



ADDENDUM NO: TWO (2)

TO THE BID DOCUMENTS FOR:

CSP: 25-74, ECISD HIGH SCHOOL ATHLETIC MULTI-USE BUILDINGS

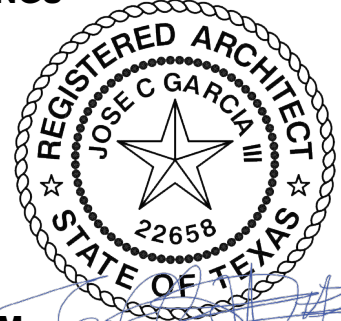
6-4-2025

- EDINBURG NORTH HIGH SCHOOL

JUNE 3, 2025

CG5 ARCHITECT LLC

1314 E 22ND ST
MISSION, TX 78572



BID DATE & TIME: **BID DATE AND TIME: JUNE 12TH, 2025, 4:00PM**
UNCHANGED BY THIS ADDENDUM

This addendum is generally separated into sections for convenience. All Contractors, Subcontractors, Materialmen, and/or other parties interested in submitting a bid/proposal shall be responsible for reading and understanding the entire addendum. All information presented in any place or any time in this addendum shall be attached to and become a part of the Contract Documents for this project.

A. REQUEST FOR CLARIFICATION ITEMS:

1. What is the Backfill elevation to be met for Edinburg North and Edinburg High?

Response:

- a. REMOVE AT LEAST 30 INCHES OF TOP SOIL, VEGETATION, DEBRIS, ETC., FROM THE PROPOSED BUILDING AREA TO A DISTANCE OF 5'-0" OUTSIDE THE BUILDING LINE. CONDITION & COMPACT TWELVE INCHES OF SUBGRADE BELOW EXCAVATED SOILS.
- b. REPLACE EXCAVATED AREA WITH APPROVED SELECT FILL MIN. 48" UNDER ALL FLOORS AND WALKS TO 98% (+ 5%) OF THE MAXIMUM DENSITY AT -2% TO +3% OF THE OPTIMUM MOISTURE CONTENT, IN ACCORDANCE WITH TEST METHOD ASTM D-698, PRIOR TO PLACEMENT OF SELECT FILL.
- c. FILL BACK TO REQUIRED GRADE (A MINIMUM OF 48" OF SELECT FILL IS REQUIRED. SEE CIVIL PLANS FOR FINISHED FLOOR ELEVATION TO DETERMINE ADDITIONAL AMOUNT OF SELECT FILL) WITH MATERIAL SELECTED AND COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS BELOW.

2. Are there any division 8 and 10 specifications for this project?

- a. **Response: Division 8 and 10 items are noted/specified as Basis of Design or Equal on drawings. No Specifications issued.**

B. PROJECT MANUAL / SPECIFICATION ITEMS:

NONE



C. PLAN DRAWING ITEMS:

ARCHITECTURAL:

1. INCLUDE G1.3 NEW CODE REVIEW SHEET included herein
2. REPLACE Sheet G0.0 with Sheet G0.0 NEW COVER SHEET included herein
3. REPLACE Sheet A2.0 with Sheet G2.0 NEW FLOOR PLAN BASE BID included herein
4. REPLACE Sheet A2.0A with Sheet A2.0A NEW FLOOR PLAN ALTERNATE included herein
5. REPLACE Sheet A2.1 with Sheet A2.1 NEW ROOF PLAN BASE BID included herein
6. REPLACE Sheet A2.1A with Sheet A2.1A NEW ROOF PLAN ALTERNATE included herein
7. REPLACE Sheet A3.0 with Sheet A3.0 EXTERIOR ELEVATIONS included herein
8. REPLACE Sheet A4.0A with Sheet A4.0A NEW BUILDING SECTIONS ALTERNATE included herein
9. REPLACE Sheet A4.1 with Sheet A4.1 NEW WALL SECTIONS AND DETAILS BASE-BID included herein
10. REPLACE Sheet A7.0 with Sheet A7.0 NEW DOOR SCHEDULE included herein
11. REPLACE Sheet A0.1 with Sheet A0.1 SITE PLAN included herein

STRUCTURAL:

1. REPLACE Sheet S1.0 with Sheet S1.0 included herein
2. REPLACE Sheet S1.1 with Sheet S1.1 included herein
3. REPLACE Sheet S1.2 with Sheet S1.2 included herein
4. REPLACE Sheet S2.0 with Sheet S2.0 included herein
5. REPLACE Sheet S3.0 with Sheet S3.0 included herein
6. REPLACE Sheet S3.1 with Sheet S3.1 included herein
7. REPLACE Sheet SD1.0 with Sheet SD1.0 included herein
8. REPLACE Sheet SD2.0 with Sheet SD2.0 included herein

MEP:

1. REPLACE Sheet M1.1 with Sheet M1.1 included herein
2. REPLACE Sheet M2.0 with Sheet M2.0 included herein
3. REPLACE Sheet M3.0 with Sheet M3.0 included herein
4. REPLACE Sheet E1.1 with Sheet E1.1 included herein
5. REPLACE Sheet E1.2 with Sheet E1.2 included herein

D. OTHER ITEMS:

NONE

END OF ADDENDUM NO 2



EDINBURG HIGH SCHOOL

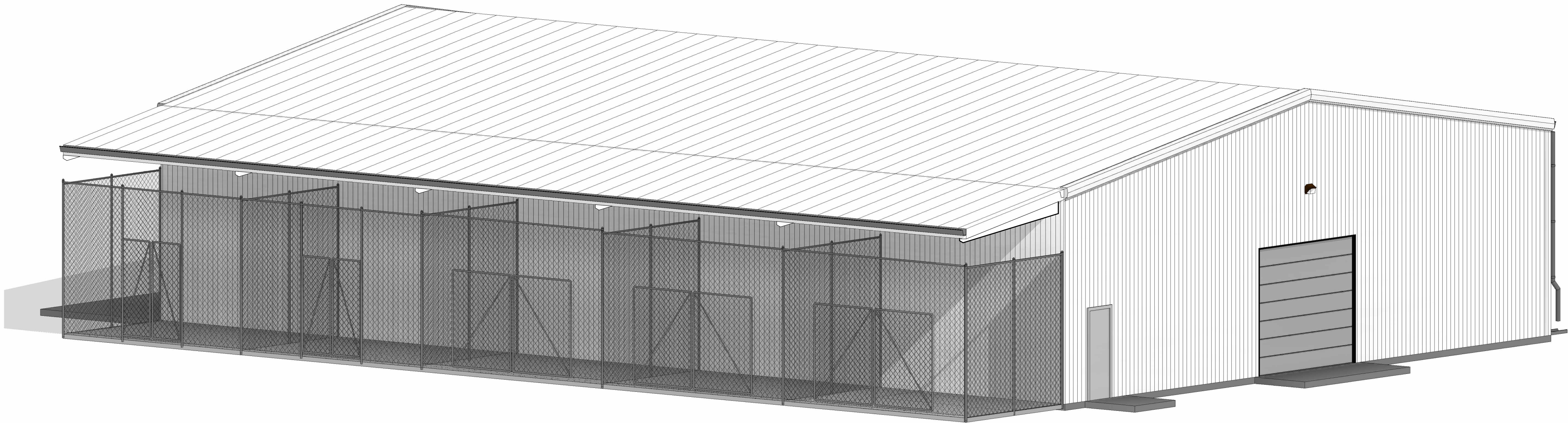


ECISD HIGH SCHOOL ATHLETIC MULTI-USE BUILDING

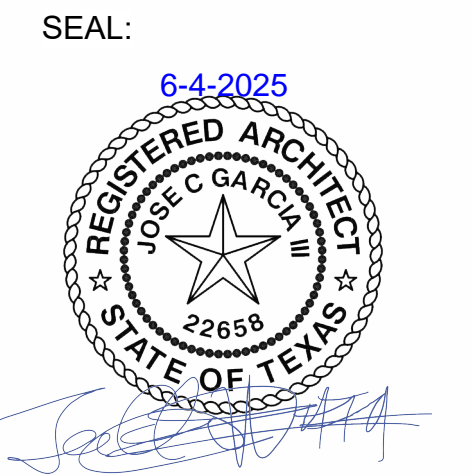
411 N 8TH AVE, EDINBURG,
TX 78541

EDINBURG HIGH SCHOOL

ECISD CSP 25-74



TEXAS ARCHITECT
FIRM No: BR4247
WWW.CG5ARCHITECT.COM



ECISD HIGH
SCHOOL
ATHLETIC
MULTI-USE
BUILDING
ECISD CSP 25-74

EDINBURG
HIGH SCHOOL

2600 E
Wisconsin Rd,
Edinburg, TX
78542

CLIENT:
EDINBURG CISD

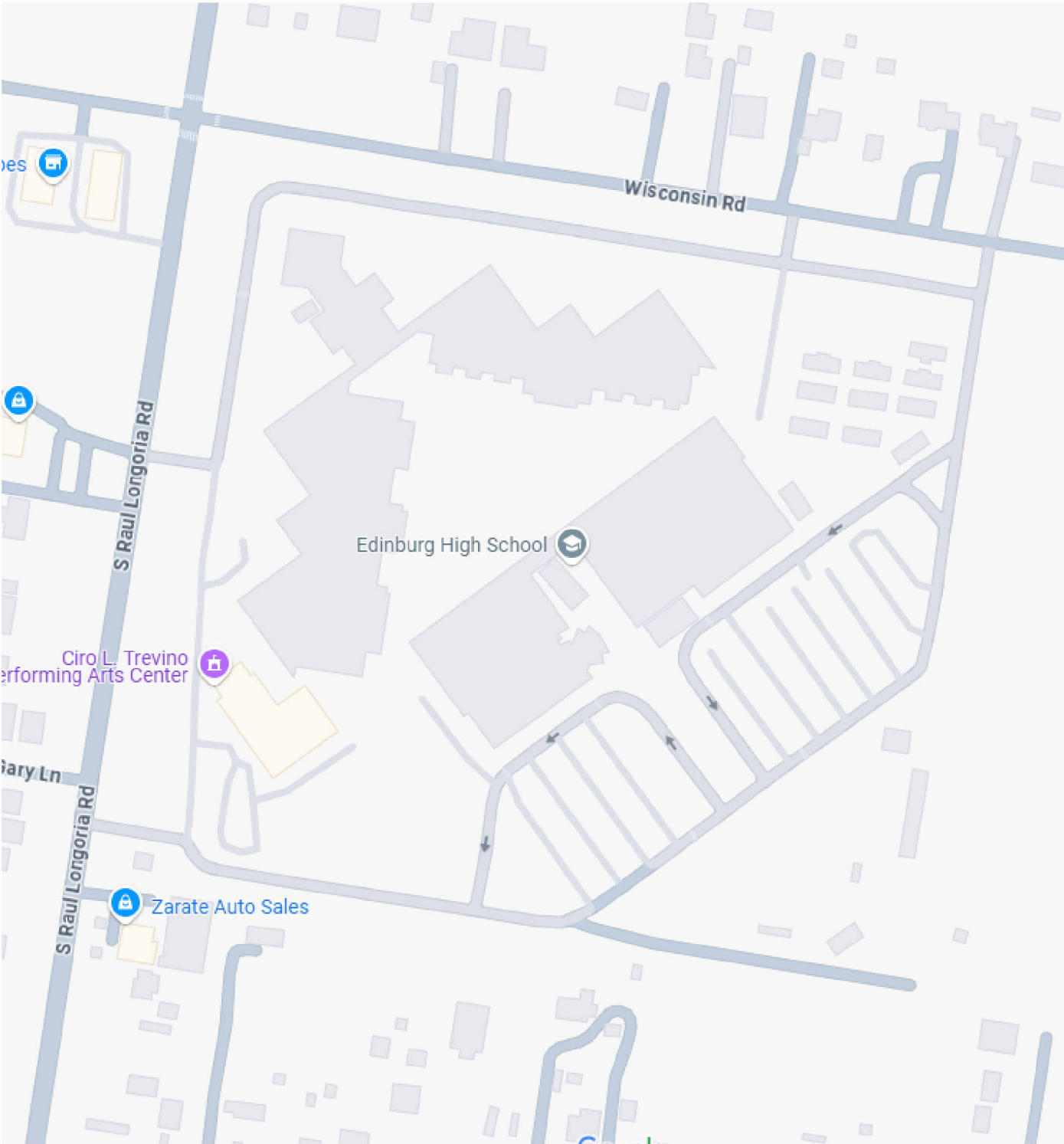
REVISION:		
No.	Description	Date
1	AS1 1	5/28/2025

PROJECT #: 25-030102
DRAWN BY: EC
CHECKED BY: CG3
DATE: 5/28/2025

COVER PAGE

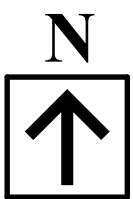
G0.0

VICINITY MAP:



GENERAL INFO:

EDINBURG HIGH SCHOOL:
2600 E Wisconsin Rd, Edinburg, TX 78542



INDEX OF DRAWINGS	
Sheet Number	Sheet Name
GENERAL	
G0.0	COVER PAGE
G1.0	ADA INFORMATION
G1.1	ADA INFORMATION
G1.2	ADA INFORMATION
G1.3	CODE REVIEW PLAN
STRUCTURAL	
A3.1	ALTERNATE ROOF FRAMING PLAN
S1.0	GENERAL NOTES
S1.1	GENERAL NOTES
S1.2	GENERAL NOTES
S2.0	FOUNDATION PLAN
S3.0	ROOF FRAMING PLAN
S3.1	ALTERNATE ROOF FRAMING PLAN
SD1.0	DETAILS

INDEX OF DRAWINGS	
Sheet Number	Sheet Name
ARCHITECTURAL	
SD2.0	DETAILS
A2.0	FLOOR PLAN BASE BID
A2.0A	FLOOR PLAN ALTERNATE
A2.1	ROOF PLAN BASE BID
A2.1A	ROOF PLAN ALTERNATE
A2.3	REFLECTED CEILING PLAN BASE BID
A2.3A	REFLECTED CEILING PLAN ALTERNATE
A3.0	EXTERIOR ELEVATIONS BASE BID
A3.0A	EXTERIOR ELEVATIONS ALTERNATE
A4.0	BUILDING SECTIONS BASE BID
A4.0A	BUILDING SECTIONS ALTERNATE
A4.1	WALL SECTIONS AND DETAILS BASE BID

INDEX OF DRAWINGS	
Sheet Number	Sheet Name
MEP	
A7.0	DOOR SCHEDULE
E0.0	ELECTRICAL NOTES
E1.0	ELECTRICAL SITE
E1.1	ELECTRICAL POWER
E1.2	ELECTRICAL LIGHTING
E2.0	ELECTRICAL ONE-LINE DIAGRAM
E3.0	ELECTRICAL SCHEDULES
E4.0	ELECTRICAL DETAILS
E5.0	ELECTRICAL SPECIFICATIONS
E5.1	ELECTRICAL SPECIFICATIONS
M0.0	MECHANICAL LEGEND
M1.0	MECHANICAL SITE
M1.1	MECHANICAL FLOOR PLAN
M2.0	MECHANICAL SCHEDULES
M3.0	MECHANICAL DETAILS

ARCHITECT



901 LINDBURG AVE
MCALLEN, TX 78502
(956) 239-2438
charlie@cg5architect.com
www.cg5architect.com

PROJECT INFORMATION

ADDRESS:	2600 E Wisconsin Rd, Edinburg, TX 78542
ARCHITECT OF RECORD:	JOSE CARLOS GARCIA III, RA, AIA TBAE: # 22658 TBAE FIRM: BR 4247 CG5 ARCHITECT LLC 1314 E 22ND ST, MISSION, TX, 78572
OWNER:	EDINBURG CISD
PROJECT DESCRIPTION:	MULTIPURPOSE BUILDINGS

CIVIL



2105 S. JACKSON RD.
EDINBURG, TX 78539
(956) 281-1818

STRUCTURAL



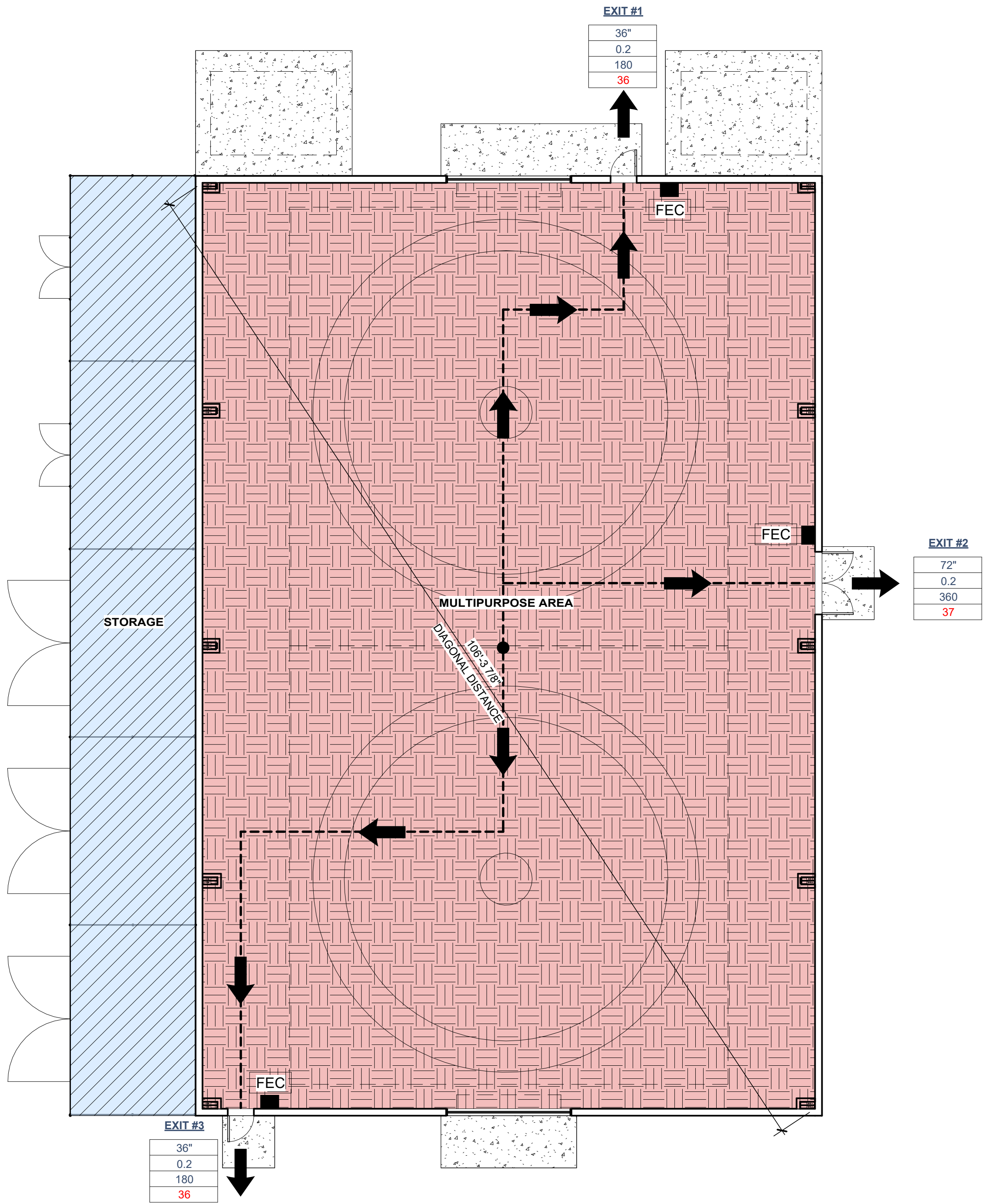
701 S 15TH ST.
MCALLEN, TX 78501
(956) 687-5560
www.clhengineeringinc.com

M.E.P.



1706 MILLER AVE.
DONNA, TX 78537
956.472.5161
www.vme-engineering.com

ECISD HIGH SCHOOL ATHLETIC MULTI-USE BUILDING



PROJECT INFORMATION		BUILDING ANALYSIS		PARKING REQUIREMENTS		PLUMBING REQUIREMENTS	
<div>LOCATION:2600 E Wisconsin Rd, Edinburg, TX 78542</div>		<div>OCCUPANCY ANALYSIS</div> <div>PROPOSED OCCUPANCY:ASSEMBLY "A-3"</div> <div>CONSTRUCTION TYPE:V B</div> <div>ALLOWABLE BUILDING STORIES:1</div> <div>PROPOSED STORIES:1</div> <div>ALLOWABLE BUILDING HEIGHT:40 FT</div> <div>ACTUAL BUILDING HEIGHT:22 FT</div> <div>ALLOWABLE BUILDING AREA:6,000 SF</div> <div>TOTAL BUILDING AREA:5,400 SF</div>		<div>PARKING REQUIREMENTS:</div> <div>EXISTING PARKING PROVIDED</div>		<div>CITY OF EDINBURG (IPC 2018)</div> <div>EXISTING RESTROOM FIXTURES PROVIDED AT ADJACENT BUILDING. PATH OF TRAVEL NO MORE THAN 500FT MAX.</div> <div>PROPOSED PATH OF TRAVEL: 312 FT</div>	
<div>ARCHITECT OF RECORD:JOSE CARLOS GARCIA III, RA, AIA</div> <div>TBAE: # 22658</div> <div>TBAE FIRM: BR 4247</div> <div>CG5 ARCHITECT LLC</div> <div>1314 E 22ND ST.</div> <div>MISSION, TX, 78572</div>		<div>EXITING ANALYSIS</div>				<div>EXISTING RESTROOMS TO REMAIN</div>	
<div>OWNER:ECISD</div>		<div>NUMBER OF EXITS:</div> <div>PROVIDED3REQUIRED3</div>				<div>REQ'D PROVIDED</div> <div>W.C. MEN3W.C. WOMEN3LAVATORY4</div>	
<div>PROJECT DESCRIPTION:</div> <div>NEW ATHLETIC MULTI-USE BUILDING</div>		<div>PANIC HARDWARE REQUIRED AT ALL EXITS</div>				<div>DRINKING FOUNTAIN2SERVICE SINK1</div>	
CONSTRUCTION COMPONENTS		APPLICABLE CODES		FIRE SAFTY COMPONENTS			
<div>MATERIALS</div> <div><ul style="list-style-type: none">STEEL STRUCTURAL FRAMEMETAL STUD INTERIOR FRAMINGMETAL EXTERIOR FINISH</div>		<div>2018 INTERNATIONAL BUILDING CODE</div> <div>2018 INTERNATIONAL PLUMBING CODE</div> <div>2018 INTERNATIONAL FUEL GAS CODE</div> <div>2017 NATIONAL ELECTRICAL CODE</div> <div>2018 INTERNATIONAL MECHANICAL CODE</div> <div>2018 INTERNATIONAL FIRE CODE</div>		<div>FIRE SPRINKLER REQUIRED:NO</div> <div>FIRE SPRINKLER PROVIDED:NO</div> <div>FIRE RATING REQUIREMENTS</div> <div>PRIMARY STRUCTURAL FRAME:NO FIRE RATING REQ'D</div> <div>BEARING WALLS EXTERIOR:NO FIRE RATING REQ'D</div> <div>BEARING WALLS INTERIOR:NO FIRE RATING REQ'D</div> <div>NONBEARING WALL EXTERIOR:NO FIRE RATING REQ'D</div> <div>NONBEARING WALL INTERIOR:NO FIRE RATING REQ'D</div> <div>FLOOR CONSTRUCTION:NOT APPLICABLE</div> <div>ROOF CONSTRUCTION:NO FIRE RATING REQ'D</div>			

CODE GENERAL NOTES

1. SEPARATE REVIEW, APPROVAL, AND PERMITS ARE REQUIRED FOR GRADING, ACCESSORY BUILDINGS & STRUCTURES, SIGNS, TRASH ENCLOSURES, BLOCK WALLS, RETAINING WALLS NOT SUPPORTING BUILDINGS, AND DEMOLITION WORK. CONTACT CITY FOR PROCEDURAL INFORMATION.

2. PROJECT INFORMATION AND CODE GENERAL NOTES ARE INTENDED FOR CODE COMPLIANCE SUCH AS OVERALL OCCUPANCY, EGRESS INFORMATION, FIRE SEPARATION AND GENERAL INFORMATION ONLY.

3. A FIRE SYSTEM APPROVED BY THE FIRE MARSHALL SHALL BE PROVIDED. AUDIBLE ALARM DEVICES SHALL BE USED IN ALL AREAS.

4. AN OCCUPANT LOAD SIGN SHALL BE POSTED IN ANY ROOM WITH AN OCCUPANT LOAD OVER 50. THE SIGN IS REQUIRED TO BE POSTED AT OR NEAR THE MAIN EXIT.

5. PROVIDE PANIC HARDWARE FOR GROUP "A" OCCUPANCIES WITH AN OCCUPANT LOAD OF 50 OR MORE.

6. MARKING OF FIRE RATED AND SMOKE STOP PARTITIONS: ALL SMOKE STOP PARTITIONS, HORIZONTAL EXIT ENCLOSURES, AND FIRE WALLS MUST BE PERMANENTLY MARKED ABOVE CEILINGS AS FOLLOWS: "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS". LETTERS SHALL BE 2 1/2" IN HEIGHT AND PAINTED RED. PROVIDE ONE LABEL PER STRUCTURAL BAY.

CODE COIMPLICANCE LEGEND

CODE COMPLIANCE LEGEND

SYMBOL	DESCRIPTION	COMMENTS
➡	EGRESS EXIT PATH	
FEC	FIRE EXTINGUISHER	F.E. Type - 10# ABC, Amerex Model #419 or equal, Installed in Semi-Recessed cabinet

OCCUPANT TRAVEL DISTANCE:

EA: ➡ EXIT ACCESS TRAVEL PATH
MAX: 250'-0" ➡ EXIT MAXIMUM TRAVEL DISTANCE (IBC TABLE 1017.2)

EXIT # TAG:

EXIT #	EXIT NUMBER
72"	PROVIDED EXIT WIDTH
0.2	OCCUPANT LOAD FACTOR
360	MAXIMUM OCCUPANTS
87	ACCUMULATED OCCUPANTS EXITING

BUILDING OCCUPANCY TOTAL:

CALCULATED AREA SF	OCCUPANTS	FUNCTIONS OF SPACE PER OCCUPANCY TABLE
5,202 SF	105	EXERCISE ROOM (50 GROSS)
1,080	4	STORAGE (300 GROSS)
TOTAL OCCUPANTS:		109

VICINITY MAP

PROPOSED ATHLETIC MULTI-USE BUILDING

2600 E Wisconsin Rd, Edinburg, TX 78542

TRUE NORTH

TEXAS ARCHITECT

FIRM No: BR4247

WWW.CG5ARCHITECT.COM

SEAL:

6-4-2025

REGISTERED ARCHITECT

JOSE C GARCIA III

22658

STATE OF TEXAS

ECISD HIGH SCHOOL ATHLETIC MULTI-USE BUILDING

ECISD CSP 25-74

EDINBURG HIGH SCHOOL

2600 E Wisconsin Rd, Edinburg, TX 78542

CLIENT:

EDINBURG CISD

REVISION:

No.	Description	Date
1	ASI 1	5/28/2025

PROJECT #: 25-030102

DRAWN BY: EC

CHECKED BY: CG3

DATE: 5/28/2025

CODE REVIEW PLAN

G1.3



2

ENLARGE SITE PLAN
3/64" = 1'-0"

N

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EDINBURG HIGH SCHOOL

GENERAL NOTES:

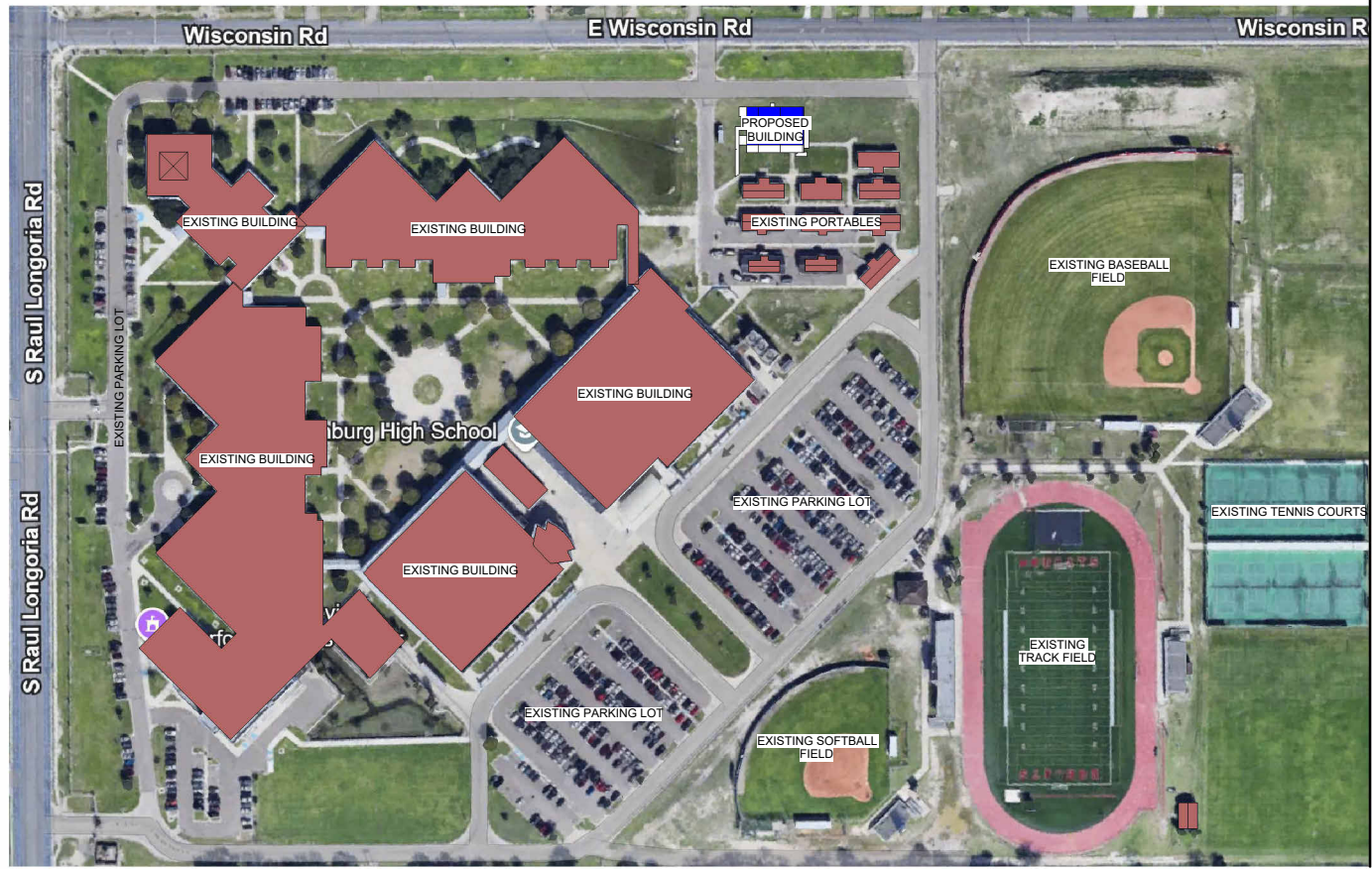
1. OWNER WILL PROVIDE SOILS TESTS PRIOR TO FOUNDATION WORKS.
2. PROVIDE SIDEWALK AS PART OF BASE BID.
3. FOR UTILITIES, RE: MEP & CIVIL
4. WARNING:
CONTACT AEP FOR ELECTRICAL SERV. & CITY OF EDINBURG FOR WATER & SEWER UTILITIES.
CONTRACTOR TO VERIFY EXISTING UTILITIES
5. ALL CONSTRUCTION AND MATERIALS FOR DRAINAGE, GRADING AND PAVING TO BE IN ACCORD WITH "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION".
6. CONTRACTOR IS RESPONSIBLE FOR ALL HORIZONTAL AND VERTICAL CONTROL FOR CONSTRUCTION.
7. CONTRACTOR IS RESPONSIBLE FOR PAYING ANY FEES FOR PERMITS AS REQUIRED FOR THIS CONSTRUCTION
8. CONTRACTOR TO SET CONTROL GRADES AT 25' INTERVALS ALONG ALL PAVING FLOW LINES
9. ANY DAMAGE TO EXISTING UTILITIES BY CONTRACTOR TO BE FIXED
10. PROVIDE JOB SIGN RE:
11. ALL SOIL PLACED ONTO SITE IS TO BE COMPACTED TO 80% DENSITY, EXCEPT UNDER ANY PAVING COMPACTION IS TO BE 95%, U.N.O.
12. ALL PIPES SLEEVES SHALL BE SCH 40 PVC. AND FURNISHED IN PLACE BY THE CONTRACTOR BEFORE PAVING.
13. 6" CONC. CURB & 12" GUTTER
14. CONTRACTOR TO PROVIDE A STAGING AREA TO PROVIDE FENCING FOR CONSTRUCTION AREA

SITE NOTES:

1. MAXIMUM SLOPE AT SIDEWALK IS NOT TO EXCEED 1:20 (5%) ALONGSIDE AND 1:50 (2%) ACROSS.
2. SITE DRAINAGE SHALL NOT BE DIRECTED TOWARD ADJACENT PROPERTIES.
3. BUILDING PAD ELEVATION TO BE SET BASED ON THE AREA SURVEY AND THE APPLICABLE FLOOD ZONE.
4. VERIFY LOCATION OF SITE IMPROVEMENTS IN RELATION TO BUILDING. PROPERTIES TO BUILDING. PROPERTY LINES AND EASEMENTS.

ADA NOTES:

1. ALL SIDEWALKS AND COVERED WALKWAYS SHALL HAVE 1:50 MAXIMUM CROSS SLOPE SIDEWALKS OR COVERED WALKWAYS THAT MUST HAVE SLOPES GREATER THAN 1:20 SHALL HAVE HANDRAILS ON BOTH SIDES. HANDRAILS SHALL BE 34" TO TOP A.F.F. THERE SHALL BE NO ABRUPT CHANGE IN ELEVATION ALONG ACCESSIBLE ROUTES AT SIDEWALKS AND COVERED WALKWAYS.
2. CURB RAMP SLOPE SHALL BE 1:20 MAXIMUM WITH 1:10 FLARED SIDES AND SHALL BE TEXTURED. PAINT WITH A LIGHT REFLECTIVE PAINT. PARALLEL CURB RAMP SLOPE SHALL BE 1:12 MAXIMUM & TEXTURED. PAINT WITH A LIGHT REFLECTIVE PAINT. ALL CURB RAMPS HAVE A LANDING AT TOP & BOTTOM. LANDINGS SHALL HAVE A 1:50 MAXIMUM SLOPE IN ANY DIRECTION.
3. STRIPED ACCESS AISLES AND ACCESSIBLE PARKING SHALL HAVE A MAXIMUM CROSS SLOPE IN ALL DIRECTIONS OF 1:50. ALL GRADING SHALL BE DONE TO DRAIN WATER AWAY FROM BUILDINGS.
4. ALL EXTERIOR ALCOVES SHALL HAVE A 1:50 MAXIMUM SLOPE AND SHALL HAVE NO DROPS AT DOORS NOR AT CONNECTION SIDEWALKS.
5. REFER TO CIVIL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR CONTRACTING ARCHITECT IN CASE OF DISCREPANCIES AND COORDINATING WITH CIVIL ENGINEER PRIOR TO PROCEEDING.
6. ALL EXTERIOR DOORS SHALL HAVE A LEVEL AREA IN FRONT OF THE DOOR WITH A 1:50 MAXIMUM SLOPE IN ALL DIRECTIONS. THE AREA SHALL BE A MINIMUM OF 5 FT. IN THE DIRECTIONS OF TRAVEL BY THE WIDTH OF THE SIDEWALK.
- 7.



1

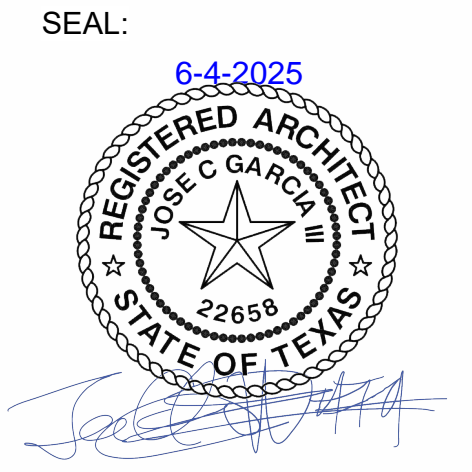
SITE PLAN
1" = 300'-0"

N

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TEXAS ARCHITECT
FIRM No: BR4247
WWW.CG5ARCHITECT.COM



EDINBURG HIGH
SCHOOL
ECISD HIGH
SCHOOL
MULTI-USE
BUILDING
25-74

EDINBURG
HIGH SCHOOL

2600 E
Wisconsin Rd,
Edinburg, TX
78542

CLIENT:
ECISD

REVISION:		
No.	Description	Date
1	ASI 1	5/28/2025

PROJECT #: 25-030101
DRAWN BY: EC
CHECKED BY: CG3
DATE: 5/28/2025

SITE PLAN

A0.1



TEXAS ARCHITECT
FIRM No: BR4247
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SEAL:



ECISD HIGH
SCHOOL
ATHLETIC
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EDINBURG
HIGH SCHOOL

2600 E
Wisconsin Rd,
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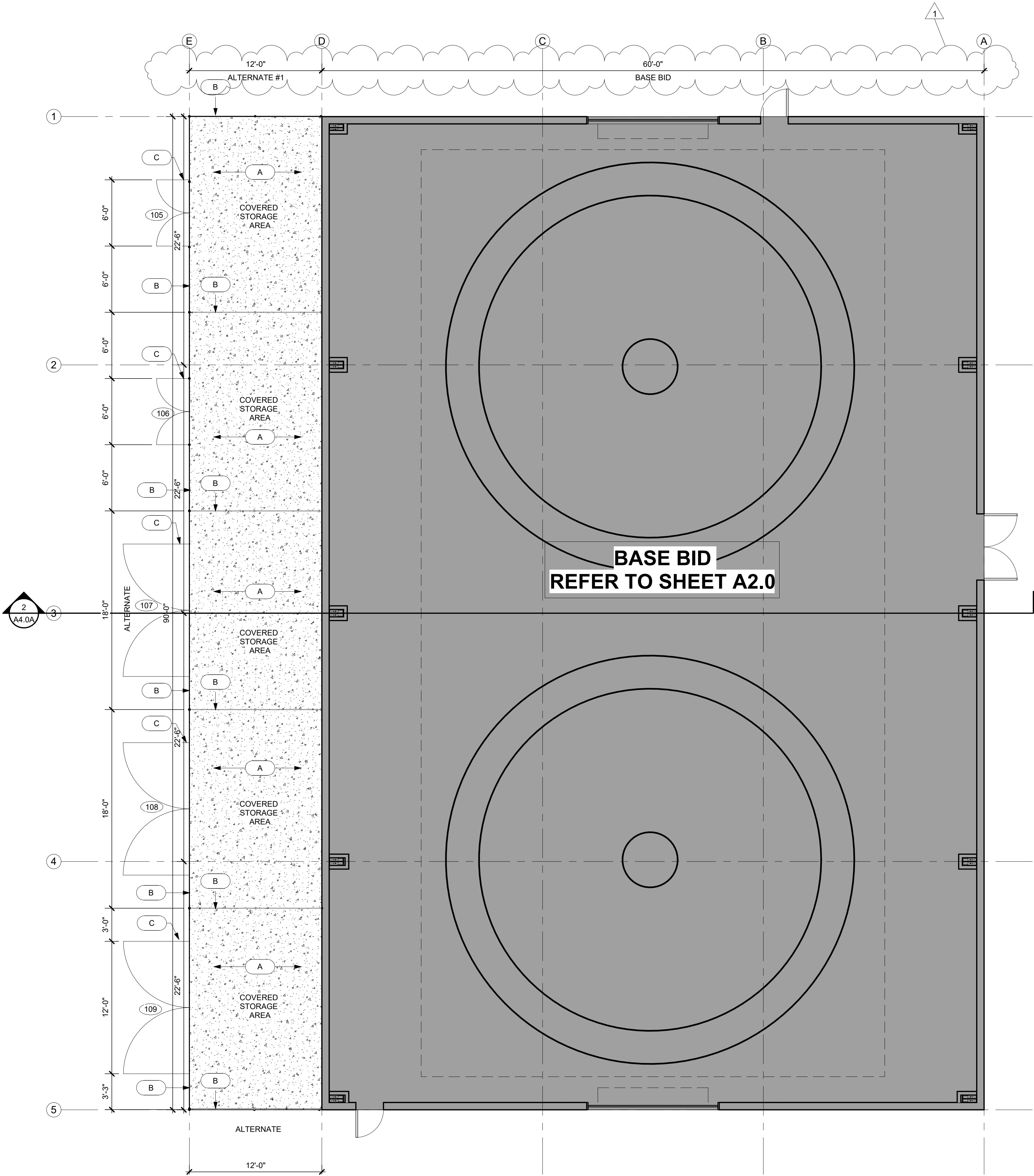
REVISION:

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1	ASI 1	5/28/2025

PROJECT #: 25-030102
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FLOOR PLAN
ALTERNATE

A2.0A



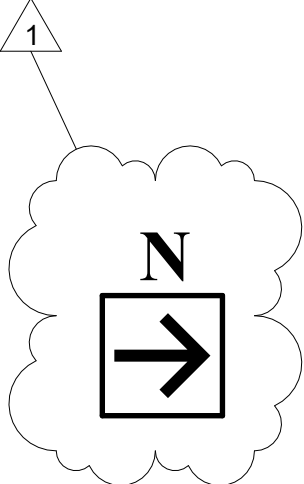
KEY NOTES:

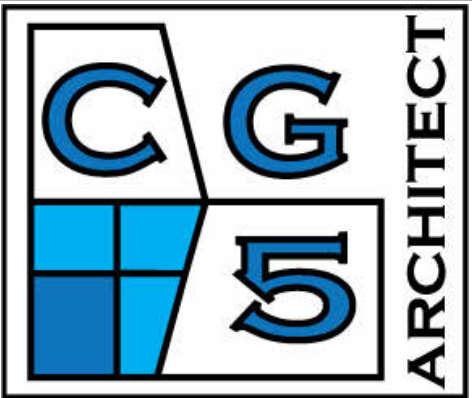
- A CONCRETE FLAT WORK FLOOR AT CANOPY EXTENSION (ALTERNATE #2)
- B 12' HIGH CHAIN LINK FENCE AT CANOPY EXTENSION (ALTERNATE #3)
- C 8' HIGH CHAIN LINK DOUBLE SWING GATE AT CANOPY EXTENSION (ALTERNATE #3) REFER TO SHEET A7.0

FLOOR PLAN GENERAL NOTES

- THE CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS, SPECIFICATIONS, DIMENSIONS AND SITE CONDITIONS PRIOR TO BEGINNING ANY WORK AND REPORT ANY INCONSISTENCIES OR DISCREPANCIES TO THE ARCHITECT IMMEDIATELY FOR RESOLUTION DURING THE Q&A PERIOD OF THE BID PHASE, AND AT THE LATEST BEFORE BEGINNING CONSTRUCTION.
- THE DRAWINGS AND SPECIFICATIONS ARE CORRELATIVE AND HAVE EQUAL AUTHORITY AND PRIORITY. BASE DISAGREEMENTS IN THEMSELVES OR IN EACH OTHER ON THE MOST EXPENSIVE COMBINATION OF QUANTITY AND QUALITY OF WORK INDICATED.
- ITEMS SPECIFICALLY MENTIONED IN THE SPECIFICATIONS BUT NOT SHOWN ON THE DRAWINGS OR ITEMS SHOWN ON THE DRAWINGS BUT NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS SHALL BE PROVIDED AS IF THEY WERE BOTH SPECIFIED AND SHOWN IN THE DRAWINGS.
- ALL MINOR DETAILS OF WORK WHICH ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS, AS WELL AS SUCH ITEMS WHICH ARE NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS, BUT ARE NECESSARY FOR THE PROPER COMPLETION OF THE WORK, SHALL BE CONSIDERED AS INCIDENTAL AND AS BEING PART OF AND INCLUDED WITH THE WORK FOR WHICH PRICES ARE GIVEN IN THE PROPOSAL AND NO EXTRA COMPENSATION SHALL BE ALLOWED FOR THE PERFORMANCE THEREOF.
- ALL FLOOR PLAN DIMENSIONS ARE TO FINISH FACE OF WALL. DO NOT SCALE DRAWINGS. WHERE DIMENSIONS ARE NOTED "AS CLEAR" DIMENSION SHALL BE FROM FINISH TO FINISH.
- CASEWORK, PLUMBING FIXTURES, TOILET PARTITIONS, AND OTHER FIXTURES AND EQUIPMENT ARE DIMENSIONED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE.
- ALL SPACES WITH FLOOR DRAINS - SLOPE NOT TO EXCEED 2% (ONE - IN - FIFTY) IN ANY DIRECTION. COORDINATE ALL FLOOR DRAINS WITH PLUMBING DRAWINGS PRIOR TO ANY ROUGH-IN AND CONCRETE PLACEMENT.
- DIMENSIONS NOTED AS "FIELD VERIFY" SHALL BE CHECKED AT THE SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT BEFORE INCORPORATING INTO THE WORK.
- DIMENSIONS NOTED AS "CLEAR" REQUIRE SPECIFIC COORDINATION BETWEEN DISCIPLINES AND/OR MANUFACTURERS.
- ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE. ALL FLOOR FINISH ELEVATION CHANGES SHALL HAVE THRESHOLDS OR REDUCERS STRIPS AS SPECIFIED.
- OPEN EXTERIOR JOINTS AROUND DOOR AND WINDOW FRAMES, BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF, BETWEEN WALL PANELS, AT WALL AND ROOF PENETRATIONS AND ANY OTHER BUILDING ENVELOPE PENETRATION SHALL BE SEALED, CAULKED AND/OR WEATHER-STRIPPED TO PREVENT OR LIMIT AIR, MOISTURE AND VAPOR PENETRATION. USE ONLY SPECIFIED MANUFACTURER APPROVED MATERIALS AS DIRECTED BY MATERIAL MANUFACTURERS.
- EFFECTIVELY ISOLATE ALL DISSIMILAR METALS/ MATERIALS TO PREVENT CORROSION BY ELECTROLYTIC ACTION OR OTHER CAUSES AS RECOMMENDED BY THE RESPECTIVE PRODUCT MANUFACTURER OR SUPPLIER.
- PROPERLY TERMINATE ALL MATERIALS WITH APPROPRIATE TRIM, FLASHING, SEALANT, EXPANSION CONTROL, ETC. AS INDICATED ON DRAWINGS OR AS REQUIRED FOR PROPER INSTALLATION AS ACCEPTED BY STANDARD BUILDING PRACTICE.
- COORDINATE AND PROVIDE APPROPRIATE BLOCKING IN WALLS AS REQUIRED TO SECURE ALL EQUIPMENT, HANDRAILS, CASEWORK, ETC. AS REQUIRED. WOOD BLOCKING SHALL MEET CODE REQUIREMENTS.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES AND HEIGHTS. COORDINATE ALL LIGHT FIXTURES, MECHANICAL DIFFUSERS, NOTIFICATION DEVICES, ETC. WITH M.E.P. DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR RESOLUTION.
- COORDINATE HOUSEKEEPING PAD DIMENSIONS AND LOCATIONS WITH EQUIPMENT TO BE INSTALLED. ALL HOUSEKEEPING PADS SHALL BE A MINIMUM OF 4" TALL REINF. W/ #3 BARS AT 15" O.C.B.W. AND PROVIDE 1" (45- DEGREE) CHAMFERED EDGES UNLESS NOTED OTHERWISE.
- ALL INTERIOR DOORS IN STUD WALL ASSEMBLIES SHALL BE SET A MINIMUM OF 4" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS FOR RESOLUTION.
- SET ALL EXTERIOR DOOR THRESHOLDS IN FULL BED OF MANUFACTURER APPROVED SEALANT IN ACCORDANCE WITH MANUFACTURER INSTALLATION INSTRUCTIONS.
- REFER TO CODES AND CONVENTIONS SHEET FOR MOUNTING HEIGHTS OF FIXTURES AND EQUIPMENT AS SCHEDULED. REFER TO THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS, ARCHITECTURAL BARRIERS DIVISION TEXAS ACCESSIBILITY STANDARDS FOR ALL MOUNTING HEIGHTS NOT LISTED AND FOR FURTHER CLARIFICATION AS NEEDED.
- PROVIDE ROOM SIGNAGE AND DIRECTIONAL SIGNAGE AS PART OF BASE BID. REFER TO THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS, ARCHITECTURAL BARRIERS DIVISION TEXAS ACCESSIBILITY STANDARDS FOR ALL MOUNTING HEIGHTS NOT LISTED AND FOR FURTHER CLARIFICATION AS NEEDED.

LEVEL 1 FLOOR PLAN
ALTERNATE
3/16" = 1'-0"





TEXAS ARCHITECT
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SEAL:



ECISD HIGH SCHOOL
ATHLETIC MULTI-USE BUILDING
ECISD CSP 25-74

EDINBURG HIGH SCHOOL

2600 E Wisconsin Rd,
Edinburg, TX 78542

CLIENT:
EDINBURG CISD

REVISION:		
No.	Description	Date
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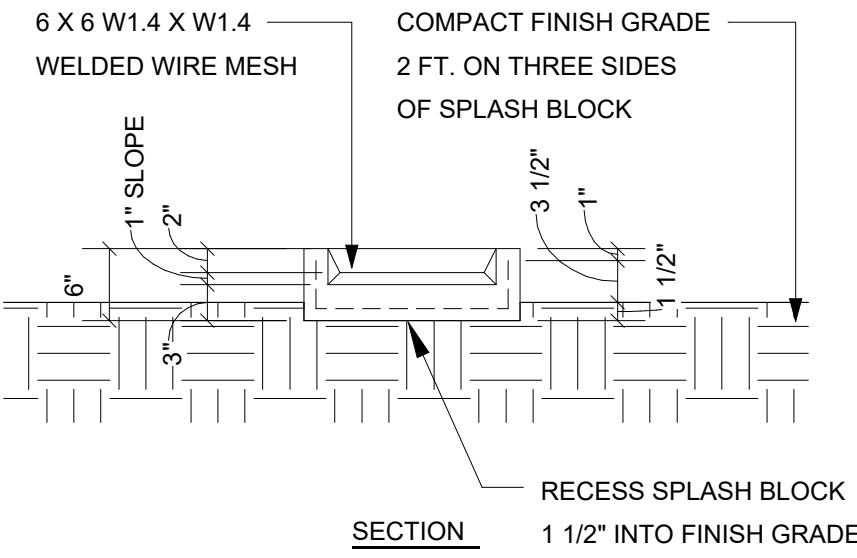
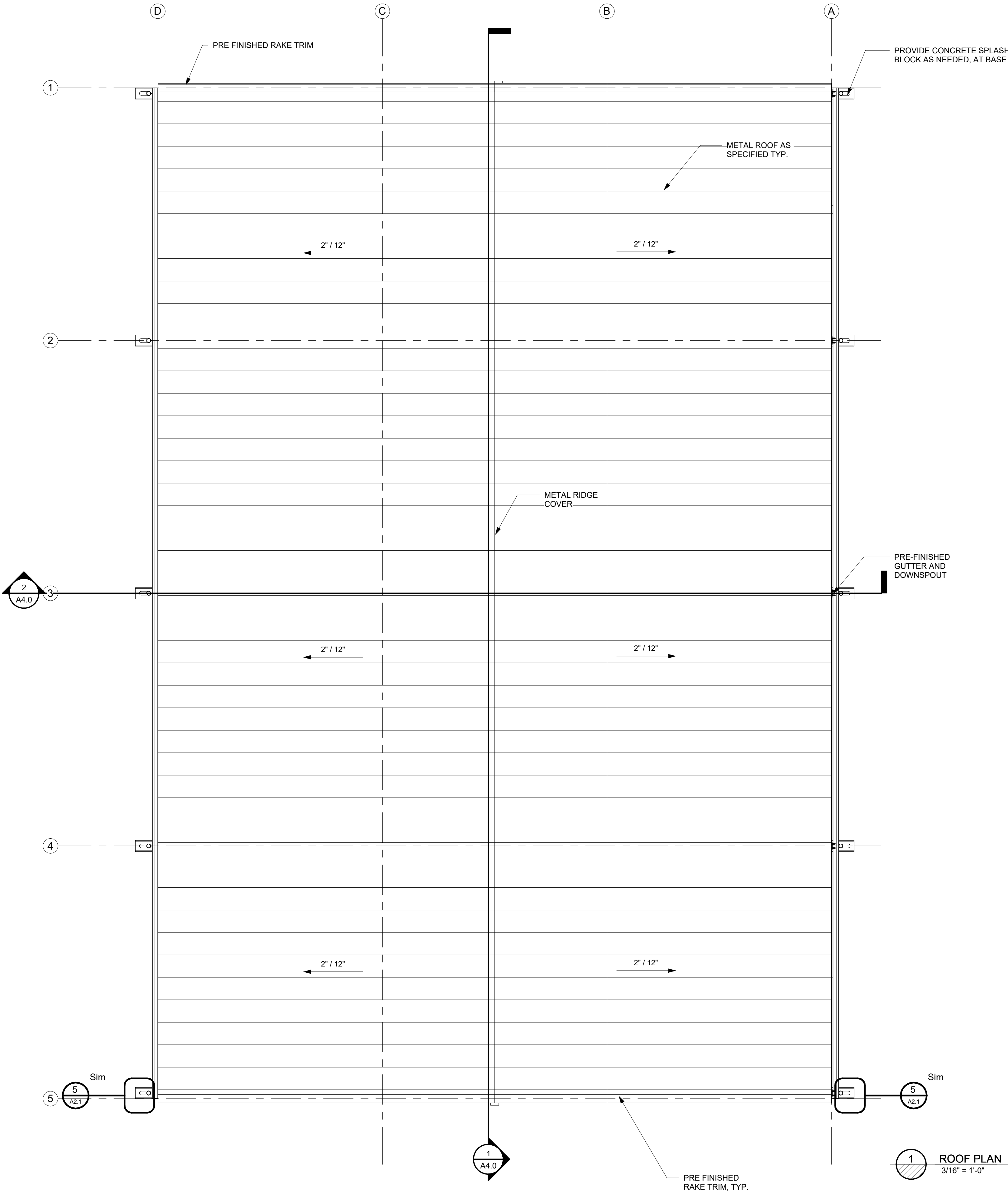
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ROOF PLAN
BASE BID

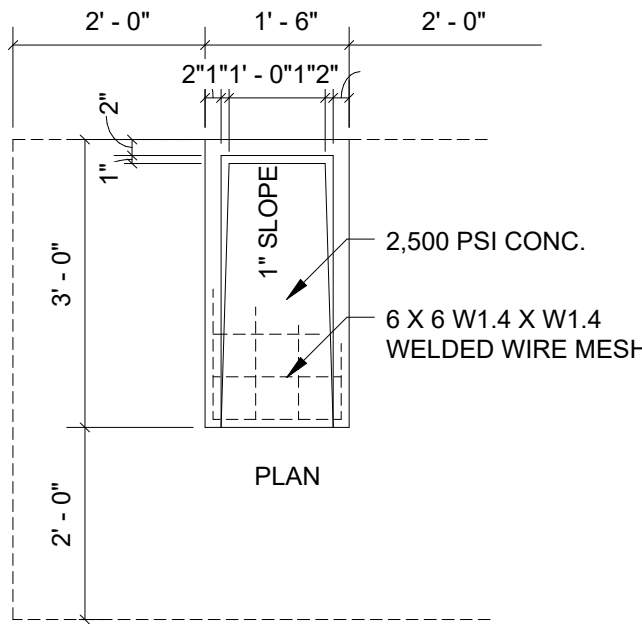
A2.1

GENERAL ROOF NOTES:

1. PROVIDE ALL REQUIRED UTILITY / STRUCTURAL COMPONENTS AND/OR CONNECTIONS FOR THE FUNCTIONAL USE OF ALL CONTRACTOR SUPPLIED EQUIPMENT OR APPLIANCES, REGARDLESS OF ANY OMISSIONS OR INCONSISTENCIES ENCOUNTERED IN THE CONSTRUCTION DOCUMENTS.
2. THE WORD 'PROVIDE' SHALL MEAN 'FURNISH AND INSTALL COMPLETE AND READY TO USE.'
3. IF DISCREPANCIES APPEAR BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE HIGHER QUALITY, QUANTITY, AND PRICE SHALL SUPERSEDE.
4. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BECOME FAMILIAR WITH THE PROJECT AND THE ON-SITE / OFF-SITE CONDITIONS PRIOR TO BIDDING OR COMMENCING WORK.
5. ROOF SLOPES SHOWN ON DRAWING ARE GENERAL AND CONCEPTUAL ONLY. PROVIDE POSITIVE DRAINAGE TO ALL GUTTERS. VERIFY IN SHOP DRAWINGS. REFER TO STRUCTURAL DOCUMENTS FOR EXACT TOS/BOD ELEVATIONS.
6. PROVIDE CRICKETS (1/2"/FT. MIN. SLOPE) AT HIGH SIDE OF ALL MECHANICAL UNITS SMOKE VENTS, EXHAUST FANS & OTHER MISC. ROOF PENETRATIONS, TO SHED WATER AROUND & TO ENSURE POSITIVE ROOF DRAINAGE.
7. ALL EXPOSED FLASHING, COPING (IF APPLICABLE) AND THEIR ACCESSORIES SHALL BE AS SPECIFIED. PAINT ALL METAL FLASHING THAT IS NOT PRE-FINISHED (TYP) AND VISIBLE FROM THE GROUND.
8. ALL PITCH PANS SHALL BE SOLDERED CLAD METAL AND RECEIVE EITHER MECHANICALLY ATTACHED GOOSENECK OR METAL BONNETS. METAL BONNETS SHALL BE SECURED WITH CLAMPING RING AND SEALANT. SPECIAL CARE GIVEN TO WASH ALL METAL PRIOR TO INSTALLATION.
9. PROVIDE NEW CONCRETE SPLASH BLOCKS AT ALL DOWNSPOUT DISCHARGE LOCATIONS.
10. ALL EQUIPMENT CURBS TO BE SET OR RAISED AS NECESSARY TO MAINTAIN 10" MINIMUM HEIGHT ABOVE FINISHED ROOF SURFACE.
11. MECHANICAL, ELECTRICAL, AND PLUMBING ROOF EQUIPMENT SHOWN ON THIS PLAN IS FOR GENERAL ARCHITECTURAL INFORMATION ONLY. REFER TO M.E.P. DOCUMENTS FOR ROOFTOP EQUIPMENT NOT SHOWN, AND FOR ADDITIONAL REQUIREMENTS AND COORDINATION.
12. REFER TO M.E.P. DOCUMENTS FOR THE PIPE SUPPORT LOCATIONS, TYPE, AND DETAILS. PAD SHALL BE MIN 2" WIDER THAN SUPPORT IN ALL DIRECTIONS.
13. GUTTERS SHALL BE PRE-FINISHED GALVANIZED STEEL. SIZE PER ROOF PLAN, UNO. PROVIDE PRE-FINISHED 1/4"x1 1/2" GALVANIZED STEEL BENT PLATE BRACKETS AND PRE-FINISHED 1" GALVANIZED STEEL SPACERS AT 36" O.C. MAX. STAGGER WITH EACH OTHER AT 18" O.C.
14. PROVIDE PRE-FINISHED GUTTER EJ'S 30'-0" O.C. MAX.
15. DOWNSPOUTS SHALL BE 4"x6" PRE-FINISHED GALVANIZED STEEL UNO AS INDICATED ON ROOF PLAN. PROVIDE PRE-FINISHED 2" GALVANIZED STEEL HANGERS AT 36" O.C. COORDINATE LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.

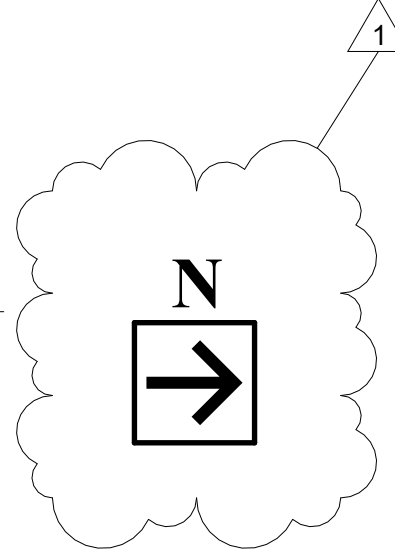


4 SPLASH
3/4" = 1'-0"



5 SPLASH GUARD
1/2" = 1'-0"

1 ROOF PLAN
3/16" = 1'-0"





TEXAS ARCHITECT
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SEAL:



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EDINBURG
HIGH SCHOOL

2600 E
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78542

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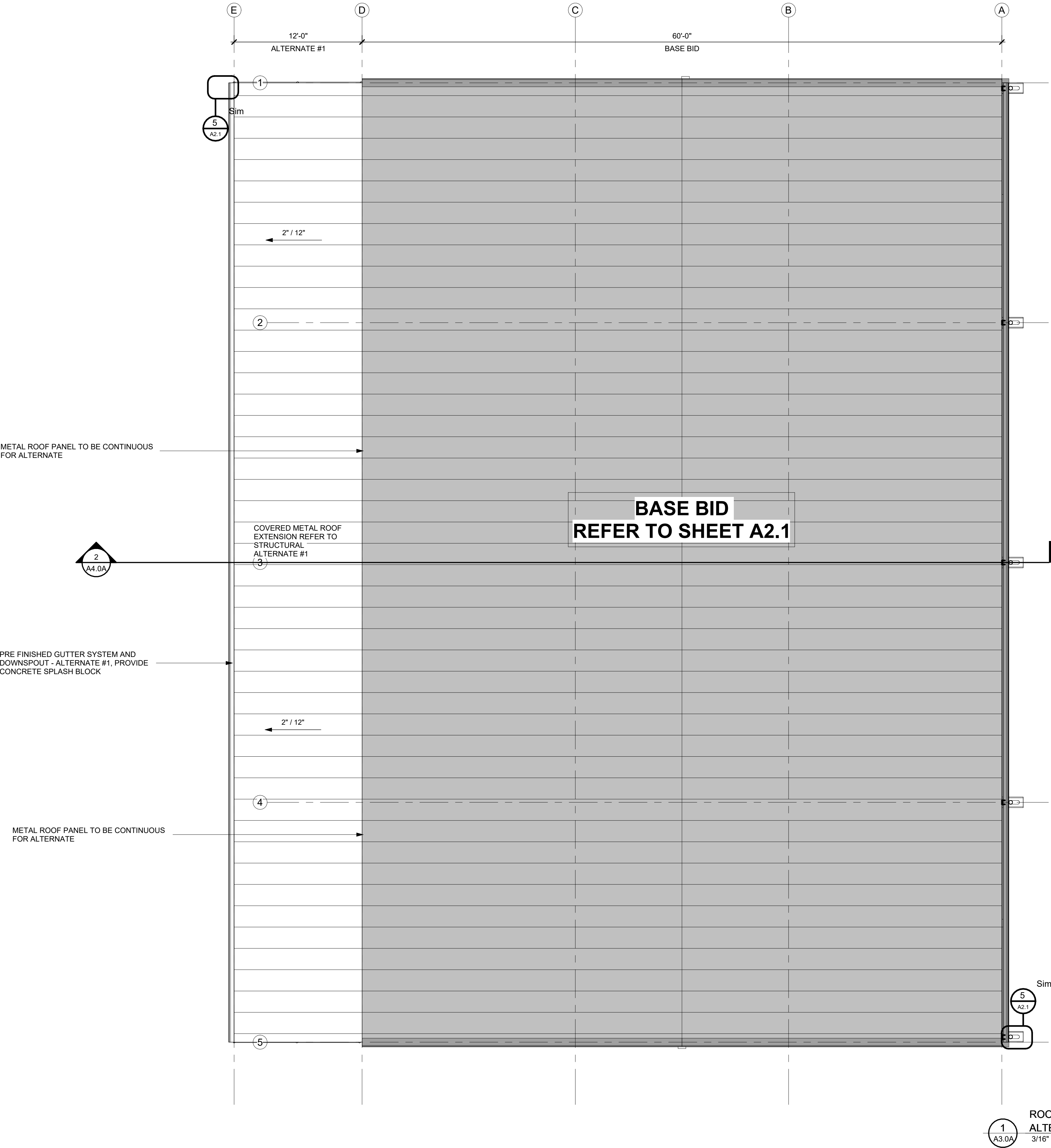
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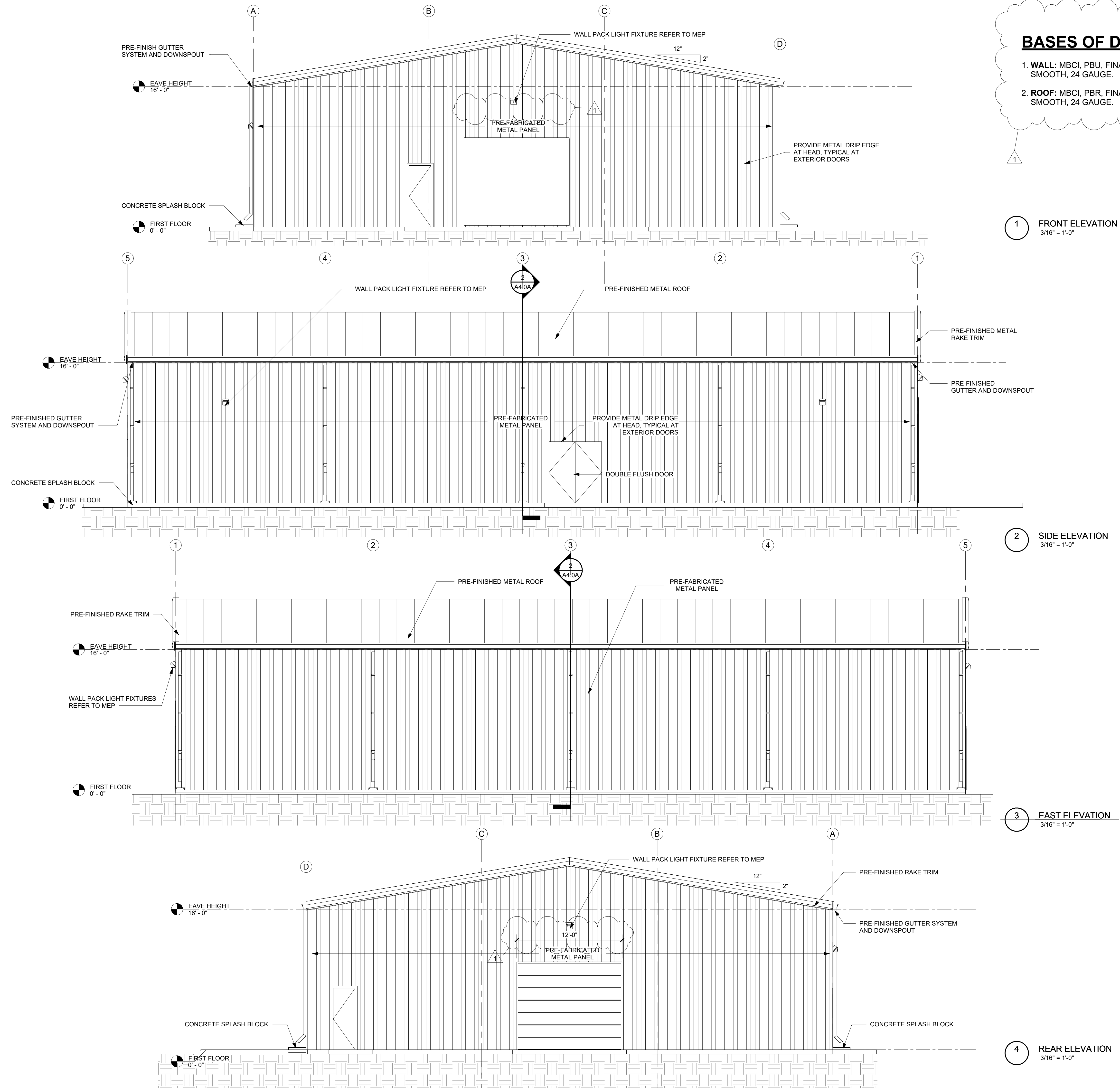
ROOF PLAN
ALTERNATE

A2.1A

GENERAL ROOF NOTES:

1. PROVIDE ALL REQUIRED UTILITY / STRUCTURAL COMPONENTS AND/OR CONNECTIONS FOR THE FUNCTIONAL USE OF ALL CONTRACTOR SUPPLIED EQUIPMENT OR APPLIANCES, REGARDLESS OF ANY OMISSIONS OR INCONSISTENCIES ENCOUNTERED IN THE CONSTRUCTION DOCUMENTS.
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3. IF DISCREPANCIES APPEAR BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE HIGHER QUALITY, QUANTITY, AND PRICE SHALL SUPERSEDE.
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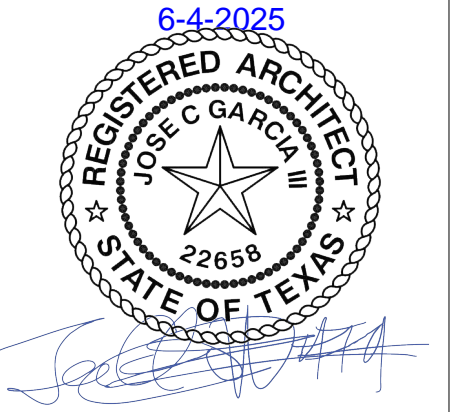
BASES OF DESIGN

1. **WALL:** MBCI, PBU, FINAL COLOR SELECTED BY ECISD SMOOTH, 24 GAUGE.
2. **ROOF:** MBCI, PBR, FINAL COLOR SELECTED BY ECISD SMOOTH, 24 GAUGE.



