JEFFERSON TRANSIT AUTHORITY

MAINTENANCE, OPERATIONS AND ADMINISTRATION CENTER

PORT TOWNSEND, WASHINGTON

VOLUME 1

GENERAL INFORMATION
CODE DOCUMENTATION
SITE DOCUMENTATION
BUILDING A
BUILDING B
BUILDING C
BUILDIND D
DETAILS (FOR ALL BUILDINGS)

BID SET

FEBRUARY 5, 2014

TCF Architecture

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JEFFERSON TRANSIT AUTHORITY

MAINTENANCE, OPERATIONS AND ADMINISTRATION CENTER

FTA PROJECT NUMBER: WA-0180-02

TCF Architecture

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902 North SecondStreet
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TCF Architecture, PLLC

PORT TOWNSEND, WASHINGTON

BID SET

FEBRUARY 5, 2014

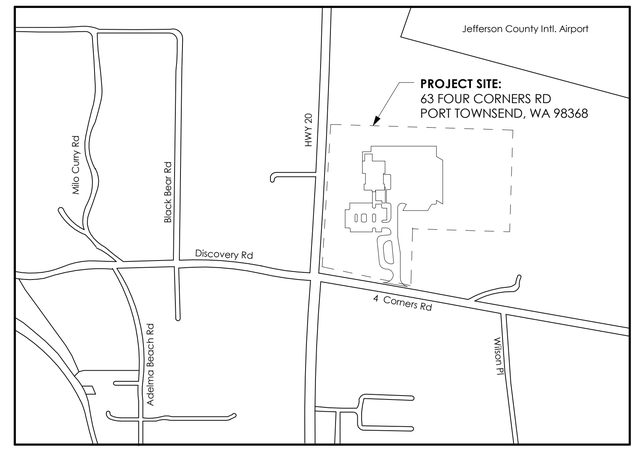
5617 REGISTERED ARCHITECT
RANDAL J. COOK
STATE OF WASHINGTON

PROJECT INFORMATION

1. **STREET ADDRESS**
   63 FOUR CORNERS RD
   PORT TOWNSEND, WASHINGTON 98368
2. **PARCEL NUMBER**
   001332009
3. **LEGAL DESCRIPTION**
   S33 T30N R1W/TAX 98/BND THRU BLA #10126
4. **TOTAL ACRES & SQUARE FOOTAGE OF LOT**
   TOTAL SITE ACREAGE: 10.63
   TOTAL SITE CONSTRUCTION ACREAGE: 3.3
5. **AREA SUMMARY**

TOTAL BUILDING AREA:	16,019 GSF
BUILDING A :	12,756 GSF
BUILDING B:	1,558 GSF
BUILDING C:	1,507 GSF
BUILDING D:	198 GSF

6. **PARKING SUMMARY**
   VISITOR / EMPLOYEE: 50
   CUTAWAYS / VAN: 22
   SMALL JTA VEHICLES: 6
   FIXED ROUTE BUSES: 20
7. **TOTAL IMPERVIOUS SURFACES**
   137,379 SQUARE FEET
8. **ZONING DESIGNATION**
   RURAL RESIDENTIAL 1:10
9. **PROJECT DESCRIPTION**
   THIS PROJECT WILL CONSTRUCT A NEW MAINTENANCE, OPERATIONS AND ADMINISTRATION BUILDING AND A FUEL CANOPY WITH THE ABILITY TO ADD A NEW BUS WASH FACILITY IN THE FUTURE.



DRIVING DIRECTIONS

FROM FORKS, WA (WEST)
TAKE HWY 101 SOUTH TOWARDS SHELTON
TAKE A LEFT ONTO HWY 20 WEST TOWARDS PORT TOWNSEND
TAKE A RIGHT ONTO FOUR CORNERS RD
THE PROJECT SITE IS ON THE LEFT

FROM TACOMA, WA (SOUTH)
TAKE HWY 16 NORTH TOWARDS POULSBO
TAKE A LEFT ONTO HWY 104 WEST THE HOOD CANAL
TAKE A RIGHT ONTO HWY 19 NORTH TOWARDS PORT TOWNSEND
TAKE A LEFT ONTO FOUR CORNERS RD
THE PROJECT SITE IS ON THE RIGHT

PROJECT DIRECTORY

OWNER
Jefferson Transit Authority

63 Four Corners Rd
Port Townsend, WA 98368
Phone: (360) 344-4605
Contact: Samantha Trone
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AHBL

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Fife, WA 98424
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Mechanical PIC: Chris Caffee, PE, Principal
Email: chris.caffee@bceengineers.com
Electrical PIC: Chuck Heaton, PE, Principal
Email: chuck.heaton@bceengineers.com

HARDWARE CONSULTANT
Adams Consulting and Estimating

2337 North 57th Street
Seattle, WA, 98103
Contact: Gordon Adams
Phone: (206) 528-0244
Fax: (206) 528-0138
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COST CONTROL CONSULTANT
Robinson Company

101 Stewart Suite 925
Seattle, WA 98101
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GEOTECHNICAL
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950 Pacific Avenue, Suite 515
Tacoma, WA 98402
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BID SET

Project Title
JEFFERSON TRANSIT AUTHORITY

63 FOUR CORNERS RD
PORT TOWNSEND, WASHINGTON 98368

Project Numbers
2013-006

FTA PROJECT NUMBER: WA-0180-02

Issue & Revision Dates

08 07 13	100% SD
11 04 13	100% DD
12 30 13	AGENCY SET
02 05 13	BID SET

Sheet Title
COVER SHEET

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E1.01	ELECTRICAL SITE PLAN
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GENERAL

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ARCHITECTURAL

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Aa2.03	BUILDING A DIMENSION PLAN
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Aa6.01	BUILDING A SECTIONS
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Aa6.11	BUILDING A WALL SECTIONS
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Aa8.01	BUILDING A INTERIOR ELEVATIONS
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Sa2.02	FOUNDATION PLAN BUILDING A
Sa3.01	MEZZANINE / CEILING FRAMING PLAN BUILDING A
Sa4.01	ROOF FRAMING PLAN BUILDING A
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Sa5.01	FOUNDATION DETAILS
Sa5.02	FOUNDATION DETAILS
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FA4.01	FIRE ALARM FIRST FLOOR AND MEZZANINE PLAN
FX0.01	FIRE PROTECTION DESIGN CRITERIA, LEGEND, AND FLOW TEST
FX0.02	FIRE PROTECTION FLOOR PLAN NOTES
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FX4.01	FIRE PROTECTION FIRST FLOOR AND MEZZANINE PLANS

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Ea0.01	BUILDING A ELECTRICAL LEGEND
Ea0.02	BUILDING A LIGHTING FIXTURE SCHEDULE
Ea0.03	MECHANICAL CONNECTION SCHEDULE
Ea2.01	BUILDING A LIGHTING PLAN
Ea3.01	BUILDING A POWER PLAN
Ea5.01	BUILDING A ELECTRICAL DETAILS
Ea5.02	BUILDING A ELECTRICAL DETAILS
Ea5.03	BUILDING A ELECTRICAL DETAILS
Ea6.00	ELECTRICAL ONE-LINE DIAGRAM
Ea6.01	PANEL SCHEDULES
Ea6.02	PANEL SCHEDULES
T0.01	TELECOMM LEGEND
Ta2.01	BUILDING A TELECOMM LEGEND
Ta5.01	BUILDING A TELECOMM DETAIL
Ta5.02	BUILDING A TELECOMM DETAIL
Ta5.03	BUILDING A TELECOMM DETAIL

BUILDING B

GENERAL

Gb1.01	COVER SHEET

ARCHITECTURAL

Ab2.01	BUILDING B FUEL CANOPY FLOOR PLAN / ROOF PLAN / SECTION

EQUIPMENT

Qb2.01	BUILDING B EQUIPMENT LAYOUT

STRUCTURAL

Sb2.02	FOUNDATION PLAN AND ROOF FRAMING PLAN BUILDING B
Sb5.01	FOUNDATION DETAILS BUILDING B

MECHANICAL

Mb2.01	BUILDING B PLUMBING PLANS

ELECTRICAL

Eb0.01	BUILDING B ELECTRICAL LEGEND & LIGHTING FIXTURE SCHEDULE
Eb2.01	BUILDING B LIGHTING PLAN
Eb3.01	BUILDING B POWER PLAN

BUILDING C

GENERAL

Gc1.01	COVER SHEET

ARCHITECTURAL

Ac2.01	BUILDING C - BUS WASH

STRUCTURAL

Sc2.01	BUS WASH

ELECTRICAL

Ec0.01	BUILDING C ELECTRICAL LEGEND & LIGHTING FIXTURE SCHEDULE
Ec2.01	BUILDING C LIGHTING PLAN
Ec3.01	BUILDING C POWER PLAN

BUILDING D

GENERAL

Gd1.01	COVER SHEET

ARCHITECTURAL

Ad2.01	BUILDING D BUS WASH EQUIPMENT

STRUCTURAL

Sd2.01	FOUNDATION PLAN AND ROOF FRAMING PLAN BUILDING D
Sd5.01	FOUNDATION DETAILS BUILDING D
Sd7.01	ROOF DETAILS BUILDING D

MECHANICAL

Md1.01	WASH EQUIPMENT BUILDING

ELECTRICAL

Ed0.01	BUILDING D ELECTRICAL PLANS

DETAILS

GENERAL

Gds1.01	DETAIL COVER SHEET

ARCHITECTURAL

A10.00	SITE DETAILS
A10.01	SITE DETAILS
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A21.00	FLOOR TYPES
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A30.00	EXTERIOR WALL TYPES
A31.00	EXTERIOR WALL DETAILS
A31.01	EXTERIOR WALL DETAILS
A32.00	INTERIOR WALL TYPES
A33.00	INTERIOR WALL DETAILS
A36.01	MISC. EXTERIOR DETAILS
A36.02	MISC. EXTERIOR DETAILS
A40.00	ROOF TYPES
A40.01	ROOF DETAILS
A40.02	ROOF DETAILS
A42.01	CEILING DETAILS
A42.02	CEILING DETAILS (ADDITIVE ALTERNATE AA-2)
A60.00	LOUVER, DOOR, FRAME AND GLAZING NOTES
A60.01	LOUVER SCHEDULE
A60.02	LOUVER FRAME DETAILS
A60.03	LOUVER FRAME DETAILS
A61.00	DOOR TYPES
A61.01	DOOR SCHEDULES
A62.00	INTERIOR HOLLOW METAL FRAME DETAILS
A62.01	INTERIOR ALUMINUM FRAME AND POCKET DOOR DETAILS
A63.00	INTERIOR FRAMES AND SCHEDULES
A64.00	EXTERIOR FRAMES AND SCHEDULES
A64.01	EXTERIOR FRAMES AND SCHEDULES
A64.02	EXTERIOR FRAMES AND SCHEDULES
A65.00	EXTERIOR ALUMINUM FRAME DETAILS
A65.01	EXTERIOR ALUMINUM FRAME DETAILS
A65.02	EXTERIOR ALUMINUM FRAME DETAILS
A65.03	EXTERIOR ALUMINUM FRAME DETAILS
A65.04	EXTERIOR ALUMINUM FRAME DETAILS ADDITIVE ALTERNATE (AA-3)
A65.05	EXTERIOR HOLLOW METAL FRAME DETAILS
A65.06	OVERHEAD SECTIONAL DOOR FRAME DETAILS
A66.00	MISC OPENING DETAILS
A70.00	INTERIOR FINISH SCHEDULE
A70.01	COLOR AND MATERIAL SCHEDULE
A71.01	INTERIOR DETAILS
A72.00	SIGNAGE SCHEDULE
A73.00	SIGNAGE TYPES AND DETAILS
A73.01	SIGNAGE TYPES AND DETAILS
A80.00	CASEWORK GENERAL NOTES AND TYPICAL DETAILS
A80.01	CASEWORK SCHEDULE
A81.01	CASEWORK DETAIL
A81.02	CASEWORK DETAILS

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Issue & Revision Dates

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SYMBOLS

EXT/INT ELEVATION REFERENCE
- ELEVATION NUMBER
- SHEET NUMBER (A8.01)

BUILDING SECTION REFERENCE
- SECTION NUMBER (SIM)
- SHEET NUMBER (A101)

ROOM NUMBER REFERENCE
- ROOM NAME (Room name)
- ROOM NUMBER (101)

DOOR NUMBER REFERENCE
- DOOR DESIGNATION (GENERALLY CORRESPONDS TO ROOM NUMBER WHERE DOOR OCCURS) (101)
- DOOR SUFFIX

WINDOW NUMBER REFERENCE
- WINDOW TYPE (AA)
- WINDOW NUMBER (1)

DETAIL REFERENCE
- DETAIL LETTER (SIM)
- DETAIL NUMBER (A101)
- Ref (A101)

CABINET REFERENCE
- CABINET DESIGNATION A8.XX INTERIOR ELEVATIONS (B1)

WALL TYPE REFERENCES
- NOTES
- WALL TYPE DESIGNATION (6S/M1)
- FIRE RATING (1HR)

SIGN REFERENCE
- SIGN TYPE (A)
- SIGN NUMBER

CEILING NUMBER REFERNCE
- CEILING NUMBER (1)
- CEILING HEIGHT (10'-0")

GRID LINE REFERENCE
- LETTER OR NUMBER DESIGNATION

REFERENCE POINT/ DIM POINT
OR
MATCH LINE
CENTERLINE
DIMENSION LINE
NORTH ARROW

LOUVER NUMBER REFERNCE
- LOUVER TYPE (L1)
- LOUVER NUMBER

PLAN
- CONCRETE WALL
- MASONRY WALL
- METAL BUILDING GIRT / METAL STUD WALL

SECTION
- CONCRETE
- FINISH WOOD
- WOOD MEMBER CONTINUOUS
- WOOD MEMBER NON-CONTINUOUS
- GYPSUM WALL BOARD
- CRUSHED ROCK, GRAVEL OR PEA GRAVEL, AS NOTED
- PLYWOOD
- SUBSURFACE, SEE SPECIFICATIONS
- RIGID INSULATION / SPRAY FOAM INSULATION
- SAND, CMU GROUT
- BATT INSULATION, LOOSE FILL OR BLANKET INSULATION
- STEEL
- MEDIUM DENSITY FIBERBOARD
- CMU
- MEDIUM DENSITY OVERLAY
- ACOUSTIC CEILING PANEL

ABBREVIATIONS

(SEE FINISH SCHEDULE FOR ADDITIONAL ABBREVIATIONS RELATED TO FINISHES)

@	At
&	And
A/C	Air Conditioning
A/V	Audio/Video
AB	Anchor Bolt
AC	Asphalt Concrete
ACP	Acoustical Ceiling Panels
ACT	Acoustical Ceiling Tile
ACL	Acoustical
AD	Above Datum
ADA	Americans with Disabilities Act
ADD	Additive
ADD'L	Additional
ADJ	Adjustable
ADM	Addendum
ADMIN	Administration or Administrative
AFF	Above Finish Floor
AL	Aluminum
ALT	Alternate
ALUM	Aluminum
ANOD	Anodized
AP	Access Panel
APRX	Approximate
ARCH	Architect (ural)
ASPH	Asphalt
ASST	Assistant
ASSY	Assembly
AUTO	Automatic
AWP	Acoustical Wall Panel
B	Bottom
BD	Board
BEL	Below
BLDG	Building
BLK	Block
BLKG	Blocking
BLT	Built
BLKG	Blocking
BM	Beam
B.O.	Bottom Of
STRUCT	Bottom Of Structure
BOT	Bottom
BPL	Base Plate
BRG	Bearing
BRK	Brick
BS	Back Splash
BTWN	Between
C	Channel or Camera
CABT	Cabinet
CB	Catch Basin
C/C	Center to Center
CEM	Cement
CH	Coat Hook
CIP	Cast-In-Place
CIPC	Cast-in-Place Concrete
CJ	Control Joint
C/L	Centerline
CLG	Ceiling
CLOS	Closet
CLR	Clear
CMU	Concrete Masonry Unit
CO	Cleanout
COJ	Construction Joint
COL	Column
COMP	Composition or Composite
CONC	Concrete
COND	Condition
CONF	Conference
CONST	Construction
CONT	Continuous
CONTR	Contract(or)
COORD	Coordinate
CORR	Corridor
CPT	Carpet
CT	Ceramic Tile
CTR	Center or Counter
CW	Curtain Wall
CWT	Ceramic Wall Tile
CTW	Ceramic Tile Wainscot
DBL	Double
DEG	Degree
DEMO	Demolition
DET	Detail
DF	Drinking Fountain
DIAG	Diagonal
DIAM	Diameter
DIM	Dimension
DISP	Dispenser
DL	Dead Load
DMPR	Damp-proofing
DMT	Demountable
DN	Down
DR	Door
DS	Downspout/Door Swing
DW	Dishwasher
DWG	Drawing
DWR	Drawer
E	East
EA	Each
EB	Expansion Bolt
EC	Electrical Contractor
EJ	Expansion Joint
EL	Elevation
ELEC	Electrical
ELEV	Elevation or Elevator
EMER	Emergency
ENCL	Enclosure
EQFL	Edge of Flange
EP	Electrical Panel
EPS	Expanded Polystyrene
EQ	Equal
EQP	Equipment
ES	Each Side
ETC	Et Cetera
EW	Each Way
EXEC	Executive
EXH	Exhaust
EXIST	Existing
EXP	Exposed
EXPN	Expansion
EXT	Exterior
EXTN	Extinguisher
F	Fire Alarm Pull Station
FA	Fire Alarm Horn
FAP	Fire Alarm Panel
FCMU	Face of Concrete Masonry Unit
FD	Floor Drain
FE	Fire Extinguisher
FEB	Fire Extinguisher Bracket
FEC	Fire Extinguisher Cabinet
FF	Factory Finish
FGWB	Face of Gypsum Wallboard
FH	Fire Hydrant or Flat Head
FIN	Finish
FIO	Furnish & Installed by Owner
FIX	Fixture
FLEX	Flexible
FLR	Floor
FLSH	Flash or Flashing
FM	Floor Mat and Frame
FND	Foundation
FO	Face of
FOC	Face of Concrete
FOCL	Face of Column
FOF	Face of Finish
FOIC	Furnished by Owner; Installed by Contractor
FOS	Face of Stud
FOSH	Face of Sheathing
FRP	Fiberglass Reinforced Panels
FS	Foreshortened
FT	Feet or Foot
FTG	Footing
FUR	Furred or Furring
GA	Gauge
GB	Grab Bar
GALV	Galvanized
GEJ	Gutter Expansion Joint
GL	Glass
GWB	Gypsum Wall Board
H	Height
HBD	Hardboard
HC/	
HDCP	Handicap(ped)
HDO	High Density Overlay
HDR	Header
HDW	Hardware
HGT	Height
HM	Hollow Metal
HMP	Horizontal Metal Panel
HORZ	Horizontal
HP	High Point
HPC	High Performance Coating
HR	Hour
HSS	Hollow Structural Section
HT	Height
HVAC	Heating/Ventilating/Air Conditioning
HWH	Hot Water Heater
H20	Water
ID	Inside Diameter
INCL	Including
INSUL	Insulation
INT	Interior
INV	Invert
ISO	Isometric
JAN	Janitor
JT	Joint
KEC	Kitchen Equip. Sub-Contractor
KIT	Kitchen
KO	Knockout
KP	Kickplate
KS	Knee Space
KSI	Kips per Square Inch
L	Length of Span or Structural Angle
LAB	Laboratory
LAV	Lavatory
LB	Pound or Lag Bolt
LBL	Label
LBS	Pounds
LE	Latex Enamel
LF	Linear Foot
LH	Left Hand
LL	Live Load
LLV	Long Leg Vertical
LOC	Location
LP	Light Proof, Low Point or Light Pole
LT	Light
LTWT	Light Weight
LVR	Louver
MACH	Machine
MAN	Manual
MANUF	Manufactured
MAT	Material
MAX	Maximum
MB	Machine Bolt
MBR	Member
MDF	Medium Density Fiberboard
MDO	Medium Density Overlay
M/E	Mechanical/ Electrical
MEAS	Measure
MECH	Mechanical
MED	Medium
MEMB	Membrane
M/E/P	Mechanical/Electrical/Plumbing
MFR	Manufacturing
MFR	Manufacturer
MH	Manhole
MHO	Magnetic Hold Open
MIN	Minimum
MISC	Miscellaneous
MO	Masonry Opening
MOD	Modular
MOV	Movable
MTD	Mounted
MTG	Mounting
MTL	Metal
MULL	Mullion
MWK	Millwork
N	North
N/A	Not Applicable
NIC	Not In Contract
NO	Number
NOM	Nominal
NTS	Not to Scale
O/	Over
O/R	Oven/Range
OA	Overall
OC	On Center
OD	Overflow Drain or Outside
OFF	Office
OH	Overhead
OPG	Opening
OPH	Opposite Hand
OPP	Opposite
OS	Outside
PAV	Paving
PAR	Parallel
PART	Partition or Partial
PCC	Precast Concrete
PERF	Perforated
PERIM	Perimeter
PJ	Panel Joint
PKG	Parking or Package
PL	Property Line or Panel
PLAM	Plastic Laminate
PLAS	Plastic
PLY	Plywood
PR	Pair
PREC	Precast
PREFIN	Pre-finished
PROJ	Project
PSF	Pounds/Square Foot
PSI	Pounds/Square Inch
PT	Paint(ed) or Point
PTD	Paper Towel Dispenser
PTRT	Pressure Treated
PW	Plywood
QTY	Quantity
R	Radius or Riser
RA	Return Air
RB	Rubber Base
RC	Resilient Channel
RCP	Reflected Ceiling Plan
RD	Roof Drain
REF	Refrigerator
REINF	Reinforcing
REL	Relocate
REQ'D	Required
REQ'S	Requirements
RESIL	Resilient
RETG	Retaining
RFG	Roofing
RH	Right Hand
RECEPT	Reception
RECPT	Receptacle
RECT	Rectangular
REF	Reference
REFL	Reflected
REFR	Refrigerator
RL	Rain Leader
RM	Room
RO	Rough Opening
ROW	Right-of-Way
S	South
SB	Splash Block
SC	Solid Core
SCH	Schedule
SCHED	Schedule
SD	Soap Dispenser or Storm Drain
SF	Store Front
SECT	Section
SHLVS	Shelves
SHT	Sheet
SHTHG	Sheathing
SIM	Similar
SM	Sheet Metal
SND	Sanitary Napkin Disposal
SOG	Slab on Grade
SPECD	Specified
SPECS	Specifications
SQ	Square
SS	Stainless Steel
SSD	See Structural Drawings
ST	Stain
STD	Standard
STG	Storage
STL	Steel
STRUCT	Structural
SUSP	Suspended
SV	Sheet Vinyl
SVC	Sheet Vinyl Cove
SW	Shear Wall
SYM	Symmetrical/Symmetry
SY	System Tread or Top
TC	Top of Curb
TEL	Telephone
T&G	Tongue and Groove
THK	Thick
T.O.	Top of
TOA	Top of Accessory
TOB	Top of Beam
TOC	Top of Concrete or Top of Column
TOF	Top of Fixture
TOP	Top of Parapet
TOPL	Top of Plate
TOR	Top of Rim
TOS	Top of Slab or Top of Steel
TOST	Top of Seat
TOW	Top of Wall
TP	Top of Pavement
TPD	Toilet Paper Dispenser
TRANSP	Transparent
TSCD	Toilet Seat Cover Dispenser
TYP	Typical
UNF	Unfinished
UNO	Unless Noted Otherwise
UON	Unless Otherwise Noted
UR	Urinal
VB	Vapor Barrier
VCT	Vinyl Composition Tile
VERT	Vertical
VEST	Vestibule
VIF	Verify in Field
VMP	Vertical Metal Panel
VOL	Volume
VWC	Vinyl Wall Covering
W	West
W	Width
W/	With
W/D	Washer/Dryer
WB	Wood Base
WC	Water Closet
WD	Wood
WDW	Window
WF	Wide Flange
WGT	Weight
W/O	Without
WP	Waterproof
WR	Water Resistant
WSCT	Wainscot
WT	Weight
WWF	Welded Wire Fabric

GENERAL NOTES

A. GENERAL REQUIREMENTS: IT SHALL BE THE SPECIFIC DUTY AND RESPONSIBILITY OF EACH TRADE AND SUPPLIER TO EXAMINE ALL DRAWINGS, DETAILS AND SPECIFICATIONS, ALL DISCIPLINES AND TO PROVIDE AND FURNISH PROPER EQUIPMENT, HARDWARE, FIXTURES, MATERIALS, LABOR, ETC., PERTAINING TO THEIR PART OF THE WORK SHOWN OR LISTED IN ANY PART OF THE CONTRACT DOCUMENTS. SCHEDULES ARE FOR THE CONVENIENCE OF THE CONTRACTOR TO ASSIST THEM IN UNDERSTANDING AND CONSTRUCTING THE PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT ALL ITEMS IN THE SCHEDULES REFLECT THE PLANS AND DETAILS. ANY OMISSIONS OR CONTRADICTIONS IN THESE DOCUMENTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT PRIOR TO BID OPENING. BIDS RECEIVED SHALL BE CONSIDERED TO INCLUDE ALL ITEMS SHOWN AND/OR SPECIFIED OR SCHEDULED FOR A COMPLETE PROJECT.

B. CONFLICTING INFORMATION: IN THE EVENT OF CONFLICTING INFORMATION WITHIN THE DOCUMENTS, IMMEDIATELY CONTACT THE ARCHITECT FOR CLARIFICATION, PROCEEDING WITHOUT SUCH CLARIFICATION IS AT THE CONTRACTORS RISK AND COST.

C. SCALING DRAWINGS: DO NOT SCALE DRAWINGS; CONTACT ARCHITECT FOR ANY MISSING OR INACCURATE DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK.

D. WALL TYPES: SEE FLOOR PLANS, BUILDING AND WALL SECTIONS FOR WALL TYPE CALLOUTS. SEE A30 SERIES SHEETS FOR EXTERIOR WALL TYPE DESCRIPTIONS AND A32 SERIES SHEETS FOR INTERIOR WALL TYPE DESCRIPTIONS.

E. FINISH AND COLOR SCHEDULES: SEE A70 SERIES SHEETS.

F. SIGNAGE SCHEDULE AND DETAILS: SEE A72 AND A73 SERIES SHEETS.

G. DRAWINGS AND SCHEDULES FORMAT: (SEE INDEX ON 'G' SERIES SHEETS)

1. VOLUME 1 - SITE, BUILDINGS A -C (DRAWINGS ARE GROUPED BY BUILDING), DETAILS
   - a. G SERIES: COVER SHEET, SHEET INDEX, GENERAL NOTES, ABBREVIATIONS, SYMBOLS, TYPICAL MOUNTING HEIGHTS, CODE SHEETS
   - b. SURVEY
   - c. CIVIL (C)
   - d. LANDSCAPE (L)
   - e. ARCHITECTURAL (A) (x=BUILDING LETTER)
     - 1. SERIES A1: ARCHITECTURAL SITE PLAN
   - f. ELECTRICAL (E)
   - g. ARCHITECTURAL (A) (x=BUILDING LETTER)
     - 1. SERIES Ax2: ARCHITECTURAL FLOOR PLANS (INCLUDING REFERENCE & ENLARGED FLOOR PLANS)
     - 3. SERIES Ax3: ROOF PLAN
     - 4. SERIES Ax4: REFLECTED CEILING PLANS
     - 5. SERIES Ax5: EXTERIOR ELEVATIONS
     - 6. SERIES Ax6: BUILDING AND WALL SECTIONS
     - 7. SERIES Ax7: VERTICAL CIRCULATION PLANS AND SECTIONS (WHERE APPLICABLE)
     - 8. SERIES Ax8: INTERIOR ELEVATIONS
   - h. EQUIPMENT (Q)
   - i. STRUCTURAL (S)
   - j. MECHANICAL (M)
   - k. PLUMBING (P)
   - l. ELECTRICAL (E)
   - m. SERIES A10: SITE DETAILS
   - n. SERIES A20: FOUNDATION AND FLOOR TYPES AND DETAILS
   - o. SERIES A30: WALL TYPES AND DETAILS
   - p. SERIES A40: ROOF TYPES AND DETAILS AND CEILING DETAILS
   - q. SERIES A50: STAIR & LANDING TYPES AND VERTICAL CIRCULATION DETAILS
   - r. SERIES A60: OPENING SCHEDULES, TYPES AND DETAILS
   - s. SERIES A70: FINISH SCHEDULE, COLOR SCHEDULE, SIGNAGE SCHEDULE & DETAILS AND INTERIOR DETAILS
   - t. SERIES A80: CASEWORK TYPES AND DETAILS

I. HAZARDOUS MATERIALS:
1. ALL PRODUCTS AND MATERIALS USED IN THIS PROJECT MUST BE CERTIFIED AS BEING "ASBESTOS FREE," NO EXCEPTIONS.
2. NO PRODUCTS CONTAINING PCB OR OTHER HAZARDOUS MATERIALS SHALL BE USED ON THIS PROJECT, NO EXCEPTIONS.
3. NO PRODUCTS CONTAINING LEAD SHALL BE USED ON THIS PROJECT WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT AND OWNER.

J. FOOTING DRAIN SYSTEM: PROVIDE CONTINUOUS PERFORATED FOOTING DRAIN AT ENTIRE PERIMETER OF ALL BUILDINGS. CONNECT FOOTING DRAINS DRAWINGS TO STORM SEWER SYSTEM AS INDICATED ON THE CIVIL DRAWINGS. SEE CIVIL SITE PLANS FOR EXTENT AND REQUIREMENTS. ALSO SEE WALL SECTIONS AND SPECIFICATIONS.

K. DOWN SPOUTS: THE GENERAL CONTRACTOR SHALL COORDINATE ALL DOWNSPOUT LOCATIONS AND CONNECTIONS TO TIGHTLINES AND STORM DRAINAGE SYSTEM(S) (ALSO SEE NOTE ABOVE). THE ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS ILLUSTRATE AND DIMENSION DOWNSPOUT LOCATIONS AND SHALL TAKE PRECEDENCE. ALSO SEE CIVIL DRAWINGS AND SPECIFICATIONS. COORDINATE ALL REQUIRED FOUNDATION BLOCK-OUTS WITH STRUCTURAL AND CIVIL DRAWINGS.

M. FINISH LUMBER SIZES: THE LUMBER SIZES SHOWN FOR WOOD BLOCKING, BACKING, ETC., WILL NOT BE ACTUAL SIZES BUT NOMINAL SIZES. FINISHED TRIM CALLOUTS WILL BE A "NET" DRESSED SIZE, TYP. UNLESS NOTED OTHERWISE.

N. INSULATION SYSTEMS: THERMAL INSULATION IS INTENDED TO PROVIDE A CONTINUOUS INSULATED BUILDING ENVELOPE, AND SHALL BE INSTALLED AS SUCH. SOUND INSULATION IS INTENDED TO PROVIDE A CONTINUOUS ROOM ENVELOPE, AND SHALL BE INSTALLED AS SUCH. IN BOTH CASES, FILL ALL VOIDS IN ASSEMBLIES WITH INSULATION TO PROVIDE A COMPLETE, THOROUGHLY INSULATED ASSEMBLY.

O. VAPOR RETARDER (BARRIER): CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE VAPOR RETARDER (BARRIER) MEMBRANE AT FLOOR SLAB, WALLS, AND ROOF. BACKER ROD, SEALANT, AND OTHER APPROVED MEANS SHALL BE APPLIED CONTINUOUSLY AROUND ALL EXTERIOR DOOR AND WINDOW OPENINGS AND OTHER AREAS OF POTENTIAL AIR INFILTRATION, INCLUDING STRUCTURAL, MECHANICAL, AND ELECTRICAL PENETRATIONS. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO VAPOR RETARDERS (BARRIERS), OR REPLACE THEM PRIOR TO COVER, AS APPROVED. CONTRACTOR SHALL EXERCISE CARE DURING THE INSTALLATION OF THE VAPOR BARRIER TO PROVIDE SPECIFIED OVERLAP BETWEEN INDIVIDUAL SHEETS AND SHALL TAPE ALL JOINTS. SHOULD THE MATERIAL BE TORN OR PUNCTURED, PATCH BY ADDITION OF MATERIAL OVER AFFECTED AREA WITH AT LEAST 12" COVERAGE BEYOND DAMAGE, AND TAPE ALL JOINTS. ALSO SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

P. SIGNAGE: COORDINATE LOCATION OF SIGNS WITH SITE PLAN (ARCHITECTURAL AND CIVIL), INTERIOR AND EXTERIOR ELEVATIONS AND FLOOR PLANS. CONTACT ARCHITECT FOR CLARIFICATION OF ANY CONFLICTING REQUIREMENTS PRIOR TO COMMENCEMENT SIGNAGE INSTALLATION.

Q. WALL OPENINGS: COORDINATE WALL OPENING REQUIREMENTS FOR MECHANICAL DUCTS, PIPES, ETC. AND FOR ELECTRICAL CONDUIT WITH MECHANICAL AND ELECTRICAL DRAWINGS AND PROVIDE AS NEEDED. OPENINGS SHALL BE SIZED ONLY AS NEEDED FOR THESE PENETRATIONS AND SHALL BE SEALED AT EDGES FOR SOUND CONTROL AND FIRE-STOPPED PER SPECIFICATIONS AND BUILDING CODE REQUIREMENTS WHERE REQUIRED, TYP.

R. DEVICE COORDINATION: ARCHITECTURAL DRAWINGS DO NOT ILLUSTRATE ALL MECHANICAL AND ELECTRICAL ITEMS AND DEVICES. ITEMS AND DEVICES WHICH ARE SHOWN ARE FOR COORDINATION AND LOCATING PURPOSES. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. LACK OF ILLUSTRATION OF DEVICES AND/OR BUILDING ELEMENTS ON ARCHITECTURAL DRAWINGS DOES NOT EXCLUDE SUCH WORK FROM BID. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS FOR CLARIFICATION. DO NOT PROCEED WITH WORK WITHOUT CLARIFICATION.

S. FIRE SPRINKLER SYSTEM: SPRINKLER PIPES, DRAIN VALVES AND OTHER COMPONENTS OF THE SYSTEM (EXCEPT HEAD) SHALL NOT BE EXPOSED TO VIEW EXCEPT IN MECHANICAL ROOMS, ELECTRICAL ROOMS, CUSTODIAN ROOMS, ROOMS WITH EXPOSED STRUCTURE AND ATTICS, UNLESS NOTED OTHERWISE. PROVIDE ACCESS PANELS/DOORS FOR FIRE SPRINKLER SYSTEM ACCESS WHERE SPRINKLER HEADS, DRAIN VALVES, INSPECTORS, TESTS, ETC. ARE INACCESSIBLE WITHOUT DEMOLITION OF BUILDING ELEMENTS. PANELS SHALL BE OF A FUNCTIONAL SIZE FOR APPLICATION, MEET ALL CODE REQUIREMENTS AND GENERAL CONTRACTOR SHALL COORDINATE WITH THE FIRE SPRINKLER SYSTEM DESIGNER (BIDDER / DESIGN) TO ASSURE ALL SUCH PANELS AND INSTALLATION COSTS ARE INCLUDED IN THE BID. ALL PANELS EXPOSED TO VIEW FROM OCCUPIED SPACES SHALL BE OF A FLUSH DESIGN. PAINTED TO MATCH ADJACENT SURFACES AND FIRE RATED WHERE REQUIRED BY CODE. FIRE SPRINKLER SUB-CONTRACTOR SHALL PROVIDE DRAWINGS CLEARLY INDICATING PROPOSED LOCATIONS OF EXPOSED PIPES, SPRINKLER HEADS AND ACCESS PANELS FOR THE ARCHITECT'S REVIEW AND APPROVAL. SHOULD THE ARCHITECT NOT APPROVE OF PROPOSED LOCATIONS, CONTRACTOR AND SPRINKLER SYSTEM DESIGNER SHALL ENDEAVOR TO WORK WITH THE ARCHITECT TO FIND ACCEPTABLE LOCATIONS. SUCH CHANGES SHALL BE INCLUDED IN THE BID COSTS.

T. BUILDING IS TO COMPLY WITH WHOLE BUILDING PRESSURE TEST AS REQUIRED IN 2012 WSEC.

ADDITIVE ALTERNATE LIST

ADDITIVE ALTERNATE (AA-1) - ADD CONCRETE TO EMPLOYEE / VISITOR PARKING (SEE CIVIL DRAWINGS)
ADDITIVE ALTERNATE (AA-2) - REPLACE ACT WITH LINEAR WOOD CEILING IN SELECT LOCATIONS (SEE ARCHITECTURAL DRAWINGS)
ADDITIVE ALTERNATE (AA-3) - ADD SKYLIGHTS (SEE ARCHITECTURAL DRAWINGS)
ADDITIVE ALTERNATE (AA-4) - REPLACE PLASTIC LAMINATE ON WALLS AND POLISHED CONCRETE FLOORS WITH CERAMIC TILE IN SELECT LOCATIONS (SEE ARCHITECTURAL DRAWINGS)
ADDITIVE ALTERNATE (AA-5) - ADD STONE WALL AND SITE FURNITURE (SEE LANDSCAPE DRAWINGS)

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5617 REGISTERED ARCHITECT
RANDAL J. COOK
STATE OF WASHINGTON

BID SET

Project Title
JEFFERSON TRANSIT AUTHORITY

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PORT TOWNSEND, WASHINGTON 98368

Project Numbers
2013-006

FTA PROJECT NUMBER: WA-0180-02

Issue & Revision Dates

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11 04 13	100% DD
12 30 13	AGENCY SET
02 05 13	BID SET

Sheet Title
ABBREVIATIONS SYMBOLS AND GENERAL NOTES

Drawn By MR
Checked By MH

Sheet Number
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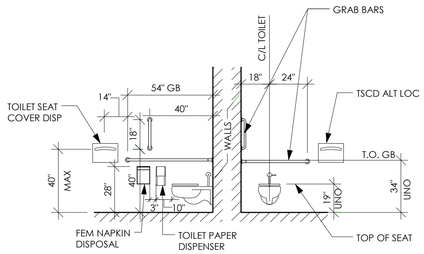
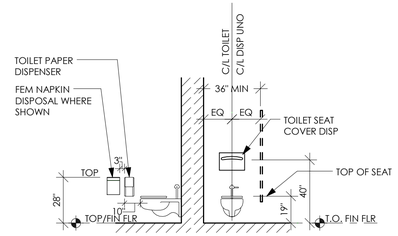
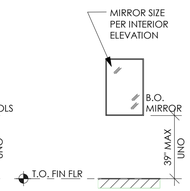


ADA WATER CLOSET

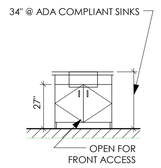


STANDARD WATER CLOSET

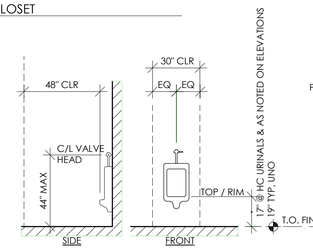
HAND DRYER



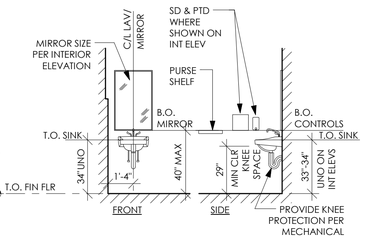
MIRROR



ADA SINK IN CABINET
PROVIDE KNEE PROTECTION FOR MECHANICAL

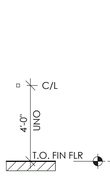


ADA WALL-HUNG URINAL

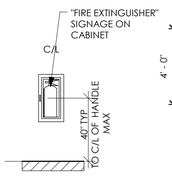


ADA LAVATORY & MIRROR

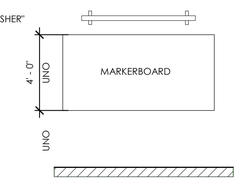
NOTE: 40" TO DISPENSING UNITS IS TYPICALLY TO THE OPERATING POINT PER ANSI 117.1-2009



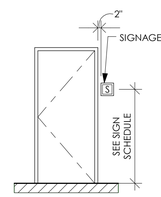
ROBE/ COAT HOOK



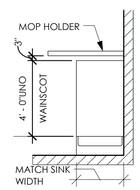
FIRE EXTINGUISHER



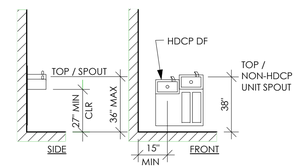
MARKERBOARD, TACKBOARD & PROJECTION SCREENS



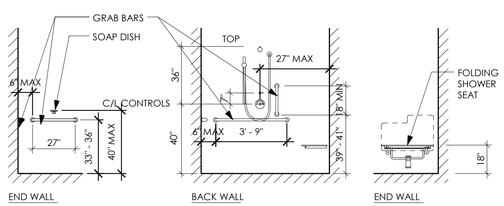
ROOM SIGNAGE



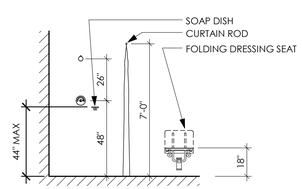
FLOOR SINK (MOP SINK)



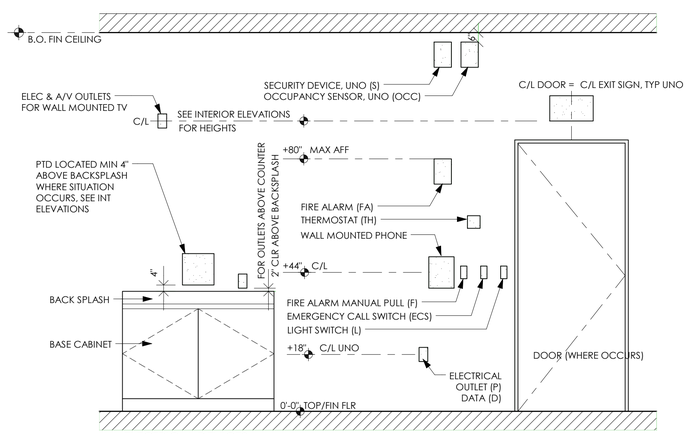
ADA DRINKING FOUNTAIN



ADA SHOWER STALL



TYPICAL SHOWER/ DRESSING ROOM



ELECTRICAL DEVICES

NOTE: DIMENSIONS SHOWN SHALL BE SUPERSEDED BY DIMENSIONS SHOWN ON INTERIOR ELEVATIONS

TYPICAL MOUNTING HEIGHTS AND LOCATIONS

A. HANDICAPPED ACCESSIBILITY: ALL FIXTURES AND ACCESSORIES INDICATED TO BE ADA COMPLIANT OR HANDICAPPED ACCESSIBLE SHALL FULLY COMPLY WITH ACCESSIBILITY, HANDICAPPED OR DISABLED CODE REQUIREMENTS OF THE LOCAL JURISDICTION, ANSI 117.1-2009 AND THE ADA (AMERICANS WITH DISABILITIES ACT). ANY CONFLICTS IN THESE DRAWINGS OR BETWEEN CODES AND THE ADA SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY FOR CLARIFICATION, PRIOR TO PROCEEDING WITH INSTALLATION.

B. SPECIFIC ITEM MOUNTING HEIGHTS: SEE THE INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF SPECIFIC ITEMS. MOUNTING HEIGHTS MAY VARY FROM STANDARD MOUNTING HEIGHTS SHOWN HEREIN. MOUNTING HEIGHTS SHOWN ON THE INTERIOR ELEVATIONS SHALL SUPERSEDE THOSE ON THE TYPICAL MOUNTING HEIGHTS SHEET.

C. ITEM PLACEMENT: GENERAL CONTRACTOR SHALL COORDINATE WITH ALL SUBCONTRACTORS TO ASSURE ALL FIXTURES AND ACCESSORIES ARE ACCURATELY PLACED. IT IS THE INTENT OF THESE DOCUMENTS TO HAVE ALL FIXTURES AND ACCESSORIES PLACED WITHIN VERY CLOSE TOLERANCES TO THE LOCATIONS AND DIMENSIONS INDICATED. FLOOR SLOPES AND FINISHES SHALL BE TAKEN INTO ACCOUNT WHEN LOCATING FIXTURES AND ACCESSORIES.

D. BACKING: GENERAL CONTRACTOR TO PROVIDE BACKING FOR ALL WALL AND CEILING MOUNTED ITEMS INCLUDING NIC, FOIC, FIO AND FUTURE ITEMS FOR ALL WALLS AS A PART OF THE BASE BID. INSTALL BACKING PER MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED BY THE CONTRACT DOCUMENTS. SOLICIT INFORMATION FROM OWNER OR ARCHITECT WHERE NEEDED. SEE SPECIFICATIONS AND STRUCTURAL DRAWINGS FOR MORE INFORMATION.

E. NIC, FOIC, FIO AND FUTURE WORK: SEE THE FLOOR PLANS, INTERIOR ELEVATIONS AND SPECIFICATIONS FOR INDICATION OF ITEMS NIC (NOT IN CONTRACT), FOIC (FURNISHED BY OWNER, INSTALLED BY CONTRACTOR), FIO (FURNISHED AND INSTALLED BY OWNER), FUTURE, ETC.

F. DIMENSIONS FOR MOUNTING HEIGHTS: **DIMENSIONS GIVEN FOR TYPICAL MOUNTING HEIGHTS AND LOCATIONS ARE TO FINISH SURFACES.** CONTRACTOR SHALL CAREFULLY COORDINATE ROUGH-IN LOCATIONS TO ACCOUNT FOR FINISH AND WALLBOARD THICKNESS.

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BID SET

Project Title
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Project Numbers
2013-006

FTA PROJECT NUMBER: WA-0180-02

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Sheet Title
TYPICAL MOUNTING HEIGHTS

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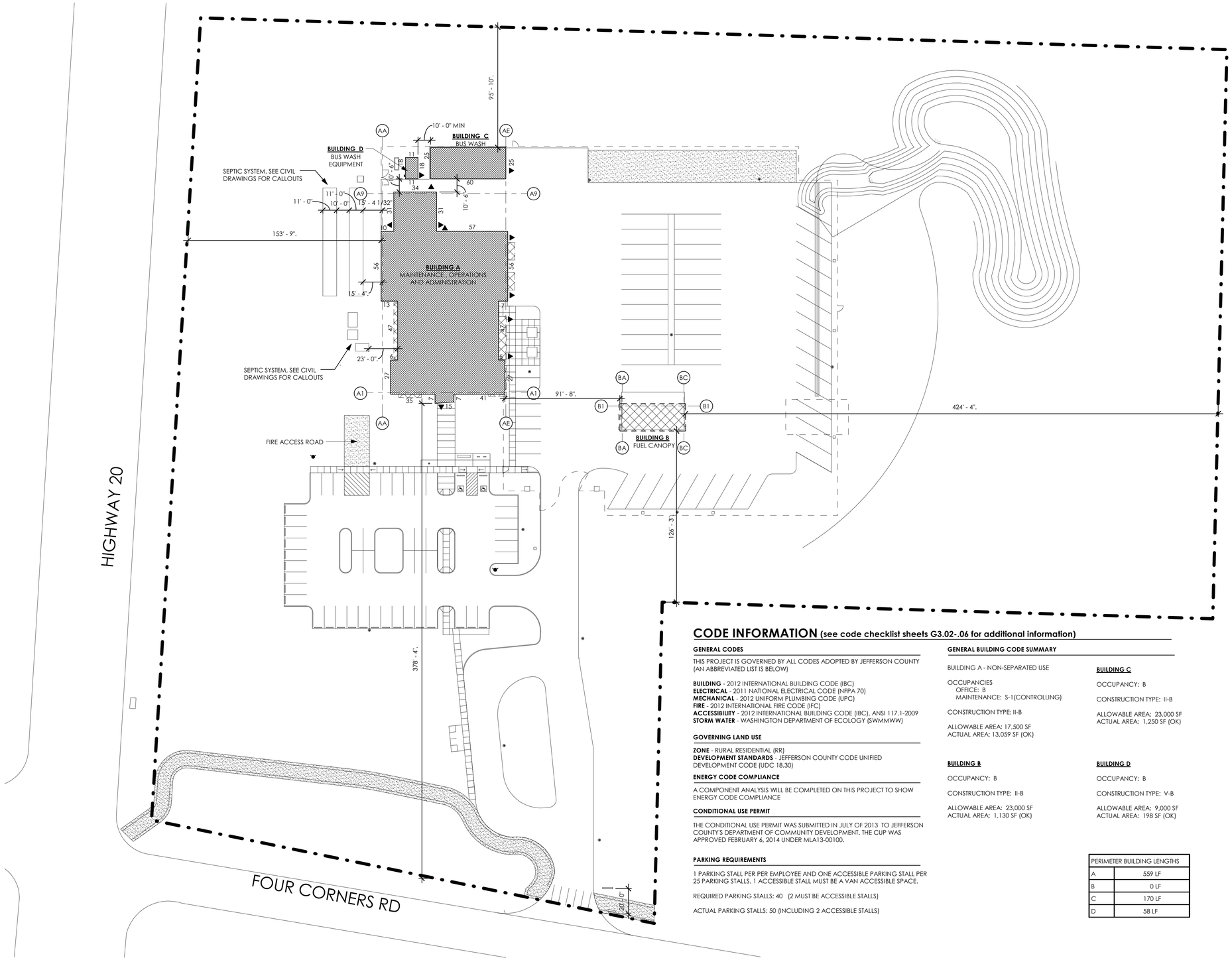

CODE INFORMATION (see code checklist sheets G3.02-.06 for additional information)

GENERAL CODES

THIS PROJECT IS GOVERNED BY ALL CODES ADOPTED BY JEFFERSON COUNTY (AN ABBREVIATED LIST IS BELOW)

BUILDING - 2012 INTERNATIONAL BUILDING CODE (IBC)
ELECTRICAL - 2011 NATIONAL ELECTRICAL CODE (NFPA 70)
MECHANICAL - 2012 UNIFORM PLUMBING CODE (UPC)
FIRE - 2012 INTERNATIONAL FIRE CODE (IFC)
ACCESSIBILITY - 2012 INTERNATIONAL BUILDING CODE (IBC), ANSI 117.1-2009
STORM WATER - WASHINGTON DEPARTMENT OF ECOLOGY (SWMMWW)

GOVERNING LAND USE

ZONE - RURAL RESIDENTIAL (RR)
DEVELOPMENT STANDARDS - JEFFERSON COUNTY CODE UNIFIED DEVELOPMENT CODE (UDC 18.30)

ENERGY CODE COMPLIANCE

A COMPONENT ANALYSIS WILL BE COMPLETED ON THIS PROJECT TO SHOW ENERGY CODE COMPLIANCE

CONDITIONAL USE PERMIT

THE CONDITIONAL USE PERMIT WAS SUBMITTED IN JULY OF 2013 TO JEFFERSON COUNTY'S DEPARTMENT OF COMMUNITY DEVELOPMENT. THE CUP WAS APPROVED FEBRUARY 6, 2014 UNDER MLA13-00100.

PARKING REQUIREMENTS

1 PARKING STALL PER PER EMPLOYEE AND ONE ACCESSIBLE PARKING STALL PER 25 PARKING STALLS. 1 ACCESSIBLE STALL MUST BE A VAN ACCESSIBLE SPACE.

REQUIRED PARKING STALLS: 40 (2 MUST BE ACCESSIBLE STALLS)

ACTUAL PARKING STALLS: 50 (INCLUDING 2 ACCESSIBLE STALLS)

GENERAL BUILDING CODE SUMMARY

BUILDING A - NON-SEPARATED USE

OCCUPANCIES
OFFICE: B
MAINTENANCE: S-1(CONTROLLING)

CONSTRUCTION TYPE: II-B

ALLOWABLE AREA: 17,500 SF
ACTUAL AREA: 13,059 SF (OK)

BUILDING B

OCCUPANCY: B

CONSTRUCTION TYPE: II-B

ALLOWABLE AREA: 23,000 SF
ACTUAL AREA: 1,130 SF (OK)

BUILDING C

OCCUPANCY: B

CONSTRUCTION TYPE: II-B

ALLOWABLE AREA: 23,000 SF
ACTUAL AREA: 1,250 SF (OK)

BUILDING D

OCCUPANCY: B

CONSTRUCTION TYPE: V-B

ALLOWABLE AREA: 9,000 SF
ACTUAL AREA: 198 SF (OK)

PERIMETER BUILDING LENGTHS	
A	559 LF
B	0 LF
C	170 LF
D	58 LF

1 CODE SITE PLAN
1" = 40'-0"

N

CODE SITE PLAN LEGEND

- BUILDING EXIT
- FIRE HYDRANT
- ENCLOSED BUILDING
- CANOPY COVERED BUILDING
- BUILDING PERIMETER DIMENSIONS

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5617 REGISTERED ARCHITECT
RANDAL J. COOK
STATE OF WASHINGTON

BID SET

Project Title
JEFFERSON TRANSIT AUTHORITY

63 FOUR CORNERS RD
PORT TOWNSEND, WASHINGTON 98368

Project Numbers
2013-006

FTA PROJECT NUMBER: WA-0180-02

Issue & Revision Dates

08 07 13	100% SD
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12 30 13	AGENCY SET
02 05 13	BID SET

Sheet Title
CODE SITE PLAN

Drawn By MR
Checked By MH

Sheet Number
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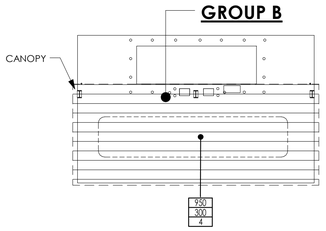


BUILDING 'B'

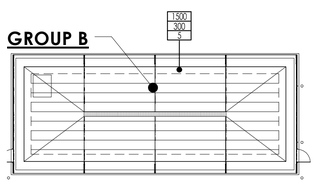
IBC SQUARE FOOTAGE	
BUILDING	SF 0
CANOPY (USABLE)	SF 1,130
TOTAL	SF 1,130

BUILDING 'B'

IFC SQUARE FOOTAGE	
BUILDING	SF 0
CANOPY (USABLE)	SF 1,130
ROOF OVERHANG	SF 0
MEZZANINE/PLATFORM	SF 0
TOTAL	SF 1,130

4 BUILDING B - FUEL CANOPY OCCUPANT TYPE &LOAD

1/16" = 1'-0"



BUILDING 'C'

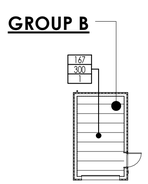
IBC SQUARE FOOTAGE	
BUILDING	SF 1,250
CANOPY (USABLE)	SF 0
TOTAL	SF 1,250

BUILDING 'C'

IFC SQUARE FOOTAGE	
BUILDING	SF 1,250
CANOPY (USABLE)	SF 0
ROOF OVERHANG	SF 0
MEZZANINE/PLATFORM	SF 0
TOTAL	SF 1,250

5 BUILDING C - BUS WASH OCCUPANCY TYPE & LOAD

1/16" = 1'-0"



BUILDING 'D'

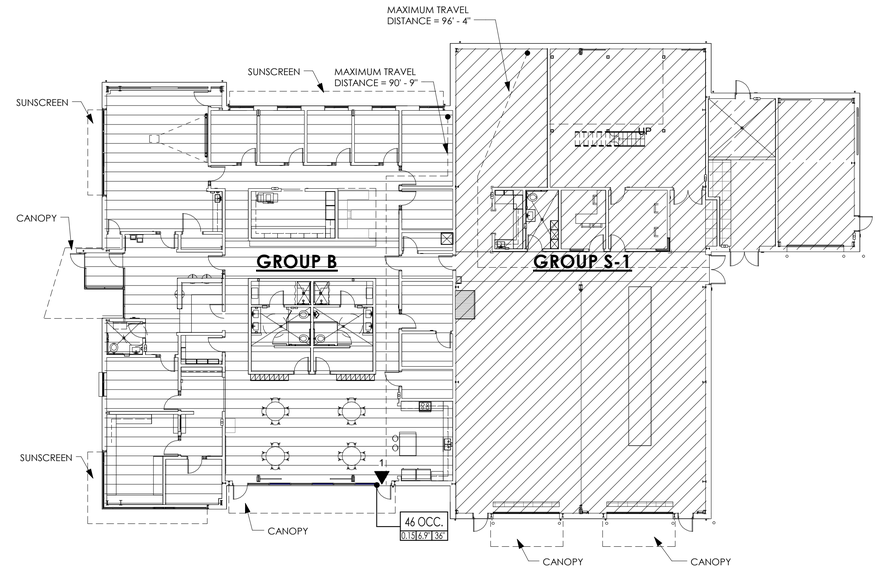
IBC SQUARE FOOTAGE	
BUILDING	SF 198
CANOPY (USABLE)	SF 0
TOTAL	SF 198

BUILDING 'D'

IFC SQUARE FOOTAGE	
BUILDING	SF 198
CANOPY (USABLE)	SF 0
ROOF OVERHANG	SF 0
MEZZANINE/PLATFORM	SF 0
TOTAL	SF 198

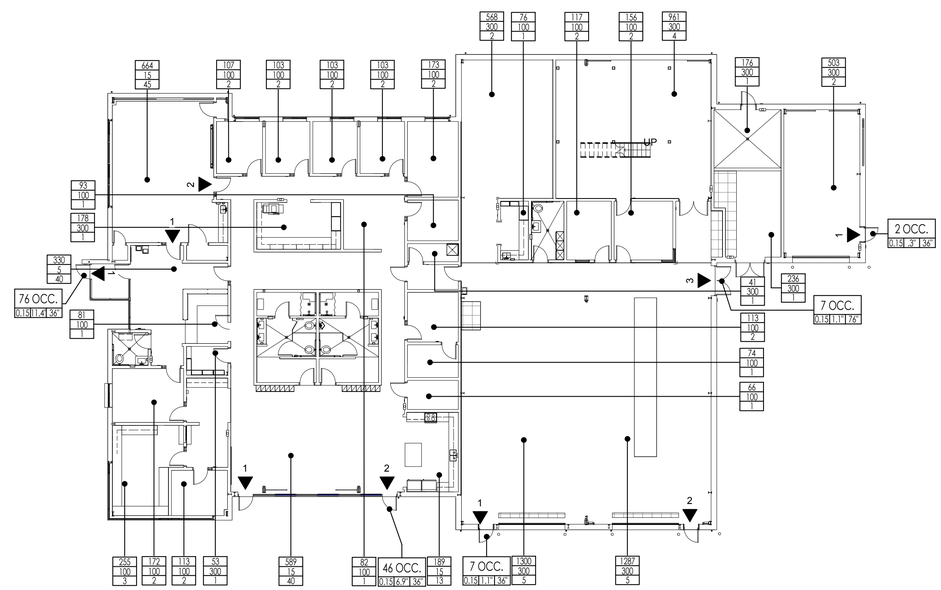
3 BUILDING D FLOOR PLAN

1/16" = 1'-0"



1 BUILDING A - MAIN BUILDING OCCUPANCY TYPE

1/16" = 1'-0"



BUILDING 'A'

IBC SQUARE FOOTAGE	
BUILDING	SF 12,668
CANOPY (USABLE)	SF 673
TOTAL	SF 13,341

BUILDING 'A'

IFC SQUARE FOOTAGE	
BUILDING	SF 12,668
CANOPY (USABLE)	SF 673
ROOF OVERHANG	SF 57
MEZZANINE/PLATFORM	SF 391
TOTAL	SF 13,789

BUILDING 'A' % FENESTRATION: 9.2 %

VERTICAL FENESTRATION	1087 SF
WALL AREA	11,829 SF
TOTAL	9.2%

BUILDING 'A' % SKYLIGHT: 1.7 %

TOTAL SKYLIGHT	216 SF
TOTAL ROOF AREA	12,928 SF
TOTAL	1.7%

2 BUILDING A - MAIN BUILDING OCCUPANT LOAD

1/16" = 1'-0"

OCCUPANCY LEGEND

GROUP B

GROUP S-1

SYMBOLS LEGEND

1000 — ROOM SIZE IN SQUARE FEET
50 — OCCUPANT LOAD FACTOR
20 — ROOM OCCUPANT

15 OCC. — NUMBER OF OCCUPANTS
15 2.25' 36" — DOOR WIDTH, MINIMUM OPENING SIZE, WIDTH FACTOR

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11 04 13	100% DD
12 30 13	AGENCY SET
02 05 13	BID SET

NOTE: DRAWING MAY BE REDUCED
0 4' 8' 16'

Sheet Title
OCCUPANCY TYPES & OCCUPANT LOADS

Drawn By MR
Checked By MH

Sheet Number
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Sheet Number 7 Of 203

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TCF Architecture

2012 INTERNATIONAL BUILDING CODE REVIEW BY CHAPTER

Project: **Jefferson Transit Authority Maintenance Operations, and Administration Center**
Date: **December 30, 2013**
Phase: Construction Documents
Review by: Randy Cook

General Information

Address: 63 Four Corners Rd, Port Townsend, Washington 98368
Parcel No. 001332009.
Site Area: 3.3 acres developed area
Seismic Zone: D
Wind Load: 110 MPH, Exposure B (Unless proven otherwise)
Snow Load: 25 psf

JURISDICTIONS

Jefferson County

Departments / Positions	Contact Person	Phone	E-Mail
Building Division			
Building Official	Carl Smith	(360) 379-4450	csmith@co.jefferson.wa.us
Plans Examiner II	Frank Benskin	(360) 385-9406	fbenskin@co.jefferson.wa.us
Community Development			
Associate Planner	Zoe Ann Lamp	(360) 379-4461	zlamp@co.jefferson.wa.us
Water			
Jefferson County PUD #1			
Health			
Env. Health Specialist	Randy Marx	(360) 385-9402	rmarx@co.jefferson.wa.us
Public Works			
	Eric Kuzma	(360) 385-9160	ekuzma@co.jefferson.wa.us
Fire			
East Jefferson Fire and Rescue	Frank Benskin	(360) 385-9406	fbenskin@co.jefferson.wa.us

LAND USE

Zone: RR (Rural Residential 1:10)
Development Standards: Jefferson County Code – Unified Development Code (UDC 18.30)

Conditional Use Permit: The conditional use permit was approved, see the CUP approval letter dated February 6, 2014.

Miscellaneous Provisions:

This project will be fully sprinkled and be classified as a Non Separated-Use per IBC 508.3.

Parking Calculations

Parking Requirements	Required Spaces	Spaces Provided
Jefferson County Parking Requirements		
Industrial: (Building A) 1 Space 1 per employee, no retail.	Up to 40 Employees: All are not on site at the same time. **= 40 Stalls Required**	**40 Stalls for staff*** **5 Stalls for Visitors*** **5 Stalls for Park and Ride** * of these two ADA are available for staff and visitors.
Totals	**Total Minimum Required: 40 Spaces**	**Total Spaces provided: 50 Spaces**
Accessible Parking per IBC Chapter 11		
Accessible Parking Spaces	Of the total minimum spaces required/provided, IBC Table 1106.1 requires that five (2) spaces be accessible.	Of the 50 spaces provided, a total of 2 spaces will be accessible.
Accessible Van Spaces	Of the total minimum spaces required, IBC Section 1106.5 requires that for every six (6) accessible spaces, one (1) space shall be van-accessible.	Of the 2 accessible spaces, 1 space will be designed as accessible van spaces..

CHAPTER 1 - ADMINISTRATION

101 General

101.4 Referenced Codes

The project is governed by all codes as adopted by Jefferson County.

Code Type	Adopted Code	Amendments / Notes
Building	2012 International Building Code (IBC)	Including Chapters C, E; Section 101 through 106 and H. Excluding Section H106, published by the International Code Council and excluding Chapters A, B, D, F, G, I , J and K and adopting the Wash State Building Code WAC 51-50, including Appendix M
Electrical	2011 National Electrical Code	NREC Compliance
Mechanical	2012 International Mechanical Code (IMC)	Published by the International Code Council, and adopting the Washington State Building Code WAC 51-52
Ventilation	Washington Ventilation and Indoor Air Quality Code 2006 (WAQ)	Washington State Building Code WAC 51-13
Plumbing	Uniform Plumbing Code (UPC) (Latest Edition)	Published by the International Association of Plumbing and Mechanical Officials (IAPMO) and adopting the Washington State Building WAC 51-56 and WAC 51-57
Fire Prevention	2012 International Fire Code / NFPA 13	Washington State Amendments not adopted.
Energy	2009 Washington State Energy Code (WSEC)	Washington State Building Code WAC 51-11
Accessibility	2012 International Building Code (IBC), Chapter 11 and ANSI 117.1, latest edition	Washington State Building Code WAC
Storm Water	Washington Department of Ecology Stormwater Management Manual for Western Washington (SWMMWW), latest edition.	As adopted by Jefferson County

105 Permits

Permit Type	Jurisdiction	Notes
Conditional Use Permit (CUP)	Department of Community Development	Awaiting Decision
Site Clearing / Grading	Jefferson County Public Works	No permit required
Site Improvements	DCD – Building Division	
Building	DCD – Building Division	
Electrical	L & I	
Plumbing	DCD – Building Division	Chapter 29, 2006 IBC
HVAC	DCD – Building Division	
Fire Sprinkler/ Fire Alarm	DCD – Building Division	deferred submittal by contractor
Generator	DCD – Building Division	
Fuel Tanks / Fuel System	DCD – Building Division	deferred submittal by contractor
Pre-Engineered Steel Structures	DCD – Building Division	deferred submittal by contractor
Pre-Engineered Test Structure	DCD – Building Division	deferred submittal by contractor

106 Construction Documents

106.3.4.2 Deferred Submittals
Deferred submittals are listed in table under Section 105 above.

108 Fees Fees for plan review and permits to be confirmed with Jefferson County

109 Inspections

Special Inspections will be required per IBC Chapter 17, Section 1704.1.1.

CHAPTER 2 - DEFINITIONS (see IBC for applicable definitions)

CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION

302 Classification

302.1 General

Identify Building Classification
Spaces used for different purposes at different times shall comply with all the requirements for each use.

Occupancy Group Identification

Bldg.	Bldg Description / Title	Occupancy Groups	IBC Section Reference	
A	Maintenance, Operations and Administration	B, S-1(controlling)	304, 311	S-1 will control for Non-separated Uses
B	Fueling Canopy	B	304	
C	Vehicle Wash, Tent Structure	B	304	
D	Vehicle Wash Equipment	B	304	

303.1.2 Small Assembly Spaces
A room or space used for assembly purposes with an occupant load of less than 50 persons and/or less than 750 SF in area and an accessory to another occupancy shall be classified as group B occupancy or a part of that occupancy.

Note: The Board Room, at building A, is considered Group B occupancy, with under 50 occupants and under 750 SF.

CHAPTER 4: SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

404 Atriums

The building is single story and thus does not have an atrium.

410 Stages and Platforms (N/A)

CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS

502 Definitions

502.1 Story Definition
That portion of a building included between the upper surface of a floor and the upper surface of the floor or roof next above...

Mezzanine Definition
An intermediate level or levels between the floor and ceiling of any story and in accordance with Section 505. Also see 505 Mezzanines below.

Table 503 Allowable Height and Building Areas

Bldg	Bldg Description / Title	Construction Type	Occupancy	Basic Allowable Area	Basic Allowable Height & Stories
A	Maintenance, Operations and Administration	Type II-B	S-1 (Controlling)	17,500 SF	55' (2 story)
B	Fuel Canopy	Type II-B	B	23,000 SF	55' (3 story)
C	Vehicle Wash, Tent Structure	Type II-B	B	23,000 SF	55' (3 story)
D	Vehicle Wash Equipment	Type V-B	B	9,000 SF	

504 Height

504.2 Automatic Sprinkler System Increase
Where the building is equipped throughout with a fire sprinkler system per 903.3.1.1, the table 503 values may be increased by 20 feet in height and one-story. These increases are permitted in addition to the area increase in 506.2., but cannot be used if a fire-resistive substitute is used in table 601.

Actual Heights: All buildings are one story, so all comply. 1 Pre Fabricated mezzanine will be place in Building A Parts room (see below).

505 Mezzanines

505.1 General
Mezzanines in compliance with Section 505 shall be considered a portion of the story below. Such Mezzanines shall not contribute to either the building area or the number of stories as regulated by Section 503.1. The area of the mezzanine shall be included in determining the fire area defined in Section 702. The clear height above and below the mezzanine floor construction shall not be less than 7 feet.

505.2 Area Limitation (As related to Mezzanines)
The aggregate area of a mezzanine or mezzanines within a room shall not exceed one-third of the floor area of that room or space in which they are located. (See exception below.)

505.2.2

Exceptions:

2. The aggregate area of mezzanines in buildings and structures of Type I or II construction shall not exceed one-half (50%) of the floor area of the room in buildings and structures equipped with an approved automatic sprinkler system in accordance with Section 903.3.1.1 and an approved emergency voice/alarm communication system in accordance with Section 907.2.12.2.

Calculations to Determine Mezzanine Designations

Bldg	Bldg Description / Title	Total Floor Area	Total Upper Area	% of upper to lower floor area	Conclusion
A	Maintenance, Operations and Administration	961 SF Parts Room	391 SF	40.7% < 50% (ok)	Upper level may be considered a mezzanine

505.3 Egress (As related to Mezzanines)

Egress shall comply with chapter 10. Per 1015.1 one means of egress is ok at a mezzanine if the table 1015.1 requirements are met. See table below. 1 means of egress is (OK)

Exception: A Single means of egress shall be permitted in accordance with Section 1015.1. See table below for a summary of the actual VS allowable occupant loads, beyond which two means of egress are required.

Bldg	Bldg Description / Title	Actual Mezzanine Occupant Load	Max Occupant Load (Table 1015.1 – 'S' Occupancy)	Results
A	Maintenance, Operations and Administration	2	29	2 < 29 (ok) (Single exit allowed)

505.4 Openness (As related to Mezzanines)

A mezzanine shall be open and unobstructed to the room in which the mezzanine is located except for walls not more than 42" high, columns and posts.

- The mezzanine proposed in Building A will have an open railing with posts.

505.5 Equipment Platforms

Note: No equipment platforms are in this project.

506 Area Modifications

Note: Area modifications are not required as the square footage is within the allowable area and height, see table below.

Comparison of Allowable Area to Actual

Bldg	Bldg Description / Title	Allowable Area (503)	Actual Total Enclosed Bldg Area (1)	Actual Total Canopy Area (1)	Actual Total Bldg Area (1) (2)	Result (ok)
A	Maintenance, Operations and Administration (S-1/Type II-B)	17,500 SF	12,668 SF	673 SF (usable space)	13,341 SF	(ok)
B	Fuel Canopy (B/Type II-B)	23,000 SF	0 SF	1,130 SF (usable space)	1,130 SF	(ok)
C	Wash Building - Tent Structure (B/Type II-B)	23,000 SF	1,250 SF	0 SF (usable space)	1,250 SF	(ok)
D	Vehicle Wash Equipment (B/Type V-B)	9,000 SF	198 SF	0 SF (usable space)	198 SF	(ok)

(1) Actual building area shown is calculated to the exterior face of building enclosure (not including finish material), exclusive of the mezzanine areas, equipment platforms and mechanical attics, and to the face of the roof overhang in the case of non-enclosed, usable canopy areas).

(2) This total actual building area is NOT the same as the area used for the "Fire" protection calculations under IFC Section 503.1.1 and Appendix B. The Fire Protection area includes the mezzanine in Building A, and all roof overhangs projecting beyond the walls of the enclosed building portions, and usable canopy portions. See Table B105.1 included later in this checklist document.

506.4.1 Mixed Occupancies
In buildings with mixed occupancies, the allowable area per story shall be based on the most restrictive provisions for each occupancy when the mixed occupancies are treated according to Section 508.3.2.

Note: Buildings 'A' is a mixed occupancy building, but is designed using the Non-Separated Use designation with the most restrictive occupancy controlling. (see 508.3)

507 Unlimited Area Buildings

Note: Not applicable to this project.

508 Mixed Use and Occupancy

508.1 General

Each portion of a building shall be individually classified per 302.1. If the building has more than one occupancy group, it must comply with 508.2, 508.3 or 508.4, or a combination of these.

508.2 Accessory Occupancies

Where a building contains more than one occupancy group, the building or portion thereof shall comply with Sections 508.3.1, 508.3.2 508.3.3 or a combination of these sections. (Not applicable to this project.)

Accessory occupancies are those occupancies subsidiary to the main occupancy of the building or portion thereof. Aggregate accessory occupancies shall not occupy more than 10 percent of the area of the story in which they are located and shall not exceed the tabular values in Table 503, without height and area increases in accordance with Sections 504 and 506 for such accessory occupancies.

Note: Accessory Occupancies for this project: None, building A meets the requirements for Non-separated Occupancies 508.3.2.

508.2.5 Separation of incidental accessory occupancies

Note: No incidental accessory occupancies.

508.3 Non-Separated Occupancies
Buildings or portions of buildings that comply with the provisions of this section shall qualify as nonseparated occupancies. Per 508.3.2 the allowable area and height of the building shall be based on the most restrictive allowances in 503.1.

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Building A: Since Building A will comply with the requirements for S-1 occupancies, which are the most restrictive, no separations are required between the B and S-1 Occupancies.

508.4 Separated Occupancies
Buildings or portions of buildings that comply with the provisions of this section shall qualify as nonseparated occupancies. Per 508.3.2 the allowable area and height of the building shall be based on the most restrictive allowances in 503.1. Occupancies must be separated per table 508.4 with fire barriers.

Since this project complies with 508.3.1, 508.3.2 and 508.3.3 above, this section does not apply.

Table 508.4 No separations are required per 508.3 as noted above.

CHAPTER 6: TYPES OF CONSTRUCTION

Table 601 Fire Resistive Rating Requirements for Building Elements

Building Element	Type II-B All buildings
Structural Frame	0
Exterior Bearing Walls	0
Interior Bearing Walls	0
Exterior Non-bearing Walls and Partitions	0 (1)
Interior Non-bearing Walls and Partitions	0
Floor Construction including supporting beams and joists	0
Roof Construction including supporting beams and joists	0

Notes to Table 601 above
(1) Per Table 602, all fire separation distances between buildings are greater than 10 feet. Therefore, no special fire resistive ratings are required.

602 Construction Classification

602.1 General:
Buildings and structures erected or to be erected, altered or extended in height or area shall be classified in one of the five construction types defined in Sections 602.2 through 602.5. The building elements shall have a fire resistance rating not less than that specified in Table 601 and exterior walls shall have a fire-resistance rating not less than that specified in Table 602.

See Table 503 above for construction type designation. All buildings for this project are classified at Type II-B.

602.2 Types II: (All buildings)
Type I and II construction are those types of construction in which the building elements listed in Table 601 are of non-combustible materials except as permitted in Section 603 and elsewhere in this code.

CHAPTER 7: FIRE-RESISTANCE-RATED CONSTRUCTION

705 Exterior Walls

705.2.1 Projections at Type II
Projections from walls of Type II construction shall be of non-combustible or combustible materials per 1406.3 & 1406.4.

This project utilizes non-combustible construction for all projections from the walls.

705.3 Buildings on the same lot
…. Buildings on the same lot shall be assumed to have an imaginary line between them.

705.4 Materials
Exterior walls shall be of materials permitted by the building type of construction.

This project utilizes non-combustible materials.

705.5 Fire-resistance Ratings
Exterior walls shall be fire-resistance rated in accordance with Tables 601 & 602.

Per descriptions under Table 601 and Table 602 above, no fire resistance ratings are required at any exterior building walls, as in all cases at least 30 feet of separation is provided.

705.6 Structural Stability
The wall shall extend to the height required by Section 705.11…

Since exterior walls do not require fire-resistance rated construction this section does not apply to this project.

705.7 Unexposed surface temperature
Since protected openings are not limited by Section 705.8 this section does not apply to this project.

705.8 Allowable Area of Openings

Openings in exterior walls shall comply with Table 705.8, Maximum Area of Exterior Wall Openings

Table 705.8 Maximum Area of Exterior Wall Openings

Since no fire resistance is required at exterior walls, (per Tables 601, 602, and Section 705.1 above), exterior walls are permitted to have unlimited unprotected openings.

705.8.1 Allowable Area of Openings

Building A , C and D are separate by 10' – 6", per table 705.8 the Building A is allowed 45% of the wall area to be unprotected openings with 10'-15' of clearance between structure and fully sprinkled. See the table below for results:

Bldg	Bldg Description / Title	Exterior Wall Area	Exterior Opening Area	% of Openings	Allowable % of Openings (UP, S)	Result (ok)
A	Maintenance, Operations and Administration	11,829 SF	1,087 SF	9.2%	45%	(ok)

705.8.5 Vertical Separation of Openings
Openings in exterior walls in adjacent stories shall be separated vertically to protect against fire spread…

Per exceptions 1 & 2 this project need not comply since it is less than three stories in height and is protected with an automatic sprinkler system per 903.3.1.1.

705.8.6 Vertical Exposure

Per Exception, this section is not applicable to the project as no fire resistance ratings are required.

705.9 Joints

Since exterior walls do not require fire-resistance rated construction this section does not apply to this project.

705.10 Ducts and Air Transfer Openings

Since exterior walls do not require fire-resistance rated construction this section does not apply to this project.

705.11 Parapets

Note: No parapets on this project

706 Fire Walls

No Fire Walls are required in the project. (See review under Chapter 5).

707 Fire Barriers

Applies to Fire Barriers for separation of shafts, exits, exit passageways, horizontal exits, or incidental use areas, to separate different occupancies, to create fire areas, etc.

Note: None are required on this project. If no rated walls then ok.

708 Fire Partitions

708.1 General
This section establishes wall assembly requirements per items 1-5.

Items 1, 2, 3 and 5 do not apply to the project.

Item 4 - Corridor walls must comply with 1018.1.

Table 1018.1: Since building A is fully sprinklered (Building 'B', 'C' and 'D' are not sprinkled), Table 1018.1 does not require a fire rating at corridors for any of the occupancies in the project.

708.3 Fire Resistance Rating
Per exception 1 corridor walls must be protected per Table 1018.1.

Table 1018.1: Since building A is fully sprinklered Table 1018.1 does not require a fire rating at corridors for any of the occupancies in the project.

709 Smoke Barriers

If required elsewhere in the code, a smoke barrier shall comply with this section.

This project does not have any smoke barriers.

710 Smoke Partitions
If required elsewhere in the code, a smoke barrier shall comply with this section.

The building is designed with non-separated occupancies per 508.3.

711 Horizontal Assemblies

Floor and roof assemblies required to have a fire-resistive rating shall comply with this section.

Since this project does not require fire-resistance rated construction, this section does not apply to this project.

711.3 Fire Resistance Rating
Unless required elsewhere in the code, smoke partitions are not required to have a fire-resistance rating.

711.4 Continuity
Smoke partitions shall extend the top of the foundation or floor below to the underside of the floor or roof sheathing, deck or slab above or to the ceiling from floor to floor or roof above or ceiling above where the ceiling membrane is constructed to limit the transfer of smoke.

711.5 Penetrations
The space around penetrating items and in joints shall be filled with an approved material to limit the free passage of smoke, comply with section 714.

Note: For this Project, this requirement will be accommodated by providing caulking and GWB tight to and fully taped around penetrations.

711.6 Joints
Joints made in or between horizontal assemblies shall comply with section 715.

711.7 Ducts and air transfer openings
Penetrations in horizontal assemblies y ducts and air transfer openings shall comply with section 717.

This requirement will be accommodated by providing caulking and GWB tight to and fully taped around penetrations.

712 Vertical Openings

The provisions of this section shall apply to vertical opening applications.

712.2-18 Vertical Openings Sections

Since this project will not have rated shafts, these sections do not apply.

713 Shaft Enclosures

The provisions of this section shall apply to vertical shafts where such shafts are required to protect openings and penetrations through floor/ceiling and roof/ceiling assemblies. Shaft enclosures shall be constructed as fire barriers in accordance with 707 or horizontal assemblies per 711 or both.

714 Penetrations

This section shall govern the materials and methods of construction used to protect through penetrations and membrane penetrations of horizontal assemblies and fire-resistance rated wall assemblies.

714.3 Fire-resistance-rated Walls
Includes Fire Walls, Fire Barriers, Smoke Barrier Walls and Fire Partitions

714.3.2 Membrane Protection
Membrane penetrations shall comply with 713.3.1.

714.4 Horizontal Assemblies
Penetrations of a floor, floor/ceiling assembly or the ceiling membrane of a roof/ceiling assembly shall be protected per 708.2.

This applies to penetrations of non-fire-rated horizontal assemblies in order to use exceptions 3 & 4 of 707.2. (N/A)

714.4.1 Fire-resistance Rated Assemblies

Since this project does not require fire-resistance rated construction, this section does not apply to this project.

714.4.2 Non Fire-Resistance Rated Assemblies
Penetration of horizontal assemblies without a required fire-resistance rating shall meet the requirements of 708 or shall comply with 713.4.2.1 through 713.4.2.2.

Note: This project will comply with 713.4.2.1 through 713.4.2.2 in order to use exceptions 3 & 4 of 708.2.

714.4.2.1 Noncombustible Penetrating Items
Noncombustible penetrating items that connect not more than three stories are permitted, provided the annular space is filled with an approved noncombustible material to resist the free passage of flame and the products of combustion.

Note: For this project the annular space at all pipes, conduits, ducts, etc. are to be filled with an approved material meeting this standard.

714.4.2.2 Penetrating Items
Penetrating items that connect not more than two stories are permitted, provided the annular space is filled with an approved noncombustible material to resist the free passage of flame and the products of combustion.

Note: For this project the annular space at all pipes, conduits, ducts, etc. are to be filled with an approved material meeting this standard.

715 Fire-Resistant Joint Systems

Note: Since this project does not require fire-resistance rated construction, this section does not apply to this project.

716 Opening Protectives

Opening protectives required by other sections of the code shall comply with the provisions of this section.

717 Ducts and Air Transfer Openings

Note: For this project the requirements in this section will be limited to floor penetrations and openings at fire barrier walls noted in 706 and smoke dampers for incidental use rooms, if any.

717.5.2 Fire Barriers
Ducts and air transfer openings of fire barriers shall be protected with approved fire dampers installed in accordance with their listing.

In other than Group H occupancies, and when buildings are equipped throughout with an automatic sprinkler system, when fire barriers have a required fire-resistance of 1 Hr or less and such walls are penetrated by ducted HVAC system constructed of steel sheet not less than 26 gauge thickness continuously from air handing appliance or equipment to the air outlet and inlet terminals.

717.6.3 Non-fire-resistance-rated floor assemblies
Ducts connecting not more than two stories: the annular space around the penetrating duct is protected with an approved non combustible material that resists the free passage of flame and the products of combustion.

718 Concealed Spaces

Not applicable since project will be of non-combustible construction.

720 Thermal- and Sound-Insulating Materials

Insulating materials, including facings such as vapor retarders and vapor-permeable membranes, similar coverings, and all layers of single and multilayer reflective foil insulations, shall comply with the requirements of this section including specifications regarding flame spread index or smoke-developed index requirements.

721 Prescriptive Fire Resistance

Table 720.1 provides lists of assemblies and ratings.

CHAPTER 8: INTERIOR FINISHES

803 Wall and Ceiling Finishes
Wall and ceiling finishes shall be classified in accordance with ASTM E 84 and shall be grouped as follows:

Class A: Flame spread of 0-25; smoke developed 0-450.

Class B: Flame spread of 26-75; smoke developed 0-450.

Class C: Flame spread of 76-200; smoke developed 0-450.

Table 803.9 Interior Wall and Ceiling Finish Requirements by Occupancy (For Sprinklered Buildings)

- Exit enclosures and exit passageways: Class B for A & B occupancies and Class C for S occupancies (note that this project does not include these spaces).
- Corridors: Class B for A occupancies and Class C for B and S occupancies.
- Rooms and enclosed spaces: Class C

804 Interior Floor Finish

Materials anticipated for this project will comply.

805 Combustible Materials in Type I and II Construction

N/A: The project does not contain wood sub-floor conditions as noted in the Section.

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806 Decorative Materials and Trim

...Curtains, draperies, hangings and other decorative materials suspended from walls or ceilings shall meet the flame propagation performance criteria of NFPA 701 in accordance with 806.2 or be noncombustible...

Fixed or movable walls and partitions, paneling, wall pads and crash pads applied structurally or for decoration, acoustical correction, surface insulation or other purposes shall be considered interior finish if they cover 10 percent or more of the wall or of the ceiling area, and shall not be considered decorative materials or furnishings.

CHAPTER 9: FIRE PROTECTION SYSTEMS

903 Automatic Sprinkler Systems

903.2.9 Group S-1 – Building A
An automatic sprinkler system shall be provided for Group S-1 occupancies as follows:

1. The fire area exceeds 12,000 square feet.

Buildings A Exceeds the 12,000 SF threshold, sprinkler system will be provided.

Building B, Group B
An open canopy structure under 12,000 SF, no sprinkler system will be provided.

Building C, Group B
A fabric structure under 12,000 SF, no sprinkler system will be provided.

Building D, Group B
An enclosed, steel framed structure under 12,000 SF, no sprinkler system will be provided.

903.3 Installation Requirements
Per 903.3.1.1 an automatic sprinkler system complying with the requirements of NFPA 13 shall be installed throughout.

Note: The sprinkler system for this Project will be a bidder-design / installed system and will be submitted for permitting as a deferred submittal.

906 Portable Fire Extinguishers

Portable fire extinguishers shall be provided in occupancies and locations as required by the International Fire Code.

907 Fire Alarm and Detection Systems

907.1.1 Construction Documents
Engineered construction documents for fire alarm systems will be submitted by the contractor for review and approval by the reviewing agency prior to system installation. Construction documents shall include those items listed in this section.

Note: For this Project, the fire alarm system will be a bidder-design /installed system and will be submitted for permitting as a deferred submittal.

907.2 Where Required
A system installed per this code and NFPA 72 shall be provided in new buildings and structures in accordance with this section and provide occupant notification in accordance with 907.5. Where automatic sprinkler protection is installed per 903.3 is provided and connected to the building fire alarm system, automatic heat detection required by this section shall not be required.

The automatic fire detectors shall be smoke detectors. Where ambient conditions prohibit installation of automatic smoke detection, other automatic fire detection shall be allowed.

907.4.2 Manual Fire Alarm Boxes
Manual fire alarm boxes shall comply with the requirements of this section.
Manual fire alarm boxes shall be located not more than 5 feet from the entrance to each exit and so that travel distance to the nearest box does not exceed 200 feet; between 42 and 48 inches high from floor to activating handle; shall be red; shall include signage per this section if not monitored.

912 Fire Department Connections

Fire department connections and related signage shall be provided as required by this section and the NFPA.

CHAPTER 10: MEANS OF EGRESS

1003 General Means of Egress

The requirements of 1003 through 1013 shall apply to all three elements of the means of egress system.

1003.2 Ceiling Height
The means of egress shall have a ceiling height of not less than 7 feet 6 inches.

1003.3 Protruding Objects

1003.3.1 Headroom
Head height can be reduced to 80" for hanging objects (lights, etc.). Need to provide a barrier if head height is less than 80". Per exception, at door closers and stops head height can be reduced to 78".

1003.3.3 Horizontal Projections
Structural elements, fixtures, etc. shall not project horizontally from the side by more than 4" over the walking surface from +27" to +80".

1004 Occupant Load

Table 1004.1.1 Maximum Floor Area Allowances per Occupant

Accessory stg. areas, mech. equip. room	300 gross
Archives/Warehouses	500 gross
Assembly without fixed seats	7 net at concentrated (non-fixed chairs) 5 net at standing 15 net at unconcentrated (tables & chairs)
Business areas	100 gross
Educational – Classroom area	20 net
Kitchens, commercial	200 gross
Parking Garages	200 gross

1004.3 Posting of Occupant Load
Shall be posted for all assembly spaces near the main exit or exit access doorway. Generally this applies to rooms with an occupant load of 50 or more.

1004.8 Outdoor areas
Yards, patios, courts and similar outdoor areas accessible to and usable by the building occupants shall be provided with means of egress as required by this chapter.

1005 Means of Egress Sizing

1005.1 Minimum Required Egress Width
Egress Width per Occupant Served (Occupancies are calculated with a sprinkler system.)

- 0.3 inches/occupant for stairs
- 0.2 inches/occupant for other egress components
- Exceptions: mean of egress complying with section 1028

Multiple means of egress shall be sized such that the loss of any one means of egress shall not reduce the available capacity to less than 50 percent of the required capacity. The maximum capacity required from any story of a building shall be maintained to the termination of the means of egress.

1005.7.1 Door Encroachment
Doors opening into the path of egress travel shall not reduce the required with to less than one-half during the course of the swing. When fully open, the door shall not project more than 7 inches into the required width.

1006 Means of Egress Illumination
The means of egress, including the exit discharge, shall be illuminated at all times the building space served by the means of egress is occupied.
Note: For this project, means of egress illumination to be provided by battery

1007 Accessible Means of Egress
Accessible spaces shall be provided with not less than one accessible means of egress. Where more than one means of egress is required by 1015.1 or 1021.1 from any accessible space, each accessible portion of the space shall be served by not less than two accessible means of egress.

Per 1002, a continuous and unobstructed way of egress travel from any accessible point in a building or facility to a public way.

1007.2 Continuity & Components
Each required means of egress shall be continuous to a public way and shall consist of one or more of the listed components.

1007.3 Stairways
An exit stairway shall have a clear width of 48" min. between handrails. The following exceptions apply:

Per exception 1, the clear width of 48" between handrails is not required at exit stairways in buildings that are equipped throughout with a fire sprinkler system.

Per exception 2, areas of refuge are not required at exit stairways in buildings equipped throughout with an automatic fire sprinkler system

Note: There are no stairs between floors on this project.

1007.4 Elevators

Not applicable to this project.

1007.6 Area of Refuge

No areas of refuge are required for this project per 1007.3, exception 3.

1007.9 Signage (for areas of refuge)

Not applicable to this project.

1008 Doors, Gates & Turnstiles

1008.1 Doors
Means of egress doors shall meet the requirements of this section. Doors serving a means of egress system shall meet the requirements of this section and 1020.2. Doors provided for egress purposes in numbers greater than required by this code shall meet the requirements of this section.

1008.1.1 Size of Doors
The minimum width of each door opening shall be sufficient for the occupant load thereof and shall provide a clear width of not less than 32 inches. The maximum width of a swinging door leaf shall be 48 inches nominal. The height of doors shall not be less than 80 inches.

1008.1.2 Door Swing
Egress doors shall be side-hinged swinging.

Doors shall swing in the direction of travel for occupant loads of 50 or more.

1008.1.5 Floor Elevation
There shall be a floor or landing on each side of a door at the same elevation on each side of the door, and shall be level except at the exterior which are allowed to slope at ¼ inch per foot.

1008.1.6 Landings at Doors
Landings shall have a width not less than the width of the stairway or the door, whichever is greater. Doors in the fully open position shall not reduce a required dimension by more than 7". When a landing serves an occupant load of 50 or more, doors in any position shall not reduce the landing to less than one-half its required width. Landings shall have a length measured in the direction of travel of not less than 44".

1008.1.8 Door Arrangement
Space between two doors in a series shall be 48 inches minimum plus the width of a door swinging into the space. Doors in a series shall swing either in the same direction or away from the space between the doors.

1008.1.9 Door Operations
Except as specifically permitted by this section egress doors shall be readily openable from the egress side without the use of a key or special knowledge or effort.

1008.1.10 Panic and Fire Exit Hardware
...Each door in a means of egress from a Group A occupancy having an occupant load of 50 or more...shall not be provided with a latch or lock unless it is panic hardware or fire exit hardware.

Electrical rooms with equipment rated 1,200 amperes or more...with exit access doors must be equipped with panic hardware and doors must swing in the direction of egress.

1009 Stairways

1009.4 Stairway Width
Per 1005.1 but not less than 44", except that occupant loads of less than 50 may be 36" minimum.

1009.5 Stairway Head Height
80" minimum

1009.7 Stair Treads and Risers
Risers shall be 4" minimum and 7" maximum. Treads shall be 11" minimum.

1009.8 Stairway Landings
Landing required at top and bottom minimum of each stairway. The width shall not be less than the width of the stairways they serve. The minimum dimension measured in the direction of travel shall be equal to the stair width but nee not exceed 48" for straight run stairs.

Doors at landings cannot reduce the landing to less than 1/2 the required width. When fully open, a door cannot project more than 7" into a landing.

1009.6.3 Enclosures under Stairways
The walls and soffits within enclosed usable spaces under enclosed and unenclosed stairways shall be protected by 1-hour fire-resistance-rated construction or the fire-resistance rating of the stairway enclosure, whichever is greater. Access to the enclosed space shall not be directly from within the stair enclosure.

1009.10 Vertical Rise
A flight of stairs shall not have a vertical rise greater than 12 feet between floor levels or landings.

1009.15 Handrails
Stairways shall have handrails on each side and shall comply with 1012.

1010 Ramps

Note: No ramps are anticipated in the Project.

1011 Exit Signs
See electrical drawings and specifications

1012 Handrails

1012.2 Height
...Shall be not less than 34" and not more than 38"...

1012.3 Handrail Graspability
...outside diameter of at least 1.25 inches and not greater than 2"

1012.4 Continuity
Handrail-gripping surfaces shall be continuous, without interruption by obstructions.

1012.6 Handrail Extensions
Handrails shall return to a wall, guard or the walking surface or shall be continuous to the handrail of an adjacent stair flight or ramp run. Where not continuous between flights, the handrails shall extend horizontally at least 12 inches beyond the top riser and continue to slope for the depth of one tread beyond the bottom riser. At ramps where handrails are not continuous between runs, they shall extend horizontally above the landing 12 inches minimum beyond the top and bottom ramps.

Note: The owner is using an existing prefabricated mezzanine for small parts storage (see drawings in the G5 series). The existing stair system does not provide handrail extensions. An exemption is proposed on railing requirements based on the fact that the mezzanine is in a secure room, and only 2 or 3 employees will have access to the this storage space.

1012.7 Clearance
Clear space between a handrail and a wall or other surface shall be a minimum of 1.5 inches.

1012.8 Projections
On ramps, the clear width between handrails shall be 36 inches minimum. Projections into the required width of stairways and ramps at each handrail shall not exceed 4.5 inches at or below the handrail height.

1013 Guards

1213.1 Guards shall be located along open-sided walking surfaces, mezzanines, industrial equipment platforms, stairways, ramps and landings that are located more than 30 inches above the floor or grade below.

1013.2 Height
Guards shall form a protective barrier not less than 42 inches high.

1013.3 Opening Limitations
Required guards shall not have openings in which allow passage of a sphere 4 inches in diameter from the walking surface to the required guard height.

Per exception 3, at elevated walking surfaces for access to equipment guards shall be of a solid material such that a sphere with a diameter of 21 inches cannot pass through any opening.

Note: Note: The owner is using an existing prefabricated mezzanine for small parts storage (see drawings in the G5 series). The existing stair system does not meet the opening limitation requirement. An exemption is proposed on the opening limitation, similar to exception 3 in 1013.3, based on the fact that the mezzanine is in a secure room, and only 2 or 3 employees will have access to the this storage space.

1014 Exit Access

1014.2 Egress Through Intervening Rooms
Egress from a room or space shall not pass through adjoining or intervening rooms, except where such adjoining rooms or areas are accessory to the area served, are not high hazard, and provide a discernible path of egress travel to an exit.

Egress shall not pass through kitchens, storage rooms, closets or spaces used for similar purposes.

1014.3 Common Path of Egress Travel
In occupancies other than H-1, H-2 and H-3, the common path of egress travel shall not exceed 75 feet. Also see 1028.8.

This defines the travel distance before two separate and distinct paths of egress travel are available. In reviewing the IBC Commentary, under the definition of an "Occupied Space", it specifically says that toilet rooms, closets and mechanical equipment rooms are not occupied spaces. Therefore, this section should not apply to these rooms.

Exception 1: The length of a common path of egress travel in Group B, F and S occupancies shall not be more than 100 feet in a building equipped throughout with a fire sprinkler system.

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1015 Exit and Exit Access Doorways –
Two exists or exit access doorways from any space shall be provided where one of the following conditions exists:

1. Occupant load of the space exceeds one of the values in Table 1015.1
2. The common path of egress travel exceeds one of the limitations of section 1014.3
3. Where required by Section 1015.3, 1015.4, 1015.5, 1015.6 or 1015.6.1.

Table 1015.1 - Spaces with One Exit or Exit Access Doorway

Building	Occupancies	Max Occ. Load	Exits Provided
A – Maint, Ops. & Admin	B, S-1	B: 49, S-1: 29	See Code Diagrams in Drawings
C – Vehicle Wash	B	S-1: 29	See Code Diagrams in Drawings
D – Vehicle Wash Equip.	B	B: 49	See Code Diagrams in Drawings

1016 Exit Access Travel Distance –
Exits shall be located on each story such that the maximum length of exit access travel, measured from the most remote point within a story along the natural and unobstructed path of egress travel to an exterior exit door at the level of exit discharge, an entrance to a vertical exit enclosure, and exit passageway, a horizontal exit, an exterior exit stairway, or an exterior exit ramp, shall not exceed the distances given in Table 1016.1.

Exceptions: None used

Table 1016.2 - Exit Access Travel Distance

Building	Occupancies	Max Distance with Sprinkler System (Feet)	Maximum Distance
A – Maint, Ops. & Admin	B, S-1	B: 300' / S-1: 250'	See Code Diagrams in Drawings
C – Vehicle Wash	B	B: 300'	See Code Diagrams in Drawings
D – Vehicle Wash Equip.	B	B: 300'	See Code Diagrams in Drawings

1017 Aisles – Not Applicable:

1018 Corridors – Not Applicable. The project does not contain IBC-defined "Corridors".

1019 Egress Balconies: (Not Applicable)

1021 Number of Exits and Exit Configuration
Each story should have the minimum number of exits, or access to exits, as specified in this section

1021.2
Two exits, or access stairways or ramps providing access to exits, from any story shall be provided at the following conditions:

1. The occupant load exceeds the values in table 1021.2
2. The exit access travel distance exceeds that specified in table 1021.2

Table 1021.2 - Access to one exit per story (if above max allowed occs, 2 exits are required)

Building	Max Occupants	Actual Occ. Load	Min Exits	Exits Provided
A - Maint, Ops. & Admin	S-1: 49	> 49	2	See Code Diagrams in Drawings
C – Vehicle Wash	B: 49	< 49	1	See Code Diagrams in Drawings
D – Vehicle Wash Equip	B: 49	< 49	1	See Code Diagrams in Drawings

Note: Building A will exceed 2 exits.

1022 Interior Exit stairways and Ramps (Not Applicable)

1023 Exit Passageways (Not Applicable)

1024 Luminous Egress Path Markings

1025 Horizontal Exits (Not Applicable)

CHAPTER 11: ACCESSIBILITY
1101 General

1101.1 Scope: The provisions of this chapter shall control the design and construction of facilities for accessibility of facilities for accessibility to physically disabled persons.

1101.2 Design: Buildings and facilities shall be designed and constructed to be accessible in accordance with this code and ICC A117.1
1103 Scoping Requirements

1103.1: Where Required: Sites, buildings, structures, facilities, elements and spaces, temporary or permanent, shall be accessible to persons with physical disabilities.

1103.2: General Exceptions:
1103.2.9: Equipment Spaces: Spaces frequented only by personnel for maintenance, repair, or monitoring of equipment are not required to be accessible.

1104 Accessible Route

1104.1: Site Arrival Points: Accessible routes within the site shall be provided from public transportation stops; accessible parking; accessible passenger loading zones; and public streets or sidewalks to the accessible building entrance served.

1105: Accessible Entrances

1105.1 Public Entrances: In addition to accessible entrances required by Sections 1105.1.1 through 1105.1.6, at least 60 percent of all public entrances shall be accessible.

1106: Parking and Passenger Loading Facilities

1106.1 Required: Where parking is provided, accessible parking spaces shall be provided in compliance w1th Table 1106.1, except as required by Sections 1106.2 through 1106.4. Where more than one parking facility is provided on a site, the number of parking spaces required to be accessible shall be calculated separately for each parking facility.

1106.5: Van Spaces: For every six or fraction of six accessible parking spaces, at least one shall be a van accessible parking space.

1106.6 Location (From Washington State Amendments): Accessible parking spaces shall be located on the shortest accessible route of travel from adjacent parking to an accessible building entrance. In parking facilities that do not serve a particular building, accessible parking spaces shall be located on the shortest route to an accessible pedestrian entrance to the parking facility. Where buildings have multiple accessible entrances with adjacent parking, spaces shall be dispersed and located near accessible entrances. Wherever practical, the accessible route shall not cross lanes of vehicular traffic. Where crossing traffic lanes is necessary, the route shall be designated and marked as a crosswalk.

CHAPTER 26: PLASTIC

2603 Foam Plastic Insulation
This chapter contains provisions related to plastic foam insulation.

Note: Foam plastic insulation used on the high bay portion of the structure, shall comply with 2603.10. As a one story building complies with exception 2603.5.2 regarding thermal barriers, referencing section 2603.4.1.4 for exterior walls – one story building.

CHAPTER 29: PLUMBING SYSTEMS
Use Washington State Amended Chapter (7-1-10) replacing IBC Chapter 29 in its entirety.

2901.2 Minimum Requirements
Use Table 2902.1 for minimum fixtures to be provided. The number of occupants used for determining minimum fixtures and facilities shall be computed at the rate of one occupant per unit of net floor area as prescribed in Table 2902.1

2903.1 Minimum Requirements
Separate toilet facilities shall be provided for each sex.

2904.4.1 Number of Drinking Fountains
Occupant loads over 30 shall have one drinking fountain for the first 150 occupants, then one per each additional 500 occupants.

Drinking Fountains Provided

Building	Provisions
Building A: Maint, Ops, Admin	Occupant Load exceeds 150. Three fountains are provided (two standard, one accessible).
Building B: Fuel Canopy	The occupant load is under 30. No fountain is provided.
Building C: Vehicle Wash	The occupant load is under 30. No fountain is provided.
Building D: Vehicle Wash Equip.	The occupant load is under 30. No fountain is provided.

Table 2902.1 Minimum Plumbing Fixtures

Building	Building Area	Fixture Type	Men		Women	
			Required	Provided	Required	Provided
A – Maintenance, Operations, and Administration Building Occupancy: B	12,668 SF		Total Occupants = 192 occupants			
			96 Male Occupants		96 Female Occupants	
		Lavatories	3	**3**	3	**3**
		Water Closet	3	**2***	3	**3**
		Urinals	1	**1***	N/A	**N/A**
B – Fuel Canopy		Toilet Fixtures not required due to occupancy less than 15.				
B – Vehicle Wash Structure		Toilet Fixtures not required due to occupancy less than 15.				
B – Vehicle Wash Equip.		Toilet Fixtures not required due to occupancy less than 15.				

* Per 2902.1.1.2 Urinals. – Where urinals are provided, one water closet less than the number specified may be provided for each urinal installed, except the number of water closets in such cases shall nt be reduced to less than one quarter of the minimum specified.

CHAPTER 30: ELEVATORS AND CONVEYING SYSTEMS - ***NOT APPLICABLE TO THIS PROJECT***

Chapter 31:

3102 Membrane Structure: Building C will fall into this category and will comply with all requirements.

3102.3 Type of Construction: Non combustible membrane structures shall be classified as Type IIB construction and be covered by an approved membrane per 3102.3.1.

Note: This structure will comply with this requirement. The documentation will not be submitted until the contractor has selected a manufacturer.

INTERNATIONAL FIRE CODE
Chapter 5 Fire Service Features

503.1.1 Buildings & Facilities
Fire Apparatus Road within 150 feet of entire perimeter of the building.

Exception 1

Fire Marshal may increase the 150 feet where the building is equipped throughout with a fire sprinkler system.

Exception 2

Fire Marshal may increase the 150 feet where the road cannot be installed because of location on property, topography, etc. and approved alternative methods are provided.

Drive lanes to have a minimum inside turning radius of 35 feet, and must be at least 20 feet wide.

Gates to have a minimum clear dimension of 25 feet.

Appendix B – Fire Flow Requirements for Buildings

B105 Fire-Flow Requirements for Buildings

B105.2 Buildings other than one-and two-family dwellings
Fire Flow shall meet Table B105.1

Exception:

A reduction in required fire-flow of up to 75 percent as approved, is allowed when the building is provided with an approved automatic sprinkler system or enhanced fire alarm detection as noted below. The resulting fire-flow shall not be less than 1,500 gallons per minute for the prescribed duration as specified in Table B105.1.

Table B105.1 –

Bldg	Bldg Title	Constr. Type	Fire Flow Area (SF) (1)	Fire Flow (Gal/Min)	Required Fire Flow (2)	Available Fire Flow (*)	Duration (Hours)
A	Maint, Ops, & Admin	Type II-B	13,782SF	2,500 gpm	1,500 gpm*	1,105gpm*	2

Notes for Table B105.1:
(1) Fire Flow areas include total roof overhang area and mezzanines per IBC Chapter 5.
(2) Calculated using the 75% reduction allowance for sprinklers, our building does not comply with this.

*Note: Jefferson County is granting a reduction in the minimum fire flow, Per Rob Low's letter dated January 13, 2014. See below for text from waiver request letter.

This letter is in regard to the current and projected fire flow available to the site where this building is to be constructed. Based upon the flow test numbers provided by Jim Parker of Jefferson County Public Utility District #1 (PUD) current fire flow below, and the Quimper water system upgrades report (anticipated fire-flow below), both the current and projected upgrade to the public water mains serving this site provide a fire-flow below 1,500 g.p.m.

A fire flow of 1,500 g.p.m. is the minimum fire flow requirement after adjustments are taken for a fully sprinklered building per Table B105.1 and Section B105.2 of the International Fire Code. The proposed building will be of Type II-B non-combustible construction, with a gross square footage of 13,782 square feet. The building is a non-separated Group B and Group S-1 occupancy classification (Group S-1 controlling), with no permanent structures within 100 feet of the building and a sprinkler system designed for Ordinary Hazard Group 2 design density.

Per Table B105.1, the fire flow required is 3,250 g.p.m. for 3 hours. Section B105.2 indicates that a reduction of up to 75% may be taken if the building is fully sprinklered. This would conceivably allow a reduction in fire-flow to 812.5 g.p.m.

Preliminary calculations indicate that the current water system will support the sprinkler system design demand for this building, which is estimated to be approximately 345 g.p.m. if all the sprinklers in the remote operating area are simultaneously flowing. The total system demand estimate including hose allowance of 250 g.p.m. is projected to be approximately 595 g.p.m.

Once the PUD completes the upgrade, the available fire-flow is expected to be 1,105.85 g.p.m., which is greater than the projected combined sprinkler and hose stream demand, or the minimum fire flow demand of 812.5 g.p.m. with the 75% reduction being allowed.

Based upon the above, we request that the 1,500 g.p.m. minimum fire-flow requirement for this rural project be waived.

Current Fire-Flow	*Upgrade Anticipated Fire-Flow*
70 p.s.i. Static Pressure	*82.44 p.s.i. Static Pressure*
20 p.s.i Residual Pressure	*20.00 p.s.i. Residual Pressure*
500 g.p.m. flowing at 20 p.s.i.	*1,105.85 g.p.m. flowing at 20 p.s.i.*

Appendix C – Fire Hydrant Locations and Distribution

Table C105.1 Number & Distribution of Fire Hydrants
Note: All hydrants will meet the requirements of this chapter.

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STATE OF WASHINGTON

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Project Title
JEFFERSON TRANSIT AUTHORITY

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PORT TOWNSEND, WASHINGTON 98368

Project Numbers
2013-006

FTA PROJECT NUMBER: WA-0180-02

Issue & Revision Dates

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Sheet Title
CODE SHEET

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Sheet Number
G3.05

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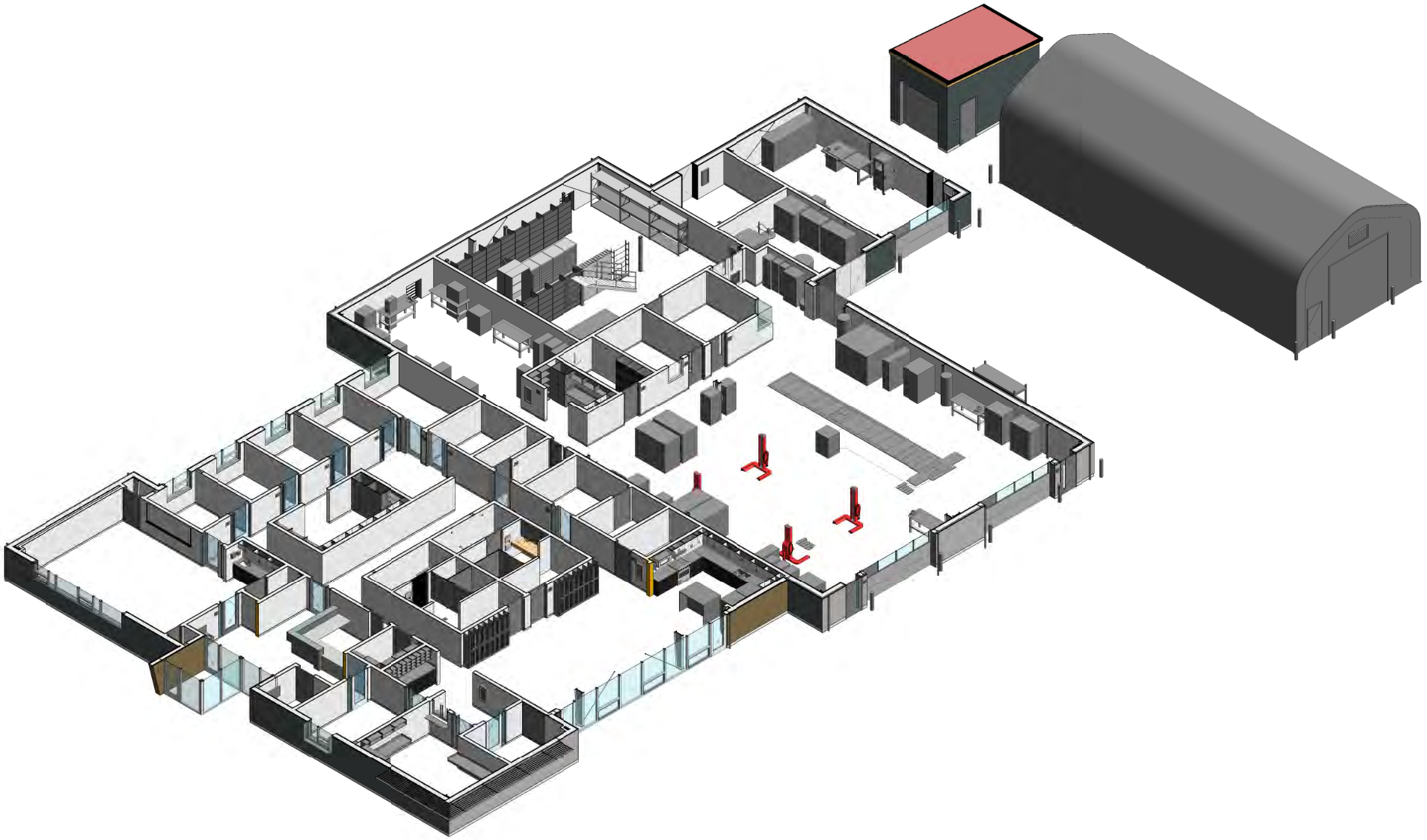

1 BLDGS A, C,& D 3D FP (FOR REFERENCE ONLY)

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Sheet Title
3D FLOOR PLAN FOR REFERENCE ONLY

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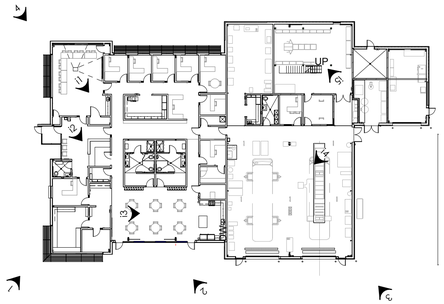
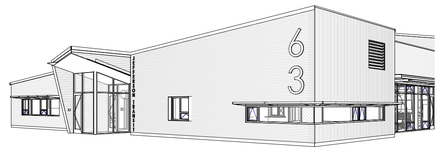


X BUILDING A FLOOR PLAN - VIEW REFERENCE POINTS
1/32" = 1'-0"



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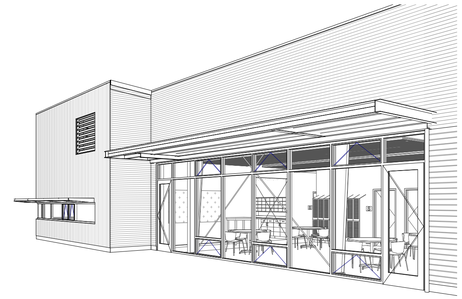
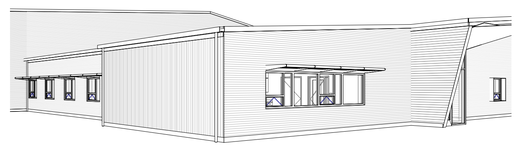


2 EXTERIOR PERSPECTIVE 2

3 EXTERIOR PERSPECTIVE 3



4 EXTERIOR PERSPECTIVE 4

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3D VIEWS BUILDING A EXTERIOR FOR REFERENCE ONLY

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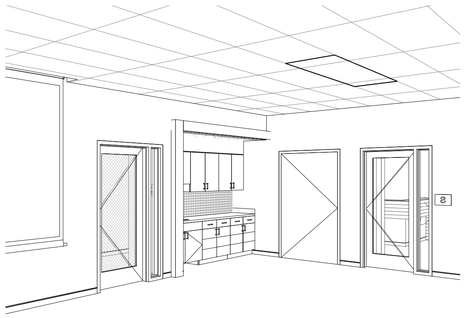
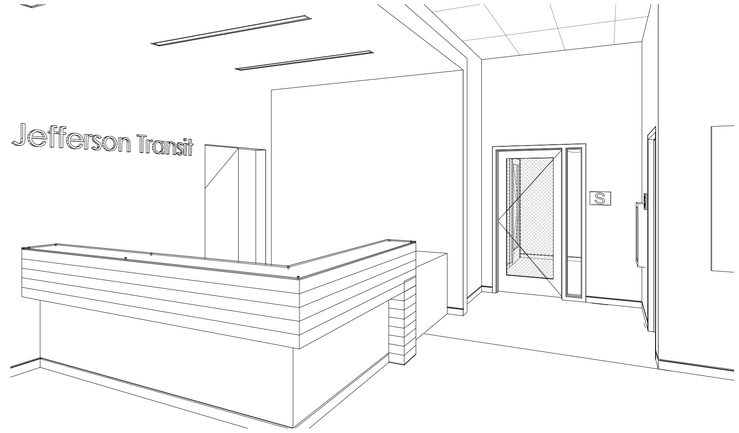


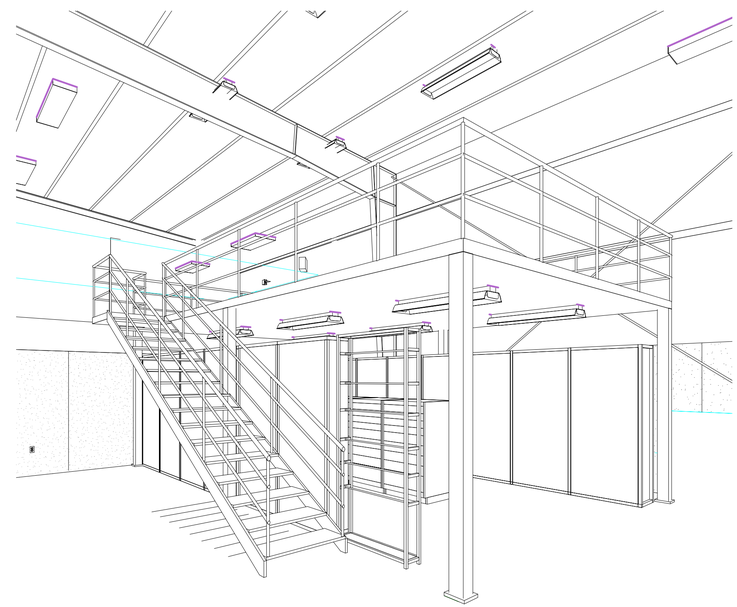
i1 INTERIOR 1 - BOARD ROOM



i2 INTERIOR 2 - LOBBBY/RECEPTION DESK

i3 INTERIOR 3 - COMMONS / KITCHEN

i4 INTERIOR 4 - MAINTENANCE BAYS



i5 INTERIOR 5 - PARTS ROOM WITH MEZZANINE

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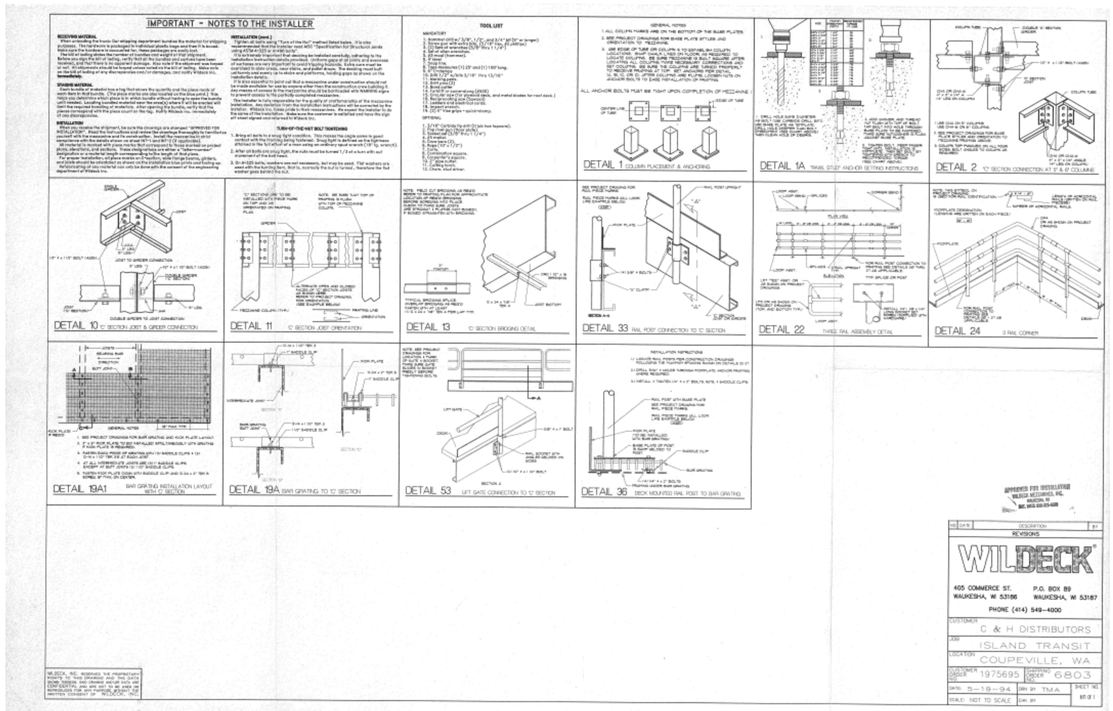
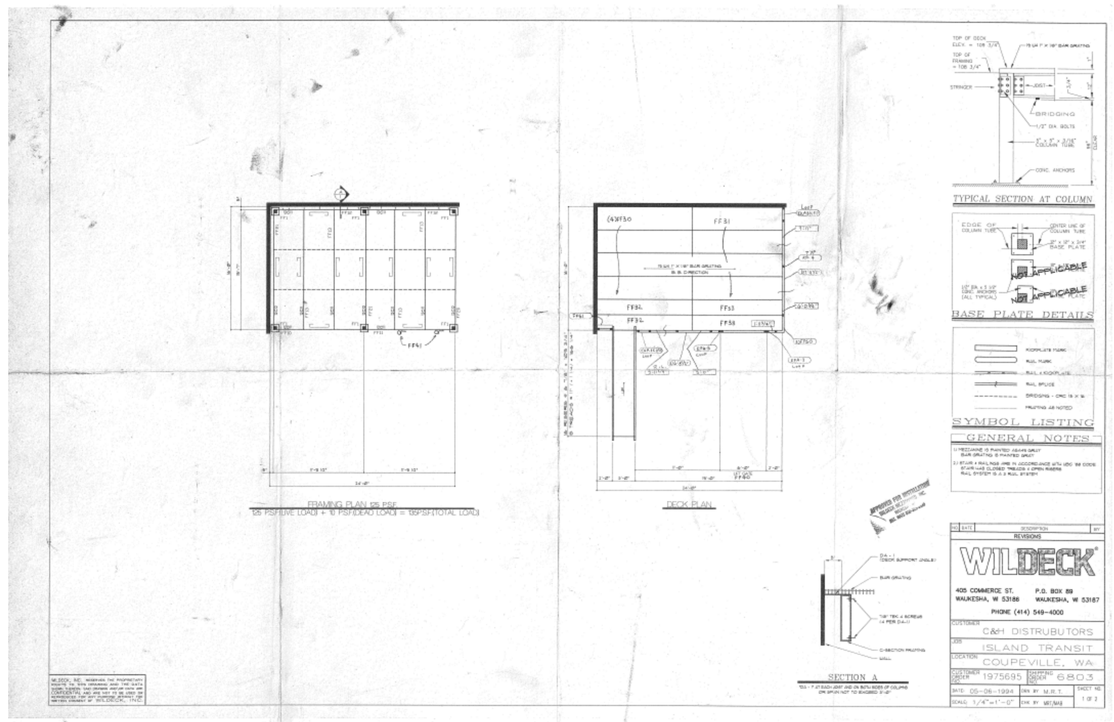
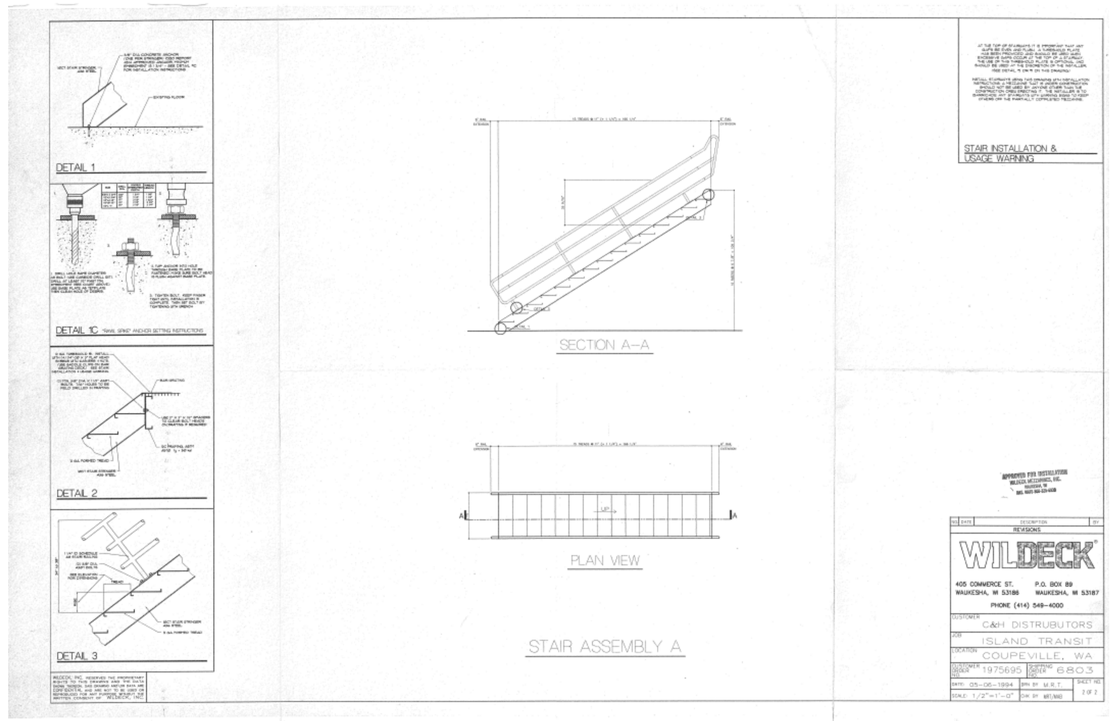




NOTE: SEE STRUCTURAL DRAWINGS FOR MODIFICATIONS TO THIS MEZZANINE SYSTEM



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WILDECK

S.O.# 6803 SHT. 5 OF 12

JOB ISLAND TRANSIT

NUMBER OF PACKAGES-QTY (1)

QTY/ PKG	HARDWARE PACKAGE DESCRIPTION (STAIR W/ NO COLUMNS)
4	3/8" X 3" RAWL SPIKE W/ NUT & FLAT WASHER
20	3/8" X 1-1/2 DIA. BOLT, NUT & LOCKWASHER
4	WM-SP1 (2" X 2" SPACER)
4	1" SADDLE CLIP
4	1/4" X 3" FLATHEAD BOLT,NUT & LOCKWASHER

NUMBER OF PACKAGES-QTY ( )

QTY/ PKG	HARDWARE PACKAGE DESCRIPTION (STAIR W/ COLUMNS)
14	3/8" X 3" RAWL SPIKE W/NUT & FLAT WASHER
22	3/8" X 1-1/2 DIA. BOLT, NUT & LOCKWASHER
4	WM-SP1 (2" X 2" SPACER)
4	1" SADDLE CLIP
4	1/4" X 3" FLATHEAD BOLT,NUT & LOCKWASHER

NUMBER OF PACKAGES-QTY ( )

QTY/ PKG	HARDWARE PACKAGE DESCRIPTION (PLATFORM W/ (4) COLUMNS)
20	3/8" X 3" RAWL SPIKE W/NUT & FLAT WASHER
24	3/8" X 1-1/2 DIA. BOLT, NUT & LOCKWASHER
4	WM-SP1 (2" X 2" SPACER)

NUMBER OF PACKAGES-QTY ( )

QTY/ PKG	HARDWARE PACKAGE DESCRIPTION (PLATFORM W/ (2) COLUMNS)
10	3/8" X 3" RAWL SPIKE W/NUT & FLAT WASHER
14	3/8" X 1-1/2 DIA. BOLT, NUT & LOCKWASHER
4	WM-SP1 (2" X 2" SPACER)

NUMBER OF PACKAGES-QTY ( )

QTY/ PKG	SWING GATE HARDWARE PACKAGE DESCRIPTION
3	3/8" X 1-1/2" DIA. BOLT NUT & LOCKWASHER
3	WM-SP1 (2" X 2" SPACER)
4	1" SADDLE CLIP
4	1/4" X 3" FLATHEAD BOLT,NUT & LOCKWASHER

NUMBER OF PACKAGES-QTY ( )

QTY/ PKG	LADDER HARDWARE PACKAGE DESCRIPTION
2	3/8" X 3" RAWL SPIKE W/NUT & FLAT WASHER
2	3/8" X 1-1/2 DIA. BOLT, NUT & LOCKWASHER
2	WM-SP1 (2" X 2" SPACER)
6	1" SADDLE CLIP
6	1/4" X 3" FLATHEAD BOLT,NUT & LOCKWASHER
2	RAIL BASE FLANGES

NUMBER OF PACKAGES-QTY ( )

QTY/ PKG	HARDWARE PACKAGE DESCRIPTION (STAIR W (2) BASE FLANGES W/ COLUMNS)
14	3/8" X 3" RAWL SPIKE W/NUT & FLAT WASHER
22	3/8" X 1-1/2 DIA. BOLT, NUT & LOCKWASHER
4	WM-SP1 (2" X 2" SPACER)
12	1" SADDLE CLIP
12	1/4" X 3" FLATHEAD BOLT,NUT & LOCKWASHER
2	RAIL BASE FLANGES
8	1/4" X 1-3/4" TAPCON PHILLIPS HD. ANCHOR

NUMBER OF PACKAGES-QTY ( )

QTY/ PKG	HARDWARE PACKAGE DESCRIPTION (STAIR W/ (2) BASE FLANGES NO COLUMNS)
4	3/8" X 3" RAWL SPIKE W/NUT & FLAT WASHER
20	3/8" X 1-1/2 DIA. BOLT, NUT & LOCKWASHER
4	WM-SP1 (2" X 2" SPACER)
12	1" SADDLE CLIP
12	1/4" X 3" FLATHEAD BOLT,NUT & LOCKWASHER
2	RAIL BASE FLANGES
8	1/4" X 1-3/4" TAPCON PHILLIPS HD. ANCHOR

NUMBER OF PACKAGES-QTY ( )

QTY/ PKG	HARDWARE PACKAGE DESCRIPTION (STAIR W (4) BASE FLANGES & NO COLUMNS)
4	3/8" X 3" RAWL SPIKE W/NUT & FLAT WASHER
20	3/8" X 1-1/2 DIA. BOLT, NUT & LOCKWASHER
4	WM-SP1 (2" X 2" SPACER)
12	1" SADDLE CLIP
12	1/4" X 3" FLATHEAD BOLT,NUT & LOCKWASHER
4	RAIL BASE FLANGES
8	1/4" X 1-3/4" TAPCON PHILLIPS HD. ANCHOR

NUMBER OF PACKAGES-QTY ( )

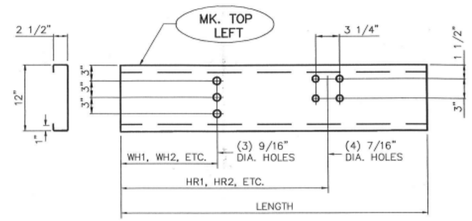
QTY/ PKG	HARDWARE PACKAGE DESCRIPTION (STAIR W (4) BASE FLANGES W/ COLUMNS)
14	3/8" X 3" RAWL SPIKE W/NUT & FLAT WASHER
22	3/8" X 1-1/2 DIA. BOLT, NUT & LOCKWASHER
4	WM-SP1 (2" X 2" SPACER)
12	1" SADDLE CLIP
12	1/4" X 3" FLATHEAD BOLT,NUT & LOCKWASHER
4	RAIL BASE FLANGES
8	1/4" X 1-3/4" TAPCON PHILLIPS HD. ANCHOR

FORM # 12

WILDECK

S.O.# 6803 SHT. 3 OF 12

JOB ISLAND TRANSIT



NOTE: 12C11

QTY / MARK	LENGTH	WH1	WH2	WH3	WH4	WH5	WH6	WH7	HR1	HR2	HR3
1 FF10	11'-1 3/4"	0'-1 1/4"	5'-7 5/8"	7'-6 1/8"	11'-0 1/2"				5'-2"	9'-8"	
1 FF11	11'-1 3/4"	0'-1 1/4"	5'-7 5/8"	3-10 3/16"	7'-6 1/8"	9'-8 9/16"	11'-0 1/2"		2'-7"	10'-2"	
2 FF12	11'-1 3/4"	0'-1 1/4"	5'-7 5/8"	7'-6 1/8"	11'-0 1/2"						
4 FF13	15'-1 7/8"	0'-1 1/4"	15'-0 5/8"								

FORM #12B

NOTE: SEE STRUCTURAL DRAWINGS FOR MODIFICATIONS TO THIS MEZZANINE SYSTEM

WILDECK

S.O.# 6803 SHT. 1 OF 12

JOB ISLAND TRANSIT

NO. PTD.	QTY	MARK	WIDTH	LENGTH	DESCRIPTION
	15	CHA	4"X3"X1/4" ANGLE XB 1/2"		COLUMN HANGER ANGLE
	9	JHA	5"X3"X1/4" ANGLE XB 1/2"		JOIST HANGER ANGLE
		CHA-6	4"X3"X1/4" ANGLE XB 1/2"		COLUMN HANGER ANGLE
		SHA	6"X3 1/2"X5/16" ANGLE XB 1/2"		JOIST HANGER ANGLE
	6	FF1		9'-0 3/4"	COLUMN ASSEMBLY
					12C11 FRAMING SEE 3 OF 12
					12C12 FRAMING SEE 4 OF 12
	14	DA-1			DECK SUPPORT ANGLE
	4	FF30	36"	12'-3 1/2"	19W4 1"x1/8" BAR GRATING
	4	FF31	36"	11'-7 13/16"	↓ ↓
	2	FF32	24"	12'-3 1/2"	
	2	FF33	24"	11'-7 13/16"	
	1	SUC-36	36"		UBC '88 STAIR /NO COL.
	1	SFP-33			OPTIONAL TOP TREAD
	2	CANS			ASA-49 GRAY TOUCH UP PAINT
	1	FF40		6'-0"	LIFTGATE (3) RAIL
	2	FF41			↓ SOCKET

FORM # 1

WILDECK

S.O.# 6803 SHT. 6 OF 12

JOB ISLAND TRANSIT

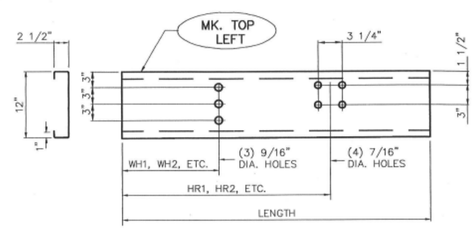
QUANTITY	DESCRIPTION
1	INSTALLATION MANUAL & DRAWINGS
1	NAME PLATE LOAD SIGN 125 P.S.F.
28	1/2" X 5 1/2" RAWL STUD
	3/4" X 5 1/4" RAWL BOLT
100	1/4"-20 X 1/4" SOCKET SET SCREW
10	1/4"-20 X 2" FLATHEAD BOLT, NUT, & LOCKWASHER
	3/8" X 2 1/2" FULLY THREADED A307 BOLT & NUT
	3/8" FENDER WASHER
175	1/2" X 1 1/2" A325 BOLT, NUT, FLAT & LOCKWASHER
	1/2" X 2" A325 BOLT, NUT, FLAT, & LOCKWASHER
	3/4" X 2" A325 BOLT, NUT, & FLAT WASHER
	10-16 X 1 13/16" TEK 3 PHILLIPS HEAD
150	12-14 X 1 1/2" TEK 3
100	12-24 X 7/8" TEK 4
	12-24 X 1 1/4" TEK 5
40	12-24 X 2" TEK 5
125	1" GRATING SADDLE CLIP ZINC PLATED
25	1 1/2" GRATING SADDLE CLIP ZINC PLATED
	POP RIVETS GSM-D-645
7	U-CLAMP HARDWARE PACKAGE INCLUDES (4) 3/8"-16 X 1 1/4" CAP SCREWS, NUTS & LOCKWASHERS PER PKG.
3	CRC 1.5-16 BRIDGING 16'-0" R.L.
	ELBOWS
	PLYWOOD

FORM #14

WILDECK

S.O.# 6803 SHT. 4 OF 12

JOB ISLAND TRANSIT



NOTE: 12C12

QTY / MARK	LENGTH	WH1	WH2	WH3	WH4	WH5	WH6	WH7	HR1	HR2	HR3
1 FF20	14'-8 3/4"	0'-1 1/4"	14'-7 1/2"						1'-0"	7'-5"	13'-10"
2 FF21	14'-8 3/4"	0'-1 1/4"	14'-7 1/2"								

FORM #12C

WILDECK

S.O.# 6803 SHT. 2 OF 12

JOB ISLAND TRANSIT

NO. PTD.	QTY	MARK	WIDTH	LENGTH	DESCRIPTION
	7	RP-4			G.R. POST
	4	LP-3			LOOP RAIL
	2	LP-T			TEE PIPE
	2	EPA-3			LOOP ASSEMBLY
	9	PS-1			PIPE SPLICE
	7				U CLAMP
	3	FF50			CORNER RAIL
	1	FF51			RAIL ASSEMBLY
	3	SIZE		6'-8 1/2"	1 1/4" PIPE RAIL
	3	↓		7'-11 1/2"	↓
	1	SIZE		9'-11"	2"x5" KICKPLATE
	1			6'-0 3/4"	
	1			1'-11 3/4"	
	1			5'-0"	
	1			5'-11 3/4"	5" ⊔ 2.C.

FORM # 2

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F.253.572.1445
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www.tcfarchitecture.com

TCF Architecture, PLLC

5617 REGISTERED ARCHITECT
RANDAL J. COOK
STATE OF WASHINGTON

BID SET

Project Title
JEFFERSON TRANSIT AUTHORITY

63 FOUR CORNERS RD
PORT TOWNSEND, WASHINGTON 98368

Project Numbers
2013-006

FTA PROJECT NUMBER: WA-0180-02

Issue & Revision Dates

08 07 13	100% SD
11 04 13	100% DD
12 30 13	AGENCY SET
02 05 13	BID SET

Sheet Title
EXISTING MEZZANINE AS BUILTS (FOR REFERENCE ONLY)

Drawn By: Author
Checked By: Checker

Sheet Number
G5.01

Sheet Number 16 Of 203

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2/15/2014 4:39:56 PM C:\Users\mark.hurley\Documents\306 Arch_Mark.Hurley.rvt

JEFFERSON TRANSIT AUTHORITY

MAINTENANCE, OPERATIONS AND ADMINISTRATION CENTER

PORT TOWNSEND, WASHINGTON

BID SET

CONSTRUCTION DOCUMENTS

FEBRUARY 05, 2014

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C2.01	EXISTING CONDITIONS PLAN
C2.02	TEMPORARY EROSION CONTROL AND DEMOLITION PLAN
C2.03	TEMPORARY EROSION CONTROL NOTES & DETAILS
C3.01	NORTH HORIZONTAL CONTROL, PAVING AND STRIPING PLAN
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C5.03	WATER PROFILES
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C5.05	WATER NOTES & DETAILS

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SHT 1 OF 4	SEPTIC DESIGN - PARNELL ENGINEERING
SHT 2 OF 4	SEPTIC DESIGN - PARNELL ENGINEERING
SHT 3 OF 4	SEPTIC DESIGN - PARNELL ENGINEERING
SHT 4 OF 4	SEPTIC DESIGN - PARNELL ENGINEERING

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CALL BEFORE YOU DIG

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT (800) 424–5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

VERTICAL DATUM:

NGVD 29 AS DETERMINED FROM TIES TO THE 1991 JEFFERSON COUNTY GPS PHOTO CONTROL SURVEY STATIONS #23 AND #9163.

BASIS OF BEARINGS:

WASHINGTON STATE COORDINATE SYSTEM, NORTH ZONE (NAD 1983/1986 ADJ.) AS DETERMINED FROM TIES TO THE 1991 JEFFERSON COUNTY GPS PHOTO CONTROL SURVEY STATIONS #23 AND #9163. DISTANCES SHOWN HEREON ARE GROUND DISTANCES.

ACCEPTED AS NOTED
JEFFERSON COUNTY PUBLIC WORKS
SVS. COUNTY ENGINEER

BY: _____
ACCEPTANCE

BY: _____
Expires 2 Years From Acceptance Date

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BID SET

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Issue & Revision Dates

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JAMES EDWARD GIBSON
STATE OF WASHINGTON
42010
REGISTERED
PROFESSIONAL ENGINEER
02/05/2014

Sheet Title
COVER SHEET

Drawn By: WGH
Checked By: JEG

Sheet Number
C1.00

Sheet Number 17 Of 48

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Feb 14, 2014 12:18:48am – User tindeh
N:\PROJECTS\1822 TCF ARCHITECTURE\1822.01 JTA ADMINISTRATION AND MAINTENANCE FACILITY\PHASE 40 – CONSTRUCTION DOCUMENTS AND PERMIT

SCJ ALLIANCE
GENERAL CONSTRUCTION NOTES:

1. ALL WORK, WORKMANSHIP AND MATERIALS FOR THIS PROJECT SHALL MEET OR EXCEED THE MOST CURRENT VERSION OF THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION. IF THERE IS A CONFLICT BETWEEN THE SPECIFICATIONS, THE MOST RESTRICTIVE REFERENCE SHALL BE ADHERED TO.

2. ALL GOVERNMENTAL SAFETY REGULATIONS SHALL BE STRICTLY ADHERED TO INCLUDING OSHA, WISHA AND WASHINGTON DEPARTMENT OF LABOR AND INDUSTRY.

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DULY NOTIFY THE COUNTY IN ADVANCE OF THE COMMENCEMENT OF ANY AUTHORIZED WORK AND TO SCHEDULE REQUIRED INSPECTIONS. ANY REQUIRED INSPECTION TEST WILL BE PERFORMED AT THE CONTRACTOR'S EXPENSE.

4. THE CONTRACTOR SHALL PROVIDE A TWO-YEAR WARRANTY ON ALL WORKMANSHIP AND MATERIAL FOLLOWING ACCEPTANCE OF THE PROJECT BY THE OWNER.

5. THE APPROVAL OF THESE PLANS BY JEFFERSON COUNTY DOES NOT RELIEVE THE CONTRACTOR OR DEVELOPER OF THE RESPONSIBILITY TO COMPLY WITH THE REQUIREMENTS OF OTHER GOVERNING AGENCIES.

6. CAUTION – NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON THE PROJECT SURVEY AND OTHER RECORDS OF UTILITIES. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL CALL 1-800-424-5555 48 HOURS PRIOR TO PLANNED EXCAVATIONS.

7. THE DESIGN SHOWN IS BASED UPON THE ENGINEER'S UNDERSTANDING OF THE EXISTING CONDITIONS. THE EXISTING CONDITIONS SHOWN ON THIS PLAN SHEET ARE BASED UPON COMPILED SURVEY DATA. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO BIDDING THE PROPOSED WORK IMPROVEMENTS. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER OR OWNER'S REPRESENTATIVE.

8. EXISTING UTILITIES ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY EXACT LOCATION, DIA, LENGTH, CONDITION, PIPE TYPE, SLOPE AND VERTICAL AND HORIZONTAL ALIGNMENT OF THE EXISTING ALIGNMENT OF THE PROPOSED POINTS OF CONNECTION PRIOR TO CONNECTION AND REPORT ANY DISCREPANCIES TO ENGINEER PRIOR TO CONSTRUCTION.

9. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY LOCAL, STATE, AND FEDERAL APPROVALS AND PERMITS.

10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A COPY OF THE APPROVED PLANS, SPECIFICATIONS, AND CONTRACT DOCUMENTS AT THE CONSTRUCTION SITE AT ALL TIMES.

11. THE CONTRACTOR SHALL PROVIDE SLOPE PROTECTION FOR SLOPES OF 5:1 OR GREATER ACCORDING TO AGC STANDARD GUIDELINES AND BEST MANAGEMENT PRACTICES (BMP'S).

12. THE CONTRACTOR SHALL MAINTAIN EROSION CONTROL FACILITIES IN ACCORDANCE WITH THE DEPARTMENT OF ECOLOGY STORM WATER MANUAL, AND THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP).

13. THE CONTRACTOR SHALL SAFELY MAINTAIN TRAFFIC AND CONTINUOUS ACCESS TO PRIVATE AND/OR PUBLIC PROPERTY.

14. CONSTRUCTION SIGNING AND TRAFFIC CONTROL SHALL BE PER THE CURRENT COPY OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

15. ALL VEHICLES AND EQUIPMENT SHALL BE KEPT WITHIN THE WORK AREAS ESTABLISHED FOR THAT WORK SHIFT UNLESS TRAVELING TO OR FROM THE SITE. UNDER NO CIRCUMSTANCES SHALL VEHICLES BE PARKED OR EQUIPMENT BE STORED OUTSIDE OF THESE AREAS.

16. OTHER CONSTRUCTION PROJECTS MAY OCCUR NEAR THE PROJECT SITE AND MAY BE IN PROGRESS CONCURRENT WITH THE PROJECT. THE CONTRACTOR SHALL COOPERATE AS NECESSARY AND NOT INTERFERE OR HINDER THE PROGRESS OR COMPLETION OF WORK BEING PERFORMED BY OTHER CONTRACTORS.

17. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHOWN ON THESE DRAWINGS AND TO OBTAIN ACCEPTANCE BY JEFFERSON COUNTY AND THE PROJECT OWNER.

18. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL "PRE CONSTRUCTION" STATE OR BETTER.

19. DRIVEWAY ACCESS AND UTILITY SERVICE TO EXISTING HOMES AND BUSINESSES SHALL BE MAINTAINED AT ALL TIMES.

CALL BEFORE YOU DIG
THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT (800) 424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

DRAFTING SYMBOLS

XX-A	.....SECTION NUMBER
XX-01	.....SHEET NUMBER SECTION IS LOCATED ON

CONSTRUCTION NOTE SYMBOLS..... XX / XX / X

ABBREVIATIONS FOR CIVIL DRAWINGS ONLY

&	AND
Ð	ANGLE
±	APPROXIMATELY
@	AT
℄	CENTERLINE
°	DEGREE
=	EQUALS
'	FOOT
>	GREATER THAN
"	INCH
#	NUMBER
%	PERCENT
AC	ASPHALTIC CONCRETE
ADD'L	ADDITIONAL
ADJT	ADJACENT
AFF	ABOVE FINISH FLOOR
AP	ANGLE POINT
APPROX	APPROXIMATE
ARCH	ARCHITECT
ATB	ASPHALT TREATED BASE COURSE
AVE	AVENUE
BC	BOTTOM OF CURB ELEVATION
BCR	BEGIN CURB RETURN
BFV	BUTTERFLY VALVE
BGS	BELOW GROUND SURFACE
BLK	BLOCK(S)
BLDG	BUILDING
BM	BENCHMARK
BVC	BEGIN VERTICAL CURB
BW	BOTTOM OF WALL ELEVATION
C	CONDUIT
CB	CATCH BASIN
CF	CUBIC FEET
CIRC	CIRCUIT, CIRCULA(R, TION)
CIP	CAST-IN-PLACE
CIP MON	CAST-IN-PLACE MONUMENT
CJ	CENTER JOINT
℄	CENTER LINE
CL	CROWNLINE
CLR	CLEAR
CO	CLEANOUT
COMM	COMMUNICATION
COMPT	COMPACTED
CONC	CONCRETE
CONST	CONSTRUCT
CONT	CONTINU(E, ED, OUS, ATION)
COORD	COORDINATE
CSBC	CRUSHED SURFACING BASE COURSE
CSTC	CRUSHED SURFACING TOP COURSE
CULV	CULVERT
CU YD	CUBIC YARD
D/W	DRIVEWAY
DEF	DEFLECTION
DEG	DEGREE
DEMO	DEMOLISH/DEMOLITION
DIA	DIAMETER
DIM	DIMENSION(S)
DIP	DUCTILE IRON PIPE
DR	DRIVE
DWG(S)	DRAWING(S)
E	EAST OR ELECTRICAL
EA	EACH
ECR	END CURB RETURN
EHH	ELECTRICAL HANDHOLE
EL, ELEV	ELEVATION
ELEC	ELECTRIC(AL)
ENGR	ENGINEER
EOP	EDGE OF PAVEMENT
EQ	EQUAL(LY)
EQUIP	EQUIPMENT
ESMT	EASEMENT
EVC	END VERTICAL CURVE
EX, EXIST	EXISTING
EXP	EXPANSION
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FES	FLARED END SECTION
FF	FINISH FLOOR
FG	FINISH GRADE ELEVATION
FH	FIRE HYDRANT
FIN	FINISH(ED)
FL	FIRE LINE/FLANGE
FT	FOOT/FEET
G	GAS
GALV	GALVANIZED
GB	GRADE BREAK
GRND	GROUND
GV	GATE VALVE
HH	HANDHOLE
HP	HIGH POINT ELEVATION
HORIZ	HORIZONTAL
HT	HEIGHT
IE	INVERT ELEVATION
IN	INCH
JB, J-BOX	JUNCTION BOX
JT	JOINT TRENCH
kV	KILOVOTS
kW	KILOWATT
KWH	KILOWATT HOURS
L	LENGTH
LB(S)	POUND(S)
LF	LINEAR FEET
LP	LOW POINT ELEVATION
LT	LEFT
MAX	MAXIMUM
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM, MINUTE
MISC	MISCELLANEOUS
MON	MONUMENT IN CASE
N	NORTH, NORTHING
N/A	NOT APPLICABLE
NE	NORTHEAST
NEMA	NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION
NIC	NOT IN CONTRACT
NO, No	NUMBER
NTS	NOT TO SCALE
NW	NORTHWEST
OC, oc	ON CENTER
OD	OUTSIDE DIAMETER
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
P	POWER, POWER VAULT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PED	PEDESTAL
PI	POINT OF INTERSECTION
ℙ	PROPERTY LINE
POC	POINT OF CONNECTION
PP	POWER POLE
PRC	POINT OF REVERSE CURVATURE
PROP	PROPERTY
PSE	PUGET SOUND ENERGY
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
PVMT	PAVEMENT
PWR	POWER
QTY	QUANTITY
R	RADIUS
RD	ROAD, ROADWAY
REF	REFERENCE
REINF	REINFORC(E, ED, ING, MENT)
REQ'D	REQUIRED
REV	REVISION
RIM	STRUCTURE RIM ELEVATION
RT	RIGHT
R/W, ROW	RIGHT OF WAY
S	SOUTH OR SLOPE
SCHED	SCHEDULE
SD, SDMH	STORM DRAIN, STORM DRAIN MANHOLE
SE	SOUTHEAST
SECT	SECTION(S)
SHT	SHEET
SP	SPRINKLER
SQ	SQUARE
SQ FT	SQUARE FEET
SQ IN	SQUARE INCH
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
ST	STREET
STA	STATION
STD	STANDARD
STRUCT	STRUCTURE(E, AL)
SW	SOUTHWEST
SYS	SYSTEM
T	TELEPHONE OR TELEPHONE VAULT
TBD	TO BE DETERMINED
TBM	TEMPORARY BENCH MARK
TC	TOP OF CURB ELEVATION
TELE	TELEPHONE
TEMP	TEMPORARY
TW	TOP OF WALL ELEVATION
TP, T/P	TOP OF PIPE
TYP	TYPICAL
UDG	UNDERGROUND
VAP	VERTICAL ANGLE POINT
VC	VERTICAL CURVE
VERT	VERTICAL
VOL	VOLUME
W	WEST, WIDTH, WIDE OR WATER
W/	WITH
W/O	WITHOUT
WM	WATER MAIN OR WILLAMETTE MERIDIAN
WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
WV	WATER VALVE
XFMR	TRANSFORMER

ACCEPTED AS NOTED
JEFFERSON COUNTY PUBLIC WORKS
SVS. COUNTY ENGINEER

BY:_____

ACCEPTANCE

BY:_____

Expires 2 Years From Acceptance Date

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BID SET

Project Title
JEFFERSON TRANSIT AUTHORITY

63 FOUR CORNERS RD
PORT TOWNSEND, WASHINGTON 98368

Project Numbers

FTA PROJECT NUMBER: WA-0180-02

Issue & Revision Dates

08 07 13	100% SD
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GENERAL NOTES AND LEGEND

Drawn By WGH
Checked By JEG

Sheet Number
C1.01

Sheet Number 12 Of 18

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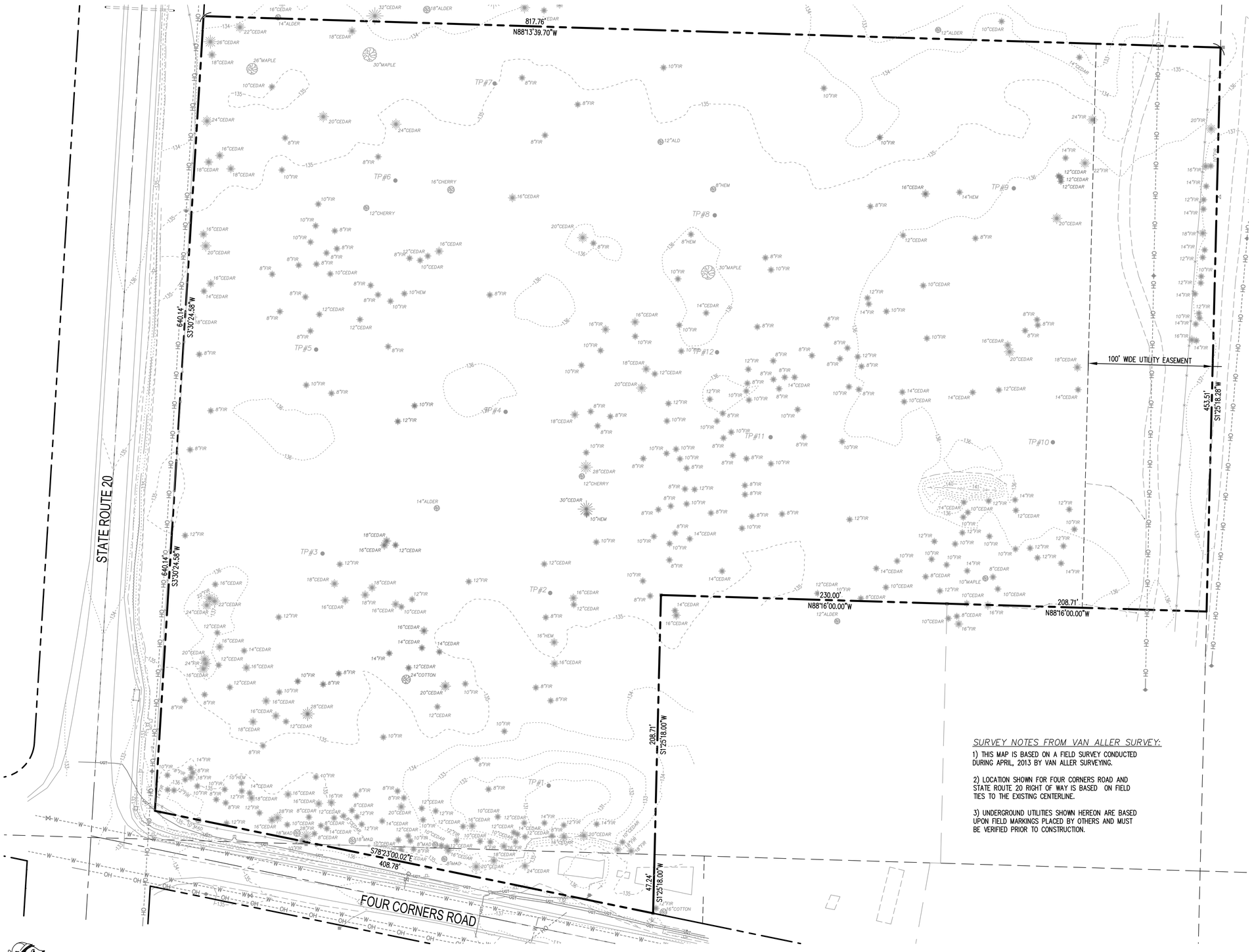
SEC. 33, T30N, R1W, W.M.



0 40 80
SCALE IN FEET

LEGEND:

- BOUNDARY LINE
- PARCEL LINE
- SECTION SUBDIVISION LINE
- EDGE OF RIGHT OF WAY
- RIGHT-OF-WAY CENTERLINE
- EASEMENT LINE
- EDGE OF PAVEMENT
- ASBUILT CENTERLINE
- EDGE OF GRAVEL
- FOG LINE
- DITCH LINE
- EDGE OF CONCRETE
- BUILDING LINE
- FENCE LINE
- EDGE OF DIRT ACCESS RD.
- UGT — UNDERGROUND TELEPHONE
- OH — OVERHEAD POWER LINE
- W — UNDERGROUND WATER LINE
- CULVERT LINE
- GROUND BREAK LINE
- TREE/BRUSH LINE
- 135 — INDEX CONTOUR (5 FOOT INTERVAL)
- CONTOUR (1 FOOT INTERVAL)
- CONIFER TREE, (TRUNK DIAMETER AND SPECIES IF KNOWN)
- DECIDUOUS TREE, (TRUNK DIAMETER AND SPECIES IF KNOWN)
- TELEPHONE RISER
- STORM CATCH BASIN
- STREET LIGHT
- UTILITY POLE
- UTILITY POLE ANCHOR
- SIGN
- FIRE HYDRANT
- WATER VALVE
- WATER METER
- TP# TEST PIT
- SURVEY MONUMENT AS NOTED

SURVEY NOTES FROM VAN ALLER SURVEY:

1) THIS MAP IS BASED ON A FIELD SURVEY CONDUCTED DURING APRIL, 2013 BY VAN ALLER SURVEYING.

2) LOCATION SHOWN FOR FOUR CORNERS ROAD AND STATE ROUTE 20 RIGHT OF WAY IS BASED ON FIELD TIES TO THE EXISTING CENTERLINE.

3) UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON FIELD MARKINGS PLACED BY OTHERS AND MUST BE VERIFIED PRIOR TO CONSTRUCTION.

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT (800) 424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

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JAMES EDWARD JOHNSON
STATE OF WASHINGTON
40018
REGISTERED
PROFESSIONAL ENGINEER
02/05/2014

Sheet Title
EXISTING CONDITIONS PLAN

Drawn By WGH
Checked By JEG

Sheet Number
C2.01

Sheet Number 19 of 48

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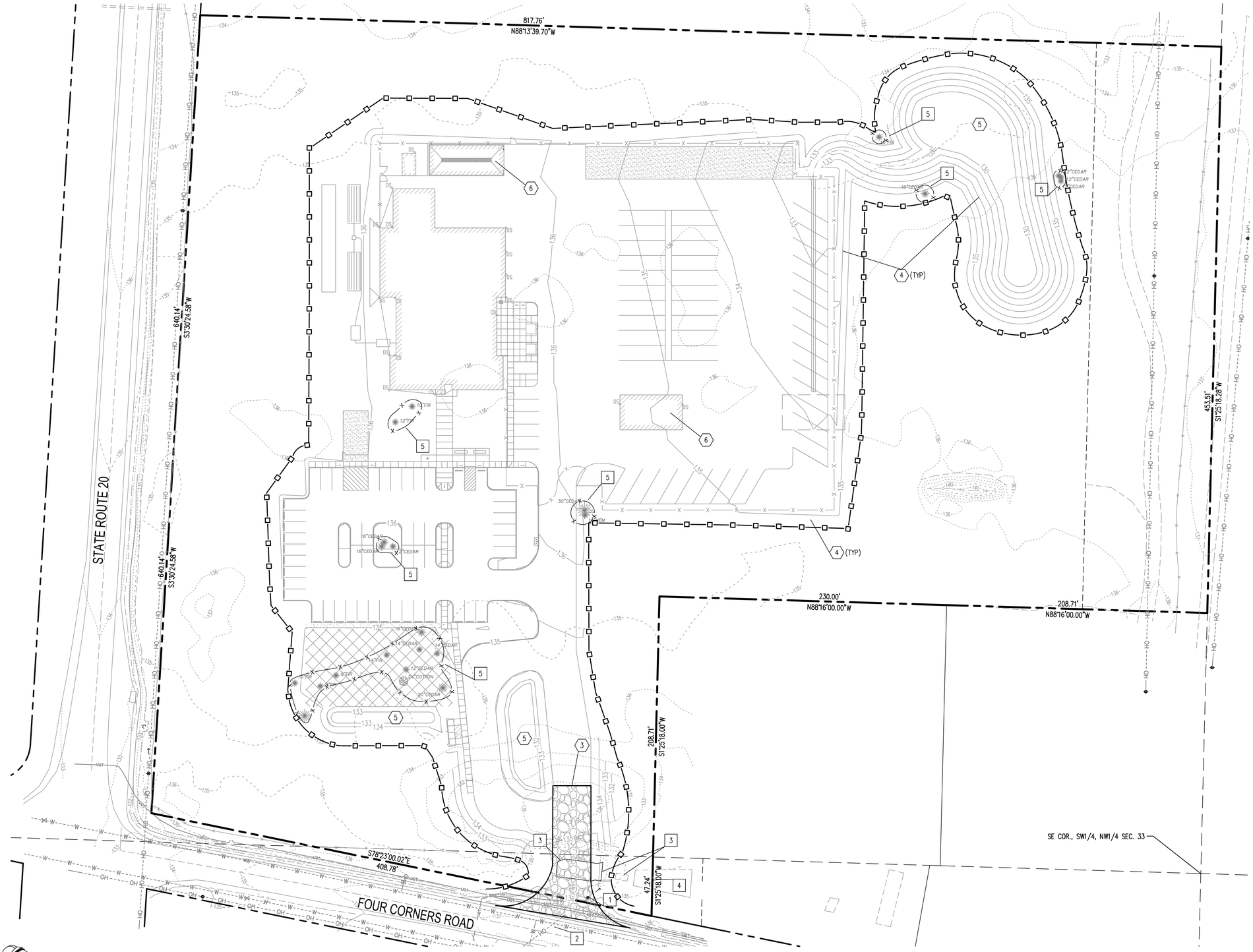
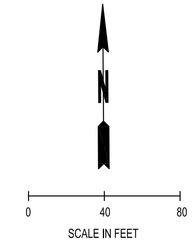
SEC. 33, T30N, R1W, W.M.





LEGEND:

- STABILIZED CONSTRUCTION ENTRANCE
- SILT FENCE/CLEARING LIMITS
- TREE PROTECTION FENCING
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR

X DEMOLITION CONSTRUCTION NOTES

1. REMOVE OR RELOCATE EXISTING UTILITY POLE. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER.
2. REMOVE OR RELOCATE OVERHEAD UTILITY LINES. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER.
3. REMOVE EXISTING CONCRETE PAD
4. SAWCUT CONCRETE PAD @ PROPERTY LINE.
5. INSTALL TREE PROTECTION FENCE AROUND TREES TO BE SAVED BEFORE LAND CLEARING OPERATIONS BEGIN. SEE SHT C2.03 FOR DETAILS.
6. ALL STRUCTURES, TREES, UTILITIES AND ANY OBJECTS LOCATED WITHIN THE CLEARING LIMITS TO BE REMOVED. COORDINATE WITH ARCHITECTURAL PLANS FOR TREES TO BE SAVED/REMOVED.

XX TESC CONSTRUCTION NOTES

1. SILT FENCE, SEE SHEET C2.03 FOR DETAIL. SILT FENCE LOCATION ALSO MARKS CLEARING LIMITS. SILT FENCE IS NOT NECESSARY AT ALL LOCATIONS. COORDINATE WITH INSPECTOR FOR EXACT LOCATIONS.
2. NOT USED
3. INSTALL CONSTRUCTION ENTRANCE. SEE SHEET C2.03 FOR DETAIL
4. PROPOSED GRADING, SEE SHEETS 4.01 AND 4.02 FOR MORE DETAIL
5. PROPOSED POND, SEE SHEETS 4.01, 4.02, AND 4.03 FOR MORE DETAILS.
6. INSTALL STORM DRAIN INLET PROTECTION. SEE SHEET C2.03 FOR DETAIL OR CONSULT MANUFACTURER FOR RECOMMENDED METHODS.

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT (800) 424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

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BASIS OF BEARINGS:

WASHINGTON STATE COORDINATE SYSTEM, NORTH ZONE (NAD 1983/1986 ADJ.) AS DETERMINED FROM TIES TO THE 1991 JEFFERSON COUNTY GPS PHOTO CONTROL SURVEY STATIONS #23 AND #9163. DISTANCES SHOWN HEREON ARE GROUND DISTANCES.

ACCEPTED AS NOTED
JEFFERSON COUNTY PUBLIC WORKS
SVS. COUNTY ENGINEER

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Project Title
JEFFERSON TRANSIT AUTHORITY

63 FOUR CORNERS RD
PORT TOWNSEND, WASHINGTON 98368

Project Numbers
FTA PROJECT NUMBER: WA-0180-02

Issue & Revision Dates

08 07 13	100% SD
11 04 13	100% DD
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02 05 13	BID SET

02/05/2014

Sheet Title
TEMPORARY EROSION CONTROL AND DEMOLITION PLAN

Drawn By: WGH
Checked By: JEG

Sheet Number
C2.02

Sheet Number 20 of 103

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Feb 14, 2014 12:21:07pm - User lindah
N:\PROJECTS\1822 TCF ARCHITECTURE\1822.01 JTA ADMINISTRATION AND MAINTENANCE FACILITY\PHASE 40 - CONSTRUCTION DOCUMENTS AND PERMIT

SCJ ALLIANCE
GENERAL EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL FOLLOW EROSION CONTROL PRACTICES OUTLINED IN THE WASHINGTON STATE DEPARTMENT OF ECOLOGY STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON AND THE SWPPP.

2. EROSION CONTROL MEASURES ARE NOT LIMITED TO THE ITEMS ON THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. NO SILTATION OF EXISTING OR PROPOSED DRAINAGE FACILITIES SHALL BE ALLOWED. CARE SHALL BE TAKEN TO PREVENT MIGRATION OF SILTS TO OFF-SITE PROPERTIES.

3. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE BEGINNING OF CONSTRUCTION. THE PROJECT ENGINEER AND THE REVIEWING AGENCY SHALL INSPECT AND APPROVE THE INSTALLATION OF EROSION CONTROL MEASURES PRIOR TO BEGINNING CONSTRUCTION.

   A. INSTALL INLET SEDIMENTATION AS SPECIFIED AT ALL CATCH BASIN LOCATIONS IMMEDIATELY UPON ARRIVAL AT PROJECT/CONSTRUCTION SITE.

   B. STABILIZED CONSTRUCTION ENTRANCE SHALL CONFORM TO DETAIL ON SHEET EC-02, STABILIZED CONSTRUCTION ENTRANCE. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT ALL INGRESS/EGRESS POINTS TO CONSTRUCTION SITE.

4. ALL EROSION/SEDIMENTATION CONTROL FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL CONSTRUCTION IS COMPLETE AND THE SITE HAS BEEN STABILIZED. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION, MAINTENANCE, REPLACEMENT, AND ADDITIONS TO THE SYSTEM AS REQUIRED BY THE OWNER, ENGINEER, OR THE CITY OF UNION GAP.

5. THE CONTRACTOR SHALL MAKE A DAILY SURVEILLANCE OF ALL EROSION CONTROL MEASURES AND MAKE ANY NECESSARY REPAIRS OR ADDITIONS TO THE EROSION CONTROL MEASURES AS REQUIRED. THE CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION CONTROL MEASURES AS DETERMINED NECESSARY BY THE INSPECTOR AND/OR PROJECT ENGINEER. FAILURE TO COMPLY WITH ALL LOCAL AND STATE EROSION CONTROL REQUIREMENTS MAY RESULT IN CIVIL PENALTIES BEING LEVIED AGAINST THE CONTRACTOR.

6. PRIOR TO CLEARING AND GRADING THE CONTRACTOR SHALL PROTECT TREES TO BE SAVED WITH HIGH VISIBILITY FENCING AT THE ROOT PROTECTION DELINEATION OR OTHERWISE PROTECTED AS DIRECTED BY THE ENGINEER, CITY STAFF, OR OWNERS REPRESENTATIVE. CLEARING AND GRADING LIMITS SHALL BE STAKED IN THE FIELD PRIOR TO EXCAVATION.

7. ALL STORM DRAINAGE INLETS RECEIVING RUNOFF FROM THE PROJECT DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER WILL BE FILTERED BEFORE ENTERING THE CONVEYANCE SYSTEM.

8. ALL OFF-SITE CATCH BASINS IMMEDIATELY ADJACENT TO THE PROPOSED SITE SHALL BE PROTECTED FROM SILTATION.

9. THE CONSTRUCTION OF TRENCHES (E.G., PIPES, UNDERGROUND UTILITY LINES AND STRUCTURES) SHALL BE SUBJECT TO THE FOLLOWING CRITERIA:

   A. NO MORE THAN 300 FEET OF TRENCH ON A DOWNSLOPE OF MORE THAN FIVE PERCENT SHALL BE OPENED AT ONE TIME.

   B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.

10. TRENCH DEWATERING DEVICES SHALL BE DISCHARGED IN A MANNER THAT WILL NOT ADVERSELY AFFECT STREAMS, DRAINAGE SYSTEMS, OR OFF-SITE PROPERTIES.

11. TRACKING OF SOIL, MUD, OR DEBRIS OFF-SITE IS NOT ALLOWED. SOIL, MUD, OR DEBRIS TRACKED ONTO A PUBLIC ROADWAY, SHALL BE REMOVED BY THE END OF THAT WORKING DAY. TO PREVENT THE TRACKING OF SOIL, MUD, OR DEBRIS ONTO PUBLIC ROADWAYS, SWEEPING OR WASHING OF THE VEHICLE'S TIRES MAY BE REQUIRED PRIOR TO ENTERING A PUBLIC ROADWAY.

12. ALL DISTURBED AREAS SHALL BE HYDROSEEDED WITH EROSION CONTROL SEED MIX. INCLUDING BUT NOT LIMITED TO ROADWAY EMBANKMENTS, SHOULDERS, UTILITY EASEMENTS, STAGING AREAS AND CUT/FILL SLOPES.

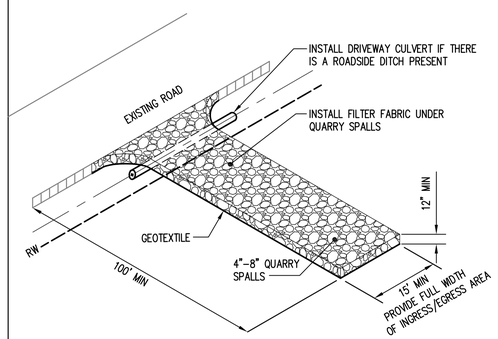
13. ALL SEEDED OR SODDED AREAS SHALL BE CHECKED REGULARLY TO ENSURE VEGETATIVE COVERAGE IS COMPLETE. AREAS SHALL BE REPAIRED, RESEEDED, AND FERTILIZED AS REQUIRED.

14. DROP-IN CATCH BASIN FILTERS MAY BE USED IN PLACE OF OTHER STANDARD INLET PROTECTION PRACTICES. THIS INLET PROTECTION TECHNOLOGY CAN BE USED IN SITUATIONS WHERE RIGHT-OF-WAY FLOODING WOULD BE PROBLEMATIC.

15. TO MAINTAIN FUNCTION, THE CONTRACTOR SHALL REMOVE AND CLEAN OR REPLACE FILTERS AFTER EACH STORM EVENT. CONTACT THE JURISDICTION TO DETERMINE ITS ACCEPTANCE OF SPECIFIC FILTER PRODUCTS, PRIOR TO INSTALLATION.

16. NO MATERIAL SHALL BE STOCKPILED ON PAVEMENT WITHOUT AUTHORIZATION FROM THE PROJECT ENGINEER OR OWNERS REPRESENTATIVE WHICH WILL BE CONDITIONAL ON IMPLEMENTATION OF A PROCEDURE TO PREVENT SEDIMENT TRANSPORT.

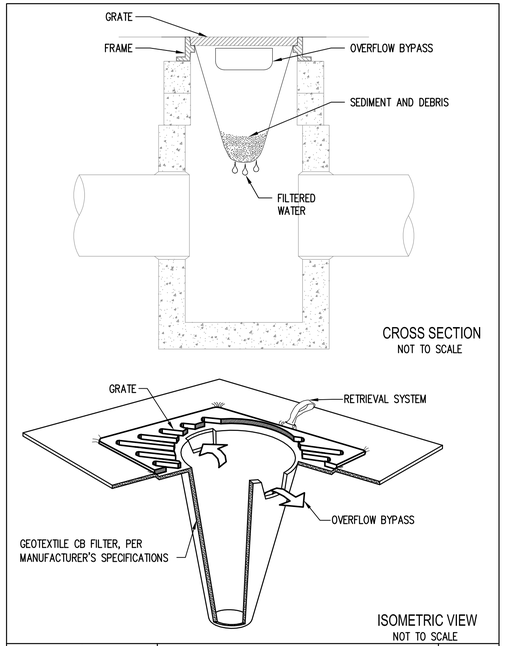
17. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED OR AFTER THE MEASURES ARE NO LONGER NEEDED. SEDIMENT COLLECTED IN TRAPS, PONDS, OR SILT FENCE SHALL BE REMOVED AND DISPOSED IN AN APPROVED MANNER OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM SEDIMENT REMOVAL SHALL BE PERMANENTLY STABILIZED WITHIN SEVEN (7) DAYS.



