
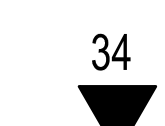



LEGEND:

-  2-HR FIRE RATED WALL
-  34 DOOR WIDTH AND DIRECTION OF TRAVEL
-  EXIT SIGN, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

KEYNOTES:

-  1 1 1/2 FIRE RATED DOOR, SEE DOOR SCHEDULE

BUILDING CODE AND LIFE SAFETY CRITERIA

BUILDING CONSTRUCTION: 2014 FLORIDA BUILDING CODE
 2015 INTERNATIONAL BUILDING CODE
 UFC 3-600-01, CHANGE 1 - 28 NOV 2016, FIRE PROTECTION ENGINEERING FOR FACILITIES
 UFC 1-200-01, DOD BUILDING CODE, 20 JUN 2016

LIFE SAFETY: NFPA 101 LIFE SAFETY CODE (2015)

BUILDING

BUILDING CONSTRUCTION TYPE: IBC AND FBC TYPE V-B
BUILDING OCCUPANCY TYPE: (IBC/FBC/NFPA) BUSINESS (B), AND STORAGE (S-2)
OCCUPANCY SEPARATION: NFPA 101 REQUIRES 2 HOUR FROM BUSINESS TO STORAGE S-2

MAX NUMBER OF STORIES: 2 STORIES
NUMBER OF STORIES PROVIDED: 1 STORY

MAX BUILDING HEIGHT: 30 FEET
BUILDING HEIGHT PROVIDED: 20 FEET

CONSTRUCTION RATINGS: 2014 FBC - TABLE 601: TYPE V-B
 2015 IBC - TABLE 601: TYPE V-B

STRUCTURAL FRAME - 0 HOURS
 BEARING WALLS (EXT AND INT) - 0 HOURS
 NON-BEARING WALLS (EXT AND INT) - 0 HOURS
 FLOOR CONSTRUCT - 0 HOURS
 ROOF CONSTRUCT - 0 HOURS

2014 FLORIDA BUILDING CODE - BUSINESS
TOTAL BUILDING AREA: 2,999 SF
MAX BUILDING AREA ALLOWED: 9,000 S.F.

2015 INTERNATIONAL BUILDING CODE - BUSINESS
MAX BUILDING AREA ALLOWED: 9,000 S.F.

OCCUPANT LOAD: BUSINESS - (1720 SF / 100 GROSS) = 18 OCCUPANTS
 STORAGE - (1200 SF / 300 GROSS) = 4 OCCUPANTS

MIN. EGRESS WIDTH REQ.: CORRIDORS - NONE PROVIDED
 DOORS: OCCUPANCY LOAD X 0.2 INCHES
 BUSINESS: 18 X 0.2 = 3.6 INCHES
 STORAGE: 4 X 0.2 = 0.8 INCHES

EGRESS WIDTH PROVIDED: DOORS: 68 INCHES (2 MEANS OF EGRESS)

MIN. NUMBER OF EXITS REQ.: 2 PER NFPA, IBC AND FBC
NUMBER OF EXITS PROVIDED: 2

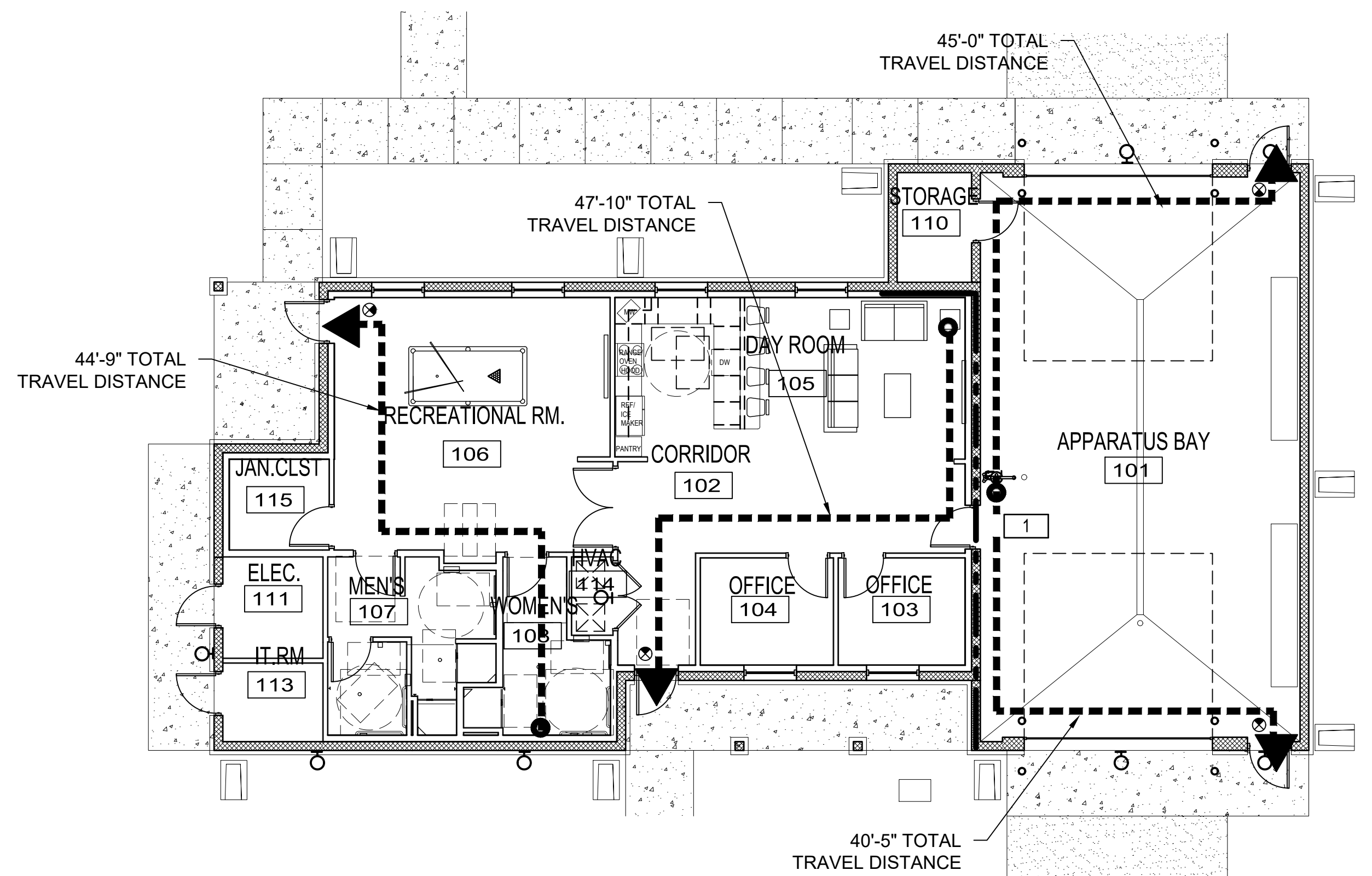
MAX COMMON PATH OF TRAVEL: 100 FEET, FULLY SPRINKLED - NFPA, IBC AND FBC
COMMON PATH OF TRAVEL PROVIDED: 47'-10"

MAX TRAVEL DISTANCE TO EXITS: 300 FEET, FULLY SPRINKLED - NFPA, IBC AND FBC
TRAVEL DISTANCE PROVIDED: 47'-10"

MAX DEAD END CORRIDOR: 50 FEET, FULLY SPRINKLED - NFPA, IBC AND FBC
DEAD END CORRIDOR PROVIDED: NONE

INTERIOR FINISHES: BUSINESS - CLASS A AND CLASS C - PER FBC, IBC AND NFPA

UFC 3-600-01
 SECTION 6.4.2
 PROVIDE HOOD TYPE EXTINGUISHING SYSTEM OR COOKTOP W/ TEMP CONTROL DEVICE. CONNECT TO SHUT-OFF SYSTEM TO CUT POWER AND/OR GAS FEEDING RANGE.



LIFE SAFETY PLAN

SCALE: 1/8" = 1'-0"

100% RTA SUBMITTAL

LIFE SAFETY ANALYSIS AND SUMMARY

LS-101

PROJECT NO:	DESIGNED BY:	DRAWN BY:	CHK'D BY:	PROJ. MGR.:	DATE:
25898.03	DB	BP	BP	-	JULY 2016

OLF-X
 PHASE II - AIRFIELD

BASKERVILLE-DONOVAN, INC.
 Innovative Infrastructure Solutions
 440 W. MAIN ST. PENSACOLA, FL 32502 (850) 438-8661
 ENGINEERING BUSINESS: ED-0000340
 Pensacola - Panama City Beach - Tallahassee - Mobile - Brevard County - Tampa
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1.00 GENERAL NOTES

1.01 THESE STRUCTURAL NOTES SHALL BE APPLIED WITH THE TECHNICAL SPECIFICATIONS IN THE SPECIFICATIONS MANUAL. ANY CONFLICTING REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER-OF-RECORD FOR RESOLUTION BEFORE PROCEEDING WITH FABRICATION OR CONSTRUCTION.

1.02 ALL CONSTRUCTION SHALL CONFORM TO THE FLORIDA BUILDING CODE (2014) AND THE INTERNATIONAL BUILDING CODE (2015).

1.03 WIND LOADS - STRUCTURE HAS BEEN DESIGNED TO CONFORM TO THE WIND PROVISIONS OF ASCE 7-10. SEE WIND PRESSURE DIAGRAM & CHART FOR THE FOLLOWING:

- A. ULTIMATE BASIC WIND SPEED
- B. BUILDING RISK CATEGORY
- C. WIND EXPOSURE CATEGORY
- D. INTERNAL PRESSURE COEFFICIENT
- E. COMPONENT & CLADDING WIND PRESSURES

1.04 DESIGN GRAVITY LOADS ARE AS FOLLOWS:

- A. SUPERIMPOSED DEAD LOADS:
 - 1. ROOFING AND INSULATION: 3 PSF
 - 2. MECHANICAL, ELECTRICAL, PLUMBING: 6 PSF
 - 3. CEILINGS: 3 PSF
- B. LIVE LOADS: (MAY BE REDUCED PER CODE)
 - 1. ROOFS: 20 PSF
 - 2. SLAB (APPARATUS BAY): 250 PSF

1.05 EARTHQUAKE LOADS

- 1. SEISMIC IMPORTANCE FACTOR (I_e): 1.0
- 2. RISK CATEGORY: IV
- 3. SEISMIC DESIGN CATEGORY: C
- 4. MAPPED SPECTRAL RESPONSE ACCELERATIONS & PARAMETERS:
 - S_s = 0.106g S_{ds} = 0.113g
 - S₁ = 0.058g S_{d1} = 0.093g
- 5. SITE CLASSIFICATION: D
- 6. BASIC SEISMIC FORCE RESISTING SYSTEM: INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
- 7. DESIGN BASE SHEAR: 19.6 KIPS
- 8. SEISMIC RESPONSE COEFFICIENT: C_s = 0.048
- 9. RESPONSE MODIFICATION COEFFICIENT: R = 3.5
- 10. ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE METHOD

1.06 DRAWINGS SHOW TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. FOR DETAILS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS SIMILAR TO THOSE SHOWN.

1.07 THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

1.08 CONTRACTOR SHALL MAKE NO DEVIATION FROM DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL OF THE ARCHITECT. FOR ADDITIONAL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS. NOTIFY STRUCTURAL ENGINEER OF ANY CONFLICT AND/OR OMISSION.

1.09 REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR IS ALSO RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.

2.00 FOUNDATIONS AND SLAB-ON-GRADE

2.01 THE DESIGN OF FOUNDATIONS AND SLAB ON GRADE IS BASED ON THE CRITERIA ESTABLISHED IN THE GEOTECHNICAL REPORT BY TERRACON CONSULTANTS, INC, PENSACOLA, FL; REPORT. NO. EA145031, DATED SEPTEMBER 2, 2014. THE RECOMMENDATIONS OF THAT REPORT SHALL BE CONSIDERED AN INTEGRAL PART OF THE CONTRACT DOCUMENTS.

2.02 SHALLOW FOUNDATIONS HAVE BEEN DESIGNED BASED 2000 PSF ALLOWABLE SOIL BEARING PRESSURE.

2.03 A QUALIFIED GEOTECHNICAL ENGINEER SHALL VERIFY CONDITION AND/OR ADEQUACY OF ALL SUBGRADES, FILLS AND BACKFILLS BEFORE PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, WALLS, FILLS, BACKFILLS, ETC. SHOULD THE CONTRACTOR FIND UNDESIRABLE SOILS, HE SHALL STOP WORK AND IMMEDIATELY CONTACT THE CONTRACTING OFFICER. ALL FOOTINGS SHALL REST EITHER ON UNDISTURBED SOIL OR A MANUALLY OPERATED VIBRATORY SLED OR TAMPER SHOULD BE USED TO DENSIFY ANY SOILS IN THE BOTTOM OF THE FOOTING TRENCHES LOOSENEED DURING THE EXCAVATION OPERATION.

2.04 SIDES OF FOUNDATIONS SHALL BE FORMED UNLESS CONDITIONS PERMIT EARTH FORMING. FOUNDATIONS POURED AGAINST THE EARTH REQUIRE THE FOLLOWING PRECAUTIONS: SLOPE SIDES OF EXCAVATIONS AS APPROVED BY GEOTECHNICAL ENGINEER AND CLEAN UP SLOUGHING BEFORE AND DURING CONCRETE PLACEMENT.

2.05 CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY PROTECTING ALL EXCAVATION SLOPES.

2.06 WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN ONE VERTICAL TO TWO HORIZONTAL.

2.07 DEWATER TO AT LEAST TWO FEET BELOW BOTTOM OF LOWEST FOUNDATION IF GROUNDWATER IS ENCOUNTERED.

2.08 SLAB-ON-GRADE REQUIREMENTS:

A. UNLESS NOTED OTHERWISE, THE SLAB-ON-GRADE SHALL BE A MINIMUM OF 4 INCHES THICK, PLACED ON COMPACTED SUBGRADE, AND REINFORCED WITH WWF 6X6 W2.0 X W2.0 WITH 1 1/2" CLEAR COVER TO TOP OF SLAB.

B. PLACE CONTROL OR CONSTRUCTION JOINTS AT LOCATIONS INDICATED BY "S.C.J." SAWCUT CONTROL JOINTS AS SOON AFTER POURING AS POSSIBLE. WHEN CONCRETE WILL NOT RAVEL: 12 HRS. MAX. CURE CONCRETE IN ACCORDANCE WITH ACI 301. BEGIN CURING IMMEDIATELY AFTER POURING TO LIMIT CRACKING PRIOR TO SAWCUTTING CONTROL JOINTS.

C. SUBGRADE SHALL BE PREPARED AS RECOMMENDED IN THE GEOTECHNICAL REPORT.

D. VAPOR BARRIER SHALL BE 15 MIL MINIMUM THICKNESS AND CONFORM TO ASTM E1745, CLASS A, B, OR C. VAPOR BARRIER SHOULD BE PLACED OVER COMPACTED SUBGRADE. VAPOR BARRIER SHOULD BE OVERLAPPED 6 IN. AND TAPED AT THE JOINTS AND CAREFULLY FITTED AROUND SERVICE OPENINGS.

3.00 REINFORCED CONCRETE

3.01 ALL CONCRETE WORK SHALL CONFORM TO ACI 301-10, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS. DESIGN IS BASED ON ACI 318-11, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. DETAIL CONCRETE REINFORCEMENT AND ACCESSORIES IN ACCORDANCE WITH ACI 315, DETAILING MANUAL. DETAIL ALL CONCRETE WALLS AND BEAMS ON THE SHOP DRAWINGS IN ELEVATION UNLESS SPECIFICALLY APPROVED OTHERWISE. SUBMIT SHOP DRAWINGS FOR APPROVAL, SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING STEEL AND ACCESSORIES. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED.

3.02 UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL BE NORMAL WEIGHT AND HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS:

- A. FOUNDATIONS 3000 PSI
- B. SLAB-ON-GRADE 3500 PSI

CONCRETE MAY CONTAIN A PROPERLY DESIGNED SUPERPLASTICIZER FOR WORKABILITY.

3.03 REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE.

3.04 THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE OWNER'S TESTING LABORATORY. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S.

3.05 USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IN CONCRETE IS NOT PERMITTED.

3.06 CHAMFER OR ROUND ALL EXPOSED CORNERS A MINIMUM OF 3/4".

3.07 TIE ALL REINFORCING STEEL AND EMBEDMENTS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF REINFORCEMENT WITHIN SPECIFIED TOLERANCE DURING ALL CONSTRUCTION ACTIVITIES. "STICKING" DOWELS INTO WET CONCRETE IS NOT PERMITTED.

3.08 PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE; SPLICE ONLY AS SHOWN OR APPROVED; STAGGER SPLICE WHERE POSSIBLE; USE FULL TENSION SPLICE (CLASS "B") UNLESS NOTED OTHERWISE. DOWELS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED REINFORCEMENT AND SHALL BE LAPPED WITH FULL TENSION SPLICES (CLASS "B") UNLESS NOTED OTHERWISE. TERMINATE BARS WITH STANDARD HOOKS.

3.09 REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVER UNLESS NOTED OTHERWISE (PER ACI 318-05 PAR.7.7.1):

- A. CONCRETE AGAINST EARTH (NOT FORMED): 3"
- B. FORMED CONCRETE EXPOSED TO THE EARTH OR WEATHER:
 - 1. #6 THROUGH #18 BARS: 2"
 - 2. #5 BARS AND SMALLER: 1-1/2"
- C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
 - 1. SLABS AND WALLS: 1"
 - 2. BEAMS (STIRRUPS) AND COLUMNS (TIES): 1-1/2"

3.10 DO NOT PLACE DUCTS EXCEEDING ONE-THIRD THE SLAB OR WALL THICKNESS WITHIN THE SLAB OR WALL UNLESS SPECIFICALLY SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.

3.11 DO NOT WELD OR TACK WELD REINFORCING STEEL UNLESS APPROVED OR DIRECTED BY THE STRUCTURAL ENGINEER.

3.12 SHORING SHALL REMAIN IN PLACE UNTIL CONCRETE HAS ATTAINED 75% OF ITS 28-DAY STRENGTH.

3.13 FOR CONCRETE PADS SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.

4.00 STRUCTURAL STEEL, BOLTS

4.01 BOLTS SHALL CONFORM TO ASTM A307 OR F1554, DIAMETER AS INDICATED IN THESE DRAWINGS.

5.00 MASONRY

5.01 CONCRETE MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO ACI 530, BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES AND ACI 530.1, SPECIFICATIONS FOR CONCRETE MASONRY CONSTRUCTION.

5.02 PROVIDE LIGHTWEIGHT, HOLLOW, LOAD-BEARING CONCRETE MASONRY UNITS (CMU) CONFORMING TO ASTM C90, f'c = 1900 PSI (NET), UNLESS NOTED OTHERWISE.

5.03 PROVIDE MASONRY CONSTRUCTION WITH MINIMUM COMPRESSIVE STRENGTH, f_m = 1500 PSI.

5.04 PROVIDE TYPE "S" OR TYPE "M" MORTAR IN ACCORDANCE WITH ASTM C270, UNLESS NOTED OTHERWISE.

5.05 VERTICAL CELLS SHALL BE REINFORCED WITH #5 @32" O.C. MINIMUM, UNLESS NOTED OTHERWISE IN THE CONTRACT DRAWINGS. VERTICAL REINFORCING SHALL BE CONTINUOUS (LAPPED 48 BAR DIAMETERS AT SPLICES) AND HELD IN POSITION AT THE TOP AND BOTTOM OF THE GROUT POUR. UNO, POSITION VERTICAL REINFORCING IN THE CENTER OF THE CELL.

5.06 PROVIDE GROUT FOR REINFORCED MASONRY IN ACCORDANCE WITH ASTM C476. GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,500 PSI UNLESS NOTED OTHERWISE. GROUT SHALL BE FLUID CONSISTENCY. FLUID CONSISTENCY SHALL MEAN THAT CONSISTENCY AS FLUID AS POSSIBLE FOR POURING WITHOUT SEGREGATION OF THE CONSTITUENT PARTS. FILL ALL CELLS BELOW GRADE WITH GROUT. ALL GROUT SHALL BE CONSOLIDATED AT THE TIME OF POURING BY VIBRATING AND THEN RECONSOLIDATED BY AGAIN PUDDLING LATER, BEFORE PLASTICITY IS LOST. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE POUR OF THE GROUT 1-1/2 INCHES BELOW THE TOP OF THE UPPERMOST UNIT.

5.07 PROVIDE HORIZONTAL JOINT REINFORCEMENT COMPLYING WITH ASTM A82, NO. 9 GAUGE OR HEAVIER, ZINC COATED, PLACED 16 INCHES ON CENTER IN 8" NOMINAL CMU WALLS AND 8" ON CENTER IN 12" NOMINAL CMU WALLS, UNLESS NOTED OTHERWISE.

5.08 PROVIDE RUNNING BONDS WITH VERTICAL JOINTS LOCATED AT CENTER OF MASONRY UNITS IN THE ALTERNATE COURSE BELOW, UNLESS NOTED OTHERWISE.

5.09 ALL MASONRY UNITS SHALL BE FREE OF EXCESSIVE DUST AND DIRT AT THE TIME THEY ARE LAYED BY THE MASON.

5.10 ALL REINFORCED HOLLOW UNIT MASONRY SHALL BE BUILT TO PRESERVE THE UNOBSTRUCTED VERTICAL CONTINUITY OF THE CELLS TO BE FILLED. WALLS AND CROSS WEBS IN ALL REINFORCED MASONRY WALLS SHALL BE FULLY BEDDED IN MORTAR. ALL HEAD (OR END) JOINTS SHALL BE SOLIDLY FILLED WITH MORTAR FOR A DISTANCE IN FROM EACH FACE OF THE UNIT NOT LESS THAN THE THICKNESS OF THE LONGITUDINAL FACE SHELLS, BOND SHALL BE PROVIDED BY LAPPING UNITS IN SUCCESSIVE VERTICAL COURSES.

5.11 PROVIDE VERTICAL CONTROL JOINTS BETWEEN REINFORCED MASONRY WALLS AND MASONRY PARTITION WALLS AND AS INDICATED IN THE STRUCTURAL CONTRACT DRAWINGS.

6.00 STRUCTURAL TIMBER:

6.01 MATERIALS:

- 1. SUBMIT THE FOLLOWING PRODUCT DATA TO ENGINEER FOR REVIEW.
 - A. NAILS USED TO FASTEN SHEATHING – SIZE & DIA.
 - B. METAL CONNECTORS – SERVICE LOAD DESIGN STRENGTH (GRAVITY AND WIND LOADS)
- 2. TIMBER/LUMBER GRADE: NO. 2 SOUTHERN PINE OR BETTER

3. BOLTS SHALL BE ASTM A307 OR F1554 GRADE 36 WITH DIAMETER AS LISTED IN THE DRAWINGS. NUTS TO BE A563A HEX WITH PLATE WASHERS AS INDICATED IN THE DRAWINGS.

4. ALL TIMBER CONNECTORS INDICATED ARE SIMPSON FASTENERS. EQUIVALENT FASTENERS BY OTHER MANUFACTURERS MAY BE SUBMITTED FOR REVIEW. ALL HOLES IN CONNECTORS SHALL BE FILLED WITH THE RECOMMENDED SIZE, FINISH AND NUMBER OF FASTENERS. WHEN MULTIPLE CONNECTORS ARE USED, THEY MUST BE INSTALLED SO FASTENER LOCATIONS TO DO NOT OVERLAP. INSTALL ALL SPECIFIED FASTENERS BEFORE LOADING THE CONNECTION. ALL STRAPS AND HANGERS SHALL BE ZINC COATED.

6.02 FRAMING NOTES:

1. TOP PLATES SHALL BE DOUBLE AND LAP SPLICED 4'-0" WITH 9-16 D NAILS.

2. ROOF DECKING SHALL BE EXTERIOR GRADE 19/32" NOMINAL PLYWOOD OR ORIENTED STRAND BOARD (OSB). USE SPACING OF 4" AT ZONES 2 & 3 AND NAIL SPACING OF 6" O.C. IN ZONE 1. USE 10D COMMON OR DEFORMED SHANK NAILS.

3. ALL CONNECTIONS NOT SPECIFICALLY DETAILED SHALL BE IN ACCORDANCE WITH THE FASTENING SCHEDULE IN THE FLORIDA BUILDING CODE, TABLE 2304.9.1.

6.03 BOLT HOLES SHALL BE AT LEAST A MINIMUM OF 1/32" AND NO MORE THAN A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER.

6.04 A FASTENER THAT SPLITS THE WOOD WILL NOT TAKE THE DESIGN LOAD, EVALUATE SPLITS TO DETERMINE IF THE CONNECTION WILL PERFORM AS REQUIRED. DRY WOOD MAY SPLIT MORE EASILY AND SHOULD BE EVALUATED AS REQUIRED. IF WOOD TENDS TO SPLIT, CONSIDER PRE-BORING HOLES WITH DIAMETERS NOT EXCEEDING 0.75 OF THE FASTENER DIAMETER.

6.05 WOOD SHRINKS AND EXPANDS AS IT LOSES AND GAINS MOISTURE, PARTICULARLY PERPENDICULAR TO GRAIN. TAKE WOOD SHRINKAGE AND EXPANSION INTO ACCOUNT WHEN INSTALLING CONNECTION. ALL FASTENERS HAVE BEEN DESIGNED USING DRY LUMBER DIMENSIONS.

6.06 SET ROUGH CARPENTRY TO REQUIRED LEVELS AND LINES, WITH MEMBERS PLUMB, TRUE TO LINE, CUT, AND FITTED. FIT ROUGH CARPENTRY TO OTHER CONSTRUCTION; SCRIBE AND COPE AS NEEDED FOR ACCURATE FIT. LOCATE NAILERS, BLOCKING, AND SIMILAR SUPPORTS TO COMPLY WITH REQUIREMENTS FOR ATTACHING OTHER CONSTRUCTION.

6.07 DO NOT SPLICE STRUCTURAL MEMBERS BETWEEN SUPPORTS, UNLESS OTHERWISE INDICATED.

6.08 SORT AND SELECT LUMBER SO THAT NATURAL CHARACTERISTICS WILL NOT INTERFERE WITH INSTALLATION OR WITH FASTENING OTHER MATERIALS TO LUMBER. DO NOT USE MATERIALS WITH DEFECTS THAT INTERFERE WITH FUNCTION OF MEMBER OR PIECES THAT ARE TOO SMALL TO USE WITH MINIMUM NUMBER OF JOINTS OR OPTIMUM JOINT ARRANGEMENT.

6.09 WOOD FRAMING SIZES, VERTICAL FRAMING, HORIZONTAL FRAMING, FIRESTOPS, ANCHORAGE, FURRING AND CONNECTORS NOT SHOWN ON DOCUMENTS SHALL BE PER LOCAL BUILDING CODE MINIMUM REQUIREMENTS.

6.10 ALL LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED TESTING AGENCY.

6.11 ALL WOOD IN CONTACT WITH CONCRETE, MASONRY OR EXPOSED TO WEATHER SHALL BE PRESSURE TREATED LUMBER.

7.00 PREFABRICATED, PRE-ENGINEERED WOOD TRUSSES:

7.01 TIMBER PLATE CONNECTED TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE TPI DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES. METAL PLATES SHALL BE HOT DIPPED GALVANIZED.

7.02 TRUSSES AND THEIR CONNECTIONS SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER. TRUSS DESIGN SHALL BE SUBMITTED FOR ENGINEER'S REVIEW AND SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN OF THE TRUSSES. ENGINEER SHALL BE REGISTERED IN THE PROJECT STATE. SUBMITTALS SHALL INDICATE THE APPLICABLE BLDG CODE, DESIGN WIND SPEED, DESIGN FORCES, AND REACTIONS AT BEARING POINTS. THE PLAN LAYOUT OF THE TRUSSES SHALL BE INDICATED ON THE SHOP DRAWINGS.

7.03 TRUSSES SHALL BE DESIGNED FOR THE WIND AND SUPERIMPOSED GRAVITY LOADS AS SHOWN IN SECTION 1.00 OF THESE NOTES AS WELL AS THE ADDITIONAL LOADS:

- A. TRUSS SELF-WEIGHT
- B. BOTTOM CHORD DEAD LOAD = 5-PSF
- C. TOP CHORD DEAD LOAD = 5-PSF

7.04 LIMIT VERTICAL DEFLECTION OF TRUSS TO 1/240 OF THE SPAN UNDER ALL LOAD COMBINATIONS.

7.05 TRUSSES SHALL BE SHOP ASSEMBLED.

7.06 PROVIDE BOTTOM CHORD BRACING AND OTHER BRACING AS REQUIRED BY TRUSS MANUFACTURER.

7.07 TRUSS TO TRUSS CONNECTIONS SHALL BE DETERMINED BY THE TRUSS MANUFACTURER & SHOWN ON THE TRUSS MANUFACTURER'S SHOP DRAWINGS.

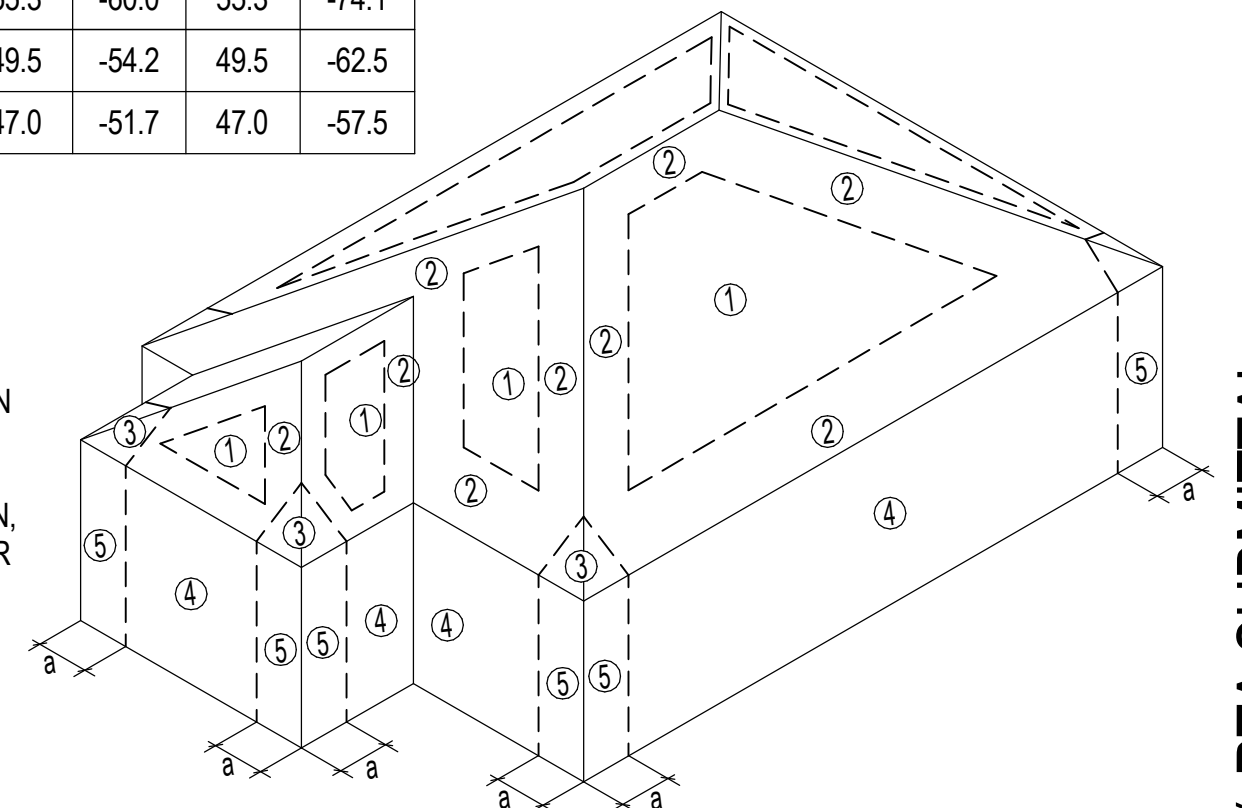
WIND LOAD DETERMINATION ASSUMPTIONS - INTERNATIONAL BUILDING CODE 2012					
WIND VELOCITY (MPH)	EXPOSURE CATEGORY	MEAN ROOF HEIGHT (FT.)	ROOF SLOPE	RISK CATEGORY	ENCLOSURE CATEGORY
153	C	22	3 ON 12	IV	ENCLOSED

ATFP DESIGN PER UFC 4-010-01 DATED 9 FEBRUARY 2012, CHANGE 1, 1 OCTOBER 2013 IS NOT APPLICABLE BASED ON THE FACILITY CLASSIFICATION AS A LOW OCCUPANCY BUILDING

ULTIMATE DESIGN WIND PRESSURES FOR COMPONENTS AND CLADDING (PSF)												
EFF. AREA (SQ. FT)	ROOF ZONE 1		ROOF ZONE 2		ROOF ZONE 3		WALL ZONE 4		WALL ZONE 5			
	≤ 10	> 10	≤ 10	> 10	≤ 10	> 10	≤ 10	> 10	≤ 10	> 10		
≤ 10	31.9	-50.6	31.9	-88.1	-103.1	31.9	-88.1	-103.1	55.3	-60.0	55.3	-74.1
50	25.3	-47.3	25.3	-71.7	-103.1	25.3	-71.7	-103.1	49.5	-54.2	49.5	-62.5
≥ 100	22.5	-45.9	22.5	-64.7	-103.1	22.5	-64.7	-103.1	47.0	-51.7	47.0	-57.5

NOTES:

- 1. FOR EFFECTIVE AREAS BETWEEN THOSE GIVEN ABOVE THE LOAD MAY BE INTERPOLATED, OTHERWISE USE THE LOAD ASSOCIATED WITH THE LOWER EFFECTIVE AREA.
- 2. THE EDGE STRIP, a = 3 FT.
- 3. PRESSURES SHALL BE APPLIED IN ACCORDANCE WITH THE FIGURE SHOWN ON THIS SHEET.
- 4. PRESSURES GIVEN ARE ULTIMATE LOADS TO BE USED WITH STRENGTH DESIGN. FOR SERVICE LOADS TO BE USED WITH ALLOWABLE STRESS DESIGN, MULTIPLY THE PRESSURES BY 0.60. SEE TABLES 2.3 AND 2.4 IN ASCE 7-10 FOR MORE INFORMATION ON LOAD COMBINATIONS.



REPRESENTATIVE DIAGRAM

NO.	DATE	APPR.	REVISION/ACTION TAKEN

PROJECT NO.: 25808.03	DESIGNED BY: ICM	DRAWN BY: ICM	PROJ. MGR: JLD

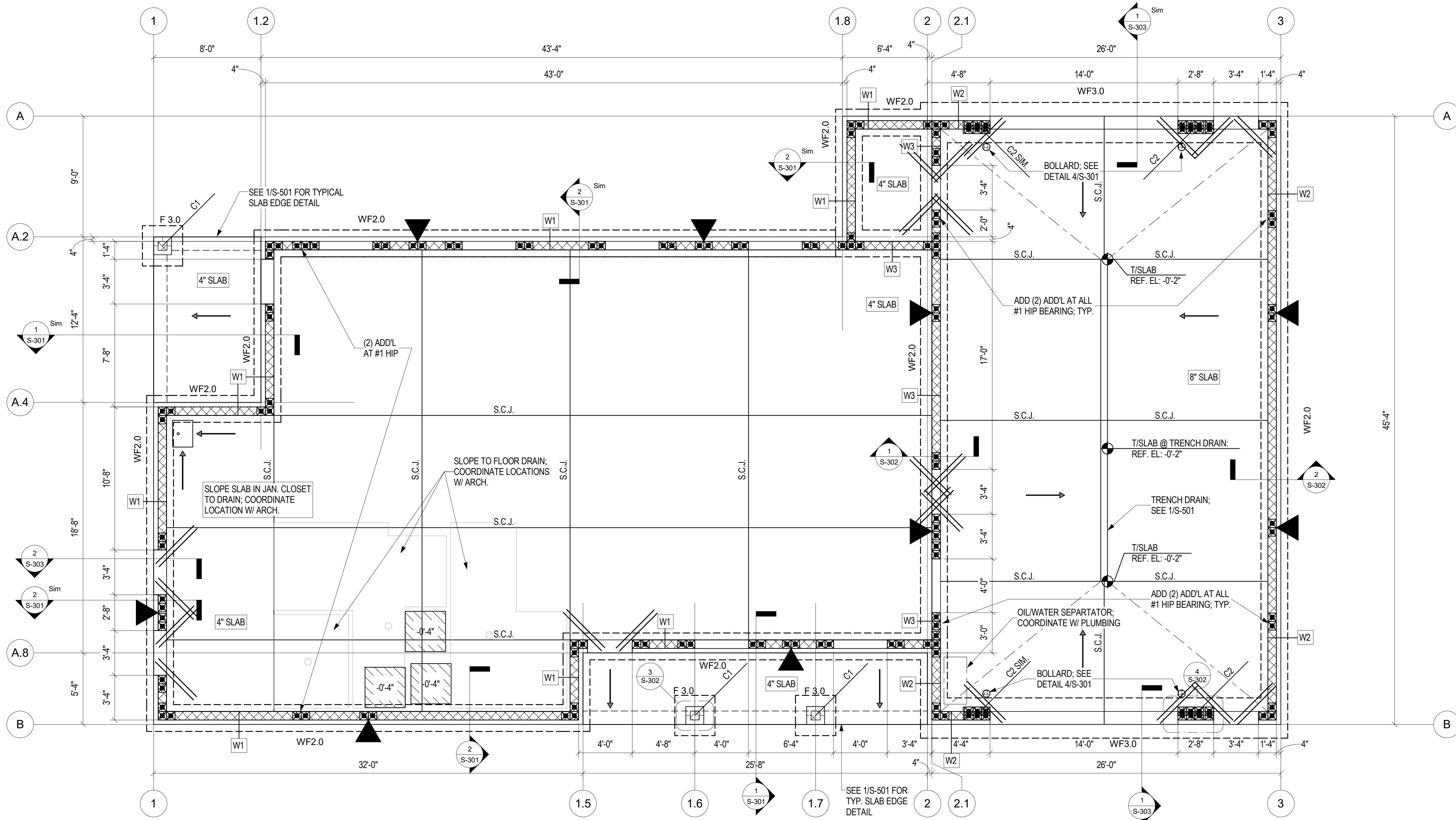
NOT RELEASED OR CONSTRUCTION BY DATE: JULY 2016

100% RTA SUBMITTAL

NO.	DATE	APPR.	REVISION/ACTION TAKEN

PROJECT NO.: 25698.03	DESIGNED BY: ICM
DRAWN BY: ICM	CHK'D BY: LJD
PROJ. MGR:	DATE: JULY 2016

100% RTA SUBMITTAL
 FOUNDATION AND SLAB-ON-GRADE PLAN



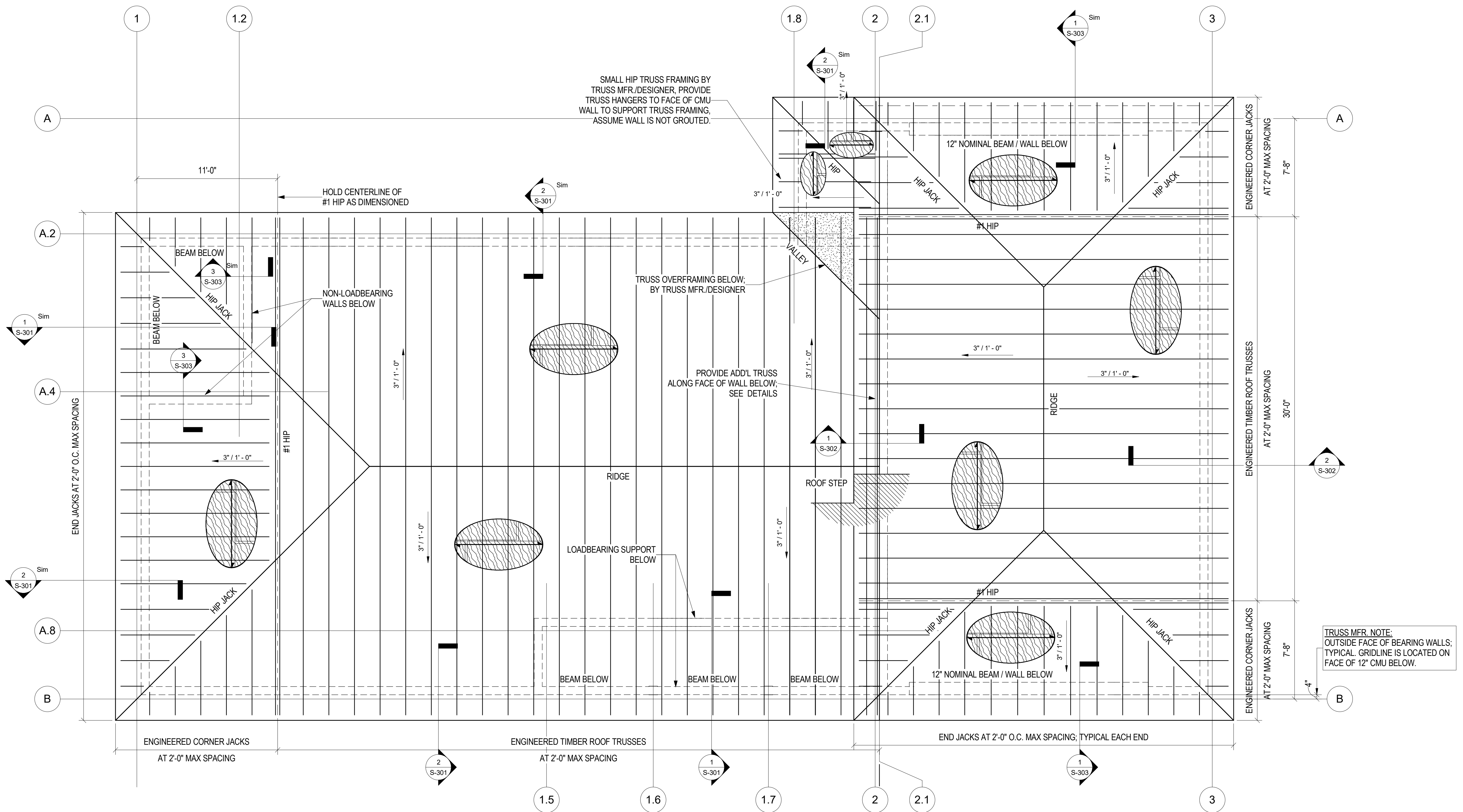
1 SLAB-ON-GRADE PLAN
 1/4" = 1'-0"
 T.O. SLAB REF. ELEV: 0'-0" U.N.O.; REF. EL: 0'-0" = ELEV: 213.00'

FOOTING TYPE	LENGTH	WIDTH	THICKNESS	TOP REINFORCING	BOTTOM REINFORCING
F 3.0	3'-0"	3'-0"	1'-0"	N/A	#5 @ 12" O.C. E.W.
WF2.0	SEE PLAN	2'-0"	1'-0"	N/A	#5 @ 12" O.C. E.W.
WF3.0	SEE PLAN	3'-0"	1'-0"	N/A	#5 @ 12" O.C. E.W.

LEGEND

- = 12" NOMINAL CMU WALLS TO REF. ELEV: 2'-8". 8" NOMINAL CMU WALL FROM REF. ELEV: 2'-8" TO TOP OF WALL. UNLESS NOTED OTHERWISE (U.N.O.), WALL SHALL BE REINFORCED WITH #5 VERTICAL REINFORCING AT 4'-0" ON CENTER IN CENTER OF GROUT FILLED CELLS. PROVIDE HORIZONTAL JOINT REINFORCING AND ADDITIONAL VERTICAL REINFORCING AS OUTLINED IN THE GENERAL NOTES, TYPICAL DETAILS AND SECTIONS IN THESE DRAWINGS.
- = 12" NOMINAL CMU WALLS TO REF. ELEV: 2'-8". 8" NOMINAL CMU WALL FROM REF. ELEV: 2'-8" TO TOP OF WALL. UNLESS NOTED OTHERWISE (U.N.O.), WALL SHALL BE REINFORCED WITH #5 VERTICAL REINFORCING AT 2'-0" ON CENTER IN CENTER OF GROUT FILLED CELLS. PROVIDE HORIZONTAL JOINT REINFORCING AND ADDITIONAL VERTICAL REINFORCING AS OUTLINED IN THE GENERAL NOTES, TYPICAL DETAILS AND SECTIONS IN THESE DRAWINGS.
- = 8" NOMINAL CMU WALL. UNLESS NOTED OTHERWISE (U.N.O.), WALL SHALL BE REINFORCED WITH #5 VERTICAL REINFORCING AT 3'-4" ON CENTER IN CENTER OF GROUT FILLED CELLS. PROVIDE HORIZONTAL JOINT REINFORCING AND ADDITIONAL VERTICAL REINFORCING AS OUTLINED IN THE GENERAL NOTES, TYPICAL DETAILS AND SECTIONS IN THESE DRAWINGS.
- = ADDITIONAL GROUT FILLED AND REINFORCED CELL IN ADDITION TO TYPICAL REINFORCING. PROVIDE BAR SIZE TO MATCH WALL REINF.
- = VERTICAL MASONRY CONTROL JOINT LOCATION; SEE TYPICAL DETAILS
- = SLOPE SLAB APPROX. 1/4"/FT. MATCH ADJACENT CIVIL SIDEWALL ELEVATIONS.
- = SAWN CONTRACTION JOINT OR CONSTRUCTION JOINT; CONTRACTOR'S OPTION.
- = SLAB DEPRESSION; SEE PLAN FOR DEPRESSION EXTENTS AND DEPRESSION DEPTH BELOW REF. EL: 0'-0"
- = 8" MINIMUM THICKNESS SLAB-ON-GRADE REINFORCED WITH #4 @ 8" O.C. WITH 2" CLR. TO TOP OF SLAB. SLAB SHALL BE PLACED OVER A VAPOR BARRIER AND CAPILLARY BREAK AS INDICATED IN THE GENERAL NOTES SECTION 2.08 ON SHEET S-001.
- = 4" MINIMUM THICKNESS SLAB-ON-GRADE REINFORCED WITH WWF 6x6 W2.0xW2.0 WITH 1 1/2" CLR. TO TOP OF SLAB. SLAB SHALL BE PLACED OVER A VAPOR BARRIER AND CAPILLARY BREAK AS INDICATED IN THE GENERAL NOTES SECTION 2.08 ON SHEET S-001.
- = (2) #4x4'-0" RE-ENTRANT CRACK CONTROL REINF. W/1" CLR TO TOP OF SLAB

- C1 = 8"x8" NOMINAL CMU COLUMN REINF. W/ (1) #5 BAR LOCATED IN CENTER OF COLUMN. WRAP COLUMN WITH 4" NOMINAL CMU VENEER UP TO REF. EL* 2'-8" SEE DETAIL 3/S-302
- C2 = 12" NOMINAL CMU PILASTER REINF. W/ (8) #5 BARS LOCATED 3" FROM FACE OF CMU. FACE PILASTER WITH 4" NOMINAL CMU VENEER UP TO REF. EL* 2'-8" SEE DETAIL 4/S-302
- ⊕ = 6" STANDARD PIPE BOLLARD FILLED WITH CONCRETE; SEE DETAIL 4/S-301



SMALL HIP TRUSS FRAMING BY TRUSS MFR./DESIGNER, PROVIDE TRUSS HANGERS TO FACE OF CMU WALL TO SUPPORT TRUSS FRAMING, ASSUME WALL IS NOT GROUTED.

TRUSS OVERFRAMING BELOW, BY TRUSS MFR./DESIGNER

PROVIDE ADD'L TRUSS ALONG FACE OF WALL BELOW, SEE DETAILS

TRUSS MFR. NOTE: OUTSIDE FACE OF BEARING WALLS; TYPICAL GRIDLINE IS LOCATED ON FACE OF 12\"/>

TRUSS TO WALL ATTACHMENT SCHEDULE	
TRUSS MARK	SIMPSON CONNECTOR**
TYPICAL TRUSS	H10A @ EXTERIOR / H2.5A @ INTERIOR
CORNER JACK TO WALL	H1 @ EXTERIOR / H2.5a @ INTERIOR
END JACK TO WALL	H1 @ EXTERIOR / H2.5a @ INTERIOR
HIP JACK	HCP2 @ EXTERIOR / HCP2 @ INTERIOR
#1 HIP*	MGT W/ SET EPOXY. EMBED BOLT 12\"/>

*SEE DETAIL 5/S-302
 ** SEE SECTIONS 6.01-4 OF GENERAL NOTES ON SHEET S-001 FOR ADDITIONAL CONNECTOR NOTES.

ROOF FRAMING PLAN

1 S-120 1/4" = 1'-0"



ROOF FRAMING NOTES AND LEGEND

TIMBER ROOF TRUSS MFR. NOTES:

1. PROVIDE TRUSSES AT 2'-0" O.C. MAX SPACING. DESIGN TRUSSES TO RESIST ALL LOADS AS DEFINED IN SECTION 1 OF THE GENERAL NOTES ON SHEET S-001.
2. PROVIDE 2x6 BLOCKING AT ALL RIDGE AND HIP LOCATIONS
3. DESIGN AND DETAIL ALL TEMPORARY AND PERMANENT TRUSS BRACING BLOCKING AND BRIDGING.
4. PROVIDE ALL TRUSS TO TRUSS CONNECTIONS AND THEIR REQUIRED CONNECTORS.
5. PROVIDE 2x6 MINIMUM TRUSS TOP CHORD.
6. TRUSS DESIGN AND SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A REGISTERED STRUCTURAL ENGINEER IN THE STATE OF FLORIDA.

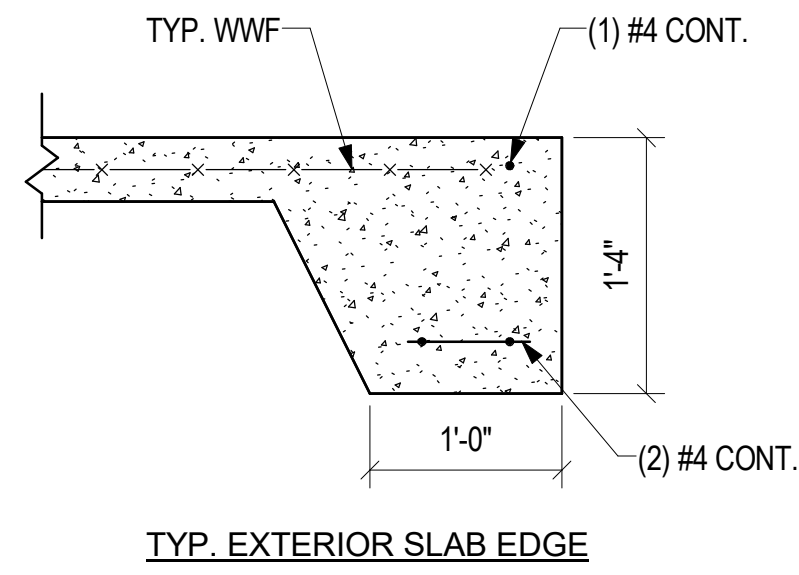
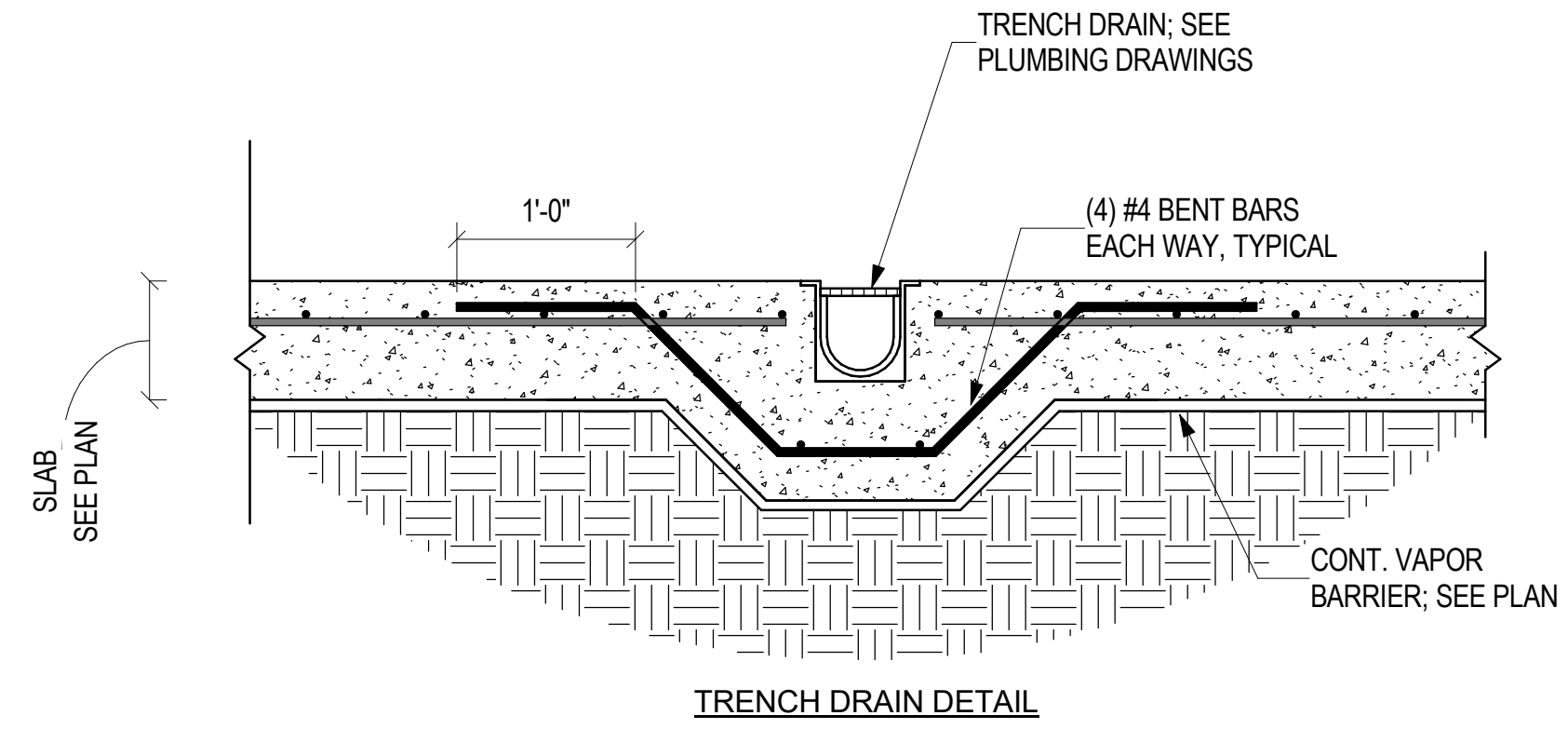
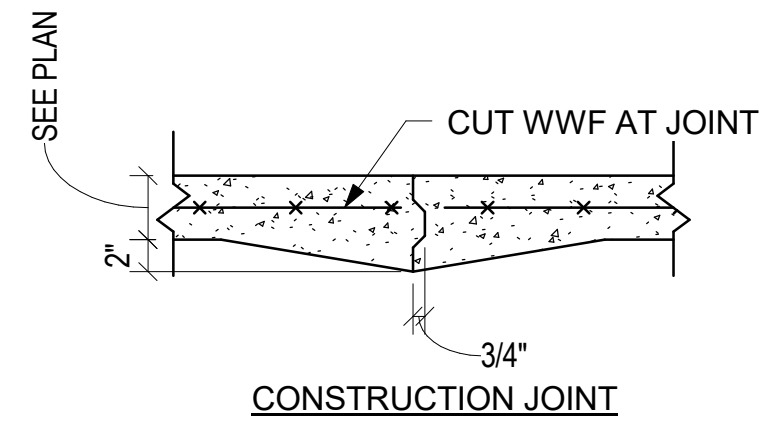
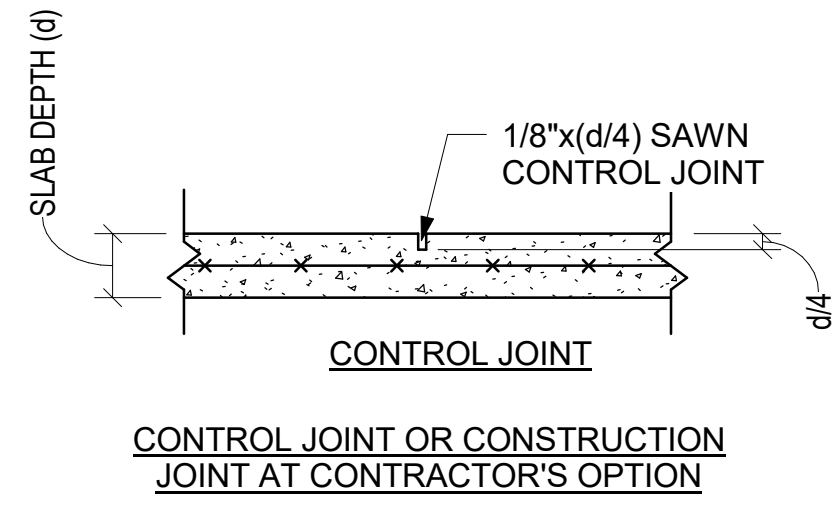
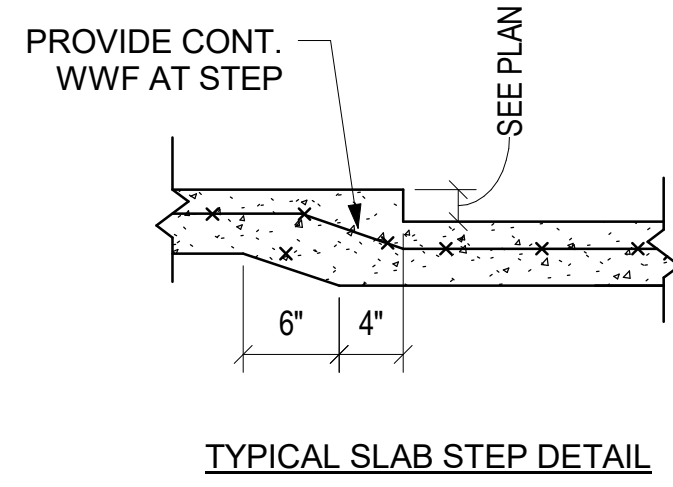
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ROOF FRAMING PLAN

S-120

PROJECT NO.	DATE	APPR.	REVISION/ACTION TAKEN
25698.03			
DESIGNED BY: ICM			
DRAWN BY: ICM			
CHK'D BY: LJD			
PROJ. MGR:			
DATE: JULY 2016			

NOT RELEASED FOR CONSTRUCTION BY DATE: / /



1 SLAB-ON-GRADE DETAILS
S-501 1" = 1'-0"

100% RTA SUBMITTAL

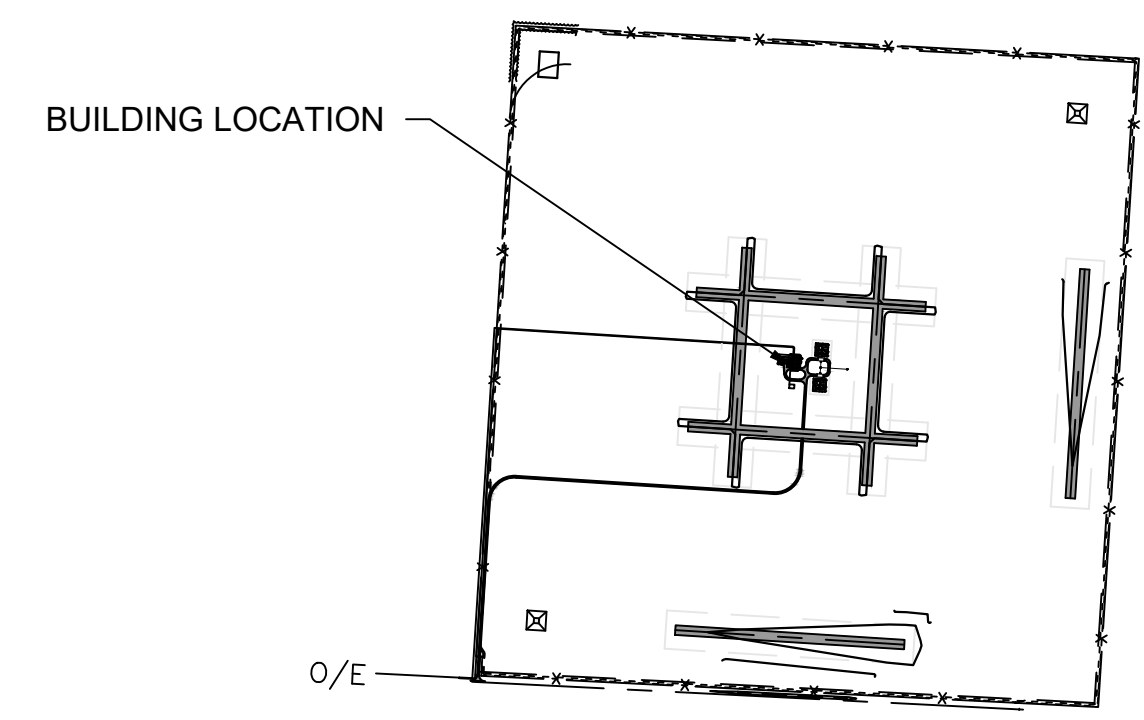
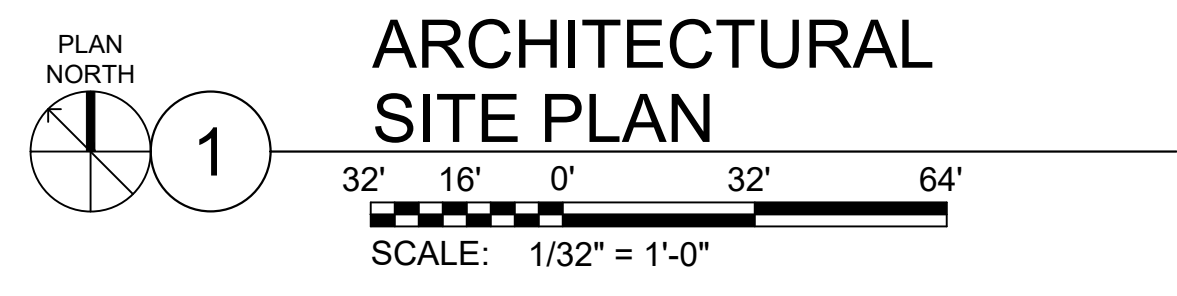
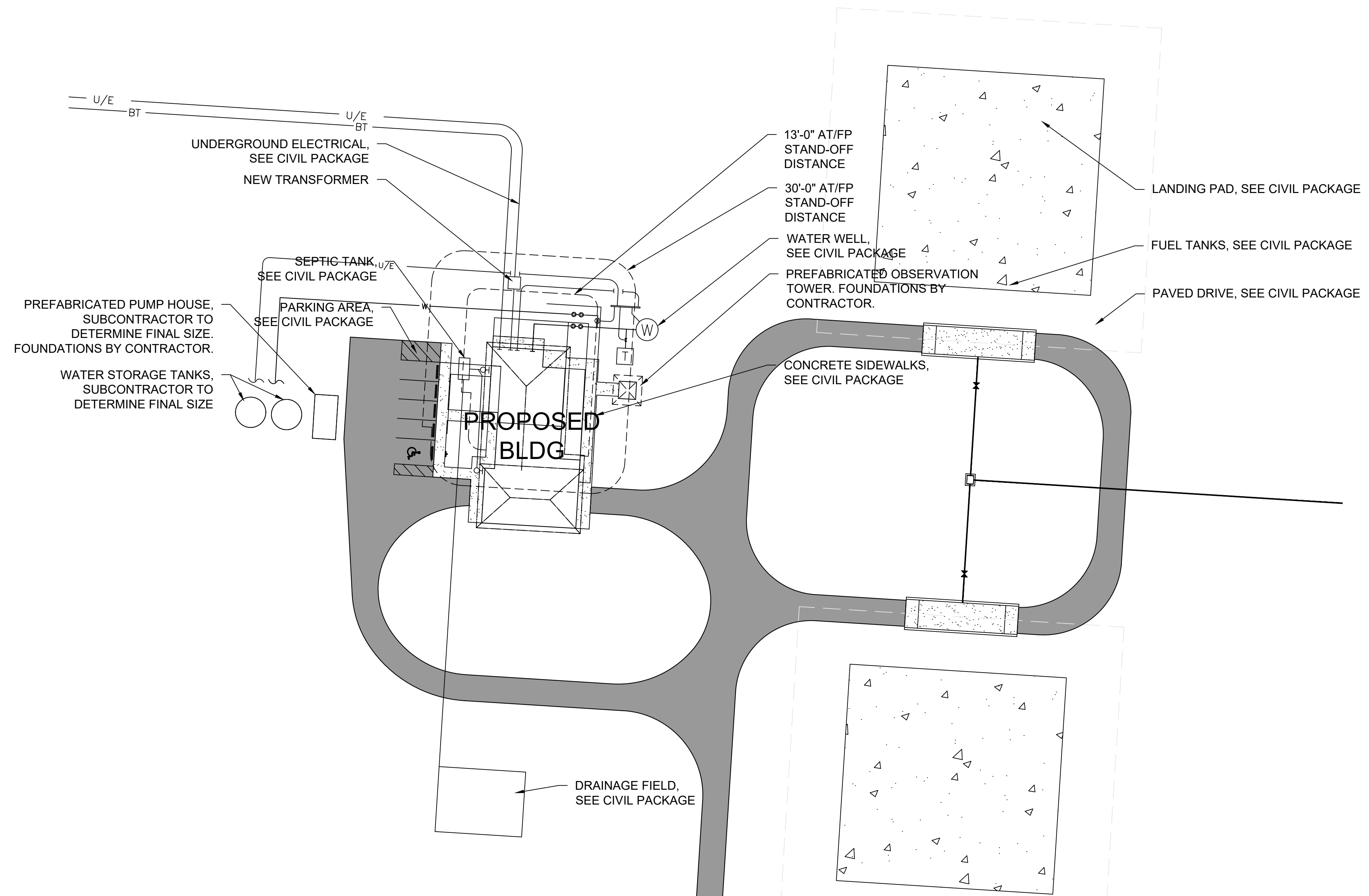
TYPICAL FOUNDATION AND SLAB-ON-GRADE DETAILS

S-501

PROJECT NO.	NO.	DATE	APPR.	REVISION/ACTION TAKEN
25698.03				
DESIGNED BY: ICM				
DRAWN BY: ICM				
CHK'D BY: LJD				
PROJ. MGR: —				
DATE: JULY 2016				

OLF-X
PHASE II - AIRFIELD

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GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING ALL NEW WORK
2. THE CONTRACTOR SHALL COORDINATE ALL UTILITY CONNECTIONS WITH PLUMBING, ELECTRICAL AND COMMUNICATION.
3. CONTRACTOR SHALL COORDINATE WITH OWNER EXACT LOCATION OF OBSERVATION TOWER.
4. REFER TO CIVIL PACKAGE FOR ADDITIONAL INFORMATION ON SITE WORK RELATED ACTIVITIES.
5. SOD ALL DISTURBED AREAS AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT. REFER TO CIVIL PACKAGE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. REFER TO SHEET A-220 FOR ADDITIONAL INFORMATION ON OBSERVATION TOWER.