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SEAL:



ECISD HIGH
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EDINBURG
HIGH SCHOOL

2600 E
Wisconsin Rd,
Edinburg, TX
78542

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EXTERIOR
ELEVATIONS
BASE BID

A3.0



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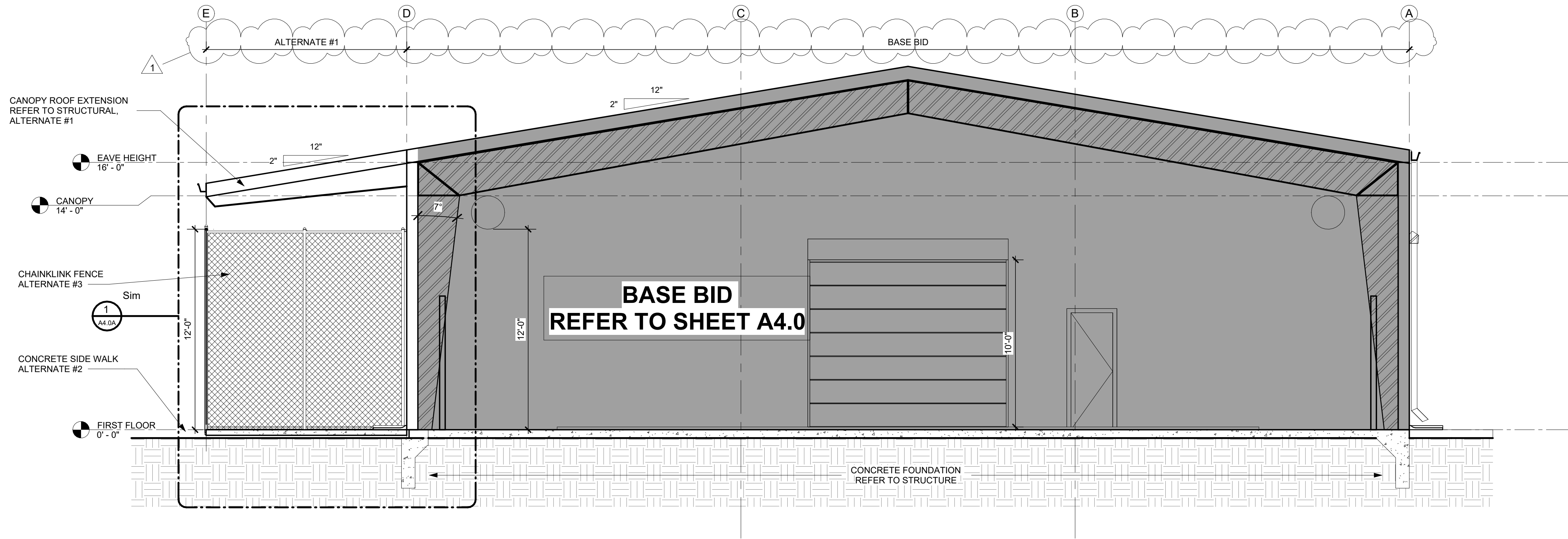
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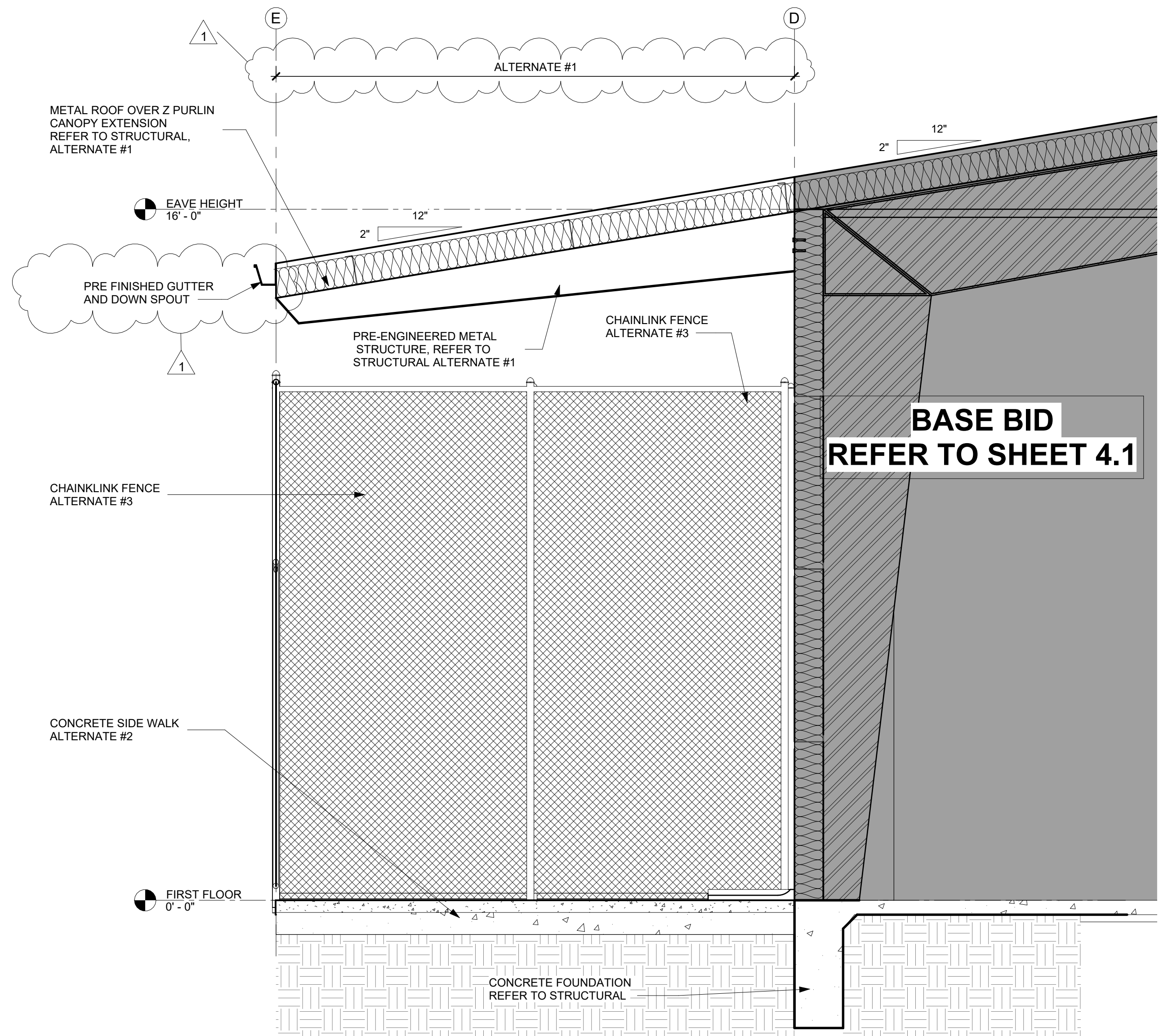
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BUILDING
SECTIONS
ALTERNATE

A4.0A



2
A2.0A
BUILDING SECTION
ALTERNATE
1/4" = 1'-0"



1
A4.0A
STORAGE AREA
ALTERNATE
1/2" = 1'-0"



TEXAS ARCHITECT
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SEAL:



ECISD HIGH SCHOOL
ATHLETIC MULTI-USE BUILDING
ECISD CSP 25-74

EDINBURG HIGH SCHOOL

2600 E Wisconsin Rd,
Edinburg, TX 78542

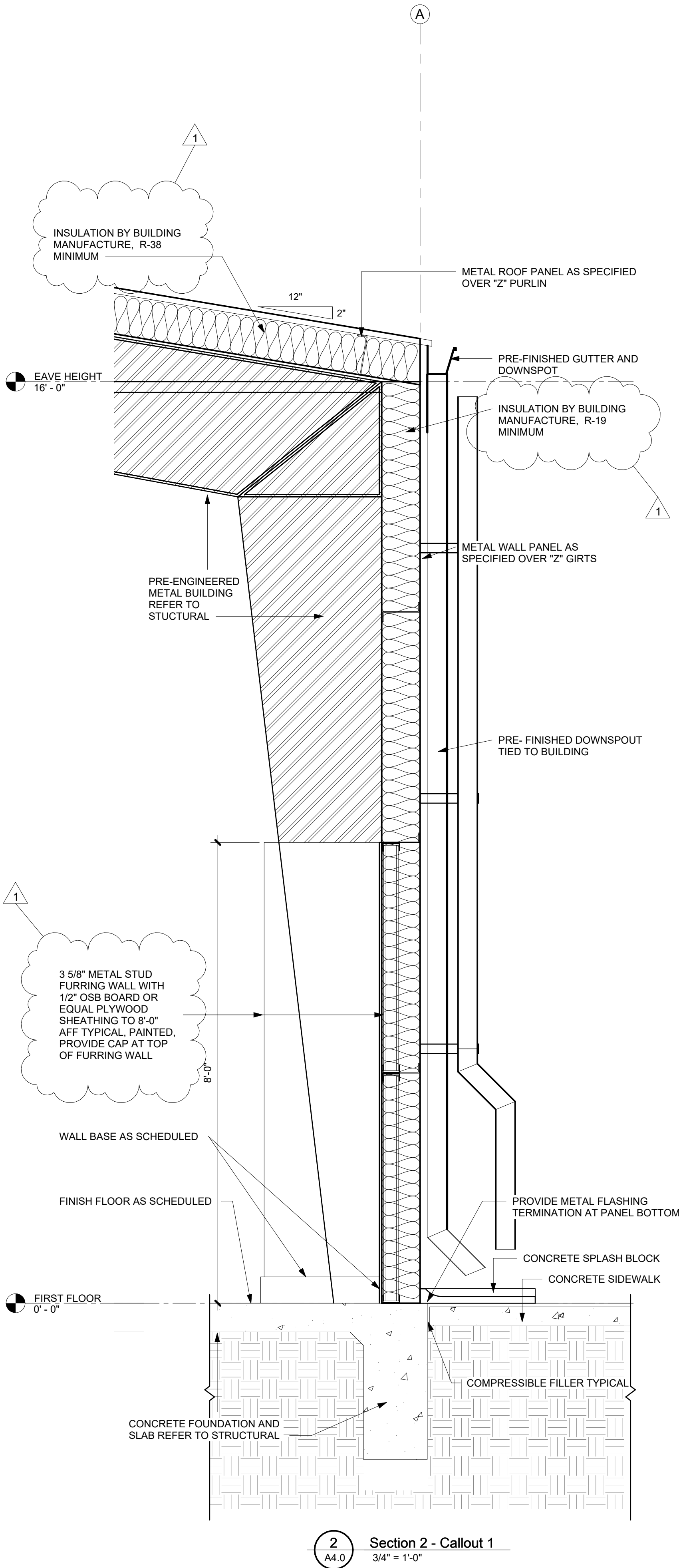
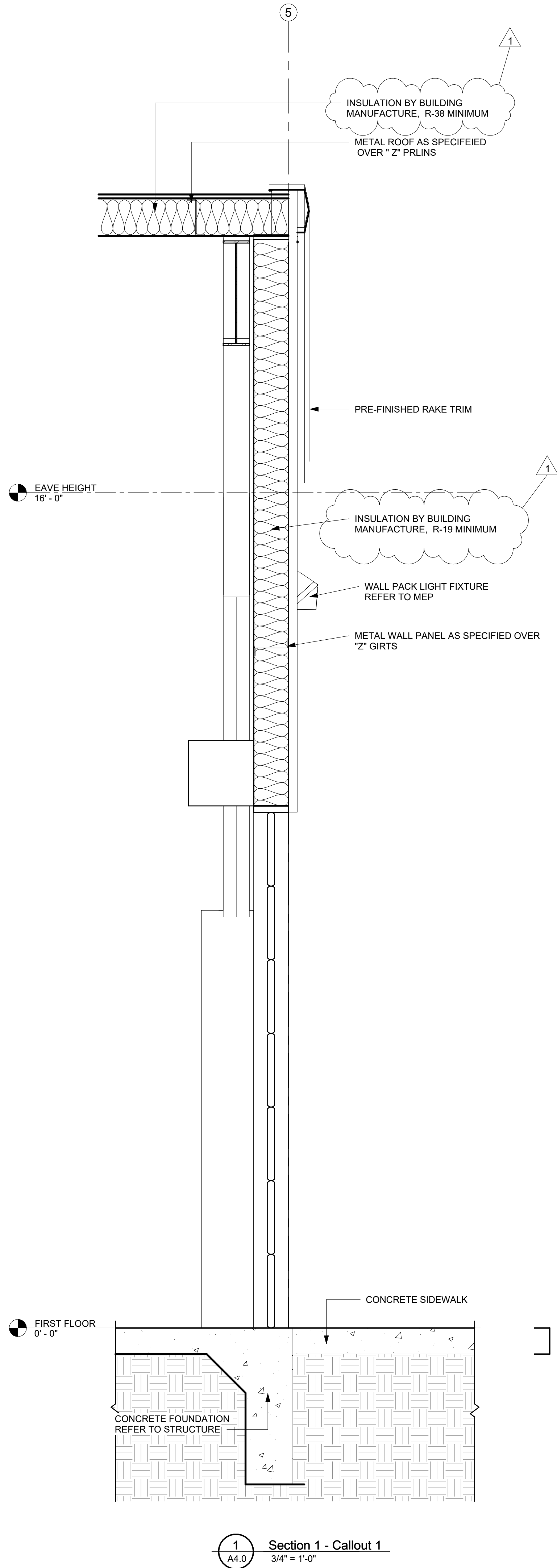
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WALL
SECTIONS AND
DETAILS BASE
BID

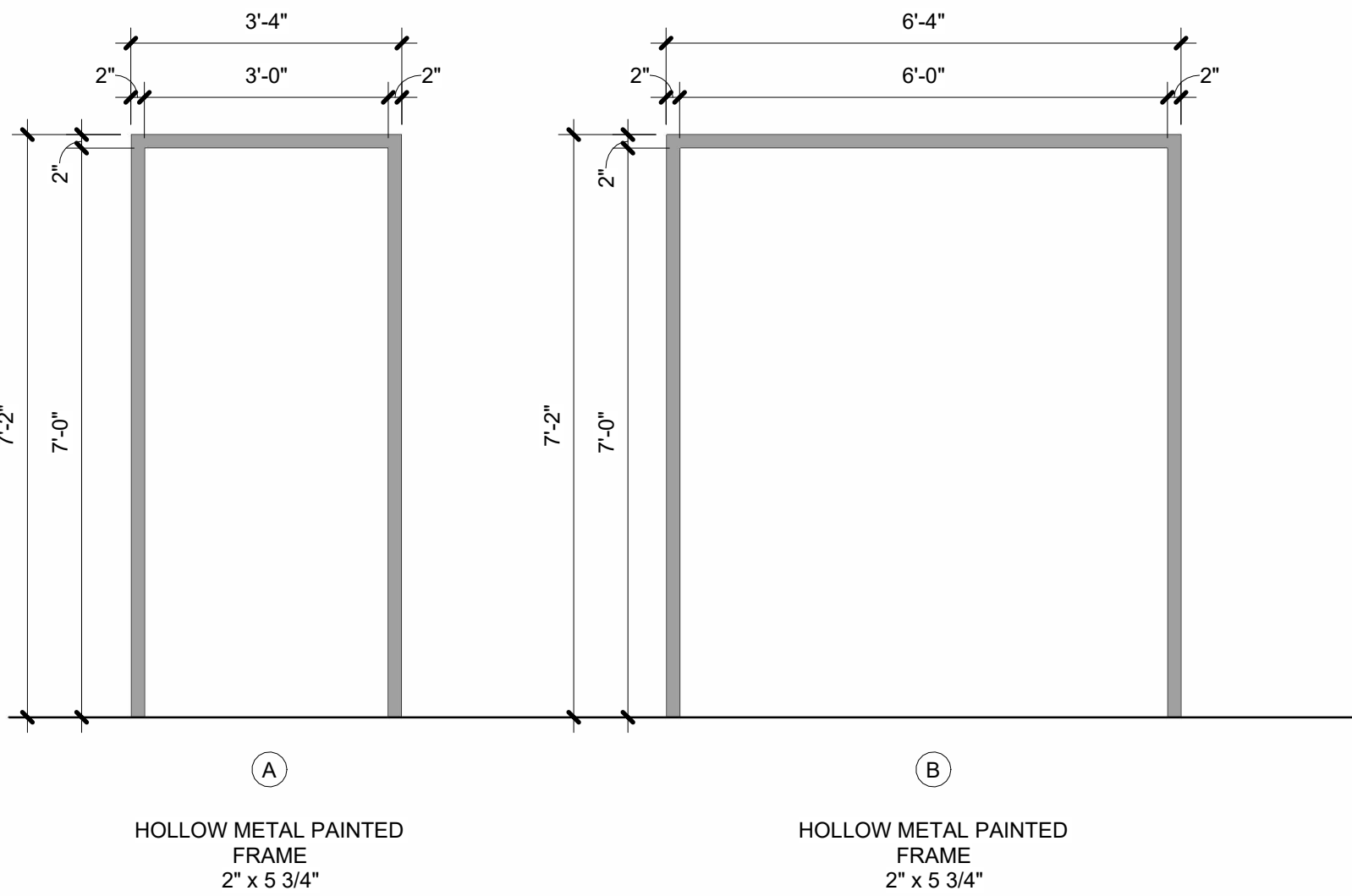
A4.1



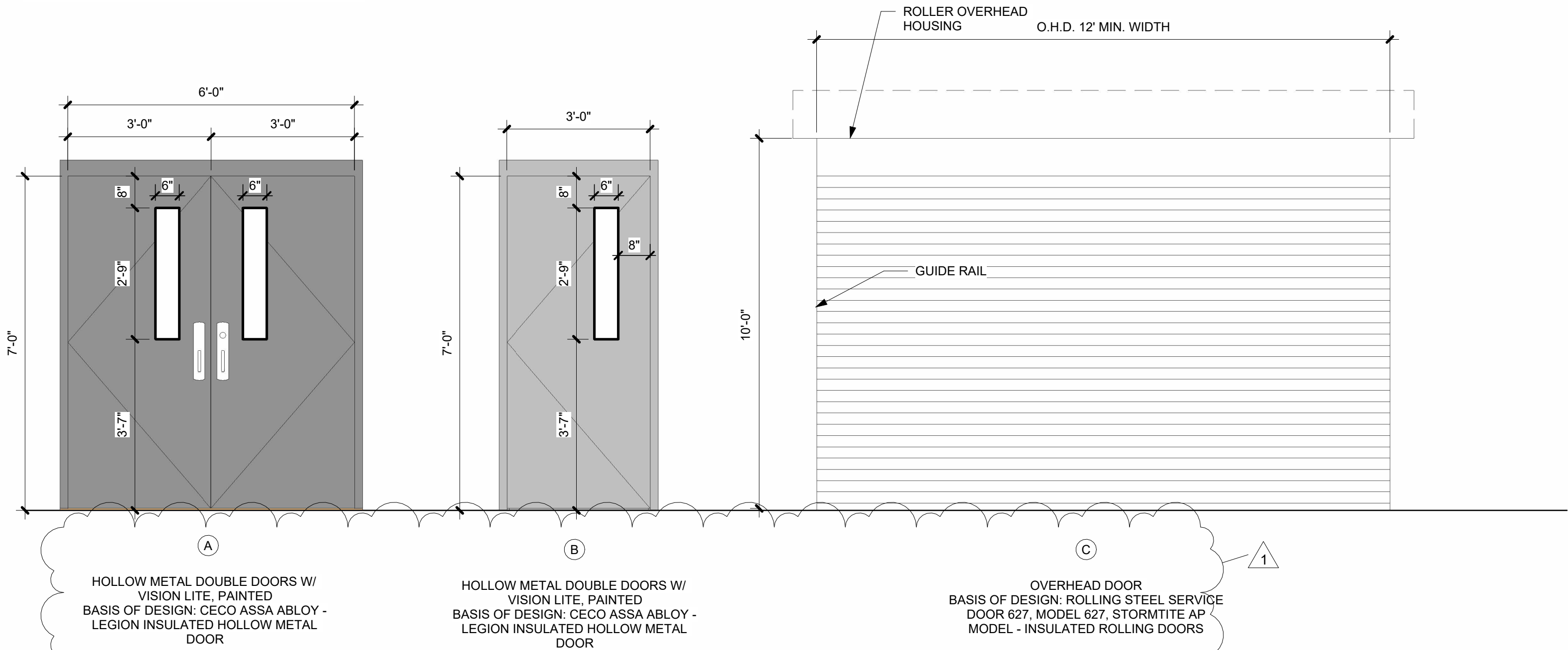
DOOR HARDWARE:

- DH1: DOORS:
6 - HINGES (BASIS OF DESIGN OR EQUAL); BEST DOOR HARDWARE PBB HINGES 4B81
1 - CENTER MULLION REMOVABLE
2 - THRESHOLDS
2 - PANIC DEVICE (BASIS OF DESIGN OR EQUAL); BEST DOOR HARDWARE PRECISION APEX 2100,
STANDARD, 1700C GRIP OR COMPATIBLE WITH ACCESS CONTROL, NO ALARM, DOOR SIZE AS SHOWN
ON PLAN, S300 STRIKE, 630 US32D
1 - WEATHER STRIPPING FOR DOUBLE DOOR (BASIS OF DESIGN OR EQUAL):
PEMCO PK55 - SELF ADHESIVE WEATHER SEAL GASKET
1 - RAIN GUARD FOR DOUBLE DOOR
2 - DOOR HOLD OPEN
2 - DOOR CLOSURES
- DH2: DOORS:
3 - HINGES (BASIS OF DESIGN OR EQUAL); BEST DOOR HARDWARE PBB HINGES 4B81
1 - KICK PLATE
1 - PANIC DEVICE (BASIS OF DESIGN OR EQUAL); BEST DOOR HARDWARE PRECISION APEX 2100,
STANDARD, 1700C GRIP OR COMPATIBLE WITH ACCESS CONTROL, NO ALARM, DOOR SIZE AS SHOWN
ON PLAN, S300 STRIKE, 630 US32D
1 - DOOR CLOSURE
1 - DOOR HOLD OPEN
- DH3: DOORS:
1 - RIM CYLINDER
ALL OTHER ACCESSORIES BY DOOR MANUFACTURERS
- DOOR HARDWARE GENERAL NOTES:
1. KEYS AS PER OWNER KEYING SYSTEM.
2. ALL HARDWARE TO BE MEDIUM TO HEAVY DUTY

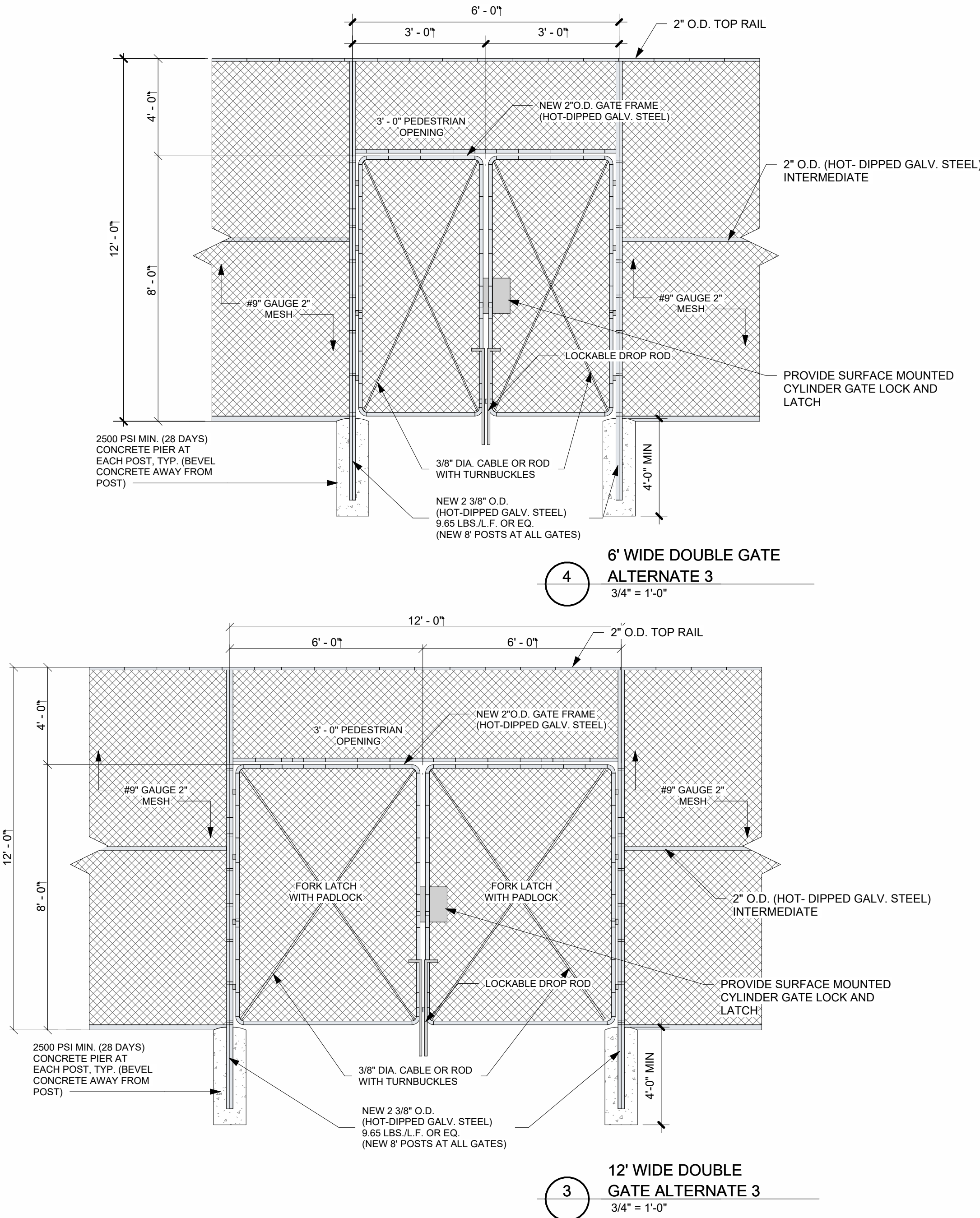
DOOR SCHEDULE								
MARK	LOCATION		TYPE DESCRIPTION	SIZE	DOOR MATERIAL	DOOR FRAME	DOOR HARDWARE	REMARKS
	FROM	TO		WIDTH x HEIGHT				
100	EXTERIOR	MULTIPURPOSE 100	B	3'-0" x 7'-0"	HOLLOW METAL	HOLLOW METAL	DH2	
101	EXTERIOR	MULTIPURPOSE 100	C	12'-0" x 10'-0"	METAL	METAL	-	INSULATED
102	EXTERIOR	MULTIPURPOSE 100	A	3'-0" x 7'-0" DOUBLE	HOLLOW METAL	HOLLOW METAL	DH1	
103	EXTERIOR	MULTIPURPOSE 100	B	3'-0" x 7'-0"	HOLLOW METAL	HOLLOW METAL	DH2	
104	EXTERIOR	MULTIPURPOSE 100	C	12'-0" x 10'-0"	METAL	METAL	-	INSULATED



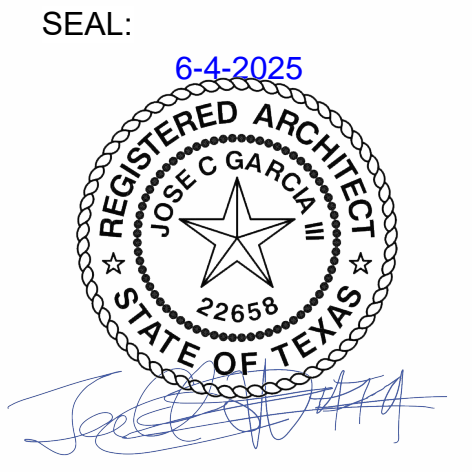
DOOR FRAME TYPES



DOOR TYPES



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DOOR
SCHEDULE

A7.0

GENERAL

- THE NOTES AND SPECIFICATIONS PROVIDED ON THE STRUCTURAL DRAWINGS ARE EXCERPTS FROM THE RELATING PROJECT SPECIFICATIONS. THEY ARE NEITHER COMPLETE NOR DO THEY REPLACE THE CONTRACT SPECIFICATIONS.
- CODE: CONSTRUCTION SHALL CONFORM TO THE PROVISIONS OF THE 2021 INTERNATIONAL BUILDING CODE OF LATEST ADOPTION AND ALL STANDARDS REFERENCED THEREIN IN THEIR ENTIRETY, WITH ALL LOCALLY ADOPTED AMENDMENTS, REFERENCED THEREIN.
- MEANS AND METHODS: THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INCLUDE THE MEANS AND METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS RELATING TO THE SPECIFIC STRUCTURAL ERECTION ITEMS ADDRESSED IN THE LATEST OSHA REGULATIONS.
- GENERAL DETAILS AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS. ALL WORK OR CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATIONS, AND SAFETY REQUIREMENTS.
- UNLESS ACCOMPANIED BY A FORMAL CHANGE ORDER, RESPONSE TO QUESTIONS AND RFIs, COMMENTS MADE DURING THE REVIEW OF SUBMITTALS, AND DIRECTIVES PROVIDED IN ANY FORM BY THE ENGINEER TO THE CONTRACTOR DURING THE CONSTRUCTION PROCESS ARE INTENDED TO BE CLARIFICATIONS OF THE CONTRACT DOCUMENTS OR CORRECTIONS TO THE PERCEIVED INTERPRETATION OF THE INTENT OF CONTRACT DOCUMENTS BY THE CONTRACTOR. SUCH CLARIFICATIONS AND CORRECTIONS ARE NOT INTENDED TO REPRESENT A CHANGE IN COST OF THE PROJECT TO THE OWNER AND ARE CONSIDERED TO BE INFERRABLE FROM THE CONTENT OF THE CONTRACT DRAWINGS OR CONSISTENT WITH INDUSTRY STANDARDS OF CONSTRUCTION. IF THE CONTRACTOR DETERMINES THAT SUCH CLARIFICATIONS AND CORRECTIONS HAVE AN IMPACT ON THE COST OF THE PROJECT TO THE OWNER, THE CONTRACTOR SHALL SUBMIT A CHANGE ORDER REQUEST WITH DETAILED PRICING INFORMATION TO THE ARCHITECT BEFORE PURCHASING, DETAILING, FABRICATING, OR INSTALLING ANY COMPONENT RELATED TO SUCH CLARIFICATIONS AND CORRECTIONS.
- DISCREPANCIES: THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS. UPON RECEIPT OF SUCH INFORMATION, THE ENGINEER WILL SEND WRITTEN INSTRUCTIONS TO ALL CONCERNED. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND WORK SHALL BE PERFORMED IN A MANNER AS DIRECTED BY THE ENGINEER.

- SHORING: IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING, AND FORMWORK, AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING THE CONSTRUCTION OF THE BUILDING. EXCESS LOAD CAPACITY OF SLAB SHALL NOT EXCEED LOADS EQUIVALENT TO THE DESIGN SUPERIMPOSED LOADS LESS CURVED CONSTRUCTION DEAD AND LIVE LOADS. DESIGN SUPERIMPOSED LOADS INCLUDE LIVE LOAD, PARTITION LOAD, AND ANY OTHER LOAD NOT IN PLACE AT THE TIME OF SHORING. FLOORS ARE NOT DESIGNED TO SUPPORT FORMWORK, AND WET CONCRETE WEIGHT OF NEXT LEVEL. CONTRACTOR SHALL DESIGN AND PROVIDE RE-SHORING TO PREVENT OVERTRESSING THE STRUCTURE.
- EXCAVATION: THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE, FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT.

- OTHER TRADES: IT IS NOT THE INTENT THAT THE STRUCTURAL DRAWINGS BE VIEWED AS STAND ALONE DRAWINGS WITH RESPECT TO PROJECT DIMENSIONS OR ANY OTHER COMPONENTS OF THE CONSTRUCTION THAT CAN AND MAY BE IDENTIFIED ON THE DRAWINGS. THE PARTS OF THE CONTRACT DOCUMENTS, IT REQUIRES THE ENTIRE SET OF CONTRACT DOCUMENTS TO PROPERLY CONSTRUCT THE STRUCTURE AS WELL AS OTHER COMPONENTS OF THE BUILDING. ANCHORS REQUIRED FOR ANCHORING MEP EQUIPMENT AND/OR PIPING ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL DETERMINE AND COORDINATE REQUIREMENTS FROM OTHER DISCIPLINES AND SHALL PROVIDE APPROPRIATE, ALL ALLOWANCES IN THE BID. IT IS THE CONTRACTOR'S OBLIGATION TO ASSEMBLE AND COORDINATE THE REQUIREMENTS OF ALL COMPONENTS OF THE CONTRACT DOCUMENTS, IN ORDER TO PROPERLY IMPLEMENT THE INTENT OF THE CONTRACT. SEE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF PIPES, VENTS, CHASES, DUCTS AND OTHER OPENINGS AND DETAILS NOT SHOWN ON THESE STRUCTURAL DRAWINGS. ALL DIMENSIONS ARE TO BE CHECKED AND VERIFIED WITH THE ARCHITECTURAL DRAWINGS.

- BRACING: THESE DRAWINGS ILLUSTRATE THE PRIMARY STRUCTURAL FRAME IN ITS COMPLETED FORM. TEMPORARY BRACING, PROPERLY DESIGNED UNDER THE SUPERVISION OF A LICENSED STRUCTURAL ENGINEER, SHALL BE PROVIDED AS REQUIRED TO HOLD ALL COMPONENTS OF THE STRUCTURE IN PLACE UNTIL FINAL SUPPORT IS SECURELY ANCHORED.

- INSPECTIONS: ANY INSPECTIONS, SPECIAL OR OTHERWISE, THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR THESE PLANS, SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY. NO SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE, OR SUBSTITUTE, INSPECTIONS UNLESS SPECIFICALLY CONTRACTED FOR.

- THE LOCATION AND DIMENSIONS OF ALL OPENING, DEPRESSIONS, RECESSES, SLOPES, BLOCKOUTS, CURBS, AND EMBELEMENTS SHOWN IN THE STRUCTURE, WHICH ARE RELATED TO PURPOSES DEPICTED IN CONTRACT DOCUMENTS OTHER THAN THE STRUCTURAL DRAWINGS OR BY MANUFACTURERS AND INSTALLERS OF VARIOUS EQUIPMENT AND FINISHES SHALL BE VERIFIED BY THE CONTRACTOR TO BE SUITABLE FOR THE PURPOSES DEPICTED BY THE CONTRACT DOCUMENTS. FINISHES SHALL BE VERIFIED BY THE CONTRACTOR TO BE SUITABLE FOR THE PURPOSES DEPICTED BY THE CONTRACT DOCUMENTS. FINISHES, SUCH ITEMS OR TO BE SUITABLE FOR THE INSTALLATION OF VARIOUS EQUIPMENT AND FINISHES. ANY REQUIREMENT FOR SUBLOCATION OR CHANGE IN DIMENSIONS OF ANY OPENING, DEPRESSION, RECESS, SLOPE, BLOCKOUT, OR EMBELEMENT SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER IN DRAWING FORM PRIOR TO THE FABRICATION OF MATERIALS OR CONSTRUCTION. AN ALLOWANCE SHALL BE INCLUDED IN THE BID PRICE SUFFICIENT TO ADEQUATELY COVER STRUCTURAL REQUIREMENTS FOR SUCH ITEMS WITHOUT NEED FOR A FUTURE CHANGE TO THE BID PRICE.

- LOADINGS FOR MECHANICAL EQUIPMENT: ARE BASED ON THE UNITS SHOWN ON THE MECHANICAL DRAWINGS AND IN THE EQUIPMENT SCHEDULE. ANY CHANGES IN TYPE, SIZE, WEIGHT, OR NUMBER OF DEVICES OF EQUIPMENT SHALL BE REPORTED TO THE ARCHITECT FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.
- SUBSTITUTIONS & DEVIATIONS: PROPOSED SUBSTITUTION OF MATERIALS, PRODUCTS OR DETAILS DEPICTED IN THE CONTRACT DOCUMENTS SHALL BE SUBMITTED DURING THE BIDDING PERIOD. AFTER BIDS ARE ACCEPTED, NOTICE IN WRITING OF ANY PROPOSED SUBSTITUTIONS OR ANY PROPOSED DEVIATIONS TO THE STRUCTURE, AS REQUIRED BY THESE DOCUMENTS, SHALL BE SUBMITTED WITH BACKUP DATA IDENTIFYING THE REASON FOR THE PROPOSED SUBSTITUTION OR DEVIATION. FOR PROPOSED SUBSTITUTIONS OF PRODUCTS, THE BACKUP DATA SHALL INCLUDE CURRENT (C.B.O. REPORT, THE PROPOSED SUBSTITUTIONS SHALL BE CONSIDERED AFTER ACCEPTANCE OF BIDS, ONLY WHEN THEY ARE SUBMITTED WITH DOCUMENTED SAVINGS TO BE DEDUCTED FROM THE PROJECT CONTRACT AMOUNT. MATERIALS OR PRODUCTS THAT DO NOT HAVE AN (C.B.O. REPORT, WILL NOT BE CONSIDERED FOR SUBSTITUTION.

- SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS, NOT SHOWN AND FOR EXACT LOCATIONS OF ALL SLAB DEPRESSIONS. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL SECTIONS WITH THE ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL MEMBERS.

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE GRADIES WITH THE CIVIL ENGINEER'S GRADING PLAN AND THE LANDSCAPE ARCHITECT'S PLAN.

- THE DRAWINGS IN THE STRUCTURAL DOCUMENTS ARE NOT TO BE SCALED FOR ANY PURPOSE, INCLUDING THE DETERMINATION OF QUANTITIES AND THE FIT UP OF MATERIALS.

- THESE PLANS MUST BE SUBMITTED FOR REVIEW BY THE GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, AND ERECTION IN THE FIELD.

- PRECONSTRUCTION MEETINGS: THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING PRECONSTRUCTION MEETINGS FOR THE FOUNDATION AND SUPERSTRUCTURE ELEMENTS OF THE PRIMARY FRAME WITH A MINIMUM OF TWO WEEKS OF NOTICE PRIOR TO START OF THE RELEVANT WORK. ATTENDEES SHALL INCLUDE THE CONTRACTOR'S APPROPRIATE SUBCONTRACTORS, FABRICATORS, INSPECTORS, ARCHITECT/ENGINEERS, ON THE MEETING AGENDA SHALL BE REVIEW OF WORK SCOPE, PROJECT SCHEDULE, OF THE ELEMENTS IN QUESTION, CONTRACT INFORMATION OF RESPONSIBLE PARTIES, INSPECTION POINTS, REVIEW OF MATERIALS AND ANY SPECIAL DESIGN ISSUES, CLARIFICATIONS, TESTING AND ACCEPTANCE, AND ANY OTHER TOPIC DEEMED APPROPRIATE BY THE CONTRACTOR OR THE ARCHITECT.

- EXISTING UTILITIES: UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL PLANS, THE LOCATION OF ANY EXISTING SUBGRADE UTILITIES IS UNKNOWN. FOUNDATION CONSTRUCTION MAY HAVE TO BE MODIFIED UPON DISCOVERY OF SUCH ITEMS. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICT OF EXISTING UTILITY ITEMS WITH THE CONSTRUCTION OF FOUNDATION ELEMENTS.

- ROOF DRAINAGE: THE ROOF STRUCTURE AND ITS SUPPORTING ELEMENTS HAVE BEEN DESIGNED WITH THE ASSUMPTION THAT SUFFICIENT DRAINAGE HAS BEEN PROVIDED TO PREVENT ANY PONDING OF WATER.

CODES

- BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE WITH CITY OF EDINBURG, TEXAS AMENDMENTS
- STRUCTURAL CONCRETE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE, ACI 318
- STRUCTURAL STEEL MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN, AMERICAN INSTITUTE OF STEEL CONSTRUCTION, NINTH EDITION
- ASCE 7-16

WELDING

- REFERENCES:
 - AWS D1.1-86 "STRUCTURAL WELDING CODE - STEEL"
 - AWS D1.3-81 "STRUCTURAL WELDING CODE - SHEET STEEL"
- ALL WELDING BY AWS QUALIFIED OPERATORS

GENERAL NOTES

SHOP DRAWINGS AND SUBMITTALS:

A. SUBMITTAL LIST AND SCHEDULE

- THE GENERAL CONTRACTOR SHALL PREPARE A DETAILED LIST AND SCHEDULE OF ALL SUBMITTAL ITEMS TO BE SENT TO THE STRUCTURAL ENGINEER PRIOR TO THE START OF CONSTRUCTION. THE LIST SHALL INCLUDE:
 - a. DESIGN CALCULATIONS
 - b. PRODUCTS, ASSEMBLIES, AND HARDWARE
 - c. PRODUCT CERTIFICATES, MILL CERTIFICATES, AND FABRICATOR CERTIFICATES
 - d. SHOP DRAWINGS

B. SHOP DRAWINGS AND SUBMITTALS

- THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEERING REVIEW SHOP DRAWINGS AND SUBMITTALS FOR THE FOLLOWING ITEMS, BUT NOT LIMITED TO:
 - a. DRAWINGS FOR FLOOR ELEVATIONS, SLOPES, DRAINS AND LOCATION OF DEPRESSIONED AND ELEVATED FLOOR AREAS.
 - b. CONSTRUCTION JOINT LOCATIONS IN SLAB-ON-GRADE
 - c. EMBEDDED PLATES
 - d. GROUT MIX DESIGN
 - e. MASONRY ASSEMBLAGE
 - f. MISCELLANEOUS STEEL
 - g. MORTAR MIX DESIGN
 - h. PRE-ENGINEERED CANOPY REACTIONS*
 - i. REINFORCING STEEL
 - j. ROOF DECK
 - k. ROOF/TOO UNITS LOCATIONS AND ANCHORAGE*
 - l. STEEL JOISTS AND JOIST GIRDERS
 - m. STEEL STAIRS AND LADDERS*
 - n. STRUCTURAL STEEL CONNECTION DESIGN*
 - o. STRUCTURAL STEEL

- *SHOP DRAWINGS OR SUBMITTALS REQUIRED TO BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS IN.

- ALLOW A MINIMUM OF 2 WORKING DAYS FOR REVIEW OF EACH SHOP DRAWING.

C. GENERAL CONTRACTOR'S ROLE PRIOR TO SUBMISSION

- ALL SHOP DRAWINGS AND SUBMITTALS SHALL BE REVIEWED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE ENGINEER FOR REVIEW.
- THE GENERAL CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS SUBMITTED BY THEIR SUB-CONTRACTORS AND COORDINATE SHOP DRAWINGS WITH ALL OTHER TRADES PRIOR TO SUBMISSION TO THE ENGINEER FOR REVIEW.
- THE GENERAL CONTRACTOR SHALL ANSWER ALL QUESTIONS OR CLARIFICATIONS BY THE SUB-CONTRACTORS BEFORE SUBMITTING TO THE ENGINEER FOR REVIEW.
- SHOP DRAWING AND SUBMITTAL LEGIBILITY

- SHOP DRAWINGS AND SUBMITTALS SHALL USE DRAFTING LINE WORK AND LETTERING THAT IS CLEAR.
- SHOP DRAWINGS AND SUBMITTALS SHALL SHOW CLEAR AND COMPLETE INFORMATION FOR THE FABRICATION AND INSTALLATION.

E. ERRORS AND OMISSIONS

- REVIEW OF THE SHOP DRAWINGS AND SUBMITTALS IS FOR GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS. REVIEW OF THE SHOP DRAWINGS AND SUBMITTALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO SUBMITTING TO THE ENGINEER FOR REVIEW. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS IN DIMENSIONS, MATERIALS, AND/OR STRUCTURAL ELEMENTS INDICATED IN THE SHOP DRAWINGS AND SUBMITTALS.

F. DISCREPANCIES

- IF THERE EXISTS ANY DISCREPANCIES BETWEEN THE STRUCTURAL DRAWINGS AND SHOP DRAWINGS AND/OR SUBMITTALS, THE INFORMATION IN THE STRUCTURAL DRAWINGS SHALL SUPERSEDE INFORMATION THAT IS NOT INDICATED ON THE SHOP DRAWINGS SHALL BE OBTAINED FROM THE STRUCTURAL DRAWINGS.

G. REPRODUCTION

- USE OF THE ELECTRONIC FILES OR REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY THE GENERAL CONTRACTOR, AND SUB-CONTRACTOR, ERECTOR, FABRICATOR, OR SUPPLIER IS LIED OF PREPARATION OF SHOP DRAWINGS AND/OR SUBMITTALS INDICATES THEIR ACCEPTANCE OF ALL INFORMATION SHOWN IN THESE DOCUMENTS ARE 100% CORRECT AND OBLIGATES THEMSELVES TO ANY EXPENSES, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.

MISCELLANEOUS:

- CONTRACT DOCUMENTS
- IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN ALL CONSTRUCTION DOCUMENTS, THE LATEST ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUB-CONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, AND ERECTION IN THE FIELD.
- THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES.
- THE GENERAL CONTRACTOR SHALL COORDINATE ALL OPENINGS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS AND SUBMITTALS.
- REFERENCE THE COMPLETE CONTRACT DOCUMENTS ASIDE FROM THE STRUCTURAL DRAWINGS SUCH AS: F. IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SHOWN OR SPECIFIED IN SIMILAR CONDITIONS.
- WHERE DETAILS OR SECTIONS ARE NOT SHOWN IN THE DRAWINGS, THE GENERAL CONTRACTOR SHALL DEVELOP THEIR OWN DETAILS OR SECTIONS BASED ON SIMILAR DETAILS OR SECTIONS IN THE DRAWINGS.
- DRAWING CONFLICTS
- THE GENERAL CONTRACTOR SHALL GIVE NOTIFICATION OF ANY AND ALL DISCREPANCIES WITHIN THE STRUCTURAL DRAWINGS PRIOR TO BUILDING, FABRICATION, AND INSTALLATION OF ALL STRUCTURAL MEMBERS.
- CONFLICTS IN STRUCTURAL REQUIREMENTS
- WHERE CONFLICTS EXIST WITHIN THE STRUCTURAL DRAWINGS, GENERAL NOTES, OR SPECIFICATIONS, THE MORE STRINGENT, STRICTER, REQUIREMENT SHALL SUPERSEDE.

- EXISTING CONDITIONS
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE EXISTING BUILDINGS AT THE JOB SITE AND REPORT ANY DISCREPANCIES FROM ASSUMED CONDITIONS SHOWN ON THE DRAWINGS TO THE ENGINEER PRIOR TO FABRICATION, ERECTION, OR INSTALLATION OF ANY STRUCTURAL MEMBER.

- WORK SHOWN ON THE DRAWINGS IS NEW CONSTRUCTION, UNLESS NOTED AS EXISTING IN THE DRAWINGS.
- EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS IS LIMITED SITE OBSERVATION. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS.
- DEMOLITION, CUTTING, DRILLING, ETC. OF EXISTING WORK SHALL BE PERFORMED WITH HIGH CAUTION SUCH THAT IT DOES NOT JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING. IF ANY ENGINEER, ARCHITECT, CONTRACTOR, OR MEP MEMBERS OR ELEMENTS ARE CONFLICTING WITH THE NEW CONSTRUCTION, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY AND APPROVAL SHALL BE OBTAINED PRIOR TO REMOVING CONFLICTING MEMBERS OR ELEMENTS.

- PLEASE REERENCE GEOTECH REPORT FOR STRUCTURAL FILL GRADATION TO RESPECTIVE TYPE.

- PERIMETER FABRICATION CAP

- THE FINAL 18 INCHES OF FILL OUTSIDE THE BUILDING AREA SHOULD CONSIST OF A CONVEHSE LOW PERMEANCE CLAY CAP (OR CL) SOIL. THE CLAY CAP SHALL BE SLOPED AWAY FROM THE FOUNDATION WITH A MINIMUM GRADIENT OF 6 INCHES IN 5 FEET AND THE SURROUNDING AREAS SHOULD HAVE A POSITIVE DRAINAGE REVERS TO THE CIVIL DRAWINGS FOR FINAL ELEVATION.

- THE CLAY CAP CANNOT BE ALLOWED TO DRY OUT DURING OR AFTER COMPACTION. THE MINIMUM PLASTICITY INDEX SHALL BE 20.
- THE CLAY CAP SHALL BE A MINIMUM 50% BY WEIGHT PASSING THE NO. 200 SIEVE.
- THE CLAY CAP SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DRY DENSITY DETERMINED BY ASTM D698.
- THE MOISTURE CONTENT SHOULD BE 0% TO 4% WITHIN OPTIMUM.
6. PLANTINGS ARE INTENDED, ADD 4 TO 6 INCHES OF LOAM ON TOP OF THE CLAY CAP.

- FIELD CONDITIONS

- THE EVENT FOUNDATION EXCAVATIONS ARE CARRIED TO A DEPTH GREATER THAN REQUIRED, THE ADDITIONAL DEPTH SHALL BE FILLED WITH THE SAME CONCRETE AS THAT FOR THE FOOTINGS AT NO ADDITIONAL EXPENSE TO THE OWNER. NO UNCONTROLLED FILL WILL BE PERMITTED.
- THE FOOTING EXCAVATIONS SHALL BE KEPT FREE FROM LOOSE MATERIAL AND STANDING WATER.
- CARE SHOULD BE TAKEN TO SHAPE THE BUILDING AREAS SUCH THAT WATER WILL NOT POND AROUND THE STRUCTURE DURING CONSTRUCTION AND CAUSE THE NEAR SURFACE CLAYS TO SWELL.

- THE PROPOSED STRUCTURE SHALL BE ISOLATED FROM ANY MOISTURE SOURCE WHICH MIGHT ALSO CAUSE SWELLING OF THE CLAYS AFTER COMPLETION OF THE CONSTRUCTION.
- WHEN THE STRUCTURE IS COMPLETE, THE GROUND SURFACE SHOULD SLOPE AWAY FROM THE STRUCTURE.
- DO NOT PLANT OR LEAVE IN PLACE DEEP ROOTED TREES WITHIN PROXIMITY TO THE PERIMETER OF THE STRUCTURE. DEEP ROOTED TREES HAVE THE POTENTIAL TO REMOVE MOISTURE FROM BENEATH THE BUILDING IF PLANTED CLOSE ENOUGH TO ALLOW THE ROOT BULB TO EXTEND NEAR OR BENEATH THE BUILDING.

- AIR CONDITIONING CONDENSER DRAIN LINES SHALL DISCHARGE WATER AWAY FROM THE PERIMETER OF THE STRUCTURE. THE DISCHARGE AREA SHALL HAVE SUFFICIENT SLOPE AWAY FROM THE STRUCTURE TO PREVENT STANDING WATER.

- F. COORDINATION WITH GEOTECHNICAL ENGINEER

- THE GEOTECHNICAL ENGINEER SHALL BE THE OWNER'S REPRESENTATIVE TO CONTROL THE PLACEMENT OF COMPACTED FILL.
- THE GEOTECHNICAL ENGINEER SHALL APPROVE THE SUBGRADE PREPARATION, THE SELECT OF FILL MATERIAL, THE METHOD OF PLACEMENT, AND COMPACTOR.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE PLACEMENT AND TESTING OF ALL FILL WITH THE GEOTECHNICAL ENGINEER. FAILURE TO DO SO WILL REQUIRE REMOVAL OF FILL AT THE CONTRACTOR'S EXPENSE.

- A WRITTEN SOILS REPORT SHALL BE FORMULATED BY THE GEOTECHNICAL ENGINEER TO INDICATE APPROVAL OF THE COMPLETED FILL.

- G. GEOTECHNICAL REPORT

- THE PROJECT GEOTECHNICAL REPORT SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS.
- ALL EARTHWORK AND GRADING SHALL BE PERFORMED ACCORDANCE WITH THE RECOMMENDATIONS INDICATED IN THE REPORT AS SO INDICATED ABOVE, WHICHEVER IS MORE STRINGENT.

- H. CONSTRUCTION DETAILING

- THE CONTRACTOR SHALL DETERMINE THE EXTENT OF CONSTRUCTION DETAILING REQUIRED FOR THE EXCAVATION. THE CONTRACTOR SHALL SUBMIT TO THE GEOTECHNICAL ENGINEER FOR REVIEW THE PROPOSED PLAN FOR CONSTRUCTION DETAILING, PRIOR TO BEGINNING THE EXCAVATION.

DESIGN CRITERIA

- FOUNDATION AND FRAMING DESIGN IS IN ACCORDANCE WITH THE IBC 2021

2. GEOTECHNICAL REPORT: (PENDING GEOTECH REPORT)

- PROJ. NO.:

- DATE:

- MINIMUM DEPTH: 30"

- MINIMUM BEAM WIDTH: 12 INCHES

- BEARING CAPACITY (WIDENED BEAM FOOTINGS): 1.5 KSF

- BEARING CAPACITY (CONTINUOUS BEAM FOOTINGS): 1.5 KSF

- DESIGN FATIGUITY INDEX: 20

- PVR (EXISTING): 1"

3. ROOF:

- DEAD LOAD: 25 PSF

- LIVE LOAD: 20 PSF

4. WIND: BASIC WIND SPEED (3 SEC. GUST): 147 MPH

1. SOIL BEARING CAPACITY (AT PROPOSED SITE) = 1500 PSF

GEOTECHNICAL INVESTIGATION

- THE OWNER OF THIS PROJECT HAS DECLINED TO FURNISH A GEOTECHNICAL INVESTIGATION REPORT THEREFORE THE FOUNDATION DESIGN WAS BASED UPON AVERAGE SOIL CONDITIONS IN HIOALGO COUNTY, TEXAS. IF HIGHLY EXPANSIVE OR MODERATELY SOILS OR SOFT SOILS ARE ENCOUNTERED, DIFFERENTIAL FOUNDATION MOVEMENTS CAN BE EXPECTED. ALTHOUGH WE ATTEMPT TO MAKE ASSUMPTIONS THAT WILL NOT IMPAIR STRUCTURAL INTEGRITY OF THE PROJECT, WE DO NOT HAVE THE EXPERTISE OR LEVEL OF LABORATORY INVESTIGATIONS OF A GEOTECHNICAL ENGINEER. THEREFORE, THIS DESIGN CANNOT ASSUME RESPONSIBILITY FOR THE PERFORMANCE OF THE DESIGN FOUNDATION SHOULD ACTUAL SURFACE OR SUBSURFACE SOIL CONDITIONS VARY FROM THOSE ASSUMED.

- FOLLOWING ASSUMPTIONS:

1. SOIL BEARING CAPACITY (AT PROPOSED SITE) = 1500 PSF

FOUNDATION SUBGRADE:

- A. PREPARATION OF EXISTING GRADE

1. ALL AREA TO SUPPORT SELECT FILL SHALL BE STRIPPED OF ALL VEGETATION AND/OR ORGANIC TOPSOIL.
2. REMOVE ALL TREES AND ROOTS UNDER THE BUILDING'S FOOTPRINT INCLUDING CANOPIES AND OTHER STRUCTURAL FOUNDATION SHOWN IN THESE CONTRACT DOCUMENTS.
3. THE SCOPE OF EXISTING GRADE PREPARATION SHALL BE AS FOLLOWS:
 - a. MINIMUM DEPTH OF REMOVAL, PER GEOTECH REPORT
 - b. EXTEND BEYOND THE BUILDING FOOTPRINT: 5 FEET

B. EXCAVATION

1. WHERE SELECT FILL IS INDICATED IN THESE CONTRACT DOCUMENTS, THE CORRESPONDING SCOPE OF EXCAVATION SHALL BE AS FOLLOWS:
 - a. MINIMUM ELEVATION OF EXCAVATION: PER GEOTECH REPORT
 - b. EXTEND BEYOND THE BUILDING FOOTPRINT: 5 FEET

2. THE EXPOSED SUBGRADE, AFTER EXCAVATION, SHOULD BE PROFILESOLID IN ACCORDANCE WITH ITEM 216 OF TxDOT 2017 STANDARD.

3. WEAK OR SOFT AREAS IDENTIFIED DURING PROOFLIGHT ACTIVITIES SHOULD BE TREATED WITH HYDRATED LIME OR PORTLAND CEMENT OR REMOVED AND REPLACED WITH SUITABLE COMPACTED SELECT FILL. IF THE TREATMENT OPTION IS SELECTED, WEAK OR SOFT AREAS MAY BE MIXED WITH HYDRATED LIME OR PORTLAND CEMENT DOWN TO A DEPTH OF 6 INCHES.

4. THE EXPOSED SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF 12 INCHES AND MOISTURE CONDITIONED TO WITHIN 0% TO 3% OF THE OPTIMUM MOISTURE CONTENT.
5. THE SUBGRADE SHALL BE COMPACTED TO 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698.

6. FOLLOWING COMPLETE CLEARING AND PREPARATION OF THE SITE FOR CONSTRUCTION, THE GEOTECHNICAL ENGINEER SHALL OBSERVE THE SITE TO DETERMINE THAT SATISFACTORY PREPARATION HAS BEEN ACCOMPLISHED.

C. SELECT FILL

1. THE FOLLOWING SOILS MAY BE CONSIDERED SATISFACTORY FOR USE AS SELECT FILL MATERIAL AT THIS SITE:
 - a. SOILS CLASSIFIED ACCORDING TO USCS AS SC, SM, CL, CL, ML, AND COMBINATIONS OF THESE
 - b. SELECT FILL SHALL HAVE A LIQUID LIMIT OF LESS THAN 40
 - c. SELECT FILL SHALL HAVE A PLASTICITY INDEX BETWEEN AND INCLUSIVE OF 8 AND 20, LL < 40

2. THE NATIVE SOILS AT THIS SITE ARE NOT CONSIDERED SUITABLE FOR USE AS SELECT FILL.
3. PLACEMENT OF SELECT FILL SHALL MEET THE FOLLOWING CRITERIA:
 - a. SELECT FILL SHALL BE CONDITIONED AND COMPACTED UP TO THE PROPOSED FINISH FLOOR ELEVATION
 - b. FILL LIFTS NOT EXCEEDING 8 INCH LOOSE LIFTS (6 INCHES COMPACTED)
 - c. MOISTURE CONTENT: 0% TO 4% WITHIN OPTIMUM
 - d. COMPACTION: 90% OF MAXIMUM DRY DENSITY DETERMINED BY ASTM D698

4. ORGANIC OR OTHER PERISHABLE MATERIAL ARE NOT PERMITTED IN THE SELECT FILL.
5. STONES LARGER THAN 12 INCHES OR ONE-HALF THE LOOSE LIFT THICKNESS, WHICHEVER IS SMALLER, ARE NOT PERMITTED IN THE SELECT FILL.
6. THE FINISH FLOOR SHALL BE AS INDICATED ON CIVIL DRAWINGS.

7. SOILS CLASSIFIED AS BASE MATERIAL MEETING THE REQUIREMENTS OF TxDOT 2017 SPECIFICATION ITEM 247 TYPE E, GRADE 4 - CALICHE (SEE TABLE 3 FOR SPECIFICATIONS & REQUIREMENTS) OR ITEM 247 TYPE A, GRADE 12 - LIMESTONE (SEE TABLE 4 FOR SPECIFICATIONS & REQUIREMENTS).

8. BZZ RECOMMENDS ADDITIONAL QUALITY CONTROL OF ALL STRUCTURAL FILL MATERIALS AS THEY ARE PLACED AND COMPACTED TO ENSURE THAT THEY MEET THE REQUIREMENTS SPECIFIED.

9. STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D698 AT MOISTURE CONTENTS RANGING BETWEEN MINUS TWO (2) AND PLUS TWO (+2) PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT. STRUCTURAL FILL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 8 INCHES (6 INCHES COMPACTED). THE FILL SHOULD BE PROPERLY COMPACTED IN ACCORDANCE WITH THESE RECOMMENDATIONS AND TESTED FOR COMPACTION AS SPECIFIED.

10. PLEASE REERENCE GEOTECH REPORT FOR STRUCTURAL FILL GRADATION TO RESPECTIVE TYPE.

D. PERIMETER FABRICATION CAP

- THE FINAL 18 INCHES OF FILL OUTSIDE THE BUILDING AREA SHOULD CONSIST OF A CONVEHSE LOW PERMEANCE CLAY CAP (OR CL) SOIL. THE CLAY CAP SHALL BE SLOPED AWAY FROM THE FOUNDATION WITH A MINIMUM GRADIENT OF 6 INCHES IN 5 FEET AND THE SURROUNDING AREAS SHOULD HAVE A POSITIVE DRAINAGE REVERS TO THE CIVIL DRAWINGS FOR FINAL ELEVATION.

- THE CLAY CAP CANNOT BE ALLOWED TO DRY OUT DURING OR AFTER COMPACTION. THE MINIMUM PLASTICITY INDEX SHALL BE 20.
- THE CLAY CAP SHALL BE A MINIMUM 50% BY WEIGHT PASSING THE NO. 200 SIEVE.
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- THE MOISTURE CONTENT SHOULD BE 0% TO 4% WITHIN OPTIMUM.
6. PLANTINGS ARE INTENDED, ADD 4 TO 6 INCHES OF LOAM ON TOP OF THE CLAY CAP.

- THE EVENT FOUNDATION EXCAVATIONS ARE CARRIED TO A DEPTH GREATER THAN REQUIRED, THE ADDITIONAL DEPTH SHALL BE FILLED WITH THE SAME CONCRETE AS THAT FOR THE FOOTINGS AT NO ADDITIONAL EXPENSE TO THE OWNER. NO UNCONTROLLED FILL WILL BE PERMITTED.
- THE FOOTING EXCAVATIONS SHALL BE KEPT FREE FROM LOOSE MATERIAL AND STANDING WATER.
- CARE SHOULD BE TAKEN TO SHAPE THE BUILDING AREAS SUCH THAT WATER WILL NOT POND AROUND THE STRUCTURE DURING CONSTRUCTION AND CAUSE THE NEAR SURFACE CLAYS TO SWELL.

- THE PROPOSED STRUCTURE SHALL BE ISOLATED FROM ANY MOISTURE SOURCE WHICH MIGHT ALSO CAUSE SWELLING OF THE CLAYS AFTER COMPLETION OF THE CONSTRUCTION.
- WHEN THE STRUCTURE IS COMPLETE, THE GROUND SURFACE SHOULD SLOPE AWAY FROM THE STRUCTURE.
- DO NOT PLANT OR LEAVE IN PLACE DEEP ROOTED TREES WITHIN PROXIMITY TO THE PERIMETER OF THE STRUCTURE. DEEP ROOTED TREES HAVE THE POTENTIAL TO REMOVE MOISTURE FROM BENEATH THE BUILDING IF PLANTED CLOSE ENOUGH TO ALLOW THE ROOT BULB TO EXTEND NEAR OR BENEATH THE BUILDING.

- AIR CONDITIONING CONDENSER DRAIN LINES SHALL DISCHARGE WATER AWAY FROM THE PERIMETER OF THE STRUCTURE. THE DISCHARGE AREA SHALL HAVE SUFFICIENT SLOPE AWAY FROM THE STRUCTURE TO PREVENT STANDING WATER.

F. COORDINATION WITH GEOTECHNICAL ENGINEER

- THE GEOTECHNICAL ENGINEER SHALL BE THE OWNER'S REPRESENTATIVE TO CONTROL THE PLACEMENT OF COMPACTED FILL.
- THE GEOTECHNICAL ENGINEER SHALL APPROVE THE SUBGRADE PREPARATION, THE SELECT OF FILL MATERIAL, THE METHOD OF PLACEMENT, AND COMPACTOR.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE PLACEMENT AND TESTING OF ALL FILL WITH THE GEOTECHNICAL ENGINEER. FAILURE TO DO SO WILL REQUIRE REMOVAL OF FILL AT THE CONTRACTOR'S EXPENSE.

- A WRITTEN SOILS REPORT SHALL BE FORMULATED BY THE GEOTECHNICAL ENGINEER TO INDICATE APPROVAL OF THE COMPLETED FILL.

G. GEOTECHNICAL REPORT

- THE PROJECT GEOTECHNICAL REPORT SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS.
- ALL EARTHWORK AND GRADING SHALL BE PERFORMED ACCORDANCE WITH THE RECOMMENDATIONS INDICATED IN THE REPORT AS SO INDICATED ABOVE, WHICHEVER IS MORE STRINGENT.

- H. CONSTRUCTION DETAILING

- THE CONTRACTOR SHALL DETERMINE THE EXTENT OF CONSTRUCTION DETAILING REQUIRED FOR THE EXCAVATION. THE CONTRACTOR SHALL SUBMIT TO THE GEOTECHNICAL ENGINEER FOR REVIEW THE PROPOSED PLAN FOR CONSTRUCTION DETAILING, PRIOR TO BEGINNING THE EXCAVATION.

SPECIAL INSPECTION AND MATERIAL TESTING:

- GENERAL
- SPECIAL INSPECTION AND MATERIAL TESTING ARE REQUIRED FOR THIS PROJECT TO ENSURE COMPLIANCE WITH THE PROJECT BUILDING CODE, THE CONTRACT DOCUMENTS, AND SPECIFICATIONS.
- ALL SPECIAL INSPECTION AND MATERIAL TESTING SHALL COMPLY WITH CHAPTER 11 OF THE INTERNATIONAL BUILDING CODE (IBC), PROJECT EDITION.
- ALL SPECIAL INSPECTION AND MATERIAL TESTING SHALL BE PERFORMED BY A QUALIFIED APPROVED AGENCY.

- DEFINITIONS
- SPECIAL INSPECTION: INSPECTION OF CONSTRUCTION REQUIRING THE EXPERTISE OF AN APPROVED SPECIAL INSPECTOR IN ORDER TO ENSURE COMPLIANCE WITH THE APPLICABLE BUILDING CODE AND THE CONTRACT DOCUMENTS.
- APPROVED AGENCY: AN ESTABLISHED AND RECOGNIZED AGENCY REGULARLY ENGAGED IN CONDUCTING TESTS AND/OR FURNISHING INSPECTION SERVICES APPROVED BY THE BUILDING OFFICIAL OR AUTHORITIES HAVING JURISDICTION.

- CONTINUOUS INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.
- PERIODIC INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHEN THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.

- APPROVED FABRICATOR: AN INDIVIDUAL OR FIRM THAT HAS AN ESTABLISHED QUALITY CONTROL MANAGEMENT PROGRAM AND PERIODIC AUDITING OF FABRICATION PRACTICES THAT IS APPROVED BY THE BUILDING OFFICIAL AND THE ENGINEER OF RECORD THAT ALLOWS WORK TO BE DONE ON THE PREMISES OF THE FABRICATOR WITHOUT SPECIAL INSPECTION.
- ENGINEER OF RECORD (EOR): REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN OF THE STRUCTURAL SYSTEM.
- REGISTERED DESIGN PROFESSIONAL: IN RESPONSIBLE CHARGE (RDPC), A LICENSED ARCHITECT OR ENGINEER ACTING AS THE OWNER'S AGENT WHO IS RESPONSIBLE FOR THE SPECIAL INSPECTION.

- BUILDING OFFICIAL: AN OFFICER OR OTHER DESIGNATED AUTHORITY CHARGED WITH THE ADMINISTRATION AND ENFORCEMENT OF THE GOVERNING BUILDING CODE.

GENERAL NOTES

VERIFICATION AND INSPECTION OF STRUCTURAL STEEL WELDING					
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	SPECIAL INSPECTOR		REFERENCE STANDARD	IBC REFERENCE
		QCI	QAI		
	1. INSPECTION TASK PRIOR TO WELDING:				
YES	a. WELDING PROCEDURES SPECIFICATIONS (WPS) AVAILABLE	P	P		
YES	b. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	PP			
YES	c. MATERIAL IDENTIFICATION (TYPE/GRADE)	OO			
YES	d. WELDER IDENTIFICATION SYSTEM	OO			
YES	e. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) 1) JOINT PREPARATION 2) DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) 3) CLEANNESS (CONDITION OF STEEL SURFACES) 4) TACKING (TACK WELD QUALITY AND LOCATION) 5) BACKING TYPE AND FIT (IF APPLICABLE)	OO		AISC 360-10 TABLE N5.4-1, AWS D1.1	1705.2.1
YES	f. CONFIGURATION AND FINISH OF ACCESS HOLES	OO			
YES	g. FIT-UP OF FILLET WELDS 1) DIMENSIONS (ALIGNMENT, GAPS AT ROOT) 2) CLEANNESS (CONDITION OF STEEL SURFACES) 3) TACKING (TACK WELD QUALITY AND LOCATION)	OO			
YES	h. CHECK WELDING EQUIPMENT	O			
YES	2. INSPECTION TASK DURING WELDING:				
YES	a. USE OF QUALIFIED WELDERS	OO			
YES	b. CONTROL AND HANDLING OF WELDING CONSUMABLES 1) PACKING 2) EXPOSURE CONTROL	OO			
YES	c. NO WELDING OVER CRACKED TACK WELDS	OO			
YES	d. ENVIRONMENTAL CONDITIONS 1) WIND SPEED WITHIN LIMITS 2) PRECIPITATION AND TEMPERATURE	OO			
YES	e. WPS FOLLOWED 1) SETTINGS ON WELDING EQUIPMENT 2) TRAVEL SPEED 3) SELECTED WELDING MATERIALS 4) SHIELDING GAS TYPE/FLOW RATE 5) PREHEAT APPLIED 6) INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) 7) PROPER POSITION (F.V.H.OH)	OO		AISC 360-10 TABLE N5.4-2, AWS D1.1	1705.2.1
YES	f. WELDING TECHNIQUES 1) INTERPASS AND FINAL CLEANING 2) EACH PASS WITHIN PROPER LIMITATIONS 3) EACH PASS MEETS QUALITY REQUIREMENTS	OO			
YES	3. INSPECTION TASK AFTER WELDING:				
YES	a. WELDS CLEANED	OO			
YES	b. SIZE, LENGTH AND LOCATION OF WELDS	PP			
YES	c. WELD MEET VISUAL ACCEPTANCE CRITERIA 1) CRACK PROHIBITION 2) WELDBASE-METAL FUSION 3) CRATER CROSS SECTION 4) WELD PROFILES 5) WELD SIZE 6) UNDERCUT 7) POROSITY	PP		AISC 360-10 TABLE N5.4-3, AWS D1.1	1705.2.1
YES	d. ARC STRIKES	PP			
YES	e. AREA	PP			
YES	f. REMOVED AND WELD TABS REMOVED	PP			
YES	g. REPAIR ACTIVITIES	PP			
YES	h. DOCUMENT ACCEPTANCE OR REJECTION OF WELD JOINT OR MEMBER	PP			

- NOTES:
1. QCI = FABRICATORS OR ERECTORS QUALITY CONTROL INSPECTOR RESPONSIBLE FOR WORK PERFORMED IS IN COMPLIANCE WITH THE SHOP DRAWINGS, ERECTION DRAWINGS, REFERENCE SPECIFICATIONS, CODES AND STANDARDS.
- QAI = THE OWNER'S APPROVED AGENCY'S QUALITY ASSURANCE INSPECTOR (SPECIAL INSPECTOR) RESPONSIBLE FOR INSPECTION OF FABRICATED ITEMS, INSPECTION OF THE ERECTED STEEL SYSTEM, REVIEW TEST REPORTS AND CERTIFICATIONS, ITEMS NOTED IN THE TABLE ABOVE, AND FURNISHES INSPECTIONS, REPORTS, AND NONDESTRUCTIVE TESTING (NDT) REPORTS.
- O = OBSERVE THESE ITEMS IN A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
- P = PERFORM THE TASK FOR EACH WELDED JOINT OR MEMBER.
2. THE QAI IS NOT REQUIRED TO INSPECT FABRICATED ITEMS IF THE STEEL FABRICATOR IS DEEMED AN APPROVED FABRICATOR.
3. WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH THE QCI AND QAI, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QAI SO THAT THE INSPECTION FUNCTION IS PERFORMED BY ONLY ONE PARTY.
4. ALL WELD WELDING, COMPLETE, AND PARTIAL JOINT PENETRATION WELDS SHALL BE SUBJECTED TO NONDESTRUCTIVE TESTING (NDT) IN ACCORDANCE WITH AWS D1.1. ACCEPTANCE CRITERIA SHALL BE IN ACCORDANCE WITH THE AWS D1.1.
5. ACCEPTABLE NONDESTRUCTIVE TESTING (NDT) METHODS AS PER THE AISC 360 SPECIFICATION ARE AS FOLLOWS:
- a. ULTRASONIC TESTING (UT)
- b. MAGNETIC PARTICLE TESTING (MT)
- c. PENETRANT TESTING (PT)
- d. RADIOGRAPHIC TESTING (RT)
6. THE SPECIAL INSPECTOR SHALL BE RESPONSIBLE FOR DETERMINING THE APPROPRIATE NDT METHOD FOR EACH WELD.
7. ALL NOT PERFORMED SHALL BE DOCUMENTED INTO A REPORT AND SHALL INCLUDE THE FOLLOWING:
- a. LOCATION OF THE TESTED WELD
- b. WELD MARK
- c. LOCATION OF THE PIECE

VERIFICATION AND INSPECTION OF STEEL FRAMING					
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	SPECIAL INSPECTOR		REFERENCE STANDARD	IBC REFERENCE
		QCI	QAI		
YES	1. VERIFY FABRICATED STEEL IS IN COMPLIANCE WITH THE SHOP DRAWINGS	PO			
YES	2. VERIFY ERECTED STEEL IS IN COMPLIANCE WITH THE ERECTION DRAWINGS	PO			
YES	3. INSPECTION DURING PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS	P		AISC 360-10 N5.7	1705.2.1
YES	4. VERIFY DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM AND THE EXTENT OR DEPTH OF EMBEDMENT INTO CONCRETE PRIOR TO PLACEMENT OF CONCRETE	P			

- NOTES:
1. QCI = FABRICATORS OR ERECTORS QUALITY CONTROL INSPECTOR RESPONSIBLE FOR WORK PERFORMED IS IN COMPLIANCE WITH THE SHOP DRAWINGS, ERECTION DRAWINGS, REFERENCE SPECIFICATIONS, CODES AND STANDARDS.
- QAI = THE OWNER'S APPROVED AGENCY'S QUALITY ASSURANCE INSPECTOR (SPECIAL INSPECTOR) RESPONSIBLE FOR INSPECTION OF FABRICATED ITEMS, INSPECTION OF THE ERECTED STEEL SYSTEM, REVIEW TEST REPORTS AND CERTIFICATIONS, ITEMS NOTED IN THE TABLE ABOVE, AND FURNISHES INSPECTIONS, REPORTS, AND NONDESTRUCTIVE TESTING (NDT) REPORTS.
- O = OBSERVE THESE ITEMS IN A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
- P = PERFORM THE TASK FOR EACH STEEL ELEMENT.
2. THE QAI IS NOT REQUIRED TO INSPECT FABRICATED ITEMS IF THE STEEL FABRICATOR IS DEEMED AN APPROVED FABRICATOR.
3. WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH THE QCI AND QAI, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QAI SO THAT THE INSPECTION FUNCTION IS PERFORMED BY ONLY ONE PARTY.
4. AS A MINIMUM, THE DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR RODS OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE SHALL BE VERIFIED PRIOR TO PLACEMENT OF CONCRETE.

VERIFICATION AND INSPECTION OF STRUCTURAL STEEL BOLTING					
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	SPECIAL INSPECTOR		REFERENCE STANDARD	IBC REFERENCE
		QCI	QAI		
	1. INSPECTION TASK PRIOR TO BOLTING:				
YES	a. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	OP			
YES	b. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	OO			
YES	c. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	OO		AISC 360-10 TABLE N5.6-1	1705.2.1
YES	d. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O		
YES	e. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	OO			
YES	f. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	PO			
YES	g. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	OO			
YES	2. INSPECTION TASK DURING BOLTING:				
YES	a. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	OO			
YES	b. JOINT BROUGHT TO THE SNUG-TIGHT POSITION CONDITION PRIOR TO THE PRETENSIONING OPERATION	OO		AISC 360-10 TABLE N5.6-2	1705.2.1
YES	c. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	OO			
YES	d. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE NCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	OO			
YES	3. INSPECTION TASK AFTER BOLTING:				
YES	a. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	PP		IBC 3005.10.3	1705.2.1

- NOTES:
1. QCI = FABRICATORS OR ERECTORS QUALITY CONTROL INSPECTOR RESPONSIBLE FOR WORK PERFORMED IS IN COMPLIANCE WITH THE SHOP DRAWINGS, ERECTION DRAWINGS, REFERENCE SPECIFICATIONS, CODES AND STANDARDS.
- QAI = THE OWNER'S APPROVED AGENCY'S QUALITY ASSURANCE INSPECTOR (SPECIAL INSPECTOR) RESPONSIBLE FOR INSPECTION OF FABRICATED ITEMS, INSPECTION OF THE ERECTED STEEL SYSTEM, REVIEW TEST REPORTS AND CERTIFICATIONS, ITEMS NOTED IN THE TABLE ABOVE, AND FURNISHES INSPECTIONS, REPORTS, AND NONDESTRUCTIVE TESTING (NDT) REPORTS.
- O = OBSERVE THESE ITEMS IN A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
- P = PERFORM THE TASK FOR EACH BOLTED CONNECTION.
2. THE QAI IS NOT REQUIRED TO INSPECT FABRICATED ITEMS IF THE STEEL FABRICATOR IS DEEMED AN APPROVED FABRICATOR.
3. WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH THE QCI AND QAI, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QAI SO THAT THE INSPECTION FUNCTION IS PERFORMED BY ONLY ONE PARTY.

