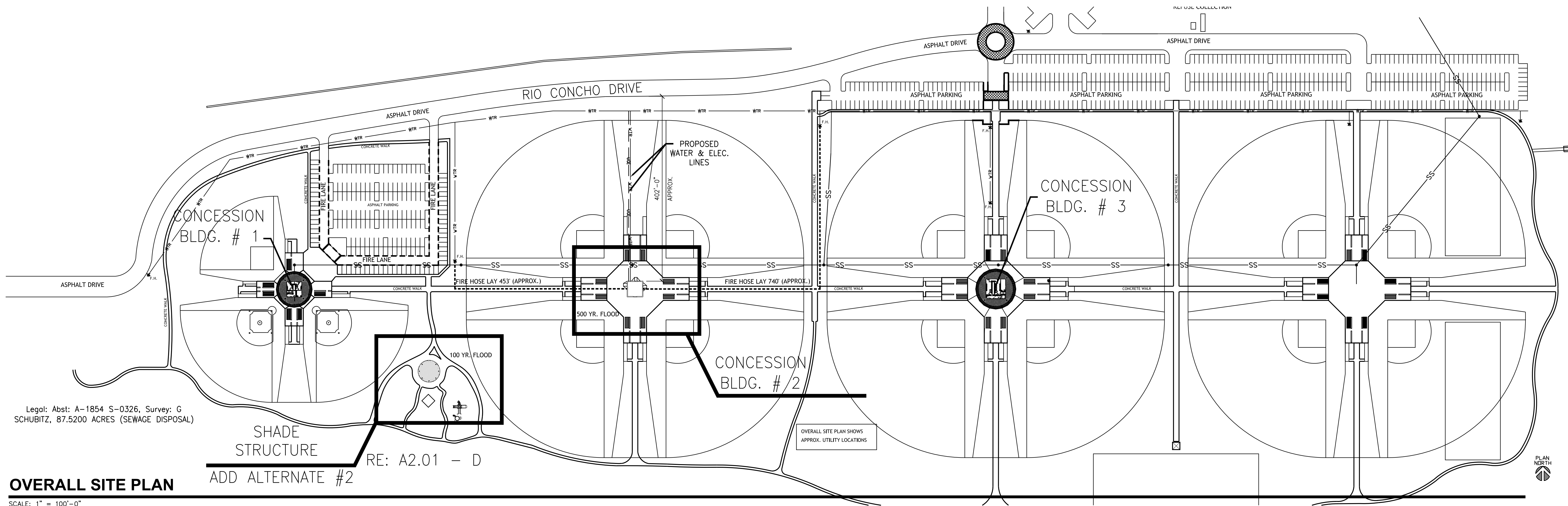


RIO CONCHO COMMUNITY PARK
TEXAS BANK SPORTS COMPLEX
CONCESSION BUILDING #2
SAN ANGELO, TEXAS



Legal: Abst: A-1854 S-0326, Survey: G
SCHUBITZ, 87.5200 ACRES (SEWAGE DISPOSAL)

OVERALL SITE PLAN

SCALE: 1" = 100'-0"

SHADE
STRUCTURE
ADD ALTERNATE #2
RE: A2.01 - D

2015 INTERNATIONAL BUILDING CODE

PROJECT GENERAL NOTES:

- THE CONTRACTOR IS TO COORDINATE SECURITY MEASURES WITH OWNER BEFORE CONSTRUCTION STARTS. PROVIDE AND INSTALL SECURITY BARRIERS TO PROTECT PUBLIC FROM ENTERING PROJECT WORK AREA AS REQUIRED.
- THE CONTRACTOR SHALL REVIEW AND COORDINATE REQUIRED STAGING AREA FOR THIS PROJECT WITH THE OWNER'S MAINTENANCE DEPARTMENT.
- THE CONTRACTOR SHALL CLEAN THE WORK AND STAGING AREAS AT THE END OF EACH WORK DAY. ALL DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE AND JOB CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE SUBMITTING BID.
- THE CONTRACTOR SHALL TAKE EVERY PRECAUTION NECESSARY TO PROTECT EXISTING BUILDINGS AND EQUIPMENT. EQUIPMENT SHALL REMAIN IN SERVICE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL JOB VERIFY ACTUAL LOCATIONS OF UTILITY LINES AND SERVICES ON THE JOB SITE. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ENGINEER'S COORDINATION OF UTILITY INSTALLATION.
- THE CONTRACTOR SHALL SECURE AND COMPLY WITH PERMITS FROM THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ), ON THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) PROGRAM. THIS PERMIT ALSO COVERS STORM WATER DISCHARGES. THE SOURCE FOR THIS INFORMATION WAS OBTAINED AT TCEQ WEBSITE: TPDES CONSTRUCTION STORM WATER PERMITS AT WWW.TNCC.STATE.TX.US/PERMITTING/WATERPERM/WWWPERM/CONSTRUCT.HTML

- THE FOLLOWING ARE STEPS SET FORTH BY THE STATE:
- OBTAIN A COPY OF THE TCEQ CUP TYPES PERMIT NO. T0910000.
 - DEVELOP AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPP).
 - BEFORE CONSTRUCTION BEGINS, COMPLETE AND POST A SITE NOTICE.

PLUMBING REQUIREMENTS FOR CONCESSION BUILDING #2 AT THE RIO CONCHO SPORTS COMPLEX - COSA

TABLE 2002.1. MINIMUM NUMBER OF PLUMBING FACILITIES

2015 INTERNATIONAL BUILDING CODE

ASSEMBLY GROUP - A2 OCCUPANCY

AREA "A2" 2,061 SQ. FT. / 15 + 138 PERSONS
AREA "B" 280 SQ. FT. / 100 + 2 PERSONS

138 PERSONS AT AREA "A2" AND 2 PERSONS AT ACCESSORY AREA "B" = 140 TOTAL PERSONS IN THIS BUILDING

140 TOTAL PERSONS DIVIDED BY 2 = 70 MALE AND 70 FEMALE OCCUPANTS OF THIS BUILDING

MALE PLUMBING FIXTURES REQUIRED

70 WATER CLOSETS + 70 URINALS REQUIRED

70 MALES / 75 = 1 LAVATORIES REQUIRED

MALE PLUMBING FIXTURES PROVIDED

WATER CLOSETS + 70 MALE URINALS ARE PROVIDED

TOTAL MALE WATER CLOSET FIXTURES PROVIDED = 71

LAVATORIES = 2 MALE LAVATORIES PROVIDED

70 FEMALE PLUMBING FIXTURES REQUIRED

70 FEMALE WATER CLOSETS REQUIRED

70 FEMALES / 75 = 1 LAVATORIES REQUIRED

FEMALE PLUMBING FIXTURES PROVIDED

WATER CLOSETS + 70 FEMALE URINALS ARE PROVIDED

LAVATORIES = 2 FEMALE LAVATORIES PROVIDED

DRINKING FOUNTAINS

1 DRINKING FOUNTAIN IS REQUIRED.

WE HAVE PROVIDED TWO DRINKING FOUNTAINS.

SERVICE SINK PLUMBING FIXTURES

1 SERVICE SINK IS REQUIRED.

WE HAVE PROVIDED ONE SERVICE SINK.

EXISTING BUILDINGS

CONCESSION BUILDING #1:

TOTAL GROSS BUILDING = 3,217 SQ. FT.

CONCESSIONS & RESTROOMS

CONCESSION BUILDING #3:

TOTAL GROSS BUILDING = 4,374 SQ. FT.

CONCESSIONS & RESTROOMS

GENERAL INFORMATION: COMPLEX #2 IS AN ADDITION TO THE RIO CONCHO SPORTS COMPLEX FOR THE CITY OF SAN ANGELO, TEXAS. THIS BUILDING HAS AN OPEN COVERED DINING AREA AROUND THE PERIMETER. THE APPROXIMATE GROSS SQUARE FOOTAGE IS 3,217 SQUARE FEET AND THE BUILDING IS TO BE CONSTRUCTED WITH EXTERIOR AND INTERIOR CONCRETE MASONRY UNIT WALLS. THIS STRUCTURE WILL CONTAIN A FIRE SPRINKLER SYSTEM. THE ROOF WILL BE FLAT WITH A SINGLE PLY ROOFING SYSTEM. THERE IS A 2,061 SQUARE FOOT PERIMETER AWNING. THIS FACILITY WILL BE SLAB ON GRADE CONSTRUCTION.

SECTION 304.1: THE MAIN OCCUPANCY FOR THIS FACILITY IS A2, ASSEMBLY GROUP. THIS IS AN OUTDOOR DINING FACILITY WITH FOOD PROCESSING BUILDING AT A BASEBALL FIELD. - THIS A2 OCCUPANCY.

TABLE 504.3: BLDG HEIGHT IN FEET ABOVE GRADE PLANE:
OCCUPANCY = B - SPRINKLERED / BUILDING TYPE = SB - PER CODE = A MAXIMUM OF 60 FEET ABOVE GRADE PLANE. THIS FACILITY HAS AN ACTUAL HEIGHT OF 32 FEET ABOVE GRADE PLANE.

TABLE 504.4: NUMBER OF STORIES ABOVE GRADE PLANE:
OCCUPANCY = B - SPRINKLERED / BUILDING TYPE = SB - PER CODE = A MAXIMUM OF 3 STORIES ABOVE GRADE PLANE. THIS FACILITY HAS AN ACTUAL STORY HEIGHT OF ONE SINGLE STORY ABOVE GRADE PLANE.

TABLE 506.2: ALLOWABLE AREA FACTOR IN SQUARE FEET:
OCCUPANCY = B - SPRINKLERED / BUILDING TYPE = SB - PER CODE = A MAXIMUM 24,000 SQUARE FEET IS ALLOWABLE. THIS FACILITY HAS AN ACTUAL HEATED AREA OF 1,146 SQUARE FEET WITH 2,061 FEET OF COVERED PORCHES FOR A TOTAL OF 3,217 SQUARE FEET OF ROOFED AREA.

SECTION 508.2.4: SEPARATION OF OCCUPANCIES:
NO SEPARATION IS REQUIRED BETWEEN ACCESSORY OCCUPANCIES AND THE MAIN OCCUPANCY IN A "A2" OCCUPANCY.

TABLE 508.4: REQUIRE SEPARATION OF OCCUPANCIES IN HOURS:
OCCUPANCY = A2 - SPRINKLERED / BUILDING TYPE = SB - PER CODE = THERE IS NO SEPARATION REQUIRED BETWEEN AN OCCUPANCY OF "A2" GROUP ASSEMBLY AND "B" FOOD PROCESSING IN THIS FACILITY. "B" IS AN ACCESSORY SPACE LESS THAN 10% OF "A2".

SECTION 602.5: TYPE V CONSTRUCTION:
THIS BUILDING'S AREA AND HEIGHT ENABLES THIS BUILDING TO BE A TYPE VB CONSTRUCTION.

SECTION 703.3.4: FIRE BARRIERS - SEPARATE OCCUPANCIES:
OCCUPANCY = A2 - SPRINKLERED / BUILDING TYPE = SB - PER CODE = THERE IS NO SEPARATION REQUIRED BETWEEN AN OCCUPANCY OF "A2" GROUP ASSEMBLY AND "B" FOOD PROCESSING IN THIS FACILITY. "B" IS AN ACCESSORY SPACE LESS THAN 10% OF "A2".

SECTION 707.5: FIRE BARRIERS - CONTINUITY:
FIRE BARRIERS SHALL EXTEND FROM THE TOP OF THE FOUNDATION BELOW TO THE UNDERSIDE OF THE ROOF SHEATHING. SUCH FIRE BARRIERS SHALL BE CONTINUOUS THROUGH CONCEALED SPACES, SUCH AS THOSE ABOVE SUSPENDED CEILING SYSTEMS. OPENING PROTECTION IS REQUIRED FOR ALL PENETRATIONS THROUGH THESE FIRE BARRIER ASSEMBLIES.

SECTION 707.5.1: FIRE BARRIERS - SUPPORTING CONSTRUCTION:
EXCEPTION A2: SUPPORTING CONSTRUCTION FOR 1-HOUR FIRE BARRIERS REQUIRED BY TABLE 509 IN BUILDING TYPE VB CONSTRUCTION IS NOT REQUIRED TO BE FIRE RESISTANCE RATED UNLESS REQUIRED BY OTHER SECTIONS OF THIS CODE. THERE IS NO REQUIREMENT TO FIRE RATE SUPPORTING STRUCTURE OF THESE FIRE BARRIERS.

SECTION 718: CONCEALED SPACES:
THERE IS NO COMBUSTIBLE MATERIALS IN THE CONCEALED SPACES OF THIS FACILITY. THIS FACILITY IS CONSTRUCTED OF CONCRETE MASONRY UNIT WALLS. CONCRETE MASONRY UNIT PARTITIONS ON THE INTERIOR.

TABLE 803.1.1: INTERIOR WALL AND CEILING FINISHES REQUIREMENT BY OCCUPANCY:
THIS IS A SPRINKLERED BUILDING WITH AN OCCUPANCY OF "B".
CORRIDORS = "C" CLASS FINISH
ROOMS = "C" CLASS FINISH

SECTION 903.2.1.2: GROUP A2 NFPA 13 SPRINKLER SYSTEM:
THE FIRE SPRINKLER SYSTEM INSTALLED IN THIS FACILITY WILL COMPLY WITH NFPA 13 AND THIS SECTION.

SECTION 904: PORTABLE FIRE EXTINGUISHERS:
PORTABLE FIRE EXTINGUISHERS WILL BE PROVIDED AND INSTALLED IN THIS FACILITY PER THIS SECTION OF THE CODE AS WELL AS IFC 2015. FIRE EXTINGUISHERS ARE TO NOT EXCEED 75' OF TRAVEL DISTANCE TO REACH AN EXTINGUISHER. EXTINGUISHERS ARE TO MEET 1-B-I-B CLASSIFICATION AND BE PROVIDED AND INSTALLED PER 1 EXTINGUISHER MINIMUM TO EVERY 1,500 SQUARE FEET OF FLOOR SPACE. 3 FIRE EXTINGUISHERS ARE PROVIDED IN THIS BUILDING.

SECTION 907 FIRE ALARM:
A FIRE ALARM SYSTEM WILL BE PROVIDED AS NOTED IN THE MEP SHEETS OF THIS DRAWING SET.

TABLE 1006.2.1: SPACES WITH ONE EXIT ACCESS DOORWAY:
IN "B" OCCUPANCIES AND WITH A MAXIMUM OCCUPANT LOAD OF 49, THE COMMON PATH OF TRAVEL FOR A FULLY SPRINKLERED BUILDING IS 75'. THE LONGEST COMMON PATH OF TRAVEL DOES NOT EXCEED THIS. THERE ARE NO AREAS THAT REQUIRE TWO MEANS OF EGRESS OUT.

TABLE 1006.3.1: MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STOREY:
THE TOTAL NUMBER OF OCCUPANTS IN THIS FACILITY IS CALCULATED AT 140 AND THUS IT REQUIRES A MINIMUM OF TWO EXITS. THERE ARE TWO MEANS OF EGRESS EXITS PROVIDED IN THIS FACILITY.

SECTION 1009 ACCESSIBLE MEANS OF EGRESS:
THIS FACILITY HAS MULTIPLE MEANS OF EGRESS AND BOTH OF THEM COMPLY AS ACCESSIBLE MEANS OF EGRESS.

TABLE 1017.1: EXIT ACCESS TRAVEL DISTANCE:
IN A FULLY SPRINKLERED BUILDING THE EXIT ACCESS TRAVEL DISTANCE IS 250 FEET. THE FURTHEST EXIT ACCESS TRAVEL DISTANCE IN THIS BUILDING DOES NOT EXCEED THIS.

SECTION 1020.4 DEAD ENDS:
IN GROUP ASSEMBLY & BUSINESS FACILITIES THAT ARE EQUIPPED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM, THE DEAD ENDS MUST NOT EXCEED 20 FEET. THERE ARE NO DEAD END CORRIDORS IN THIS FACILITY.

DRAWING INDEX:

SHEET NUMBER	SHEET TITLE
ARCHITECTURAL	
COVER	COVER SHEET, OVERALL SITE PLAN, INDEX OF DRAWINGS, CODE REVIEW
A1.01	SITE PLANS
A2.01-A	FLOOR PLAN, B. SCHEDULES
A2.01-B	REFLECTED CEILING PLAN & DOORS/DETAILS
A2.01-C	EXTERIOR & INTERIOR ELEVATIONS
A2.01-D	BUILDING SECTIONS, DETAILS & SHADE STRUCTURE PLAN
STRUCTURAL SHEETS	
S1.01-A	FOUNDATION & ROOF FRAMING PLAN
S2.01-A	FOUNDATION DETAILS
S3.01-A	CONCRETE MASONRY UNIT DETAILS
MEP SHEETS	
MEP-1.0	MECHANICAL, PLUMBING, ELECTRICAL, LIGHTING PLAN
MEP-1.0	MECHANICAL/PLUMBING COVER SHEET
MEP-1.1	MECHANICAL/PLUMBING COVER SHEET & RISERS
EL-1.1	ELECTRICAL/LIGHTING COVER SHEET
MEP-1.1	MECHANICAL SPECIFICATIONS
P-1.1	PLUMBING SPECIFICATIONS
E-1.1	ELECTRICAL SPECIFICATIONS
E-2.1	ELECTRICAL SPECIFICATIONS
FP-1.1	FIRE PROTECTION PLAN

PROJECT TEAM

kinney franke architects, aia

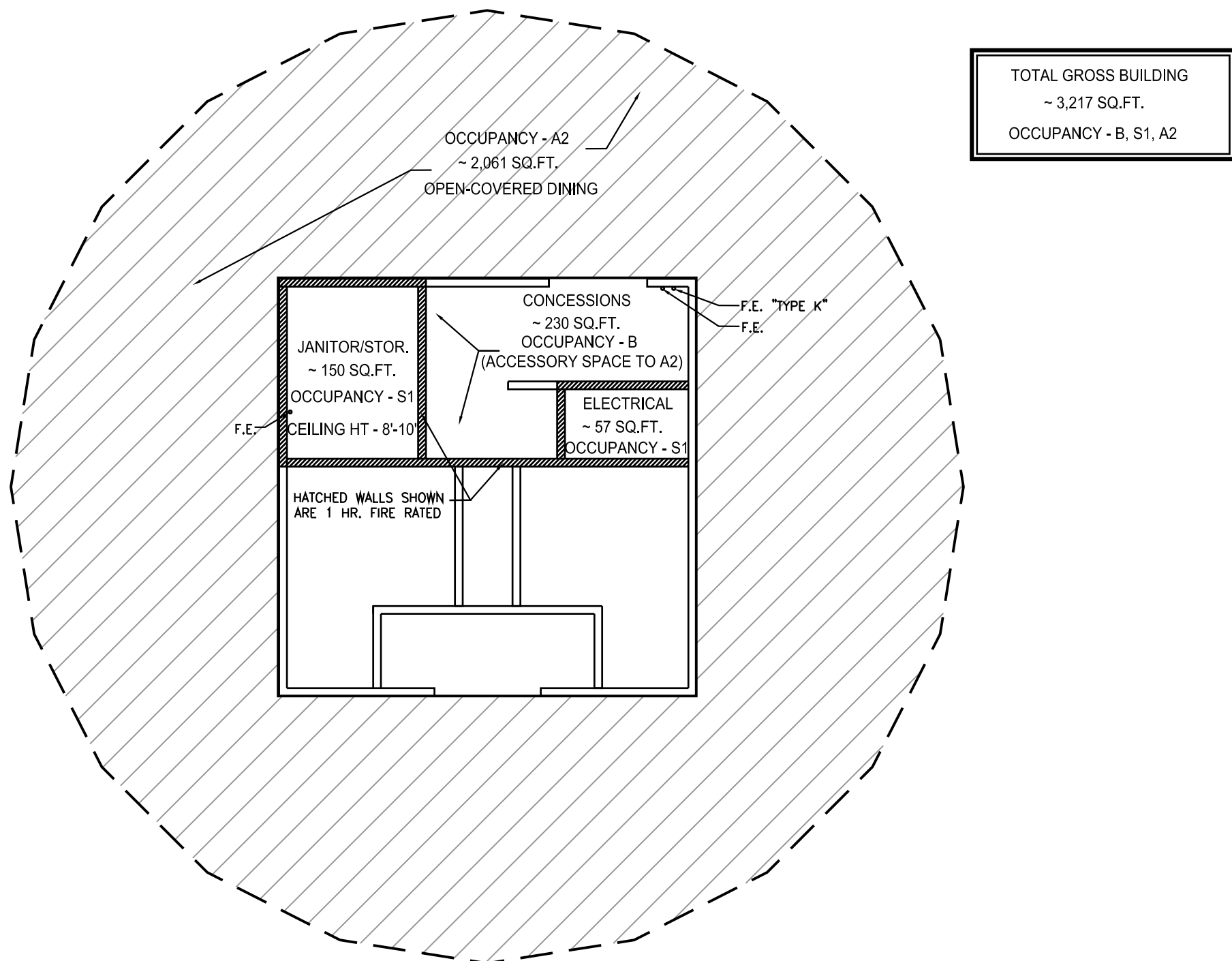
37b west concho avenue san angelo, texas 76903 325-653-2900

skg engineering - civil & structural consulting engineers

706 s. abe street san angelo, texas 76903 325-655-1288

power systems, inc. - mep consulting engineer

p.o. box 2863 san angelo, texas 76902 325-659-2235



TOTAL GROSS BUILDING
~ 3,217 SQ. FT.
OCCUPANCY - B, S1, A2

FIRE PROTECTION PLAN

SCALE: 3/32" = 1'-0"

Revised

CIVIL ENGINEER
SKG ENGINEERING
• POWER SYSTEMS
• MECHANICAL ENGINEER
• STRUCTURAL ENGINEER
SKG ENGINEERING

kinney • franke
ARCHITECTS AIA
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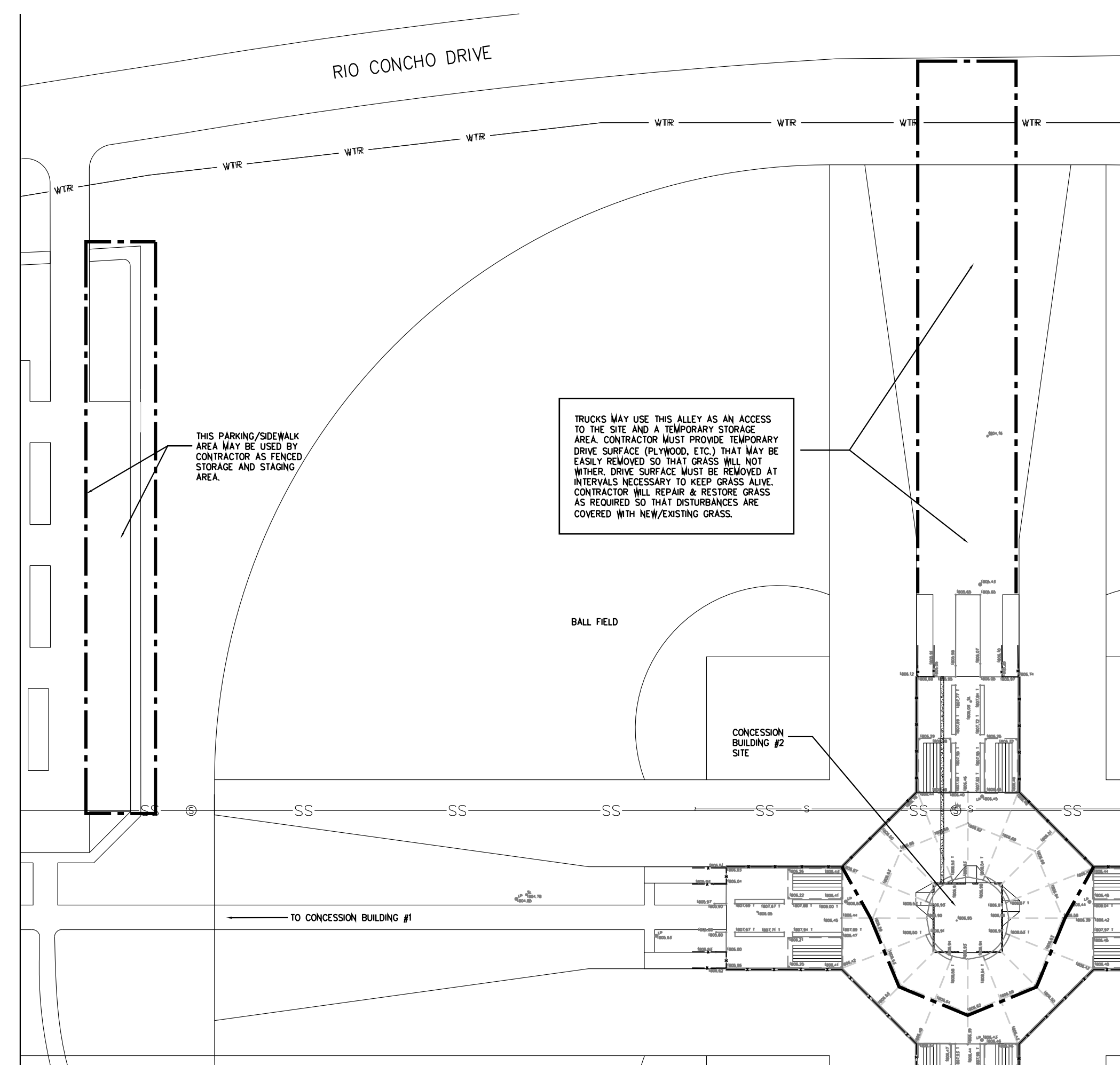


RIO CONCHO COMMUNITY CITY PARK
TEXAS BANK SPORTS COMPLEX
CONCESSION BUILDING #2
City of San Angelo, Texas

Project No. 250-02-0516

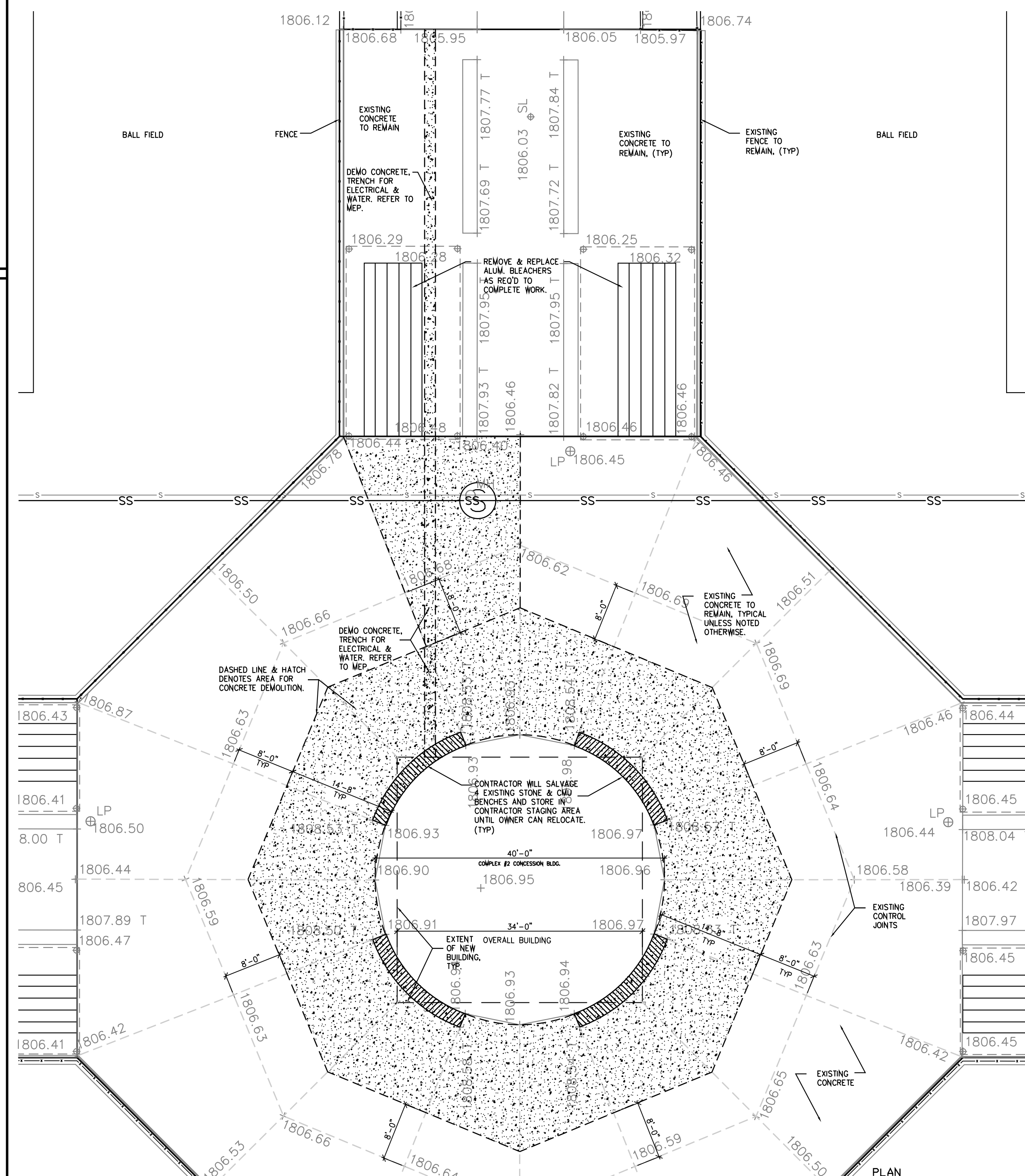
Date September 14, 2016

Sheet Number
A0.0



STAGING AREA SITE PLAN - COMPLEX # 2

SCALE: 1" = 50'-0"

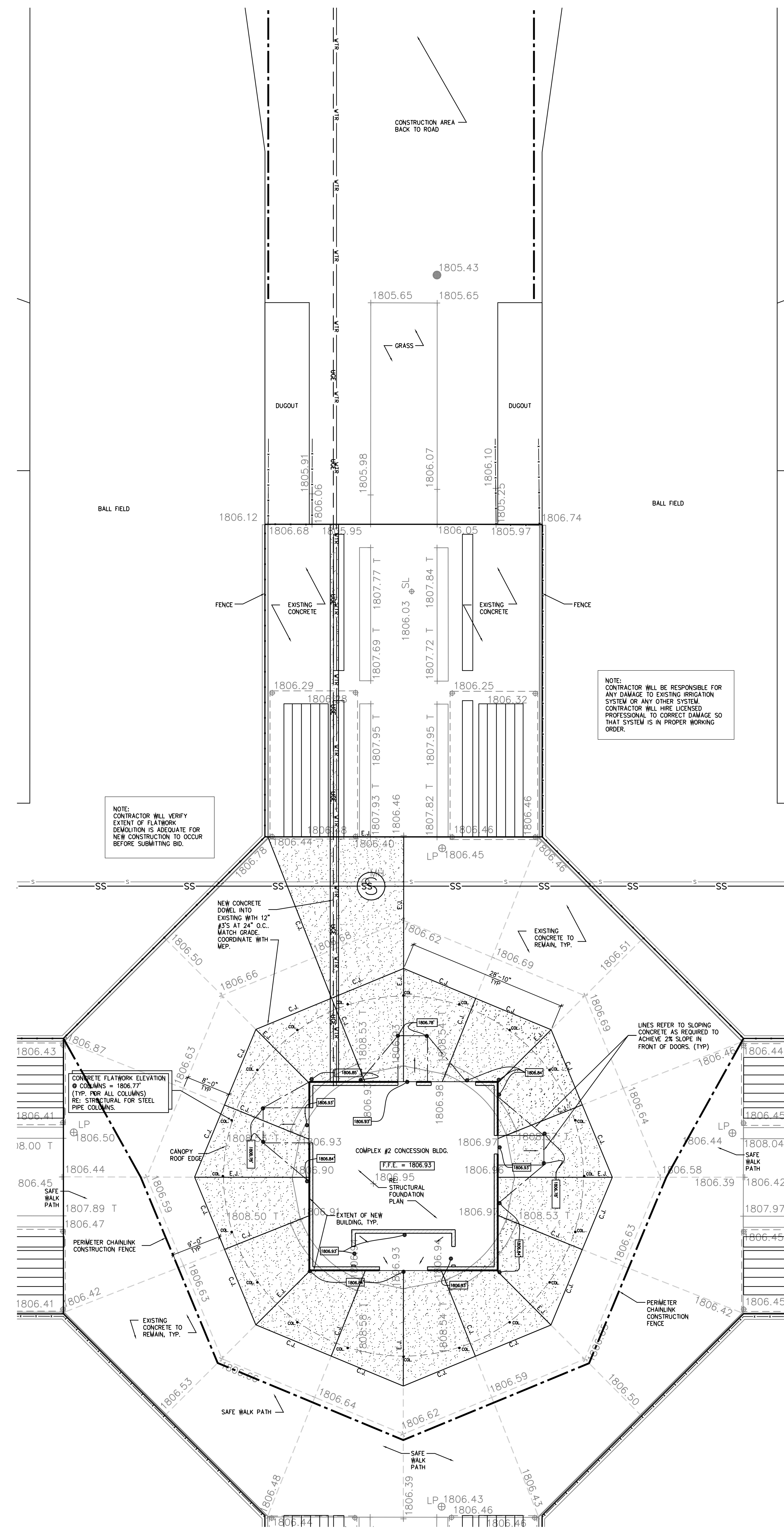


DEMOLITION SITE PLAN - COMPLEX # 2

SCALE: 3/32" = 1'-0"



NOTE:
RECREATION ACTIVITIES WILL BE OCCURRING DURING THE CONSTRUCTION OF CONCESSION BUILDING #2. CONTRACTOR WILL PROVIDE EASE OF ACCESS FOR PEDESTRIANS FROM ONE FIELD COMPLEX TO ANOTHER ALONG MAIN EAST/WEST SIDEWALK CORRIDOR. CONTRACTOR WILL USE ALL SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE PLACE FOR FIELD COMPLEX USERS.



SITE PLAN - COMPLEX # 2

SCALE: $3/32" = 1'-0"$



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• • • • •

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09/14/16
FOR PERMIT
BIDDING & CONSTRUCTION

TEXAS BANK SPORTS COMPLEX
CONCESSION BUILDING #2
City of San Angelo, Texas

Project No.	250-02-0516
-------------	-------------

Date September 14, 2016

Sheet Number

A1.01

ROOM NO.	DESCRIPTION	FLOOR	BASE	WALLS				CEILING	CLG. HT.	REMARKS
				N	E	S	W			
100	CONCESSIONS	10	20	30	30	30	30	41	8'-10"	
101	MEN'S RESTROOM	10	20	30	30	30	30	41	8'-10"	
102	RESTROOM VESTIBULE	10	20	30	30	30	30	41	8'-10"	
103	LADY'S RESTROOM	10	20	30	30	30	30	41	8'-10"	
104	GENERAL STORAGE / JANITOR	10	20	31	31	31	31	41	8'-10"	CERAMIC TILE 4' A.F.F. AT MOP SINK
105	ELECTICAL	10	20	30	30	30	30	41	8'-10"	
106	PLUMBING CHASE	11	20	30	30	30	30	40	—	PLUMBING CHASE

FLOOR		BASE		WALL		CEILING	
10	SEALED CONCRETE (NON-SLIP)	20	NO. BASE	30	PAINTED CMU	40	EXPOSED STRUCTURE
11	UNFINISHED CONCRETE	21		31	EXPOSED UNFINISHED CMU	41	PRE FINISHED METAL CEILING
12		22		32	CERAMIC TILE 4" A.F.F.	42	
13				33		43	
14				34		44	
				35			

[illegible]

NOTE: PROVIDE SHADE FABRIC AS SHOWN AT HATCHED AREAS.
COMPLEX #1 & #3 ARE EXISTING BUILDINGS. STRUCTURE FOR FABRIC IS EXISTING. CONTRACTOR IS ONLY RESPONSIBLE FOR PROVIDING AND INSTALLING FABRIC PER SPECIFICATION.
COMPLEX #2 IS NEW CONSTRUCTION.

SUN FABRIC WITH REINFORCED EDGES AT ALL CABLES (TYP. AS SHOWN)

BUILDING BELOW

EDGE OF SINGLE PLY MEMBRANE ROOF

1/2" STAINLESS STEEL CABLE SYSTEM - ATTACH TO COLUMNS AT PERIMETER AND COVER STEEL PIPE & TENSION RING. PROVIDE ADJUSTMENT TURNBUCKLE AT LOWER END. REFER TO US/2.0-H

PTD. METAL COLUMN WITH LIGHT FIXTURE AT TOP. TYP. OF 20.

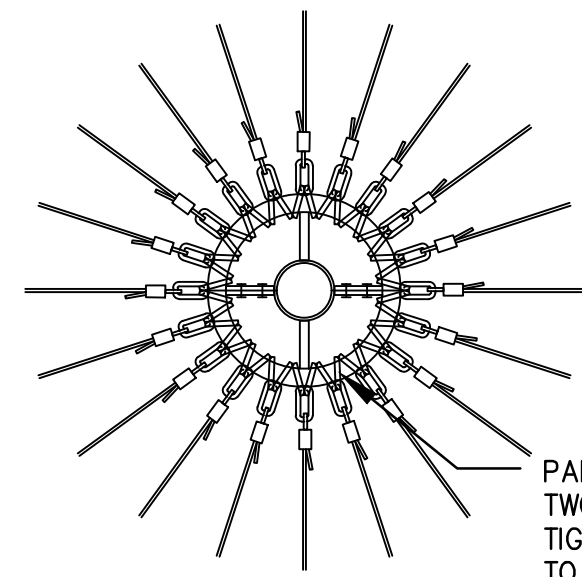
CONCESSION BLDG. 1 & 2

SCALE: 3/32" = 1'-0"

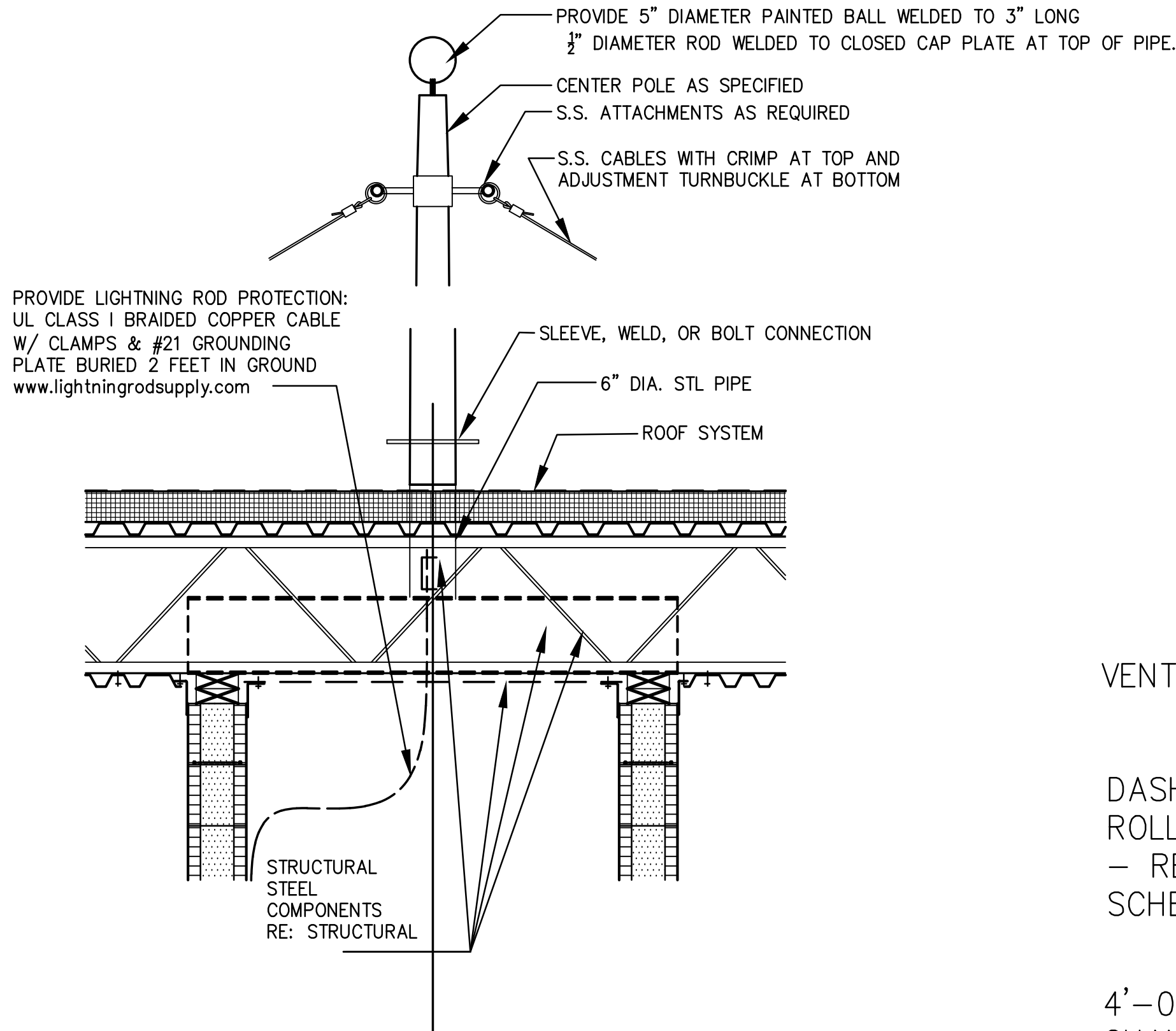
CONCESSION BLDG. 3

SCALE: 3/32" = 1'-0"



