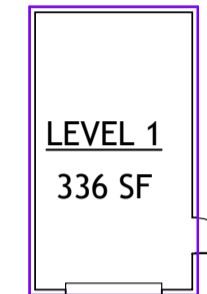
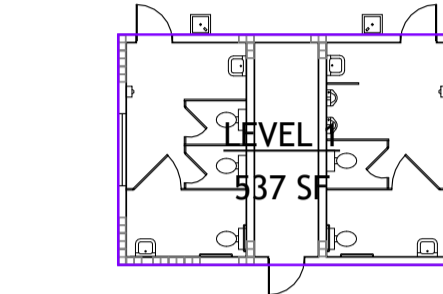


1 BUILDING A
1/16" = 1'-0"



2 BUILDING B
1/16" = 1'-0"



3 BUILDING C
1/16" = 1'-0"

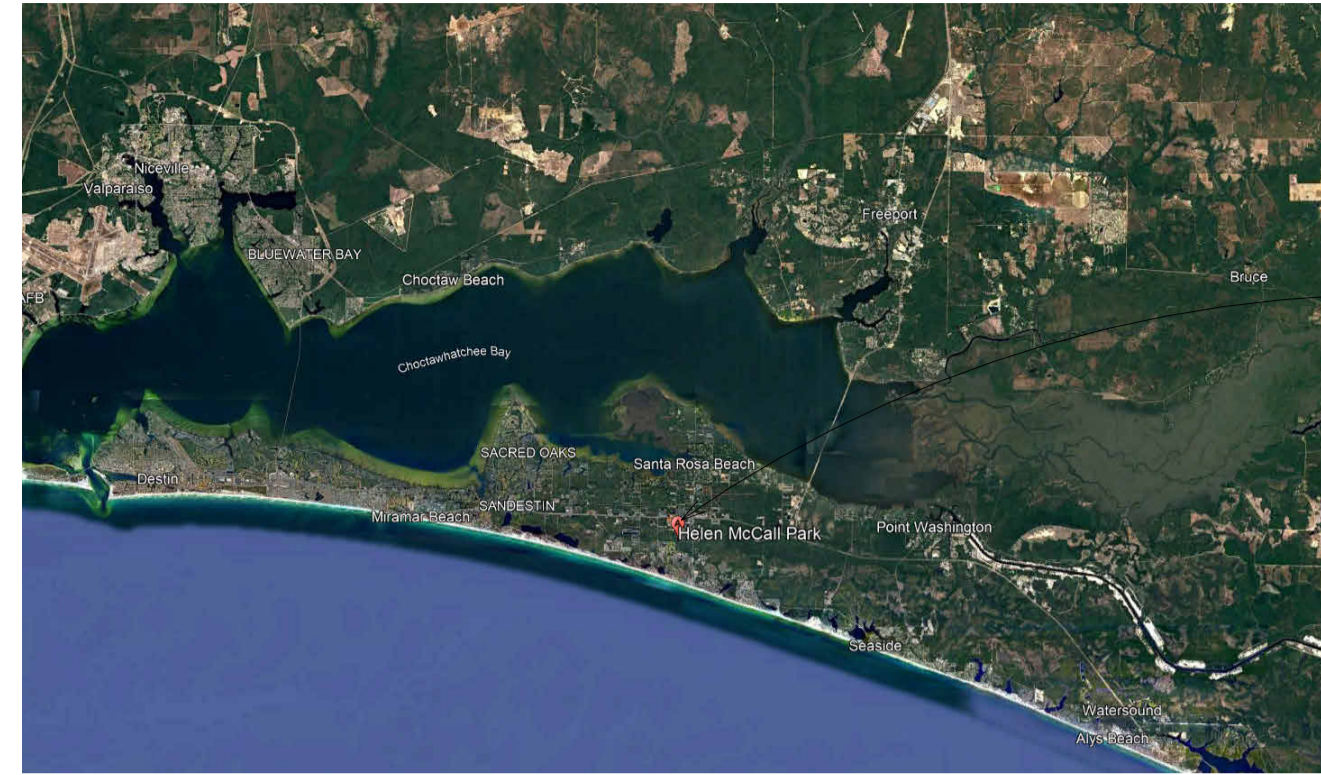
AREA SCHEDULE	
Name	Area
BUILDING A	
LEVEL 1	1369 SF
LEVEL 2	1369 SF
	2738 SF
BUILDING B	
LEVEL 1	336 SF
	336 SF
BUILDING C	
LEVEL 1	537 SF
	537 SF

ABBREVIATIONS

A/C	AIR CONDITIONING	HORIZ	HORIZONTAL
AFF	ABOVE FINISHED FLOOR	ISA	INT'L SYMBOL OF ACCESSIBILITY
ACT	ACOUSTICAL CEILING TILE	LAV	LAVATORY
ALUM	ALUMINUM	MAX	MAXIMUM
B/W	BETWEEN	MTL	METAL
CLG	CEILING	MIN	MINIMUM
CMT	CENTER LINE	MTD	MOUNTED
CT	CERAMIC MOSAIC TILE	NO	NUMBER
CL	CERAMIC TILE	NOM	NOMINAL
CONC	CONCRETE	NTS	NOT TO SCALE
CMU	CONCRETE MASONRY UNIT	NIC	NOT IN CONTRACT
CONT	CONTINUOUS	OC	ON CENTER
CJ	CONTROL JOINT	OH	OVERHEAD
DR	DOOR	PL	PLATE
ELEV	ELEVATION	PREFIN	PREFINISHED
EW	EACH WAY	PT	PRESSURE TREATED
EWC	ELECTRIC WATER COOLER	RL	RAIN LEADER
EQ	EQUAL	REIN	REINFORCED
EXIST	EXISTING	SS	STAINLESS STEEL
EXT	EXTERIOR	THK	THICK
FIN	FINISH	THR	THRESHOLD
FF	FINISHED FLOOR	T&B	TOP AND BOTTOM
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
FEX	FIRE EXTINGUISHER	VERT	VERTICAL
FEC	FIRE EXTINGUISHER CABINET	WC	WATER CLOSET
FD	FLOOR DRAIN	WD	WOOD
FRP	FIRE RETARDANT PAINT	WWF	WELDED WIRE FABRIC
GALV	GALVANIZED	W/	WITH
CC	GENERAL CONTRACTOR	XTR	EXISTING TO REMAIN
GWB	GYPSON WALLBOARD		
HC	HANDICAPPED		
HM	HOLLOW METAL		

GENERAL NOTES

- DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS INDICATED WITHIN THESE DOCUMENTS AND SHALL NOTIFY THE DESIGN TEAM OF ANY VARIATION PRIOR TO THE PURCHASING OF MATERIALS. STARTING FABRICATION OR BEGINNING CONSTRUCTION.
- "TYPICAL" MEANS THE REFERENCED DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- EXISTING FIELD CONDITIONS: THE CONTRACT DOCUMENTS INDICATE THE DESIGN INTENT USING AVAILABLE INFORMATION THE CONTRACTOR IS TO ADVISE THE DESIGN TEAM IF CODE OR SAFETY CONFLICTS EXIST. THE CONTRACTOR IS REQUIRED TO INSPECT THE SITE (PRIOR TO COMMENCEMENT) TO BECOME FAMILIAR WITH CONDITIONS AND INSTALLATION DETAILS THAT WILL AFFECT HIS WORK.
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING CODE, FIRE DEPARTMENT REGULATIONS, UTILITY COMPANY REQUIREMENTS, AND THE BEST TRADE PRACTICES.
- THE CONTRACTOR IS TO SECURE AND PAY FOR ALL NECESSARY FEES AND PERMITS FOR CONSTRUCTION, ELECTRICAL AND PLUMBING INSPECTIONS, ETC.
- ALL DIMENSIONS ARE GIVEN TO ROUGH FRAMING AND MASONRY UNLESS NOTED.
- EXTERIOR AND INTERIOR WALL CONSTRUCTION VARIES. SEE PLANS.
- THE GENERAL CONTRACTOR SHALL AT ALL TIMES MAINTAIN ON THE JOB SITE - A COMPLETE SET OF CONSTRUCTION DOCUMENTS, ADDENDA, SUPPLEMENTAL INSTRUCTIONS, SUPPLEMENTAL DRAWINGS, MEETING NOTES, ETC.
- SLOPE GRADE & PAVED AREAS AWAY FROM THE BUILDING PERIMETER. MAINTAIN POSITIVE DRAINAGE FOR 6' OR UP TO THE P.L., WHICHEVER IS GREATER.



PROJECT LOCATION



BUILDING CODE DATA

APPLICABLE CODES AND REGULATIONS:

FLORIDA BUILDING CODE - 2023 8th EDITION
 NEC-2020
 NFPA 1, FIRE CODE (2021)
 NFPA 101, LIFE SAFETY CODE (2021)

BUILDING USE DATA:

FLORIDA BUILDING CODE - 2023 8TH EDITION
 CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION

304.1 BUSINESS, GROUP B
 311.1.1 ACCESSORY STORAGE SPACES

GENERAL BUILDING DATA:

FLORIDA BUILDING CODE - 2023 8TH EDITION
 CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS

SECTION 504 - BUILDING HEIGHT AND NUMBER OF STORIES

TABLE 504.3
 BUSINESS, NO SPRINKLER, TYPE V-B - 40 FT

ALLOWABLE BUILDING HEIGHT IN FEET: 40 FT
 EXCEPTION: ROOF STRUCTURES CONSTRUCTED OF MATERIALS CONSISTENT WITH CONSTRUCTION TYPE OF BUILDING AND NOT USED FOR HABITATION OR STORAGE.

TABLE 504.4
 BUSINESS, NO SPRINKLER, TYPE V-B - 2

ALLOWABLE NUMBER OF STORIES: 2

SECTION 506 - BUILDING AREA

TABLE 506.2
 BUSINESS, NO SPRINKLER, TYPE V-B - 9,000 SQFT

ALLOWABLE BUILDING AREA: 9,000 SQFT

CHAPTER 6 - TYPES OF CONSTRUCTION

SECTION 602.2 CONSTRUCTION TYPE V-B, NON-SPRINKLERED

BUILDING TYPE & PROTECTION:

CHAPTER 6 - TYPES OF CONSTRUCTION

Table 601

EXTERIOR BEARING WALLS & STRUCTURE: 0 HOUR
 EXTERIOR NON-BEARING WALLS: 0 HOUR
 INTERIOR BEARING WALLS: 0 HOUR
 INTERIOR NON-BEARING WALLS: 0 HOUR

OCCUPANT LOAD AND EGRESS DATA:

TABLE 1004.5 See Occupant Load Calculation Table
 SECTION 1006.2.1 Minimum number of exits required: 1
 TABLE 1006.2.1 Spaces with one means of egress allowed: <50 persons
 Maximum common path of egress: 75 feet
 TABLE 1006.3.3(2) Second floor spaces with one means of egress allowed: <30 persons

ELEVATOR REQUIREMENT

553.509 Vertical accessibility -

- This part and the Americans with Disabilities Act Standards for Accessible Design do not relieve the owner of any building, structure, or facility governed by this part from the duty to provide vertical accessibility to all levels above and below the occupable grade level, regardless of whether the standards require an elevator to be installed in such building, structure, or facility, except for:
 - Elevator pits, elevator penthouses, mechanical rooms, piping or equipment catwalks, and automobile lubrication and maintenance pits and platforms.
 - Unoccupiable spaces, such as rooms, enclosed spaces, and storage spaces that are not designed for human occupancy, for public accommodations, or for work areas.
 - Occupiable spaces and rooms that are not open to the public and that house no more than five persons, including, but not limited to, equipment control rooms and projection booths.
 - Theaters, concert halls, and stadiums, or other large assembly areas that have stadium-style seating or tiered seating if ss. 221 and 802 of the standards are met.
 - All play and recreation areas if the requirements of chapter 10 of the standards are met.
 - All employee areas as exempted in s. 203.9 of the standards.
 - Facilities, sites, and spaces exempted by s. 203 of the standards.

BUILDING DATA

PARCEL IDENTIFICATION NUMBER: SEE CIVIL
 ADDRESS: N/A
 OCCUPANCY: BUSINESS GROUP B
 FLOOD ZONE: ZONE X (BUILDING A) & ZONE A (BUILDING B, BUILDING C)
 BUILDING HEIGHT/STORIES: BUILDING A: 2 STORIES - 27' - 9 1/4"
 BUILDING B: 1 STORY - 15' - 0 3/4"
 BUILDING C: 1 STORY - 13' - 8 1/2"
 SQUARE FOOTAGE: BUILDING A: 2,738 SF
 BUILDING B: 336 SF
 BUILDING C: 537 SF

CD
A

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 JOHN H. HAMMILL, P.E.
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 FL Certificate of Authorization #6419

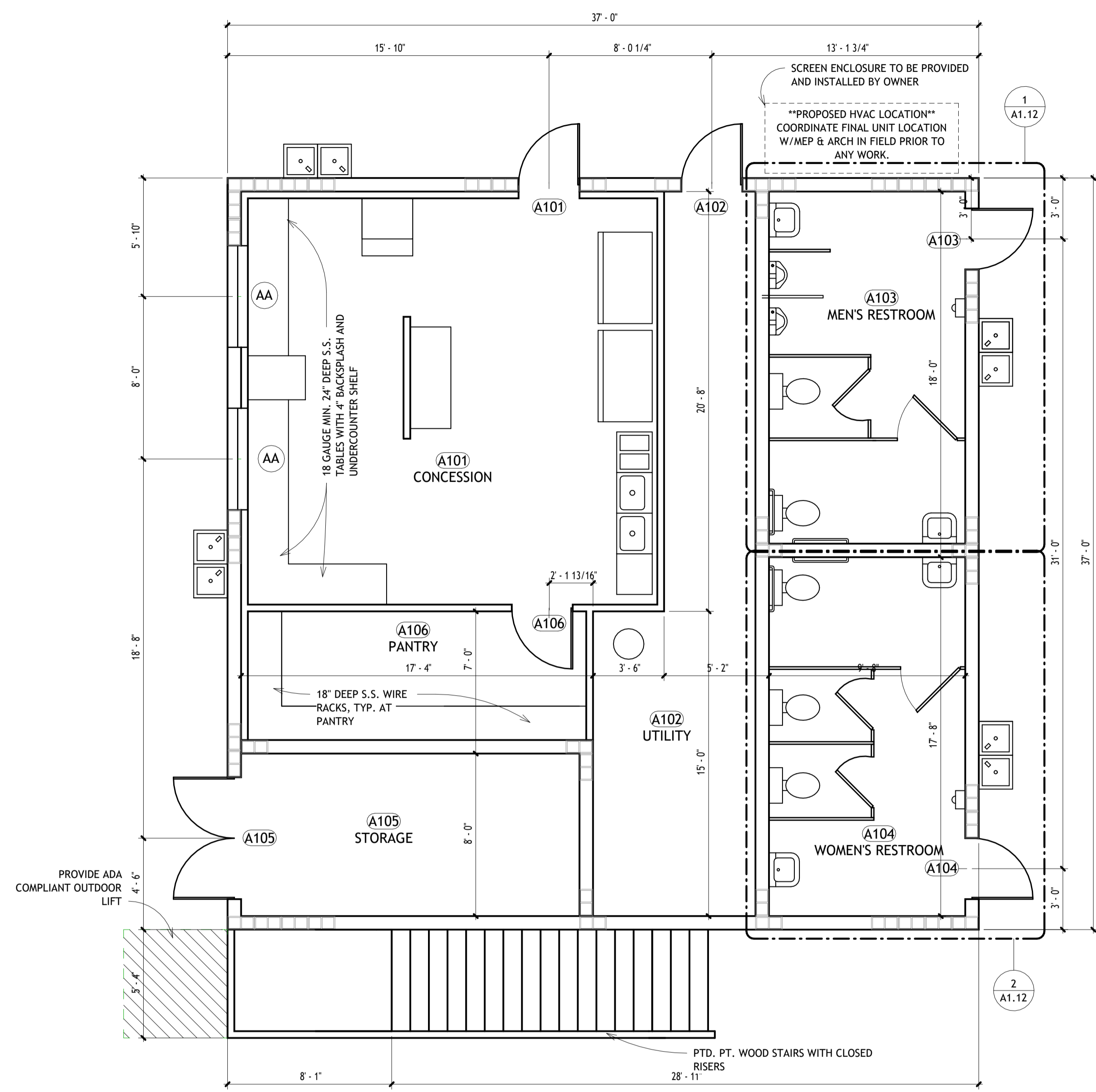
DATE: 10/03/25
 DISTRIBUTION: BID/PERMIT

PROJECT: HELEN MCCALL PARK
 10 ACRE EXPANSION
 WALTON COUNTY, FLORIDA

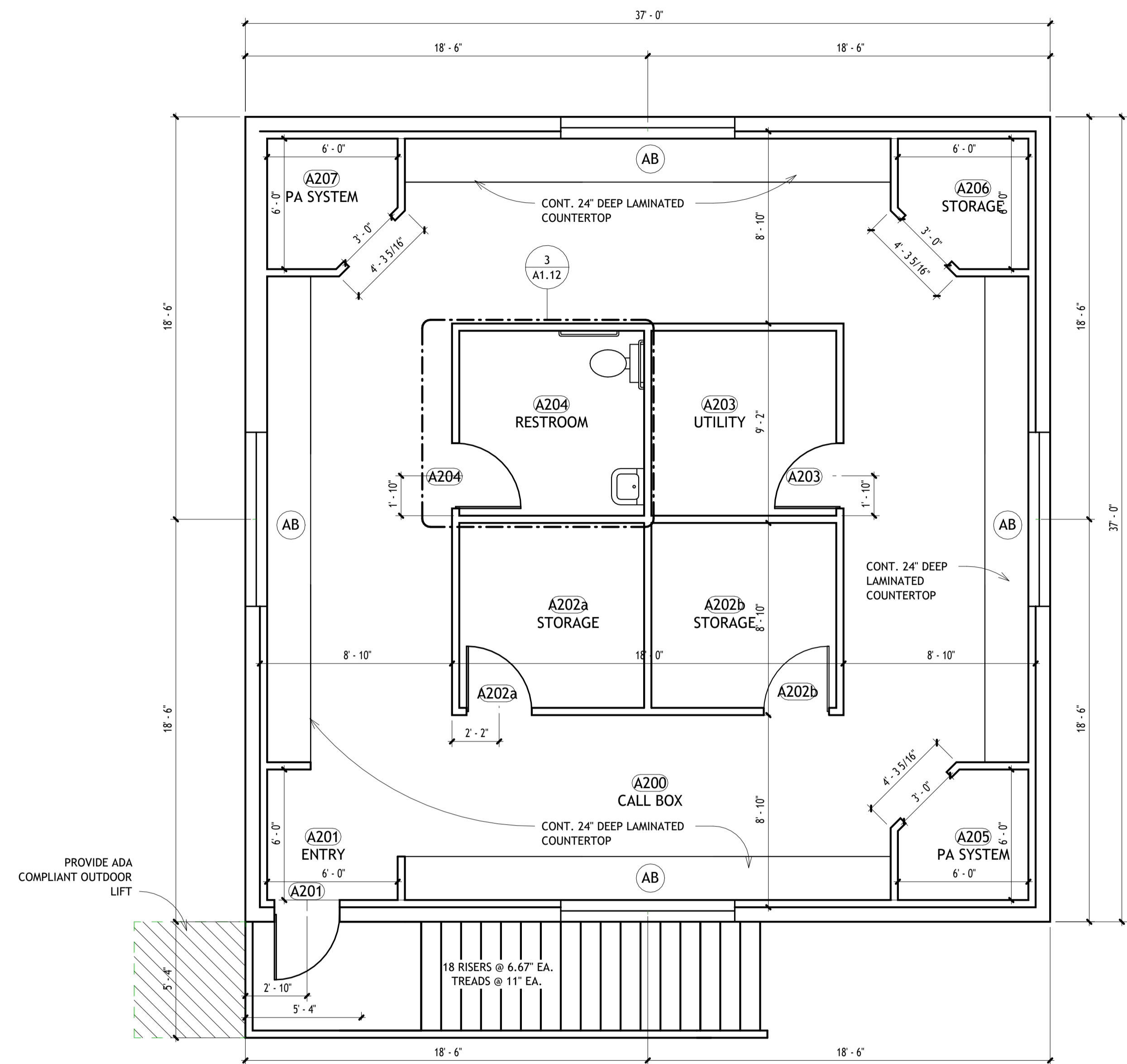
SHEET TITLE: GENERAL INFORMATION
 SHEET SCALE: 1/16" = 1'-0"

JOB No.: 2506
 DATE: 10/03/25
 DRAWN BY: MC
 CHECKED BY: AJV

A0.1



1 BUILDING A - FIRST FLOOR PLAN
1/4" = 1'-0"

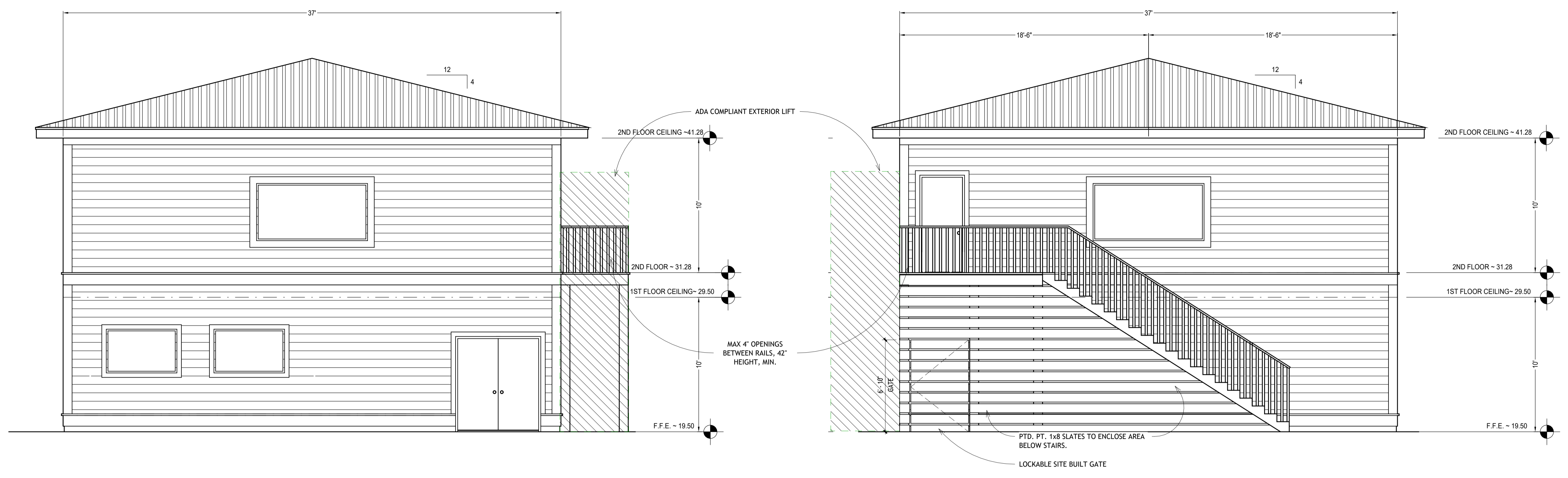


2 BUILDING A - SECOND FLOOR PLAN
1/4" = 1'-0"

BUILDING A - DOOR SCHEDULE			
TYPE	WIDTH	HEIGHT	DESCRIPTION
A101	3'-0"	7'-0"	FIBERGLASS DOOR WITH CONTINUOUS HINGE
A102	3'-0"	7'-0"	FIBERGLASS DOOR WITH CONTINUOUS HINGE
A103	3'-0"	7'-0"	FIBERGLASS DOOR WITH CONTINUOUS HINGE and 24" x 18" LOUVER
A104	3'-0"	7'-0"	FIBERGLASS DOOR WITH CONTINUOUS HINGE and 24" x 18" LOUVER
A105	6'-0"	7'-0"	DOUBLE CORRIM FIBERGLASS DOOR WITH CONTINUOUS HINGE
A106	3'-0"	7'-0"	HOLLOW METAL FRAME WITH WOOD DOOR SLAB
A201	3'-0"	7'-0"	FIBERGLASS DOOR WITH CONTINUOUS HINGE
A202a	3'-0"	7'-0"	HOLLOW METAL FRAME WITH WOOD DOOR SLAB
A202b	3'-0"	7'-0"	HOLLOW METAL FRAME WITH WOOD DOOR SLAB
A203	3'-0"	7'-0"	HOLLOW METAL FRAME WITH WOOD DOOR SLAB
A204	3'-0"	7'-0"	HOLLOW METAL FRAME WITH WOOD DOOR SLAB

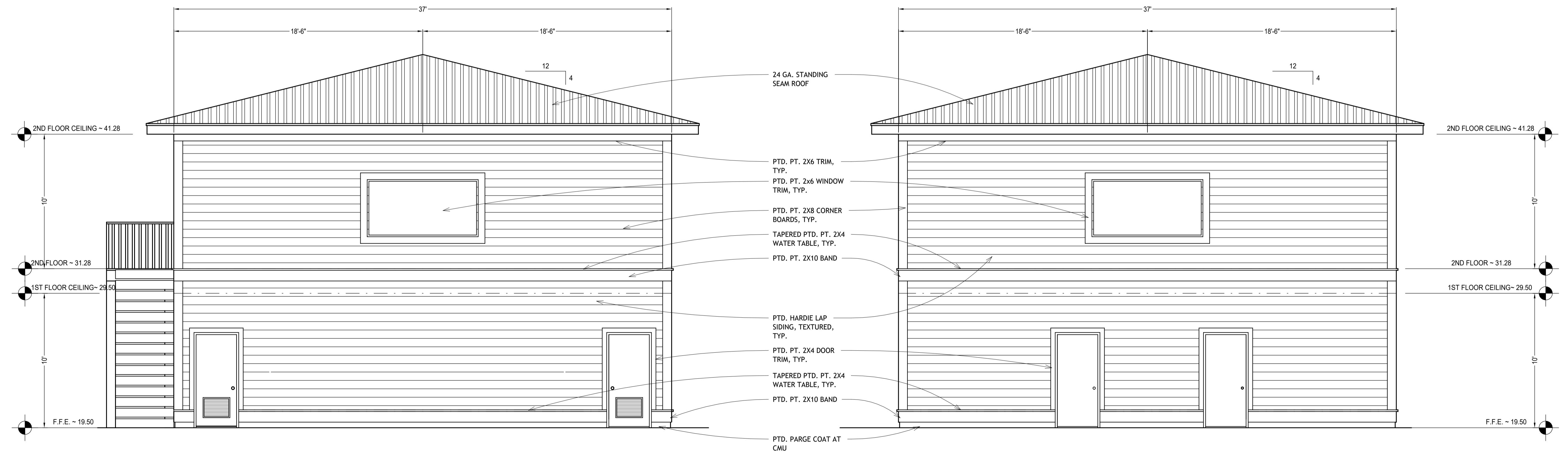
BUILDING A - WINDOW SCHEDULE			
TYPE	WIDTH	HEIGHT	DESCRIPTION
AA	5'-0"	3'-0"	ROLL-UP SERVING WINDOW - IMPACT
AA	5'-0"	3'-0"	ROLL-UP SERVING WINDOW - IMPACT
AB	8'-0"	4'-0"	FIXED WINDOW - IMPACT PGT, VINYL
AB	8'-0"	4'-0"	FIXED WINDOW - IMPACT PGT, VINYL
AB	8'-0"	4'-0"	FIXED WINDOW - IMPACT PGT, VINYL
AB	8'-0"	4'-0"	FIXED WINDOW - IMPACT PGT, VINYL

BUILDING A - ROOM SCHEDULE					
ROOM NO.	ROOM NAME	FLOOR FINISH	BASE	WALL FINISH	CEILING FINISH
A101	CONCESSION	RESINOUS FLOOR COATING	RESINOUS COVE	PTD. 5/8" GREEN BOARD	PTD. 5/8 GREEN BOARD
A102	UTILITY	RESINOUS FLOOR COATING	RESINOUS COVE	PTD. 5/8" GREEN BOAR / EPOXY PAINT	PTD. 5/8 GREEN BOARD
A103	MEN'S RESTROOM	RESINOUS FLOOR COATING	RESINOUS COVE	EPOXY PAINT	PTD. 5/8 GREEN BOARD
A104	WOMEN'S RESTROOM	RESINOUS FLOOR COATING	RESINOUS COVE	EPOXY PAINT	PTD. 5/8 GREEN BOARD
A105	STORAGE	SEALED CONCRETE	NONE	5/8 PLYWOOD	5/8 PLYWOOD
A106	PANTRY	RESINOUS FLOOR COATING	RESINOUS COVE	PTD. 5/8" GREEN BOAR / EPOXY PAINT	PTD. 5/8 GREEN BOARD
A200	CALL BOX	GLUE DOWN LINOLEUM	4" RUBBER COVE BASE	PTD. 5/8" GREEN BOARD	PTD. 5/8 GREEN BOARD
A201	ENTRY	GLUE DOWN LINOLEUM	4" RUBBER COVE BASE	PTD. 5/8" GREEN BOARD	PTD. 5/8 GREEN BOARD
A202a	STORAGE	GLUE DOWN LINOLEUM	4" RUBBER COVE BASE	PTD. 5/8" GREEN BOARD	PTD. 5/8 GREEN BOARD
A202b	STORAGE	GLUE DOWN LINOLEUM	4" RUBBER COVE BASE	PTD. 5/8" GREEN BOARD	PTD. 5/8 GREEN BOARD
A203	UTILITY	GLUE DOWN LINOLEUM	4" RUBBER COVE BASE	PTD. 5/8" GREEN BOARD	PTD. 5/8 GREEN BOARD
A204	RESTROOM	GLUE DOWN LINOLEUM	4" RUBBER COVE BASE	PTD. 5/8" GREEN BOARD	PTD. 5/8 GREEN BOARD
A205	PA SYSTEM	GLUE DOWN LINOLEUM	4" RUBBER COVE BASE	PTD. 5/8" GREEN BOARD	PTD. 5/8 GREEN BOARD
A206	STORAGE	GLUE DOWN LINOLEUM	4" RUBBER COVE BASE	PTD. 5/8" GREEN BOARD	PTD. 5/8 GREEN BOARD
A207	PA SYSTEM	GLUE DOWN LINOLEUM	4" RUBBER COVE BASE	PTD. 5/8" GREEN BOARD	PTD. 5/8 GREEN BOARD



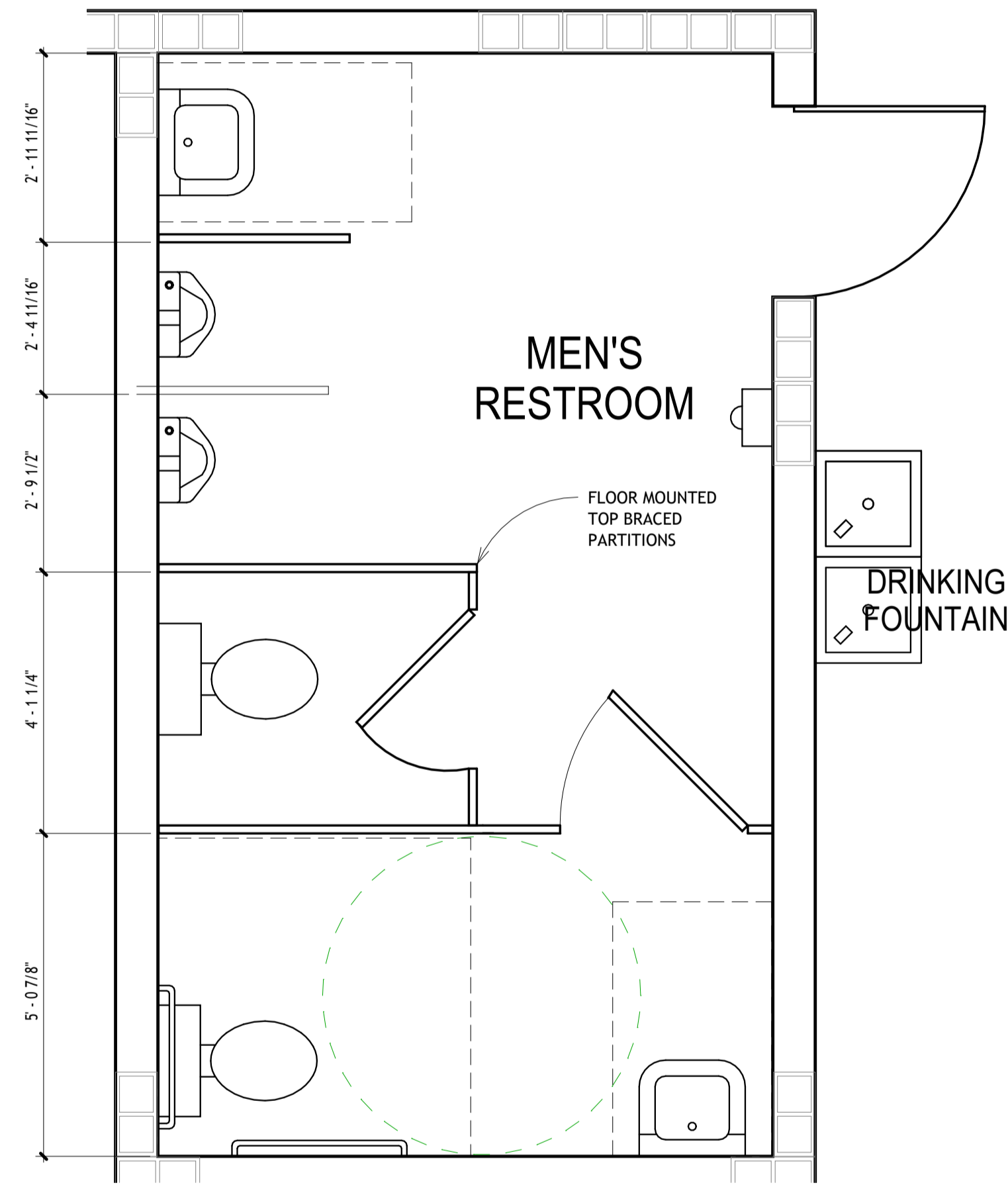
1 BUILDING A - ELEVATION 1
1/4" = 1'-0"

2 BUILDING A - ELEVATION 2
1/4" = 1'-0"

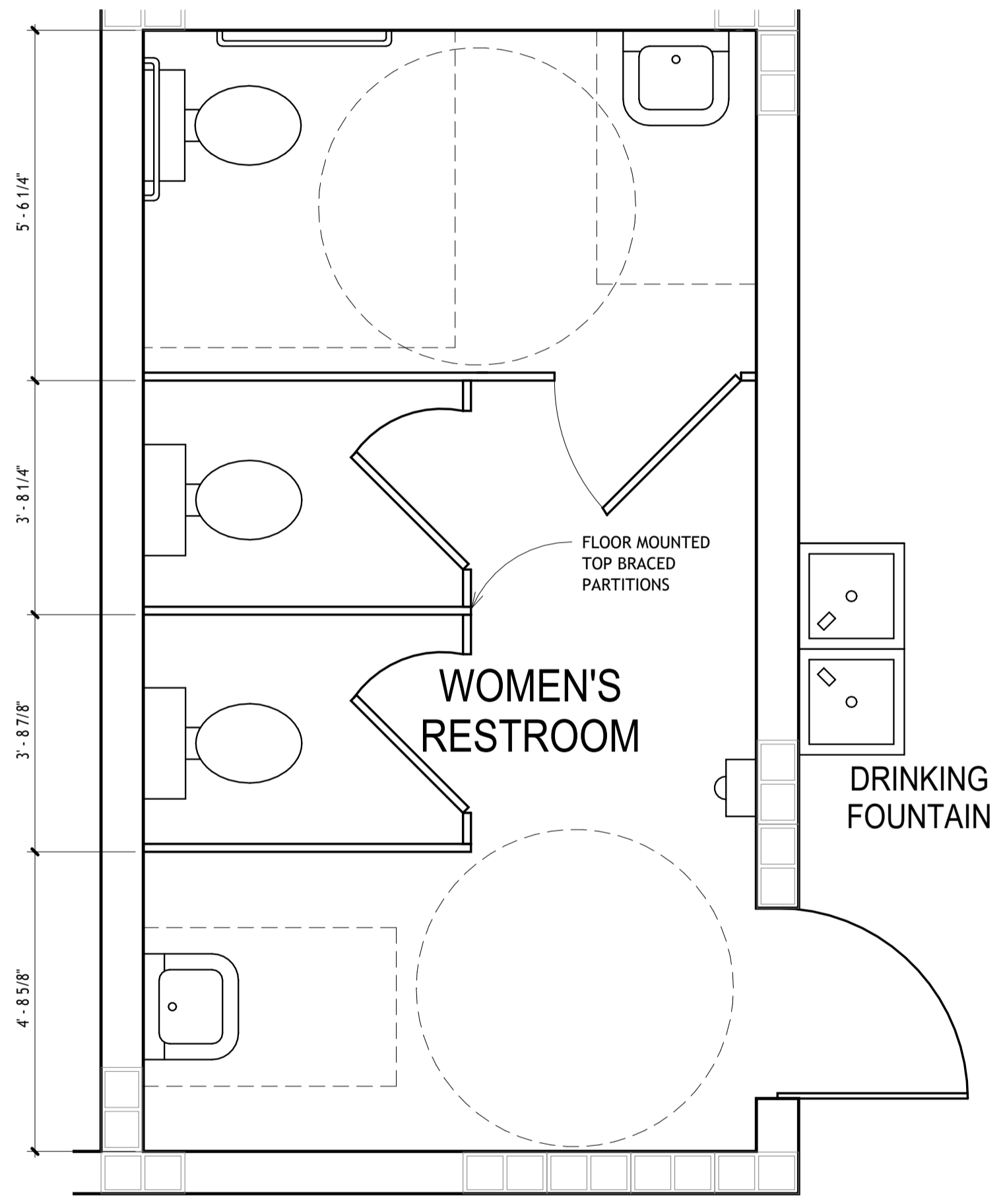


3 BUILDING A - ELEVATION 3
1/4" = 1'-0"

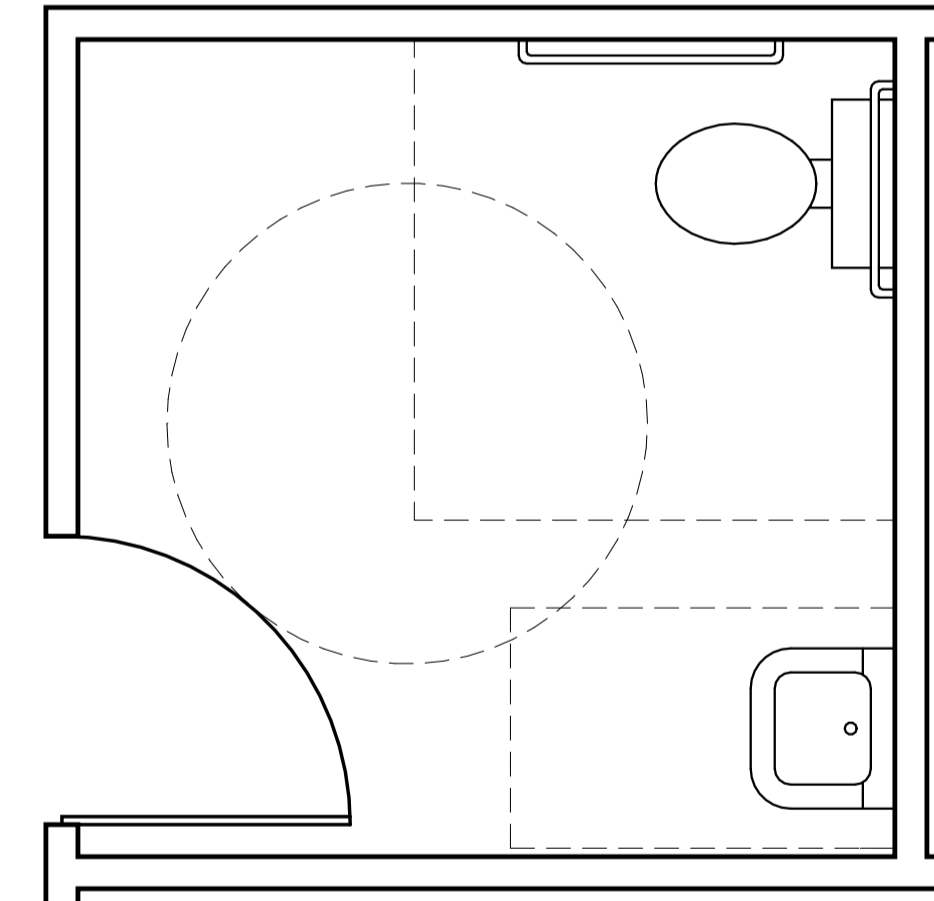
4 BUILDING A - ELEVATION 4
1/4" = 1'-0"