NOTES:
1. DRIVEWAY SHALL MEET THE REQUIREMENTS OF THE PERMITTING AGENCY.
2. IT IS RECOMMENDED THAT THE ENTRANCE BE CROWNED SO THAT RUNOFF DRAINS OFF THE PAD

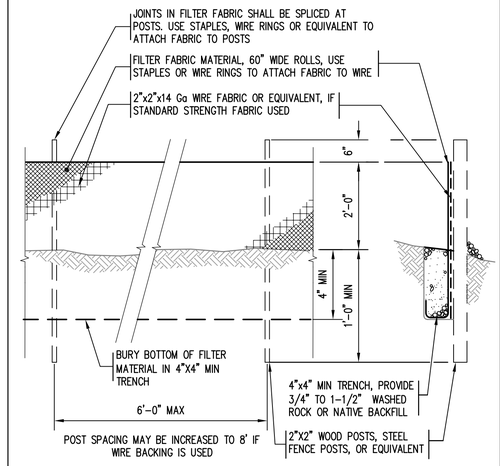
SCJ ALLIANCE CONSULTING SERVICES | REFERENCE: STORMWATER DRAINAGE MANUAL FOR CITY OF OLYMPIA, WASHINGTON / 2009 | BMP C105

DATE: 05/2013 | STABILIZED CONSTRUCTION ENTRANCE



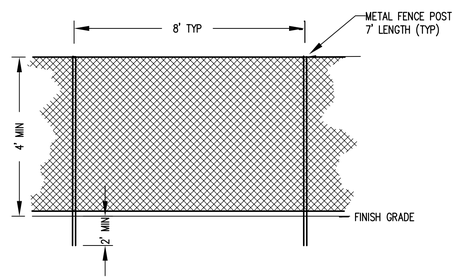
SCJ ALLIANCE CONSULTING SERVICES | REFERENCE: STORMWATER DRAINAGE MANUAL FOR CITY OF OLYMPIA, WASHINGTON / 2009 | BMP C220

DATE: 05/2013 | STORM DRAIN INLET PROTECTION w/ CB FILTERS



SCJ ALLIANCE CONSULTING SERVICES | REFERENCE: STORMWATER DRAINAGE MANUAL FOR CITY OF OLYMPIA, WASHINGTON / 2009 | BMP C233

DATE: 05/2013 | SILT FENCE



TREE PROTECTION FENCING
NTS

CALL BEFORE YOU DIG
THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT (800) 424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

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Project Title
JEFFERSON TRANSIT AUTHORITY

63 FOUR CORNERS RD
PORT TOWNSEND, WASHINGTON 98368

Project Numbers
FTA PROJECT NUMBER: WA-0180-02

Issue & Revision Dates

08 07 13	100% SD
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Sheet Title
TEMPORARY EROSION CONTROL NOTES & DETAILS

Drawn By: WGH
Checked By: JEG

Sheet Number
C2.03

Sheet Number 21 of 28

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LEGEND:

- CRUSH ROCK SURFACING
- PORTLAND CEMENT CONCRETE PAVEMENT, SEE DETAIL ON C3.03
- CONCRETE BARRIER CURB
- CONCRETE MONOLITHIC CURB

GENERAL NOTES:

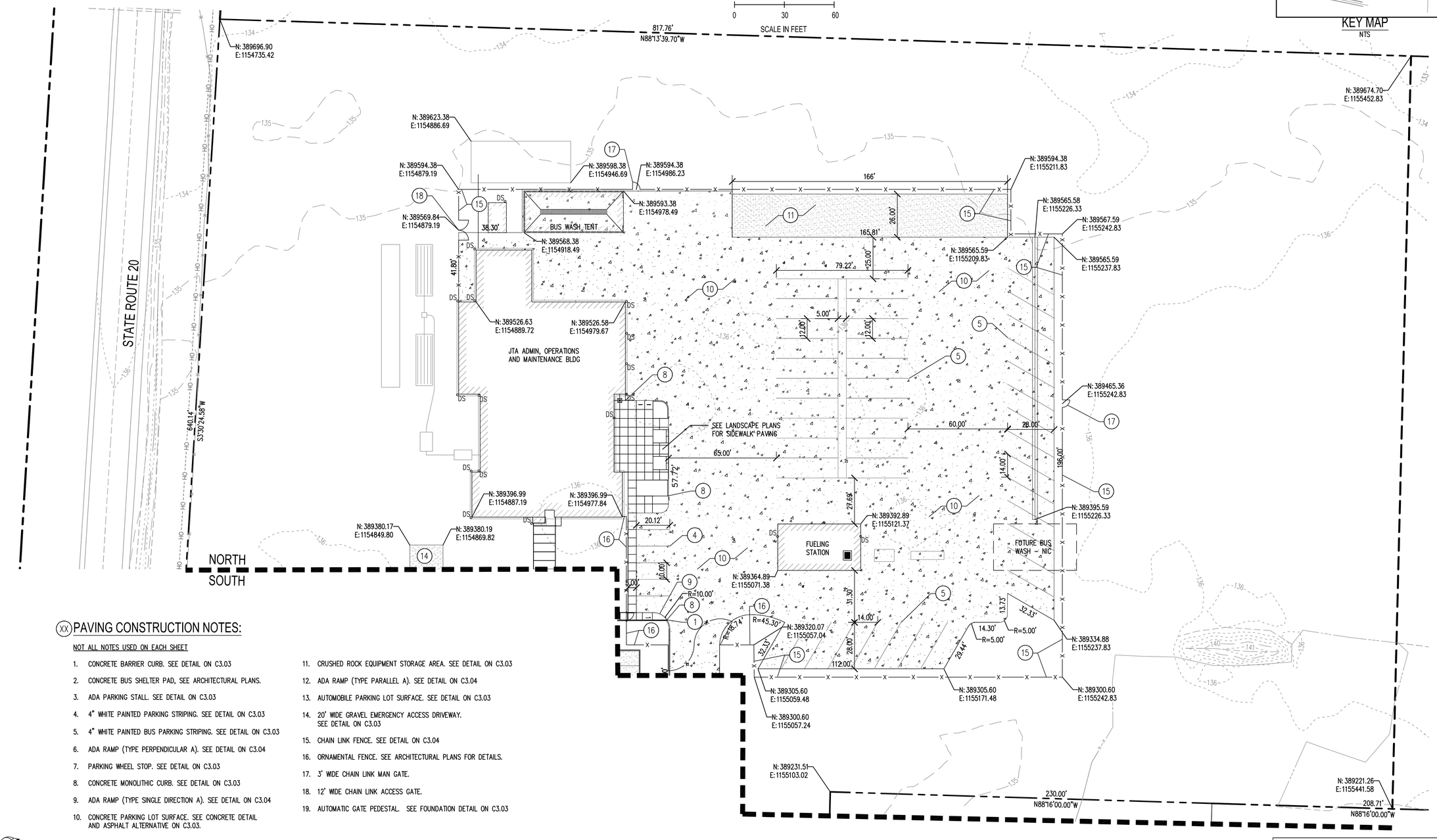
1. ALL DIMENSIONS ON THIS SHEET ARE TO FACE OF CURB.

SEC. 33, T30N, R1W, W.M.

N

0 30 60

SCALE IN FEET



(XX) PAVING CONSTRUCTION NOTES:

NOT ALL NOTES USED ON EACH SHEET

1. CONCRETE BARRIER CURB. SEE DETAIL ON C3.03
2. CONCRETE BUS SHELTER PAD, SEE ARCHITECTURAL PLANS.
3. ADA PARKING STALL. SEE DETAIL ON C3.03
4. 4" WHITE PAINTED PARKING STRIPING. SEE DETAIL ON C3.03
5. 4" WHITE PAINTED BUS PARKING STRIPING. SEE DETAIL ON C3.03
6. ADA RAMP (TYPE PERPENDICULAR A). SEE DETAIL ON C3.04
7. PARKING WHEEL STOP. SEE DETAIL ON C3.03
8. CONCRETE MONOLITHIC CURB. SEE DETAIL ON C3.03
9. ADA RAMP (TYPE SINGLE DIRECTION A). SEE DETAIL ON C3.04
10. CONCRETE PARKING LOT SURFACE. SEE CONCRETE DETAIL AND ASPHALT ALTERNATIVE ON C3.03.
11. CRUSHED ROCK EQUIPMENT STORAGE AREA. SEE DETAIL ON C3.03
12. ADA RAMP (TYPE PARALLEL A). SEE DETAIL ON C3.04
13. AUTOMOBILE PARKING LOT SURFACE. SEE DETAIL ON C3.03
14. 20' WIDE GRAVEL EMERGENCY ACCESS DRIVEWAY. SEE DETAIL ON C3.03
15. CHAIN LINK FENCE. SEE DETAIL ON C3.04
16. ORNAMENTAL FENCE. SEE ARCHITECTURAL PLANS FOR DETAILS.
17. 3' WIDE CHAIN LINK MAN GATE.
18. 12' WIDE CHAIN LINK ACCESS GATE.
19. AUTOMATIC GATE PEDESTAL. SEE FOUNDATION DETAIL ON C3.03

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KEY MAP
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JOHN JAMES EDWARD BSON
STATE OF WASHINGTON
42010
REGISTERED PROFESSIONAL ENGINEER
02/05/2014

Sheet Title
NORTH HORIZONTAL CONTROL, PAVING AND STRIPING PLAN

Drawn By WGH
Checked By JEG

Sheet Number
C3.01

Sheet Number 23 Of 48

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SEC. 33, T30N, R1W, W.M.

N

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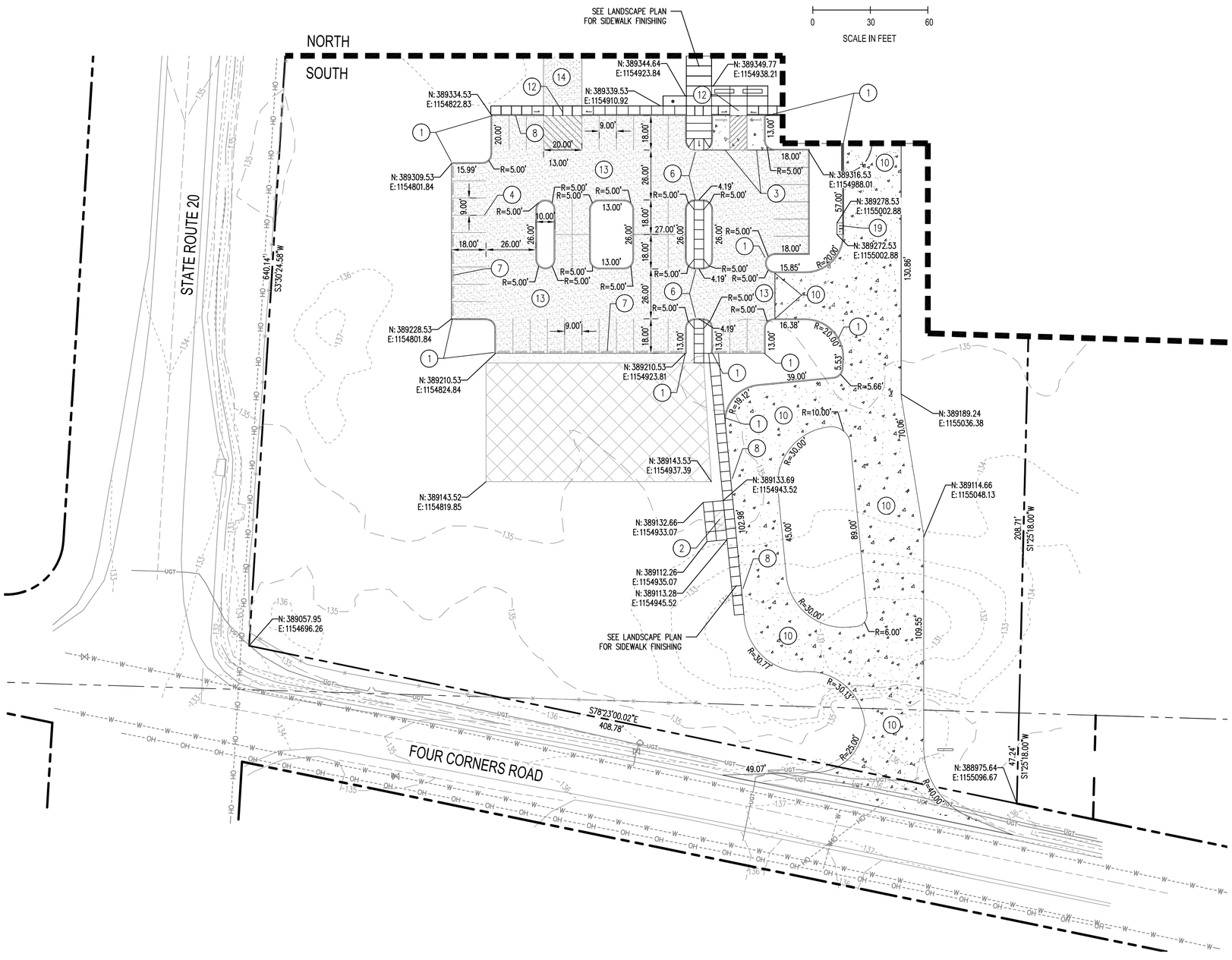
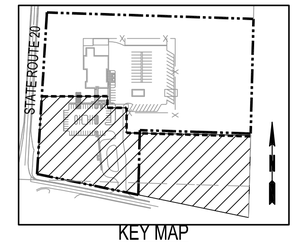
SCALE IN FEET





KEY MAP
NTS

LEGEND:

- CRUSH ROCK SURFACING
- PORTLAND CEMENT CONCRETE PAVEMENT, SEE DETAIL ON C3.03
- CONCRETE BARRIER CURB
- CONCRETE MONOLITHIC CURB

(XX) PAVING CONSTRUCTION NOTES:

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14. 20' WIDE GRAVEL EMERGENCY ACCESS DRIVEWAY. SEE DETAIL ON C3.03
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02 05 13	BID SET

02/05/2014

Sheet Title
SOUTH HORIZONTAL CONTROL, PAVING AND STRIPING PLAN

Drawn By WGH
Checked By JEG

Sheet Number
C3.02

Sheet Number 23 Of 28

ACCEPTED AS NOTED
JEFFERSON COUNTY PUBLIC WORKS
SVS. COUNTY ENGINEER

BY: _____
ACCEPTANCE

BY: _____
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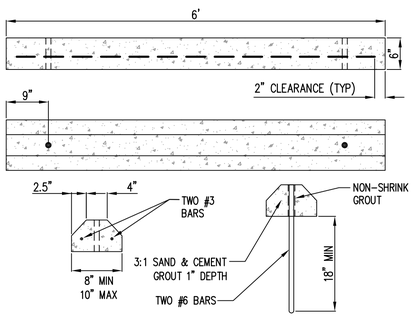
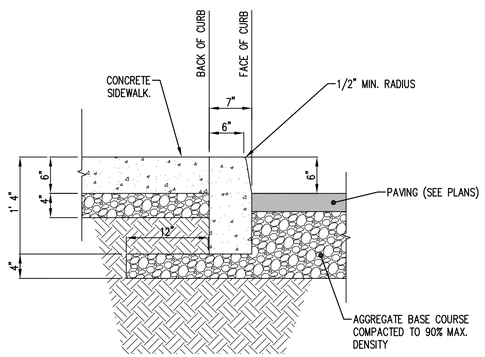
SCJ ALLIANCE
GENERAL HORIZONTAL CONTROL, PAVING, STRIPING & SIGNING NOTES:

1. UTILITY LAYOUTS:
   STATION AND OFFSET FOR:
   - CATCHBASINS – CENTER OF STRUCTURE OR FACE OF CURB MID POINT BACK OF RIM. CONTRACTOR TO LOCATE GRATES AT APPROPRIATE LOW POINTS AND SURFACE WATER FLOW LINES
   - SANITARY SEWER – CENTER OF STRUCTURE
   - WATER APPURTENANCES – CENTER OF APPURTENANCE
   - FIRE HYDRANTS – CENTER OF APPURTENANCE
   - VAULTS – CENTER OF STRUCTURE

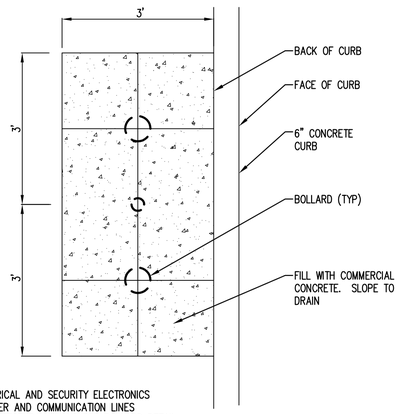
2. THE HORIZONTAL CONTROL PLAN INFORMATION IS NOT EXHAUSTIVE. IT IS ASSUMED THAT THE ELECTRONIC FILES WILL BE PROVIDED TO THE SURVEYOR FOR STAKING.



PRECAST CEMENT CONCRETE WHEELSTOP
NTS

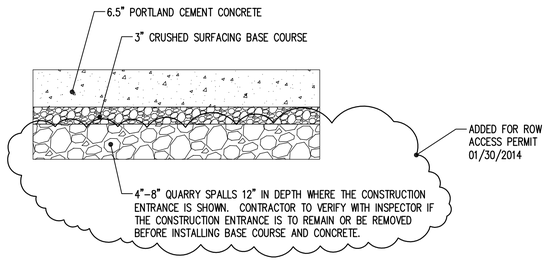


MONOLITHIC CURB
NTS

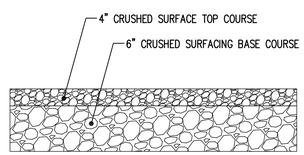


NOTE:
1. REFER TO ELECTRICAL AND SECURITY ELECTRONICS PLAN FOR ALL POWER AND COMMUNICATION LINES
2. REFER TO ARCHITECTURAL PLANS FOR BOLLARD DETAIL AND CARD READER SPECIFICATIONS.

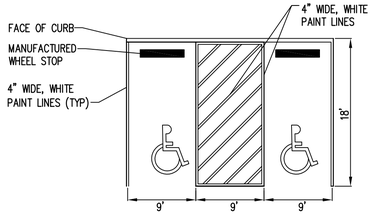
GATE CONTROLLER PAD
NTS



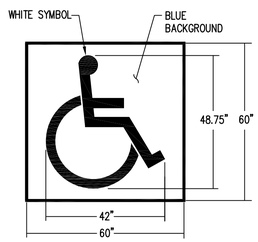
BASE BID
CONCRETE BUS PARKING AND ACCESS ROAD SECTION
NTS



BASE BID
AUTOMOBILE PARKING SECTION
NTS



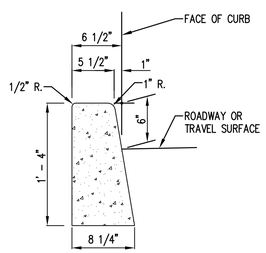
ADA PARKING STALL
NTS



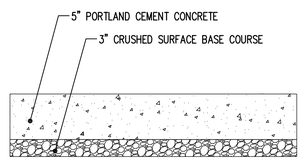
ACCESSIBLE PARKING SYMBOL
LOCATE AT EDGE OF PARKING SPACE

NOTES:
1. SEE SITE PLAN FOR COMPLETE LAYOUT.
2. THESE DETAILS ARE FOR REFERENCE AND DIMENSION CONTROL ONLY.
3. ALL DIMENSIONS ARE TO CENTER OF STRIPE UNLESS OTHERWISE INDICATED.

STRIPING AND SYMBOL (PAINT)
NTS



CONCRETE BARRIER CURB
NTS



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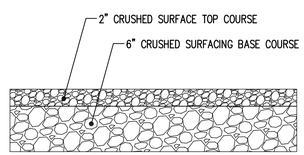

WIDTH AND LENGTH OF AREA PER C3.01 AND C3.02

EQUIPMENT STORAGE AREA & EMERGENCY ACCESS DRIVEWAY
NTS

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Project Title
JEFFERSON TRANSIT AUTHORITY

63 FOUR CORNERS RD
PORT TOWNSEND, WASHINGTON 98368

Project Numbers
FTA PROJECT NUMBER: WA-0180-02

Issue & Revision Dates

08 07 13	100% SD
11 04 13	100% DD
12 30 13	AGENCY SET
02 05 13	BID SET

Sheet Title
HORIZONTAL CONTROL, PAVING, SIGNING AND STRIPING NOTES & DETAILS

Drawn By: WGH
Checked By: JEG

Sheet Number
C3.03

Sheet Number 23 of 28

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Feb 14, 2014 12:22:42pm – User linda
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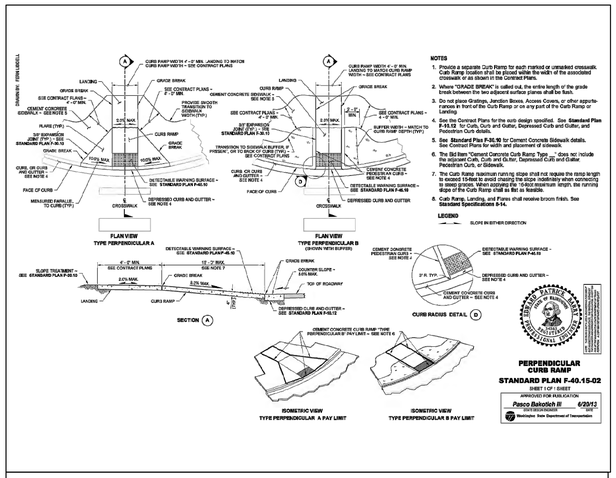

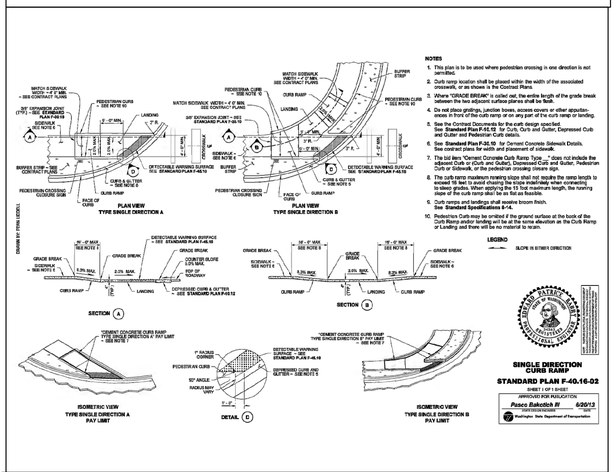

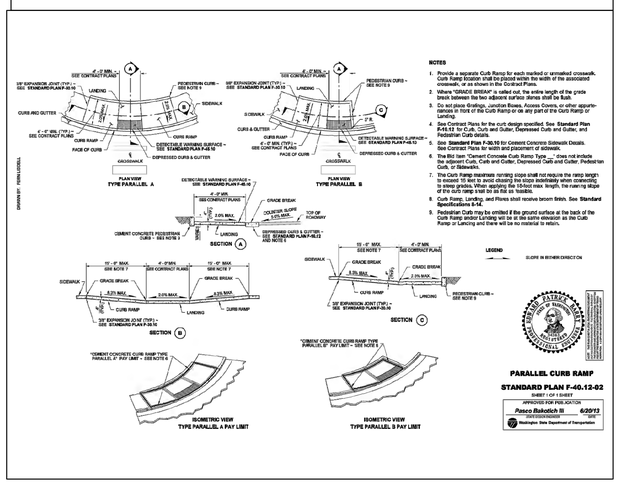

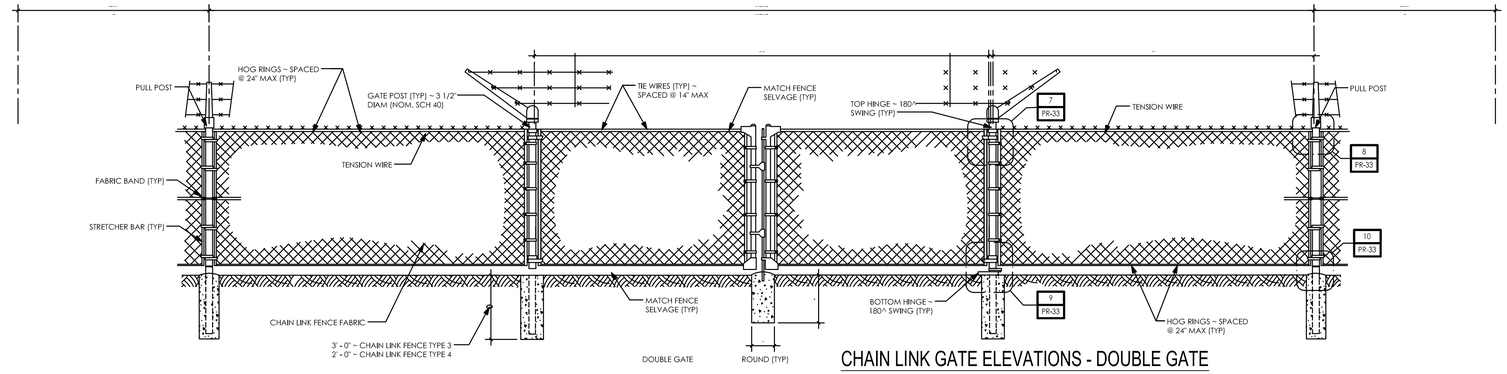

CHAIN LINK GATE ELEVATIONS - DOUBLE GATE

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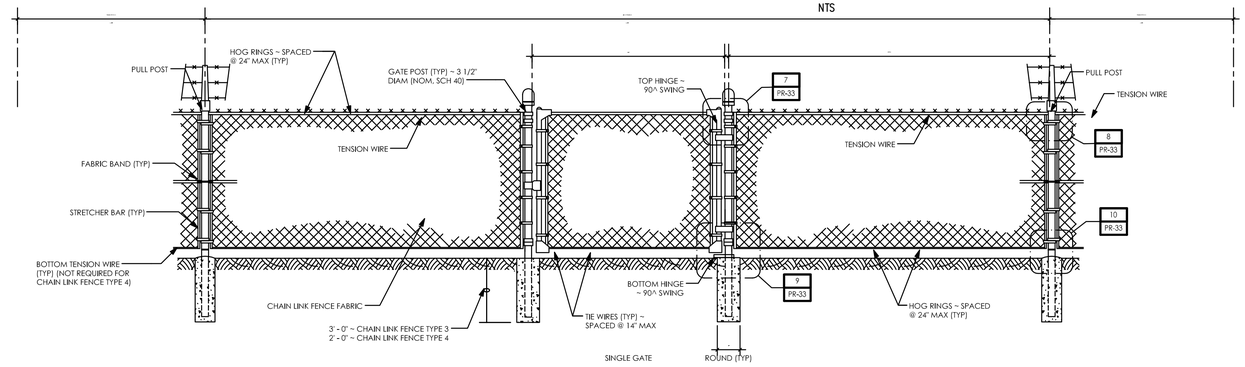

CHAIN LINK GATE ELEVATIONS - SINGLE GATE

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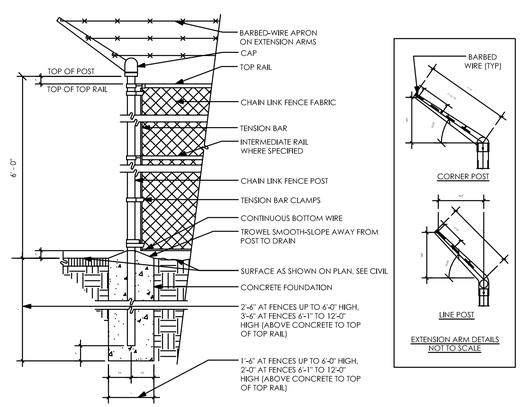

CHAIN LINK END, CORNER AND GATE POST

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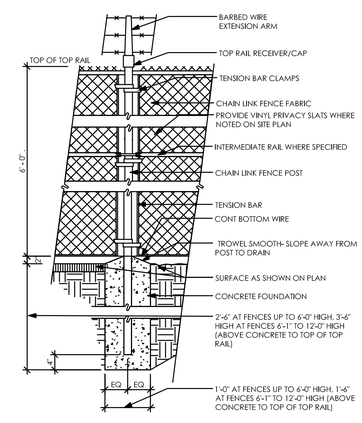

CHAIN LINK POST

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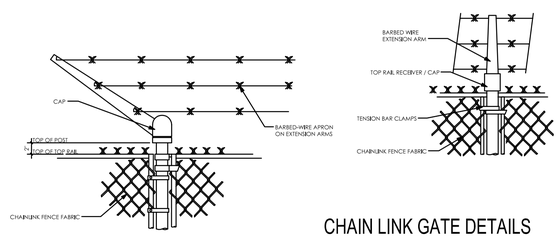

CHAIN LINK GATE DETAILS

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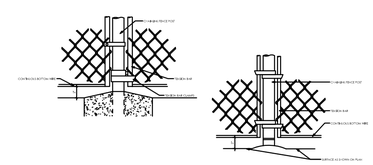

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02/05/2014

Sheet Title
HORIZONTAL CONTROL, PAVING, SIGNING, AND STRIPING DETAILS

Drawn By WGH
Checked By JEG

Sheet Number
C3.04

Sheet Number 25 OF 108

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SCALE IN FEET

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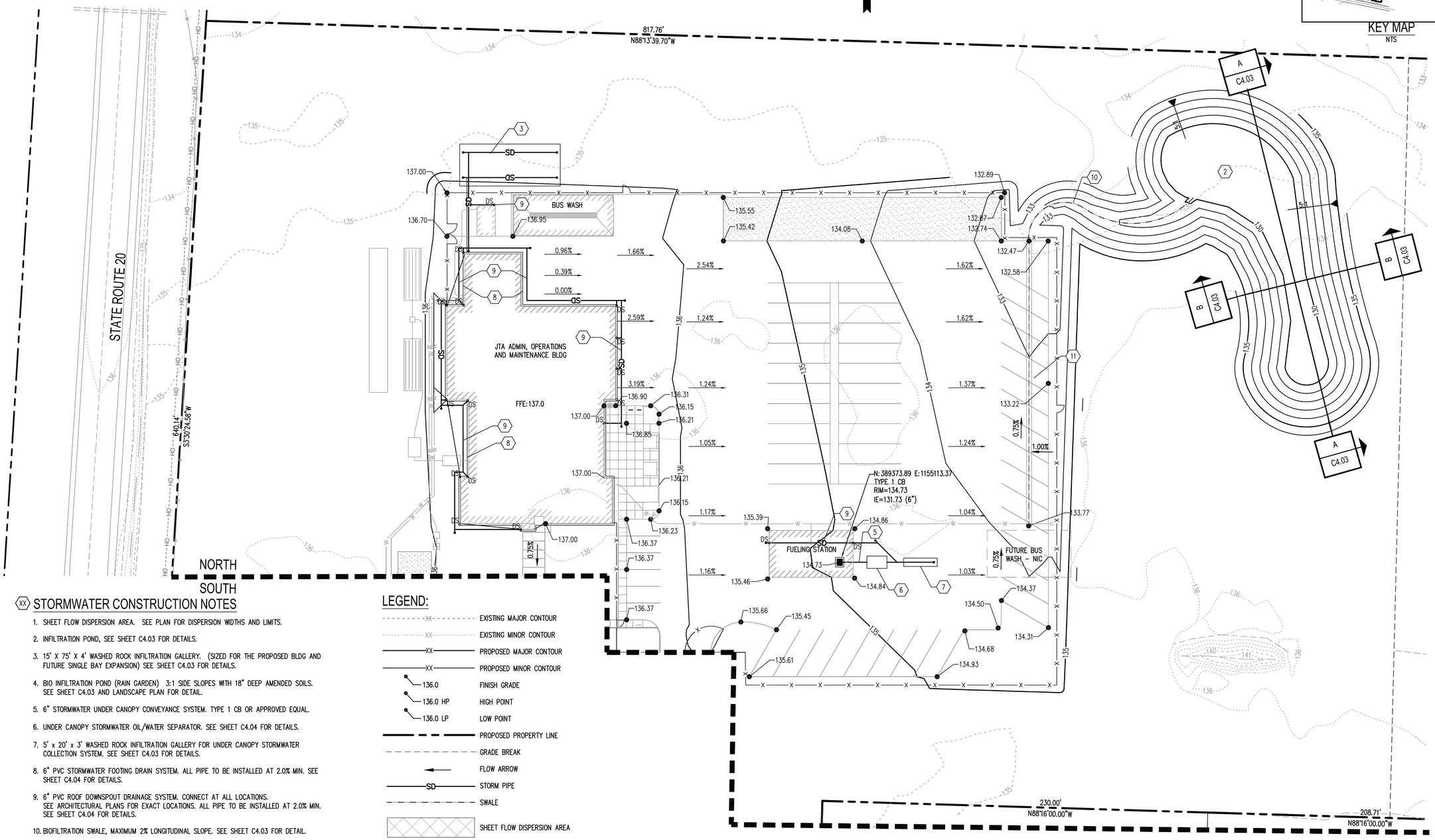

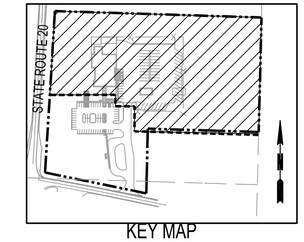

KEY MAP
NTS

XX STORMWATER CONSTRUCTION NOTES

1. SHEET FLOW DISPERSION AREA. SEE PLAN FOR DISPERSION WIDTHS AND LIMITS.
2. INFILTRATION POND, SEE SHEET C4.03 FOR DETAILS.
3. 15' X 75' X 4' WASHED ROCK INFILTRATION GALLERY. (SIZED FOR THE PROPOSED BLDG AND FUTURE SINGLE BAY EXPANSION) SEE SHEET C4.03 FOR DETAILS.
4. BIO INFILTRATION POND (RAIN GARDEN) 3:1 SIDE SLOPES WITH 18" DEEP AMENDED SOILS. SEE SHEET C4.03 AND LANDSCAPE PLAN FOR DETAIL.
5. 6" STORMWATER UNDER CANOPY CONVEYANCE SYSTEM. TYPE 1 CB OR APPROVED EQUAL.
6. UNDER CANOPY STORMWATER OIL/WATER SEPARATOR. SEE SHEET C4.04 FOR DETAILS.
7. 5' x 20' x 3' WASHED ROCK INFILTRATION GALLERY FOR UNDER CANOPY STORMWATER COLLECTION SYSTEM. SEE SHEET C4.03 FOR DETAILS.
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10. BIOFILTRATION SWALE, MAXIMUM 2% LONGITUDINAL SLOPE. SEE SHEET C4.03 FOR DETAIL.
11. VALLEY GUTTER, SEE SHEET C4.03 FOR DETAIL.

LEGEND:

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- 136.0 FINISH GRADE
- 136.0 HP HIGH POINT
- 136.0 LP LOW POINT
- PROPOSED PROPERTY LINE
- GRADE BREAK
- FLOW ARROW
- SD STORM PIPE
- SWALE
- SHEET FLOW DISPERSION AREA

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JAMES EDWARD GRIMMELSPACHER
STATE OF WASHINGTON
40018
REGISTERED
PROFESSIONAL ENGINEER
02/05/2014

Sheet Title
NORTH GRADING AND STORM DRAINAGE PLAN

Drawn By WGH
Checked By JEG

Sheet Number
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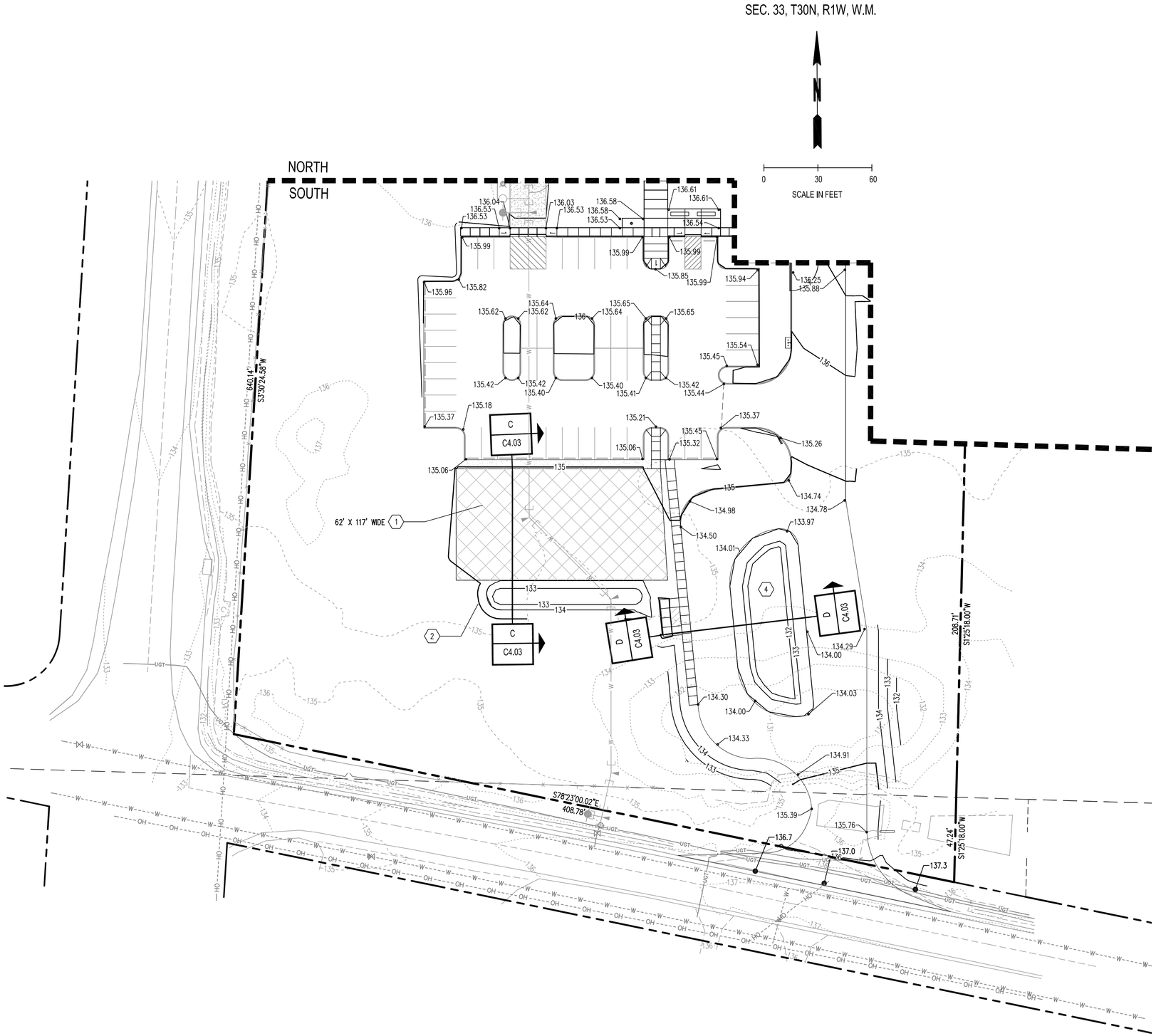

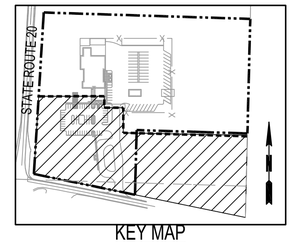

KEY MAP
NTS

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XX	EXISTING MINOR CONTOUR
XX	PROPOSED MAJOR CONTOUR
XX	PROPOSED MINOR CONTOUR
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136.0 HP	HIGH POINT
136.0 LP	LOW POINT
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SD	STORM PIPE
	SWALE
	SHEET FLOW DISPERSION AREA

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02/05/2014

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SOUTH GRADING AND STORM DRAINAGE PLAN

Drawn By WGH
Checked By JEG

Sheet Number
C4.02

Sheet Number 27 of 28

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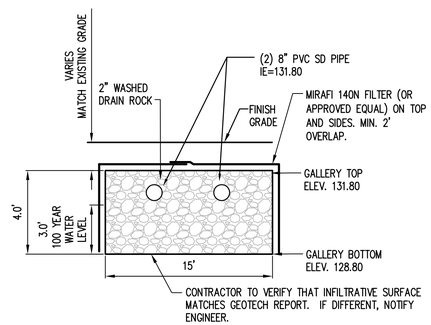

INFILTRATION GALLERY - BUILDING ROOF

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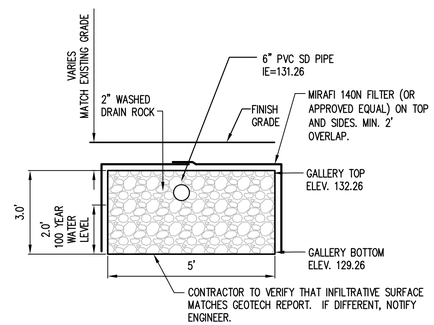

INFILTRATION GALLERY - FUELING STATION

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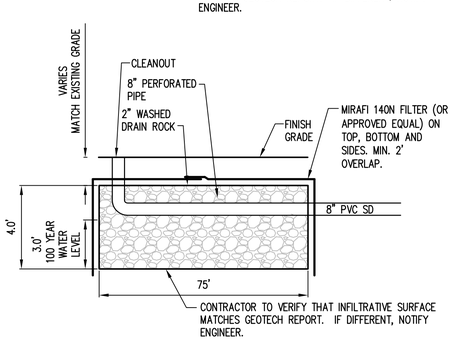

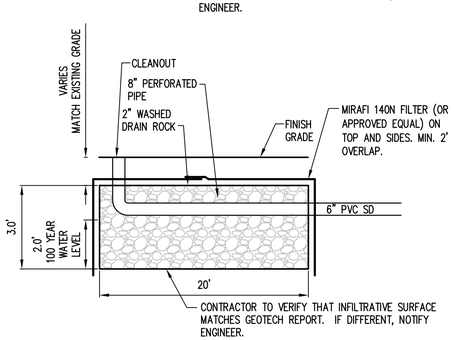

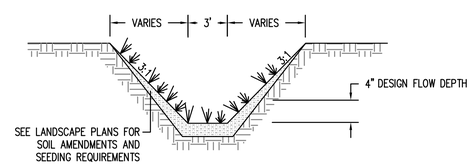

BIOFILTRATION SWALE

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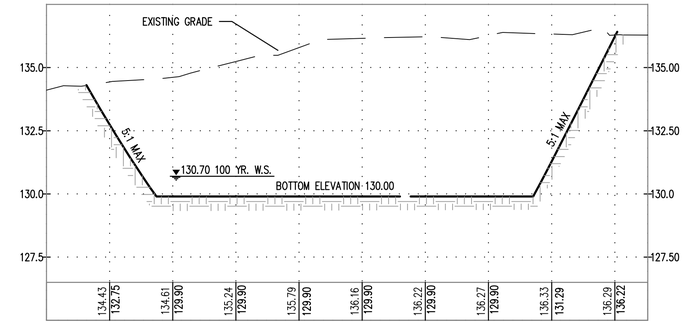
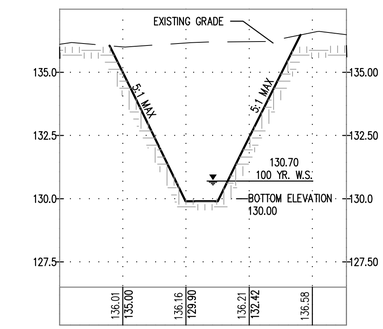
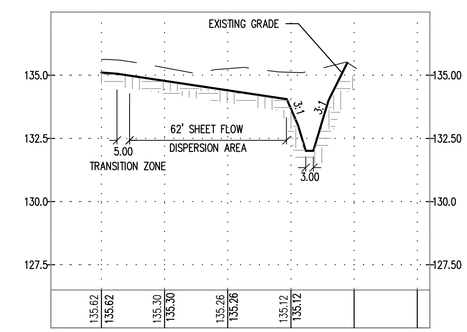


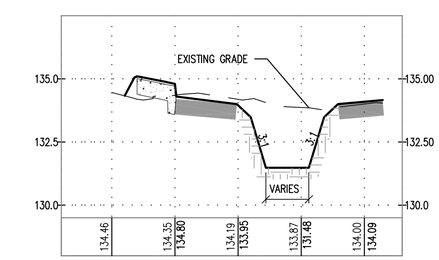
POND SECTION A-A



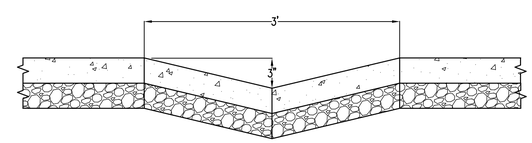
POND SECTION B-B



POND SECTION C-C



POND SECTION D-D



VALLEY GUTTER

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Project Title
JEFFERSON TRANSIT AUTHORITY

63 FOUR CORNERS RD
PORT TOWNSEND, WASHINGTON 98368

Project Numbers

FTA PROJECT NUMBER: WA-0180-02

Issue & Revision Dates

08 07 13	100% SD
11 04 13	100% DD
12 30 13	AGENCY SET
02 05 13	BID SET

THOMAS JAMES EDWARD JOHNSON
STATE OF WASHINGTON
42015
REGISTERED
PROFESSIONAL ENGINEER

02/05/2014

Sheet Title
GRADING AND DRAINAGE NOTES & DETAILS

Drawn By WGH
Checked By JEG

Sheet Number
C4.03

Sheet Number 29 of 48

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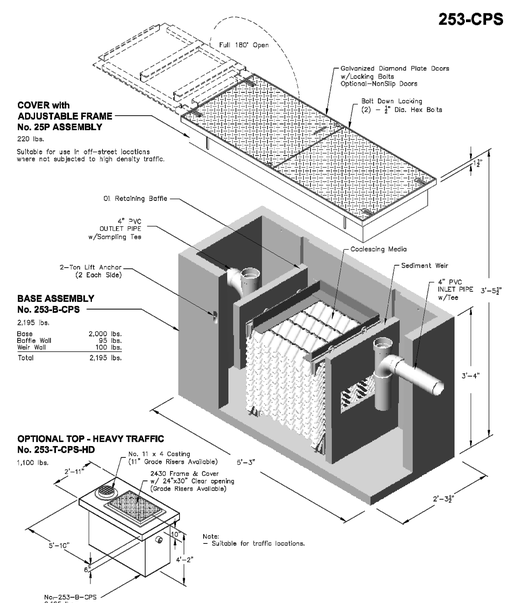
SEC. 33, T30N, R1W, W.M.

SCJ ALLIANCE GENERAL GRADING NOTES:

1. THE BOUNDARIES OF THE CLEARING/GRUBBING LIMITS SHOWN ON THE EROSION/SEDIMENTATION CONTROL PLAN (SEE SHTS EC-00 THROUGH EC-02) SHALL BE CLEARLY FLAGGED BY A CONTINUOUS LENGTH OF SURVEY TAPE (OR FENCING, IF REQUIRED) PRIOR TO ANY CLEARING OR GRADING. DURING THE CONSTRUCTION PERIOD NO DISTURBANCE BEYOND THE GRADING/CLEARING LIMITS SHALL BE PERMITTED. THE GRADING/CLEARING LIMITS SHALL BE MAINTAINED BY THE CONTRACTOR/TESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
2. TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY GRADING ACTIVITIES. NO EQUIPMENT IS ALLOWED WITH THE TREE PROTECTION BOUNDARIES. ANY GRADING REQUIRED WITHIN A TREE PROTECTION BOUNDARY MUST BE DONE WITH HAND EQUIPMENT.
3. THE TESC FACILITIES SHOWN ON THE EROSION/SEDIMENTATION CONTROL PLAN (SEE SHTS EC-00 THROUGH EC-02) MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING AND/OR ASPHALT/CONCRETE CUTTING SO AS TO ENSURE NO TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES.
4. ANY AREAS OF EXPOSED SOILS, INCLUDING BUT NOT LIMITED TO ROADWAY EMBANKMENTS, STOCKPILE MATERIAL, AND CUT SLOPES THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED TESC METHODS (E.G. SEEDING, MULCHING, PLASTIC COVERING, NETTING, EROSION BLANKETS ETC.).
5. STABILIZED CONSTRUCTION ENTRANCES AND ROADS SHALL BE INSTALLED PRIOR TO ANY OTHER CLEARING OR GRADING ASSOCIATED WITH THE PROJECT AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
6. DURING THE WET SEASON (OCTOBER 1 THROUGH APRIL 30 INCLUSIVE), ALL DISTURBED SOILS SHALL BE STABILIZED WITHIN 48 HOURS AFTER STOP OF WORK. EROSION CONTROL MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, COVERING THE AFFECTED AREA INCLUDING SPOIL PILES WITH PLASTIC SHEETING, STRAW MATTING, JUTE MATTING, STRAW MULCH, OR WOOD CHIPS. SEEDING OF THE DISTURBED AREAS SHALL TAKE PLACE AS WEATHER PERMITS.

SCJ ALLIANCE GENERAL STORM DRAINAGE NOTES:

1. CONTRACTOR SHALL RECORD ANY FIELD DEVIATION FROM ENGINEERING PLAN. THESE RECORDS SHALL BE KEPT ON CONSTRUCTION DRAWINGS AND TURNED OVER TO ENGINEER UPON COMPLETION OF PROJECT.
2. THE CONTRACTOR SHALL VERIFY DIA, LENGTH, CONDITION, PIPE TYPE, SLOPE AND VERTICAL AND HORIZONTAL ALIGNMENT OF THE EXISTING ALIGNMENT OF THE PROPOSED POINT OF CONNECTION PRIOR TO CONNECTION AND REPORT ANY DISCREPANCIES TO ENGINEER PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK.
4. STATIONS AND OFFSETS FOR CATCH BASINS ARE CALLED OUT TO CENTER OF STRUCTURE.
5. PIPE LENGTHS ARE CALLED OUT FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.



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253-CPS	253-CPS OIL / WATER SEPARATOR COALESCING - 27 GPM
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Issue Date: Revised 5-29-13	
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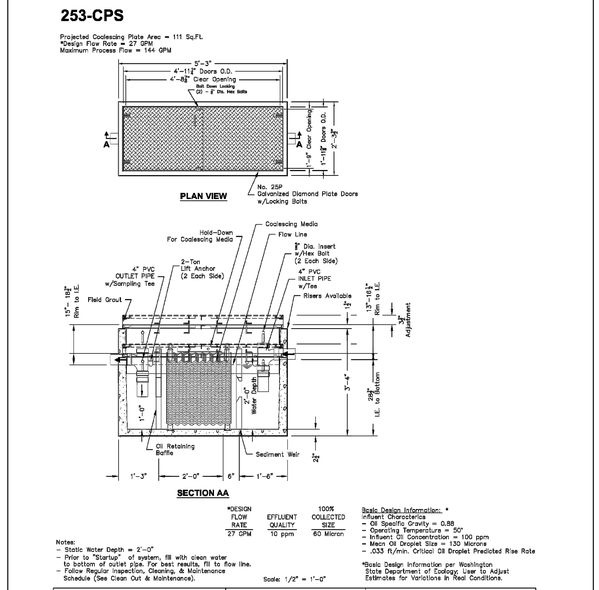

*DESIGN FLOW RATE	EFFLUENT QUALITY	100% COLLECTED SIZE
27 GPM	10 ppm	60 Micron

Notes:
- Static Water Depth = 2'-0"
- Prior to "Startup" of system, fill with clean water to bottom of outlet pipe. For best results, fill to flow line.
- Follow Regular Inspection, Cleaning, & Maintenance Schedule (See Clean Out & Maintenance).

Scale: 1/2" = 1'-0"

Basic Design Information: *
Influent Characteristics
- Oil Specific Gravity = 0.88
- Operating Temperature = 50°
- Influent Oil Concentration = 100 ppm
- Mean Oil Droplet Size = 130 Microns
- .033 ft/min. Critical Oil Droplet Predicted Rise Rate

*Basic Design Information per Washington State Department of Ecology. User to Adjust Estimates for Variations in Real Conditions.

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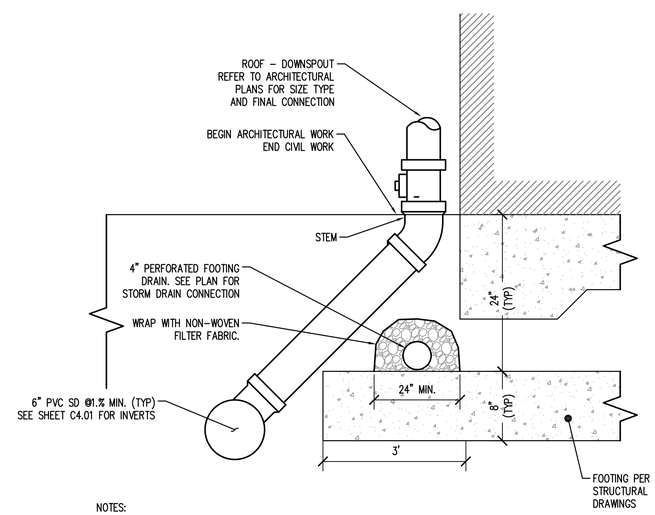
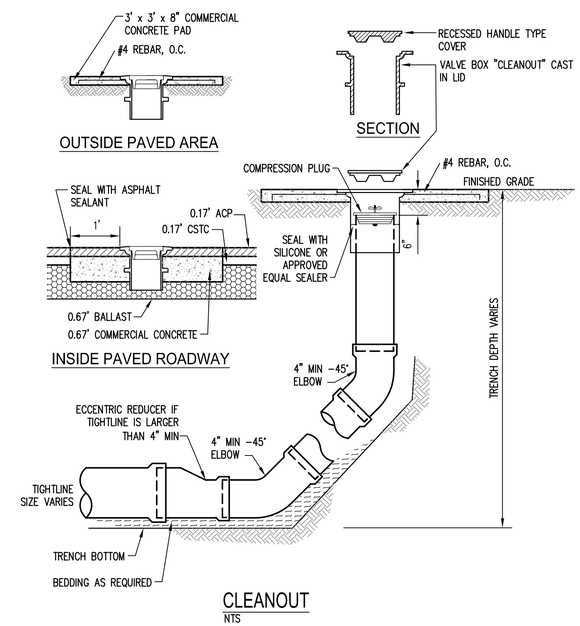


NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL LOCATION INFORMATION.
2. ALL DOWNSPOUTS THROUGH CEMENT CONCRETE OR ASPHALT CONCRETE SHALL BE CAST IRON AND SLEEVED.
3. COORDINATE SLEEVE WITH FLOOR AND FOOTING REINFORCING STEEL CONTRACTOR.
4. STEM I.D. SHALL BE GREATER THAN DOWNSPOUT O.D. DOWNSPOUT TO EXTEND 6" INTO STEM. SEAL ANNULAR SPACE BETWEEN DOWNSPOUT AND STEM WITH FLEXIBLE MATERIAL.

TYPICAL DOWNSPOUT AND FOOTING DRAIN

NTS



CLEANOUT

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VERTICAL DATUM:

NGVD 29 AS DETERMINED FROM TIES TO THE 1991 JEFFERSON COUNTY GPS PHOTO CONTROL SURVEY STATIONS #23 AND #9163.

BASIS OF BEARINGS:

WASHINGTON STATE COORDINATE SYSTEM, NORTH ZONE (NAD 1983/1986 ADJ.) AS DETERMINED FROM TIES TO THE 1991 JEFFERSON COUNTY GPS PHOTO CONTROL SURVEY STATIONS #23 AND #9163. DISTANCES SHOWN HEREON ARE GROUND DISTANCES.

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Project Title
JEFFERSON TRANSIT AUTHORITY

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PORT TOWNSEND, WASHINGTON 98368

Project Numbers
FTA PROJECT NUMBER: WA-0180-02

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THOMAS JAMES EDWARD GIBSON, STATE OF WASHINGTON, 42010, REGISTERED PROFESSIONAL ENGINEER
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GRADING AND DRAINAGE DETAILS

Drawn By WGH
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Sheet Number
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LEGEND:

- WATER LINE
- RBPA AND WATER METER
- FIRE HYDRANT
- FDC
- POST INDICATOR VALVE (PIV)
- THRUSTBLOCKING

SEC. 33, T30N, R1W, W.M.

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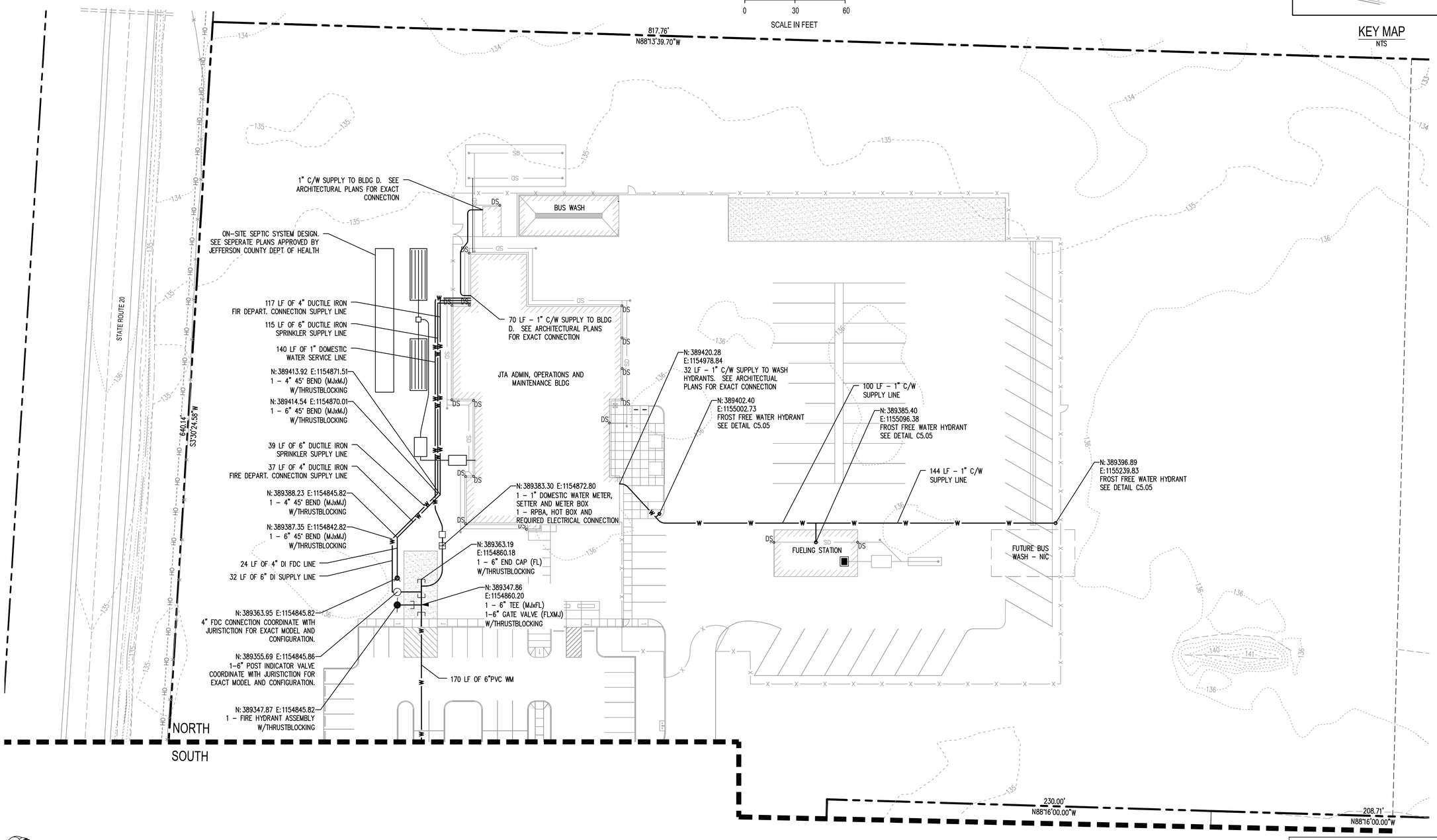
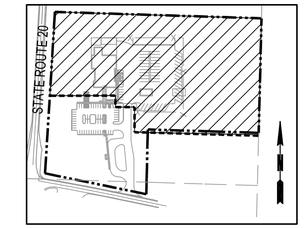
SCALE IN FEET





KEY MAP
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PORT TOWNSEND, WASHINGTON 98368

Project Numbers

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STATE OF WASHINGTON
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02/05/2014

Sheet Title
NORTH WATER PLAN

Drawn By WGH
Checked By JEG

Sheet Number
C5.01

Sheet Number 34 Of 48

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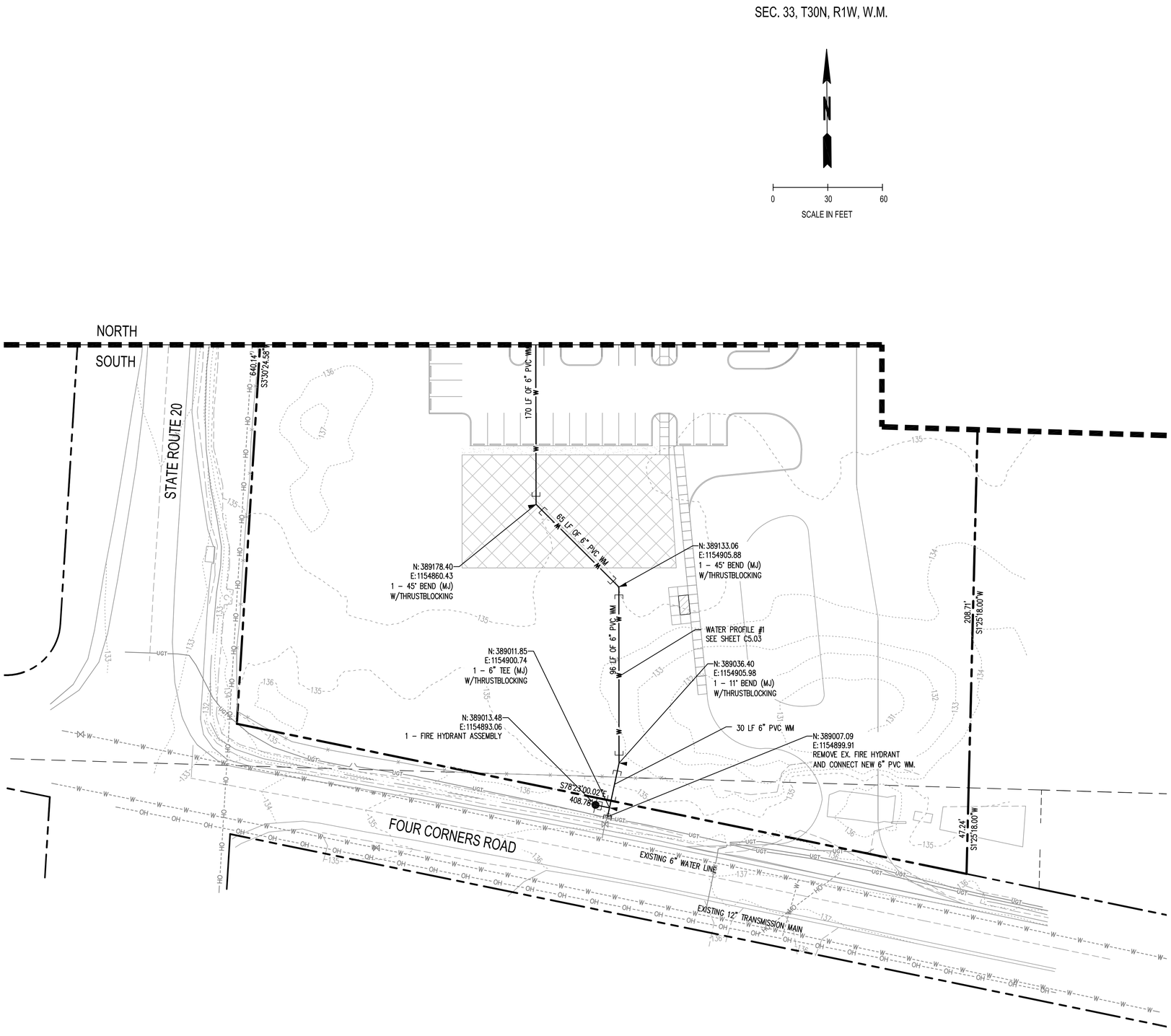

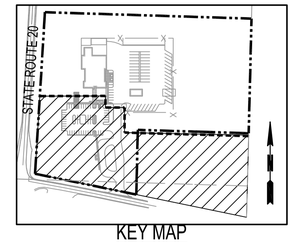

KEY MAP
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LEGEND:

- WATER LINE
- RBPA AND WATER METER
- FIRE HYDRANT
- FDC
- POST INDICATOR VALVE (PIV)
- THRUSTBLOCKING

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Sheet Title
SOUTH WATER PLAN

Drawn By: WGH
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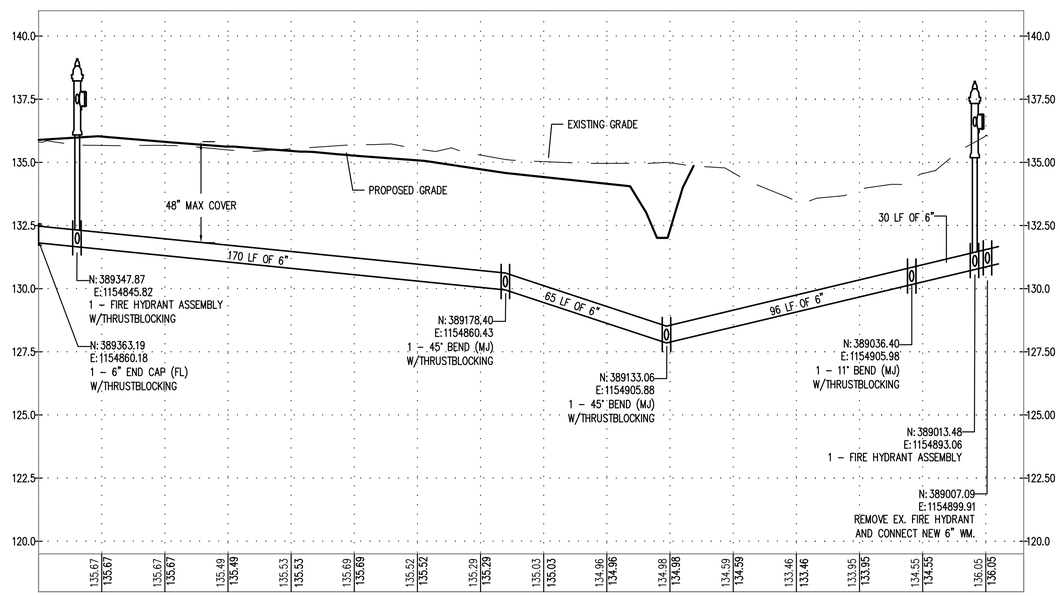

WATER PROFILE #1

SCALE: 1"=30' (HORZ)
1"=10' (VERT)

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WATER PROFILES

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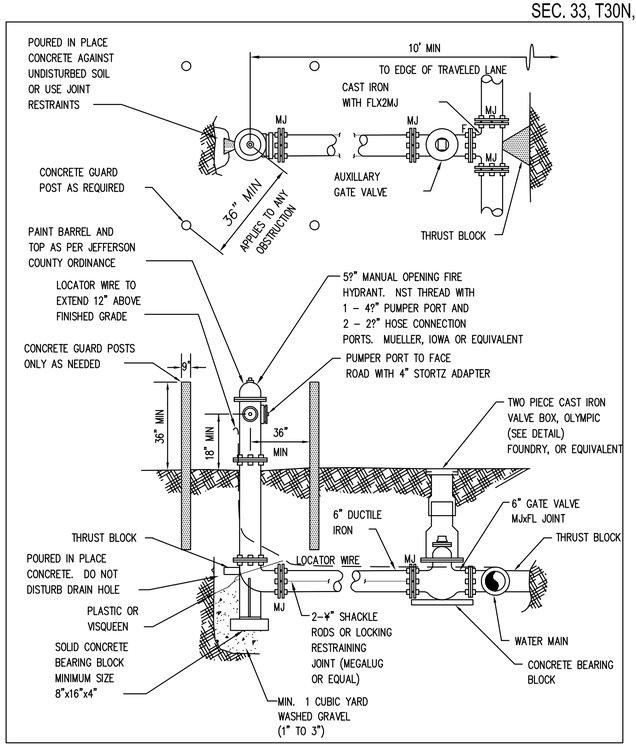
SCJ ALLIANCE GENERAL WATER NOTES:

1. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK.
2. MAINTAIN 10' MINIMUM HORIZONTAL AND 1.5' MINIMUM VERTICAL SEPARATION FROM SEWER MAIN.
3. DOUBLE CHECK VALVE ASSEMBLY (DDCVA) FOR FIRE LINES TO BE LOCATED INSIDE OF ALL BUILDINGS UNLESS OTHERWISE SHOWN.
4. THE CONTRACTOR SHALL BE AWARE THAT WATERLINE DEFLECTION MAY BE REQUIRED TO AVOID PROPOSED AND EXISTING UTILITIES. DEFLECTIONS SHALL NOT EXCEED THE MANUFACTURERS SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY EXISTING UTILITY DEPTH, LOCATION, AND SHALL CALCULATE WATER LINE DEFLECTIONS ACCORDINGLY. WATER LINE PROFILE AS SHOWN ON THE PLANS ARE INFORMATIONAL AND DO NOT REPRESENT THE ACTUAL DEFLECTION TRANSITION LENGTHS.
5. MAIN LINE WATER PIPE SHALL BE PVC PIPE, 6 INCH TO 15 INCH DIAMETER, MUST MEET EITHER ASTM D 3034, SDR 35 SOLID WALL PIPE OR ASTM F 794 FOR SOLID SEAMLESS PROFILE PIPE. ALL JOINTS FOR PVC PIPE WILL CONFORM TO ASTM D 3212 WITH RUBBER GASKETS CONFORMING TO ASTM F 477.

TESTING AND DISINFECTION NOTES:

THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL PROVIDE LEAK TESTING AND PERFORM DISINFECTION IN ACCORDANCE WITH JEFFERSON COUNTY PUD, DEPARTMENT OF HEALTH, AND CONTRACT SPECIAL PROVISIONS.



FIRE HYDRANT
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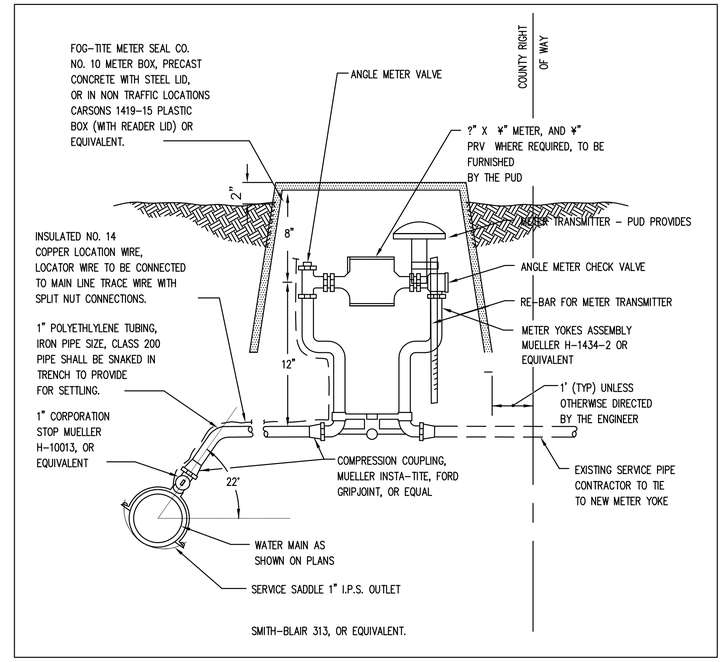

SINGLE SERVICE CONNECTION
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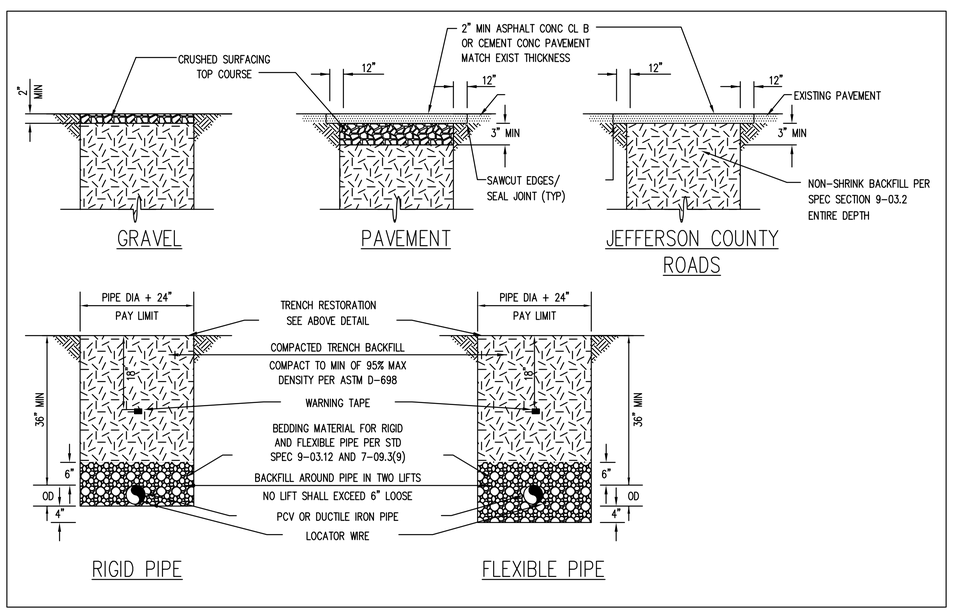

TYPICAL TRENCH
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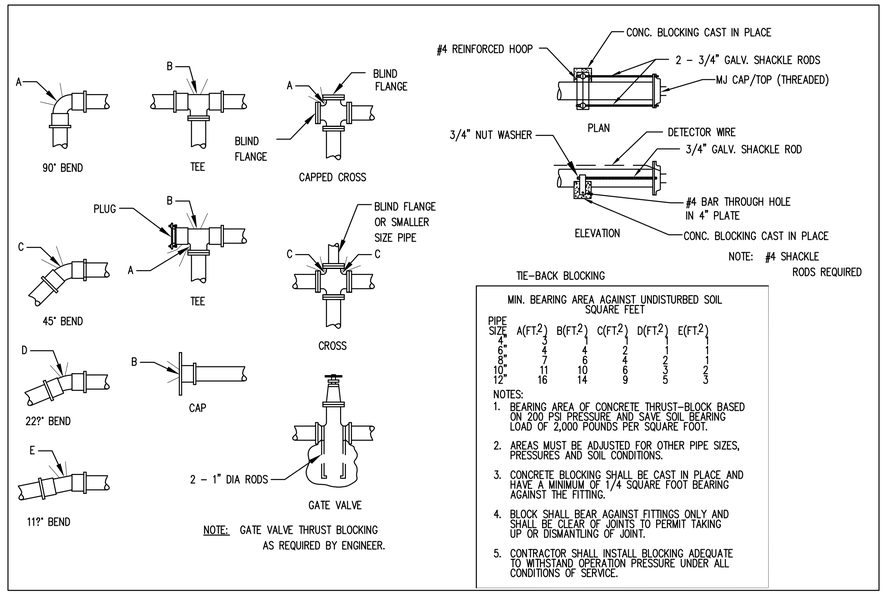

TIE–BACK BLOCKING

MIN. BEARING AREA AGAINST UNDISTURBED SOIL SQUARE FEET

PIPE SIZE	A(FT.²)	B(FT.²)	C(FT.²)	D(FT.²)	E(FT.²)
4"	3	1	1	1	1
6"	4	4	2	1	1
8"	7	6	4	2	1
10"	11	10	6	3	2
12"	16	14	9	5	3

NOTES:
1. BEARING AREA OF CONCRETE THRUST–BLOCK BASED ON 200 PSI PRESSURE AND SAVE SOIL BEARING LOAD OF 2,000 POUNDS PER SQUARE FOOT.
2. AREAS MUST BE ADJUSTED FOR OTHER PIPE SIZES, PRESSURES AND SOIL CONDITIONS.
3. CONCRETE BLOCKING SHALL BE CAST IN PLACE AND HAVE A MINIMUM OF 1/4 SQUARE FOOT BEARING AGAINST THE FITTING.
4. BLOCK SHALL BEAR AGAINST FITTINGS ONLY AND SHALL BE CLEAR OF JOINTS TO PERMIT TAKING UP OR DISMANTLING OF JOINT.
5. CONTRACTOR SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND OPERATION PRESSURE UNDER ALL CONDITIONS OF SERVICE.

CONCRETE THRUST BLOCKING
NTS

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WATER NOTES AND DETAILS

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C5.04

Sheet Number 37 OF 108

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Feb 14, 2014 12:27:42pm – User lindsh
N:\PROJECTS\822 TCF ARCHITECTURE\1822.01 JTA ADMINISTRATION AND MAINTENANCE FACILITY\PHASE 40 – CONSTRUCTION DOCUMENTS AND PERMIT

SEC. 33, T30N, R1W, W.M.

The Model S3 hydrant is designed for use anywhere potable water is required.

Unlike conventional hydrants which drain the water into the ground, the Model S3 employs a reservoir below frost line to contain the water. The hydrant is completely sealed to prevent surface and ground water from entering reservoir or service line. The valve, with it's unique venturi design, removes the stored water along with the water being used.

The Model S3 is equipped with a diverter spout, which allows the hydrant to be operated independently from the backflow preventer. When the hydrant is to be used with a hose, the diverter sleeve is pulled down during flow and water is automatically diverted to the backflow preventer hose connection. The diverter will work with or without a hose attached to the backflow preventer and will automatically release any time the hydrant is shut off.

An important feature of the S3 is easy maintenance. The entire working portion of the hydrant can be removed from the reservoir without any excavation.

SPECIFICATIONS:
HOSE CONNECTION BACKFLOW PREVENTER (BFP)

- NIDEL® Model 37HF
- ASSE 1052
- Field Testable (see instruction sheet)
- Two Check Valves

OPTIONAL: ASSE 1057 listed - Consists of NIDEL® Model 34HF Single Check Vacuum Breaker
Order example: S3-Bury Depth-SC

PATENT - U.S. Patent number 5246028 (Additional Patents Pending)

FEMALE INLET - 1" N.P.T.

MIN PRESSURE - 20 psi

MAX PRESSURE - 100 psi

MAX TEMPERATURE - 120° F

FLOW RATES (GPM)

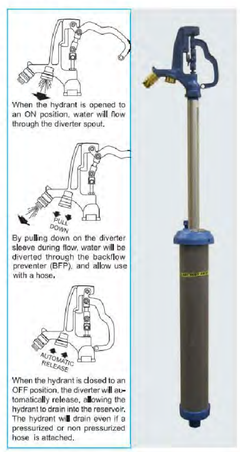
PSI	DIVERTER	BFP
20	4.5	1.5
30	5.5	3.0
40	6.5	4.0
50	7.0	5.0
60	8.0	6.0
70	8.5	7.0
80	9.0	7.5
90	9.5	8.0
100	10.0	8.5

For Installation / Troubleshooting Instructions go to www.woodfordmfg.com or call 1-800-621-6032

WOODFORD

Backflow Protected
Automatic Draining
Freezeless

Sanitary Yard Hydrant
Model S3



NOTICE
FOR WINTER USE: The hydrant must be operated at full flow, through the diverter, for a minimum of 30 seconds before and after each use to drain the hydrant and prevent freezing.

When ordering, specify bury depth.

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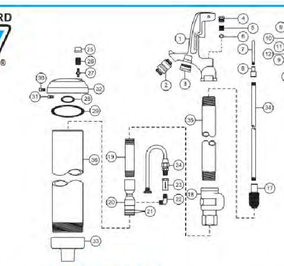
Rev. 1/11 Form No. S3.109

WOODFORD

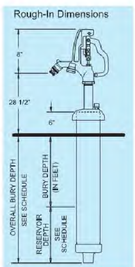


MODEL S3 PARTS LIST

ITEM	PART #	DESCRIPTION
	15219	S3 Head Assembly (Includes Items 1-16)
1	10449	Head
2	37HF-RR	37HF Backflow Preventer
3	15200	Diverter Assembly
4	10100	Packing Nut
5	10101	Packing
6	10102	Packing Support Washer
7	10104	Brass Rod Stem
8	10011	Reducing Coupling
9	10206	Hex Nut
10	10444	Upper Link
11	15211	Lower Link (with set screw 10919)
12	10019	Set Screw
13	15241	Cam and Clevis Assembly (blue)
14	10020	Link Bolt
15	10021	Lever Bolt
16	10443	Lever
17	10106	Plunger
18	10017	Valve Body (1" NPT Inlet)
19		**1" EXTENSION PIPE (Bury Depth & Length)**
	10411	1' Bury (5 9/8" Long)
	10412	2' Bury (7" Long)
	10413	3' Bury (8 3/8" Long)
	10414	4' Bury (9 ½" Long)
	10415	5' Bury (11 1/8" Long)
	10416	6' Bury (12 ½" Long)
	10417	7' Bury (13 7/8" Long)
20	15189	Venturi Assembly
21	10321	Valve Body O-Ring (2 Required)
22	10432	Brass Elbow
23	10458	Check Valve
24	15216	Siphon Tube Assembly
25	10446	Vent Cap
26	10445	3/8" Pipe Nipple
27	10136	Sniffer Valve
28	10405	Hydrant O-Ring
29	10410	Reservoir O-Ring
30	10409	Reservoir Clamp Screw
31	10404	Hydrant Clamp Screw
32	15218	Casing Cover w/Warning Label
33	10401	Inlet Casing
	RK-Y1	Repair Kit (Includes Items 4-7 & 17)
	RK-SHL	Repair Kit (Includes Items 9-15)

ITEM	PART #	DESCRIPTION
34		**OPERATING PIPE (Bury Depth & Length)**
	10023	1' Bury (36 ½" Long)
	10024	2' Bury (47 ½" Long)
	10025	3' Bury (59 ½" Long)
	10026	4' Bury (71 ½" Long)
	10027	5' Bury (83 ½" Long)
	10028	6' Bury (95 ½" Long)
	10029	7' Bury (107 ½" Long)
35		**1 ½" PIPE CASING (Bury Depth & Length)**
	10055	1' Bury (35 ½" Long)
	10056	2' Bury (47 ½" Long)
	10057	3' Bury (59 ½" Long)
	10058	4' Bury (71 ½" Long)
	10059	5' Bury (83 ½" Long)
	10060	6' Bury (95 ½" Long)
	10061	7' Bury (107 ½" Long)
36		**RESERVOIR PIPE (Bury Depth & Length)**
	10421	1' Bury (26" Long)
	10422	2' Bury (39 ¼" Long)
	10423	3' Bury (52 ½" Long)
	10424	4' Bury (66" Long)
	10425	5' Bury (78 ½" Long)
	10426	6' Bury (92 ¼" Long)
	10427	7' Bury (106 ¼" Long)
	15261	Warning Label Kit

Rough-In Dimensions



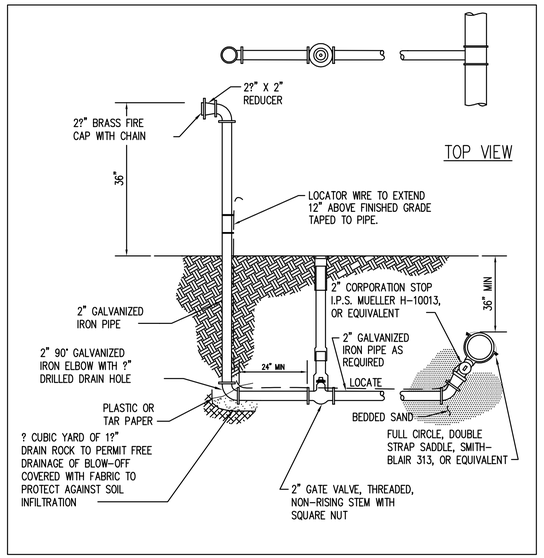
Bury Depth	1'	2'	3'	4' *	5' *	6' *	7' *
Reservoir Depth	16 1/2"	11 7/8"	13 1/4"	14 5/8"	16"	17 3/8"	18 3/4"
Overall Bury Depth	22 1/2"	35 7/8"	48 1/4"	62 5/8"	76"	89 3/8"	102 3/4"
Weight (lbs)	36	42	48	54	59	65	71

* Must ship by truck line due to length.

For more information contact...

WOODFORD MANUFACTURING COMPANY

2121 Waynoka Road, Colorado Springs, Colorado 80915 • **Phone:** (800) 621-6032 • **Fax:** (800) 765-4115
To view our complete product line visit: ***www.woodfordmfg.com*** *or email:* ***sales@woodfordmfg.com***
A Division Of WCM Industries, Inc.



2" BLOW-OFF ASSEMBLY - BOTTOM CONNECTION
NTS

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P.253.572.3993
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Tacoma, Washington98403
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TCF Architecture, PLLC

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CONSULTING SERVICES
2102 CARRIAGE ST SW, SUITE H, OLYMPIA, WASHINGTON 98502
P: 360-352-1465 F: 360-352-1509
SCJALLIANCE.COM

BID SET

Project Title
JEFFERSON TRANSIT AUTHORITY

63 FOUR CORNERS RD
PORT TOWNSEND, WASHINGTON 98368

Project Numbers
FTA PROJECT NUMBER: WA-0180-02

Issue & Revision Dates

08 07 13	100% SD
11 04 13	100% DD
12 30 13	AGENCY SET
02 05 13	BID SET

02/05/2014

Sheet Title
WATER NOTES AND DETAILS

Drawn By WGH
Checked By JEG

Sheet Number
C5.05

Sheet Number 38 of 108

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ACCEPTED AS NOTED
JEFFERSON COUNTY PUBLIC WORKS
SVS. COUNTY ENGINEER
BY: _____
ACCEPTANCE
BY: _____
Expires 2 Years From Acceptance Date

CALL BEFORE YOU DIG
THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT (800) 424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

VERTICAL DATUM:
NGVD 29 AS DETERMINED FROM TIES TO THE 1991 JEFFERSON COUNTY GPS PHOTO CONTROL SURVEY STATIONS #23 AND #9163.

BASIS OF BEARINGS:
WASHINGTON STATE COORDINATE SYSTEM, NORTH ZONE (NAD 1983/1986 ADJ.) AS DETERMINED FROM TIES TO THE 1991 JEFFERSON COUNTY GPS PHOTO CONTROL SURVEY STATIONS #23 AND #9163. DISTANCES SHOWN HEREON ARE GROUND DISTANCES.

Feb 14, 2014 12:27:56pm – User lindsh
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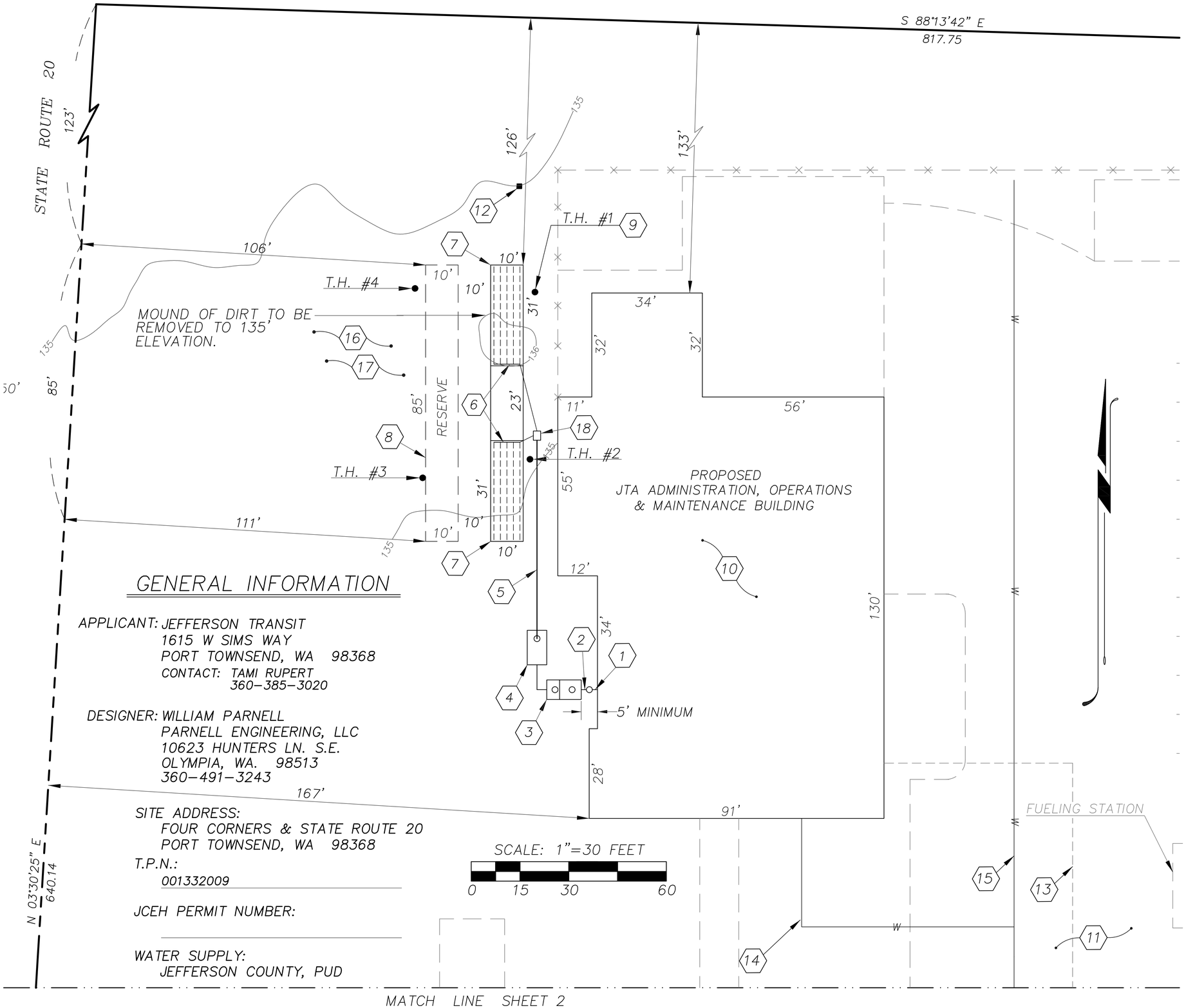


GENERAL INFORMATION

APPLICANT: JEFFERSON TRANSIT
1615 W SIMS WAY
PORT TOWNSEND, WA 98368
CONTACT: TAMI RUPERT
360-385-3020

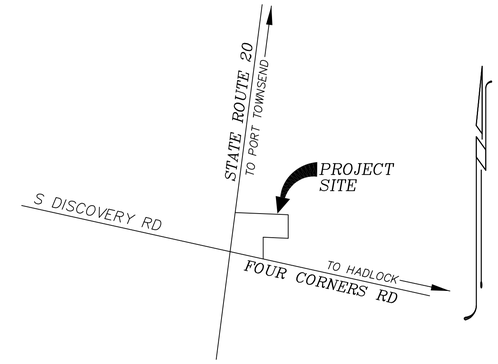
DESIGNER: WILLIAM PARNELL
PARNELL ENGINEERING, LLC
10623 HUNTERS LN. S.E.
OLYMPIA, WA. 98513
360-491-3243

SITE ADDRESS:
FOUR CORNERS & STATE ROUTE 20
PORT TOWNSEND, WA 98368

T.P.N.:
001332009

JCEH PERMIT NUMBER:

WATER SUPPLY:
JEFFERSON COUNTY, PUD



VICINITY MAP
NTS

SEPTIC SYSTEM NOTES

1. 4"ø PVC ASTM 3034 STUB-OUT AND CLEAN-OUT SET RIM @ FINISHED GRADE. STUB-OUT IE = 133.5
2. 4"ø PVC ASTM 3034 TIGHTLINE @ MIN. S = 0.02 FT./FT.
3. 1500 GAL. STEP TANK, SOUND PLACEMENT SERVICES, 2 CHAMBER WATERTIGHT CONCRETE SEPTIC TANK W/APPROVED EFFLUENT FILTER(SEE SEPTIC TANK DETAIL)
4. 1800P GAL. SOUND PLACEMENT SERVICES 1 CHAMBER WATERTIGHT CONCRETE PUMP CHAMBER. (SEE PUMP CHAMBER DETAIL)
5. 65' LF 1.5"ø CLASS 200 FORCEMAIN
6. 8 LINEAL OF 1.5"ø CLASS 200 MANIFOLD
7. 10' X 31' SAND LINED BED (SEE BED DETAIL)
8. RESERVE AREA
9. SOIL TEST PIT (4 EACH)
10. JEFFERSON COUNTY TRANSIT AUTHORITY BUILDING. PROPOSED F.F. ELEV = 137.0
11. PROPOSED ENTRANCE DRIVEWAY/ PARKING
12. T.B.M.: 2" X 2" HUB ELEV.=135.00 ASSUMED
13. PROPOSED POWER LINE
14. PROPOSED WATER SERVICE LINE
15. PROPOSED WATER MAIN SERVICE
16. BUILDING ENVELOPE LIMITS ENCOMPASSES THAT AREA OUTSIDE OF AND PROPERLY SETBACK FROM:
    a. THE SEPTIC DRAINFIELD AND RESERVE AREAS
    b. ALL PROPERTY LINES AND EASEMENTS
17. NO WELLS LOCATED WITHIN 100' OF PROPERTY LINES
18. OSI AUTOMATIC DISTRIBUTION ASSEMBLY (SEE BED DETAIL)

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P.253.572.3993
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PARNELL ENGINEERING, LLC

AGENCY SET

Project Title
JEFFERSON TRANSIT AUTHORITY

63 FOUR CORNERS RD
PORT TOWNSEND, WASHINGTON 98368

Project Numbers
2013 - 006

Issue & Revision Dates

08 07 13	100% SD
11 04 13	100% DD
11 25 13	30% CD
12 09 13	60% CD
12 30 13	AGENCY SET

Sheet Title
SEPTIC DESIGN

Drawn By
Checked By

Sheet Number
-

Sheet Number 3 of 4

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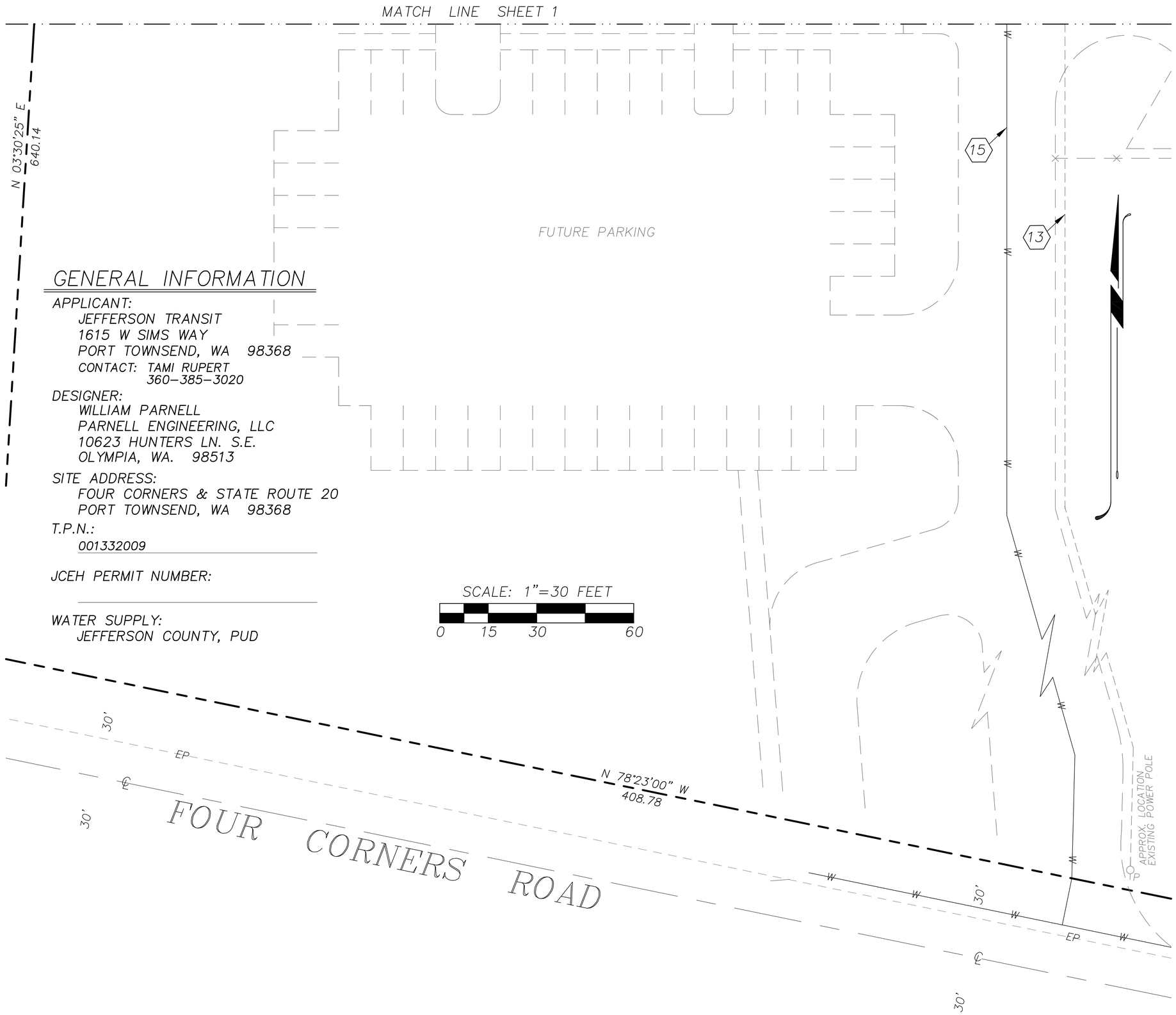

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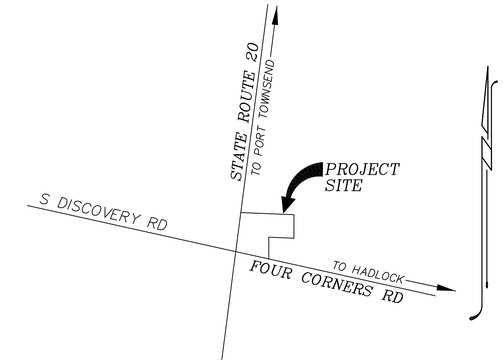

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AGENCY SET

Project Title
JEFFERSON TRANSIT AUTHORITY

63 FOUR CORNERS RD
PORT TOWNSEND, WASHINGTON 98368

Project Numbers
2013 - 006

Issue & Revision Dates

08 07 13	100% SD
11 04 13	100% DD
11 25 13	30% CD
12 09 13	60% CD
12 30 13	AGENCY SET

WILLIAM W. PARNELL
STATE OF WASHINGTON
24192
REGISTERED
PROFESSIONAL ENGINEER

Sheet Title
SEPTIC DESIGN

Drawn By
Checked By

Sheet Number
-

Sheet Number 26 Of 203

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GENERAL CONSTRUCTION NOTES

THE CONTRACTOR SHALL BE CERTIFIED AND APPROVED BY THE COUNTY TO INSTALL SEPTIC SYSTEMS.

ALL REQUIRED TESTS SHALL BE SUCCESSFULLY RUN PRIOR TO CALLING THE DESIGN ENGINEER FOR FINAL INSPECTION.

IT SHALL BE THE INSTALLERS RESPONSIBILITY TO HAVE A COPY OF THIS DESIGN ON-SITE AT ALL TIMES DURING CONSTRUCTION.

ANY VARIATIONS TO THIS DESIGN SHALL FIRST BE APPROVED BY THE DESIGN ENGINEER AND THEN THE COUNTY HEALTH DEPARTMENT.

IT SHALL BE THE OWNERS AND/OR INSTALLER'S RESPONSIBILITY TO NOTIFY THE DESIGN ENGINEER AND COUNTY HEALTH DEPARTMENT FOR THE REQUIRED INSPECTIONS.

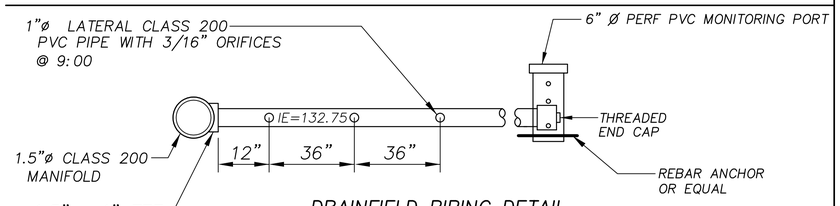
OWNER/INSTALLER SHALL NOT REMOVE ANY TOPSOIL WHILE REMOVING TREES AND STUMPS IN DRAINFIELD AREA. REMOVAL OF TOPSOIL COULD RENDER SITE UNUSABLE.

CONTRACTORS SHALL MAINTAIN A TEN(10) FOOT MINIMUM HORIZONTAL SEPARATION BETWEEN ANY WATER MAINS AND ALL SEPTIC SYSTEM COMPONENTS UNLESS OTHERWISE SPECIFIED.

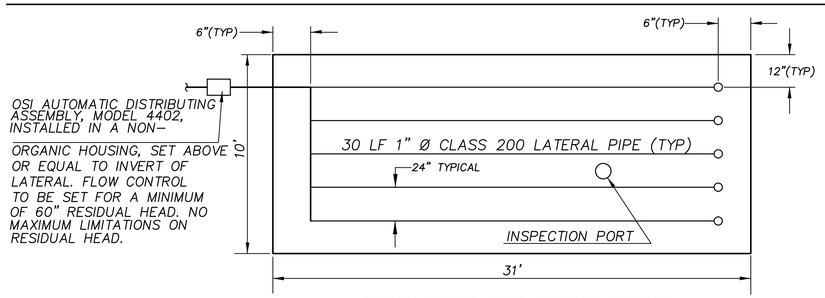
THE CONTRACTOR SHALL FIELD VERIFY ALL CONTOURS, STUB OUT ELEVATIONS, AND TRENCH DEPTHS IN DRAINFIELD AREAS PRIOR TO CONSTRUCTION.

EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN PLOTTED FROM THE BEST INFORMATION AVAILABLE TO THE ENGINEER. ACCURACY AND COMPLETENESS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LOCATE OR HAVE LOCATED ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION.

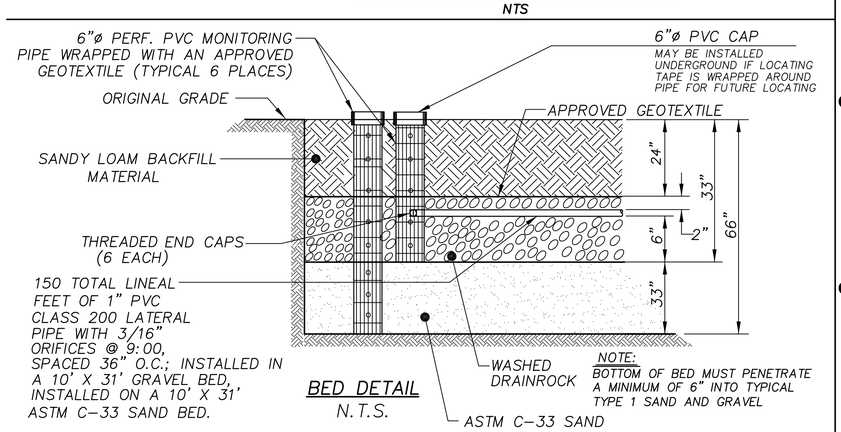
ALL SEPTIC TANKS AND PUMP TANKS MUST HAVE INSPECTION ACCESS AT FINISHED GRADE



DRAINFIELD PIPING DETAIL
CLASS 200 PVC (TYPICAL) N.T.S.



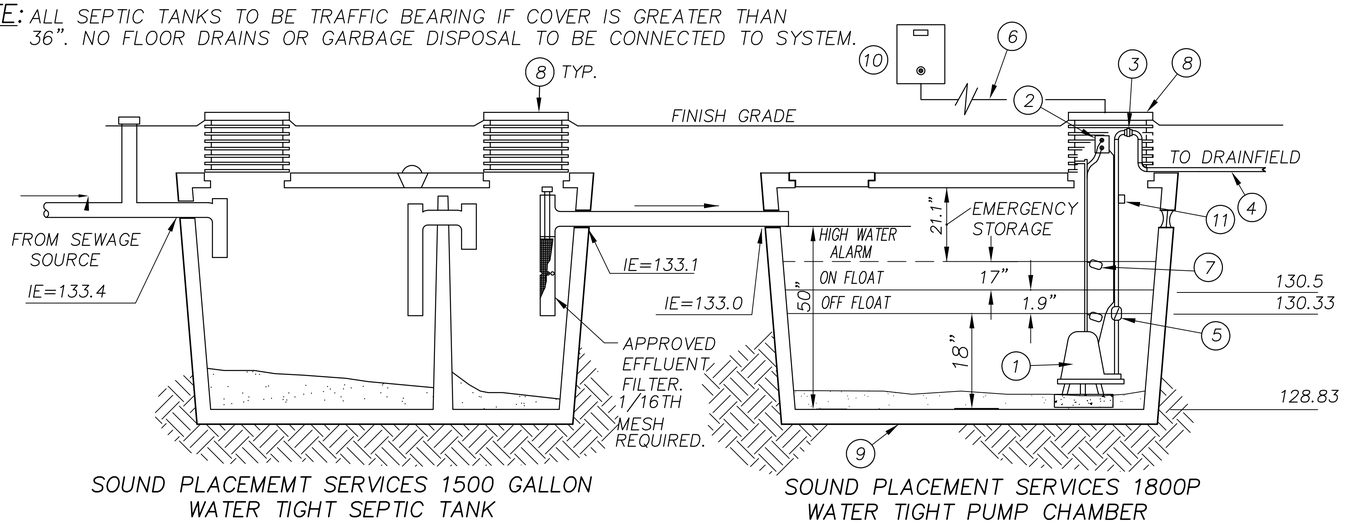
SAND LINED BED PIPING DETAIL
NTS



BED DETAIL
N.T.S.

NOTE:
BOTTOM OF BED MUST PENETRATE A MINIMUM OF 6" INTO TYPICAL TYPE 1 SAND AND GRAVEL

NOTE: ALL SEPTIC TANKS TO BE TRAFFIC BEARING IF COVER IS GREATER THAN 36". NO FLOOR DRAINS OR GARBAGE DISPOSAL TO BE CONNECTED TO SYSTEM.



SEPTIC TANK & PUMP CHAMBER DETAIL N.T.S.

1. SEWAGE PUMP – HYDROMATIC SP-50 OR EQUAL SET ON 4" x 16" CONCRETE BLOCK
2. JUNCTION BOX ("ORENCO" WATERPROOF)
3. 1.5"ø THREADED UNION
4. 1.5" CLASS 200 PVC DELIVERY PIPE
5. 1.5"ø CHECK VALVE
6. CORD TO POWER SOURCE IN ALARM PANEL ON POST OR BLDG.
7. MERCURY FLOAT SWITCHES – ATTACH TO SECURED PVC PIPE & SET FOR PUMP CYCLE
8. WATERTIGHT 24" "ORENCO" RIBBED PVC PIPE RISER WITH GAS TIGHT LID
9. 1800P GAL. WATERTIGHT PUMP CHAMBER WITH A WATERTIGHT RISER & LID. IF DIFFERENT PUMP CHAMBER OR PUMP IS USED, THE MERCURY FLOAT SWITCH SETTING MAY CHANGE.
   DOSE VOLUME = 62 GALLONS ±
10. "ORENCO" CONTROL/ALARM PANEL WITH DOSE CYCLE COUNTER & HOUR METER
    MVP-SI-PTRO TIMER SETTING:
    PUMP ON: 2.2 MIN.
    PUMP OFF: 2.4 HR.
11. ANTI-SIPHON HOLE OR DEVICE IF LATERAL IE IS LESS THAN PUMP ELEVATION.

SOIL LOGS (12/12/13)

#1	0"–5"	10YR3/2 SILT LOAM–MODERATE SUBANGULAR BLOCKY, COARSE FRAGMENTS <1%–TYPE 5
	5"–12"	10YR5/2 SILTY CLAY LOAM, STRONG SUBANGULAR BLOCKY, COARSE FRAGMENTS <1%–TYPE 5
	12"–33"	10YR5/3 SILTY CLAY LOAM, STRONG SUBANGULAR BLOCKY, COARSE FRAGMENTS <1%–TYPE 5
	33"–43"	10YR5/2 FINE–VERY FINE SAND, SINGLE GRAINED, COARSE FRAGMENTS <1%, DENSE–TYPE 5
	43"–60"	10YR4/6 VERY GRAVELLY COARSE SAND, SINGLE GRAINED COARSE FRAGMENTS <55%, DENSE–TYPE 1
	60"–100"	10YR5/2 EXTREMELY GRAVELLY COARSE SAND, SINGLE GRAINED, COARSE FRAGMENTS <80%–TYPE 1 NO RESTRICTIVE HORIZONS, FINE ROOTS TO 43"
#2	0"–5"	10YR3/2 SILT LOAM–MODERATE SUBANGULAR BLOCKY, COARSE FRAGMENTS <1%–TYPE 5
	5"–11"	10YR5/2 SILTY CLAY LOAM, STRONG SUBANGULAR BLOCKY, COARSE FRAGMENTS <1%–TYPE 5
	11"–33"	10YR5/3 SILTY CLAY LOAM, STRONG SUBANGULAR BLOCKY, COARSE FRAGMENTS <1%–TYPE 5
	33"–47"	10YR5/2 VERY GRAVELLY COARSE SAND, SINGLE GRAINED, COARSE FRAGMENTS <1%, DENSE–TYPE 1
	47"–96"	10YR4/6 EXTREMELY GRAVELLY COARSE SAND, SINGLE GRAINED, COARSE FRAGMENTS <75%–TYPE 1 NO RESTRICTIVE HORIZONS, FINE ROOTS TO 47"
#3	0"–5"	10YR3/2 SILT LOAM–MODERATE SUBANGULAR BLOCKY, COARSE FRAGMENTS <1%–TYPE 5
	5"–11"	10YR5/2 SILTY CLAY LOAM, STRONG SUBANGULAR BLOCKY, COARSE FRAGMENTS <1%–TYPE 5
	11"–38"	10YR5/3 SILTY CLAY LOAM, STRONG SUBANGULAR BLOCKY, COARSE FRAGMENTS <1%–TYPE 5
	38"–47"	10YR5/2 GRAVELLY VERY FINE SAND, SINGLE GRAINED, COARSE FRAGMENTS <15%, DENSE–TYPE 5
	47"–54"	10YR4/6 VERY GRAVELLY COARSE SAND, SINGLE GRAINED, COARSE FRAGMENTS <55%, DENSE–TYPE 1
	54"–80"	10YR5/2 EXTREMELY GRAVELLY COARSE SAND, SINGLE GRAINED, COARSE FRAGMENTS <80% –TYPE 1
	80"–98"	10YR5/1 COARSE SAND, SINGLE GRAINED, COARSE FRAGMENTS<20%–TYPE 2 NO RESTRICTIVE HORIZONS, FINE ROOTS TO 47"
#4	0"–5"	10YR3/2 SILT LOAM–MODERATE SUBANGULAR BLOCKY, COARSE FRAGMENTS <1%–TYPE 5
	5"–11"	10YR5/2 SILTY CLAY LOAM, STRONG SUBANGULAR BLOCKY, COARSE FRAGMENTS <1%–TYPE 5
	11"–34"	10YR5/3 SILTY CLAY LOAM, STRONG SUBANGULAR BLOCKY, COARSE FRAGMENTS <1%–TYPE 5
	34"–58"	10YR4/6 GRAVELLY COARSE SAND, SINGLE GRAINED, COARSE FRAGMENTS <15%, DENSE–TYPE 2
	58"–72"	10YR4/6 GRAVELLY COARSE SAND, SINGLE GRAINED, COARSE FRAGMENTS <20%, DENSE–TYPE 2
	72"–96"	10YR5/2 COARSE SAND, SINGLE GRAINED, COARSE FRAGMENTS <10%–TYPE 2 NO RESTRICTIVE HORIZONS, FINE ROOTS TO 34"

DESIGN CRITERIA

WASTEWATER GENERATION/DAY: 615 GPD

SOIL CLASSIFICATION: COARSE SAND & GRAVEL–TYPE 1

LOADING RATE: 1.0 GPD/ SF

REQUIRED DRAINFIELD AREA: $\frac{615 \text{ GPD}}{1.0 \text{ GPD/SF}} = 615$ S.F.

FOR A 10 FT. WIDE BED: $\frac{615 \text{ S.F.}}{10 \text{ FT.}} = 61.5$ LF

ASSUME 2 SEPARATE CELLS: $\frac{61.5}{2} = 31$ LF

DIMENSIONS FOR SAND LINED BED: 10' X 31" BED

TIMER CONTROLED DOSING FREQUENCY: DRAINFIELD — 5 TIMES/DAY PER POD, 10 TIMES/DAY TOTAL

TIMER CONTROLED PUMP CYCLE: PUMP ON: 2.2 MINUTES, PUMP OFF: 2.4 HRS

DOSING VOLUME: 62 GALLONS

RESERVE AREA: SAME CRITERIA

RESERVE AREA PROVIDED: 10' X 31' X 2= 620 SF

NOTE:

VALUES PER EPA ONSITE WASTEWATER TREATMENT SYSTEMS MANUAL 2/2002(PAGES 3–7, 3–8)

20 EMPLOYEES @ 13 GPD/EMPLOYEE: 260 GPD(OFFICE SPACE VALUES)

TRAINING ROOM WITH 50 SEATS @ 3GPD/SEAT: 150 GPD (ASSEMBLY HALL VALUES)

TOTAL GALLONS PER DAY = 410
FOR COMMERCIAL INCREASE TO 150%: 1.5 x 410=615 GPD

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12 09 13	60% CD
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WILLIAM W. PARNELL III — STATE OF WASHINGTON — 26162 — REGISTERED PROFESSIONAL ENGINEER

Sheet Title
SEPTIC DESIGN

Drawn By . Checked By .

Sheet Number
-

Sheet Number 3 Of 4

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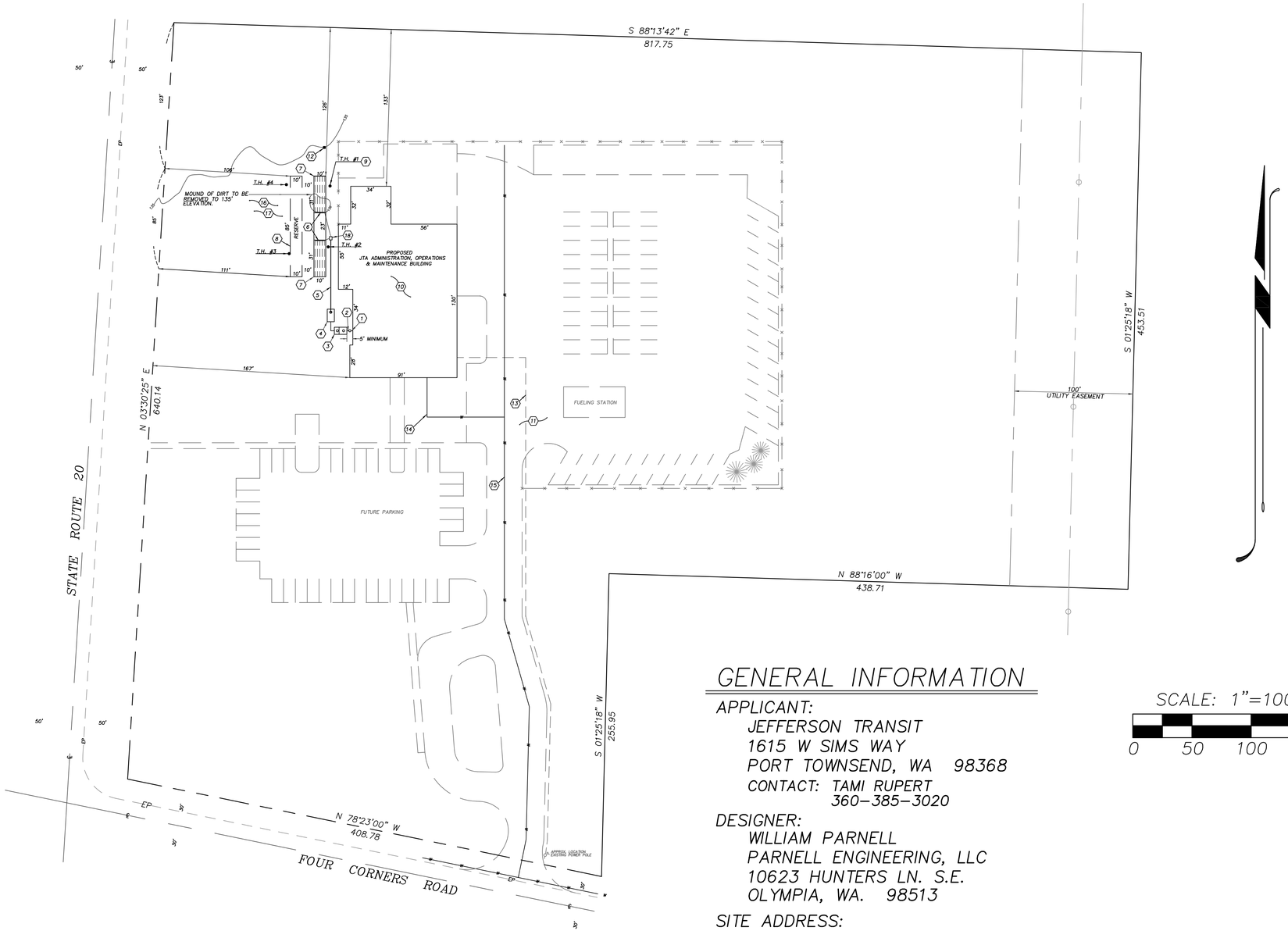

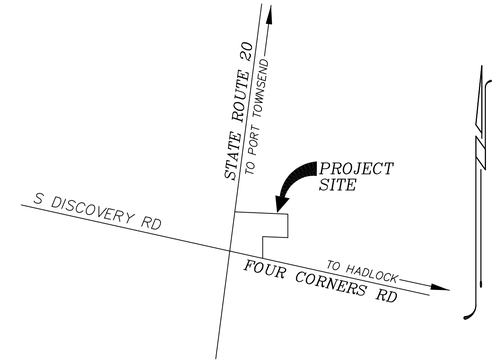

VICINITY MAP

NTS

GENERAL INFORMATION

APPLICANT:
JEFFERSON TRANSIT
1615 W SIMS WAY
PORT TOWNSEND, WA 98368
CONTACT: TAMI RUPERT
360-385-3020

DESIGNER:
WILLIAM PARNELL
PARNELL ENGINEERING, LLC
10623 HUNTERS LN. S.E.
OLYMPIA, WA. 98513

SITE ADDRESS:
FOUR CORNERS & STATE ROUTE 20
PORT TOWNSEND, WA 98368

T.P.N.:
001332009

JCEH PERMIT NUMBER:

WATER SUPPLY:
JEFFERSON COUNTY, PUD

SCALE: 1"=100 FEET

0 50 100 200

SEPTIC SYSTEM NOTES

1. 4"ø PVC ASTM 3034 STUB-OUT AND CLEAN-OUT SET RIM @ FINISHED GRADE. STUB-OUT IE = 133.5
2. 4"ø PVC ASTM 3034 TIGHTLINE @ MIN. S = 0.02 FT./FT.
3. 1500 GAL. STEP TANK, SOUND PLACEMENT SERVICES, 2 CHAMBER WATERTIGHT CONCRETE SEPTIC TANK W/APPROVED EFFLUENT FILTER(SEE SEPTIC TANK DETAIL)
4. 1800P GAL. SOUND PLACEMENT SERVICES 1 CHAMBER WATERTIGHT CONCRETE PUMP CHAMBER. (SEE PUMP CHAMBER DETAIL)
5. 65' LF 1.5"ø CLASS 200 FORCEMAIN
6. 8 LINEAL OF 1.5"ø CLASS 200 MANIFOLD
7. 10' X 31' SAND LINED BED (SEE BED DETAIL)
8. RESERVE AREA
9. SOIL TEST PIT (4 EACH)
10. JEFFERSON COUNTY TRANSIT AUTHORITY BUILDING. PROPOSED F.F. ELEV = 137.0
11. PROPOSED ENTRANCE DRIVEWAY/ PARKING
12. T.B.M.: 2" X 2" HUB ELEV.=135.00 ASSUMED
13. PROPOSED POWER LINE
14. PROPOSED WATER SERVICE LINE
15. PROPOSED WATER MAIN SERVICE
16. BUILDING ENVELOPE LIMITS ENCOMPASSES THAT AREA OUTSIDE OF AND PROPERLY SETBACK FROM:
    a. THE SEPTIC DRAINFIELD AND RESERVE AREAS
    b. ALL PROPERTY LINES AND EASEMENTS
17. NO WELLS LOCATED WITHIN 100' OF PROPERTY LINES
18. OSI AUTOMATIC DISTRIBUTION ASSEMBLY (SEE BED DETAIL)

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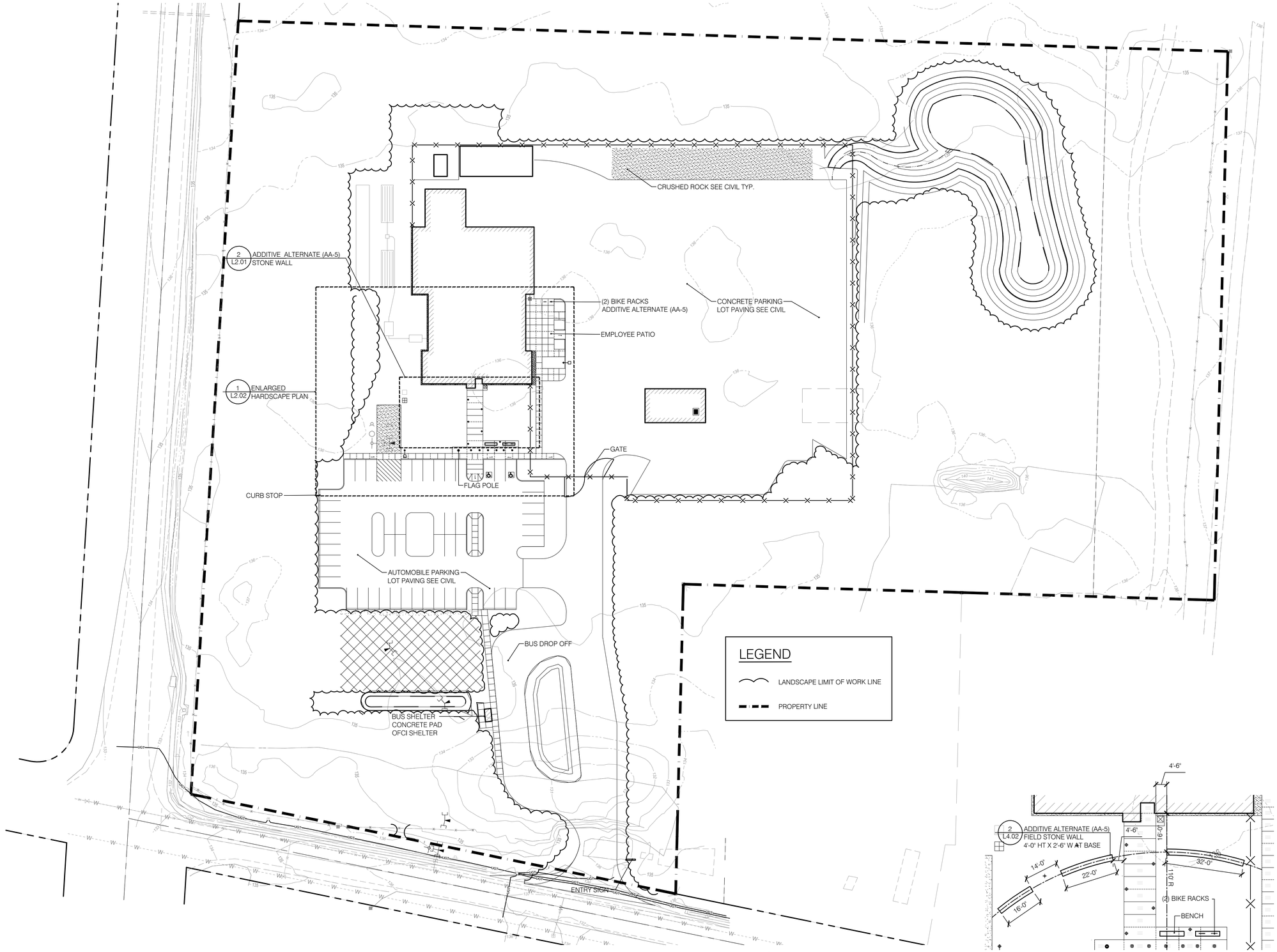

1 SITE PLAN
SCALE: 1"=40'-0

0 20' 40' 80'
SCALE: 1"=40'-0"

2 ADDITIVE ALTERNATE (AA-5)
SCALE: 1"=20'-0

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STEVEN P. SHEA
LICENSE NO. 261
EXPIRES ON: 6/26/2014

Sheet Title
OVERALL HARDSCAPE PLAN

Drawn By: MKH
Checked By: SS

Sheet Number
L2.01

Sheet Number 39 Of 203

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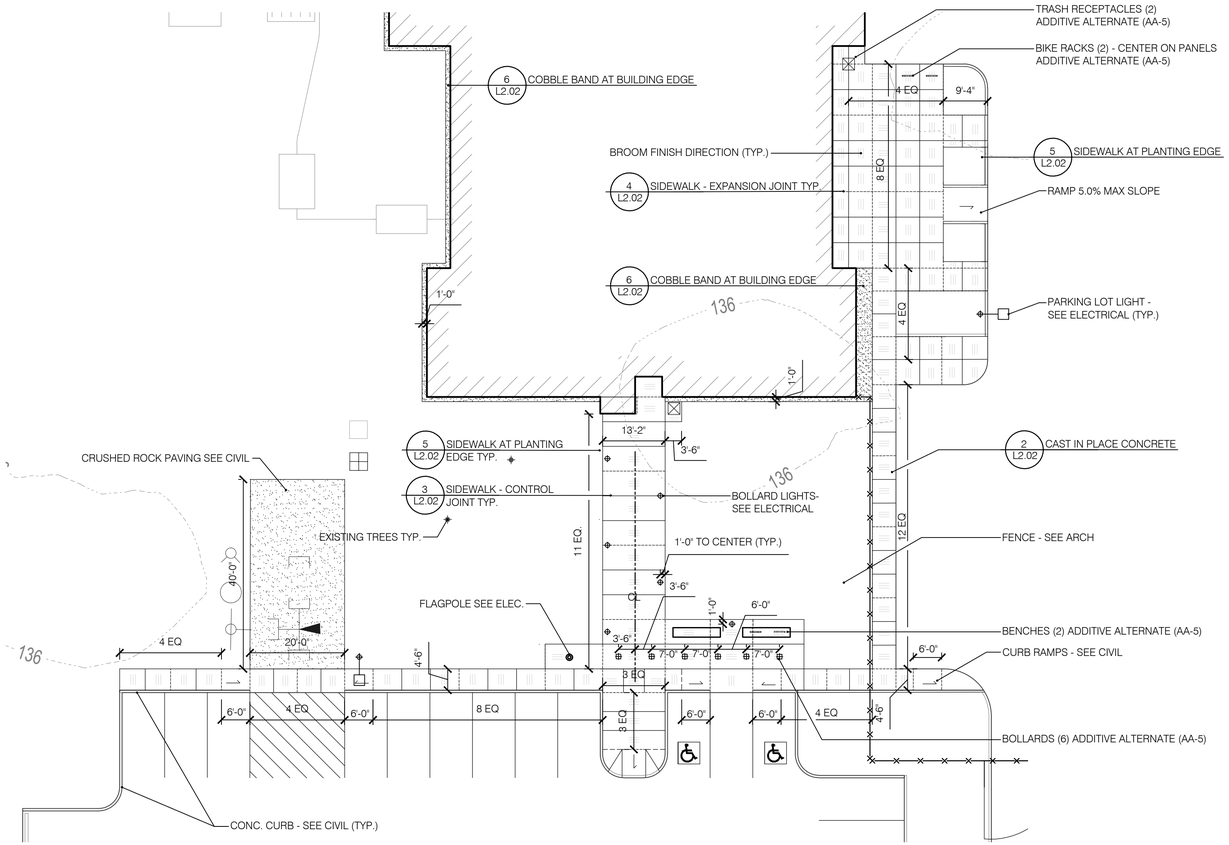
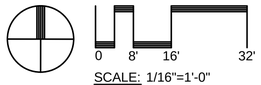


1 ENLARGED HARDSCAPE PLAN

SCALE: 1/16"=1'-0"



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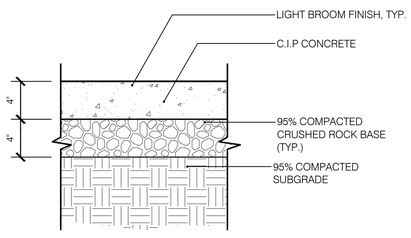
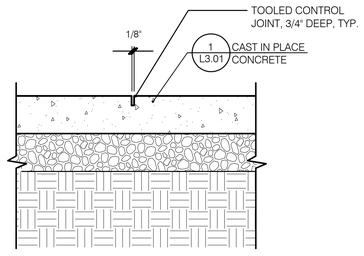


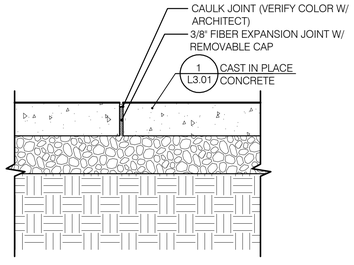
2 CAST IN PLACE CONCRETE

SCALE: 1 1/2" = 1'-0"



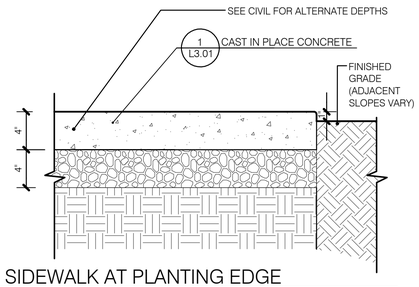
3 SIDEWALK - CONTROL JOINT

SCALE: 1 1/2" = 1'-0"



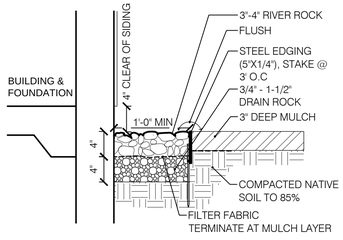
4 SIDEWALK - EXPANSION JOINT

SCALE: 1 1/2" = 1'-0"



5 SIDEWALK AT PLANTING EDGE

SCALE: 1 1/2" = 1'-0"



6 COBBLE BAND AT BUILDING EDGE

SCALE: 1" = 1'-0"

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STEVEMP. SHEA
LICENSE NO. 261
EXPIRES ON: 6/26/2014

Sheet Title
ENLARGED HARDSCAPE PLAN AND DETAILS

Drawn By MKH
Checked By SS

Sheet Number
L2.02

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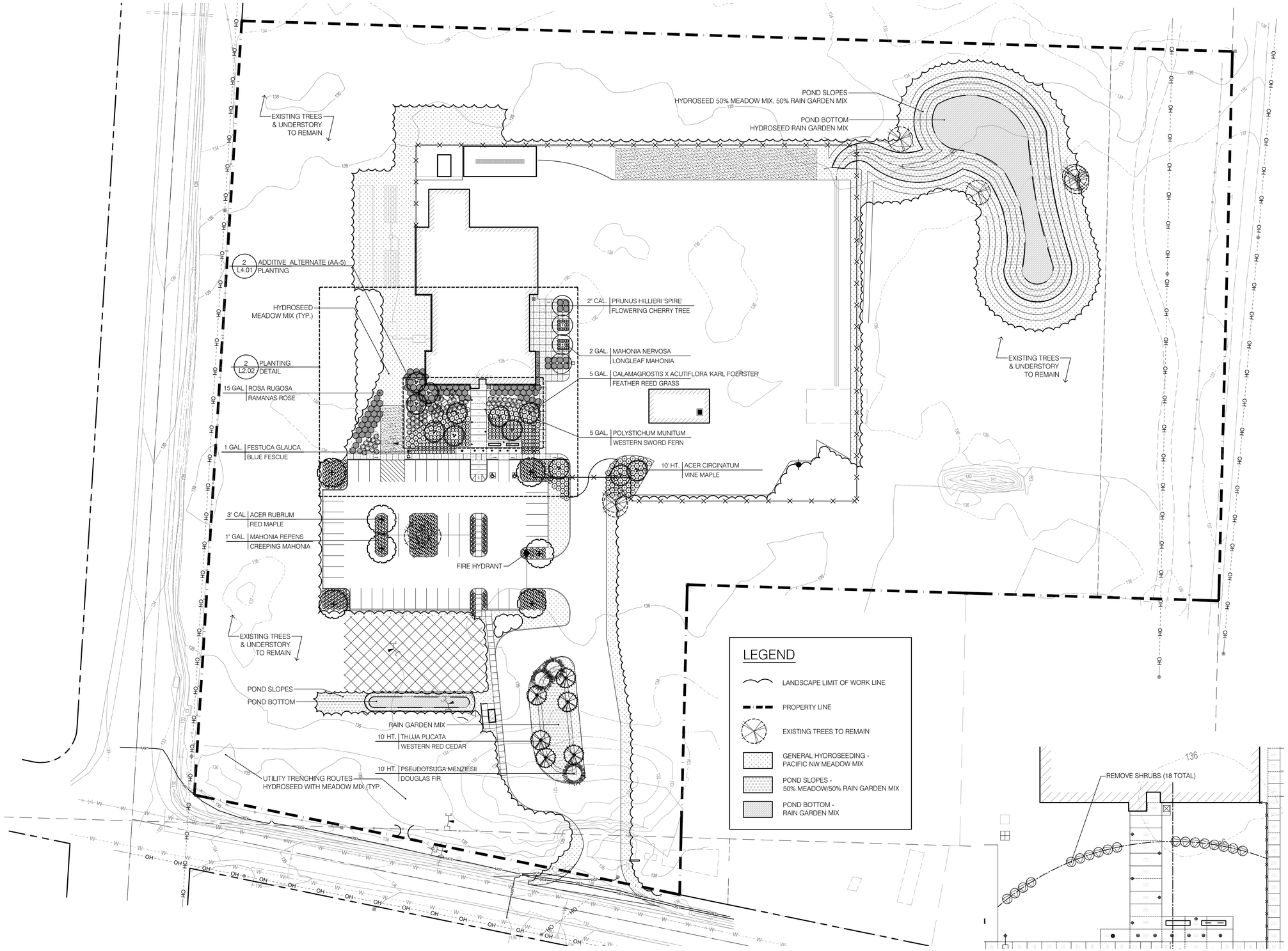

1 SITE PLAN
SCALE: 1"=40'-0

2 ADDITIVE ALTERNATE (AA-5)
SCALE: 1"=20'-0

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Sheet Title
PLANTING PLAN

Drawn By: MKH
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Sheet Number
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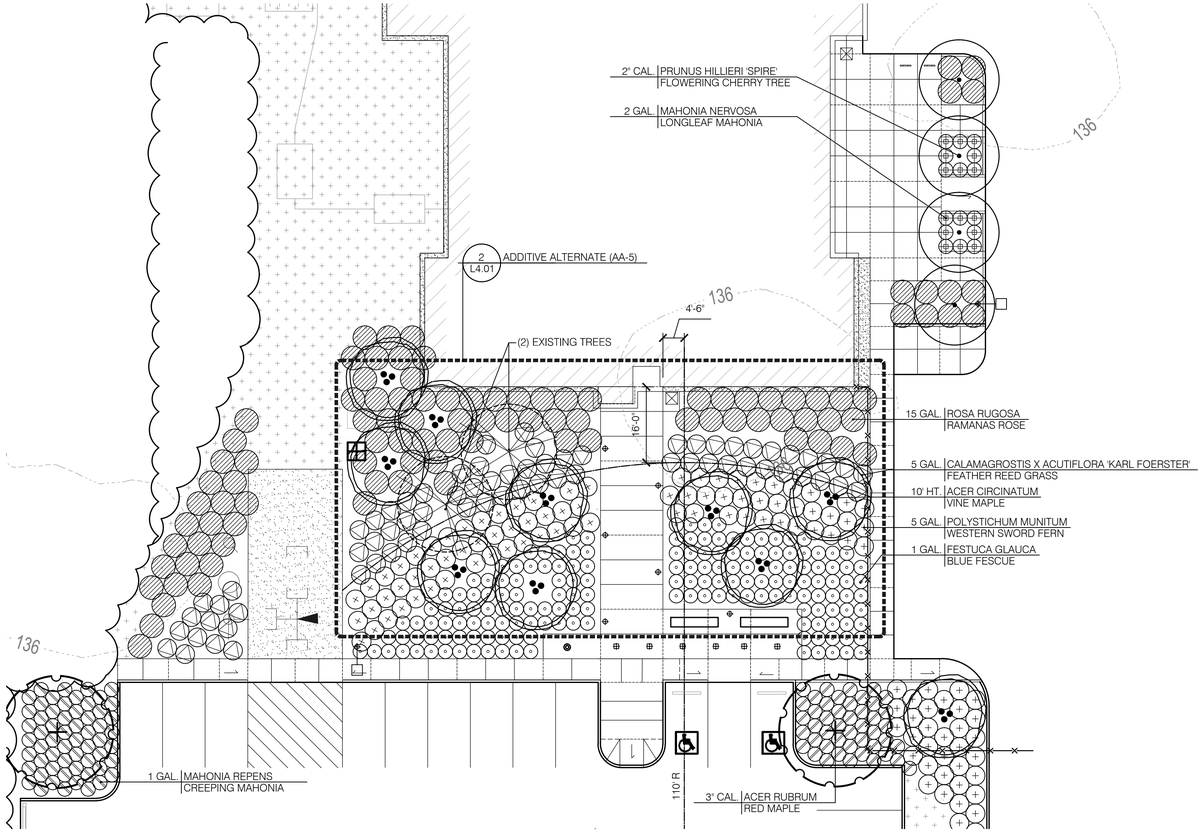
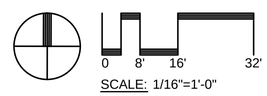
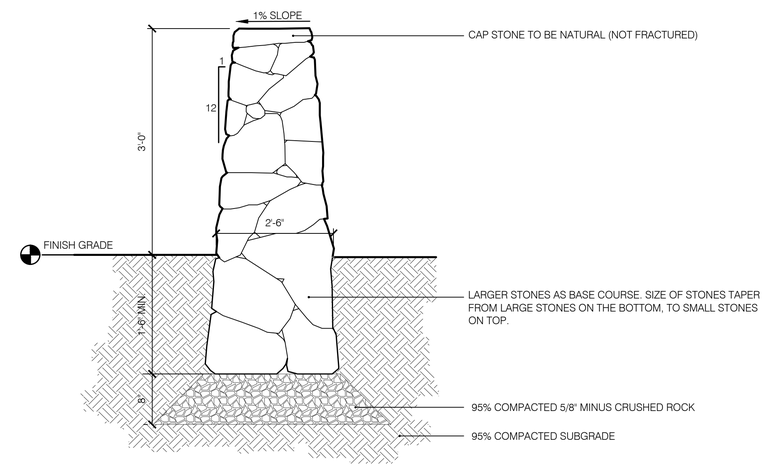
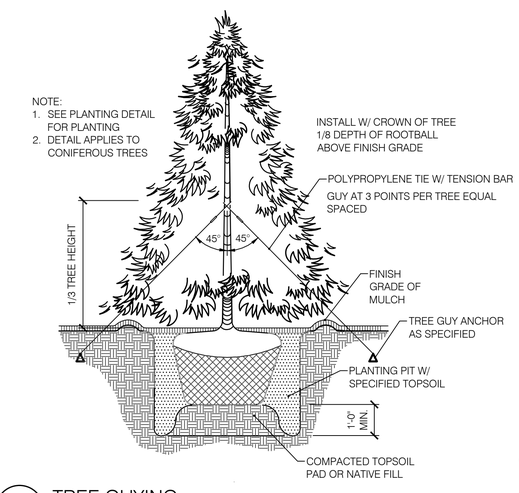


1 ENLARGED PLANTING PLAN
SCALE: 1/16" = 1'-0"

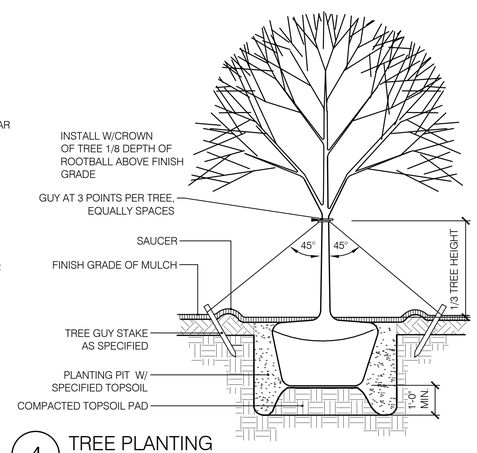




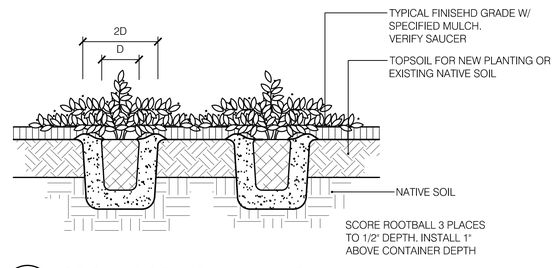
2 ADDITIVE ALTERNATE (AA-5) FIELD STONE WALL
SCALE: 1" = 1'-0"



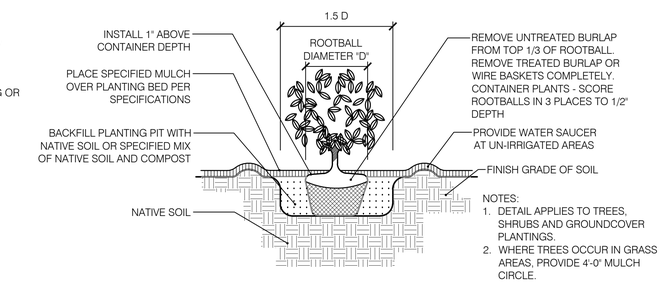
3 TREE GUYING
SCALE: 1/16" = 1'-0"



4 TREE PLANTING
SCALE: 1/16" = 1'-0"



5 GROUNDCOVER PLANTING
SCALE: 1" = 1'-0"



6 SHRUB PLANTING
SCALE: 1/2" = 1'-0"

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STEVEN P. SHEA
LICENSE NO. 261
EXPIRES ON: 6/26/2014

Sheet Title
PLANTING DETAILS

Drawn By: MKH
Checked By: SS

Sheet Number
L4.02

Sheet Number 42 Of 203

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PLANTING SCHEDULE:

	SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
TREES -						
1		12	ACER CIRCINATUM	VINE MAPLE	10' HT.	B&B MULTISTEMMED
2		7	ACER RUBRUM	RED MAPLE	3 CAL.	B&B MATCHED
3		4	PRUNUS HILLIERI 'SPIRE'	FLOWERING CHERRY TREE	2 CAL.	B&B MATCHED
4		3	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	12' HT.	B&B FULL HEAVY GROWTH
5		6	THUJA PLICATA	WESTERN RED CEDAR	12' HT.	B&B FULL HEAVY GROWTH

SHRUBS AND GROUNDCOVERS -

	SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
1		70	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	FEATHER REED GRASS	5 GAL	CONTAINER, FULL HEAVY GROWTH
2		168	FESTUCA GLAUCA	FESTUCA GLAUCA	1 GAL	CONTAINER, FULL HEAVY GROWTH
3		16	MAHONIA NERVOSA	LONGLEAF MAHONIA	2 GAL	CONTAINER, FULL HEAVY GROWTH
4		412	MAHONIA REPENS	CREEPING MAHONIA	1 GAL	CONTAINER, FULL HEAVY GROWTH
5		175	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	5 GAL	CONTAINER, FULL HEAVY GROWTH
6		99	ROSA RUGOSA	RAMANAS ROSE	15 GAL	CONTAINER, FULL HEAVY GROWTH

RAIN GARDEN
SUNMARK MARSH MIX

HYDROSEED
PACIFIC NW MEADOW MIX

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PLANTING SCHEDULE

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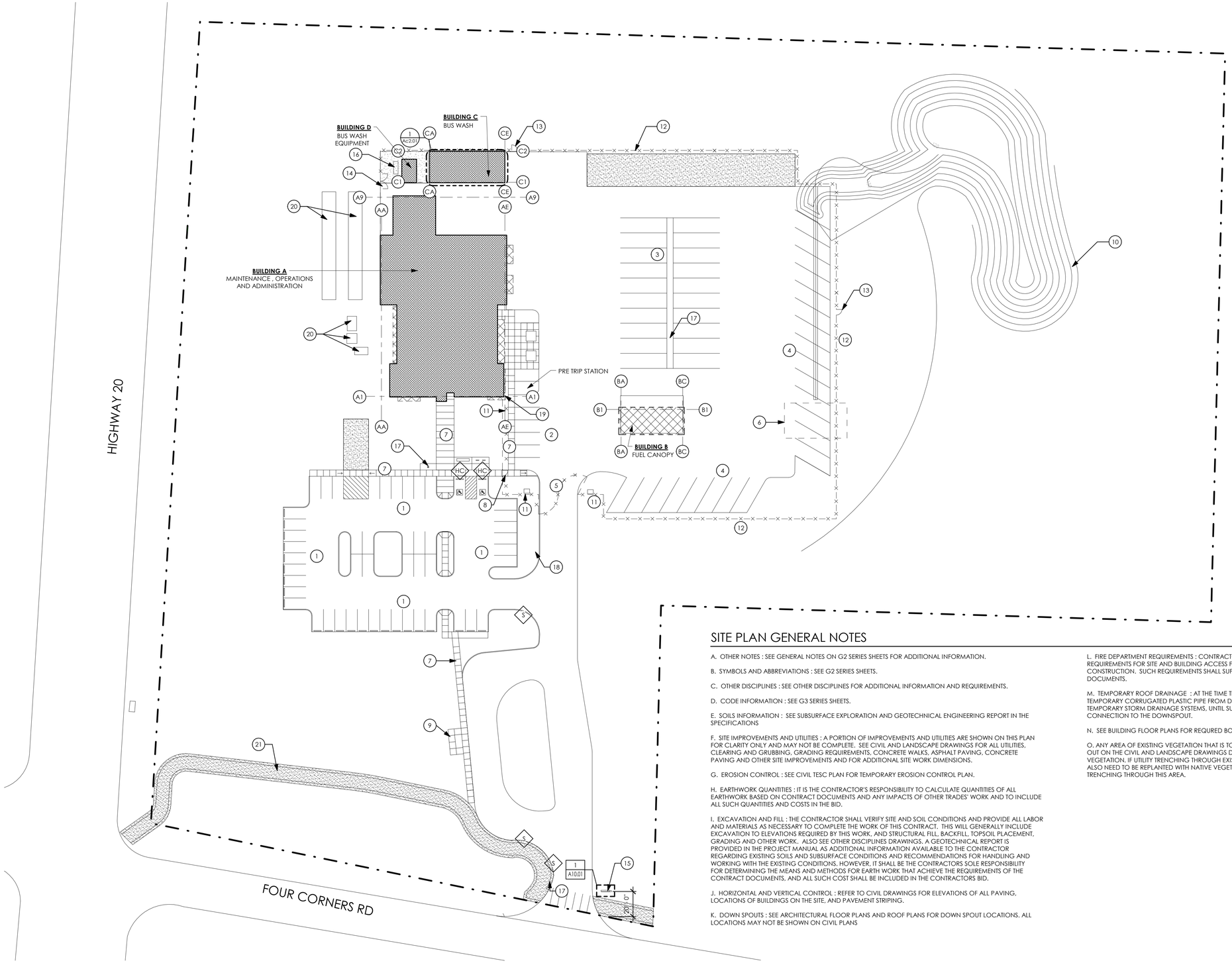

SITE PLAN KEYNOTES

1. VISITOR / EMPLOYEE PARKING STALLS (50) SEE CIVIL FOR BASE BID AND ADDITIVE ALTERNATE SURFACING
2. SECURE SMALL JTA PARKING STALLS (6)
3. SECURE FIXED ROUTE BUS PARKING (20)
4. SECURE PARKING OWNER-OWNED VEHICLES (22)
5. ORNAMENTAL SWING GATES, (2) GATE OPERATORS, ONE FOR EACH LEAF, SEE CIVIL & ELECTRICAL DRAWINGS
6. FUTURE BUS WASH BUILDING LOCATION, SEE CIVIL AND ELECTRICAL DRAWINGS FOR UTILITY STUB OUTS
7. CONC. WALK, SEE LANDSCAPE & CIVIL DRAWINGS
8. PERSONNEL GATE, SEE 1 / A10.00
9. BUS SHELTER, OFCI. COORDINATE WITH OWNER
10. STORMWATER SWALE, SEE CIVIL DRAWINGS
11. 7' ORNAMENTAL FENCE, SEE CIVIL DRAWINGS AND 2 / A10.00
12. 6' HIGH CHAINLINK FENCE WITH BLACK VINYL COATING AND 3 STRAND BARB WIRE, SEE CIVIL DRAWINGS FOR DETAILS
13. PERSONNEL GATE, CHAINLINK FENCE
14. 12' CHAINLINK SWING GATE, SEE CIVIL DRAWINGS FOR DETAILS
15. MONUMENT SIGN (H) 1 / A10.01 COORDINATE EXACT LOCATION W/ ARCHITECT
16. EXISTING GENERATOR, SET ON NEW CONCRETE PAD SEE ELECTRICAL DRAWINGS
17. FLAG POLE, SEE ELECTRICAL AND LANDSCAPE DRAWINGS
18. PEDESTAL FOR GATE OPERATION, SEE ELECTRICAL & CIVIL DRAWINGS
19. FENCE TO BUILDING, SEE 2 / A10.00 FOR ALIGNMENT
20. SEPTIC SYSTEM, SEE CIVIL DRAWINGS
21. ROUTE OF POSSIBLE FUTURE TRAIL

SITE PLAN LEGEND

- (S) STOP SIGN, SEE 4 / A10.00
- (HC) HANDICAPPED STALL SIGN, SEE 3 / A10.00
- ENCLOSED BUILDING
- CANOPY COVERED BUILDING
- CRUSHED ROCK, SEE LANDSCAPE AND CIVIL DRAWINGS
- SIGN, SEE SIGNAGE SCHEDULE
- PROPERTY LINE
- FENCING, SEE

SITE PLAN GENERAL NOTES

A. OTHER NOTES : SEE GENERAL NOTES ON G2 SERIES SHEETS FOR ADDITIONAL INFORMATION.

B. SYMBOLS AND ABBREVIATIONS : SEE G2 SERIES SHEETS.

C. OTHER DISCIPLINES : SEE OTHER DISCIPLINES FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

D. CODE INFORMATION : SEE G3 SERIES SHEETS.

E. SOILS INFORMATION : SEE SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING REPORT IN THE SPECIFICATIONS

F. SITE IMPROVEMENTS AND UTILITIES : A PORTION OF IMPROVEMENTS AND UTILITIES ARE SHOWN ON THIS PLAN FOR CLARITY ONLY AND MAY NOT BE COMPLETE. SEE CIVIL AND LANDSCAPE DRAWINGS FOR ALL UTILITIES, CLEARING AND GRUBBING, GRADING REQUIREMENTS, CONCRETE WALKS, ASPHALT PAVING, CONCRETE PAVING AND OTHER SITE IMPROVEMENTS AND FOR ADDITIONAL SITE WORK DIMENSIONS.

G. EROSION CONTROL : SEE CIVIL TESC PLAN FOR TEMPORARY EROSION CONTROL PLAN.

H. EARTHWORK QUANTITIES : IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALCULATE QUANTITIES OF ALL EARTHWORK BASED ON CONTRACT DOCUMENTS AND ANY IMPACTS OF OTHER TRADES' WORK AND TO INCLUDE ALL SUCH QUANTITIES AND COSTS IN THE BID.

I. EXCAVATION AND FILL : THE CONTRACTOR SHALL VERIFY SITE AND SOIL CONDITIONS AND PROVIDE ALL LABOR AND MATERIALS AS NECESSARY TO COMPLETE THE WORK OF THIS CONTRACT. THIS WILL GENERALLY INCLUDE EXCAVATION TO ELEVATIONS REQUIRED BY THIS WORK, AND STRUCTURAL FILL, BACKFILL, TOPSOIL PLACEMENT, GRADING AND OTHER WORK. ALSO SEE OTHER DISCIPLINES DRAWINGS. A GEOTECHNICAL REPORT IS PROVIDED IN THE PROJECT MANUAL AS ADDITIONAL INFORMATION AVAILABLE TO THE CONTRACTOR REGARDING EXISTING SOILS AND SUBSURFACE CONDITIONS AND RECOMMENDATIONS FOR HANDLING AND WORKING WITH THE EXISTING CONDITIONS. HOWEVER, IT SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY FOR DETERMINING THE MEANS AND METHODS FOR EARTH WORK THAT ACHIEVE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, AND ALL SUCH COST SHALL BE INCLUDED IN THE CONTRACTORS BID.

J. HORIZONTAL AND VERTICAL CONTROL : REFER TO CIVIL DRAWINGS FOR ELEVATIONS OF ALL PAVING, LOCATIONS OF BUILDINGS ON THE SITE, AND PAVEMENT STRIPING.

K. DOWN SPOUTS : SEE ARCHITECTURAL FLOOR PLANS AND ROOF PLANS FOR DOWN SPOUT LOCATIONS. ALL LOCATIONS MAY NOT BE SHOWN ON CIVIL PLANS

L. FIRE DEPARTMENT REQUIREMENTS : CONTRACTOR SHALL ASCERTAIN AND COMPLY WITH THE FIRE DEPARTMENT'S REQUIREMENTS FOR SITE AND BUILDING ACCESS FOR THE PURPOSE OF FIRE FIGHTING THROUGHOUT THE TERM OF CONSTRUCTION. SUCH REQUIREMENTS SHALL SUPERSEDE ANY CONFLICTING DIRECTION FOUND IN THESE DOCUMENTS.

M. TEMPORARY ROOF DRAINAGE : AT THE TIME THE ROOF GUTTERS & DOWN SPOUTS ARE INSTALLED, PROVIDE TEMPORARY CORRUGATED PLASTIC PIPE FROM DOWNSPOUTS TO DIRECT WATER AWAY FROM THE BUILDING TO TEMPORARY STORM DRAINAGE SYSTEMS, UNTIL SUCH TIME AS THE FINAL STORM DRAINAGE SYSTEM IS READY FOR CONNECTION TO THE DOWNSPOUT.

N. SEE BUILDING FLOOR PLANS FOR REQURED BOLLARDS & LOCATIONS

O. ANY AREA OF EXISTING VEGETATION THAT IS TO REMAIN AND IS DISTURBED BEYOND THE LIMITS OF WORK AS CALLED OUT ON THE CIVIL AND LANDSCAPE DRAWINGS DURING CONSTRUCTION IS TO BE REPLANTED WITH NATIVE VEGETATION. IF UTILITY TRENCHING THROUGH EXISTING VEGETATION THAT IS TO REMAIN IS REQUIRED, THIS AREA WILL ALSO NEED TO BE REPLANTED WITH NATIVE VEGETATION. CONTRACTOR IS TO TAKE CARE TO AVOID TREES WHILE TRENCHING THROUGH THIS AREA.

1 SITE PLAN
1" = 40'-0"

N

5617 REGISTERED ARCHITECT
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11 04 13	100% DD
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NOTE: DRAWING MAY BE REDUCED
0 20' 40' 80'

Sheet Title
ARCHITECTURAL SITE PLAN

Drawn By MR
Checked By MH

Sheet Number
A1.01

Sheet Number 44 Of 203

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ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	LIGHTING
	LED LIGHT BOLLARD (ARROW INDICATES DIRECTION OF AIMING FOR OPTICS)
	LED FLOOR SIGN / FLAG POLE FIXTURE (ARROW INDICATES DIRECTION OF AIMING FOR OPTICS)
	POLE LIGHT FIXTURE (ARROW INDICATES DIRECTION OF AIMING FOR OPTICS)
	RECEPTACLES
	DUPLEX RECEPTACLE
G	DUPLEX RECEPTACLE (G INDICATES GROUND FAULT CIRCUIT INTERRUPTER)
	FOURPLEX RECEPTACLE
	MISCELLANEOUS
1	CONSTRUCTION NOTES
W	W INDICATES WEATHERPROOF FOR ALL DEVICES, PROVIDE LOCKING COVER ON RECEPTACLES.
$	ALL DEVICES WITH LIGHT LINE WEIGHT INDICATES EXISTING TO BE RETAINED

SYMBOL	DESCRIPTION
	EQUIPMENT AND WIRING
	CONDUIT STUB OUT (PROVIDE CONCRETE MARKER ON EXTERIOR)
	DEDICATED CONDUIT HOMERUN TO PANEL & CIRCUIT NUMBERS AS INDICATED ON PLANS
	RACEWAY CONCEALED IN WALL OR CEILING
	RACEWAY CONCEALED UNDERGROUND OR UNDER FLOOR SLAB
	MARKS INDICATE NUMBER OF #12 AWG UNLESS NOTED OTHERWISE
	GROUNDING CONDUCTOR
	FLEXIBLE CONDUIT
	GROUNDING SYSTEM PER CODE
J	JUNCTION BOX - SIZE PER CODE
$M	MANUAL STARTER
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
T	TRANSFORMER
HH	HANDHOLE
	UTILITY POLE

SITE LIGHTING FIXTURE SCHEDULE

SYMBOL	MFR.	MODEL	CATALOG #	LAMP PROPERTIES TYPE	LAMP PROPERTIES TEMP.	VOLTS/WATTS V	VOLTS/WATTS W	DESCRIPTION
AL1	COOPER	MCGRAW-EDSION	GLEON-AA-05-LED-5WQ-BZ-2L POLE:SSS-5A-27-SF-BZ	LED	4000 K	120 V	257 W	30' SINGLE HEAD POLE AREA LED LIGHT FIXTURE WITH TYPE 5 DISTRIBUTION PROVIDE 3' POLE BASE. SEE SHEET E5.01 FOR POLE BASE DETAILS. 20884 LUMENS.
AL2	COOPER	MCGRAW-EDSION	GLEON-AA-05-LED-T3-BZ-2L POLE:SSS-5A-27-SF-BZ	LED	4000 K	120 V	257 W	30' SINGLE HEAD POLE AREA LED LIGHT FIXTURE WITH TYPE 3 DISTRIBUTION WITH SPILL CONTROL. PROVIDE 3' POLE BASE. SEE SHEET E5.01 FOR POLE BASE DETAILS. 19916 LUMENS.
AL3	COOPER	MCGRAW-EDSION	GLEON-AA-05-LED-SL4-BZ-2L POLE:SSS-5A-27-SF-BZ*	LED	4000 K	120 V	257 W	30' SINGLE HEAD POLE AREA LED LIGHT FIXTURE WITH TYPE 4 DISTRIBUTION WITH SPILL CONTROL. PROVIDE 3' POLE BASE. SEE SHEET E5.01 FOR POLE BASE DETAILS. 19671 LUMENS.
AL4	COOPER	MCGRAW-EDSION	GLEON-AA-05--LED-SL3-BZ-2L POLE:SSS-5A-27-SF-BZ*	LED	4000 K	120 V	257 W	30' SINGLE HEAD POLE AREA LED LIGHT FIXTURE WITH TYPE 3 DISTRIBUTION WITH SPILL CONTROL. PROVIDE 3' POLE BASE SEE SHEET E5.01 FOR POLE BASE DETAIL. 19345 LUMENS.
AL5	COOPER	LUMIERE	303-B1-LEDB4-4000-UNV-T4-BZ-36	LED	4000 K	120 V	31 W	3' BOLLARD WITH TYPE 4 DISTRIBUTION. SEE DETAIL ON E5.01. 1044 LUMENS.
AL6	BEGA**	-	7682-LED	LED	4000 K	120 V	20 W	LED SIGN LIGHT FIXTURE. SEE DETAIL ON E5.01. 1158 LUMENS.
AL7	BEGA**	-	7704-LED-379	LED	4000 K	120 V	30 W	LED FLAG POLE FIXTURE. SEE DETAIL ON E5.01. 1712 LUMENS. PROVIDE WITH OUTRIGER ARM.

NOTES:

1.* SEE SHEET E-101 FOR POLE MOUNTED RECEPTACLE OUTLETS. COORDINATE OUTLET JUNCTION BOX AND MOUNTING WITH POLE MANUFACTURER.

2.FOR ALL LIGHTING CONTROLS WHICH INCLUDE DAYLIGHT OR OCCUPANT SENSING AUTOMATIC CONTROLS, AUTOMATIC SHUT-OFF CONTROLS, OCCUPANCY SENSORS, OR AUTOMATIC TIME SWITCHES, AND THE LIGHT CONTROLS SHALL COMPLY WITH WASHINGTON STATE ENERGY CODE TESTING AND COMMISSIONING DOCUMENTATION REQUIREMENTS PER C408.3 OF WASHINGTON STATE ENERGY CODE. A COMPLETE REPORT OF TEST PROCEDURES AND RESULTS SHALL BE PREPARED BY THE PROJECT COMMISSIONING AGENT OR ELECTRICAL CONTRACTOR AND FILED WITH THE OWNER.

3.**MATCH COLOR FINISH OF FLAG POLE.

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2/5/2014

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SITE PLAN ELECTRICAL LEGEND AND LIGHTING FIXTURE SCHEDULE

Drawn By **EW** Checked By **HS**

Sheet Number
E0.01

Sheet Number **45** Of **203**

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GENERAL NOTES

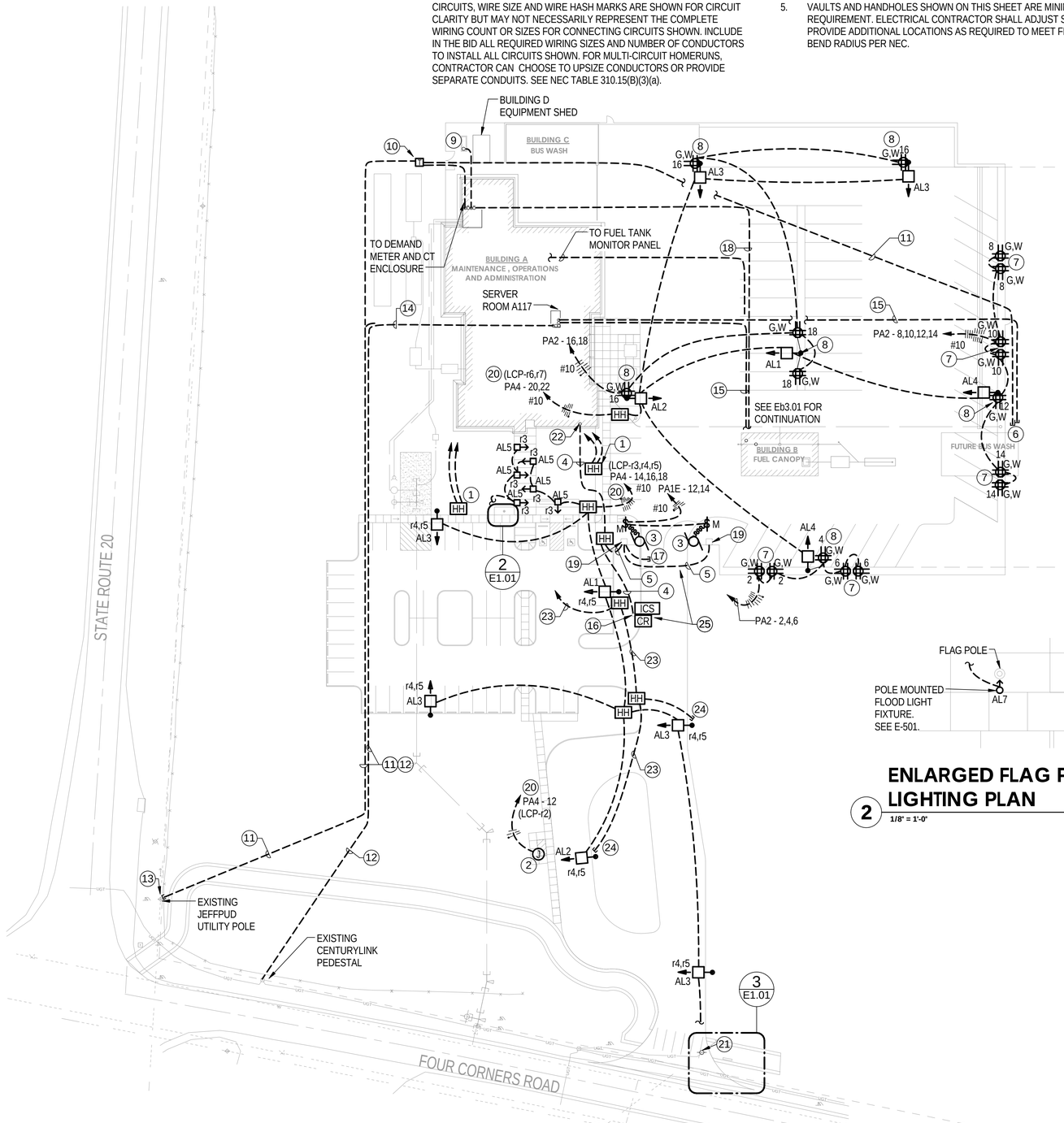
1. CONTRACTOR TO COORDINATE AND COMPLY WITH ALL JEFFERSON PUD (JEFFPUD) REQUIREMENTS.
2. COORDINATE CONDUIT ROUTING AND TRENCHING WITH OTHER UTILITIES.
3. CIRCUITS, WIRE SIZE AND WIRE HASH MARKS ARE SHOWN FOR CIRCUIT CLARITY BUT MAY NOT NECESSARILY REPRESENT THE COMPLETE WIRING COUNT OR SIZES FOR CONNECTING CIRCUITS SHOWN. INCLUDE IN THE BID ALL REQUIRED WIRING SIZES AND NUMBER OF CONDUCTORS TO INSTALL ALL CIRCUITS SHOWN. FOR MULTI-CIRCUIT HOMERUNS, CONTRACTOR CAN CHOOSE TO UPSIZE CONDUCTORS OR PROVIDE SEPARATE CONDUITS. SEE NEC TABLE 310.15(B)(3)(a).

GENERAL NOTES

4. ALL ELECTRICAL UNDERGROUND WORK SHOWN ON THIS SHEET ARE DIAGRAMMATIC TO BEST REPRESENT SUGGESTED ROUTES. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER UNDERGROUND UTILITIES PRIOR TO ROUGH-IN. ALL INSTALLATION SHALL MEET WASHINGTON STATE CODE (WAC) AND NEC.
5. VAULTS AND HANDHOLES SHOWN ON THIS SHEET ARE MINIMUM REQUIREMENT. ELECTRICAL CONTRACTOR SHALL ADJUST SIZE OR PROVIDE ADDITIONAL LOCATIONS AS REQUIRED TO MEET FILL AND BEND RADIUS PER NEC.

CONSTRUCTION NOTES

#	
1	FUTURE ELECTRICAL VEHICLE CHARGING STATION. COORDINATE EXACT LOCATION WITH ARCHITECT. PROVIDE 1" CONDUIT TO PANEL MDB AND 1" CONDUIT FROM SERVER ROOM A117 FOR EACH LOCATION.
2	PROVIDE CONNECTION TO BUS SHELTER LIGHTS. COORDINATE WITH OWNER.
3	(2) GATE OPERATOR MOTOR 208V, 1PH, 1/2HP. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH GATE INSTALLER.
4	PROVIDE (1) 1" UNDERGROUND CONDUIT TO PEDESTAL MOUNTED KEYPAD AND INTERCOM
5	PROVIDE (1) 1" UNDERGROUND CONDUIT FROM COMM ROOM TO GATE CONTROL PANEL. COORDINATE EXACT LOCATION WITH GATE OPERATOR INSTALLER.
6	STUB UP CONDUITS FOR FUTURE WASH BAY BUILDING.
7	BLOCK HEATER PEDESTAL LOCATION. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER. SEE SHEETS E5.01 FOR DETAIL.
8	PROVIDE FOURFLEX RECEPTACLE ON POLE. SEE SHEET E5.01 FOR DETAIL.
9	EXISTING 55KW GENERATOR SET. SEE SHEET E6.01 FOR POWER RISER DIAGRAM AND ADDITIONAL NOTES.
10	PROPOSED UTILITY TRANSFORMER LOCATION. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH JEFFPUD.
11	PROVIDE (1) 2" UNDERGROUND CONDUIT FOR WAVE AND (1) 4" UNDERGROUND CONDUIT FOR JEFFERSON PUD. COORDINATE ALL REQUIREMENTS AND WORK WITH WAVE AND JEFFERSON PUD.
12	PROVIDE (1) 4" UNDERGROUND CONDUIT FOR CENTURYLINK TELEPHONE SERVICE. COORDINATE ALL REQUIREMENTS AND WORK WITH CENTURYLINK.
13	ELECTRICAL CONTRACTOR TO STUB UP CONDUITS 6" AWAY FROM UTILITY POLE. JEFFERSON PUD AND WAVE TO CONTINUE AND PROVIDE CONDUIT RISERS.
14	CONTINUE WAVE AND CENTURYLINK CONDUITS TO SERVER ROOM A117.
15	(3) 1" CONDUITS FOR CONTROLS WIRING. SEE SHEET Eb3.01.
16	ACCESS CONTROL CARD READER AND INTERCOM PEDESTAL LOCATION. STUB CONDUIT INSIDE PEDESTAL TUBE FOR WIRING. COORDINATE INSTALLATION WITH THE GENERAL CONTRACTOR.
17	PROVIDE (1) 3/4" PANEL FEEDER FOR GATE LOOP SENSORS.
18	BUILDING B POWER SERVICE, SEE POWER RISER DIAGRAM ON SHEET E6.00.
19	MOTORIZED GATE CONTROLLER. COORDINATE EXACT LOCATION WITH GATE INSTALLER. PROVIDE ALL REQURIED UNDERGROUND CONDUIT REQUIRED.
20	ROUTE LIGHTING CIRCUITS THROUGH THE LIGHTING CONTROL PANEL "LCP". SEE BUILDING A SHEET Ea0.02 FOR SCHEDULE. PROVIDE #10CU AWG TO ALL EXTERIOR LIGHT FIXTURES.
21	EXISTING OVERHEAD UTILITY LINES AND WOOD POLE TO BE RELOCATED BY JEFFPUD.
22	STUB CONDUIT INSIDE DISPATCH A124, SEE SHEET Ta2.01.
23	PROVIDE 1-1/2" CONDUIT FOR FUTURE CCTV FROM HANDHOLE TO SERVER ROOM A117.
24	PROVIDE 1" CONDUIT FOR FUTURE CCTV. STUB UP CONDUIT ADJACENT TO LIGHT POLE.
25	SEE Ta5.02 DETAIL 2 FOR THE INTERCOM / ACCESS CONTROL / GATE CONTROL LOW VOLTAGE SYSTEMS WIRING AND CONDUIT DETAIL.

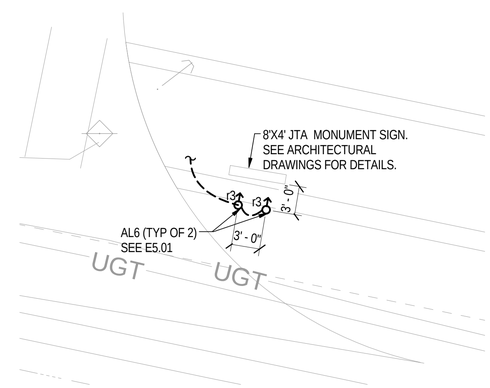


1 ELECTRICAL SITE PLAN

1" = 40'-0"

2 ENLARGED FLAG POLE LIGHTING PLAN

1/8" = 1'-0"



3 ENLARGED MONUMENT SIGN LIGHTING PLAN

1/8" = 1'-0"

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ELECTRICAL SITE PLAN

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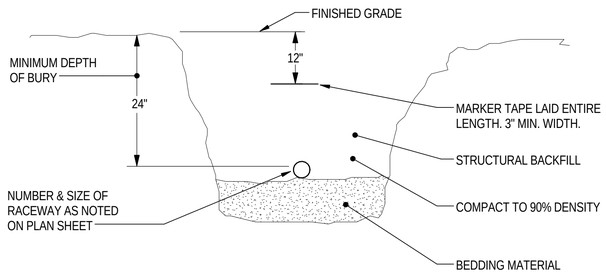
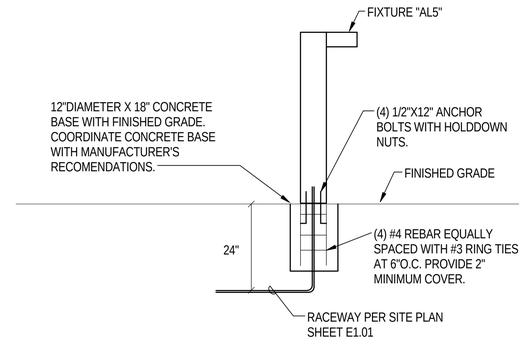
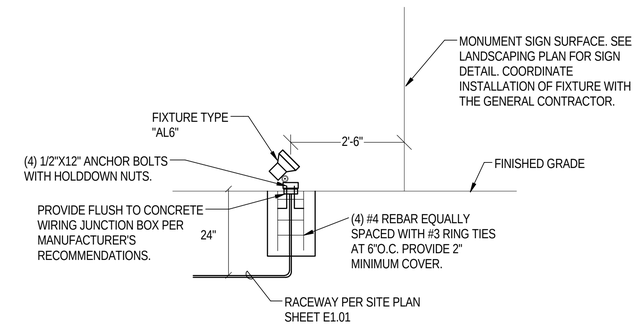


1 DIRECT BURIAL RACEWAY DETAIL
NOT TO SCALE



2 BOLLARD MOUNTING DETAIL - FIXTURE TYPE AL5
NOT TO SCALE



3 MONUMENT SIGN LIGHTING DETAIL - FIXTURE TYPE AL6
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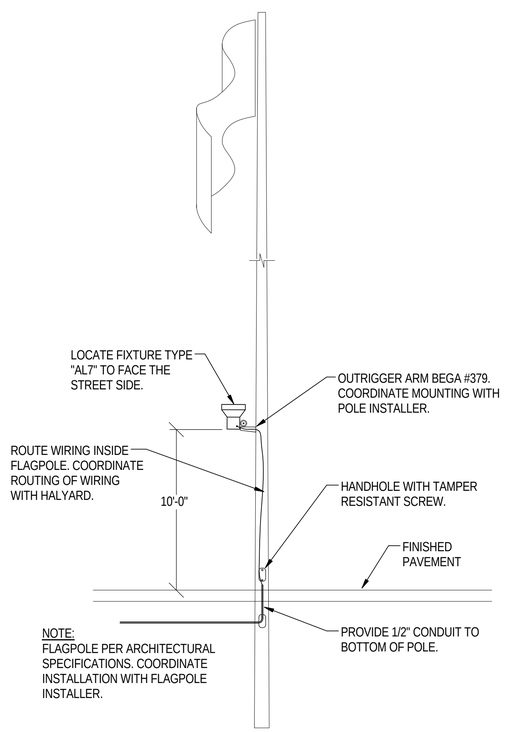

4 FLAG POLE LIGHT DETAIL - FIXTURE TYPE AL7
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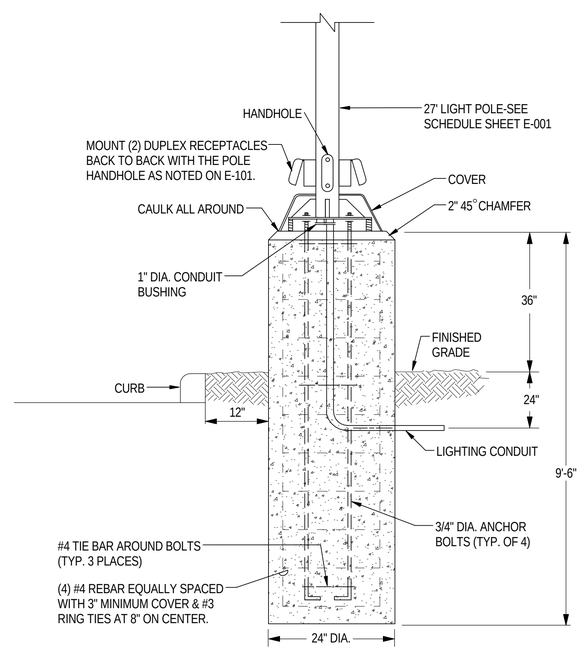
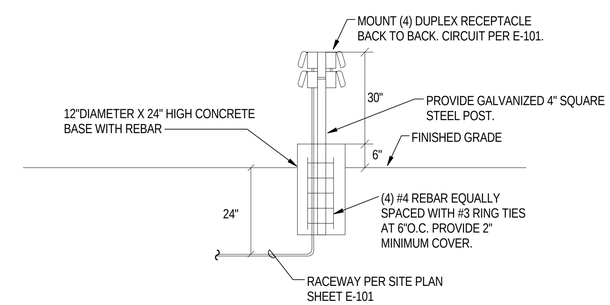


5 LIGHT POLE BASE DETAIL FIXTURE TYPES - AL1-AL4
NOT TO SCALE



6 BLOCK HEATER RECEPTACLE PEDESTAL DETAIL
NOT TO SCALE

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SITE PLAN ELECTRICAL DETAILS

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E5.01

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PORT TOWNSEND, WASHINGTON

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FEBRUARY 5, 2014

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Project Numbers
2013-006

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FLOOR PLAN LEGEND

FEB-X	FIRE EXTINGUISHER ON WALL BRACKET
FEC-X	FIRE EXTINGUISHER IN CABINET
DS	DOWNSPOUT
FD	FLOOR DRAIN
	TWO TIER LOCKER
	FULL HEIGHT LOCKER
	INCIDENTAL-USE ROOM WALL, PROVIDE WALL, CEILING AND DOOR CONSTRUCTION CAPABLE OF RESISTING THE PASSAGE OF SMOKE PER IBC 508.2.2.1.
	INTERIOR FRAMED WALL - FRAMED TO 6" ABOVE HIGHEST ADJACENT CEILING
	INTERIOR WALL - 3 1/2" CONCRETE CURB WITH FRAMED WALL ABOVE, SEE DETAIL 2 / A71.01
	ITEMS NOT IN CONTRACT (NIC), SHOWN FOR REFERENCE AND COORDINATION PURPOSES

FLOOR PLAN GENERAL NOTES

A. OTHER NOTES: SEE GENERAL NOTES ON G2 SERIES SHEETS FOR ADDITIONAL INFORMATION.

B. SYMBOLS AND ABBREVIATIONS: SEE G2 SERIES SHEETS.

C. TYPICAL MOUNTING HEIGHTS: SEE G2 SERIES SHEETS.

D. WALL TYPES: REFER TO A30 & A32 SERIES SHEETS FOR WALL TYPES AND GENERAL NOTES TO WALL TYPES, BUILDING & WALL SECTIONS.