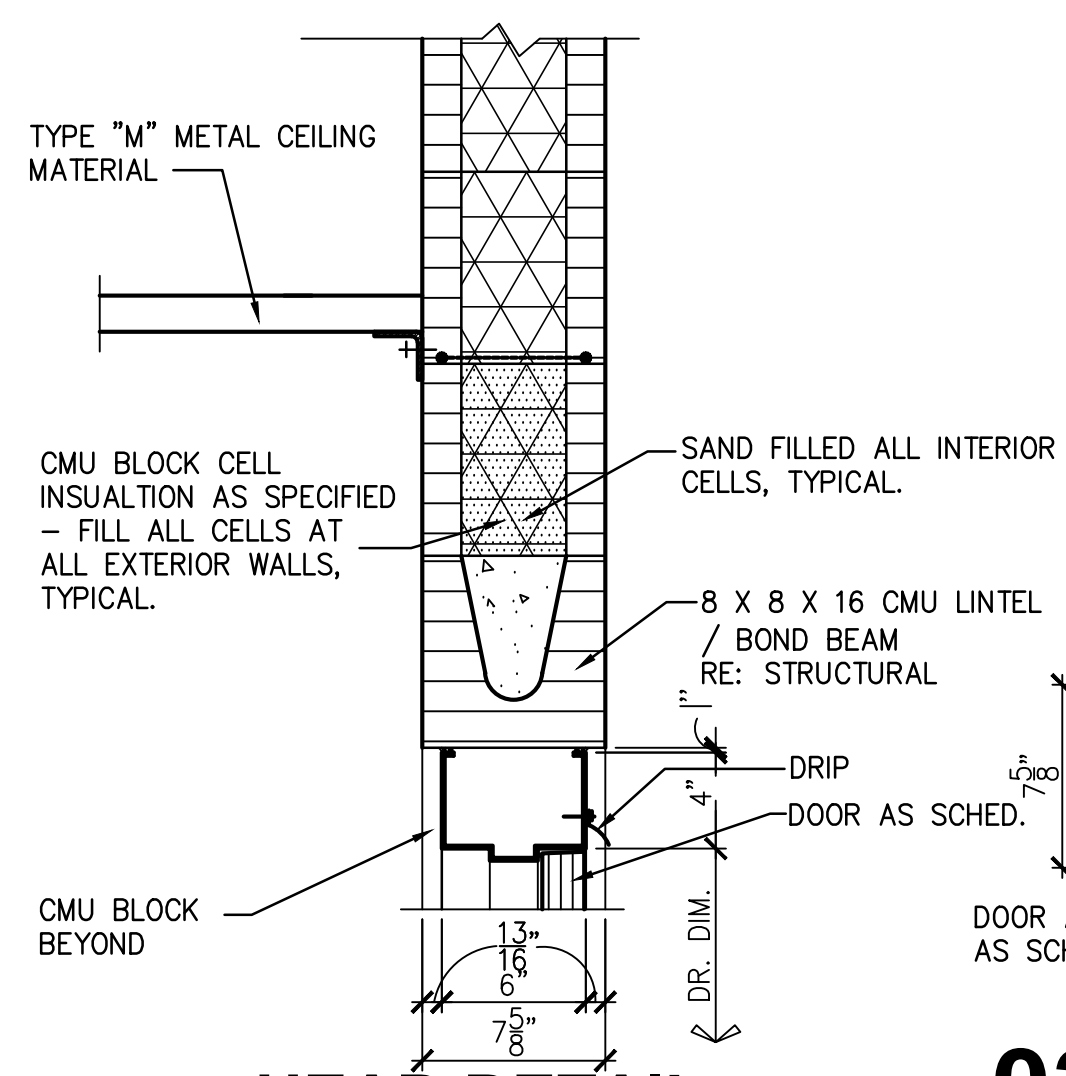


PLAN AT TENSION RING



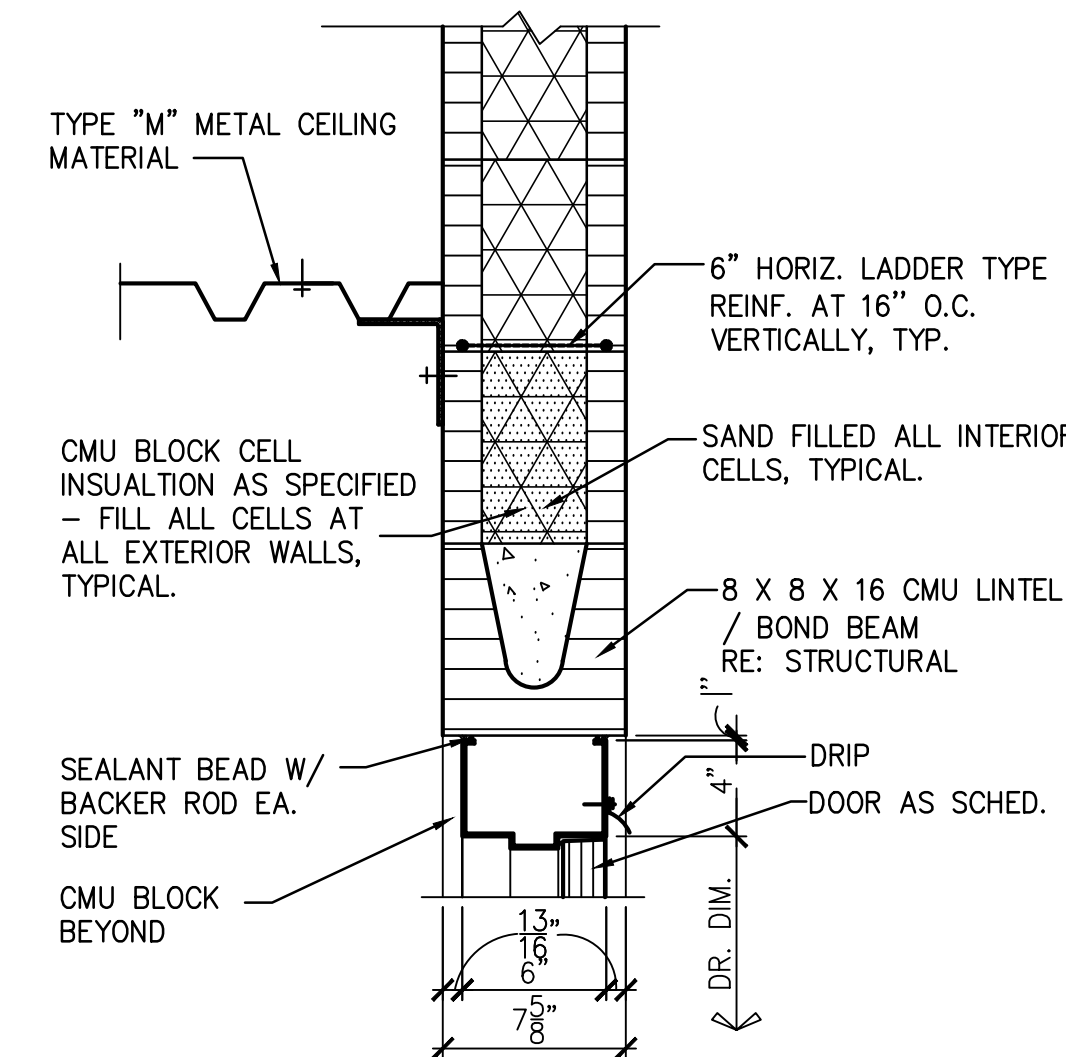
08 CENTER POLE SECTION & DETAIL

SCALE: 3/4" = 1'-0"



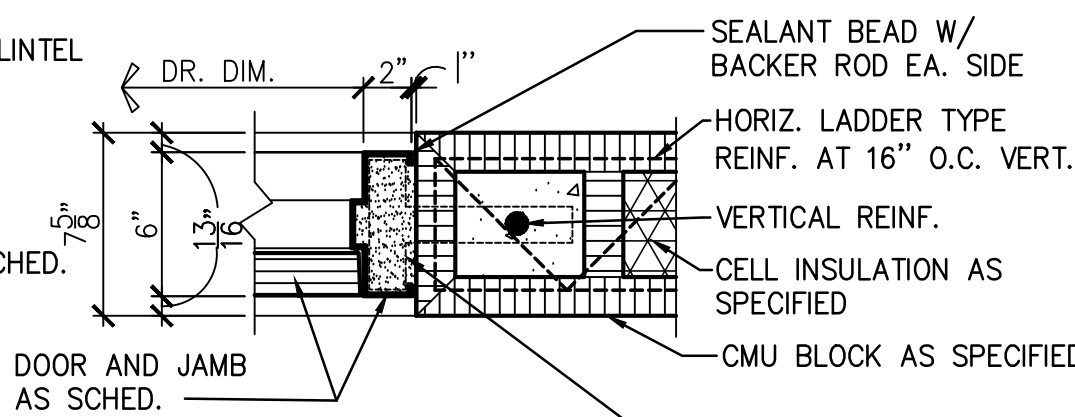
01 HEAD DETAIL

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



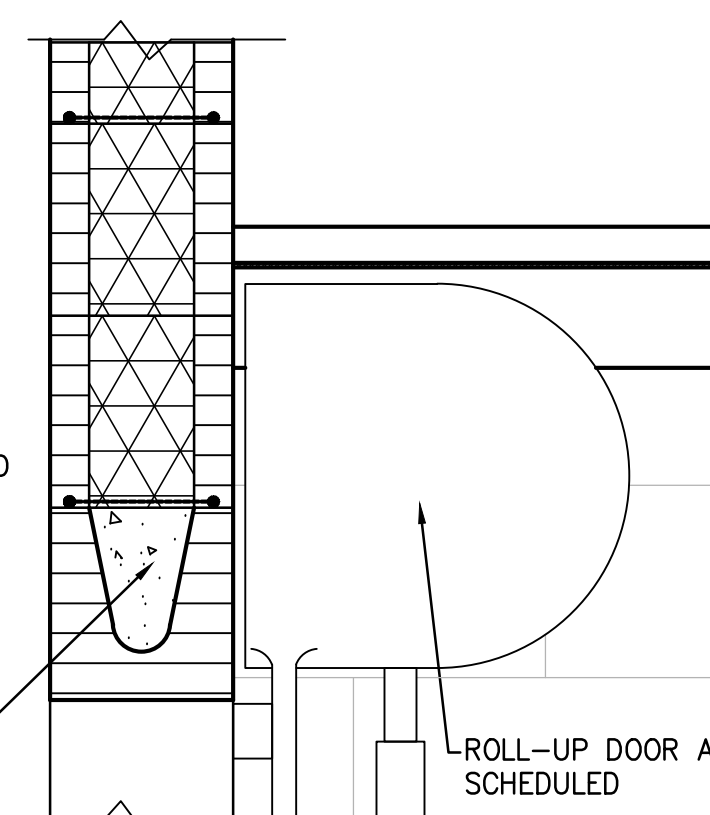
03 HEAD DETAIL

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



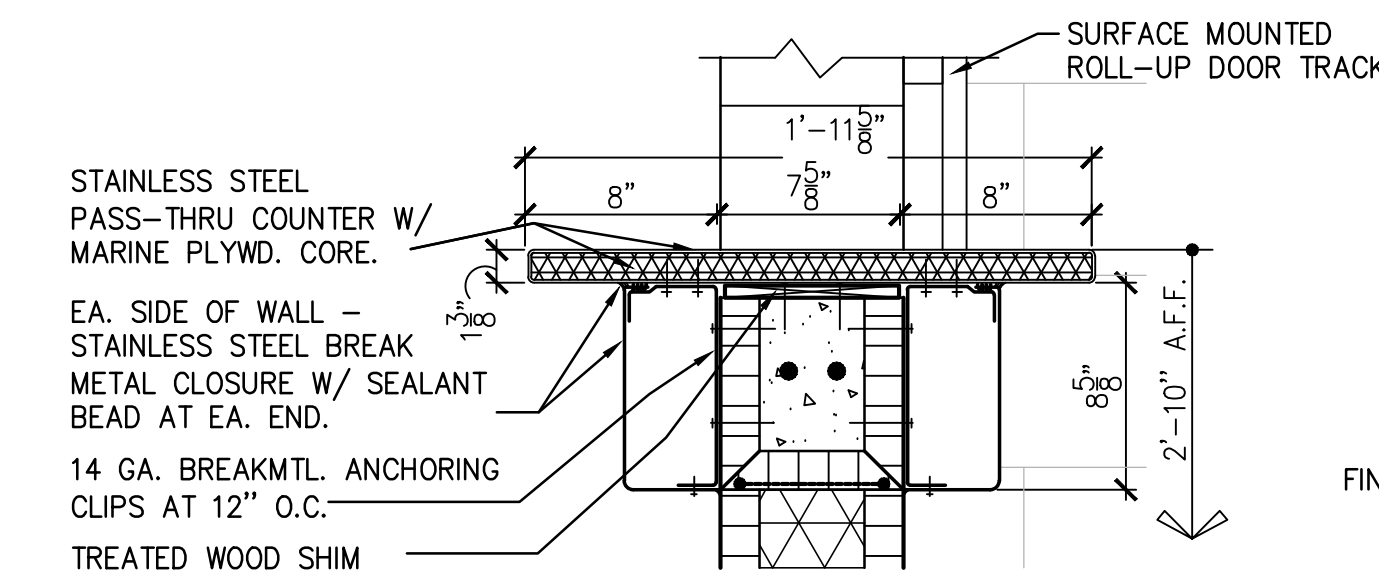
02 JAMB DETAIL

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



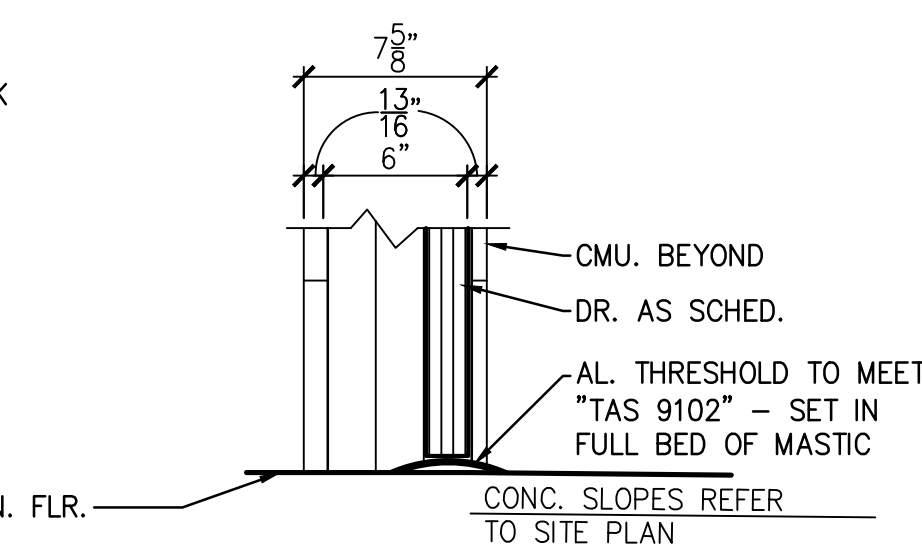
05 HEAD DETAIL

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



06 SILL DETAIL

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



07 SILL DETAIL

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

09 SECTION DETAIL AT FASCIA AND PERIMETER COLUMNS

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

PROVIDE TRIM AS REQUIRED

DASHED LINE DENOTES WOOD JOIST CENTERLINES. DOUBLE CENTERLINES DENOTE WHERE THERE ARE 2 WOOD JOISTS TOGETHER.

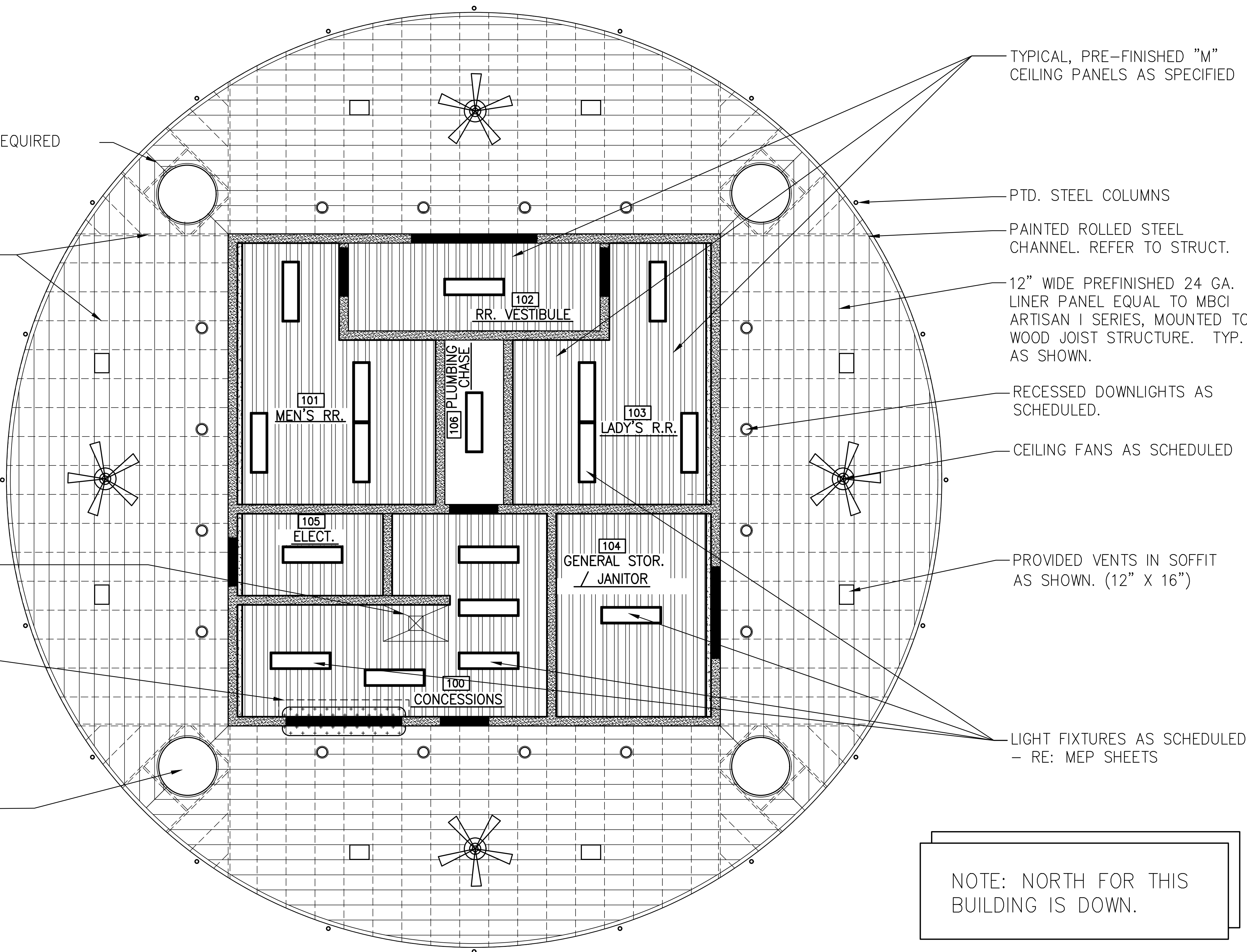
VENT HOOD ABOVE

DASHED LINE DENOTES THE ROLL-UP DOOR SHROUD BELOW - REFER TO THE DOOR SCHEDULE.

4'-0" DIAMETER ROLLED STL. CHANNEL, TYPICAL - NOTE CHANNEL IS THE SAME AS THE BUILDING PERIMETER CHANNEL. SEE 09/A2.01-B FOR SIMILAR FASCIA CLOSURE OF CIRCLE OPENING.

B REFLECTED CEILING PLAN - COMPLEX # 2

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



TYPICAL, PRE-FINISHED "M" CEILING PANELS AS SPECIFIED

PTD. STEEL COLUMNS

PAINTED ROLLED STEEL CHANNEL. REFER TO STRUCT.

12" WIDE PREFINISHED 24 GA. LINER PANEL EQUAL TO MBCI ARTISAN I SERIES, MOUNTED TO WOOD JOIST STRUCTURE. TYP. AS SHOWN.

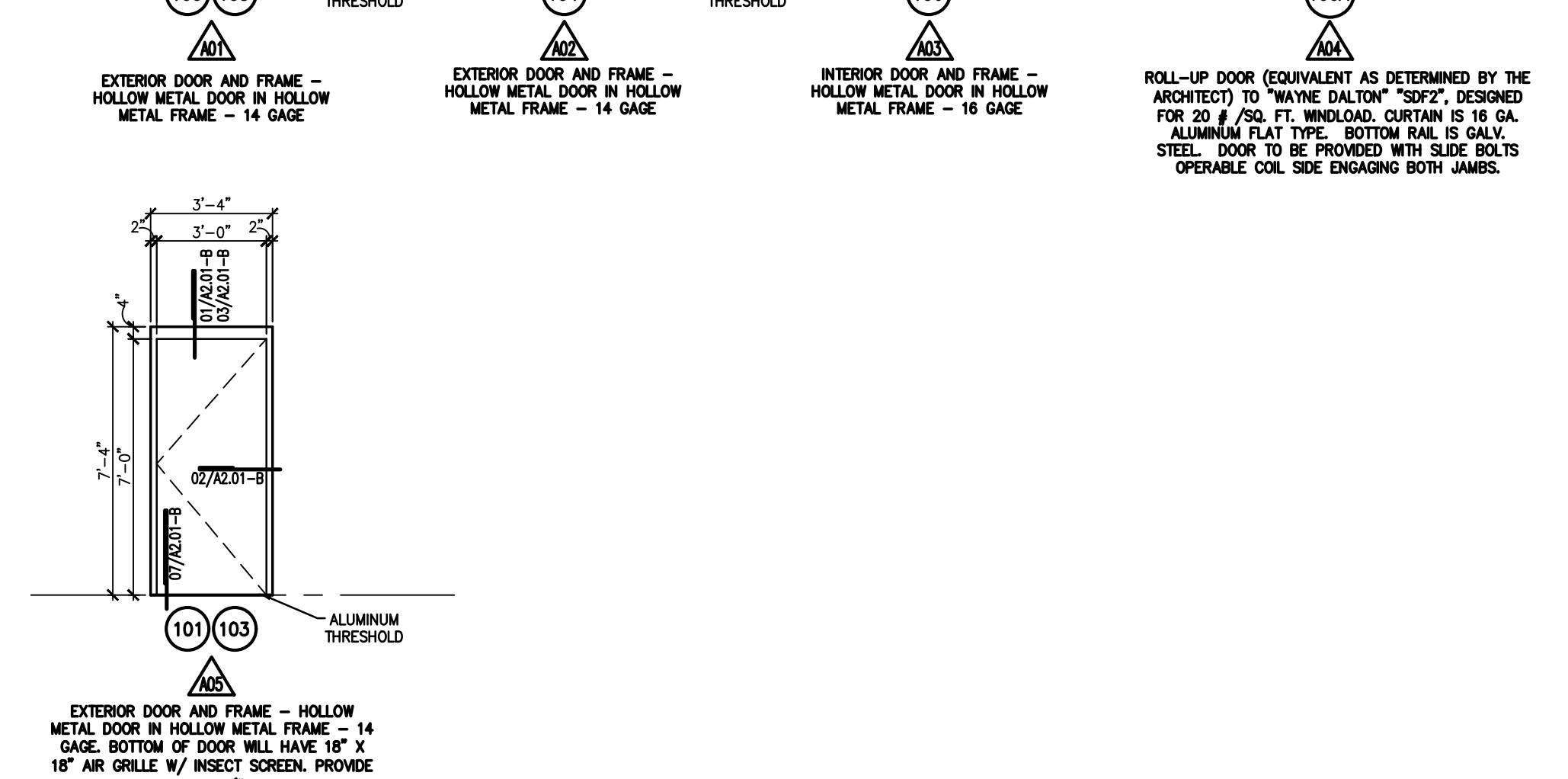
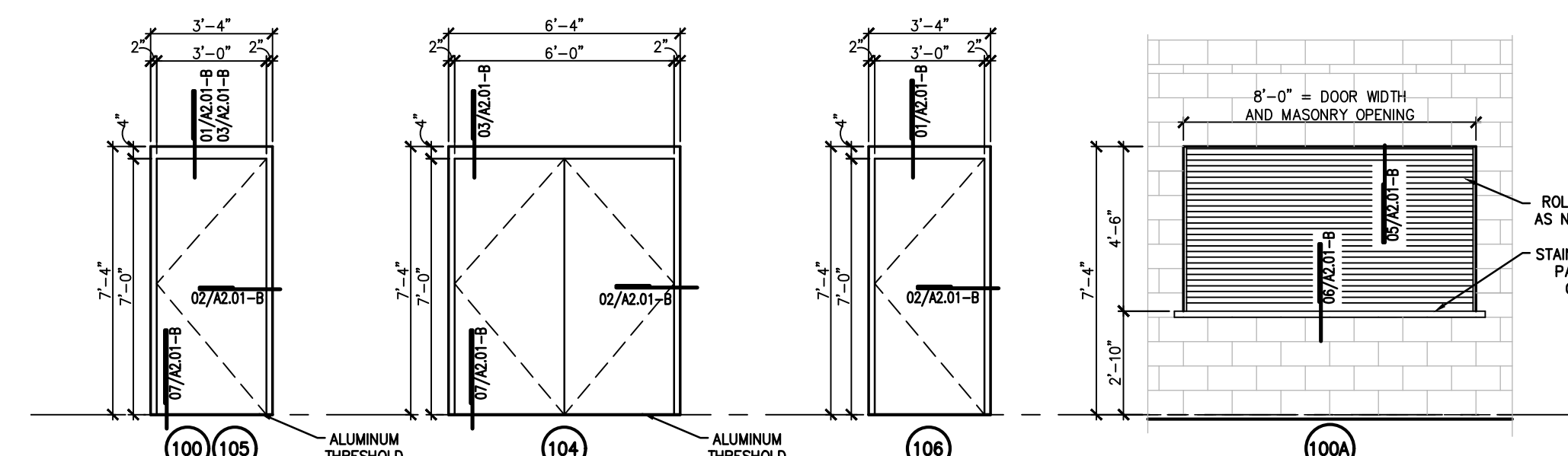
RECESSED DOWNLIGHTS AS SCHEDULED.

CEILING FANS AS SCHEDULED

PROVIDED VENTS IN SOFFIT AS SHOWN. (12" X 16")

LIGHT FIXTURES AS SCHEDULED - RE: MEP SHEETS

NOTE: NORTH FOR THIS BUILDING IS DOWN.



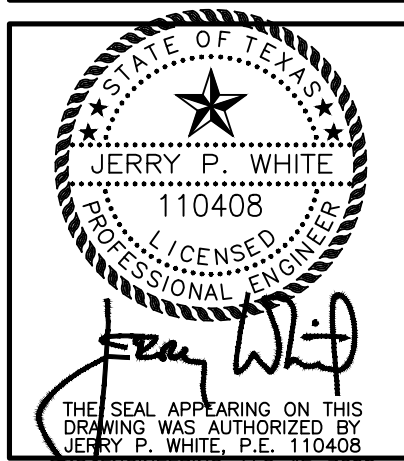
C DOOR AND FRAME ELEVATIONS

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

Revised

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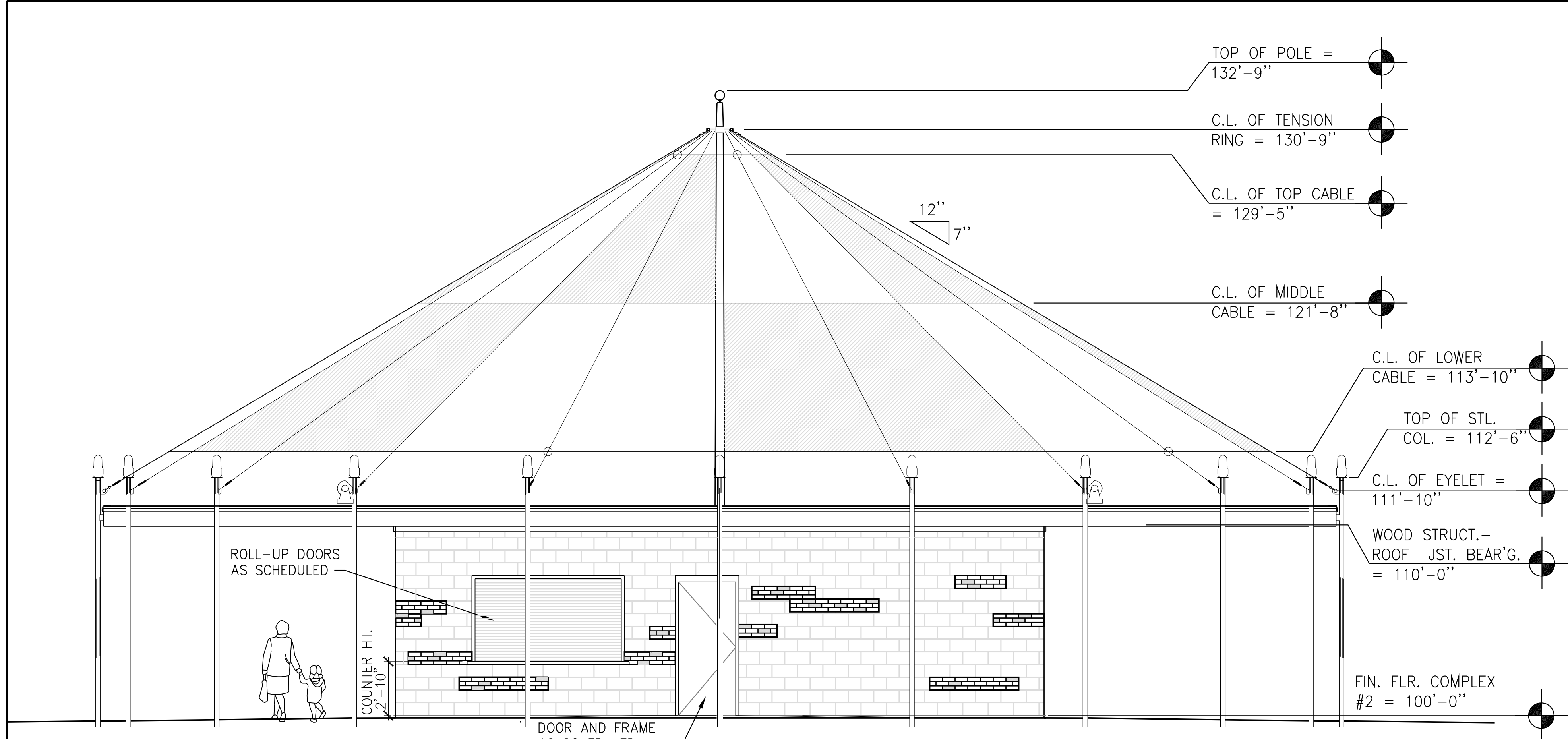
RIO CONCHO COMMUNITY CITY PARK
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CONCESSION BUILDING #2
City of San Angelo, Texas

Project No. 250-02-0516

Date September 14, 2016

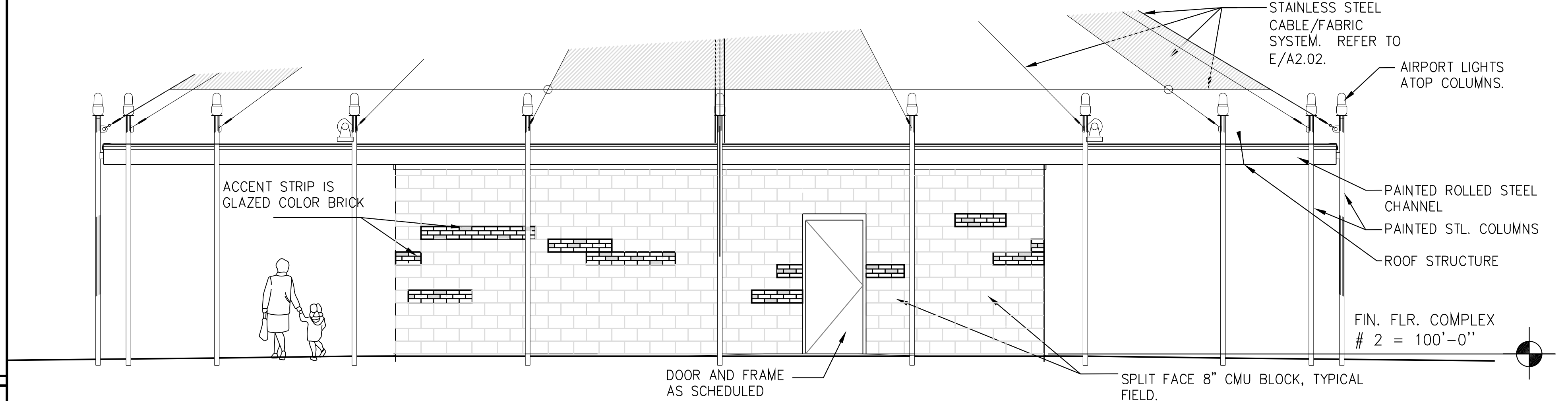
Sheet Number

A2.01-B



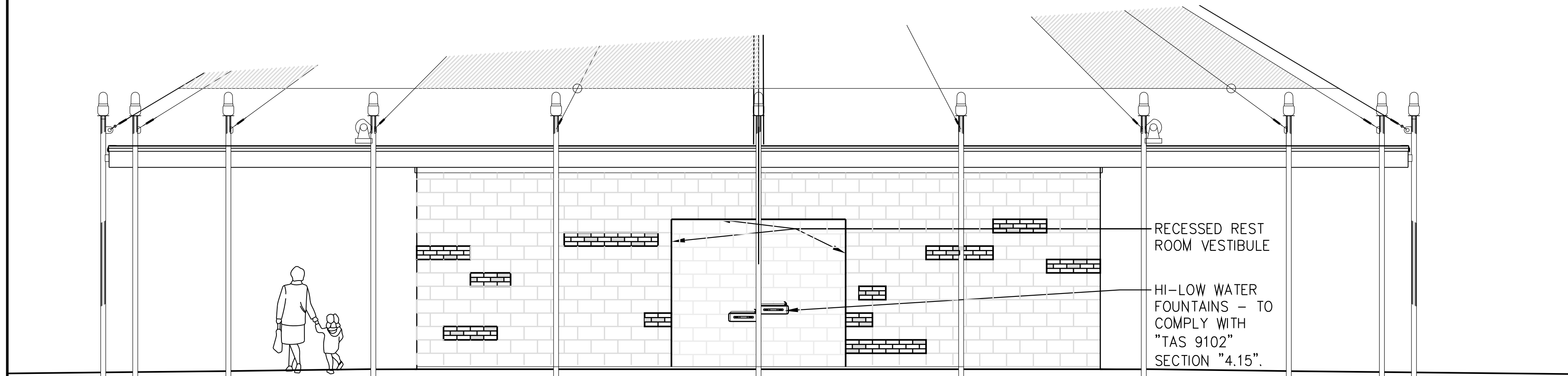
A NORTH EXTERIOR ELEVATION - COMPLEX #2

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



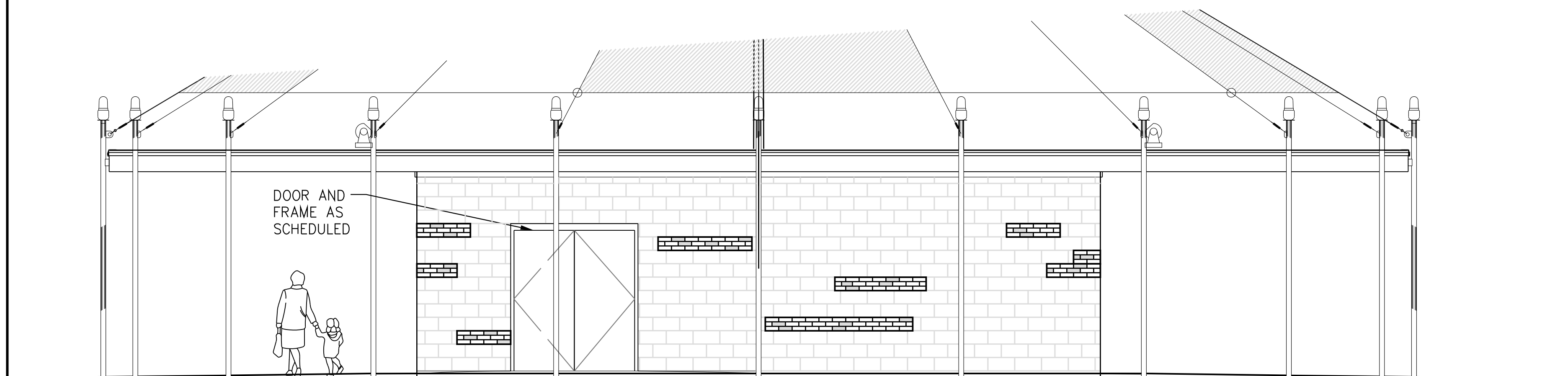
B WEST EXTERIOR ELEVATION - COMPLEX #2

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



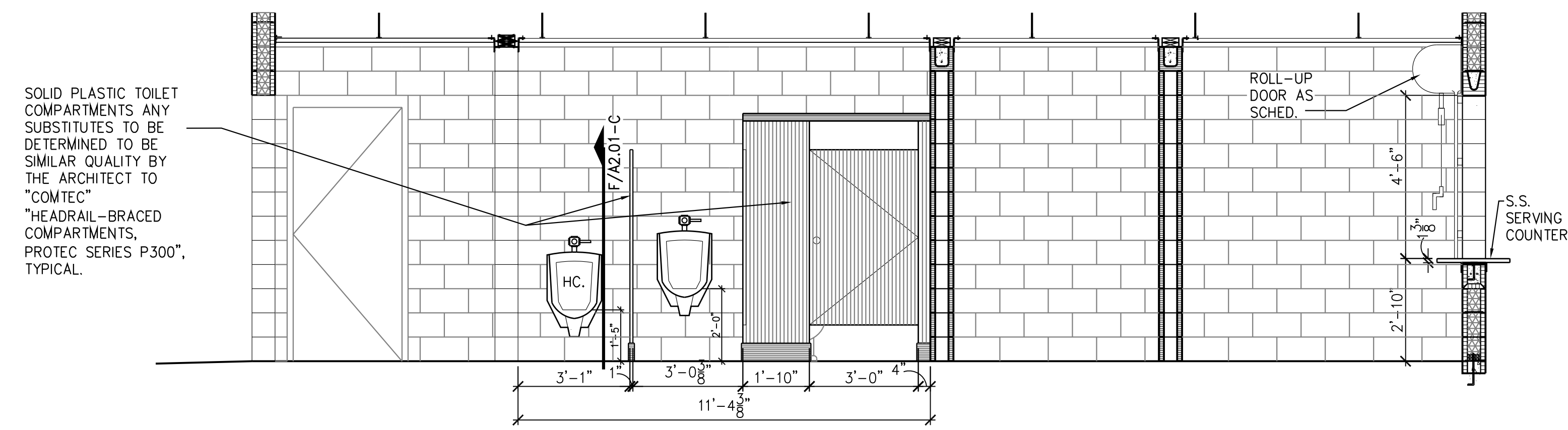
C SOUTH EXTERIOR ELEVATION - COMPLEX #2

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



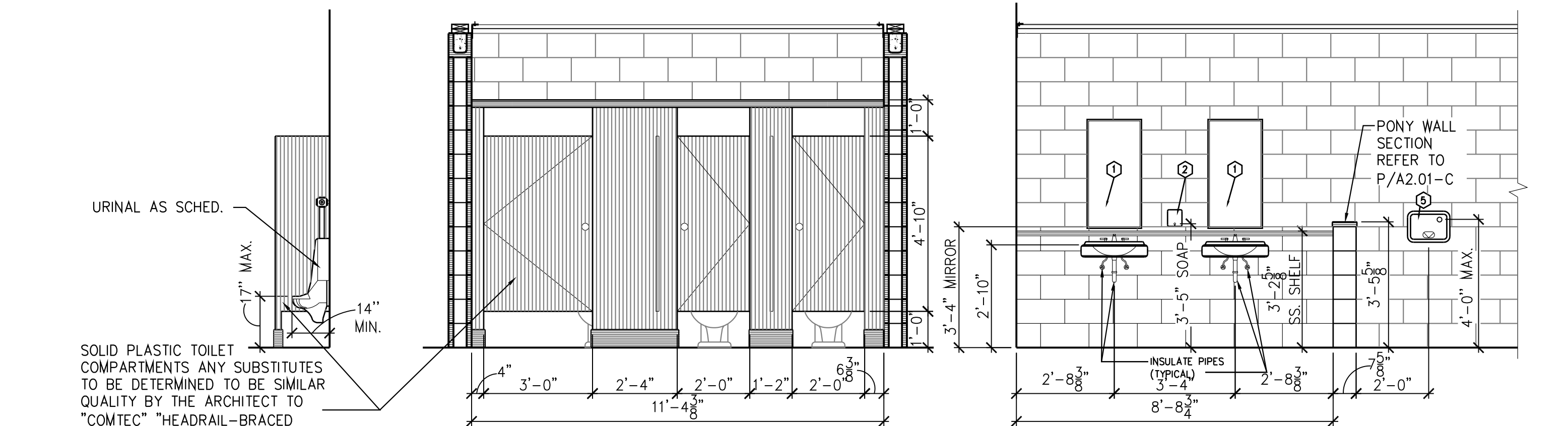
D EAST EXTERIOR ELEVATION - COMPLEX #2

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



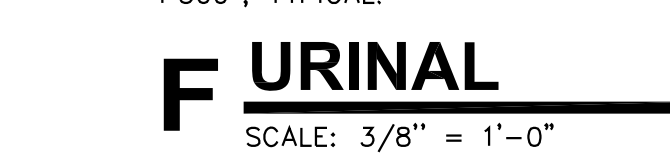
E INTERIOR ELEVATION AND PARTIAL BLDG. SECTION

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



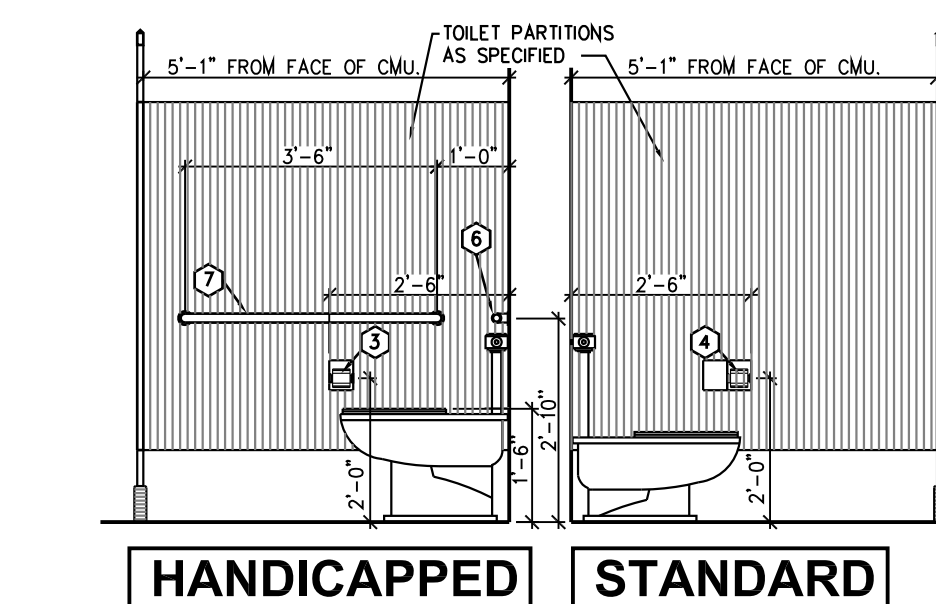
G WOMEN'S RESTROOM

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



F URINAL

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



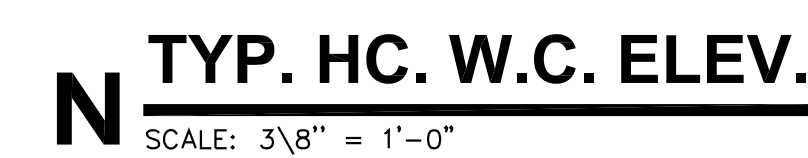
HANDICAPPED

STANDARD



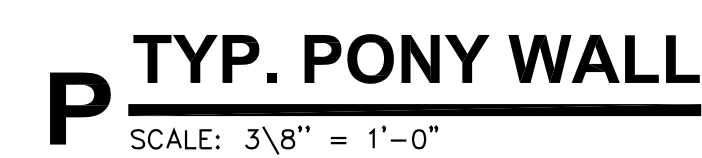
M TYP. TOILET STALL SIDE ELEV'S.

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



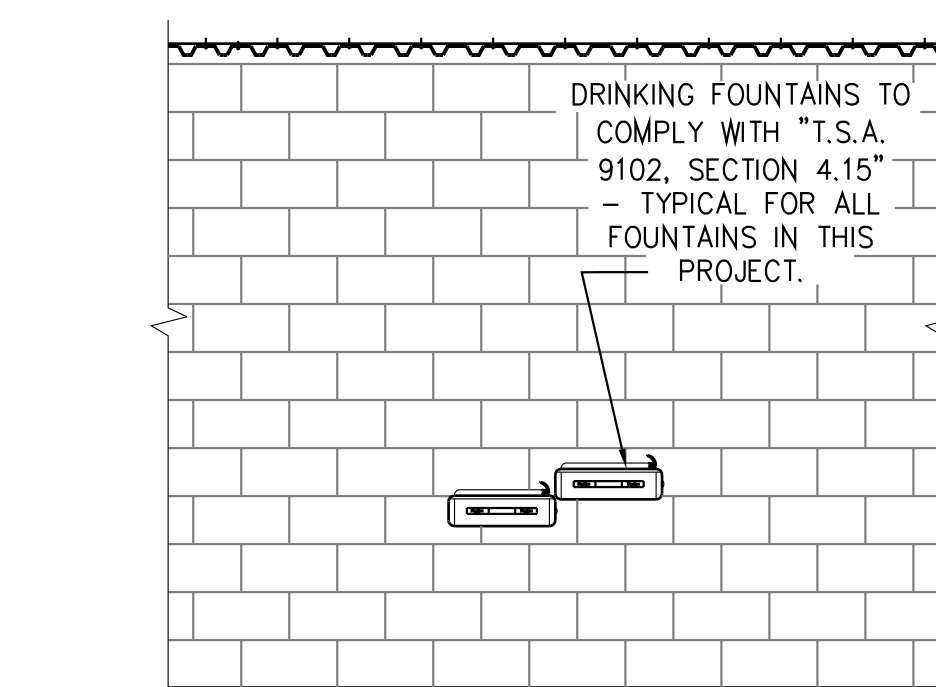
N TYP. H.C. W.C. ELEV.