VERIFICATION AND INSPECTION OF WIND-RESISTING COMPONENTS					
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	INSPECTION FREQUENCY		REFERENCE STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
YES	1. ROOF CLADDING	X	-	-	1705.10.3
YES	2. WALL CLADDING	-	X	-	

- NOTES:
1. PERIODIC SPECIAL INSPECTION OF WIND-RESISTING COMPONENTS IS REQUIRED IF ONE OF THE FOLLOWING CRITERIA IS MET:
- a. IN WIND EXPOSURE B, WHERE $V_{ult} \geq 120$ MPH
- b. IN WIND EXPOSURE C OR D, WHERE $V_{ult} \geq 110$ MPH

VERIFICATION AND INSPECTION OF SOILS					
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	INSPECTION FREQUENCY		REFERENCE STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
YES	1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	-	X	-	
YES	2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIALS	-	X	-	
YES	3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	-	X	-	1705.6
YES	4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	-	-	
YES	5. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIALS	-	X	-	

- NOTES:
1. SPECIAL INSPECTION AND TESTING PROCEDURES OF EXISTING SOIL CONDITIONS, EXCAVATION, FILL PLACEMENT, AND LOAD-BEARING REQUIREMENTS SHALL BE BASED ON THE APPROVED GEOTECHNICAL REPORT AND THE CONTRACT DOCUMENTS.

VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION					
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	INSPECTION FREQUENCY		REFERENCE STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
YES	1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT	-	X	ACI 318: 3.5.1, 7.1.7	1910.4
YES	2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 2	-	-	AWS D1.1 ACI 318: 5.1.2	-
YES	3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED	-	X	ACI 318: 8.1.3, 21.2.3	1908.5, 1909.1
	4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDEN CONCRETE MEMBERS:				
	a. SPECIAL INSPECTOR CERTIFIED ADHESIVE ANCHOR INSTALLER	X	-		
YES	b. ADHESIVE ANCHOR INSTALLATION REPORT INDICATING CONFORMANCE TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI)	X	-	ACI 318: APPENDIX D	1909.1
	c. INSTALLATION OF MECHANICAL ANCHORS	X	-		
	d. POST-INSTALLED ANCHOR INSTALLERS CERTIFICATIONS AVAILABLE	X	-		
	5. VERIFYING USE OF REQUIRED DESIGN MIX	-	X	ACI 318: 2.4.4, 5.2.5.4	1904.2, 1910.2, 1911.3
YES	6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	-	ASTM C172, ASTM C91, ACI 318: 5.5.5.8	1910.10
YES	7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	-	ACI 318: 5.9, 5.10	1910.5, 1910.7, 1910.8
YES	8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	-	X	ACI 318: 5.11.5-13	1910.9
NO	9. INSPECTION OF PRESTRESSED CONCRETE:				
	a. APPLICATION OF PRESTRESSING FORCES	X	-	ACI 318: 18.20	-
	b. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC FORCE-RESISTING SYSTEM	X	-	ACI 318: 18.18.4	-
YES	10. ERECTION OF PRECAST CONCRETE MEMBERS	-	X	ACI 318: 18.16	-
NO	11. VERIFICATION OF CAST-IN-PLACE CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS IN PRE-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	-	X	ACI 318: 6.2	-
YES	12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	-	X	ACI 318: 6.1.1	-

VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL					
SPECIAL INSPECTION	VERIFICATION AND INSPECTION TASK	SPECIAL INSPECTOR		REFERENCE STANDARD	IBC REFERENCE
		QCI	QAI		
	1. INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT				
YES	a. VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS	PP		SOI QAI/C TABLE 1.1	1705.2.2
YES	b. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND ACCESSORIES DECK	P	P		
	2. INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT				
YES	a. VERIFY COMPLIANCE OF DECK AND ALL ACCESSORIES INSTALLATION WITH CONSTRUCTION DECK DOCUMENTS	P	P		
YES	b. VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS	-	P	SOI QAI/C TABLE 1.2	1705.2.2
YES	c. DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES	P	P		
	3. INSPECTION OR EXECUTION TASKS PRIOR TO WELDING				
YES	a. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	O	O		
YES	b. MANUFACTURER CERTIFICATIONS FOR CONSUMABLES AVAILABLE WELDING	O	O	SOI QAI/C TABLE 1.3	1705.2.2
YES	c. CHECK WELDING EQUIPMENT	O	O		
YES	d. INSPECTION OR EXECUTION TASKS DURING WELDING				
YES	a. USE OF QUALIFIED WELDERS	O	O		
YES	b. CONTROL AND HANDLING OF WELDING CONSUMABLES	O	O	SOI QAI/C TABLE 1.4	1705.2.2
YES	c. ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)	O	O		
YES	d. WPS FOLLOWED	O	O		
	5. INSPECTION OR EXECUTION TASKS AFTER WELDING				
YES	a. VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDE-LAP AND PERIMETER WELDS	P	P	SOI QAI/C TABLE 1.5	1705.2.2
YES	b. WELDS MEET VISUAL ACCEPTANCE CRITERIA	P	P		
YES	c. VERIFY REPAIR ACTIVITIES	P	P		
YES	d. DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	P	P		
	6. INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING				
YES	a. MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	O	O	SOI QAI/C TABLE 1.6	1705.2.2
YES	b. PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	O	O		
YES	c. PROPER STORAGE FOR MECHANICAL FASTENERS	O	O		
	7. INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING				
YES	a. FASTENERS ARE POSITIONED AS REQUIRED	O	O	SOI QAI/C TABLE 1.7	1705.2.2
YES	b. FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	O	O		
	8. INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING				
YES	a. CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS	P	P		
YES	b. CHECK SPACING, TYPE, AND INSTALLATION OF SIDE-LAP FASTENERS	P	P	SOI QAI/C TABLE 1.8	1705.2.2
YES	c. CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS	P	P		
YES	d. VERIFY REPAIR ACTIVITIES	P	P		
YES	e. DOCUMENT ACCEPTANCE OR REJECTION OF FASTENERS MECHANICAL	P	P		

- NOTES:
1. QCI = INSTALLER'S QUALITY CONTROL INSPECTOR RESPONSIBLE FOR CONFIRMING THAT THE MATERIAL PROVIDED AND WORK PERFORMED MEET THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS, INSTALLATION DRAWINGS, SHOP DRAWINGS, DESIGN DOCUMENTS, AND REFERENCE STANDARDS.
- QAI = THE OWNER'S APPROVED AGENCY'S QUALITY ASSURANCE INSPECTOR (SPECIAL INSPECTOR) RESPONSIBLE FOR INSPECTION OF MATERIALS, INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS AND CONFIRM COMPLIANCE WITH CONSTRUCTION DOCUMENTS AND REFERENCE STANDARDS.
- O = OBSERVE THESE ITEMS ON AN INTERMITTENT BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
- P = PERFORM THESE TASKS PRIOR TO FINAL ACCEPTANCE FOR EACH ITEM OR ELEMENT.
2. WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH THE QCI AND QAI, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QAI SO THAT THE INSPECTION FUNCTION IS PERFORMED BY ONLY ONE PARTY.

PRE-MANUFACTURED SUPERSTRUCTURE :

- DESIGN CRITERIA
INTERNATIONAL BUILDING CODE (IBC) 2021 EDITION
ASCE 98
BUILDING CODE FOR THE CITY OF CON EDINBURG, TEXAS
MAXIMUM ALLOWABLE HORIZONTAL DRIFT OF STRUCTURE = $H/400$
WHERE H = MEAN HEIGHT OF STRUCTURE
DESIGN WIND SPEED = 105 MPH, EXPOSURE "C"
MINIMUM COLLATERAL LOAD = 10 PSF PLUS ROOF TOP UNITS
- A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE OF TEXAS SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PREFABRICATED METAL BUILDING MEMBERS AND THEIR CONNECTIONS. THIS WORK SHALL ALSO INCLUDE ALL MEMBERS AND BRACES REQUIRED TO BRACE MASONRY WALLS.
- ALL DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER AND SHALL BE SUBMITTED FOR RECORD PURPOSES UPON REQUEST.
- THE SUPPLIER SHALL SUBMIT A SEALED LETTER STATING DESIGN CRITERIA FOR ALL WORK AND CERTIFYING THAT ALL DESIGNS ARE IN COMPLIANCE WITH APPLICABLE CODES.
- ALL ANCHOR BOLTS SHALL BE DESIGNED BY THE METAL BUILDING SUPPLIER AND SUPPLIED BY THE CONTRACTOR. ALL ANCHOR BOLTS SHALL CONFORM TO ASTM A308. SUBMIT MILL CERTIFICATES FOR ALL BOLTS. ALL BOLTS FOR STRUCTURAL CONNECTIONS OF BEAMS, GIRDERS, PURLINS, COLUMNS, BRACES, ETC. SHALL BE OF AMERICAN ORIGIN. NO EXCEPTIONS. SUBMIT MILL CERTIFICATES FOR ALL BOLTS.
- ALL A325 BOLTS SHALL BE FULLY TENSIONED USING THE TURN OF THE NUT METHOD.
- PROVIDE FRAMED BASE CONNECTION FROM COLUMN TO FOUNDATION.
- ALL BOLTS IN THE METAL BUILDING SHALL BE INSPECTED BY THE TESTING LAB TO CONFIRM PROPER TENSION. THE TESTING LAB SHALL INSPECT EACH AND EVERY BOLT ON THE PROJECT USING A TORQUE WRENCH. SUBMIT WRITTEN REPORTS TO THE ARCHITECT.
- THE MANUFACTURER'S ENGINEER MUST PERFORM SITE OBSERVATIONS DURING THE COURSE OF THE METAL BUILDING CONSTRUCTION TO CONFIRM THAT THE WORK IS PROGRESSING IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SHOP DRAWINGS. THE CONTRACTOR SHALL MAKE ALL NON-COMPLIANT ITEMS ACCEPTABLE TO THE ENGINEER PRIOR TO CONTINUING WITH ANY FINISH WORK. AT THE END OF THE JOB, THE MANUFACTURER'S REGISTERED TEXAS P.E. MUST SUBMIT A SEALED LETTER TO THE OWNER AND ARCHITECT STATING THAT THE DESIGN AND CONSTRUCTION OF THE METAL BUILDING IS IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND ALL APPLICABLE CODES.
- THIS FOUNDATION HAS BEEN DESIGNED USING ASSUMED REACTIONS FROM THE PRE-ENGINEERED BUILDING COMPONENTS AND IS FOR BID PURPOSES ONLY. THE CONTRACTOR SHALL SUBMIT BASE CONNECTION DETAILS (SIZE AND THICKNESS BASE PLATE AND DIAMETER AND LENGTH ANCHOR BOLTS) AND REACTIONS OF THE BUILDING FRAMES TO THE ENGINEER PRIOR TO CONSTRUCTION SO THE DESIGN ASSUMPTIONS CAN BE VERIFIED. DEPTH OF ANCHOR BOLTS SHALL BE SUFFICIENT.
- ANY ADDITIONAL COST OF FOUNDATION WORK REQUIRED BY REVISIONS OF THE FOUNDATION DESIGN AFTER PRE-ENGINEERED BUILDING REACTIONS ARE SUBMITTED SHALL BE BY OTHERS.



TEXAS ARCHITECT
FIRM No: BR4247
WWW.CGSARCHITECT.COM

SEAL:

ECISD HIGH SCHOOL
ATHLETIC
MULTI-USE
BUILDING
25-74

EDINBURG
HIGH SCHOOL

2600 E
Wisconsin Rd,
Edinburg, TX
78542

CLIENT:
EDINBURG CISD

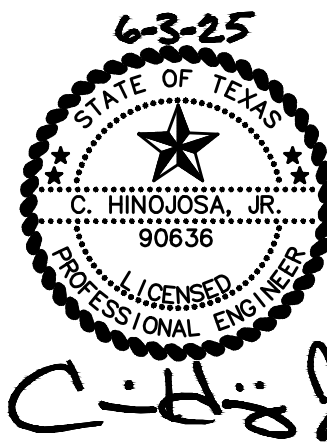
REVISION:		
No.	Description	Date

PROJECT #:
DRAWN BY:
CHECKED BY:
DATE: 4/28/25

GENERAL
NOTES

ADDENDUM #2

S1.2



CHLH
ENGINEERING, LLC
TBP# FIRM No. F-8719
701 S. 15th STREET McALLEN, TX. 78501
(956) 687-5560



TEXAS ARCHITECT
FIRM No: BR4247
WWW.CGSARCHITECT.COM

SEAL:

ECISD HIGH
SCHOOL
ATHLETIC
MULTI-USE
BUILDING
25-74

EDINBURG
HIGH SCHOOL

2600 E
Wisconsin Rd,
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78542

CLIENT:
EDINBURG CISD

REVISION:		
No.	Description	Date

PROJECT #:
DRAWN BY:
CHECKED BY:
DATE: 4/28/25

FOUNDATION
PLAN

ADDENDUM #2

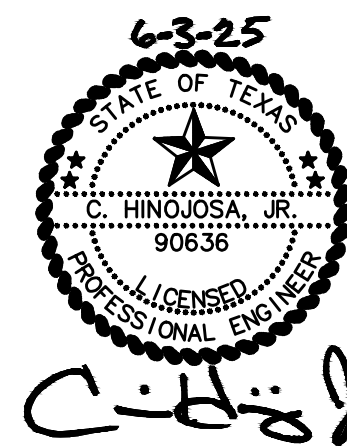
S2.0

FOUNDATION NOTES:

- SEE SHEET S1.0, S1.1, S1.2 & S1.3 FOR GENERAL NOTES.
- FOR TYPICAL DETAILS SEE SHEETS SD1.0 & SD1.1
- CONTRACTOR/SUBCONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING ANY WORK. THE CONTRACTOR AND OR SUBCONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT AND ENGINEER BEFORE THE WORK HAS BEGUN.
- REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DIMENSIONS.
- REFER TO ARCHITECTURAL PLANS FOR FLOOR DRAIN LOCATIONS.
- SLOPE SLAB TO DRAINS. SEE ARCHITECTURAL PLANS FOR SLOPE.
- REFER TO ARCHITECTURAL PLANS FOR FLOOR FINISHES. ENGINEER IS NOT RESPONSIBLE FOR TYPE OF FLOOR FINISHES.
- PROVIDE SLAB CONTRACTION JOINTS PER TYPICAL DETAIL.
- THE TESTING LABORATORY SHALL BE THE OWNER REPRESENTATIVE TO CONTROL THE PLACEMENT OF COMPACTED FILL. THE TESTING LABORATORY SHALL APPROVE THE SUBGRADE PREPARATION, THE FILL MATERIALS, THE METHOD OF PLACEMENT AND COMPACTION, AND COMPACTION, AND SHALL INDICATE ON THERE REPORT THE ELEVATION OF THE COMPACTED SUBGRADE.
- ALL EARTHWORK AND GRADING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERING STUDY. THE STRINGENT REQUIREMENTS BETWEEN THESE SUBGRADE NOTES AND GEOTECHNICAL ENGINEERING STUDY SHALL GOVERN AND EXECUTED BY THE CONTRACTOR.
- IN THE EVENT FOUNDATION EXCAVATIONS ARE CARRIED TO A DEPTH GREATER THAN REQUIRED, THE ADDITIONAL DEPTH SHALL BE FILLED WITH THE SAME CONCRETE AS THAT USED FOR FOOTING AT NO ADDITIONAL EXPENSE TO THE OWNER. NO UNCONTROLLED FILL WILL BE PERMITTED.
- THE FOOTING EXCAVATIONS SHALL BE KEPT FREE FROM LOOSE MATERIAL AND STANDING WATER.
- THE FOUNDATION EXCAVATIONS SHOULD BE OBSERVED BY THE TESTING LABORATORY PRIOR TO STEEL OR CONCRETE PLACEMENT TO ASSESS THAT THE FOUNDATION MATERIALS ARE CAPABLE OF SUPPORTING THE DESIGN LOADS AND ARE CONSISTENT WITH THE MATERIALS DISCUSSED IN THE STUDY. THIS IS ESPECIALLY IMPORTANT TO IDENTIFY THE ACCEPTABILITY OF THE SUBGRADE OR FILL MATERIAL UNDER THE FOOTING. SOFT OR LOOSE SOIL ZONES ENCOUNTERED AT THE BOTTOM OF THE FOOTING OR BEAM EXCAVATIONS SHOULD BE EXCAVATIONS SHOULD BE REMOVED TO THE LEVEL OF COMPETENT SOIL AS DIRECTED BY THE TESTING LABORATORY. CAVITIES FORMED AS A RESULT OF EXCAVATION OF SOFT OR LOOSE SOIL ZONES SHOULD BE BACKFILLED WITH LEAN CONCRETE OR SELECT FILL AS DETERMINED BY THE TESTING LABORATORY.
- CARE SHOULD BE TAKEN TO SHAPE THE BUILDING AREAS SUCH THAT WATER WILL NOT POND AROUND THE STRUCTURE DURING CONSTRUCTION AND CAUSE THE NEAR SURFACE CLAYS TO SWELL. THE PROPOSED STRUCTURE SHALL BE ISOLATED FROM ANY MOISTURE SOURCE WHICH MIGHT ALSO CAUSE SWELLING OF THE CLAYS AFTER COMPLETION OF THE CONSTRUCTION.
- WHEN THE STRUCTURE IS COMPLETE, THE GROUND SURFACE SHOULD SLOPE AWAY FROM THE STRUCTURE AND DOWN SPOUTS SHOULD CARRY RUNOFF WATER SEVERAL FEET FROM THE BUILDING, PREFERABLY INTO PAVED AREAS OR SEWERS, BEFORE DISCHARGING.
- DO NOT PLANT, OR LEAVE IN PLACE, DEEP ROOTED TREES WITHIN CLOSE PROXIMITY TO THE PERIMETER OF THE STRUCTURE. DEEP ROOTED TREES HAVE POTENTIAL TO REMOVE MOISTURE FROM BENEATH THE BUILDING IF PLATED CLOSE ENOUGH TO ALLOW THE ROOT BULB EXTEND NEAR OR BENEATH THE BUILDING.
- AIR CONDITIONING CONDENSER DRAIN LINES TO DISCHARGE WATER A MINIMUM OF 5 FEET FROM THE PERIMETER OF THE STRUCTURE. THE DISCHARGE AREA SHALL HAVE SUFFICIENT SLOPE AWAY FROM THE STRUCTURE TO PREVENT STANDING WATER.
- THE FINAL ONE (1) FOOT OF FILL OUTSIDE THE BUILDING AREA SHOULD CONSIST OF A COHESIVE CLAYEY (CL) SOIL. FILL CAN NOT BE ALLOWED TO DRY OUT DURING OR AFTER COMPACTION.
- NOTE THAT SOME LEVELS OF RISK ARE ASSOCIATED WITH ALL FOUNDATION SYSTEMS AND THERE IS NO SUCH THING AS A "ZERO RISK" FOUNDATION. IT ALSO SHOULD BE NOTED THAT THE FOUNDATION PROVIDED IS NOT DESIGNED TO RESIST SOIL MOVEMENT AS A RESULT OF SEWER/PLUMBING LEAKS, EXCESSIVE IRRIGATION, NON UNIFORM IRRIGATION, POOR DRAINAGE, AND WATER PONDING NEAR THE FOUNDATION SYSTEM.
- CONSTRUCTION FOLLOWING WET WEATHER PERIODS WILL LIKELY ENCOUNTER DIFFICULTIES DUE TO THE WET OR SOFT SURFACE SOILS BECOMING A GENERAL HINDRANCE TO EQUIPMENT DUE TO RUTTING AND PUMPING OF THE SOIL SURFACE. IF THE SUBGRADE CANNOT BE ADEQUATELY COMPACTED TO MINIMUM DENSITIES AS DESCRIBED ABOVE, ONE OF THE FOLLOWING MEASURES WILL BE REQUIRED:
 - REMOVAL AND REPLACEMENT WITH SELECT FILL
 - CHEMICAL TREATMENT OF THE SOIL TO DRY SOIL AND INCREASE THE STABILITY OF THE SUBGRADE
 - DRYING BY NATURAL MEANS.
- ALL FOOTINGS TO HAVE #5s AT 12" O.C. EACH WAY TOP AND BOTTOM REINFORCING.
- FOLLOWING ARE THE SIZES OF THE REQUIRED FOOTINGS:
 - CS - INDICATES A 5'-6" x 5'-6" x 3'-0" DEEP CEE FOOTING
 - T6 - INDICATES A 6'-6" x 6'-6" x 3'-0" DEEP TEE FOOTING

SLAB ON GRADE	
THICKNESS:	5 INCHES
REINFORCING (EACH WAY)	#4 AT 14" O.C.
REINFORCING LOCATION	MID DEPTH
VISQUEEN	10 MIL
CONCRETE CHAIRS (NOT PLASTIC CHAIRS ALLOWED)	3'-0" O.C. EACH WAY

1 FOUNDATION PLAN
SCALE: 3/16"=1'-0"



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ECISD HIGH SCHOOL
ATHLETIC
MULTI-USE
BUILDING
25-74

EDINBURG
HIGH SCHOOL

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Edinburg, TX
78542

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No.	Description	Date

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ROOF
FRAMING
PLAN

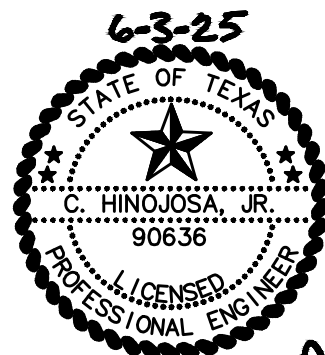
ADDENDUM #2

S3.0

METAL BUILDING NOTES:

1. THE DESIGN AND CONSTRUCTION OF THE METAL BUILDING IS THE RESPONSIBILITY OF THE SUPPLIER. THE PLAN SHOWN IS SCHEMATIC ONLY.
2. VERIFY SIZE AND LOCATION OF ALL SUPPORTED ITEMS WITH MANUFACTURER AND ARCH'L DRAWINGS. PRIOR TO FABRICATING STEEL. PROVIDE ALL FRAMING INCLUDING SUB PURLINS AND ROD HANGERS BETWEEN "Z" PURLINS AS REQ'D.
3. THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION AND NUMBER OF MECH'L UNITS SUPPORTED BY THE METAL BUILDING STRUCTURE PRIOR TO ORDERING THE METAL BUILDING. SUPPORT FRAMING SHALL BE PROVIDED FOR ALL UNITS WHETHER THEY ARE SHOWN ON THIS DRAWING OR NOT.

1 ROOF FRAMING PLAN
SCALE: 3/16"=1'-0"



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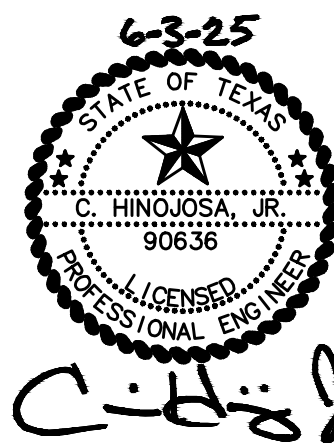
ALTERNATE
ROOF
FRAMING
PLAN
ADDENDUM #2

S3.1

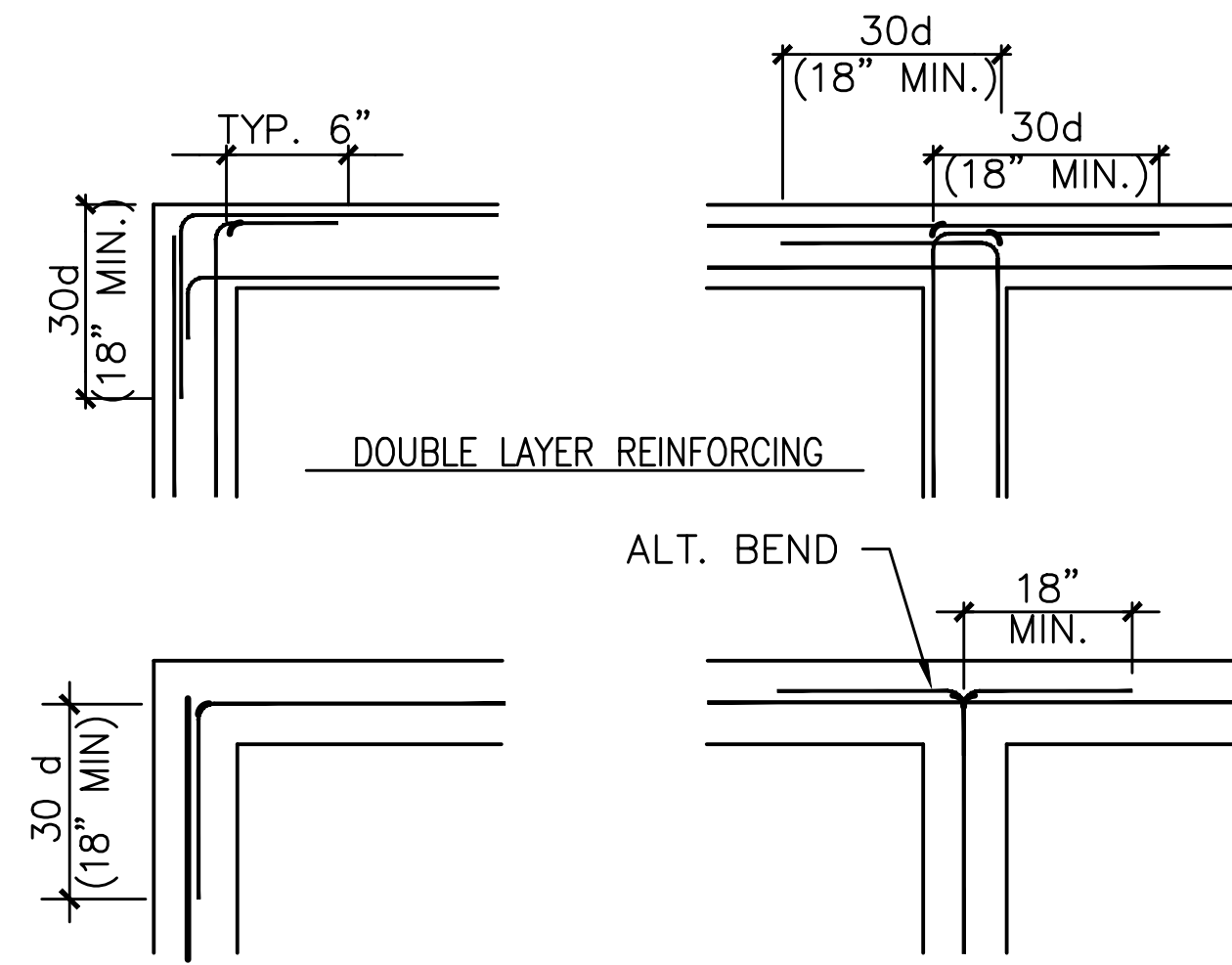
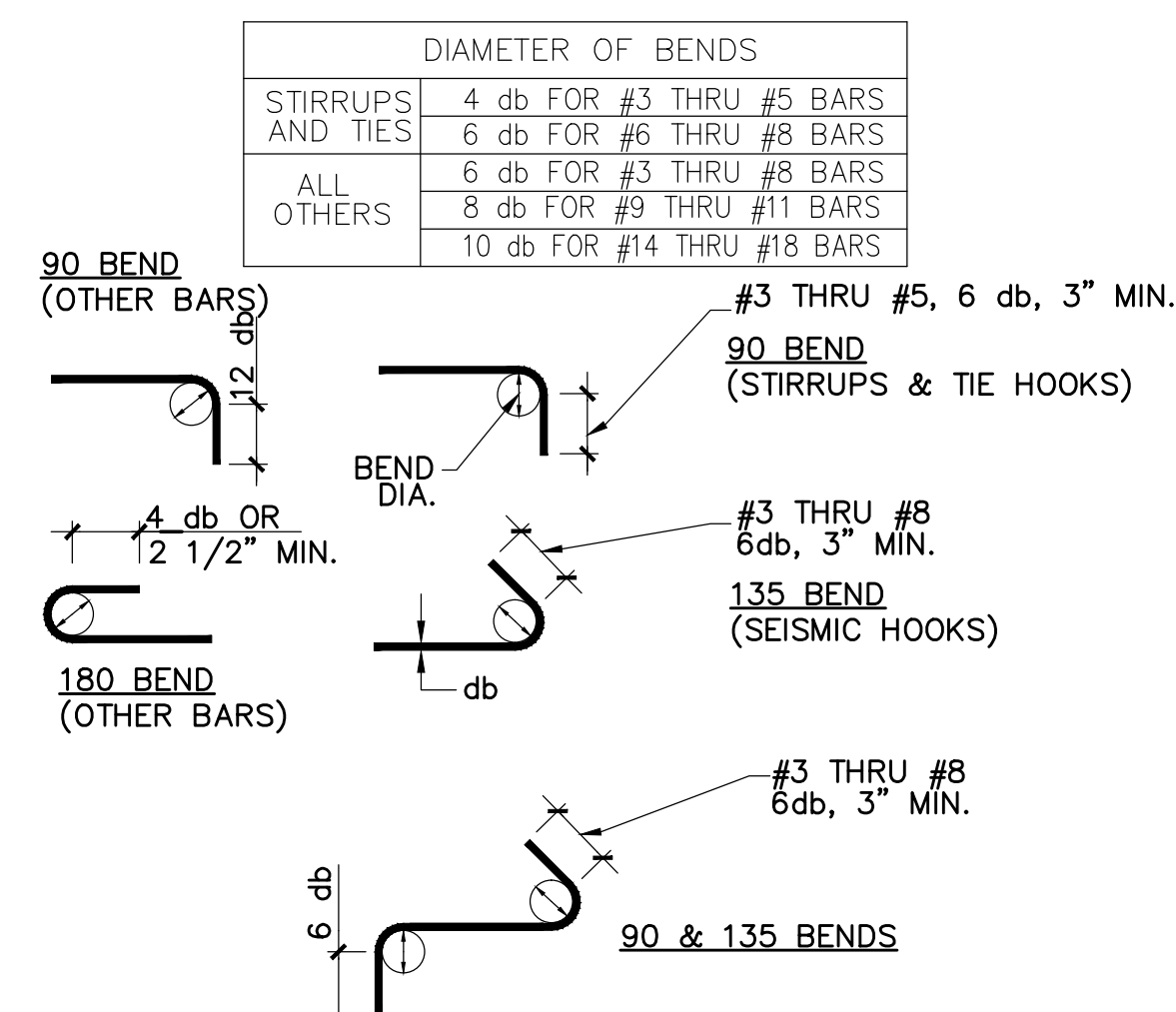
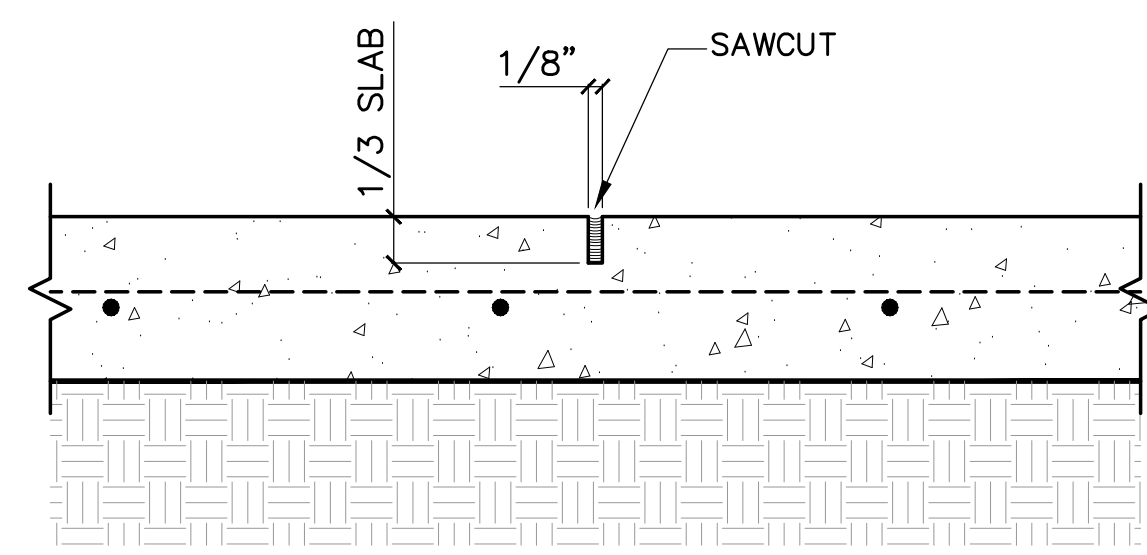
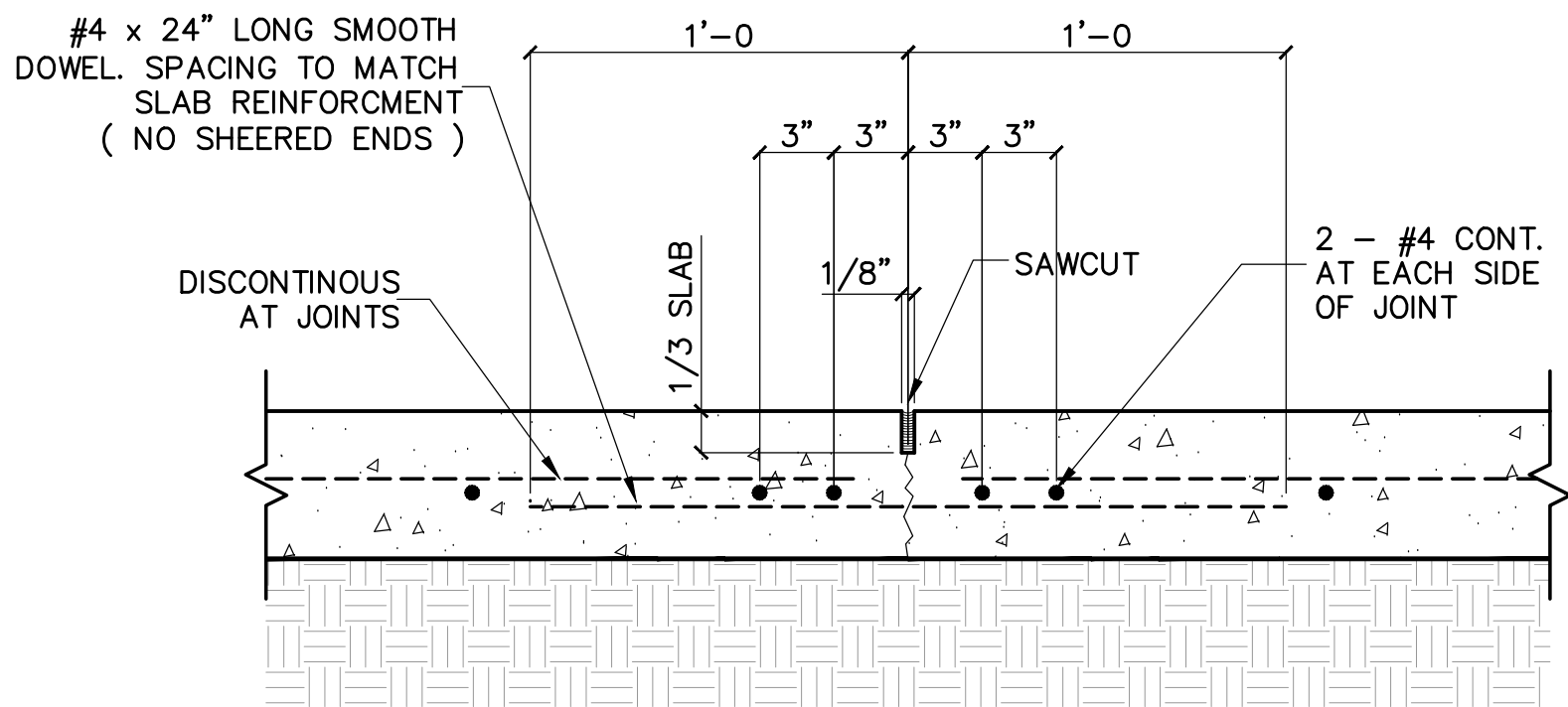
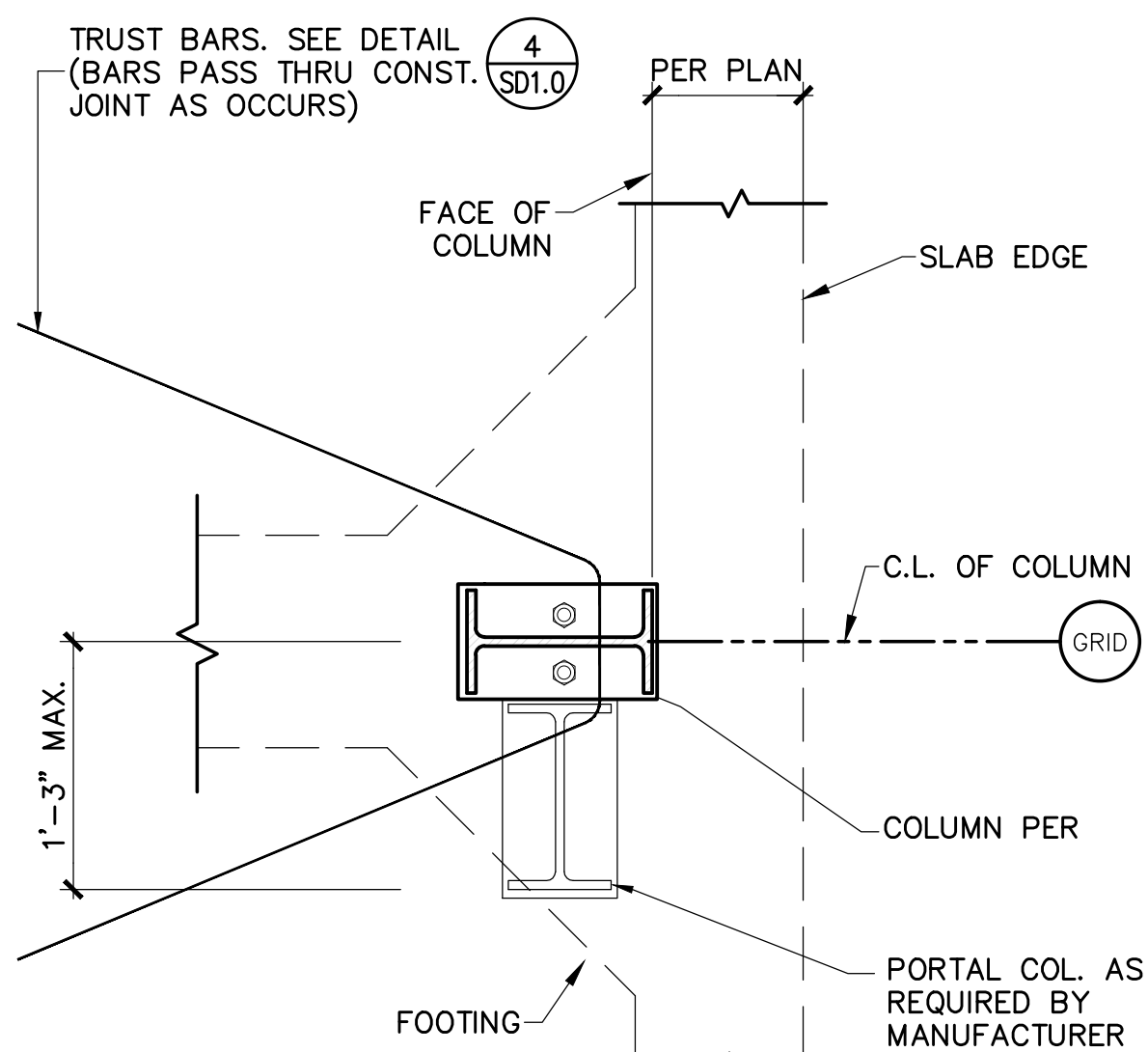
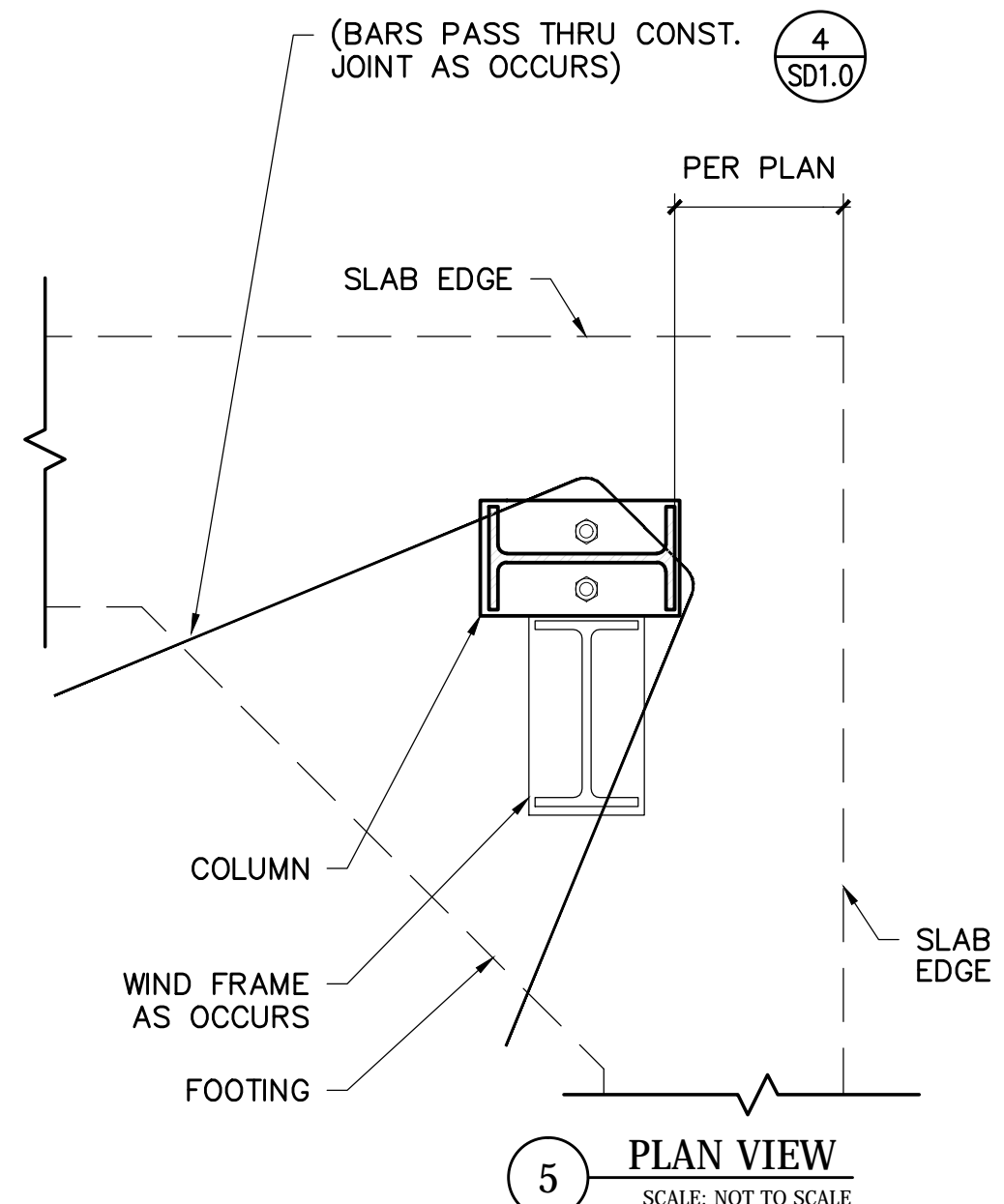
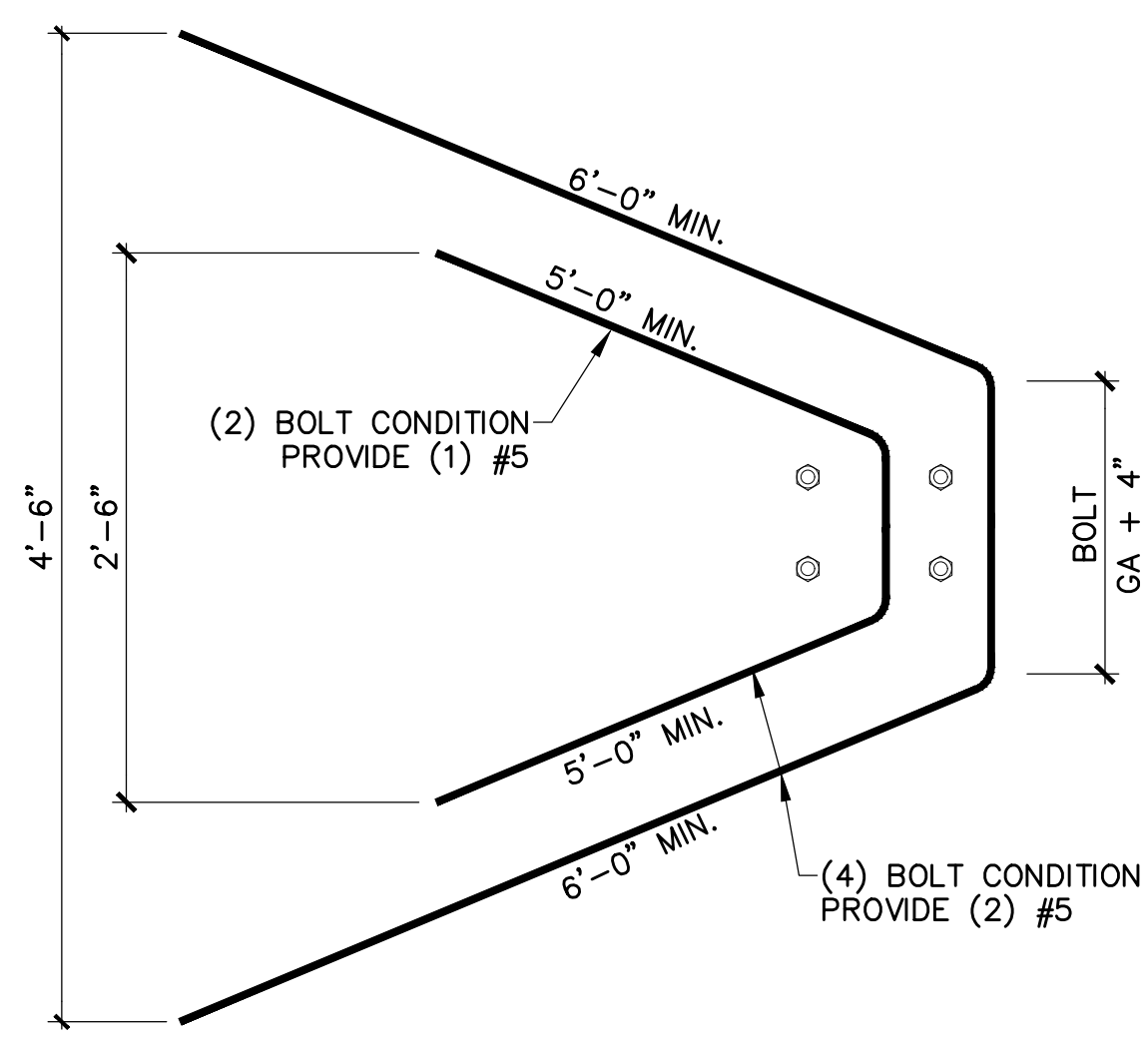
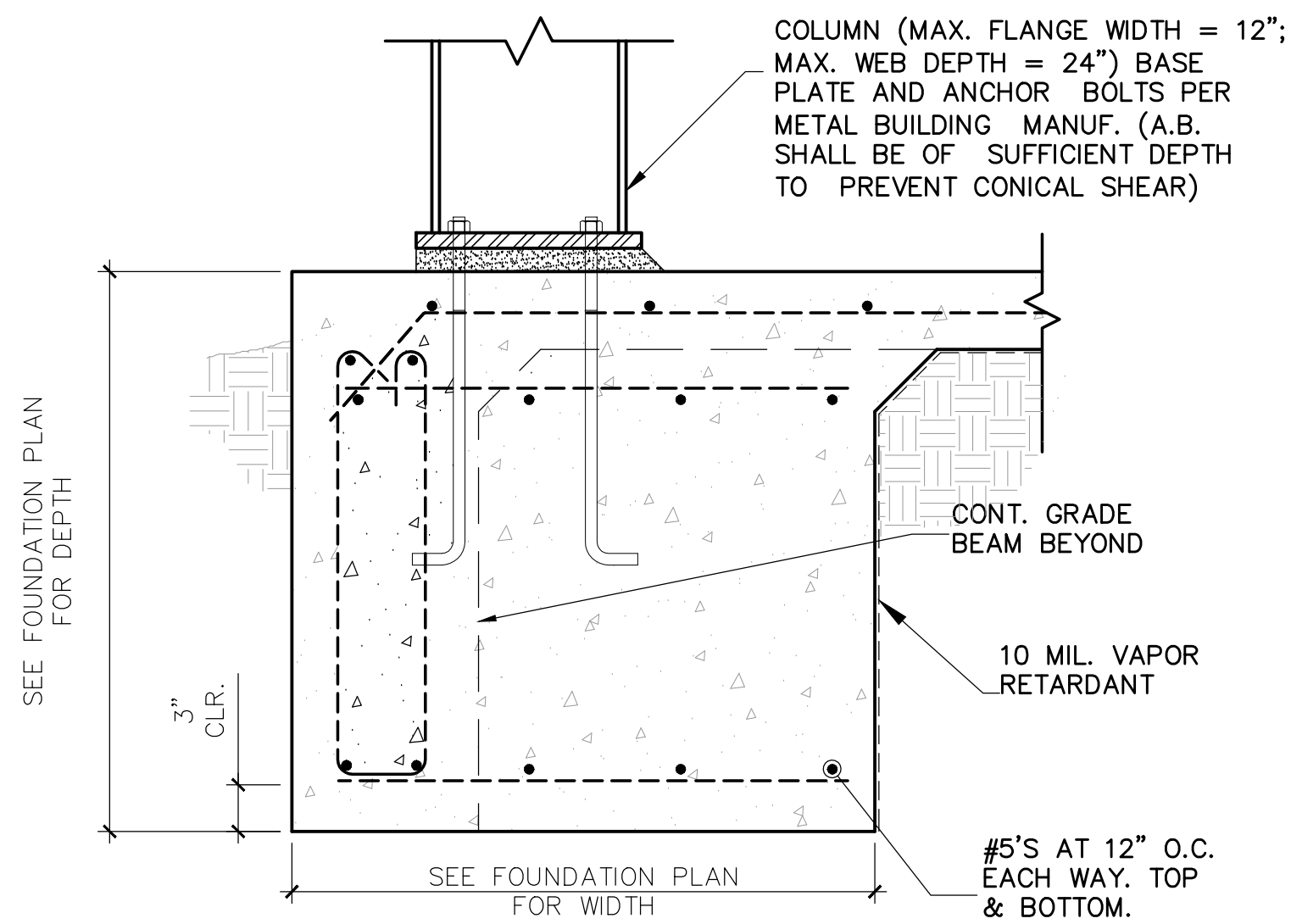
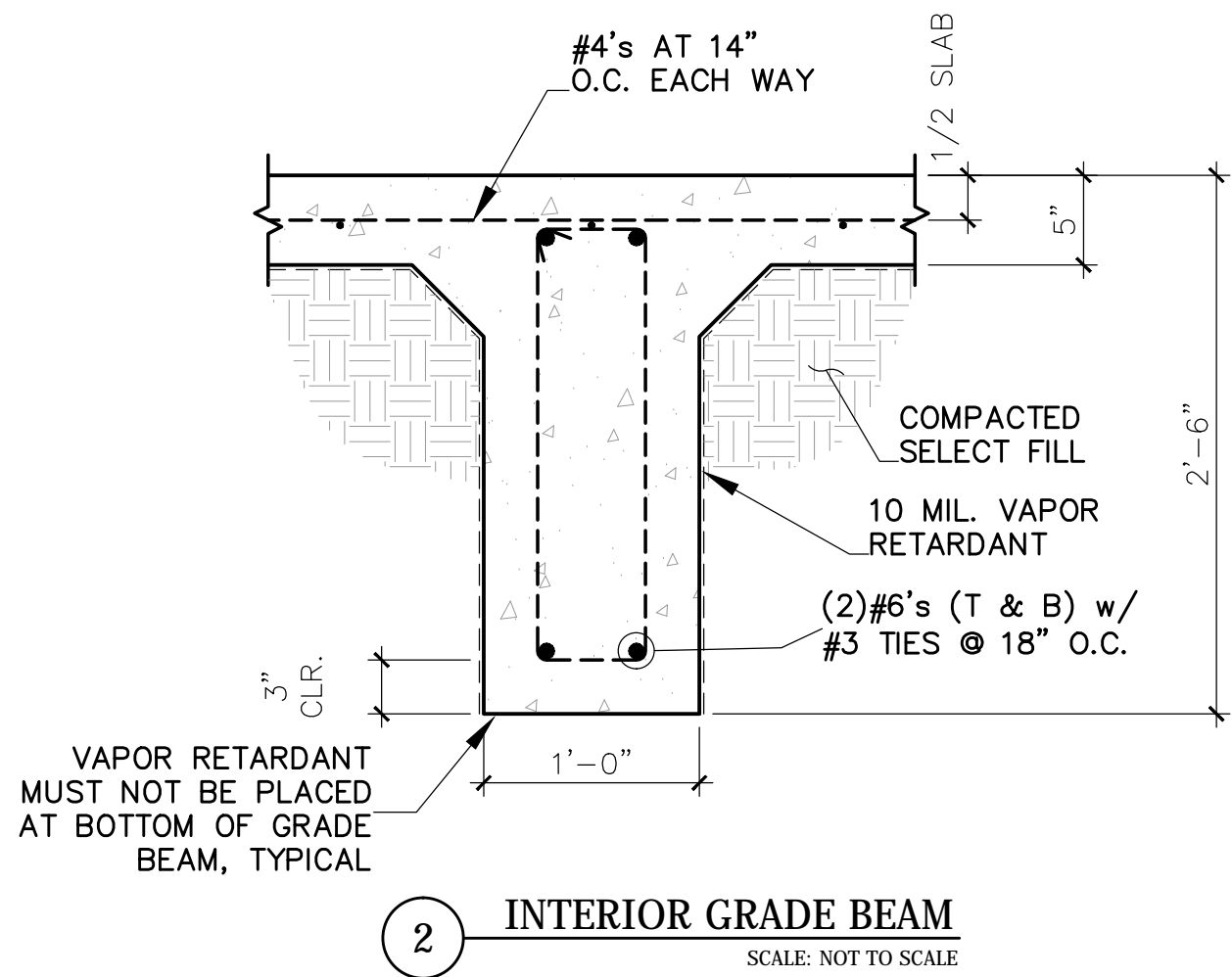
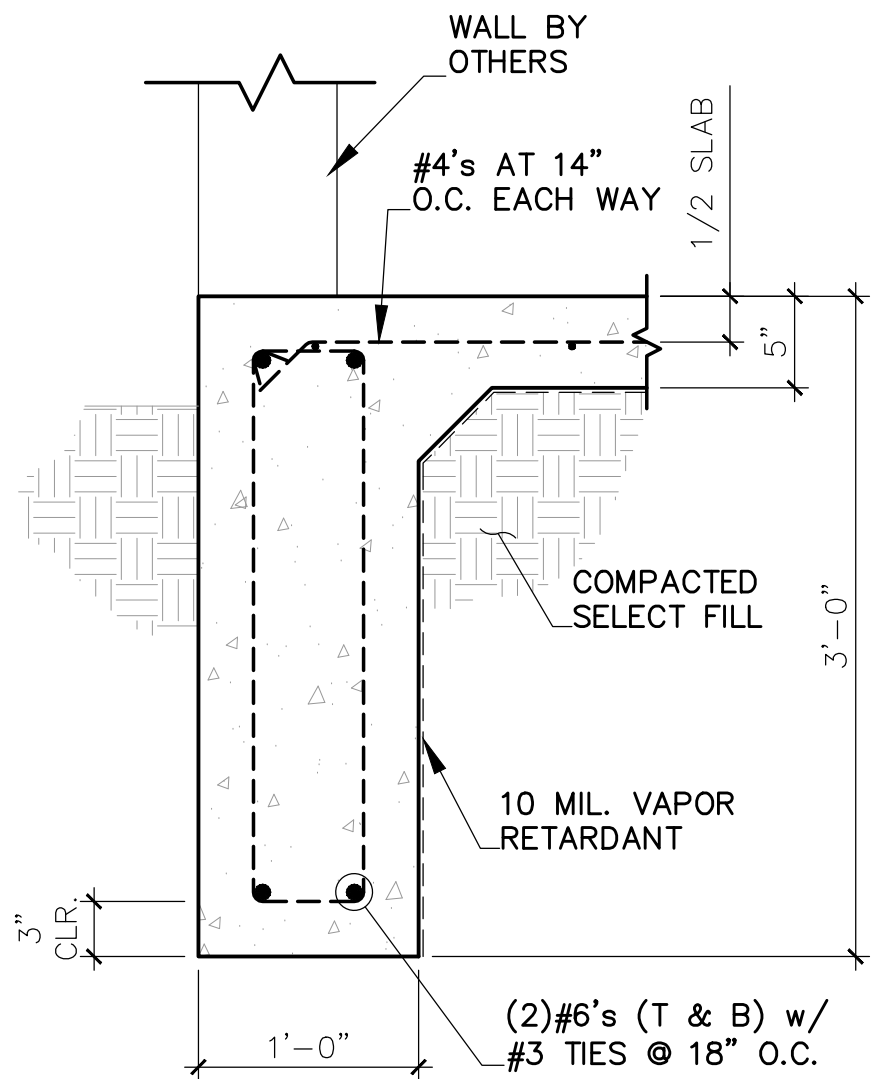
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1 ALTERNATE
ROOF FRAMING PLAN
SCALE: 3/16"=1'-0"

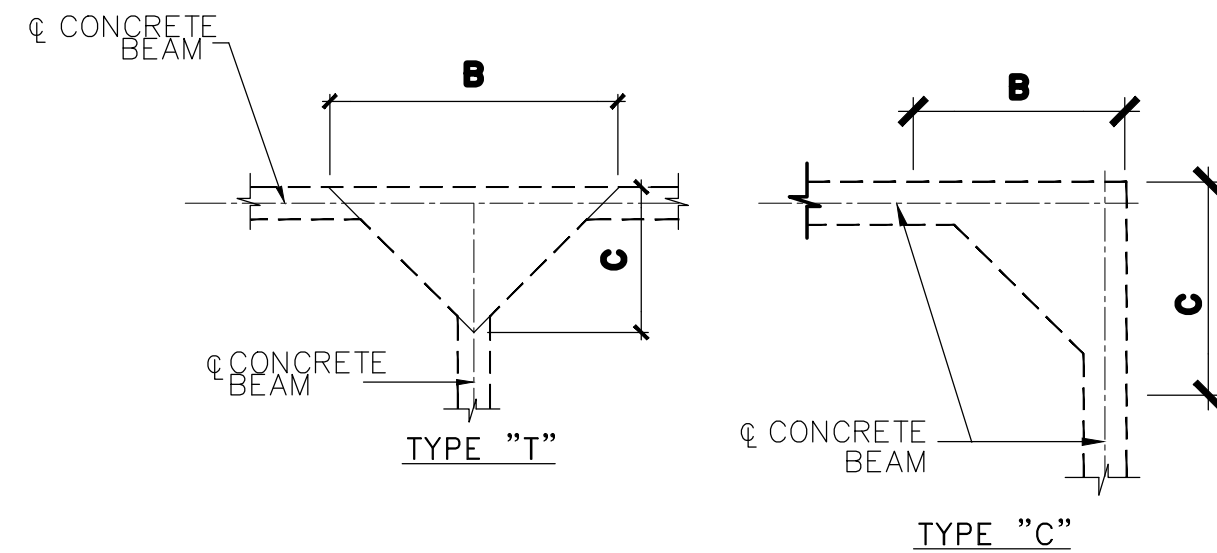


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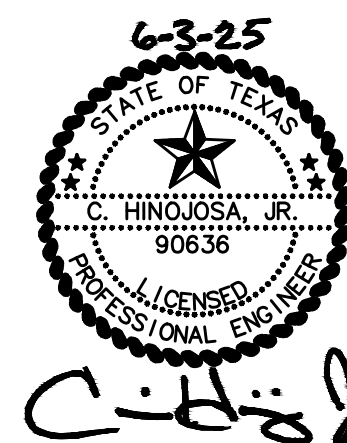
FOOTING SCHEDULE					
TYPE	A	B	C	D	REINFORCING
C5		5'-6"	5'-6"	3'-0"	#5'S @ 12" O.C. E.W. TOP & BOT.
T6		6'-6"	6'-6"	3'-0"	#5'S @ 12" O.C. E.W. TOP & BOT.

- NOTES:
1. D = FOOTING DEPTH BELOW FINISH FLOOR
 2. FOOTING DIMENSIONS ARE FOR BIDDING PURPOSES ONLY. ACTUAL DIMENSIONS MAY VARY.
 3. PROVIDE UNIT PRICES (ON A CUBIC YARD BASIS) FOR REINFORCED (#6'S @ 8" OC EW TOP & BOT.) WIDENED BEAM CONCRETE FOOTINGS



WIDENED BEAM FOOTINGS

11 FOOTING AT COLUMN



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SEAL:

ECISD HIGH SCHOOL ATHLETIC MULTI-USE BUILDING 25-74

EDINBURG HIGH SCHOOL

2600 E Wisconsin Rd,
Edinburg, TX
78542

CLIENT:
EDINBURG CISD

REVISION:		
No.	Description	Date

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DATE: 4/28/25

FOUNDATION DETAILS

ADDENDUM #2

SD1.0



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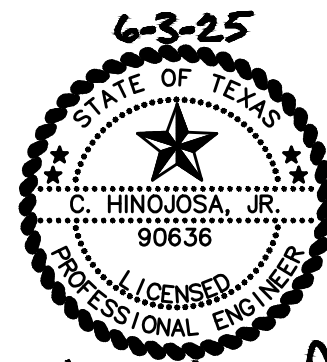
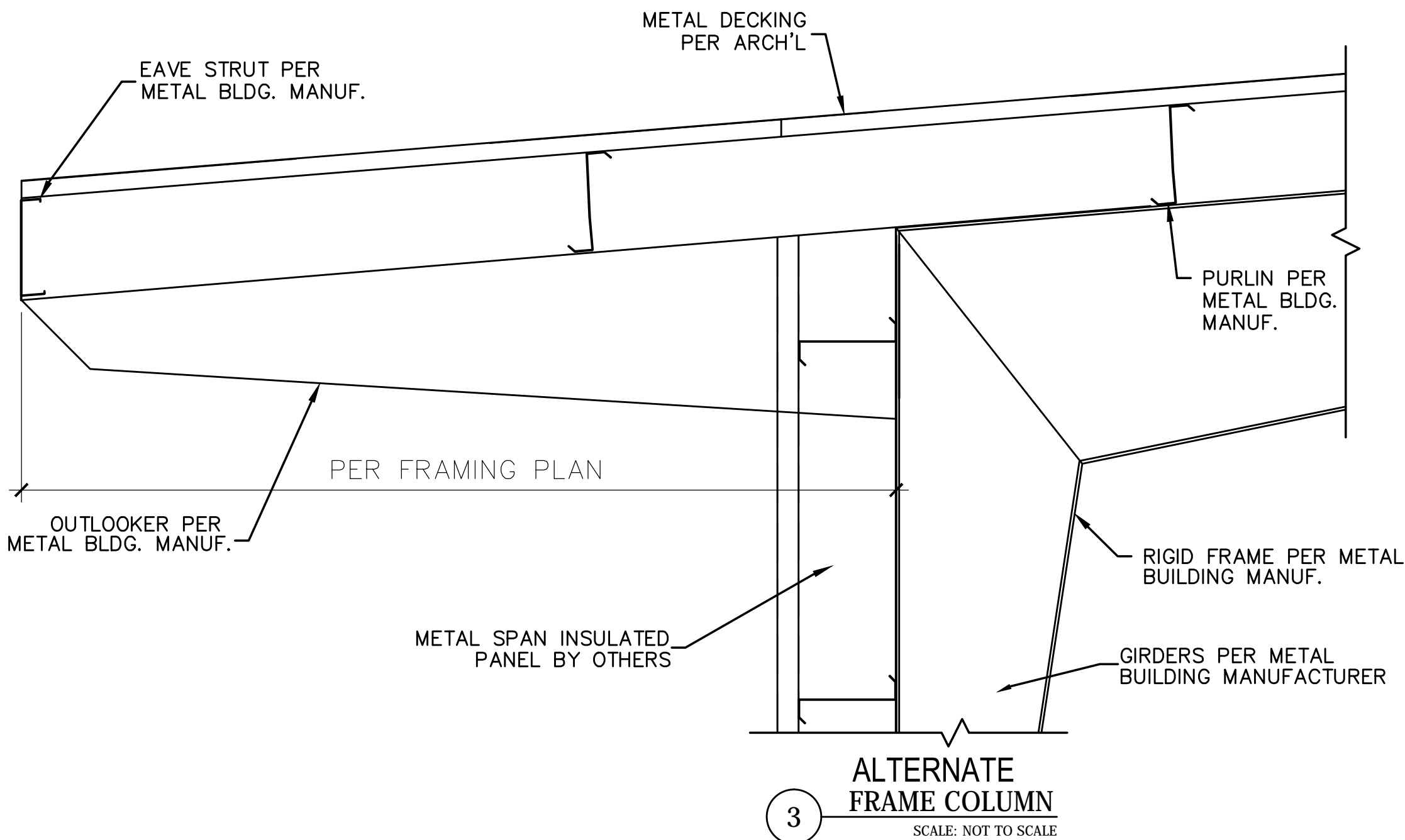
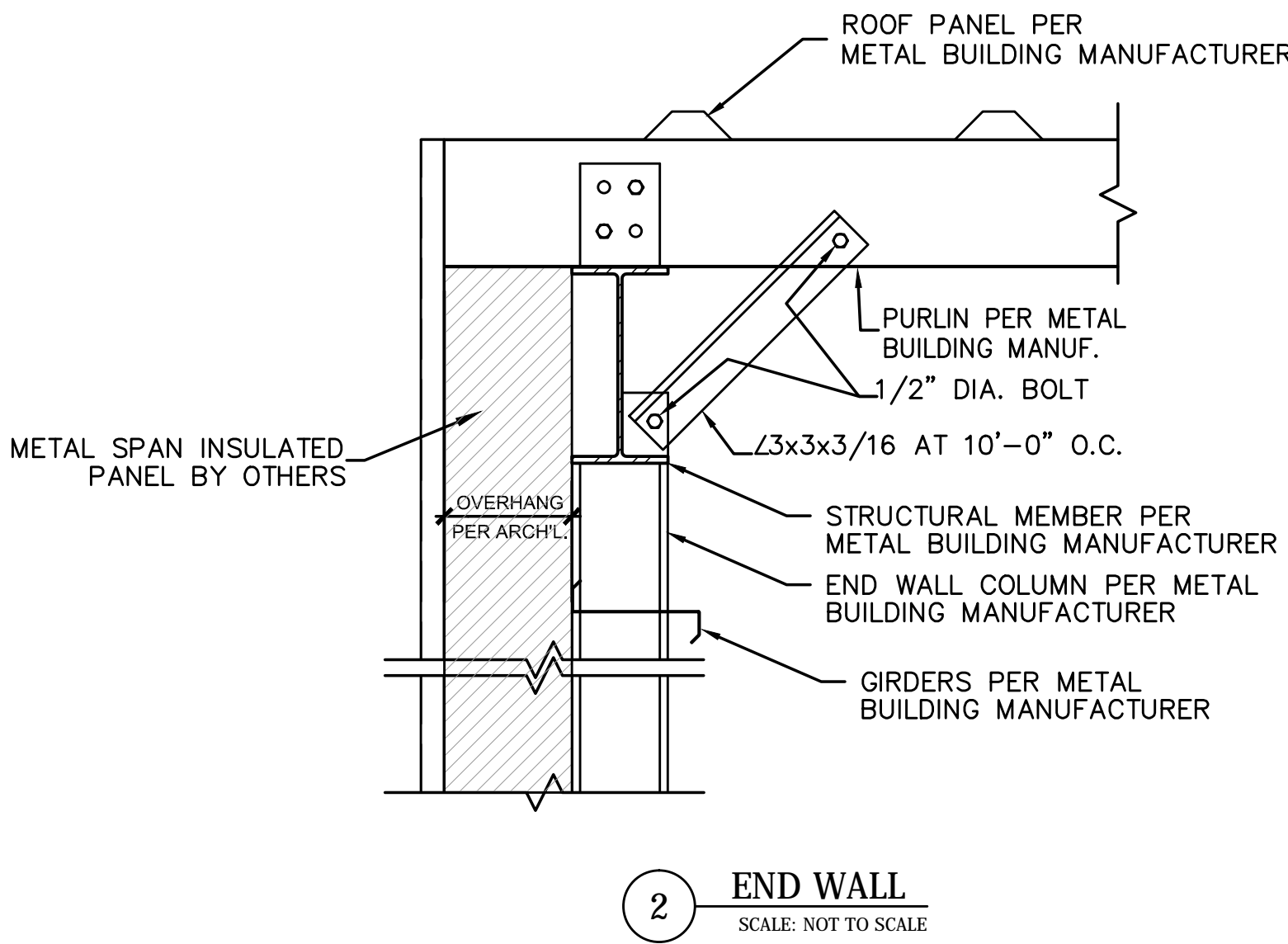
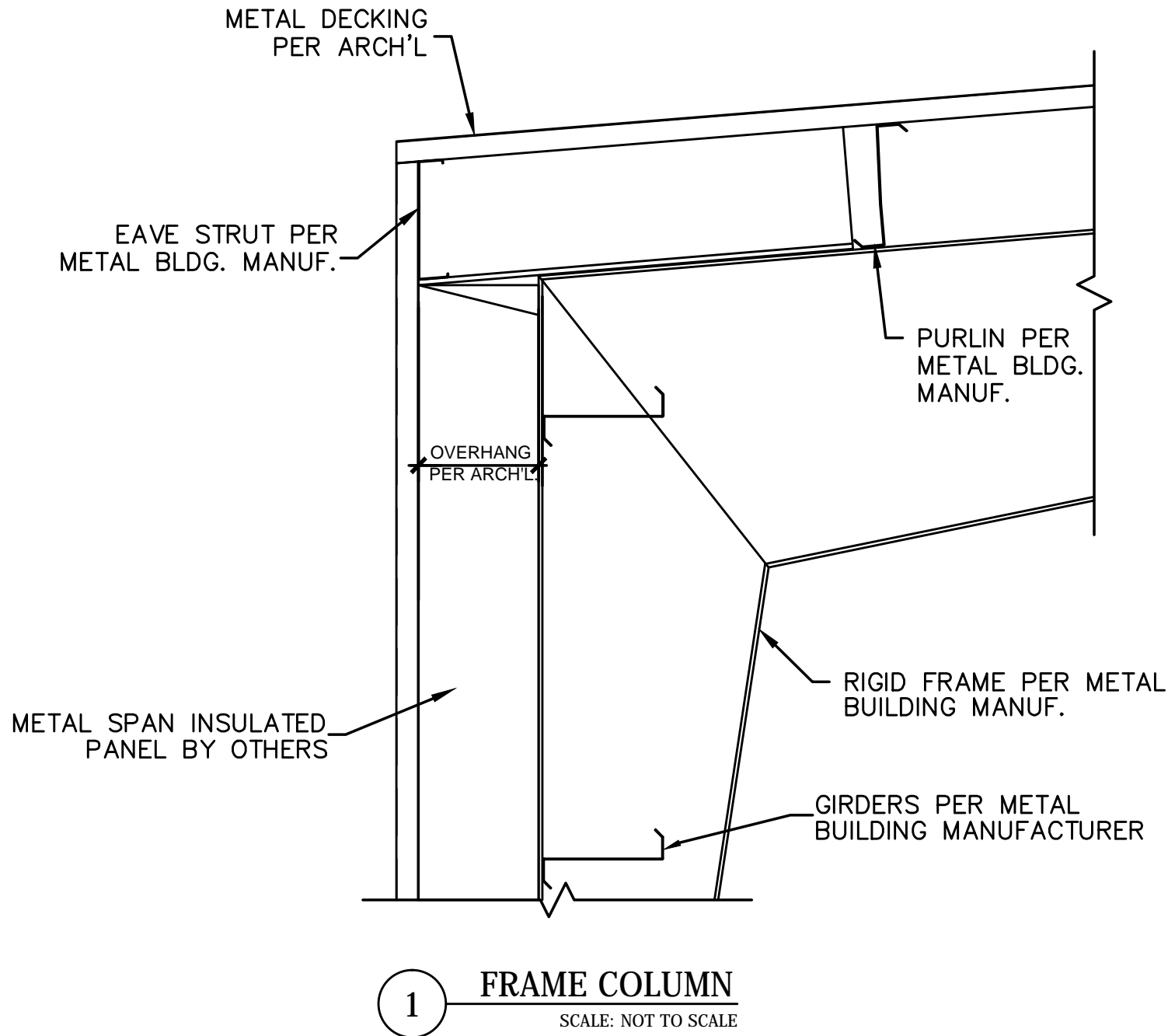
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FRAMING
DETAILS

ADDENDUM #2

SD2.0



C. Hinojosa, Jr.

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EDINBURG CISD

REVISION:

No.	Description	Date
1	ADDENDUM #2	06-03-2025

PROJECT #: 25-030102

DRAWN BY: N.M.

CHECKED BY: CG3

DATE: 06/03/25

MECHANICAL
FLOOR PLAN -
TYPICAL BLDG.