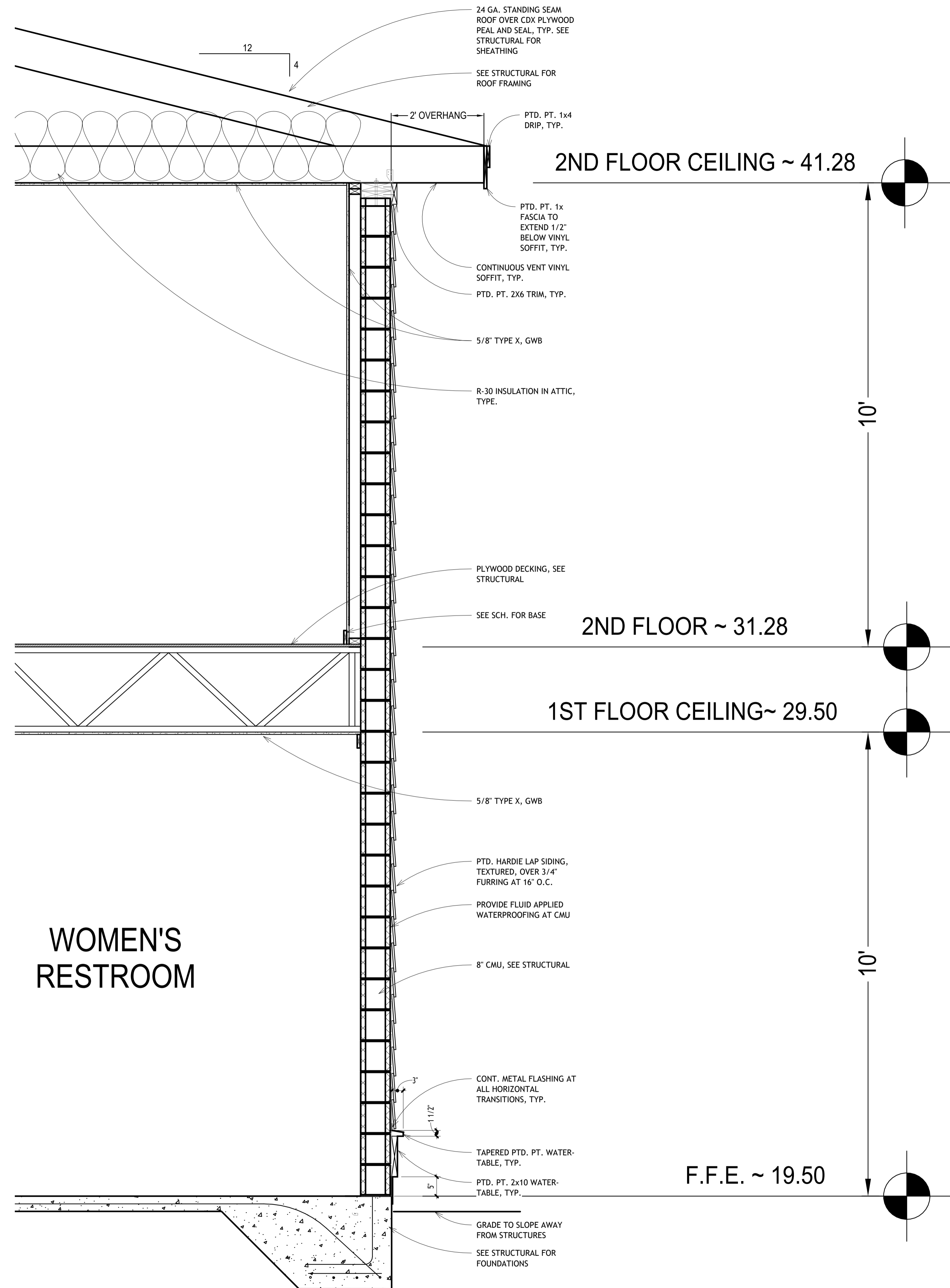
① BUILDING A - MEN'S RESTROOM
1/2" = 1'-0"



② BUILDING A - WOMEN'S RESTROOM
1/2" = 1'-0"



③ BUILDING A - UNISEX
1/2" = 1'-0"



1 BUILDING A - WALL SECTION
3/4" = 1'-0"

CD
A

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John H. Hamad, P.E.
FL #68840

DATE
10/03/2025

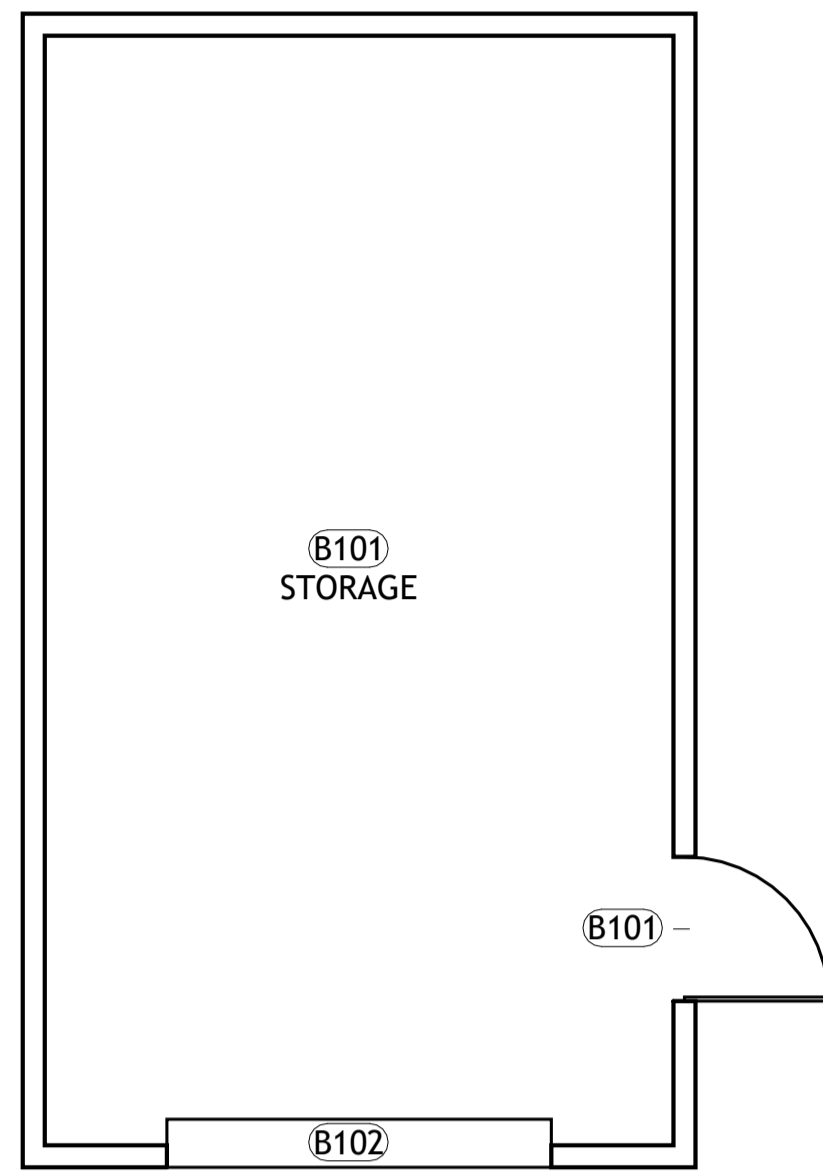
DISTRIBUTION
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PROJECT:
**HELEN MCCALL PARK
10 ACRE EXPANSION**
WALTON COUNTY, FLORIDA

SHEET TITLE:
**BUILDING A - WALL
SECTIONS**
SHEET SCALE: 3/4" = 1'-0"

JOB No.: 2506
DATE: 10/03/25
DRAWN BY: MC
CHECKED BY: AJV

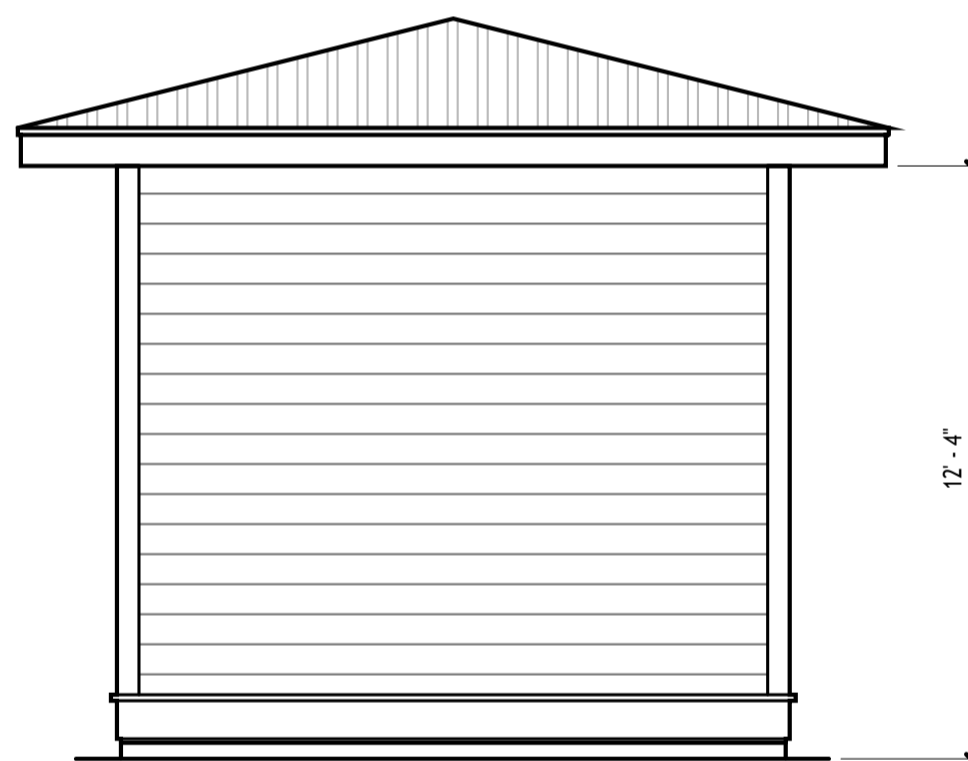
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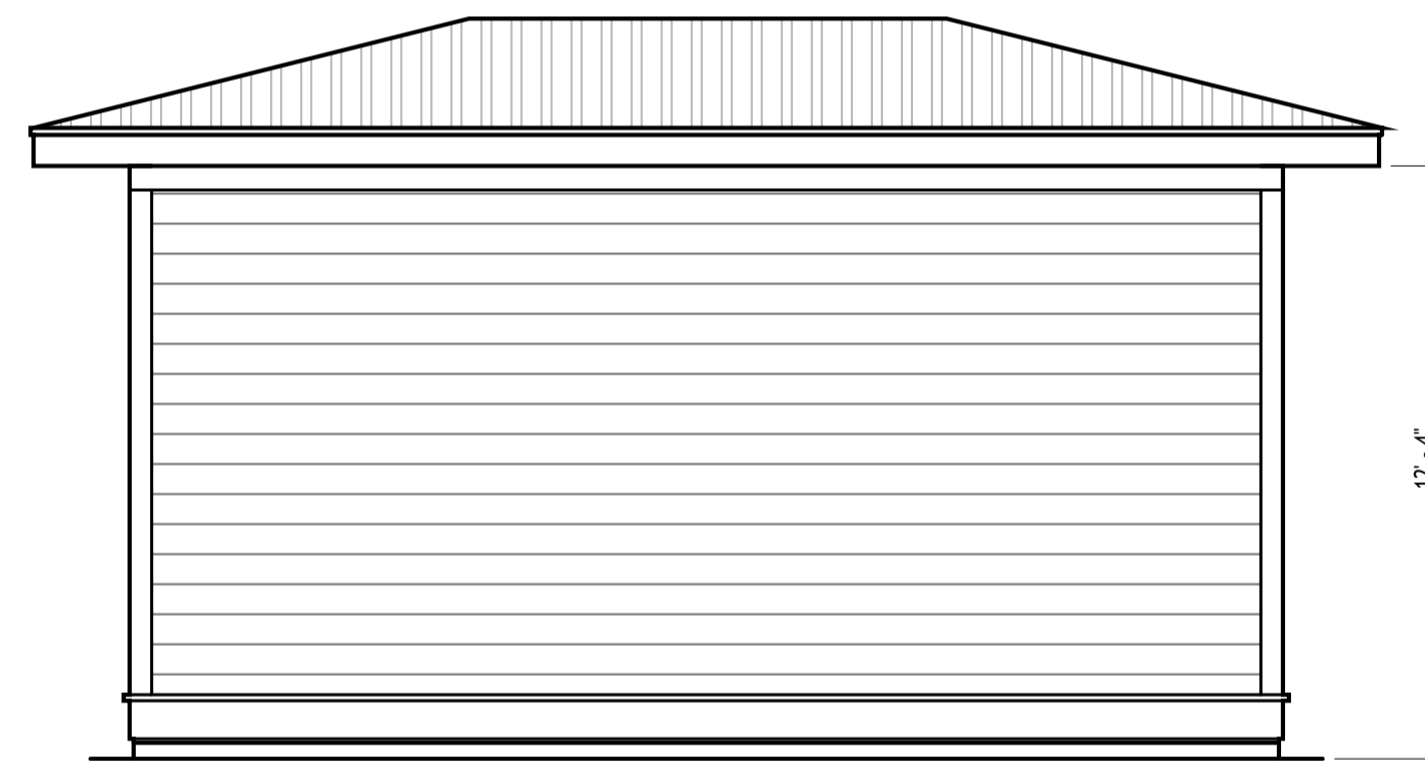
1 BUILDING B
1/4" = 1'-0"

BUILDING B - DOOR SCHEDULE			
TYPE	WIDTH	HEIGHT	DESCRIPTION
B101	3' - 0"	7' - 0"	FIBERGLASS DOOR WITH CONTINUOUS HINGE
B102	8' - 0"	8' - 0"	METAL ROLL UP DOOR

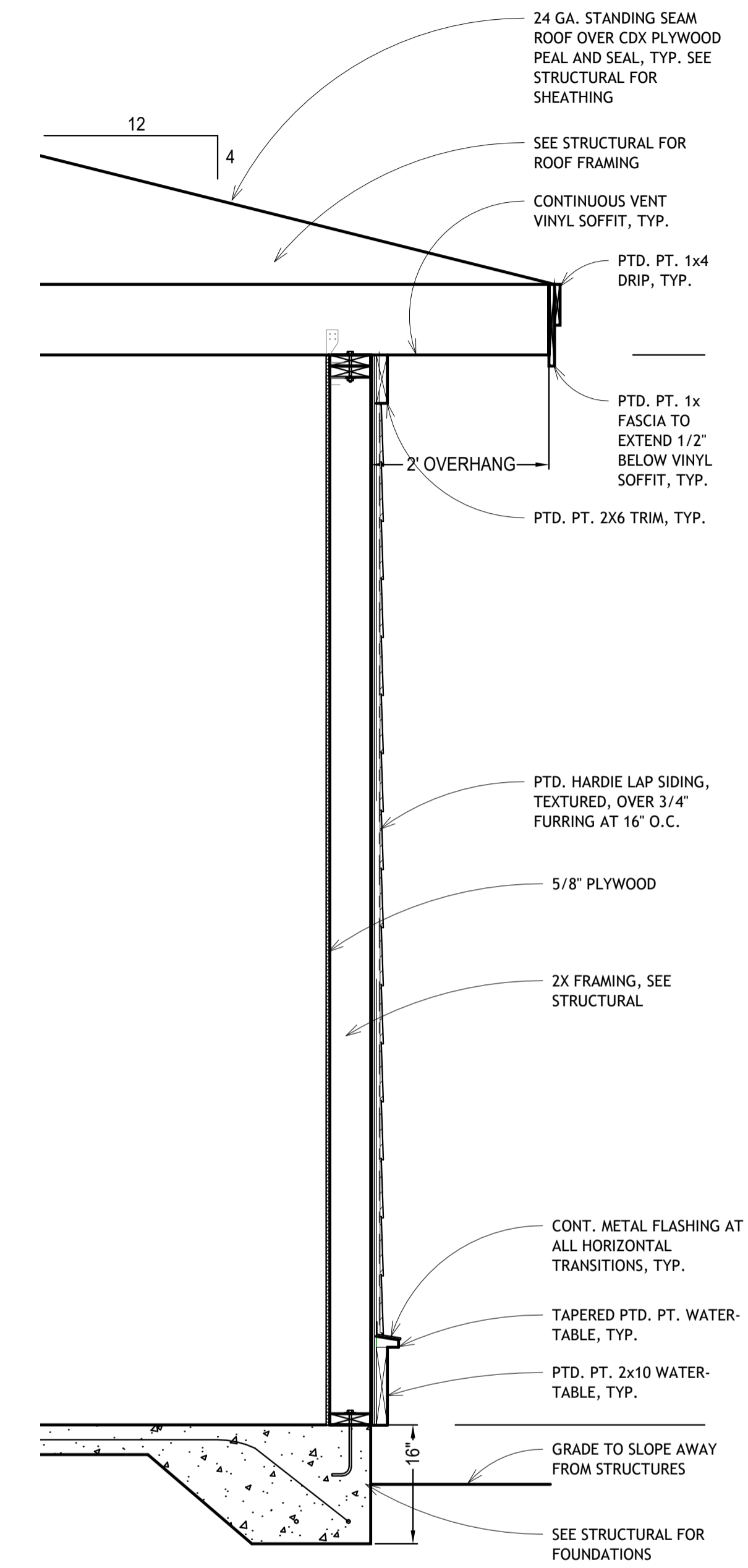
BUILDING B - ROOM SCHEDULE					
ROOM NO.	ROOM NAME	FLOOR FINISH	BASE	WALL FINISH	CEILING FINISH
B101	STORAGE	SEALED CONCRETE	NONE	5/8 PLYWOOD	5/8 PLYWOOD



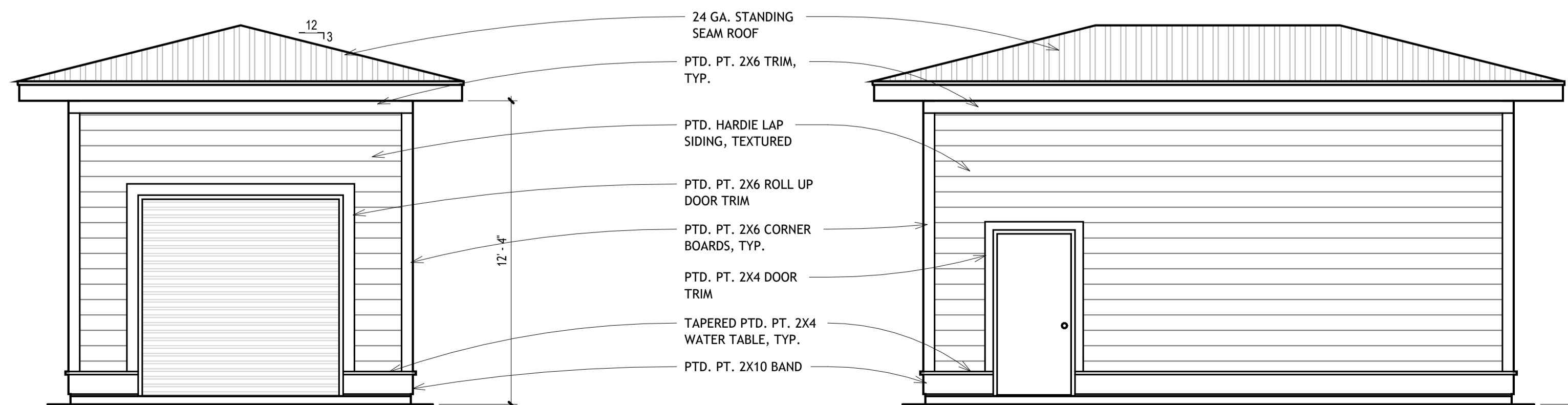
2 BUILDING B - ELEVATION 4
1/4" = 1'-0"



3 BUILDING B - ELEVATION 1
1/4" = 1'-0"

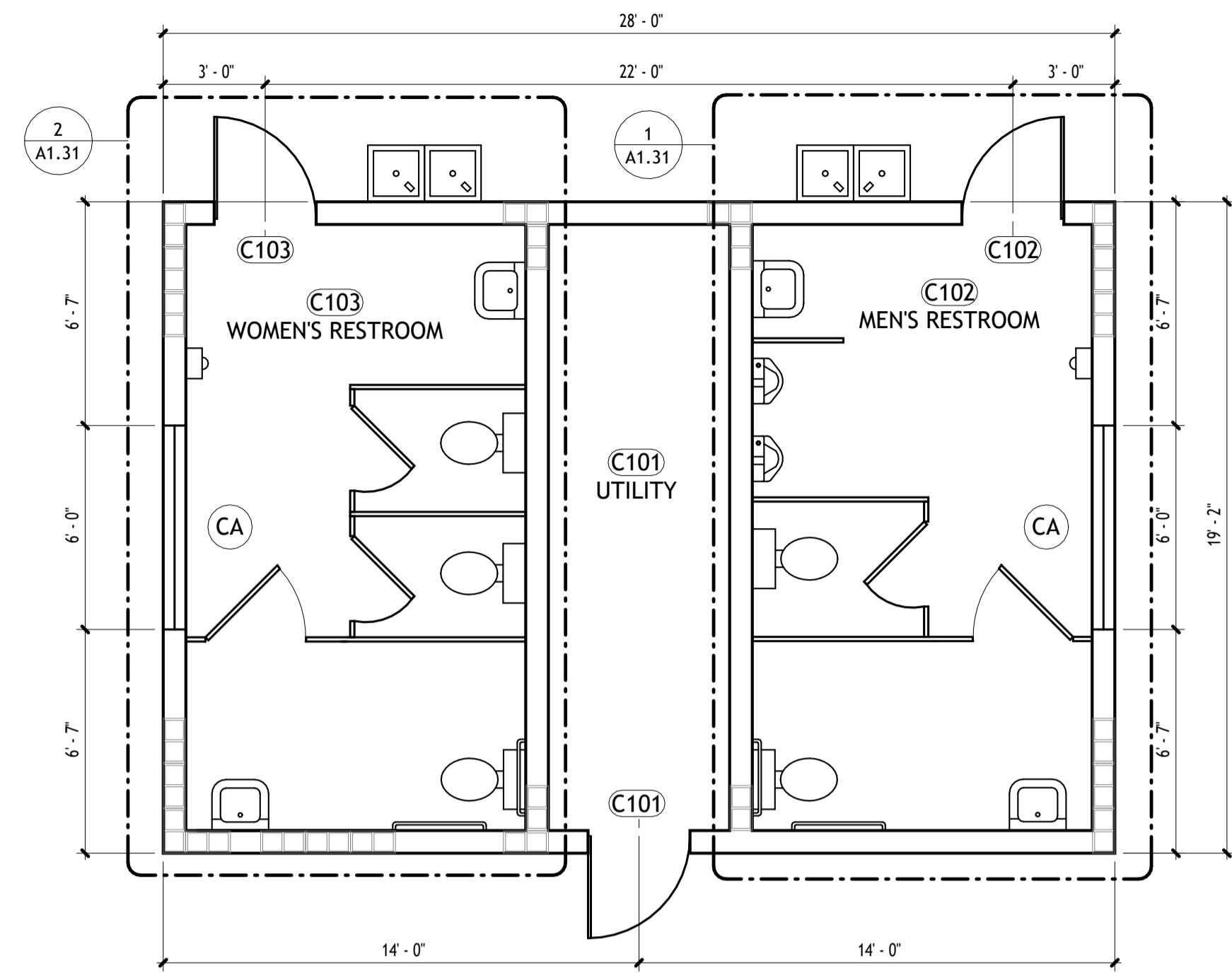


6 BUILDING B - WALL SECTION
3/4" = 1'-0"



4 BUILDING B - ELEVATION 2
1/4" = 1'-0"

5 BUILDING B - ELEVATION 3
1/4" = 1'-0"

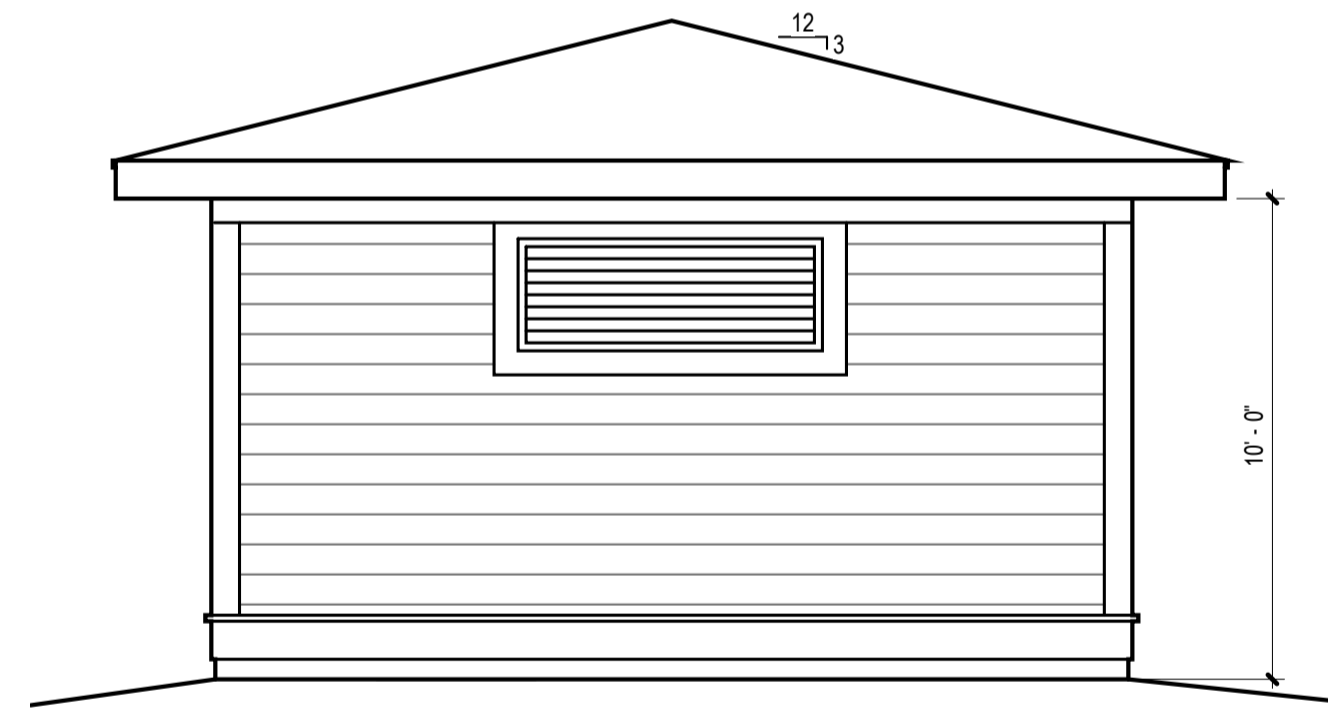


1 BUILDING C
1/4" = 1'-0"

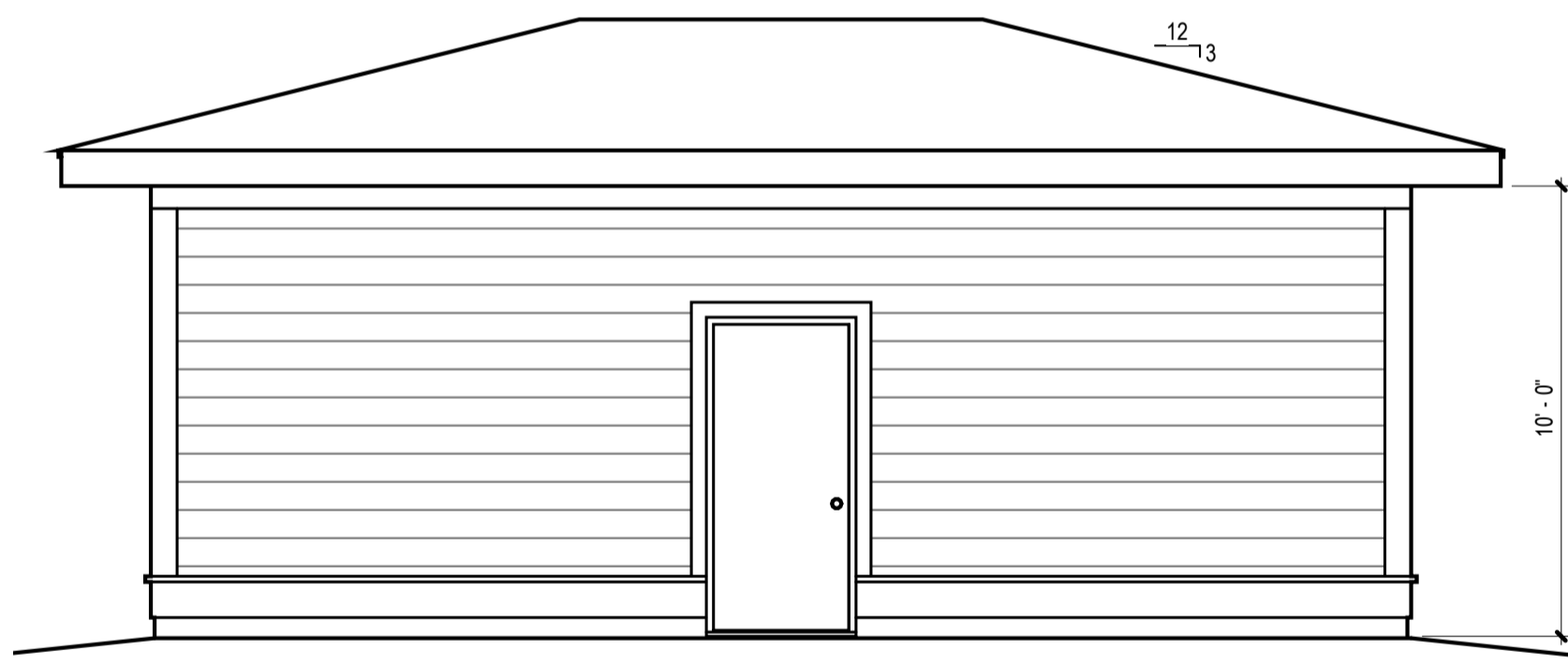
BUILDING C - DOOR SCHEDULE			
TYPE	WIDTH	HEIGHT	DESCRIPTION
C103	3' - 0"	7' - 0"	FIBERGLASS DOOR WITH CONTINUOUS HINGE and 24" x 18" LOUVER
C102	3' - 0"	7' - 0"	FIBERGLASS DOOR WITH CONTINUOUS HINGE and 24" x 18" LOUVER
C101	3' - 0"	7' - 0"	FIBERGLASS DOOR WITH CONTINUOUS HINGE

BUILDING C - WINDOW SCHEDULE			
TYPE	WIDTH	HEIGHT	DESCRIPTION
CA	6' - 0"	2' - 0"	LOUVERED OPENING
CA	6' - 0"	2' - 0"	LOUVERED OPENING

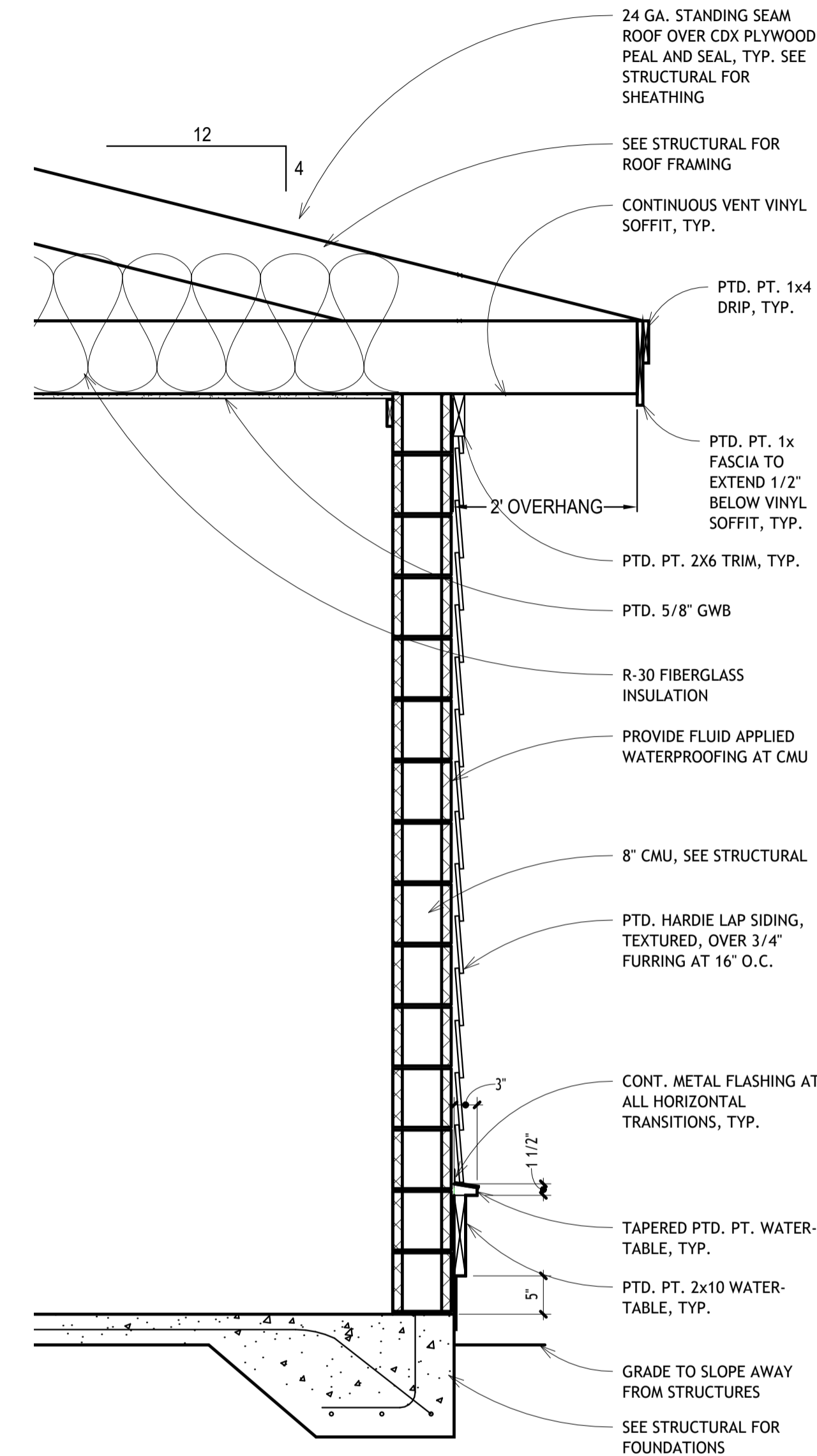
BUILDING C - ROOM SCHEDULE					
ROOM NO.	ROOM NAME	FLOOR FINISH	BASE	WALL FINISH	CEILING FINISH
C101	UTILITY	RESINOUS FLOOR COATING	RESINOUS COVE	EPOXY PAINT	PTD. 5/8 GREEN BOARD
C102	MEN'S RESTROOM	RESINOUS FLOOR COATING	RESINOUS COVE	EPOXY PAINT	PTD. 5/8 GREEN BOARD
C103	WOMEN'S RESTROOM	RESINOUS FLOOR COATING	RESINOUS COVE	EPOXY PAINT	PTD. 5/8 GREEN BOARD



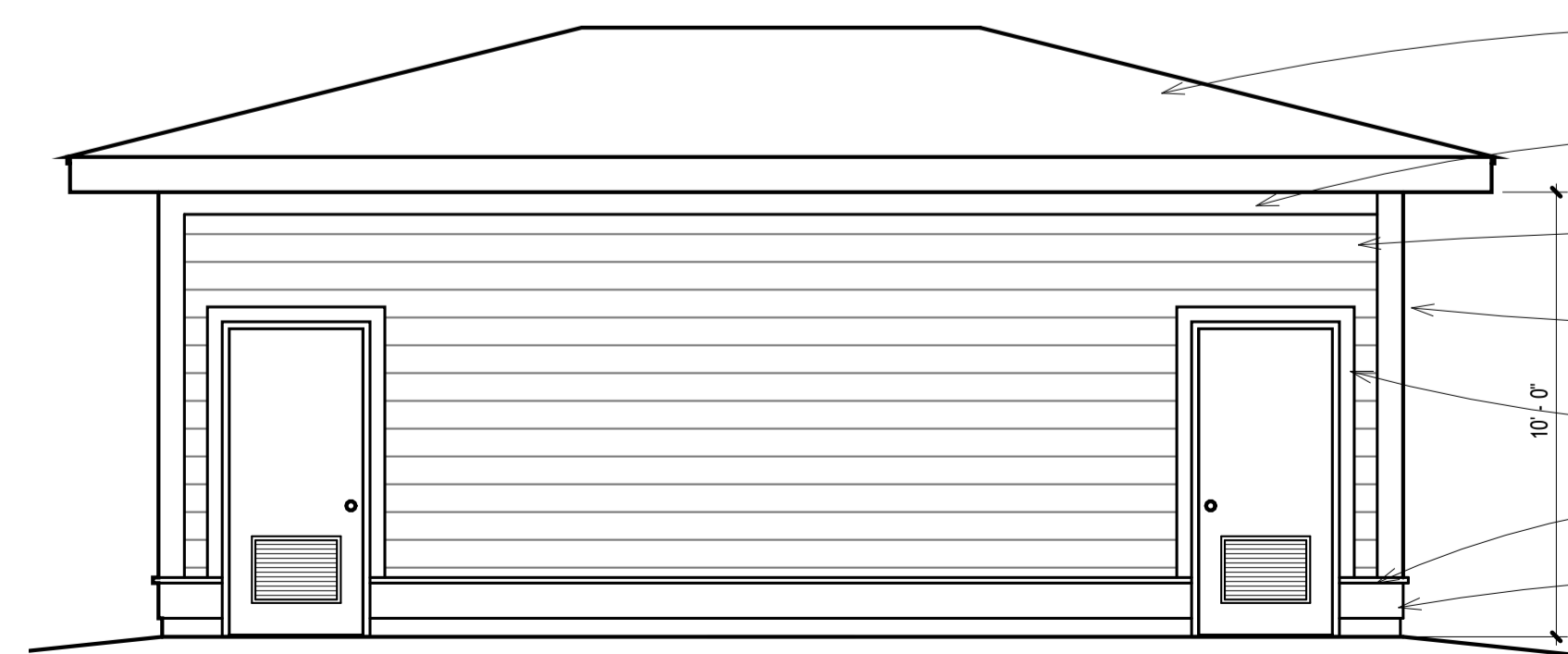
2 BUILDING C - ELEVATION 1
1/4" = 1'-0"



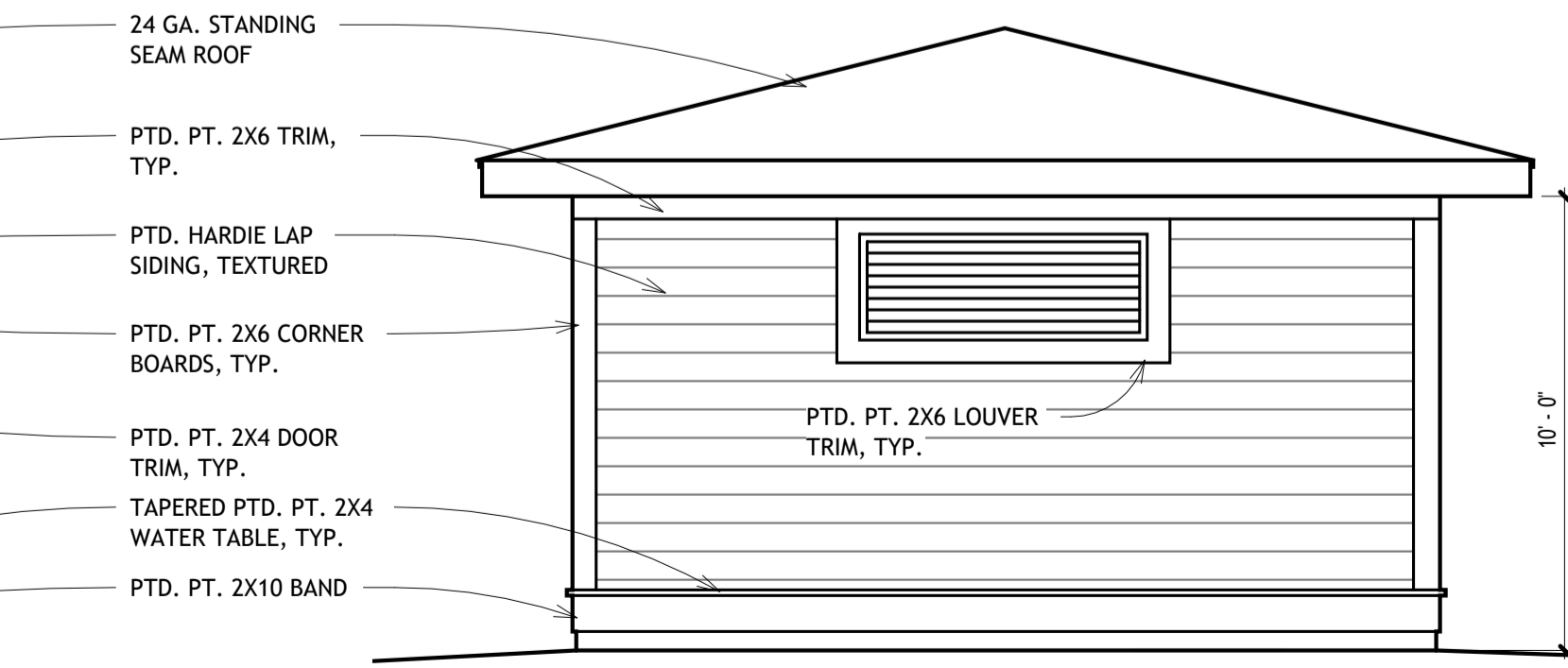
3 BUILDING C - ELEVATION 2
1/4" = 1'-0"