BASKERVILLE-DONOVAN, INC.
 Innovative Infrastructure Solutions
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 ENGINEERING BUSINESS: ED-00003040
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OLF-X
 PHASE II - AIRFIELD

NO.	DATE	APPR.	REVISION/ACTION TAKEN

PROJECT NO: 25898.03
 DESIGNED BY: DB
 DRAWN BY: YS
 CHK'D BY: CR
 PROJ. MGR: -
 DATE: JULY 2016
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ARCHITECTURAL
 SITE PLAN

A-100

"FOR REFERENCE ONLY"

PROPERTY PLAN

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NO.	DATE	APPR.	REVISION/ACTION TAKEN

PROJECT NO:	25898.03
DESIGNED BY:	YS
DRAWN BY:	YS
CHK'D BY:	CR
PROJ. MGR.:	-
DATE:	JULY 2016

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FLOOR PLAN
 A-121

LEGEND

- METAL STUD PARTITION
- WOOD STUD PARTITION
- FD FLOOR DRAIN, SEE PLUMBING
- FCO FLOOR CLEAN OUT, SEE PLUMBING
- CG-1 CORNER GUARD, SEE FINISH SCHEDULE
- CG-2 END GUARD, SEE FINISH SCHEDULE
- 2 HOUR RATED ASSEMBLY, SEE LIFE SAFETY PLAN
- DOTTED FURNITURE SHOWN FOR REFERENCE ONLY NOT IN CONTRACT
- EWC ELECTRIC WATER COOLER, SEE PLUMBING
- DS/SB PREFINISHED METAL DOWNSPOUT AND 2'-0" WIDE BY 3'-0" LONG SPLASH BLOCK
- SIGNAGE REFER TO SHEET A-700
- 4'-0" TALL, 6" DIAMETER CONCRETE FILLED BOLLARD, SEE STRUCTURAL

KEYNOTES

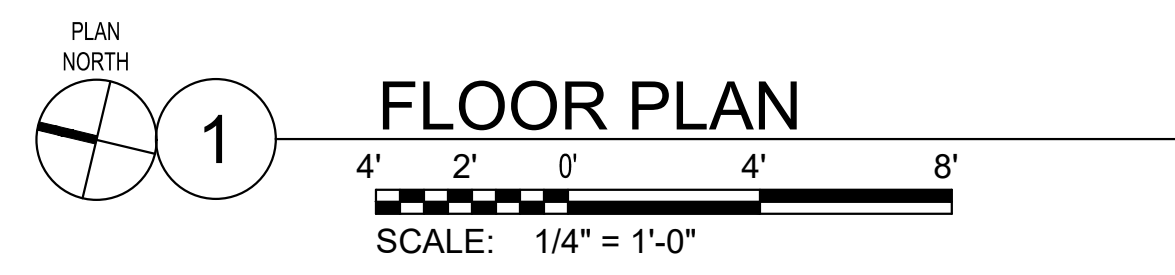
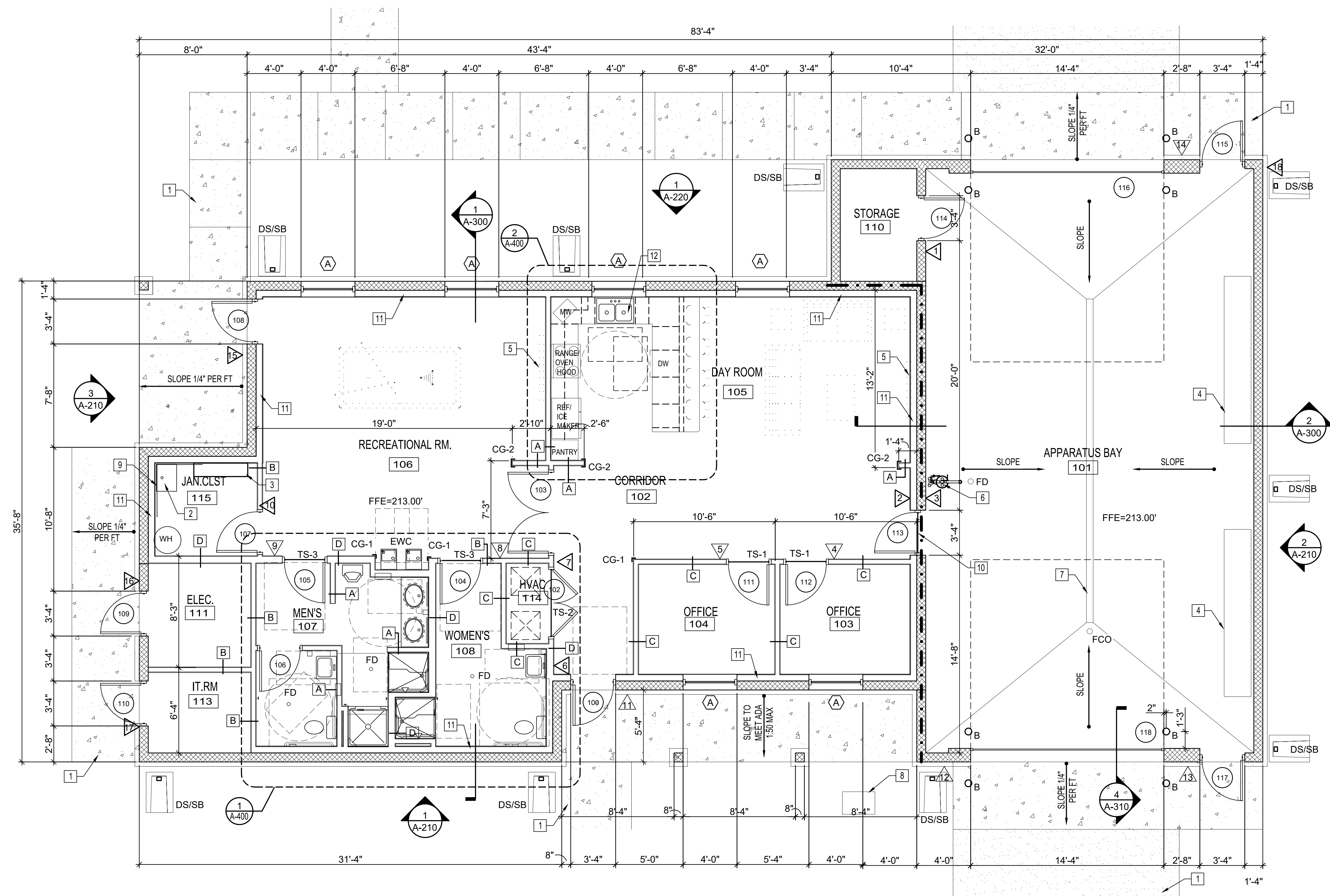
- 1 PAVED AREA, REFER TO CIVIL PACKAGE
- 2 FLOOR SINK, SEE PLUMBING
- 3 PROVIDE 4'-0" WIDE BY 12" DEEP STAINLESS STEEL SHELVING WITH MOP HOLDER
- 4 PREFINISHED STEEL LOCKERS, SEE SHEET A-700
- 5 PROVIDE WALL BLOCKING AT THIS LOCATION FOR FUTURE WALL MOUNTED EQUIPMENT.
- 6 EYE WASH STATION, SEE PLUMBING DRAWINGS
- 7 TRENCH DRAIN, SEE PLUMBING DRAWINGS
- 8 OIL AND WATER SEPARATOR COVER, SEE PLUMBING DRAWINGS
- 9 40" WIDE BY 40" TALL FIBER REINFORCED WALL PANEL, SEE PRODUCT INFORMATION ON SHEET A-700
- 10 UL RATED ALUMINUM THRESHOLD FOR INSTALLATION ON 1 1/2 HR RATED DOOR ASSEMBLY. INSTALL ON FULL BED OF SEALANT.
- 11 PROVIDE 6" MINIMUM CLEARANCE BETWEEN FACE OF STUD AND CMU WALL. SEE WALL SECTIONS ON SHEET A-310.
- 12 RUN FLOORING UNDERNEATH SINK, SEE DETAIL 3/A-420

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES, IF CONFLICTS ARISE CONTACT ARCHITECT.
2. THE CONTRACTOR SHALL PROVIDE REINFORCING BLOCKING BEHIND MOUNTED AND CEILING EQUIPMENT. COORDINATE WITH AV, DATA, FIRE ALARM AND ELECTRICAL DRAWINGS.
3. CONTRACTOR SHALL COORDINATE WORK WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
4. REFER TO FINISH SCHEDULE ON SHEET A-600 FOR SURFACE FINISHES.

WALL TYPES (SEE A-510)

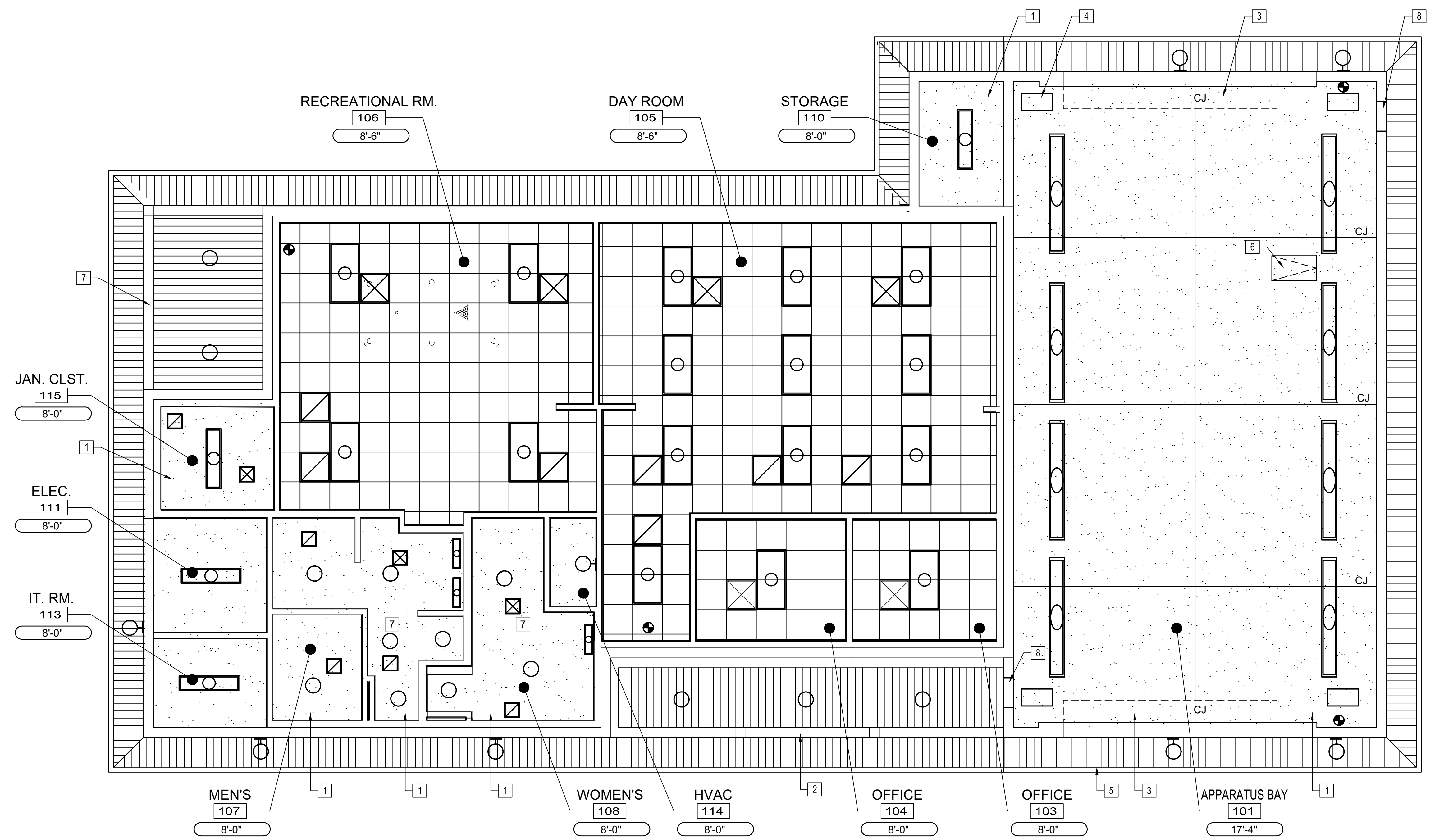
- A 5/8" GYPSUM WALLBOARD ON 2X4 WOOD STUDS @ 16" O.C., EXTEND 6" ABOVE FINISH CEILING.
- B 5/8" GYPSUM WALLBOARD ON 2X4 WOOD STUDS @ 16" O.C., EXTEND TO UNDERSIDE OF WOOD DECKING
- C 5/8" GYPSUM WALLBOARD ON 2X4 WOOD STUDS @ 16" O.C. INFILL WITH 1 1/2" ACOUSTICAL BATT INSULATION, EXTEND TO UNDERSIDE OF WOOD DECKING
- D 5/8" GYPSUM WALLBOARD ON 2X6 WOOD STUDS @ 16" O.C. INFILL WITH 1 1/2" ACOUSTICAL BATT INSULATION, EXTEND TO UNDERSIDE OF WOOD DECKING



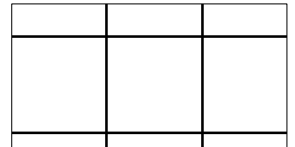

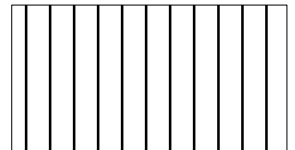

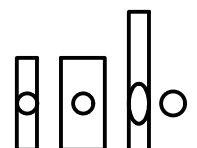

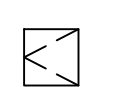
FLOOR PLAN

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LEGEND

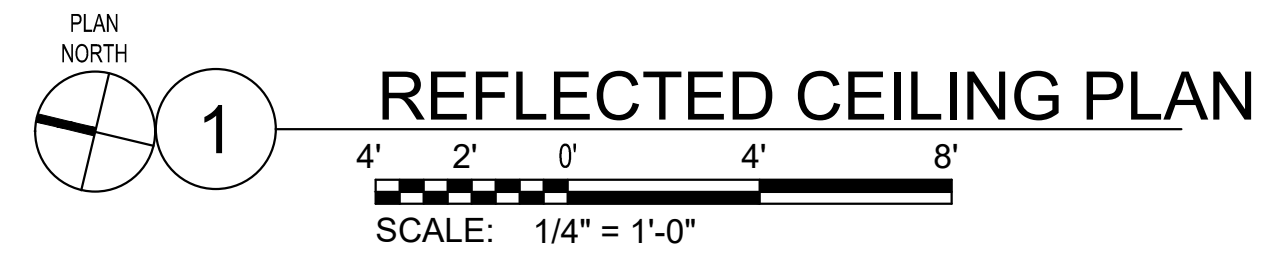
-  2' X 2' ACOUSTICAL CEILING TILE, SEE FINISH SCHEDULE ON SHEET A-600
-  GYPSUM WALLBOARD CEILING, SEE FINISH SCHEDULE ON SHEET A-600
-  PREFINISHED METAL VENTED SOFFIT PANEL, SEE FINISH SCHEDULE ON SHEET A-600
-  CJ GYPSUM CEILING CONTROL JOINT
-  LIGHT FIXTURES, SEE ELECTRICAL DRAWINGS
-  DIFFUSERS, SEE MECHANICAL DRAWINGS
-  ACCESS PANELS, COORDINATE WITH MECHANICAL FOR EXACT LOCATION OF VALVES ABOVE HARD CEILINGS

KEYNOTES

- 1 MOISTURE RESISTANT GYPSUM WALLBOARD
- 2 PAINTED UNDERSIDE OF CMU BOND BEAM. COLOR TO MATCH CMU FACE.
- 3 OVERHEAD COILING DOOR HOOD, SEE DOOR SCHEDULE AND DETAILS
- 4 ELECTRIC HEATERS, SEE MECHANICAL AND ELECTRICAL DRAWINGS
- 5 UPPER SOFFIT AT APPARATUS BAY ROOF
- 6 GALVANIZED METAL ATTIC ACCESS PANEL (20"X36")
- 7 PROVIDE ACCESS PANELS AS REQUIRED, SEE PLUMBING DRAWINGS
- 8 LOUVERS, SEE MECHANICAL DRAWINGS

GENERAL NOTES

- 1. CONTRACTOR SHALL COORDINATE WORK WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
- 2. REFER TO FINISH SCHEDULE ON SHEET A-600 FOR SURFACE FINISHES.
- 3. REFER TO SHEET A-510 FOR ADDITIONAL INFORMATION ON WALL TYPE ASSEMBLIES.
- 4. INSTALL MOISTURE RESISTANT GYPSUM WALLBOARD IN APPARATUS BAY CEILING AREA 101 AND IN STORAGE ROOM 110.



BASKERVILLE-DONOVAN, INC.
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ENGINEERING BUSINESS: ED-0000340
Pensacola - Panama City Beach - Tallahassee - Mobile - Breward County - Tampa
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PROJECT NO: 25898.03
DESIGNED BY: YS
DRAWN BY: YS
CHK'D BY: CR
PROJ. MGR: -
DATE: JULY 2016

NO. DATE APPR. REVISION/ACTION TAKEN

NOT RELEASED FOR CONSTRUCTION BY DATE

OLF-X
PHASE II - AIRFIELD

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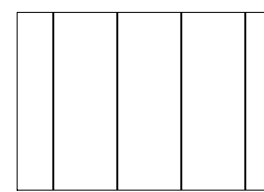
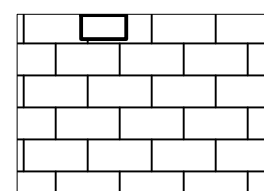
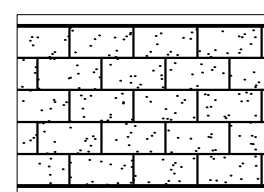
REFLECTED CEILING PLAN

A-151

NO.	DATE	APPR.	REVISION/ACTION TAKEN

PROJECT NO: 25898.03	DESIGNED BY: YS	CHK'D BY: CR	PROJ. MGR: -	DATE: JULY 2016
NOT RELEASED FOR CONSTRUCTION BY				
DATE				

LEGEND

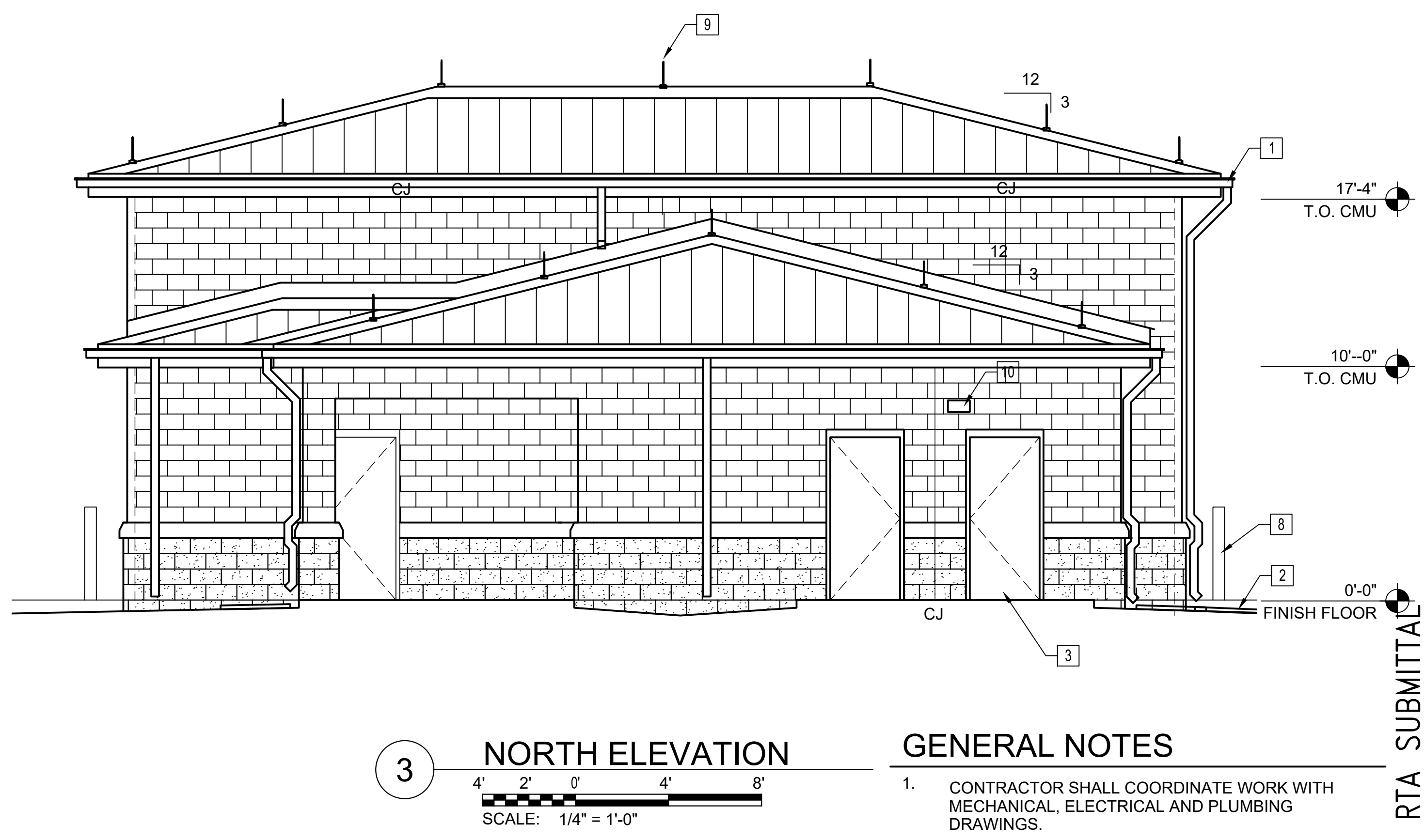
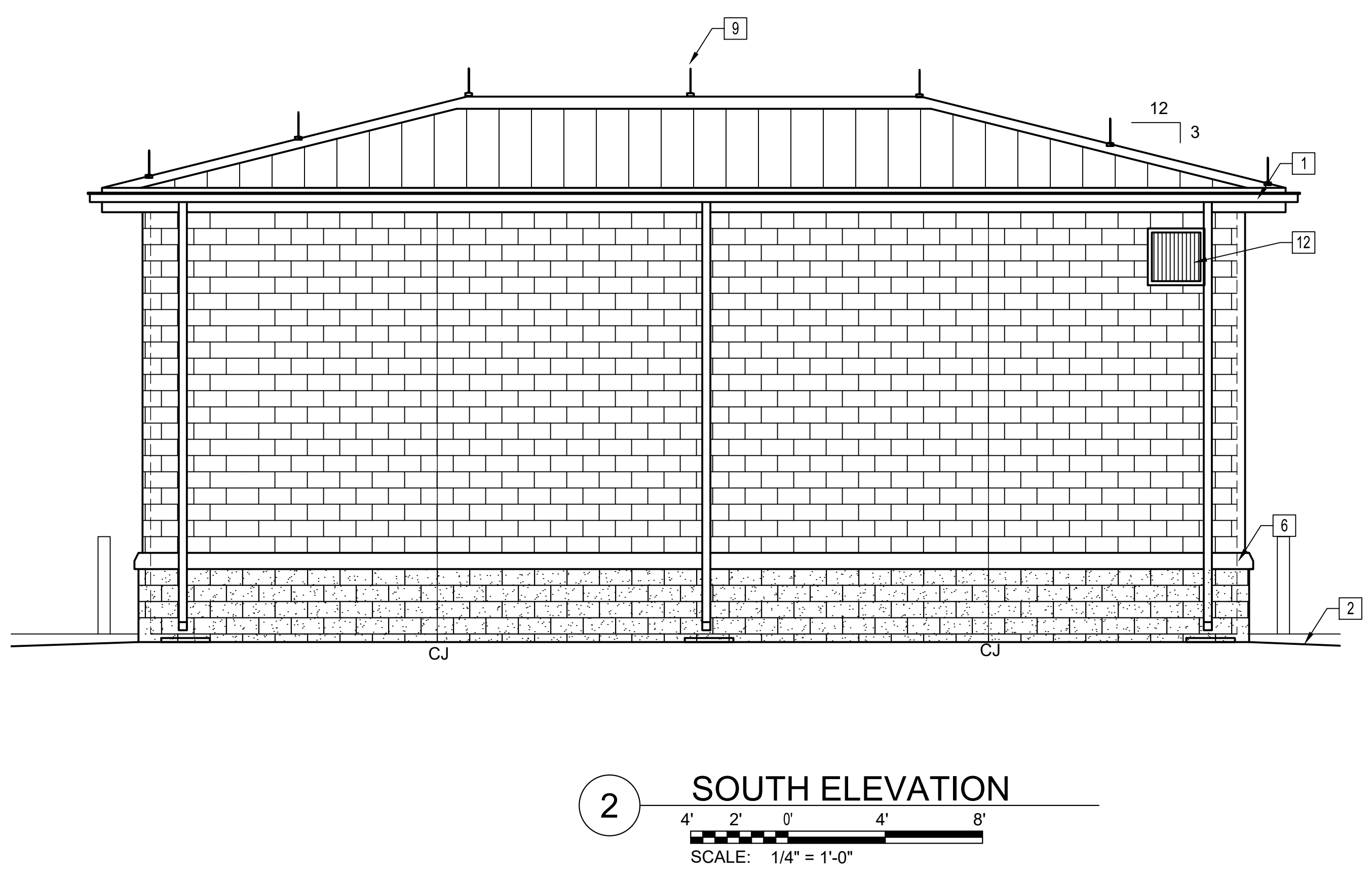
-  PREFINISHED STANDING SEAM METAL ROOF
-  8" PAINTED LOAD BEARING CMU, SEE STRUCTURAL
-  12" PAINTED LOAD BEARING CMU, SEE STRUCTURAL
- CJ CONTROL JOINTS

KEYNOTES

- 1 PREFINISHED METAL GUTTER AND DOWNSPOUT
- 2 24" X 36" CONCRETE SPLASHBLOCK
- 3 INSULATED HOLLOW METAL DOOR AND FRAMES, SEE DOOR SCHEDULE
- 4 FULLY GLAZED HOLLOW METAL DOOR, SEE DOOR SCHEDULE
- 5 PREFINISHED ALUMINUM WINDOW, SEE WINDOW SCHEDULE
- 6 PRECAST CONCRETE TRANSITION SILL
- 7 INSULATED OVERHEAD COILING DOORS, SEE DOOR SCHEDULE
- 8 6" DIAMETER CONCRETE FILLED STEEL BOLLARDS, SEE STRUCTURAL
- 9 LIGHTNING PROTECTION, SEE ELECTRICAL DRAWINGS
- 10 LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- 11 FUTURE LIGHT MAST, NIC. REFER TO ELECTRICAL DRAWINGS
- 12 LOUVER, ALIGN TOP OF LOUVER BELOW CEILING WITHIN COURSING, SEE MECHANICAL DRAWINGS

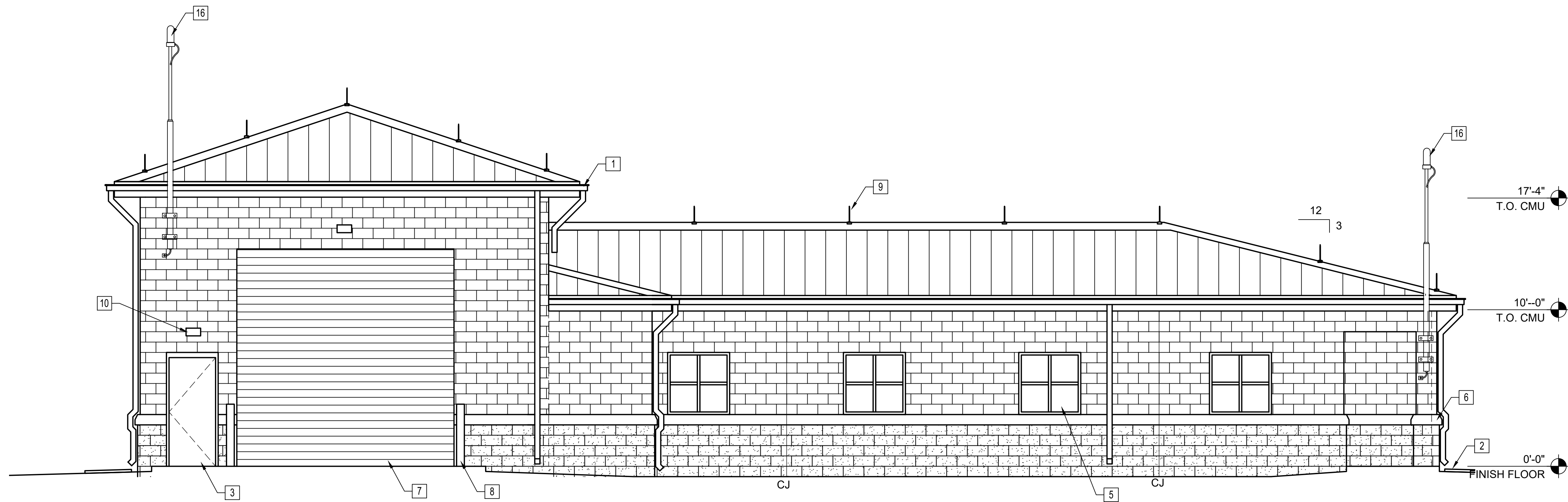
GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE WORK WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
2. REFER TO FINISH SCHEDULE ON SHEET A-600 FOR SURFACE FINISHES.

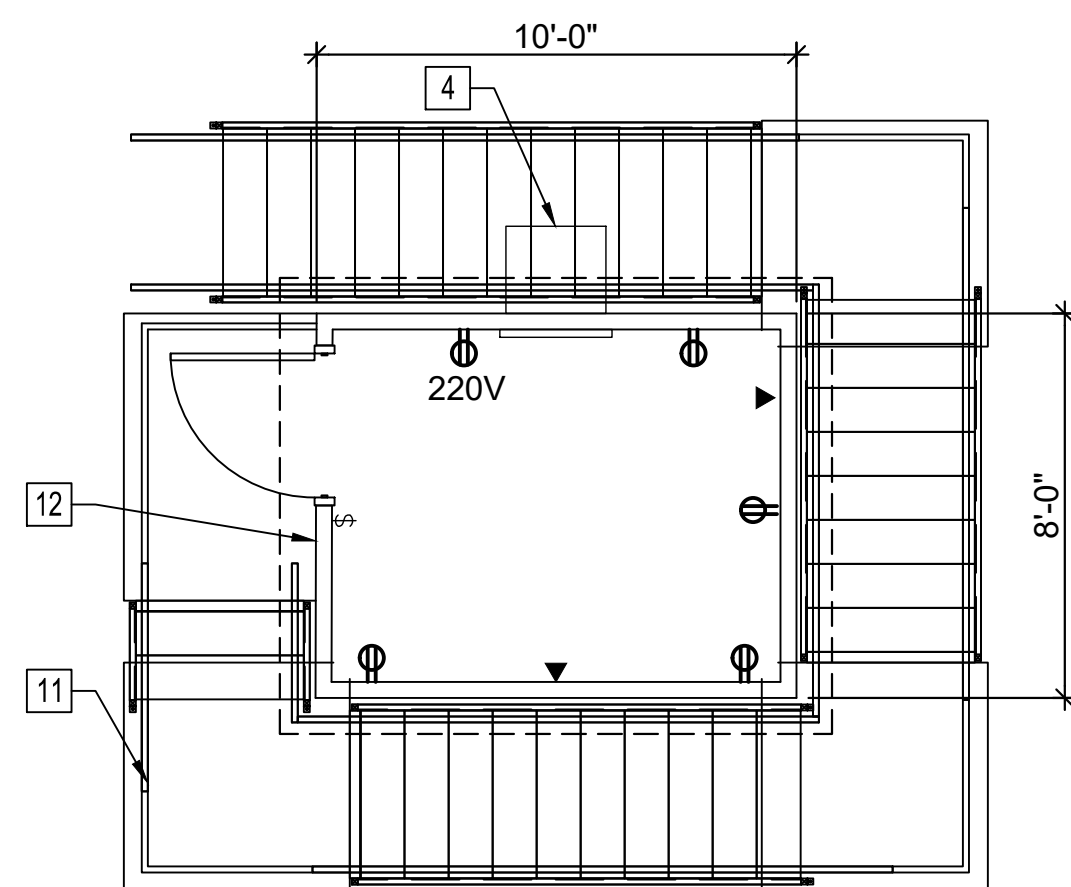


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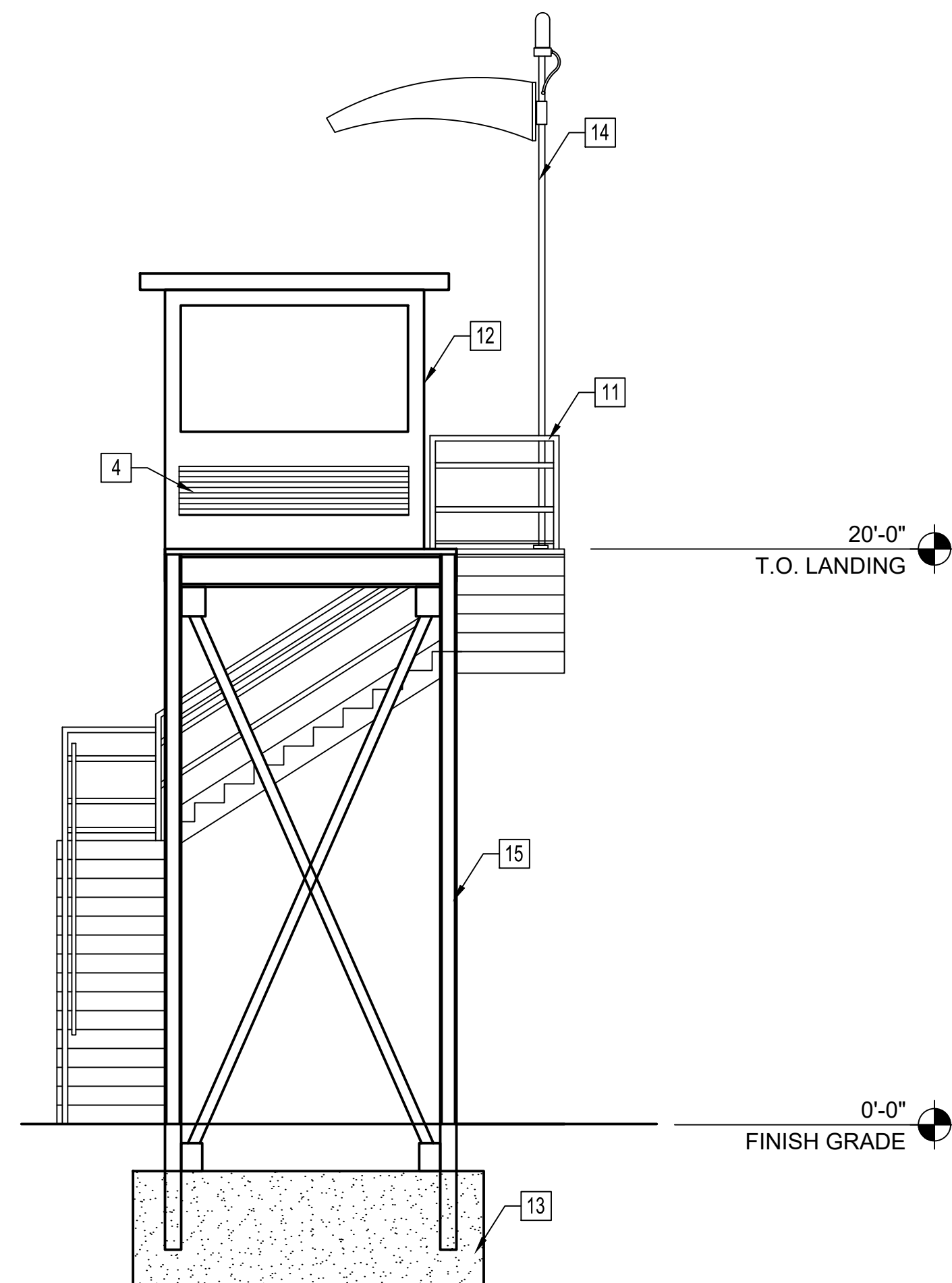
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1 WEST ELEVATION
 SCALE: 1/4" = 1'-0"

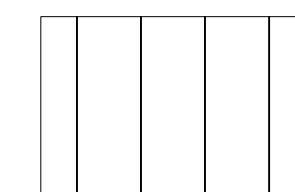
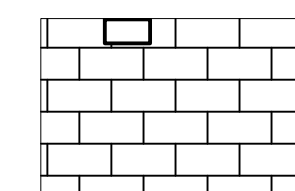
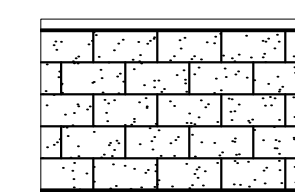
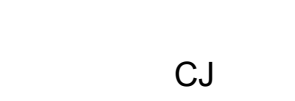


3 OBSERVATION TOWER PLAN
 SCALE: 1/4" = 1'-0"



2 OBSERVATION TOWER ELEVATION
 SCALE: 1/4" = 1'-0"

LEGEND

-  PREFINISHED STANDING SEAM METAL ROOF
-  8" PAINTED LOAD BEARING CMU, SEE STRUCTURAL
-  12" PAINTED LOAD BEARING CMU, SEE STRUCTURAL
-  CJ CONTROL JOINTS

KEYNOTES

- 1 PREFINISHED METAL GUTTER AND DOWNSPOUT
- 2 24" X 36" CONCRETE SPLASHBLOCK
- 3 INSULATED HOLLOW METAL DOOR AND FRAMES, SEE DOOR SCHEDULE
- 4 HVAC UNIT BY PREMANUFACTURED BOOTH ENCLOSURE COMPANY.
- 5 PREFINISHED ALUMINUM WINDOW, SEE WINDOW SCHEDULE
- 6 PRECAST CONCRETE TRANSITION SILL
- 7 INSULATED OVERHEAD COILING DOORS, SEE DOOR SCHEDULE
- 8 6" DIAMETER CONCRETE FILLED STEEL BOLLARDS, SEE STRUCTURAL
- 9 LIGHTNING PROTECTION, SEE ELECTRICAL DRAWINGS
- 10 LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- 11 GALVANIZED RAILING SYSTEM PER PREENGINEERED TOWER COMPANY
- 12 8' W X 10' L X 8' TALL PREMANUFACTURER OBSERVATION BOOTH BY PREENGINEERED TOWER COMPANY
- 13 CONCRETE FOUNDATIONS, REFER TO STRUCTURAL DRAWINGS OR ENGINEERED SHOP DRAWINGS. SEE GENERAL NOTE 1-6
- 14 GALVANIZED METAL POLE WITH FAA APPROVED 18" DIAMETER WINDSOCK WITH INTERNAL LIGHT AND A NVG COMPATIBLE LIGHT AT TOP. PROVIDE IR LIGHT INSIDE WINDSOCK. SEE ELECTRICAL FOR ADDITIONAL INFORMATION.
- 15 GALVANIZED STEEL FRAME BY PREENGINEERED TOWER COMPANY.
- 16 FUTURE LIGHT MAST, NIC. PROVIDE ROUGH-IN CONDUITS AND LOCATE SWITCH INSIDE. REFER TO ELECTRICAL FOR ADDITIONAL INFORMATION.

GENERAL NOTES

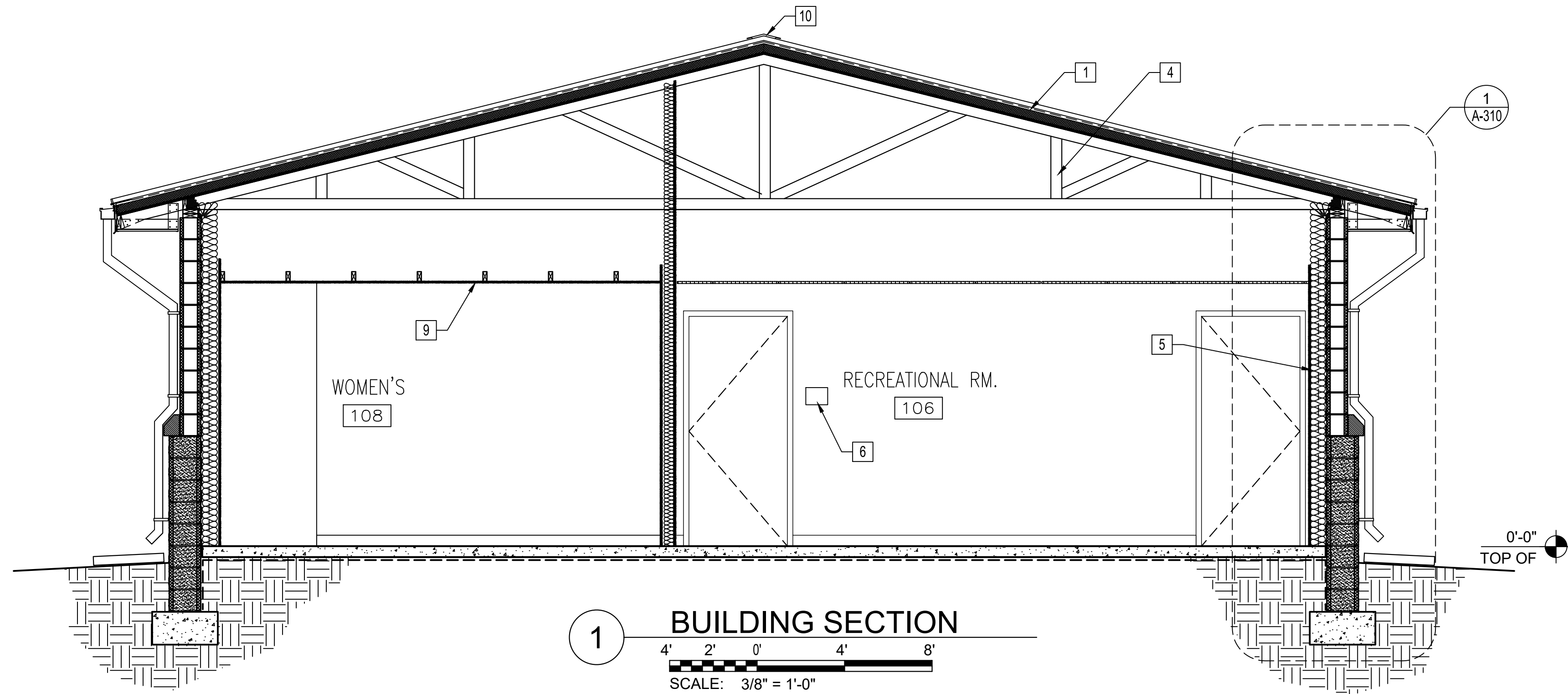
1. CONTRACTOR SHALL COORDINATE WORK WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
2. REFER TO FINISH SCHEDULE ON SHEET A-600 FOR SURFACE FINISHES.
3. CONTRACTOR SHALL PROVIDE POWER TO TOWER. FIELD COORDINATE WITH TOWER FABRICATOR. BASIS OF DESIGN: PANEL BUILT, INC.
4. ERECT TOWER PER MANUFACTURER'S INSTRUCTION AND SPECIFICATIONS. BASIS OF DESIGN: PANEL BUILT, INC.
5. COORDINATE LIGHTING REQUIREMENTS TO TOWER WITH OWNER, REFER TO ELECTRICAL DRAWINGS.
6. PROVIDE LIGHTNING PROTECTION TO TOWER, REFER TO ELECTRICAL DRAWINGS.
7. CONTRACTOR SHALL SUBMIT TOWER AND BOOTH ASSEMBLIES FOR FINAL APPROVAL AND COLOR SELECTIONS WITH OWNER/COUNTY.
8. CONTRACTOR SHALL COORDINATE FUTURE LIGHT MAST WITH USER/OWNER PRIOR INSTALLING ROUGH-IN CONDUIT AND JUNCTION BOX PLACEMENT. REFER TO ELECTRICAL.

NO.	DATE	APPR.	REVISION/ACTION TAKEN

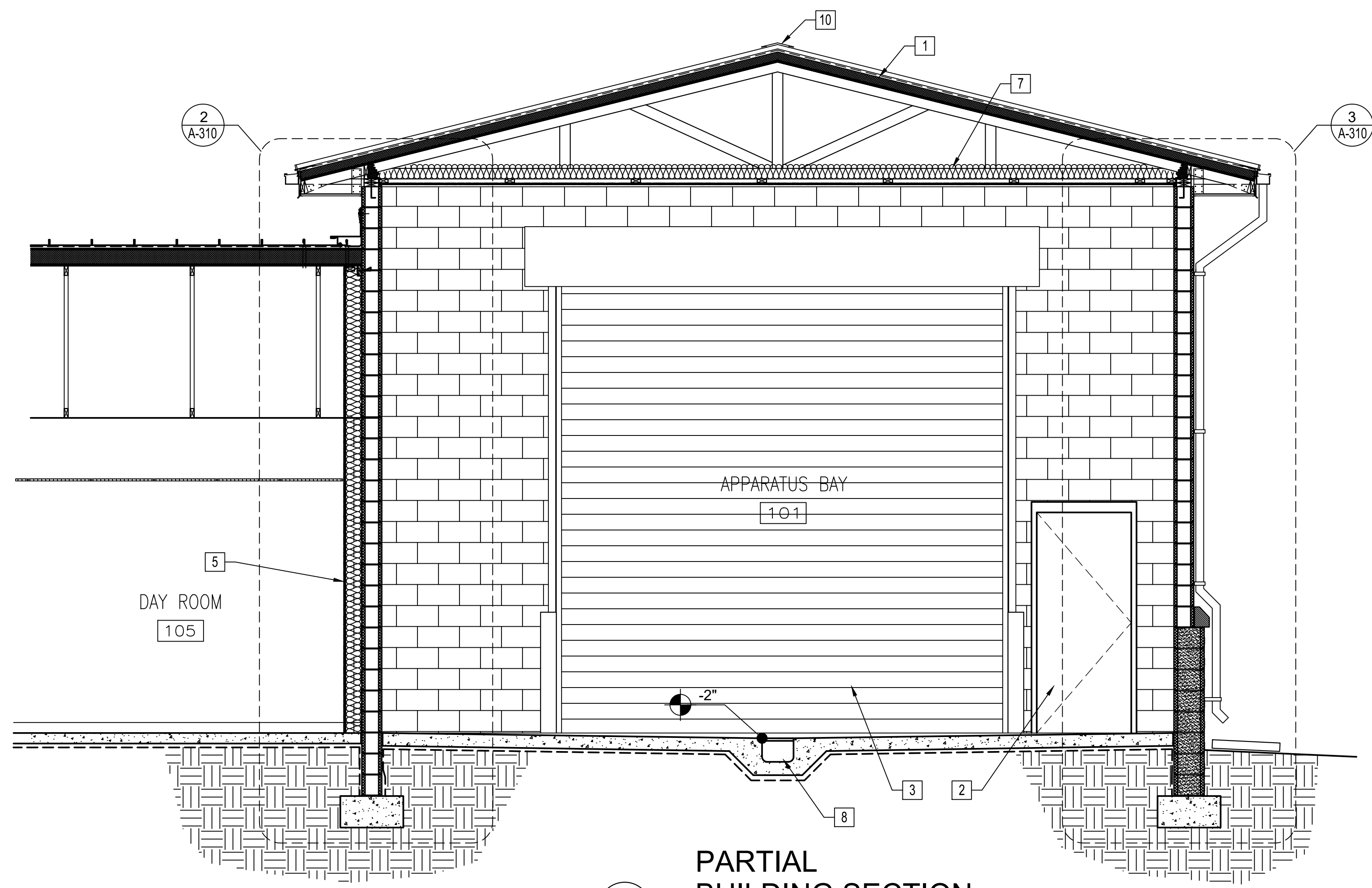
PROJECT NO:	25898.03
DESIGNED BY:	YS
DRAWN BY:	YS
CHK'D BY:	CR
PROJ. MGR.:	-
DATE:	JULY 2016

100% RTA SUBMITTAL

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1 BUILDING SECTION
 SCALE: 3/8" = 1'-0"



2 PARTIAL BUILDING SECTION
 SCALE: 3/8" = 1'-0"

KEYNOTES

- 1 STANDING SEAM METAL ROOF OVER AIR/VAPOR BARRIER OVER COVER BOARD OVER R-38 RIGID INSULATION OVER 3/4" PLYWOOD
- 2 INSULATED HOLLOW METAL DOOR AND FRAMES, SEE DOOR SCHEDULE
- 3 INSULATED OVERHEAD COILING DOOR, SEE DOOR SCHEDULE
- 4 PREENGINEERED WOOD TRUSS, SEE STRUCTURAL
- 5 GYPSUM WALL BOARD OVER 2X4 WOOD STUDS @ 16" O.C. WITH R-19 BATT INSULATION
- 6 SIGNAGE, REFER TO SHEET A-700
- 7 STANDING SEAM METAL ROOF OVER AIR/VAPOR BARRIER OVER PLYWOOD DECKING WITH R-38 UNFACED BATT INSULATION IN ATTIC SPACE
- 8 TRENCH DRAIN, SEE PLUMBING DRAWINGS
- 9 5/8" MOISTURE RESISTANT GYPSUM WALLBOARD ON 2X4 WOOD FRAMING. SECURE TO STRUCTURE ABOVE. PROVIDE ADDITIONAL BRACING AS REQUIRED.
- 10 PREFINISHED METAL NON-VENTED RIDGE CAP

GENERAL NOTES

- 1. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING ALL NEW WORK.
- 2. THE CONTRACTOR SHALL PROVIDE REINFORCING BEHIND WALL MOUNTED AND CEILING EQUIPMENT. COORDINATE WITH A/V, DATA AND ELECTRICAL DRAWINGS.
- 3. CONTRACTOR SHALL COORDINATE WORK WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
- 4. REFER TO FINISH SCHEDULE ON SHEET A-600 FOR SURFACE FINISHES.
- 5. REFER TO SHEET A-510 FOR ADDITIONAL INFORMATION ON WALL TYPE ASSEMBLIES.

NO.	DATE	APPR.	REVISION/ACTION TAKEN

PROJECT NO: 25898.03	DESIGNED BY: YS	DRAWN BY: YS	CHK'D BY: CR	PROJ. MGR: -	DATE: JULY 2016
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APPLIANCES SCHEDULE			
#	APPLIANCE	MANUFACTURER	MODEL#
1.	RANGE/OVEN	FRIGIDAIRE	FGFE306TPF
2.	DISHWASHER	FRIGIDAIRE	FPID2497RF
3.	REFRIGERATOR	FRIGIDAIRE	FGUS2647LF
4.	MICROWAVE	FRIGIDAIRE	FFCT1278LS
5.	DISPOSER	FRIGIDAIRE	FGD1753DMS
6.	HOOD	DENLAR FIRE	D1030-I-DF

KEYNOTES

- 5'-0" DIAMETER ADA TURNING RADIUS CLEARANCES
- 30" X 48" ADA CLEARANCES ADJACENT TO COUNTERS
- SOLID SURFACE COUNTERTOP AND BAR TOP. REFER TO INTERIOR ELEVATIONS.
- SOLID SURFACE VANITY TOP. REFER TO INTERIOR ELEVATIONS.
- SOLID SURFACE WINDOW STOOL, REFER TO FINISH SCHEDULE ON SHEET A-600

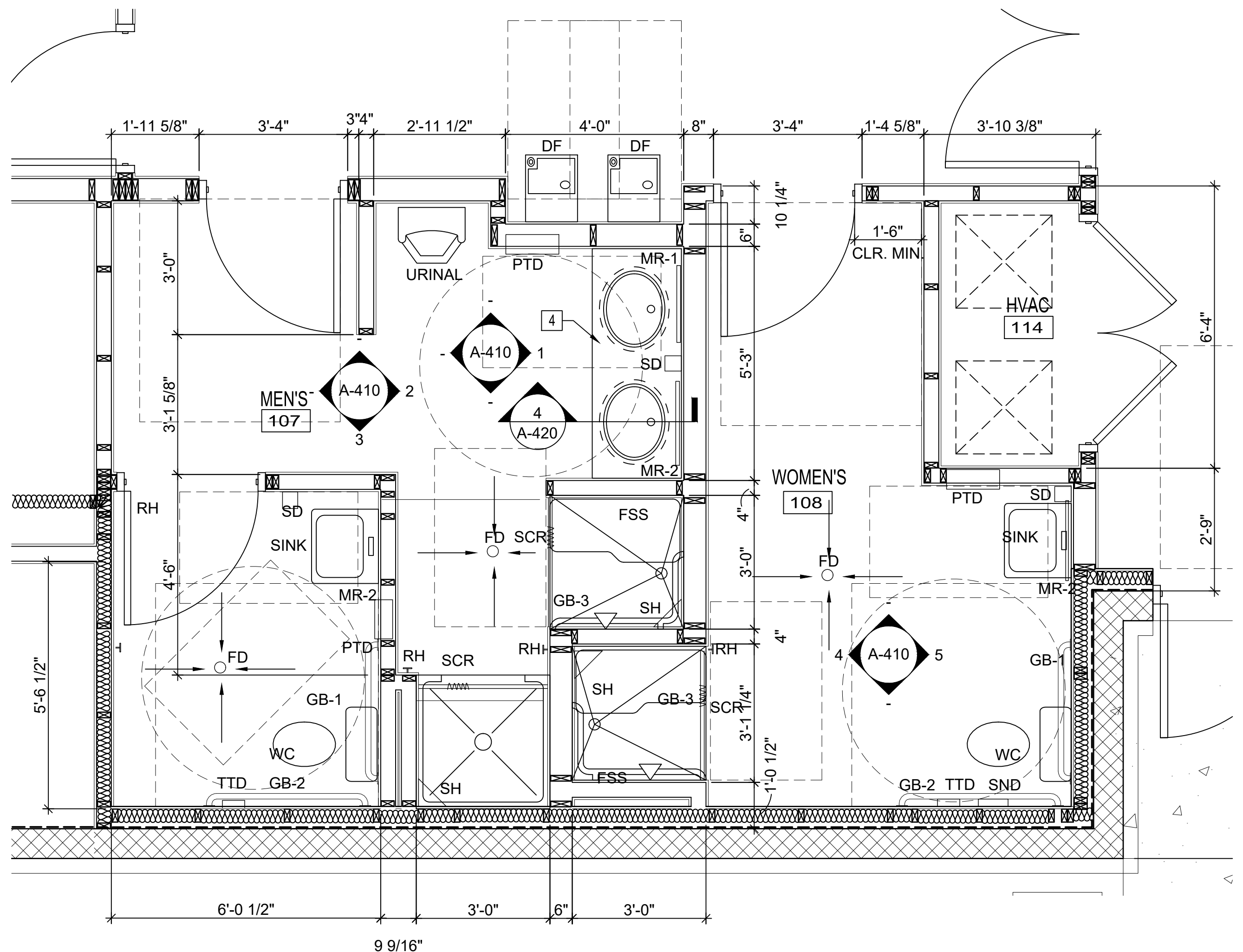
GENERAL NOTES

- THE CONTRACTOR SHALL PROVIDE REINFORCING AND BLOCKING BEHIND WALL MOUNTED AND CEILING EQUIPMENT. COORDINATE WITH AV, DATA AND ELECTRICAL DRAWINGS.
- CONTRACTOR SHALL COORDINATE WORK WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
- REFER TO FINISH SCHEDULE ON SHEET A-600 FOR SURFACE FINISHES.
- REFER TO SHEET A-510 FOR ADDITIONAL INFORMATION ON WALL TYPE ASSEMBLIES.
- ALL APPLIANCES SHALL BE INSTALLED AND PURCHASED UNDER THIS CONTRACT. SUBMIT ALL CUT SHEET TO OWNER FOR FINAL APPROVAL. PRODUCTS SELECTED OR EQUAL.
- CONTRACTOR SHALL COORDINATE ALL APPLIANCES CLEARANCE PRIOR TO CABINET INSTALLATION.
- SPECIAL INSTALLATION REQUIRED FOR SUPPRESSION HOOD SYSTEM. CONTACT HOOD MANUFACTURER FOR ADDITIONAL INFORMATION. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS.
- ALL APPLIANCES SHALL BE ENERGY STAR RATED.
- CONTRACTOR TO SLOPE TILE 1/8" PER FOOT TOWARDS ALL INTERNAL FLOOR DRAINS. COORDINATE PLUMBING AND TILE DEPTH SELECTED.

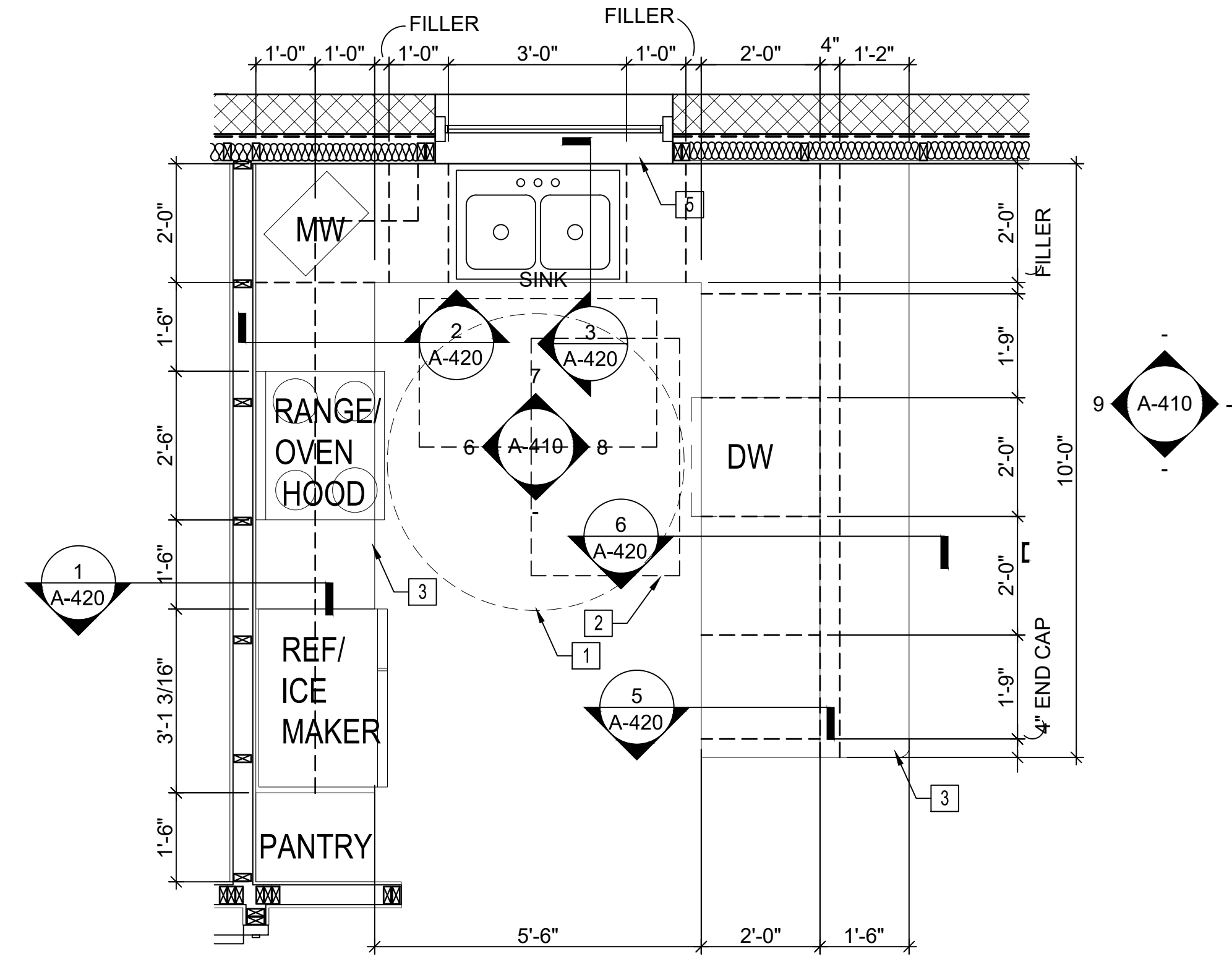
TOILET ACCESSORIES

FSS	FOLDING SHOWER SEAT
GB-1	36" GRAB BAR
GB-2	42" GRAB BAR
GB-3	SHOWER GRAB BAR
MR-1	FRAMED MIRROR
MR-2	TILT MIRROR
PTD	SEMIRECESSED COMBINATION PAPER TOWEL DISPENSER AND TRASH RECEPTACLE
RH	ROBE HOOK
SCR	SHOWER CURTAIN & ROD
SD	SOAP DISPENSER
SH	SOAP HOLDER
SND	SANITARY NAPKIN DISPOSAL
TTD	TOILET TISSUE DISPENSER

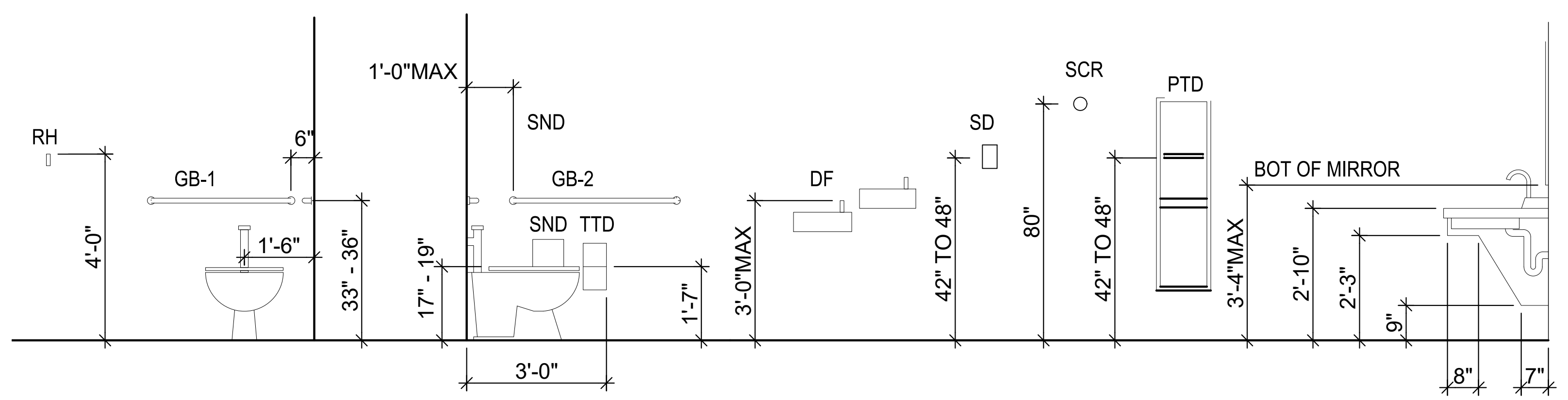
NOTE:
 ALL TOILET ACCESSORIES SHALL BE BOBRICK OR EQUAL.