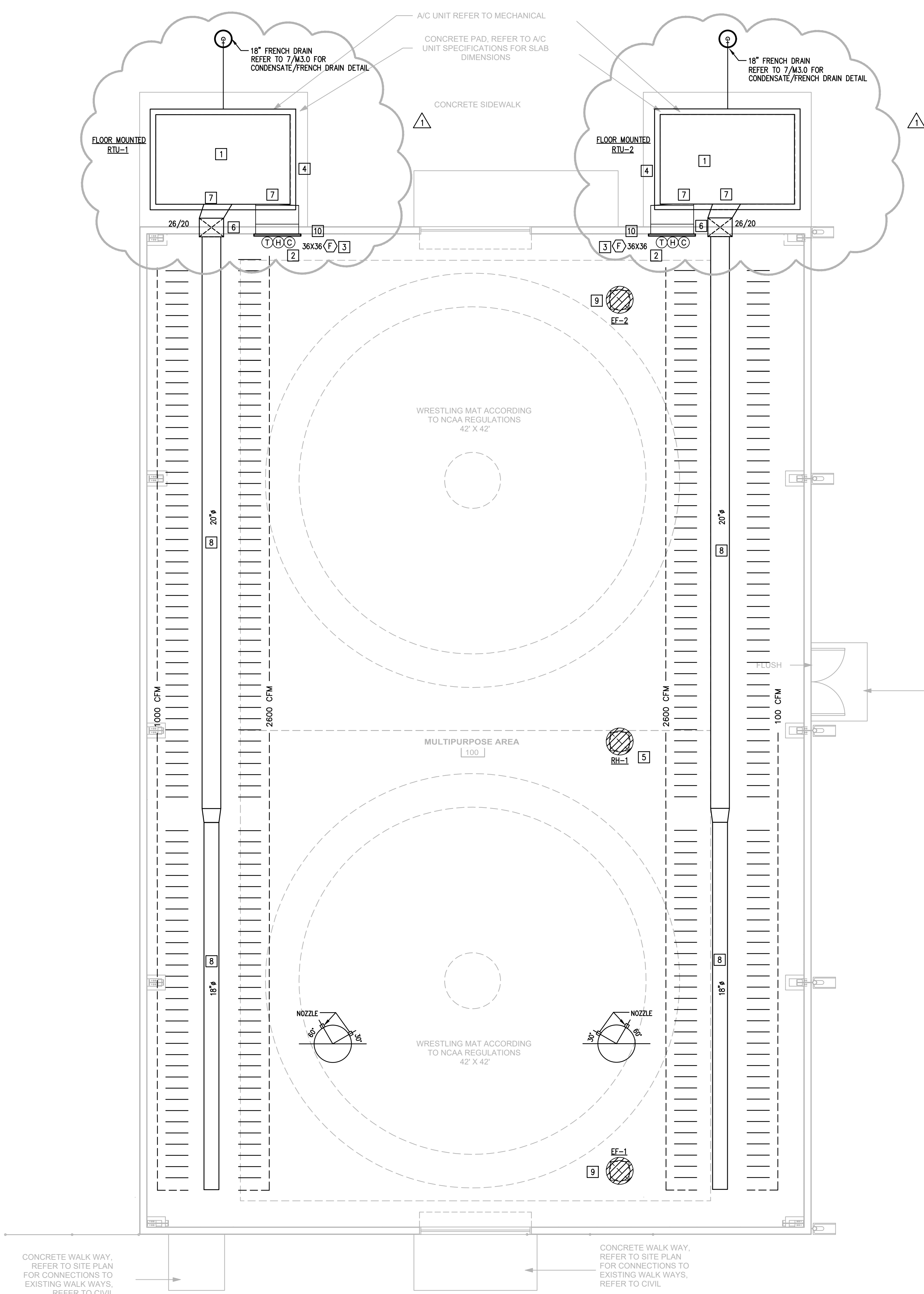


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P: 956.472.5161 www.vme-engineering.com
Texas Registered Engineering Firm - F14031
Project number: 025.25

M1.1



MECHANICAL GENERAL NOTES

- CONTRACTOR SHALL BALANCE EACH SPACE WITH THE CFM SHOWN ON PLAN. NOTE NOT ALL SPACES HAVE SAME CFM SHOWN ON RTU SCHEDULE.
- NEW PIPING AND DUCTWORK SHOWN ON PLAN ARE SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK ROUTING, OFFSET AND RUN PIPING, DUCTWORK INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ANY EXTRA PIPING, DUCTWORK, FITTINGS, INSULATIONS AND OTHER ACCESSORIES IN ORDER TO COMPLETE THE INSTALLATION.
- COORDINATE LOCATIONS ROOF OPENINGS AND SIZES OF WALL OPENINGS WITH ARCHITECT AND STRUCTURE ENGINEERS.
- EQUIPMENT SIZES, DIMENSIONS AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE VENDOR DRAWINGS BEFORE FABRICATION OF DUCTWORK, PIPING.
- DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE AIR STREAM DIMENSIONS. DUCTWORK SHALL BE SHEET METAL.
- CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL HVAC EQUIPMENT PRIOR TO INSTALLATION.

MECHANICAL KEYED NOTES

- RTU ON FLOOR PROVIDE 6" CONCRETE PAD. COORDINATE INSTALLATION WITH SIDE OPENINGS AND REQUIRED CLEARANCES. PROVIDE PROPER SUPPORT. FIELD COORDINATE LOCATION WITH STRUCTURE AND OFFSET AS REQUIRED. PROVIDE FLEXIBLE CONNECTIONS ON SUPPLY AND RETURN DUCT.
- PROVIDE SPACE TEMPERATURE SENSOR, SPACE HUMIDITY SENSOR, CO2 SENSOR. REFER TO SCHEDULE. PROVIDE CONNECTION TO SCHOOLS CONTROL SYSTEM.
- PROVIDE FILTERED RETURN AIR GRILLED AS SCHEDULED ON DOOR/WALL/CEILING. SIZE IS INDICATED ON PLAN.
- PROVIDE 6" CONCRETE PAD FOR ACCU.
- PROVIDE RELIEF HOOD ON ROOF. PROVIDE 14" ROOF CURB. PROVIDE RELIEF DAMPER SET AT 0.05". COORDINATE WITH ROOF SLOPE. PROVIDE DUCT SAME SIZE AS OPENING AND TERMINATE 12" BELOW ROOF INSULATION. PROVIDE WIRE MESH AT END.
- PROVIDE PROTECTIVE SLEEVE TO EXPOSED DUCT. PAINT OR COVER TO BE WHITE.
- PROVIDE TRANSITION FROM RTU OPENING TO DUCT INDICATED ON PLANS. PROVIDE FLEXIBLE CONNECTION.
- RUN DUCT AS HIGH AS POSSIBLE. MINIMUM 12' A.F.F. NOZZLES TO HAVE MORE FLOW TOWARDS MIDDLE OF BUILDING.
- PROVIDE EXHAUST FAN ON ROOF. PROVIDE 14" ROOF CURB. COORDINATE WITH ROOF SLOPE. PROVIDE DUCT SAME SIZE AS EXHAUST OPENING. ROUTE TO 24" BELOW ROOF INSULATION. PROVIDE WIRE MESH AT END. FAN TO BE ON WHEN RESPECTIVE RTU OUTSIDE AIR IS OPEN AND OFF WHEN OUTSIDE AIR DAMPER IS CLOSED. PROVIDE NECESSARY RELAYS OR CONTRACTOR FOR PROPER CONTROL.
- PROVIDE 36"x36" GRILLE. PROVIDE 20" PLENUM. FROM PLENUM PROVIDE TRANSITION TO SAME SIZE AS RTU OPENING.

REFERENCE CODES

- 2018 INTERNATIONAL BUILDING CODE.
- 2018 INTERNATIONAL FIRE CODE.
- 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL PLUMBING CODE
- 2017 NATIONAL ELECTRICAL CODE
- 2015 INTERNATIONAL ENERGY CONSERVATION CODE

1
M1.1

MECHANICAL FLOOR PLAN - TYPICAL BLDG.

Scale: 3/16" = 1'-0"

AIR DEVICE SCHEDULE			
MARK	MFR. & MODEL	TYPE	REMARKS
F	TITUS 350FLF1	SIDEWALL RETURN AIR GRILLE	ALUMINUM CONSTRUCTION WITH FRAME FOR SURFACE MOUNT. 3/4" BLADE SPACING, DOUBLE DEFLECTION WITH FRONT BLADES PARALLEL TO LONG DIMENSION.
NOTES: 1. REFER TO ARCHITECTURAL DRAWINGS FOR FINISH. 2. REFER TO MECHANICAL FLOOR PLAN FOR NECK SIZES.			

EXHAUST FAN SCHEDULE	
MARK	EF-1,2
SERVES	MULTIPURPOSE
TYPE/DRIVE	BELT
CFM	600
EXT. S.P. (IN. W.G.)	0.50
HORSEPOWER	1/4
RPM (MAX.)	1,010
SONES (MAX.)	0.6
VOLTS/PHASE/HERTZ	120/1/60
MANUFACTURER	GREENHECK
MODEL NUMBER	GB-091
NOTES	1.2
NOTES: 1. PROVIDE WITH BACKDRAFT DAMPER. 2. INTERLOCK FAN WITH SWITCH RTU OUTSIDE AIR.	

ROOFTOP UNIT SCHEDULE (ELECTRIC HEAT)		
FAN AND MOTOR DATA	MARK	RTU- 12.5 Ton
	SERVES	AREA
	SUPPLY AIR (CFM)	4000
	OUTSIDE AIR (CFM)	600
	MINIMUM HP (MOTOR)	5
COOLING	DRIVE	VFD
	EXT. SP. (IN W.G.)	0.8
	TOTAL COOLING (MBH)	144.3
	SENSIBLE COOLING (MBH)	105.4
	ENTERING AIR TEMP. DB/WB (F)	78.5/64.8
HEATING	LEAVING AIR TEMP. DB/WB (F)	54.4/52.6
	AMBIENT TEMP. (F)	100
	TOTAL HEATING (KW) / STAGES	18
	ENTERING AIR TEMP. DB (F)	60
	LEAVING AIR TEMP. DB (F)	74.2
ELECTRIC	VOLTS/PHASE/HERTZ	480/3/60
	MCA	45.8
	MOCP	50
GENERAL	MANUFACTURER	JOHNSON CONTROLS
	MODEL	KB150E18R4BDBCL6E1
	NOMINAL TONS	12.5
	I.E.E.R./E.E.R. (ARI)	16.0 IEER/ 12.2 EER
	WEIGHT (LBS)	1,415
	NOTES	1,2,3,5,6,7,8,9,10,11
NOTES:		
1. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.		
2. PROVIDE FACTORY MOUNTED CONDENSER COIL GUARD.		
3. PROVIDE DUAL ENTHALPY ECONOMIZER.		
4. PROVIDE WITH FACTORY INSTALLED HOT GAS REHEAT DEHUMIDIFICATION.		
5. PROVIDE WITH CO2 DEMMAND CONTROL VENTILATION.		
6. PROVIDE WITH FACTORY INSTALLED SIMPLICITY CONTROLLER WITH BACNET INTERFACE.		
7. PROVIDE WITH UNIT POWERED ELECTRIC GFCI OUTLET.		
8. PROVIDE FACTORY SPACE TEMP SENSOR AND HUMIDITY SENSOR.		
9. PROVIDE FACTORY INSTALLED VFD FOR SINGLE ZONE VAV OPERATION.		
10. PROVIDE UNIT WITH SIDE SUPPLY AND RETURN CONNECTIONS. MOUNT UNIT ON MIN 6" CONCRETE PAD WITH NEOPRENE PAD.		
11. CONTACT TEXAS AIRSYSTEMS FOR PRICING AND AVAILABILITY AT (956)566-9540 OR CARLOS.CASTANEDA@TEXASAIRSYSTEMS.COM		



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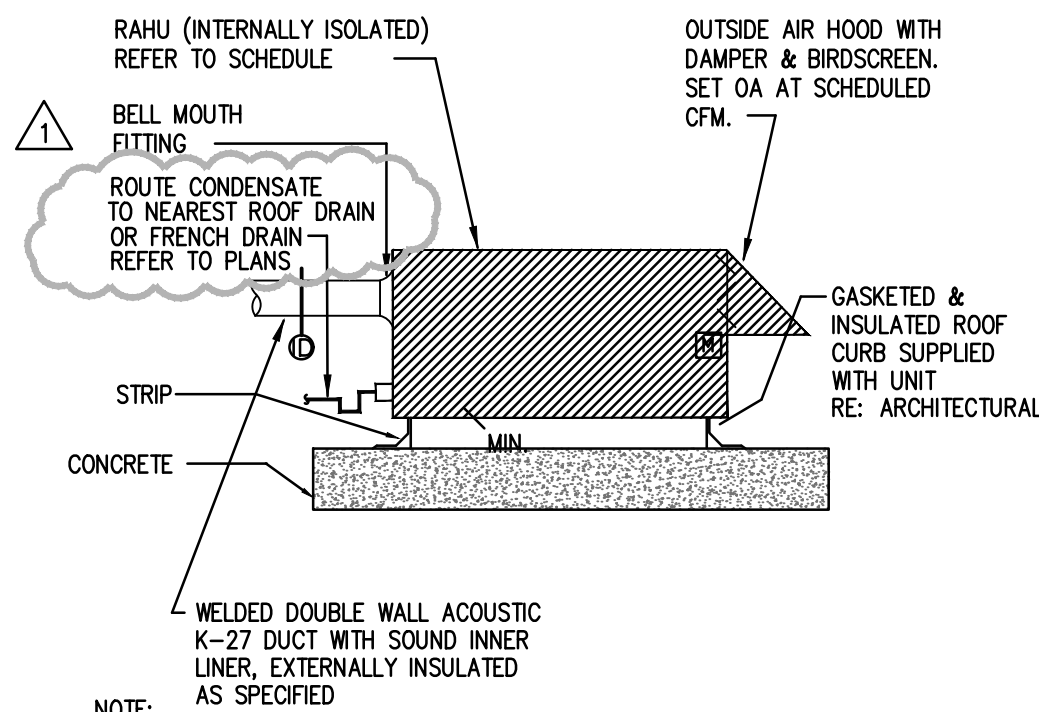
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1	ADDENDUM #2	06-03-2025

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MECHANICAL
SCHEDULES

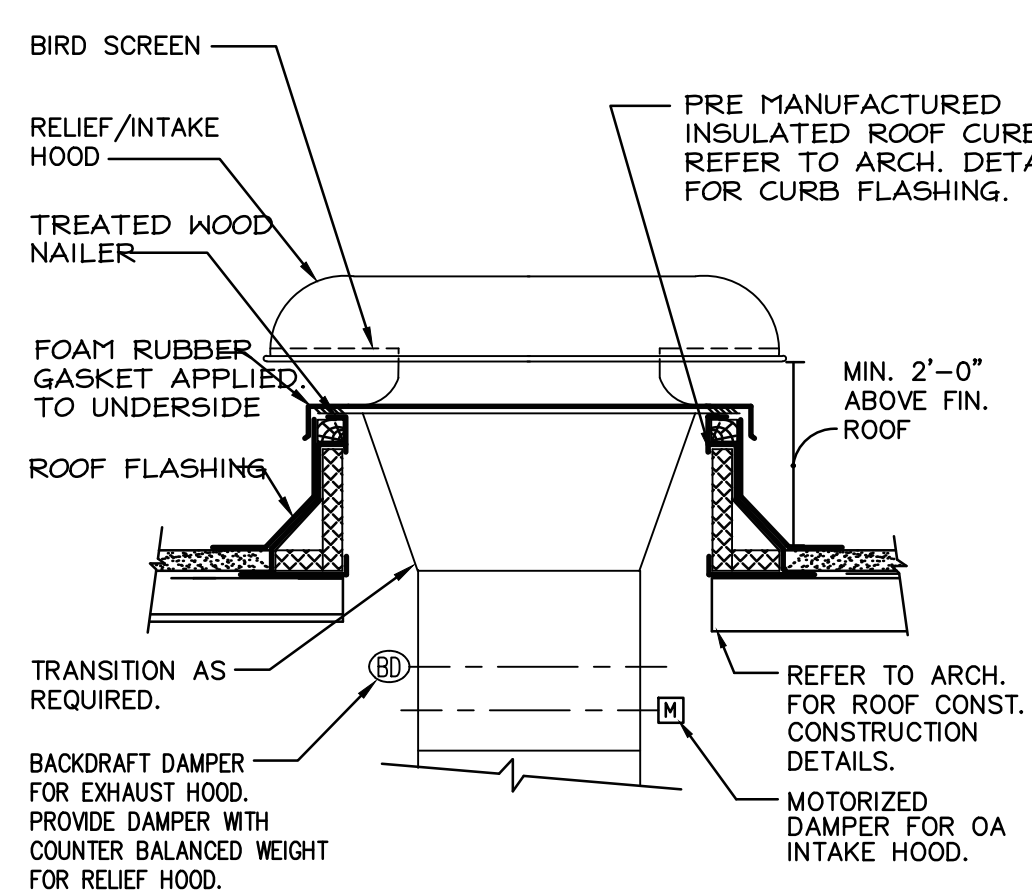
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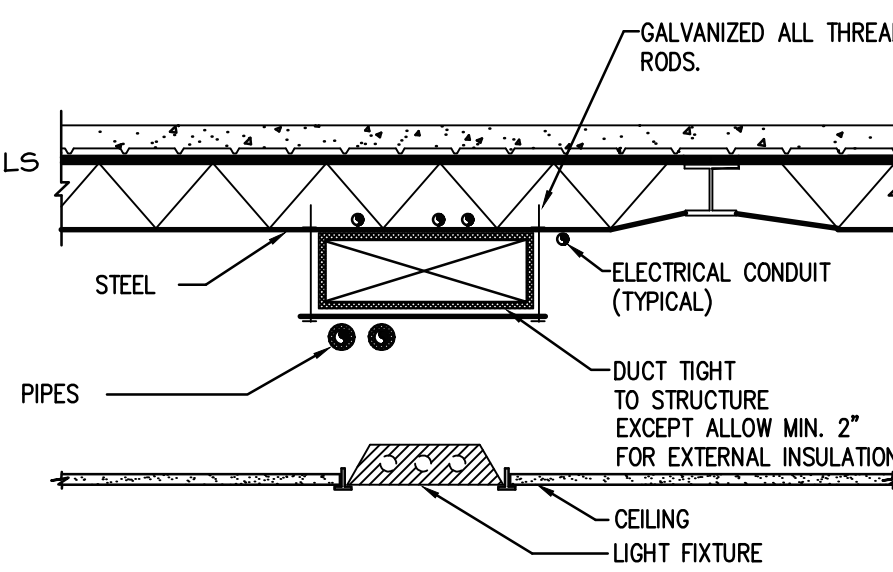


- NOTE:
1. REFER TO ARCH. FOR ROOFING & FLASHING DETAIL.
 2. ROUTE CHS & R HWS & R ACROSS ROOF TO CONNECT TO UNIT COIL. INSTALL CONTROL VALVES INSIDE UNIT VESTIBULE PROVIDED.
 3. ALL CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 GALVANIZED WITH MALLABLE IRON SCREWED FITTINGS.

1 FLOOR MOUNTED RTU DETAIL

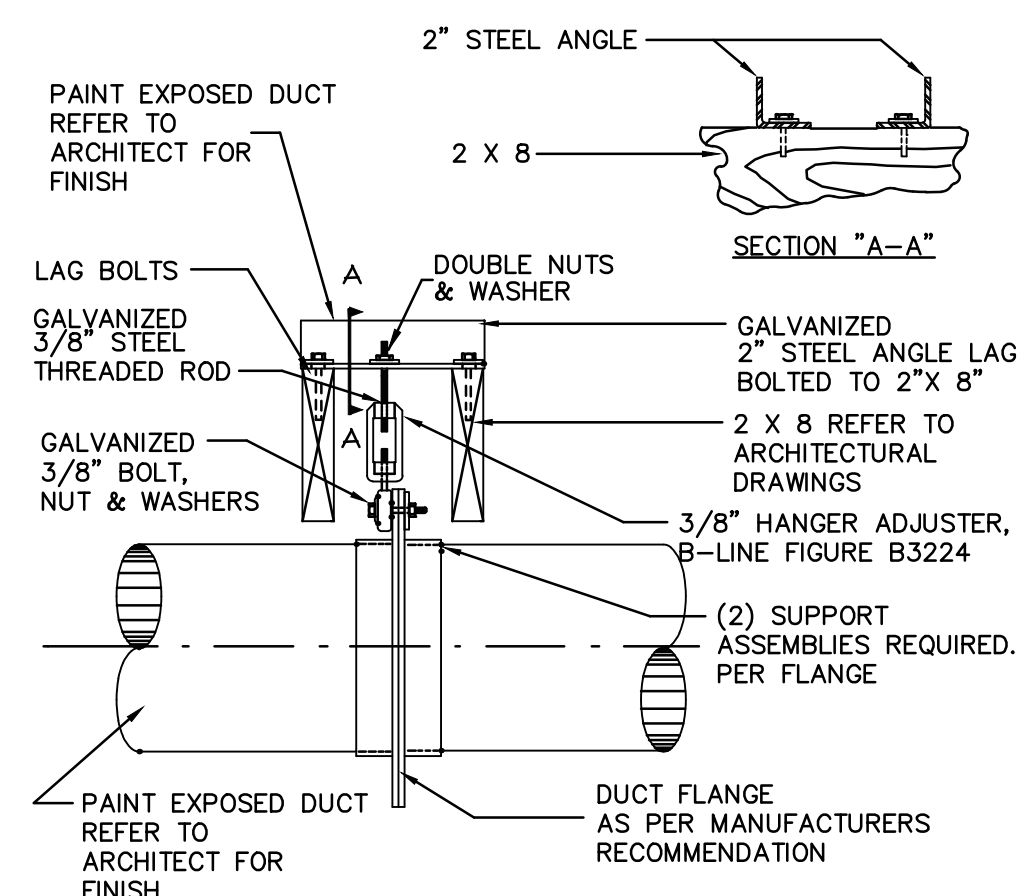


2 OA INTAKE OR EXHAUST RELIEF HOOD

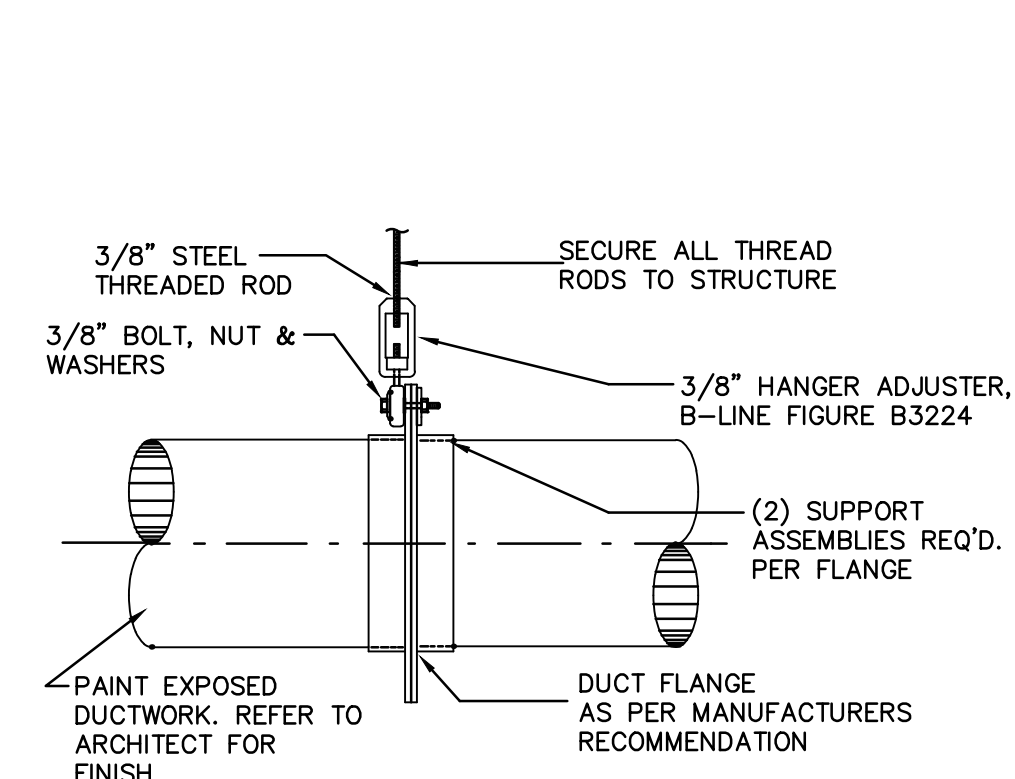


- NOTES:
1. PIPES AND ELECTRICAL CONDUIT CAN BE ROUTED BETWEEN JOISTS OR THROUGH JOIST WEB SPACE AS REQUIRED. 2- DUCT SHALL BE LOCATED AS HIGH AS POSSIBLE.
 2. U.L. DESIGN ASSEMBLY NUMBERS ARE SHOWN ON ARCHITECTURAL PLANS WHEN REQUIRED.
 3. INSTALLATION OF ALL SERVICES MUST BE COORDINATED BY THE CONTRACTOR.

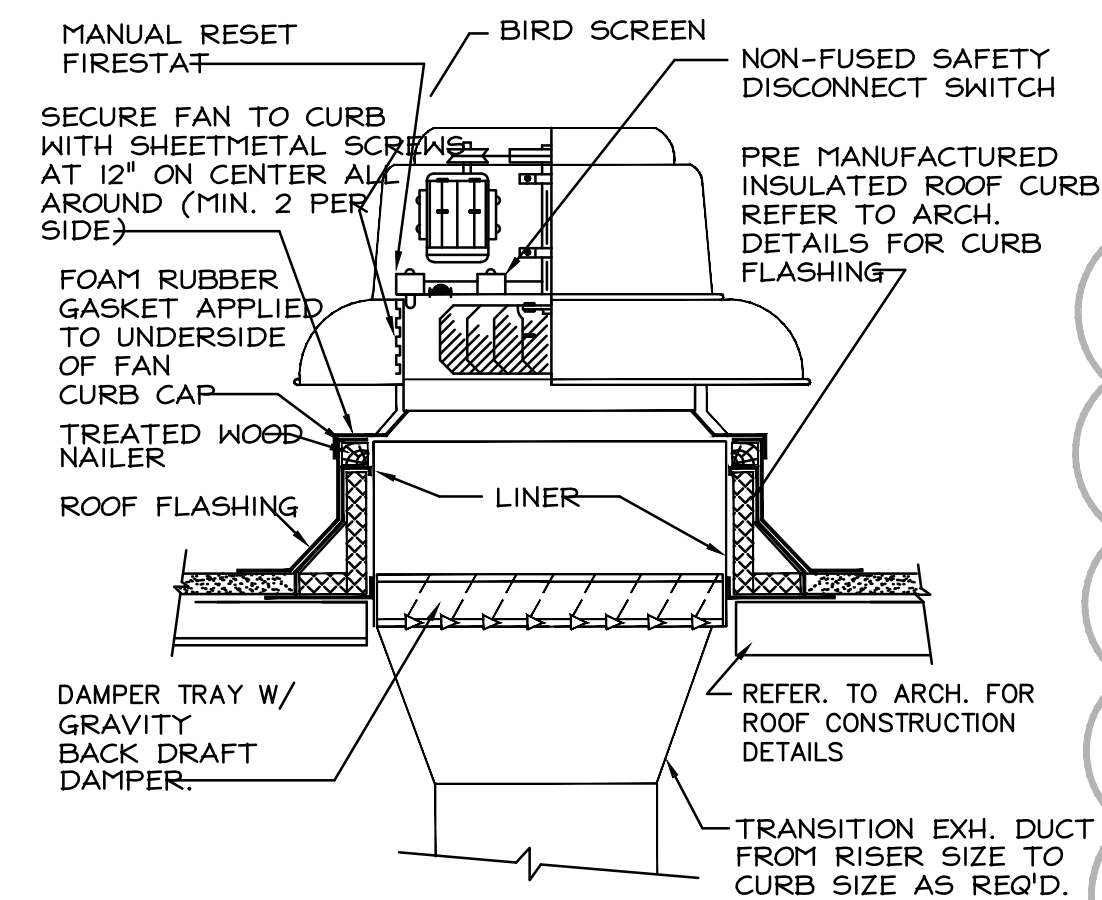
3 TYP. MEP INSTALLATION DETAIL



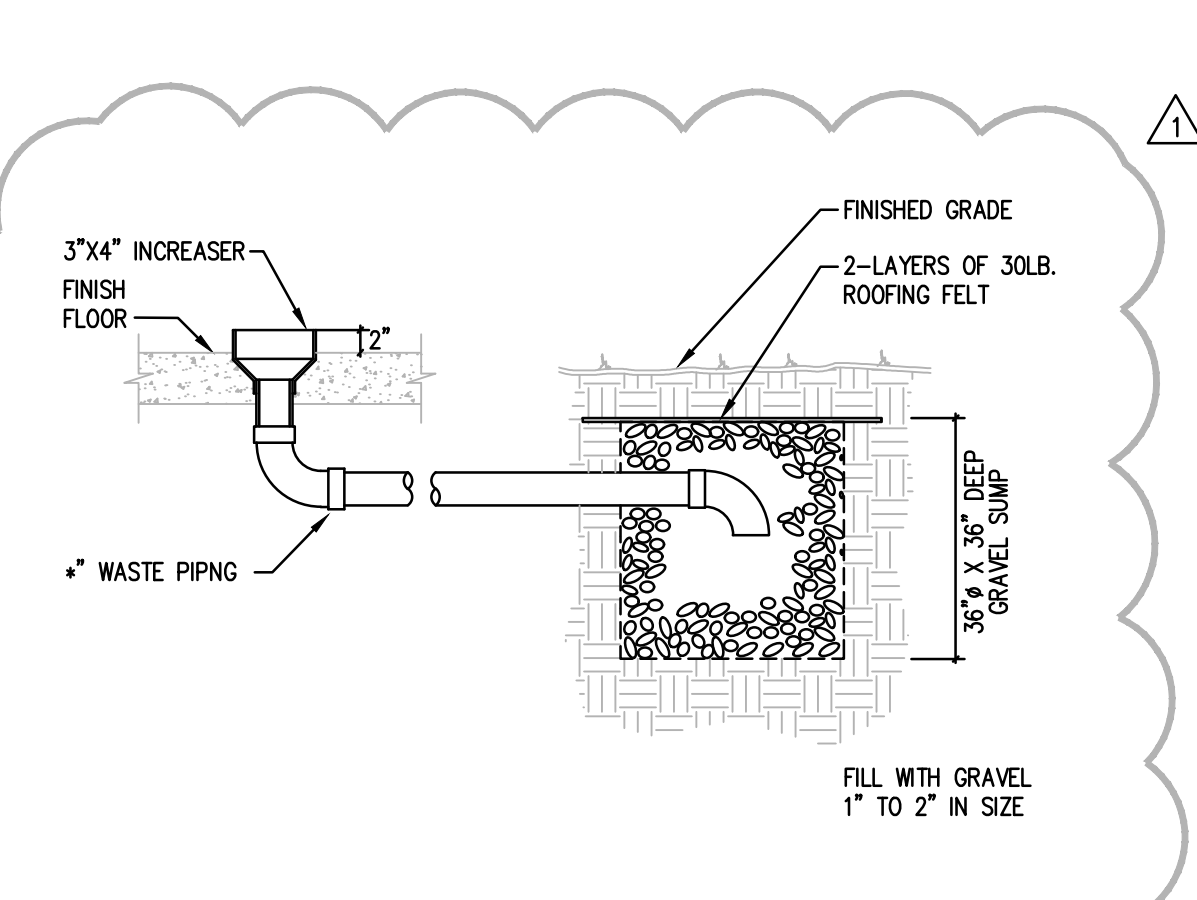
4 OVAL OR ROUND DUCT MOUNTING



5 OVAL OR ROUND DUCT HANGER



6 CENTRIFUGAL ROOF EXHAUST FAN



7 CONDENSATE DRAIN WELL DETAIL



TEXAS ARCHITECT
FIRM No: BR4247
WWW.CG5ARCHITECT.COM

SEAL:

ECISD HIGH
SCHOOL
ATHLETIC
MULTI-USE
BUILDING
25-74

EDINBURG
HIGH SCHOOL

2600 E
Wisconsin Rd,
Edinburg, TX
78542

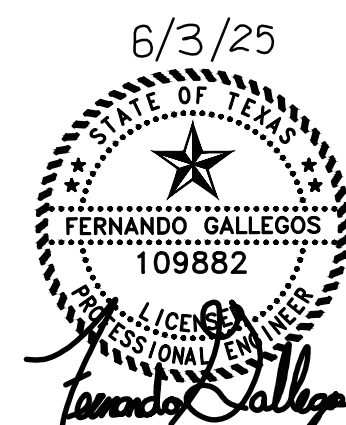
CLIENT:

EDINBURG CISD

REVISION:

No.	Description	Date
1	ADDENDUM #2	06-03-2025

PROJECT #: 25-030102
DRAWN BY: N.M.
CHECKED BY: CG3
DATE: 06/03/25



ISSUED FOR PERMIT

VME
ENGINEERING

1615 Laurel Ct Donna, Texas 78537
P: 956.472.5161 www.vme-engineering.com
Texas Registered Engineering Firm - F14031
Project number: 025.25

**MECHANICAL
DETAILS**

M3.0



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ELECTRICAL
POWER
FLOOR PLAN -
TYPICAL BLDG.

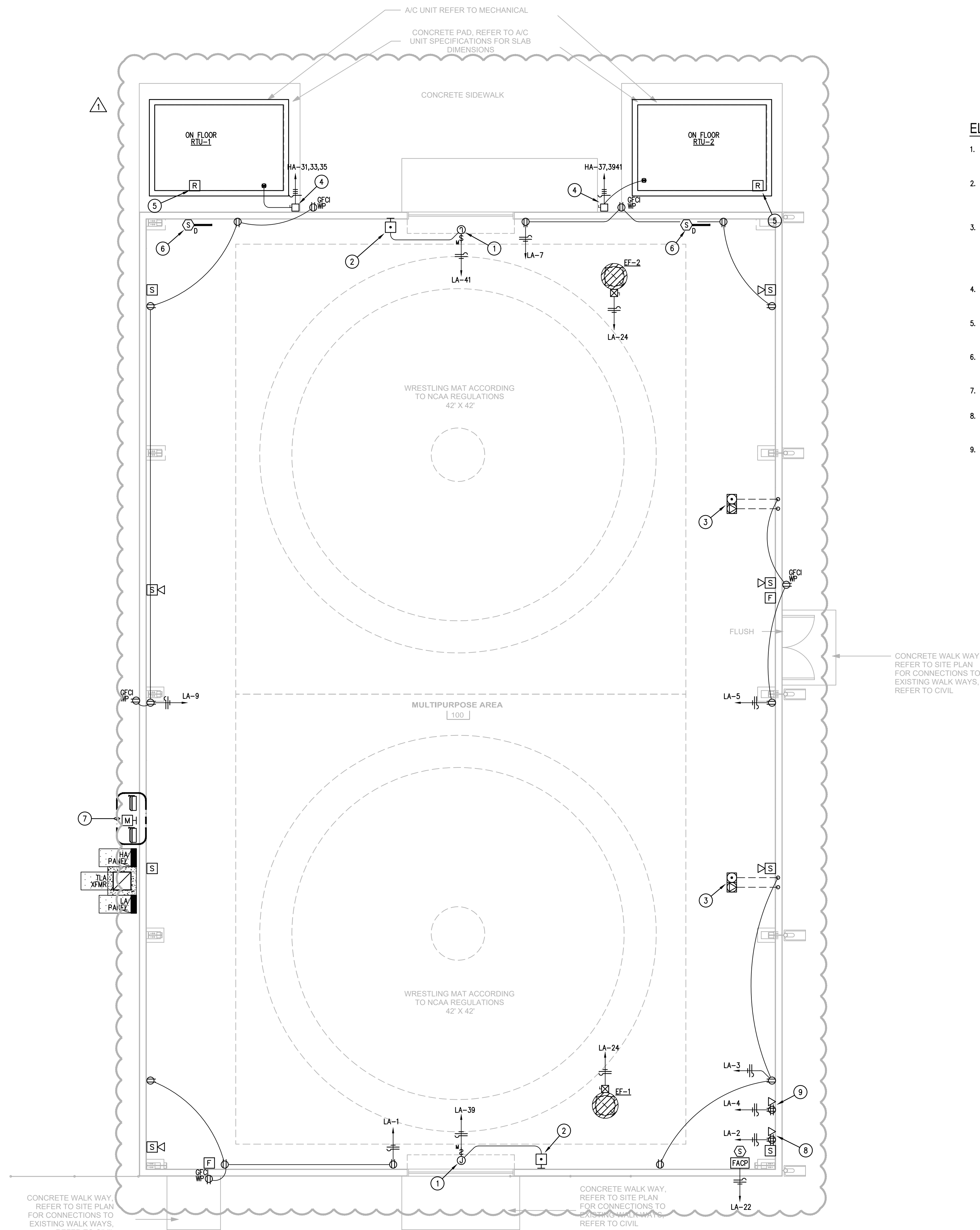


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E1.1



ELECTRICAL KEYED NOTES:

1. PROVIDE 120V POWER FOR MOTORIZED OVERHEAD DOOR. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH DOOR INSTALLER PRIOR TO PLACEMENT. PROVIDE MOTOR RATED SWITCH.
2. PROVIDE BACK BOX FOR UP/DOWN PUSHBUTTON CONTROL STATION FOR MOTORIZED OVERHEAD DOOR. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH DOOR INSTALLER PRIOR TO ROUGH-IN. ROUTE (1) 3/4" CONDUIT WITH CONTROL WIRE TO MOTORIZED DOOR CONTROL BOX.
3. PROVIDE HUBBELL 4-GANG FLOOR BOX #CFBG30RCR WITH (2) # PWFMBPCR20GRYTR DUPLEX RECEPTACLES, #CFBHBZ HUB AND #CFBS1R8CVXX COVER. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH ARCHITECT AND OWNER PRIOR TO PLACEMENT. ROUTE (1) 3/4" UNDERGROUND CONDUIT FOR POWER WIRING AND (1) 2" UNDERGROUND CONDUIT WITH PULL-STRING FOR DATA CABLING TO NEAREST WALL AND UP TO STRUCTURE.
4. PROVIDE 60A/3P/NF/N3R SAFETY DISCONNECT FOR ROOF TOP UNIT. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO PLACEMENT.
5. PROVIDE FIRE ALARM SYSTEM SHUT DOWN RELAY FOR HVAC EQUIPMENT. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO PLACEMENT.
6. PROVIDE DUCT SMOKE DETECTOR FOR HVAC EQUIPMENT SHUT DOWN. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO PLACEMENT.
7. PROPOSED LOCATION FOR SERVICE EQUIPMENT AND POWER COMPANY METERING GEAR. REFER TO ONE LINE DIAGRAM AND SITE PLANS FOR ADDITIONAL INFORMATION.
8. PROVIDE QUAD RECEPTACLE AND DATA OUTLET FOR I.T. RACK. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO PLACEMENT.
9. PROVIDE QUAD RECEPTACLE AND DATA OUTLET FOR SOUND EQUIPMENT. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH AV CONTRACTOR PRIOR TO ROUGH-IN.

ELECTRICAL GENERAL NOTES:

- A. ELECTRICAL CONTRACTOR SHALL GROUP HOMERUNS WITH THREE HOTS (A,B, AND C PHASE), AND #10 NEUTRAL TO PROVIDE MULTI-WIRE BRANCH CIRCUITS. NO MORE THAN 2 MULTI-WIRE HOMERUNS PER CONDUIT. CONTRACTOR SHALL PROVIDE HANDLE TIES MANUFACTURED BY THE SWITCH GEAR SUPPLIER ON ALL MULTI-WIRE CIRCUITS TO MEET THE REQUIREMENTS OF ARTICLE 210.4(B) OF THE 2020 NEC. AT THE CONTRACTOR'S OPTION, TWO AND THREE POLE BREAKERS MAY BE USED.
- B. CONTRACTOR SHALL VERIFY DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL CASEWORK AND MILLWORK ELEVATIONS.
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, OUTLET BOXES, JUNCTION BOXES FOR ALL TECHNOLOGY DEVICE OUTLETS. REFER TO DIVISION 26 SPECIFICATIONS AND TECHNOLOGY DRAWINGS FOR ALL WORK REQUIRED.
- D. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL EXHAUST FAN CONTROLS. PROVIDE A FAN SWITCH IF INDICATED BY MECHANICAL. ALL EXHAUST FANS SHALL BE PROVIDED WITH BUILT-IN DISCONNECT SWITCH.
- E. HVAC AND PLUMBING EQUIPMENT MAY DIFFER FROM LOCATIONS AS SHOWN ON ELECTRICAL DRAWINGS. COORDINATE EXACT LOCATIONS WITH MECHANICAL AND PLUMBING CONTRACTOR.
- F. CONTRACTOR SHALL INDICATE CIRCUIT SERVING EACH RECEPTACLE BY PROVIDING TYPE WRITTEN LABELING LOCATED ON INSIDE FACE OF EACH RECEPTACLE COVER PLATE.
- G. ELECTRICAL CONTRACTOR SHALL ROUTE ELECTRICAL CONDUIT AND WIRING TO ALL ROOF HVAC EQUIPMENT THROUGH ROOF CURBS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- H. CONTRACTOR SHALL ARRANGE PANELBOARDS IN ELECTRICAL ROOM TO PROVIDE CLEARANCE PER NEC 110.26.
- I. MECHANICAL CONTRACTOR SHALL FURNISH INTEGRAL DISCONNECT SWITCH FOR ALL MECHANICAL EQUIPMENT. ELECTRICAL CONNECTIONS SHALL BE PROVIDED BY DIVISION 26.
- J. VAVS WITH DAMPER ONLY SHALL BE CONNECTED BY MECHANICAL CONTRACTOR.
- K. PROVIDE JUNCTION BOX AND POWER FOR ALL HARD WIRED PLUMBING FLUSH VALVES AND SENSOR EQUIPMENT TRANSFORMERS FROM NEAREST 120V/20A CIRCUIT. COORDINATE WITH PLUMBER PRIOR TO ROUGH-IN FOR EXACT LOCATION.
- L. ALL RECEPTACLES LOCATED IN RESTROOMS, JANITOR CLOSETS, MECHANICAL ROOMS, SERVING ELECTRIC DRINKING FOUNTAINS OR VENDING MACHINES, LOCATED WITHIN 6' OF A SINK, LOCATED ABOVE A WET COUNTERTOP OR IN A KITCHEN OR COFFEE BAR SHALL BE GFCI. EACH GFCI PROTECTED RECEPTACLE SHARING THE SAME CIRCUIT SHALL HAVE ITS OWN RE-SET AND TEST BUTTON.

E1.1 ELECTRICAL POWER FLOOR PLAN - TYPICAL BLDG.
Scale: 3/16" = 1'-0"



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25-74**

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EDINBURG CISD

No.	Description	Date
1	ADDENDUM #2	06-03-2025

DATE: 06/03/25

**ELECTRICAL
LIGHTING
FLOOR PLAN -
TYPICAL BLDG.**

6/3/25

STATE OF TEXAS

FERNANDO GALLEGOS

109882

PROFESSIONAL ENGINEER

Fernando Gallegos

ISSUED FOR PERMIT



VME
ENGINEERING

1615 Laurel Ct Donna, Texas 78537
P: 956.472.5161 www.vme-engineering.com
Texas Registered Engineering Firm - F14031
Project number: 025.25

E1.2



1. PROVIDE MOMENTARY CONTACT SWITCH ROUTED TO INTERIOR LIGHTING LIGHTING CONTACTOR.

- A. ALL CEILING MOUNTED OCCUPANCY SENSORS SHALL BE HUBBELL (WATTSTOPPER) #OMD1T-2000 (#DT-300). PROVIDE (#PZ-50 UNIVERSAL VOLTAGE) POWER PACKS AND OVERRIDE SWITCHES AS REQUIRED FOR CONTROL INDICATED.
- B. ALL WALL MOUNTED OCCUPANCY SENSORS SHALL BE HUBBELL (WATTSTOPPER) #HMST1 (DSW-100).
- C. ALL CEILING MOUNTED DEVICES LOCATED IN LAY-IN CEILINGS SHALL BE CENTERED IN THE CEILING TILE.
- D. ALL WALL BOX DIMMERS SHALL BE LUTRON NT SERIES UNLESS NOTED OTHERWISE.
- E. MULTIPLE SWITCHES SHOWN TOGETHER SHALL BE GANGED UNDER A COMMON COVER PLATE.
- F. PROVIDE UN-SWITCHED CIRCUIT TO ALL EXIT SIGNS.
- G. CONTRACTOR SHALL INDICATE LIGHTING CIRCUIT CONTROLLED BY EACH SWITCH BY PROVIDING TYPE WRITTEN LABELING LOCATED ON INSIDE FACE OF EACH SWITCH COVER PLATE.
- H. SPRINKLER CONTRACTOR SHALL COORDINATE SPRINKLER HEAD LOCATIONS WITH CEILING MOUNTED LIGHTING FIXTURES.
- I. FIXTURES DESIGNATED "NL" SHALL BE UNSWITCHED NIGHTLIGHT. FIXTURES SHALL BE CONNECTED TO EMERGENCY CIRCUIT INDICATED.
- J. PROVIDE ALL EMERGENCY LIGHT FIXTURES WITH UNSWITCHED HOT LEG AS DEFINED IN NEC 700.12
- K. ROUTE AN UNSWITCHED HOT LEG TO ALL LIGHT FIXTURES DESIGNATED AS EMERGENCY FIXTURES. HOT LEG SHALL ORIGINATE FROM CIRCUIT SERVING NORMAL LIGHTING FIXTURES IN THAT SPACE. UNSWITCHED HOT LEG SHALL CONNECT TO THE NORMAL POWER SENSING LUG ON THE EMERGENCY BATTERY PACK.
- L. LOWER CASE CHARACTER ADJACENT TO SWITCH AND/OR LIGHTING FIXTURE INDICATES SWITCHING GROUP.



EDINBURG NORTH HIGH SCHOOL

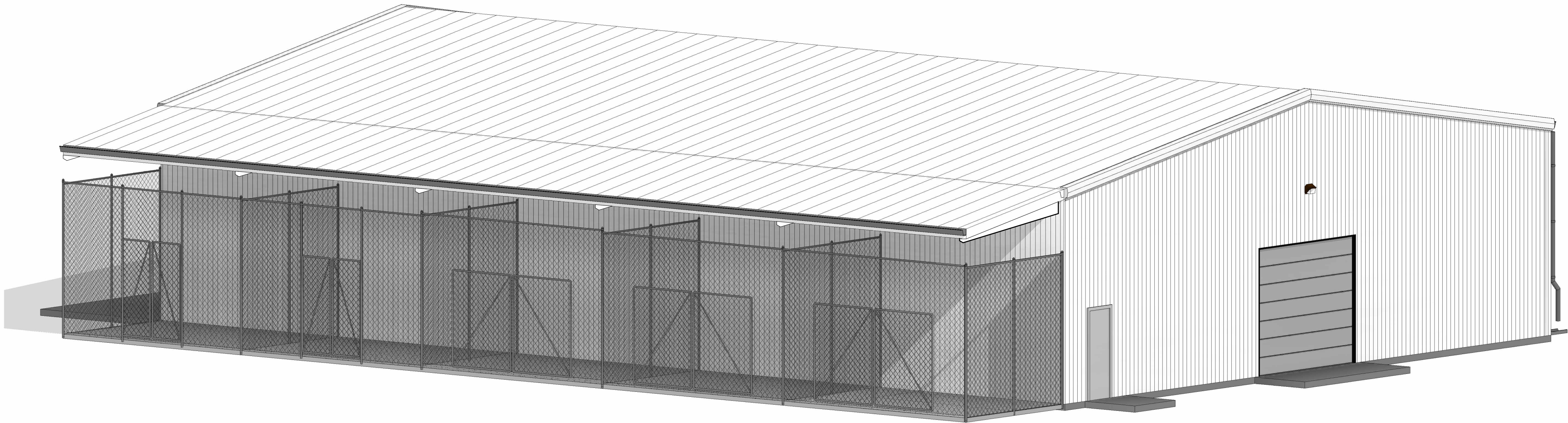


ECISD HIGH SCHOOL ATHLETIC MULTI-USE BUILDING

EDINBURG NORTH HIGH SCHOOL

411 N 8TH AVE, EDINBURG,
TX 78541

ECISD CSP 25-74



TEXAS ARCHITECT
FIRM No: BR4247
WWW.CG5ARCHITECT.COM



ECISD HIGH
SCHOOL
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ECISD CSP 25-74

EDINBURG
NORTH HIGH
SCHOOL

3101 N
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78541

CLIENT:
EDINBURG CISD

REVISION:

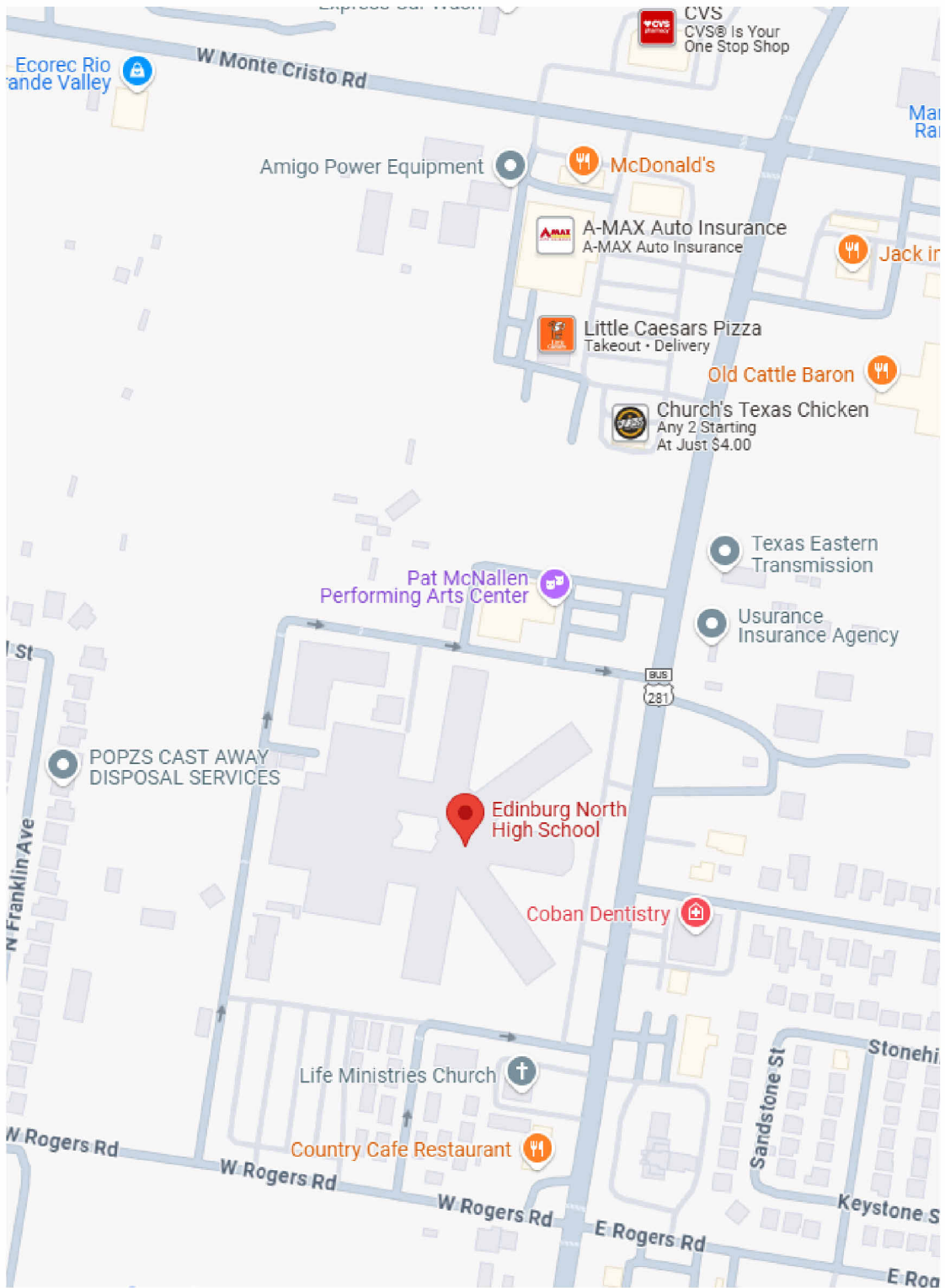
No.	Description	Date
1	AS1 1	5/28/2025

PROJECT #: 25-030102
DRAWN BY: EC
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COVER PAGE

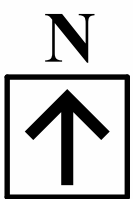
G0.0

VICINITY MAP:



GENERAL INFO:

EDINBURG NORTH HIGH SCHOOL:
3101 N Closner Blvd, Edinburg, TX 78541

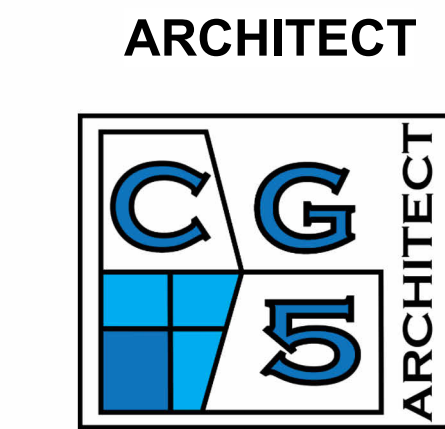


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G1.2	ADA INFORMATION
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S1.0	GENERAL NOTES
S1.1	GENERAL NOTES
S1.2	GENERAL NOTES
S2.0	FOUNDATION PLAN
S3.0	ROOF FRAMING PLAN
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SD1.0	DETAILS

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A4.0	BUILDING SECTIONS BASE BID
A4.0A	BUILDING SECTIONS ALTERNATE
A4.1	WALL SECTIONS AND DETAILS BASE BID

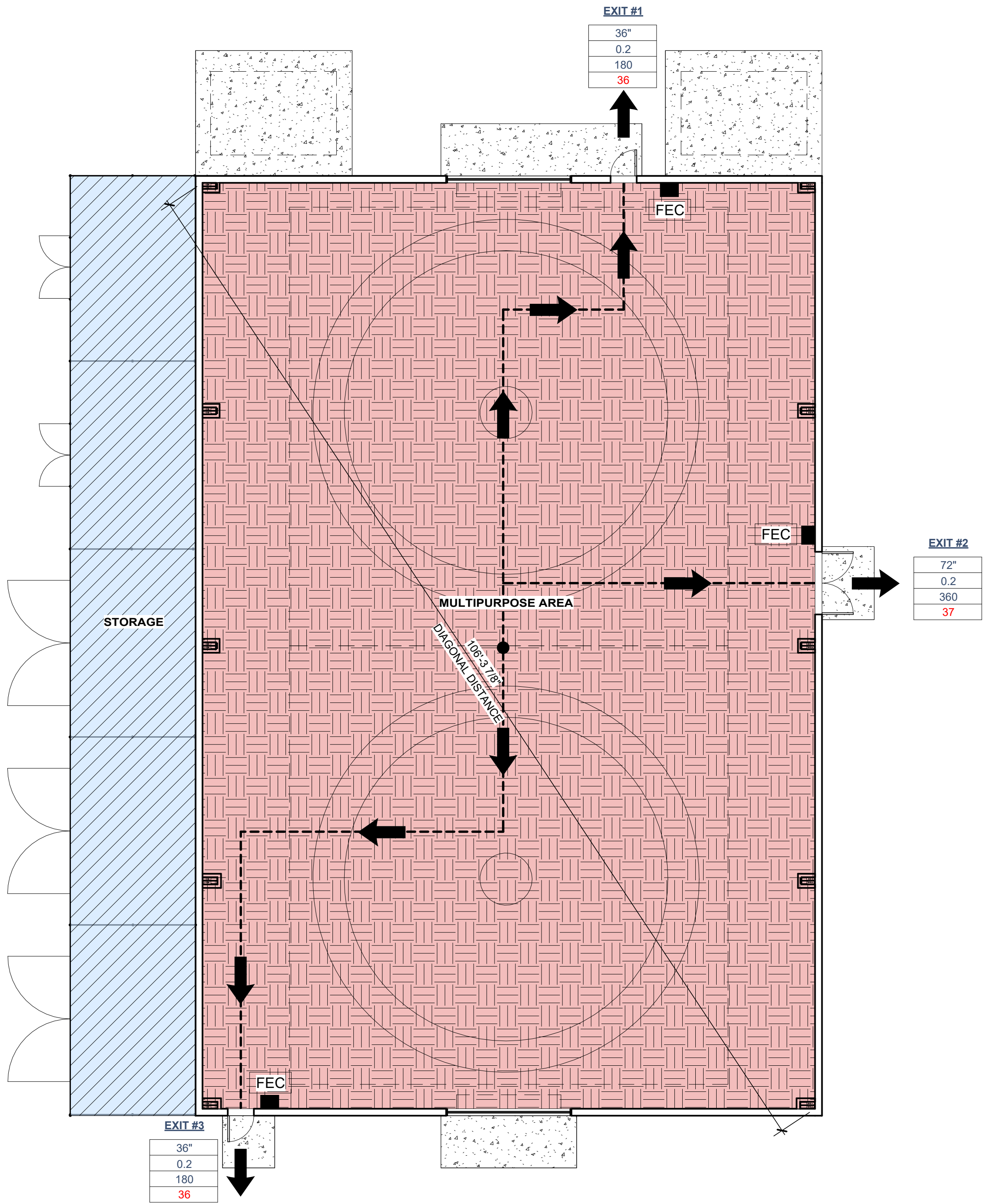
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E3.0	ELECTRICAL SCHEDULES
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E5.0	ELECTRICAL SPECIFICATIONS
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M1.1	MECHANICAL FLOOR PLAN
M2.0	MECHANICAL SCHEDULES
M3.0	MECHANICAL DETAILS

PROJECT INFORMATION		CIVIL	STRUCTURAL	M.E.P.
ADDRESS:	3101 N Closner Blvd, Edinburg, TX 78541	 CIVIL • UTILITY SYSTEMS • PROJECT MANAGEMENT	 ENGINEERING, LLC <small>T&PE FIRM NO. F-5719</small>	
ARCHITECT OF RECORD:	JOSE CARLOS GARCIA III, RA, AIA TBAE: # 22658 TBAE FIRM: BR 4247 CG5 ARCHITECT LLC 1314 E 22ND ST. MISSION, TX, 78572			
OWNER:	EDINBURG CISD			
PROJECT DESCRIPTION: MULTIPURPOSE BUILDINGS		2105 S. JACKSON RD. EDINBURG, TX 78539 (956) 281-1818	701 S 15TH ST. MCALLEN, TX 78501 (956) 687-5560 www.clhengineeringinc.com	1706 MILLER AVE. DONNA, TX 78537 956.472.5161 www.vme-engineering.com



901 LINDBURG AVE
MCALLEN, TX 78502
(956) 239-2438
charlie@cg5architect.com
www.cg5architect.com

ECISD HIGH SCHOOL ATHLETIC MULTI-USE BUILDING



PROJECT INFORMATION		BUILDING ANALYSIS		PARKING REQUIREMENTS		PLUMBING REQUIREMENTS	
<div>LOCATION:3101 N Closner Blvd, Edinburg, TX 78541</div> <div>ARCHITECT OF RECORD:JOSE CARLOS GARCIA III, RA, AIA TBAE: # 22658 TBAE FIRM: BR 4247 CG5 ARCHITECT LLC 1314 E 22ND ST. MISSION, TX, 78572</div> <div>OWNER:ECISD</div> <div>PROJECT DESCRIPTION: NEW ATHLETIC MULTI-USE BUILDING</div>		<div>OCCUPANCY ANALYSIS</div> <div>PROPOSED OCCUPANCY:ASSEMBLY "A-3" CONSTRUCTION TYPE:V B ALLOWABLE BUILDING STORIES:1 PROPOSED STORIES:1 ALLOWABLE BUILDING HEIGHT:40 FT ACTUAL BUILDING HEIGHT:22 FT ALLOWABLE BUILDING AREA:6,000 SF TOTAL BUILDING AREA:5,400 SF</div> <div>EXITING ANALYSIS</div> <div><div>NUMBER OF EXITS:</div><div>PROVIDED3REQUIRED3</div><div>PANIC HARDWARE REQUIRED AT ALL EXITS</div></div>		<div>PARKING REQUIREMENTS: EXISTING PARKING PROVIDED</div>		<div>CITY OF EDINBURG (IPC 2018)</div> <div>EXISTING RESTROOM FIXTURES PROVIDED AT ADJACENT BUILDING. PATH OF TRAVEL NO MORE THAN 500FT MAX.</div> <div>PROPOSED PATH OF TRAVEL: 312 FT</div> <div>EXISTING RESTROOMS TO REMAIN</div> <div><div>REQ'D PROVIDED</div><div>W.C. MEN3W.C. WOMEN3LAVATORY4</div><div>DRINKING FOUNTAIN2SERVICE SINK1</div></div>	
CONSTRUCTION COMPONENTS		APPLICABLE CODES		FIRE SAFTY COMPONENTS			
<div>MATERIALS</div> <div><ul style="list-style-type: none">STEEL STRUCTURAL FRAMEMETAL STUD INTERIOR FRAMINGMETAL EXTERIOR FINISH</div>		<div>2018 INTERNATIONAL BUILDING CODE</div> <div>2018 INTERNATIONAL PLUMBING CODE</div> <div>2018 INTERNATIONAL FUEL GAS CODE</div> <div>2017 NATIONAL ELECTRICAL CODE</div> <div>2018 INTERNATIONAL MECHANICAL CODE</div> <div>2018 INTERNATIONAL FIRE CODE</div>		<div>FIRE SPRINKLER REQUIRED:NO</div> <div>FIRE SPRINKLER PROVIDED:NO</div> <div>FIRE RATING REQUIREMENTS</div> <div><div>PRIMARY STRUCTURAL FRAME:</div><div>NO FIRE RATING REQ'D</div><div>BEARING WALLS EXTERIOR:</div><div>NO FIRE RATING REQ'D</div><div>BEARING WALLS INTERIOR:</div><div>NO FIRE RATING REQ'D</div><div>NONBEARING WALL EXTERIOR:</div><div>NO FIRE RATING REQ'D</div><div>NONBEARING WALL INTERIOR:</div><div>NO FIRE RATING REQ'D</div><div>FLOOR CONSTRUCTION:</div><div>NOT APPLICABLE</div><div>ROOF CONSTRUCTION:</div><div>NO FIRE RATING REQ'D</div></div>			

CODE GENERAL NOTES

1. SEPARATE REVIEW, APPROVAL, AND PERMITS ARE REQUIRED FOR GRADING, ACCESSORY BUILDINGS & STRUCTURES, SIGNS, TRASH ENCLOSURES, BLOCK WALLS, RETAINING WALLS NOT SUPPORTING BUILDINGS, AND DEMOLITION WORK. CONTACT CITY FOR PROCEDURAL INFORMATION.

2. PROJECT INFORMATION AND CODE GENERAL NOTES ARE INTENDED FOR CODE COMPLIANCE SUCH AS OVERALL OCCUPANCY, EGRESS INFORMATION, FIRE SEPARATION AND GENERAL INFORMATION ONLY.

3. A FIRE SYSTEM APPROVED BY THE FIRE MARSHALL SHALL BE PROVIDED. AUDIBLE ALARM DEVICES SHALL BE USED IN ALL AREAS.

4. AN OCCUPANT LOAD SIGN SHALL BE POSTED IN ANY ROOM WITH AN OCCUPANT LOAD OVER 50. THE SIGN IS REQUIRED TO BE POSTED AT OR NEAR THE MAIN EXIT.

5. PROVIDE PANIC HARDWARE FOR GROUP "A" OCCUPANCIES WITH AN OCCUPANT LOAD OF 50 OR MORE.

6. MARKING OF FIRE RATED AND SMOKE STOP PARTITIONS: ALL SMOKE STOP PARTITIONS, HORIZONTAL EXIT ENCLOSURES, AND FIRE WALLS MUST BE PERMANENTLY MARKED ABOVE CEILINGS AS FOLLOWS: "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS". LETTERS SHALL BE 2 1/2" IN HEIGHT AND PAINTED RED. PROVIDE ONE LABEL PER STRUCTURAL BAY.

CODE COIMPLICANCE LEGEND

CODE COMPLIANCE LEGEND

SYMBOL	DESCRIPTION	COMMENTS
➡	EGRESS EXIT PATH	
FEC	FIRE EXTINGUISHER	F.E. Type - 10# ABC, Amerex Model #419 or equal, Installed in Semi-Recessed cabinet

OCCUPANT TRAVEL DISTANCE:

EA: ➡ EXIT ACCESS TRAVEL PATH
MAX: 250'-0" ➡ EXIT MAXIMUM TRAVEL DISTANCE (IBC TABLE 1017.2)

EXIT # TAG:

EXIT # ➡ EXIT NUMBER
72" ➡ PROVIDED EXIT WIDTH
0.2 ➡ OCCUPANT LOAD FACTOR
360 ➡ MAXIMUM OCCUPANTS
87 ➡ ACCUMULATED OCCUPANTS EXITING

BUILDING OCCUPANCY TOTAL:

CALCULATED AREA SF	OCCUPANTS	FUNCTIONS OF SPACE PER OCCUPANCY TABLE
5,202 SF	105	EXERCISE ROOM (50 GROSS)
1,080	4	STORAGE (300 GROSS)
TOTAL OCCUPANTS:		109

VICINITY MAP

PROPOSED ATHLETIC MULTI-USE BUILDING

3101 N Closner Blvd, Edinburg, TX 78541

TRUE NORTH

TEXAS ARCHITECT
FIRM No: BR4247
WWW.CG5ARCHITECT.COM

SEAL:

ECISD HIGH SCHOOL ATHLETIC MULTI-USE BUILDING
ECISD CSP 25-74

EDINBURG NORTH HIGH SCHOOL

CLIENT:
EDINBURG CISD

REVISION:

No.	Description	Date
1	ASI 1	5/28/2025

PROJECT #: 25-030102
DRAWN BY: EC
CHECKED BY: CG3
DATE: 5/28/2025

CODE REVIEW PLAN

G1.3



6-4-2025



REGISTERED ARCHITECT
JOSE C. GARCIA III
22658
STATE OF TEXAS

EDINBURG
NORTH HIGH
SCHOOL

3101 N
Closner Blvd,
Edinburg, TX
78541

ECISD

No.	Description	Date
1	ASI 1	5/28/2025

DATE: 5/28/2025

A0.2

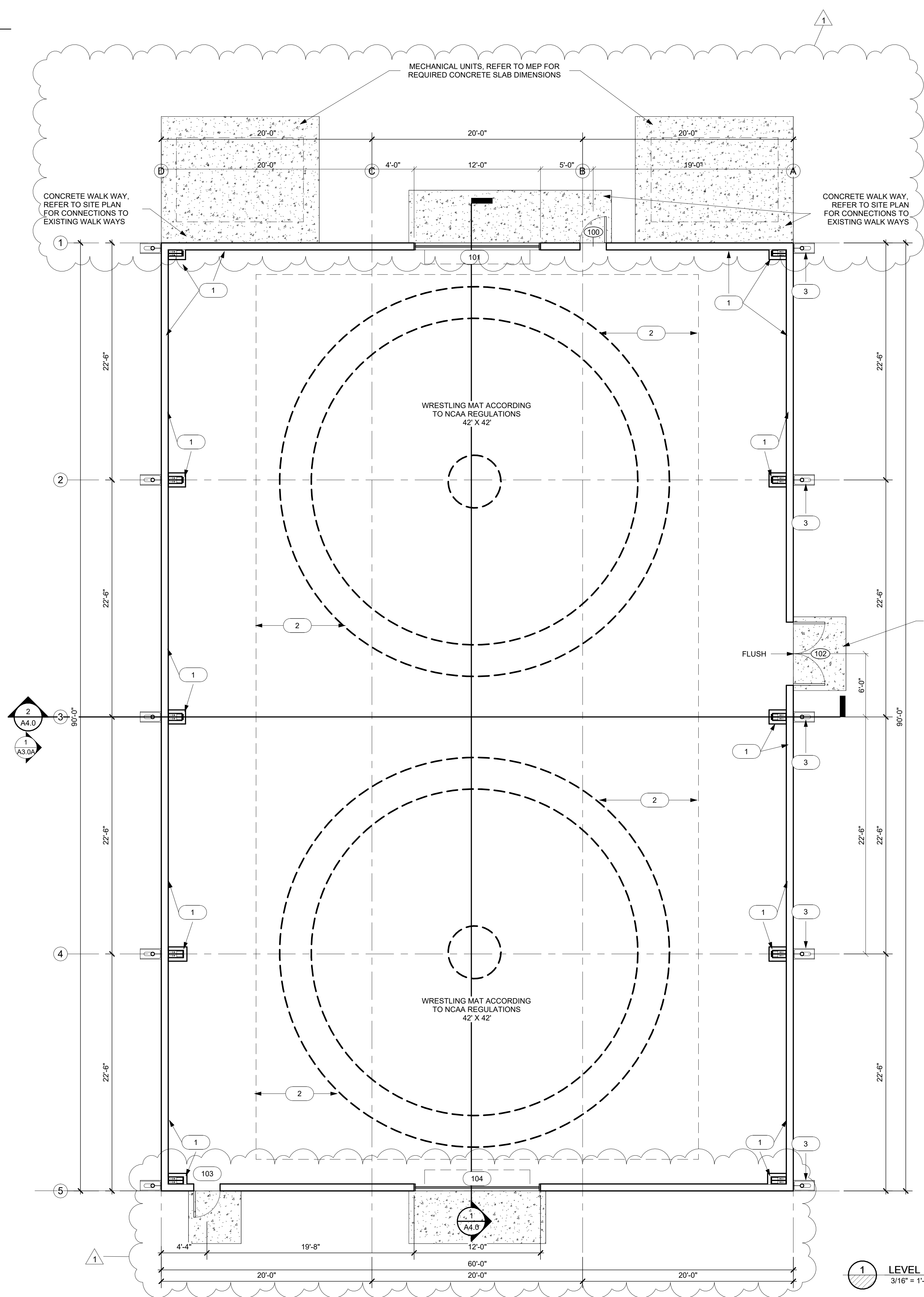
3. ALL SIDEWALKS AND COVERED WALKWAYS SHALL HAVE 1:50 MAXIMUM CROSS SLOPE SIDEWALKS OR COVERED WALKWAYS THAT MUST HAVE SLOPES GREATER THAN 1:20 SHALL HAVE HANDRAILS ON BOTH SIDES. HANDRAILS SHALL BE 34" TO TOP A.F.F. THERE SHALL BE NO ABRUPT CHANGE IN ELEVATION ALONG ACCESSIBLE ROUTES AT SIDEWALKS AND COVERED WALKWAYS.
4. CURB RAMP SLOPE SHALL BE 1:20 MAXIMUM WITH 1:10 FLARED SIDES AND SHALL BE TEXTURED. PAINT WITH A LIGHT REFLECTIVE PAINT. PARALLEL CURB RAMP SLOPE SHALL BE 1:12 MAXIMUM & TEXTURED. PAINT WITH A LIGHT REFLECTIVE PAINT. ALL CURB RAMPS HAVE A LANDING AT TOP & BOTTOM. LANDINGS SHALL HAVE A 1:50 MAXIMUM SLOPE IN ANY DIRECTION.
5. STRIPED ACCESS AISLES AND ACCESSIBLE PARKING SHALL HAVE A MAXIMUM CROSS SLOPE IN ALL DIRECTIONS OF 1:50. ALL GRADING SHALL BE DONE TO DRAIN WATER AWAY FROM BUILDINGS.
6. ALL EXTERIOR SLOPES SHALL HAVE A 1:50 MAXIMUM SLOPE AND SHALL HAVE NO DROPS AT DOORS NOR AT CONNECTION SIDEWALKS.
7. REFER TO CIVIL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR CONTRACTING ARCHITECT IN CASE OF DISCREPANCIES AND COORDINATING WITH CIVIL ENGINEER PRIOR TO PROCEEDING.
8. ALL EXTERIOR DOORS SHALL HAVE A LEVEL AREA IN FRONT OF THE DOORS WITH A 1:50 MAXIMUM SLOPE IN ALL DIRECTIONS. THE AREA SHALL BE A MINIMUM OF 5 FT. IN THE DIRECTIONS OF TRAVEL BY THE WIDTH OF THE SIDEWALK.



2 ENLARGE SITE PLAN
3/64" = 1'-0"

EDINBURG NORTH HIGH SCHOOL

1" = 300'-0"



KEY NOTES:

1

3 5/8" METAL STUD FURRING WALL WITH 1/2" OSB BOARD OR EQUAL PLYWOOD SHEATHING TO 8'-0" AFF TYPICAL, PAINTED, PROVIDE CAP AT TOP OF FURRING WALL

2

WRESTLING MAT ACCORDING TO NCAA REGULATIONS 42' X 42', BY OWNER

3

CONCRETE SPLASH BLOCKS

ROOM SCHEDULE					
ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
MULTIPURPOSE AREA STORAGE	F-1	B-1	W-1	C-1	

ROOM FINISH SCHEDULE: BASIS OF DESIGN OR EQUAL

FLOOR: F-1 SEALED CONCRETE FLOOR, TRANSPARENT

BASE: B-1 4" RUBBER BASE, ROPPE 700 SERIES 4" THERMOPLASTIC RUBBER WALL COVE BASE

WALL: W-1 OSB BOARD OR EQUAL PLYWOOD SHEATHING TO 8'-0" OSB PAINTED, FINAL COLOR SELECTED BY OWNER

CEILING: C-1 OPEN STRUCTURE, ONLY STRUCTURAL FRAME PAINTED

- FLOOR PLAN GENERAL NOTES**
1.

THE CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS, SPECIFICATIONS, DIMENSIONS AND SITE CONDITIONS PRIOR TO BEGINNING ANY WORK AND REPORT ANY INCONSISTENCIES OR DISCREPANCIES TO THE ARCHITECT IMMEDIATELY FOR RESOLUTION DURING THE Q&A PERIOD OF THE BID PHASE, AND AT THE LATEST BEFORE BEGINNING CONSTRUCTION.
2.

THE DRAWINGS AND SPECIFICATIONS ARE CORRELATIVE AND HAVE EQUAL AUTHORITY AND PRIORITY. BASE DISAGREEMENTS IN THEMSELVES OR IN EACH OTHER ON THE MOST EXPENSIVE COMBINATION OF QUANTITY AND QUALITY OF WORK INDICATED.
3.

ITEMS SPECIFICALLY MENTIONED IN THE SPECIFICATIONS BUT NOT SHOWN ON THE DRAWINGS OR ITEMS SHOWN ON THE DRAWINGS BUT NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS SHALL BE PROVIDED AS IF THEY WERE BOTH SPECIFIED AND SHOWN IN THE DRAWINGS.
4.