E. DIMENSIONING: REFER TO SITE PLANS, ENLARGED FLOOR PLANS, REFLECTED CEILING PLANS, ELEVATIONS, SECTIONS, INTERIOR ELEVATIONS AND DETAILS FOR ADDITIONAL DIMENSIONAL INFORMATION NOT GIVEN ON FLOOR PLANS.

EXTERIOR WALLS: ALL DIMENSIONS TO EXTERIOR WALLS ARE TO FACE OF WALL GIRT OR FACE OF STUD, UNLESS NOTED OTHERWISE.

INTERIOR WALLS: ALL DIMENSIONS TO INTERIOR STEEL STUD WALLS ARE TO FACE OF STUD, CENTER OF OPENINGS, OR CENTERLINE OF COLUMNS/WALLS, UNLESS NOTED OTHERWISE.

ABBREVIATIONS:

FOS -	FACE OF STUD
C/L WALL -	CENTERLINE OF WALL STUD, NOT INCLUDING FINISHES
C/L COL -	CENTERLINE OF COLUMN
FOFL -	FACE OF FLANGE
FOF -	FACE OF FINISH
FO GIRT -	FACE OF WALL GIRT

DOORS: AT DOORS WITHOUT LOCATION DIMENSIONS, LOCATE HINGE JAMB 4-1/4" FROM ADJACENT FACE OF STUD. SMALLEST ALLOWABLE DIMENSION FROM JAMB (AT HINGE) TO PERPENDICULAR WALL IS 2 1/2", UNLESS NOTED OR DETAILED OTHERWISE.

METAL WALL PANEL DIMENSIONS AND LAYOUT: FACTORY FORMED METAL WALL PANEL DIMENSIONS AND LAYOUT ARE BASED ON PANEL SIZE INDICATED FOR METAL PANELS. ALUMINUM FRAMED GLAZING AND LOUVER OPENINGS ARE DIMENSIONED TO FIT WITHIN THIS PANEL LAYOUT. THE DESIGN INTENT IS THAT THE OPENING WIDTH WILL BE SIZED TO FIT THE PANEL LAYOUT SUCH THAT THE SEAMS ARE CONTINUOUS AT THE EDGE OF ALL OPENINGS. ACTUAL ROUGH OPENING DIMENSIONS MUST BE ADJUSTED TO ACCOMMODATE FINAL, ACTUAL PANEL DIMENSIONS, AS THEY MAY VARY FROM THE ASSUMED DIMENSIONS. CAREFULLY COORDINATE THE ROUGH OPENING SIZES AND LOCATIONS WITH THE ACTUAL METAL SIDING PANEL SIZES, THE OPENINGS IN MASONRY WALLS, AND THE DESIGN INTENT AS ILLUSTRATED AND DESCRIBED ON THE EXTERIOR ELEVATIONS.

F. WALL LAYOUT: WALLS ARE TYPICALLY 90 DEGREES FROM A HORIZONTAL PLANE, UNLESS NOTED OTHERWISE.

G. VERTICAL HEIGHTS ON ARCHITECTURAL DRAWINGS: TOP OF CONCRETE FLOOR SLAB (MAY ALSO BE NOTED AS TOP OF FINISH FLOOR) IS GENERALLY REFERENCED AS ELEVATION 0'-0" FOR THE MAIN FLOOR LEVEL. ALL OTHER VERTICAL DIMENSIONS REFERENCE POINTS ABOVE (+) OR BELOW (-) 0'-0". SEE CIVIL DRAWINGS FOR ACTUAL BUILDING TOP OF SLAB ELEVATION(S).

H. FLOOR SLOPES: AT ROOMS WITH FLOOR SHOWN SLOPED TO DRAIN, SLOPE SHALL BE UNIFORM FROM WALLS TO DRAIN AT ¼ INCH PER FOOT, UNLESS NOTED OTHERWISE, COORDINATE WITH PLUMBING DRAWINGS. AT ROOMS WITH IRREGULAR SHAPES (NON SQUARE), SLOPE SHALL BE ¼ INCH PER FOOT FROM DRAIN TO NEAREST WALL AND ALL OTHER SLOPES SHALL BE LESS THAN ¼ INCH PER FOOT. DO NOT REDUCE THICKNESS OF SLAB ON GRADE. AT FIRST FLOOR ROOMS WITH RECESSED SLABS, SLAB RECESS SHALL ALSO SLOPE AS DESCRIBED ABOVE, WITH ONLY MINOR ADJUSTMENTS MADE WITH THE TILE GROUT BASE, UNLESS DIMENSIONED OTHERWISE FLOOR DRAINS ARE LOCATED AT THE CENTER OF ROOMS.

I. WALL MOUNTED ITEMS & INTERIOR ELEVATIONS: SEE THE A8 SERIES SHEETS (INTERIOR ELEVATIONS) FOR WALL MOUNTED ITEMS. INTERIOR ELEVATIONS ARE REFERENCED IN EACH ROOM WITH A SYMBOL INDICATING THE WALL ELEVATED AND THE SHEET NUMBER OF THE ELEVATION (SEE SYMBOLS LEGEND ON G2 SERIES SHEETS).

J. HANDICAPPED ACCESSIBILITY: ALL HANDICAP ACCESSIBLE PLUMBING FIXTURES, EQUIPMENT AND FACILITIES SHALL MEET CURRENT STATE RULES AND REGULATIONS FOR BARRIER-FREE DESIGN.

K. FLOORING REDUCERS: REFER TO SPECIFICATIONS FOR FLOORING REDUCERS, UNLESS NOTED OTHERWISE. WHERE DIFFERING MATERIALS MEET, PROVIDE APPROPRIATE REDUCER AT ALL TRANSITIONS, AS APPROVED, WHETHER DETAILED OR NOT. SEE A20 AND A22 SERIES SHEETS FOR FLOOR & BASE DETAILS.

L. THRESHOLDS: AT EXTERIOR DOORS A DOUBLE LINE (IF SHOWN) INDICATES THE THRESHOLD, NOT EXTENT OF FLOOR FINISH. SEE DETAILS FOR EXTENT OF FLOOR FINISH. AT INTERIOR DOORS, SINGLE LINE (IF SHOWN) INDICATES GENERAL EXTENT OF FLOOR FINISH, SEE DETAILS AND COORDINATE EXACT EXTENT.

M. WALL BACKING AND BLOCKING: REFER TO A30 SERIES SHEETS AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON WALL BACKING & BLOCKING REQUIREMENTS.

N. FOR BUILDING FLOOR TYPES, REFER TO SHEET A21.00.

O. THE MAX SLOPE OF COLUMN BENTS SHOULD NOT EXCEED 1:12

P. ALL COUNTER TOPS AND WORKING SURFACES ARE SOLID SURFACE (QUARTZ), UNO

Q. FOR CASEWORK SECTION SEE DETAIL 1 / A80.00

NOTE: BUILDING TO COMPLY WITH WHOLE BUILDING PRESSURE TEST AS REQUIRED IN 2012 WSEC

NOTE: BUILDING GRIDS ARE LOCATED AT THE INSIDE FACE OF GIRT, UNO

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Sheet Title
BUILDING A FLOOR PLAN NOTES

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Checked By RC

Sheet Number
Aa2.00

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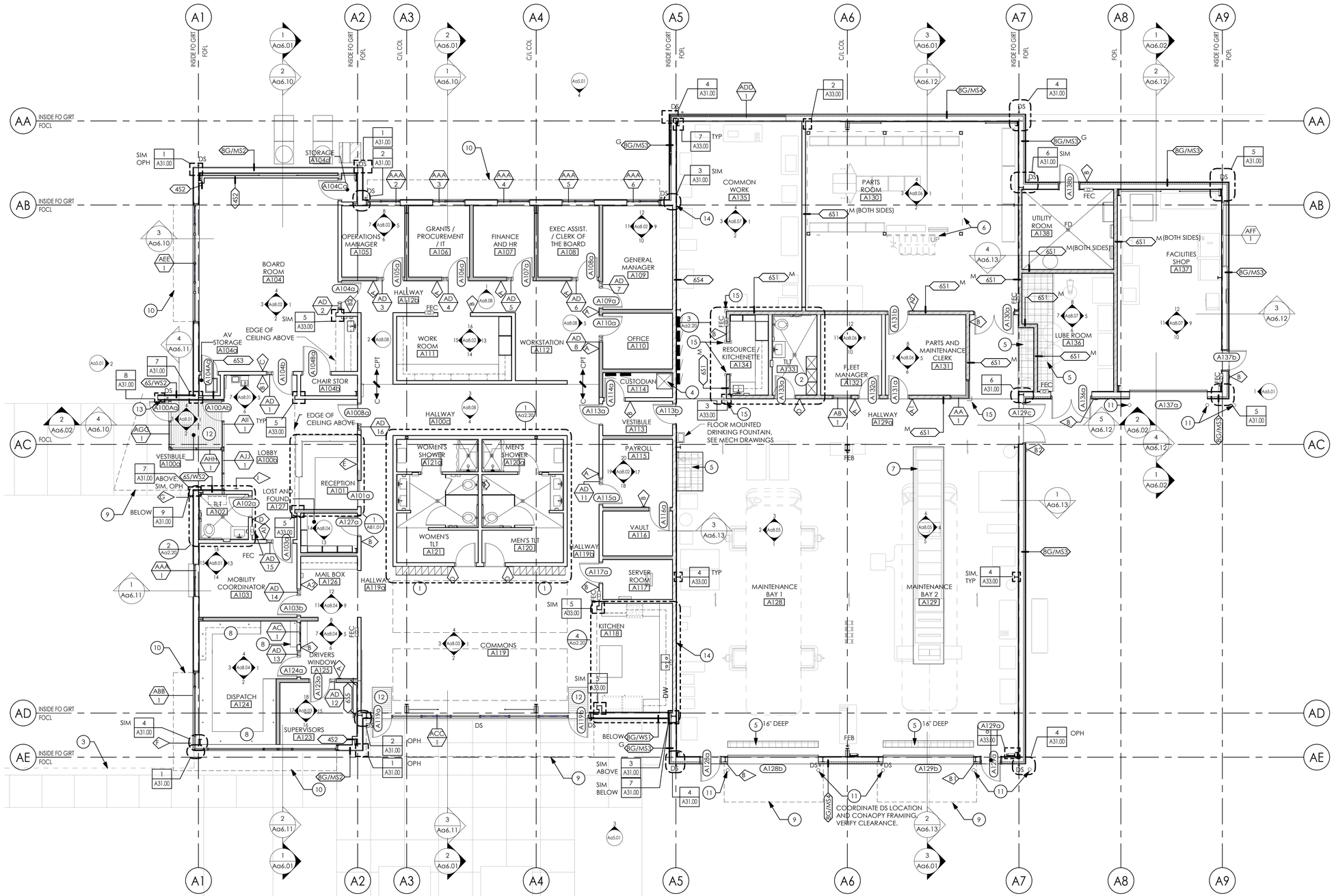

1 BUILDING A FLOOR PLAN

1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. SEE SHEET Aa2.01 FOR FLOOR PLAN LEGEND

FLOOR PLAN LEGEND

1. SEE SHEET Aa2.01 FOR FLOOR PLAN GENERAL NOTES

FLOOR PLAN SHEET NOTES

SEE A30 & A32 SERIES SHEETS FOR WALL TYPE DESCRIPTIONS & NOTES

ALL EXTERIOR WALL TYPES ARE 8G/MS UNO

ALL INTERIOR WALL TYPES ARE 6S1 UNO

FLOOR PLAN KEYNOTES

NOTE: NOT ALL NOTES MAY BE USED ON THIS SHEET

1. (32 TOTAL) LOCKERS WITH CONCRETE BASE, SEE DETAIL 9 / A22.01
2. CAGE LOCKER (3) WITH CONCRETE BASE, SEE DETAIL 9 / A22.01
3. FENCE TO ALIGN WITH WINDOW FRAME, SEE DETAIL 2 / A10.00
4. MOP SINK
5. SUMP WITH STEEL GRATING (8" DEEP UNO ON FLOOR PLAN), SEE DETAIL 5 / A20.00 , SSD AND SEE MECHANICAL DRAWINGS
6. PRE-FABRICATED STORAGE MEZZANINE ASSEMBLYABOVE, OFCI AND ASSEMBLE, COORDINATE WITH OWNER. SEE SHEET G5 SERIES FOR AS BUILT DOCUMENTS AND STRUCTURAL DRAWINGS
7. PIT FOR FUTURE VEHICLE LIFT EQUIPMENT(LIFT NIC). VERIFY DIMENSION WITH MANUFACTURER, SEE EQUIPMENT, MECHANICAL, ELECTRICAL AND SSD. OFCI PROVIDE WATERPROOFING ON ALL SIDES OF PIT.
8. BUILT IN COUNTER, SOLID SURFACE. GROMMETS EVERY 3'-0"
9. CANOPY ABOVE
10. SUNSCREEN ABOVE, SEE DETAIL 1 / A36.02
11. BOLLARD, SEE DETAIL 5 / A10.00
12. RECESSED ENTRY WALK-OFF MAT, SEE DETAIL 3 / A22.01 AND FLOOR TYPE 'B'
13. KNOX BOX
14. WALL OFFSET BY 1/4" FROM GRID, SEE 3 / Aa6.13
15. SS CORNER GUARD TO 7'-2"
16. REFRIGERATOR (NIC)
17. STOVE/RANGE (NIC) RANGE HOOD ABOVE, SEE MECHANICAL

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NOTE: DRAWING MAY BE REDUCED
0 4' 8' 16'

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BUILDING A FLOOR PLAN

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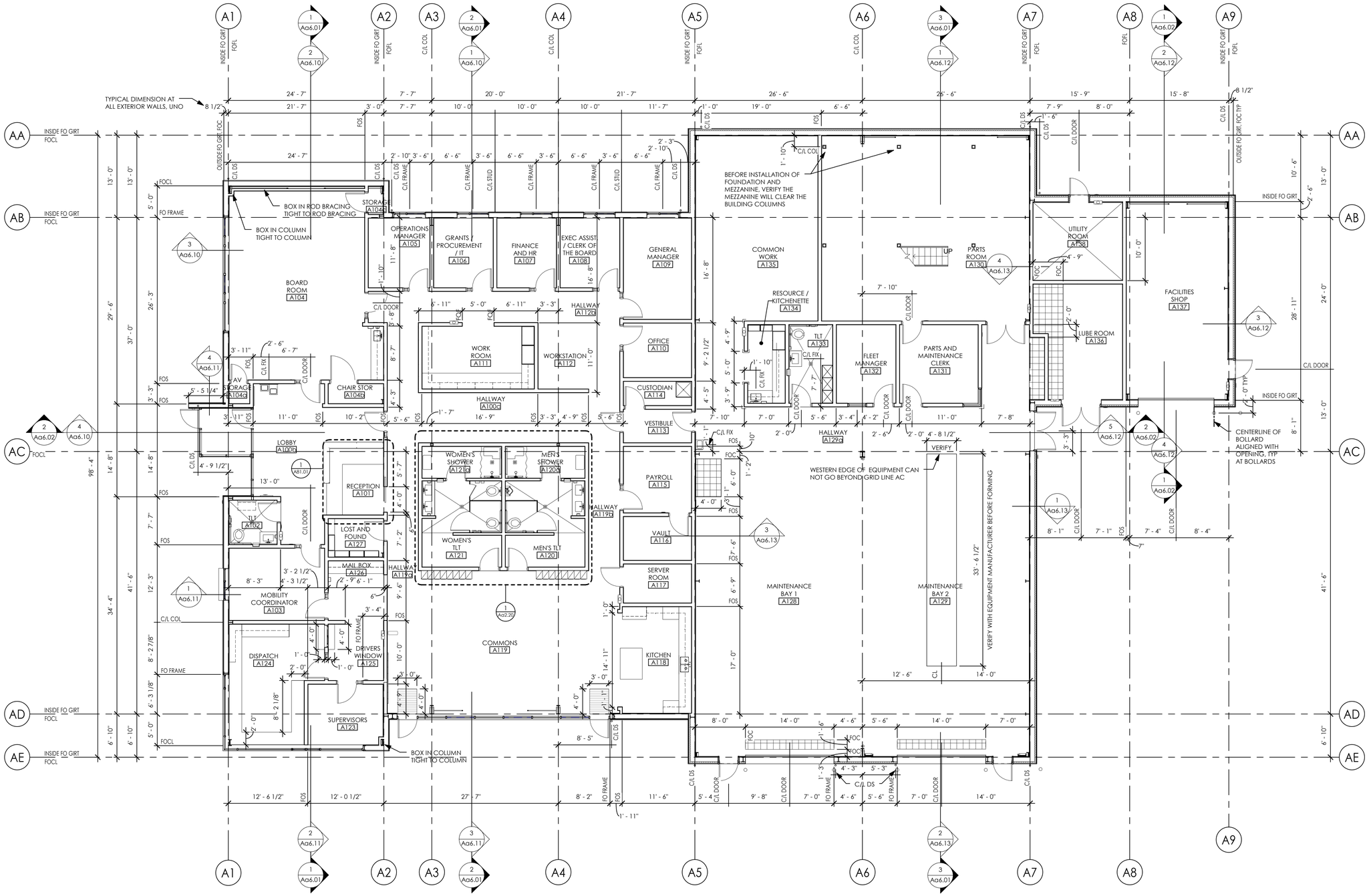

1 BUILDING A DIMENSION FLOOR PLAN
1/8" = 1'-0"

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BUILDING A DIMENSION PLAN

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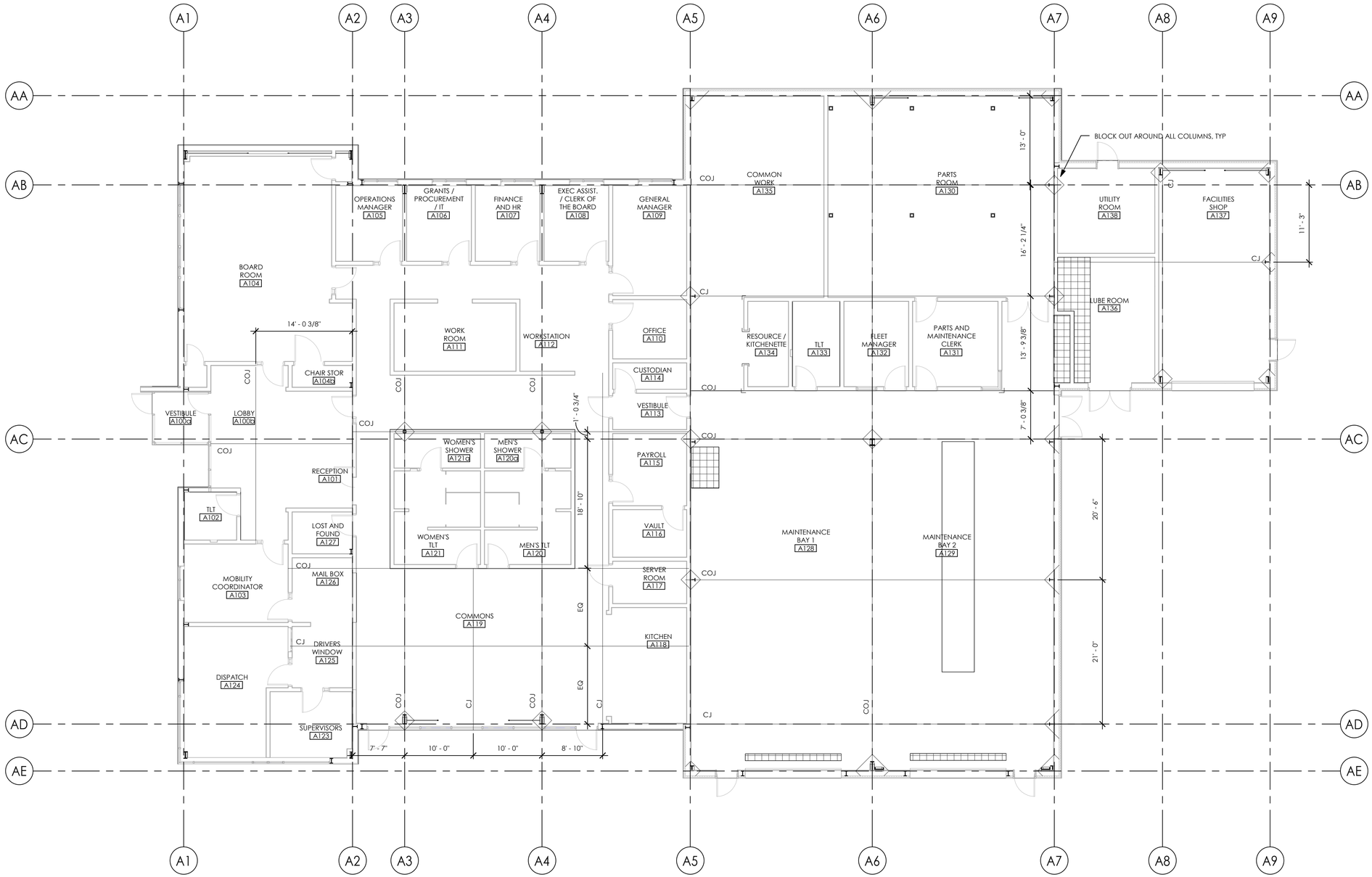
NOTE: JOINTS SHOWN REPRESENT JOINTS EXPOSED TO VIEW ONLY. CONTINUE OTHER JOINTING TO FOLLOW STRUCTURAL JOINTING REQUIREMENTS, SEE STRUCTURAL DRAWINGS



1 BUILDING A JOINT PATTERN PLAN

1/8" = 1'-0"

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BUILDING A JOINT PATTERN PLAN

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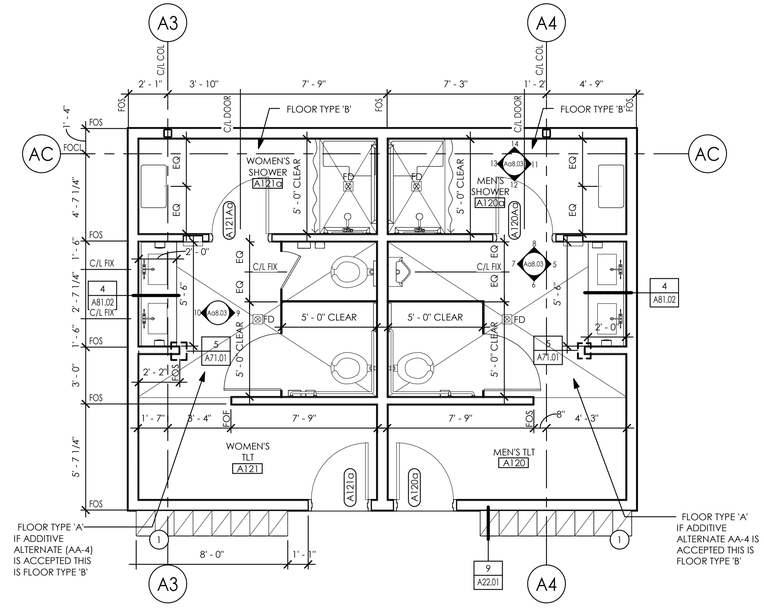
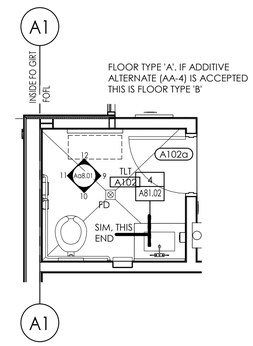


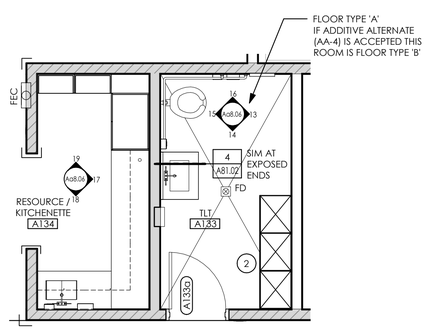
1 A120-A121 ENLARGED FLOOR PLAN

1/4" = 1'-0"



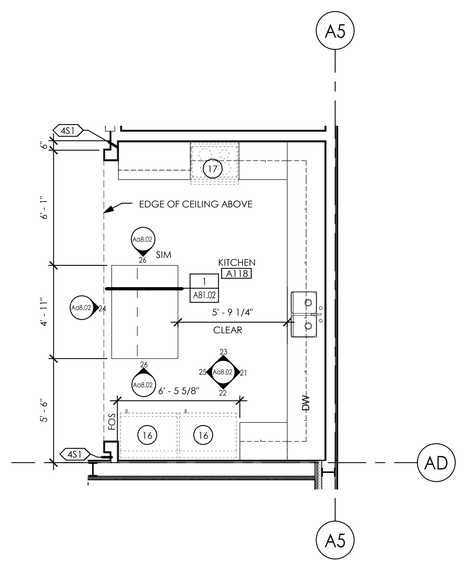
2 A102 ENLARGED FLOOR PLAN

1/4" = 1'-0"



3 A133-A134 ENLARGED FLOOR PLAN

1/4" = 1'-0"



4 A118 ENLARGED FLOOR PLAN

1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. SEE SHEET Aa2.01 FOR FLOOR PLAN LEGEND

FLOOR PLAN LEGEND

1. SEE SHEET Aa2.01 FOR FLOOR PLAN GENERAL NOTES

FLOOR PLAN SHEET NOTES

SEE A30 & A32 SERIES SHEETS FOR WALL TYPE DESCRIPTIONS & NOTES

ALL EXTERIOR WALL TYPES ARE 8G/MS UNO

ALL INTERIOR WALL TYPES ARE 6S1 UNO

FLOOR PLAN KEYNOTES

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4. MOP SINK
5. SUMP WITH STEEL GRATING (8" DEEP UNO ON FLOOR PLAN), SEE DETAIL 5 / A20.00 , SSD AND SEE MECHANICAL DRAWINGS
6. PRE-FABRICATED STORAGE MEZZANINE ASSEMBLYABOVE, OFCI AND ASSEMBLE, COORDINATE WITH OWNER. SEE SHEET G5 SERIES FOR AS BUILT DOCUMENTS AND STRUCTURAL DRAWINGS
7. PIT FOR FUTURE VEHICLE LIFT EQUIPMENT(LIFT NIC), VERIFY DIMENSION WITH MANUFACTURER, SEE EQUIPMENT, MECHANICAL, ELECTRICAL AND SSD. OFCI PROVIDE WATERPROOFING ON ALL SIDES OF PIT.
8. BUILT IN COUNTER, SOLID SURFACE. GROMMETS EVERY 3'-0"
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11. BOLLARD, SEE DETAIL 5 / A10.00
12. RECESSED ENTRY WALK-OFF MAT, SEE DETAIL 3 / A22.01 AND FLOOR TYPE 'B'
13. KNOX BOX
14. WALL OFFSET BY 1/4" FROM GRID, SEE 3 / Aa6.13
15. SS CORNER GUARD TO 7'-2"
16. REFRIGERATOR (NIC)
17. STOVE/RANGE (NIC) RANGE HOOD ABOVE, SEE MECHANICAL

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Sheet Title
BUILDING A ENLARGED FLOOR PLANS

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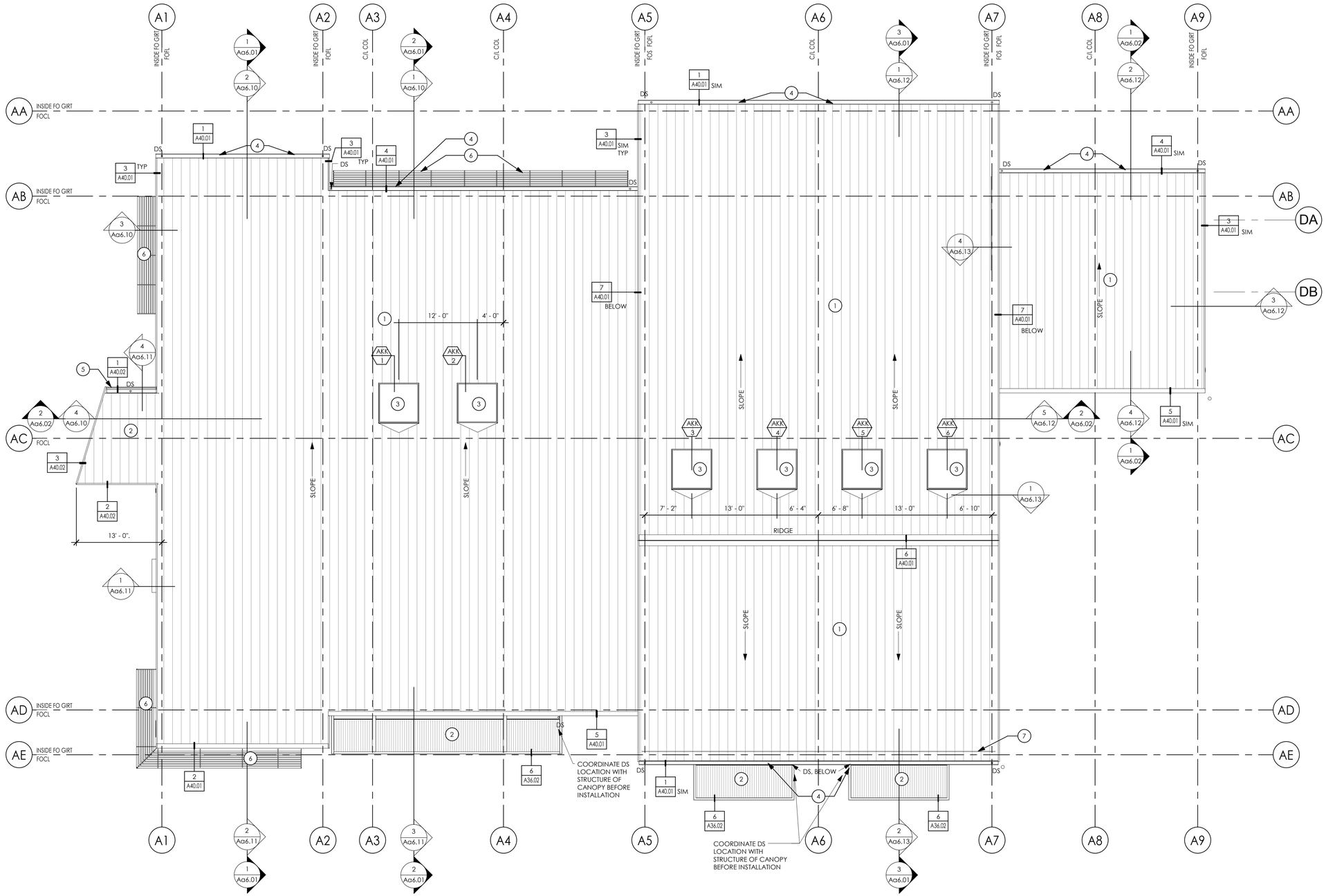

ROOF PLAN KEYNOTES

1. STANDING STEAM MTL ROOF, BY PRE-ENGINEERED BUILDING MANUFACTURER
2. CANOPY
3. SKYLIGHT, ADDITIVE ALTERNATE (AA-3)
4. GUTTER
5. BUILT-IN GUTTER, SEE DETAIL 1 / A40.02
6. SUN SCREEN
7. SNOWGUARD

ROOF PLAN GENERAL NOTES

A. OTHER NOTES: SEE GENERAL NOTES ON G2 SERIES SHEETS FOR ADDITIONAL INFORMATION.

B. ROOF PENETRATIONS: ALL ROOF PENETRATIONS SHALL BE LOCATED AWAY FROM ROOF VALLEYS. ALL ROOF PENETRATIONS SHALL BE PROPERLY FLASHED TO DIRECT PRECIPITATION TO GUTTERS AND SCUPPERS IN CONFORMANCE WITH DETAILS AND CURRENT "SMACNA" PUBLISHED STANDARDS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ITEMS NOT DETAILED.

C. POSITIVE ROOF SLOPE: ALL ROOF CONSTRUCTION SHALL PROVIDE POSITIVE SLOPE TO DRAIN IN CONFORMANCE WITH N.R.C.A. PUBLISHED RECOMMENDATIONS. STANDING WATER OR PONDING SHALL NOT BE ACCEPTABLE. NOTE: ALL ROOF SLOPES ON ROOF PLAN ARE SURFACE SLOPE IN DIRECTION OF ARROW, TYP. ALL CRICKETS SLOPE AT 1:12 (SURFACE SLOPE), UNO.

D. SECTION REFERENCES: SEE FLOOR PLANS FOR ADDITIONAL BUILDING AND WALL SECTION REFERENCES.

E. ROOF TYPES AND DETAILS: SEE A40 & A41 SERIES SHEETS.

F. DOWNSPOUTS: SEE FLOOR PLANS AND EXTERIOR ELEVATIONS FOR EXACT DOWN SPOUT, DOWNSPOUT BRACKET AND CONDUCTOR HEAD LOCATIONS. FIELD VERIFY EXACT HEIGHT OF ALL THROUGH WALL SCUPPERS. CAREFULLY COORDINATE WITH CIVIL DRAWINGS AND SUBCONTRACTOR TO ASSURE EXACT ALIGNMENT WITH STORM SEWER LINE CONNECTION AT GRADE.

1. WHERE UPPER DOWNSPOUTS TERMINATE OVER LOWER ROOF PANELS, PROVIDE 45 DEGREE TRANSITION AT END OF DOWNSPOUT WHICH DIRECTS RAINWATER AWAY FROM WALL. PROVIDE SPLASH PANS WHERE INDICATED.

2. ALL DOWNSPOUTS SIZES GIVEN ARE ID DIMENSIONS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR RESPECTIVE ROOF-MOUNTED EQUIPMENT AND ROOF PENETRATIONS.

3. PROVIDE TEMPORARY DRAINAGE FROM GUTTERS, SCUPPERS AND ROOF DRAINS AWAY FROM BUILDING UNTIL SUCH TIME AS FINAL DOWNSPOUT INSTALLATION AND CONNECTION TO STORM DRAINAGE SYSTEM. ALSO SEE NOTES ON A1 SERIES SHEETS.

G. PENETRATIONS: NOT ALL REQUIRED ROOF PENETRATIONS ARE ILLUSTRATED ON ARCHITECTURAL ROOF PLANS. PROVIDE CURBS, FLASHING, CRICKETS, COLLARS, ETC. PER ARCHITECTURAL DETAILS FOR ALL PENETRATIONS AND EQUIPMENT WHETHER SHOWN OR NOT. ALSO SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.

H. M/E/P EQUIPMENT: REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ROOF-MOUNTED EQUIPMENT AND ROOF PENETRATIONS.

I. SEE EXTERIOR ELEVATION FOR ROOF PANEL LAYOUT STARTING POINT.

ROOF PLAN LEGEND

STANDING SEAM METAL ROOF

°DS DOWNSPOUT, SEE A36 SERIES SHEETS

°VP VENT PIPE

1 BUILDING A ROOF PLAN

1/8" = 1'-0"

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BID SET

Project Title
JEFFERSON TRANSIT AUTHORITY

63 FOUR CORNERS RD
PORT TOWNSEND, WASHINGTON 98368

Project Numbers
2013-006

FTA PROJECT NUMBER: WA-0180-02

Issue & Revision Dates

08 07 13	100% SD
11 04 13	100% DD
12 30 13	AGENCY SET
02 05 13	BID SET

NOTE: DRAWING MAY BE REDUCED
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Sheet Title
BUILDING A ROOF PLAN

Drawn By MR
Checked By MH

Sheet Number
Aa3.01

Sheet Number 54 Of 203

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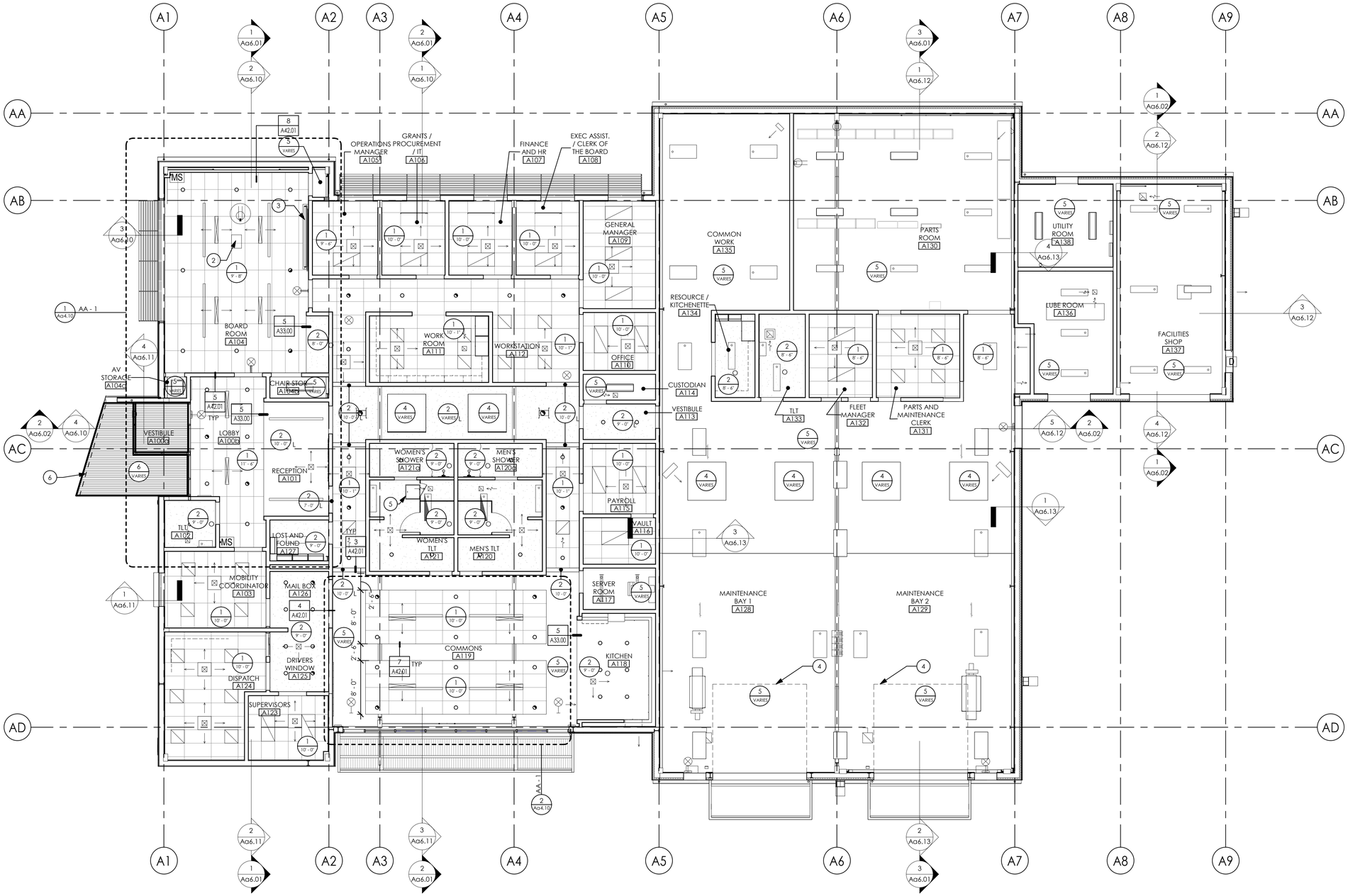

1 BUILDING A REFLECTED CEILING PLAN
1/8" = 1'-0"

RCP GENERAL NOTES

A. PROVIDE SEISMIC BRACING AT ALL SUSPENDED CEILINGS PER CURRENT BUILDING CODE.

B. GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF THE APPLICABLE TRADES TO PROVIDE PROPER LOCATIONS AND INSTALLATION OF CEILING ELEMENTS AND SYSTEMS AS APPROVED BY THE ARCHITECT.

C. MECHANICAL AND ELECTRICAL INFORMATION SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS IS FOR USE IN LOCATING CEILING MOUNTED FIXTURES, DIFFUSERS, GRILLES, ETC. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR QUANTITIES OF DEVICES AND ALL OTHER RELATED INFORMATION.

D. SOME SPECIFIC ACCESS PANEL LOCATIONS FOR ACCESS TO MECHANICAL/ ELECTRICAL EQUIPMENT ARE SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS. OTHER MISCELLANEOUS ACCESS PANELS SPECIFIED OR OTHERWISE REQUIRED (I.E. PLUMBING, HVAC, AUTOMATIC FIRE EXTINGUISHING SYSTEMS, ETC.) SHALL BE PROVIDED IN CONTRACT. LOCATIONS SHALL BE NOTED ON SHOP DRAWINGS FOR ARCHITECTS APPROVAL.

E. ALL NON-BEARING INTERIOR METAL STUD PARTITIONS WHICH EXTEND TO STRUCTURAL FLOOR OR ROOF DECK ABOVE SHALL TERMINATE TO ALLOW FOR DEFLECTION. ALSO SEE STRUCTURAL.

F. STRUCTURAL ELEMENTS ARE SHOWN FOR CONTRACTORS CONVENIENCE. SEE STRUCTURAL DRAWINGS FOR ACTUAL SIZES AND SPACING OF SUCH ELEMENTS.

G. ALL CEILING HEIGHTS ARE FROM THE TOP OF SLAB DIRECTLY BELOW, UNLESS NOTED OTHERWISE.

H. CEILING HEIGHTS ARE NOMINAL HEIGHTS. SEE WALL SECTIONS FOR ACTUAL CONSTRUCTION REQUIREMENTS.

I. IF LIGHT FIXTURE IS NOT DIMENSIONALLY LOCATED, CENTER IN ROOM. COORDINATE WITH ARCHITECT.

J. CEILING SUSPENSION WIRES MUST BE FASTENED TO STRUCTURE. SEE SPECIFICATIONS.

K. SEE 1 / A42.01 AND OTHER A42 SERIES DRAWINGS FOR TYPICAL SUSPENDED CEILING DETAILS AND REQUIREMENTS.

L. PAINT ALL EXPOSED FIRE SPRINKLER PIPING TO MATCH CEILING, COORDINATE WITH ARCHITECT. PROTECT ALL HEADS FROM PAINT. SEE FIRE SPRINKLE DRAWINGS.

CEILING TYPES

(1) 2x4 SUSPENDED ACCOUSTICAL PANEL CEILING GRID (NON-RATED)

(2) (1) LAYER 5/8" GWB APPLIED TO METAL CEILING FRAMING. WHERE STRUCTURAL DRAWINGS DO NOT ADDRESS FRAMING SIZE, USE 6" x 20 GAUGE STEEL STUD FRAMING @ 16" OC (NON-RATED)

(3) SUSPENDED LINEAR WOOD SLAT CEILING. 1" BLACK ACOUSTIC BACKER BOARD. SEE DETAIL 6 / A42.02 FOR PARALLEL JOINTS. ADDITIVE ALTERNATE (AA-2)

(4) SKYLIGHT - ADDITIVE ALTERNATE (AA-3)

(5) EXPOSED STRUCTURE WITH HPC (NON-RATED), POLYETHYLENE SUPPORT FABRIC & STRAPPING, LINER SYSTEM, SEE ROOF TYPES

(6) SLOPE TONGUE AND GROOVE WOOD SYSTEM TO MATCH EXTERIOR WOOD WALL SYSTEM, STAIN & WOOD SPECIES TO MATCH EXTERIOR WOOD SIDING. SEE WALL TYPE FOR CEILING CONSTRUCTION. SLOPED STEEL STUD CEILING FRAMING AT 16" OC, SSD.

CEILING TYPE MODIFIERS

L (LATEX PAINT)
O (LATEX ENAMEL PAINT)

CEILING PLAN KEYNOTES

(1) REMOVABLE ACCESS PANEL, COORDINATE WITH MECHANICAL FOR FINAL LOCATIONS, SEE DETAIL 4 / A42.02. ADDITIVE ALTERNATE (AA-2)

(2) PROJECTOR LOCATION, OFOI

(3) ELECTRIC PROJECTION SCREEN, ABOVE CEILING WALL MOUNTED, OFOI, SEE DETAIL 7 / A42.02

(4) OVERHEAD HIGH LIFT DOORS

(5) CEILING ACCESS PANEL

(6) VENTING STRIP, SEE DETAIL 3 / A40.02

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Sheet Title
BUILDING A REFLECTED CEILING PLAN

Drawn By MR
Checked By MH

Sheet Number
Aa4.01

Sheet Number 55 Of 203

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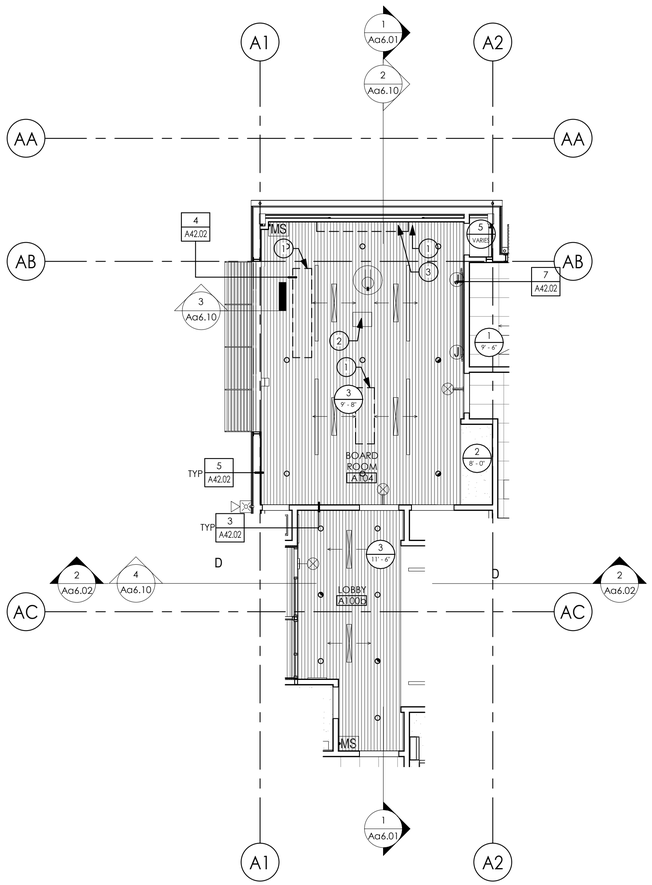
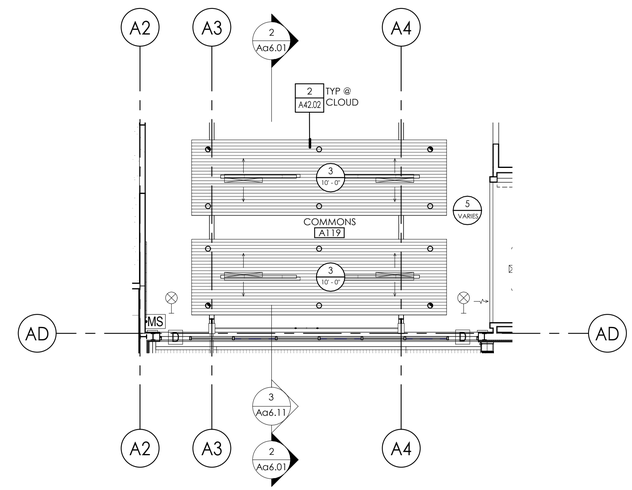


1 BUILDING A RCP - ADDITIVE ALTERNATE (AA-2)

1/8" = 1'-0"



2 BUILDING A RCP - ADDITIVE ALTERNATE (AA-2)

1/8" = 1'-0"

REFLECTED CEILING PLAN NOTES

1. SEE SHEET Aa4.01 FOR REFLECTED CEILINNG PLAN GENERAL NOTES & KEYNOTES

CEILING TYPES & MODIFIERS

1. SEE SHEET Aa4.01 FOR CEILING TYPES & MODIFIERS

CEILING PLAN KEYNOTES

1. REMOVABLE ACCESS PANEL, COORDINATE WITH MECHANICAL FOR FINAL LOCATIONS, SEE DETAIL 4 / A42.02. ADDITIVE ALTERNATE (AA-2)
2. PROJECTOR LOCATION, OFOI
3. ELECTRIC PROJECTION SCREEN, ABOVE CEILING WALL MOUNTED, OFOI, SEE DETAIL 7 / A42.02
4. OVERHEAD HIGH LIFT DOORS
5. CEILING ACCESS PANEL
6. VENTING STRIP, SEE DETAIL 3 / A40.02

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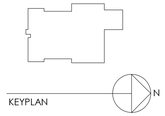

KEYPLAN

NOTE: DRAWING MAY BE REDUCED

0 4' 8' 16'

Sheet Title

BUILDING A REFLECTED CEILING PLAN - ADDITIVE ALTERNATE (AA-2)

Drawn By: MR

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Sheet Number

Aa4.10

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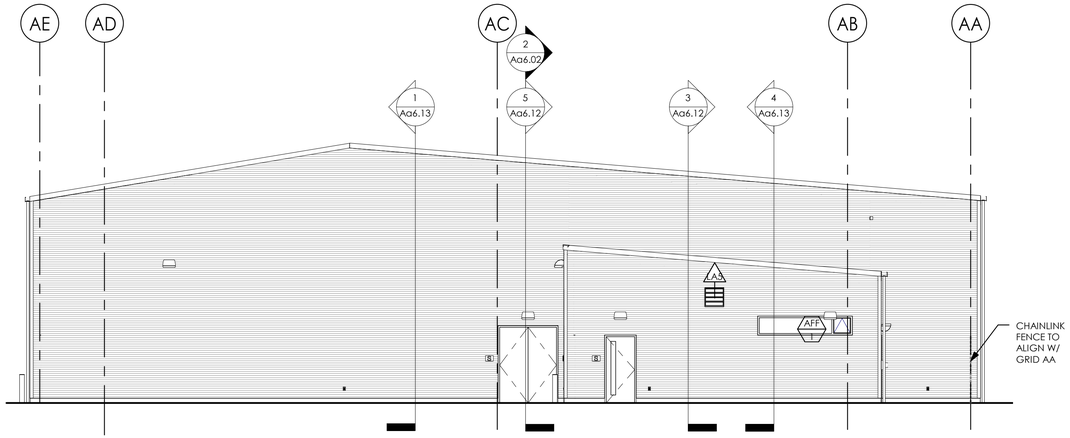
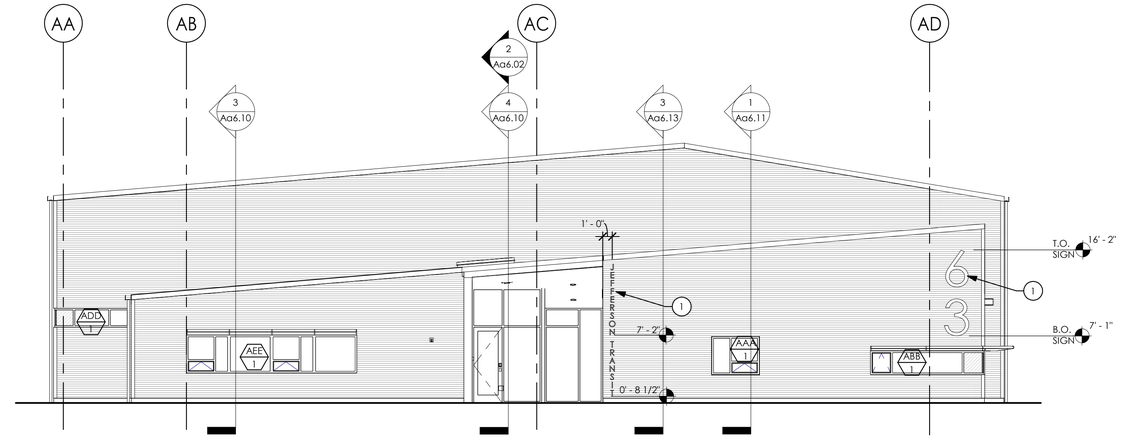


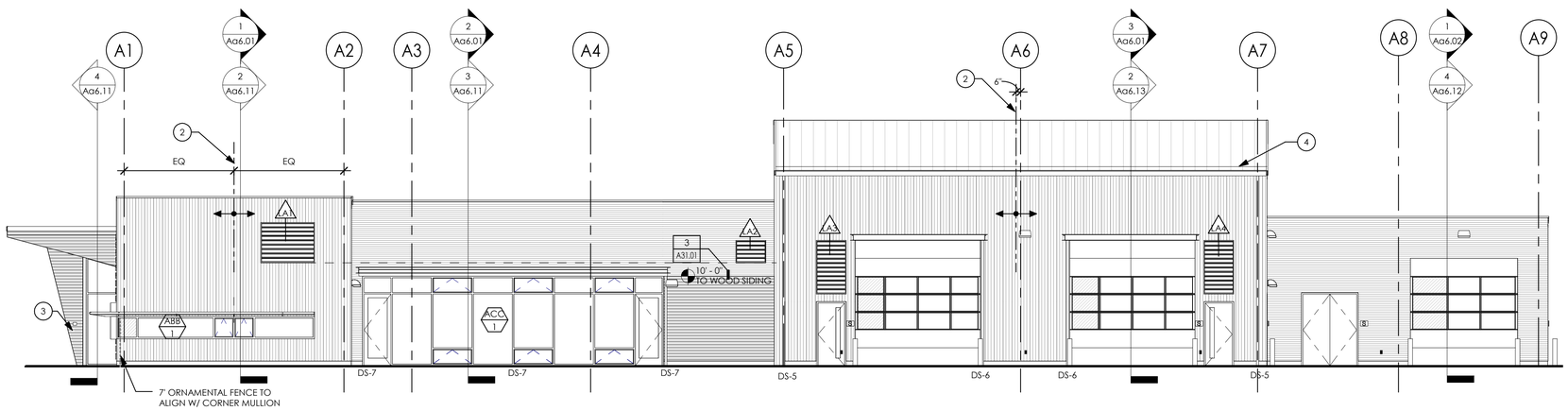
1 BUILDING A NORTH EXTERIOR ELEVATION

1/8" = 1'-0"



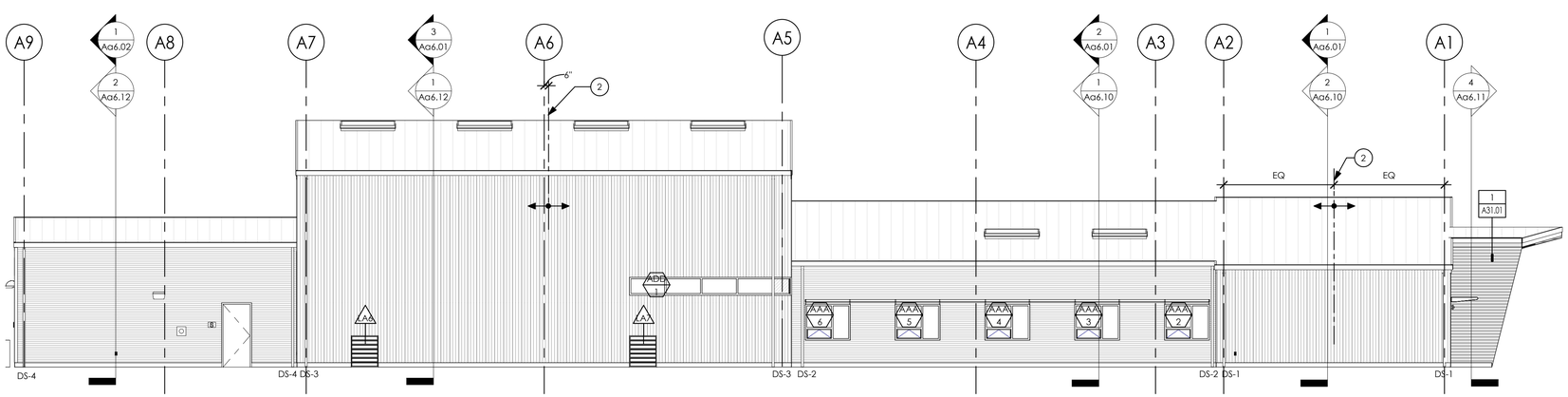
2 BUILDING A SOUTH EXTERIOR ELEVATION

1/8" = 1'-0"



3 BUILDING A EAST EXTERIOR ELEVATION

1/8" = 1'-0"



4 BUILDING A WEST EXTERIOR ELEVATION

1/8" = 1'-0"

EXTERIOR ELEVATIONS GENERAL NOTES

A. OTHER NOTES: SEE GENERAL NOTES ON G2 SERIES SHEETS FOR ADDITIONAL INFORMATION.

B. METAL WALL PANEL DETAILS: SEE A31 SERIES SHEETS, INCLUDING, BUT NOT LIMITED TO PANEL JOINTS, INSIDE & OUTSIDE CORNERS, HEAD & SILL TRANSITIONS.

C. TYPICAL DOWNSPOUT DETAILS: SEE A36 SERIES SHEETS. DOWNSPOUTS ARE 3" DIAMETER, UNO

D. M/E/P DEVICES: ARCHITECTURAL DRAWINGS DO NOT ILLUSTRATE ALL MECHANICAL AND ELECTRICAL ITEMS AND DEVICES. ITEMS AND DEVICES WHICH ARE SHOWN ARE FOR COORDINATION AND LOCATING PURPOSES. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS FOR CLARIFICATION.

EXTERIOR ELEVATION LEGEND

HORIZONTAL METAL PANEL SIDING, A

WOOD SIDING, SEE DETAIL 1 / A31.01

VERTICAL METAL PANEL SIDING, B

DS — DOWNSPOUT

DS-1	MOUNT C/L OF DS BRACKET AT +2'-0" & +8'-10"
DS-2	MOUNT C/L OF DS BRACKET AT +2'-0" & +9'-3"
DS-3	MOUNT C/L OF DS BRACKET AT +2'-0", 10'-3" & 19'-4"
DS-4	MOUNT C/L OF DS BRACKET AT +2'-0" & 11'-4"
DS-5	MOUNT C/L OF DS BRACKET AT +2'-0", 8'-8" & 19'-3"
DS-6	MOUNT C/L OF DS BRACKET AT +2'-0" & 12'-2"
DS-7	MOUNT C/L OF DS BRACKET AT +2'-0" & 8'-0"

EXTERIOR ELEVATION KEYNOTES

1. BUILDING SIGNAGE, SEE SIGNAGE SCHEDULE
2. VERTICAL METAL WALL PANEL LAYOUT START POINT
3. FIRE DEPARTMENT KEY BOX
4. SNOW GUARD

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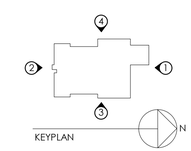

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Sheet Title
BUILDING A EXTERIOR ELEVATIONS

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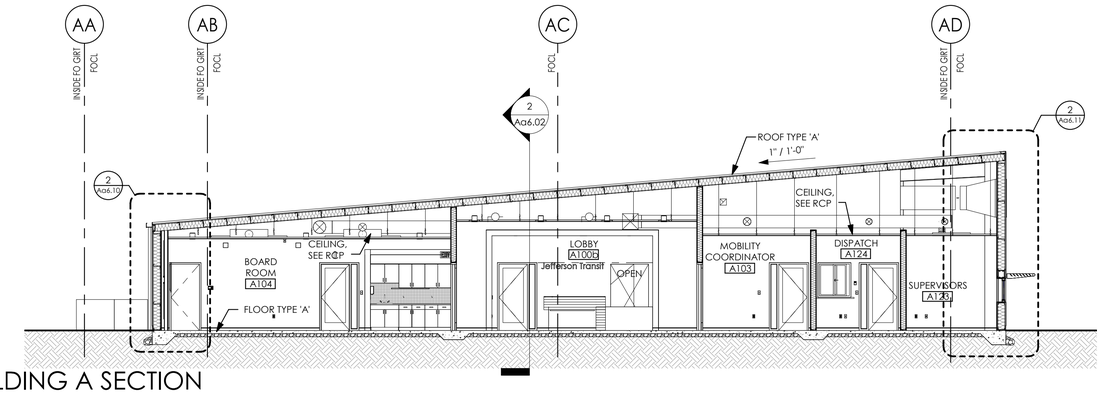
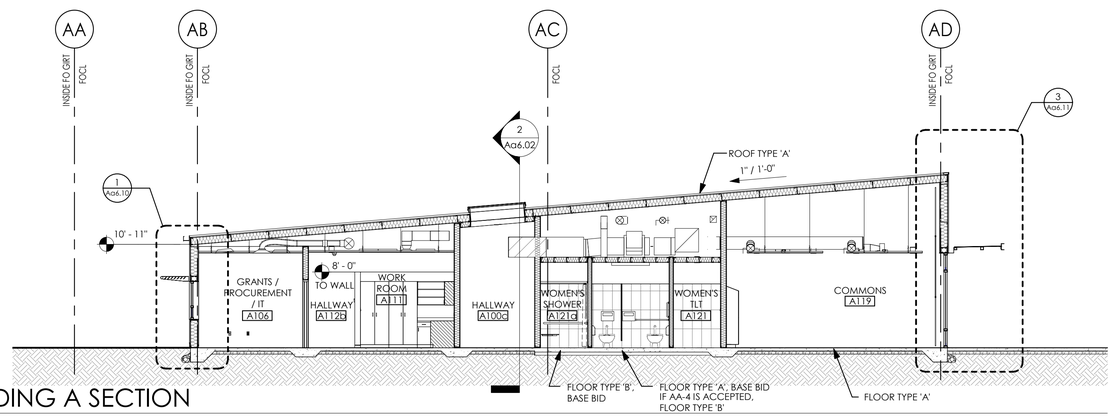


1 BUILDING A SECTION
1/8" = 1'-0"



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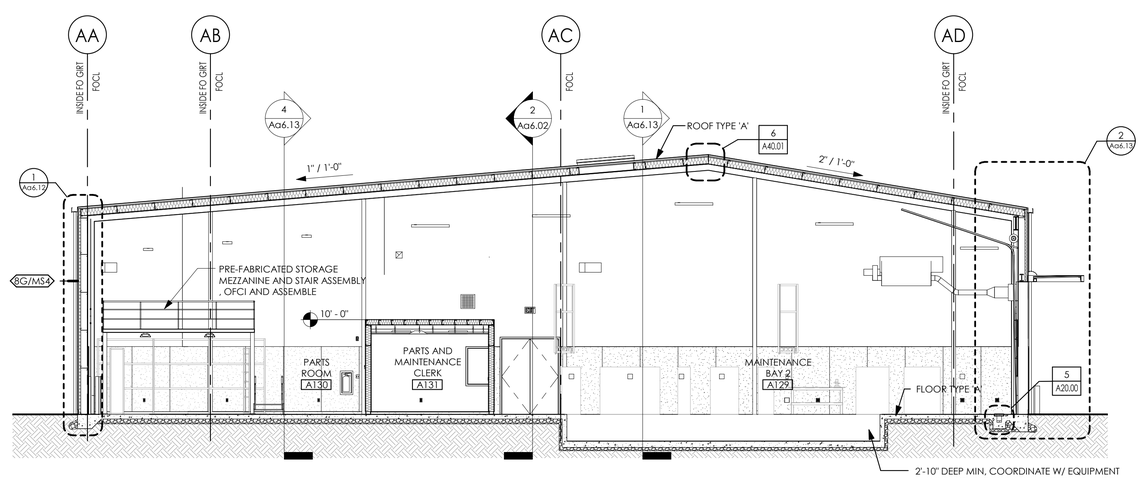

3 BUILDING A SECTION
1/8" = 1'-0"

SECTIONS GENERAL NOTES

1. SEE A30 SERIES SHEETS FOR BUILDING AND WALL SECTION AND WALL TYPE GENERAL NOTES

SECTIONS SHEET NOTES

SEE A30 & A32 SERIES SHEETS FOR WALL TYPE DESCRIPTIONS & NOTES

ALL EXTERIOR WALL TYPES ARE 6S/MS1 UNO
ALL INTERIOR WALL TYPES ARE 6S1 UNO

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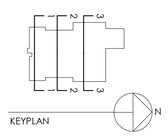

KEYPLAN

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Sheet Title
BUILDING A SECTIONS

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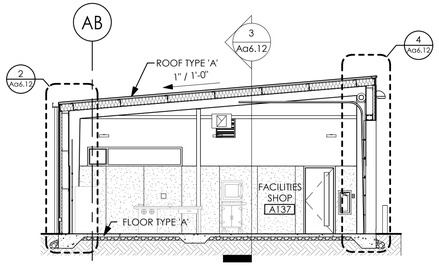

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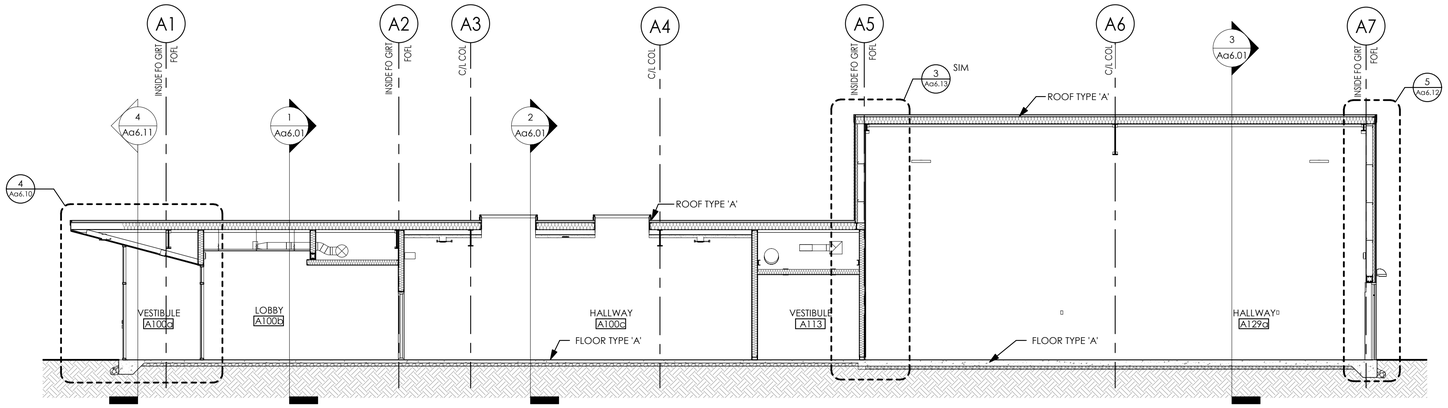

2 BUILDING A SECTION
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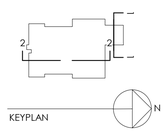

KEYPLAN

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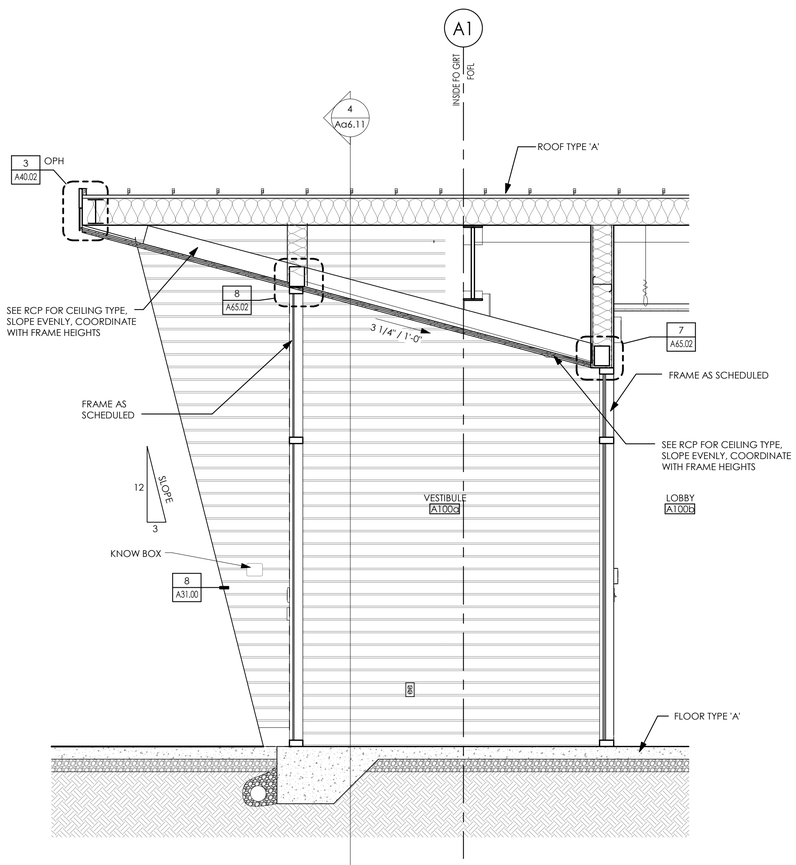
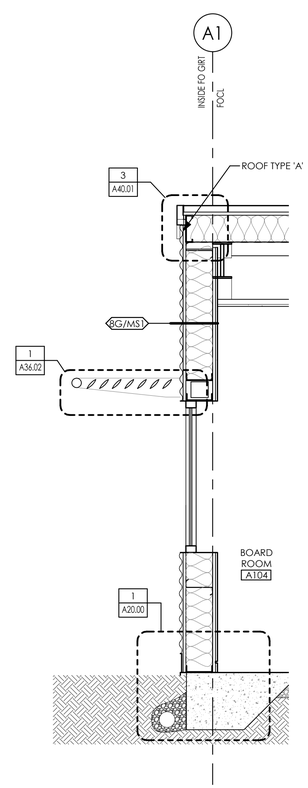


4 WALL SECTION
1/2" = 1'-0"



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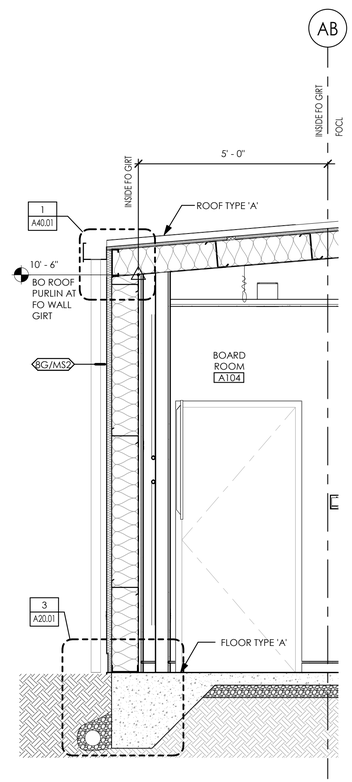

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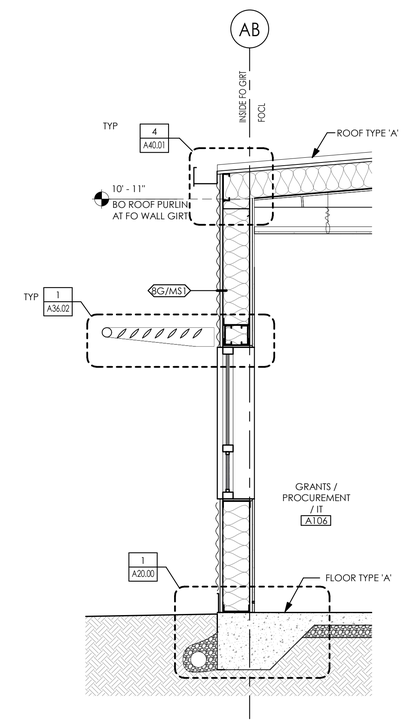

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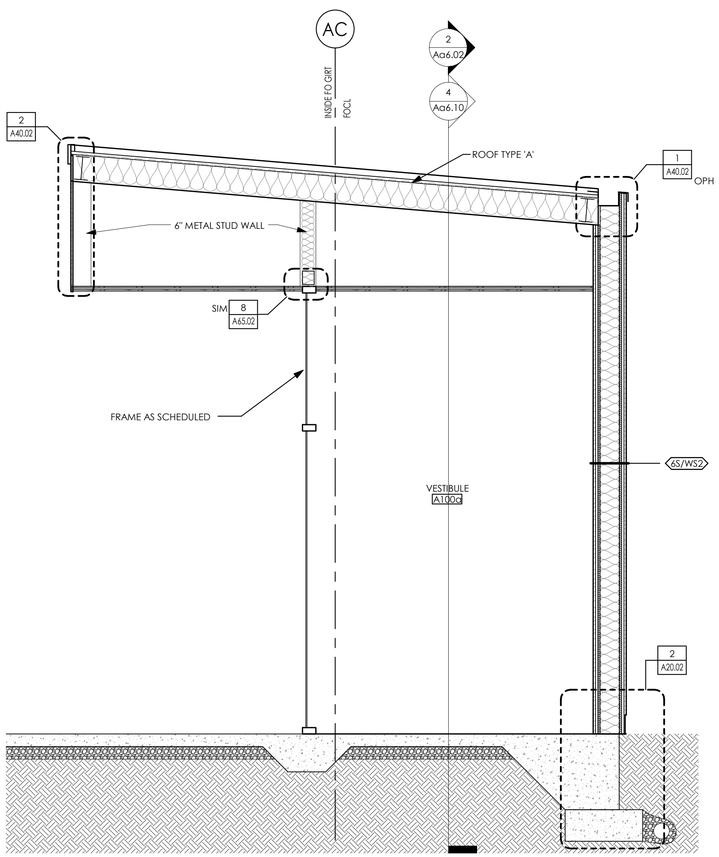
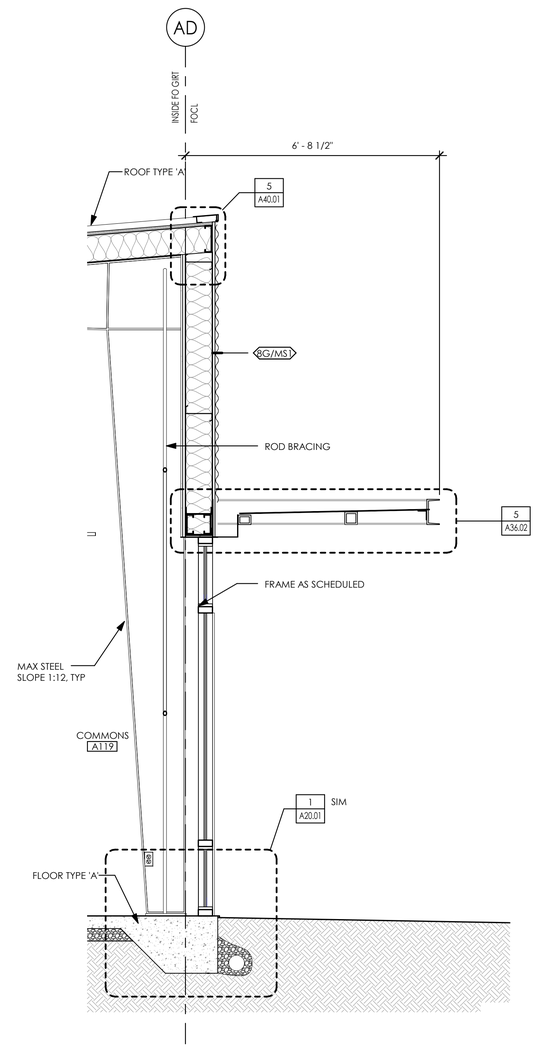


4 WALL SECTION
1/2" = 1'-0"



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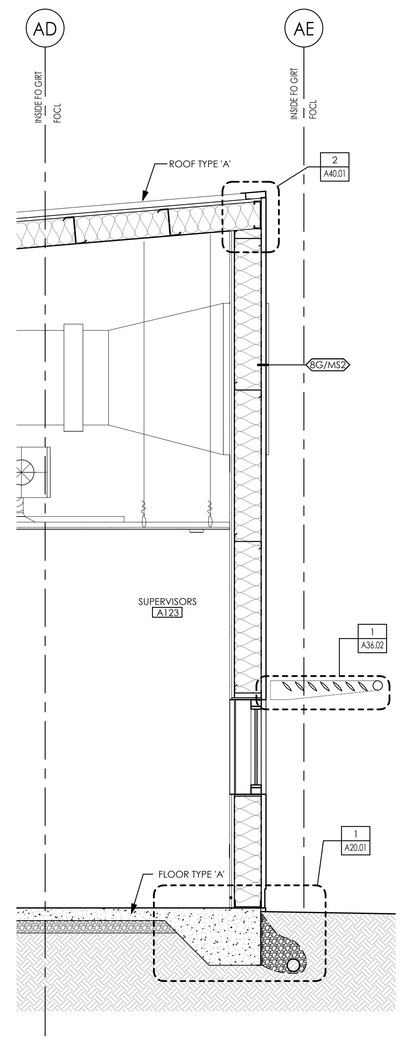

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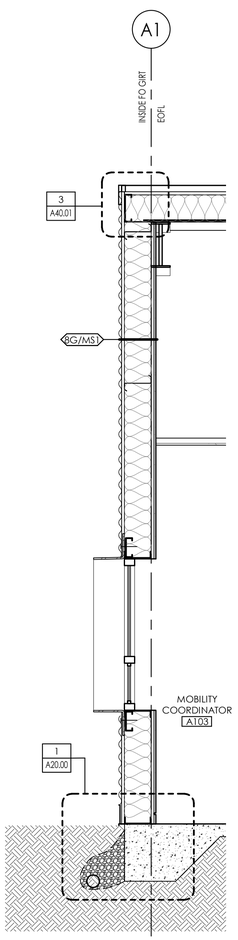

1 WALL SECTION
1/2" = 1'-0"

5617 REGISTERED ARCHITECT
RANDAL J. COOK
STATE OF WASHINGTON

BID SET

Project Title
JEFFERSON TRANSIT AUTHORITY

63 FOUR CORNERS RD
PORT TOWNSEND, WASHINGTON 98368

Project Numbers
2013-006

FTA PROJECT NUMBER: WA-0180-02

Issue & Revision Dates

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11 04 13	100% DD
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Sheet Title
BUILDING A WALL SECTIONS

Drawn By: MR
Checked By: MH

Sheet Number
Aa6.11

Sheet Number 61 Of 203

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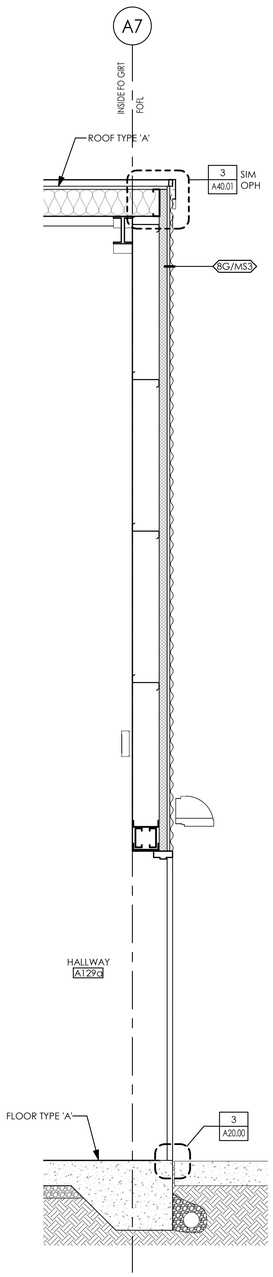
SECTIONS GENERAL NOTES

1. SEE A30 SERIES SHEETS FOR BUILDING AND WALL SECTION AND WALL TYPE GENERAL NOTES

SECTIONS SHEET NOTES

SEE A30 & A32 SERIES SHEETS FOR WALL TYPE DESCRIPTIONS & NOTES

ALL EXTERIOR WALL TYPES ARE 6S/MS1 UNO
ALL INTERIOR WALL TYPES ARE 6S1 UNO



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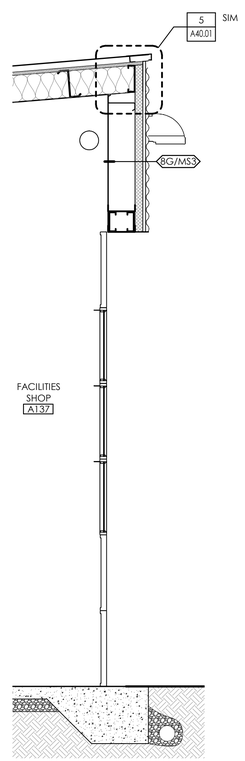
1/2" = 1'-0"



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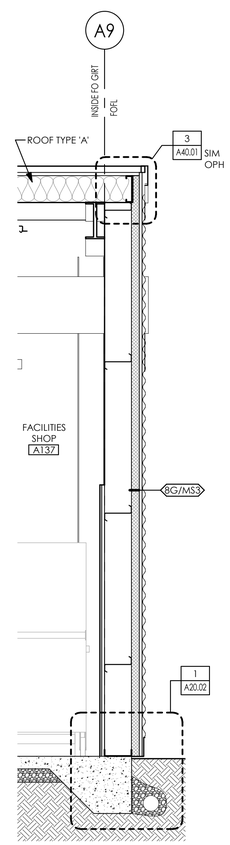

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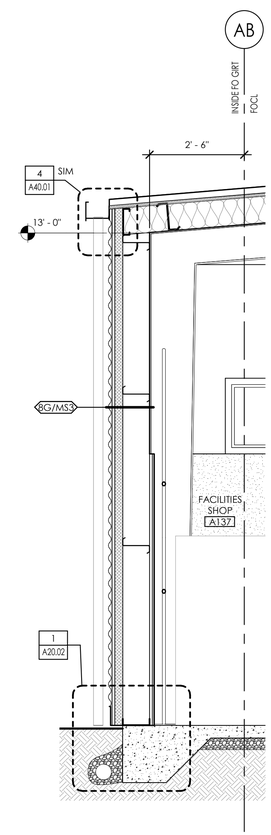

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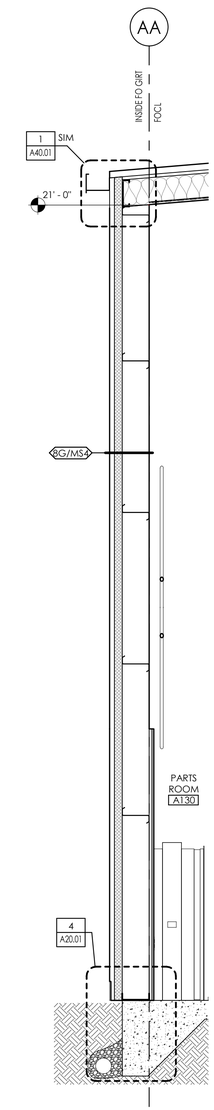

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1/2" = 1'-0"

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NOTE: DRAWING MAY BE REDUCED
0 4' 8' 16'

Sheet Title
BUILDING A WALL SECTIONS

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Sheet Number
Aa6.12

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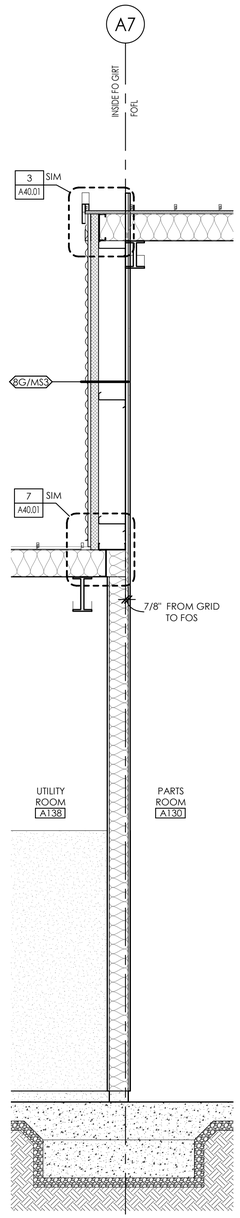

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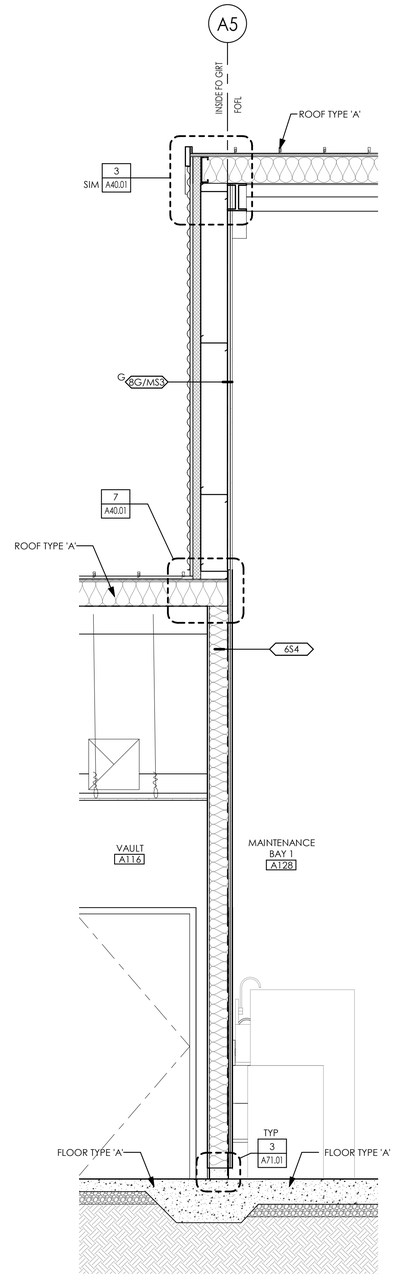

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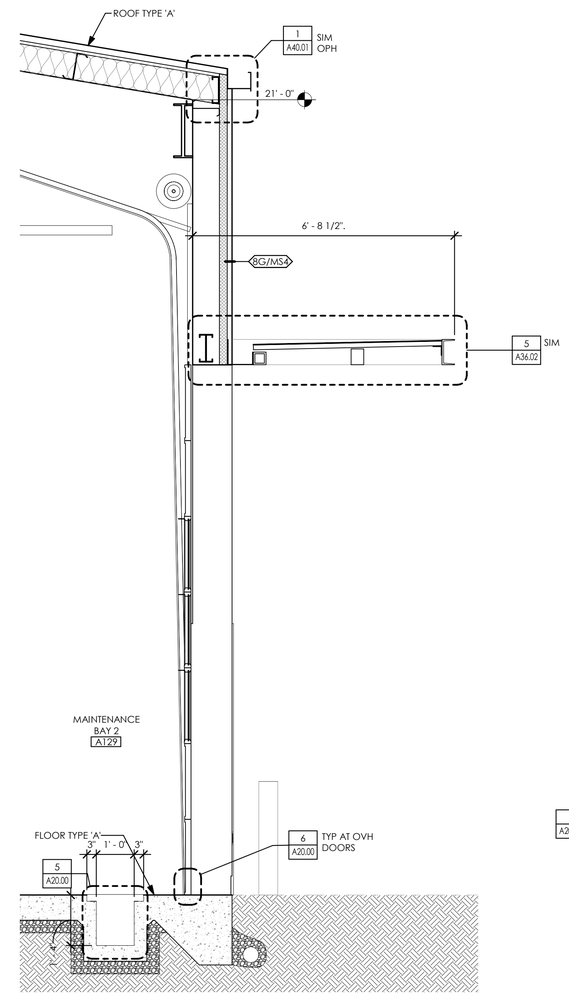

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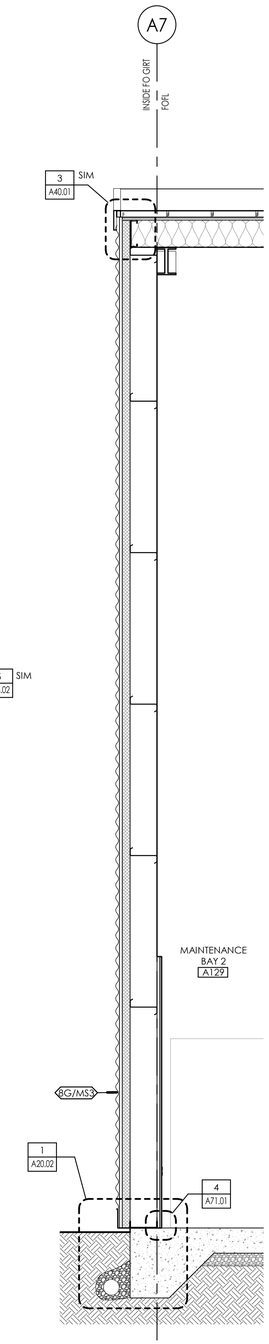

1 WALL SECTION
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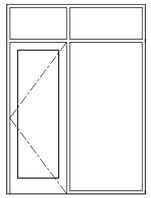

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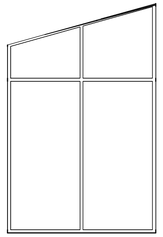

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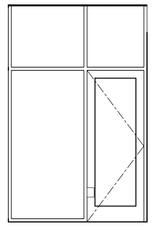

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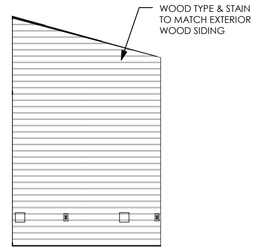

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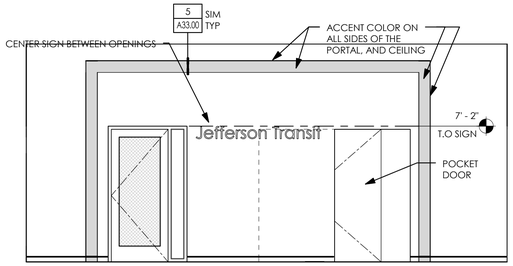

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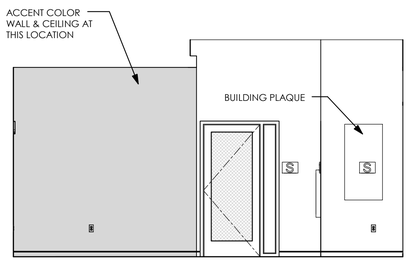

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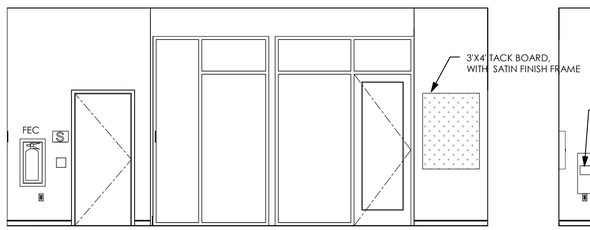
1/4" = 1'-0"



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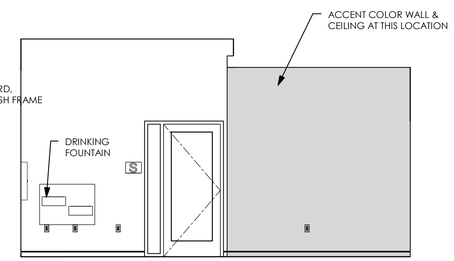

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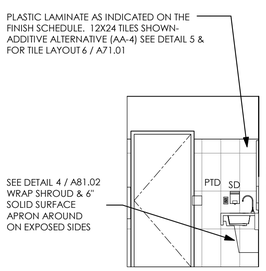

9 A102-N
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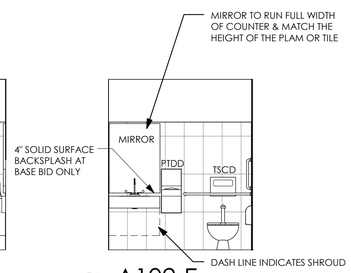

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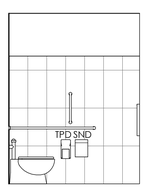

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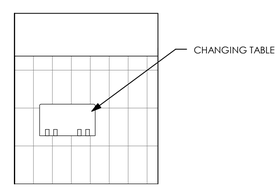

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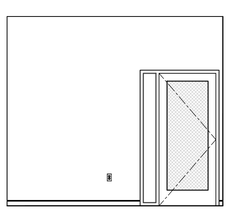

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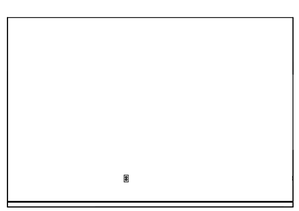

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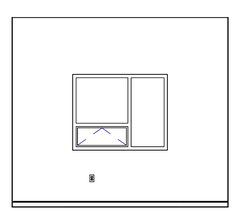

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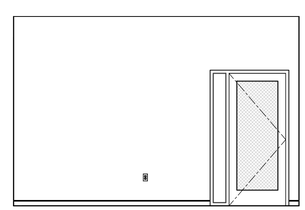


16 A103-W
1/4" = 1'-0"

INTERIOR ELEVATIONS GENERAL NOTES

A. GENERAL NOTES: SEE G2 SERIES SHEETS FOR ADDITIONAL INFORMATION.

B. SYMBOLS AND ABBREVIATIONS: SEE G2 SERIES SHEETS FOR SYMBOLS AND ABBREVIATIONS & A70 SERIES SHEETS FOR FINISH SCHEDULE ABBREVIATIONS.

C. COORDINATION: ALL TRADES TO COORDINATE THEIR WORK TO ACHIEVE LAYOUTS AS SHOWN ON INTERIOR ELEVATIONS.

D. DEVICE MOUNTING LOCATIONS: EXACT LOCATION OF ROOM ACCESSORY, FIXTURE, ALARM, OR MAJOR SERVICES NOT SHOWN SHALL BE VERIFIED WITH ARCHITECT PRIOR TO INSTALLATION. SEE G2 SERIES SHEETS FOR TYPICAL MOUNTING HEIGHTS. MOUNTING HEIGHTS SHOWN ON INTERIOR ROOM ELEVATIONS TAKE PRECEDENCE OVER TYPICAL HEIGHTS GIVEN ON G2 SERIES SHEETS.

E. DIMENSIONS INTERIOR ELEVATIONS: DIMENSIONS ARE TYPICALLY TO FINISHED SURFACES, UNLESS NOTED OTHERWISE. COORDINATE WITH FINISH MATERIAL THICKNESS AND FRAMING REQUIREMENTS.

F. BACKING AND BLOCKING: PROVIDE BACKING AND BLOCKING IN WALLS AS REQUIRED FOR MISCELLANEOUS WALL MOUNTED ITEMS, INCLUDING FOIC ITEMS, FIO ITEMS, AND ALL ELECTRICAL ITEMS (SEE ELECTRICAL DRAWINGS). SEE REQUIREMENTS IN SPECIFICATIONS AND ON THE STRUCTURAL DRAWINGS.

G. WALL BASE MATERIAL: BASES MAY NOT BE ILLUSTRATED ON INTERIOR ELEVATIONS. FOR REQUIRED BASE SEE FINISH SCHEDULE ON A70 SERIES SHEETS. IT IS THE INTENT TO PROVIDE A BASE AT ALL ROOMS, UNLESS NOTED OTHERWISE.

H. WAINSCOT DETAILS: SEE A71 SERIES SHEETS FOR TYPICAL WAINSCOT DETAILS. WHERE WAINSCOT PANELING IS SHOWN OR SCHEDULED ON BOTH SIDES OF A ROOM OR CORRIDOR, ALIGN VERTICAL PANEL JOINTS ON OPPOSING WALLS, UNLESS NOTED OTHERWISE.

I. EXTENT OF INTERIOR ELEVATIONS: INTERIOR ELEVATIONS HAVE BEEN DRAWN FOR WALLS WITH CASEWORK, MAJOR ACCESSORIES, OR COMPLEX GROUPINGS OF FIXTURES AND SERVICES. LACK OF INCLUSION OF A PARTICULAR WALL IN THE INTERIOR ELEVATION DRAWINGS SHALL NOT EXCLUDE IT FROM BEING FULLY CONSTRUCTED AND FINISHED AS SCHEDULED WITHIN THE BID.

J. ISLAND CASEWORK: SEE FLOOR PLANS FOR ISLAND CASEWORK IF NOT SHOWN ON INTERIOR ELEVATIONS.

K. COUNTER SUPPORTS: PROVIDE COUNTER SUPPORT BRACKETS, AS REQUIRED, SPACED 36" OC (MAXIMUM), FOR ALL COUNTERTOPS NOT SUPPORTED BY BASE CABINETS UNLESS SPECIFICALLY DETAILED OTHERWISE. ALSO SEE A80 SERIES SHEETS.

L. MIRRORS: PROVIDE FILLER AS REQUIRED BEHIND MIRRORS TO OBTAIN STABLE VERTICAL BACKING SURFACE.

M. APPLIANCES AT CABINETS: CABINET SIZES MUST BE COORDINATED WITH FINAL APPLIANCE SIZES, TYP. CONTRACTOR TO CONFIRM SPECIFIC MANUFACTURERS APPLIANCE SIZES AND INSTALLATION REQUIREMENTS AND COORDINATE WITH CABINET MANUFACTURER.

N. FRAMING COORDINATION: COORDINATE WALL AND CEILING FRAMING LAYOUT/PLACEMENT TO ACCOMMODATE PLACEMENT OF ITEMS SHOWN ON ELEVATIONS.

O. FINISH MATERIALS: SCHEDULED WALL FINISH MATERIAL SHALL TYPICALLY CONTINUE BEHIND WALL MOUNTED ITEMS OTHER THAN CASEWORK.

P. CONCEALED ITEMS COVER: AT ANY LOCATION WHERE STRUCTURAL CONNECTIONS, BOLTS, ETC., ARE NOT FULLY COVERED BY A SINGLE LAYER OF FINISH, ADD A SECOND LAYER OF THAT SAME MATERIAL TO COVER TO FULL EXTENT OF THAT WALL, OR AS DIRECTED BY THE ARCHITECT. INCLUDE ALL SUCH COSTS IN BID. CONSULT WITH ARCHITECT PRIOR TO COMMENCING IN SUCH LOCATIONS.

Q. HANDICAPPED ACCESSIBLE SINKS KNEE PROTECTION: AT RESTROOM LAVATORIES IN HANDICAPPED ACCESSIBLE RESTROOMS, PUBLIC AND PRIVATE, MECHANICAL SUBCONTRACTOR TO PROVIDE PIPE INSULATION ON ALL PIPES FROM LAVATORY TO WALL, NEATLY PLACED AND TRIMMED, TO PROVIDE KNEE PROTECTION. GENERAL CONTRACTOR SHALL COORDINATE.

R. RELIGHTS: SEE FLOOR PLANS FOR RELIGHT TYPE REFERENCES.

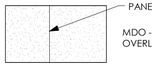
S. M/E/P DEVICES: INTERIOR ELEVATIONS DO NOT ILLUSTRATE ALL ELECTRICAL OR MECHANICAL ITEMS TO BE LOCATED ON WALLS. DEVICES SHOWN ON ELEVATIONS ARE FOR COORDINATION AND LOCATING PURPOSES. SEE ELECTRICAL AND MECHANICAL PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS FOR CLARIFICATION. LACK OF ILLUSTRATION OF MECHANICAL & ELECTRICAL ITEMS ON ARCHITECTURAL DRAWINGS DOES NOT EXCLUDE SUCH WORK FROM BID.

T. FOR CASEWORK SECTION, SEE DETAIL 1 / A80.00

INTERIOR ELEVATIONS LEGEND

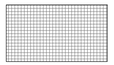
CT - CERAMIC TILE - ADDITIVE ALTERNATE (AA-4) BASE BID IN SHOWER ROOMS

WDS - WOOD STRIPPING



MDO - MEDIUM DENSITY OVERLAY

PAINTED ACCENT COLOR



CT - CERAMIC TILE (BACKSPLASH)

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Sheet Title
BUILDING A INTERIOR ELEVATIONS

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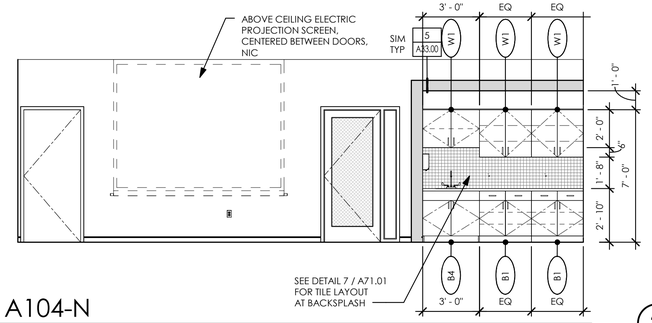
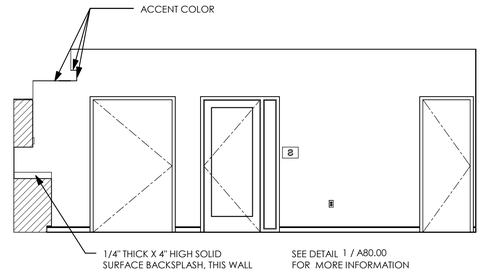


1 A104-N
1/4" = 1'-0"



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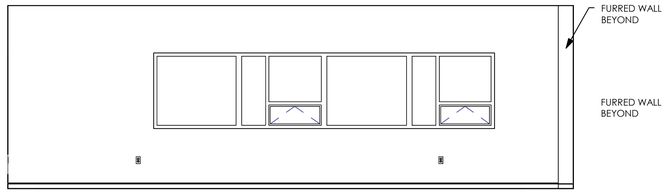
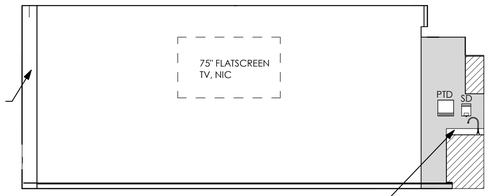


3 A104-S
1/4" = 1'-0"



4 A104-W
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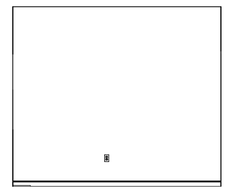

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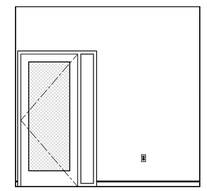
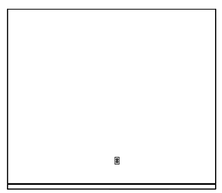
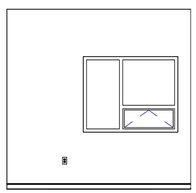


6 A105-E
1/4" = 1'-0"



7 A105-S
1/4" = 1'-0"



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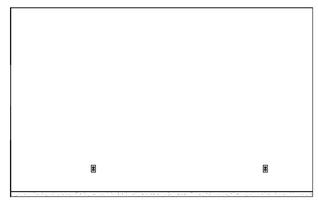
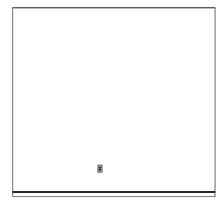
1/4" = 1'-0"



9 A109-N
1/4" = 1'-0"



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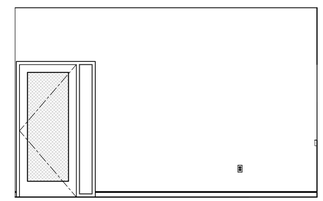
1/4" = 1'-0"



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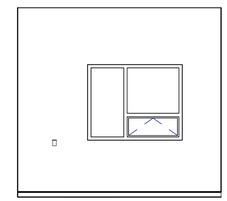
1/4" = 1'-0"



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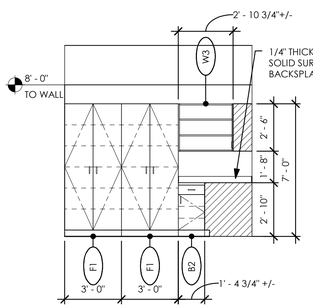
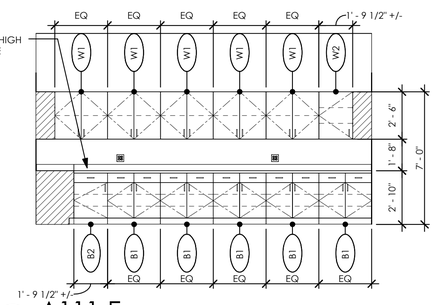
1/4" = 1'-0"



13 A111-N
1/4" = 1'-0"



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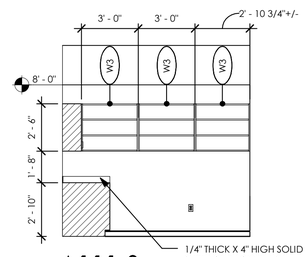

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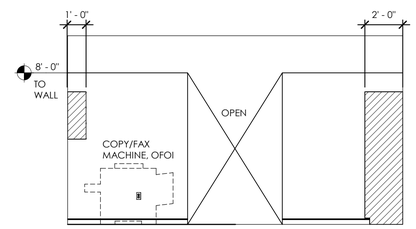

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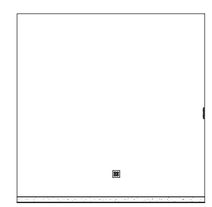

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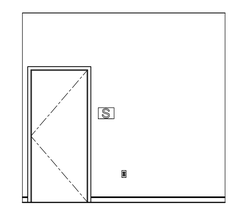

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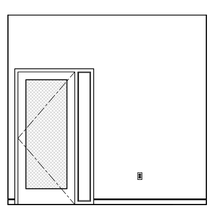

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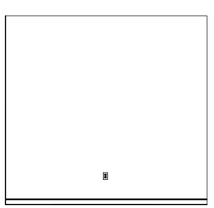

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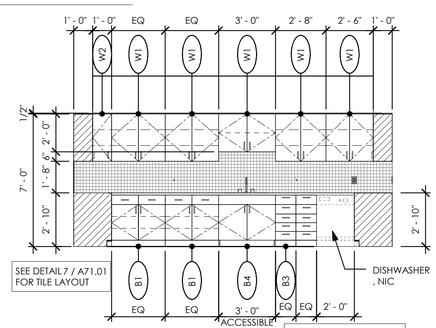

21 A118-N
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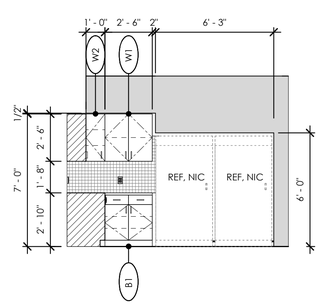

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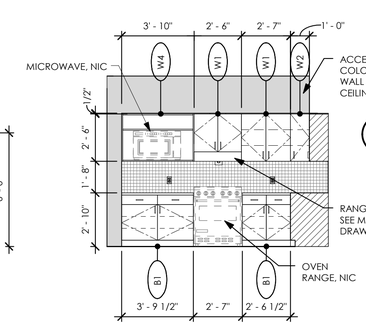

23 A118-W
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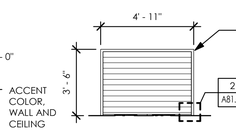
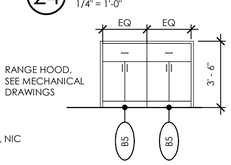


24 A118-N ISLAND
1/4" = 1'-0"



25 A118-S ISLAND
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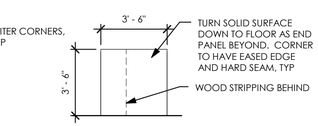

26 A118-W ISLAND
1/4" = 1'-0"

INTERIOR ELEVATIONS GENERAL NOTES

1. SEE SHEET Aa8.01 FOR INTERIOR ELEVATIONS GENERAL NOTES

INTERIOR ELEVATIONS LEGEND

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5617 REGISTERED ARCHITECT
RANDAL J. COOK
STATE OF WASHINGTON

BID SET

Project Title
JEFFERSON TRANSIT AUTHORITY

63 FOUR CORNERS RD
PORT TOWNSEND, WASHINGTON 98368

Project Numbers
2013-006

FTA PROJECT NUMBER: WA-0180-02

Issue & Revision Dates

08 07 13	100% SD
11 04 13	100% DD
12 30 13	AGENCY SET
02 05 13	BID SET

NOTE: DRAWING MAY BE REDUCED
0 4' 8' 16'

Sheet Title
BUILDING A INTERIOR ELEVATIONS

Drawn By MR
Checked By MH

Sheet Number
Aa8.02

Sheet Number 65 Of 203

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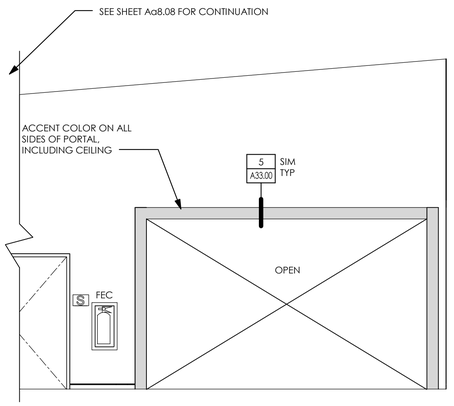

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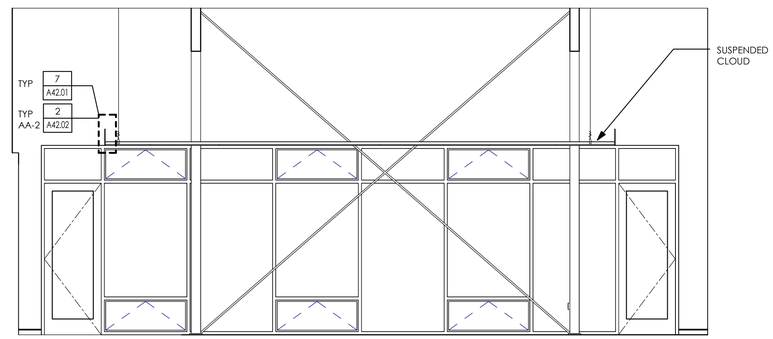

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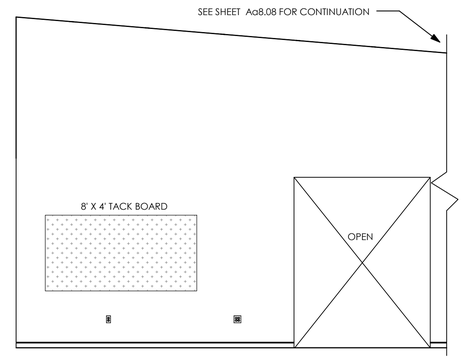

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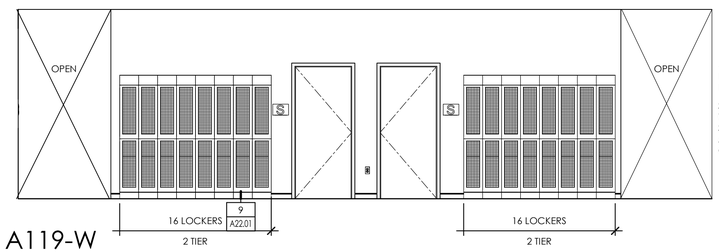

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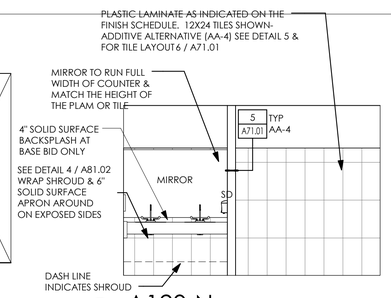
1/4" = 1'-0"



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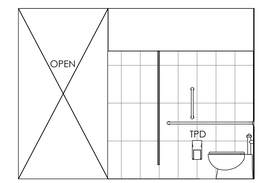

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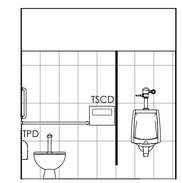
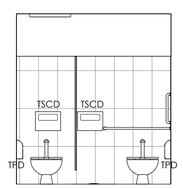


7 A120-S
1/4" = 1'-0"

8 A120-W
1/4" = 1'-0"



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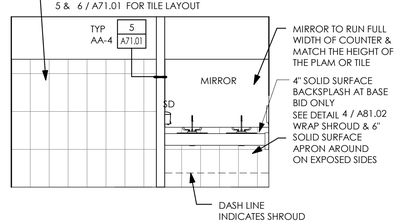

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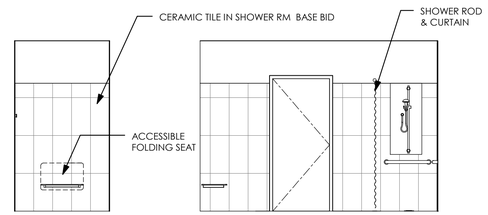

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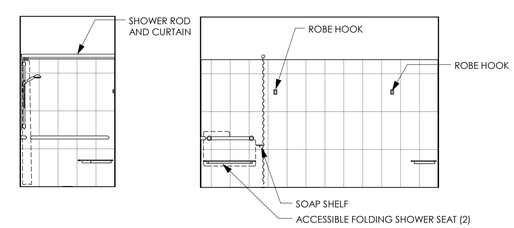
1/4" = 1'-0"

12 A120a-E
1/4" = 1'-0"



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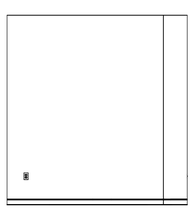
1/4" = 1'-0"

14 A120a-W
1/4" = 1'-0"



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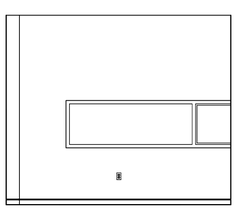

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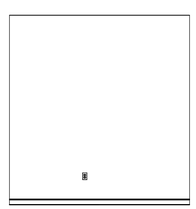
1/4" = 1'-0"



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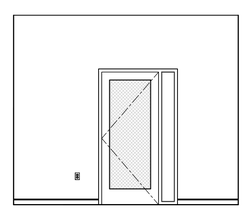

18 A123-W
1/4" = 1'-0"

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NOTE: DRAWING MAY BE REDUCED
0 4' 8' 16'

Sheet Title
BUILDING A INTERIOR ELEVATIONS

Drawn By MR
Checked By MH

Sheet Number
Aa8.03

Sheet Number 66 Of 203

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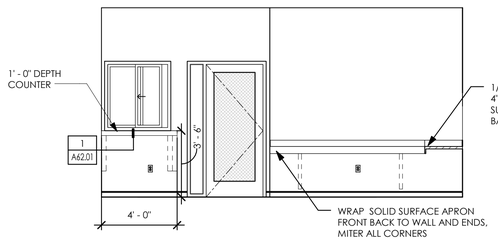

SEE DETAIL 3 / A81.02 FOR ADDITIONAL INFORMATION

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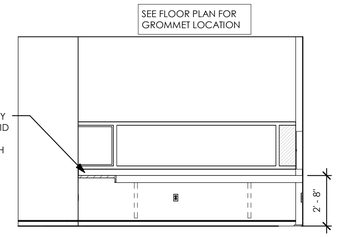

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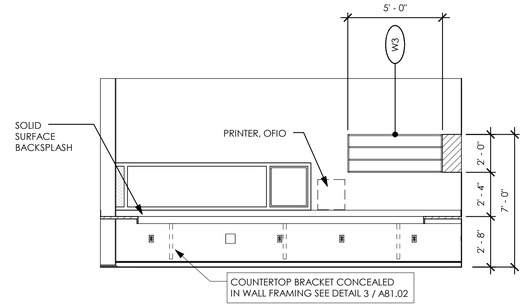

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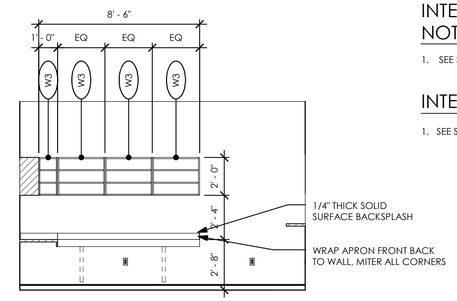

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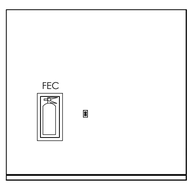

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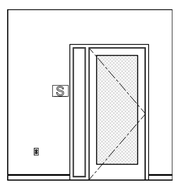

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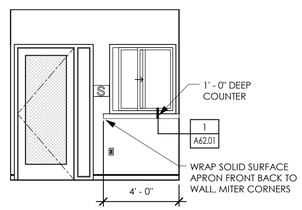
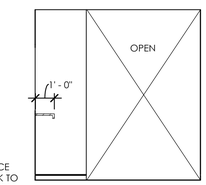
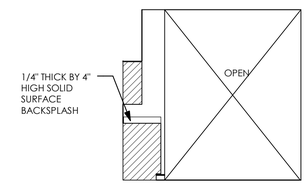


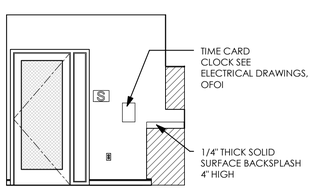
7 A125-S
1/4" = 1'-0"



8 A125-W
1/4" = 1'-0"

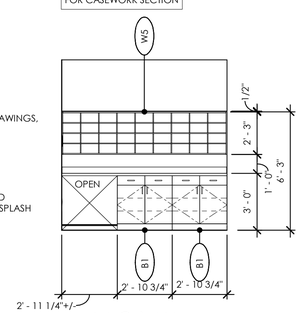


9 A126-N
1/4" = 1'-0"



11 A126-S
1/4" = 1'-0"

SEE DETAIL 1 / A80.00 FOR CASEWORK SECTION



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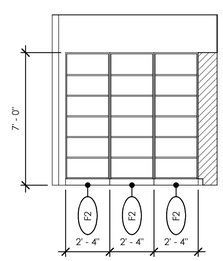

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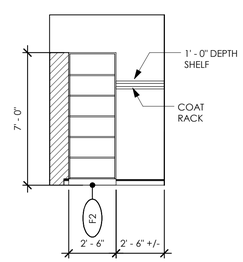

14 A127-S
1/4" = 1'-0"

INTERIOR ELEVATIONS GENERAL NOTES

1. SEE SHEET Aa8.01 FOR INTERIOR ELEVATIONS GENERAL NOTES

INTERIOR ELEVATIONS LEGEND

1. SEE SHEET Aa8.01 FOR INTERIOR ELEVATIONS LEGEND

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5617 REGISTERED ARCHITECT
RANDAL J. COOK
STATE OF WASHINGTON

BID SET

Project Title
JEFFERSON TRANSIT AUTHORITY

63 FOUR CORNERS RD
PORT TOWNSEND, WASHINGTON 98368

Project Numbers
2013-006

FTA PROJECT NUMBER: WA-0180-02

Issue & Revision Dates

08 07 13	100% SD
11 04 13	100% DD
12 30 13	AGENCY SET
02 05 13	BID SET

NOTE: DRAWING MAY BE REDUCED
0 4' 8' 16'

Sheet Title
BUILDING A INTERIOR ELEVATIONS

Drawn By MR
Checked By MH

Sheet Number
Aa8.04

Sheet Number 67 Of 203

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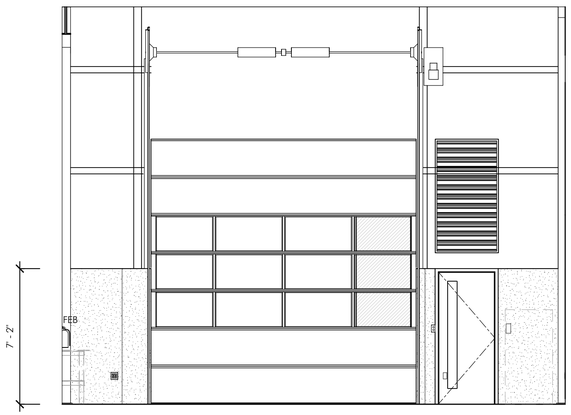

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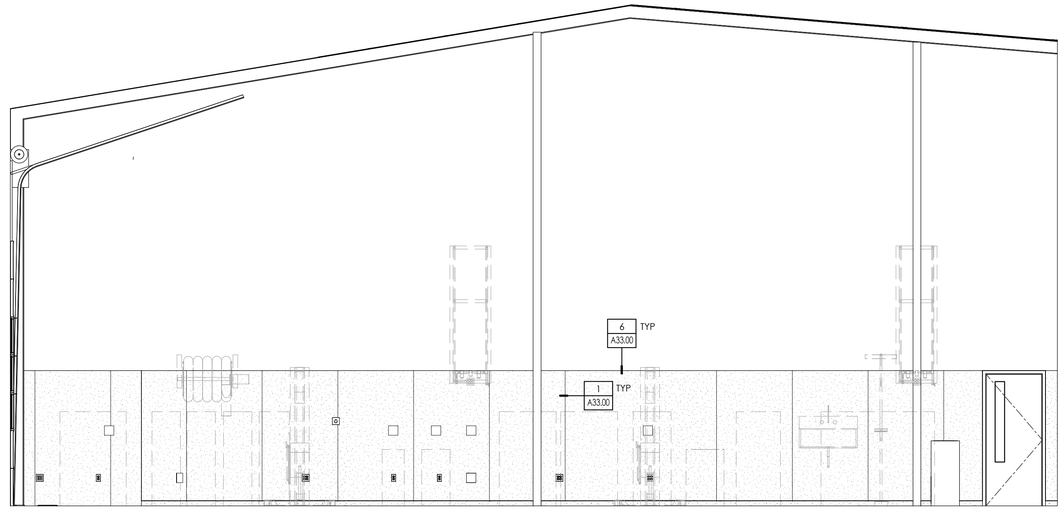

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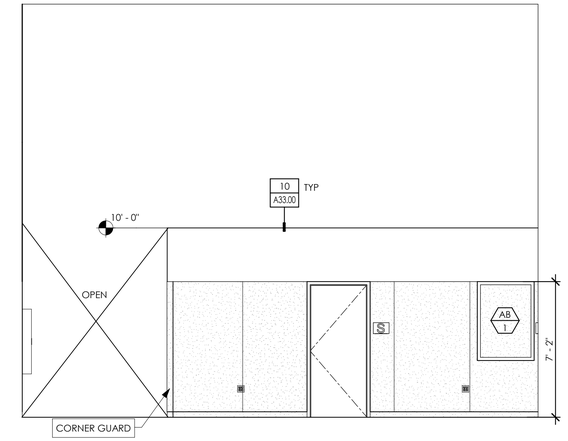

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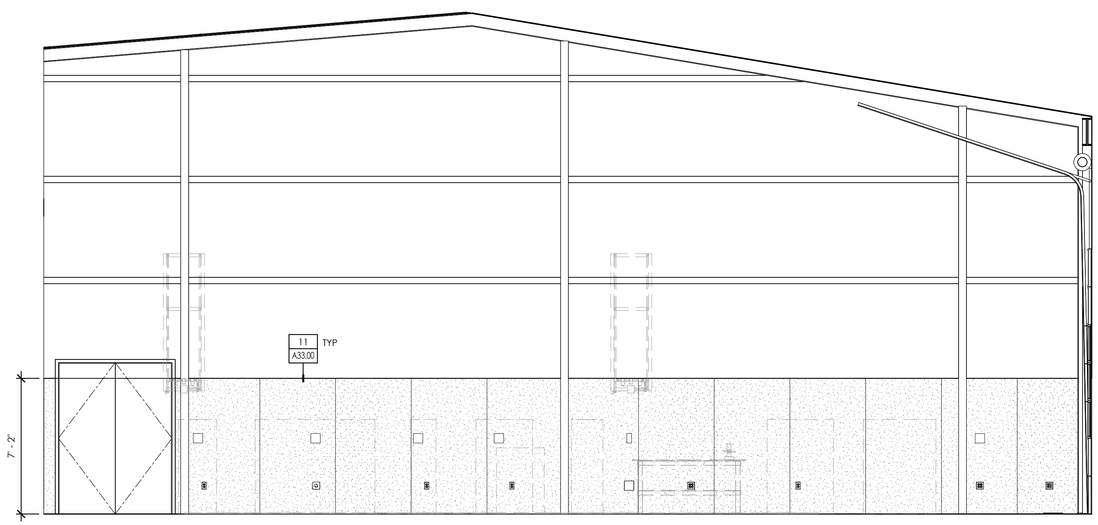

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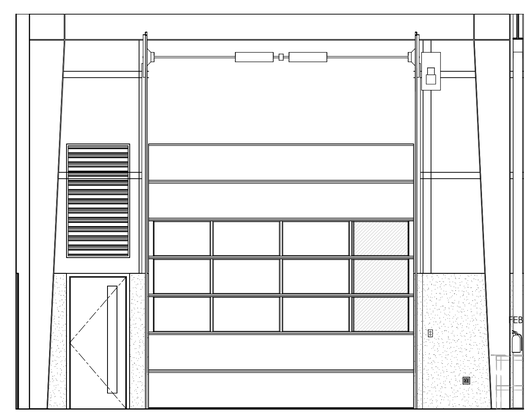
1/4" = 1'-0"



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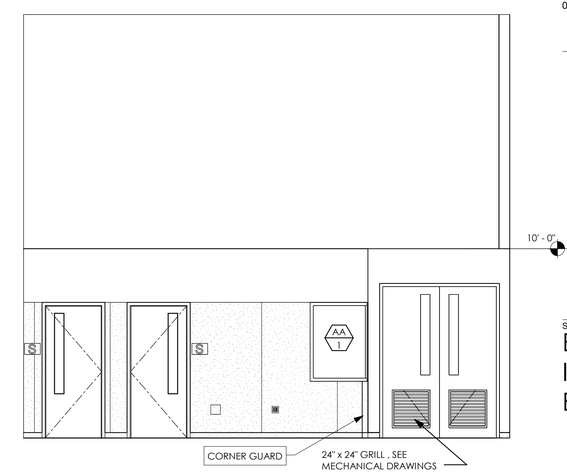

6 A129-W
1/4" = 1'-0"

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NOTE: DRAWING MAY BE REDUCED
0 4' 8' 16'

Sheet Title
BUILDING A INTERIOR ELEVATIONS

Drawn By MR
Checked By MH

Sheet Number
Aa8.05

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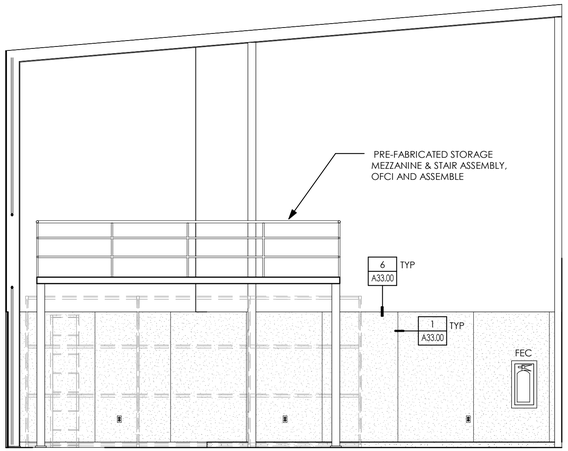

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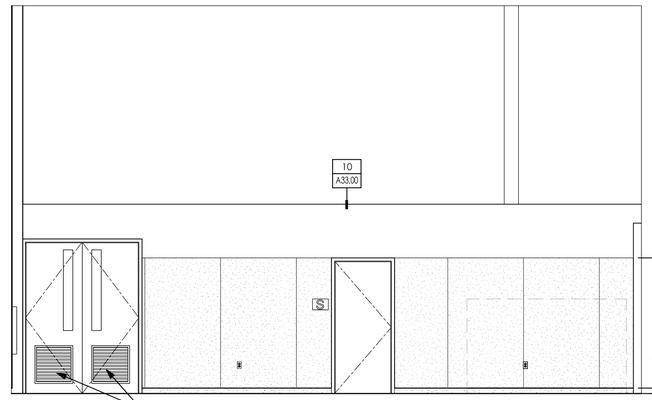

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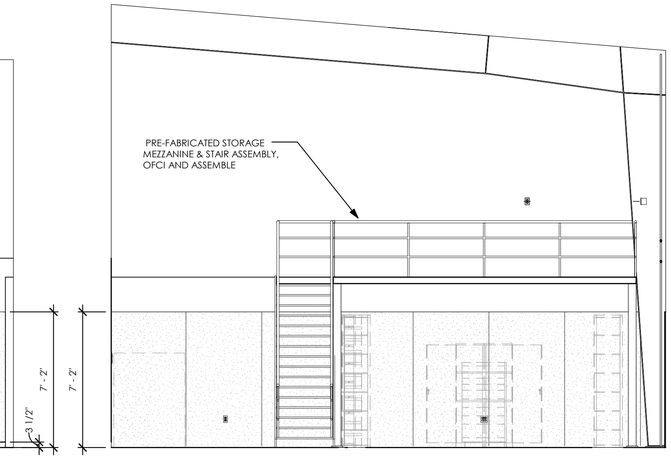

3 A130-S
1/4" = 1'-0"

INTERIOR ELEVATIONS GENERAL NOTES

1. SEE SHEET Aa8.01 FOR INTERIOR ELEVATIONS GENERAL NOTES

INTERIOR ELEVATIONS LEGEND

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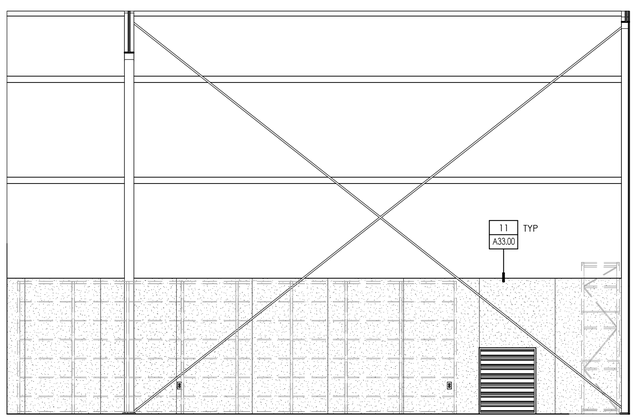

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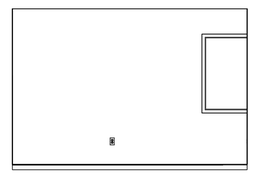

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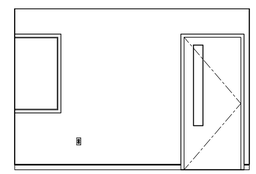

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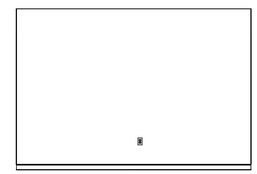

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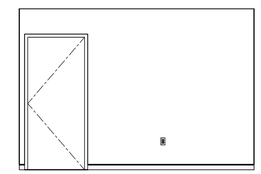

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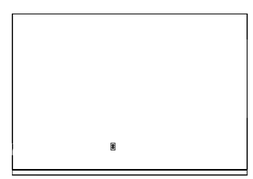

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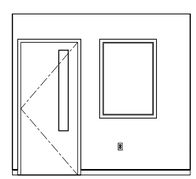

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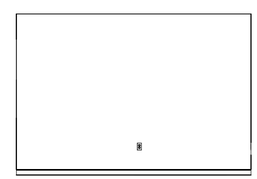

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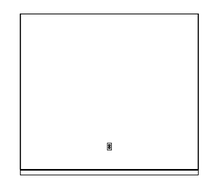

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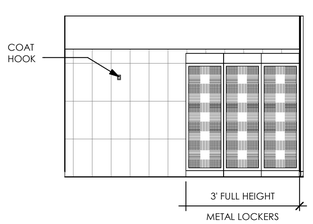

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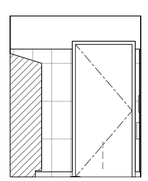

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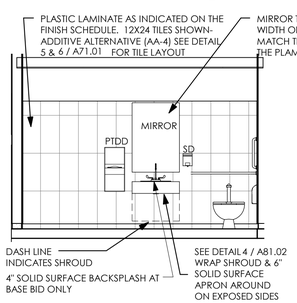

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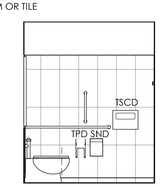

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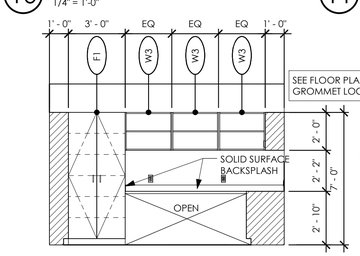

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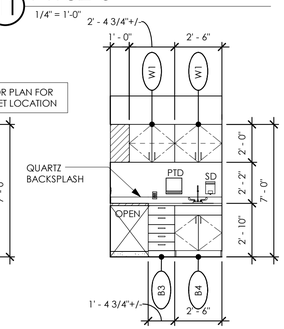

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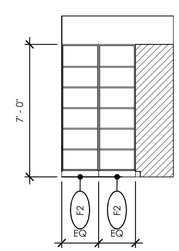

19 A134-W
1/4" = 1'-0"

NOTE: DRAWING MAY BE REDUCED
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Sheet Title
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Checked By MH

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INTERIOR ELEVATIONS GENERAL NOTES

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INTERIOR ELEVATIONS LEGEND

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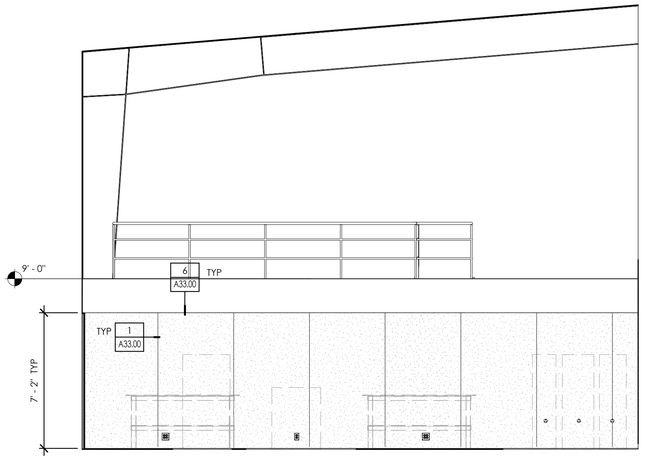

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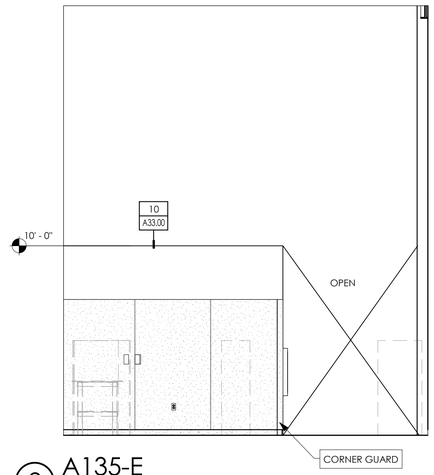

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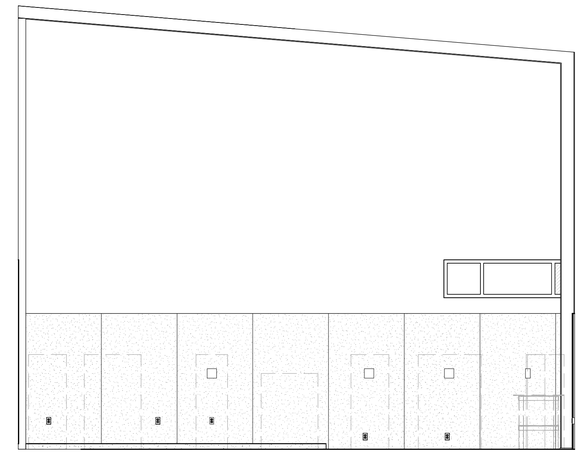

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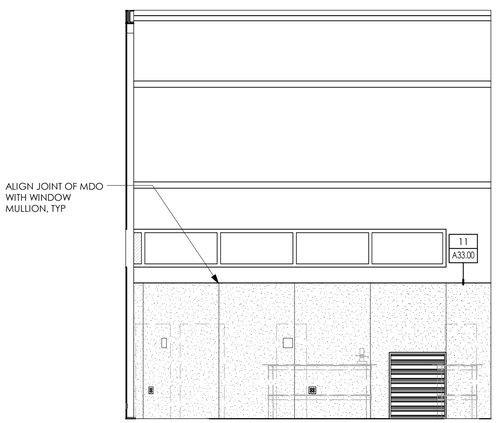

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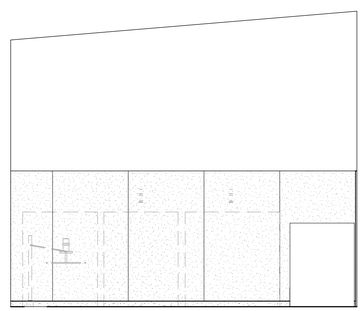

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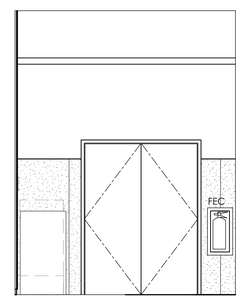

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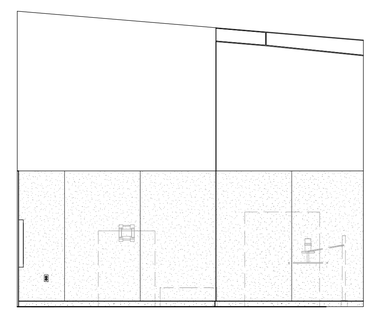

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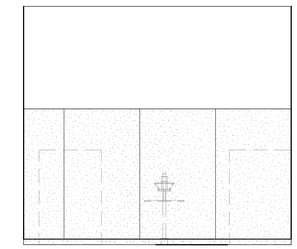

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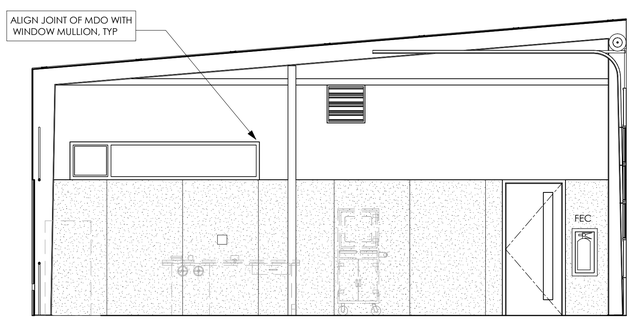

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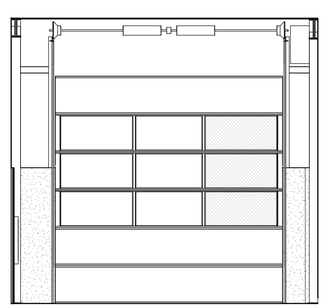

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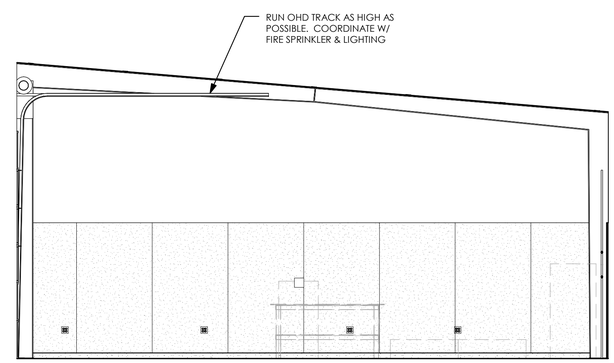

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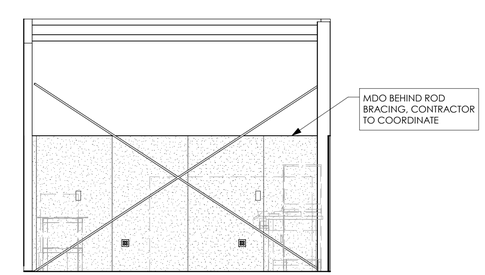

12 A137-W
1/4" = 1'-0"

BID SET

Project Title
JEFFERSON TRANSIT AUTHORITY

63 FOUR CORNERS RD
PORT TOWNSEND, WASHINGTON 98368

Project Numbers
2013-006

FTA PROJECT NUMBER: WA-0180-02

Issue & Revision Dates

08 07 13	100% SD
11 04 13	100% DD
12 30 13	AGENCY SET
02 05 13	BID SET

NOTE: DRAWING MAY BE REDUCED
0 4' 8' 16'

Sheet Title
BUILDING A INTERIOR ELEVATIONS

Drawn By MR
Checked By MH

Sheet Number
Aa8.07

Sheet Number 70 Of 203

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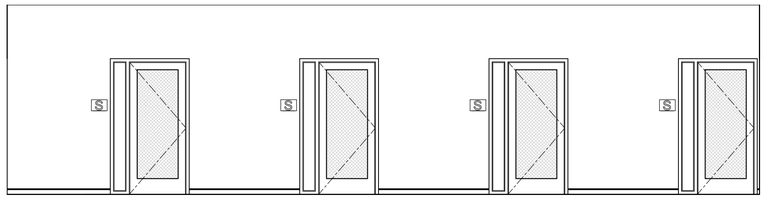
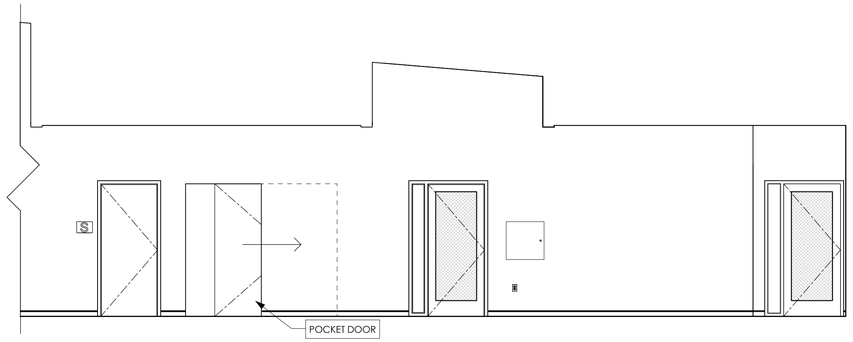
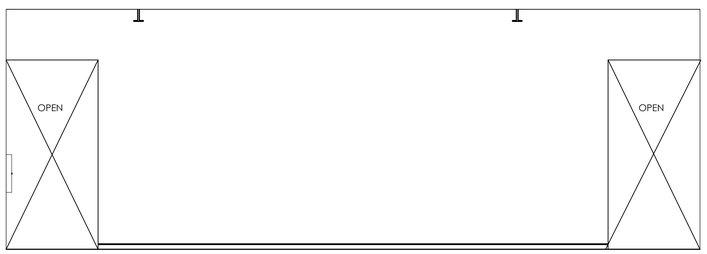


1 A100c-W
1/4" = 1'-0"



2 A119a-S
1/4" = 1'-0"



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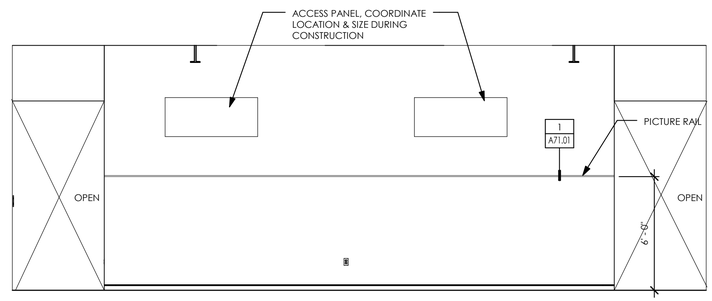
1/4" = 1'-0"



4 A100c-E
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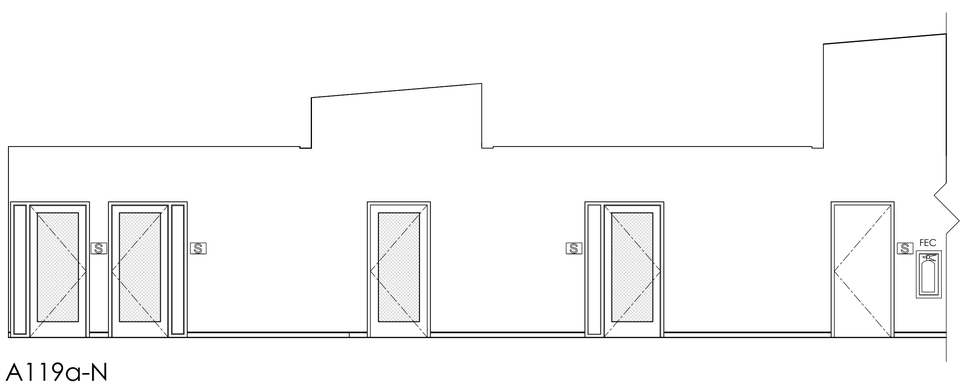

5 A119a-N
1/4" = 1'-0"

INTERIOR ELEVATIONS GENERAL NOTES

1. SEE SHEET Aa8.01 FOR INTERIOR ELEVATIONS GENERAL NOTES

INTERIOR ELEVATIONS LEGEND

1. SEE SHEET Aa8.01 FOR INTERIOR ELEVATIONS LEGEND

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5617 REGISTERED ARCHITECT
RANDAL J. COOK
STATE OF WASHINGTON

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GRAPHIC LEGEND

- NEW EQUIPMENT. CONTRACTOR FURNISHED CONTRACTOR INSTALLED (CFCI).
- EXISTING EQUIPMENT. OWNER FURNISHED OWNER INSTALLED (OFOI) AND NIC.
- NEW EQUIPMENT. OWNER FURNISHED OWNER INSTALLED (OFOI) AND NIC.

GENERAL NOTES:

A. 5 DIGIT MARK NUMBERS REPRESENT EXISTING EQUIPMENT.

B. 4 DIGIT MARK NUMBERS WITH OR WITHOUT ALPHA EXTENSION REPRESENT NEW EQUIPMENT TO BE FURNISHED AND INSTALLED AS GRAPHICALLY INDICATED AND SHOWN IN SECTION 110600.

C. ALL EQUIPMENT SHOWN ON THESE DRAWINGS IS BASED ON SPECIFIED MANUFACTURER. ANY MODIFICATIONS AND / OR SUBSTITUTIONS OF SAID EQUIPMENT MUST BE COORDINATED BY THE CONTRACTOR INCLUDING ALL CONNECTIONS, SERVICES, OPENING SIZES, AND ANY OTHER CONSTRUCTION RELATED REQUIREMENTS.

D. VERIFY AND COORDINATE ALL STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING REQUIREMENTS OF EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALLATION.

E. POSITION ALL EQUIPMENT AS SHOWN FOR CLIENT APPROVAL PRIOR TO CONNECTING UTILITIES.

F. ALL DIMENSIONS ARE AS NOTED AND NOT AS SHOWN.

G. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING COORDINATION BETWEEN ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, PLUMBING, EQUIPMENT, AND LANDSCAPE DOCUMENTS. ANY DISCREPANCY IN THE CONTRACT DRAWINGS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ANY FABRICATION, ORDERING, OR CONSTRUCTION.

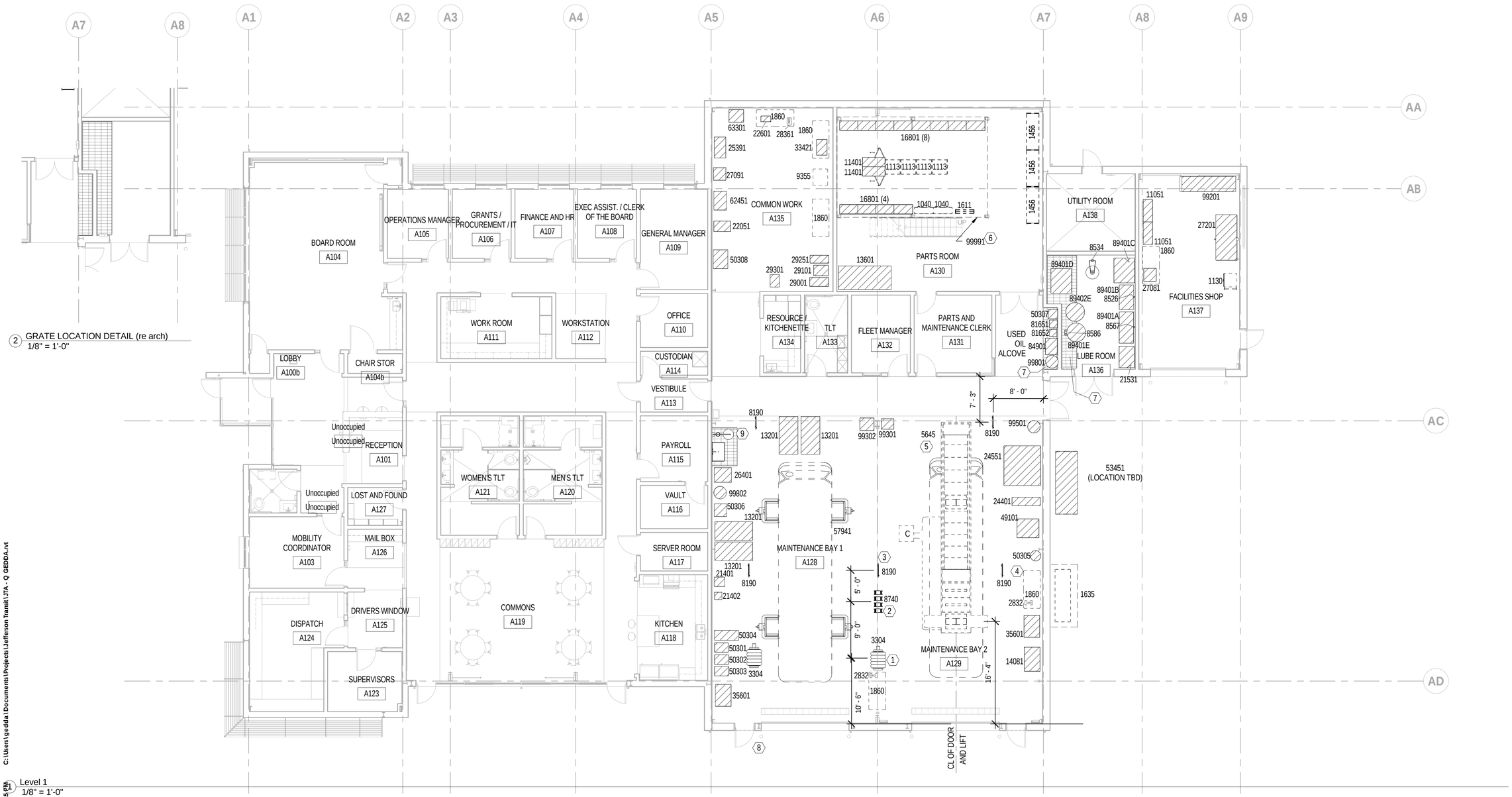
H. REFER TO EQUIPMENT SPECIFICATIONS FOR TYPES OF EQUIPMENT, SIZE, UTILITIES REQUIRED, AND OPTIONS. REFER TO EQUIPMENT DRAWINGS FOR LOCATION OF EQUIPMENT TO BE INSTALLED IN THE FLOOR SLAB. COORDINATE FORMING WITH THE APPROVED EQUIPMENT MANUFACTURER'S SHOP DRAWINGS.

I. REFER TO Q3.01 FOR EQUIPMENT MOUNTING HEIGHTS.

J. REFER TO SECTION 110600 FOR EQUIPMENT SCHEDULE

KEYED NOTES:

1. VEHICLE EXHAUST REEL (#3305) SUSPENDED FROM STRUCTURE ABOVE. CONTROLS TO BE SUSPENDED FROM REEL AT EACH BAY. (re: mechanical, electrical, and structural)
2. LUBRICATION REEL (#8760) SUSPENDED FROM STRUCTURE ABOVE AND PLUMBED TO CENTRAL LUBE ROOM. (re: plumbing and structural)
3. TRAPEZE (#8190) SUSPENDED FROM STRUCTURE ABOVE. FABRICATED ITEM. (re: plumbing, structural, and electrical) (re: sheet Q3.01 for details)
4. STEEL WORKBENCH (#1860). FABRICATED. (re: sheet Q3.01)
5. VEHICLE LIFT (#5645) AND CONTROL CONSOLE. VERIFY LOCATION AND ALL DIMENSIONS WITH OWNER PRIOR TO INSTALLATION.(re: approved manufacturer's shop drawings for installation) (re: structural, plumbing, and electrical) (re: coordinate with owner for installation and pit construction)
6. MEZZANINE (#99991). OWNER FURNISHED / CONTRACTOR INSTALLED.
7. SUMP PIT WITH DRAIN AND REMOVABLE GRATING FLUSH WITH SURROUNDING FLOOR. (re: structural for sump and grating)
8. STEEL PIPE BOLLARD TYPICAL (re: architectural)
9. HANDWASH SINK TO BE PLUMBED TO DRAIN. SUMP UNDER HANDWASH SINK AND EYEWASH/SAFETY SHOWER WITH REMOVABLE GRATING FLUSH WITH SURROUNDING FLOOR. (re: structural for sump and grating) (re: plumbing for drain)



2 GRATE LOCATION DETAIL (re arch)
1/8" = 1'-0"

1 Level 1
1/8" = 1'-0"

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Sheet Title
JTA EQUIPMENT LAYOUT DRAWING

Drawn By **PCG**
Checked By **MJP**

Sheet Number
Qa2.01

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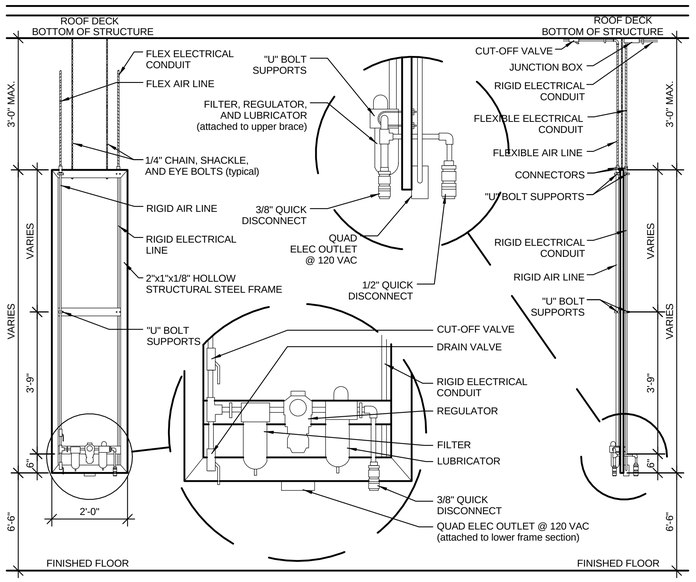
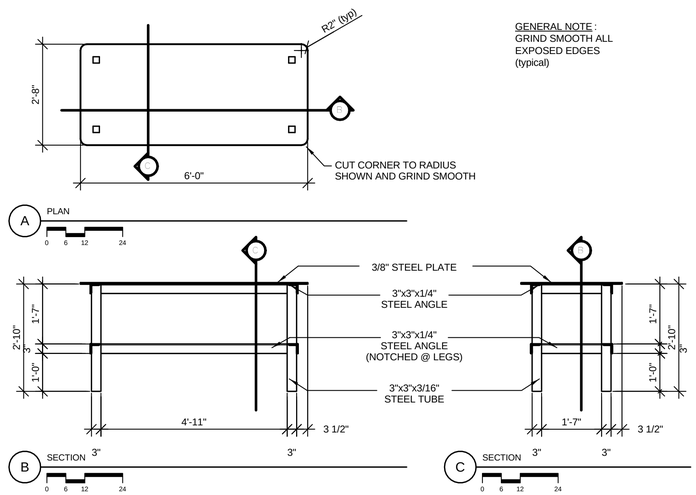


A FRONT ELEVATION 1/2"=1'-0"

B SIDE ELEVATION

8190 - TRAPEZE DETAIL



GENERAL NOTE : GRIND SMOOTH ALL EXPOSED EDGES (typical)

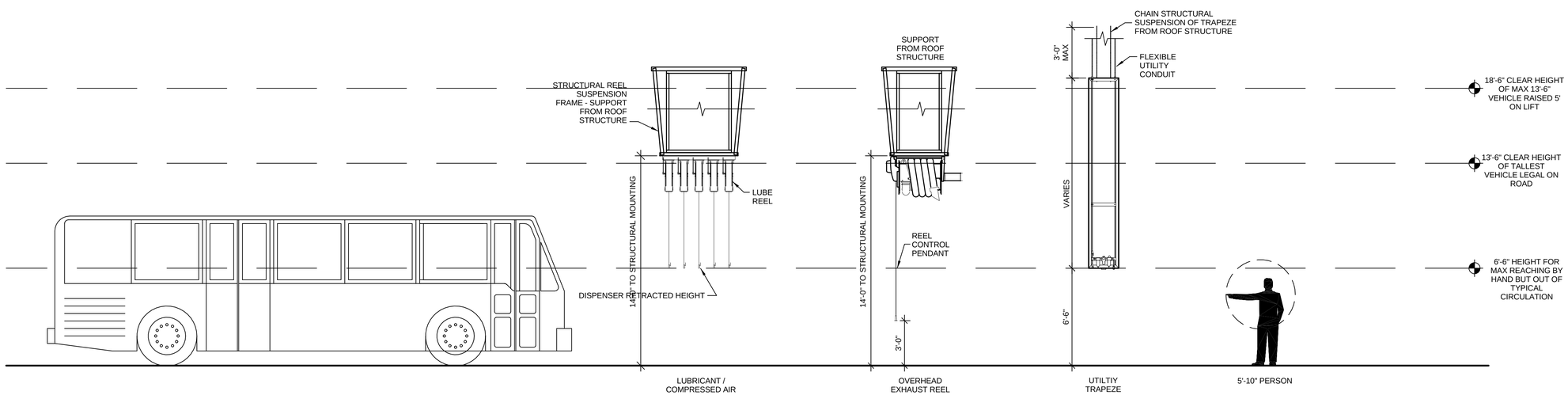
A PLAN

B SECTION

C SECTION

1860 - WORKBENCH DETAIL

1 Equipment Details
1/2" = 1'-0"



SHOP EQUIPMENT MOUNTING HEIGHTS

2 Mounting Heights
1/4" = 1'-0"

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EQUIPMENT DETAILS & ELEVATIONS

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Sheet Number
Q3.01

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1. STRUCTURAL NOTES

1.1 ANY DISCREPANCY FOUND AMONG THE DRAWINGS, SPECIFICATIONS, THESE NOTES, AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND THE STRUCTURAL ENGINEER, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE CONTRACTOR'S RISK. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION. THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION BRACING, FORMWORK AND TEMPORARY CONSTRUCTION SHORING.

1.2 BY THE ACT OF SUBMITTING A BID FOR THE PROPOSED CONTRACT, THE CONTRACTOR WARRANTS THAT:

1.2.1 THE CONTRACTOR AND ALL SUBCONTRACTORS HE INTENDS TO USE (INCLUDING AGENTS AND SUPPLIERS) HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS AND STRUCTURAL NOTES AND HAVE FOUND THEM COMPLETE AND FREE FROM AMBIGUITIES AND SUFFICIENT FOR THE PURPOSE INTENDED.

1.2.2 THE CONTRACTOR HAS CAREFULLY EXAMINED THE SITE OF THE WORK AND THAT FROM HIS OWN INVESTIGATIONS, HE HAS SATISFIED HIMSELF AS TO THE NATURE AND LOCATION OF THE WORK, AS TO THE CHARACTER QUALITY, AND QUANTITIES OF MATERIAL AND DIFFICULTIES TO BE ENCOUNTERED, AS TO THE EXTENT OF EQUIPMENT AND OTHER FACILITIES NEEDED FOR THE PERFORMANCE OF THE WORK AND AS TO THE GENERAL AND LOCAL CONDITIONS, AND OTHER ITEMS WHICH MAY IN ANY AFFECT THE WORK OR ITS PERFORMANCE.

1.2.3 THE CONTRACTOR AND ALL WORKERS HE INTENDS TO USE ARE SKILLED AND EXPERIENCED IN THE TYPE OF CONSTRUCTION REPRESENTED BY THE DRAWINGS AND DOCUMENTS BID UPON.

1.2.4 NEITHER THE CONTRACTOR NOR ANY OF HIS EMPLOYEES, AGENTS, INTENDED SUPPLIERS, OR SUBCONTRACTORS HAVE RELIED UPON ANY VERBAL REPRESENTATIONS ALLEGEDLY AUTHORIZED OR UNAUTHORIZED FROM THE OWNER OR HIS EMPLOYEES OR AGENTS, INCLUDING THE ARCHITECT OR ENGINEERS, IN ASSEMBLING THE BID FIGURES.

1.2.5 THE REQUIREMENTS CONTAINED WITHIN THIS SECTION SUPERSEDE REQUIREMENTS AND/OR RECOMMENDATIONS CONTAINED IN THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDING AND BRIDGES", AS WELL AS CASE DOCUMENT 962-D "A GUIDELINE ADDRESSING COORDINATION AND COMPLETENESS OF STRUCTURAL CONSTRUCTION DOCUMENTS"

1.2.6 THE CONTRACTOR AND ALL SUBCONTRACTORS HE INTENDS TO USE ARE AWARE OF AND ACKNOWLEDGE THAT CLOSE COORDINATION AMONG ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND OTHER TRADE DRAWINGS IS REQUIRED.

1.2.7 THE CONTRACTOR AND ALL SUBCONTRACTORS HE INTENDS TO USE SHALL RECOGNIZE THAT THE PROJECT CONTRACT DOCUMENTS INCLUDE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL AND OTHER TRADE DRAWINGS AND SPECIFICATIONS.

1.2.8 THE CONTRACTOR AND ALL SUBCONTRACTORS ACKNOWLEDGE THAT CLOSE COORDINATION BETWEEN DISCIPLINES INCLUDED WITHIN THE CONTRACT DOCUMENTS IS NECESSARY. ELEMENTS THAT WILL REQUIRE CLOSE COORDINATION BY THE CONTRACTOR INCLUDE (BUT ARE NOT LIMITED TO):

A. VERIFICATION OF ALL DIMENSIONS INDICATED ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS

B. DETERMINATION OF ALL COLUMN LOCATIONS

C. DETERMINATION OF TOP OF FLOOR, TOP OF STEEL, WALL PLATE AND/OR TOP OF BEAM ELEVATIONS

D. DETERMINATION OF TOP OF FOOTING ELEVATIONS AND FOOTING STEP LOCATIONS

E. MECHANICAL/ELECTRICAL EQUIPMENT LOCATIONS AND WEIGHTS

F. LOCATION AND SIZE OF ALL MECHANICAL/ ELECTRICAL PENETRATIONS THROUGH WALLS AND FLOORS/ ROOFS

G. COORDINATION WITH DESIGNERS/ SUPPLIERS OF PRE-ENGINEERED COMPONENTS (JOISTS, TRUSSES, STAIRS, ETC.)

1.2.9 THE CONTRACTOR ACKNOWLEDGES THAT TEMPORARY SHORING AND/OR BRACING MAY BE REQUIRED TO COMPLETE THE PROJECT. DESIGN AND IMPLEMENTATION OF TEMPORARY SHORING AND/OR BRACING DURING CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

1.2.10 THE CONTRACTOR AND ALL SUBCONTRACTORS HE INTENDS TO USE SHALL MAKE CONSIDERATION FOR, AND INCLUDE MONIES FOR THE ABOVE IN THE PREPARATION OF THEIR BIDS.

1.2.11 THE CONTRACTOR SHALL NOT SCALE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATIONS OF ELEMENTS NOTED ABOVE.

1.2.12 ELECTRONIC COPIES OF THE STRUCTURAL DRAWINGS (PDF'S, CAD DRAWINGS OR BIM MODELS) MAY BE PROVIDED TO THE CONTRACTOR FOR THEIR USE. THESE FILES MAY BE PROVIDED AT THE REQUEST OF THE CONTRACTOR FOR THEIR CONVENIENCE ONLY. THE CONTRACTOR AGREES THAT THESE FILES SHALL NOT SUPERCEDE INFORMATION SHOWN ON THE ORIGINAL BID/ CONSTRUCTION DOCUMENTS. THE CONTRACTOR AGREES TO HOLD THE STRUCTURAL ENGINEER HARMLESS FOR ANY ERRORS OR DISCREPANCIES CONTAINED WITHIN THESE ELECTRONIC FILES.

1.2.13 THE BID FIGURE IS BASED SOLELY UPON THE CONSTRUCTION CONTRACT DOCUMENTS AND PROPERLY ISSUED WRITTEN OR VERBAL REPRESENTATIONS.

1.4 CODES

1.4.1 ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2012 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING AUTHORITY.

1.4.2 ALL REFERENCES TO OTHER CODES, STANDARDS AND SPECIFICATIONS, (ACI, ASTM, ETC.), SHALL BE FOR THE EDITION CURRENTLY REFERENCED BY IBC AS AMENDED AND ADOPTED BY THE LOCAL BUILDING AUTHORITY.ALL REFERENCES TO OTHER CODES, STANDARDS AND SPECIFICATIONS, (ACI, ASTM, ETC.), SHALL BE FOR THE EDITION CURRENTLY REFERENCED BY IBC AS AMENDED AND ADOPTED BY THE LOCAL BUILDING AUTHORITY.

1.5 DESIGN CRITERIA

1.5.2 UNIFORM LOADS:

LOCATION	LIVE LOAD	DEAD LOAD
ROOF	25 PSF (SNOW*)	ACTUAL
CEILING JOISTS	40 PSF	ACTUAL
STEEL GRATING	250 PSF AND HS20-44	ACTUAL
OWNER FURNISHED MEZZANINE	125 PSF	ACTUAL
STRUCTURAL SLAB ON GRADE	125 PSF (4" SLAB + 6" SLAB) 250 PSF AND HS20-44 (8" SLAB)	ACTUAL
GUARDRAILS HANDRAILS AND GRABS	50 PLF OR 200 LB CONCENTRATED LOAD	ACTUAL

* THIS IS NOT A GROUND SNOW LOAD

1.5.3 SNOW LOADS PER IBC SECTION 1608 AND CHAPTER 7 OF ASCE 7:

GROUND SNOW LOAD (Pg):	25.0 PSF
FLAT ROOF SNOW LOAD (Pf):	25.0 PSF
SNOW EXPOSURE FACTOR (Ce):	1.0
SNOW IMPORTANCE FACTOR (Is):	1.0
THERMAL FACTOR (Ct):	1.0

1.5.4 CONCENTRATED LOADS: ALL MANUFACTURERS OF PRE-ENGINEERED COMPONENTS OR SYSTEMS SHALL LOCATE, COORDINATE, VERIFY WEIGHTS, ETC., OF MECHANICAL UNITS OR OTHER CONCENTRATED LOADS AND DESIGN THEIR SYSTEM FOR THESE LOADS.

1.5.5 CRANE LOADS: CRANE LOAD RATING SHALL BE AS INDICATED ON THE DRAWINGS. LIVE LOADS, MAXIMUM WHEEL LOADS, VERICAL IMPACT FORCES AND LATERAL FORCES SHALL BE AS DESCRIBED IN IBC SECTION 1607.13.

1.5.6 WIND LOADS (PER IBC SECTION 1609 AND ASCE 7 CHAPTERS 26 THRU 30):

ULTIMATE DESIGN WIND SPEED (V ult):	110 MPH
RISK CATEGORY:	II
WIND EXPOSURE:	B
APPLICABLE INTERNAL PRESSURE COEFFICIENT:	+/-0.18
TOPOGRAPHIC FACTOR (Kzt)	1.0

COMPONENTS AND CLADDING: ULTIMATE DESIGN WIND PRESSURES TO BE USED FOR THE DESIGN OF EXTERIOR COMPONENT AND CLADDING MATERIALS IS AS FOLLOWS:

ZONE:1 +16.0/-48.1 PSF (10 SQ FT)
ZONE:2 +16.0/-75.5 PSF (10 SQ FT)
ZONE:3 +16.0/-75.5 PSF (10 SQ FT)
ZONE:4 +32.9/-32.9 PSF (10 SQ FT)
ZONE:5 +32.9/-60.3 PSF (10 SQ FT)

1.5.7 SEISMIC LOADS (PER IBC SECTION 1613 AND ASCE 7 CHAPTERS 11 THRU 13):

RISK CATEGORY:	II
SEISMIC IMPORTANCE FACTOR (Ie):	1.0
Ss :	1.18
S1 :	0.43
SITE CLASS:	D
Sds :	0.809
Sd1 :	0.452
SEISMIC DESIGN CATEGORY:	D
DESIGN BASE SHEAR:	0.249 W (OCBF) 0231 W (OMRF) 0.323 W (OCCS)
ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE PROCEDURE

SEISMIC FORCE-RESISTING SYSTEM	RESPONSE MODIFICATION COEFFICIENT, R	OVERSTRENGTH FACTOR, Ωo
B. BUILDING FRAME SYSTEMS:		
3. ORDINARY STEEL CONCENTRICALLY BRACED FRAMES	3 1/4	2
C. MOMENT-RESISTING FRAME SYSTEMS:		
4. ORDINARY STEEL MOMENT FRAMES	3 1/2	2 1/2
G.CANTILEVERED COLUMN SYSTEMS:		
2. STEEL ORDINARY CANTILEVERED COLUMN SYSTEM	1 1/4	1 1/4

NOTE: TABULATED OVERSTRENGTH FACTOR HAS BEEN REDUCED IN ACCORDANCE WITH ASCE 7 TABLE 12.2-1 FOOTNOTE G FOR STRUCTURES WITH FLEXIBLE DIAPHRAGMS.

1. STRUCTURAL NOTES .

1.6 STATEMENT OF SPECIAL INSPECTIONS

SEE STATEMENT OF SPECIAL INSPECTION AND TESTING SHEET Sa1.03 AND Sa1.04

1.7 SHOP DRAWINGS

1.7.1 SUBMIT SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR THE FOLLOWING:

A. CONCRETE MIX DESIGN SUBMITTALS

B. REINFORCING STEEL

C. STRUCTURAL AND MISCELLANEOUS STEEL INCLUDING WELD INSERTS AND ANCHORS

D. STEEL ROOF DECK

E. PRE-ENGINEERED METAL BUILDING SYSTEMS AND COMPONENTS

F. PRE-ENGINEERED TENT STRUCTURES AND COMPONENTS

G. STRUCTURAL GRATING

1.7.3 SHOP DRAWING REVIEW NOTES

A. ENGINEER OF RECORD SHALL REVIEW SHOP DRAWINGS FOR GENERAL CONFORMANCE WITH THE PROJECT CONSTRUCTION DOCUMENTS (PLANS AND SPECIFICATIONS).

B. ENGINEER OF RECORD REVIEW OF SHOP DRAWINGS SHALL NOT RELIEVE THE GENERAL CONTRACTOR OF THEIR RESPONSIBILITY FOR REVIEW OF THE SHOP DRAWINGS FOR COMPLIANCE WITH THE PROJECT REQUIREMENTS.

C. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER OF RECORD SHALL NOT BE CONSIDERED AS A GUARANTEE BY THE ENGINEER THAT THE SHOP DRAWINGS COMPLY WITH ALL PROJECT REQUIREMENTS.

D. CONCURRENT SHOP DRAWING REVIEW SHALL ONLY BE PERMITTED IF APPROVED BY THE ARCHITECT/ENGINEER OF RECORD PRIOR TO THE START OF SHOP DRAWING REVIEW.

1.8 MISCELLANEOUS

1.8.1 VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD.

1.8.2 VERIFY SIZE AND LOCATION OF ALL OPENINGS IN THE FLOORS, ROOF AND WALLS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.

1.8.3 CONSTRUCTION DETAILS NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL FOLLOW SIMILAR DETAILS OF SECTIONS OF THIS PROJECT AS APPROVED BY THE ARCHITECT/ ENGINEER.

1.8.4 SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR DIMENSIONS AND LOCATIONS OF OPENINGS NOT DIMENSIONED OR SHOWN ON STRUCTURAL PLANS.

1.8.5 SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND WEIGHTS OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT INCLUDING HOUSEKEEPING PADS

1.8.6 FOR PIPES, CONDUITS, DUCTS AND MECHANICAL EQUIPMENT SUPPORTED OR BRACED FROM STRUCTURE: CONFORM TO SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC., PUBLICATION "APPENDIX E: SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS." ALL BRACING AND SUPPORTS SHALL BE DESIGNED FOR SEISMIC HAZARD LEVEL (SHL) B. SPRINKLER LINE ATTACHMENTS SHALL CONFORM TO NFPA PAMPHLET 13.

1.8.7 THE STRUCTURE HAS BEEN DESIGNED TO RESIST CODE REQUIRED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS RESPONSIBILITY INCLUDES BUT IS NOT LIMITED TO JOB SITE SAFETY: ERECTION MEANS, METHODS, AND SEQUENCES; TEMPORARY SHORING, FORMWORK, AND BRACING; USE OF EQUIPMENT AND CONSTRUCTION PROCEDURES.

2. SITE PREPARATION/SOIL REMEDIATION

2.1 SOIL DATA

ALLOWABLE SOIL PRESSURE 3,500 PSF. ALLOW 33-1/3% INCREASE FOR LOADS FROM WIND OR SEISMIC ORIGIN. SEE GEOTECHNICAL ENGINEERING REPORT BY LANDAU ASSOCIATES DATED AUGUST 23, 2013. SEE GEOTECH REPORT FOR ALL SUBGRADE PREPARATION REQUIREMENTS AS WELL AS CAPILLARY BREAK AND VAPOR BARRIER RECOMMENDATIONS. BUILDING FOUNDATION AND INTERIOR SLABS ON GRADE SHALL REQUIRE OVEREXCAVATION AND BACKFILL W/ COMPACTED STRUCTURAL FILL IN ACCORDANCE W/ THE GEOTECHNICAL ENGINEERING REPORT. FOR BIDDING PURPOSES, THE CONTRACTOR SHALL ASSUME OVEREXCAVATION AND BACKFILL W/ COMPACTED STRUCTURAL FILL SHALL BE REQUIRED TO A DEPTH OF 2'-6" BELOW FINISH FLOOR ELEVATION

2.2 EXCAVATION

EXCAVATE TO DEPTH SHOWN AND TO FIRM UNDISTURBED MATERIAL. OVER-EXCAVATIONS SHALL BE BACKFILLED WITH LEAN CONCRETE (f'/c=500-1200 PSI) OR STRUCTURAL FILL AT THE CONTRACTOR'S EXPENSE. EXERCISE EXTREME CARE DURING EXCAVATION TO AVOID DAMAGE TO BURIED LINES, TANKS, AND OTHER CONCEALED ITEMS. UPON DISCOVERY, DO NOT PROCEED WITH WORK UNTIL RECEIVING WRITTEN INSTRUCTIONS FROM THE ARCHITECT. A COMPETENT REPRESENTATIVE OF THE OWNER SHALL INSPECT ALL FOOTING EXCAVATIONS FOR SUITABILITY OF BEARING SURFACES PRIOR TO PLACEMENT OF REINFORCING STEEL. PROVIDE DRAINAGE AS NECESSARY TO AVOID WATER-SOFTENED SUBGRADE.