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



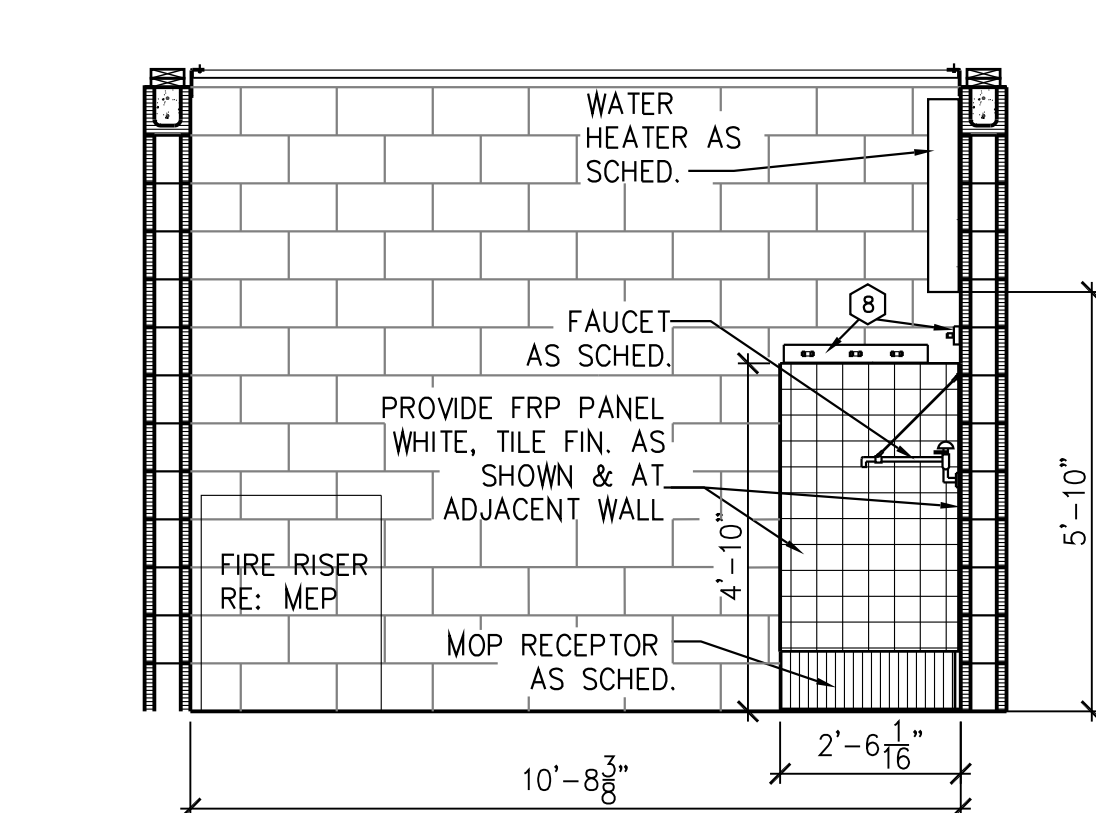
P TYP. PONY WALL

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



L WATER FOUNTAINS

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



J JANITOR - MOP SINK

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

ACCESSORIES SCHEDULE :					
ITEM NO.	ITEM	DESCRIPTION	QUANTITY	MFG. HT. A.F.F.	REMARKS
1	MIRROR	BOBRICK # B-165 1836	REFER TO PLANS & ELEV.	36" TO BOTTOM EDGE A.F.F.	GLAZE WITH HIGH POLISHED S.S. REFLECTIVE SURFACE
2	SOAP DISPENSER	BOBRICK # B-4112	REFER TO PLANS & ELEV.	41" TO TOP OF DISP.	MOUNTING HT. AS SCHEDULED UNLESS NOTED ON ELEVATIONS
3	TOILET TISSUE (SURFACE MOUNT)	BOBRICK # B-2688	REFER TO PLANS & ELEV.	19" MIN. TO Q. OF DISP.	MOUNTING HT. AS SCHEDULED UNLESS NOTED ON ELEVATIONS
4	TOILET TISSUE (DBL. IN PARTITION)	BOBRICK # B-386	REFER TO PLANS & ELEV.	19" MIN. TO Q. OF DISP.	MOUNTING HT. AS SCHEDULED UNLESS NOTED ON ELEVATIONS
5	ELECTRIC HAND DRYER	XLERATOR XL-C-XLERATOR EXCEL DRYER	REFER TO PLANS & ELEV.	48" MAX. TO ACTUATOR LEVER	MOUNTING HT. AS SCHEDULED UNLESS NOTED ON ELEVATIONS
6	3'-0" GRAB BAR	BOBRICK # B-6206 X 36	REFER TO PLANS & ELEV.	34" TO Q. OF BAR	MOUNTING HT. AS SCHEDULED UNLESS NOTED ON ELEVATIONS
7	3'-6" GRAB BAR	BOBRICK # B-6206 X 42	REFER TO PLANS & ELEV.	34" TO Q. OF BAR	MOUNTING HT. AS SCHEDULED UNLESS NOTED ON ELEVATIONS
8	MOP HOLDER W/ SHELF	BOBRICK # B-224 X 30	REFER TO PLANS & ELEV.	REFER TO ELEVATIONS	

Revised

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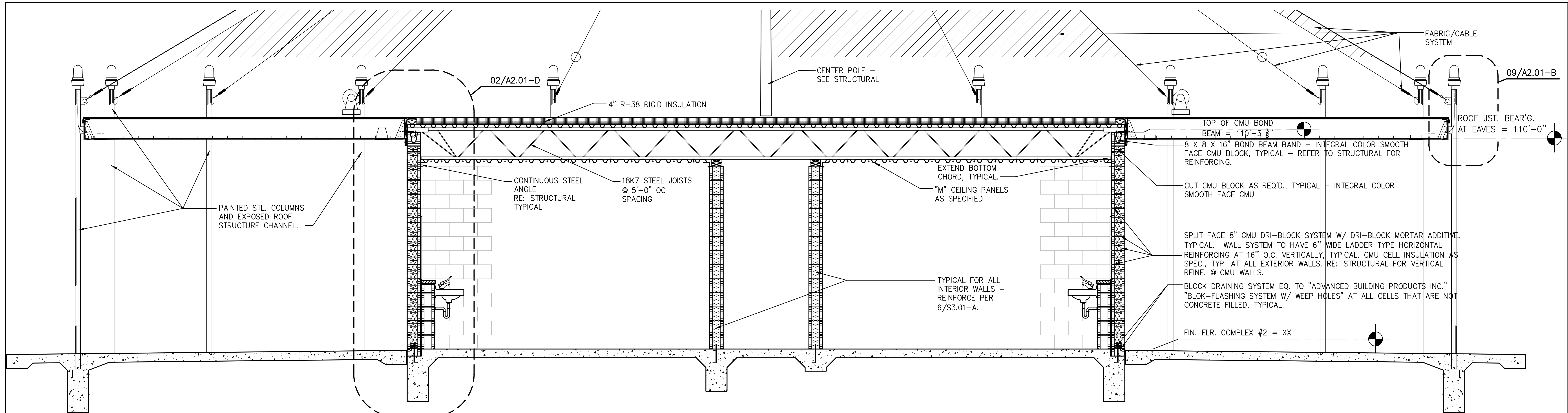
RIO CONCHO COMMUNITY CITY PARK
TEXAS BANK SPORTS COMPLEX
CONCESSION BUILDING #2
City of San Angelo, Texas

Project No. 250-02-0516

Date September 14, 2016

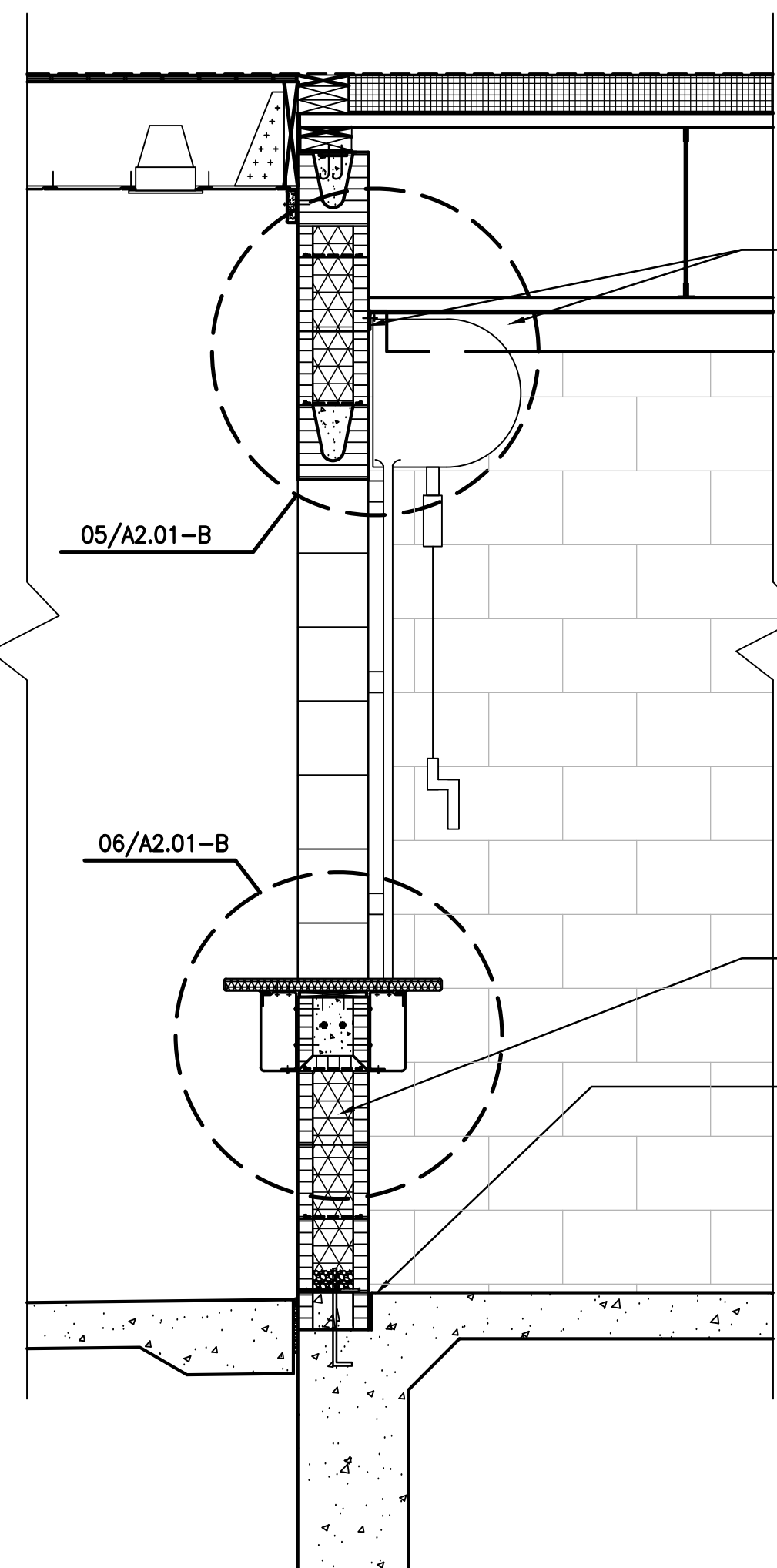
Sheet Number

A2.01-C



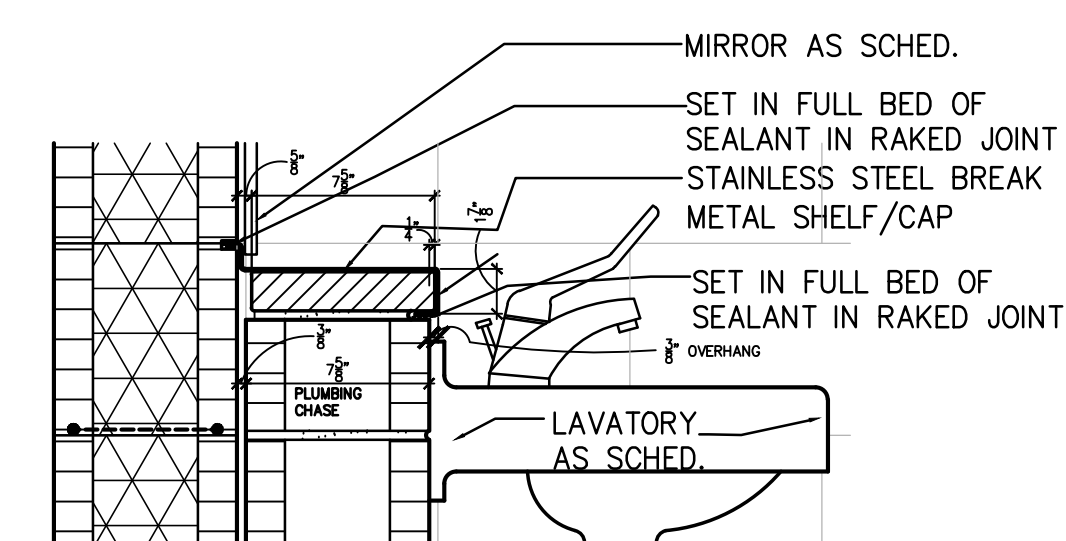
A CROSS BUILDING SECTION - COMPLEX # 2

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



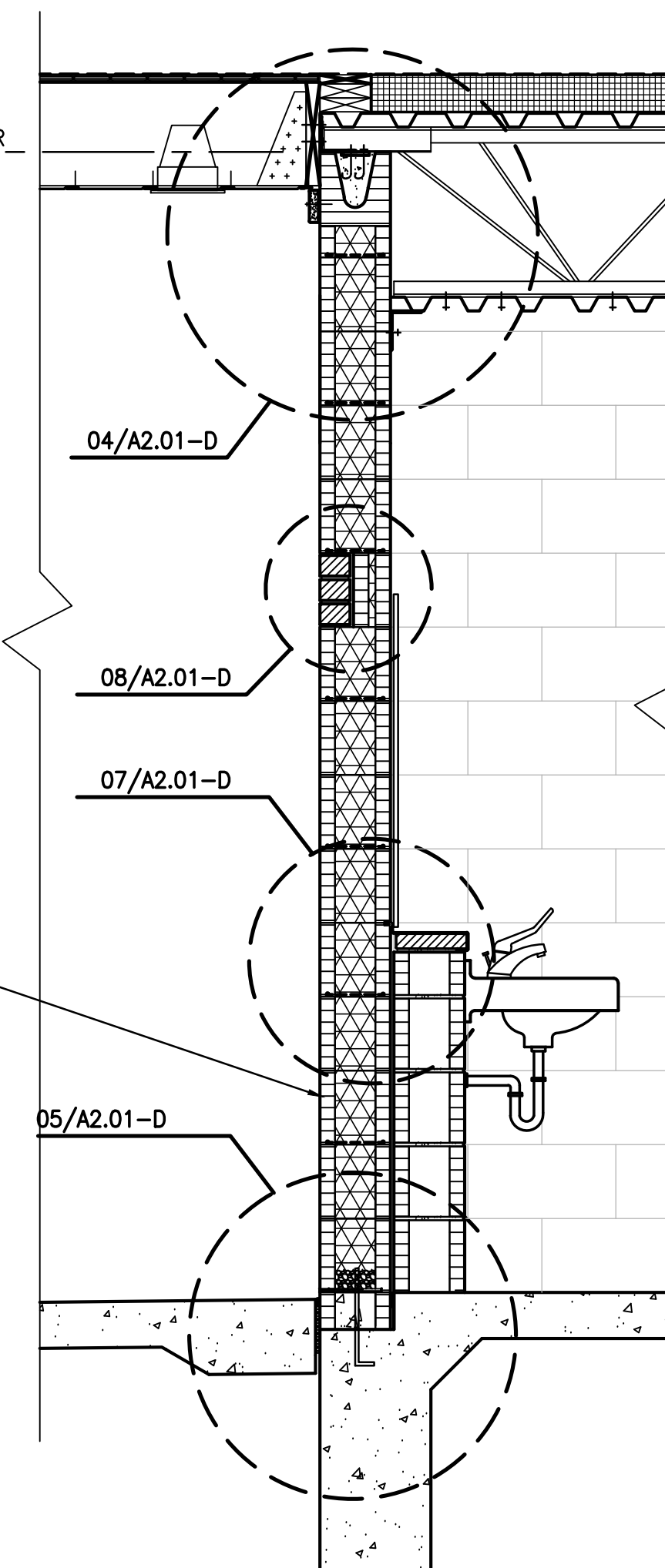
01 WALL SECTION PARALLEL TO TRUSSES

SCALE: 3/4" = 1'-0"



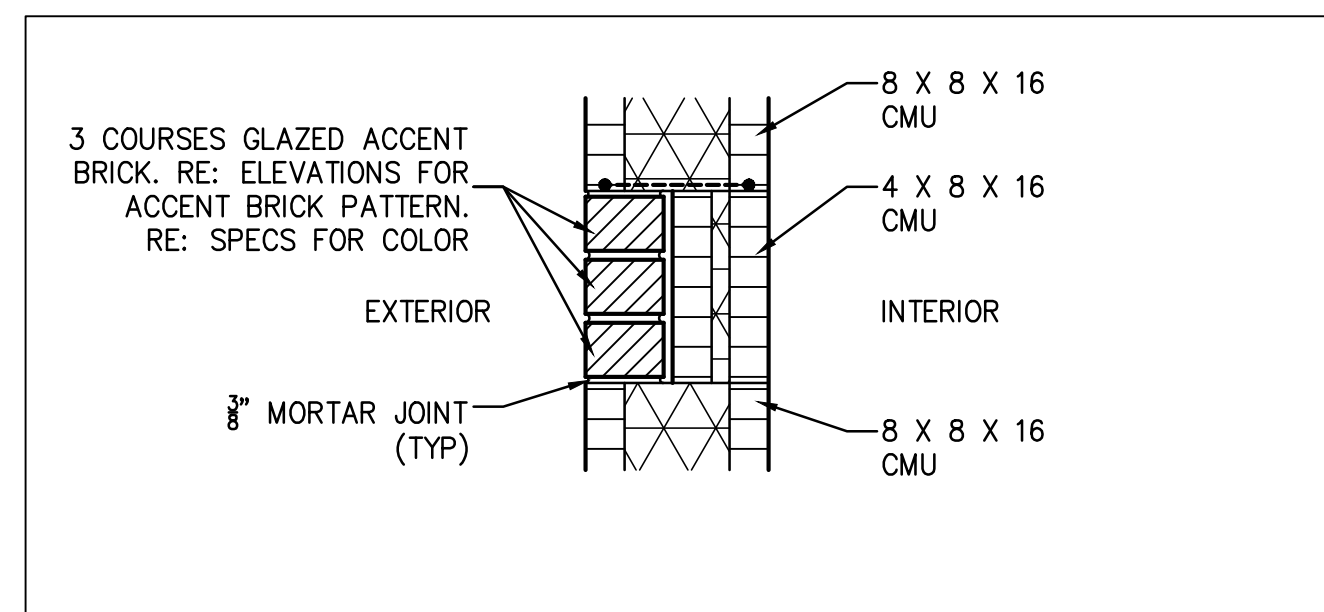
07 STAINLESS STEEL SHELF

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



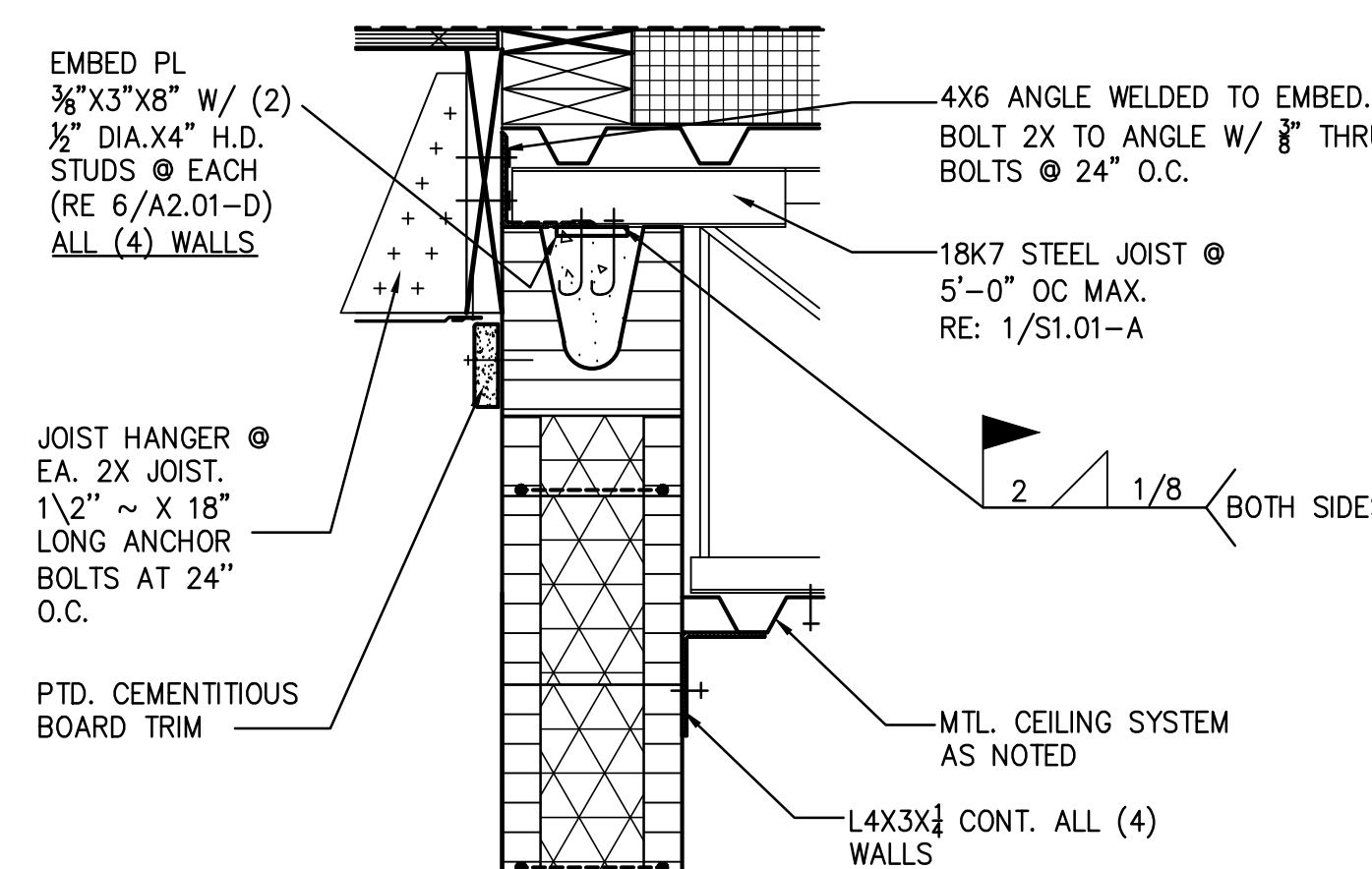
02 WALL SECTION AT JOIST BEARING, TYPICAL

SCALE: 3/4" = 1'-0"



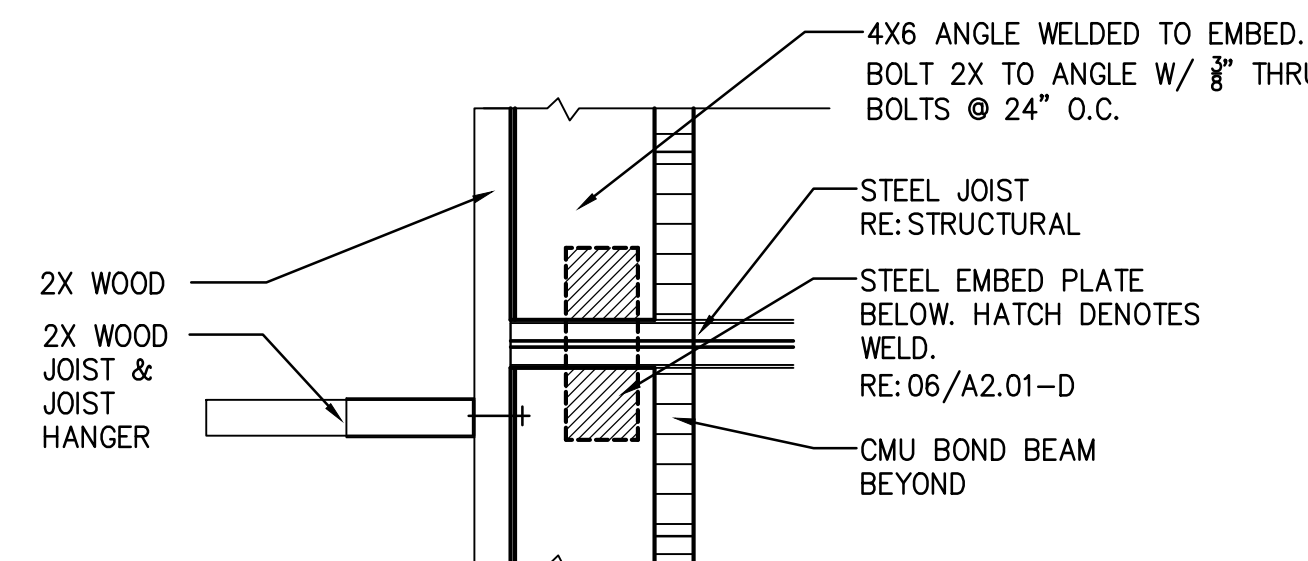
08 GLAZED ACCENT BRICK DTL. (TYP)

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



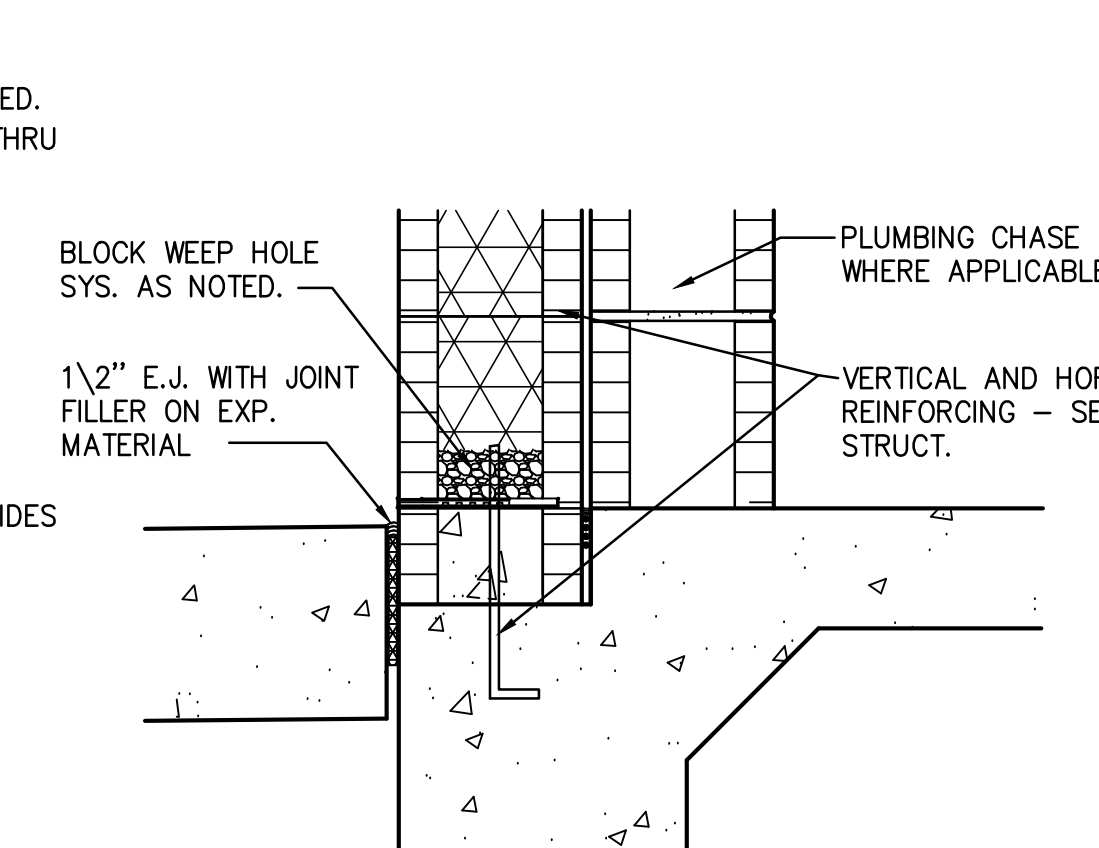
04 TRUSS BEARING

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



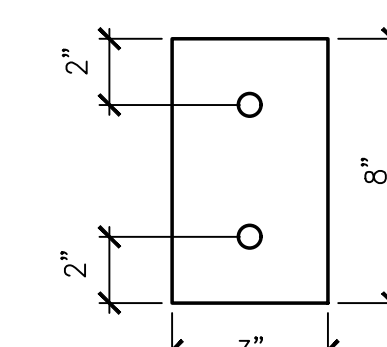
03 TRUSS BEARING PLAN DETAIL

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



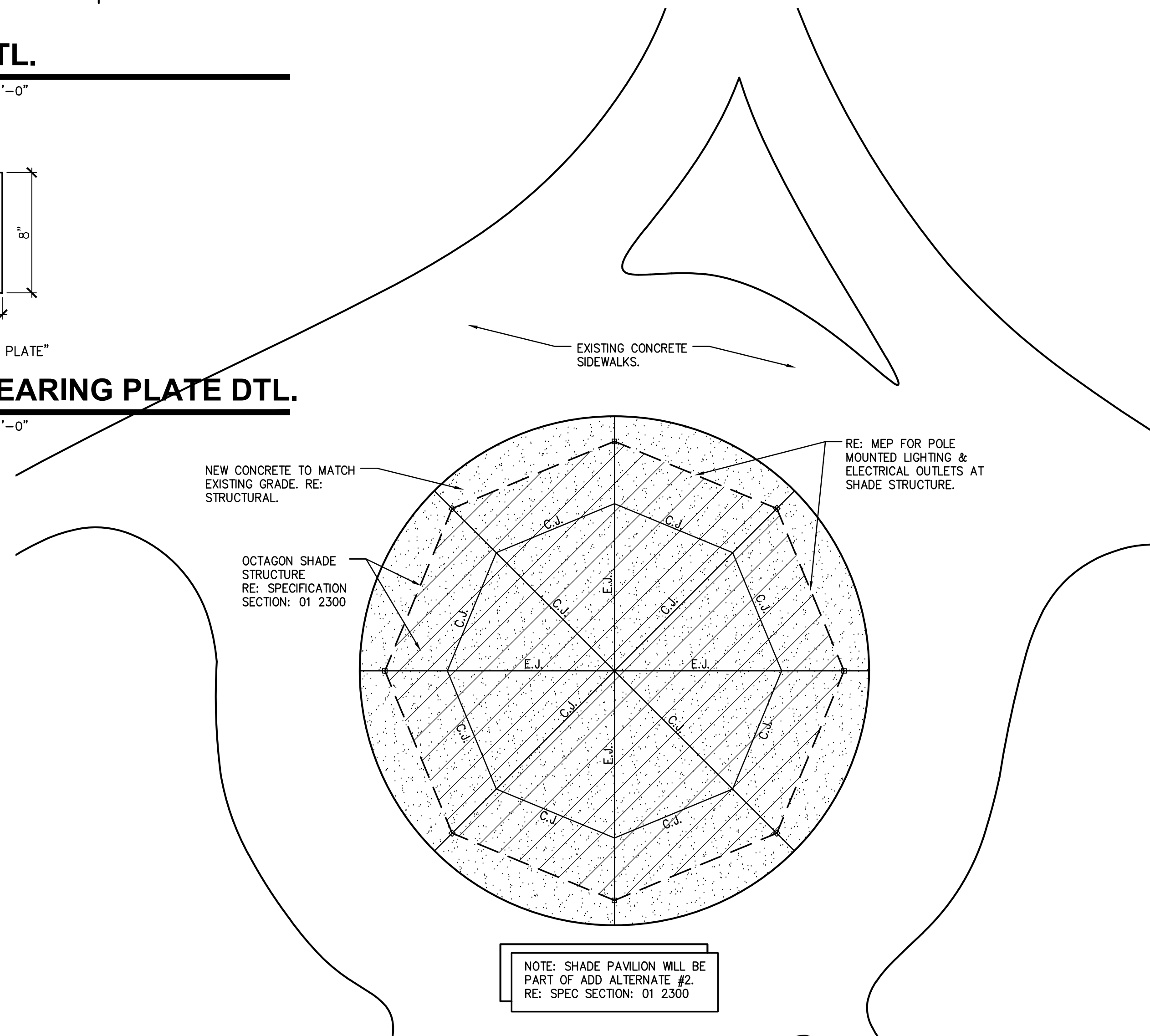
05 BASE DTL.

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



06 JOIST BEARING PLATE DTL.

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



B SITE PLAN - SHADE STRUCTURE AT PLAY AREA

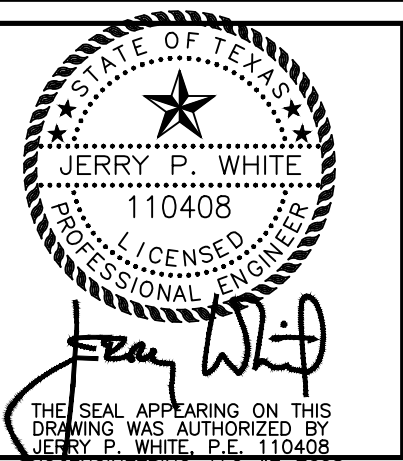
SCALE: 1/8" = 1'-0"

PLAN NORTH

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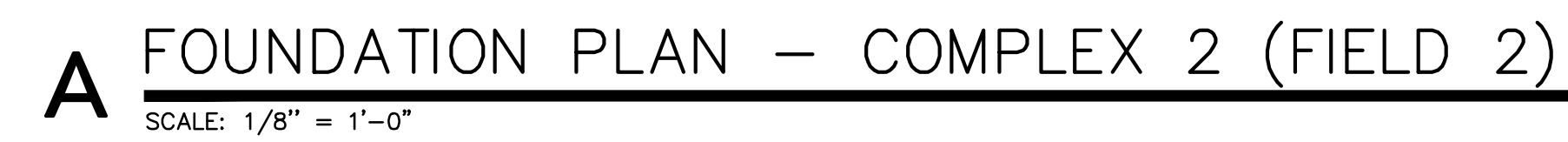
RIO CONCHO COMMUNITY CITY PARK
TEXAS BANK SPORTS COMPLEX
CONCESSION BUILDING #2
City of San Angelo, Texas

Project No. 250-02-0516

Date September 14, 2016

Sheet Number

A2.01-D



GENERAL NOTES

A. GENERAL

- DO NOT SCALE DRAWINGS FOR THE PURPOSE OF ESTABLISHING DIMENSIONS.
- VERIFY EXISTING CONDITIONS AND DIMENSIONS WITH ARCHITECT PRIOR TO BEGINNING WORK.
- REFERENCE ARCHITECTURAL, STRUCTURAL, AND MECHANICAL PLANS FOR VERIFICATION OF ALL BOLTS, BLOCKING, ANCHORS, ETC., AND THE ANCHORAGE OF THEIR RESPECTIVE ITEMS.
- COORDINATE WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS AND VERIFY THE LOCATION OF ALL CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS, PADS, WALL OPENINGS, AND OTHER PROJECT REQUIREMENTS.
- CONCRETE TRUCKS, CRANES, FORKLIFTS OR ANY VEHICLE WITH A WHEEL LOAD GREATER THAN 2,000 POUNDS SHALL NOT BE PERMITTED ON THE STRUCTURAL SLAB OR SLAB-ON-GRADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- CONSTRUCTION MATERIALS SHALL BE SPREAD OUT WHEN PLACED ON FLOORS OR ROOF. LOAD SHALL NOT EXCEED THE DESIGNED LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT OBTAINED DESIGN STRENGTH.

B. DESIGN CRITERIA AND BUILDING CODE

- INTERNATIONAL BUILDING CODE, 2003, INCLUDING AMENDMENTS AND ADDITIONS.
- FLOOR LIVE LOADS
a. ALL AREAS
UNIFORM LOADS
100 PSF

C. FOUNDATION AND SUB-GRADE PREPARATION

- THE SUBGRADE INFORMATION AND FOUNDATION DESIGN ARE BASED UPON A GEOTECHNICAL INVESTIGATION CONDUCTED BY SKG ENGINEERING, PROJECT NO. 06-A-0553.
- BELOW AND 3' BEYOND THE FOUNDATION, REMOVE AT A MINIMUM THE TOP 3" EXISTING MATERIAL, OR AS REQUIRED TO MEET THE REQUIREMENTS DETAILED HEREIN. IN ADDITION REMOVE ANY LOOSE, ORGANIC, SPONGY, OR OTHERWISE UNSUITABLE MATERIALS BELOW AND DISPOSE OFF IN A PROPER MANNER. THE EXPOSED SUBGRADE SHALL THEN BE PROPELLED UNTIL IT OFFERS A RELATIVELY UNVEILING SURFACE. ANY SOFT OR PUMPING AREAS ARE TO BE EXCAVATED AND REPLACED WITH AN APPROVED FILL. SCARIFY AND MOISTURE CONDITION TOP 6" OF SUBGRADE TO A DEPTH OF SIX INCHES AND COMPACT TO AT LEAST 95 PERCENT OF THE STANDARD PROCTOR DENSITY WITHIN ±2 PERCENTAGE POINTS OF THE SOIL'S OPTIMUM MOISTURE CONTENT. ARRANGE FOR AN INDEPENDENT TESTING AGENCY TO VERIFY COMPACTION.
- PROVIDE AN APPROVED SELECT FILL TO BRING THE SUBGRADE TO ELEVATION, AN APPROVED FILL MATERIAL WITH A PLASTICITY INDEX BETWEEN 6 AND 14 AND LIQUID LIMIT LESS THAN 40, PERCENT RETAINED ON SIEVE AS FOLLOWS: 2-1/2", 0-5%, No. 4: 40-80%, AND No. 40: 50-85% SHALL BE PLACED BELOW AND 3' BEYOND THE FOUNDATION IN LIFTS NOT TO EXCEED EIGHT INCHES THICK. UNIFORMLY COMPACT TO AT LEAST 95 PERCENT OF THE STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D698 WITHIN ±2 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT. ARRANGE FOR AN INDEPENDENT TESTING AGENCY TO VERIFY COMPACTION.
- PROVIDE COMPACTED BASE CONSISTING OF TYPE A, GRADE 2 OR BETTER, LIMESTONE MATERIAL BELOW AND 3' BEYOND THE FOUNDATION IN LIFTS NOT TO EXCEED EIGHT INCHES THICK. UNIFORMLY COMPACT TO AT LEAST 96 PERCENT OF THE STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D698 WITHIN ±2 PERCENT OF THE OPTIMUM MOISTURE CONTENT. ARRANGE FOR AN INDEPENDENT TESTING AGENCY TO VERIFY COMPACTION.
- VERIFY COMPACTION AT A FREQUENCY OF A MINIMUM OF 3 TEST PER LIFT OR ONE PER 2,000 SQUARE FEET OF AREA.
- MAINTAIN THE SUBGRADE AND FILL MOISTURE CONTENT UNTIL FOUNDATIONS ARE PLACED TO THE GREATEST EXTENT POSSIBLE.
- USE TEMPORARY DAMS IF REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE HOLE, OR PREVENT INFLOW OF GROUND WATER.
- DO NOT PLACE FOOTINGS OR SLABS AGAINST SUBGRADE CONTAINING FREE WATER, FROST, OR ICE.

D. CAST-IN-PLACE CONCRETE

- WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-96, "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE", PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, DETROIT, MICHIGAN, EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
- TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF ACI 117, "STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS", PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, DETROIT, MICHIGAN, EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
- UNLESS NOTED OTHERWISE, ALL STRUCTURAL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE, UNIT WEIGHT APPROXIMATELY 145 P.C.F.
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4", UNLESS NOTED OTHERWISE.
- SLABS ON GRADE SHALL HAVE CONSTRUCTION JOINTS AND CONTROL JOINTS AS SHOWN ON THE DRAWINGS. OBTAIN WRITTEN APPROVAL FROM ENGINEER IF REQUESTING ADDITIONAL CONSTRUCTION JOINTS.
- CLEAN ALL CONSTRUCTION JOINTS THOROUGHLY AND PURPOSELY ROUGHEN THE SURFACE TO 1/4" AMPLITUDE PRIOR TO PLACING ADJACENT CONCRETE.
- APPLY A GREY COLOR, HORIZONTAL JOINT SEALANT IN ALL CONSTRUCTION AND SAWN JOINTS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- PLACEMENT OF SLEEVES OR OPENINGS THROUGH BEAMS, COLUMNS, OR JOISTS IS NOT PERMITTED UNLESS INDICATED ON STRUCTURAL DRAWINGS OR APPROVED, IN WRITING, BY ENGINEER. OPENINGS 12" SQUARE OR SMALLER MAY BE PLACED WITHOUT WRITTEN APPROVAL.
- CAREFULLY COORDINATE THE PLACEMENT OF ALL CAST-IN-PLACE EMBEDS AND ANCHOR BOLTS. ANCHOR BOLTS SHALL BE SET WITH A TEMPLATE. ALL EMBED ITEMS SHALL BE SECURELY ATTACHED TO FORMWORK OR REINFORCING.
- ALL WELDING TO REINFORCING WILL CONFORM TO THE AWS STRUCTURAL WELDING CODE-REINFORCING STEEL, D1.4-2000.
- CONCRETE MIX DESIGNS SHALL CONFORM TO THE FOLLOWING:
 - SLAB ON GRADE, GRADE BEAMS, PIERS AND PLASTERS
 - 1-1/2 INCH MAXIMUM COARSE AGGREGATE;
 - MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSF;
 - MAXIMUM WATER-TO-CONCRETE MATERIAL RATIO OF 0.53;
 - SUMP BETWEEN 4 AND 6 INCHES;
 - AIR CONTENT SHALL BE 4% TO 6%;
 - USE OF FLY-ASH AND/OR GROUND-GRANULATED-BLAST-FURNACE-SLAG IS LIMITED TO 20% SUBSTITUTION BY WEIGHT OF CEMENT.
 - ALL EXPOSED CONCRETE SURFACES SHALL HAVE A TOOLED FINISH UNLESS NOTED ELSEWHERE IN THE PLANS OR CONSTRUCTION DOCUMENTS.
- ADDITION OF WATER TO BATCHED CONCRETE AT THE JOB SITE IS LIMITED TO THE CASE WHEN THE WORKABILITY OF DELIVERED CONCRETE IS INSUFFICIENT FOR PRACTICAL PLACEMENT AND ALL OF THE WATER ALLOWED BY THE MIX DESIGN HAS NOT BEEN ADDED AT THE START OF MIXING. IN NO CASE SHALL THE SPECIFIED WATER-TO-CONCRETE MATERIAL RATIO OR SLUMP BE EXCEEDED. UNDER NO CIRCUMSTANCES SHALL WATER BE ADDED TO THE CONCRETE MIXTURE AFTER PART OF THE BATCH HAS BEEN DISCHARGED.
- UNLESS AN ALTERNATIVE CURING PROCEDURE IS SUBMITTED TO THE ENGINEER FOR APPROVAL, CONCRETE SHALL BE MAINTAINED ABOVE 50°F AND IN A MOIST CONDITION FOR AT LEAST THE FIRST 5 DAYS AFTER PLACEMENT.

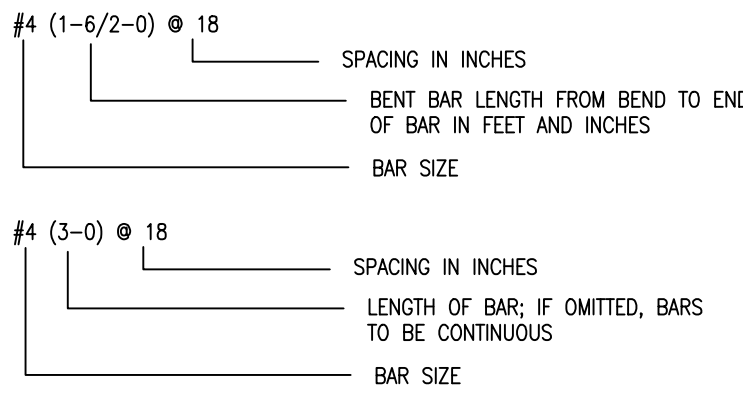
E. CONCRETE CONTROL TESTS

- MAKE TEST CYLINDERS FROM CONCRETE MIXED AND AT THE DIRECTION OF ARCHITECT/ENGINEER. A MINIMUM OF FOUR (4) TEST CYLINDERS SHALL BE MADE FOR EACH POUR OR PER EVERY 50 CUBIC YARDS.
- TEST SPECIMENS SHALL BE TAKEN AND TESTED BY AN APPROVED TESTING LABORATORY, IN ACCORDANCE WITH ASTM SPECIFICATIONS FOR COMPRESSION TEST OF CONCRETE. CRUSH ONE (1) TEST CYLINDER AT SEVEN DAYS, TWO (2) AT TWENTY-EIGHT DAYS, AND HOLD ONE (1) IN RESERVE. CONCRETE TESTED WHEN FALLS BELOW THE STRENGTH SPECIFIED SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- MAKE SLUMP TEST FOR EACH SET OF CYLINDERS. SLUMP- DETERMINED WITH A STANDARD SLUMP CONE IN ACCORDANCE WITH ASTM RECOMMENDATIONS BY AN APPROVED TESTING COMPANY.
- LABORATORY REPORTS SHALL INCLUDE:
 - DATE OF POUR.
 - LOCATION OF POUR, SO THAT IDENTIFIED ON PLANS.
 - BY WHOM CYLINDERS TAKEN, INCLUDING NAME OF INDIVIDUAL.
 - SLUMP.
 - TEMPERATURE.
 - RESULTS OF COMPRESSION TEST.
- DISTRIBUTION OF TEST RESULTS: ONE COPY TO STRUCTURAL ENGINEER AND ONE COPY TO ARCHITECT. TEST RESULTS WHICH DO NOT INCLUDE ABOVE INFORMATION ARE NOT ACCEPTABLE, UNLESS ACCOMPANIED BY LETTER EXPLAINING REASONS FOR NON-COMPLIANCE.