ALL MINOR DETAILS OF WORK WHICH ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS, AS WELL AS SUCH ITEMS WHICH ARE NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS, BUT ARE NECESSARY FOR THE PROPER COMPLETION OF THE WORK, SHALL BE CONSIDERED AS INCIDENTAL AND AS BEING PART OF AND INCLUDED WITH THE WORK FOR WHICH PRICES ARE GIVEN IN THE PROPOSAL AND NO EXTRA COMPENSATION SHALL BE ALLOWED FOR THE PERFORMANCE THEREOF.
5.

ALL FLOOR PLAN DIMENSIONS ARE TO FINISH FACE OF WALL. DO NOT SCALE DRAWINGS. WHERE DIMENSIONS ARE NOTED "AS CLEAR" DIMENSION SHALL BE FROM FINISH TO FINISH.
6.

CASEWORK, PLUMBING FIXTURES, TOILET PARTITIONS, AND OTHER FIXTURES AND EQUIPMENT ARE DIMENSIONED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE.
7.

ALL SPACES WITH FLOOR DRAINS - SLOPE NOT TO EXCEED 2% (ONE - IN - FIFTY) IN ANY DIRECTION. COORDINATE ALL FLOOR DRAINS WITH PLUMBING DRAWINGS PRIOR TO ANY ROUGH-IN AND CONCRETE PLACEMENT.
8.

DIMENSIONS NOTED AS "FIELD VERIFY" SHALL BE CHECKED AT THE SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT BEFORE INCORPORATING INTO THE WORK.
9.

DIMENSIONS NOTED AS "CLEAR" REQUIRE SPECIFIC COORDINATION BETWEEN DISCIPLINES AND/OR MANUFACTURERS.
10.

ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE. ALL FLOOR FINISH ELEVATION CHANGES SHALL HAVE THRESHOLDS OR REDUCERS STRIPS AS SPECIFIED.
11.

OPEN EXTERIOR JOINTS AROUND DOOR AND WINDOW FRAMES, BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF, BETWEEN WALL PANELS, AT WALL AND ROOF PENETRATIONS AND ANY OTHER BUILDING ENVELOPE PENETRATION SHALL BE SEALED, CAULKED AND/OR WEATHER-STRIPPED TO PREVENT OR LIMIT AIR, MOISTURE AND VAPOR PENETRATION. USE ONLY SPECIFIED MANUFACTURER APPROVED MATERIALS AS DIRECTED BY MATERIAL MANUFACTURERS.
12.

EFFECTIVELY ISOLATE ALL DISSIMILAR METALS/ MATERIALS TO PREVENT CORROSION BY ELECTROLYTIC ACTION OR OTHER CAUSES AS RECOMMENDED BY THE RESPECTIVE PRODUCT MANUFACTURER OR SUPPLIER.
13.

PROPERLY TERMINATE ALL MATERIALS WITH APPROPRIATE TRIM, FLASHING, SEALANT, EXPANSION CONTROL, ETC. AS INDICATED ON DRAWINGS OR AS REQUIRED FOR PROPER INSTALLATION AS ACCEPTED BY STANDARD BUILDING PRACTICE.
14.

COORDINATE AND PROVIDE APPROPRIATE BLOCKING IN WALLS AS REQUIRED TO SECURE ALL EQUIPMENT, HANDRAILS, CASEWORK, ETC. AS REQUIRED. WOOD BLOCKING SHALL MEET CODE REQUIREMENTS.
15.

REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES AND HEIGHTS. COORDINATE ALL LIGHT FIXTURES, MECHANICAL DIFFUSERS, NOTIFICATION DEVICES, ETC. WITH M.E.P. DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR RESOLUTION.
16.

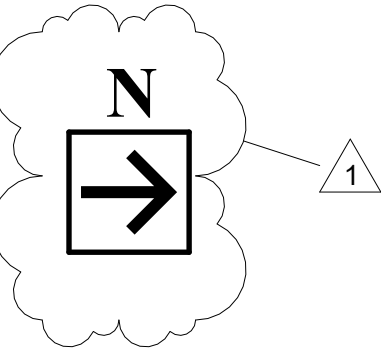
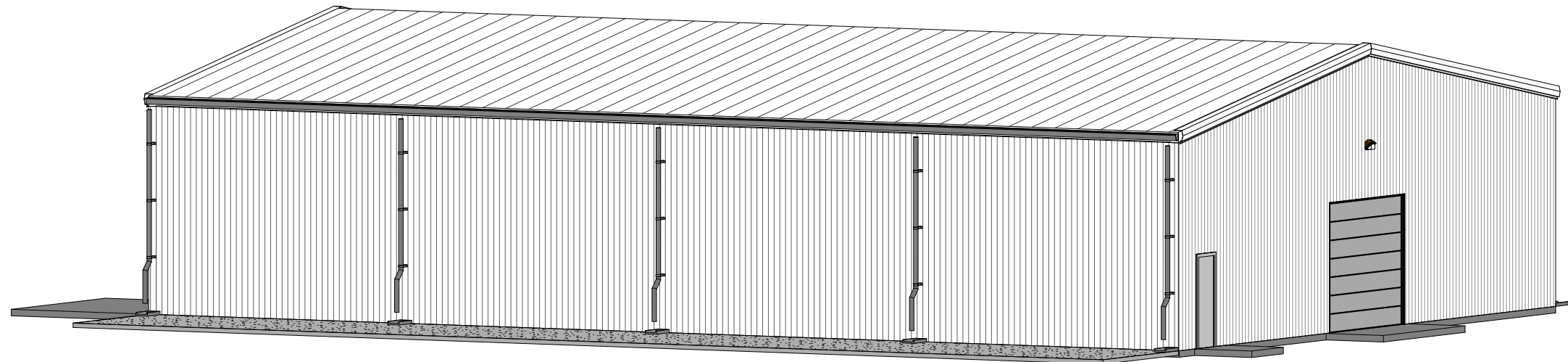
COORDINATE HOUSEKEEPING PAD DIMENSIONS AND LOCATIONS WITH EQUIPMENT TO BE INSTALLED. ALL HOUSEKEEPING PADS SHALL BE A MINIMUM OF 4" TALL REINF. W/ #3 BARS AT 15" O.C.B.W. AND PROVIDE 1" (45- DEGREE) CHAMFERED EDGES UNLESS NOTED OTHERWISE.
17.

ALL INTERIOR DOORS IN STUD WALL ASSEMBLIES SHALL BE SET A MINIMUM OF 4" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS FOR RESOLUTION.
18.

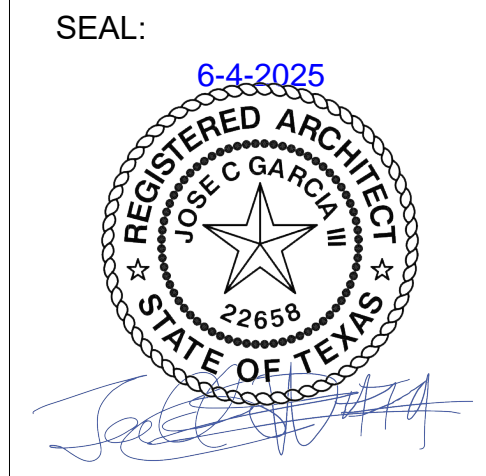
SET ALL EXTERIOR DOOR THRESHOLDS IN FULL BED OF MANUFACTURER APPROVED SEALANT IN ACCORDANCE WITH MANUFACTURER INSTALLATION INSTRUCTIONS.
19.

REFER TO CODES AND CONVENTIONS SHEET FOR MOUNTING HEIGHTS OF FIXTURES AND EQUIPMENT AS SCHEDULED. REFER TO THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS, ARCHITECTURAL BARRIERS DIVISION TEXAS ACCESSIBILITY STANDARDS FOR ALL MOUNTING HEIGHTS NOT LISTED AND FOR FURTHER CLARIFICATION AS NEEDED.
20.

PROVIDE ROOM SIGNAGE AND DIRECTIONAL SIGNAGE AS PART OF BASE BID. REFER TO THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS, ARCHITECTURAL BARRIERS DIVISION TEXAS ACCESSIBILITY STANDARDS FOR ALL MOUNTING HEIGHTS NOT LISTED AND FOR FURTHER CLARIFICATION AS NEEDED.



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ECISD HIGH SCHOOL
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EDINBURG
NORTH HIGH
SCHOOL

3101 N
Closner Blvd,
Edinburg, TX
78541

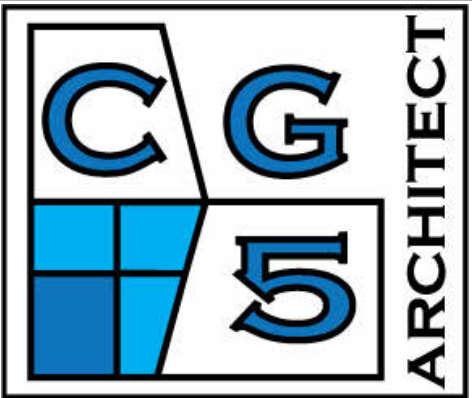
CLIENT:
EDINBURG CISD

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No.	Description	Date
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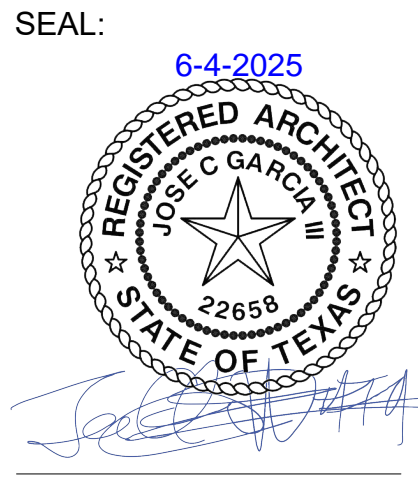
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CHECKED BY: CG3
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FLOOR PLAN
BASE BID

A2.0



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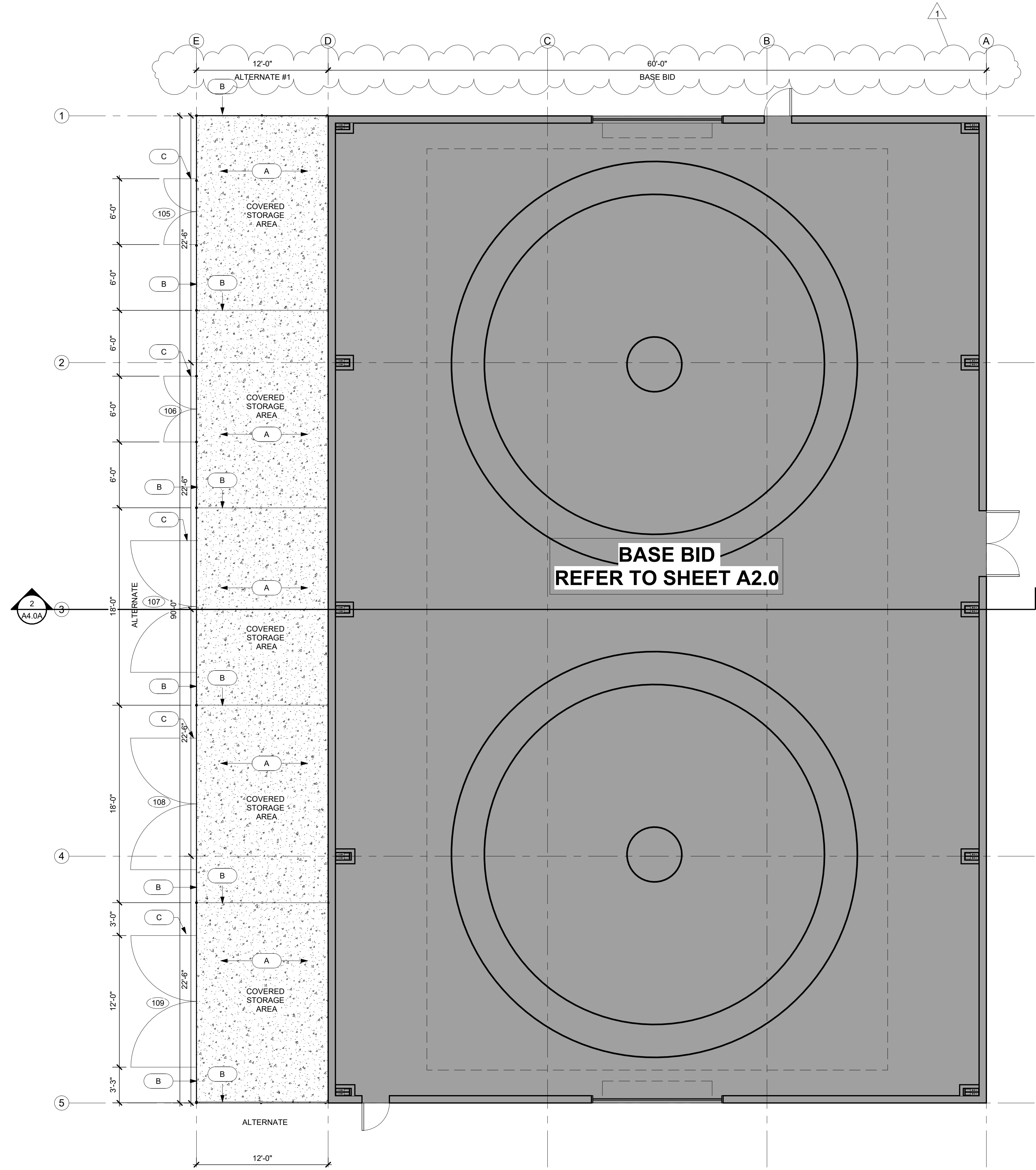
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FLOOR PLAN
ALTERNATE

A2.0A



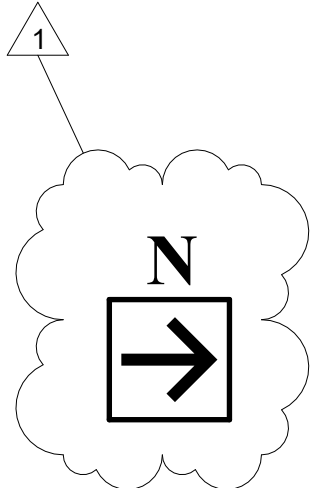
KEY NOTES:

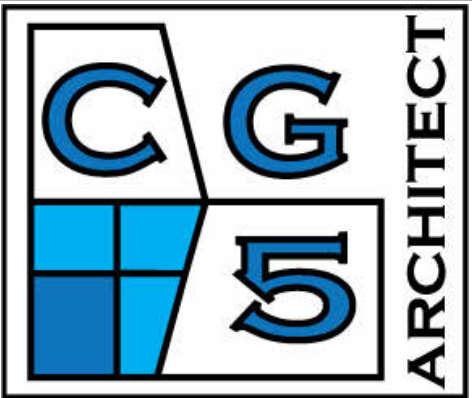
- A CONCRETE FLAT WORK FLOOR AT CANOPY EXTENSION (ALTERNATE #2)
- B 12' HIGH CHAIN LINK FENCE AT CANOPY EXTENSION (ALTERNATE #3)
- C 8' HIGH CHAIN LINK DOUBLE SWING GATE AT CANOPY EXTENSION (ALTERNATE #3) REFER TO SHEET A7.0

FLOOR PLAN GENERAL NOTES

- THE CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS, SPECIFICATIONS, DIMENSIONS AND SITE CONDITIONS PRIOR TO BEGINNING ANY WORK AND REPORT ANY INCONSISTENCIES OR DISCREPANCIES TO THE ARCHITECT IMMEDIATELY FOR RESOLUTION DURING THE Q&A PERIOD OF THE BID PHASE, AND AT THE LATEST BEFORE BEGINNING CONSTRUCTION.
- THE DRAWINGS AND SPECIFICATIONS ARE CORRELATIVE AND HAVE EQUAL AUTHORITY AND PRIORITY. BASE DISAGREEMENTS IN THEMSELVES OR IN EACH OTHER ON THE MOST EXPENSIVE COMBINATION OF QUANTITY AND QUALITY OF WORK INDICATED.
- ITEMS SPECIFICALLY MENTIONED IN THE SPECIFICATIONS BUT NOT SHOWN ON THE DRAWINGS OR ITEMS SHOWN ON THE DRAWINGS BUT NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS SHALL BE PROVIDED AS IF THEY WERE BOTH SPECIFIED AND SHOWN IN THE DRAWINGS.
- ALL MINOR DETAILS OF WORK WHICH ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS, AS WELL AS SUCH ITEMS WHICH ARE NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS, BUT ARE NECESSARY FOR THE PROPER COMPLETION OF THE WORK, SHALL BE CONSIDERED AS INCIDENTAL AND AS BEING PART OF AND INCLUDED WITH THE WORK FOR WHICH PRICES ARE GIVEN IN THE PROPOSAL AND NO EXTRA COMPENSATION SHALL BE ALLOWED FOR THE PERFORMANCE THEREOF.
- ALL FLOOR PLAN DIMENSIONS ARE TO FINISH FACE OF WALL. DO NOT SCALE DRAWINGS. WHERE DIMENSIONS ARE NOTED "AS CLEAR" DIMENSION SHALL BE FROM FINISH TO FINISH.
- CASEWORK, PLUMBING FIXTURES, TOILET PARTITIONS, AND OTHER FIXTURES AND EQUIPMENT ARE DIMENSIONED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE.
- ALL SPACES WITH FLOOR DRAINS - SLOPE NOT TO EXCEED 2% (ONE - IN - FIFTY) IN ANY DIRECTION. COORDINATE ALL FLOOR DRAINS WITH PLUMBING DRAWINGS PRIOR TO ANY ROUGH-IN AND CONCRETE PLACEMENT.
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- OPEN EXTERIOR JOINTS AROUND DOOR AND WINDOW FRAMES, BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF, BETWEEN WALL PANELS, AT WALL AND ROOF PENETRATIONS AND ANY OTHER BUILDING ENVELOPE PENETRATION SHALL BE SEALED, CAULKED AND/OR WEATHER-STRIPPED TO PREVENT OR LIMIT AIR, MOISTURE AND VAPOR PENETRATION. USE ONLY SPECIFIED MANUFACTURER APPROVED MATERIALS AS DIRECTED BY MATERIAL MANUFACTURERS.
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- REFER TO CODES AND CONVENTIONS SHEET FOR MOUNTING HEIGHTS OF FIXTURES AND EQUIPMENT AS SCHEDULED. REFER TO THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS, ARCHITECTURAL BARRIERS DIVISION TEXAS ACCESSIBILITY STANDARDS FOR ALL MOUNTING HEIGHTS NOT LISTED AND FOR FURTHER CLARIFICATION AS NEEDED.
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LEVEL 1 FLOOR PLAN
ALTERNATE
3/16" = 1'-0"





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Edinburg, TX
78541

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1	ASI 1	5/28/2025

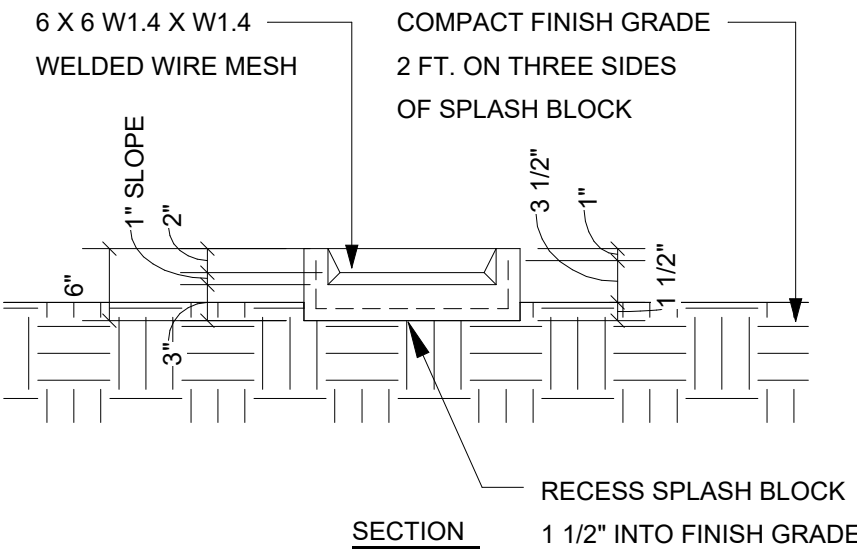
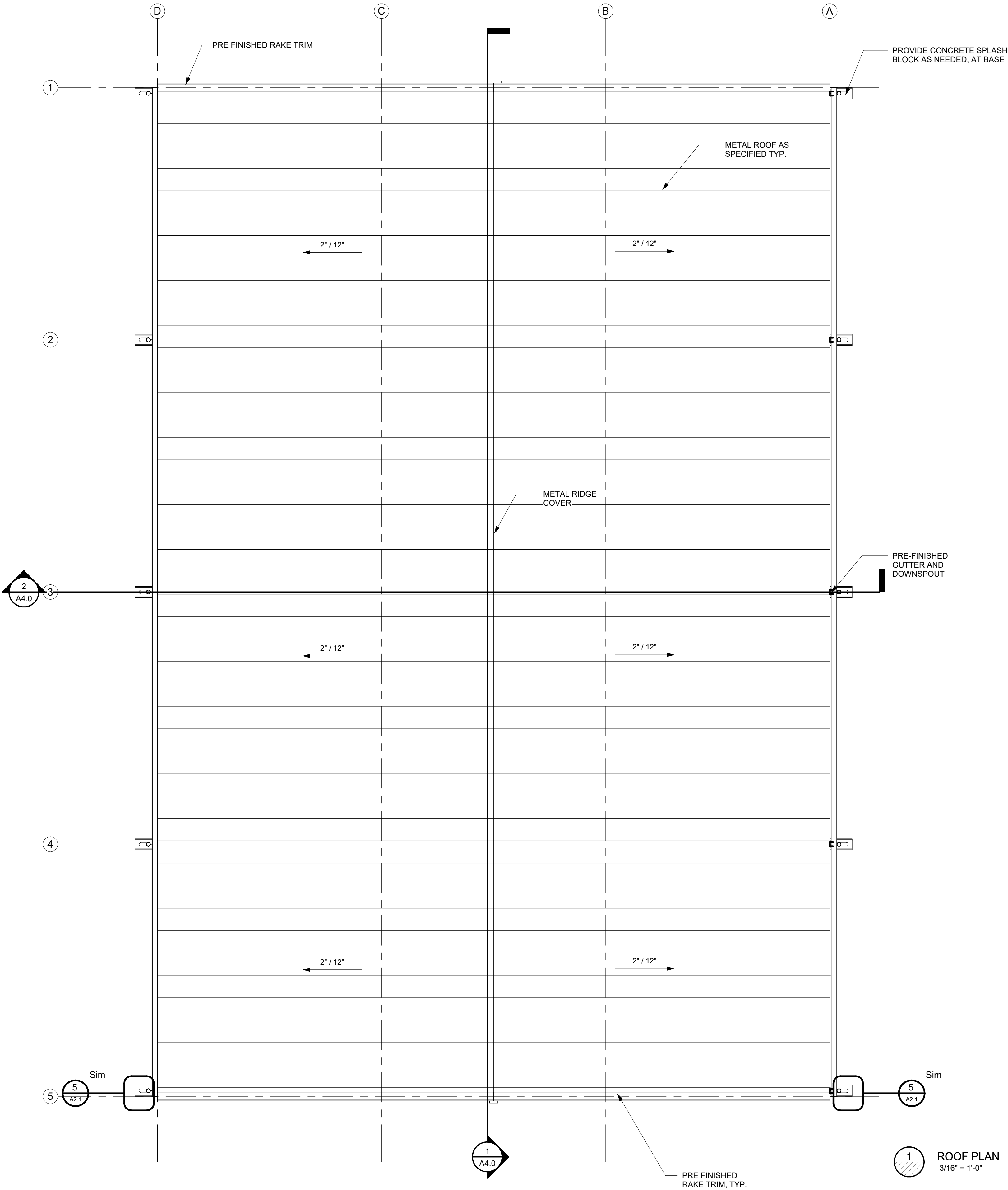
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ROOF PLAN
BASE BID

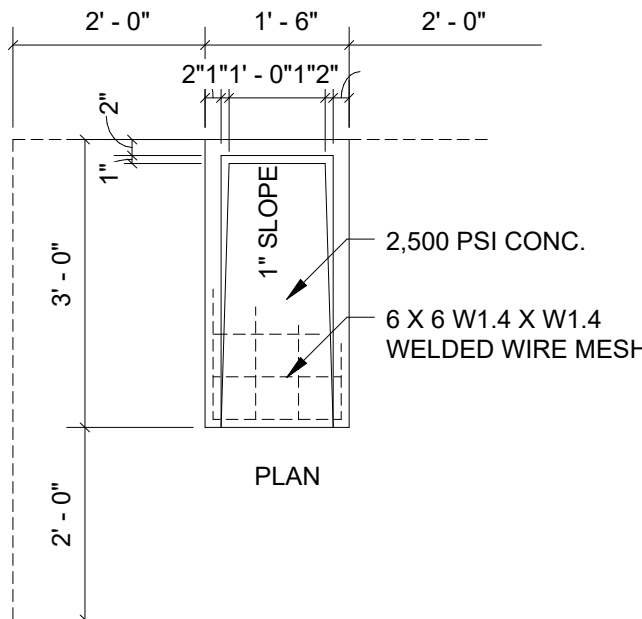
A2.1

GENERAL ROOF NOTES:

1. PROVIDE ALL REQUIRED UTILITY / STRUCTURAL COMPONENTS AND/OR CONNECTIONS FOR THE FUNCTIONAL USE OF ALL CONTRACTOR SUPPLIED EQUIPMENT OR APPLIANCES, REGARDLESS OF ANY OMISSIONS OR INCONSISTENCIES ENCOUNTERED IN THE CONSTRUCTION DOCUMENTS.
2. THE WORD 'PROVIDE' SHALL MEAN 'FURNISH AND INSTALL COMPLETE AND READY TO USE.'
3. IF DISCREPANCIES APPEAR BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE HIGHER QUALITY, QUANTITY, AND PRICE SHALL SUPERSEDE.
4. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BECOME FAMILIAR WITH THE PROJECT AND THE ON-SITE / OFF-SITE CONDITIONS PRIOR TO BIDDING OR COMMENCING WORK.
5. ROOF SLOPES SHOWN ON DRAWING ARE GENERAL AND CONCEPTUAL ONLY. PROVIDE POSITIVE DRAINAGE TO ALL GUTTERS. VERIFY IN SHOP DRAWINGS. REFER TO STRUCTURAL DOCUMENTS FOR EXACT TOS/BOD ELEVATIONS.
6. PROVIDE CRICKETS (1/2"/FT. MIN. SLOPE) AT HIGH SIDE OF ALL MECHANICAL UNITS SMOKE VENTS, EXHAUST FANS & OTHER MISC. ROOF PENETRATIONS, TO SHED WATER AROUND & TO ENSURE POSITIVE ROOF DRAINAGE.
7. ALL EXPOSED FLASHING, COPING (IF APPLICABLE) AND THEIR ACCESSORIES SHALL BE AS SPECIFIED. PAINT ALL METAL FLASHING THAT IS NOT PRE-FINISHED (TYP) AND VISIBLE FROM THE GROUND.
8. ALL PITCH PANS SHALL BE SOLDERED CLAD METAL AND RECEIVE EITHER MECHANICALLY ATTACHED GOOSENECK OR METAL BONNETS. METAL BONNETS SHALL BE SECURED WITH CLAMPING RING AND SEALANT. SPECIAL CARE GIVEN TO WASH ALL METAL PRIOR TO INSTALLATION.
9. PROVIDE NEW CONCRETE SPLASH BLOCKS AT ALL DOWNSPOUT DISCHARGE LOCATIONS.
10. ALL EQUIPMENT CURBS TO BE SET OR RAISED AS NECESSARY TO MAINTAIN 10" MINIMUM HEIGHT ABOVE FINISHED ROOF SURFACE.
11. MECHANICAL, ELECTRICAL, AND PLUMBING ROOF EQUIPMENT SHOWN ON THIS PLAN IS FOR GENERAL ARCHITECTURAL INFORMATION ONLY. REFER TO M.E.P. DOCUMENTS FOR ROOFTOP EQUIPMENT NOT SHOWN, AND FOR ADDITIONAL REQUIREMENTS AND COORDINATION.
12. REFER TO M.E.P. DOCUMENTS FOR THE PIPE SUPPORT LOCATIONS, TYPE, AND DETAILS. PAD SHALL BE MIN 2" WIDER THAN SUPPORT IN ALL DIRECTIONS.
13. GUTTERS SHALL BE PRE-FINISHED GALVANIZED STEEL. SIZE PER ROOF PLAN, UNO. PROVIDE PRE-FINISHED 1/4"x1 1/2" GALVANIZED STEEL BENT PLATE BRACKETS AND PRE-FINISHED 1" GALVANIZED STEEL SPACERS AT 36" O.C. MAX. STAGGER WITH EACH OTHER AT 18" O.C.
14. PROVIDE PRE-FINISHED GUTTER EJ'S 30'-0" O.C. MAX.
15. DOWNSPOUTS SHALL BE 4"x6" PRE-FINISHED GALVANIZED STEEL UNO AS INDICATED ON ROOF PLAN. PROVIDE PRE-FINISHED 2" GALVANIZED STEEL HANGERS AT 36" O.C. COORDINATE LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.

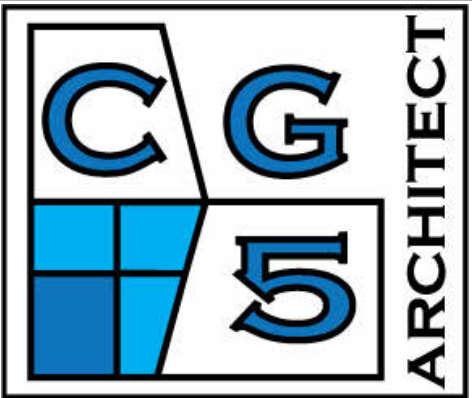


4 SPLASH
3/4" = 1'-0"



5 SPLASH GUARD
1/2" = 1'-0"

1 ROOF PLAN
3/16" = 1'-0"



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ECISD HIGH SCHOOL
ATHLETIC BUILDING
ECISD CSP 25-74

EDINBURG NORTH HIGH SCHOOL

3101 N Clossner Blvd,
Edinburg, TX 78541

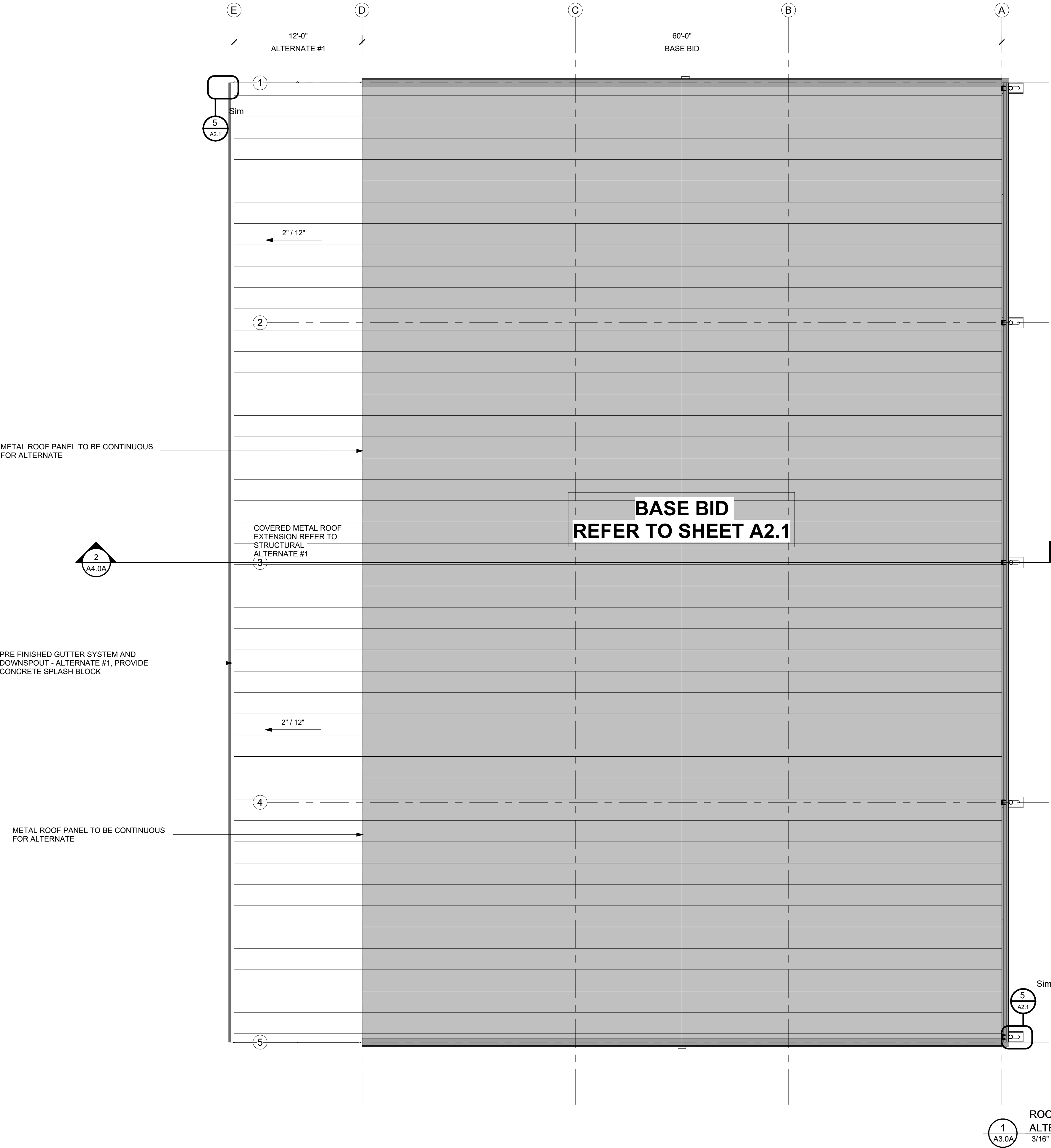
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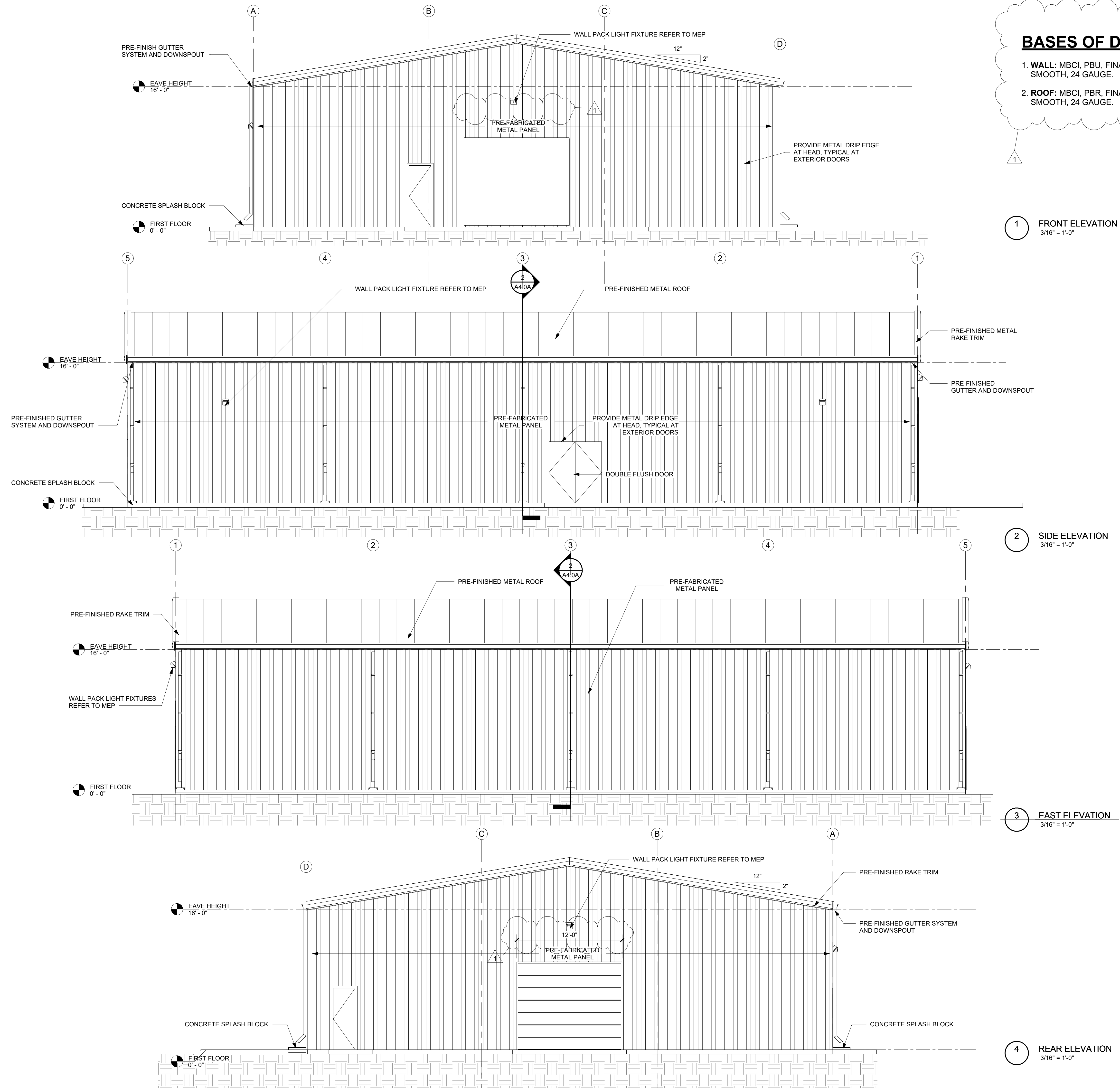
ROOF PLAN
ALTERNATE

A2.1A



GENERAL ROOF NOTES:

1. PROVIDE ALL REQUIRED UTILITY / STRUCTURAL COMPONENTS AND/OR CONNECTIONS FOR THE FUNCTIONAL USE OF ALL CONTRACTOR SUPPLIED EQUIPMENT OR APPLIANCES, REGARDLESS OF ANY OMISSIONS OR INCONSISTENCIES ENCOUNTERED IN THE CONSTRUCTION DOCUMENTS.
2. THE WORD 'PROVIDE' SHALL MEAN 'FURNISH AND INSTALL COMPLETE AND READY TO USE.'
3. IF DISCREPANCIES APPEAR BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE HIGHER QUALITY, QUANTITY, AND PRICE SHALL SUPERSEDE.
4. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BECOME FAMILIAR WITH THE PROJECT AND THE ON-SITE / OFF-SITE CONDITIONS PRIOR TO BIDDING OR COMMENCING WORK.
5. ROOF SLOPES SHOWN ON DRAWING ARE GENERAL AND CONCEPTUAL ONLY. PROVIDE POSITIVE DRAINAGE TO ALL GUTTERS. VERIFY IN SHOP DRAWINGS. REFER TO STRUCTURAL DOCUMENTS FOR EXACT TOS/BOD ELEVATIONS.
6. PROVIDE CRICKETS (1/2"/FT. MIN. SLOPE) AT HIGH SIDE OF ALL MECHANICAL UNITS SMOKE VENTS, EXHAUST FANS & OTHER MISC. ROOF PENETRATIONS, TO SHED WATER AROUND & TO ENSURE POSITIVE ROOF DRAINAGE.
7. ALL EXPOSED FLASHING, COPING (IF APPLICABLE) AND THEIR ACCESSORIES SHALL BE AS SPECIFIED. PAINT ALL METAL FLASHING THAT IS NOT PRE-FINISHED (TYP) AND VISIBLE FROM THE GROUND.
8. ALL PITCH PANS SHALL BE SOLDERED CLAD METAL AND RECEIVE EITHER MECHANICALLY ATTACHED GOOSENECK OR METAL BONNETS. METAL BONNETS SHALL BE SECURED WITH CLAMPING RING AND SEALANT. SPECIAL CARE GIVEN TO WASH ALL METAL PRIOR TO INSTALLATION.
9. PROVIDE NEW CONCRETE SPLASH BLOCKS AT ALL DOWNSPOUT DISCHARGE LOCATIONS.
10. ALL EQUIPMENT CURBS TO BE SET OR RAISED AS NECESSARY TO MAINTAIN 10" MINIMUM HEIGHT ABOVE FINISHED ROOF SURFACE.
11. MECHANICAL, ELECTRICAL, AND PLUMBING ROOF EQUIPMENT SHOWN ON THIS PLAN IS FOR GENERAL ARCHITECTURAL INFORMATION ONLY. REFER TO M.E.P. DOCUMENTS FOR ROOFTOP EQUIPMENT NOT SHOWN, AND FOR ADDITIONAL REQUIREMENTS AND COORDINATION.
12. REFER TO M.E.P. DOCUMENTS FOR THE PIPE SUPPORT LOCATIONS, TYPE, AND DETAILS. PAD SHALL BE MIN 2" WIDER THAN SUPPORT IN ALL DIRECTIONS.
13. GUTTERS SHALL BE PRE-FINISHED GALVANIZED STEEL, SIZE PER ROOF PLAN, UNO. PROVIDE PRE-FINISHED 1/4"x1 1/2" GALVANIZED STEEL BENT PLATE BRACKETS AND PRE-FINISHED 1" GALVANIZED STEEL SPACERS AT 36" O.C. MAX. STAGGER WITH EACH OTHER AT 18" O.C.
14. PROVIDE PRE-FINISHED GUTTER E.J'S 30'-0" O.C. MAX.
15. DOWNSPOUTS SHALL BE 4"x6" PRE-FINISHED GALVANIZED STEEL UNO AS INDICATED ON ROOF PLAN. PROVIDE PRE-FINISHED 2" GALVANIZED STEEL HANGERS AT 36" O.C. COORDINATE LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.



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**ECISD HIGH SCHOOL
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NORTH HIGH
SCHOOL**

3101 N
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78541

CLIENT:

EDINBURG CISD

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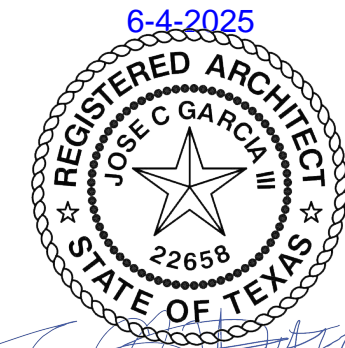
**EXTERIOR
ELEVATIONS
BASE BID**

A3.0



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SEAL:



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EDINBURG
NORTH HIGH
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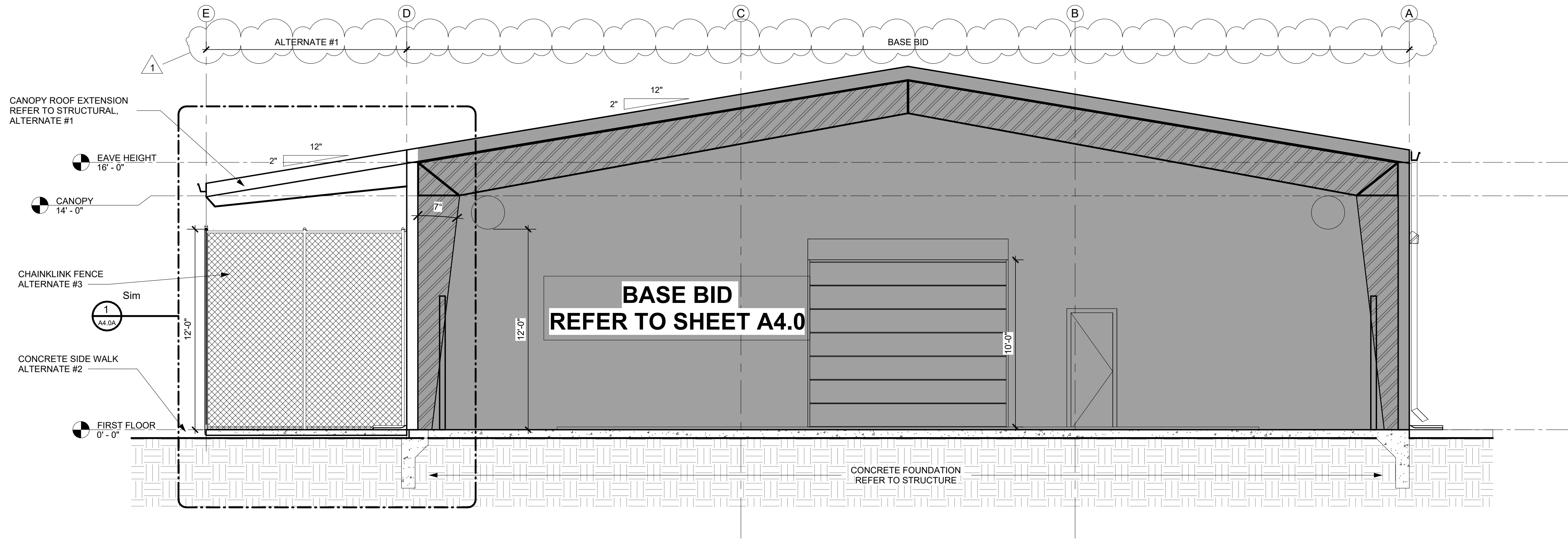
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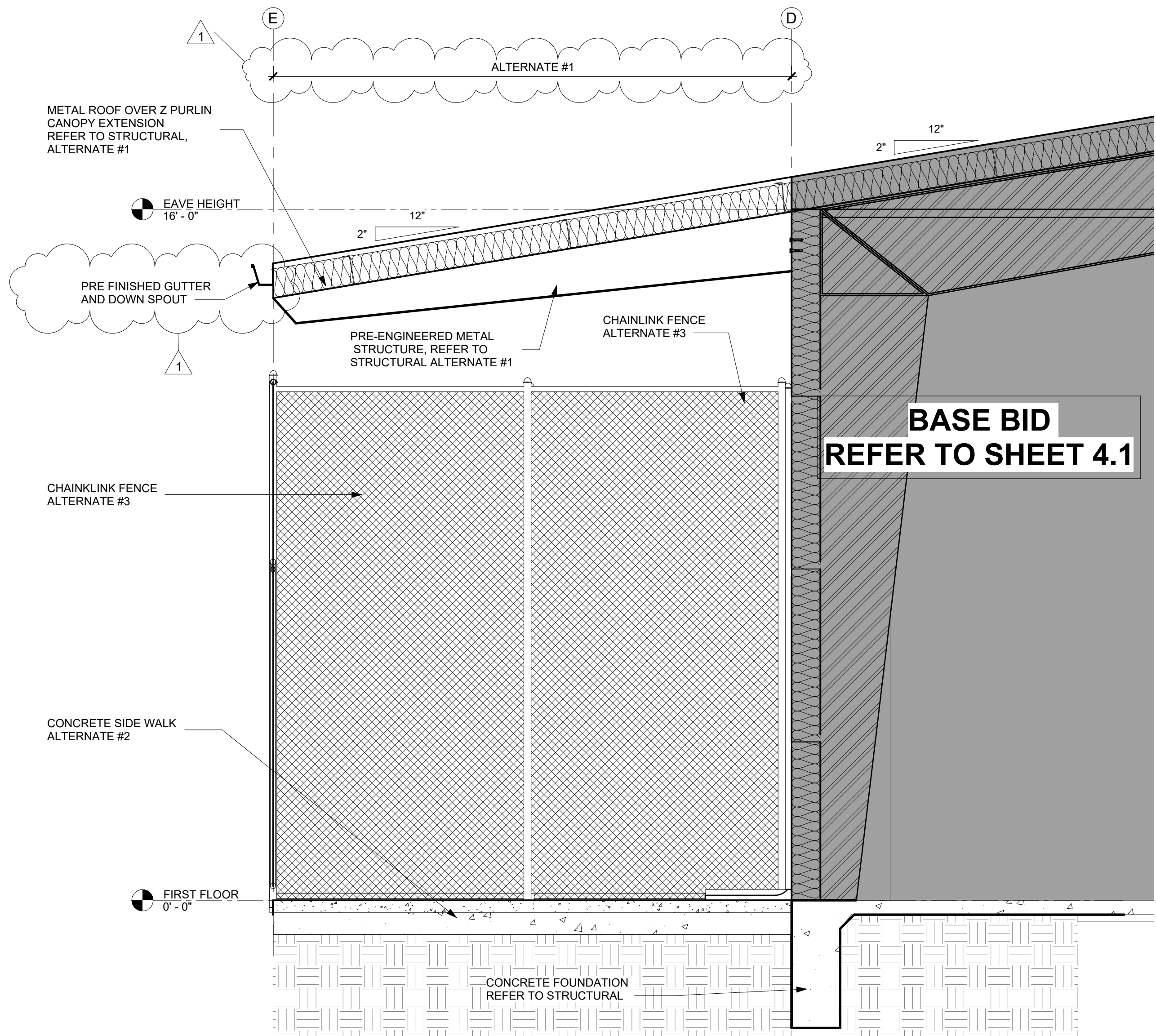
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DATE: 5/28/2025

BUILDING
SECTIONS
ALTERNATE

A4.0A



2
A2.0A
BUILDING SECTION
ALTERNATE
1/4" = 1'-0"



1
A4.0A
STORAGE AREA
ALTERNATE
1/2" = 1'-0"



TEXAS ARCHITECT
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ECISD HIGH SCHOOL
ATHLETIC MULTI-USE BUILDING
ECISD CSP 25-74

EDINBURG NORTH HIGH SCHOOL

3101 N
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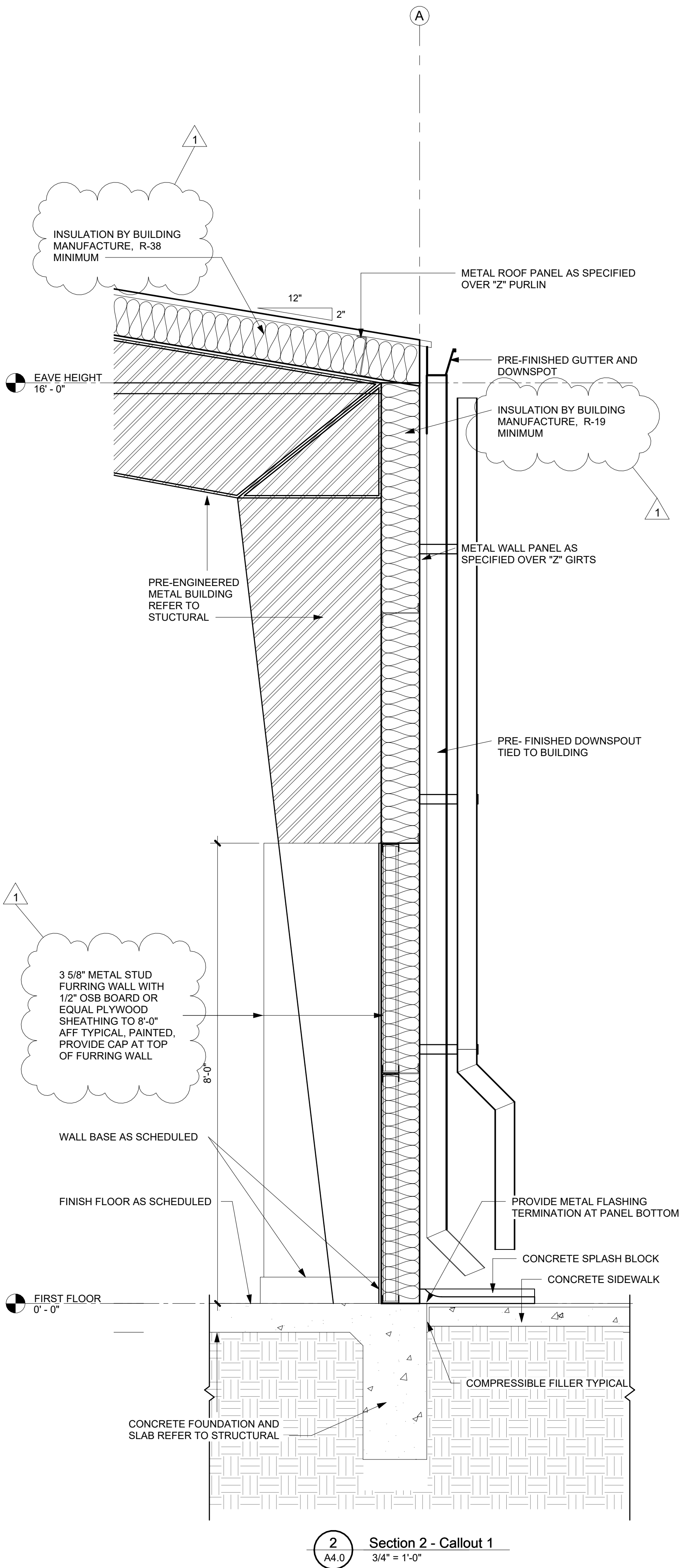
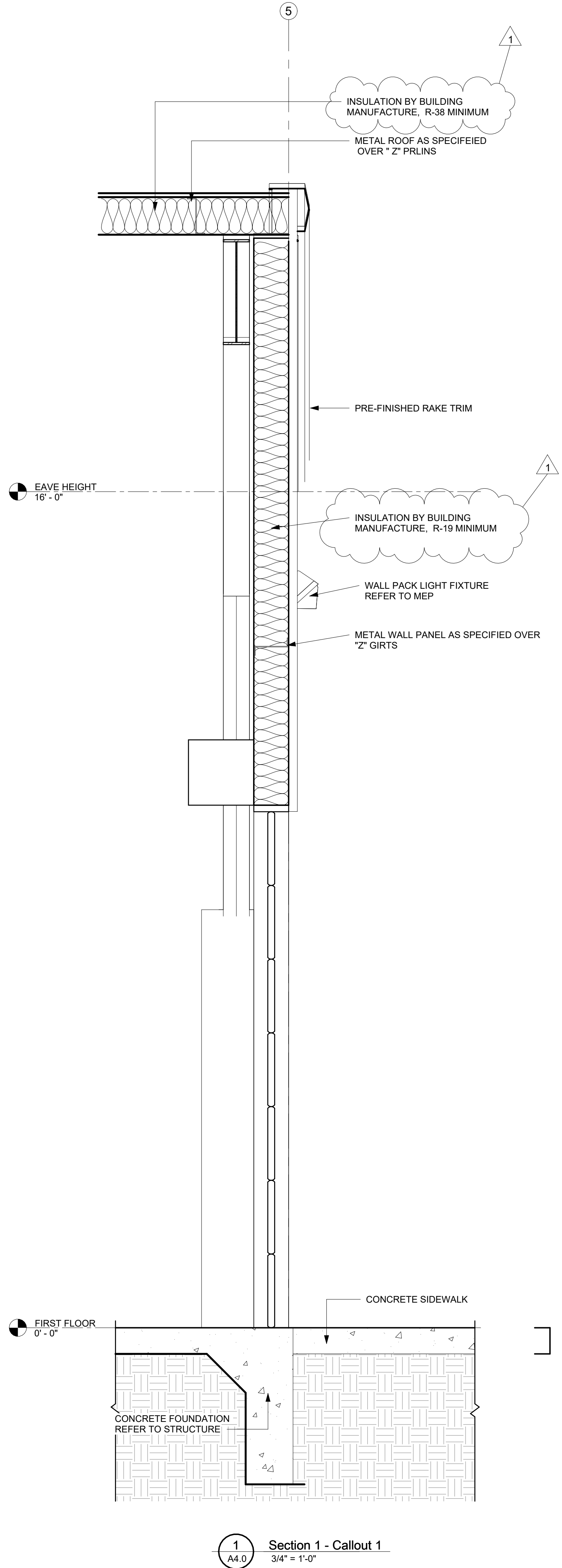
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WALL
SECTIONS AND
DETAILS BASE
BID

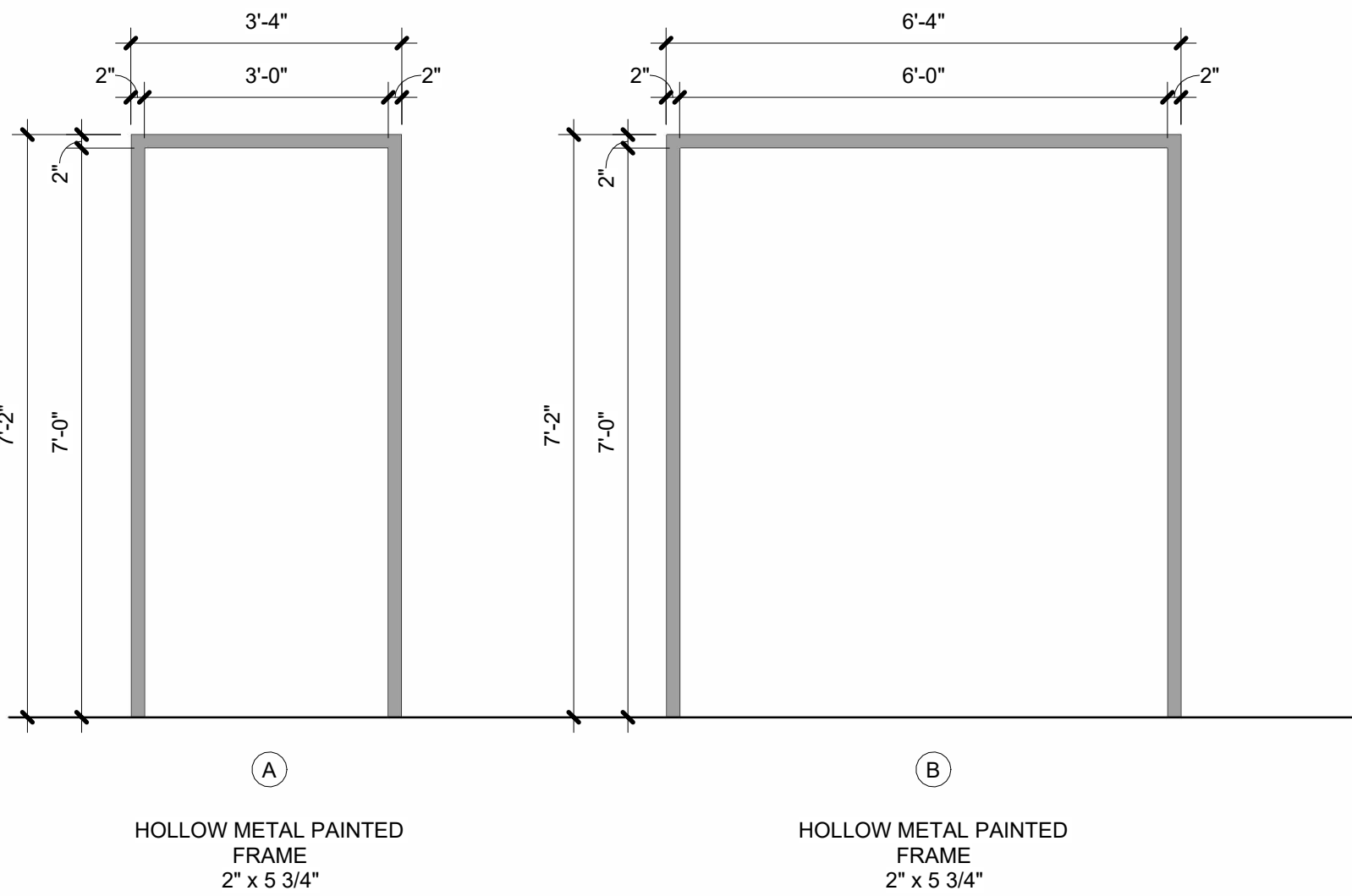
A4.1



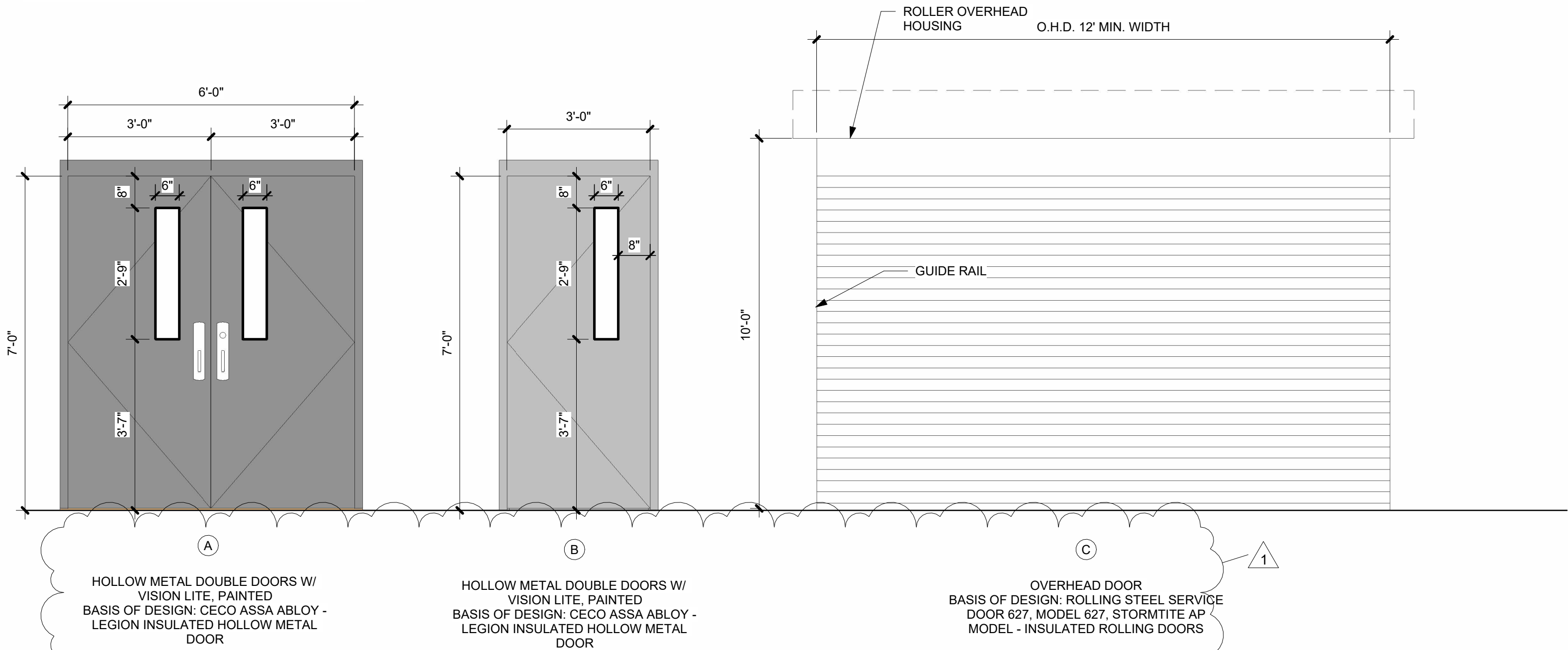
DOOR HARDWARE:

- DH1: DOORS:
6 - HINGES (BASIS OF DESIGN OR EQUAL); BEST DOOR HARDWARE PBB HINGES 4B81
1 - CENTER MULLION REMOVABLE
2 - THRESHOLDS
2 - PANIC DEVICE (BASIS OF DESIGN OR EQUAL); BEST DOOR HARDWARE PRECISION APEX 2100,
STANDARD, 1700C GRIP OR COMPATIBLE WITH ACCESS CONTROL, NO ALARM, DOOR SIZE AS SHOWN
ON PLAN, S300 STRIKE, 630 US32D
1 - WEATHER STRIPPING FOR DOUBLE DOOR (BASIS OF DESIGN OR EQUAL):
PEMKO PK55 - SELF ADHESIVE WEATHER SEAL GASKET
1 - RAIN GUARD FOR DOUBLE DOOR
2 - DOOR HOLD OPEN
2 - DOOR CLOSURES
- DH2: DOORS:
3 - HINGES (BASIS OF DESIGN OR EQUAL); BEST DOOR HARDWARE PBB HINGES 4B81
1 - KICK PLATE
1 - PANIC DEVICE (BASIS OF DESIGN OR EQUAL); BEST DOOR HARDWARE PRECISION APEX 2100,
STANDARD, 1700C GRIP OR COMPATIBLE WITH ACCESS CONTROL, NO ALARM, DOOR SIZE AS SHOWN
ON PLAN, S300 STRIKE, 630 US32D
1 - DOOR CLOSURE
1 - DOOR HOLD OPEN
- DH3: DOORS:
1 - RIM CYLINDER
ALL OTHER ACCESSORIES BY DOOR MANUFACTURERS
- DOOR HARDWARE GENERAL NOTES:
1. KEYS AS PER OWNER KEYING SYSTEM.
2. ALL HARDWARE TO BE MEDIUM TO HEAVY DUTY

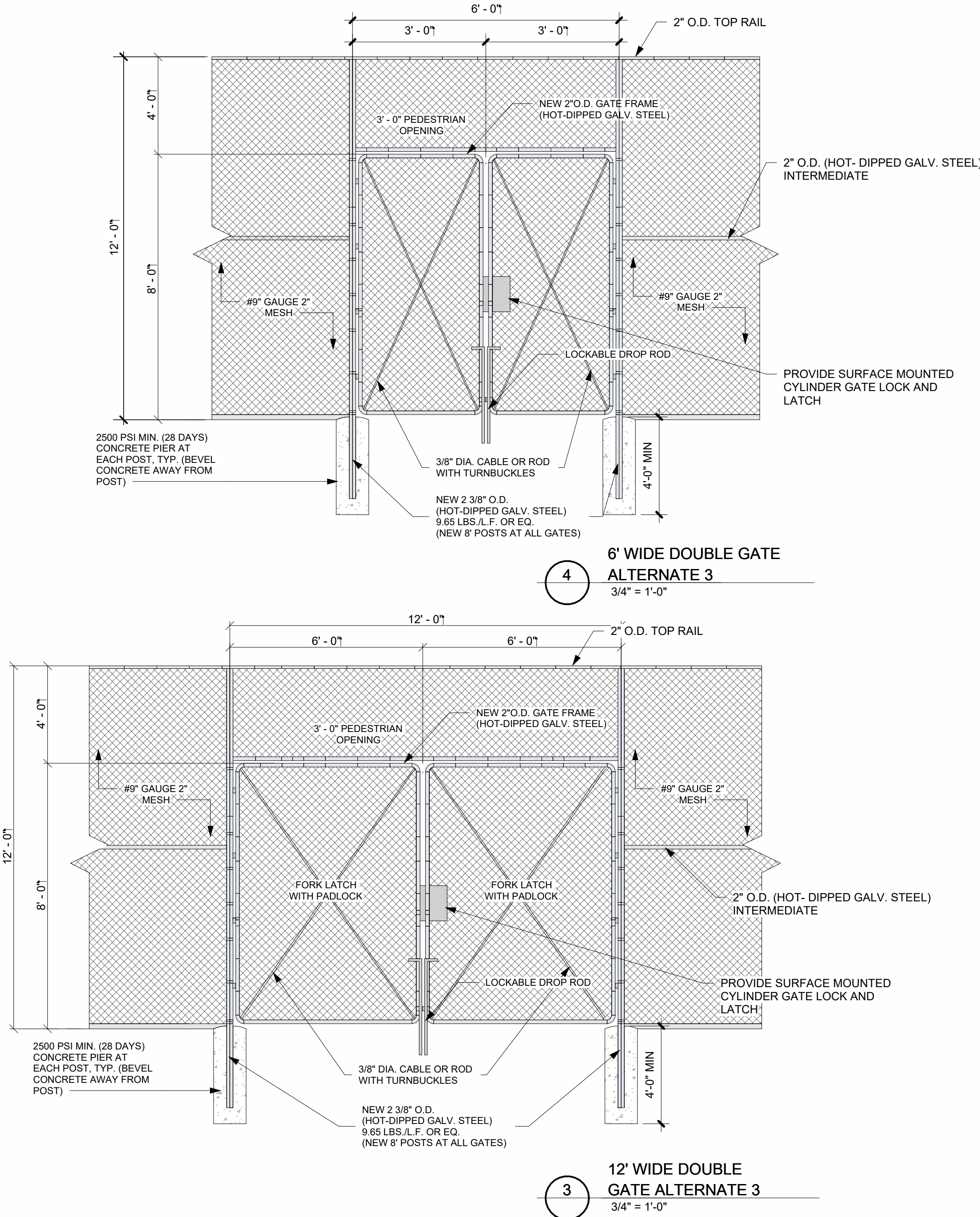
DOOR SCHEDULE								
MARK	LOCATION		TYPE DESCRIPTION	SIZE	DOOR MATERIAL	DOOR FRAME	DOOR HARDWARE	REMARKS
	FROM	TO		WIDTH x HEIGHT				
100	EXTERIOR	MULTIPURPOSE 100	B	3'-0" x 7'-0"	HOLLOW METAL	HOLLOW METAL	DH2	
101	EXTERIOR	MULTIPURPOSE 100	C	12'-0" x 10'-0"	METAL	METAL	-	INSULATED
102	EXTERIOR	MULTIPURPOSE 100	A	3'-0" x 7'-0" DOUBLE	HOLLOW METAL	HOLLOW METAL	DH1	
103	EXTERIOR	MULTIPURPOSE 100	B	3'-0" x 7'-0"	HOLLOW METAL	HOLLOW METAL	DH2	
104	EXTERIOR	MULTIPURPOSE 100	C	12'-0" x 10'-0"	METAL	METAL	-	INSULATED



DOOR FRAME TYPES



DOOR TYPES



TEXAS ARCHITECT
FIRM No: BR4247
WWW.CG5ARCHITECT.COM



ECISD HIGH
SCHOOL
ATHLETIC
MULTI-USE
BUILDING
ECISD CSP 25-74

EDINBURG
NORTH HIGH
SCHOOL

3101 N
Closner Blvd,
Edinburg, TX
78541

CLIENT:
EDINBURG CISD

REVISION:		
No.	Description	Date
1	ASI 1	5/28/2025

PROJECT #: 25-030102
DRAWN BY: EC
CHECKED BY: CG3
DATE: 5/28/2025

DOOR
SCHEDULE

A7.0



TEXAS ARCHITECT
FIRM No. BR4247
WWW.C3GARCHITECT.COM

SEAL:

ECISD HIGH
SCHOOL
ATHLETIC
MULTI-USE
BUILDING
25-74

EDINBURG
NORTH HIGH
SCHOOL

3101 N
Closner Blvd,
Edinburg, TX
78541

CLIENT:
EDINBURG CISD

REVISION:

No.	Description	Date
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PROJECT #:
DRAWN BY:
CHECKED BY:
DATE: 4/28/25

GENERAL
NOTES

ADDENDUM #2

S1.0



ENGINEERING, LLC
TBPE FIRM No. F-8719
701 S. 15th STREET McALLEN, TX. 78501
(956) 687-5560

GENERAL NOTES

GENERAL

- THE NOTES AND SPECIFICATIONS PROVIDED ON THE STRUCTURAL DRAWINGS ARE EXcerPTS FROM THE RELATING PROJECT SPECIFICATIONS. THEY ARE NEITHER COMPLETE NOR DO THEY REPLACE THE CONTRACT SPECIFICATIONS.
- CODE: CONSTRUCTION SHALL CONFORM TO THE PROVISIONS OF THE 2021 INTERNATIONAL BUILDING CODE OF LATEST ADOPTION AND ALL STANDARDS REFERENCED THEREIN IN THEIR ENTIRETY, WITH ALL LOCALLY ADOPTED AMENDMENTS, REFERENCED THEREIN.
- MEANS AND METHODS: THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS AND METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS RELATING TO THE SPECIFIC STRUCTURE. ERECTION ITEMS ADDRESSED IN THE LATEST OSHA REGULATIONS.
- GENERAL DETAILS AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS. ALL WORK OR CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATION AND SAFETY REQUIREMENTS.
- UNLESS ACCOMPANIED BY A FORMAL CHANGE ORDER, RESPONSES TO QUESTIONS AND RFI'S, COMMENTS MADE DURING THE REVIEW OF SUBMITTALS, AND DIRECTIVES PROVIDED IN ANY FORM BY THE ENGINEER TO THE CONTRACTOR DURING THE CONSTRUCTION PROCESS ARE INTENDED TO BE CLARIFICATIONS OF THE CONTRACT DOCUMENTS OR CORRECTIONS TO THE PERCEIVED INTERPRETATION OF THE INTENT OF CONTRACT DOCUMENTS BY THE CONTRACTOR. SUCH CLARIFICATIONS AND CORRECTIONS ARE NOT INTENDED TO REPRESENT A CHANGE IN COST OF THE PROJECT TO THE OWNER AND ARE CONSIDERED TO BE INFERRABLE FROM THE CONTENT OF THE CONTRACT DRAWINGS OR CONSISTENT WITH INDUSTRY STANDARDS OF CONSTRUCTION. IF THE CONTRACTOR DETERMINES THAT SUCH CLARIFICATIONS AND CORRECTIONS HAVE AN IMPACT ON THE COST OF THE PROJECT TO THE OWNER, THE CONTRACTOR SHALL SUBMIT A CHANGE ORDER REQUEST WITH DETAILED PRICING INFORMATION TO THE ARCHITECT BEFORE PURCHASING, DETAILING, FABRICATING, OR INSTALLING ANY COMPONENT RELATED TO SUCH CLARIFICATIONS AND CORRECTIONS.
- DISCREPANCIES: THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS. UPON RECEIPT OF SUCH INFORMATION, THE ENGINEER WILL SEND WRITTEN INSTRUCTIONS TO ALL CONCERNED. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND WORK SHALL BE PERFORMED IN A MANNER AS DIRECTED BY THE ENGINEER.
- SHORING: IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING, AND FORMWORK, AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING THE CONSTRUCTION OF THIS BUILDING. EXCESS LOAD CAPACITY OF SLAB SHALL NOT EXCEED LOADS EQUIVALENT TO THE DESIGN SUPERIMPOSED LOADS LESS CONSTRUCTION DEAD AND LIVE LOADS. DESIGN SUPERIMPOSED LOADS INCLUDE LIVE LOAD, PARTITION LOAD, AND ANY OTHER LOAD NOT IN PLACE AT THE TIME OF SHORING. FLOORS ARE NOT DESIGNED TO SUPPORT FORMWORK AND WET CONCRETE. WEIGHT OF NEXT LEVEL CONCRECTOR SHALL DESIGN AND PROVIDE RE-SHORING TO PREVENT OVERSTRESSING THE STRUCTURE.
- EXCAVATION: THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT.
- OTHER TRADES: IT IS NOT THE INTENT THAT THE STRUCTURAL DRAWINGS BE VIEWED AS STAND ALONE DRAWINGS WITH RESPECT TO PROJECT DIMENSIONS OR ANY OTHER COMPONENT OF THE CONSTRUCTION THAT CAN AND MAY BE DEFINED IN OTHER PARTS OF THE CONTRACT DOCUMENTS. IT REQUIRES THE ENTIRE SET OF CONTRACT DOCUMENTS TO PROPERLY CONSTRUCT THE STRUCTURE, AS WELL AS OTHER COMPONENTS OF THE BUILDING, ANCHORS REQUIRED FOR ANCHORING MEP EQUIPMENT AND/OR PIPING ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL DETERMINE AND COORDINATE REQUIREMENTS FROM OTHER DISCIPLINES AND PROVIDE APPROPRIATE ALLOWANCES INTO THE CONTRACTOR'S RESPONSIBILITY TO ASSEMBLE AND COORDINATE THE REQUIREMENTS OF ALL COMPONENTS OF THE CONTRACT DOCUMENTS IN ORDER TO PROPERLY IMPLEMENT THE REQUIREMENTS OF THE CONTRACT. SEE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF PIPES, VENTS, CHASES, DUCTS AND OTHER OPENINGS AND DETAILS NOT SHOWN ON THESE STRUCTURAL DRAWINGS. ALL DIMENSIONS ARE TO BE CHECKED AND VERIFIED WITH THE ARCHITECTURAL DRAWINGS.
- BRACING: THESE DRAWINGS ILLUSTRATE THE PRIMARY STRUCTURAL FRAME IN ITS COMPLETED FORM. TEMPORARY BRACING, PROPERLY DESIGNED UNDER THE SUPERVISION OF A LICENSED STRUCTURAL ENGINEER, SHALL BE PROVIDED AS REQUIRED TO HOLD ALL COMPONENTS OF THE STRUCTURE IN PLACE UNTIL FINAL SUPPORT IS SECURELY ANCHORED.
- INSPECTIONS: ANY INSPECTIONS, SPECIAL OR OTHERWISE, THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR THESE PLANS SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY. JOB SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE, OR SUBSTITUTE, INSPECTIONS UNLESS SPECIFICALLY CONTRACTED FOR.
- THE LOCATION AND DIMENSIONS OF ALL OPENINGS, DEPRESSIONS, RECESSES, SLOPES, BLOCKOUTS, CURBS, AND EMBEDMENTS SHOWN IN THE STRUCTURE WHICH ARE RELATED TO PURPOSES, DEPICTED IN CONTRACT DOCUMENTS OTHER THAN THE STRUCTURAL DRAWINGS OR BY MANUFACTURERS AND INSTALLERS OF VARIOUS EQUIPMENT AND FINISHES SHALL BE VERIFIED BY THE CONTRACTOR TO BE SATISFACTORY FOR THE PURPOSES DEPICTED BY THE CONTRACT DOCUMENTS REQUIRING SUCH ITEMS OR TO BE SUITABLE FOR THE INSTALLATION OF VARIOUS EQUIPMENT AND FINISHES. ANY REQUIREMENT FOR RELOCATION OR CHANGE IN DIMENSIONS OF ANY OPENING, DEPRESSION, RECESS, SLOPE, BLOCKOUT, OR EMBEDMENT SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER IN DRAWING FORM PRIOR TO THE FABRICATION OF MATERIALS OR CONSTRUCTION AN ALLOWANCE SHALL BE INCLUDED IN THE BID PRICE SUFFICIENT TO ADEQUATELY COVER STRUCTURAL REQUIREMENTS FOR SUCH ITEMS WITHOUT NEED FOR A FUTURE CHANGE TO THE BID PRICE.
- LOADINGS FOR MECHANICAL EQUIPMENT: ARE BASED ON THE UNITS SHOWN ON THE MECHANICAL DRAWINGS AND IN THE EQUIPMENT SCHEDULE. ANY CHANGES IN TYPE, SIZE, WEIGHT, OR NUMBER OF PEICES OF EQUIPMENT SHALL BE REPORTED TO THE ARCHITECT FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.
- SUBSTITUTIONS & DEVIATIONS: PROPOSED SUBSTITUTION OF MATERIALS, PRODUCTS OR DETAILS DEPICTED IN THE CONTRACT DOCUMENTS SHALL BE SUBMITTED ONLY DURING THE BIDDING PERIOD. AFTER BIDS ARE ACCEPTED, NOTICES IN WRITING OF ANY PROPOSED SUBSTITUTIONS OR ANY PROPOSED DEVIATIONS TO THE STRUCTURE AS REQUIRED BY THESE DOCUMENTS SHALL BE SUBMITTED WITH BACKUP DATA IDENTIFYING THE REASON FOR THE PROPOSED SUBSTITUTION OR DEVIATION. FOR PROPOSED SUBSTITUTIONS OF PRODUCTS, THE BACKUP DATA SHALL INCLUDE CURRENT I.C.B.O. REPORT. THE PROPOSED SUBSTITUTIONS SHALL BE CONSIDERED AFTER ACCEPTANCE OF BIDS, ONLY WHEN THEY ARE SUBMITTED WITH DOCUMENTED SAVINGS TO BE DEDUCTED FROM THE PROJECT CONTRACT AMOUNT. MATERIALS OR PRODUCTS THAT DO NOT HAVE AN I.C.B.O. REPORT, WILL NOT BE CONSIDERED FOR SUBSTITUTIONS.
- SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS NOT SHOWN AND FOR EXACT LOCATIONS OF ALL SLAB DEPRESSIONS. THE CONTRACTOR SHALL COMPAIRE THE STRUCTURAL SECTIONS WITH THE ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL MEMBERS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE GRADES WITH THE CIVIL ENGINEER'S GRADING PLAN AND THE LANDSCAPE ARCHITECT'S PLAN.
- IN THE DRAWINGS IN THE STRUCTURAL DOCUMENTS ARE NOT TO BE SCALED FOR ANY PURPOSE, INCLUDING THE DETERMINATION OF QUANTITIES AND THE USE OF MATERIALS.
- THESE PLANS MUST BE SUBMITTED FOR REVIEW BY THE GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS AND ERECTION IN THE FIELD.
- PRECONSTRUCTION MEETINGS : THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING, PRECONSTRUCTION MEETINGS FOR THE FOUNDATION AND SUPERSTRUCTURE ELEMENTS OF THE PRIMARY FRAME WITH A MINIMUM OF TWO WEEKS OF NOTICE PRIOR TO START OF THE RELEVANT WORK. ATTENDEES SHALL INCLUDE THE CONTRACTORS APPROPRIATE SUBCONTRACTORS, FABRICATORS, INSPECTORS, ARCHITECT/ENGINEERS, ON THE MEETING AGENDA SHALL BE REVIEW OF WORK SCHEDULE, PROJECT SCHEDULE OF THE ELEMENT IN QUESTION, CONTACT INFORMATION OF RESPONSIBLE PARTIES, INSPECTION POINTS, REVIEW OF MATERIALS, AND ANY SPECIAL DESIGN ISSUES, CLARIFICATIONS, TESTING AND ACCEPTANCE, AND ANY OTHER TOPIC DEEMED APPROPRIATE BY THE CONTRACTOR OR THE ARCHITECT.
- EXISTING UTILITIES : UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL PLANS, THE LOCATION OF ANY EXISTING SUBGRADE UTILITIES IS UNKNOWN. FOUNDATION CONSTRUCTION MAY HAVE TO BE MODIFIED UPON DISCOVERY OF SUCH ITEMS. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICT OF EXISTING UTILITY WITH THE CONSTRUCTION OF FOUNDATION ELEMENTS.
- ROOF DRAINAGE: THE ROOF STRUCTURE AND ITS SUPPORTING ELEMENTS HAVE BEEN DESIGNED WITH THE ASSUMPTION THAT RESISTANT DRAINAGE HAS BEEN PROVIDED TO PREVENT ANY PONDING OF WATER.