2.3 FILL, BACKFILL AND COMPACTION

BACKFILL AGAINST WALLS SHALL NOT BE PLACED UNTIL AFTER THE REMOVAL OF ALL MATERIAL SUBJECT TO ROT OR CORROSION. ALL FILL PLACED AGAINST RETAINING WALLS OR BASEMENT WALLS SHALL BE FREE DRAINING GRANULAR MATERIAL. STRUCTURAL FILL OTHER THAN PEA GRAVEL SHALL BE GRANULAR AND COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 (MOD PROCTOR). PEA GRAVEL FILL SHALL HAVE A MAXIMUM PARTICLE SIZE OF 3/8" DIAMETER.

3. STRUCTURAL CONCRETE

3.1 GENERAL

ALL CONCRETE SHALL BE HARD ROCK CONCRETE MEETING THE REQUIREMENTS OF ACI-301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS." PROPORTIONING OF INGREDIENTS FOR EACH CONCRETE MIX SHALL BE BY METHOD 2 OR THE ALTERNATE PROCEDURE GIVEN IN ACI-301. PLACE CONCRETE PER ACI-304 AND CONFORM TO ACI-604 (306) FOR WINTER CONCRETING AND ACI-605 (305) FOR HOT WEATHER CONCRETING. USE INTERIOR MECHANICAL VIBRATORS WITH 7,000 RPM MINIMUM FREQUENCY. DO NOT OVER-VIBRATE. CONCRETE SHALL BE PLACED MONOLITHICALLY BETWEEN CONSTRUCTION OR CONTROL JOINTS. PROTECT ALL CONCRETE FROM PREMATURE DRYING, EXCESSIVE HOT OR COLD TEMPERATURE FOR SEVEN DAYS AFTER PLACING.

3.2 STRENGTH

TWENTY-EIGHT DAY COMPRESSIVE STRENGTHS SHALL BE AS FOLLOWS:

SLABS ON GRADE	4000 PSI
FOOTINGS	3000 PSI
VERTICALLY FORMED WALLS	4000 PSI

CONCRETE SUPPLIER TO PROVIDE TEST RECORDS PER SECTION 5.3 OF ACI 318. WHEN NO PRIOR EXPERIENCE OR TRIAL MIXTURE DATA ARE AVAILABLE, THE WATER/CEMENT RATIO FROM THE TABLE BELOW MAY BE USED, BUT ONLY WHEN SPECIAL PERMISSION IS GIVEN BY ENGINEER.

MAXIMUM ABSOLUTE WATER-CEMENT RATIO BY WEIGHT FOR CONCRETE MIXES WITHOUT TEST RECORDS SHALL BE AS FOLLOWS:

3. STRUCTURAL CONCRETE

SPECIFIED COMPRESSIVE STRENGTH	NON-AIR ENTRAINED CONCRETE	AIR-ENTRAINED CONCRETE
2500 PSI	0.67	0.54
3000 PSI	0.58	0.46
3500 PSI	0.51	0.40
4000 PSI	0.44	0.35

3.3 MATERIALS

3.3.1 CEMENT: ASTM C150, TYPE I OR TYPE II. ENGINEER'S APPROVAL IS NEEDED FOR USE OF TYPE III CEMENT.

3.3.2 COARSE AND FINE AGGREGATE: ASTM C33.

3.3.3 WATER SHALL BE CLEAN AND POTABLE.

3.3.4 FLYASH: ASTM C618 CLASS C (CLASS F SHALL BE ALLOWED IF PERMITTED BY THE STRUCTURAL ENGINEER)

3.3.5 GROUND GRANULATED BLAST FURNACE SLAG (GGBFS): ASTM C989 GRADE 100 OR 120. GGBFS SHALL NOT BE PERMITTED UNLESS REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER.

3.4 ADMIXTURES

3.4.1 WATER REDUCING ADMIXTURE: ASTM C494. ADMIXTURES SHALL BE USED IN EXACT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

3.4.2 WATER REDUCING ADMIXTURES SHALL BE USED AT ALL HEAVILY CONGESTED AREAS (I.E. CONCRETE BEAMS, COLUMNS AND WALLS WITH REINFORCING SPACING OF 4" OR LESS)

3.4.3 CONCRETE USING ADMIXTURES TO PRODUCE FLOWABLE CONCRETE MAY BE USED SUBJECT TO ENGINEER'S APPROVAL.

3.4.4 AIR ENTRAINMENT: ASTM C260 AND ASTM C494 ENTRAIN 5% PLUS/MINUS 1.5% BY VOLUME IN ALL CONCRETE EXPOSED TO WEATHER.

3.4.5 NO OTHER ADMIXTURES PERMITTED UNLESS APPROVED BY THE ENGINEER.

3.10 FORMWORK AND SHORING

3.10.1 FOLLOW RECOMMENDED PRACTICE FOR CONCRETE FORMWORK (ACI-347).

3.10.2 RESHORING FOR EARLY REMOVAL OF ORIGINAL SUPPORTS WILL NOT BE PERMITTED.

3.10.4 ALL SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FORMWORK SUPPORTS AND SHORING SHALL BE DESIGNED TO PROVIDE FINISHED CONCRETE SURFACES AT ALL FACES LEVEL, PLUMB AND TRUE TO THE DIMENSIONS AND ELEVATIONS SHOWN. TOLERANCES AND VARIATIONS SHALL BE AS SPECIFIED.

3.11 REINFORCING STEEL:

3.11.1 DETAIL, FABRICATE, AND PLACE PER ACI-315 AND ACI-318. SUPPORT REINFORCEMENT WITH APPROVED CHAIRS, SPACERS, OR TIES.

3.11.2 DEFORMED BAR REINFORCEMENT: ASTM A615 GR 60

3.11.3 WELDABLE DEFORMED BAR REINFORCEMENT: ASTM A706 GR 60 WHERE NOTED ON STRUCTURAL DRAWINGS

3.11.5 WELDED WIRE FABRIC: ASTM A-185 & ASTM A-82 Fy=65 KSI

3.11.8 EXCEPT AS NOTED SPECIFICALLY ON THE DRAWINGS, ALL CONCRETE REINFORCEMENT SHALL BE LAP-SPLICED AS FOLLOWS:

#6 AND SMALLER 48 X BAR DIAMETER
#7 AND LARGER 56 X BAR DIAMETER

NO MORE THAN 50% HORIZONTAL OR VERTICAL BARS SHALL BE SPLICED AT ONE LOCATION

3.11.10 EXCEPT AS NOTED SPECIFICALLY ON THE DRAWINGS, PROVIDE CORNER BARS TO MATCH QUANTITY AND DIAMETER OF HORIZONTAL REINFORCEMENT AND LAP WITH HORIZONTAL REINFORCEMENT AS FOLLOWS:

#6 AND SMALLER 48 X BAR DIAMETER
#7 AND LARGER 56 X BAR DIAMETER

THESE CORNER BARS SHALL BE PLACED AT ALL CORNERS AND INTERSECTIONS IN CONCRETE FOOTINGS AND WALLS.

3.11.12 LAP WELDED WIRE FABRIC 12" OR ONE SPACING PLUS 2", WHICHEVER IS MORE.

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3. STRUCTURAL CONCRETE .

3.12 CONCRETE COVER ON REINFORCING SHALL BE AS FOLLOWS (UNLESS SHOWN OTHERWISE):

BOTTOM OF FOOTINGS	3"
FORMED EARTH FACE AND SLAB ON GRADE	2"
WALLS, WEATHER FACE	1-1/2"
WALLS, INSIDE FACE	1"

3.13 CONSTRUCTION AND CONTROL JOINTS

3.13.1 UNLESS NOTED OTHERWISE, LOCATION OF THE CONSTRUCTION OR CONTROL JOINTS IN SLAB ON GRADE SHALL BE ON COLUMN GRIDS OR UNDER PERMANENT PARTITIONS AND SHALL NOT EXCEED 20'-0" C/C EACH WAY AT 4" SLABS, 25'-0" C/C EACH WAY AT 6" SLABS AND 28'-0" C/C EACH WAY AT 8" SLAB. SEE ARCHITECTURAL DRAWINGS FOR JOINT SPACING REQUIREMENTS AND LOCATIONS AT EXPOSED SLAB LOCATIONS. PROVIDE JOINT SEALANT PER SPECIFICATIONS - INSTALL PER MANUFACTURER RECOMMENDATIONS.

3.14 CONDUIT AND PIPING EMBEDDED IN CONCRETE

3.14.1 ELECTRICAL CONDUIT SHALL NOT BE PLACED WITHIN A SLAB ON GRADE, BUT PLACED BELOW THE SLAB IN THE SUB-BASE.

3.15 GROUT FOR BEARING PLATES

THE NON-SHRINK GROUT SHALL MEET ASTM C1107 GRADE B OR EQUIVALENT (MASTERFLOW 928 BY BASF OR APPROVED EQUIVALENT). GROUT SHALL BE A PRE-PACKAGED HYDRAULIC CEMENT BASED MINERAL AGGREGATE GROUT, MIXED, PLACED AND CURED AS RECOMMENDED BY THE MANUFACTURER. COMPRESSIVE STRENGTH SHALL EXCEED 6000 PSI AT 28 DAYS.

3.20 ADHESIVE EXPANSIVE WATERSTOPS

ADHESIVE EXPANSIVE WATERSTOP SHALL BE VOLCLAY WATERSTOP-RX (AS MANUFACTURED BY CETCO), SWELLSTOP OR HYDROTIGHT (GREENSTREAK), OR APPROVED EQUIVALENT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

5. METALS

5.1 STRUCTURAL STEEL

5.1.1 ALL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE AISC, "MANUAL OF STEEL CONSTRUCTION," LATEST EDITION EXCEPT AS AMENDED BY SECTION 1.1 OF THESE STRUCTURAL NOTES.

5.1.2 STEEL W SHAPES SHALL BE ASTM A992 Fy=50 KSI. OTHER SHAPES AND PLATES SHALL BE ASTM A36 Fy=36 KSI.

5.1.3 STEEL PIPE SECTIONS (PIPE) SHALL BE ASTM A53 TYPE E OR S, GRADE B, Fy=35 KSI.

5.1.4 RECTANGULAR AND ROUND HOLLOW STEEL SECTIONS (HSS) OR TUBE STEEL SECTIONS (TS) SHALL BE ASTM A500, GRADE B, Fy=46 KSI (Fy=42 KSI FOR ROUND SECTIONS)

5.1.5 MACHINE BOLTS.

A. MACHINE BOLTS NOT SPECIFIED AS HIGH STRENGTH SHALL BE ASTM A-307.

B. HIGH STRENGTH BOLTS SHALL BE ASTM A-325 AND ASTM A-490 AS INDICATED ON STRUCTURAL DRAWINGS. ALL BOLTS SHALL BE CONSIDERED BEARING TYPE WITH THREADS INCLUDED IN SHEAR PLANE (CONNECTION TYPE N) UNLESS NOTED OTHERWISE. ALL HIGH STRENGTH BOLTED CONNECTIONS SHALL BE INSTALLED WITH NUTS CONFORMING TO ASTM A563 AND HARDENED WASHERS CONFORMING TO ASTM F436.

C. FULLY PRE-TENSIONED AND SLIP CRITICAL CONNECTIONS SHALL BE AT LOCATIONS NOTED ON THE STRUCTURAL DRAWINGS.

D. AT FULLY PRE-TENSIONED AND SLIP CRITICAL CONNECTIONS WASHER TYPE INDICATING DEVICES (ASTM F959) OR TWIST-OFF TYPE TENSION-CONTROL BOLT ASSEMBLIES (ASTM F1852) SHALL BE USED UNLESS ALTERNATE SYSTEMS ARE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER.

E. ALL HIGH STRENGTH BOLTS SHALL BE INSTALLED PER THE SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A-325 OR A-490 BOLTS (LATEST EDITION) BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (WWW.BOLTCOUNCIL.ORG).

5.1.6 STEEL ANCHORAGE ELEMENTS

A. THREADED RODS SHALL BE ALL-THREAD. (Fy=36 KSI) U.N.O.

B. STUDS:"NELSON STUDS" SHALL BE BY NELSON STUD WELDING, INC. OR APPROVED EQUIVALENT COMPLYING WITH ASTM A108. STUDS SHALL HAVE A MINIMUM Fu OF 65 KSI.

D EXPANSION ANCHORS IN CONCRETE SHALL BE CARBON STEEL ANCHORS EITHER HILTI KWIK BOLT TZ (ICC ESR-1917), SIMPSON STRONG-BOLT (ICC ESR-1771), POWERS POWER-STUD+ SD2 (ICC ESR-2502), OR APPROVED EQUIVALENT WITH A CURRENT ICC REPORT THAT COMPLIES WITH THE CURRENT EDITION OF THE IBC RATED FOR USE IN CRACKED CONCRETE AND SUITABLE TO RESIST WIND AND SEISMIC FORCES IN THE SEISMIC DESIGN CATEGORY NOTED IN SECTION 1.5.

G ADHESIVE (EPOXY) ANCHORS IN CONCRETE SHALL BE THREADED ANCHOR RODS OR REBAR DOWELS USING AN INJECTABLE TWO-COMPONENT EPOXY ADHESIVE EITHER HILTI HIT-HY- 200 (ICC ESR-3187), SIMPSON AT-XP (IAPMO UES ER-263), OR APPROVED EQUIVALENT WITH A CURRENT ICC REPORT THAT COMPLIES WITH THE CURRENT EDITION OF THE IBC RATED FOR USE IN CRACKED CONCRETE AND SUITABLE TO RESIST WIND AND SEISMIC FORCES IN THE SEISMIC DESIGN CATEGORY NOTED IN SECTION 1.5.

I. ANCHOR RODS: ANCHOR RODS SHALL BE ASTM F 1554, Fy=36 KSI WITH HOOKED END AT STUD WALL CONNECTIONS UNLESS NOTED OTHERWISE. AT COLUMN LOCATIONS ANCHOR RODS SHALL BE ASTM F1554, Fy=36 KSI WITH HEADED OR THREADED/NUTTED END. TACK WELD NUT TO ANCHOR ROD UNLESS NOTED OTHERWISE. WHERE NOTED, HIGH STRENGTH ANCHOR RODS SHALL BE ASTM F1554, Fy=105 KSI WITH DOUBLE NUTTED PLATE WASHER.

J. POWDER ACTUATED FASTENERS: P.D.F.'S SHALL BE A MINIMUM 0.145" DIA HILTI X-EDNI OR 0.157" DIA HILTI X-U UNIVERSAL KNURLED SHANK FASTENER UNLESS NOTED OTHERWISE. FASTENERS DRIVEN INTO STEEL SHALL BE DRIVEN SO THAT THE POINT OF THE FASTENER COMPLETELY PENETRATES THE STEEL BASE MATERIAL.

5.1.8 METAL PROTECTION: ALL STEEL EXPOSED TO WEATHER, MOISTURE, SOIL, OR AS NOTED SHALL BE GALVANIZED PER ASTM A-123 OR A153 AS APPLICABLE. ALL OTHER STEEL SURFACES SHALL BE SHOP PRIMED AFTER FABRICATION.

5. METALS

REPAIR ALL DAMAGED AREAS OF GALVANIZED PARTS SUCH AS FIELD WELDS, ETC. APPLY REPAIR COATING THICKNESS GREATER THAN OR EQUAL TO ORIGINAL ZINC COATING THICKNESS.

5.1.9 STEEL COLUMNS: ALL VERTICAL LOAD CARRYING MEMBERS HAVE BEEN NOTED AS "COLUMNS" ON THE STRUCTURAL DRAWINGS. THIS NOTATION DOES NOT IDENTIFY THESE MEMBERS AS "POSTS" OR "COLUMNS" AS DEFINED BY THE LATEST OSHA RULES REGARDING COLUMN ANCHORAGE REQUIREMENTS (OSHA 29 CFR PARTS 1926.751 AND 1926.755). THE GENERAL CONTRACTOR, STEEL DETAILER, AND STEEL ERECTOR SHALL BE RESPONSIBLE TO DETERMINE THE CORRECT OSHA DESIGNATION OF EACH MEMBER REGARDLESS OF THE NOTATION SHOWN ON THE STRUCTURAL DRAWINGS.

5.1.10 WELDED MARK NUMBERS ON STRUCTURAL STEEL MEMBERS EXPOSED TO VIEW ARE UNACCEPTABLE, AND SHALL NOT BE PERMITTED. ANY WELDED MARKS SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE. SEE ARCH SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

5.2 WELDING

5.2.1 ALL WELDING SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE," AWS D1.1, AWS D1.4 AND AWS D1.8 AS APPROPRIATE.

5.2.2 ALL WELDING SHALL BE BY CERTIFIED WELDERS; USE 70 KSI LOW HYDROGEN FILLER METAL, AND SHALL BE PROTECTED PER AWS D1.1 UNTIL USE. FOR ALL FULL PENETRATION WELDS, FILLER METAL SHALL BE NOTCH TOUGH TO MEET CHARPY V-NOTCH OF 20 FOOT-POUND AT -20°F.

5.2.3 NO WELDING OF REINFORCING STEEL SHALL BE ALLOWED EXCEPT WHERE SHOWN. ALL WELDING OF REINFORCEMENT SHALL BE PER ANSI/AWS D1.4. THE FOLLOWING FILLER METAL SHALL BE USED WHEN WELDING REINFORCEMENT:

A. FOR WELDING OF ASTM A706 GR 60 REBAR, 80 KSI FILLER METAL.

B. FOR WELDING OF ASTM A615 GR 60 REBAR, NOT PERMITTED.

C. FOR WELDING OF ASTM A615 GR 40 REBAR, NOT PERMITTED.

5.2.4 ALL FULL PENETRATION FIELD AND SHOP WELDS SHALL BE FULL TIME INSPECTED AND TESTED BY NON-DESTRUCTIVE PROCEDURES. RESULTS OF TESTS SHALL BE SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER.

5.3 WELDING PROCEDURE SPECIFICATION (WPS)

5.3.1 FOR ALL WELDING OF REINFORCING STEEL, NON PREQUALIFIED WELDS AND ALL WELDING OF COMPONENTS WHICH ARE PART 'PAOF THE SEISMIC FORCE RESISTING SYSTEM, CONTRACTOR SHALL SUBMIT A WELDING PROCEDURE SPECIFICATION (WPS) TO ENGINEER FOR APPROVAL. PRIOR TO WELDING, EACH WPS SHALL INCLUDE ALL NECESSARY INFORMATION REQUIRED BY AWS D1.1, AWS D1.4 AND AWS D1.8 AND AS FOLLOWS:

A. APPLICABLE BASE METAL TYPES AND THICKNESSES.

B. SKETCH OF JOINT INDICATING APPLICABLE DIMENSIONS. INDIVIDUAL PASSES SHALL BE IDENTIFIED AND NUMBERED TO IDENTIFY THE SEQUENCE. THE SKETCH SHALL IDENTIFY THE MAXIMUM THICKNESS AND BEAD WIDTH. IN NO CASE SHALL THE LAYER THICKNESS EXCEED 1/4" NOR THE BEAD WIDTH EXCEED 5/8."

C. PREHEAT REQUIREMENTS.

D. ELECTRICAL CHARACTERISTICS (I.E., CURRENT, VOLTAGE, TRAVEL SPEED, ETC.).

E. ELECTRODE REQUIREMENTS SHALL MEET THE REQUIREMENTS OF AWS A5.1, AWS A5.5, AWS A5.17, AWS A5.23, AWS A5.18, AWS A5.20, AWS A5.28, AND AWS A5.29, AS APPLICABLE FOR WELDING METHOD USED.

5.4 STEEL STUDS

5.4.1 ALL STUD AND/OR JOIST FRAMING MEMBERS SHALL BE OF THE TYPE, SIZE AND GAGE AS SHOWN AND SHALL BE MANUFACTURED BY A CURRENT MEMBER OF THE STEEL STUD MANUFACTURERS ASSOCIATION.

5.4.2 ALL STRUCTURAL STEEL STUDS AND JOISTS HAVE BEEN SPECIFIED PER THE GUIDELINES GIVEN IN THE STEEL STUD MANUFACTURER'S ASSOCIATION ICC ER-3064P. THE IDENTIFICATION CODE IDENTIFIES THE MEMBER DEPTH (IN MILS), SECTION TYPE, FLANGE WIDTH (IN MILS), AND MATERIAL THICKNESS (IN MILS). THE ICC REPORT IS AVAILABLE AT WWW.SSMA.COM.

FOR EXAMPLE, 600 S 125 - 54 [50]:

600 REFERS TO MEMBER DEPTH (600 X 1/100 = 6")

S REFERS TO SECTION TYPE (S=STUD, T= TRACK)

125 REFERS TO FLANGE WIDTH (125 X 1/100 = 1.25")

54 REFERS TO MEMBER THICKNESS (54 MILS OR 16 Ga)

50 REFERS TO YEILD STRENGTH (KSI) IF OTHER THAN NOTED BELOW

5.4.3 ALL STUDS AND/OR JOISTS, 12, 13, 14 AND 16 GAGE, SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF THE LATEST EDITION OF THE AISI (AMERICAN IRON AND STEEL INSTITUTE) STANDARDS WITH A MINIMUM YIELD STRENGTH OF 50 KSI.

5.4.4 ALL 18 AND 20 GAGE STUDS AND/OR JOISTS, AND ALL TRACK, BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF THE LATEST EDITION OF THE AISI (AMERICAN IRON AND STEEL INSTITUTE) STANDARDS WITH A MINIMUM YIELD STRENGTH OF 33 KSI.

5.4.5 ALL STUDS, JOISTS AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A G-60 GALVANIZED COATING IN ACCORDANCE WITH ASTM A-525.

5.4.6 ALL FRAMING COMPONENTS SHALL BE CUT FOR A TIGHT FIT AGAINST ABUTTING MEMBERS, UNLESS SHOWN OTHERWISE. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTENED.

5.4.7 AXIALLY LOADED STUDS SHALL BE INSTALLED IN A MANNER WHICH WILL ASSURE THAT ENDS OF THE STUDS ARE POSITIONED AGAINST THE INSIDE TRACK WEB, PRIOR TO STUD AND TRACK ATTACHMENT.

5.4.8 NON-AXIALLY LOADED WALL STUDS SUCH AS INTERIOR PARTITION WALLS AND EXTERIOR INFILL WALLS SHALL HAVE VERTICAL DEFORMATION CAPABILITY BETWEEN WALL AND ROOF/FLOOR STRUCTURE UNLESS SHOWN OTHERWISE.

5.6 STEEL DECKING

5. METALS

5.6.1 ALL STEEL DECKING SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO ASTM A-653, FY = 38 KSI, AS A MINIMUM. THE GALVANIZED COATING SHALL CONFORM TO ASTM A-653, G-60 OR G-90 SPECIFICATIONS AS APPLICABLE.

5.6.2 ALL STEEL DECKING SHALL BE PLACED ON SUPPORTING FRAMEWORK WITH A MINIMUM END LAP OF TWO INCHES CENTERED OVER SUPPORTS. THE DECK SHALL BE ATTACHED TO SUPPORTS AND FASTENED AT SIDE LAPS PER THE DIAPHRAGM SCHEDULE.

5.6.3 DECKING SHALL BE AS MANUFACTURED BY ASC PROFILES, INC. OR EQUIVALENT. ALTERNATE MANUFACTURERS SHALL BE PERMITTED PROVIDED THE DECK MEETS OR EXCEEDS THE SECTION PROPERTIES OF THE SPECIFIED DECK AND THE ALLOWABLE SHEAR CAPACITY SPECIFIED IN THE DECK ATTACHMENT SCHEDULE.

5.6.5 CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ANY SPECIAL REQUIREMENTS.

5.6.6 CONTRACTOR SHALL INSTALL DECKING AS REQUIRED TO PREVENT MARRING/DAMAGING DECKING AT LOCATIONS EXPOSED TO VIEW FROM BELOW.

5. METALS .

5.7 PRE-ENGINEERED BUILDINGS

5.7.1 THE METAL BUILDING MANUFACTURER SHALL BE CURRENTLY APPROVED BY ICC (INTERNATIONAL CODE COUNCIL).

5.7.2 STEEL FRAME MANUFACTURER SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT FOR THE STRUCTURAL DESIGN AND FABRICATION OF THE COMPLETE PRE-ENGINEERED BUILDING PACKAGE INCLUDING PRIMARY FRAMING SYSTEMS, LATERAL LOAD RESISTING SYSTEMS, BRACING, SECONDARY FRAMING, ROOFING, SIDING, FLASHING AND GUTTERS.

5.7.3 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLOSE COORDINATION DURING BIDDING AND CONSTRUCTION AS THE BUILDING MANUFACTURER'S "STANDARD BUILDING PACKAGE" MAY NOT INCLUDE SOME STRUCTURAL STEEL MEMBERS REQUIRED BY THE DRAWINGS.

5.7.4 BAY SPACINGS, PLAN DIMENSIONS, COLUMN LOCATIONS, EAVE HEIGHTS AND ROOF SLOPE SHALL BE AS SHOWN ON ARCHITECTURAL/STRUCTURAL DRAWINGS.

5.7.5 PRE-ENGINEERED FRAME MEMBERS SHALL BE PROPORTIONED AS REQUIRED TO AVOID CONFLICTS WITH BUILDING CLEARANCE REQUIREMENTS AND TO AVOID CONFLICTS WITH BUILDING SKYLIGHTS, WINDOW ELEMENTS, ETC.

5.7.6 DESIGN LOADS:

A. BUILDING MANUFACTURER SHALL DESIGN ROOF FRAMING TO SUPPORT A MINIMUM 5 PSF COLLATERAL DEAD LOAD AT ALL ROOFS UNLESS NOTED OTHERWISE. AT ROOFS SUPPORTING DROP OR HARD CEILINGS, BUILDING MANUFACTURER SHALL DESIGN ROOF FRAMING TO SUPPORT A COLLATERAL DEAD LOAD OF 10 PSF.

B. SEE SECTION 1.5 FOR ADDITIONAL LOADING REQUIREMENTS

5.7.7 DOCUMENTS

A. THE MANUFACTURER SHALL FURNISH COMPLETE DESIGN DRAWINGS (CAN BE SHOP AND ERECTION DRAWINGS), SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT.

B. THE MANUFACTURER SHALL (PRIOR TO THE CONCRETE FOUNDATION WORK) FURNISH ALL ANCHOR BOLT SIZES AND PLACEMENT PLANS FOR APPROVAL.

C. THE MANUFACTURER SHALL FURNISH DESIGN CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT.

D. IT SHALL BE THE RESPONSIBILITY OF THE BUILDING MANUFACTURER TO PROVIDE ALL ADDITIONAL CLIPS, ANCHORS, FRAMING MEMBERS ETC. AS REQUIRED TO INTEGRATE HIS STANDARD BUILDING COMPONENTS WITH WORK BY OTHERS. SEE ALSO SHOP DRAWINGS REQUIREMENTS.

5.7.8 PRE-ENGINEERED BUILDING MATERIALS

A. ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS," LATEST EDITIONS.

B. ALL COLD-FORMED STRUCTURAL MEMBERS AND EXTERIOR COVERINGS SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISI, "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."

C. STEEL RIGID FRAMES AND OTHER BUILT-UP PRIMARY FRAMING SHALL BE FABRICATED FROM HOT ROLLED STEEL PLATE PER ASTM A-572 (MINIMUM YIELD STRENGTH 50,000 PSI).

D. LIGHT GAUGE Z AND C PURLINS, GIRTS AND SECONDARY FRAMING SHALL BE COLD FORMED UTILIZING HOT ROLLED STEEL COIL MEETING ASTM A-570 (MINIMUM YIELD STRENGTH 55,000 PSI).

E. STEEL ROOF AND WALL SHEETING (SEE SPECIFICATIONS) SHALL BE COLD FORMED FROM HIGH STRENGTH (50 KSI) STEEL SHEETING TO MEET THE CHEMICAL REQUIREMENTS OF ASTM A-446 GRADE D AND GALVANIZED WITH 1.25 OZ COMMERCIAL GRADE COATING MEETING THE BEND, COATING AND TOLERANCE REQUIREMENTS OF ASTM A-525.

F. FOUNDATION ANCHOR BOLTS AND TENSION RODS USED FOR WALL AND ROOF BRACING SHALL BE FABRICATED FROM A36 MATERIAL AS A MINIMUM EXCEPT AS NOTED. MACHINE BOLTS AND HIGH STRENGTH BOLTS SHALL BE AS INDICATED IN SECTION 5.1.5.

5.8 PRE-ENGINEERED TENT STRUCTURES

5.8.1 TENT MANUFACTURER SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT FOR THE STRUCTURAL DESIGN AND FABRICATION OF THE COMPLETE PRE-ENGINEERED BUILDING PACKAGE INCLUDING PRIMARY FRAMING SYSTEMS, LATERAL LOAD RESISTING SYSTEMS, BRACING, SECONDARY FRAMING, TENT FABRIC, FLASHING AND GUTTERS.

5.8.2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLOSE COORDINATION DURING BIDDING AND CONSTRUCTION AS THE TENT MANUFACTURER'S "STANDARD BUILDING PACKAGE" MAY NOT INCLUDE SOME STRUCTURAL STEEL MEMBERS REQUIRED BY THE DRAWINGS.

5.8.3 BAY SPACINGS, PLAN DIMENSIONS, COLUMN LOCATIONS, EAVE HEIGHTS AND ROOF SLOPE SHALL BE AS SHOWN ON ARCHITECTURAL/STRUCTURAL DRAWINGS.

5. METALS .

5.8.4 PRE-ENGINEERED FRAME MEMBERS SHALL BE PROPORTIONED AS REQUIRED TO AVOID CONFLICTS WITH BUILDING CLEARANCE REQUIREMENTS AND TO AVOID CONFLICTS WITH WINDOW ELEMENTS, ETC.

5.8.5 DESIGN LOADS:

A. AT FABRIC TENT STRUCTURE (BUILDING C) DESIGN TENT FRAMES FOR ADD1.25 PLF COLLATERAL DEAD LOAD FOR FULL LENGTH OF FRAMES. IN ADDITION TO THIS LOAD, THE TENT MFR SHALL COORDINATE LIGHTING LOADS AND LOCATIONS

B. SEE SECTION 1.5 FOR ADDITIONAL LOADING REQUIREMENTS

5.8.6 DOCUMENTS

A. THE MANUFACTURER SHALL FURNISH COMPLETE DESIGN DRAWINGS (CAN BE SHOP AND ERECTION DRAWINGS), SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT.

B. THE MANUFACTURER SHALL (PRIOR TO THE CONCRETE FOUNDATION WORK) FURNISH ALL ANCHOR BOLT SIZES AND PLACEMENT PLANS FOR APPROVAL.

C. THE MANUFACTURER SHALL FURNISH DESIGN CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT.

D. IT SHALL BE THE RESPONSIBILITY OF THE TENT MANUFACTURER TO PROVIDE ALL ADDITIONAL CLIPS, ANCHORS, FRAMING MEMBERS ETC. AS REQUIRED TO INTEGRATE HIS STANDARD BUILDING COMPONENTS WITH WORK BY OTHERS. SEE ALSO SHOP DRAWINGS REQUIREMENTS.

5.8.7 PRE-ENGINEERED TENT MATERIALS

A. ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS," LATEST EDITIONS.

B. FOUNDATION ANCHOR BOLTS AND TENSION RODS USED FOR WALL AND ROOF BRACING SHALL BE FABRICATED FROM A36 MATERIAL AS A MINIMUM EXCEPT AS NOTED. MACHINE BOLTS AND HIGH STRENGTH BOLTS SHALL BE AS INDICATED IN SECTION 5.1.5.

6. CARPENTRY

FRAMING LUMBER SHALL BE DOUGLAS FIR/LARCH #2 U.N.O. SAWN LUMBER BEAMS AND HEADERS SHALL BE DF #2 OR AS SHOWN ON THE DRAWINGS. ALL 2" NOMINAL LUMBER SHALL BE KILN DRIED (KD). EACH PIECE OF LUMBER SHALL BEAR STAMP OF WEST COAST LUMBER INSPECTION BUREAU (WCLIB) AND/OR WESTERN WOOD PRODUCTS ASSOCIATION (WWPA) SHOWING GRADE MARK. PROVIDE CUT WASHERS OR M.I.W. WHERE BOLT HEADS, NUTS AND LAG SCREWS BEAR ON WOOD. TREAT ALL WOOD IN CONTACT WITH CONCRETE, MORTAR, GROUT, MASONRY, AND WITHIN 12" OF EARTH; ALL WOOD OVER WATER; AND ALL WOOD IN CONTACT WITH EARTH; IN ACCORDANCE WITH AWPA SPECIFICATIONS FOR THE PRESSURE TREATMENT OF WESTERN WOODS, LATEST EDITION. WHERE POSSIBLE, PRE-CUT MATERIAL BEFORE TREATMENT. ALL FIELD CUTS AND DRILLED HOLES SHALL BE FIELD TREATED IN ACCORDANCE WITH AWPA M-4.

6.1 CARPENTRY HARDWARE

6.1.1 MACHINE BOLTS SHALL BE ASTM A-307.

6.1.2 WASHERS SHALL BE MALLEABLE IRON WASHERS (MIW) OR HEAVY PLATE CUT WASHERS.

6.1.3 NAILS SHALL BE COMMON, AMERICAN OR CANADIAN MANUFACTURER ONLY WITH MIN. DIAMETERS AS FOLLOWS:

NAIL NAME	MINIMUM NAIL SHANK DIAMETER	MINIMUM NAIL LENGTH
8d	0.131"	2 1/2"
10d	0.148"	3"
12d	0.148"	3 1/4"
16d SINKER	0.148"	3 1/4"
16d	0.162"	3 1/2"
20d	0.192"	4"

6.1.5 ANCHORS AND CONNECTIONS SHALL BE SIMPSON, USP, OR ICC (INTERNATIONAL CODE COUNCIL) APPROVED. ALL FASTENERS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS UNLESS OTHERWISE SHOWN. SUBSTITUTED CONNECTIONS SHALL HAVE A TABULATED CAPACITY EQUAL TO OR GREATER THAN THE SPECIFIED CONNECTOR.

6.1.6 HARDWARE EXPOSED TO WEATHER OR IN UNHEATED PORTIONS OF BUILDING SHALL BE GALVANIZED PER SECTION 5 OF THESE NOTES.

A. HARDWARE, ANCHORS, AND FASTENERS ATTACHED TO OR IN CONTACT WITH PRESERVATIVE TREATED WOOD SHALL BE STAINLESS STEEL OR GALVANIZED, UNLESS NOTED OTHERWISE, TO A COATING THICKNESS PER THE MANUFACTURER'S RECOMMENDATIONS FOR THE TYPE OF PRESERVATIVE USED.

B. LIGHT GAGE HANGERS IN CONTACT WITH TREATED WOOD SHALL CONFORM TO A MINIMUM GALVANIZED COATING OF G185 OR APPROVED EQUIVALENT.

C. IF PRESERVATIVE USED IS ACZA (AMMONIACAL COPPER ZINC ARSENATE), STAINLESS STEEL SHALL BE REQUIRED.

D. IN THE EVENT OF A CONFLICT BETWEEN THE MANUFACTURER'S RECOMMENDATIONS AND OTHER METAL PROTECTION REQUIREMENTS CONTAINED IN THESE NOTES AND THE PROJECT SPECIFICATIONS, THE MOST STRINGENT REQUIREMENT SHALL BE USED.

6.2 MINIMUM NAILING: PER IBC TABLE 2304.9.1 FASTENING SCHEDULE.

6.4 SHEATHING (PLYWOOD/ORIENTED STRAND BOARD)

EACH SHEET SHALL BEAR THE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION; ALL SHEATHING SHALL CONFORM TO STANDARD PS 2 OR PRP-108. THICKNESS, NUMBER OF PLIES, AND LAY-UP AS SHOWN. ALL PLYWOOD SHALL BE C-D INTERIOR WITH EXTERIOR GLUE OR AS NOTED ON THE DRAWINGS AND SHALL BE GROUP I OR II SPECIES. EXCEPT AS OTHERWISE SHOWN, PROVIDE THE FOLLOWING MINIMUM FASTENING: PANEL EDGES #10 SCREWS AT 6" ON CENTER, INTERMEDIATE SUPPORTS #10 SCREWS AT 12" ON CENTER. GAP SHEETS 1/8" FOR 4'X8' SHEETS AND 1/4" FOR 8'X8' AND LARGER SHEETS. THE MOISTURE CONTENT SHALL NOT BE GREATER THAN 15% AT TIME OF INSTALLATION.

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1. STATEMENT OF TESTING AND SPECTAL INSPECTION

1705.1.1	X	X	SPECIAL CASES (SEE FOLLOWING NOTES PER EXTENT)
1705.2	X	X	STEEL CONSTRUCTION (SEE TABLES N5.4, N5.6, N6.1 & 1705.2.2)
1705.3	X	X	CONCRETE CONSTRUCTION (SEE TABLE 1705.3)
1705.4	N/R	N/R	MASONRY CONSTRUCTION (SEE TABLES 1.19.1, 1.19.2 OR 1.19.3)
1705.6	X	N/R	SOILS (SEE TABLE 1705.6)
1705.10.1	N/R	N/R	STRUCTURAL WOOD - WIND FORCE RESISTING SYSTEM
1705.10.2	N/R	N/R	COLD FORMED STEEL FRAMING - WIND FORCE RESISTING SYSTEM
1705.10.3	N/R	N/R	ROOF AND WALL CLADDING FOR WIND RESISTANCE
1705.11.1	X	X	STRUCTURAL STEEL - SEISMIC FORCE RESISTING SYSTEM
1705.11.2	N/R	N/R	STRUCTURAL WOOD - SEISMIC FORCE RESISTING SYSTEM
1705.11.3	N/R	N/R	COLD FORMED STEEL FRAMING - SEISMIC FORCE RESISTING SYSTEM
1705.11.4	X	N/R	M&E DESIGNATED SEISMIC SYSTEMS
1705.11.5	X	N/R	ARCHITECTURAL COMPONENTS (INCLUDING ACCESS FLOORS)
1705.11.6	X	N/R	MECHANICAL AND ELECTRICAL COMPONENTS
1705.11.7	X	N/R	STORAGE RACKS

= SPECIAL INSPECTION REQUIRED.
= STRUCTURAL OBSERVATION REQUIRED.
= ITEM IS REQUIRED
= ITEM IS NOT REQUIRED.

SPECIAL INSPECTIONS INDICATED ARE FOR STRUCTURAL ELEMENTS ONLY. SEE ARCH AND MECH/ELECT DWGS FOR ADD'L SPECIAL INSPECTIONS.

INSPECTION/TESTING REQUIREMENTS

SEE DRAWINGS, SPECIFICATIONS, AND IBC SECTIONS 110, AND CHAPTER 17.

INSPECTIONS BY THE BUILDING OFFICIAL (IBC SECTION 110)

FOUNDATION INSPECTION SHALL BE MADE AFTER EXCAVATIONS ARE COMPLETE AND ANY REQUIRED REINFORCING IS IN PLACE. ANY REQUIRED FORMS SHALL BE IN PLACE PRIOR TO INSPECTION.

CONCRETE SLAB OR UNDER FLOOR INSPECTION SHALL BE MADE AFTER ALL UNDER SLAB ACCESSORIES AND REINFORCEMENT ARE PLACED AND PRIOR TO CONCRETE SLAB PLACEMENT OR FLOOR SHEATHING INSTALLATION.

FRAME INSPECTIONS SHALL BE MADE AFTER ALL FRAMING IS COMPLETE AND ALL PIPES, DUCTS, ELECTRICAL, PLUMBING, ETC., ARE INSTALLED AND APPROVED PRIOR TO COVER.

IN ADDITION TO THE INSPECTION SPECIFIED ABOVE, THE BUILDING OFFICIAL IS AUTHORIZED TO MAKE OR REQUIRE OTHER INSPECTION OF ANY CONSTRUCTION WORK TO ASCERTAIN COMPLIANCE WITH THE PROVISIONS OF THE IBC.

STRUCTURAL TESTS AND SPECIAL INSPECTIONS (IBC CHAPTER 17)

SEE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

STRUCTURAL TESTS AND SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF THE IBC AS WELL AS ANY ADDITIONAL REQUIREMENTS OF THE BUILDING OFFICIAL. OMISSION FROM THE LIST BELOW OF TESTING AND INSPECTION REQUIREMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING TESTING AND INSPECTION REQUIRED BY THE SPECIFICATIONS, THE IBC AND THE BUILDING OFFICIAL.

TESTING AND SPECIAL INSPECTIONS SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF THE IBC FOR THE ITEMS LISTED IN THIS SECTION.

STRUCTURAL OBSERVATION

STRUCTURAL OBSERVATION SHALL BE PERFORMED DURING CONSTRUCTION IN A MANNER AS REQUIRED TO BECOME GENERALLY FAMILIAR WITH THE IN PLACE CONSTRUCTION.

STRUCTURAL OBSERVATION EXTENT SHALL BE AS INDICATED ABOVE. TIMING AND DURATION OF OBSERVATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR DURING CONSTRUCTION.

CONSTRUCTION OBSERVATION REPORTS AND FINDINGS SHALL NOT BE VIEWED AS A WARRANTY OR GUARANTEE BY THE STRUCTURAL ENGINEER.

SPECIAL INSPECTOR: SHALL BE CURRENTLY WABO CERTIFIED AND UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER.

THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.

THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, ENGINEER OF RECORD, ARCHITECT OF RECORD, AND OTHER DESIGNATED PERSONS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR FOR CORRECTION. THEN, IF NOT IN CONFORMANCE, TO THE PROPER DESIGN AUTHORITY AND BUILDING OFFICIAL.

THE SPECIAL INSPECTOR SHALL SUBMIT A SEALED FINAL REPORT BY A REGISTERED PROFESSIONAL ENGINEER STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISION OF THE IBC.

2A. REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
IBC TABLE 1705.6		
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	N/R	X
2. VERIFY EXCAVATIONS ARE EXTEND TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	N/R	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIAL	N/R	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	N/R
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	N/R	X

2.1 SPECIAL INSPECTIONS FOR EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT, AND LOAD-BEARING REQUIREMENTS PER IBC 1705.6.

2.1.1 THE APPROVED GEOTECHNICAL REPORT AND THE CONSTRUCTION DOCUMENTS PREPARED BY THE REGISTERED DESIGN PROFESSIONALS SHALL BE USED TO DETERMINE COMPLIANCE.

3. REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

		VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
		IBC TABLE 1705.3				
1		INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT	N/R	X	ACI 318: 3.5, 7.1-7.7	1910.4
2		INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 2B	N/R	N/R	AWS D1.4 ACI 318: 3.5.2	
3		INSPECTION OF ANCHORS CAST IN CONCRETE	N/R	X	ACI 318: D.9.2	
4		INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS				
	A	ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X	N/R	ACI 318: D.9.2.4	
	B	MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4A	N/R	X	ACI 318: D.9.2	
5		VERIFYING THE USE OF REQUIRED DESIGN MIX	N/R	X	ACI 318: CH. 4, 5.2-5.4	1904.2, 1910.2, 1910.3
6		AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	N/R	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1910.10
7		INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	N/R	ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8
8		INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	N/R	X	ACI 318: 5.11-5.13	1910.9
9		INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	N/R	X	ACI 318: 6.1.1	

3.1 CONCRETE: SPECIAL INSPECTION AND TESTING PER IBC TABLE 1705.3 INCLUDING:

3.1.2 CONTINUOUS SPECIAL INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.

3.1.3 CONTINUOUS SPECIAL INSPECTION OF BOLTS INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE.

3.1.5 SPECIFIC REQUIREMENTS FOR INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE SHALL BE AS DESCRIBED IN THE RESEARCH REPORT FOR THE SPECIFIED ANCHOR ISSUED BY AN APPROVED SOURSE (ICC, IAPMO, ETC.)

3.3 FOR ADDITIONAL SPECIAL INSPECTION REQUIREMENTS FOR REBAR SEE IBC TABLE 1705.2.2

3.2 ADDITIONAL REQUIRED SPECIAL INSPECTION FOR SEISMIC RESISTANCE PER IBC SECTION 1705.12

5A. REQUIRED VERIFICATION AND INSPECTION OF STRUCTURAL STEEL CONSTRUCTION INSPECTION OF WELDING

		VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD
1		AISC 360 TABLE N5.4-1			
		PRIOR TO WELDING, VERIFY AND INSPECT THE FOLLOWING:			
	A	WELDING PROCEDURE SPECIFICATIONS (WPS)	X	N/R	AISC 360 A3.5
	B	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES	X	N/R	AISC 360 A3.1
	C	MATERIAL IDENTIFICATION OF STRUCTURAL STEEL MEMBERS	N/R	X	
	D	WELDER IDENTIFICATION SYSTEM	N/R	X	
	E	FIT-UP OF GROOVE WELDS, INCLUDING JOINT GEOMETRY			
		1) JOINT PREPARATION	N/R	X	
		2) DIMENSIONS: ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL	N/R	X	
		3) CLEANLINESS: CONDITION OF STEEL SURFACES	N/R	X	
		4) TACKING: TACK WELD QUALITY AND LOCATION	N/R	X	
		5) BACKING TYPE AND FIT (IF APPLICABLE)	N/R	X	
	F	CONFIGURATION AND FINISH OF ACCESS HOLES	N/R	X	
	G	FIT-UP OF FILLET WELDS			
		1) DIMENSIONS: ALIGNMENT, GAPS AT ROOT	N/R	X	
		2) CLEANLINESS: CONDITION OF STEEL SURFACES	N/R	X	
		3) TACKING: TACK WELD QUALITY AND LOCATION	N/R	X	
2		AISC 360 TABLE N5.4-2			
		DURING WELDING, VERIFY AND INSPECT THE FOLLOWING:			
	A	USE OF QUALIFIED WELDERS	N/R	X	
	B	CONTROL AND HANDLING OF WELDING CONSUMABLES			
		1) PACKAGING	N/R	X	
		2) EXPOSURE CONTROL	N/R	X	
	C	NO WELDING OVER CRACKED TACK WELDS	N/R	X	
	D	ENVIRONMENTAL CONDITIONS			
		1) WIND SPEED WITHIN LIMITS	N/R	X	
		2) PRECIPITATION AND TEMPERATURE	N/R	X	
	E	WELDING PROCEDURE SPECIFICATIONS FOLLOWED			
		1) SETTINGS ON WELDING EQUIPMENT	N/R	X	
		2) TRAVEL SPEED	N/R	X	
		3) SELECTED WELDED MATERIALS	N/R	X	
		4) SHIELDING GAS TYPE AND FLOW RATE	N/R	X	
		5) PREHEAT APPLIED	N/R	X	
		6) INTERPASS TEMPERATURE MAINTAINED	N/R	X	
		7) PROPER POSITION	N/R	X	
	F	WELDING TECHNIQUES			
		1) INTERPASS AND FINAL CLEANING	N/R	X	
		2) EACH PASS WITHIN PROFILE LIMITATIONS	N/R	X	
		3) EACH PASS MEETS QUALITY REQUIREMENTS	N/R	X	
3		AISC 360 TABLE N5.4-3			
		AFTER WELDING, VERIFY AND INSPECT THE FOLLOWING:			
	A	WELDS CLEANED	N/R	X	
	B	SIZE, LENGTH, AND LOCATION OF WELDS	X	N/R	
	C	WELDS MEET VISUAL ACCEPTANCE CRITERIA			
		1) CRACK PROHIBITION	X	N/R	
		2) WELD TO BASE METAL FUSION	X	N/R	
		3) CRATER CROSS SECTION	X	N/R	
		4) WELD PROFILES	X	N/R	
		5) WELD SIZE	X	N/R	
		6) UNDERCUT	X	N/R	
		7) POROSITY	X	N/R	
	D	ARC STRIKES	X	N/R	
	E	k-AREA	X	N/R	
	F	BACKING REMOVED AND WELD TABS REMOVED, IF REQUIRED	X	N/R	
	G	REPAIR ACTIVITIES	X	N/R	
	H	DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	X	N/R	

5B. REQUIRED VERIFICATION AND INSPECTION OF STRUCTURAL STEEL CONSTRUCTION INSPECTION OF BOLTING

		VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD
		AISC 360 TABLE N5.6-1			
1.		PRIOR TO BOLTING, VERIFY AND INSPECT THE FOLLOWING:			
	A.	MANUFACTURER'S CERTIFICATIONS FOR FASTENER MATERIALS	X	N/R	
	B.	FASTENERS MARKED IN ACCORDANCE WITH ASTM REQ'TS	N/R	X	
	C.	PROPER FASTENER SELECTED FOR JOINT DETAIL	N/R	X	AISC 360 A3.1
	D.	PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	N/R	X	
	E.	CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITIONS AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	N/R	X	
	F.	PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	X	N/R	
	G.	PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS	N/R	X	
		AISC 360 TABLE N5.6-2			
2.		DURING BOLTING, VERIFY AND INSPECT THE FOLLOWING:			
	A.	FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	N/R	X	
	B.	JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	N/R	X	
	C.	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	N/R	X	
	D.	FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	N/R	X	
		AISC 360 TABLE N5.6-3			
3.		AFTER BOLTING, VERIFY AND INSPECT THE FOLLOWING:			
	A.	DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	X	N/R	

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5D. REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

		VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD
		IBC TABLE 1705.2.2			
1.		MATERIAL VERIFICATION OF COLD FORMED STEEL DECK:			
	A.	IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE THE APPROVED CONSTRUCTION DOCUMENTS	N/R	X	APPLICABLE ASTM MATERIAL STANDARDS
	B.	MANUFACTURER'S CERTIFIED TEST REPORTS	N/R	X	
2.		INSPECTION OF WELDING:			
	A.	COLD FORMED STEEL DECK:			
		1) FLOOR AND ROOF DECK WELDS	N/R	X	AWS D1.3
	B.	REINFORCING STEEL:			AWS D1.4 ACI 318: SECTION 3.5.2
		1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706	N/R	X	
		2) SHEAR REINFORCEMENT	X	N/R	
		3) OTHER REINFORCING STEEL	N/R	X	

5.1 STRUCTURAL STEEL CONSTRUCTION

SPECIAL INSPECTION AND TESTING PER THE QUALITY ASSURANCE TESTING REQUIREMENTS OF AISC 360, AS NOTED IN TABLES N5.4-1, N5.4-2, N5.4-3, N5.6-1, N5.6-2, N5.6-3, N6.1, AND AWS D1.1, INCLUDING:

5.1.1 INSPECTION OF ERECTED STEEL SYSTEM.

5.1.2 REVIEW OF MATERIAL TEST REPORTS AND CERTIFICATIONS FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.

5.1.3 OBSERVATION OF WELDING OPERATIONS AND VISUAL INSPECTION OF IN-PROCESS AND COMPLETED WELDS SHALL BE AS FOLLOWS

A. VERIFY THAT WELD FILLER MATERIAL AND MANUFACTURER'S CERTIFICATE OF COMPLIANCE CONFORM TO AWS SPECIFICATION SPECIFIED. VERIFY WELDERS ARE CERTIFIED BY WABO, THAT PROPER ELECTRODES IN OVEN DRY CONDITIONS ARE USED, AND THAT PROPER METHODS AND PREPARATIONS ARE USED.

B. PERIODIC SPECIAL INSPECTION OF WELDING SHALL BE PERFORMED FOR SINGLE PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16" AND FLOOR AND DECK WELDS.

C. CONTINUOUS SPECIAL INSPECTION OF WELDING SHALL BE PERFORMED ON COMPLETE AND PARTIAL PENETRATION GROOVE WELDS AND FILLET WELDS GREATER THAN 5/16."

D. ALL WELDS SHALL BE CHECKED VISUALLY.

E. ALL SHOP AND FIELD WELDING SHALL BE SUBJECT TO INSPECTION BY A WABO CERTIFIED WELDING INSPECTOR EMPLOYED BY THE OWNER. THE INSPECTOR SHALL UTILIZE RADIOGRAPHIC, ULTRASONIC, OR MAGNETIC PARTICLE TESTING AND ANY OTHER AID TO VISUAL INSPECTION THAT MAY BE DEEMED NECESSARY TO ASSURE THE ADEQUACY OF WELDING. THE OWNER SHALL CARRY OUT TESTING AND INTERPRETATION AT ANY STAGE AFTER WELDING

F. 10% OF ALL FILLET WELDS SHALL BE CHECKED BY MAGNETIC PARTICLE TESTING.

G. 100% OF ALL COMPLETE PENETRATION WELDS SHALL BE CHECKED BY ULTRASONIC TESTING.

H. ALL WELDS FOUND DEFECTIVE AND REPAIRED SHALL BE REINSPECTED BY THE SAME METHOD ORIGINALLY USED. THE COST OF REPAIR AND REINSPECTION SHALL BE BORNE BY THE CONTRACTOR.

1. STANDARDS FOR ACCEPTANCE SHALL BE AS GIVEN IN AWS D1.1

5.1.4 OBSERVATION OF BOLTING OPERATIONS.

5.1.5 CONTINUOUSSPECIAL INSPECTION SHALL BE PERFORMED FOR EACH JOINT OR MAMBER. PERIODIC SPECIAL INSPECTION SHALL BE PERFORMED ON ITEMS ON A RANDOM BASIS PERIODIC SPECIAL INSPECTION NEED NOT DELAY FABRICATION OR ERECTION OPERATIONS

5.2 STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

SPECIAL INSPECTION AND TESTING PER IBC TABLE 1705.2.2, AND AWS D1.1

5.2.1 WELDING OF REINFORCING STEEL: PER IBC TABLE 1705.2.2 ITEM 2B, AWS D1.4. AND THE FOLLOWING:

A. VERIFY WELDABILITY OF REINFORCING STEEL FOR OTHER THAN ASTM A706

B. PROVIDE WELDING PROCEDURE SPECIFICATION (WPS) PER SECTION 5.2 AND QUALIFYING TEST OF WPS AS REQ'D BY AWS D1.4.

C. CONTINUOUS SPECIAL INSPECTION SHALL BE PERFORMED PER IBC TABLE 1705.2.2 ITEM 2B

D. WELDS SHALL BE CHECKED BY RADIOGRAPHIC OR ULTRASONIC TESTING AS REQ'D BY AWS D1.4.

5.2.2 COLD FORMED STEEL TRUSSES SPANNING 60-FEET OR GREATER:

A. SPECIAL INSPECTOR SHALL VERIFY THAT THE TEMPORARY INSTALLATION RESTRAINT/BRACING AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SHOP DRAWINGS.

B. TRUSSES NOT PART OF A MANUFACTURING PROCESS THAT PROVIDES REQUIREMENTS FOR QUALITY CONTROL DONE UNDER THE SUPERVISION OF A THIRD-PARTY QUALITY CONTROL AGENCY SHALL BE MANUFACTURED IN COMPLIANCE WITH IBC SECTION 1704.2.5.

5.2.3 EPOXY ANCHORS: SPECIFIC REQUIREMENTS FOR INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE OR MASONRY SHALL BE AS DESCRIBED IN THE RESEARCH REPORT ISSUED BY AN APPROVED SOURCE (ICC, IAPMO, ETC.)

5.2.4 EXPANSION ANCHORS: SPECIFIC REQUIREMENTS FOR INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE OR MASONRY SHALL BE AS DESCRIBED IN THE RESEARCH REPORT ISSUED BY AN APPROVED SOURCE (ICC, IAPMO, ETC.)

5.3 ADDITIONAL REQUIRED SPECIAL INSPECTION FOR SEISMIC RESISTANCE PER IBC SECTION 1705.11. AND 1705.12

8.1 SEISMIC RESISTANCE

8.1.1 SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE PER IBC 1705.11 SHALL BE REQUIRED FOR THE FOLLOWING:

A. SPECIAL INSPECTIONS OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE THE QUALITY ASSURANCE REQUIREMENTS OF AISC 341.

C. PERIODIC SPECIAL INSPECTION OF NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF WOOD COMPONENTS WITHIN THE SEISMIC FORCE RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS AND HOLDOWNS.

D. PERIODIC SPECIAL INSPECTION OF WELDING OPERATIONS OF COLD-FORMED STEEL ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM.

E. PERIODIC SPECIAL INSPECTION OF SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF COLD-FORMED STEEL COMPONENTS WITHIN THE SEISMIC FORCE RESISTING SYSTEM, INCLUDING SHEAR WALLS, DIAPHRAGMS, COLLECTORS, BRACES, AND HOLDOWNS

F. PERIODIC SPECIAL INSPECTION DURING THE ERECTION AND FASTENING OF EXTERIOR CLADDING, INTERIOR AND EXTERIOR NON-BEARING WALLS, AND INTERIOR AND EXTERIOR VENEER IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E, OR F PER IBC 1705.11.5.

G. PERIODIC SPECIAL INSPECTION DURING THE ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STANDBY POWER SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F.

H. PERIODIC SPECIAL INSPECTION DURING THE ANCHORAGE OF OTHER ELECTRICAL EQUIPMENT IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY E OR F.

I. PERIODIC SPECIAL INSPECTION DURING THE INSTALLATION AND ANCHORAGE OF PIPING SYSTEMS DESIGNED TO CARRY HAZARDOUS MATERIALS AND THEIR ASSOCIATED MECHANICAL UNITS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F.

J. PERIODIC SPECIAL INSPECTION OF DURING THE INSTALLATION AND ANCHORAGE OF DUCTWORK DESIGNED TO CARRY HAZARDOUS MATERIALS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F.

K. PERIODIC SPECIAL INSPECTION DURING THE INSTALLATION AND ANCHORAGE OF VIBRATION ISOLATION SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F WHERE THE CONSTRUCTION DOCUMENTS REQUIRE A NOMINAL CLEARANCE OF 1/4" OR LESS BETWEEN THE EQUIPMENT SUPPORT FRAME AND RESTRAINT.

L. PERIODIC SPECIAL INSPECTION DURING THE ANCHORAGE OF STORAGE RACKS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATAGORY D, E, OR F FOR 8-FT OR GREATER IN HEIGHT.

M. PERIODIC SPECIAL INSPECTION DURING THE FABRICATION AND INSTALLATION OF ISOLATOR UNITS AND ENERGY DISSIPATION DEVICES. FOR SEISMIC ISOLATION SYSTEMS

8.1.2 TESTING AND QUALIFICATION FOR SEISMIC RESISTANCE PER IBC 1705.12 SHALL BE REQUIRED FOR SEISMIC FORCE-RESISTING SYSTEM IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F FOR THE FOLLOWING:

A. TESTING FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE REQUIREMENTS OF AISC 341

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QUALITY ASSURANCE NOTES

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Sa1.04

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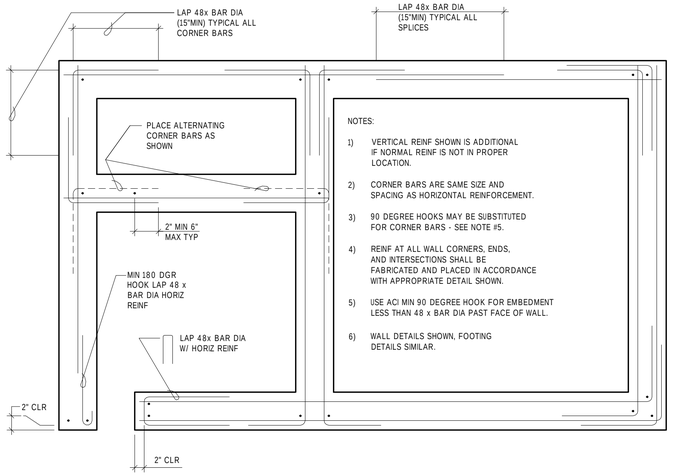


NOTES:

1) VERTICAL REINF SHOWN IS ADDITIONAL IF NORMAL REINF IS NOT IN PROPER LOCATION.

2) CORNER BARS ARE SAME SIZE AND SPACING AS HORIZONTAL REINFORCEMENT.

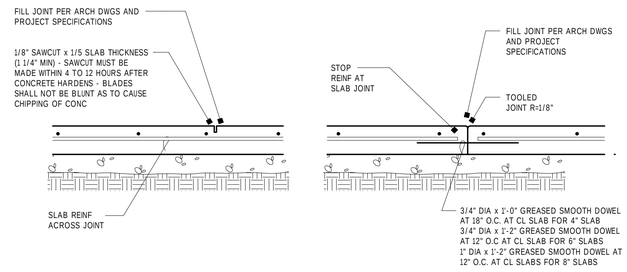
3) 90 DEGREE HOOKS MAY BE SUBSTITUTED FOR CORNER BARS - SEE NOTE #5.

4) REINF AT ALL WALL CORNERS, ENDS, AND INTERSECTIONS SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH APPROPRIATE DETAIL SHOWN.

5) USE ACI MIN 90 DEGREE HOOK FOR EMBEDMENT LESS THAN 48 x BAR DIA PAST FACE OF WALL.

6) WALL DETAILS SHOWN, FOOTING DETAILS SIMILAR.

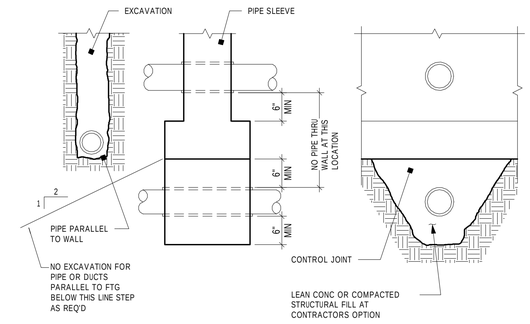
1 TYP REINF PLACING DETAIL
1" = 1'-0"



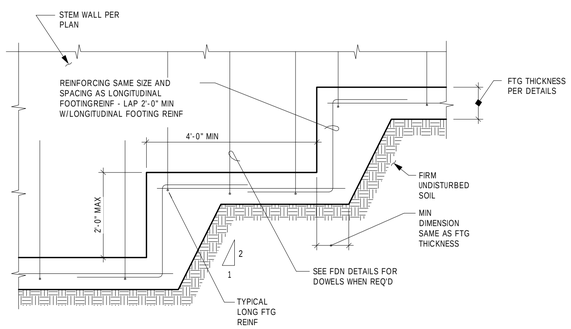
TYPICAL CONTROL JOINT

TYPICAL CONSTRUCTION JOINT

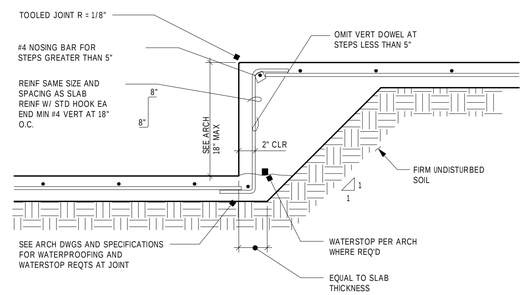
2 TYP CONSTRUCTION/CONTROL JOINT
1" = 1'-0"



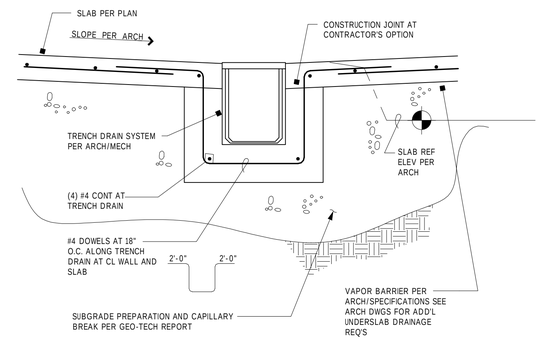
3 TYP DETAIL OF PIPE AT CONC FTG
1" = 1'-0"



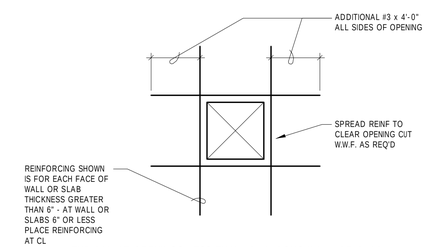
4 TYP STEPPED FOOTING
1" = 1'-0"



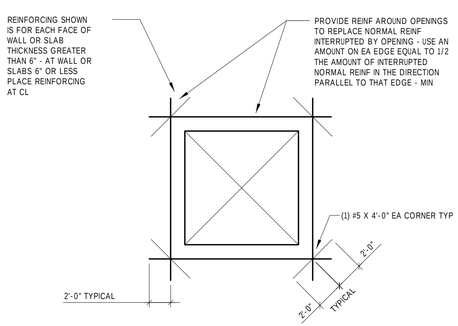
5 TYP AT STEPS IN CONC SLAB ON GRADE
1" = 1'-0"



6 TYP TRENCH DRAIN CONSTRUCTION
1" = 1'-0"

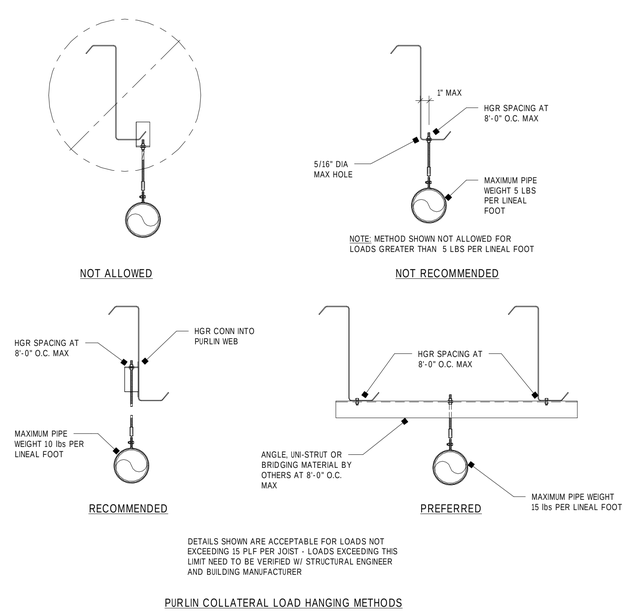


TYPICAL AT OPENINGS LESS THAN 12" IN CONC WALL OR SLAB



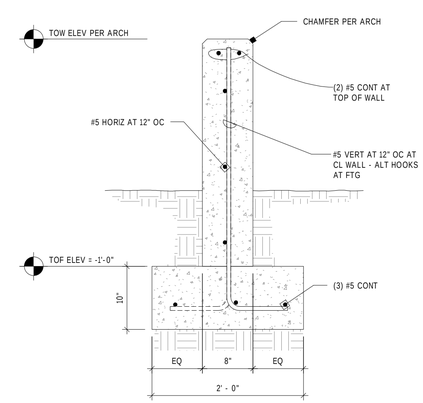
TYPICAL AT OPENINGS GREATER THAN 12" IN CONC WALL OR SLAB

7 TYP OPENINGS IN CONC WALL OR SLAB
1" = 1'-0"



PURLIN COLLATERAL LOAD HANGING METHODS

8 TYP PURLIN COLLATERAL LOAD HANGING METHODS
1" = 1'-0"



EXTERIOR CONCRETE SIGN

9 SECTION
1" = 1'-0"

D FD 24

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TYPICAL DETAILS

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KEY TO ABBREVIATIONS

SQR	SQUARE	JNT	JOINT
DIA	DIAMETER	JST	JOIST
CL	CENTERLINE	K, KIPS	KIPS = 1000 LBS
PL	PLATE	L	ANGLE
AB	ANCHOR BOLT	LLH	LONG LEG HORIZONTAL
ADJ	ADJACENT	LLV	LONG LEG VERTICAL
AFF	ABOVE FINISH FLOOR	LOC	LOCATE, LOCATION
ARCH	ARCHITECTURAL, ARCHITECT	LONGIT, LONG	LONGITUDINAL
ASD	ALLOWABLE STRESS DESIGN	MB	MACHINE BOLT
BLKG	BLOCKING	MECH	MECHANICAL
BM	BEAM	MFR	MANUFACTURER
BNDY	BOUNDARY	MIW	MALLEABLE IRON WASHER
BOT	BOTTOM	NS	NEAR SIDE
BRG	BEARING	NTS	NOT TO SCALE
BS	BOTH SIDES	NWT	NORMAL WEIGHT
BU STUD	BUILT UP STUD	O/	OVER
CIP	CAST-IN-PLACE	OC	ON CENTER
CJ	CONSTRUCTION/ CONTROL JOINT	OF	OUTSIDE FACE
CLG	CEILING	OPP	OPPOSITE HAND
CLR	CLEAR	OSB	ORIENTED STRAND BOARD
CMU	CONCRETE MASONRY UNIT	PC	PRE-CAST
COL	COLUMN	PDF	POWDER DRIVEN FASTENERS
CONC	CONCRETE	PERP	PERPENDICULAR
CONT	CONTINUOUS	PLF	POUNDS PER LINEAR FOOT
CSK	COUNTERSINK	PNL	PANEL
CTR	CENTER	PRE-ENG, PE	PRE-ENGINEERED
CVR	COVER	PROV	PROVIDE
DIA	DIAMETER	PW	PLYWOOD
DIAPH	DIAPHRAGM	REF	REFERENCE
DIM	DIMENSION	RF	ROOF
ELEV	ELEVATION	SCHED	SCHEDULE
EMB	EMBEDMENT	SHTG	SHEATHING
ENGR	ENGINEER	SIM	SIMILAR
EQ	EQUAL, EQUIVALENT	SIMP	SIMPSON STRONG-TIE
EQUIV	EQUIVALENT	SOG	SLAB ON GRADE
ES	EACH SIDE	SPCG	SPACING
EW	EACH WAY	STIFF	STIFFENER
EXIST, EX	EXISTING	SW	SHEARWALL
EXP	EXPANSION	T&G	TONGUE AND GROOVE
EXT	EXTERIOR	THK	THICK
FDN	FOUNDATION	THRD	THREADED
FF	FINISH FLOOR	TO	TOP OF
FFE	FINISH FLOOR ELEVATION	TOC	TOP OF CONCRETE
FOC	FACE OF CONCRETE	TOF	TOP OF FOOTING
FOM	FACE OF MASONRY	TOPL	TOP OF PLATE
FOS	FACE OF STUD	TOS	TOP OF STEEL
FS	FAR SIDE	TOW	TOP OF WALL
FTG	FOOTING	TRANS, TRANSV	TRANSVERSE
GA	GAGE	TRTD	TREATED
GALV	GALVANIZED	TS	TUBE STEEL
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GL	GLUE LAMINATED	UNO	UNLESS NOTED OTHERWISE
GLB	GLUE LAMINATED BEAM	W/	WITH
GWB	GYPSUM WALL BOARD	W/O	WITHOUT
HGR	HANGER	WF	WIDE FLANGE
HT	HEIGHT	WHS	WELDED HEADED STUD
IF	INSIDE FACE	WTS	WELDED THREADED STUD
INT	INTERIOR	WWF	WELDED WIRE FABRIC

1 ABBREVIATIONS
N.T.S.

WALL LEGEND:

STRUCTURAL WALL ORIGINATING ON PLAN ON WHICH IT IS NOTED (##) INDICATES STUD TYPE PER SCHED

WALL/COLUMNS BELOW ROOF - SEE FLOOR OR FOUNDATION PLAN BELOW FOR REQ'S

(C?) COLUMN ORIGINATING ON PLAN ON WHICH IT IS NOTED - SEE PLAN FOR COLUMN TYP NOTED(C?)

BEAM SUPPORTING ROOF FRAMING ON LEVEL ON WHICH IT IS NOTED - SEE PLAN BELOW FOR COLUMN REQ'S

2 WALL LEGEND
N.T.S.

FOUNDATION NOTES:

1. SEE SHEET Sa1.01,AND Sa1.02 FOR STRUCTURAL NOTES AND SHEET Sa1.05 FOR TYPICAL DETAILS.
2. SEE ARCHITECTURAL/MECHANICAL DRAWINGS FOR DRAINS, SLOPES, AND OTHER FLOOR DEPRESSIONS NOT SHOWN.
3. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, ELEVATIONS, AND WALLS NOT SHOWN.
4. LOCATIONS OF TUBE STEEL COLUMNS LOCATED IN WALLS ARE SHOWN SCHEMATICALLY ON STRUCTURAL DRAWINGS. THE CONTRACTOR IS TO COORDINATE LOCATION OF TUBE STEEL COLUMNS WITH ARCHITECTURAL DRAWINGS.
5. COLUMNS NOT SPECIFICALLY LOCATED BY DIMENSIONS SHALL BE LOCATED ADJACENT TO OPENINGS AS DIMENSIONED BY THE ARCHITECT. SEE ARCHITECTURAL DRAWINGS FOR DETAILS AT ALL WINDOW AND DOOR JAMBS.
6. SEE ARCHITECTURAL DRAWINGS FOR STUD SIZE, SPACING, AND CALLOUTS AT NON-STRUCTURAL WALLS.
7. ALL WALL STUDS SHALL BE COVERED WITH A MIN. OF 1/2" SHEATHING (EITHER GWB, PW OR OSB AS APPLICABLE) BOTH SIDE OF STUDS. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL WALL COVERING REQUIREMENTS. AT WALLS WITHOUT SHEATHING BOTH SIDES, APPROVED BRIDGING PER STUD MANUFACTURER SHALL BE PROVIDED. FOR ADDITIONAL CALLOUTS SEE (5 / Sa6.01)
8. ALL STUDS SHALL BE CONTINUOUS BETWEEN DETAIL CUTS.
9. COLUMNS DESIGNATED ■ ARE (2) STUD BUILT-UP COLUMNS FOR OPENINGS 3'-0" OR LESS AND (3) STUD BUILT-UP COLUMNS FOR OPENINGS GREATER THAN 3'-0" UNLESS NOTED OTHERWISE. FOR ADD'L REQ'S SEE BUILT-UP COLUMN SCHED (2 / Sa6.01)
10. FOR TYPICAL CONNECTION OF NON-STRUCTURAL WALLS TO SLAB, USE 0.145" DIA POWDER DRIVEN FASTENERS AT 16" O.C.
11. SEE SOILS REPORT FOR ALL FOUNDATION AND SLAB SUPPORT REQUIREMENTS. THIS IS TO INCLUDE ALL EXCAVATION, FILL AND FILL PLACEMENT REQUIREMENTS.
12. LATERAL LOAD RESISTING SYSTEM SHOWN IS SCHEMATIC AT PRE-ENGINEERED METAL BUILDING SYSTEMS. ALTERNATE LATERAL LOAD RESISTING SYSTEMS MAY BE USED, PROVIDED THEY ARE SUBMITTED TO AND APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO THE START OF FOUNDATION CONSTRUCTION.
13. ANCHOR BOLT QUANTITIES, SIZES, AND LOCATIONS SHALL BE INSTALLED PER THE BUILDING MANUFACTURER ANCHOR BOLT SETTING PLAN AT PRE-ENGINEERED METAL BUILDING SYSTEMS. THE ANCHOR BOLT SETTING PLAN SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR APPROVAL PRIOR TO THE START OF FOUNDATION CONSTRUCTION.
14. ANCHOR BOLT GROUPS SHALL BE SET TRUE AND PLUMB BY TEMPLATE AS INDICATED ON THE BUILDING MANUFACTURER ANCHOR BOLT SETTING PLAN AT PRE-ENGINEERED METAL BUILDING SYSTEMS.
15. FOUNDATIONS FOR PRE-ENGINEERED METAL BUILDING SYSTEMS SHALL NOT BE FORMED OR PLACED UNTIL PRE-ENGINEERED BUILDING SHOP DRAWINGS, CALCULATIONS AND FRAME REACTIONS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER. FOOTING SIZES INDICATED ON STRUCTURAL DRAWINGS ARE PRELIMINARY, AND MUST BE VERIFIED FOR ACCURACY AGAINST THE FINAL BUILDING REACTIONS.
16. FOUNDATIONS FOR PRE-ENGINEERED METAL BUILDING SYSTEMS HAVE BEEN DESIGNED AS A PINNED CONNECTION AT THE BASE OF MOMENT FRAMES AND WIND COLUMNS. DESIGNS WHICH ATTEMPT TO USE A FIXED BASE CONNECTION SHALL NOT BE PERMITTED.
17. BUILDING MANUFACTURER TO DESIGN PRE-ENGINEERED METAL BUILDING SYSTEMS TO SUPPORT ALL SUSPENDED EQUIPMENT (E.G. EXHAUST FANS, PIPING, LIGHTING, ETC...) SHOWN ON ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. BUILDING MANUFACTURER TO COORDINATE WEIGHTS AND LOCATIONS AND DESIGN BUILDING ACCORDINGLY.
18. BUILDING MANUFACTURER SHALL COMPLY WITH SECTION 1.5 ON SHEET Sa1.01 AND STRUCTURAL NOTE 5.7.6 ON SHEET Sa1.02

3 FOUNDATION NOTES
N.T.S.

ROOF FRAMING NOTES:

1. ALL BEAMS SHALL HAVE 0" CAMBER UNLESS NOTED OTHERWISE.
2. VERIFY ALL TOP OF BEAM AND TOP OF WALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
3. VERIFY ALL DOOR AND WINDOW WIDTHS AND HEIGHTS WITH ARCHITECTURAL DRAWINGS.
4. VERIFY SIZE AND LOCATION OF ALL MECHANICAL PENETRATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
5. PRE-ENGR BLDG MANUFACTURER TO DESIGN PRE-ENGR ROOF SYSTEM FOR LOADS DUE TO SPRINKLER SYSTEM. CONTRACTOR TO COORDINATE AND PROVIDE BLDG MANUFACTURER WITH MAGNITUDE AND LOCATIONS OF LOADS
6. ATTACH NON STRUCTURAL WALLS TO ROOF PER SHEET Sa6.02
7. LOADS DUE TO HIGH LIFT OVERHEAD DOORS AND ROOF HUNG EQUIPMENT HAVE NOT BEEN INDICATED IN THE ROOF DESIGN. COORDINATE SIZE AND LOCATION OF FRAMING REQUIRED TO SUPPORT HIGH LIFT DOORS AND ROOF HUNG EQUIPMENT

4 ROOF FRAMING NOTES
N.T.S.

FOOTING SCHEDULE

MARK	SIZE	REINFORCING	REMARKS
F3.0	3'-0"x3'-0"x12"	(4) #5 EA WAY	
F4.0	4'-0"x4'-0"x12"	(5) #5 EA WAY	
F5.0	5'-0"x5'-0"x16"	(6) #6 EA WAY	PROVIDE REINF TOP AND BOTTOM AT BRACED FRAME LOCATIONS
F6.0	6'-0"x6'-0"x18"	(7) #6 EA WAY	PROVIDE REINF TOP AND BOTTOM AT BRACED FRAME LOCATIONS
F6x6	6'-0"x6'-0"x7'-0"	(7) #6 EA WAY (TOP AND BOT)	
F7.0	7'-0"x7'-0"x18"	(8) #7 EA WAY	PROVIDE REINF TOP AND BOT AT PORTAL FRAME COL'S

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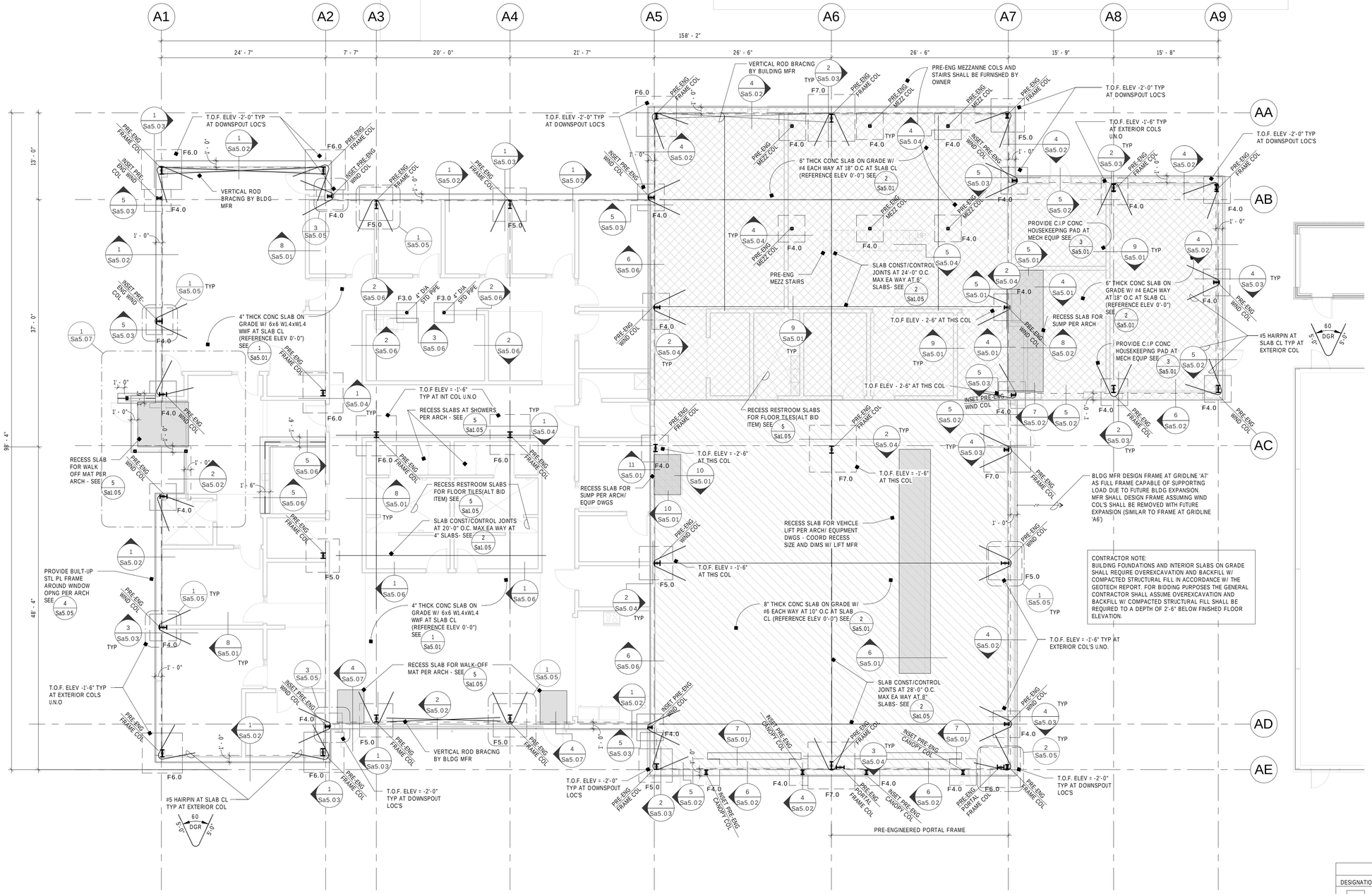

SLAB ON GRADE LEGEND		
DESIGNATION	SLAB THICKNESS	SLAB REINFORCEMENT
	4" THICK CONC SLAB ON GRADE	6x6 W1.4xW1.4
	6" THICK CONC SLAB ON GRADE	#4 AT 18" O.C. EA WAY
	8" THICK CONC SLAB ON GRADE	#6 AT 10" O.C. EA WAY

1 BUILDING A FOUNDATION PLAN

1/8" = 1'-0"

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FOUNDATION PLAN BUILDING 'A'

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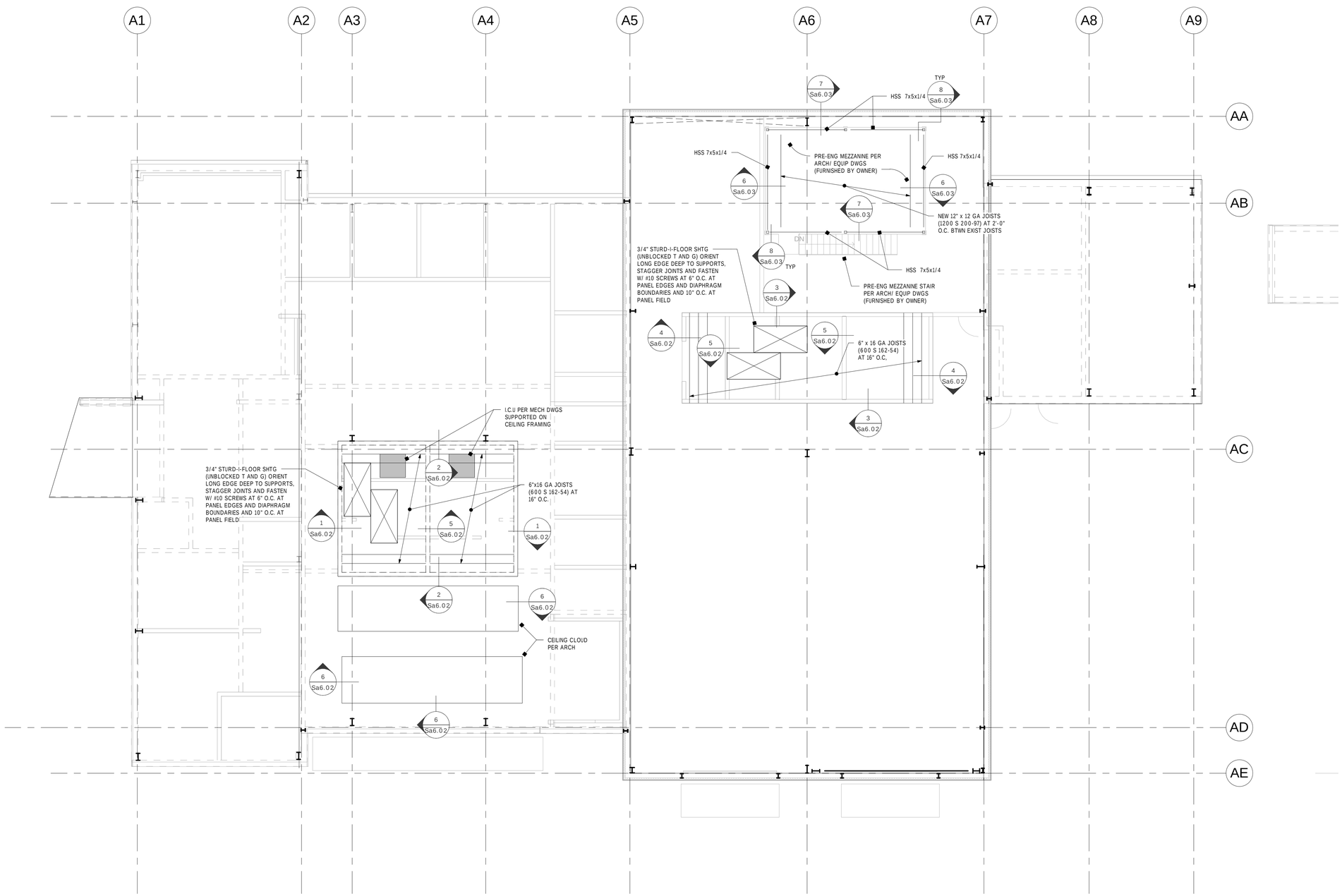

1 BUILDING A CEILING FRAMING PLAN
1/8" = 1'-0"

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Sheet Title
MEZZANINE/ CEILING FRAMING PLAN BUILDING 'A'

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Checked By **ADM**

Sheet Number
Sa3.01

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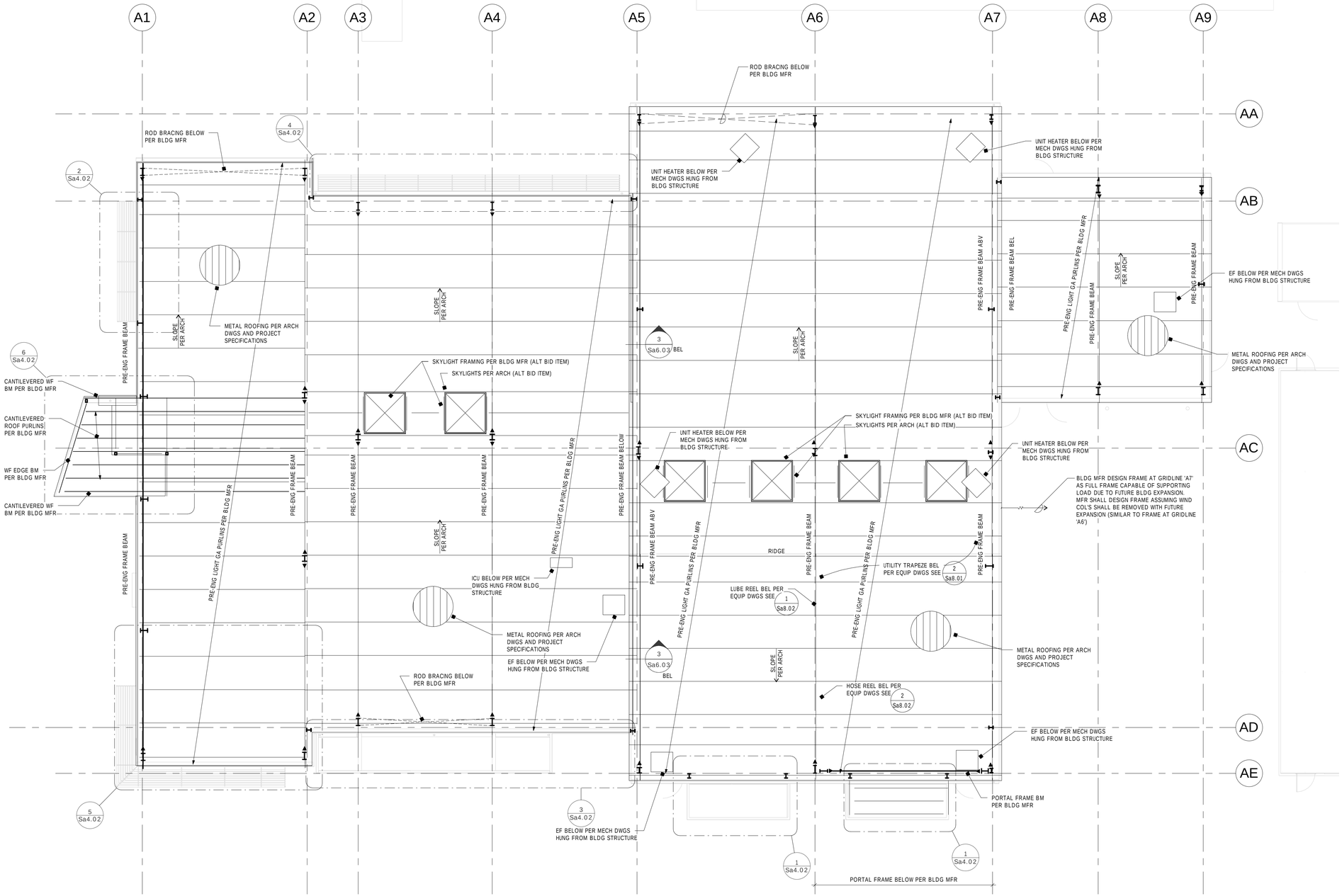

1 BUILDING A ROOF FRAMING PLAN
1/8" = 1'-0"

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Sheet Title
ROOF FRAMING PLAN BUILDING 'A'

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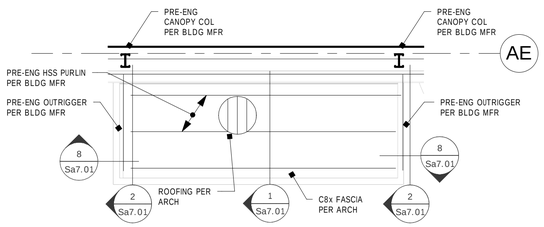

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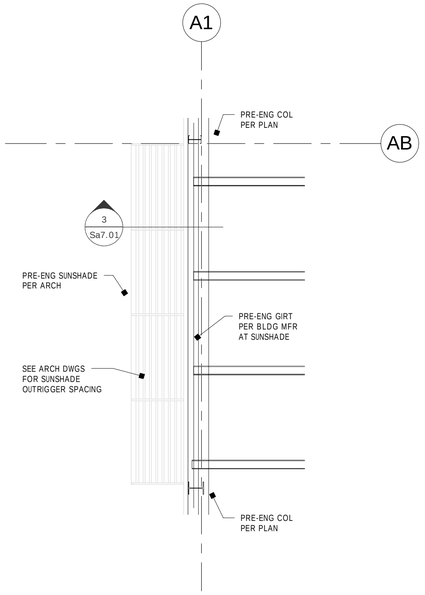

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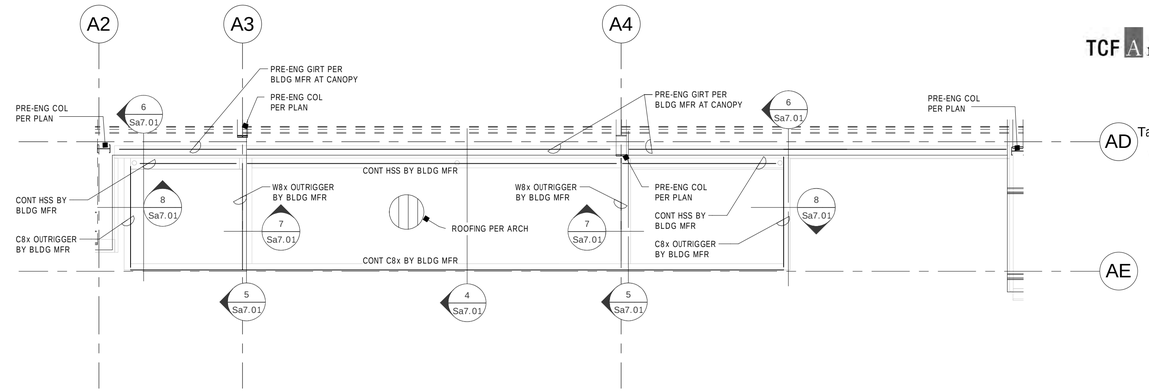

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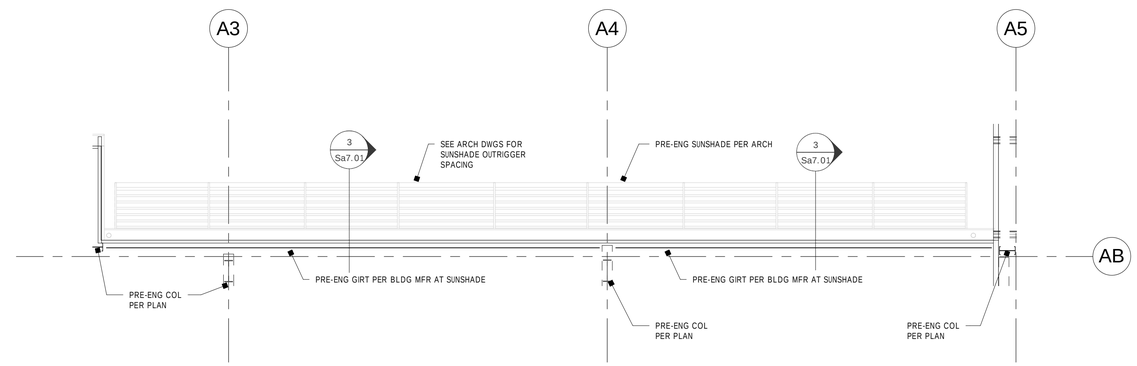

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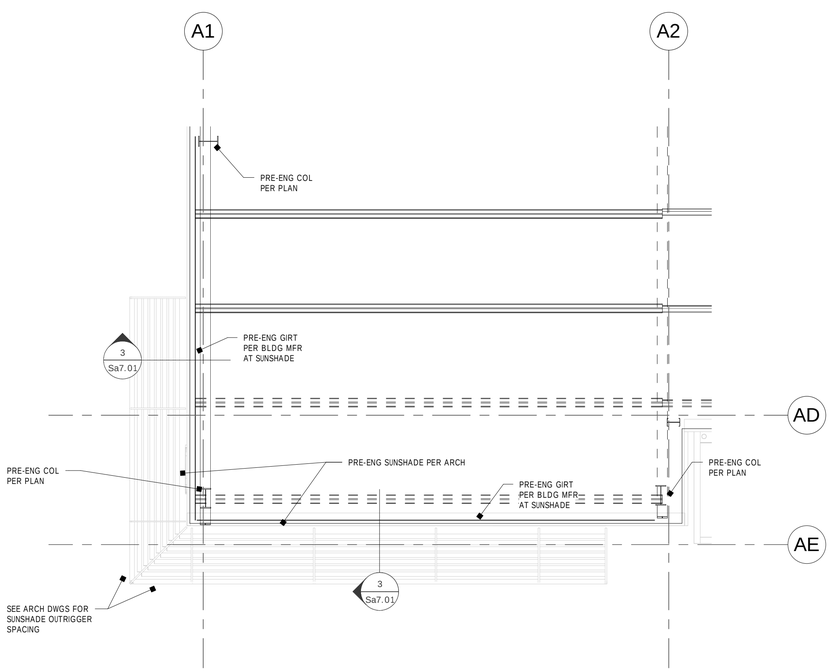

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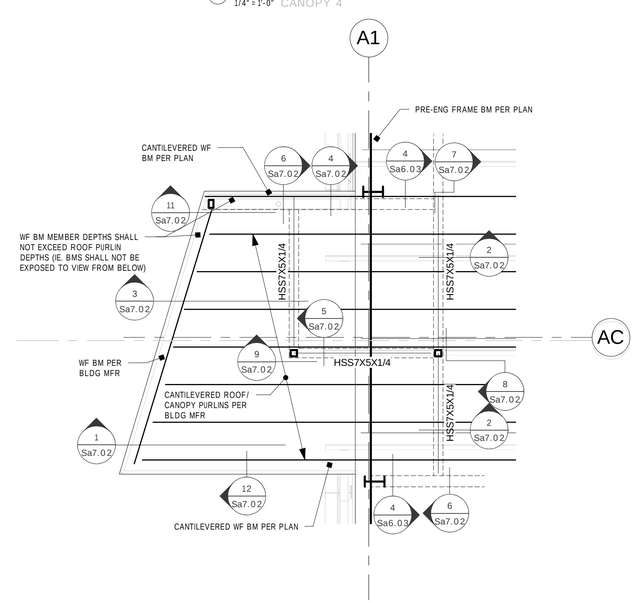

6 PLAN
1/4" = 1'-0" CANOPY 1

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CANOPY FRAMING PLAN BUILDING 'A'

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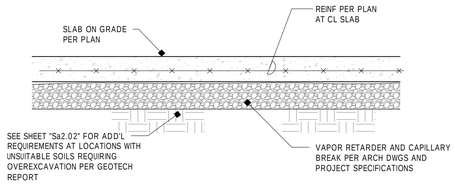

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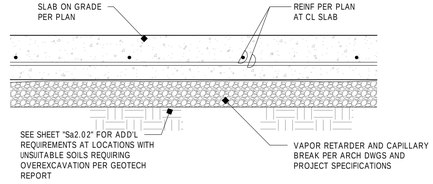

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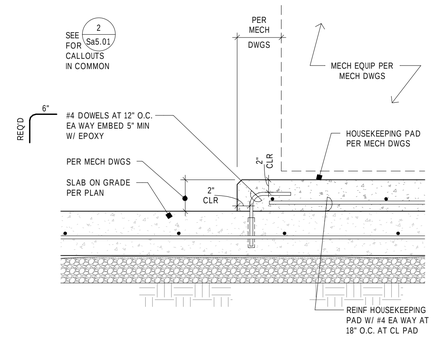

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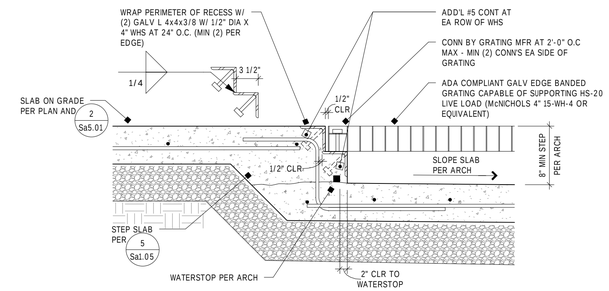

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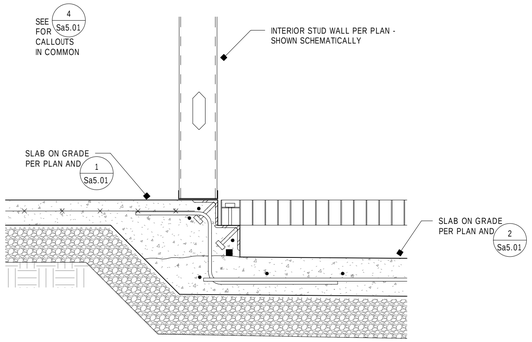

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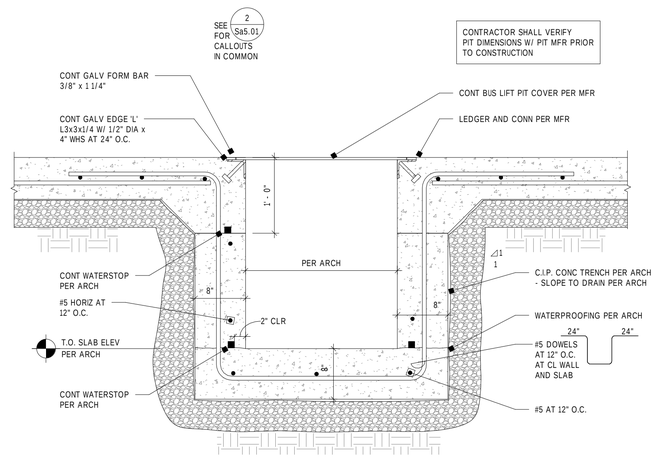

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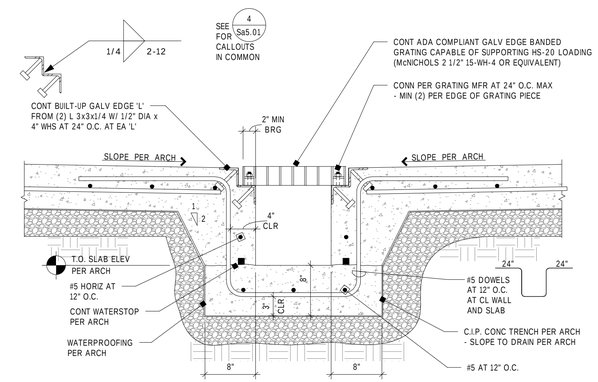

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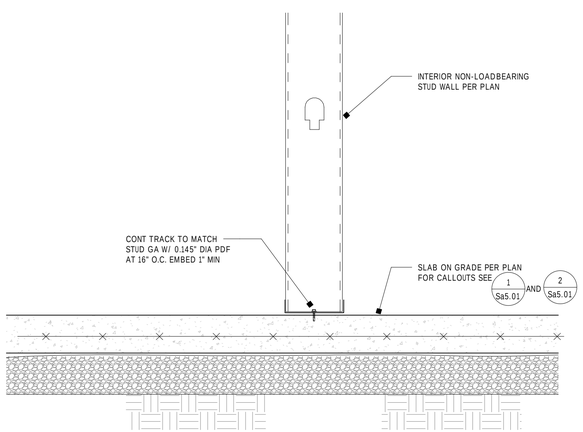

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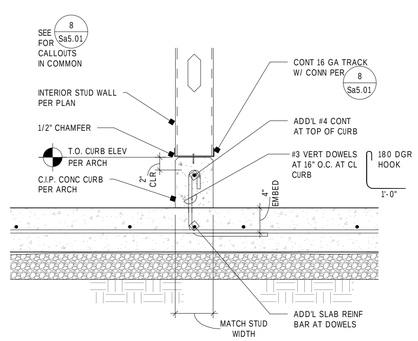

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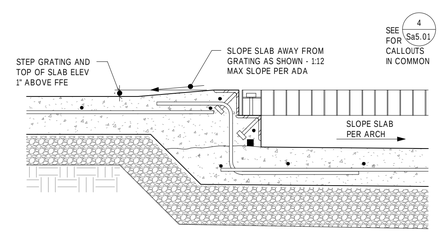

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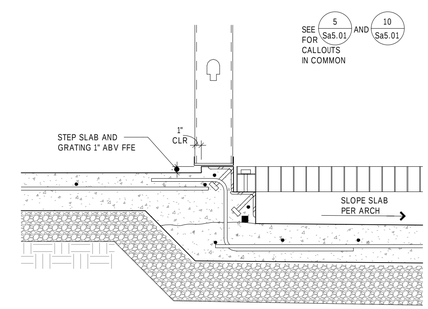

11 SECTION
1" = 1'-0" D FD 47 'A'

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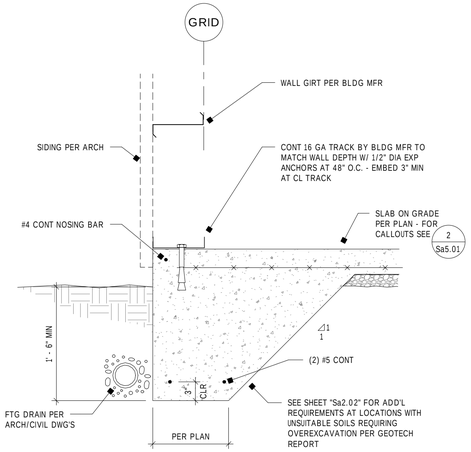

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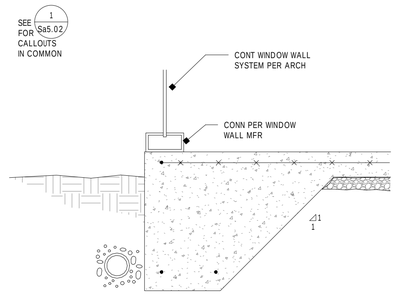

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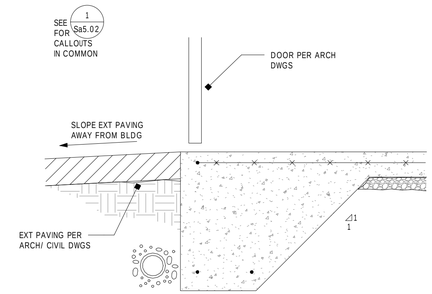

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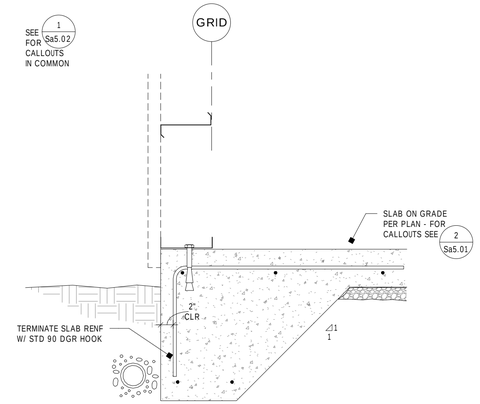

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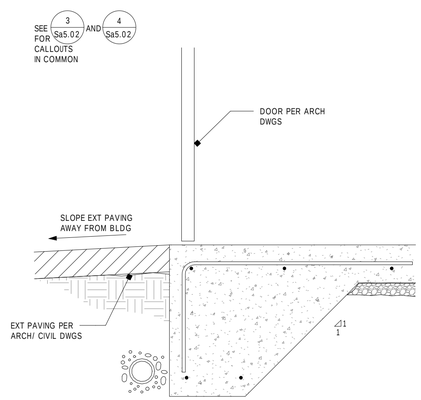

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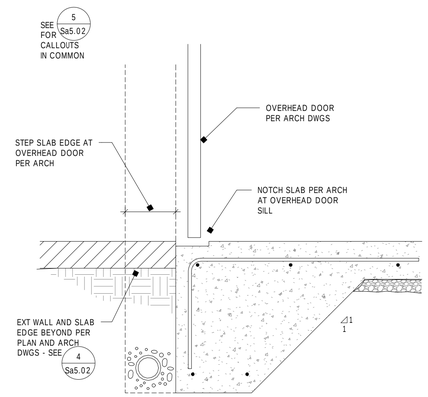

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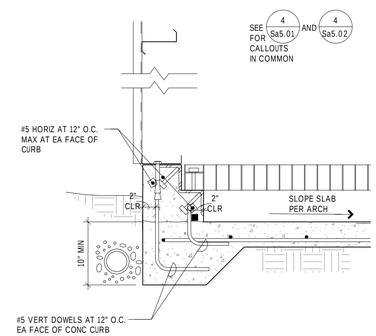

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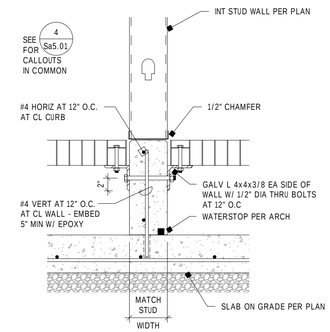

8 SECTION
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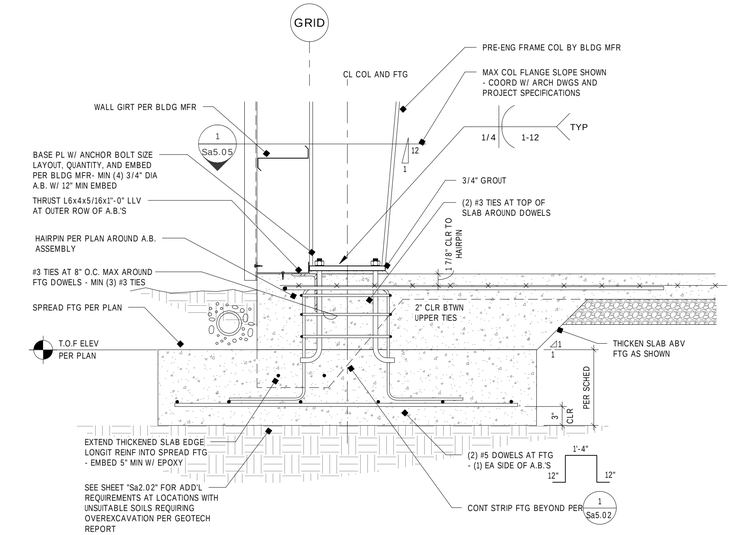

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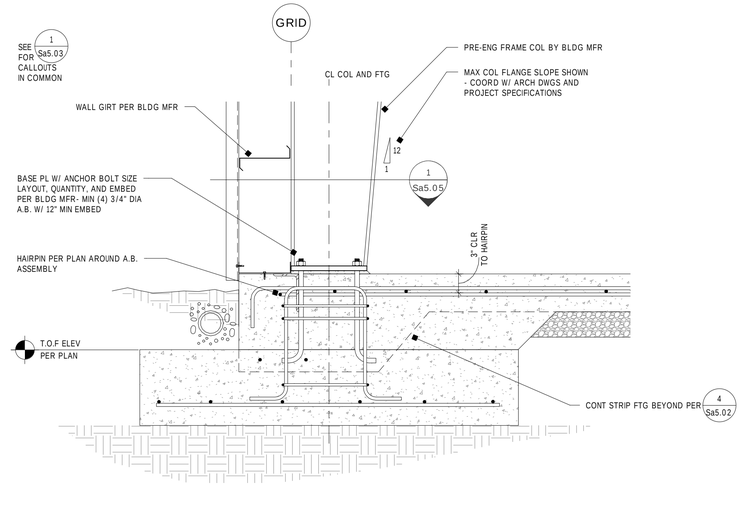

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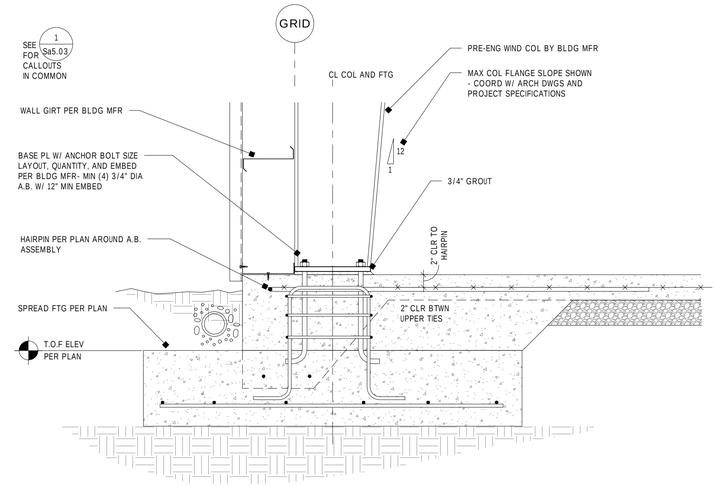

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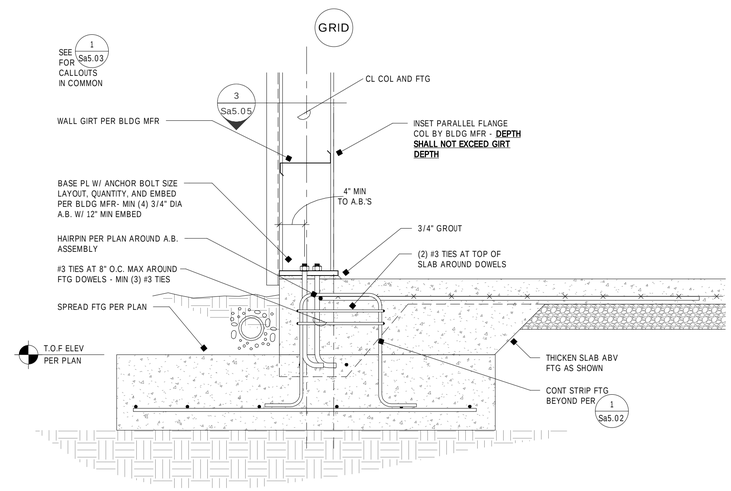

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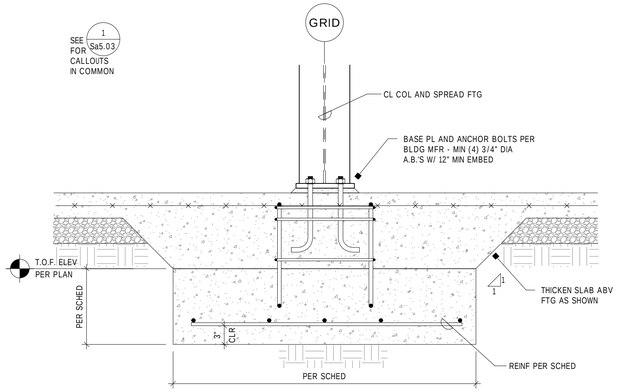

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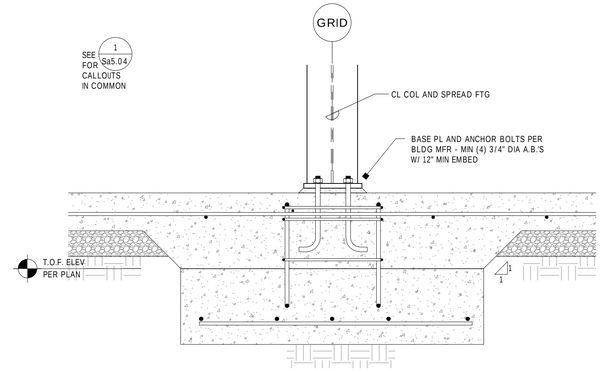

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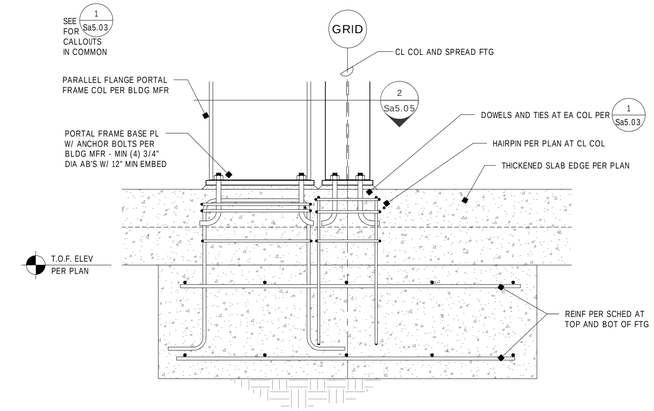

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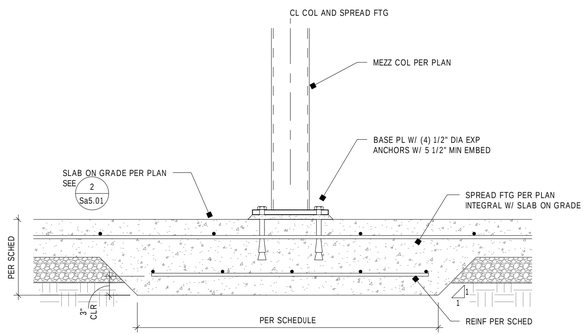

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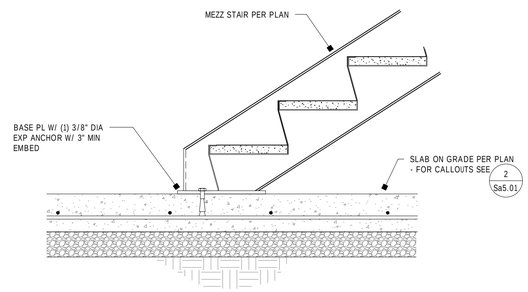

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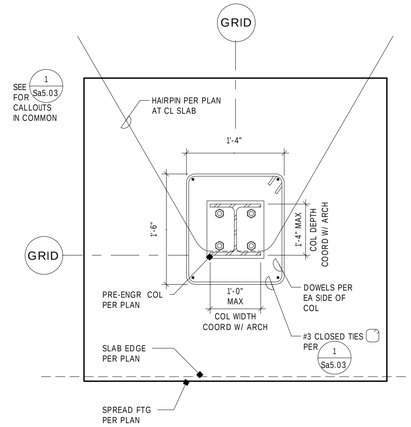
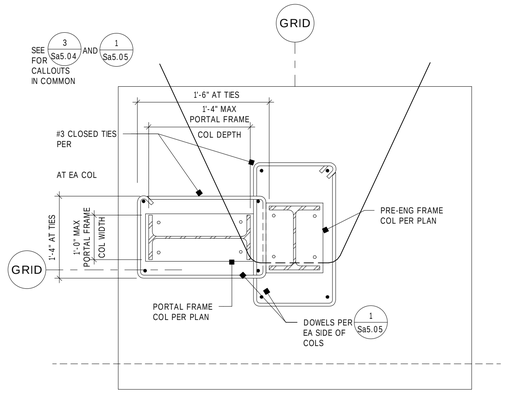


1 PLAN
1" = 1'-0" D FD 5



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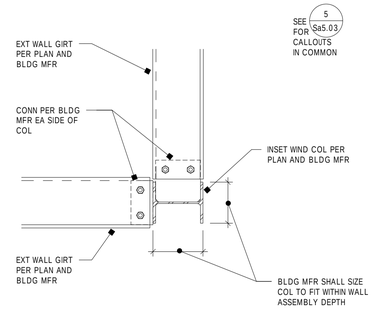

3 PLAN
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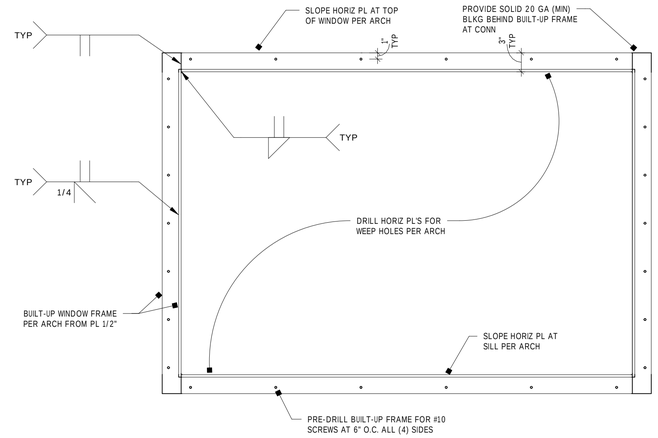

BUILT-UP WINDOW FRAME

4 SECTION
1" = 1'-0" D FD 34

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TCF Architecture, PLLC

BID SET

Project Title
JEFFERSON TRANSIT AUTHORITY

63 FOUR CORNERS RD
PORT TOWNSEND, WASHINGTON 98368

Project Numbers
Project Number

FTA PROJECT NUMBER: WA-0180-02

Issue & Revision Dates

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Sheet Title
FOUNDATION DETAILS

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Checked By **ADM**

Sheet Number
Sa5.05

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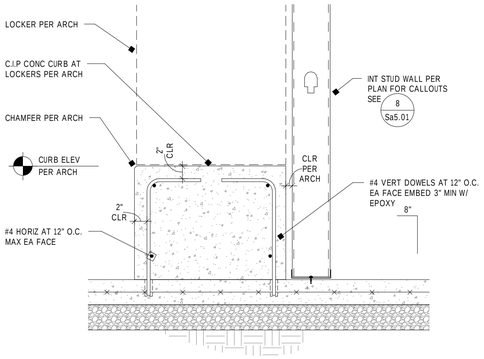

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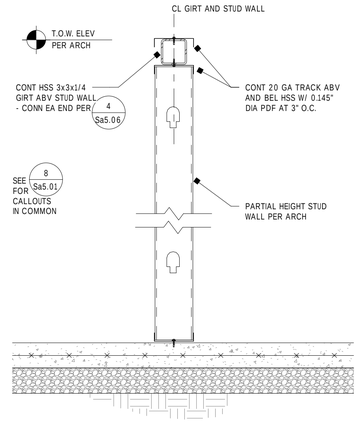

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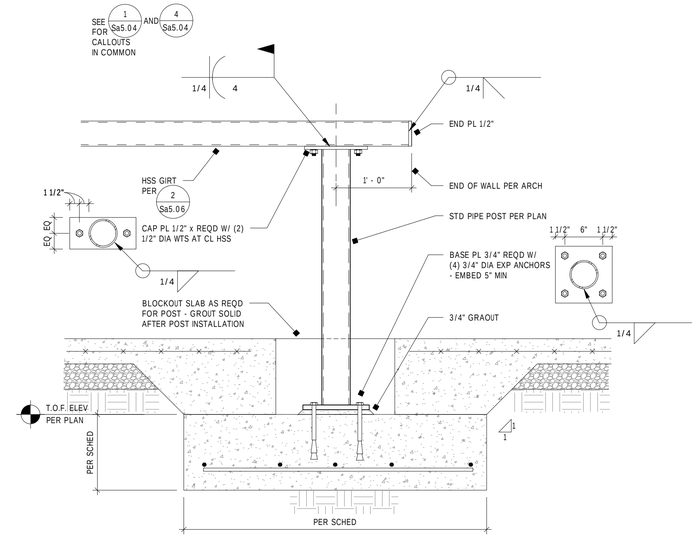

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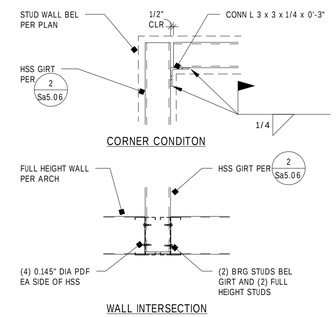

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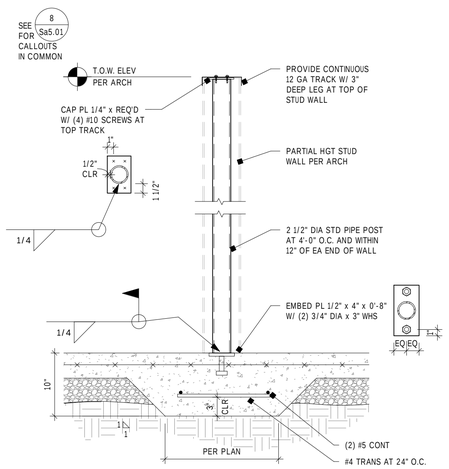
1" = 1'-0" D FD 38



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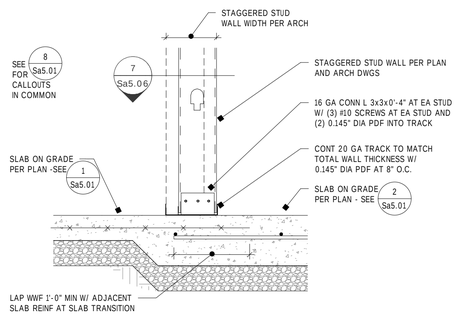

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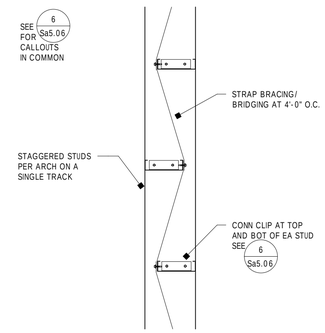

7 PLAN
1" = 1'-0" D FD 41

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Project Number

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FOUNDATION DETAILS

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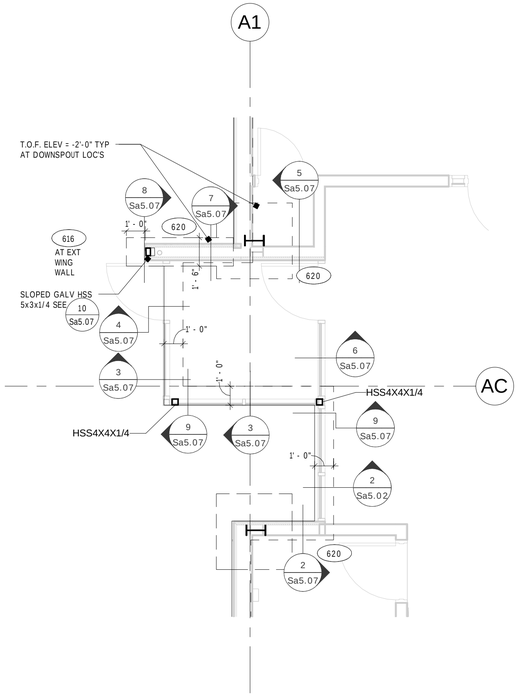
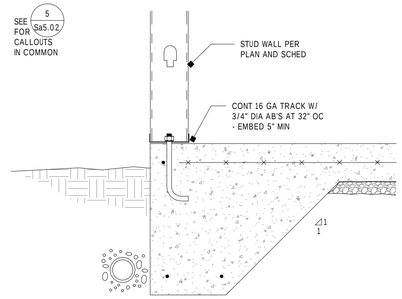


1 ENTRY WAY FOUNDATION PLAN
1/4" = 1'-0"



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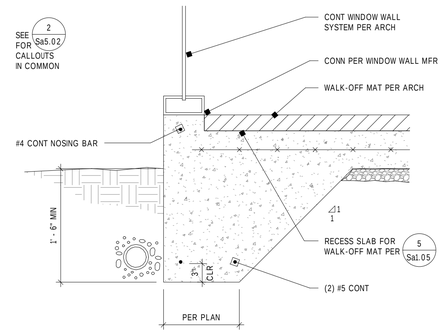

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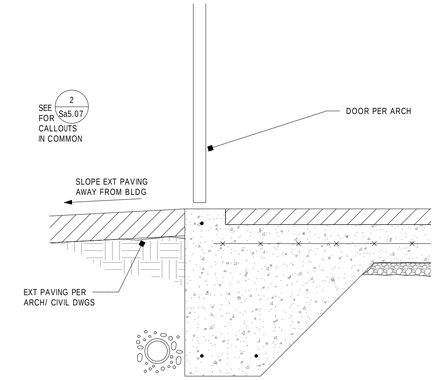

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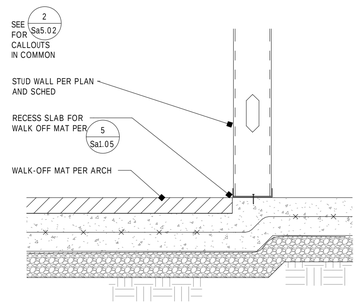

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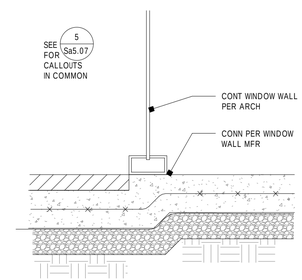
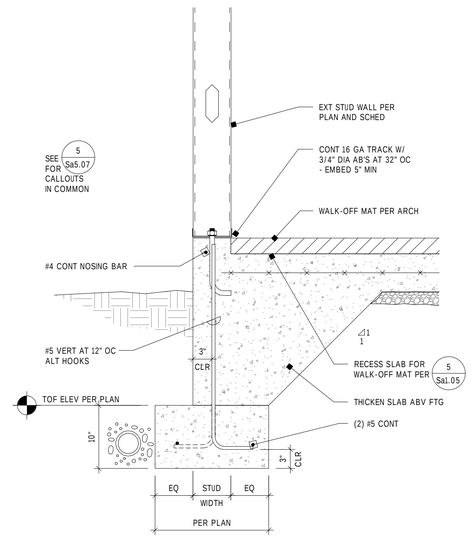


6 SECTION
1" = 1'-0" D FD 29



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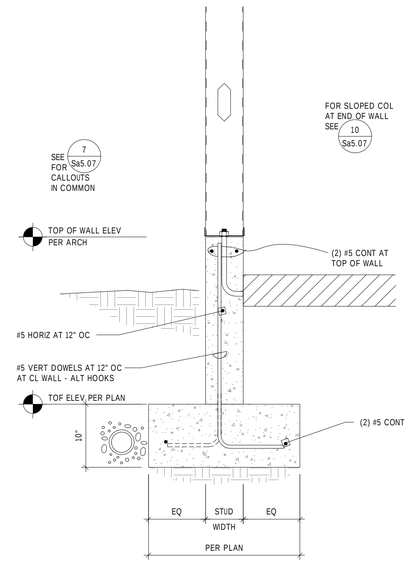
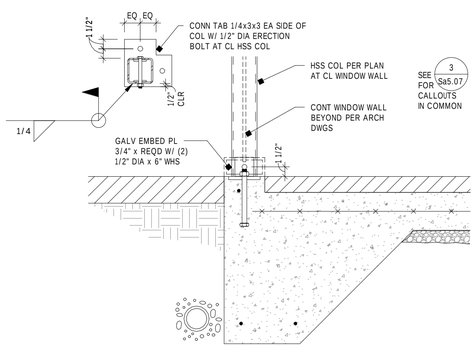


8 SECTION
1" = 1'-0" D FD 31



9 SECTION
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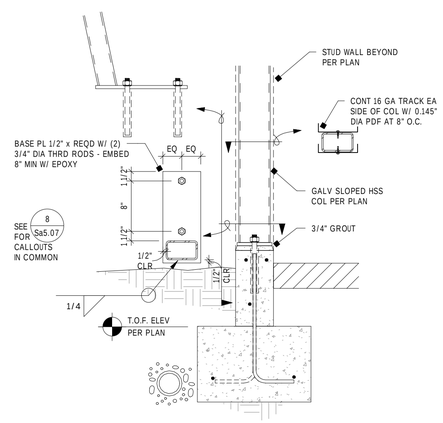

10 SECTION
1" = 1'-0" D FD 33

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ENTRY FOUNDATION PLAN AND DETAILS

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Sheet Number
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STEEL STUD WALL SCHEDULE				
EXTERIOR STUD WALL				
MARK	LOCATION	STUD DESIGNATION	SPACING	NOTES
620	14'-0" TALL WITHOUT VENEER	6" x 20 GA (600 S 162-33)	16" O.C.	
616	18'-0" TALL WITHOUT VENEER	6" x 16 GA (600 S 162-54)	16" O.C.	
INTERIOR STUD WALL				
420	14'-0" TALL WITHOUT VENEER	4" x 20 GA (400 S 162-33)	16" O.C.	
620	24'-0" TALL WITHOUT VENEER	6" x 20 GA (600 S 162-33)	16" O.C.	

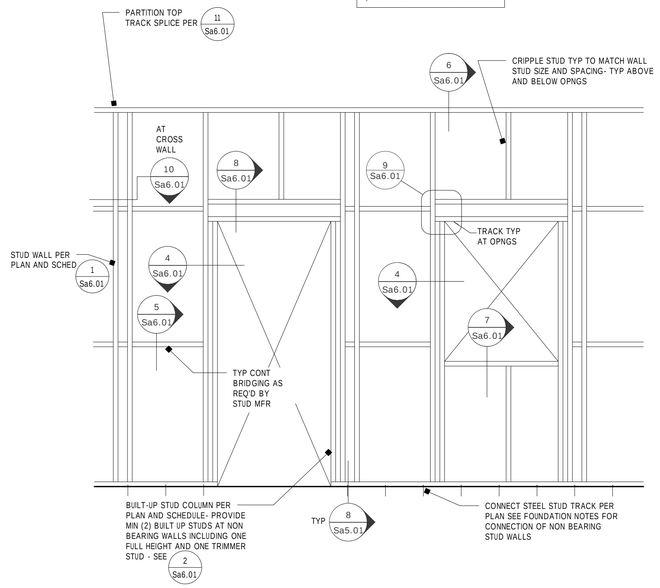
NOTES:
1. STUD HEIGHT SHOWN INDICATES UNSUPPORTED HEIGHT OF STEEL STUDS (TOP OF SLAB ELEV TO ROOF CONN ELEV)

1 STEEL STUD WALL SCHEDULE
N.T.S.

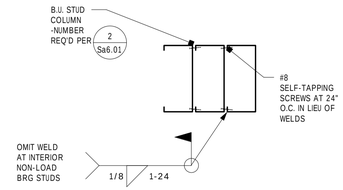
TYPICAL STEEL STUD BUILT-UP COLUMN SCHEDULE		
EXTERIOR WALLS OPENING WIDTH	BEARING STUDS	FULL HEIGHT STUDS
3'-0" OR LESS	1	2
6'-0" OR LESS	1	3
10'-0" OR LESS	2	4
16'-0" OR LESS	2	6
INTERIOR WALLS OPENING WIDTH	BEARING STUDS	FULL HEIGHT STUDS
6'-0" OR LESS	1	1
10'-0" OR LESS	1	2
20'-0" OR LESS	2	4

2 BUILT-UP COL SCHED
N.T.S.

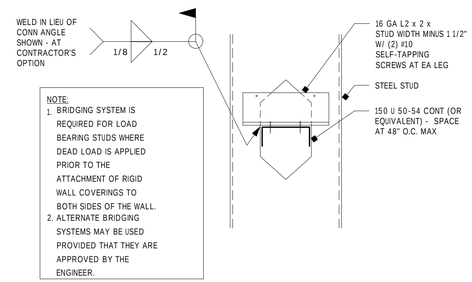
NOTES:
1) ALL SECTION CUTS ARE TYPICAL



3 TYP FRAMING ELEV
N.T.S.

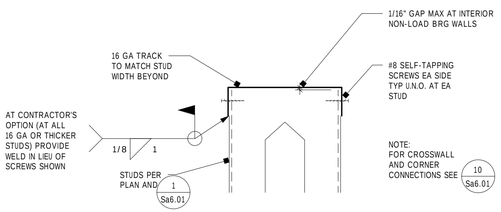


4 TYP JAMB AT OPENINGS
1" = 1'-0"

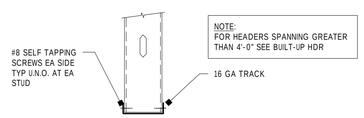


NOTE:
1. BRIDGING SYSTEM IS REQUIRED FOR LOAD BEARING STUDS WHERE DEAD LOAD IS APPLIED PRIOR TO THE ATTACHMENT OF RIGID WALL COVERINGS TO BOTH SIDES OF THE WALL.
2. ALTERNATE BRIDGING SYSTEMS MAY BE USED PROVIDED THAT THEY ARE APPROVED BY THE ENGINEER.

5 TYP WALL BRIDGING
N.T.S.

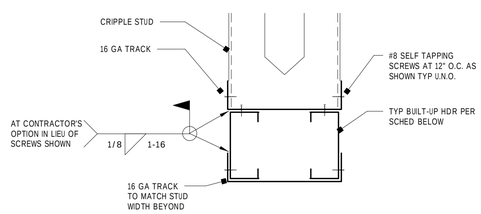


6 TYPICAL WALL SECTION
N.T.S.



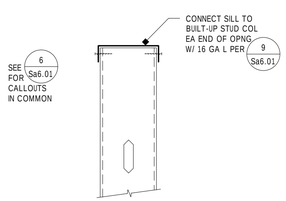
NOTE:
FOR HEADERS SPANNING GREATER THAN 4'-0" SEE BUILT-UP HDR

TYPICAL INTERIOR NON-LOAD BEARING HEADER (4'-0" OR LESS)



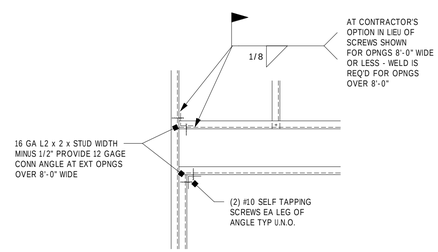
TYPICAL BUILT-UP HEADER

TYPICAL BUILT-UP STEEL HEADER	
INTERIOR OPENINGS	
SPAN	FRAMING
0'-0" TO 10'-0"	(2) 600 S 162-54 (UNPUNCHED)
10'-0" TO 16'-0"	(2) 800 S 162-54 (UNPUNCHED)
EXTERIOR OPENINGS	
SPAN	FRAMING
0'-0" TO 6'-0"	(2) 600 S 162-54 (UNPUNCHED)
6'-0" TO 10'-0"	(2) 800 S 162-54 (UNPUNCHED)
10'-0" TO 16'-0"	(2) 800 S 162-97 (UNPUNCHED)

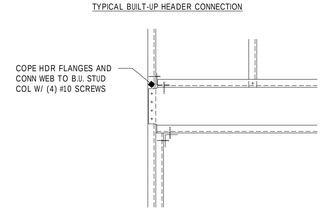


7 TYP WINDOW SILL
N.T.S

8 TYP BUILT-UP HEADER
N.T.S.

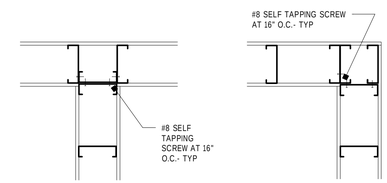


TYPICAL BUILT-UP HEADER CONNECTION



ALTERNATE BUILT-UP HEADER CONNECTION

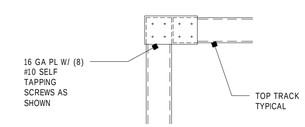
9 TYP BUILT-UP HEADER CONN
N.T.S.



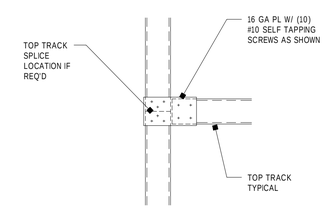
TYPICAL WALL INTERSECTION TYPICAL WALL CORNER

TYPICAL WALL END

10 TYP WALL CONN
N.T.S.



CORNER PLAN



INTERSECTION PLAN

11 TYP TOP TRACK CONN
N.T.S.

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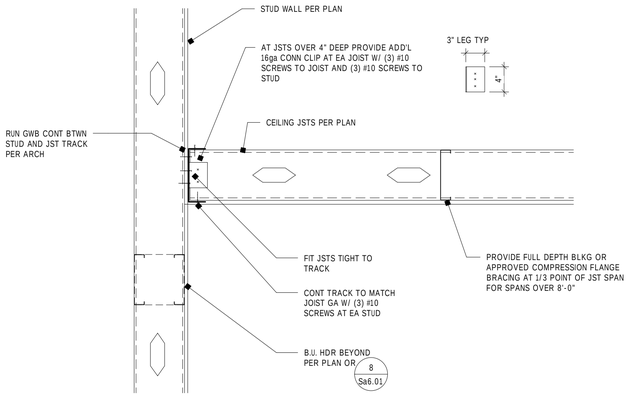
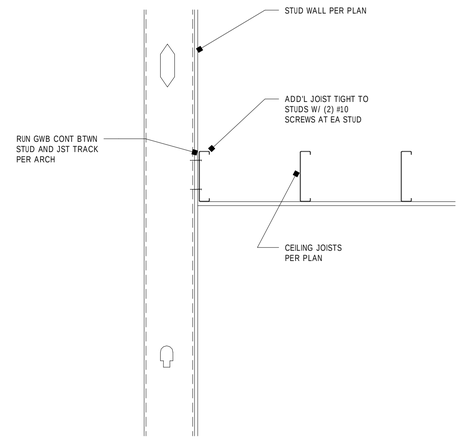


TYPICAL GYP CEILING FRAMING

CEILING JOIST SPAN	DESIGNATION/SPACING
10'-0" OR LESS	4" x 20 GAGE JOISTS AT 16" O.C. (400 S 162-33)
16'-0" OR LESS	6" x 20 GAGE JOISTS AT 16" O.C. (600 S 162-33)

NOTE:
JOIST CALLOUTS SHOWN ARE FOR LOCATIONS NOT SPECIFICALLY CALLED OUT ON PLANS

1 SECTION
1" = 1'-0" D RF 21



TYPICAL GYP CEILING FRAMING

2 SECTION
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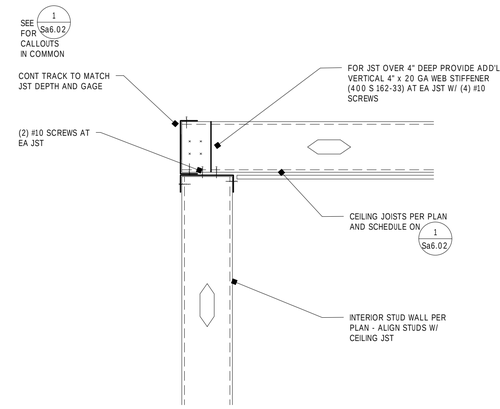
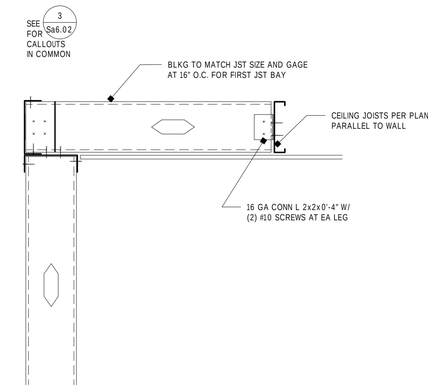


3 SECTION
1" = 1'-0" D RF 18



4 SECTION
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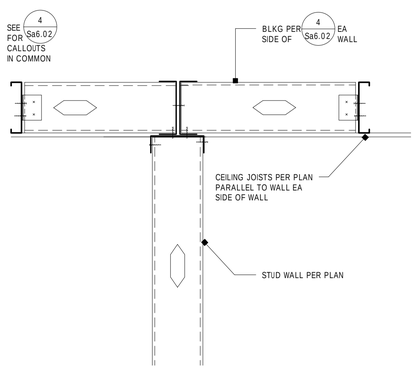

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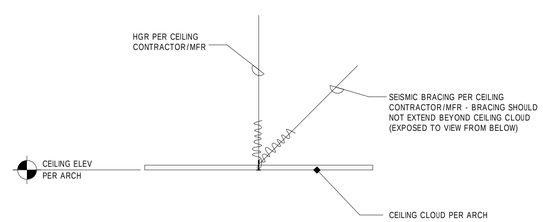

6 SECTION
1" = 1'-0" D RF 23

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Project Title
JEFFERSON TRANSIT AUTHORITY

63 FOUR CORNERS RD
PORT TOWNSEND, WASHINGTON 98368

Project Numbers
Project Number

FTA PROJECT NUMBER: WA-0180-02

Issue & Revision Dates

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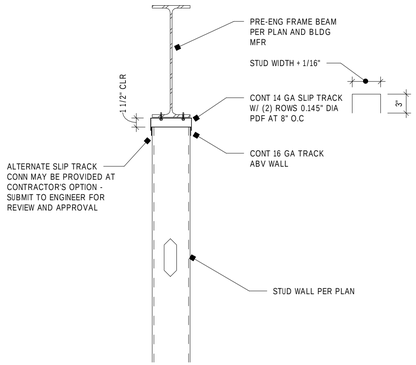

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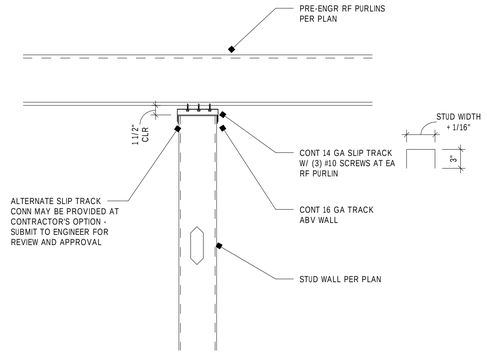

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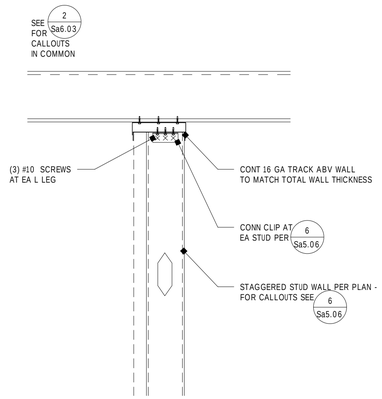

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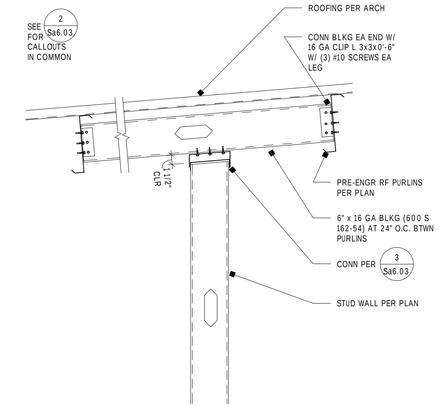

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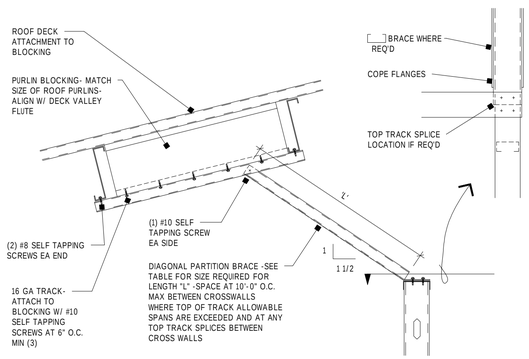
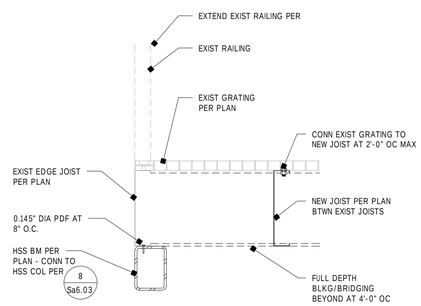


DIAGONAL PARTITION BRACES	
BRACE SIZE	"L" MAXIMUM
400 T 125-54 [50]	5'-8"
400 S 125-54 [50]	9'-6"
(2) 400 T 125-54 50 *	29'-3"

* FASTEN MEMBERS TOGETHER WITH #8 SELF TAPPING SCREWS AT 12" O.C.

5 TYP PARTITION BRACE
N.T.S.



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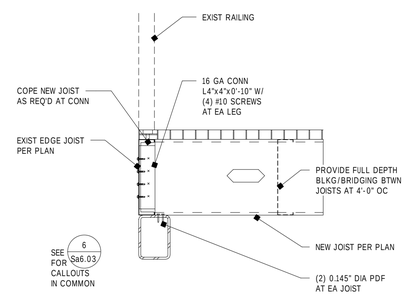

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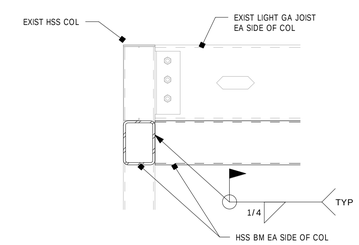

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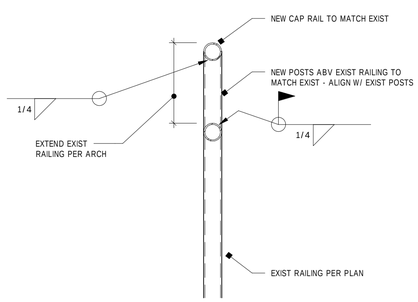

9 SECTION
1" = 1'-0" D RF 40

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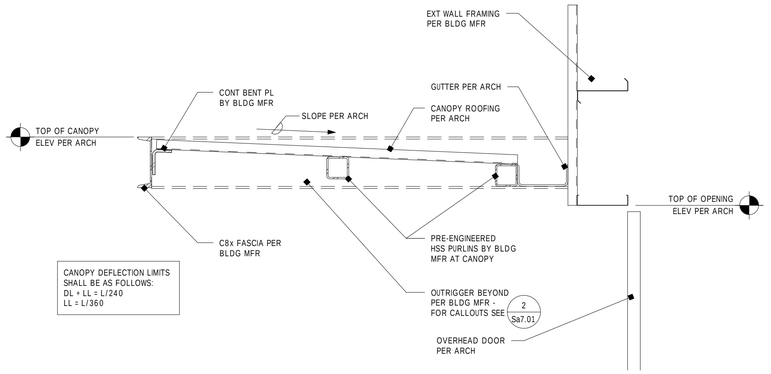

TYPICAL PRE-ENGINEERED CANOPY

1 SECTION
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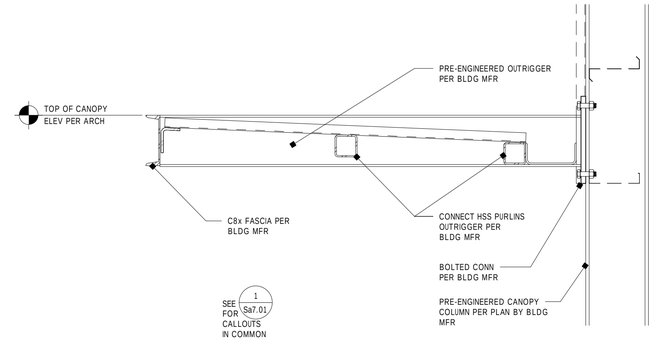

TYPICAL PRE-ENGINEERED CANOPY

2 SECTION
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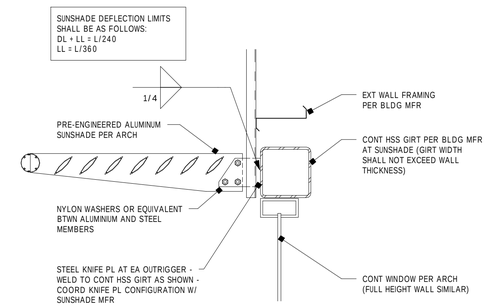

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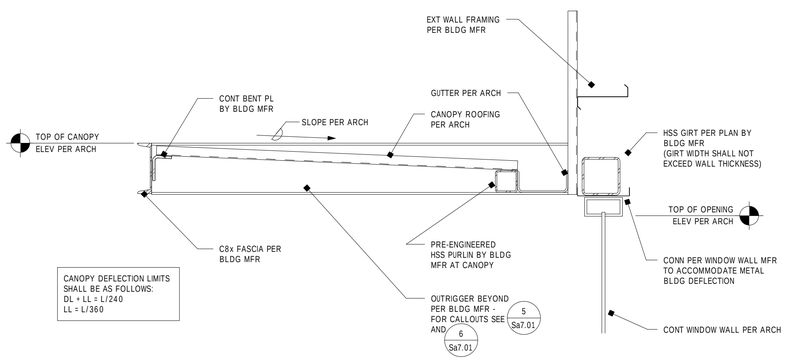
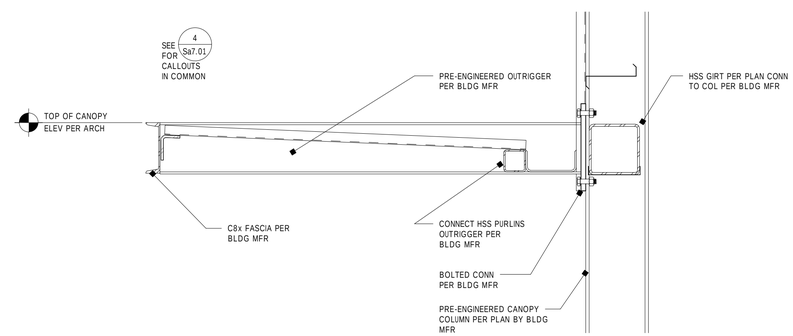


PRE-ENGINEERED CANOPY AT OFFICE

4 SECTION
1" = 1'-0" D RF 31 'A'



TYPICAL PRE-ENGINEERED CANOPY

5 SECTION
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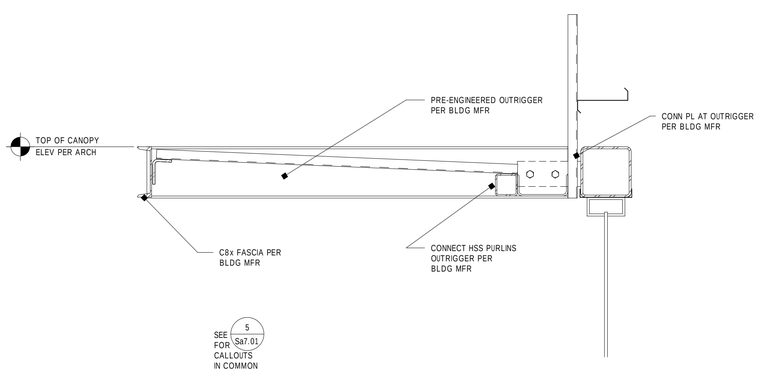
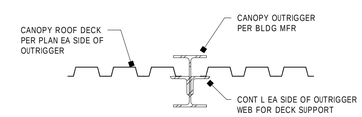
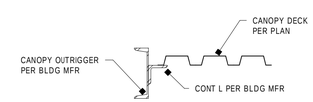


TYPICAL PRE-ENGINEERED CANOPY

6 SECTION
1" = 1'-0" D RF 33 'A'



7 SECTION
1" = 1'-0" D RF 35 'A'



8 SECTION
1" = 1'-0" D RF 36 'A'

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JEFFERSON TRANSIT

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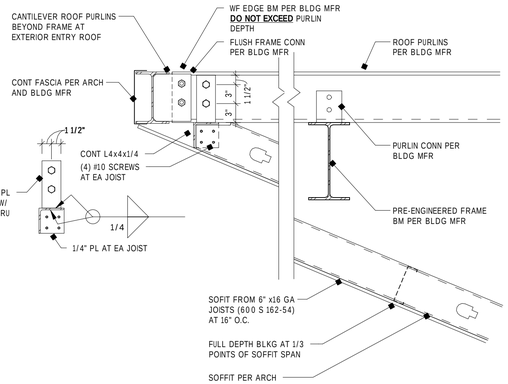

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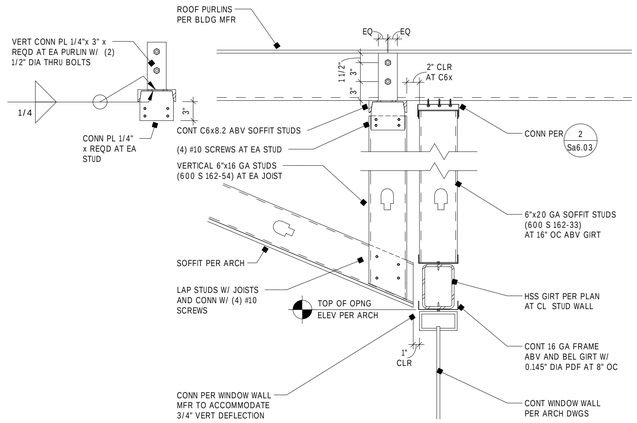

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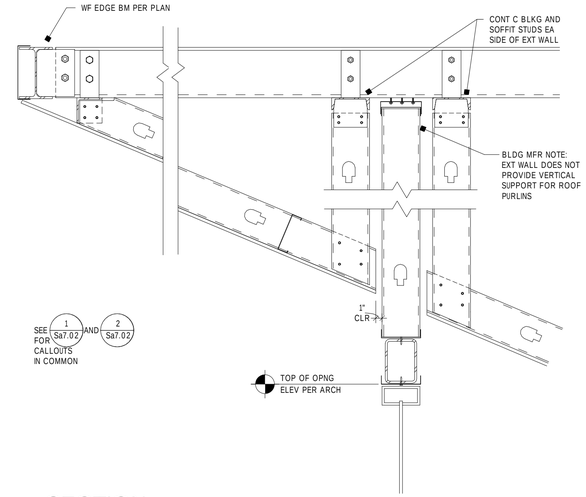

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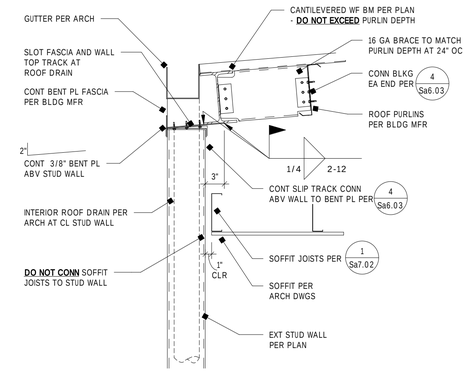

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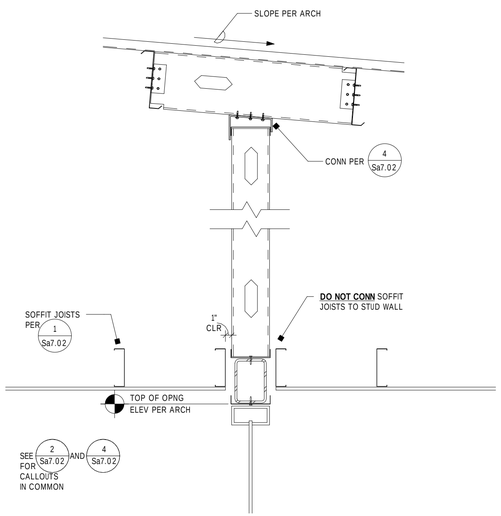

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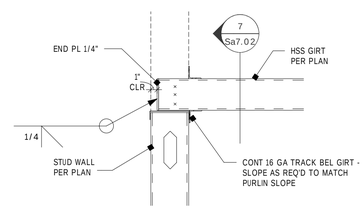

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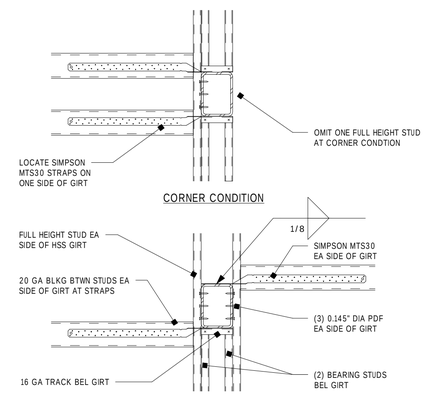

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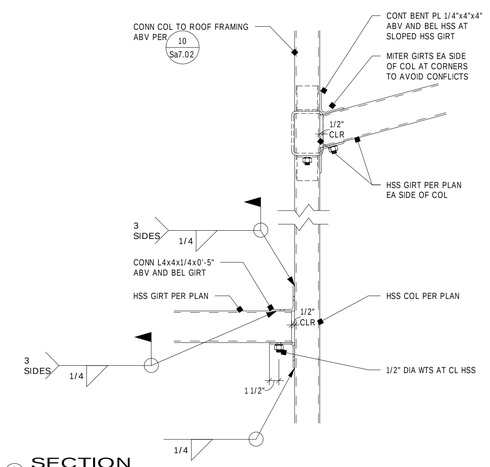

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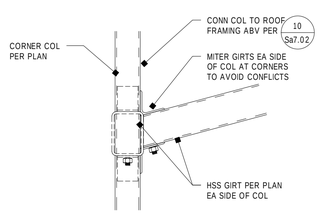

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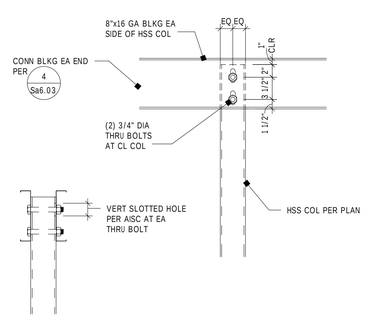

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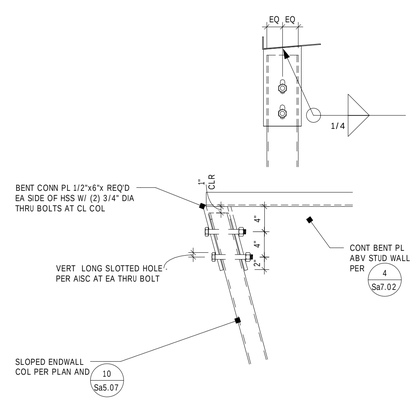

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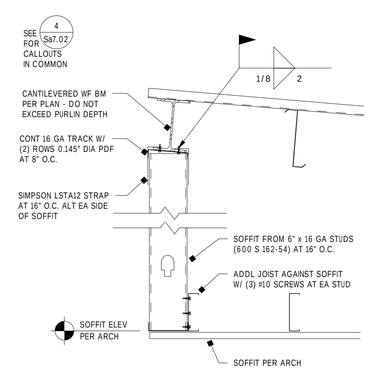

12 SECTION
1" = 1'-0" D RF 34 'A'

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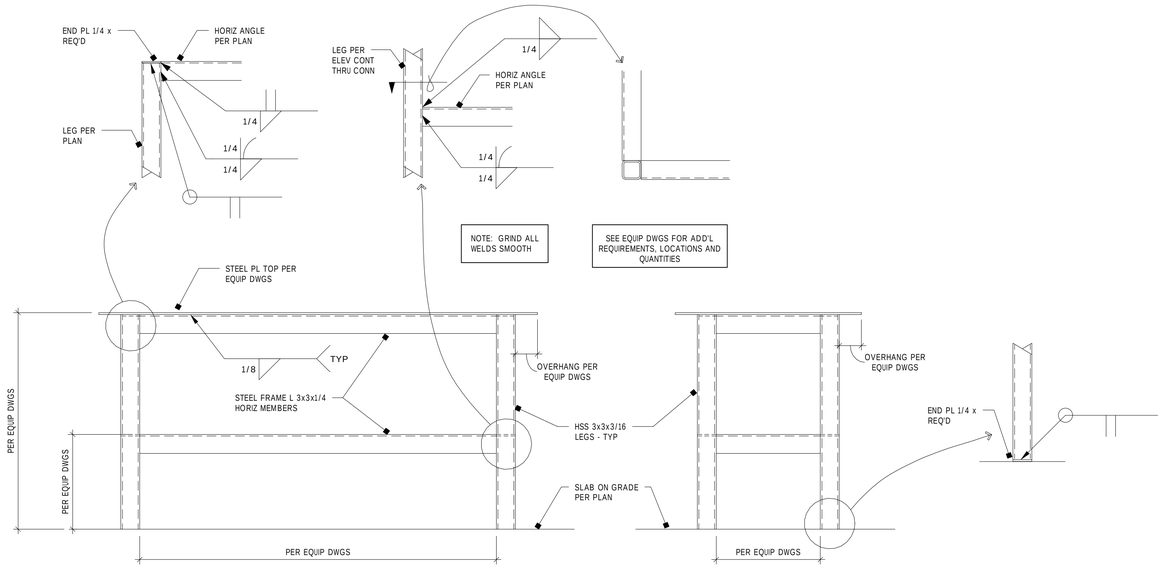

TYP STEEL WORK BENCH

1 ELEVATION
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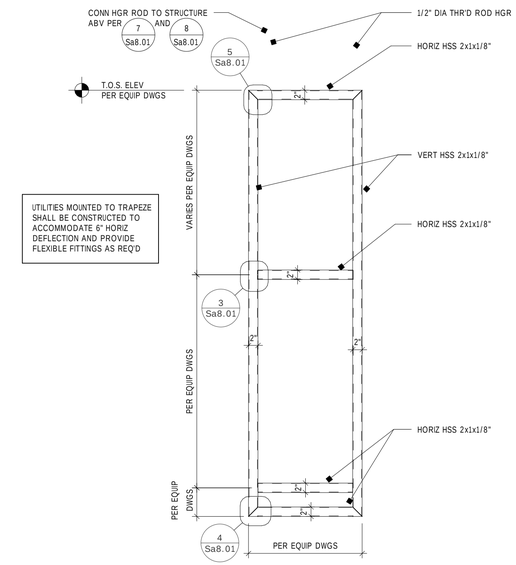
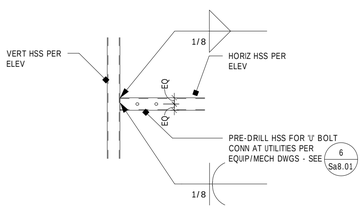


2 ELEVATION - UTILITY TRAPEZE CONSTRUCTION
3/4" = 1'-0"



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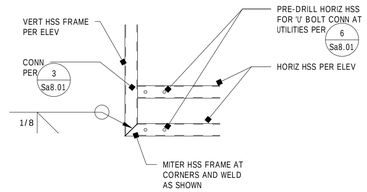

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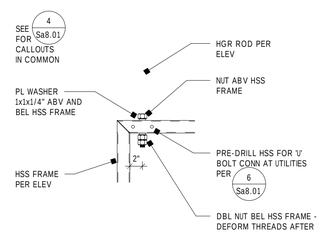

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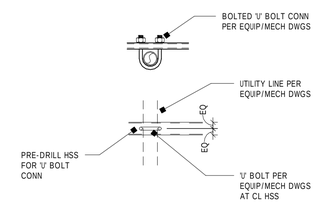

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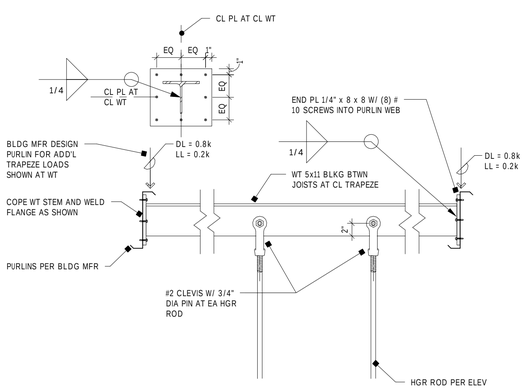
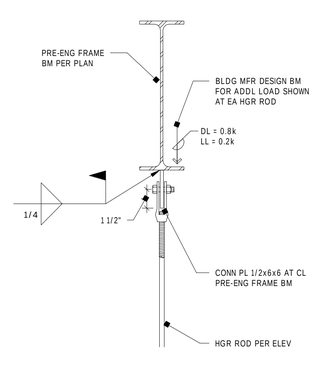


TRAPEZE PERPENDICULAR TO PURLINS

7 SECTION
1" = 1'-0" D EQ 5



TRAPEZE AT BLDG FRAME BM'S

8 SECTION
1" = 1'-0" D EQ 6

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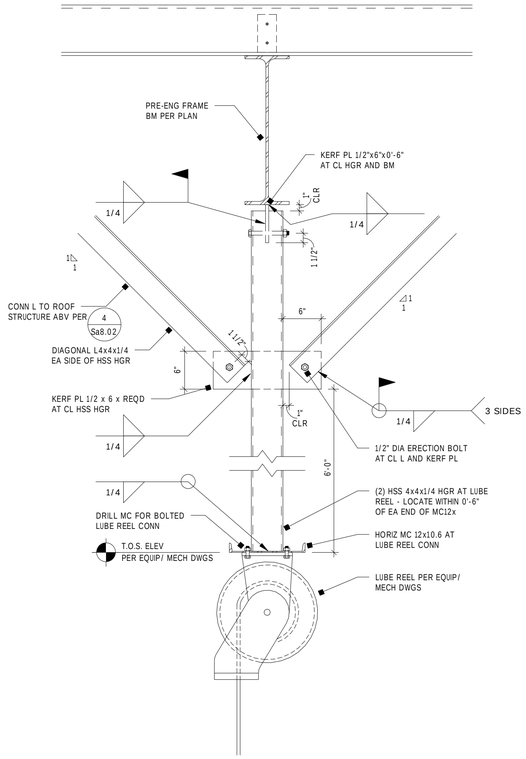
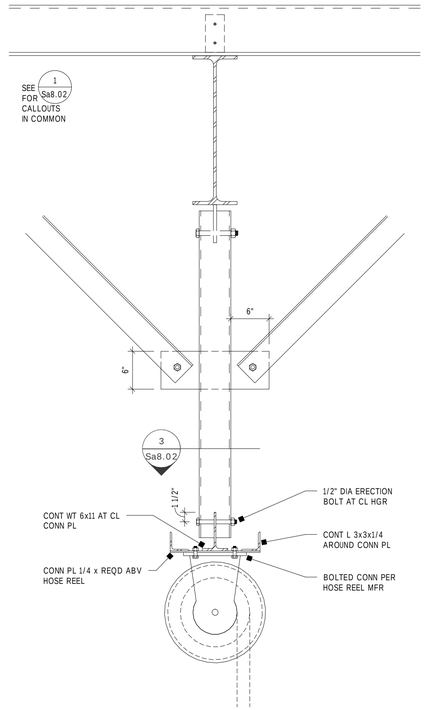


TYPICAL LUBE REEL SUPPORT

1 SECTION
1" = 1'-0" D EQ 13



TYPICAL HOSE REEL CONN

2 SECTION
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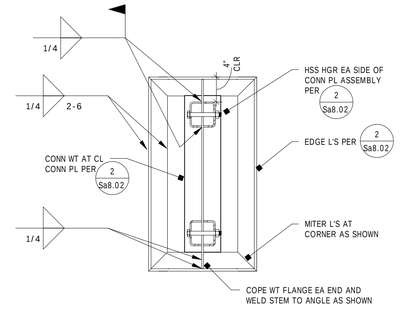
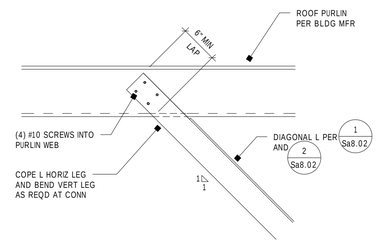


3 PLAN
1" = 1'-0" D EQ 15



4 SECTION
1" = 1'-0" D EQ 16

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EQUIPMENT DETAILS

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MECHANICAL LEGEND

HVAC

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY DUCT UP		FLEXIBLE DUCT
	SUPPLY DUCT DOWN		VOLUME DAMPER (VD)
	RETURN, RELIEF, TRANSFER, OSA DUCT UP	M	MOTORIZED DAMPER
	RETURN, RELIEF, TRANSFER, OSA DUCT DOWN		FIRE DAMPER
	EXHAUST DUCT UP		COMBINATION FIRE/SMOKE DAMPER
	EXHAUST DUCT DOWN		FLEXIBLE CONNECTION (DUCT)
	RECTANGULAR DUCT SQUARE ELBOW UP		TURNING VANES (TV)
	RECTANGULAR DUCT, RADIUS ELBOW UP		BACKDRAFT DAMPER (BD)
	RECTANGULAR DUCT, SQUARE ELBOW DOWN	T	THERMOSTAT (T'STAT)
	RECTANGULAR DUCT, RADIUS ELBOW DOWN	TG	THERMOSTAT WITH GUARD OR FLAT PLATE SEE SPECIFICATIONS
	ROUND DUCT ELBOW UP	PS	SPACE PRESSURE SENSOR
	ROUND DUCT ELBOW DOWN	C02	CARBON DIOXIDE SENSOR
	CEILING AIR TERMINAL - SQUARE	Xø	ROUND DUCT
12 X 12 CD / 300 CFM	AIR TERMINAL SIZE, TYPE & CFM	X/Xø	OVAL DUCT
X"xX"	SQUARE DUCT		

PLUMBING/HYDRONIC

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
CS	CONDENSER SUPPLY		DOMESTIC COLD WATER (CW)
CR	CONDENSER RETURN		DOMESTIC HOT WATER (HW)
	GATE VALVE (GV)		DOMESTIC HOT WATER CIRCULATING (HWC)
	GLOBE VALVE		SOIL, WASTE (S, W)
	BUTTERFLY VALVE		VENT (V), OR HIDDEN BELOW WASTE
	PRESSURE REDUCING VALVE (PRV)	R	REFRIGERANT SUCTION/LIQUID
	CHECK VALVE (CV)		WASTE OR VENT UP
	FLOW CONTROL VALVE		WALL CLEANOUT
	TEMP./PRESS. RELIEF VALVE (T&PRV)		FLUSH CLEANOUT (FCO/SCO)
	BALL VALVE		CLEAN OUT (CO)
	PIPE DOWN		IN LINE WASTE CONNECTION
	PIPE UP		P-TRAP
	BRANCH-TOP CONNECTION		BRANCH PIPE DOWN
	BRANCH-BOTTOM CONNECTION		BRANCH PIPE UP
	BRANCH-SIDE CONNECTION		TEE & UP
	FLOW DIRECTION		TEE
	FLEXIBLE CONNECTION (PIPE)		ELBOWS, 90° & 45°
	REDUCER		CAP
	STRAINER		PUMP
	UNION	T	THERMOMETER
	DRAIN VALVE	P	PRESSURE GAGE
	WALL HYDRANT		FLOOR DRAIN
A	AQUASTAT		FLOOR FUNNEL DRAIN
	TRAP PRIMER WITH ACCESS PANEL		CROSSING LINES, NON CONNECTING
	FLOOR SINK		PIPE CONTINUATION
ATF	AUTOMATIC TRANSMISSION FLUID	MC	MECHANICAL CONTRACTOR
CG	CHASSIS GREASE	EC	ELECTRICAL CONTRACTOR
EC	ENGINE COOLANT	GC	GENERAL CONTRACTOR
EO	ENGINE OIL	POC	POINT OF CONNECTION
CA	COMPRESSED AIR	BFF	BELOW FINISHED FLOOR
		AFF	ABOVE FINISHED FLOOR

23 37 00 GRILLES-REGISTERS-DIFFUSERS SCHEDULE

UNIT NO.	DESCRIPTION	MFR.	MODEL	CFM	AIR PATTERN	MOUNTING	FACE SIZE	NECK SIZE	COLOR	NOTES
2-LSS4-2	LINEAR CEILING SUPPLY DIFFUSER	TITUS	FL	PER PLANS	2 WAY	SURFACE	5 3/4" HIGH	PER PLANS	AS SELECT. BY ARCH.	(4)
CD-3	CEILING DIFFUSER	TITUS	TDC-3	PER PLANS	3 WAY	T-BAR	23 3/4" x 23 3/4"	PER PLANS	WHITE	FRAME 3
CD-4	CEILING DIFFUSER	TITUS	TDC-4	PER PLANS	4 WAY	T-BAR	23 3/4" x 23 3/4"	PER PLANS	WHITE	FRAME 3
CDH-3	CEILING DIFFUSER	TITUS	(1)	PER PLANS	3 WAY	SURFACE	NECK SIZE + 5 3/4" TOTAL	PER PLANS	WHITE	(2) FRAME 6
CDH-4	CEILING DIFFUSER	TITUS	(1)	PER PLANS	4 WAY	SURFACE	NECK SIZE + 5 3/4" TOTAL	PER PLANS	WHITE	(2) FRAME 6
DG	DOOR GRILLE	TITUS	T-700	PER PLANS	-	SURFACE	-	PER PLANS	WHITE	
EG	EXHAUST GRILLE	TITUS	50F-A	PER PLANS	-	T-BAR	NECK SIZE + 1" TOTAL	PER PLANS	WHITE	
EGH	EXHAUST GRILLE	TITUS	50F-A	PER PLANS	-	SURFACE	NECK SIZE + 1 3/4" TOTAL	PER PLANS	WHITE	(2)
HDS	HEAVY DUTY SUPPLY GRILLE	TITUS	30R	PER PLANS	-	SURFACE	NECK SIZE + 1 3/4" TOTAL	PER PLANS	AS SELECT.	
RG	RETURN/RELIEF GRILLE	TITUS	50F-A	PER PLANS	-	T-BAR	NECK SIZE + 1" TOTAL	PER PLANS	WHITE	
SDS	SIDEWALL SUPPLY DIFFUSER	TITUS	300RL	PER PLANS	DBL DEFLECTION	SURFACE	NECK SIZE + 1 3/4" TOTAL	PER PLANS	WHITE	(2) (3)
TGS	SIDEWALL TRANSFER GRILLE	TITUS	350 RL	PER PLANS	-	SURFACE	NECK SIZE + 1 3/4" TOTAL	PER PLANS	WHITE	(3)

NOTES FOR GRILLES, REGISTERS, DIFFUSERS SCHEDULE
(1) MODEL No. & AIR PATTERN SHALL BE SAME AS CD-1 THRU CD-4, EXCEPT PROVIDE FOR MOUNTING INDICATED.
(2) FURNISH WITH "OPPOSED BLADE DAMPER" (OBD). ONLY WHERE AN ACCESSIBLE DAMPER IS NOT INDICATED ON THE PLANS.
(3) FURNISH WITH HORIZONTAL FRONT BLADES.
(4) PROVIDE WITH INSULATED PLENUM BOXES.
(4) PROVIDE WITH INSULATED PLENUM BOXES.