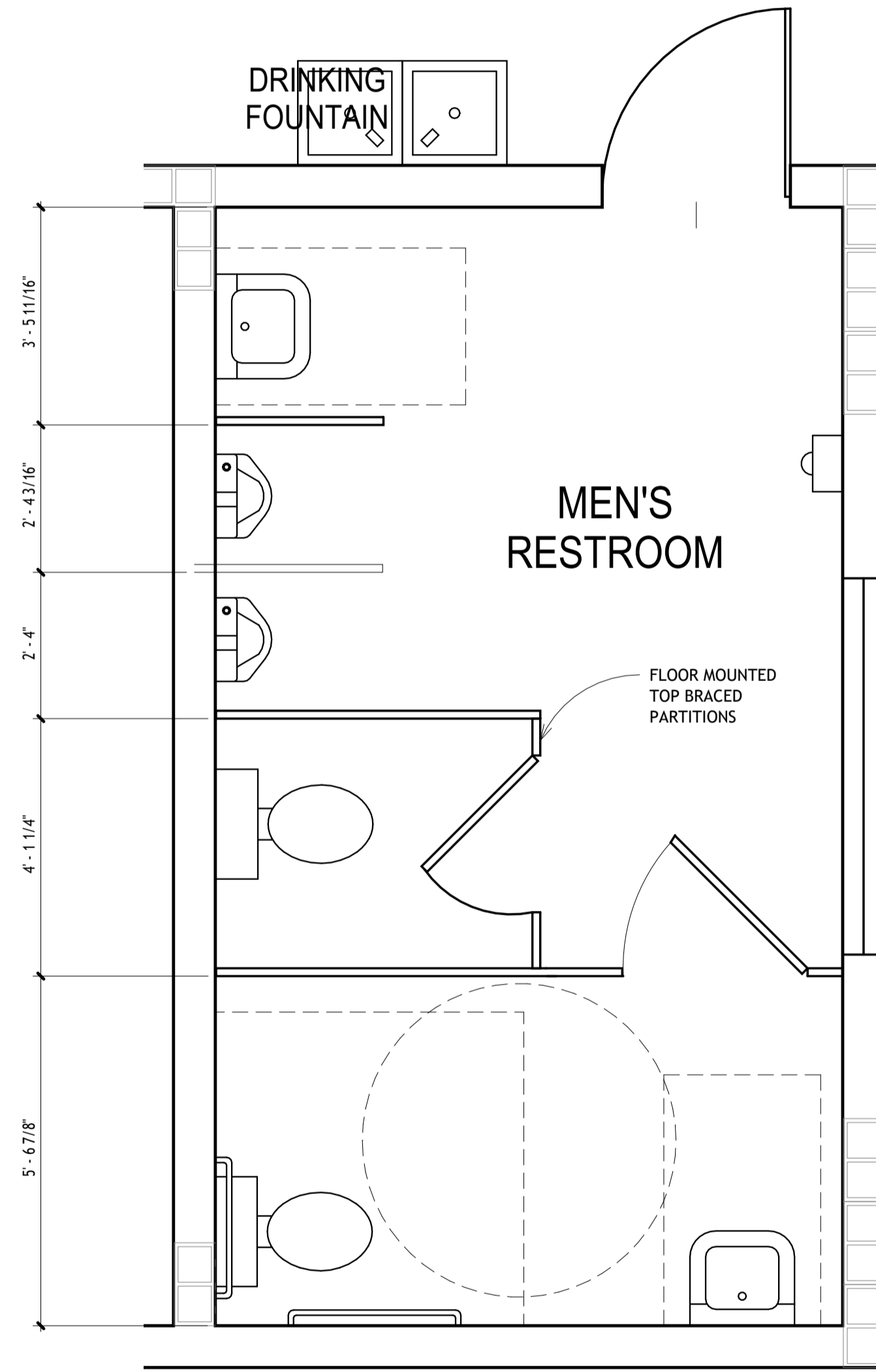
6 BUILDING C - WALL SECTION
3/4" = 1'-0"



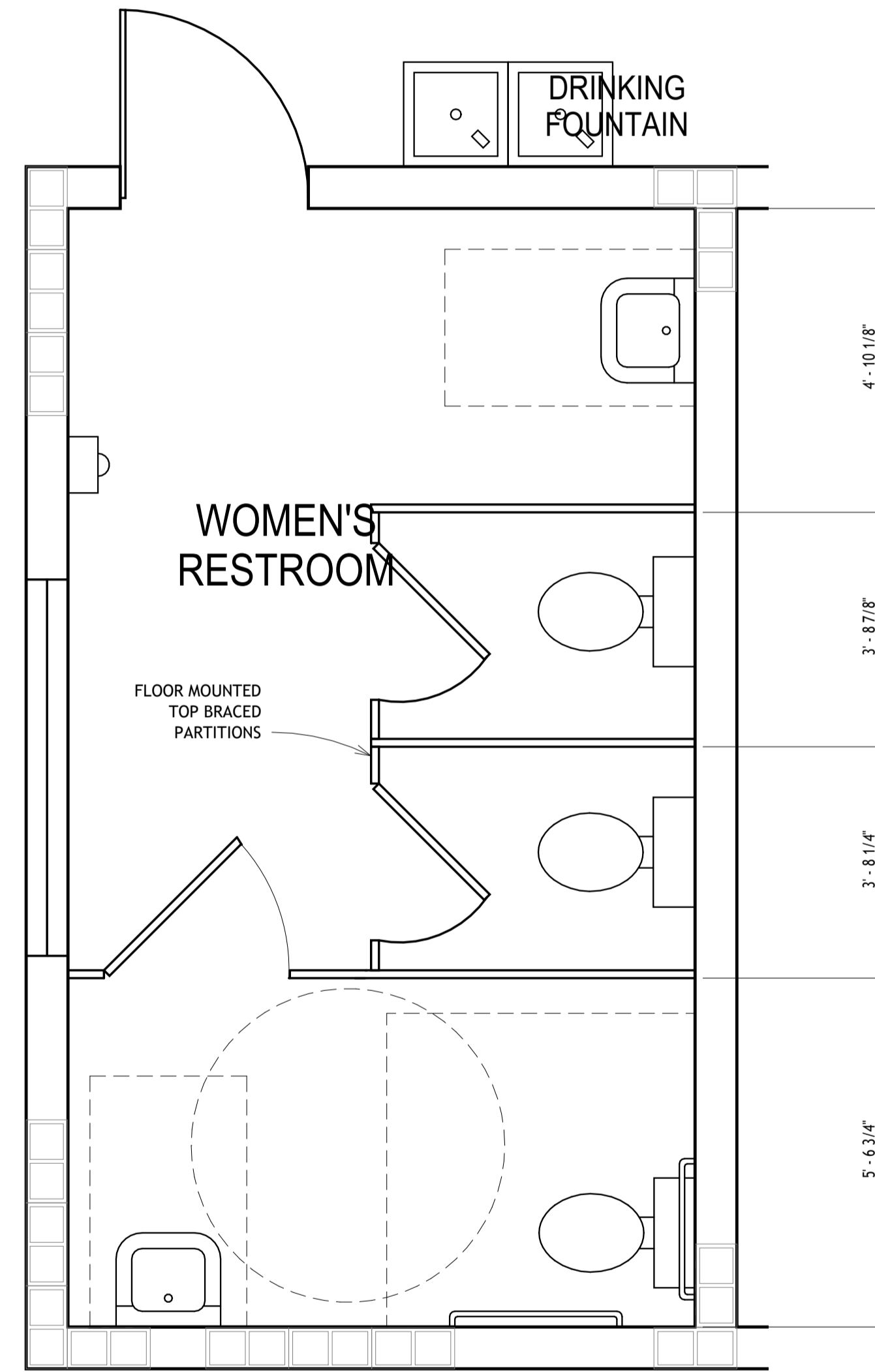
4 BUILDING C - ELEVATION 4
1/4" = 1'-0"



5 BUILDING C - ELEVATION 3
1/4" = 1'-0"



① BUILDING C - MEN'S RESTROOM
1/2" = 1'-0"



② BUILDING C - WOMEN'S RESTROOM
1/2" = 1'-0"

GENERAL ENGINEERING NOTES:

1. GENERAL

A. ALL CONSTRUCTION SHALL CONFORM TO:

- THE FLORIDA BUILDING CODE 2023, 8th. EDITION
- THE FLORIDA BUILDING CODE 2023, 8th. EDITION RESIDENTIAL
- MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE/SEI 7-22
- SIGNIFICANT CHANGES TO THE WIND LOAD PROVISIONS OF ASCE 7-22.

B. DRAWINGS SHOW TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY.

C. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK. NOTIFY STRUCTURAL ENGINEER OF ANY DISCREPANCY.

D. NOTIFY THE STRUCTURAL ENGINEER IN WRITING OF CONDITIONS ENCOUNTERED IN THE FIELD CONTRADICTORY TO THOSE SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS.

E. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC.

F. COORDINATE STRUCTURAL CONTRACT DOCUMENTS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL. NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY CONFLICT AND/OR OMISSION.

G. COORDINATE AND VERIFY FLOOR AND ROOF OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.

H. FOR DIMENSIONS NOT SHOWN SEE ARCHITECTURAL DRAWINGS.

I. 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.

J. SUPERIMPOSED DESIGN LIVE LOADS:

LIVING AREAS.....	40 PSF
PORCH & DECKS.....	60 PSF
ROOF.....	20 PSF

2. FOUNDATION AND SLAB ON GROUND

A. THE DESIGN OF FOUNDATIONS AND SLAB ON GROUND IS BASED ON PRESUMPTIVE ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF. PER INTERNATIONAL BUILDING CODE (IBC 2021). STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT FROM THOSE ASSUMED FOR DESIGN.

B. EARTH SUPPORTED SLAB SHALL BE 4" THICK, PLACED ON COMPACTED SUBGRADE, REINFORCED WITH 6"x6"-W1.4XW1.4 WELDED WIRE FABRIC REINFORCEMENT.

C. ALL CONCRETE WORK SHALL CONFORM TO ACI 301. SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS. DESIGN IS BASED ON ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.

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

FOUNDATIONS.....	4000 PSI
SLAB-ON-GROUND.....	4000 PSI

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

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

G. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND SHALL BE PROVIDED IN FLAT SHEETS (ROLLS NOT PERMITTED).

H. TIE ALL REINFORCING STEEL AND EMBEDMENTS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF REINFORCEMENT WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES.

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

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

K. STRUCTURAL TESTING/INSPECTION AGENCY SHALL CERTIFY THE BEARING MEDIUM BEFORE STARTING CONSTRUCTION.

L. NO CONCRETE SHALL BE PLACED IN STANDING WATER.

M. ALL FOOTING TRENCHES TO BE CLEARED OF ORGANIC MATERIALS.

N. ANY SOIL CONDITION ENCOUNTERED DURING EXCAVATION THAT IS CONTRARY TO THE CONDITIONS USED FOR DESIGN OF FOOTINGS AS OUTLINED IN THESE NOTES OR ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER OF RECORD BEFORE PROCEEDING.

3. TIMBER, PLYWOOD, SHEATHING, TRUSSES, JOISTS:

A. ALL TIMBER FRAMING SHALL CONFORM TO THE FOLLOWING CODES: AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (TIMBER CONSTRUCTION MANUAL, LATEST EDITION). THE FLORIDA BUILDING CODE 2023, RESIDENTIAL.

B. STRUCTURAL TIMBER SHALL BE #2 SOUTHERN YELLOW PINE (M.C. - 19%), OR APPROVED EQUAL (BY THE STRUCTURAL ENGINEER) UNLESS OTHERWISE NOTED ON DRAWINGS, WITH THE FOLLOWING MINIMUM ALLOWABLE PROPERTIES:

BENDING STRESS.....	1,050 PSI
SHEAR STRESS.....	90PSI
COMPRESSION STRESS PARALLEL TO GRAIN.....	1,000 PSI
MODULUS OF ELASTICITY.....	1,600,000 PSI

C. STRUCTURAL GLUE LAMINATED TIMBER SHALL BE VISUALLY GRADED SOUTHERN PINE WITH THE FOLLOWING MINIMUM ALLOWABLE PROPERTIES:

BENDING STRESS.....	2,400 PSI
SHEAR STRESS.....	200 PSI
MODULUS OF ELASTICITY.....	1,800,000 PSI

D. STRUCTURAL PARALLAM BEAMS SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE PROPERTIES:

BENDING STRESS.....	2,900 PSI
SHEAR STRESS.....	290 PSI
MODULUS OF ELASTICITY.....	2,000,000 PSI

E. STRUCTURAL LAMINATED VENEER LUMBER SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE PROPERTIES:

BENDING STRESS.....	3,100 PSI
SHEAR STRESS.....	285 PSI
MODULUS OF ELASTICITY.....	2,100,000 PSI

F. PLYWOOD SHEATHING:

I. EACH CONSTRUCTION AND INDUSTRIAL PANEL SHALL BE IDENTIFIED WITH THE APPROPRIATE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION, AND SHALL MEET THE REQUIREMENTS OF THE LARGEST EDITION OF U.S. PRODUCT STANDARD PS 1 OR APA PRP-180 PERFORMANCE STANDARDS. ALL PANELS WHICH HAVE ANY EDGE OR SURFACE PERMANENTLY EXPOSED TO THE WEATHER SHALL BE CLASSED EXTERIOR.

II. PANEL ROOF, WALL, CEILING, AND FLOOR SHEATHING SHALL BE (MIN.): 1/2" THICK (WALLS & CEILING), 3/4" THICK (FLOOR), 5/8" THICK (ROOF). OF APA STRUCTURAL RATED SHEATHING EXP. 2 (REFER TO DETAILS AND NOTES ON PLANS). SHEATHING PERMANENTLY EXPOSED TO WEATHER, CONCRETE AND GYPCRETE SHALL BE CLASSED EXTERIOR.

III. NAIL WALL PANELS W/ 10d COMMON NAILS AT 3" O.C. ALONG SUPPORTED PANEL EDGES AND AT 12" O.C. AT INTERMEDIATE SUPPORTS. U.N.O. ON PLANS.

IV. ANCHOR ROOF PANELS W/ 10d RING-SHANK NAILS AT 3" O.C. ALONG SUPPORTED PANEL EDGES AND AT 6" O.C. AT INTERMEDIATE SUPPORTS. U.N.O. ON PLANS.

V. ANCHOR FLOOR PANELS W/ 10d RING-SHANK NAILS AT 3" O.C. ALONG SUPPORTED PANEL EDGES AND AT 6" O.C. AT INTERMEDIATE SUPPORTS. U.N.O. ON PLANS.

G. ALL EXTERIOR AND BEARING STUD WALLS SHALL BE #2 2x6 SOUTHERN YELLOW PINE U.N.O. AND HAVE SOLID BLOCKING AT MID-HEIGHT OR AT EACH SHEATHING JOINT.

H. NO SUPERIMPOSED LOAD FROM FLOOR, CEILING OR ROOF FRAMING MEMBERS SHALL BE TRANSFERRED TO INTERIOR NON-LOAD BEARING WALLS. PROVIDE SLIDE CONNECTORS PER TYPICAL DETAILS OR APPROVED EQUAL.

I. PREFABRICATED WOOD STRUCTURAL MEMBERS, INCLUDING WOOD FLOOR AND ROOF TRUSSES SHALL BE DESIGNED SPECIFICALLY FOR THIS PROJECT PER WIND DESIGN INFORMATION TABLE. SHOP DRAWINGS SHALL BE SEALED BY A FLORIDA REGISTERED ENGINEER.

J. ROOF TRUSS MANUFACTURER TO REFER TO ARCHITECTURAL PLANS FOR RAFTER, CEILING AND BOTTOM CHORD CONFIGURATION, AND SHALL COORDINATE WITH THE MECHANICAL AND ELECTRICAL PLANS FOR VERTICAL/ HORIZONTAL CHASES, PIPES AND DUCTING REQUIREMENTS.

K. TRUSS AND PRE-ENGINEERED BEAM MANUFACTURER SHALL SUBMIT SHOP DRAWINGS TO THE STRUCTURAL ENGINEER AND VERIFY ALL BEARING DIMENSIONS WITH THE BUILDING CONTRACTOR BEFORE FABRICATION OF TRUSSES.

L. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES BEFORE CONSTRUCTION AND/OR TRUSS FABRICATION COMMENCES.

M. WOOD TO WOOD FRAMED CONNECTIONS ARE TO BE MADE WITH BOLTS AND/OR JOIST HANGERS AS SHOWN. TOE-NAILING IS NOT PERMITTED.

N. ALL TRUSSES AND RAFTERS SHALL BE STRAPPED OR HURRICANE CLIPPED AT ALL SUPPORTING MEMBERS AT ALL BEARING POINTS.

O. ALL EXTERIOR FRAMING MEMBERS THAT ARE IN DIRECT CONTACT WITH CONCRETE OR EXPOSED TO WEATHER SHALL BE ACQ PRESSURE TREATED.

P. ALL METAL HARDWARE THAT IS IN DIRECT CONTACT WITH CONCRETE OR EXPOSED TO WEATHER SHALL BE STAINLESS STEEL, GRADE 304 OR 316.

Q. PRESSURE TREATED LUMBER & CONNECTORS:

1. ALL SALT WATER/AIR EXPOSED AND GROUND CONTACT LUMBER, AS WELL AS LUMBER IN CONTACT WITH CONCRETE/GYPCRETE IN SALT WATER/AIR EXPOSED AREAS SHALL BE ACQ (ALKALINE COPPER QUATERNARY) CHEMICAL PRESSURE TREATED. AT THE RECOMMENDED RATE. THIS MATERIAL IS CORROSIVE TO METALS.

2. ALL NAILS, BOLTS, SCREWS, WOOD CONNECTORS, AND SIMPSON/USP MANUFACTURED METAL HARDWARE EXPOSED TO ACQ (ALKALINE COPPER QUATERNARY) PRESSURE TREATED LUMBER SHALL BE STAINLESS STEEL GRADE 304 OR 316.

3. LUMBER IN CONTACT WITH CONCRETE/GYPCRETE, AND NOT SALT WATER/AIR EXPOSED, AND NOT GROUND CONTACT CAN BE SODIUM BORATE CHEMICAL PRESSURE TREATED (AT THE RECOMMENDED RATE), AT THE CONTRACTOR'S OPTION. PRODUCTS TREATED WITH SODIUM BASED RETARDANTS AND PRESERVATIVES SHALL BE STAINLESS STEEL GRADE 304 OR 316.

R. ALL 2X WOOD STUDS SHALL BE ATTACHED TO TOP AND BOTTOM PLATES WITH MINIMUM (4) FOUR 10d NAILS. TOE NAILING IS NOT PERMITTED.

S. BASE PLATES OF ALL EXTERIOR WALLS TO BE ATTACHED TO CONCRETE SLAB W/ 1/2" Ø ANCHORS AT 32" O.C MAX W/ 6" MIN. EMBED U.N.O. ON PLANS.

4. MASONRY SPECIFICATIONS:

A. HOLLOW CONCRETE BLOCK (MASONRY) UNITS SHALL CONFORM TO ASTM C90, WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI ON THE NET AREA AND 1000 PSI ON THE GROSS AREA. (F_m = 1500 PSI)

B. ALL MORTAR FOR MASONRY SHALL CONFORM TO ASTM C270, TYPE S. ALL GROUT FOR USE IN MASONRY SHALL CONFORM TO ASTM C476, MINIMUM 3000 PSI AT 28 DAYS.

C. REINFORCING BARS: ASTM A615 GRADE 60.

D. ALL CONTINUOUS HORIZONTAL BARS SHALL HAVE AT LEAST MINIMUM REQUIRED TENSION SPLICE WITH CORNER BARS AT ALL CORNERS AND WALL INTERSECTIONS PER IBC 2021.

E. ALL VERTICAL REINFORCEMENT IN MASONRY WALLS SHALL HAVE AT LEAST MINIMUM REQUIRED TENSION SPLICE PER IBC 2021.

F. PROVIDE MASONRY HORIZONTAL TRUSS TYPE JOINT REINFORCEMENT AT 16" O.C., (REFER TO PLANS/DETAILS). VERTICAL IN ALL CONCRETE BLOCK WALLS. REINFORCEMENT SHALL BE FOR TOTAL WIDTH OF CAVITY WALLS.

G. CONCRETE FOR BLOCK FILL SHALL HAVE 3/8 INCH MAXIMUM SIZE COARSE AGGREGATE AND SUFFICIENT SLUMP SO THE CONCRETE WILL FLOW INTO THE BLOCK CELLS WITHOUT LEAVING VOIDS. HEIGHT OF LIFT WHEN FILLING CELLS SHALL NOT EXCEED 4'-0".

H. UNLESS INDICATED OTHERWISE PROVIDE MASONRY CONTROL JOINTS AT A MAXIMUM SPACING OF 40 FEET. JOINTS SHALL BE DISCONTINUOUS AT BOND BEAM.

I. FILL CELLS OF MASONRY WITH CONCRETE. REINFORCE ONE CELL AT 32" ON CENTER, TWO CELLS AT EACH END OF OPENINGS, THREE CELLS AT CORNERS AND BEAM BEARING LOCATIONS, AND FOUR CELLS AT T-INTERSECTIONS WITH 1 - #5 VERTICAL BAR AT EACH GROUDED CELL.

J. ANCHOR BOLTS INTO MASONRY WALL SHALL BE STAINLESS STEEL AND MINIMUM 1/2" IN DIAMETER WITH MINIMUM 4" EMBEDMENT LENGTH IN CONCRETE U.N.O. ON PLANS.

5. STRUCTURAL STEEL

A. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED ACCORDING TO THE 'LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS' AND THE AISC 'CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES'.

B. STRUCTURAL STEEL SHALL BE OF THE FOLLOWING GRADE UNLESS NOTED OTHERWISE ON DRAWINGS:

- W-SHAPES SHALL CONFORM TO ASTM A992, GRADE 50. (ASTM A572, GRADE 50 MAY BE SUBSTITUTED FOR ASTM A992.)

2. SQUARE/RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500, GRADE B.

3. ROUND HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A501 OR ASTM A53, GRADE B.

4. OTHER STEEL SHAPES (CHANNELS, ANGLES, AND PLATES) MAY CONFORM TO ASTM A36.

C. BOLTS, RODS, ANCHORS AND HEADUP STUDS:

1. ALL CONNECTIONS SHALL BE SMOOTH TIGHTENED USING THE TURN OF NUT METHOD CRITICAL WITH A MINIMUM 3/4" DIAMETER A325 HIGH-STRENGTH BOLTS.

2. ANCHOR RODS SHALL CONFORM TO ASTM A36 OR A307, UNLESS NOTED OTHERWISE.

3. HEADED STUDS SHALL BE 3/4" DIAMETER, UNLESS NOTED OTHERWISE, AND SHALL CONFORM TO AWS D1.1. LENGTH OF STUD SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWING:

D. CONNECTIONS SHALL BE DETAILED BASED ON THE DESIGN INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS. DEVIATION FROM THE CONNECTION DETAILS DEPICTED IN THE CONTRACT DOCUMENTS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER.

1. STANDARD SHEAR CONNECTIONS SHALL BE DETAILED AS DOUBLE-ANGLE, SINGLE PLATE, SINGLE-ANGLE, OR TEE CONNECTIONS IN ACCORDANCE WITH CONNECTION TABLES IN THE 'MANUAL OF STEEL CONSTRUCTION: LRFD', SECOND EDITION, VOLUME II, PART 9.

2. FOR WELDED CONNECTIONS, USE PREQUALIFIED WELDED JOINTS IN ACCORDANCE WITH AISC AND THE STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY. 'NON-PREQUALIFIED JOINTS' SHALL BE QUALIFIED PRIOR TO FABRICATION.

3. FACTORED DESIGN REACTIONS SHALL BE AS SHOWN ON THE STRUCTURAL DRAWINGS OR, IF NOT SHOWN, THE FACTORED DESIGN REACTION SHALL BE HALF OF THE MAXIMUM FACTORED UNIFORM LOAD TABULATED IN THE 'MANUAL OF STEEL CONSTRUCTION: LRFD', SECOND EDITION, VOLUME I, PART 4.

4. STEEL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY THE CONTRACTOR. THIS DESIGN SERVICE SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF SERVICES. SHOP DRAWINGS AND CALCULATIONS FOR SUCH CONNECTIONS SHALL BE SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE. REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN AND ADEQUACY OF SUCH CONNECTIONS. FOR CONNECTION DETAILS DEPICTING ARRANGEMENT CONCEPT OF THE CONNECTION WITHOUT COMPLETE DETAILS, THE CONNECTION DESIGN ENGINEER SHALL FOLLOW THAT ARRANGEMENT CONCEPT IN THE DESIGN.

E. THE CAMBER OF STEEL MEMBERS SHALL BE VERIFIED IN THE SHOP AND THE FIELD PER THE SPECIFICATIONS.

F. THE STRUCTURAL STEEL MEMBERS HAVE NOT BEEN DESIGNED TO ACCOMMODATE THE 'TORSION DUE TO ECCENTRIC LOADING OF THE PRECAST PANELS. CURTAIN WALL SYSTEMS, LIGHT GAUGE METAL FRAMING, ETC. SUPPLEMENTARY SECONDARY BRACING SHALL BE DESIGNED AND PROVIDED BY THE SUPPLIER TO ELIMINATE THE TORSION.

G. STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED.

6. POST INSTALLED ANCHORS

A. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQ'D BY THE BUILDING CODE. PROVIDE CONTINUOUS SPECIAL INSPECTION FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE EVALUATION REPORT. CONTACT MANUFACTURER'S REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY.

B. CONCRETE ANCHORS

- MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 308.5 AND ICC-ES AC193 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
 - SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713)
 - SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-3037)
- ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 308.4 AND ICC-ES AC308 FOR CRACKED AND UNCRACKED CONCRETE
 - SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)
 - SIMPSON STRONG-TIE "AT-XP" (IAMPO-ES ESR-0263)
 - HILTI HIT HY150 INJECTION ADHESIVE
 - EPON CERAMIC 6 EPOXY ADHESIVE SUPPLIED BY ITW RAMSET/RED HEAD
 - POWER-FAST EPOXY INJECTION GEL SUPPLIED BY POWERS FASTENING

C. MASONRY ANCHORS

- ANCHORAGE TO SOLID-GROUTED CONCRETE MASONRY:

- MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC101 OR AC106. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
 - SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES FL15730)
 - SIMPSON STRONG-TIE "STRONG-BOLT 2" (IAMPO-ES FL16230)
 - SIMPSON STRONG-TIE "WEDGE-ALL" (ICC-ES FL15730)
- ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
 - SIMPSON STRONG-TIE "AT-XP" (IAMPO-ES FL16230)
 - SIMPSON STRONG-TIE "SET-XP" (IAMPO-ES ER-16230)
 - HILTI HIT HY150 INJECTION ADHESIVE (ICC-ES ESR-3963)

- ANCHORAGE TO HOLLOW CONCRETE MASONRY:

- ADHESIVE ANCHORS WITH SCREEN TUBES SHALL BE TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC60. AS APPROPRIATE, THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. PRE-APPROVED ADHESIVE ANCHORS WITH SCREEN TUBES INCLUDE:
 - SIMPSON STRONG-TIE "SET" (ICC-ES ESR-1772)
 - SIMPSON STRONG-TIE "AT" (ICC-ES ESR-1958)
 - HILTI HIT HY150 INJECTION ADHESIVE
 - EPON CERAMIC 6 EPOXY ADHESIVE SUPPLIED BY ITW RAMSET/RED HEAD
 - POWER-FAST EPOXY INJECTION GEL SUPPLIED BY POWERS FASTENING

3.1. ADHESIVE ANCHORS WITH SCREEN TUBES SHALL BE TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC60. AS APPROPRIATE, THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. PRE-APPROVED ADHESIVE ANCHORS WITH SCREEN TUBES INCLUDE:

- SIMPSON STRONG-TIE "SET" (ICC-ES ESR-1772)
- SIMPSON STRONG-TIE "AT" (ICC-ES ESR-1958)
- HILTI HIT HY150 INJECTION ADHESIVE
- EPON CERAMIC 6 EPOXY ADHESIVE SUPPLIED BY ITW RAMSET/RED HEAD
- POWER-FAST EPOXY INJECTION GEL SUPPLIED BY POWERS FASTENING

7. CAST IN PLACE CONCRETE:

A. CONCRETE WORK SHALL CONFORM TO ACI 318-99 AND CRSI STANDARDS.

B. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM SPECIFIED 28-DAY COMPRESSIVE STRENGTH:

1. NORMAL WEIGHT STRUCTURAL CONCRETE: 4,000 PSI

C. PIPES OR DUCTS SHALL NOT EXCEED ONE-THIRD THE SLAB OR WALL THICKNESS UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.

D. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS OR GROUNDS REQUIRED TO BE ENCASED IN CONCRETE AND FOR LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.

E. CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.

F. DEFECTIVE AREAS IN CONCRETE INCLUDING, BUT NOT LIMITED TO, HONEYCOMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.01 INCH SHALL BE REPAIRED. EXTENT OF DEFECTIVE AREA TO DETERMINED BY THE STRUCTURAL ENGINEER.

8. STRUCTURAL INSPECTIONS:

A. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER TO PERFORM STRUCTURAL INSPECTIONS PRIOR TO PLACING CONCRETE OR COVERING STRUCTURAL MEMBERS OR CONNECTIONS. CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER AT LEAST 48 HOURS IN ADVANCE OF A NECESSARY INSPECTION.

B. TYPICAL SCHEDULING OF INSPECTION:

- PILINGS (WHEN APPLICABLE)
- FOUNDATION
- FOOTINGS (LAYOUT AND REBARS)
 - STEM WALL BLOCK AND/OR BLOCK PIER (LAYOUT AND REBARS)
- FIRST FLOOR
 - SLAB (REINFORCING STEEL AND GRADE BEAMS) (WHEN APPLICABLE)
 - FIRST FLOOR FRAMING (BEAMS, JOISTS, HANGERS, STRAPS, HOLDOWNS) (WHEN APPLICABLE)
 - SLAB (REINFORCING STEEL AND GRADE BEAMS) (WHEN APPLICABLE)
- SHEATHING NAILED-OFF INSPECTION (EXTERIOR SHEATHING, SHEARWALL SHEATHING, ROOF DECKING) (WHEN APPLICABLE)
- FINAL FRAMING/STRAPPING (BEAMS, COLUMNS, TRUSSES, STRAPS, HOLDOWNS, SHEAR WALLS) FOLLOW-UP FRAMING/STRAPPING INSPECTIONS (IF CORRECTIONS WERE REQUIRED AFTER INITIAL FRAMING/STRAPPING INSPECTION)
- CAST IN PLACE CONCRETE ELEMENTS
 - REINFORCING FOR WALL AND COLUMNS PRIOR TO CLOSING FORMWORK
 - REINFORCING IN ALL C.I.P. BEAMS AND STRUCTURAL SLABS.

C. THE E.O.R. INSPECTIONS LISTED ABOVE ARE MANDATORY AND CAN NOT BE SUBSTITUTED BY COUNTY, OR ANY OTHER THIRD PARTY INSPECTION AGENCY.

9. REINFORCEMENT:

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

B. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND HAVE MINIMUM SIZE AND END LAP OF 8".

C. REINFORCING STEEL SHALL ONLY BE WELDED OR TACK-WELDED IF IT CONFORMS TO ASTM A706, AND AWS D1.4. REINFORCING SHALL NOT BE WELDED NOR TACK-WELDED UNLESS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.

D. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCING BAR SIZES AND PLACEMENT, WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS, AND DETAILS IS NOT ACCEPTABLE.

E. PROVIDE DOWELS FROM FOUNDATIONS THE SAME SIZE AND NUMBER AS THE VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.

F. PLACE REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:

CAST-IN-PLACE (NON POST-TENSIONED) CONCRETE REINFORCEMENT COVER:

PERMANENTLY EXPOSED TO EARTH:
 CAST AGAINST THE EARTH.....3" CLEAR
 CAST AGAINST THE FORMWORK.....2" CLEAR

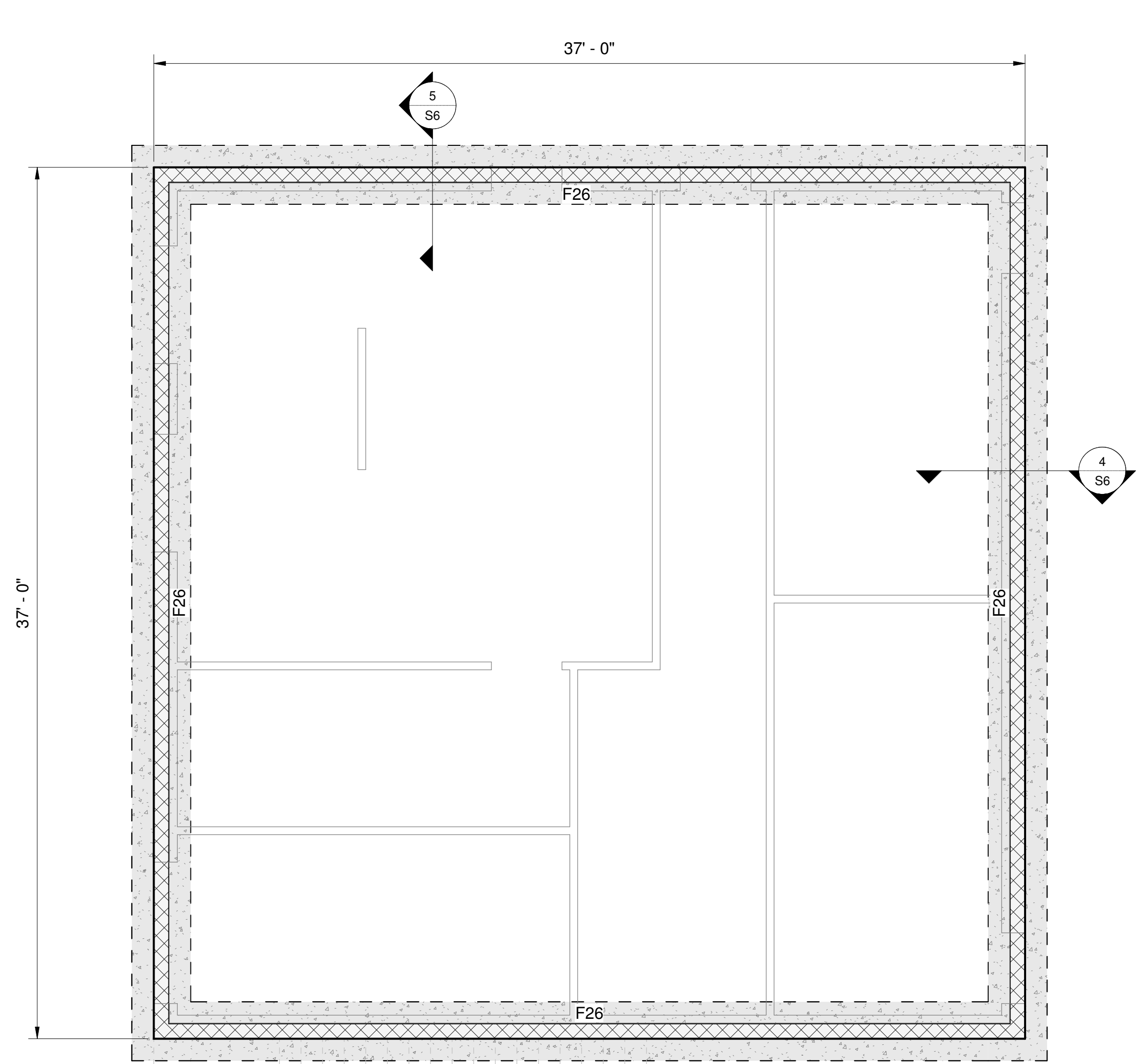
EXPOSED TO EARTH OR WEATHER:
 FOR BARS LARGER THAN NO. 5 BAR.....2" CLEAR
 NO. 5 BARS OR SMALLER.....1-1/2" CLEAR

G. MASONRY REINFORCING SHALL BE PLACED IN THE CENTER OF CMU CELLS, UNLESS NOTED OTHERWISE.

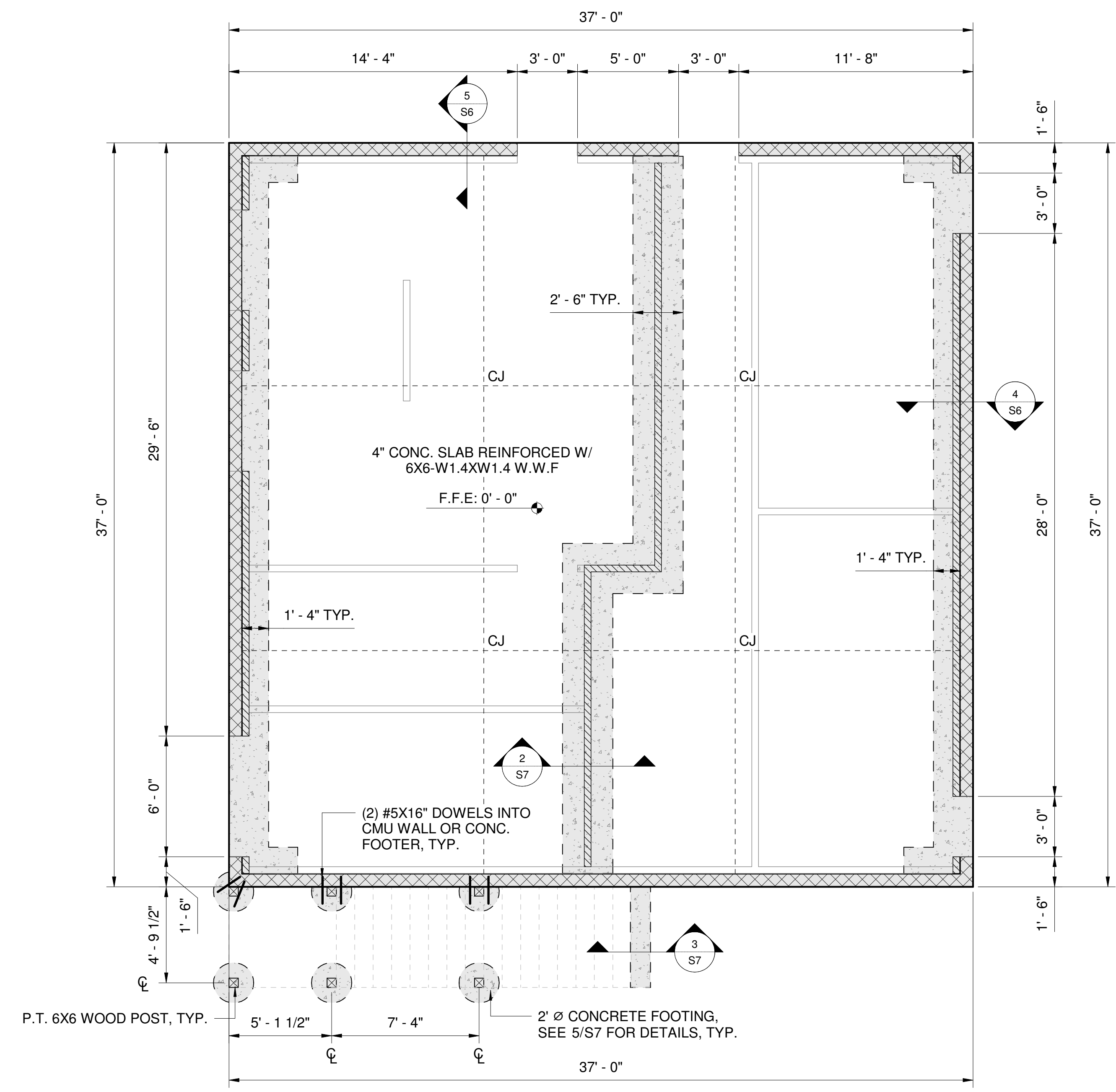
H. REINFORCEMENT SHALL BE SPLICED ONLY AT LOCATIONS SHOWN OR NOTED IN THE STRUCTURAL DOCUMENTS. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. REINFORCING STEEL SPLICES SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

BAR SIZE	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
LENGTH	20	26	32	38	63	78

D=6" d _s	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
A or G	6	8	10	12	14	16



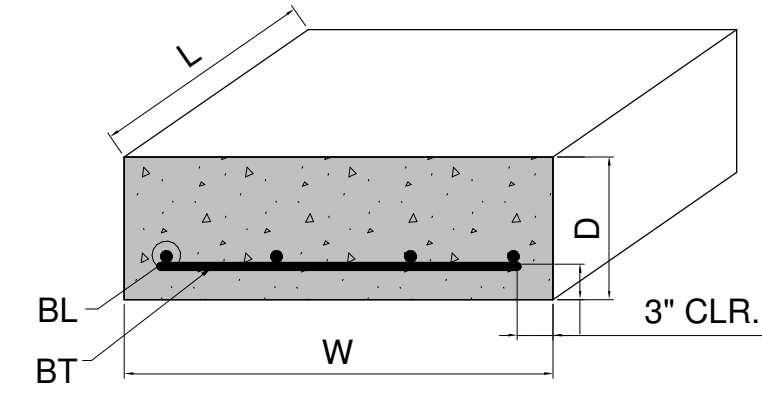
1 FOUNDATION PLAN
 1/4" = 1'-0"



2 SLAB PLAN
 1/4" = 1'-0"

NOTES:

- SLAB ON GRADE SHALL BE 4" THICK REINFORCED W/ 6X6-W1.4XW1.4 W.W.F.
- SEE ARCH. DRAWINGS FOR DIMENSIONS NOT SHOWN, SLOPES, DRAINS, OPENINGS, AND FLOOR RECESSES.
- CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIREMENTS DURING CONSTRUCTION.
- CJ - INDICATES LOCATION OF CONTROL JOINTS. SEE DETAIL 3/S5.
- INDICATES LOCATION OF 2X FRAMED INTERIOR LOAD BEARING WALL.
- INDICATES LOCATION OF FULLY GROUTED 8" CMU STEM WALL REINFORCED WITH # 5 VERTICAL REBARS @ 32" O/C AND PER DETAIL 9/S5.