CODES

- BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE WITH CITY OF EDINBURG, TEXAS AMENDMENTS.
- STRUCTURAL CONCRETE: BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE, AC 318.
- STRUCTURAL STEEL: MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN, AMERICAN INSTITUTE OF STEEL CONSTRUCTION, NINTH EDITION.
- DESIGN 7-16
- WELDING
- REFERENCES:
 - AWS D1.186 - "STRUCTURAL WELDING CODE - STEEL"
 - AWS D1.381 - "STRUCTURAL WELDING CODE - SHEET STEEL"
 - ALL WELDING BY AWS QUALIFIED OPERATORS.

COORDINATION

- ONLY LARGER SLEEVE OPENINGS AND FRAMED OPENINGS IN STRUCTURAL FRAMING COMPONENT MEMBERS ARE INDICATED ON THE STRUCTURAL DRAWINGS. HOWEVER, ALL SLEEVES, INSERTS AND OPENINGS, INCLUDING FRAMES AND/OR SLEEVES SHALL BE PROVIDED FOR PASSAGE, PROVISION AND/OR INCORPORATION OF THE WORK OF THE CONTRACT, INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING WORK. THIS WORK SHALL INCLUDE THE COORDINATION OF SIZES, ALIGNMENT, DIMENSIONS, LOCATION, LOCATIONS, ELEVATIONS AND GRADES. AS REQUIRED TO DERIVE THE INTENDED PURPOSE, OPENINGS NOT INDICATED ON THE STRUCTURAL DRAWINGS, BUT REQUIRED AS NOTED ABOVE, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR FLOOR ELEVATIONS, SLOPES, DRAINS AND LOCATION, DEPRESSIONS AND ELEVATED FLOOR AREAS.
- COMPABILITY OF THE STRUCTURE AND PROVISIONS FOR BUILDING EQUIPMENT SUPPORTED ON OR FROM STRUCTURAL COMPONENTS SHALL BE VERIFIED AS TO SIZE, DIMENSIONS, CLEARANCES, ACCESSIBILITY, WEIGHTS AND LOCATION WITH THE EQUIPMENT FOR WHICH THE STRUCTURE HAS BEEN DESIGNED. PRIOR TO SUBMISSION OF SHOP DRAWINGS AND DATA FOR EACH PIECE OF EQUIPMENT AND FOR STRUCTURAL COMPONENTS, DIFFERENCES SHALL BE NOTED ON THE SUBMITTALS.
- SHOP DRAWINGS SHALL BE PREPARED FOR ALL STRUCTURAL ITEMS AND SUBMITTED FOR REVIEW BY THE ENGINEER. CONTRACT DRAWINGS SHALL NOT BE REPRODUCED AND USED AS SHOP DRAWINGS. ALL ITEMS DEVIATING FROM THE CONTRACT DRAWINGS OR FROM PREVIOUSLY SUBMITTED SHOP DRAWINGS SHALL BE CIRCLED FOR REVIEW.
- THE DETAILS DESIGNATED AS "TYPICAL DETAILS" APPLY GENERALLY TO THE DRAWINGS IN ALL AREAS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAILS.
- THE DESIGN AND PROVISION OF ALL TEMPORARY STRUCTURES SUCH AS GUYS, BRACES, FALSEWORK, SUPPORTS AND ANCHORS FOR SAFETY LINES, CRIBBING, OR ANY OTHER TEMPORARY ELEMENTS REQUIRED FOR THE EXECUTION OF THE CONTRACT ARE NOT INCLUDED IN THESE DRAWINGS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. TEMPORARY SUPPORTS SHALL NOT RESULT IN THE OVERSTRESS OR DAMAGE OF THE ELEMENTS TO BE BRACED NOR ANY ELEMENTS USED AS BRACE SUPPORTS.

STEEL ROOF DECK

- REFERENCE: STEEL DECK INSTITUTE "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS 1987-1988."
- DECK SHALL BE 1-1/2 INCH 20 GAGE GALVANIZED, TYPE F.
- DECK ENDS MAY BE EITHER BUTT OR LAPPED OVER SUPPORTS, ON JOIST FRAMING, APPROPRIATE END LAP SHALL OCCUR OVER A TOP CHORD ANGLE FOR PROPER ANCHORAGE.
- ATTACH METAL DECK TO STRUCTURAL STEEL WITH 5/8" DIAMETER PULDLE WELDS AT 6" O.C. AT PERIMETER AND 12" O.C. AT INTERMEDIATE SUPPORTS. FASTEN SIDE LAPS WITH #12 TENS SCREWS AT 6" O.C.

ALLOWANCE

- IN ADDITION TO THE MATERIAL SHOWN, THE CONTRACTOR TO PROVIDE ADDITIONAL MATERIAL, FOR USE ON THE PROJECT AS DIRECTED BY THE STRUCTURAL ENGINEER FIELD REPRESENTATIVE. THE ALLOWANCE COST SHALL INCLUDE MATERIAL COST, LABOR COSTS AND PLACEMENT AT THE SITE.
- REMAINING BALANCE AT THE END OF THE PROJECT SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMAINING BALANCE AT THE END OF THE PROJECT.
- THE ALLOWANCE SHALL APPEAR ON THE SCHEDULE OF VALUE AS A LINE ITEM.

MATERIAL	ALLOWANCE
CONCRETE	5 CU. YD.
REINFORCING STEEL	500 LBS.
STRUCTURAL STEEL	500 LBS.
CMU	0 SQ. FT.
CONCRETE SPALL REPAIR (4" DEEP)	0 SQ. FT.

SPECIAL NOTES TO OWNER

- UNDER NORMAL CONDITIONS, AND FOR CONVENTIONAL BUILDINGS SUCH AS THE SUBJECT MATTER, REINFORCED CONCRETE AND MASONRY DEVELOP CRACKS. THE CRACKS ARE DUE TO INHERENT SHRINKAGE OF CONCRETE, CREEP AND RESTRAINING EFFECTS OF VERTICAL AND OTHER STRUCTURAL ELEMENTS TO WHICH THE MEMBERS/ASLES ARE TIED.
- THE CRACKS FORMED ARE NORMALLY COSMETIC. THE SLAB MAINTAINS ITS SERVICEABILITY AND STRENGTH REQUIREMENTS. IT IS EMPHASIZED THAT ALTHOUGH SPECIAL REPAIR IS MADE TO REDUCE THE POTENTIAL CAUSES AND NUMBER OF SUCH CRACKS, IT IS NOT PRACTICAL TO PROVIDE TOTAL ARTICULATION BETWEEN THE FLOOR SYSTEM AND ITS SUPPORTS AND THEREBY ACHIEVE COMPLETE INHIBITION OF ALL CRACKS.
- MOST SUCH CRACKS DEVELOP OVER THE FIRST THREE YEARS OF THE LIFE OF THE FLOOR SYSTEM. CRACKS WHICH ARE WIDER THAN 0.1 INCH MAY NEED TO BE PRESSURE EPOXIED. REFER TO THE NOTES UNDER ALLOWANCES.
- THE OBJECT OF THE JOINTS PROVIDED IS TO ALLOW MOVEMENT, MOVEMENTS DUE TO CREEP AND SHRINKAGE MAY BE NOTICEABLE AT JOINTS UP TO TWO YEARS AFTER CONSTRUCTION, BEYOND WHICH MOVEMENTS DUE TO VARIATIONS IN TEMPERATURE WILL PERSIST.

DRAWING INTERPRETATION:

- GENERAL:
 - DECISIONS REGARDING THE APPLICABILITY OF "TYPICAL" AND/OR "SIMILAR" DRAWING VIEWS SHALL BE DETERMINED BY THE ENGINEER OF RECORD.
- DRAWING VIEWS LABELED AS "TYPICAL":
 - PARTIAL PLANS, ELEVATIONS, SECTIONS, DETAILS, OR SCHEDULES LABELED WITH "TYPICAL" SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME TO THOSE SHOWN.
 - THE APPLICABILITY OF THE CONTENT OF THESE VIEWS TO LOCATIONS ON THE PLAN CAN BE DETERMINED FROM THE TITLE OF THE VIEWS WHETHER OR NOT THEY ARE LABELED OR KEYS IN EACH LOCATION.
- DRAWING VIEWS LABELED AS "SIMILAR":
 - PARTIAL PLANS, ELEVATIONS, SECTIONS, DETAILS, OR SCHEDULES LABELED WITH "SIMILAR" SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE OF SIMILAR CONTENT AND DESIGN INTENT.
 - THE EXACT CONTENT OF THE INDICATED DRAWING VIEW, THAT MAY NOT COMPLETELY ADJUST INFORMATION TO REPRESENT THE DESIGN INTENT.
 - THE VIEWS LABELED AS "SIMILAR" MAY REQUIRE MODIFICATIONS TO THE PARTIAL DETAIL TO MATCH THE CONDITION OF THE INDICATED DRAWING VIEW.

EXTERIOR COMPONENT AND CLADDING:

- GENERAL:
 - ALL EXTERIOR COMPONENT AND CLADDING SYSTEMS SHALL MEET THE MINIMUM WIND REQUIREMENTS AS PRESCRIBED BY THE INTERNATIONAL BUILDING CODE (IBC), PROJECT EDITION.
 - EXTERIOR COMPONENT AND CLADDING SYSTEMS SHALL, BUT NOT LIMITED TO: WINDOWS, CURTAINWALLS, STOREFRONTS, DOORS, SIDINGS, METAL WALL AND ROOF PANELS, ROOFING SYSTEMS, SKYLIGHTS, ROOFTOP EQUIPMENT, ETC.
 - CONTRACTOR SHALL SUBMIT COMPONENT AND CLADDING ASSEMBLY WIND PRESSURE AND IMPACT RESISTANCE TESTING RATINGS (WHEN APPLICABLE) TO AND ENGINEER FOR REVIEW.
- TESTED ASSEMBLIES:
 - THE CONTRACTOR SHALL INSTALL PROJECT SPECIFIC ASSEMBLIES THAT HAVE BEEN TESTED AND MEET THE APPLICABLE PERFORMANCE REQUIREMENTS.
 - PROJECT ASSEMBLIES SHALL BE INSTALLED IN THE SAME MANNER AS TESTED ASSEMBLIES INCLUDING COMPONENTS, REINFORCEMENT, GLAZING, HARDWARE, ANCHORS, FASTENING LOCATIONS, DETAILS, AND ALL APPLICABLE ACCESSORIES.
 - THE TESTED ASSEMBLY SHALL MEET THE POSITIVE AND NEGATIVE COMPONENT AND CLADDING WIND PRESSURES INDICATED ON THE STRUCTURAL DRAWINGS.
- ASSEMBLY PERFORMANCE STANDARDS:
 - ASTM E630 - STANDARD TEST METHOD FOR STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS, DOORS, SKYLIGHTS, AND CURTAIN WALLS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE.
 - ASTM E1981 - STANDARD TEST METHOD FOR STRUCTURAL PERFORMANCE OF SHEET METAL ROOF AND SIDING SYSTEMS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE.
 - ASTM E1886 - STANDARD TEST METHOD FOR PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, DOORS, AND IMPACT PROTECTIVE SYSTEMS IMPACTED BY MISSILES AND EXPOSED TO CYCLIC PRESSURE DIFFERENTIALS.
 - ASTM E1887 - STANDARD SPECIFICATION FOR PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, DOORS, AND IMPACT PROTECTIVE SYSTEMS IMPACTED BY WIND-BORNE DEBRIS IN HURRICANES.
 - FM 4450 - APPROVAL STANDARD FOR CLASS 1 INSULATED STEEL DECK ROOF'S.
 - FM 4470 - APPROVAL STANDARD FOR SINGLE PLY POLYMER MODIFIED BITUMEN SHEET, BUILT-UP ROOF (BUR) AND LIQUID APPLIED ROOF ASSEMBLIES FOR USE IN CLASS 1 AND NONCOMBUSTIBLE ROOF DECK CONSTRUCTION.
 - FM 4474 - AMERICAN NATIONAL STANDARD FOR EVALUATING THE SIMULATED WIND UPLIFT RESISTANCE OF ROOF ASSEMBLIES USING STATIC POSITIVE AND/OR NEGATIVE DIFFERENTIAL PRESSURES.
 - UL 1881 - STANDARD FOR TESTS FOR UPLIFT RESISTANCE OF ROOF ASSEMBLIES.
 - UL 1897 - STANDARD FOR UPLIFT TESTS FOR ROOF COVERING SYSTEMS.
 - ASTM D7789 - STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (UPLIFT FORCE/UPLIFT RESISTANCE METHOD).
 - ASTM D226 - STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING.

SHOP DRAWINGS AND SUBMITTALS:

- SUBMITTAL LIST AND SCHEDULE:
 - THE GENERAL CONTRACTOR SHALL PREPARE A DETAILED LIST AND SCHEDULE OF ALL SUBMITTAL ITEMS TO BE SENT TO THE STRUCTURAL ENGINEER PRIOR TO THE START OF CONSTRUCTION. THE LIST SHALL INCLUDE:
 - a. DESIGN CALCULATIONS
 - b. PRODUCTS, ASSEMBLIES, AND HARDWARE
 - c. PRODUCT CERTIFICATES, MILL CERTIFICATES, AND FABRICATOR CERTIFICATES
 - d. SHOP DRAWINGS
- SHOP DRAWINGS AND SUBMITTALS:
 - THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEERING REVIEW SHOP DRAWINGS AND SUBMITTALS FOR THE FOLLOWING ITEMS BUT NOT LIMITED TO:
 - a. CONCRETE MIX DESIGN AND ACCESSORIES
 - b. CONSTRUCTION JOINT LOCATIONS IN SLAB-ON-GRADE
 - c. EMBEDDED PLATES
 - d. GROUT MIX DESIGN
 - e. MASONRY ASSEMBLAGE
 - f. MISCELLANEOUS STEEL
 - g. MORTAR MIX DESIGN
 - h. PRE-ENGINEERED CANOPY REACTIONS
 - i. REINFORCING STEEL
 - j. ROOF DECK
 - k. ROOFTOP UNITS LOCATIONS AND ANCHORAGE
 - l. STEEL JOISTS AND JOIST ORDERS
 - m. STEEL STAIRS AND LADDERS
 - n. STRUCTURAL STEEL CONNECTION DETAILS
 - o. STRUCTURAL STEEL

- *SHOP DRAWINGS OR SUBMITTALS REQUIRED TO BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS IN
- ALLOW A MINIMUM OF 12 WORKING DAYS FOR REVIEW OF EACH SET OF SHOP DRAWINGS.
- GENERAL CONTRACTOR'S ROLE PRIOR TO SUBMISSION:

- ALL SHOP DRAWINGS AND SUBMITTALS SHALL BE REVIEWED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE ENGINEER FOR REVIEW.
- THE GENERAL CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS SUBMITTED BY THEIR SUB-CONTRACTORS AND COORDINATE SHOP DRAWINGS WITH ALL OTHER TRADES PRIOR TO SUBMISSION TO THE ENGINEER FOR REVIEW.
- THE GENERAL CONTRACTOR SHALL ANSWER ALL QUESTIONS OR CLARIFICATIONS BY THE SUB-CONTRACTORS BEFORE SUBMITTING TO THE ENGINEER FOR REVIEW.
- SHOP DRAWINGS AND SUBMITTAL LEGIBILITY

- SHOP DRAWINGS AND SUBMITTALS SHALL USE DRAFTING LINE WORK AND LETTERING THAT IS CLEAR.
- SHOP DRAWINGS AND SUBMITTALS SHALL SHOW CLEAR AND COMPLETE INFORMATION FOR THE FABRICATION AND INSTALLATION.

- REVIEW OF THE SHOP DRAWINGS AND SUBMITTALS IS FOR GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS. REVIEW OF THE SHOP DRAWINGS AND SUBMITTALS BY THE ENGINEER DOES NOT INDEMNIFY THE CONTRACTOR FOR ANY ERRORS AND/OR OMISSIONS IN DIMENSIONS, MATERIALS, AND/OR STRUCTURAL ELEMENTS INDICATED IN THE SHOP DRAWINGS AND SUBMITTALS.
- DISCREPANCIES

- IF THERE EXISTS ANY DISCREPANCIES BETWEEN THE STRUCTURAL DRAWINGS AND SHOP DRAWINGS AND/OR SUBMITTALS, THE INFORMATION IN THE STRUCTURAL DRAWINGS SHALL SUPERSEDE INFORMATION THAT IS NOT INDICATED ON THE SHOP DRAWINGS SHALL BE OBTAINED FROM THE STRUCTURAL DRAWINGS.
- REPRODUCTION:
 - THE USE OF THE ELECTRONIC FILES OR REPRODUCTIONS OF THE CONTRACT DOCUMENTS BY THE GENERAL CONTRACTOR, AND SUB-CONTRACTOR, ERECTOR, FABRICATOR, OR SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS AND/OR SUBMITTALS INDICATES THEIR ACCEPTANCE OF ALL INFORMATION SHOWN IN THESE DOCUMENTS ARE 100% CORRECT, AND RELEASES THEMSELVES TO ANY EXPENSES, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.

MISCELLANEOUS:

- CONTRACT DOCUMENTS:
 - IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN ALL CONSTRUCTION DOCUMENTS, THE LATEST ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUB-CONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, AND ERECTION IN THE FIELD.
 - THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES.
 - THE GENERAL CONTRACTOR SHALL COORDINATE ALL OPENINGS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND PROTECTION DRAINS AND VENTS.
 - REFERENCE THE COMPLETE CONTRACT DOCUMENTS FROM THE STRUCTURAL DRAWINGS SUCH AS F. CERTAIN FEATURES ARE NOT FULLY SHOWN OR SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SHOWN OR SPECIFIED IN SIMILAR CONDITIONS.
 - WHERE DETAILS OR SECTIONS ARE NOT SHOWN IN THE DRAWINGS, THE GENERAL CONTRACTOR SHALL DEVELOP THEIR OWN DETAILS OR SECTIONS BASED ON SIMILAR DETAILS OR SECTIONS IN THE DRAWINGS.
- DRAWING CONFLICTS:
 - THE GENERAL CONTRACTOR SHALL GIVE NOTIFICATION OF ANY AND ALL DISCREPANCIES WITH THE STRUCTURAL DRAWINGS PRIOR TO BIDDING, FABRICATION, AND INSTALLATION OF ALL STRUCTURAL MEMBERS.
- CONFLICTS IN STRUCTURAL REQUIREMENTS:
 - WHERE CONFLICTS EXIST WITH THE STRUCTURAL DRAWINGS, GENERAL NOTES, OR SPECIFICATIONS, THE MORE STRINGENT, STRICTER, REQUIREMENT SHALL SUPERSEDE.
- EXISTING CONDITIONS:
 - THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE EXISTING BUILDINGS AT THE JOB SITE AND REPORT ANY DISCREPANCIES FROM ASSUMED CONDITIONS SHOWN ON THE DRAWINGS TO THE ENGINEER PRIOR TO FABRICATION, ERECTION, OR INSTALLATION OF ANY STRUCTURAL MEMBERS.
 - WORK SHOWN ON THE DRAWINGS IS NEW CONSTRUCTION, UNLESS NOTED AS EXISTING IN THE DRAWINGS.
 - EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS IS LIMITED SITE OBSERVATION; THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS.
 - DEMOLITION, CUTTING, DRILLING, ETC. OF EXISTING WORK SHALL BE PERFORMED WITH HIGH CAUTION SUCH THAT IT DOES NOT JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING. IF ANY ENGINEER, STRUCTURAL, OR MEP MEMBERS OR ELEMENTS ARE CONFLICTING WITH THE NEW CONSTRUCTION, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY AND APPROVAL SHALL BE OBTAINED PRIOR TO REMOVING CONFLICTING MEMBERS OR ELEMENTS.
 - THE CONTRACTOR SHALL SHORE EXISTING CONSTRUCTION WHENEVER EXISTING SUPPORTS ARE REMOVED TO ALLOW THE INSTALLATION OF NEW CONSTRUCTION. ALL SHORING METHODS AND SEQUENCING OF DEMOLITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION WITH "TYPICAL" AND "SIMILAR" DRAWING VIEWS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES CAUSED DURING CONSTRUCTION WITH SIMILAR AND DISSIMILAR MATERIALS AS WELL AS WORKMANSHIP TO RESTORE CONDITIONS TO LEVELS ACCEPTABLE TO THE OWNER.
- ADJACENT BUILDINGS:
 - THE GENERAL CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION WILL NOT CAUSE DAMAGE TO THE ADJACENT BUILDINGS AND PROPERTY.

- RESPONSIBILITY OF THE CONTRACTOR:
 - ALL STRUCTURAL ELEMENTS AND MEMBERS OF THE PROJECT HAVE BEEN DESIGNED BY THE STRUCTURAL ENGINEER TO RESIST THE CODE REQUIRED VERTICAL AND LATERAL LOADS THAT COULD OCCUR IN THE FINAL COMPLETED STRUCTURE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BRACE, STABILIZE, AND MAINTAIN SAFETY OF ALL STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PROCESS UNTIL THE STRUCTURAL SYSTEM HAS BEEN COMPLETED.
 - THE STRUCTURE HAS BEEN DESIGNED TO THE VERTICAL AND LATERAL LOADS INDICATED IN THESE DOCUMENTS. THE CONTRACTOR IS CAUTIONED NOT TO OVERLOAD THE STRUCTURAL SYSTEM DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE ADEQUACY OF THE STRUCTURE TO SUPPORT ANY APPLIED CONSTRUCTION LOADS, INCLUDING THOSE DUE TO CONSTRUCTION VEHICLES OR EQUIPMENT, MATERIAL HANDLING AND STORAGE, SHORING OR RESHORING, OR ANY OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL SUBMIT CALCULATIONS SIGNED AND SEALED BY A LICENSED REGISTERED ENGINEER IN THE STATE THE PROJECT IS LOCATED TO VERIFY THE ADEQUACY OF THE STRUCTURE FOR ANY PROPOSED CONSTRUCTION LOADS THAT ARE IN EXCESS OF THE STATED DESIGN LOADS. THE ENGINEER OF RECORD IS NOT RESPONSIBLE TO DESIGN OR CHECK THE STRUCTURE FOR LOADS APPLIED BY ANY CONSTRUCTION ACTIVITY.

- SUBSTITUTIONS:
 - ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL THAT DIFFER FROM THE MATERIAL, OR PRODUCTS SPECIFIED IN THE STRUCTURAL DOCUMENTS WILL BE APPROVED ONLY IF THERE IS A COST SAVING TO THE OWNER, DOCUMENTED, AND AN INTERNATIONAL CODE COUNCIL (ICC) REPORT IS SUBMITTED WITH THE REQUEST.
 - FOR SUBSTITUTIONS FOR ANY MATERIALS OR PRODUCTS SUBMITTED THROUGH OR LATERAL LOADS SHALL BE SUBMITTED WITH SIGNED AND SEALED CALCULATIONS BY A LICENSED REGISTERED ENGINEER IN THE STATE THE PROJECT IS LOCATED IN ADDITION TO THE CRITERIA STATED ABOVE. REFER TO THE SPECIFICATIONS ON SUBSTITUTIONS.

- COORDINATION WITH GEOTECHNICAL ENGINEER:
 - THE GEOTECHNICAL ENGINEER SHALL BE THE OWNER'S REPRESENTATIVE TO CONTROL THE PLACEMENT OF COMPACTED FILL.
 - THE GEOTECHNICAL ENGINEER SHALL APPROVE THE SUBGRADE PREPARATION, THE SELECT FILL MATERIAL, THE METHOD OF PLACING THE FILL, AND THE TESTING OF THE FILL.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE PLACEMENT AND TESTING OF ALL FILTS WITH THE GEOTECHNICAL ENGINEER. FAILURE TO DO SO WILL REQUIRE REMOVAL OF FILL AT THE CONTRACTOR'S EXPENSE.
 - A WRITTEN SOILS REPORT SHALL BE FORMULATED BY THE GEOTECHNICAL ENGINEER TO INDICATE APPROVAL OF THE COMPLETED FILL.

- GEOTECHNICAL REPORT:
 - THE PROJECT GEOTECHNICAL REPORT SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS.
 - ALL EARTHWORK AND GRADING SHALL BE PERFORMED ACCORDANCE WITH THE RECOMMENDATIONS INDICATED IN THE REPORT, OR AS INDICATED ABOVE WHICHEVER IS MORE STRINGENT.

- CONSTRUCTION DEVIATING:
 - THE CONTRACTOR SHALL DETERMINE THE EXTENT OF CONSTRUCTION DEVIATING REQUIRED FOR THE EXCAVATION. THE CONTRACTOR SHALL SUBMIT TO THE GEOTECHNICAL ENGINEER FOR REVIEW THE PROPOSED PLAN FOR CONSTRUCTION DEVIATING, PRIOR TO BEGINNING THE EXCAVATION.

DESIGN CRITERIA

- FOUNDATION AND FRAMING DESIGN IS IN ACCORDANCE WITH THE IBC 2021
- GEOTECHNICAL REPORT: (PENDING GEOTECH REPORT) BY:
 - PROJ. NO.:
 - MINIMUM DEPTH: 30"
 - MINIMUM BEAM WIDTH: 12 INCHES
 - BEARING CAPACITY (WIDENED BEAM FOOTINGS): 1.5 KSF
 - BEARING CAPACITY (CONTINUOUS BEAM FOOTINGS): 1.5 KSF
 - DESIGN PLASTICITY INDEX: 20
 - PER EXISTING: 1"
- ROOF:
 - DEAD LOAD: 25 PSF
 - LIVE LOAD: 20 PSF
- WIND: BASIC WIND SPEED (3 SEC. GUST): 147 MPH

GEOTECHNICAL INVESTIGATION

THE OWNER OF THIS PROJECT HAS DECLINED TO FURNISH A GEOTECHNICAL INVESTIGATION REPORT THEREFORE THE FOUNDATION DESIGN WAS BASED UPON AVERAGE SOIL CONDITIONS IN HIDALGO COUNTY, TEXAS. IF HIGHLY EXPANSIVE OR MODERATELY EXPANSIVE SOILS (OR SOFT SOILS ARE ENCOUNTERED), DIFFERENTIAL FOUNDATION MOVEMENTS CAN BE EXPECTED. ALTHOUGH WE ATTEMPT TO MAKE ASSUMPTIONS THAT WILL NOT IMPAIR STRUCTURAL INTEGRITY OF THE PROJECT, WE DO NOT HAVE THE EXPERTISE OR BENEFIT OF LABORATORY INVESTIGATIONS OF A GEOTECHNICAL ENGINEER. THEREFORE THIS FIRM CANNOT ASSUME RESPONSIBILITY FOR THE PERFORMANCE OF THE DESIGN FOUNDATION SHOULD ACTUAL SURFACE OR SUBSURFACE SOIL CONDITIONS VARY FROM THOSE PROVIDED IN THE FOLLOWING ASSUMPTIONS:

- SOIL BEARING PRESSURE (AT PROPOSED SITE) = 1500 PSF

FOUNDATION SUBGRADE:

A. PREPARATION OF EXISTING GRADE:

- ALL AREA TO SUPPORT SELECT FILL SHALL BE STRIPPED OF ALL VEGETATION AND/OR ORGANIC TOPSOIL.
- REMOVE ALL TREES AND ROOTS UNDER THE BUILDING'S FOOTPRINT INCLUDING CANOPIES AND OTHER STRUCTURAL FOUNDATIONS SHOWN IN THESE CONTRACT DOCUMENTS.
- THE SCOPE OF EXISTING GRADE PREPARATION SHALL BE AS FOLLOWS:
 - a. MINIMUM DEPTH OF REMOVAL PER GEOTECHNICAL REPORT
 - b. EXTEND BEYOND THE BUILDING FOOTPRINT 5 FEET

B. EXCAVATION

- WHERE SELECT FILL IS INDICATED IN THESE CONTRACT DOCUMENTS, THE CORRESPONDING SCOPE OF EXCAVATION SHALL BE AS FOLLOWS:
 - a. MINIMUM ELEVATION OF EXCAVATION PER GEOTECH REPORT
 - b. EXTEND BEYOND THE BUILDING FOOTPRINT 5 FEET
- THE EXPOSED SUBGRADE, AFTER EXCAVATION, SHOULD BE PROFILED IN ACCORDANCE WITH ITEM 216 OF TxDOT 2014 SPECIFICATION.
- WEAK OR SOFT AREAS IDENTIFIED DURING PROOFLING ACTIVITIES SHOULD BE TREATED WITH HYDRATED LIME OR PORTLAND CEMENT OR REMOVED AND REPLACED WITH SUITABLE, COMPACTED SELECT FILL. IF THE TREATMENT OPTION IS SELECTED, WEAK OR SOFT AREAS MAY BE MIXED WITH HYDRATED LIME OR PORTLAND CEMENT DOWN TO A MINIMUM DEPTH OF 8 INCHES.
- THE EXPOSED SUBGRADE SHALL BE SCAPED TO A DEPTH OF 12 INCHES AND MOISTURE CONTENT COMPACTED TO WITHIN 0.1% TO 0.3% OF THE OPTIMUM MOISTURE CONTENT.
- THE SUBGRADE SHALL BE COMPACTED TO 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698.

AFTER COMPLETED CLEARING AND PREPARATION OF THE SITE FOR CONSTRUCTION, THE GEOTECHNICAL ENGINEER SHALL OBSERVE THE SITE TO DETERMINE THAT SATISFACTORY PREPARATION HAS BEEN ACCOMPLISHED.

C. SELECT FILL

- THE FOLLOWING SOILS MAY BE CONSIDERED SATISFACTORY FOR USE AS SELECT FILL MATERIAL AT THIS SITE:
 - a. SOILS CLASSIFIED ACCORDING TO UNCS AS SC, SM, GM, CL, ML, AND COMBINATIONS OF THESE SOILS
 - b. SELECT FILL SHALL HAVE A LIQUID LIMIT OF LESS THAN 40.
 - c. SELECT FILL SHALL HAVE A PLASTICITY INDEX BETWEEN AND INCLUSIVE OF 8 AND 20, LL < 40
- THE NATIVE SOILS AT THIS SITE ARE NOT CONSIDERED SUITABLE FOR USE AS SELECT FILL MATERIAL.
- PLACEMENT OF SELECT FILL SHALL MEET THE FOLLOWING CRITERIA:
 - a. SELECT FILL SHALL BE CONDITIONED AND COMPACTED UP TO THE PROPOSED FINISH FLOOR ELEVATION.
 - b. FILL LIFTS NOT EXCEEDING 8 INCHES LOOSE LIFTS (8 INCHES COMPACTED)
 - c. NON WETTED CONTENT: 20% TO 25% (NON WETTED)
 - d. COMPACTION: 95% OF MAXIMUM DRY DENSITY DETERMINED BY ASTM D698
- ORGANIC OR OTHER PERISHABLE MATERIAL ARE NOT PERMITTED IN THE SELECT FILL.
- STONES LARGER THAN 12 INCHES OR ONE-HALF THE LOOSE LIFT THICKNESS, WHICHEVER IS SMALLER, ARE NOT PERMITTED IN THE SELECT FILL.

- THE FINISH FLOOR SHALL BE AS INDICATED ON CIVIL DRAWINGS.

- SOILS CLASSIFIED AS BASE MATERIAL, MEETING THE REQUIREMENTS OF TxDOT 2014 SPECIFICATION ITEM 241 TYPE E, GRADE 4 - CALICHE (SEE TABLE 2 FOR SPECIFICATIONS & REQUIREMENTS) OR ITEM 241 TYPE A, GRADE 12 - LIMESTONE (SEE TABLE 4 FOR SPECIFICATIONS & REQUIREMENTS).
- 802 RECOMMENDS ADDITIONAL QUALITY CONTROL OF ALL STRUCTURAL FILL MATERIALS AS THEY ARE PLACED AND COMPACTED TO ENSURE THAT THEY MEET THE REQUIREMENTS STATED ABOVE.
- STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM 98% PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D698 AT MOISTURE CONTENTS RANGING BETWEEN MINIMUM TWO (2) AND PLUS TWO (2) PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT. STRUCTURAL FILL SHALL BE PLACED IN CLOSE LIFTS NOT TO EXCEED 8 INCHES (8 INCHES COMPACTED). THE FILL SHOULD BE PROPERLY COMPACTED IN ACCORDANCE WITH THESE RECOMMENDATIONS AND TESTED FOR COMPACTION AS GEOTECH REPORT.

- PLEASE REFERENCE GEOTECH REPORT FOR STRUCTURAL FILL GRADATION TO RESPECTIVE TYPE: a. ELEMENTS.
- PERMETER FOUNDATION CAP

- THE FINAL 18 INCHES OF FILL OVER THE BUILDING AREA SHOULD CONSIST OF A COHESIVE LOW PERMEANCE CLAY CAP (CH OR CL OR SL). THE CLAY CAP SHALL BE SLOPED AWAY FROM THE FOUNDATION WITH A MINIMUM GRADIENT OF 6 INCHES IN 5 FEET AND THE SURROUNDINGS SHALL HAVE A POSITIVE DRAINAGE, REFER TO THE CIVIL DRAWINGS FOR FINAL ELEVATIONS.
- THE CLAY CAP CANNOT BE ALLOWED TO DRY OUT DURING OR AFTER COMPACTION. THE MINIMUM PLASTICITY INDEX SHALL BE 20.
- THE CLAY CAP SHALL BE A MINIMUM 50% BY WEIGHT PASSING THE NO. 200 SIEVE.
- THE CLAY CAP SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DRY DENSITY DETERMINED BY ASTM D698.
- THE MOISTURE CONTENT SHOULD BE 0% TO 4% WITHIN OPTIMUM.
- IF PLANTINGS ARE INTENDED, ADD 4 TO 6 INCHES OF LOAM ON TOP OF THE CLAY CAP.

E. FIELD CONDITIONS

- IN THE EVENT FOUNDATION EXCAVATIONS ARE CARRIED TO A DEPTH GREATER THAN REQUIRED, THE ADDITIONAL DEPTH SHALL BE FIL



TEXAS ARCHITECT
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SEAL:

ECISD HIGH
SCHOOL
ATHLETIC
MULTI-USE
BUILDING
25-74

EDINBURG
NORTH HIGH
SCHOOL

3101 N
Closner Blvd,
Edinburg, TX
78541

CLIENT:

EDINBURG CISD

REVISION:

No.	Description	Date

PROJECT #:

DRAWN BY:

CHECKED BY:

DATE: 4/28/25

GENERAL
NOTES

ADDENDUM #2

S1.1

REINFORCED CONCRETE:

A. GENERAL

1. VERIFY ALL DIMENSIONS, COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO BIDDING, AND/OR CONSTRUCTION.
2. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI) SPECIFICATIONS, ACI 301, ACI 308, AND ACI 117 LATEST EDITIONS, FOOTINGS, MATS, AND DRILLED PIERS SHALL COMPLY WITH ACI 308, LATEST EDITION.
3. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS, AND ALL ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI 315 MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE, LATEST EDITION.

B. CLASSES OF CONCRETE

1. REFERENCE 195G1.2 FOR THE MINIMUM 28-DAY COMPRESSIVE STRENGTH (f_c) FOR ALL CLASSES OF CONCRETE.

C. CONCRETE MIX

1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE CONCRETE MIX FOR EACH CLASS OF CONCRETE TO ACHIEVE THE 28-DAY COMPRESSIVE STRENGTH. PREPARE DESIGN MIXES SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE THE PROJECT IS IN FOR EACH CLASS OF CONCRETE PROPORTIONED ACCORDING TO ACI 301, FOR BOTH NORMALWEIGHT AND LIGHTWEIGHT CONCRETE DETERMINED BY EITHER LABORATORY TRIAL MIX OR FIELD TEST DATA.
2. FIELD EXPERIENCE OR TRIAL MIXTURES ARE ACCEPTABLE PROVIDED ALL CRITERIA ARE MET:
 - a. THE CONTRACTOR PROVIDES PROPER DOCUMENTATION OF THE STRENGTH TEST RECORDS NOT MORE THAN 24 MONTHS OLD AND SHALL CLEARLY INDICATE MATERIALS, QUALITY CONTROL PROCEDURES, AND CONDITIONS SIMILAR TO THOSE EXPECTED FOR THE PROJECT. THE CONCRETE MATERIALS INCLUDED IN THE MIX DESIGN SHALL BE THE SAME MATERIALS PROVIDED FOR THE PROJECT, AND SHALL BE PREPARED BY AN INDEPENDENT TESTING LABORATORY APPROVED BY THE OWNER.
 - b. A MINIMUM OF 30 CONSECUTIVE TESTS OR TWO GROUPS OF CONSECUTIVE TESTS TOTALING TO 30 TESTS.
 - c. ALL CONSECUTIVE TESTS ARE WITHIN 1000 PSI OF f_c .
 - d. THE CONTRACTOR SHALL SUBMIT A CALCULATION OF THE SAMPLE STANDARD DEVIATION AND THE REQUIRED AVERAGE COMPRESSIVE STRENGTH, f_{cr} , IN ACCORDANCE TO ACI 318 (EDITION LISTED ON DESIGN CRITERIA) SECTIONS 8.5.1 AND TABLE 8.5.2.1, RESPECTIVELY.
3. SLUMP: REFERENCE 195G1.2 FOR SLUMP. f_c UNLESS NOTED OTHERWISE.
4. ADJUSTMENT TO CORRELATE ADJUSTMENTS MAY BE REQUESTED BY THE CONTRACTOR WHEN CHARACTERISTICS OF MATERIALS, JOB CONDITIONS, WEATHER, TEST RESULTS, OR OTHER CIRCUMSTANCES WARRANT. AT NO ADDITIONAL COST TO OWNER AND AS ACCEPTED BY THE OWNER, LABORATORY TEST DATA FOR REVISED MIX DESIGN AND STRENGTH MUST BE SUBMITTED TO AND ACCEPTED BY THE OWNER OR OWNER REP. BEFORE USING IN WORK. BOTH THE CONCRETE TESTING AND INSPECTION AGENCY AND THE CONCRETE CONTRACTOR SHALL SATISFY THEMSELVES THAT THE CONCRETE MIX DESIGN WILL PRODUCE A CONCRETE MIX THAT WILL MEET THE SPECIFICATIONS FOR THIS PROJECT. IN ADDITION, THE CONTRACTOR AND CONCRETE FINISHER SHALL VERIFY THAT THE WORKABILITY, FINISH, AND SETTING TIMES ARE APPROPRIATE FOR CONCRETE INSTALLATIONS. PLACEMENT SHALL BE MADE BY CHUTE DIRECTLY FROM THE CONCRETE TRUCKS. IF PUMPING OF THE CONCRETE IS CONTINGENTED FOR ANY SPECIAL LOCATIONS, THE PROPORTIONS ESTABLISHED ABOVE SHALL NOT BE ALTERED TO THE CAPABILITIES OF THE PUMPING EQUIPMENT. PUMP SHALL NOT BE PRIMED OVER STRUCTURAL CONCRETE LOCATIONS.
5. READY MIX CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM C94. DISCHARGE OF THE CONCRETE SHALL BE COMPLETED WITHIN 90 MINUTES OR BEFORE THE DRUM HAS REVOLVED 300 REVOLUTIONS, WHICHEVER COME FIRST.
6. WATER/CEMENT RATIO SHALL BE BASED ON SURFACE DRY MATERIAL. REFERENCE 195G1.2.
7. PORTLAND CEMENT: CONFORM TO ASTM C150, TYPE I. USE ONE MANUFACTURER OF CEMENT THROUGHOUT THE PROJECT.
8. FLY ASH: CONFORM TO ASTM C618.
9. COARSE AND FINE AGGREGATES: CONFORM TO ASTM C33 FOR NORMALWEIGHT CONCRETE AND ASTM C330 FOR LIGHTWEIGHT CONCRETE.
10. WATER: CONFORM WITH ASTM C1602.
11. CHEMICAL ADMixTURES: ALL CONCRETE SHALL CONTAIN CHEMICAL ADMixTURES TO OBTAIN THE SPECIFIED DESIGN STRENGTH IN ACCORDANCE WITH ASTM C494.
12. AIR-ENTRAINING ADMixTURES: SHALL CONFORM TO ASTM C260. AIR-ENTRAINING ADMixTURE SHALL NOT BE USED ON INTERIOR CONCRETE.
13. WATER-REDUCING ADMixTURE: SHALL CONFORM TO ASTM C494, TYPE A AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS.
14. WATER-REDUCING, RETARDING ADMixTURE: SHALL CONFORM TO ASTM C494, TYPE D, AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS.
15. HIGH RANGE WATER-REDUCING ADMixTURE (SUPERPLASTICIZER): SHALL CONFORM TO ASTM C494, TYPE F OR TYPE G AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS.
16. WATER-REDUCING, NON-CORROSIVE ACCELERATING ADMixTURE: SHALL CONFORM TO ASTM C494, TYPE G OR E AND CONTAIN NOT MORE CHLORIDE IONS THAN THAT ARE PRESENT IN MUNICIPAL DRINKING WATER. THE ADMixTURE MANUFACTURER MUST HAVE LONG-TERM, NON-CORROSIVE TEST DATA FROM AN INDEPENDENT TESTING LABORATORY (OF AT LEAST A YEARS DURATION) USING AN ACCEPTABLE ACCELERATED CORROSION TEST METHOD SUCH AS THAT USING ELECTRICAL POTENTIAL MEASURES.
17. PROHIBITED ADMixTURES: CALCIUM CHLORIDE OR ADMixTURES CONTAINING MORE THAN 0.05% CHLORIDE IONS ARE NOT PERMITTED.

D. CONSTRUCTION JOINTS

1. NO HORIZONTAL CONSTRUCTION JOINTS WILL BE PERMITTED IN SLABS OR BEAMS BLOCK OUT "BLEEDS SHALL BE DEMOLISHED.
2. VERTICAL CONSTRUCTION JOINTS IN SLABS OR BEAMS ARE TO BE AS SHOWN ON PLANS OR AS APPROVED BY THE ENGINEER.
3. SURFACE OF CONSTRUCTION JOINTS SHALL BE CLEANED AND LANTANCE REMOVED.
4. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, ALL CONSTRUCTION JOINTS SHALL BE WETTED AND STANDING WATER REMOVED.
5. REFERENCE TYPICAL DETAILS FOR CONSTRUCTION JOINT REINFORCING AND SHEAR KEY REQUIREMENTS.
6. CONSTRUCTION JOINTS IN FLOORS SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE SPAN OF SLABS, BEAMS, AND GIRDERS.
7. CONSTRUCTION JOINTS IN GIRDERS SHALL BE OFFSET A MINIMUM DISTANCE OF TWO TIMES THE WIDTH OF THE INTERESTING BEAM.
8. BEAMS, GIRDERS, HAUNCHES, DROP PANELS, SHEAR CAPS, AND CAPITALS SHALL BE PLACED MONOLITHICALLY UNLESS NOTED OTHERWISE.

E. OPENINGS AND PENETRATIONS

1. ALL OPENINGS IN SLAB (FOR PIPES, DRAIN, ETC.) SHALL BE SEALED WITH SEALANT.
2. UTILITIES THAT PROJECT THROUGH SLAB FLOORS SHALL BE DESIGNED WITH SLEEVES IN ORDER TO PREVENT DAMAGE TO THE LINE SHOULD ANY MOVEMENT OCCUR.
3. ALL OPENINGS AND PENETRATIONS ARE TO BE REINFORCED AROUND THE PERIMETER. REFERENCE THE TYPICAL DETAILS FOR REINFORCING REQUIREMENTS.

F. EMBEDMENTS

1. ANCHOR RODS, DOWELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR TO PLACING CONCRETE. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ALL MOLDS, GROOVES, REGLETS, PIPES, CONDUITS, INSERTS, ETC. TO BE CAST IN CONCRETE. PRECAST CONCRETE SHALL BE PLACED IN SLEEVES FOR PLUMBING AND ELECTRICAL CONDUITS AND PIPES. NO PIPES OR DUCTS SHALL BE GROVED IN CONCRETE FOOTINGS, BEAMS, COLUMNS, WALLS, OR SLABS UNLESS DETAILED IN STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER OF RECORD.
2. CONDUITS ARE PERMITTED TO BE LOCATED BELOW SLAB-ON-GRADE REINFORCING THESE MUST BE LOCATED BELOW THE DESIGN DEPTH OF THE SLAB WITHIN A THICKENED SLAB. COORDINATE INSTALLATION OF BACKWAYS PRIOR TO PLACEMENT.
3. NO LIQUID, GAS, OR VAPOR, EXCEPT WATER NOT EXCEEDING 90 DEGREES FAHRENHEIT NOR 50 PSI PRESSURE SHALL BE PLACED IN THE PIPES UNTIL THE CONCRETE HAS ACHIEVED ITS DESIGN STRENGTH.
4. ALUMINUM CONDUITS, PIPES, OR OTHER INSERTS ARE NOT PERMITTED TO BE EMBEDDED INTO STRUCTURAL CONCRETE.

G. FORMWORK, SHORING, AND BACKSHORING

1. ALL FORMWORK SHALL BE DESIGNED BY THE GENERAL CONTRACTOR IN ACCORDANCE TO THE ACI 347 "GUIDE TO FORMWORK FOR CONCRETE" LATEST EDITION.
2. DESIGN OF FORMWORK SHALL CONSIDER:
 - a. RATE AND METHOD OF PLACING CONCRETE.
 - b. CONSTRUCTION LOADS, INCLUDING VERTICAL, HORIZONTAL, AND IMPACT LOADS.
 - c. SPECIAL FORM REQUIREMENTS FOR CONSTRUCTION OF CURVED MEMBERS, SHELLS, FOLDED PLATES, DOMES, ARCHITECTURAL CONCRETE, OR SIMILAR TYPES OF ELEMENTS.
3. FORMS SHALL BE PROPERLY BRACED OR TIED TOGETHER TO MAINTAIN POSITION OF SHAPE.
4. FORMS SHALL BE SUBSTANTIAL AND SUFFICIENTLY TIGHT TO PREVENT LEAKAGE OR BLOWOUTS.
5. FORMS SHALL BE REMOVED SUCH THAT IT DOES IMPAIR THE SAFETY, SERVICEABILITY, AND STRUCTURAL INTEGRITY OF THE STRUCTURE.
6. BEFORE STARTING CONSTRUCTION, THE GENERAL CONTRACTOR IS RESPONSIBLE IN DEVELOPING A PROCEDURE AND SCHEDULE FOR REMOVAL OF SHORES AND INSTALLATION OF RESHORES AND FOR CALCULATING THE LOADS TRANSFERRED TO THE STRUCTURE DURING THE PROCESS.
7. NO CONSTRUCTION LOADS SHALL BE SUPPORTED ON, ANY SHORING REMOVED FROM, ANY PART OF THE STRUCTURE UNDER CONSTRUCTION EXCEPT SHORING HAS SUFFICIENT STRENGTH TO SUPPORT, SAFELY, ITS SELF-WEIGHT AND LOADS PLACED THEREON.
8. SUFFICIENT STRENGTH OF THE STRUCTURE BEING CONSIDERED IS OBTAINED WHEN THE CONCRETE STRENGTH HAS REACHED ITS DESIGN STRENGTH THROUGH APPROVED TESTING.

H. CONCRETE TESTING

1. CONCRETE SHALL BE TESTED IN ACCORDANCE TO ASTM C172, ASTM C31, ASTM C39, ASTM D3665, AND ACI 214R, LATEST EDITION.
2. FREQUENCY OF SAMPLES FOR STRENGTH TESTING OF EACH CLASS OF CONCRETE SHALL BE:
 - a. ONCE EACH DAY A GIVEN CLASS IS PLACED.
 - b. ONCE FOR EACH 150 CYD OF EACH CLASS PLACED EACH DAY.
 - c. FOR SLABS OR WALLS LESS THAN OR EQUAL TO 9 3/4" THICK, SAMPLING SHALL BE ONCE FOR EACH 5000 SQ FT OF SLAB OR WALL SURFACE AREA (ONE SIDE ONLY) PLACED EACH DAY. FOR SLABS OR WALLS GREATER THAN 9 3/4" THICK, SAMPLING SHALL BE ONCE FOR EACH 2500 SQ FT OF SLAB OR WALL SURFACE AREA (ONE SIDE ONLY) PLACED EACH DAY.
3. CONCRETE TESTING SHALL BE THREE SETS OF CYLINDERS. ONE SET CONSISTS OF THREE 4 BY 8 IN CYLINDERS TESTED FOR COMPRESSION AT 7 DAYS AND THREE 4 BY 8 IN CYLINDERS AT 28 DAYS. CYLINDER AT 56 DAYS.
4. WHERE THE TOTAL VOLUME OF CONCRETE FOR A GIVEN CLASS OF CONCRETE WOULD BE LESS THAN FIVE TESTS, PROVIDE A TEST FOR EACH BATCH.
5. LABORATORY AND FIELD TECHNICIANS SHALL BE CERTIFIED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI "CONCRETE FIELD TESTING TECHNICIAN-GRADE 1" CERTIFICATION PROGRAM" OR THE REQUIREMENTS OF ASTM C1017 OR AN EQUIVALENT PROGRAM.
6. TEST REPORTS SHOULD BE PROMPTLY DISTRIBUTED TO THE OWNER, ARCHITECT, ENGINEER, GENERAL CONTRACTOR, SUB-CONTRACTORS, SUPPLIERS, AND BUILDING OFFICIAL TO ALLOW EITHER COMPLIANCE OR THE NEED FOR CORRECTIVE ACTION.
7. STRENGTH LEVEL OF AN INDIVIDUAL CLASS OF CONCRETE SHALL MEET THE FOLLOWING CRITERIA:
 - a. THE AVERAGE OF THREE CONSECUTIVE STRENGTH TESTS SHALL BE EQUAL TO OR EXCEED THE DESIGN STRENGTH, f_c .
 - b. THE AVERAGE OF THE STRENGTHS OF EACH TEST SHALL NOT FALL BELOW THE DESIGN STRENGTH, f_c , BY MORE THAN 500 PSI FOR $f_c \leq 5000$ PSI OR BY 0.1% FOR $f_c > 5000$ PSI.
 - c. IF THE CRITERIA ABOVE IS NOT MET, THREE CORE DRILLED SAMPLES IN THE AREA OF QUESTION SHALL BE TAKEN, AT THE EXPENSE OF THE GENERAL CONTRACTOR, FOR EACH STRENGTH TEST THAT FAILS TO MEET THE CRITERIA. TESTING OF CORE DRILLED SAMPLES SHALL BE IN ACCORDANCE TO ASTM C42.
8. CORE DRILLED SAMPLES SHALL BE TESTED NO EARLIER THAN 48 HOURS AND NOT LATER THAN 7 DAYS AFTER CURING.

REINFORCED CONCRETE (CONT):

I. PLACEMENT OF CONCRETE

1. READY-MIXED CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE TO ASTM C94.
2. CONCRETE SHALL BE CONVEYED FROM MIXER TO PLACE OF FINAL DEPOSIT BY METHODS THAT WILL PREVENT SEPARATION OR LOSS OF MATERIALS. CONCRETE SHALL BE DEPOSITED AT OR NEAR ITS FINAL POSITION BY THE USE OF CHUTES, TRUCKS, AND OTHER MEANS AND METHODS.
3. DO NOT ALLOW CONCRETE TO FREE FALL MORE THAN 3 FEET DURING PLACEMENT.
4. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED DURING PLACEMENT IN ACCORDANCE TO ACI 308R LATEST EDITION.
5. MECHANICALLY VIBRATE ALL CONCRETE DURING PLACEMENT TO AVOID AIR ENTRAPMENTS.
6. NO CONCRETE PLACEMENT IS PERMITTED WHEN THE TEMPERATURE OF FRESH CONCRETE IS GREATER THAN OR EQUAL TO 95°F.
7. NO CONCRETE PLACEMENT IS PERMITTED DURING RAIN FALL.
8. COLD WEATHER REQUIREMENTS:
 - a. WHEN THE AMBIENT TEMPERATURE IS BELOW 50°F, PLACEMENT OF CONCRETE SHALL BE IN ACCORDANCE TO ACI 308R.
 - b. ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND PROTECTING CONCRETE DURING FREEZING OR NEAR-FREEZING WEATHER.
 - c. ALL CONCRETE MATERIAL AND ALL REINFORCING, FORMS, FILLERS, AND GROUND WITH WHICH CONCRETE IS TO COME IN CONTACT SHALL BE FREE OF FROST.
9. HOT WEATHER REQUIREMENTS:
 - a. WHEN THE AMBIENT TEMPERATURE EQUALS OR EXCEEDS 80°F, PLACEMENT OF CONCRETE SHALL BE IN ACCORDANCE TO ACI 305R.
 - b. PROPER ATTENTION SHALL BE GIVEN TO CONCRETE MIX, PRODUCTION METHODS, HANDLING, PLACING, PROTECTION, CURING TO PREVENT EXCESSIVE CONCRETE TEMPERATURES OR OTHER DEFICIENCIES THAT COULD IMPAIR THE REQUIRED DESIGN STRENGTH.
 - c. NON-TOXIC EVAPORATION RETARDERS ARE ACCEPTABLE PROVIDED THE PRODUCT DOES NOT IMPAIR THE REQUIRED DESIGN STRENGTH WHEN USED. THE GENERAL CONTRACTOR MUST EXERCISE PROPER SAFETY MEASURES.
10. ALL EXPOSED CONCRETE SHALL HAVE A SMOOTH FINISH SURFACE. EXPOSED CONCRETE SURFACES WITH SPALLS, CHIPS, CRACKS, HONEYCOMBS, DISCOLORATION, AND OTHER IMPERFECTIONS SHALL BE PATCHED WITH A FAST-SETTING, READY TO USE, CEMENTITIOUS POLYMER-MODIFIED REPAIR MORTAR THAT SHALL MEET ALL THE FOLLOWING CRITERIA:
 - a. MINIMUM COMPRESSIVE STRENGTH = 5000 PSI @ 28 DAYS IN ACCORDANCE WITH ASTM C109
 - b. MINIMUM FLEXURAL STRENGTH = 1100 PSI @ 28 DAYS IN ACCORDANCE WITH ASTM C293
 - c. MINIMUM BOND STRENGTH = 1800 PSI @ 28 DAYS IN ACCORDANCE WITH ASTM C282
 - d. COLOR = CONCRETE GRAY
 - e. DENSITY = 140 PCF
 - f. TOLERANCES:
 - i. 1. ALL CONCRETE TOLERANCES SHALL COMPLY WITH ACI 117, "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS" LATEST EDITION.
 - ii. 2. ALL SLAB-ON-GRADES AND SUSPENDED FLOOR SLABS SHALL BE TESTED FOR FLOOR FLATNESS AND FLOOR LEVELNESS IN ACCORDANCE TO ASTM E1155 UTILIZING THE F-NUMBER METHOD. THE SLAB-ON-GRADE AND SUSPENDED FLOOR SLABS MEASURED F-NUMBERS SHALL MEET THE FOLLOWING CLASSIFICATION:
 - a. SPECIFIED OVERALL FLOOR FLATNESS (SOFI): 20
 - b. SPECIFIED OVERALL FLOOR LEVELNESS (SOFI): 20
 - c. MINIMUM LOCAL FLOOR LEVELNESS (MLF): 0.60"/SOF
 - d. MINIMUM LOCAL FLOOR LEVELNESS (MLF): 0.60"/SOF
 - f. F-NUMBERS SHALL BE MEASURED WITHIN 72 HOURS OF PLACING THE SLAB.
 - g. WHERE DEFICIENCIES ARE DETECTED, REMEDIATION TO THE DEFICIENT AREA WILL BE REQUIRED AT THE EXPENSE OF THE GENERAL CONTRACTOR. REMEDIAL PROCEDURES SUCH AS, BUT NOT LIMITED TO, GRINDING OR THE USE OF A SELF-LEVELING UNFILLMENT SHALL BE DETERMINED BY THE CONTRACTOR TO BRING THE DEFICIENT AREA IN COMPLIANCE WITH MINIMUM TOLERANCES.
 - h. IN ALL INSTANCES THE MINIMUM SUBBASE THICKNESS, BEAM DEPTHS AND WIDTHS, COLUMN DIMENSIONS, SHALL BE OBTAINED. COORDINATE SLAB FINISHES WITH ARCHITECTURAL PLANS.

K. PLACEMENT OF REINFORCEMENT

1. ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. REFERENCE "REINFORCING STEEL" NOTES FOR ADDITIONAL INFORMATION.
2. SLAB-ON-GRADE:
 - a. REINFORCEMENT SHALL BE CONTINUOUS ACROSS THE ENTIRE CONCRETE SURFACE UNLESS NOTED OTHERWISE.
 - b. PROVIDE 2 BARS, SAME SIZE AND SPACING AND IN THE APPLICABLE DIRECTION WHERE THE SLAB STOPS DOWN MORE THAN 3". THE 2 BARS SHALL LAP THE MAIN SLAB REINFORCING STEEL AS NEEDED.
3. GRADE BEAMS, CONTINUOUS WALL, FOOTINGS, AND SPREAD FOOTINGS:
 - a. REINFORCEMENT SHALL BE CONTINUOUS ACROSS THE ENTIRE PROFILE UNLESS NOTED OTHERWISE.
 - b. PROVIDE CORNER BARS, TOP AND BOTTOM, AT ALL BEAM CORNERS AND DEAD END BEAM INTERSECTIONS. REFERENCE APPLICABLE DETAILS FOR ADDITIONAL INFORMATION. BARS TO EQUAL SIZE AND QUANTITY OF THE NOTED BEAM STEEL BARS UNLESS NOTED OTHERWISE.
 - c. EXTEND THE SLAB REINFORCING STEEL, PERPENDICULAR TO BEAM, TO THE TOP OUTSIDE REINFORCING BAR OF THE PERIMETER BEAMS. START THE SLAB REINFORCING STEEL, PARALLEL TO THE BEAM, NOT MORE THAN 6" FROM THE TOP INSIDE REINFORCING BAR OF PERIMETER BEAMS.
 - d. VERTICAL REINFORCING STEEL SHALL BE TIED AND FIXED IN POSITION AT THE TOP AND BOTTOM AND AT INTERMEDIATE LOCATIONS, SPACED NOT GREATER THAN 18 INCHES ON CENTER.

L. DRILLED PIERS:

1. REINFORCEMENT SHALL BE CONTINUOUS ACROSS THE ENTIRE PROFILE UNLESS NOTED OTHERWISE.
2. SUSPENDED SLAB (ONE-WAY):
 - a. REINFORCEMENT SHALL BE CONTINUOUS ACROSS THE ENTIRE CONCRETE SURFACE. DESIGN REINFORCING IS PLACED PARALLEL TO THE DIRECTION OF SPAN. TENSILE REINFORCEMENT IS PROVIDED PERPENDICULAR TO THE DIRECTION OF THE SPAN.
 - b. WHERE LAP SPLICES OF BARS ARE REQUIRED, LOCATE BOTTOM BAR LAP SPLICES OVER CONCRETE BEAMS OR GIRDERS, AND LOCATE TOP BAR LAP SPLICES AT MIDSPAN IN BETWEEN BEAMS.
 - c. REFERENCE TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS.
3. SUSPENDED SLAB (TWO-WAY):
 - a. TOP AND BOTTOM REINFORCING MATS SHALL BE CONTINUOUS EACH WAY UNLESS NOTED OTHERWISE.
 - b. ADDITIONAL BARS ARE SHOWN ON THE DRAWINGS.
 - c. WHERE LAP SPLICES ARE REQUIRED, LOCATE BOTTOM BAR LAP SPLICES CENTERED TO THE COLUMN STRIPS, AND TOP BAR LAP SPLICES CENTERED TO THE MIDDLE STRIPS IN EACH DIRECTION.
4. BEAMS AND GIRDERS:
 - a. REFERENCE REINFORCING SCHEDULE FOR LONGITUDINAL BAR PLACEMENT. BARS ARE TO BE CONTINUOUS UNLESS NOTED OTHERWISE.
 - b. REFERENCE TYPICAL DETAILS FOR BAR LAP SPLICES. LOCATE LAP SPLICES OF BOTTOM BARS CENTERED OVER SUPPORTS, AND LOCATE TOP BAR LAP SPLICES AT MIDSPAN IN BETWEEN SUPPORTS.
 - c. REFERENCE DETAILS FOR ADDITIONAL REQUIREMENTS.
5. COLUMNS:
 - a. PROVIDE CONTINUOUS LONGITUDINAL REINFORCING EQUALLY SPACED.
 - b. WHEN REINFORCING LONGITUDINAL REINFORCING WITH A CLASS B TENSION LAP SPLICE.
 - c. REFERENCE DETAILS FOR ADDITIONAL REQUIREMENTS.
9. WALLS:
 - a. PROVIDE CONTINUOUS REINFORCING IN BOTH DIRECTIONS AND IN EACH FACE WHERE APPLICABLE.
 - b. AT HORIZONTAL CONSTRUCTION JOINTS (CONSTRUCTION LIFTS), VERTICAL BARS MUST PROJECT THE LAP SPLICE LENGTH AS SCHEDULED AS A MINIMUM LENGTH. THE GENERAL CONTRACTOR MUST COORDINATE BAR PLACEMENTS TO AVOID OVER-REINFORCING THE CONCRETE WALL.
 - c. REFERENCE DETAILS FOR ADDITIONAL INFORMATION.
10. DOWELS:
 - a. WALLS, PLASTERS, AND COLUMNS SHALL BE DOWELED TO THE SUPPORTING FOOTINGS WITH REINFORCEMENT AS SCHEDULED OR OF THE SAME SIZE, GRADE AND AT THE SAME SPACING AS THE VERTICAL REINFORCEMENT IN THE WALLS, PLASTERS, OR COLUMNS UNLESS NOTED OTHERWISE.

1. REINFORCING STEEL SHALL BE MAINTAINED ABOVE 50°F AT ALL TIMES.
2. CONCRETE, OTHER THAN HIGH-early STRENGTH CONCRETE, SHALL BE IN MOIST CONDITION FOR AT LEAST 7 DAYS.
3. HIGH-early STRENGTH CONCRETE SHALL BE IN MOIST CONDITION FOR AT LEAST 3 DAYS.
4. EXTERIOR CURING: ALL EXTERIOR CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE-FORMING CURING COMPOUND. THE LIQUID MEMBRANE-FORMING CURING COMPOUND SHALL MEET THE REQUIREMENTS OF ASTM C1315 WITH A MAXIMUM VOLATILE ORGANIC CONTENT (VOC) OF 700 g/L.
5. INTERIOR CURING: ALL INTERIOR CONCRETE SLABS SHALL BE CURED USING A REDUCED ODOR, THE LIQUID MEMBRANE-FORMING CURING COMPOUND THAT IS FURNISHED FROM HYDROCARBON RESINS. THE DISSIPATING LIQUID MEMBRANE-FORMING CURING COMPOUND SHALL MEET THE REQUIREMENTS OF ASTM C309 WITH A MAXIMUM VOLATILE ORGANIC CONTENT (VOC) OF 350 g/L. APPLY AT 400 SF/GALLON.
6. CURING COMPOUNDS SHALL BE PLACED WITHIN 4 HOURS AFTER PLACEMENT OF CONCRETE.
7. FOR POLISHED SLAB FINISHES, PROVIDE BURLAP MEMBRANES DURING ENTIRE CONSTRUCTION OF THE BUILDING. DO NOT PROVIDE CURING COMPOUND.

1. CONCRETE PROTECTION
2. SLAB PROTECTION:
 - a. FOR ALL MOTORIZED AND HYDRAULIC EQUIPMENT PREVENT FLUID LEAKS.
 - b. PROVIDE NON-MARKING TIRES ON RUBBER TIED VEHICLES OR EQUIP RUBBER TIRES WITH TIRE BOOTS MADE OF NYLON FABRIC.
 - c. PROVIDE MATS AT ALL ENTRANCES TO PREVENT MUD STAINS.
 - d. COVER SLAB PRIOR TO PAINTING. ALL SPILLS ARE TO BE CLEANED WITH SOAP AND WATER.

1. REINFORCING STEEL COVERAGE SHOULD CONFORM TO THE REQUIREMENTS OF THE ACI 318 (EDITION IN THE DESIGN CRITERIA) SECTION 7.7 AND THE DETAILS.
2. INCREASE COVER TO MAINTAIN THE MINIMUM SPECIFIED WHERE REINFORCING STEEL INTERSECTS FOR DIFFERENT MEMBER TYPES.
3. THE REINFORCING STEEL DETAILER SHALL ADJUST REINFORCING STEEL CASE SIZES AT INTERSECTING STRUCTURAL MEMBERS AS REQUIRED TO ALLOW CLEARANCE FOR INTERSECTING REINFORCING BAR LAYERS WITH MINIMUM SPECIFIED COVER.
4. MINIMUM CONCRETE COVER FOR REINFORCING AS FOLLOWS:
 - a. ALL CONCRETE CAST AND PERMANENTLY EXPOSED TO EARTH..... 3"
 - b. CONCRETE EXPOSED TO EARTH OR WEATHER:
 - i. #6 THROUGH #18..... 2"
 - ii. #5, #10 OR #31 AND SMALLER..... 1-1/2"
 - c. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
 - i. #14 THROUGH #18..... 1-1/2"
 - ii. #11 AND SMALLER..... 3/4"
 - iii. #11 AND SMALLER..... 1-1/2"

1. WALLS, PLASTERS, AND COLUMNS SHALL BE DOWELED TO THE SUPPORTING FOOTINGS WITH REINFORCEMENT AS SCHEDULED OR OF THE SAME SIZE, GRADE AND AT THE SAME SPACING AS THE VERTICAL REINFORCEMENT IN THE WALLS, PLASTERS, OR COLUMNS UNLESS NOTED OTHERWISE.