SLOT DIFFUSER CALLOUT:
X - LSSX - X — # OF SLOTS.
LENGTH OF SLOT (FT)
SLOT WIDTH (IN)

23 81 26 OUTDOOR UNIT SPLIT SYSTEM SCHEDULE

UNIT NO.	MFR.	MODEL	LOCATION	EER (SEER)	COOLING (1) TOTAL MBH	COOLING (1) SENSIBLE @80°F	HEATING (2) MBH	HEATING (2) COP (HSPF)	WEIGHT (LBS)	ELECTRICAL DATA MCA	MOP	VOLTS	Ø	STARTER FURN. BY	DISCONNECT FURN. BY	NOTES
OCU 1	TRANE	TWA090	OUTSIDE	11.0	89.7	79.2	57.5	2.6	395	34.4	45	208	3	MFR	EC	
OCU 2	TRANE	TWA090	OUTSIDE	11.0	91.2	84.4	57.7	2.5	395	34.4	45	208	3	MFR	EC	
OCU 3	ENVIROMASTER	S1CV4D	OUTSIDE	(17.0)	24	0			108	17.5	30	208	1	MFR	EC	(3)

NOTES FOR OUTDOOR UNIT SPLIT SYSTEM SCHEDULE
(1) COOLING CAPACITY MBH @ 95°F O.D.D.B. & 67°F W.B., 80°F D.B. INDOOR.
(2) HEATING CAPACITY MBH @ 16°F E.A.T., 70°F INDOOR.
(3) PROVIDE SINGLE POINT POWER CONNECTION. PROVIDE POWER TRANSFORMERS AS NECESSARY.

22 33 00 ELECTRIC WATER HEATER SCHEDULE

UNIT NO.	MFR.	MODEL	LOCATION	AREA SERVED	TANK SIZE (GAL)	INPUT KW	RECOVERY (GPH) @ 100°F RISE	WET WEIGHT (LBS)	ELECTRICAL FLA	VOLTS	ø	STARTER FURN. BY	DISCONNECT FURN. BY	NOTES
HWT 1	AO SMITH	DEN-120	UTILITY ROOM A138	BUILDING A	119	5	20	1310	24	208	2	MFR	EC	(1) (2)

NOTES FOR ELECTRIC WATER HEATER SCHEDULE
(1) STORAGE TEMP @ 120ºF
(2) HEATING ELEMENTS TO BE NON-SIMULTANIOUS OPERTATION ONLY.

23 82 39 ELECTRIC UNIT HEATER SCHEDULE

UNIT NO.	MFR.	MODEL	LOCATION	ELECTRICAL (KW)	VOLTS	ø	NOTES
UH 1	TRANE	UHEC403	MAINTENANCE BAY 1 A128	40	208	3	(1)
UH 2	TRANE	UHEC503	MAINTENANCE BAY 2 A129	50	208	3	(1)
UH 3	TRANE	UHEC051	COMMON WORK A135	5	208	1	(1)
UH 4	TRANE	UHEC102	PARTS ROOM A130	10	208	1	(1)

NOTES FOR ELECTRIC UNIT HEATER SCHEDULE
(1) STARTER TO BE PROVIDED MY MANUFACTURER. EC TO PROVIDE DISCONNECT.

23 82 39 ELECTRIC WALL HEATER SCHEDULE

UNIT NO.	MFR.	MODEL	LOCATION	ELECTRICAL WATTS	VOLTS	ø	NOTES
EWH 1	KING	PAW1205	UTILITY ROOM A138	500	120	1	(1) (2)

NOTES FOR ELECTRIC WALL HEATER SCHEDULE
(1) PROVIDE WITH SINGLE POLE THERMOSTAT KIT.
(2) SET TEMPERATURE TO 45°F.

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BUILDING A MECHANICAL LEGEND AND SCHEDULES

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23 81 26 INDOOR UNIT SPLIT SYSTEM SCHEDULE

UNIT NO.	MFR.	MODEL	LOCATION	AREA SERVED	BLOWER CFM	BLOWER ECONOMIZER	BLOWER MIN. OSA	BLOWER EXT. SP.	BLOWER RPM	FAN BHP	AUX. ELEC. HEAT KW	WEIGHT (LBS)	FILTERS	ELECTRICAL DATA MCA	ELECTRICAL DATA MOP	ELECTRICAL DATA VOLTS	ELECTRICAL DATA Ø	STARTER FURN. BY	DISCONNECT FURN. BY	DUCT SMOKE DETECTOR FURN. BY	NOTES
ICU 1	TRANE	TWA090	MEZZ.	BOARD RM / WEST	2810	YES	640	1.00	1036	0	25	360	2"	72.3	80	208	3	MFR	EC	EC	(1) (2) (3)
ICU 2	TRANE	TWA090	MEZZ	COMMONS / EAST	3325	YES	660	1.00	1073	0	25	360	2"	76.7	80	208	3	MFR	EC	EC	(1) (2) (3)
ICU 3	ENVIROMASTER	WLHV240	IT ROOM	IT ROOM	750					0		67	-	0.7	15	208	1	MFR	EC	-	(1) (2)

NOTES FOR INDOOR UNIT SPLIT SYSTEM SCHEDULE

(1) PROVIDE UNIT WITH A SINGLE POINT POWER CONNECTION. PROVIDE ALL POWER TRANSFORMERS AS NECESSARY.

(2) PROVIDE UNIT WITH CONDENSATE PUMP.

(3) UNITS OVER 2000 CFM SHALL INCLUDE SMOKE DETECTOR. DETECTOR TO BE PROVIDED BY EC, INSTALLED BY MC, AND WIRED BY EC. MC TO COORDINATE SMOKE DETECTOR LOCATION WITH EC PRIOR TO INSTALLATION.

22 40 00 WATER CLOSETS AND URINALS

UNIT NO.	FIXTURE	MOUNTING	W	V	HW	CW	GPM (GPF)	FIXTURE MFR.	FIXTURE MODEL	FLUSH VALVE MFR.	FLUSH VALVE MODEL	SEAT MFR.	SEAT MODEL	NOTES
P-1	WATER CLOSET	FLOOR	4"	2"		1"	(1.28)	AMERICAN STANDARD	MADERA 3451.712	SLOAN	OPTIMA 8111	CHURCH	9500CT	PROVIDE BOLT CAPS.
P-1A	WATER CLOSET ADA	FLOOR	4"	2"		1"	(1.28)	AMERICAN STANDARD	MADERA 3451.712	SLOAN	OPTIMA 8111	CHURCH	9500CT	ADA COMPLIANT, SEAT MUST BE 17" HIGH MINIMUM, PROVIDE BOLT CAPS.
P-2	URINAL ADA	WALL	2"	1 1/2"		3/4"	(0.125)	AMERICAN STANDARD	WASHBROOK 6590.001	SLOAN	OPTIMA 8186	N/A	N/A	ADA COMPLIANT. URINAL RIM TO BE 16" ABOVE FINISHED FLOOR.

22 40 00 LAVATORIES AND SINKS

UNIT NO.	FIXTURE	MOUNTING	W	V	HW	CW	GPM	FIXTURE MFR.	FIXTURE MODEL	FITTINGS MFR.	FITTINGS MODEL	SUPPLIES MFR.	SUPPLIES MODEL	TRAP MFR.	TRAP MODEL	WASTE MFR.	WASTE MODEL	NOTES
P-3	LAVATORY	UNDER MOUNT	2"	1 1/2"	1/2"	1/2"	0.5	KOHLER	K-2330	SLOAN	SF-2300	EBC	LAH16-KC	DEARBORN BRASS	17GA	N/A	N/A	SET MAXIMUM HOT WATER DELIVERY TEMPERATURE TO 105°F. PROVIDE WITH 6VDC PLUG-IN ADAPTER POWERED WITH BATTERY BACKUP.
P-4	SERVICE SINK	FLOOR	3"	2"	3/4"	3/4"	2.5	FLORESTONE	MSR-2424	CHICAGO	897-CP					FLORESTONE	MR-375	MOUNT FITTINGS AT 42" A.F.F. PROVIDE 48" HOSE AND CLAMP. PROVIDE WITH WEDGE-LOK SEAL.
P-4A	UTILITY SINK	FLOOR	2"	1 1/2"	1/2"	1/2"	2.0	JUST	NSFB-130	CHICAGO	445-DJ13-3 17XKABCP	EBC	LAH16-KC	EBC	TS150			PROVIDE WITH VACUUM BREAKER AND BUCKET HOOK.
P-5	KITCHEN SINK DOUBLE COMPARTMENT	COUNTER	2"	1 1/2"	1/2"	1/2"	2.2	JUST	DL-2133-A-GR	CHICAGO	201-A1000 0ABCP	EBC	LAH16-KC	EBC	TS150	JUST	(2) J-35	PROVIDE WITH EBC WE150, LENGTH AS REQUIRED
P-5A	KITCHEN SINK SINGLE COMPARTMENT	COUNTER	2"	1 1/2"	1/2"	1/2"	0.0	JUST	SL-2125-A-GR	CHICAGO	201-A1000 0ABCP	EBC	LAH16-KC	EBC	TS150	JUST	J-35	

22 40 00 DRINKING FOUNTAINS AND WATER COOLERS

UNIT NO.	FIXTURE	MOUNTING	W	V	HW	CW	GPM	FIXTURE MFR.	FIXTURE MODEL	NOTES
P-6	TWO-LEVEL ADA DRINKING FOUNTAIN	WALL	2"	1 1/2"		1/2"	0.5	ELKAY	VRCTL8SC	BARRIER FREE, DUAL HEIGHT. FURNISH WITH TRAP, SERVICE SUPPLY STOP AND SUPPORT SYSTEM.
P-6A	FLOOR MOUNTED DRINKING FOUNTAIN	FLOOR	2"	1 1/2"		1/2"	0.5	ELKAY	EFA4 STAINLESS STEEL	MOUNT FITTINGS AT 42"A.F.F., PROVIDE 48" HOSE AND CLAMP. PROVIDE WITH WEDGE-LOK SEAL.

22 40 00 SHOWER RECEPTORS AND BASINS

UNIT NO.	FIXTURE	MOUNTING	W	V	HW	CW	GPM	STALL MFR.	STALL MODEL	CONTROLS MFR.	CONTROLS MODEL	NOTES
P-7	SHOWER ADA	WALL	2"	1 1/2"	1/2"	1/2"	2.5	N/A	N/A	SYMMONS	96-1-150	PROVIDE WITH 2" SHOWER DRAIN. THERMOSTATIC MIXING VALVE TO LIMIT HW TO 110ºF

22 40 00 EMERGENCY FIXTURES

UNIT NO.	FIXTURE	MOUNTING	W	V	HW	CW	MFR.	MODEL	NOTES
P-8	EMERGENCY EYEWASH / SHOWER COMBO	FLOOR				1 1/4"	HAWS	8309WC	BARRIER FREE, PROVIDE WITH EMERGENCY THERMOSTATIC MIXING VALVE, HAWS 9201H. 1-1/4" OUTLET.

22 40 00 DRAINS AND FLOOR SINKS

UNIT NO.	FIXTURE	MOUNTING	W	V	HW	CW	MFR.	MODEL	NOTES
P-9	TRENCH DRAIN	FLOOR	4"	0"			ZURN	2886	PROVIDE CLASS C REINFORCED GRATE

22 40 00 MISC FIXTURES

UNIT NO.	FIXTURE	MOUNTING	W	V	HW	CW	MFR.	MODEL	NOTES
P-10	WALL HYDRANT	WALL				3/4"	VR SMITH	5509QT	1/4 TURN, WALL BOXED.
P-11	APPLIANCE CONNECTION	WALL				1/2"	IPS	FR-12	PROVIDE WITH INTEGRAL SHOCK ARRESTORS.

22 11 23 PUMPS SCHEDULE

UNIT NO.	MFR.	MODEL	LOCATION	MOTOR RPM	HEAD (FT)	FLOW (GPM)	ELECTRICAL FLA	ELECTRICAL VOLTS	ELECTRICAL Ø	STARTER FURN. BY	DISCONNECT FURN. BY	NOTES
CP 1	ARMSTRONG	E7B	UTILITY ROOM A138	3400	18	7	2.0	120	1	(1)	(1)	(2)
SMP 1	SULZER	EF 04W	SITE	3450	10	20	9.1	115	1	(1)	(1)	

NOTES FOR PUMPS SCHEDULE

(1) E.C. TO PROVIDE A MANUAL STARTER (INCLUDING DISCONNECT).

(2) M.C. TO PROVIDE AND WIRE RECIRC. AQUASTAT WITH TIMER. SETPOINT SHALL BE 100ºF. M.C. TO INSTALL.

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23 34 23 VEHICLE EXHAUST FAN SCHEDULE

UNIT NO.	MFR.	MODEL	AREA SERVED	MOTOR HP	PERFORMANCE CFM	PERFORMANCE EX. S.P.	PERFORMANCE RPM	DRIVE TYPE	CONTROLLED BY OR INTERLOCKED WITH	ELECTRICAL VOLTS	ELECTRICAL Ø	STARTER FURN. BY	DISCONNECT FURN. BY	NOTES
VEF 1	CAR-MON	DXI12A0	MAINTENANCE BAY 1	3	900	0.50	1500	DIRECT	VER 1	208	3	MFR	EC	(1) (2) (3)
VEF 2	CAR-MON	DXI12A0	MAINTENANCE BAY 2	3	900	0.50	1500	DIRECT	VER 2	208	3	MFR	EC	(1) (2) (3)

NOTES FOR VEHICLE EXHAUST FAN SCHEDULE

(1) SEE VEHICLE EXHAUST REEL SCHEDULE ON THIS SHEET FOR ASSOCIATED VEHICLE EXHAUST REEL.

(2) PROVIDE WITH REMOTE MOUNTED STAND ALONE CONTROLS FOR OPERATION OF FAN AND REEL. CONTROLS SHALL BE CAPABLE OF UP/DOWN OPERATION OF HOSE REEL AND ON/OFF OPERATION OF FAN.

(3) OSA DAMPER SHALL OPEN WHEN EXHAUST FAN IS TURNED ON.

VEHICLE EXHAUST REEL SCHEDULE

UNIT NO.	MFR.	MODEL	LOCATION	DUCT DIAMETER	DUCT LENGTH	MOTOR HP	CONTROLLED BY OR INTERLOCKED WITH	ELECTRICAL VOLTS	ELECTRICAL Ø	WEIGHT (LBS)	NOTES
VER 1	CAR-MON	TRS-P54	MAINTENANCE BAY 1	5	50' - 0"	0.33	VEF 1	115	1	0	(1) (2) (3)
VER 2	CAR-MON	TRS-P60	MAINTENANCE BAY 2	7	40' - 0"	0.33	VEF 2	115	1	0	(1) (2) (3)

NOTES FOR VEHICLE EXHAUST FAN SCHEDULE

(1) SEE VEHICLE EXHAUST FAN SCHEDULE ON THIS SHEET FOR ASSOCIATED VEHICLE EXHAUST FAN.

(2) PROVIDE WITH REMOTE MOUNTED STAND ALONE CONTROLS FOR OPERATION OF FAN AND REEL. CONTROLS SHALL BE CAPABLE OF UP/DOWN OPERATION OF HOSE REEL AND ON/OFF OPERATION OF FAN.

(3) PROVIDE WITH CLAMPING ADAPTER. PROVIDE WITH BUS ADAPTER AS NEEDED.

23 34 23 EXHAUST FAN SCHEDULE

UNIT NO.	MFR.	MODEL	CONFIGURATION	AREA SERVED	MOTOR DATA HP	MOTOR DATA WATTS	PERFORMANCE CFM	PERFORMANCE EX. S.P.	PERFORMANCE RPM	BACKDRAFT DAMPER	SPEED CONTROL	DRIVE TYPE	CONTROLLED BY OR INTERLOCKED WITH	ELECTRICAL VOLTS	ELECTRICAL Ø	STARTER FURN. BY	DISCONNECT FURN. BY	NOTES
EF 1	AMERICAN FAN CO.	31JM	INLINE	ADMIN	1		1000	0.60	3500	Y	-	DIRECT	SCHEDULE	208	3	EC	EC	(1)
EF 2	COOK	GC162	CEILING	TOILET 133	0	70	100	0.35	1200	Y	-	DIRECT	LIGHT SWITCH	120	1	(2)	(2)	(1)
EF 3	AMERICAN FAN CO.	31JM	INLINE	LUBE/FACILITIES SHOP	1		750	0.30	3500	Y	-	DIRECT	UH-4	208	3	EC	EC	(1)
EF 4	COOK	16XP36D132	WALL	MAINT. BAY 1	0.75		2550	0.20	1174	Y	-	DIRECT	SCHEDULE	120	1	(2)	(2)	(1)
EF 5	COOK	16XP36D132	WALL	MAINT. BAY 2	0.75		2550	0.20	1174	Y	-	DIRECT	SCHEDULE	120	1	(2)	(2)	(1)

NOTES FOR EXHAUST FAN SCHEDULE

(1) ALL EXHAUST FANS TO BE WIRED FROM MOTOR TO BOX ON EXTERIOR OF FAN ENCLOSURE.

(2) E.C. TO PROVIDE MANUAL STARTER (INCLUDING DISCONNECT).

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2/5/2014

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Project Title
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Project Numbers
2013-006

FTA PROJECT NUMBER: WA-0180-02

Issue & Revision Dates

08 08 13	100% SD
11 04 13	100% DD
12 30 13	AGENCY SET
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Sheet Title
BUILDING A MECHANICAL SCHEDULES

Drawn By: **SKB**
Checked By: **CAC**

Sheet Number

Ma0.03

Sheet Number **100** Of **203**

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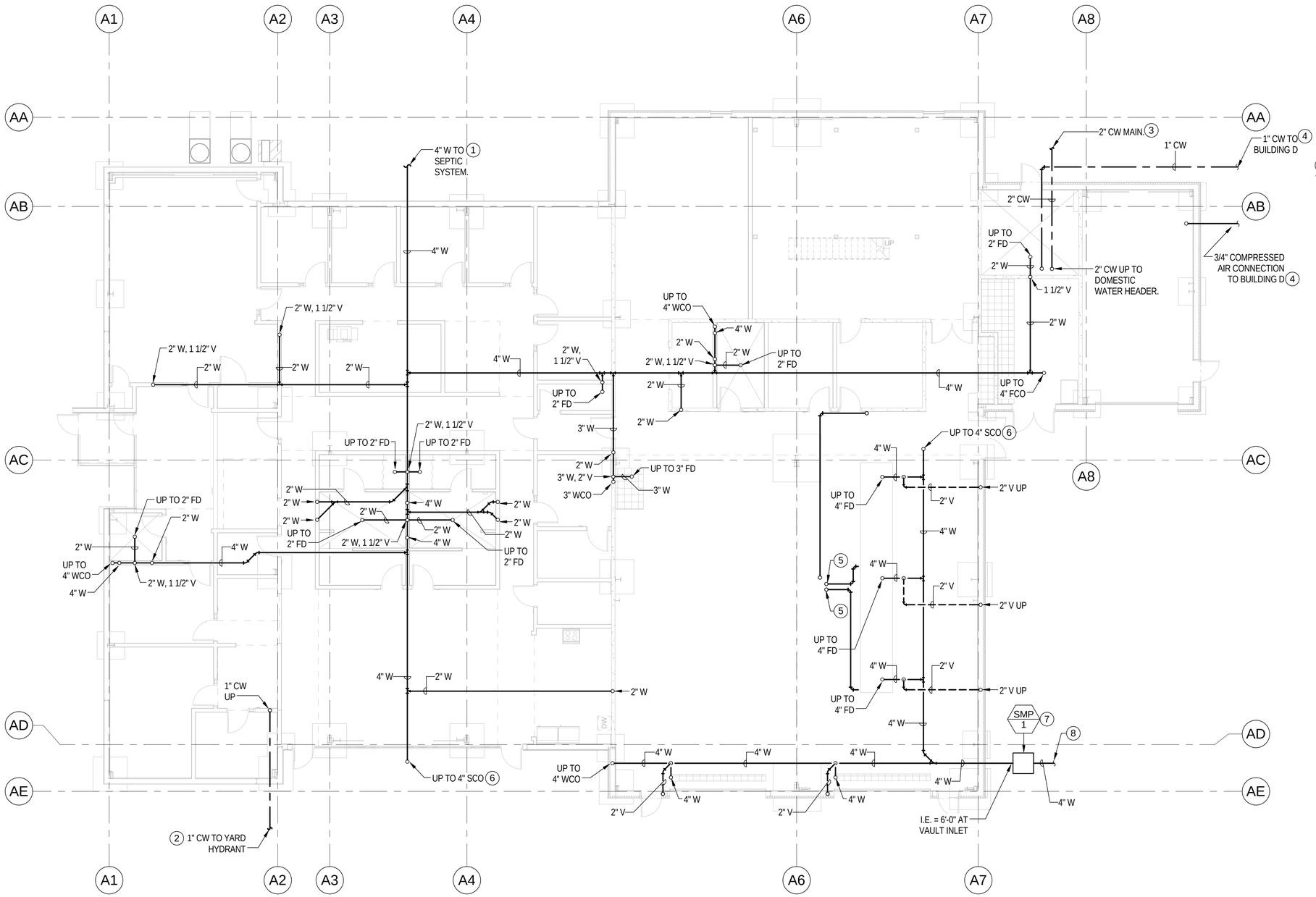

1 BUILDING A UNDERGROUND PLUMBING PLAN

1/8" = 1'-0"

N

GENERAL NOTES

1 PIPING AND FITTINGS ARE SHOWN OFFSET FOR CLARITY. ROUTE PIPING AS CLOSE TO THE PLANS AS THE BUILDING CONDITIONS PERMIT. PIPE ROUTING MAY REQUIRE ADJUSTMENTS TO FACILITATE INSTALLATION. COORDINATE WITH ALL TRADES PRIOR TO INSTALLATION.

2 ALL WASTE PIPES TO BE SLOPED @ 1/4" PER FOOT. VENT AND CONDENSATE PIPES TO BE SLOPED @ 1/8" PER FOOT.

CONSTRUCTION NOTES

#	
1	I.E. = 4'-11". SEE CIVIL DRAWINGS FOR CONTINUATION.
2	I.E. = 3'-0". SEE CIVIL DRAWINGS FOR CONTINUATION.
3	SEE CIVIL DRAWINGS FOR CONTINUATION.
4	SEE SHEET Md2.01 FOR CONTINUATION.
5	3/4" COMPRESSED AIR CONNECTIONS FROM ECO-60 LIFT CONTROL STATION TO ECO-60 LIFT SUMP. CONFIRM CONNECTION SIZES & LOCATIONS W/ MANUFACTURER PRIOR TO INSTALLATION.
6	SEE DETAIL 2 ON SHEET Ma5.01.
7	PUMP VAULT W/ SUBMERSIBLE PUMP (SMP 1), SEE DETAIL 8 ON SHEET Ma5.02.
8	4" WASTE TO WASH TENT SUMP.

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Sheet Title
BUILDING A UNDERGROUND PLUMBING PLAN

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Sheet Number
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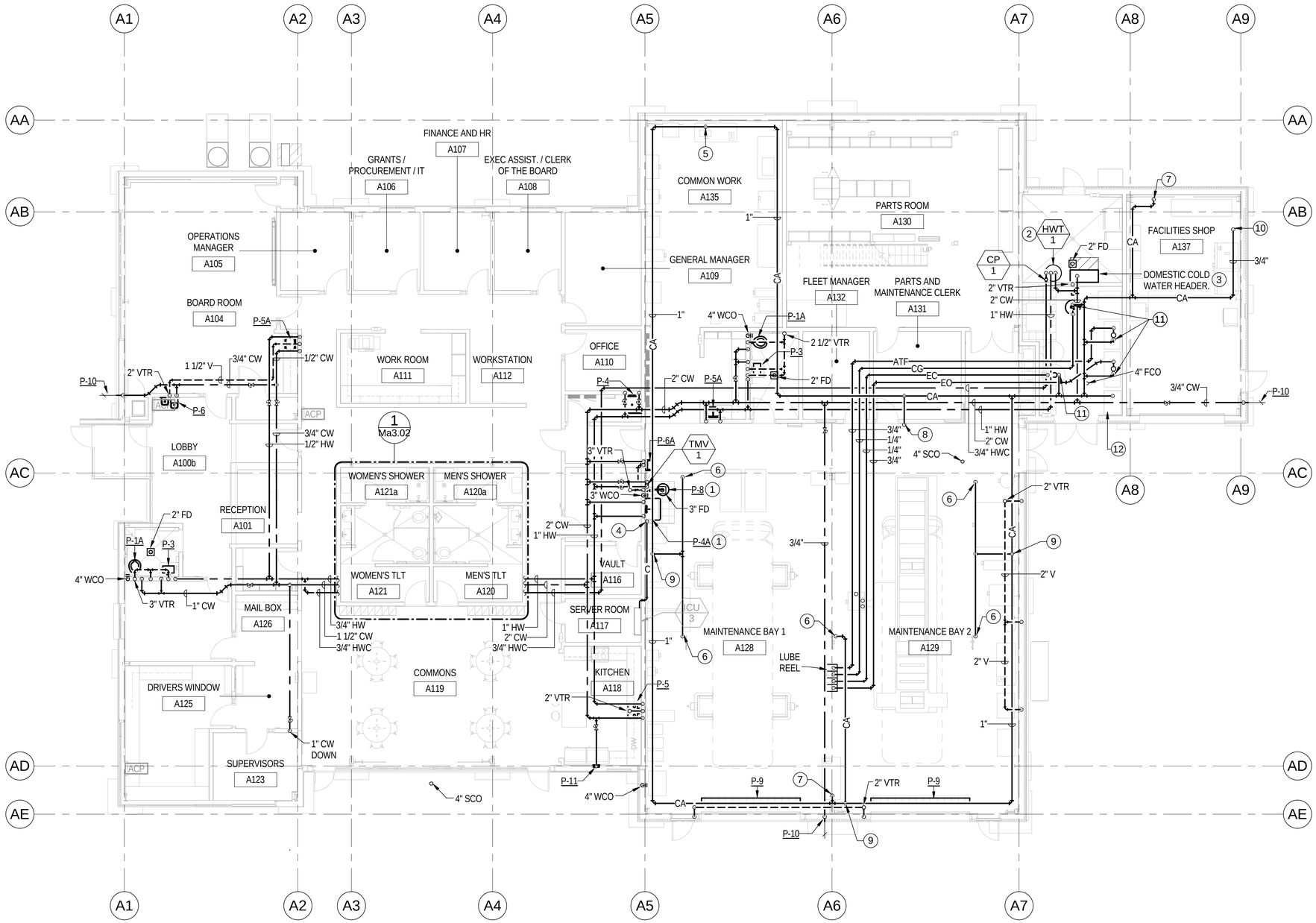

1 BUILDING A PLUMBING PLAN

1/8" = 1'-0"

N

GENERAL NOTES

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2 ALL WASTE PIPES TO BE SLOPED @ 1/4" PER FOOT. CONDENSATE PIPES TO BE SLOPED @ 1/8" PER FOOT.

CONSTRUCTION NOTES

1 TERMINATE WASTE INTO ADJACENT FLOOR DRAIN.

2 SEE SHEET Ma5.01 FOR HOT WATER PIPING DIAGRAM.

3 SEE SHEET Ma5.01 FOR DOMESTIC WATER HEADER DETAIL.

4 ROUTE CONDENSATE FLUSH WITH WALL. TERMINATE 4" ABOVE SUMP WITH DOWNTURNED ELBOW.

5 PROVIDE COMPRESSED AIR DISCONNECT AT THIS LOCATION 48" AFF. 3/8" AND 1/2" W/ FILTER, REGULATOR, AND LUBRICATOR. SEE DETAIL ON SHEET Ma5.02 FOR CLARIFICATION.

6 PROVIDE COMPRESSED AIR DISCONNECT TO EQUIPMENT NO. 8190 AT THIS LOCATION, 3/4" AND 1/2". SEE Q SHEETS FOR EQUIPMENT LOCATION.

7 PROVIDE COMPRESSED AIR DISCONNECT AT THIS LOCATION 48" AFF. 3/8" W/ FILTER, REGULATOR, AND LUBRICATOR. SEE DETAIL ON SHEET Ma5.02 FOR CLARIFICATION.

8 3/4" COMPRESSED AIR CONNECTION DOWN TO FILTER REGULATOR. CONNECTION TO BE ROUTED BELOW GRADE IN SAME TRENCH AS ELECTRICAL CONDUIT TO ECO-60 LIFT CONTROL STATION.

9 PROVIDE COMPRESSED AIR DROP AT THIS LOCATION TO FILTER /REGULATOR PER DETAIL 3 ON SHEET Ma5.02.

10 3/4" COMPRESSED AIR CONNECTION DOWN. TO BE ROUTED BELOW GRADE TO WASH EQUIPMENT BUILDING. SEE SHEET Ma2.01 FOR CONTINUATION.

11 CONNECT COMPRESSED AIR TO LUBE TANK EQUIPMENT. SEE LUBE ROOM INSTALLATION DETAIL ON SHEET Ma5.01.

12 EXISTING COMPRESSOR TO BE OFCI. PROVIDE NEW MAIN PRESSURE REGULATOR AND SET TO 125 PSI.

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Sheet Title
BUILDING A PLUMBING PLAN

Drawn By **CB**
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Sheet Number
Ma3.01

Sheet Number 102 Of 203

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GENERAL NOTES

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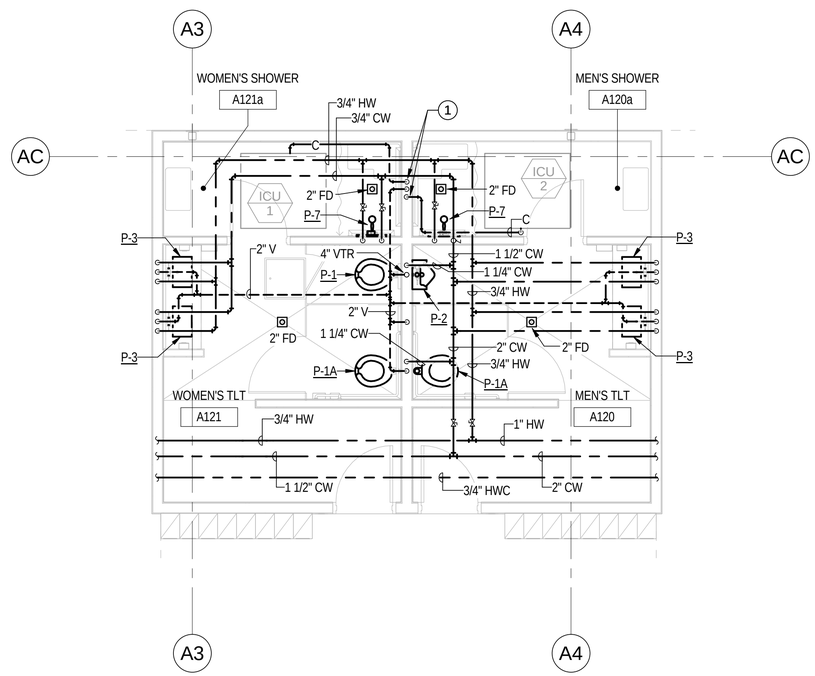
2 ALL WASTE PIPES TO BE SLOPED @ 1/4" PER FOOT. CONDENSATE PIPES TO BE SLOPED @ 1/8" PER FOOT.

CONSTRUCTION NOTES

1 ROUTE 1" CONDENSATE PIPING DOWN WITHIN WALL CAVITY. PENETRATE SHOWER WALL WITH STAINLESS STEEL PIPING, AND TERMINATE 4" A.F.F. WITH DOWNTURNED ELBOW.



1 ENLARGED PLUMBING PLAN - RESTROOMS A120 & A121

1/4" = 1'-0"

N

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Sheet Title
BUILDING A ENLARGED PLUMBING PLANS.

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Sheet Number

Ma3.02

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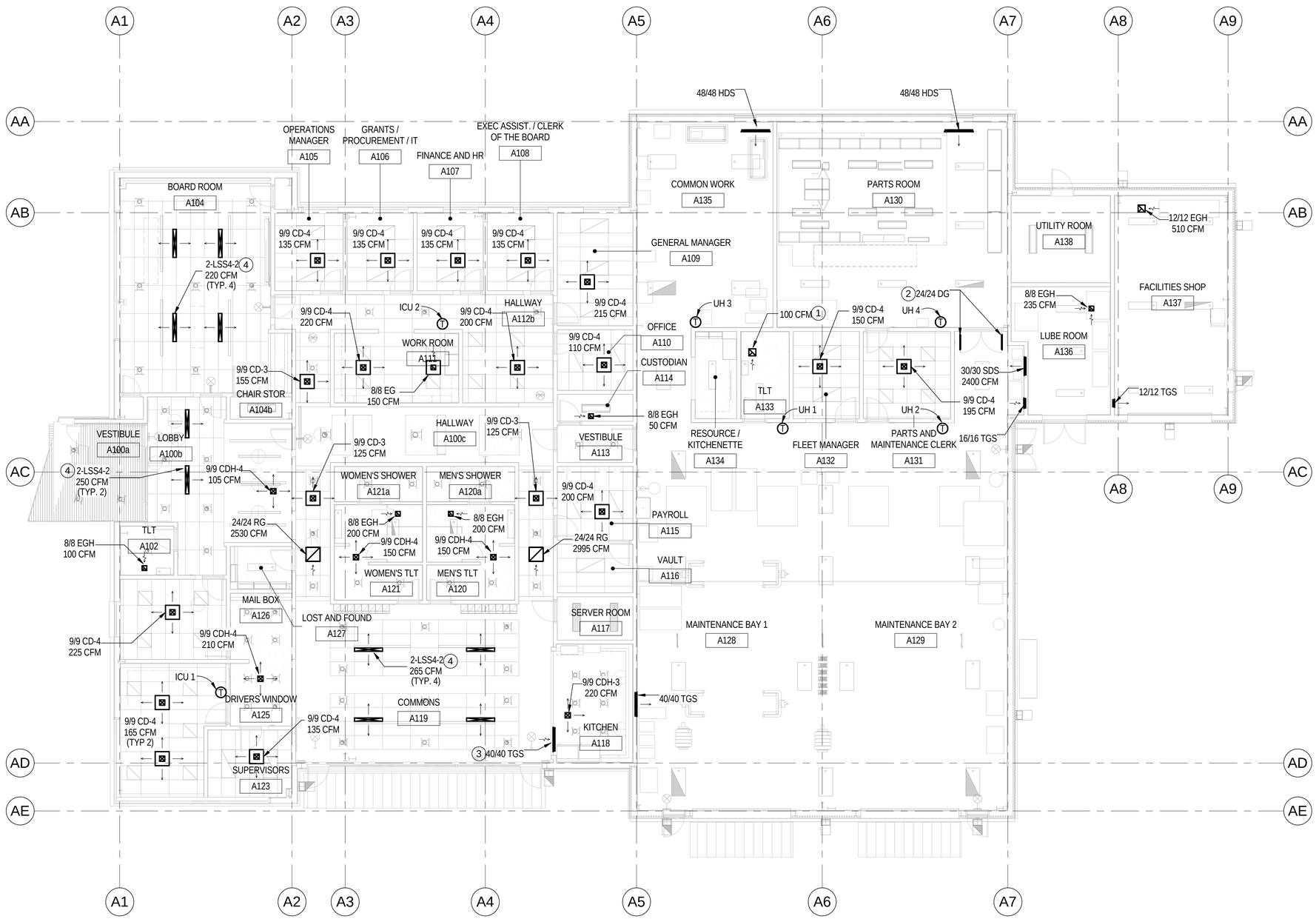

1 BUILDING A MECHANICAL REFLECTED CEILING PLAN

1/8" = 1'-0"

N

GENERAL NOTES

1. ALL HVAC SYSTEMS SHALL BE EQUIPED WITH CONTROLS CAPABLE OF SETBACK OR EQUIPMENT SHUTDOWN, AND SHALL COMPLY WITH REQUIREMENTS OF WSEC C403.2.4.3.2.
2. ALL T-STATS CONTROLLING ZONES WITH HEATING & COOLING SHALL HAVE A MINIMUM 5°F DEADBAND CAPABILITY.
3. COMMISSIONING OF SYSTEMS TO COMPLY WITH WSEC SECTION C408.

CONSTRUCTION NOTES

1. EXHAUST GRILLE PROVIDED WITH FAN.
2. GRILLE TO BE MOUNTED IN DOOR APPROX 6" AFF
3. BOTTOM OF GRILLE TO BE MOUNTED AT 12'-3" AFF. COLOR TO MATCH WALL COLOR.
4. LINEAR GRILLES TO BE PROVIDED AS SHOWN FOR BASE BID AND ALTERNATE BID AA-2. COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.

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BUILDING A MECHANICAL REFLECTED CEILING PLAN

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Sheet Number

Ma4.01

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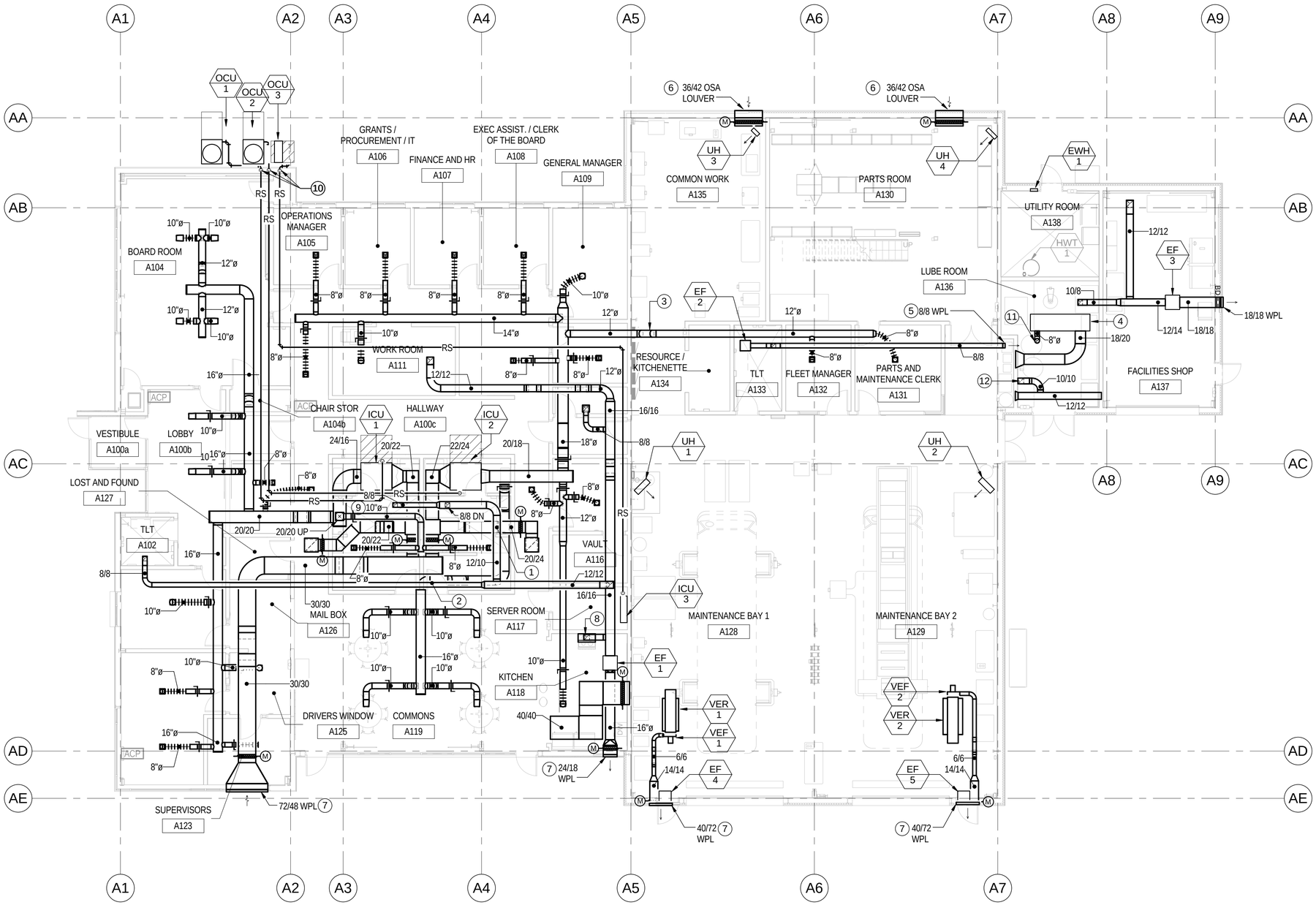

1 BUILDING A MECHANICAL PLAN

1/8" = 1'-0"

N

GENERAL NOTES

1 ALL HVAC SYSTEMS SHALL BE EQUIPED WITH CONTROLS CAPABLE OF SETBACK OR EQUIPMENT SHUTDOWN, AND SHALL COMPLY WITH REQUIREMENTS OF WSEC C403.2.4.3.2.

2 ALL T-STATS CONTROLLING ZONES WITH HEATING & COOLING SHALL HAVE A MINIMUM 5°F DEADBAND CAPABILITY.

3 COMMISSIONING OF SYSTEMS TO COMPLY WITH WSEC SECTION C408.

4. ALL DAMPERS TO COMPLY WITH WSEC SECTION C402.4.5.2 AND C403.2.4.4

CONSTRUCTION NOTES

1 12/10 EXHAUST ABOVE, 20/24 RETURN MIDDLE, 16"Ø SUPPLY BELOW.

2 8/8 EXHAUST ABOVE, 16"Ø SUPPLY BELOW.

3 ROUTE WITH BOTTOM OF DUCT 12'-0" AFF MINIMUM.

4 EXISTING USED OIL FURNACE TO BE RELOCATED TO NEW FACILITY (OFCI). PROVIDE NEW SUPPLY AND EXHAUST CONNECTIONS AS SHOWN.

5 LOCATE EXHAUST LOUVER AT EXTERIOR WALL OF MAINTENANCE AREA, ABOVE LUBE ROOM. PROVIDE WITH BACKDRAFT DAMPER.

6 INSTALL LOUVER AS LOW AS POSSIBLE. LOUVER BY G.C.

7 LOUVER BY G.C.

8 10/10 CONNECTION DOWN TO RANGE HOOD.

9 ROUTE DUCT HIGH IN SPACE TO PROVIDE CLEARANCE FOR ACCESS HATCH BELOW.

10 REFRIGERANT LIQ. AND SUCTION LINES. SIZED PER MANUFACTURERS RECOMMENDATIONS.

11 USED OIL FURNACE FLUE TO ROOF. SEE DETAIL ON SHEET Ma5.01.

12 10/10 TRANSFER DUCT TO BE ROUTED DOWN AND TERMINATE 1'-0" AFF WITH BIRD SCREEN.

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Sheet Title
BUILDING A MECHANICAL PLAN

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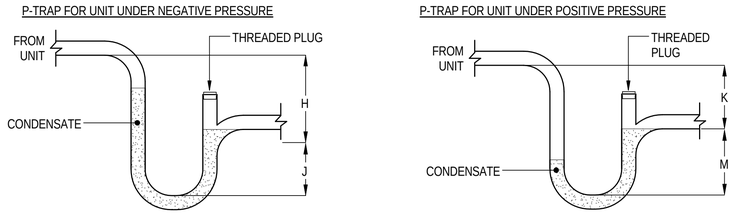


H = (1" FOR EACH 1" OF MAXIMUM NEGATIVE PRESSURE) + 1"

J = (1/2)H

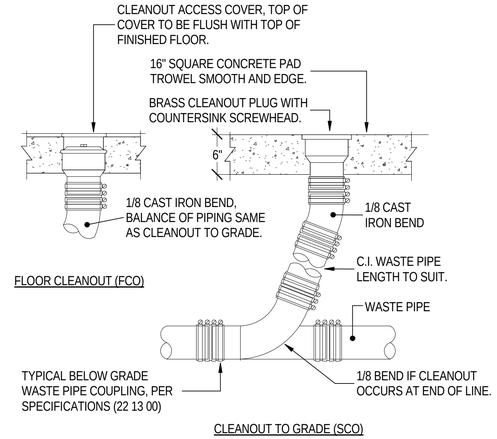
K = 1/2" MINIMUM

M = 1/2" + MAXIMUM TOTAL STATIC PRESSURE

TOTAL PRESSURE	H	J	K	M
1" W.C.	2"	1"	1/2"	1-1/2"
2" W.C.	3"	1.5"	1/2"	2-1/2"
3" W.C.	4"	2"	1/2"	3-1/2"

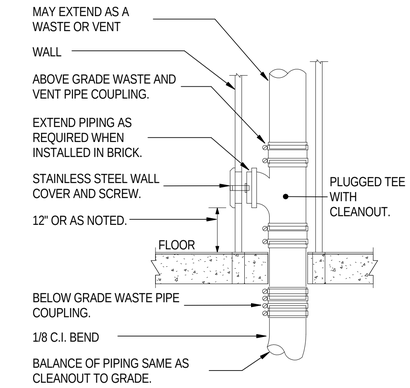
CONDENSATE P-TRAP DETAIL

DIAGRAMMATIC 1



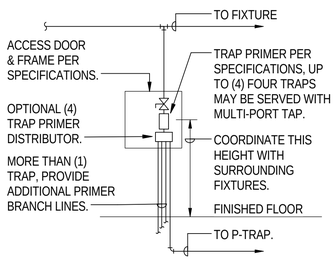
CLEANOUT DETAILS

DIAGRAMMATIC 2



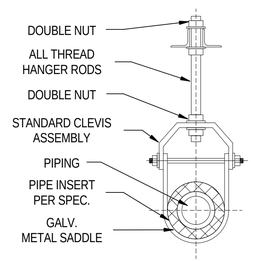
WALL CLEANOUT DETAIL

DIAGRAMMATIC 3



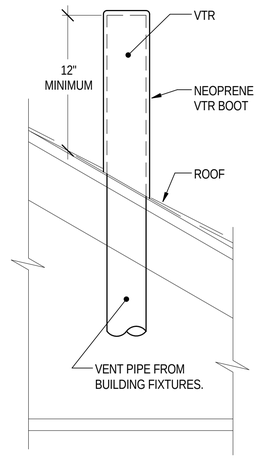
TRAP PRIMER PIPING DIAGRAM

DIAGRAMMATIC 4



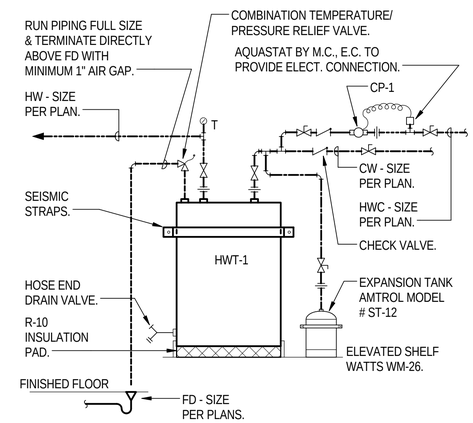
METAL TRUSS PIPE HANGER DETAIL

DIAGRAMMATIC 5



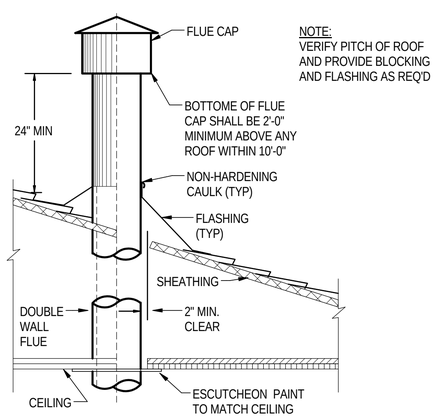
VENT THRU ROOF DETAIL

DIAGRAMMATIC 6



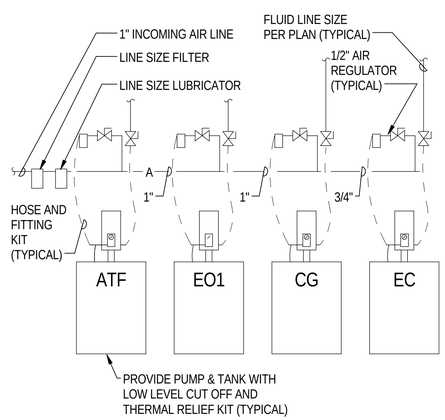
HOT WATER TANK PIPING DETAIL

DIAGRAMMATIC 7



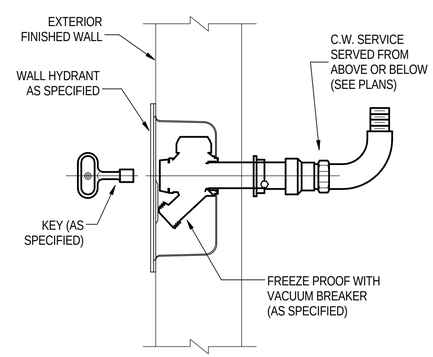
FLUE ROOF PENETRATION DETAIL

DIAGRAMMATIC 8



LUBE ROOM INSTALLATION DETAIL

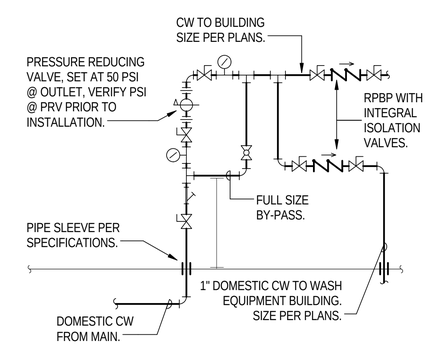
DIAGRAMMATIC 9



NOTE
INSTALL @ 18" ABOVE FINISHED SURFACE

BOX WALL HYDRANT DETAIL

DIAGRAMMATIC 10



DOMESTIC WATER HEADER DETAIL

DIAGRAMMATIC 11

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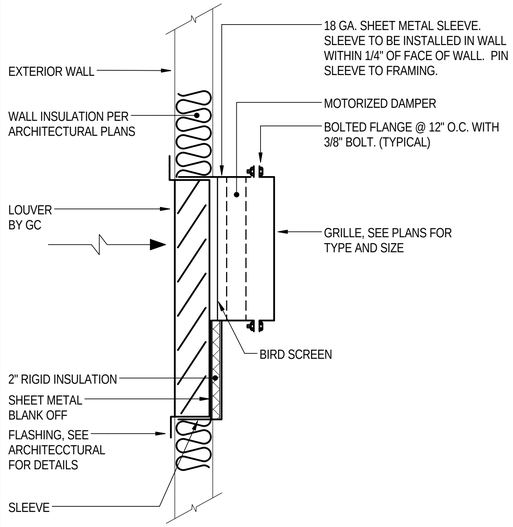
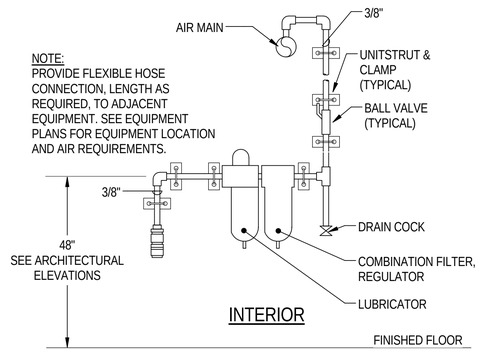


GENERAL NOTES:
1. GLUE RIGID INSULATION TO SHEET METAL BLANK OFF PIECE.
2. COORDINATE ACTUAL LOUVER WALL PENETRATION WITH FRAMER TO ACCOUNT FOR SLEEVE.
3. SEE ARCHITECTURAL DRAWINGS FOR FLASHING DETAIL.
4. BLANK OFF UNUSED PORTION OF LOUVER AS PART OF THE SLEEVE AS REQUIRED. DETAIL IS DIAGRAMMATIC. BLANK OFF AREA CAN BE IN ANY DIRECTION. SEE PLANS.

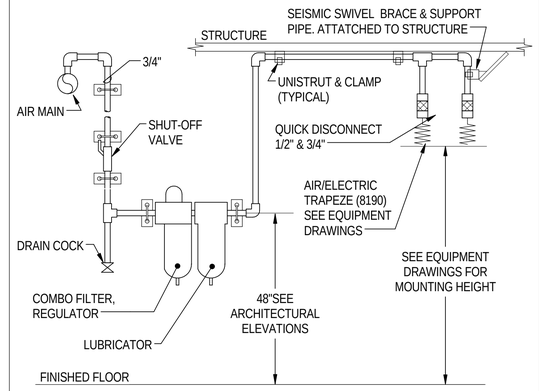
THROUGH WALL GRILLE INSTALLATION DETAIL

DIAGRAMMATIC 1



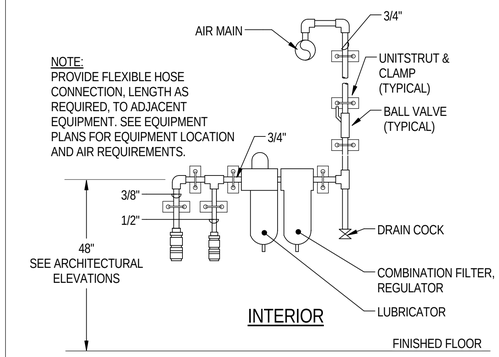
3/8" SINGLE LEG AIR DROP DETAIL

DIAGRAMMATIC 2



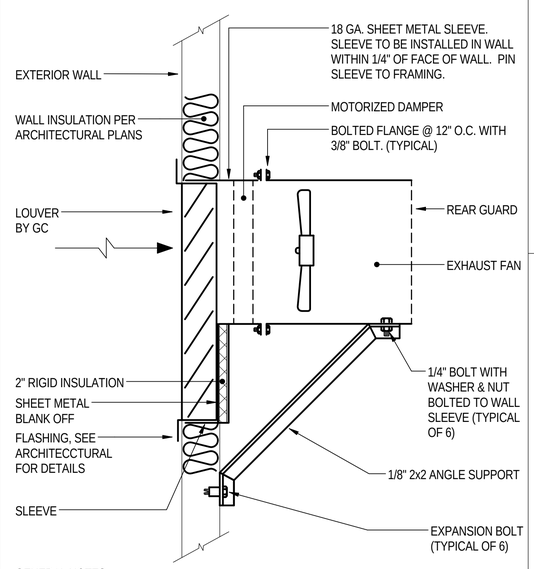
AIR/ELECTRIC AIR DROP DETAIL

DIAGRAMMATIC 3



3/8", 1/2" DUAL LEG AIR DROP DETAIL

DIAGRAMMATIC 4



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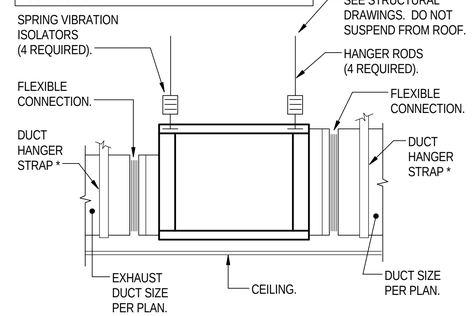
1. GLUE RIGID INSULATION TO SHEET METAL BLANK OFF PIECE.
2. COORDINATE ACTUAL LOUVER WALL PENETRATION WITH FRAMER TO ACCOUNT FOR SLEEVE.
3. SEE ARCHITECTURAL DRAWINGS FOR FLASHING DETAIL.
4. BLANK OFF UNUSED PORTION OF LOUVER AS PART OF THE SLEEVE AS REQUIRED. DETAIL IS DIAGRAMMATIC. BLANK OFF AREA CAN BE IN ANY DIRECTION. SEE PLANS.

WALL MOUNTED EXHAUST FAN INSTALLATION DETAIL

DIAGRAMMATIC 5

NOTE:
MAINTAIN ACCESS CLEARANCE ON BOTH SIDES FOR SERVICE OF BLOWER.

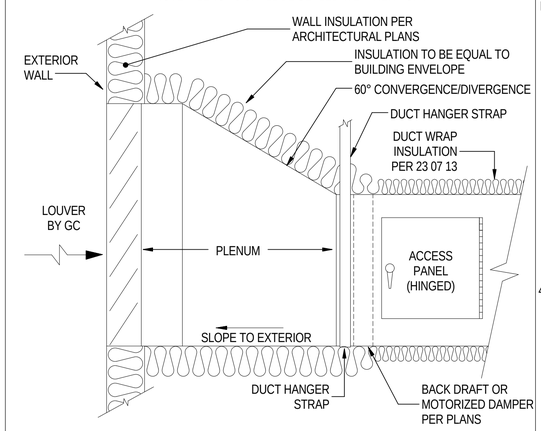
* INSTALL DUCT HANGER STRAPS ADJACENT TO FLEX CONNECTION.



TYPICAL EXHAUST FAN INSTALLATION DETAIL

DIAGRAMMATIC 6

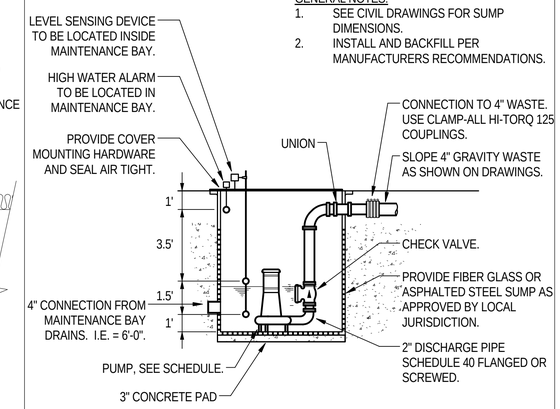
NOTE: PLENUMS SHALL BE SEALED WEATHERTIGHT.



DUCT AT LOUVER INSTALLATION DETAIL

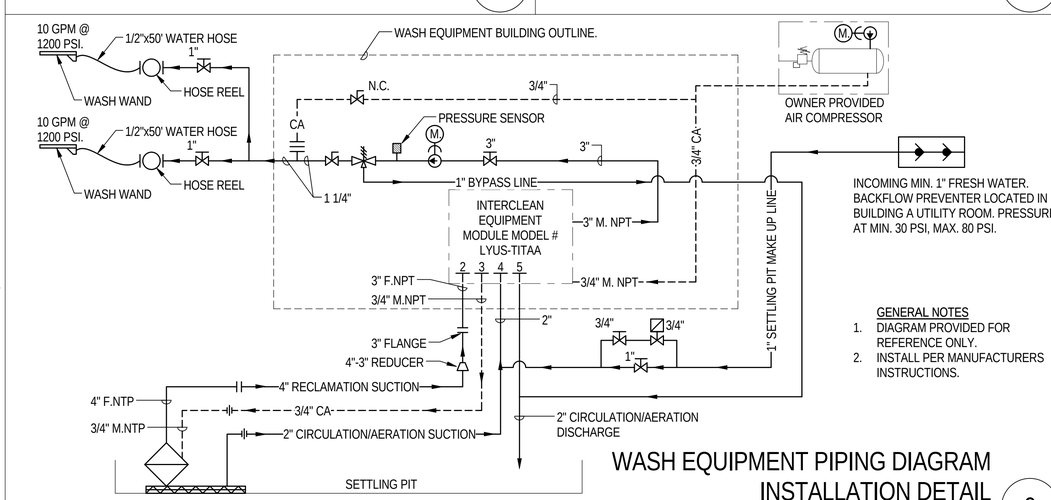
DIAGRAMMATIC 7

GENERAL NOTES:
1. SEE CIVIL DRAWINGS FOR SUMP DIMENSIONS.
2. INSTALL AND BACKFILL PER MANUFACTURERS RECOMMENDATIONS.



LIFT STATION INSTALLATION DETAIL

DIAGRAMMATIC 8



INCOMING MIN. 1" FRESH WATER. BACKFLOW PREVENTER LOCATED IN BUILDING A UTILITY ROOM. PRESSURE AT MIN. 30 PSI, MAX. 80 PSI.

GENERAL NOTES
1. DIAGRAM PROVIDED FOR REFERENCE ONLY.
2. INSTALL PER MANUFACTURERS INSTRUCTIONS.

WASH EQUIPMENT PIPING DIAGRAM INSTALLATION DETAIL

DIAGRAMMATIC 9

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MECHANICAL DETAILS

Drawn By **BC** Checked By **CAC**

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Ma5.02

Sheet Number **107** Of **203**

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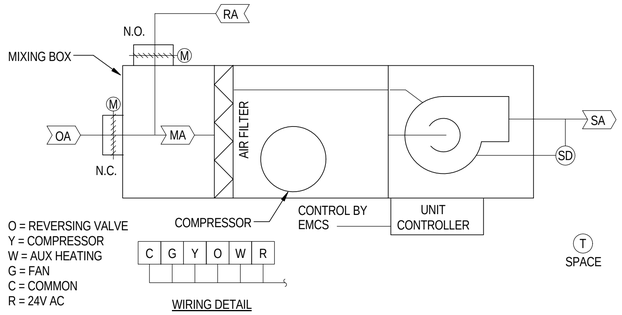


SINGLE ZONE AIR TO AIR HEAT PUMPS

GENERAL:
1. (VAR) IS AN ABBREVIATION THAT INDICATES THE PROCEEDING NOUN IS AN EMCS VARIABLE VALUE.
2. EACH HEAT PUMP CONTROLLED BY A DEDICATED PROGRAMMABLE THERMOSTAT EQUIPPED WITH PUSHBUTTONS TO PROVIDE UNOCCUPIED OVERRIDE REQUEST AND SPACE TEMPERATURE SETPOINT ADJUSTMENT AS REQUIRED.
3. DAMPER ACTUATORS SHALL BE SPRING RETURN. OSA DAMPER SHALL CLOSE WHEN NO POWER OCCURS.
4. MULTIPLE STAGES REQUIRE INDIVIDUAL CONTROL.

FAN:
1. FAN STARTS VIA:
   A. SCHEDULE (VAR)
   B. WARM-UP MODE COMMAND (VAR). GENERATED BY THERMOSTAT OPTIMIZATION ROUTINE.
   C. OVERRIDE COMMAND (VAR). TRIGGERED BY SPACE TEMPERATURE SENSOR UNOCCUPIED OVERRIDE REQUEST (TYPICAL 4 HOUR DURATION (VAR)), UNOCCUPIED HEATING OR COOLING MODE ACTIVATION.

2. FAN ALARMS:
   A. HARDWIRE FAN SHUTDOWN UPON ACTIVATION OF FIRE/SMOKE ALARM.

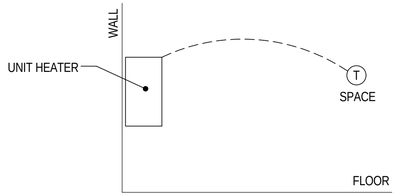
ECONOMIZER:
1. STAND ALONE ECONOMIZER CONSISTS OF AI CONTROLLOR, SENSORS, AND MIXED AIR DAMPER AND OUTSIDE AIR DAMPER WORKING IN OPPOSITION. OUTSIDE AIRDAMPER SPRINGS NORMALLY CLOSED AND MIXED AIR DAMPER
2. SPRINGS NORMALLY OPEN.
3. ECONOMIZER IS CLOSED WHEN FAN IS OFF OR WHEN SYSTEM IS IN WARM-UP MODE.
   ECONOMIZER CLOSES TO A MINIMUM DAMPER POSITION AS DETERMINED BY AIR BALANCER (VAR) IN HEATING MODE.
   ECONOMIZER CLOSES COMPLETELY VIA A MIXED AIR LOW LIMIT SETPOINT INITIALLY SET AT 40°F (VAR).
4. ECONOMIZER MODULATES AS FIRST STAGE OF COOLING TO MAINTAIN SPACE TEMPERATURE SETPOINT (VAR).
5. ECONOMIZER CLOSES TO MINIMUM DAMPER POSITION WHEN OSA TEMPERATURE EXCEEDS RETURN AIR TEMPERATURE.

MECHANICAL HEATING:
1. COMPRESSOR IS OFF WHEN FAN STATUS IS OFF.
2. USE REVERSING VALVE AND COMPRESSOR FOR FIRST STAGE HEATING TO MAINTAIN SPACE TEMPERATURE SETPOINT.
3. USE AUXILIARY ELECTRIC HEAT AS SECOND STAGE IF AVAILABLE.
4. USE DELAY TIMERS TO PREVENT SHORT CYCLING.

MECHANICALCOOLING:
1. COMPRESSOR IS OFF WHEN FAN STATUS IS OFF.
2. USE REVERSING VALVE AND COMPRESSOR FOR SECOND STAGE COOLING TO MAINTAIN SPACE TEMPERATURE SETPOINT.
3. USE DELAY TIMERS TO PREVENT SHORT CYCLING.

TEMPERATURE SETPOINT:
1. SET HEATING MODE ACTIVATION TEMPERATURE AT 69 DEGREES F. (VAR)
2. SET COOLING MODE ACTIVATION TEMPERATURE 5 DEGREES (VAR) ABOVE HEATING MODE ACTIVATION SETPOINT.
3. SUPPLY AIR TO REMAIN BETWEEN 55 (VAR) AND 85 (VAR) DEGREES F. LOW LIMIT FOR SUPPLY TEMPERATURE IN HEATING OR DEADBAND MODE IS 70°F (VAR)

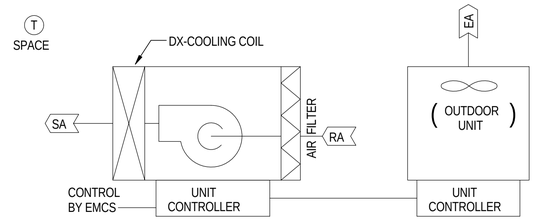
INFORMATION AT THE THERMOSTAT:
SPACE TEMPERATURE
SETPOINTS
TIME SCHEDULES
OCCUPIED/UNOCCUPIED MODE
HOLIDAY SCHEDULES
OVERRIDE TIMER STATUS
OVERRIDE TIMER VALUE
ALARMS



ELECTRIC UNIT HEATER

1. ELECTRIC WALL HEATER SHALL BE CONTROLED BY THE REMOTE T'STAT.

2. THERMOSTAT SHALL HAVE A SET POINT OF 70° F (ADJUSTABLE).

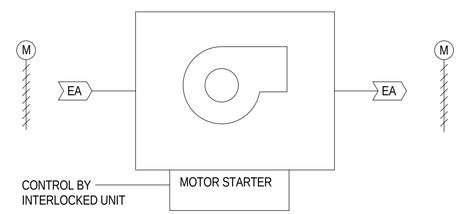


SPLIT SYSTEM COOLING UINTS

1. SPLIT SYSTEM COOLING SHALL BE CONTROLLED BY MANUFACTURER SUPPLIED PROGRAMMABLE THERMOSTAT. THE UNIT FAN AND COMPRESSOR SHALL CYCLE ON AND OFF TO MAINTAIN ROOM TEMPERATURE SETPOINT.

2. MISCELLANEOUS SAFETIES: PROVIDE ADDITIONAL INTERLOCKS AS REQUIRED TO PREVENT COMPRESSOR FROM OPERATING WITHOUT FAN OPERATION. THE INTEGRITY OF INTEGRAL LOW PRESSURE AND HIGH PRESSURE SAFETY SHUTDOWNS OF COMPRESSOR SHALL REMAIN INTACT AND UNAFFECTED BY THE FIELD INSTALLATION OF CONTROLS.

INFORMATION AT THE THERMOSTAT:
SPACE TEMPERATURE
UNIT COMMANDED MODE (ON/OFF)
ALARM/TROUBLE CONDITIONS
SETPOINTS



TYPICAL INTERLOCKED EXHAUST FAN

1. DAMPERS AND EXHAUST FAN SHALL BE INTERLOCKED WITH ITS ASSOCIATED UNIT VIA HARDWIRE OR EMCS CONTROL RELAY AS SHOWN ON SCHEDULE. DAMPERS SHALL FULLY OPEN BEFORE FANS START.

STAND ALONE CONTROLS

A. GENERAL: PROVIDE AND INSTALL ALL NECESSARY DEVICES, RELAYS, SENSORS, DAMPERS, CONDUIT, AND WIRING TO PROVIDE A COMPLETE AND OPERATING HVAC SYSTEM.
   1. STAIRWAY, SHAFT, OUTDOOR AIR INTAKES AND EXHAUST DAMPER CONTROL: PROVIDE AND INSTALL ALL DEVICES AND WIRING REQUIRED TO AUTOMATICALLY CLOSE THE DAMPERS WHEN THE ASSOCIATED SYSTEM IS OFF. COORDINATE POWER REQUIREMENTS WITH EC.
   2. HVAC SYSTEM CONTROL:
      a. PROVIDE AND INSTALL ALL DEVICES AND WIRING REQUIRED TO PROVIDE THERMOSTATIC ZONE CONTROL WITH A TEMPERATURE RANGE OR DEADBAND OF AT LEAST 5°F, THERMOSTATIC SET BACK CONTROLS DOWN TO 55°F OR UP TO 85°F, AND AUTOMATIC TIME CLOCK CONTROL CAPABLE OF STARTING AND STOPPING 7 DIFFERENT DAILY SCHEDULES PER WEEK WITH A 2 HOUR OVERRIDE THERMOSTATIC ZONE CONTROL SHALL BE CAPABLE OF AUTOMATICALLY ADJUSTING THE DAILY START TIME OF THE HVAC SYSTEM IN ORDER TO BRING THE ZONE TO THE DESIRED OCCUPIED TEMPERATURE PRIOR TO SCHEDULED OCCUPANCY. THERMOSTATIC ZONE CONTROL SHALL HAVE A 10 HOUR BATTERY BACK-UP.
      b. PROVIDE AND INSTALL ALL DEVICES AND WIRING REQUIRED TO PROVIDE ZONE DEMAND CONTROL VENTILATION IF AIR SIDE ECONMIZER IS PRESENT, DESIGN OUTDOOR AIRFLOW IS GREATER THAN 1,000 CFM, AND NO HEAT RECOVERY SYSTEM IS PRESENT.
      c. PROVIDE AND INSTALL ALL DEVICES AND WIRING REQUIRED TO PROVIDE OCCUPANCY SENSOR CONTROL IN ALL CLASSROOMS, GYMS, AUDITORIUMS, AND CONFERENCE ROOMS GREATER THAN 500 SQUARE FEET.
      d. PROVIDE AND INSTALL ALL DEVICES AND WIRING REQUIRED TO PROVIDE ECONOMIZER CONTROL. ECONOMIZER CONTROL SHALL INTEGRATE DEMAND VENTILATION CONTROL, OCCUPANCY SENSOR CONTROL, OUTSIDE AIR TEMPERATURE GREATER THEN ZONE TEMPERATURE CONTROL, AND MECHANICAL COOLING AS SECOND STAGE OF COOLING CONTROL.
      e. COORDINATE ALL CONTROL POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

B. FIRE ALARM SYSTEM SHUTDOWN: PROVIDE NECESSARY CONDUIT, WIRING, AND ACCESSORIES TO SHUTDOWN EACH UNIT UPON ACTIVATION OF THAT UNIT'S SMOKE DETECTORS (SMOKE DETECTORS WITH DPDT ARE BY DIVISION 26). CONNECTIONS SHALL BE HARDWIRED, INDEPENDENT OF ANY CONTROL SYSTEM LOGIC, SO THAT FAILURE OF CONTROL SYSTEM OR LOSS OF CONTROL SYSTEM WILL IN NO WAY PREVENT THE ALARMED SMOKE DETECTOR SHUTDOWN OF THE SYSTEM. IN ADDITION TO SHUTTING DOWN THE UNIT WITH THE ALARMED SMOKE DETECTOR, ALL EQUIPMENT INTERLOCKED OR SERVED BY THAT UNIT SHALL BE OFF. OTHER UNITS SHALL ALSO SHUT-OFF AS REQUIRED TO AVOID BUILDING PRESSURE DIFFERENTIALS AND SIMILAR UNDESIRABLE EFFECTS. UPON RESET OF ALARMED DEVICE, SYSTEM SHALL AUTOMATICALLY RETURN TO NORMAL, PROVIDE TIME DELAY START OF EQUIPMENT TO PREVENT EXCESS LOAD STARTING AT THE SAME TIME.

C. WATER HEATERS: WATER HEATERS SHALL BE CONTROLLED BY THERMOSTAT PROVIDED WITH UNIT. SET FOR 120 DEGRESS.

D. DOMESTIC HW RECIRCULATION PUMPS: PUMP SHALL BE ENABLED TO OPERATE BY TIME CLOCK. WHEN ENABLED, PUMP SHALL BE CONTROLLED IN CONJUNCTION WITH A STAND ALONE SENSOR IN THE HOT WATER RECIRCULATION LINE. WHEN HWC FALLS TO 5°F BELOW SETPOINT, THE PUMP SHALL RUN; WHEN TEMPERATURE RETURNS TO SETPOINTS, PUMP SHALL BE OFF. SETPOINT AND DIFFERENTIAL SHALL BE ADJUSTABLE. INITIAL SETPOINT SHALL BE 5°F LESS THAN ASSOCIATED WATER HEATER.

I. CARBON MONOXIDE (CO) & NITROGEN DIOXIDE (NOx) EXHAUST: EF-4, EF-5

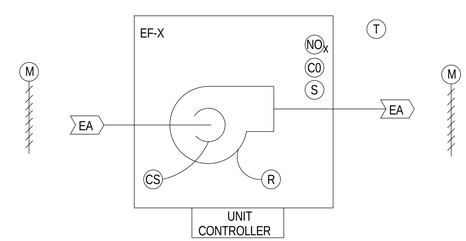
TEMPERATURE CONTROL
DAMPERS SHALL OPEN AND FAN SHALL START UPON SENSING SPACE TEMPERATURE ABOVE 75°F SETPOINT (ADJUSTABLE) AND STOP VIA SCHEDULE OR WHEN SPACE TEMPERATORE FALLS 5°F BELOW SETPOINT.

CARBON MONOXIDE (CO) & NITROGEN DIOXIDE (NOx) CONTROL
IF CARBON MONOXIDE SENSOR (CO) INDICATES THE CONCENTRATION OF CO HAS EXCEEDED 100 PPM (ADJUSTABLE) OR NITROGEN SENSOR (NOx) INDICATES THE CONCENTRATION OF NOx HAS EXCEEDED 1.0 PPM (ADJUSTABLE) FOR A DURATION IN EXCESS OF 1 MINUTES (ADJUSTABLE), THE FOLLOWING SHALL OCCUR:

DAMPERS SHALL OPEN AND FAN SHALL START.

IF GAS CONCENTRATIONS REMAIN AT THE HIGH LEVEL ALERT FOR A DURATION IN EXCESS OF 15 MINUTES (ADJUSTABLE), THE FOLLOWING SHALL OCCUR:

THE GAS DETECTOR ALARM CONTACTS CLOSE.
THE GAS DETECTOR ALARM INDICATION LED LIGHTS.
THE GAS DETECTOR AUDIBLE ALARM SOUNDS.
GAS CONCENTRATIONS ARE DISPLAYED AT THE GAS DETECTOR.
CONTROLS CONTRACTOR PROVIDE MANUAL OVERRIDE SWITCH AS SHOWN OF FLOOR PLANS.



EXHAUST FAN CONTROL SEQUENCE

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Project Numbers
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FTA PROJECT NUMBER: WA-0180-02

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MECHANICAL CONTROLS

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Sheet Number **108** Of **203**

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FIRE ALARM FLOOR PLAN GENERAL NOTES

1. THE INITIATION DEVICES, NOTIFICATION APPLIANCES, HEAD END EQUIPMENT, ETC. SHOWN ON THESE CONTRACT DOCUMENTS ARE TO ASSIST THE FIRE ALARM CONTRACTOR IN THE DESIGN OF THE FIRE ALARM SYSTEM. ALL REQUIRED DEVICES MAY NOT BE INDICATED AND WILL BE THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO PROVIDE.

2. PROVIDE ALL MATERIALS, EQUIPMENT, INSTALLATION LABOR, DESIGN AND PROGRAMMING FOR A COMPLETE ADDRESSABLE. 24VOLT D.C. AND FULLY OPERATIONAL FIRE ALARM SYSTEM. ALL EQUIPMENT PROVIDED FOR THIS PROJECT SHALL BE NEW, CURRENTLY MANUFACTURED, AND SHALL BE DELIVERED TO THE PROJECT SITE WITH THE ORIGINAL FACTORY SEAL INTACT. MATERIALS AND WORKMANSHIP SHALL FULLY COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.F.P.A. #70), NATIONAL FIRE ALARM AND SIGNALING CODE (N.F.P.A. #72).

3. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL WALL MOUNTED DEVICES WITH ARCHITECTURAL ELEVATIONS.

4. BIDS SHALL INCLUDE ALL CORE DRILLING REQUIRED TO FACILITATE ALL CONDUIT WORK. CORE DRILLED HOLES SHALL NOT PENETRATE THROUGH ANY STRUCTURAL BEAMS, REBAR AND/OR CONDUIT CONTAINED WITHIN THE CONCRETE SLABS AND/OR WALLS THAT MAY COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING. CORE DRILL LOCATIONS MAY NEED TO BE ADJUSTED TO ACCOMMODATE OBSTRUCTIONS.

5. WHEN PENETRATING FIRE RATED WALLS, FLOORS, OR CEILINGS, THE CONTRACTOR SHALL UTILIZE APPROVED FIRE RATED PENETRATION METHODS. THE FIRE RATING OF THE WALLS, FLOORS, OR CEILINGS SHALL BE MAINTAINED AFTER THE CONDUIT AND / OR WIREWAY HAS BEEN INSTALLED

6. BIDS SHALL INCLUDE ALL CABLING AND EQUIPMENT REQUIREMENTS.

7. PRIOR TO ROUGH–IN, COORDINATE EXACT LOCATIONS OF FIRE ALARM APPLIANCES AND DEVICES WITH THE ELECTRICAL, MECHANICAL, AND FIRE PROTECTION CONTRACTORS.

8. ALL MANUAL PULL STATIONS SHALL BE OF METAL CONSTRUCTION, DUAL ACTION, AND KEY OPERABLE.

9. EACH NEW WATER FLOW SWITCH, OR TAMPER SWITCH SHALL HAVE A SEPARATE AND UNIQUE ADDRESS.

10. THE GENERAL CONTRACTOR AND FIRE ALARM SYSTEM CONTRACTOR SHALL COORDINATE ALL CUTTING, PATCHING AND FINISH WORK.

11. THE BASIS FOR THE VISUAL NOTIFICATION APPLIANCE (STROBE) PLACEMENT IS THE UTILIZATION OF (115) CANDELA (C.D.) AT A 50'–0" X 50'–0" SPACING FOR ALL VISUAL NOTIFICATION APPLIANCES. IF THE FIRE ALARM SYSTEM CONTRACTOR DECIDES TO INSTALL LOWER OUTPUT VISUAL APPLIANCES, IT BECOMES THE RESPONSIBILITY OF THE FIRE ALARM SYSTEM CONTRACTOR TO MEET THE MINIMUM CANDELA (C.D.) RATING AT THE LISTED MAXIMUM ROOM SIZE INDICATED IN TABLE 18.5.5.4.1(a) FOR WALL MOUNTED VISIBLE APPLIANCES OR TABLE 18.5.5.4.1(b) FOR CEILING MOUNTED VISIBLE APPLIANCES IN THE 2013 EDITION OF N.F.P.A. #72.

12. PROVIDE NEW CIRCUIT LABELS AND DIRECTORY CARDS FOR PANELS ALTERED AND / OR ADDED BY THIS CONTRACT.

13. PROVIDE A MINIMUM OF (1) NOTIFICATION CIRCUIT PER FLOOR THAT DOES NOT EXCEED 80% OF IT'S RATED CIRCUIT OUTPUT.

14. PROVIDE REMOTE TEST SWITCHES AND REMOTE LIGHT EMITTING DIODES (LED'S) FOR EACH DUCT SMOKE DETECTOR.

15. THE FIRE ALARM SYSTEM CONTRACTOR SHALL PERFORM SOUND LEVEL TESTING IN EACH SPACE OF THE BUILDING PRIOR TO ACCEPTANCE TESTING TO VERIFY THAT SOUND LEVELS OF AT LEAST 15 DECIBELS (dB) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 DECIBELS (dB) ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS (WHICHEVER IS GREATER) IS MET. THE SOUND LEVEL READING SHALL BE TAKEN AT A POINT 5'–0" ABOVE FINISHED FLOOR AND 10'–0" AWAY FROM THE AUDIBLE NOTIFICATION APPLIANCE (HORN). DOCUMENTATION OF VALUES RECORDED IN ALL SPACES SHALL BE PROVIDED TO THE OWNER.

16. IN SPACES THAT DO NOT MEET THE MINIMUM SOUND LEVEL VALUES, THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE ADDITIONAL AUDIBLE NOTIFICATION APPLIANCES (HORNS) OR ADJUST THE LOCATION OR "TAP" SETTING UNTIL THE MINIMUM SOUND LEVELS ARE OBTAINED.

17. THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE CARBON MONOXIDE DETECTION IN FACILITIES WITH FOSSIL FUEL BURNING APPLIANCES, EQUIPMENT, STOVES, OR FIRE PLACES.

FIRE ALARM EQUIPMENT REQUIREMENTS

1. FIRE ALARM:
   - 1.1. THE FIRE ALARM SYSTEM CONTROL PANEL (FACP) MAY INCLUDE INTERNAL POWER SUPPLIES AND THE FIRE ALARM SYSTEM POWER SUPPLY (FAPS) IS SHOWN FOR REFERENCE ONLY. PROVIDE ADDITIONAL QUANTITIES OF POWER SUPPLIES AS REQUIRED FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
   - 1.2. PROVIDE BATTERY CALCULATIONS FOR ALL FIRE ALARM SYSTEMS. NOTIFY CONTRACTING OFFICE REPRESENTATIVE IF ADDITIONAL POWER SUPPLIES ARE REQUIRED FOR EXISTING SYSTEMS.

CABLING AND CONDUIT REQUIREMENTS

1. ALL INITIATING AND NOTIFICATION CIRCUITS SHALL BE "CLASS B" WIRING.

2. ALL SIGNALING LINE AND INITIATING DEVICE CIRCUITS SHALL BE A MINIMUM OF (16) GAUGE.

3. ALL WIRE RUN UNDERGROUND SHALL BE SUITABLE FOR "WET" INSTALLATIONS.

4. ALL WIRE TERMINATIONS SHALL BE AT TERMINAL STRIPS WITH SCREW CONNECTIONS.

5. ALL WIRES SHALL BE FREE OF SPLICES. THE USE OF WIRE NUTS, CRIMPED CONNECTORS, TWISTING OF WIRES, ETC. WILL NOT BE ALLOWED.

6. ALL FIRE ALARM CABLING SHALL BE INSTALLED IN CONDUIT. EXPOSED CABLING WILL NOT BE ALLOWED. PROVIDE SIZES AND QUANTITIES AS REQUIRED.

7. CONDUITS SHALL BE CONCEALED IN ACCESSIBLE CEILING SPACES, WALLS, AND OTHER AREAS WHEREVER POSSIBLE.

8. ALL CONDUIT SHALL BE INSTALLED IN A PARALLEL OR PERPENDICULAR FASHION THAT IS TIGHT TO STRUCTURE. THE CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTING WITH OTHER TRADES.

9. WHERE EXPOSED TO VIEW PAINT ALL NEW CONDUITS, MOUNTING HARDWARE, AND RACEWAYS TO MATCH THE ADJACENT SURFACES.

10. CONDUITS PASSING THROUGH BUILDING CONSTRUCTION EXPANSION JOINTS SHALL HAVE APPROVED EXPANSION FITTINGS AND BE PROPERLY BONDED.

FIRE ALARM FLOOR PLAN CONSTRUCTION NOTES

1. THE 24 VOLTS D.C. SPRINKLER SYSTEM ALARM BELL (ELECTRIC BELL) SHALL BE PROVIDED BY THE SPRINKLER SYSTEM CONTRACTOR. CONDUIT, CABLING, TERMINATION, AND MOUNTING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. THE BELL SHALL BE ACTIVATED UPON THE FLOW OF WATER BY THE WATER FLOW SWITCH AND/OR PRESSURE SWITCH ALARM AND POWERED BY THE FIRE ALARM SYSTEM CONTROL PANEL ALLOWING THE ALARM BELL TO BE ON BATTERY BACKUP.

2. THE FIRE ALARM SYSTEM CONTRACTOR SHALL COORDINATE THE INSTALLATION LOCATION OF THE SPRINKLER SYSTEM ALARM BELL (ELECTRIC BELL) WITH THE FIRE PROTECTION SPRINKLER SYSTEM CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL WIRE AND CONNECT THE BELL TO THE FIRE ALARM CONTROL PANEL AS REQUIRED.

3. REVIEW FIRE PROTECTION SPRINKLER SYSTEM DRAWINGS FOR EXACT QUANTITIES AND LOCATIONS OF FIRE ALARM CONNECTION POINTS.

4. THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE PLYWOOD BACK BOARD(S) ON WALLS THAT SHALL BE USED TO MOUNT ENCLOSURES OF ANY KIND. PLYWOOD BACKING BOARD(S) SHALL BE SECURELY FASTENED TO THE WALL. THE SYSTEMS PLYWOOD BACKING BOARD SHALL BE A MINIMUM OF ¾", APA EXTERIOR GRADE ACX, VOID–FREE (MOUNTED WITH THE SMOOTH SIDE OUT), AND FIRE RETARDANT WITH A FLAME SPREAD RATING NOT MORE THAN 25 WHEN TESTED ACCORDING TO ASTM E–84. PROVIDE (3) COATS OF EGG SHELL WHITE FIRE RETARDANT PAINT. THE STAMP INDICATING THE FIRE RETARDANT RATING OF THE PLYWOOD SHALL NOT BE PAINTED OVER, AND SHALL BE LEFT EXPOSED.

5. SEE THE FIRE ALARM RISER DIAGRAM ON SHEET FA0.02 FOR MORE INFORMATION.

6. PROVIDE ADDITIONAL SYSTEM RELATED EQUIPMENT AS REQUIRED.

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
P	MANUAL PULL STATION – WALL MOUNT OPERABLE PART BETWEEN 42" AND 48" ABOVE FINISH FLOOR
S	SMOKE DETECTOR
S	DUCT SMOKE DETECTOR
TS	TAMPER SWITCH
FS	FLOW SWITCH
PIV	POST INDICATOR VALVE TAMPER SWITCH
B	SPRINKLER SYSTEM ALARM BELL (24 VOLTS D.C.)
	COMBINATION HORN/STROBE – WALL MOUNTED WITH THE ENTIRE STROBE LENS 80" ABOVE THE FINISHED FLOOR OR NOT LESS THAN 6" BELOW THE CEILING, WHICHEVER IS LOWER
	COMBINATION HORN/STROBE – CEILING MOUNTED
	STROBE ONLY – WALL MOUNTED WITH THE ENTIRE STROBE LENS 80" ABOVE THE FINISHED FLOOR OR NOT LESS THAN 6" BELOW THE CEILING, WHICHEVER IS LOWER
B	REMOTE INDICATOR LAMP FOR INITIATING DEVICES ABOVE THE CEILING – WALL MOUNTED AT 96" ABOVE FINISH FLOOR
FACP	FIRE ALARM CONTROL PANEL
RAP	FIRE ALARM REMOTE ANNUNCIATOR PANEL
FAPS	FIRE ALARM POWER SUPPLY FOR NOTIFICATION DEVICES
BAT	BATTERY CABINET
GMAP	GRAPHIC MAP

MISCELLANEOUS

SYMBOL	DESCRIPTION
1	CONSTRUCTION NOTES
$	ALL NEW DEVICES INDICATED WITH A DARK CONTINUOUS LINE TYPE
1 / A	MECHANICAL EQUIPMENT CONNECTION – "1" INDICATES MECHANICAL EQUIPMENT IDENTIFICATION AND "A" INDICATES THE DRAWING THE MECHANICAL EQUIPMENT CAN BE FOUND ON
J	JUNCTION BOX
RD	RD INDICATES RETURN DUCT
S	S INDICATES SURFACE MOUNT BACK BOX
W	W INDICATES WEATHERPROOF DEVICE

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Sheet Title
FIRE ALARM LEGEND

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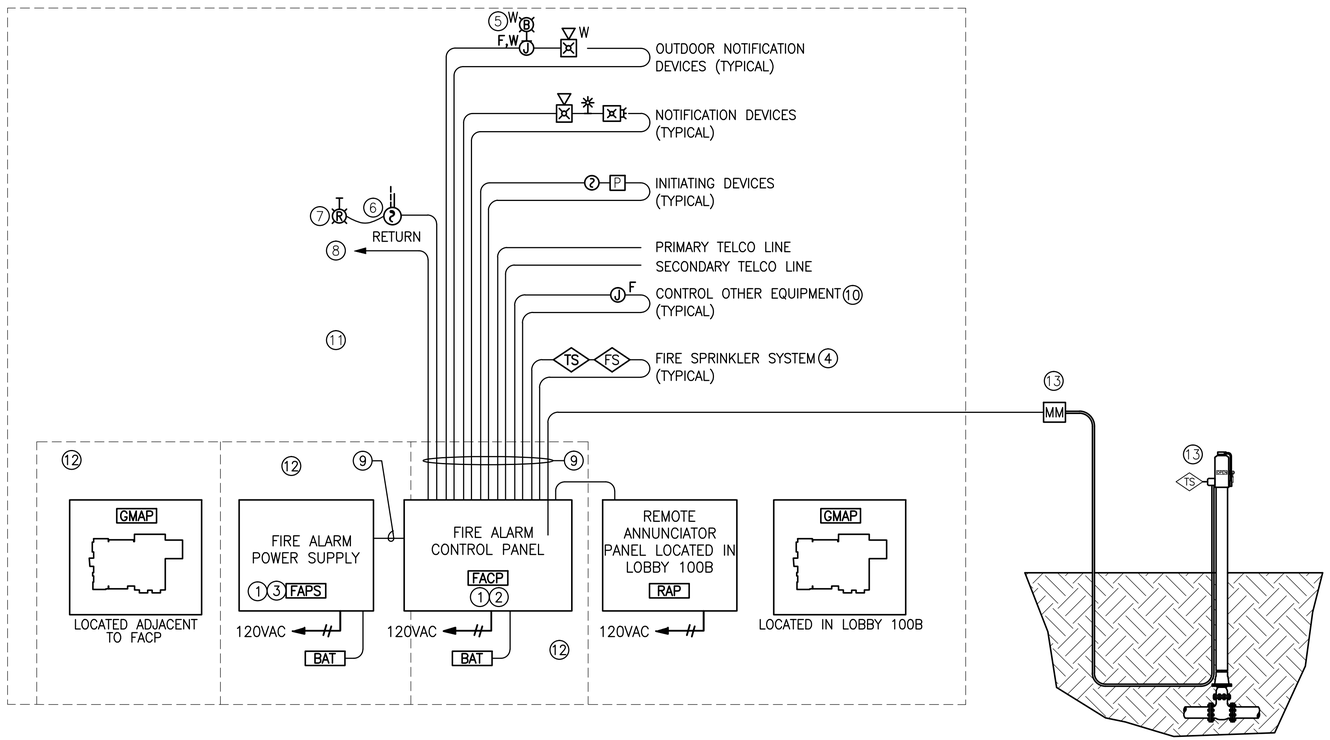

FIRE ALARM / MASS NOTIFICATION SYSTEM RISER DIAGRAM

DIAGRAMMATIC

1

FIRE ALARM/MASS NOTIFICATION SYSTEM RISER DIAGRAM CONSTRUCTION NOTES

1. THE USE OF PRIMARY POWER. PROVIDE A MINIMUM OF 72 HOURS OF STANDBY OPERATION AND 15 MINUTES OF ALARM OPERATION. ALL BATTERIES SHALL BE SIZED TO PROVIDE AT LEAST 20% ADDITIONAL SPARE CAPACITY. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. PROVIDE ALL NECESSARY EQUIPMENT, INTERFACES, OTHER APPURTENANCES, AND PROGRAMMING AS REQUIRED FOR COMMUNICATION TO THE EXISTING BASE MONITORING SYSTEM.
3. PROVIDE SYSTEM POWER SUPPLIES, WHERE REQUIRED.
4. FIRE SPRINKLER SYSTEM SWITCHES SHALL BE PROVIDED AND INSTALLED BY SPRINKLER SYSTEM CONTRACTOR. THE SWITCHES SHALL BE WIRED AND CONNECTED TO THE FIRE ALARM SYSTEM BY THE ELECTRICAL CONTRACTOR. SEE THE FIRE SPRINKLER SYSTEM DRAWINGS FOR EXACT QUANTITIES AND LOCATIONS OF ALL FIRE SPRINKLER SWITCHES, WHICH SHALL BE MONITORED BY THE FIRE ALARM SYSTEM.
5. THE 24 VOLTS D.C. SPRINKLER SYSTEM ALARM BELL SHALL BE PROVIDED BY THE FIRE PROTECTION SPRINKLER SYSTEM CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL WIRE AND CONNECT THE ALARM BELL TO THE FIRE ALARM / MASS NOTIFICATION SYSTEM CONTROL PANEL (FMCP) AND THE FIRE ALARM CONTRACTOR SHALL PROGRAM THE ALARM BELL TO ACTIVATE UPON THE FLOW OF WATER.
6. DUCT MOUNTED SMOKE DETECTORS LOCATED IN SUPPLY AND RETURN DUCTS, FOR H.V.A.C. UNITS 2,000 C.F.M. AND LARGER. SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. INSTALLED BY THE MECHANICAL CONTRACTOR. WIRING AND CONNECTION OF THE DUCT MOUNTED SMOKE DETECTORS SHALL BE BY THE BY ELECTRICAL CONTRACTOR.
7. PROVIDE REMOTE ALARM INDICATOR FOR EACH INITIATING DEVICE NOT SEEM (WHERE APPLICABLE) THAT SHALL BE LOCATED WITHIN A 5'–0" RADIUS OF THE INITIATING DEVICE (IN FLOOR PLAN VIEW). REMOTE ALARM INDICATORS INSTALLED IN ACOUSTICAL CEILING TILES SHALL BE CENTERED ON CEILING TILES (12" FROM AN ACOUSTICAL TILE RUNNER).
8. PROVIDE FIRE ALARM CONNECTION TO ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) PANEL FOR APPROPRIATE MECHANICAL SYSTEM SHUT DOWN.
9. PROVIDE SYSTEM CABLES FOR A FULLY FUNCTIONAL SYSTEM, AS REQUIRED.
10. PROVIDE CONTROL RELAYS TO SHUNT THE PUBLIC ADDRESS SYSTEM, SHUTDOWN OF H.V.A.C. UNITS, ETC.
11. THE RISER DIAGRAM IS DIAGRAMMATIC IN NATURE. IT DOES NOT SHOW ALL DEVICES AND DOES NOT REPRESENT ACTUAL CONDUIT OR CABLE ROUTING.
12. THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE PLYWOOD BACK BOARD(S) ON WALLS THAT SHALL BE USED TO MOUNT ENCLOSURES OF ANY KIND. PLYWOOD BACKING BOARD(S) SHALL BE SECURELY FASTENED TO THE WALL. THE SYSTEMS PLYWOOD BACKING BOARD SHALL BE A MINIMUM OF ¾", APA EXTERIOR GRADE ACX, VOID–FREE (MOUNTED WITH THE SMOOTH SIDE OUT), AND FIRE RETARDANT WITH A FLAME SPREAD RATING NOT MORE THAN 25 WHEN TESTED ACCORDING TO ASTM E–84. PROVIDE (3) COATS OF EGG SHELL WHITE FIRE RETARDANT PAINT. THE STAMP INDICATING THE FIRE RETARDANT RATING OF THE PLYWOOD SHALL NOT BE PAINTED OVER, AND SHALL BE LEFT EXPOSED.
13. THE FIRE ALARM SYSTEM CONTRACTOR SHALL INSTALL 1" PVC CONDUIT WITH (1) PAIR OF "WET" RATED CABLING FROM THE FIRE ALARM MONITOR MODULE TO A POINT JUST BELOW GRADE ADJACENT TO THE FREE STANDING YARD MOUNTED POST INDICATING VALVE.

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FIRE ALARM REQUIREMENTS, GENERAL NOTES, AND CONSTRUCTION NOTES

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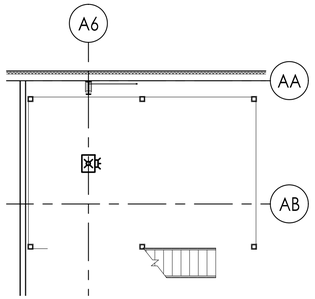
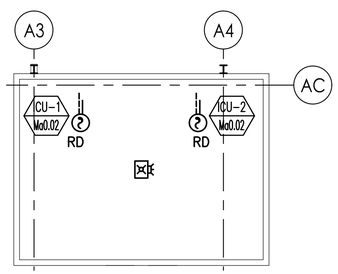


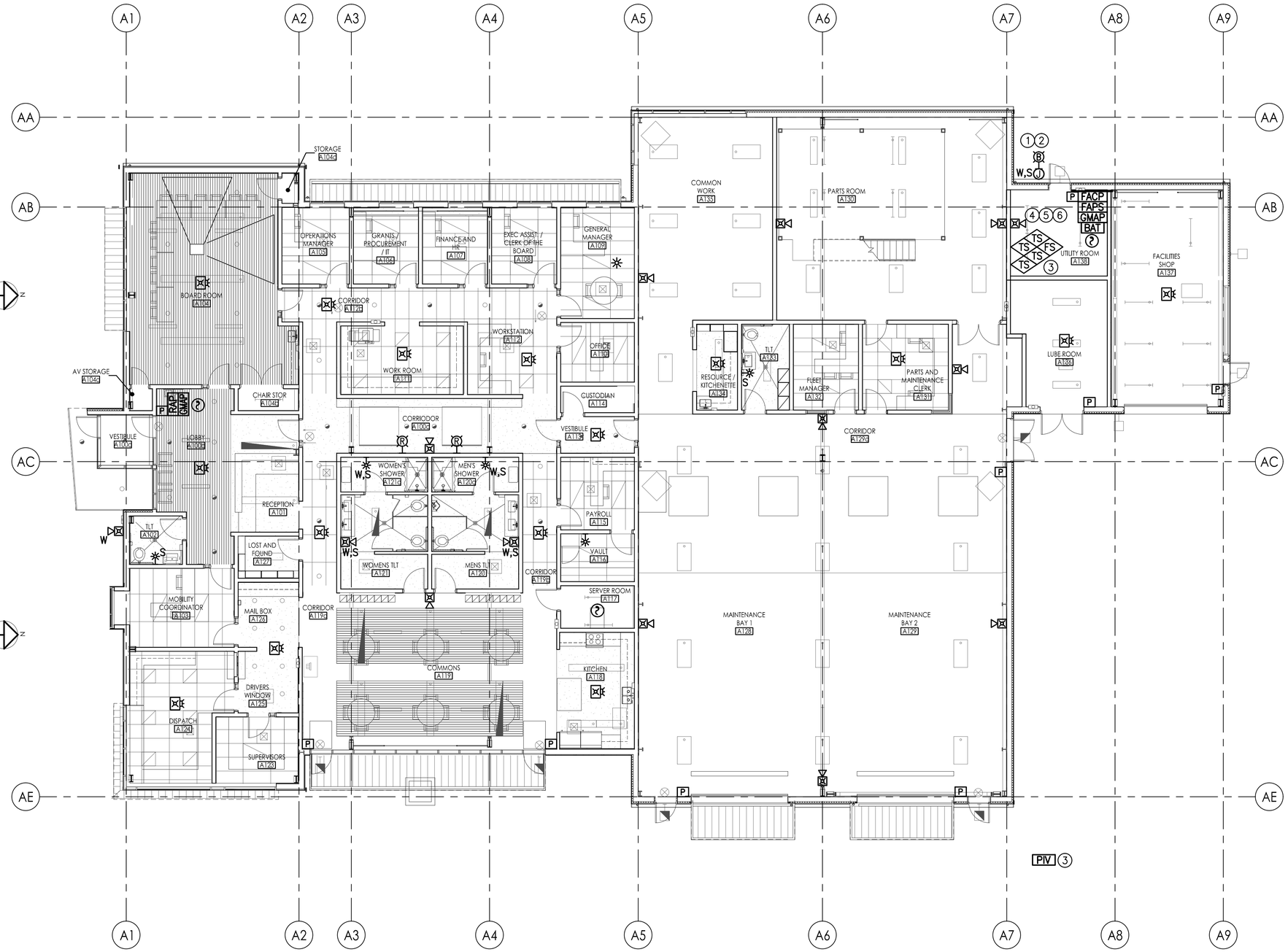
2 FIRE ALARM PARTS ROOM MEZZANINE PLAN
1/8" = 1'-0"

0' 8' 16' 24' 32'
GRAPHIC SCALE 1/8" = 1'-0"



3 FIRE ALARM MECHANICAL MEZZANINE PLAN
1/8" = 1'-0"

0' 8' 16' 24' 32'
GRAPHIC SCALE 1/8" = 1'-0"



1 FIRE ALARM FIRST FLOOR PLAN
1/8" = 1'-0"

0' 8' 16' 24' 32'
GRAPHIC SCALE 1/8" = 1'-0"

GENERAL NOTE

1. SEE SHEET FA0.01 FOR FLOOR PLAN GENERAL NOTES, FLOOR PLAN CONSTRUCTION NOTES, AND FLOOR PLAN SPECIAL NOTES.

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FIRE ALARM FIRST FLOOR AND MEZZANINE PLAN

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FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
	ELEVATION CHANGE IN PIPING WITH A 90° ELBOW GOING DOWN
	ELEVATION CHANGE IN PIPING WITH A 45° ELBOW GOING DOWN
	ELEVATION CHANGE IN PIPING WITH A 90° ELBOW GOING UP
	PIPING CONNECTION – TOP
	PIPING CONNECTION – BOTTOM
	PIPING CONNECTION – SIDE
	CAP ON END OF PIPE
	GROOVED RIGID COUPLING
	GROOVED FLEXIBLE COUPLING
	GROOVED CHECK VALVE
	GROOVED BUTTERFLY VALVE
	FLANGED OS&Y GATE VALVE
	THREADED BALL VALVE
	THREADED PRESSURE RELIEF VALVE
	THREADED UNION
	4–WAY SWAY BRACE LOCATION
	ANGLED HOSE VALVE
	HEAVY LINE INDICATES NEW MAIN PIPING
	THIN LINE INDICATES NEW BRANCH PIPING
X	EQUIPMENT LIST ITEM CALL OUT
X	CONSTRUCTION NOTE CALL OUT

MINIMUM FIRE PROTECTION DESIGN CRITERIA

ROOM NAME	HAZARD CLASSIFICATION	DESIGN DENSITY (G.P.M. / SQ. FT.)	MINIMUM REMOTE AREA (SQ. FT.) UNMODIFIED	MAXIMUM HEAD SPACING (SQUARE FEET)	HOSE STREAMS (G.P.M.)	MINIMUM REMOTE AREA MODIFICATIONS THAT APPLY
VESTIBULE / LOBBY / HALLWAYS	LIGHT HAZARD OCCUPANCY	0.10	1,500	225	100	1 & 5
RECEPTION / OFFICES						
RESTROOMS / SHOWERS						
WORK ROOM / WORK STATION						
BOARD ROOM / MAIL BOX						
PARTS AND MAINTENANCE CLERK / COMMONS						
CUSTODIAN	ORDINARY HAZARD GROUP I OCCUPANCY	0.15	1,500	130	250	1 & 5
LOST AND FOUND						
KITCHEN / RESOURCE KITCHENETTE						
STORAGE ROOMS	ORDINARY HAZARD GROUP II OCCUPANCY	0.20	1,500	130	250	1 & 5
COMMON WORK / VAULT						
FACILITIES / SHOP						
UTILITY ROOM / SERVER ROOM						
PARTS ROOM / MAINTENANCE BAYS						
PARTS ROOM MEZ / MECHANICAL MEZ						
LUBE ROOM	EXTRA HAZARD GROUP II OCCUPANCY	0.40	ENTIRE AREA	100	500	NONE

SYSTEM MODIFICATIONS THAT ARE REQUIRED TO BE PERFORMED ON THE MINIMUM REMOTE AREA SIZE

MODIFICATION NUMBER	REASON FOR MODIFICATION	REMOTE AREA MODIFICATION
1	WET PIPE SYSTEM, Q.R. SPRINKLERS, 20' OR LESS CEILING, CEILING POCKETS PROTECTED	USE FIGURE 11.2.3.2.3.1 OF THE 2010 EDITION OF N.F.P.A. #13
2	CEILING OR ROOF SLOPE EXCEEDS A 2 IN 12 PITCH	INCREASE REMOTE AREA 30%
3	DRY PIPE SPRINKLER SYSTEM OR DOUBLE INTERLOCK PRE–ACTION SPRINKLER SYSTEM	INCREASE REMOTE AREA 30%
4	UTILIZING HIGH TEMPERATURE SPRINKLERS IN AN EXTRA HAZARD OCCUPANCY	REDUCE REMOTE AREA 30%, BUT NOT LESS THAN 2,000 SQ. FT.
5	EXTENDED COVERAGE SPRINKLER HEADS MAY EXCEED THE MAXIMUM HEAD SPACING LISTED	MINIMUM DESIGN AREA OR (5) SPRINKLERS, WHICHEVER IS GREATER
6	COMBUSTIBLE CONCEALED SPACE (INCLUDING ROOF VENTING SPACES)	3,000 SQ. FT. AFTER ALL OTHER MODIFICATIONS HAVE BEEN MADE

FLOW TEST INFORMATION

BASE HYDRAULIC CALCULATIONS FOR THE BID ON THE QUIMPER WATER SYSTEM REPORT DATED AUGUST 10TH, 2012 BY THE JEFFERSON COUNTY PUBLIC UTILITIES DEPARTMENT (P.U.D.). AFTER AWARD OF THE PROJECT, THE CONTRACTOR SHALL VERIFY AVAILABLE WATER SUPPLY WITH A FLOW TEST PERFORMED WITHIN SIX MONTHS OF BID DATE. SEE PROJECT SPECIFICATIONS FOR MORE DETAIL.

TEST HYDRANT
STATIC PRESSURE: 82.4 P.S.I.
RESIDUAL PRESSURE: 20.0 P.S.I.
RESIDUAL FLOW: 1,105.9 G.P.M.

TEST HYDRANT ELEVATION: APPROXIMATELY 136.5 FEET AND OBTAINED FROM PROJECT SIZE GRADING PLAN.

TEST HYDRANT IS LOCATED ALONG 4 CORNERS ROAD AT POINT OF CONNECTION TO NEW SITE DISTRIBUTION SYSTEM.

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FIRE PROTECTION DESIGN CRITERIA, LEGEND, AND FLOW TEST

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FLOOR PLAN GENERAL NOTES

1. GENERAL CONTRACTOR SHALL COORDINATE ALL SHORT TERM SCHEDULES WITH OWNER PRIOR TO COMMENCING WORK.

2. ALL SPRINKLER HEAD LOCATIONS SHALL TAKE INTO ACCOUNT THE CONFIGURATION OF THE AREA BEING PROTECTED AND SHALL CONFIGURE THE LAYOUT TO BE SYMMETRICALLY SPACED.

3. COORDINATE SPRINKLER HEAD LOCATIONS IN ACOUSTICAL CEILING TILES AND GYPSUM WALLBOARD CEILINGS WITH THE ARCHITECTURAL DRAWINGS FOR CEILING LOCATIONS AND HEIGHTS, MECHANICAL DRAWINGS FOR H.V.A.C. DIFFUSER LOCATIONS, AND ELECTRICAL DRAWINGS FOR CEILING GRID LAYOUT, LIGHT LOCATIONS, AND FIRE ALARM DEVICES. ACOUSTICAL CEILING GRID LAYOUT AND DEVICES INDICATED ON THE ARCHITECTURAL DRAWINGS MAY NOT BE CORRECT.

4. ALL PIPING IN FINISHED AREAS SHALL BE INSTALLED CONCEALED ABOVE THE CEILING SPACE UNLESS SPECIFICALLY NOTED OTHERWISE. ANY PORTION OF THE SPRINKLER SYSTEM INSTALLED EXPOSED THAT IS NOT INDICATED ON THESE DOCUMENTS SHALL BE ADDRESSED IN WRITING WITH SKETCHES (PRIOR TO THE PIPING BEING FABRICATED OR INSTALLED) TO THE ARCHITECT AND ENGINEER TO EVALUATE.

5. ALL SPRINKLER BRANCH LINES SHALL BE RESTRAINED AGAINST EXCESSIVE MOVEMENT PER PROJECT SPECIFICATIONS.

6. ALL DROPS TO PENDENT SPRINKLER HEADS THAT ALLOW THE SPRINKLER HEAD TO MOVE MORE THAN 3" FROM A STAGNANT POSITION OR TO CONTINUE TO OSCILLATE BACK AND FORTH WITHOUT READILY DAMPENING SHALL BE RESTRAINED AGAINST EXCESSIVE MOVEMENT PER PROJECT SPECIFICATIONS.

7. THE FIRE PROTECTION SPRINKLER SYSTEM PIPING SHALL BE INSTALLED TO MINIMIZE PIPING OFFSETS IN ROOMS OF EXPOSED STRUCTURE. PIPING SHALL BE INSTALLED AS TIGHT TO STRUCTURE AS POSSIBLE AND SHALL BE INSTALLED TO MINIMIZE VISUAL IMPACTS.

8. ALL AUXILIARY DRAINS AND INSPECTOR'S TEST VALVES PLACED AT THE REMOTE PART OF THE SPRINKLER SYSTEM SHALL TERMINATE ON THE EXTERIOR OF THE BUILDING UNLESS OTHERWISE NOTED. AUXILIARY DRAINS LOCATED IN FINISHED AREAS SHALL BE PLACED WITHIN A LOCKABLE ACCESS PANEL. SEE PROJECT SPECIFICATIONS FOR MORE INFORMATION.

9. N.F.P.A. #70 (NATIONAL ELECTRICAL CODE) REQUIRES A DEDICATED SPACE OF 6'–0" ABOVE ALL ELECTRICAL PANELS, TRANSFORMERS, SWITCHGEARS, ETC. NO PIPING, DUCTS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE LOCATED IN THIS ZONE PER SECTION 110.26(f)(1)(a). ALL SPRINKLER PIPING THAT IS NOT COORDINATED TO AVOID THESE AREAS SHALL BE MODIFIED AND RELOCATED AT THE FIRE PROTECTION SPRINKLER CONTRACTOR EXPENSE.

10. ALL SPRINKLER HEADS INSTALLED IN OCCUPIED AND PUBLIC AREAS WITH ACOUSTICAL TILE OR GYPSUM WALLBOARD CEILINGS SHALL BE WHITE SEMI–RECESSED STYLE WITH A WHITE FINISH ESCUTCHEON UNLESS NOTED OTHERWISE.

11. ALL PENDENT STYLE CONCEALER SPRINKLER HEADS SHALL BE BRONZE FINISHED WITH WHITE FINISHED ESCUTCHEON PLATES THAT ARE FLAT IN PROFILE. ESCUTCHEON PLATES THAT ARE DOMED IN PROFILE WILL NOT BE ALLOWED.

12. ALL HORIZONTAL SIDEWALL STYLE CONCEALER SPRINKLER HEADS SHALL BE BRONZE FINISHED WITH WHITE FINISHED ESCUTCHEON PLATES THAT ARE DOMED IN PROFILE.

13. ALL SPRINKLER HEADS INSTALLED IN ROOMS WITH EXPOSED CEILINGS SHALL BE BRONZE FINISHED UPRIGHTS UNLESS NOTED OTHERWISE.

14. SPRINKLER HEADS LOCATED IN ACOUSTICAL CEILING TILES SHALL BE INSTALLED IN A CONSISTENT PATTERN, CENTERED BOTH DIRECTIONS WITHIN THE CEILING TILES (12" FROM A CEILING GRID), AND PLACED TO AVOID ALL LIGHTS AND AIR DIFFUSER GRILLES.

15. ALL PENDENT SPRINKLER HEADS INSTALLED IN CEILING SYSTEMS THAT ARE HARD PIPED SHALL HAVE A 1" ANNULAR CLEARANCE AROUND THE CEILING SYSTEM PENETRATION THAT WILL ALLOW FREE MOVEMENT OF AT LEAST 1" IN ALL DIRECTIONS. THE CEILING PENETRATION SHALL BE CONCEALED WITH AN OVERSIZED ESCUTCHEON OF THE SAME FINISH AS THE SPRINKLER HEAD AND WILL BE PROVIDED BY THE FIRE PROTECTION SPRINKLER SYSTEM CONTRACTOR.

16. THE CONTRACTOR IS ADVISED THERE WILL BE NO PAYMENTS FOR "ENGINEERING" UNTIL THE SUBMITTAL MATERIALS (SHOP DRAWINGS, SEISMIC BRACE CALCULATIONS, HYDRAULIC CALCULATIONS, AND EQUIPMENT SUBMITTALS) HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT AND/OR ENGINEER.

17. ALL SPRINKLER SYSTEM COMPONENTS, DEVICES, AND MATERIALS INSTALLED AS PART OF THIS PROJECT SHALL BE NEW.

FLOOR PLAN CONSTRUCTION NOTES

1. THE FIRE PROTECTION SPRINKLER SYSTEM DESIGN SHALL BE BASED UPON N.F.P.A. #13 DESIGN CRITERIA FOR LIGHT HAZARD OCCUPANCY. SEE "MINIMUM DESIGN CRITERIA" TABLE ON SHEET FX0.01 AND PROJECT SPECIFICATIONS FOR MORE INFORMATION.

2. THE FIRE PROTECTION SPRINKLER SYSTEM DESIGN SHALL BE BASED UPON N.F.P.A. #13 DESIGN CRITERIA FOR ORDINARY HAZARD GROUP I OCCUPANCY. SEE "MINIMUM DESIGN CRITERIA" TABLE ON SHEET FX0.01 AND PROJECT SPECIFICATIONS FOR MORE INFORMATION.

3. THE FIRE PROTECTION SPRINKLER SYSTEM DESIGN SHALL BE BASED UPON N.F.P.A. #13 DESIGN CRITERIA FOR ORDINARY HAZARD GROUP II OCCUPANCY. SEE "MINIMUM DESIGN CRITERIA" TABLE ON SHEET FX0.01 AND PROJECT SPECIFICATIONS FOR MORE INFORMATION.

4. THE FIRE PROTECTION SPRINKLER SYSTEM DESIGN SHALL BE BASED UPON N.F.P.A. #13 DESIGN CRITERIA FOR EXTRA HAZARD GROUP II OCCUPANCY. SEE "MINIMUM DESIGN CRITERIA" TABLE ON SHEET FX0.01 AND PROJECT SPECIFICATIONS FOR MORE INFORMATION.

5. THE FIRE PROTECTION SPRINKLER CONTRACTOR SHALL PROVIDE A 24 VOLT D.C. ELECTRIC BELL MOUNTED TO THE EXTERIOR OF THE BUILDING AND POWERED THROUGH THE FIRE ALARM PANEL ALLOWING THE ELECTRIC BELL TO BE ON A BATTERY BACK–UP POWER SUPPLY.

6. 6" UNDERGROUND FIRE PROTECTION SUPPLY PIPING. SEE CIVIL DRAWINGS FOR PIPING CONTINUATION AND DEVICES TO BE INSTALLED IN THE YARD.

7. 4" FIRE DEPARTMENT CONNECTION PIPING. SEE CIVIL DRAWINGS FOR PIPING CONTINUATION AND DEVICES TO BE INSTALLED IN THE YARD.

8. 2½" HOSE VALVES FOR FULL FLOW BACKFLOW TESTING.

9. SEE ENLARGED FIRE PROTECTION RISER DETAIL ON SHEET FX1.01 FOR ADDITIONAL NOTES.

10. PROVIDE SPRINKLER PROTECTION BENEATH STAIRS OF COMBUSTIBLE CONSTRUCTION OR UNDER NON–COMBUSTIBLE STAIRS IN WHICH THE AREA IS USED FOR STORAGE.

11. SPRINKLER PROTECTION IS REQUIRED WITHIN THE SKYLIGHTS PER N.F.P.A. #13. SPRINKLERS MAY BE OMITTED FROM SKYLIGHTS WHEN THE POCKET DOES NOT EXCEED 32 SQUARE FEET AND THE SKYLIGHTS ARE SEPARATED BY AT LEAST 10 FEET HORIZONTALLY FROM ANY OTHER SKYLIGHT OR UNPROTECTED CEILING POCKET.

12. PROVIDE SPRINKLER PROTECTION BENEATH ALL EXTERIOR OVERHANGS AND CANOPIES THAT EXCEED 4'–0" IN DEPTH IN WHICH ANY MEMBER THAT COMPRISES THE EXTERIOR OVERHANG AND CANOPY IS OF COMBUSTIBLE CONSTRUCTION, NOT JUST THE EXPOSED SURFACE OR WHERE EXTERIOR OVERHANGS AND CANOPIES EXCEED 2'–0" IN DEPTH AND THE AREA UNDERNEATH IS USED FOR THE STORAGE OF COMBUSTIBLES REGARDLESS OF THE CONSTRUCTION TYPE.

13. PROVIDE SPRINKLER PROTECTION BENEATH THE ROLL BACK GARAGE STYLE DOORS THAT ROLLS BACK MORE THAN 4'–0" INTO THE BUILDING. SPRINKLER PROTECTION SHALL BE BASED UPON THE DESIGN CRITERIA OF THE SPACE CONTAINING THE ROLL BACK GARAGE STYLE DOOR. N.F.P.A. #13 ALLOWANCE FOR SPRINKLERS INSTALLED UNDER ROLL BACK GARAGE STYLE DOORS TO BE BASED UPON LIGHT HAZARD OCCUPANCY REQUIREMENTS WILL NOT BE ALLOWED.

14. CONCEPTUAL LOCATION FOR AN AUTOMATIC AIR VENT AND ISOLATION CONTROL VALVE. THE FIRE PROTECTION SPRINKLER SYSTEM CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF BOTH COMPONENTS BASED UPON THE PIPING LAYOUT INDICATED ON THE CONTRACTOR'S SHOP DRAWINGS.

15. THE FIRE PROTECTION SPRINKLER SYSTEM CONTRACTOR SHALL INSTALL BRANCHLINES HIGH AND PARALLEL TO ROOF SLOPE WITH UPRIGHT SPRINKLERS IN THE EXPOSED AREAS WITH NO OFFSETTING OF BRANCHLINE PIPING TO MINIMIZE VISUAL IMPACTS.

16. THE FIRE PROTECTION SPRINKLER SYSTEM CONTRACTOR SHALL COORDINATE INSTALLATION OF SPRINKLER HEADS WITH ALL TRADES AND ARCHITECTURAL DRAWINGS TO ALLOW FOR A SYMETRICAL INSTALLATION OF EVENLY SPACED SPRINKLERS.

FLOOR PLAN SPECIAL NOTES

1. THE FIRE PROTECTION SPRINKLER SYSTEM CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL DRAWINGS TO DETERMINE IF THE INSTALLED WORK IS TO BE "PHASED". THE FIRE PROTECTION SPRINKLER SYSTEM CONTRACTOR SHALL MAKE THE NECESSARY ACCOMMODATIONS ON THE SUBMITTAL DRAWINGS TO CONFORM WITH THE ARCHITECT'S "PHASING PLAN".

2. THE FIRE PROTECTION SPRINKLER SYSTEM CONTRACTOR IS RESPONSIBLE FOR MAKING ALL ELEVATION AND HORIZONTAL ADJUSTMENTS IN THE PIPING REQUIRED TO FOLLOW THE BUILDING'S STRUCTURE, CEILING HEIGHTS, AND ARCHITECTURAL FEATURES. THE CONTRACT DOCUMENTS ARE CONCEPTUAL IN NATURE AND SHOW THE PROPOSED PIPE ROUTING, BUT DO NOT INCLUDE ALL REQUIRED FITTINGS OR OFFSETS THAT ALLOW THE PIPING TO BE INSTALLED AS IT IS SHOWN ON THE CONTRACT DOCUMENTS.

3. THE ONLY KWIK BOLT LISTED AND APPROVED FOR SUPPORT IN CRACKED CONCRETE AND FOR SEISMIC BRACING IN CONCRETE IS HILTI KWIK BOLT MODEL KB–TZ. ALL OTHER KWIK BOLTS WILL NOT BE ALLOWED.

4. SEE THE "GENERAL FIRE PROTECTION" SPECIFICATION SECTION FOR DEFINITION OF ABBREVIATIONS USED ON THE FIRE PROTECTION CONTRACT DOCUMENTS.

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RISER DETAIL CONSTRUCTION NOTES

1. ALL RISER APPURTENANT PENETRATIONS OF THE FINISHED FLOOR, EXTERIOR WALL, AND NON–FRANGIBLE INTERIOR WALLS TO HAVE A 2" ANNULAR SPACE FOR PIPING 4" AND LARGER IN SIZE AND A 1" ANNULAR SPACE FOR PIPING LESS THAN 4" IN SIZE.

2. UNDERGROUND SUPPLY FLANGE TO BE TWO–HOLED WITH RESPECT TO THE EXTERIOR WALL TO ASSURE THAT THE BACKFLOW PREVENTER IS INSTALLED PARALLEL TO THE INTERIOR WALL.

3. THE FIRE PROTECTION SPRINKLER CONTRACTOR SHALL COMBINE THE MAIN DRAIN DISCHARGE, PRESSURE RELIEF VALVE DISCHARGE, AND THE WET SYSTEM INSPECTORS TEST VALVE DISCHARGE TOGETHER TO MAKE A SINGLE PENETRATION THROUGH THE EXTERIOR WALL. TERMINATE DISCHARGE PIPING WITH A 45° DOWN TURNED ELBOW. ALL PIPING AND FITTINGS INSTALLED ON THE EXTERIOR OF THE BUILDING SHALL BE GALVANIZED SCHEDULE 40. COORDINATE EXACT TERMINATION LOCATION WITH THE GENERAL CONTRACTOR AND THE BUILDING OWNER.

4. SHADED AREA REPRESENTS THE CLEAR SPACE REQUIRED FOR THE FIRE PROTECTION SPRINKLER SYSTEM EQUIPMENT IN WHICH STORAGE OF COMMODITIES IS NOT ALLOWED.

5. THE FIRE PROTECTION SPRINKLER CONTRACTOR SHALL COORDINATE THE INSTALLATION LOCATION OF THE LOCAL ALARM DEVICE (ELECTRIC BELL) WITH THE LOCAL AUTHORITY HAVING JURISDICTION. THE AUTHORITY HAVING JURISDICTION MAY REQUIRE THE LOCAL ALARM DEVICE TO BE INSTALLED ON THE ADDRESS SIDE OF THE BUILDING. THE LOCAL ALARM DEVICE (ELECTRIC BELL) SHALL BE MOUNTED APPROXIMATELY 10'–0" ABOVE FINISHED EXTERIOR GRADE.

6. SUPPLY PIPE AND FITTINGS FROM THE FLANGE ABOVE FLOOR TO THE SUPPLY FLANGE OF THE BACKFLOW PREVENTER SHALL MAINTAIN A CLEAN AND RUST FREE POTABLE WATER SYSTEM AND SHALL BE CEMENT LINED DUCTILE IRON PIPING (DIP) CLASS 52 OR OF A TYPE CONTAINED IN THE PROJECT SPECIFICATIONS (BLACK AND GALVANIZED STEEL PIPE IS NOT ALLOWED).

7. UNDERGROUND PIPE TYPE SHALL MAINTAIN A CLEAN AND RUST FREE POTABLE WATER SYSTEM AND SHALL BE DUCTILE IRON PIPING (DIP) CLASS 52 OR OF A TYPE CONTAINED IN THE PROJECT SPECIFICATIONS (BLACK AND GALVANIZED STEEL PIPE IS NOT ALLOWED).

8. FIRE DEPARTMENT CONNECTION PIPING SHALL BE DUCTILE IRON PIPING (DIP) CLASS 52. IF ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, GROOVED SCHEDULE 10 GALVANIZED PIPE WITH A 10 MIL CORROSION PROTECTIVE TAPE WRAP OVER AN ASPHALT TYPE PAINTED COATING OR OF A TYPE CONTAINED IN THE PROJECT SPECIFICATIONS MAY BE USED.

9. THE ONLY FITTING ALLOWED UNDER THE BUILDING CONCRETE SLAB IS THE 90° ELBOW THAT TRANSITIONS THE UNDERGROUND PIPING FROM A HORIZONTAL INSTALLATION TO A VERTICAL INSTALLATION, PRIOR TO PENETRATING THE CONCRETE SLAB.

10. PROVIDE A CONCRETE THRUST BLOCK AT THE ELBOW WHERE THE UNDERGROUND PIPING CHANGES FROM A HORIZONTAL INSTALLATION TO A VERTICAL INSTALLATION. THE ELBOW SHALL ALSO BE PROVIDED WITH RODDING AS A SECOND MEANS OF RESTRAINT. THE ELBOW SHALL BE RODDED TO THE FLANGE ABOVE THE FINISHED FLOOR IN THE VERTICAL DIRECTION AND RODDED TO THE FIRST JOINT OUTSIDE OF THE BUILDING FOOTING IN THE HORIZONTAL DIRECTION.

11. PROVIDE A CONCRETE THRUST BLOCK AT THE ELBOW WHERE THE UNDERGROUND PIPING CHANGES DIRECTION.

12. SEE CIVIL DRAWINGS FOR PIPING CONTINUATION AND DEVICES TO BE INSTALLED IN THE YARD.

13. THE RISER DETAIL IS CONCEPTUAL IN NATURE WITH THE MINIMUM QUANTITY AND TYPES OF SPRINKLER SYSTEM RISERS BEING REQUIRED FOR THIS PROJECT. ACTUAL QUANTITY AND TYPES OF SYSTEM RISERS REQUIRED FOR THIS PROJECT SHALL BE DETERMINED BY THE FIRE PROTECTION SPRINKLER SYSTEM CONTRACTOR. IF ADDITIONAL SYSTEM RISERS ARE NECESSARY, THE FIRE PROTECTION SPRINKLER SYSTEM CONTRACTOR SHALL INCLUDE THEM IN THEIR SCOPE OF WORK, PRIOR TO BIDDING.

14. THE PIPING UTILIZED FOR FULL FORWARD FLOW TESTING OF THE BACKFLOW PREVENTER SHALL BE THE SAME SIZE OR LARGER THAN THE SIZE OF THE BACKFLOW PREVENTER.

15. THE FIRE PROTECTION SPRINKLER SYSTEM CONTRACTOR SHALL PROVIDE A MINIMUM OF (1) 2½" HOSE VALVE FOR EACH 250 G.P.M. OF SYSTEM DEMAND.

16. THE FIRE PROTECTION SPRINKLER SYSTEM CONTRACTOR SHALL PROVIDE A 2'–0" X 2'–0" SPLASH BLOCK FOR ALL EXTERIOR FIRE PROTECTION DRAIN LOCATIONS.

17. A STATE OF WASHINGTON LEVEL III FIRE PROTECTION SPRINKLER CONTRACTOR SHALL DESIGN AND PREPARE THE UNDERGROUND SUBMITTAL DRAWINGS PER THE STATE OF WASHINGTON WAC 212–80–043(9).

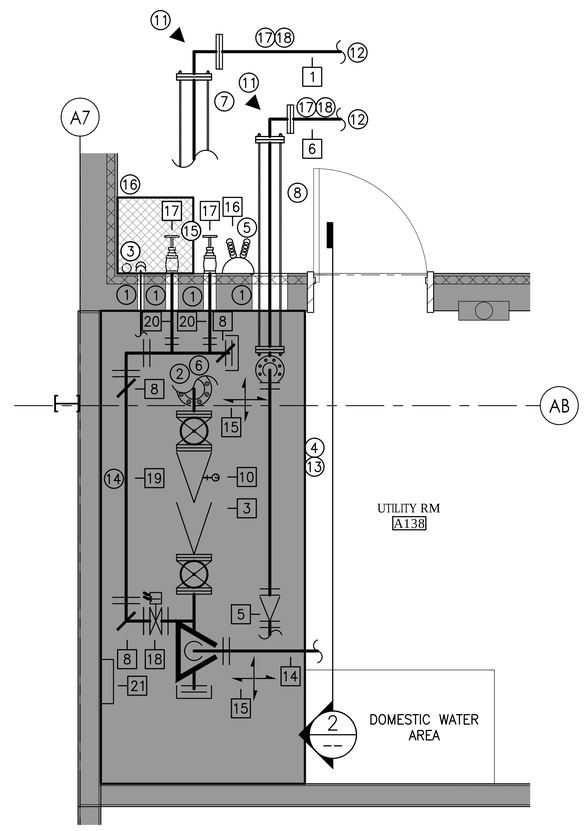
18. A STATE OF WASHINGTON LEVEL U UNDERGROUND CONTRACTOR SHALL PERFORM THE INSTALLATION OF THE UNDERGROUND PIPING PER THE STATE OF WASHINGTON WAC 212–80–043(2).

RISER EQUIPMENT LIST

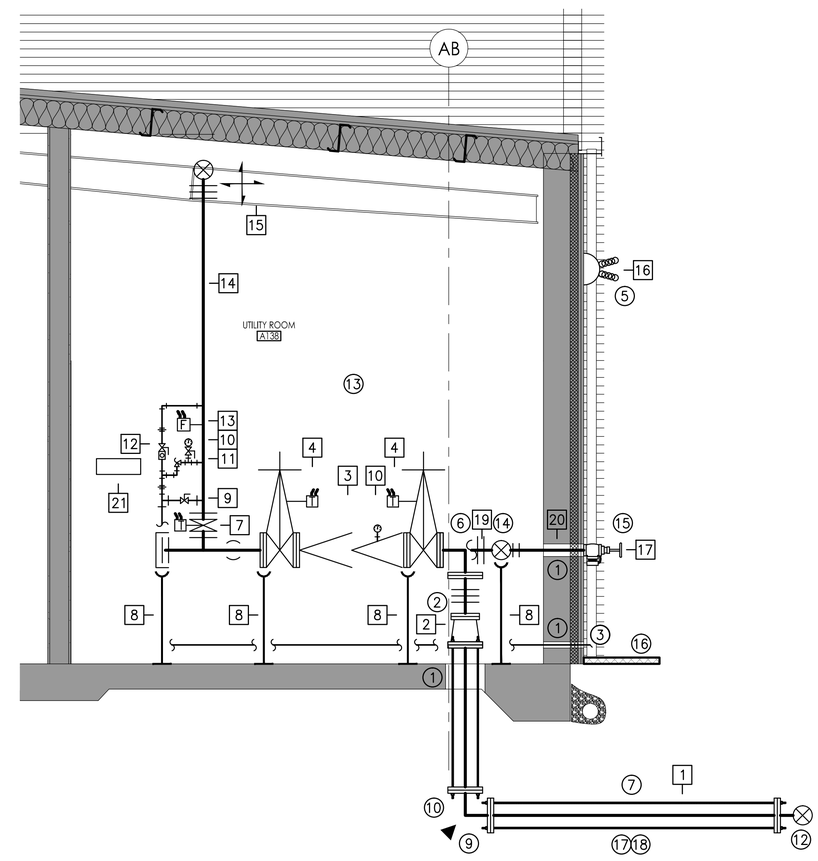
ITEM	QTY.	SIZE	DESCRIPTION
1	1	6"	UNDERGROUND FIRE PROTECTION SUPPLY PIPING
2	1	6" X 4"	FLANGED REDUCER (IF REQUIRED)
3	1	--	DOUBLE CHECK VALVE ASSEMBLY
4	2	--	OS&Y CONTROL VALVE SUPERVISORY SWITCH
5	1	4"	GROOVED SWING CHECK VALVE
6	1	4"	FIRE DEPARTMENT CONNECTION UNDERGROUND SUPPLY PIPING
7	1	--	GROOVED BUTTERFLY VALVE WITH INTEGRAL TAMPER SWITCH (VALVE NORMALLY OPEN)
8	5	--	PIPE STAND (REFERENCE THE 2001 EDITION OF N.F.P.A. #15 TABLES 6.3.2.2.1 & 6.3.2.2.2 FOR SIZE, HEIGHT, AND SPACING)
9	1	2"	MAIN DRAIN VALVE
10	2	¼"	WATER PRESSURE GAUGE
11	1	½"	PRESSURE RELIEF VALVE
12	1	1"	INSPECTOR'S TEST ASSEMBLY WITH SIGHT GLASS
13	1	--	WATER FLOW INDICATOR
14	1	--	FIRE PROTECTION WET SYSTEM SUPPLY PIPING
15	2	1"	4–WAY SEISMIC BRACE ASSEMBLY LOCATED AT THE TOP OF THE SYSTEM RISER
16	1	10"	24 VOLT D.C. ELECTRIC BELL MOUNTED ON THE EXTERIOR OF THE BUILDING AND POWERED THROUGH THE FIRE ALARM PANEL ALLOWING THE ELECTRIC BELL TO BE ON A BATTERY BACK–UP POWER SUPPLY
17	2	2½"	STRAIGHT OR ANGLED HOSE VALVE
18	1	--	GROOVED BUTTERFLY VALVE WITH INTEGRAL TAMPER SWITCH (VALVE NORMALLY CLOSED)
19	1	--	PIPE FOR FULL FORWARD FLOW TESTING OF THE BACKFLOW PREVENTER THAT IS SIZED NO SMALLER THAN THE BACKFLOW PREVENTER
20	2	2½"	GALVANIZED SCHEDULE 40 PIPE FOR FULL FORWARD FLOW TESTING OF THE BACKFLOW PREVENTER
21	–	12 HEAD	SPARE HEAD CABINET (INCLUDING HEAD WRENCHES)

APPROXIMATE MOUNTING ELEVATION

MAIN DRAIN DISCHARGE:	0'–6" A.E.G.
ANGLE HOSE VALVES:	3'–6" A.E.G.
SPARE HEAD CABINET:	5'–0" A.F.F.
ELECTRIC BELL:	10'–0" A.E.G.



1 FIRE PROTECTION RISER DETAIL PLAN VIEW
1/2" = 1'-0"



2 FIRE PROTECTION RISER DETAIL ELEVATION VIEW
1/2" = 1'-0"

0' 2' 4' 6' 8'
GRAPHIC SCALE 1/2" = 1'–0"

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2/05/2014

BID SET

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63 FOUR CORNERS RD
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FTA PROJECT NUMBER: WA-0180-02

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Sheet Title
FIRE PROTECTION RISER DETAIL, EQUIPMENT LIST, AND NOTES

Drawn By Checked By

Sheet Number
FX1.01

Sheet Number 114 Of 203

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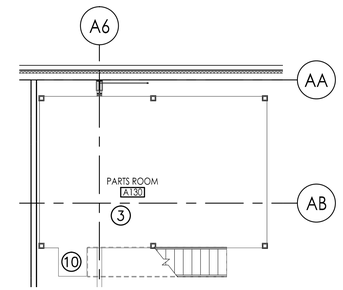
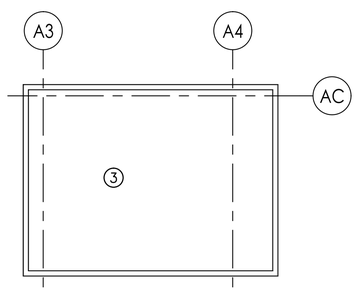


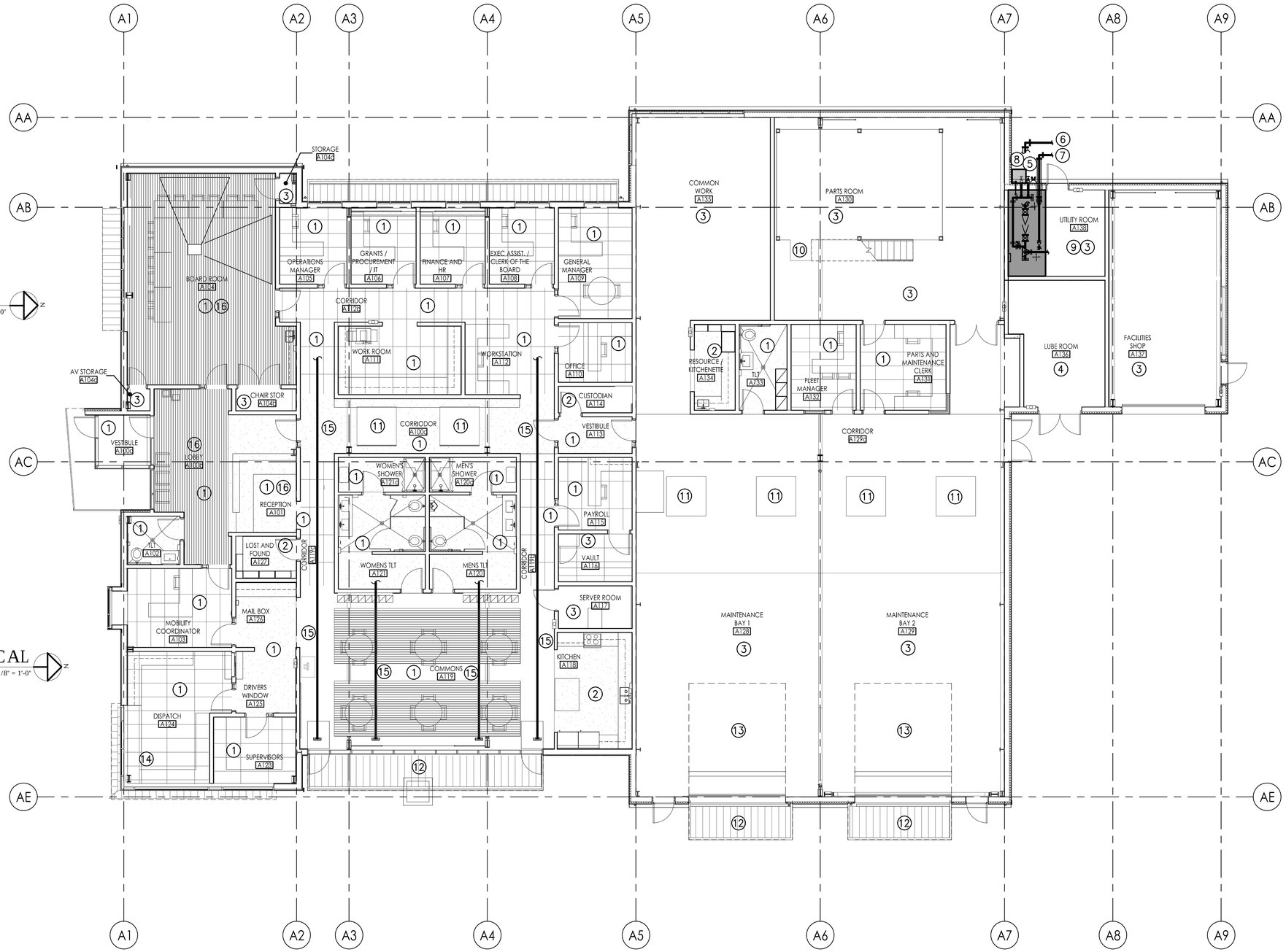
2 FIRE PROTECTION PARTS ROOM MEZZANINE PLAN
1/8" = 1'-0"

0' 8' 16' 24' 32'
GRAPHIC SCALE 1/8" = 1'-0"



3 FIRE PROTECTION MECHANICAL MEZZANINE PLAN
1/8" = 1'-0"

0' 8' 16' 24' 32'
GRAPHIC SCALE 1/8" = 1'-0"



1 FIRE PROTECTION FIRST FLOOR PLAN
1/8" = 1'-0"

0' 8' 16' 24' 32'
GRAPHIC SCALE 1/8" = 1'-0"

GENERAL NOTE

1. SEE SHEET FX0.02 FOR FLOOR PLAN GENERAL NOTES, FLOOR PLAN CONSTRUCTION NOTES, AND FLOOR PLAN SPECIAL NOTES.

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FIRE PROTECTION FIRST FLOOR AND MEZZANINE PLANS

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ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	LIGHTING
	RECESSED FLUORESCENT LIGHT FIXTURE
	SURFACE OR PENDANT MOUNT FLUORESCENT LIGHT FIXTURE (CIRCLE INDICATES RECESSED OR CONCEALED JUNCTION BOX)
	WALL MOUNT H.I.D. LIGHT FIXTURE
	WALL MOUNT COMPACT FLUORESCENT LIGHT FIXTURE
	SURFACE OR RECESSED H.I.D. OR FLUORESCENT LIGHT FIXTURE
	SURFACE OR RECESSED H.I.D. OR COMPACT FLUORESCENT LIGHT FIXTURE
	SURFACE OR PENDANT MOUNT STRIP LIGHT (CIRCLE INDICATES RECESSED OR CONCEALED JUNCTION BOX)
	FIXTURE WITH EMERGENCY BATTERY PACK. PROVIDE UNSWITCHED HOT LEG.
	EXIT LIGHT FIXTURE (PROVIDE DIRECTION ARROWS AS INDICATED) PROVIDE UNSWITCHED HOT LEG.
	WALL MOUNTED EXIT LIGHT FIXTURE (PROVIDE DIRECTION ARROWS AS INDICATED) PROVIDE UNSWITCHED HOT LEG.
	POLE LIGHT FIXTURE (ARROW INDICATES DIRECTION OF AIMING FOR OPTICS)
	RECEPTACLES
	DUPLEX RECEPTACLE (E INDICATES EXISTING TO BE REPLACED)
G	DUPLEX RECEPTACLE (G INDICATES GROUND FAULT CIRCUIT INTERRUPTER)
C	DUPLEX RECEPTACLE (C INDICATES ABOVE COUNTER)
	DEDICATED EQUIPMENT OUTLET
	FOURPLEX RECEPTACLE
	COMBINATION FLOOR BOX. FOURPLEX ISOLATED GROUND RECEPTACLE AND DATA JUNCTION BOX WITH SEPARATE 1" C. TO ACCESSIBLE CEILING OR NEAREST CABLE TRAY LOCATION, UNLESS NOTED OTHERWISE. MAINTAIN COMMUNICATION / DATA OUTLET REQUIREMENTS.
	DOUBLE DUPLEX DROP CORD WITH KELLUM GRIP
	SPECIAL PURPOSE OUTLET - 1PH, VOLTAGE AND AMPERES AS INDICATED
	SPECIAL PURPOSE OUTLET - 3PH, VOLTAGE AND AMPERES AS INDICATED
	MISCELLANEOUS
1	CONSTRUCTION NOTES
1	DEMOLITION NOTES
W	W INDICATES WEATHERPROOF FOR ALL DEVICES, PROVIDE LOCKING COVER ON RECEPTACLES.
WG	WG INDICATES WIRE GUARD
$	ALL DEVICES WITH LIGHT LINE WEIGHT INDICATES EXISTING TO BE RETAINED
AH1 / 1	MECHANICAL EQUIPMENT CONNECTION
EQ-XXXXX	EQUIPMENT CONNECTION

SYMBOL	DESCRIPTION
	SWITCHES
$	SINGLE POLE SWITCH
$K	SINGLE POLE KEYED SWITCH
$P	SWITCH WITH PILOT LIGHT (LIT WHEN ON)
$D	DIMMING SWITCH - SINGLE POLE
$LV	LOW VOLTAGE DAYLIGHT HARVESTING SWITCH. SEE SHEET Ea-501 FOR DETAIL.
$T	TIMER SWITCH
$OS	COMBINATION SWITCH / OCCUPANCY SENSOR
$3	THREE WAY SWITCH
$4	FOUR WAY SWITCH
a $$ b	MULTI-GANGED SWITCH (LOWER CASE LETTERS INDICATES SWITCHING)
	PUSH BUTTON EMERGENCY SHUTOFF SWITCH
	PUSH-BUTTON CONTROLLER
LC	LOW VOLTAGE LIGHTING CONTROL PANEL
PC	DAYLIGHT HARVESTING CONTROLS - PHOTO SENSOR
OS	WALL MOUNTED OCCUPANCY SENSOR (LIGHTING CONTROL)
OP	DAYLIGHT HARVESTING CONTROLS - COMBINED CEILING MOUNTED OCCUPANCY / PHOTO SENSOR CONTROLS
	EQUIPMENT AND WIRING
	CONDUIT STUB OUT (PROVIDE CONCRETE MARKER ON EXTERIOR)
	DEDICATED CONDUIT HOMERUN TO PANEL & CIRCUIT NUMBERS AS INDICATED ON PLANS
	RACEWAY CONCEALED IN WALL OR CEILING
	RACEWAY CONCEALED UNDERGROUND OR UNDER FLOOR SLAB
	MARKS INDICATE NUMBER OF #12 AWG UNLESS NOTED OTHERWISE
	GROUNDING CONDUCTOR
	FLEXIBLE CONDUIT
	GROUNDING SYSTEM PER CODE
J	JUNCTION BOX - SIZE PER CODE (F INDICATES FIRE ALARM SYSTEM)
$M	MANUAL STARTER
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	COMBINATION DISCONNECT / MAGNETIC MOTOR STARTER
	120/208 VOLT PANELBOARD (OR AT RATED VOLTAGE AS NOTED)
T	TRANSFORMER
HH	HANDHOLE
MH	MANHOLE - PRE-CAST CONCRETE W/COVER
TVSS	SURGE PROTECTOR
ADA	HANDICAP PUSH BUTTON CONNECTION
	UTILITY POLE

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Sheet Title
BUILDING A ELECTRICAL LEGEND

Drawn By **EW** Checked By **HS**

Sheet Number
Ea0.01

Sheet Number **116** Of **203**

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BUILDING A LIGHTING FIXTURE SCHEDULE

SYMBOL	MFR.	MODEL	CATALOG #	LAMP PROPERTIES QTY.	W	TYPE	TEMP.	VOLTS/WATTS V	W	DESCRIPTION
EX1	COOPER	SURELITES	C-X-1-G			LED		120 V	1 W	LED EXIT SIGN WITH SINGLE SIDED FACE.
PF1	COOPER	METALUX	DMF-N-SS-232-120-ER81-WG/DIF4FT-U	2	32 W	T8	4000 K	120 V	59 W	4' SUSPENDED INDUSTRIAL TYPE FLUORESCENT FIXTURE.
PF1E	COOPER	METALUX	DMF-N-SS-232-120-ER81-WG/DIF4FT-U-EL	2	32 W	T8	4000 K	120 V	59 W	4' SUSPENDED INDUSTRIAL TYPE FLUORESCENT FIXTURE. PROVIDE WITH EMERGENCY BALLAST.
PF2	COOPER	METALUX	I5-4-54T5-WG-120V-EBT1-UPL	4	54 W	T5	3500 K	120 V	236 W	4-LAMP HIGH BAY PENDANT FLUORESCENT FIXTURE.
PF2E	COOPER	METALUX	I5-4-54T5-WG-120V-EL-EBT1-UPL	4	54 W	T5	3500 K	120 V	236 W	4-LAMP HIGH BAY PENDANT FLUORESCENT FIXTURE. PROVIDE WITH EMERGENCY BALLAST.
PF3	COOPER	METALUX	I5-3-54T5-WG-120V-EBT1-UPL	3	54 W	T5	3500 K	120 V	177 W	3-LAMP HIGH BAY PENDANT FLUORESCENT FIXTURE.
PF5	COOPER	METALUX	I5-2-54T5-WG-120V-EBT1-UPL	2	54 W	T5	3500 K	120 V	118 W	2-LAMP HIGH BAY PENDANT FLUORESCENT FIXTURE.
PF5E	COOPER	METALUX	I5-2-54T5-WG-120V-EL-EBT1-UPL	2	54 W	T5	3500 K	120 V	118 W	2-LAMP HIGH BAY PENDANT FLUORESCENT FIXTURE. PROVIDE WITH EMERGENCY BALLAST.
PF6	BEGHELLI	ILLUMINA	BS100T5-4-HT-154W-120/277-CH	1	54 W	T5	3500 K	120 V	59 W	4' CHAIN HUNG PENDANT FLUORESCENT FIXTURE. WET LOCATION, CLASS 1, DIV, 2 LISTED.
PF6E	BEGHELLI	ILLUMINA	BS100T5-4-HT-154W-120/277-CH-EL	1	54 W	T5	3500 K	120 V	59 W	4' CHAIN HUNG PENDANT FLUORESCENT FIXTURE. WET LOCATION, CLASS 1, DIV, 2 LISTED. PROVIDE WITH EMERGENCY BALLAST.
RL1	COOPER	METALUX	24EN-LD1-54-UNV-L840-CD-1			LED	4000 K	120 V	54 W	RECESSED 2X4 LED TROFFER - 5400 LUMENS.
RL2	COOPER	PORTFOLIO	LD6A-15-D010TE-ERW6A15-9-40-6LW1-H			LED	4000 K	120 V	22 W	RECESSED 6" LED DOWNLIGHT CAN FIXTURE - 1500 LUMENS
RL2E	COOPER	PORTFOLIO	LD6A-15-D010TE-EMBOD-ERW6A15-9-40-6LW1-H			LED	4000 K	120 V	22 W	RECESSED 6" LED DOWNLIGHT CAN FIXTURE - 1500 LUMENS. PROVIDE W/ EMERGENCY BALLAST W/ REMOTE TEST SWITCH.
RL3	COOPER	PORTFOLIO	LD6A-15-D010TE-ERW6A15-9-40-6LW1-H-LGSKT6IP66			LED	4000 K	120 V	22 W	RECESSED 6" LED DOWNLIGHT CAN FIXTURE - 1500 LUMENS. PROVIDE WITH IP66 GASKET SEAL.
RL3E	COOPER	PORTFOLIO	LD6A-15-D010TE-EMBOD-ERW6A15-9-40-6LW1-H-LGSKT6IP66			LED	4000 K	120 V	22 W	RECESSED 6" LED DOWNLIGHT CAN FIXTURE W/ EMERGENCY BALLAST - 1500 LUMENS. PROVIDE WITH IP66 GASKET SEAL.
RL4	COOPER	METALUX	22EN-LD1-34-UNV-L840-CD-1			LED	4000 K	120 V	34 W	RECESSED 2X2 LED TROFFER - 3466 LUMENS.
RL5	COOPER	NEORAY	22-DR-2-L40-ETG-8-1-DD-S92HT			LED	4000 K	120 V	90 W	8'X3"WIDE LINEAR SLOT RECESSED LED FIXTURE - 5400 LUMENS.
RL6	COOPER	PORTFOLIO	LD8A-40-1-DE010-ER8A40-9-40-8LM1E-LI			LED	4000 K	120 V	58 W	8" LED DOWNLIGHT CAN FIXTURE - 4000 LUMENS.
RL6E	COOPER	PORTFOLIO	LD8A-40-1-DE010-ER8A40-9-40-8LM1E-LI-EMBOD			LED	4000 K	120 V	58 W	8" LED DOWNLIGHT CAN FIXTURE - 4000 LUMENS. PROVIDE WITH EMERGENCY BALLAST WITH REMOTE TEST SWITCH.
SF1	COOPER	METALUX	SA-232IMA-120V-EB81	2	32 W	T8	4000 K	120 V	59 W	4' SURFACE MOUNTED WRAP AROUND FLUORESCENT FIXTURE.
SF1E	COOPER	METALUX	SA-232IMA-120V-EL-EB81	2	32 W	T8	4000 K	120 V	59 W	4' SURFACE MOUNTED WRAP AROUND FLUORESCENT FIXTURE. PROVIDE WITH EMERGENCY BATTERY BALLAST.
SL1	LIGHTING SCIENCE	SYMETRIE	RND-NW-F-XXX-WRXX-BLK-L			LED	4000 K	120 V	27 W	56" LINEAR ADJUSTABLE LED STRIP LIGHT FIXTURE - 1161 LUMENS.
SL2	LIGHTING SCIENCE	SYMETRIE	RND-NW-F-XXX-WRXX-BLK-L			LED	4000 K	120 V	45 W	90" LINEAR ADJUSTABLE LED STRIP LIGHT FIXTURE - 1935 LUMENS.
UC1	COOPER	METALUX	UC48T8132	1	32 W	T8	4000 K	120 V	31 W	4' UNDERCABINET FLUORESCENT LIGHT FIXTURE
WF1	COOPER	METALUX	BAU-2-17-120-EB81	2	17 W	T8	4000 K	120 V	35 W	2' WALL MOUNTED VANITY FIXTURE
WF2	COOPER	METALUX	BAU-2-32-120-EB81	2	32 W	T8	4000 K	120 V	59 W	4' WALL MOUNTED VANITY FIXTURE
WL1	COOPER	INVUE	ENT-B01-LED-E1-BL3-XX			LED	4000 K	120 V	27 W	WALL MOUNTED LED FIXTURE WITH TYPE 3 DISTRIBUTION - 1998 LUMENS.
WL1E	COOPER	INVUE	ENT-B01-LED-E1-BL3-XX-BBB-CWB			LED	4000 K	120 V	27 W	WALL MOUNTED LED FIXTURE WITH TYPE 3 DISTRIBUTION - 1998 LUMENS. PROVIDE WITH EMERGENCY BALLAST.
WL2	COOPER	INVUE	ENT-B02-LED-E1-BL3-XX			LED	4000 K	120 V	51 W	WALL MOUNTED LED FIXTURE WITH TYPE 3 DISTRIBUTION - 3996 LUMENS.
WL2E	COOPER	INVUE	ENT-B02-LED-E1-BL3-XX-BBB-CWB			LED	4000 K	120 V	51 W	WALL MOUNTED LED FIXTURE WITH TYPE 3 DISTRIBUTION - 3996 LUMENS. PROVIDE WITH EMERGENCY BALLAST.

LIGHTING CONTROL PANEL - LCP

CIRCUITING RELAY# r#	CIRCUIT#	CONTROL SWITCH#	OTHER	INFO. TOTAL VA	AREA/ROOM OF CONTROL
1	PA4 - 10		TIMECLOCK	483	BUILDING A - PERIMETER EXTERIOR FIXTURES
2	PA4 - 12		TIMECLOCK	FUTURE	FUTURE BUS SHELTER
3	PA4 - 14		TIMECLOCK	256	LIGHTING - SIGNAGE, FLAGPOLE, FRONT BOLLARDS
4	PA4 - 16		TIMECLOCK	618	FRONT PARKING LIGHT POLES - 50% LIGHT OUTPUT *
5	PA4 - 18		TIMECLOCK	924	FRONT PARKING LIGHT POLES - 50% LIGHT OUTPUT *
6	PA4 - 20		TIMECLOCK	618	BUS YARD LIGHT POLES - 50% LIGHT OUTPUT *
7	PA4 - 22		TIMECLOCK	924	BUS YARD LIGHT POLES - 50% LIGHT OUTPUT *
8					
9					
10					
11					
12					
13					
14					
15					
16					

NOTE:

1. LIGHTING RELAY CIRCUIT REQUIRED BY NREC TO AUTOMATICALLY SHUT-OFF DURING NON-BUSINESS HOURS. COORDINATE WITH OWNER FOR TIME SCHEDULE SETTINGS.
2. * EXTERIOR LIGHT POLE FIXTURES SHALL BE PROGRAM TO SWITCH DOWN TO 50% OUTPUT 1-HOUR AFTER BUSINESS AND SWITCH UP TO 100% OUTPUT 1-HOUR BEFORE BUSINESS HOURS. COORDINATE EXACT HOURS WITH OWNER.
3. FOR ALL LIGHTING CONTROLS WHICH INCLUDE DAYLIGHT OR OCCUPANT SENSING AUTOMATIC CONTROLS, AUTOMATIC SHUT-OFF CONTROLS, OCCUPANCY SENSORS, OR AUTOMATIC TIME SWITCHES, AND THE LIGHT CONTROLS SHALL COMPLY WITH WASHINGTON STATE ENERGY CODE TESTING AND COMMISSIONING DOCUMENTATION REQUIREMENTS PER C408.3 OF WASHINGTON STATE ENERGY CODE. A COMPLETE REPORT OF TEST PROCEDURES AND RESULTS SHALL BE PREPARED BY THE PROJECT COMMISSIONING AGENT OR ELECTRICAL CONTRACTOR AND FILED WITH THE OWNER.

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BUILDING A LIGHTING FIXTURE SCHEDULE

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EQUIPMENT CONNECTION SCHEDULE

EQUP #	DESCRIPTION	LOAD PROPERTIES WATTS	MCA	FLA	CIRCUIT PROPERTIES PANEL	CKT #	V	Ø	RUN PROPERTIES CONDUIT SIZE	WIRE PROPERTIES AWG-Cu	#H	#N	CONNECTION TYPE
5645	SCISSOR LIFT (NEW)	12,249	0	34	PA3	1,3,5	208	3	1"	#6	3	1	FUSED. DISC.
8190	TRAPEZE	360	0	3	PA3	7	120	1	3/4"	#12	1	1	HARD-WIRE
8190	TRAPEZE	360	0	3	PA1E	11	120	1	3/4"	#12	1	1	HARD-WIRE
8190	TRAPEZE	360	0	3	PA1E	13	120	1	3/4"	#12	1	1	HARD-WIRE
8760	HOSE REEL (NEW)	500	0	4.2	PA3	9	120	1	3/4"	#12	1	1	PLUG
9355	FILTER, MECHANICAL	1,920	0	16	PA3	11	120	1	3/4"	#12	1	1	PLUG
21401	PORTABLE BATTERY CHARGER	120	1	1	PA1E	15	120	1	3/4"	#12	1	1	PLUG
21402	PORTABLE BATTERY CHARGER	120	1	1	PA1E	17	120	1	3/4"	#12	1	1	PLUG
21531	AIR COMPRESSOR	13,320	0	37	PA1E	37,39,41	208	3	1"	#6	3	1	PLUG
22051	DRILL PRESS	2,160	18	18	PA3	13	120	1	3/4"	#10	1	1	PLUG
22601	GRINDER, BENCH MOUNTED	120	1	1	PA3	15	120	1	3/4"	#12	1	1	PLUG
24000	BRAKE ROTOR LATHE	1,680	0	14	PA3	17	120	1	3/4"	#12	1	1	PLUG
24401	TIRE MOUNTER/DEMOUNTER	4,575	12.7	12.7	PA3	19,21,23	208	3	3/4"	#12	3	1	PLUG
24551	TIRE MOUNTER/DEMOUNTER	4,575	12.7	12.7	PA3	25,27,29	208	3	3/4"	#12	3	1	PLUG
25391	HYDRAULIC PRESS	1,920	16	16	PA3	31	120	1	3/4"	#12	1	1	PLUG
27081	CUTOFF SAW	120	1	1	PA3	33	120	1	3/4"	#12	1	1	PLUG
27091	CUTOFF WHEEL SAW	1,920	16	16	PA3	35	120	1	3/4"	#12	1	1	PLUG
27201	TABLE SAW	120	1	1	PA3	37	120	1	3/4"	#12	1	1	PLUG
29001	MIG WELDER	6,864	33	33	PA3	39,41	208	1	1"	#6	2	1	PLUG
29101	ARC WELDER	18,720	90	90	PA3	2,4	208	1	1 1/2"	#1	2	1	PLUG
29251	PLASMA WELDER	4,160	20	20	PA3	6,8	208	1	3/4"	#10	2	1	PLUG
35601	PARTS WASHER	204	1.7	1.7	PA1E	33	120	1	3/4"	#12	1	1	PLUG
49101	WHEEL BALANCER	180	1.5	1.5	PA3	12	120	1	3/4"	#12	1	1	PLUG
50306	DIESEL CART	1,000	40	8.3	PA1E	9	120	1	3/4"	#12	1	1	PLUG
57941	COLUMN LIFT	14,411	40	40	PA1E	19,21,23	208	3	1"	#6	3	1	PLUG
84901	FILTER PRESS	420	3.5	3.5	PA1E	2	120	1	3/4"	#12	1	1	PLUG
99501	NITROGEN GENERATOR	1,200	10	10	PA3	16	120	1	3/4"	#12	1	1	PLUG
99801	USED OIL DRUM	360	3	3	PA1E	35	120	1	3/4"	#12	1	1	FUSED. DISC.

MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

UNIT NO	LOAD PROPERTIES MOTORS #1 HP	#2 HP	WATTS	FLA	MCA	CIRCUIT PROPERTIES PANEL	CKT #	V	Ø	RUN PROPERTIES CONDUIT SIZE	WIRE PROPERTIES AWG-Cu	#H	#N	MANUAL STARTER FURN. BY	MAGNETIC STARTER FURN. BY	FUSED DISC. FURN BY	DUCT SMOKE DETECTOR (SEE NOTE #1)
CP 1	0.168		240	2	0	H	1	120	1	3/4"	#12	1	1	EC			
EF 1	1		1,657	0	0	H	3,5,7	208	3	3/4"	#12	3	1		EC		
EF 2	0		70	0.6	0	H	9	120	1	3/4"	#12	1	1	EC			
EF 3	1		1,657	0	0	H	11,13,15	208	3	3/4"	#12	3	1		EC		
EF 4	0.75		1,656	0	0	H	17	120	1	3/4"	#12	1	1	EC			
EF 5	0.75		1,656	0	0	H	19	120	1	3/4"	#12	1	1	EC			
EWH 1	0		500	4.2	0	H	21	120	1	3/4"	#12	1	1	EC			
HWT 1			5,000	24	0	H	23,25	208	2	3/4"	#10	2	1			EC	
ICU 1	0		26,047	0	72.3	H	30,32,34	208	3	1 1/2"	#2	3	1			EC	EC
ICU 2	0		27,632	0	76.7	H	36,38,40	208	3	2"	#1	3	1			EC	EC
ICU 3	0		146	0	0.7	H	29,31	208	1	3/4"	#12	2	1			EC	-
OCU 1	0		12,393	0	34.4	H	18,20,22	208	3	1 1/4"	#6	3	1			EC	
OCU 2	0		12,393	0	34.4	H	24,26,28	208	3	1 1/4"	#6	3	1			EC	
OCU 3	0		3,640	0	17.5	H	2,4	208	1	3/4"	#10	2	1			EC	
SMP 1	0		792	6.6	0	H	27	120	1	3/4"	#12	1	1	EC			
UH 1	0		40,000	111	0	MDB	8,10,12	208	3	2"	1/0	3	1			EC	
UH 2	0		50,000	138.8	0	MDB	14,16,18	208	3	2"	2/0	3	1			EC	
UH 3	0		5,000	24	0	MDB	20,22	208	1	3/4"	#10	2	1			EC	
UH 4	0		10,000	48.1	0	MDB	24,26	208	1	1 1/4"	#4	2	1			EC	-
VEF 1	3		3,816	10.6	0	PA1E	25,27,29	208	3	3/4"	#12	3	1			EC	
VEF 2	3		3,816	10.6	0	H	10,12,14	208	3	3/4"	#12	3	1			EC	
VER 1	0.33		828	7.2	0	PA1E	31	115	1	3/4"	#12	1	1			EC	
VER 2	0.33		828	7.2	0	H	16	115	1	3/4"	#12	1	1			EC	

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Project Numbers
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Sheet Title
MECHANICAL CONNECTION SCHEDULE

Drawn By **EW** Checked By **HS**

Sheet Number
Ea0.03

Sheet Number **118** Of **203**

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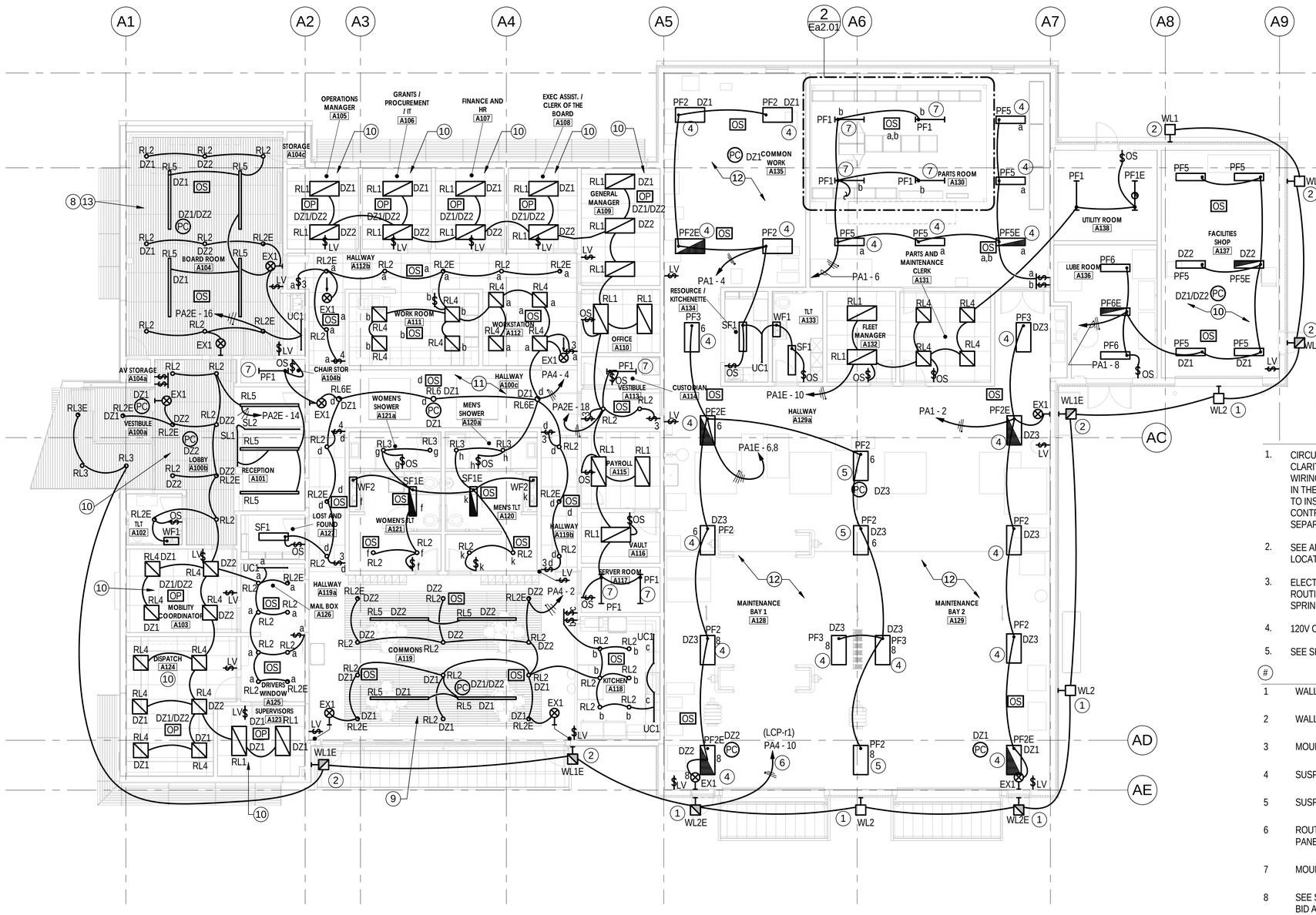
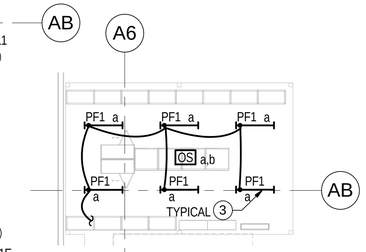


1 BUILDING A - LIGHTING REFLECTED CEILING PLAN

1/8" = 1'-0"



2 PARTS ROOM A130 BELOW MEZZANINE PLAN

1/8" = 1'-0"

GENERAL NOTES

1. CIRCUITS, WIRE SIZE AND WIRE HASH MARKS ARE SHOWN FOR CIRCUIT CLARITY BUT MAY NOT NECESSARILY REPRESENT THE COMPLETE WIRING COUNT OR SIZES FOR CONNECTING CIRCUITS SHOWN. INCLUDE IN THE BID ALL REQUIRED WIRING SIZES AND NUMBER OF CONDUCTORS TO INSTALL ALL CIRCUITS SHOWN. FOR MULTI-CIRCUIT HOMERUNS, CONTRACTOR CAN CHOOSE TO UPSIZE CONDUCTORS OR PROVIDE SEPARATE CONDUITS. SEE NEC TABLE 310.15(B)(3)(a).
2. SEE ARCHITECTURAL EXTERIOR ELEVATION PLANS FOR EXACT LOCATIONS OF ALL EXTERIOR WALL MOUNTED LIGHT FIXTURES.
3. ELECTRICAL CONTRACTOR MUST CLOSELY COORDINATE ALL CONDUIT ROUTING AND DEVICE LOCATIONS WITH THE MECHANICAL AND FIRE SPRINKLER CONTRACTORS..
4. 120V CIRCUITS OVER 150 FEET IN LENGTH SHALL BE #10 CONDUCTORS.
5. SEE SHEET Ea3.01 FOR PANEL BOARD LOCATIONS.

CONSTRUCTION NOTES

#	
1	WALL MOUNT FIXTURE AT +14'-6" AFF.
2	WALL MOUNT FIXTURE AT +9'-0" AFF.
3	MOUNT FIXTURES BELOW MEZZANINE STRUCTURE.
4	SUSPEND FIXTURE 4' BELOW ROOF STRUCTURE.
5	SUSPEND FIXTURE 4' BELOW BEAM.
6	ROUTE EXTERIOR LIGHTING CIRCUITS THROUGH THE LIGHTING CONTROL PANEL "LCP". SEE SHEET Ea-002 FOR SCHEDULE.
7	MOUNT FIXTURE TIGHT TO STRUCTURE.
8	SEE SHEET Ea5.01 DETAIL 1 FOR LIGHITNG CONTROL DETAIL. IF ALTERNATE BID AA-2 OPTION FOR WOOD SLOT CEILING IS ACCEPTED CEILING WILL BE INACCESSIBLE. ALL LOW VOLTAGE WIRING SHALL BE IN CONDUIT FROM THE DEVICES TO THE ROOM CONTROL PANEL. ROOM CONTROL PANEL SHALL BE LOCATED ABOVE HALLWAY A112b T-BAR CEILING.
9	SEE SHEET Ea5.01 DETAIL 2 FOR LIGHTING CONTROL DETAIL.
10	SEE SHEET Ea5.02 DETAIL 2 FOR LIGHTING CONTROL DETAIL.
11	SEE SHEET Ea5.03 DETAIL 1 FOR LIGHTING CONTROL DETAIL.
12	SEE SHEET Ea5.02 DETAIL 1 FOR LIGHTING CONTROL DETAIL.
13	SEE SHEET Ea5.03 FOR ALTERNATE BID AA-2 WOOD SLOT CEILING FIXTURE AND DEVICE INSTALLATION DETAILS.

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Sheet Title
BUILDING A LIGHTING PLAN

Drawn By **EW** Checked By **HS**

Sheet Number
Ea2.01

Sheet Number 119 Of 203

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GENERAL NOTES

1. CIRCUITS, WIRE SIZE AND WIRE HASH MARKS ARE SHOWN FOR CIRCUIT CLARITY BUT MAY NOT NECESSARILY REPRESENT THE COMPLETE WIRING COUNT OR SIZES FOR CONNECTING CIRCUITS SHOWN. INCLUDE IN THE BID ALL REQUIRED WIRING SIZES AND NUMBER OF CONDUCTORS TO INSTALL ALL CIRCUITS SHOWN. FOR MULTI-CIRCUIT HOMERUNS, CONTRACTOR CAN CHOOSE TO UPSIZE CONDUCTORS OR PROVIDE SEPARATE CONDUITS. SEE NEC TABLE 310.15(B)(3)(a).
2. COORDINATE EXACT LOCATION AND FUSED DISCONNECT SIZE OF ALL MECHANICAL EQUIPMENTS BEFORE ROUGH-IN.
3. ELECTRICAL CONTRACTOR MUST COORDINATE ALL CONDUIT ROUTING AND DEVICE LOCATIONS WITH THE MECHANCAL AND FIRE SPRINKLER.
4. COORDINATE RECEPTACLE LOCATIONS WITH ARCHITECTURAL INTERIOR ELEVATIONS.
5. COORDINATE RECEPTACLE CONDUIT ROUTING WITH EXTERIOR WINDOWS. SEE ARCHITECTURAL INTERIOR ELEVATION.
6. 120V CIRCUITS OVER 150 FEET IN LENGTH SHALL BE #10 CONDUCTORS.

CONSTRUCTION NOTES

1 1000A AUTOMATIC TRANSFER SWITCH, 208Y/120V, 3PH, 4-WIRE, 4-POLE, SUSE RATED.

2 1000A METER SECTION PER JEFFPUD REQUIREMENTS. PROVIDE WITH NEMA 3R ENCLOSURE.

3 LIGHTING CONTROL PANEL.

4 PROVIDE POWER CONNECTION TO ADA DOOR OPERATOR. PROVIDE 1/2" CONDUIT AND JUNCTION BOX ROUGH-IN FOR ADA DOOR PUSH BUTTON. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.

5 OVERHEAD DOOR OPERATOR. PROVIDE 1/2" CONDUITS FOR THE WALL PUSH BUTTON CONTROLLER. COORDINATE EXACT MOUNTING LOCATION AND HEIGHT WITH DOOR INSTALLER.

CONSTRUCTION NOTES

6 1" UNDERGROUND CONDUIT WITH (4) #6AWG-CU PLUS GROUND.

7 1" UNDERGROUND RIGID METAL CONDUIT FOR INCLINOMETER WIRING.