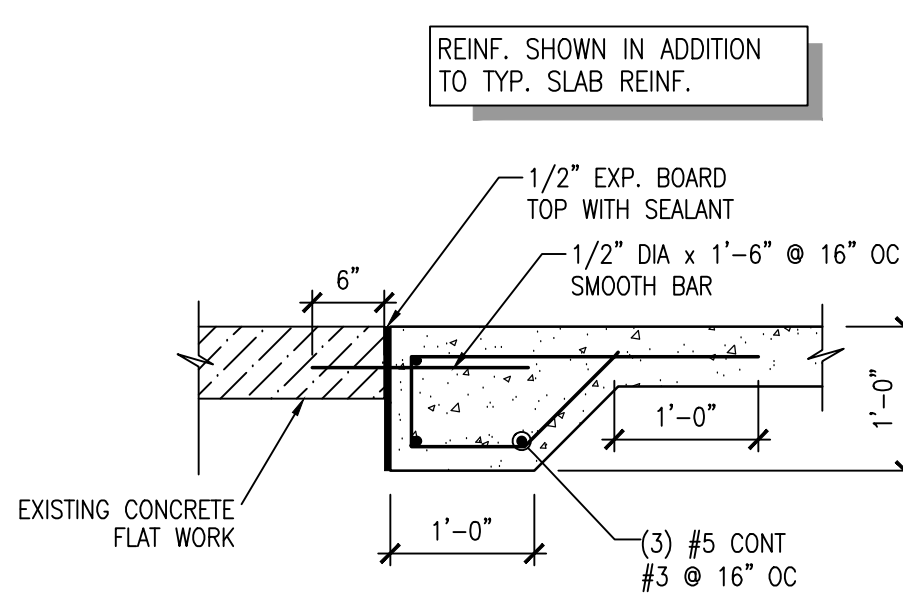
F. REINFORCING STEEL

- PROVIDE NEW BILLET STEEL REINFORCING CONFORMING TO ASTM A615, GRADE 60.
- PROVIDE WELDED WIRE FABRIC CONFORMING TO ASTM A185. LAP LENGTH FOR WELDED WIRE FABRIC IS 12" MINIMUM.
- CONCRETE CLEAR COVER OVER REINFORCING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318-99 AS FOLLOWS:

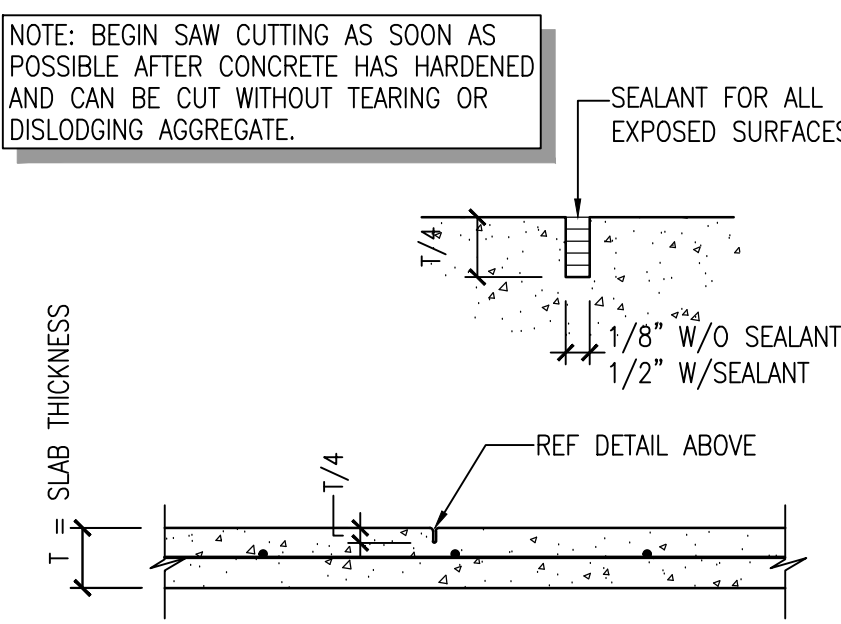
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3 in.
EXPOSED TO EARTH OR WEATHER, #6 BAR AND LARGER	2 in.
EXPOSED TO EARTH OR WEATHER, #5 BAR AND SMALLER	1 1/2 in.
SLABS, WALLS, JOISTS NOT EXPOSED TO EARTH OR WEATHER	3/4 in.
BEAMS AND COLUMNS NOT EXPOSED TO EARTH OR WEATHER	1 1/2 in.
- ALL REINFORCING SHALL BE CONTINUOUS UNLESS NOTED OTHERWISE. PROVIDE CLASS "B" REINFORCING SPLICES. PROVIDE STANDARD 90 DEGREE HOOKS IN ACCORDANCE WITH ACI 318-99, UNLESS NOTED OTHERWISE. STAGGER SPLICES UNLESS SPECIFICALLY NOTED.
- WHERE REQUIRED, PROVIDE DOWELS MATCHING SIZE AND SPACING OF MAIN REINFORCEMENT.
- REINFORCING LEGEND:



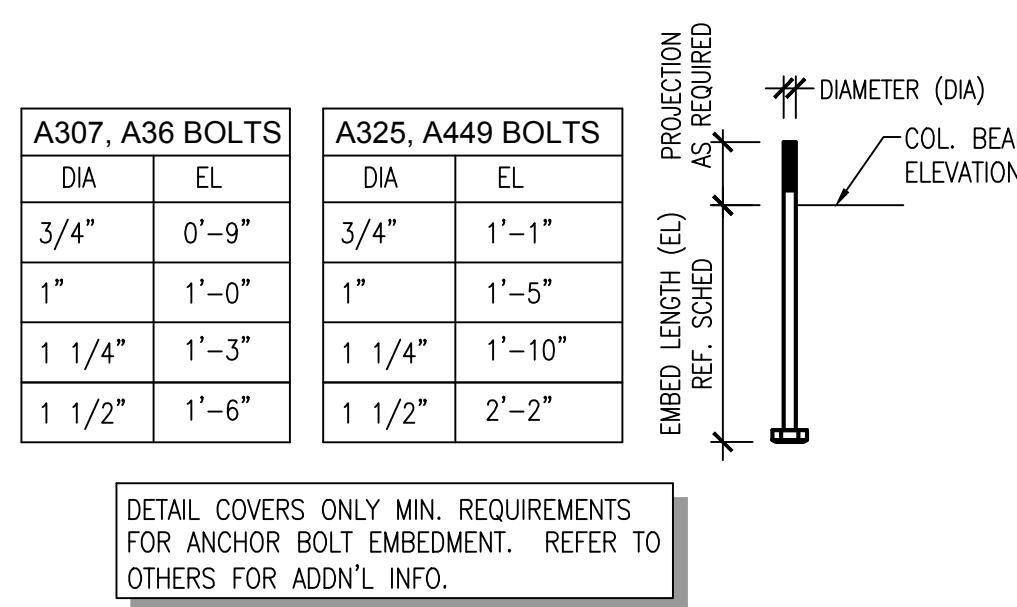
1 SLAB SECTION
NO SCALE



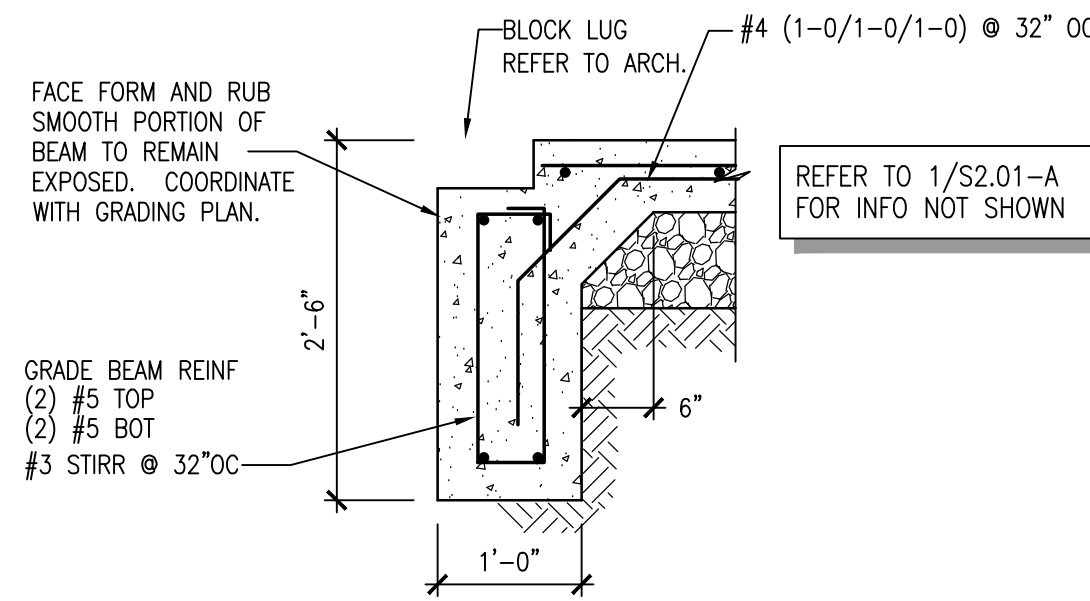
4 THICKENED SLAB SECTION
NO SCALE



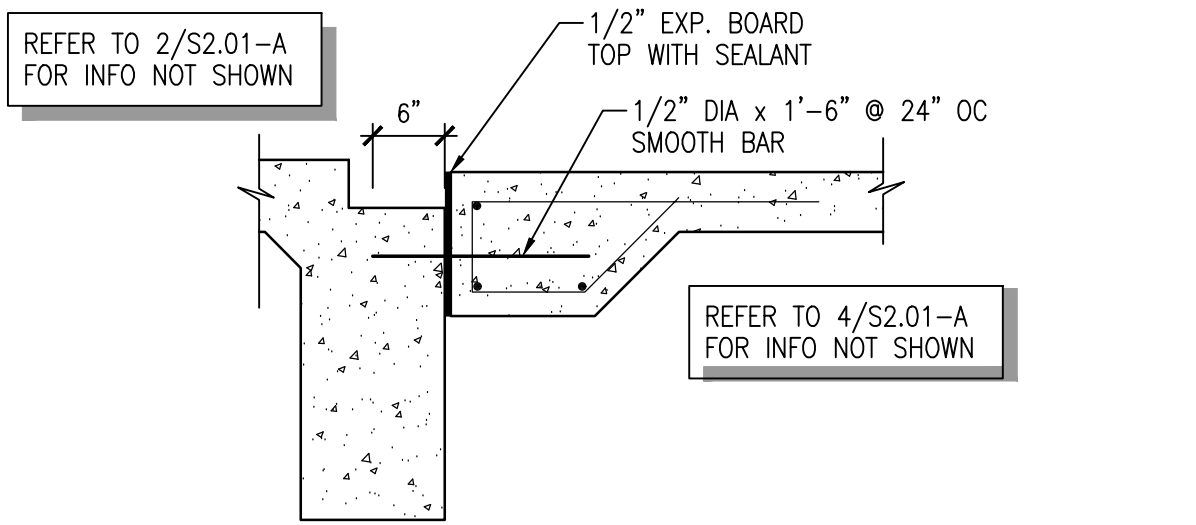
7 CONTROL JOINT (CJ) TYPICAL DETAIL
NO SCALE



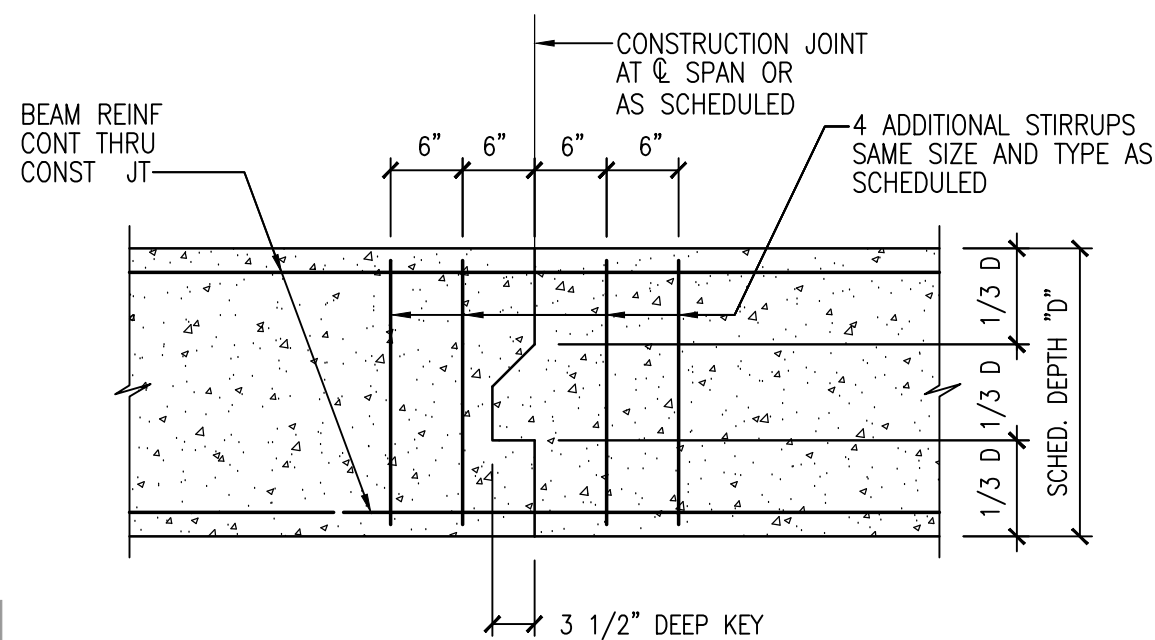
11 ANCHOR BOLT EMBEDMENT SCHEDULE
NO SCALE



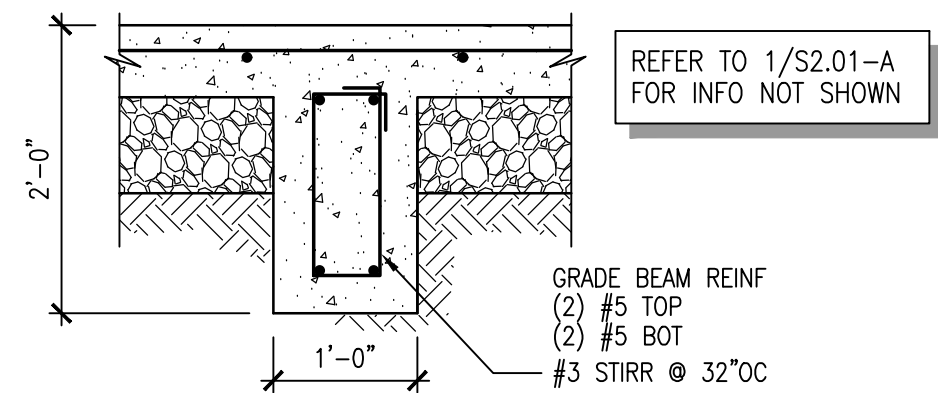
2 PERIMETER BEAM SECTION
NO SCALE



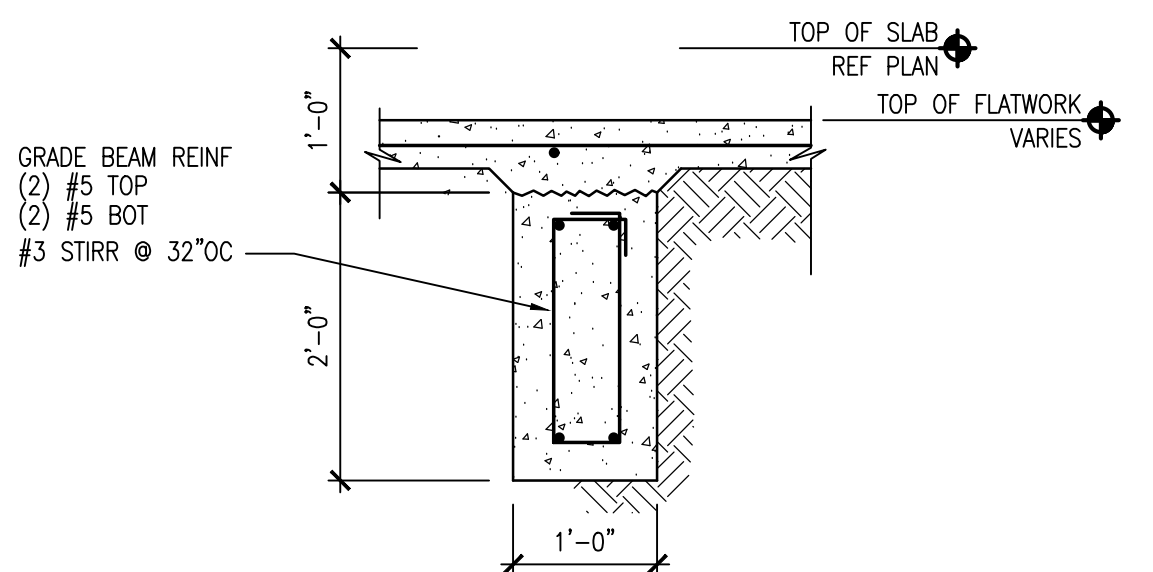
5 CONSTRUCTION JOINT BEAM DETAIL
NO SCALE



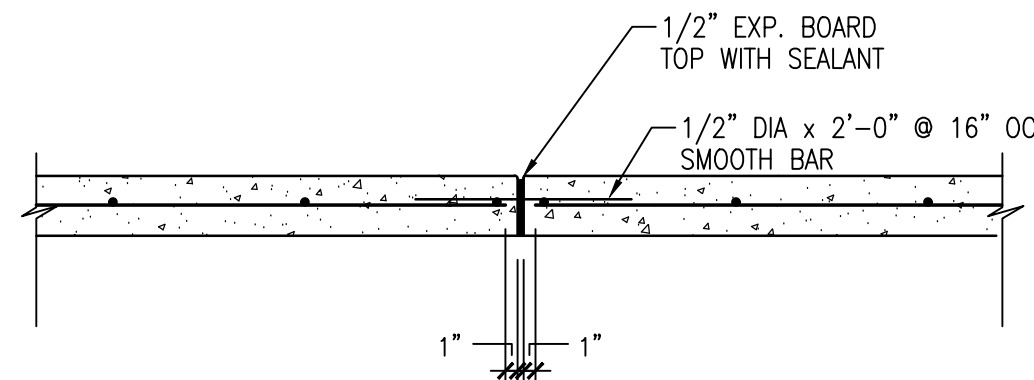
8 CONSTRUCTION JOINT SLAB DETAIL
NO SCALE



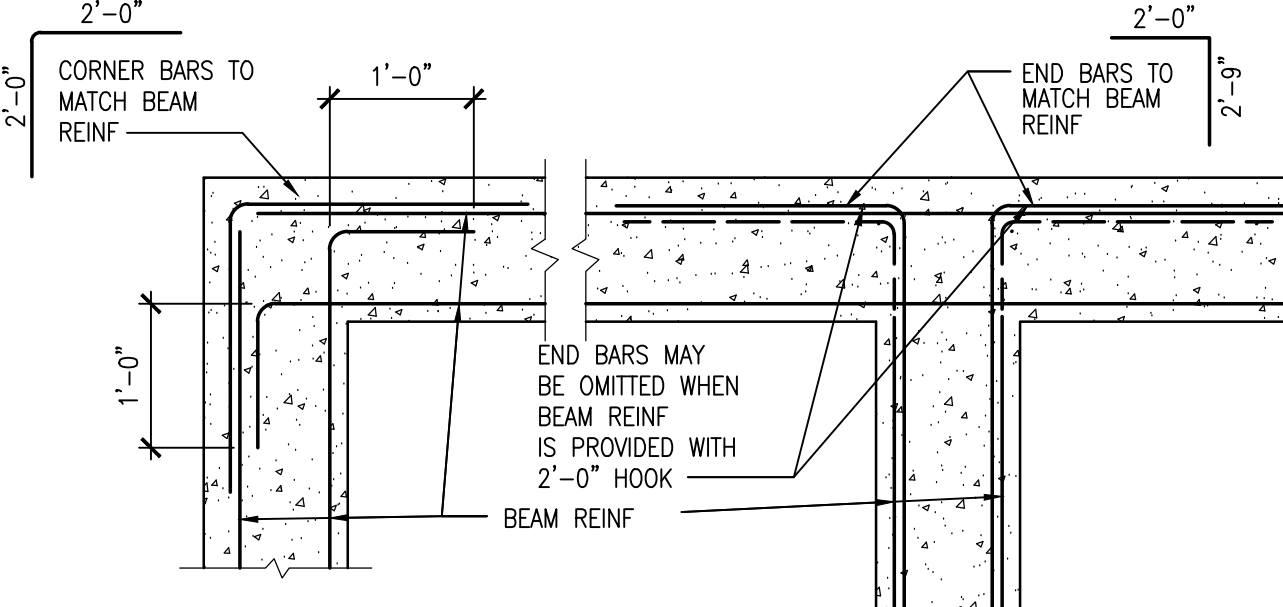
3 INTERIOR BEAM SECTION
NO SCALE



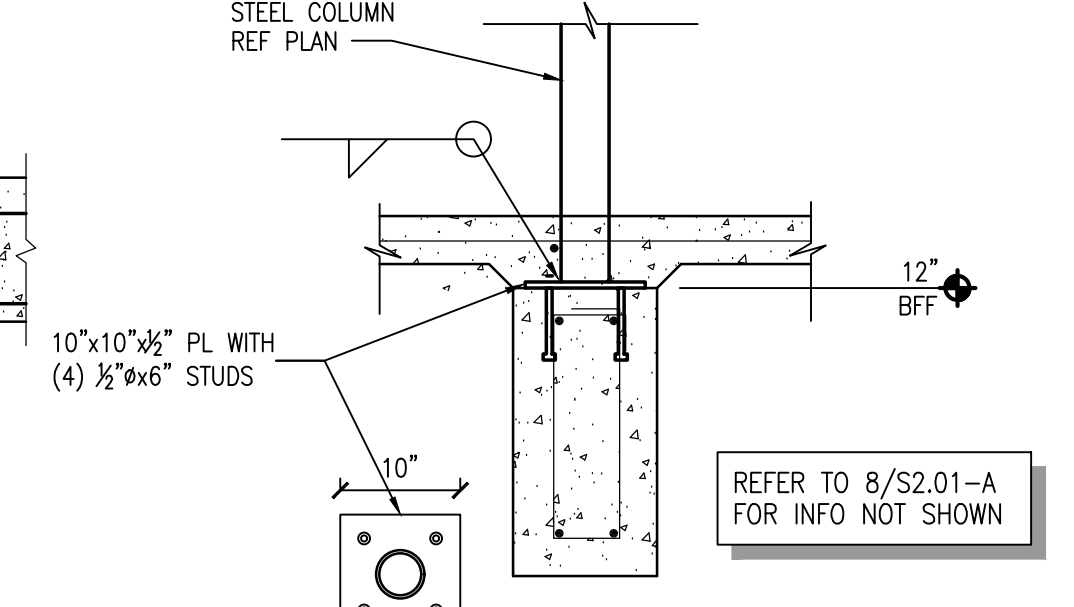
6 CONTINUOUS FOOTING SECTION
NO SCALE



9 CONSTRUCTION-EXPANSION JOINT (EJ) SLAB DETAIL
NO SCALE



12 CORNER REINFORCEMENT TYPICAL DETAIL
NO SCALE



13 BASE PLATE DETAIL
NO SCALE

Revised

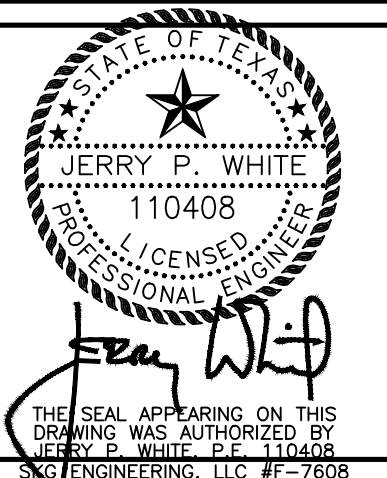
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RIO CONCHO COMMUNITY CITY PARK

TEXAS BANK SPORTS COMPLEX

CONCESSION BUILDING #2

City of San Angelo, Texas

Project No. 250-02-0516

Date September 14, 2016

Sheet Number

S2.01-A

16-E-0929

SKG
ENGINEERING, LLC

SURVEYING • ENVIRONMENTAL • LAB/CMT

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FAX: 325.657.8189
FIRM REGISTRATION NUMBER F-7608 & 10102400
PROJECT # 15-E-0929

GENERAL NOTES

A. GENERAL

- DO NOT SCALE DRAWINGS FOR THE PURPOSE OF ESTABLISHING DIMENSIONS.
- VERIFY EXISTING CONDITIONS AND DIMENSIONS WITH ARCHITECTURAL PLANS PRIOR TO BEGINNING WORK.
- REFERENCE ARCHITECTURAL, STRUCTURAL, AND MECHANICAL PLANS FOR VERIFICATION OF ALL BOLTS, BRIDGING, ANCHORS, ETC., AND THE ANCHORAGE OF THEIR RESPECTIVE ITEMS.
- COORDINATE WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS AND VERIFY THE LOCATION OF ALL CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS, PADS, WALL OPENINGS, AND OTHER PROJECT REQUIREMENTS.

B. DESIGN CRITERIA AND BUILDING CODE

- INTERNATIONAL BUILDING CODE, 2009, INCLUDING AMENDMENTS AND ADDITIONS.
UNIFORM LOADS
- ROOF LIVE LOAD 20 PSF (REDUCIBLE)
- ROOF DEAD LOAD 15 PSF
- SNOW LOADS
GROUND SNOW LOAD 5 PSF
ROOF SNOW LOADS 5 PSF
SNOW EXPOSURE FACTOR 0.9
SNOW LOAD IMPORTANCE 1.0
- WIND LOADS
BASIC WIND SPEED (ASCE -10) 115 MPH
VELOCITY PRESSURE 24.5 PSF
EXPOSURE 1.0
C

C. STRUCTURAL STEEL

- | | FY, KSI | ASTM |
|--|---------|-------------|
| STRUCTURAL STEEL SHAPES, W AND WT 50 | 50 | A992 |
| STRUCTURAL STEEL SHAPES, OTHER THAN W AND WT | 36 | A36 |
| STRUCTURAL STEEL PLATES | 36 | A36 |
| HOLLOW STRUCTURAL SECTION (HSS), RECTANGULAR | 46 | A500, GR B |
| HOLLOW STRUCTURAL SECTION (HSS), ROUND | 42 | A500, GR B |
| HOLLOW STRUCTURAL SECTION (HSS), SCHED | 50 | A570 |
| STRUCTURAL BOLTS | 92 | A325 |
| WELDING ELECTRODES | E70XX | AWS D1.1 00 |
- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, CURRENT EDITION.
 - ALL STRUCTURAL STEEL MEMBERS AND CONNECTIONS SHALL BE DESIGNED USING AISC MANUAL OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN, SECOND EDITION.
 - PROVIDE ALL WELDING DONE BY QUALIFIED, CERTIFIED WELDERS IN ACCORDANCE WITH AWS STRUCTURAL WELDING CODE-STEEL, D1.1:2000.
 - STRUCTURAL DETAILS AND CONNECTIONS SHALL CONFORM TO THE STANDARDS OF THE AISC.

MINIMUM SIZE OF FILLET WELDS[D]

Material Thickness of Thicker Part Jointed (in.)	Minimum Size of Fillet Weld (in.)
To 1/4 inclusive	1/8
Over 1/4 to 1/2	3/16
Over 1/2 to 3/4	1/4
Over 3/4	5/16

[d] Leg dimension of fillet welds. Single pass welds must be used.
[a] See AWS Section D2.2b for maximum size of fillet welds.

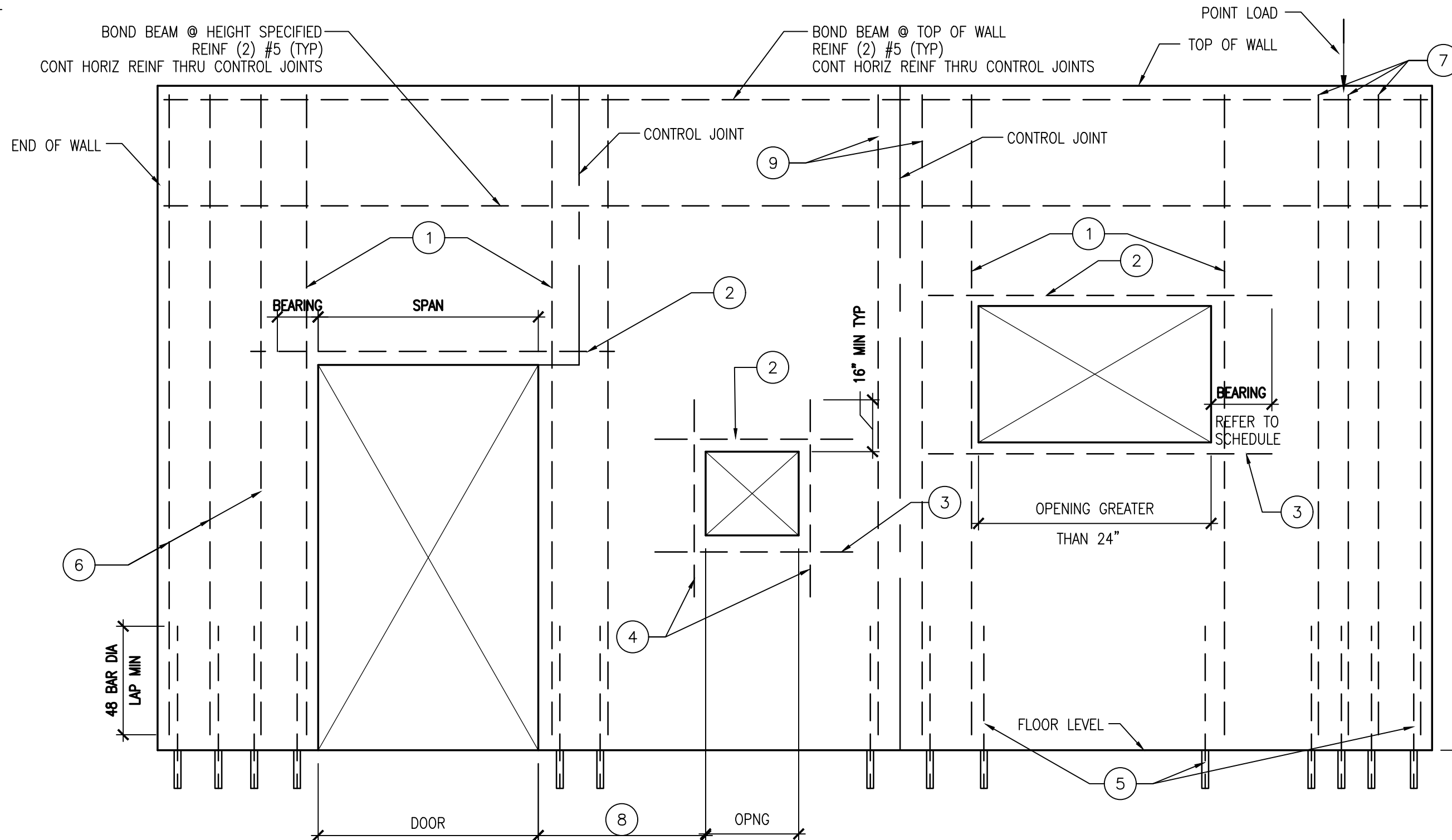
- STRUCTURAL STEEL CONNECTIONS NOT DETAILED SHALL BE DESIGNED FOR 50% OF THE TOTAL ALLOWABLE UNIFORM LOAD (W_U/L) FOR THE GIVEN SPAN AS INDICATED IN PART 2 (BEAMS AND GIRDERS) OF THE AISC MANUAL. MEMBERS REQUIRING CONNECTIONS OF GREATER CAPACITY THAN STATED ABOVE HAVE MEMBER REACTIONS SHOWN ON THE PLANS.
- THE FABRICATOR SHALL SUPPLY BACK-UP PLATES AND EXTENSION TABS FOR ALL COMPLETE PENETRATION WELDS.
- PROVIDE BEARING TYPE BOLTS AND INSTALL USING "TURN OF THE NUT" METHOD OR WITH TENSION INDICATING WASHERS.
- UNLESS NOTED OTHERWISE, ALL UNEQUAL LEG DOUBLE ANGLES SHALL HAVE LONG LEGS BACK TO BACK.
- CLEAN RUST, LOOSE MILL SCALE, AND OTHER FOREIGN MATERIALS FROM STEEL WHERE REQUIRED FOR FABRICATION, FITTING UP, OR WELDING.
- NO CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES IS ALLOWED WITHOUT PRIOR REVIEW AND WRITTEN APPROVAL OF THE ENGINEER.
- GROUT FOR BASE PLATES SHALL BE NON-SHRINK, NON-METALLIC GROUT WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 6,000 PSI.

D. STEEL CONNECTIONS TESTING

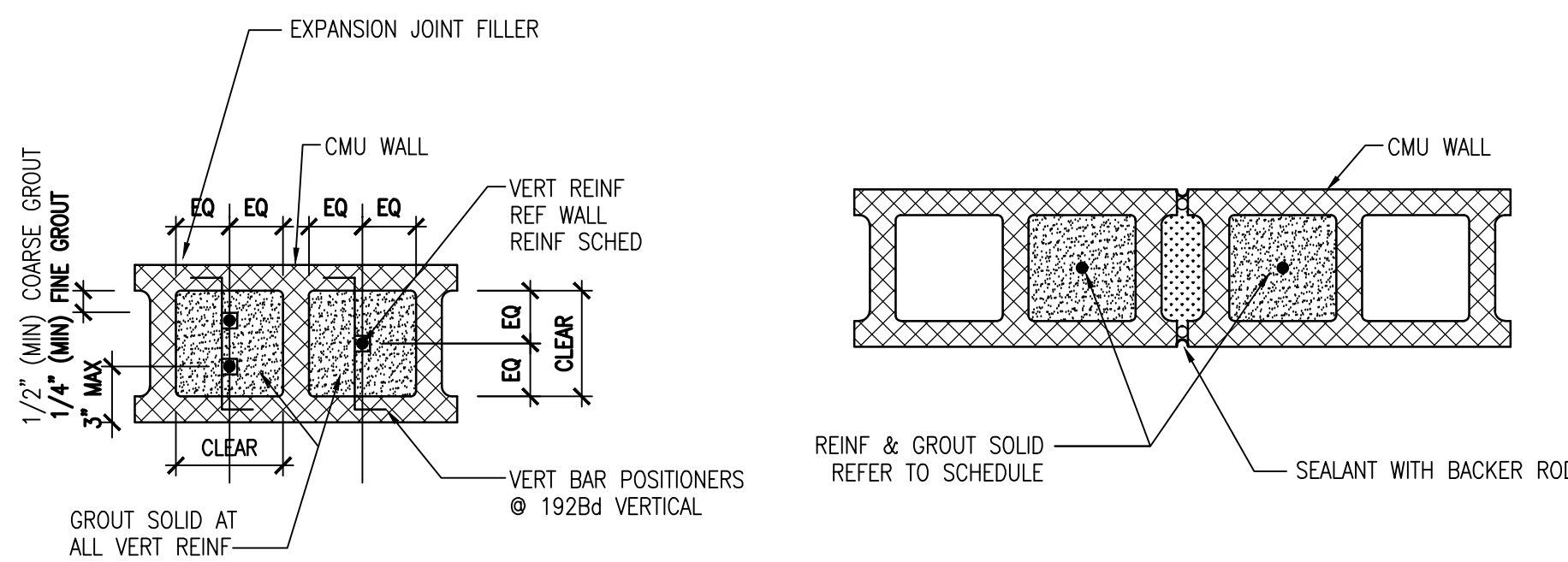
- ARRANGE FOR TESTING AGENCY TO PERFORM ALL SHOP AND FIELD INSPECTION AND TESTING. SEQUENCE ALL WORK TO ALLOW TESTING REQUIREMENTS TO BE COMPLETED.
- PROVIDE INSPECTIONS IN ACCORDANCE WITH AWS D1.1 ON ALL FABRICATED PIECES PRIOR TO SHIPPING AND ON ALL FIELD WORK ON THE SITE.
- REVIEW WELDERS CERTIFICATES.
- PERFORM MAGNETIC PARTICLE TESTING IN ACCORDANCE WITH ASTM E109 ON FILLET WELDS AS FOLLOWS:
100% OF SHEAR PLATE FILLET WELDS AT RANDOM (FINAL PASS ONLY)
100% OF TENSION MEMBER CONNECTIONS (I.E., HANGER RODS, X-BRACING)
100% OF OTHER MISCELLANEOUS WELDS.
- VISUALLY INSPECT ALL REMAINING FILLET WELDS.
- PERFORM ULTRASONIC TESTING ON ALL FULL PENETRATION WELDS.
- PERFORM INSPECTION OF BOLTED CONNECTIONS IN ACCORDANCE WITH AISC SPECIFICATIONS FOR STRUCTURAL JOINTS (USING A325 OR A490 BOLTS). TEST 10% OF ALL BOLTS IN BEARING TYPE CONNECTIONS (MINIMUM 1 BOLT PER CONNECTION). TEST ALL FRICTION TYPE BOLTS.
- VISUALLY INSPECT ALL IN PLACE DECK AND DECK CONNECTIONS. VERIFY DECK TYPE, GAGE, AND FINISH. REVIEW PLUG WELD CONNECTION QUALIFICATION PROCEDURES.
- INSPECT ALL INSTALLATION OF EXPANSION BOLTS TO ENSURE THAT HOLES ARE OF PROPER DIAMETER AND LENGTH, AND INSTALLED IN ACCORDANCE TO MANUFACTURER'S REQUIREMENTS.

E. STEEL JOIST & METAL DECK

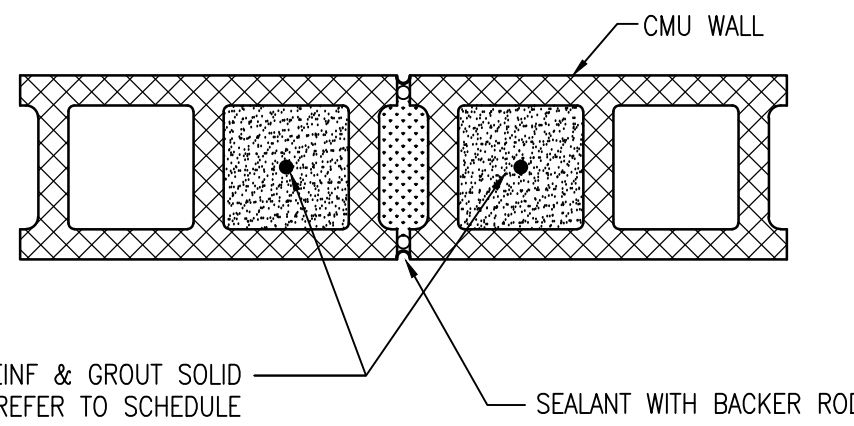
- DESIGN, FABRICATION, AND ERECTION SHALL CONFORM TO STEEL DECK INSTITUTES AND STEEL JOIST INSTITUTES CODE OF RECOMMENDED STANDARD PRACTICE AND BASIC DESIGN SPECIFICATIONS LATEST EDITION.
- STEEL JOIST SHALL BE AN "OPEN WEB STEEL JOISTS K-SERIES" AS MANUFACTURED BY VULCRUF OR APPROVED EQUAL.
- STEEL FORM DECKING SHALL BE GALVANIZED METAL DECK OF THE HEIGHT AND GAGE SHOWN WITH MINIMUM SECTION PROPERTIES AS FOLLOWS:
ROOF - TYPE B
 $H = 1-1/2$ in
 $G_0 = 22$ (MIN BLDG)
 $I_x = 0.188$ in⁴/ft
 $S_x = 0.188$ in³/ft
 $S_y = 0.192$ in³/ft
 $F_y = 33$ KSI
- IMMEDIATELY AFTER ALIGNMENT, CONNECT DECKING TO SUPPORTS, INCLUDING PERIMETER MEMBERS PARALLEL TO SHEETS WITH 5/8" DIAMETER PUDDLE WELDS, AT 18" ON CENTER. PROVIDE SIDE LAP CONNECTION WITH #10 TEK SCREWS AT 18" ON CENTER. PROVIDE A MIN. OF 36 WELDS PER 100 SQ. FT.
- INSTALL DECK IN MINIMUM THREE SPAN LENGTHS WHENEVER POSSIBLE. NO SINGLE SPANS.
- ALL WELDING TO METAL DECK WILL CONFORM TO THE AWS STRUCTURAL WELDING CODE-SHEET STEEL, AWS D1.3-98.
- SUSPENDED CEILING, LIGHT FIXTURES, DUCTS OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL DECK.



