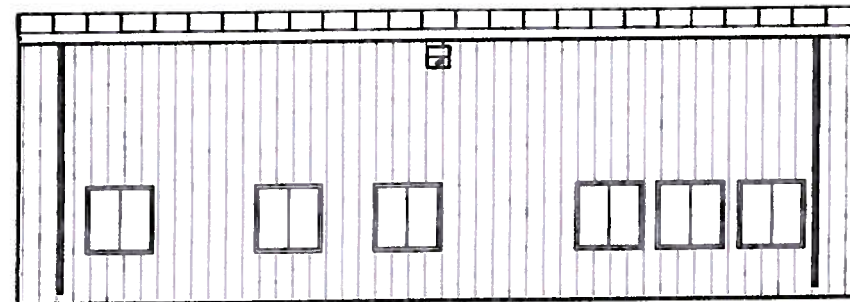
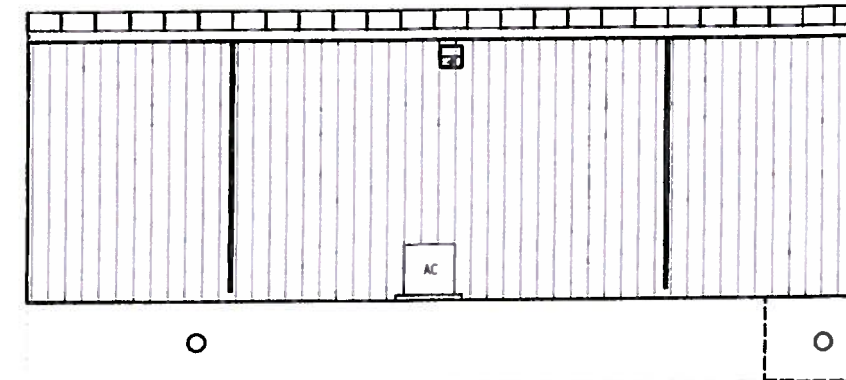


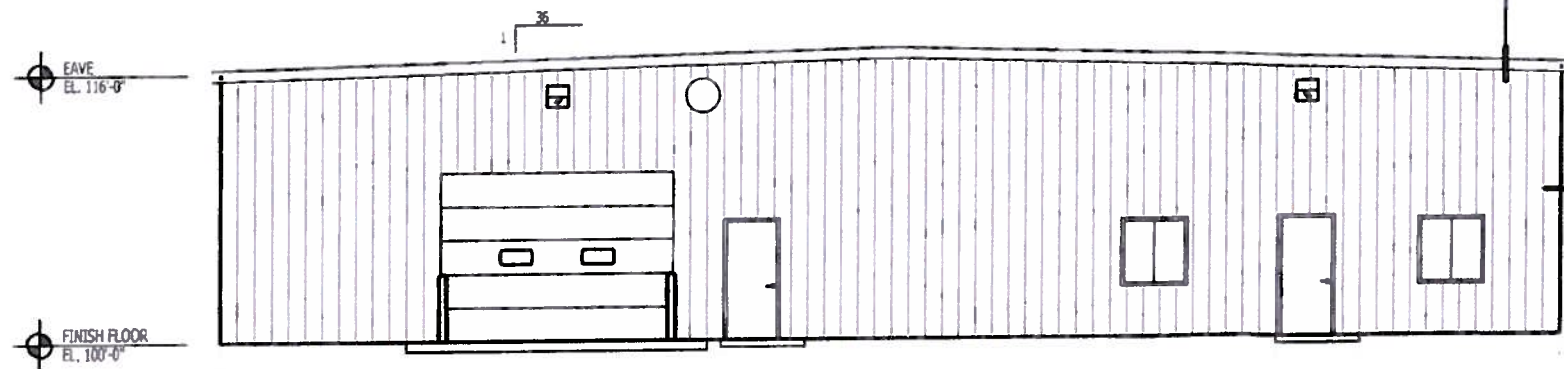
**1** EAST ELEVATION  
A2.1 SCALE: 3/16" = 1'-0" (22X39)  
SCALE: 3/32" = 1'-0" (11X17)



**2** SOUTH ELEVATION  
A2.1 SCALE: 3/16" = 1'-0" (22X39)  
SCALE: 3/32" = 1'-0" (11X17)



**3** NORTH ELEVATION  
A2.1 SCALE: 3/16" = 1'-0" (22X39)  
SCALE: 3/32" = 1'-0" (11X17)



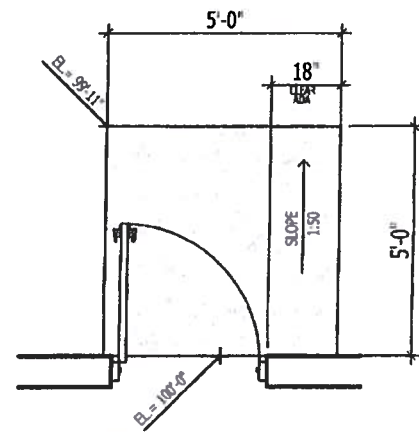
**4** WEST ELEVATION  
A2.1 SCALE: 3/16" = 1'-0" (22X39)  
SCALE: 3/32" = 1'-0" (11X17)

- 24 GA. SSR METAL ROOF PANEL  
COLOR: GALVANIZED
  - 1" THERMAL BLOCK
  - 8" PURLIN
  - 3" F.G. INSUL. OVER PURLIN (R=10)
  - 8" F.G. INSUL. BETWEEN PURLIN (R=24)
  - 6 MILL VAPOR BARRIER
  - 29 GA. NOM PERFORATED LINER PANEL  
COLOR: WHITE
- 26 GA. "VEE RIB" METAL PANEL  
COLOR: COOL GRANITE GRAY
  - 8" GIRT
  - 8" F.G. INSUL w/ V.B. (R=24)
  - 6 MILL VAPOR BARRIER
  - 29 GA. LINER PANEL / FURRING & GYP. BD.