8 STUB CONDUIT 18" AFF. WITH EXPLOSION PROOF SEAL-OFF FITTINGS PER MANUFACTURERS RECOMENDATIONS.

9 COORDINATE PIT CONDUIT STUB LOCATION PER MANUFACTURER'S RECOMENDATION. PROVIDE EXPLOSION PROOF SEAL-OFF FITTINGS.

10 MOTORIZED PROJECTOR SCREEN 120V, 1PH. PROVIDE 3/4" CONDUIT AND JUNCTION BOX ROUGH-IN FOR CONTROLS. COORDINATE LOCATION AND MOUNTING HEIGHT WITH INSTALLER.

CONSTRUCTION NOTES

11 TV POWER OUTLET MOUNT AT +72". COORDINATE EXACT LOCATION AND HEIGHT OF DEVICE WITH OWNER PROVIDED EQUIPMENT.

12 ELECTRIC COOK TOP / RANGE, 50A, 120/208V, 1PH, 3-WIRE.

13 REFRIGIRATOR, 120V, 1PH, 20A.

14 DEDICATED RECEPTACLE FOR ACCESS CONTROL PANELBOARD LOCATED ABOVE T-BAR CEILING.

15 FIRE ALARM CONTROL PANEL AND BATTERY CIRCUIT, 120V, 1PH. COORDINATE CONNECTION POINT WITH THE FIRE ALARM CONTRACTOR.

CONSTRUCTION NOTES

16 PROVIDE RECEPTACLE OUTLET FOR TIMECARD STAMP AND VACATION STAMP EQUIPMENT. COORDINATE EXACT HEIGHT AND LOCATION WITH THE OWNER.

17 PROVIDE HARDWIRE CONNECTION OR RECEPTACLE OUTLET FOR PEDESTAL ACCESS CONTROL POWER SUPPLY AND INTERCOM POWER SUPPLY. LOCATE ALL EQUIPMENT UNDERNEATH COUNTER.

18 NEATLY SURFACE MOUNT OUTLET AND CONDUIT TO THE SIDE OF STRUCTURAL COLUMN.

19 ALL RECEPTACLE OUTLETS IN SHOP AND MAINTENACE AREAS SHALL BE MOUNTED AT +48" AFF WITH GFI OUTLETS.

20 COORDINATE INSTALLATION WITH CASEWORK INSTALLER.

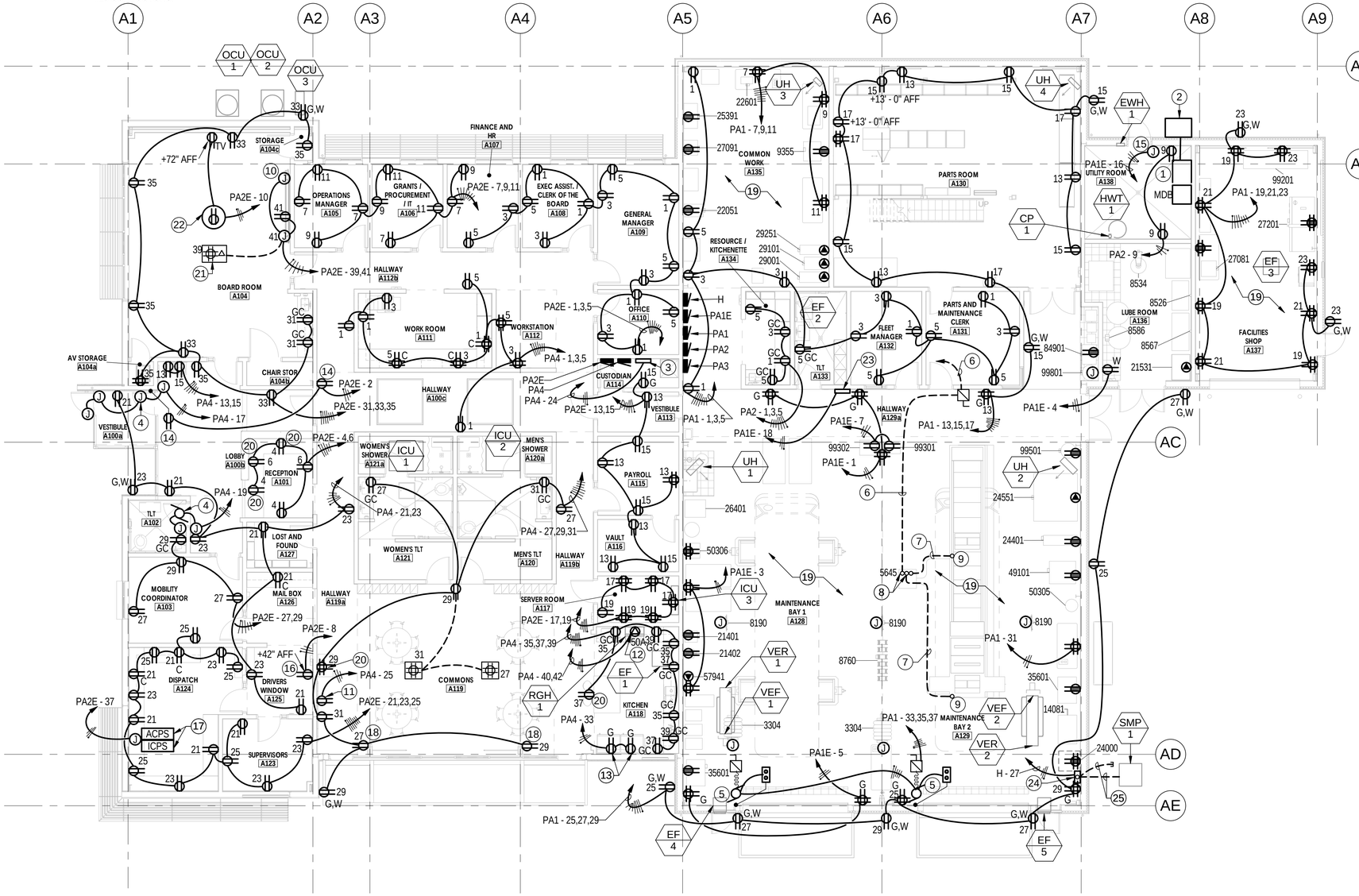
21 PROVIDE A WIREMOLD (LEGRAND) EFB6S-OG FLOORBOX AT THIS LOCATION.

22 PROJECTOR MOUNT LOCATION. PRIOR TO LOW VOLTAGE OR 120VAC POWER ROUGH-IN, COORDINATE WITH THE OWNER FOR EXACT PLACEMENT REQUIREMENTS FOR OPTIMAL THROW DISTANCE TO PROJECTION SCREEN. COORDINATE WITH ARCHITECT PRIOR TO CUTTING INTO SLOTTED WOOD CEILING.

23 FUEL TANK MONITOR PANEL, 120V, 1PH, 20A.

24 SEWAGE PUMP CONTROL PANEL

25 PROVIDE UNDERGROUND CONDUIT AND CONDUCTORS TO SEWAGE PUMP FROM CONTROL PANEL. IN ADDITION, PROVIDE EXTRA 1" UNDERGROUND CONDUIT FOR CONTROLS WIRING. PROVIDE PROPER EXPLOSION PROOF SEALS AT BOTH ENDS OF CONDUIT PER NEC.



1 **BUILDING A - POWER PLAN**

1/8" = 1'-0"

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BUILDING A POWER PLAN

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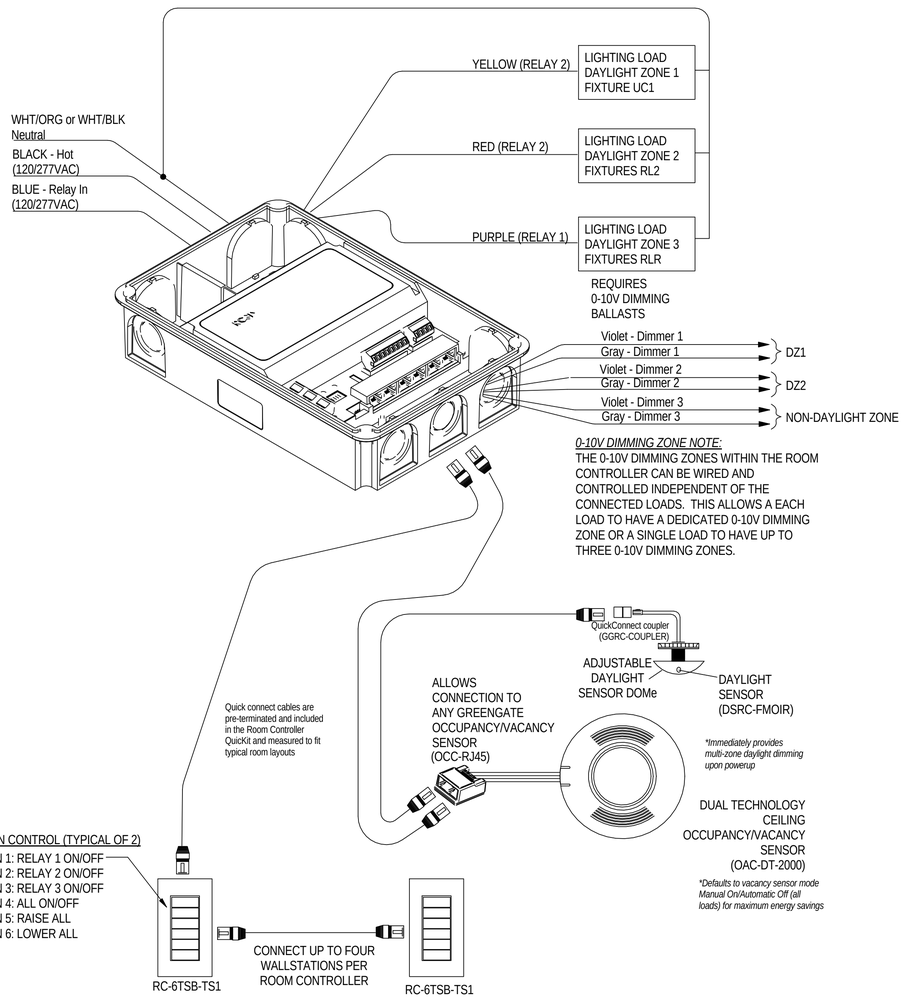

1 DAYLIGHT HARVESTING CONTROL DIAGRAM - BOARD ROOM A104

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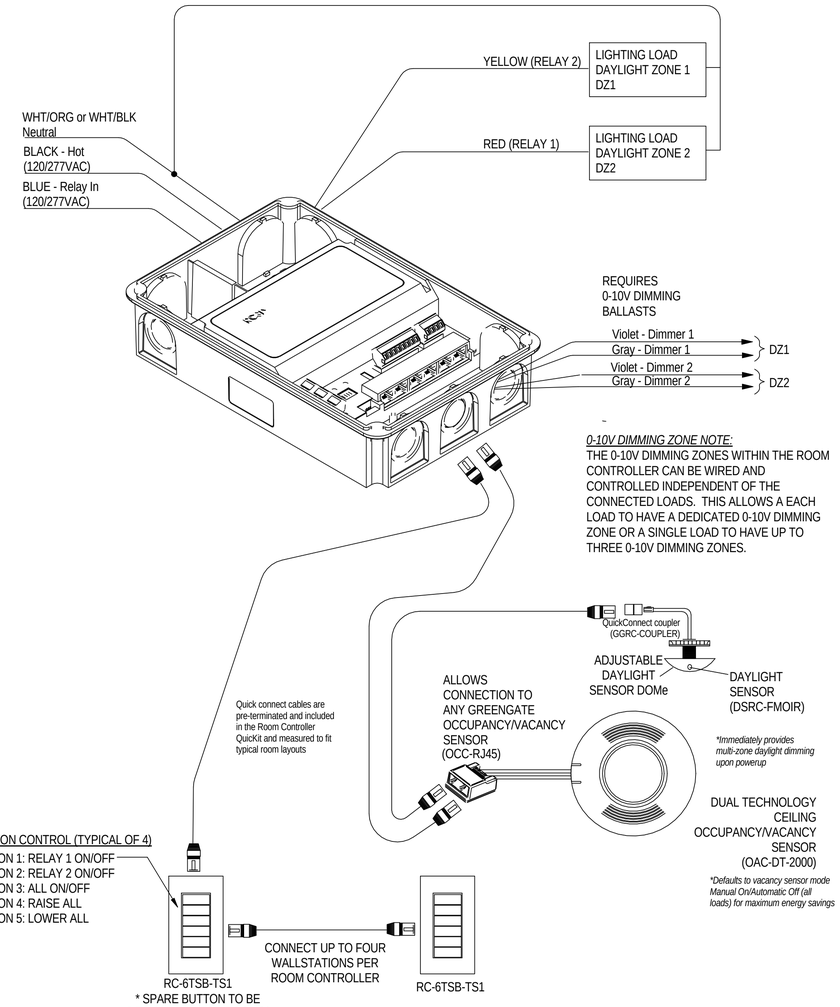

2 DAYLIGHT HARVESTING CONTROL DIAGRAM - COMMONS A119

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Sheet Title
BUILDING A ELECTRICAL DETAILS

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Sheet Number
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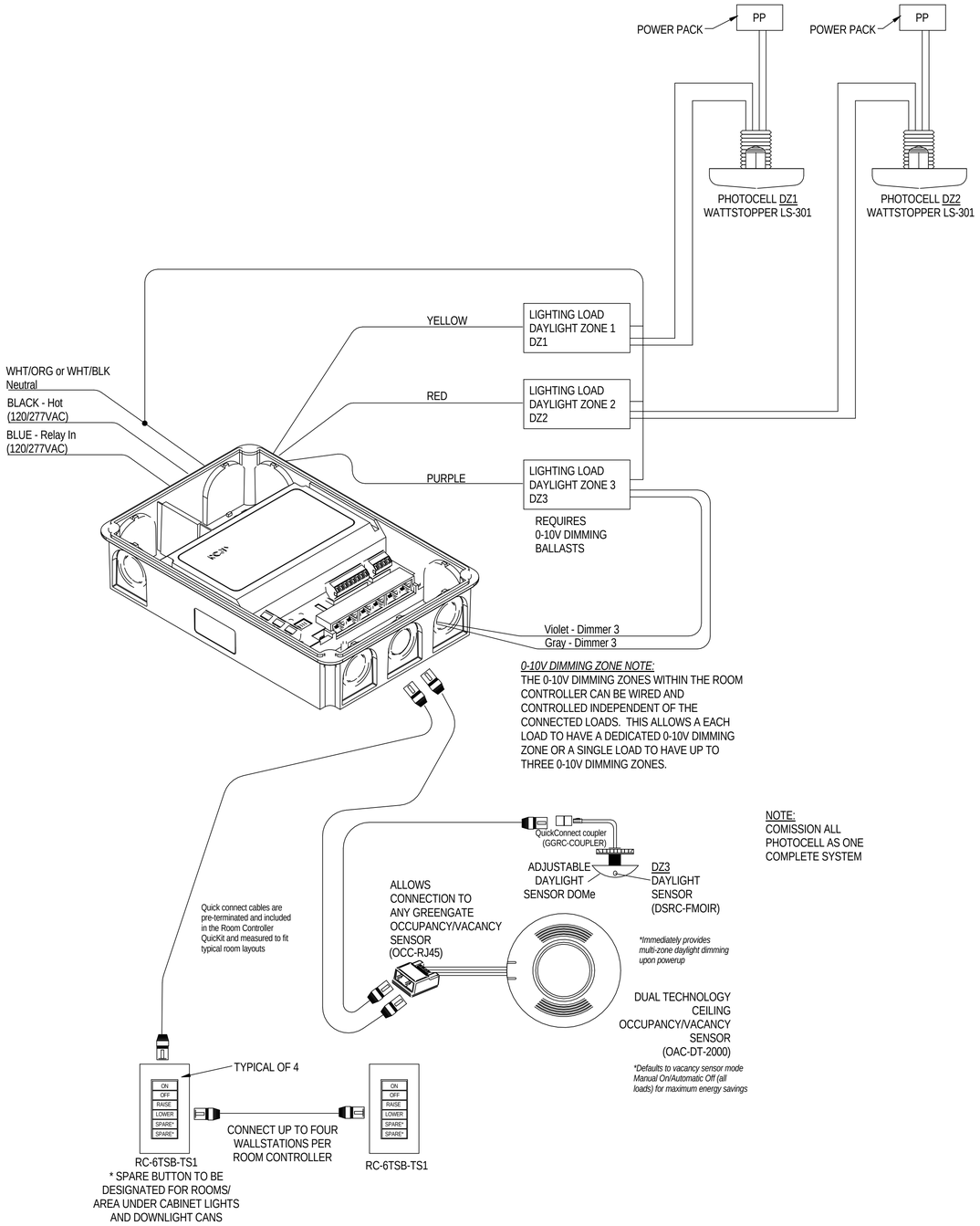

1 DAYLIGHT HARVESTING CONTROL DIAGRAM - MAINTENANCE BAY 1 (A128) AND 2 (A129)

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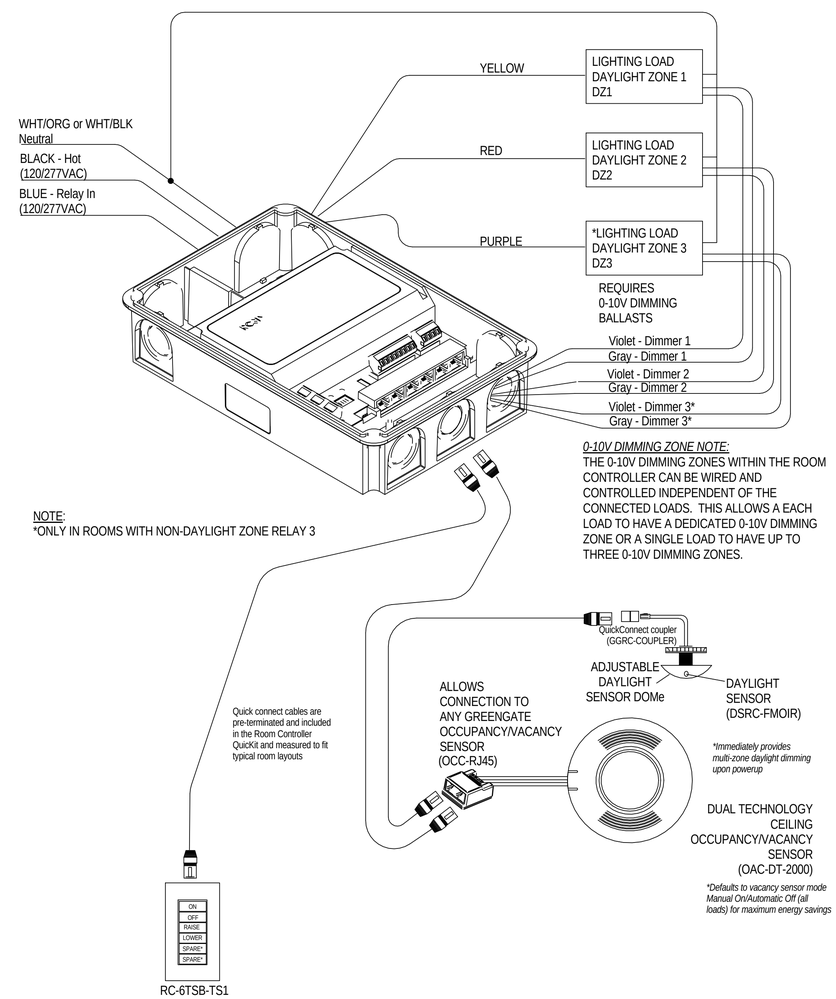

2 INDIVIDUAL ROOM DAYLIGHT HARVESTING CONTROLS

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BUILDING A ELECTRICAL DETAILS

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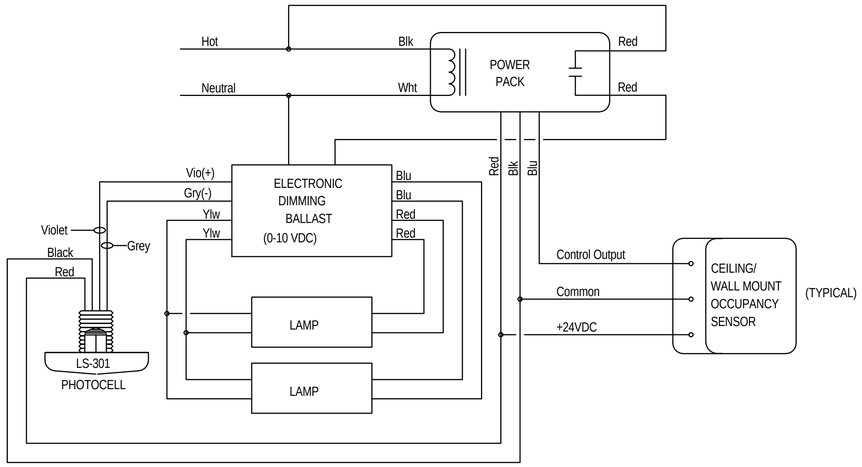
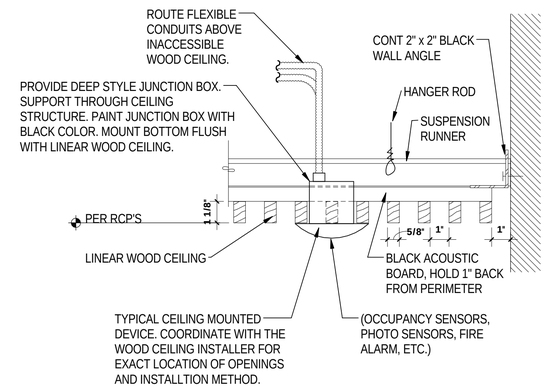


OPERATION :
OCCUPANCY SENSOR SWITCHES LIGHTS ON/OFF. WHEN SPACE IS OCCUPIED, THE PHOTOCELL DIMS THE LIGHTS AS DAYLIGHT INCREASES.

NOTE :
THIS DIAGRAM IS BASED ON A WATTSTOPPER LS-301 WITH REMOTE HANDHELD SETUP. PROVIDE (2) REMOTE HAND HELD CONTROLLER FOR OWNER.

1 STAND ALONE DAYLIGHT HARVESTING CONTROLS - ROOMS A135 AND A100c

NOT TO SCALE



2 ALTERNATE BID AA-2 - SLOT CEILING DEVICE MOUNTING DETAIL

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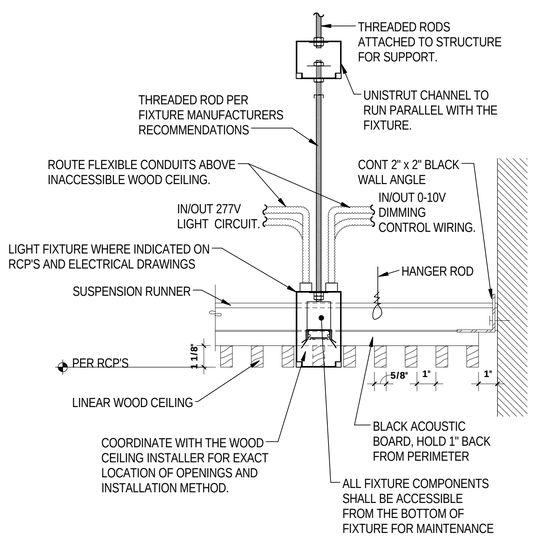
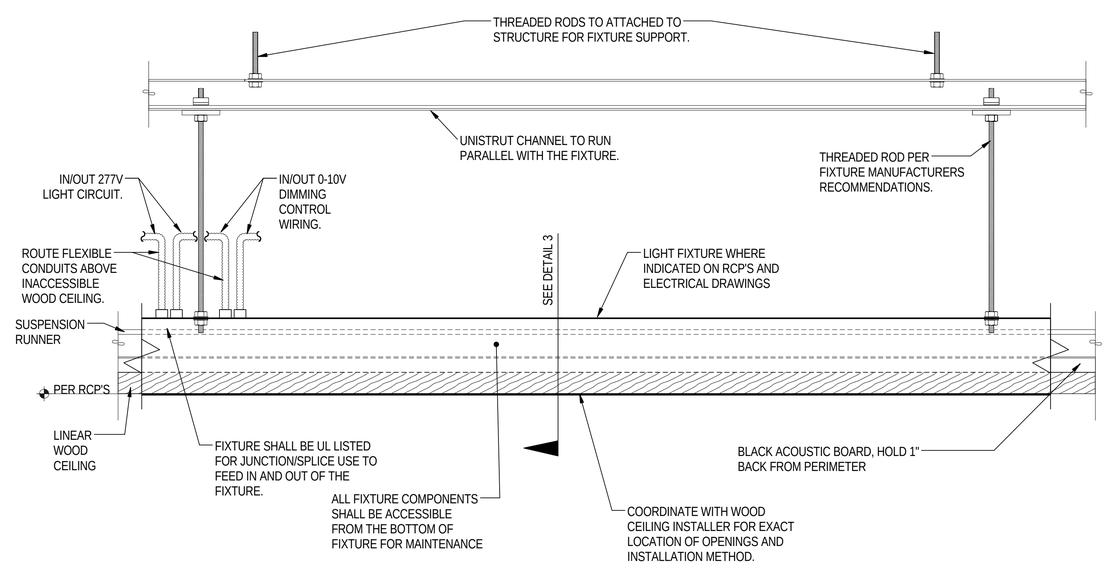


3 ALTERNATE BID AA-2 - SLOT CEILING LIGHT FIXTURE MOUNTING DETAIL FRONT VIEW

NOT TO SCALE



4 ALTERNATE BID AA-2 - SLOT CEILING LIGHT FIXTURE MOUNTING DETAIL SIDE VIEW

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Project Numbers
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FTA PROJECT NUMBER: WA-0180-02

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11 04 13	100% DD
12 30 13	AGENCY SET
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Sheet Title
BUILDING A ELECTRICAL DETAILS

Drawn By **EW** Checked By **HS**

Sheet Number
Ea5.03

Sheet Number 123 Of 203

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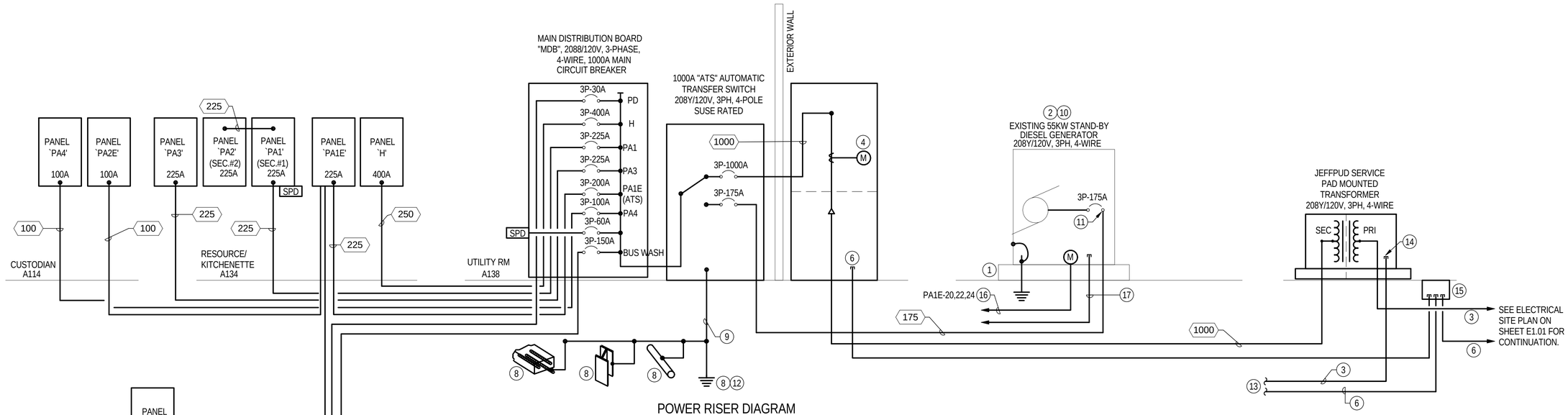

POWER RISER DIAGRAM

DIAGRAMMATIC

FEEDER LEGEND

AMPS SYMBOL	NUMBER OF RUNS	CONDUIT SIZE	NUMBER OF WIRES	CONDUCTOR SIZE - AWG
30	(1)	1"	(4)	COPPER: #10
				GROUND-Cu: #10
60	(1)	1-1/4"	(4)	COPPER: #4
			(1)	GROUND-Cu: #10
100	(1)	2"	(4)	COPPER: #1
			(1)	GROUND-Cu: #8
150	(1)	2"	(4)	COPPER: #1/0
			(1)	GROUND-Cu: #6
175	(1)	2"	(4)	COPPER: #2/0
			(1)	GROUND-Cu: #6
225	(1)	2-1/2"	(4)	COPPER: #4/0
			(1)	GROUND-Cu: #4
250	(1)	3"	(4)	COPPER: #250
			(1)	GROUND-Cu: #4
400	(1)	4"	(4)	COPPER: #600
			(1)	GROUND-Cu: #3
1000	(3)	3"	(4)	COPPER: #400MCM

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE AND COMPLY TO ALL REQUIREMENTS OF JEFFERSON PUD (JEFFPUD).
2. COORDINATE CONDUIT ROUTING AND TRENCHING WITH OTHER UTILITIES.
3. SEE SHEET E1.01 FOR ELECTRICAL SITE PLAN.
4. POWER DISTRIBUTION AIC RATINGS BASED ON A UTILITY TRANSFORMER HAVING NO MORE THAN 39,700AIC. RATINGS MAY CHANGE WITH DIFFERENT SERVICE TRANSFORMER PROVIDED BY JEFFPUD. CONTRACTOR SHALL VERIFY WITH JEFFPUD FOR EXACT TRANSFORMER AIC PRIOR TO ORDERING ALL ELECTRICAL EQUIPMENT.
5. MEASURE SECONDARY VOLTAGE OF STEP DOWN TRANSFORMERS AFTER INSTALLATION IS COMPLETE AND OPERATING NORMALLY. NO BRANCH PANEL SHALL HAVE MORE THAN 2% VOLTAGE DROP, ADJUST TAPS AS REQUIRED.
6. SIZES OF ALL PANEL FEEDER CONDUITS SHOWN ON THIS PLAN ARE FOR METALLIC CONDUIT RUN. CONTRACTOR MAY NEED TO UPSIZE CONDUIT FOR ALL UNDERGROUND PVC CONDUIT RUNS TO ACCOMMODATE GROUND CONDUCTOR AND GROUNDING SIZED PER NEC.

CONSTRUCTION NOTES

1. PROVIDE 4" HOUSEKEEPING CONCRETE PAD.
2. INSTALL EXISTING GENERATOR SET FROM THE EXISTING FACILITY KOHLER MODEL 50ROZJ SERIAL # 0640809. ELECTRICAL CONTRACTOR SHALL CONSULT THE FACTORY AND PROVIDE, BUT NOT LIMITED TO THE FOLLOWING MODIFICATIONS TO EXISTING GENERATOR TO MEET CURRENT NEC CODE AND AHJ REQUIREMENTS:
   - BATTERY MOUNT AND MOUNTING HARDWARE
   - EXTERNAL, SIDE-MOUNT SPILL BUCKET AND HARDWARE
   - VENT PIPE AND HARDWARE
   - ROOF SEAL FOR VENT PIPE
   - BATTERY CHARGER
   - BATTERY
   - MUFFLER MOUNTING HARDWARE
   - BLOCK HEATER AND "Y" CABLE WITH THERMOSTAT
   - RAIN CAP, 2.5"
   - BATTERY TRAY
3. PROVIDE (1) 4" CONDUIT PER JEFFERSON PUD (JEFFPUD) REQUIREMENTS.
4. PROVIDE 1000A METER SECTION, 208Y/120V, 3PH ,NEMA 3R, 4-WIRE PER JEFFPUD STANDARDS.
5. NOT USED.
6. IN ADDITION TO JEFFPUD PRIMARY CONDUIT, PROVIDE 2" CONDUIT FROM UTILITY POLE TO THE CT ENCLOSURE FOR FUTURE NOANET.

CONSTRUCTION NOTES

7. PROVIDE 1" CONDUIT AND REQUIRED CONTROLS WIRING BETWEEN THE GENERATOR AND TRANSFER SWITCH.
8. PROVIDE BUILDING SERVICE GROUND ROD, AND GROUND CONNECTIONS TO THE BUILDING STEEL, CONCRETE REBAR, AND MAIN WATER PIPE PER NEC REQUIREMENTS.
9. PROVIDE #3/0 ELECTRODE CONDUCTOR.
10. ELECTRICAL CONTRACTOR SHALL COORDINATE REMOVAL AND TRANSPORTATION FOR EXISTING ELECTRICAL EQUIPMENT FROM THE EXISTING FACILITY TO THE NEW SITE. DISCONNECT AND REMOVE THE EXISTING ATS AND GENERATOR FROM EXISTING BUILDING ELECTRICAL SYSTEM . ELECTRICAL CONTRACTOR SHALL KEEP THE EXISTING BUILDING ELECTRICAL SYSTEM INTACT AND OPERATION.
11. CONNECT TO EXISTING 3P-175A GENERATOR CIRCUIT BREAKER.
12. PROVIDE NEW 3/4" X 10' COPPER CLAD GROUND ROD.
13. TO FUTURE TRUCK WASH BUILDING. SEE SHEET E1.01 FOR CONDUIT ROUTING. INSTALL FUTURE CONDUITS PER JEFFPUD STANDARDS.
14. STUB SPARE CONDUIT ON THE PRIMARY SIDE COMPARTMENT FOR FUTURE EXPANSION.
15. PROVIDE JUNCTION BOX PER JEFFPUD NOAMT REQUIREMENTS.
16. PROVIDE POWER AND CONNECTION FOR GENERATOR CONTROLS, BATTERY CHARGER AND BLOCK HEATER.
17. PROVIDE 1" SPARE CONDUIT TO UTILITY ROOM A138.

CHARLES A. HERSTON
STATE OF WASHINGTON
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2/5/2014

BID SET

Project Title
JEFFERSON TRANSIT AUTHORITY

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Project Numbers
2013-006

FTA PROJECT NUMBER: WA-0180-02

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Sheet Title
ELECTRICAL ONE-LINE DIAGRAM

Drawn By **EW** Checked By **HS**

Sheet Number
Ea6.00

Sheet Number 124 Of 203

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PANEL: MDB | PHASE: 3 | VOLTAGE: 208Y/120V | FEED TYPE:
LOCATION: UTILITY ROOM A138 | MOUNT: SURFACE | WIRE: 4 | BOTTOM | 1000 A MCB
TYPE: NEMA 1 | POLES: 42 | SF MAINS: | 32,000 AIC MINIMUM

LC	#	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	#	LC
L; R; E	1	PA1	400	3	9592 VA	4714 VA					3	100	PA4	2	L; R; D; K
--	3	--	--	--			8892 VA	13658 VA			--	--	--	4	--
--	5	--	--	--					8224 VA	6934 VA	--	--	--	6	--
Motor; L;...	7	PA1E	20	3	25323 VA	13333 VA					3	150	UH-1	8	H
--	9	--	--	--			20991 VA	13333 VA			--	--	--	10	--
--	11	--	--	--					22285 VA	13333 VA	--	--	--	12	--
Motor; H;...	13	H	400	3	34821 VA	16667 VA					3	200	UH-2	14	H
--	15	--	--	--			32542 VA	16667 VA			--	--	--	16	--
--	17	--	--	--					32761 VA	16667 VA	--	--	--	18	--
E	19	PA3	225	3	23133 VA	2500 VA					2	30	UH-3	20	H
--	21	--	--	--			21865...	2500...			--	--	--	22	--
--	23	--	--	--					18345...	5000...	2	60	UH-4	24	H
L; H; R;...	25	PD	30	3	419 VA	5000...					--	--	--	26	--
--	27	--	--	--			1680...	13500...			3	150	R WASH EQUIP SHED D101	28	E
--	29	--	--	--					1180...	13500...	--	--	--	30	--
	31					13500...					--	--	--	32	--
	33													34	
	35													36	
	37													38	
	39													40	
	41													42	
		Total Connected Load (VA):			149002 VA		145628 VA		138229 VA						
		Total Connected Current (A):			1251		1223		1152						

L (125%) = 22298 VA
R<10,0001(100%) = 10000 VA
R>10,000 (50%) = 18280 VA
RECEPTS TOTAL = 28280 VA
AW (ESTIMATED DEMAND) =
AW (DEMAND FACTOR) =

H (100%) = 65619 VA
Motor-LARGE (125%) = 34541 VA
Motor-OTHER (100%) = 17606 VA
MOTOR TOTAL = 52147 VA
RW (ESTIMATED DEMAND) =
RW (DEMAND FACTOR) =

WH (100%) = 5000 VA
K (65%) = 4700 VA
A (100%) =
D (100%) = 6296 VA
E (80%) = 144950 VA

Panel Totals	
Total Conn. Load:	336203 VA
Total Conn. Current:	933 A
Total Demand Load:	329290 VA
Total Demand Current:	914 A

Notes: L = LIGHTING, R = RECEPTACLES, Motor = MOTOR LOADS, H = ELECTRIC HEAT, WH = WATER HEATER, K = KITCHEN EQUIP., A = APPLIANCES, D = DEDICATED LOADS, SF = SUB-FEEDS, E = EQUIP., AW = ARC WELDER, RW = RESISTIVE WELDER

PANEL: H | PHASE: 3 | VOLTAGE: 208Y/120V | FEED TYPE:
LOCATION: HALLWAY A129a | MOUNT: SURFACE | WIRE: 4 | BOTTOM | 400 A MLO
TYPE: NEMA 1 | POLES: 42 | SF MAINS: | 19,000 AIC MINIMUM

LC	#	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	#	LC
Motor	1	CP-1	20	1	240 VA	1820 VA					2	30	OCU-3	2	H
Motor	3	EF-1	20	3			552 VA	1820 VA			--	--	--	4	--
--	5	--	--	--					552 VA	0 VA	1	20	SPARE	6	--
--	7	--	--	--	552 VA	0 VA					1	20	SPARE	8	--
Motor	9	EF-2	20	1			70 VA	1272 VA			3	20	VEF-2	10	Motor
Motor	11	EF-3	20	3					552 VA	1272 VA	--	--	--	12	--
--	13	--	--	--	552 VA	1272 VA					--	--	--	14	--
--	15	--	--	--			552 VA	828 VA			1	20	VER-2	16	
Motor	17	EF-4	20	1					1656 VA	4131 VA	3	50	OCU-1	18	H
Motor	19	EF-5	20	1	1656 VA	4131 VA					--	--	--	20	--
H	21	EWH-1	20	1			500 VA	4131 VA			--	--	--	22	--
WH	23	HWT-1	30	2					2500 VA	4131 VA	3	50	OCU-2	24	H
--	25	--	--	--	2500 VA	4131 VA					--	--	--	26	--
Motor	27	SEWAGE PUMP	20	1			792 VA	4131 VA			--	--	--	28	--
H	29	ICU-3	20	2					73 VA	8682 VA	3	90	ICU-1	30	H
--	31	--	--	--	73 VA	8682 VA					--	--	--	32	--
--	33	Spare	20	1			0 VA	8682 VA			--	--	--	34	--
--	35	Spare	20	1					0 VA	9211 VA	3	100	ICU-2	36	H
--	37	Spare	20	1	0 VA	9211 VA					--	--	--	38	--
	39							9211 VA			--	--	--	40	--
	41									0 VA	1	20	SPARE	42	--
		Total Connected Load (VA):			34821 VA		32542 VA		32761 VA						
		Total Connected Current (A):			290		271		273						

L (125%) =
R<10,0001(100%) = 0 VA
R>10,000 (50%) = 0 VA
RECEPTS TOTAL =
AW (ESTIMATED DEMAND) =
AW (DEMAND FACTOR) =

H (100%) = 55119 VA
Motor-LARGE (125%) = 34541 VA
Motor-OTHER (100%) = 11544 VA
MOTOR TOTAL = 46085 VA
RW (ESTIMATED DEMAND) =
RW (DEMAND FACTOR) =

WH (100%) = 5000 VA
K (65%) =
A (100%) =
D (100%) =
E (80%) =

Panel Totals	
Total Conn. Load:	99296 VA
Total Conn. Current:	276 A
Total Demand Load:	106204 VA
Total Demand Current:	295 A

Notes: L = LIGHTING, R = RECEPTACLES, Motor = MOTOR LOADS, H = ELECTRIC HEAT, WH = WATER HEATER, K = KITCHEN EQUIP., A = APPLIANCES, D = DEDICATED LOADS, SF = SUB-FEEDS, E = EQUIP., AW = ARC WELDER, RW = RESISTIVE WELDER

PANEL: PA1 (SEC. 1) | PHASE: 3 | VOLTAGE: 208Y/120V | FEED TYPE:
LOCATION: HALLWAY A129a | MOUNT: SURFACE | WIRE: 4 | BOTTOM | 225 A MLO
TYPE: NEMA1, W/ FEED THRU LUGS | POLES: 42 | SF MAINS: | 16,000 AIC MINIMUM

LC	#	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	#	LC
R	1	R ROOM A131, A132, A135, A129a	20	1	720 VA	1123 VA					1	20	LIGHTING - MAINTENACE BAY 2	2	L
R	3	R ROOM A131, A132, A135	20	1			900 VA	1128 VA			1	20	LIGHTING - A133, A134, A135	4	L
R	5	R ROOM A131, A132, A133, A135	20	1					900 VA	1180 VA	1	20	LIGHTING - A130	6	L
R	7	R COMMON WORK A135	20	1	360 VA	885 VA					1	20	LIGHTING - A136, A137	8	L
R	9	R COMMON WORK A135	20	1			360 VA	0 VA			1	20	SPARE	10	--
R	11	R COMMON WORK A135	20	1					360 VA	0 VA	1	20	SPARE	12	--
R	13	R ROOM A129a, A130	20	1	900 VA	0 VA					1	20	SPARE	14	--
R	15	R ROOM A130, 000, A129a	20	1			1080 VA							16	
R	17	R PARTS ROOM A130	20	1					900 VA					18	
R	19	R ROOM A137	20	1	1080 VA									20	
R	21	R ROOM A137	20	1			1080 VA							22	
R	23	R ROOM A137	20	1					1080 VA					24	
R	25	R ROOM A129, 000	20	1	720 VA									26	
R	27	R SITE 000	20	1			540 VA							28	
R	29	R ROOM A129, 000	20	1					540 VA					30	
R	31	R MAINTENANCE BAY 2 A129	20	1	360 VA									32	
E	33	MAINT. BAY OVERHEAD GARAGE DOORS	20	3			1104 VA							34	
--	35	--	--	--					1104 VA					36	
--	37	--	--	--	1104 VA									38	
	39													40	
	41													42	
		Total Connected Load (VA):			9592 VA		8892 VA		8224 VA						
		Total Connected Current (A):			81		75		69						

L (125%) = 5395 VA
R<10,0001(100%) = 10000 VA
R>10,000 (50%) = 1480 VA
RECEPTS TOTAL = 11480 VA
AW (ESTIMATED DEMAND) =
AW (DEMAND FACTOR) =

H (100%) =
Motor-LARGE (125%) = 0 VA
Motor-OTHER (100%) = 0 VA
MOTOR TOTAL =
RW (ESTIMATED DEMAND) =
RW (DEMAND FACTOR) =

WH (100%) =
K (65%) =
A (100%) =
D (100%) =
E (80%) = 9432 VA

Panel Totals	
Total Conn. Load:	26708 VA
Total Conn. Current:	74 A
Total Demand Load:	26307 VA
Total Demand Current:	73 A

Notes: L = LIGHTING, R = RECEPTACLES, Motor = MOTOR LOADS, H = ELECTRIC HEAT, WH = WATER HEATER, K = KITCHEN EQUIP., A = APPLIANCES, D = DEDICATED LOADS, SF = SUB-FEEDS, E = EQUIP., AW = ARC WELDER, RW = RESISTIVE WELDER

PANEL: PA2 (SEC. 2) | PHASE: 3 | VOLTAGE: 208Y/120V | FEED TYPE:
LOCATION: HALLWAY A129a | MOUNT: SURFACE | WIRE: 4 | TOP | 225 A MLO
TYPE: NEMA 1 | POLES: 42 | SF MAINS: | 15,000 AIC MINIMUM

LC	#	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	#	LC
R	1	R RESOURCE / KITCHENETTE A134	20	1	180 VA	720 VA					1	20	YARD BLOCK HEATER OUTLETS	2	E
R	3	R RESOURCE / KITCHENETTE A134	20	1			180 VA	360 VA			1	20	YARD BLOCK HEATER OUTLETS	4	E
R	5	R RESOURCE / KITCHENETTE A134	20	1					360 VA	720 VA	1	20	YARD BLOCK HEATER OUTLETS	6	E
--	7	SPARE	20	1	0 VA	720 VA					1	20	YARD BLOCK HEATER OUTLETS	8	E
R	9	UTILITY ROOM A138 RECETACLES	20	1			360 VA	720 VA			1	20	YARD BLOCK HEATER OUTLETS	10	E
--	11	SPARE	20	1					0 VA	360 VA	1	20	YARD BLOCK HEATER OUTLETS	12	E
--	13	SPARE	20	1	0 VA	720 VA					1	20	YARD BLOCK HEATER OUTLETS	14	E
--	15	SPARE	20	1			0 VA	1080 VA			1	20	YARD BLOCK HEATER OUTLETS	16	E
	17									720 VA	1	20	YARD BLOCK HEATER OUTLETS	18	E
	19													20	
	21													22	
	23													24	
	25													26	
	27													28	
	29													30	
	31													32	
	33													34	
	35													36	
	37													38	
	39													40	
	41													42	
		Total Connected Load (VA):			2340 VA		2700 VA		2160 VA						
		Total Connected Current (A):			20		23		18						

L (125%) =
R<10,0001(100%) = 1080 VA
R>10,000 (50%) = 0 VA
RECEPTS TOTAL = 1080 VA
AW (ESTIMATED DEMAND) =
AW (DEMAND FACTOR) =

H (100%) =
Motor-LARGE (125%) = 0 VA
Motor-OTHER (100%) = 0 VA
MOTOR TOTAL =
RW (ESTIMATED DEMAND) =
RW (DEMAND FACTOR) =

WH (100%) =
K (65%) =
A (100%) =
D (100%) =
E (80%) = 6120 VA

Panel Totals	
Total Conn. Load:	7200 VA
Total Conn. Current:	20 A
Total Demand Load:	7200 VA
Total Demand Current:	20 A

Notes: L = LIGHTING, R = RECEPTACLES, Motor = MOTOR LOADS, H = ELECTRIC HEAT, WH = WATER HEATER, K = KITCHEN EQUIP., A = APPLIANCES, D = DEDICATED LOADS, SF = SUB-FEEDS, E = EQUIP., AW = ARC WELDER, RW = RESISTIVE WELDER

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2/14/2014

BID SET

Project Title
JEFFERSON TRANSIT AUTHORITY

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PORT TOWNSEND, WASHINGTON 98368

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Sheet Title
PANEL SCHEDULES

Drawn By: **EW** | Checked By: **HS**

Sheet Number
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Sheet Number **125** Of **203**

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PANEL: PA3 PHASE: 3 VOLTAGE: 208Y/120V FEED TYPE:
LOCATION: HALLWAY A129a MOUNT: SURFACE WIRE: 4 BOTTOM 225 A MLO
TYPE: NEMA 1 POLES: 42 SF MAINS: 16,000 AIC MINIMUM

LC	#	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	#	LC
E	1	5645 - SCISSOR LIFT (NEW)	50	3	4083 VA	9360 VA					2	125	29101 - ARC WELDER	2	E
--	3	--	--	--			4083 VA	9360 VA			--	--	--	4	--
--	5	--	--	--					4083 VA	2080 VA	2	30	29251 - PLASMA WELDER	6	E
E	7	8190 - TRAPEZE	20	1	360 VA	2080 VA					--	--	--	8	--
E	9	8760 - HOSE REEL (NEW)	20	1			500 VA							10	
E	11	9355 - FILTER, MECHANICAL	20	1					1920 VA	180 VA	1	20	49101 - WHEEL BALANCER	12	E
E	13	22051 - DRILL PRESS	30	1	2160 VA									14	
E	15	22601 - GRINDER, BENCH MOUNTED	20	1			120 VA	1200 VA			1	20	99501 - NITROGEN GENERATOR	16	E
E	17	24000 - BRAKE ROTOR LATHE	20	1					1680 VA	0 VA	1	20	SPARE	18	--
E	19	24401 - TIRE MOUNTER/DEMOUNTER	20	3	1525 VA	0 VA					1	20	SPARE	20	--
--	21	--	--	--			1525 VA	0 VA			1	20	SPARE	22	--
--	23	--	--	--					1525 VA					24	
E	25	24551 - TIRE MOUNTER/DEMOUNTER	20	3	1525 VA									26	
--	27	--	--	--			1525 VA							28	
--	29	--	--	--					1525 VA					30	
E	31	25391 - HYDRUALIC PRESS	20	1	1920 VA									32	
E	33	27081 - CUTOFF SAW	20	1			120 VA							34	
E	35	27091 - CUTOFF WHEEL SAW	20	1					1920 VA					36	
E	37	27201 - TABLE SAW	20	1	120 VA									38	
E	39	29001 - MIG WELDER	50	2			3432 VA							40	
--	41	--	--	--					3432 VA					42	

	A	B	C
Total Connected Load (VA):	23133 VA	21865 VA	18345 VA
Total Connected Current (A):	197	187	153

L (125%) =
R<10,0001(100%) = 0 VA
R>10,000 (50%) = 0 VA
RECEPTS TOTAL =
AW (ESTIMATED DEMAND) =
AW (DEMAND FACTOR) =

H (100%) =
Motor-LARGE (125%) = 0 VA
Motor-OTHER (100%) = 0 VA
MOTOR TOTAL =
RW (ESTIMATED DEMAND) =
RW (DEMAND FACTOR) =

WH (100%) =
K (65%) =
A (100%) =
D (100%) =
E (80%) = 63344 VA

Panel Totals	
Total Conn. Load:	63344 VA
Total Conn. Current:	176 A
Total Demand Load:	63344 VA
Total Demand Current:	176 A

Notes: L = LIGHTING, R = RECEPTACLES, Motor = MOTOR LOADS, H = ELECTRIC HEAT, WH = WATER HEATER, K = KITCHEN EQUIP., A = APPLIANCES, D = DEDICATED LOADS, SF = SUB-FEEDS, E = EQUIP., AW = ARC WELDER, RW = RESISTIVE WELDER

PANEL: PA4 PHASE: 3 VOLTAGE: 208Y/120V FEED TYPE:
LOCATION: CUSTODIAN A114 MOUNT: SURFACE WIRE: 4 BOTTOM 100 A MLO
TYPE: NEMA 1 POLES: 42 SF MAINS: 10,000 AIC MINIMUM

LC	#	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	#	LC
R	1	R Room A100c, A111, A112b	20	1	900 VA	820 VA					1	20	LIGHTING - A118, A119	2	L
R	3	R Room A111, A112	20	1			900 VA	1243 VA			1	20	LIGHTING-A100,A111,A112,A104,A127,A12...	4	L
R	5	R Room A112b, A112, A111	20	1					900 VA	0 VA	1	20	SPARE	6	--
--	7	SPARE	20	1	0 VA	0 VA					1	20	SPARE	8	--
--	9	SPARE	20	1			0 VA	483 VA			1	20	BUILDING A EXTERIOR LIGHTS (r1)	10	L
--	11	SPARE	20	1					0 VA	0 VA	1	20	FUTURE BUS SHELTER (r2)	12	L
R	13	R LOBBY A100b	20	1	180 VA	256 VA					1	20	SITE SIGN, BOLLARDS & FLAG POLE (r3)	14	L
R	15	R LOBBY A100b	20	1			180 VA	618 VA			1	20	FRONT PARKING (r4)	16	L
D	17	LOBBY A100b DOOR OPERATOR	20	1					500 VA	924 VA	1	20	FRONT PARKING (r5)	18	L
D	19	TLT A102 DOOR OPERATOR	20	1	500 VA	618 VA					1	20	YARD LIGHTING (r6)	20	L
R	21	R Room A100a, A127, A125, A101	20	1			900 VA	924 VA			1	20	YARD LIGHTING (r7)	22	L
R	23	R Room A126, A119a, 000, A101	20	1					720 VA	100 VA	1	20	LIGHTING CONTROL PANEL	24	D
R	25	TV COMMONS	20	1	180 VA									26	
R	27	R Room A119b, A119, A121	20	1			900 VA							28	
R	29	R Room A119, 000, A119a	20	1					900 VA					30	
R	31	R Room A120, A119, A119a	20	1	720 VA									32	
R	33	R KITCHEN A118	20	1			4800 VA							34	
R	35	R KITCHEN A118	20	1					540 VA					36	
R	37	R Room A118, A119b	20	1	540 VA									38	
R	39	R KITCHEN A118	20	1			360 VA	2350 VA			2	50	D KITCHEN A118	40	K
	41									2350 VA	--	--	--	42	--

	A	B	C
Total Connected Load (VA):	4714 VA	13658 VA	6934 VA
Total Connected Current (A):	39	117	61

L (125%) = 7358 VA
R<10,0001(100%) = 10000 VA
R>10,000 (50%) = 1810 VA
RECEPTS TOTAL = 11810 VA
AW (ESTIMATED DEMAND) =
AW (DEMAND FACTOR) =

H (100%) =
Motor-LARGE (125%) = 0 VA
Motor-OTHER (100%) = 0 VA
MOTOR TOTAL =
RW (ESTIMATED DEMAND) =
RW (DEMAND FACTOR) =

WH (100%) =
K (65%) = 4700 VA
A (100%) =
D (100%) = 1100 VA
E (80%) =

Panel Totals	
Total Conn. Load:	25306 VA
Total Conn. Current:	70 A
Total Demand Load:	24968 VA
Total Demand Current:	69 A

Notes: L = LIGHTING, R = RECEPTACLES, Motor = MOTOR LOADS, H = ELECTRIC HEAT, WH = WATER HEATER, K = KITCHEN EQUIP., A = APPLIANCES, D = DEDICATED LOADS, SF = SUB-FEEDS, E = EQUIP., AW = ARC WELDER, RW = RESISTIVE WELDER

PANEL: PA1E PHASE: 3 VOLTAGE: 208Y/120V FEED TYPE:
LOCATION: HALLWAY A129a MOUNT: SURFACE WIRE: 4 BOTTOM 200 A MLO
TYPE: NEMA 1 POLES: 42 SF MAINS: 16,000 AIC MINIMUM

LC	#	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	#	LC
R	1	R Room A129a, A128	20	1	1080 VA	420 VA					1	20	84901 - FILTER PRESS	2	E
R	3	R MAINTENANCE BAY 1 A128	20	1			720 VA	180 VA			1	20	R LUBE ROOM A136	4	R
R	5	R MAINTENANCE BAY 1 A128	20	1					720 VA	1121 VA	1	20	LIGHTING - MAINTENANCE BAY 1	6	L
R	7	R Room A129, A128	20	1	360 VA	1063 VA					1	20	LIGHTING - MAINTENANCE BAY 1	8	L
E	9	50306 - DIESEL CART	20	1			1000 VA	362 VA			1	20	LIGHTING - A131, A132, A138	10	L
E	11	8190 - TRAPEZE	20	1					360 VA	1123 VA	2	20	MOTORIZED GATE CONTROLLER	12	Motor
E	13	8190 - TRAPEZE	20	1	360 VA	1123 VA					--	--	--	14	--
E	15	21401 - PORTABLE BATTERY CHARGER	20	1			120 VA	200 VA			1	20	FIRE ALARM CONTROL PANEL	16	D
E	17	21402 - PORTABLE BATTERY CHARGER	20	1					120 VA	100 VA	1	20	FUEL TANK MONITOR PANEL	18	D
E	19	57941 - COLUMN LIFT	50	3	4804 VA	100 VA					1	20	GENERATOR - CONTROLS	20	D
--	21	--	--	--			4804 VA	100 VA			1	20	GENERATOR - BATTERY CHARGER	22	D
--	23	--	--	--					4804 VA	500 VA	1	20	GENERATOR - BLOCK HEATER	24	D
Motor	25	VEF-1	50	3	1272 VA	0 VA					1	20	SPARE	26	--
--	27	--	--	--			1272 VA	0 VA			1	20	SPARE	28	--
--	29	--	--	--					1272 VA	0 VA	1	2	SPARE	30	--
	31	VER-1	20	1	828 VA	7031 VA					3	100	PANEL PA2E	32	L; R; D
E	33	35601 - PARTS WASHER	20	1			204 VA	5991 VA			--	--	--	34	--
E	35	99801 - USED OIL DRUM	20	1					360 VA	6685 VA	--	--	--	36	--
E	37	21531 - AIR COMPRESSOR	20	3	4440 VA	1970 VA					3	60	PANEL PB	38	L; R; D
--	39	--	--	--			4440 VA	1598 VA			--	--	--	40	--
--	41	--	--	--					4440 VA	680 VA	--	--	--	42	--

	A	B	C
Total Connected Load (VA):	24851 VA	20991 VA	22285 VA
Total Connected Current (A):	209	175	187

L (125%) = 7406 VA
R<10,0001(100%) = 10000 VA
R>10,000 (50%) = 4720 VA
RECEPTS TOTAL = 14720 VA
AW (ESTIMATED DEMAND) =
AW (DEMAND FACTOR) =

H (100%) =
Motor-LARGE (125%) = 16650 VA
Motor-OTHER (100%) = 6062 VA
MOTOR TOTAL = 22712 VA
RW (ESTIMATED DEMAND) =
RW (DEMAND FACTOR) =

WH (100%) =
K (65%) =
A (100%) =
D (100%) = 5196 VA
E (80%) = 17355 VA

Panel Totals	
Total Conn. Load:	67298 VA
Total Conn. Current:	187 A
Total Demand Load:	67389 VA
Total Demand Current:	187 A

Notes: L = LIGHTING, R = RECEPTACLES, Motor = MOTOR LOADS, H = ELECTRIC HEAT, WH = WATER HEATER, K = KITCHEN EQUIP., A = APPLIANCES, D = DEDICATED LOADS, SF = SUB-FEEDS, E = EQUIP., AW = ARC WELDER, RW = RESISTIVE WELDER

PANEL: PA2E PHASE: 3 VOLTAGE: 208Y/120V FEED TYPE:
LOCATION: CUSTODIAN A114 MOUNT: SURFACE WIRE: 4 BOTTOM 100 A MLO
TYPE: NEMA 1, WITH FEED POLES: 42 SF MAINS: 10,000 AIC MINIMUM

LC	#	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	#	LC
R	1	R Room A110, A109, A108	20	1	900 VA	400 VA					1	20	R ROOM A100c, A100a	2	D
R	3	R Room A110, A109, A108, A107	20	1			900 VA	540 VA			1	20	R RECEPTION A101	4	R
R	5	R Room A109, A108, A107, A110	20	1					900 VA	360 VA	1	20	R RECEPTION A101	6	R
R	7	R Room A107, A106, A105	20	1	720 VA	360 VA					1	20	TIME CARD AND VACATION STAMP	8	R
R	9	R Room A106, A105	20	1			540 VA	360 VA			1	20	CONFERENCE RM TV AND PROJECTOR	10	R
R	11	R Room A105, A106	20	1					540 VA	0 VA	1	20	SPARE	12	--
R	13	R Room A117, A115, A113	20	1	1080 VA	1231 VA					1	20	LIGHTING - A100,, A102, A103, A123-A126	14	L
R	15	R Room A115, A117	20	1			720 VA	591 VA			1	20	LIGHTING - A104	16	L
R	17	R Room A117, A115, A116	20	1					1080 VA	1085 VA	1	20	LIGHTING - A105-A110, A113, A115-A117	18	L
R	19	R SERVER ROOM A117	20	1	900 VA	0 VA					1	20	SPARE	20	--
R	21	R Room A124, A123	20	1			900 VA	0 VA			1	20	SPARE	22	--
R	23	R Room A124, A123	20	1					900 VA	0 VA	1	20	SPARE	24	--
R	25	R Room A124, A103, A123	20	1	900 VA									26	
R	27	R Room A103, 000	20	1			360 VA							28	
R	29	R Room A103, A102	20	1					360 VA					30	
R	31	R Room 000, A104	20	1	360 VA									32	
R	33	R BOARD ROOM A104	20	1			720 VA							34	
R	35	R Room A104, A100b, A104c, A104a	20	1					1080 VA					36	
R	37	IC / AC POWER SUPPLY	20	1	180 VA									38	
R	39	R BOARD ROOM A104	20	1			360 VA							40	
R; D	41	BOARD ROOM A104	20	1					380 VA					42	

	A	B	C
Total Connected Load (VA):	7031 VA	5991 VA	6685 VA
Total Connected Current (A):	59	50	57

L (125%) = 3634 VA
R<10,0001(100%) = 10000 VA
R>10,000 (50%) = 3100 VA
RECEPTS TOTAL = 13100 VA
AW (ESTIMATED DEMAND) =
AW (DEMAND FACTOR) =

H (100%) =
Motor-LARGE (125%) = 0 VA
Motor-OTHER (100%) = 0 VA
MOTOR TOTAL =
RW (ESTIMATED DEMAND) =
RW (DEMAND FACTOR) =

WH (100%) =
K (65%) =
A (100%) =
D (100%) = 600 VA
E (80%) =

Panel Totals	
Total Conn. Load:	19707 VA
Total Conn. Current:	55 A
Total Demand Load:	17334 VA
Total Demand Current:	48 A

Notes: L = LIGHTING, R = RECEPTACLES, Motor = MOTOR LOADS, H = ELECTRIC HEAT, WH = WATER HEATER, K = KITCHEN EQUIP., A = APPLIANCES, D = DEDICATED LOADS, SF = SUB-FEEDS, E = EQUIP., AW = ARC WELDER, RW = RESISTIVE WELDER

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Sheet Title
PANEL SCHEDULES

Drawn By **EW** Checked By **HS**

Sheet Number
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Sheet Number 126 Of 203

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TELECOMMUNICATIONS LEGEND

SYMBOL	DESCRIPTION
NETWORK INFRASTRUCTURE	
▼C	TELEPHONE OUTLET - WALL MOUNT WITH (1) PHONE JACK AND (1) CAT6 CABLE (4/S BOX WITH SINGLE GANG MUDRING AND COVERPLATE) (SS INDICATES STAINLESS STEEL COVER PLATE WITH MOUNTING STUDS, S INDICATES SURFACE MOUNT) PROVIDE (1) 1" CONDUIT TO ACCESSIBLE CEILING SPACE. MOUNT AT +18" AFF UNLESS NOTED OTHERWISE. MAINTAIN THE TELECOMMUNICATION OUTLET REQUIREMENTS.
C▼#	COMMUNICATION / DATA OUTLET WITH (2) DATA PORTS AND (2) CAT6 CABLES (4/S BOX WITH SINGLE GANG MUDRING AND COVER PLATE) 1"C. TO ACCESSIBLE CEILING SPACE, MOUNT AT +18" AFF UNLESS NOTED OTHERWISE. (A INDICATES ADMINISTRATIVE HANDSET, D INDICATES DESKTOP HANDSET, C INDICATES MOUNTED ABOVE COUNTER, S INDICATES SURFACE MOUNT). (# INDICATES QUANTITY OF DATA PORTS AND CABLES, IF DIFFERENT THAN 2)
▽	CEILING MOUNTED, DATA OUTLET - MAINTAIN THE COMMUNICATION / DATA OUTLET REQUIREMENTS. COVER PLATE TO BE FLUSH WITH THE BOTTOM OF THE ACCESSIBLE CEILING.
	COMBINATION FLOOR BOX. FOURPLEX ISOLATED GROUND RECEPTACLE AND DATA JUNCTION BOX WITH SEPARATE 1" C. TO ACCESSIBLE CEILING OR NEAREST CABLE TRAY LOCATION, UNLESS NOTED OTHERWISE. MAINTAIN COMMUNICATION / DATA OUTLET REQUIREMENTS.
TMGB	TELECOMM MAIN GROUND BUS-BAR
TEPB	TELECOMM ENTRANCE PROTECTION BLOCK
MISCELLANEOUS	
1	CONSTRUCTION NOTES
1	DEMOLITION NOTES
W	W INDICATES WEATHERPROOF FOR ALL DEVICES, PROVIDE LOCKING COVER ON RECEPTACLES.
WG	WG INDICATES WIRE GUARD
$	ALL DEVICES WITH LIGHT LINE WEIGHT INDICATES EXISTING TO BE RETAINED
	CABLE TRAY

SYMBOL	DESCRIPTION
INTERCOM AND A/V SYSTEM	
SXX	LOUDSPEAKER ASSEMBLY - CEILING MOUNT (AV INDICATES SPEAKER FOR AV SYSTEM, IC INDICATES SPEAKER FOR INTERCOM SYSTEM)
AVa-z	AUDIO/VIDEO INPUT JACK, SEE DETAILS FOR ADDITIONAL DEVICE TYPE REQUIREMENTS. PROVIDE DOUBLE GANG MUDRING WITH 1" CONDUIT TO ACCESSIBLE CEILING SPACE. MOUNT IN FLOORBOX WHEN SHOWN ON THE FLOOR PLANS
CPa-z	AUDIO/VIDEO SYSTEM CONTROL PANEL, SEE DETAILS FOR ADDITIONAL DEVICE TYPE REQUIREMENTS. PROVIDE DOUBLE GANG MUDRING WITH 1" CONDUIT TO ACCESSIBLE CEILING SPACE.
RA	COMBINATION INFRARED MICROPHONE RECEIVER / AV SYSTEM AMPLIFIER - CEILING MOUNT
TV	TELEVISION OUTLET - WALL MOUNT AT + 18" AFF UNLESS OTHERWISE NOTED. 4/S BOX WITH SINGLE GANG MUDRING AND COVER PLATE) 1"C. TO ACCESSIBLE CEILING SPACE, MOUNT AT +18" AFF UNLESS NOTED OTHERWISE .
ICC	MASTER INTERCOM CONTROL CONSOLE
ISS	INTERCOM SUB STATION
INTRUSION ALARM SYSTEM	
IACP	INTRUSION ALARM CONTROL PANEL
KP	KEY PAD
MS	MOTION SENSOR - WALL MOUNT IN THE CORNER AT +96" AFF, UNLESS OTHERWISE NOTED
D	DOOR POSITION SWITCH
	COMBINATION HORN/STROBE - WALL MOUNT AT +80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER (L INDICATES LOW TAP)
S	MASS NOTIFICATION SPEAKER/AMBER MASS NOTIFICATION STROBE - WALL MOUNT AT +80" ABOVE FINISHED FLOOR OR 6" BELOW CEILING, WHICHEVER IS LOWER
IAPS	INTRUSION ALARM POWER SUPPLY
ACCESS CONTROL SYSTEM	
CR	PROXIMITY CARD READER - WALL MOUNT TO SINGLE GANG BOX FLUSH TO WALL SURFACE (L INDICATES LONG RANGE READER, M INDICATES MULLION MOUNT, ST INDICATES MOUNTED ON A STANCHION)
REX	REQUEST TO EXIT MOTION SENSOR
EL	ELECTRIFIED LOCK.
ACP	ACCESS CONTROL PANEL
ACPI	ACCESS CONTROL PANEL INTERFACE

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Sheet Title
TELECOMM LEGEND

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GENERAL NOTES

1. PRVIDE 110 STYLE ENTERANCE PROTECTION BLOCK AND CROSS CONNECT TO 110 STYLE TERMINATION BLOCK.
2. ALL HORIZONTAL CABLING, PATCH PANELS, AND JACKS SHALL BE CAT6 AND TERMINATED TIA-568B
3. NO VISIBLE EXPOSED WIRING SHALL BE ROUTED IN OPEN CEILING SPACE OTHER THAN UTILITY ROOMS, ALL WIRING SHALL BE IN CONDUIT OR BASKET TRAY.
4. ELECTRICAL CONTRACTOR MUST COORDINATE CLOSELY ALL CONDUIT ROUTING AND DEVICE LOCATIONS WITH THE MECHANICAL AND FIRE SPRINKLER, CONTRACTOR.

CONSTRUCTION NOTES

#	
1	TELECOMM ENTRANCE PROTECTION BLOCK.
2	TELECOMM 110 STYLE TERMINATION BLOCK.
3	EXTEND CAT5 25 PAIR FROM 110 TERMINATION BLOCK TO 24 PORT CAT5 PATCH PANEL ON DATA RACK. TERMINATE ONE PAIR PER PORT WITH ONE SPARE PAIR REMAINING UN-TERMINATED.
4	TERMINATE ON CAT6 CABLE PER PORT. MAINTAIN A 25% SPARE PORT CAPACITY.
5	PROVIDE FIRE RATED PLYWOOD BACKBOARDS PER SPECIFICATIONS.
6	1" CONDUIT STUB FROM ACCESS CONTROL / INTERCOM PEDESTAL. SEE SHEET E-101 FOR CONDUIT ROUTING.

CONSTRUCTION NOTES

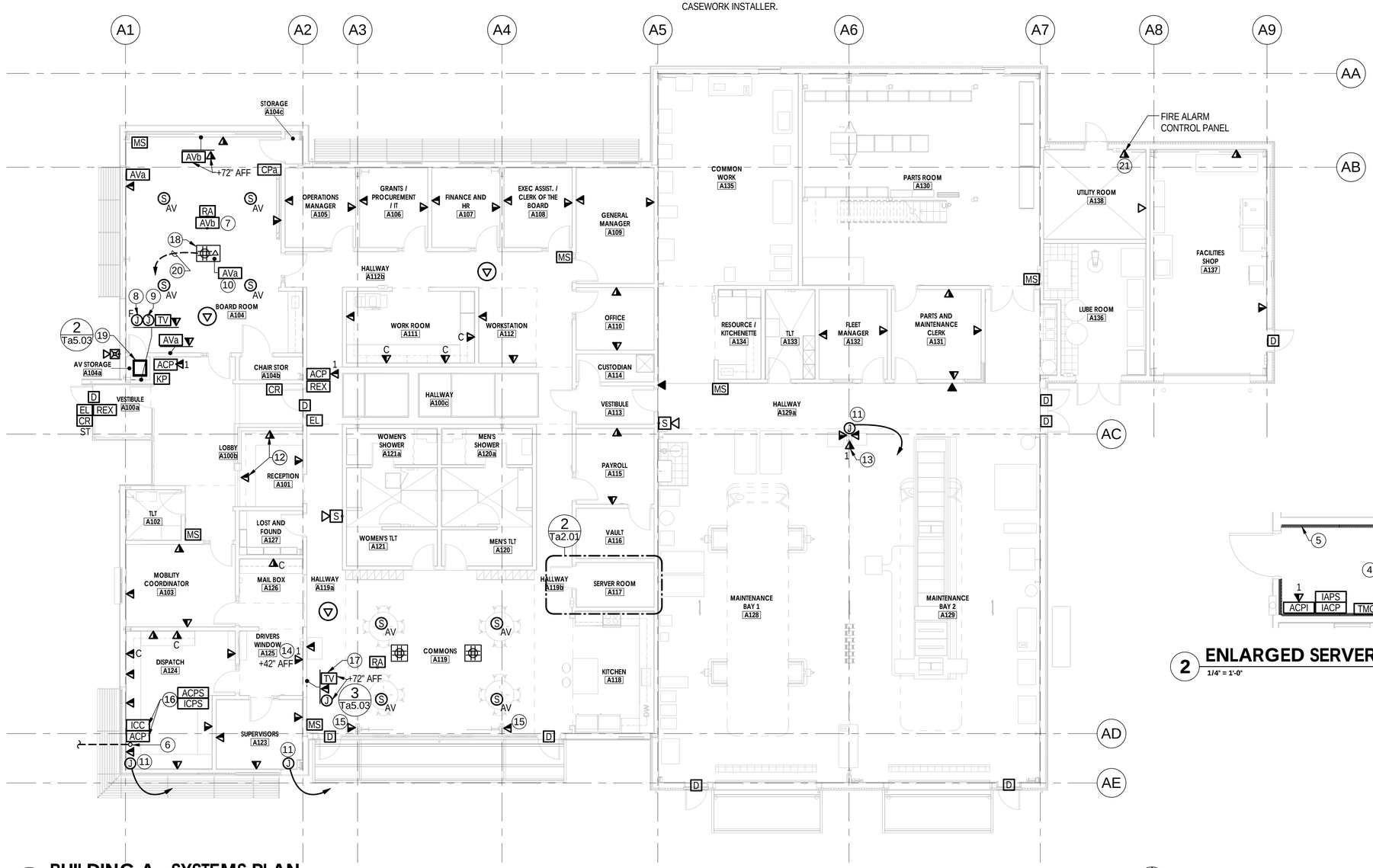
#	
7	PROJECTOR MOUNT LOCATION. PRIOR TO LOW VOLTAGE OR 120VAC POWER ROUGH-IN, COORDINATE WITH THE OWNER FOR EXACT PLACEMENT REQUIREMENTS FOR OPTIMAL THROW DISTANCE TO PROJECTION SCREEN. COORDINATE WITH ARCHITECT PRIOR TO CUTTING INTO SLOTTED WOOD CEILING.
8	FIRE ALARM JUNCTION BOX FOR SOUND SYSTEM SHUNT.
9	6X6 PASS-THROUGH JUNCTION BOX FOR AV SYSTEMS CABLING.
10	INSTALL THE AV DEVICE INTO WIREMOLD (LEGRAND) MULTI-GANG FLOOR BOX.
11	PROVIDE JUNCTION BOX ROUGH-IN AND 1" CONDUIT UP TO ROOF FOR RADIO ANTENNA CABLING. COORDINATE WITH OWNER FOR EXACT LOCATION PRIOR TO ROUGH-IN.
12	COORDINATE INSTALLATION AND CABLING ROUTING WITH CASEWORK INSTALLER.

CONSTRUCTION NOTES

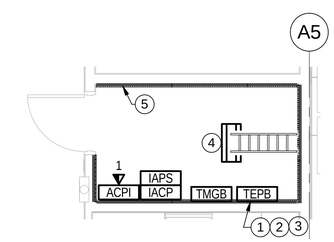
#	
13	PROVIDE SINGLE DATA OUTLET FOR WIRELESS ACCESS POINT. MOUNT AT BEAM AT +12' AFF.
14	PROVIDE DATA OUTLET FOR TIME CARD STAMP. COORDINATE EXACT HEIGHT AND LOCATION WITH THE OWNER.
15	NEATLY SURFACE MOUNT OUTLET AND CONDUIT TO THE SIDE OF STRUCTURAL COLUMN.
16	LOCATE THE INTERCOM HEAD END UNIT ABOVE COUNTER. POWER SUPPLY FOR INTERCOM AND ACCESS CONTROL PANEL WILL BE LOCATED UNDER THE COUNTER.
17	COORDINATE EXACT LOCATION AND HEIGHT OF DEVICE WITH OWNER PROVIDED EQUIPMENT.
18	PROVIDE A WIREMOLD (LEGRAND) EFB6S-OG FLOORBOX AT THIS LOCATION.

CONSTRUCTION NOTES

#	
19	AV SYSTEM RACK
20	PROVIDE (1)" C. TO SOUND SYSTEM RACK JUNCTION BOX, AND (1)1"C. TO ACCESSIBLE CEILING SPACE FOR DATA.
21	PROVIDE (2) DEDICATED PHONE LINES TO FIRE ALARM SYSTEM.



1 **BUILDING A - SYSTEMS PLAN**
1/8" = 1'-0"



2 **ENLARGED SERVER ROOM A117**
1/4" = 1'-0"

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BUILDING A TELECOMM PLAN

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Sheet Number
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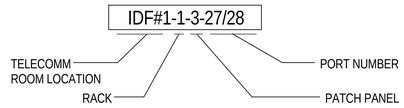
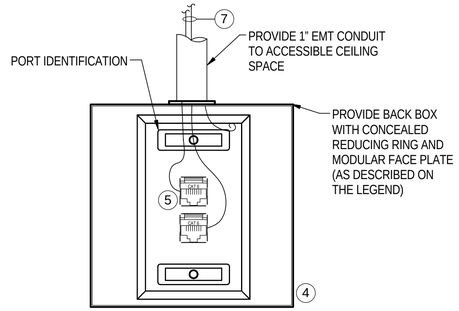


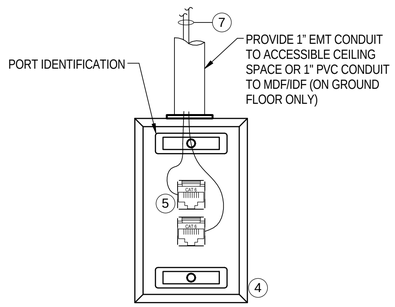
1 TELECOMMUNICATIONS OUTLET LABEL IDENTIFICATION FORMAT

NOT TO SCALE



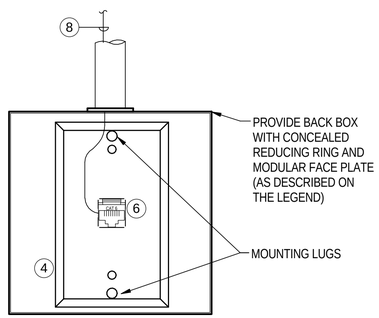
2 TYPICAL TELECOMMUNICATION OUTLET (FOR DATA)

NOT TO SCALE



3 TYPICAL TELECOMMUNICATION OUTLET (FOR FLOOR BOX - DATA)

NOT TO SCALE



4 TYPICAL TELECOMMUNICATION OUTLET (FOR ANALOG VOICE WALL MOUNT TELEPHONE)

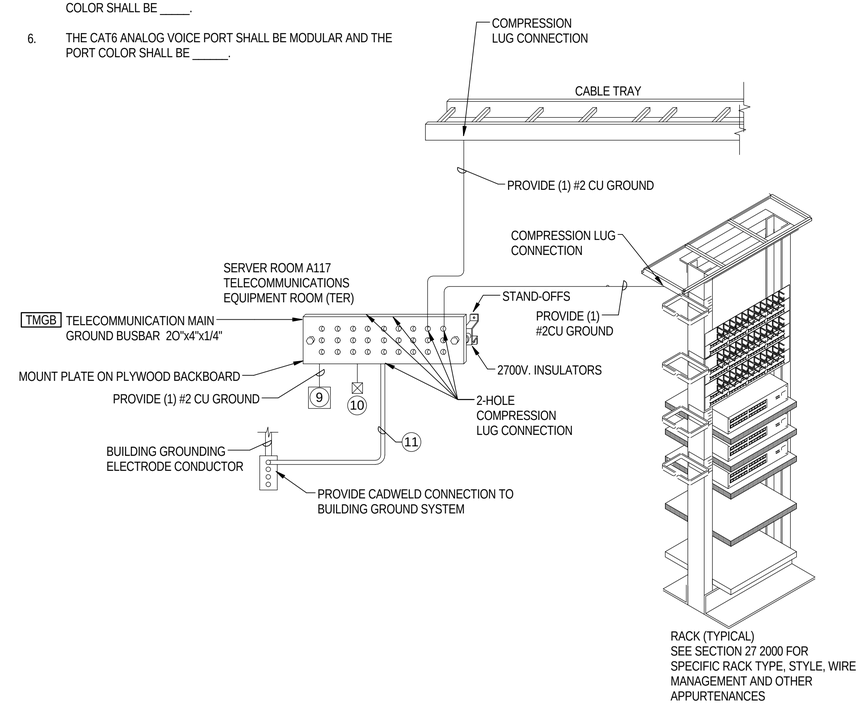
NOT TO SCALE

GENERAL NOTES

1. THIS RISER DIAGRAM IS DIAGRAMMATIC.
2. ALL CABLES RUN UNDERGROUND SHALL BE RATED FOR WET LOCATION.
3. IN AREAS THAT CABLING IS RAN ABOVE THE CEILING, EACH LOW VOLTAGE SYSTEM SHALL HAVE THEIR CABLES SUSPENDED SEPARATELY FROM OTHER LOW VOLTAGE SYSTEMS (I.E. FIRE ALARM CABLES IN ONE J-HOOK, INTRUSION ALARM SYSTEM IN ANOTHER J-HOOK, AND SO ON).
4. THE FIRE ALARM SYSTEM SHALL BE COMPLETELY SEPARATE FROM ALL OTHER SYSTEMS. PROVIDE SEPARATE CONDUITS (WHERE REQUIRED BY CODE), SEPARATE CONDUIT SLEEVES, AND FIRE-RATED WALL PENETRATIONS WHERE REQUIRED BY CODE.
5. COORDINATE WITH ALL TRADES AS REQUIRED.
6. MODULAR PORTS CAPABLE OF BEING REMOVED INDIVIDUALLY FROM THE OUTLETS SHALL BE USED FOR EASE OF SERVICING AND INDIVIDUAL REPLACEMENT OF DAMAGED PORTS.
7. PRE-WIRED OUTLETS OR DUAL MODULES WILL NOT BE ACCEPTED.
8. MODULAR EIGHT PIN EIGHT CONDUCTOR (8P8C) CATEGORY 6 RATED PORTS AND CAT6 CABLES SHALL BE WIRED IN COMPLIANCE WITH EIA/TIA T568B.
9. PORT ID LABELING ON OUTLETS, CABLES, PATCH PANELS AND AS-BUILT DRAWINGS SHALL REFLECT THE ROOM NAMES AND THE ROOM NUMBERS THAT ARE USED AT THE COMPLETION OF THE PROJECT AND NOT WHAT IS SHOWN ON THE BID SET OF DRAWINGS.

CONSTRUCTION NOTES

1. VOICE - PROVIDE (2) 25-PAIR WET RATED CABLE. EACH BACKBONE CABLE SHALL BE TERMINATED ON 110 PUNCH DOWN BLOCKS. FROM THE 110 PUNCH DOWN BLOCKS, ROUTE THE CABLING TO THE DESIGNATED ANALOG PLAIN OLD TELEPHONE SERVICE (POTS) PATCH PANEL(S) AS REQUIRED. COORDINATE WITH THE DISTRICT IT DEPARTMENT (FOR EXACT LOCATION ON PATCH PANELS) PRIOR TO ROUGH-IN.
2. PROVIDE ADDITIONAL CABLING FOR EACH SYSTEM, AS REQUIRED. SEE THE SITE PLAN, ALL RISER DIAGRAMS, SPECIFICATIONS AND DETAIL SHEETS FOR ADDITIONAL CABLING REQUIREMENTS AND MORE INFORMATION. PROVIDE CABLES AND CONDUIT AS SHOWN ON THE TELECOMMUNICATIONS GROUNDING RISER DIAGRAM.
3. SEE THE SITE PLAN(S) FOR ADDITIONAL CONDUIT AND CABLE REQUIREMENTS.
4. SEE SECTION 27 2000 FOR TELECOMMUNICATIONS OUTLET TYPE, STYLE, AND COLOR. SEE FLOOR PLAN FOR PORT AND CABLE QUANTITIES.
5. THE CAT6 DATA PORT SHALL BE MODULAR AND THE PORT COLOR SHALL BE _____.
6. THE CAT6 ANALOG VOICE PORT SHALL BE MODULAR AND THE PORT COLOR SHALL BE _____.
7. PROVIDE (2) CAT6 CABLES FROM THE TELECOMMUNICATION OUTLET TO THE NEAREST TELECOMMUNICATION ROOM, UNLESS NOTED OTHERWISE. PROVIDE THE CAT6 CABLE COLOR AS SPECIFIED IN SECTION 27 2000.
8. PROVIDE (1) CAT6 CABLES FROM THE TELECOMMUNICATION OUTLET TO THE NEAREST TELECOMMUNICATION ROOM, UNLESS NOTED OTHERWISE. PROVIDE THE CAT6 CABLE COLOR AS SPECIFIED IN SECTION 27 2000.
9. PROVIDE CONNECTION TO PANEL BOARD IN THE TELECOMM ROOM.
10. PROVIDE BOND CONNECTION TO BUILDING STEEL, SIZED PER FIGURE 5.4.4.1 (SIZING OF THE TBB) OF ANSI J-STD-601-A
11. PROVIDE (1) 33/O COPPER GROUND CONDUCTOR WITH GREEN OUTER JACKET.



5 TELECOMMUNICATIONS GROUNDING RISER DIAGRAM

DIAGRAMMATIC

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Project Numbers
2013-006

FTA PROJECT NUMBER: WA-0180-02

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08 08 13	100% SD
11 04 13	100% DD
12 30 13	AGENCY SET
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Sheet Title
BUILDING A TELECOMM DETAILS

Drawn By **EW** Checked By **HS**

Sheet Number
Ta5.01

Sheet Number 129 Of 203

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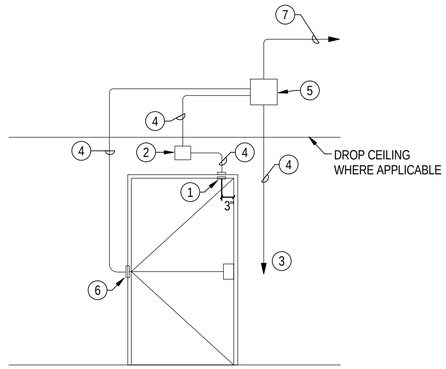


SINGLE DOOR WITH ELECTRIC LOCKS DEVICE

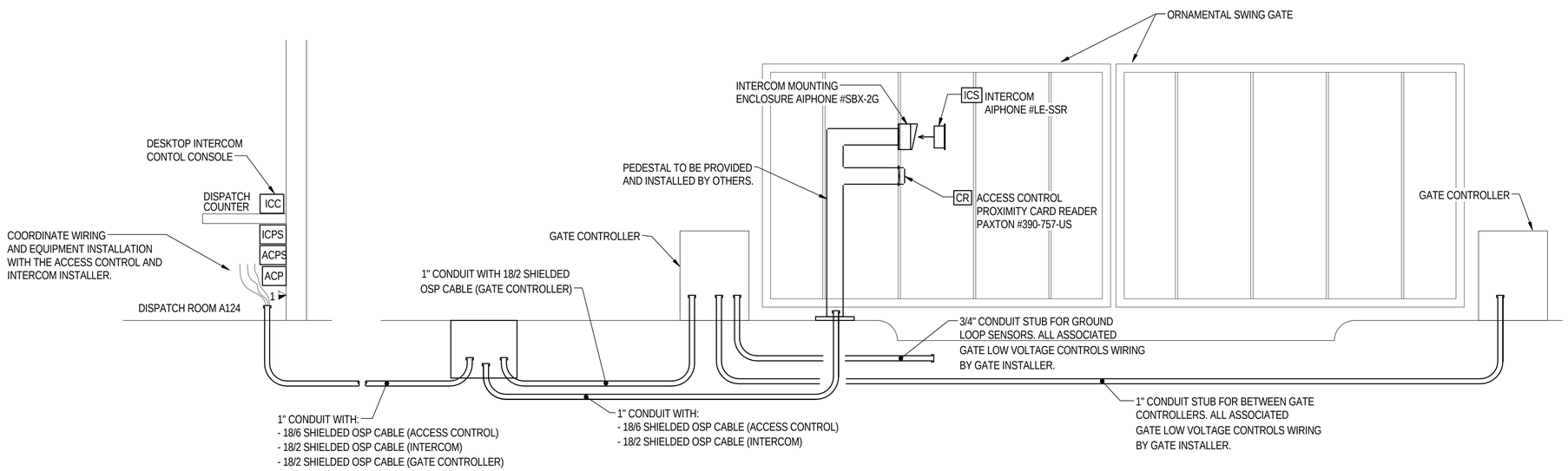
NOTE: DETAIL SHOWN ARE INTERIOR ELEVATION VIEW. ALL CONDUIT RUNS TO BE CONCEALED IN WALLS. WHERE DOOR IS SUROUNDED BY CURTAIN WALL / STOREFRONT WINDOW, ROUTE WIRING THROUGH CURTAIN WALL ALUMINUM FRAME.COORDINATE INSTALLATION WITH DOOR / WINDOW INSTALLER.

CONSTRUCTION NOTES - CARD READER

1. D - DOOR POSITION SWITCH BY SECURITY SYSTEM INSTALLER.
2. REX - PROVIDE RECESS MOUNTED SINGLE GANG BOX MOUNTED HORIZONTALLY ON THE INTERIOR SIDE FOR REQUEST TO EXIT MOTION SENSOR TO BE PROVIDED BY SECURITY SYSTEM INSTALLER. WHERE DOOR IS SUROUNDED BY CURTAIN WALL / STOREFRONT WINDOW, ROUTE CONDUIT THROUGH ALUMINUM FRAME FOR SURFACE MOUNTED EXIT MOTION SENSOR. COORDINATE WIRE ROUTING WITH THE WINDOW INSTALLER. MOUNT BOTTOM OF DEVICE 12" FROM DOOR FRAME.
3. RECESS MOUNTED DOUBLE GANG BOX WITH SINGLE GANG MASONRY RING IN EXTERIOR SIDE FOR THE CARD READER INSTALLATION BY SECURITY SYSTEM INSTALLER. VERIFY EXACT LOCATION WITH SYSTEMS FLOOR PLAN.
4. PROVIDE 1/2" EMT CONDUIT ONLY, COORDINATE ALL LOCATIONS OF ALL SECURITY DEVICE AND DOOR HARDWARE PRIOR TO ROUGH-IN. ALL CONDUIT MUST BE CONCEALED IN WALL.
5. ACP - CARD READER ACCESS CONTROLLER. PROVIDE 8" X 8" X 4" JUNCTION BOX TO BE LOCATED ABOVE THE T-BAR CEILING. WHERE T-BAR CEILING IS NOT AVAILABLE, SURFACE MOUNT JUNCTION BOX ABOVE THE DOOR. COORDINATE EXACT LOCATION WITH THE SECURITY SYSTEM INSTALLER. SEE SYSTEMS FLOOR PLAN Ea4.01 FOR EXACT LOCATION OF JUNCTION BOX.
6. EL - THROUGH WIRE HINGE BY DOOR INSTALLER.
7. 3/4" CONDUIT TO I.T./COMM. ROOM.

1 CARD READER DOOR ACCESS DETAIL

NOT TO SCALE



2 INTERCOM / ACCESS CONTROL / GATE CONTROL LOW VOLTAGE SYSTEMS WIRING AND CONDUIT DETAIL

NOT TO SCALE

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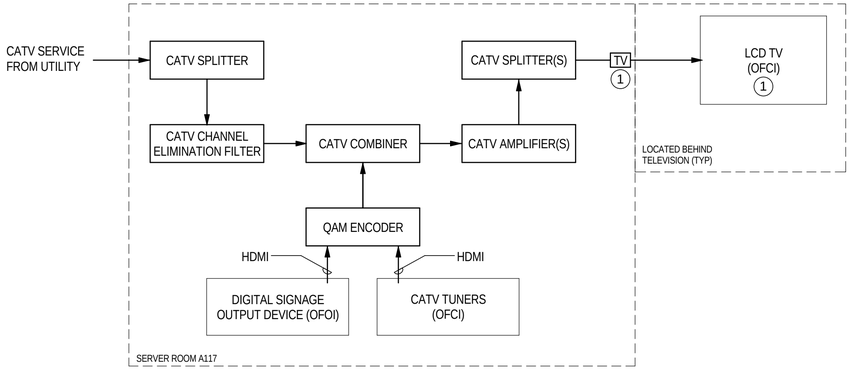
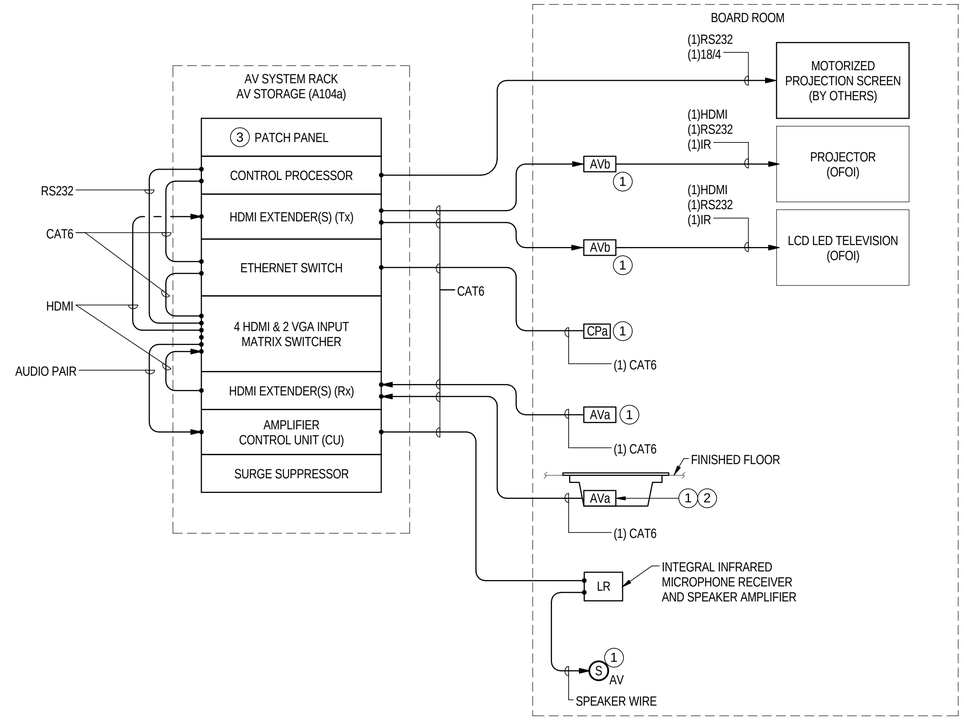


1 CATV DISTRIBUTION SYSTEM RISER DIAGRAM

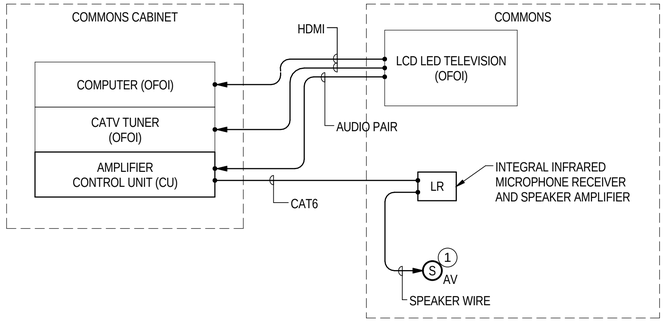
1 1/2" = 1'-0"



2 BOARD ROOM A/V SYSTEM RISER DIAGRAM

1 1/2" = 1'-0"

#	CONSTRUCTION NOTES
1	SEE FLOOR PLANS FOR EXACT LOCATIONS AND QUANTITIES
2	INSTALL THE AV DEVICE INTO WIREMOLD (LEGRAND) MULTI-GANG FLOOR BOX.
3	CONNECTIONS BETWEEN EQUIPMENT SHOWN FOR REFERENCE ONLY, TERMINATE ALL CATEGORY 6 CABLING ON PATCH PANEL AND PROVIDE PATCH CABLES TO DEVICES IN RACK



3 COMMONS A/V SYSTEM RISER DIAGRAM

1 1/2" = 1'-0"

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Ta5.03

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MAINTENANCE, OPERATIONS AND ADMINISTRATION CENTER

FTA PROJECT NUMBER: WA-0180-02

PORT TOWNSEND, WASHINGTON

BUILDING B

BID SET

FEBRUARY 5, 2014

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Qb2.01	BUILDING B EQUIPMENT LAYOUT

STRUCTURAL

Sb2.02	FOUNDATION PLAN AND ROOF FRAMING PLAN BUILDING B
Sb5.01	FOUNDATION DETAILS BUILDING B

MECHANICAL

Mb2.01	BUILDING B PLUMBING PLANS

ELECTRICAL

Eb0.01	BUILDING B ELECTRICAL LEGEND & LIGHTING FIXTURE SCHEDULE
Eb2.01	BUILDING B LIGHTING PLAN
Eb3.01	BUILDING B POWER PLAN

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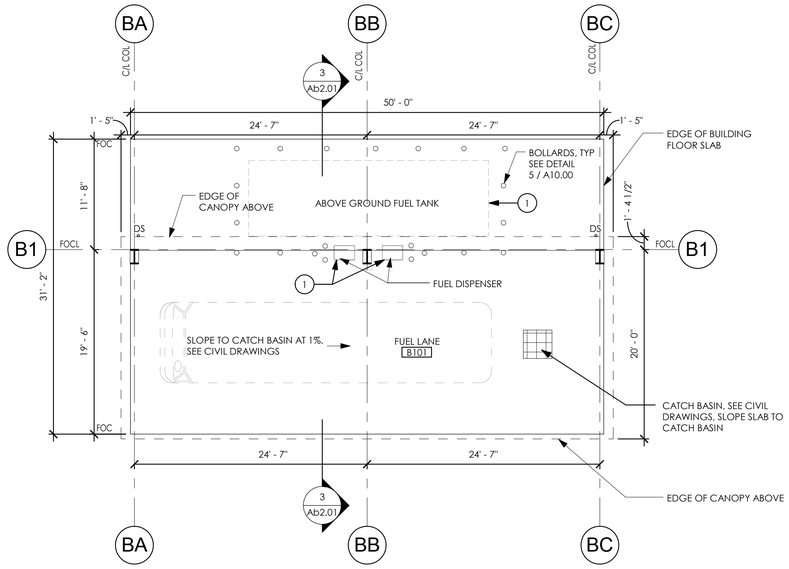
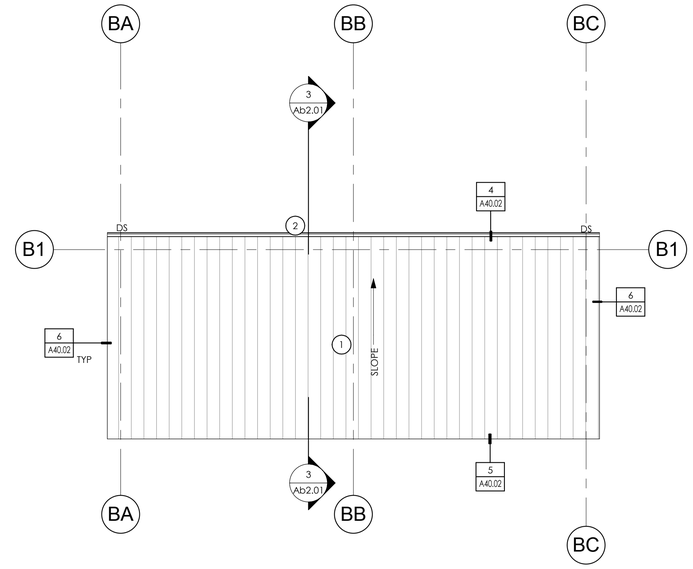


1 BUILDING B FLOOR PLAN
1/8" = 1'-0"



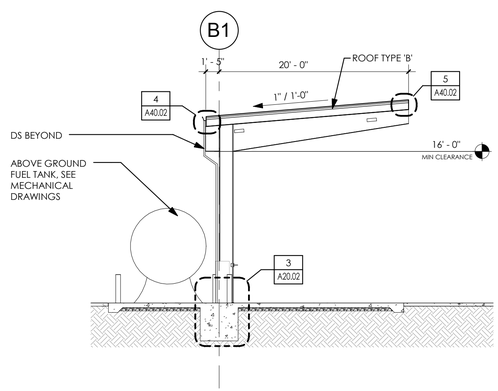
2 BUILDING B ROOF PLAN
1/8" = 1'-0"

FLOOR PLAN KEYNOTES

1. 6" HOUSEKEEPING PAD, SSD & MECHANICAL DRAWINGS

ROOF PLAN KEYNOTES

1. STANDING STEAM MTL ROOF, BY METAL BUILDING MANUFACTURER
2. GUTTER BY METAL BUILDING MANUFACTURER, SEE DETAIL 4 / A40.02



3 BUILDING B SECTION
1/8" = 1'-0"

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NOTE: DRAWING MAY BE REDUCED
0 4' 8' 16'

Sheet Title
BUILDING B FUEL CANOPY FLOOR PLAN / ROOF PLAN / SECTION

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GRAPHIC LEGEND

NEW EQUIPMENT. CONTRACTOR FURNISHED CONTRACTOR INSTALLED (CFCI).

EXISTING EQUIPMENT. OWNER FURNISH OWNER INSTALLED (OFOI) AND NIC.

GENERAL NOTES:

A. 5 DIGIT MARK NUMBERS REPRESENT EXISTING EQUIPMENT.

B. 4 DIGIT MARK NUMBERS WITH OR WITHOUT ALPHA EXTENSION REPRESENT NEW EQUIPMENT TO BE FURNISHED AND INSTALLED AS GRAPHICALLY INDICATED AND SHOWN IN SECTION 110600.

C. ALL EQUIPMENT SHOWN ON THESE DRAWINGS IS BASED ON SPECIFIED MANUFACTURER. ANY MODIFICATIONS AND / OR SUBSTITUTIONS OF SAID EQUIPMENT MUST BE COORDINATED BY THE CONTRACTOR INCLUDING ALL CONNECTIONS, SERVICES, OPENING SIZES, AND ANY OTHER CONSTRUCTION RELATED REQUIREMENTS.

D. VERIFY AND COORDINATE ALL STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING REQUIREMENTS OF EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALLATION.

E. POSITION ALL EQUIPMENT AS SHOWN FOR CLIENT APPROVAL PRIOR TO CONNECTING UTILITIES.

F. ALL DIMENSIONS ARE AS NOTED AND NOT AS SHOWN.

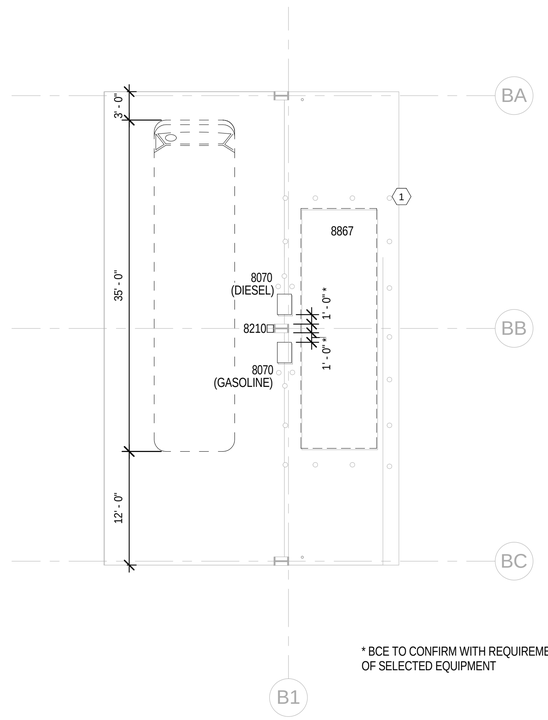
G. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING COORDINATION BETWEEN ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, PLUMBING, EQUIPMENT, AND LANDSCAPE DOCUMENTS. ANY DISCREPANCY IN THE CONTRACT DRAWINGS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ANY FABRICATION, ORDERING, OR CONSTRUCTION.

H. REFER TO EQUIPMENT SPECIFICATIONS FOR TYPES OF EQUIPMENT, SIZE, UTILITIES REQUIRED, AND OPTIONS. REFER TO EQUIPMENT DRAWINGS FOR LOCATION OF EQUIPMENT TO BE INSTALLED IN THE FLOOR SLAB. COORDINATE FORMING WITH THE APPROVED EQUIPMENT MANUFACTURER'S SHOP DRAWINGS.

I. REFER TO Q3.01 FOR EQUIPMENT MOUNTING HEIGHTS.

KEYED NOTES:

1. STEEL PIPE BOLLARD TYPICAL (re: architectural)



* BCE TO CONFIRM WITH REQUIREMENTS OF SELECTED EQUIPMENT

1 Building B - Fuel
1/8" = 1'-0"

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BUILDING B - FUEL BUILDING

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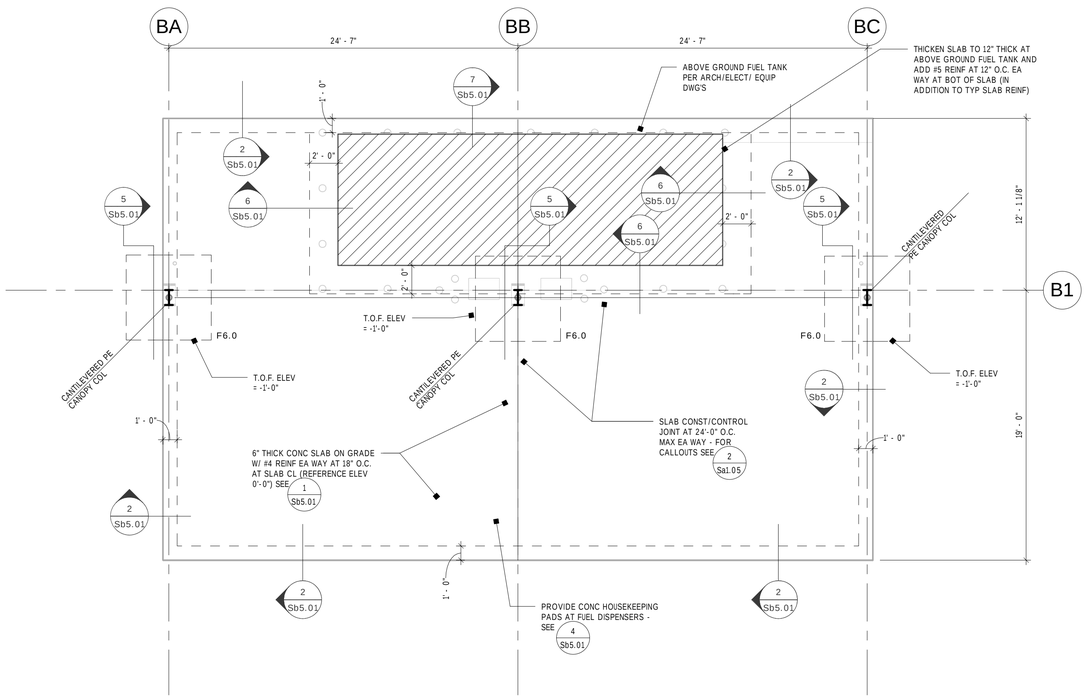
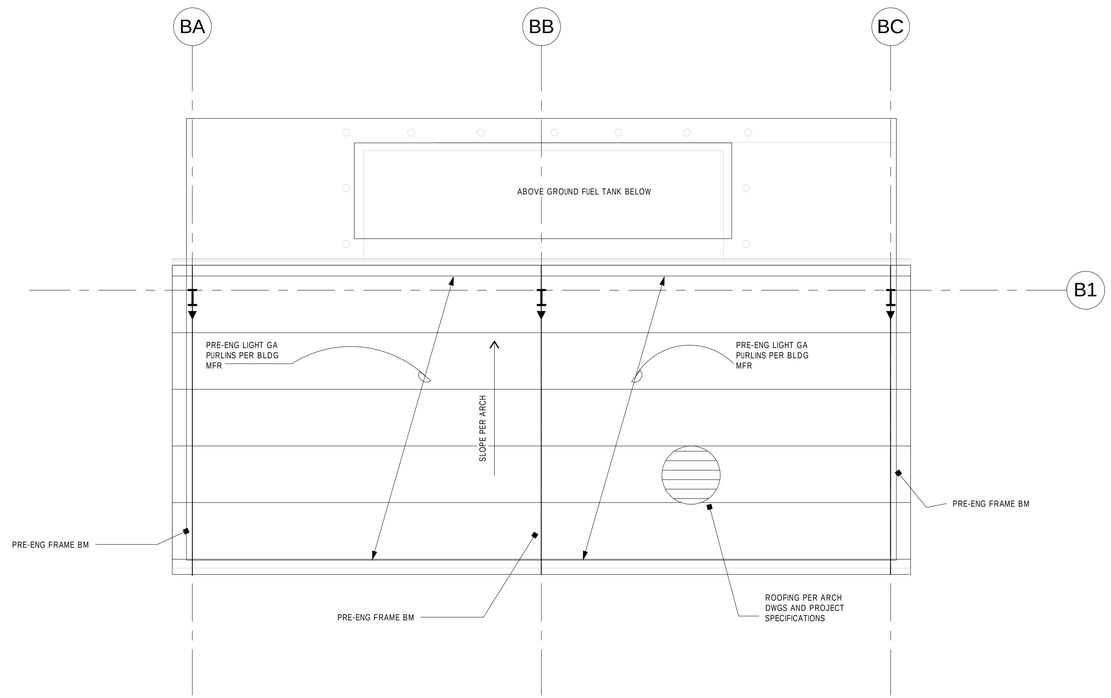
CONTRACTOR NOTE:
BUILDING FOUNDATIONS AND INTERIOR SLABS ON GRADE SHALL REQUIRE OVEREXCAVATION AND BACKFILL W/ COMPACTED STRUCTURAL FILL IN ACCORDANCE W/ THE GEOTECH REPORT. FOR BIDDING PURPOSES THE GENERAL CONTRACTOR SHALL ASSUME OVEREXCAVATION AND BACKFILL W/ COMPACTED STRUCTURAL FILL SHALL BE REQUIRED TO A DEPTH OF 2'-6" BELOW FINISHED FLOOR ELEVATION



1 BUILDING B FOUNDATION PLAN
3/16" = 1'-0"



2 BUILDING B ROOF FRAMING PLAN
3/16" = 1'-0"

DANIEL L. BOOTH
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28446
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER

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FOUNDATION PLAN AND ROOF FRAMING PLAN BUILDING 'B'

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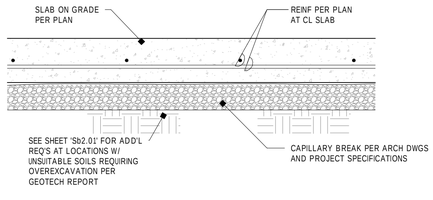
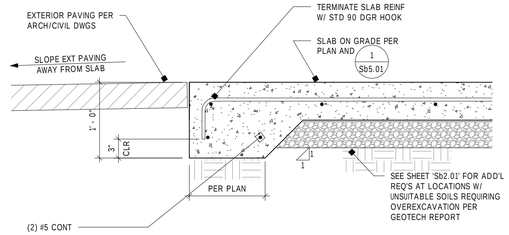


1 SECTION
1" = 1'-0" D FD 1b



2 SECTION
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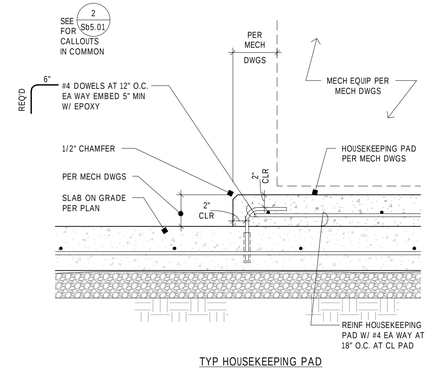
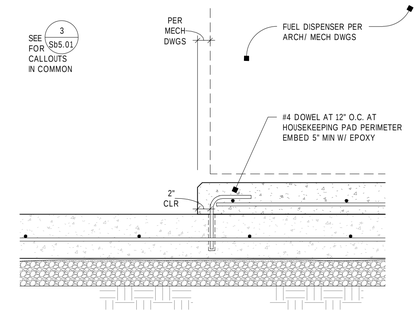
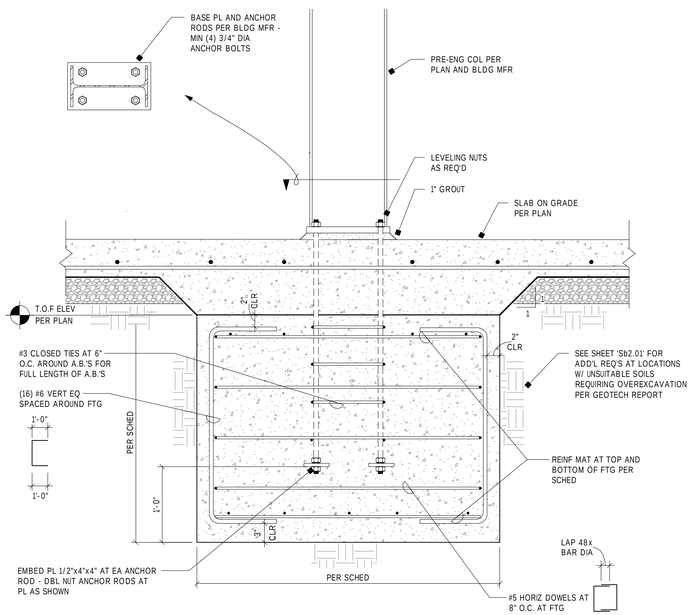


TYP HOUSEKEEPING PAD

3 SECTION
1" = 1'-0" D FD 2 B



4 SECTION
1" = 1'-0" D FD 2 C



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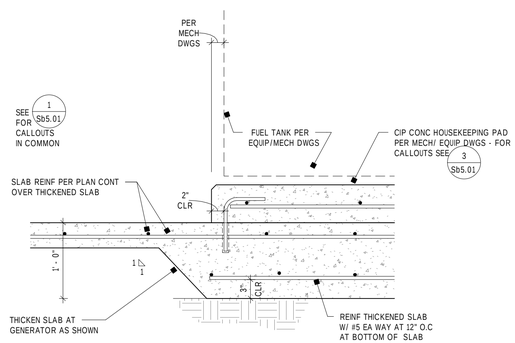
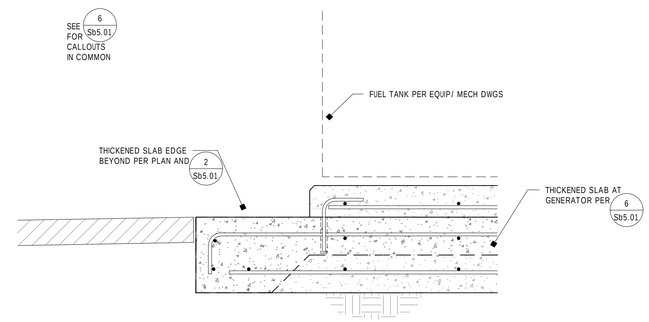


6 SECTION
1" = 1'-0" D FD 48 'B'



7 SECTION
1" = 1'-0" D FD 49 'B'

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FOUNDATION DETAILS BUILDING 'B'

Drawn By **SSO**
Checked By **ADM**

Sheet Number
Sb5.01

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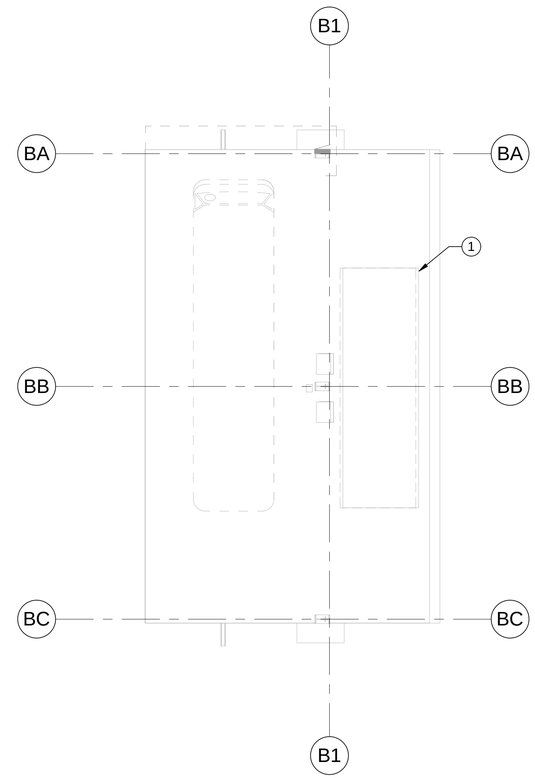
GENERAL NOTES

1 FUEL SYSTEM TO BE DESIGN BUILD. SEE BIDDER DESIGN SPECIFICATIONS FOR REQUIREMENTS.

2 FUEL SYSTEM PERMIT TO BE DEFFERED SUBMITTAL.

CONSTRUCTION NOTES

1 LOCATION OF NEW FUEL SYSTEM SKID. COORDINATE WITH ALL DISCIPLINES PRIOR TO INSTALLATION.



1 BUILDING B PLUMBING PLAN

1/8" = 1'-0"

N

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BUILDING B PLUMBING PLANS

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ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	LIGHTING
	RECESSED FLUORESCENT LIGHT FIXTURE
	SURFACE OR PENDANT MOUNT FLUORESCENT LIGHT FIXTURE (CIRCLE INDICATES RECESSED OR CONCEALED JUNCTION BOX)
	WALL MOUNT H.I.D. LIGHT FIXTURE
	WALL MOUNT COMPACT FLUORESCENT LIGHT FIXTURE
	SURFACE OR RECESSED H.I.D. OR FLUORESCENT LIGHT FIXTURE
	SURFACE OR RECESSED H.I.D. OR COMPACT FLUORESCENT LIGHT FIXTURE
	SURFACE OR PENDANT MOUNT STRIP LIGHT (CIRCLE INDICATES RECESSED OR CONCEALED JUNCTION BOX)
	FIXTURE WITH EMERGENCY BATTERY PACK. PROVIDE UNSWITCHED HOT LEG.
	EXIT LIGHT FIXTURE (PROVIDE DIRECTION ARROWS AS INDICATED) PROVIDE UNSWITCHED HOT LEG.
	WALL MOUNTED EXIT LIGHT FIXTURE (PROVIDE DIRECTION ARROWS AS INDICATED) PROVIDE UNSWITCHED HOT LEG.
	POLE LIGHT FIXTURE (ARROW INDICATES DIRECTION OF AIMING FOR OPTICS)
	RECEPTACLES
	DUPLEX RECEPTACLE (E INDICATES EXISTING TO BE REPLACED)
	MISCELLANEOUS
1	CONSTRUCTION NOTES
W	W INDICATES WEATHERPROOF FOR ALL DEVICES, PROVIDE LOCKING COVER ON RECEPTACLES.
WG	WG INDICATES WIRE GUARD

SYMBOL	DESCRIPTION
	SWITCHES
	PUSH BUTTON EMERGENCY SHUTOFF SWITCH
	EQUIPMENT AND WIRING
	CONDUIT STUB OUT (PROVIDE CONCRETE MARKER ON EXTERIOR)
	DEDICATED CONDUIT HOMERUN TO PANEL & CIRCUIT NUMBERS AS INDICATED ON PLANS
	RACEWAY CONCEALED IN WALL OR CEILING
	RACEWAY CONCEALED UNDERGROUND OR UNDER FLOOR SLAB
	MARKS INDICATE NUMBER OF #12 AWG UNLESS NOTED OTHERWISE
	GROUNDING CONDUCTOR
	FLEXIBLE CONDUIT
	GROUNDING SYSTEM PER CODE
	JUNCTION BOX - SIZE PER CODE (F INDICATES FIRE ALARM SYSTEM)
	120/208 VOLT PANELBOARD (OR AT RATED VOLTAGE AS NOTED)

BUILDING B LIGHTING FIXTURE SCHEDULE

SYMBOL	MFR.	MODEL	CATALOG #	LAMP PROPERTIES QTY.	W	TYPE	TEMP.	VOLTS/WATTS V	W	DESCRIPTION
SF2	BEGHELLI	ILLUMINA	BS100T5HO-4-HT-254W-120V-XX	2	54 W	T5HO	3500 K	120 V	118 W	4' PENDANT HUNG FLUORESCENT FIXTURE. WET LOCATION, IP65 RATED.

NOTES:

1.LIGHTING RELAY CIRCUIT REQUIRED BY NREC TO AUTOMATICALLY SHUT-OFF DURING NON-BUSINESS HOURS. COORDINATE WITH OWNER FOR TIME SCHEDULE SETTINGS.

2.FOR ALL LIGHTING CONTROLS WHICH INCLUDE DAYLIGHT OR OCCUPANT SENSING AUTOMATIC CONTROLS, AUTOMATIC SHUT-OFF CONTROLS, OCCUPANCY SENSORS, OR AUTOMATIC TIME SWITCHES, AND THE LIGHT CONTROLS SHALL COMPLY WITH WASHINGTON STATE ENERGY CODE TESTING AND COMMISSIONING DOCUMENTATION REQUIREMENTS PER C408.3 OF WASHINGTON STATE ENERGY CODE. A COMPLETE REPORT OF TEST PROCEDURES AND RESULTS SHALL BE PREPARED BY THE PROJECT COMMISSIONING AGENT OR ELECTRICAL CONTRACTOR AND FILED WITH THE OWNER.

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BUILDING B ELECTRICAL LEGEND AND LIGHTING FIXTURE SCHEDULE

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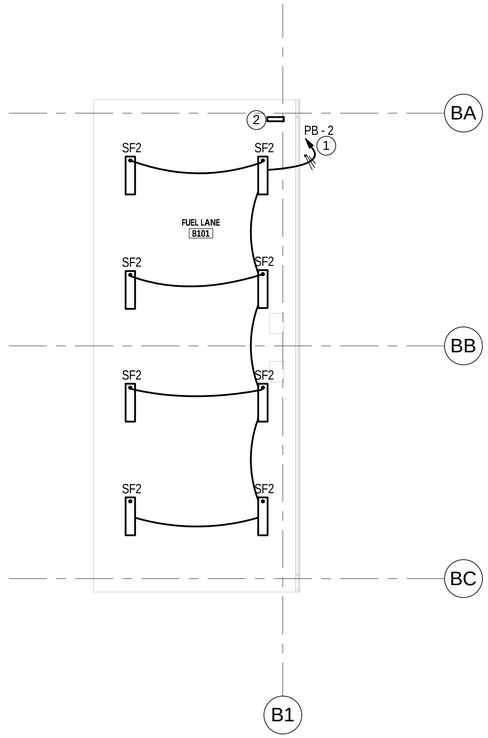

1 BUILDING B - LIGHTING REFLECTED CEILING PLAN

1/8" = 1'-0"

N

GENERAL NOTES

1. CIRCUITS, WIRE SIZE AND WIRE HASH MARKS ARE SHOWN FOR CIRCUIT CLARITY BUT MAY NOT NECESSARILY REPRESENT THE COMPLETE WIRING COUNT OR SIZES FOR CONNECTING CIRCUITS SHOWN. INCLUDE IN THE BID ALL REQUIRED WIRING SIZES AND NUMBER OF CONDUCTORS TO INSTALL ALL CIRCUITS SHOWN. FOR MULTI-CIRCUIT HOMERUNS, CONTRACTOR CAN CHOOSE TO UPSIZE CONDUCTORS OR PROVIDE SEPARATE CONDUITS. SEE NEC TABLE 310.15(B)(3)(a).
2. SEE ARCHITECTURAL EXTERIOR ELEVATION PLANS FOR EXACT LOCATIONS OF ALL EXTERIOR WALL MOUNTED LIGHT FIXTURES.
3. ELECTRICAL CONTRACTOR MUST CLOSELY COORDINATE ALL CONDUIT ROUTING AND DEVICE LOCATIONS WITH THE MECHANICAL AND FIRE SPRINKLER CONTRACTORS..
4. 120V CIRCUITS OVER 150 FEET IN LENGTH SHALL BE #10 CONDUCTORS.
5. SEE Eb3.01 FOR PANEL BOARD AND LIGHTING CONTROL PANEL LOCATION.

CONSTRUCTION NOTES

1 ROUTE CIRCUITS THROUGH TIMECLOCK SWITCH. COORDINATE SCHEDULE WITH THE OWNER.

2 PROVIDE TIMECLOCK SWITCH CONTROLLER. INTERMATIC #ET70215C.

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BUILDING B LIGHTING PLAN

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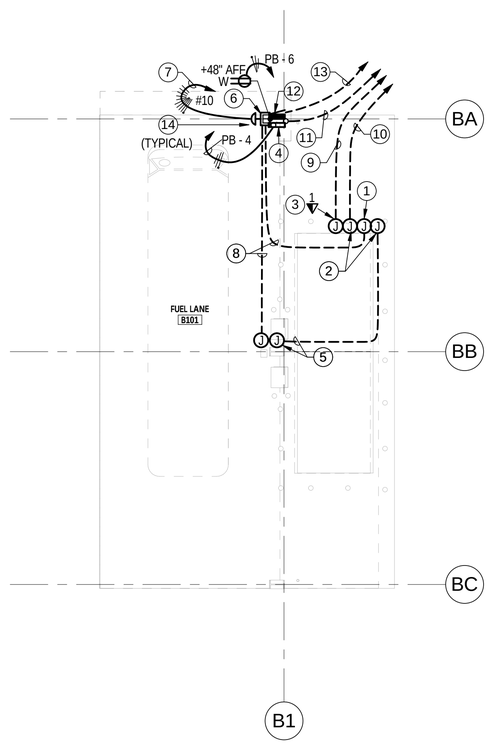
GENERAL NOTES

1. CIRCUITS, WIRE SIZE AND WIRE HASH MARKS ARE SHOWN FOR CIRCUIT CLARITY BUT MAY NOT NECESSARILY REPRESENT THE COMPLETE WIRING COUNT OR SIZES FOR CONNECTING CIRCUITS SHOWN. INCLUDE IN THE BID ALL REQUIRED WIRING SIZES AND NUMBER OF CONDUCTORS TO INSTALL ALL CIRCUITS SHOWN. FOR MULTI-CIRCUIT HOMERUNS, CONTRACTOR CAN CHOOSE TO UPSIZE CONDUCTORS OR PROVIDE SEPARATE CONDUITS. SEE NEC TABLE 310.15(B)(3)(a).
2. ELECTRICAL CONTRACTOR MUST PROVIDE AND COMPLY WITH ALL NEC REQUIREMENTS FOR FUEL DISPENSING FACILITIES NEC514.
3. ELECTRICAL CONTRACTOR MUST PROVIDE WATERPROOF DEVICES AND WIRING METHODS WHERE REQUIRED BY NEC.
4. 120V CIRCUITS OVER 150 FEET IN LENGTH SHALL BE #10 CONDUCTORS.
5. COORDINATE RECEPTACLE NEMA CONFIGURATION WITH MANUFACTURER AND EXISTING EQUIPMENT.
6. PROVIDE EXPLOSION PROOF SEALS AT BOTH ENDS OF UNDERGROUND CONDUITS AS REQUIRED BY NEC.
7. COORDINATE FUEL SYSTEM CONTRACTOR FOR ALL EQUIPMENT REQUIREMENTS AND LOCATIONS PRIOR TO ROUGH-IN.
8. ELECTRICAL POWER PLAN SHOWN INDICATED DIAGRAMMATIC CIRCUITS AND CONDUIT ROUTING. ALL CONTROLS, EMERGENCY PUSHBUTTON, NEC REQUIRED DISCONNECTS, AND LOW VOLTAGE WIRING SHALL BE PART OF AND INCLUDED WITH THE FUEL SYSTEM DESIGN BUILD SCOPE PER SPECIFICATIONS 23 1000 FUEL SYSTEMS.



1 BUILDING B - POWER PLAN
1/8" = 1'-0"

CONSTRUCTION NOTES

#	
1	FUEL DISPENSER / TANK EWUIPMENT - POWER CONNECTION.
2	FUEL DISPENSER / TANK EQUIPMENT - LOW VOLTAGE.
3	FUEL DISPENSER / TANK EQUIPMENT - DATA CONNECTION. PROVIDE 1 - DATA OUTLET.
4	TIME CLOCK, 120V, 1PH, 20A CIRCUIT.
5	FUEL SYSTEM CARD READER - PROVIDE 1" CONDUIT BETWEEN THE CARD READER PEDESTAL AND FUEL DISPENSER / TANK. COORDINATE EXACT LOCATION WITH INSTALLER.
6	EMERGENCY PUSH BUTTON RELAY SYSTEM FUEL SYSTEM SWITCH. COORDINATE EXACT LOCATION WITH THE FUEL SYSTEM INSTALLER AND THE AHJ APPROVED PERMIT DRAWINGS. ALL FUEL SYSTEM CIRCUITS SHALL BE ROUTED THROUGH THE REALY SYSTEM. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL REQUIRED LINE VOLTAGE CIRCUIT WIRING AND CONDUIT. EMERGENCY PUSH BUTTON SWITCH AND RELAY TO BE PROVIDED BY THE FUEL SYSTEM CONTRACTOR.
7	PROVIDE CIRCUITS FOR THE FOLLOWING: - FUEL PUMP MOTOR, 1/3HP (GAS) AND 3/4HP (DIESEL) 208V, 1PH-PD-1,3. - DIESEL FUEL DISPENSER, 120V, 1PH, 20A-PD-5. - GAS FUEL DISPENSER, 120V, 1PH, 20A-PD-7. - FUEL SYSTEM CARD READER, 120V, 1PH, 20A-PD-9.

CONSTRUCTION NOTES

#	
8	CONTINUE CIRCUITS FROM EMERGENCY PUSH BUTTON TO FUEL EQUIPMENT.
9	PROVIDE 1" CONDUIT FOR DATA WIRING TO SERVER ROOM A117.
10	PROVIDE 1" CONDUIT TO FUEL TANK MONITOR PANEL IN BUILDING A ROOM A129.
11	PROVIDE 1" SPARE CONDUIT TO BUILDING A ROOM A129.
12	PANEL "PD"
13	PANEL "PD" FEEDER. SEE SHEET Ea6.00 FOR POWER RISER DIAGRAM.
14	MOUNT ALL PANELS AND DEVICES TO STRUCTUAL COLUMN. COORDINATE CONDUIT ROUTING AND STUBS WITH STRUCTURAL FOUNDATION. PROVIDE UNISTRUT SUPPORT AS REQUIRED.

PANEL: PB | PHASE: 3 | VOLTAGE: 208Y/120V | FEED TYPE:
LOCATION: | MOUNT: SURFACE | WIRE: 4 | BOTTOM | 60 A MLO
TYPE: NEMA 3R | POLES: 30 | SF MAINS: | 10,000 AIC MINIMUM

LC	#	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	#	LC
D	1	FUEL PUMP	20	2	998 VA	944 VA					1	20	LIGHTING - FUEL LANE	2	L
--	3	--	--	--			998 VA	100 VA			1	20	TIME CLOCK	4	D
D	5	DIESEL DISPENSER	20	1					500 VA	180 VA	1	20	R FUEL LANE B101	6	R
D	7	GAS DISPENSER	20	1	500 VA	0 VA					1	20	SPARE	8	--
D	9	FUEL SYSTEM CARD READER	20	1			500 VA	0 VA			1	20	SPARE	10	--
	11									0 VA	1	20	SPARE	12	--
	13													14	
	15													16	
	17													18	
	19													20	
	21													22	
	23													24	
	25													26	
	27													28	
	29													30	
		Total Connected Load (VA):			2442 VA		1598 VA		680 VA						
		Total Connected Current (A):			22		14		6						

L (125%) = 1180 VA	H (100%) =	WH (100%) =
R<10,0001(100%) = 180 VA	Motor-LARGE (125%) = 0 VA	K (65%) =
R>10,000 (50%) = 0 VA	Motor-OTHER (100%) = 0 VA	A (100%) =
RECEPTS TOTAL = 180 VA	MOTOR TOTAL =	D (100%) = 3596 VA
AW (ESTIMATED DEMAND) =	RW (ESTIMATED DEMAND) =	E (80%) =
AW (DEMAND FACTOR) =	RW (DEMAND FACTOR) =	

Panel Totals	
Total Conn. Load:	4720 VA
Total Conn. Current:	13 A
Total Demand Load:	4956 VA
Total Demand Current:	14 A

Notes: L = LIGHTING, R = RECEPTACLES, Motor = MOTOR LOADS, H = ELECTRIC HEAT, WH = WATER HEATER, K = KITCHEN EQUIP., A = APPLIANCES, D = DEDICATED LOADS, SF = SUB-FEEDS, E = EQUIP., AW = ARC WELDER, RW = RESISTIVE WELDER

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Sheet Title
BUILDING B POWER PLAN

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PORT TOWNSEND, WASHINGTON

BUILDING C

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FEBRUARY 5, 2014

SHEET INDEX

GENERAL

Gc1.01	COVER SHEET

ARCHITECTURAL

Ac2.01	BUILDING C - BUS WASH

STRUCTURAL

Sc2.01	BUS WASH

ELECTRICAL

Ec0.01	BUILDING C ELECTRICAL LEGEND & LIGHTING FIXTURE SCHEDULE
Ec2.01	BUILDING C LIGHTING PLAN
Ec3.01	BUILDING C POWER PLAN

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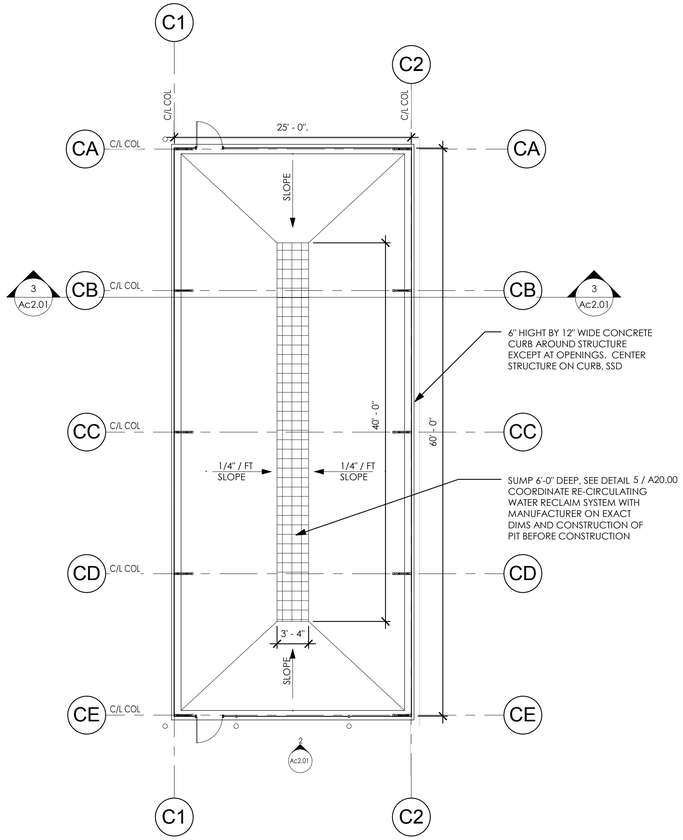
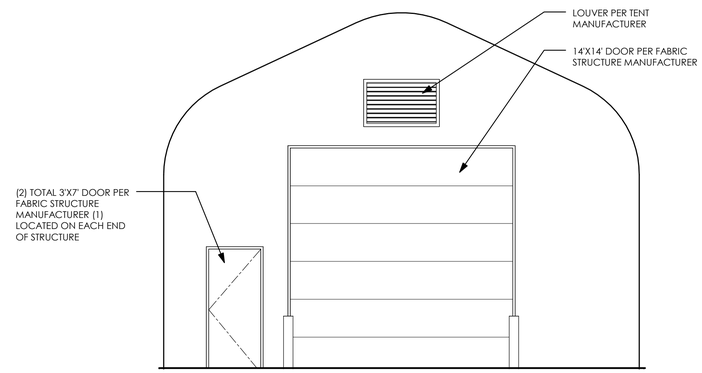


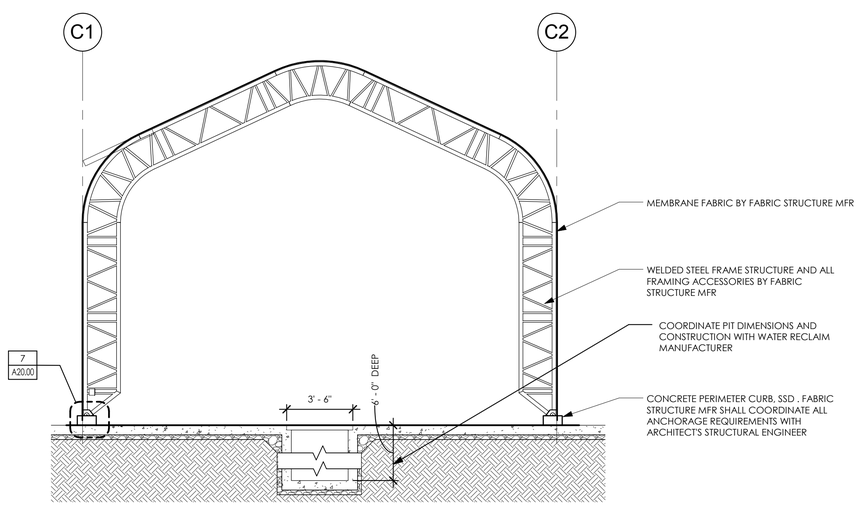
1 BUILDING C FLOOR PLAN

1/8" = 1'-0"



2 BUILDING C - EAST ELEVATION

1/4" = 1'-0"



3 BUILDING C SECTION

1/4" = 1'-0"

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BUILDING C - BUS WASH

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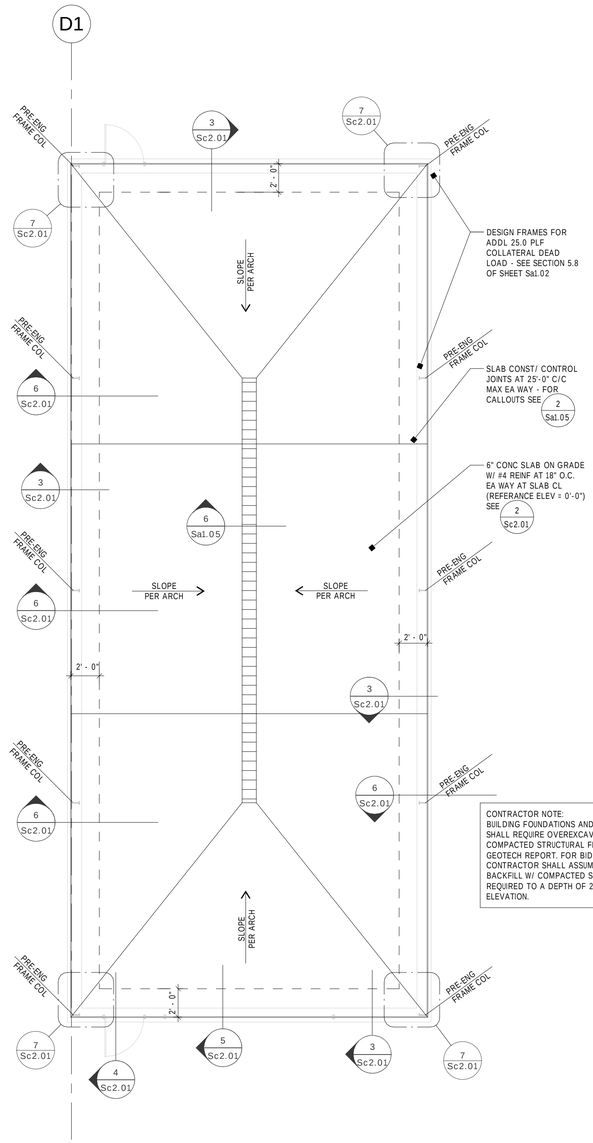
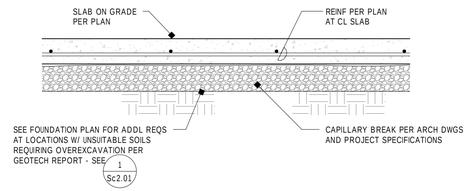
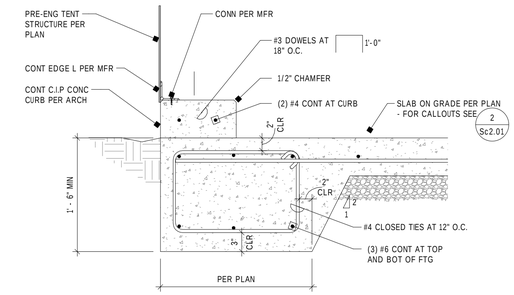


CONTRACTOR NOTE:
BUILDING FOUNDATIONS AND INTERIOR SLABS ON GRADE SHALL REQUIRE OVEREXCAVATION AND BACKFILL W/ COMPACTED STRUCTURAL FILL IN ACCORDANCE W/ THE GEOTECH REPORT. FOR BIDDING PURPOSES THE GENERAL CONTRACTOR SHALL ASSUME OVEREXCAVATION AND BACKFILL W/ COMPACTED STRUCTURAL FILL SHALL BE REQUIRED TO A DEPTH OF 2'-6" BELOW FINISHED FLOOR ELEVATION.

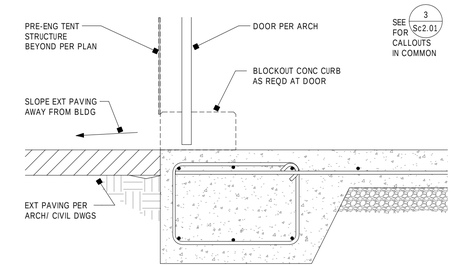
1 BUILDING C FOUNDATION PLAN
3/16" = 1'-0"



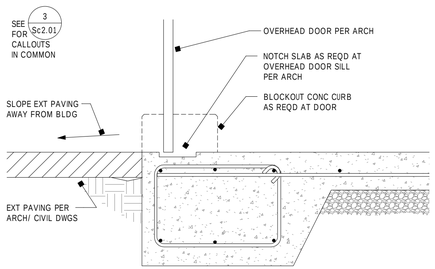
2 SECTION
1" = 1'-0" D BW 1



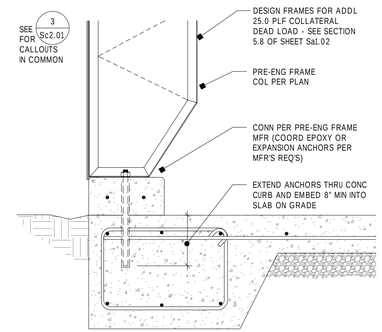
3 SECTION
1" = 1'-0" D BW 2



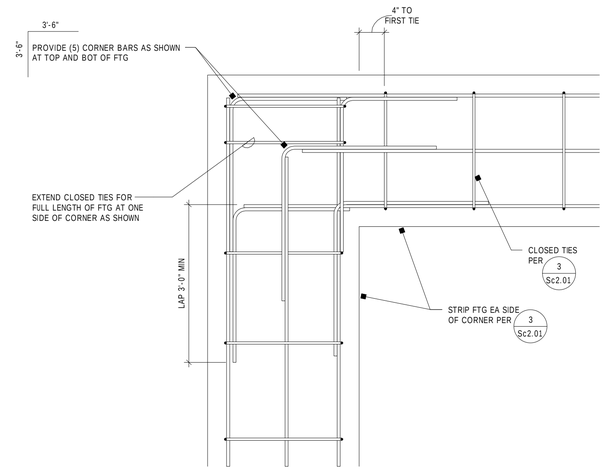
4 SECTION
1" = 1'-0" D BW 3



5 SECTION
1" = 1'-0" D BW 4



6 SECTION
1" = 1'-0" D BW 5



7 PLAN
1" = 1'-0" D BW 6

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JEFFERSON TRANSIT

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PORT TOWNSEND, WASHINGTON 98368

Project Numbers
Project Number

FTA PROJECT NUMBER: WA-0180-02

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Sheet Title
BUILDING C FOUNDATION PLAN AND DETAILS

Drawn By **SSO**
Checked By **ADM**

Sheet Number
Sc2.01

Sheet Number **143** Of **203**

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ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	LIGHTING
	SURFACE OR PENDANT MOUNT FLUORESCENT LIGHT FIXTURE (CIRCLE INDICATES RECESSED OR CONCEALED JUNCTION BOX)
	RECEPTACLES
	DUPLEX RECEPTACLE (E INDICATES EXISTING TO BE REPLACED)
G	DUPLEX RECEPTACLE (G INDICATES GROUND FAULT CIRCUIT INTERRUPTER)
	MISCELLANEOUS
1	CONSTRUCTION NOTES
W	W INDICATES WEATHERPROOF FOR ALL DEVICES, PROVIDE LOCKING COVER ON RECEPTACLES.
WG	WG INDICATES WIRE GUARD
AH1 / 1	MECHANICAL EQUIPMENT CONNECTION

SYMBOL	DESCRIPTION
	SWITCHES
OS	COMBINATION SWITCH / OCCUPANCY SENSOR
3	THREE WAY SWITCH
PC	PHOTOCELL CONTROL
OS	WALL MOUNTED OCCUPANCY SENSOR (LIGHTING CONTROL)
	EQUIPMENT AND WIRING
	CONDUIT STUB OUT (PROVIDE CONCRETE MARKER ON EXTERIOR)
	DEDICATED CONDUIT HOMERUN TO PANEL & CIRCUIT NUMBERS AS INDICATED ON PLANS
	RACEWAY CONCEALED IN WALL OR CEILING
	RACEWAY CONCEALED UNDERGROUND OR UNDER FLOOR SLAB
	MARKS INDICATE NUMBER OF #12 AWG UNLESS NOTED OTHERWISE
	GROUNDING CONDUCTOR
	FLEXIBLE CONDUIT
	GROUNDING SYSTEM PER CODE
J	JUNCTION BOX - SIZE PER CODE (F INDICATES FIRE ALARM SYSTEM)

BUILDING C LIGHTING FIXTURE SCHEDULE

SYMBOL	MFR.	MODEL	CATALOG #	LAMP PROPERTIES QTY.	W	TYPE	TEMP.	VOLTS/WATTS V	W	DESCRIPTION
SF2	BEGHELLI	ILLUMINA	BS100T5HO-4-HT-254W-120V-XX	2	54 W	T5HO	3500 K	120 V	118 W	4' PENDANT HUNG FLUORESCENT FIXTURE. WET LOCATION, IP65 RATED.

NOTES:

1.LIGHTING RELAY CIRCUIT REQUIRED BY NREC TO AUTOMATICALLY SHUT-OFF DURING NON-BUSINESS HOURS. COORDINATE WITH OWNER FOR TIME SCHEDULE SETTINGS.

2.FOR ALL LIGHTING CONTROLS WHICH INCLUDE DAYLIGHT OR OCCUPANT SENSING AUTOMATIC CONTROLS, AUTOMATIC SHUT-OFF CONTROLS, OCCUPANCY SENSORS, OR AUTOMATIC TIME SWITCHES, AND THE LIGHT CONTROLS SHALL COMPLY WITH WASHINGTON STATE ENERGY CODE TESTING AND COMMISSIONING DOCUMENTATION REQUIREMENTS PER C408.3 OF WASHINGTON STATE ENERGY CODE. A COMPLETE REPORT OF TEST PROCEDURES AND RESULTS SHALL BE PREPARED BY THE PROJECT COMMISSIONING AGENT OR ELECTRICAL CONTRACTOR AND FILED WITH THE OWNER.

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BUILDING C ELECTRICAL LEGEND AND LIGHTING FIXTURE SCHEDULE

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GENERAL NOTES

1. CIRCUITS, WIRE SIZE AND WIRE HASH MARKS ARE SHOWN FOR CIRCUIT CLARITY BUT MAY NOT NECESSARILY REPRESENT THE COMPLETE WIRING COUNT OR SIZES FOR CONNECTING CIRCUITS SHOWN. INCLUDE IN THE BID ALL REQUIRED WIRING SIZES AND NUMBER OF CONDUCTORS TO INSTALL ALL CIRCUITS SHOWN. FOR MULTI-CIRCUIT HOMERUNS, CONTRACTOR CAN CHOOSE TO UPSIZE CONDUCTORS OR PROVIDE SEPARATE CONDUITS. SEE NEC TABLE 310.15(B)(3)(a).
2. SEE ARCHITECTURAL EXTERIOR ELEVATION PLANS FOR EXACT LOCATIONS OF ALL EXTERIOR WALL MOUNTED LIGHT FIXTURES.
3. ELECTRICAL CONTRACTOR MUST CLOSELY COORDINATE ALL CONDUIT ROUTING AND DEVICE LOCATIONS WITH THE MECHANICAL AND FIRE SPRINKLER CONTRACTORS..
4. 120V CIRCUITS OVER 150 FEET IN LENGTH SHALL BE #10 CONDUCTORS.

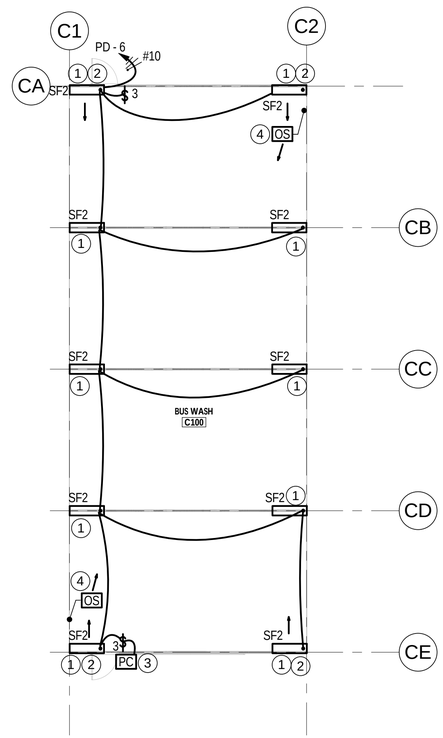
CONSTRUCTION NOTES

1 MOUNT FIXTURE TO BUILDING STRUCTURE.

2 PROVIDE FIXTURE WITH BRACKET AND SUPPORTS TO MOUNT FIXTURE TO THE CORNER OF STRUCTURE WITH 45 DEGREE.

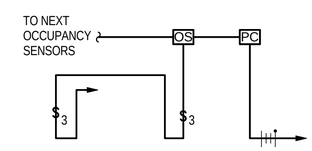
3 PROVIDE OUTDOOR RATED 120V PHOTO SENSOR INLINE SWITCH WITH ADJUSTABLE EYELID. SEE WIRING DIAGRAM ON THIS SHEET.

4 PROVIDE OUTDOOR RATED OCCUPANCY SENSOR, WATT STOPPER #EW-200-120-6 MOUNT DEVICE AT +8'-0" AFF. PROVIDE POWER PACK AS REQUIRED SEEE WIRING DIAGRAM ON THIS SHEET.



1 BUILDING C - LIGHTING REFLECTED CEILING PLAN

1/8" = 1'-0"



2 LIGHTING CONTROL DIAGRAM

NOT TO SCALE

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BUILDING C LIGHTING PLAN

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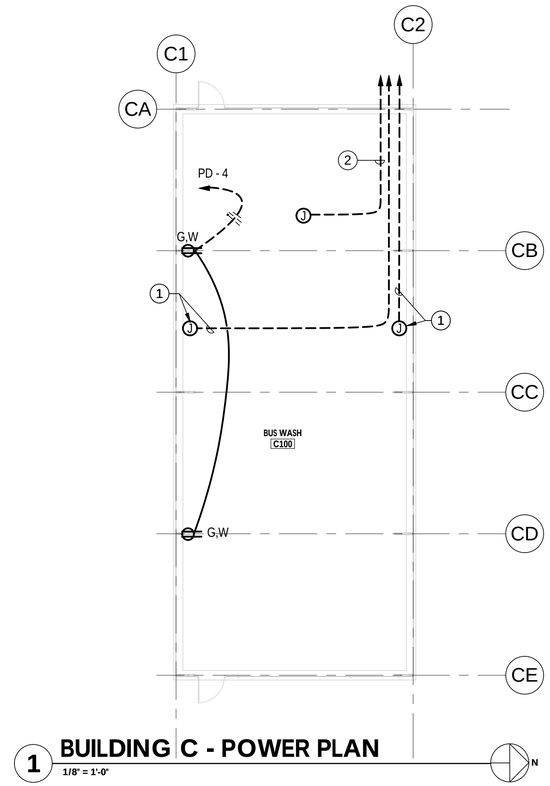

1 **BUILDING C - POWER PLAN**
1/8" = 1'-0"

GENERAL NOTES

1. CIRCUITS, WIRE SIZE AND WIRE HASH MARKS ARE SHOWN FOR CIRCUIT CLARITY BUT MAY NOT NECESSARILY REPRESENT THE COMPLETE WIRING COUNT OR SIZES FOR CONNECTING CIRCUITS SHOWN. INCLUDE IN THE BID ALL REQUIRED WIRING SIZES AND NUMBER OF CONDUCTORS TO INSTALL ALL CIRCUITS SHOWN. FOR MULTI-CIRCUIT HOMERUNS, CONTRACTOR CAN CHOOSE TO UPSIZE CONDUCTORS OR PROVIDE SEPARATE CONDUITS. SEE NEC TABLE 310.15(B)(3)(a).
2. COORDINATE EXACT LOCATION AND FUSED DISCONNECT SIZE OF ALL MECHANICAL EQUIPMENTS BEFORE ROUGH-IN.
3. ELECTRICAL CONTRACTOR MUST COORDINATE ALL CONDUIT ROUTING AND DEVICE LOCATIONS WITH THE MECHANCAL AND FIRE SPRINKLER.
4. COORDINATE RECEPTACLE LOCATIONS WITH ARCHITECTURAL INTERIOR ELEVATIONS.
5. COORDINATE RECEPTACLE CONDUIT ROUTING WITH EXTERIOR WINDOWS. SEE ARCHITECTURAL INTERIOR ELEVATION.
6. 120V CIRCUITS OVER 150 FEET IN LENGTH SHALL BE #10 CONDUCTORS.

CONSTRUCTION NOTES

1 BUS WASH CONTROL STATION. PROVIDE 1/2" CONDUIT FOR CONTROLS. WIRING BY BUS WASH SYTEM CONTRACTOR.

2 PROVIDE 1/2" CONDUIT FOR FLOAT SWITCH WIRING. WIRING BY BUS WASH SYSTEM CONTRACTOR.

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BUILDILNG C POWER PLAN

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MAINTENANCE, OPERATIONS AND ADMINISTRATION CENTER

FTA PROJECT NUMBER: WA-0180-02

PORT TOWNSEND, WASHINGTON

BUILDING D

BID SET

FEBRUARY 5, 2014

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GENERAL

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ARCHITECTURAL

Ad2.01	BUILDING D BUS WASH EQUIPMENT

STRUCTURAL

Sd2.01	FOUNDATION PLAN AND ROOF FRAMING PLAN BUILDING D
Sd5.01	FOUNDATION DETAILS BUILDING D
Sd7.01	ROOF DETAILS BUILDING D

MECHANICAL

Md1.01	WASH EQUIPMENT BUILDING

ELECTRICAL

Ed0.01	BUILDING D ELECTRICAL PLANS

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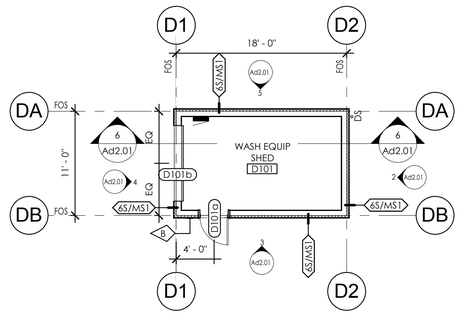
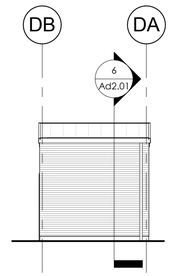
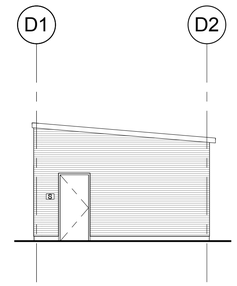


1 BUILDING D FLOOR PLAN
1/8" = 1'-0"



2 N EXT ELEV
1/8" = 1'-0"



3 E EXT ELEV
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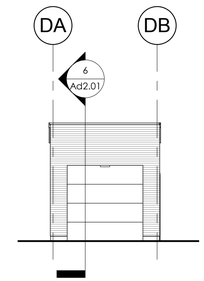
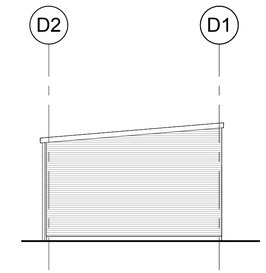
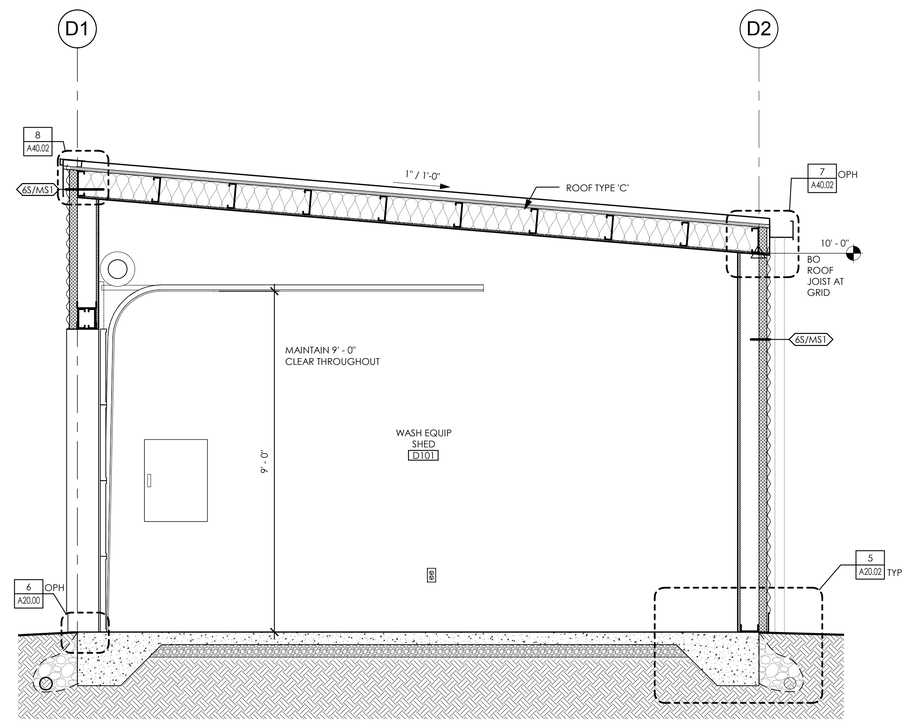


4 S EXT ELEV
1/8" = 1'-0"



5 W EXT ELEV
1/8" = 1'-0"



6 BUILDING D BUILDING SECTION
1/2" = 1'-0"

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EQUIPMENT

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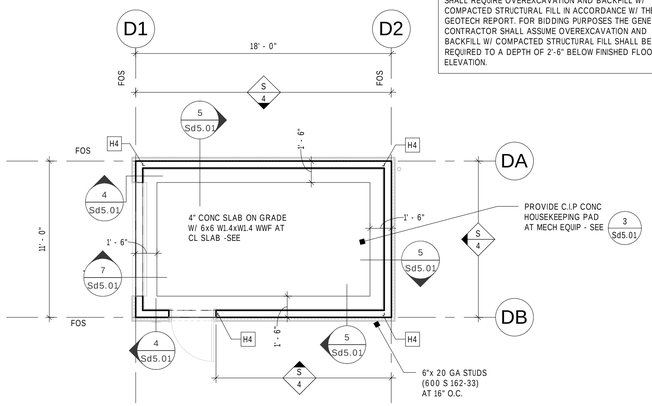
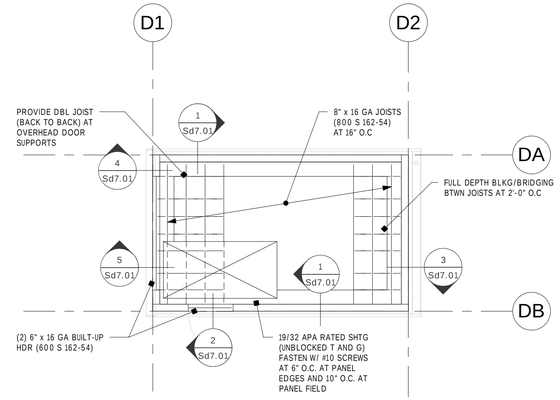


1 BUILDING D FOUNDATION PLAN
3/16" = 1'-0"



2 BUILDING D ROOF FRAMING PLAN
3/16" = 1'-0"

STEEL STUD SHEARWALL SCHEDULE

MARK	SHEATHING	ATTACHMENT		BLKG(5)	ANCHOR BOLT SIZE AND SPACING(7)	WALL SHEAR CAPACITY	NOTES
		SCREWS	SPACING				
S 3	15/32" APA RATED SHTG ONE SIDE OF WALL	#8 x 1" FLAT HEAD WITH MINIMUM HEAD DIA = 0.292"	4" O.C. EDGES 12" O.C. FIELD	YES	3/4" DIA AT 32" O.C.	700 PLF (ULT)	

1. STUDS SHALL BE MINIMUM 3-1/2" WITH 1-5/8" FLANGE WITH A 3/8" RETURN LIP. TRACK SHALL BE A MINIMUM 1-1/4" BY 3-1/2"
2. STUD AND TRACK HAVE MINIMUM UNCOATED BASE THICKNESS OF 0.033"
3. FRAMING SCREWS SHALL BE 8" BY 5/8" WAFER HEAD SELF-DRILLING BY AMERICAN OR CANADIAN MANUFACTURER ONLY. SCREWS SHALL BE OF SUFFICIENT LENGTH TO ENSURE PENETRATION INTO STEEL FRAMING BY AT LEAST TWO FULL DIAMETER THREADS.
4. ORIENT SHEATHING EITHER PARALLEL OR PERPENDICULAR TO FRAMING, STAGGER JOINTS EACH SIDE OF WALL.
5. PROVIDE A MINIMUM 2" WIDE x 18 GA STRAP BLOCKING TO MATCH STUD GAGE AT HORIZONTAL JOINTS. PROVIDE 4" x 18 GA SOLID BLOCKING W/ 1 5/8" FLANGE BETWEEN FIRST TWO END STUDS.
6. SHEATHING SHALL RUN CONTINUOUS THROUGH BREAKS CAUSED BY INTERSECTING WALLS.
7. ANCHOR BOLTS SHALL HAVE A MINIMUM 7" EMBEDMENT. EXPANSION ANCHORS SHALL HAVE A MINIMUM EMBEDMENT OF 5" WHERE PERMITTED. PROVIDE A MINIMUM OF (2) ANCHOR BOLTS PER PIECE. AT NON-SHEAR WALLS PROVIDE A MINIMUM OF 3/4" DIA ANCHOR BOLTS AT 48" O.C.
8. THE SHEAR WALL DESIGNATION APPLIES TO EXTENT OF WALL NOTED ON PLANS. DO NOT SHEATH WALL ABOVE AND BELOW OPENINGS UNLESS SPECIFICALLY NOTED ON PLANS.
9. SCREW SPACING APPLIES TO ALL STUDS, TOP AND BOTTOM PLATES AND BLOCKING.
10. MINIMUM SHEATHING DIMENSION SHALL BE 610mm (24") AT BOUNDARIES AND CHANGES IN FRAMING UNLESS ALL EDGES ARE BLOCKED.
11. PROVIDE DOUBLED STUD (BACK TO BACK) AT EACH END OF SHEAR WALLS, U.N.O.
12. FASTENERS ALONG THE EDGES OF SHEAR PANELS SHALL BE PLACED NOT LESS THAN 3/8" IN FROM PANEL EDGES.
13. PDF FASTENERS SHALL NOT BE USED IN LIEU OF ANCHOR BOLTS AT CONNECTIONS TO CONCRETE AT SHEARWALLS. AT NON-SHEARWALLS PDF SPACING SHALL NOT EXCEED 16" O.C

3 STEEL STUD SHEARWALL SCHEDULE
N.T.S.

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Sheet Title
FOUNDATION PLAN AND ROOF FRAMING PLAN BUILDING 'D'

Drawn By **SSO** Checked By **ADM**

Sheet Number
Sd2.01

Sheet Number 149 Of 203

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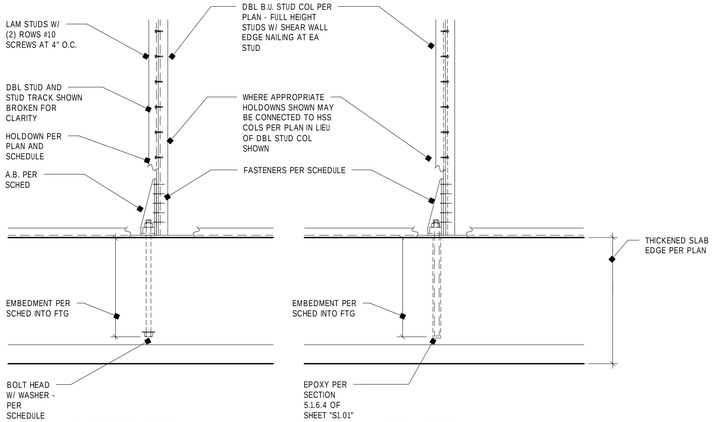


EMBEDDED ANCHOR

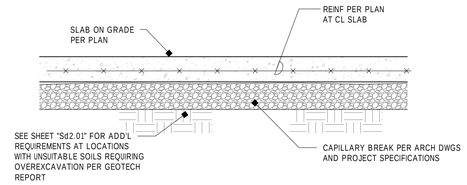
EPOXY OPTION

HOLDOWN SCHEDULE

MARK	HOLDOWN	FOUNDATION ANCHOR	FASTENERS	EMBEDMENT	HOLDOWN CAPACITY	NOTES
H4	S/HDU4	5/8" DIA	(6) #14	8"	3825 lbs (ASD)	

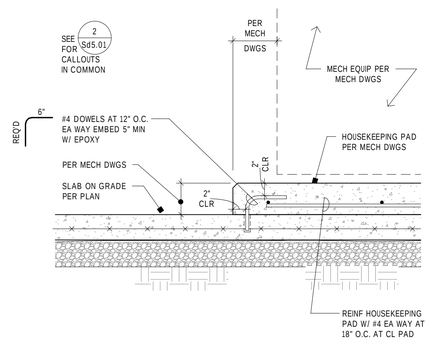
1 SECTION

1" = 1'-0" TYP HOLDOWN REQUIREMENTS



2 SECTION

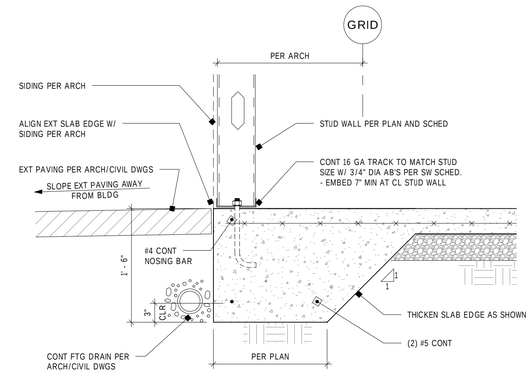
1" = 1'-0" D FD 1d



TYP HOUSEKEEPING PAD

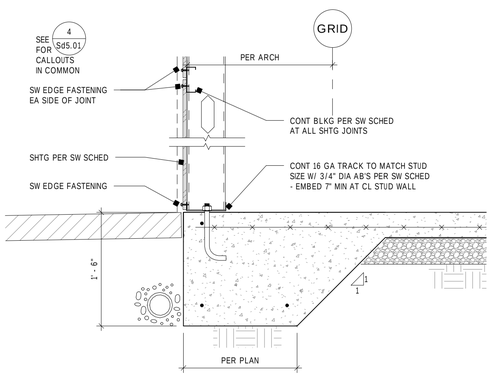
3 SECTION

1" = 1'-0" D FD 2d



4 SECTION

1" = 1'-0" D FD 19



5 SECTION

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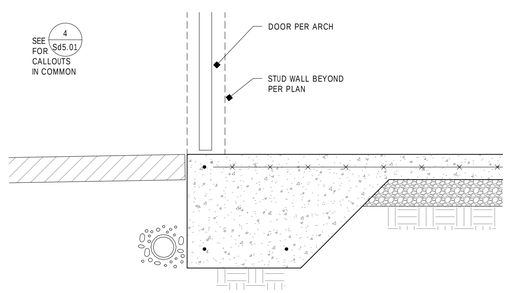
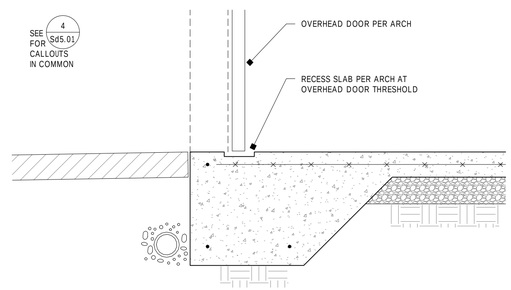


6 SECTION

1" = 1'-0" D FD 44 "D"



7 SECTION

1" = 1'-0" D FD 45 "D"

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FOUNDATION DETAILS BUILDING 'D'

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Sd5.01

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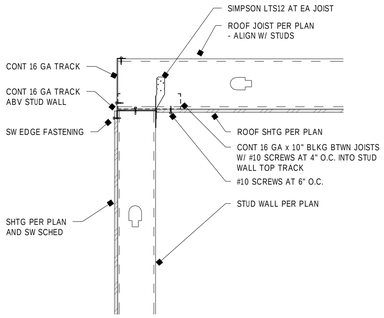
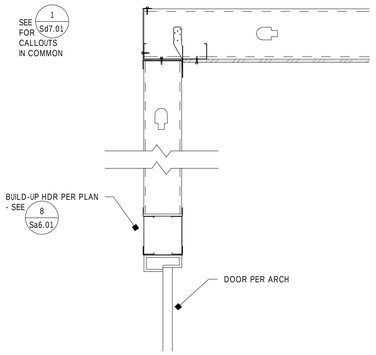


1 SECTION
1" = 1'-0" D RF 26 'D'



2 SECTION
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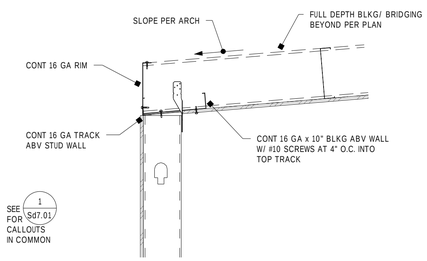

3 SECTION
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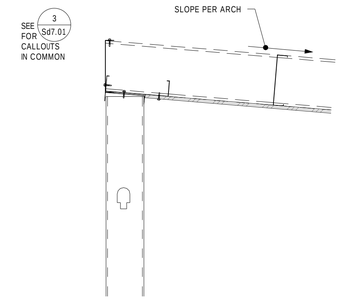

4 SECTION
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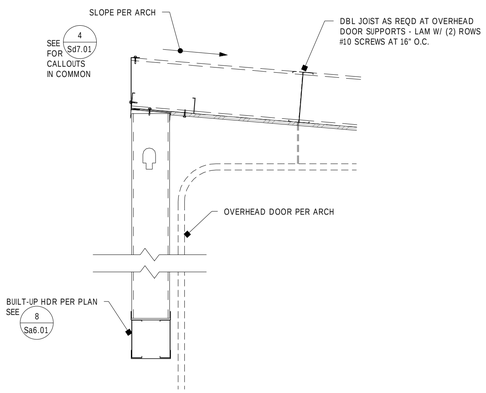

5 SECTION
1" = 1'-0" D RF 30 'D'

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ROOF DETAILS BUILDING 'D'

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MECHANICAL LEGEND

HVAC

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
T	THERMOSTAT (T'STAT)		

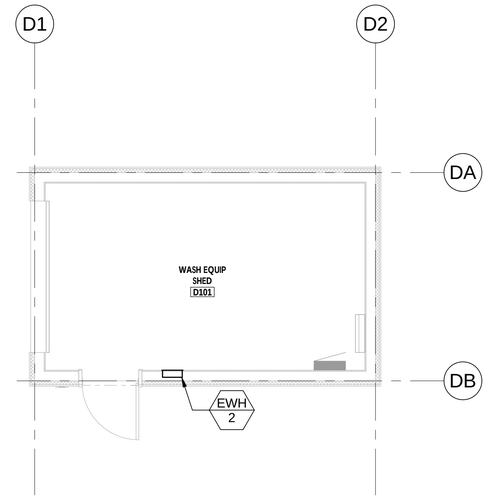
PLUMBING/HYDRONIC

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	GLOBE VALVE		DOMESTIC COLD WATER (CW)
	PRESSURE REDUCING VALVE (PRV)		SOIL, WASTE (S, W)
	CHECK VALVE (CV)		VENT (V), OR HIDDEN BELOW WASTE
	FLOW CONTROL VALVE		WASTE OR VENT UP
	TEMP./PRESS. RELIEF VALVE (T&PRV)		IN LINE WASTE CONNECTION
	BALL VALVE		P-TRAP
	2-WAY CONTROL VALVE		BRANCH PIPE DOWN
	3-WAY CONTROL VALVE		BRANCH PIPE UP
	4-WAY CONTROL VALVE		TEE & UP
	PIPE DOWN		TEE
	PIPE UP		ELBOWS, 90° & 45°
	BRANCH-TOP CONNECTION		CAP
	BRANCH-BOTTOM CONNECTION		PUMP
	BRANCH-SIDE CONNECTION	T	THERMOMETER
	FLOW DIRECTION	P	PRESSURE GAGE
OR	VALVE IN RISER / DROP		FLOOR DRAIN
	PIPE ANCHOR		FLOOR FUNNEL DRAIN
	PIPE GUIDE		CROSSING LINES, NON CONNECTING
	FLEXIBLE CONNECTION (PIPE)		PIPE CONTINUATION
	REDUCER		TRAP PRIMER WITH ACCESS PANEL
	STRAINER	MC	MECHANICAL CONTRACTOR
	UNION	EC	ELECTRICAL CONTRACTOR
	VACUUM BREAKER	GC	GENERAL CONTRACTOR
	DRAIN VALVE	POC	POINT OF CONNECTION
	WALL HYDRANT	BFF	BELOW FINISHED FLOOR
A	AQUASTAT	AFF	ABOVE FINISHED FLOOR

23 82 39 BUILDING D - ELECTRIC WALL HEATER SCHEDULE

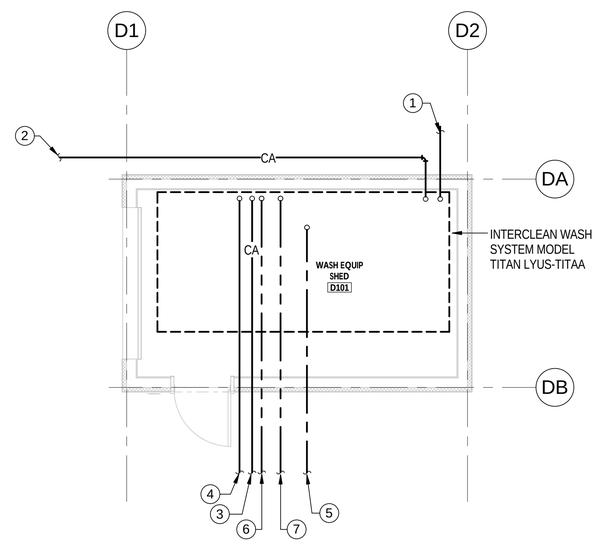
UNIT NO.	MFR.	MODEL	LOCATION	ELECTRICAL WATTS	ELECTRICAL VOLTS	ELECTRICAL ø	NOTES
EWH 2	KING	PAW1205	WASH EQUIP. BUILDING	500	120	1	(1)

NOTES FOR ELECTRIC WALL HEATER SCHEDULE
(1) SET TEMPERATURE TO 45ºF.