ENLARGED FLOOR PLAN 1
 SCALE: 1/2" = 1'-0"



ENLARGED FLOOR PLAN 2
 SCALE: 1/2" = 1'-0"



TYPICAL MOUNTING HEIGHTS 3
 SCALE: 1/2" = 1'-0"

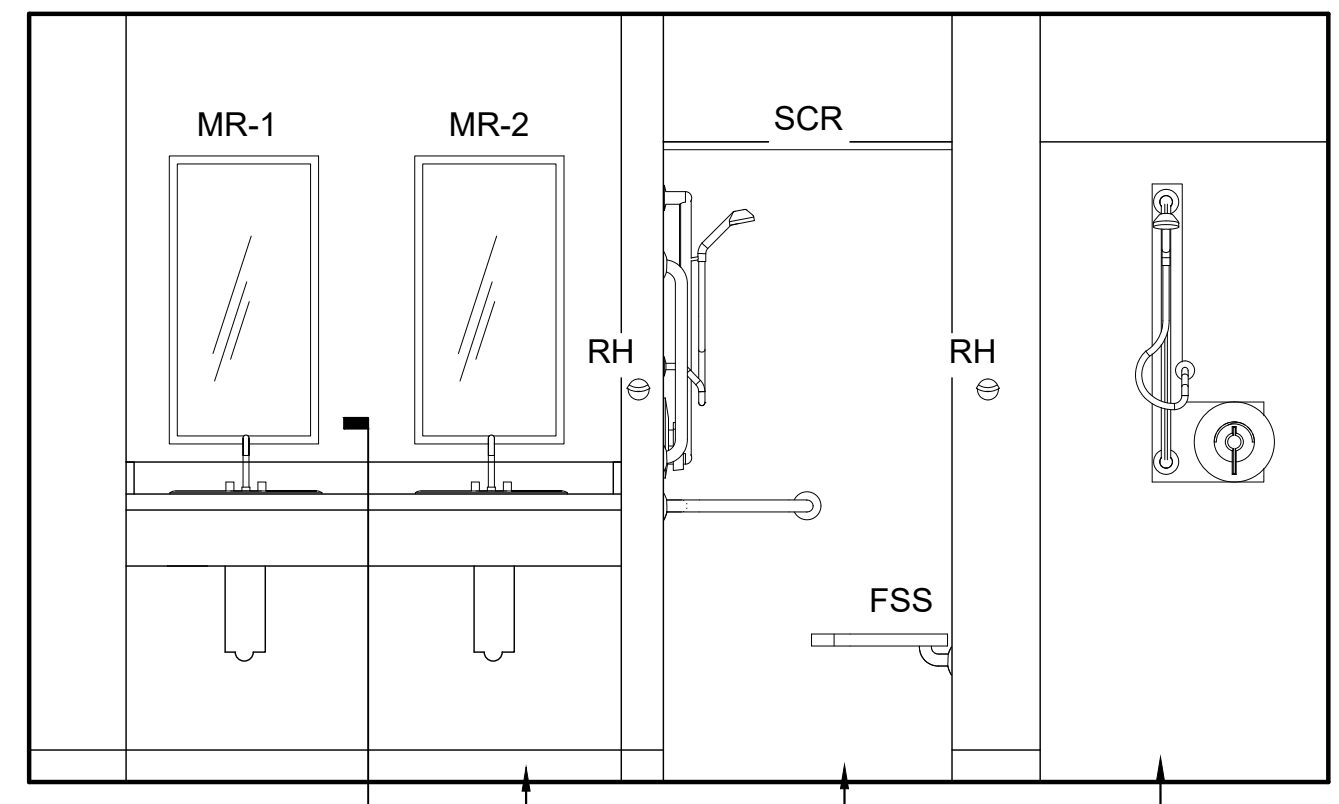
100% RTA SUBMITTAL

ENLARGED FLOOR PLAN

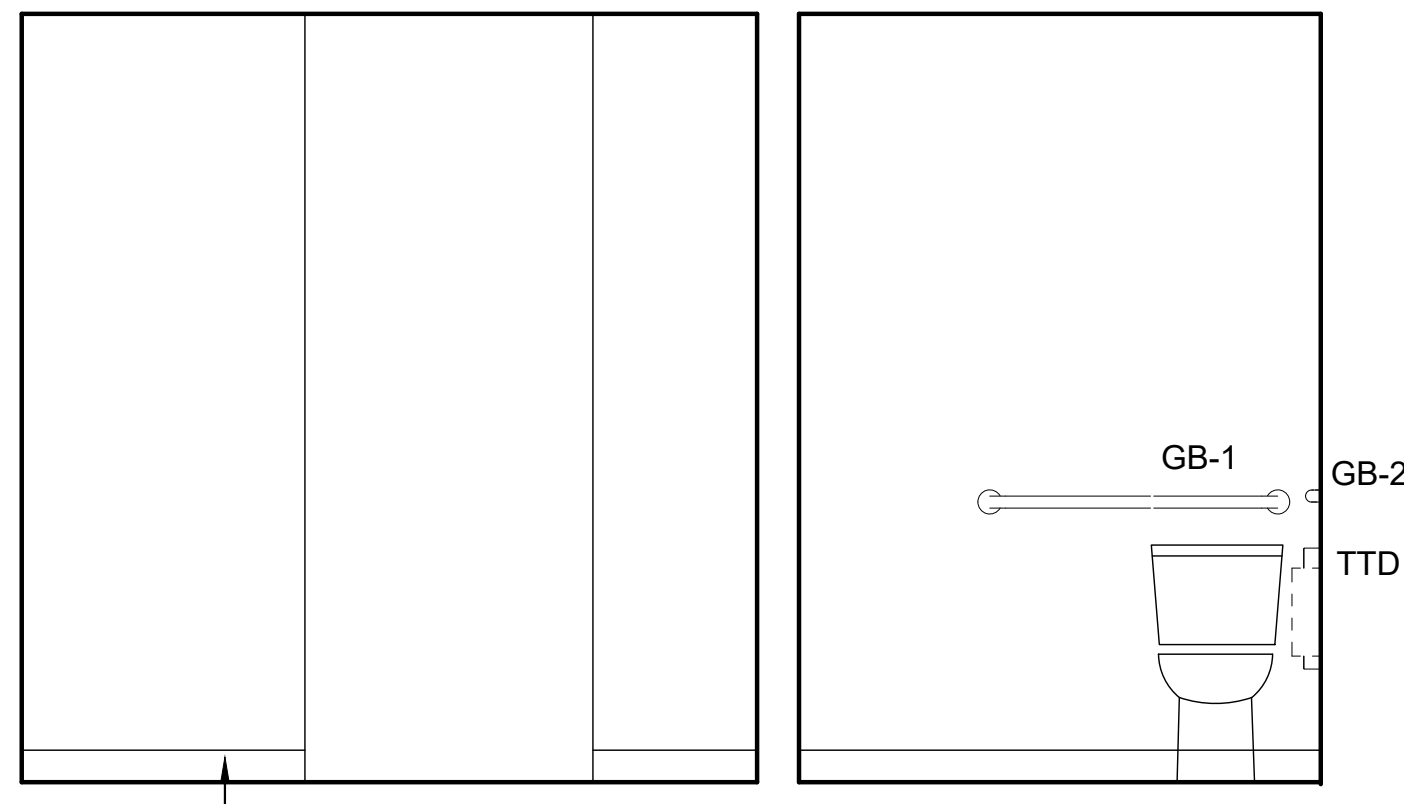
A-400

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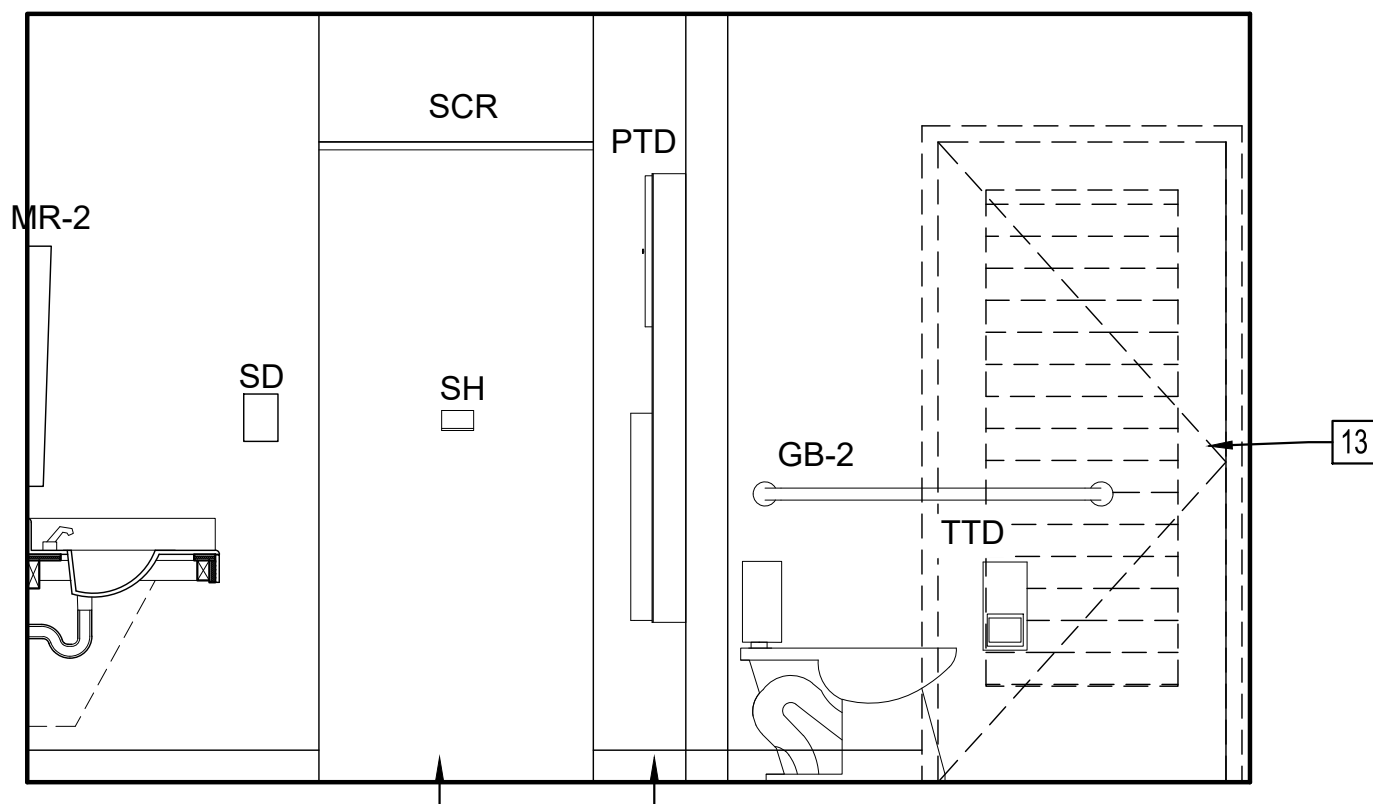
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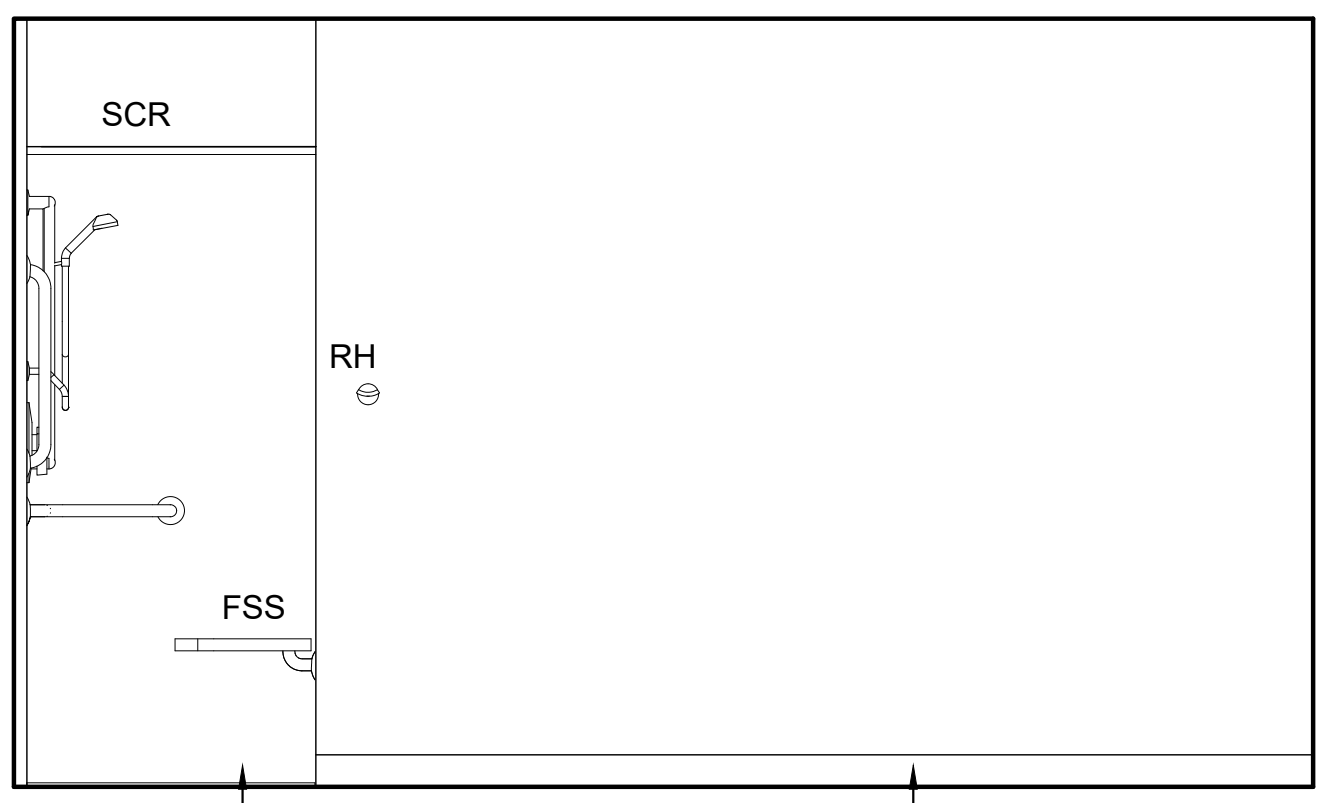
1 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



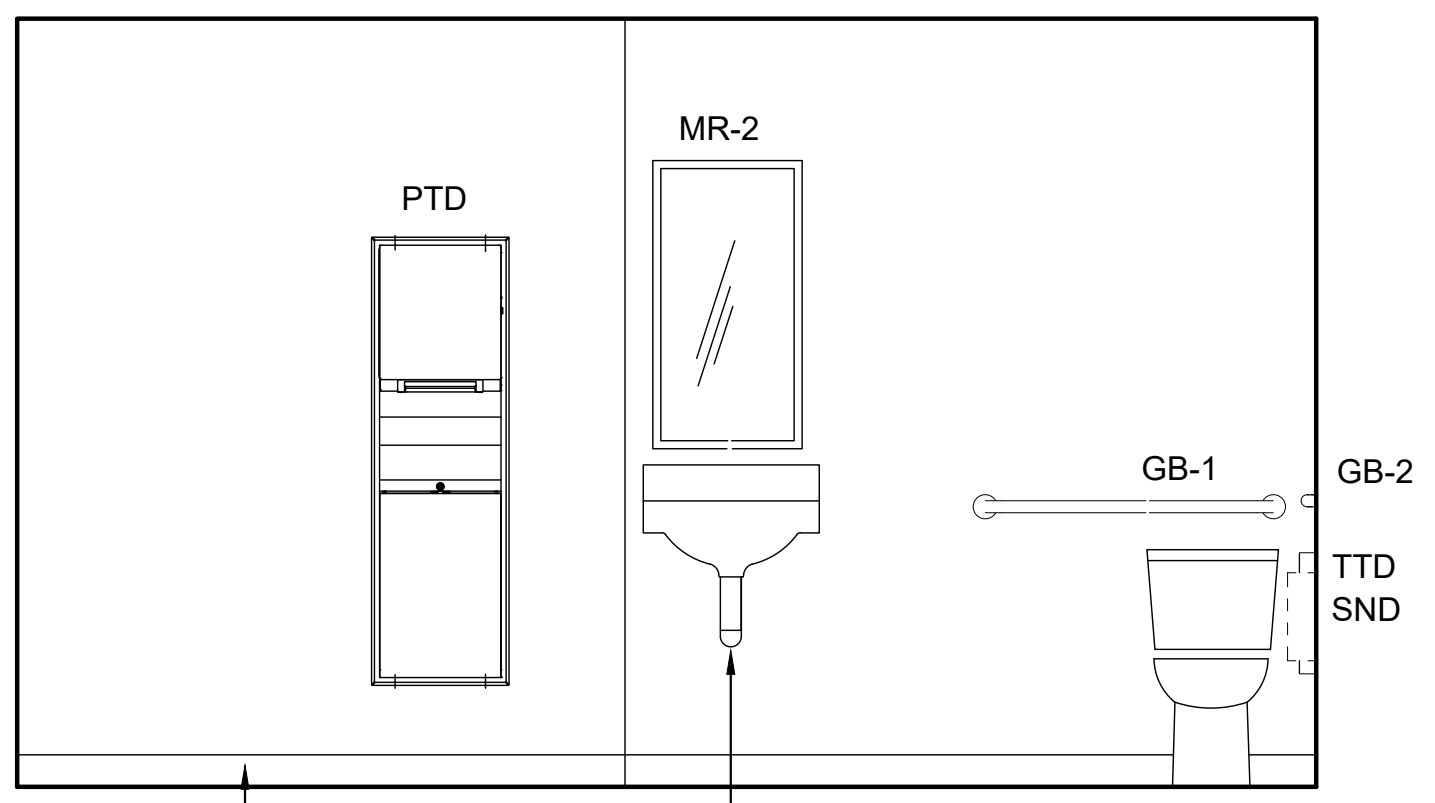
2 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



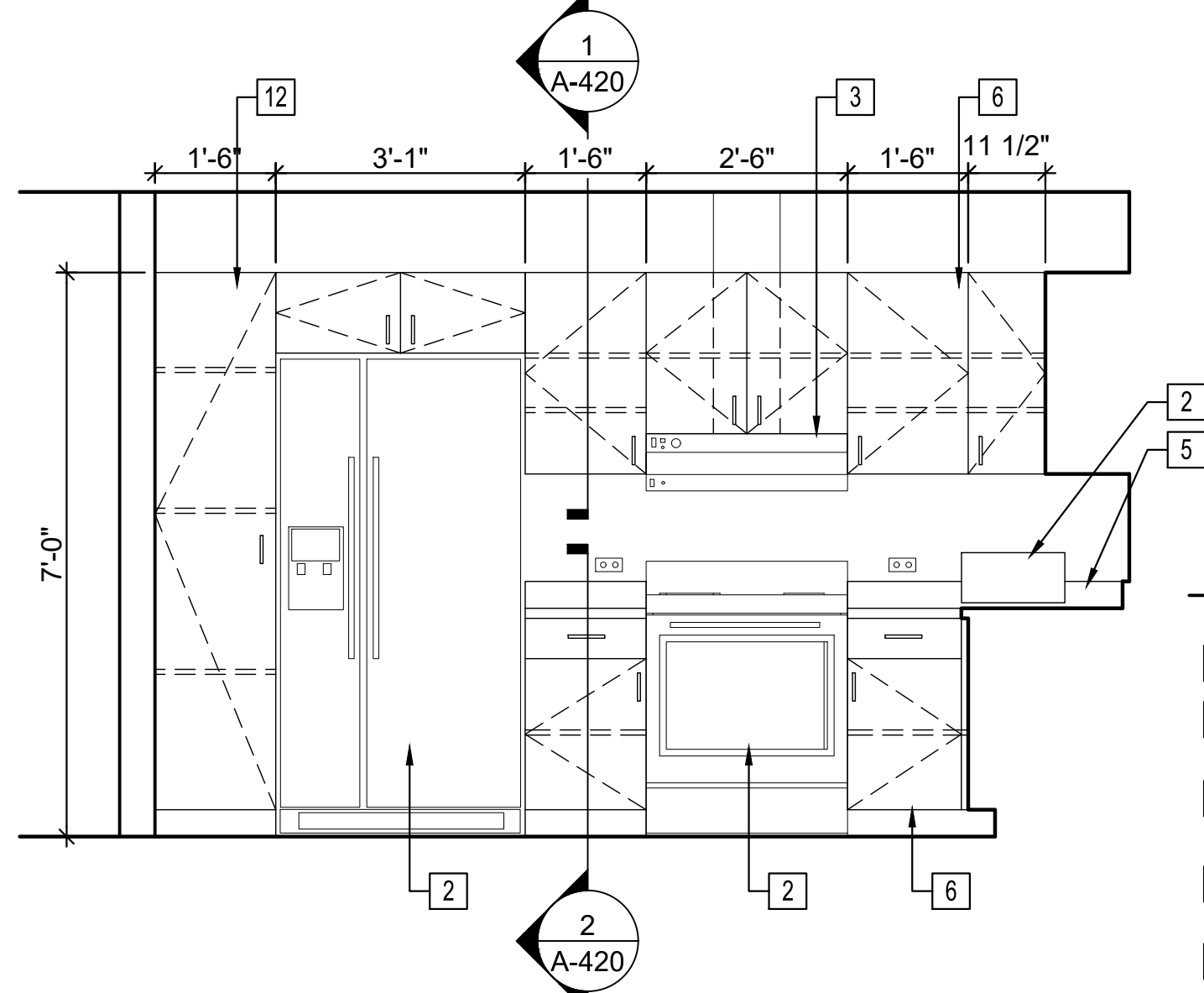
3 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



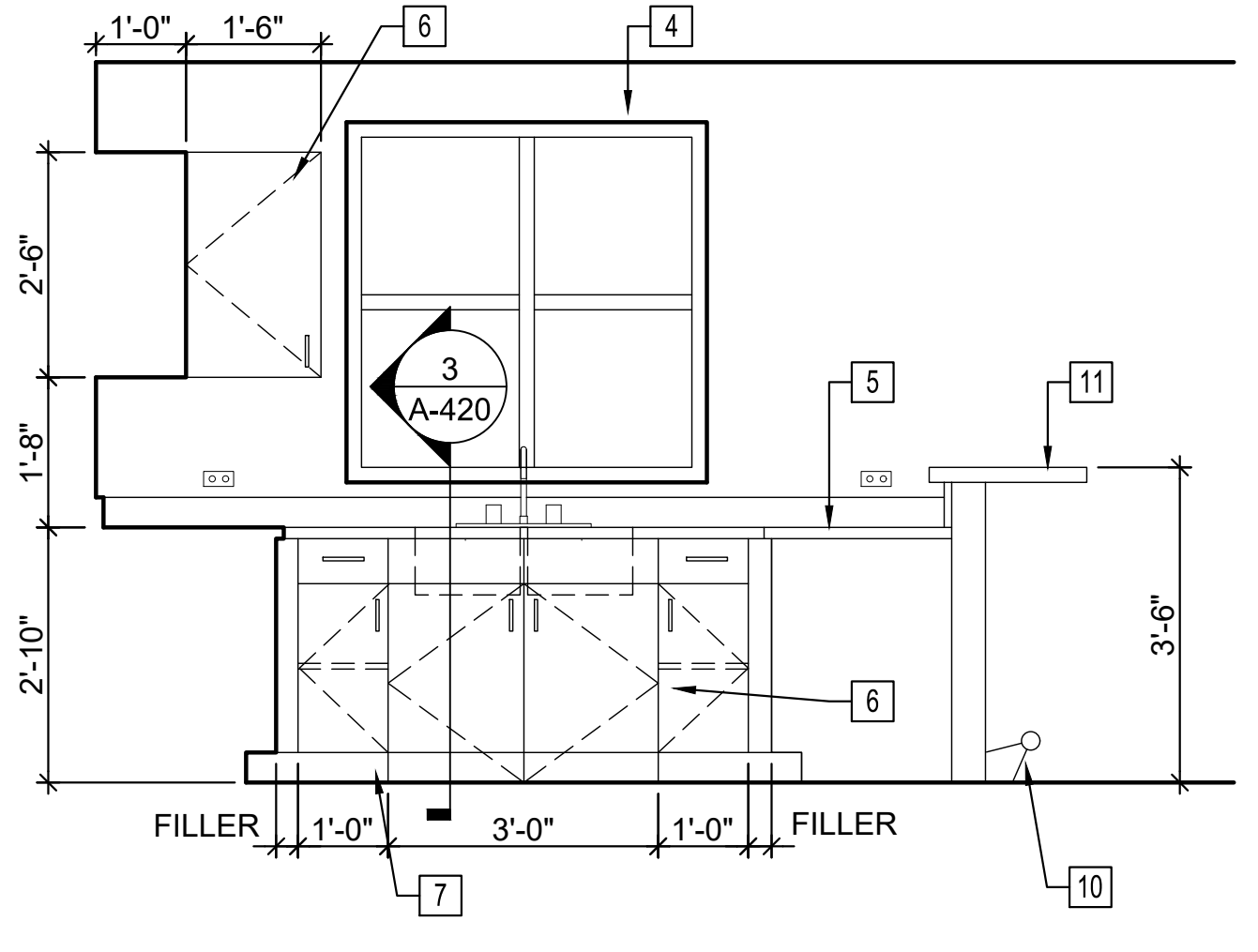
4 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



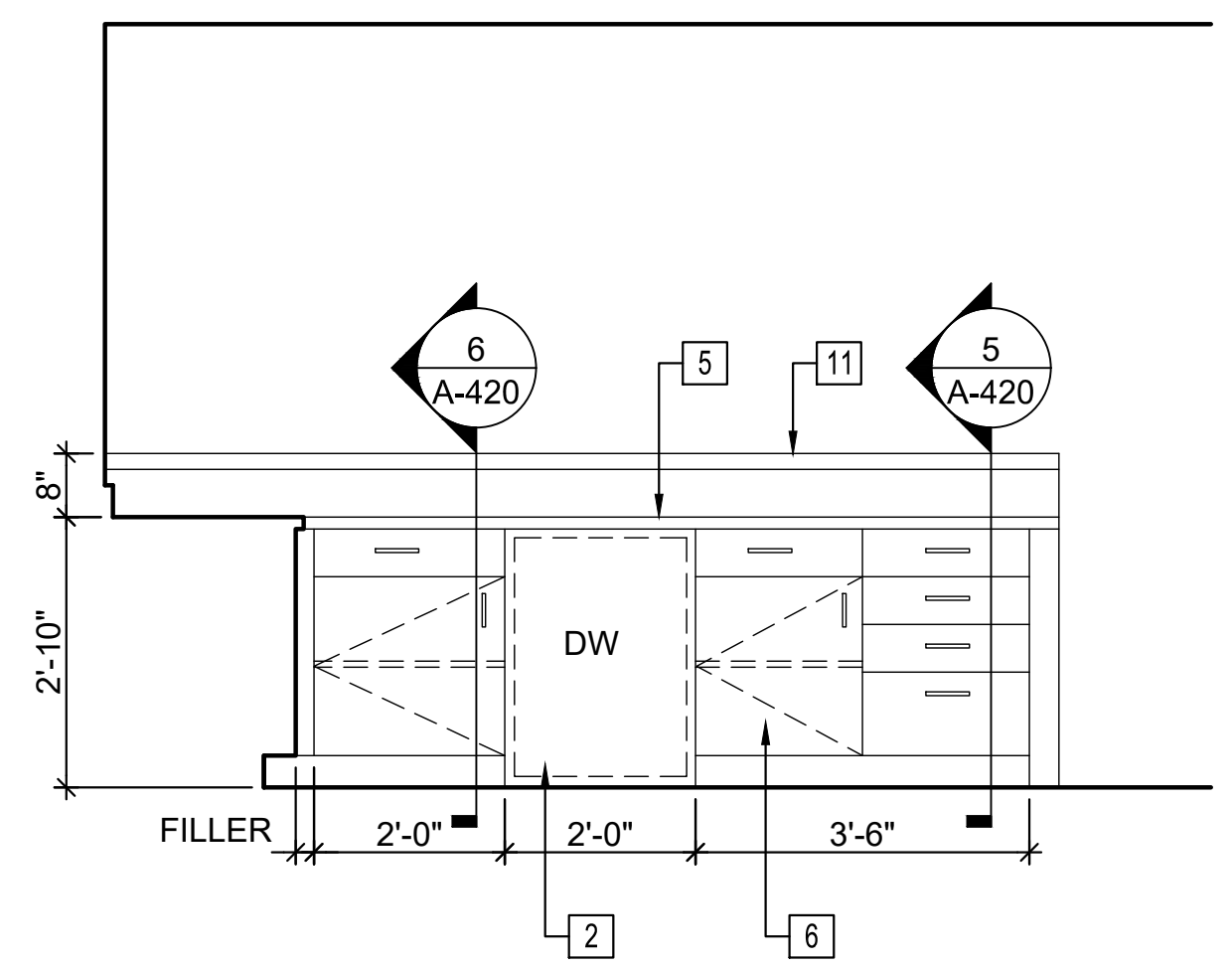
5 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



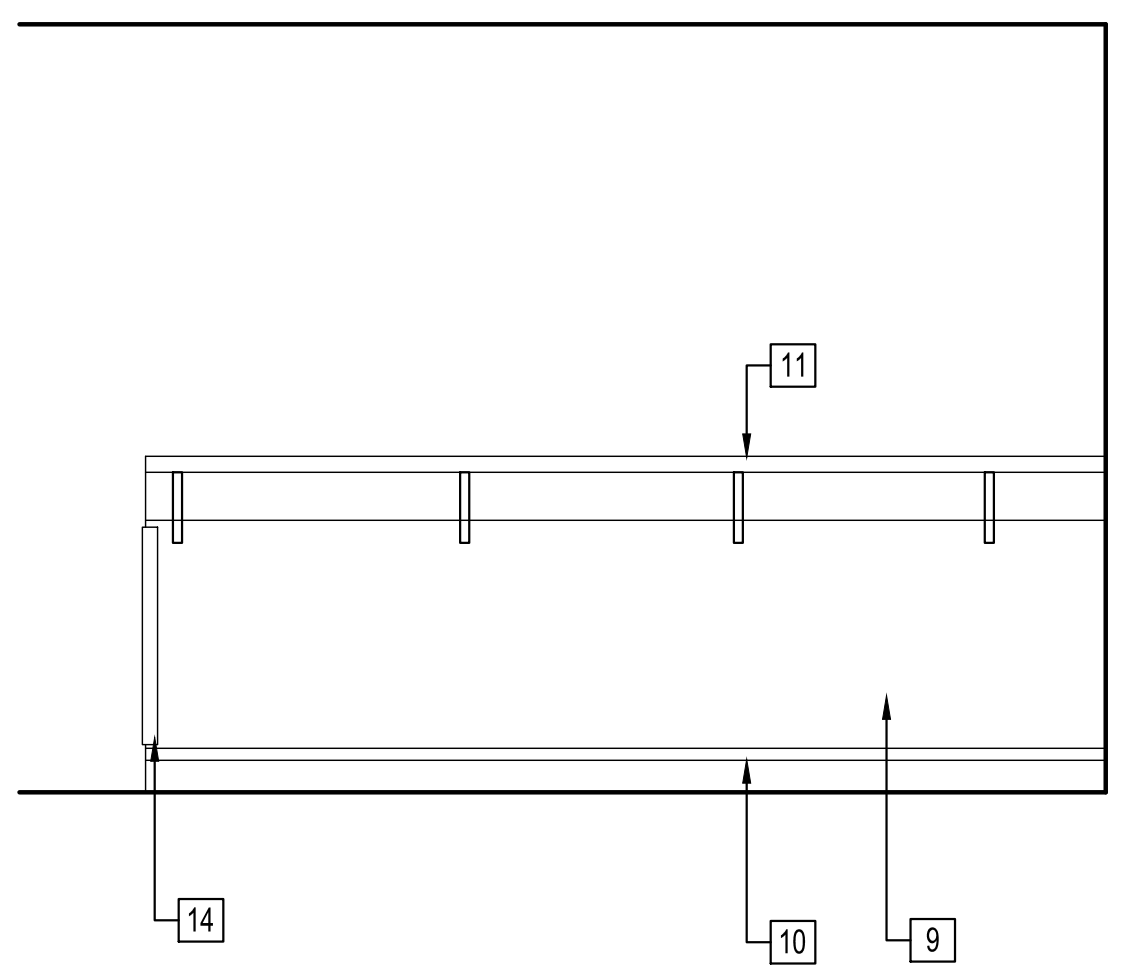
6 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



7 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



8 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



9 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"

KEYNOTES

- 1 PIPE GUARD, SEE PLUMBING DRAWINGS
- 2 APPLIANCES SEE APPLIANCE SCHEDULE ON SHEET A-400
- 3 FIRE SUPPRESSION STYLE RANGE HOOD, DENLAR D-1030-I-DF OR EQUAL.
- 4 WINDOWS BEYOND, REFER TO EXTERIOR ELEVATIONS.
- 5 SOLID SURFACE COUNTERTOP WITH 4" INTEGRAL BACKSPASH
- 6 PLASTIC LAMINATE UPPER AND LOWER CABINETS, SEE DETAILS
- 7 SCHEDULED BASE
- 8 FIBERGLASS SHOWER INSERT, PROVIDE ADA COMPLIANT SHOWER THRESHOLD, REFER TO PLUMBING DRAWINGS
- 9 FIBER REINFORCED WALL PANEL
- 10 1 1/2" DIAMETER FOOT RAIL
- 11 SOLID SURFACE BAR COUNTER WITH BRUSHED FINISHED METAL BRACKETS
- 12 PLASTIC LAMINATE PANTRY WITH SHELVING, SEE DETAILS
- 13 SCHEDULED DOOR, DASHED FOR CLARITY
- 14 CORNER GUARD, SEE FINISH SCHEDULE

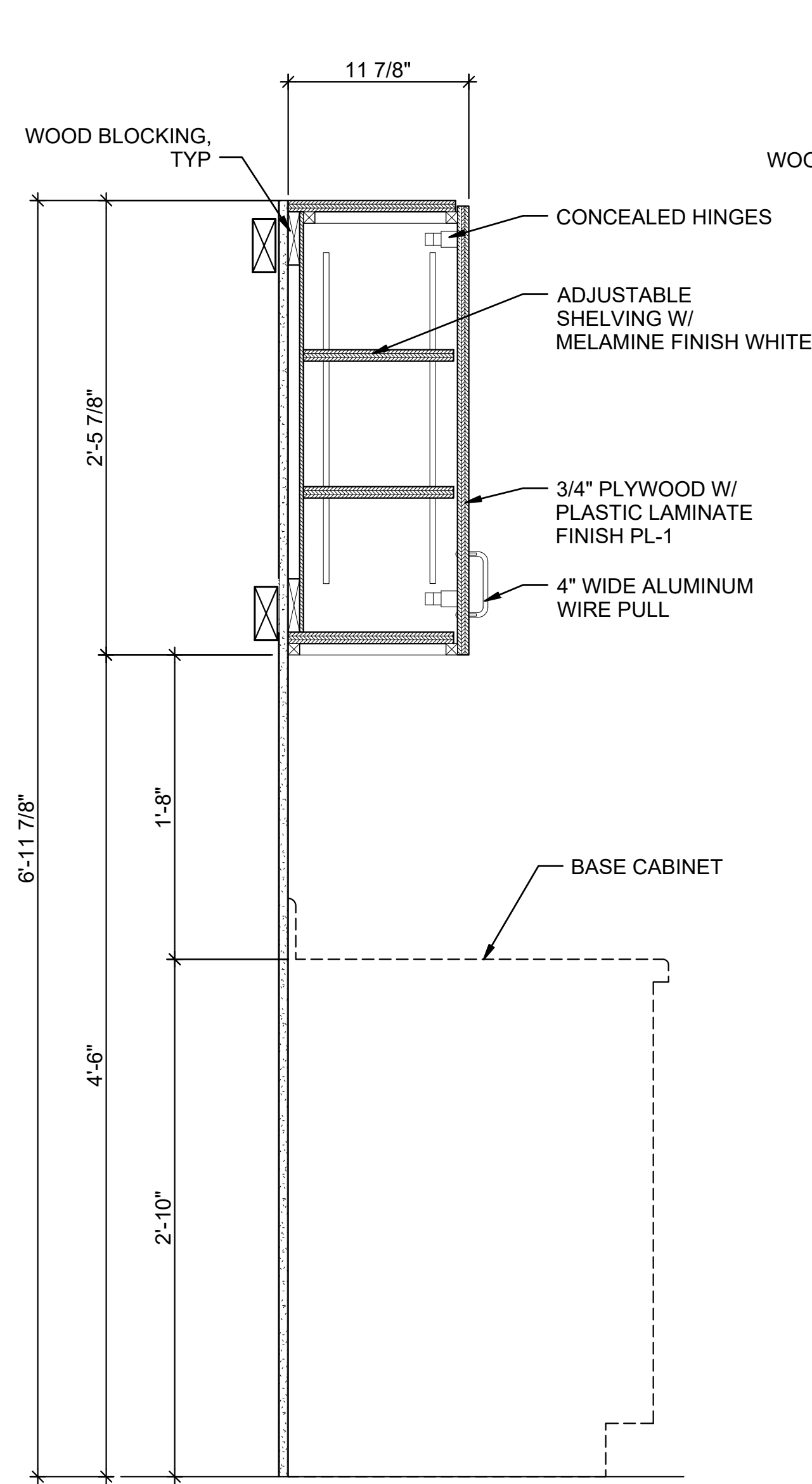
GENERAL NOTES

- 1. THE CONTRACTOR SHALL PROVIDE REINFORCING BEHIND WALL MOUNTED AND CEILING EQUIPMENT. COORDINATE WITH A/V, DATA AND ELECTRICAL DRAWINGS.
- 2. CONTRACTOR SHALL COORDINATE WORK WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
- 3. REFER TO FINISH SCHEDULE ON SHEET A-600 FOR SURFACE FINISHES.
- 4. REFER TO SHEET A-510 FOR ADDITIONAL INFORMATION ON WALL TYPE ASSEMBLIES.
- 5. REFER TO SHEET A-400 FOR ALL TOILET ROOM ACCESSORIES.

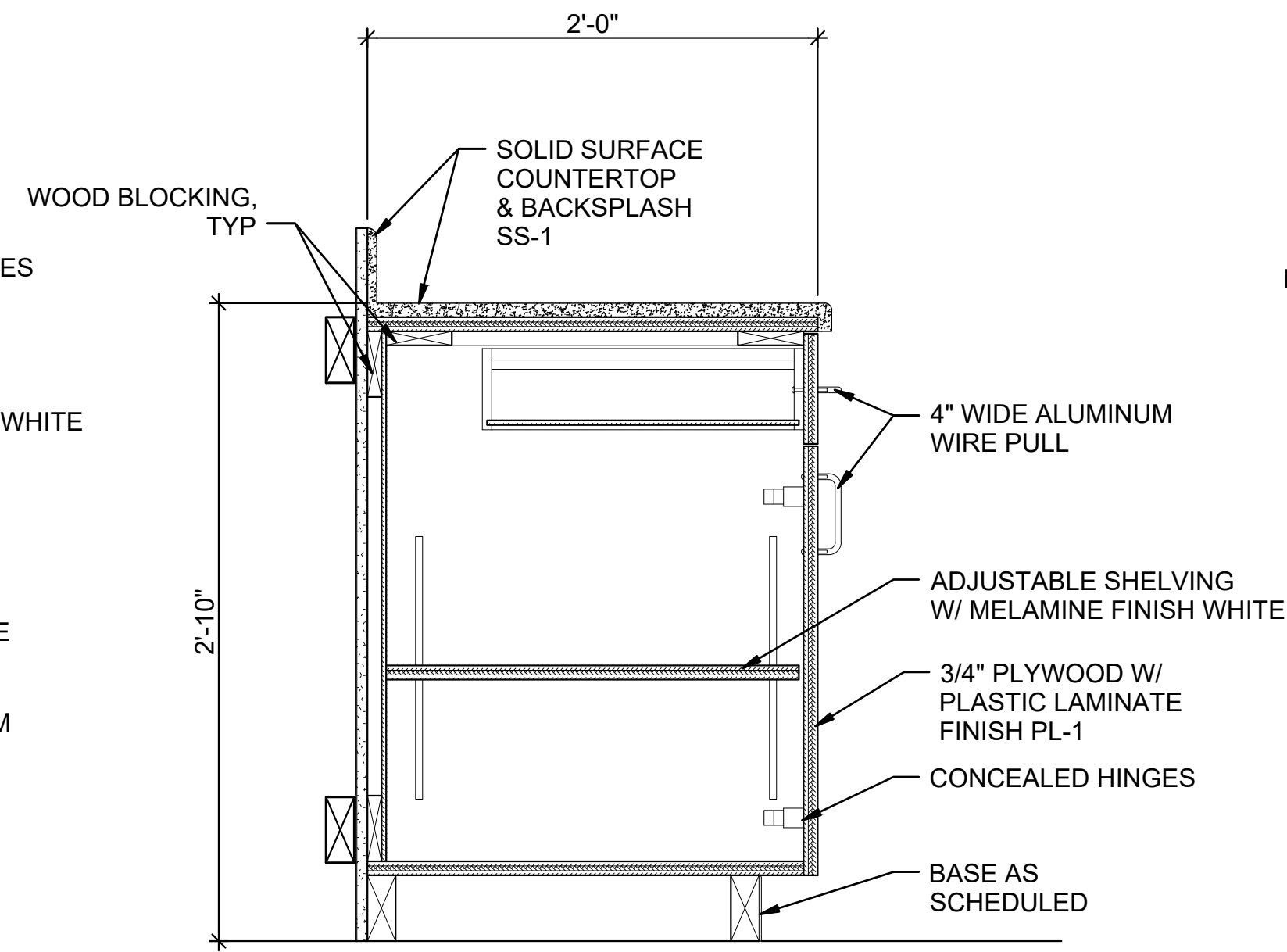
NO.	DATE	APPR.	REVISION/ACTION TAKEN

PROJECT NO:	25898.03
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DRAWN BY:	DB
CHK'D BY:	SK
PROJ. MGR.:	-
DATE:	JULY 2016

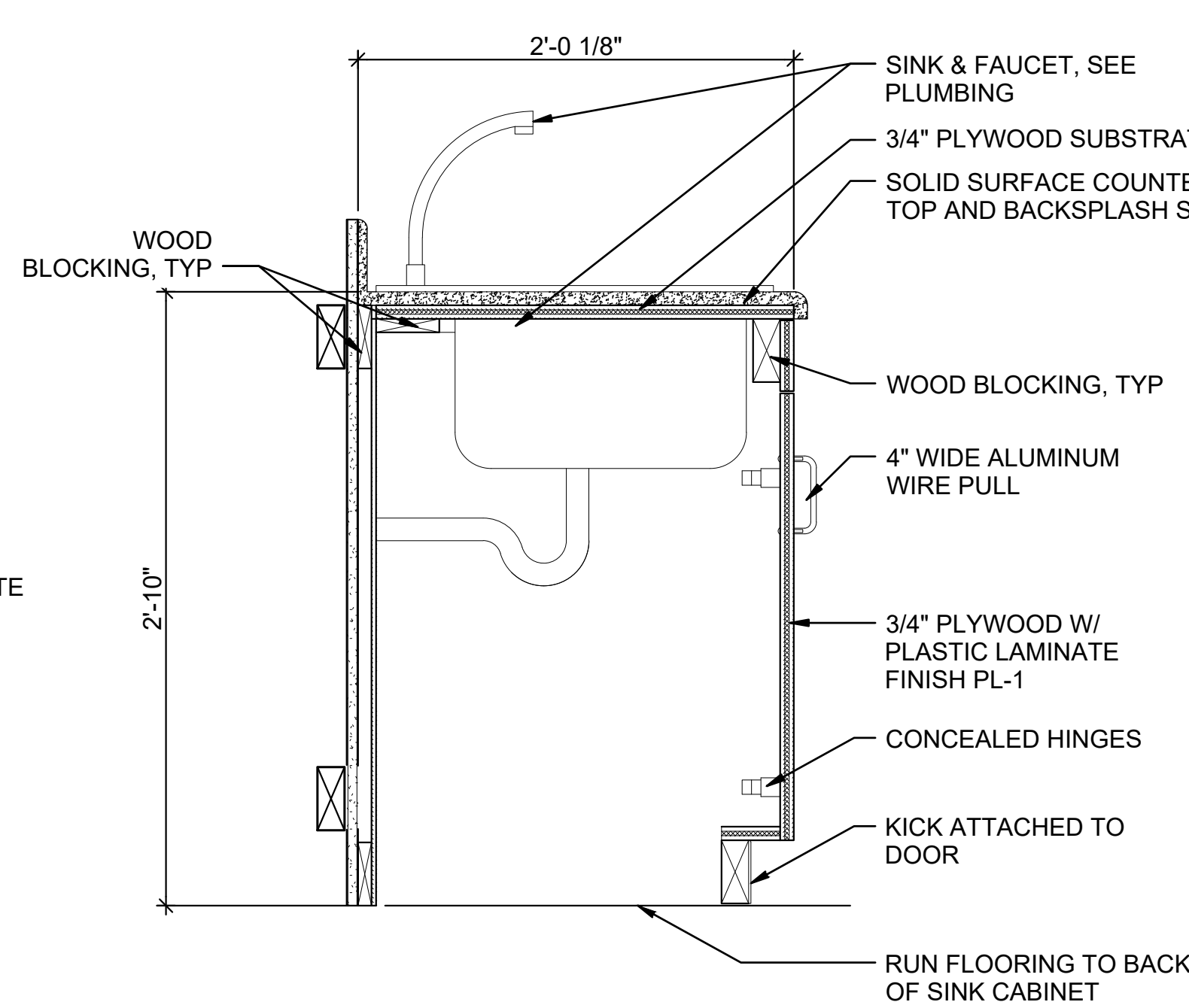
100% RTA SUBMITTAL
INTERIOR ELEVATIONS



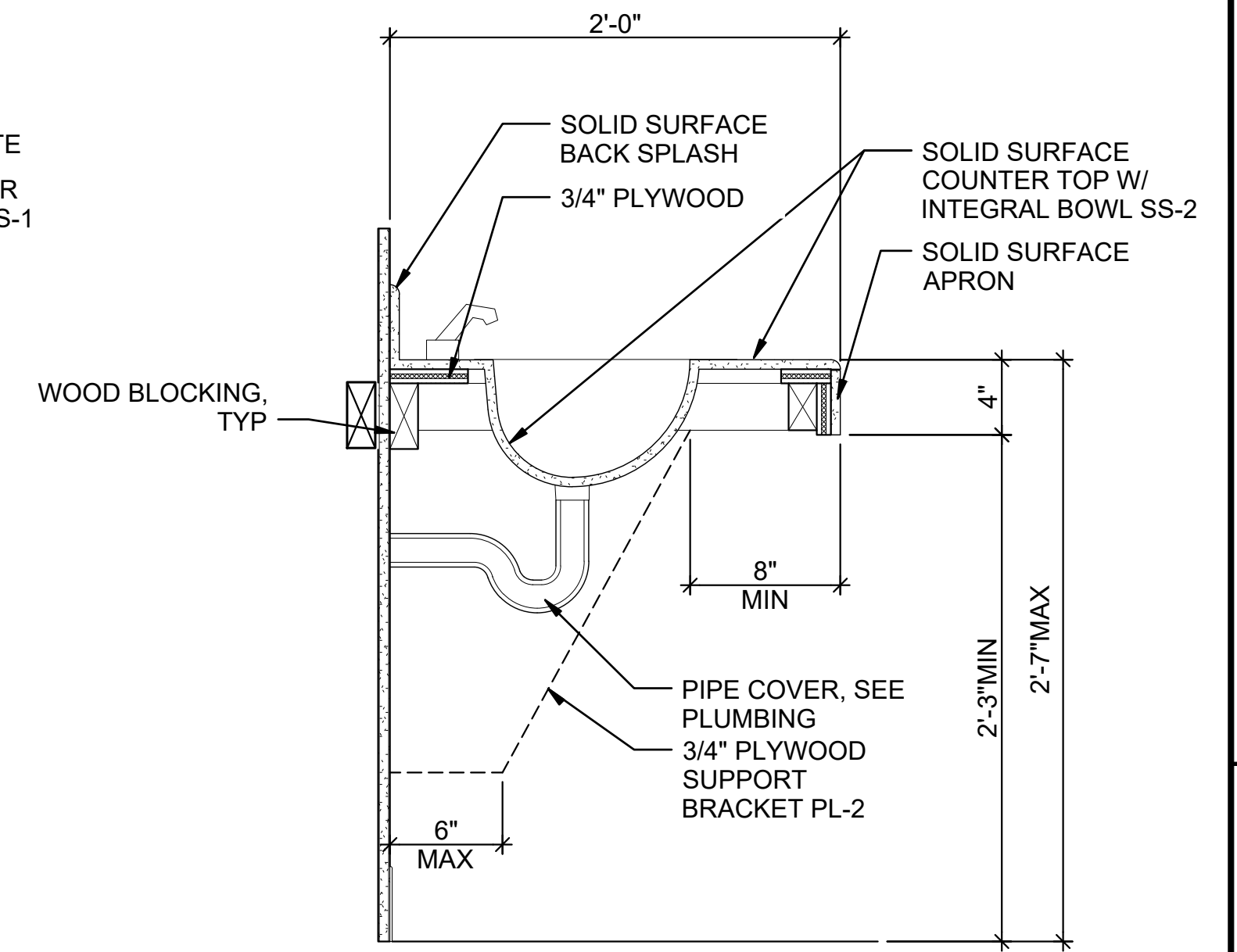
1 CASEWORK SECTION
SCALE: 1 1/2" = 1'-0"



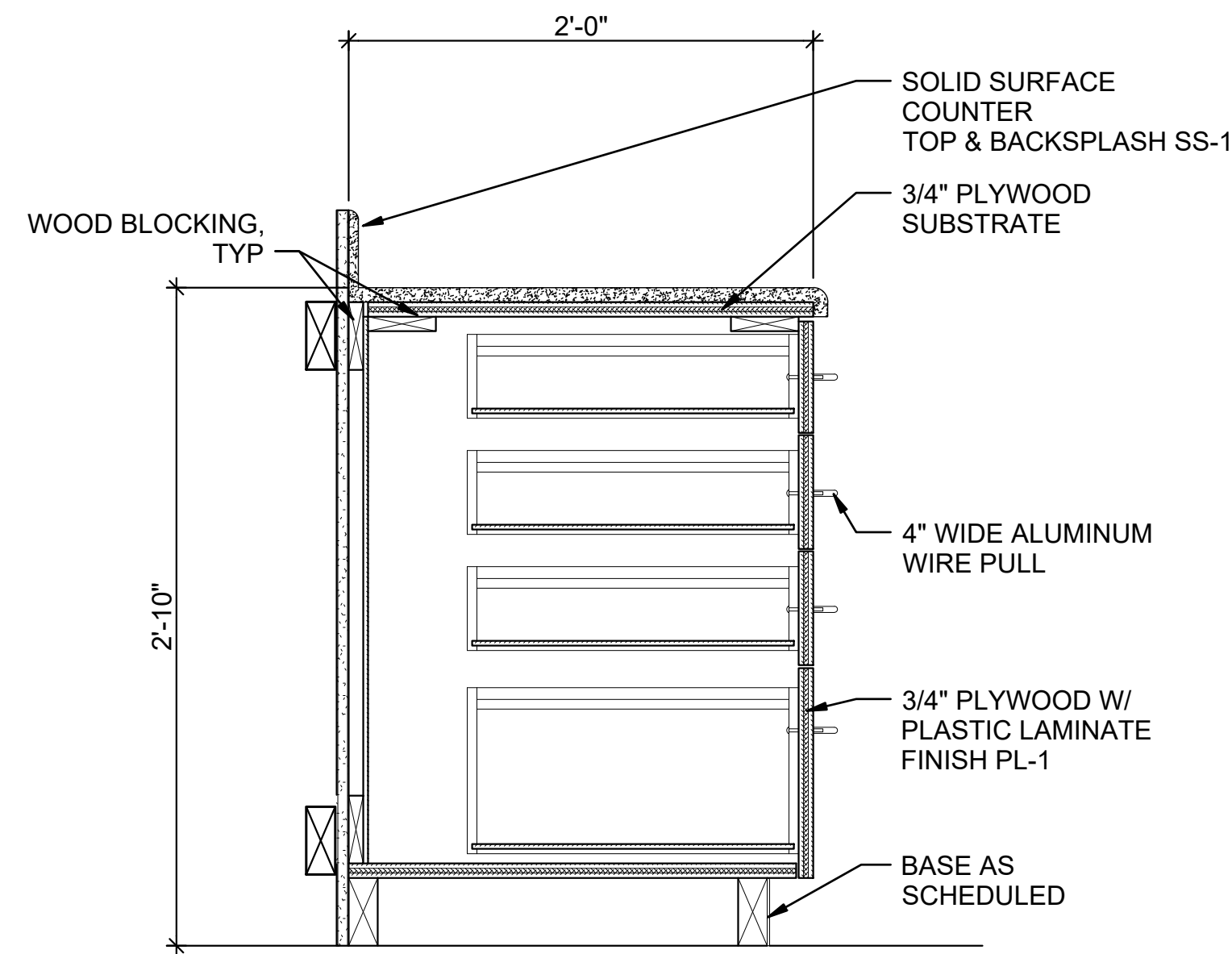
2 CASEWORK SECTION
SCALE: 1 1/2" = 1'-0"



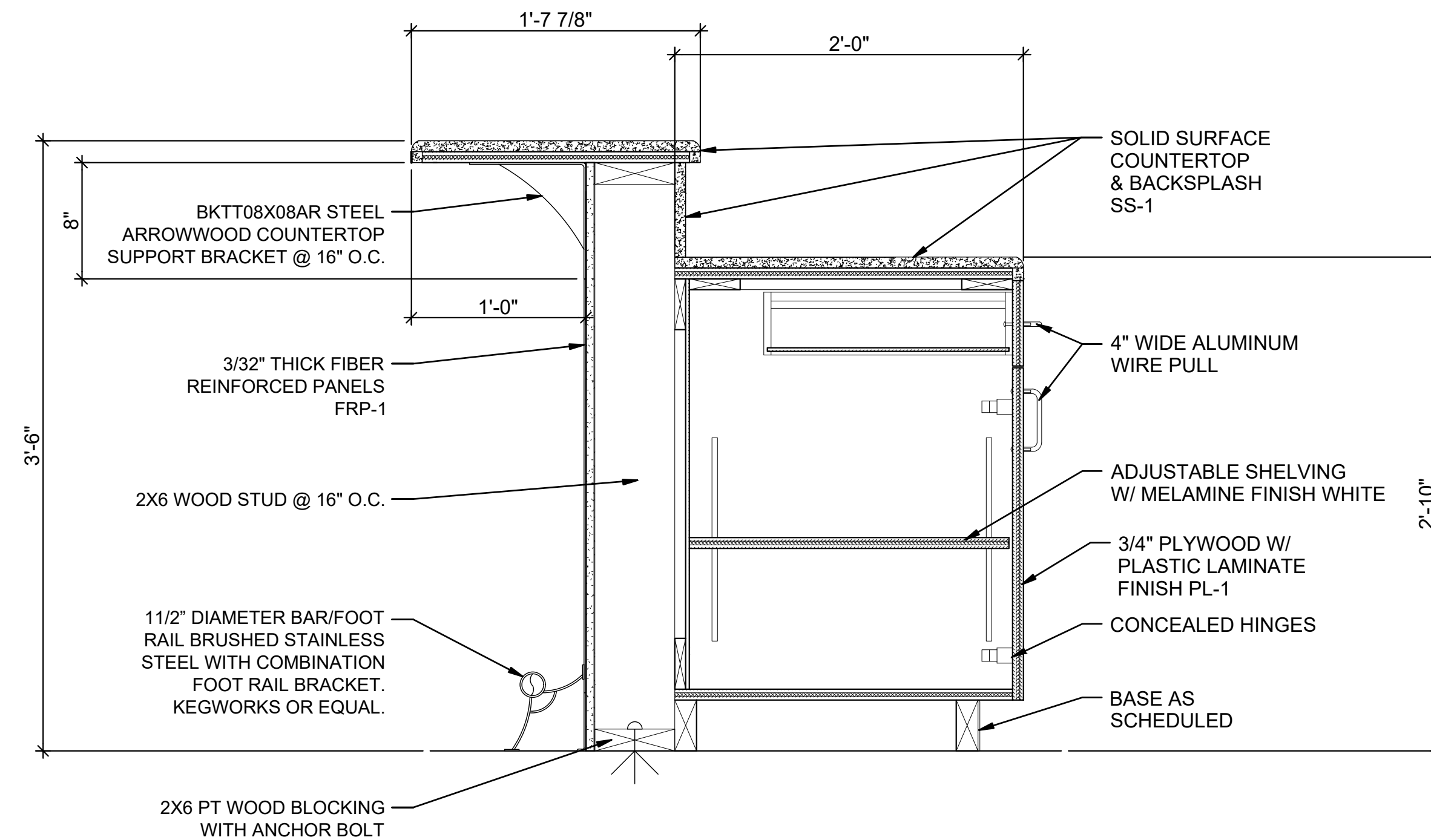
3 CASEWORK SECTION
SCALE: 1 1/2" = 1'-0"



4 CASEWORK SECTION
SCALE: 1 1/2" = 1'-0"



5 CASEWORK SECTION
SCALE: 1 1/2" = 1'-0"



6 CASEWORK SECTION
SCALE: 1 1/2" = 1'-0"

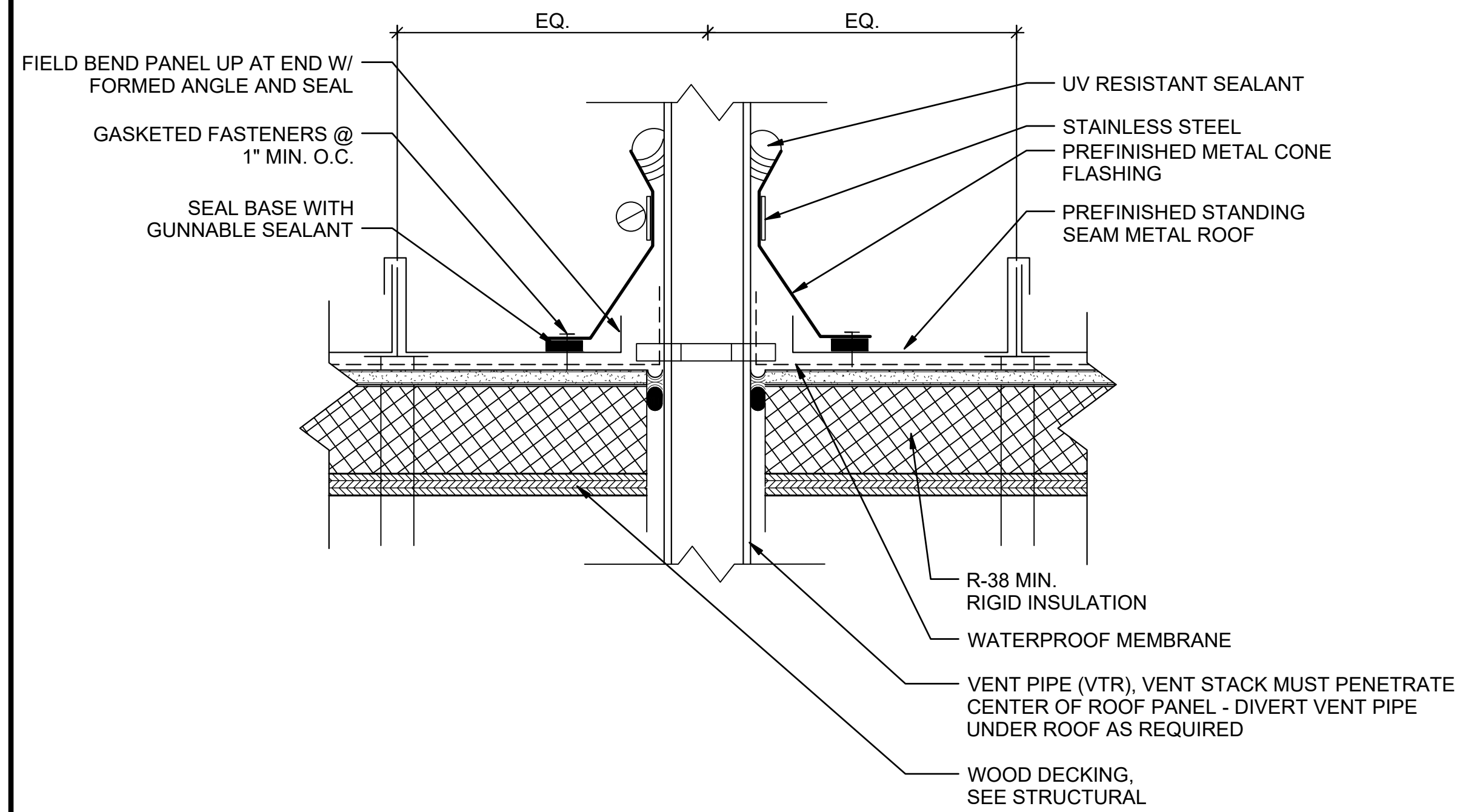
GENERAL NOTES

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2. CONTRACTOR SHALL COORDINATE WORK WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
3. REFER TO FINISH SCHEDULE ON SHEET A-600 FOR SURFACE FINISHES.
4. REFER TO SHEET A-510 FOR ADDITIONAL INFORMATION ON WALL TYPE ASSEMBLIES.