CLASSES OF CONCRETE MATRIX

CONCRETE USAGE	MINIMUM COMPRESSIVE STRENGTH, f_c	CONCRETE WEIGHT	EXPOSURE CLASS	MAXIMUM WATER/CEMENT RATIO	MAXIMUM AGGREGATE SIZE (IN)	MAXIMUM SLUMP (IN)	REMARKS
SHALLOW FOUNDATIONS							
SPREAD FOOTINGS	3000 PSI @ 28 DAYS	NWC	C1	0.5	1"	5"	
WALL FOOTINGS	3000 PSI @ 28 DAYS	NWC	C1	0.5	1"	5"	
SLAB-ON-GRADE	3000 PSI @ 28 DAYS	NWC	C1	0.5	1"	5"	
MISCELLANEOUS							
HOUSEKEEPING PADS	3000 PSI @ 28 DAYS	NWC	C1	0.5	1"	5"	
ALL OTHER CONCRETE	3000 PSI @ 28 DAYS	NWC	C1	0.5	1"	5"	

NOTES:

1. ALL CONCRETE COMPRESSIVE STRENGTHS NOTED IN THE TABLE ABOVE ARE THE MINIMUM COMPRESSIVE STRENGTH, f_c , AT 28-DAYS UNLESS NOTED OTHERWISE.
2. ALL MIXES SHALL HAVE A MINIMUM OF 5 BAGS (450S) OF CEMENTITIOUS MATERIAL PER CUBIC YARD REGARDLESS OF STRENGTH OBTAINED.
3. ALL CONCRETE SHALL BE CONSIDERED TO BE IN EXPOSURE F0, S0, P0, AND C0 ACCORDING TO ACI 318 UNLESS NOTED OTHERWISE IN TABLE ABOVE OR IN THE STRUCTURAL DRAWINGS.

1 CLASSES OF CONCRETE MATRIX SCHEDULE

NTS

REINFORCED CONCRETE (CONT):

11. TOPPING SLABS:

1. HOUSEKEEPING PADS:
 - a. PROVIDED WELDED WIRE REINFORCING 6X6-W2XW2.9 IN ALL TOPPING SLABS UNLESS NOTED OTHERWISE.
 - b. PROVIDED #3 AT 12" ON CENTER EACH WAY IN ALL HOUSEKEEPING PADS THAT SUPPORT MECHANICAL EQUIPMENT.

L. VAPOR RETARDER

1. REFERENCE DRAWINGS FOR LOCATION AND EXTENTS OF VAPOR RETARDERS. FOR SLAB-ON-GRADE FOUNDATIONS, A VAPOR RETARDER IS TO BE INSTALLED OVER APPROVED SELECT FILL UNLESS NOTED OTHERWISE.
2. FOR ALL CONDITIONS, THE VAPOR RETARDER SHALL CONFORM TO ASTM E1745, CLASS A AND SHALL HAVE A MINIMUM WATER VAPOR PERMEANCE OF 0.01 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E96. THE VAPOR RETARDER SHALL NOT BE LESS THAN 15 MILS THICK.
3. PRE-APPROVED PRODUCTS:
 - a. STEGO WRAP 15 MIL VAPOR BARRIER (CLASS A).
 - b. OTHERS: PROPOSED BY SUBMITTAL PROCESS.
4. INSTALLATION:
 - a. LAY SHEETS SMOOTHLY, STRETCH AND WEIGHT EDGES, LAP JOINTS AND SEAL WITH TAPE AS SPECIFIED BY THE VAPOR RETARDER MANUFACTURER. TURN THE RETARDER UP AT WALLS AND AT ALL PIPES, ABUTMENTS, ETC., AND TAPE AND SEAL AT PENETRATIONS AND AT EDGES AS SPECIFIED BY THE VAPOR RETARDER MANUFACTURER.

5. PATCHING:

1. PATCH ALL PUNCTURES WITH A MINIMUM OVERLAP OF 6" IN ALL DIRECTIONS AND TAPE AROUND THE ENTIRE PERIMETER OF REPAIR.

M. PRE-INSTALLATION CONFERENCE

1. AT LEAST 30 DAYS PRIOR TO THE START OF THE CONCRETE CONSTRUCTION SCHEDULE, THE CONTRACTOR SHALL CONDUCT A MEETING TO REVIEW THE PROPOSED MIX DESIGNS AND TO DISCUSS THE REQUIRED METHODS AND PROCEDURES TO ACHIEVE THE REQUIRED CONCRETE CONSTRUCTION. THE CONTRACTOR SHALL SEND A PRE-INSTALLATION CONFERENCE AGENDA TO ALL ATTENDEES 20 DAYS PRIOR TO THE SCHEDULED DATE OF THE CONFERENCE.
2. THE CONTRACTOR SHALL REQUIRE RESPONSIBLE REPRESENTATIVES OF EVERY PARTY CONCERNED WITH THE CONCRETE WORK TO ATTEND THE CONFERENCE, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - a. GENERAL CONTRACTOR'S SUPERINTENDENT
 - b. LABORATORY RESPONSIBLE FOR CONCRETE MIXES AND/OR FIELD QUALITY CONTROL
 - c. READY-MIX CONCRETE PRODUCER
 - d. CONCRETE SUB-CONTRACTOR
 - e. JOINT FILLING APPLICATOR
3. MINUTES OF THE MEETING SHALL BE RECORDED, TYPED AND PRINTED BY THE CONTRACTOR AND DISTRIBUTED TO ALL CONCERNED PARTIES, INCLUDING THE OWNER'S REPRESENTATIVE, THE ARCHITECT, AND THE STRUCTURAL ENGINEER WITHIN FIVE DAYS OF THE MEETING.

N. CONCRETE SUB-CONTRACTOR QUALIFICATION

1. THE CONCRETE SUB-CONTRACTOR SHALL INCLUDE IN THEIR BID PACKAGE TO THE GENERAL CONTRACTOR SUFFICIENT DATA THAT CLEARLY INDICATES THE CONCRETE CONTRACTORS ABILITY TO SUCCESSFULLY PERFORM THE WORK AND TO ACHIEVE THE TOLERANCES SPECIFIED IN THIS SECTION.

O. CONCRETE CURING

1. CONCRETE SHALL BE MAINTAINED ABOVE 50°F AT ALL TIMES.
2. CONCRETE, OTHER THAN HIGH-early STRENGTH CONCRETE, SHALL BE IN MOIST CONDITION FOR AT LEAST 7 DAYS.
3. HIGH-early STRENGTH CONCRETE SHALL BE IN MOIST CONDITION FOR AT LEAST 3 DAYS.
4. EXTERIOR CURING: ALL EXTERIOR CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE-FORMING CURING COMPOUND. THE LIQUID MEMBRANE-FORMING CURING COMPOUND SHALL MEET THE REQUIREMENTS OF ASTM C1315 WITH A MAXIMUM VOLATILE ORGANIC CONTENT (VOC) OF 700 g/L.
5. INTERIOR CURING: ALL INTERIOR CONCRETE SLABS SHALL BE CURED USING A REDUCED ODOR, THE LIQUID MEMBRANE-FORMING CURING COMPOUND THAT IS FURNISHED FROM HYDROCARBON RESINS. THE DISSIPATING LIQUID MEMBRANE-FORMING CURING COMPOUND SHALL MEET THE REQUIREMENTS OF ASTM C309 WITH A MAXIMUM VOLATILE ORGANIC CONTENT (VOC) OF 350 g/L. APPLY AT 400 SF/GALLON.
6. CURING COMPOUNDS SHALL BE PLACED WITHIN 4 HOURS AFTER PLACEMENT OF CONCRETE.
7. FOR POLISHED SLAB FINISHES, PROVIDE BURLAP MEMBRANES DURING ENTIRE CONSTRUCTION OF THE BUILDING. DO NOT PROVIDE CURING COMPOUND.

P. CONSTRUCTION JOINTS IN SLAB-ON-GRADE

1. FORM 18" WEAKENED-JANE CONTRACTION JOINTS SPACED NOT FURTHER THAN 15'-0" ON CENTER EACH WAY. SECTION CONTRA INTO AREAS AS INDICATED IN THE DRAWINGS.
2. SUPPORT CONTRACTION JOINTS FOR A DEPTH EQUAL TO, TO AT LEAST 1/4 OF THE CONCRETE THICKNESS.
3. SAWED JOINTS: ALL SAW CUTTING SHALL BE ACCOMPLISHED WITH A SOFT-CUT SAW AS SOON AS THE SLAB WILL SUPPORT THE WEIGHT OF THE SAW AND OPERATOR.
4. CONCRETE DUST SHALL BE REMOVED COMPLETELY AND IMMEDIATELY.
5. ALL CONTRACTION JOINTS SHALL BE CAULKED WITH AN EFFECTIVE SEALANT THAT CAN BOND TO THE CONCRETE, IS IMPERMEABLE, AND ABLE TO WITHSTAND THERMAL EXPANSION AND CONTRACTION.

Q. CONCRETE PROTECTION

1. SLAB PROTECTION:
 - a. FOR ALL MOTORIZED AND HYDRAULIC EQUIPMENT PREVENT FLUID LEAKS.
 - b. PROVIDE NON-MARKING TIRES ON RUBBER TIED VEHICLES OR EQUIP RUBBER TIRES WITH TIRE BOOTS MADE OF NYLON FABRIC.
 - c. PROVIDE MATS AT ALL ENTRANCES TO PREVENT MUD STAINS.
 - d. COVER SLAB PRIOR TO PAINTING. ALL SPILLS ARE TO BE CLEANED WITH SOAP AND WATER.

R. CONCRETE COVER

1. REINFORCING STEEL COVERAGE SHOULD CONFORM TO THE REQUIREMENTS OF THE ACI 318 (EDITION IN THE DESIGN CRITERIA) SECTION 7.7 AND THE DETAILS.
2. INCREASE COVER TO MAINTAIN THE MINIMUM SPECIFIED WHERE REINFORCING STEEL INTERSECTS FOR DIFFERENT MEMBER TYPES.
3. THE REINFORCING STEEL DETAILER SHALL ADJUST REINFORCING STEEL CASE SIZES AT INTERSECTING STRUCTURAL MEMBERS AS REQUIRED TO ALLOW CLEARANCE FOR INTERSECTING REINFORCING BAR LAYERS WITH MINIMUM SPECIFIED COVER.
4. MINIMUM CONCRETE COVER FOR REINFORCING AS FOLLOWS:
 - a. ALL CONCRETE CAST AND PERMANENTLY EXPOSED TO EARTH..... 3"
 - b. CONCRETE EXPOSED TO EARTH OR WEATHER:
 - i. #6 THROUGH #18..... 2"
 - ii. #5, #10 OR #31 AND SMALLER..... 1-1/2"
 - c. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
 - i. #14 THROUGH #18..... 1-1/2"
 - ii. #11 AND SMALLER..... 3/4"
 - iii. #11 AND SMALLER..... 1-1/2"

POST-INSTALLED ANCHORS:

GENERAL NOTES

VERIFICATION AND INSPECTION OF STRUCTURAL STEEL WELDING					
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	SPECIAL INSPECTOR		REFERENCE STANDARD	IBC REFERENCE
		QCI	QAI		
1. INSPECTION TASK PRIOR TO WELDING:					
YES	a. WELDING PROCEDURES SPECIFICATIONS (WPS) AVAILABLE	P	P		
YES	b. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	PP			
YES	c. MATERIAL IDENTIFICATION (TYPE/GRADE)	OO			
YES	d. WELDER IDENTIFICATION SYSTEM	OO			
YES	e. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) 1) JOINT PREPARATION 2) DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) 3) CLEANLINESS (CONDITION OF STEEL SURFACES) 4) TACKING (TACK WELD QUALITY AND LOCATION) 5) SPACKING TYPE AND FIT (IF APPLICABLE)	OO		AISC 360-10 TABLE N5.4-1, AWS D1.1	1705.2.1
YES	f. CONFIGURATION AND FINISH OF ACCESS HOLES	OO			
YES	g. FIT-UP OF FILLET WELDS 1) DIMENSIONS (ALIGNMENT, GAPS AT ROOT) 2) CLEANLINESS (CONDITION OF STEEL SURFACES) 3) TACKING (TACK WELD QUALITY AND LOCATION)	OO			
YES	h. CHECK WELDING EQUIPMENT	O-			
YES	2. INSPECTION TASK DURING WELDING:				
YES	a. USE OF QUALIFIED WELDERS	OO			
YES	b. CONTROL AND HANDLING OF WELDING CONSUMABLES 1) PACKING 2) CLOSURE CONTROL	OO			
YES	c. NO WELDING OVER CRACKED TACK WELDS	OO			
YES	d. ENVIRONMENTAL CONDITIONS 1) WIND SPEED WITHIN LIMITS 2) PRECIPITATION AND TEMPERATURE	OO			
YES	e. WPS FOLLOWED 1) SETTINGS ON WELDING EQUIPMENT 2) TRAVEL SPEED 3) SELECTED WELDING MATERIALS 4) SHIELDING GAS TYPE/FLOW RATE 5) PREHEAT APPLIED 6) INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) 7) PROPER POSITION (F, V, H, OH)	OO		AISC 360-10 TABLE N5.4.2, AWS D1.1	1705.2.1
YES	f. WELDING TECHNIQUES 1) INTERPASS AND FINAL CLEANING 2) EACH PASS WITHIN PROFILE LIMITATIONS 3) EACH PASS MEETS QUALITY REQUIREMENTS	OO			
YES	3. INSPECTION TASK AFTER WELDING:				
YES	a. WELDS CLEANED	OO			
YES	b. SIZE, LENGTH AND LOCATION OF WELDS	PP			
YES	c. WELD MEET VISUAL ACCEPTANCE CRITERIA 1) CRACK PROHIBITION 2) WELD-BASE METAL FUSION 3) CRATER CROSS SECTION 4) WELD PROFILES 5) WELD SIZE 6) UNDERCUT 7) POROSITY	PP		AISC 360-10 TABLE N6.4-3, AWS D1.1	1705.2.1
YES	ARC STRIKES d.	PP			
YES	k. AREA e.	PP			
YES	REMOVED AND WELD TABS REMOVED f.	PP			
YES	g. REPAIR ACTIVITIES	PP			
YES	h. DOCUMENT ACCEPTANCE OR REJECTION OF WELD JOINT OR MEMBER	PP			

NOTES:

1. QCI = FABRICATOR'S OR ERECTOR'S QUALITY CONTROL. INSPECTOR RESPONSIBLE FOR WORK PERFORMED IS IN COMPLIANCE WITH THE SHOP DRAWINGS, ERECTION DRAWINGS, REFERENCE SPECIFICATIONS, CODES AND STANDARDS.

QAI = THE OWNER'S APPROVED AGENCY'S QUALITY ASSURANCE INSPECTOR (SPECIAL INSPECTOR) RESPONSIBLE FOR INSPECTION OF FABRICATED ITEMS. INSPECTION OF THE ERECTED STEEL SYSTEM, REVIEW TEST REPORTS AND CERTIFICATIONS, ITEMS NOTED IN THE TABLE ABOVE, AND FURNISHES INSPECTIONS, REPORTS, AND NONDESTRUCTIVE TESTING (NOT) REPORTS.

O = OBSERVE THESE ITEMS IN A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.

P = PERFORM THE TASK FOR EACH WELDED JOINT OR MEMBER.

2. THE QAI IS NOT REQUIRED TO INSPECT FABRICATED ITEMS IF THE STEEL FABRICATOR IS DEEMED AN APPROVED FABRICATOR.

3. WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH THE QCI AND QAI, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QAI SO THAT THE INSPECTION FUNCTION IS PERFORMED BY ONLY ONE PARTY.

4. ALL FIELD WELDING, COMPLETE AND PARTIAL JOINT PENETRATION WELDS SHALL BE SUBJECTED TO NONDESTRUCTIVE TESTING (NOT) IN ACCORDANCE WITH AWS D1.1. ACCEPTANCE CRITERIA SHALL BE IN ACCORDANCE WITH THE AWS D1.1.

5. ACCEPTABLE NONDESTRUCTIVE TESTING (NOT) METHODS AS PER THE AISC 360 SPECIFICATION ARE AS FOLLOWS:

a. ULTRASONIC TESTING (UT)

b. MAGNETIC PARTICLE TESTING (MT)

c. PENETRANT TESTING (PT)

d. RADIOGRAPHIC TESTING (RT)

6. THE SPECIAL INSPECTOR SHALL BE RESPONSIBLE FOR DETERMINING THE APPROPRIATE NOT METHOD FOR EACH WELD.

7. ALL NOT PERFORMED SHALL BE DOCUMENTED INTO A REPORT AND SHALL INCLUDE THE FOLLOWING:

a. LOCATION OF THE TESTED WELD

b. PIECE MARK

c. LOCATION OF THE PIECE

VERIFICATION AND INSPECTION OF STEEL FRAMING					
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	SPECIAL INSPECTOR		REFERENCE STANDARD	IBC REFERENCE
		QCI	QAI		
YES	1. VERIFY FABRICATED STEEL IS IN COMPLIANCE WITH THE SHOP DRAWINGS	PO			
YES	2. VERIFY ERECTED STEEL IS IN COMPLIANCE WITH THE ERECTION DRAWINGS	PO			
YES	3. INSPECTION DURING PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS	-P		AISC 360-10 N5.7	1705.2.1
YES	4. VERIFY DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM AND THE EXTENT OR DEPTH OF EMBEDMENT INTO CONCRETE PRIOR TO PLACEMENT OF CONCRETE	-P			

NOTES:

1. QCI = FABRICATOR'S OR ERECTOR'S QUALITY CONTROL. INSPECTOR RESPONSIBLE FOR WORK PERFORMED IS IN COMPLIANCE WITH THE SHOP DRAWINGS, ERECTION DRAWINGS, REFERENCE SPECIFICATIONS, CODES AND STANDARDS.

QAI = THE OWNER'S APPROVED AGENCY'S QUALITY ASSURANCE INSPECTOR (SPECIAL INSPECTOR) RESPONSIBLE FOR INSPECTION OF FABRICATED ITEMS. INSPECTION OF THE ERECTED STEEL SYSTEM, REVIEW TEST REPORTS AND CERTIFICATIONS, ITEMS NOTED IN THE TABLE ABOVE, AND FURNISHES INSPECTIONS, REPORTS, AND NONDESTRUCTIVE TESTING (NOT) REPORTS.

O = OBSERVE THESE ITEMS IN A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.

P = PERFORM THE TASK FOR EACH STEEL ELEMENT.

2. THE QAI IS NOT REQUIRED TO INSPECT FABRICATED ITEMS IF THE STEEL FABRICATOR IS DEEMED AN APPROVED FABRICATOR.

3. WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH THE QCI AND QAI, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QAI SO THAT THE INSPECTION FUNCTION IS PERFORMED BY ONLY ONE PARTY.

4. AS A MINIMUM, THE DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR RODS OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE SHALL BE VERIFIED PRIOR TO PLACEMENT OF CONCRETE.

VERIFICATION AND INSPECTION OF STRUCTURAL STEEL BOLTING					
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	SPECIAL INSPECTOR		REFERENCE STANDARD	IBC REFERENCE
		QCI	QAI		
1. INSPECTION TASK PRIOR TO BOLTING:					
YES	a. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	OP			
YES	b. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	OO			
YES	c. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	OO			
YES	d. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O	AISC 360-10 TABLE N5.6-1	1705.2.1
YES	e. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FINISH SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	OO			
YES	f. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL, OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	PO			
YES	g. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	OO			
YES	2. INSPECTION TASK DURING BOLTING:				
YES	a. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	OO			
YES	b. JOINT BROUGHT TO THE SNUG-TIGHT POSITION CONDITION PRIOR TO THE PRETENSIONING OPERATION	OO		AISC 360-10 TABLE N5.6-2	1705.2.1
YES	c. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	OO			
YES	d. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	OO			
YES	3. INSPECTION TASK AFTER BOLTING:				
YES	a. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	PP		ASC 360-10 TABLE N5.6.3	1705.2.1

NOTES:

1. QCI = FABRICATOR'S OR ERECTOR'S QUALITY CONTROL. INSPECTOR RESPONSIBLE FOR WORK PERFORMED IS IN COMPLIANCE WITH THE SHOP DRAWINGS, ERECTION DRAWINGS, REFERENCE SPECIFICATIONS, CODES AND STANDARDS.

QAI = THE OWNER'S APPROVED AGENCY'S QUALITY ASSURANCE INSPECTOR (SPECIAL INSPECTOR) RESPONSIBLE FOR INSPECTION OF FABRICATED ITEMS. INSPECTION OF THE ERECTED STEEL SYSTEM, REVIEW TEST REPORTS AND CERTIFICATIONS, ITEMS NOTED IN THE TABLE ABOVE, AND FURNISHES INSPECTIONS, REPORTS, AND NONDESTRUCTIVE TESTING (NOT) REPORTS.

O = OBSERVE THESE ITEMS IN A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.

P = PERFORM THE TASK FOR EACH BOLTED CONNECTION.

2. THE QAI IS NOT REQUIRED TO INSPECT FABRICATED ITEMS IF THE STEEL FABRICATOR IS DEEMED AN APPROVED FABRICATOR.

3. WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH THE QCI AND QAI, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QAI SO THAT THE INSPECTION FUNCTION IS PERFORMED BY ONLY ONE PARTY.

VERIFICATION AND INSPECTION OF WIND-RESISTING COMPONENTS					
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	INSPECTION FREQUENCY		REFERENCE STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
YES	1. ROOF CLADDING	-	X	-	
YES	2. WALL CLADDING	-	X	-	1705.10.3

NOTES:

1. PERIODIC SPECIAL INSPECTION OF WIND-RESISTING COMPONENTS IS REQUIRED IF ONE OF THE FOLLOWING CRITERIA IS MET:

a. IN WIND EXPOSURE B, WHERE $V_{ult} \geq 120$ MPH

b. IN WIND EXPOSURE C OR D, WHERE $V_{ult} \geq 110$ MPH

VERIFICATION AND INSPECTION OF SOILS					
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	INSPECTION FREQUENCY		REFERENCE STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
YES	1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	-	X	-	
YES	2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIALS	-	X	-	
YES	3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	-	X	-	1705.6
YES	4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	-	-	
YES	5. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIALS	-	X	-	

NOTES:

1. SPECIAL INSPECTION AND TESTING PROCEDURES OF EXISTING SOIL CONDITIONS, EXCAVATION, FILL PLACEMENT, AND LOAD-BEARING REQUIREMENTS SHALL BE BASED ON THE APPROVED GEOTECHNICAL REPORT AND THE CONTRACT DOCUMENTS.

VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION					
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	INSPECTION FREQUENCY		REFERENCE STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
YES	1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT	-	X	A313B, 12.1.1-12.1.7	1910.4
YES	2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 2b	-	-	AWS D14/A313B, 13.2	-
YES	3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED	-	X	A313B, 8.1.3, 21.2.8	1908.5, 1909.1
YES	4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDEN CONCRETE MEMBERS:				
	a. SPECIAL INSPECTOR CERTIFIED A308/318 ADHESIVE ANCHOR INSTALLER	X	-		
YES	b. ADHESIVE ANCHOR INSTALLATION REPORT INDICATING CONFORMANCE TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI)	X	-	A313B, APPENDIX D	1909.1
	c. INSTALLATION OF MECHANICAL ANCHORS	X	-		
	d. POST-INSTALLED ANCHOR INSTALLERS CERTIFICATIONS AVAILABLE	X	-		
	5. VERIFYING USE OF REQUIRED DESIGN MIX	-	X	A313B, 25.4, 5.2-5.4	1942.1, 1912.1, 1913
YES	6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	-	ASTM C172, 25.4, 318-5.6, 5.8	1910.10
YES	7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	-	ACI 318, 5.9, 5.10	1910.6, 1910.7, 1910.8
YES	8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	-	X	ACI 318, 5.11-5.13	1910.9
NO	9. INSPECTION OF PRESTRESSED CONCRETE:				
	a. APPLICATION OF PRESTRESSING FORCES	X	-	A313B, 18.20	-
	b. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC FORCE-RESISTING SYSTEM	X	-	A313B, 18.184	-
YES	10. ERECTION OF PRECAST CONCRETE MEMBERS	-	X	A313B, CH. 9	-
NO	11. VERIFICATION OF NUTS/CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	-	X	A313B, 6.2	-
YES	12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	-	X	A313B, 8.1.1	-

VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL					
SPECIAL INSPECTION	VERIFICATION AND INSPECTION TASK	SPECIAL INSPECTOR		REFERENCE STANDARD	IBC REFERENCE
		QCI	QAI		
1. INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT					
YES	a. VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS	PP		SIX QA/QC TABLE 1.1	1705.2.2
YES	b. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND ACCESSORIES DECK	P	P		
	2. INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT				
YES	a. VERIFY COMPLIANCE OF DECK AND ALL ACCESSORIES INSTALLATION WITH CONSTRUCTION DECK DOCUMENTS	P	P		
YES	b. VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS	-	P	SIX QA/QC TABLE 1.2	1705.2.2
YES	c. DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES	P	P		
YES	3. INSPECTION OR EXECUTION TASKS PRIOR TO WELDING				
YES	a. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	O	O	SIX QA/QC TABLE 1.3	1705.2.2
YES	b. MANUFACTURER CERTIFICATIONS FOR CONSUMABLES AVAILABLE WELDING	O	O		
YES	c. MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O		
YES	d. CHECK WELDING EQUIPMENT	O	O		
YES	4. INSPECTION OR EXECUTION TASKS DURING WELDING				
YES	a. USE OF QUALIFIED WELDERS	O	O		
YES	b. CONTROL AND HANDLING OF WELDING CONSUMABLES	O	O	SIX QA/QC TABLE 1.4	1705.2.2
YES	c. ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)	O	O		
YES	d. WPS FOLLOWED	O	O		
	5. INSPECTION OR EXECUTION TASKS AFTER WELDING				
YES	a. VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDE-LAP AND PERIMETER WELDS	P	P	SIX QA/QC TABLE 1.5	1705.2.2
YES	b. WELDS MEET VISUAL ACCEPTANCE CRITERIA	P	P		
YES	c. VERIFY REPAIR ACTIVITIES	P	P		
YES	d. DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	P	P		
	6. INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING				
YES	a. MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	O	O	SIX QA/QC TABLE 1.6	1705.2.2
YES	b. PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	O	O		
YES	c. PROPER STORAGE FOR MECHANICAL FASTENERS	O	O		
	7. INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING				
YES	a. FASTENERS ARE POSITIONED AS REQUIRED	O	O	SIX QA/QC TABLE 1.7	1705.2.2
YES	b. FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	O	O		
	8. INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING				
YES	a. CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS	P	P		
YES	b. CHECK SPACING, TYPE, AND INSTALLATION OF SIDE-LAP FASTENERS	P	P	SIX QA/QC TABLE 1.8	1705.2.2
YES	c. CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS	P	P		
YES	d. VERIFY REPAIR ACTIVITIES	P	P		
YES	e. DOCUMENT ACCEPTANCE OR REJECTION OF FASTENERS MECHANICAL	P	P		

NOTES:

1. QCI = INSTALLER'S QUALITY CONTROL. INSPECTOR RESPONSIBLE FOR CONFIRMING THAT THE MATERIAL PROVIDED AND WORK PERFORMED MEET THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS, INSTALLATION DRAWINGS, SHOP DRAWINGS, DESIGN DOCUMENTS, AND REFERENCE STANDARDS.

QAI = THE OWNER'S APPROVED AGENCY'S QUALITY ASSURANCE INSPECTOR (SPECIAL INSPECTOR) RESPONSIBLE FOR INSPECTION OF MATERIALS, INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS AND CONFIRM COMPLIANCE WITH CONSTRUCTION DOCUMENTS AND REFERENCE STANDARDS.

O = OBSERVE THESE ITEMS ON AN INTERMITTENT BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.

P = PERFORM THESE TASKS PRIOR TO FINAL ACCEPTANCE FOR EACH ITEM OR ELEMENT.

2. WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH THE QCI AND QAI, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QAI SO THAT THE INSPECTION FUNCTION IS PERFORMED BY ONLY ONE PARTY.

PRE-MANUFACTURED SUPERSTRUCTURE :

- DESIGN CRITERIA
INTERNATIONAL BUILDING CODE (IBC) 2021 EDITION
ASC7.98
BUILDING CODE FOR THE CITY OF CON EDINBURG, TEXAS
MAXIMUM ALLOWABLE HORIZONTAL DRIFT OF STRUCTURE = H/400
WHERE H = MEAN HEIGHT OF STRUCTURE
DESIGN WIND SPEED = 105 MPH, EXPOSURE "C"
MINIMUM COLLATERAL LOAD = 10 PSF PLUS ROOF TOP UNITS
- A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE OF TEXAS SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PREFABRICATED METAL BUILDING MEMBERS AND THEIR CONNECTIONS. THIS WORK SHALL ALSO INCLUDE ALL MEMBERS AND BRACES REQUIRED TO BRACE MASONRY WALLS.
- ALL DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER AND SHALL BE SUBMITTED FOR RECORD PURPOSES UPON REQUEST.
- THE SUPPLIER SHALL SUBMIT A SEALED LETTER STATING DESIGN CRITERIA FOR ALL WORK AND CERTIFYING THAT ALL DESIGNS ARE IN COMPLIANCE WITH APPLICABLE CODES.
- ALL ANCHOR BOLTS SHALL BE DESIGNED BY THE METAL BUILDING SUPPLIER AND SUPPLIED BY THE CONTRACTOR. ALL ANCHOR BOLTS SHALL CONFORM TO ASTM A308. SUBMIT MILL CERTIFICATES FOR ALL BOLTS.
- ALL BOLTS FOR STRUCTURAL CONNECTIONS OF BEAMS, GIRDERS, PURLINS, COLUMNS, BRACES, ETC. SHALL BE OF AMERICAN ORIGIN. NO EXCEPTIONS. SUBMIT MILL CERTIFICATES FOR ALL BOLTS.
- ALL A325 BOLTS SHALL BE FULLY TENSIONED USING THE TURN OF THE NUT METHOD.
- PROVIDE PINNED BASE CONNECTION FROM COLUMN TO FOUNDATION.
- ALL BOLTS IN THE METAL BUILDING SHALL BE INSPECTED BY THE TESTING LAB TO CONFIRM PROPER TENSION. THE TESTING LAB SHALL INSPECT EACH AND EVERY BOLT ON THE PROJECT USING A TORQUE WRENCH.
- SUBMIT WRITTEN REPORTS TO THE ARCHITECT.
- THE MANUFACTURER'S ENGINEER MUST PERFORM SITE OBSERVATIONS DURING THE COURSE OF THE METAL BUILDING CONSTRUCTION TO CONFIRM THAT THE WORK IS PROGRESSING IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SHOP DRAWINGS. THE CONTRACTOR SHALL MAKE ALL THE CONTRACTOR SHALL MAKE ALL CORRECTIVE WORK REQUIRED TO MAKE ALL NON-COMPLIANT ITEMS ACCEPTABLE TO THE ENGINEER PRIOR TO CONTINUING WITH ANY FINISH WORK. AT THE END OF THE JOB, THE MANUFACTURER'S REGISTERED TEXAS P.E. MUST SUBMIT A SEALED LETTER TO THE OWNER AND ARCHITECT STATING THAT THE DESIGN AND CONSTRUCTION OF THE METAL BUILDING IS IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND ALL APPLICABLE CODES.
- THIS FOUNDATION HAS BEEN DESIGNED USING ASSUMED REACTIONS FROM THE PRE-ENGINEERED BUILDING COMPONENTS AND IS FOR BID PURPOSES ONLY. THE CONTRACTOR SHALL SUBMIT BASE CONNECTION DETAILS (SIZE AND THICKNESS BASE PLATE AND DIAMETER AND LENGTH ANCHOR BOLTS) AND REACTIONS OF THE BUILDING FRAMES TO THE ENGINEER PRIOR TO CONSTRUCTION SO THE DESIGN ASSUMPTIONS CAN BE VERIFIED. DEPTH OF ANCHOR BOLTS SHALL BE SUFFICIENT.
- ANY ADDITIONAL COST OF FOUNDATION WORK REQUIRED BY REVISIONS OF THE FOUNDATION DESIGN AFTER PRE-ENGINEERED BUILDING REACTIONS ARE SUBMITTED SHALL BE BY OTHERS.



TEXAS ARCHITECT
FIRM No. BR4247
WWW.CG5ARCHITECT.COM

SEAL:

ECISD HIGH SCHOOL
ATHLETIC
MULTI-USE
BUILDING
25-74

EDINBURG
NORTH HIGH
SCHOOL

3101 N
Closner Blvd,
Edinburg, TX
78541

CLIENT:
EDINBURG CISD

REVISION:

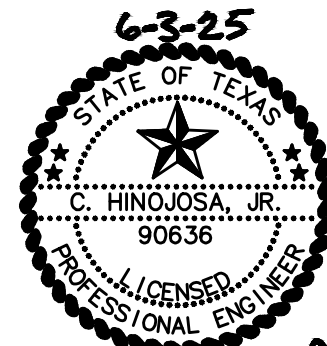
No.	Description	Date

PROJECT #:
DRAWN BY:
CHECKED BY:
DATE: 4/28/25

GENERAL
NOTES

ADDENDUM #2

S1.2



CHLH
ENGINEERING, LLC
TBPE FIRM No. F-8719
701 S. 15th STREET McALLEN, TX. 78501
(956) 687-5560



TEXAS ARCHITECT
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SEAL:

ECISD HIGH
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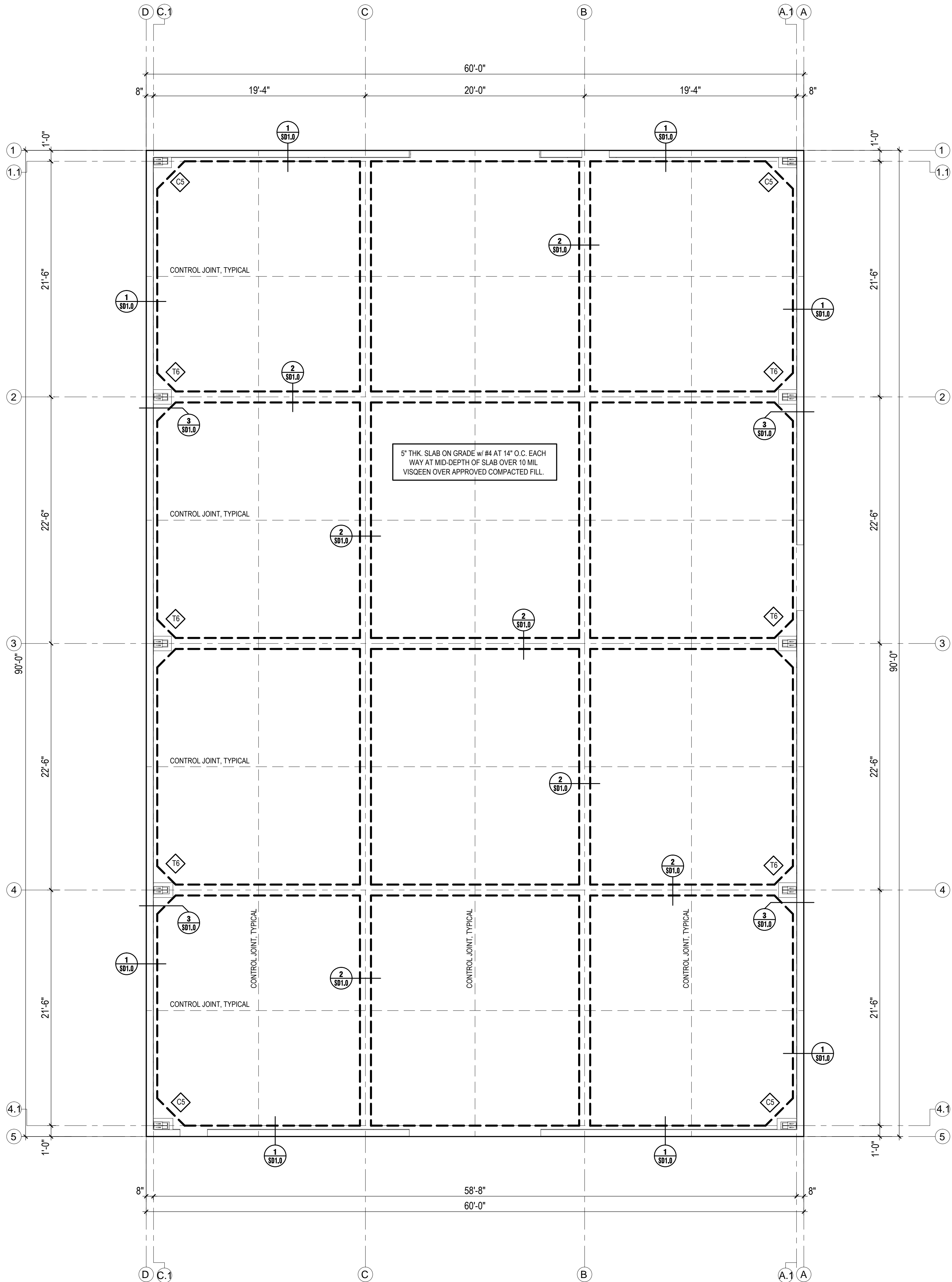
REVISION:		
No.	Description	Date

PROJECT #:
DRAWN BY:
CHECKED BY:
DATE: 4/28/25

FOUNDATION
PLAN

ADDENDUM #2

S2.0

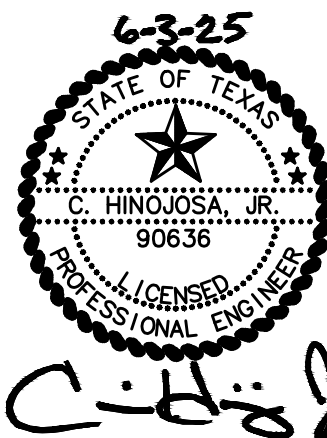


FOUNDATION NOTES:

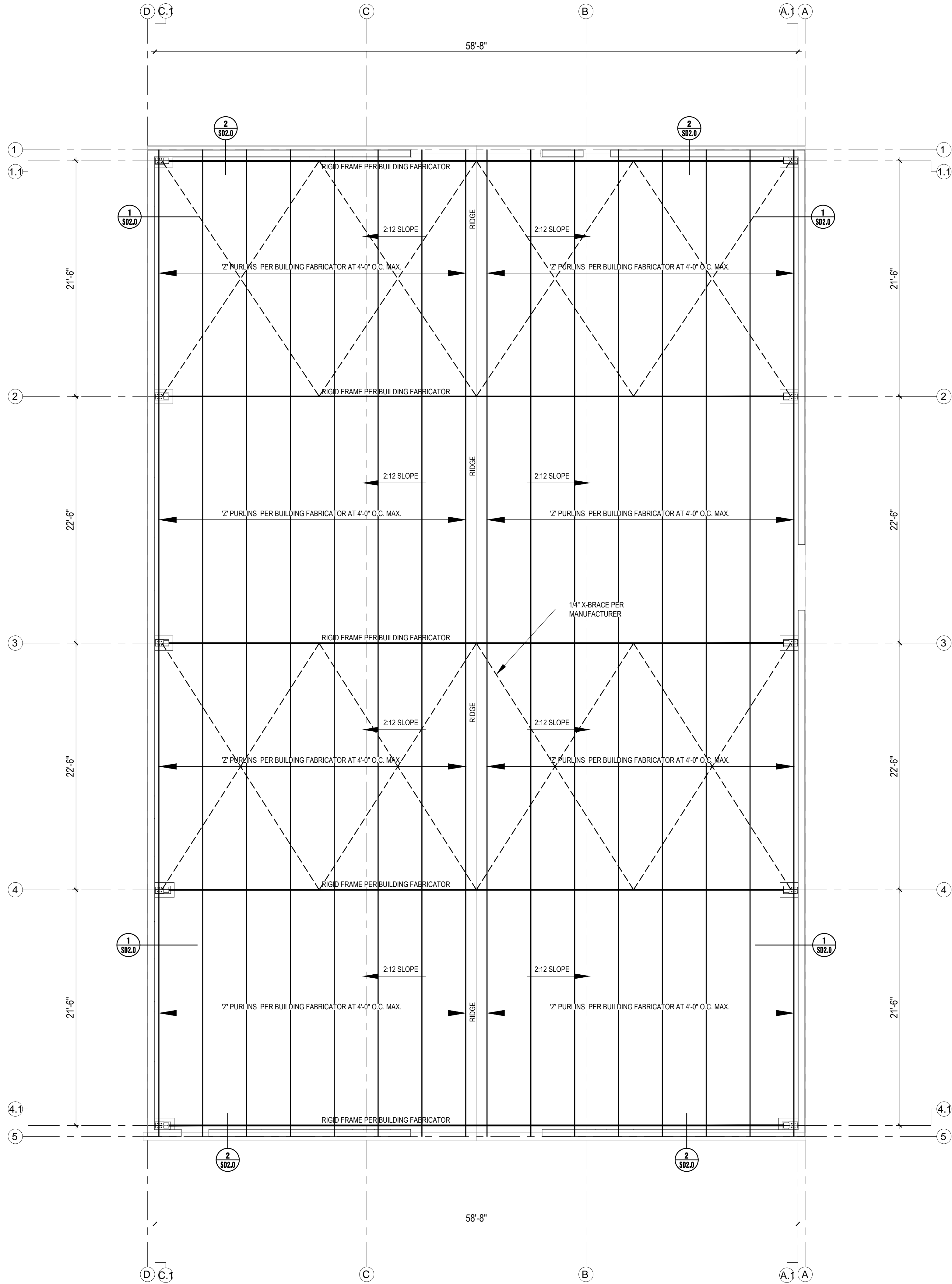
- SEE SHEET S1.0, S1.1, S1.2 & S1.3 FOR GENERAL NOTES.
- FOR TYPICAL DETAILS SEE SHEETS SD1.0 & SD1.1
- CONTRACTOR/SUBCONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING ANY WORK. THE CONTRACTOR AND OR SUBCONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT AND ENGINEER BEFORE THE WORK HAS BEGUN.
- REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DIMENSIONS.
- REFER TO ARCHITECTURAL PLANS FOR FLOOR DRAIN LOCATIONS.
- SLOPE SLAB TO DRAINS, SEE ARCHITECTURAL PLANS FOR SLOPE.
- REFER TO ARCHITECTURAL PLANS FOR FLOOR FINISHES. ENGINEER IS NOT RESPONSIBLE FOR TYPE OF FLOOR FINISHES.
- PROVIDE SLAB CONTRACTION JOINTS PER TYPICAL DETAIL.
- THE TESTING LABORATORY SHALL BE THE OWNER REPRESENTATIVE TO CONTROL THE PLACEMENT OF COMPACTED FILL. THE TESTING LABORATORY SHALL APPROVE THE SUBGRADE PREPARATION, THE FILL MATERIALS, THE METHOD OF PLACEMENT AND COMPACTION, AND SHALL INDICATE ON THERE REPORT THE ELEVATION OF THE COMPACTED SUBGRADE.
- ALL EARTHWORK AND GRADING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERING STUDY. THE STRINGENT REQUIREMENTS BETWEEN THESE SUBGRADE NOTES AND GEOTECHNICAL ENGINEERING STUDY SHALL GOVERN AND EXECUTED BY THE CONTRACTOR.
- IN THE EVENT FOUNDATION EXCAVATIONS ARE CARRIED TO A DEPTH GREATER THAN REQUIRED, THE ADDITIONAL DEPTH SHALL BE FILLED WITH THE SAME CONCRETE AS THAT USED FOR FOOTING AT NO ADDITIONAL EXPENSE TO THE OWNER. NO UNCONTROLLED FILL WILL BE PERMITTED.
- THE FOOTING EXCAVATIONS SHALL BE KEPT FREE FROM LOOSE MATERIAL AND STANDING WATER.
- THE FOUNDATION EXCAVATIONS SHOULD BE OBSERVED BY THE TESTING LABORATORY PRIOR TO STEEL OR CONCRETE PLACEMENT TO ASSESS THAT THE FOUNDATION MATERIALS ARE CAPABLE OF SUPPORTING THE DESIGN LOADS AND ARE CONSISTENT WITH THE MATERIALS DISCUSSED IN THE STUDY. THIS IS ESPECIALLY IMPORTANT TO IDENTIFY THE ACCEPTABILITY OF THE SUBGRADE OR FILL MATERIAL UNDER THE FOOTING. SOFT OR LOOSE SOIL ZONES ENCOUNTERED AT THE BOTTOM OF THE FOOTING OR BEAM EXCAVATIONS SHOULD BE EXCAVATIONS SHOULD BE REMOVED TO THE LEVEL OF COMPETENT SOIL AS DIRECTED BY THE TESTING LABORATORY. CAVITIES FORMED AS A RESULT OF EXCAVATION OF SOFT OR LOOSE SOIL ZONES SHOULD BE BACKFILLED WITH LEAN CONCRETE OR SELECT FILL AS DETERMINED BY THE TESTING LABORATORY.
- CARE SHOULD BE TAKEN TO SHAPE THE BUILDING AREAS SUCH THAT WATER WILL NOT POND AROUND THE STRUCTURE DURING CONSTRUCTION AND CAUSE THE NEAR SURFACE CLAYS TO SWELL. THE PROPOSED STRUCTURE SHALL BE ISOLATED FROM ANY MOISTURE SOURCE WHICH MIGHT ALSO CAUSE SWELLING OF THE CLAYS AFTER COMPLETION OF THE CONSTRUCTION.
- WHEN THE STRUCTURE IS COMPLETE, THE GROUND SURFACE SHOULD SLOPE AWAY FROM THE STRUCTURE AND DOWN SPOUTS SHOULD CARRY RUNOFF WATER SEVERAL FEET FROM THE BUILDING, PREFERABLY INTO PAVED AREAS OR SEWERS, BEFORE DISCHARGING.
- DO NOT PLANT, OR LEAVE IN PLACE, DEEP ROOTED TREES WITHIN CLOSE PROXIMITY TO THE PERIMETER OF THE STRUCTURE. DEEP ROOTED TREES HAVE POTENTIAL TO REMOVE MOISTURE FROM BENEATH THE BUILDING IF PLATED CLOSE ENOUGH TO ALLOW THE ROOT BULB EXTEND NEAR OR BENEATH THE BUILDING.
- AIR CONDITIONING CONDENSER DRAIN LINES TO DISCHARGE WATER A MINIMUM OF 5 FEET FROM THE PERIMETER OF THE STRUCTURE. THE DISCHARGE AREA SHALL HAVE SUFFICIENT SLOPE AWAY FROM THE STRUCTURE TO PREVENT STANDING WATER.
- THE FINAL ONE (1) FOOT OF FILL OUTSIDE THE BUILDING AREA SHOULD CONSIST OF A COHESIVE CLAYEY (CL) SOIL. FILL CAN NOT BE ALLOWED TO DRY OUT DURING OR AFTER COMPACTION.
- NOTE THAT SOME LEVELS OF RISK ARE ASSOCIATED WITH ALL FOUNDATION SYSTEMS AND THERE IS NO SUCH THING AS A "ZERO RISK" FOUNDATION. IT ALSO SHOULD BE NOTED THAT THE FOUNDATION PROVIDED IS NOT DESIGNED TO RESIST SOIL MOVEMENT AS A RESULT OF SEWER/PLUMBING LEAKS, EXCESSIVE IRRIGATION, NON UNIFORM IRRIGATION, POOR DRAINAGE, AND WATER PONDING NEAR THE FOUNDATION SYSTEM.
- CONSTRUCTION FOLLOWING WET WEATHER PERIODS WILL LIKELY ENCOUNTER DIFFICULTIES DUE TO THE WET OR SOFT SURFACE SOILS BECOMING A GENERAL HINDRANCE TO EQUIPMENT DUE TO RUTTING AND PUMPING OF THE SOIL SURFACE. IF THE SUBGRADE CANNOT BE ADEQUATELY COMPACTED TO MINIMUM DENSITIES AS DESCRIBED ABOVE, ONE OF THE FOLLOWING MEASURES WILL BE REQUIRED:
 - REMOVAL AND REPLACEMENT WITH SELECT FILL
 - CHEMICAL TREATMENT OF THE SOIL TO DRY SOIL AND INCREASE THE STABILITY OF THE SUBGRADE
 - DRYING BY NATURAL MEANS.
- ALL FOOTINGS TO HAVE #5s AT 12" O.C. EACH WAY TOP AND BOTTOM REINFORCING.
- FOLLOWING ARE THE SIZES OF THE REQUIRED FOOTINGS:
 - INDICATES A 5'-6" x 5'-6" x 3'-0" DEEP CEE FOOTING
 - INDICATES A 6'-6" x 6'-6" x 3'-0" DEEP TEE FOOTING

SLAB ON GRADE	
THICKNESS	5 INCHES
REINFORCING (EACH WAY)	#4 AT 14" O.C.
REINFORCING LOCATION	MID DEPTH
VISQUEEN	10 MIL
CONCRETE CHAIRS (NOT PLASTIC CHAIRS ALLOWED)	3'-0" O.C. EACH WAY

1 FOUNDATION PLAN
SCALE: 3/16"=1'-0"



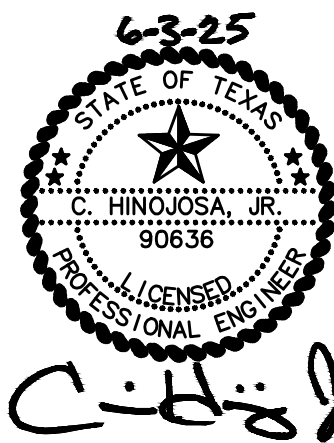
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(956) 687-5560



METAL BUILDING NOTES:

1. THE DESIGN AND CONSTRUCTION OF THE METAL BUILDING IS THE RESPONSIBILITY OF THE SUPPLIER. THE PLAN SHOWN IS SCHEMATIC ONLY.
2. VERIFY SIZE AND LOCATION OF ALL SUPPORTED ITEMS WITH MANUFACTURER AND ARCH'L DRAWINGS. PRIOR TO FABRICATING STEEL, PROVIDE ALL FRAMING INCLUDING SUB PURLINS AND ROD HANGERS BETWEEN 12" PURLINS AS REQ'D.
3. THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION AND NUMBER OF MECH'L. UNITS SUPPORTED BY THE METAL BUILDING STRUCTURE PRIOR TO ORDERING THE METAL BUILDING. SUPPORT FRAMING SHALL BE PROVIDED FOR ALL UNITS WHETHER THEY ARE SHOWN ON THIS DRAWING OR NOT.

1 ROOF FRAMING PLAN
SCALE: 3/16"=1'-0"



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NORTH HIGH
SCHOOL**

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Edinburg, TX
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**ROOF
FRAMING
PLAN**

ADDENDUM #2

S3.0



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ALTERNATE
ROOF
FRAMING
PLAN

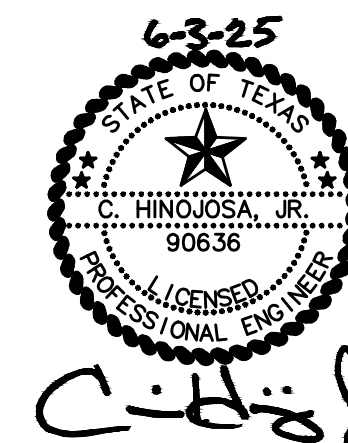
ADDENDUM #2

S3.1

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3. THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION AND NUMBER OF MECH'L. UNITS SUPPORTED BY THE METAL BUILDING STRUCTURE PRIOR TO ORDERING THE METAL BUILDING. SUPPORT FRAMING SHALL BE PROVIDED FOR ALL UNITS WHETHER THEY ARE SHOWN ON THIS DRAWING OR NOT.

1 ALTERNATE
ROOF FRAMING PLAN
SCALE: 3/16"=1'-0"



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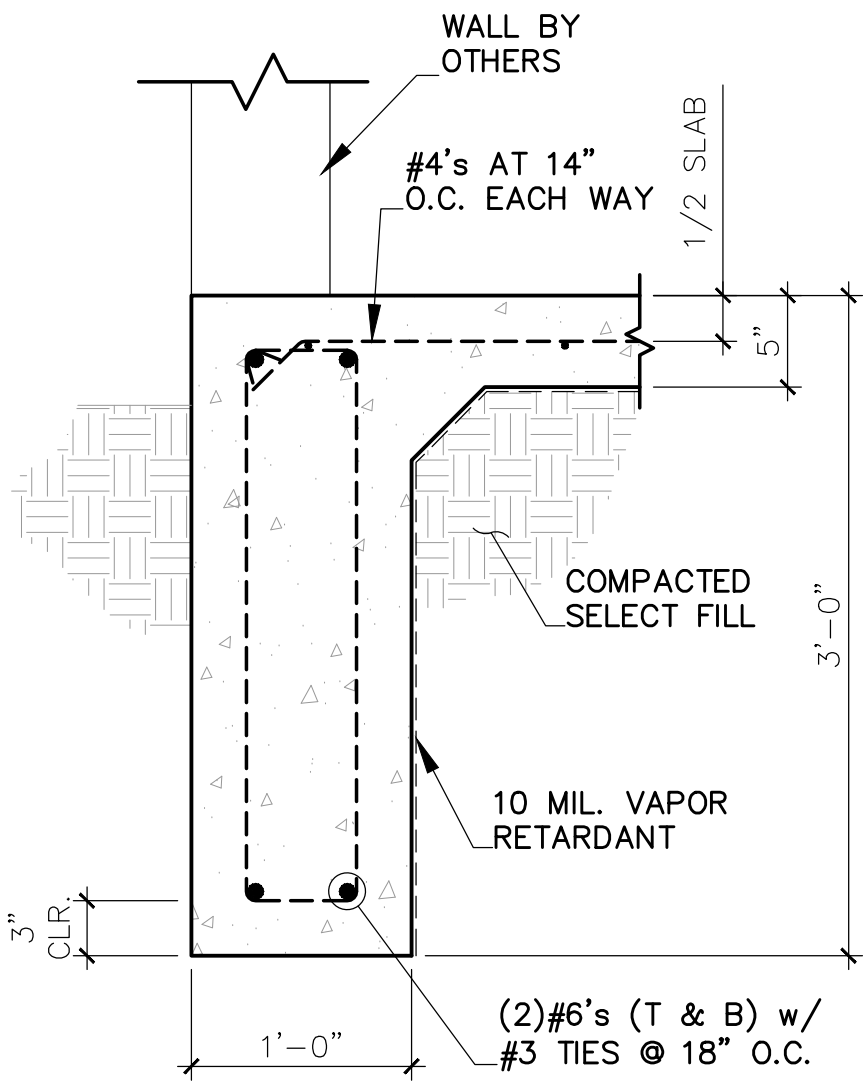
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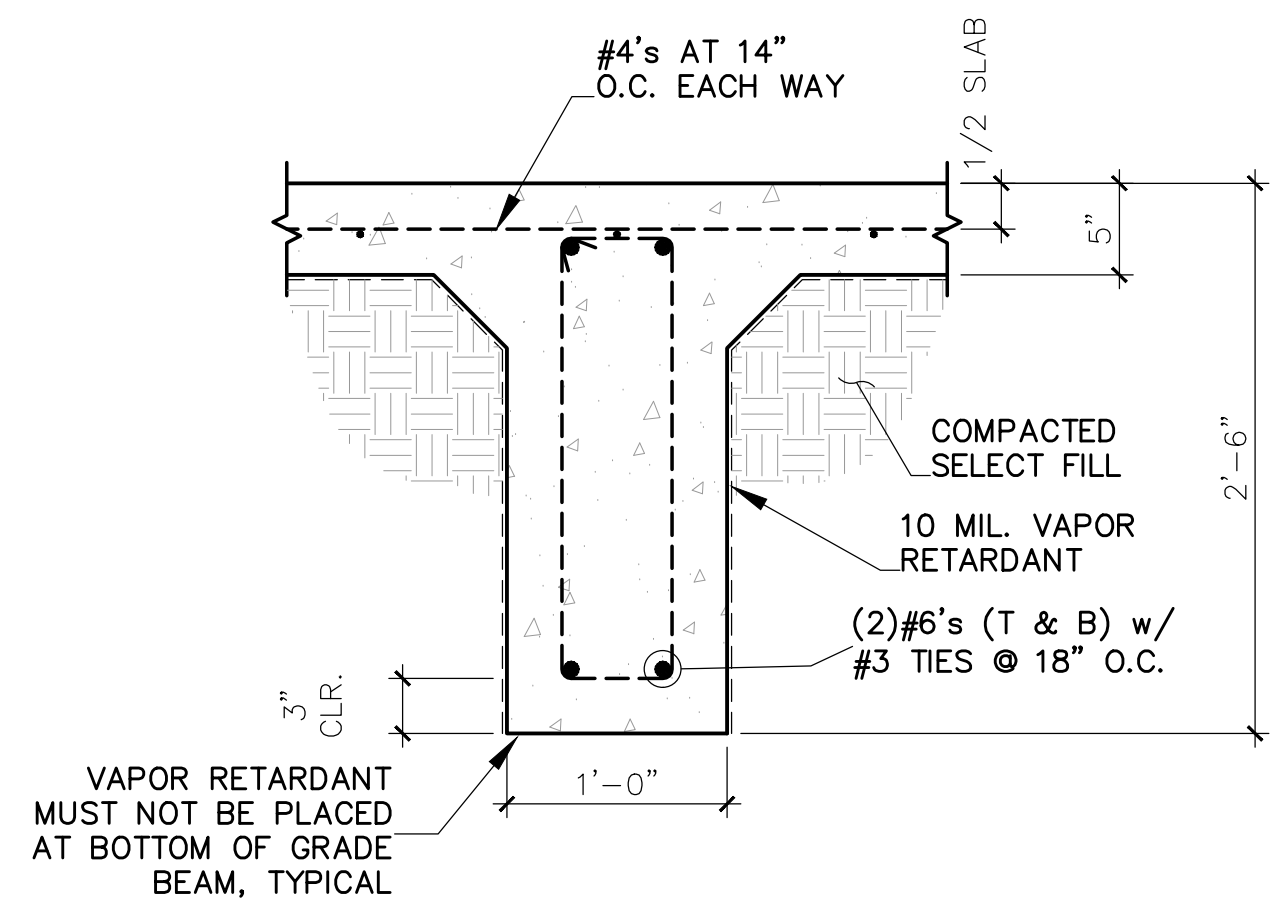
FOUNDATION
DETAILS

ADDENDUM #2

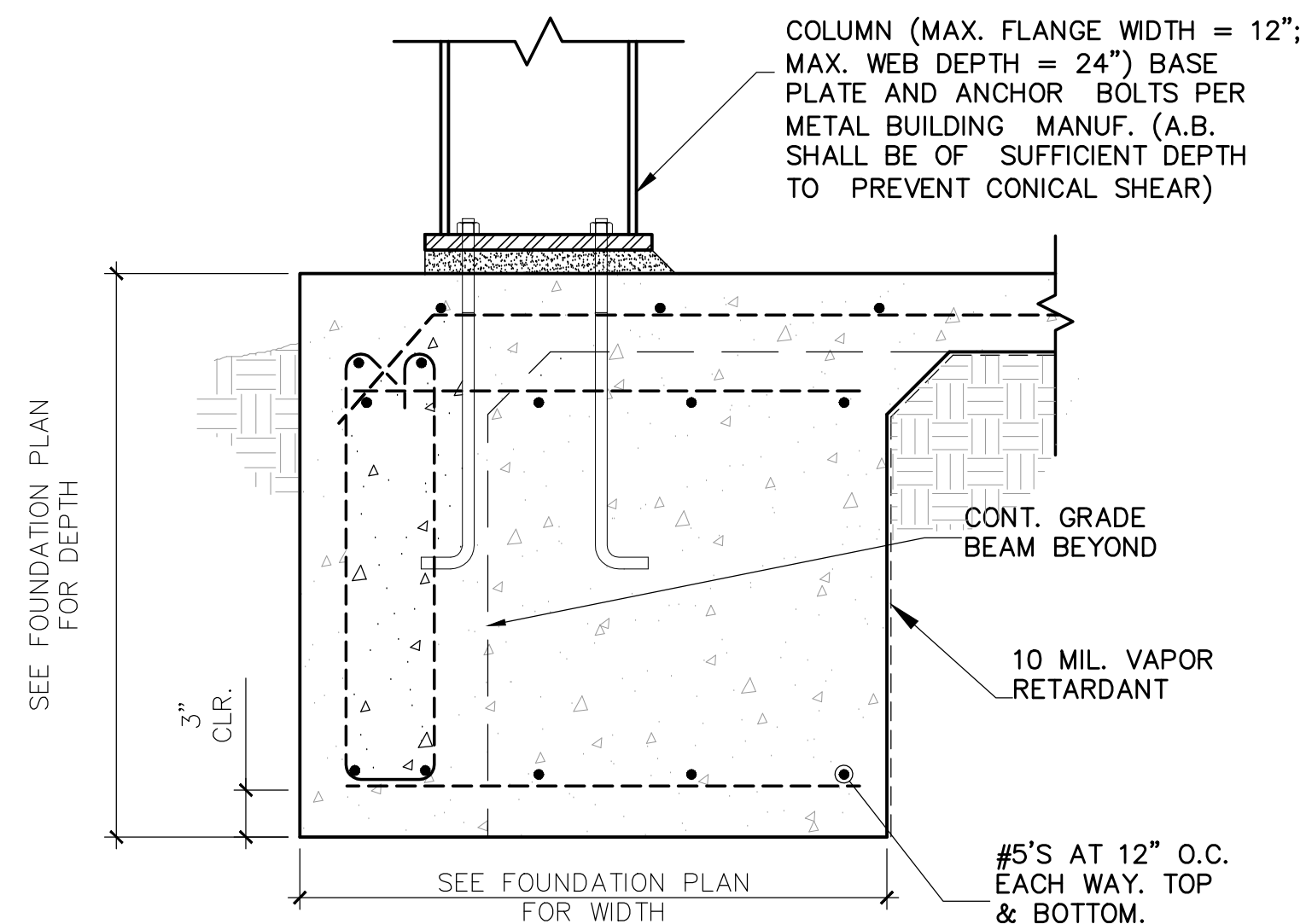
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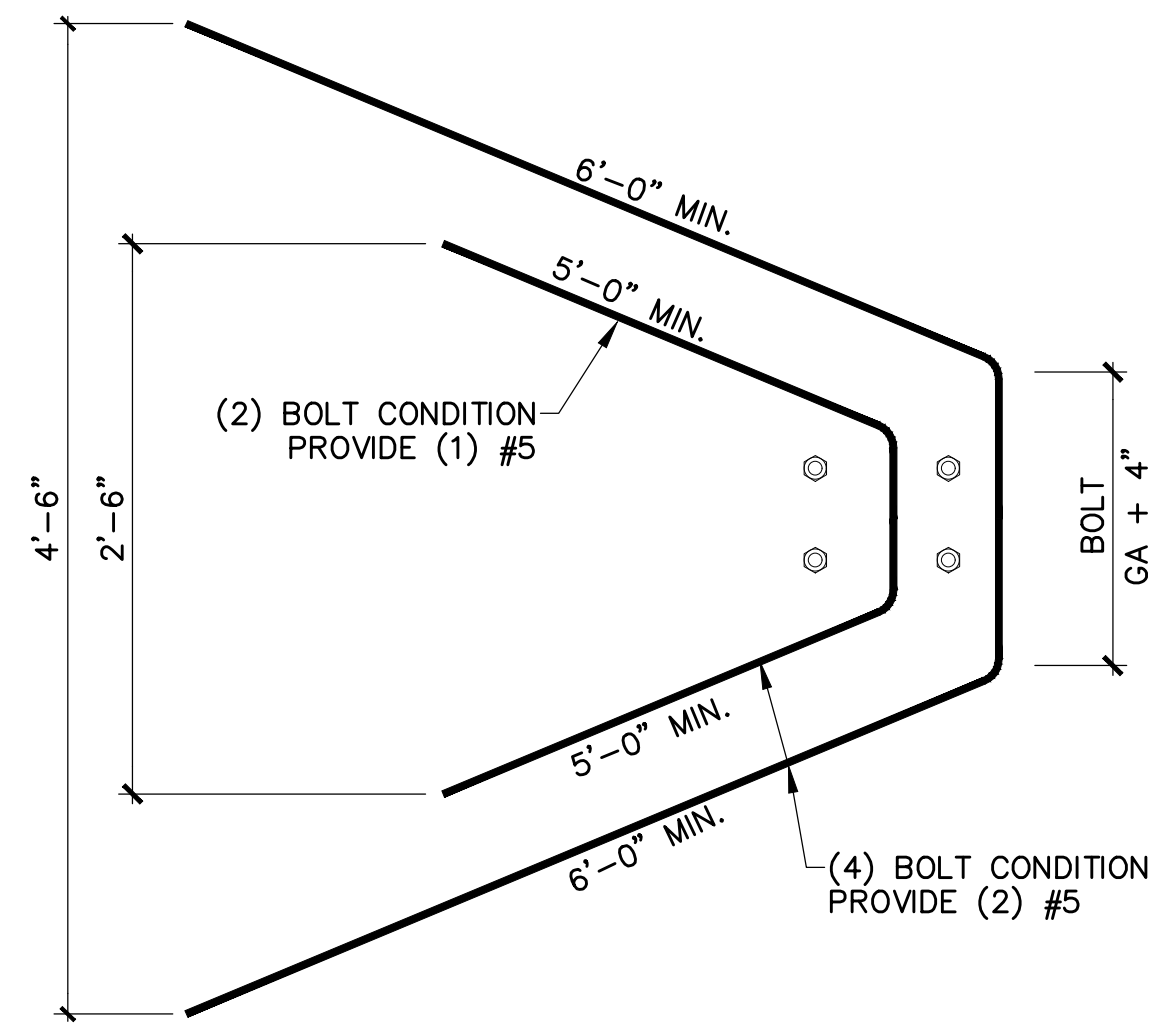
1 EXTERIOR GRADE BEAM
SCALE: NOT TO SCALE



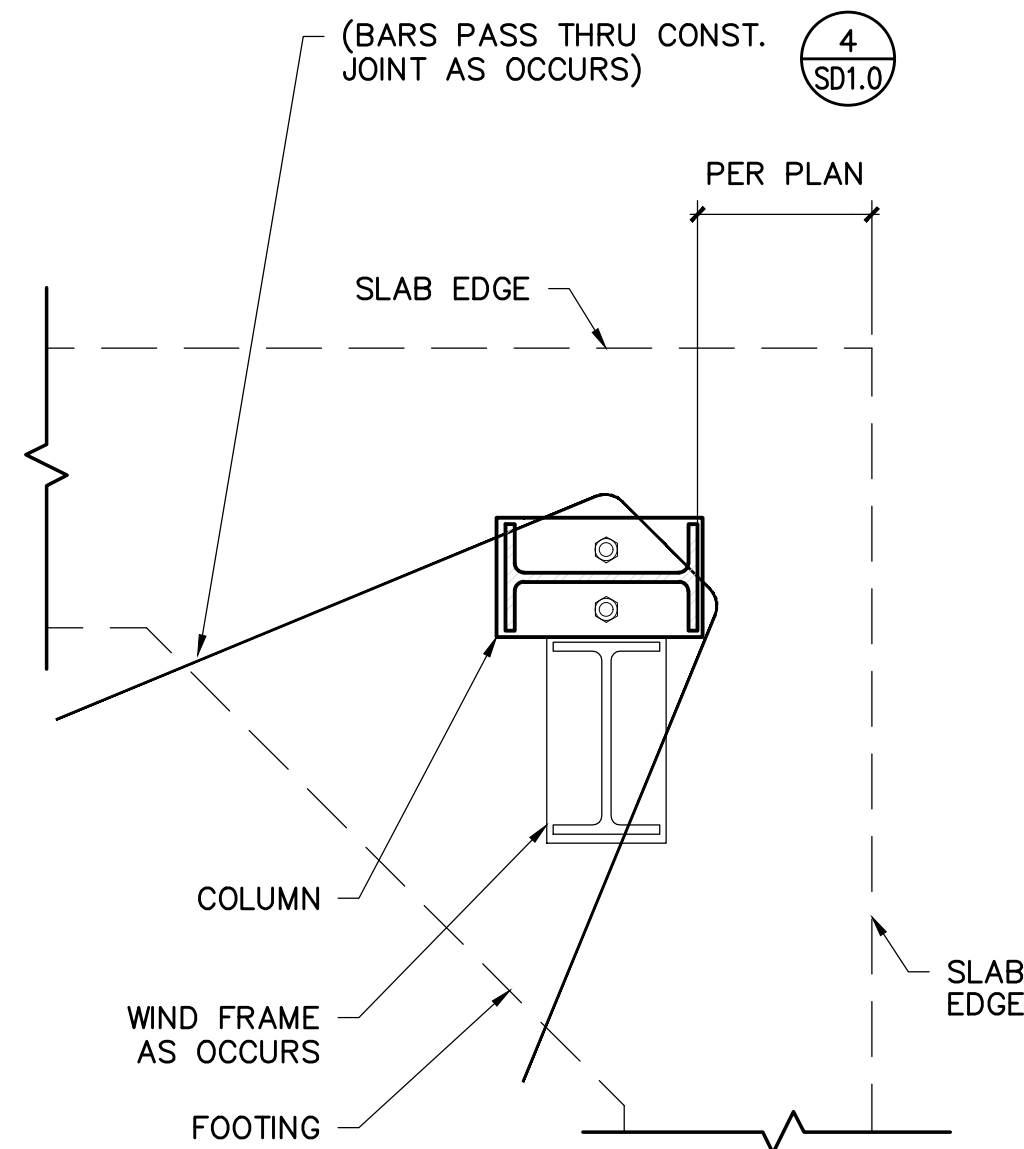
2 INTERIOR GRADE BEAM
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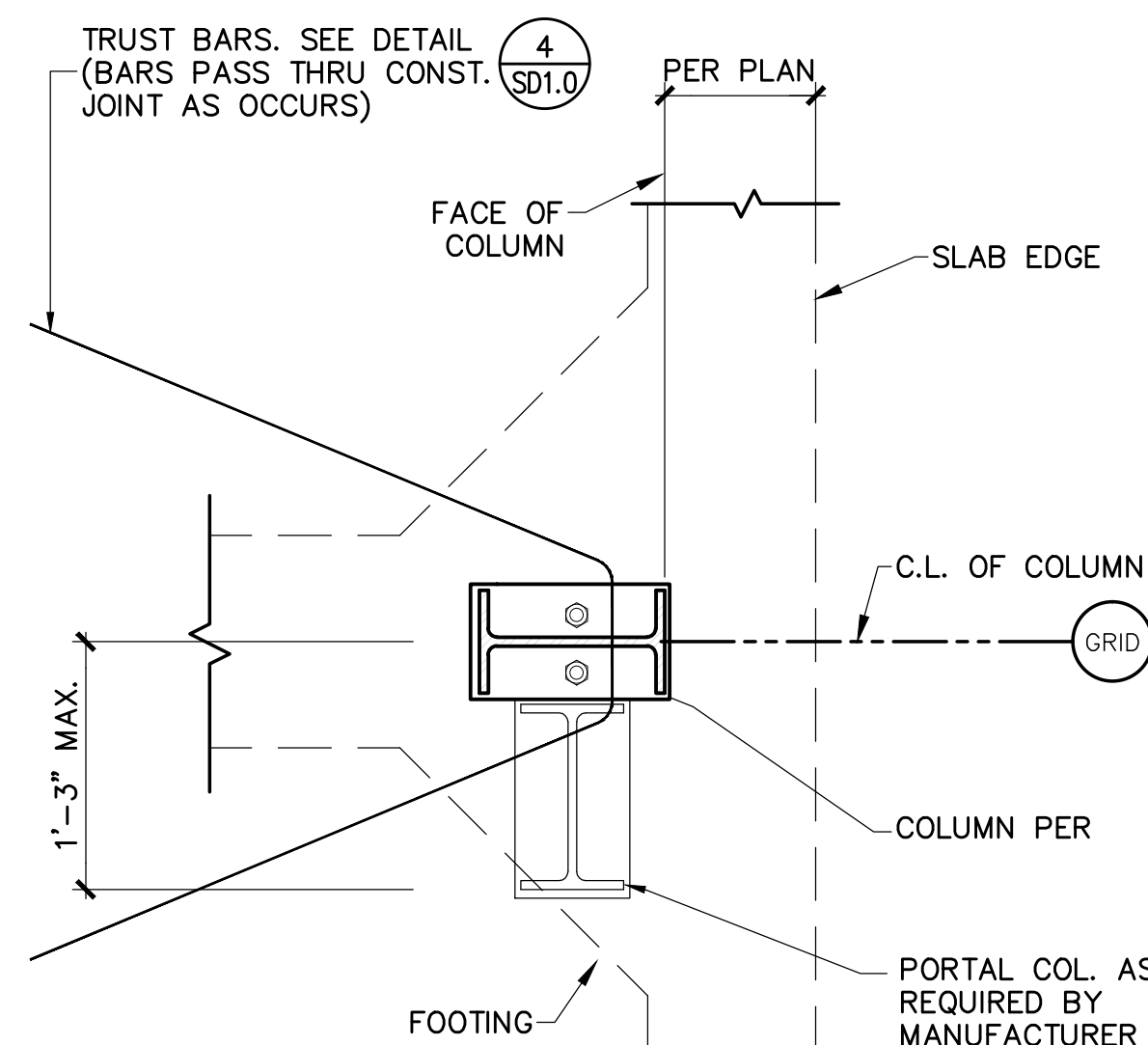
3 FOOTING AT COLUMN
SCALE: NOT TO SCALE