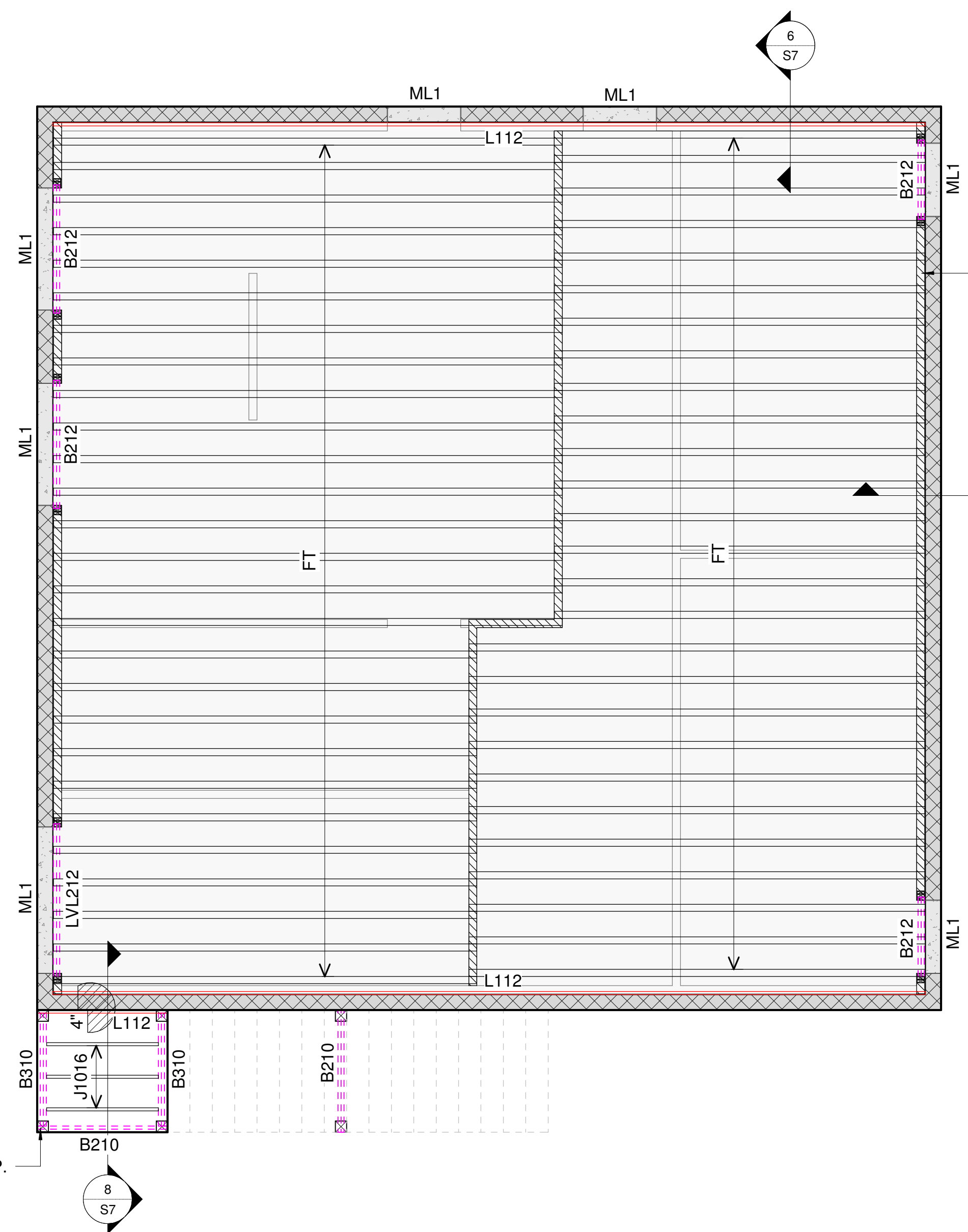
FOUNDATION SCHEDULE						
LABEL	TYPE	SIZE			BOTTOM REINFORCING	
		(W) WIDTH	(L) LENGTH	(D) DEPTH	BL, LONGITUDINAL	BT, TRANSVERSE
F26	CONT.	2' - 6"	CONT.	1' - 0"	3- #5 CONT.	(1) - #5 @ 14" O/C

DATE: _____
 DISTRIBUTION: _____

PROJECT: HELEN MCCALL PARK
 10 ACRE EXPANSION
 WALTON COUNTY FL.

SHEET TITLE: BUILDING A FOUNDATION & SLAB PLAN

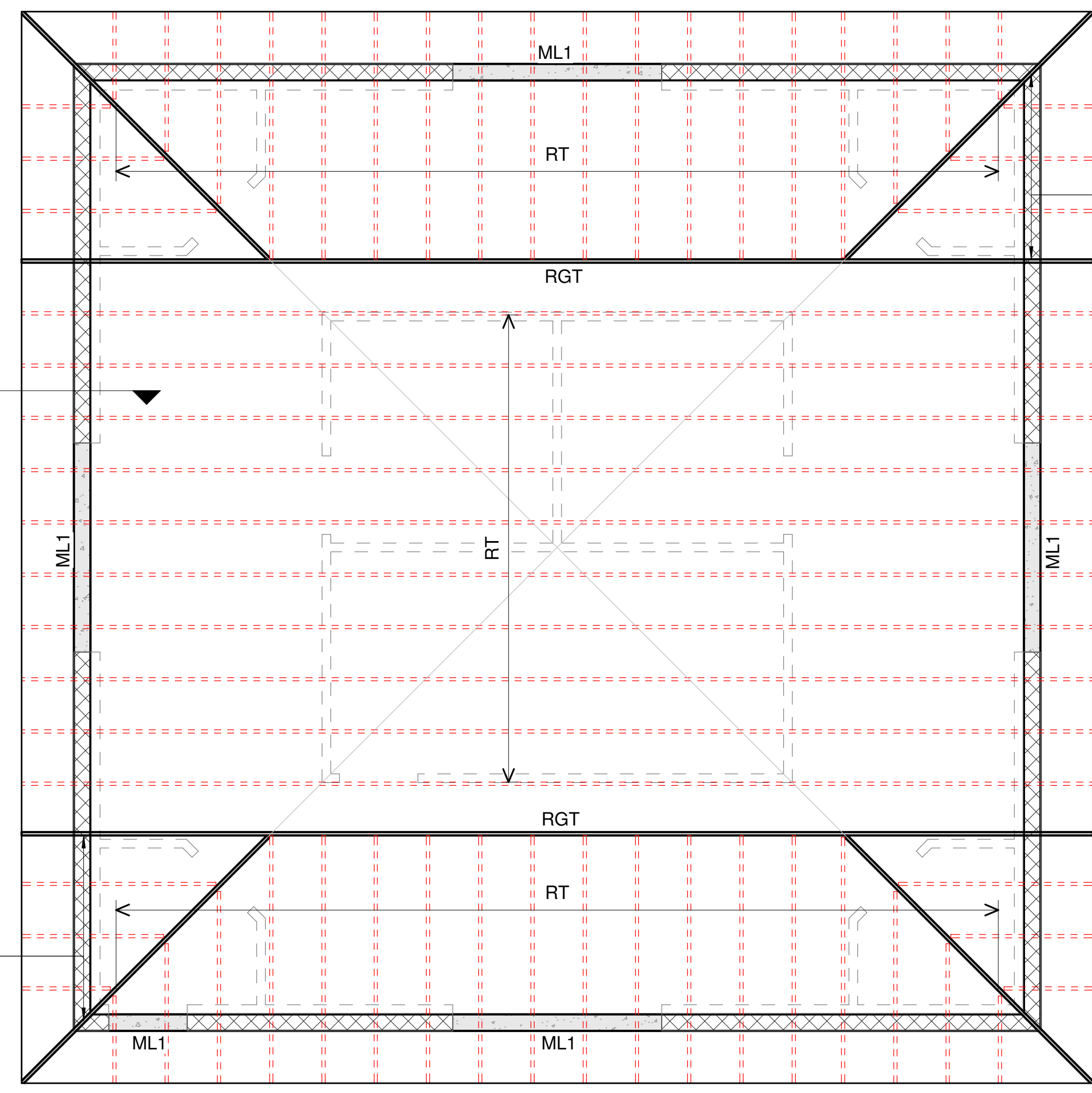
JOB No: 25-07-123.429
 DATE: 9/12/2025
 DRAWN BY: R.C.
 CHECKED BY: JHE



1 SECOND FLOOR FRAMING PLAN
 1/4" = 1'-0"

PROVIDE 2X BLOCKING BETWEEN STUDS @ MID-HEIGHT OF 1ST FLOOR LOAD BEARING WALLS, TYP.

TIE RGT DOWN TO BLOCK WALL W/ SIMPSON MTSM16 MASONRY HANGER, TYP.



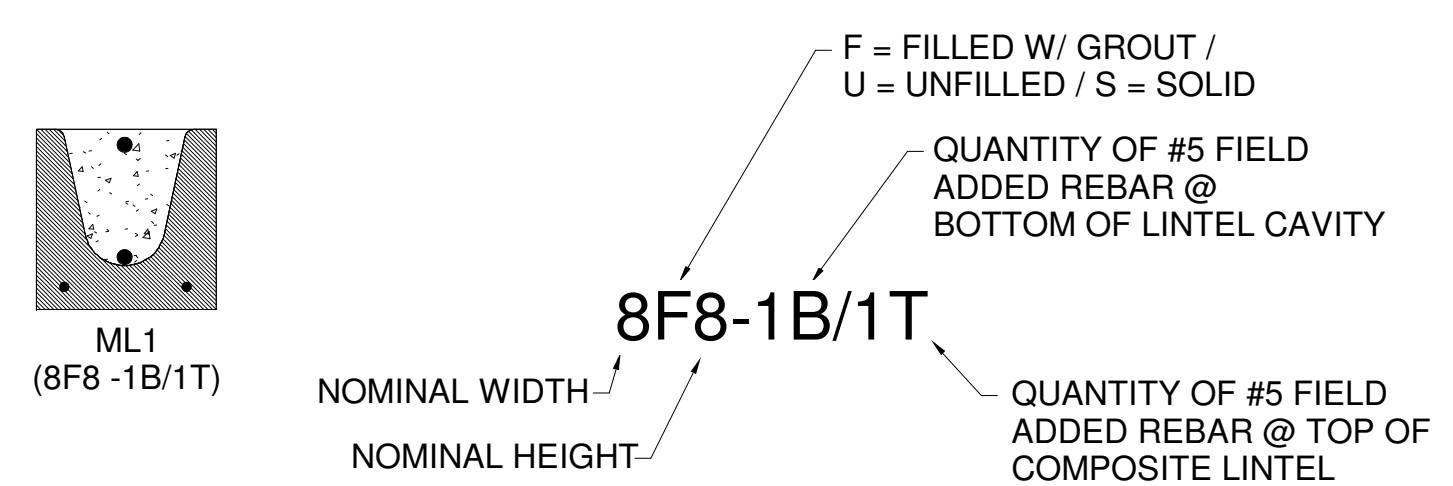
2 ROOF FRAMING PLAN
 1/4" = 1'-0"

TIE RGT DOWN TO BLOCK WALL W/ SIMPSON MTSM16 MASONRY HANGER, TYP.

NOTES:

- SEE ARCH. DRAWINGS FOR DIMENSIONS NOT SHOWN, SLOPES, DRAINS, OPENINGS, AND FLOOR RECESSES.
- TRUSS MANUF. TO REFER TO TRUSS DESIGN LOADS ON GENERAL NOTES SHEET.
- ALL WOOD LOAD BEARING HEADERS/BEAMS NOT SPECIFIED ON PLANS SHALL BE MIN. (3) 2X12 W/ (2) 1/2" PLYWOOD FLITCH PLATES TYP. FOR 2X6 WALLS AND (2) 2X12 1/2" PLYWOOD FLITCH PLATE FOR 2X4 WALLS (U.N.O.)
- ALL WOOD EXPOSED TO WEATHER SHALL BE PRESSURE TREATED UNLESS WATERPROOFED BY A CERTIFIED CONTRACTOR.
- ALL FASTENERS/STRAPS/CLIPS/HANGER ETC. THAT ARE LOCATED OUTSIDE THE BUILDING ENVELOPE OF THE HOUSE SHALL BE STAINLESS STEEL GR.304 OR GR. 316 OR GALVANIZED.
- ALL BEAM TO BEAM/WALL CONNECTIONS TO BE MADE WITH SIMPSON HUCQ612-SDS/HHU5.5/10 U.N.O.
- INDICATES LOCATION OF MIN. 4 PLY 2X STUD PACK STRAPPED TO BEAM/TRUSS ABOVE W/ (2) MTS20 STRAP OR APPROVED SIMILAR. ATTACH BASE OF ROOF SUPPORTING STUD PACKS TO FRAMING BELOW W/ (2) MTS20 STRAPS AND/OR TO CONCRETE FOUNDATION W/ SIMPSON HDU5-SDS2.5.
 - INDICATES LOCATION OF 2X FRAMED INTERIOR LOAD BEARING WALL.
 - INDICATES LOCATION OF FULLY GROUTED 8" CMU WALL REINFORCED WITH # 5 VERTICAL REBARS @ 32" O/C AND PER DETAIL 9/S5.
 - INDICATES LOCATION OF X" STEP.

CAST-CRETE LINTEL SCHEDULE

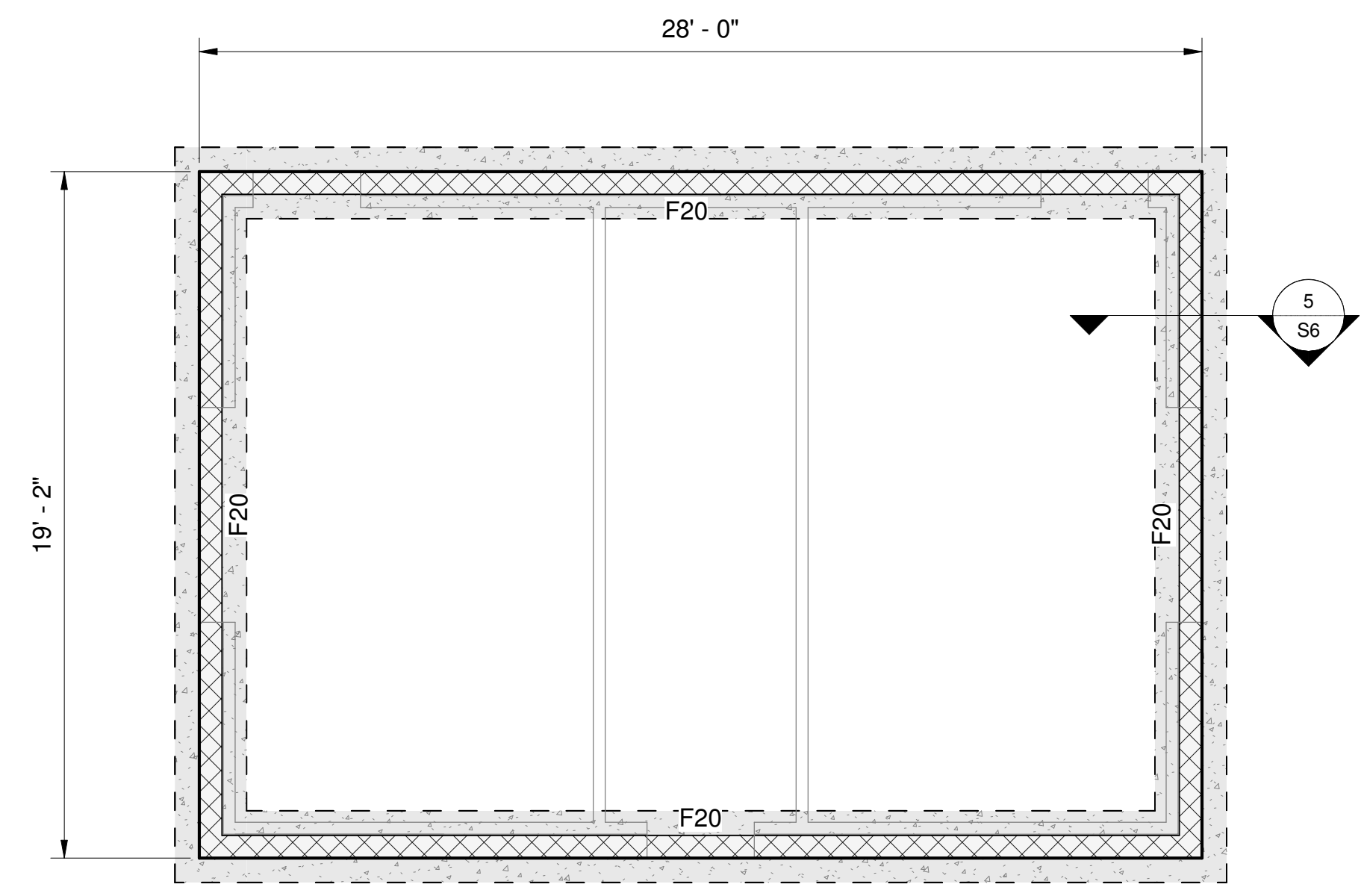


NOTES:

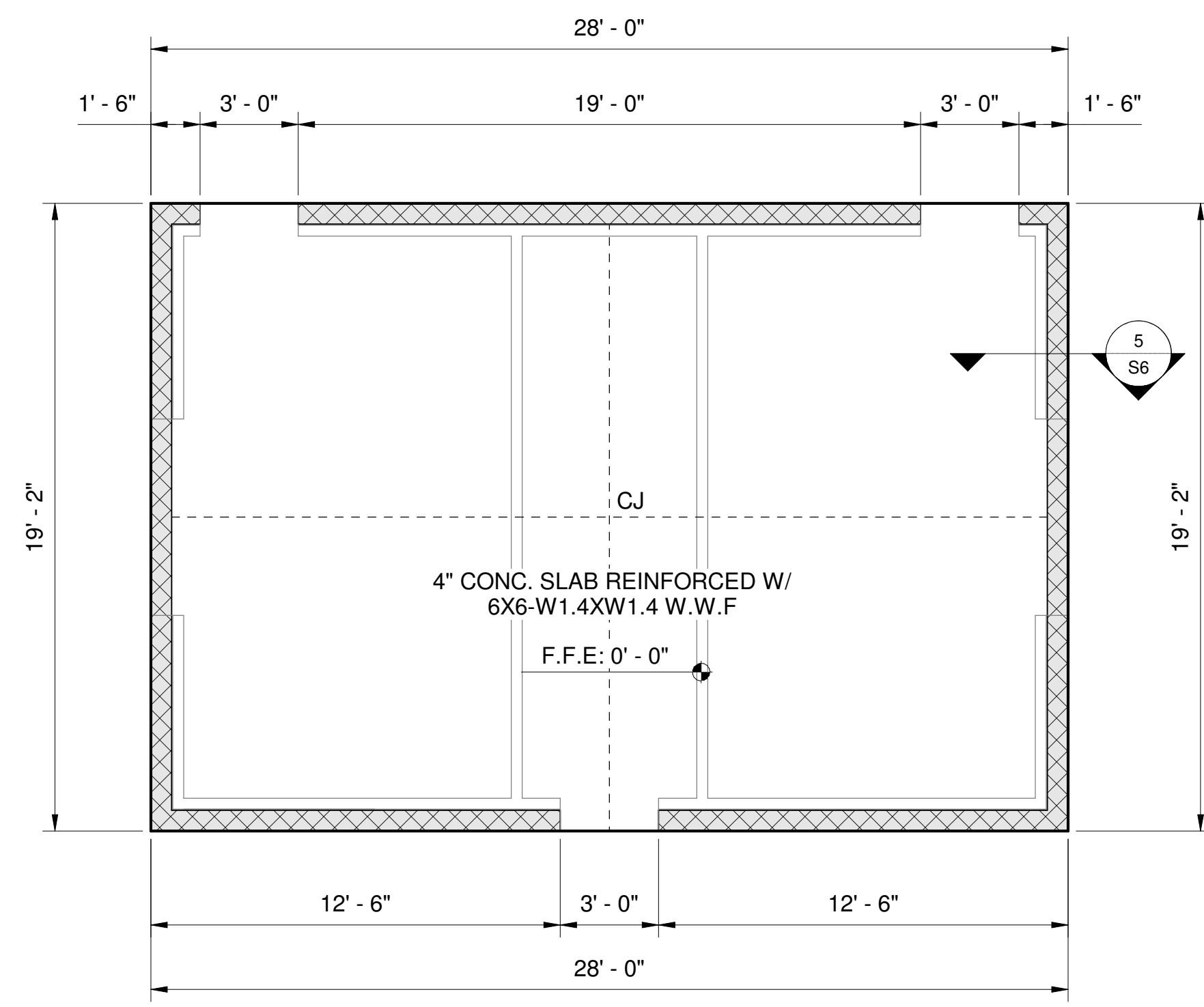
- ALL LINTELS SHALL HAVE 8" MIN. BEARING @ EA. END.
- ALL LINTELS SHALL BE FILLED W/ 4000 PSI GROUT MIN.
- DESIGN IS BASED ON CAST-CRETE PRECAST LINTEL TYPES.
- LINTELS THAT COVER SPAN 8'-0" AND GREATER SHALL BE PROVIDED WITH TEMPORARY SUPPORT AT MIDPOINT UNTIL GROUTED CONCRETE HAS REACHED FULL STRENGTH.

FRAMING LEGEND

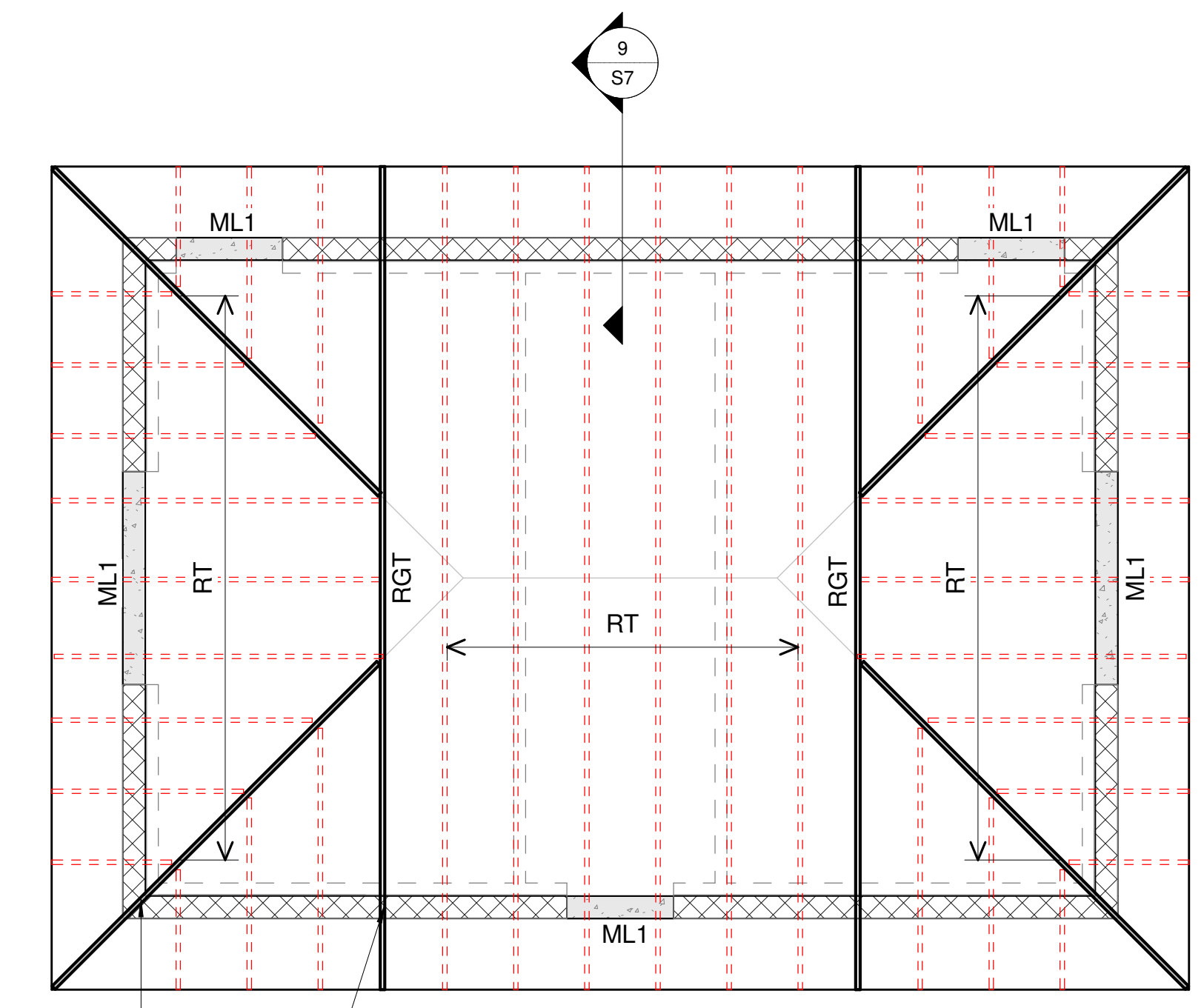
RT	PRE-ENGINEERED ROOF TRUSSES @ 24" O/C MAX.
RGT	PRE-ENGINEERED ROOF GIRDER TRUSS
FT	20" PRE-ENGINEERED FLOOR TRUSSES @ 16" O/C MAX
J1016	2X10 JOISTS @ 16" O/C MAX.
LVL212	DOUBLE 1.75"X 12" LVL BEAM
B212	DOUBLE 2X12 BEAM
B310	TRIPLE 2X10 BEAM
B210	DOUBLE 2X10 BEAM
L112	SINGLE 2X12 LEDGER BOARD



1 RESTROOM FOUNDATION PLAN
 1/4" = 1'-0"

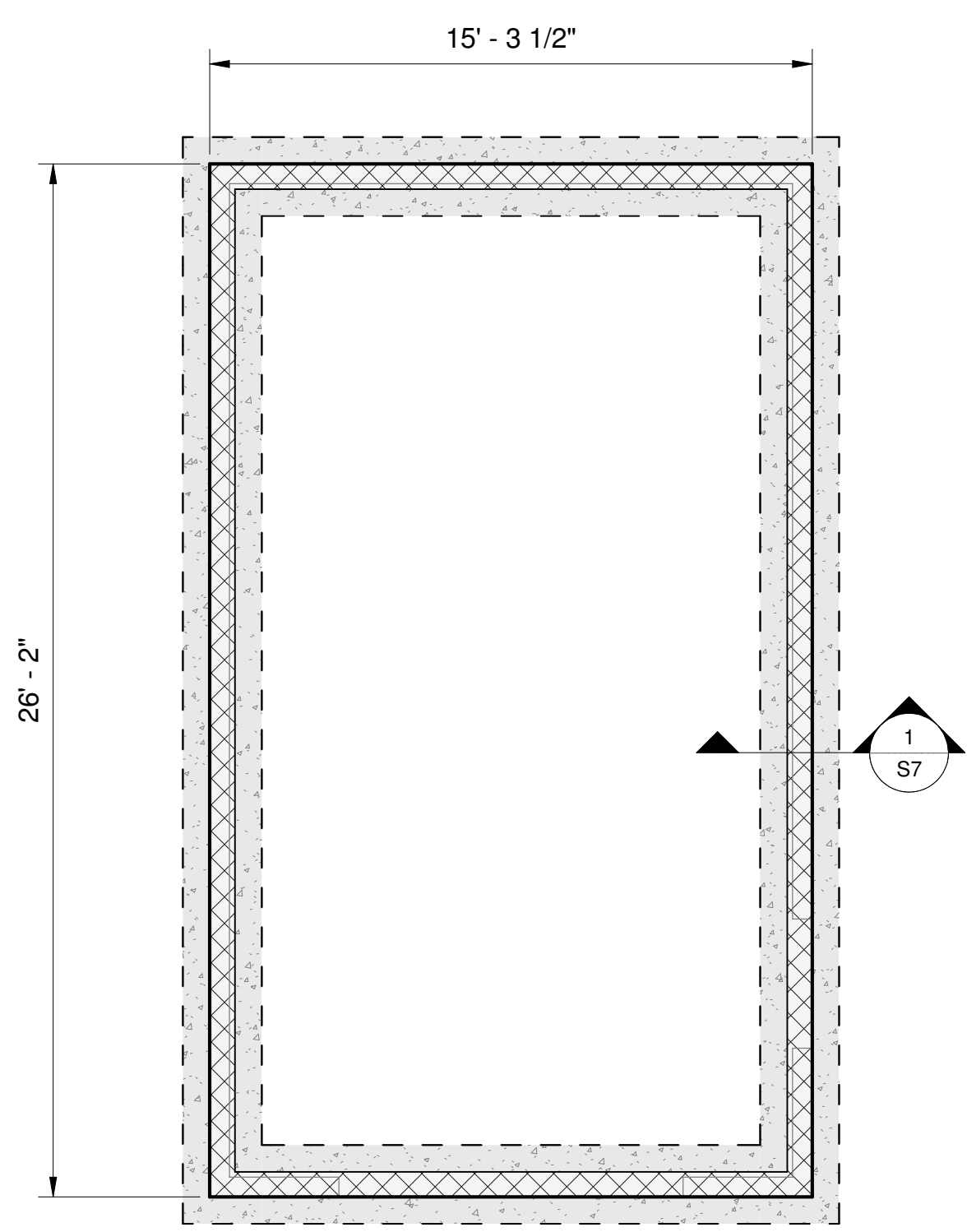


2 RESTROOM SLAB PLAN
 1/4" = 1'-0"

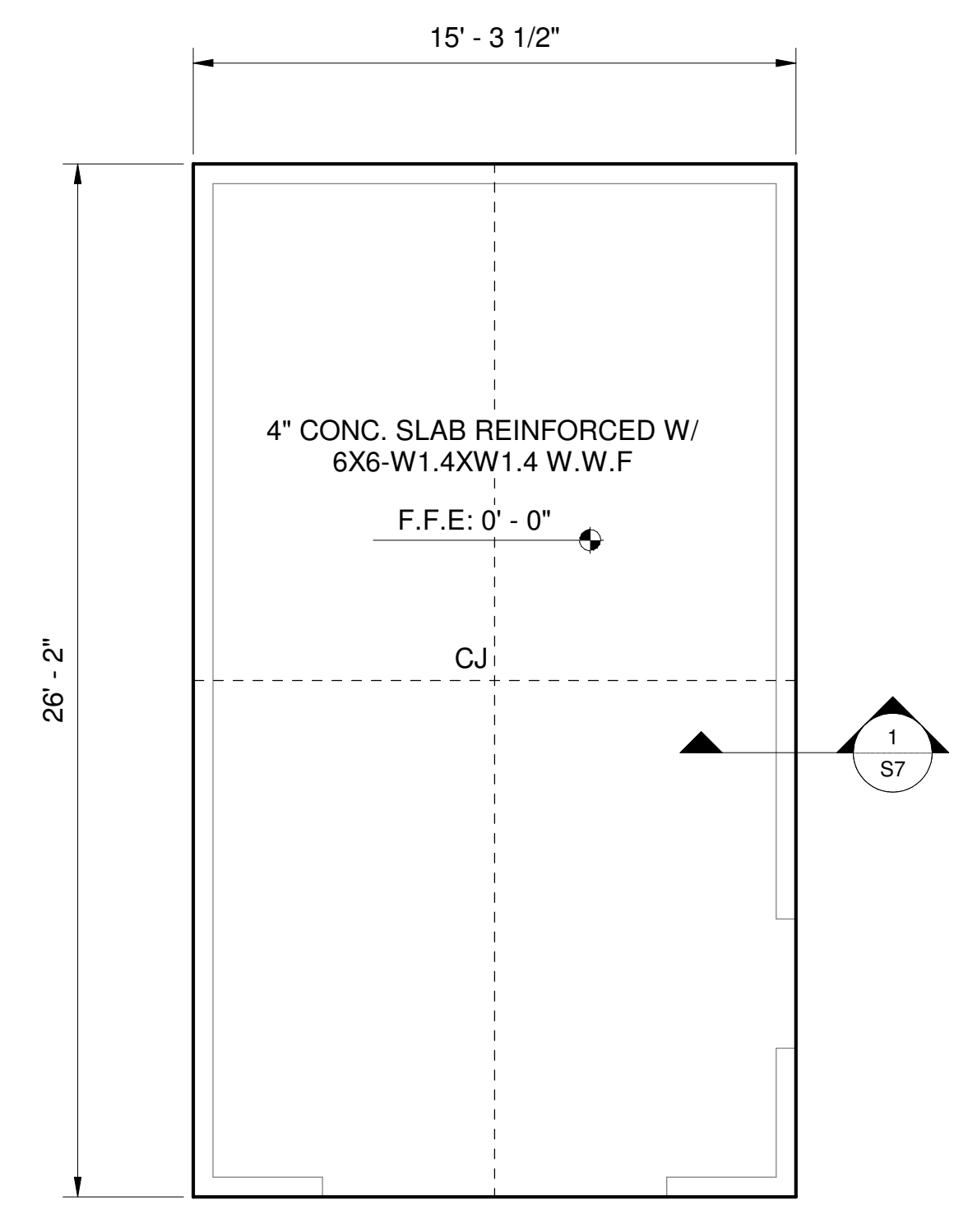


3 RESTROOM ROOF FRAMING PLAN
 1/4" = 1'-0"

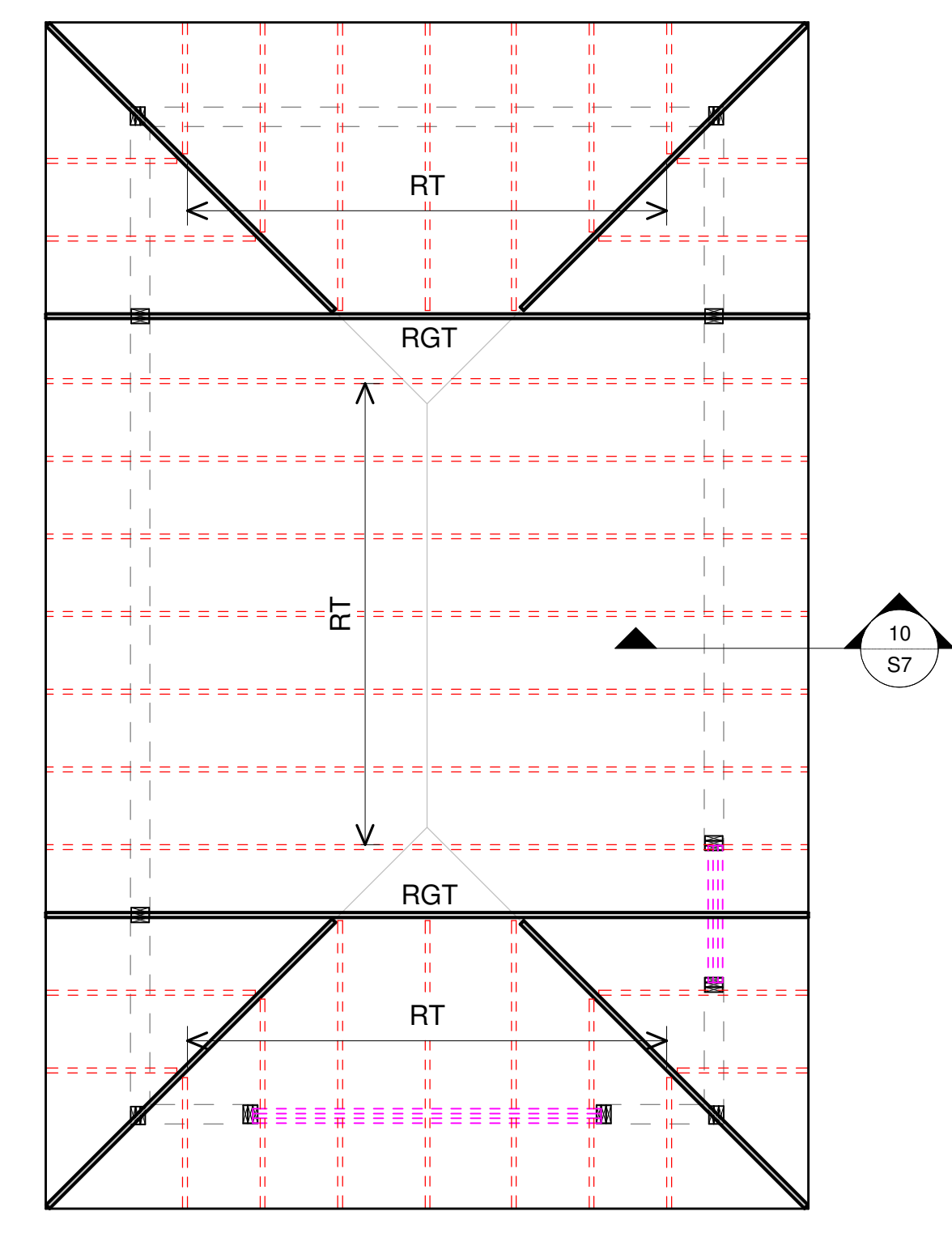
TIE RGT DOWN TO BLOCK WALL W/ SIMPSON MTSM16 MASONRY HANGER, TYP.



4 BUILDING B FOUNDATION PLAN
 1/4" = 1'-0"



5 BUILDING B SLAB PLAN
 1/4" = 1'-0"

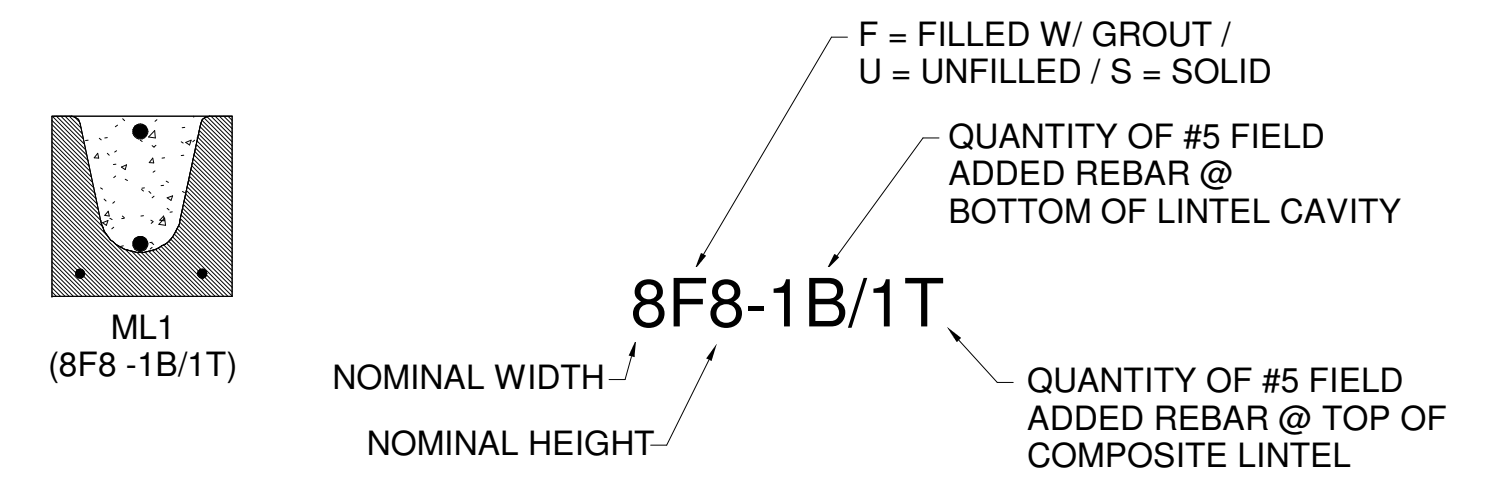


6 BUILDING B ROOF FRAMING PLAN
 1/4" = 1'-0"

NOTES:

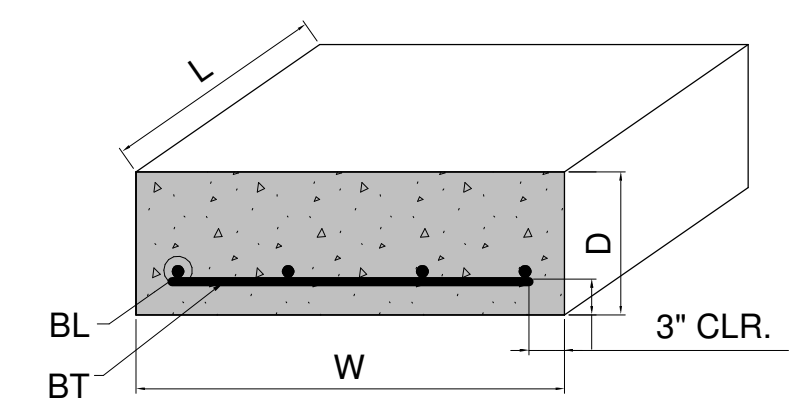
- SEE ARCH. DRAWINGS FOR DIMENSIONS NOT SHOWN, SLOPES, DRAINS, OPENINGS, AND FLOOR RECESSES.
- CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIREMENTS DURING CONSTRUCTION.
- TRUSS MANUF. TO REFER TO TRUSS DESIGN LOADS ON GENERAL NOTES SHEET.
- ALL WOOD LOAD BEARING HEADERS/BEAMS NOT SPECIFIED ON PLANS SHALL BE MIN. (3) 2X12 W/ (2) 1/2" PLYWOOD FLITCH PLATES TYP. FOR 2X6 WALLS AND (2) 2X12 1/2" PLYWOOD FLITCH PLATE FOR 2X4 WALLS (U.N.O.)
- ALL WOOD EXPOSED TO WEATHER SHALL BE PRESSURE TREATED UNLESS WATERPROOFED BY A CERTIFIED CONTRACTOR.
- ALL FASTENERS/STRAPS/CLIPS/HANGER ETC. THAT ARE LOCATED OUTSIDE THE BUILDING ENVELOPE OF THE HOUSE SHALL BE STAINLESS STEEL GR.304 OR GR. 316 OR GALVANIZED.
- CJ - INDICATES LOCATION OF CONTROL JOINTS. SEE DETAIL 3/S5.
- INDICATES LOCATION OF MIN. 4 PLY 2X STUD PACK STRAPPED TO BEAM/TRUSS ABOVE W/ (2) MTS20 STRAP OR APPROVED SIMILAR. ATTACH BASE OF ROOF SUPPORTING STUD PACKS TO FRAMING BELOW W/ (2) MTS20 STRAPS AND/OR TO CONCRETE FOUNDATION W/ SIMPSON HDU5-SDS2.5.
- INDICATES LOCATION OF FULLY GROUTED 8" CMU STEM WALL REINFORCED WITH # 5 VERTICAL REBARS @ 32" O/C AND PER DETAIL 9/S5.

CAST-CRETE LINTEL SCHEDULE



NOTES:

- ALL LINTELS SHALL HAVE 8" MIN. BEARING @ EA. END.
- ALL LINTELS SHALL BE FILLED W/ 4000 PSI GROUT MIN.
- DESIGN IS BASED ON CAST-CRETE PRECAST LINTEL TYPES.
- LINTELS THAT COVER SPAN 8'-0" AND GREATER SHALL BE PROVIDED WITH TEMPORARY SUPPORT AT MIDPOINT UNTIL GROUTED CONCRETE HAS REACHED FULL STRENGTH.