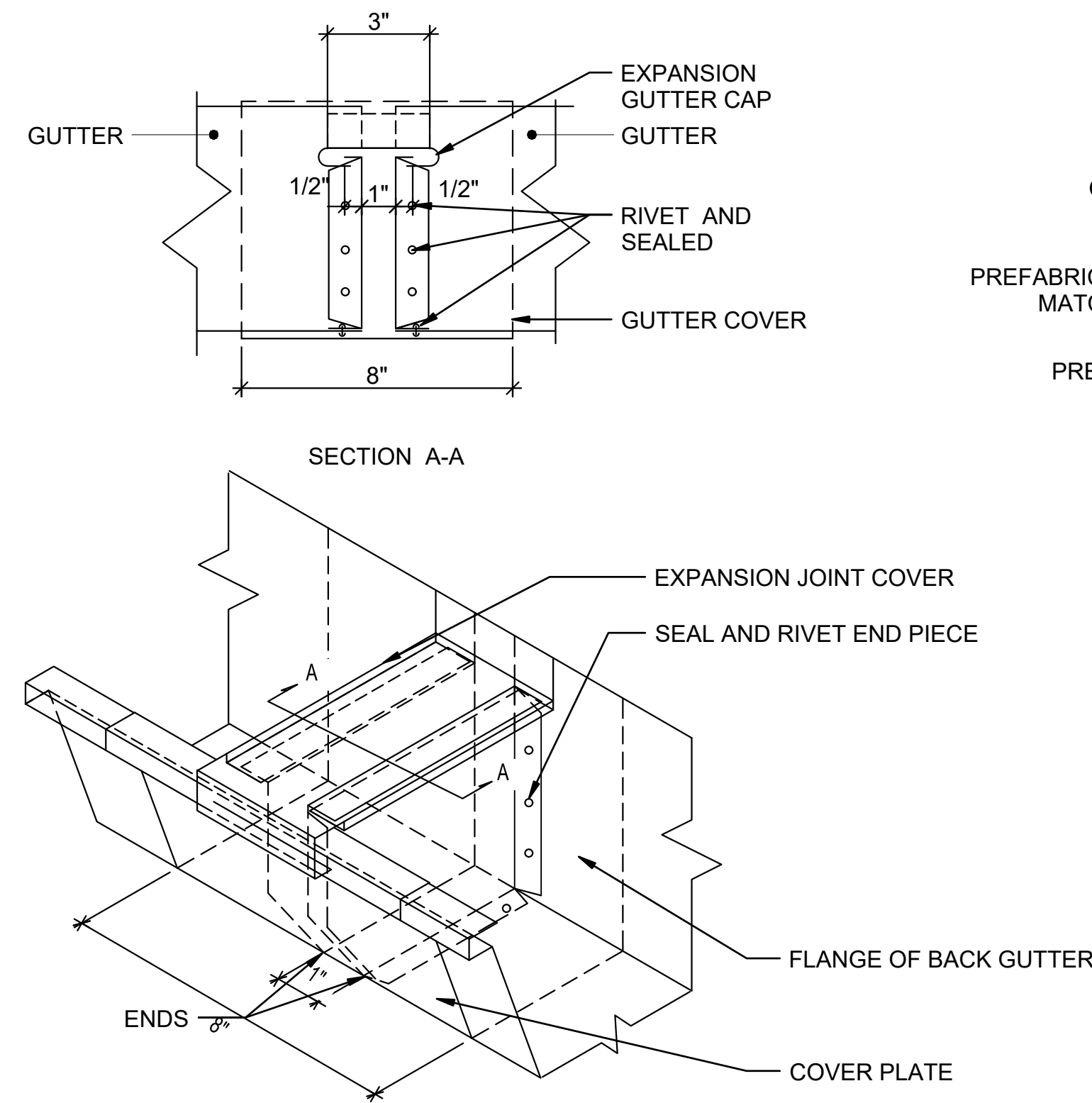
PROJECT NO:	DESIGNED BY:	CHK'D BY:	PROJ. MGR:	DATE:
25898.03	DB	SK	-	JULY 2016

NO.	DATE	APPR.	REVISION/ACTION TAKEN

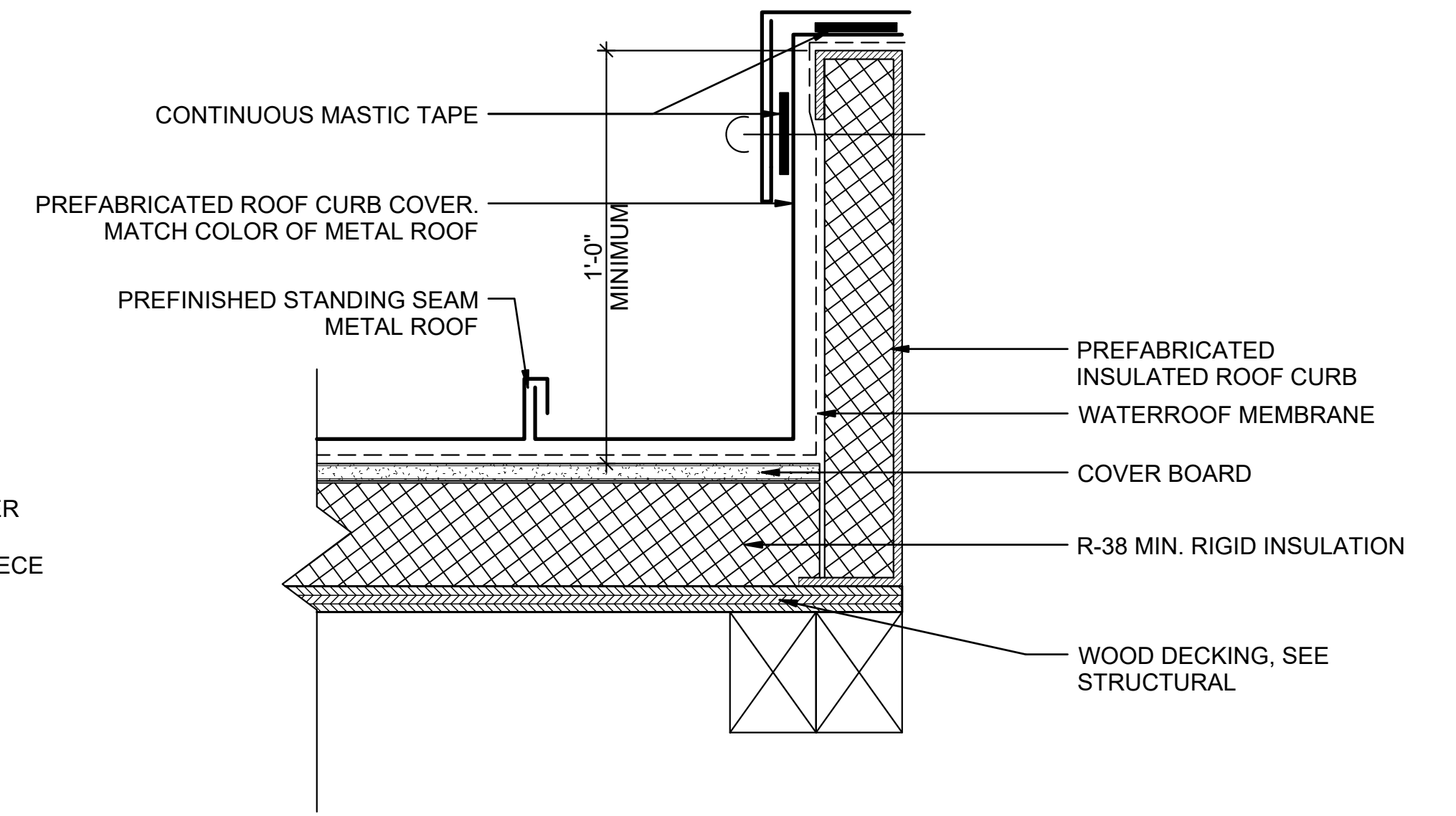
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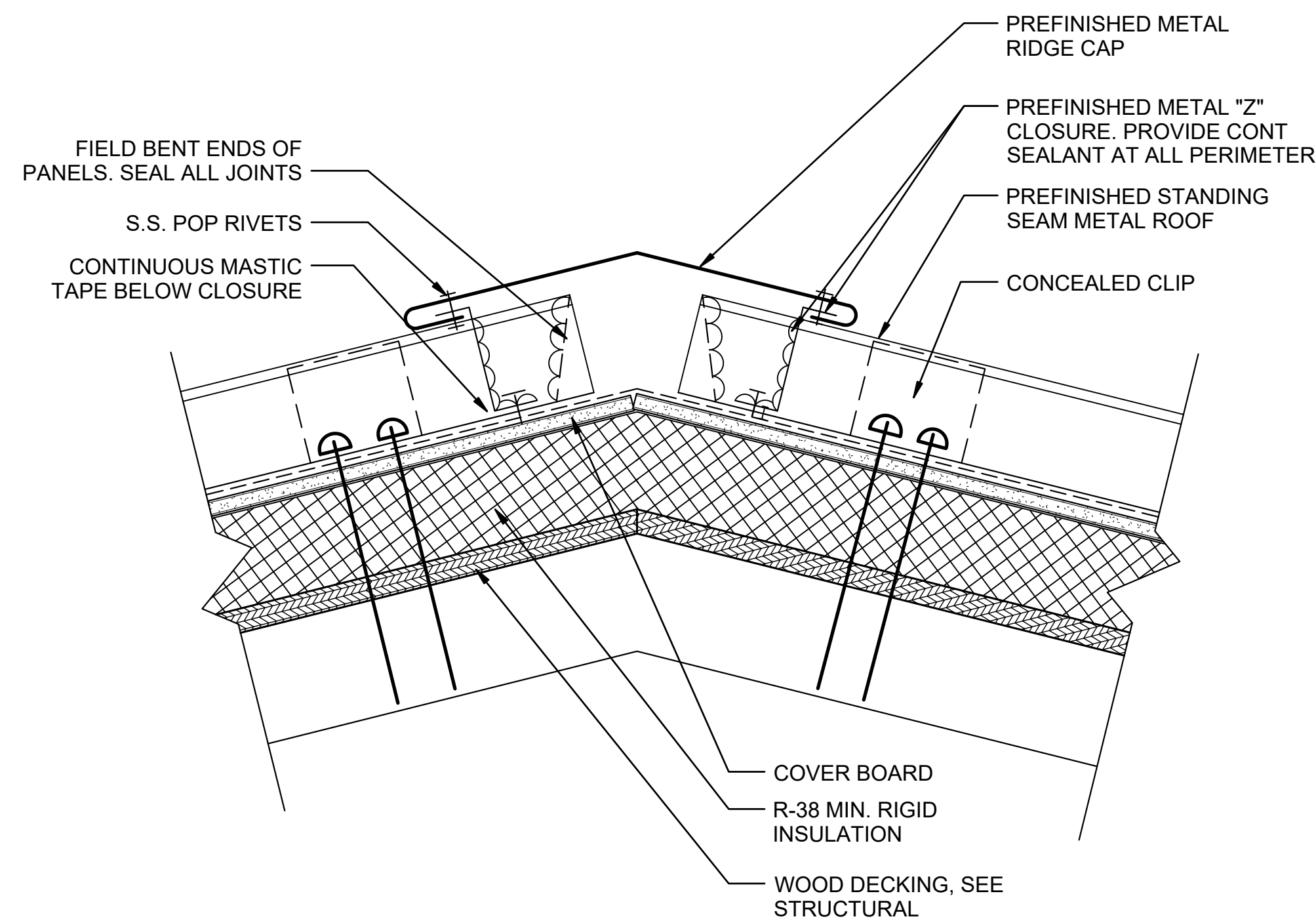
1 VENT THRU ROOF DETAIL
 SCALE: 3" = 1'-0"



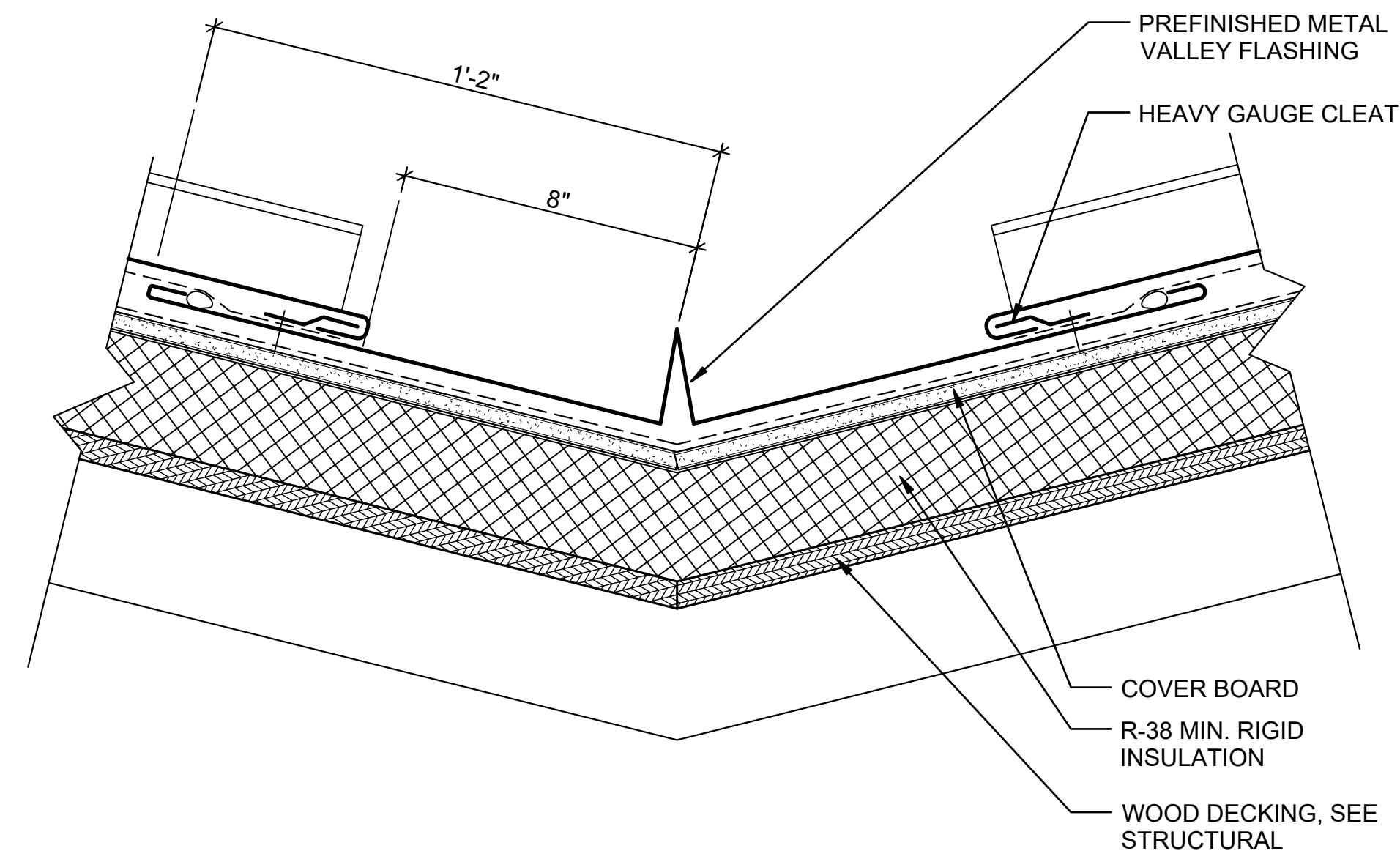
2 GUTTER EXPANSION JOINT
 SCALE: 3" = 1'-0"



3 ROOF CURB DETAIL
 SCALE: 3" = 1'-0"



4 RIDGE DETAIL
 SCALE: 3" = 1'-0"

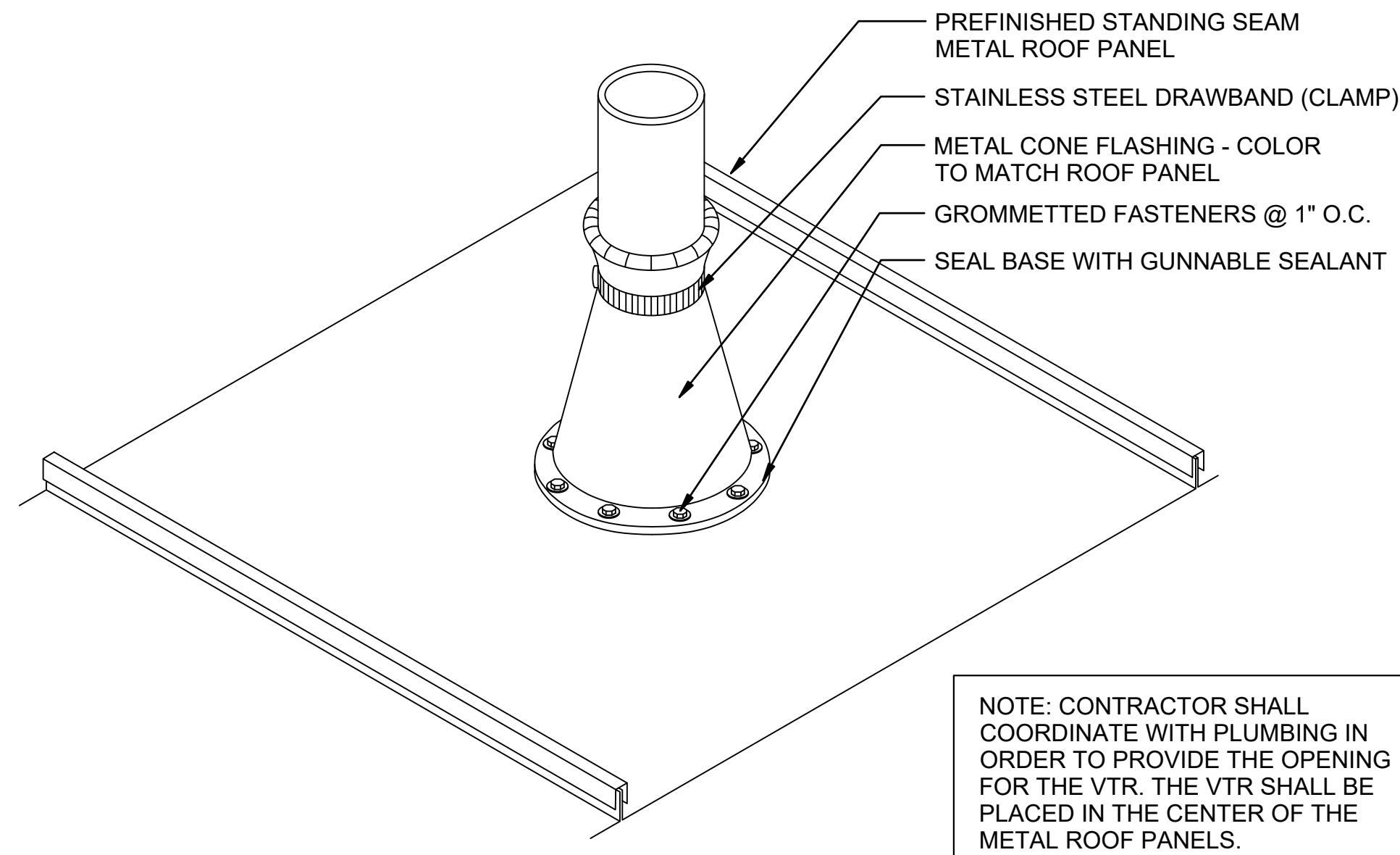


5 VALLEY DETAIL
 SCALE: 3" = 1'-0"

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DRAWN BY:	DB
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DATE:	JULY 2016

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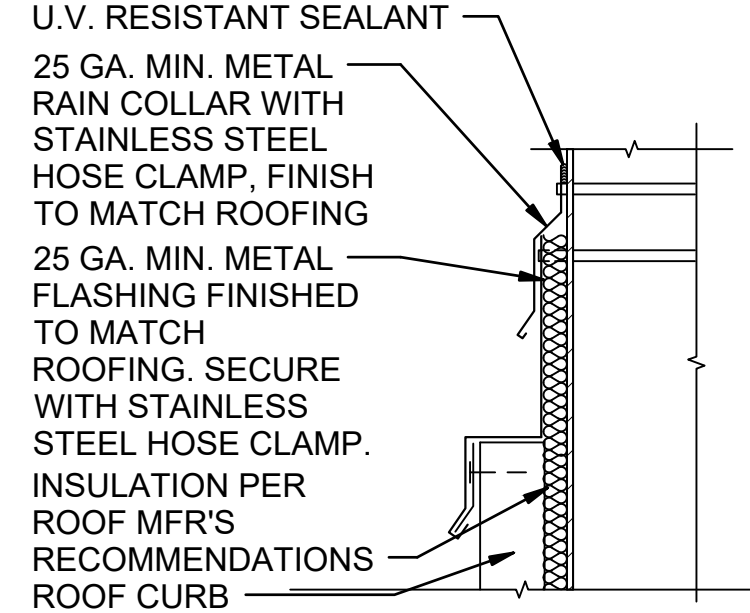


NOTE: CONTRACTOR SHALL COORDINATE WITH PLUMBING IN ORDER TO PROVIDE THE OPENING FOR THE VTR. THE VTR SHALL BE PLACED IN THE CENTER OF THE METAL ROOF PANELS.

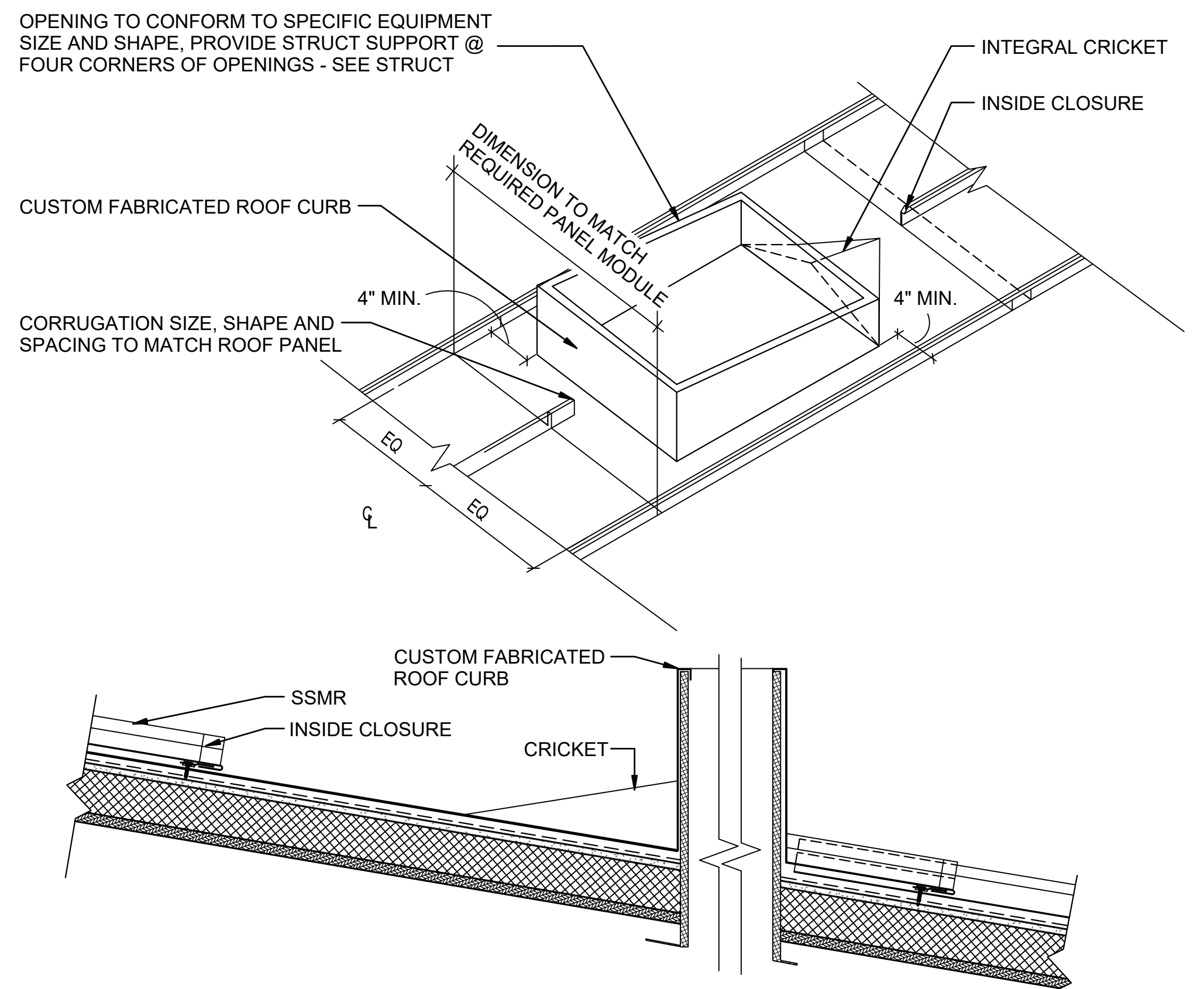
1 PIPE VENT DETAIL
 8" 4" 0" 8" 1'-4"
 SCALE: 1-1/2" = 1'-0"

- ROOF CURBS -
- MIN. 18 GAUGE GALVANIZED STEEL.
 - ALL WELDED, FACTORY WITH BUILT IN CRICKET TO DIVERT CRICKET SLOPE: 1/2" FT. MIN., ATTACHMENT FLANGES.
 - MINIMUM 8" HIGH CURBS AND CONFIGURATIONS DESIGNED TO FIT SPECIFIC PANEL TO WHICH THEY MOUNT.
 - CURBS MUST BE FABRICATED FROM GALVALUME COATED STEEL SHEET COMPATIBLE WITH THE ROOF.
 - PROVIDE A WATER TIGHT SEAL.
 - FINISH TO MATCH ADJACENT ROOF.

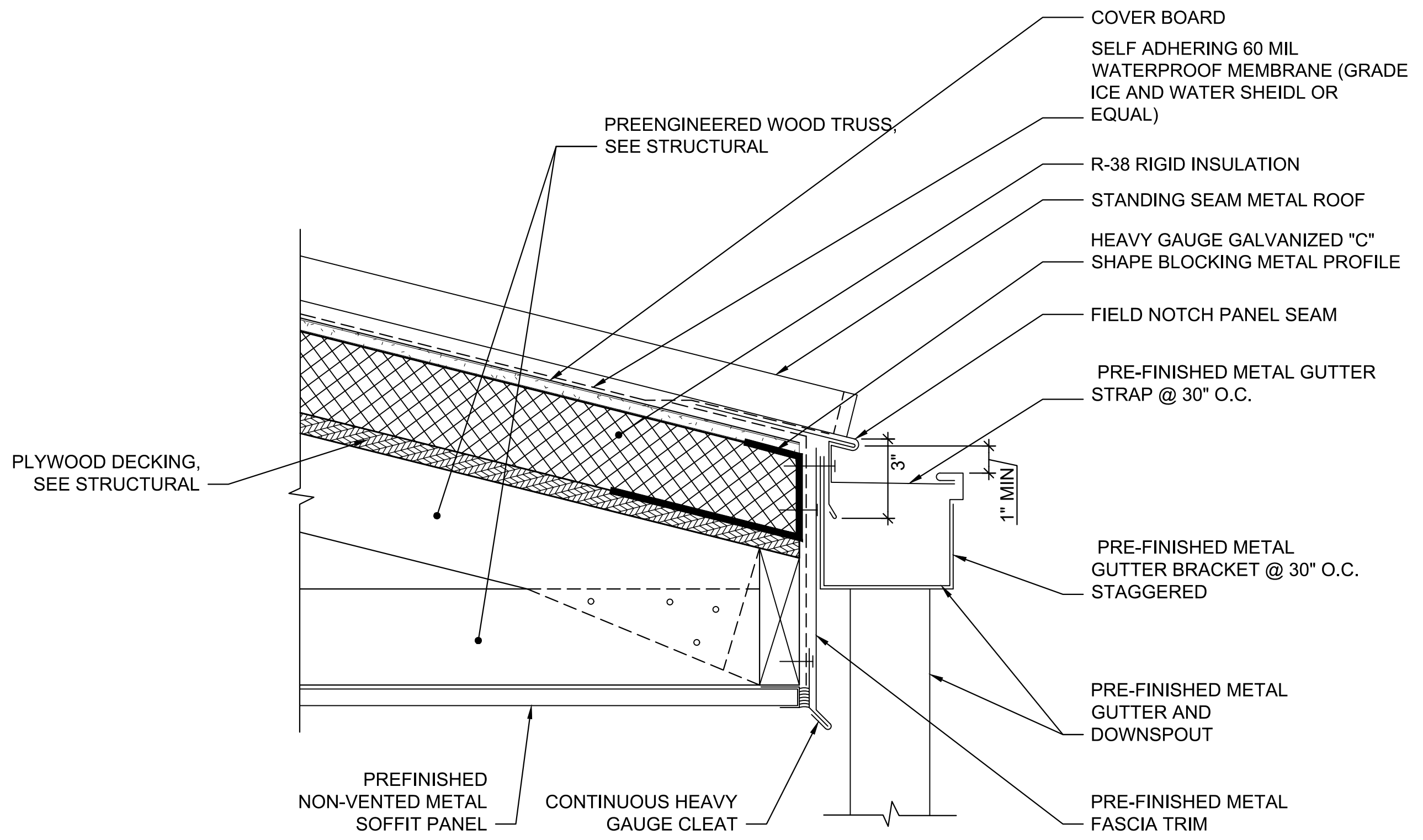
NOTE:
 MIN. 18 GAUGE (TO MATCH PREFINISHED METAL ROOF PANEL) GALVANIZED PRE-FINISHED STEEL ALL WELDED ONE PIECE CONSTRUCTION, 8" MINIMUM CURB HEIGHT, WITH BUILT-IN CRICKET TO DIVERT WATER. ANCHOR TO MEET WIND LOAD.



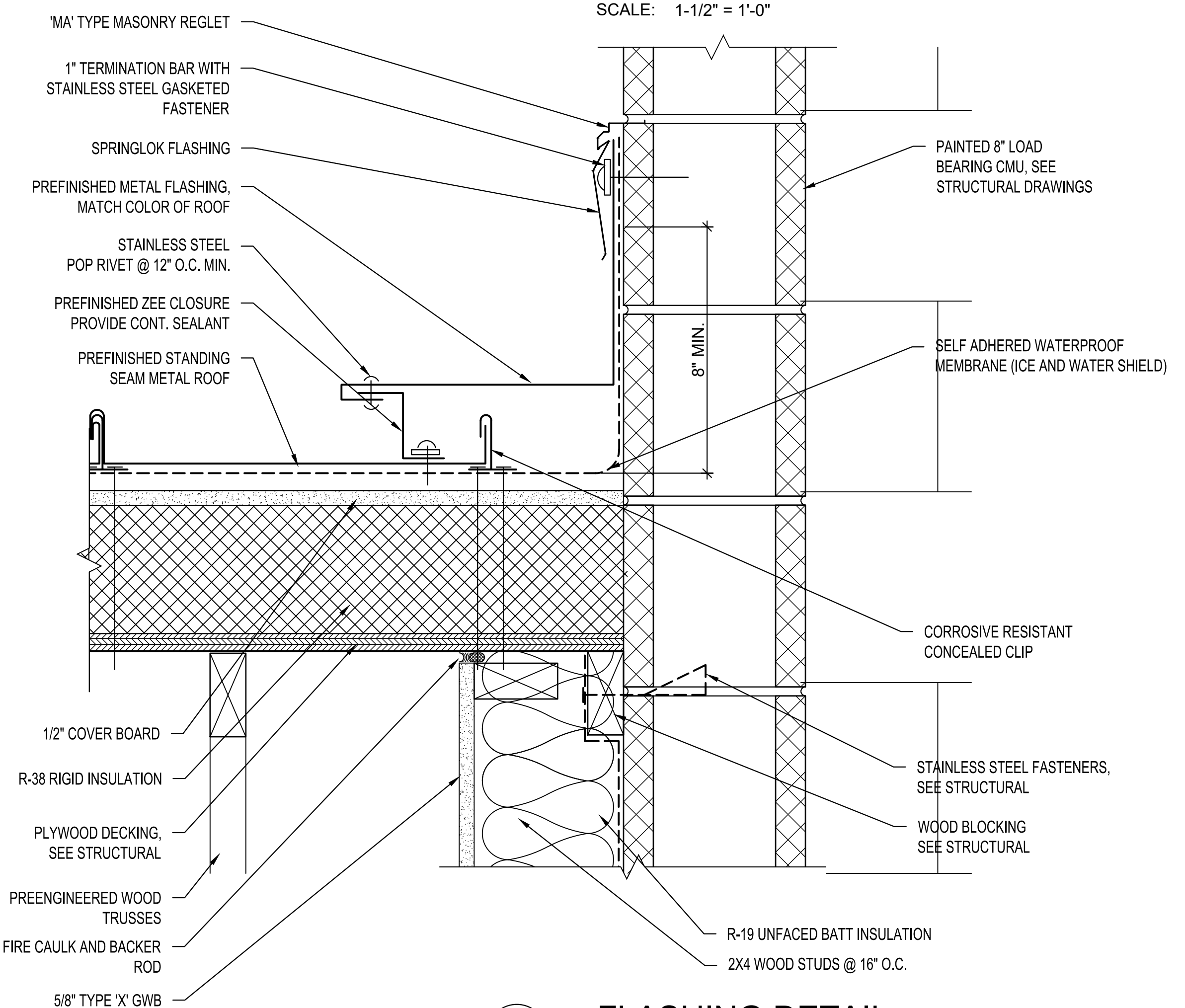
2 CURB FLASHING DETAIL
 8" 4" 0" 8" 1'-4"
 SCALE: 1-1/2" = 1'-0"



3 ROOF CURB DETAIL
 8" 4" 0" 8" 1'-4"
 SCALE: 1-1/2" = 1'-0"



4 GUTTER DETAIL @ LOW ROOF
 4" 2" 0" 4" 8"
 SCALE: 3" = 1'-0"



5 FLASHING DETAIL
 4" 2" 0" 4" 8"
 SCALE: 3" = 1'-0"

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HARDWARE SCHEDULE

<p>HW-1 - MAIN ENTRANCE</p> <p>1.5 PR HINGES 1 EA CLOSERS 1 EA CYLINDRICAL LOCK F82 1 EA WEATHERSTRIPPING AT HEAD, JAMB AND SILL 1 EA WALL STOP 1 EA SILL THRESHOLD 1 EA KICK PLATE 1 EA MOP PLATE</p> <p>HW-2 - OFFICES</p> <p>1.5 PR HINGES 1 EA CYLINDER LOCK OFFICE 1 EA WALL MOUNTED DOOR STOPS 1 EA CLOSER 1 SET DOOR SILENCER</p> <p>HW-3 - JANITOR CLOSET</p> <p>1.5 PR HINGES 1 EA CYLINDER LOCK STOREROOM 1 EA WALL MOUNTED DOOR STOPS 1 EA MOP PLATE (BOTH SIDES)</p> <p>HW-4 - HVAC CLOSET</p> <p>3 PR HINGES 1 EA CLOSER (NON-OPERABLE DOOR) 1 EA CYLINDER LOCK STOREROOM (OPERABLE DOOR) 2 EA FLOOR MOUNTED DOOR STOPS 2 EA RECESSED FLUSH BOLTS (NON-OPERABLE DOOR, TOP AND BOTTOM)</p> <p>HW-5 - RESTROOMS</p> <p>1.5 PR HINGES 1 EA CLOSER 1 EA PULL 1 EA PUSH PLATE 1 EA WALL MOUNTED STOPS 1 EA MOP PLATE (BOTH SIDES) 1 SET SILENCERS</p>	<p>HW-6 - ELECTRICAL AND COMMUNICATION ROOM</p> <p>1.5 PR HINGES 1 EA CLOSERS 1 EA CYLINDRICAL LOCK STOREROOM 1 EA WEATHERSTRIPPING AT HEAD, JAMB AND SILL 1 EA SILL THRESHOLD 1 EA KICK PLATE</p> <p>HW-7 - TOILET ROOM</p> <p>1.5 PR HINGES 1 EA CYLINDER LOCK PRIVACY SET, LEVER 1 EA WALL MOUNTED DOOR STOPS 1 EA KICK PLATE</p> <p>HW-8 - DOUBLE DOOR BETWEEN DAY ROOM</p> <p>3 PR HINGES 2 EA PUSH PLATE 2 EA PULL PLATE 2 EA CLOSER 2 EA KICKDOWN DOOR HOLDERS 2 EA WALL MOUNTED DOOR STOPS 2 EA MOP PLATE (BOTH SIDES)</p> <p>HW-9 - FIRE RATED DOOR TO APPARATUS BAY</p> <p>1.5 PR HINGES 1 EA CLOSER 1 EA CYLINDER LOCK F75 1 EA WALL MOUNTED DOOR STOP 1 EA KICK PLATE 1 EA FIRE SEAL (HEAD, JAMB AND SILL)</p> <p>HW-10 - EXTERIOR DOORS</p> <p>1.5 PR HINGES 1 EA CLOSER 1 EA CYLINDRICAL LOCK F82 1 EA WEATHERSTRIPPING AT HEAD, JAMB AND SILL 1 EA SILL THRESHOLD 1 EA KICK PLATE</p>	<p>HW-11 - OHCD</p> <p>1 EA PADLOCK</p> <p>NOTE:</p> <ol style="list-style-type: none"> ALL HARDWARE BASED ON FALCON MANUFACTURER OR EQUAL. LOCKS SHALL BE ABLE TO RECEIVE BEST LOCK. COORDINATE WITH USER TYPE OF PIN. ALL HARDWARE SHALL BE SATIN FINISH. ALL DOOR HANDLES SHALL BE LEVER TYPE.
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DOOR, WINDOW SCHEDULE

DOOR AND FRAME SCHEDULE														
MARK	DOOR						FRAME		DETAILS			HW	FIRE RATING	NOTES
	WD	HGT	THK	MATL	Type	GLAZING	MATL	EL	HEAD	JAMB	SILL			
100	3'-0"	7'-0"	2"	HM	FG	G3	HM	--	4/A-601	5/A-601	3/A-601	HW-1	--	1, 2, 3
102	5'-0"	7'-0"	1 3/4"	WD	LV	--	HM	--	1/A-601	2/A-601	2/A-510	HW-4	--	--
103	6'-0"	7'-0"	1 3/4"	WD	FG	G2	HM	--	1/A-601	2/A-601	--	HW-8	--	--
104	3'-0"	7'-0"	1 3/4"	WD	FP	--	HM	--	1/A-601	2/A-601	3/A-510	HW-5	--	--
105	3'-0"	7'-0"	1 3/4"	WD	FP	--	HM	--	1/A-601	2/A-601	3/A-510	HW-5	--	--
106	3'-0"	7'-0"	1 3/4"	WD	LV	--	HM	--	1/A-601	2/A-601	--	HW-7	--	--
107	3'-0"	7'-0"	1 3/4"	HM	FP	--	HM	--	1/A-601	2/A-601	--	HW-3	--	--
108	3'-0"	7'-0"	1 3/4"	HM	FP	--	HM	--	4/A-601	5/A-601	3/A-601	HW-10	--	--
109	3'-0"	7'-0"	1 3/4"	IHM	FP	--	HM	--	4/A-601	5/A-601	3/A-601	HW-6	--	--
110	3'-0"	7'-0"	1 3/4"	IHM	FP	--	HM	--	4/A-601	5/A-601	3/A-601	HW-6	--	--
111	3'-0"	7'-0"	1 3/4"	WD	NV	G1	HM	--	1/A-601	2/A-601	1/A-510	HW-2	--	--
112	3'-0"	7'-0"	1 3/4"	WD	NV	G1	HM	--	1/A-601	2/A-601	1/A-510	HW-2	--	--
113	3'-0"	7'-0"	1 3/4"	IHM	FP	--	HM	--	4/A-601	5/A-601	3/A-601	HW-9	1.5	--
114	3'-0"	7'-0"	1 3/4"	HM	FP	--	HM	--	4/A-601	5/A-601	3/A-601	HW-3	--	--
115	3'-0"	7'-0"	1 3/4"	HM	FP	--	HM	--	4/A-601	5/A-601	--	HW-10	--	--
116	14'-0"	14'-0"	1"	STL	OHCD	--	STL	--	8/A-601	9/A-601	10/A-601	HW-11	--	--
117	3'-0"	7'-0"	1 3/4"	HM	FP	--	HM	--	4/A-601	5/A-601	3/A-601	HW-10	--	--
118	14'-0"	14'-0"	1"	STL	OHCD	--	STL	--	8/A-601	9/A-601	10/A-601	HW-11	--	--

WINDOW SCHEDULE							
TYPE	SIZE		MATERIAL	DETAILS			REMARKS
	Width	HEIGHT		HEAD	JAMB	SILL	
A	4'-0"	4'-0"	ALUM	6/A-601	6/A-601	7/A-601	2, 8
	4'-0"	4'-0"	ALUM	6/A-601	6/A-601	7/A-601	2, 8
	4'-0"	4'-0"	ALUM	6/A-601	6/A-601	7/A-601	2, 8
	4'-0"	4'-0"	ALUM	6/A-601	6/A-601	7/A-601	2, 8
	4'-0"	4'-0"	ALUM	6/A-601	6/A-601	7/A-601	2, 8
	4'-0"	4'-0"	ALUM	6/A-601	6/A-601	7/A-601	2, 8

REMARKS

- IMPACT GLAZING
- 1" INSULATED LOW-E LAMINATED GLAZING WITH TEMPERATE SAFETY GLAZING ON THE INSIDE.
- ALL EXTERIOR GLAZING SHALL BE IMPACT RESISTANT AND SHALL MEET FLORIDA PRODUCT APPROVAL PROCESS. PROVIDE FLORIDA PRODUCT APPROVAL NUMBER WITH SUBMITTAL.
- PROVIDE ROUGH-IN CONDUIT FOR FUTURE ELECTRIC COILING DOOR MOTOR AND ACCESSORIES. SEE ELECTRICAL DRAWINGS.
- REFER TO MECHANICAL DRAWINGS FOR ALL UNDERCUTS.
- REFER TO STRUCTURAL DRAWINGS FOR WIND PRESSURE WHEN SUBMITTING EXTERIOR CLADDING, WINDOWS AND DOORS PRODUCT DATA.

BASKERVILLE-DONOVAN, INC.
 Innovative Infrastructure Solutions
 440 W. MAIN ST. PENSACOLA, FL 32502 (850) 438-9661
 ENGINEERING BUSINESS: EB0000340
 Panama City Beach - Tallahassee - Mobile - Breward County - Tampa
 This drawing is the property of BASKERVILLE-DONOVAN, INC. and is not to be reproduced in whole or in part. It is not to be used on any other project and is to be returned upon request.

FINISH SCHEDULE

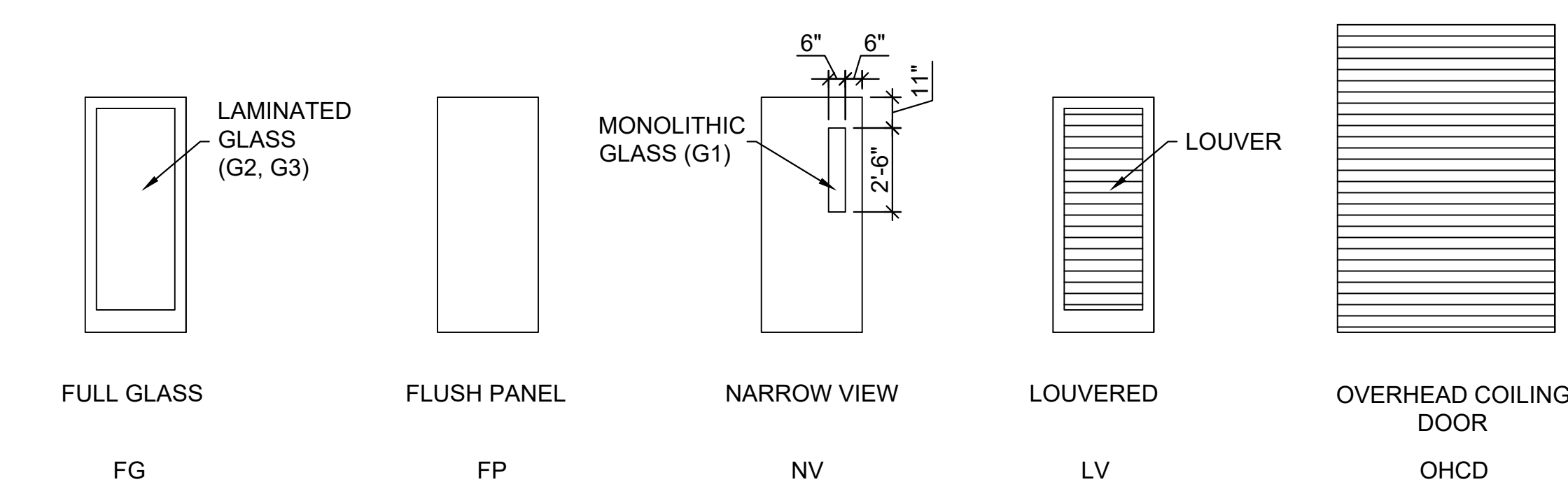
ROOM FINISH SCHEDULE									
Number	ROOM NAME	FLOOR/BASE	WALLS				CEILING		NOTES
			NORTH	EAST	SOUTH	WEST	MATL	HEIGHT	
101	APPARATUS BAY	SC	PT/CMU	PT/CMU	PT/CMU	PT/CMU	MRGWB	17'-4"	--
102	CORRIDOR	VCT/RB	PT/GWB	PT/GWB	PT/GWB	PT/GWB	ACT	8'-6"	--
103	OFFICE	CPT/RB	PT/GWB	PT/GWB	PT/GWB	PT/GWB	ACT	8'-0"	--
104	OFFICE	CPT/RB	PT/GWB	PT/GWB	PT/GWB	PT/GWB	ACT	8'-0"	--
105	DAY ROOM	VCT/RB	PT/GWB	PT/GWB	PT/GWB	PT/GWB	ACT	8'-6"	--
106	RECREATIONAL RM.	CPT/RB	PT/GWB	PT/GWB	PT/GWB	PT/GWB	ACT	8'-6"	--
107	MEN'S	PCT/PTB	PT/MRGWB	PT/MRGWB	PT/MRGWB	PT/MRGWB	MRGWB	8'-0"	--
108	WOMEN'S	PCT/PTB	PT/MRGWB	PT/MRGWB	PT/MRGWB	PT/MRGWB	MRGWB	8'-0"	--
109	MECH	SC	PT/GWB	PT/GWB	PT/GWB	PT/GWB	NONE	10'-0"	--
110	STORAGE	EP/RB	PT/CMU	PT/CMU	PT/CMU	PT/CMU	MRGWB	8'-0"	--
111	ELEC.	SC/RB	PT/GWB	PT/CMU	PT/GWB	PT/GWB	NONE	10'-0"	--
113	IT RM	SC/RB	PT/GWB	PT/GWB	PT/CMU	PT/CMU	NONE	8'-0"	--
114	HVAC	SC/RB	PT/GWB	PT/GWB	PT/GWB	PT/GWB	GWB	8'-0"	--
115	JAN. CLST	VCT/RB	PT/MRGWB	PT/MRGWB	PT/MRGWB	PT/MRGWB	MRGWB	8'-0"	--

NOTE:
 REFER TO SHEET A-700 FOR ADDITIONAL INFORMATION ON SPECIFIC PRODUCT FINISHES. PRODUCT SELECTED ARE FOR DESIGN REFERENCE ONLY. SUBMIT EQUAL PRODUCT FOR APPROVAL.

REMARKS

- PROVIDE MOISTURE RESISTANT GYPSUM WALLBOARD ABOVE SHOWER CEILINGS AND SURROUNDING WALLS.
- PROVIDE MOISTURE RESISTANT GYPSUM WALLBOARD AT WALLS AND CEILINGS IN RESTROOMS AND JANITOR'S CLOSET.
- PROVIDE HORIZONTAL SLAT WINDOW BLINDS. SEE PRODUCT INFORMATION ON SHEET A-700.

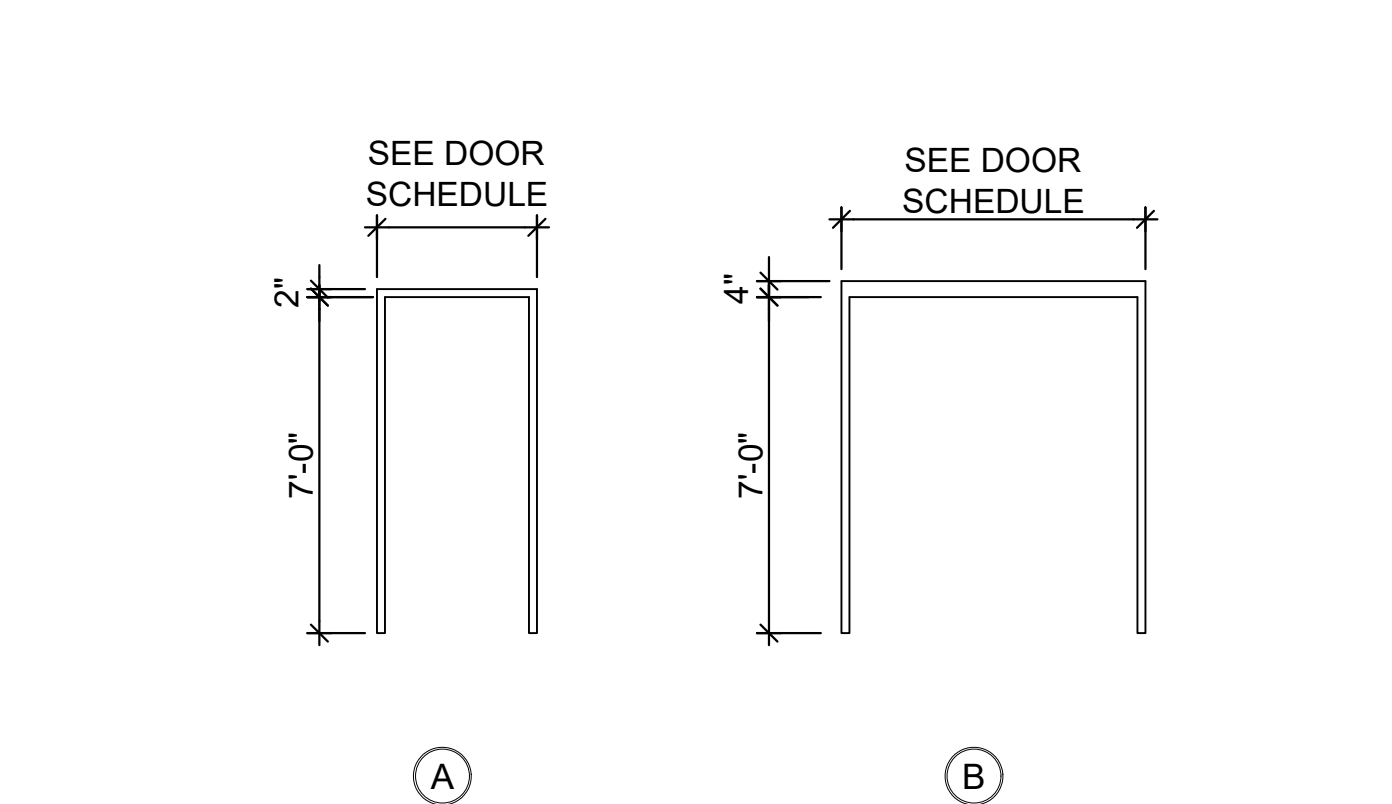
DOOR ELEVATIONS



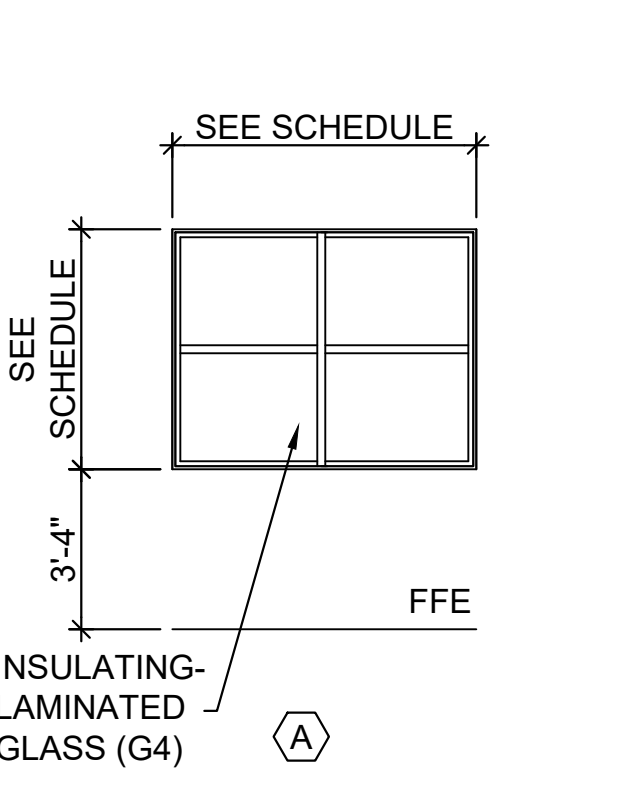
GLASS SCHEDULE

- A. MONOLITHIC GLASS (G1):**
- CLEAR FULLY TEMPERED FLOAT GLASS
 - MINIMUM THICKNESS: 1/4 INCH, 6MM.
 - SAFETY GLAZING REQUIRED.
- B. LAMINATED GLASS FOR INTERIOR DOORS (G2):**
- LAMINATED GLASS WITH TWO PLYS OF FULLY TEMPERED FLOAT GLASS WITH BOTH PLY CLEAR.
 - TINT COLOR: MATCH EXISTING MAIN BUILDING GLAZING.
 - MINIMUM THICKNESS: 1/4 INCH.
 - INTERLAYER THICKNESS: 0.030 INCH.
 - SAFETY GLAZING REQUIRED.
- C. LAMINATED GLASS FOR EXTERIOR DOORS (G3):**
- TINTED LAMINATED GLASS WITH TWO PLYS OF FULLY TEMPERED FLOAT GLASS WITH OUTER PLY TINTED AND INNER PLY CLEAR.
 - TINT COLOR: MATCH EXISTING MAIN BUILDING GLAZING.
 - MINIMUM THICKNESS: 9/16 INCH.
 - INTERLAYER THICKNESS: 0.090 INCH.
 - LOW-E COATING: SOLARBAN 70XL
 - SAFETY GLAZING REQUIRED.
- D. INSULATING-LAMINATED-GLASS FOR WINDOWS (G4):**
- LOW-ECOATED, TINTED, INSULATING LAMINATED GLASS.
 - TOTAL OVERALL UNIT THICKNESS: 1-5/16 INCH.
 - MINIMUM THICKNESS OF OUTDOOR LITE: 1/4 INCH.
 - OUTDOOR LITE: TINTED FULLY TEMPERED FLOAT GLASS.
 - TINT COLOR: MATCH EXISTING MAIN BUILDING GLAZING.
 - INTERSPACE CONTENT: AIR.
 - MINIMUM THICKNESS OF INDOOR LAMINATED LITE: 9/16 INCH.
 - INTERLAYER THICKNESS: 0.090 INCH.
 - LOW-E COATING: PYROLYTIC ON SECOND SURFACE.
 - SAFETY GLAZING REQUIRED.

FRAME ELEVATIONS



WINDOW TYPE



ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
FFE	FINISHED FLOOR ELEVATION
FG	FULL GLASS
FP	FLUSH PANEL
HM	HOLLOW METAL
IHM	INSULATED HOLLOW METAL
INSUL	INSULATION
LAM	LAMINATED
NV	NARROW VIEW
STC	SOUND TRANSMITTANCE COEFFICIENT
STL	STEEL
TEMP	TEMPERED
WD	WOOD
WM	WIRE MESH

100% RTA SUBMITTAL

PROJECT NO: 25898.03
 DESIGNED BY: DB
 DRAWN BY: DB
 CHK'D BY: SK
 PROJ. MGR: --
 DATE: JULY 2016

NO. DATE APPR. REVISION/ACTION TAKEN

DOOR, WINDOW AND FINISH SCHEDULES

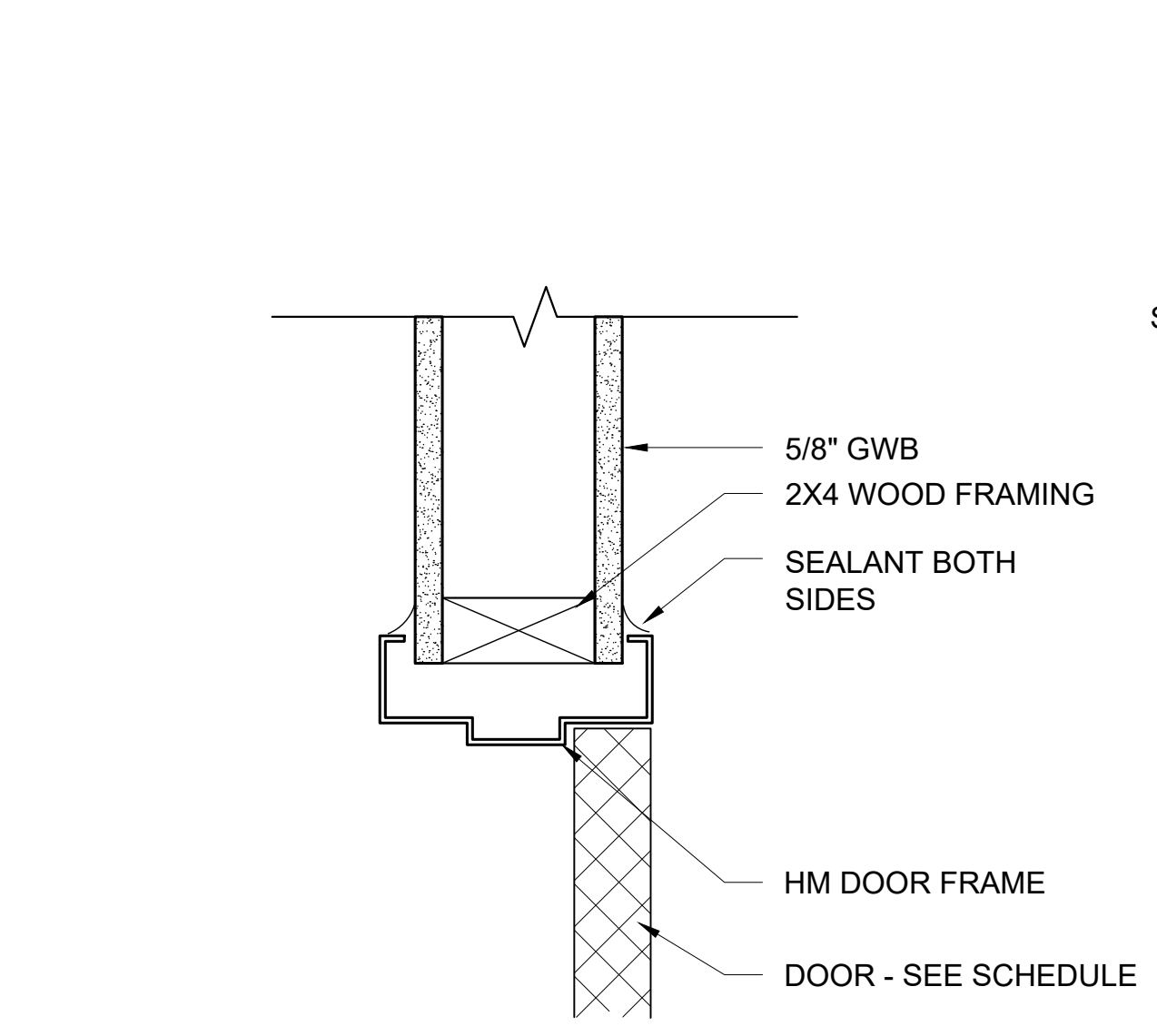
A-600

OLF-X
 PHASE II - AIRFIELD

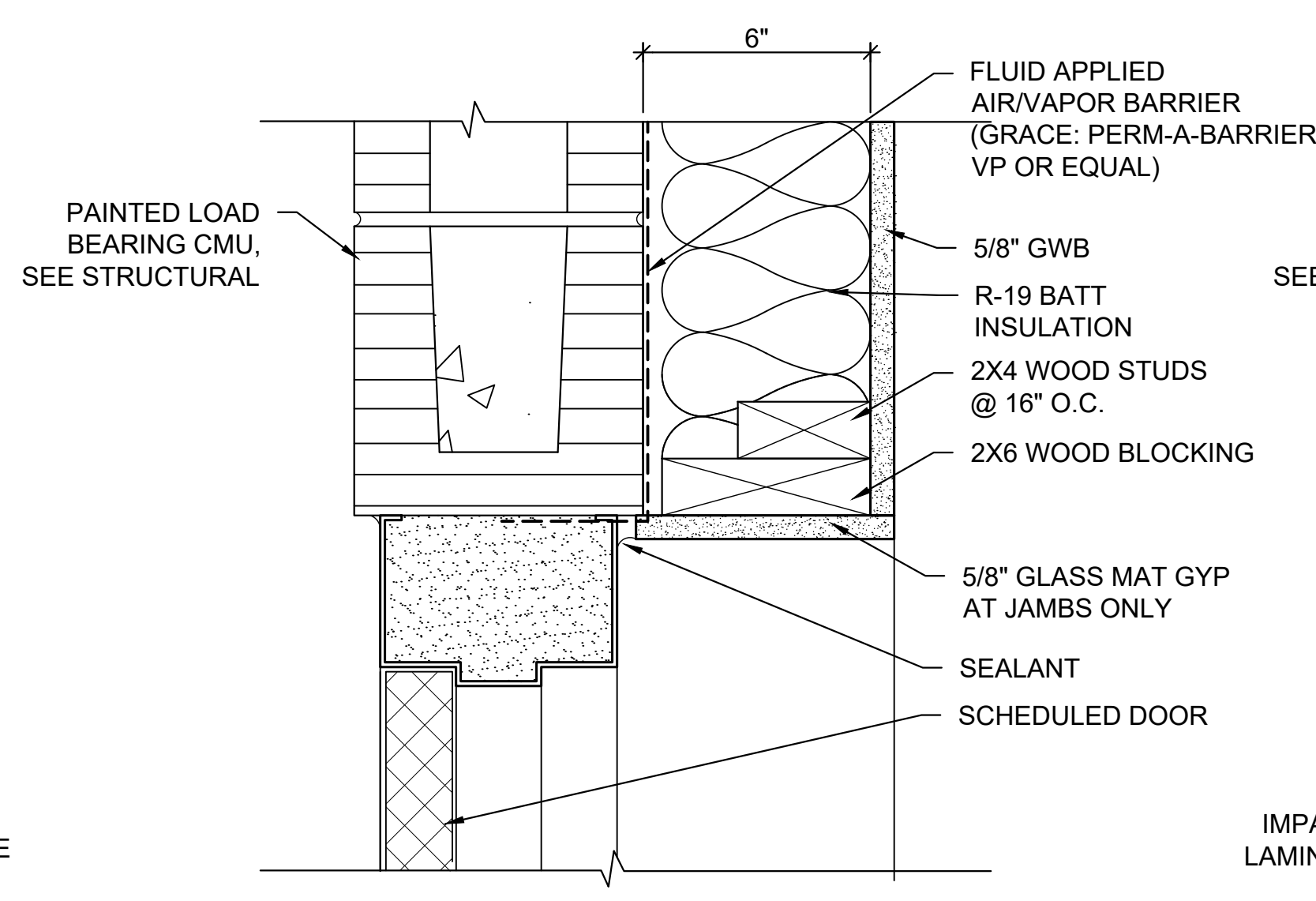
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NO.	DATE	APPR.	REVISION/ACTION TAKEN

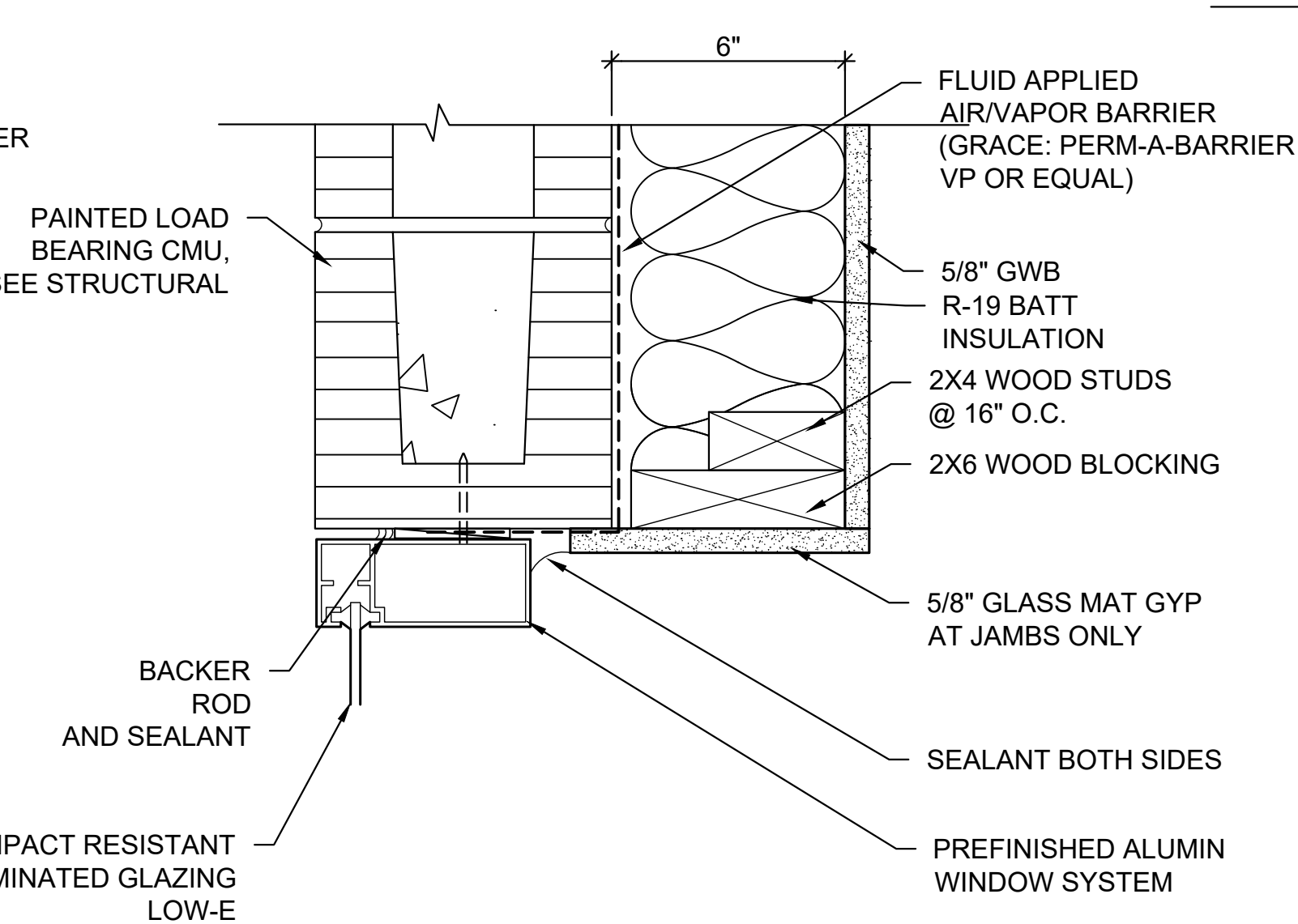
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DESIGNED BY:	DB
DRAWN BY:	DB
CHK'D BY:	SK
PROJ. MGR.:	-
DATE:	JULY 2016