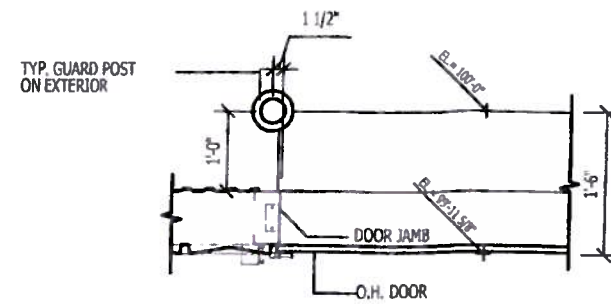
ROOF, WALL, & TRIM COLORS
ROOF PANEL: SSR
COLOR: GALVALUME
WALL PANEL: VEE RIB
COLOR: COOL GRANITE GRAY
EAVE TRIM COLOR: COOL COBALT BLUE
FRAMED OPENING COLOR: COOL COBALT BLUE
CORNER TRIM COLOR: COOL COBALT BLUE
BASE TRIM COLOR: COOL GRANITE GRAY
DOWN SPOUT COLOR: COOL GRANITE GRAY



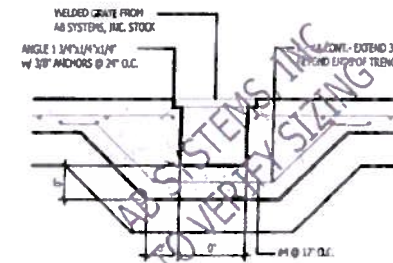
PROPOSED O&M BUILDING  
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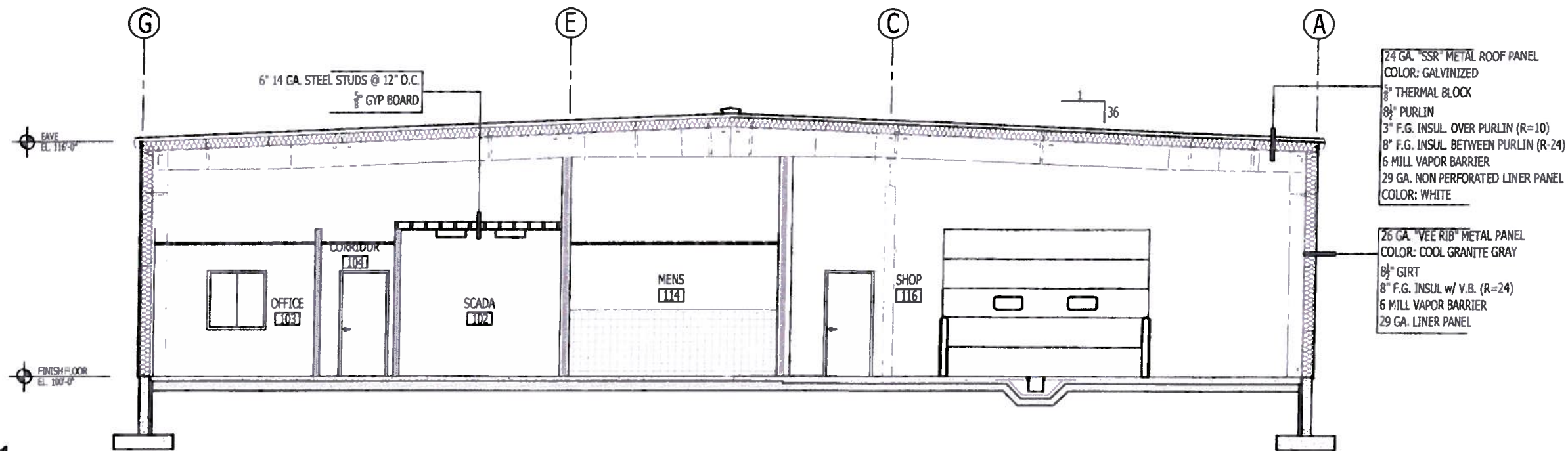
**2** STOOP DETAIL  
 A3.1 NOT TO SCALE



**3** GUARD POST AT OVERHEAD DOOR  
 A3.1 NOT TO SCALE



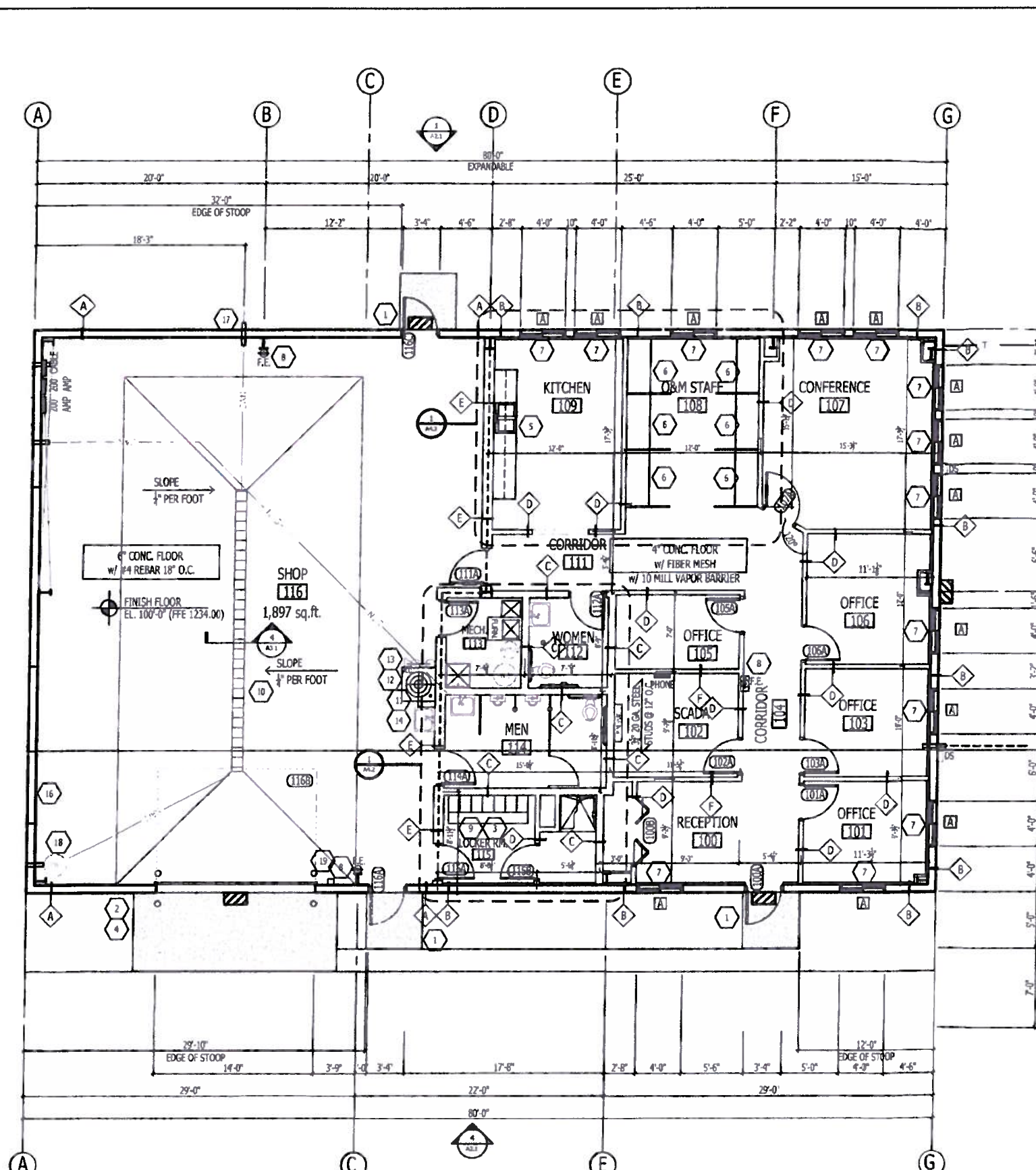
**4** TRENCH DRAIN DETAIL  
 A3.1 NOT TO SCALE