FOUNDATION SCHEDULE						
LABEL	TYPE	SIZE			BOTTOM REINFORCING	
		(W) WIDTH	(L) LENGTH	(D) DEPTH	BL, LONGITUDINAL	BT, TRANSVERSE
F20	CONT.	2' - 0"	CONT.	1' - 0"	2- #5 CONT.	(1) - #5 @ 14" O/C

FRAMING LEGEND

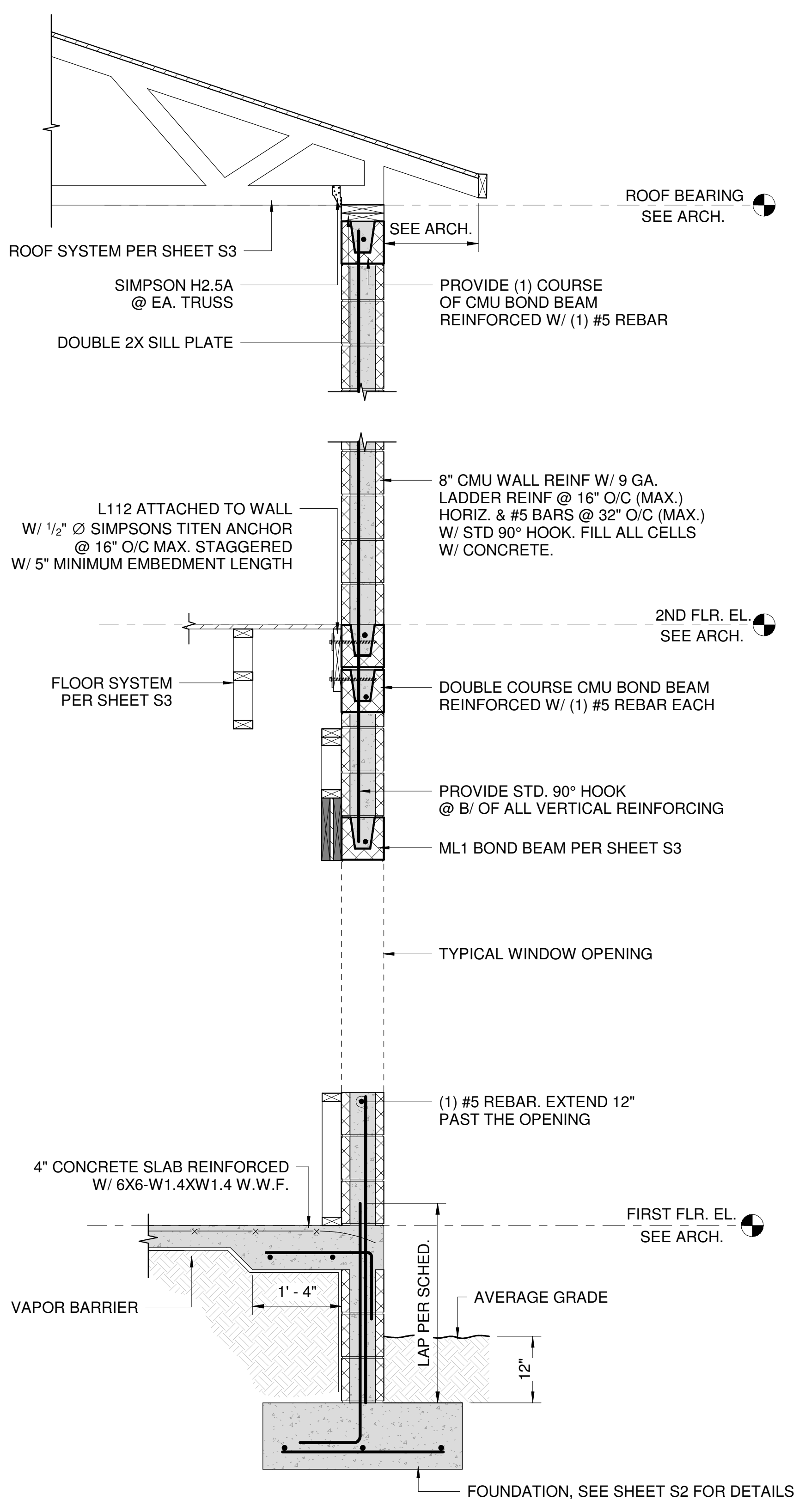
RT	PRE-ENGINEERED ROOF TRUSSES @ 24" O/C MAX.
RGT	PRE-ENGINEERED ROOF GIRDER TRUSS

DATE: _____
 DISTRIBUTION: _____

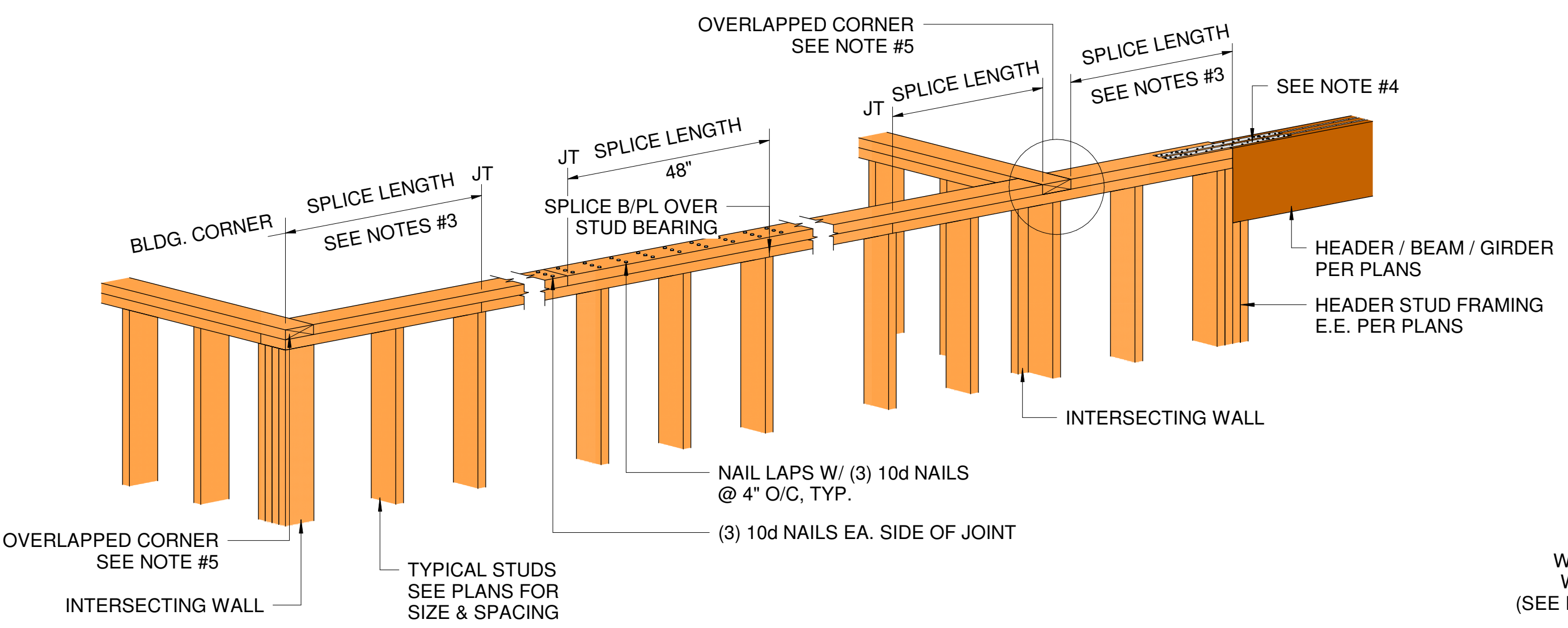
HELEN MCCALL PARK
 10 ACRE EXPANSION
 WALTON COUNTY FL.

PROJECT: FOUNDATION, SLAB & ROOF
 SHEET TITLE: FRAMING PLAN

JOB No: 25-07-123.429
 DATE: 9/12/2025
 DRAWN BY: R.C.
 CHECKED BY: JHE

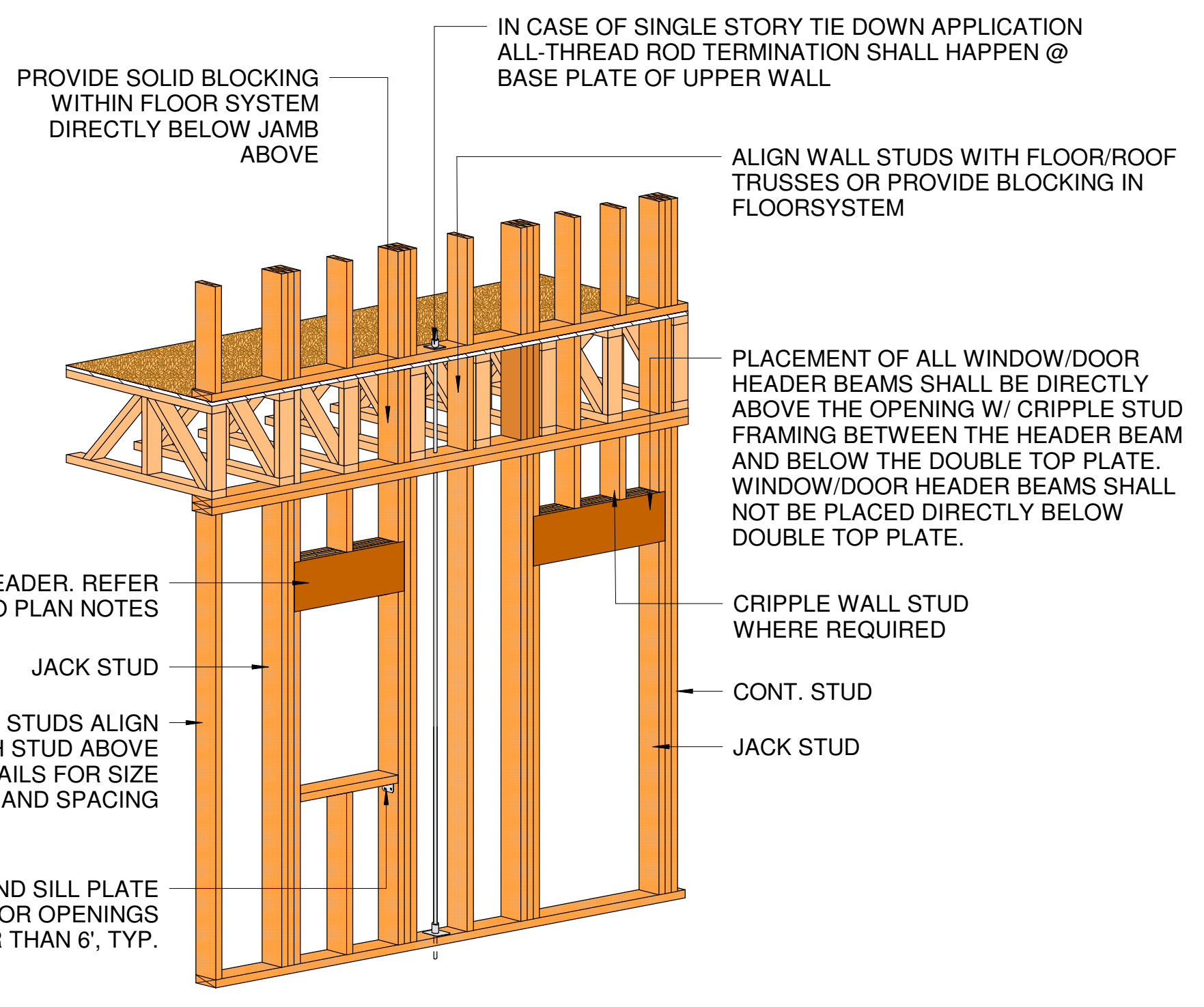


1 TYPICAL CMU WALL SECTION



- NOTE:
- WOOD STUD WALLS SHALL BE CAPPED WITH A DOUBLE TOP PLATE INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND INTERSECTIONS WITH BEARING PARTITIONS.
 - NAIL TOP PLATE MEMBERS ALONG LENGTH WITH (2) 10D BOX (3" X 0.128" OR 3" X 0.131") NAILS @ 12" O/C.
 - END JOINTS IN TOP PLATES SHALL BE OFFSET NOT LESS THAN 24 INCHES.
 - OMISSION OF THE TOP PLATE IS PERMITTED OVER HEADERS WHERE THE HEADERS ARE ADEQUATELY TIED TO ADJACENT WALL SECTIONS USING A (2) SIMPSON LSTA24 STRAPS. FILL ALL HOLES W/ 10d NAILS.
 - CONNECT TOP PLATE LAPPED CORNERS AND INTERSECTIONS WITH MIN. (5) 10d NAILS.
 - ALL WALL FRAMING MEMBER CONNECTIONS NOT NOTED OR SHOWN SHALL MEET THE MINIMUM REQUIREMENTS OF 2023 FBC TABLE R602.3(1) FASTENING SCHEDULE U.N.O.

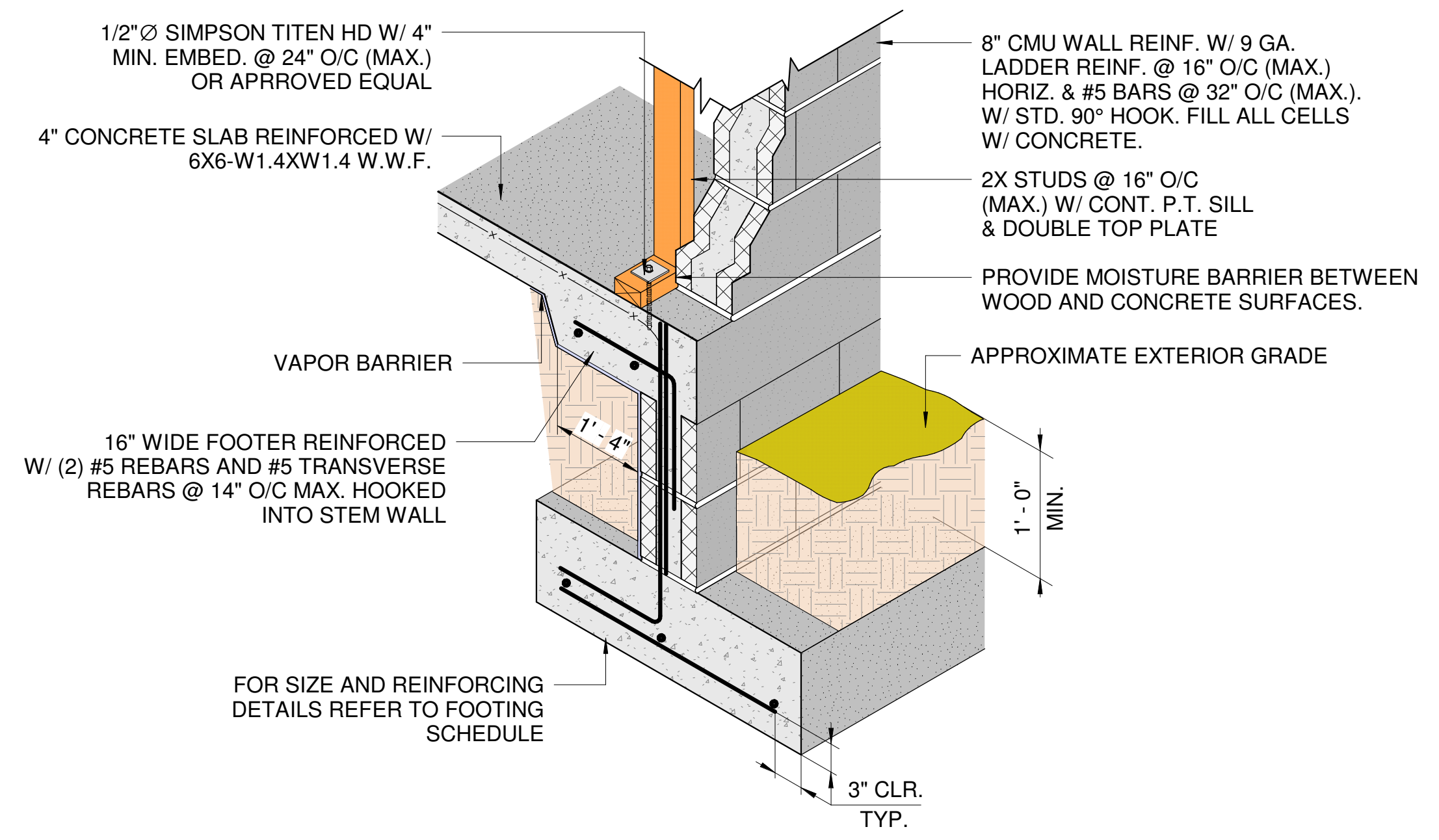
2 TOP PLATE SPLICING DETAIL



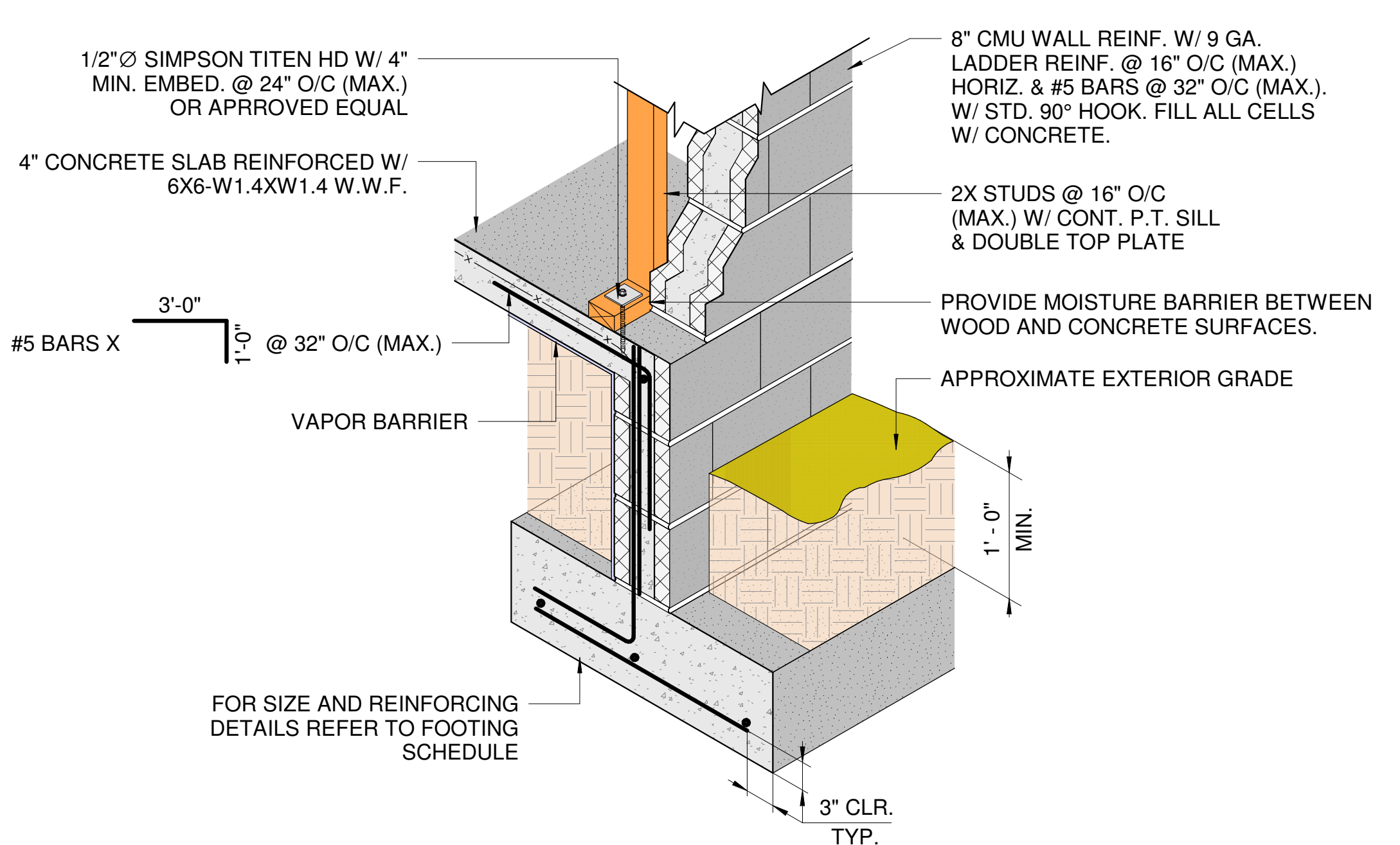
ROUGH OPENING FRAMING TABLE

UP TO 3'-0" R.O.		3'-1" TO 6'-0" R.O.		6'-1" TO 10'-0" R.O.	
CONT.	JACK	CONT.	JACK	CONT.	JACK
2-2X6	1-2X6	2-2X6	2-2X6	3-2X6	3-2X6

3 TYPICAL WALL FRAMING DETAIL @ HEADERS



4 TYP. FOUNDATION DETAIL @ EXT. WALL



5 TYP. FOUNDATION DETAIL @ EXT. WALL

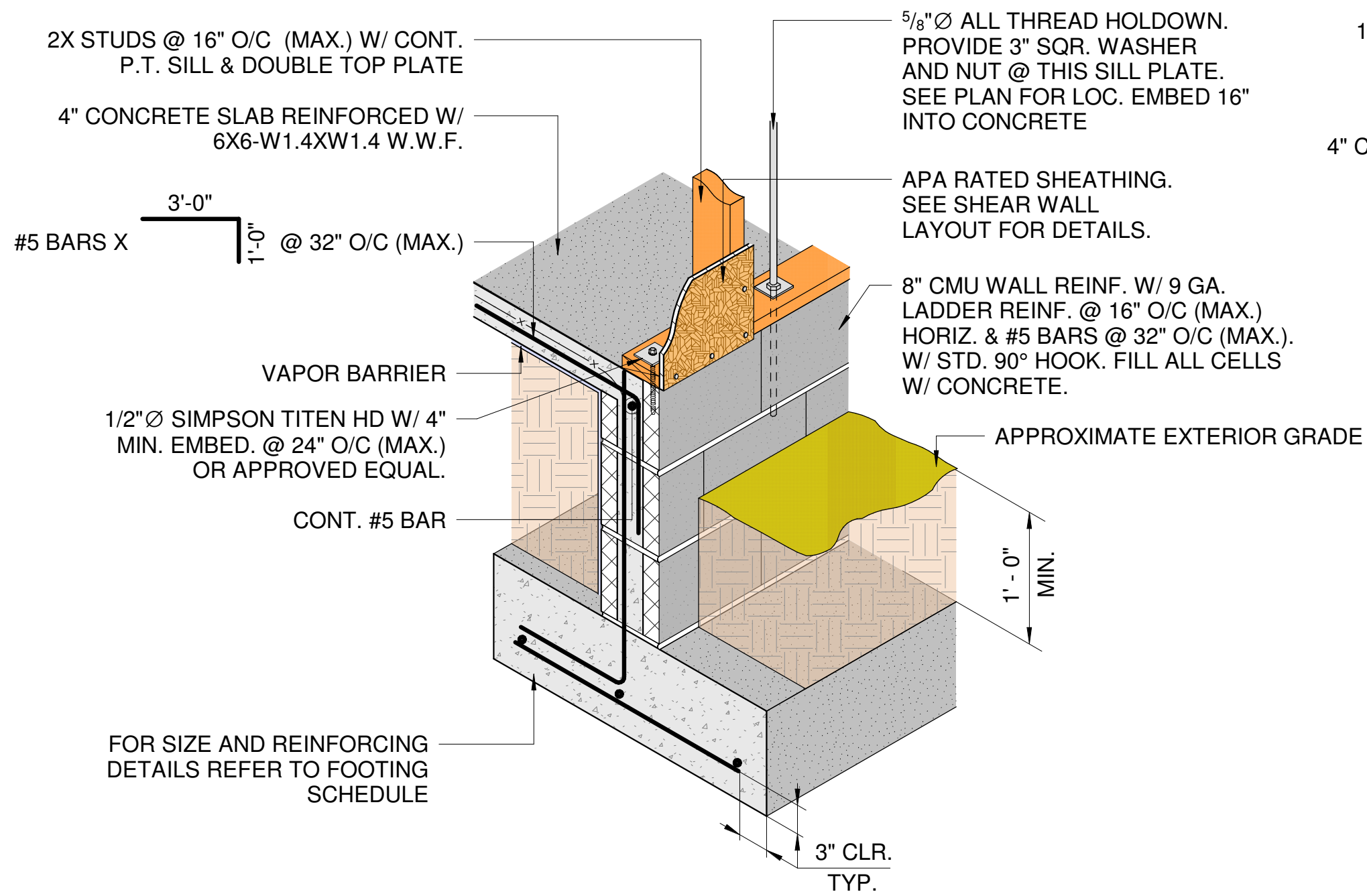
DATE: _____
 DISTRIBUTION: _____

HELEN MCCALL PARK
 10 ACRE EXPANSION
 WALTON COUNTY FL.

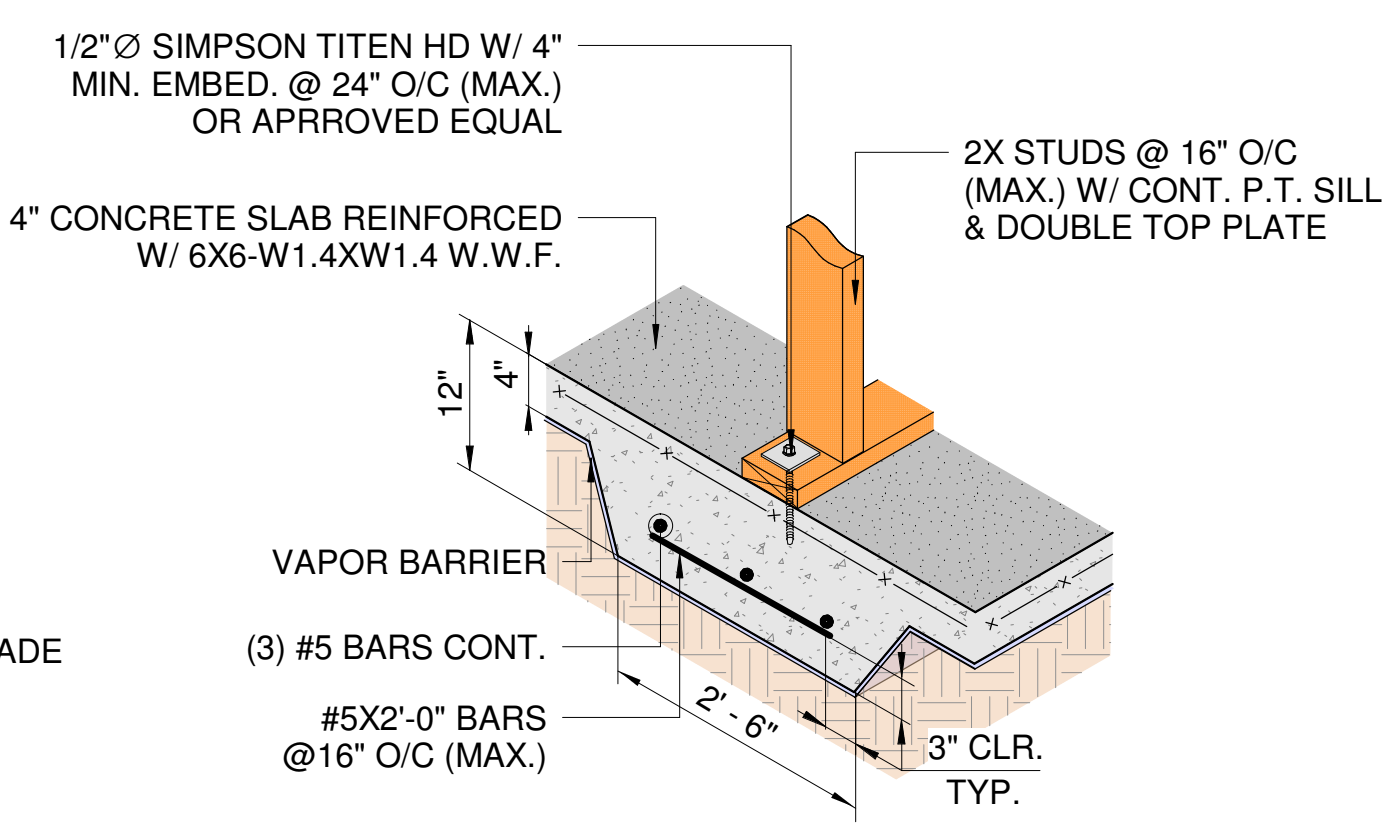
PROJECT:

SHEET TITLE: TYPICAL DETAILS

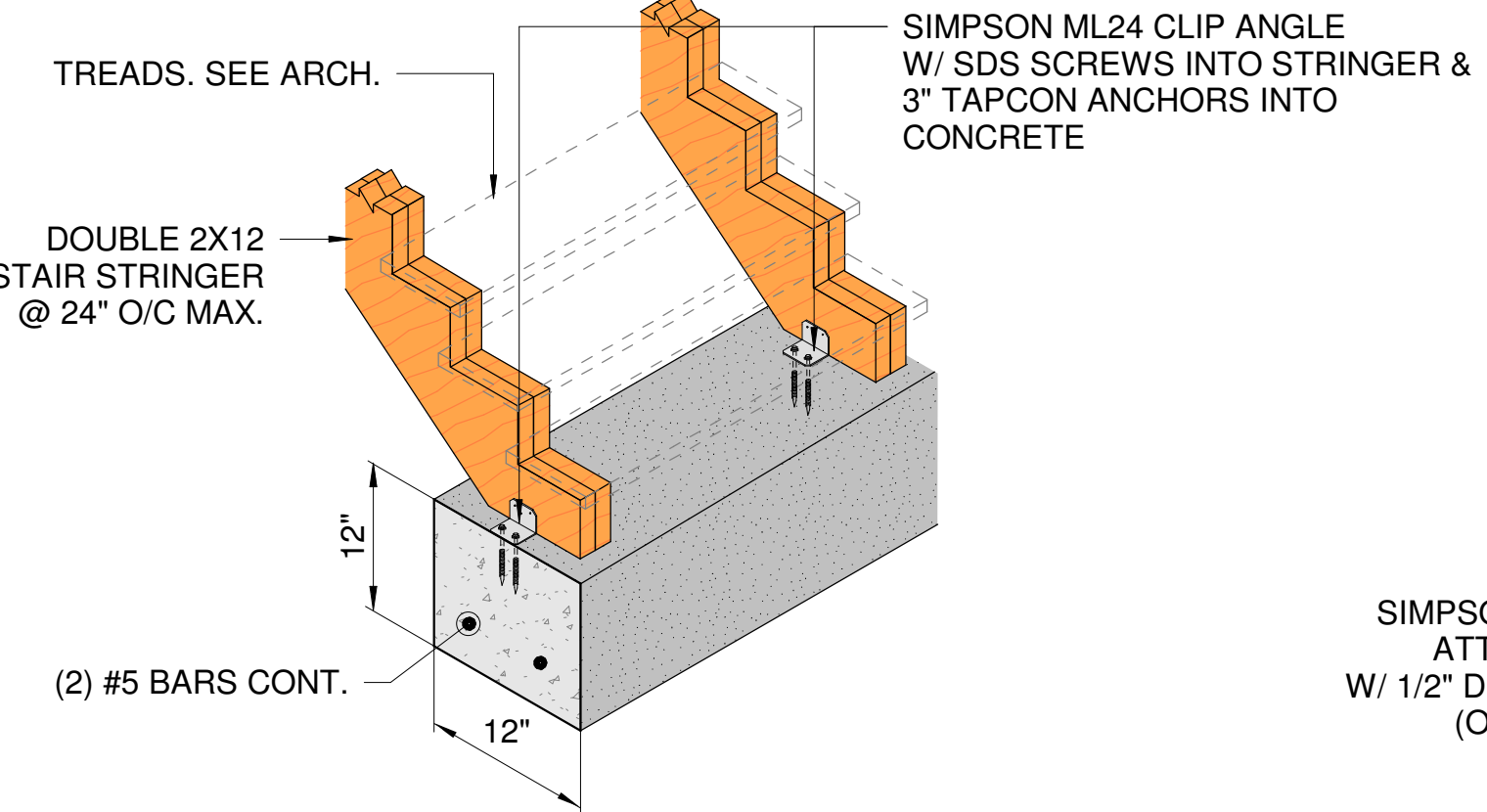
JOB No: 25-07-123.429
 DATE: 9/12/2025
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 CHECKED BY: JHE