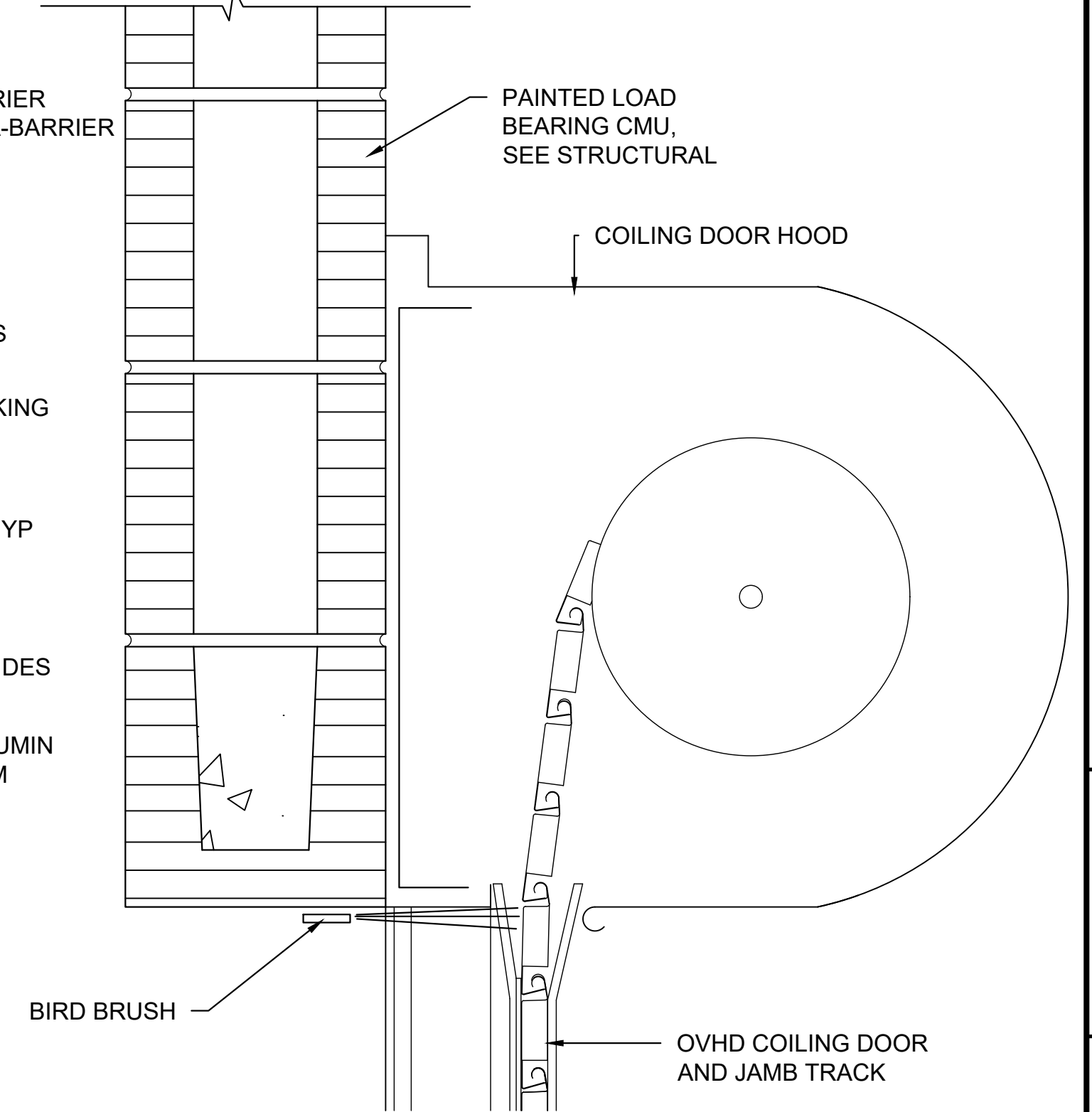
1 DOOR HEAD DETAIL
 SCALE: 3" = 1'-0"



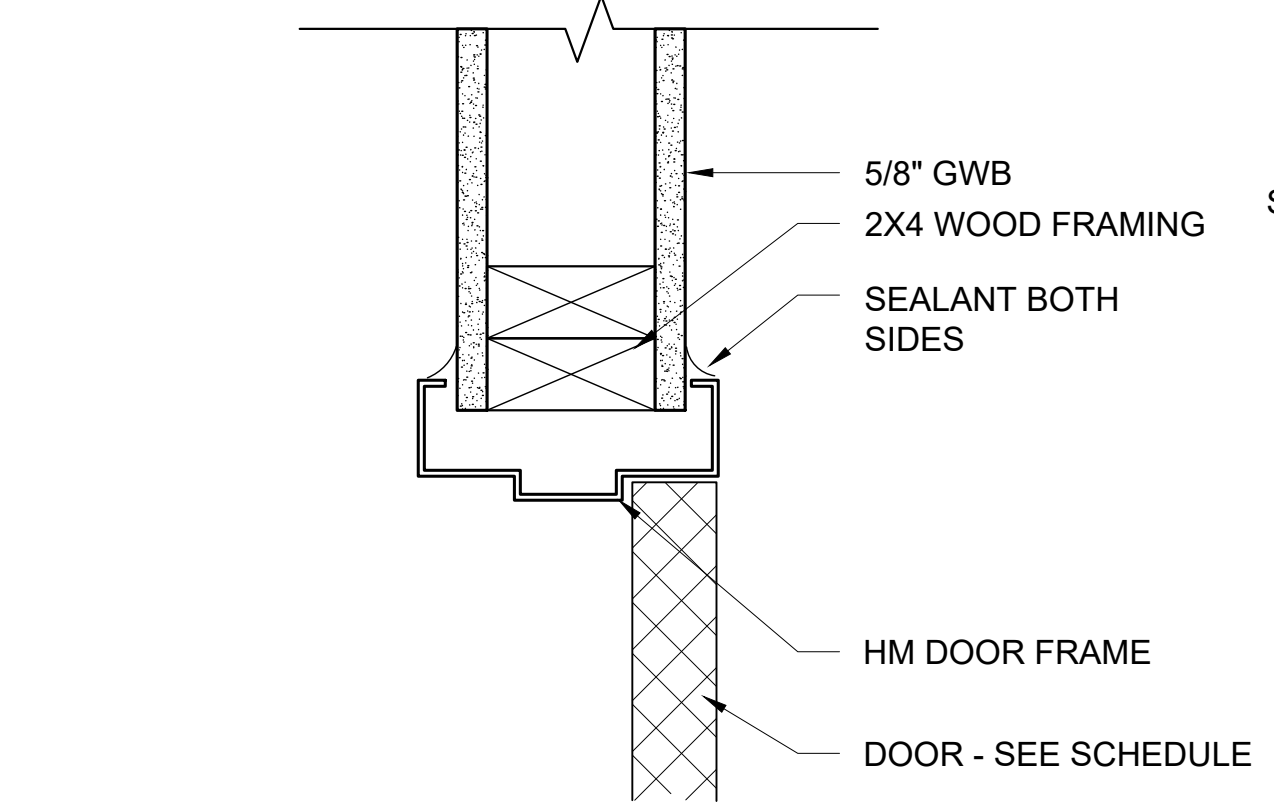
4 DOOR HEAD DETAIL
 SCALE: 3" = 1'-0"



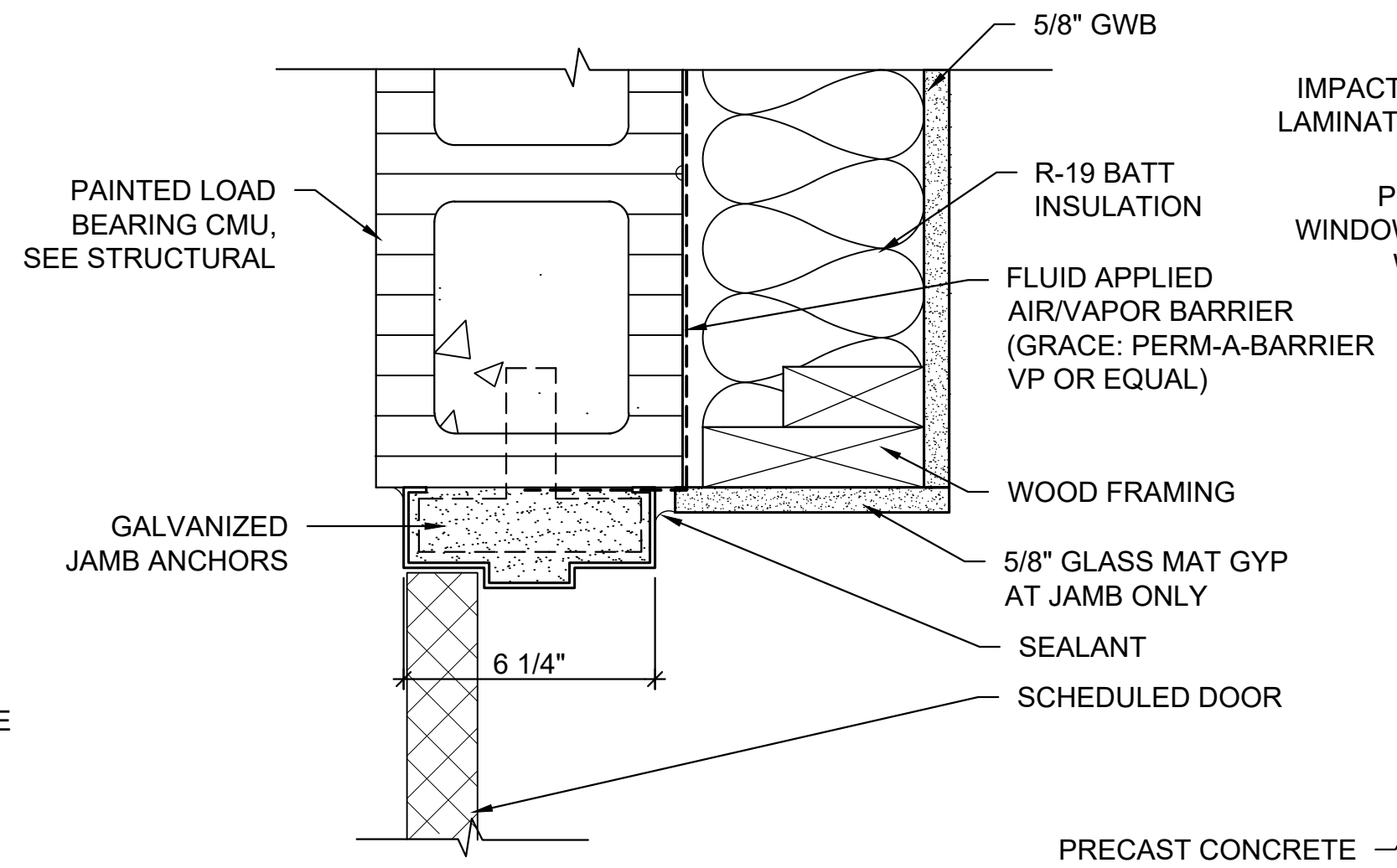
6 WINDOW HEAD/JAMB DETAIL
 SCALE: 3" = 1'-0"



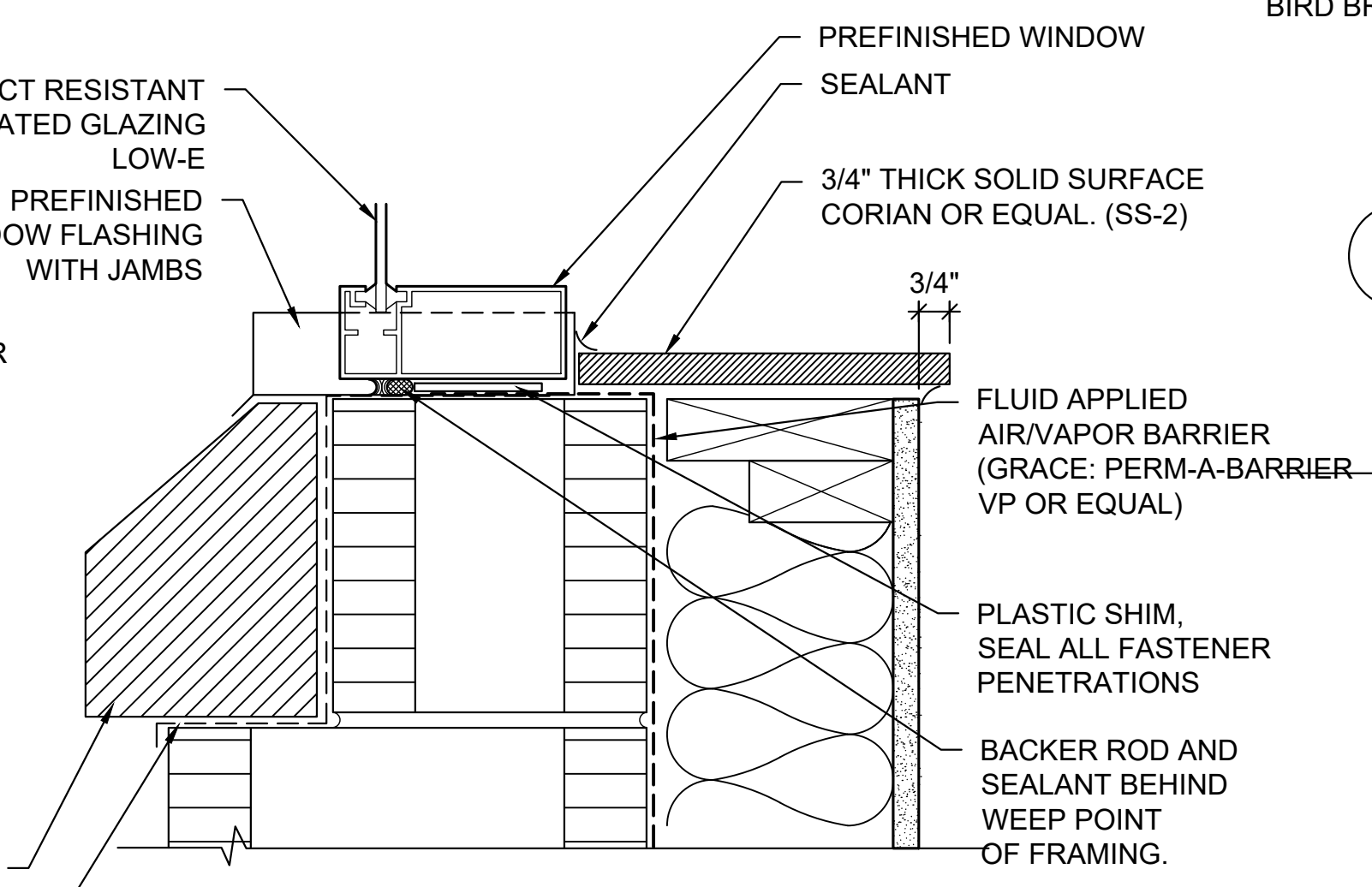
8 OHCD DOOR HEAD DETAIL
 SCALE: 3" = 1'-0"



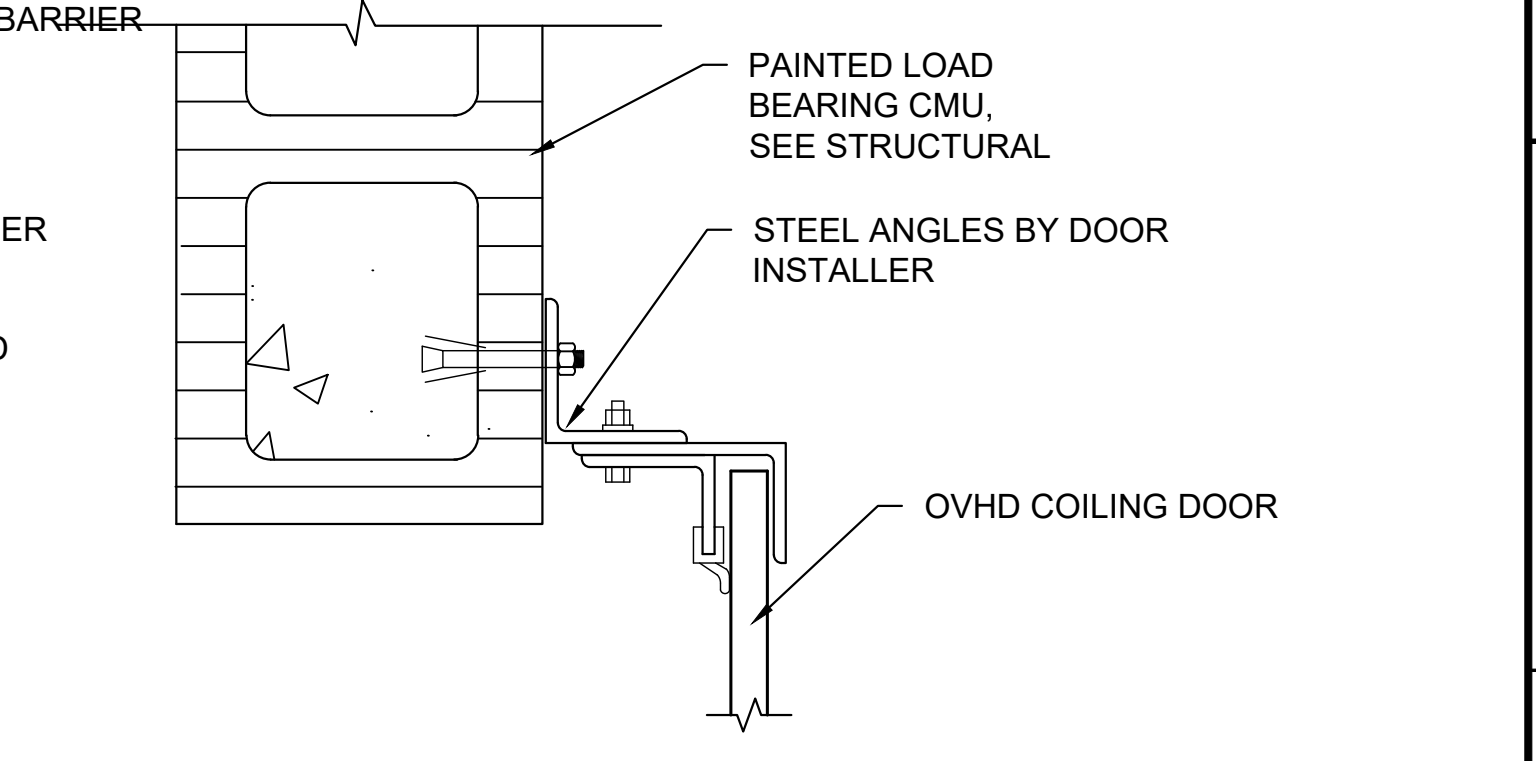
2 DOOR JAMB DETAIL
 SCALE: 3" = 1'-0"



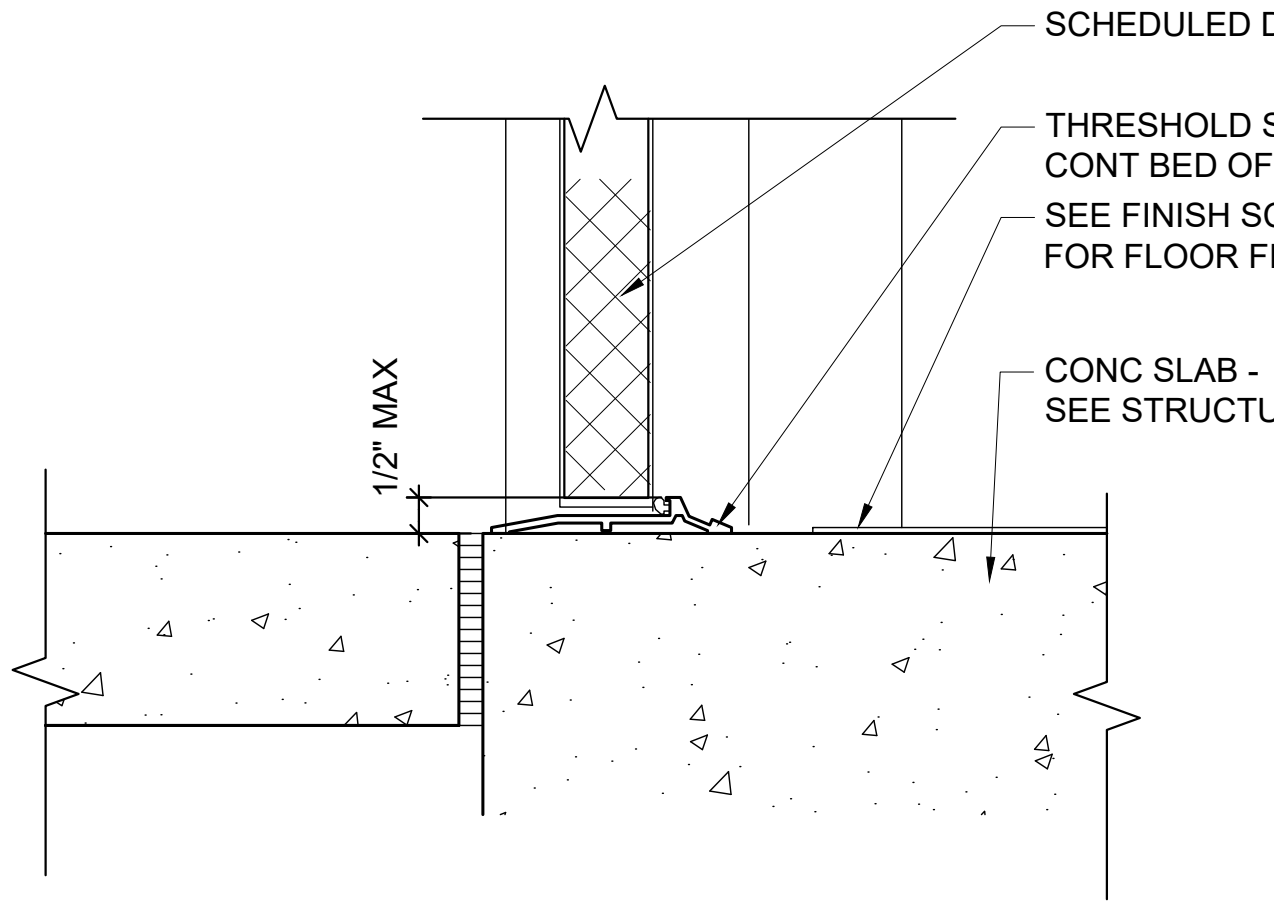
5 DOOR JAMB DETAIL
 SCALE: 3" = 1'-0"



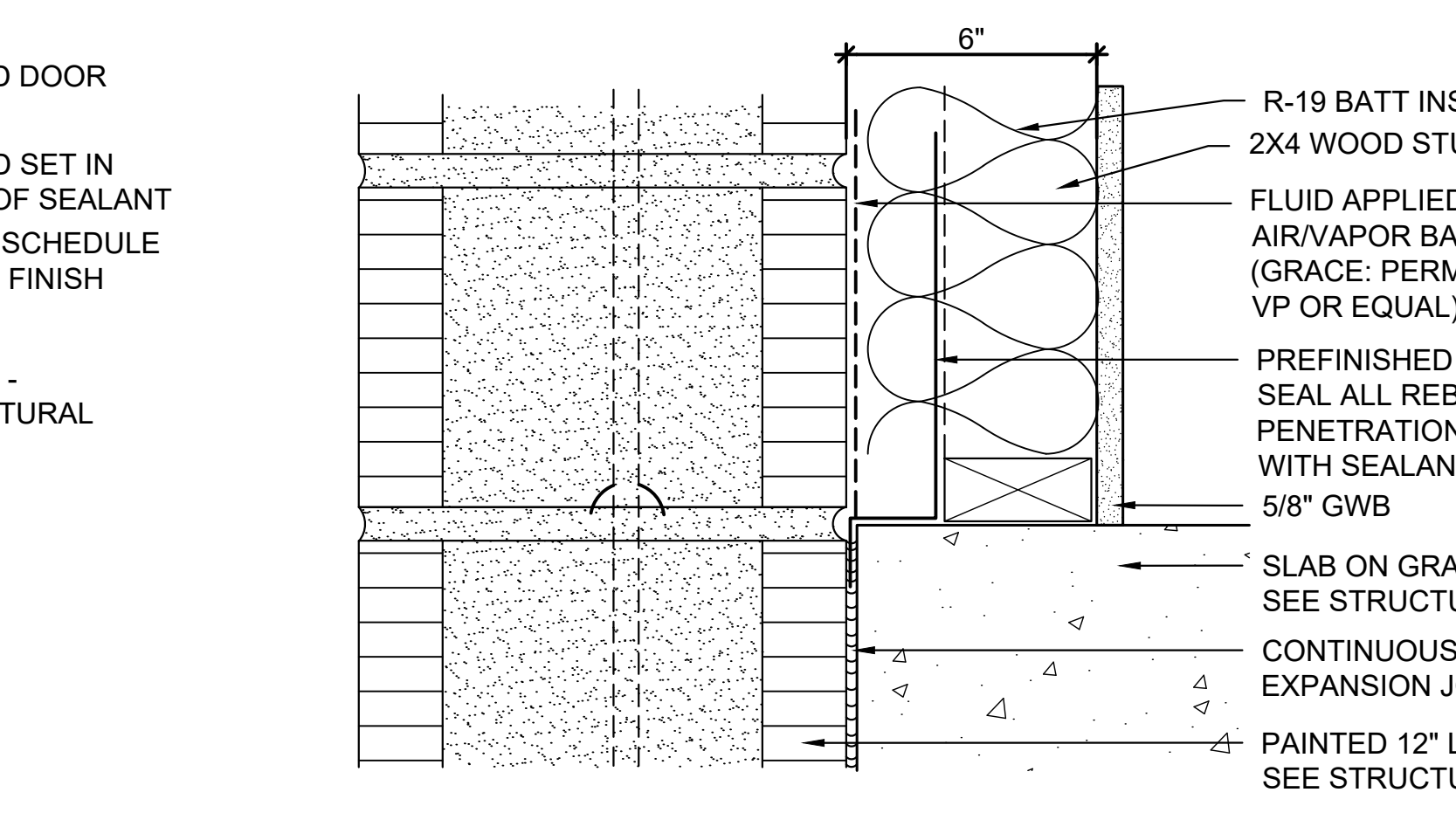
7 WINDOW SILL DETAIL
 SCALE: 3" = 1'-0"



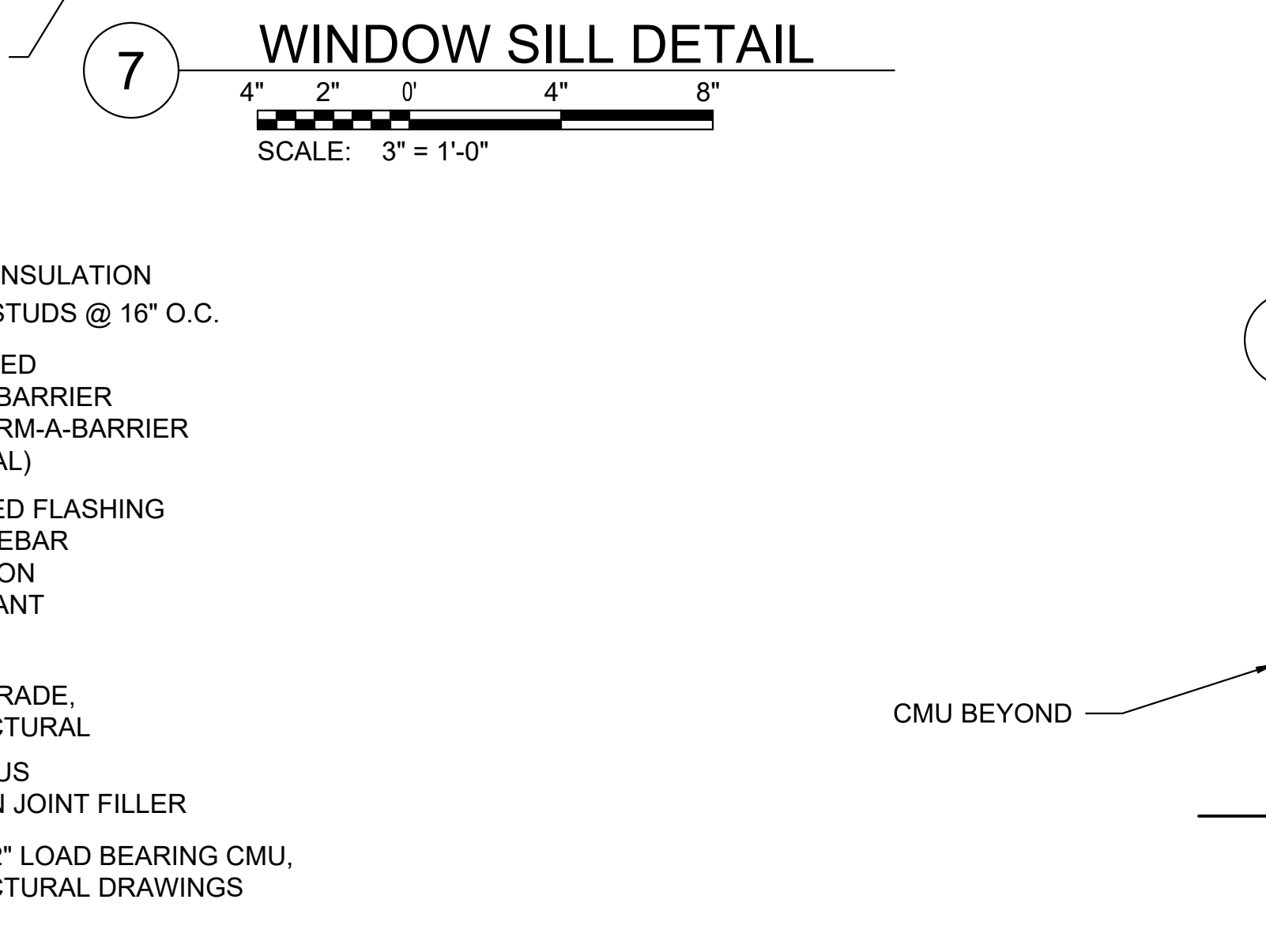
9 OHCD DOOR JAMB DETAIL
 SCALE: 3" = 1'-0"



3 DOOR THRESHOLD DETAIL
 SCALE: 3" = 1'-0"



11 TYPICAL WALL BASE DETAIL
 SCALE: 3" = 1'-0"



10 OHCD DOOR SILL DETAIL
 SCALE: 3" = 1'-0"

J:\2014\pr\14073 BDI OLF Support Bldgs\Drawgs\WD\A-DWG\A-601.dwg, Jan 25, 2018 - 3:02:51PM, ysimon

ROOM SIGNAGE SCHEDULE						
Mark	ROOM NUMBER	ROOM NAME	SIGN TYPE	TEXT	WALL	REMARKS
1	110	AGENT STOR.	BB4	-	WALL	-
2	101	APPARATUS BAY	BB4	-	WALL	-
3	105	DAY ROOM	BB4	-	WALL	-
4	103	OFFICE	BB4	-	WALL	-
5	104	OFFICE	BB4	-	WALL	-
6	114	HVAC	BB4	-	WALL	-
7	106	RECREATIONAL RM.	BB4	-	WALL	-
8	108	WOMEN'S	BB7	-	WALL	-
9	107	MEN'S	BB7	-	WALL	-
10	115	JAN. CLOSET	BB4	-	WALL	-
11		EXTERIOR	DD1	-	WALL	-
12		EXTERIOR	BH	-	WALL	-
13		EXTERIOR	DD1	-	WALL	-
14		EXTERIOR	DD1	-	WALL	-
15		EXTERIOR	DD1	-	WALL	-
16		EXTERIOR	DD1	-	WALL	-
17		EXTERIOR	DD1	-	WALL	-
18		EXTERIOR	BH	-	WALL	-

ROOM SIGNAGE COUNT	
BB4	8
BB7	2
BN	2
DD1	6

SIGNAGE COMMENTS:

- EXTERIOR BUILDING NUMBERS SHALL BE PREFINISHED ALUMINUM (1/8" THICK)
- INTERIOR SIGNAGE SHALL BE ACRYLIC PLASTIC 0.080 INCH THICKNESS MIN. CONFORMING TO ANSI Z97.1
- ALL INTERIOR SIGNAGE SHALL ADHERE OR BE CONCEALED FASTENED TO ADJACENT SURFACE.
- PROVIDE COLOR PALLETTE FOR FINAL APPROVAL TO OWNER.
- PROVIDE WARRANTY AGAINST DEFECTS IN WORKMANSHIP AND MATERIAL FOR A PERIOD OF 2 YEARS.
- RAISED LETTERS, BRAILLE AND NUMBER ON ALL SIGNS SHALL CONFORM TO 36 CFR 1191.
- FONTS AND LETTER SIZES SHALL BE COORDINATED WITH OWNER FOR FINAL APPROVAL.

BASIS OF DESIGN: INTERIOR FINISH MATERIAL AND COLOR LEGEND

CODE	MATERIAL	MANUFACTURER	STYLE	COLOR	REMARKS
FLOORING					
CPT	CARPET TILE	BIGELOW	ELEMENTAL FACTOR	7861 NORTHWOODS	24x24
PCT	PORCELAIN TILE	DALTILE	KEYSTONES	D050 MOTTLED MEDIUM BROWN	2x2
VCT	VINYL COMPOSITION TILE	ARMSTRONG	IMPERIAL TEXTURE	51805 CAMEL BEIGE	12x12
SC	SEALED CONCRETE	TENNANT	WEARGUARD	420 CLEAR	

BASE					
PTB	PORCELAIN TILE BASE	DALTILE	CITY VIEW	CY05 NEIGHBORHOOD PARK	6x12 (COVE)
RB/TS	RUBBER BASE/ TRANSITION STRIP	FLEXCO		02 BARK	4" HIGH

WALLS - INTERIOR					
P-1	PAINT (INTERIOR WALLS)	SHERWIN WILLIAMS		6126 NAVAJO WHITE	EGGSHELL
P-2	PAINT (INTERIOR DOOR FRAMES)	SHERWIN WILLIAMS		6122 CAMELBACK	EGGSHELL
P-3	PAINT (RESTROOMS ONLY)	SHERWIN WILLIAMS		6126 NAVAJO WHITE	SEMI-GLOSS

WALLS - EXTERIOR					
P-5	PAINT (EXTERIOR DOORS)	SHERWIN WILLIAMS		MATCH: FED-STD #30140	SEMI-GLOSS
P-6	PAINT (EXTERIOR WALLS)	SHERWIN WILLIAMS		MATCH: FED-STD #36586	EGGSHELL

CEILING					
P-4	PAINT	SHERWIN WILLIAMS		7007 CEILING BRIGHT WHITE	FLAT
ACT	ACOUSTICAL TILE	ARMSTRONG	CORTEGA	WHITE - SQUARE LAY-IN	24x24

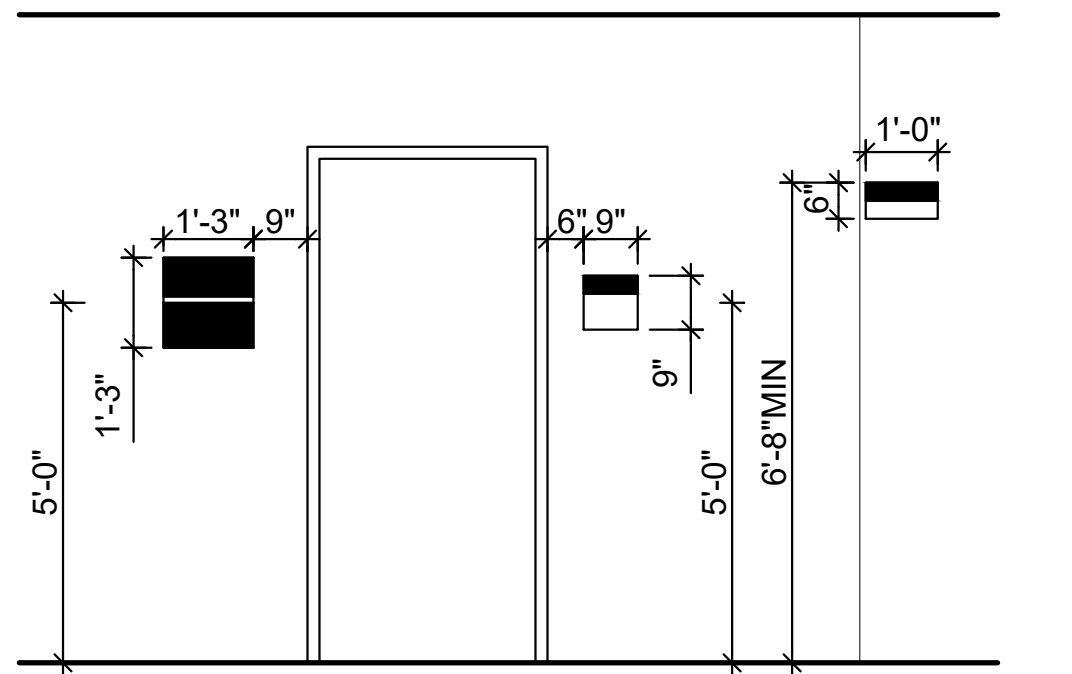
MISCELLANEOUS					
LCK	LOCKERS	SALSBURY MODEL #7150 TA-50	TAN		SEE NOTE # 10
PL-1	PLASTIC LAMINATE	WILSONART	7122K-07 EMPIRE MAHOGANY		
PL-2	PLASTIC LAMINATE	WILSONART	7959K-78 HAMPTON WALNUT		
SS-1	SOLID SURFACE	CORIAN	THYME		1/2" THICK
SS-2	SOLID SURFACE	CORIAN	LINEN		1/2" THICK
SS-3	SOLID SURFACE	CORIAN	BISQUE		BOWL
MB	MINI BLINDS	HUNTER DOUGLAS	LIGHTLINES ANTIQUE WHITE		1"
GT	GROUT	CUSTOM BUILDING PRODUCTS	#382 BONE		
FRP	FIBER REINFORCED PANEL	MARLITE (INDURO FRP)	D354 DESIGNER WHITE		-
CG	CORNER GUARD	IPC	EGGSHELL		4" HIGH

MISCELLANEOUS - EXTERIOR PRODUCTS					
SSMR	STANDING SEAM METAL ROOF	ENGLERT MANUF. SERIES 1300	MATCH: FED-STD #30140		2" TALL
GLZ	LAMINATED GLAZING	PPG MANUFACTURER - SOLAR BAN 70XL	SOLAR BRONZE		IMPACT RESIST.

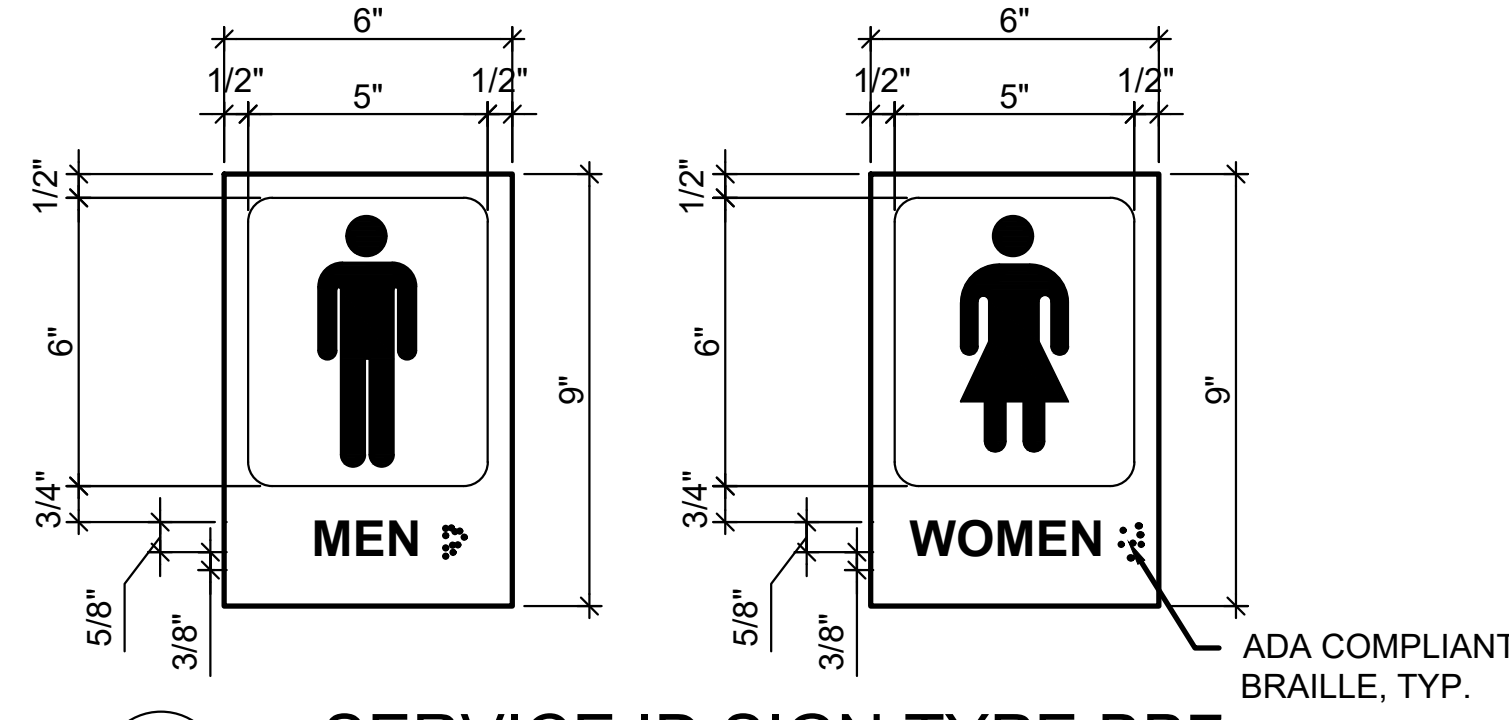
P-8	PAINT (BOLLARDS)	SHERWIN WILLIAMS		7040 SMOKEHOUSE	GLOSS
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GENERAL NOTES:

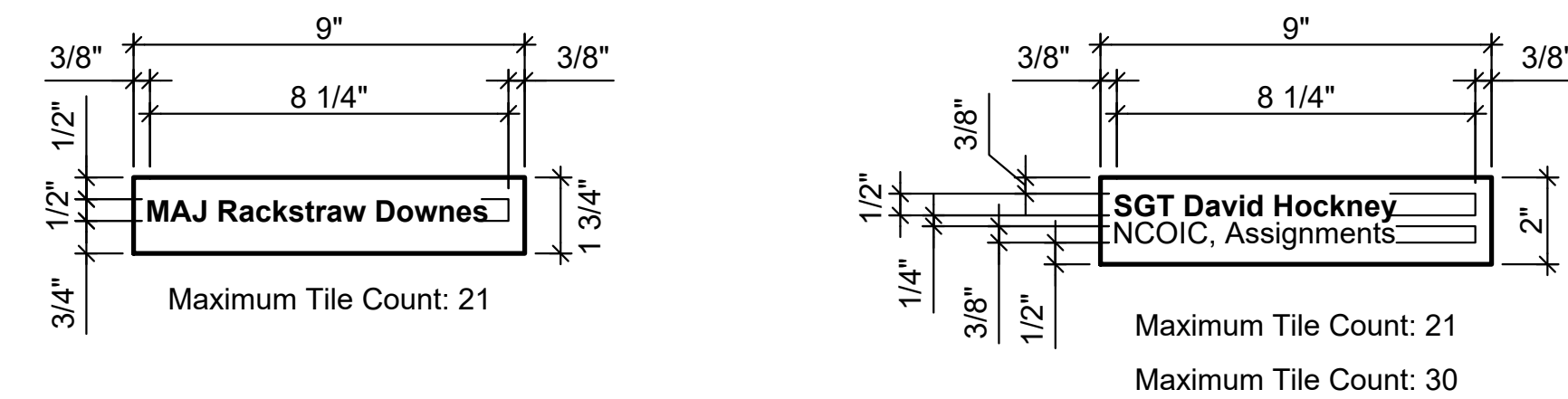
- ALL MANUFACTURERS LISTED ARE FOR INFORMATION ONLY.
- FIBER REINFORCED PANEL TO BE INSTALLED IN FRONT OF CABINET BOTTOM OF RAISED COUNTERTOP IN KITCHEN AREA AND BEHIND JANITOR CLOSET FLOOR SINK, SEE INTERIOR ELEVATIONS AND FLOOR PLANS.
- COORDINATE WITH USER ALL SIGNAGE ROOM AND OR OCCUPANT TITLES.
- ALL WINDOWS TO RECEIVE MINI BLINDS, INSTALL PER MANUFACTURER INSTRUCTIONS.
- INSTALL PORCELAIN TILE COVE BASE IN ALL RESTROOMS/SHOWER AREAS.
- INSTALL BASE ON ALL CABINET BOTTOMS.
- ALL INTERIOR PAINTS, COATING, SEALANTS AND ADHESIVES SHALL BE LOW VOC AND SHALL COMPLY WITH SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) RULE #1168 LIMITS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) LIMITS.
- CONTRACTOR SHALL SUBMIT PRODUCT INFORMATION INCLUDING VOC INFORMATION, RECYCLED CONTENT AND REGIONAL MATERIAL USED IN ALL INTERIOR PRODUCTS.
- CONTRACTOR SHALL SUBMIT ALL INTERIOR FINISH PRODUCT DATA FOR FINAL APPROVAL TO OWNER.
- 36" WIDE X 24" DEEP X 78" TALL LOCKER SHALL HAVE HANGING ROD, AND LOCKABLE TYPE. MOUNT LOCKER ON 6" CONCRETE CURB. SECURE LOCKER TO WALL.



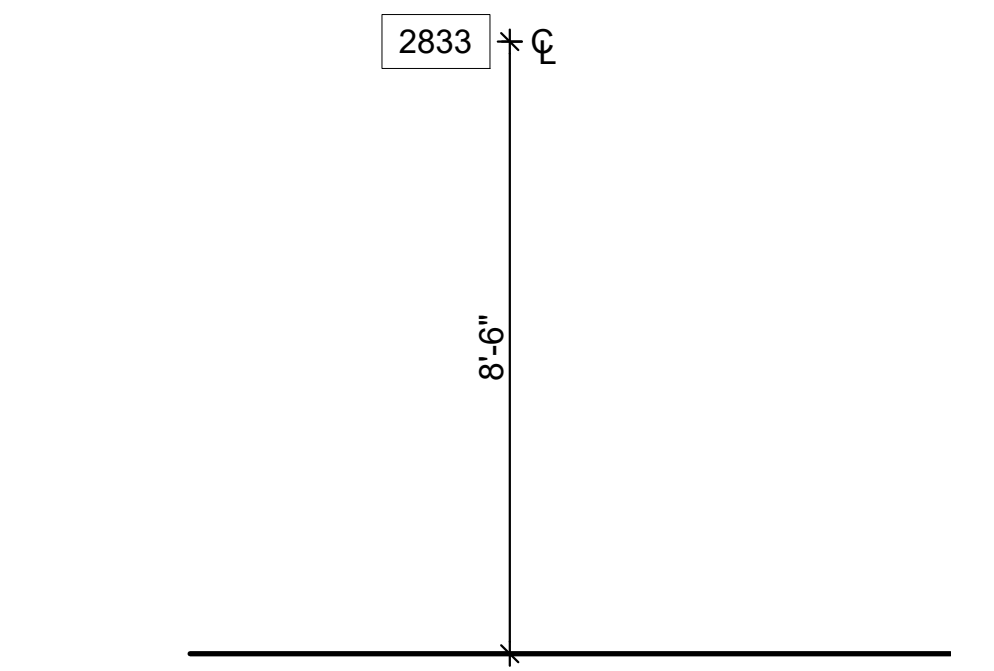
1 TYPE BB1/BB2/BB3/DD1
SCALE: 3/8" = 1'-0"



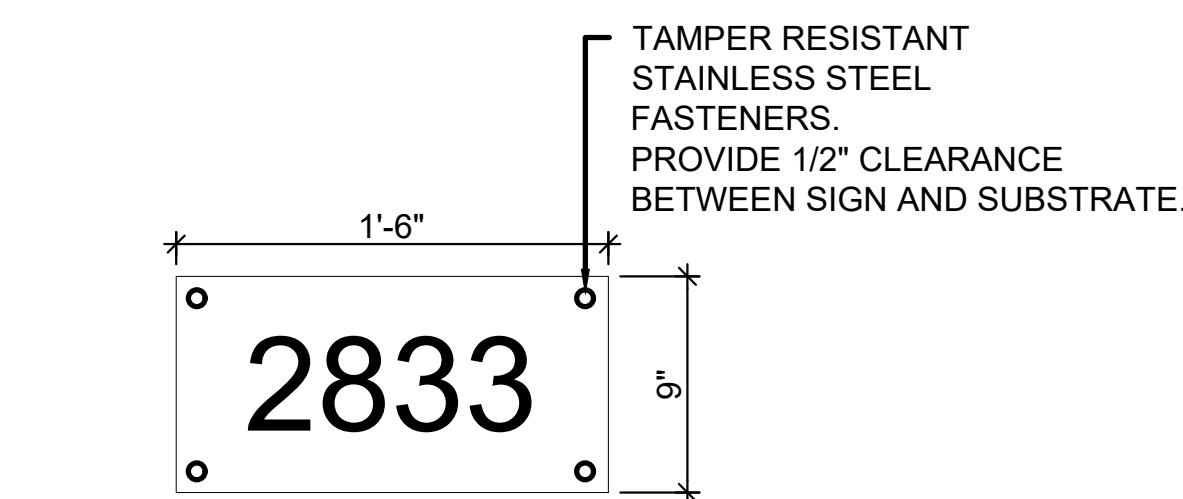
4 SERVICE ID SIGN TYPE BB7
SCALE: 3" = 1'-0"



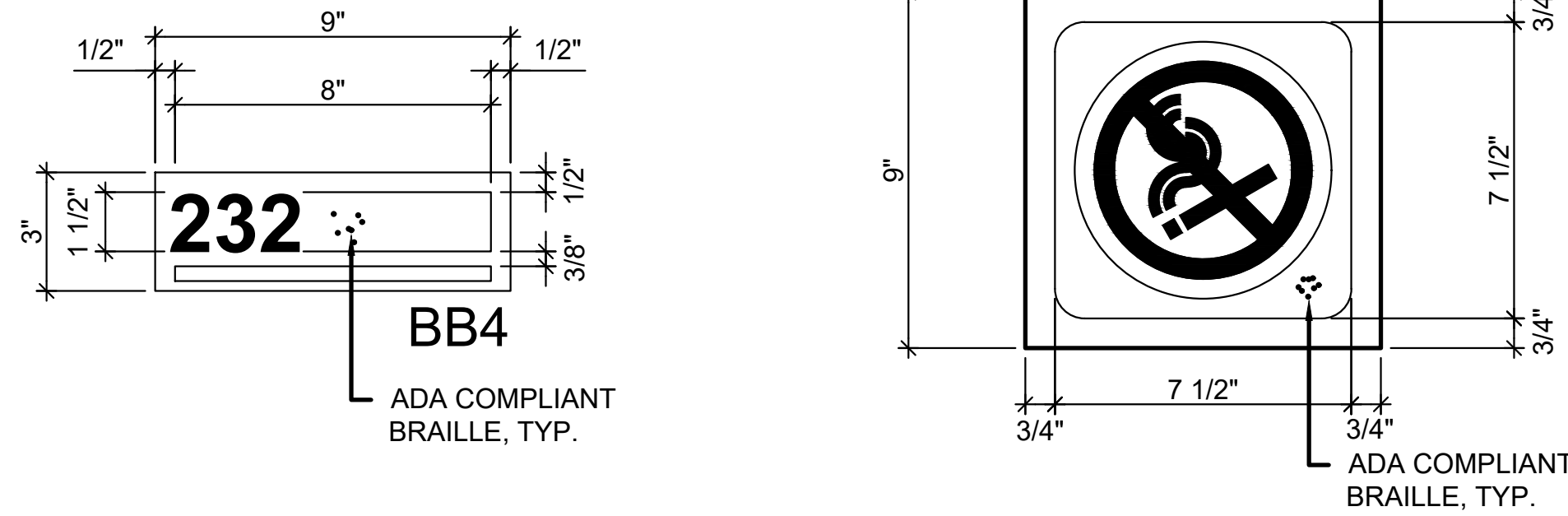
5 TYPE BB6
SCALE: 3" = 1'-0"



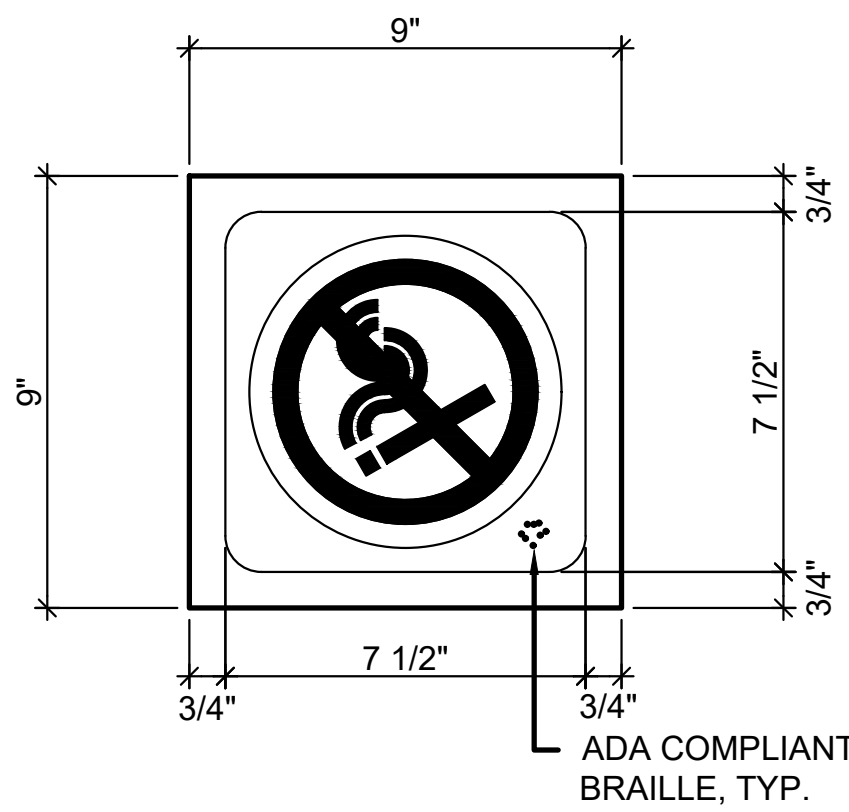
2 TYPE BN
SCALE: 3/8" = 1'-0"



3 TYPE BN
SCALE: 1 1/2" = 1'-0"



6 OFFICE ID TYPE BB4
SCALE: 3" = 1'-0"



7 REGULATION SIGN TYPE DD1
SCALE: 3" = 1'-0"

NO.	DATE	APPR.	REVISION/ACTION TAKEN

DRAWING ABBREVIATIONS

A	ARCHITECT / ENGINEER	FXT	FIXED TEMPERATURE HEAT DETECTOR
A/E	ARCHITECT / ENGINEER	G	GOVERNMENT FURNISHED / GOVERNMENT INSTALLED
ABA	ARCHITECTURAL BARRIERS ACT	GFGI	GOVERNMENT FURNISHED / GOVERNMENT INSTALLED
ABS	ACTIVATE BED SHAKER	GPM	GALLONS PER MINUTE
ADA	AMERICANS WITH DISABILITIES ACT	I	INTERNATIONAL BUILDING CODE
ADH	ACTIVATE DOOR HOLDER RELEASE	IBC	INTERNATIONAL BUILDING CODE
ADR	ACTIVATE DOOR LOCK RELEASE	ID	IN DUCT DETECTOR
AFF	ABOVE FINISHED FLOOR	ION	IONIZATION SMOKE DETECTOR
AFG	ABOVE FINISHED GRADE	L	LINEAR FEET
AFS	ABOVE FINISHED SLAB	LF	LINEAR FEET
AHL	ACTIVATE ELEVATOR HAT LIGHT	LOC	LOCAL OPERATOR CONSOLE
AHU	AIR HANDLING UNIT	M	MONITOR ALARM CONTACTS
ALT	ALTERNATE	MAC	MONITOR HEAT TRACING POWER
ANN	REMOTE ANNUNCIATOR	MATL	MATERIAL
APA	ACTIVATE PA OVER RIDE	MAX	MAXIMUM
APPRO	APPROXIMATE	MHP	MONITOR HEAT TRACING POWER
X		MHS	MONITOR HOOD SUPPRESSION SYSTEM
AR	AS REQUIRED	MIN	MINIMUM, MINUTE
ARP	ACTIVATE ELEVATOR PRIMARY RECALL	MISC	MISCELLANEOUS
ARS	ACTIVATE ELEVATOR SECONDARY RECALL	MKB	MONITOR KNOX BOX
ASC	ABOVE SUSPENDED CEILING	MLP	MONITOR SPRINKLER LOW PRESSURE
ASD	ACTIVATE SMOKE DAMPER	MNCU	MASS NOTIFICATION CONTROL UNIT
ATC	ACOUSTICAL TILE CEILING	MOD	MODIFY
AVG	AVERAGE	MPS	MONITOR SPRINKLER ALARM PRESSURE SWITCH
B		MPV	MONITOR POST INDICATOR VALVE
BFF	BELOW FINISHED FLOOR	MSP	MONITOR SHUNT TRIP POWER
BLDG	BUILDING	MTC	MONITOR THERMOCOUPLE
BOS	BOTTOM OF STEEL	MTS	MONITOR TAMPERS SWITCH
BSMT	BASEMENT	MWF	MONITOR WATER FLOW SWITCH
C		N	NORTH
CFCI	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED	NA	NOT APPLICABLE
CL	CENTER LINE	NAC	NOTIFICATION APPLIANCE CIRCUIT
CLG	CEILING	NC	NORMALLY CLOSED
CMSA	CONTROL MODE SPECIFIC APPLICATION	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CMU	CONCRETE MASONRY UNIT	NIC	NOT IN CONTRACT
D		NO	NUMBER, NORMALLY OPEN
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER	NTS	NOT TO SCALE
DEMO	DEMOLISH	O	
DEPT	DEPARTMENT	OCC	OCCUPANT
DIA	DIAMETER	P	
DOC	DOCUMENT	PH	PHOTOELECTRIC SMOKE DETECTOR
E		R	
EA	EACH	RAT	RADIO ALARM TRANSMITTER
EJ	EXPANSION JOINT	S	
ELEV	ELEVATOR	SB	SMOKE DETECTOR WITH SOUNDER BASE
EQ	EQUAL	SF	SQUARE FEET
ESFR	EARLY SUPPRESSION FAST RESPONSE	SLC	SIGNALING LINE CIRCUIT
EXP	EXPOSED	SNAC	NOTIFICATION APPLIANCE POWER SUPPLY
F		SS	SINGLE STATION SMOKE DETECTOR
FACU	FIRE ALARM CONTROL UNIT	W	
FD	FIRE DEPARTMENT	WP	WEATHER PROOF
FDC	FIRE DEPARTMENT CONNECTION	X	
FEB	FIRE EXTINGUISHER BRACKET	XP	EXPLOSION PROOF
FEC	FIRE EXTINGUISHER CABINET		

DRAWING SYMBOLS

NUMBERING SYSTEM:

ANNOTATION CALLOUTS/DRAWING SYMBOLS

LEGEND

FIRE ALARM LEGEND

- (AI) ADDRESSABLE INPUT MODULE
 - (AO) ADDRESSABLE OUTPUT MODULE
 - (S) SMOKE DETECTOR
 - MANUAL PULL STATION
 - HORN STROBE - WALL
 - HORN - WALL
 - STROBE - WALL
 - PANEL - SEE SUBSCRIPT FOR TYPE
- PANEL AND DEVICE SUBSCRIPTS**
- APA - OVERRIDE PA SYSTEM
 - FACU - FIRE ALARM CONTROL UNIT
 - MHS - MONITOR HOOD SUPPRESSION DISCHARGE
 - MKB - MONITOR KNOX BOX
 - MLP - MONITOR LOW AIR PRESSURE
 - MPS - MONITOR DRY VALVE PRESSURE SWITCH
 - MTS - MONITOR TAMPERS SWITCH
 - NAC - SUPPLEMENTARY BOOSTER POWER PANEL
 - PH - PHOTOELECTRIC
 - RTA - RADIO TRANSMITTER

FIRE SPRINKLER LEGEND

- xxx HAZARD CLASSIFICATION
- PENDENT SPRINKLER - CONCEALED
- ⊙ PENDENT SPRINKLER - ON DROP
- UPRIGHT SPRINKLER
- ⊙ UPRIGHT SPRINKLER - ON SPRIG
- ▷ SIDEWALL SPRINKLER

SEE SHEET F-000 FOR GENERAL NOTES RELATED TO FIRE SPRINKLER

GENERAL NOTES

GENERAL NOTES (FIRE ALARM)

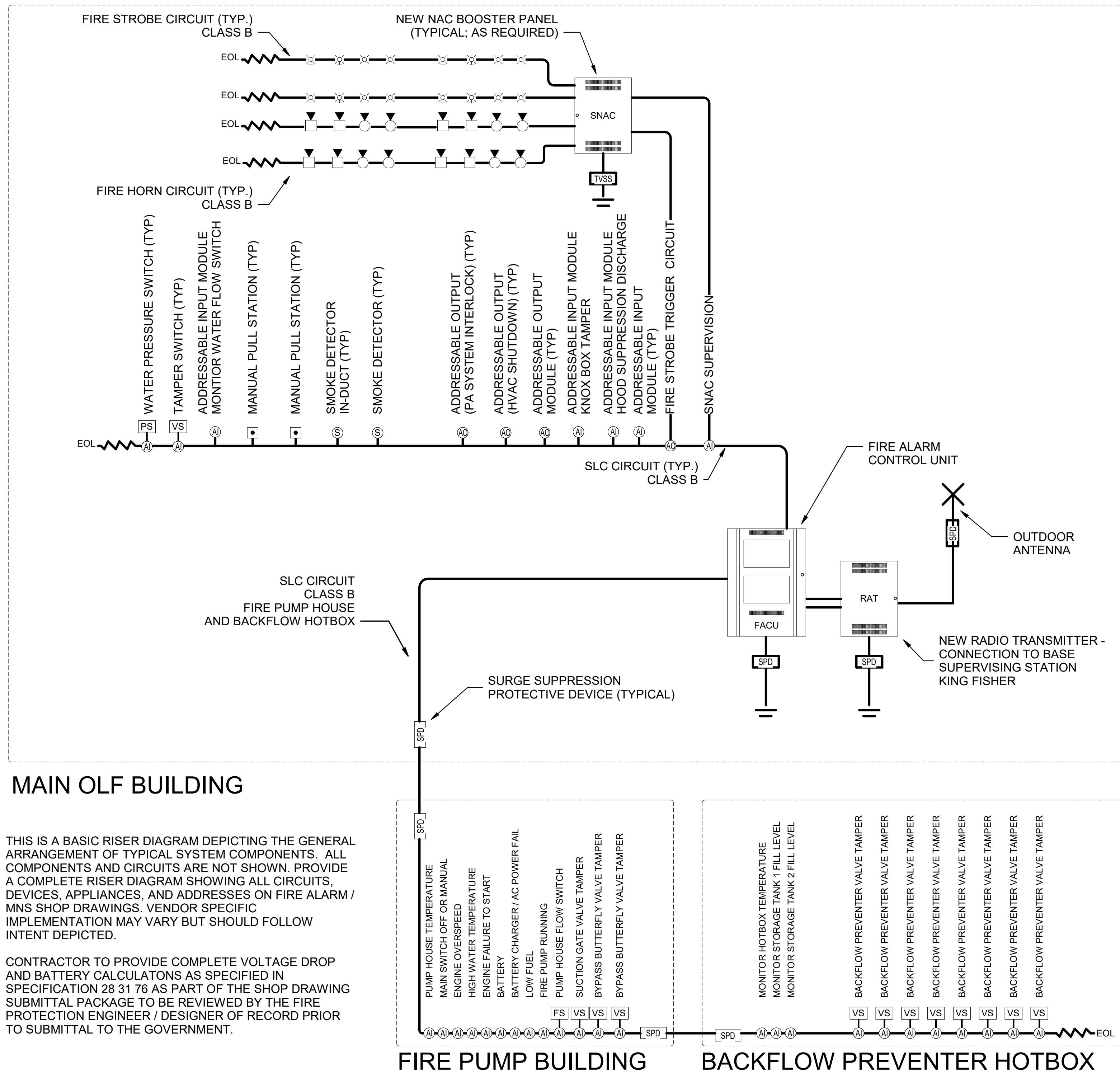
- THIS WORK INCLUDES COMPLETION OF DESIGN AND PROVIDING A COMPLETE FIRE ALARM SYSTEM IN ACCORDANCE WITH (BUT NOT LIMITED TO) NFPA 70, NFPA 72, AND UFC 3-600-01 FOR THE ENTIRE FACILITY.
- PROVIDE A KING FISHER RADIO ALARM TRANSMITTER, ANTENNAE, AND ALL APPURTENANCES TO COMMUNICATE WITH WHITING FIELD.
- PROVIDE DEVICES AND CIRCUITS EXTENDED FROM THE MAIN FACILITY TO THE PREPACKAGED FIRE PUMP HOUSE AND WATER STORAGE TANKS AND MONITOR SIGNALS INDICATED.
- PROVIDE WIRING, RACEWAYS, PULL BOXES, TERMINAL CABINETS, OUTLET AND MOUNTING BOXES, CONTROL EQUIPMENT, ALARM, AND SUPERVISORY SIGNAL INITIATING DEVICES, ALARM NOTIFICATION APPLIANCES, AND OTHER ACCESSORIES AND MISCELLANEOUS ITEMS REQUIRED FOR A COMPLETE OPERATING SYSTEM EVEN THOUGH EACH ITEM IS NOT SPECIFICALLY MENTIONED OR DESCRIBED. PROVIDE SYSTEM COMPLETE AND READY FOR OPERATION.
- THE SYSTEM LAYOUT ON THE DRAWINGS SHOWS THE INTENT OF COVERAGE AND ARE SHOWN IN SUGGESTED LOCATIONS. SUBMIT PLAN VIEW DRAWING SHOWING DEVICE LOCATIONS, TERMINAL CABINET LOCATIONS, JUNCTION BOXES, OTHER RELATED EQUIPMENT, CONDUIT ROUTING, WIRE COUNTS, CIRCUIT IDENTIFICATION IN EACH CONDUIT, AND CIRCUIT LAYOUTS FOR ALL FLOORS. DRAWINGS SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 170. FINAL QUANTITY, SYSTEM LAYOUT, AND COORDINATION ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- IN-DUCT SMOKE DETECTOR LOCATIONS SHOWN ON PLANS. COORDINATE WITH MECHANICAL FOR ACTUAL FINAL DUCT SMOKE DETECTOR LOCATIONS. SEE INPUT/OUTPUT MATRIX FOR EXPECTED OPERATION OF DUCT DETECTORS.