1 BUILDING D MECHANICAL PLAN

1/4" = 1'-0"



2 BUILDING D BELOW GRADE PLUMBING PLAN

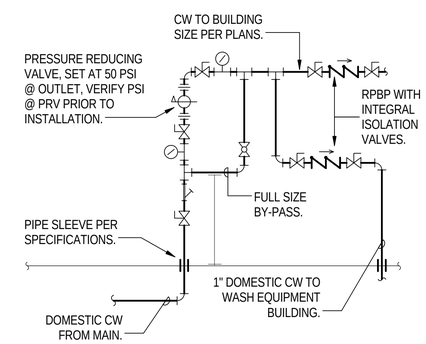
1/4" = 1'-0"

GENERAL NOTES

1. PIPING AND FITTINGS ARE SHOWN OFFSET FOR CLARITY. ROUTE PIPING AS CLOSE TO PLANS AS BUILDING CONDITIONS PERMIT. COORDINATE WITH ALL TRADES PRIOR TO INSTALLATION.
2. SEE WASH SYSTEM DIAGRAM ON SHEET Ma5.02.
3. COORDINATE ALL STUB-UP LOCATIONS WITH WASH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.

CONSTRUCTION NOTES

1. 1" CW SUPPLY FROM BUILDING A. SEE SHEETS Ma2.01 AND Ma3.01 FOR CONTINUATION. BACKFLOW PREVENTER FOR WASH SYSTEM LOCATED IN BUILDING A UTILITY ROOM.
2. 3/4" COMPRESSED AIR SUPPLY FROM BUILDING A. SEE SHEETS Ma2.01 AND Ma3.01 FOR CONTINUATION.
3. 3/4" COMPRESSED AIR CONNECTION TO WASH TENT SUMP.
4. 4" RECLAMATION SUCTION FROM WASH TENT SUMP.
5. 1-1/4" RECLAIMED WATER SUPPLY TO WASH TENT PRESSURE WASHING WANDS.
6. 2" CIRCULATION / AERATION SUCTION TO WASH TENT SUMP.
7. 2" CIRCULATION / AERATION DISCHARGE TO WASH TENT SUMP.



3 DOMESTIC WATER HEADER DETAIL

DIAGRAMMATIC

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WASH EQUIPMENT BUILDING

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ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	LIGHTING
	SURFACE OR PENDANT MOUNT FLUORESCENT LIGHT FIXTURE (CIRCLE INDICATES RECESSED OR CONCEALED JUNCTION BOX)
	RECEPTACLES
	DUPLEX RECEPTACLE (E INDICATES EXISTING TO BE REPLACED)
	MISCELLANEOUS
1	CONSTRUCTION NOTES
W	W INDICATES WEATHERPROOF FOR ALL DEVICES, PROVIDE LOCKING COVER ON RECEPTACLES.
WG	WG INDICATES WIRE GUARD
AH1 / 1	MECHANICAL EQUIPMENT CONNECTION
EQ-XXXXX	EQUIPMENT CONNECTION

SYMBOL	DESCRIPTION
	SWITCHES
$ OS	COMBINATION SWITCH / OCCUPANCY SENSOR
	EQUIPMENT AND WIRING
	CONDUIT STUB OUT (PROVIDE CONCRETE MARKER ON EXTERIOR)
	DEDICATED CONDUIT HOMERUN TO PANEL & CIRCUIT NUMBERS AS INDICATED ON PLANS
	RACEWAY CONCEALED IN WALL OR CEILING
	RACEWAY CONCEALED UNDERGROUND OR UNDER FLOOR SLAB
	MARKS INDICATE NUMBER OF #12 AWG UNLESS NOTED OTHERWISE
	GROUNDING CONDUCTOR
	120/208 VOLT PANELBOARD (OR AT RATED VOLTAGE AS NOTED)

PANEL: PD | PHASE: 3 | VOLTAGE: 208Y/120V | FEED TYPE: Bottom
LOCATION: WASH EQUIP SHED... | MOUNT: Surface | WIRE: 4 | 30 A MCB
TYPE: Type 1 | POLES: 30 | SF MAINS: | 10,000 AIC MINIMUM

LC	#	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	#	LC
R	1	R WASH EQUIP SHED D101	20	1	360 VA	59 VA					1	20	LIGHTING WASH EQUIP SHED D101	2	L
H	3	EWH2	20	1			500 VA	1180 VA			1	20	BUILDING C RECEPTACLE	4	R; E
--	5	SPARE	20	1					0 VA	590 VA	1	20	BUILDING C LIGHTING	6	L
--	7	SPARE	20	1	0 VA									8	
--	9	SPARE	20	1			0 VA							10	
	11													12	
	13													14	
	15													16	
	17													18	
	19													20	
	21													22	
	23													24	
	25													26	
	27													28	
	29													30	
		Total Connected Load (VA):			419 VA		1680 VA		590 VA						
		Total Connected Current (A):			3		14		5						

L (125%) = 811 VA
R<10,0001(100%) = 540 VA
R>10,000 (50%) = 0 VA
RECEPTS TOTAL = 540 VA
AW (ESTIMATED DEMAND) =
AW (DEMAND FACTOR) =

H (100%) = 500 VA
Motor-LARGE (125%) = 0 VA
Motor-OTHER (100%) = 0 VA
MOTOR TOTAL =
RW (ESTIMATED DEMAND) =
RW (DEMAND FACTOR) =

WH (100%) =
K (65%) =
A (100%) =
D (100%) =
E (80%) = 1000 VA

Panel Totals	
Total Conn. Load:	2689 VA
Total Conn. Current:	7 A
Total Demand Load:	2851 VA
Total Demand Current:	8 A

Notes: L = LIGHTING, R = RECEPTACLES, Motor = MOTOR LOADS, H = ELECTRIC HEAT, WH = WATER HEATER, K = KITCHEN EQUIP., A = APPLIANCES, D = DEDICATED LOADS, SF = SUB-FEEDS, E = EQUIP., AW = ARC WELDER, RW = RESISTIVE WELDER

GENERAL NOTES

1. COORDINATE WITH BUS WASH SYSTEM INSTALLER FOR EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT.

CONSTRUCTION NOTES

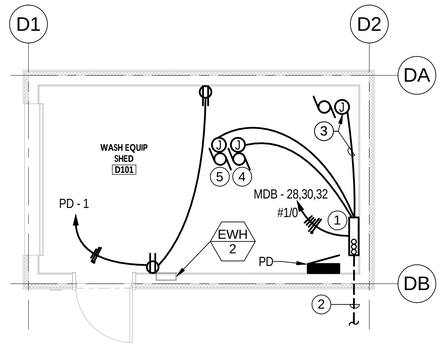
#	
1	BUS WASH CONTROL PANEL, 208Y/120V, 3PH, 4-WIRE, 113A. PROVIDE 3P-150A FUSED DISCONNECT AS REQUIRED..
2	SEE Ec3.01 FOR CONTINUATION OF CIRCUITS.
3	BUS WASH PUMP - 25HP, 208V, 3PH. PROVIDE 1-1/2" CONDUIT WITH (4) #2 AWG-CU BACK TO CONTROL PANEL.
4	BUS WASH PUMP - 2HP, 208V, 3PH - PROVIDE WITH 1" CONDUIT WITH (4) #12 AWG-CU BACK TO CONTROL PANEL.
5	BUS WASH PUMP - 7-1/2HP, 208V, 3PH - PROVIDE WITH 1" CONDUIT WITH (4) #10 AWG-CU BACK TO CONTROL PANEL.

BUILDING D LIGHTING FIXTURE SCHEDULE

SYMBOL	MFR.	MODEL	CATALOG #	LAMP PROPERTIES QTY.	W	TYPE	TEMP.	VOLTS/WATTS V	W	DESCRIPTION
PF6	BEGHELLI	ILLUMINA	BS100T5-4-HT-154W-120/277-CH	1	54 W	T5	3500 K	120 V	59 W	4' CHAIN HUNG PENDANT FLUORESCENT FIXTURE. WET LOCATION, CLASS 1, DIV, 2 LISTED.

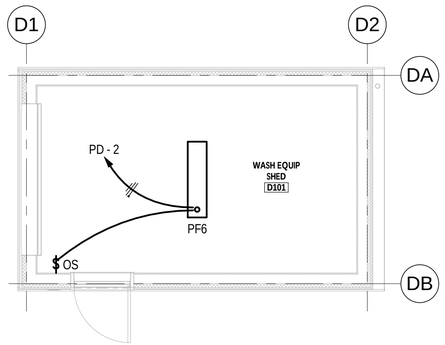
BUILDING D MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

UNIT NO	LOAD PROPERTIES: MOTORS #1 HP	#2 HP	WATTS	MCA	MOP	CIRCUIT PROPERTIES: PANEL	CKT #	V	Ø	RUN PROPERTIES: # OF RUNS	CONDUIT SIZE	WIRE PROPERTIES: AWG-Cu	#H	#N	MANUAL STARTER FURN. BY	MAGNETIC STARTER FURN. BY	FUSED DISC. FURN BY	DUCT SMOKE DETECTOR (SEE NOTE #1)
EWH 2	0		500	0		PD	3	120	1		3/4"	#12	1	1	EC			



1 BUILDING D - POWER PLAN

1/4" = 1'-0"



2 BUILDING D - LIGHTING REFLECTED CEILING PLAN

1/4" = 1'-0"

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Sheet Title
BUILDING D ELECTRICAL PLANS

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DETAILS

FEBRUARY 5, 2014

SHEET INDEX

GENERAL

Gds1.01	DETAIL COVER SHEET

ARCHITECTURAL

A10.00	SITE DETAILS	A62.01	INTERIOR ALUMINUM FRAME AND POCKET DOOR DETAILS
A10.01	SITE DETAILS	A63.00	INTERIOR FRAMES AND SCHEDULES
A20.00	FOUNDATION DETAILS	A64.00	EXTERIOR FRAMES AND SCHEDULES
A20.01	FOUNDATION DETAILS	A64.01	EXTERIOR FRAMES AND SCHEDULES
A20.02	FOUNDATION DETAILS	A64.02	EXTERIOR FRAMES AND SCHEDULES
A21.00	FLOOR TYPES	A65.00	EXTERIOR ALUMINUM FRAME DETAILS
A22.01	FLOOR DETAILS	A65.01	EXTERIOR ALUMINUM FRAME DETAILS
A30.00	EXTERIOR WALL TYPES	A65.02	EXTERIOR ALUMINUM FRAME DETAILS
A31.00	EXTERIOR WALL DETAILS	A65.03	EXTERIOR ALUMINUM FRAME DETAILS
A31.01	EXTERIOR WALL DETAILS	A65.04	EXTERIOR ALUMINUM FRAME DETAILS ADDITIVE ALTERNATE (AA-3)
A32.00	INTERIOR WALL TYPES	A65.05	EXTERIOR HOLLOW METAL FRAME DETAILS
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A36.01	MISC. EXTERIOR DETAILS	A66.00	MISC OPENING DETAILS
A36.02	MISC. EXTERIOR DETAILS	A70.00	INTERIOR FINISH SCHEDULE
A40.00	ROOF TYPES	A70.01	COLOR AND MATERIAL SCHEDULE
A40.01	ROOF DETAILS	A71.01	INTERIOR DETAILS
A40.02	ROOF DETAILS	A72.00	SIGNAGE SCHEDULE
A42.01	CEILING DETAILS	A73.00	SIGNAGE TYPES AND DETAILS
A42.02	CEILING DETAILS (ADDITIVE ALTERNATE AA-2)	A73.01	SIGNAGE TYPES AND DETAILS
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A60.01	LOUVER SCHEDULE	A80.01	CASEWORK SCHEDULE
A60.02	LOUVER FRAME DETAILS	A81.01	CASEWORK DETAIL
A60.03	LOUVER FRAME DETAILS	A81.02	CASEWORK DETAILS
A61.00	DOOR TYPES		
A61.01	DOOR SCHEDULES		
A62.00	INTERIOR HOLLOW METAL FRAME DETAILS		

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Adams Consulting and Estimating

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Email: gadams@w-link.net

COST CONTROL CONSULTANT
Robinson Company

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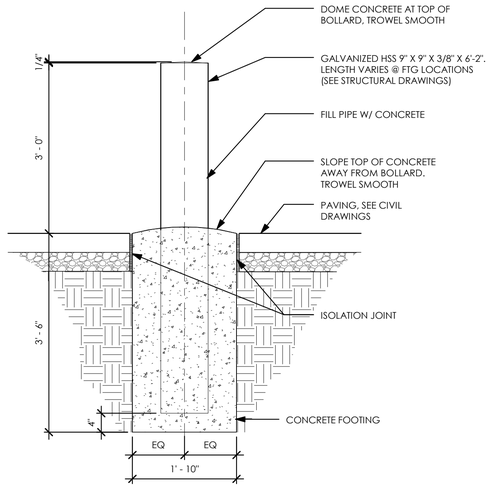
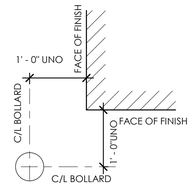
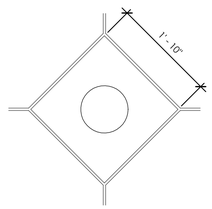
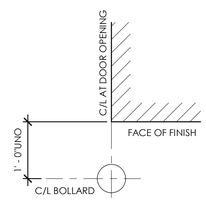




BOLLARD LOCATION PLAN AT BUILDING CORNER, UNO



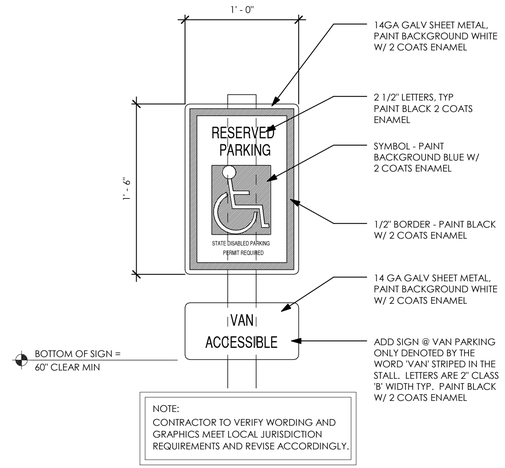
BOLLARD BLOCK-OUT



BOLLARD LOCATION PLAN AT OPENING, UNO

5 FIXED PIPE BOLLARD

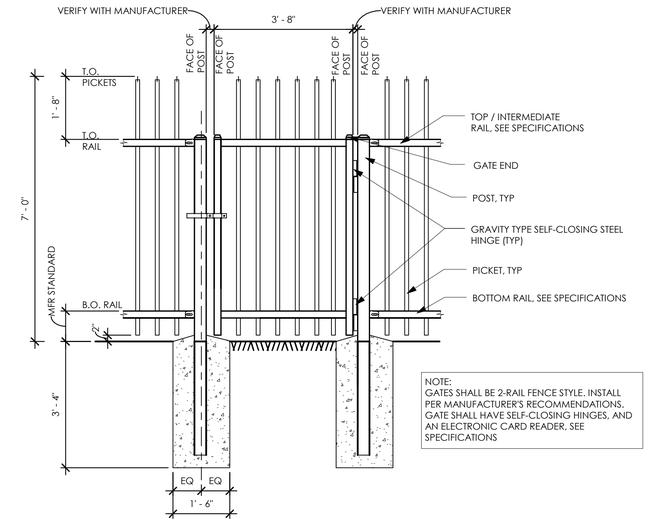
3/4" = 1'-0"



NOTE:
CONTRACTOR TO VERIFY WORDING AND GRAPHICS MEET LOCAL JURISDICTION REQUIREMENTS AND REVISE ACCORDINGLY.

3 ACCESSIBLE PARKING SIGN

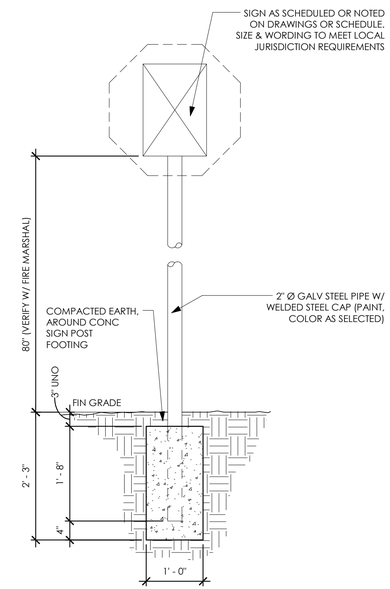
1 1/2" = 1'-0"



NOTE:
GATES SHALL BE 2-RAIL FENCE STYLE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. GATE SHALL HAVE SELF-CLOSING HINGES, AND AN ELECTRONIC CARD READER. SEE SPECIFICATIONS

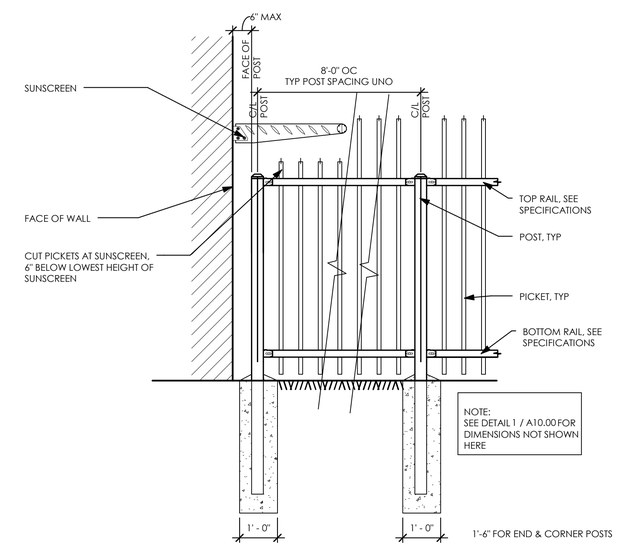
1 ORNAMENTAL FENCE GATE

1/2" = 1'-0"



4 SITE SIGN DETAIL

3/4" = 1'-0"



NOTE:
SEE DETAIL 1 / A10.00 FOR DIMENSIONS NOT SHOWN HERE

2 ORNAMENTAL FENCE DETAIL

1/2" = 1'-0"

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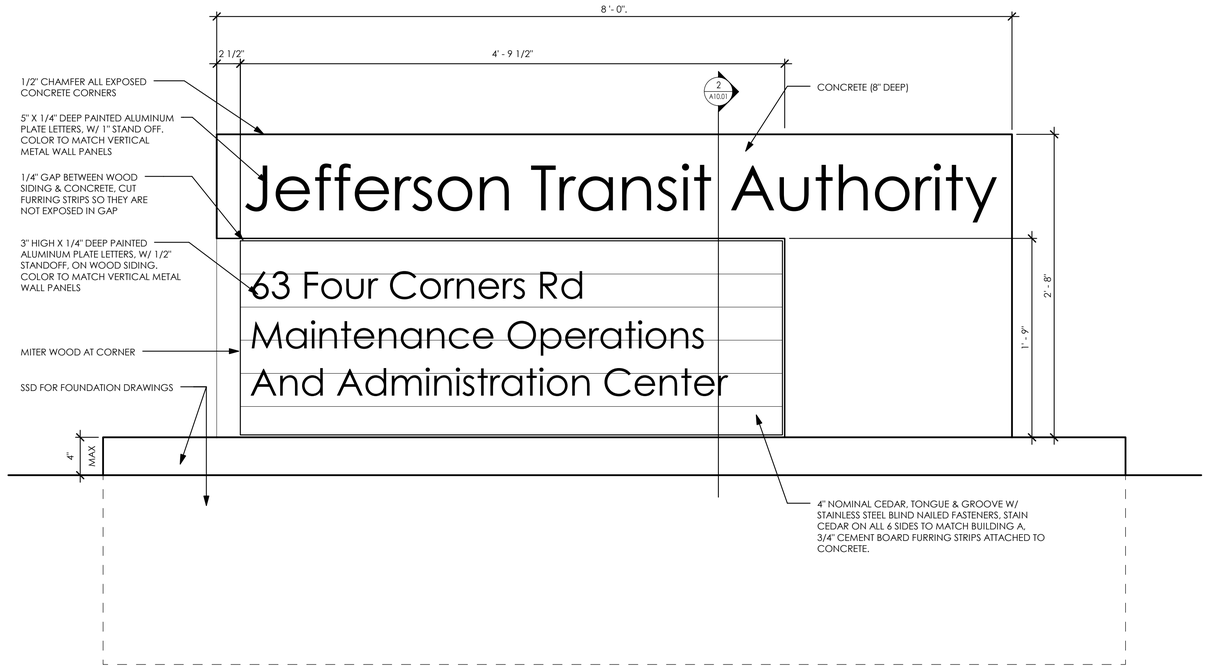
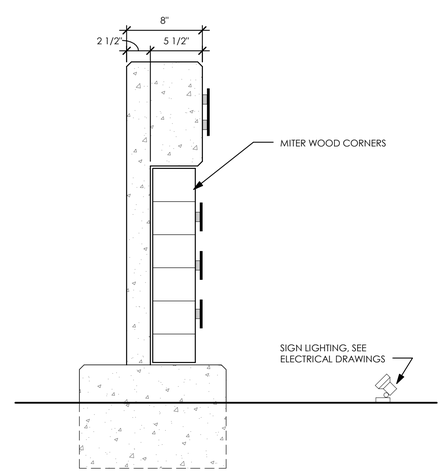


1 MONUMENT SIGN EXTERIOR ELEVATION

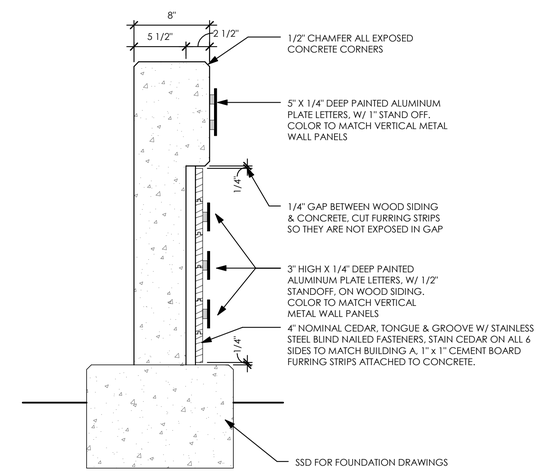
1 1/2" = 1'-0"

SEE 1 / A10.01
FOR CALLOUTS IN COMMON



3 MONUMENT SIGN ELEVATION

1 1/2" = 1'-0"



2 MONUMENT SIGN SECTION

1 1/2" = 1'-0"

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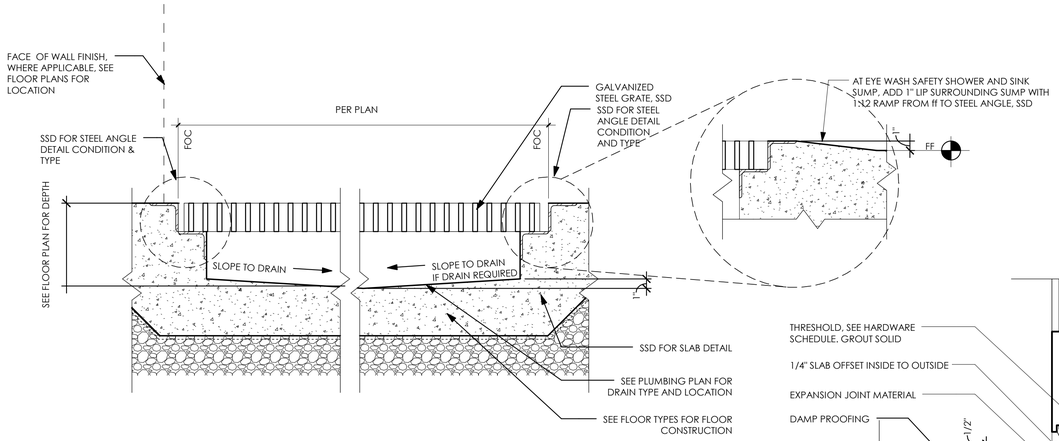
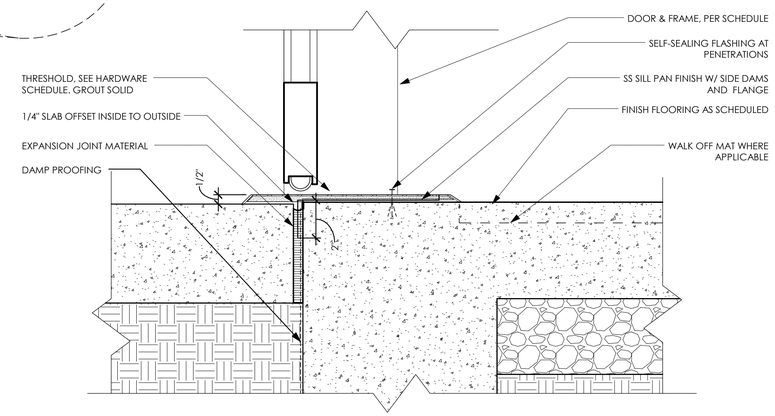
FOUNDATION AND FLOOR TYPE GENERAL NOTES

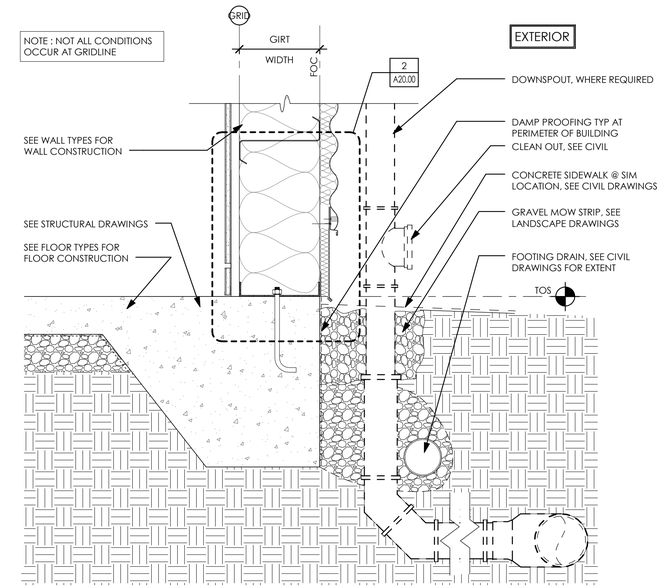
1. SEE SHEET A21.00 FOR FOUNDATION AND FLOOR TYPE GENERAL NOTES



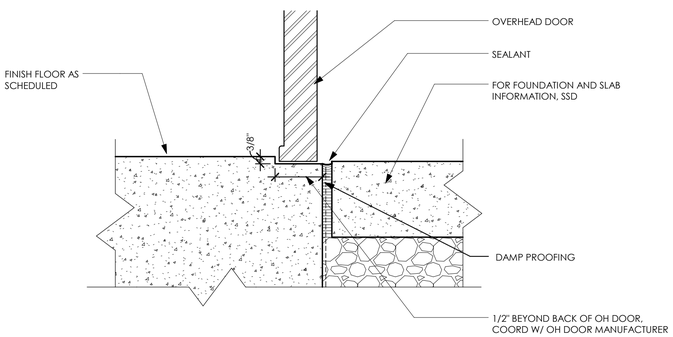
5 SUMP DETAIL
1 1/2" = 1'-0"



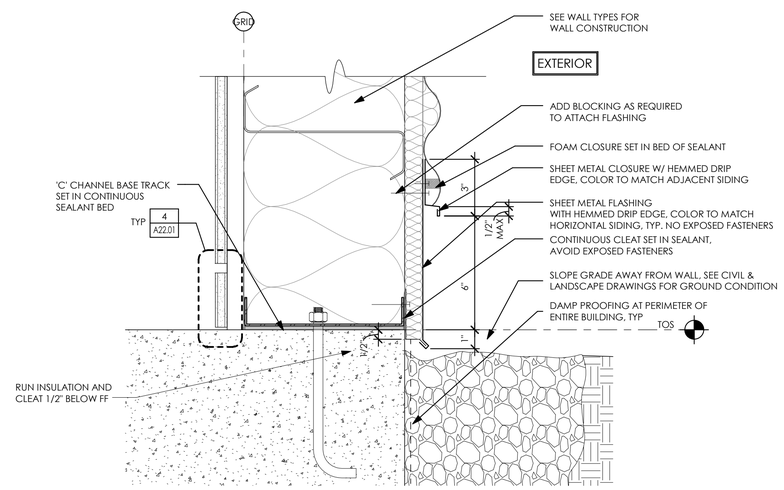
3 THRESHOLD DETAIL
3" = 1'-0"



1 FOUNDATION DETAIL @ HORIZONTAL SIDING
1 1/2" = 1'-0"

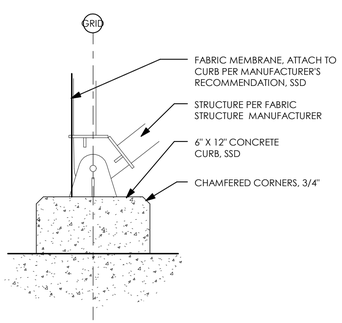


6 TYP @ OVERHEAD DOORS
3" = 1'-0"



2 ENLARGED FOUNDATION DETAIL @ HORIZONTAL SIDING
3" = 1'-0"

DETAIL 4 NOT USED



7 CONCRETE CURB @ BLDG C
1 1/2" = 1'-0"

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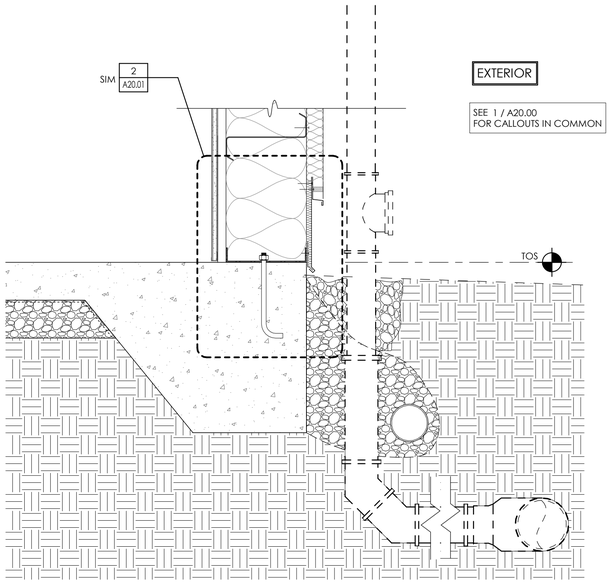
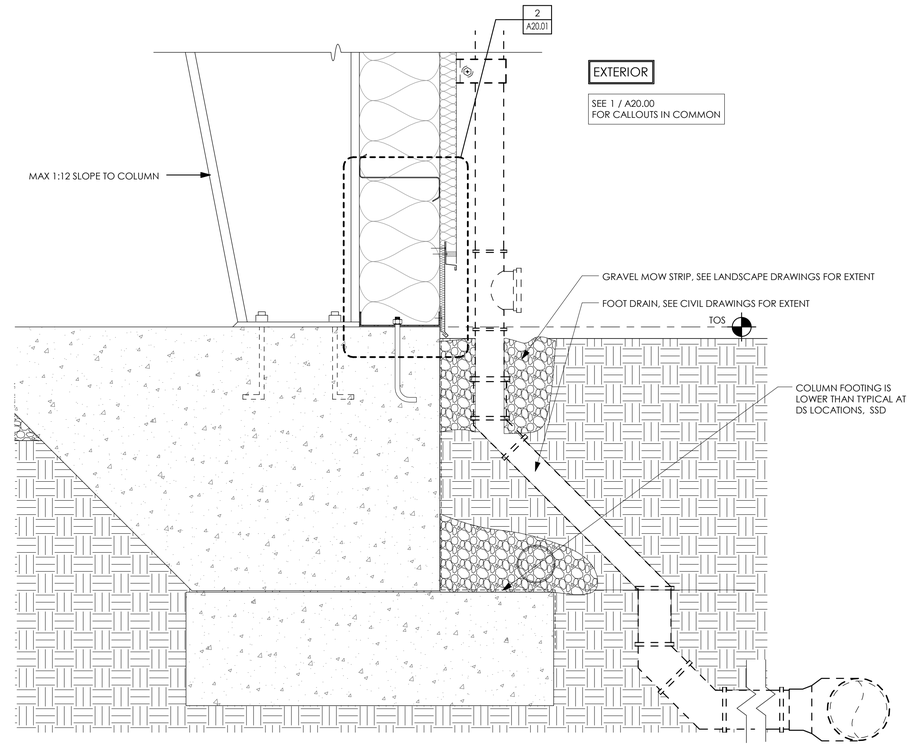


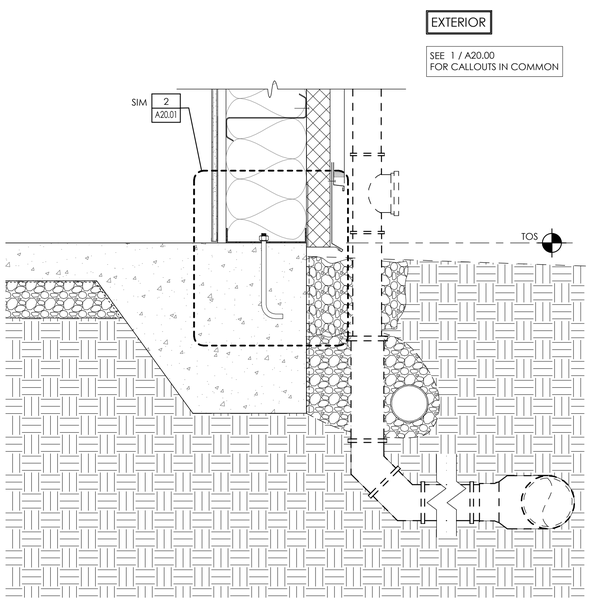
3 FOUNDATION DETAIL @ VERTICAL SIDING

1 1/2" = 1'-0"



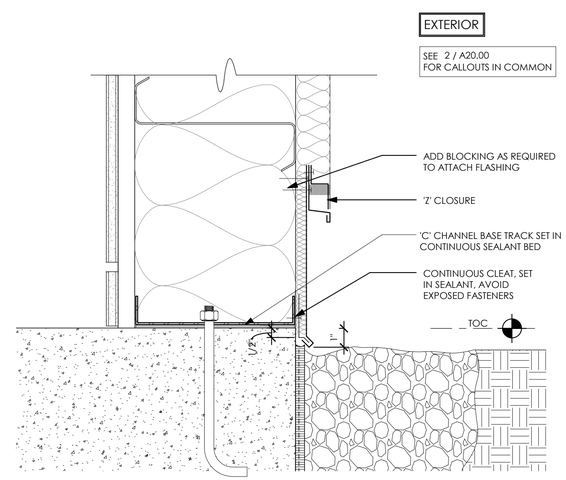
1 FOUNDATION DETAIL @ VERTICAL SIDING

1 1/2" = 1'-0"



4 FOUNDATION DETAIL @ VERTICAL SIDING

1 1/2" = 1'-0"



2 ENLARGED FOUNDATION DETAIL @ VERTICAL SIDING

3" = 1'-0"

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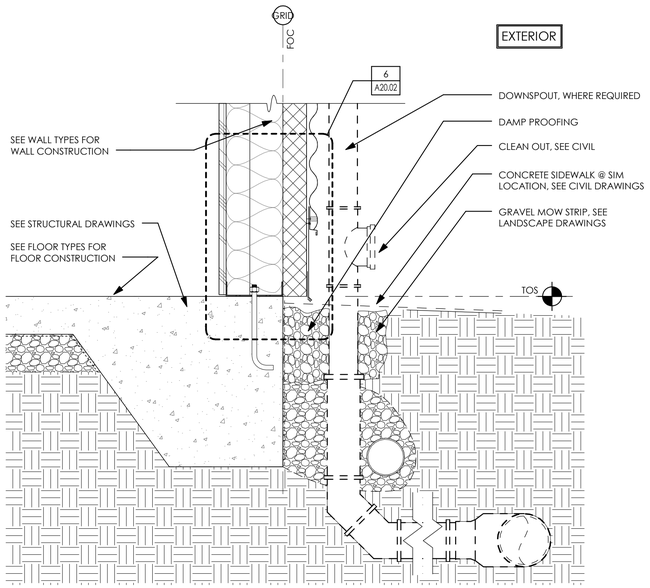
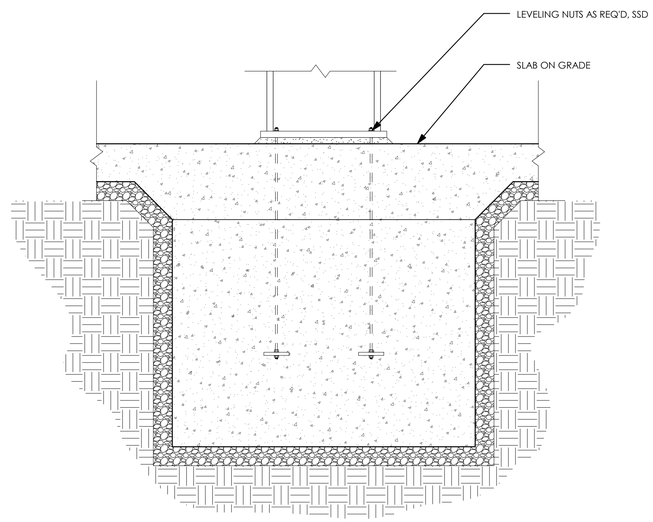


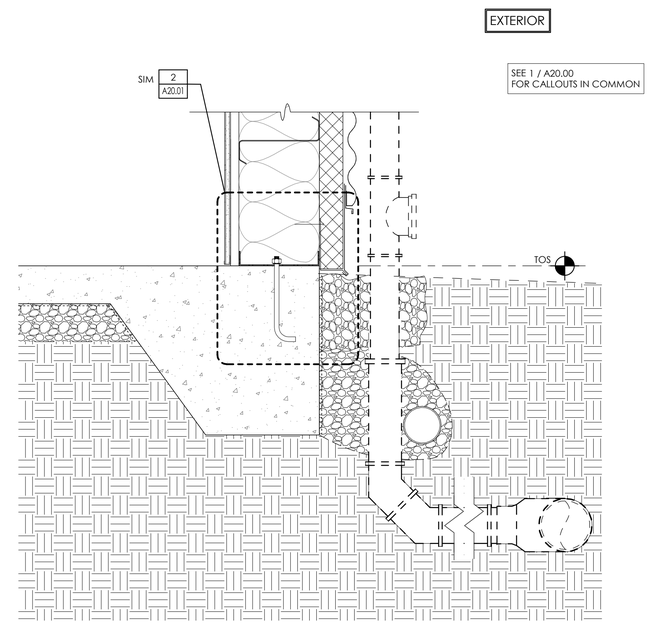
5 FOUNDATION DETAIL @ HORIZ SIDING DETAIL @ BLDG D

1 1/2" = 1'-0"



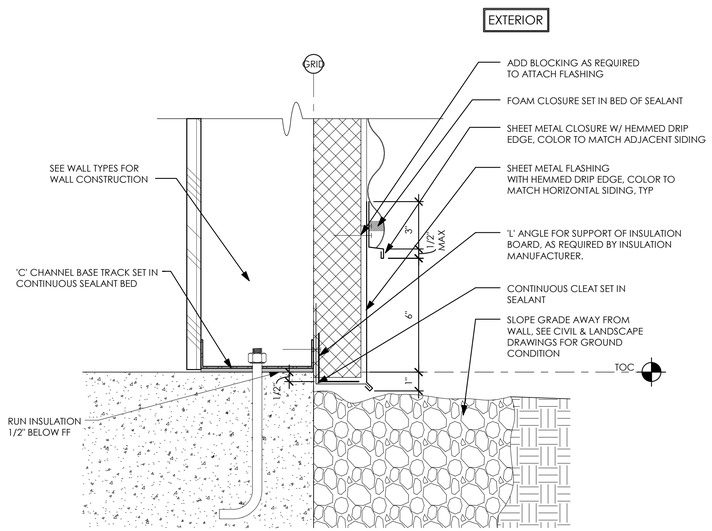
3 FOUNDATION DETAIL @ CANOPY - BLDG B

1" = 1'-0"



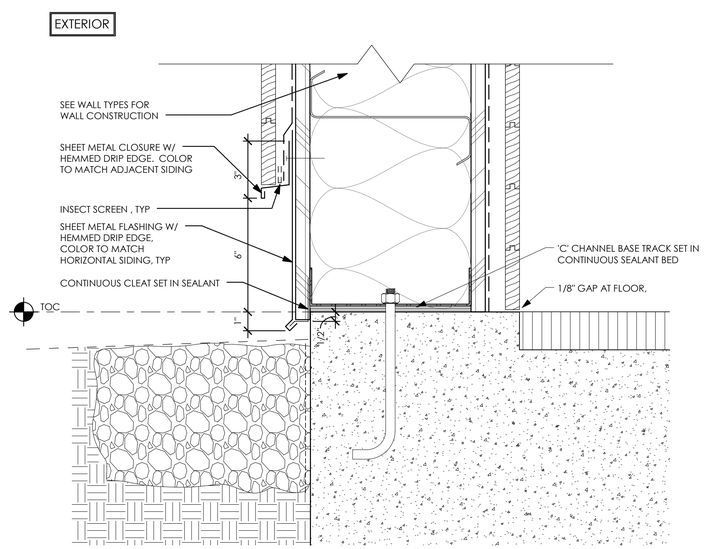
1 FOUNDATION DETAIL @ HORIZONTAL SIDING

1 1/2" = 1'-0"



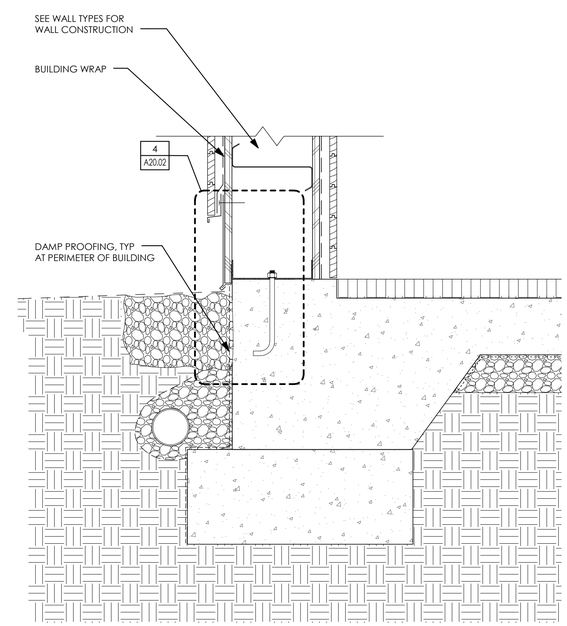
6 FOUNDATION DETAIL @ HORIZ SIDING @ BLDG D

3" = 1'-0"



4 FOUNDATION DETAIL @ WOOD SIDING

3" = 1'-0"



2 FOUNDATION DETAIL @ WOOD SIDING

1 1/2" = 1'-0"

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FOUNDATION AND FLOOR TYPES GENERAL NOTES

A. OTHER NOTES: SEE GENERAL NOTES ON G2 SERIES SHEETS FOR ADDITIONAL INFORMATION.

B. OTHER DRAWINGS: SEE FLOOR PLANS, DIMENSION PLANS, ENLARGED PLANS, FINISH SCHEDULE, AND COLOR SCHEDULE FOR ADDITIONAL INFORMATION.

C. STRUCTURAL REQUIREMENTS: REFER TO STRUCTURAL DRAWINGS AND DETAILS FOR CONCRETE REINFORCING AND OTHER STRUCTURAL REQUIREMENTS.

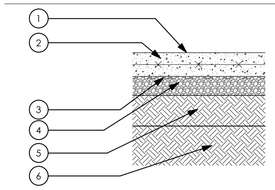
D. ATYPICAL CONDITIONS: DETAILS MAY BE LIMITED TO ILLUSTRATION OF TYPICAL CONDITIONS. CONTRACTOR SHALL ADAPT TYPICAL DETAILS FOR VARIANT AND SIMILAR CONDITIONS.

E. CIVIL COORDINATION: REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR MATERIALS BELOW SLABS. COORDINATE CIVIL AND ARCHITECTURAL DETAILING WITH RESPECT TO PERIMETER FOUNDATION DRAINAGE SYSTEMS, RAINLEADER / DOWNSPOUT LOCATIONS AND TIGHTLINE CONNECTIONS.

F. TOP OF SLAB ELEVATIONS: COORDINATE ALL TOP OF SLAB FLOOR ELEVATIONS WITH FINISHED GRADES. GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IF/WHEN DISCREPANCIES ARE IDENTIFIED PRIOR TO PROCEEDING.

G. EXCAVATION AND FILL: THE CONTRACTOR SHALL VERIFY SITE AND SOIL CONDITIONS AND PROVIDE ALL LABOR AND MATERIALS AS NECESSARY TO COMPLETE THE WORK OF THIS CONTRACT. WORK WILL GENERALLY INCLUDE EXCAVATION TO ELEVATIONS REQUIRED BY THIS WORK, AND STRUCTURAL FILL, BACKFILL, TOPSOIL PLACEMENT, GRADING AND OTHER WORK. ALSO SEE CIVIL, STRUCTURAL, AND LANDSCAPE DRAWINGS. SEE THE GEOTECHNICAL REPORT FOR SOILS INFORMATION AVAILABLE TO THE BIDDER.

FLOOR TYPE 'A'



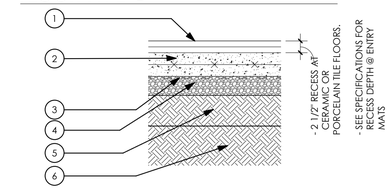
ASSEMBLY

1. FINISH FLOORING AS SCHEDULED (NOT SHOWN)
2. CONCRETE SLAB ON GRADE, SSD. SLOPE SLAB UNIFORMLY TO DRAIN AT ROOMS W/ FLOOR DRAINS & FLOOR SINKS, SEE MECH. MAINTAIN UNIFORM SLAB THICKNESS AT SLOPED SLABS.
3. VAPOR RETARDER
4. CAPILLARY BREAK
5. STRUCTURAL FILL WHERE AND IF REQUIRED, SEE CIVIL
6. COMPACTED SUBGRADE, SEE CIVIL

FIRE RATING

1. NON-RATED

FLOOR TYPE 'B '



ASSEMBLY

1. FINISH FLOORING, AS SCHEDULED
2. RECESSED CONCRETE SLAB ON GRADE, SSD. SLOPE SLAB UNIFORMLY TO DRAIN AT ROOMS W/ FLOOR DRAINS & FLOOR SINKS, SEE MECH. MAINTAIN UNIFORM SLAB THICKNESS.
3. VAPOR RETARDER
4. CAPILLARY BREAK
5. STRUCTURAL FILL WHERE AND IF REQUIRED, SEE CIVIL
6. COMPACTED SUBGRADE, SEE CIVIL

FIRE RATING

1. NON-RATED

NOTE :

IF AA-2 IS SELECTED, THIS WILL BE AT ALL FLOOR TILE LOCATIONS

5617 REGISTERED ARCHITECT
RANDAL J. COOK
STATE OF WASHINGTON

BID SET

Project Title
JEFFERSON TRANSIT AUTHORITY

63 FOUR CORNERS RD
PORT TOWNSEND, WASHINGTON 98368

Project Numbers
2013-006

FTA PROJECT NUMBER: WA-0180-02

Issue & Revision Dates

08 07 13	100% SD
11 04 13	100% DD
12 30 13	AGENCY SET
02 05 13	BID SET

Sheet Title
FLOOR TYPES

Drawn By MH
Checked By RC

Sheet Number
A21.00

Sheet Number 160 Of 203

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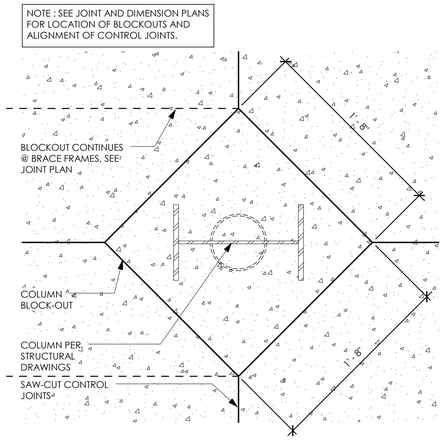
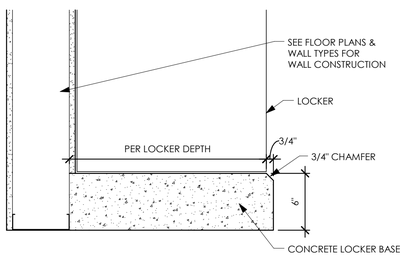
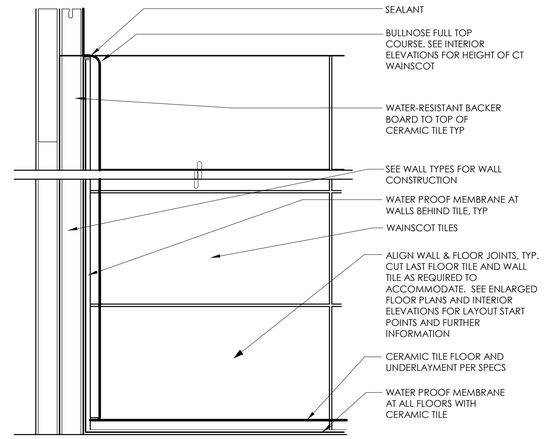


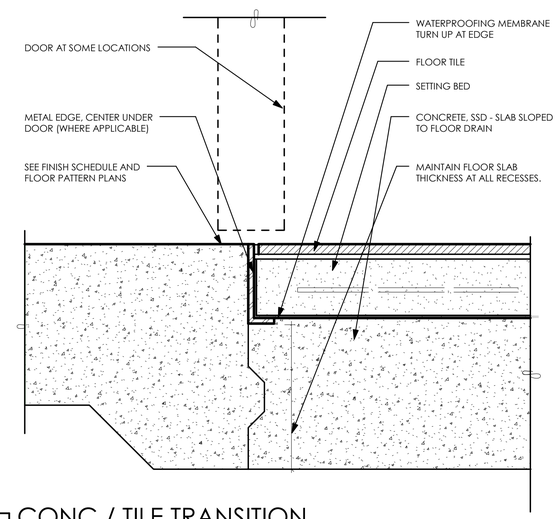
8 TYPICAL COLUMN BLOCK OUT
1 1/2" = 1'-0"



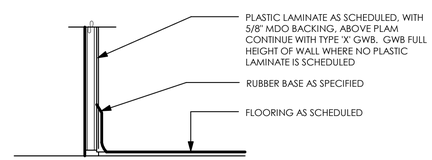
9 LOCKER BASE
1 1/2" = 1'-0"



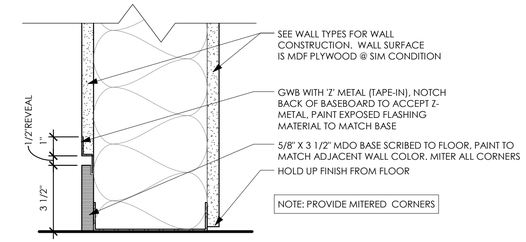
5 CT WALL AND FLOOR TRANSITION
6" = 1'-0"



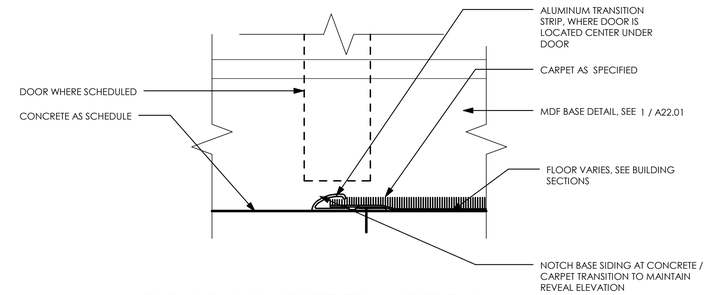
6 CONC / TILE TRANSITION
6" = 1'-0"



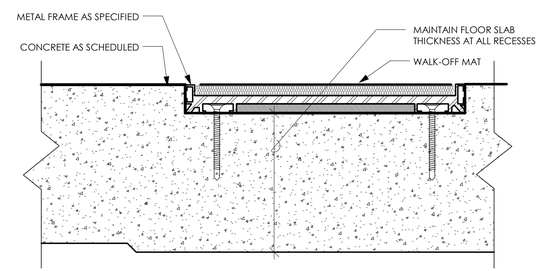
7 RUBBER BASE DETAIL
3" = 1'-0"



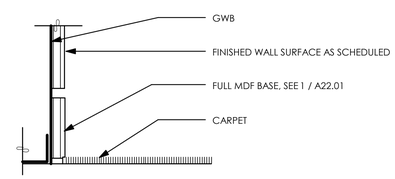
1 FLUSH BASE
3" = 1'-0"



2 CONC / CARPET TRANSITION
6" = 1'-0"



3 WALK-OFF CARPET TRANSITION
6" = 1'-0"



4 CPT FLOOR @ WALL REVEAL
3" = 1'-0"

5617 REGISTERED ARCHITECT
RANDAL J. COOK
STATE OF WASHINGTON

BID SET

Project Title
JEFFERSON TRANSIT AUTHORITY

63 FOUR CORNERS RD
PORT TOWNSEND, WASHINGTON 98368

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Sheet Title
FLOOR DETAILS

Drawn By: MR
Checked By: MH

Sheet Number
A22.01

Sheet Number 161 Of 203

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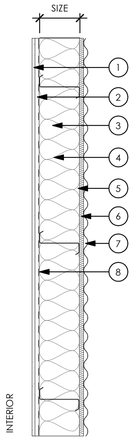
EXTERIOR WALL TYPE

_G/MS1



SIZE

A. ACTUAL GIRT THICKNESS PER PLAN

CONSTRUCTION

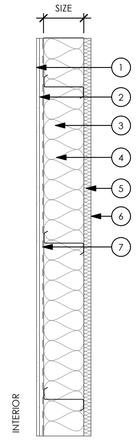
1. (1) LAYER 5/8" TYPE 'X' GWB ATTACHED TO HAT CHANNEL; FINISH AS SCHEDULED. IF 'G' MODIFIER IS USED ON WALL TYPES, AN ADDITIONAL LAYER OF GWB IS REQUIRED.METAL WALL PANELS, SEE EXTERIOR ELEVATIONS FOR LAYOUT AND PANEL TYPE.
2. 7/8" GALVANIZED HAT CHANNEL ORIENTED VERTICALLY @ 24" OC FASTENED TO WALL GIRTS
3. STEEL GIRTS PER METAL BUILDING MANUFACTURER.
4. MIN 8" OF UNFACED BATT INSULATION FULL DEPTH OF WALL (R-25 MIN)
5. 7/8" GALVANIZED HAT CHANNEL ORIENTED VERTICALLY @ 24" OC ATTACHED TO WALL GIRTS
6. CONTINUOUS 4" UNFACED BATT INSULATION OVER HAT CHANNELS COMPRESSED TO FILL METAL PANEL VOID (R-13 MIN)
7. HORIZONTAL METAL WALL PANEL FASTENED TO HAT CHANNELS, SEE EXTERIOR ELEVATIONS FOR LAYOUT
8. VAPOR RETARDER

NOTES

A. SEE NOTES ON SHEET A30.00 FOR ADDITIONAL REQUIREMENTS.

EXTERIOR WALL TYPE

_G/MS2



SIZE

A. ACTUAL GIRT THICKNESS PER PLAN

CONSTRUCTION

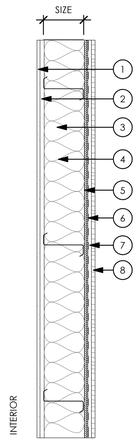
1. (1) LAYER 5/8" TYPE 'X' GWB FASTENED TO HAT CHANNELS; FINISH AS SCHEDULED. IF 'G' MODIFIER IS USED ON WALL TYPES, AN ADDITIONAL LAYER OF GWB IS REQUIRED.METAL WALL PANELS, SEE EXTERIOR ELEVATIONS FOR LAYOUT AND PANEL TYPE.
2. 7/8" GALVANIZED HAT CHANNEL ORIENTED VERTICALLY @ 24" OC FASTENED TO WALL GIRTS
3. STEEL GIRTS PER METAL BUILDING MANUFACTURER.
4. MIN 8" OF UNFACED BATT INSULATION FULL DEPTH OF WALL (R-25 MIN)
5. CONTINUOUS 4" UNFACED BATT INSULATION COMPRESSED TO FILL METAL PANEL VOID (R-13 MIN)
6. VERTICAL METAL WALL PANEL FASTENED TO WALL GIRTS, SEE EXTERIOR ELEVATIONS FOR LAYOUT
7. VAPOR RETARDER

NOTES

A. SEE NOTES ON SHEET A30.00 FOR ADDITIONAL REQUIREMENTS.

EXTERIOR WALL TYPE

_G/WS1



SIZE

A. ACTUAL GIRT THICKNESS PER PLAN

CONSTRUCTION

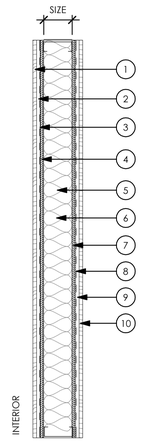
1. (1) LAYER 5/8" TYPE 'X' GWB FASTENED TO HAT CHANNELS; FINISH AS SCHEDULED. IF 'G' MODIFIER IS USED ON WALL TYPES, AN ADDITIONAL LAYER OF GWB IS REQUIRED.METAL WALL PANELS, SEE EXTERIOR ELEVATIONS FOR LAYOUT AND PANEL TYPE.
2. 7/8" GALVANIZED HAT CHANNEL ORIENTED VERTICALLY @ 24" OC FASTENED TO WALL GIRTS
3. STEEL GIRTS PER METAL BUILDING MANUFACTURER.
4. MIN 8" OF UNFACED BATT INSULATION FULL DEPTH OF WALL (R-25 MIN)
5. 3/4" CDX PLYWOOD FASTENED TO WALL GIRTS, ADD ADDITIONAL BLOCKING AS REQUIRED
6. BUILDING WRAP
7. 3/4" x 3/4" PRESSURE TREATED FURRING STRIPS ORIENTED VERTICALLY @ 24" OC FASTENED TO PLYWOOD
8. WOOD SIDING (3/4" x 3 1/2" NET), BLIND NAILED USING STAINLESS STEEL MINIMUM 1 1/2" INTO FURRING AND PLYWOOD. FINISH AS SCHEDULED. SEE EXTERIOR ELEVATIONS FOR LAYOUT

NOTES

A. SEE NOTES ON SHEET A30.00 FOR ADDITIONAL REQUIREMENTS.

EXTERIOR WALL TYPE

_S/WS1



SIZE

A. ACTUAL STUD THICKNESS PER PLAN

CONSTRUCTION

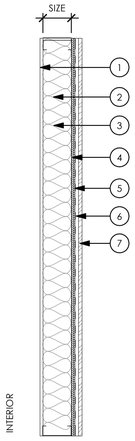
1. WOOD SIDING (3/4" x 3 1/2" NET), BLIND NAILED USING STAINLESS STEEL MINIMUM 1 1/2" INTO FURRING AND PLYWOOD. FINISH AS SCHEDULED. SEE EXTERIOR ELEVATIONS FOR LAYOUT
2. 3/4" x 3/4" PRESSURE TREATED FURRING STRIPS ORIENTED VERTICALLY @ 24" OC FASTENED TO PLYWOOD
3. BUILDING WRAP (EXCLUDE WHEN AT AN INTERIOR WALL)
4. 3/4" CDX PLYWOOD FASTENED TO METAL STUDS
5. BATT INSULATION FULL DEPTH OF WALL (R-25 MIN)
6. STEEL STUDS @ 16" OC SEE STRUCTURAL DRAWINGS FOR ADDITIONAL FRAMING AND BACKING/ BLOCKING REQUIREMENTS AND INFORMATION. ALSO PROVIDE BLOCKING / BACKING AS REQUIRED BY CODE, PER GENERAL NOTES ON SHEET A30.00 AND AS DETAILED.
7. 3/4" CDX PLYWOOD FASTENED TO WALL GIRTS
8. BUILDING WRAP
9. 3/4" x 3/4" PRESSURE TREATED FURRING STRIPS ORIENTED VERTICALLY @ 24" OC FASTENED TO PLYWOODWOOD SIDING (3/4" x 3 1/2" NET), BLIND NAILED USING STAINLESS STEEL MINIMUM 1 1/2" INTO FURRING AND PLYWOOD. FINISH AS SCHEDULED. SEE EXTERIOR ELEVATIONS FOR LAYOUT
10. WOOD SIDING (3/4" x 5 1/2" NET), BLIND NAILED MINIMUM 1 1/2" INTO FURRING AND PLYWOOD. FINISH AS SCHEDULED. SEE EXTERIOR ELEVATIONS FOR LAYOUT

NOTES

A. SEE NOTES ON SHEET A30.00 FOR ADDITIONAL REQUIREMENTS.

EXTERIOR WALL TYPE

_S/WS2



SIZE

A. ACTUAL STUD THICKNESS PER PLAN

CONSTRUCTION

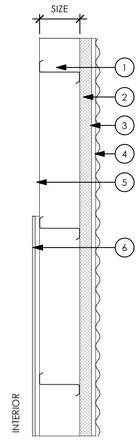
1. (1) LAYER 5/8" TYPE 'X' GWB; FINISH AS SCHEDULED. IF 'G' MODIFIER IS USED ON WALL TYPES, AN ADDITIONAL LAYER OF GWB IS REQUIRED.METAL WALL PANELS, SEE EXTERIOR ELEVATIONS FOR LAYOUT AND PANEL TYPE.
2. STEEL STUDS @ 16" OC SEE STRUCTURAL DRAWINGS FOR ADDITIONAL FRAMING AND BACKING/ BLOCKING REQUIREMENTS AND INFORMATION. ALSO PROVIDE BLOCKING / BACKING AS REQUIRED BY CODE, PER GENERAL NOTES ON SHEET A30.00 AND AS DETAILED.
3. BATT INSULATION FULL DEPTH OF WALL (R-25 MIN)
4. 3/4" CDX PLYWOOD FASTENED TO METAL STUDS
5. BUILDING WRAP
6. 3/4" x 3/4" PRESSURE TREATED FURRING STRIPS ORIENTED VERTICALLY @ 24" OC FASTENED TO PLYWOOD
7. WOOD SIDING (3/4" x 3 1/2" NET), BLIND NAILED (USING STAINLESS STEEL) MINIMUM 1 1/2" INTO FURRING AND PLYWOOD. FINISH AS SCHEDULED. SEE EXTERIOR ELEVATIONS FOR LAYOUT

NOTES

A. SEE NOTES ON SHEET A30.00 FOR ADDITIONAL REQUIREMENTS.

EXTERIOR WALL TYPE

_G/MS3



SIZE

A. ACTUAL GIRT THICKNESS PER PLAN

CONSTRUCTION

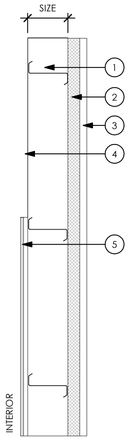
1. STEEL GIRTS PER METAL BUILDING MANUFACTURER.
2. 2.5" RIGID AIR/VAPOR BARRIER INSULATION PANEL (R-19 MIN)
3. 7/8" GALVANIZED HAT CHANNEL ORIENTED VERTICALLY @ 24" OC FASTENED TO WALL GIRTS
4. HORIZONTAL METAL WALL PANEL FASTENED TO HAT CHANNELS, SEE EXTERIOR ELEVATIONS FOR LAYOUT
5. 7/8" GALVANIZED HAT CHANNEL ORIENTED VERTICALLY @ 24" OC FASTENED TO WALL GIRTS UP TO 7'-2" AFF. IF 'G' MODIFIER IS USED ON WALL TYPE, CONTINUE HAT CHANNELS UP FULL HEIGHT OF WALL
6. (1) LAYER 5/8" MDO UP TO 7'-2" AFF; FINISH AS SCHEDULED. IF 'G' MODIFIER IS USED ON WALL TYPE, ADD (1) LAYER OF 5/8" TYPE 'X' GWB ABOVE MDO FULL HEIGHT OF WALL, FINISH AS SCHEDULED.

NOTES

A. SEE NOTES ON SHEET A30.00 FOR ADDITIONAL REQUIREMENTS.

EXTERIOR WALL TYPE

_G/MS4



SIZE

A. ACTUAL GIRT THICKNESS PER PLAN

CONSTRUCTION

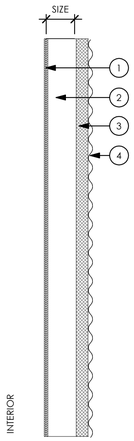
1. STEEL GIRTS PER METAL BUILDING MANUFACTURER.
2. 2.5" RIGID AIR/VAPOR BARRIER INSULATION PANEL (R-19 MIN)
3. VERTICAL METAL WALL PANEL FASTENED THROUGH TO WALL GIRTS, SEE EXTERIOR ELEVATIONS FOR LAYOUT
4. 7/8" GALVANIZED HAT CHANNEL ORIENTED VERTICALLY @ 24" OC FASTENED TO WALL GIRTS UP TO 7'-2" AFF. IF 'G' MODIFIER IS USED ON WALL TYPE, CONTINUE HAT CHANNELS UP FULL HEIGHT OF WALL
5. (1) LAYER 5/8" MDO UP TO 7'-2" AFF; FINISH AS SCHEDULED. IF 'G' MODIFIER IS USED ON WALL TYPE, ADD (1) LAYER OF 5/8" TYPE 'X' GWB ABOVE MDO FULL HEIGHT OF WALL, FINISH AS SCHEDULED.

NOTES

A. SEE NOTES ON SHEET A30.00 FOR ADDITIONAL REQUIREMENTS.

EXTERIOR WALL TYPE @ BLDG D

_S/MS1



SIZE

A. ACTUAL STUD THICKNESS PER PLAN

CONSTRUCTION

1. (1) LAYER 19/32" PLYWOOD ATTACHED TO STUDS; PAINTED PER FINISH SCHEDULED.
2. STEEL STUDS @ 16" O.C. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL FRAMING AND BACKING / BLOCKING REQUIREMENTS AND INFORMATION. ALSO PROVIDE BLOCKING / BACKING AS REQUIRED BY CODE, PER GENERAL NOTES ON SHEET A30.00 AND AS DETAILED
3. 2.5" RIGID AIR/VAPOR BARRIER INSULATION PANEL (R-19 MIN)
4. HORIZONTAL METAL WALL PANEL FASTENED TO METAL STUDS, SEE EXTERIOR ELEVATIONS FOR LAYOUT

NOTES

A. SEE NOTES ON SHEET A30.00 FOR ADDITIONAL REQUIREMENTS.

BUILDING, WALL SECTION AND WALL TYPE GENERAL NOTES

A. OTHER NOTES: SEE GENERAL NOTES ON G2 SERIES SHEETS FOR ADDITIONAL INFORMATION.

B. WALL TYPES: ALL WALL TYPES ARE NOT NECESSARILY USED. SEE FLOOR PLANS, BUILDING, WALL AND VERTICAL CIRCULATION SECTIONS FOR SCOPE. WALL TYPES SHOWN ON FLOOR PLANS GENERALLY APPLY TO THE FULL EXTENT OF THE WALL EVEN WHEN INTERSECTED BY ANOTHER WALL. SEE SECTIONS FOR ADDITIONAL REQUIREMENTS WHICH MAY MODIFY THE WALL TYPES ABOVE THE MAIN FLOOR LEVEL, IN WHICH CASE THE WALL SECTIONS SHALL GOVERN. ALL WALL TYPES SHALL BE ASSUMED TO RUN FLOOR TO UNDERSIDE OF STRUCTURE ABOVE, UNLESS SPECIFICALLY DETAILED OTHERWISE. SEE WALL TYPES, SECTIONS AND STRUCTURAL DRAWINGS FOR MORE DETAILED INFORMATION.

C. WALL CONSTRUCTION: WALL CONSTRUCTION SHALL BE PER THE WALL SECTION REFERENCED AT EACH LOCATION. PARTICULAR WALLS NOT REFERENCED SHALL BE ASSUMED AS THE SAME CONSTRUCTION MATERIALS (AS CLARIFIED AND CONFIGURED ON THE ELEVATIONS), AS THE MOST SIMILAR ADJACENT WALL SECTION AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY WITH THE ARCHITECT PER THE GENERAL NOTES. IF WALL OR BUILDING SECTIONS AND/OR DETAILS ILLUSTRATE THE SAME CONDITION AS WALL TYPES DESCRIBE, SECTIONS AND DETAILS SHALL GOVERN.

D. STRUCTURAL DRAWING COORDINATION: SEE STRUCTURAL DRAWINGS FOR ANCHORAGE AND REINFORCEMENT OF WALLS, BOTH INTERIOR & EXTERIOR, AND FOR CONCRETE REINFORCING.

E. MEMBER SPACING: SPACING OF STRUCTURAL AND NON-STRUCTURAL MEMBERS INDICATED ON DRAWINGS IS THE MAXIMUM ALLOWABLE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL LAYOUT PATTERN AND QUANTITIES REQUIRED, PARTICULARLY WITH RESPECT TO LAYOUT DEVIATIONS REQUIRED TO AVOID CONFLICT WITH MECHANICAL DUCTS, CHASES, LIGHT FIXTURES OR OTHER RECESSED EQUIPMENT FOR FIXTURES, ETC. PROVIDE ALL ADDITIONAL FRAMING, HEADERS, ETC., AS REQUIRED TO ACCOMMODATE.

F. CONCEALING STRUCTURE: STEEL COLUMNS AND OTHER STRUCTURAL STEEL ENGAGED BY PARTITIONS SHALL BE CONCEALED WITHIN WALLS AND FIRE PROTECTED WHERE REQUIRED. ADDITIONALLY, ALL FIRE RATED STEEL COLUMN BEAM SEATS SHALL BE COVERED WITH FIREPROOFING (INCLUDING BOLTS), WHERE A FIRE RATING IS REQUIRED.

G. STEEL STUD WALLS:

1. REFERENCED STANDARDS: CONSTRUCT ALL STEEL STUD WALLS IN ACCORDANCE WITH STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) DETAILS, EXCEPT AS DETAILED ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS WHICH SHALL GOVERN.
2. BACKING AND BLOCKING: PROVIDE BLOCKING AND BACKING AS REQUIRED BY CODE, AND AS DETAILED ON ARCHITECTURAL AND STRUCTURAL DRAWINGS, AND AS REQUIRED BY THE SPECIFICATIONS. PROVIDE BACKING PLATES FOR ALL RAILS, CASEWORK, COUNTERS, DOOR STOPS, VISUAL DISPLAY BOARDS, FIRE EXTINGUISHER CABINETS, ROOM ACCESSORIES, TOILET PARTITIONS, ELECTRICAL AND DATA OUTLETS, TOILET PARTITIONS, DRINKING FOUNTAINS, FIXTURES, AND ALL OTHERWALL MOUNTED EQUIPMENT, UNLESS NOTED OTHERWISE. SEE STRUCTURAL DRAWINGS, REQUIREMENTS ON THIS SHEET FOR TYPICAL BACKING PLATE DETAILS, THE REQUIREMENTS OF THE SPECIFICATIONS, AND PROVIDE AS REQUIRED BY WEIGHT TO BE SUPPORTED. VERIFY ALL MOUNTING HEIGHTS AND SPECIAL STRUCTURAL SUPPORT REQUIREMENTS WITH EQUIPMENT MANUFACTURERS BEFORE INSTALLING BACKING AND BLOCKING. ALSO PROVIDE CONTINUOUS BLOCKING/BACKING IN ALL WALLS, FULL WIDTH:

   AT ALL CEILING LINES
   AT LOCATIONS SHOWN ON BUILDING & WALL SECTIONS
   AT LOCATIONS REQUIRED BY STRUCTURAL DRAWINGS
   AS REQUIRED BY SPECIFICATIONS
   AS REQUIRED BY CODE
   AS REQUIRED FOR BACKING

3. BACKING COORDINATION PLANS: CONTRACTOR TO PROVIDE STEEL STUD WALL BACKING PLANS FOR ALL WALLS WITH WALL MOUNTED EQUIPMENT, PLUS ALL NIC, FOIC AND FIO ITEMS, TYP. SEE DIVISION 5 SECTION "COLD-FORMED METAL FRAMING" AND DIVISION 9 SECTION "NON-STRUCTURAL METAL FRAMING".

4. RECESSED ITEMS: WHERE EQUIPMENT OR CABINETS ARE SHOWN TO BE RECESSED IN OR MOUNTED ON FIRE RATED PARTITIONS, THE FINISH SURFACE SHALL BE MADE TO RUN CONTINUOUSLY BEHIND AND AROUND SUCH EQUIPMENT OR CABINETS BEFORE THEIR INSTALLATION TO MAINTAIN FIRE RATING; OR IN LIEU THEREOF, BACK PLASTER OR PROTECT BY OTHER APPROVED MEANS ALL PANELS, FIXTURES, AND OTHER PENETRATIONS IN PARTITIONS AND CEILINGS IN ORDER TO MAINTAIN REQUIRED FIRE SEPARATIONS AND RATED ASSEMBLIES.

5. SOUND INSULATION: IN WALLS WHERE SOUND INSULATION IS REQUIRED, IT SHALL BE CONTINUOUS FOR THE FULL LENGTH AND FULL HEIGHT OF THE WALL, UNLESS SPECIFICALLY NOTED OTHERWISE.

6. PARTIAL HEIGHT WALLS: STUD WALLS WHICH ARE NOT CONTINUOUS UP TO THE UNDERSIDE OF STRUCTURE ABOVE, SHALL HAVE THE TOP OF THE WALL BRACED, SEE STRUCTURAL DRAWINGS. WRAP ALL TRACKS/PLATES AND BRACING AS REQUIRED TO ACHIEVE FIRE RATING OF WALL, IF RATED.

H. SLABS AT WALL OPENINGS: AT EXTERIOR DOOR OPENINGS AND AT ALUMINUM CURTAIN WALL AND STOREFRONT SYSTEMS THAT SIT ATOP THE SLAB, BLOCK OUT TOP OF STEM WALL TO DEPTH OF BOTTOM OF THE INTERIOR SLAB (OR AS DETAILED ON STRUCTURAL DRAWINGS) AND CONTINUE INTERIOR FLOOR SLAB OUT OVER STEM WALL UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS OR DETAILS. INSTALL 24" LONG #4 REBAR, 1/2 OF LENGTH IN INTERIOR SLAB AND 1/2 OF LENGTH INTO EXTERIOR SLAB; USE (3) BARS PER 3'-0" WIDE DOOR, EQUALLY SPACED, UNLESS OTHERWISE NOTED. ALSO SEE STRUCTURAL DRAWINGS AND TYPICAL THRESHOLD DETAIL AT THESE LOCATIONS.

I. DIMENSION NOTES: SEE FLOOR PLAN GENERAL NOTES ON A2 SERIES SHEETS FOR INFORMATION ON DIMENSIONS.

J. WALL THICKNESS AND ALIGNMENT:

1. CONTRACTOR SHALL VERIFY AND COORDINATE WALLS AND OTHER FRAMING THAT REQUIRE A NON-TYPICAL WALL THICKNESS DUE TO STRUCTURAL, ELECTRICAL, MECHANICAL, EQUIPMENT, OR OTHER REQUIREMENTS.

2. ON A CONTINUOUS WALL SURFACE WHERE CONSTRUCTION INVOLVES MORE THAN ONE MATERIAL FINISH OR MATERIAL THICKNESS, ALIGN FACE OF FINISH, UNO.

K. GYPSUM WALL BOARD (GWB) AND FINISHES:

1. SEE DIVISION 9 SPECIFICATION SECTIONS FOR COMPLETE DESCRIPTION OF TYPES OF GWB TO BE USED.

2. SEE FINISH SCHEDULE AND FINISH SCHEDULE GENERAL NOTES ON A70 SERIES SHEETS FOR ADDITIONAL INFORMATION ON TYPES OF GWB.

3. FOR ALL WALL TYPES, PROVIDE INTERIOR FINISHES AND WAINSCOTS PER FINISH SCHEDULE AND INTERIOR ELEVATIONS.

4. AT ALL LOCATIONS NOT EXPOSED TO VIEW WHERE A FIRE AND/OR SOUND RATING IS REQUIRED OR WHERE INDICATED ON FINISH SCHEDULE, FIRE TAPE AND MUD ONLY TO MEET REQUIREMENTS OF FIRE AND/OR SOUND RATING, UNLESS NOTED OR SPECIFIED OTHERWISE. NOTE THAT FIRE TAPE AND MUD MAY BE SCHEDULED OR REQUIRED EVEN WHERE NOT REQUIRED BY CODE.

5. FLOOR AND CEILING FINISHES AND WALL BASES ARE NOT TYPICALLY SHOWN ON WALL SECTIONS OR WALL TYPES. SEE FLOOR PLANS, ROOM FINISH SCHEDULE AND REFLECTED CEILING PLANS.

L. FIRESTOPPING: CONTRACTOR IS RESPONSIBLE TO FIRE CAULK/ SEAL PENETRATIONS OF ALL FIRE RATED ASSEMBLIES, PENETRATIONS OF FIRE RATED FLOOR ASSEMBLIES, ALL FIRE RATED ASSEMBLIES, ALL SMOKE PARTITIONS, ALL PENETRATIONS OF FLOOR ASSEMBLIES ABOVE THE FIRST FLOOR, AND OTHER ASSEMBLIES REQUIRED BY CODE TO BE SEALED AND TO PROVIDE CODE APPROVED FIRESTOPPING AT ALL PENETRATIONS WHETHER OR NOT THE PENETRATION IS SPECIFICALLY DETAILED OR SPECIFIED - ALL TRADES INCLUDED. "PENETRATIONS" SHALL BE DEFINED PER THE CURRENT EDITION OF THE IBC OR OTHER GOVERNING CODE (S), AND AT A MINIMUM SHALL INCLUDE ALL CABLES, PIPES, CONDUITS, DUCTS, COLUMNS, BEAMS AND OTHER PENETRATING ITEMS. SEE DIVISION 7 SPECIFICATION SECTION "PENETRATION FIRESTOPPING" FOR FURTHER DEFINITION AND REQUIREMENTS. ALL OTHER PENETRATIONS OF BUILDING ASSEMBLIES SHALL BE SEALED FOR SOUND CONTROL PURPOSES BY GWB AND TAPE, SEALANT, OR OTHER APPROVED METHODS. ALL COSTS FOR FIRE-RATED AND NON-FIRE-RATED SEALING SHALL BE INCLUDED IN THE BID. ALSO SEE G3 SERIES CODE SHEETS.

M. SOUND CONTROL: AT WALLS ADJOINING POTENTIAL NOISY SPACES SUCH AS MECHANICAL ROOMS, ELEVATORS, ELEVATOR EQUIPMENT ROOMS, GATHERING ROOMS, RESTROOMS, ETC., AND WHERE AN 'S' MODIFIER IS INDICATED IN THE WALL TYPE, COMPLY WITH THE FOLLOWING (NOTE THAT MANY OF THESE REQUIREMENTS MAY BE REQUIRED BY OTHER PORTIONS OF THE DRAWINGS AND SPECIFICATIONS REGARDLESS OF THE USE OF AN 'S' MODIFIER OR NOT):

1. PLACE WALL GWB WITHIN 1/4" OF FLOOR SLAB, AND APPLY CONTINUOUS ACOUSTICAL SEALANT ALONG BASE TO SEAL ALL JOINTS AND CRACKS.

2. DO NOT PLACE ELECTRICAL OR OTHER OUTLETS OR OPENINGS PENETRATING THE WALL GWB BACK TO BACK WITHIN THE SAME STUD CAVITY.

3. APPLY SOUND SEALANT TO WALL TERMINATIONS ABOVE SUSPENDED CEILING AT FLOOR DECK OR AT ROOF DECK.

4. WHERE TOP OF WALL INTERSECTS METAL DECK, FILL FLUTES WITH BATT INSULATION.

5. FIRE TAPE AND MUD GWB ABOVE FINISHED CEILINGS TO FULL EXTENT OF WALL AND SEAL ALL PENETRATIONS.

N. EXCAVATION & FILL:

1. COORDINATE REQUIREMENTS WITH CIVIL DRAWINGS AND SPECIFICATIONS.

2. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR MATERIALS BELOW SLABS. COORDINATE CIVIL AND ARCHITECTURAL DETAILING WITH RESPECT TO PERIMETER FOUNDATION DRAINAGE SYSTEMS, RAINLEADER / DOWNSPOUT LOCATIONS AND TIGHTLINE CONNECTIONS.

3. REFER TO STRUCTURAL DRAWINGS AND DETAILS FOR CONCRETE REINFORCING AND OTHER STRUCTURAL REQUIREMENTS AND FOR RETAINING WALL REQUIREMENTS.

4. DETAILS ILLUSTRATE TYPICAL CONDITIONS. CONTRACTOR SHALL ADAPT TYPICAL DETAILS FOR VARIANT CONDITIONS. FOR VARIANT CONDITIONS TYPICAL DETAILS SHALL BE USED FOR PERFORMANCE CRITERIA.

5. COORDINATE ALL TOP OF SLAB ELEVATIONS WITH FINISHED GRADES. GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IF/WHEN DISCREPANCIES ARE IDENTIFIED PRIOR TO PROCEEDING.

O. ADDITIONAL FRAMING DETAILS: SEE STRUCTURAL DRAWINGS.

P. PROVIDE CONTINUOUS INSULATION AND SEALANT AT ALL BUILDING PENETRATIONS AND OPENINGS TO COMPLY WITH NREC REQUIREMENTS, SEE SPECIFICATIONS

Q. AIR BARRIER MATERIALS TO MEET ASTM E2178 PER NREC REQUIREMENTS.

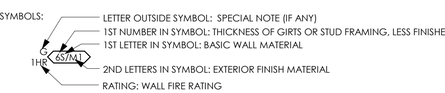
R. SEAL ALL CORNERS AND EDGES TO ENSURE FULL AIR BARRIER INTEGRITY. BUILDING TO COMPLY WITH WHOLE BUILDING PRESSURE TEST AS REQUIRED IN 2012 WSEC.

NOTES TO EXTERIOR WALL TYPES

A. SEE 'BUILDING AND WALL SECTION AND WALL TYPES GENERAL NOTES' FOR ADDITIONAL INFORMATION.

B. SEE STRUCTURAL DRAWINGS FOR NON-STRUCTURAL STUD GAUGE AND FRAMING REQUIREMENTS.

SYMBOLS:



EXTERIOR WALL TYPES AND LEGEND:

WALL THICKNESS: (THICKNESS OF BASIC WALL MATERIAL LESS FINISHES)

4, 6, ETC BASIC WALL THICKNESS, IN INCHES, ACTUAL SIZE FOR CONCRETE AND STEEL STUDS, NOMINAL SIZE FOR MASONRY

WALL MATERIAL:
S STEEL STUDS, 20 GAUGE MINIMUM, OR HEAVIER WHERE INDICATED ON STRUCTURAL DRAWINGS
G GIRT (PRE ENGINEERED METAL BUILDING)

WALL EXTERIOR FINISH MATERIAL:
MS METAL WALL PANELS
WS WOOD (CEDAR) STRIPPING

FIRE RATING: NO EXTERIOR WALLS ARE FIRE RATED ON THIS PROJECT

HEIGHT: WALL IS CONTINUOUS FROM FLOOR, FOUNDATION OR HEADER/BEAM AS APPLICABLE, TO UNDERSIDE OF FLOOR OR ROOF STRUCTURE, TYP, UNO. SEE FLOOR PLANS FOR WALLS THAT ARE NOT FULL HEIGHT.

WALL CONSTRUCTION MODIFIERS:
G TWO LAYERS OF GWB OR GYPSUM SHEATHING ON INTERIOR SIDE OF WALL
X NO INSULATION REQUIRED FOR THIS WALL

SEE INDIVIDUAL WALL TYPES FOR SPECIAL MODIFIERS NOT LISTED HERE

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BID SET

Project Title
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PORT TOWNSEND, WASHINGTON 98368

Project Numbers
2013-006

FTA PROJECT NUMBER: WA-0180-02

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Sheet Title
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Sheet Number
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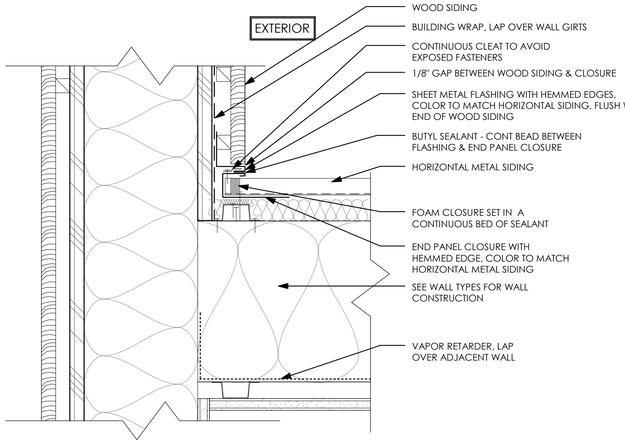
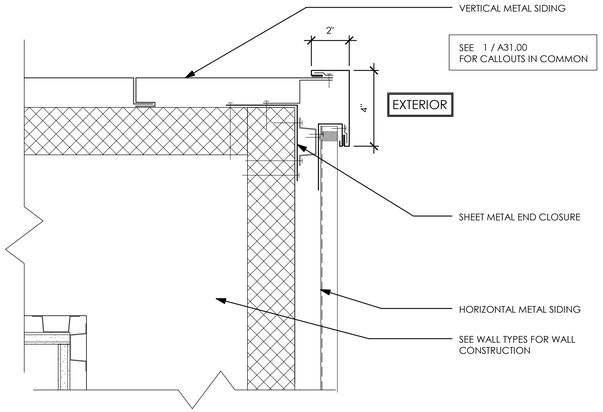


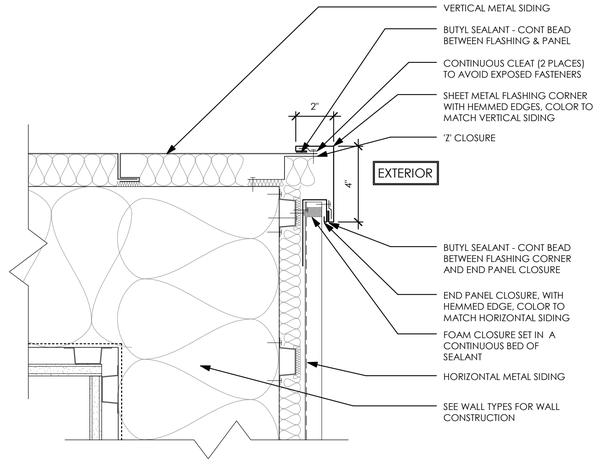
7 INSIDE CORNER DETAIL

3" = 1'-0"



4 OUTSIDE CORNER DETAIL

3" = 1'-0"



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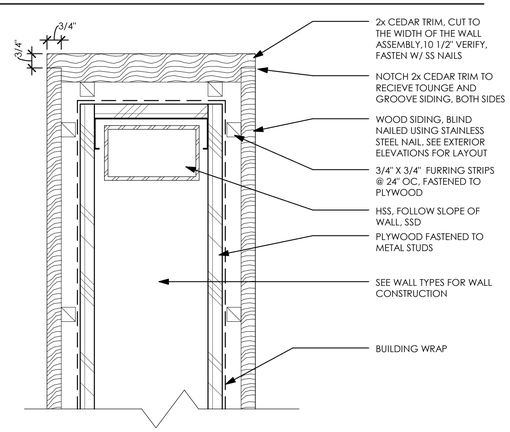
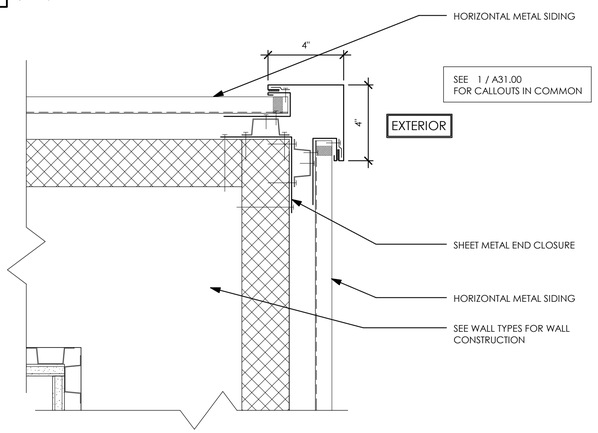
3" = 1'-0"



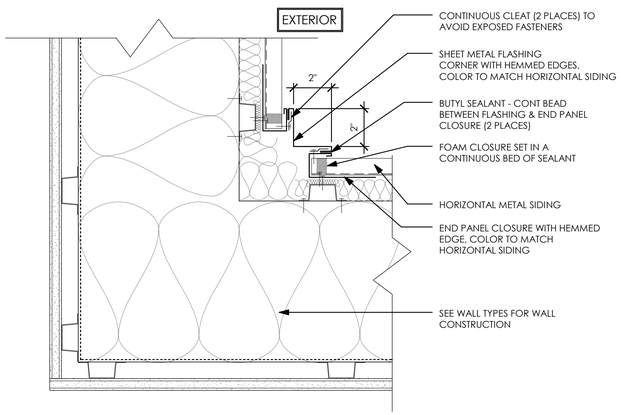
8 WOOD SIDING DETAIL - OUTSIDE CORNER

3" = 1'-0"



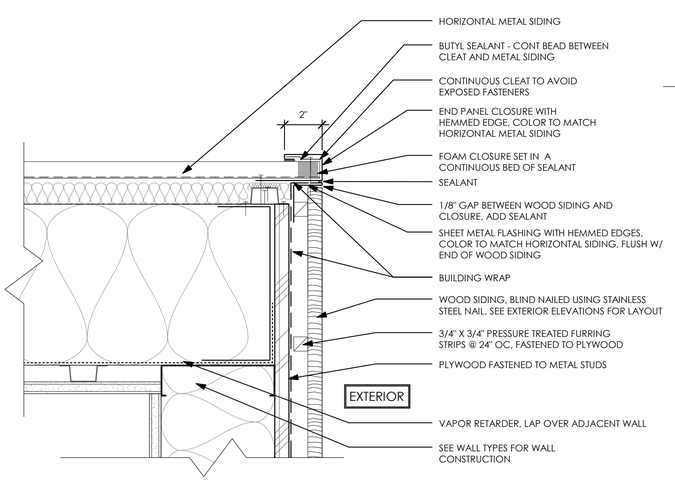
5 OUTSIDE CORNER DETAIL

3" = 1'-0"



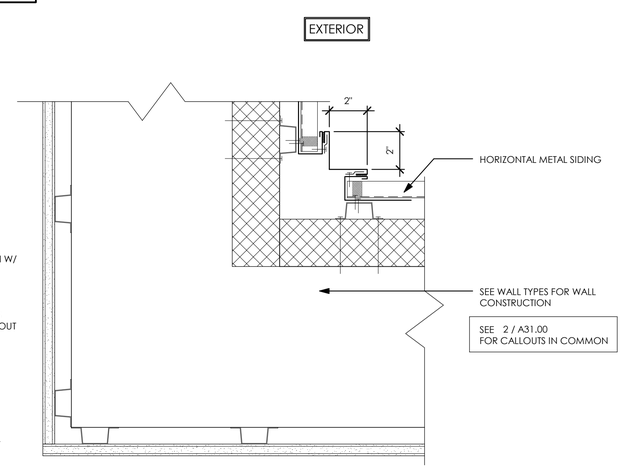
2 INSIDE CORNER DETAIL

3" = 1'-0"



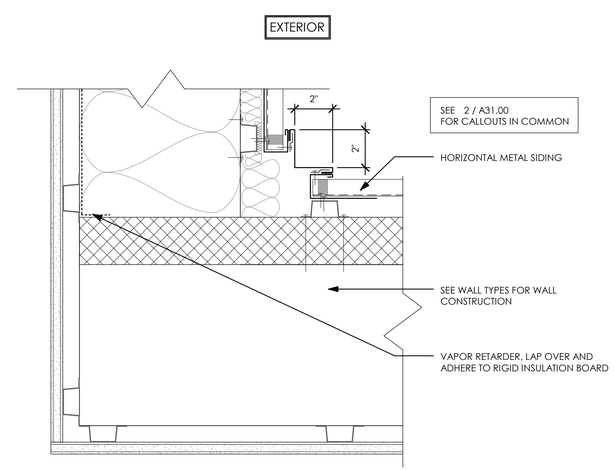
9 OUTSIDE CORNER DETAIL

3" = 1'-0"



6 INSIDE CORNER DETAIL

3" = 1'-0"



3 INSIDE CORNER DETAIL

3" = 1'-0"

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5617 REGISTERED ARCHITECT
RANDAL J. COOK
STATE OF WASHINGTON

BID SET

Project Title
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PORT TOWNSEND, WASHINGTON 98368

Project Numbers
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EXTERIOR WALL DETAILS

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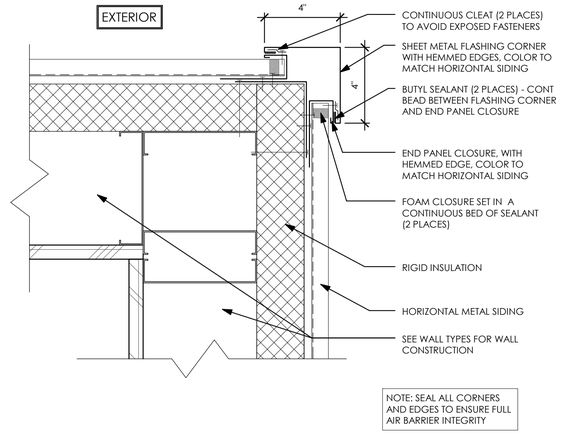
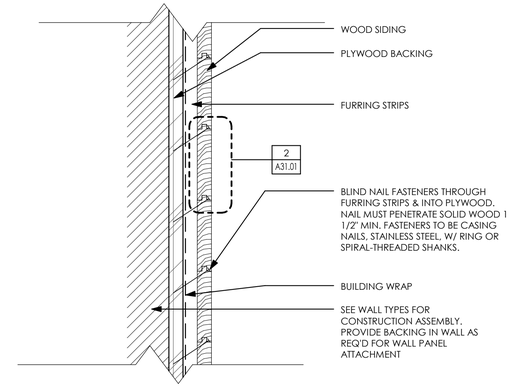


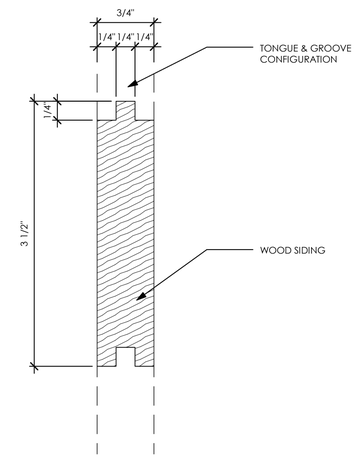
4 OUTSIDE CORNER DETAIL @ BLDG D

3" = 1'-0"



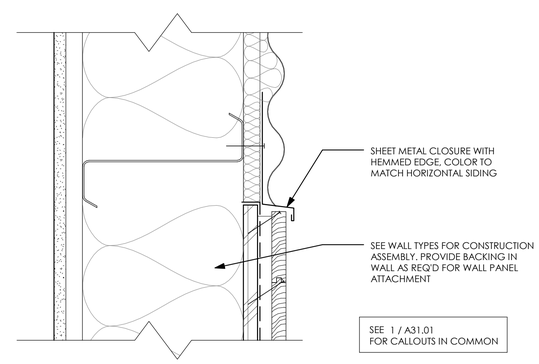
1 EXTERIOR WOOD SIDING DETAIL

3" = 1'-0"



2 WOOD SIDING PROFILE

12" = 1'-0"



3 WD SIDING TRANSITION TO METAL SIDING

3" = 1'-0"

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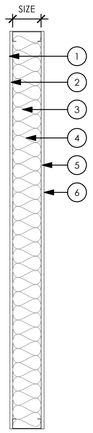
INTERIOR WALL TYPE

_S1



SIZE
ACTUAL WALL STUD THICKNESS PER PLAN

CONSTRUCTION
1. FINISH AS SCHEDULED (NOT SHOWN)
2. (1) LAYER 5/8" TYPE 'X' GWB. IF 'G' OR 'GG' MODIFIER IS USED ON WALL TYPES, ADDITIONAL LAYERS OF GWB ARE REQUIRED.
3. STEEL STUDS @ 16" OC SEE STRUCTURAL DRAWINGS FOR ADDITIONAL FRAMING AND BACKING / BLOCKING REQUIREMENTS AND INFORMATION. ALSO PROVIDE BLOCKING / BACKING AS REQUIRED BY CODE, PER GENERAL NOTES ON SHEET A30.00 AND AS DETAILED.
4. SOUND BATT INSULATION FOR FULL HEIGHT OF WALL UNLESS 'X' MODIFIER IS INDICATED ON WALL TYPE, IN WHICH CASE INSULATION IS NOT REQUIRED. USE 3-1/2" BATTS AT 4" WALLS AND 5-1/2" BATTS AT 6" OR WIDER WALLS.
5. (1) LAYER 5/8" TYPE 'X' GWB. IF 'M' MODIFIER IS USED REPLACE THE GWB WITH 5/8" MDO UP TO 7'-2" AFF, THEN AT 7'-2" AFF CONTINUE THE FULL HEIGHT OF THE WALL WITH 5/8" TYPE 'X' GWB AT ONE SIDE OF WALL, IF 'MM' MODIFIER IS USED REPLACE THE GWB WITH 5/8" MDO UP TO 7'-2" AFF, THEN AT 7'-2" AFF CONTINUE THE FULL HEIGHT OF THE WALL WITH 5/8" TYPE 'X' GWB AT BOTH SIDES OF WALL. SEE INTERIOR ELEVATIONS FLOOR PLANS & FINISH SCHEDULE FOR LOCATIONS.
6. FINISH AS SCHEDULED (NOT SHOWN)

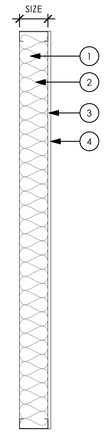
FIRE RATING
A. NON-RATED EXCEPT WHERE '1H' IS INDICATED ON WALL TYPES; ONE HOUR FIRE RATING PER GA FILE NO. WP 1072 & WP 1200.

SOUND
A. STC 40-44 W/O INSULATION PER GA FILE NO. WP 1200.
B. STC 45-49 W/ 3-1/2" SOUND INSULATION PER GA FILE NO. WP 1072.
C. STC 50-54 W/ 3-1/2" SOUND INSULATION PER GA FILE NO. WP 1052 W/ TWO LAYERS OF GWB AT ONE SIDE.
D. STC 55-59 W/ 3-1/2" SOUND INSULATION PER GA FILE NO. WP 1522 W/ TWO LAYERS OF GWB AT BOTH SIDES.

NOTES
A. SEE NOTES TO INTERIOR WALL TYPES ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
B. WHERE WALL THICKNESS EXCEED 12", (2) ROWS OF 4" OR 6" STUDS MAY BE USED TO ACHIEVE THICKNESS INDICATED.

INTERIOR WALL TYPE

_S2



SIZE
ACTUAL WALL STUD THICKNESS PER PLAN

CONSTRUCTION
1. STEEL STUDS @ 16" OC SEE STRUCTURAL DRAWINGS FOR ADDITIONAL FRAMING AND BACKING / BLOCKING REQUIREMENTS AND INFORMATION. ALSO PROVIDE BLOCKING / BACKING AS REQUIRED BY CODE, PER GENERAL NOTES ON SHEET A30.00 AND AS DETAILED.
2. SOUND BATT INSULATION FOR FULL HEIGHT OF WALL UNLESS 'X' MODIFIER IS INDICATED ON WALL TYPE, IN WHICH CASE INSULATION IS NOT REQUIRED. USE 3-1/2" BATTS AT 4" WALLS AND 5-1/2" BATTS AT 6" OR WIDER WALLS.
3. (1) LAYER 5/8" TYPE 'X' GWB. IF 'G' MODIFIER IS USED ON WALL TYPES, ADDITIONAL LAYER OF GWB IS REQUIRED.
4. FINISH AS SCHEDULED (NOT SHOWN)

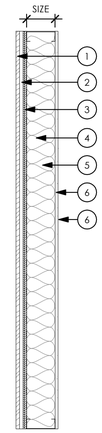
FIRE RATING
A. NON-RATED

SOUND
A. N/A

NOTES
A. SEE NOTES TO INTERIOR WALL TYPES ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

INTERIOR WALL TYPE

_S3



SIZE
ACTUAL WALL STUD THICKNESS PER PLAN

CONSTRUCTION
1. WOOD SIDING (3/4" x 3 1/2" NET), BLIND NAILED MINIMUM 1 1/2" INTO FURRING AND PLYWOOD. FINISH AS SCHEDULED. SEE INTERIOR ELEVATIONS FOR LAYOUT
2. 3/4" x 3/4" PRESSURE TREATED FURRING STRIPS ORIENTED VERTICALLY @ 24" OC FASTENED TO PLYWOOD
3. 3/4" CDX PLYWOOD FASTENED TO WALL GIRTS, ADD ADDITIONAL BLOCKING AS REQUIRED
4. STEEL STUDS @ 16" OC SEE STRUCTURAL DRAWINGS FOR ADDITIONAL FRAMING AND BACKING / BLOCKING REQUIREMENTS AND INFORMATION. ALSO PROVIDE BLOCKING / BACKING AS REQUIRED BY CODE, PER GENERAL NOTES ON SHEET A30.00 AND AS DETAILED.
5. SOUND BATT INSULATION FOR FULL HEIGHT OF WALL UNLESS 'X' MODIFIER IS INDICATED ON WALL TYPE, IN WHICH CASE INSULATION IS NOT REQUIRED. USE 3-1/2" BATTS AT 4" WALLS AND 5-1/2" BATTS AT 6" OR WIDER WALLS.
6. (1) LAYER 5/8" TYPE 'X' GWB. IF 'G' OR 'GG' MODIFIER IS USED ON WALL TYPES, ADDITIONAL LAYERS OF GWB ARE REQUIRED.
7. FINISH AS SCHEDULED (NOT SHOWN)

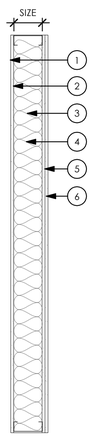
FIRE RATING
A. NON-RATED EXCEPT WHERE '1H' IS INDICATED ON WALL TYPES; ONE HOUR FIRE RATING PER GA FILE NO. WP 1072 & WP 1200.

SOUND
A. STC 40-44 W/O INSULATION PER GA FILE NO. WP 1200.
B. STC 45-49 W/ 3-1/2" SOUND INSULATION PER GA FILE NO. WP 1072.
C. STC 50-54 W/ 3-1/2" SOUND INSULATION PER GA FILE NO. WP 1052 W/ TWO LAYERS OF GWB AT ONE SIDE.
D. STC 55-59 W/ 3-1/2" SOUND INSULATION PER GA FILE NO. WP 1522 W/ TWO LAYERS OF GWB AT BOTH SIDES.

NOTES
A. SEE NOTES TO INTERIOR WALL TYPES ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
B. WHERE WALL THICKNESS EXCEED 12", (2) ROWS OF 4" OR 6" STUDS MAY BE USED TO ACHIEVE THICKNESS INDICATED.

INTERIOR WALL TYPE

_S4



SIZE
ACTUAL WALL STUD THICKNESS PER PLAN

CONSTRUCTION
1. FINISH AS SCHEDULED (NOT SHOWN)
2. (1) LAYER 5/8" TYPE 'X' GWB. (2) LAYERS OF 5/8" TYPE 'X' GWB AT ROOM NUMBER A109, A110 AND A115 TO 6" ABOVE THE HIGHEST ADJACENT CEILING.
3. STAGGERED STEEL STUDS 6" TOP AND BOTTOM TRACK W/ 4" STEEL STUDS STAGGERED @ 16" OC ON EACH SIDE. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL FRAMING AND BACKING / BLOCKING REQUIREMENTS AND INFORMATION. ALSO PROVIDE BLOCKING / BACKING AS REQUIRED BY CODE, PER GENERAL NOTES ON SHEET A30.00 AND AS DETAILED.
4. USE 6" SOUND BATT INSULATION FOR FULL HEIGHT OF WALL.
5. (1) LAYER 5/8" TYPE 'X' GWB.
6. (1) LAYER OF MDO TO 7'-2" AFF, SECOND LAYER OF 5/8" TYPE 'X' GWB FROM 7'-2" AFF TO FULL HEIGHT OF WALL.
6. FINISH AS SCHEDULED (NOT SHOWN)

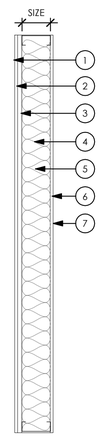
FIRE RATING
A. NON-RATED EXCEPT WHERE '1H' IS INDICATED ON WALL TYPES; ONE HOUR FIRE RATING PER GA FILE NO. WP 1072 & WP 1200.

SOUND
A. STC 40-44 W/O INSULATION PER GA FILE NO. WP 1200.
B. STC 45-49 W/ 3-1/2" SOUND INSULATION PER GA FILE NO. WP 1072.
C. STC 50-54 W/ 3-1/2" SOUND INSULATION PER GA FILE NO. WP 1052 W/ TWO LAYERS OF GWB AT ONE SIDE.
D. STC 55-59 W/ 3-1/2" SOUND INSULATION PER GA FILE NO. WP 1522 W/ TWO LAYERS OF GWB AT BOTH SIDES.

NOTES
A. SEE NOTES TO INTERIOR WALL TYPES ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
B. WHERE WALL THICKNESS EXCEED 12", (2) ROWS OF 4" OR 6" STUDS MAY BE USED TO ACHIEVE THICKNESS INDICATED.

INTERIOR WALL TYPE

_S5



SIZE
ACTUAL WALL STUD THICKNESS PER PLAN

CONSTRUCTION
1. FINISH AS SCHEDULED (NOT SHOWN)
2. (1) LAYER 5/8" TYPE 'X' GWB. IF 'G' OR 'GG' MODIFIER IS USED ON WALL TYPES, ADDITIONAL LAYERS OF GWB ARE REQUIRED.
3. 7/8" HAT CHANNEL AT 24" OC RUNNING HORIZONTAL
4. STEEL STUDS @ 16" OC SEE STRUCTURAL DRAWINGS FOR ADDITIONAL FRAMING AND BACKING / BLOCKING REQUIREMENTS AND INFORMATION. ALSO PROVIDE BLOCKING / BACKING AS REQUIRED BY CODE, PER GENERAL NOTES ON SHEET A30.00 AND AS DETAILED.
5. SOUND BATT INSULATION FOR FULL HEIGHT OF WALL UNLESS 'X' MODIFIER IS INDICATED ON WALL TYPE, IN WHICH CASE INSULATION IS NOT REQUIRED. USE 3-1/2" BATTS AT 4" WALLS AND 5-1/2" BATTS AT 6" OR WIDER WALLS.
6. (1) LAYER 5/8" TYPE 'X' GWB. IF 'G' OR 'GG' MODIFIER IS USED ON WALL TYPES, ADDITIONAL LAYERS OF GWB ARE REQUIRED.
7. FINISH AS SCHEDULED (NOT SHOWN)

FIRE RATING
A. NON-RATED EXCEPT WHERE '1H' IS INDICATED ON WALL TYPES; ONE HOUR FIRE RATING PER GA FILE NO. WP 1072 & WP 1200.

SOUND
A. STC 40-44 W/O INSULATION PER GA FILE NO. WP 1200.
B. STC 45-49 W/ 3-1/2" SOUND INSULATION PER GA FILE NO. WP 1072.
C. STC 50-54 W/ 3-1/2" SOUND INSULATION PER GA FILE NO. WP 1052 W/ TWO LAYERS OF GWB AT ONE SIDE.
D. STC 55-59 W/ 3-1/2" SOUND INSULATION PER GA FILE NO. WP 1522 W/ TWO LAYERS OF GWB AT BOTH SIDES.

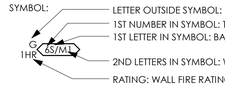
NOTES
A. SEE NOTES TO INTERIOR WALL TYPES ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
B. WHERE WALL THICKNESS EXCEED 12", (2) ROWS OF 4" OR 6" STUDS MAY BE USED TO ACHIEVE THICKNESS INDICATED.

NOTES TO INTERIOR WALL TYPES

A. SEE SHEET A30.00 FOR BUILDING AND WALL SECTION AND WALL TYPES GENERAL NOTES.

B. SEE STRUCTURAL DRAWINGS FOR NON-STRUCTURAL STUD GAUGE AND FRAMING REQUIREMENTS.

SYMBOL:



FOR INTERIOR WALL TYPES AND LEGEND:

WALL THICKNESS: (THICKNESS OF BASIC WALL MATERIAL, LESS FINISHES)

2, 4, 6, ETC. BASIC WALL THICKNESS. SEE WALL TYPES FOR ACTUAL THICKNESS, AIR SPACES, ETC.

WALL MATERIAL: (TYPE OF MATERIAL OF BASIC WALL MEMBER(S))

CH C-H STEEL STUDS, 20 GAUGE MINIMUM, OR HEAVIER WHERE INDICATED ON STRUCTURAL DRAWINGS.
S STEEL STUDS, 20 GAUGE MINIMUM, OR HEAVIER WHERE INDICATED ON STRUCTURAL DRAWINGS.

FIRE RATING:

N NON-RATED
1H ONE HOUR FIRE RATED

HEIGHT: WALLS ARE TYPICALLY CONTINUOUS FROM FLOOR, FOUNDATION OR HEADER/ BEAM AS APPLICABLE, TO BOTTOM OF DECK OR STRUCTURE EXCEPT AS NOTED OR IDENTIFIED OTHERWISE. SEE FLOOR PLANS, FLOOR PLANS LEGEND, SECTIONS, INTERIOR ELEVATIONS AND DETAILS FOR INFORMATION ON WALLS WHICH TERMINATE 6" ABOVE HIGHEST ADJACENT CEILING.

SPECIAL NOTES:

S SOUND WALL - SEE NOTE M ON SHEET A30.00 FOR REQUIREMENTS.
X NO SOUND INSULATION REQUIRED FOR THIS WALL.

WALL CONSTRUCTION MODIFIERS:

P PLYWOOD SHEATHING ON WALL. SEE STRUCTURAL PLANS FOR LOCATIONS AND WALL TYPES FOR SPECIAL REQUIREMENTS. UNO
G TWO LAYERS OF 5/8" TYPE 'X' GWB ON WALL TYPE SYMBOL SIDE OF WALL, UNO
GG TWO LAYERS OF 5/8" TYPE 'X' GWB ON BOTH SIDES OF WALL, UNO

SEE INDIVIDUAL WALL TYPES FOR SPECIAL MODIFIERS NOT LISTED HERE.

5617
REGISTERED ARCHITECT
RANDAL J. COOK
STATE OF WASHINGTON

BID SET

Project Title
JEFFERSON TRANSIT AUTHORITY

63 FOUR CORNERS RD
PORT TOWNSEND, WASHINGTON 98368

Project Numbers
2013-006

FTA PROJECT NUMBER: WA-0180-02

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Sheet Title
INTERIOR WALL TYPES

Drawn By MH
Checked By RC

Sheet Number
A32.00

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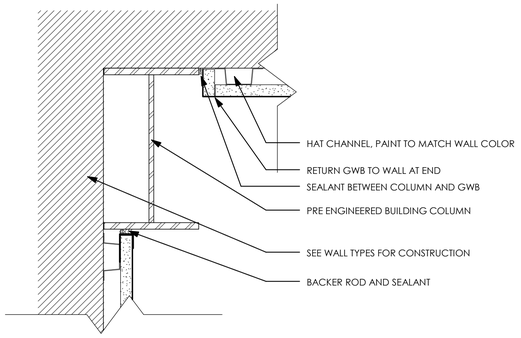
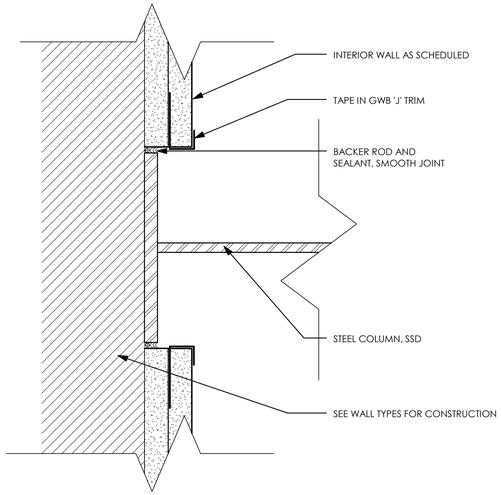
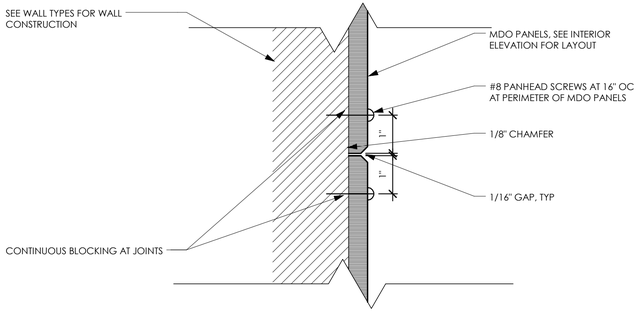


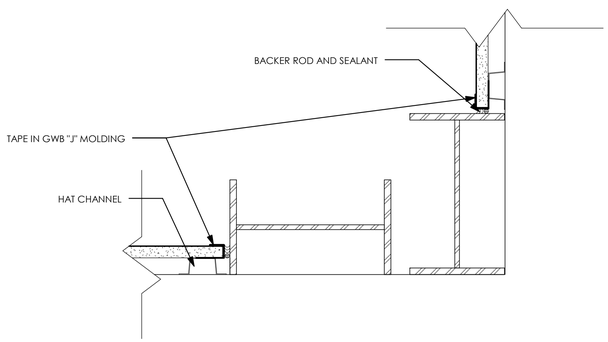
7 COLUMN - WALL CORNER
3" = 1'-0"



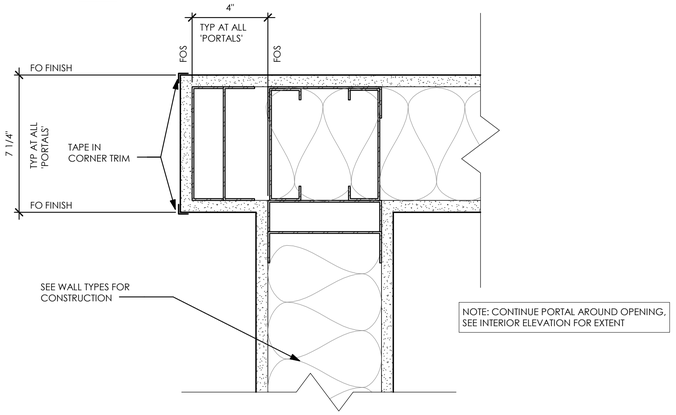
4 COLUMN TO GWB INTERSECTION
6" = 1'-0"



1 TYP VERT & HORZ JOINT AT MDO
6" = 1'-0"

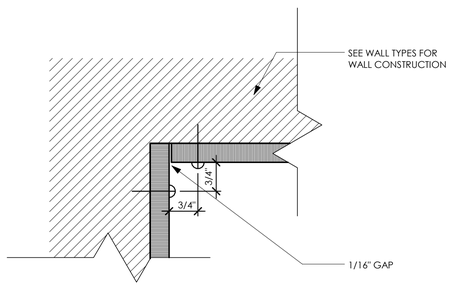


8 COLUMNS @ WALL CORNER
3" = 1'-0"

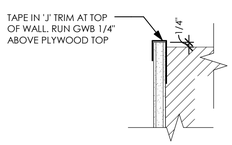


5 WALL AT PORTAL
3" = 1'-0"

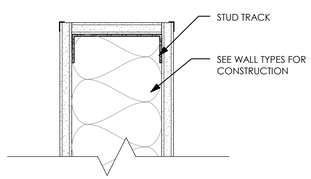
FOR CALL-OUTS IN
COMMON SEE 1 / A33.00



2 TYP INSIDE CORNER AT MDO
6" = 1'-0"

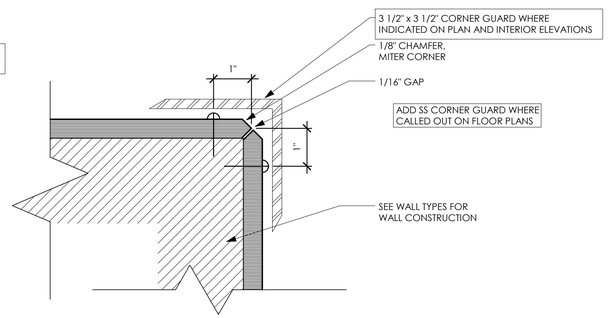


10 WALL TOP DETAIL
3" = 1'-0"

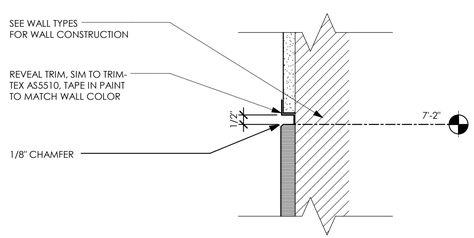


9 WALL CAP DETAIL
3" = 1'-0"

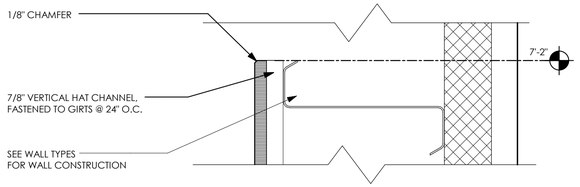
FOR CALL-OUTS IN
COMMON SEE 1 / A33.00



3 TYP OUTSIDE CORNER AT MDO
6" = 1'-0"



6 GWB TO MDO TRANSITION
3" = 1'-0"



11 MDO TRANSITION @ GIRT
3" = 1'-0"

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TCF Architecture, PLLC

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RANDAL J. COOK
STATE OF WASHINGTON

BID SET

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Project Numbers
2013-006

FTA PROJECT NUMBER: WA-0180-02

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Sheet Title
INTERIOR WALL DETAILS

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Sheet Number
A33.00

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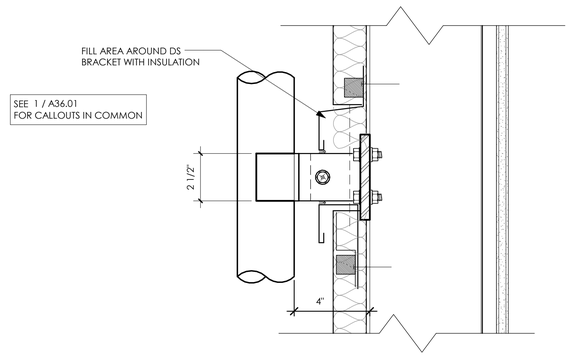
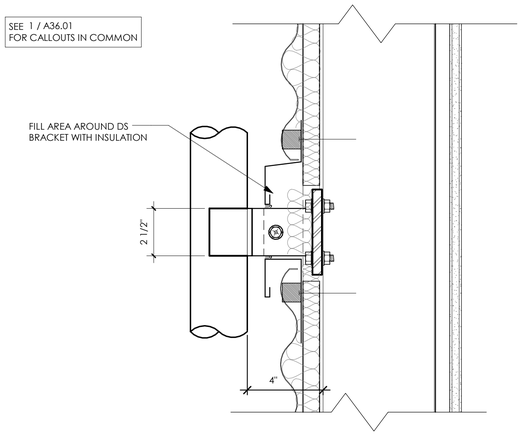
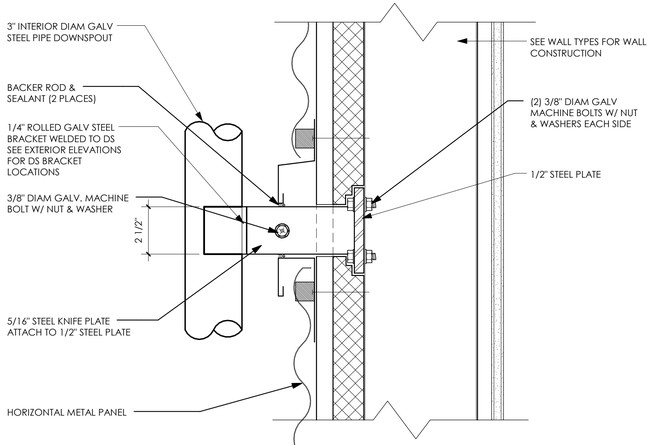
NOTE: COORDINATE BRACKET LOCATIONS W/ EXTERIOR ELEVATIONS
GRIND SMOOTH ALL DS AND BRACKET WELDS AFTER FABRICATION
HOT DIP GALVANIZE BOTH DS AND BRACKET ASSEMBLIES AFTER FABRICATION



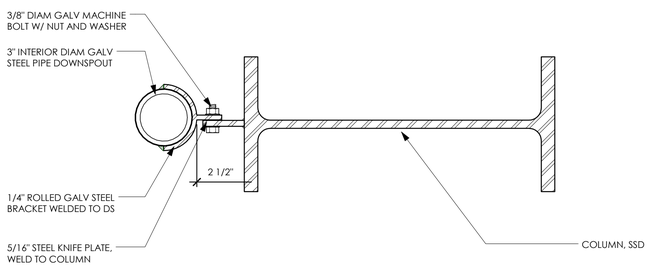
7 DOWNSPOUT DETAIL @ VERTICAL METAL SIDING
3" = 1'-0"



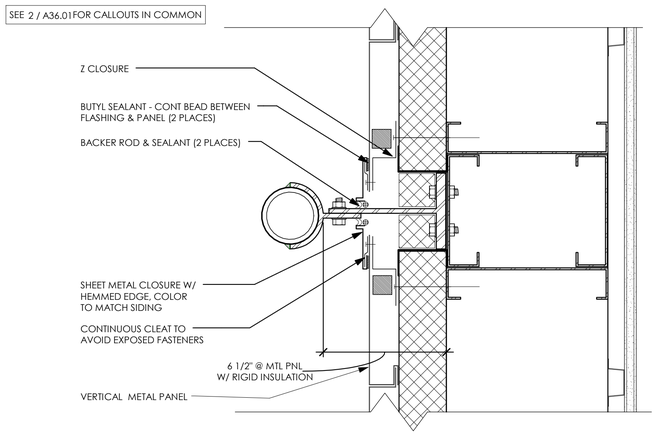
4 DOWNSPOUT DETAIL @ HORIZONTAL METAL SIDING
3" = 1'-0"



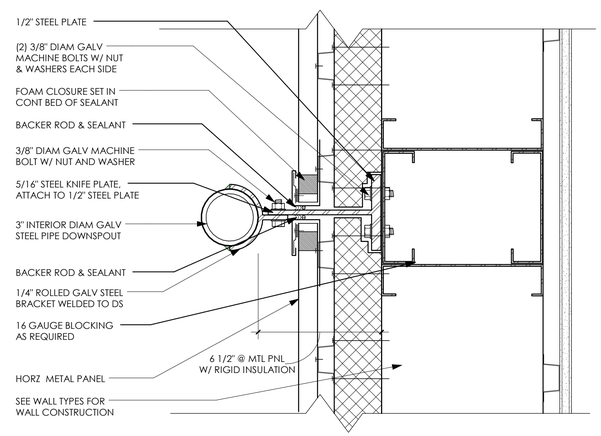
1 DOWNSPOUT DETAIL @ HORIZONTAL METAL SIDING
3" = 1'-0"



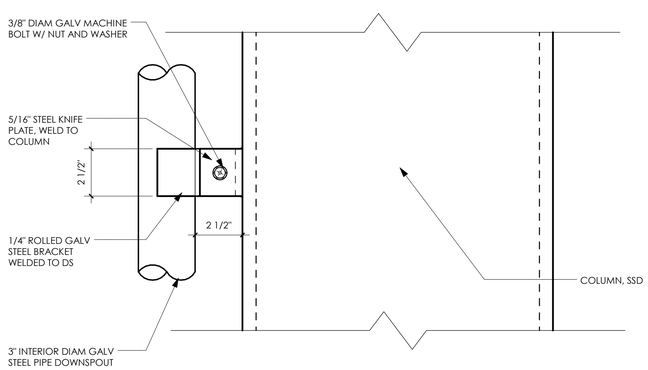
8 DS PLAN @ EXTERIOR COLUMN
3" = 1'-0"



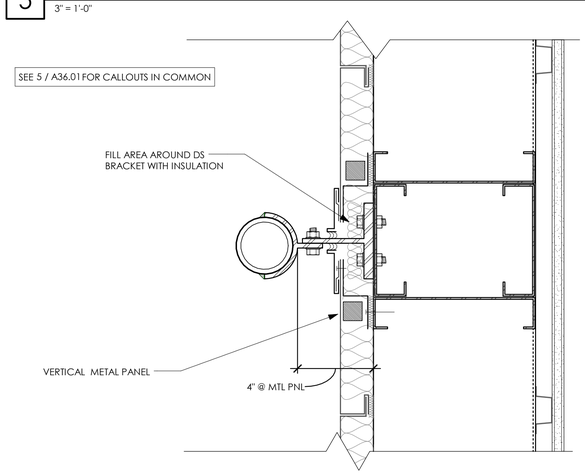
5 DOWNSPOUT PLAN @ VERTICAL METAL SIDING
3" = 1'-0"



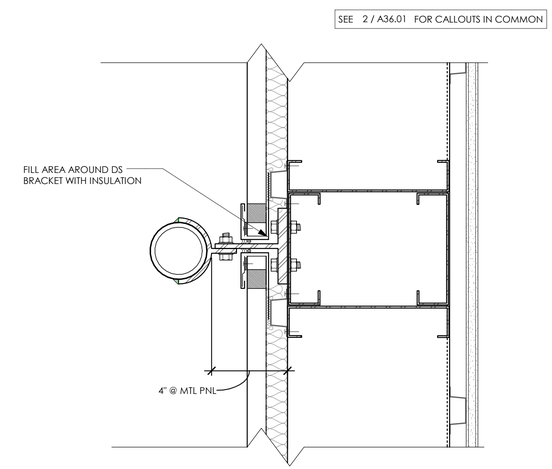
2 DOWNSPOUT PLAN @ HORIZONTAL METAL SIDING
3" = 1'-0"



9 DS ELEVATION @ EXTERIOR COLUMN
3" = 1'-0"



6 DOWNSPOUT PLAN @ VERTICAL METAL SIDING
3" = 1'-0"



3 DOWNSPOUT PLAN @ HORIZONTAL METAL SIDING
3" = 1'-0"

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Sheet Title
MISC. EXTERIOR DETAILS

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Checked By MH

Sheet Number
A36.01

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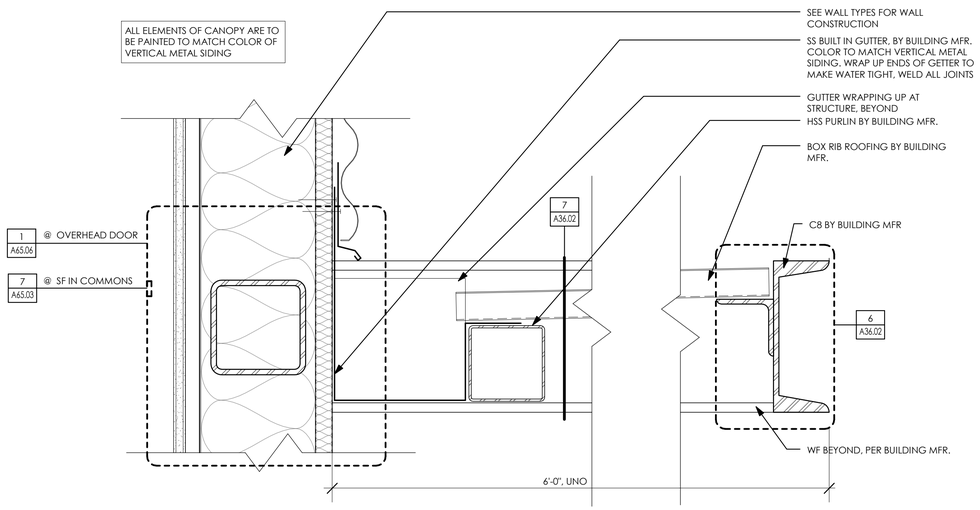
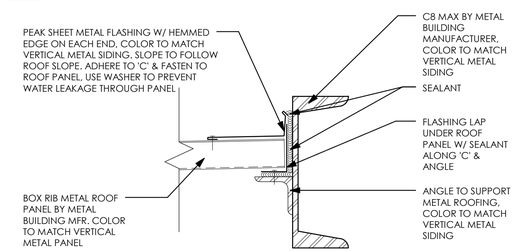


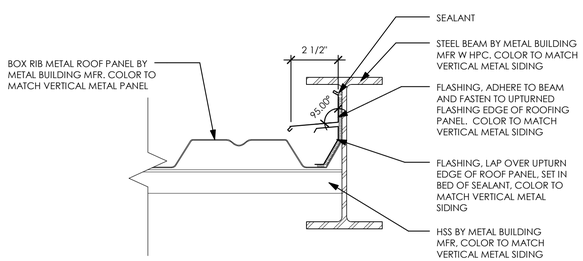
5 CANOPY DETAIL

3" = 1'-0"



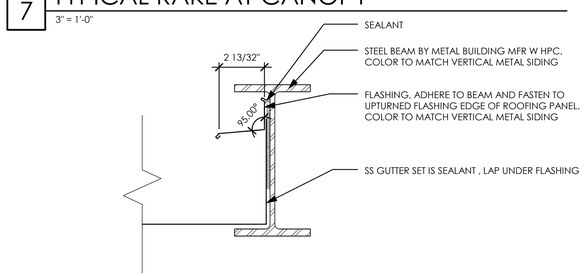
6 CANOPY DETAIL

3" = 1'-0"



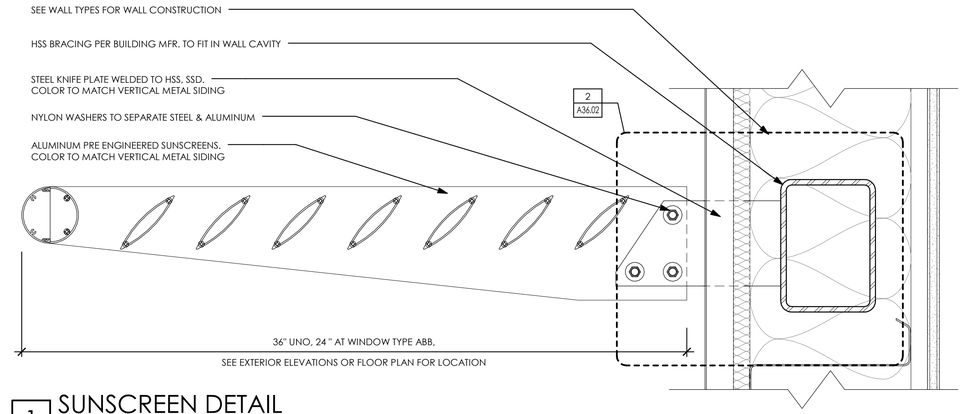
7 TYPICAL RAKE AT CANOPY

3" = 1'-0"



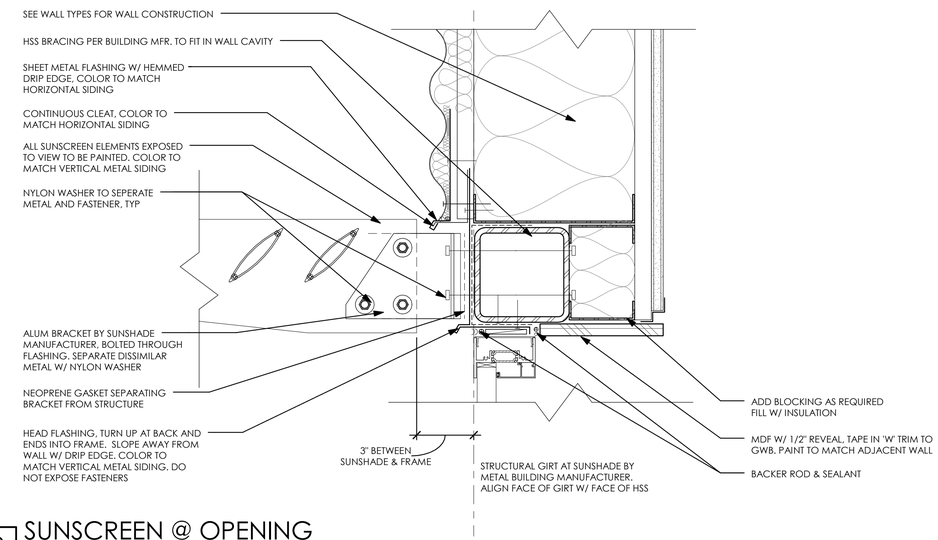
8 TYPICAL RAKE AT CANOPY, GUTTER

3" = 1'-0"



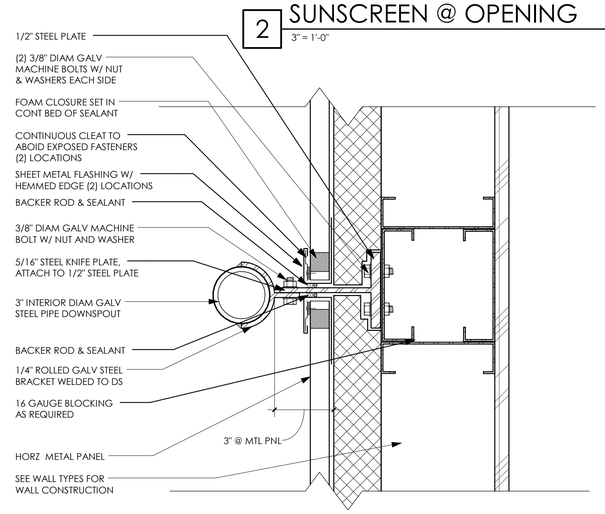
1 SUNSCREEN DETAIL

3" = 1'-0"



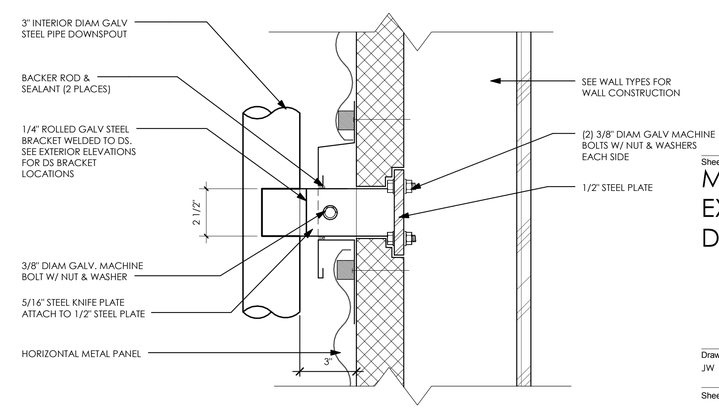
2 SUNSCREEN @ OPENING

3" = 1'-0"



4 DOWNSPOUT PLAN @ BLDG D

3" = 1'-0"



3 DOWNSPOUT DETAIL @ BLDG D

3" = 1'-0"

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RANDAL J. COOK
STATE OF WASHINGTON

BID SET

Project Title
JEFFERSON TRANSIT AUTHORITY

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FTA PROJECT NUMBER: WA-0180-02

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Sheet Title
MISC. EXTERIOR DETAILS

Drawn By JW
Checked By MH

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A36.02

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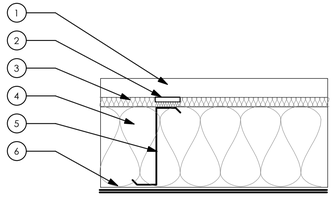
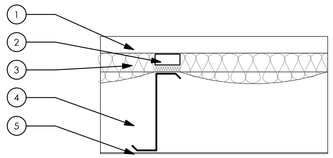
ROOF TYPE 'A' @ BLDG A



ASSEMBLY

1. STANDING SEAM METAL ROOF PANEL SYSTEM BY METAL BUILDING MFR
2. 1" THERMAL BLOCKS (R-3.5 MIN) ON TOP OF ROOF PURLINS & INSULATION.
3. 3.5" BATT INSULATION COMPRESSED, LAP OVER ROOF PURLINS (R-11 MIN)
4. FILL ROOF PURLIN CAVITY WITH BATT INSULATION (R-38 MIN)
5. ROOF PURLINS BY METAL BUILDING MFR
6. CONTINUOUS MEMBRANE BANDED LINER SYSTEM, AT ENDS WRAP UP LINER TO CREATE A CLEAN FINISH. TO MEET ALL ENERGY CODE REQUIREMENTS AND ASTM E-84.

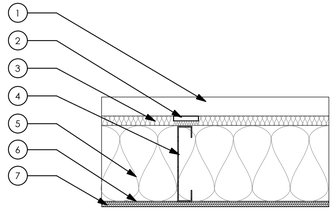
ROOF TYPE 'B ' @ BUILDING B



ASSEMBLY

1. STANDING SEAM METAL ROOF PANEL SYSTEM BY METAL BUILDING MFR
2. THERMAL BLOCKS (R-3.5 MIN) ON TOP OF ROOF PURLINS & INSULATION.
3. 2" BATT INSULATION W/ WMP-50 FACING (HEAVY DUTY VAPOR BARRIER, LAP OVER ROOF PURLINS(R-11 MIN)
4. PRE ENGINEERED METAL BUILDING ROOF PURLINS
5. BIRD NETTING

ROOF TYPE 'C' @ BLDG D



ASSEMBLY

1. STANDING SEAM METAL ROOF PANEL SYSTEM BY METAL BUILDING MFR
2. 1" THERMAL BLOCKS (R-3.5 MIN) ON TOP OF ROOF STUDS & INSULATION.
3. 3.5" BATT INSULATION COMPRESSED, LAP OVER ROOF PURLINS (R-11 MIN)
4. 8" METAL STUDS @ 16" O.C.
5. FILL ROOF CAVITY WITH BATT INSULATION (R-38 MIN)
6. CONTINUOUS MEMBRANE BANDED LINER SYSTEM, AT ENDS WRAP UP LINER TO CREATE A CLEAN FINISH. TO MEET ALL ENERGY CODE REQUIREMENTS AND ASTM E-84.
7. 19/32" PLYWOOD, PAINTED PER FINISH SCHEDULE

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Sheet Title
ROOF TYPES

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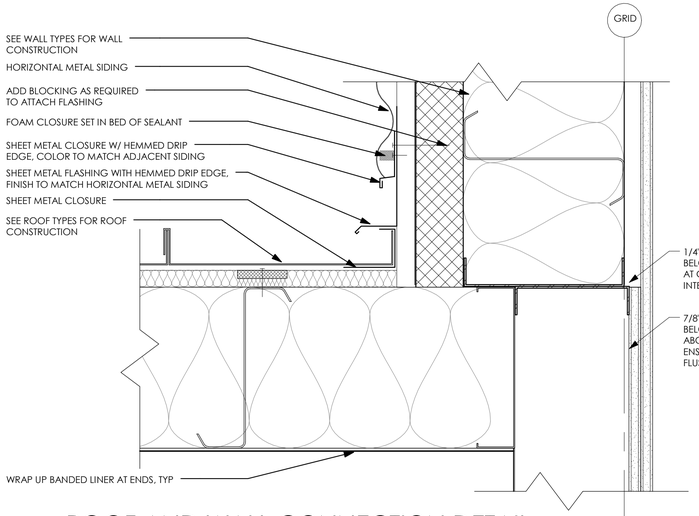
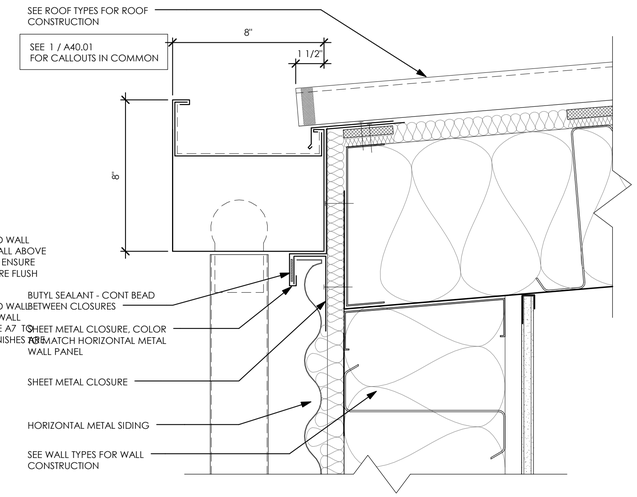
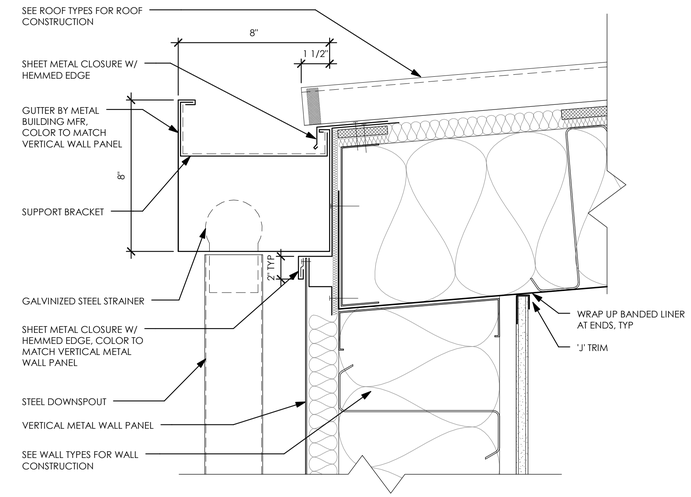


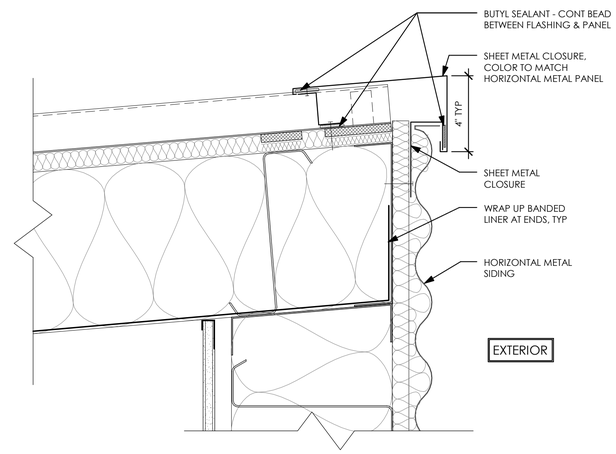
7 ROOF AND WALL CONNECTION DETAIL
3" = 1'-0"



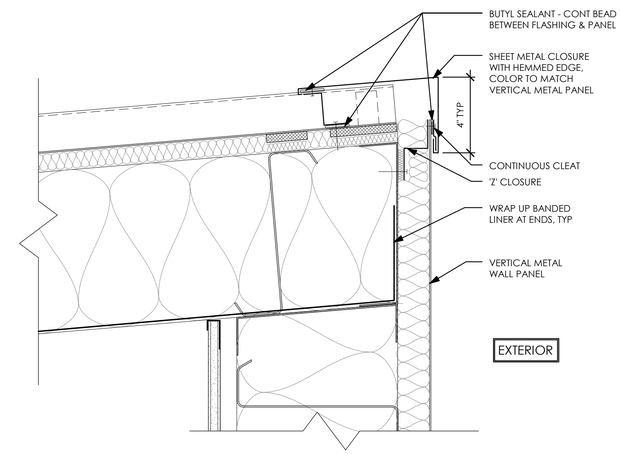
4 LOW ROOF DETAIL
3" = 1'-0"



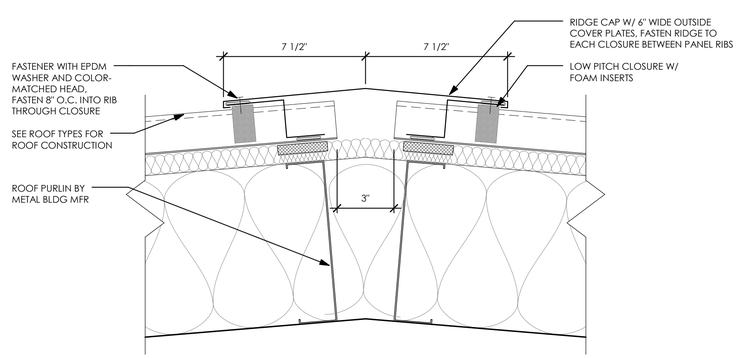
1 LOW ROOF DETAIL
3" = 1'-0"



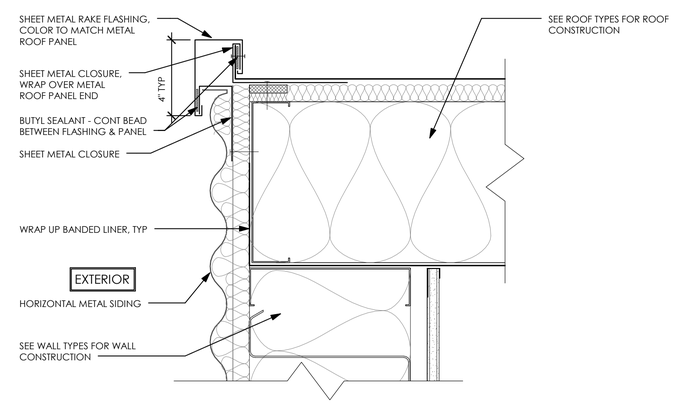
5 HIGH ROOF DETAIL
3" = 1'-0"



2 HIGH ROOF DETAIL
3" = 1'-0"



6 ROOF HIP DETAIL
3" = 1'-0"



3 RAKE EDGE DETAIL
3" = 1'-0"

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ROOF DETAILS

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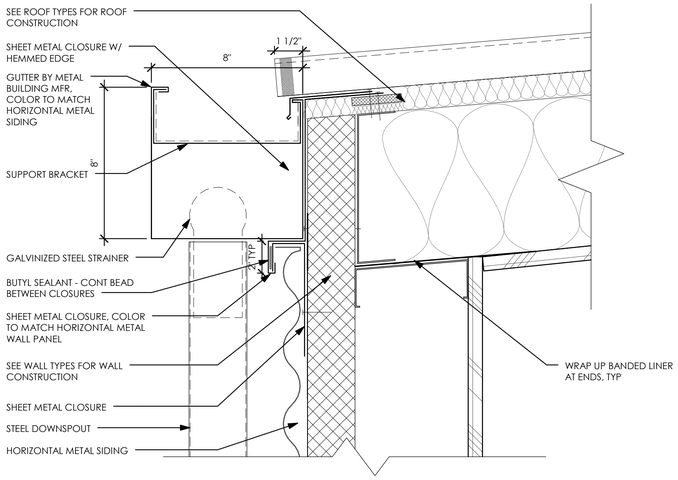
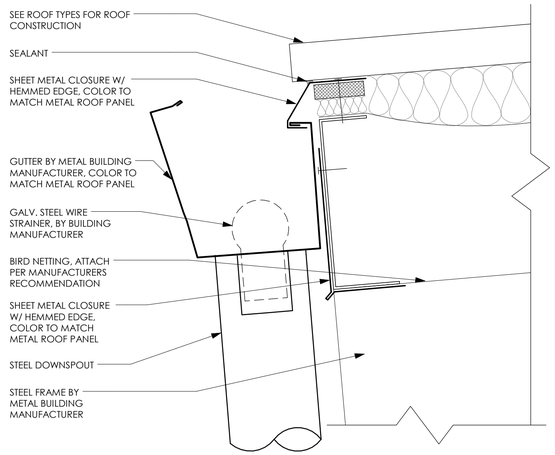


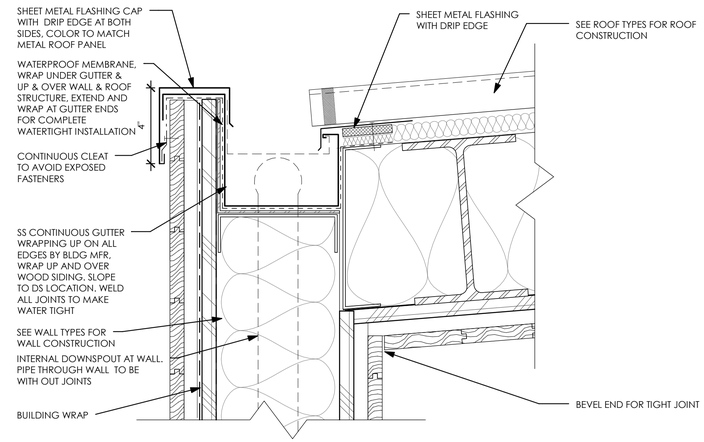
7 LOW ROOF DETAIL @ BLDG D

3" = 1'-0"



4 GUTTER DETAIL @ BUILDING B

3" = 1'-0"



1 LOW ROOF DETAIL AT ENTRY

3" = 1'-0"

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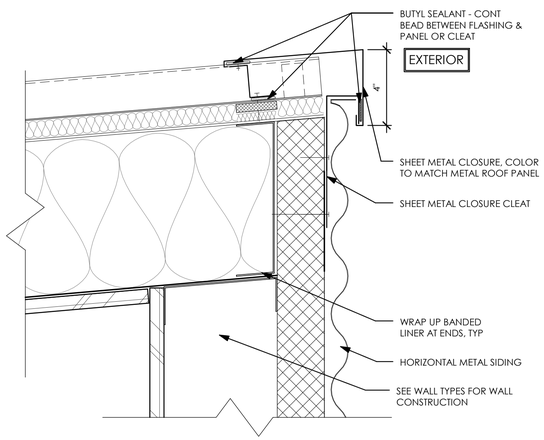
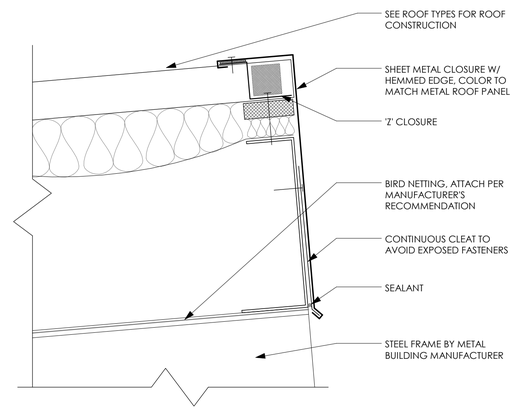


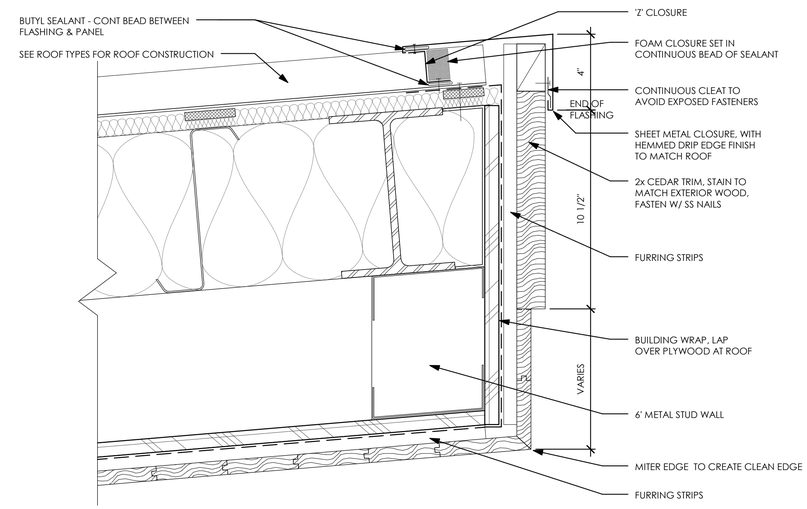
8 HIGH ROOF DETAIL LOW ROOF DETAIL @ BLDG D

3" = 1'-0"



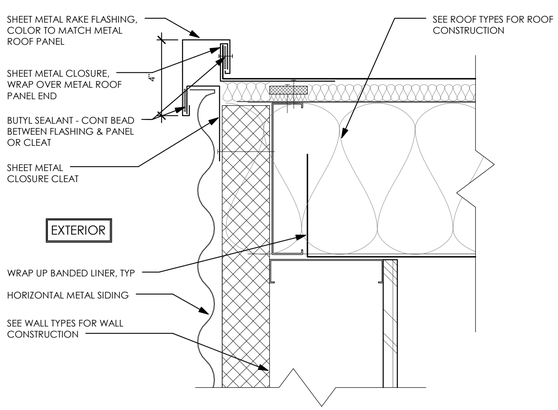
5 EAVE DETAIL @ BUILDING B

3" = 1'-0"



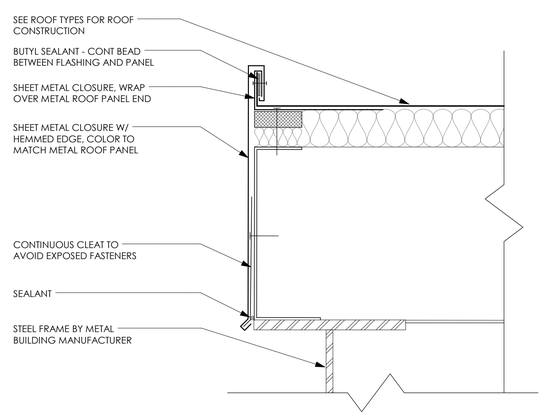
2 HIGH ROOF DETAIL AT ENTRY

3" = 1'-0"



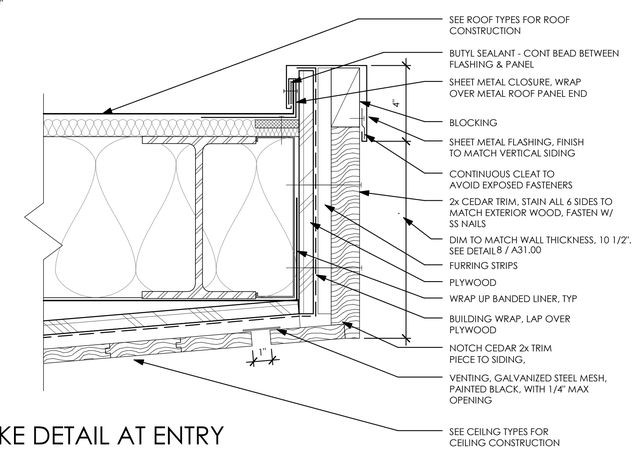
9 RAKE EDGE DETAILLOW ROOF DETAIL @ BLDG D

3" = 1'-0"



6 RAKE DETAIL @ BUILDING B

3" = 1'-0"



3 RAKE DETAIL AT ENTRY

3" = 1'-0"

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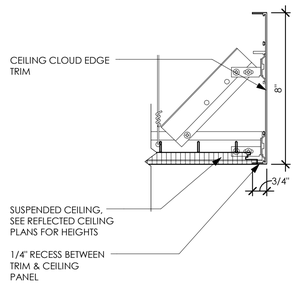
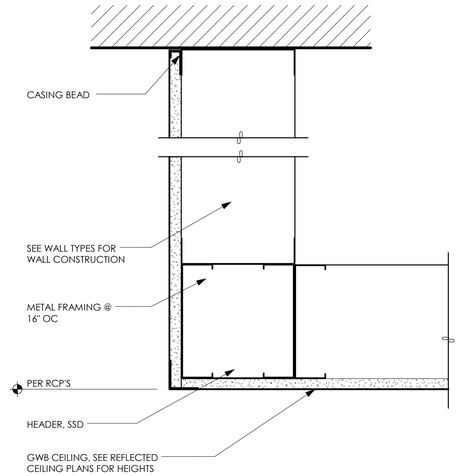
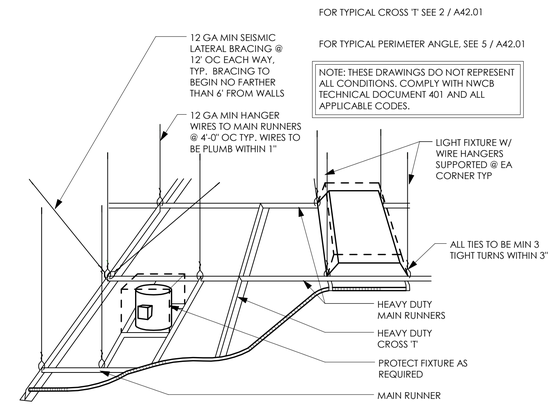


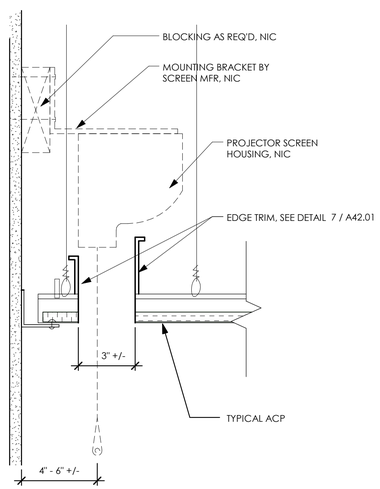
7 ACP CLOUD EDGE
3" = 1'-0"



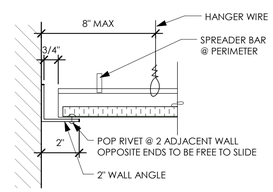
4 GWB SOFFIT TRANSITION
3" = 1'-0"



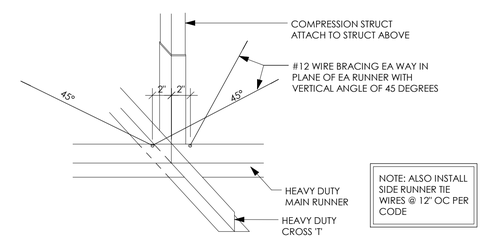
1 TYPICAL SUSPENDED ACP
1/2" = 1'-0"



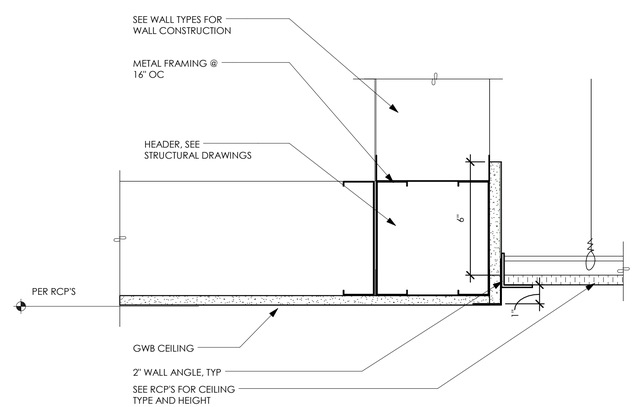
8 PROJECTION SCREEN
3" = 1'-0"



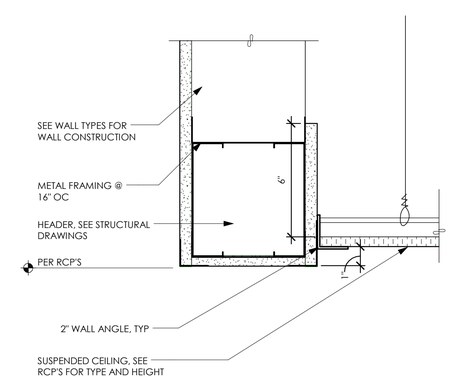
5 TYPICAL ACP WALL MOLDING
3" = 1'-0"



2 TYPICAL CROSS 'T' AT CEILING
1 1/2" = 1'-0"



6 GWB TO ACP TRANSITION
3" = 1'-0"



3 GWB BULKHEAD @ ACP
3" = 1'-0"

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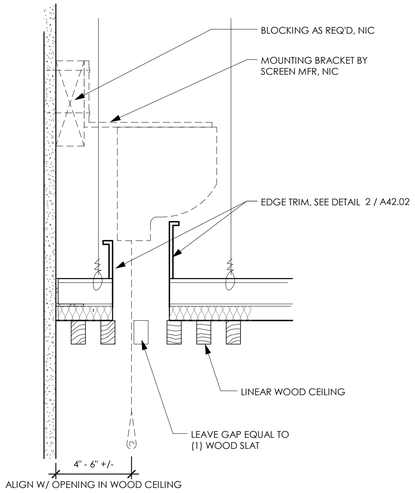
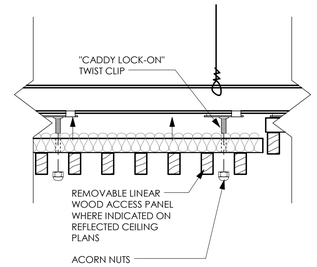
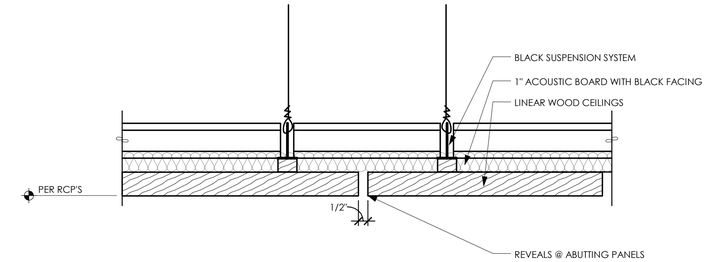


7 PROJECTION SCREEN
3" = 1'-0"

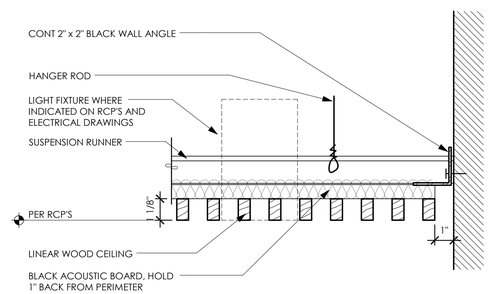


NOTE : COORDINATE LOCATIONS SHOWN ON RCP W/ ARCHITECT & MECHANICAL

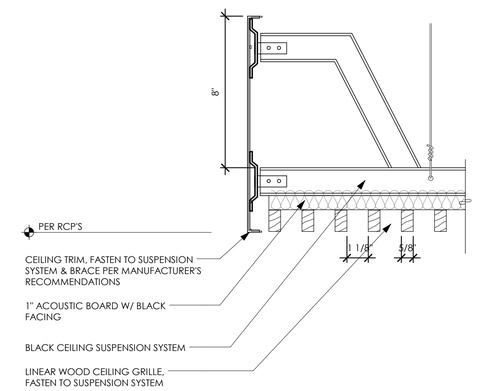
4 LINEAR WOOD ACCESS PANEL
3" = 1'-0"



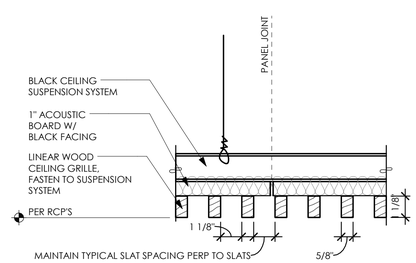
1 TYPICAL PANEL JOINTS PERP TO SLATS
3" = 1'-0"



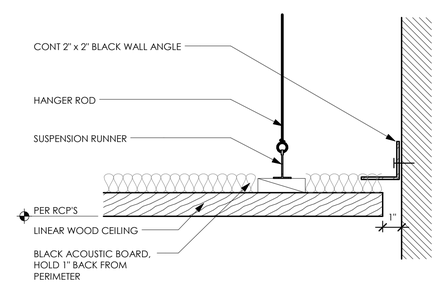
5 LINEAR WOOD CEILING EDGE
3" = 1'-0"



2 LINEAR WOOD CEILING EDGE
3" = 1'-0"



6 TYPICAL PANEL JOINTS PARALLEL
3" = 1'-0"



3 LINEAR WOOD CEILING EDGE
3" = 1'-0"

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CEILING DETAILS (ADDITIVE ALTERNATE AA-2)

Drawn By MR
Checked By MH

Sheet Number
A42.02

Sheet Number 173 Of 203

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OPENING ABBREVIATIONS

DOOR AND FRAME CONSTRUCTION

AL	ALUMINUM
FC	FACTORY CONSTRUCTION
HM	HOLLOW METAL
MC	MINERAL CORE
SC	SOLID CORE
STL	STEEL
WD	WOOD
GL	GLASS

DOOR AND FRAME FINISH

EN	ALKYD ENAMEL PAINT
FF	FACTORY FINISH
SL	STAIN AND SEAL (FACTORY FINISH)

GLASS TYPES

IF	INSULATED FLOAT
IL	INSULATED LAMINATED
ILT	INSULATED LAMINATED TEMPERED
IT	INSULATED TEMPERED PLATE
ITS	INSULATED TEMPERED S
T	TEMPERED FLOAT
TT	TEMPERED TRANSLUCENT
ITT	INSULATED TEMPERED TRANSLUCENT
SP	SPANDREL PANEL

RATINGS

N	NON-RATED
20	20 MINUTE LABEL
60	ONE HOUR LABEL

NOTE: RATING APPLIES TO BOTH DOOR & FRAME, UNLESS NOTED OTHERWISE

OTHER ABBREVIATIONS

PR	PAIR

REMARKS

B	METAL MINI-BLINDS (AT FRAME LIGHTS ONLY - NOT AT DOORS)
R	ROLLER SHADES
*	SIMILAR

LOUVER, FRAME AND DOOR TYPES, SCHEDULES AND DETAILS GENERAL NOTES

A. OTHER NOTES: SEE GENERAL NOTES ON G2 SERIES SHEETS FOR ADDITIONAL INFORMATION.

B. SYMBOLS AND ABBREVIATIONS: SEE G2 SERIES SHEETS FOR SYMBOLS AND ABBREVIATIONS AND THIS SHEET FOR ADDITIONAL ABBREVIATIONS SPECIFIC TO THESE SCHEDULES.

C. TYPICAL MOUNTING HEIGHTS: SEE G2 SERIES SHEETS FOR TYPICAL MOUNTING HEIGHTS.

D. DOOR TYPES AND SCHEDULES: SEE A61 SERIES SHEETS FOR DOOR TYPES AND SCHEDULES AND FOR ADDITIONAL NOTES AND INFORMATION.

E. FRAME TYPES AND SCHEDULES: SEE A63 SERIES SHEETS FOR INTERIOR FRAME TYPES AND SCHEDULES AND A64 SERIES SHEETS FOR EXTERIOR FRAME TYPES AND SCHEDULES.

E. OPENING DETAILS: SEE LOUVER, FRAME, ALUMINUM AND DOOR DETAILS ON A60 - A66 SERIES SHEETS. DETAILS MAY BE GENERIC IN NATURE: REFER TO SECTIONS AND WALL TYPES FOR WALL CONSTRUCTION AT SPECIFIC LOCATIONS. ADDITIONAL LAYERS OF GWB AND/OR FINISHES WILL BE REQUIRED AS SCHEDULED AND DETAILED. ALSO SEE INTERIOR ELEVATIONS AND FINISH SCHEDULE FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

F. OPENING REFERENCES: WALL LOUVERS, FRAMES, WINDOWS AND DOORS ARE REFERENCED ON THE FLOOR PLANS AND/OR EXTERIOR ELEVATIONS.

G. FINISHES: SEE A70 SERIES SHEETS AND REFER TO APPLICABLE SECTIONS IN SPECIFICATIONS.

H. HEAD FASTENING: FRAMES SHALL NOT BE FASTENED AT HEAD CONDITIONS UNLESS SPECIFICALLY RECOMMENDED BY THE MANUFACTURER AND DETAILED TO ACCOMMODATE DEFLECTION OF THE WALL OR STRUCTURE ABOVE.

I. EXPANSION AND CONTRACTION: ALL METAL AND GLASS WORK SHALL ALLOW FOR HORIZONTAL AND VERTICAL THERMAL EXPANSION AND CONTRACTION.

J. OPENING DIMENSIONS:

1. LOUVERS AND ALUMINUM FRAMED SYSTEMS: DIMENSIONS ON DRAWINGS AND SCHEDULES ARE ROUGH OPENING DIMENSIONS AT LOUVERS AND ALUMINUM FRAMES(STOREFRONT AND CURTAIN WALL). ACTUAL FRAME DIMENSIONS SHALL BE ADJUSTED AS REQUIRED TO PROVIDE CLEARANCE FOR INSTALLATION, ALIGNMENT WITH WALL REVEALS AND TRIM, SHIMMING AND PERIMETER CAULKING AS SHOWN ON DETAILS AND AS NOTED.

2. HOLLOW METAL SYSTEMS: DIMENSIONS IN SCHEDULES FOR HOLLOW METAL FRAMES ARE ACTUAL FRAME DIMENSIONS. ROUGH OPENING DIMENSIONS SHALL BE ADJUSTED AS REQUIRED TO PROVIDE CLEARANCE FOR INSTALLATION, SHIMMING AND PERIMETER CAULKING AS SHOWN ON DETAILS AND AS NOTED.

3. EQUAL DIMENSIONS: WHERE SCHEDULE SHOWS DIMENSIONS, BOTH VERTICAL AND HORIZONTAL, AS EQ. & EQ. THIS INDICATES THE FRAME/WINDOW SHALL BE FABRICATED SUCH THAT THESE DIMENSIONS ARE EQUAL, AND STANDARD SIZES OF GLAZING UNITS SHALL BE PROVIDED FOR EASE OF MAINTENANCE.

K. VISIBLE CLEARANCES: WHERE THERE ARE ANY VISIBLE CLEARANCES BETWEEN FRAME AND WALL, THEY SHALL BE CAULKED FOR A TIGHT FIT.

L. GALVANIC REACTIONS: WHEREVER METALS OF DIFFERENT GALVANIC RANGE ARE TO BE IN CONTACT, SUCH AS ALUMINUM THRESHOLDS AND HOLLOW METAL DOOR FRAMES, ETC., PROVIDE INDUSTRY-APPROVED SEPARATION BY BITUMINOUS PAINT COATS OR OTHER APPROVED METHOD AS APPROVED BY ARCHITECT.

M. STRUCTURAL FRAMING OF OPENINGS: SEE STRUCTURAL DRAWINGS FOR STRUCTURAL FRAMING OF OPENINGS, STRUCTURAL DRAWINGS SHALL SUPERSEDE FRAMING SHOWN ON ARCHITECTURAL DETAILS.

N. EXTERIOR VIEW: ALL ELEVATIONS ARE SHOWN AS VIEWED FROM EXTERIOR; DETAILS SHOWN MAY BE OPPOSITE HAND OF ACTUAL DETAIL CONDITION.

O. WINDOW COVERINGS: VERIFY MOUNTING LOCATION FOR ALL BLINDS AND SHADES WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION.

P. LOUVERS:

1. THE LOUVER TYPES AND SCHEDULE ARE FOR SIZE AND LOCATION. ANY LOUVER NOT INCLUDED HEREIN BUT SHOWN ON THE EXTERIOR ELEVATIONS SHALL STILL BE CONSIDERED A PART OF THE PROJECT. ALSO, ANY LOUVER NOT SCHEDULED HEREIN BUT INCLUDED IN THE MECHANICAL DRAWINGS SHALL BE INCLUDED AS IF SCHEDULED HEREIN. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.

2. GENERAL CONTRACTOR SHALL COORDINATE LOUVERS WITH MECHANICAL CONTRACTOR.

3. PROVIDE LOUVER WITH PAINTED, INSULATED, METAL COVERED BLANK-OFF PANELS BY LOUVER MANUFACTURER WHERE OPENING IS NOT USED BY MECHANICAL. SEE MECHANICAL FOR ADDITIONAL INFORMATION.

4. LOUVERS SHOWN IN DETAILS ARE GENERIC. SEE SPECIFICATIONS FOR ACTUAL BLADE CONFIGURATION REQUIREMENTS.

Q. HOLLOW METAL FRAMES:

1. DOOR FRAMES WITHOUT RE-LITES ARE REFERENCED ON THE DOOR SCHEDULE ONLY. DOOR FRAMES WITH ATTACHED RE-LITES ARE REFERENCED ON THE DOOR SCHEDULE, AND MAY ALSO BE SCHEDULED ON THE FLOOR PLANS AND/OR EXTERIOR ELEVATIONS. RE-LITES WITHOUT ASSOCIATED DOORS ARE REFERENCED ON THE FLOOR PLANS ONLY.

2. ALL STUD WALL THICKNESSES (INCLUDING GWB) SHALL BE VERIFIED FOR FRAME THROAT DIMENSION. SEE DETAILS FOR HOLLOW METAL FRAME PROFILE.

3. ALL HOLLOW METAL JAMBS SHALL BE FULLY GROUTED (EXCEPT MULLIONS) WHERE NOTED ON SCHEDULE OR WHERE CALLED FOR ON DETAILS OR WHERE ILLUSTRATED ON DETAILS WITH DOT PATTERN, UNLESS NOTED OTHERWISE. ALL HOLLOW METAL FRAMES AT EXTERIOR DOORS SHALL BE GROUTED SOLID, WHETHER SO NOTED OR NOT. SEE DIVISION 3 SPECIFICATION SECTION "GROUT AND UNDERLAYMENTS".

4. DO NOT GROUT HOLLOW METAL MULLIONS.

R. ALUMINUM AND HOLLOW METAL FRAMES & WINDOWS:

1. THE FRAME TYPES AND SCHEDULES INDICATE SIZE AND LOCATION. ANY FRAME NOT INCLUDED HEREIN BUT SHOWN ON THE INTERIOR OR EXTERIOR ELEVATIONS SHALL STILL BE CONSIDERED A PART OF THE PROJECT. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.

2. EXTERIOR ELEVATIONS ILLUSTRATE THE RELATIONSHIP OF FRAMES TO CONCRETE AND WALL PANEL JOINTS.

3. SEE DIVISION 8 SPECIFICATION SECTIONS "ALUMINUM-FRAMED ENTRANCES AND STOREFRONT" AND "GLAZED ALUMINUM CURTAIN WALLS" FOR BASIS OF DESIGN PRODUCTS. DETAILS ILLUSTRATE ABSTRACTIONS OF THESE SYSTEMS TO COMMUNICATE ALIGNMENT, APPROXIMATE SIZE AND OTHER REQUIREMENTS. SEE SPECIFICATIONS FOR MANUFACTURER REQUIREMENTS AND OPTIONS AND COORDINATE ACTUAL SIZE AND DETAILING WITH MANUFACTURER USED.

4. DETAILS GENERALLY ILLUSTRATE FIXED UNITS. LOCATIONS WITH OPERABLE UNITS SHALL BE ADJUSTED ACCORDINGLY.

S. GLAZING:

1. PROVIDE TEMPERED GLASS (FOR INTERIOR LOCATIONS) AND INSULATED TEMPERED GLASS (FOR EXTERIOR LOCATIONS, UNLESS SCHEDULED OTHERWISE) AT ALL LOCATIONS REQUIRED BY CODE, WHETHER SO NOTED IN THIS SECTION OR NOT. ADDITIONALLY, PROVIDE TEMPERED AND INSULATED TEMPERED GLASS IN ALL LOCATIONS SHOWN IN THIS SCHEDULE, WHETHER REQUIRED BY CODE OR NOT.

2. PROVIDE ISOLATION TAPE, SHIMS, ETC. AS INDICATED IN DIVISION 8 SPECIFICATION SECTION "GLAZING". THESE ITEMS ARE NOT NECESSARILY SHOWN ON DETAILS.