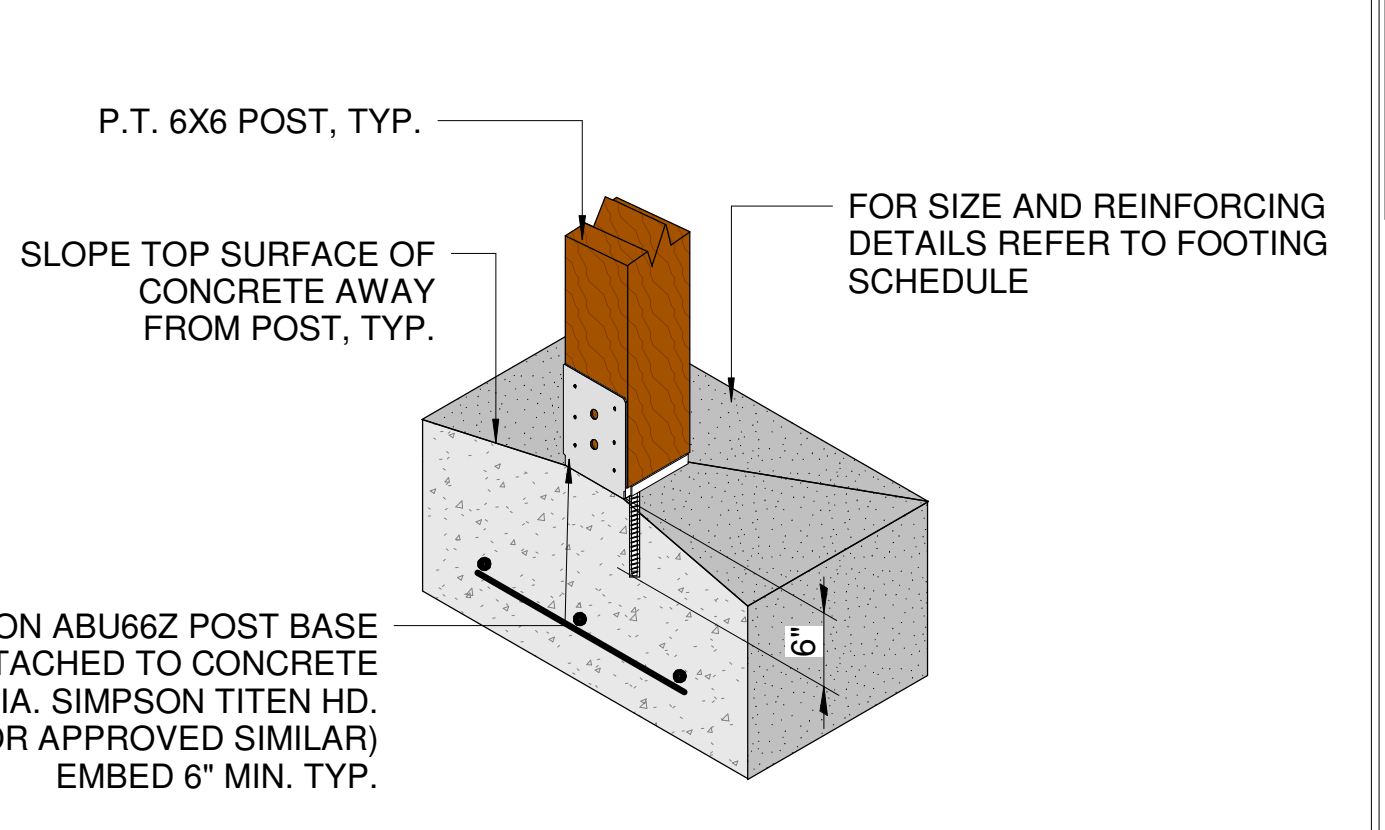
1 TYP. FOUNDATION DETAIL @ EXT. WALL



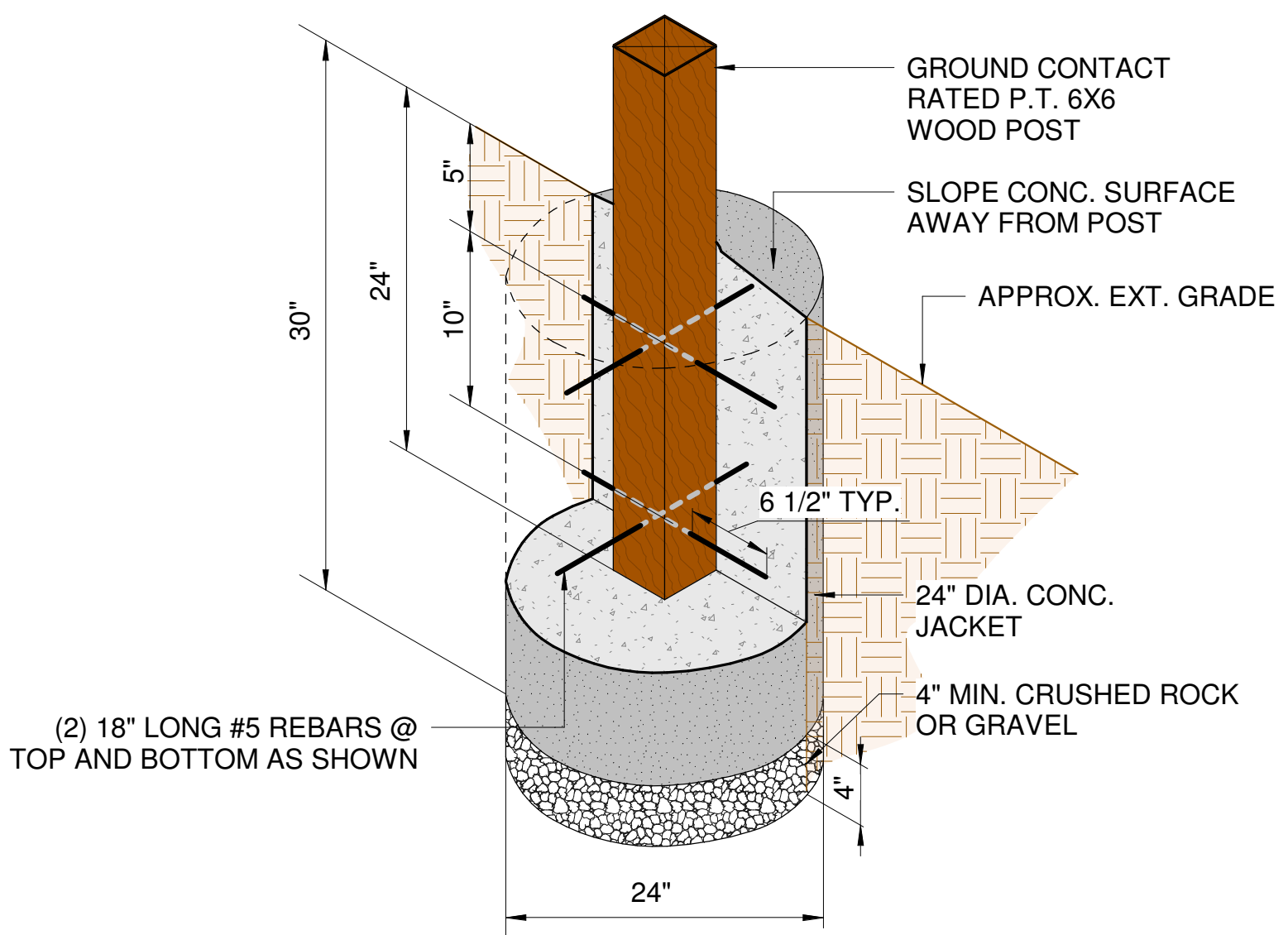
2 TYP. FOUNDATION DETAIL @ LOAD BEARING WALL



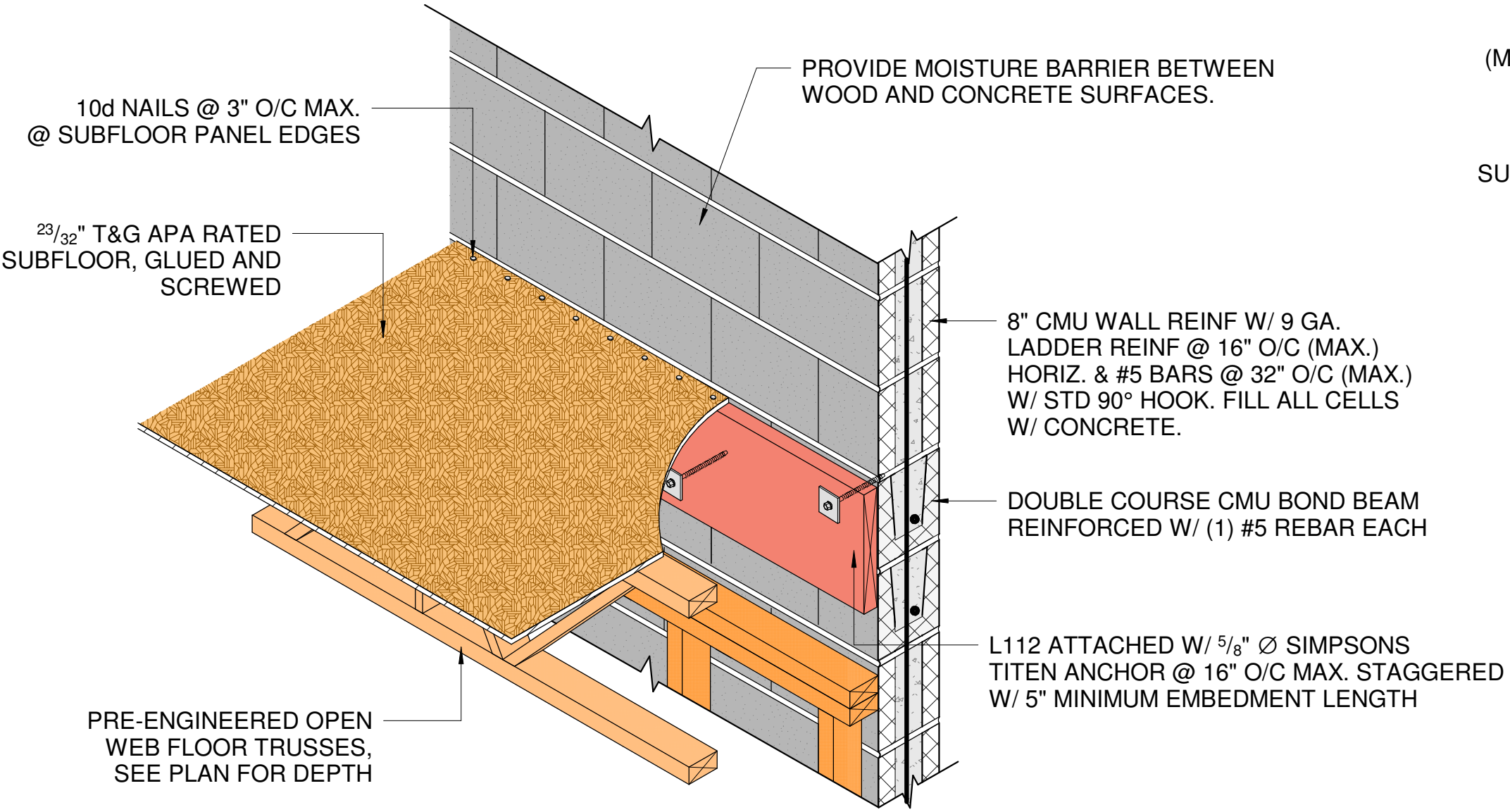
3 TYP. FOUNDATION DETAIL @ STAIR



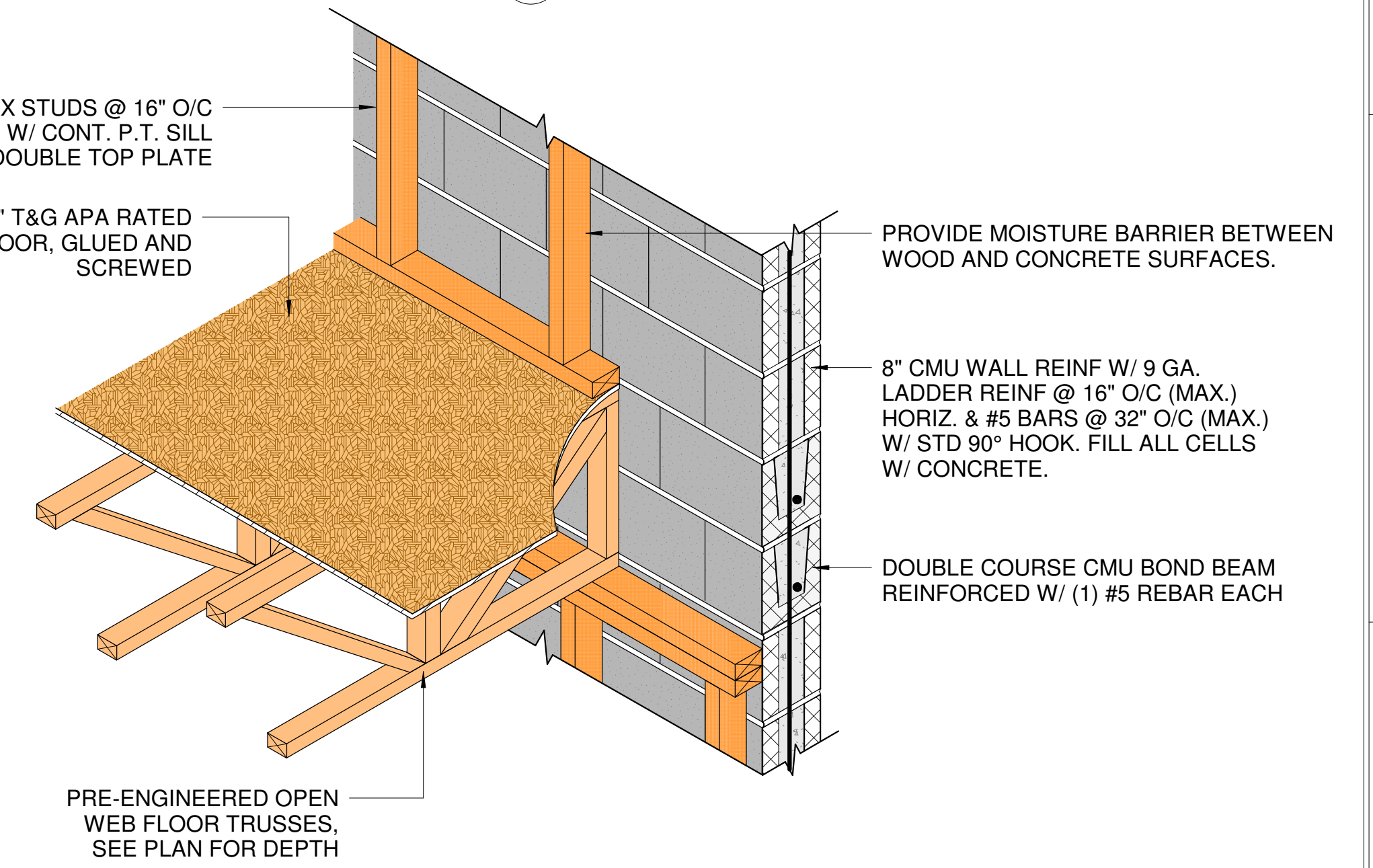
4 TYP. FOUNDATION DETAIL @ 6X6 POST



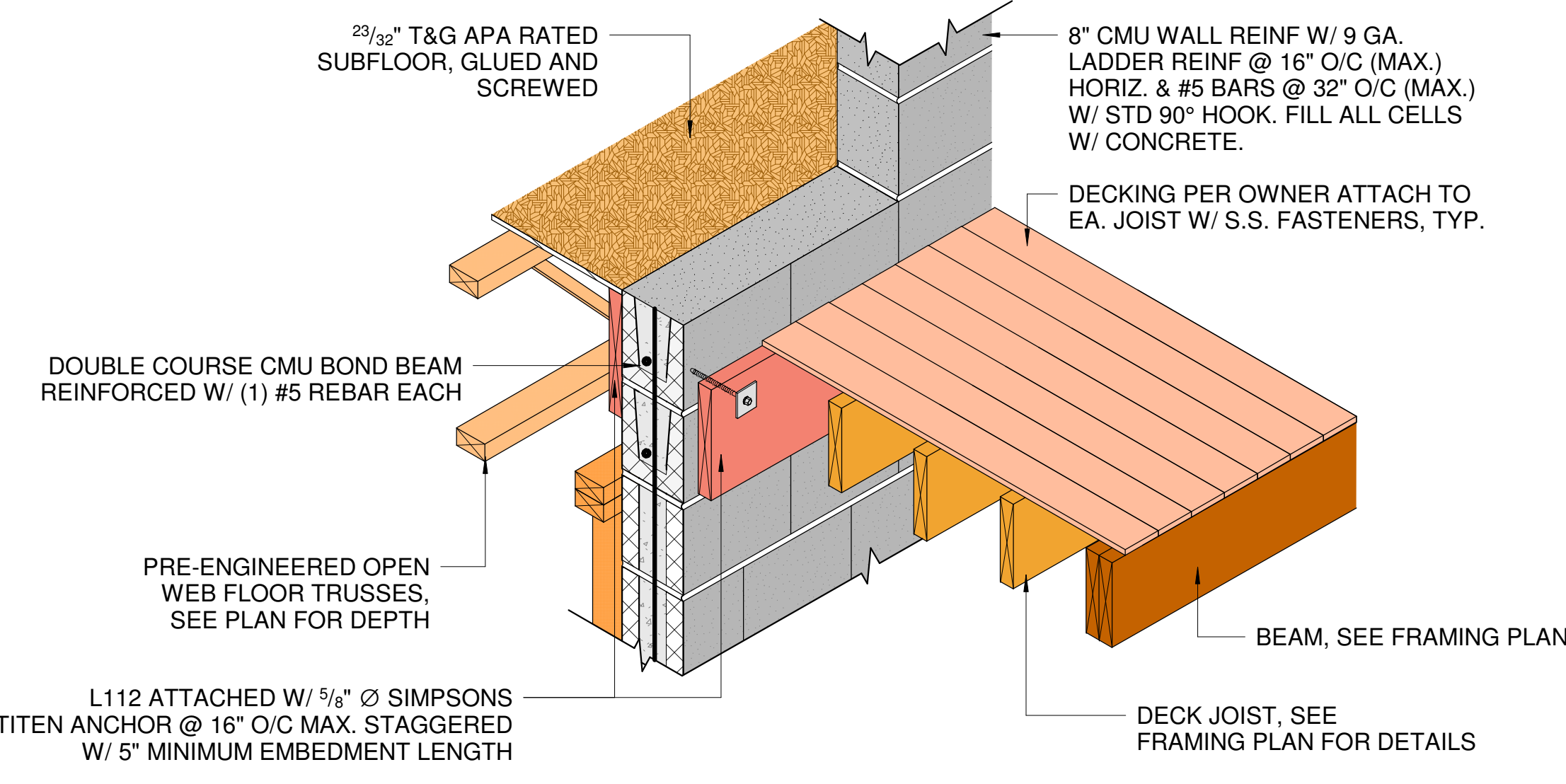
5 ALTERNATIVE FOUNDATION DETAIL @ 6X6 POST



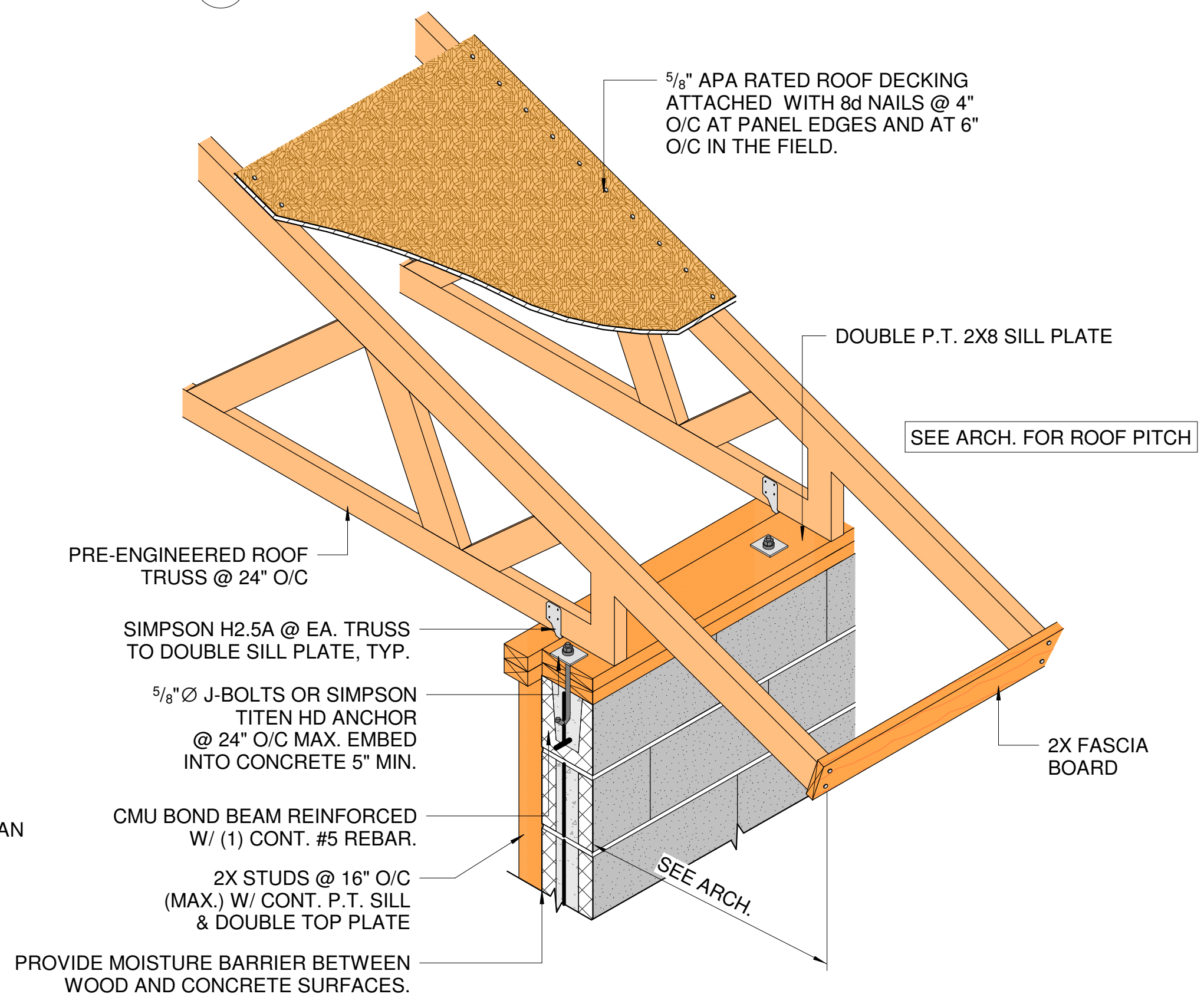
6 TYP. FRAMING DETAIL @ EXT. WALL



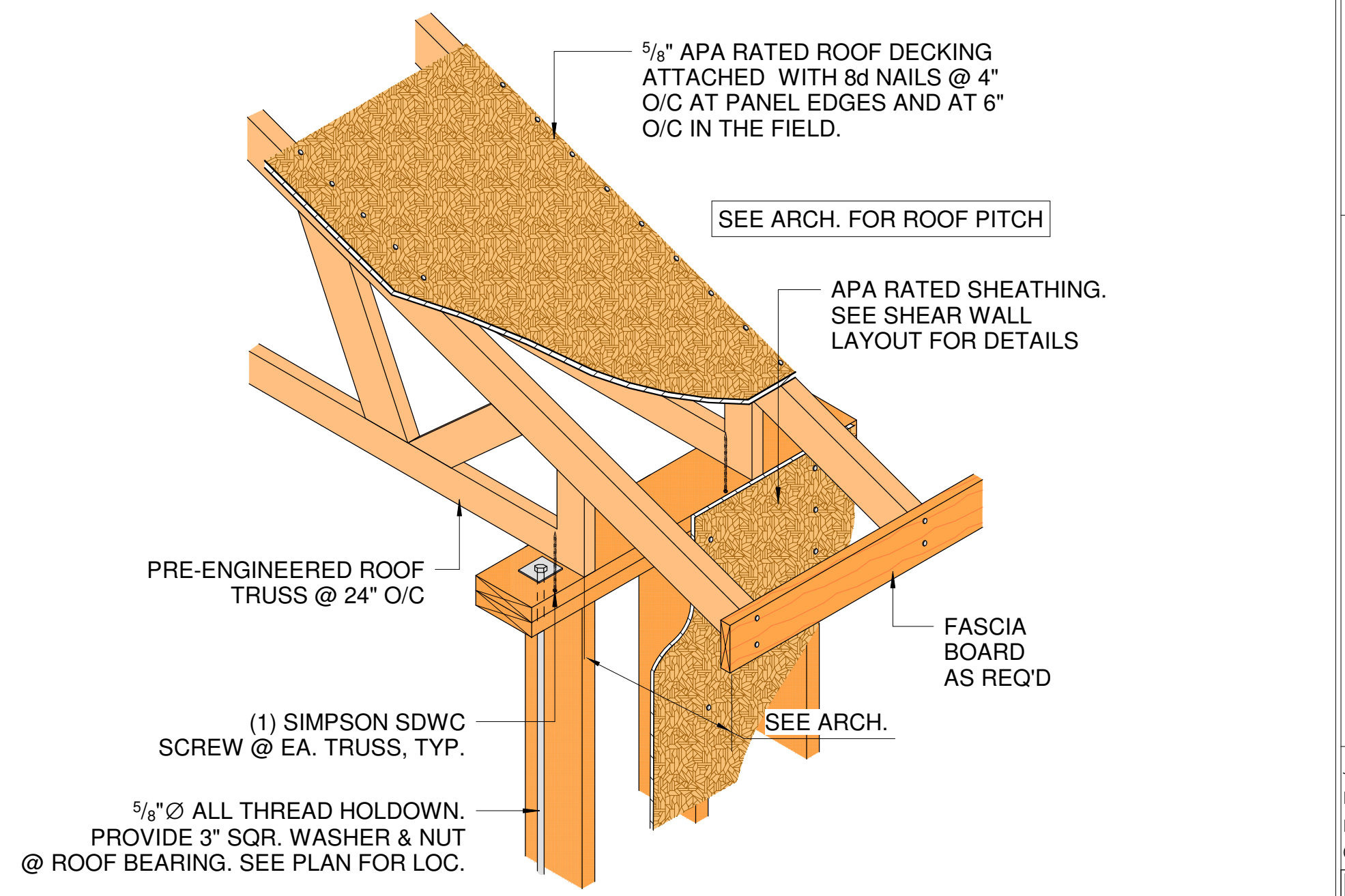
7 TYP. FRAMING DETAIL @ EXT. WALL



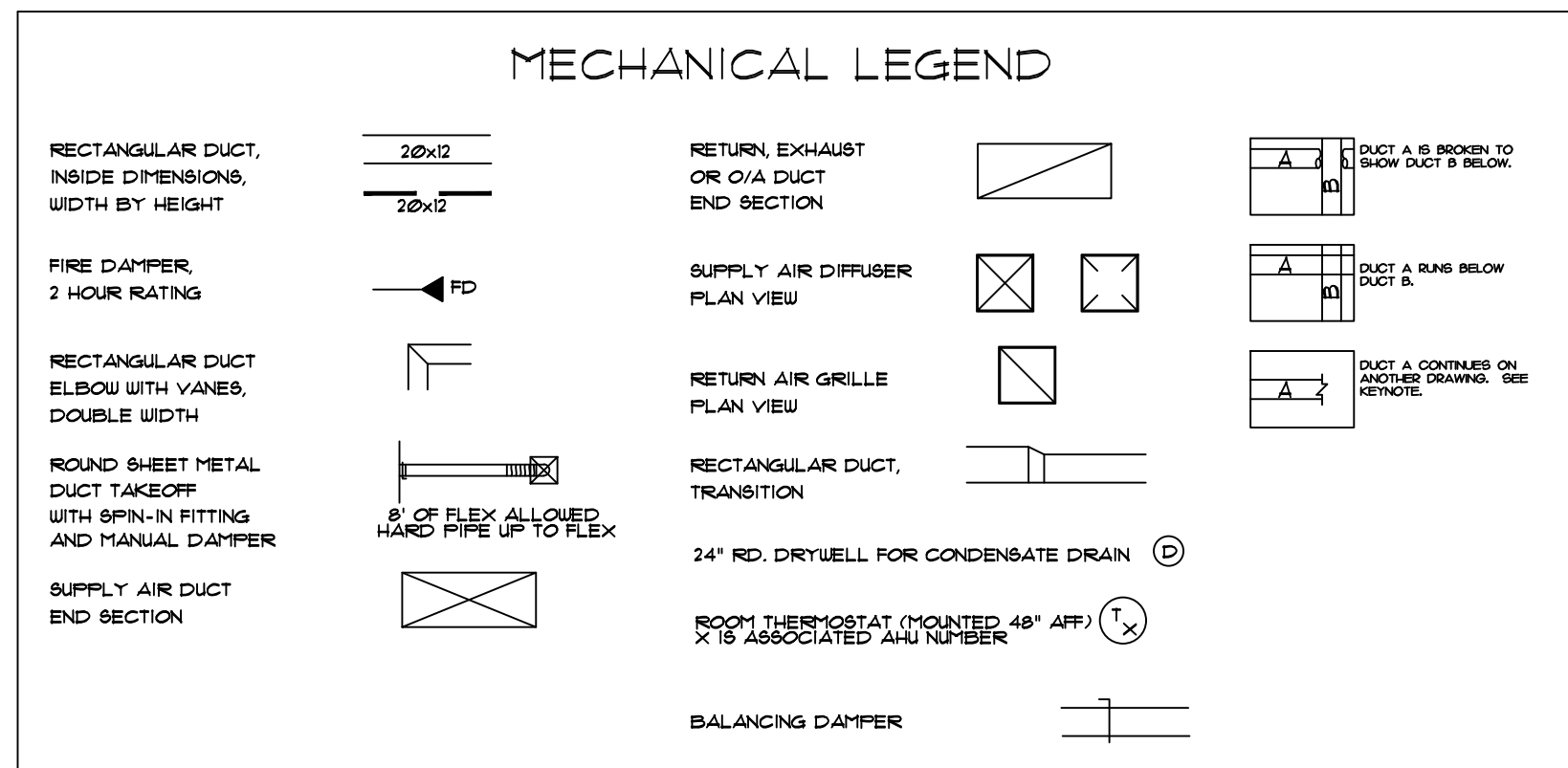
8 TYP. FRAMING DETAIL @ DECK



9 TYP. FRAMING DETAIL @ ROOF



10 TYP. FRAMING DETAIL @ ROOF



MECHANICAL GENERAL NOTES

1. THE WORK DESCRIBED HEREINAFTER SHALL BE INSTALLED SUBJECT TO THE NON TECHNICAL SPECIFICATIONS. THIS SECTION APPLIES TO ALL AIR CONDITIONING, SHEETMETAL, PIPING, AND AUTOMATIC TEMPERATURE CONTROL WORK.

2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK WITH THAT OF OTHER TRADES. SEE ARCHITECTURAL SECTIONS FOR A DESCRIPTION OF WORK AND SEQUENCE OF CONSTRUCTION. THE DRAWINGS ARE ESSENTIALLY DIAGNOSTIC IN NATURE. THEY ARE, HOWEVER, AS ACCURATE AS SCALE PERMITS AND THE CONTRACTOR SHALL FOLLOW THEM AS CLOSELY AS POSSIBLE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL CONDITIONS RELATING TO THE WORK IN THE FIELD PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL VERIFY ALL WALLS, PARTITIONS, AND STRUCTURAL SYSTEMS BEFORE INSTALLATION AND FABRICATION OF ANY DUCTWORK OR PIPING SYSTEMS. ALL OFFSETS REQUIRED FOR INSTALLATION OF DUCTWORK, OR PIPING SHALL BE INCLUDED IN THE SCOPE OF WORK AT NO ADDITIONAL COST TO THE OWNER. THE ENGINEER SHALL BE THE SOLE INTERPRETER OF THE DRAWINGS.

3. ALL MATERIALS SHALL BE NEW AND OF BEST QUALITY AND SHALL BE THE PRODUCTS OF REPUTABLE MANUFACTURERS. MATERIALS AND EQUIPMENT SHALL BE PROPERLY STORED AND PROTECTED FROM THE WEATHER AT ALL TIMES DURING CONSTRUCTION TO PREVENT UNNECESSARY CORROSION AND POILING. ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER BY SKILLED AND COMPETENT MECHANICS. ANY WORKER CONSIDERED INCOMPETENT OR UNFIT FOR WORK ON THIS CONSTRUCTION PROJECT SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR UNDER THE DIRECTION OF THE ENGINEER.

4. THE WORK SHALL COMPLY WITH ALL APPLICABLE CODES, REGULATIONS, ORDINANCES, ETC., WHETHER FEDERAL, STATE OR LOCAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ANY PERMITS AND PAYING ANY FEES REQUIRED IN ORDER TO PROCEED WITH THE WORK.

5. THE CONTRACTOR IS REQUIRED TO ATTEND ALL CONSTRUCTION CONFERENCES INCLUDING THE PRE-BID CONFERENCE, THE PRE-CONSTRUCTION CONFERENCE AND THE OWNER'S PROGRESS MEETINGS AS SCHEDULED BY THE ARCHITECT OR THE OWNER. FAILURE TO MAKE REFERENCES IN THE SPECIFICATIONS TO ANY ITEMS OF THE WORK SHOWN BY THE DRAWINGS AND NECESSARY TO THE COMPLETION OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY TO FURNISH THE MATERIALS AND PERFORM THE WORK OF SUCH ITEMS, IN A MANNER COMPARABLE TO OTHER ITEMS OF SIMILAR NATURE FOR WHICH DETAILED SPECIFICATIONS ARE INCLUDED, DRAWINGS AND SPECIFICATIONS ARE INTENDED TO CLEARLY SET FORTH ALL WORK, AND THE DETAILED DESCRIPTION IS ADDED TO ASSIST IN ESTABLISHING THE SCOPE AND THE LOCATION OF THE SEVERAL PARTS OF THE WORK. COLLECTIVELY, THEY SHALL GOVERN AND CONTROL THE SCOPE, CHARACTER AND DESIGN OF THE WORK, AND ANY ITEM CALLED FOR IN ANY ONE OF THE DOCUMENTS SHALL BE AS THOUGH REQUIRED IN ALL.

6. ALL CUTTING AND PATCHING SHALL BE DONE BY WORKMEN SKILLED IN THE TRADES INVOLVED. ALL CUTTING SHALL BE DONE IN SUCH A MANNER AS NOT TO ENDANGER OR DAMAGE FACILITIES. ALL PATCHING SHALL FINISH FLUSH AND SMOOTH AND SHALL MATCH EXISTING ADJOINING SURFACES.

7. SEE GENERAL REQUIREMENTS FOR ELECTRICITY AND WATER. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL FUEL REQUIRED FOR THE OPERATION OF HIS CONSTRUCTION EQUIPMENT.

8. ALL FINISHED FIELD INSTALLED PRESSURE PIPING SYSTEMS SHALL BE TESTED.

9. WORK CONSISTS OF FURNISHING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, TRANSPORTATION, SCAFFOLDING, SERVICES, SUPERVISION, PLANT, AND PERFORMING ALL OPERATIONS REQUIRED TO PROPERLY COMPLETE ALL WORK IN ACCORDANCE WITH THESE SPECIFICATIONS AND AS INDICATED ON THE APPLICABLE DRAWINGS, SUBJECT TO TERMS AND CONDITIONS OF THE CONTRACT. THE CONTRACTOR IS REQUIRED TO HAVE A QUALIFIED AND EXPERIENCED GENERAL SUPERINTENDENT AND EXPERIENCED SUPERINTENDENT FOR EACH TRADE

INVOLVED ON THE JOB WHEN ANY WORK IS IN PROGRESS. ALL WORK SHALL CONFORM WITH ALL LOCAL AND STATE ORDINANCES OR REGULATIONS GOVERNING THE INSTALLATION OF SUCH EQUIPMENT. IF WORK AS LAID OUT, INDICATED OR SPECIFIED IS RECOGNIZED TO BE CONTRARY TO OR CONFLICTING WITH LOCAL ORDINANCES OR REGULATIONS, THE CONTRACTOR SHALL REPORT SAME TO THE ENGINEER BEFORE SUBMITTING A BID. THE ENGINEER WILL THEN ISSUE INSTRUCTIONS AS TO PROCEDURE. IF CONTRACTOR FAILS TO NOTIFY THE ENGINEER OF CONFLICTS OR OMISSIONS NOTED ABOVE, ANY CHANGES REQUIRED TO COMPLY WITH ORDINANCES AND REGULATIONS SHALL BE MADE WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

10. THE LATEST EDITIONS OF THE ESTABLISHED STANDARDS OF THE FOLLOWING ORGANIZATIONS, AND INDIVIDUAL STANDARDS NAMED SHALL BE FOLLOWED THE SAME AS IF THEY WERE FULLY WRITTEN HEREIN AND CONSTITUTE A PART OF THE SPECIFICATION REQUIREMENTS EXCEPT WHERE OTHERWISE SPECIFIED:

1. FLORIDA BUILDING CODE, 2013 8TH EDITION.
2. FLORIDA PLUMBING CODE, 2013 8TH EDITION.
3. NFPA 70 NATIONAL ELECTRICAL CODE
4. NFPA 101 LIFE SAFETY CODE
5. NFPA 90A, STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS
6. NFPA 90A, STANDARD FOR THE INSTALLATION OF BLOWER AND EXHAUST SYSTEMS
7. NFPA 90A, STANDARD FOR THE INSTALLATION OF BLOWER AND EXHAUST SYSTEMS
8. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS.

THE FOREGOING RULES, STANDARDS, REGULATIONS, SPECIFICATIONS, RECOMMENDATIONS AND REQUIREMENTS SHALL BE FOLLOWED BY THE CONTRACTOR AS MINIMUM REQUIREMENTS. THEY SHALL NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING HIGHER GRADES OF MATERIALS AND WORKMANSHIP WHICH ARE SPECIFIED HEREIN OR INDICATED ON THE DRAWINGS.

11. THE INTERIOR FACE OF DUCTWORK HOUSING SUPPLY, RETURN OR EXHAUST AIR DIFFUSERS, REGISTERS OR GRILLES SHALL BE PAINTED "FLAT-BLACK" SO WHEN VIEWED FROM BELOW AND ABOVE NOTHING BEYOND SURFACE OF AIR DEVICE IS VISIBLE.

12. THERMOSTAT/SENSOR WIRING TO BE RUN INSIDE WALLS/COLUMNS OR IN ATTIC SPACE. THE USE OF WIREMOLD OR EXTERNAL RACEWAY SHALL BE APPROVED BY THE ENGINEER.

13. A COMPLETE CERTIFIED TEST AND BALANCE REPORT SHALL BE SUPPLIED BY AN INDEPENDENT CERTIFIED TEST AND BALANCE AGENCY TO THE ENGINEER IN WRITING PER ASAC TEST AND BALANCE REPORT MANUAL (LATEST EDITION) PRIOR TO JOB ACCEPTANCE BY OWNER. THE REPORT SHALL BE SIGNED AND SEALED BY A REGISTERED ENGINEER IN THE STATE OF FLORIDA.

14. THE SUBMISSION OF A BID OR PROPOSAL WILL BE CONSIDERED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED HIMSELF/HERSELF WITH THE PLANS, SPECIFICATIONS AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND OR LABOR DUE TO DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED, UNLESS DIFFICULTIES COULD NOT HAVE BEEN FORESEEN EVEN THOUGH PROPER EXAMINATION HAD BEEN MADE.

15. ALL POWER WIRING, RELAYS, PANELS, TRANSFORMERS, DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL CONTROL WIRING, RELAYS, PANELS, SENSORS (OR THERMOSTATS) SHALL BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR. ALL MOTOR STARTERS SHALL BE FURNISHED BY THE HVAC CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

16. ALL DUCTS TO HAVE AIR EXTRACTORS (ADJUSTABLE TYPE) ON SQUARE OR RECTANGULAR TAKEOFFS WITH SPIN-IN VOLUME DAMPERS ON ROUND OR OVAL TAKE-OFFS. SPIRAL DUCT TAKE-OFFS HAVE NO EXTRACTORS. INSTALL FLEXIBLE DUCT CONNECTORS AT ALL FANS AND AIR HANDLING UNITS.

17. FLEXIBLE DUCTS MUST COMPLY WITH UL 181 AND SHALL NOT EXCEED EIGHT FEET IN LENGTH. REMAINING BRANCH LINE SHALL BE GALVANIZED METAL WITH 2" EXTERNAL INSULATION. FLEXIBLE DUCTS SHALL HAVE FOIL BACKING (FSK TYPE).

18. ANY CONDENSATION ON SURFACES OF HVAC EQUIPMENT, DUCTWORK OR PIPING WILL BE CORRECTED BY THE CONTRACTOR. WRAP WITH INSULATING TAPE OR EXTERNAL INSULATION HAVING A VAPOR BARRIER.

19. INSULATION OUTSIDE OF THE BUILDING SHALL BE WRAPPED WITH ALUMINUM INSIDE ALL SUPPLY, RETURN, EXHAUST AND FRESH AIR DUCTS SHALL BE GALVANIZED METAL, COMPLETELY SEALED, FINISHED WITH 2" EXTERNAL INSULATION SHALL COMPLY WITH UL 181 AND MUST HAVE FLAME SPREAD RATING OF 25 AND A SMOKE DEVELOPED RATING NO HIGHER THAN 50.

20. ROOM SENSORS OR THERMOSTATS SHALL BE MOUNTED AT 48 INCHES ABOVE FINISHED FLOOR.

21. THERMOSTATS TO BE 1 DAY PROGRAMMABLE WITH DIGITAL DISPLAY. PROVIDE AND INSTALL A LOCK BOX FOR ALL THERMOSTATS.

22. SMOKE DETECTORS (SEE DRAWINGS) SHALL BE IONIZATION TYPE AS APPROVED BY THE ENGINEER. COORDINATE THE INSTALLATION WITH THE ELECTRICAL CONTRACTOR. CONTRACTOR SHALL VERIFY THAT DETECTORS ARE COMPATIBLE WITH FIRE ALARM SYSTEMS. IF UNIT SELECTION IS NOT COMPATIBLE THE CONTRACTOR SHALL PURCHASE AND INSTALL PROPER UNIT TO INSURE LIFE SAFETY PROTECTION. SMOKE DETECTORS SHALL AUTOMATICALLY SOUND AUDIBLE ALARM AND TURNOFF FANS.

23. FURNISH AND INSTALL ACCESS DOORS (18"x18" MINIMUM) IN ALL DRYWALL CEILING FOR ACCESS TO MECHANICAL EQUIPMENT.

24. COORDINATE THE INSTALLATION OF ALL AUX. COND. DRAINS LOCATED IN WALLS WITH THE GENERAL CONTRACTOR. COORDINATE THE INSTALLATION OF ALL MAIN COND. DRAINS LOCATED IN WALLS AND CHASES WITH THE PLUMBING CONTRACTOR.

25. THE CONTRACTOR SHALL NOT FABRICATE ANY AIR DISTRIBUTION DUCTWORK UNTIL IT HAS BEEN VERIFIED THAT SUFFICIENT CLEARANCES ARE AVAILABLE FOR THE INSTALLATION OF HVAC SYSTEMS CONSIDERING REQUIREMENTS FOR PIPING, LIGHT FIXTURES, CEILING SYSTEMS, FLOOR SYSTEMS, FOUNDATIONS, AND STRUCTURES. IF A CONFLICT ARISES CONTACT THE ENGINEER FOR PERMISSION TO REROUTE SYSTEM. ALL DUCTWORK SHALL BE ROUTED AT THE EXPENSE OF THE CONTRACTOR.

26. DEVIATION FROM MATERIALS, METHODS, AND PROCEDURES SET FORTH HEREIN MUST BE APPROVED IN WRITING BY THE ENGINEER. APPROVAL WILL NOT BE GIVEN UNLESS THE ENGINEER IS SATISFIED THAT THE PROPOSED SYSTEMS ARE SUPERIOR IN PERFORMANCE, DURABILITY, LONGEVITY, AND RELIABILITY TO THAT SPECIFIED.

27. APPROVALS OF EQUIPMENT OR SYSTEMS OTHER THAN THAT SHOWN MUST BE WITHIN TEN (10) WORKING DAYS PRIOR TO BID DATE.

28. ALL DUCT AND PIPE SIZES SHOWN ARE CLEAR NET INSIDE DIMENSIONS.

29. ALL AIR DISTRIBUTION DUCTWORK SHALL BE AIR TIGHT AND FREE OF LEAKS AND SHALL BE INSPECTED FOR LEAKS PRIOR TO INSTALLATION OF FAN UNITS OR FINISHED FLOOR/CEILING SYSTEM. DUCTWORK SHALL BE SEALED WITH AIR DUCT SEALER PER SMACNA STANDARDS AND UL RATING.

30. EQUIPMENT, DUCTWORK, DAMPERS, LOUVERS, GRILLES, REGISTERS, DIFFUSERS, OTHER AIR DISTRIBUTION EQUIPMENT AND MATERIALS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING:

- (A) ASHRAE
- (B) SECCI
- (C) SMACNA
- (D) NFPA
- (E) AMCA STANDARD HANDBOOK 99
- (F) AIR DIFFUSION COUNCIL TEST CODE 106.2R3
- (G) SECCI STANDARD MECHANICAL CODE
- (H) ANSI
- (I) ASME
- (J) AGA
- (K) AGA
- (L) UL FIRE RESISTANCE DIRECTORY

31. INSULATE ALL REFRIGERANT LINES WITH 3/4" ARMAFLEX OR EQUIVALENT INSULATION. PROVIDE WITH WEATHERPROOF ALUMINUM JACKET ON LINES OUTSIDE.

32. ALL MATERIALS SHALL BE LISTED BY THE UNDERWRITERS LABORATORIES (UL) OR NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA).

33. REFRIGERANT PIPING SHALL BE SIZED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR LIQUID, VAPOR HORIZONTAL AND VAPOR RISERS.

34. TUBING SHALL BE INSTALLED WITH MOISTURE INDICATOR SIGHT GLASS LOCATED IN THE LIQUID LINE ADJACENT TO THE OUTDOOR UNIT.

35. THOROUGHLY CLEAN REFRIGERANT PIPE FITTINGS BEFORE ASSEMBLY. ALL JOINTS ARE TO BE MADE WITH SILVER ALLOY BRAZE MELTING ABOVE 1020 DEGREES F. NO ACID FLUX IS TO BE USED ON ANY JOINT.

36. ALL CONDENSATE DRAINS SHALL TERMINATE INTO ROOF GUTTER. SECURE TO ROOF BEAMS WITH APPROVED CLIP.

37. ALL WORK AND MATERIALS SHALL BE WARRANTED (PARTS AND LABOR) FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER. AN ADDITIONAL WARRANTY (PARTS ONLY) SHALL INCLUDE 4 YEARS ON ALL COMPRESSORS, WITH NINE YEARS ON ALL HEAT EXCHANGERS.

38. CONTRACTOR SHALL SUPPLY TO THE ENGINEER 6 SETS OF SUBMITTALS ON THE FOLLOWING ITEMS:

- A. AIR DISTRIBUTION (DIFFUSER GRILLE AND REGISTERS)
 - B. HEATING/AIR CONDITIONING EQUIPMENT
 - C. DAMPERS
 - D. FANS
 - E. INSULATION MATERIALS
 - F. CONTROLS
 - G. PIPING
- NOTE: THESE ITEMS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONTRACTOR ORDERING.
39. ALL FEES, PERMITS, TAPS, LICENSE, INSURANCE, AND BONDS SHALL BE PAID BY THIS CONTRACTOR FOR ALL RELATED WORK.
40. ROUTE REFRIGERANT PIPING AS SHOWN ON DRAWINGS. MANUFACTURE TO SIZE REFRIGERANT PIPING.
41. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED UNLESS EMBOSSED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ELECTRONIC COPIES.

EXHAUST FAN SCHEDULE

UNIT DESIGNATION	EF-1	EF-2	EF-3
AIR FLOW	CFM 70	CFM 140	CFM 280
STATIC PRESSURE	IN. WC 0.5	IN. WC 0.5	IN. WC 0.5
FAN MOTOR POWER	HP 100W	HP 130W	HP 135W
FAN SPEED	RPM 132	RPM 1050	RPM 1050
DRIVE	DIRECT	DIRECT	DIRECT
SONES	SONES 15	SONES 3.5	SONES 3.5
WEIGHT	LB 10	LB 10	LB 10
ELECTRICAL CHARACTERISTICS	V/PH 115/1	V/PH 115/1	V/PH 115/1
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK
MODEL NUMBER	SP-B10	SP-B10	SP-B290

- NOTES:
1. MOUNT ALL EXHAUST FANS IN ACCORDANCE WITH MFG INSTRUCTIONS.
 2. PROVIDE FAN SPEED CONTROLLERS FOR ALL EXHAUST FANS.
 3. WIRE EXHAUST FANS IN ROOM THEY SERVE TO LIGHT SWITCH.
 4. PROVIDE BACK-DRAFT DAMPER FOR ALL EXHAUST.
 5. EF-4 TO HAVE TIME CLOCK AND OVER RIDE SWITCH IN RR. OVER RIDE TO RUN FOR 15 MINUTES BEFORE SHUTTING OFF.