GENERAL NOTES (FIRE SPRINKLER)

- PROVIDE AUTOMATIC SPRINKLER SYSTEM THROUGHOUT IN ACCORDANCE WITH UFC 3-600-01.
- PROVIDE AUTOMATIC SPRINKLER SYSTEM THROUGHOUT IN ACCORDANCE WITH NFPA 13.
- PROVIDE WET PIPE SPRINKLER PROTECTION THROUGHOUT THE FACILITY INCLUDING ALL INTERIOR SPACES AND COMBUSTIBLE CONCEALED SPACES IN ACCORDANCE WITH NFPA 13.
- DESIGN ANY PORTIONS OF THE SPRINKLER SYSTEM THAT ARE NOT INDICATED ON THE DRAWINGS INCLUDING LOCATING SPRINKLERS, PIPING AND EQUIPMENT, AND SIZE PIPING AND EQUIPMENT WHEN THIS INFORMATION IS NOT INDICATED ON THE DRAWINGS OR IS NOT SPECIFIED HEREIN.
- FURNISH PIPING OFFSETS, FITTINGS, AND ANY OTHER ACCESSORIES AS REQUIRED TO PROVIDE A COMPLETE INSTALLATION AND TO ELIMINATE INTERFERENCE WITH OTHER CONSTRUCTION.
- INSTALL SPRINKLER SYSTEM OVER AND UNDER DUCTS, PIPING AND PLATFORMS WHEN SUCH EQUIPMENT CAN NEGATIVELY AFFECT OR DISRUPT THE SPRINKLER DISCHARGE PATTERN AND COVERAGE.
- PIPE SIZES WHICH ARE NOT INDICATED ON DRAWINGS SHALL BE DETERMINED BY HYDRAULIC CALCULATION.
- CENTER SPRINKLERS IN CEILING TILES.

100% RTA SUBMITTAL

PROJECT NO.	DESIGNED BY	DRAWN BY	CHK'D BY	PROJ. MGR.	DATE	NO.	DATE	APPR.	REVISION/ACTION TAKEN
25898.03	REP	RSB	REP	-	JANUARY 2018				



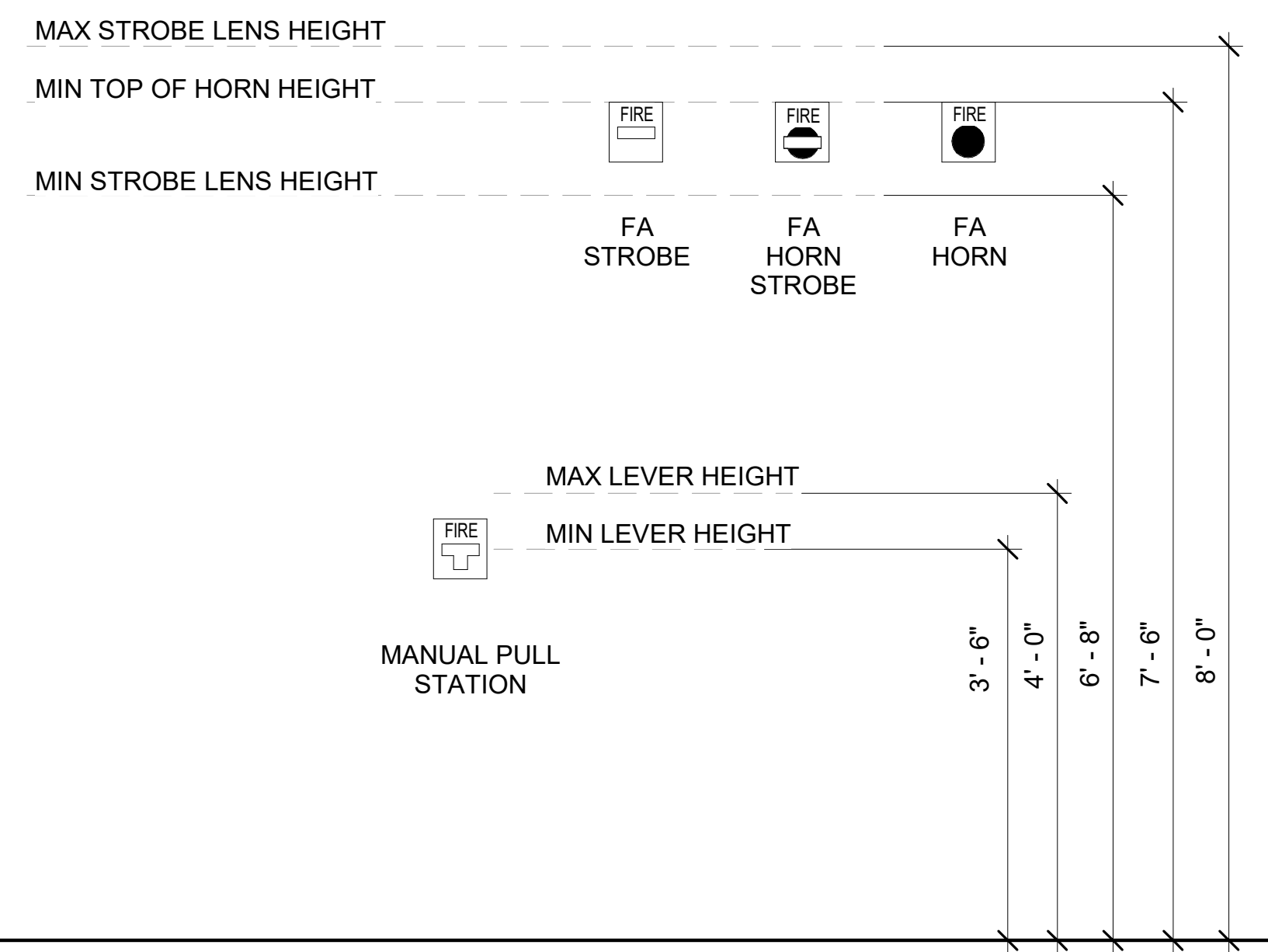
THIS IS A BASIC RISER DIAGRAM DEPICTING THE GENERAL ARRANGEMENT OF TYPICAL SYSTEM COMPONENTS. ALL COMPONENTS AND CIRCUITS ARE NOT SHOWN. PROVIDE A COMPLETE RISER DIAGRAM SHOWING ALL CIRCUITS, DEVICES, APPLIANCES, AND ADDRESSES ON FIRE ALARM / MNS SHOP DRAWINGS. VENDOR SPECIFIC IMPLEMENTATION MAY VARY BUT SHOULD FOLLOW INTENT DEPICTED.

CONTRACTOR TO PROVIDE COMPLETE VOLTAGE DROP AND BATTERY CALCULATIONS AS SPECIFIED IN SPECIFICATION 28 31 76 AS PART OF THE SHOP DRAWING SUBMITTAL PACKAGE TO BE REVIEWED BY THE FIRE PROTECTION ENGINEER / DESIGNER OF RECORD PRIOR TO SUBMITTAL TO THE GOVERNMENT.

1 FIRE ALARM / MNS RISER DIAGRAM
FA-501 NTS

FUNCTION	CONTROL UNIT SIGNALS			NOTIFICATION	FIRE SAFETY FUNCTIONS			CENTRAL STATION NOTIFICATION			
	GENERAL ALARM	GENERAL TROUBLE	GENERAL SUPERVISORY	GENERAL EVACUATION MESSAGE	CLEAR STROBES	HVAC FAN SHUTDOWN	OPEN DOOR LOCKS	RELEASE DOORS	XMIT ALARM	XMIT SUPERVISORY	XMIT TROUBLE
INITIATING DEVICE											
MANUAL PULL STATION	■										
SMOKE DETECTOR - GENERAL											
WATER FLOW SWITCH - FIRE PUMP HOUSE											
WATER FLOW SWITCH - GENERAL											
SUPERVISING DEVICE											
FIRE PUMP - DIESEL - OFF AUTOMATIC											
FIRE PUMP - DIESEL - PUMP RUNNING											
FIRE PUMP - DIESEL - TROUBLE											
HOOD SUPPRESSION SYSTEM DISCHARGE											
HOT BOX TEMPERATURE LOW											
KNOX BOX OPEN											
PUMP HOUSE TEMPERATURE LOW											
VALVE TAMPER SWITCH											
WATER STORAGE - LOW WATER LEVEL											
TROUBLE SIGNALS											
GROUND FAULT											
NOTIFICATION APPLIANCE CIRCUIT SHORT											
OPEN CIRCUIT											

1. MOUNT LOC WITH HOUSING CENTERED AT 38".
2. MOUNT MANUAL PULL STATION SO THAT OPERABLE LEVER IS BETWEEN 42" AND 48" ABOVE FINISHED FLOOR.
3. MOUNT STROBES SO THAT LENS IS NO MORE THAN 96" AFF AND NO LESS THAN 80" AFF.
4. MOUNT HORNS SO THAT TOP OF APPLIANCE IS A MINIMUM OF 90" AFF. ENSURE THAT HORN IS AT LEAST 6" BELOW CEILING.
5. MOUNT HORN STROBES IN ACCORDANCE WITH STROBE MOUNTING REQUIREMENTS.



2 FIRE ALARM MOUNTING ELEVATIONS
FA-501 NTS

100% RTA SUBMITTAL

FIRE ALARM DETAILS

FA-501

NO.	DATE	APPR.	REVISION/ACTION	TAKEN

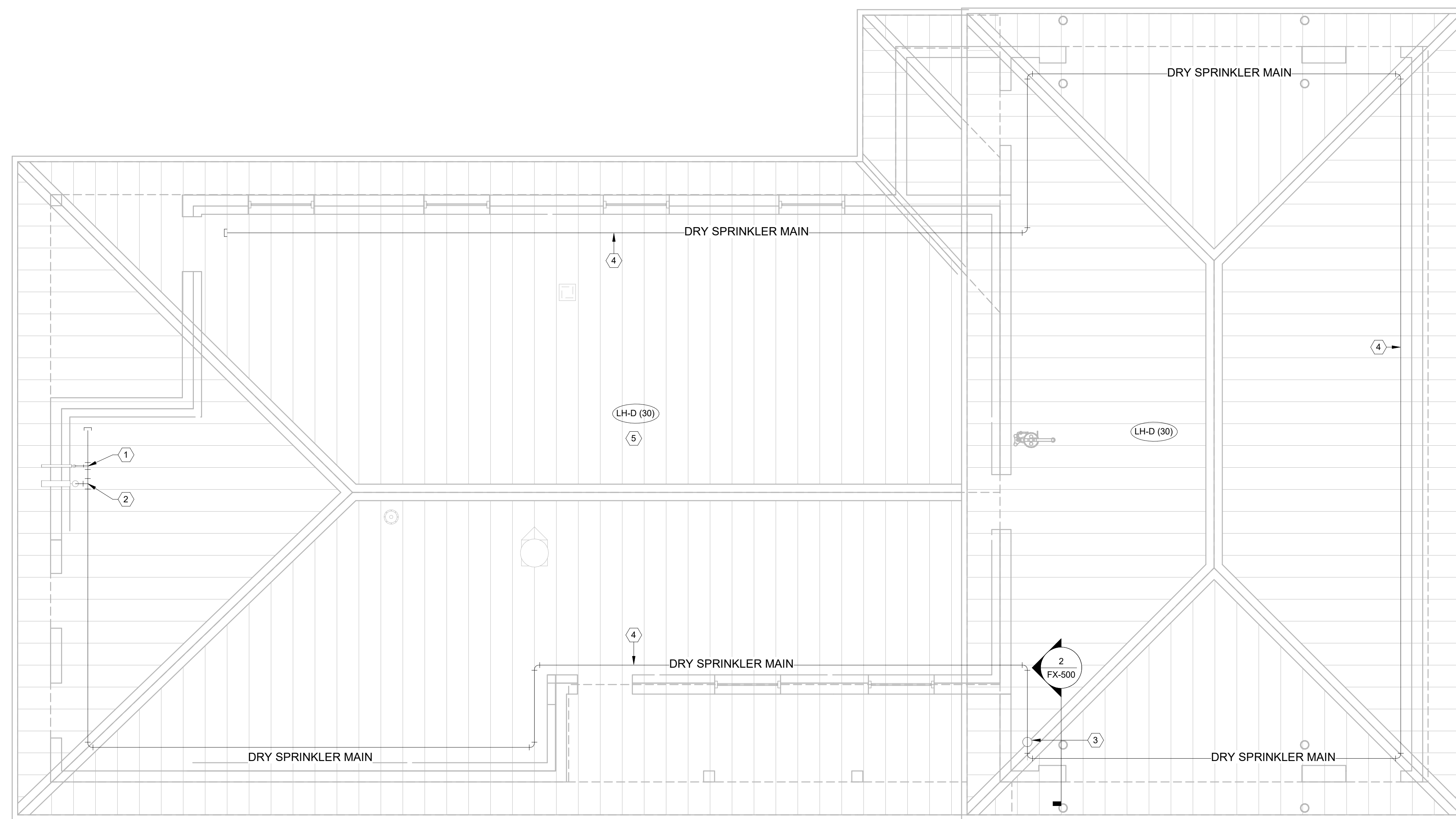
PROJECT NO.: 25898.03
DESIGNED BY: REP
DRAWN BY: RSB
CHK'D BY: REP
PROD. MGR: -
DATE: JANUARY 2018
NOT RELEASED FOR CONSTRUCTION BY DATE



FireLogix Engineering, Ltd.
 215 North Broadway Street
 Lebanon, Ohio 45036
 (513) 206-9651
 www.firelogix.com

PROJECT NO.	NO.	DATE	APPR.	REVISION/ACTION TAKEN
25898.03				
DESIGNED BY: REP				
DRAWN BY: RSB				
CHK'D BY: REP				
PROJ. MGR: -				
DATE: JANUARY 2018				

100% RTA SUBMITTAL	ABOVE CEILING SPRINKLER	FX-201
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KEY NOTES ◻

- 1 SPRINKLER INSPECTOR'S TEST LOCATION. ROUTE TO EXTERIOR WITH SPLASHBLOCK.
- 2 FIRE DEPARTMENT CONNECTION WITH CHECK VALVE.
- 3 WET SPRINKLER RISER SERVING OLF FACILITY OCCUPIED AREAS AND COMBUSTIBLE CONCEALED SPACES.
- 4 WET SPRINKLER MAIN ROUTED ABOVE CEILING.
- 5 PROVIDE SPRINKLERS IN LIGHT HAZARD COMBUSTIBLE CONCEALED SPACE.

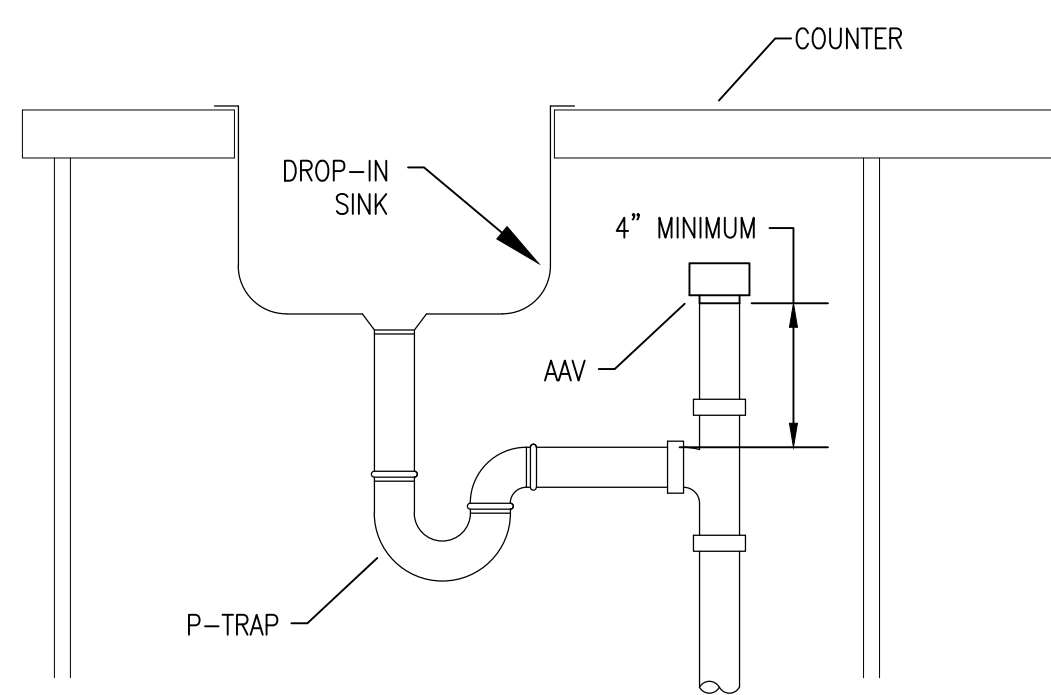
PLAN NORTH

1 FIRE SPRINKLER PLAN
 1/4" = 1'-0"

 SCALE: 1/4" = 1'-0"

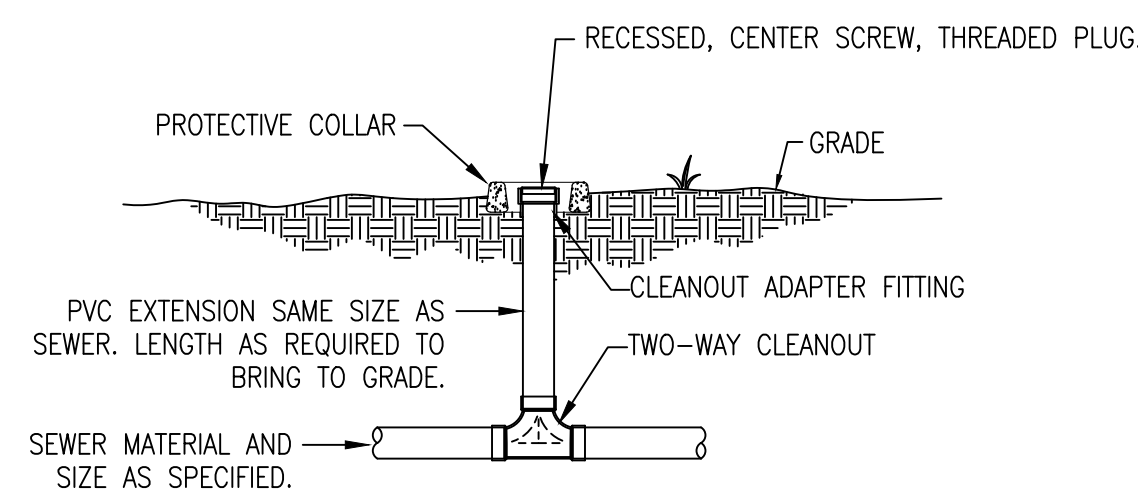
PLUMBING LEGEND

- SANITARY WASTE PIPING, SIZED AS SHOWN.
- - - - - SANITARY WASTE VENT PIPING, SIZED AS SHOWN.
- COLD WATER PIPING, SIZED AS SHOWN.
- HOT WATER PIPING, SIZED AS SHOWN.
- - - - - T - - - - - TRAP PRIMER WATER PIPING
- P-TRAP
- BALL VALVE FOR SHUT-OFF SERVICE.
- CHECK VALVE.
- PIPING TURNED UP
- PIPING TURNED DOWN
- PIPING TURNED DOWN
- 2-WAY GCO TWO WAY GROUND CLEANOUT
- FD FLOOR DRAIN WITH TRAP PRIMER, SIZED AS SHOWN
- HD HUB DRAIN WITH TRAP PRIMER, SIZED AS SHOWN
- VTR VENT THROUGH ROOF, SIZED AS SHOWN.
- P-# PLUMBING FIXTURE NUMBER. SEE SCHEDULE ON THIS SHEET.
- AAV AIR ADMITTANCE VALVE
- TPV TRAP PRIMER VALVE
- WHA WATER HAMMER ARRESTOR
- FCO FLOOR CLEANOUT
- EWH ELECTRIC WATER HEATER
- WH WALL HYDRANT
- VS VENT STACK



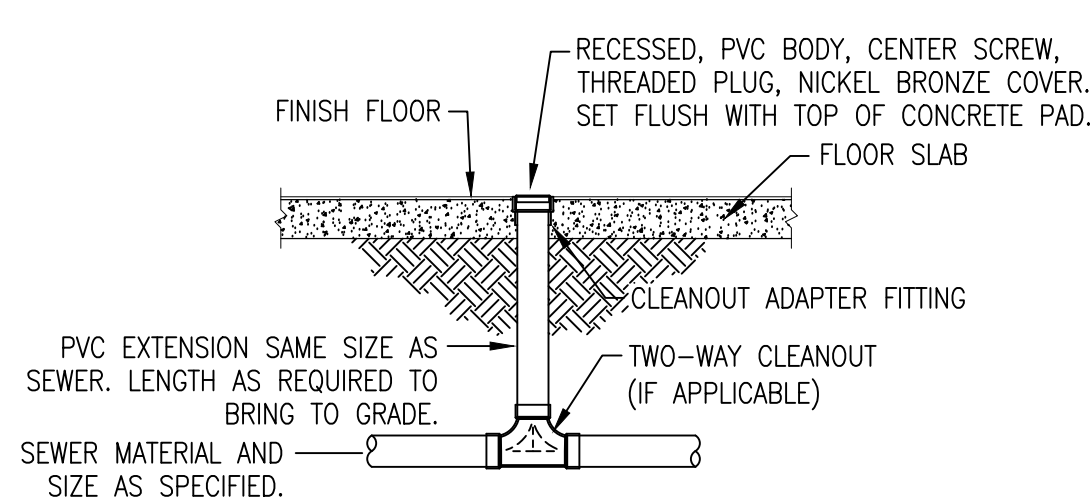
AIR ADMITTANCE VALVE DETAIL

SCHEMATIC



GROUND LEVEL CLEANOUT DETAIL

NOT TO SCALE



FINISH FLOOR CLEANOUT DETAIL

NOT TO SCALE

PLUMBING FIXTURE CONNECTION SCHEDULE

MARK #	FIXTURE TYPE	MANUFAC. & MODEL	CONNECTIONS			REMARKS ①
			WASTE	CW	HW	
P-1	TANK TYPE WATER CLOSET (HC)	KOHLER K-3814-0	3"	1/2"	-	VIT. CHINA, WHITE, TWO PIECE, ELONGATED BOWL, FLOOR MOUNTED WITH OPEN FRONT SEAT NO LID. LOW CONSUMPTION 1.28 GALLONS PER FLUSH. ADA HEIGHT.
P-2A	FLUSH VALVE URINAL (HC)	KOHLER K-5452-ER-0	2"	3/4"	-	VIT. CHINA, WHITE, WALL MOUNT WITH WALL HANGERS, TOP SPUD, SLOAN SOLIS SOLAR POWERED LOW CONSUMPTION FLUSH VALVE, 0.125 GALLONS PER FLUSH. (HC)
P-3	COUNTER-MOUNT LAVATORY	KOHLER K-2905	1-1/2" X 1-1/4"	1/2"	1/2"	VIT. CHINA, WHITE, COUNTER MOUNT, DELTA B510LF SINGLE LEVER FAUCET, OFFSET P-TRAP & GRID DRAIN.
P-3A	WALL MOUNTED LAVATORY	KOHLER K-2084	1-1/2" X 1-1/4"	1/2"	1/2"	VIT. CHINA, WHITE, WALL MOUNT, MOEN 8279 MANUAL FAUCET WITH WRISTBLADE HANDLES AND GOOSENECK FAUCET, OFFSET P-TRAP & POP UP DRAIN. (HC)
P-4	DOUBLE BOWL SINK	JUST DL-2233-A-GR	1-1/2"	1/2"	1/2"	STAINLESS STEEL, 18 GAUGE, 7-1/2" DEEP DOUBLE COMPARTMENT SINK WITH JUST 1174-R GOOSENECK SPOUT FAUCET, AND GRID STRAINER. PROVIDE WITH INSINKERATOR BADGER 5 DISPOSAL WITH DISHWASHER DRAIN CONNECTION.
P-5	DRINKING FOUNTAIN (HC)	OASIS PBACSL	1-1/4"	1/2"	-	SELF CONTAINED, HI-LO, 8.0 GPH CAPACITY (90°F AMB. AIR), 4.4 FULL LOAD AMPS, 500 RATED WATT USAGE, POWDERCOATED FINISH.
P-6	JANITOR'S SERVICE SINK	ZURN Z-1996-24	3"	1/2"	1/2"	MOP SERVICE BASIN WITH MOLDED HIGH DENSITY COMPOSITE BASIN, PVC DRAIN BODY AND STAINLESS STEEL DOME STRAINER/LINT BASKET. SUPPLY WITH ZURN Z-1996-SF WALL MOUNT FAUCET WITH INTEGRAL VACUUM BREAKER CHROME TRIM
P-7	SHOWER UNIT	AQUATIC 1363CM	2"	1/2"	1/2"	36"X36"X75" ONE PIECE GELCOAT SHOWER STALL, SYMMONS BP-56-1 SHOWER SYSTEM WITH 1.5 GPM SHOWER HEAD AND PRESSURE BALANCING MIXING VALVE, INTEGRAL SERVICE STOPS.
P-7A	SHOWER UNIT (HC)	AQUATIC 1363BFC2P	2"	1/2"	1/2"	36"X36"X75" ONE PIECE GELCOAT SHOWER STALL WITH FOLDING SEAT, GRAB BARS AND PRESSURE BALANCING MIXING VALVE WITH HANDHELD SHOWER ASSEMBLY.
P-8	OIL SEPARATOR	JOSAM 60613-EST	4"	-	-	EPOXY COATED STEEL INTERCEPTOR, INTEGRAL TRAP LEG, SEDIMENT BUCKET, FLOW CONTROL FITTING, SECURED HEAVY DUTY NON-SKID COVER AND EXTENSION RINGS. COVER SHALL BE FLUSH WITH GRADE. PROVIDE MINIMUM 150 GPM CAPACITY.
P-9	ICE-MAKER BOX	SIoux CHIEF 696-1010	-	3/8"	-	RECESSED ABS WALL BOX, 1/4" O.D. COPPER OUTLET, ANCHOR BOX TO WALL STRUCTURE. MOUNT TO MANUFACTURERS RECOMMENDATIONS.
P-10	EMERGENCY SHOWER/EYEWASH	GUARDIAN G1931-TMV	-	1-1/4"	-	COMBINATION EYE/FACE WASH AND SHOWER SAFETY STATION. ABS PLASTIC SHOWER HEAD, GALVANIZED STEEL PIPING WITH HIGH VISIBILITY COVERS AND ANSI COMPLIANT SIGNAGE. G3800 MIXING VALVE FOR ANSI TEPID WATER DELIVERY.
P-11	TRI-TEMP WALL HYDRANT	JOSAM 71650	-	3/4"	3/4"	CAST BRONZE NON FREEZE WALL HYDRANT WITH HINGED LATCHING COVER.
TD	TRENCH DRAIN	WATTS DEAD LEVEL P	4"	-	-	PRE SLOPED POLYPROPYLENE TRENCH DRAIN, 6" WIDE BY 48" LONG, BOTTOM OUTLET WITH SOLID END CAPS. PROVIDE WASTE PIPING WITH P-TRAP AND TRAP PRIMER CONNECTION.
FCO	FLOOR CLEANOUT	SIoux CHIEF 834	4"	-	-	CAST IRON BODY, SLEEVE AND HEAD ADAPTER, ADJUSTABLE HEIGHT, NICKEL BRONZE COVER.
GCO	GRADE CLEANOUT	SIoux CHIEF 851	4"	-	-	CAST IRON BODY AND COVER.
FD	FLOOR DRAIN	SIoux CHIEF 833-23NR	3"	-	-	CAST IRON BASE, ABS CLAMPING COLLAR, BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR, NICKEL BRONZE STRAINER AND TRAP PRIMER CONNECTION.
TP	TRAP PRIMER	SIoux CHIEF 695-01	-	1/2"	-	BRASS PLATED BODY, 1/2" WATER CONNECTION, DEBRIS SCREEN, PROVIDE WITH DISTRIBUTION UNIT IF SERVING MORE THAN ONE TRAP.

① SEE ARCHITECTURAL SHEETS FOR HANDICAPPED ACCESSIBILITY.

ELECTRIC WATER HEATER SCHEDULE

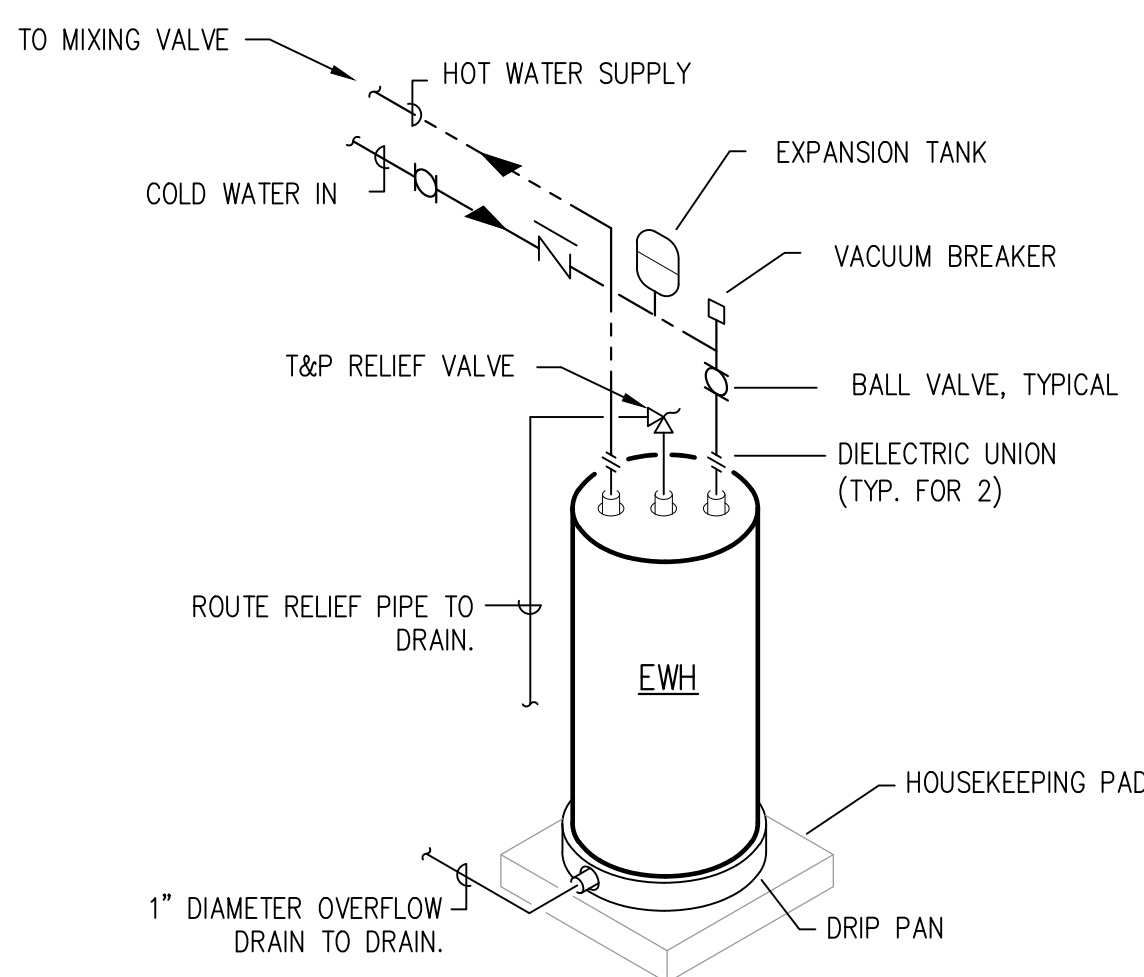
MARK	GAL.	MODEL	ELECTRICAL DATA				MIXING VALVE	EXPANSION TANK	REMARKS
			VOLTS	PHASE	HERTZ	INPUT			
EWH-1	65	RHEEM PROE65	240	1	60	4.5KW	LAWLER 61-10	WATTS PLT-5	①②

- ① EWH DESIGN BASED ON RHEEM ELECTRIC WATER HEATER OR APPROVED EQUAL.
- ② SET OUTLET TEMPERATURE TO FIXTURES AT 110°F MAXIMUM.

WATER HAMMER ARRESTOR SCHEDULE

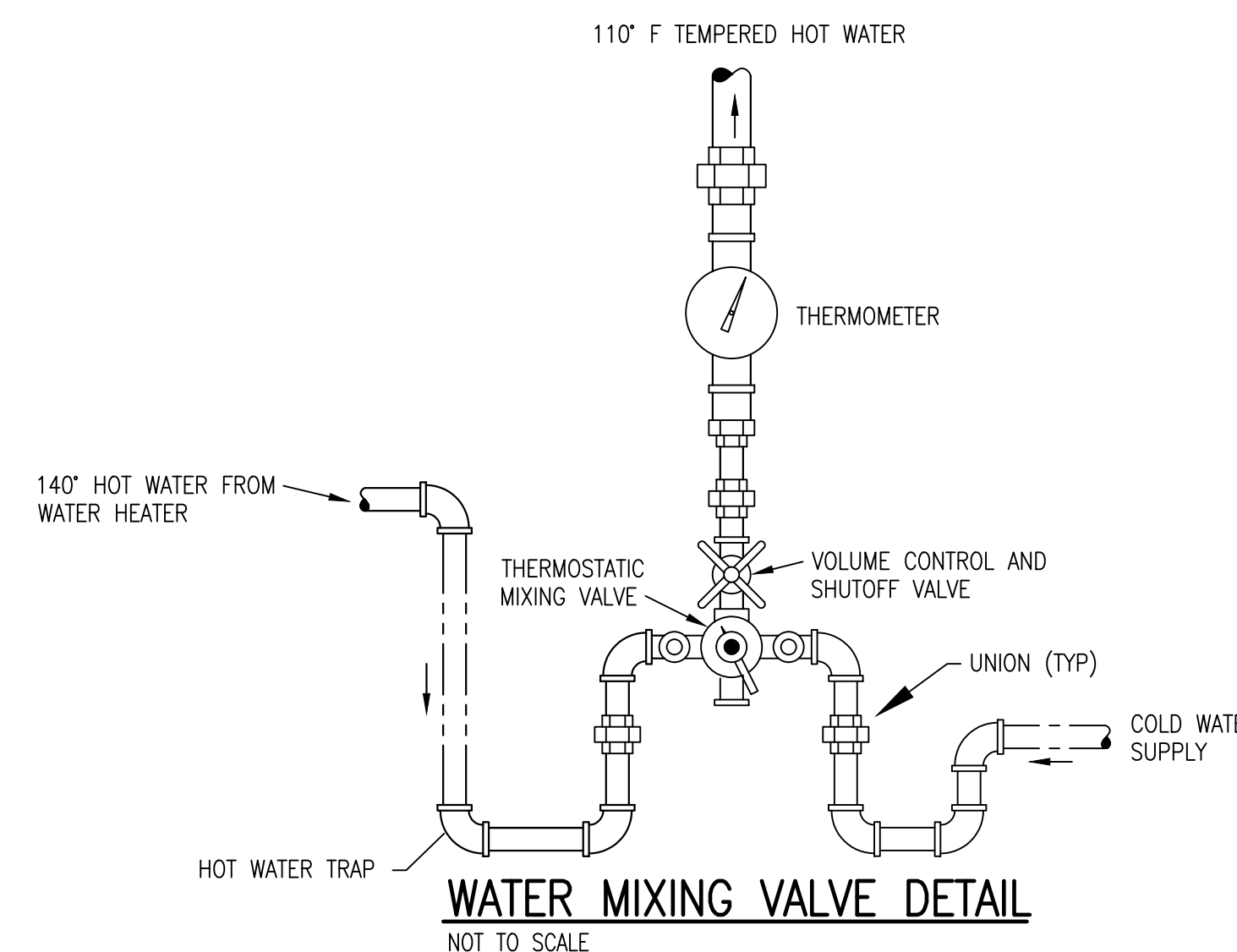
MARK	MODEL	SIZING DATA		REMARKS
		CONNECTION SIZE	WSFU VALUE	
WHA-A	SIoux CHIEF 652-A	1/2"	1-11	①②
WHA-B	SIoux CHIEF 652-B	3/4"	12-32	①②
WHA-C	SIoux CHIEF 652-C	1"	33-60	①②
WHA-D	SIoux CHIEF 652-D	1"	61-113	①②

- ① SIZES BASED ON PLUMBING AND DRAINAGE INSTITUTE STANDARD PDI-WH201.
- ② INSTALL PER MANUFACTURERS RECOMMENDATIONS.



WATER HEATER INSTALLATION DETAIL

NOT TO SCALE



WATER MIXING VALVE DETAIL

NOT TO SCALE

GENERAL PLUMBING NOTES

- ① THE CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PROCEEDS WITH A MINIMUM INTERFERENCE WITH OTHER TRADES.
- ② VERIFY EXACT PLUMBING FIXTURE ROUGH-IN AND FINAL HVAC EQUIPMENT REQUIREMENTS IN THE FIELD.
- ③ THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO PLUMBING FIXTURES. THIS RESPONSIBILITY INCLUDES, BUT IS NOT LIMITED TO, FURNISHING AND INSTALLING ALL TRAPS, DRAINS, AND SUPPLIES WITH STOPS. FURNISH AND INSTALL PLUMBING FIXTURES INDICATED OR SPECIFIED, COMPLETE WITH ALL EQUIPMENT, FITTINGS, TRIM AND ACCESSORIES INDICATED OR SPECIFIED. EXPOSED WATER PIPING TO FIXTURES SHALL BE CHROME-PLATED BRASS, IPS. ADJUST WATER FLOW THROUGH ALL FIXTURES TO PROVIDE PROPER FLUSHING ACTION WITH THE LEAST AMOUNT OF WATER.
- ④ COORDINATE ROUTING OF WATER SUPPLY, WASTE, AND VENT PIPING WITH OTHER TRADES.
- ⑤ THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES ALL REQUIRED OPENINGS AND EXCAVATIONS.
- ⑥ ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE THE ROOF. ALL VENTS SHALL BE A MINIMUM OF 10 FEET FROM ANY OUTSIDE AIR INTAKE.
- ⑦ ALL FLOOR DRAINS SHALL HAVE A 6" DEEP SEAL AND TRAPS WITH TRAP PRIMERS AS REQUIRED BY CODE. AN ACCESS PANEL MUST BE INSTALLED IF THE TRAP PRIMER FITTING IS LOCATED INSIDE A WALL OR ABOVE A HARD CEILING. COORDINATE OPENINGS WITH ARCHITECT. CONTRACTOR TO ENSURE THAT EACH TRAP PRIMER VALVE IS CLEANED AND FREE OF DEBRIS JUST PRIOR TO PROJECT COMPLETION. FLUSH STRAINER FLOOR DRAINS SHALL BE CAST BRONZE OR NICKEL BRONZE STRAINER WITH ADJUSTABLE COLLAR AND DOUBLE DRAINAGE FLANGE.
- ⑧ FLOOR CLEANOUTS SHALL BE ADJUSTABLE HEIGHT POLISHED BRONZE, NICKEL BRONZE WITH "CO" CAST IN THE FLOOR PLATE.
- ⑨ PROVIDE STOPS AND SHOCK ABSORBERS IN ACCORDANCE WITH PDI AND ASSE 1010. AN ACCESS PANEL MUST BE INSTALLED IF WATER HAMMER ARRESTER IS LOCATED INSIDE A WALL OR ABOVE A HARD CEILING. COORDINATE OPENINGS WITH ARCHITECT.
- ⑩ PROVIDE DIELECTRIC UNIONS AT ALL DISSIMILAR METAL CONNECTIONS.
- ⑪ INSULATE ALL WATER PIPING. DOMESTIC WATER PIPE NOT EXPOSED TO VIEW SHALL BE INSULATED WITH 1/2" THICK GLASS FIBER WITH FACTORY APPLIED UNIVERSAL JACKET. DENSITY SHALL BE 4 POUNDS PER CUBIC FOOT. FITTINGS SHALL BE INSULATED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. INSULATION VAPOR BARRIER SHALL BE LAPPED AND CEMENTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DOMESTIC WATER PIPE EXPOSED TO VIEW SHALL BE INSULATED SAME AS WHERE NOT EXPOSED TO VIEW, EXCEPT IT SHALL BE FINISHED WITH A SIZED UNIVERSAL JACKET SUITABLE FOR PAINTING. FITTING SHALL BE MADE OF "QUICKSET" CEMENT MOLDED TO FIT AND COVERED WITH 8 OZ. CANVAS AND FINISHED WITH WHITE VAPOR BARRIER CEMENT, AND HAVE PLASTIC MOLDED FITTING COVERS. INSULATE DOMESTIC WATER AND WASTE PIPING UNDER HANDICAP LAVATORIES AND SINKS USING "LAVGUARD2 E-Z SERIES" MOLDED VINYL PIPING COVERS. COVER ALL PIPING, FITTING, VALVES, AND TRAPS EXPOSED TO VIEW.
- ⑫ ROUTE ALL PIPING AS TO CAUSE MINIMAL INTERFERENCE FOR MAINTENANCE OF ALL EQUIPMENT. UNLESS OTHERWISE NOTED, ALL DOMESTIC WATER PIPING SHALL BE ROUTED WITHIN CEILING SPACE. PIPING BELOW SLAB SHALL BE WITHOUT JOINTS AND TEES. PIPING PASSING THRU WALLS EXTENDING TO BOTTOM OF STRUCTURE SHALL BE SLEEVED AND SEALED. PROVIDE SHUTOFF VALVE TO EACH SILLCOCK WITH VALVE IDENTIFICATION AS REQUIRED BY CODE.
- ⑬ BEFORE FINAL ACCEPTANCE OF THE WORK, TEST EACH SYSTEM AS IN SERVICE TO DEMONSTRATE COMPLIANCE WITH FLORIDA PLUMBING CODE AND LOCAL CODE REQUIREMENTS. ONCE TEST ARE IN COMPLIANCE WITH CONTRACT REQUIREMENTS DISINFECT WATER SYSTEM IN ACCORDANCE WITH AWWA C651. PROVIDE A COPY OF TEST RESULTS TO ARCHITECT.
- ⑭ CONTRACTOR TO VERIFY ALL LOCATIONS OF STRUCTURE PENETRATIONS WITH ARCHITECTURAL DRAWINGS.
- ⑮ CONTRACTOR SHALL VERIFY ALL WASTE AND WATER SUPPLY PIPE SIZES, LOCATIONS, INVERTS, AND DIRECTIONS OF FLOW WITH THE CIVIL DRAWINGS, SITE UTILITIES CONTRACTOR, AND EXISTING CONDITIONS PRIOR TO BEGINNING ANY NEW WORK. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT.
- ⑯ PIPE HANGERS AND SUPPORTS SHALL BE MSS SP-58 AND MSS SP-69, TYPE 1 OR 6, OF THE ADJUSTABLE TYPE, EXCEPT AS INDICATED OTHERWISE. ATTACHMENTS TO STEEL W OR S BEAMS SHALL BE WITH TYPE 21, 28, 29, OR 30 CLAMPS. ATTACHMENTS TO STEEL ANGLES AND CHANNELS (WITH WEB VERTICAL) SHALL BE WITH TYPE 20 CLAMP WITH A BEAM CLAMP CHANNEL ADAPTER. ATTACHMENTS TO STEEL CHANNEL (WITH WEB HORIZONTAL) SHALL BE WITH DRILLED HOLE ON CENTERLINE AND DOUBLE NUT AND WASHER. ATTACHMENTS TO CONCRETE SHALL BE WITH TYPE 18 INSERT OR A DRILLED HOLE WITH EXPANSION ANCHOR, HANGER RODS AND ATTACHMENTS SHALL BE FULL SIZE OF THE HANGER-THREADED DIAMETER. PROVIDE TYPE 40 INSULATION PROTECTION SHIELDS FOR INSULATED PIPING. PROVIDE STEEL SUPPORT RODS. PROVIDE NONMETALLIC, HAIR FELT, OR PLASTIC PIPING ISOLATORS BETWEEN COPPER TUBING AND THE HANGERS.
- ⑰ LABEL ALL WATER SERVICE VALVES IN ACCORDANCE WITH APPLICABLE CODES
- ⑱ COORDINATE EXACT FLOOR DRAIN LOCATIONS ARCHITECTURAL DRAWINGS. SLOPE ENTIRE ROOM TO DRAINS.
- ⑲ ROUTE SANITARY PIPING AS TO AVOID CONFLICT WITH FOOTINGS AND STRUCTURAL MEMBERS.
- ⑳ FIRE-STOP ALL PIPE PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES. SEE ARCHITECTURAL DWGS. AND COORDINATE WITH ARCHITECT AND GENERAL CONTRACTOR IN THE FIELD.
- ㉑ CLEARANCES TO BE COORDINATED PRIOR TO INSTALLATION. PROVIDE COORDINATION DRAWINGS SHOWING HVAC, PLUMBING, STRUCTURAL AND ELECTRICAL COMPONENTS FOR REVIEW. FAILURE TO PROVIDE COORDINATION DRAWINGS SHALL BE AT THE CONTRACTORS RISK. REWORK OF INSTALLED SYSTEMS CAUSED BY COORDINATION FAILURE SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
- ㉒ SAWCUT OR CORE DRILL PORTIONS OF WALL OR SLAB TO ACCOMMODATE REVISED CONDITIONS. PATCH AND REPAIR TO MATCH EXISTING CONSTRUCTION AND NEW FINISHES.
- ㉓ EXISTING CONDITIONS INDICATED ON THE PLUMBING DRAWINGS ARE BASED ON BEST AVAILABLE INFORMATION AND ESTIMATES OF SAID CONDITIONS. CONTRACTOR SHALL VERIFY ALL WASTE AND WATER SUPPLY PIPE SIZES, LOCATIONS, INVERTS, AND DIRECTIONS OF FLOW WITH EXISTING CONDITIONS PRIOR TO BEGINNING ANY NEW WORK. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT.
- ㉔ GROOVED VICTALIC STYLE PIPING CONNECTIONS ARE NOT ALLOWED ON THIS PROJECT.
- ㉕ ALL WORK AND MATERIALS TO COMPLY WITH SPECIFICATION REQUIREMENTS FOR COMMISSIONING OF PLUMBING SYSTEMS.

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100% QC RE-SUBMITTAL

BASKERVILLE-DONOVAN, INC.
 Innovative Infrastructure Solutions
 449 W. MAIN ST. PENSACOLA, FL 32502 (850)498-9661
 ENGINEERING BUSINESS: EBI0000340
 Pensacola - Panama City Beach - Tallahassee - Mobile - Breward County - Tampa
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PROJECT NO: 25898.03
 DESIGNED BY: DAN
 DRAWN BY: DAN
 CHK'D BY: DAN
 PROJ. MGR: DAN
 DATE: JANUARY 26, 2018

PLUMBING PLAN AND RISER DIAGRAMS

OLF-X AIRFIELD
 PHASE II - AIRFIELD

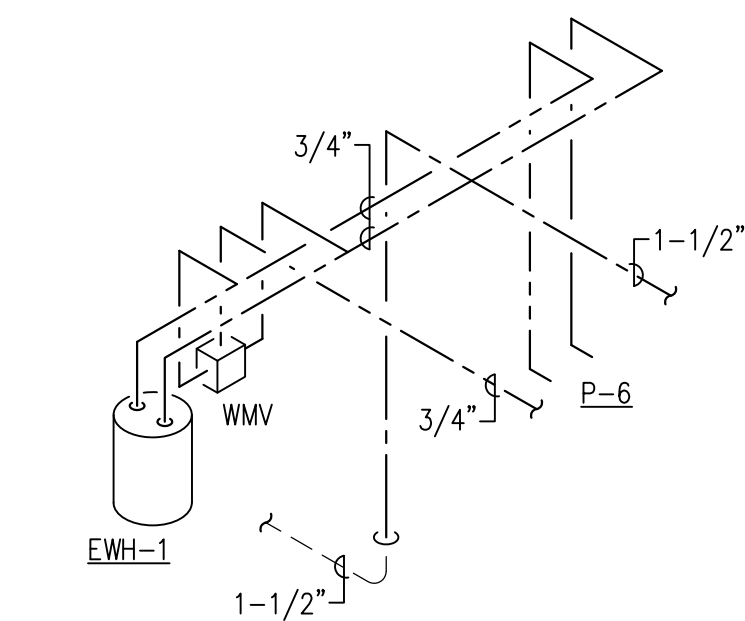
REVISION/ACTION TAKEN
 APPR.
 DATE
 NO.
 PROJECT NO: 25898.03
 DESIGNED BY: DAN
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NOT RELEASED FOR CONSTRUCTION BY DATE

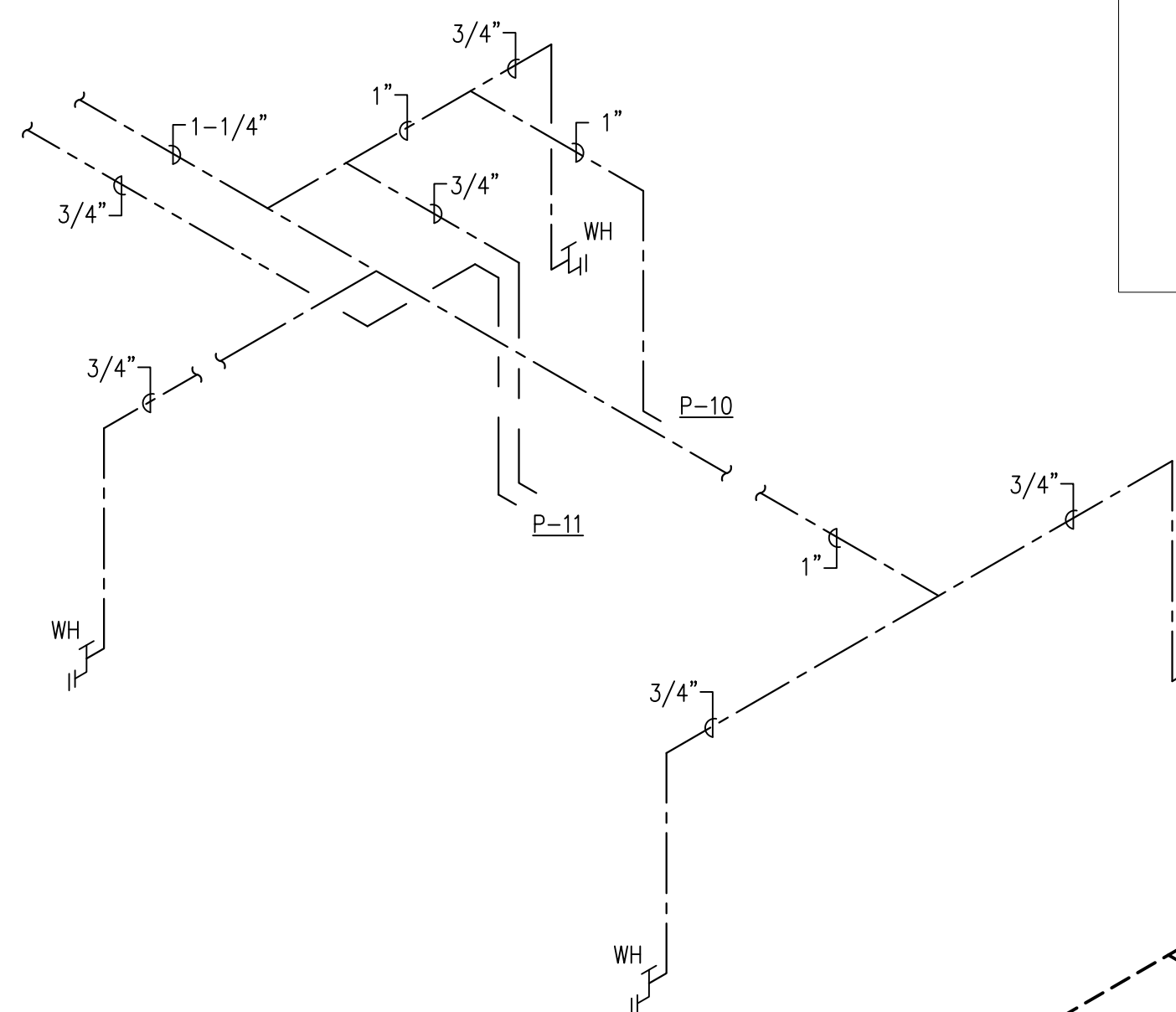
P-001

NEW WORK KEY NOTES

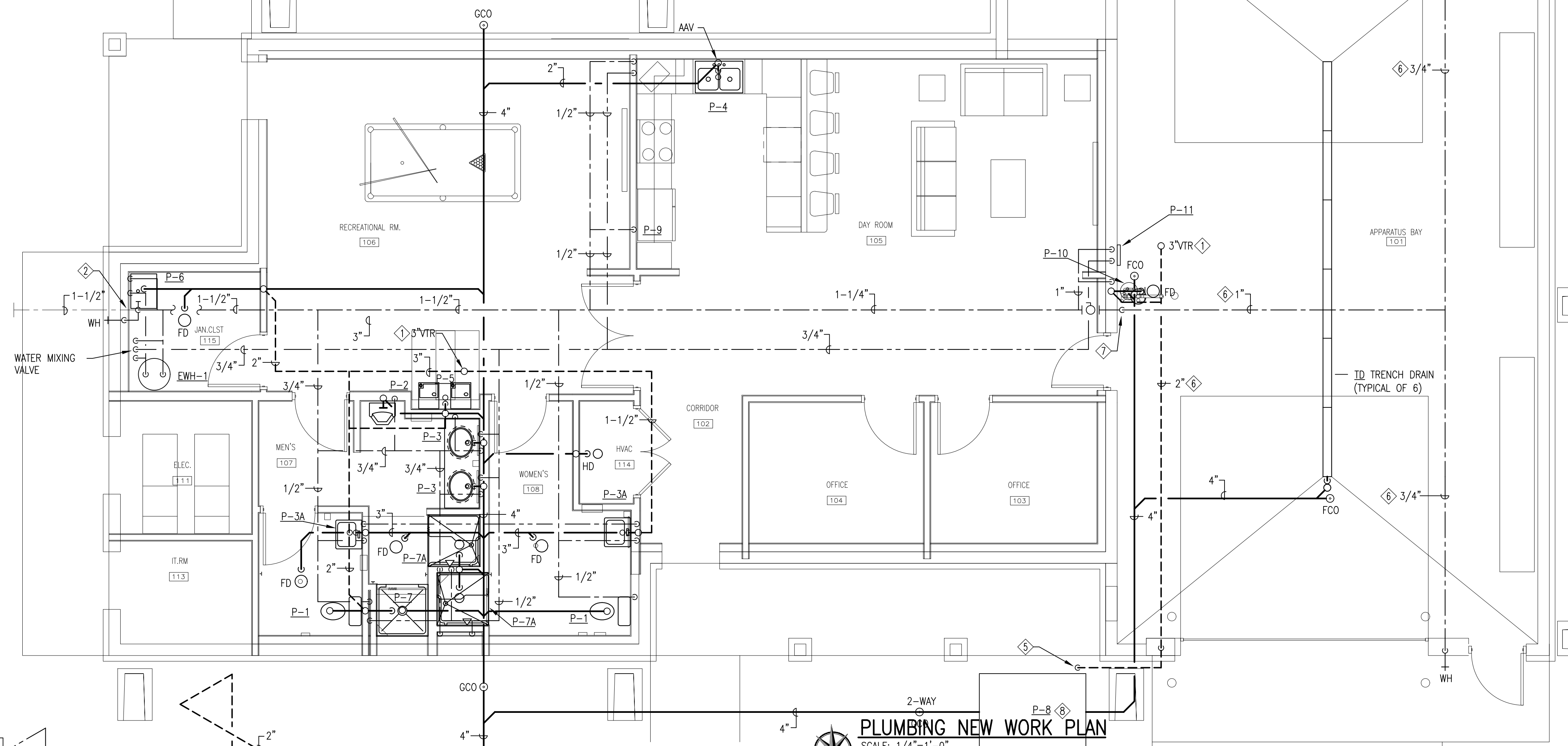
- ① VENT THRU ROOF, MAINTAIN MINIMUM 10'-0" CLEARANCE FROM AND OUTSIDE AIR INTAKE.
- ② POTABLE WATER, RISE IN BUILDING TO CEILING SPACE AND ROUTE TO FIXTURES AS INDICATED. PROVIDE SHUT OFF VALVE IN RISE. SUPPORT PIPING AS REQUIRED.
- ③ PROVIDE TRAP PRIMER, ROUTE PIPING UNDER SLAB TO FLOOR DRAIN(S). NO FITTINGS ALLOWED BELOW SLAB. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- ④ PROVIDE SIOUX CHIEF HYDRA-RESTER PISTON TYPE WATER HAMMER ARRESTER. SIZE AND INSTALL WATER HAMMER ARRESTERS IN ACCORDANCE WITH PDI STANDARD WH-201 AND MANUFACTURERS RECOMMENDATIONS.
- ⑤ ROUTE 2" VENT PIPING DOWN IN SPACE TO BELOW SLAB AND CONNECT TO OIL INTERCEPTOR PER MANUFACTURERS RECOMMENDATIONS.
- ⑥ ROUTE PIPING OVERHEAD IN APPARATUS BAY SECURED TO STRUCTURE. COORDINATE WITH OVERHEAD DOORS TO AVOID CONFLICT.
- ⑦ ROUTE WATER PIPING UP AT WALL IN APPARATUS BAY TO STRUCTURE ABOVE AND ROUTE TO FIXTURES AS INDICATED.
- ⑧ COORDINATE PLACEMENT OF OIL-SEPARATOR WITH HARDSCAPE



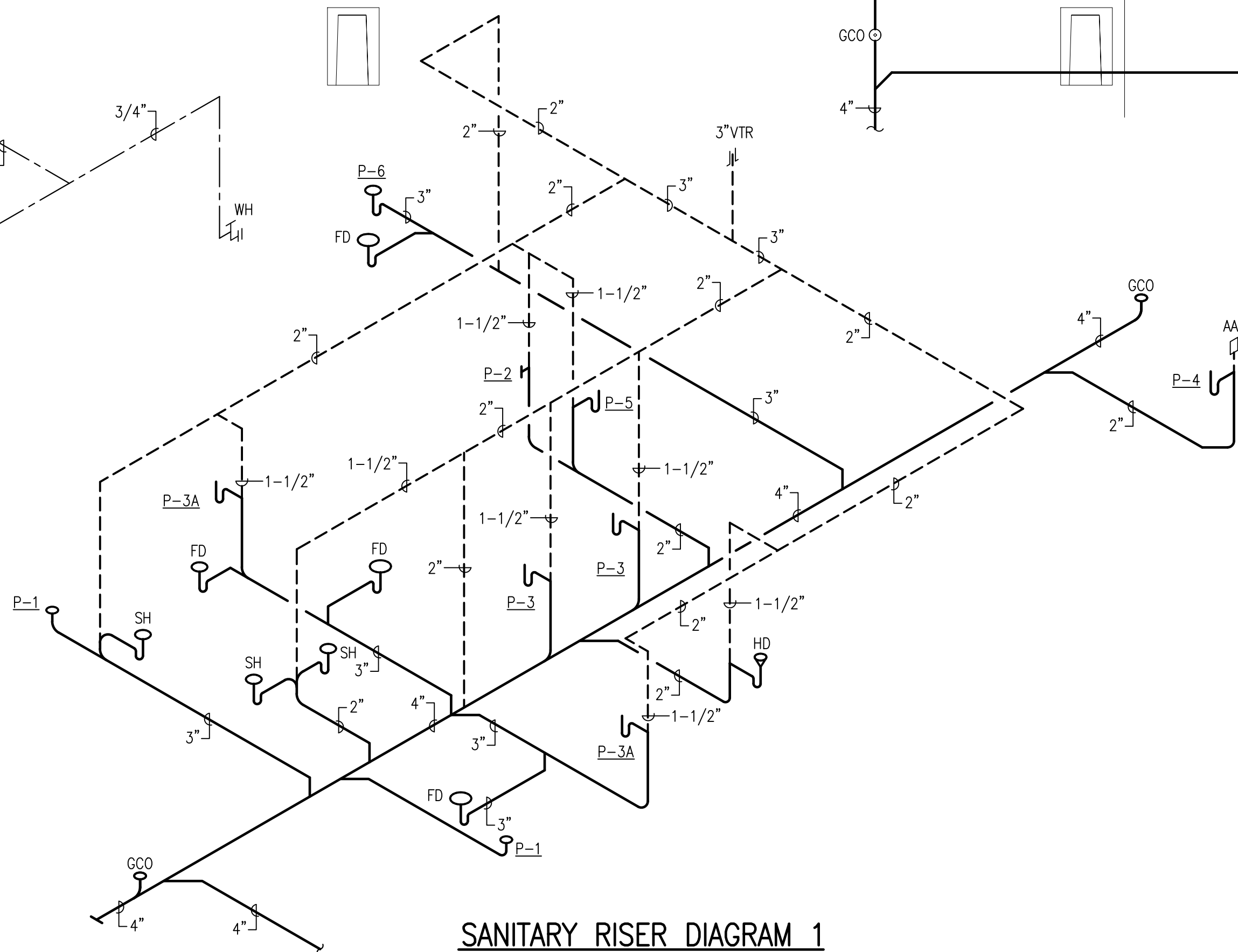
POTABLE WATER RISER DIAGRAM 2
SCHEMATIC



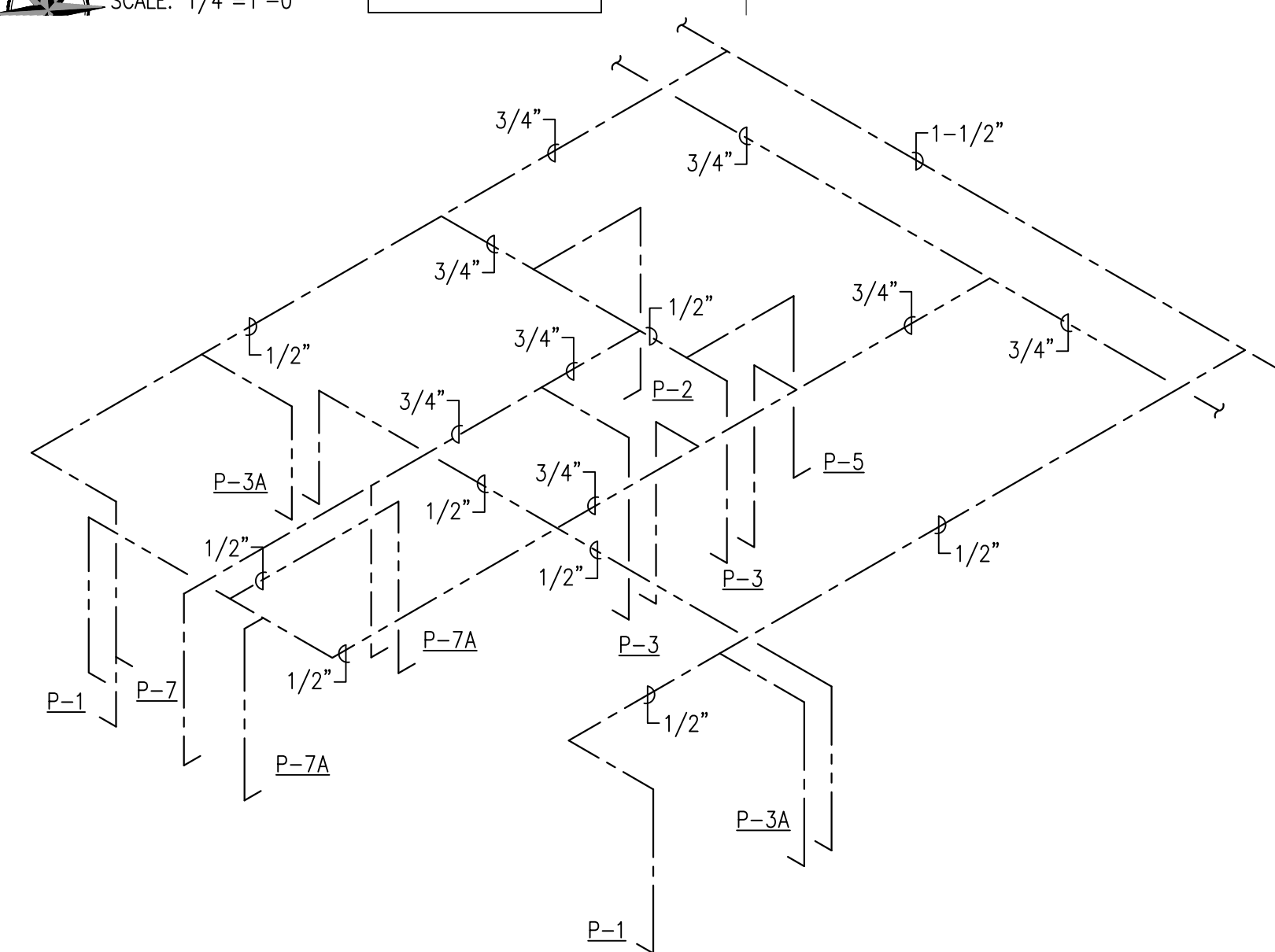
POTABLE WATER RISER DIAGRAM 3
SCHEMATIC



PLUMBING NEW WORK PLAN
SCALE: 1/4"=1'-0"



SANITARY RISER DIAGRAM 1
SCHEMATIC



POTABLE WATER RISER DIAGRAM 1
SCHEMATIC

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PHASE II - AIRFIELD

NO.	DATE	APPR.	REVISION/ACTION TAKEN

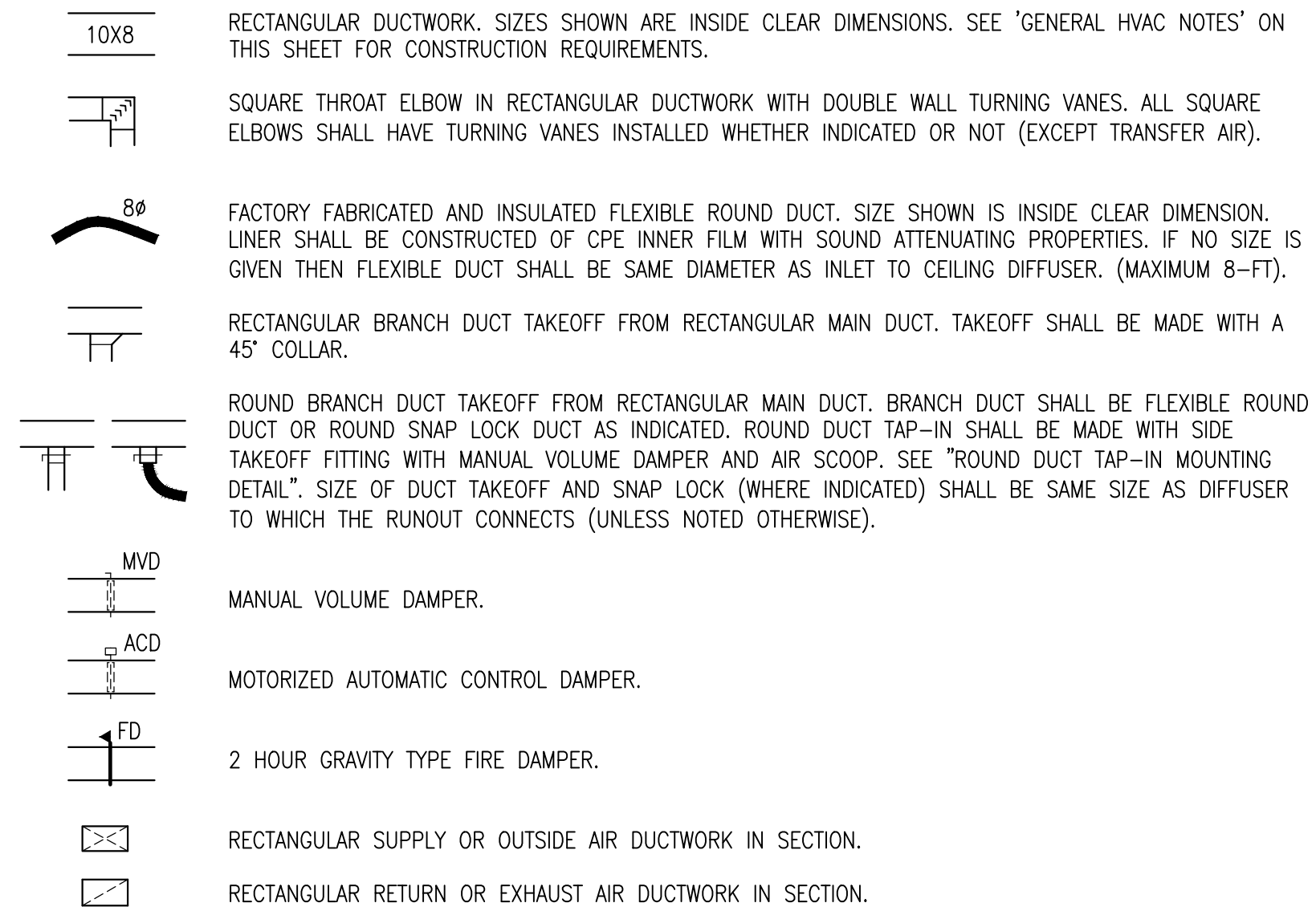
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DRAWN BY:	DAN
CHK'D BY:	DAN
PROJ. MGR:	DAN
DATE:	JANUARY 26, 2018

PLUMBING PLAN AND RISER DIAGRAMS

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P-201

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HVAC SYSTEM LEGEND



RECTANGULAR DUCTWORK. SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. SEE 'GENERAL HVAC NOTES' ON THIS SHEET FOR CONSTRUCTION REQUIREMENTS.