**1** BUILDING SECTION  
 A3.1 SCALE: 1/4" = 1'-0" (22X34)  
 SCALE: 1/8" = 1'-0" (11X17)



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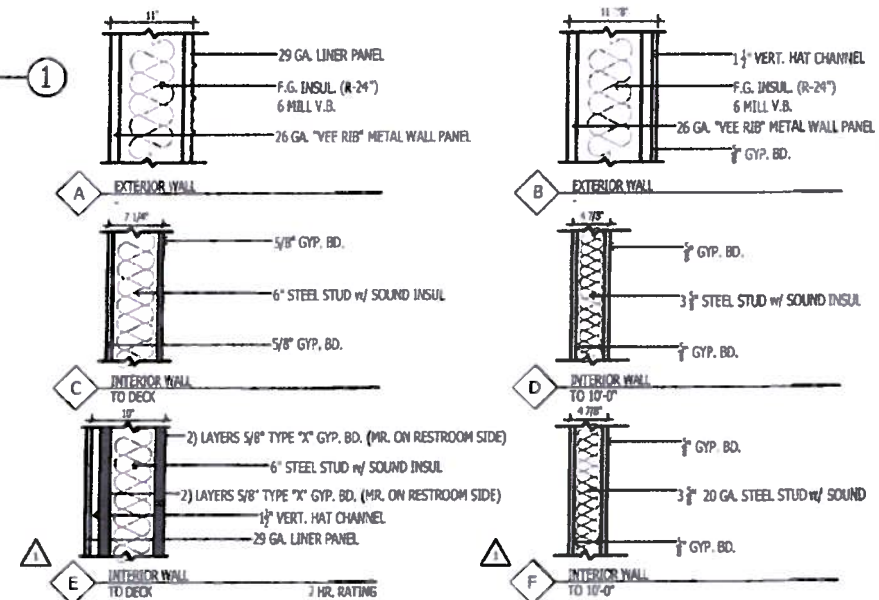
GENERAL NOTES:

- A. 4,000 sq. ft. BUILDING
- B. BUILDING NOT SPRINKLED
- C. OFFICE FLOOR TO BE CURED ONLY
- D. SHOP FLOOR TO BE CURED & SEALED

KEY NOTES:

- 1 5' x 5' x 5" FROST FREE STOOP w/ #4 REBAR EACH WAY (SEE DETAIL 2/A3.1)
- 2 7' x 18' x 7" CONC. APRON w/ #4 REBAR EACH WAY
- 3 7' 12" x 18" x 5" LOCKERS w/ NO LEGS
- 4 (4) 6" DIA. GUARD POST, 48" ABOVE GRADE, 36" BELOW GRADE (SEE DETAIL 3/A3.1)
- 5 1 1/2" IN. L. OF LAMINATE WALL & BASE CABINETS, w/ 12 IN. L. OF LAMINATE COUNTER TOP (SEE ELEVATION ON X/AX.1)
- 6 (6) PLASTIC LAMINATE COUNTER & DIVIDER
- 7 WINDOW SILLS TO FINISHED WITH CORIAN (13 TOTAL)
- 8 (3) 5 LB. FIRE EXTINGUISHERS - (1) w/ WALL SEMI RECESSED CABINET IN OFFICE, (2) w/ WALL BRACKET IN SHOP
- 9 LOCKER ROOM BENCH BRACKET 7 IN. L. (SEE DETAIL 5 / A3.1)
- 10 25" x 12" TRENCH DRAIN (SEE DETAIL 4/A3.1)
- 11 AC UNIT TO BE WALL HUNG
- 12 UTILITY SINK
- 13 EYE WASH
- 14 HAND SINK
- 15 SEWER - 4" SLEEVE / 24" BELOW FINISH FLOOR
- 16 WATER - 4" SLEEVE / 60" TO 72" BELOW FINISH FLOOR
- 17 FUTURE TRENCH DRAIN - 3" PIPE STUBBED OUT w/ 4" SLEEVE 8" BELOW FINISH FLOOR
- 18 FLAMMABLE WASTE - 6" SLEEVE, BOTTOM OF SLEEVE TO 27" BELOW FINISH FLOOR
- 19 LOCATION OF OVERHEAD DOOR OPERATOR