CEILING DIFFUSER SCHEDULE

SYMBOL	AIR QUANTITY	NECK SIZE	FACE DIMENSION		
			DUCT SIZE	HAIRD CEILING	LAY-IN CEILING
☒	0 - 60	6"	8"	12 X 12	24 X 24
☒	65 - 150	8"	8"	16 X 16	24 X 24
☒	155 - 195	8"	10"	16 X 16	24 X 24
☒	200 - 250	10"	10"	20 X 20	24 X 24
☒	255 - 335	10"	12"	20 X 20	24 X 24
☒	400 - 550	12"	12"	24 X 24	24 X 24
☒	555 - 595	12"	14"	24 X 24	24 X 24
☒	600 - 745	14"	14"	24 X 24	24 X 24
☒	750 - 1000	16"	16"	30 X 30	30 X 30

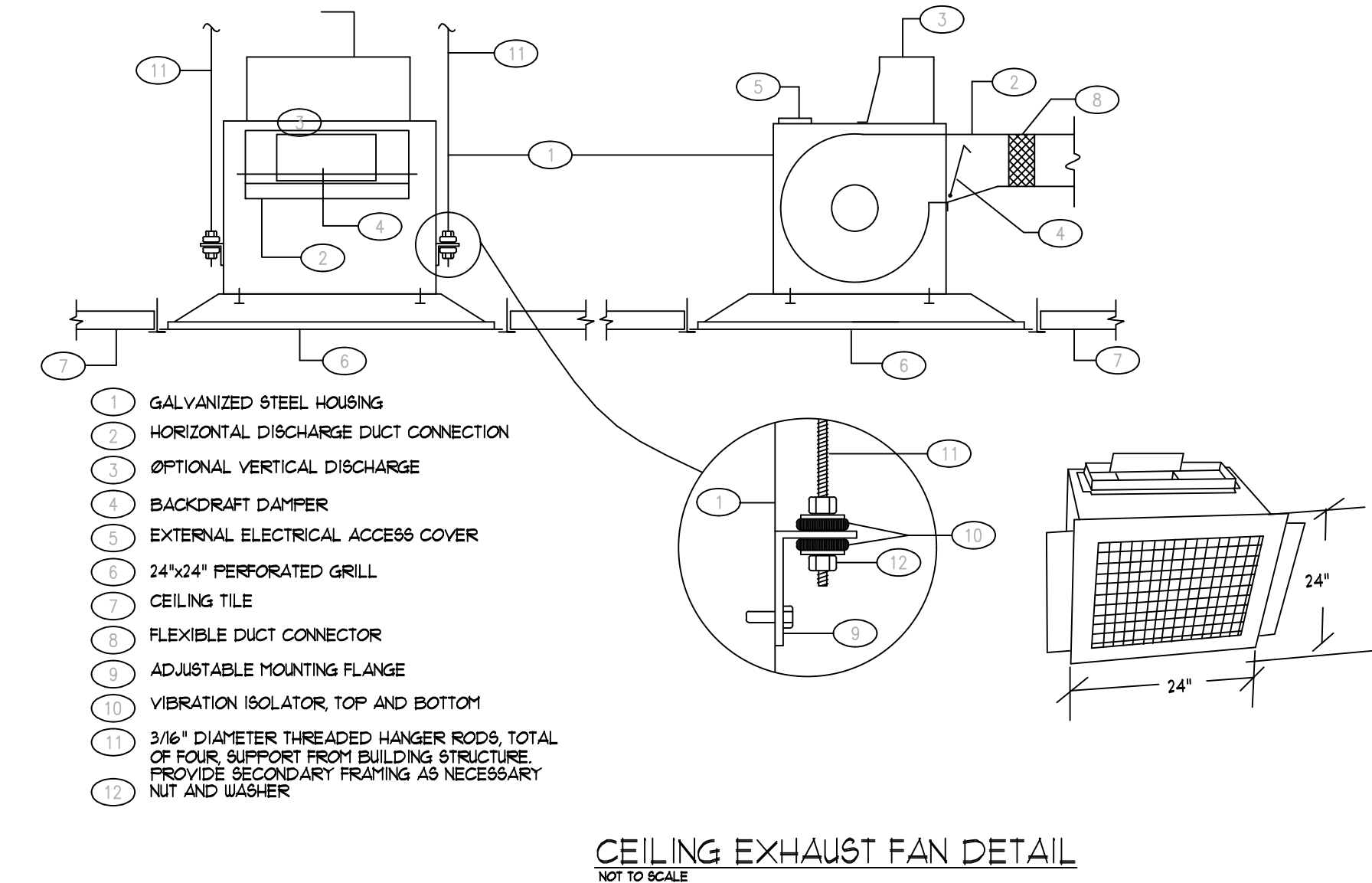
CEILING RETURN AIR OR EXHAUST REGISTER SCHEDULE

SYMBOL	CFM	SIZE	RUNOUT SIZE	
			HAIRD	LAY-IN
☒	0 - 75	8 X 6	8 X 6	10 X 6
☒	80 - 100	10 X 6	10 X 6	12 X 6
☒	110 - 175	10 X 10	10 X 8	12 X 8
☒	180 - 270	12 X 12	14 X 8	16 X 8
☒	275 - 325	18 X 12	20 X 8	24 X 8
☒	330 - 800	24 X 24	26 X 10	28 X 10
☒	805 - 1200	24 X 24	26 X 12	28 X 12
☒	1205 - 1500	24 X 24	26 X 14	28 X 14

* THESE SIZES ARE TO BE USED UNLESS OTHERWISE NOTED ON DRAWINGS.

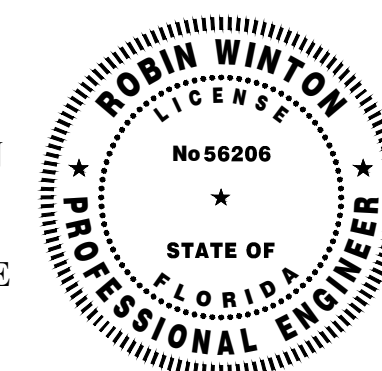
1. ALL DIFFUSERS TO BE THIS TYPE UNLESS OTHERWISE NOTED ON DRAWINGS.

2. RETURN GRILLES TO BE THIS SMOKE TYPE.



WINTON ENGINEERING, PA
 ROBIN WINTON, PE
 2201 WOODBINE DR
 TALLAHASSEE, FL 32309
 850 567-2019
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ROBIN WINTON, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 56206. THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ROBIN WINTON ON THE DATE INDICATED HERE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



CD

A

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a complete engineering & construction management company

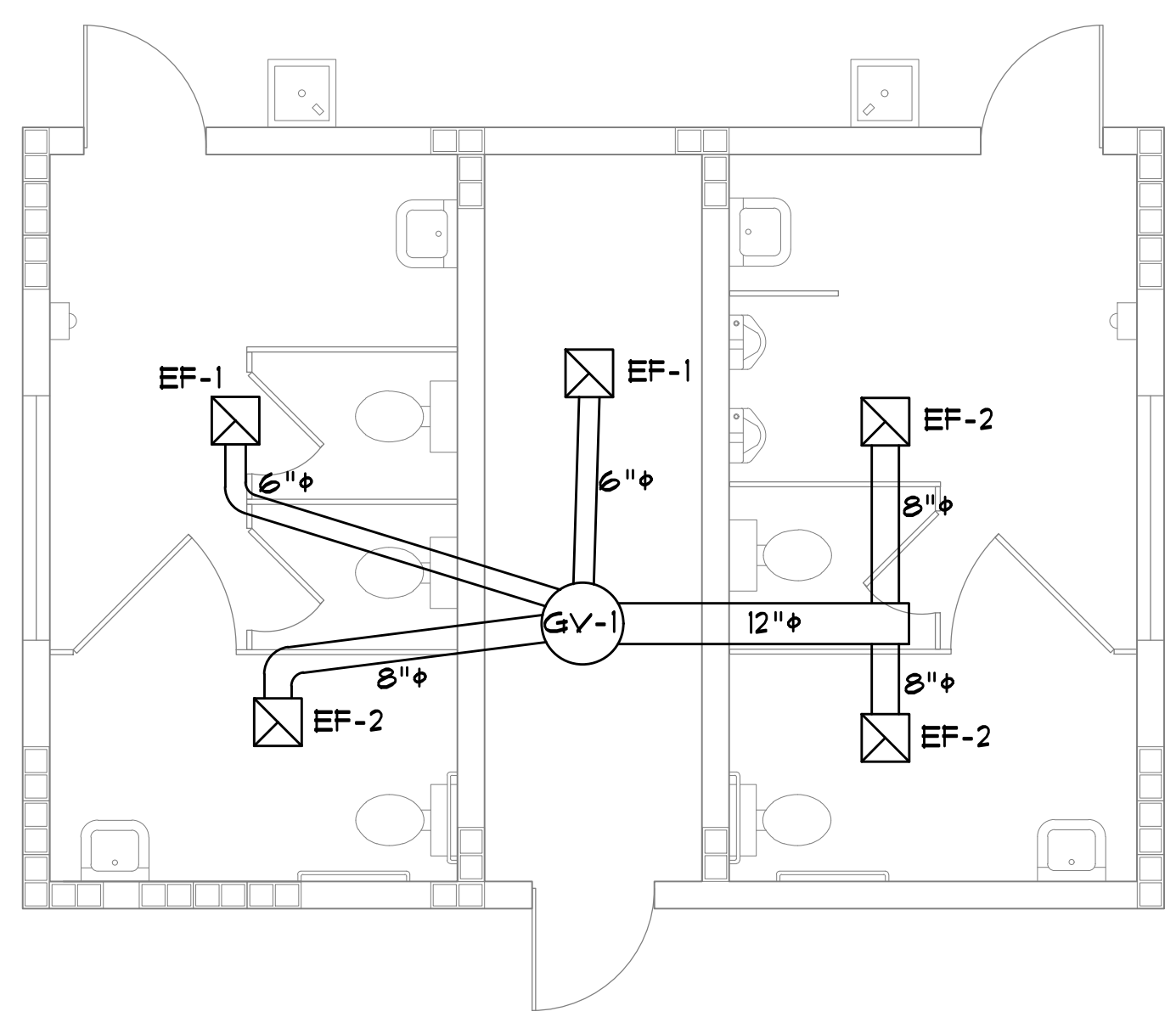
4639 GULF STARR DRIVE
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 FL #68840 FL Certificate of Authorization #6419

DATE: 10/03/2025
 DISTRIBUTION: BID/PERMIT

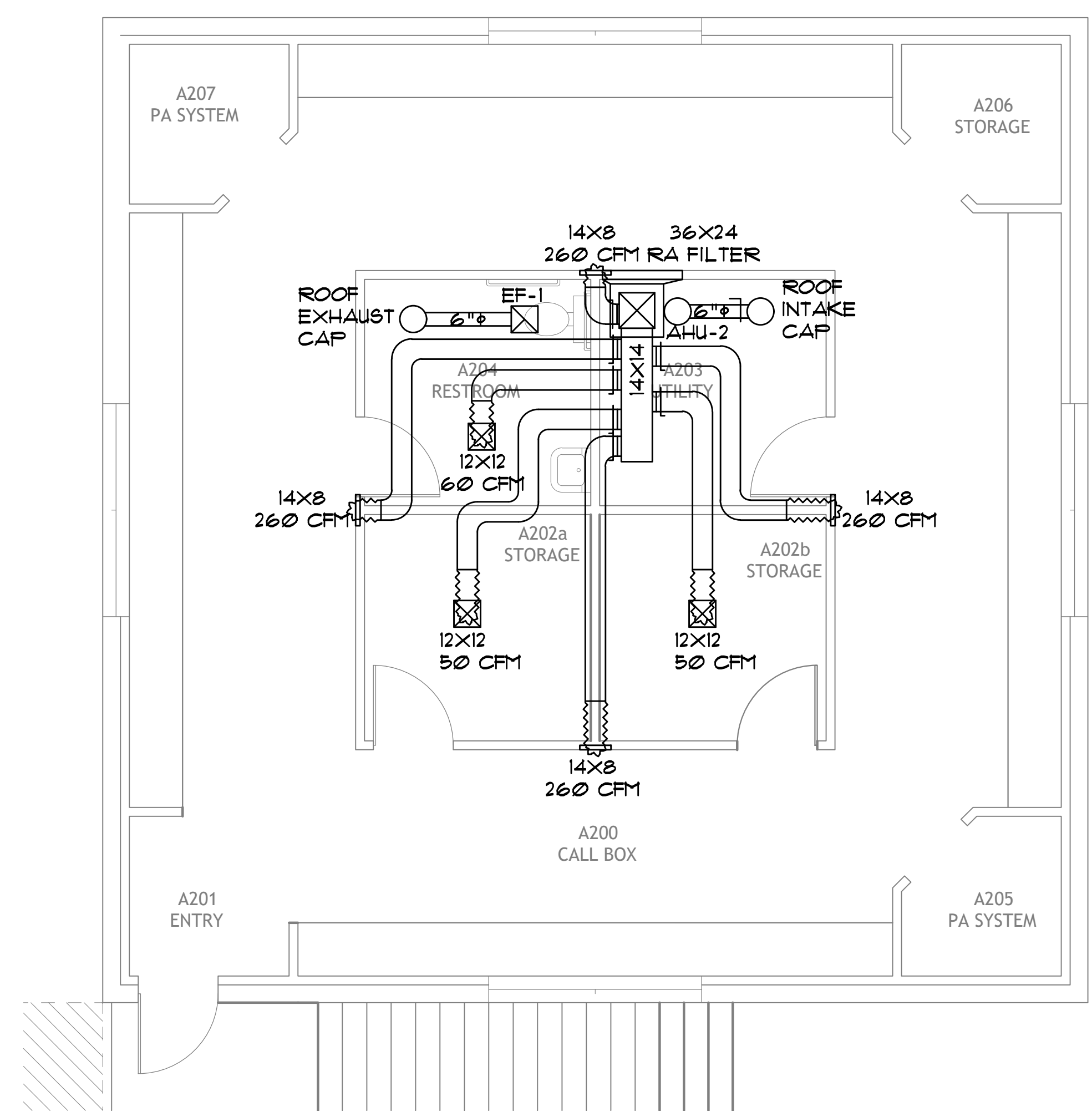
PROJECT: HELEN MCCALL PARK
 10 ACRE EXPANSION
 SHEET TITLE: MECHANICAL NOTES/SCHEDULES
 SHEET SCALE: SEE PLAN

JOB No.: 2508
 DATE: 10/03/25
 DRAWN BY: RPW
 CHECKED BY: RPW

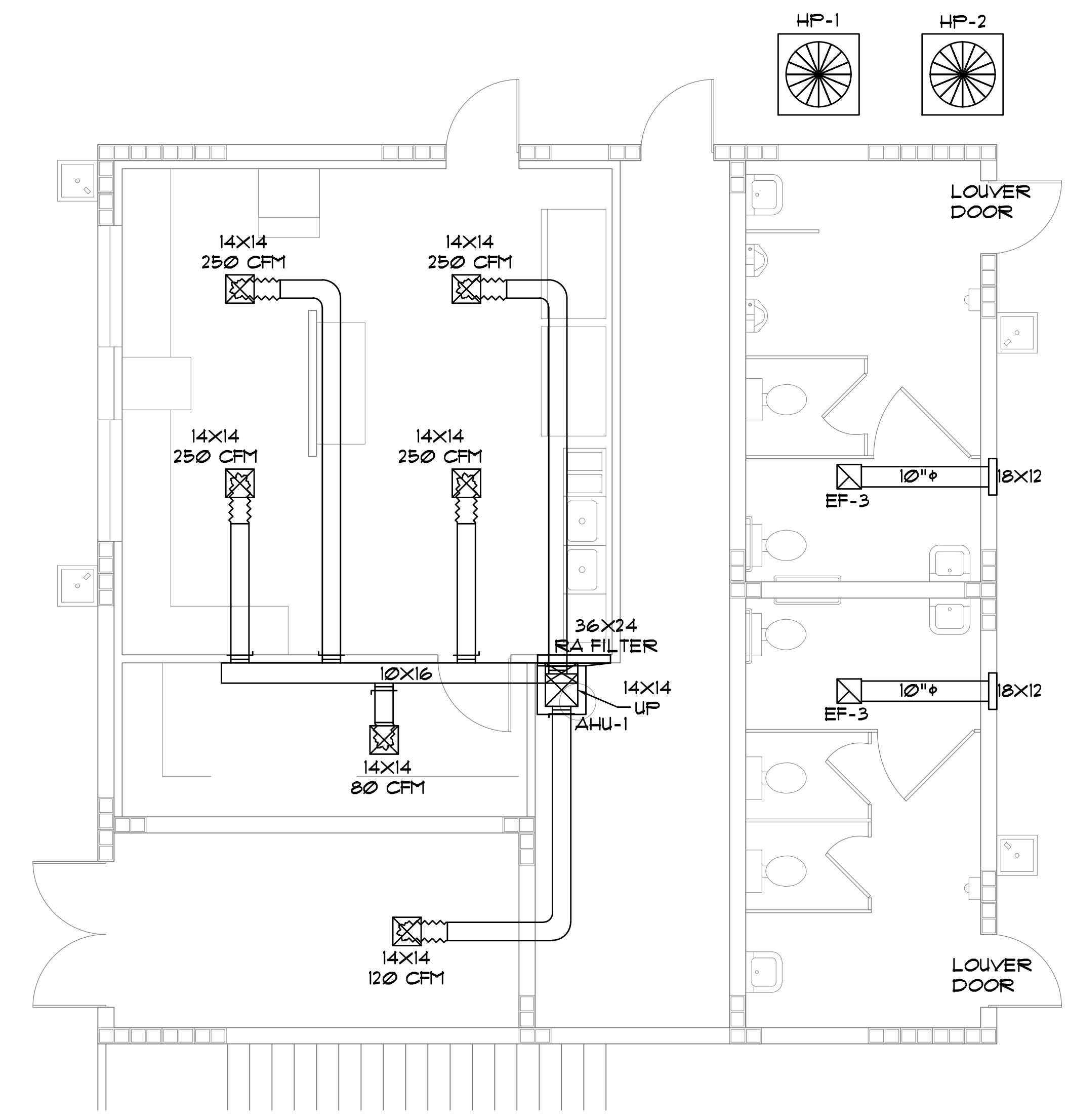
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MECHANICAL PLAN 2ND FLOOR - BLDG C
SCALE: 1/4" = 1'0"

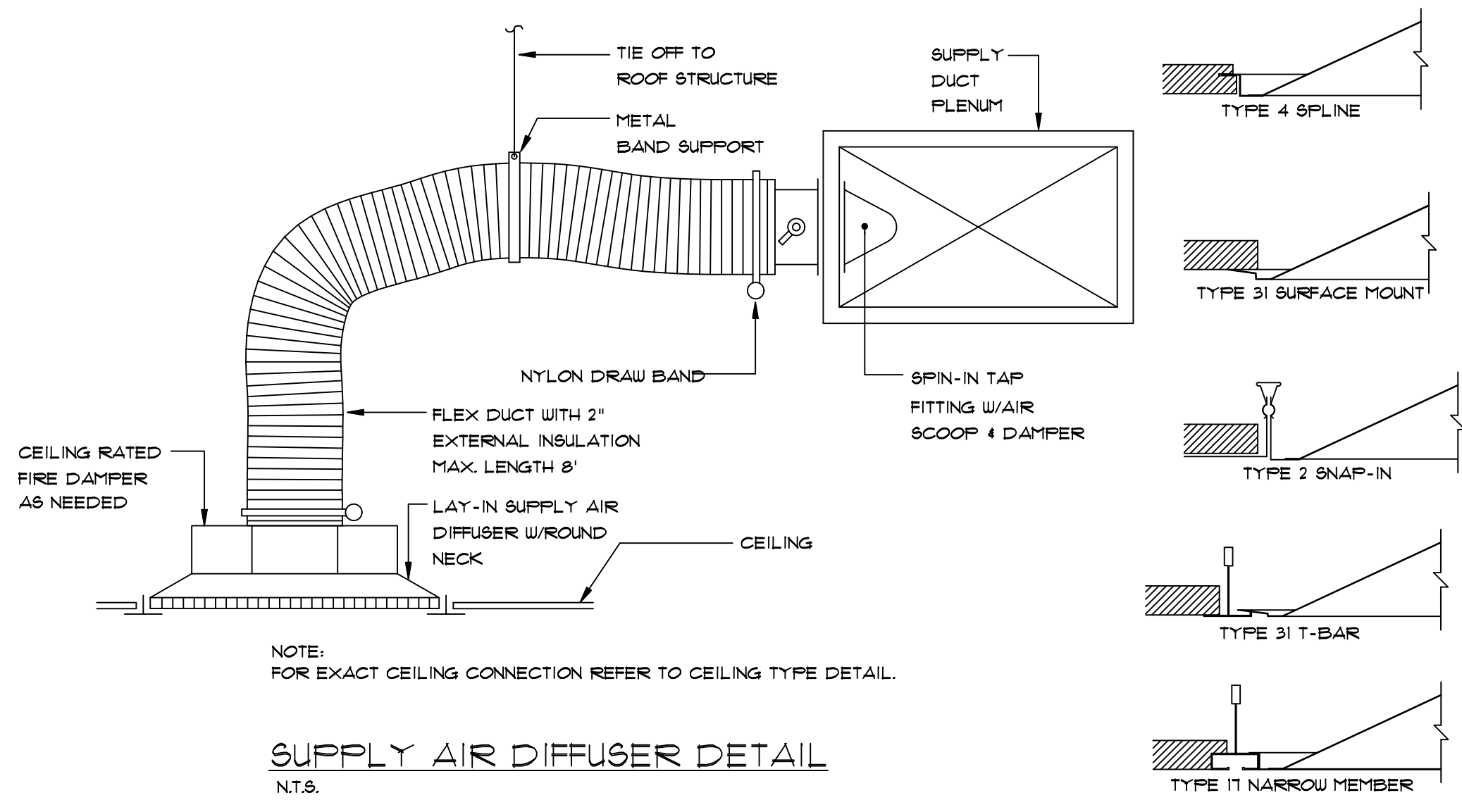


MECHANICAL PLAN 2ND FLOOR - BLDG A
SCALE: 1/4" = 1'0"



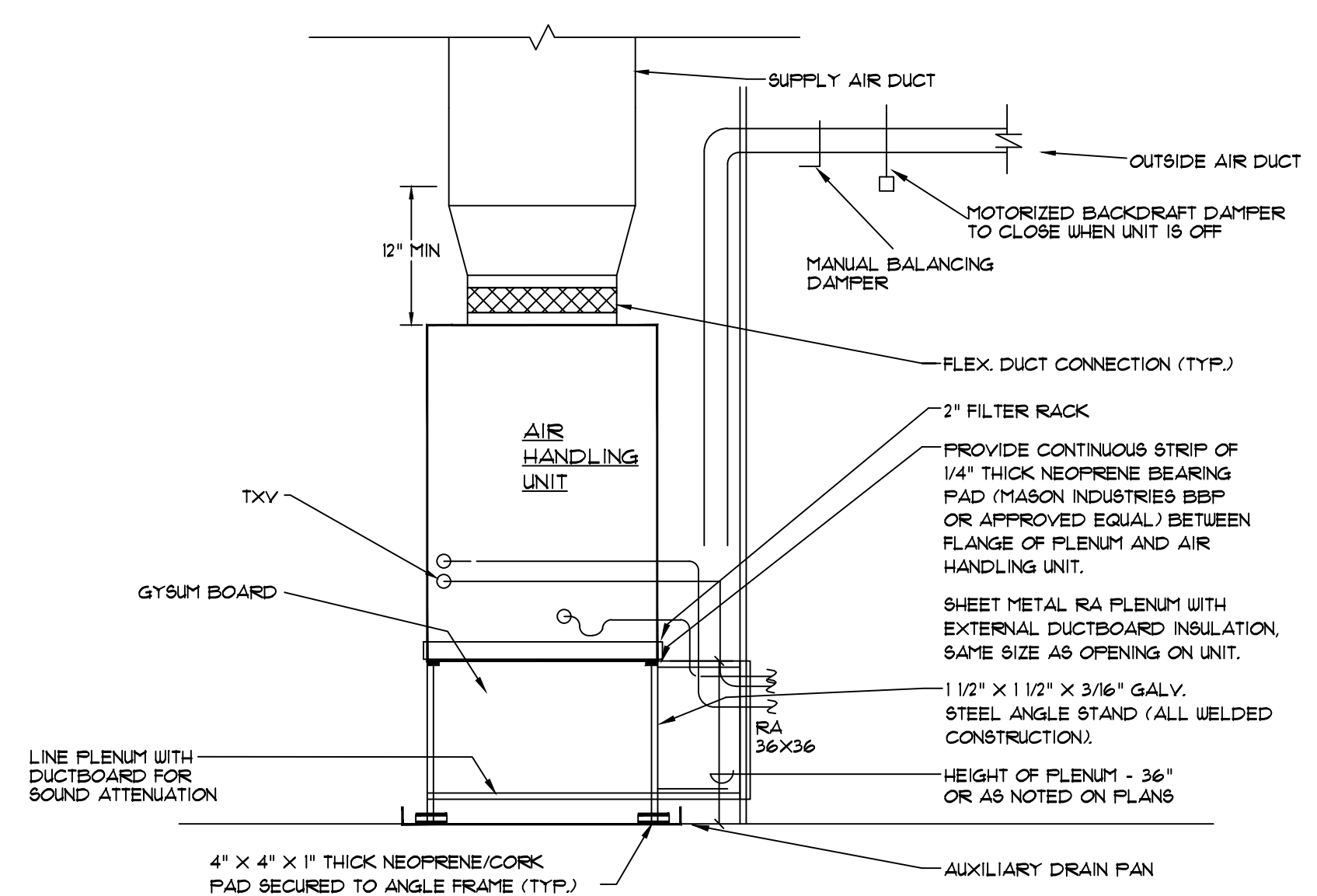
MECHANICAL PLAN 1ST FLOOR - BLDG A
SCALE: 1/4" = 1'0"

1ST FLOOR OUTSIDE AIR IS BY NATURAL VENTILATION, AREA BEING CONDITIONED IS 665 SQFT AT 4% THAT IS 26.6 SQFT EACH SERVING WINDOW IS 15 SQFT FOR A TOTAL OF 30 SQFT OF OPEN AREA.



NOTE: FOR EXACT CEILING CONNECTION REFER TO CEILING TYPE DETAIL.

SUPPLY AIR DIFFUSER DETAIL
N.T.S.

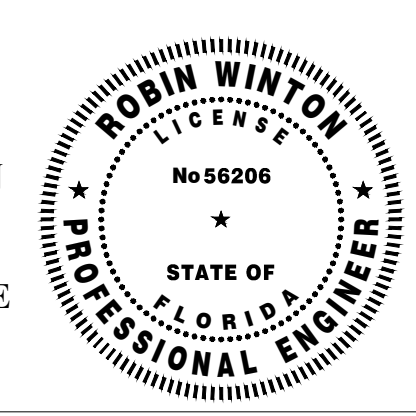


- NOTE:
1. PROVIDE A FLOAT SWITCH IN THE AUXILIARY DRAIN PAN INTERLOCKED WITH AHU FAN.
 2. PROVIDE CLEANOUTS ON CONDENSATE DRAIN.
 3. PROVIDE FOR 2" FILTER RACKS WITH FILTERS.
 4. DRAIN FLOAT SENSOR IN SECONDARY PAN, OR PROVIDE A SECONDARY DRAIN LINE TO BE RUN TO EXTERIOR OF THE BUILDING.
 5. INTERLOCK OUTSIDE AIR DAMPER WITH COMPRESSORS SUCH THAT THE DAMPER WILL NOT OPEN UNLESS COMPRESSORS ARE RUNNING.

INSTALL ALL EQUIPMENT AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
VERTICAL AHU ON RA STAND/ PLENUM
N.T.S.

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PLUMBING LEGEND

SYMBOL	
	ELBOW DOWN
	ELBOW UP
	TEE UP
	TEE DOWN
	CHANGE IN PIPE SIZE
	SANITARY PIPE
	DOMESTIC COLD WATER
	HOT WATER
	VENT PIPING

PLUMBING NOTES:

1) DESCRIPTION:

A. THE NON-TECHNICAL SPECIFICATIONS AND GENERAL CONDITIONS OF THESE SPECIFICATIONS ARE APPLICABLE IN FULL HERETO.

B. INCLUDE ALL EQUIPMENT, MATERIAL AND LABOR REQUIRED FOR COMPLETE AND OPERATING PLUMBING SYSTEMS. DUE TO THE SMALL SCALE OF THE FLOOR PLANS AND DIAGNOSTIC RISER DIAGRAMS, SOME ITEMS INVOLVED MAY NOT BE INCLUDED.

12) WORK INCLUDED:

A. WORK WILL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING SYSTEMS COMPLETE WITH ALL REQUIRED ACCESSORIES:

1. A SYSTEM OF SANITARY SOIL, WASTE AND VENT PIPING.
2. A SYSTEM OF DOMESTIC HOT AND COLD WATER PIPING.
3. PLUMBING FIXTURES, EQUIPMENT, ACCESSORIES, TRIM AS SPECIFIED HEREIN.
4. WATER SERVICE TO EACH FIXTURE REQUIRING SUCH SERVICE.
5. SANITARY BUILDING DRAINS AND FIXTURE BRANCHES FROM EACH FIXTURE REQUIRING SUCH SERVICE.
6. PIPING INCIDENTAL TO HEATING AND AIR CONDITIONING WORK TO THE EXTENT HEREIN SPECIFIED.

1.3) LABS AND CODES:

A. THE CONTRACTOR SHALL INSTALL ALL WORK IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES AND BE INCLUSIVE OF ALL STATE, AND LOCAL CODES. ALL PROVISIONS OF THIS SECTION APPLY TO ALL PLUMBING WORK.

B. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES AND CHARGES REQUIRED INCIDENTAL TO THE WORK INVOLVED THAT MAY BE NECESSARY FOR FULLY COMPLETING THE WORK.

C. THE CONTRACTOR SHALL MAKE ALL NECESSARY TESTS REQUIRED BY LOCAL AUTHORITIES, LEGAL REGULATIONS AND RETURN TO THE ENGINEER ANY CERTIFICATE OF APPROVAL ISSUED FOR ALL PLUMBING WORK SIGNED BY THE INSPECTING ADMINISTRATIVE AUTHORITY IN CHARGE OF EACH PARTICULAR PART OF THE WORK.

14) QUALIFICATIONS:

A. THE CONTRACTOR SHALL BE A LICENSED PLUMBER CERTIFIED BY THE STATE.

15) DRAWINGS:

A. IN THE INTEREST OF CLEARNESS, THE WORK IS NOT ALWAYS SHOWN TO SCALE OR EXACT LOCATION. CHECK ALL MEASUREMENTS, LOCATION OF PIPES, DUCTS AND EQUIPMENT WITH THE DETAIL, ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS, AND LAY OUT WORK SO AS TO FIT IN WITH CEILING GRIDS, LIGHTING AND OTHER PARTS. WHERE DOUBT ARISES AS TO THE MEANING OF THE PLANS AND SPECIFICATIONS, OBTAIN THE ENGINEER'S DECISION BEFORE PROCEEDING WITH PARTS AFFECTED OTHERWISE ASSUME LIABILITY FOR DAMAGE TO OTHER WORK AND FOR MAKING NECESSARY CORRECTIONS TO WORK IN QUESTION.

16) CHANGES AND CONFLICTS:

A. IF DURING CONSTRUCTION DESIRABLE OR NECESSARY CHANGES BECOME APPARENT, ADVISE THE ENGINEER AND SECURE HIS DECISION IN WRITING. OTHERWISE, MAKE NO DEVIATION FROM THE SYSTEM AS DETAILLED.

17) GUARANTEE AND SERVICE:

A. THE CONTRACTOR SHALL GUARANTEE ALL PIPING, EQUIPMENT, FIXTURES AND RELATED MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE AGAINST DEFECTS DUE TO FAULTY WORKMANSHIP OR MATERIALS. SUCH DEFECTS WILL BE CORRECTED PROMPTLY AFTER NOTIFICATION BY THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE WITH NO COST TO THE OWNER.

B. THE CONTRACTOR SHALL ALSO FURNISH WITHOUT CHARGE, ANY REASONABLE SERVICE IN MAKING MINOR ADJUSTMENTS TO FIXTURES AND EQUIPMENT FOR THE SAME PERIOD, BUT THIS SERVICE WILL NOT INCLUDE THE REPLACEMENT OF PARTS DAMAGED BY MALICIOUSNESS OR VANDALISM AFTER ACCEPTANCE BY THE OWNER, OR CLEARING OF OBSTRUCTION FROM SEWERS CAUSED BY OTHER THAN DEFECTS IN THE LINE.

C. THE CONTRACTOR SHALL PUT ALL ITEMS INSTALLED UNDER THIS DIVISION INTO OPERATION AND WILL INSTRUCT THE OWNER'S MAINTENANCE PERSONNEL IN ALL POINTS REQUIRING SERVICE AND MAINTENANCE.

18) SUBMITTAL DATA:

A. WITHIN 30 DAYS AFTER AWARD OF CONTRACT, SUBMIT FOR APPROVAL A COMPLETE SCHEDULE OF MATERIAL AND EQUIPMENT PROPOSED. PARTIAL LISTS WILL NOT BE CONSIDERED. INCLUDE CATALOG DATA, SCHEDULED CAPACITIES, ETC. WHERE SUBSTITUTIONS ARE PROPOSED, FOLLOW PROCEDURES SET FORTH IN THE GENERAL CONDITIONS.

B. UPON REQUEST, SUBMIT SHOP DRAWINGS SHOWING PROPOSED ARRANGEMENT OF EQUIPMENT, PIPING, FLOOR DRAINS, POWER REQUIREMENTS AND CONTROLS. IN ANY CASE, SUBMIT DETAIL LAYOUTS OF POTENTIAL CONFLICTS AT PLUMBING DROPS, EQUIPMENT ROOMS, TIGHT CEILINGS, ETC.

19) EXISTING CONDITIONS:

A. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME ACQUAINTED WITH ALL JOB CONDITIONS. NO CONSIDERATIONS WILL BE GIVEN AFTER BID OPENING FOR ALLEGED MISUNDERSTANDING REGARDING UTILITY CONNECTIONS, PERMITS, FEES, ETC.

B. THE DRAWINGS INDICATE SYSTEMS WHICH ARE LOCATED IN EXISTING PARTITIONS AND BEHIND WALLS. THE CONTRACTOR SHALL LOCATE AND VERIFY ALL PIPING CONNECTIONS AND INCLUDE IN HIS BID CONTINGENCIES FOR THE RELOCATION OF SUCH SYSTEMS IF CONNECTIONS CAN NOT BE MADE AS SHOWN ON THE DRAWINGS.

C. THE CONTRACTOR IS REQUIRED TO CONNECT TO EXISTING PLUMBING SYSTEMS FOR THE CONSTRUCTION OF THIS PROJECT AND IS REQUIRED TO KEEP DISRUPTION OF THE EXISTING SYSTEMS TO A MINIMUM. SCHEDULE CONNECTION TO EXISTING SYSTEMS IN ADVANCE AND ADVISE THE OWNER TO THE LENGTH OF TIME SUCH SYSTEMS WILL NOT BE IN OPERATION. THE CONTRACTOR SHALL MAKE CONNECTIONS AFTER HOURS OR ON WEEKENDS IF REQUESTED BY THE OWNER. NO CONSIDERATIONS WILL BE GIVEN AFTER BID OPENING FOR ALLEGED MISUNDERSTANDING REGARDING UTILITY CONNECTIONS, PERMITS, FEES, ETC.

1)0) PHASING:

A. INTERRUPT EXISTING SERVICES ONLY AT TIMES APPROVED BY THE OWNER. HOLD INTERRUPTIONS TO THE MINIMUM IN DURATION AND FREQUENCY.

1)1) AS-BUILT DRAWINGS:

A. OMIT

1)2) MANUALS:

A. FURNISH FIVE (5) COPIES OF MAINTENANCE INSTRUCTIONS, OPERATING INSTRUCTIONS AND PARTS LISTS FOR ALL FIXTURES AND EQUIPMENT BOARD INTO FIVE (5) MANUALS. LOOSE SHEETS WILL NOT BE ACCEPTED. ONE MANUAL WILL BE SUBMITTED TO THE ENGINEER COMPLETE, PRIOR TO FINAL INSPECTION AND FINAL PAYMENT. THE REMAINING FOUR (4) MANUALS WILL BE SUBMITTED TO THE ENGINEER.

1)3) COORDINATION OF WORK WITH OTHER TRADES:

A. THE CONTRACTOR SHALL LAYOUT AND PROCEED WITH THIS WORK SO THAT THIS WORK WILL BE EXECUTED IN HARMONY WITH ALL OTHER CONTRACTS PERTAINING TO THIS PROJECT.

B. ALL ELECTRICAL POWER WIRING REQUIRED FOR INSTALLATION OF EQUIPMENT UNDER THIS SECTION IS SPECIFIED UNDER ELECTRICAL DIVISION. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROLS, AND CONTROL WIRING AS SPECIFIED OR REQUIRED TO PROPERLY COMPLETE THE INSTALLATION. CONTROL CONDUIT IS SPECIFIED UNDER ELECTRICAL DIVISION TO THE EXTENT SHOWN ON ELECTRICAL DRAWINGS. ALL OTHER CONTROL CONDUIT SHALL BE PROVIDED UNDER THIS SECTION OF WORK. ALL ELECTRICAL WORK PERFORMED UNDER THIS SECTION SHALL MEET REQUIREMENTS SET FORTH IN THE ELECTRICAL DIVISION.

C. PIPE SLEEVES - FIT ALL PIPES PASSING THROUGH MASONRY AND JOB CAST CONCRETE CONSTRUCTION WITH SLEEVES. SLEEVES SHALL BE CUT FLUSH WITH EACH SURFACE. 1/2" LARGER IN DIAMETER THAN THE PASSING PIPE OR COVER. BUILT-IN AS WORK PROGRESSES. SLEEVES THROUGH JOISTS AND BEAMS SHALL BE OF GALVANIZED STEEL PIPE OTHER SLEEVES SHALL BE OF 16 GAUGE GALVANIZED IRON. MAKE SPACE BETWEEN FLOOR SLEEVES AND PASSING PIPES WATER TIGHT BY CAULKING WITH FIREPROOF PACKING AND PLASTIC WATERPROOF CAULKING COMPOUND.

D. ACCESS PANELS AND DOORS:

1. FURNISH TO GENERAL CONTRACTOR FOR INSTALLATION WHEREVER REQUIRED FOR ACCESS TO VALVES, AIR VENTS OR SIMILAR DEVICES. DOORS SHALL BE SUITABLE FOR WALL FINISH INVOLVED, 12" X 16" UNLESS OTHERWISE INDICATED. FIRE RATED WHERE FIRE WALLS ARE PENETRATED, MILGOR, PHILIP CAREY, ZURN OR OTHER APPROVED EQUAL.

2. WHERE DEVICE OCCURS ABOVE A LIFT-OUT ACOUSTICAL CEILING PANEL, IDENTIFY THE PANEL WITH A 3/4" X 1/8" ROUND HEAD SELF-THREADING SCREW, SCREWED INTO PANEL WITH ONLY THE HEAD SHOWING, BEFORE INSERTING PAINT HEAD OF SCREW WITH APPROPRIATE COLOR AS SPECIFIED UNDER PIPE IDENTIFICATION AND COLOR CODING.

E. CUTTING AND PATCHING:

1. OPENINGS ARE TO BE LAID OUT AND BUILT-IN FURNISH DETAILED LAYOUT DRAWINGS TO OTHER TRADES IN ADVANCE OF THEIR WORK. PIPING WITHIN OR BEHIND WALLS MUST BE INSTALLED BEFORE WALL IS ERECTED, OTHERWISE WALLS, ETC. AFFECTED MUST BE REWORKED BY TRADE WHICH ERECTED SAME AT EXPENSE OF THE CONTRACTOR CHASING AND CUTTING OF NEW WORK WILL NOT BE ACCEPTED.

2. CUTOUTS IN COUNTERTOPS SHALL BE MADE BY MILLWORK CONTRACTOR UPON RECEIPT OF PROPER TEMPLATES. OPENINGS IN EXISTING WALLS SHALL BE MADE BY TRADE REQUIRING SAME, WITH REPAIRING AND PATCHING REQUIRED THEREBY DONE BY THE RESPECTIVE TRADE WHOSE WORK IS DAMAGED.

F. PAINTING AND FINISHING:

1. CLEAN AND PAINT WITH TWO COATS OF ENAMEL ALL EXPOSED FERROUS METAL PARTS OF MECHANICAL EQUIPMENT LOCATED IN MACHINERY ROOMS, ABOVE CEILINGS, ETC. (INCLUDE BLACK STEEL PIPE, UNCOATED CAST IRON PIPE, HANGERS, BRACKETS, ETC.).

2. PAINTING OF SURFACES IN FINISHED AREAS IS SPECIFIED UNDER SECTION "PAINTING", WHERE FACTORY FINISHED ITEMS ARE MARKED OR SCRATCHED, REPLACE THE ITEM, OR UPON APPROVAL, REFINISH OR TOUCHUP AS REQUIRED TO BRING TO A LIKE-NEW CONDITION.

G. CONNECTIONS FOR EQUIPMENT FURNISHED BY OTHERS:

1. THE PLUMBING CONTRACTOR SHALL PROVIDE FLOOR DRAINS REQUIRED FOR THIS EQUIPMENT AS SCHEDULED ON THE DRAWINGS.

2. ALL REQUIRED WATER SUPPLY LINES WILL BE EXTENDED TO WITHIN 2'-0" OF EQUIPMENT LOCATIONS AND TERMINATED WITH A GATE VALVE. FINAL CONNECTIONS TO EQUIPMENT WILL BE MADE BY THE PLUMBING CONTRACTOR AND COORDINATED WITH THE GENERAL CONTRACTOR AND OWNER.

1)4) MISCELLANEOUS REQUIREMENTS:

A. MATERIALS AND EQUIPMENT - NEW AND OF BEST QUALITY IN EVERY RESPECT. PIPE AND FITTINGS SHALL CONFORM TO THE ASTM STANDARD DESIGNATED FOR PIPE OF EACH MATERIAL. EQUIPMENT SHALL BE ESSENTIALLY THE STANDARD PRODUCT OF THE MANUFACTURER AND UL APPROVED WHERE COMMERCIALLY AVAILABLE. WHERE TWO OR MORE UNITS OF THE SAME CLASS OF EQUIPMENT ARE REQUIRED, THESE UNITS SHALL BE PRODUCTS OF A SINGLE MANUFACTURER HOWEVER, THE COMPONENT PARTS OF EACH UNIT NEED NOT BE.

B. WORKMANSHIP - FIRST CLASS AND IN ACCORDANCE WITH BEST PRACTICE. PIPE SHALL BE CUT CLEAN, PROPERLY REAMED, THREADED OR SOLDERED, ERECTED PLUMB AND SECURE. MAKE CHANGES IN PIPE SIZE WITH REDUCING FITTINGS WITHOUT THE USE OF BUSHINGS. WORK SHALL BE EXECUTED BY EXPERIENCED MECHANICS AND SHALL PRESENT A NEAT APPEARANCE. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

C. AT ALL STAGES OF INSTALLATION, PROTECT PIPE OPENINGS, FIXTURES AND EQUIPMENT AGAINST THE ENTRANCE OF FOREIGN MATERIALS, AND FROM DAMAGE BY THE ELEMENTS, MORTAR, PAINT, ETC.

D. FACTORY FINISHES - MANUFACTURER'S STANDARD UNLESS OTHERWISE STATED. SUBMIT COLOR CARDS FOR SELECTION WHERE CHOICE EXISTS.

E. EXPANSION - PROVIDE FOR EXPANSION AND CONTRACTION OF ALL PIPING AND MAKE PROPER PROVISIONS SO THAT EXCESSIVE STRAIN WILL NOT OCCUR ON PIPING OR OTHER PARTS.

F. SAFETY PROVISIONS - PROVIDE COVERS OR GUARDS ON ALL HOT, MOVING AND PROJECTING ITEMS WHICH COULD BE A HAZARD TO OCCUPANTS OF THE BUILDING OR TO SERVICE PERSONNEL.