1 CMU WALL REINFORCEMENT
TYPICAL DETAIL
NO SCALE



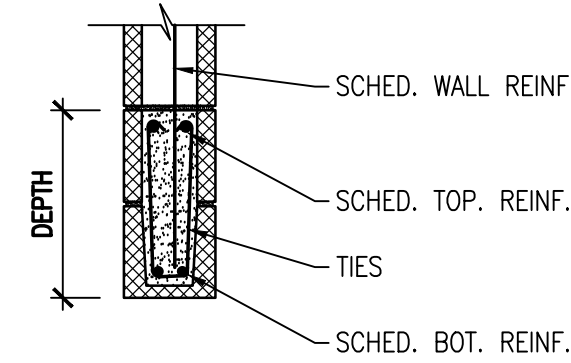
3 REINFORCEMENT
DETAIL
NO SCALE



4 CONTROL JOINT
DETAIL
NO SCALE

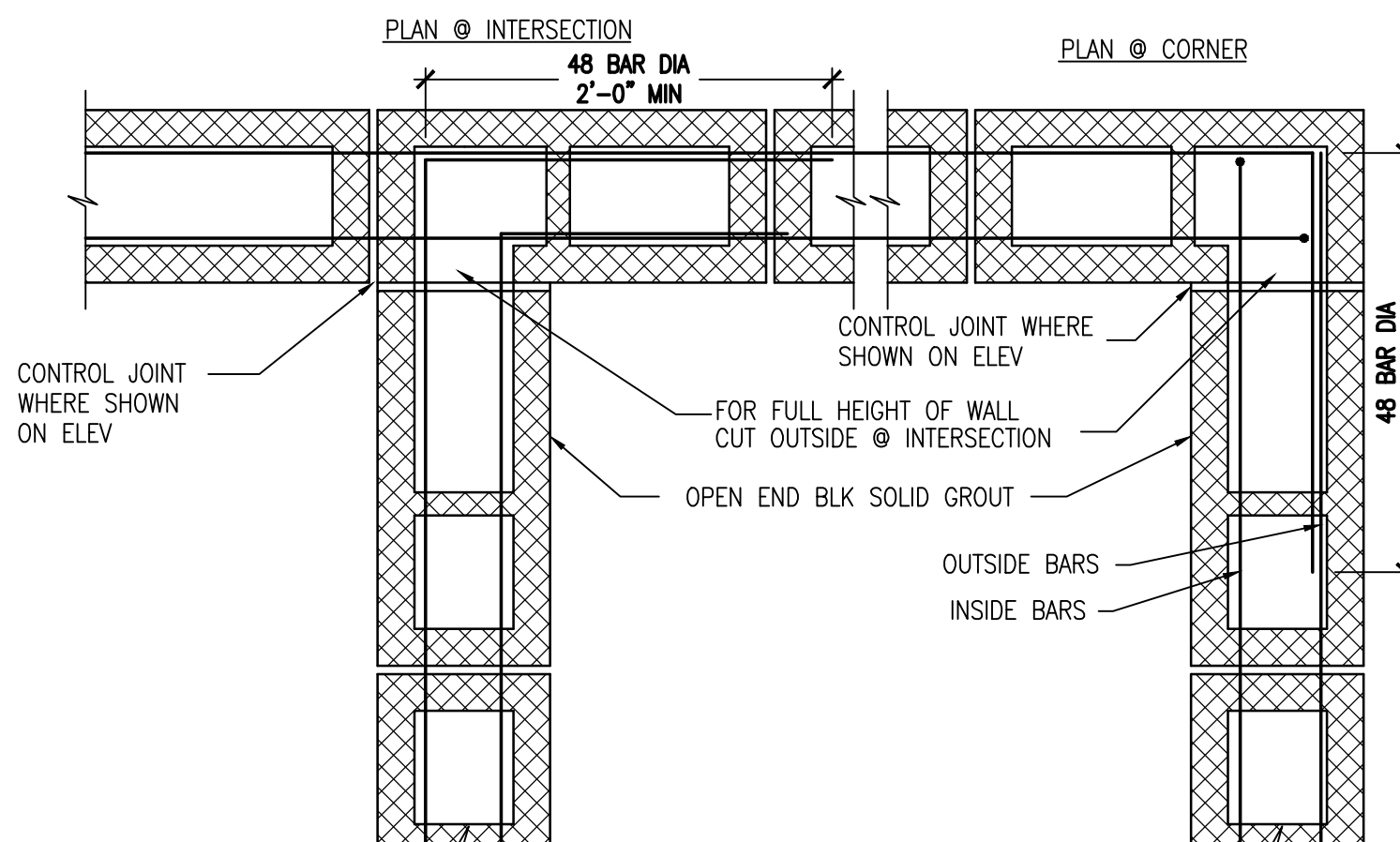
MASONRY LINTEL SCHEDULE					
LENGTH OF SPAN	DEPTH	TIES	BOT. REINF.	TOP REINF.	BEARING
UP TO 4'-0"	8"		(2) #4		8" MIN.
4'-0" TO 6'-0"	16"	#3@16"	(2) #4	(2) #4	8" MIN.
6'-0" TO 8'-0"	16"	#3@16"	(2) #5	(2) #4	16" MIN.
8'-0" TO 10'-0"	16"	#3@12"	(2) #6	(2) #4	16" MIN.

- NOTES:
1. FILL LINTEL BLOCK WITH SPECIFIED MASONRY GROUT.
2. LINTELS ARE DESIGNED FOR LOAD BEARING WALLS.



5 MASONRY LINTEL
SCHEDULE
NO SCALE

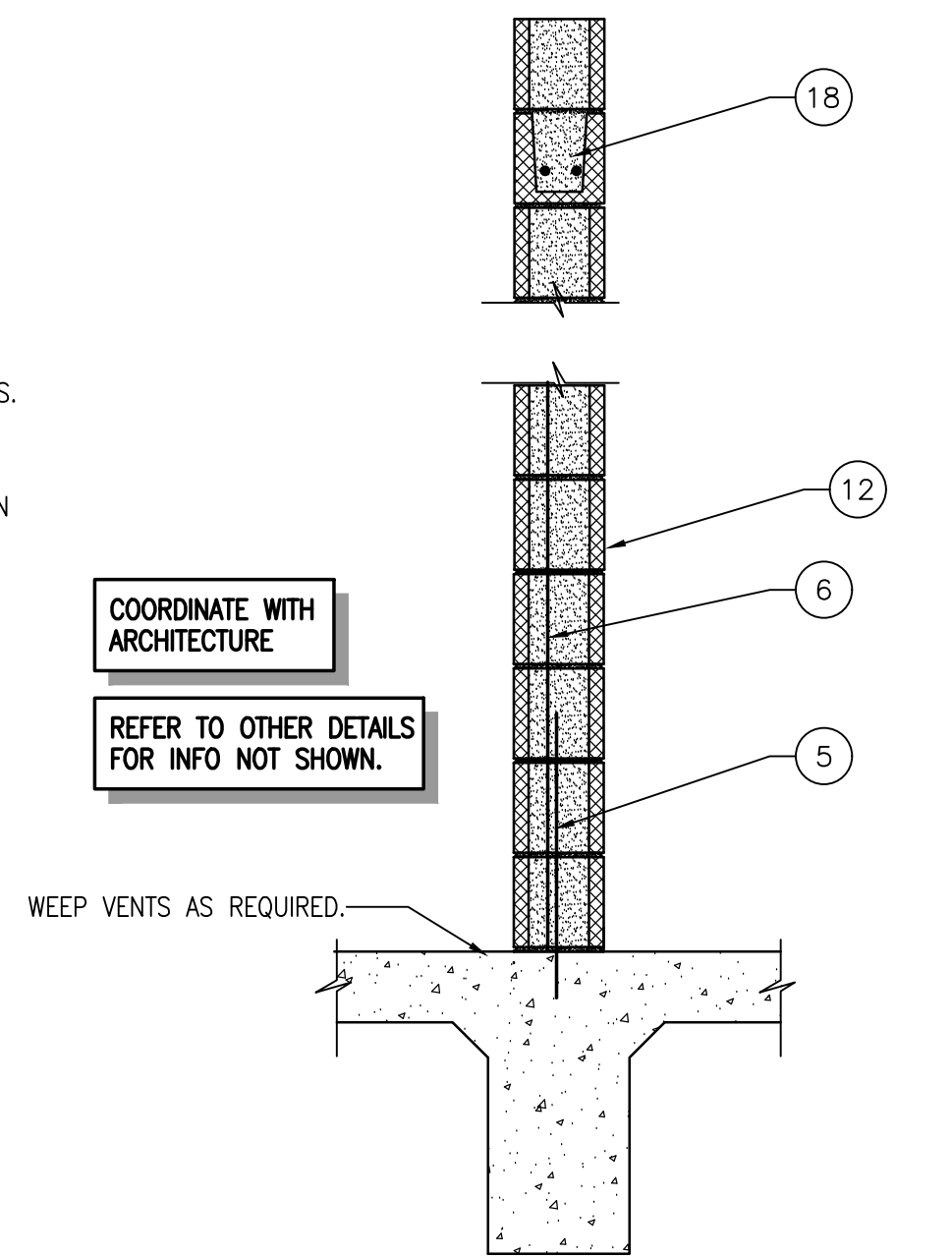
- NOTES:
1. OUTSIDE BARS EXTEND AROUND CORNER, INSIDE BARS EXTEND AS FAR AS POSSIBLE & BEND INTO CORNER CELL.
2. WHERE SINGLE LAYER OF REINF OCCURS, BEND REINF AS SHOWN FOR OUTSIDE BARS.
3. WHERE LADDER TYPE HORIZONTAL REINFORCING IS SPECIFIED, USE FACTORY PREFABRICATED CORNER JOINT REINFORCEMENT OVERLAPPING LADDER REINF. BY SIX INCHES.



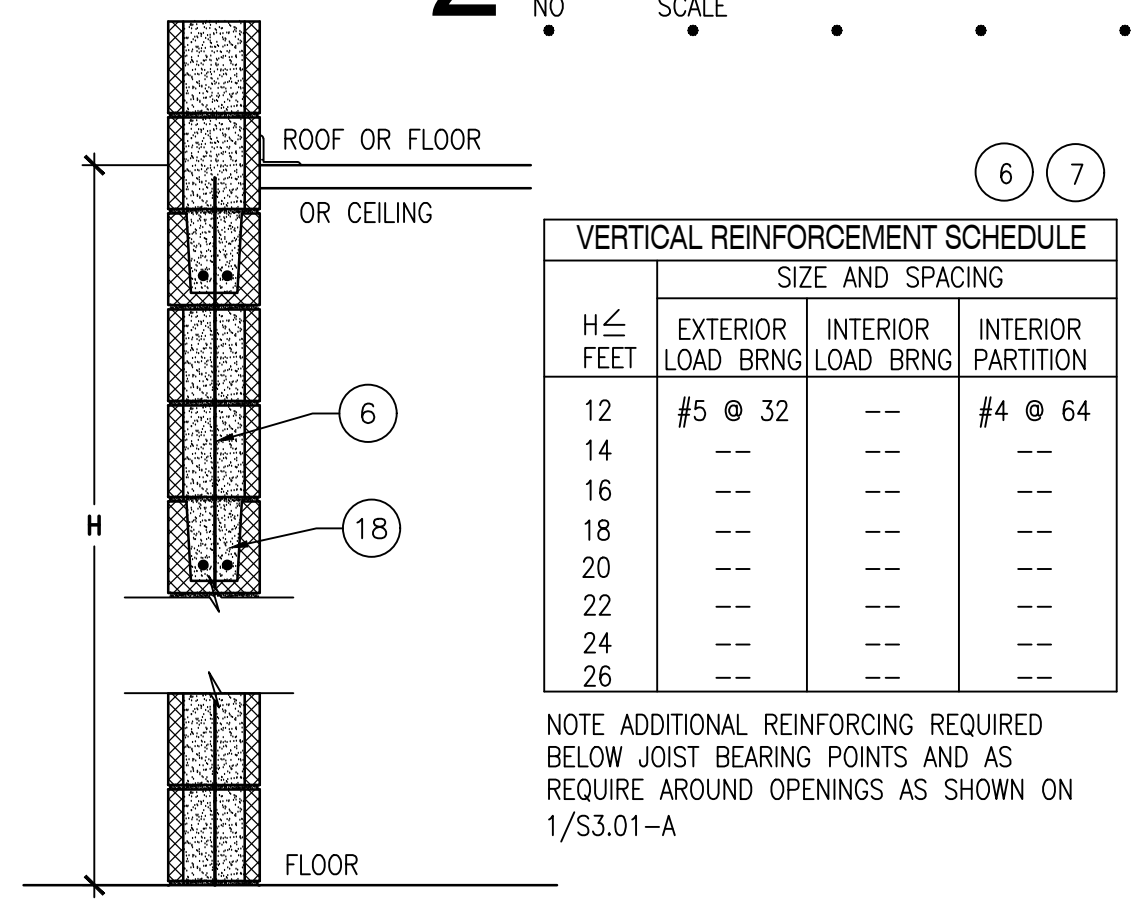
7 CMU WALL CORNER
TYPICAL DETAIL
NO SCALE

REINFORCING NOTES: MASONRY WALL

- ONE VERTICAL BAR MATCHING WALL REINFORCING.
- REFER TO MASONRY LINTEL SCHEDULE FOR SIZE & REINFORCING.
- SILL BARS; (2) #4 IN BOND BEAM.
- (1) #4 EACH SIDE.
- PROVIDE DOWEL SIZE AND QUANTITY TO MATCH VERTICAL WALL REINFORCING BARS. DRILL & EPOXY GROUT 6" INTO CONCRETE.
- UNLESS NOTED OTHERWISE VERTICAL WALL REINFORCEMENT SHALL BE AS SCHEDULED. ADDITIONAL REINFORCEMENT AT OPENINGS AND CORNERS AS SHOWN.
- REFER TO STRUCTURAL AND ARCHITECTURAL PLANS FOR ADDITIONAL REINFORCING REQUIREMENTS BELOW POINT LOADS OR AT OTHER LOCATIONS.
- FULLY GROUT CELLS WHERE DISTANCE IS 2'-0" OR LESS.
- ONE VERTICAL BAR EACH SIDE OF CONTROL JOINT. MATCH SCHEDULED WALL REINFORCING.
- ALL REINFORCING SHOWN IS IN ADDITION TO VERTICAL WALL REINFORCEMENT.
- VERTICAL REINFORCING SHALL BE GROUT FILL CELLS.
- REFER TO GENERAL NOTES FOR REQUIRED HORIZONTAL REINFORCEMENT.
- REFER TO PLAN FOR LOCATION OF CONTROL JOINTS. PROVIDE CONTROL JOINTS AT 24'-0" ON CENTER MAXIMUM U.N.O.
- USE VERTICAL BAR POSITIONERS AT 160Bd (6'-8" MAXIMUM).
- HORIZONTAL REINFORCEMENT SHALL BE PLACED IN BOND BEAM BLOCKS.
- HORIZONTAL REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONTROL JOINTS.
- PROVIDE HORIZONTAL JOINT REINFORCEMENT AT FIRST JOINT ABOVE AND BELOW OPENINGS AND EXTEND 1'-0" BEYOND THE OPENING.
- BOND BEAM WITH (2) #4'S AT 8'-0" O.C. MAX AND WHERE REQUIRED ELSEWHERE.



6 TYPICAL WALL
SECTION
NO SCALE



6 VERTICAL REINFORCEMENT
SCHEDULE
NO SCALE

F. CONCRETE MASONRY UNITS

- STRUCTURAL CONCRETE MASONRY TO BE IN ACCORDANCE TO BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES AC308-99/ASCE 5-98/TMS 402-99, SPECIFICATION FOR MASONRY STRUCTURES AC308.1-99/ASCE 6-99/TMS 602-99, AND AC108.1-76, 1983 SPECIFICATIONS FOR CONCRETE MASONRY CONSTRUCTION.
- HOLLOW CONCRETE MASONRY UNITS TO BE LIGHT OR NORMAL WEIGHT, GRADE N, TYPE 1 MEETING THE REQUIREMENTS OF ASTM C90. CONCRETE MASONRY UNITS TO BE MOISTURE CONTROLLED, TYPE 1 WITH A MINIMUM NET-AREA COMPRESSIVE STRENGTH OF 1,500 PSI.
- PROVIDE MASONRY MORTAR MEETING THE REQUIREMENTS OF ASTM C270 OR ASTM C476. THE MINIMUM 28-DAY MORTAR COMPRESSIVE STRENGTH SHALL BE 1,800 PSI.
- PROVIDE MASONRY GROUT WITH MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI WHEN TESTED IN ACCORDANCE WITH ASTM C1019. GROUT TO MEET THE MINIMUM REQUIREMENTS SPECIFIED IN ASTM C476.
- PROVIDE HORIZONTAL JOINT REINFORCING IN WALLS ABOVE GRADE AT 16" ON CENTER VERTICAL SPACING AND IN WALLS BELOW GRADE AT 8" ON CENTER VERTICAL SPACING. JOINT REINFORCING TO BE NO. 9 GAGE LADDER TYPE WITH CROSS TIES AT 18" ON CENTER. GALVANIZED WITH 0.5 OUNCE ZINC COATING.
- LAY HOLLOW UNITS WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. BED WEBS, WHERE THEY ARE ADJACENT TO CELLS, TO BE REINFORCED OR FILLED WITH GROUT. CELLS WHICH CONTAIN REINFORCING STEEL SHALL BE FILLED SOLIDLY WITH 2,500 PSI CONCRETE OR GROUT, INCLUDING BOND BEAMS, LINTELS, AND PILASTERS.
- VERTICAL CELLS TO BE FILLED WITH GROUT TO BE ALIGNED TO PROVIDE A CONTINUOUS UNOBSTRUCTED OPENING OF THE DIMENSIONS SHOWN ON DRAWINGS. GROUT TO BE CONSOLIDATED BY VIBRATION OR OTHER METHODS TO ENSURE COMPLETE FILLING OF CELLS.
- REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF CONTROL JOINTS UNLESS NOTED OTHERWISE.
- INSTALL ANCHORS, ACCESSORIES, AND OTHER ITEMS TO BE BUILT IN AS WORK PROGRESSES.
- SPlice VERTICAL REINFORCING A MINIMUM OF 48 BAR DIAMETERS OR 24", WHICHEVER IS GREATER.
- FIELD DRILLED EXPANSION BOLTS TO BE KWK BOLT, BY HLT, INC., OR WEJ-T BOLTS, BY WEJ-T CORPORATION. INSTALL BOLTS IN ACCORDANCE WITH THE CURRENT ICBO REPORT FOR THE BOLT AND THE RECOMMENDATIONS OF THE MANUFACTURER.
- FIELD DRILLED MASONRY ANCHORS TO BE HIT HY20 INJECTION ADHESIVE ANCHOR SYSTEM, BY HLT, INC., OR APPROVED EQUAL. INSTALL ANCHORS IN ACCORDANCE WITH THE CURRENT ICBO REPORT FOR THE ANCHOR AND THE RECOMMENDATIONS OF THE MANUFACTURER.
- ALL CUTTING AND FITTING OF MASONRY SHALL BE DONE BY MASONRY MECHANICS WITH MASONRY SAWS.
- TOLERANCES FOR PLUMBNESS OF MASONRY WALLS OR COLUMNS SHALL BE $\pm 1/4"$ IN 10 FEET, $\pm 3/8"$ IN 20 FEET, AND $\pm 1/2"$ MAXIMUM. THEY SHALL ALSO MAINTAIN TRUE TO LINE WITHIN THE SAME TOLERANCES AS VARIATIONS FROM PLUMB. EACH COARSE SHALL REMAIN LEVEL WITHIN A SLOPE OF $\pm 1/4"$ IN 10 FEET, BUT NO MORE THAN $\pm 1/2"$.
- INITIAL BED JOINT THICKNESS SHALL BE BETWEEN $1/4"$ MIN. AND $3/4"$ MAXIMUM. BED JOINT THICKNESS SHALL BE $3/8"$ $\pm 1/8"$. HEAD JOINT THICKNESS SHALL BE $3/8"$ (-1/4" TO +5/8").
- PROVIDE TEMPORARY BRACING AS REQUIRED DURING THE CONSTRUCTION PROCESS AS REQUIRED BY U.M.

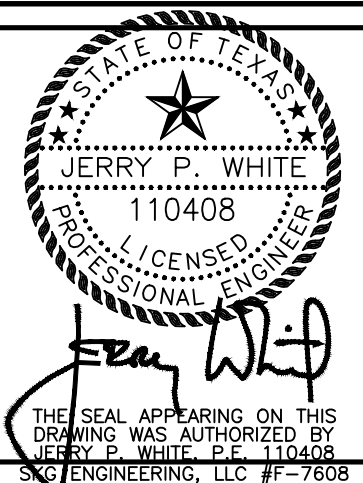
G. INSPECTIONS

- CONTRACTOR SHALL CONTACT SKG ENGINEERING TO PERFORM A STRUCTURAL STEEL INSPECTION, PRIOR TO INSTALLING INTERIOR OR EXTERIOR STUD FRAMING.
- PER SPECIFICATIONS, CONTRACTOR SHALL SUBMIT STRUCTURAL STEEL SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION, REF. SPECIFICATIONS SECTION 05102.
- CONTRACTOR IS REQUIRED TO COORDINATE WITH ALL OTHER ENTITIES THAT MAY REQUIRE INSPECTIONS (E.G. OWNER, ARCHITECT, CITY OF SAN ANGELO INSPECTIONS DEPT., ETC.)

Revised

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• SKG ENGINEERING
• POWER SYSTEMS
• MECHANICAL ENGINEER
• STRUCTURAL ENGINEER
• SKG ENGINEERING

kinney • franke
ARCHITECTS AIA
37b concho • san angelo, texas • 76903
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RIO CONCHO COMMUNITY CITY PARK
TEXAS BANK SPORTS COMPLEX
CONCESSION BUILDING #2
City of San Angelo, Texas

Project No. 250-02-0516

Date September 14, 2016

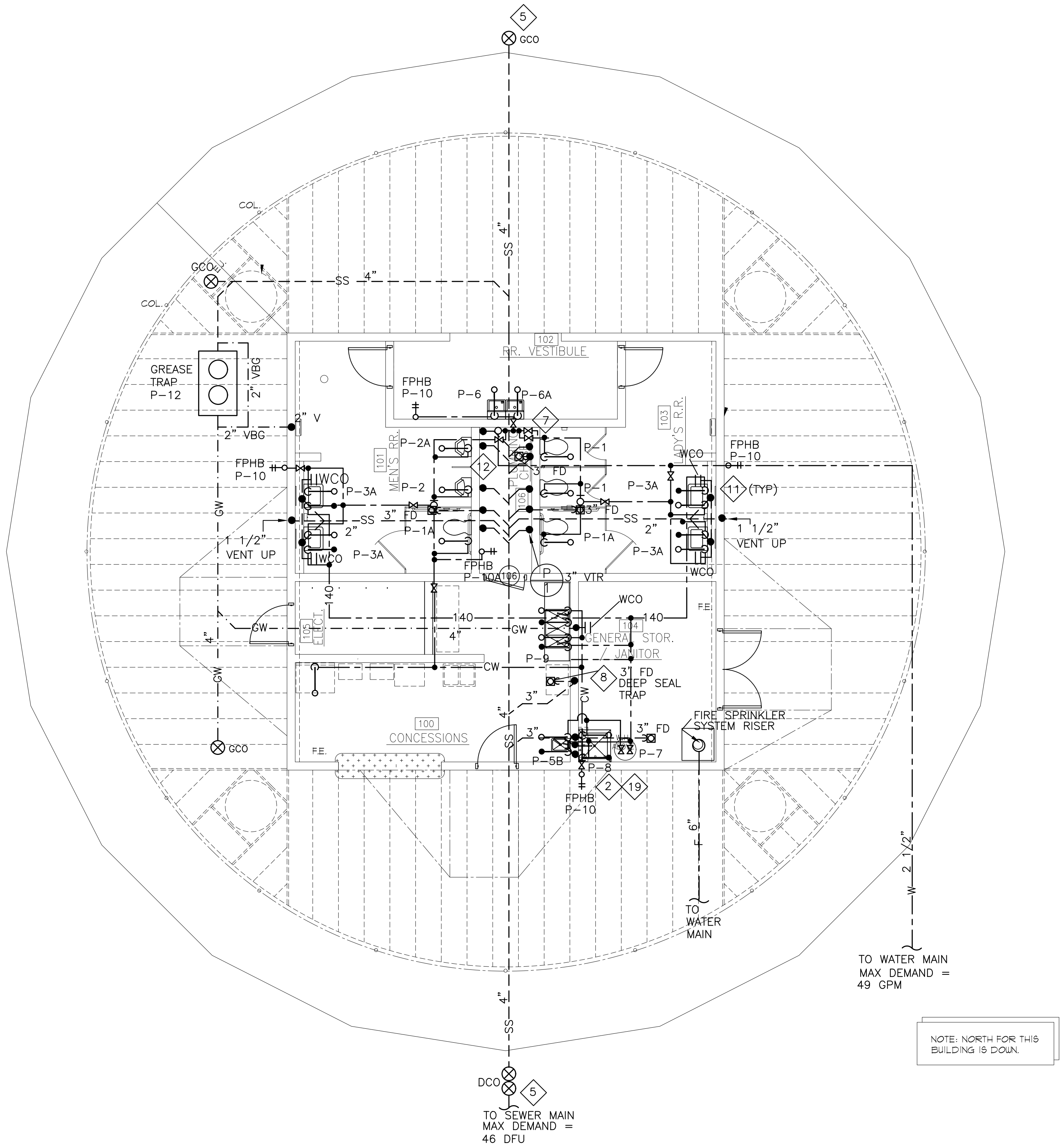
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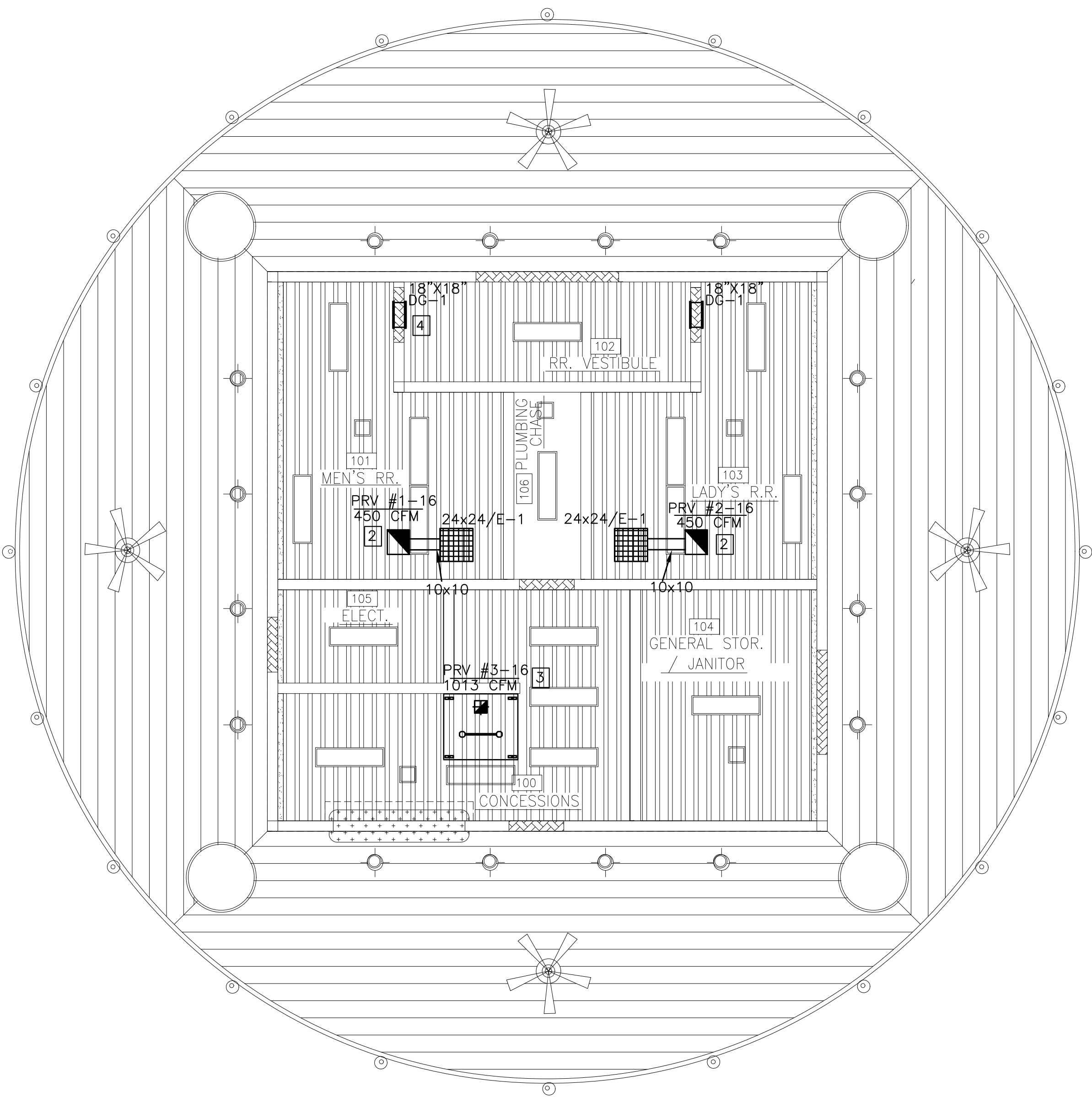


PLUMBING PLAN

PLUMBING NOTES INDICATED BY "◇":

1. PROVIDE PHYSICAL PROTECTION FOR EQUIPMENT OUTSIDE BUILDING.
2. SET WATER HEATER AT 140 DEG F. INSTALL ON PLATFORM ON FLOOR NEXT TO MOP SINK.
3. CONTRACTOR IS RESPONSIBLE TO INSURE ALL PLUMBING SYSTEMS AND EQUIPMENT ARE OPERATIONAL AT COMPLETION OF PROJECT.
4. DO NOT SCALE DRAWINGS. FIELD VERIFY FIXTURE AND UTILITY LINE LOCATIONS.
5. LOCATE CLEANOUTS BEYOND PEDESTRIAN WALK WAYS.
6. BACKFLOW PREVENTER REQUIRED ON HOSE BIBBS AND MOP SINKS.
7. PROVIDE MEANS TO DRAIN ALL SUPPLY LINES ON PROJECT.
8. FILL WITH VEGETABLE OIL.
9. PROVIDE SUPPLY STOPS AT EACH FIXTURE RISER. ALL EXPOSED LINES TO BE CHROME PLATED.
10. GENERAL CONTRACTOR AND PLUMBING CONTRACTOR SHALL VERIFY ALL REQUIREMENTS OF THIS PROJECT BEFORE BIDDING AND PROCEEDING WITH WORK.
11. PROVIDE WATTS MODEL USG-B THERMOSTATIC MIXING VALVE AT ALL HANDWASHING FIXTURES. PROVIDE CHECKSTOPS, LIMIT SET AT 110° F.
12. ALL WATER SERVICES TO HAVE PRESSURE REDUCING VALVE SET AT 80 PSI. IF CITY WATER PRESSURE EXCEEDS 80 PSI.
13. REFER TO SHEET MP-1 FOR PLUMBING FIXTURE SPECIFICATIONS.
14. INSULATE WATER LINES PER SPECS.
15. INSTALL WATER HAMMER ARRESTORS PER ANSI A112.
16. VERIFY WATER AND WASTE REQUIREMENTS WITH THE CITY OF SAN ANGELO. CONTACT JOE MANGREM AT 325-657-4547 FOR CHARGES AND FEES. THIS PROJECT WILL HAVE FEES FOR WATER AND SEWER SERVICES.
17. WATER HEATER TO BE STATE WITH 6 YEAR WARRANTY.
18. CONTACT LOCAL UTILITIES FOR APPLICABLE FEES, PERMITS AND CHARGES FOR THIS PROJECT.
19. INSTALL OATEY MODEL 34082 METAL DRAIN PAN UNDER WATER HEATER. ROUTE PRESSURE AND RELIEF VALVE DRAIN TO MOP SINK.
20. SEAL ALL PENETRATIONS OF RATED WALLS ACCORDING TO CODE WITH APPROVED MATERIALS.
21. PROVIDE CLEANOUTS EVERY 50' INSIDE BUILDINGS; EVERY 100' OUTSIDE.
22. ALL FAUCETS TO BE SUPPLIED WITH BRASS STEMS.
23. INCREASE VTR'S PER LOCAL CODES AND FROST REQUIREMENTS.
24. LICENSED IRRIGATOR SHALL EFFECT REPAIRS TO DAMAGED SPRINKLER SYSTEM.

MECHANICAL/PLUMBING PLAN - COMPLEX #2
SCALE: 3/16" = 1'-0"



MECHANICAL PLAN

MECHANICAL NOTES INDICATED BY "□":

1. EXHAUST FANS ABOVE CEILING FOR BATHROOMS TO OPERATE CONTINUOUSLY. SWITCH WITH BREAKER. MEN'S RESTROOM EXHAUST BASED ON 2 CFM/SQ. OR 1 AIR CHANGE EVERY 5 MINUTES. WOMEN'S RESTROOM EXHAUST BASED ON 2 CFM/SQ. FT. OR 1 AIRCHANGE EVERY 5 MINUTES.
2. 10"x10" EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FAN. PROVIDE OFFSET AND TRANSITION AS REQUIRED. BATH EXHAUST DUCTS & REGISTERS TO BE ALUMINUM.
3. FURNISH VENT HOOD AND EXHAUST FAN PRV #3-16. REFER TO SHEET MP-4 FOR DETAILS. KITCHEN HOOD EXHAUST DUCT SHALL BE WELDED, BLACK IRON. MAINTAIN 18" CLEARANCE TO COMBUSTIBLES OR PROVIDE 1-HOUR RATED ENCLOSURE FOR DUCT.
4. REFER TO ARCHITECTURAL FOR DOOR GRILLE SPECIFICATIONS AND DETAILS FOR RESTROOM DOORS.

MEP PROJECT #1618

Power Systems

P.O. Box 2863
San Angelo, Texas 76902
325-659-2235
FIRM NO. P-0257

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ORDINANCES

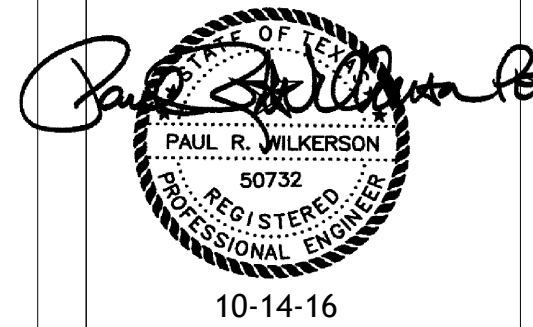
THIS DRAWING IS REPRESENTATIVE IN NATURE ONLY. ALL WORK SHALL BE INSTALLED
IN ACCORDANCE WITH ALL STATE, COUNTY, MUNICIPAL AND FEDERAL LAWS AND/OR
ORDINANCES GOVERNING THE PROJECT. IF IN ANY MANNER THE PLANS AND SPEC-
IFICATIONS ARE IN DIRECT CONFLICT WITH SUCH LAWS AND/OR ORDINANCES, THE LAWS
AND/OR ORDINANCES SHALL HAVE JURISDICTION.



Revised

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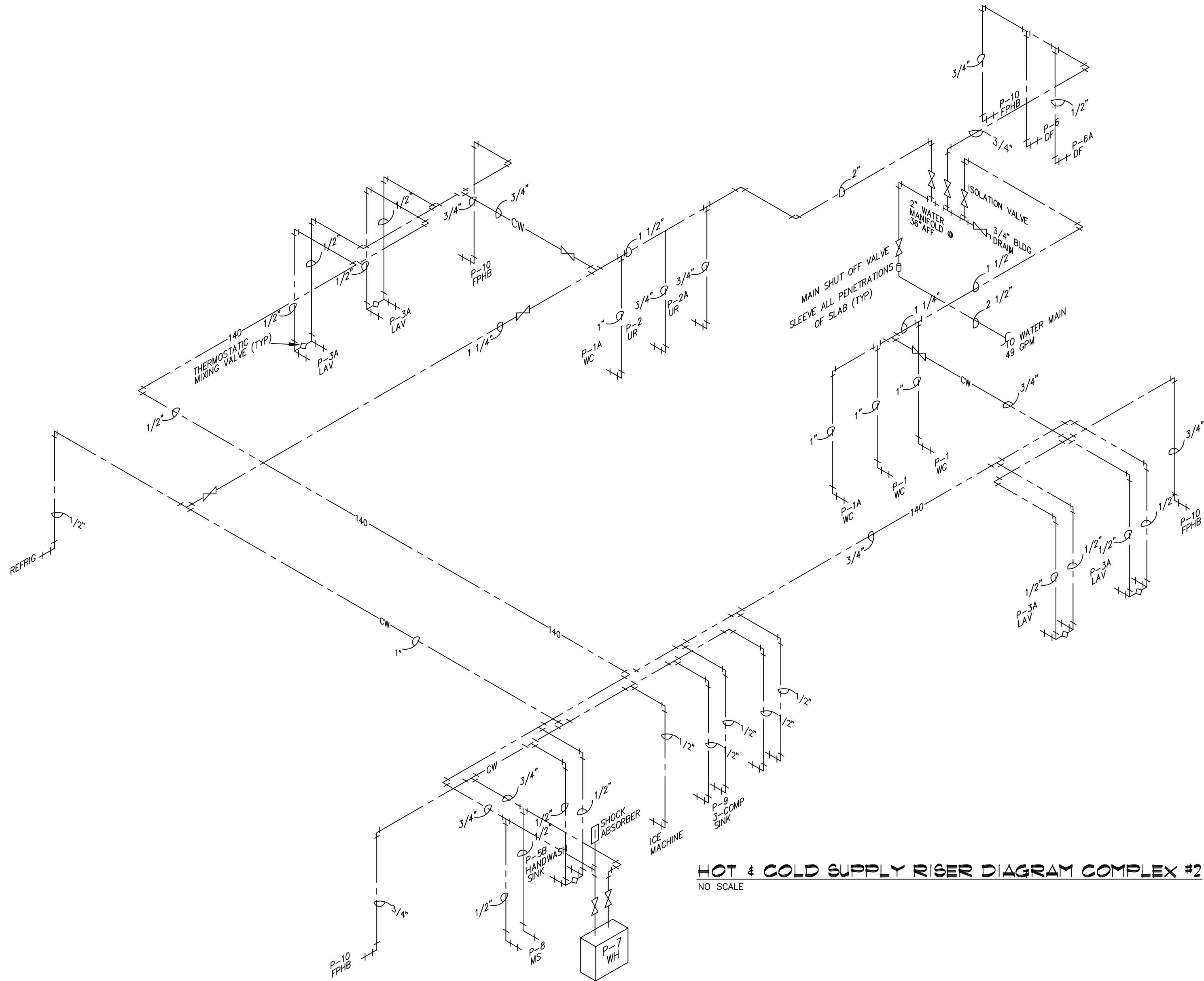
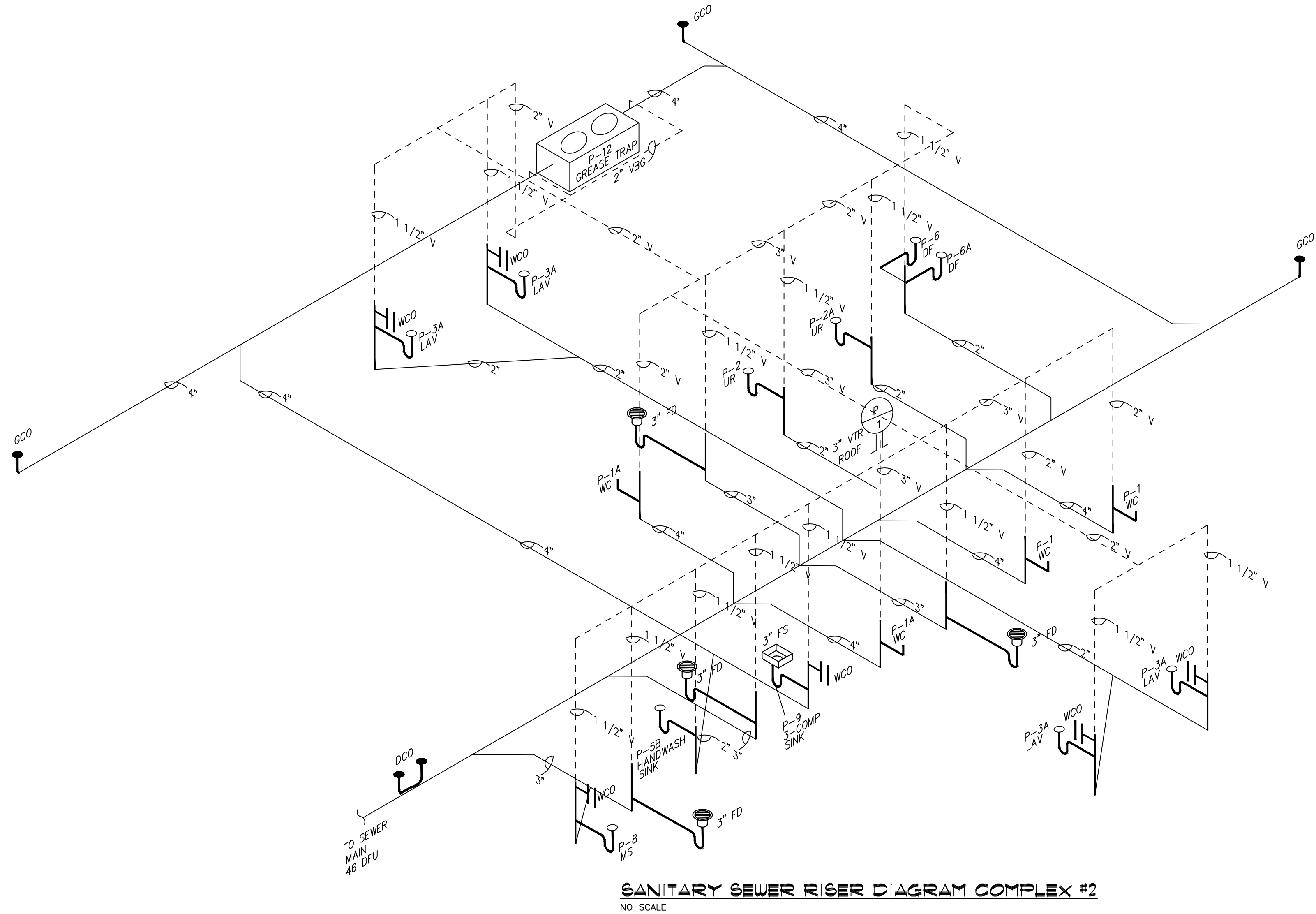


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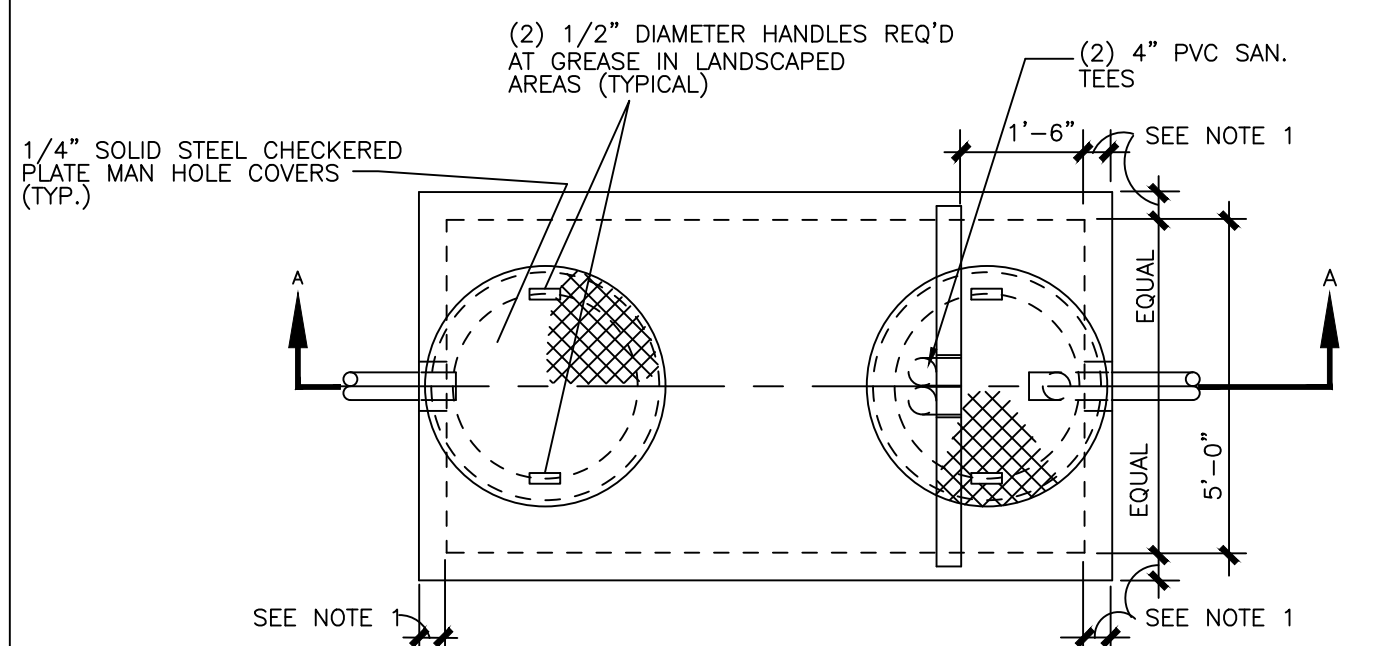
Date SEPTEMBER 14, 2016

Sheet Number
MP-2
3 OF 9



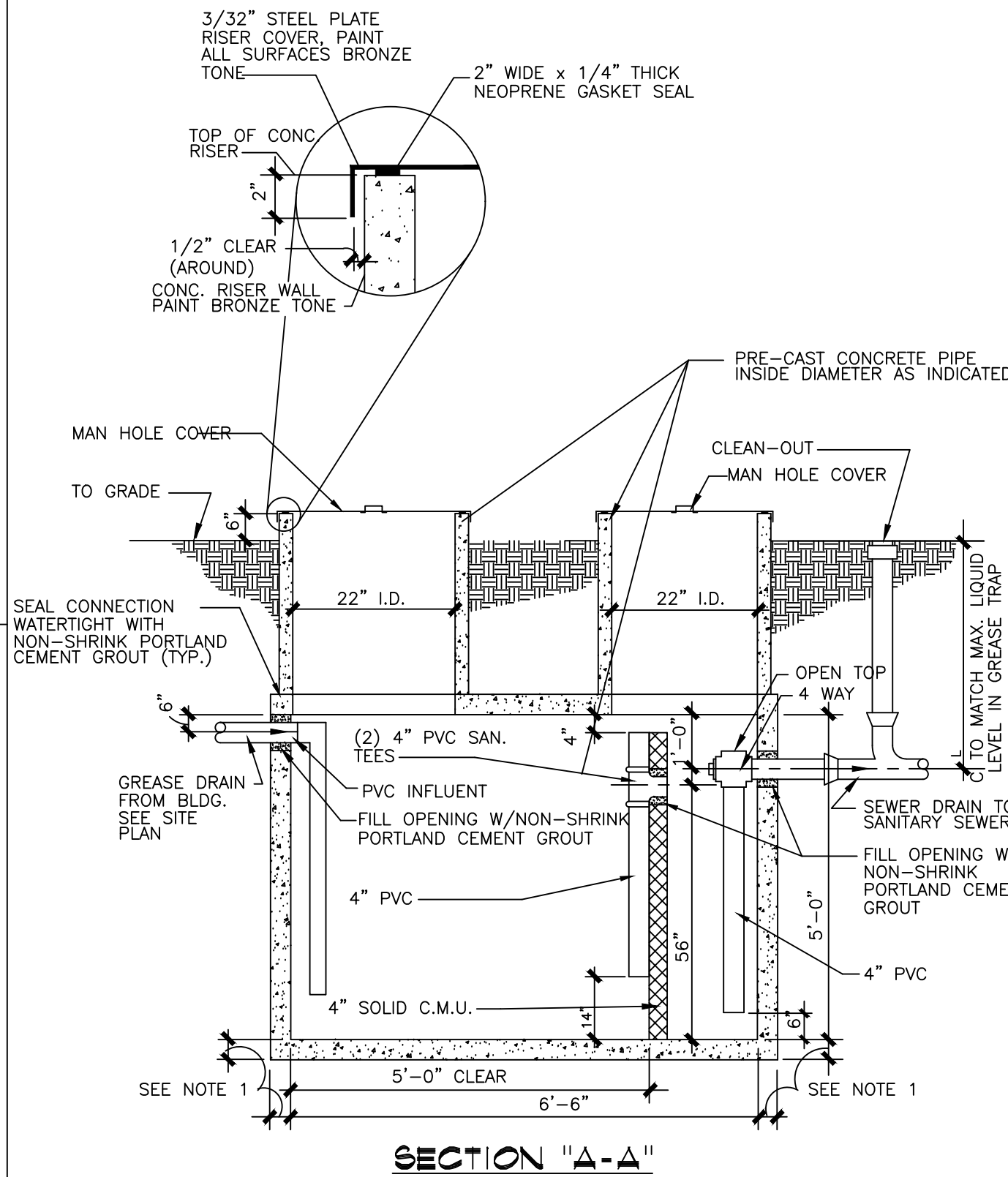
PLUMBING RISER DIAGRAMS & MECHANICAL DETAILS

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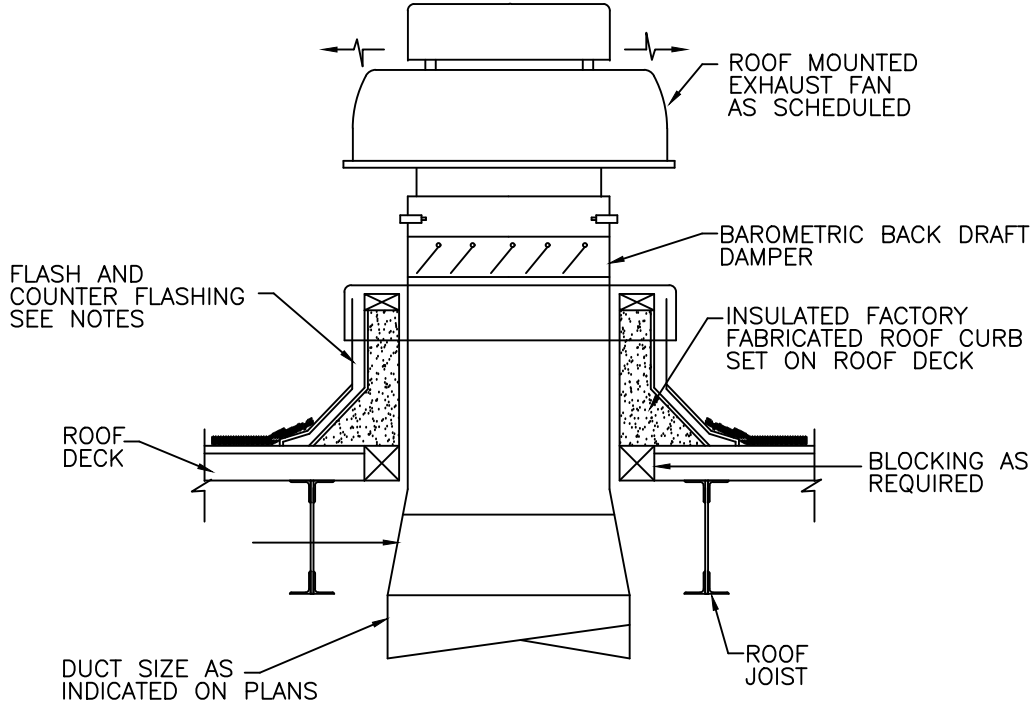


NOTES:

- GREASE TRAP SHALL BE ENGINEER DESIGNED TO RESIST ALL LATERAL LOADS & TRAFFIC LOADING AS APPLICABLE.
- IF PRE-FAB SEPTIC TANK IS USED, THEN TANK SHALL BE MODIFIED TO MEET ALL DETAILS & OPENINGS & NOTES.
- SUBMIT GREASE TRAP SHOP DRAWINGS TO OWNER/FRANCHISEE FOR APPROVAL. SHOP DRAWINGS SHALL SHOW EXACT DIMENSIONS, WALL THICKNESSES, CONC. STRENGTH, ETC.
- GREASE TRAP INSIDE DIMENSIONS ARE APPROXIMATE & ANY CHANGES IN LENGTH x WIDTH x DEPTH SHALL BE ADJUSTED IN PROPORTIONS SHOWN.
- INSTALL 2" VENT ON INLET AND OUTLET. RUN TO BUILDING AS SHOWN ON RISER DIAGRAM.