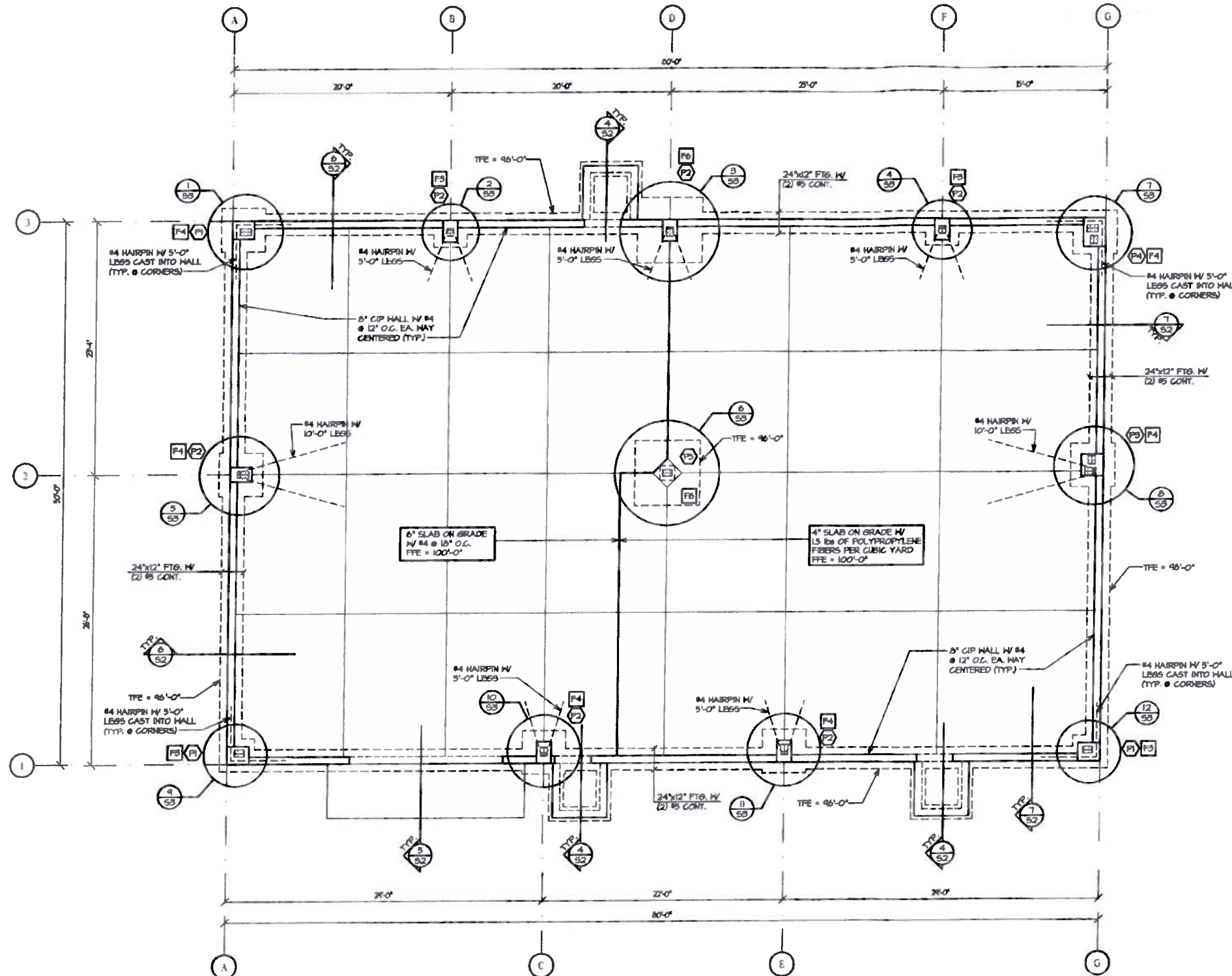
2 WALL TYPES:  
A1.1



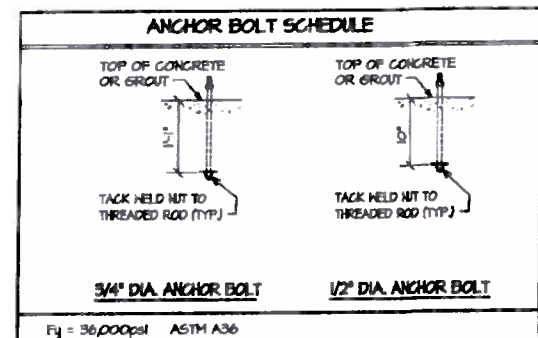
**1 FLOOR PLAN**  
A1.1  
SCALE: 3/16" = 1'-0" (22/34)  
SCALE: 3/32" = 1'-0" (11/17)



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**NOTES:**  
 • CONTRACTOR TO INSTALL A SMOOTH FINISH ON TOP OF CONCRETE FOUNDATION WALL.  
 • 1/2 INCH EXPANSION JOINT SHOULD BE PLACED BETWEEN THE OUTSIDE CONCRETE WALL AND THE FLOOR THAT IS POURED AGAINST IT. IT SHOULD BE APPROXIMATELY 1/2" DOWN THE TOP OF THE FLOOR SHOULD BE EDGED.  
 • CONCRETE CONTRACTOR TO EDGE AROUND ALL PIERS AND BETWEEN CONCRETE FOUNDATION WALLS AND FLOOR.  
 • SEE STRUCTURAL NOTES FOR CHAMFERS AT PROJECTING CORNERS OF SLABS, FOUNDATION WALLS, AND PIERS.