SQUARE THROAT ELBOW IN RECTANGULAR DUCTWORK WITH DOUBLE WALL TURNING VANES. ALL SQUARE ELBOWS SHALL HAVE TURNING VANES INSTALLED WHETHER INDICATED OR NOT (EXCEPT TRANSFER AIR).

FACTORY FABRICATED AND INSULATED FLEXIBLE ROUND DUCT. SIZE SHOWN IS INSIDE CLEAR DIMENSION. LNER SHALL BE CONSTRUCTED OF CPE INNER FILM WITH SOUND ATTENUATING PROPERTIES. IF NO SIZE IS GIVEN THEN FLEXIBLE DUCT SHALL BE SAME DIAMETER AS INLET TO CEILING DIFFUSER. (MAXIMUM 8'-FT).

RECTANGULAR BRANCH DUCT TAKEOFF FROM RECTANGULAR MAIN DUCT. TAKEOFF SHALL BE MADE WITH A 45° COLLAR.

ROUND BRANCH DUCT TAKEOFF FROM RECTANGULAR MAIN DUCT. BRANCH DUCT SHALL BE FLEXIBLE ROUND DUCT OR ROUND SNAP LOCK DUCT AS INDICATED. ROUND DUCT TAP-IN SHALL BE MADE WITH SIDE TAKEOFF FITTING WITH MANUAL VOLUME DAMPER AND AIR SCOOP. SEE "ROUND DUCT TAP-IN MOUNTING DETAIL". SIZE OF DUCT TAKEOFF AND SNAP LOCK (WHERE INDICATED) SHALL BE SAME SIZE AS DIFFUSER TO WHICH THE RUNOUT CONNECTS (UNLESS NOTED OTHERWISE).

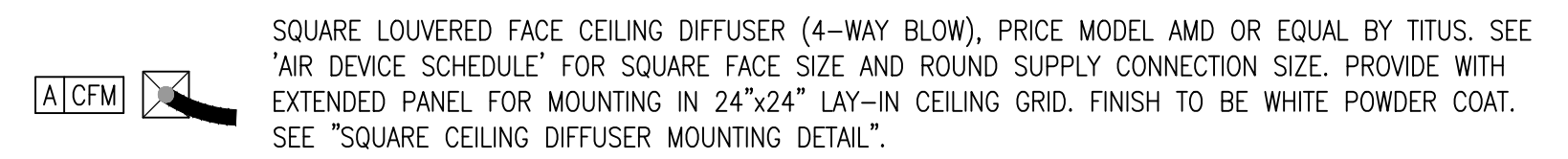
MANUAL VOLUME DAMPER.

MOTORIZED AUTOMATIC CONTROL DAMPER.

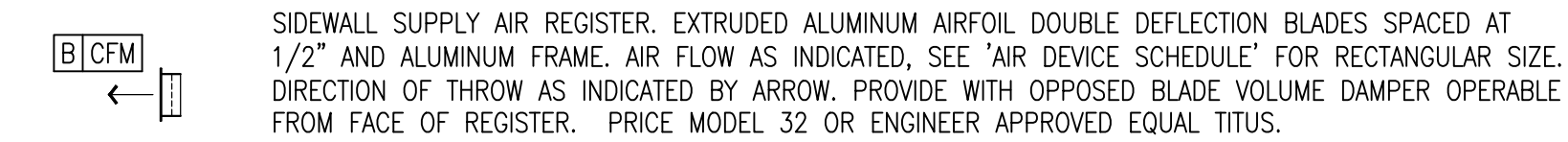
2 HOUR GRAVITY TYPE FIRE DAMPER.

RECTANGULAR SUPPLY OR OUTSIDE AIR DUCTWORK IN SECTION.

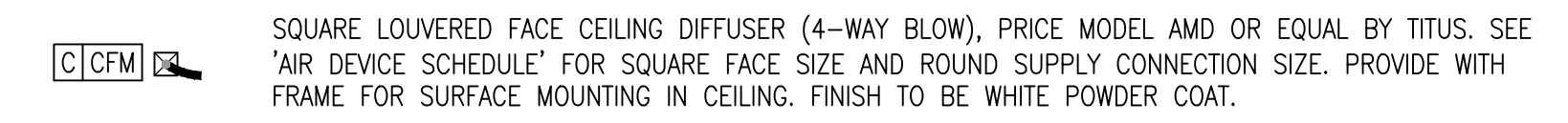
RECTANGULAR RETURN OR EXHAUST AIR DUCTWORK IN SECTION.



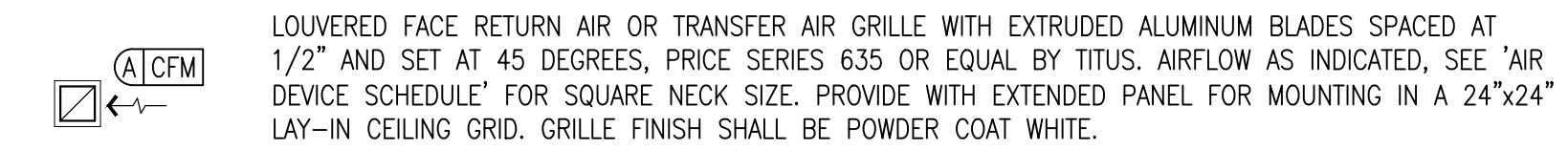
SQUARE LOUVERED FACE CEILING DIFFUSER (4-WAY BLOW). PRICE MODEL AMD OR EQUAL BY TITUS. SEE 'AIR DEVICE SCHEDULE' FOR SQUARE FACE SIZE AND ROUND SUPPLY CONNECTION SIZE. PROVIDE WITH EXTENDED PANEL FOR MOUNTING IN 24"x24" LAY-IN CEILING GRID. FINISH TO BE WHITE POWDER COAT. SEE "SQUARE CEILING DIFFUSER MOUNTING DETAIL".



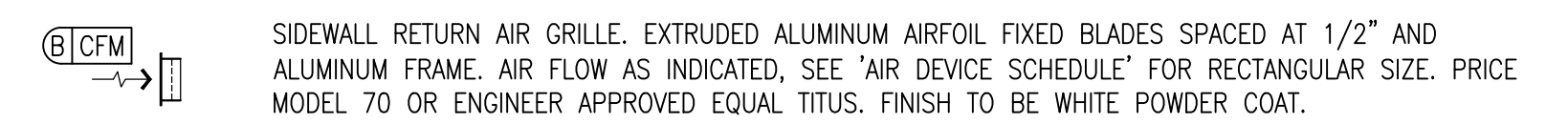
SIDEWALL SUPPLY AIR REGISTER. EXTRUDED ALUMINUM AIRFOIL DOUBLE DEFLECTION BLADES SPACED AT 1/2" AND ALUMINUM FRAME. AIR FLOW AS INDICATED. SEE 'AIR DEVICE SCHEDULE' FOR RECTANGULAR SIZE. DIRECTION OF THROW AS INDICATED BY ARROW. PROVIDE WITH OPPOSED BLADE VOLUME DAMPER OPERABLE FROM FACE OF REGISTER. PRICE MODEL 32 OR ENGINEER APPROVED EQUAL TITUS.



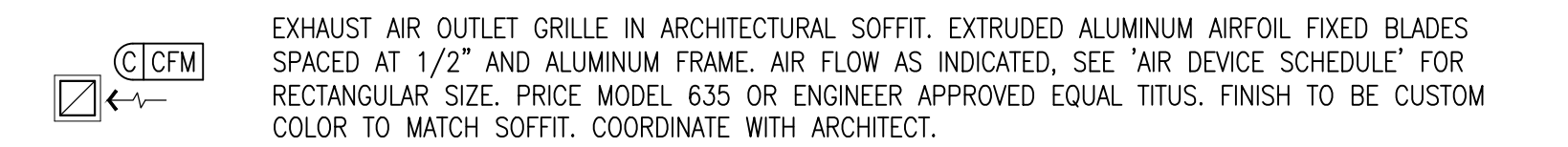
SQUARE LOUVERED FACE CEILING DIFFUSER (4-WAY BLOW). PRICE MODEL AMD OR EQUAL BY TITUS. SEE 'AIR DEVICE SCHEDULE' FOR SQUARE FACE SIZE AND ROUND SUPPLY CONNECTION SIZE. PROVIDE WITH FRAME FOR SURFACE MOUNTING IN CEILING. FINISH TO BE WHITE POWDER COAT.



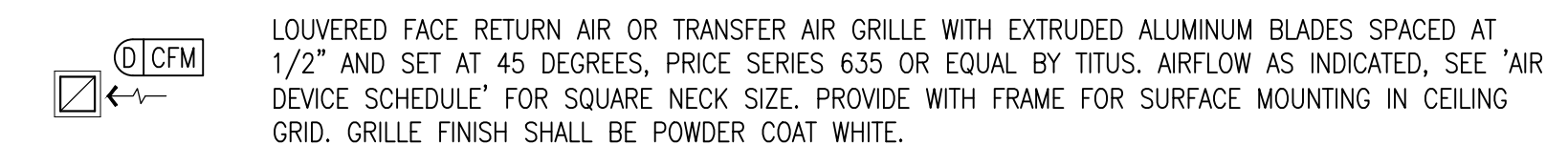
LOUVERED FACE RETURN AIR OR TRANSFER AIR GRILLE WITH EXTRUDED ALUMINUM BLADES SPACED AT 1/2" AND SET AT 45 DEGREES. PRICE SERIES 635 OR EQUAL BY TITUS. AIRFLOW AS INDICATED. SEE 'AIR DEVICE SCHEDULE' FOR SQUARE NECK SIZE. PROVIDE WITH EXTENDED PANEL FOR MOUNTING IN A 24"x24" LAY-IN CEILING GRID. GRILLE FINISH SHALL BE POWDER COAT WHITE.



SIDEWALL RETURN AIR GRILLE. EXTRUDED ALUMINUM AIRFOIL FIXED BLADES SPACED AT 1/2" AND ALUMINUM FRAME. AIR FLOW AS INDICATED. SEE 'AIR DEVICE SCHEDULE' FOR RECTANGULAR SIZE. PRICE MODEL 70 OR ENGINEER APPROVED EQUAL TITUS. FINISH TO BE WHITE POWDER COAT.



EXHAUST AIR OUTLET GRILLE IN ARCHITECTURAL SOFFIT. EXTRUDED ALUMINUM AIRFOIL FIXED BLADES SPACED AT 1/2" AND ALUMINUM FRAME. AIR FLOW AS INDICATED. SEE 'AIR DEVICE SCHEDULE' FOR RECTANGULAR SIZE. PRICE MODEL 635 OR ENGINEER APPROVED EQUAL TITUS. FINISH TO BE CUSTOM COLOR TO MATCH SOFFIT. COORDINATE WITH ARCHITECT.



LOUVERED FACE RETURN AIR OR TRANSFER AIR GRILLE WITH EXTRUDED ALUMINUM BLADES SPACED AT 1/2" AND SET AT 45 DEGREES. PRICE SERIES 635 OR EQUAL BY TITUS. AIRFLOW AS INDICATED. SEE 'AIR DEVICE SCHEDULE' FOR SQUARE NECK SIZE. PROVIDE WITH FRAME FOR SURFACE MOUNTING IN CEILING GRID. GRILLE FINISH SHALL BE POWDER COAT WHITE.



UNDERCUT DOOR 3/4" TO ALLOW AIR FLOW IN THE DIRECTION INDICATED.



SUPPLY AND OUTSIDE AIR FLOW.



RETURN AND EXHAUST AIR FLOW.



HEATING/COOLING PROGRAMMABLE THERMOSTAT FOR INDICATED AIR HANDLING UNIT, MOUNT AT 48" A.F.F. WHERE SHOWN ON HVAC PLAN. THERMOSTAT SHALL OPEN OUTSIDE AIR DAMPER DURING OCCUPANCY.

HVAC EQUIPMENT IDENTIFICATION TAG: 'ID' = EQUIPMENT TYPE, '#' = UNIT IDENTIFIER
 'HP' - HEAT PUMP CONDENSING UNIT FOR CORRESPONDING INDOOR AIR HANDLING UNIT.
 'EF' - EXHAUST FAN. SEE SCHEDULE AND INSTALLATION DETAIL.
 'AHU' - HEAT PUMP AIR HANDLING UNIT.
 'UH' - UNIT HEATER.
 'AC' - COOLING ONLY CONDENSING UNIT.
 'WH' - WALL HEATER.
 'AH' - TERMINAL AIR HANDLER.

DESIGN CONDITIONS

PENSACOLA, FLORIDA

INDOOR		OUTDOOR *	
SUMMER: 73°F db	SUMMER: 93°F db	SUMMER: 78°F wb	SUMMER: 55% RH
WINTER: 70°F db	WINTER: 28°F db		

*FROM ASHRAE 0.4% DESIGN DATA

GENERAL HVAC NOTES

- ALL SUPPLY AND OUTSIDE AIR DUCTWORK SHALL BE GALVANIZED STEEL, LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1" W.G., SEAL CLASS B, ALL DUCTWORK CONCEALED ABOVE CEILINGS SHALL BE EXTERNALLY INSULATED WITH 2" THICK DUCTWRAP WITH A MINIMUM INSTALLED R-VALUE OF 6.0. ALL DUCTWORK EXPOSED TO VIEW (IN MECHANICAL CLOSETS) SHALL BE EXTERNALLY INSULATED WITH 1" THICK RIGID FIBERGLASS. DUCT SIZES INDICATED ARE ACTUAL INSIDE CLEAR DIMENSIONS.
- ALL RETURN AIR (OR TRANSFER AIR) DUCTWORK SHALL BE GALVANIZED STEEL LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1" W.G., SEAL CLASS B. DUCTWORK SHALL BE INTERNALLY INSULATED WITH 1-1/2" THICK ACOUSTICAL DUCT LINER WITH A MINIMUM INSTALLED R-VALUE OF 6.0. DUCT SIZES INDICATED ARE INSIDE CLEAR "AIR-CARRYING PASSAGE" DIMENSIONS, SHEET METAL DIMENSIONS SHALL BE INCREASED ACCORDINGLY. ACOUSTIC DUCT LINER SHALL HAVE THE AIR STREAM SURFACE COATED WITH AN EPA REGISTERED BIOCIDES TO PREVENT MICROBIAL GROWTH MEETING THE REQUIREMENTS OF ASTM C1338, ASTM G21, AND ASTM G22. ACOUSTIC INSULATION SHALL BE AS MANUFACTURED BY OWENS CORNING "QUIET-R" OR ENGINEER APPROVED EQUAL. CONTRACTOR SHALL INSTALL THE ACOUSTICAL LINING WITH 90% ADHESIVE COVERAGE AND IN STRICT COMPLIANCE WITH THE INSULATION MANUFACTURER'S RECOMMENDATIONS.
- ALL DUCT CONNECTIONS / MECHANICAL ATTACHMENTS SHALL COMPLY WITH SECTION 603.1.6 OF THE 2010 FLORIDA BUILDING CODE. DUCT CLOSURE SYSTEMS SHALL COMPLY WITH ALL PROVISIONS OF SECTION 603.1.7 OF THE 2010 FLORIDA BUILDING CODE - SPECIFICALLY FOR THIS PROJECT, DUCT CLOSURE SHALL COMPLY WITH SECTION 603.3.1 'PRESSURES LESS THAN 1 INCH WATER GAGE'.
- ALL EXHAUST AIR DUCTWORK SHALL BE GALVANIZED STEEL, LOW PRESSURE ROUND OR RECTANGULAR SINGLE WALL, UNINSULATED. DUCT SIZES INDICATED ARE ACTUAL SHEET METAL DIMENSIONS.
- ALL SPLIT SYSTEM INDOOR UNITS SHALL BE INSTALLED ON AN INTERNALLY INSULATED MIXED AIR PLENUM. THE MIXED AIR PLENUM SHALL BE CONSTRUCTED OF ANGLE IRON WITH ALL SIX SIDES (INCLUDING BOTTOM) COVERED WITH 16 GAGE SHEET METAL. SHEET METAL PLENUM TO BE BUILT AND SET IN PLACE PRIOR TO NEW MECHANICAL CLOSET WALLS BEING CONSTRUCTED (IF REQUIRED). SEAL ALL JOINTS AIR TIGHT WITH SILICONE BASED ACRYLIC LATEX CAULKING INSIDE AND OUTSIDE. INTERNALLY INSULATE ENTIRE PLENUM WITH 1-1/2" THICK ANTI-MICROBIAL TREATED DUCT LINER WITH A MINIMUM INSTALLED R-VALUE OF 6.0. INSTALL A FACTORY FABRICATED 12"x12" ACCESS DOOR IN THE FRONT-CENTER OF THE MIXED AIR PLENUM FOR INSPECTION / ACCESS.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES ALL REQUIRED OPENINGS IN WALLS, FOUNDATIONS, FLOORS, AND ROOFS.
- REMOVE FROM THE SITE AND LEGALLY DISPOSE OF ALL ITEMS DEMOLISHED AS PART OF THIS PROJECT OR ALL ITEMS GENERATED AS CONSTRUCTION DEBRIS AS A RESULT OF NEW WORK OF THIS PROJECT.
- ALL OUTSIDE AIR INLETS SHALL BE LOCATED A MINIMUM OF 10 FEET FROM ANY EXHAUST AIR OUTLET OR PLUMBING VENT STACK. COORDINATE WITH THE PLUMBING DRAWINGS AND WITH THE PLUMBING AND GENERAL CONTRACTORS IN THE FIELD.
- ENGINEER HAS VERIFIED DIMENSIONAL AND PERFORMANCE SUITABILITY OF BASIS-OF-DESIGN EQUIPMENT MANUFACTURERS AS LISTED IN THE EQUIPMENT SCHEDULES. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY UNIT PROPOSED TO BE INSTALLED FITS ALL REQUIRED PROJECT DIMENSIONS AND MEETS ALL SCHEDULED OR SPECIFIED PERFORMANCE CRITERIA PRIOR TO BID. ANY ADDITIONAL WORK DUE TO EQUIPMENT OTHER THAN THAT SPECIFIED AS 'BASIS-OF-DESIGN' SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
- UNDERCUT EACH RESTROOM, JANITOR'S CLOSET, AND OTHER DOORS INDICATED ON HVAC PLAN BY 3/4" TO ALLOW RETURN OR EXHAUST AIR FLOW. COORDINATE WITH ARCHITECTURAL DRAWINGS AND WITH GENERAL CONTRACTOR.
- THE MECHANICAL CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS AND BE RESPONSIBLE FOR ALL RELATED CLEARANCES IN THE FIELD. PROVIDE ADEQUATE MAINTENANCE CLEARANCE AROUND EACH INDOOR AND OUTDOOR UNIT PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS PER NATIONAL ELECTRIC CODE REQUIREMENTS. COORDINATE EXACT LOCATION OF ALL OUTDOOR UNITS IN THE FIELD WITH THE ARCHITECT AND THE OWNER.
- MANUFACTURER OF HVAC EQUIPMENT SHALL SIZE ALL REFRIGERANT PIPING AND SHALL PROVIDE ALL ACCESSORIES (SUCTION LINE ACCUMULATORS, ETC.) AS REQUIRED FOR THE PROPER OPERATION OF EQUIPMENT AND LENGTH OF PIPING SHOWN ON PLANS.
- THE SUCTION AND LIQUID LINES SHALL BE TYPE 'L' HARD DRAWN COPPER TUBING, INSULATED WITH MINIMUM 3/4" ARMAFLEX OR EQUAL. SOFT COPPER TUBING MAY BE USED IF NECESSARY TO INSTALL PIPING AROUND OBSTRUCTIONS OR THROUGH UNDERGROUND SLEEVES. AVOID SHARP BENDS AS TUBING MAY PINCH CAUSING RESTRICTION. USE LONG RADIUS ELBOWS WHENEVER POSSIBLE WITH SHORT RADIUS ELBOWS FOR THE TRAP AT THE BOTTOM OF SUCTION RISERS (WHERE REQUIRED BY MANUFACTURER). BRAZE ALL CU TO CU JOINTS WITH SILFOS-5 EQUIVALENT BRAZING MATERIAL. DO NOT USE SOFT SOLDER. SUCTION LINES TO BE SUPPORTED A MINIMUM OF EVERY 8 FT; LIQUID LINES A MINIMUM OF EVERY 6 FT.
- ALL REFRIGERANT PIPING INSTALLED OUTSIDE THE BUILDING AND EXPOSED TO THE WEATHER SHALL BE COVERED WITH ALUMINUM JACKETING OVER TOP OF THE INSULATION. ALL JOINTS OF JACKETING SHALL BE SEALED WEATHERTIGHT WITH SILICON SEALANT.
- INSTALL EQUIPMENT AND RUN PIPES AND DUCTS PARALLEL WITH OR AT RIGHT ANGLES TO THE WALLS OF THE BUILDING UNLESS SHOWN OTHERWISE ON THE DRAWINGS. PARALLELED RUNS SHALL BE STRAIGHT AND TRUE WITH OFFSETS UNIFORM AND SYMMETRICAL.
- FLEXIBLE DUCT INSTALLATION SHALL BE IN ACCORDANCE TO THE 2010 FLORIDA MECHANICAL CODE SECTION 603.5.6.6 "FLEXIBLE DUCT INSTALLATION AND SUPPORT". THIS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING: 1) DUCTS SHALL BE FULLY EXTENDED, 2) BENDS SHALL MAINTAIN A CENTERLINE RADIUS OF NOT LESS THAN ONE DUCT DIAMETER, 3) TERMINAL DEVICES SHALL BE SUPPORTED INDEPENDENTLY OF FLEXIBLE DUCT, 4) HORIZONTAL DUCT SHALL BE SUPPORTED AT INTERVALS NOT GREATER THAN 5 FEET. DUCT SAG BETWEEN SUPPORTS SHALL NOT EXCEED 1/2 INCH PER FOOT OF LENGTH. SUPPORTS SHALL BE PROVIDED WITHIN 1.5 FEET OF INTERMEDIATE FITTINGS AND BETWEEN INTERMEDIATE FITTINGS AND BENDS, 5) VERTICAL DUCT SHALL BE STABILIZED WITH SUPPORT STRAPS AT NOT GREATER THAN 6 FEET, 6) HANGARS, SADDLES, AND OTHER SUPPORTS SHALL MEET THE DUCT MANUFACTURER'S RECOMMENDATIONS AND IN NO CASE SHALL THE MATERIAL IN DIRECT CONTACT WITH AND SUPPORTING THE FLEXIBLE DUCT BE LESS THAN 1-1/2 INCHES WIDE.
- GROOVED VICTAULIC STYLE PIPING CONNECTIONS ARE NOT ALLOWED ON THIS PROJECT.

ELECTRIC HEATER SCHEDULE

MARK	UH-1 THRU 6		WH-1	NOTES:
	TYPE	HFF		
HEATING CAPACITY, KW	5	0.75		HFF - HORIZONTAL FAN FORCED UNIT HEATER. UNIT SHALL HAVE BE RATED FOR ZERO CLEARANCE TO COMBUSTIBLES.
VOLTAGE	240	120		WALL - FORCED AIR WALL HEATER WITH SURFACE MOUNTING ADAPTER
PHASE	1	1		
AMPS	24	6.25		
CONTROL VOLTAGE	208	-		
TEMP RISE, °F	40	-		
AIR THROW, FT	26	-		
AIRFLOW, CFM	400	175		
BASIS OF DESIGN MANUFACTURER & REMARKS	MARKEL F1FH05003	MARKEL E3321TD-RP		

FAN SCHEDULE

MARK	CEF-1	CEF-2	CEF-3	CEF-4	EF-5	NOTES:	
	DRIVE	DIRECT	DIRECT	DIRECT	DIRECT		
INTERLOCKS	MS	MS	LS	LS	S	LS - LIGHT SWITCH MS - MOTION SENSOR S - SWITCH	
PERFORMANCE DATA	AIR FLOW CFM	110	70	170	120	665	PROVIDE CEILING MOUNTED FANS WITH SPEED CONTROLLER FOR AIR FLOW BALANCING AND TIME DELAY RELAY.
	EXT. STATIC PRESS. IN. W.C.	0.125	0.125	0.125	0.125	5.0	
	MAXIMUM RPM	950	625	1050	950	3450	
	MAXIMUM SONES	1.5	1.4	2.5	1.5	10	
ELECTRICAL DATA	MAX. WATTS/HP	80.2 W	15.8 W	172 W	128 W	1.0 HP	
	VOLTS	115	115	115	115	115	
	PHASE	1	1	1	1	1	
	Hz	60	60	60	60	60	
BASIS OF DESIGN MANUFACTURER & REMARKS	GREEN HECK SP-B110	GREEN HECK SP-B70	GREEN HECK SP-B200	GREEN HECK SP-B150	MONOXIVENT D-10		

HVAC TEST & BALANCE NOTES

- THE GENERAL CONTRACTOR SHALL EMPLOY A PROFESSIONAL TEST AND BALANCE (TAB) FIRM AS A DIRECT SUB-CONTRACTOR TO THE MECHANICAL CONTRACTOR. THE TAB CONTRACTOR SHALL BE A N.E.B.B. OR A.A.B.C. CERTIFIED AGENCY. THE TAB CONTRACTOR SHALL SUBMIT PROOF OF AGENCY CERTIFICATION AND PERSONNEL QUALIFICATIONS PRIOR TO PERFORMING ANY FIELD WORK.
- THE FOLLOWING COMPONENTS OF THE HVAC SYSTEM SHALL BE TESTED AND BALANCED PER NATIONALLY ACCEPTED TESTING STANDARDS AND PER SPECIAL CONDITIONS AS STATED BELOW:
- EXHAUST FAN SYSTEMS: FANS WHICH SHARE COMMON EXHAUST DUCTING OR DISCHARGE LOUVERS SHALL BE TAB'D WITH ALL FANS OPERATING SIMULTANEOUSLY AND RE-TESTED AFTER ALL FANS ARE BALANCED. FANS SHALL BE BALANCED BY MEANS OF SPEED CONTROL TO WITHIN 10% OF AIRFLOW SHOWN ON DESIGN DOCUMENTS.
 - SUPPLY AIR SYSTEMS: ALL SUPPLY AIR OUTLETS SHALL BE TAB'D TO WITHIN 10% OF AIRFLOW VALUES SHOWN ON DESIGN DOCUMENTS.
 - RETURN AIR SYSTEMS: ALL RETURN AIR GRILLES SHALL BE TAB'D TO WITHIN 10% OF THE SUM OF AIR TO BE RETURNED VIA EACH GRILLE. RETURN AIR FLOWS SHOWN AT GRILLES ON PLANS ARE WITH OUTSIDE AIR DAMPERS CLOSED SO UNIT AIR FLOW IS 100% RETURN AIR. TRANSFER AIR GRILLES ARE NOT REQUIRED TO BE BALANCED.
- NOTE: SUPPLY AIR AND RETURN AIR SYSTEMS SHALL BE BALANCED TO INDICATED VALUES WITH THE OUTSIDE AIR TO EACH UNIT CLOSED AND ALL EXHAUST FANS TURNED OFF.
- OUTSIDE AIR SYSTEMS: AFTER ALL SUPPLY, RETURN, AND EXHAUST AIR SYSTEMS HAVE BEEN TAB'D PER THE ABOVE PROCEDURES THE CONTRACTOR SHALL TAB THE OUTSIDE AIR FLOW TO EACH UNIT TO WITHIN 10% OF THE VALUE SHOWN ON THE DESIGN DOCUMENTS.
 - EQUIPMENT: ALL EQUIPMENT SHALL BE TESTED FOR ELECTRICAL AND MECHANICAL OPERATING PROPERTIES AS PER NATIONAL TAB STANDARDS.

SPLIT SYSTEM AIR TO AIR HEAT PUMP UNIT SCHEDULE

MARK	AHU/HP-1	AH/CU-1	NOTES:	
	TOTAL AIR CFM	1600		350
INDOOR SECTION	OUTSIDE AIR CFM	300	-	
	EXTERNAL STATIC PRESSURE IN. W.G.	0.5	-	
	MAXIMUM FAN HORSEPOWER	3/4	1/10	
	ELECTRICAL DATA - SINGLE POINT	VOLTS	208	24V DC
		PHASE	1	-
FILTER	Hz	60	-	
	MCA	53.8	1	
	MOCP	60	-	
	TYPE	T-WAY	WASHABLE	
OUTDOOR SECTION	COMPRESSOR	QTY	1	1
		MAXIMUM R.L.A. EACH REFRIGERANT TYPE	27.0	-
	CONDENSER FANS	QTY	1	1
		MAXIMUM R.L.A. EACH	1.5	.35
	ELECTRICAL DATA	FAN TYPE	PROP	PROP
		VOLTS	208	208
		PHASE	1	1
		Hz	60	60
	HEATING DATA	MCA	36.6	10.0
		MOCP	50	15
COOLING DATA	TOTAL NOMINAL CAPACITY BTUH	48,000	12,000	
	MINIMUM S.E.E.R.	18	21.5	
AUXILIARY HEATER DATA	NOMINAL CAPACITY BTUH	36,000	NA	
	C.O.P.	3	NA	
	TOTAL KW	10	NA	
	ELECTRICAL DATA	NO. OF STEPS	2	NA
		VOLTS	208	NA
	PHASE	1	NA	
	Hz	60	NA	
BASIS OF DESIGN MANUFACTURER & REMARKS	1234	245		
	5678	678	91013	

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 21 East Wright St.
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BASKERVILLE-DONOVAN, INC.
 Innovative Infrastructure Solutions
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 ENGINEERING BUSINESS: EBC0000340
 Pensacola - Panama City Beach - Tallahassee - Mobile - Breward County - Tampa
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OLF-X
 PHASE II - AIRFIELD

NO.	DATE	APPR.	REVISION/ACTION TAKEN

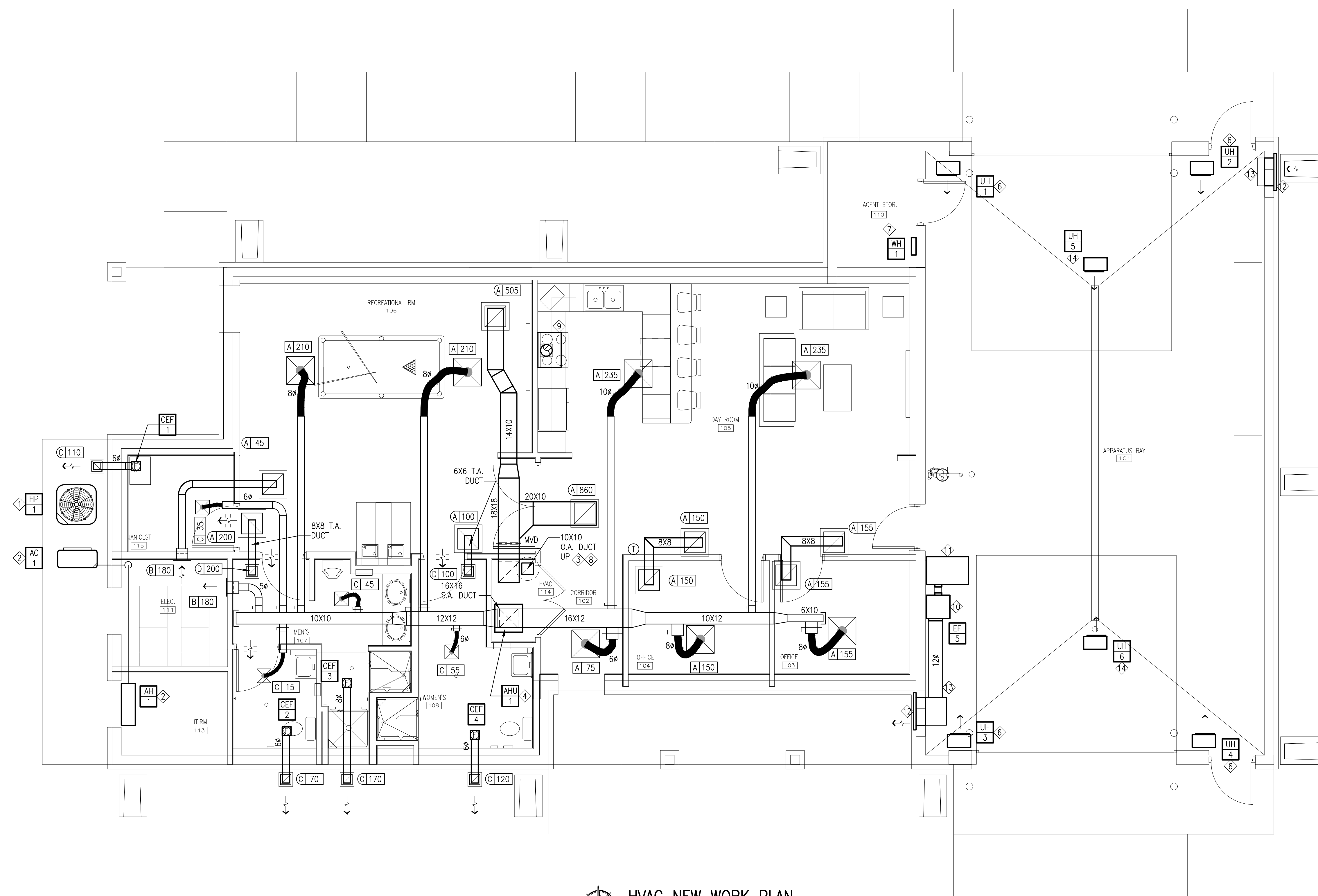
PROJECT NO: 25898.03
 DESIGNED BY: DAN
 DRAWN BY: DAN
 CHK'D BY: DAN
 PROJ. MGR: DAN
 DATE: JANUARY 26, 2018

HVAC LEGEND, SCHEDULES AND NOTES

M-001

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HVAC NEW WORK PLAN
SCALE: 1/4"=1'-0"

NEW WORK NOTES

- 1. INSTALL NEW OUTDOOR HEAT PUMP UNIT. ROUTE REFRIGERANT PIPES AND CONTROL WIRING IN UNDERGROUND 4" PVC CONDUIT TO TO CORRESPONDING AIR HANDLING UNIT IN MECHANICAL CLOSET. SEAL FLOOR AND OUTDOOR CONCRETE SLAB PENETRATIONS WATERTIGHT.
- 2. INSTALL MINI-SPLIT OUTDOOR UNIT. ON CONCRETE PAD. PENETRATE EXTERIOR WALL LOW AND ROUTE UP IN ELECTRICAL ROOM. ROUTE REFRIGERANT PIPES AND CONTROLS TO CORRESPONDING AIR HANDLING UNIT IN "IT ROOM". SLEEVE AND SEAL EXTERIOR WALL PENETRATION AND ELECTRICAL ROOM WALLS WATERTIGHT.
- 3. DUCT DOWN TO PLENUM FROM GRAVITY INTAKE VENTILATOR ON ROOF. PROVIDE MOTORIZED CONTROL DAMPER AND INTERLOCK WITH AIR HANDLING UNIT FAN. PROVIDE MVD FOR AIRFLOW BALANCING.
- 4. INSTALL INDOOR AIR HANDLING UNIT ON FIELD-FABRICATED RETURN AIR PLENUM.
- 5. INSTALL MINI-SPLIT INDOOR UNIT ABOVE DOOR. PROVIDE CONDENSATE PUMP AND ROUTE PIPE TO SERVICE SINK IN JANITOR'S CLOSET. COORDINATE PIPE LOCATIONS WITH ELECTRICAL.
- 6. ELECTRIC UNIT HEATER IN APPARATUS BAY SUSPENDED FROM STRUCTURE ABOVE AT 9'-0" ABOVE FINISHED FLOOR.
- 7. SURFACE-MOUNTED WALL HEATER. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.
- 8. PROVIDE SPUN ALUMINUM GRAVITY INTAKE VENTILATOR (GIV) WITH FACTORY ROOF CURB TO MATCH ROOF SLOPE. GIV SHALL BE GREENHECK MODEL GRSI-10 OR APPROVED EQUAL. PROVIDE CUSTOM COLOR AS SELECTED BY ARCHITECT TO MATCH ROOF.
- 9. PROVIDE DFP MODEL D1030-I-DF RANGE HOOD SYSTEM COMPLETE WITH HOOD, IN-LINE FAN, ROOF CAP, PULL STATION, POWER SHUT-OFF SWITCH AND SUPPRESSION SYSTEM. BALANCE TO 150 CFM. PROVIDE 10" EXHAUST DUCT FROM HOOD TO FAN.
- 10. PROVIDE MONOXIVENT MODEL D10 VEHICLE EXHAUST FAN SYSTEM OR ENGINEER APPROVED EQUAL. SUPPORT FAN FROM WALL OR ROOF STRUCTURE.
- 11. PROVIDE MONOXIVENT MODEL 9000-W VEHICLE EXHAUST HOSE REEL OR ENGINEER APPROVED EQUAL. PROVIDE WITH 30' OF 6" DIAMETER HOSE, SPRING RETRACTION, PULL DOWN ROPE/HANDLE AND SPRING TAILPIPE NOZZLE. PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM. SUPPORT SYSTEM FROM ROOF STRUCTURE. COORDINATE LOCATION WITH GARAGE DOOR.
- 12. PROVIDE 24"x24" GREENHECK MODEL EVH-602 VERTICAL BLADE WIND DRIVEN RAIN LOUVER WITH FLANGED FRAME. MOUNT AS HIGH AS PRACTICAL. PROVIDE PLENUM FROM BACK OF LOUVER.
- 13. PROVIDE LOW LEAKAGE MOTORIZED DAMPER. REFER TO "EMERGENCY AIR DISTRIBUTION SHUT OFF SWITCH" NOTES FOR ADDITIONAL REQUIREMENTS.
- 14. PROVIDE ELECTRIC UNIT HEATER IN ATTIC SUSPENDED FROM STRUCTURE. SET THERMOSTAT TO MAINTAIN 42F FOR FIRE SPRINKLER FREEZE PROTECTION.

MARK	A CFM				B CFM				C CFM				D CFM					
	0-100	105-130	135-235	240-290	<70	6X6	6X6	6X6	8X8	10X10	12X12	14X14	16X16	20X20	<70	<170	<100	101-200
CFM	0-100	105-130	135-235	240-290	<70	6X6	6X6	6X6	8X8	10X10	12X12	14X14	16X16	20X20	<70	<170	<100	101-200
SIZE	6X6	6X6	9X9	9X9	6X4	6X6	6X6	6X6	8X8	10X10	12X12	14X14	16X16	20X20	6X6	8X8	6X6	8X8
DUCT CONNECTION	6ø	8ø	8ø	10ø	5ø	6ø	6X6	6X6	8X8	10X10	12X12	14X14	16X16	20X20	6X6	8X8	6X6	8X8

COMMENTS: SEE "HVAC SYSTEM LEGEND" FOR BASIS-OF-DESIGN MANUFACTURER AND DEVICE TYPE. PERFORMANCE SHALL BE EQUAL TO THAT SPECIFIED.

EMERGENCY AIR DISTRIBUTION SHUT OFF SWITCH

PROVIDE ANTI-TERRORISM SHUT OFF SWITCH NEXT TO AHU-1 THERMOSTAT. SWITCH SHALL BE PUSH/PULL TYPE. THE SWITCH SHALL DISABLE ALL AIR HANDLERS, HEAT PUMPS, CONDENSING UNITS, FANS (INCLUDING RANGE HOOD AND VEHICLE EXHAUST) AND UNIT HEATERS. THE SWITCH SHALL ALSO CLOSE THE OUTSIDE AIR DAMPERS. PROVIDE ALL NECESSARY WIRING, CONDUIT, RELAYS AND ANCILLARY COMPONENTS NEEDED FOR A COMPLETE SYSTEM.

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PROJ. MGR: DAN
DATE: JANUARY 26, 2018

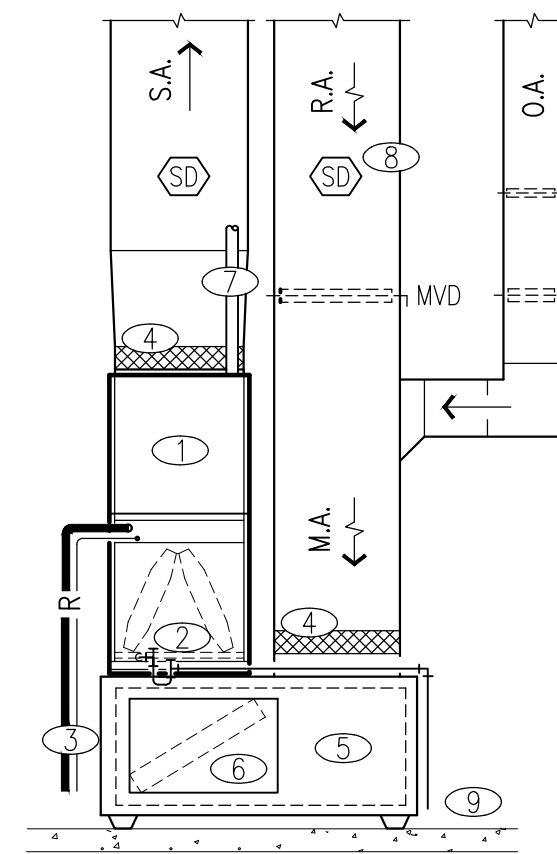
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HVAC PLAN

OLF-X
PHASE II - AIRFIELD

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M-201

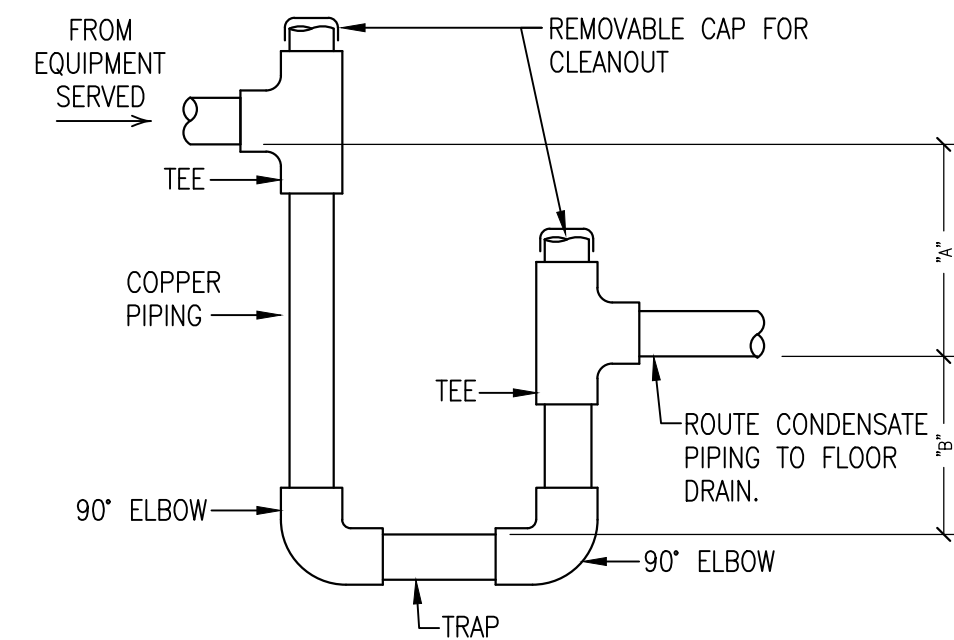


INSTALLATION DETAIL KEY NOTES:

- ① AIR HANDLING UNIT AND MATCHING HEAT PUMP COIL UNIT TO BE PROVIDED WITH ELECTRIC AUXILIARY HEATING COIL AND SINGLE POINT POWER CONNECTION. INSTALL UNIT IN ACCORDANCE TO MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. MAINTAIN CLEARANCE IN FRONT OF UNIT SUITABLE FOR REMOVAL OF AIR FILTERS.
- ② CONDENSATE PIPING, TRAP AT UNIT AS SHOWN ON 'CONDENSATE DRAIN DETAIL' AND ROUTE TO HUB DRAIN IN MECHANICAL CLOSET. COORDINATE LOCATION OF DRAIN WITH PLUMBING CONTRACTOR.
- ③ REFRIGERANT PIPING SET AND CONTROL WIRING, ROUTE TO CORRESPONDING OUTDOOR UNIT AS SHOWN ON HVAC PLANS. SEE 'GENERAL HVAC NOTES', ALSO SEE 'REFRIGERANT PIPE MOUNTING DETAIL'.
- ④ PLENUM SHALL HAVE TOP CONNECTION FOR RETURN AIR. PROVIDE FLEXIBLE DUCT CONNECTOR, TYPICAL OF SUPPLY AND RETURN DUCTS.
- ⑤ FOR VERTICAL AIR HANDLERS WITH A BOTTOM INTAKE AND TOP DISCHARGE AND A NOMINAL TONNAGE OF 4-TONS OR LESS A FACTORY FABRICATED PLENUM BY MCDANIELS METALS IS ACCEPTABLE. CONNECTION OF UNIT TO PLENUM SHALL BE AT FULL SIZE OF UNIT CONNECTION. PLENUM IS CONSTRUCTED WITH 1" THICK INSULATION AND HAS A MINIMUM FILTER SIZE OF 20X25. FIELD FABRICATED PLENUM SHALL BE EQUAL.
- ⑥ FILTER ACCESS DOOR - DO NOT BLOCK WITH CONDENSATE PIPING. DOOR SHALL BE REMOVABLE WITHOUT THE USE OF TOOLS.
- ⑦ APPROXIMATE LOCATION OF INCOMING ELECTRICAL SINGLE POINT POWER CONNECTION FOR FAN AND AUXILIARY ELECTRIC HEAT POWER.
- ⑧ INSTALL DUCT-MOUNTED SMOKE DETECTOR IN SUPPLY DUCT AND RETURN DUCT UPSTREAM OF OUTSIDE AIR DUCT CONNECTION. INSTALL SMOKE DETECTORS ON 2" RIGID BOARD INSULATION TO PREVENT CONDENSATION.
- ⑨ PROVIDE 1" NEOPRENE VIBRATION ISOLATION PADS UNDERNEATH PLENUM.
- ⑩ OUTSIDE AIR DAMPER SHALL BE LOW LEAKAGE TYPE WITH BLADE SEALS.

TYPICAL HEAT PUMP AIR HANDLER INSTALLATION DETAIL

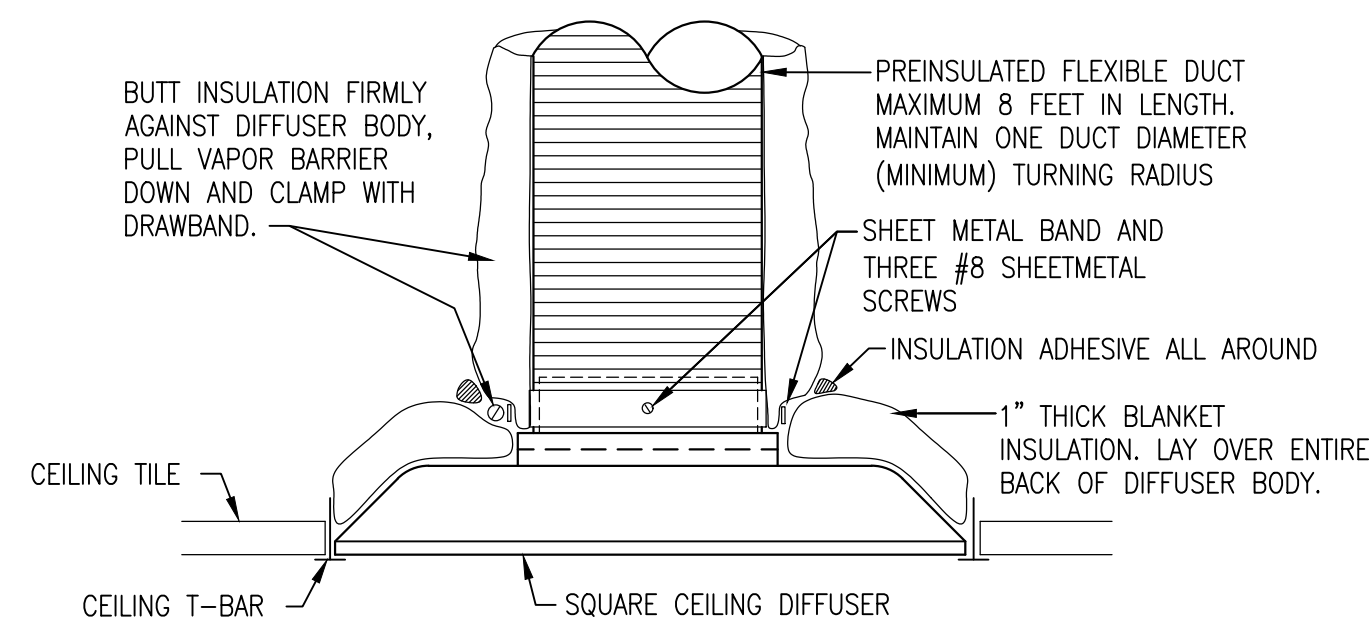
NOT TO SCALE



"A" = 0.5 X "B"
 "B" = INTERNAL STATIC PRESSURE + 1" MINIMUM.

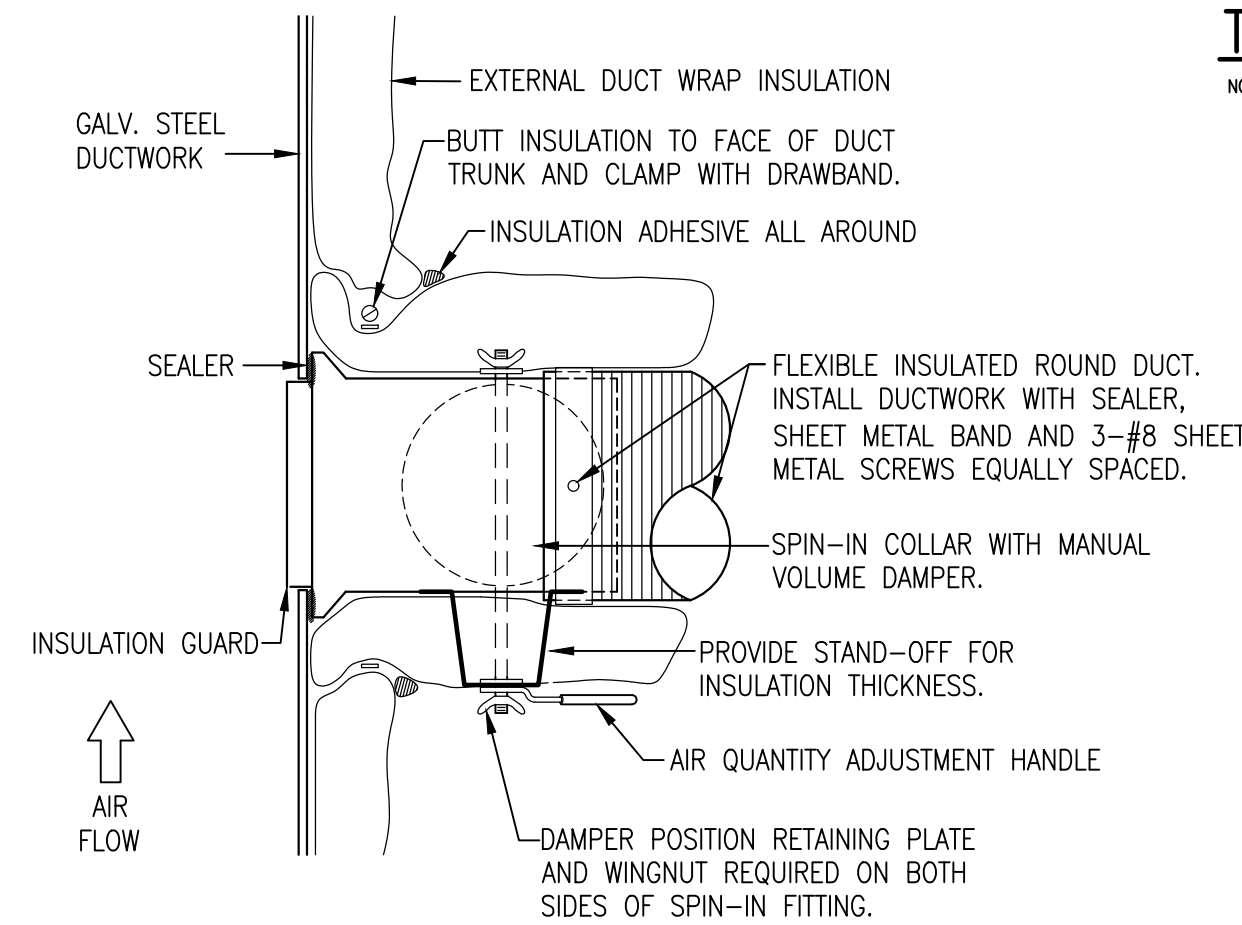
CONDENSATE DRAIN DETAIL

NOT TO SCALE



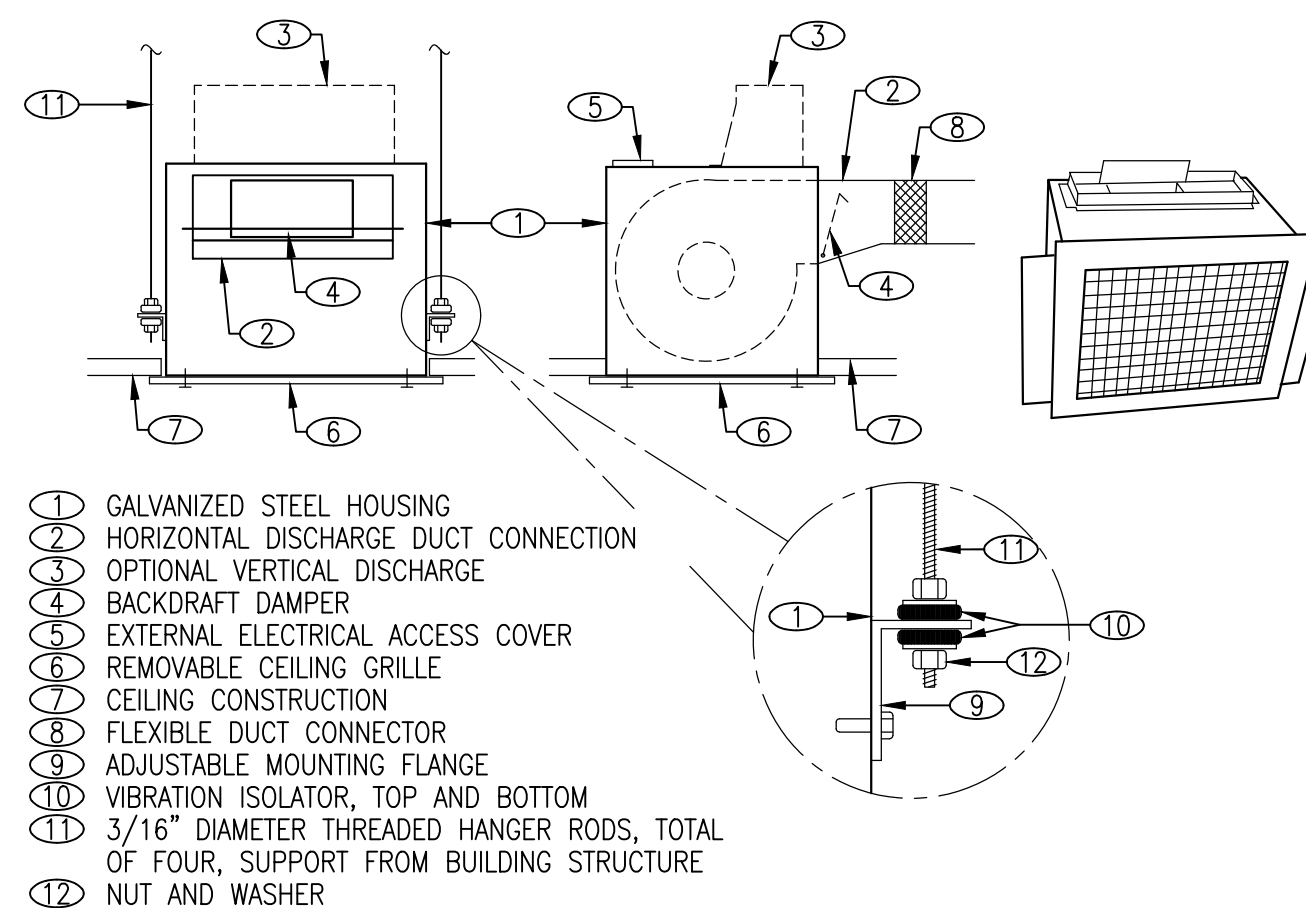
CEILING DIFFUSER INSTALLATION DETAIL

NOT TO SCALE



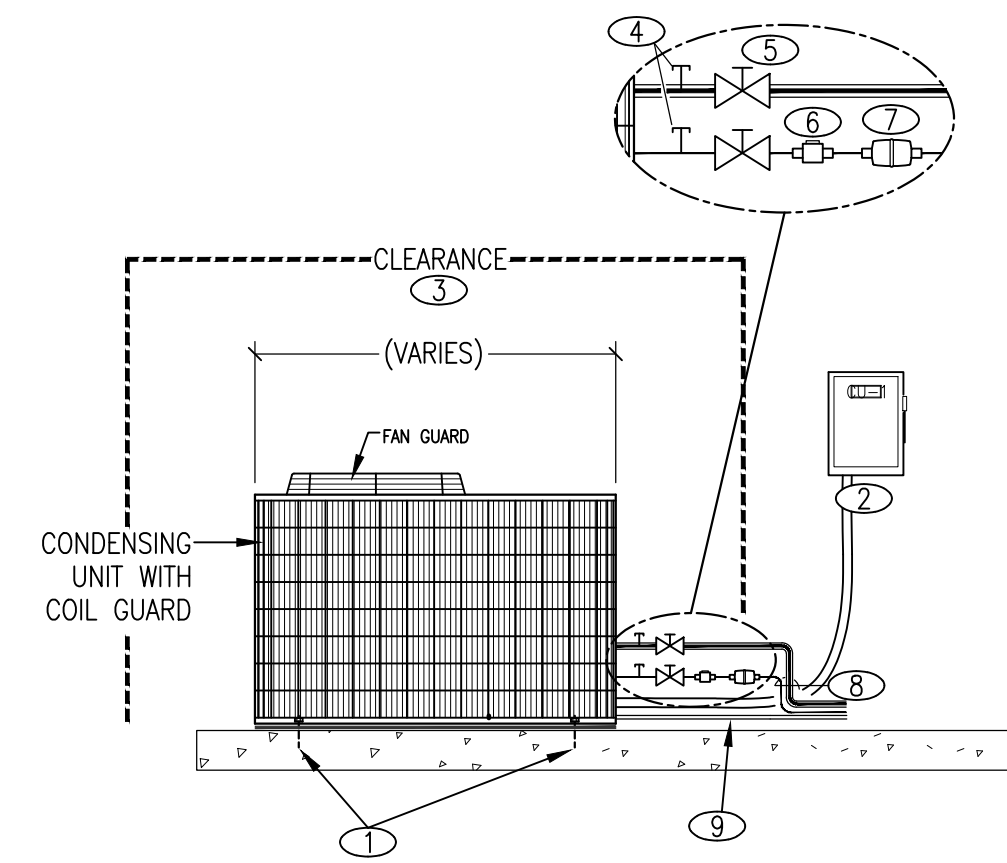
ROUND DUCT TAP-IN MOUNTING DETAIL

NOT TO SCALE



CEILING EXHAUST FAN INSTALLATION DETAIL

NOT TO SCALE

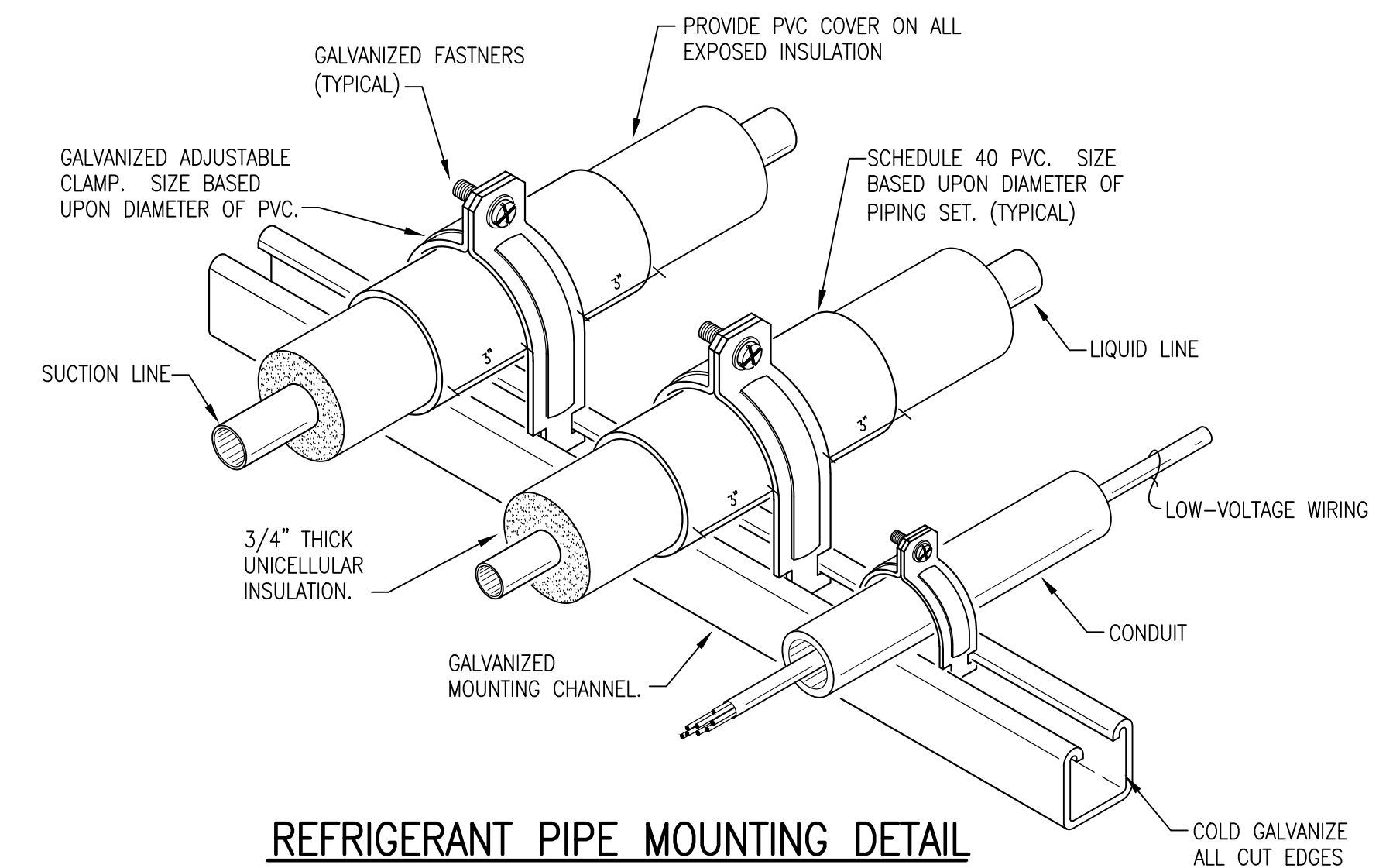


TYPICAL AIR-COOLED CONDENSING UNIT INSTALLATION DETAIL

NOT TO SCALE

INSTALLATION DETAIL KEY NOTES:

- ① CONDENSING UNITS SHALL BE SECURELY ANCHORED TO THE CONCRETE WITH 1/4" TAPCON SCREWS (MINIMUM 4) THRU THE BASE OF THE UNIT PER 2010 FLORIDA MECHANICAL CODE REQUIREMENTS.
- ② WEATHERPROOF DISCONNECT WITH LIQUID-TIGHT CONDUIT TO CONDENSING UNIT, SEE ELECTRICAL.
- ③ VERTICAL AND HORIZONTAL CLEARANCES SHALL COMPLY WITH MANUFACTURER'S RECOMMENDATIONS.
- ④ REFRIGERANT GAUGE CONNECTION, TYPICAL FOR LIQUID LINE AND SUCTION LINE.
- ⑤ BACK-SEATED REFRIGERANT SERVICE VALVE, TYPICAL FOR LIQUID LINE AND SUCTION LINE.
- ⑥ SIGHT-GLASS WITH VISIBLE MOISTURE INDICATOR, EQUAL TO SPORLAN MODEL 'SA'. SIGHT GLASS SHALL BE VISIBLE, DO NOT COVER INSULATION OR PROTECTIVE PIPE COVER.
- ⑦ SEALED FILTER-DRYER, EQUAL TO SPORLAN MODEL '020'.
- ⑧ REFRIGERANT LIQUID LINE AND REFRIGERANT SUCTION LINE. SUCTION LINE SHALL BE INSULATED AND JACKETED - SEE 'GENERAL HVAC NOTES'.
- ⑨ CONDENSING UNIT CONTROL CONDUIT FOR INTERLOCK WITH THERMOSTAT OR BUILDING CONTROLS.