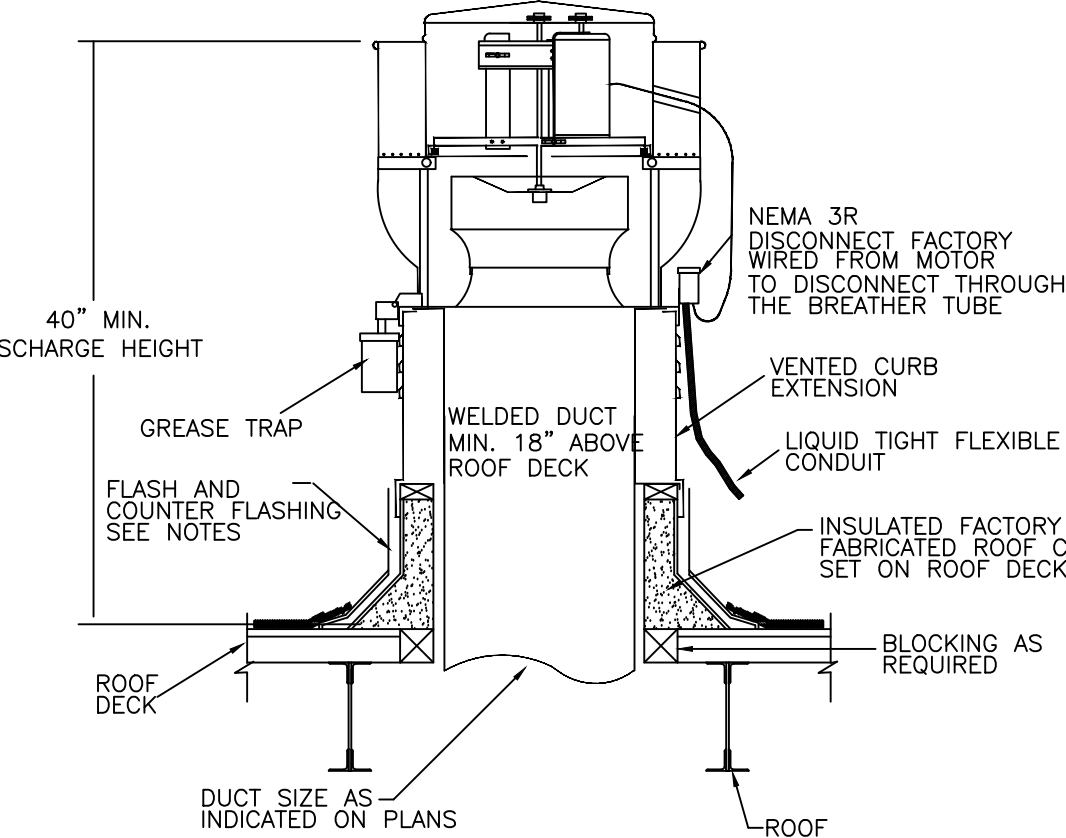
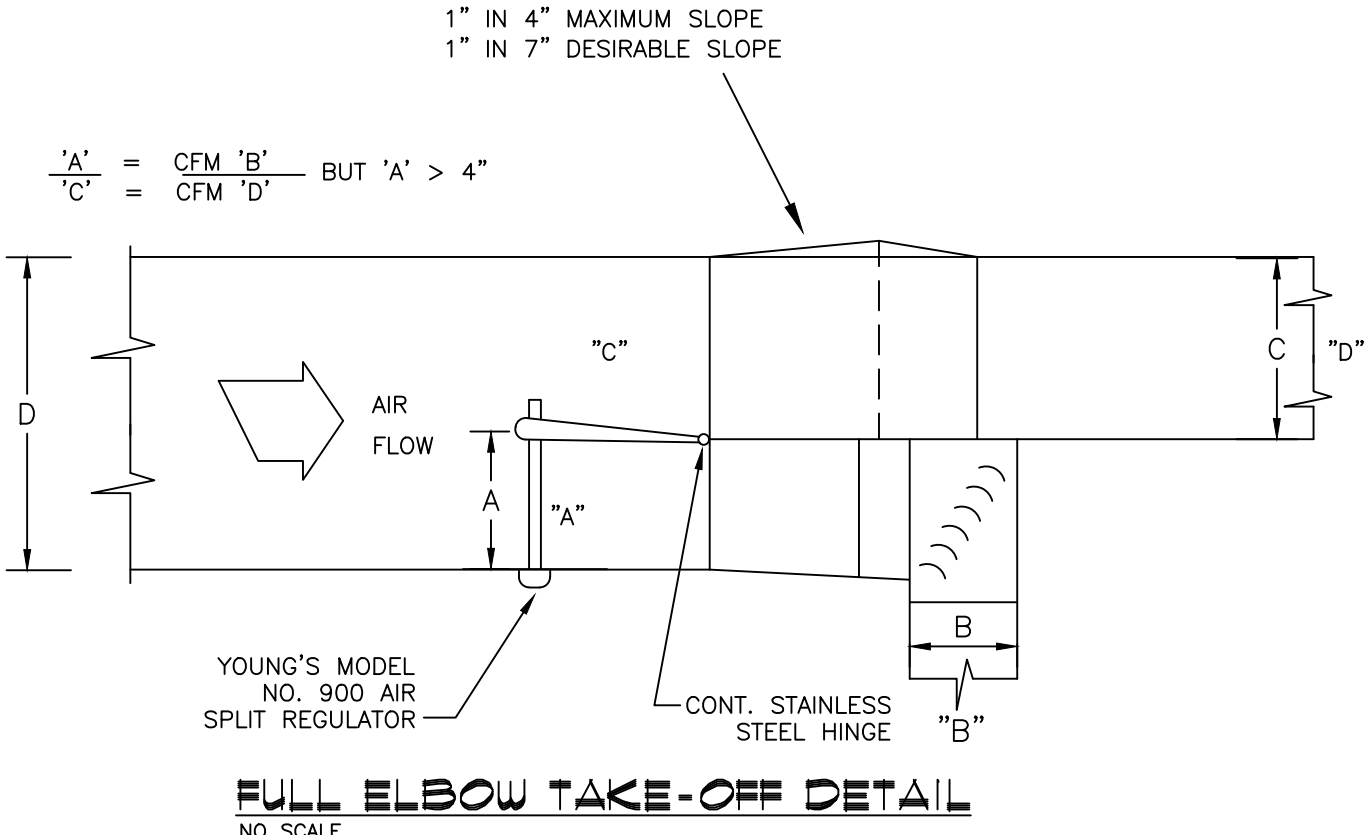
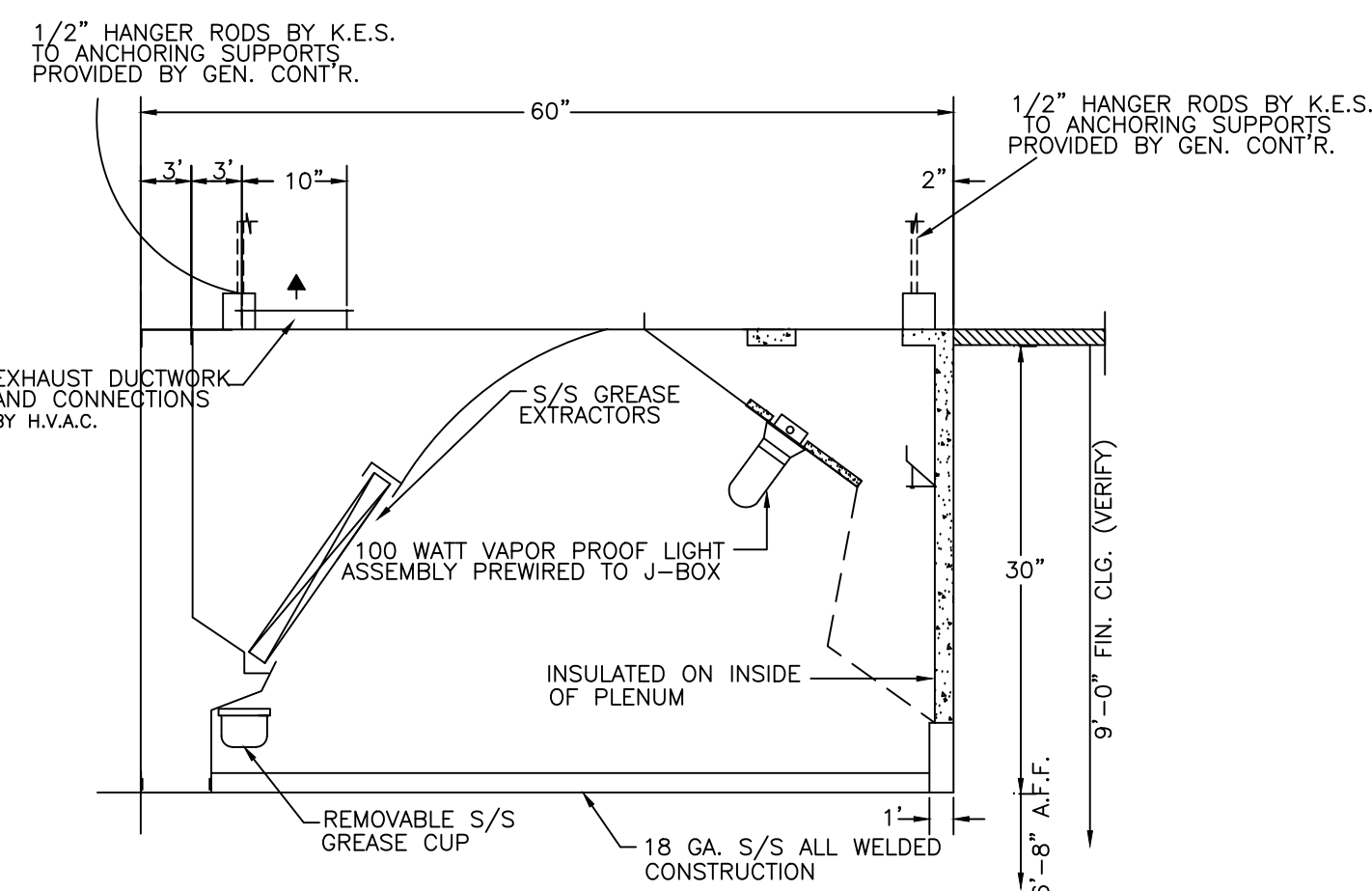


SECTION "A-A"



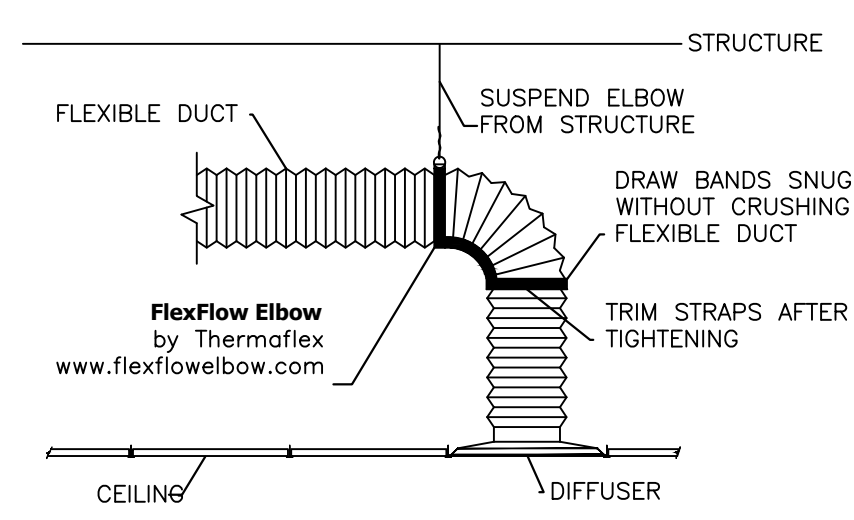
NOTES:

- PROVIDE FLASHING SUITABLE FOR BUILT-UP ROOFING.



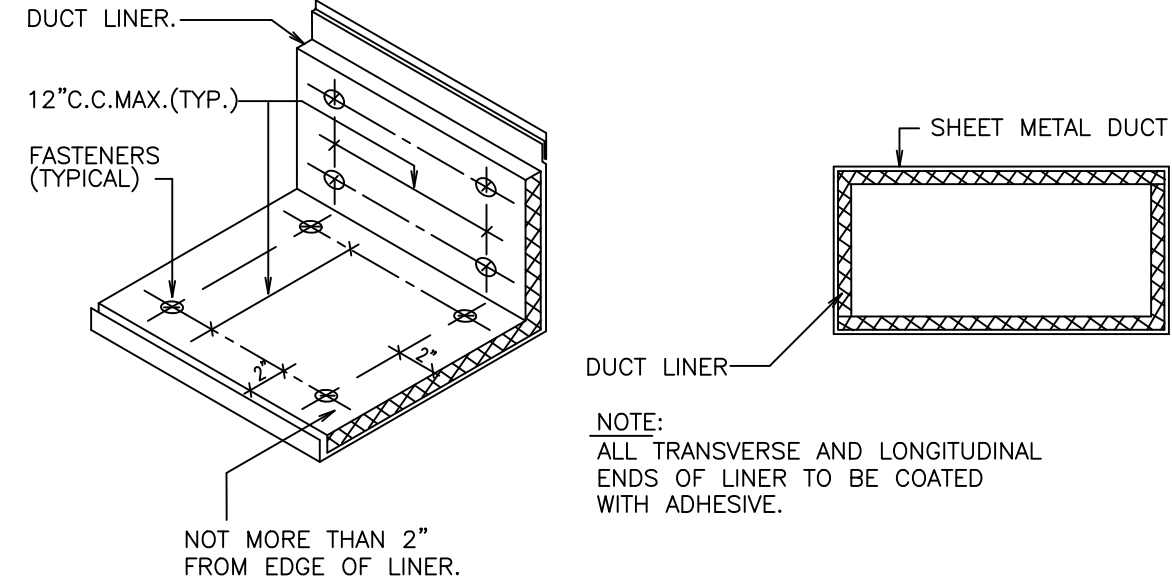
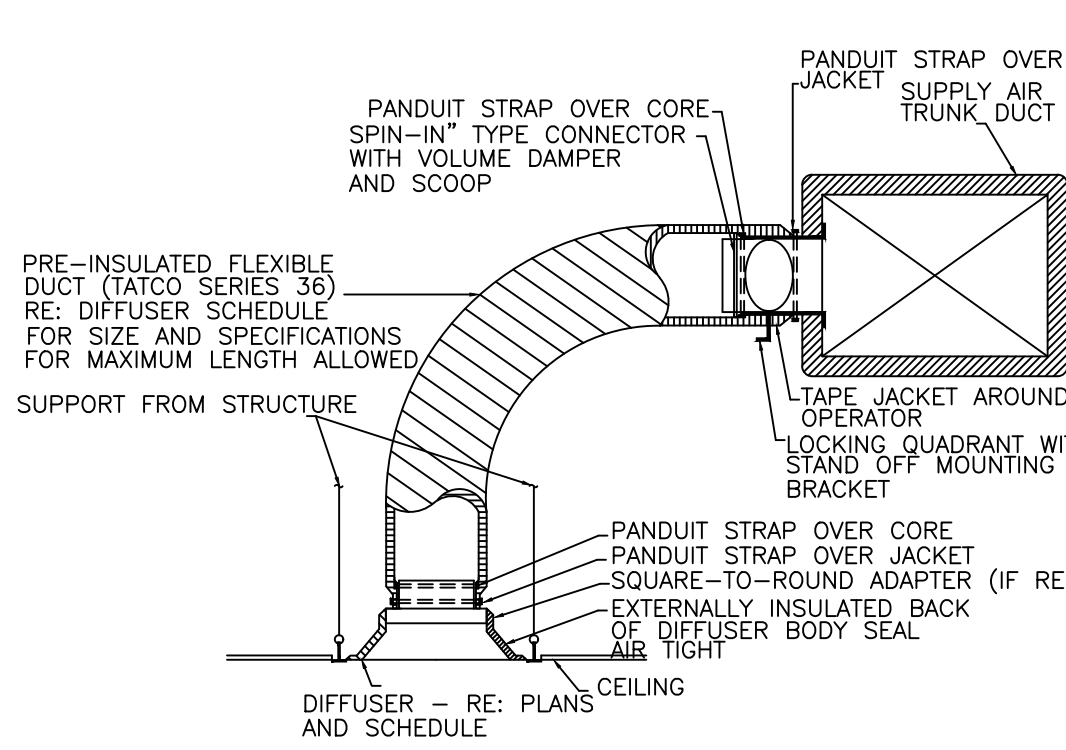
NOTES:

- PROVIDE FLASHING SUITABLE FOR BUILT-UP ROOFING.
- MIN. AIR VELOCITY IS 1500 FPM. MAX. AIR VELOCITY IS 2500 FPM.
- INSTALLATION MUST INCLUDE MEANS FOR INSPECTING, CLEANING AND SERVICING THE FAN.
- NO DAMPERS TO BE INSTALLED IN THE SYSTEM.
- CONSTRUCT 1-HOUR RATED WALL AROUND DUCT THROUGH ATTIC IF WITHIN 18" OF COMBUSTIBLE MATERIALS OR REQUIRED BY LOCAL CODES.



NOTES:

- INSTALL FLEXIBLE DUCTWORK SUPPORTS AT ALL ROUND NECK OUTLETS/INLETS UNLESS OTHERWISE NOTED ON DRAWINGS.



MEP PROJECT #1618

Power Systems

P.O. Box 2863
San Angelo, Texas 76902
325-659-2235

FIRM NO. P-0257

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ORDINANCES

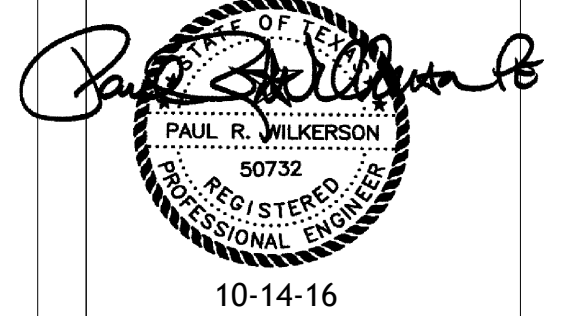
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10-14-16

RIO CONCHO COMMUNITY CITY PARK
TEXAS BANK SPORTS COMPLEX
CONCESSION BUILDING #2
City of San Angelo, Texas

Project No. 250-02-0516

Date SEPTEMBER 14, 2016

Sheet Number

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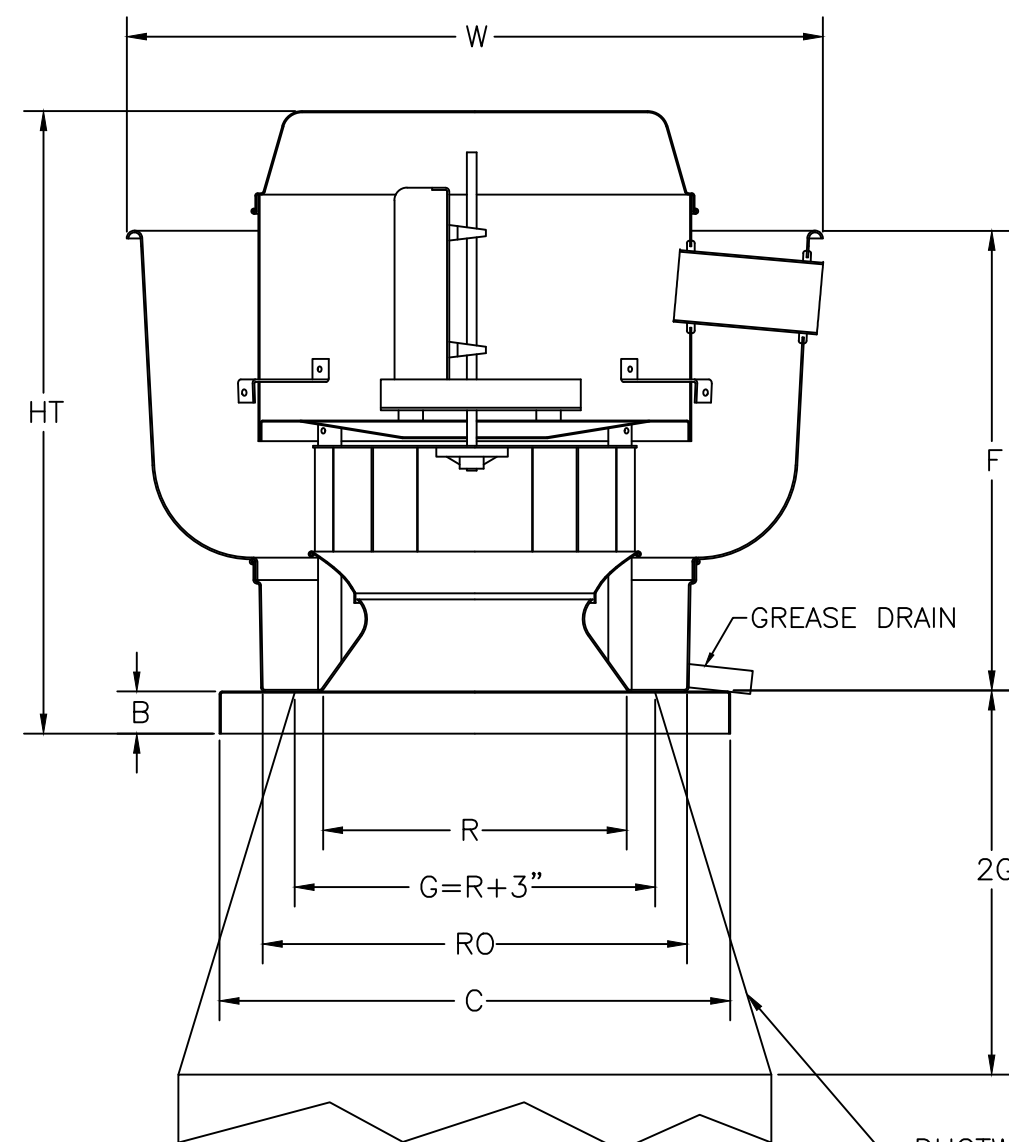
HOOD INFORMATION

HOOD NO.	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM						SUPPLY PLENUM						HOOD CONSTRUCTION	HOOD CONFIG.	
				TOTAL EXH. CFM	RISER(S)					TOTAL SUP. CFM	RISER(S)						END TO END	ROW
					WIDTH	LENG.	DIA.	CFM	S.P.		WIDTH	LENG.	DIA.	CFM	S.P.			
1	4824 ND-2	4' 6.00"Nom. 4' 6.50"OD	450 Deg.	1013	9"	9"		1013	-0.362	0					18 GA SS Where Exposed		COMPLEX #2	

HOOD INFORMATION

HOOD NO.	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)					FIRE SYSTEM PIPING	HOOD WEIGHT
	TYPE	QTY.	HEIGHT	LENGTH	QTY.	TYPE	WIRE GUARD	LOCATION	TYPE	SIZE	ELECTRICAL MODEL #	QUANTITY	LOCATION		
1	ALUM. BAFFLE WITH HANDLES AND HOOK	2 1	16" 16"	16" 20"	2	Incandescent Light	NO							YES	258 LBS.

NCAFA SERIES UPBLAST EXHAUST FANS (UL762)



NCAFA BELT DRIVE CENTRIFUGAL UP-BLAST EXHAUST FANS DIMENSIONAL DATA

FAN MODEL	HT	W	B	C	F	R	RO	WEIGHT LB
NCA08FA	25 1/4	27 1/4	2	21	18 1/2	12 1/8	16	105
NCA10FA	27 1/4	30 1/4	2	21	21 1/2	13 1/4	16	120
NCA14FA	30 1/2	33 3/4	2	24 3/4	23	14 7/8	20	140
NCA16FA	33 3/4	39 3/8	2	28	23 1/2	16 1/2	24	190
NCA18FA	33 3/8	38 7/8	2	28	29 1/2	18	24	195
NCA24FA	37 1/2	43 3/8	2	33	30 5/8	23 7/8	28	270
NCA30FA	40	52 3/4	2	40	33 1/2	24	36	410
NCA36B	49 1/2	66	2	44 1/2	47 1/2	30 3/4	36	470

FEATURES:

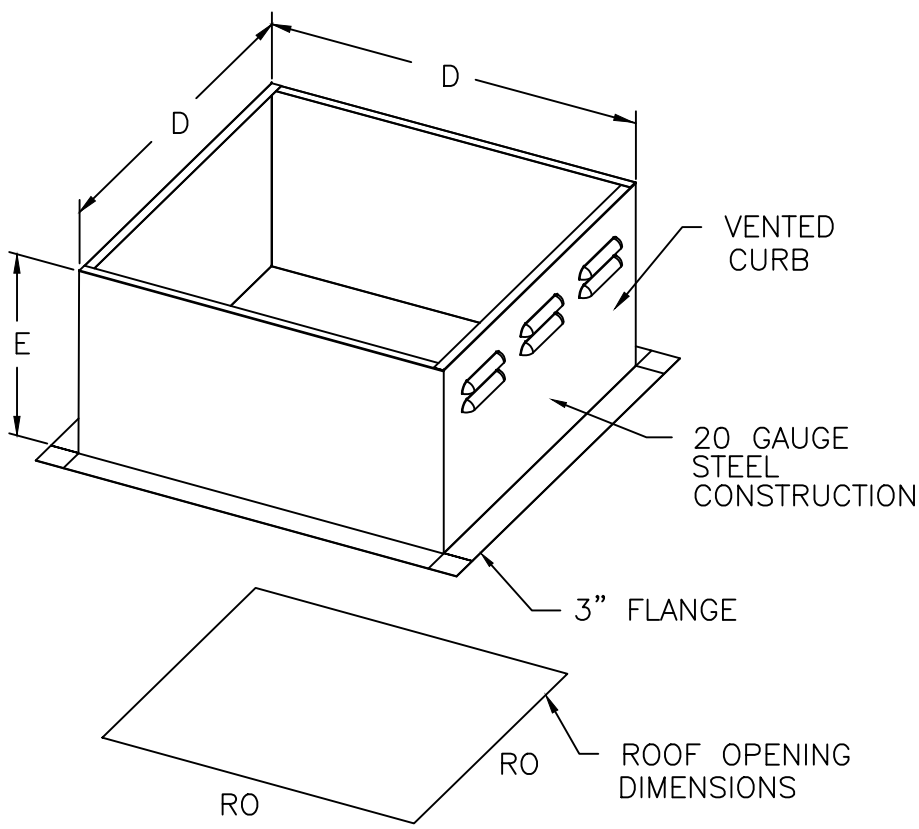
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL762
- AMCA SOUND AND AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT SWITCH
- WEATHERPROOF DISCONNECT
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS:

- GREASE BOX
- HINGED FAN
- PITCHED CURB
- INSULATED CURB



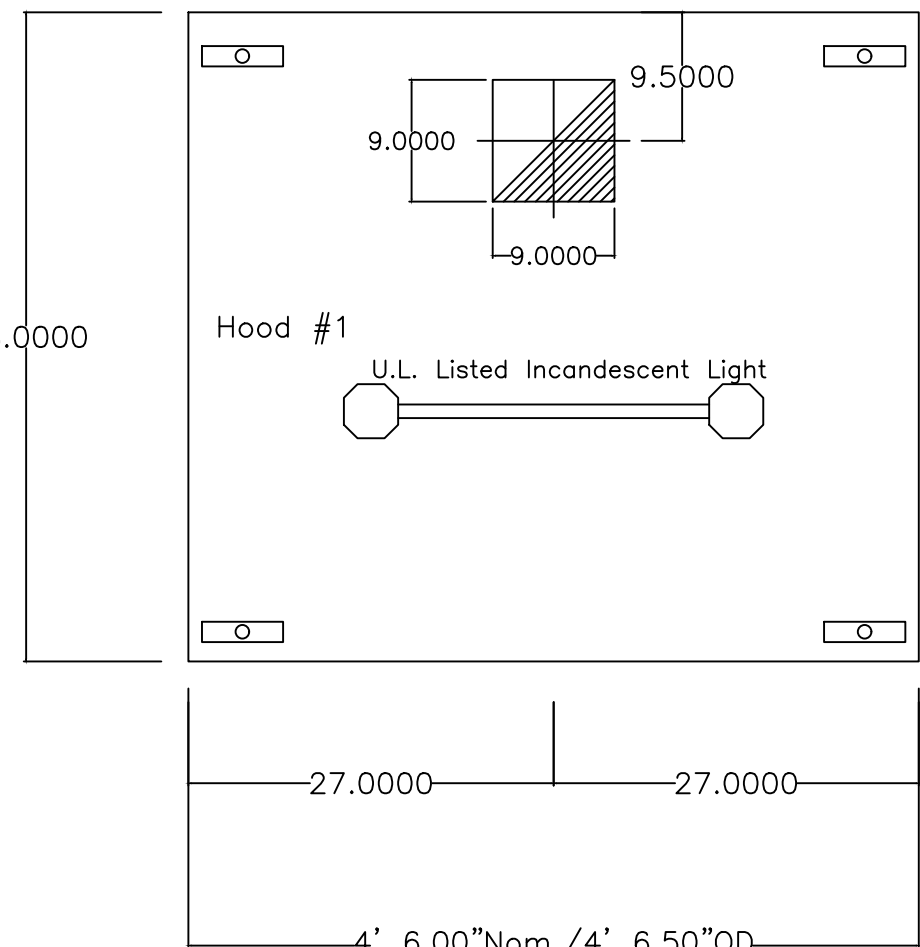
PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE

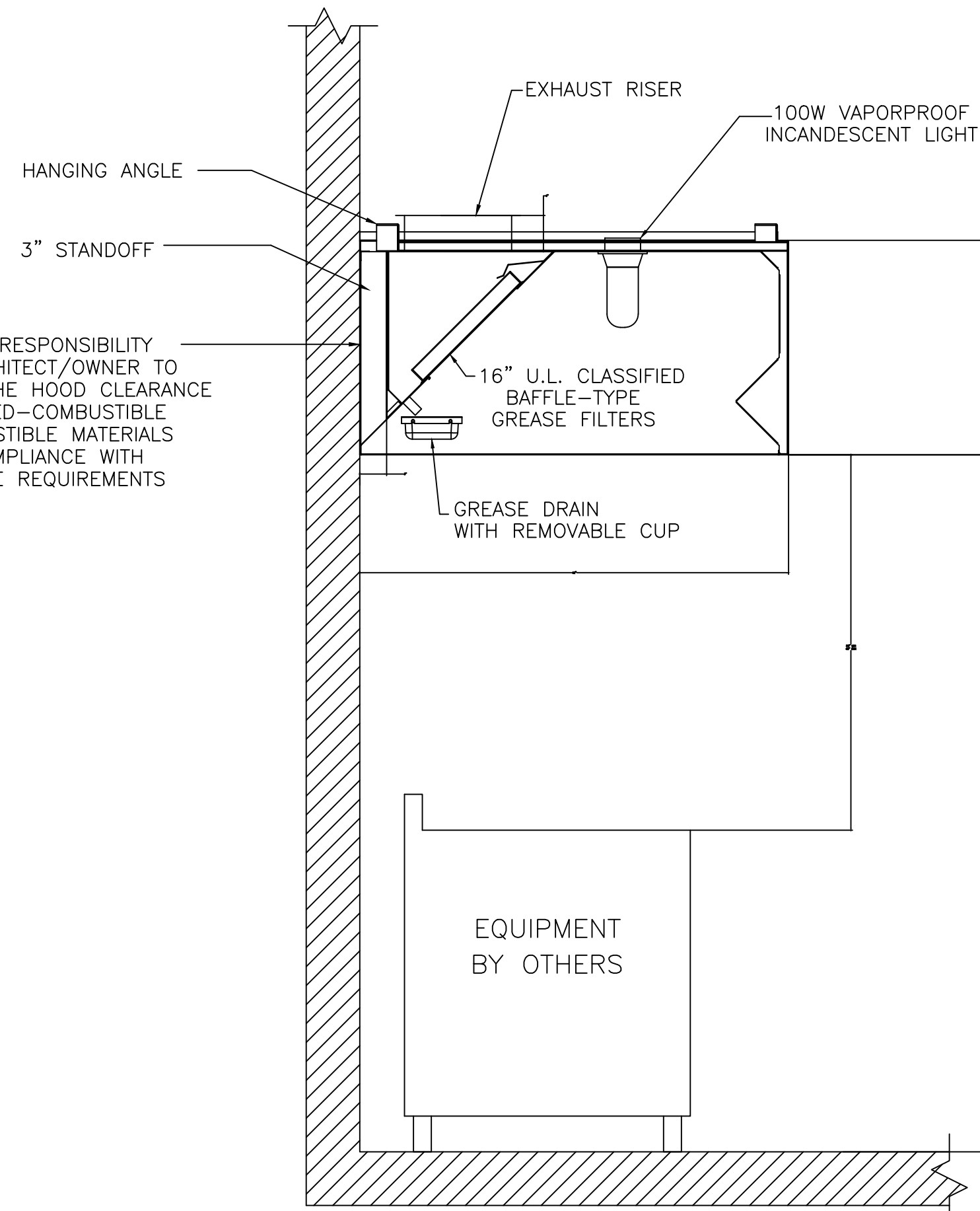
CURB DIMENSIONAL DATA

FAN MODEL	D	E
NCA08FA	19 1/2	22
NCA10FA	19 1/2	20
NCA14FA	23	20
NCA16FA	26 1/2	20
NCA18FA	26 1/2	20
NCA24FA	31 1/2	20
NCA30FA	38 1/2	20
NCA36B	43	20

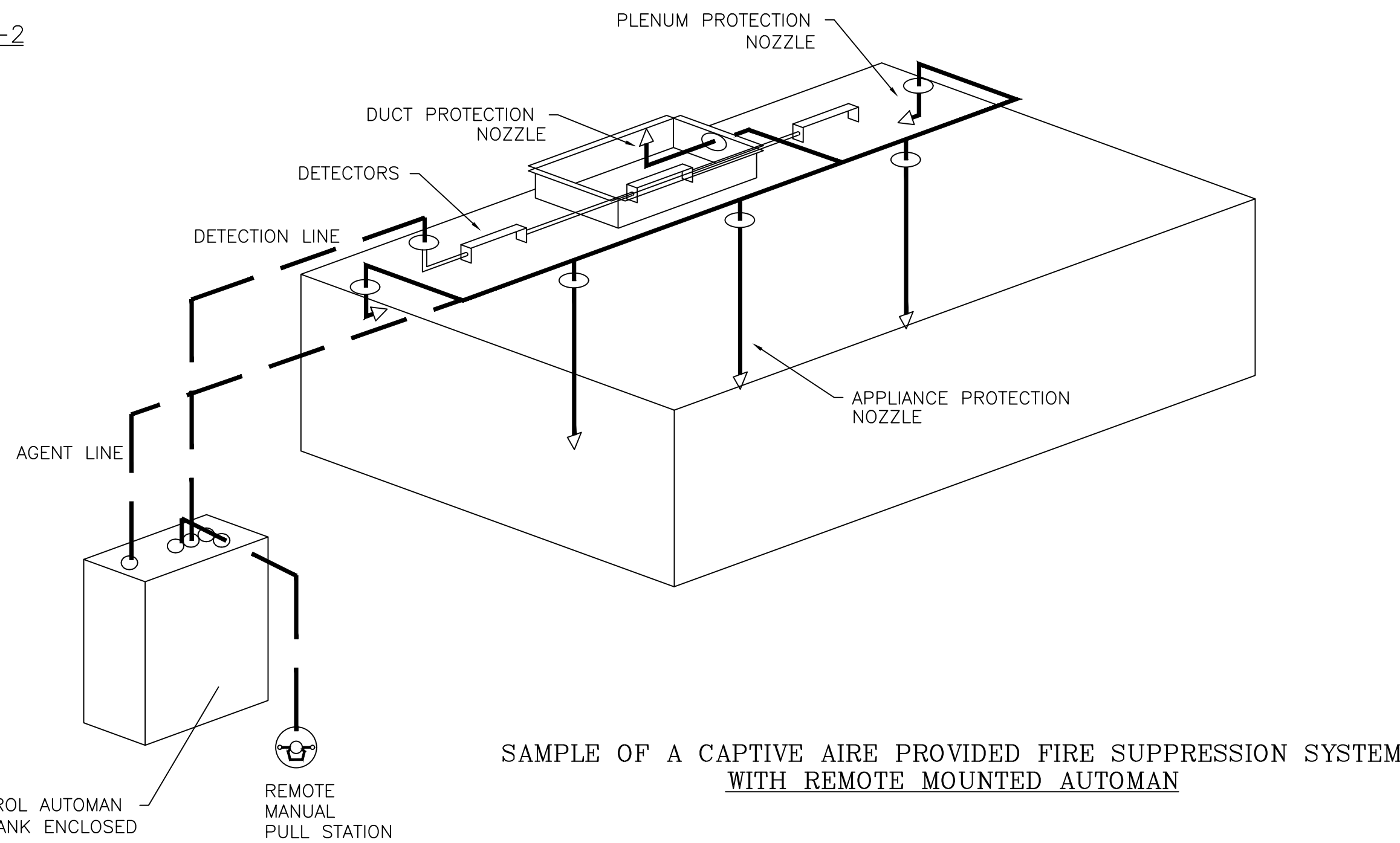
NCAFA-UL762
REV #5 06/20/2003



PLAN VIEW - 4' 6.00" LONG 4824ND-2



SECTION VIEW - MODEL 4224-ND-2



SAMPLE OF A CAPTIVE AIRE PROVIDED FIRE SUPPRESSION SYSTEM WITH REMOTE MOUNTED AUTOMAN

FOR QUESTIONS, CALL THE
SOUTH TEXAS REGIONAL OFFICE
6100 BANDERA ROAD #404" SAN ANTONIO, TX. 78238
PHONE: (210) 647-7244, (800) 948-1577
FAX: (210) 647-7166

CAPTIVE AIRE

JOB	SAN ANGELO NEW SPORTS COMPLEX		
LOCATION			
DATE	02/21/2007	JOB #	0
DWG #	SANANGELONEWS	DRAWN BY	
REV.	1.00	SCALE	8.5" x 11"

FAN INFORMATION - PRV #3-16

FAN UNIT NO.	FAN UNIT MODEL #	EXHAUST FAN									SUPPLY FAN									
		MODEL	TAG	CFM	S.P.	RPM	H.P.	Ø	VOLT	FLA	BLOWER	HOUSING	TAG	CFM	S.P.	RPM	H.P.	Ø	VOLT	FLA
1	NCA10FA	NCA10FA		1013	-0.500"	967	0.333	1	115	7.0										

FAN OPTIONS

FAN NO.	OPTION (Qty. - Descr.)
1	1 -Grease Box

CURB ASSEMBLIES

NO	ON FAN	ITEM	SIZE
1	# 1	Curb	19.500"W x 19.500"L x 20.000"H Vented Hinged

MECHANICAL HOOD DETAILS
SCALE: NONE



MEP PROJECT #1618
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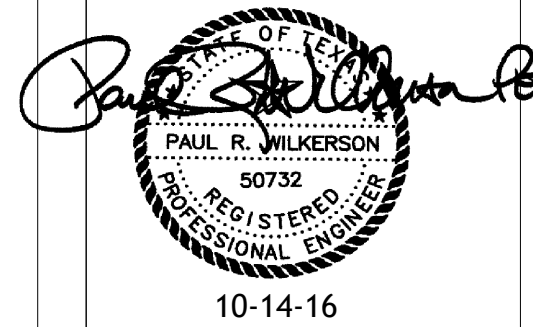
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Project No. 250-02-0516

Date SEPTEMBER 14, 2016

Sheet Number

MP-4
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FIRE ALARM SYMBOL SCHEDULE		
SYMBOL	DESCRIPTION	REMARKS
	FIRE ALARM CONTROL PANEL	
	FIRE ALARM PANEL	
	FIRE ALARM MANUAL PULL STATION, 46" AFF UON, SUBSCRIPT INDICATES ANNUNCIATION ZONE. NON-ADDRESSABLE	
	SMOKE DETECTOR	
	DUCT SMOKE DETECTOR WITH SAMPLING TUBE	
	RELAY	
	HEAT DETECTOR	
	AUDIBLE/VISUAL ALARM, 6"-8" AFF UON	
	WEATHERPROOF AUDIBLE ALARM	
	ELECTROMAGNETIC DOOR HOLDER	
	VISUAL ALARM, 6"-8" AFF UON	
	KITCHEN HOOD FIRE SUPPRESSION SYSTEM	
	ADA/UL 1971 STROBE SIGNALING APPLIANCE MOUNT @ 80" AFF	
	HORN STROBE MOUNT @ 80"AFF ADA/UL 464/1971	

NOTE: ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS

DISTRIBUTION SYMBOL SCHEDULE		
SYMBOL	DESCRIPTION	REMARKS
	HOMERUN-TO CIRCUIT NO. 1,3,5 ON PANEL "A"	
	BRANCH CIRCUIT WIRING IN CONDUIT (NEUTRAL, PHASE, SWITCHLEG, GROUND)	
	CKT ROUTED THRU CONTACTOR CONTROLLED BY TIME CLOCK AND/OR PHOTOCELL	
	CIRCUIT ROUTED THRU CONTACTOR	
	BRANCH CIRCUIT CONCEALED IN WALL OR CEILING	
	BRANCH CIRCUIT OR CONDUIT UNDER FLOOR	
	BRANCH CIRCUIT OR CONDUIT EXPOSED AND/OR SURFACE MOUNTED	
	PHOTOCELL	
	JUNCTION BOX	
	JUNCTION BOX, FLOOR MOUNTED PEDESTAL	
	JUNCTION BOX, FLOOR MOUNTED FLUSH	
	MANUAL STARTER WITH THERMAL TRIP	
	DISCONNECT SWITCH, AMP/POLE/NEUTRAL/FUSE/ENCLOSURE	
	STARTER	
	COMBINATION STARTER/DISC. SW., AMP/POLE/STARTER/FUSE/ENCLOSURE	
	POWER AND/OR LIGHTING PANELBOARD, REFER TO PANELBOARD SCHEDULE	
	SWITCHBOARD, REFER TO SWITCHBOARD SCHEDULE OR RISER	
	RECESSED DOWNLIGHT	
	SURFACE MOUNTED DOWNLIGHT	
	FLUORESCENT LIGHT FIXTURE (CROSS HATCH INDICATES 24 HOUR OPERATION)	

NOTE: ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS

MISCELLANEOUS SYMBOL SCHEDULE		
SYMBOL	DESCRIPTION	REMARKS
	INTERCOM UNIT	
	CLOSED CIRCUIT TV CAMERA	
	DOOR ALARM	
	INTERCOM EQUIPMENT RACK	
	DOOR CONTROL SYSTEM CABINET	
	CLOSED CIRCUIT TELEVISION MONITOR	
	DIGITAL DISPLAY MULTIFUNCTION TELEPHONE	

NOTE: ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS.