3. FOR GLASS TYPES AND LOCATIONS SEE FRAME TYPES AND SCHEDULES ON A63 & A64 SERIES SHEETS. FOR GLASS AND GLAZING SPECIFICATIONS SEE DIVISION 8 SECTION "GLAZING".

4. ALL EXTERIOR GLAZING WILL HAVE THE FOLLOWING VALUES: U-FACTOR OF .39-.51, A MINIMUM VLT OF 72%, A SHGC OF .25 - .35 AND A MINIMUM SC OF .44, SKYLIGHTS WILL HAVE A U-FACTOR OF .50 AND A SHGC OF .57. SEE THE SPECIFICATIONS FOR FURTHER INFORMATION.

T. DOOR FRAMES:

1. SEE DOOR AND FRAME SCHEDULES FOR DOOR WIDTH, HEIGHT, DETAIL REFERENCES AND TYPE OF GLAZING.

2. SEE DOOR SCHEDULE, HARDWARE SCHEDULE, FLOOR PLANS AND ELEVATIONS FOR MULLION LOCATIONS AND REQUIREMENTS. PROVIDE WHEREVER SCHEDULED OR SHOWN.

3. ALL EXTERIOR DOOR FRAMES SHALL HAVE A THRESHOLD AND WEATHER STRIPPING AT JAMBS, HEAD AND SILL.

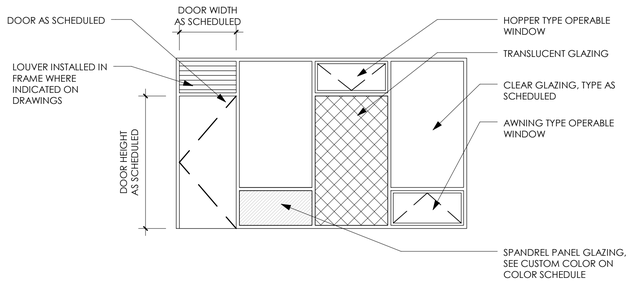
4. ALL THRESHOLDS SHALL BE GROUTED SOLID, UNLESS NOTED OTHERWISE, AND ATTACHED TO CONCRETE WITH EXPANSION ANCHORS, UNLESS NOTED OTHERWISE.

5. ALL DOOR FRAMES SHALL HAVE DOOR SILENCERS AT STRIKE SIDE OF JAMB PER THE MANUFACTURER'S STANDARDS. ALL DOORS WITH HOLLOW METAL FRAMES SHALL HAVE THREE DOOR SILENCERS AT STRIKE SIDE OF JAMB AND TWO ADDITIONAL DOOR SILENCERS AT HEAD OF DOUBLE DOORS WITH HOLLOW METAL FRAMES, UNLESS SPECIFIED OTHERWISE.

6. PROVIDE BLOCKING IN WALLS BEHIND ALL WALL STOPS.

U. MAX AIR LEAKAGE FOR DOORS AND FENESTRATION TO COMPLY WITH NREC AIR LEAKAGE REQUIREMENT:
- SWINGING ENTRY GLAZED DOORS TO MEET OR EXCEED 1.0 CFM/SQ FT
- CURTAIN WALLS/STOREFRONT GLAZING TO MEET OR EXCEED .04 CFM/SQ FT ASTM E283
- ALL OTHERS TO MEET OR EXCEED .2 CFM/SQ FT NFRC 400
- SEE SPECIFICATIONS FOR FURTHER INFORMATION

FRAME AND GLAZING TYPES LEGEND



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Project Numbers
2013-006

FTA PROJECT NUMBER: WA-0180-02

Issue & Revision Dates

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11 04 13	100% DD
12 30 13	AGENCY SET
02 05 13	BID SET

Sheet Title
LOUVER, DOOR, FRAME AND GLAZING NOTES

Drawn By MR
Checked By MH

Sheet Number
A60.00

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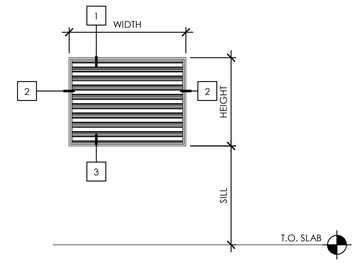

LOUVER TYPE	LOUVER NUMBER	ROOM NUMBER	DIMENSIONS			DETAILS						REMARKS
			WIDTH	HEIGHT	SILL	1	2	3	4	5	6	
LA	1	A123	6' - 0"	4' - 6"	11' - 6"	1 / A60.02	2 / A60.02	3 / A60.02				COLOR TO MATCH ADJACENT SIDING
LA	2	A118	3' - 4"	2' - 6"	11' - 6"	4 / A60.02	5 / A60.02	6 / A60.02				COLOR TO MATCH ADJACENT SIDNG
LA	3	A128	3' - 4"	6' - 0"	8' - 0"	1 / A60.03	2 / A60.03	3 / A60.03				COLOR TO MATCH ADJACENT SIDING
LA	4	A129	3' - 4"	6' - 0"	8' - 0"	1 / A60.03	2 / A60.03	3 / A60.03				COLOR TO MATCH ADJACENT SIDING
LA	5	A137	2' - 0"	2' - 0"	10' - 2"	7 / A60.02	8 / A60.02	9 / A60.02				COLOR TO MATCH ADJACENT SIDING
LA	6	A130	3' - 0"	3' - 6"	0' - 0"	1 / A60.03	2 / A60.03	4 / A60.03				COLOR TO MATCH ADJACENT SIDING
LA	7	A135	3' - 0"	3' - 6"	0' - 0"	1 / A60.03	2 / A60.03	4 / A60.03				COLOR TO MATCH ADJACENT SIDING

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Sheet Title
LOUVER SCHEDULE

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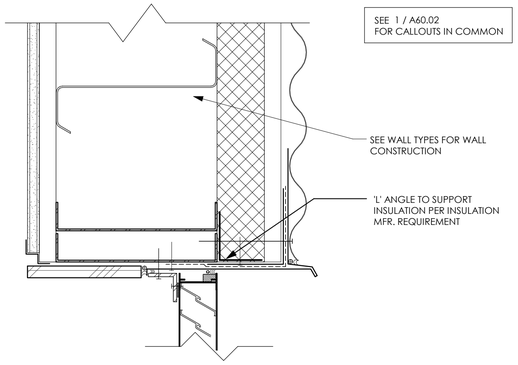
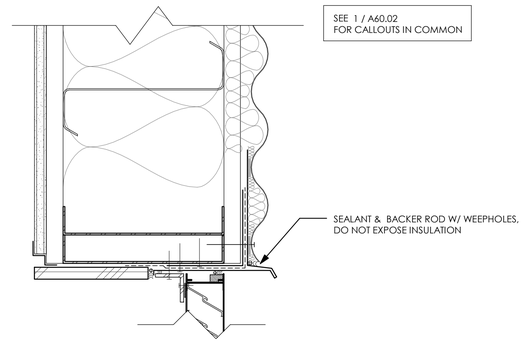
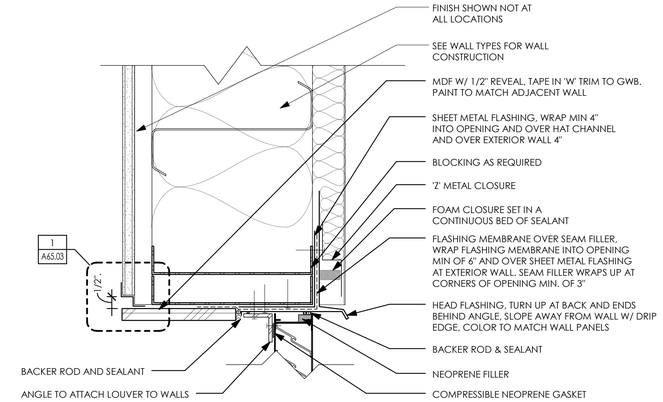


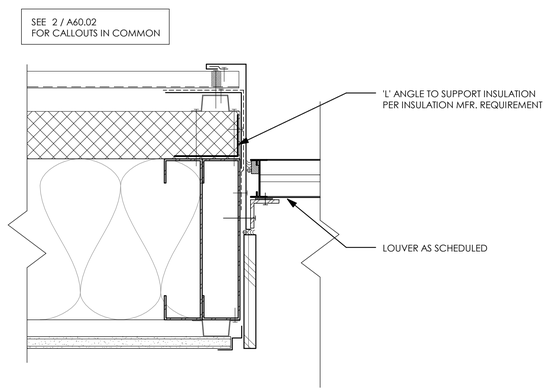
7 LOUVER HEAD @ HORIZONTAL METAL PANEL
3" = 1'-0"



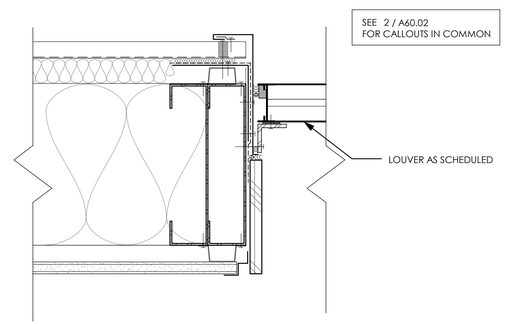
4 LOUVER HEAD @ HORIZONTAL METAL PANEL
3" = 1'-0"



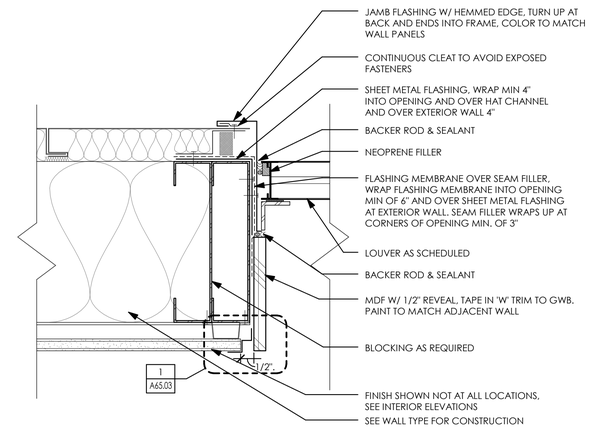
1 LOUVER HEAD @ VERTICAL METAL PANEL
3" = 1'-0"



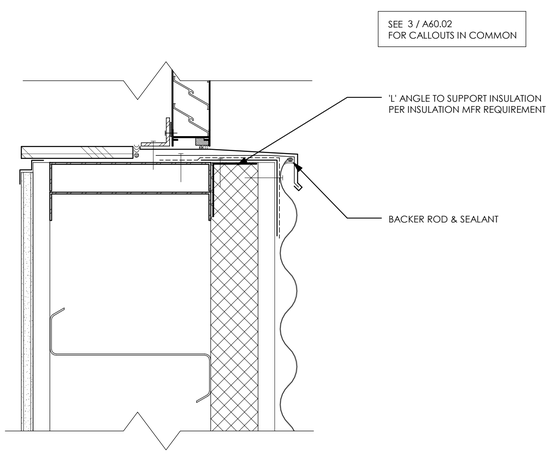
8 LOUVER JAMB @ HORIZONTAL METAL PANEL
3" = 1'-0"



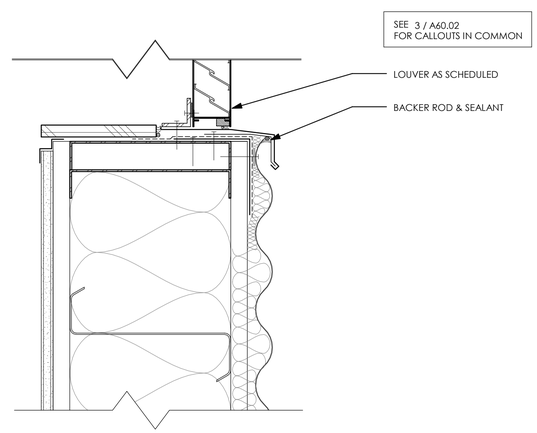
5 LOUVER JAMB @ HORIZONTAL METAL PANEL
3" = 1'-0"



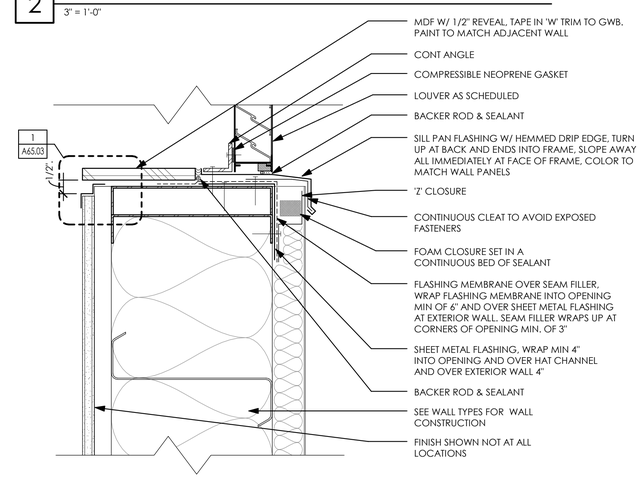
2 LOUVER JAMB @ VERTICAL METAL PANEL
3" = 1'-0"



9 LOUVER SILL @ HORIZONTAL METAL PANEL
3" = 1'-0"



6 LOUVER SILL @ HORIZONTAL METAL PANEL
3" = 1'-0"



3 LOUVER SILL @ VERTICAL METAL PANEL
3" = 1'-0"

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LOUVER FRAME DETAILS

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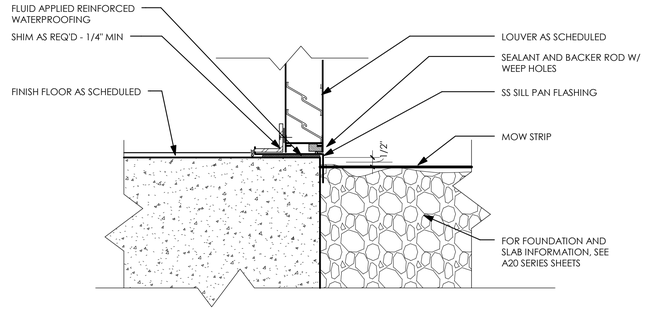
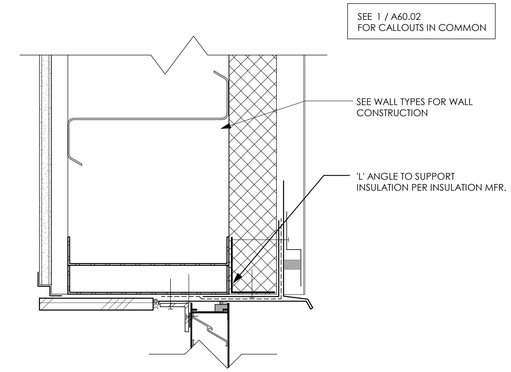


4 LOUVER SILL @ CONCRETE SLAB

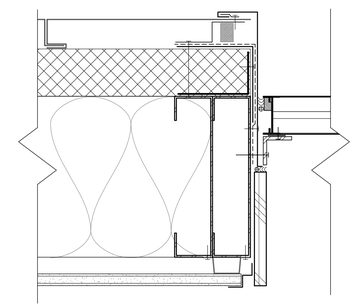
3" = 1'-0"



1 LOUVER HEAD @ VERTICAL METAL PANEL

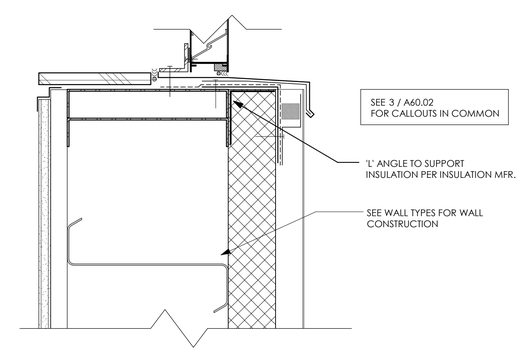
3" = 1'-0"

SEE 2 / A60.02
FOR CALLOUTS IN COMMON



2 LOUVER JAMB @ VERTICAL METAL PANEL

3" = 1'-0"



3 LOUVER SILL @ VERTICAL METAL PANEL

3" = 1'-0"

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LOUVER FRAME DETAILS

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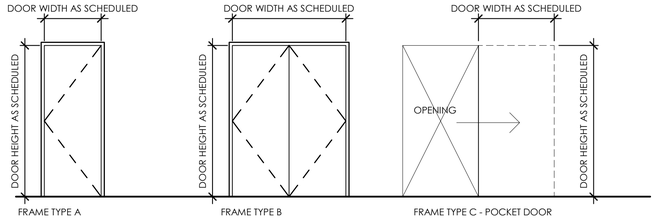
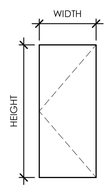
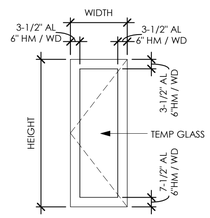
COMMON FRAME TYPES



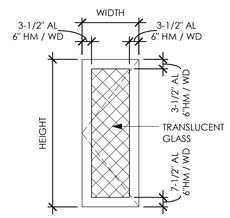
DOOR TYPES



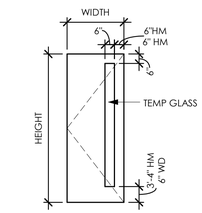
A FLUSH
SCALE: 1/4" = 1'-0"



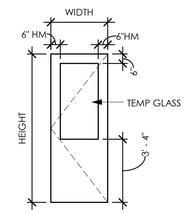
B FULL LIGHT
SCALE: 1/4" = 1'-0"



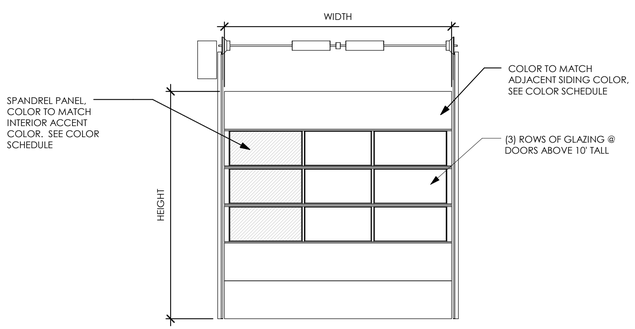
C FULL LIGHT
SCALE: 1/4" = 1'-0"



D NARROW LIGHT
SCALE: 1/4" = 1'-0"



F HALF LIGHT
SCALE: 1/4" = 1'-0"



E OVERHEAD SECTIONAL
SCALE: 1/4" = 1'-0"

GENERAL NOTES TO DOOR SCHEDULE

A. OTHER NOTES: SEE GENERAL NOTES ON G2 SERIES SHEETS FOR ADDITIONAL INFORMATION.

B. OPENING GENERAL NOTES: SEE NOTES TO LOUVERS, FRAME AND DOOR TYPES, SCHEDULES AND DETAILS ON A60 SERIES SHEETS.

C. REFERENCES: SEE FLOOR PLANS FOR DOOR OPENING REFERENCES AND DIVISION 8 SPECIFICATION SECTION "DOOR HARDWARE" FOR DOOR HARDWARE SPECIFICATIONS AND HARDWARE SCHEDULED FOR EACH DOOR.

D. DOOR NUMBERS: DOOR NUMBER DESIGNATIONS GENERALLY CORRESPOND TO ROOM NUMBERS WHERE DOORS ARE LOCATED.

E. GLAZING DIMENSIONS: DIMENSIONS FOR GLAZING ON DOOR TYPES INDICATE CLEAR OPENING GLASS SIZE.

F. FIRE RATED DOOR ASSEMBLIES: DOORS SHALL BE FIRE-RATED WHERE NOTED ON SCHEDULE: SCHEDULE NOTES RATING IN MINUTES. FRAME TO BE RATED AND LABELED SAME AS DOOR, TYP.

G. EXTERIOR DOORS: SHALL BE INSULATED AND EXTERIOR HOLLOW METAL DOORS SHALL BE GALVANIZED.

H. CONFLICTS: IN THE EVENT OF A DOOR FRAME CONSTRUCTION CONFLICT BETWEEN THE DOOR SCHEDULE AND DETAILS, CONTACT ARCHITECT IMMEDIATELY FOR CLARIFICATION.

I. HANDICAPPED LEVER HANDLES: PROVIDE LEVER HANDLES TYPICAL AT LOCKSETS AND LATCHSETS, EXCEPT AS PROVIDED IN HARDWARE SPECIFICATIONS.

J. ALL DOORS TO MEET THE MINIMUM CODE U-VALUE REQUIREMENTS. SEE SPECIFICATIONS FOR MORE INFORMATION

K. HOLLOW METAL DOORS TO HAVE MINIMUM U-VALUE OF .091, SEE SPECIFICATIONS.

L. OVERHEAD DOORS TO HAVE A MINIMUM R-VALUE OF 17.5, SEE SPECIFICATIONS.

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Sheet Title
DOOR TYPES

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Checked By: MH

Sheet Number
A61.00

Sheet Number 178 Of 203

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BUILDING A

DOOR NUMBER	TYPE	DOOR						FRAME		THRSH	JAMB 1	JAMB 2	HEAD	REMARKS
		PAIR	WIDTH	HEIGHT	CNST / FIN	RATING	GLASS	TYPE	CNST / FIN					
A100Aa	B	-	3' - 0"	8' - 0"	AL/FF	N	IT	AGG	AL/FF	3 / A20.00	3 / A65.02	–	–	ADA OPERATOR, KEY CARD ACCESS - SEE ELECTRICAL DRAWINGS
A100Ab	B	-	3' - 0"	8' - 0"	AL/FF	N	IT	AII	AL/FF	–	5 / A65.02	–	–	ADA OPERATOR
A100Ba	C	-	3' - 0"	7' - 0"	WD,SC/FF	N	ITT	AD	HM/EN	–	2 / A62.00	4 / A62.00	1 / A62.00	KEY CARD ACCESS - SEE ELECTRICAL DRAWINGS, FRAME COLOR TO MATCH PTI-1
A101a	A	-	4' - 0"	7' - 0"	WD,SC/FF	N	-	C	AL/FF	–	4 / A62.01	5 / A62.01	3 / A62.01	POCKET DOOR, FRAME COLOR TO MATCH PTI-1
A102a	A	-	3' - 0"	7' - 0"	WD,SC/FF	N	-	A	HM/EN	–	2 / A62.00	–	1 / A62.00	ADA OPERATOR, FRAME AND DOOR COLOR TO MATCH PTI-1
A103a	C	-	3' - 0"	7' - 0"	WD,SC/FF	N	ITT	AD	HM/EN	–	2 / A62.00	4 / A62.00	1 / A62.00	FRAME COLOR TO MATCH PTI-1
A103b	C	-	3' - 0"	7' - 0"	WD,SC/FF	N	ITT	AD	HM/EN	–	2 / A62.00	4 / A62.00	1 / A62.00	FRAME COLOR TO MATCH PTI-1
A104a	C	-	3' - 0"	7' - 0"	WD,SC/FF	N	ITT	AD	HM/EN	–	2 / A62.00	4 / A62.00	1 / A62.00	FRAME COLOR TO MATCH PTI-1
A104Aa	A	-	2' - 6"	7' - 0"	WD,SC/FF	N	-	A	HM/EN	–	2 / A62.00	–	1 / A62.00	FRAME COLOR TO MATCH PTI-1
A104b	B	-	3' - 0"	7' - 0"	WD,SC/FF	N	IT	AD	HM/EN	–	2 / A62.00	4 / A62.00	1 / A62.00	FRAME COLOR TO MATCH PTI-1
A104Ba	A	-	4' - 2"	7' - 0"	WD,SC/FF	N	-	A	HM/EN	–	2 / A62.00	–	1 / A62.00	FRAME COLOR TO MATCH PTI-1
A104Ca	A	-	3' - 0"	7' - 0"	WD,SC/FF	N	-	A	HM/EN	–	2 / A62.00	–	1 / A62.00	FRAME COLOR TO MATCH PTI-1
A105a	C	-	3' - 0"	7' - 0"	WD,SC/FF	N	ITT	AD	HM/EN	–	2 / A62.00	4 / A62.00	1 / A62.00	FRAME COLOR TO MATCH PTI-1
A106a	C	-	3' - 0"	7' - 0"	WD,SC/FF	N	ITT	AD	HM/EN	–	2 / A62.00	4 / A62.00	1 / A62.00	FRAME COLOR TO MATCH PTI-1
A107a	C	-	3' - 0"	7' - 0"	WD,SC/FF	N	ITT	AD	HM/EN	–	2 / A62.00	4 / A62.00	1 / A62.00	FRAME COLOR TO MATCH PTI-1
A108a	C	-	3' - 0"	7' - 0"	WD,SC/FF	N	ITT	AD	HM/EN	–	2 / A62.00	4 / A62.00	1 / A62.00	FRAME COLOR TO MATCH PTI-1
A109a	C	-	3' - 0"	7' - 0"	WD,SC/FF	N	ITT	AD	HM/EN	–	2 / A62.00	4 / A62.00	1 / A62.00	FRAME COLOR TO MATCH PTI-1
A110a	C	-	3' - 0"	7' - 0"	WD,SC/FF	N	ITT	AD	HM/EN	–	2 / A62.00	4 / A62.00	1 / A62.00	FRAME COLOR TO MATCH PTI-1
A113a	C	-	3' - 0"	7' - 0"	WD,SC/FF	N	ITT	A	HM/EN	–	2 / A62.00	–	1 / A62.00	FRAME COLOR TO MATCH PTI-1
A113b	D	-	3' - 0"	7' - 0"	HM/EN	N	ITT	A	HM/EN	–	2 / A62.00	–	1 / A62.00	FRAME AND DOOR COLOR TO MATCH HPCE-1
A114a	A	-	3' - 0"	7' - 0"	WD,SC/FF	N	-	A	HM/EN	–	2 / A62.00	–	1 / A62.00	FRAME COLOR TO MATCH PTI-1
A115a	C	-	3' - 0"	7' - 0"	WD,SC/FF	N	ITT	AD	HM/EN	–	2 / A62.00	4 / A62.00	1 / A62.00	FRAME COLOR TO MATCH PTI-1
A116a	A	-	3' - 0"	7' - 0"	WD,SC/FF	N	-	A	HM/EN	–	2 / A62.00	–	1 / A62.00	FRAME COLOR TO MATCH PTI-1
A117a	A	-	3' - 0"	7' - 0"	WD,SC/FF	N	-	A	HM/EN	–	2 / A62.00	4 / A62.00	1 / A62.00	FRAME COLOR TO MATCH PTI-1
A119a	B	-	3' - 0"	8' - 0"	AL/FF	N	IT	ACC	AL/FF	3 / A20.00	2 / A65.00	–	–	
A119b	B	-	3' - 0"	8' - 0"	AL/FF	N	IT	ACC	AL/FF	3 / A20.00	4 / A65.01	–	–	
A120a	A	-	3' - 0"	7' - 0"	WD,SC/FF	N	-	A	HM/EN	–	2 / A62.00	–	1 / A62.00	FRAME COLOR TO MATCH PTI-1
A120Aa	A	-	3' - 0"	7' - 0"	HM/EN	N	-	A	HM/EN	–	2 / A62.00	–	1 / A62.00	FRAME AND DOOR COLOR TO MATCH PTI-1
A121a	A	-	3' - 0"	7' - 0"	WD,SC/FF	N	-	A	HM/EN	–	2 / A62.00	–	1 / A62.00	FRAME COLOR TO MATCH PTI-1
A121Aa	A	-	3' - 0"	7' - 0"	HM/EN	N	-	A	HM/EN	–	2 / A62.00	–	1 / A62.00	FRAME AND DOOR COLOR TO MATCH PTI-1
A123a	C	-	3' - 0"	7' - 0"	WD,SC/FF	N	ITT	AD	HM/EN	–	2 / A62.00	4 / A62.00	1 / A62.00	FRAME COLOR TO MATCH PTI-1
A124a	C	-	3' - 0"	7' - 0"	WD,SC/FF	N	ITT	AD	HM/EN	–	2 / A62.00	4 / A62.00	1 / A62.00	FRAME COLOR TO MATCH PTI-1
A127a	A	-	3' - 0"	7' - 0"	WD,SC/FF	N	-	A	HM/EN	–	2 / A62.00	–	1 / A62.00	FRAME COLOR TO MATCH PTI-1
A128a	D	-	3' - 0"	7' - 0"	HM/EN	N	IT	A	HM/EN	3 / A20.00	1 / A65.05	–	4 / A65.05	FRAME AND DOOR COLOR TO MATCH HPCE-1
A128b	E		14' - 0"	14' - 0"	FC/EN	N	IT*	-		6 / A20.00	1 / A65.06	–	3 / A65.06	FRAME AND DOOR COLOR TO MATCH HPCE-1, *SPANDREL PANEL COLOR TO MATCH HPCE-2
A129a	D	-	3' - 0"	7' - 0"	HM/EN	N	IT	A	HM/EN	3 / A20.00	1 / A65.05	–	4 / A65.05	FRAME AND DOOR COLOR TO MATCH HPCE-1
A129b	E		14' - 0"	14' - 0"	FC/EN	N	IT*	-		6 / A20.00	1 / A65.06	–	3 / A65.06	FRAME AND DOOR COLOR TO MATCH HPCE-1, *SPANDREL PANEL COLOR TO MATCH HPCE-2
A129c	A	PR	6' - 4"	8' - 0"	HM/EN	N	-	B	HM/EN	3 / A20.00	3 / A65.05	–	2 / A65.05	FRAME AND DOOR COLOR TO MATCH HPCE-1
A130a	D	PR	6' - 4"	8' - 0"	HM/EN	N	IT	B	HM/EN	–	7 / A62.00	–	6 / A62.00	24"x24" GRILL ON EACH DOOR, SEE MECH & INTERIOR ELEVATIONS, FRAME AND DOOR COLOR TO MATCH HPCE-1
A131a	D	-	3' - 0"	7' - 0"	HM/EN	N	IT	A	HM/EN	–	7 / A62.00	–	6 / A62.00	FRAME AND DOOR COLOR TO MATCH HPCE-1
A131b	A	-	3' - 0"	7' - 0"	HM/EN	N	-	A	HM/EN	–	7 / A62.00	–	6 / A62.00	FRAME AND DOOR COLOR TO MATCH HPCE-1
A132a	D	-	3' - 0"	7' - 0"	HM/EN	N	IT	A	HM/EN	–	7 / A62.00	–	6 / A62.00	FRAME AND DOOR COLOR TO MATCH HPCE-1
A133a	A	-	3' - 0"	7' - 0"	HM/EN	N	-	A	HM/EN	–	7 / A62.00	–	6 / A62.00	FRAME AND DOOR COLOR TO MATCH HPCE-1
A136a	A	PR	6' - 4"	8' - 0"	HM/EN	N	-	B	HM/EN	–	3 / A65.05	–	2 / A65.05	FRAME AND DOOR COLOR TO MATCH HPCE-1
A137a	E		12' - 0"	12' - 0"	FC/EN	N	IT*	-		6 / A20.00	2 / A65.06	–	3 / A65.06	FRAME AND DOOR COLOR TO MATCH HPCE-1, *SPANDREL PANEL COLOR TO MATCH HPCE-2
A137b	D	-	3' - 0"	7' - 0"	HM/EN	N	IT	A	HM/EN	–	3 / A65.05	–	2 / A65.05	FRAME AND DOOR COLOR TO MATCH HPCE-1
A138b	A	-	3' - 0"	7' - 0"	HM/EN	N	-	A	HM/EN	–	3 / A65.05	–	2 / A65.05	FRAME AND DOOR COLOR TO MATCH HPCE-1

BUILDING D

DOOR NUMBER	TYPE	DOOR						FRAME		THRSH	JAMB 1	JAMB 2	HEAD	REMARKS
		PAIR	WIDTH	HEIGHT	CNST / FIN	RATING	GLASS	TYPE	CNST / FIN					
D101a	A	-	3' - 0"	7' - 0"	HM/EN	N	-	A	HM/EN	3 / A20.00	6 / A65.05	-	5 / A65.05	FRAME AND DOOR COLOR TO MATCH HPCE-1
D101b	E		8' - 0"	8' - 0"	FC/EN	N	-	-	FC / EN	6 / A20.00	5 / A65.06	-	4 / A65.06	FRAME AND DOOR COLOR TO MATCH HPCE-1

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Project Numbers
2013-006

FTA PROJECT NUMBER: WA-0180-02

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Sheet Title
DOOR SCHEDULES

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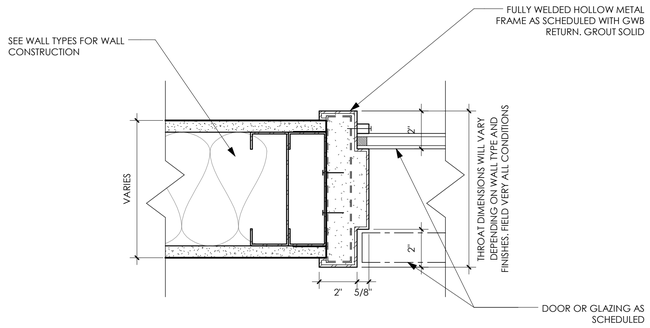
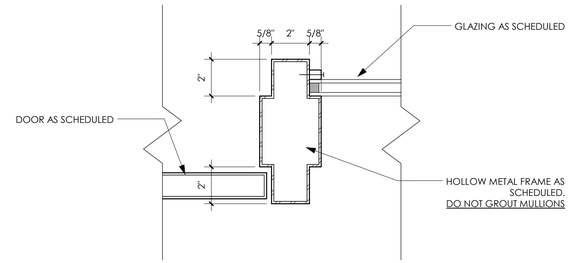
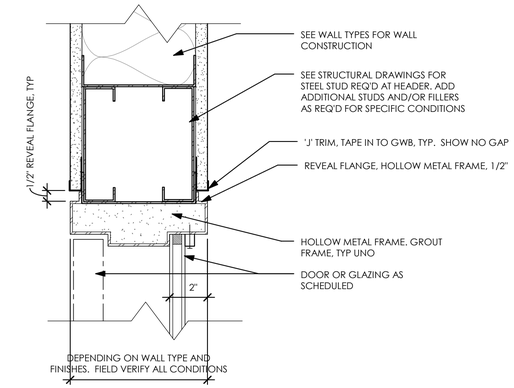


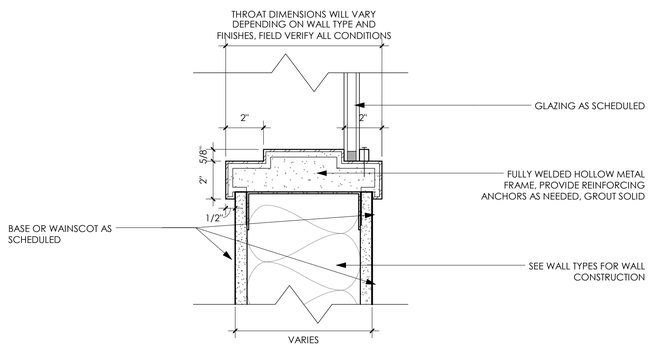
7 INTERIOR HM JAMB @ GWB (MAINTENANCE SHOPS)
3" = 1'-0"



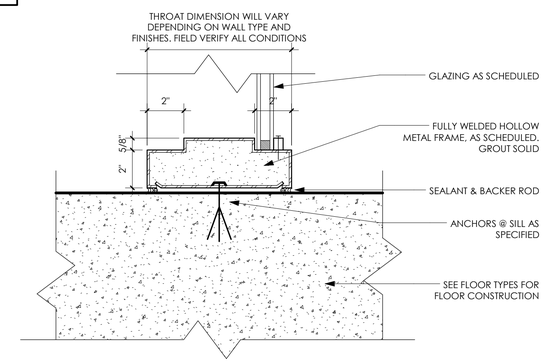
4 HM JAMB @ DOOR & RELIGHT
3" = 1'-0"



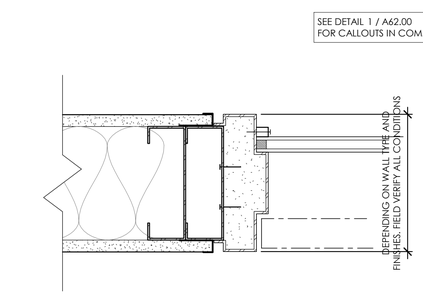
1 INTERIOR HM HEAD @ GWB
3" = 1'-0"



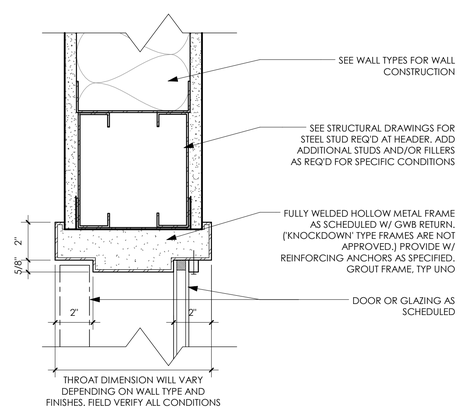
8 INTERIOR HM SILL @ GWB (MAINTENANCE SHOPS)
3" = 1'-0"



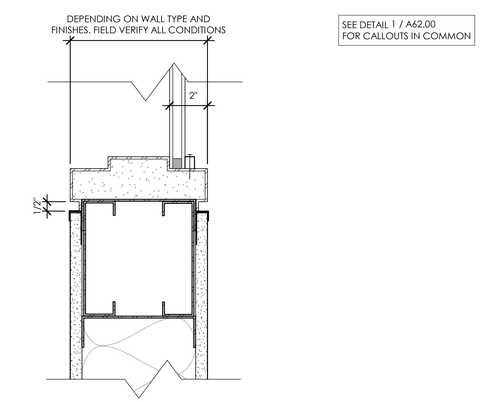
5 INTERIOR HM SILL @ FLOOR
3" = 1'-0"



2 INTERIOR HM JAMB @ GWB
3" = 1'-0"



6 INTERIOR HM HEAD @ GWB (MAINTENANCE SHOPS)
3" = 1'-0"



3 INTERIOR HM SILL @ GWB
3" = 1'-0"

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INTERIOR HOLLOW METAL FRAME DETAILS

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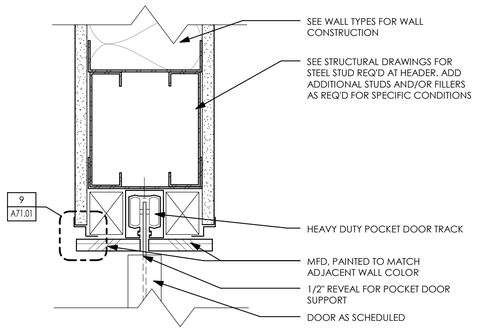
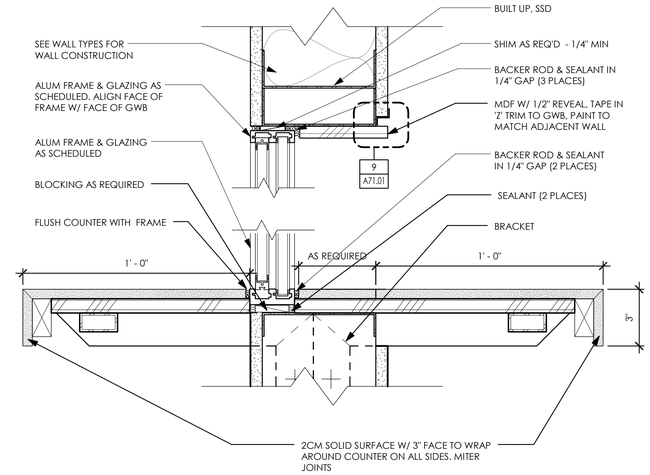


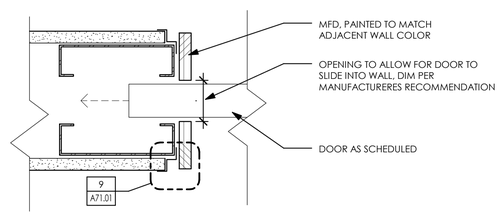
3 INTERIOR POCKET DOOR HEAD

3" = 1'-0"



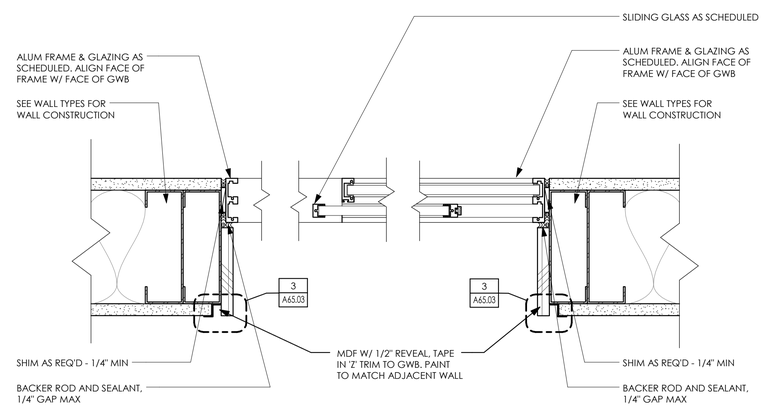
1 ALUM SLIDER WINDOW HEAD/SILL @ INT GWB WALL

3" = 1'-0"



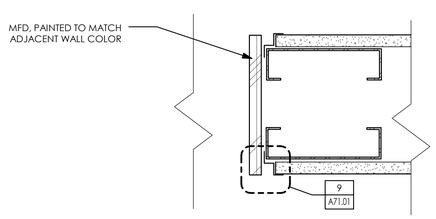
4 INTERIOR POCKET DOOR JAMB

3" = 1'-0"



2 ALUM SLIDER WINDOW JAMB @ INTERIOR GWB WALL

3" = 1'-0"



5 INTERIOR POCKET DOOR JAMB

3" = 1'-0"

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Sheet Title
INTERIOR ALUMINUM FRAME AND POCKET DOOR DETAILS

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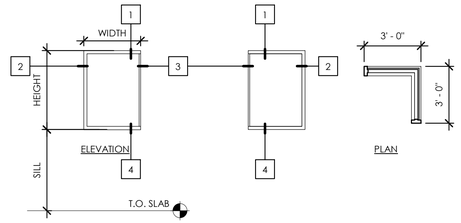
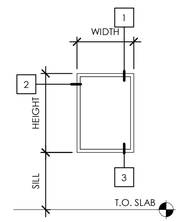


FRAME TYPE AA

HOLLOW METAL FRAME

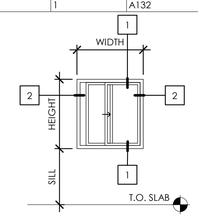
FRAME TYPE	FRAME NUMBER	ROOM NUMBER	DIMENSIONS			FIRE RATING	GLASS	DETAILS						REMARKS
			WIDTH	HEIGHT	SILL			1	2	3	4	5	6	
AA	1	A131	3' - 0"	4' - 2"	3' - 0"	N	IT	6 / A62.00	7 / A62.00	9 / A65.02	8 / A62.00	–	–	



FRAME TYPE AB

HOLLOW METAL FRAME

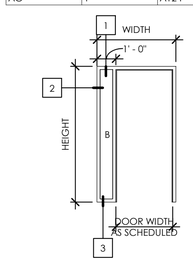
FRAME TYPE	FRAME NUMBER	ROOM NUMBER	DIMENSIONS			FIRE RATING	GLASS	DETAILS						REMARKS
			WIDTH	HEIGHT	SILL			1	2	3	4	5	6	
AB	1	A132	3' - 0"	4' - 2"	3' - 0"	N	IT	6 / A62.00	7 / A62.00	8 / A62.00	–	–	–	



FRAME TYPE AC

HOLLOW ALUMINUM FRAME

FRAME TYPE	FRAME NUMBER	ROOM NUMBER	DIMENSIONS			FIRE RATING	GLASS	DETAILS						REMARKS
			WIDTH	HEIGHT	SILL			1	2	3	4	5	6	
AC	1	A124	3' - 6"	3' - 8"	3' - 6"	N	IT	1 / A62.01	2 / A62.01	–	–	–	–	



FRAME TYPE AD

FRAME TYPE	FRAME NUMBER	ROOM NUMBER	DIMENSIONS			FIRE RATING	GLASS	DETAILS 1	DETAILS 2	DETAILS 3	DETAILS 4	DETAILS 5	REMARKS
			WIDTH	HEIGHT	SILL								
AD	1	A104	4' - 2"	7' - 2"	0' - 0"	N	IT	1 / A62.00	2 / A62.00	5 / A62.00	–	–	-
AD	2	A104	4' - 2"	7' - 2"	0' - 0"	N	IT	1 / A62.00	2 / A62.00	5 / A62.00	–	–	B
AD	3	A105	4' - 2"	7' - 2"	0' - 0"	N	IT	1 / A62.00	2 / A62.00	5 / A62.00	–	–	B
AD	4	A106	4' - 2"	7' - 2"	0' - 0"	N	IT	1 / A62.00	2 / A62.00	5 / A62.00	–	–	B
AD	5	A107	4' - 2"	7' - 2"	0' - 0"	N	IT	1 / A62.00	2 / A62.00	5 / A62.00	–	–	B
AD	6	A108	4' - 2"	7' - 2"	0' - 0"	N	IT	1 / A62.00	2 / A62.00	5 / A62.00	–	–	B
AD	7	A109	4' - 2"	7' - 2"	0' - 0"	N	IT	1 / A62.00	2 / A62.00	5 / A62.00	–	–	B
AD	8	A110	4' - 2"	7' - 2"	0' - 0"	N	IT	1 / A62.00	2 / A62.00	5 / A62.00	–	–	B
AD	11	A115	4' - 2"	7' - 2"	0' - 0"	N	IT	1 / A62.00	2 / A62.00	5 / A62.00	–	–	B
AD	12	A123	4' - 2"	7' - 2"	0' - 0"	N	IT	1 / A62.00	2 / A62.00	5 / A62.00	–	–	B
AD	13	A124	4' - 2"	7' - 2"	0' - 0"	N	IT	1 / A62.00	2 / A62.00	5 / A62.00	–	–	B
AD	14	A103	4' - 2"	7' - 2"	0' - 0"	N	IT	1 / A62.00	2 / A62.00	5 / A62.00	–	–	B
AD	15	A103	4' - 2"	7' - 2"	0' - 0"	N	IT	1 / A62.00	2 / A62.00	5 / A62.00	–	–	B
AD	16	A100b	4' - 2"	7' - 2"	0' - 0"	N	IT	1 / A62.00	2 / A62.00	5 / A62.00	–	–	B

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Project Numbers
2013-006

FTA PROJECT NUMBER: WA-0180-02

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Sheet Title
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Drawn By: MR
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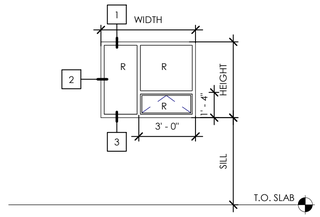
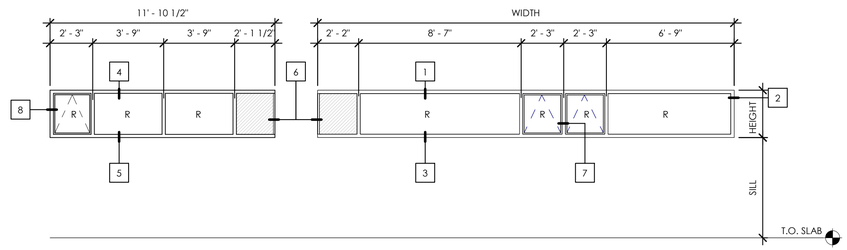


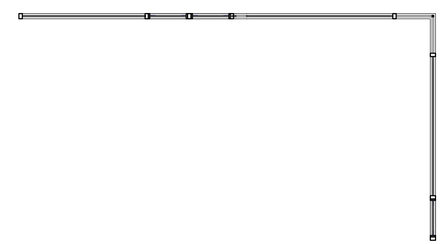
FRAME TYPE AAA

STOREFRONT FRAME

FRAME TYPE	FRAME NUMBER	ROOM NUMBER	DIMENSIONS			FIRE RATING	GLASS	DETAILS						REMARKS
			WIDTH	HEIGHT	SILL			1	2	3	4	5	6	
AAA	1	A103	5' - 0"	4' - 0"	3' - 0"	N	IT	3 / A65.03	4 / A65.03	5 / A65.03	–	–	–	R
AAA	2	A105	5' - 0"	4' - 0"	3' - 0"	N	IT	2 / A36.02	2 / A65.00	3 / A65.00	–	–	–	R
AAA	3	A106	5' - 0"	4' - 0"	3' - 0"	N	IT	2 / A36.02	2 / A65.00	3 / A65.00	–	–	–	R
AAA	4	A107	5' - 0"	4' - 0"	3' - 0"	N	IT	2 / A36.02	2 / A65.00	3 / A65.00	–	–	–	R
AAA	5	A108	5' - 0"	4' - 0"	3' - 0"	N	IT	2 / A36.02	2 / A65.00	3 / A65.00	–	–	–	R
AAA	6	A109	5' - 0"	4' - 0"	3' - 0"	N	IT	2 / A36.02	2 / A65.00	3 / A65.00	–	–	–	R

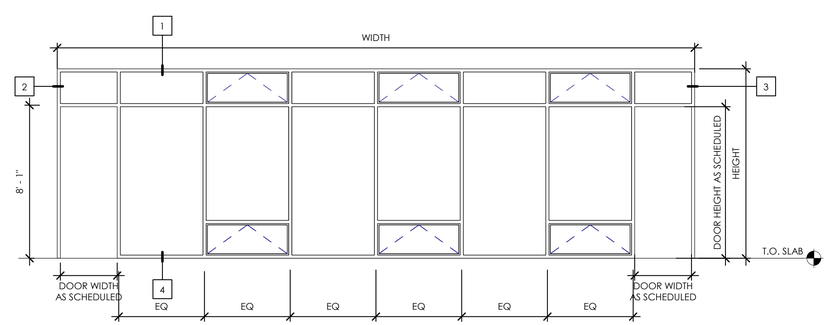


FRAME TYPE ABB



STOREFRONT FRAME

FRAME TYPE	FRAME NUMBER	ROOM NUMBER	DIMENSIONS			FIRE RATING	GLASS	DETAILS								REMARKS
			WIDTH	HEIGHT	SILL			1	2	3	4	5	6	7	8	
ABB	1	A124	22' - 0"	2' - 6"	3' - 0"	N	IT/SP	2 / A36.02	5 / A65.00	6 / A65.00	2 / A36.02	3 / A65.00	9 / A65.02	6 / A65.02	2 / A65.00	R



FRAME TYPE ACC

STOREFRONT FRAME

FRAME TYPE	FRAME NUMBER	ROOM NUMBER	DIMENSIONS			FIRE RATING	GLASS	DETAILS						REMARKS
			WIDTH	HEIGHT	SILL			1	2	3	4	5	6	
ACC	1	A119	33' - 8"	10' - 0"	0' - 0"	N	IT	7 / A65.03 SIM	2 / A65.00 SIM	4 / A65.01 SIM	1 / A65.02	–	–	

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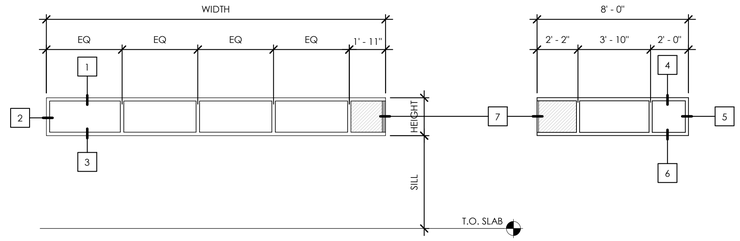
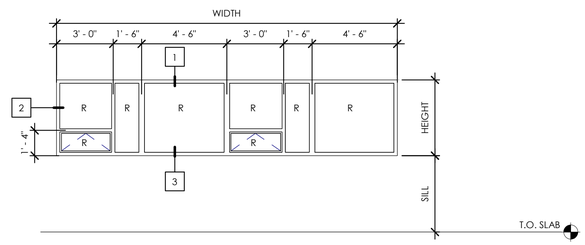


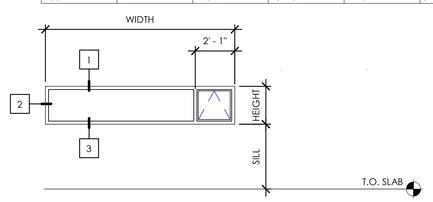
FRAME TYPE ADD

FRAME TYPE	FRAME NUMBER	ROOM NUMBER	DIMENSIONS			FIRE RATING	GLASS	DETAILS							REMARKS
			WIDTH	HEIGHT	SILL			1	2	3	4	5	6	7	
ADD	1	A135	18' - 0 1/2"	2' - 0"	8' - 0"	N	IT/SP	7 / A65.00	8 / A65.00	9 / A65.00	1 / A65.01	2 / A65.01	3 / A65.01	9 / A65.02	



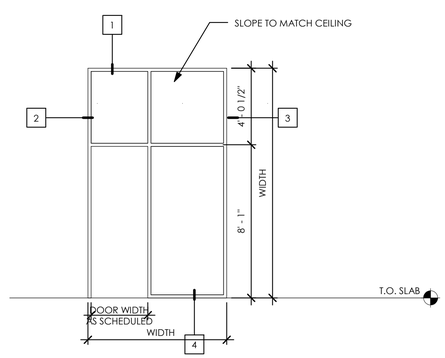
FRAME TYPE AEE

FRAME TYPE	FRAME NUMBER	ROOM NUMBER	DIMENSIONS			FIRE RATING	GLASS	DETAILS						REMARKS
			WIDTH	HEIGHT	SILL			1	2	3	4	5	6	
AEE	1	A104	18' - 0"	4' - 0"	3' - 2"	N	IT	2 / A36.02	2 / A65.00	3 / A65.00	–	–	–	



FRAME TYPE AFF

FRAME TYPE	FRAME NUMBER	ROOM NUMBER	DIMENSIONS			FIRE RATING	GLASS	DETAILS						REMARKS
			WIDTH	HEIGHT	SILL			1	2	3	4	5	6	
AFF	1	A137	10' - 0"	2' - 0"	7' - 2"	N	IT	2 / A65.01 SIM	3 / A65.01 SIM	3 / A65.01 SIM	–	–	–	



FRAME TYPE AGG

FRAME TYPE	FRAME NUMBER	ROOM NUMBER	DIMENSIONS			FIRE RATING	GLASS	DETAILS	DETAILS	DETAILS	DETAILS	DETAILS	DETAILS	REMARKS
			WIDTH	HEIGHT	SILL			1	2	3	4	5	6	
AGG	1	A100a	7' - 4"	12' - 1 1/2"	0' - 0"	N	IT	8 / A65.02	3 / A65.02	1 / A65.03	1 / A65.02	–	–	

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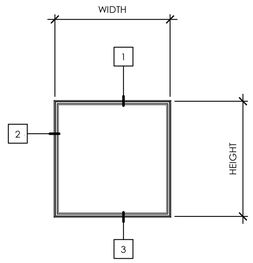
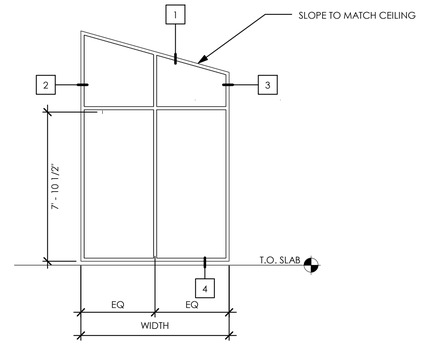


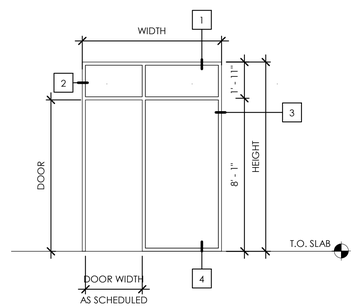
FRAME TYPE AKK

FRAME TYPE	DIMENSIONS		FIRE RATING	GLASS	DETAILS			REMARKS
	WIDTH	HEIGHT			1	2	3	
AKK	6' - 0"	6' - 0"			1 / A65.04	3 / A65.04	2 / A65.04	
AKK	6' - 0"	6' - 0"			1 / A65.04	3 / A65.04	2 / A65.04	
AKK	6' - 0"	6' - 0"			1 / A65.04	3 / A65.04	2 / A65.04	
AKK	6' - 0"	6' - 0"			1 / A65.04	3 / A65.04	2 / A65.04	
AKK	6' - 0"	6' - 0"			1 / A65.04	3 / A65.04	2 / A65.04	
AKK	6' - 0"	6' - 0"			1 / A65.04	3 / A65.04	2 / A65.04	



FRAME TYPE AHH

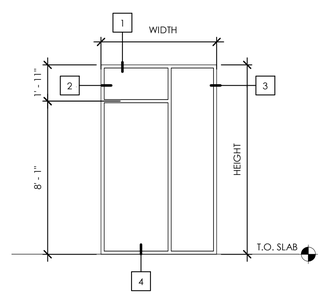
FRAME TYPE	FRAME NUMBER	ROOM NUMBER	DIMENSIONS			FIRE RATING	GLASS	DETAILS						REMARKS
			WIDTH	HEIGHT	SILL			1	2	3	4	5	6	
AHH	1	A100a	7' - 10"	12' - 2"	0' - 0"	N	IT	8 / A65.02	1 / A65.03	2 / A65.03	1 / A65.02	–	–	



FRAME TYPE All

STOREFRONT FRAME

FRAME TYPE	FRAME NUMBER	ROOM NUMBER	DIMENSIONS			FIRE RATING	GLASS	DETAILS						REMARKS
			WIDTH	HEIGHT	SILL			1	2	3	4	5	6	
All	1	A100a	7' - 4"	10' - 0"	0' - 0"	N	IT	7 / A65.02	5 / A65.02	2 / A65.03	2 / A65.02	–	–	



FRAME TYPE AJJ

STOREFRONT FRAME

FRAME TYPE	FRAME NUMBER	ROOM NUMBER	DIMENSIONS			FIRE RATING	GLASS	DETAILS						REMARKS
			WIDTH	HEIGHT	SILL			1	2	3	4	5	6	
AJJ	1	A100b	6' - 1 1/2"	10' - 0"	0' - 0"	N	IT	7 / A65.02	2 / A65.03	4 / A65.02	1 / A65.02	–	–	

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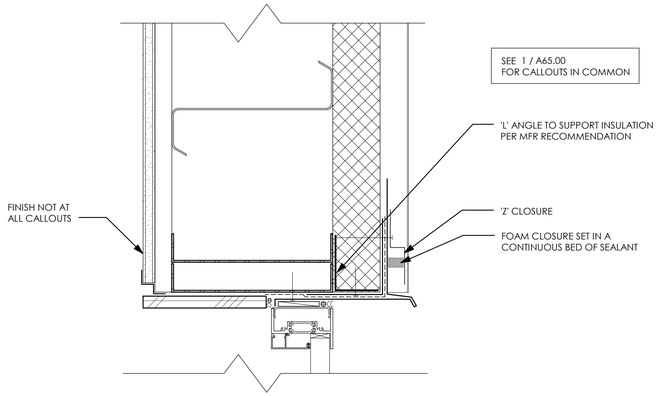
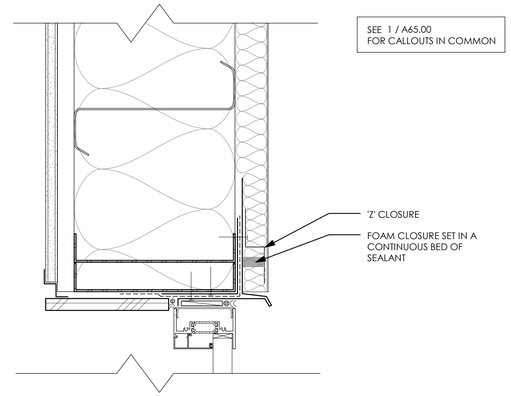
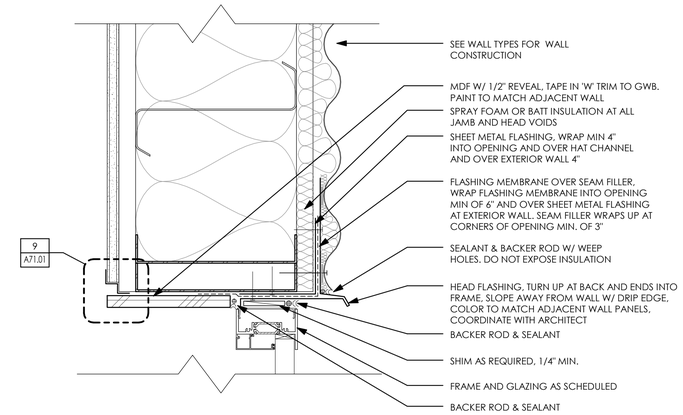


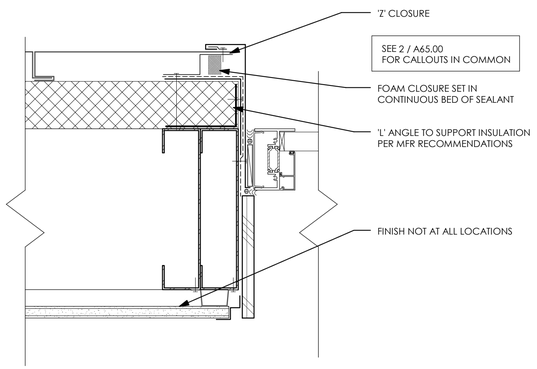
7 SF HEAD @ VERTICAL METAL SIDING
3" = 1'-0"



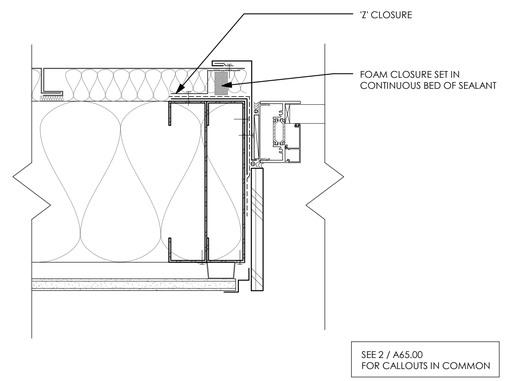
4 SF HEAD @ VERTICAL METAL SIDING
3" = 1'-0"



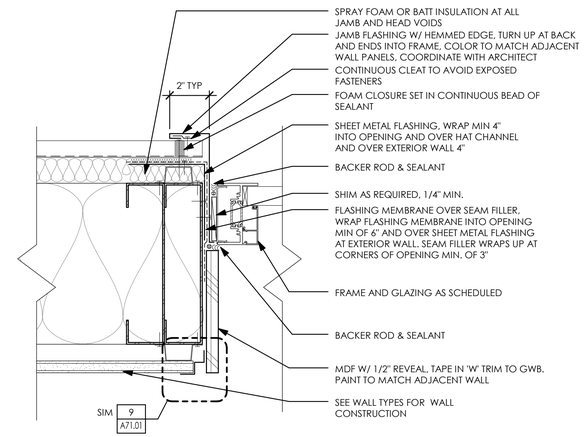
1 SF HEAD @ HORIZONTAL METAL SIDING
3" = 1'-0"



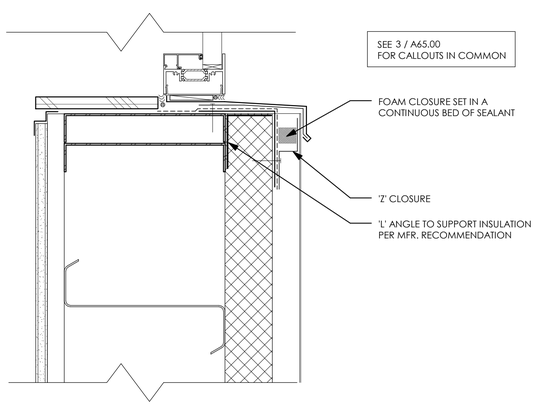
8 SF JAMB @ VERTICAL METAL SIDING
3" = 1'-0"



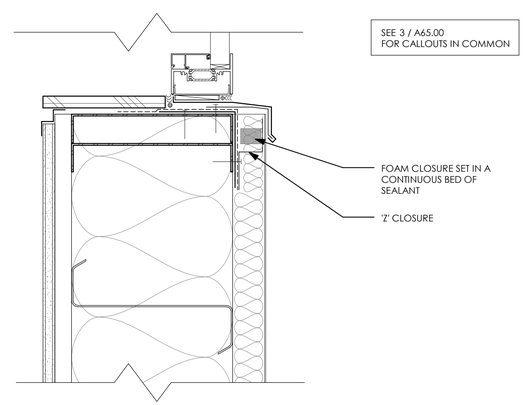
5 SF JAMB @ VERTICAL METAL SIDING
3" = 1'-0"



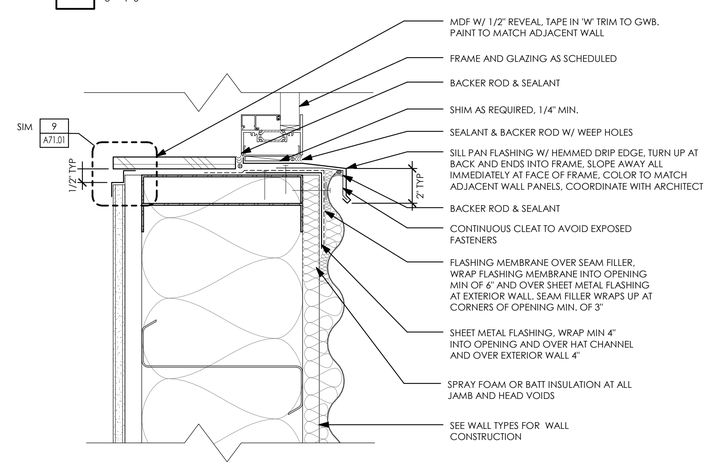
2 SF JAMB @ HORIZONTAL METAL SIDING
3" = 1'-0"



9 SF SILL @ VERTICAL METAL SIDING
3" = 1'-0"



6 SF SILL @ VERTICAL METAL SIDING
3" = 1'-0"



3 SF SILL @ HORIZONTAL METAL SIDING
3" = 1'-0"

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RANDAL J. COOK
STATE OF WASHINGTON

BID SET

Project Title
JEFFERSON TRANSIT AUTHORITY

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Project Numbers
2013-006

FTA PROJECT NUMBER: WA-0180-02

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EXTERIOR ALUMINUM FRAME DETAILS

Drawn By MR
Checked By MH

Sheet Number
A65.00

Sheet Number 186 Of 203

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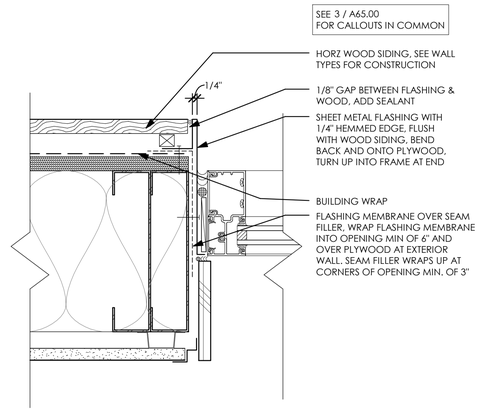
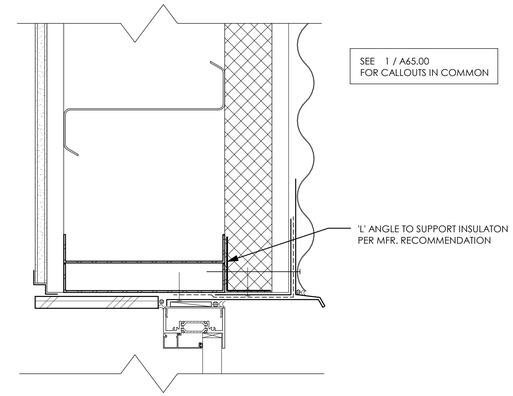


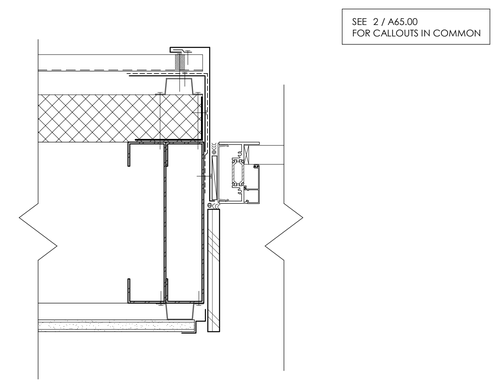
4 SF JAMB @ HORIZONTAL WOOD SIDING

3" = 1'-0"



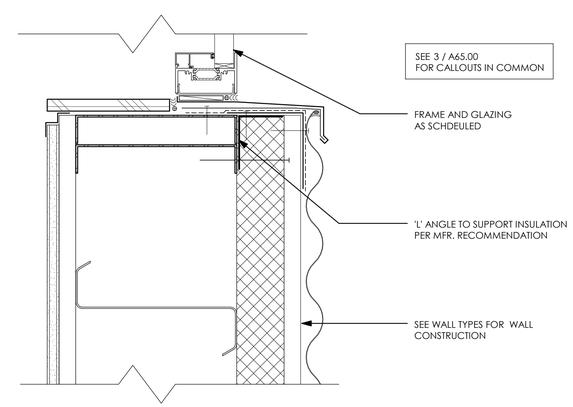
1 SF HEAD @ HORIZONTAL METAL SIDING

3" = 1'-0"



2 SF JAMB @ HORIZONTAL METAL SIDING

3" = 1'-0"



3 SF SILL @ HORIZONTAL METAL SIDING

3" = 1'-0"

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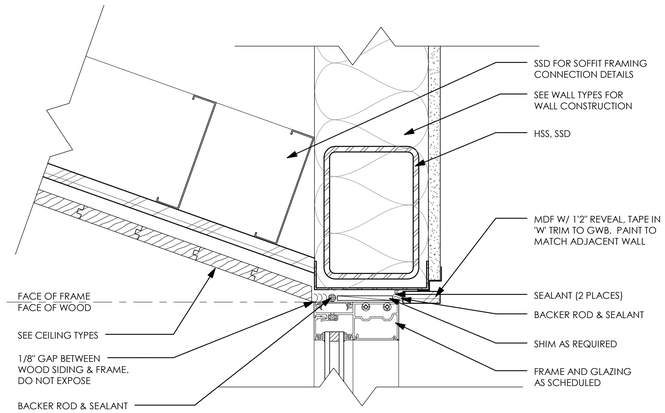
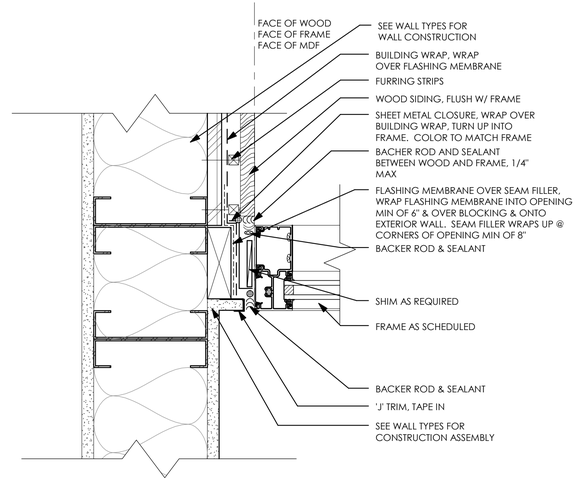


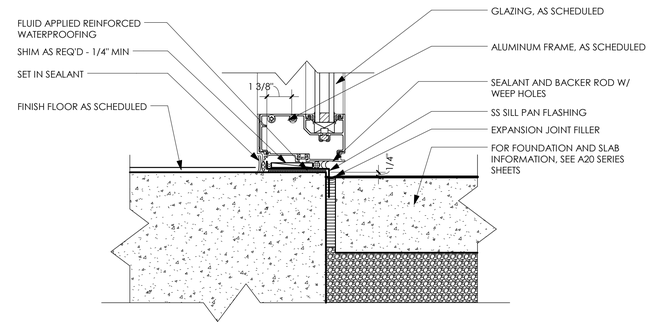
7 SF HEAD @ GWB WALL & WOOD CEILING - ENTRY

3" = 1'-0"



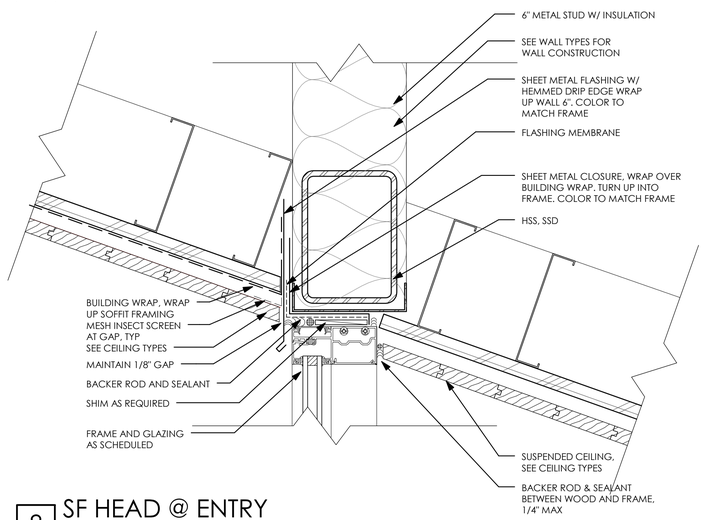
4 SF JAMB @ WOOD & GWB

3" = 1'-0"



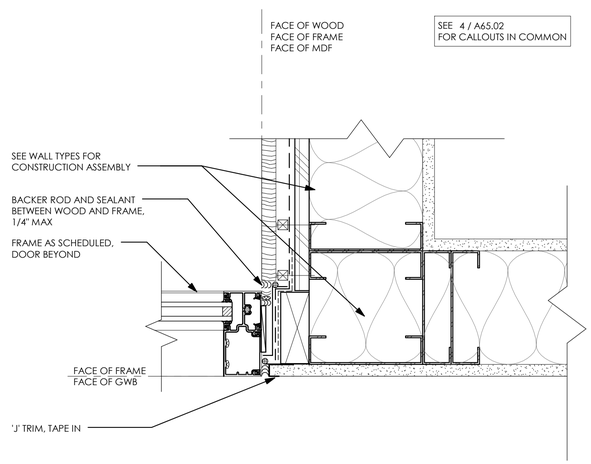
1 SF SILL @ FLOOR

3" = 1'-0"



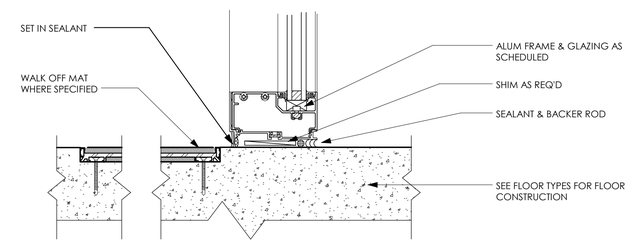
8 SF HEAD @ ENTRY

3" = 1'-0"



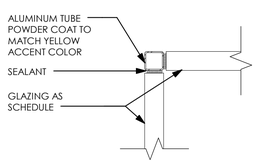
5 SF JAMB @ WOOD AND GWB CORNER

3" = 1'-0"



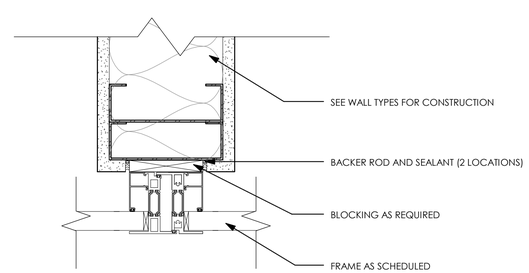
2 INTERIOR SF SILL @ FLOOR

3" = 1'-0"



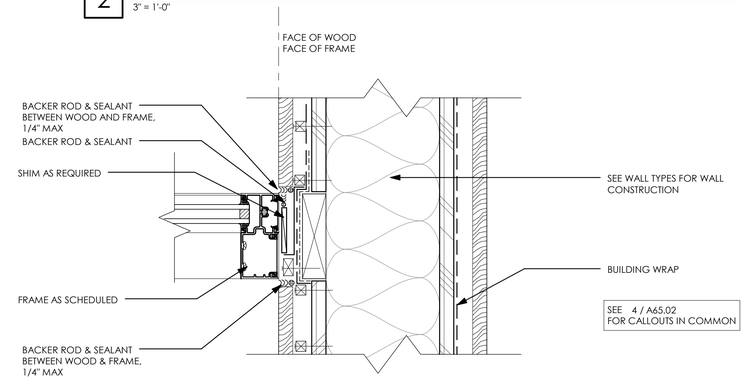
9 GLAZING CORNER DETAIL

3" = 1'-0"



6 SF JAMB @ WALL CONDITION

3" = 1'-0"



3 SF JAMB @ WOOD ENDWALL

3" = 1'-0"

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BID SET

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Project Numbers
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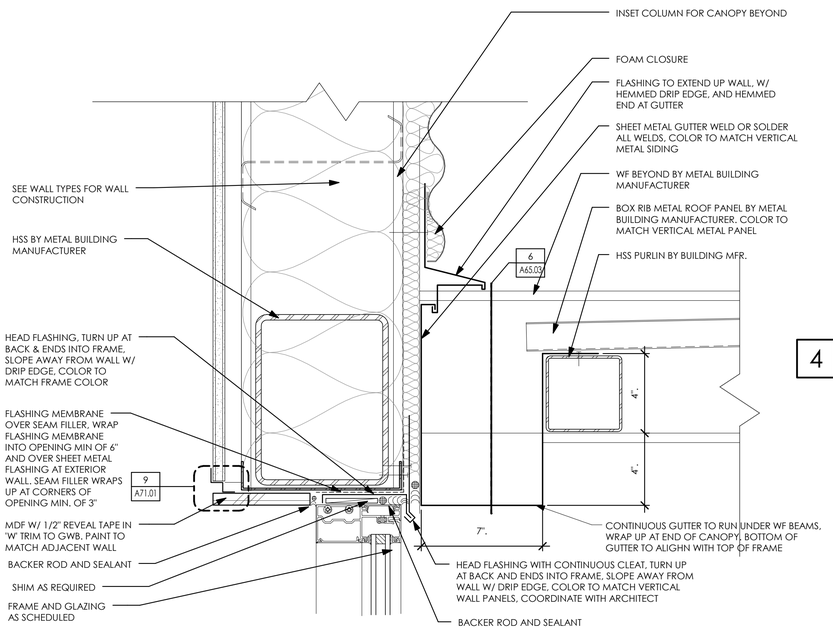
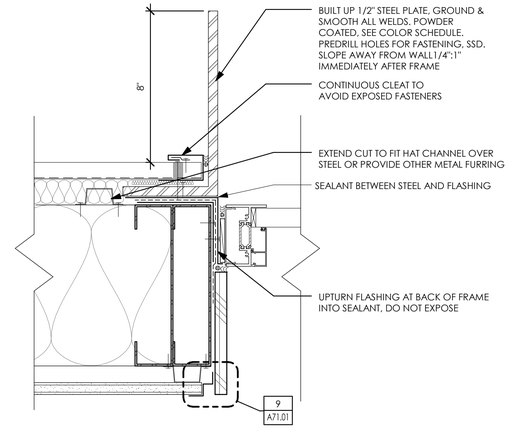
ALL ELEMENTS OF CANOPY ARE TO BE PAINTED TO MATCH COLOR OF VERTICAL METAL SIDING



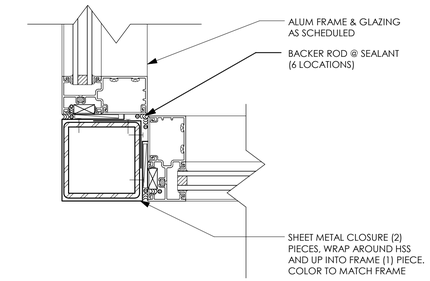
7 SF HEAD @ HORIZONTAL METAL SIDING W/ CANOPY

3" = 1'-0"



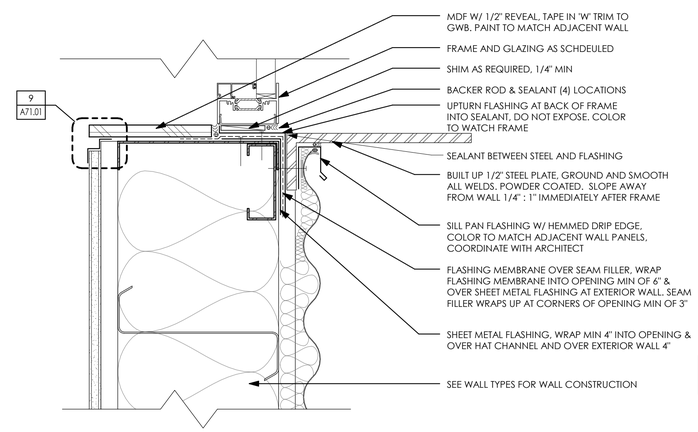
4 WINDOW PORTAL JAMB @ HORIZONTAL METAL SIDING

3" = 1'-0"



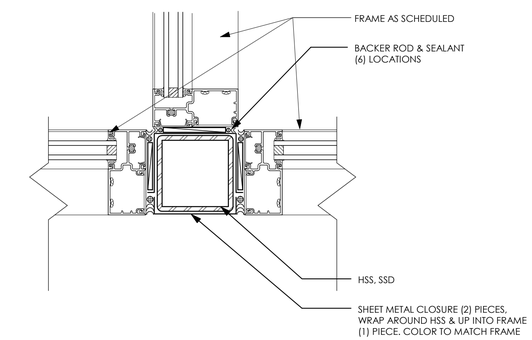
1 SF CORNER @ ENTRY STOREFRONT

3" = 1'-0"



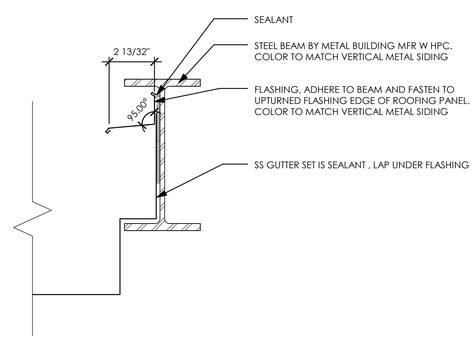
5 WINDOW PORTAL SILL @ HORIZONTAL METAL SIDING

3" = 1'-0"



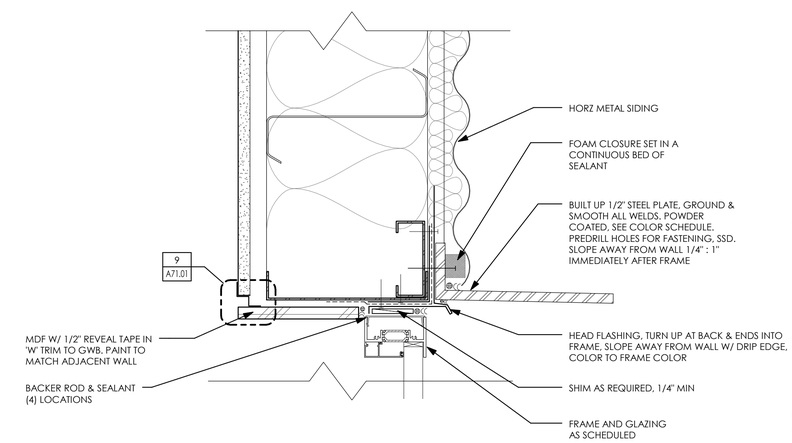
2 SF JAMB @ LOBBY TRANSITION

3" = 1'-0"



6 TYPICAL RAKE AT CANOPY, GUTTER

3" = 1'-0"



3 WINDOW PORTAL HEAD @ HORIZONTAL METAL SIDING

3" = 1'-0"

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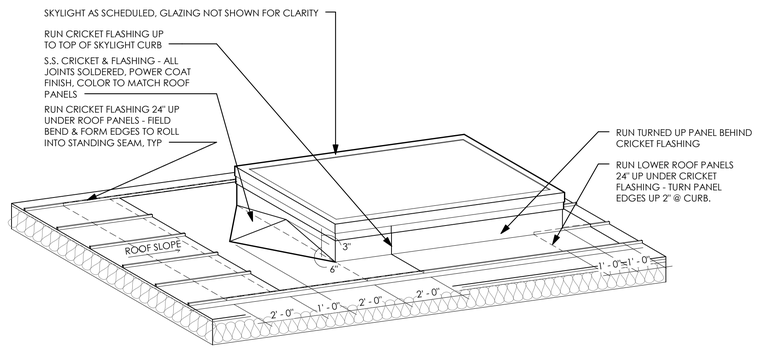
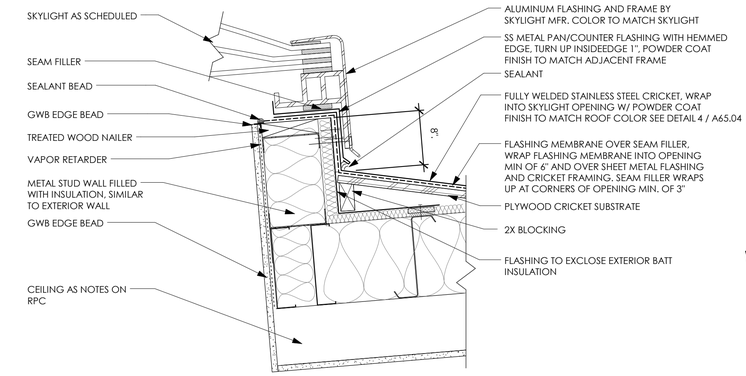


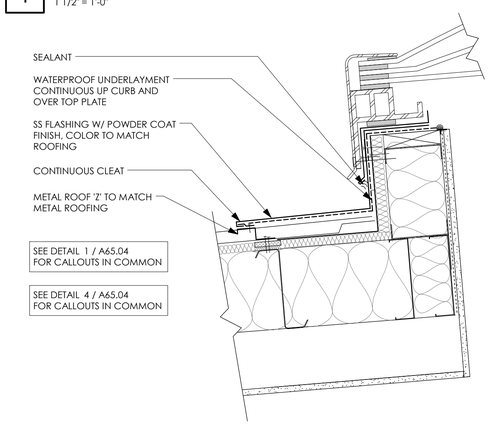
4 PERIMETER FLASHING ISOMETRIC VIEW

3/8" = 1'-0"



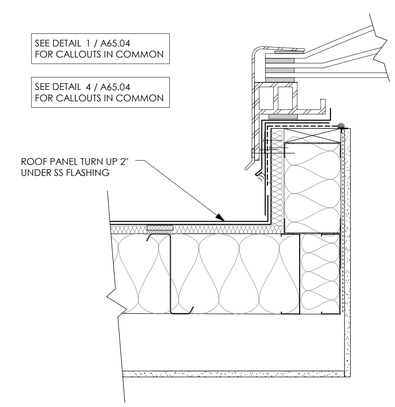
1 BUBBLE SKYLIGHT @ HEAD

1 1/2" = 1'-0"



2 BUBBLE SKYLIGHT @ SILL

1 1/2" = 1'-0"



3 BUBBLE SKYLIGHTS @ JAMB

1 1/2" = 1'-0"

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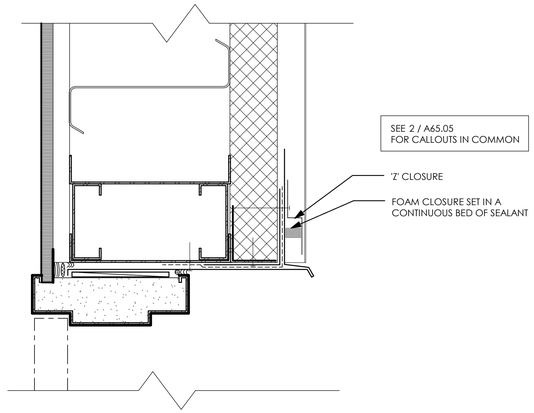
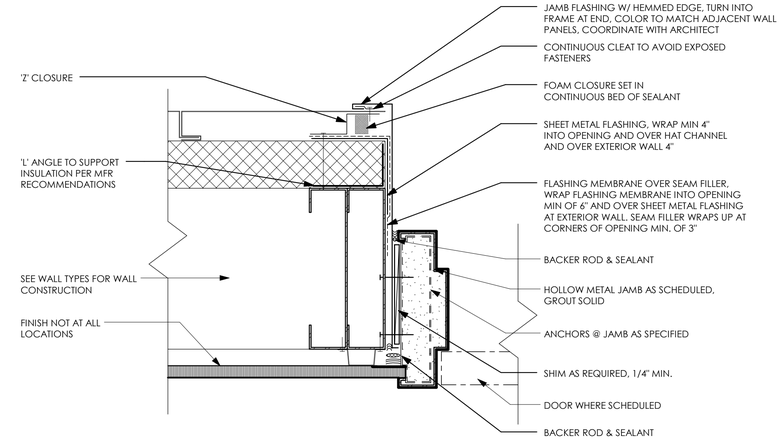


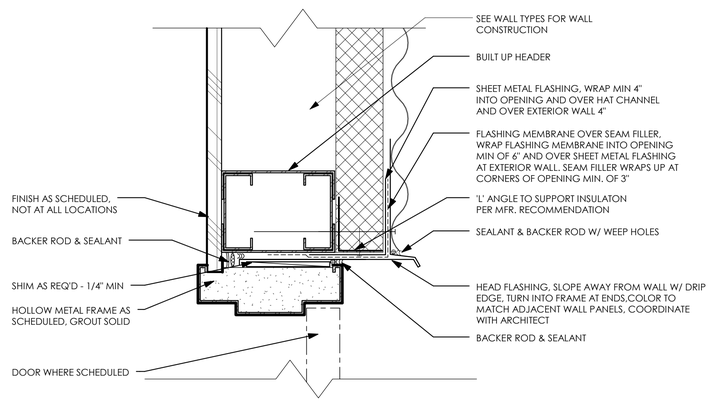
4 HM HEAD @ VERTICAL METAL PANEL MTNC

3" = 1'-0"



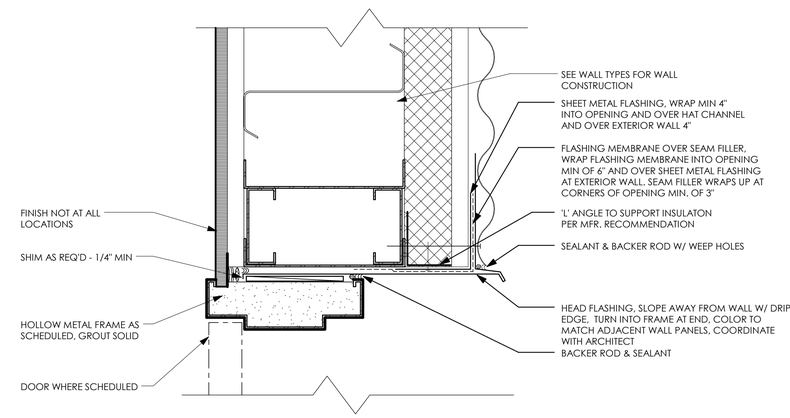
1 HM JAMB @ VERTICAL METAL SIDING MTNC

3" = 1'-0"



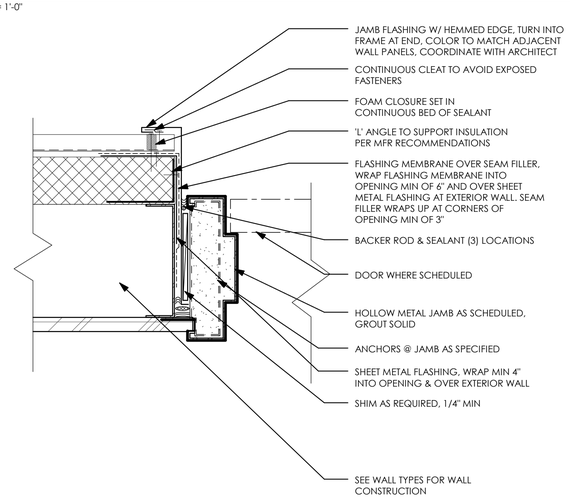
5 HM HEAD @ BLDG D

3" = 1'-0"



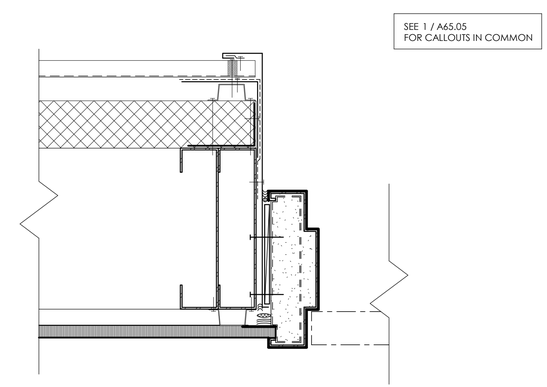
2 HM HEAD @ HORIZONTAL METAL PANEL MTNC

3" = 1'-0"



6 HM JAMB @ BLDG D

3" = 1'-0"



3 HM JAMB @ HORIZONTAL METAL SIDING MTNC

3" = 1'-0"

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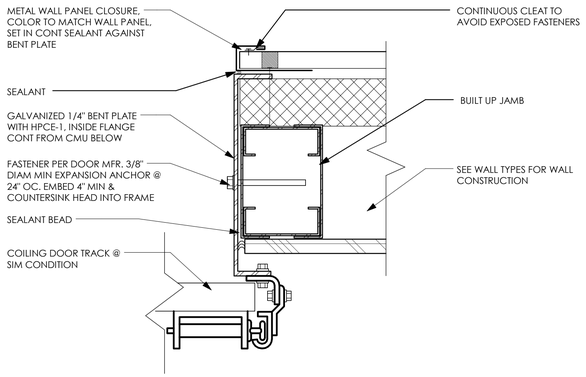
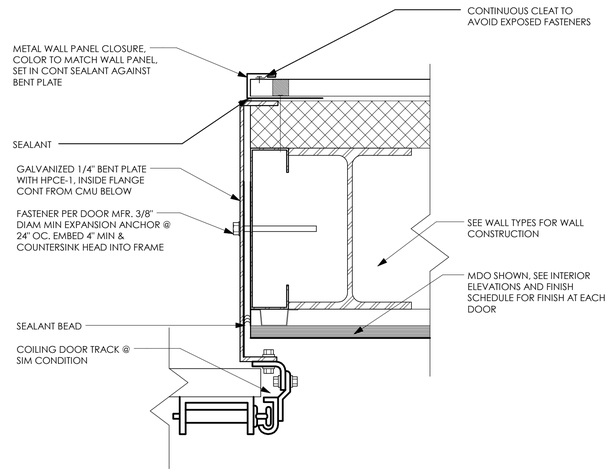
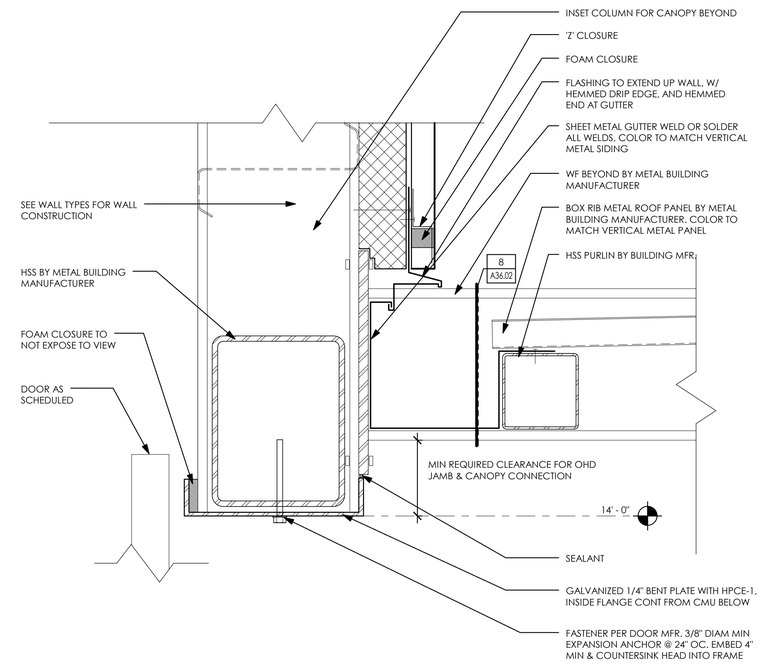


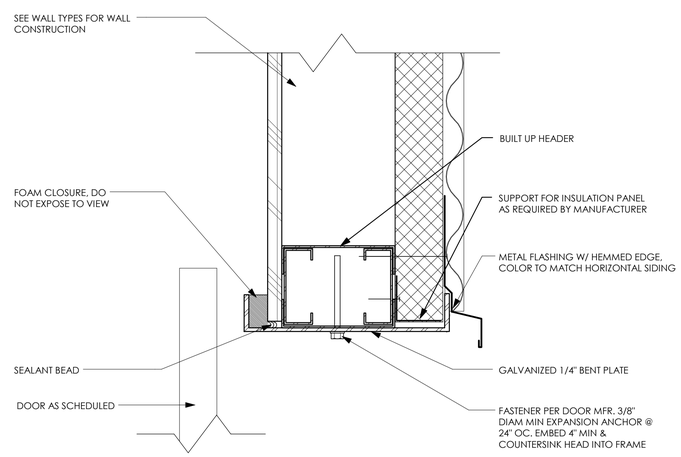
5 OH DOOR JAMB @ BLDG D
3" = 1'-0"



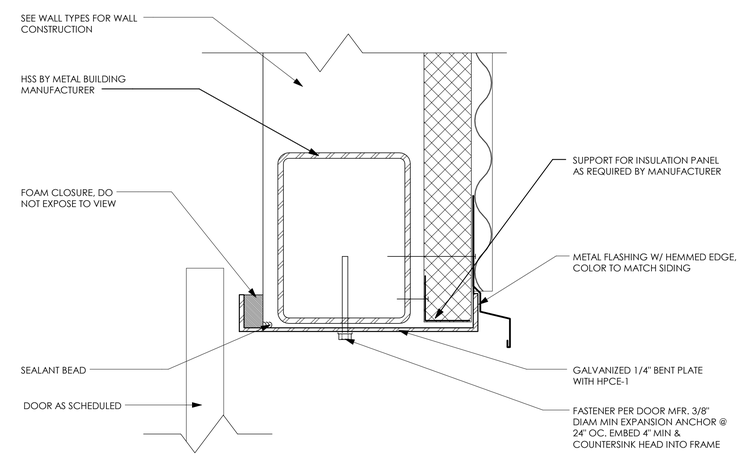
3 OH DOOR JAMB @ VERT/HORZ METAL PANEL
3" = 1'-0"



1 65 - OH DOOR HEAD @ VERTICAL METAL SIDING W/ CANOPY
3" = 1'-0"



4 OH DOOR HEAD @ BLDG D
3" = 1'-0"



2 OH DOOR HEAD @ HORIZONTAL METAL PANEL
3" = 1'-0"

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Project Title
JEFFERSON TRANSIT AUTHORITY

63 FOUR CORNERS RD
PORT TOWNSEND, WASHINGTON 98368

Project Numbers
2013-006

FTA PROJECT NUMBER: WA-0180-02

Issue & Revision Dates

08 07 13	100% SD
11 04 13	100% DD
12 30 13	AGENCY SET
02 05 13	BID SET

Sheet Title
OVERHEAD SECTIONAL DOOR FRAME DETAILS

Drawn By MR
Checked By MH

Sheet Number
A65.06

Sheet Number 192 Of 203

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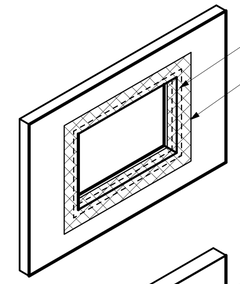
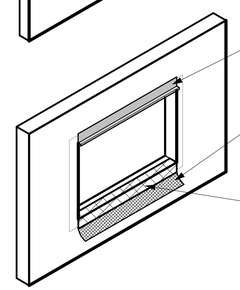
STEP 1



APPLY SEAM FILLER TO INSIDE CORNERS OF ROUGH OPENING.

APPLY FLASHING MEMBRANE 6" INTO OPENING & 6" MIN ON WALL SUBSTRATE BEYOND OPENING.

STEP 2

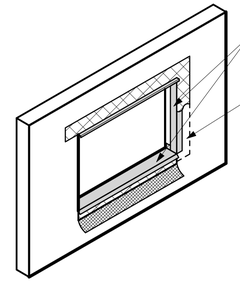


INSTALL HEAD FLASHING. SET IN BEAD OF WET SEAM FILLER.

INSTALL TRANSITION SHEET INTO WET BEADS OF FLASHING MEMBRANE. LEAVE 6" OVERHANG ONTO VERTICAL WALL & WRAP 3" MIN INTO OPENING.

APPLY FLASHING MEMBRANE OVER SILL & TOP HALF OFF VERTICAL PORTION OF TRANSITION SHEET.

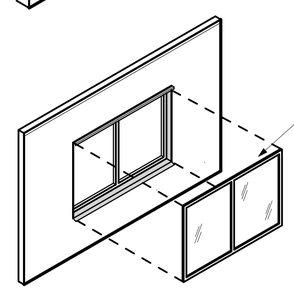
STEP 3



INSTALL SILL FLASHING. INSTALL JAMB FLASHING, TUCK INSIDE SILL PAN FLASHING. SET IN BEADS OF WET SEAM FILLER.

APPLY LAYER OF FLASHING MEMBRANE OVER HEAD & JAMB FLASHING. CONTINUE OUT ONTO WALL 6" MIN.

STEP 4



INSTALL ALUM FRAME & GLAZING. SET IN SEALANT. SHIM AS REQ'D - 1/4" MIN.

GENERAL NOTES:
1. REFER TO EXTERIOR WALL TYPES (SHEETS A30.00 & A30.01) FOR LOCATION OF INSULATION IN WALL ASSEMBLY

5617 REGISTERED ARCHITECT
RANDAL J. COOK
STATE OF WASHINGTON

BID SET

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MISC OPENING DETAILS

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Checked By: RC

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ROOM FINISHES										
ROOM		FLOOR		BASE		WALL FINISH				
NO.	NAME	MAT	FIN	MAT	FIN	N	E	S	W	NOTES / REMARKS
A100a	VESTIBULE	FMF/C	FF/P	WD	ST	-	-	-	WD	STAIN TO MATCH EXTERIOR WOOD
A100b	LOBBY	C	P	MDF	PT	GBL	GBL	GBL	GBL	
A100c	HALLWAY	C	P	MDF	PT	GBL	GBL	GBL	GBL	
A101	RECEPTION	C	P	MDF	PT	GBL	GBL	GBL	GBL	
A102	TLT	C	P	RB	FF	PL	PL	PL	PL	TO 7'-0" AFF, GWO ABOVE - CT @ WALLS & FLOOR PER AA-4
A103	MOBILITY COORDINATOR	CPT	FF	MDF	PT	GBL	GBL	GBL	GBL	
A104	BOARD ROOM	CPT	FF	MDF	PT	GBL	GBL	GBL	GBL	
A104a	AV STORAGE	CPT	FF	MDF	PT	GBL	GBL	GBL	GBL	
A104b	CHAIR STOR	CPT	FF	MDF	PT	GBL	GBL	GBL	GBL	
A104c	STORAGE	CPT	FF	MDF	PT	GBL	GBL	GBL	GBL	
A105	OPERATIONS MANAGER	CPT	FF	MDF	PT	GBL	GBL	GBL	GBL	
A106	GRANTS / PROCUREMENT / IT	CPT	FF	MDF	PT	GBL	GBL	GBL	GBL	
A107	FINANCE AND HR	CPT	FF	MDF	PT	GBL	GBL	GBL	GBL	
A108	EXEC ASSIST. / CLERK OF THE BOARD	CPT	FF	MDF	PT	GBL	GBL	GBL	GBL	
A109	GENERAL MANAGER	CPT	FF	MDF	PT	GBL	GBL	GBL	GBL	
A110	OFFICE	CPT	FF	MDF	PT	GBL	GBL	GBL	GBL	
A111	WORK ROOM	CPT	FF	MDF	PT	GBL	GBL	GBL	GBL	
A112	WORKSTATION	CPT	FF	MDF	PT	GBL	GBL	GBL	GBL	
A112b	HALLWAY	CPT	FF	MDF	PT	GBL	GBL	GBL	GBL	
A113	VESTIBULE	C	P	MDF	PT	GBL	GBL	GBL	GBL	
A114	CUSTODIAN	C	P	MDF	PT	GBL	GBL	GBL	GBL	
A115	PAYROLL	CPT	FF	MDF	PT	GBL	GBL	GBL	GBL	
A116	VAULT	CPT	FF	MDF	PT	GBL	GBL	GBL	GBL	
A117	SERVER ROOM	CPT	FF	MDF	PT	PWW	PWW	PWW	PWW	TO 8" AFF, GBL ABOVE
A118	KITCHEN	C	P	MDF	PT	GBL	GBL	GBL	GBL	
A119	COMMONS	C	P	MDF	PT	GBL	GBL	GBL	GBL	HPC ON EXPOSED STEEL,
A119a	HALLWAY	C	P	MDF	PT	GBL	GBL	GBL	GBL	
A119b	HALLWAY	C	P	MDF	PT	GBL	GBL	GBL	GBL	
A120	MEN'S TLT	C	P	RB	FF	PL	PL	PL	PL	TO 7'-0" AFF, GWO ABOVE, CT @ WALLS & FLOORS PER AA-4
A120a	MEN'S SHOWER	CT	CT	CT	FF	CT	CT	CT	CT	TO 7' -0" AFF, GWO ABOVE
A121	WOMEN'S TLT	C	P	RB	FF	PL	PL	PL	PL	TO 7'-0" AFF, GWO ABOVE, CT @ WALLS & FLOORS PER AA-4
A121a	WOMEN'S SHOWER	CT	CT	CT	FF	CT	CT	CT	CT	TO 7' -0" AFF, GWO ABOVE
A123	SUPERVISORS	CPT	FF	MDF	PT	GBL	GBL	GBL	GBL	
A124	DISPATCH	CPT	FF	MDF	PT	GBL	GBL	GBL	GBL	HPC ON EXPOSED STEEL
A125	DRIVERS WINDOW	C	P	MDF	PT	GBL	GBL	GBL	GBL	
A126	MAIL BOX	C	P	MDF	PT	GBL	GBL	GBL	GBL	
A127	LOST AND FOUND	C	P	MDF	PT	GBL	GBL	GBL	GBL	
A128	MAINTENANCE BAY 1	C	CE/CH	C	CE/CH	-	MDO/PT	MDO/PT	MDO/PT	E,S WALLS TO 7'2" AFF EXPOSED INSULATION ABOVE, W WALL TO 7'2" AFF GWB ABOVE, HPC ON EXPOSED STEEL
A129	MAINTENANCE BAY 2	C	CE/CH	C	CE/CH	MDO/PT	MDO/PT	-	MDO/PT	N,E WALLS TO 7'2" AFF EXPOSED INSULATION ABOVE, W WALL TO 7'2" AFF GWB ABOVE, HPC ON EXPOSED STEEL
A129a	HALLWAY	C	CE/CH	C	CE/CH	MDO/PT	-	MDO/PT	MDO/PT	
A130	PARTS ROOM	C	CH	C/MDO	CH/PT	MDO/PT	MDO/PT	MDO/PT	MDO/PT	N,W WALLS TO 7'2" AFF EXPOSED INSULATION ABOVE, E,S WALLS TO 7'2" AFF GWB ABOVE, HPC ON EXPOSED STEEL
A131	PARTS AND MAINTENANCE CLERK	C	CS	MDF	PT	GBL/PT	GBL/PT	GWB/PT	GWB/PT	-
A132	FLEET MANAGER	C	CS	MDF	PT	GBL/PT	GBL/PT	GWB/PT	GWB/PT	-
A133	TLT	C	CS	RB	FF	PL	PL	PL	PL	TO 7'-0" AFF, GWO ABOVE, CT @ WALLS & FLOORS PER AA-4
A134	RESOURCE / KITCHENETTE	C	CE/CH	C/MDF	CE/PT	GBL/PT	GBL/PT	GWB/PT	GWB/PT	-
A135	COMMON WORK	C	CE/CH	C/MDO	CE/PT	MDO/PT	MDO/PT	MDO/PT	MDO/PT	E,S WALLS TO 7'2" AFF EXPOSED INSULATION ABOVE, N,W WALLS TO 7'2" AFF GWB ABOVE, HPC ON EXPOSED STEEL
A136	LUBE ROOM	C	CS	C/MDO	CE/PT	MDO/PT	MDO/PT	MDO/PT	MDO/PT	E,W,S WALLS TO 7'2" AFF EXPOSED INSULATION ABOVE, N WALL TO 7'2" AFF GWB ABOVE, HPC ON EXPOSED STEEL
A137	FACILITIES SHOP	C	CE/CH	C/MDO	CE/PT	MDO/PT	MDO/PT	MDO/PT	MDO/PT	N,E,W WALLS TO 7'2" AFF EXPOSED INSULATION ABOVE, S WALL TO 7'2" AFF GWB ABOVE, HPC ON EXPOSED STEEL
A138	UTILITY ROOM	C	CS	C/MDO	CE/PT	MDO/PT	MDO/PT	MDO/PT	MDO/PT	N,S,W WALLS TO 7'2" AFF EXPOSED INSULATION ABOVE, E WALL TO 7'2" AFF GWB ABOVE, HPC ON EXPOSED STEEL
B101	FUEL LANE	C	CH	-	-	-	-	-	-	HPC ON EXPOSED STEEL
C100	BUS WASH	C	CH	-	-	-	-	-	-	
D101	WASH EQUIP SHED	C	CH	-	-	PWW	PWW	PWW	PWW	

FINISH SCHEDULE LEGEND

ACP	ACOUSTICAL CEILNG PANELS
C	CONCRETE
CB	COVED BASE
CE	CONCRETE WITH EPOXY COATING
CH	CONCRETE HARDENER
CPT	CARPET TILES
CS	CONCRETE W/ CLEAR SEALER
CT	CERAMIC TILE
FF	FACTORY FINISH
FMF	FLOOR MAT AND FRAME
GBL	GYPSUM WALL BOARD W/ LATEX PAINT
GWO	GYPSUM WALL BOARD, WATER RESISTANT, W/ LATEX PAINT
HPC	HIGH PERFORMANCE COATING
MDF	MEDIUM DENSITY FIBERBOARD, PAINT TO MATCH WALL PAINT FLUSH BASE
MDO	MEDIUM DENSITY OVERLAY PANEL
P	POLISHED
PL	PLASTIC LAMINATE
PT	PAINT
PWW	PLYWOOD WAINSCOT, PAINT UNO
RB	4" RUBBER BASE
ST	STAIN
WD	WOOD STRIPPING

DETAIL REFERENCES

6 / A22.01	CERAMIC TILE CONCRETE TRANSITION
2 / A22.01	CONCRETE CARPET TRANSITION
3 / A22.01	WALK-OFF CARPET TRANSITION
5 / A22.01	CERAMIC TILE WALL FLOOR TRANSITION
7 / A22.01	RUBBER BASE
1 / A22.01	FLUSH BASE
4 / A71.01	MDO BASE
3 / A71.01	CONCRETE CURB (1 SIDE)
2 / A71.01	CONCRETE CURB (BOTH SIDES)
4 / A22.01	FLUSH BASE CARPET TRANSITION
6 / A71.01	CERAMIC TILE LAYOUT - ADDITIVE ALTERNATE (AA-2)

FINISH SCHEDULE GENERAL NOTES

A. OTHER NOTES: SEE GENERAL NOTES ON G2 SERIES SHEETS FOR ADDITIONAL INFORMATION.
B. WALL TYPES: SEE FLOOR PLANS ON A2 SERIES SHEETS FOR WALL TYPE CALLOUTS.
C. GENERAL NOTES: SEE FLOOR PLAN GENERAL NOTES ON A2 SERIES SHEETS AND WALL & BUILDING SECTION AND WALL TYPE NOTES ON A30 AND A32 SERIES SHEETS FOR ADDITIONAL INFORMATION.
D. CEILINGS: SEE REFLECTED CEILING PLANS ON A4 SERIES SHEETS FOR CEILING HEIGHTS AND FINISHES AND A42 SERIES SHEETS FOR CEILING DETAILS.
E. FLOOR AND BASE DETAILS: SEE A22 SERIES SHEETS FOR DETAILS NOT SPECIFICALLY REFERENCED HERE.
F. COLOR SCHEDULE: SEE A70 SERIES SHEETS.
G. VARYING FINISH MATERIALS: SEE PLANS AND INTERIOR ELEVATIONS FOR LOCATION AND EXTENT OF MATERIALS AND FINISHES WHERE MORE THAN ONE MATERIAL OR FINISH IS SCHEDULED. ALIGN FACE OF FINISH SURFACES UNLESS NOTED OTHERWISE.
H. BACKING PANELS: PROVIDE PLYWOOD BACKING PANELS FOR TELEPHONE AND ELECTRICAL PANELS AND EQUIPMENT; PAINT WHITE. COORDINATE WITH ELECTRICAL DRAWINGS AND SPECIFICATIONS.
I. ALUMINUM (STOREFRONT, CURTAIN WALL) AND / OR HOLLOW METAL FRAMES : THESE ASSEMBLIES ARE NOT NOTED ON THE ROOM FINISH SCHEDULE. SEE OPENING SCHEDULES FOR SPECIFIC REQUIREMENTS. IF A WALL IS FULLY ONE OF THESE ASSEMBLIES, NO MATERIAL OR FINISH IS NOTED ON THE FINISH SCHEDULE.
J. EXPOSED STRUCTURE AND MISCELLANEOUS STEEL FINISH. ALL EXPOSED STEEL STRUCTURE SHALL BE FINISHED WITH HIGH PERFORMANCE COATING (HPC) WHERE EXPOSED, UNLESS SPECIFICALLY NOTED OTHERWISE. GENERALLY, EXPOSED STEEL STRUCTURE AND MISCELLANEOUS STEEL ARE NOT SCHEDULED ON THE FINISH SCHEDULE.
K. GYPSUM WALL BOARD (GWB) :
   1. ALL GWB SHALL BY TYPE 'X', UNLESS NOTED OTHERWISE. REFERENCE FINISH SCHEDULE AND SPECIFICATIONS FOR SPECIFIC TYPES OF GWB TO BE USED (i.e. WATER RESISTANT).
   2. WATER RESISTANT GWB TO BE USED AT RESTROOMS, TOILET ROOMS, SHOWERS, KITCHEN AND WALL BEHIND OR ADJACENT TO MOP/SERVICE SINKS, AND AS SCHEDULED.
   3. PROVIDE CASING BEADS AT GWB EDGES WHEREVER EDGES TERMINATE AGAINST A DIFFERENT MATERIAL OR AT A REVEAL. PROVIDE CORNER BEADS AT ALL GWB CORNERS, TYPICAL TO ALL SECTIONS OF THIS DRAWING SET.
   4. AT GBL/VWC WALLS, PROVIDE GWB W/ MUD/TAPE FINISH AND WALL PRIMER AS SPECIFIED FOR PREPARATION AT AREAS OF VINYL WALL COVERING, AND FINISHED GYPSUM BOARD WITH LATEX PAINT AT ANY AREAS OF WALL NOT SHOWN AS FULLY COVERED WITH VWC ON THE INTERIOR ELEVATIONS.
L. SEE DRAWINGS AND SPECIFICATIONS FOR ADDITIVE ALTERNATE TYPES AND LOCATIONS.

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NOTE: DRAWING MAY BE REDUCED
0 4' 8' 16'

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INTERIOR FINISH SCHEDULE

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COLOR & MATERIAL SCHEDULE

DIVISION/SECTION	ITEM	MANUFACTURER	COLOR	REMARKS
033519 Concrete Finishing				
033519 Concrete Finishing	Polished Concrete	Permashine	Natural	As selected by Architect from manufacturer's full range of colors.
051200 Structural Steel / 05210 Steel Joists				
051200 Structural Steel / 05210 Steel Joists	Exterior Structural Steel, Connectors, Bolts, Angles, etc.		HPCE at Exterior HPCI at Interior	See 099600, High Performance Coatings, below
051200 Structural Steel / 05210 Steel Joists	Interior Structural Steel, Connectors, Bolts, Angles, etc.		HPCI at Interior	See 099600, High Performance Coatings below
053100 Steel Deck				
053100 Steel Deck	Exterior Canopy Roof Deck		HPCE-1	
055000 Metal Fabrications				
055000 Metal Fabrications	Down Spouts and Brackets		HPCE-1	See 099600, High Performance Coatings below
055000 Metal Fabrications	Gutter Spacer Bars		HPCE-1	See 099600, High Performance Coatings below
055000 Metal Fabrications	Gutter Support Brackets		HPCE-1	See 099600, High Performance Coatings below
055000 Metal Fabrications	Metal Bollards		HPCS-1	See 099600, High Performance Coatings below
055000 Metal Fabrications	Steel Sign Posts		Bare Galvanized	
055000 Metal Fabrications	Steel supports for countertops		PTI-1	See 099123, Interior Painting, below.
055300 Gratings				
055300 Gratings	Steel Grating		Bare Galvanized Steel	
061000 Rough Carpentry				
061000 Rough Carpentry	Plywood Backing Panels			Where exposed, paint to match adjacent wall finish
062013 Exterior Finish Carpentry				
062013 Exterior Finish Carpentry	Cedar Siding (Tounge and Groove)			See 099300 Staining and Transparent Finishing, Below
062023 Interior Finish Carpentry				
062023 Interior Finish Carpentry	Cedar Stripping (Tongue and Groove)			See 099300 Staining and Transparent Finishing, Below
062023 Interior Finish Carpentry	Medium Density Fiberboard (MDF)		PTI-1 / PTI-2	See 099123 Interior Painting, Below. Location per Drawings
062023 Interior Finish Carpentry	Medium Density Overlay (MDO)		PTI-1	See 099123 Interior Painting, Below
074213 Metal Wall Panels				
074213 Metal Wall Panels	Accessories including Copings, Flashing and Trim		To Match Adjacent Wall Panels	
074213 Metal Wall Panels	Metal Wall Panels - Horizontal	AEP Span	Bare Zincalume	See Exterior Elevations & Details for locations of profiles and colors
074213 Metal Wall Panels	Metal Wall Panels - Vertical	AEP Span	Cool Weathered Copper	See Exterior Elevations & Details for locations of profiles and colors
076200 Sheet Metal Flashings and Trim				
076200 Sheet Metal Flashings and Trim	Aluminum Louver Openings		To match adjacent wall panels,UNO	At Heads, Jambs & Sills
076200 Sheet Metal Flashings and Trim	Aluminum Storefront Flashings		To match adjacent wall panels, UNO	At Heads, Jambs & Sills
076200 Sheet Metal Flashings and Trim	Fascia, Flashing, Trim, Gutters	AEP Span (color ref)	To match adjacent wall panels, UNO	As indicated on drawings and details
079200 Sealants				
079200 Sealants	Exposed Sealants			As selected by Architect during Construction
081113 Hollow Metal Doors & Frames				
081113 Hollow Metal Doors & Frames	Doors and Frames		HPCE-1, HPCI-1, HPCI-2	See 099600 High Performance Coatings. See door schedule for locations.
081416 Flush Wood Doors				
081416 Flush Wood Doors	Solid Core Flush Wood Doors	VT Industries	White Oak, Rift Cut	As selected by architect from Manufacturers range of finishes and grain type
083113 Access Doors & Frames				
083113 Access Doors & Frames	Access Doors & Frames		Paint to match adjacent wall color, UNO	See 099123 Interior Painting
083613 Sectional Doors				
083613 Sectional Doors	Doors, Frames and Accessories		HPCE-1	Glazing and Spandrel Panel as noted on door schedule
084113 Aluminum Framed Entrances and Storefronts				
084113 Aluminum Framed Entrances and Storefronts	Doors	EFCO	Clear Anodized	
084113 Aluminum Framed Entrances and Storefronts	Framing Systems	EFCO	Clear Anodized	
085653 Transaction Window				
085653 Transaction Window	Framing System	CR Laurence Co. Inc	HPCI-2	
086200 Unit Skylights				
086200 Unit Skylights	Unit Skylight	Crystalite Inc.	Mfr's standard black	
087100 Finish Hardware				
087100 Finish Hardware	Hardware			See Specifications for Hardware Finishes
088000 Glazing				
088000 Glazing	Spandrel Panels		Color to Match PTI-2	
089000 Louvers and Vents				
089000 Louvers and Vents	Louvers	C/S Group	Paint to match adjacent wall panel	Louvers in Horizontal Metal Panel Siding
089000 Louvers and Vents	Louvers	C/S Group	Paint to match adjacent wall panel	Louvers in Vertical Metal Panel Siding
089520 Sunshades				
089520 Sunshades	Aluminum Sunshades	EFCO	HPCE-1	All componets
093000 Tiling				
093000 Tiling	Backsplash Tile - Color "A"	Daltile	Modern Dimensions, D182 Suede Gray	
093000 Tiling	Backsplash Tile - Color "B"	Datile	Modern Dimensions, D617 Arctic White	
093000 Tiling	Backsplash Tile - Color "C"	Interstyle	Glass Hues, Pond Green, Glossy	
093000 Tiling	Floor Tile	Bellavita Tile	Rivergrass, Wild Oats	
093000 Tiling	Grout at Backsplash Tile	Laticrete	89 Smoke Grey	
093000 Tiling	Grout at Floor and Wall Tile	Laticrete	90 Light Pewter	
093000 Tiling	Wall Tile	Daltile	Spark, Toasted Luster (12"x24")	See 123200 section for base bid wainscot material
095113 Acoustical Panel Ceilings				
095113 Acoustical Panel Ceilings	Acoustic Ceiling Panels	Armstrong	White	
095113 Acoustical Panel Ceilings	Infinity Perimeter Trim	Chicago Metallic	White	
095113 Acoustical Panel Ceilings	Metal Suspension System	Armstrong	White	
095426 Linear Wood Ceilings				
095426 Linear Wood Ceilings	Infinity Perimeter Trim	Chicago Metallic	Black, to match suspension system	
095426 Linear Wood Ceilings	Linear Wood Ceiling	9Wood	FCS Pacific Albus, Stain STE-1	See 099300 Staining and Transparent Finishing
095426 Linear Wood Ceilings	Metal Suspension System	Armstrong	Black	
096513 Resilient Base & Accessories				
096513 Resilient Base & Accessories	Rubber Base and Transition Strips	Roppe	178 Pewter	
096813 Carpet				
096813 Carpet	Carpet Tile	Shaw	Ingrain Tile 59339, Alder	Ashlar installation pattern
099113 Exterior Painting				
099113 Exterior Painting				See 099600 High Performance Coatings
099123 Interior Painting				
099123 Interior Painting	Field Color	Sherwin Williams	SW7006, Extra White	Typical Wall, MDF base, MDF wainscot and Soffit Paint (Unless Noted Otherwise below or on Interior Elevations, Reflected Ceiling Plans or Details).
099123 Interior Painting	PTI-1	Sherwin Williams	Match Field Color listed above	Access Doors and Frames, Sprinkler Piping Lines, Mechanical Diffusers and Grilles (Field Paint at Accent Walls and Ceilings only)

COLOR & MATERIAL SCHEDULE

DIVISION/SECTION	ITEM	MANUFACTURER	COLOR	REMARKS
099123 Interior Painting	PTI-2	Sherwin Williams	SW6905 Gold Finch	See Interior Elevations
099300 Staining and Transparent Finishing				
099300 Staining and Transparent Finishing	Stain (Exterior) STE-1	Sikkens (Cetol 1 and Cetol 23 Plus)	085 Teak	Exterior Wood Siding, Interior Wood Siding(Vestibule), Linear Wood Ceilings(AA-2), apply to all 6 sides
099300 Staining and Transparent Finishing	Stain (Interior) STI-1	Sikkens (Cetol 1 and Cetol 23 Plus)	009 Dark Oak	Reception Desk and Kitchen Island Wood Stripping
099600 High Performance Coatings				
099600 High Performance Coatings	HPCE - High Performance Coatings: Exterior			
099600 High Performance Coatings	HPCE-1	Tnemec	To Match AEP Span Cool Weathered Copper	Exposed Canopy Framing with Associated Bolts, Connectors and Angles. Exterior Hollow Metal Doors and Frames. Exposed Structural Steel columns and beams with Associated Bolts, Connectors and Angles. Exterior aluminum signage. See also Details for Related Color Callouts.
099600 High Performance Coatings	HPCE-2	Tnemec	To Match Sherwin Williams SW6905 Goldfinch	Portal Frame at exterior windo, South Elevation
099600 High Performance Coatings	HPCI - High Performance Coatings: Interior			
099600 High Performance Coatings	HPCI-1	Tnemec	To Match AEP Span Cool Weathered Copper	At "Shop" area: Exposed Structural Steel beams & columns with associated bolts, connectors and angles. Hollow Metal Doors and Frames. See also Details for related color callouts.
099600 High Performance Coatings	HPCI-2	Tnemec	To Match SW7009, Extra White	At "Office" area: Exposed Structural Steel beams & columns with associated bolts, connectors and angles. Hollow Metal Doors and Frames. Exposed metal roof decking, typical. See also Details for related color callouts.
099600 High Performance Coatings	HPCS - High Performance Coatings: Site			
099600 High Performance Coatings	HPCS-1	Tnemec	To Match AEP Span Cool Weathered Copper	Metal Pipe and Tube Steel Bollards at Shop Buildings
101100 Visual Display Surfaces				
101100 Visual Display Surfaces	Glass Markerboard		White	
101400 Signage				
101400 Signage	Dimensional Characters		Aluminum, @ interior Clear Annodized, At exterior HPCE-1	
101400 Signage	Panel Sign Frosted Acrylic		Clear Frosted (P95)	
101400 Signage	Plaque/Panel Colored Acrylic		To match PTI-1	Second Surface Paint
101400 Signage	Plaque/Panel PVC Backer		Black	
101400 Signage	Plaque/Panel Raised Characters		Black	
101400 Signage	Post-Mounted Site Panel Signs	Apco	HPCE-1	Posts and Panel. See details for graphic colors.
102113 Toilet Compartments				
102113 Toilet Compartments	Partition Components	Bradley	Stainless Steel	
102800 Toilet and Bath Accessories				
102800 Toilet and Bath Accessories	Shower Curtain		Grey	
104413 Fire Protection Specialties				
104413 Fire Protection Specialties	Fire Extinguisher Cabinets		Clear Anodized Aluminum	
105113 Metal Lockers				
105113 Metal Lockers	Lockers	Lyon	Monorail Gray GY655-7G	
107500 Flagpoles				
107500 Flagpoles	Mast, Accessories		Clear Anodized Aluminum	
109900 Miscellaneous Specialties and Equipment				
109900 Miscellaneous Specialties and Equipment	Bicycle Rack			
113100 Residential Appliances				
113100 Residential Appliances	Range Hood Canopy	Air King	Stainless Steel	
122113 Horizontal Louver Blinds				
122113 Horizontal Louver Blinds	Aluminum Slats	Bali	True White Gloss	
122413 Roller Window Shades				
122413 Roller Window Shades	Fascia, Trim	Mechoshade	White	
122413 Roller Window Shades	Shade Fabric	Mechoshade	1519 Silver Birch	
123200 Manufactured Wood Casework				
123200 Manufactured Wood Casework	Cork Board	Forbo	2182	Steel Frame only when applied to wall, Entry Lobby wall and Commons Wall, No frame when at Reception Desk
123200 Manufactured Wood Casework	Door and Drawer Pulls		Brushed Nickel	See Specs
123200 Manufactured Wood Casework	Edgebanding		To match plastic laminate	To be selected by Architect
123200 Manufactured Wood Casework	Grommet, Color 'A'		Architect to select from Manufactures standard colors.	At solid surface countertops
123200 Manufactured Wood Casework	Plastic Laminate Cabinets (PL-1)	Formica	912 Storm, Gloss Finish	Cabinet Bases (Vertical Surfaces) & Doors.
123200 Manufactured Wood Casework	Plastic Laminate Cabinets (PL-2)	Formica	7197-90 Dover White, Gloss Finish	Upper cabinets and doors
123200 Manufactured Wood Casework	Plastic Laminate Wainscot	Wilsonart	4877-38, Grey Mesh	Toilet Room wall wainscot, Base Bid
123200 Manufactured Wood Casework	Solid Surface	Pental Quartz	BQ100P Thassos Polished	
124813 Entrance Floor Mats				
124813 Entrance Floor Mats	Carpet Insert	C/S Group, Pedisystems	9303 Sand Bar	
124813 Entrance Floor Mats	Frame	C/S Group	Clear Anodized Aluminum	
133419 Metal Building Systems				
133419 Metal Building Systems	Flashings and Trim		To match AEP Span Cool Weathered Copper or Bare Zincalum	
133419 Metal Building Systems	Metal Roof Panels		To match AEP Span Cool Weathered Copper	
133419 Metal Building Systems	Structural Steel Framing Exterior		HPCE-1	See 099600 High Performance Coatings
133419 Metal Building Systems	Structural Steel Framing Interior		HPCI-1 (Maintenance Bays/Shop Areas)/HPCI-2 (Office Areas)	See 099600 High Performance Coatings
230000 Mechanical				
230000 Mechanical	Diffusers and Grilles		A - Titus paint, #01 Aluminum	At Exposed, Bare Galvanized Ducts
230000 Mechanical	Diffusers and Grilles		B - Painted to Match Associated Wall or Ceiling	Where located in painted Accent Walls, See Interior Elevations
230000 Mechanical	Exposed Ductwork		Painted to Match Associated Wall	Bare Galvanized except where exposed to view
260000 Electrical				
260000 Electrical	Light Fixtures		See Electrical Drawings and Specifications	
260000 Electrical	Outlets, Coverplates & Switchplates		See Electrical Drawings and Specifications	
323119 Decorative Metal Fences and Gates				
323119 Decorative Metal Fences and Gates	All fencing and related parts		Black	

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Sheet Title
COLOR AND MATERIAL SCHEDULE

Drawn By: HS
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A70.01

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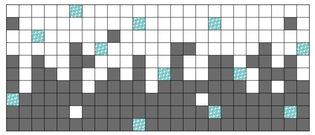
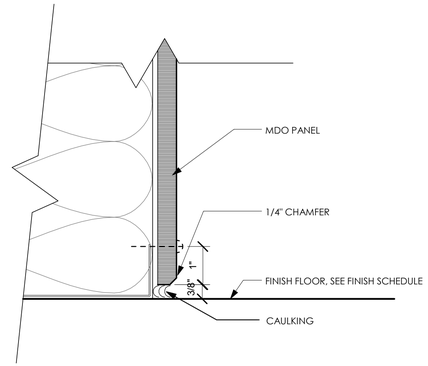


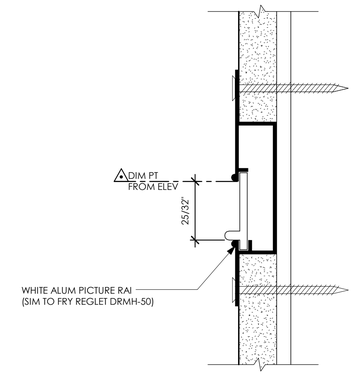
2X2 WHITE TILE
2X2 GRAY TILE
2X2 COLOR GLASS TILE

* ACTUAL DIMENSION MAY VARY SLIGHTLY DEPENDING ON ACTUAL TILE DIMENSIONS

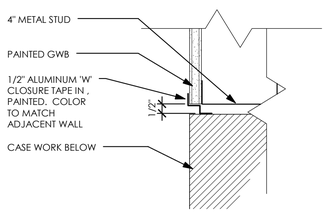
7 TILE BACKSPLASH LAYOUT
1" = 1'-0"



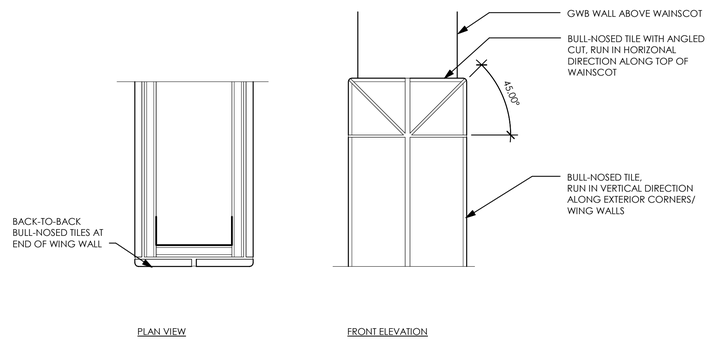
4 MDO BASE (MAINTENANCE SHOPS)
6" = 1'-0"



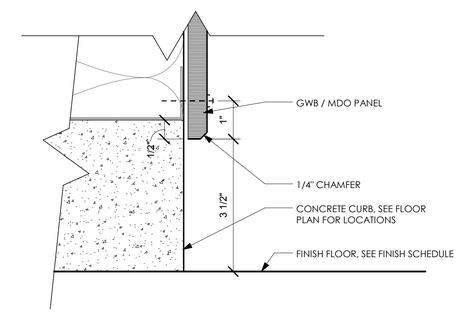
1 PICTURE RAIL DETAIL
12" = 1'-0"



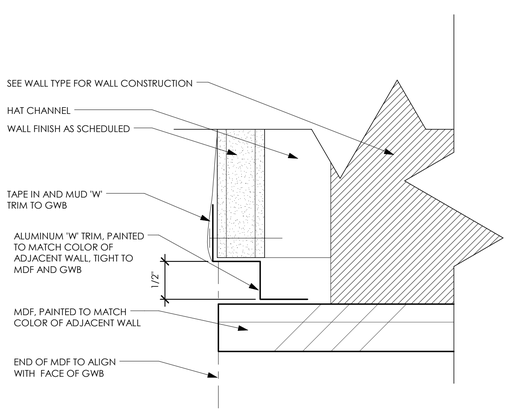
8 WALL ABOVE CASEWORK, TYP
3" = 1'-0"



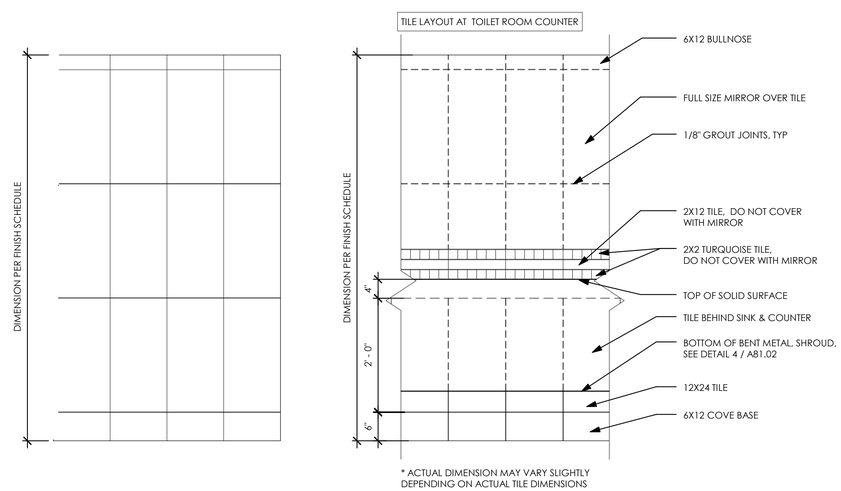
5 TILE AT WING WALL
3" = 1'-0"



2 CONCRETE CURB DETAIL BOTH SIDES
6" = 1'-0"

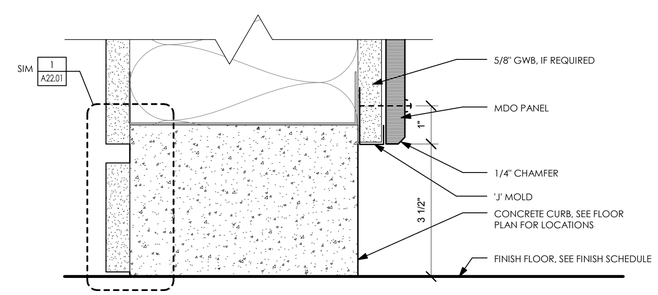


9 MDF/GWB TRANSITION AT OPENING
12" = 1'-0"



* ACTUAL DIMENSION MAY VARY SLIGHTLY DEPENDING ON ACTUAL TILE DIMENSIONS

6 TILE WAINSCOT DETAIL
3/4" = 1'-0"



3 CONCRETE CURB DETAIL
6" = 1'-0"

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INTERIOR DETAILS

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SITE SIGNAGE SCHEDULE						
ROOM NUMBER	SIGN TYPE	SIGN NUMBER	1 SIGN CONTENT	2 SIGN CONTENT	3 SIGN CONTENT	REMARKS
MONUMENT SIGN	H		"Jefferson Transit Authority"	"63 Four Corners Rd Maintenance Operations And Administration Center"		SEE SITE PLAN

EXTERIOR SIGNAGE SCHEDULE						
ROOM NUMBER	SIGN TYPE	SIGN NUMBER	1 SIGN CONTENT	2 SIGN CONTENT	3 SIGN CONTENT	REMARKS
A128	B		"MAINTENANCE BAY 1"	A128		SEE EXTERIOR ELEVATION
A129	B	1	"MAINTENANCE BAY 2"	A129		SEE EXTERIOR ELEVATION
A129	B	2	"MAINTENANCE BAYS"	A129		SEE EXTERIOR ELEVATION
A136	B		"LUBE ROOM"	A136		SEE EXTERIOR ELEVATION
A137	B		"FACILITIES SHOP"	A137		SEE EXTERIOR ELEVATION
A138	B		"UTILITY ROOM"	A138		SEE EXTERIOR ELEVATION
BLDG A	F		"63"			SEE EXTERIOR ELEVATION
BLDG A	G		"Jefferson Transit"			SEE EXTERIOR ELEVATION
D101	B		"WASH EQUIPMENT SHED"	"D101"		SEE EXTERIOR ELEVATION

SIGNAGE SCHEDULE						
ROOM NUMBER	SIGN TYPE	SIGN NUMBER	1 SIGN CONTENT	2 SIGN CONTENT	3 SIGN CONTENT	REMARKS
A100b	I					CAST BUILDING PLAQUE
A101	E		"Jefferson Transit"			
A102	D		P1,P2, P3	"RESTROOM"	"A102"	
A103	A	1	"MOBILITY COORDINATOR"	"NAME"*	"A103"	* NAME TO BE PROVIDED BY OWNER
A103	A	2	"MOBILITY COORDINATOR"	"NAME"*	"A103"	* NAME TO BE PROVIDED BY OWNER
A104	C		"45"			
A104	B	1	"BOARD ROOM"	"A104"		
A104	B	2	"BOARD ROOM"	"A104"		
A105	A		"OPERATIONS MANAGER"	"NAME"*	"A105"	* NAME TO BE PROVIDED BY OWNER
A106	A		"GRANTS / PROCUREMENT / IT"	"NAME"*	"A106"	* NAME TO BE PROVIDED BY OWNER
A107	A		"FINANCE AND HR"	"NAME"*	"A107"	* NAME TO BE PROVIDED BY OWNER
A108	A		"EXEC ASSIST / CLERK OF THE BOARD"	"NAME"*	"A108"	* NAME TO BE PROVIDED BY OWNER
A109	A		"GENERAL MANAGER"	"NAME"*	"A109"	* NAME TO BE PROVIDED BY OWNER
A110	A		"OFFICE"	"NAME"*	"A110"	* NAME TO BE PROVIDED BY OWNER
A111	B		"WORK ROOM"	"A111"		
A114	B		"CUSTODIAN"	"A114"		
A115	A		"PAYROLL"	"NAME"*	"A115"	* NAME TO BE PROVIDED BY OWNER
A116	B		"VAULT"	"A116"		
A117	B		"SERVER ROOM"	"A117"		
A120	D		P1,P2	"MEN"	"A120"	
A121	D		P1,P3	"WOMEN"	"A121"	
A123	A		"SUPERVISOR"	"NAME"*	"A123"	* NAME TO BE PROVIDED BY OWNER
A124	B		"DISPATCH"	"A124"		
A127	B		"LOST AND FOUND"	"A127"		
A130	B		"PARTS ROOM"	"A130"		
A131	A	1	"PARTS & MAINTENANCE CLERK"	"NAME"*	"A131"	* NAME TO BE PROVIDED BY OWNER
A131	A	2	"PARTS & MAINTENANCE CLERK"	"NAME"*	"A131"	* NAME TO BE PROVIDED BY OWNER
A132	A		"FLEET MANAGER"	"NAME"*	"A132"	* NAME TO BE PROVIDED BY OWNER
A133	D		P1,P2, P3	"TOILET"	"A133"	
A134	B		"RESOURCE ROOM"	"A134"		

SIGNAGE SCHEDULE GENERAL NOTES

A. OTHER NOTES: SEE GENERAL NOTES SHEET G2 SERIES SHEETS FOR ADDITIONAL INFORMATION.

B. SIGNAGE LOCATIONS: ALL LOCATIONS FOR SIGNAGE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION. COORDINATE MOUNTING HEIGHTS OF SIGNS WITH INTERIOR ELEVATIONS AND DETAILS.

C. SIGNS BY DOORS: AT SIGNS BY DOORS, PLACE ON THE ENTRY SIDE (SIDE VIEWED AS YOU ENTER THE ROOM) UNLESS NOTED OTHERWISE. SHOW PROPOSED LOCATIONS ON SHOP DRAWINGS FOR ARCHITECT'S REVIEW. FIELD VERIFY WITH ARCHITECT WHERE LOCATION SEEMS IMPROPER OR IS IN CONFLICT.

D. SIGN WORDING AND SPELLING: CONTRACTOR SHALL REVIEW AND VERIFY SPELLING OF EACH SCHEDULED SIGN BEFORE FABRICATION.

E. SITE SIGNAGE: SEE ARCHITECTURAL SITE PLAN SHEETS, CIVIL DRAWINGS AND DETAILS FOR SITE SIGNAGE PLACEMENT AND ADDITIONAL INFORMATION. ALSO SEE A70 SERIES SHEETS.

F. SPACE FOR SIGNAGE: CONTRACTOR TO VERIFY THAT SIGNAGE, AS SCHEDULED, WILL FIT PROPERLY IN SPACE PROVIDED. CONTRACTOR SHALL NOTIFY ARCHITECT AND COORDINATE ANY CHANGES PRIOR TO INSTALLATION.

G. HANDICAPPED ACCESSIBILITY REQUIREMENTS: ALL SIGNAGE SHALL FULLY COMPLY WITH ALL CURRENT HANDICAPPED CODE REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, RAISED LETTERS/SYMBOLS, RAISED PICTOGRAMS AND BRAILLE. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY CODE ISSUES DURING THE SUBMITTAL PROCESS FOR CLARIFICATION.

H. SIGN SIZES: SIGN SIZES ARE APPROXIMATE. PROVIDE CONSISTENT SIZE AS REQUIRED TO ACCOMMODATE SYMBOLS, NUMBERS, LETTERS, ETC., AND TO MEET CODE. NOTE ANY PROPOSED CHANGES IN SHOP DRAWINGS AND REQUEST ARCHITECTS REVIEW.

I. INTERIOR ELEVATIONS: SEE INTERIOR AND EXTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION ON SIGNAGE PLACEMENT.

J. EXIT SIGNS: EXIT SIGNS ARE SHOWN ON ELECTRICAL DRAWINGS.

K. VERIFY W/ ARCHITECT ALL TEXT AND WORDING W/ SHOP DRAWINGS. SIGN CONTENT MAY CHANGE.

PICTOGRAM LEGEND

P1 INTERNATIONAL SYMBOL OF ACCESSIBILITY
P2 INTERNATIONAL SYMBOL FOR MEN
P3 INTERNATIONAL SYMBOL FOR WOMEN

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SIGNAGE SCHEDULE

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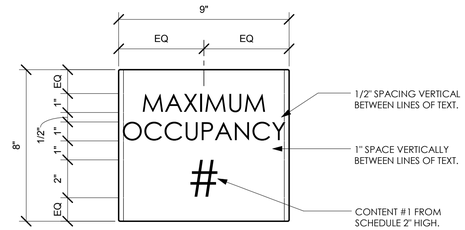
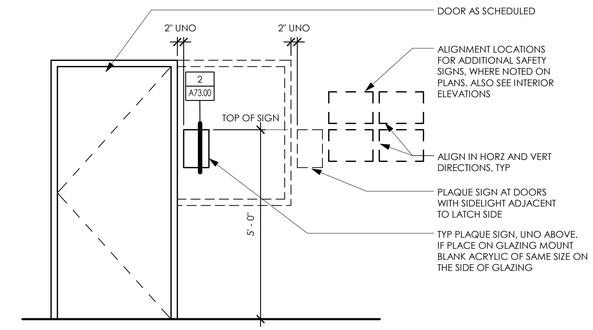
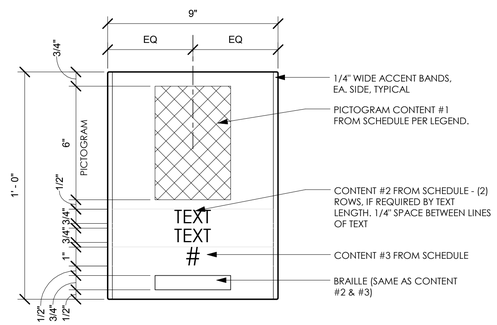


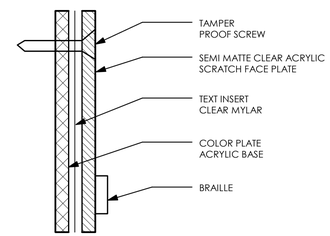
5 SIGN TYPE C
3" = 1'-0"



1 SIGNAGE PLACEMENT DETAIL
1/2" = 1'-0"



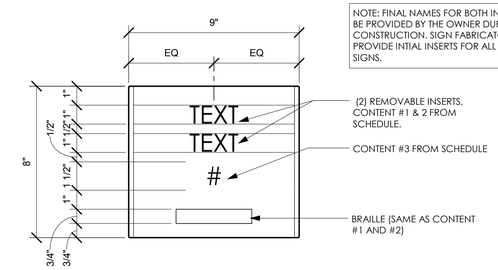
6 SIGN TYPE D
3" = 1'-0"



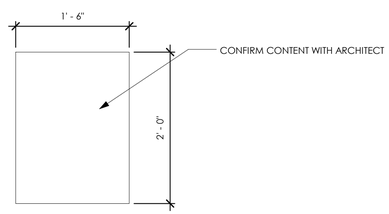
2 SIGN SECTION
1/2" = 1'-0"

7 SIGN TYPE E

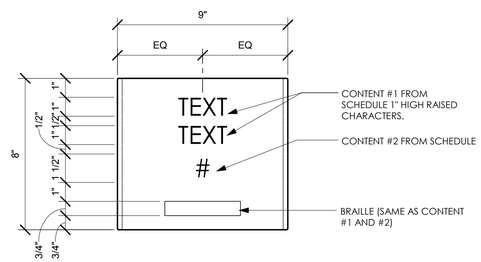
NOTE: FINAL NAMES FOR BOTH INSERTS TO BE PROVIDED BY THE OWNER DURING CONSTRUCTION. SIGN FABRICATOR TO PROVIDE INTIAL INSERTS FOR ALL TYPE 'D' SIGNS.



3 SIGN TYPE A
3" = 1'-0"



8 SIGN TYPE I



4 SIGN TYPE B
3" = 1'-0"

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Sheet Title
SIGNAGE TYPES AND DETAILS

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A73.00

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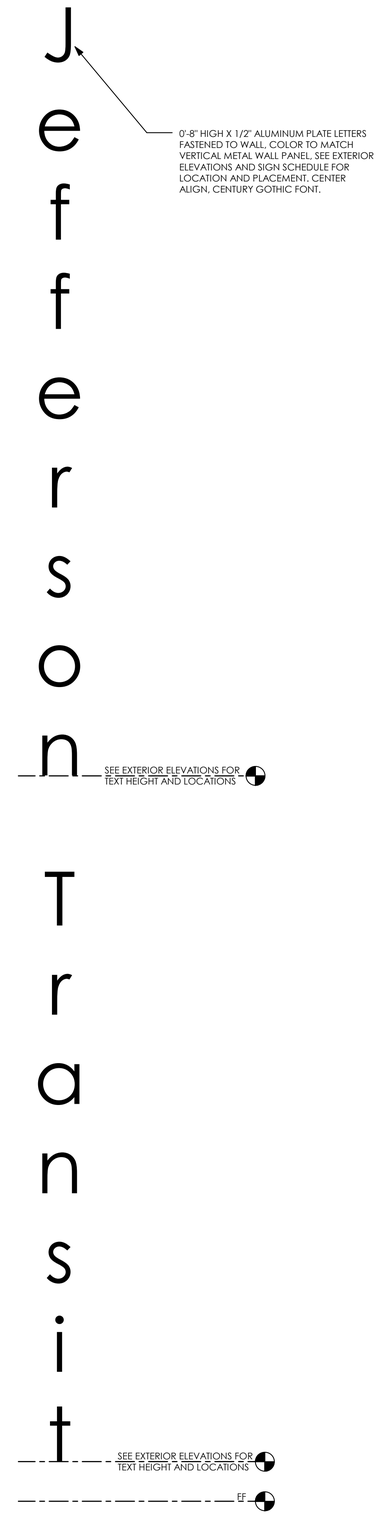
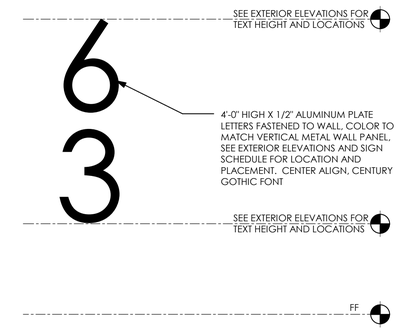
3 SIGN TYPE H

1 1/2" = 1'-0"



2 SIGN TYPE G - PAINTED ALUMINUM LETTERS



1 SIGN TYPE F - PAINTED ALUMINUM LETTERS

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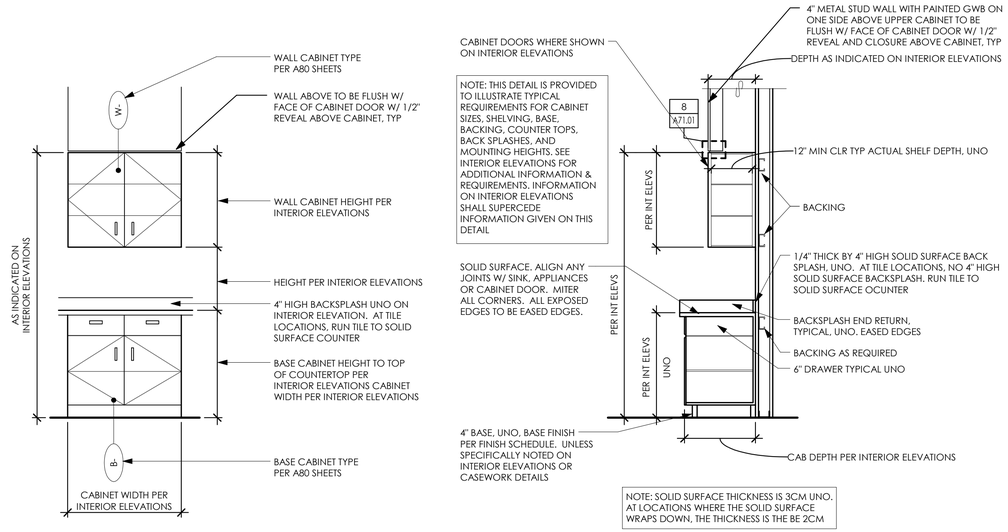
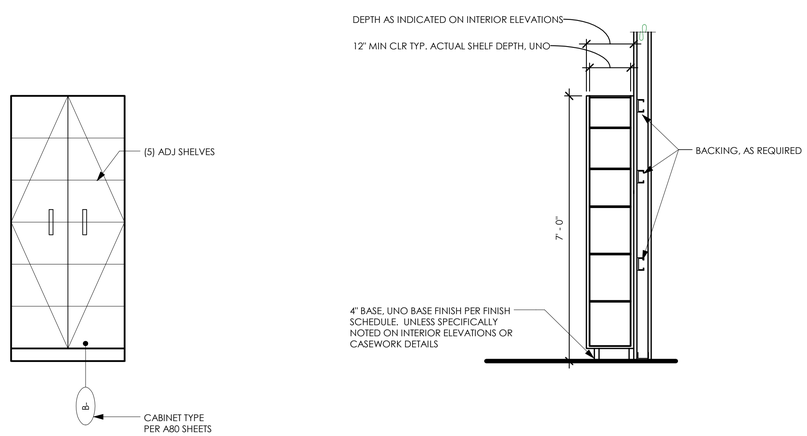


1 TYPICAL CASEWORK ELEVATION & SECTION

1/2" = 1'-0"



2 TYPICAL FULL-HEIGHT CASEWORK

1/2" = 1'-0"

CASEWORK SCHEDULE AND DETAILS GENERAL NOTES

A. OTHER NOTES: SEE GENERAL NOTES ON G2 SERIES SHEETS FOR ADDITIONAL INFORMATION.

B. INTERIOR ELEVATIONS: SEE INTERIOR ELEVATIONS AND FLOOR PLANS FOR CASEWORK.

C. CASEWORK TYPES: ALL CABINETS AND CASEWORK MATERIALS FOR FIXED CABINET TYPES SHALL BE AS SPECIFIED IN DIVISION 12 SECTION "MANUFACTURED WOOD CASEWORK".

D. MANUFACTURER: ALL CASEWORK SHALL BE FROM A SINGLE MANUFACTURER, UNLESS SPECIFICALLY SPECIFIED OTHERWISE.

E. EXPOSED CASEWORK: FINISH ALL EXPOSED PORTIONS OF CASEWORK AND COUNTERTOPS.

F. CASEWORK BASES: BASES ON CASEWORK, AS PROVIDED BY OTHER TRADES ARE TYPICALLY 4" UNLESS OTHERWISE NOTED.

G. CASEWORK DEPTH: "DEPTH" OF CASEWORK SHOWN ON INTERIOR ELEVATIONS OR ON SCHEDULE INDICATES THE NOMINAL DEPTH OF THE CABINET AND NOT THE COUNTERTOP.

H. FILLER PANELS: PROVIDE FILLER PANELS BETWEEN ENDS OF CABINETS AND ADJACENT WALLS AT GAPS OVER 1/4" WIDE, INCLUDING SIDES AND BACKS.

I. CASEWORK BETWEEN WALLS: IN CASE OF CABINET INSTALLATIONS BETWEEN WALLS, VERIFY DIMENSIONS IN FIELD AND PROVIDE FILLER PANEL STRIPS NOT TO EXCEED 2" AT ENDS AND TOPS OR REDUCE END CABINET WIDTH AS REQUIRED TO FIT SPACE AS SHOWN. THIS SHALL BE REFLECTED IN THE SHOP DRAWINGS FOR THE ARCHITECT'S REVIEW.

J. PULLS: UPPER AND LOWER CABINET DOORS AND FULL HEIGHT CABINETS SHALL HAVE PULLS MOUNTED VERTICALLY (UNO). DRAWERS SHALL HAVE HORIZONTAL PULLS.

K. BACKING: COORDINATE HEIGHT AND LOCATION OF BACKING PLATES FOR CASEWORK WITH MANUFACTURER'S RECOMMENDATIONS. SEE NOTES ON A30 SERIES SHEETS FOR ADDITIONAL BACKING INFORMATION.

L. SHELVING: ALL SHELVING SHALL BE ADJUSTABLE INCLUDING OPEN SHELVING, UNLESS NOTED OTHERWISE.

M. WALL HUNG CASEWORK: LOCATE TOP OF ALL WALL HUNG CASEWORK 7'-0" ABOVE FINISH FLOOR, UNLESS NOTED OTHERWISE. SEE SCHEDULE AND INTERIOR ELEVATIONS FOR BASE AND WALL CABINET DIMENSIONS.

N. BACKSPLASHES: ALL FIXED BASE CABINETS SHALL HAVE A BACKSPLASH AND SAME-HEIGHT SIDE-SPLASH WHERE ENDS OF CABINETS MEET WITH WALLS, AND WHERE CALLED OUT, UNLESS NOTED OR SHOWN OTHERWISE ON DRAWINGS. BACKSPLASHES SHALL BE TILE, UNLESS NOTED OTHERWISE.

O. CASEWORK INTERIORS: ALL SHELVES, VERTICAL DIVIDERS, AND CABINET INTERIORS SHALL BE FINISHED PER THE SPECIFICATIONS, EXCEPT FINISHED WITH PLASTIC LAMINATE TO MATCH EXTERIOR FINISH AT ALL OPEN OR GLAZED DOOR CASEWORK, AND WHERE CALLED OUT.

P. SHELVING FINISHES: ALL SHELVES SHALL HAVE ALL EDGES AND ENDS FINISHED AS PER THE SPECIFICATIONS FOR FRONT EDGE FINISH REQUIREMENTS. ALL SHELVES FINISHED WITH PLASTIC LAMINATE TO MATCH EXTERIOR FINISH AT OPEN OR GLAZED DOOR CASEWORK SHALL HAVE EDGES FINISHED WITH SPECIFIED EDGE-BANDING OR PLASTIC LAMINATE, AS SPECIFIED.

Q. CASEWORK ATTACHMENT: ALL CABINETS AND MILLWORK SHALL BE SECURELY ANCHORED TO WALLS AND FLOORS TO CONFORM TO SEISMIC SUPPORT REQUIREMENTS OF THE STATE OF WASHINGTON.

R. MEP DEVICES: CABINET SHOP DRAWINGS SHALL SHOW ACTUAL LOCATIONS OF ELECTRICAL ITEMS AND PLUMBING FIXTURES AND TRIM TO BE INSTALLED. GENERAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF CABINETS AND MILLWORK ITEMS WITH ELECTRICAL SWITCHES, OUTLET LOCATIONS, AND PLUMBING FIXTURES. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF ANY WORK.

S. CASEWORK TOPS: ALL TOPS OF UNITS UNDER 72" A.F.F., OR OVER 72" A.F.F. IF VISIBLE FROM AN UPPER BUILDING LEVEL, SHALL BE FURNISHED WITH CONTINUOUS COUNTERTOP OR, WHEN APPROVED BY THE ARCHITECT, INDIVIDUAL PLASTIC LAMINATE FINISH TOP.

T. CLOSURE PANELS: PROVIDE CLOSURE PANELS AT ALL GAPS AND VOIDS AT TOPS OF TALL UNITS AND AT TOP AND BOTTOM OF WALL UNITS (UPPER CASEWORK) NOT OTHERWISE CLOSED (I.E. WHERE CONTINUOUS COUNTERTOPS ARE REQUIRED) TO PREVENT DEBRIS FROM COLLECTING BEHIND OR BETWEEN UNITS.

U. DRAWER HEIGHTS: EXACT HEIGHT OF INDIVIDUAL DRAWERS IN DRAWER UNITS OR DRAWER / DOOR COMBINATION UNITS IS NOT GIVEN AND IS SUBJECT TO ADJUSTMENT DURING SHOP DRAWING REVIEW AND MAY VARY, DEPENDING ON LOCATION OF UNIT (I.E. TO LINE UP WITH ADJACENT CASEWORK, TRIM, ETC.).

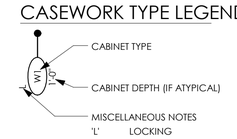
V. CASEWORK SCHEDULE: CASEWORK SCHEDULE LISTS CABINETS BY TYPE, BUT DOES NOT GIVE QUANTITIES. SEE INTERIOR ELEVATIONS AND FLOOR PLANS TO DETERMINE QUANTITIES.

W. CASEWORK HEIGHTS: HEIGHTS LISTED FOR BASE CABINETS ARE TO TOP OF COUNTERTOP, UNLESS NOTED OTHERWISE.

X. FLOOR FINISHES AT CASEWORK: CARPET AND/OR OTHER FLOOR FINISHES SHALL RUN UNDER ALL ISLAND, OPEN, OR "MOVEABLE" OR "MOBILE" CASEWORK IN ANY ROOM.

Z. SINK CUT OUTS: SINK CUT OUT SHOULD BE 1/4" SMALLER THAN SINK SO THAT THE COUNTER OVERLAPS THE SINK.

CASEWORK TYPE LEGEND



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Sheet Title
CASEWORK GENERAL NOTES AND TYPICAL DETAILS

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Sheet Number
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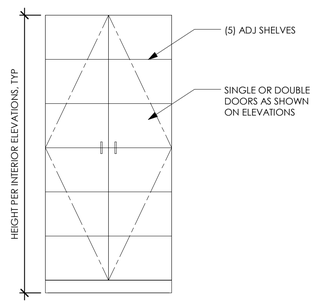
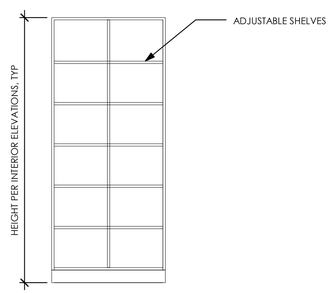
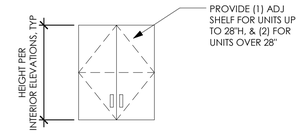


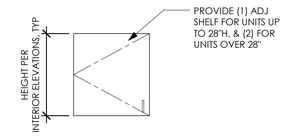
F1 TALL STORAGE UNIT
SCALE: 1/2" = 1'-0"



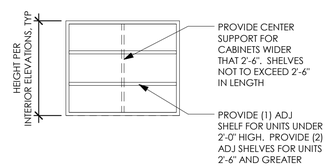
F2 TALL STORAGE UNIT
SCALE: 1/2" = 1'-0"



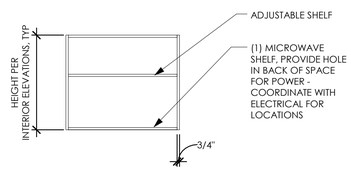
W1 WALL CABINET W/ (2) DOORS
SCALE: 1/2" = 1'-0"



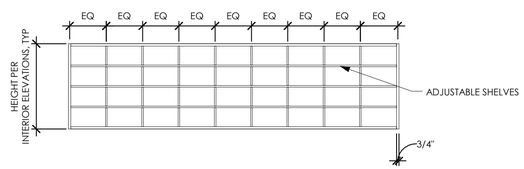
W2 WALL CABINET W/ (1) DOORS
SCALE: 1/2" = 1'-0"



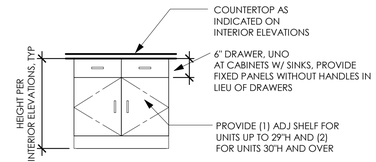
W3 WALL CABINET W/ OPEN SHELVING
SCALE: 1/2" = 1'-0"



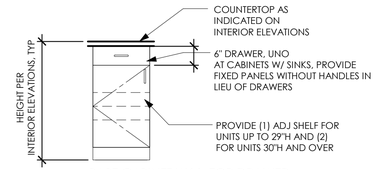
W4 MICROWAVE BANK
SCALE: 1/2" = 1'-0"



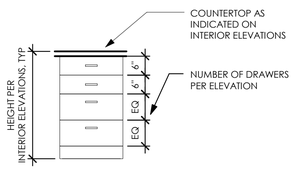
W5 MAIL CUBBY
SCALE: 1/2" = 1'-0"



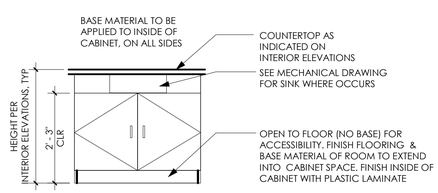
B1 BASE CABINET W/ 2 TOP DRAWERS
SCALE: 1/2" = 1'-0"



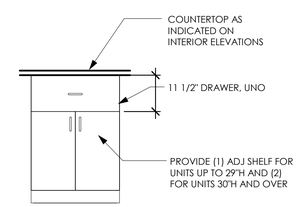
B2 BASE CABINET W/ 1 TOP DRAWER
SCALE: 1/2" = 1'-0"



B3 BASE CABINET W/ 4 DRAWERS
SCALE: 1/2" = 1'-0"



B4 ACCESSIBLE BASE CABINET
SCALE: 1/2" = 1'-0"



B5 BASE CABINET W/ 1 TOP DRAWER
SCALE: 1/2" = 1'-0"

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CASEWORK SCHEDULE

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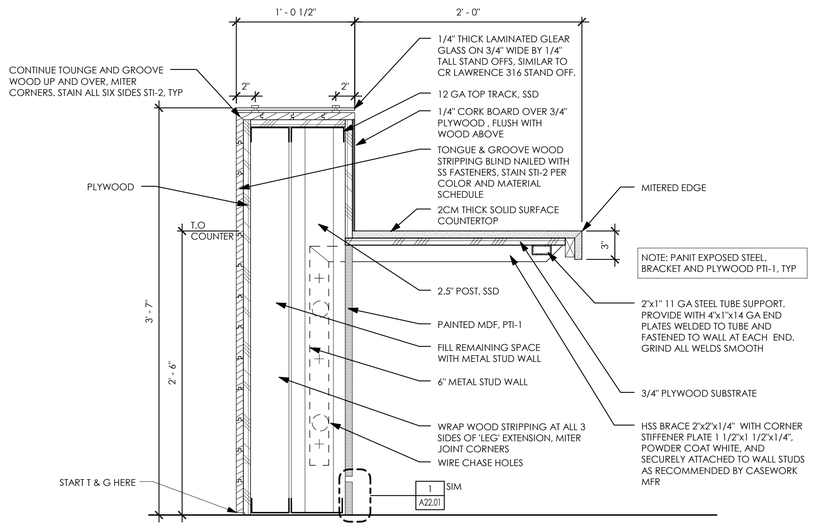
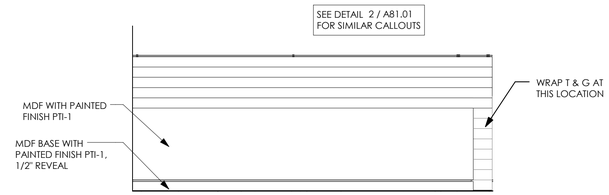


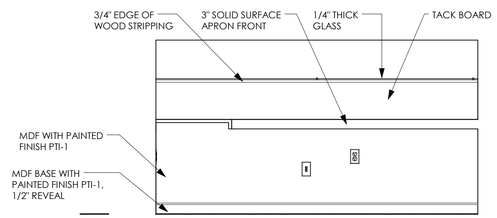
7 RECEPTION DESK SECTION

1 1/2" = 1'-0"



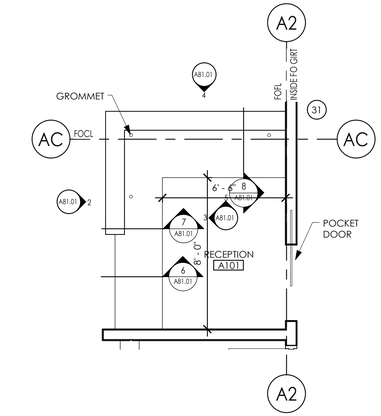
4 RECEPTION DESK WEST ELEVATION

1/2" = 1'-0"



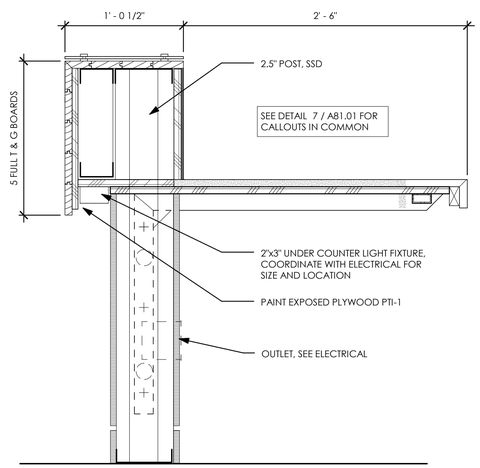
5 RECEPTION DESK EAST ELEVATION

1/2" = 1'-0"



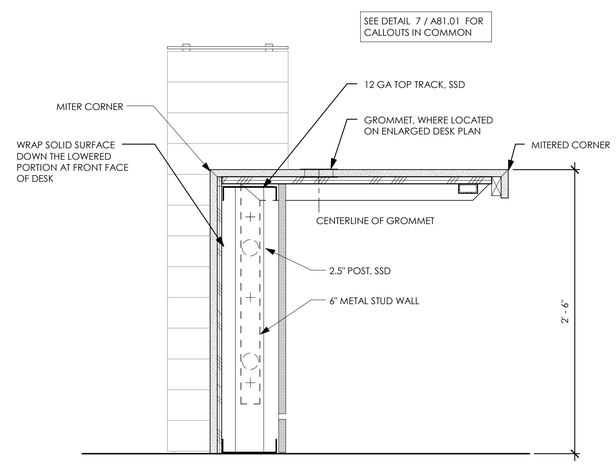
1 A101 ENLARGED FLOOR PLAN

1/4" = 1'-0"



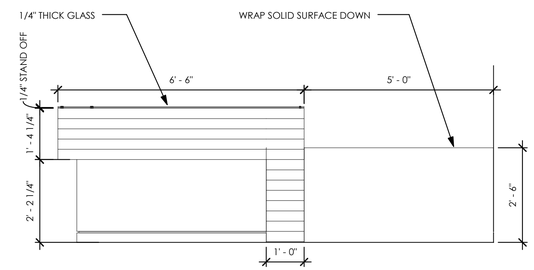
8 RECEPTION DESK SECTION

1 1/2" = 1'-0"



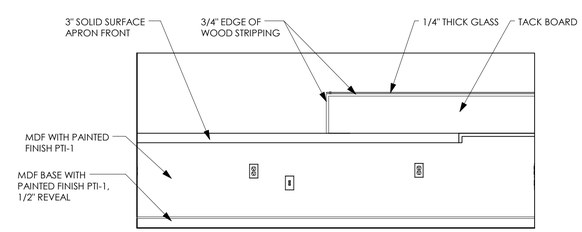
6 RECEPTION DESK SECTION

1 1/2" = 1'-0"



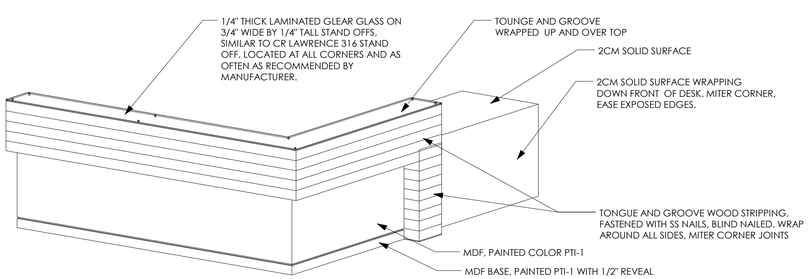
2 RECEPTION DESK SOUTH ELEVATION

1/2" = 1'-0"



3 RECEPTION DESK NORTH ELEVATION

1/2" = 1'-0"



9 3D RECEPTION DESK (FOR REFERENCE ONLY)

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CASEWORK DETAIL

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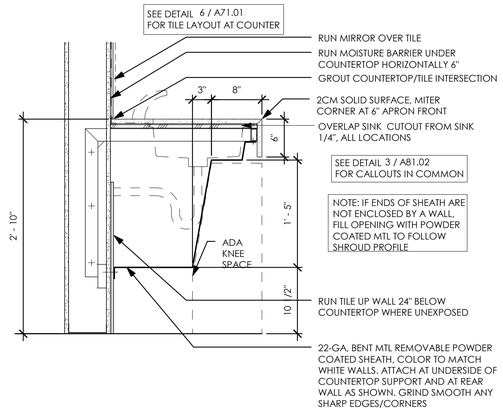
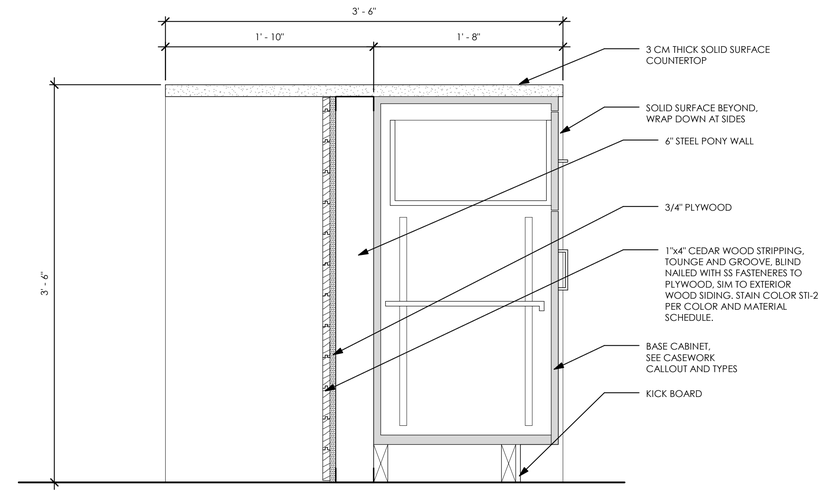


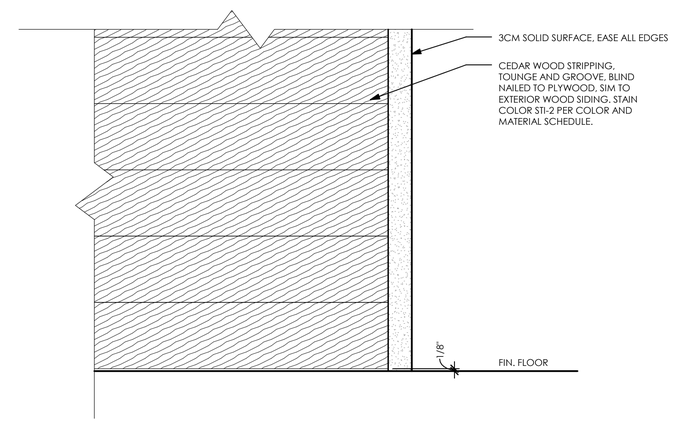
4 TOILET ROOM COUNTER DETAIL

1" = 1'-0"



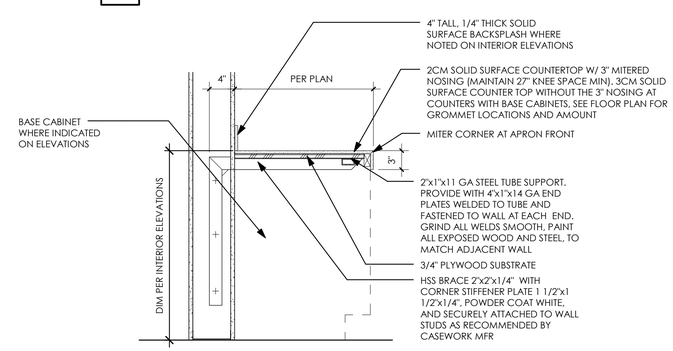
1 KITCHEN ISLAND / SECTION DETAIL

1 1/2" = 1'-0"



2 WOOD STRIPPING DETAIL

3" = 1'-0"



3 SOLID SURFACE COUNTERTOP SECTION

1" = 1'-0"

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