**FOOTING SCHEDULE**

MARK	SIZE	REINFORCING
F1	3'-0"x8'-0"x12"	(3) #5 EACH WAY
F4	4'-0"x4'-0"x12"	(4) #5 EACH WAY
F6	6'-0"x6'-0"x14"	(6) #5 EACH WAY

**PIER SCHEDULE**

MARK	SIZE	DETAIL
P1	20"x24" CIP PIER W/ (6) #5 VERT. & 4 DMLS. TO FTG. & #5 TIES @ 10" O.C. ADD (3) ADDITIONAL TIES IN TOP 5" OF PIER (TFE = 100'-0")	[Diagram]
P2	16"x24" CIP PIER W/ (6) #5 VERT. & 4 DMLS. TO FTG. & #5 TIES @ 10" O.C. ADD (3) ADDITIONAL TIES IN TOP 5" OF PIER (TFE = 100'-0")	[Diagram]
P3	24"x24" CIP PIER W/ (6) #5 VERT. & 4 DMLS. TO FTG. & #5 TIES @ 10" O.C. ADD (3) ADDITIONAL TIES IN TOP 5" OF PIER (TFE = 100'-0")	[Diagram]
P4	24"x32" CIP PIER W/ (10) #5 VERT. & 4 DMLS. TO FTG. & #5 TIES @ 10" O.C. ADD (3) ADDITIONAL TIES IN TOP 5" OF PIER (TFE = 100'-0")	[Diagram]
P5	16"x16" CIP PIER W/ (4) #5 VERT. & 4 DMLS. TO FTG. & #5 TIES @ 10" O.C. ADD (3) ADDITIONAL TIES IN TOP 5" OF PIER (TFE = 95'-0")	[Diagram]

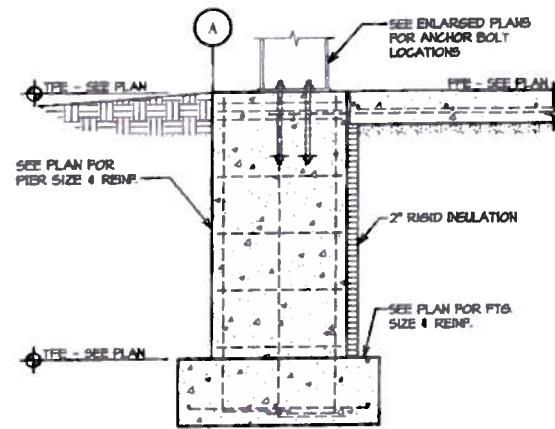
**FOUNDATION PLAN**  
 5/16" = 1'-0"

**TYPICAL UNLESS NOTED OTHERWISE:**

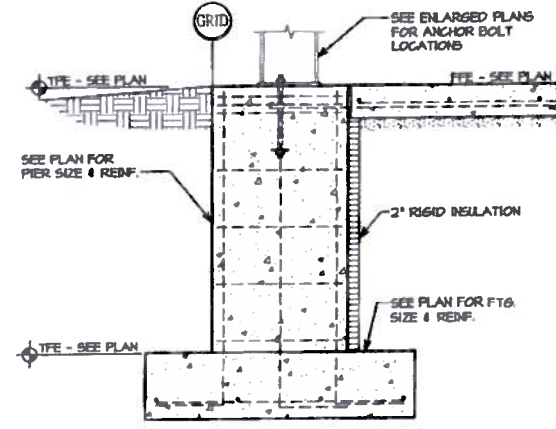
- FRESH FLOOR ELEVATION (FFE) = 100'-0"
- FORM CONTRACTION JOINTS (C/J) OR SAWCUT WITHIN 12 HOURS OF CONG. PLACEMENT - SEE 2/52
- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DWS.
- VERIFY ALL SIZES & LOCATIONS OF OPENINGS WITH ARCHITECTURAL DWS.
- TOP OF FOOTING ELEVATION (TFE) - SEE PLAN
- STEPPED FOOTING DETAIL - SEE 1/52
- CONTRACTOR OPTIONS AT MECHANICAL & ELECTRICAL LINES BENEATH FOOTINGS - SEE 3/52



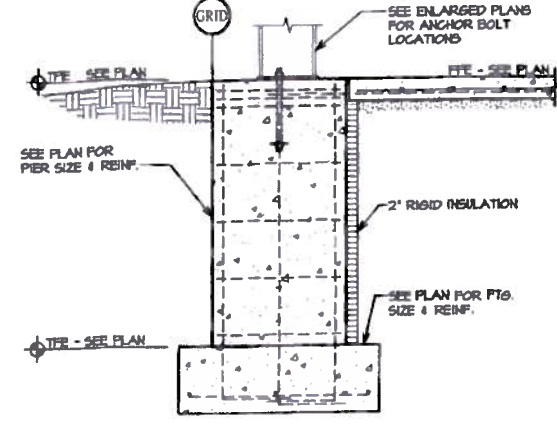
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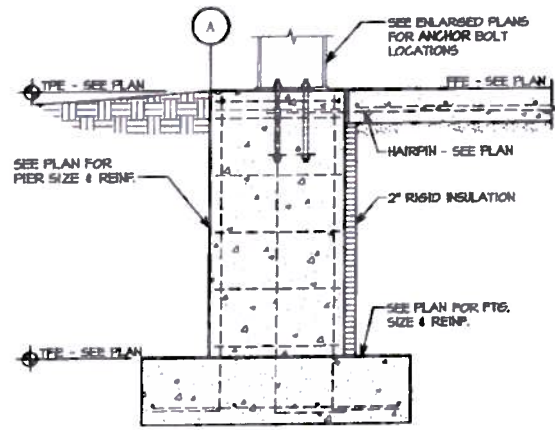
1 SECTION  
 54 3/4" = 1'-0"



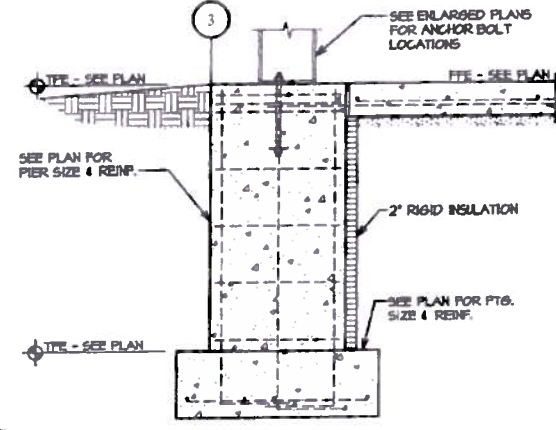
2 SECTION  
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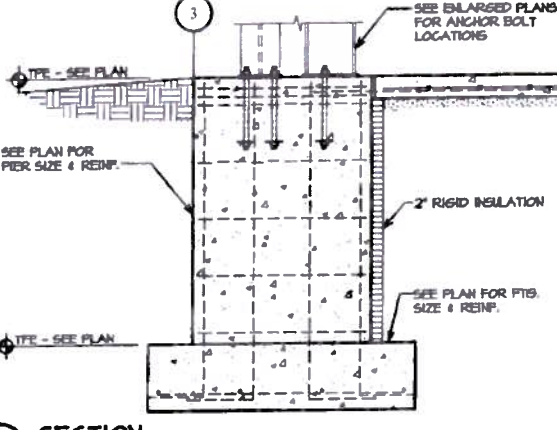
3 SECTION  
 54 3/4" = 1'-0"