G. CLEANING AND ADJUSTING - UPON COMPLETION OF WORK, CLEAR ALL DRAINS, TRAPS, FIXTURES, DUCTS AND PIPE. ADJUST ALL VALVES, PACK STUFFING BOXES, REMOVE RUBBISH AND LEAVE WORK IN CLEAN AND OPERATING CONDITION.

H. ESCUTCHEONS - WHERE PIPES PASS THROUGH FLOORS, WALLS AND CEILINGS, PROVIDE PRESSED CHROME-PLATED BRASS OR STEEL PLATES SECURELY FASTENED IN PLACE.

PART 3 - EXECUTION

3)1) SANITARY PIPING:

A. SCOPE - PROVIDE A SYSTEM OF SOIL, WASTE AND VENT PIPING CONNECTING ALL PLUMBING FIXTURES, EQUIPMENT, ETC., TO THE BUILDING DRAIN SYSTEM, WITH CONSOLIDATED VENT CONNECTIONS EXTENDING THROUGH THE BUILDING ROOF, ALL AS SHOWN ON THE DRAWINGS.

B. FREEZE PROTECT ALL EXPOSED SANITARY PIPING.

C. LAYING OUT WORK - VENTS FROM ANY FIXTURE, WHEN CONNECTED TO VENT LINE SERVING OTHER FIXTURES, SHALL BE EXECUTED AT LEAST SIX (6) INCHES ABOVE FLOOD LEVEL, RIM OF HIGHEST OF SUCH FIXTURES TO PREVENT USE OF VENT LINES AS A WASTE. MAKE CHANGES IN DIRECTION BY APPROPRIATE USE OF 45 DEGREE Y₂, 1/2" Y₂, OR LONG SUEEP 1/4, 1/8, 1/8 OR 1/8 BENDS. SANITARY T₂ OR SHORT 1/4 BENDS MAY BE USED ON VERTICAL STACKS OR DRAINAGE LINES WHERE CHANGE IN DIRECTION OF FLOW IS FROM HORIZONTAL TO VERTICAL EXCEPT THAT LONG-TURN T₂'S SHALL BE USED WHEN TWO FIXTURES ARE INSTALLED BACK TO BACK WITH COMMON DRAIN, STRAIGHT T₂, ELLS AND CROSSES MAY BE USED ON VENT LINES. MAKE NO CHANGE IN DIRECTION OF FLOW GREATER THAN 90 DEGREES. WHERE DIFFERENT SIZES OF DRAINAGE PIPES OR FITTINGS ARE CONNECTED, USE STANDARD INCREASERS AND REDUCERS OF PROPER SIZE. DO NOT REDUCE SIZE OF DRAINAGE PIPING IN DIRECTION OF FLOW. DRILLING AND TAPPING OF HOUSE DRAINS, SOIL, WASTE OR VENT PIPES, AND USE OF SADDLE HUBS AND BANDS ARE PROHIBITED.

D. DO NOT BEGIN WORK UNTIL ELEVATION OF FINAL CONNECTION POINT IS VERIFIED AND GRADING OF ENTIRE SYSTEM CAN BE DETERMINED.

E. HANGERS - SUPPORT PIPE ADJACENT TO EACH FITTING AND ON CENTERS NOT EXCEEDING FIVE FEET WITH HANGERS AS SPECIFIED HEREINAFTER. HANGERS SUPPORT BASE OF VERTICAL RUNS WITH SOLID MASONRY OR CONCRETE.

F. IN ADDITION, PROVIDE ADEQUATE SWAY BRACING TO STABILIZE ALL COMPONENTS OF THE SYSTEM. PROVIDE SPECIAL SUPPORT FOR FIXTURE ARMS, CLOSET BENDS, ETC.

G. GRADING - UNIFORM AND NOT LESS THAN 1/8" PER FOOT FOR PIPE 4" AND OVER, AND NOT LESS THAN 1/4" PER FOOT FOR 2" AND 3" PIPING.

H. WASTE ARMS - PVC DWV OR IPS BRASS PIPE TYPICAL IPS BRASS PIPE AT URINALS.

I. TEST FITTINGS - NOT SHOWN ON THE DRAWINGS: PROVIDE WHERE REQUIRED FOR PARTIAL TESTS.

J. PIPING TO BE CAST IRON OR PVC - DWV IN ACCORDANCE WITH FPC 2020 1TH EDITION.

3)3) WATER PIPING:

A. SCOPE - CONNECT TO UTILITIES AS SHOWN ON THE DRAWINGS AND COORDINATE WITH THE OWNER.

B. GENERAL WORKMANSHIP - CUT ACCURATELY TO MEASUREMENTS ESTABLISHED AT SITE AND WORK INTO PLACE WITHOUT SPRINGING OR FORCING. PROPERLY CLEARING ALL OPENINGS, FINISHED CEILINGS, ETC. ROUTE THROUGH PREVIOUSLY BUILT-IN SLEEVES AND AVOID EXCESSIVE CUTTING OR OTHER WEAKENING OF THE STRUCTURE. REAM ALL PIPE TO REMOVE BURRS. MAKE CHANGES IN DIRECTION AND SIZE WITH FITTINGS. CAP OR PLUG OPEN PIPE ENDS DURING INSTALLATION TO KEEP OUT FOREIGN MATERIAL. MAKE CONNECTIONS CAREFULLY TO INSURE UNRESTRICTED FLOW, ELIMINATE AIR POCKETS AND TO PERMIT COMPLETE DRAINAGE OF THE SYSTEM. FREEZE PROTECT ALL EXPOSED WATER PIPING.

C. GRADING - GRADE PIPE UPWARD FROM SOURCE TO FACILITATE DRAINAGE AND AIR RELIEF. WHERE LOW POINTS ARE REQUIRED BECAUSE OF LONG RUNS OR WHERE SECTIONS MAY BE VALVED OFF, PROVIDE WITH 3/4" GLOBE VALVE AND HOSE NIPPLE FOR DRAINAGE AT LOW POINT. MAKE ALL CONNECTIONS TO RISERS AND FIXTURES FROM TOP OF MAIN.

D. NIPPLES - OF SAME MATERIAL AS PIPE IN WHICH THEY ARE INSTALLED PROVIDE EXTRA STRENGTH WHEN UNTHREADED PORTION IS LESS THAN 1" LONG.

E. PIPING TO BE COPPER OR CPVC.

3)4) WATER PIPING SPECIALTIES:

A. UNIONS - 150 LB. RATED CAST BRASS GROUND-JOINT TYPE IN COPPER PIPE, GALVANIZED MALLEABLE IRON IN UROUGHT IRON OR GALVANIZED PIPE.

B. PROVIDE IN ALL SIZES OR THREADED PIPE, AND IN SWEAT JOINTED PIPE OVER 1", SO AS TO FACILITATE EASY REPAIRS. IN SUCH LINES INSTALL ADJACENT TO WATER HEATERS, PUMPS, TANKS, ETC. INTO WHICH PIPING IS TERMINATED AND ON AT LEAST ONE SIDE OF VALVES, COCKS, STRAINERS, ETC., AND OTHER DEVICES WHICH OCCUR IN PIPING RUNS.

C. PROVIDE DIELECTRIC UNIONS BETWEEN FERROUS AND NON-FERROUS PIPING (INCLUDING PIPING AND WATER HEATER STUBS WHERE DIFFERENT).

D. VALVES - PROVIDE WHERE SHOWN AND/OR SPECIFIED, INCLUDING ALL FITTINGS ON EQUIPMENT NOT FURNISHED WITH STUBS. ALL VALVES OF EACH TYPE SHALL BE THE PRODUCT OF ONE MANUFACTURER. STOCKHAM UNITS AS INDICATED BELOW OR EQUALS BY CRANE OR WALLOWORTH. ALL VALVES SHALL BE RATED 200 LB. WUP.

E. BALL VALVES 2" AND SMALLER - 8-20T BR CAST BRONZE FOR THREADED PIPE.

F. SHOCK ABSORBERS - CERTIFIED BY PLUMBING AND DRAINAGE INSTITUTE STANDARD PDI-UH201. PROVIDE WHERE INDICATED.

G. WALL HYDRANTS (TYPICAL) - SEE FIXTURE SCHEDULE. FURNISH VACUUM BREAKER ON EACH HYDRANT.

H. YARD HYDRANTS (TYPICAL) - NON-FREEZE 3/4" CHROMIUM PLATED BRONZE HOSE BIBS WITH LOOSE KEY. WADE U-8620 WITH INTEGRAL BACKFLOW PREVENTER OR APPROVED EQUAL. FURNISH VACUUM BREAKER ON EACH HYDRANT. INSTALL FLUSH WITH FINISH GRADE. SEE DRAWINGS FOR LOCATION.

I. PRESSURE REDUCING VALVES - WATTS/MUESCO SERIES 1 B AS SIZED ON DRAWING. FURNISH WITH WATTS NO. 1T5 OR 1T₂ TYPE STRAINER, CRANE OR STOCKHAM.

J. THERMOMETERS - "ANY ANGLE" TYPE WITH 9 INCH SCALE AND SUITABLE TEMPERATURE RANGE, AS MANUFACTURED BY TRECICE TYPE BX. THERMOMETERS SHALL BE MERCURY ACTUATED WITH PHENOL CONDENSATE WITH ALUMINUM OR BRASS CASES AND 6" SOCKET WITH EXTENSION NECK. LOCATE 80 AS TO BE CALIBRATED BY AN EQUAL PRODUCT BY WEBKLER, MARSH OR MAXWELL MOORE WILL BE ACCEPTED.

K. PRESSURE GAGES - BOURDON TUBE TYPE, AS MANUFACTURED BY TRECICE NO. 620 COMPLETE WITH CAST ALUMINUM CASE, NO. 87V VIBRATION OR PULSATION SNUBBER AND NO. 135 NEEDLE VALVE. GAGE DIALS SHALL BE NOT LESS THAN 4-1/2" AND CASES SHALL BE OF ALUMINUM ALLOY. FURNISH WITH SUITABLE PRESSURE RANGES FOR EACH APPLICATION. EQUAL PRODUCTS BY WEBKLER, MARSH OR ASH-CROFT WILL BE ACCEPTED.

L. VACUUM BREAKER - WATTS NO. 36A, CRANE OR STOCKHAM.

M. HOT WATER PIPING TO INSULATED PER FLORIDA PLUMBING CODE.

3)5) PIPE HANGERS AND SUPPORTS: PER FT TO

A. SPACING - INSTALL SUPPORTS AS REQUIRED TO PREVENT SAGS, BENDS OR VIBRATION IN ANY CASE PROVIDE WITHIN SIX INCHES OF ELBOWS AND VALVES, AT ENDS OF BRANCHES OVER FIVE FEET, AND ON CENTERS NOT EXCEEDING THE FOLLOWING:

1. COPPER TUBING - UP TO 1", 6 FEET; OVER 1", 8 FEET
2. STEEL PIPE - UP TO 4", 8 FEET; 1-1/2" AND 2", 10 FEET; 2" THROUGH 3-1/2", 12 FEET; OVER 3-1/2", 16 FEET
3. CAST IRON PIPE - REFER TO SANITARY PIPING

B. EQUAL PRODUCTS - EQUIVALENT DEVICES BY GRINNELL, ELSEN, STOCKHAM OR CRANE WILL BE ACCEPTED.

C. HANGER RODS - OF MILD STEEL, THREADED AS REQUIRED, USE NOT SMALLER THAN 3/8" RODS FOR PIPE 2" AND UNDER, 1/2" RODS FOR PIPES 2-1/2" THROUGH 6", BUT GENERALLY AS STANDARD FOR THE HANGER SELECTED. SUPPORT RODS WITH THREADED INSERTS, EXPANSION SHIELDS OR BEAM CLAMPS.

D. AT TYPICAL SUSPENDED HORIZONTAL PIPE - ADJUSTABLE CLEVIS OR SPLIT-RING TYPE, EQUAL TO FEE 4 MASON 235 OR 215.

E. WHERE IN CONTACT WITH COPPER PIPE - SAME AS ABOVE EXCEPT HANGERS COPPER PLATED.

F. VERTICAL PIPING ALONG WALL - FEE 4 MASON #41 RISER CLAMPS AT FLOORS AND 136 STAND-OFF BRACKETS TOGGLE BOLTS TO WALL. PLACE UNDER HUBS OR COUPLINGS WHERE AT ALL POSSIBLE. GRINNELL, OR WATTS.

G. ON INSULATED LINES - SIZE HANGER LOOPS TO FIT OVER INSULATION, AND PROVIDE 1" LONG, 22 GAUGE GALVANIZED SHEET METAL HALF-ROUND SADDLES TO PROTECT INSULATION.

H. SUPPORTS FOR WATER SUPPLY PIPING IN SPACES BEHIND PLUMBING FIXTURES - AS BRACKETS AND U-BOLTS. SECURE BOLTS TO WALL. BRACKETS TO CAST IRON STACKS, U-BOLTS SHALL BE SIZED TO BEAR ON THE PIPE. BRACKETS SHALL BE F 4 M BRACKET CO. OR EQUAL.

I. AT HORIZONTAL PIPING ALONG WALL - FEE 4 MASON #46 I-HOOKS.

3)1) FIXTURE SUPPORTS AND CONNECTIONS:

A. GENERAL - ALL FIXTURES INCLUDING LAVATORIES, URINALS, WATER CLOSETS, ELECTRIC WATER COOLERS, ETC. MUST BE SECURELY FASTENED TO THE WALLS OR FLOOR.

B. WALL MOUNTED FIXTURES - SUPPORT ALL WALL MOUNTED FIXTURES WITH 3/16" THICK X 3-1/2" HIGH PLATES FULL LENGTH OF FIXTURE, MOUNTED BEHIND WALL. WHERE FIXTURES ARE BACK TO BACK ON A SOLID WALL, MOUNT WITH BOLTS FROM FIXTURE HANGER TO FIXTURE HANGER. DO NOT USE TOGGLE BOLTS OR EXPANSION BOLTS EXCEPT AS NOTED. WHERE FIXTURES ARE MOUNTED ON SOLID WALLS FINISHED BOTH SIDES, INSTALL FIXTURE WITH PLATED TOGGLE BOLTS. WHERE FIXTURES ARE MOUNTED ON WELDED STUDS, EMPLOY 3/16" STEEL HANGER PLATES PLACED ON WALL BEFORE LATHING. PLATES SHALL BE 16" X 8" MINIMUM SIZE AND SHALL HAVE WELDED-ON BOLT STUDS. WHERE FIXTURES ARE MOUNTED ON WOOD OR LIGHT GAUGE STEEL STUDS, EMPLOY PRESSURE TREATED BLOCKING OR 2" X 10 NOMINAL SIZE WELLS SECURED INTO STUD LINE WITH NON-CORROSIVE FASTENERS. FIT BEHIND STUD FLANGES, USING ESPECIALLY PLACED STUDS AS REQUIRED.

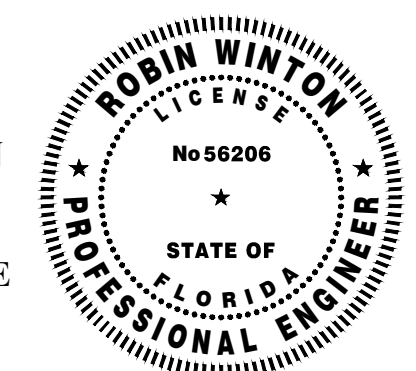
C. FLOOR CONNECTIONS - PROVIDE FLOOR FLANGES, SCREWED OR CAULKED TO DRAINAGE PIPE. BOLT THE CONNECTION AND MAKE TIGHT TO FIXTURE WITH SETTING RING OR POLYETHYLENE GASKET FLANGE.

D. WASTE ARMS TO FIXTURES - AS SPECIFIED HEREINBEFORE. WHERE COPPER OR BRASS PIPE IS SPECIFIED, ALL JOINTS DOWNSTREAM FROM TRAP SHALL HAVE SOLDERED JOINTS.

E. STERILIZATION - THE COMPLETED SUPPLY LINE SHALL BE STERILIZED AS REQUIRED BY STATE LAW BEFORE ACCEPTANCE FOR DOMESTIC OPERATION.

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DATE: 10/03/2025

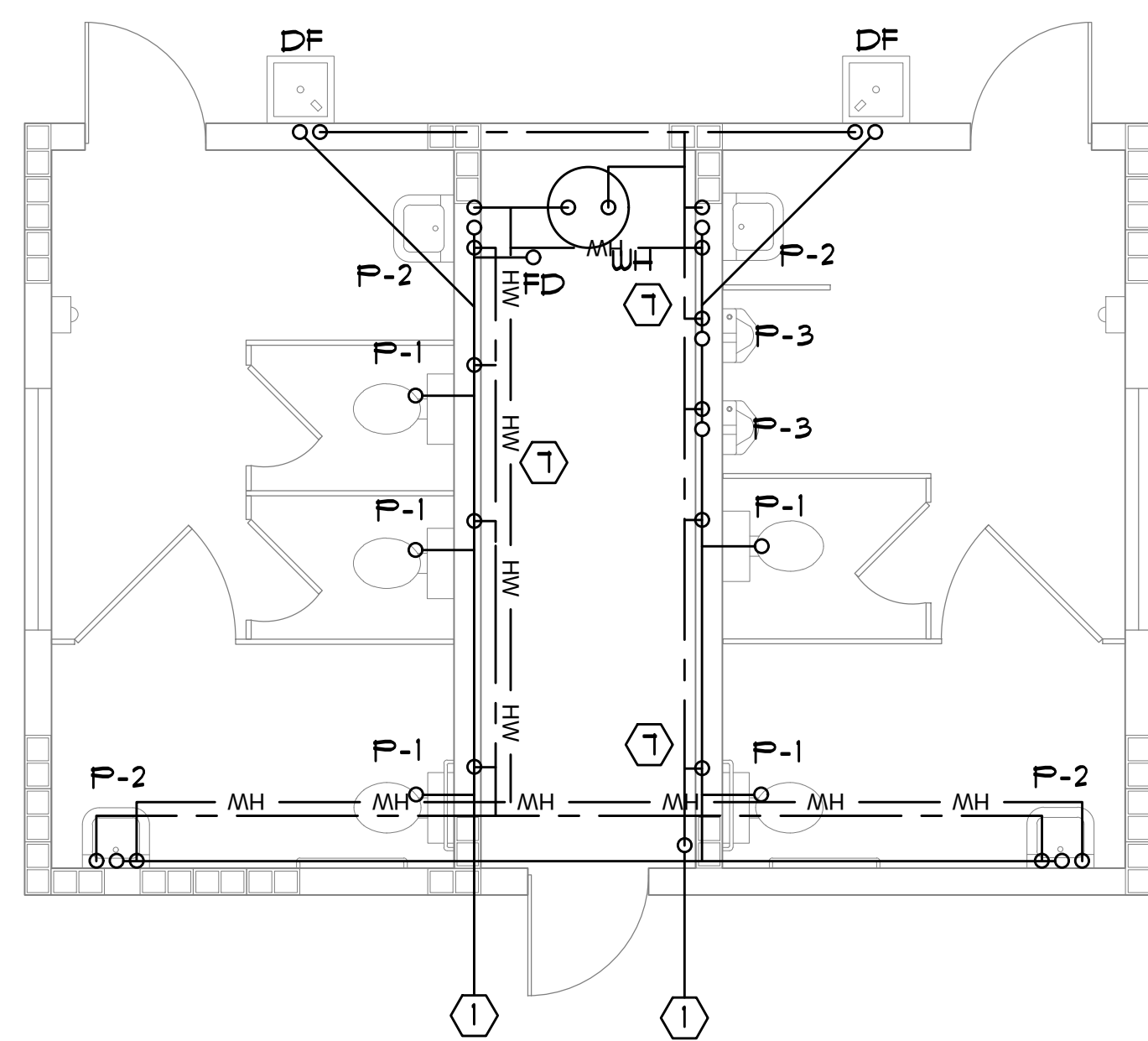
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PROJECT: HELEN MCCALL PARK
10 ACRE EXPANSION
WALTON COUNTY, FLORIDA

SHEET TITLE: PLUMBING NOTES
SHEET SCALE: SEE PLAN

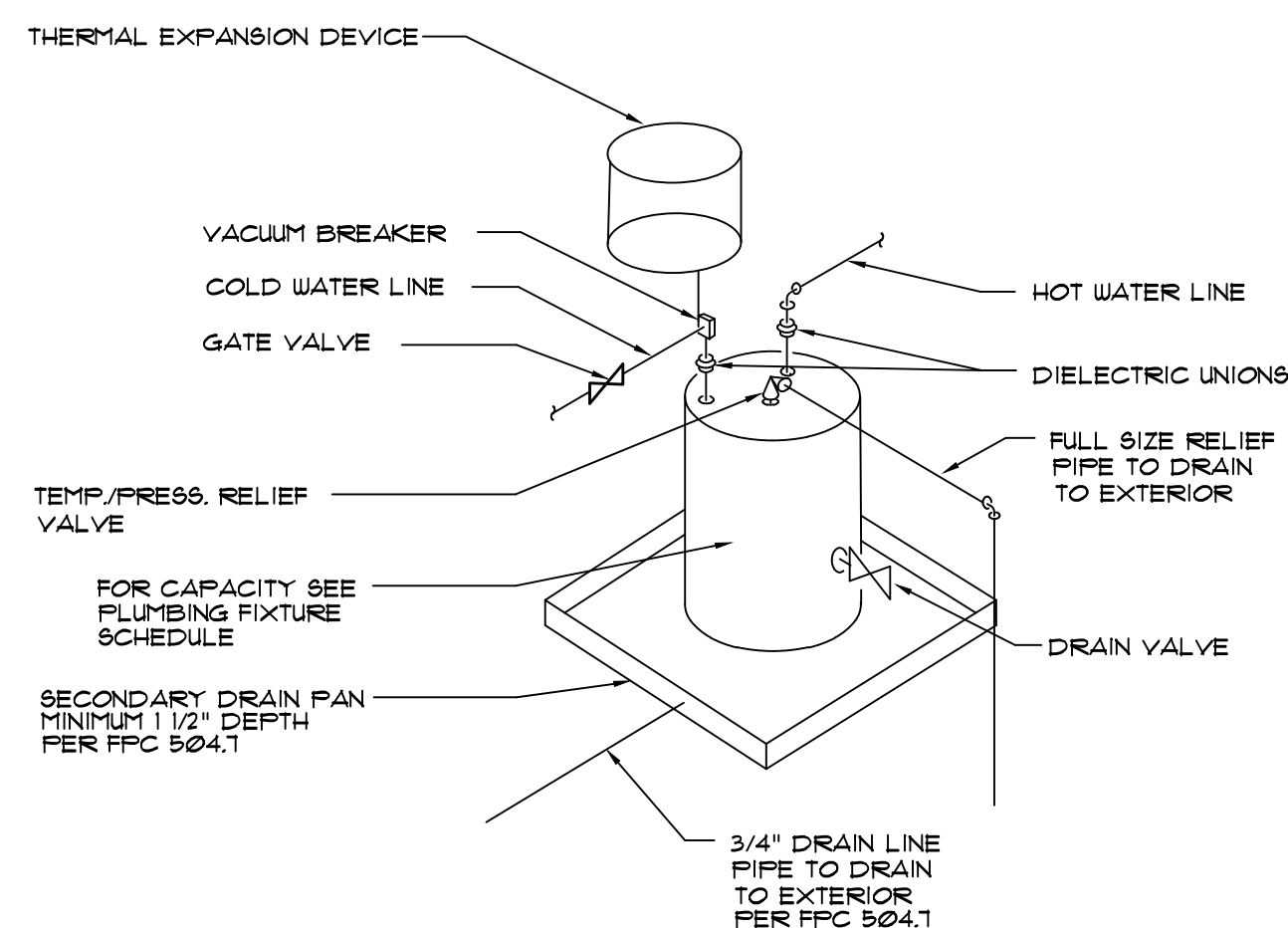
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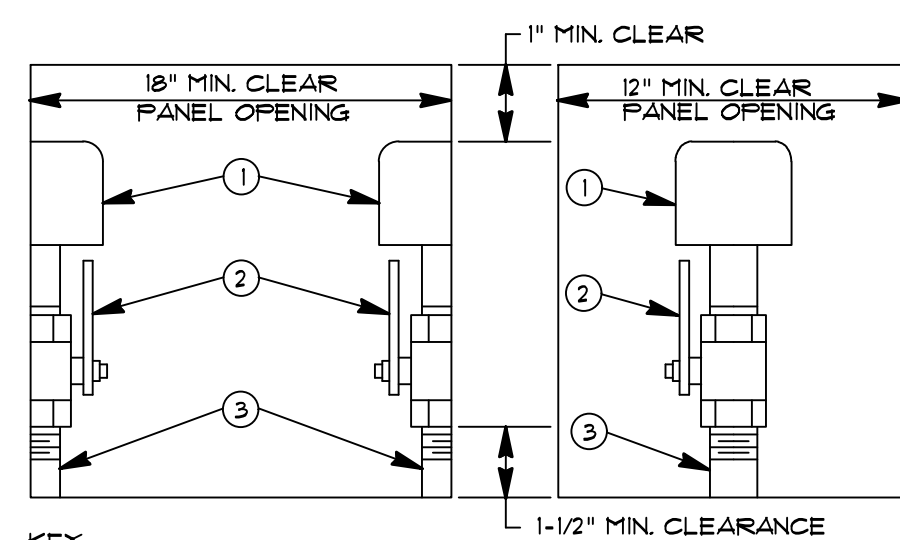
PLUMBING PLAN 2ND FLOOR - BLDG C

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



WATER HEATER DETAIL

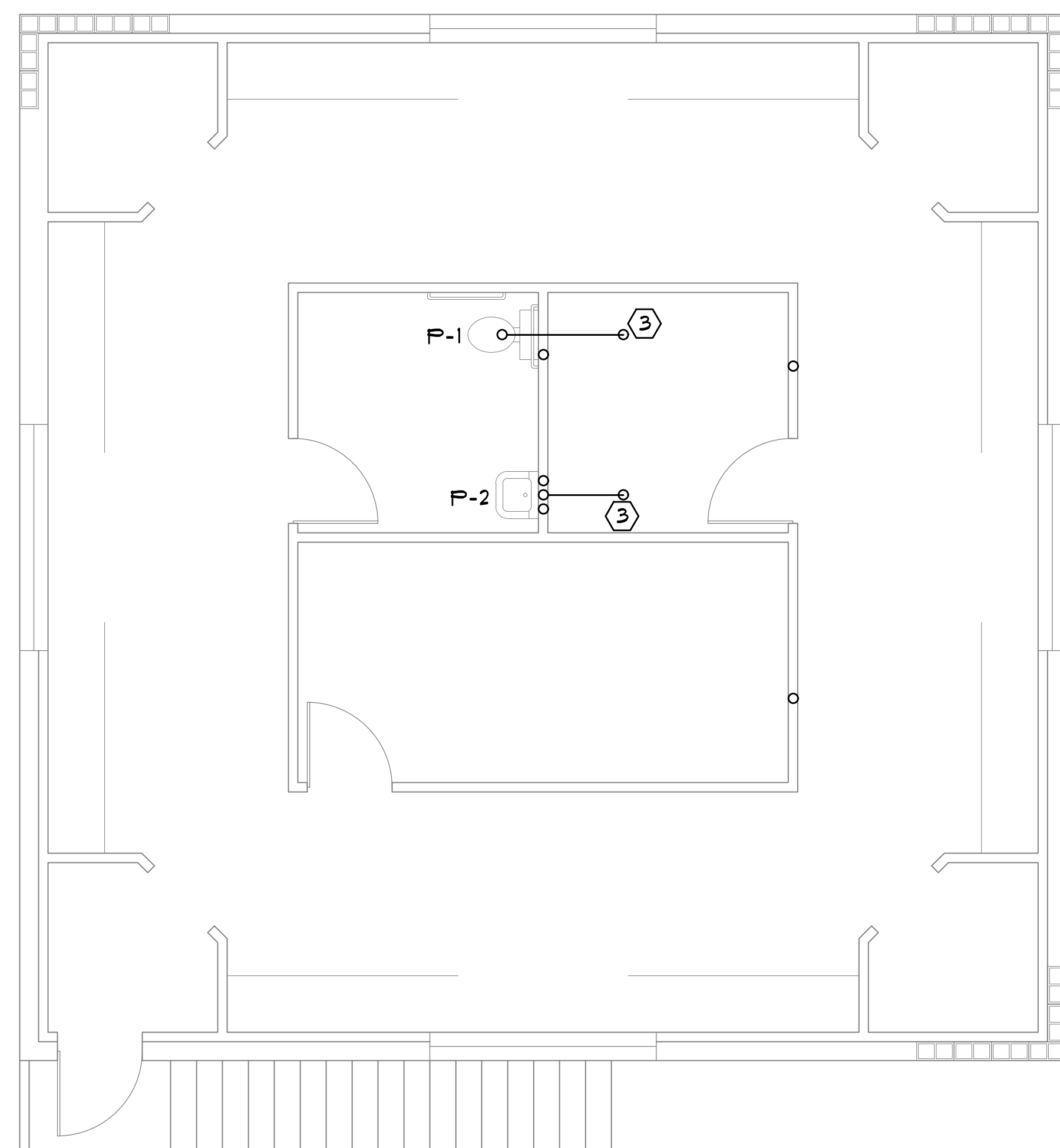
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- KEY:
- ① WATER HAMMER ARRESTOR
 - ② BALL VALVE, SAME NOMINAL SIZE AS PIPE BRANCH IN CHASE. OPENING IN BALL VALVE TO MATCH PIPE ID.
 - ③ PIPE SAME SIZE AS BRANCH IN CHASE TO WHICH IT IS ATTACHED.
- NOTE: PROVIDE REDUCER IF REQUIRED BETWEEN VALVE AND WATER HAMMER ARRESTOR.

TYPICAL WATER HAMMER PANEL INSTALLATION

SINGLE AND DOUBLE APPLICATION
N.T.S.

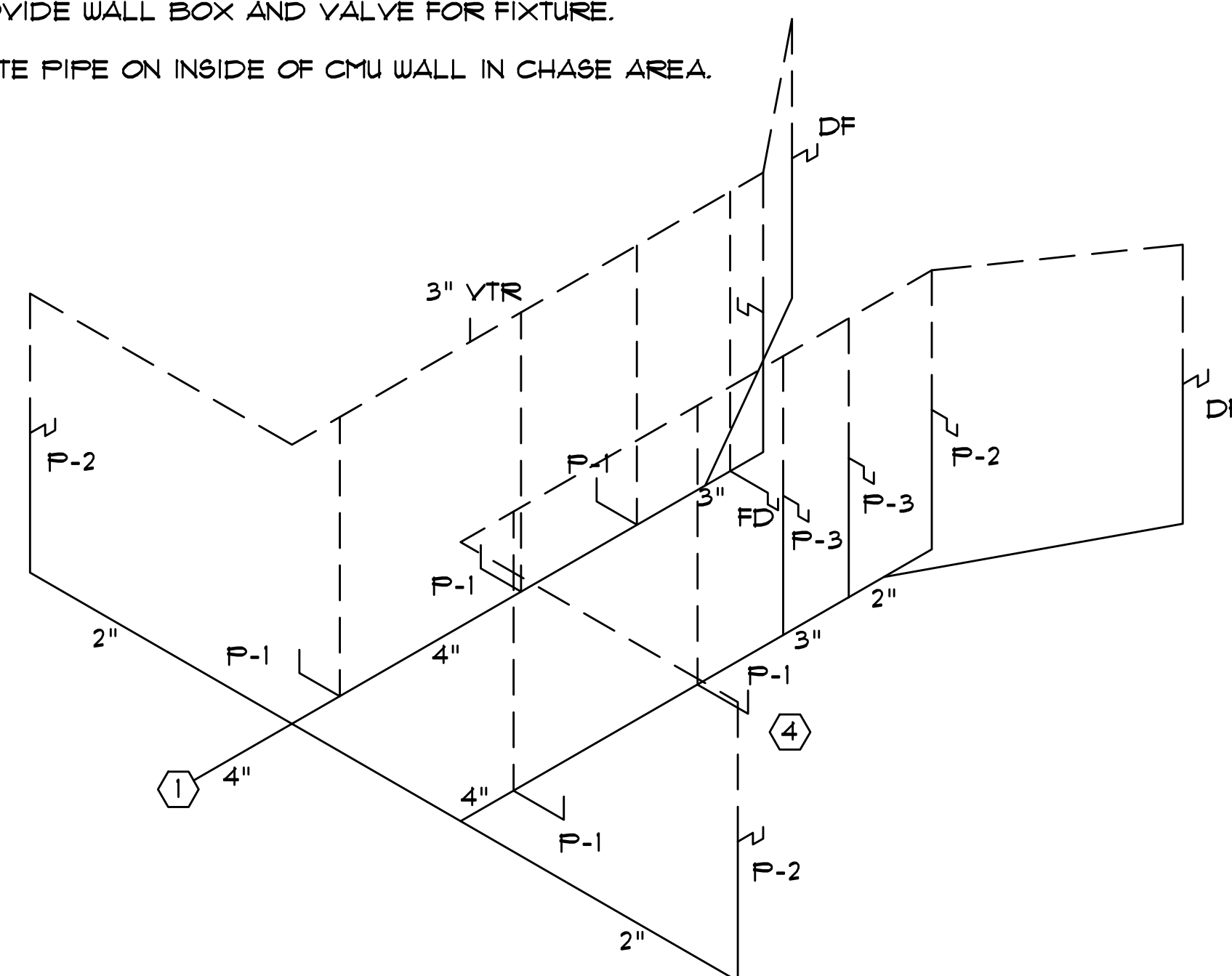


PLUMBING PLAN 2ND FLOOR - BLDG A

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

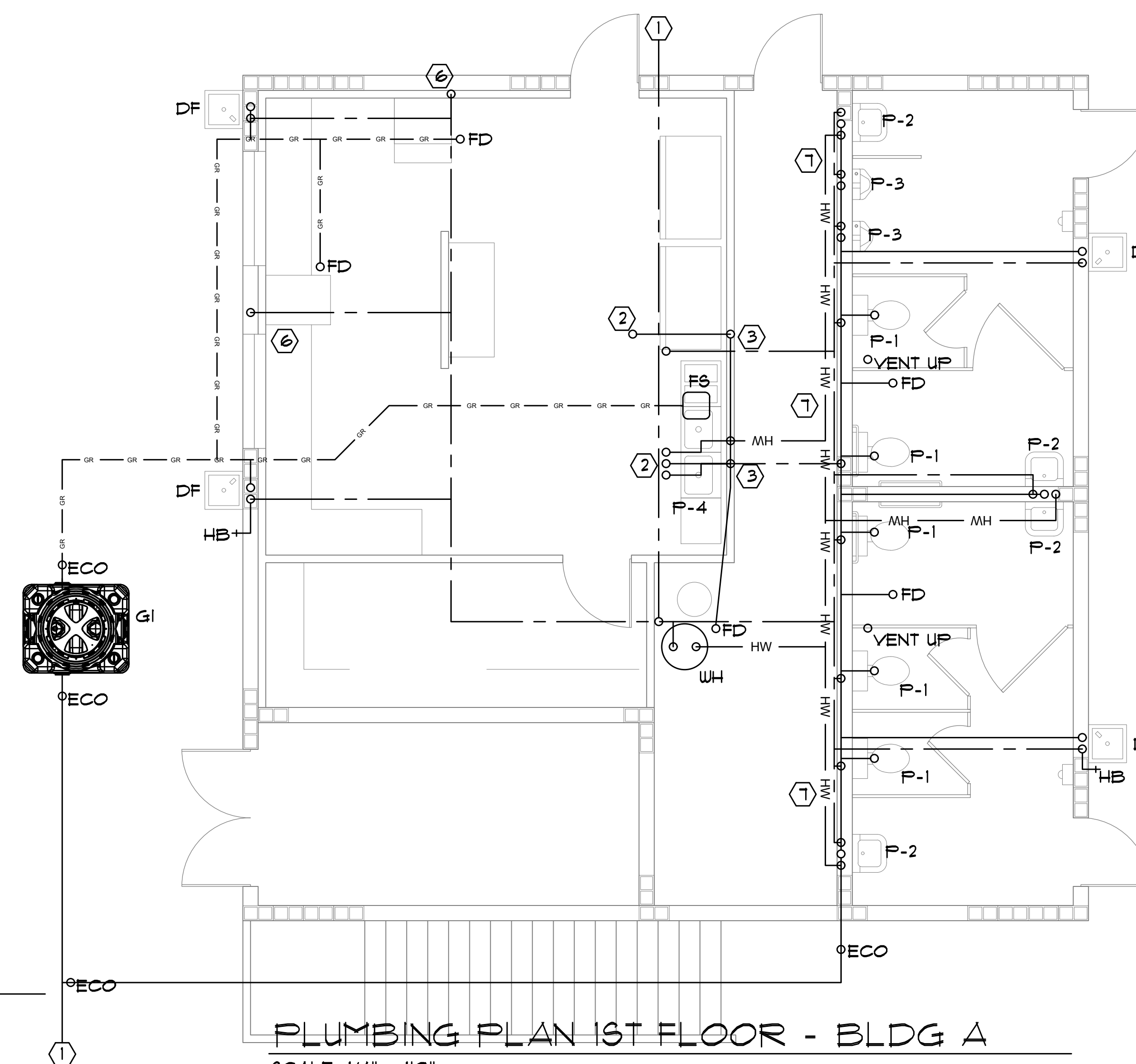
KEYNOTES:

- ① REFER TO CIVIL FOR CONTINUATION.
- ② UP TO FIXTURE ON 2ND FLOOR.
- ③ ROUTE PIPE DOWN WALL
- ④ PROVIDE WATER HAMMER, REFER TO DETAIL.
- ⑤ ROUTE VENT LINE UP INTERIOR WALL TO VENT THRU ROOF.
- ⑥ PROVIDE WALL BOX AND VALVE FOR FIXTURE.
- ⑦ ROUTE PIPE ON INSIDE OF CMU WALL IN CHASE AREA.



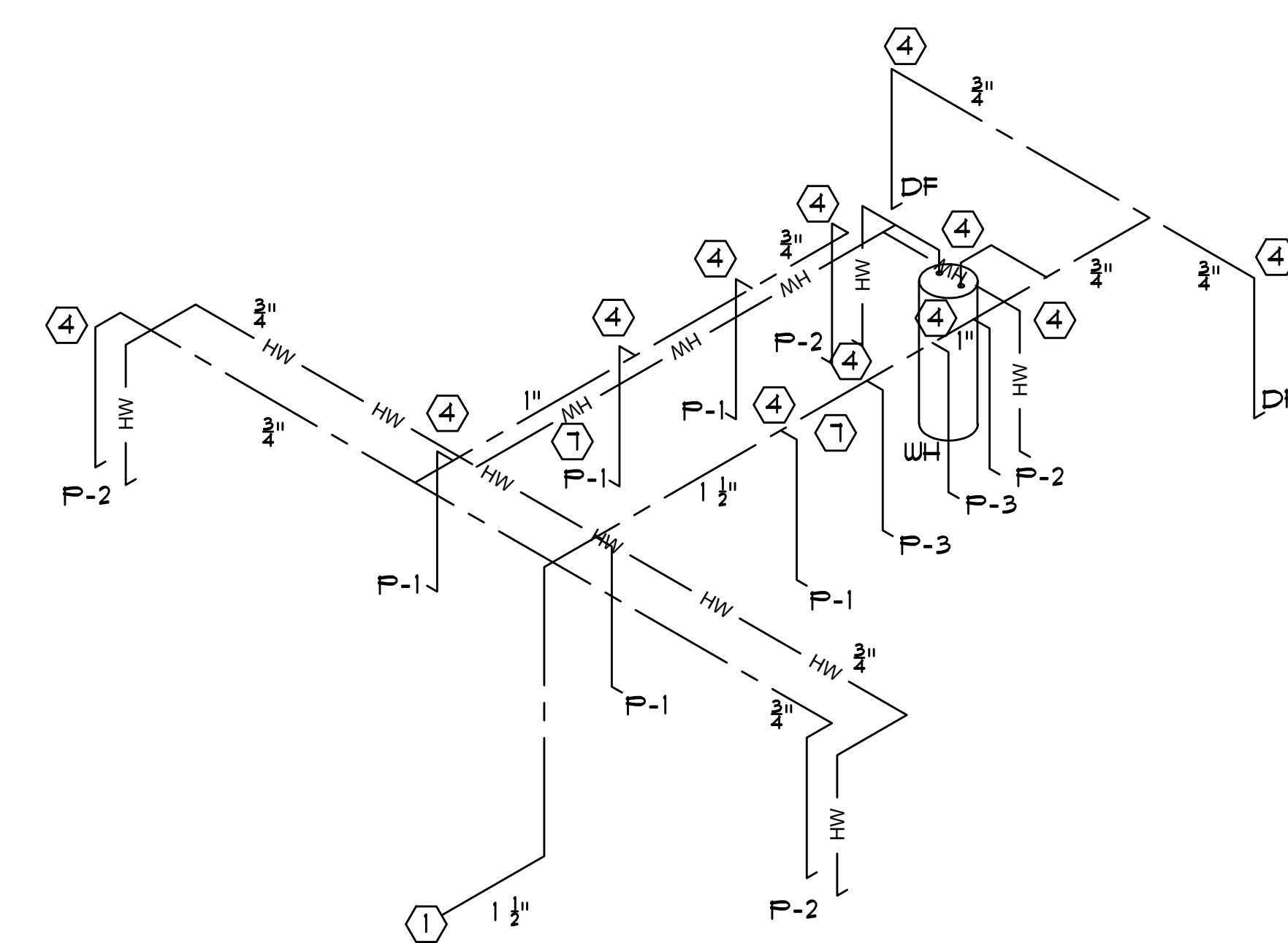
PLUMBING SANITARY RISER - BLDG C

SCALE: NTS



PLUMBING PLAN 1ST FLOOR - BLDG A

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



PLUMBING SANITARY RISER - BLDG C

SCALE: NTS

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