MISCELLANEOUS SYMBOL SCHEDULE		
SYMBOL	DESCRIPTION	REMARKS
	DUPLEX RECEPTACLE 20A/120V 18" AFF UON	
	RECEPTACLE MOUNTED ABOVE COUNTERTOP	
	RECEPTACLE WITH ISOLATED INSULATED GROUND	
	FOURPLEX RECEPTACLE 20A/120V 18" AFF UON	
	CLOCK RECEPTACLE 120V 96" AFF UON	
	SPECIAL PURPOSE RECEPTACLE 18" AFF	
	RECEPTACLE MOUNTED HORIZONTALLY	
	DUPLEX RECEPTACLE, FLOOR MTD. FLUSH	
	DUPLEX RECEPTACLE, FLOOR MTD. PEDESTAL	
	WEATHER-PROOF RECEPTACLE 18" AFF UON	
	DUPLEX RECEPTACLE W/SURGE SUPPRESSION 20A/125V 18" AFF UON	
	SINGLE POLE SWITCH 20A, 48" AFF UON	
	THREE-WAY SWITCH 20A, 48" AFF UON	
	SINGLE POLE KEY OPERATED SWITCH 20A, 48" AFF UON	
	DIMMER SWITCH, 48" AFF UON	
	TIMNER SWITCH EQUAL TO INTERMATIC, 48" AFF UON	
	RECEPTACLE WITH GROUND FAULT INTERRUPTER, 18" AFF UON	
	DUPLEX RECEPTACLE, LOWER HALF SWITCHED	
	TAMPER PROOF DUPLEX RECEPTACLE	
	CEILING MOUNT DUPLEX RECEPTACLE	
	INTERCOM SPEAKER VOLUME CONTROL	

NOTE: ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS

GENERAL ELECTRICAL NOTES

- A. ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE 2008 NATIONAL ELECTRICAL CODE AND LOCAL CODES.
- B. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO MINIMIZE CONFLICTS.
- C. ALL WIRE AND CABLE SIZES ARE FOR COPPER. ALUMINUM WILL NOT BE ALLOWED. MINIMUM WIRE SIZE IS #12. TYPE AC AND TYPE MC CABLE ARE NOT ALLOWED. ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT. TYPE EMT CONDUIT IS NOT ALLOWED.
- D. NO CONDUCTOR SHALL BE LOADED BEYOND ITS ALLOWABLE AMPACITY.
- E. CONFIRM WITH LOCAL CODES, MECHANICAL CONTRACTOR AND EQUIPMENT VENDORS ON THE LOCATION AND MOUNTING METHOD FOR DISCONNECT SWITCHES, MANUAL MOTOR STARTERS, COMBINATION STARTER/DISCONNECTS, ETC. PRIOR TO ELECTRICAL ROUGH-IN AND INSTALLATION.
- F. ELECTRICAL CONTRACTOR SHALL DOUBLE CHECK ALL FEEDER CONDUCTOR AND CONDUIT SIZES WITH NEC AND LOCAL CODES PRIOR TO BID, ORDERING OR CUTTING CONDUCTORS.
- G. ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES TO OWNER IMMEDIATELY.
- H. UNLESS OTHERWISE NOTED, BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER (THHN OR EQUAL) SIZED AS FOLLOWS:

BREAKER RATING	WIRE SIZE
20 AMP	#12 AWG
30	#10
40	#8
50	#6
60	#4
70	#4
80	#4
90	#3
100	#2
110	#2
125	#1
150	#1/0
175	#2/0
200	#3/0

ALL BRANCH CIRCUITS WITH AN OVERALL LENGTH IN EXCESS OF 75 FEET SHALL BE INCREASED IN WIRE SIZE TO ACCOMMODATE VOLTAGE DROP.

- I. CONTRACTOR SHALL CONNECT MOTORIZED DAMPERS FROM ASSOCIATED UNITS & POWER SUPPLY FOR ALL PRV, PEF, RSF MISCELLANEOUS FANS, ETC. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- J. ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO OWNER PROVIDED EQUIPMENT.
- K. ALL J-BOXES SHALL BE ACCESSIBLE FOR FUTURE SERVICE PER NEC. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND POINTS OF ACCESS.
- L. LIGHT FIXTURES SHALL BE OPERATED BY SWITCH LOCATED IN SAME ROOM UNLESS OTHERWISE NOTED.
- M. CONDUITS SHALL NOT BE ROUTED EXPOSED IN FINISHED AREAS UNLESS NOTED.
- N. SEE MECHANICAL FLOOR PLANS FOR THERMOSTAT LOCATIONS.
- O. PROVIDE STAINLESS STEEL COVERPLATES FOR ALL OUTLET BOXES.
- P. SEAL AROUND ALL EXTERIOR WALL PENETRATIONS.
- Q. DRAWINGS ARE SCHEMATIC IN NATURE AND MAY NOT BE DRAWN EXACTLY TO SCALE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND ALL OTHER TRADES TO AVOID SPACING OR ROUTING PROBLEMS.
- R. ALL PENETRATIONS OF FIRE RATED PARTITIONS DUE TO THE INSTALLATION OF THE ELECTRICAL SYSTEMS SHALL BE SEALED TO MAINTAIN THE FIRE RATING OF THE WALL. SEAL ALL OUTLET BOXES WITH RATED CAULK OR SEALANT IN FIRE RATED ASSEMBLIES.
- S. INSTALL MARKING TAPE IN TRENCH FOR ALL UNDERGROUND UTILITIES.
- T. ALL DEVICES INSTALLED EXPOSED TO WEATHER SHALL BE WEATHERPROOF.

COMMUNICATION AND DATA SYMBOL SCHEDULE

SYMBOL	DESCRIPTION	REMARKS
	TELEPHONE OUTLET, 18" AFF UON	3/4" E.C. TO ABOVE CEILING, LEVITON MULTIPOINT, (2) PORTS
	TELEPHONE OUTLET, WALL MOUNTED 48" AFF UON	3/4" E.C. TO ABOVE CEILING
	PUBLIC PAY TELEPHONE OUTLET, 48" AFF UON	3/4" E.C. TO ABOVE CEILING
	DATA OUTLET, 18" AFF UON	3/4" E.C. TO ABOVE CEILING, LEVITON MULTIPOINT, (4) PORTS
	TELEVISION OUTLET, 18" AFF UON	3/4" E.C. TO ABOVE CEILING

NOTE: ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS

ELECTRICAL ABBREVIATIONS

A	AMPERES	MAX	MAXIMUM
A/C	AIR CONDITIONING	MCB	MAIN CIRCUIT BREAKER
AF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AUX	AUXILIARY	MDF	MAIN DISTRIBUTION PANEL
ATS	AUTOMATIC TRANSFER SWITCH	MECH	MECHANICAL
AWG	AMERICAN WIRE GAGE	MIS	MINIMUM
		MISC	MISCELLANEOUS
		MLO	MAIN LUG ONLY
		MSB	MAIN SWITCHBOARD
		MTD	MOUNTED
BLDG	BUILDING		
C	CONDUIT		
CB	CIRCUIT BREAKER		
CCTV	CLOSED CIRCUIT TELEVISION		
CKT	CIRCUIT		
CLG	CEILING	NEC	NATIONAL ELECTRICAL CODE
		NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
		NF	NOT FUSED
		NIC	NOT IN CONTRACT
DWG	DRAWING	N.O.	NORMALLY CLOSED
EA	EACH	N.O.	NORMALLY OPEN
EF	ELECTRICAL CONDUIT	NO	NUMBER
EX	EXHAUST FAN	NTS	NOT TO SCALE
ELEC	ELECTRIC/ELECTRICAL		
EMT	ELECTRICAL METALLIC TUBING		
EPO	EMERGENCY POWER OFF		
EQUIP	EQUIPMENT	OC	ON CENTER
ENC	ELECTRIC WATER COOLER	PF	POWER FACTOR
		PH	PHASE
FA	FIRE ALARM	PNL	PANEL
FACP	FIRE ALARM CONTROL PANEL	PVC	POLYVINYL CHLORIDE
G	GROUND	RECP	RECEPTACLE
GFI	GROUND FAULT INTERRUPT	RES	REFER TO RIGID GALVANIZED STEEL
HP	HORSEPOWER		
HVAC	HEATING/VENTILATION/ AIR CONDITIONING	TYP	TYPICAL
		UL	UNDERWRITER'S LABORATORIES
IG	ISOLATED GROUND	UON	UNLESS OTHERWISE NOTED
IMT	INTERMEDIATE METAL	V	VOLTS
J-BOX	JUNCTION BOX	VA	VOLT-AMPERES
KVA	KILOVOLT-AMPERES		
KW	KILOWATTS	WP	WEATHERPROOF

INTERIOR LIGHT FIXTURE SCHEDULE

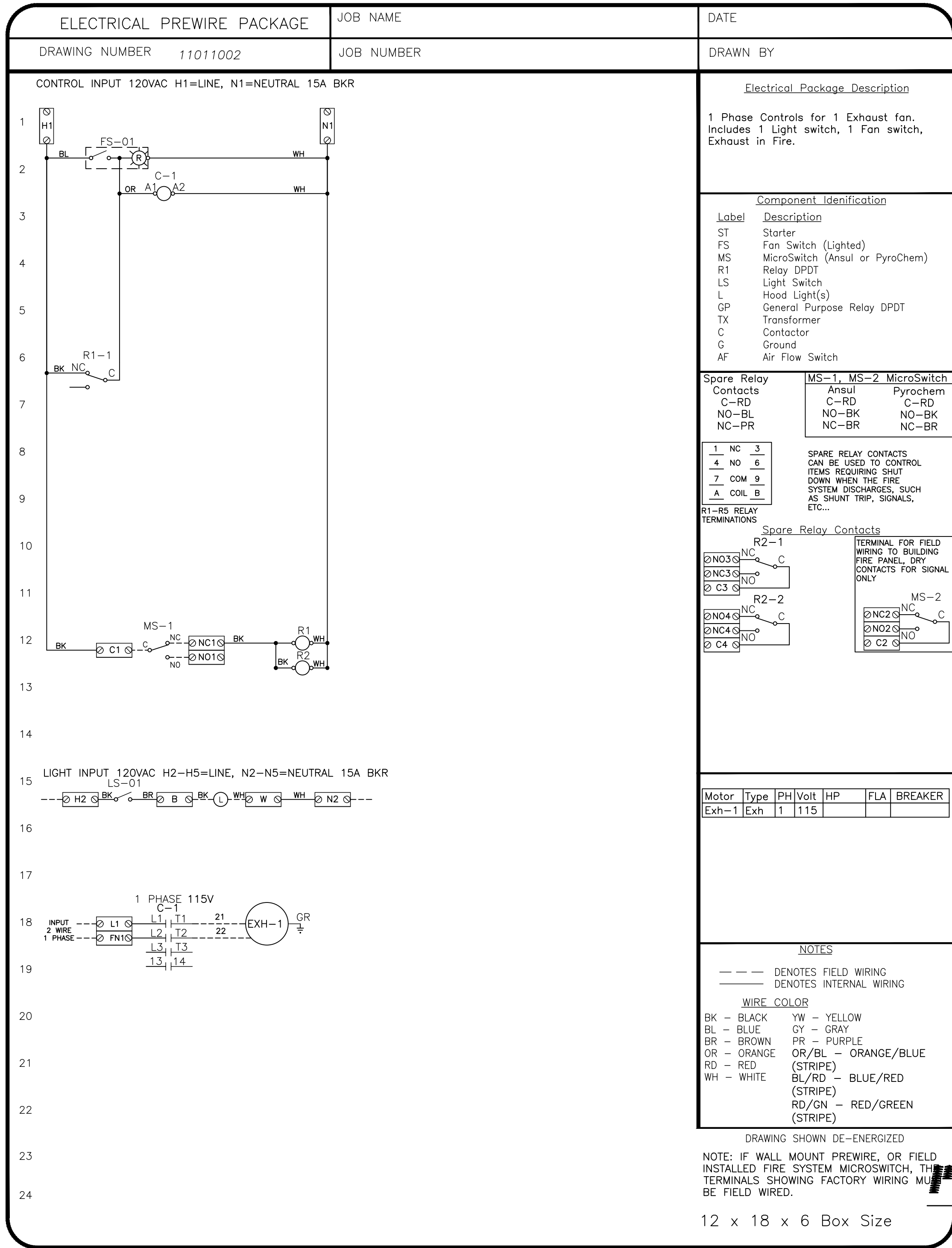
TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS	REMARKS
E	NULITE	INT-4-50-140-UNV-DIM	40W LED 4000°K	INDUSTRIAL VAPORTITE STRIP, HIGH IMPACT DR ACRYLIC, 277 VOLT
K	METALUX	45NLED-LD4-49SL-LN-UNV-LB40-CD1-U/WG/SNF-4FT	41W LED 4000°K	4' STRIP WITH WIRE GUARD, 277 VOLT
M	MARKEL	P3P5103CA1N		CEILING MOUNT VERTICAL DISCHARGE ELECTRIC HEATER, BUILT IN THERMOSTAT, 3.3KW, 480V, 3Ø
N	MARKEL	P3P5105CA1N		CEILING MOUNT VERTICAL DISCHARGE ELECTRIC HEATER, BUILT IN THERMOSTAT, 5.0KW, 480V, 3Ø
	SURELITES	CX 7XSDR	INCLUDED	EXIT LIGHT W/ BATTERY PACK, 120V
	SURELITES	SEL25	INCLUDED	EMERGENCY LIGHT 2 HEAD, 120V

EXTERIOR LIGHT FIXTURE SCHEDULE

B	SPEC GRADE POLARIS	AFL-100W-60X60-90-305V-NW-BRONZE-TL	1-110W LED 4000°K	FLOODLIGHT, YOKE MOUNTED, DARK BRONZE, PLANE WASH, 277 V
P	PORTFOLIO	LD6A-30D010TE-ERW6A-30940-6LW1-BB-WF	43.6W LED 4000°K	SHALLOW RECESSED DOWNLIGHT, FRESNEL LENS, BLACK BAFFLE WHITE FLANGE, WET LOCATION LISTED
	PROGRESS	P2502-33	NO LIGHT	AIR PRO 52" PATIO FAN, 5-BLADE VERIFY COLOR WITH ARCHITECT WET LOCATION LISTED
Q	DECO LIGHTING	DVTL-LED-20-41-UNV-CM-GREEN LENS	20W LED 4100°K	POLE TOP MOUNTED DECORATIVE LIGHT, GREEN LENS, WET LOCATION LISTED. PROVIDE 9" DIAMETER DISC. BETWEEN FIXTURE AND POLE. FIXTURE MOUNTS WITH SLUFFITTER TO 3" DIAMETER POLE; NO GUARD SEE NOTE 4.
XP	VISION 4	VPE-2-20W-4000K-120-77-OP-WHT-WET	20W LED 4000°K	POLE TOP LIGHT MOUNTED AT 100", WET LOCATION LISTED, OPAL LENS, WHITE FINISH

NOTES:

1. NOT ALL FIXTURES LISTED ARE NECESSARILY USED ON THIS PROJECT.
2. OBTAIN APPROVAL FROM ENGINEER AT LEAST 5 DAYS BEFORE BID DATE FOR ANY SUBSTITUTIONS OF FIXTURES. ALL SUBSTITUTIONS MUST MEET THE EFFICIENCY AND PHOTOMETRICS OF SPECIFIED FIXTURES.
3. ALL INTERIOR LIGHTING FIXTURES SHALL BE PROVIDED WITH 4000°K LAMPS. TYPE AS NOTED. EXTERIOR FIXTURES SHALL BE 4000°K.
4. FIXTURE TYPE "Q" SHALL MATCH EXISTING FIXTURES INSTALLED IN PROJECT.



ELECTRICAL PACKAGES

NO.	TAG	PACKAGE #	LOCATION	SWITCHES		ROOFTOP STARTERS	OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY			TYPE	ø	H.P.	VOLT.	FLA
1		11011002	Wall Mount	SS Wall Mount Box	1 Light 1 Fan		Exhaust in Fire	Exhaust	1	0.333	115	7.0

PRV #3-16 (COMPLEX 2)

ELECTRICAL/LIGHTING COVER SHEET

SCALE: NONE

Revised

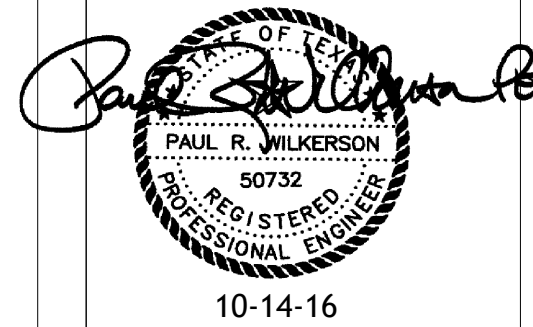
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TEXAS BANK SPORTS COMPLEX

CONCESSION BUILDING #2

City of San Angelo, Texas

Project No. 250-02-0516

Date SEPTEMBER 14, 2016

Sheet Number
EL-1
6 OF 9

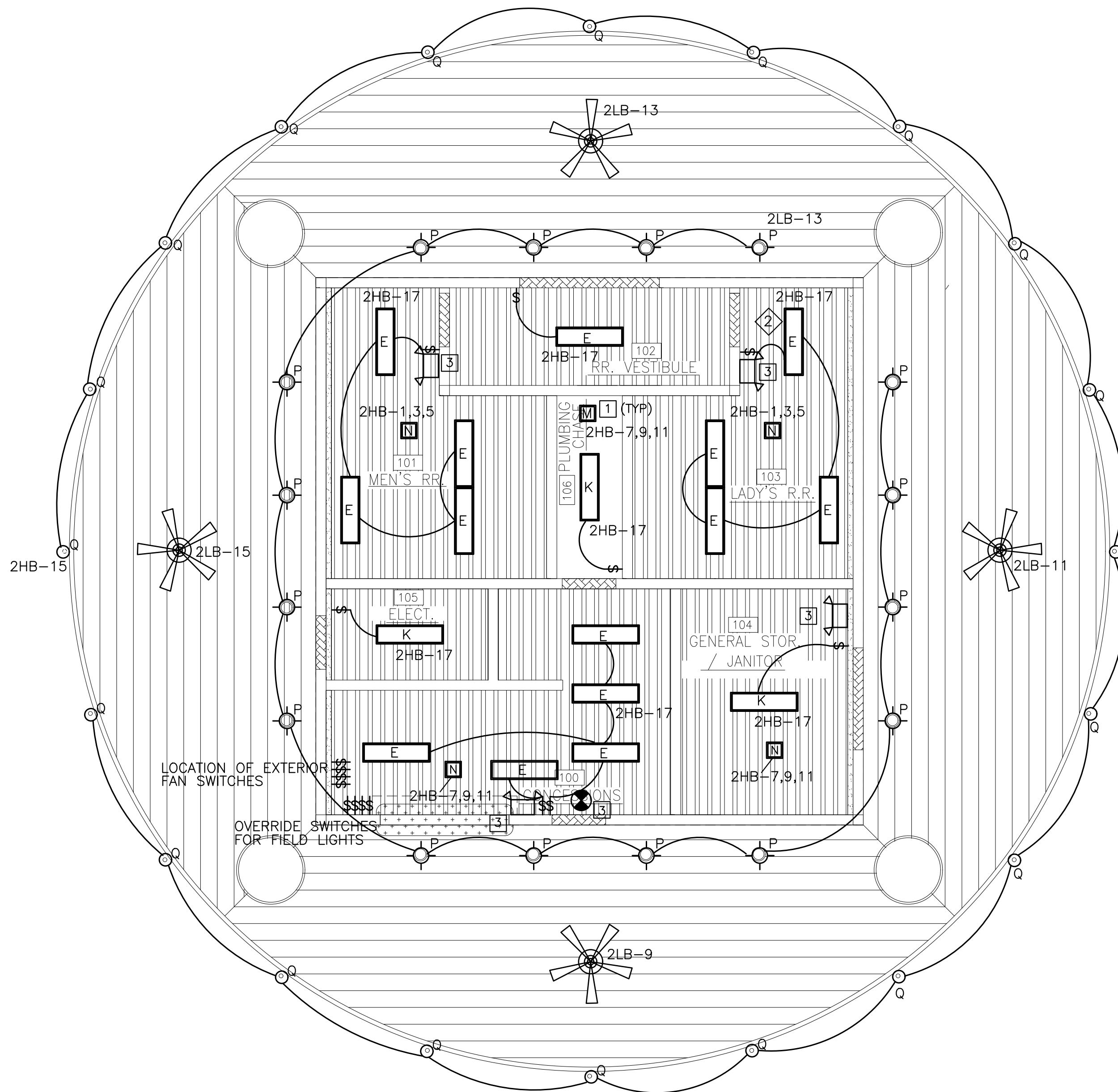
This detailed floor plan illustrates the second level of the building, enclosed by a dashed circular boundary. The plan includes numerous rooms and specific equipment locations:

- Top Section:** Features a large room labeled "RR VESTIB" containing two sets of restrooms ("WR WP GFI 2LB-33") and a central area labeled "2LB-4".
- Middle Section:** Includes a "MEN'S RR" (101), a "PLUMB CHASE" (106), and a "LADY'S R.R." (103). Restroom areas are also labeled "2LB-29 +48\" AFF (VERIFY)" and "2LB-31 +48\" AFF (VERIFY)".
- Bottom Section:** Contains a "GENERAL STOR. JANITOR" area (104) with multiple "2LB-35" labels, a "FIRE SPRINKLER SYSTEM RISER", and a "CONCESSIONS" area (100).
- Equipment and Callouts:** Numerous callouts specify equipment types and locations, such as "WP GFI WR", "WH 2LB-1,3", "FACF", "FSIS", "FF", "H", "HS", "F.E.", and "ELECT". Numbered circles (1 through 12) indicate specific points of interest or equipment.
- Structural Elements:** Columns are indicated by dashed lines and labeled "COL.". A north arrow is located in the upper left corner.

[illegible]

NOTE: NORTH BUILDING IS 16'

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The diagram illustrates the electrical system for the Skylark, featuring a circular layout with various rooms and their electrical components. The rooms and areas shown include:

- 2LB-13** (Top)
- 2LB-15** (Left)
- 2LB-11** (Right)
- 2LB-9** (Bottom)
- 102 RR VESTIBULE**
- 101 MEN'S RE**
- 103 LADY'S R.R.**
- 104 GENERAL STOR**
- 105 ELECT.**
- 106 PLUMBING**
- 107 MEN'S RE**
- 108 JANITOR**
- 109 MEN'S RE**
- 110 MEN'S RE**
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- 196 MEN'S RE**
- 197 MEN'S RE**
- 198 MEN'S RE**
- 199 MEN'S RE**
- 200 MEN'S RE**

The diagram also shows various electrical symbols and components, including:

- Switches:** E (Emergency), N (Normal), K (Kill), P (Power).
- Outlets:** P (Power).
- Fans:** 2LB-13, 2LB-15, 2LB-11, 2LB-9.
- Override switches for field lights:** 2HB-1, 2HB-2, 2HB-3, 2HB-4, 2HB-5, 2HB-6, 2HB-7, 2HB-8, 2HB-9, 2HB-10, 2HB-11, 2HB-12, 2HB-13, 2HB-14, 2HB-15, 2HB-16, 2HB-17, 2HB-18, 2HB-19, 2HB-20, 2HB-21, 2HB-22, 2HB-23, 2HB-24, 2HB-25, 2HB-26, 2HB-27, 2HB-28, 2HB-29, 2HB-30, 2HB-31, 2HB-32, 2HB-33, 2HB-34, 2HB-35, 2HB-36, 2HB-37, 2HB-38, 2HB-39, 2HB-40, 2HB-41, 2HB-42, 2HB-43, 2HB-44, 2HB-45, 2HB-46, 2HB-47, 2HB-48, 2HB-49, 2HB-50, 2HB-51, 2HB-52, 2HB-53, 2HB-54, 2HB-55, 2HB-56, 2HB-57, 2HB-58, 2HB-59, 2HB-60, 2HB-61, 2HB-62, 2HB-63, 2HB-64, 2HB-65, 2HB-66, 2HB-67, 2HB-68, 2HB-69, 2HB-70, 2HB-71, 2HB-72, 2HB-73, 2HB-74, 2HB-75, 2HB-76, 2HB-77, 2HB-78, 2HB-79, 2HB-80, 2HB-81, 2HB-82, 2HB-83, 2HB-84, 2HB-85, 2HB-86, 2HB-87, 2HB-88, 2HB-89, 2HB-90, 2HB-91, 2HB-92, 2HB-93, 2HB-94, 2HB-95, 2HB-96, 2HB-97, 2HB-98, 2HB-99, 2HB-100.

- 1 REFER TO SHEET EL FOR SERVICE ENTRANCE AND RISER DIAGRAMS AND PANEL SCHEDULES.
- 2 VERIFY MOUNTING HEIGHT OF RECEPTACLES AND SWITCHES WITH OWNER. IN ALL CASES INSURE COMPLIANCE WITH ADA MOUNTING HEIGHT REDUITS OF 48" MAX FOR SWITCHES, 15" MIN FOR RECEPTACLES AND JACKS, 48" MAX FOR THERMOSTATS.
- 3 PROVIDE STAINLESS STEEL COVERPLATES FOR ALL DEVICES.
- 4 ALL EXTERIOR RECEPTACLES TO BE GFI, WEATHERPROOF.
- 5 MAIN DISCONNECT SWITCHES ARE EXISTING. CONTRACTOR IS RESPONSIBLE FOR DITCHING & CONDUIT FOR ELECTRICAL SERVICE TO CONCESSIONS BUILDING #2. REFER TO SHEET MPE-1.
- 6 PROVIDE WORKING CLEARANCE FOR ALL ELECTRICAL EQUIPMENT PER CODE.
- 7 REFER TO SHEET MPE-1 FOR SITE NOTES AND DETAILS.
- 8 PROVIDE DISCONNECTS PER NEC FOR ANY PERMANENTLY CONNECTED EQUIPMENT WHICH DOES NOT HAVE INTRAL DISCONNECTS.
- 9 ALL CIRCUITS SHALL BE #12 THHN COPPER IN 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
- 10 COMPLEX #2 IS TO BE SPINLERIZED. PROVIDE FLOW & TAMPER SWITCH AT FIRE SYSTEM AT FIRE SYSTEM RISER. INTERFACE TAMPER & FLOW SWITCHES WITH CONTROL PANEL EQUAL TO EST FS 1004. PROVIDE COMMUNICATOR & COORDINATE WITH OWNER TO PROVIDE TWO TELEPHONE LINES TO NOTIFY APPROVED MONITORING SERVICE. OWNER IS RESPONSIBLE TO FURNISH PHONE LINES. INSTALL SMOKE DETECTOR AT CEILING ABOVE FACD.
- 11 PROVIDE SINGLE RECEPTACLE FOR HAND DRYERS OR HARDWARE AS REQUIRED.
- 12 REFER TO ROOF PLANS FOR LOCATION OF STEP DOWN TRANSFORMER.
- 13 LICENSED IRRIGATOR SHALL EFFECT REPAIRS TO DAMAGED SPRINKLER SYSTEM.

- 1) LIGHT SWITCHES AND COVER PLATES TO BE STAINLESS STEEL.
- 2) PROVIDE SWITCHING TO MEET THE REQUIREMENTS OF THE 2009 IECC.
- 3) ALL FIXTURES SHALL BE 277 VOLT UNLESS OTHERWISE NOTED. SEE SHEET E-1 FOR RECOMMENDED MANUFACTURER AND CATALOG NUMBERS OF FIXTURES.
- 4) ALL FLUORESCENT LIGHTING FIXTURES SHALL BE PROVIDED WITH T8 LAMPS WHERE POSSIBLE UNLESS 15 NOTED OTHERWISE.
- 5) CONTRACTOR SHALL CHECK AND VERIFY Fixture QUANTITY AND MAKE PROPER ADJUSTMENTS FOR ANY CHANGES IN PLANS DUE TO ADDITIONAL REQUIREMENTS.
- 6) ALL LIGHTING TO BE INSTALLED AND OPERATED IN STRICT ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
- 7) WHENEVER APPLICABLE ALL INCANDESCENT FIXTURES SHALL BE PROVIDED WITH ENERGY EFFICIENT INCANDESCENT LAMPS.
- 8) ALL CIRCUITS TO BE #12 THHN COPPER IN 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
- 9) BALLASTS FOR FLUORESCENT FIXTURES SHALL BE ELECTRONIC TYPE. BALLASTS TO HAVE IN-LINE FUSE HOLDER AND FUSES. BALLASTS SHALL BE EQUIVALENT TO ADVANCE ELECTRONIC BALLASTS, 10% THD. USE 3500 DEG K LAMPS IN ALL FIXTURES FOR INSIDE BUILDING; 4100° K FOR ALL FIXTURES ON EXTERIOR.

- 1 HEATERS TO BE CONTROLLED WITH BUILT-IN THERMOSTATS, SET AT 40°.
- 2 CROSS AIM FIXTURES TYPE "B" ON ROOF TO PROVIDE A MORE UNIFORM LIGHTING. TILT & AIM EACH FIXTURE TO OPPOSITE ROOF SURFACE.
- 3 EXIT & EMERGENCY LIGHTS TO BE CONNECTED TO CKT 2LB-2.
- 4 PROVIDE CURB FOR STEPDOWN XFMR ON ROOF. ALL PENETRATIONS THRU ROOF TO BE MADE THROUGH CURB.
- 5 ELECTRICAL FEED TO "G" LIGHTS ON POLE: ROUTE CKT THRU CANOPY TO FIELD. INSTALLED HOLE IN POLE AT SOFFIT LEVEL. FLEX CONDUIT IS APPROVED FOR THIS CIRCUIT. HOLE IN POLE SHALL BE INVISIBLE WHEN POLE IS ATTACHED TO BUILDING.

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PANEL "2LB" COMPLEX #2 CONCESSIONS

CKT	CKT BRKR	WIRE	SERVES	CONTINUOUS VA LIGHTS	OTHER	NON-CONT. VA RECEPT	OTHER	SERVES	WIRE	CKT BRKR	CKT
1	30/2	#10	WATER HEATER	500		A	2250	EXIT LIGHTS	#12	20/1	2
3						B	2250 1350 3000	DRINKING FOUNTAIN	#12	20/1	4
5	30/2	#10	ICE MAKER			C		SPARE	#12	20/1	6
7						A	3000	SPARE	#12	20/1	8
9	20/1	#12	CEILING FANS	500		B		SPARE	#12	20/1	10
11	20/1	#12	CEILING FANS	500		C		SPARE	#12	20/1	12
13	20/1	#12	CEILING FANS	500		A		SPARE	#12	20/1	14
15	20/1	#12	CEILING FANS	500		B		SPARE	#12	20/1	16
17	20/1	#12	SPARE			C		CONCESSIONS RECEPTS	#12	20/1	18
19	20/1	#12	EXHAUST FAN	400		A	1500	CONCESSIONS RECEPTS	#12	20/1	20
21	20/1	#12	EXHAUST FAN	400		B	1500	CONCESSIONS RECEPTS	#12	20/1	22
23	20/1	#12	HOOD EXHAUST FAN	1000		C	1500	MICROWAVE RECEPT	#12	20/1	24
25	20/1	#12	SPARE			A		POPCORN RECEPT	#12	20/1	26
27	20/1	#12	STORAGE RECEPTS			B	540 500	ROOF VAULT RECEPT	#12	20/1	28
29	20/1	#12	HAND DRYER MENS			C	1500	CONCESSIONS RECEPTS	#12	20/1	30
31	20/1	#12	HAND DRYER WOMENS			A	1500	CONCESSIONS RECEPTS	#12	20/1	32
33	20/1	#12	EXTERIOR RECEPTS	2		B	1080 1500	CONCESSIONS RECEPTS	#12	20/1	34
35	20/1	#12	STORAGE RECEPTS			C	540 1500	CONCESSIONS RECEPTS	#12	20/1	36
37	20/1	#12	FACP	3		A	500	SHUNT TRIP SPACE	#12	20/1	38
39	20/1	#12	TELEPHONE BOARD			B	500 4000	FUTURE GRIDDLE	#8	50/2	40
41	20/1	#12	REFRIGERATOR			C	1300 4000				42
TOTAL NON-CONTINUOUS VA							41,810		X1.0		41,810
TOTAL CONTINUOUS VA				4,300					X1.25	5,375	

SERVICE: 120/208V, 3Ø, 4W, 60HZ
 MAINS = 150 A MLO
 A.I.C. = 22,000 AMPS
PANEL "2LB" NOTES:

- 1 SQUARE D TYPE NQ OR EQUAL,
 NEMA-1, SURFACE MOUNT
- 2 PROVIDE GFCI RECEPTS FOR OUTDOOR,
 RESTROOM & KITCHEN CIRCUITS
- 3 PROVIDE HLO-1 HANDLE LOCK OFF.
- 4 SHUNT TRIP GRIDDLE BREAKER VIA HOOD

PANEL "2HB" COMPLEX #2 CONCESSIONS

CKT	CKT BRKR	WIRE	SERVES	CONTINUOUS VA LIGHTS	OTHER	NON-CONT. VA RECEPT	OTHER	SERVES	WIRE	CKT BRKR	CKT
1		●		500	900	A	3333		●		2
3	20/3	#12	HEATERS		1400	B	4500 8250 3333 8100	DIT "2B" 60 KVA	#4	80/3	4
5		●			1500	C	3333 6540 9800		●		6
7		●				A	3767	SPARE	#12	20/1	8
9	20/3	#12	HEATERS			B	3767	SPARE	#12	20/1	10
11		●				C	3767	SPARE	#12	20/1	12
13	20/1	#12	ROOF LIGHTS	1120		A		SPARE	#12	20/1	14
15	20/1	#12	ROOF LIGHTS	1500		B		SPARE	#12	20/1	16
17	20/1	#12	LIGHTS	1280		C		SPARE	#12	20/1	18
19	20/1	#12	SPARE			A		SPARE	#12	20/1	20
21	20/1	#12	SPARE			B		SPARE	#12	20/1	22
23	20/1	#12	ROOF LIGHTS	3600		C		SPARE	#12	20/1	24
25	20/1	#12	SPARE			A		SPARE	#12	20/1	26
27	20/1	#12	SPARE			B		SPARE	#12	20/1	28
29	20/1	#12	SPARE			C		SPARE	#12	20/1	30
TOTAL NON-CONTINUOUS VA							63,110		X1.0		63,110
TOTAL CONTINUOUS VA				11,800					X1.25		14,750
SERVICE: 277/480V, 3Ø, 4W, 60HZ						TOTAL CONN. VA		74,910			
MAINS = 150 A MG						TOTAL CONN. AMPS		90			
A.L.C. = 10,000 AMPS						CALC. PANEL VA					
PANEL "2B" NOTES:										65,540	
1 SQUARE D TYPE NF OR EQUAL, NEMA-1, SURFACE MOUNT											
						CALC. VA				CALC. AMPS	
						PHASE A		19,117		69	
						PHASE B		19,570		71	
						PHASE C		26,853		97	

PANEL CALCULATION NOTES:

1. NEC 220-3: LIGHTING & GEN. RECEPT. FIGURED AT 4 VA PER SQ. FT. OR ACTUAL LOAD WHICHEVER IS GREATER.
2. NEC 220-10: LIGHTING LOADS AND CONTINUOUS LOADS CALCULATED AT 125% FOR CIRCUIT RATING.
3. NEC 220-13: RECEPTACLE LOADS CALCULATED AT 100% FOR FIRST 10 KVA; 50% FOR REMAINDER OVER 10 KVA.
4. NEC 220-14: MOTOR LOADS CALCULATED IN ACCORDANCE WITH NEC 430.