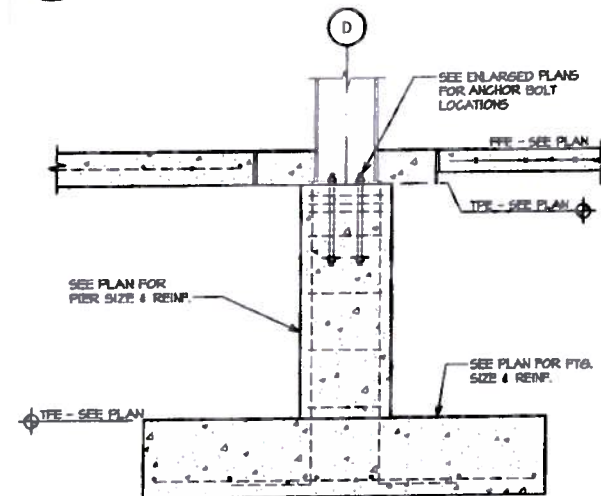
5 SECTION  
 54 3/4" = 1'-0"



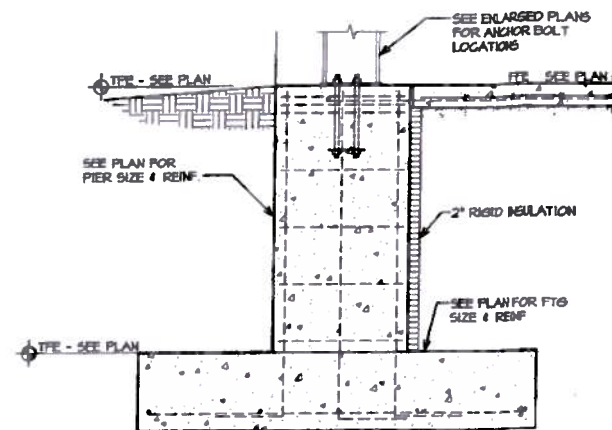
6 SECTION  
 54 3/4" = 1'-0"



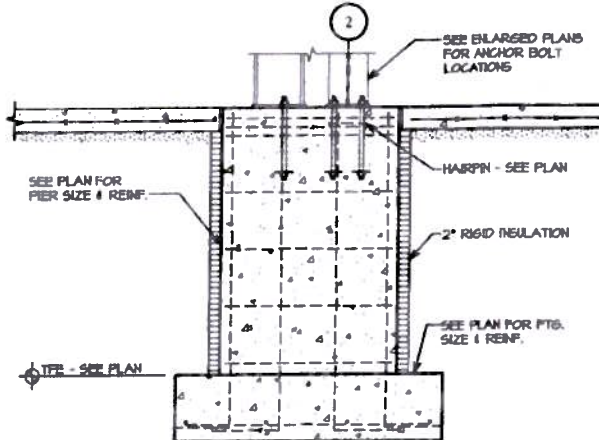
7 SECTION  
 54 3/4" = 1'-0"