REFRIGERANT PIPE MOUNTING DETAIL

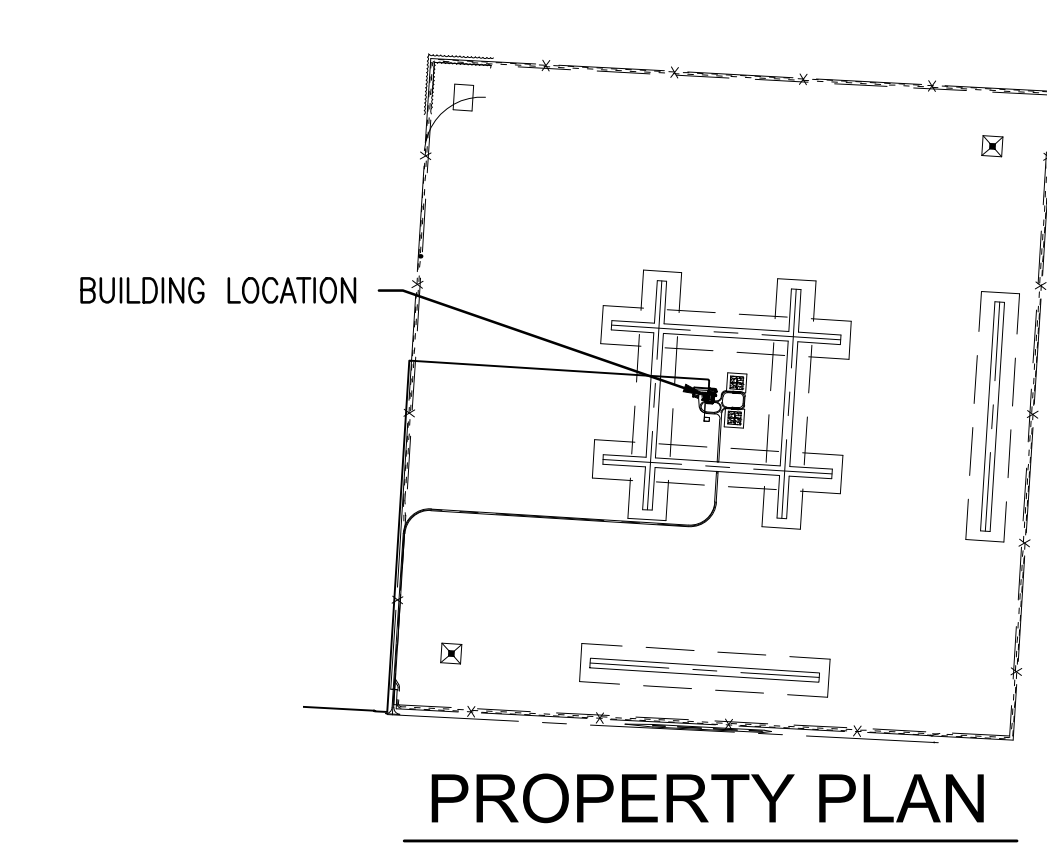
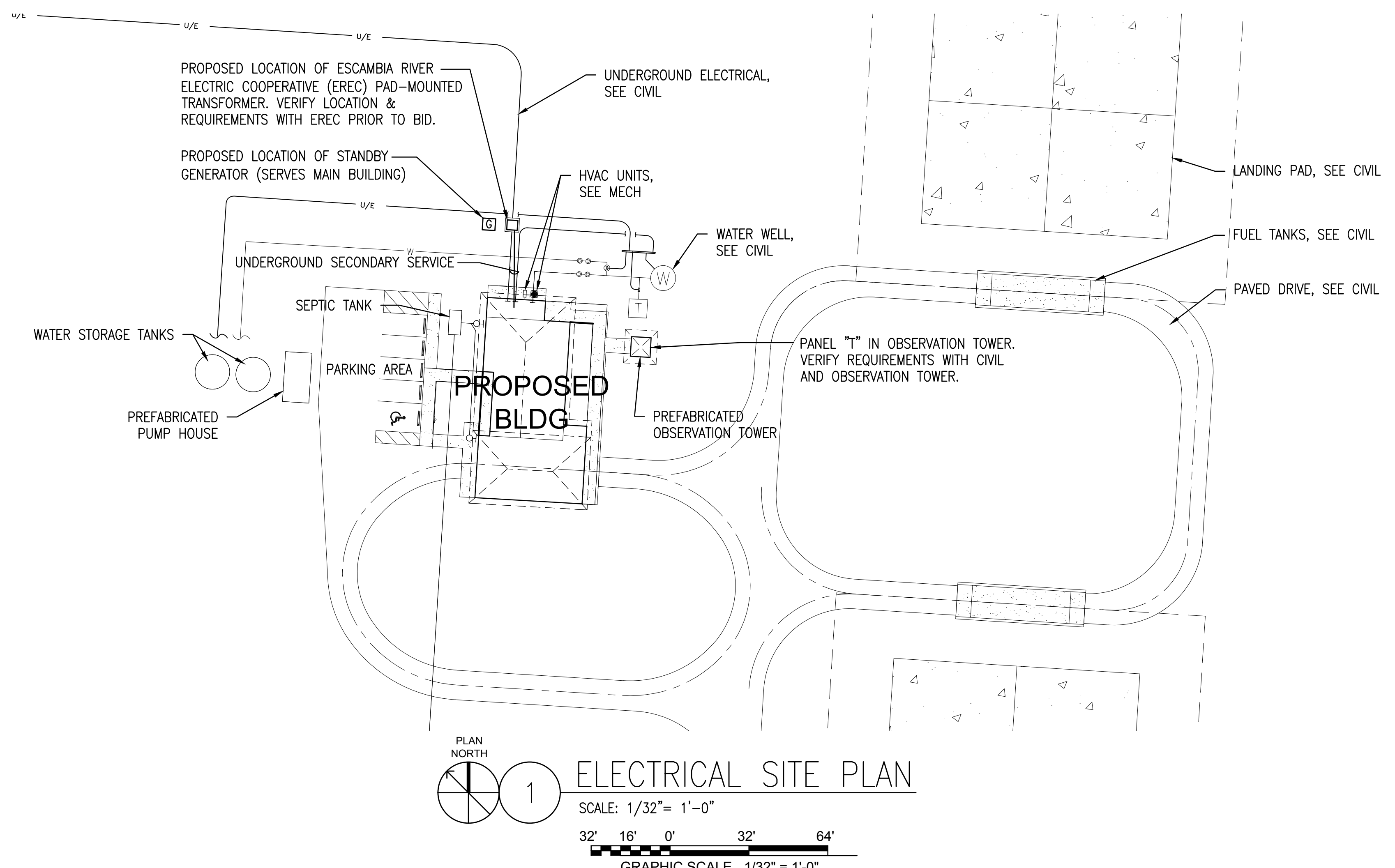
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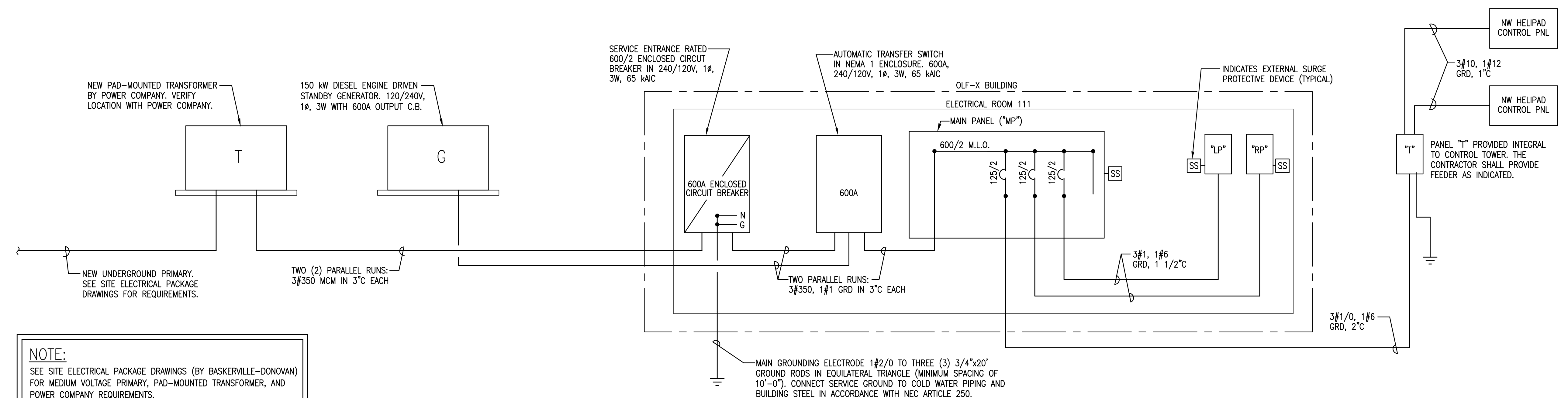
PROJECT NO:	25898.03
DESIGNED BY:	DAN
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CHK'D BY:	DAN
PROJ. MGR:	DAN
DATE:	JANUARY 26, 2018

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GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING NEW WORK
2. THE CONTRACTOR SHALL COORDINATE ALL UTILITY CONNECTIONS WITH PLUMBING, ELECTRICAL AND COMMUNICATION.
3. CONTRACTOR SHALL COORDINATE WITH OWNER EXACT LOCATION OF OBSERVATION TOWER.
4. REFER TO CIVIL ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION ON SITE WORK RELATED ACTIVITIES.
5. SOD ALL DISTURBED AREAS AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT. REFER TO CIVIL DRAWINGS AND SPECIFICATION FOR ADDITIONAL INFORMATION.
6. REFER TO SHEET A-220 FOR ADDITIONAL INFORMATION ON OBSERVATION TOWER.



NOTE:
SEE SITE ELECTRICAL PACKAGE DRAWINGS (BY BASKERVILLE-DONOVAN) FOR MEDIUM VOLTAGE PRIMARY, PAD-MOUNTED TRANSFORMER, AND POWER COMPANY REQUIREMENTS.

POWER RISER DIAGRAM

NOT TO SCALE

SCOTT A. ADAMS, P.E.

OLF-X
PHASE II - AIRFIELD

NO.	DATE	APPR.	REVISION/ACTION TAKEN

PROJECT NO: 25898.03
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PROJ. MGR: -
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SITE PLAN
ELECTRICAL

E-001

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120/240 VOLT, 1Ø, 3W 600 AMP MAIN BREAKER											
CIRCUIT BREAKER PANEL SCHEDULE PANEL "MP" SURFACE MOUNTED											
CKT	LOAD DESCRIPTION	BREAKER		LOAD KVA		BREAKER		LOAD DESCRIPTION	CKT		
		POLE	AMP			AMP	POLE				
1	AHU-1	①	2	60	11.83	5.10	50	2	HP-1	①	2
3											4
5	PANEL LP		2	125	24.46	14.66	125	2	PANEL PP		6
7											8
9	AC-1/AH-1	①	2	15	2.16	4.50	30	2	EW-1	②	10
11											12
13	UH-1	②	2	30	5.00	5.00	30	2	UH-3	②	14
15											16
17	UH-2	②	2	30	5.00	5.00	30	2	UH-4	②	18
19											20
21	CCR #1		2	30	4.00	5.00	30	2	UH-5	②	22
23											24
25	CCR #2		2	30	4.00	5.00	30	2	UH-6	②	26
27											28
29	PANEL T		2	125	14.40		20	1	SPARE		30
31											32
33	SPARE		2	20			20	1	SPACE		34
35											36

TOTAL CONNECTED LOAD: 115.11 KVA
MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL

① PROVIDE HACR TYPE CIRCUIT BREAKER. FIELD VERIFY SIZE & RATING WITH EQUIPMENT PROVIDED.
② FIELD VERIFY SIZE & RATING WITH EQUIPMENT PROVIDED.

120/240 VOLT, 1Ø, 3W 225 AMP M.L.O.										
CIRCUIT BREAKER PANEL SCHEDULE PANEL "LP" SURFACE MOUNTED										
CKT	LOAD DESCRIPTION	BREAKER		LOAD KVA		BREAKER		LOAD DESCRIPTION	CKT	
		POLE	AMP			AMP	POLE			
1	LIGHTS - APPARATUS BAY		1	20	1.19	0.72	20	1	RECEPTS - OFFICE 103	2
3	- DAY ROOM/OFFICES				0.98	0.90			- OFFICE 104	4
5	- REC RM/TLTS/ELECT				1.25	0.54			- CORRIDOR	6
7	- OUTSIDE	①			0.66	0.36			- MENS/WOMENS TLTS	8
9	REFRIGERATOR				1.20	0.60			- E.W.C.	10
11	RECEPTS - KITCHEN COUNTER				0.36	0.36			- IT ROOM	12
13	RANGE HOOD FAN				0.60	0.36			- IT ROOM	14
15	MICROWAVE				1.00	0.36			- IT ROOM	16
17	RECEPTS - KITCHEN CTR/ISLAND				0.36	0.54			- ELECT/JAN/OUTSIDE	18
19	DISHWASHER				1.20	0.36			- REC ROOM	20
21	RANGE		2	50	8.00	0.54			- REC ROOM	22
23						0.54			- REC ROOM	24
25	RECEPTS - DAY ROOM		1	20	0.54	0.40			- FACP	26
27	- DAY ROOM				0.54				SPARE	28
29	SPARE									30
31										32
33										34
35	SPACE								SPACE	36
37										38
39										40
41										42

TOTAL CONNECTED LOAD: 24.46 KVA
MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL

① SWITCH THROUGH LIGHTING CONTACTOR LCA.

120/240 VOLT, 1Ø, 3W 225 AMP M.L.O.										
CIRCUIT BREAKER PANEL SCHEDULE PANEL "PP" SURFACE MOUNTED										
CKT	LOAD DESCRIPTION	BREAKER		LOAD KVA		BREAKER		LOAD DESCRIPTION	CKT	
		POLE	AMP			AMP	POLE			
1	RECEPTS - APPARATUS BAY EAST		1	20	0.54	0.54	20	1	RECEPTS - APPARATUS BAY WEST	2
3	- APPARATUS BAY EAST				0.36	0.36			- APPARATUS BAY WEST	4
5	- APPARATUS BAY EAST				0.36	0.36			- APPARATUS BAY WEST	6
7	- CORD REEL - NORTH				0.18	0.18			- CORD REEL - SOUTH	8
9	230V/1Ø, 3ØA RECEPT - EAST		2	30	3.75	3.75	30	2	230V/1Ø, 3ØA RECEPT - WEST	10
11										12
13	OVERHEAD DOOR - NORTH		1	20	1.18	1.18	20	1	OVERHEAD DOOR - SOUTH	14
15	SPARE				1.92	25	1		EXHAUST FAN EF-5	16
17							20	1	SPARE	18
19										20
21										22
23	SPACE								SPACE	24
25										26
27										28
29										30

TOTAL CONNECTED LOAD: 14.66 KVA
MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL

ELECTRICAL LEGEND

- CEILING MOUNTED FLUORESCENT LIGHTING FIXTURE
- CEILING MOUNTED FLUORESCENT LIGHTING FIXTURE CONNECTED TO EMERGENCY CIRCUIT OR WITH EMERGENCY BATTERY BACKUP
- WALL MOUNTED FLUORESCENT LIGHTING FIXTURE
- STRIP FLUORESCENT LIGHTING FIXTURE
- STRIP FLUORESCENT LIGHTING FIXTURE CONNECTED TO EMERGENCY CIRCUIT OR WITH EMERGENCY BATTERY BACKUP
- RECESSED CEILING MOUNTED COMPACT FLUORESCENT LIGHTING FIXTURE
- RECESSED CEILING MOUNTED COMPACT FLUORESCENT LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP
- WALL BRACKET HID OR COMPACT FLUORESCENT LIGHTING FIXTURE
- EXIT LIGHT
- SINGLE POLE LIGHTING SWITCH, MOUNT 48" AFF
- THREE-WAY LIGHTING SWITCH
- OCCUPANCY SENSOR LIGHTING SWITCH
- MOTOR RATED TOGGLE SWITCH DISCONNECT
- CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR
- DUAL VOLTAGE POWER PACK MOUNTED ABOVE CEILING IN NEMA 1 ENCLOSURE. POWER PACK SHALL BE HUBBELL No. UVPP OR APPROVED EQUAL. PROVIDE WIRING IN CONDUIT FROM POWER PACK TO ALL SENSORS IN SAME ROOM PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ACCESS PANELS IN AREAS WITH HARD CEILING TYPES. MOUNT IN NEMA 1 ENCLOSURE ABOVE CEILING. LABEL ENCLOSURE WITH CIRCUIT NUMBER.
- DUPLEX RECEPTACLE, MOUNT 18" AFF UNLESS NOTED OTHERWISE. VERIFY DUPLEX MOUNTING REQUIREMENTS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. SUBSCRIPT INDICATES AS FOLLOWS: G - GROUND FAULT CIRCUIT INTERRUPTER TYPE
- DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER. VERIFY COUNTER HEIGHT PRIOR TO ROUGH-IN. ORIENT WITH LONG AXIS HORIZONTAL ABOVE COUNTERS
- GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE MOUNTED ABOVE COUNTER. VERIFY COUNTER HEIGHT PRIOR TO ROUGH-IN. ORIENT WITH LONG AXIS HORIZONTAL ABOVE COUNTERS
- QUADRAPLEX RECEPTACLE
- JUNCTION BOX
- MOTOR
- NON-FUSED DISCONNECT SWITCH
- TELEVISION OUTLET MOUNTED AS NOTED
- PANELBOARD
- MAIN PANELBOARD
- PUBLIC ADDRESS SYSTEM MASTER STATION (AMPLIFIER/MIXER)
- PUBLIC ADDRESS SYSTEM CEILING MOUNTED RECESSED SPEAKER WITH VOLUME CONTROL
- PUBLIC ADDRESS SYSTEM WALL MOUNTED RECESSED SPEAKER WITH VOLUME CONTROL
- WEATHERPROOF PUBLIC ADDRESS SYSTEM CEILING MOUNTED RECESSED SPEAKER
- WALL MOUNTED JUNCTION BOX FOR GFGI CLOSED CIRCUIT TV CAMERA. PROVIDE 3/4" C TO COMM ROOM.
- WALL MOUNTED JUNCTION BOX FOR GFGI ELECTRONIC SECURITY SYSTEM (ESS) KEYPAD. PROVIDE 3/4" C TO COMM ROOM.
- WALL MOUNTED JUNCTION BOX FOR GFGI ELECTRONIC SECURITY SYSTEM (ESS) CARD READER. PROVIDE 3/4" C TO COMM ROOM.
- AUTOMATIC TRANSFER SWITCH
- ENCLOSED CIRCUIT BREAKER
- AFF ABOVE FINISHED FLOOR
- EWC ELECTRIC WATER COOLER
- MW MICROWAVE
- DW DISHWASHER
- CONDUIT RUN ABOVE CEILING OR IN WALLS
- CIRCUIT RUN IN OR BELOW SLAB OR UNDERGROUND
- HOMERUN TO PANELBOARD ANY CIRCUIT WITHOUT FURTHER DESIGNATION 2"Ø, 1"Ø, 1/2"Ø, 3/4"Ø, 1"Ø, 1/2"Ø ETC.
- CONDUIT RUN EXPOSED PARALLEL OR PERPENDICULAR TO BUILDING LINES

NOTE:
SEE FIRE PROTECTION DRAWINGS FOR FIRE DETECTION AND ALARM SYSTEM DESIGN AND REQUIREMENTS.

LIGHTING FIXTURE SCHEDULE					
MARK	MANUFACTURER AND CATALOG No.	LAMPS		MOUNTING	REMARKS
		No.	TYPE		
FS	NOMINAL 4' 2-LAMP INDUSTRIAL FLUORESCENT STRIP WITH WIREGUARD	2	F32 T8	SURFACE	120 VOLT
FSE	NOMINAL 4' 2-LAMP INDUSTRIAL FLUORESCENT STRIP WITH WIREGUARD AND EMERGENCY BATTERY PACK	2	F32 T8	SURFACE	120 VOLT
FS8	NOMINAL 8' 4-LAMP INDUSTRIAL FLUORESCENT STRIP WITH WIREGUARD	4	F32 T8	PENDANT	120 VOLT
FS8E	NOMINAL 8' 4-LAMP INDUSTRIAL FLUORESCENT STRIP WITH WIREGUARD AND EMERGENCY BATTERY PACK	4	F32 T8	PENDANT	120 VOLT
FT2	NOMINAL 2'X4' 2-LAMP ACRYLIC LENSED RECESSED TROFFER	2	F32 T8	RECESSED	120 VOLT
FT2E	NOMINAL 2'X4' 2-LAMP ACRYLIC LENSED RECESSED TROFFER WITH EMERGENCY BATTERY PACK	2	F32 T8	RECESSED	120 VOLT
FT3	NOMINAL 2'X4' 3-LAMP ACRYLIC LENSED RECESSED TROFFER	3	F32 T8	RECESSED	120 VOLT
FT3E	NOMINAL 2'X4' 3-LAMP ACRYLIC LENSED RECESSED TROFFER WITH EMERGENCY BATTERY PACK	3	F32 T8	RECESSED	120 VOLT
FW2	2' FLUORESCENT LIGHT MOUNTED OVER VANITY	2	F17 T8	WALL	120 VOLT
FW4	4' FLUORESCENT LIGHT MOUNTED OVER VANITY	2	F32 T8	WALL	120 VOLT
RL	RECESSED COMPACT FLUORESCENT DOWNLIGHT	2	18W CFL	RECESSED	120 VOLT
RLC	RECESSED COMPACT FLUORESCENT DOWNLIGHT WITH EMERGENCY BATTERY PACK	2	18W CFL	RECESSED	120 VOLT
RLW	RECESSED COMPACT FLUORESCENT DOWNLIGHT IN WEATHERPROOF HOUSING	2	18W CFL	RECESSED	120 VOLT
RLWE	RECESSED COMPACT FLUORESCENT DOWNLIGHT IN WEATHERPROOF HOUSING WITH EMERGENCY BATTERY PACK	2	18W CFL	RECESSED	120 VOLT
SL	RECESSED COMPACT FLUORESCENT DOWNLIGHT WITH SHOWER DROP LENS	2	18W CFL	RECESSED	120 VOLT
WB	METAL HALIDE WALL PACK	1	70W MH	WALL	120 VOLT
WBE	METAL HALIDE WALL PACK WITH EMERGENCY BATTERY PACK	1	70W MH	WALL	120 VOLT
WBA	METAL HALIDE WALL PACK	1	175W MH	WALL	120 VOLT
⊗	LED EXIT LIGHT WITH EMERGENCY BATTERY PACK		LED	CEILING/WALL	120 VOLT

NOTE: SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER 14 DAYS PRIOR TO BID FOR WRITTEN APPROVAL AS EQUAL.

BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions
449 W. MAIN ST., PENSACOLA, FL 32502 (850) 438-9661
ENGINEERING BUSINESS: EB-0000340
Pensacola - Panama City Beach - Tallahassee - Mobile - Brevard County - Tampa
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OLF-X
PHASE II - AIRFIELD

PROJECT NO:	DESIGNED BY:	DRAWN BY:	CHK'D BY:	PROJ. MGR.:	DATE:
25898.03	SAA	DAH	SAA	-	JANUARY 2018

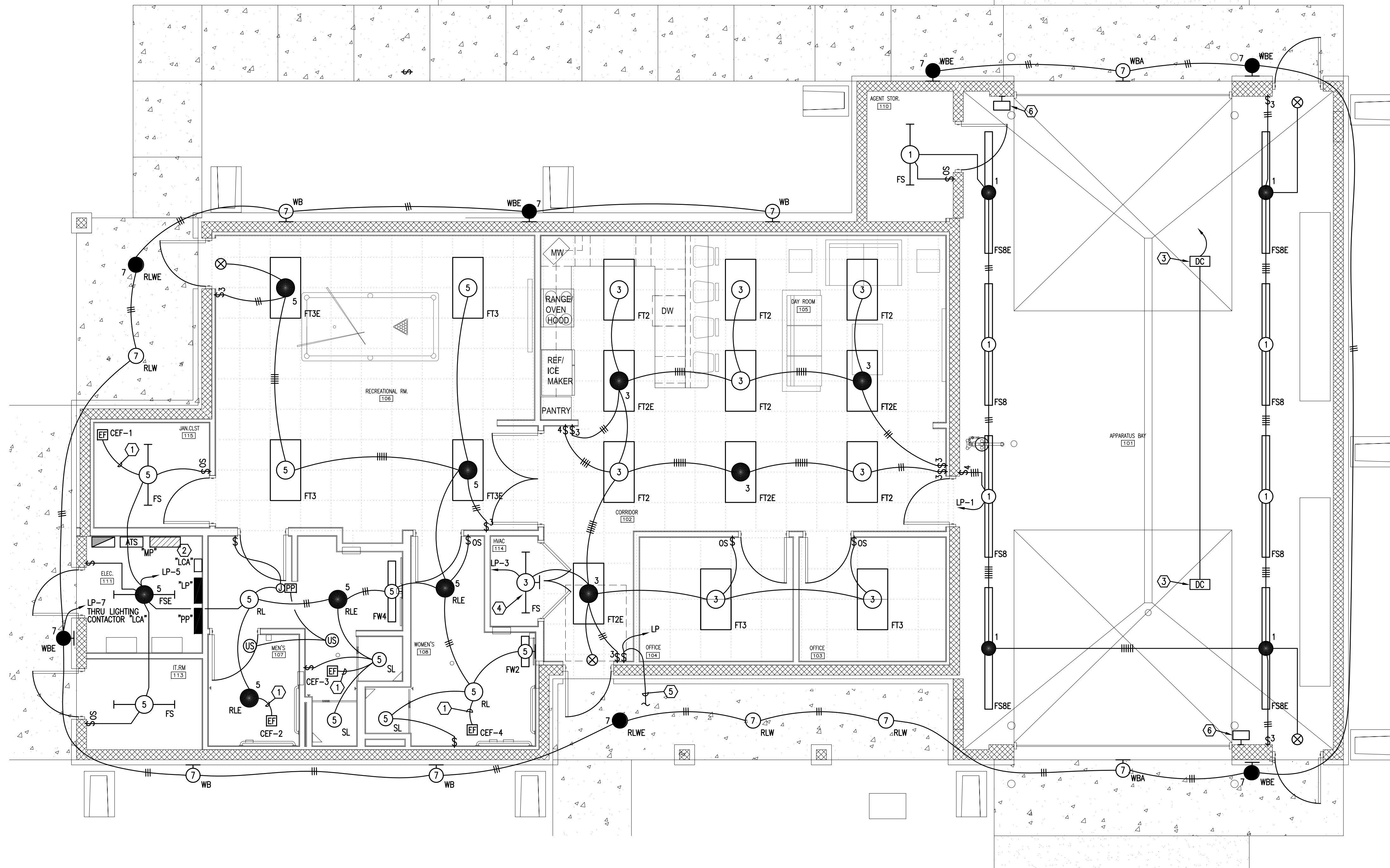
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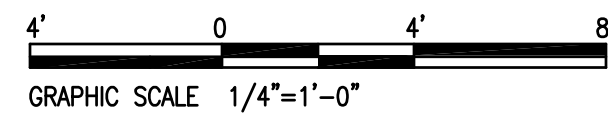
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ELECTRICAL LEGEND AND SCHEDULES
E-100

ACEI ADAMS CONSULTING ENGINEERING, INC.
3 West Garden Street • Suite 608 • Pensacola, Florida 32502
Office: 850-444-0095 • Fax: 850-444-0096 • E-mail: scott@adamscel.com
SCOTT A. ADAMS, P.E. FL LICENSE No. 57949 • CA No. 26311

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1 LIGHTING PLAN
SCALE: 1/4" = 1'-0"



KEY NOTES

- 1 INTERLOCK EXHAUST FAN WITH LIGHT SWITCH.
- 2 LIGHTING CONTACTOR LCA. LCA SHALL CONTROL OUTSIDE LIGHTING CIRCUIT VIA TIME CLOCK/PHOTOCELL INPUT. LIGHTING SHALL TURN "ON" AT DUSK AND TURN "OFF" AT DAWN. PROVIDE MANUAL OVERRIDE SWITCH. COORDINATE LOCATION OF MANUAL SWITCH WITH END USER.
- 3 OVERHEAD RETRACTABLE LIGHT ON DROP CORD REEL. FIELD COORDINATE LOCATION WITH END USER.
- 4 MOUNT FIXTURE ON WALL ABOVE DOOR.
- 5 PROVIDE HOMERUN CIRCUIT TO SWITCH AND THEN UNDERGROUND CIRCUIT TO PARKING LOT LIGHTING POLE. SEE SITE ELECTRICAL PACKAGE DRAWING FOR EXACT LIGHT POLE LOCATION AND REQUIREMENTS.
- 6 PROVIDE "RED/GREEN" INDICATING LIGHT TO INDICATE WHEN BAY DOOR IS FULLY RAISED. PROVIDE CONNECTION TO DOOR CONTROLS PER MANUFACTURER'S SPECIFICATIONS. MOUNT ON DRIVER'S SIDE AT 72" A.F.F.

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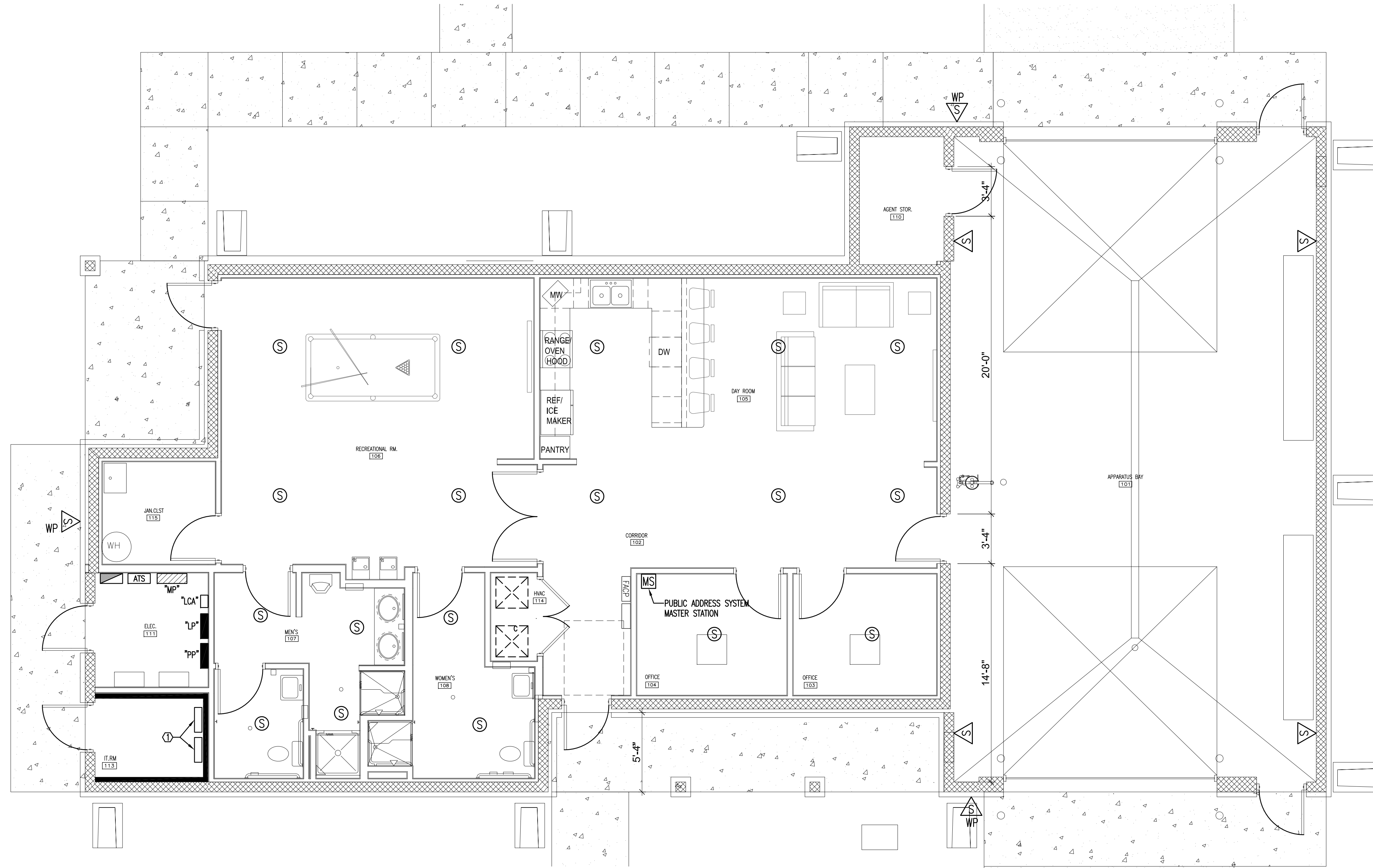
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CHK'D BY:	SAA
PROJ. MGR:	-
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CHK'D BY:	SAA
PROJ. MGR:	-
DATE:	JANUARY 2018



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1 AUXILIARY SYSTEMS PLAN
 SCALE: 1/4" = 1'-0"
 GRAPHIC SCALE 1/4" = 1'-0"

KEY NOTES

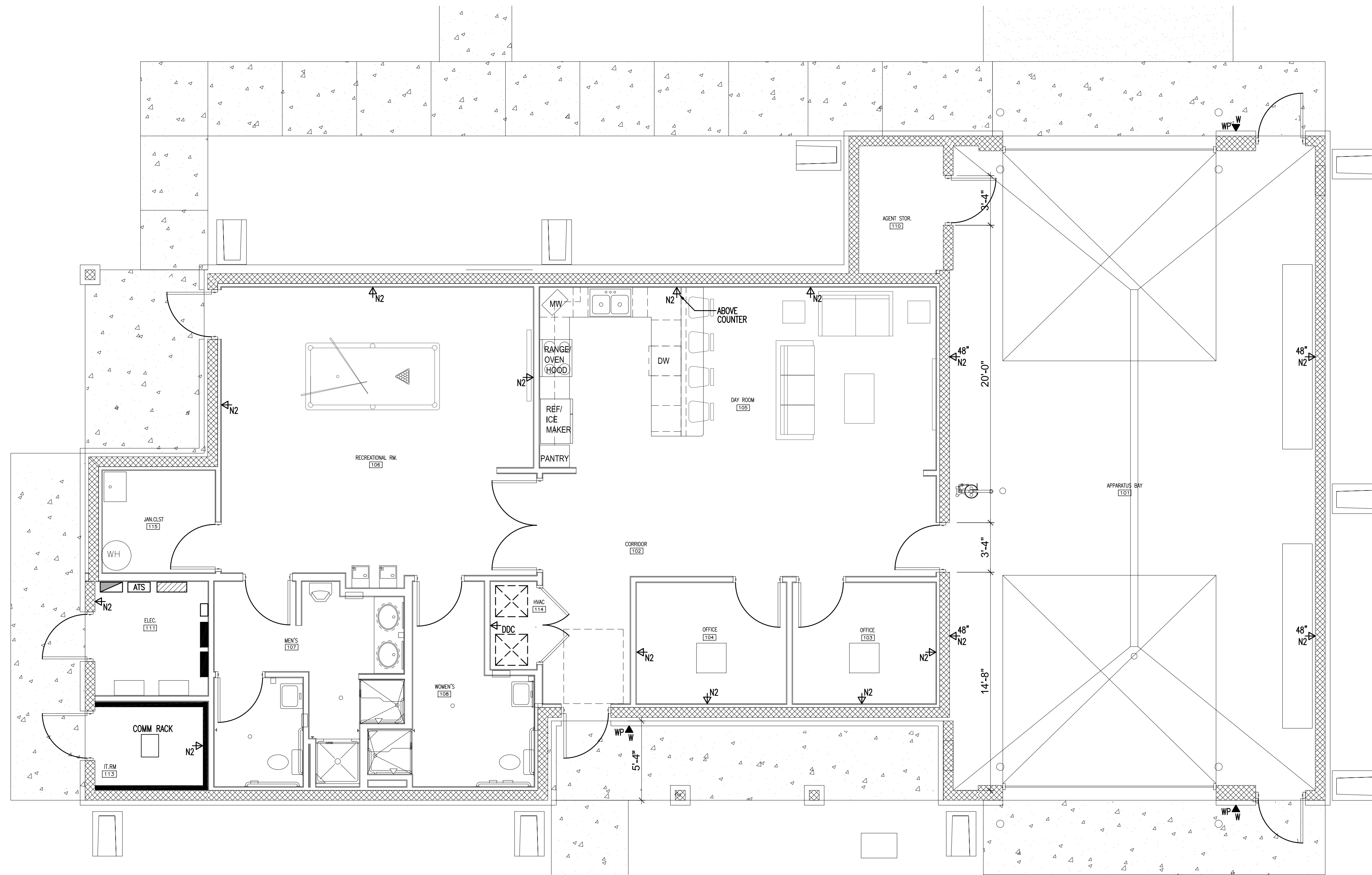
- ① ROUTE ESS, IDS AND CCTV SYSTEM CONDUIT TO THIS LOCATION.

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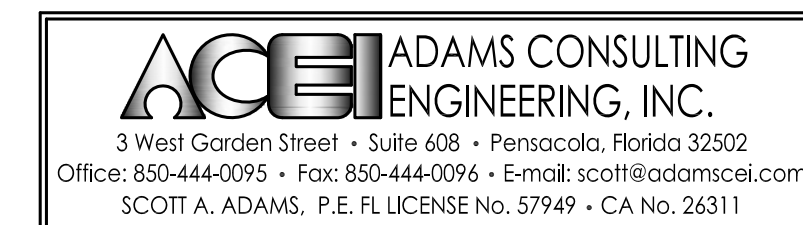
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1 TELECOMMUNICATIONS SYSTEM PLAN
 SCALE: 1/4" = 1'-0"
 GRAPHIC SCALE 1/4" = 1'-0"

TELECOMMUNICATIONS INFRASTRUCTURE CABLING SYSTEM LEGEND										
SYMBOL	DESCRIPTION	# OF CAT 6 CABLES/JACKS	# OF RG-6 COAX AND OUTLET	NOTES	PROVIDE 1-GANG BACKBOX	PROVIDE 2-GANG BACKBOX	PROVIDE 1-GANG PLASTER RING	PROVIDE 2-GANG PLASTER RING	PROVIDE (QTY/x") CONDUIT	NOTES
◀DDC	DDC NETWORK CONNECTION	(2)	---	PROVIDE TWO CAT6 CABLES TO LOCATION.		✓	✓		(1)/1". FOR COMM. CABLES.	HOMERUN 3/4" CONDUIT FROM OUTLET TO SERVING CLOSET. IN MECHANICAL ROOM, RUN CONDUIT TO FINAL LOCATION AS DIRECTED BY EQUIPMENT INSTALLER.
◀W	WALL-MOUNTED TELEPHONE OUTLET, MOUNTED 48" AFF	(1)	---	FOR EXTERIOR OUTLET LABELED "WP", PROVIDE WEATHERPROOF ENCLOSURE	✓		✓		(1)/3/4". FOR COMM. CABLES.	SEE MOUNTING DETAIL. COORDINATE EXACT MOUNTING HEIGHT AND ELEVATION WITH ARCHITECTURAL ELEVATIONS AND PLANS.
◀N2	WALL MOUNTED COMMUNICATIONS OUTLET (CO), TYPE 'N2'.	(2)	---	RJ-45 JACKS WITH 568A CONFIGURATION. CAT 6 UTP CABLE		✓	✓		(1)/1". FOR COMM. CABLES.	SEE MOUNTING DETAIL.



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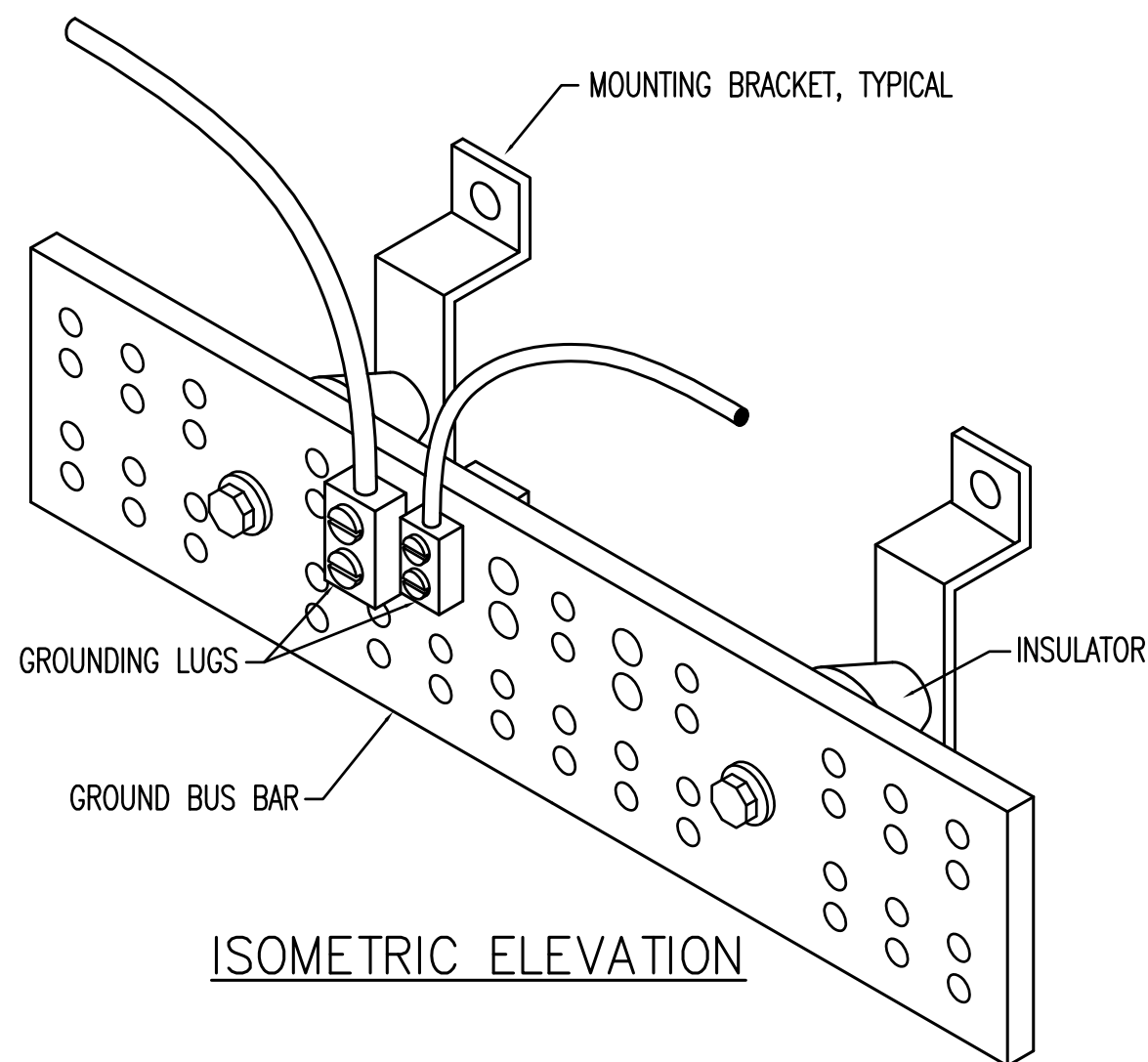
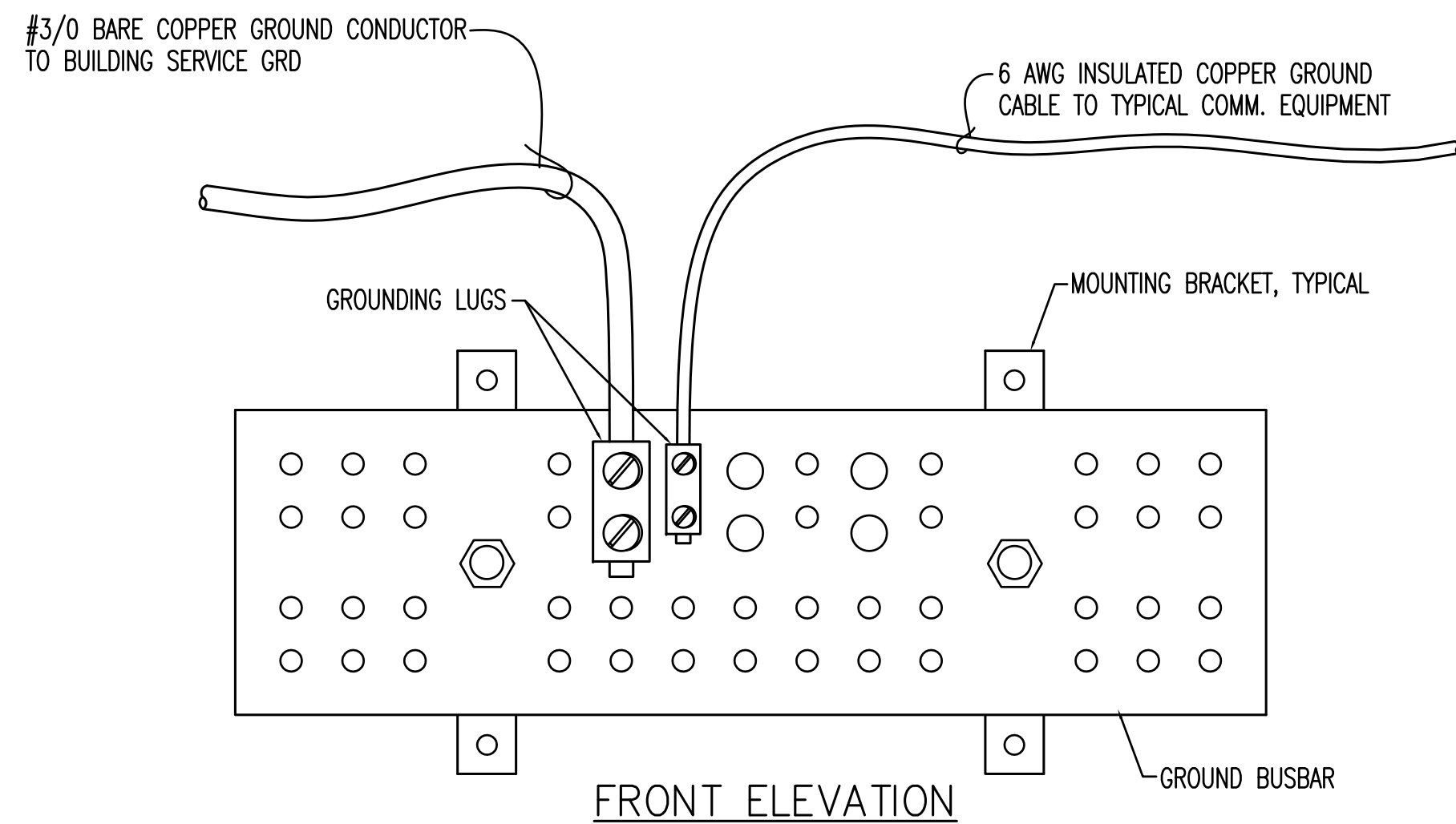
TELECOMMUNICATIONS SYSTEM PLAN

T-101

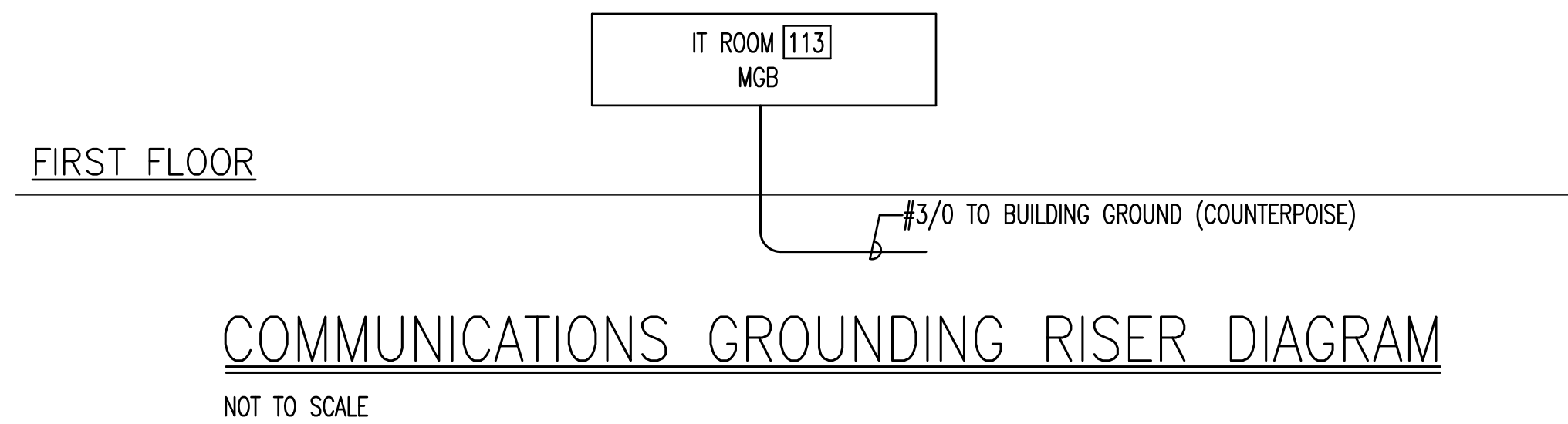
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25898.03	SAA	DAH	SAA	-	JANUARY 2018				

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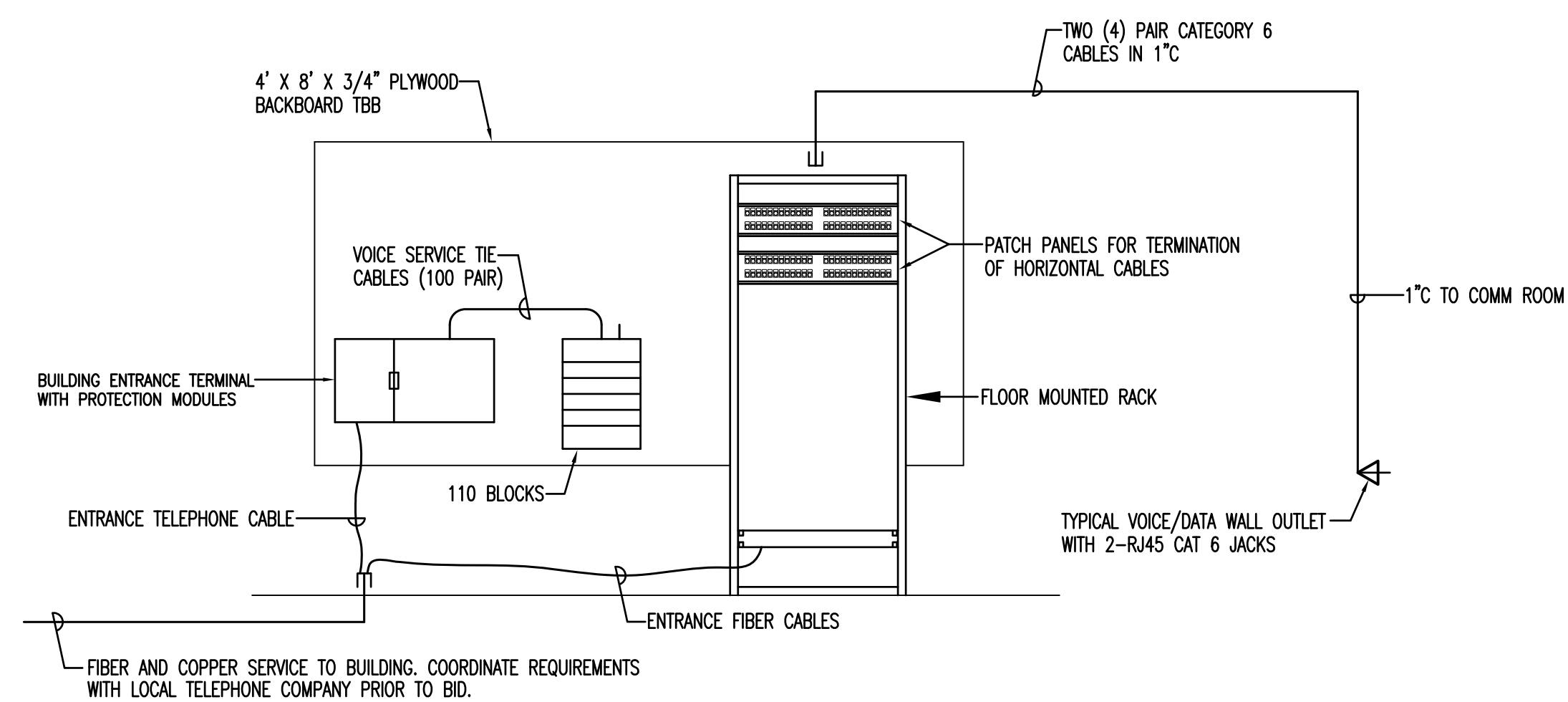
BASKERVILLE-DONOVAN, INC.
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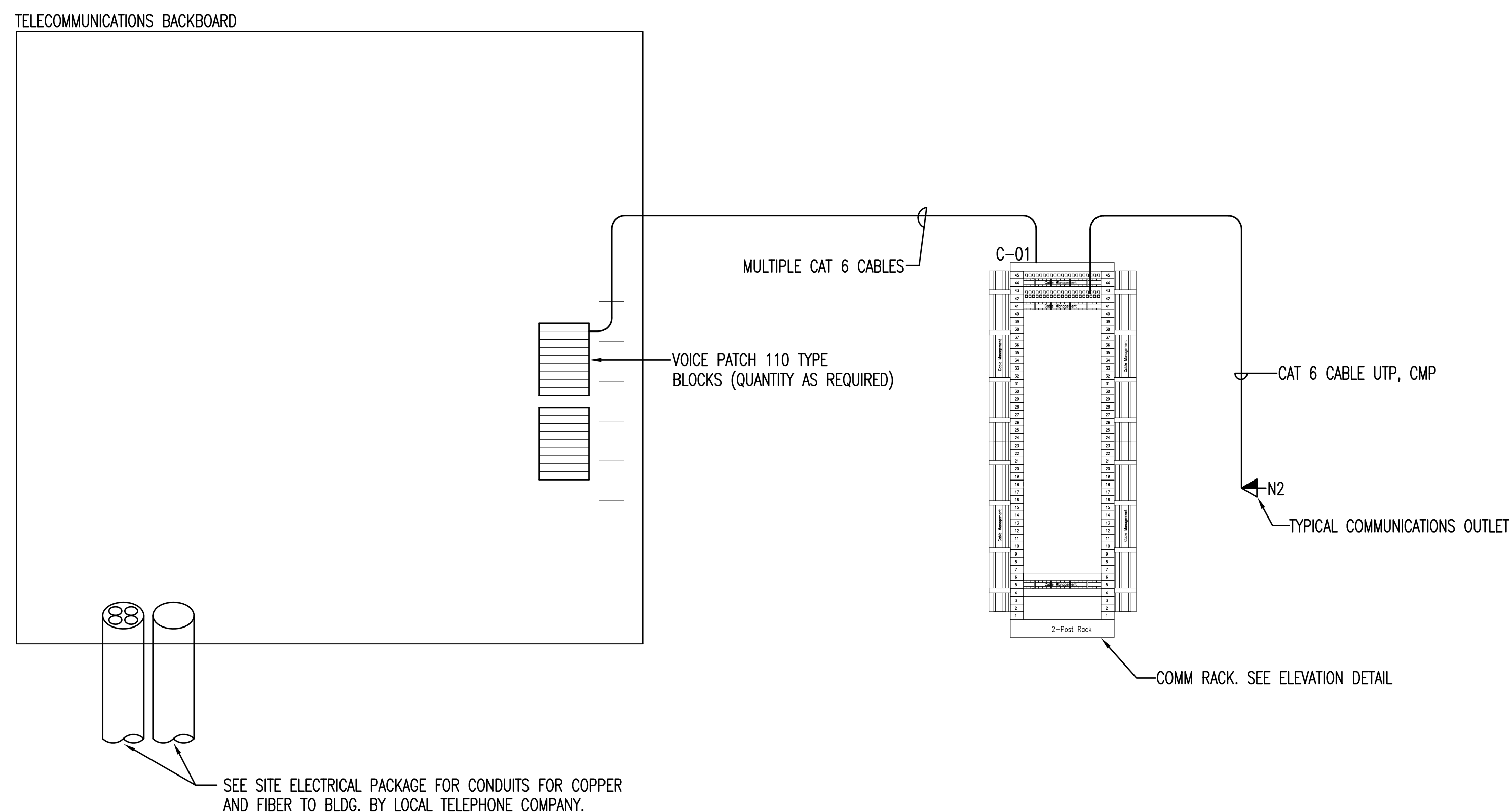
GROUND BAR DETAIL
NOT TO SCALE



NOT TO SCALE

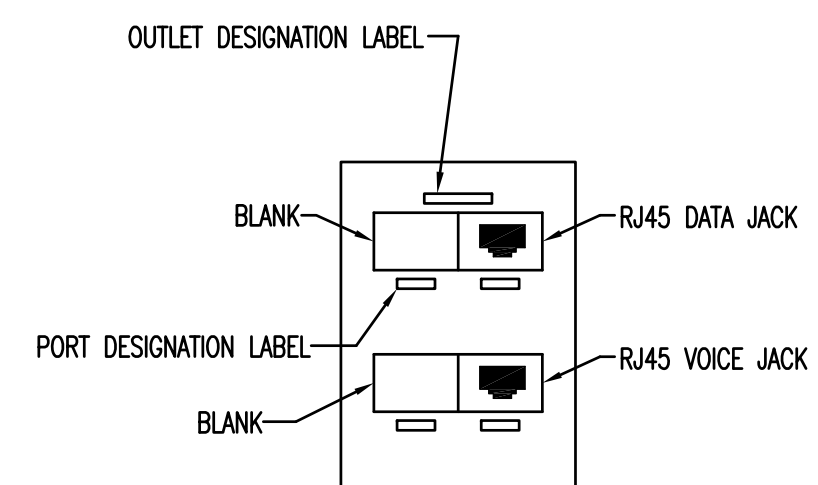


TELE/COMMUNICATIONS SYSTEM RISER DIAGRAM
NOT TO SCALE



SEE SITE ELECTRICAL PACKAGE FOR CONDUITS FOR COPPER AND FIBER TO BLDG. BY LOCAL TELEPHONE COMPANY.

COMMUNICATIONS SYSTEM SINGLE LINE DIAGRAM
NOT TO SCALE



TYPICAL TELE/ DATA OUTLET DETAIL (WORKSTATION OUTLET)
NOT TO SCALE PLAN SYMBOL ← N2

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PROJECT NO: 25898.03	DESIGNED BY: SAA	DATE: JANUARY 2018
DRAWN BY: DAH	CHK'D BY: SAA	
PROJ. MGR: -		

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TELECOMMUNICATIONS
RISERS & DETAILS

T-102

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