PANEL "MSWB1"

CKT	CKT BRKR	WIRE	SERVES	CONTINUOUS VA		NON-CONT. VA		SERVES	WIRE	CKT BRKR	CKT
				LIGHTS	OTHER	RECEPT	OTHER				
1				29964		A	3000	24100			2
3	400/3	(2) #350	PANEL "1HA"	32377		B	4980	20600			4
5				25427		C	5760	20900			6
7				75083		A	5040	29634			8
9	600/3	(3) #350	PANEL "2HA"	85748		B	5940	28134			10
11				78087		C	7440	24234			12
13				1620	900	A	4500	15350			14
15	150/3	#4/0	PANEL "2HB"	3 1500	1400	B	4620	15200			16
17				4880	1500	C	6540	16900			18
19			SPACE								20
21			SPACE			B					22
23			SPACE			C					24
25			SPACE			A					26
27			SPACE			B					28
29			SPACE			C					30
31			SPACE			A					32
33			SPACE			B					34
35			SPACE			C					36
37			SPACE			A					38
39			SPACE			B					40
41			SPACE			C					42
TOTAL NON-CONTINUOUS VA							242,872			X1.0	242,872
TOTAL CONTINUOUS VA				338,486						X1.25	423,108
SERVICE: 277/480V, 3Ø, 4W, 60HZ MAINS = 1000 A MB A.I.C. = 42,000 AMPS SWGR. "MSWB" NOTES:											
[1] EXISTING PANEL [2] MAXIMIZE PANEL BUS BARS [3] NEW BREAKER						TOTAL CONN. VA 581,358 TOTAL CONN. AMPS 699 CALC. PANEL VA PHASE A 211,124 PHASE B 224,610 PHASE C 211,335					
						CALC. VA 647,070 CALC. AMPS 762 811 763					

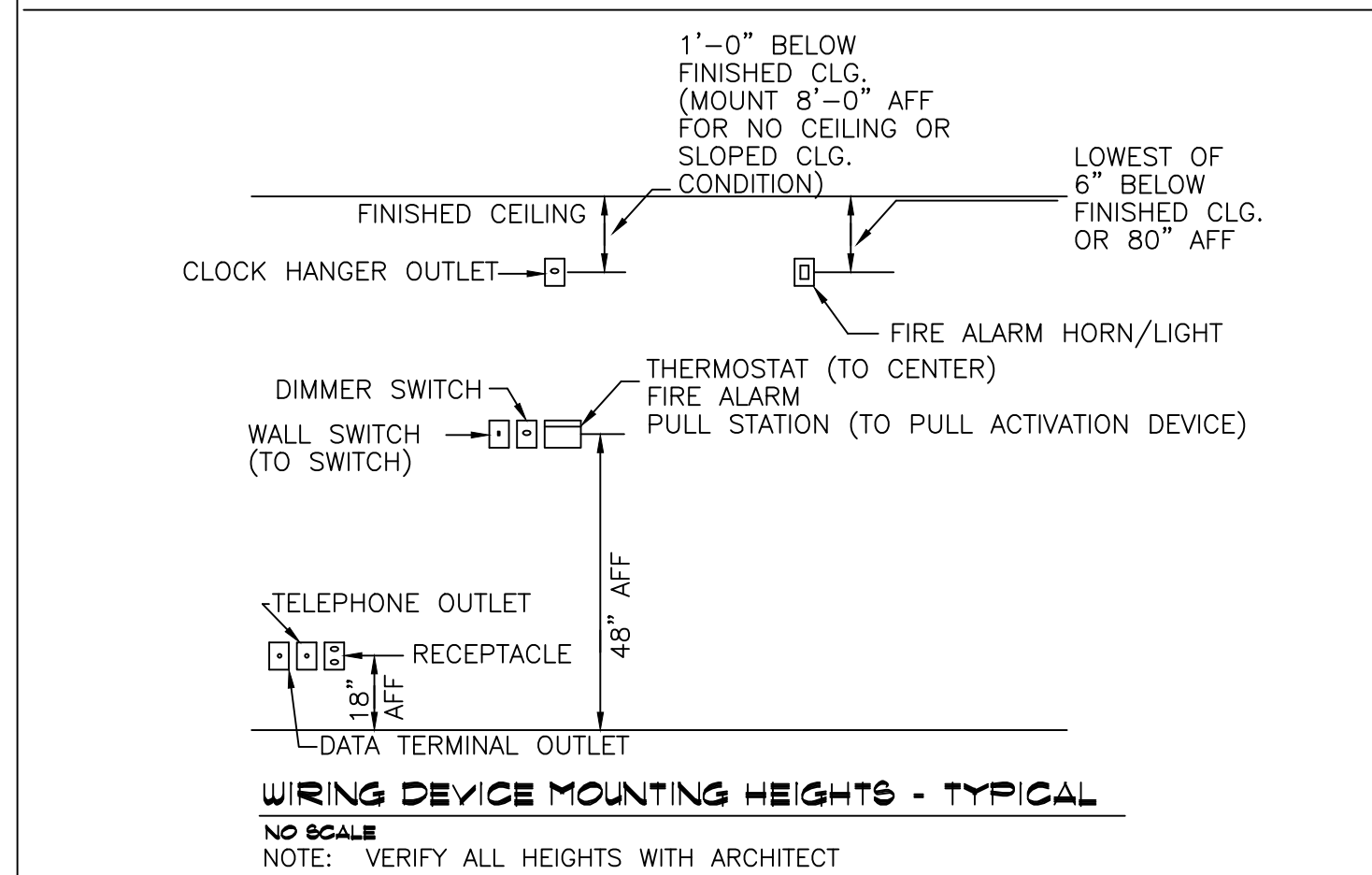
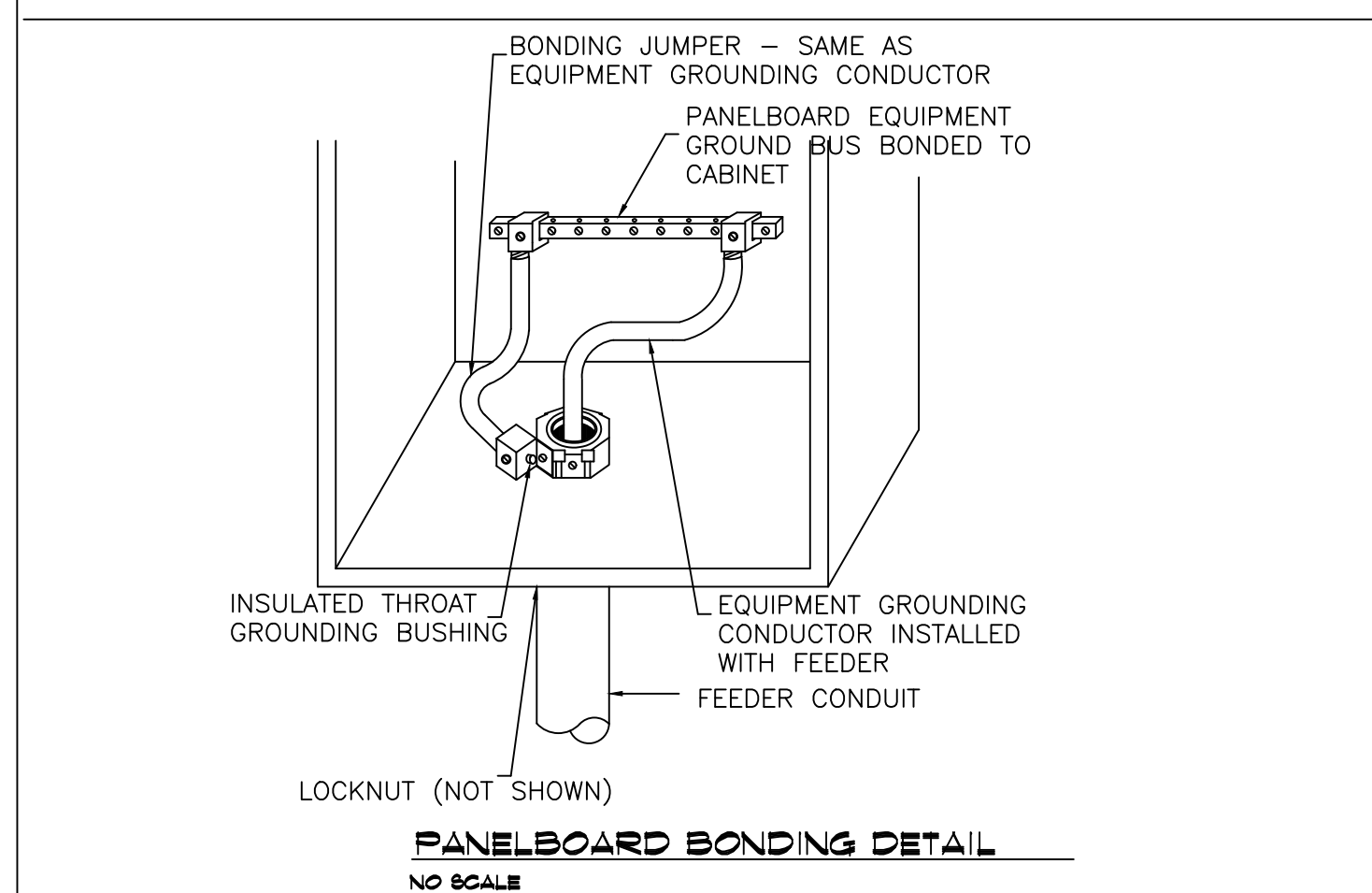
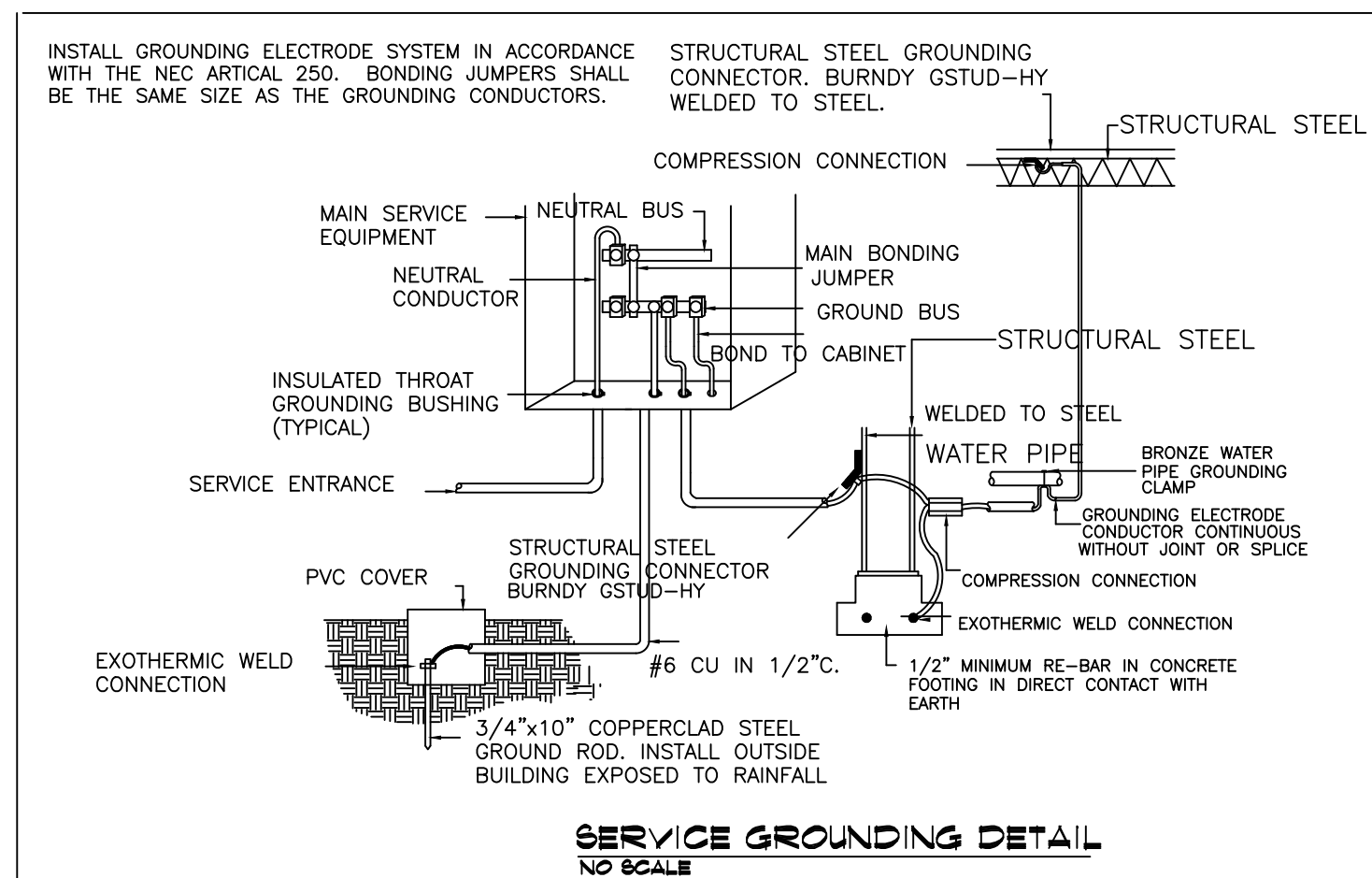
PANEL "2LA" COMPLEX #2 PLAYGROUND

CKT	CKT BKRS	WIRE	SERVES	CONTINUOUS VA		NON-CONT. VA		SERVES	WIRE	CKT BKRS	CKT
				BRKR	OTHER	RECEPT	OTHER				
1	50/2	#6	SCOREBOARD		500	A	3000	PLAY STRUCTURE LIGHTS	#12	20/1	2
3		•				B	3000	PLAY STRUCTURE RECEIPTS	#12	20/1	4
5	50/2	#6	SCOREBOARD			C	3000	PLAY STRUCTURE RECEIPTS	#12	20/1	6
7		•				A	3000	VENDOR RECEIPTS	#10	30/1	8
9	50/2	#6	SCOREBOARD			B	3000	VENDOR RECEIPTS	#10	30/1	10
11		•				C	3000	SPARE	#12	20/1	12
13	50/2	#6	SCOREBOARD			A	3000	SPARE	#12	20/1	14
15		•				B	3000	SPARE	#12	20/1	16
17	20/1	#12	EXTERIOR RECEIPTS.	2		C	900	SPARE	#12	20/1	18
19	20/1	#12	SCOREBOARD CONTROLS			A	500	SPARE	#12	20/1	20
21	20/1	#12	LIGHTING SYSTEM CONTROLS			B	1000	SPARE	#12	20/1	22
23	20/1	#12	SPARE			C		SPARE	#12	20/1	24
25	20/1	#12	SPARE			A		SPARE	#12	20/1	26
27	20/1	#12	SPARE			B		SPARE	#12	20/1	28
29	20/1	#12	SPARE			C		SPARE	#12	20/1	30
TOTAL NON-CONTINUOUS VA						25,220			X1.0	25,220	
TOTAL CONTINUOUS VA				0					X1.25	0	
SERVICE: 120/208V, 3Ø, 4W, 60HZ MAINS = 150 A ME A.I.C. = 10,000 AMPS PANEL "21A" NOTES:											
1 SQUARE D TYPE NQ00 OR EQUAL, NEMA-3R, SURFACE MOUNT						TOTAL CONN. VA		25,220			
2 PROVIDE GFCI RECEIPTS FOR OUTDOOR, RESTROOM & KITCHEN CIRCUITS						TOTAL CONN. AMPS		70			
						CALC. PANEL VA				25,220	
						PHASE A		9,500		79	
						PHASE B		9,000		75	
						PHASE C		6,720		56	

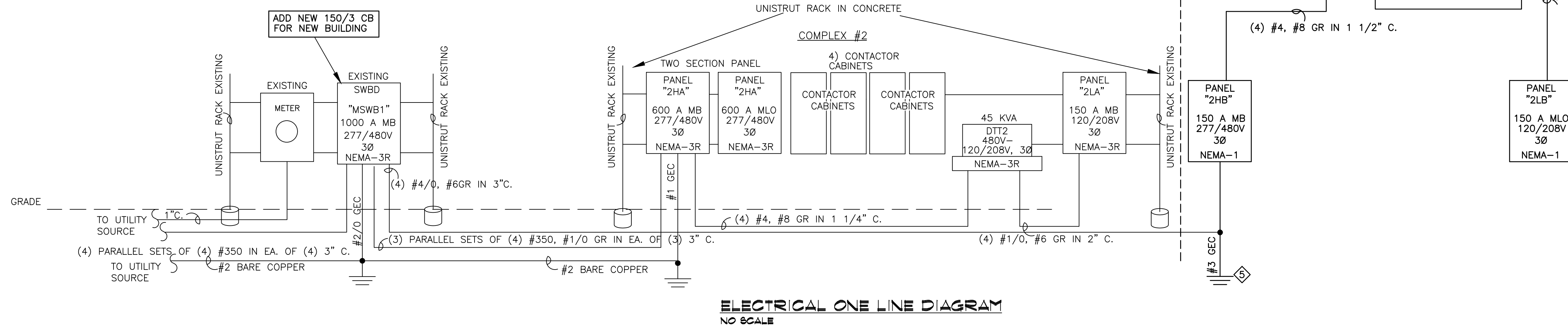
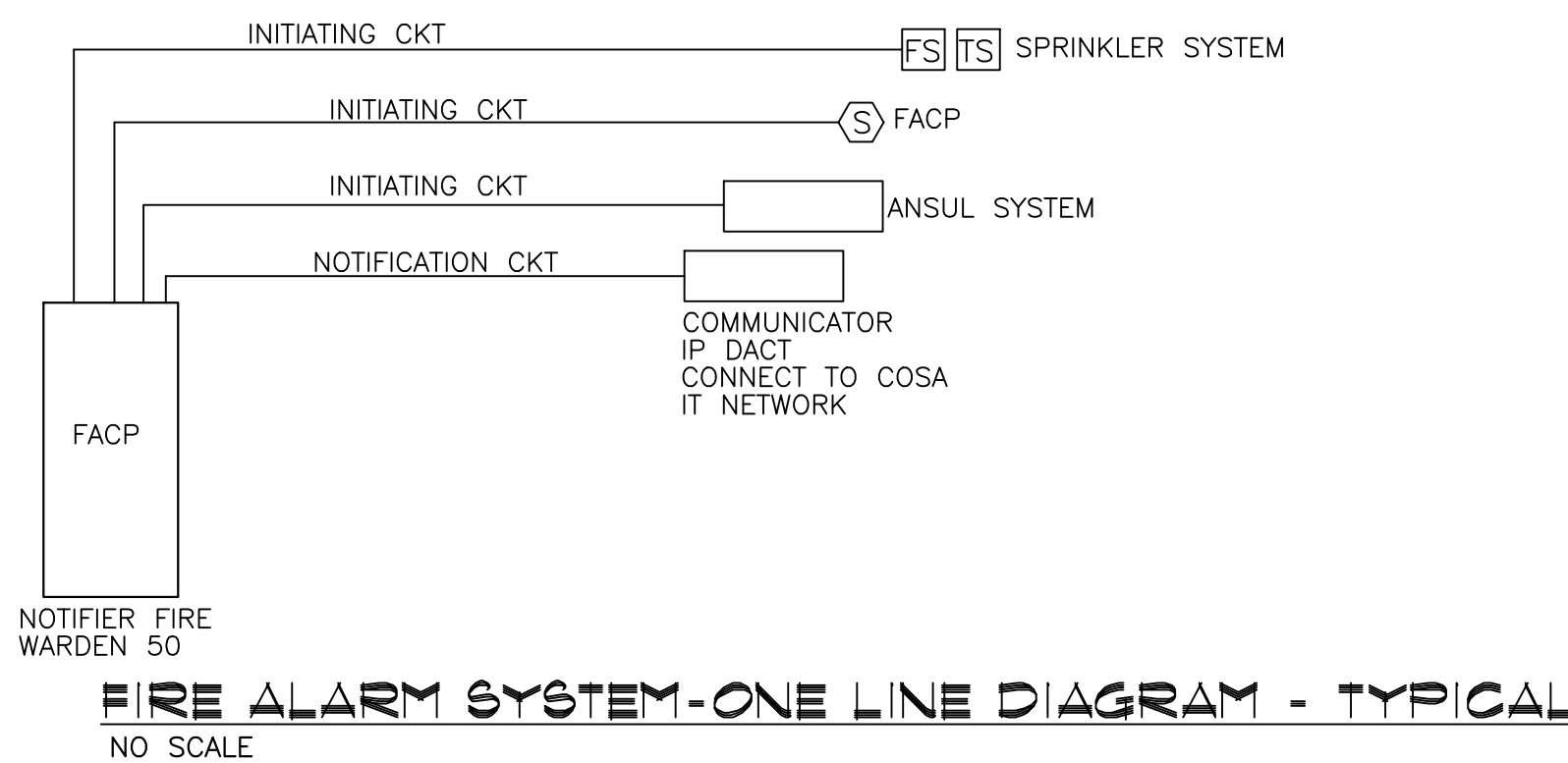
1 SQUARE D TYPE NQOD OR EQUAL,
NEMA-3R, SURFACE MOUNT

2 PROVIDE GFCI RECEPTS FOR OUTDOOR,
RESTROOM & KITCHEN CIRCUITS

	CALC. VA	CALC. AMPS
PHASE A	9,500	79
PHASE B	9,000	75
PHASE C	6,720	56

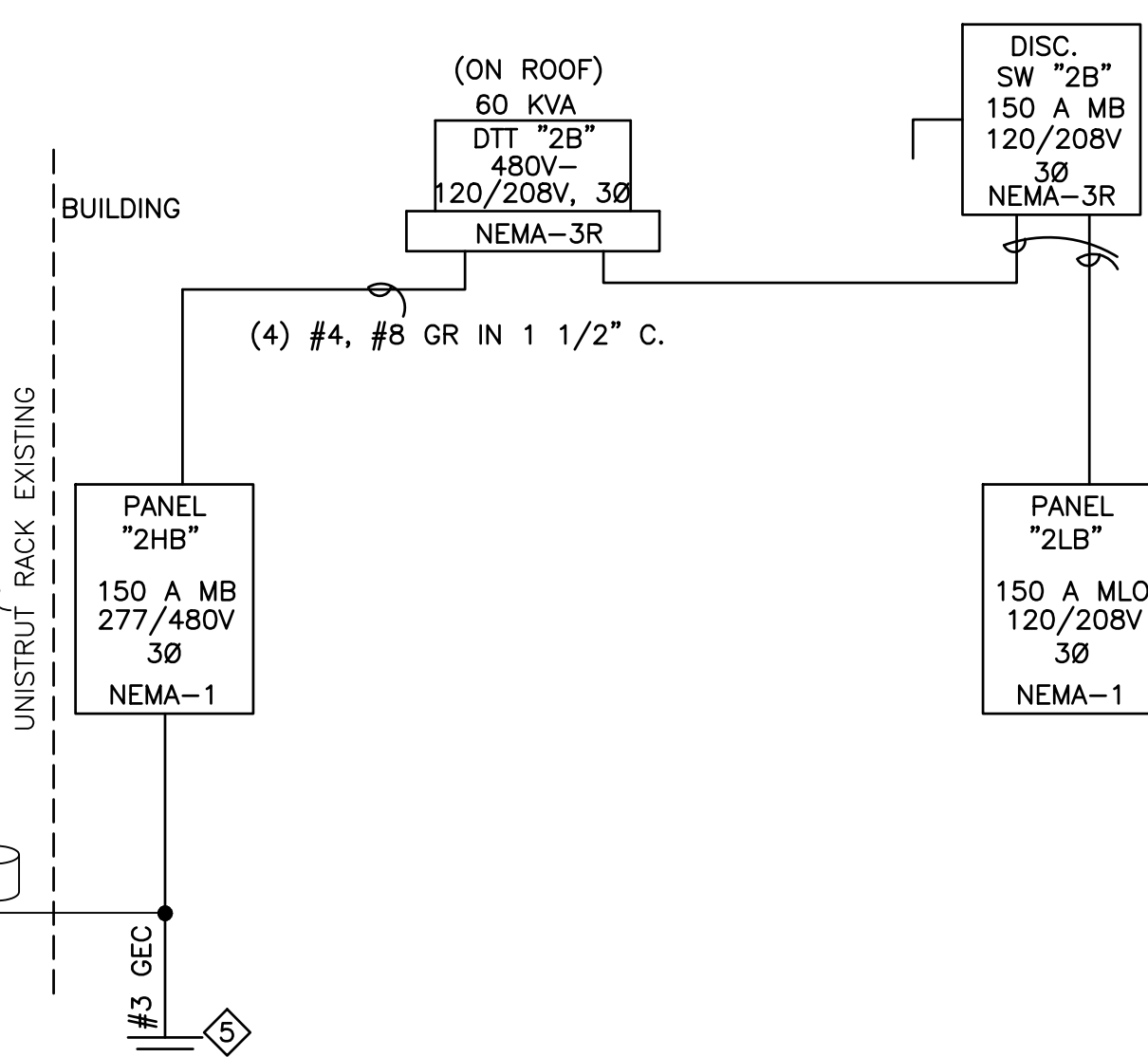
RISE R DIAGRAM NOTES:

- ① PROVIDE INSTALLATION TO MEET CITY OF SAN ANGELO CODES & 2008 NEC.
- ② ALL PANEL BUSES AND CONNECTIONS TO BE COPPER.
- ③ PANELBOARDS TO BE SQUARE D TYPE NF OR EQUAL FOR 480V PANELS, NQ OR EQUAL FOR 208V PANELS. PANELS HAVE UL RATING FOR 22,000 AIC FOR 480V. OUTDOOR DISC. SWITCHES TO HAVE UL INTERRUPTING RATING OF 22,000 AIC.
- ④ PROVIDE OUTSIDE MAIN DISCONNECT TO MEET CITY OF SAN ANGELO CODE.
- ⑤ PERFORM ALL GROUNDING WORK IN ACCORDANCE WITH NEC ARTICLE 250. ALL CONNECTIONS TO GROUND BUS TO BE MADE WITH EXOTHERMIC WELD PROCESS OR POWER COMPRESSION FITTINGS. INSTALL 3/4" X 10' COPPER CLAD STEEL GROUND ROD FOR GROUNDING ELECTRODE. IF NOT EXISTING AT MAIN SERVICE ENTRANCE.
- ⑥ BALANCE PHASES AT FULL LOAD TO MAINTAIN MAXIMUM 20% UNBALANCE.
- ⑦ BOND ALL GROUNDS TOGETHER WITH BASE #2 CONDUCTOR.



ELECTRICAL RISER DIAGRAM, DETAILS & SCHEDULES

SCALE: NONE



MEP PROJECT #1618

Power Systems

P.O. Box 2863

San Angelo, Texas 76902
325-659-2235

FIRM NO. F-6257

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DE ACT.

ORDINANCES

ING THE PROJECT, IF IN ANY INSTANCE THE PLANS
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SHALL HAVE JURISDICTION.

Revised _____

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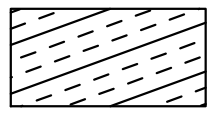
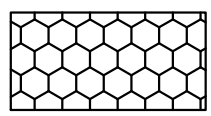
RIO CONCHO COMMUNITY CITY PARK

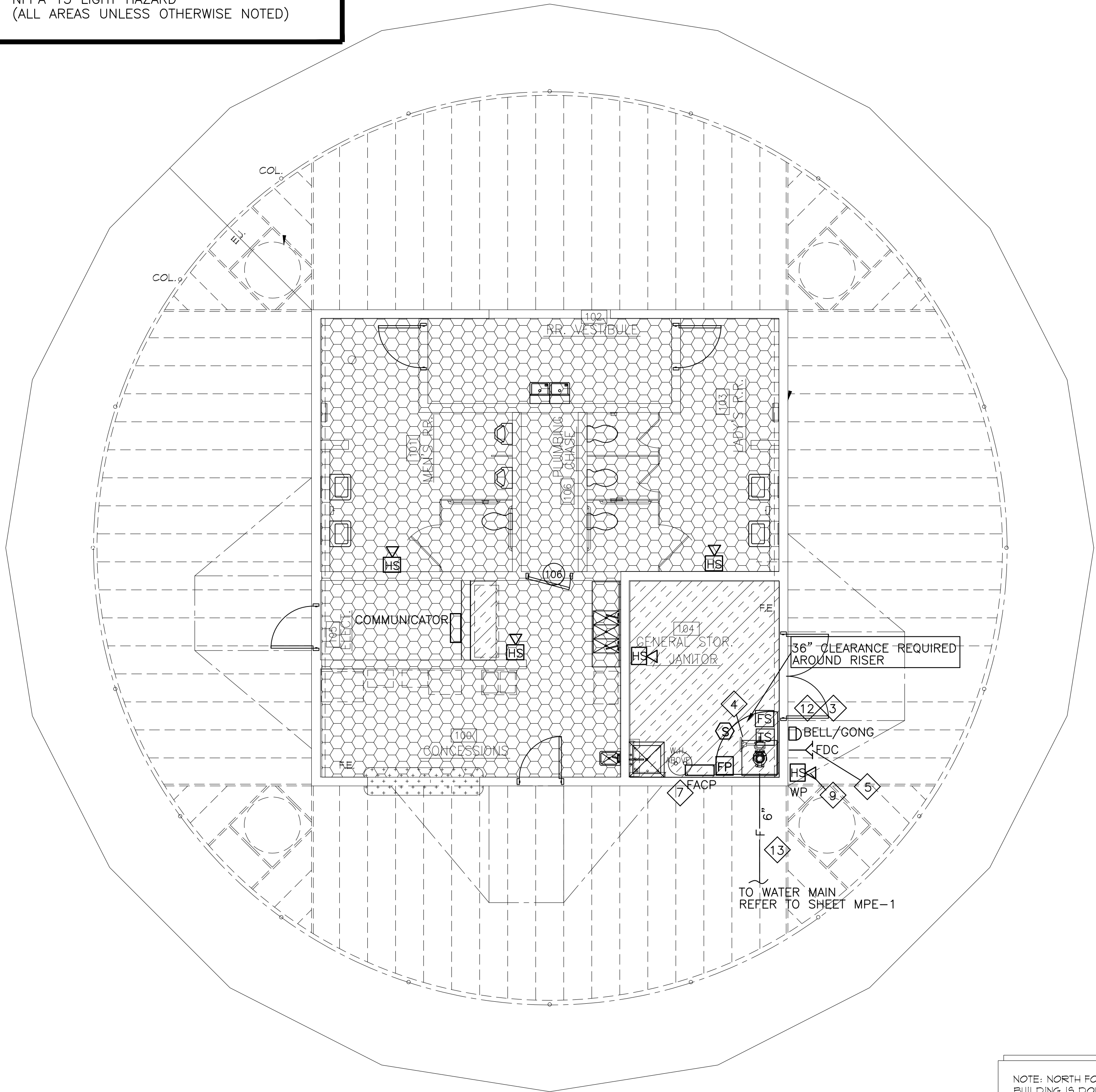
TEXAS BANK SPORTS COMPLEX

CONCESSION BUILDING #2
City of San Angelo, Texas

Project No.	250-02-0516
Date	SEPTEMBER 14, 2016

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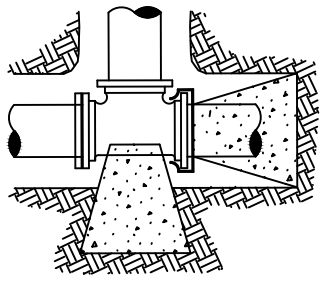
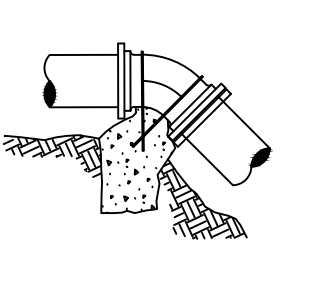
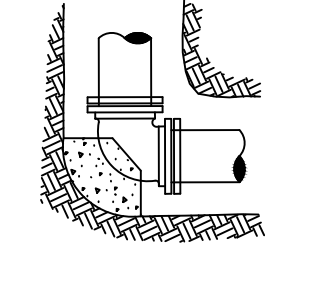
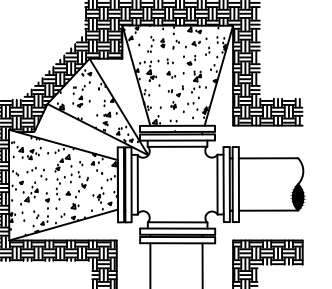
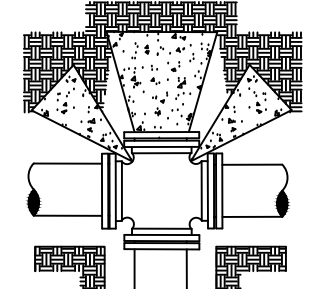
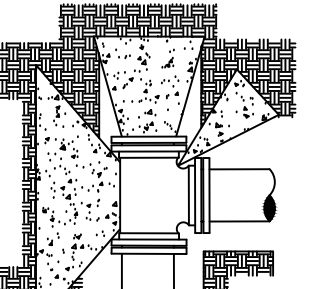
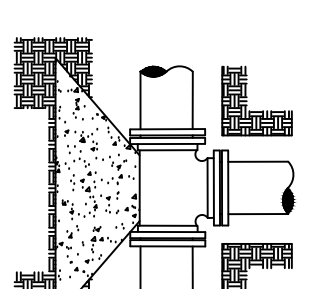
	NFPA ORDINARY HAZARD GROUP 1
	NFPA 13 LIGHT HAZARD (ALL AREAS UNLESS OTHERWISE NOTED)



FIRE PROTECTION PLAN

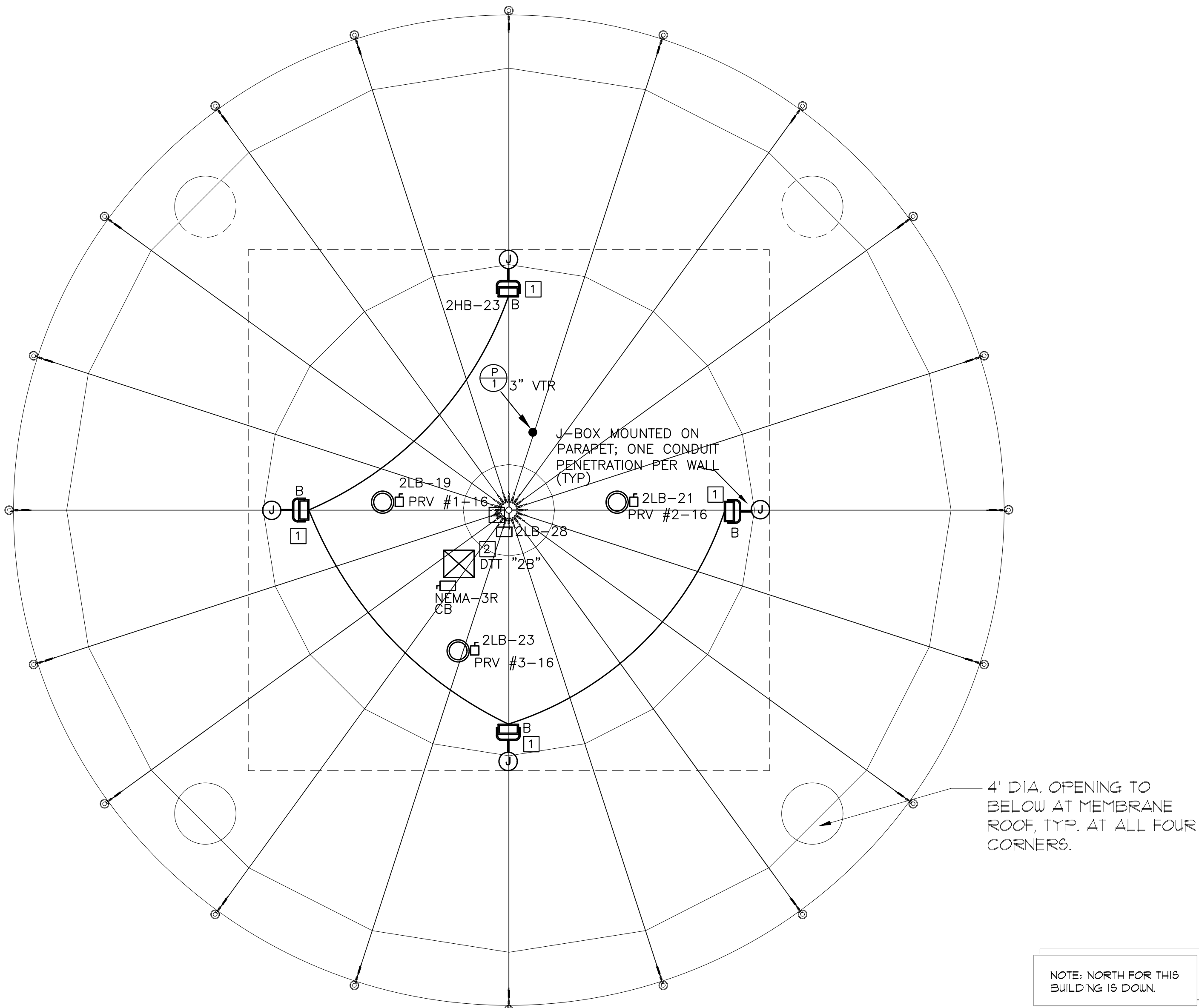
NOTES:

- PIPE SIZES SHOWN FOR REFERENCE BASED ON PRELIMINARY CALCULATIONS ONLY. ENTIRE HATCHED AREAS ON PLAN SHALL BE HYDRAULICALLY CALCULATED AS FOLLOWS:
FOR LIGHT HAZARD OCCUPANCIES, PROVIDE MINIMUM DENSITY OF 0.1 GPM PER S.F. FOR ORDINARY HAZARD GROUP 2, PROVIDE MINIMUM DENSITY OF 0.2 GPM PER S.F. ENTIRE SPRINKLER INSTALLATION SHALL BE IN ACCORDANCE WITH LATEST EDITION OF NFPA 13. SYSTEM SHALL ALSO INCLUDE 100 GPM FOR OUTSIDE HOSE STREAM.
- COORDINATE SPRINKLER PIPING AND SPRINKLER HEADS WITH ARCHITECTURAL, STRUCTURAL, HVAC, PLUMBING AND ELECTRICAL WORK.
- PROVIDE DRAIN VALVE AND MAIN DRAIN FOR SYSTEM IN STORAGE ROOM. TERMINATE DISCHARGE LINE OUTDOORS.
- WET PIPE FIRE SPRINKLER RISER: REFER TO DETAIL, THIS SHEET.
- LOCATION OF FIRE DEPARTMENT CONNECTION.
- REFER TO THIS SHEET FOR THRUST BLOCK DETAILS.
- SMOKE DETECTOR TO BE INSTALLED ABOVE FACP. INSTALL FACP ADJACENT TO RISER.
- CONTRACTOR IS RESPONSIBLE TO REFER TO ALL DRAWINGS, INCLUDING ARCHITECTURAL, STRUCTURAL& MEP TO DETERMINE COMPLETE SCOPE OF WORK.
- EXTERIOR WEATHERPROOF HORN TO BE FURNISHED & INSTALLED BY FIRE ALARM CONTRACTOR. TIE TO FACP.
- BUILDING IS LIGHT HAZARD DESIGN UNLESS OTHERWISE NOTED, OR OTHERWISE REQUIRED BY NFPA 13. CONTRACTOR IS RESPONSIBLE TO PROVIDE CORRECT DENSITY AND COVERAGE TO MEET CODE AND THE REQUIREMENTS OF THE AHJ. SPRINKLER THE ATTIC.
- FLOW TEST INFORMATION IS NOT AVAILABLE.
- INSTALL WATER MOTOR GONG AT 9'-0" AFF ON EXTERIOR WALL ABOVE FDC. WATER MOTOR GONG SHALL BE PROVIDED BY FIRE SPRINKLER CONTRACTOR AND IS REQUIRED FOR THE PROJECT.
- INSTALL 6" C900 PVC FIRE LINE COMPLETE WITH CITY CONNECTION IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS. THIS WORK TO BE DONE BY LICENSED CONTRACTOR FOR FIRE SPRINKLER INSTALLATION. PROVIDE TEST CERTIFICATES PER NFPA 13.

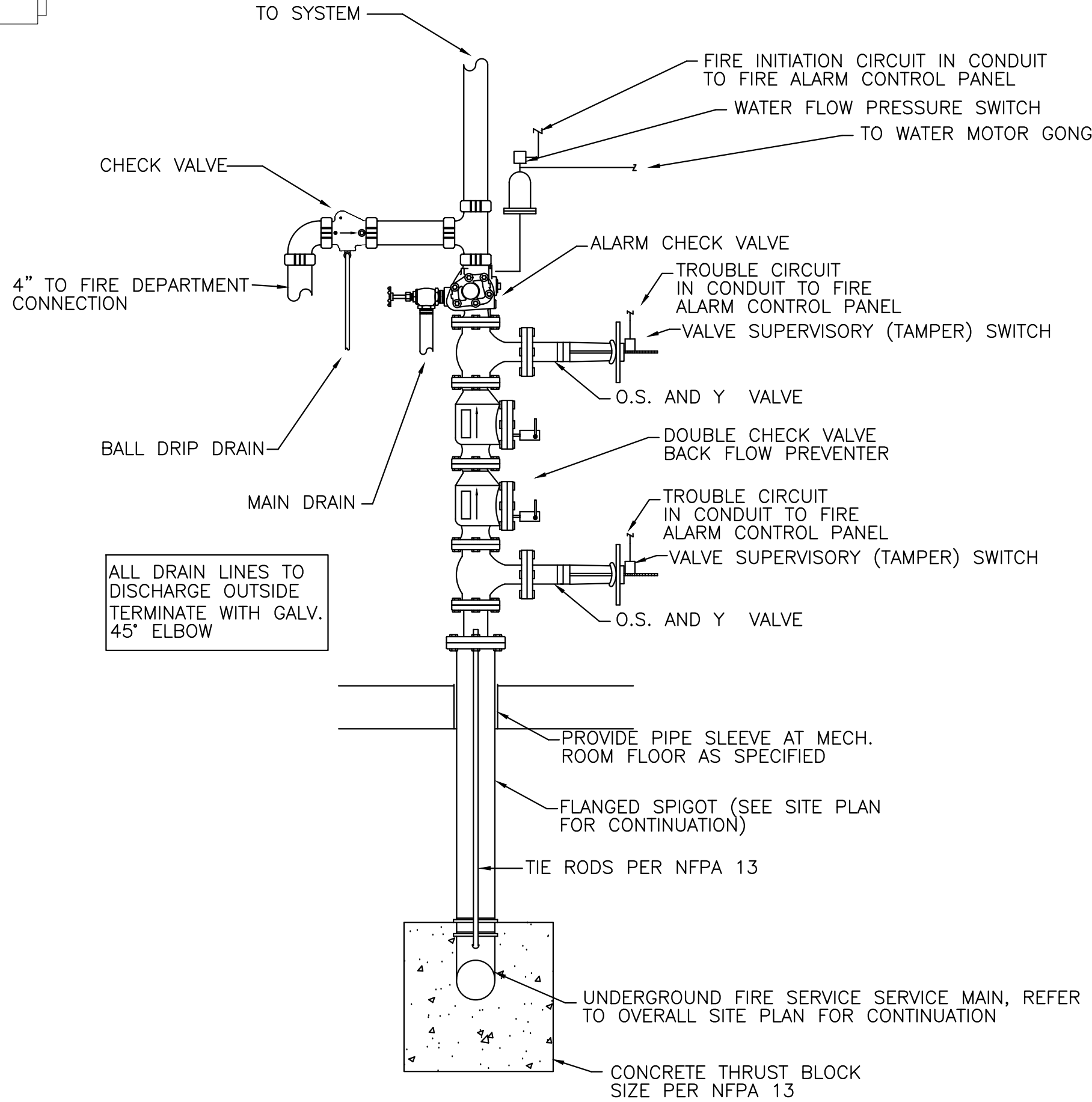
																													
	<table> <tr> <th colspan="3">MINIMUM THRUST BLOCK AREA</th></tr> <tr> <th>PIPE SIZE</th><th>TEE DEAD END AND 45° BEND</th><th>45° AND 90° BEND 22.5° BEND</th></tr> <tr> <td>4"</td><td>3 SQ.FT.</td><td>3 SQ.FT.</td></tr> <tr> <td>6"</td><td>4 SQ.FT.</td><td>3 SQ.FT.</td></tr> <tr> <td>8"</td><td>6 SQ.FT.</td><td>3 SQ.FT.</td></tr> <tr> <td>10"</td><td>9 SQ.FT.</td><td>5 SQ.FT.</td></tr> <tr> <td>12"</td><td>12 SQ.FT.</td><td>7 SQ.FT.</td></tr> <tr> <td>16"</td><td>23 SQ.FT.</td><td>12 SQ.FT.</td></tr> <tr> <td>18"</td><td>29 SQ.FT.</td><td>15 SQ.FT.</td></tr> </table>	MINIMUM THRUST BLOCK AREA			PIPE SIZE	TEE DEAD END AND 45° BEND	45° AND 90° BEND 22.5° BEND	4"	3 SQ.FT.	3 SQ.FT.	6"	4 SQ.FT.	3 SQ.FT.	8"	6 SQ.FT.	3 SQ.FT.	10"	9 SQ.FT.	5 SQ.FT.	12"	12 SQ.FT.	7 SQ.FT.	16"	23 SQ.FT.	12 SQ.FT.	18"	29 SQ.FT.	15 SQ.FT.	
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	NOTE: ALL FITTINGS SHALL BE COVERED WITH A GEOTEXTILE FABRIC PRIOR TO POURING CONCRETE THRUST BLOCKING																												

Underground Notes:
All material to be UL/FM approved for fire service.
All underground to comply with N.F.P.A. #24.
Concrete thrust block to be provided at all changes in pipe direction.
Minimum bury depth to be 36" to top of pipe.
New underground pipe to tested at 200psi for 2hrs.
All underground fittings to be mechanical joint, UNO.

ROOF/FIRE PROTECTION PLAN - COMPLEX #2
SCALE: 3/16" = 1'-0"



ROOF PLAN



FIRE SPRINKLER SYSTEM RISER DETAIL - NFPA 13
NO SCALE

NOTES INDICATED BY "□":

- CROSS AIM FIXTURES TYPE "B" TO PROVIDE A MORE UNIFORM LIGHTING. TILT & AIM EACH EACH FIXTURE TO OPPOSITE ROOF SURFACE.
- PROVIDE CURB FOR STEPDOWN XFMR ON ROOF. ALL PENETRATIONS THRU ROOF TO BE MADE THROUGH CURB.
- PROVIDE SECURE BLOCKING FOR FAN MOUNTING.
- THE IT DEPARTMENT WILL MOUNT AN ANTENNA ON THE CENTER POLE OF THE BUILDING TO PROVIDE A WIRELESS CONNECTION WITH COMPLEX #3. PROVIDE AND INSTALL A SMALL ROOF VAULT EQUAL TO ROOF PENETRATION HOUSINGS SERIES AWI-161010, SMALL ALUMINUM ROOF PENETRATION WITH STAINLESS STEEL FRAME AND SILX14 GASKETS. PROVIDE ONE WEATHERPROOF DUPLEX ELECTRICAL RECEPTACLE WITH EXTRA DUTY IN-USE COVER AND ANY COMMUNICATIONS OR DATA CONNECTIONS OR TERMINATIONS REQUIRED BY THE COSA IT DEPT. ROOFING CONTRACTOR SHALL INSTALL THE ASSOCIATED CURB TO THE ROOF DECK.

MEP PROJECT #1618

Power Systems

P.O. Box 2863
San Angelo, Texas 76902
325-639-2235
FIRM NO. P-0257

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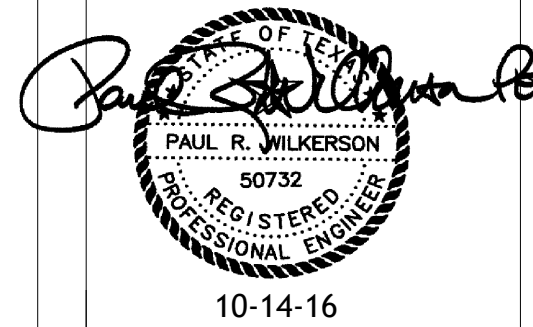
CIVIL ENGINEER
SKG ENGINEERING

POWER SYSTEMS
MECHANICAL ENGINEER

STRUCTURAL ENGINEER
SKG ENGINEERING

kinney • franke ARCHITECTS AIA

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RIO CONCHO COMMUNITY CITY PARK

TEXAS BANK SPORTS COMPLEX

CONCESSION BUILDING #2

City of San Angelo, Texas

Project No. 250-02-0516

Date SEPTEMBER 14, 2016

Sheet Number

FP-1

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