4 SECTION  
 54 3/4" = 1'-0"



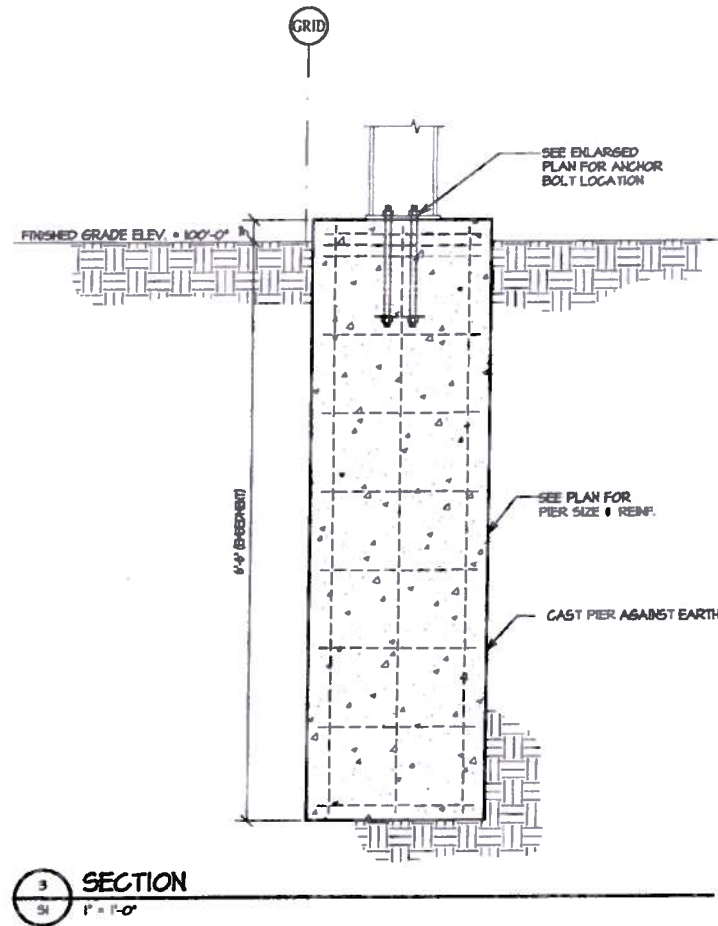
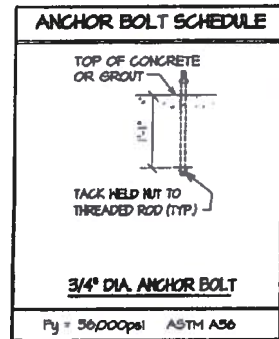
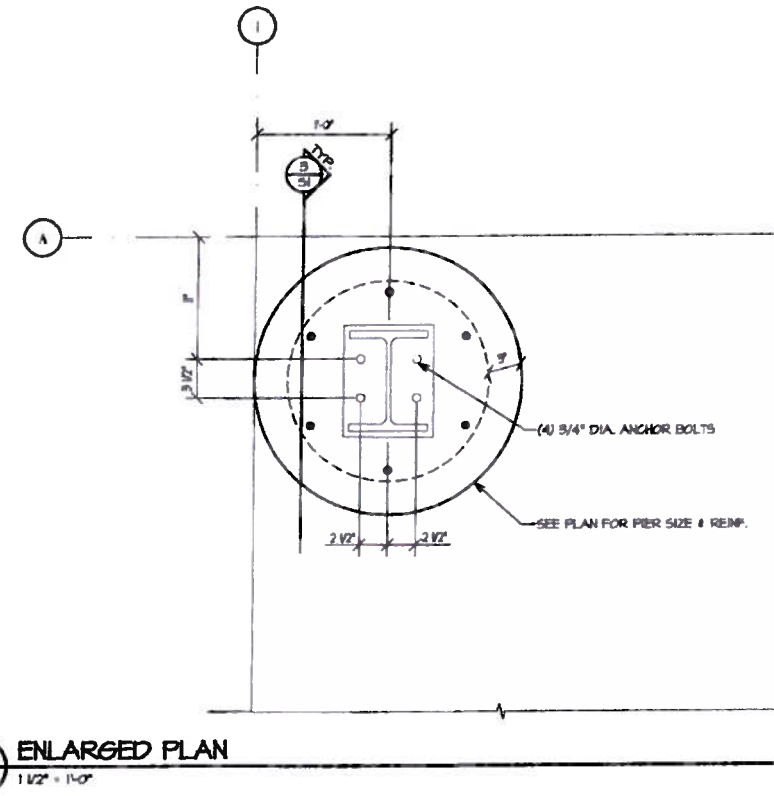
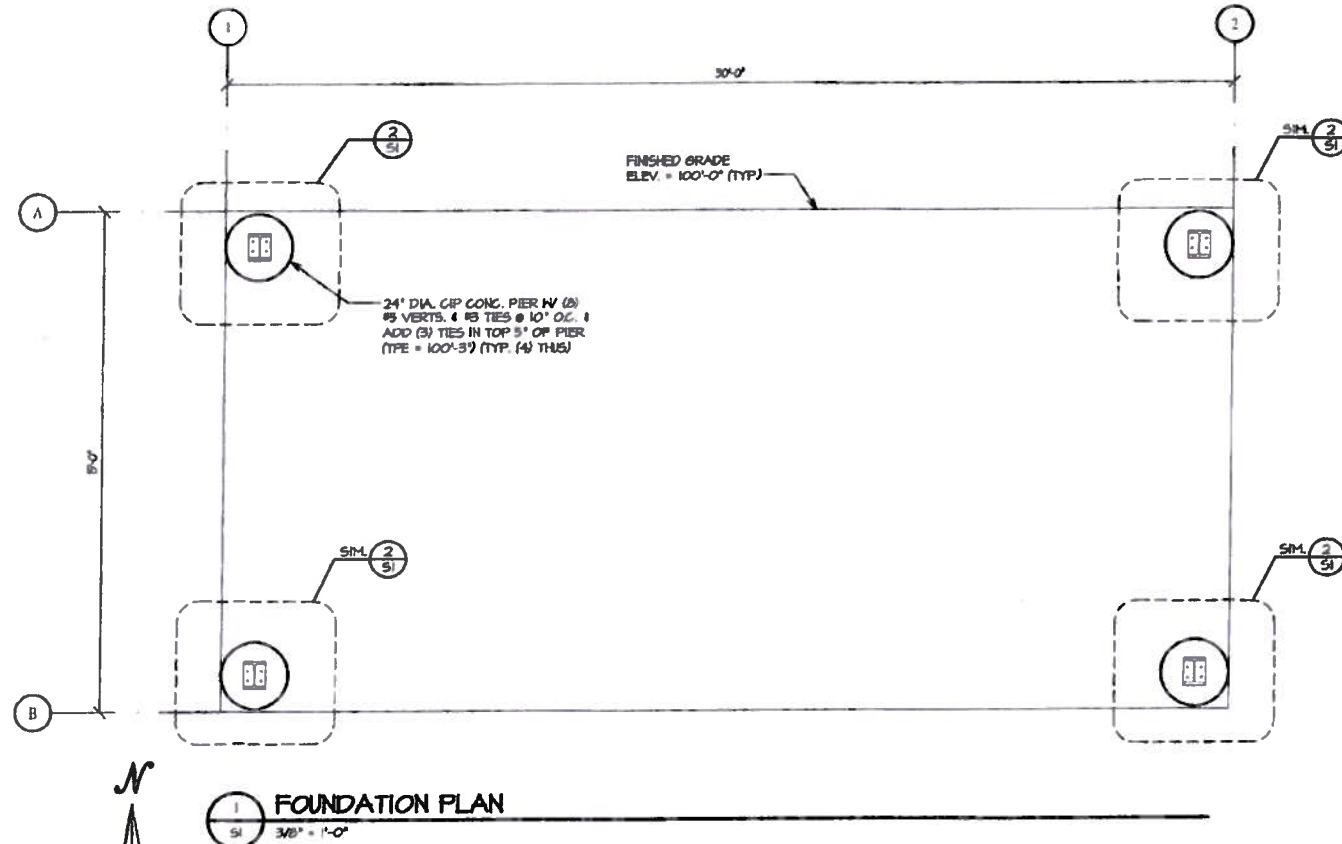
8 SECTION  
 54 3/4" = 1'-0"



8 SECTION  
 54 3/4" = 1'-0"



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STRUCTURAL NOTES

GENERAL

- NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER THESE STANDARD STRUCTURAL NOTES.
- ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING CODES, SPECIFICATIONS, AND DESIGN MANUAL (LATEST EDITION UNLESS NOTED):
  - 2009 INTERNATIONAL BUILDING CODE (IBC) WITH AMENDMENTS
  - AMERICAN CONCRETE INSTITUTE (ACI)
  - CONCRETE REINFORCING STEEL INSTITUTE (CRSI) MANUAL OF STANDARD PRACTICE (FOR PLACING & DETAILING OF ALL REINFORCING)
  - STATE AND FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED, IN WRITING, OF ANY DISCREPANCIES.
- IN NO CASE SHALL DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THE STRUCTURAL DRAWINGS.
- TYPICAL DETAILS SHALL BE USED WHENEVER APPLICABLE.
- ALL QUESTIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF, AND RESOLVED WITH THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
- THE CONTRACTOR SHALL DETERMINE THE LOCATION OF UTILITY SERVICES IN THE AREA TO BE EXCAVATED BEFORE BEGINNING EXCAVATION.

DESIGN DATA

- ASSUMED COLUMN REACTION (KIP):

GRID LOCATION	VERTICAL (UP/DN)	VERTICAL (DOWN/UP)	HORIZ. (LEFT/RT)	HORIZ. (RT/LEFT)	WIND/DIR
1A, 1B, 2A, 2B	1.0	2.0	2.0	1.0	1.0

FOOTINGS AND FOUNDATIONS

- NET ALLOWABLE SOIL BEARING PRESSURE:
  - F<sub>a</sub> = 1800 psf
- THE NET ALLOWABLE SOIL BEARING PRESSURE SHALL BE FIELD VERIFIED BY SOILS ENGINEER PRIOR TO PLACING FOOTINGS.
- ALL SITE SOIL WORK SHALL BE DONE UNDER THE DIRECT OBSERVATION OF A SOILS ENGINEER.
- WATER LEVELS ARE SUBJECT TO SEASONAL AND/OR ANNUAL VARIATIONS. IF NECESSARY A DRAINAGE SYSTEM OF SUFFICIENT CAPACITY SHALL BE INSTALLED AND OPERATED TO MAINTAIN THE CONSTRUCTION AREA FREE OF WATER AT ALL TIMES.
- MINIMUM DEPTH FROM EXTERIOR GRADE TO BOTTOM OF FOOTING NOT ADJACENT TO HEATED SPACE SHALL BE 30 INCHES.
- PROTECT FOUNDATION EXCAVATIONS FROM FROST; DO NOT PLACE CONCRETE ON FROZEN GROUND.
- FOUNDATION EXCAVATIONS SHALL BE KEPT FREE OF LOOSE MATERIAL AND STANDING WATER AND SHALL BE CHECKED AND APPROVED BY THE SOILS ENGINEER BEFORE THE PLACEMENT OF ANY CONCRETE.
- UNLESS OTHERWISE NOTED, WALL FOOTINGS ARE CENTERED UNDER WALLS AND COLUMN FOOTINGS UNDER COLUMNS.

REINFORCING STEEL

- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301 (LATEST EDITION) "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THESE NOTES.
- BAR REINFORCEMENT SHALL BE ASTM A615, GRADE 60
- WELDED WIRE FABRIC SHALL MEET ASTM A105.
- CONTRACTOR SHALL SUBMIT REINFORCING STEEL SHOP DRAWINGS FOR APPROVAL BEFORE FABRICATION AND INSTALLATION.
- ALL REINFORCING STEEL, ANCHOR BOLTS, DONNELLS, AND ASSETS SHALL BE SECURED IN POSITION WITH WIRE POSITIONERS BEFORE PLACING CONCRETE OR GROUT.
- DONNELLS BETWEEN FOOTINGS AND WALLS SHALL BE THE SAME GRADE, SIZE, AND SPACING AS VERTICAL WALL REINFORCING.
- MINIMUM LAP SPACES OF REINFORCING BARS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
  - CONCRETE, CLASS B AS DEFINED IN ACI 318-05 OR CHART BELOW.

BAR SIZE	CONCRETE REINFORCING LAP SPACE LENGTHS	
	LAP LENGTH (3/4" CLR.) (INCHES)	LAP LENGTH (2" CLR.) (INCHES)
#3	17	17
#4	28	23
#5	41	28

- REINFORCING STEEL SHALL BE PROVIDED WITH THE FOLLOWING AMOUNTS OF COVER FOR CAST-IN-PLACE CONCRETE:
  - CONCRETE PLACED AGAINST EARTH ..... 3"

REINFORCED CONCRETE

- CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (F<sub>c</sub>), MAXIMUM WATER-CEMENT (W/C) RATIO AND MAXIMUM SLUMP AS FOLLOWS:
 

	F <sub>c</sub> (P.S.I.)	MAXIMUM W/C RATIO	MAX. SLUMP (INCHES)
FOOTINGS	3,000	0.50	5
- CONTRACTOR SHALL SUBMIT MIX DESIGNS FOR APPROVAL 14 DAYS PRIOR TO FABRICATION AND INSTALLATION. ALL CONCRETE MIXES SHALL BE DESIGNED AND CERTIFIED BY A MATERIALS TESTING LABORATORY.
- ADMixTURES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER (CALCIUM CHLORIDE SHALL NOT BE USED).
- ADMixTURES SHALL COMPLY WITH ASTM C494 AND BE OF A TYPE THAT INCREASES THE DURABILITY OF THE CONCRETE, BUT SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM COVERED CONTENT.
- CEMENT SHALL CONFORM TO ASTM C150, TYPE I.
- READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94.
- REFER TO DRAWINGS OF OTHER DISCIPLINES FOR WELDS, GROOVES, CLIPS, ORNAMENTS, DECORATES, ETC. REQUIRED TO BE CAST INTO CONCRETE.
- PROJECTING CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC. SHALL BE FORMED WITH A 3/4" CHAMFER.
- NO CONCRETE PLACED IN A CONCRETE SLAB SHALL HAVE AN OUTSIDE DIAMETER GREATER THAN 1/3 THE THICKNESS OF THE SLAB. NO CONCRETE SHALL BE COVERED BY A SLAB THAT IS LESS THAN 3-1/2" THICK. EXCEPT FOR LOCAL OFFSETS, MINIMUM CLEAR DISTANCE BETWEEN CONDUITS SHALL BE 6".