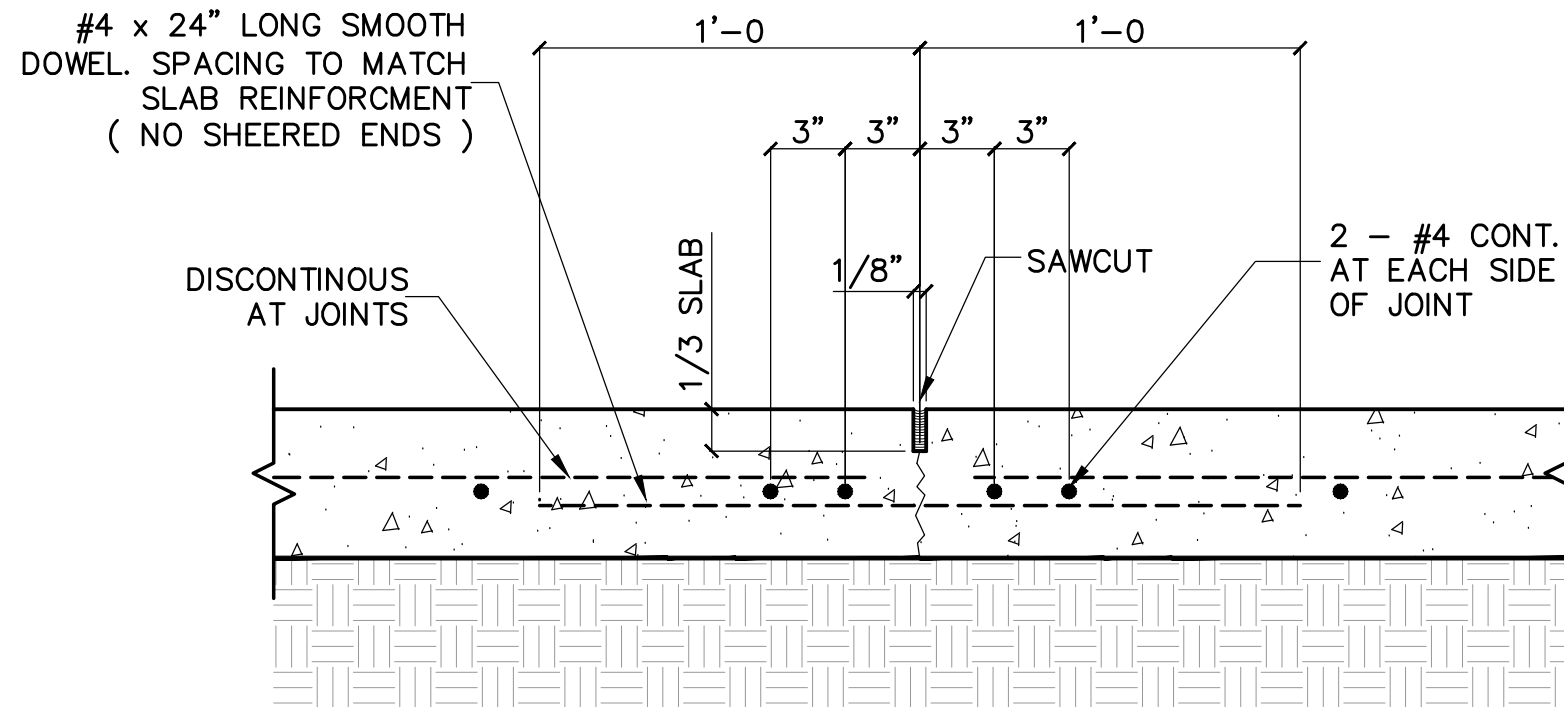
4 PLAN VIEW, TRUST BARS
SCALE: NOT TO SCALE



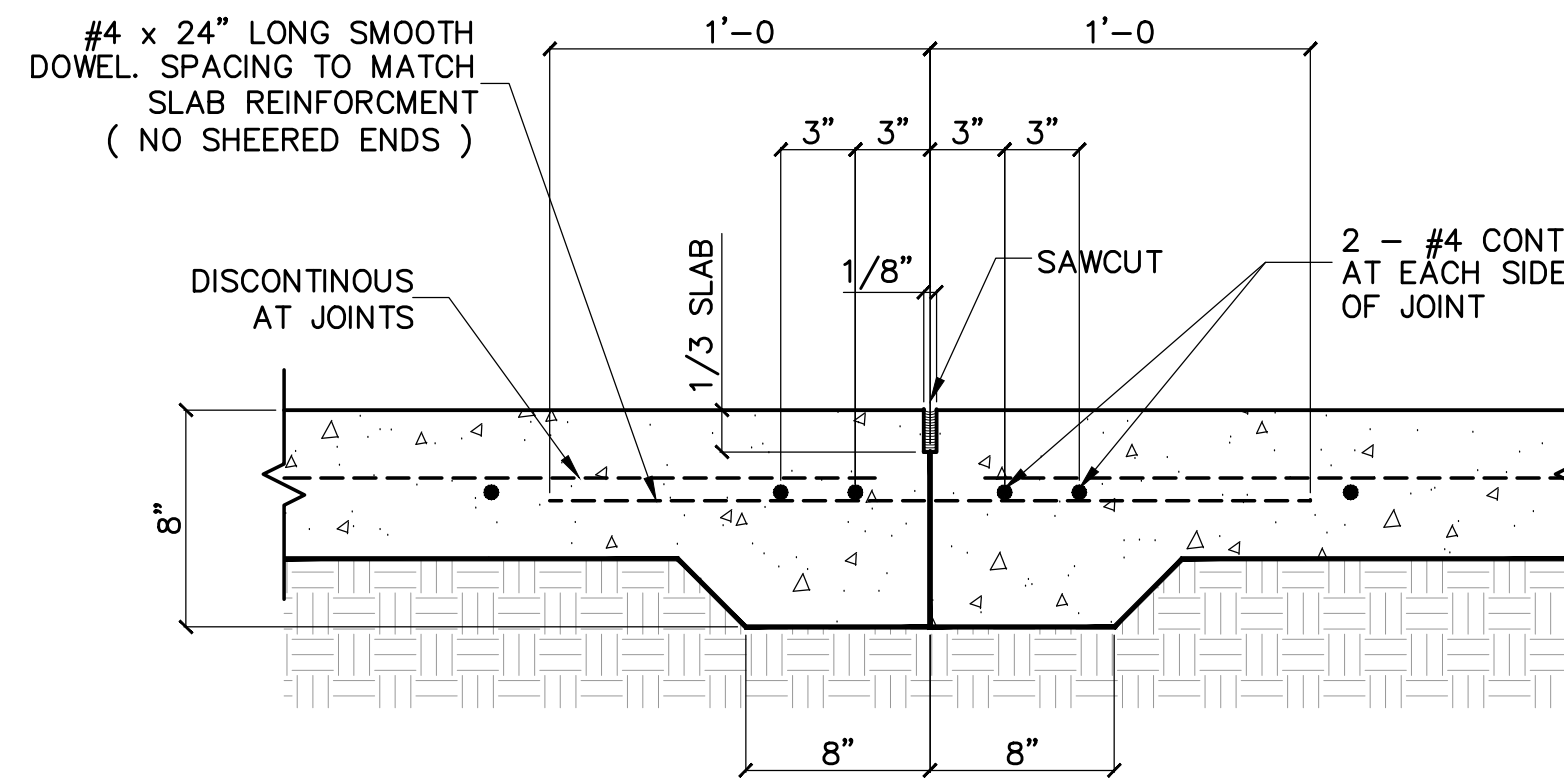
5 PLAN VIEW
SCALE: NOT TO SCALE



6 PLAN VIEW
SCALE: NOT TO SCALE

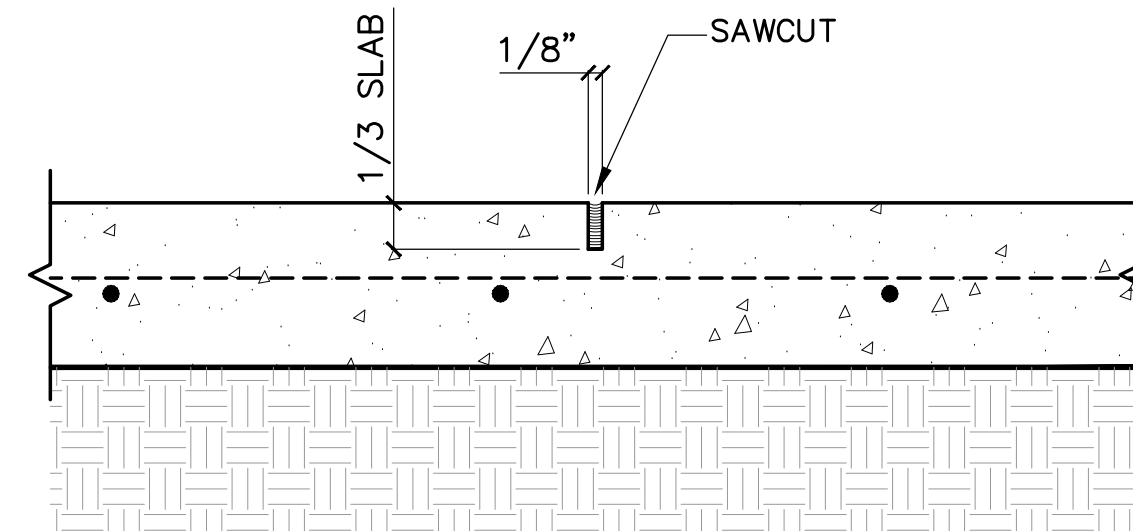


CONTRACTION JOINT @ POUR STOPS



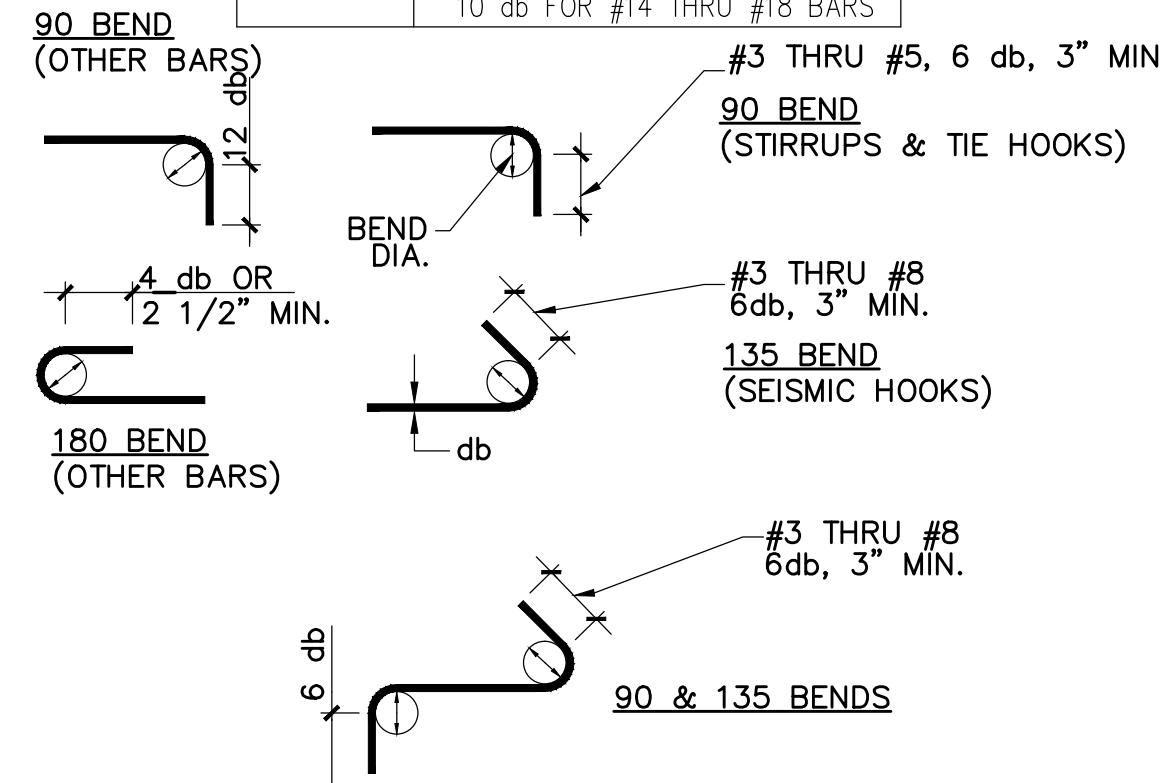
CONSTRUCTION JOINT @ POUR STOPS

7 CONSTRUCTION / CONTRACTION JOINT
SCALE: NOT TO SCALE

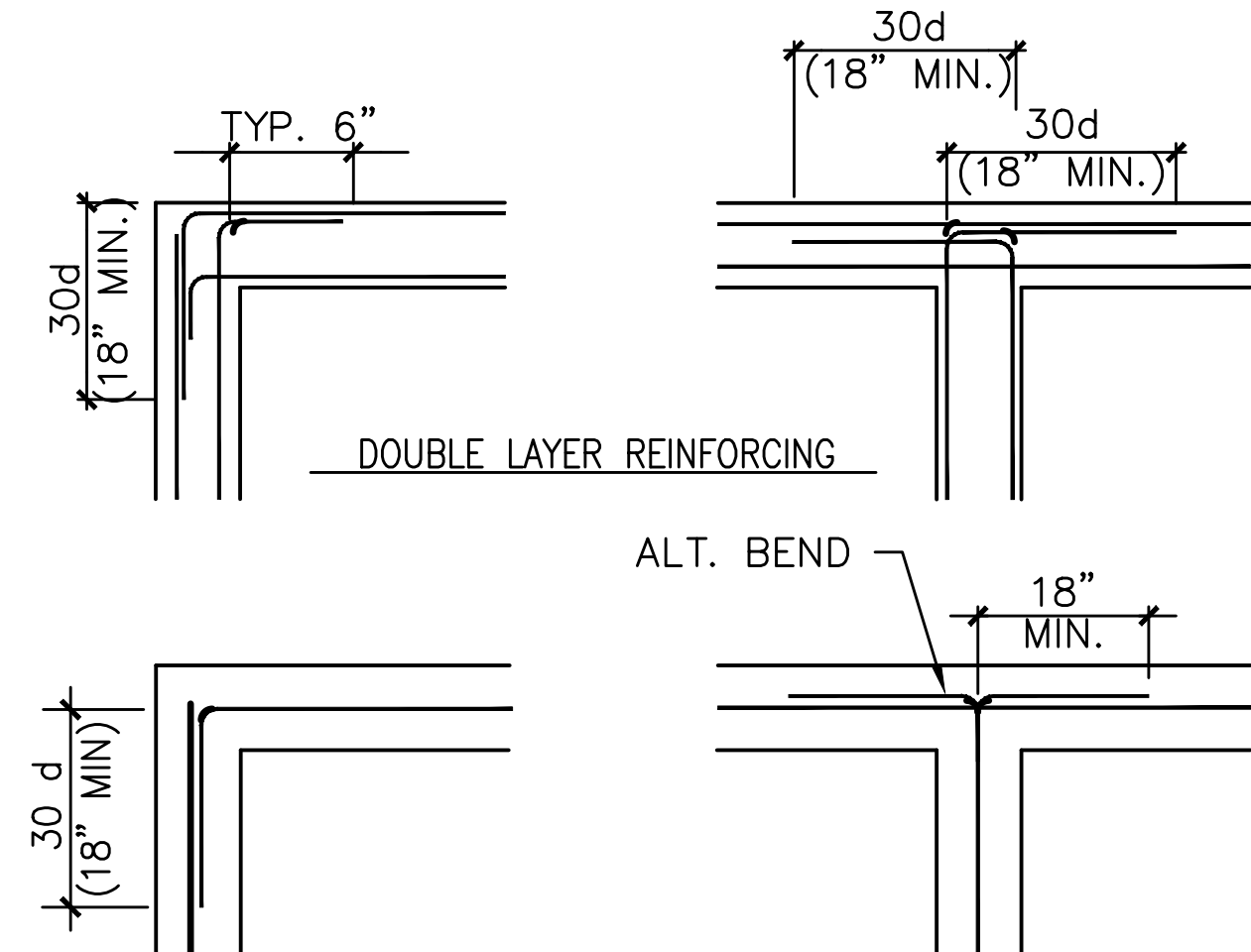


8 CONTROL JOINT
SCALE: NOT TO SCALE

DIAMETER OF BENDS	
STIRRUPS AND TIES	4 db FOR #3 THRU #5 BARS
ALL OTHERS	6 db FOR #6 THRU #8 BARS
ALL OTHERS	6 db FOR #3 THRU #8 BARS
ALL OTHERS	8 db FOR #9 THRU #11 BARS
ALL OTHERS	10 db FOR #14 THRU #18 BARS



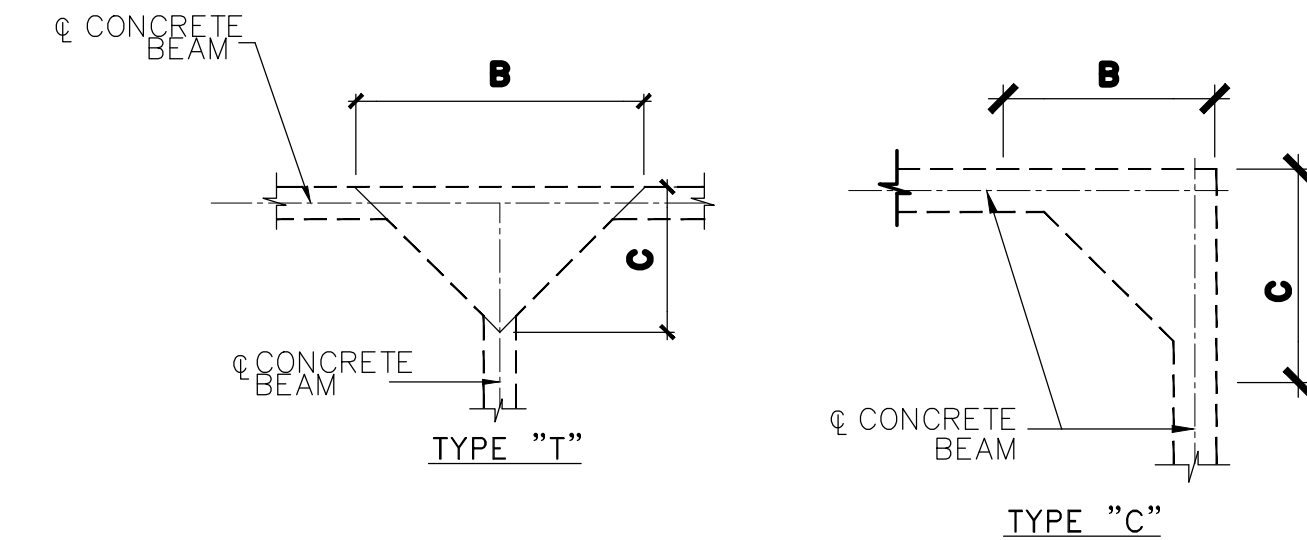
9 STANDARD HOOKS
SCALE: NOT TO SCALE



10 TYP. REINF. @ INT. OF CONC. FTG'S.
SCALE: NOT TO SCALE

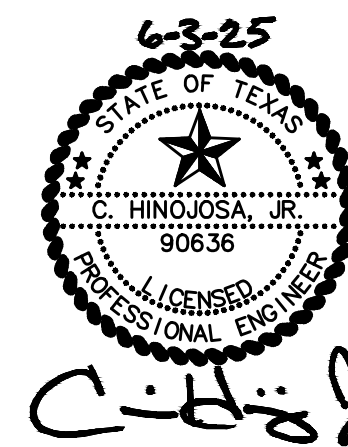
FOOTING SCHEDULE					
TYPE	A	B	C	D	REINFORCING
C5		5'-6"	5'-6"	3'-0"	#5'S @ 12" O.C. E.W. TOP & BOT.
T6		6'-6"	6'-6"	3'-0"	#5'S @ 12" O.C. E.W. TOP & BOT.

- NOTES: 1. D = FOOTING DEPTH BELOW FINISH FLOOR
2. FOOTING DIMENSIONS ARE FOR BIDDING PURPOSES ONLY. ACTUAL DIMENSIONS MAY VARY.
3. PROVIDE UNIT PRICES (ON A CUBIC YARD BASIS) FOR REINFORCED (#6'S @ 8" OC EW TOP & BOT.) WIDENED BEAM CONCRETE FOOTINGS



WIDENED BEAM FOOTINGS

11 FOOTING AT COLUMN
SCALE: NOT TO SCALE



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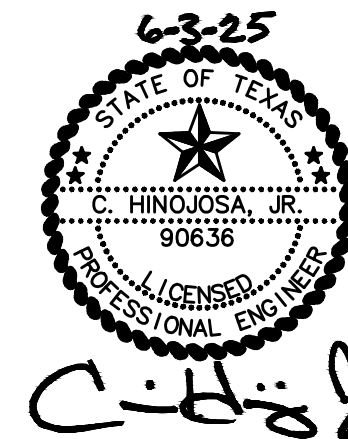
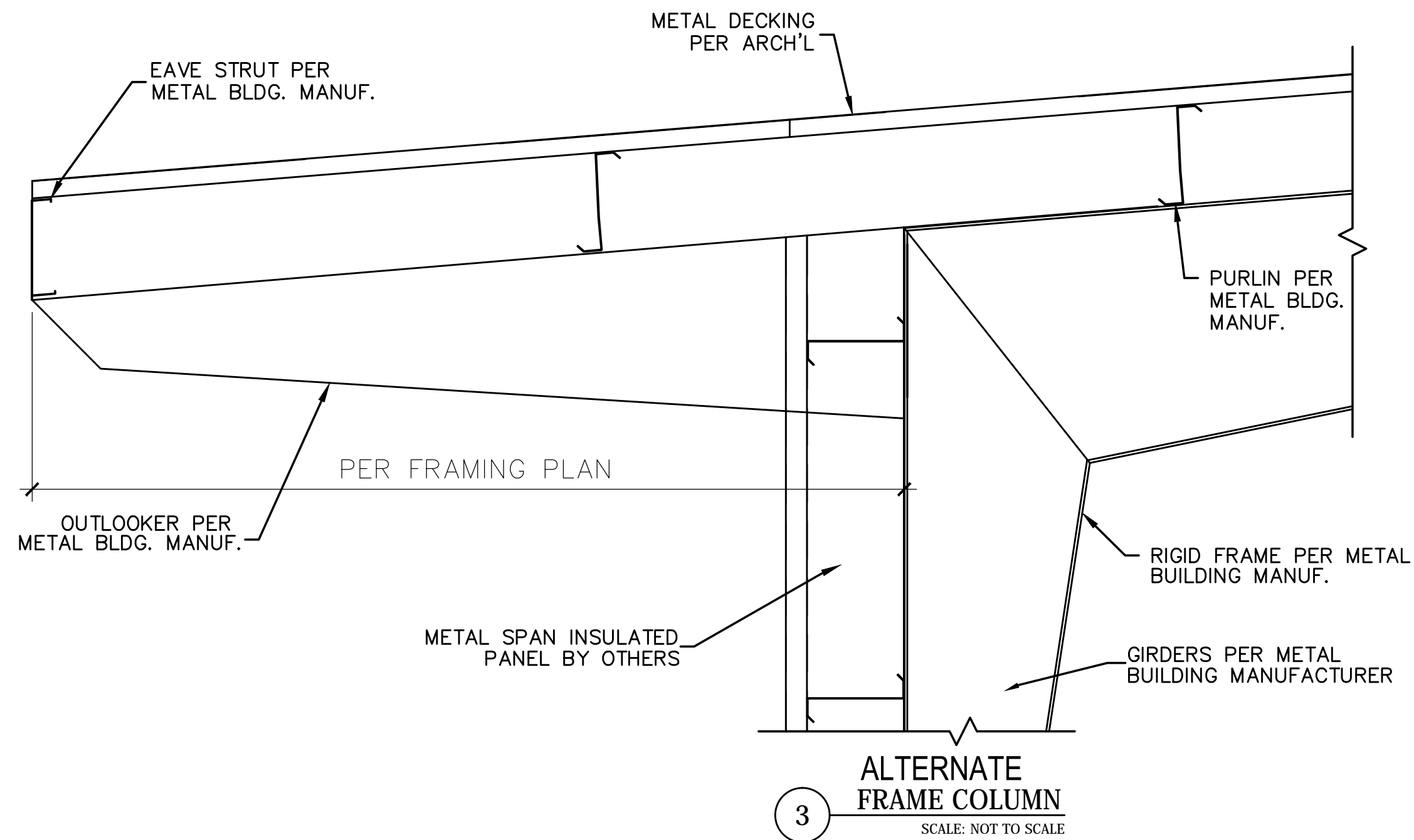
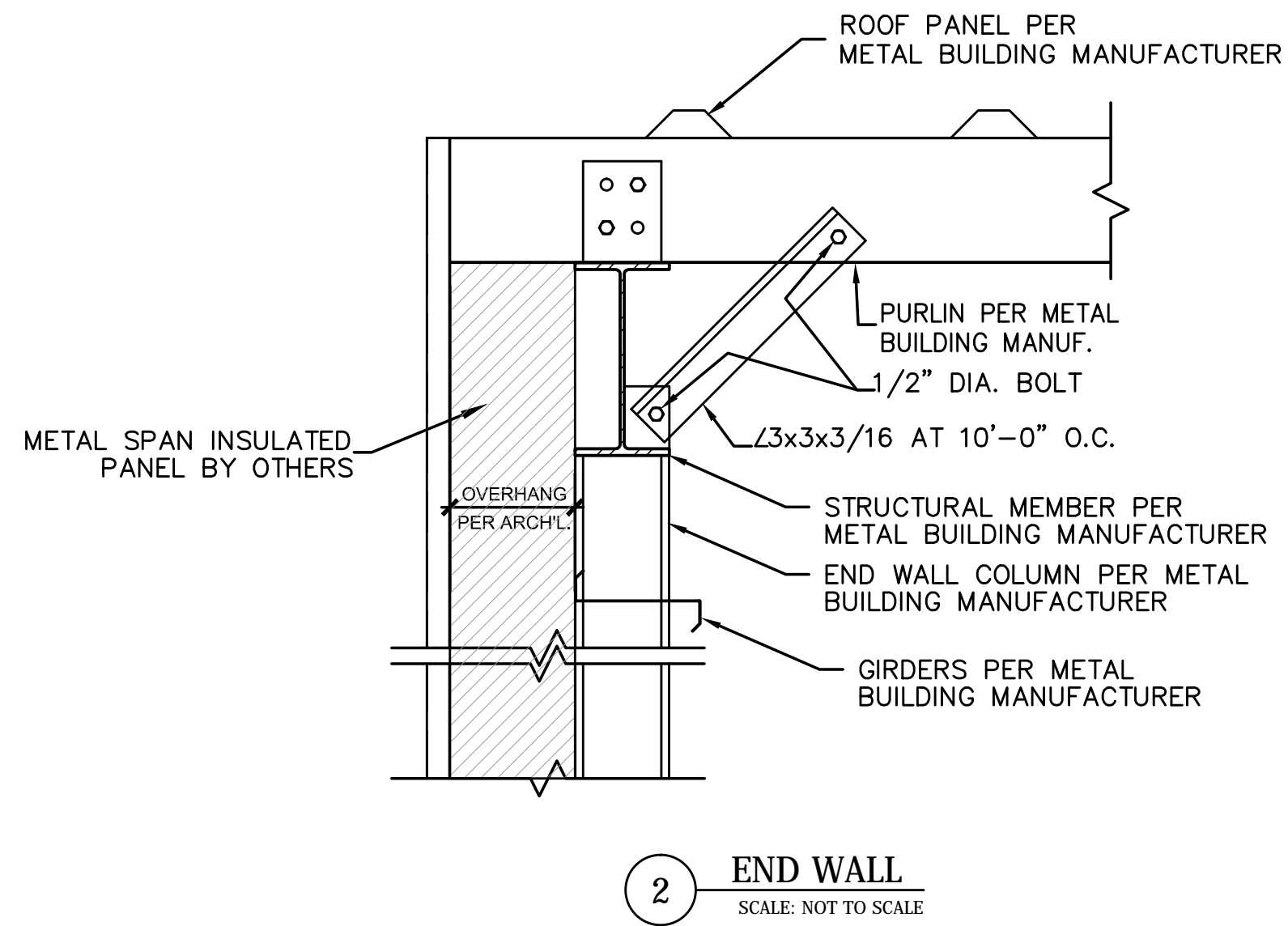
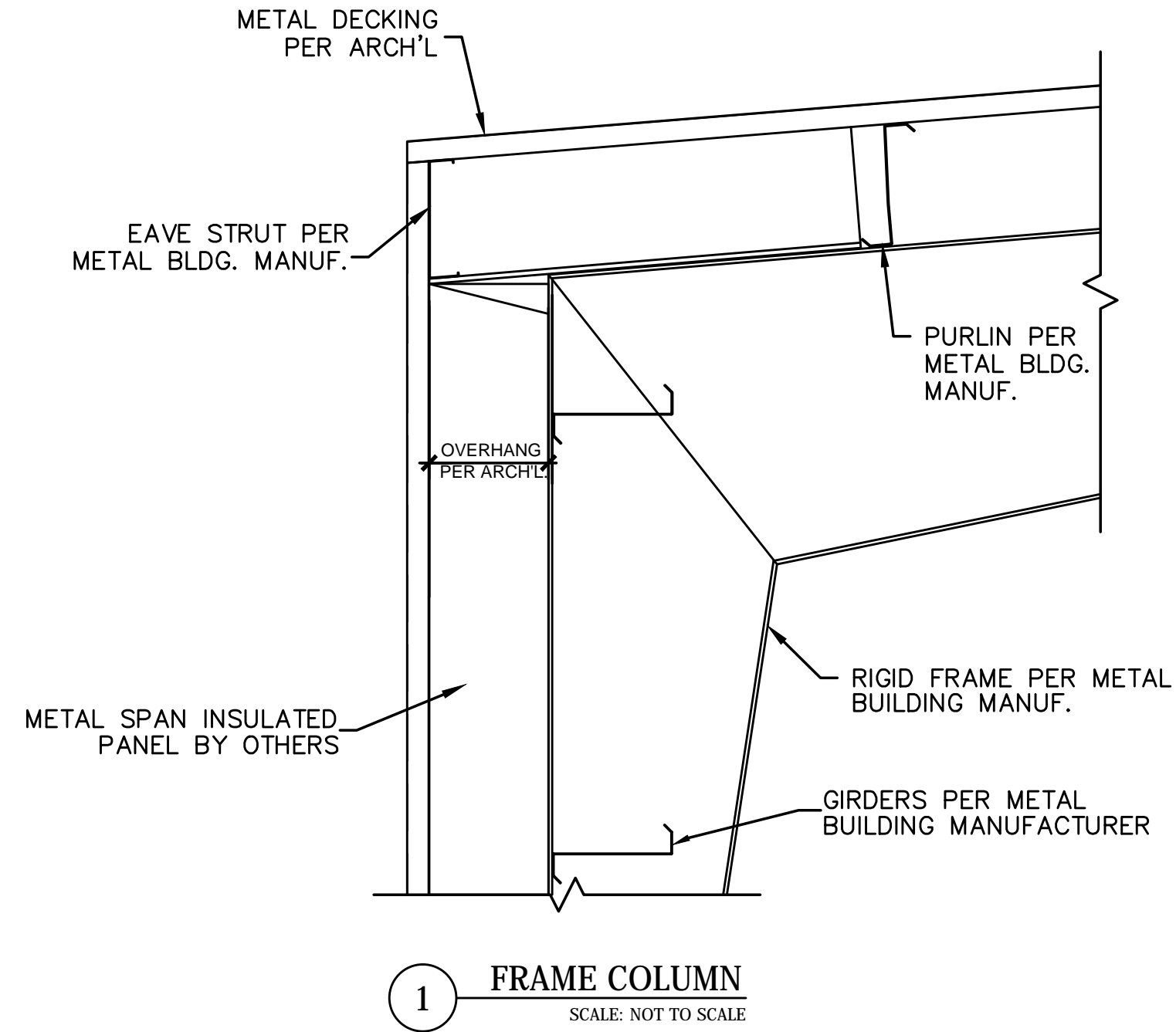
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FRAMING
DETAILS

ADDENDUM #2

SD2.0



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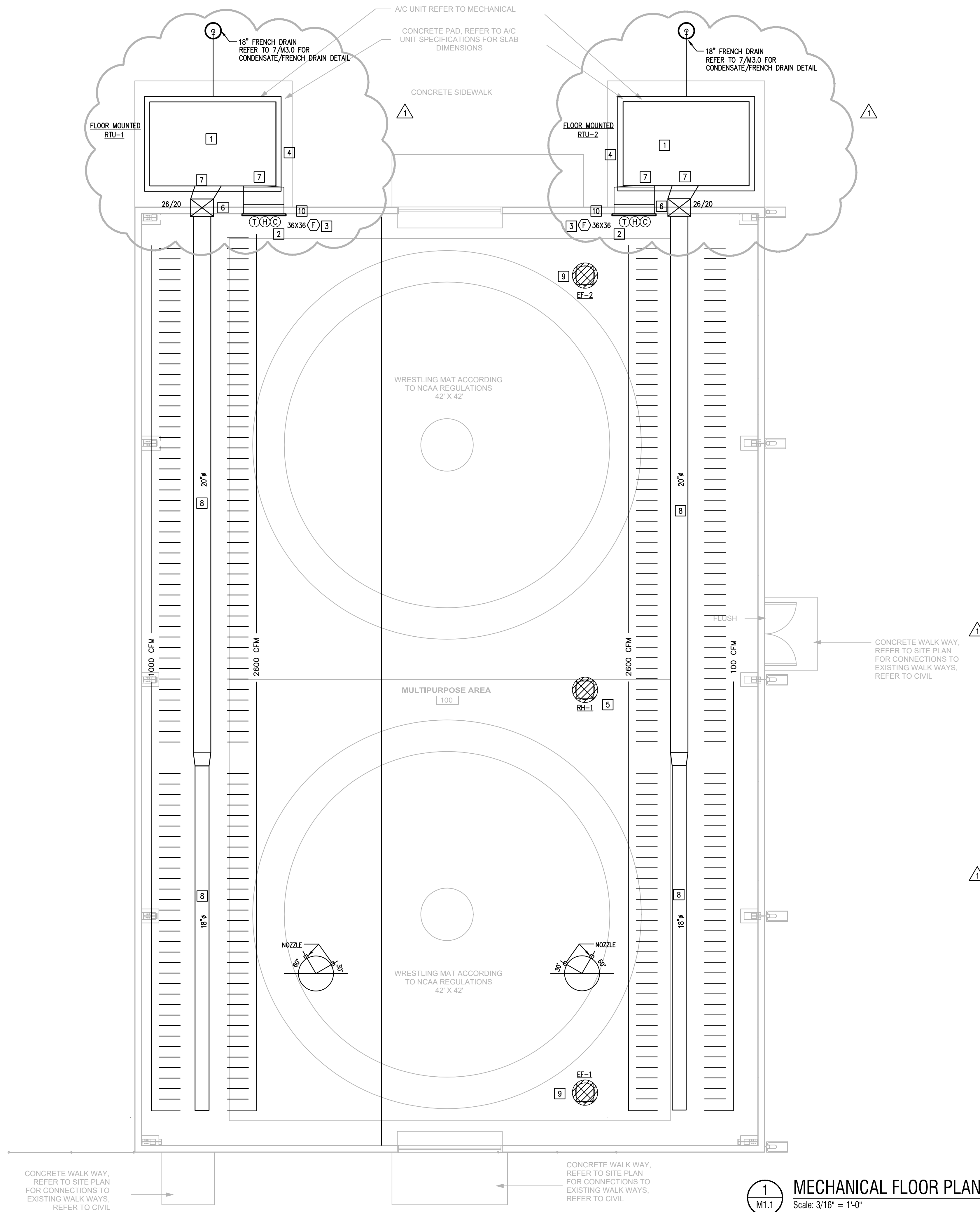
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No.	Description	Date
1	ADDENDUM #2	06-03-2025

PROJECT #: 25-030102
DRAWN BY: N.M.
CHECKED BY: CG3
DATE: 4/28/25

MECHANICAL
FLOOR PLAN

M1.1



MECHANICAL GENERAL NOTES

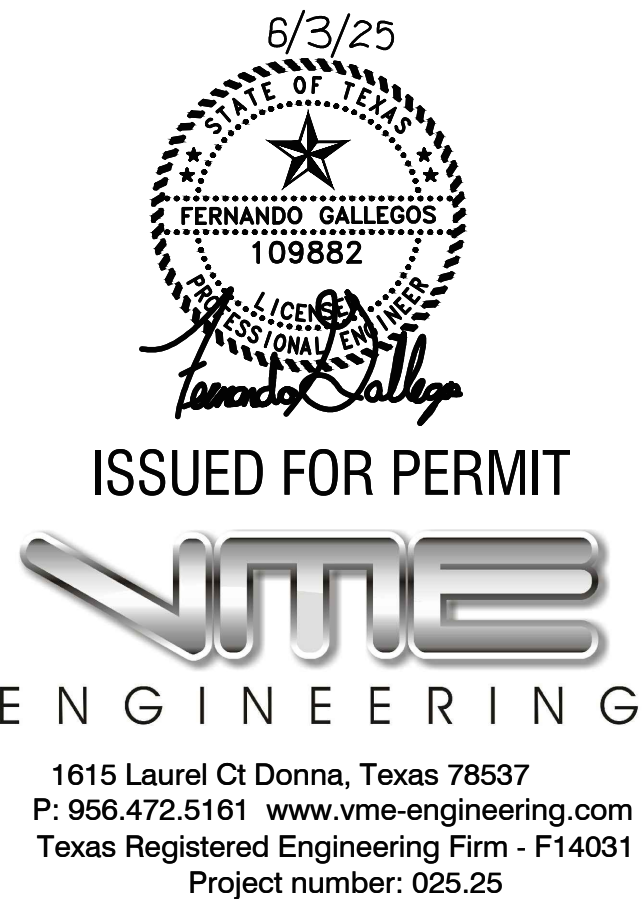
- CONTRACTOR SHALL BALANCE EACH SPACE WITH THE CFM SHOWN ON PLAN. NOTE NOT ALL SPACES HAVE SAME CFM SHOWN ON RTU SCHEDULE.
- NEW PIPING AND DUCTWORK SHOWN ON PLAN ARE SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK ROUTING, OFFSET AND RUN PIPING, DUCTWORK INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ANY EXTRA PIPING, DUCTWORK, FITTINGS, INSULATIONS AND OTHER ACCESSORIES IN ORDER TO COMPLETE THE INSTALLATION.
- COORDINATE LOCATIONS ROOF OPENINGS AND SIZES OF WALL OPENINGS WITH ARCHITECT AND STRUCTURE ENGINEERS.
- EQUIPMENT SIZES, DIMENSIONS AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE VENDOR DRAWINGS BEFORE FABRICATION OF DUCTWORK, PIPING.
- DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE AIR STREAM DIMENSIONS. DUCTWORK SHALL BE SHEET METAL.
- CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL HVAC EQUIPMENT PRIOR TO INSTALLATION.

MECHANICAL KEYED NOTES

- RTU ON FLOOR PROVIDE 6" CONCRETE PAD. COORDINATE INSTALLATION WITH SIDE OPENINGS AND REQUIRED CLEARANCES. PROVIDE PROPER SUPPORT. FIELD COORDINATE LOCATION WITH STRUCTURE AND OFFSET AS REQUIRED. PROVIDE FLEXIBLE CONNECTIONS ON SUPPLY AND RETURN DUCT.
- PROVIDE SPACE TEMPERATURE SENSOR, SPACE HUMIDITY SENSOR, CO2 SENSOR. REFER TO SCHEDULE. PROVIDE CONNECTION SO SCHOOLS CONTROL SYSTEM.
- PROVIDE FILTERED RETURN AIR GRILLED AS SCHEDULED ON DOOR/WALL/CEILING. SIZE IS INDICATED ON PLAN.
- PROVIDE 6" CONCRETE PAD FOR ACQU.
- PROVIDE RELIEF HOOD ON ROOF. PROVIDE 14" ROOF CURB. PROVIDE RELIEF DAMPER SET AT 0.05". COORDINATE WITH ROOF SLOPE. PROVIDE DUCT SAME SIZE AS OPENING AND TERMINATE 12" BELOW ROOF INSULATION. PROVIDE WIRE MESH AT END.
- PROVIDE PROTECTIVE SLEEVE TO EXPOSED DUCT. PAINT OR COVER TO BE WHITE.
- PROVIDE TRANSITION FROM RTU OPENING TO DUCT INDICATED ON PLANS. PROVIDE FLEXIBLE CONNECTION.
- RUN DUCT AS HIGH AS POSSIBLE. MINIMUM 12' A.F.F. NOZZLES TO HAVE MORE FLOW TOWARDS MIDDLE OF BUILDING.
- PROVIDE EXHAUST FAN ON ROOF. PROVIDE 14" ROOF CURB. COORDINATE WITH ROOF SLOPE. PROVIDE DUCT SAME SIZE AS EXHAUST OPENING. ROUTE TO 24" BELOW ROOF INSULATION. PROVIDE WIRE MESH AT END. FAN TO BE ON WHEN RESPECTIVE RTU OUTSIDE AIR IS OPEN AND OFF WHEN OUTSIDE AIR DAMPER IS CLOSED. PROVIDE NECESSARY RELAYS OR CONTACTOR FOR PROPER CONTROL.
- PROVIDE 36"x36" GRILLE. PROVIDE 20" PLENUM. FROM PLENUM PROVIDE TRANSITION TO SAME SIZE AS RTU OPENING.

REFERENCE CODES

- 2018 INTERNATIONAL BUILDING CODE.
- 2018 INTERNATIONAL FIRE CODE.
- 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL PLUMBING CODE
- 2017 NATIONAL ELECTRICAL CODE
- 2015 INTERNATIONAL ENERGY CONSERVATION CODE



1
M1.1
MECHANICAL FLOOR PLAN
Scale: 3/16" = 1'-0"

AIR DEVICE SCHEDULE			
MARK	MFR. & MODEL	TYPE	REMARKS
F	TITUS 350FLF1	SIDEWALL RETURN AIR GRILLE	ALUMINUM CONSTRUCTION WITH FRAME FOR SURFACE MOUNT. 3/4" BLADE SPACING, DOUBLE DEFLECTION WITH FRONT BLADES PARALLEL TO LONG DIMENSION.
NOTES: 1. REFER TO ARCHITECTURAL DRAWINGS FOR FINISH. 2. REFER TO MECHANICAL FLOOR PLAN FOR NECK SIZES.			

EXHAUST FAN SCHEDULE	
MARK	EF-1,2
SERVES	MULTIPURPOSE
TYPE/DRIVE	BELT
CFM	600
EXT. S.P. (IN. W.G.)	0.50
HORSEPOWER	1/4
RPM (MAX.)	1,010
SONES (MAX.)	0.6
VOLTS/PHASE/HERTZ	120/1/60
MANUFACTURER	GREENHECK
MODEL NUMBER	GB-091
NOTES	1,2
NOTES: 1. PROVIDE WITH BACKDRAFT DAMPER. 2. INTERLOCK FAN WITH SWITCH RTU OUTSIDE AIR.	

ROOFTOP UNIT SCHEDULE (ELECTRIC HEAT)		
FAN AND MOTOR DATA	MARK	RTU- 12.5 Ton
	SERVES	AREA
	SUPPLY AIR (CFM)	4000
	OUTSIDE AIR (CFM)	600
	MINIMUM HP (MOTOR)	5
COOLING	DRIVE	VFD
	EXT. SP. (IN W.G.)	0.8
	TOTAL COOLING (MBH)	144.3
	SENSIBLE COOLING (MBH)	105.4
	ENTERING AIR TEMP. DB/WB (F)	78.5/64.8
HEATING	LEAVING AIR TEMP. DB/WB (F)	54.4/52.6
	AMBIENT TEMP. (F)	100
	TOTAL HEATING (KW) / STAGES	18
	ENTERING AIR TEMP. DB (F)	60
	LEAVING AIR TEMP. DB (F)	74.2
ELECTRIC	VOLTS/PHASE/HERTZ	480/3/60
	MCA	45.8
	MOCP	50
	MANUFACTURER	JOHNSON CONTROLS
	MODEL	KB150E18R4BDBCL6E1
GENERAL	NOMINAL TONS	12.5
	I.E.E.R./E.E.R. (ARI)	16.0 IEER/ 12.2 EER
	WEIGHT (LBS)	1,415
	NOTES	1,2,3,5,6,7,8,9,10,11
	NOTES: 1. PROVIDE SINGLE POINT ELECTRICAL CONNECTION. 2. PROVIDE FACTORY MOUNTED CONDENSER COIL GUARD. 3. PROVIDE DUAL ENTHALPY ECONOMIZER. 4. PROVIDE WITH FACTORY INSTALLED HOT GAS REHEAT DEHUMIDIFICATION. 5. PROVIDE WITH CO2 DEMMAND CONTROL VENTILATION. 6. PROVIDE WITH FACTORY INSTALLED SIMPLICITY CONTROLLER WITH BACNET INTERFACE. 7. PROVIDE WITH UNIT POWERED ELECTRIC GFCI OUTLET. 8. PROVIDE FACTORY SPACE TEMP SENSOR AND HUMIDITY SENSOR. 9. PROVIDE FACTORY INSTALLED VFD FOR SINGLE ZONE VAV OPERATION. 10. PROVIDE UNIT WITH SIDE SUPPLY AND RETURN CONNECTIONS. MOUNT UNIT ON MIN 6" CONCRETE PAD WITH NEOPRENE PAD. 11. CONTACT TEXAS AIRSYSTEMS FOR PRICING AND AVAILABILITY AT (956)566-9540 OR CARLOS.CASTANEDA@TEXASAIRSYSTEMS.COM	



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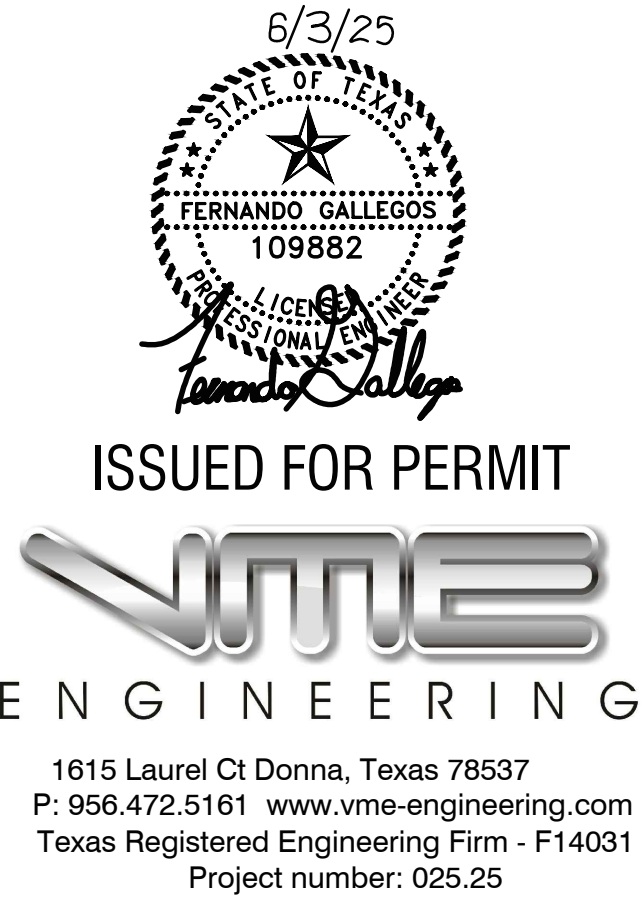
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No.	Description	Date
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PROJECT #: 25-030102
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MECHANICAL
SCHEDULES

M2.0





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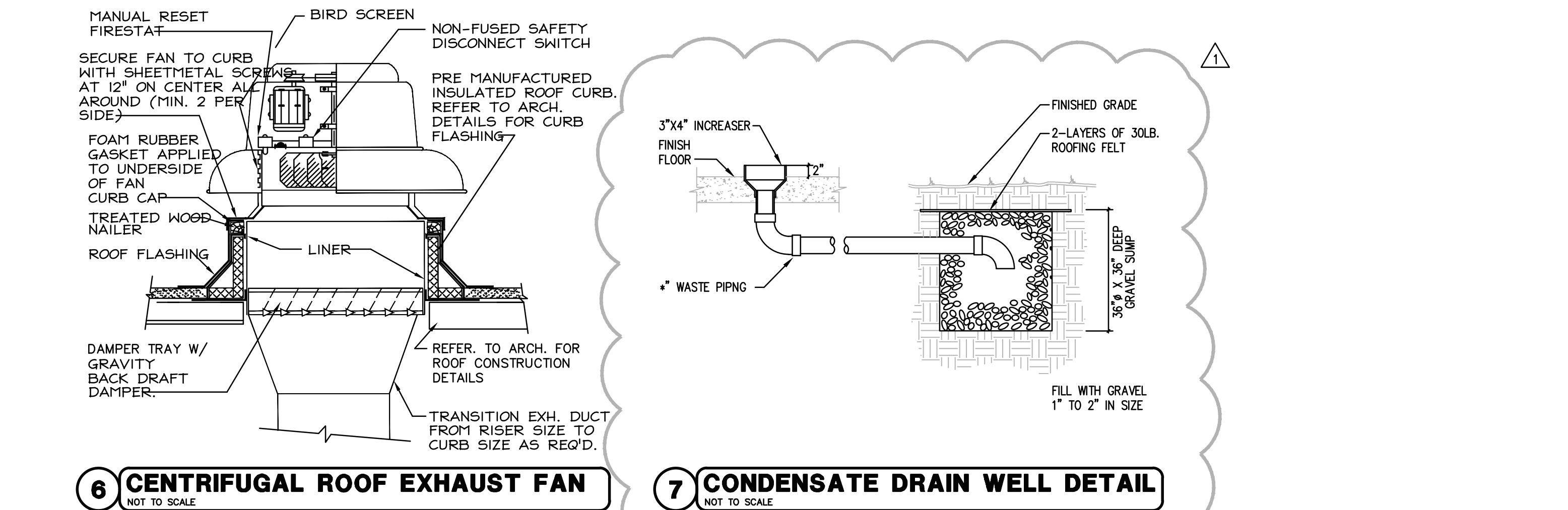
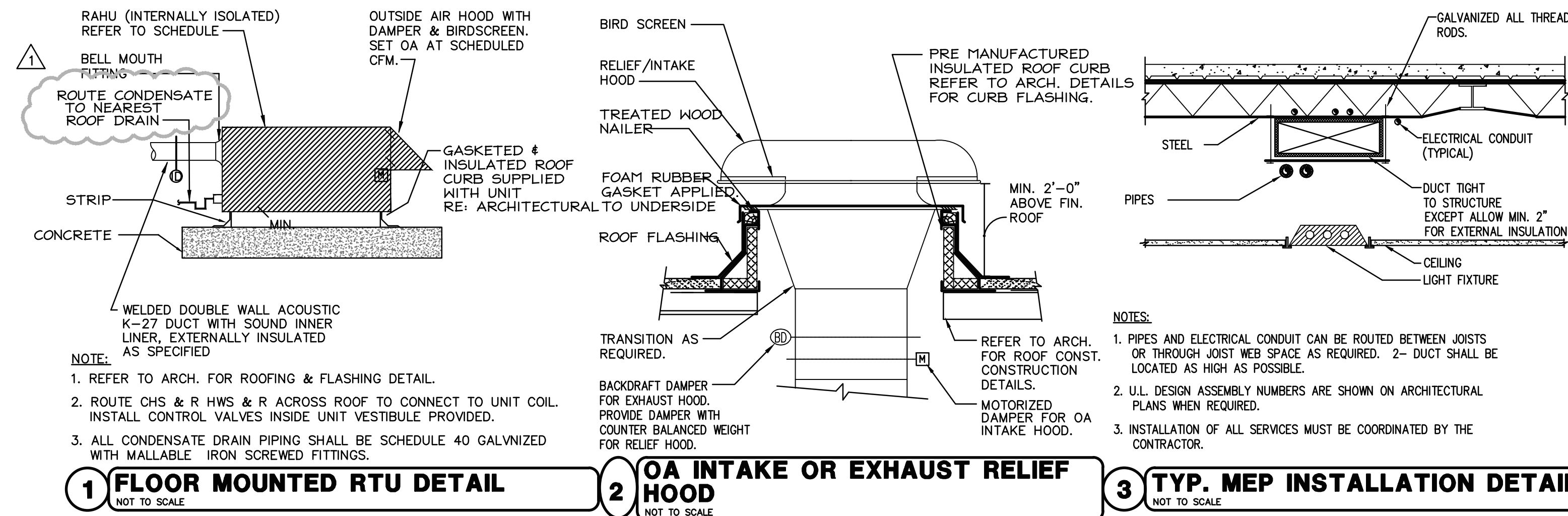
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MECHANICAL
DETAILS

M3.0



6/3/25
STATE OF TEXAS
FERNANDO CALLEGOS
109882
ISSUED FOR PERMIT
ENGINEERING
1615 Laurel Ct Donna, Texas 78537
P: 956.472.5161 www.vme-engineering.com
Texas Registered Engineering Firm - F14031
Project number: 025.25



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ELECTRICAL POWER FLOOR PLAN

E1.1



1. PROVIDE 120V POWER FOR MOTORIZED OVERHEAD DOOR. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH DOOR INSTALLER PRIOR TO PLACEMENT. PROVIDE MOTOR W/ DOWN SWITCH.
2. PROVIDE BACK BOX FOR UP/ DOWN PUSHBUTTON CONTROL STATION FOR MOTORIZED OVERHEAD DOOR. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH DOOR INSTALLER PRIOR TO ROUGH-IN. ROUTE (1) 3/4" CONDUIT FROM CONTROL WIRE TO MOTORIZED DOOR CONTROL BOX.
3. PROVIDE HUBBELL 4-GANG FLOOR BOX #FGB303OR WITH (2) # PWBFBPMCR20GYTR DUPLEX RECEPTACLES, #F08HB2 HUB AND #F08GBR0CVR COVER. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH ARCHITECT AND OWNER PRIOR TO PLACEMENT. ROUTE (1) 3/4" UNDERGROUND CONDUIT FOR POWER WIRING AND (1) 2" UNDERGROUND CONDUIT WITH PULL-STRING FOR DATA CABLEING TO NEAREST WALL AND UP TO STRUCTURE.
4. PROVIDE 60A/3P/NF/NSR SAFETY DISCONNECT FOR ROOF TOP UNIT. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO PLACEMENT.
5. PROVIDE FIRE ALARM SYSTEM SHUT DOWN RELAY FOR HVAC EQUIPMENT. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO PLACEMENT.
6. PROVIDE DUCT SMOKE DETECTOR FOR HVAC EQUIPMENT SHUT DOWN. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO PLACEMENT.
7. PROPOSED LOCATION FOR SERVICE EQUIPMENT AND POWER COMPANY METERING GEAR. REFER TO ONE LINE DIAGRAM AND SITE PLANS FOR ADDITIONAL INFORMATION.
8. PROVIDE QAC RECEPTACLE AND DATA OUTLET FOR I.T. RACK. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO PLACEMENT.
9. PROVIDE QAC RECEPTACLE AND DATA OUTLET FOR SOUND EQUIPMENT. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH AV CONTRACTOR PRIOR TO ROUGH-IN.

ELECTRICAL GENERAL NOTES:

- A. ELECTRICAL CONTRACTOR SHALL GROUP HOMERUNS WITH THREE HOTS (A,B, AND C PHASE), AND #10 NEUTRAL TO PROVIDE MULTI-WIRE BRANCH CIRCUITS. NO MORE THAN 2 MULTI-WIRE HOMERUNS PER CONDUIT. CONTRACTOR SHALL PROVIDE HANDLE TIES MANUFACTURED BY THE SWITCH GRAB SUPPLIER ON ALL MULTI-WIRE CIRCUITS TO MEET THE REQUIREMENTS OF ARTICLE 210.4(B) OF THE 2020 NEC. AT THE CONTRACTOR'S OPTION, TWO AND THREE POLE BREAKERS MAY BE USED.
- B. CONTRACTOR SHALL VERIFY DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN REFER TO ARCHITECTURAL CASEWORK AND MILLWORK ELEVATIONS.
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, OUTLET BOXES, JUNCTION BOXES FOR ALL TECHNOLOGY DEVICE OUTLETS. REFER TO DIVISION 26 SPECIFICATIONS AND TECHNOLOGY DRAWINGS FOR ALL WORK REQUIRED.
- D. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL EXHAUST FAN CONTROLS. PROVIDE A FAN SWITCH IF INDICATED BY MECHANICAL. ALL EXHAUST FANS SHALL BE PROVIDED WITH BUILT-IN DISCONNECT SWITCH.
- E. HVAC AND PLUMBING EQUIPMENT MAY DIFFER FROM LOCATIONS AS SHOWN ON ELECTRICAL DRAWINGS. COORDINATE EXACT LOCATIONS WITH MECHANICAL AND PLUMBING CONTRACTOR.
- F. CONTRACTOR SHALL INDICATE CIRCUIT SERVING EACH RECEPTACLE BY PROVIDING TYPE WRITTEN LABELING LOCATED ON INSIDE FACE OF EACH RECEPTACLE COVER PLATE.
- G. ELECTRICAL CONTRACTOR SHALL ROUTE ELECTRICAL CONDUIT AND WIRING TO ALL ROOF HVAC EQUIPMENT THROUGH ROOF CURBS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- H. CONTRACTOR SHALL ARRANGE PANELBOARDS IN ELECTRICAL ROOM TO PROVIDE CLEARANCE PER NEC 110.26.
- I. MECHANICAL CONTRACTOR SHALL FURNISH INTEGRAL DISCONNECT SWITCH FOR ALL MECHANICAL EQUIPMENT. ELECTRICAL CONNECTIONS SHALL BE PROVIDED BY DIVISION 26.
- J. DAMPS WITH DAMPER ONLY SHALL BE CONNECTED BY MECHANICAL CONTRACTOR.
- K. PROVIDE JUNCTION BOX AND POWER FOR ALL HARD WIRED PLUMBING FLUSH VALVES AND SENSOR EQUIPMENT TRANSFORMERS FROM NEAREST 120V/20A CIRCUIT. COORDINATE WITH PLUMBER PRIOR TO ROUGH-IN FOR EXACT LOCATION.
- L. ALL RECEPTACLES LOCATED IN RESTROOMS, JANITOR CLOSETS, MECHANICAL ROOMS, SERVING ELECTRIC DRINKING FOUNTAINS OR VENDING MACHINES, LOCATED WITHIN 6' OF SINKS LOCATED ABOVE A NET COUNTERTOP OR IN A KITCHEN OR COFFEE BAR SHALL BE GFCI. EACH GFCI PROTECTED RECEPTACLE SHARING THE SAME CIRCUIT SHALL HAVE ITS OWN R-SET AND TEST BUTTON.

6/3/25

STATE OF TEXAS

FERNANDO GALLEGOS

109882

THE PROFESSIONAL ENGINEER

Fernando Gallegos

ISSUED FOR PERMIT



Project number: 025.25

1 E1.1 ELECTRICAL POWER FLOOR PLAN - TYPICAL BLDG. Scale: 3/16" = 1'-0"



TEXAS ARCHITECT
FIRM No: BR4247
WWW.CG5ARCHITECT.COM

SEAL:

ECISD HIGH
SCHOOL
ATHLETIC
MULTI-USE
BUILDING
25-74

EDINBURG
NORTH HIGH
SCHOOL

3101 N
Closner Blvd,
Edinburg, TX
78541

CLIENT:

EDINBURG CISD

REVISION:

No.	Description	Date
1	ADDENDUM #2	06-03-2025

PROJECT #: 25-030102

DRAWN BY: N.M.

CHECKED BY: CG3

DATE: 4/28/25

ELECTRICAL
LIGHTING
FLOOR PLAN

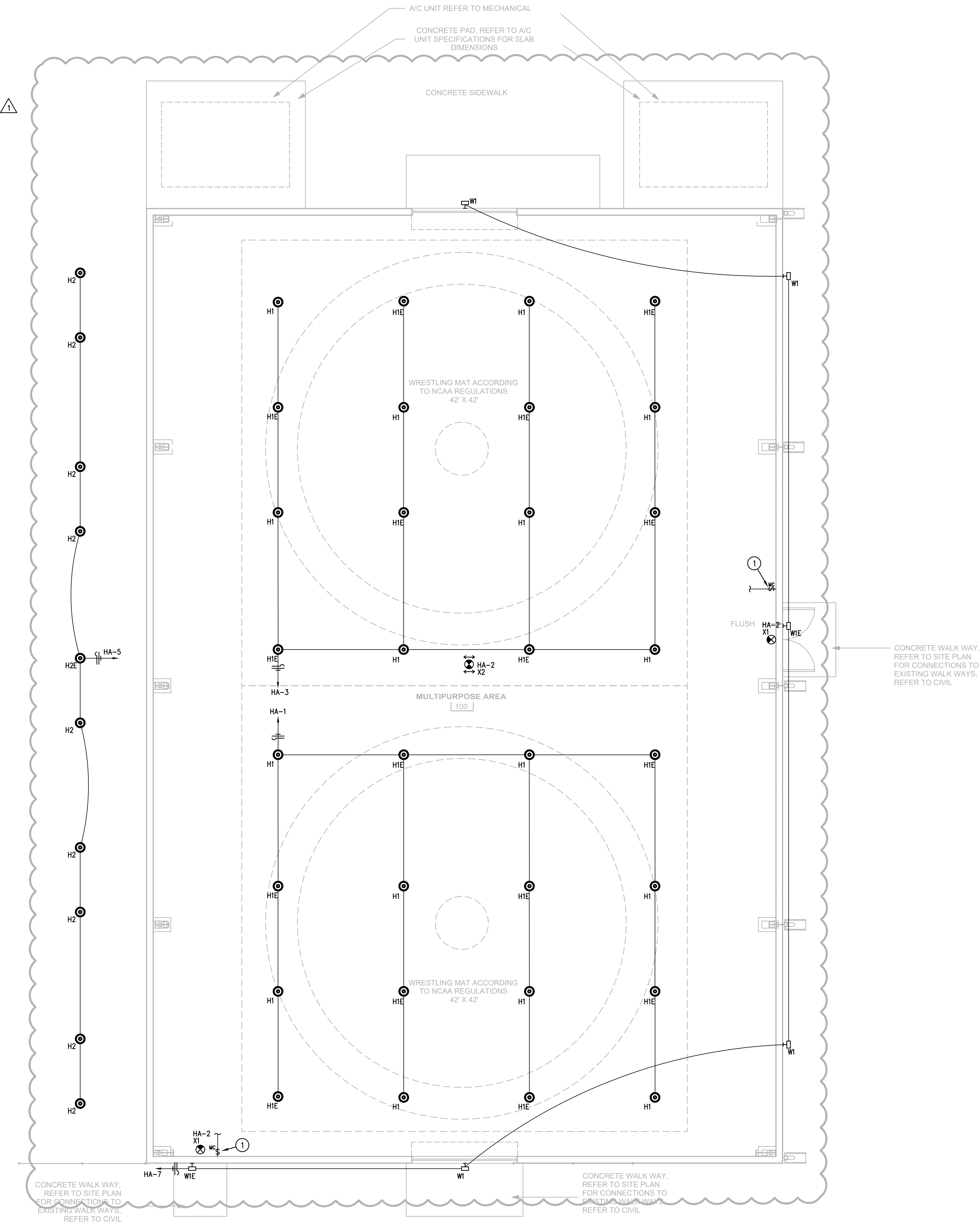


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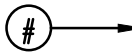


1615 Laurel Ct Donna, Texas 78537
P: 956.472.5161 www.vme-engineering.com
Texas Registered Engineering Firm - F14031
Project number: 025.25

E1.2



ELECTRICAL KEYED NOTES:

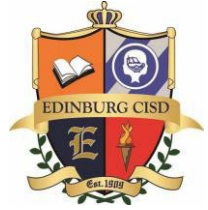


1. PROVIDE MOMENTARY CONTACT SWITCH ROUTED TO INTERIOR LIGHTING LIGHTING CONTACTOR.

ELECTRICAL GENERAL NOTES:

- A. ALL CEILING MOUNTED OCCUPANCY SENSORS SHALL BE HUBBELL (WATTSTOPPER) #OMDT-2000 (#DT-300). PROVIDE (#BZ-50 UNIVERSAL VOLTAGE) POWER PACKS AND OVERRIDE SWITCHES AS REQUIRED FOR CONTROL INDICATED.
- B. ALL WALL MOUNTED OCCUPANCY SENSORS SHALL BE HUBBELL (WATTSTOPPER) #LHMTS1 (DSW-100).
- C. ALL CEILING MOUNTED DEVICES LOCATED IN LAY-IN CEILINGS SHALL BE CENTERED IN THE CEILING TILE.
- D. ALL WALL BOX DIMMERS SHALL BE LUTRON NT SERIES UNLESS NOTED OTHERWISE.
- E. MULTIPLE SWITCHES SHOWN TOGETHER SHALL BE GANGED UNDER A COMMON COVER PLATE.
- F. PROVIDE UN-SWITCHED CIRCUIT TO ALL EXIT SIGNS.
- G. CONTRACTOR SHALL INDICATE LIGHTING CIRCUIT CONTROLLED BY EACH SWITCH BY PROVIDING TYPE WRITTEN LABELING LOCATED ON INSIDE FACE OF EACH SWITCH COVER PLATE.
- H. SPRINKLER CONTRACTOR SHALL COORDINATE SPRINKLER HEAD LOCATIONS WITH CEILING MOUNTED LIGHTING FIXTURES.
- I. FIXTURES DESIGNATED "NL" SHALL BE UNSWITCHED NIGHTLIGHT. FIXTURES SHALL BE CONNECTED TO EMERGENCY CIRCUIT INDICATED.
- J. PROVIDE ALL EMERGENCY LIGHT FIXTURES WITH UNSWITCHED HOT LEG AS DEFINED IN NEC 700.12
- K. ROUTE AN UNSWITCHED HOT LEG TO ALL LIGHT FIXTURES DESIGNATED AS EMERGENCY FIXTURES. HOT LEG SHALL ORIGINATE FROM CIRCUIT SERVING NORMAL LIGHTING FIXTURES IN THAT SPACE. UNSWITCHED HOT LEG SHALL CONNECT TO THE NORMAL POWER SENSING LUG ON THE EMERGENCY BATTERY PACK.
- L. LOWER CASE CHARACTER ADJACENT TO SWITCH AND/OR LIGHTING FIXTURE INDICATES SWITCHING GROUP.

1
E1.2 ELECTRICAL LIGHTING FLOOR PLAN - TYPICAL BLDG.
Scale: 3/16" = 1'-0"



ECONOMEDES HIGH SCHOOL

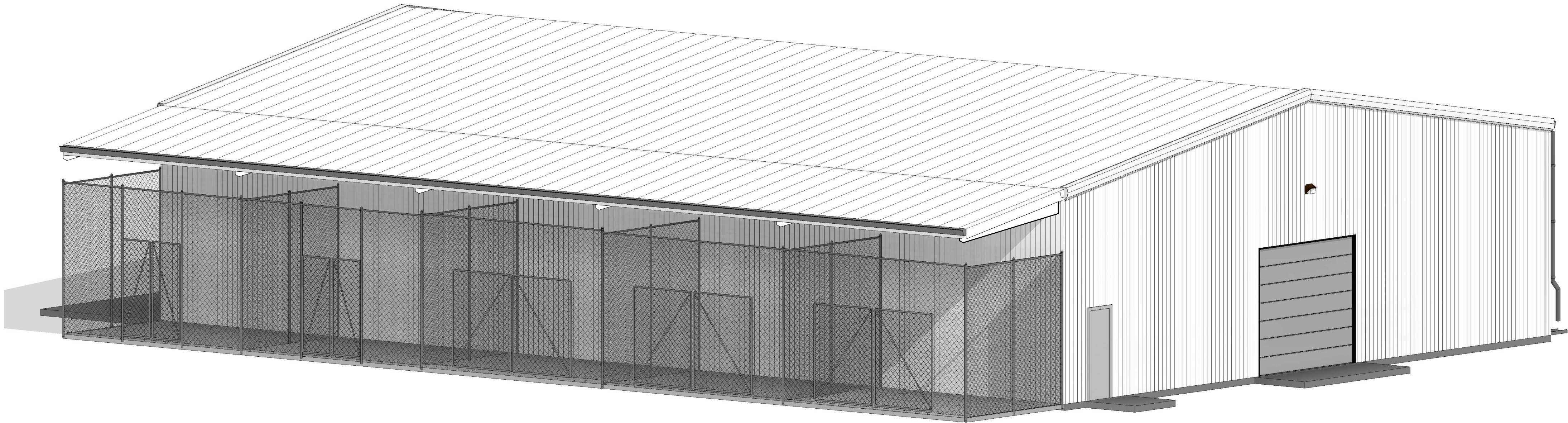


ECISD HIGH SCHOOL ATHLETIC MULTI-USE BUILDING

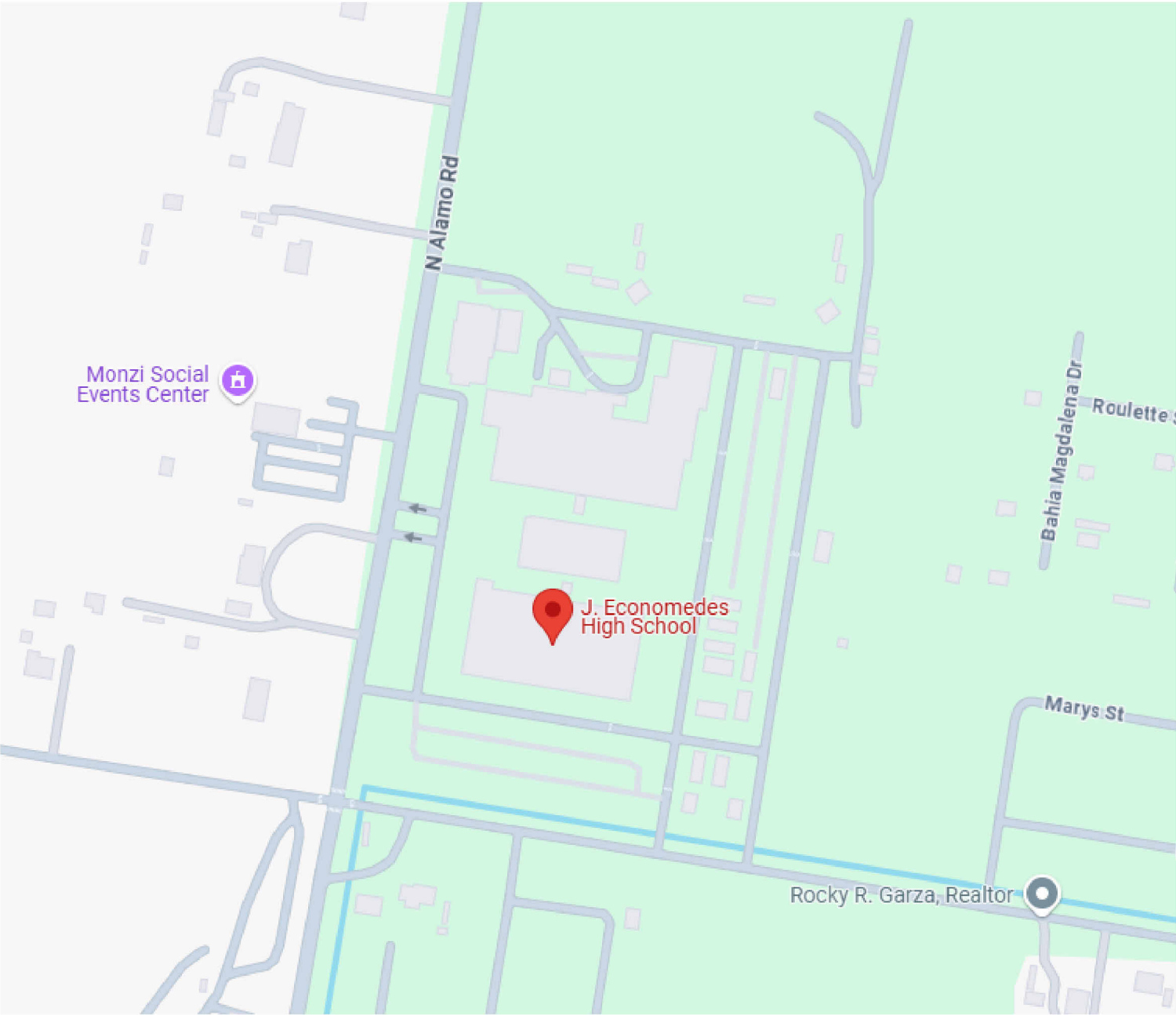
J. ECONOMEDES HIGH SCHOOL

411 N 8TH AVE, EDINBURG,
TX 78541

ECISD CSP 25-74

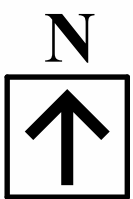


VICINITY MAP:



GENERAL INFO:

J. ECONOMEDES HIGH SCHOOL:
1414 N Alamo Rd, Edinburg, TX 78542



INDEX OF DRAWINGS	
Sheet Number	Sheet Name
GENERAL	
G0.0	COVER PAGE
G1.0	ADA INFORMATION
G1.1	ADA INFORMATION
G1.2	ADA INFORMATION
G1.3	CODE REVIEW PLAN
STRUCTURAL	
A3.1	ALTERNATE ROOF FRAMING PLAN
S1.0	GENERAL NOTES
S1.1	GENERAL NOTES
S1.2	GENERAL NOTES
S2.0	FOUNDATION PLAN
S3.0	ROOF FRAMING PLAN
S3.1	ALTERNATE ROOF FRAMING PLAN
SD1.0	DETAILS

INDEX OF DRAWINGS	
Sheet Number	Sheet Name
ARCHITECTURAL	
SD2.0	DETAILS
A2.0	FLOOR PLAN BASE BID
A2.0A	FLOOR PLAN ALTERNATE
A2.1	ROOF PLAN BASE BID
A2.1A	ROOF PLAN ALTERNATE
A2.3	REFLECTED CEILING PLAN BASE BID
A2.3A	REFLECTED CEILING PLAN ALTERNATE
A3.0	EXTERIOR ELEVATIONS BASE BID
A3.0A	EXTERIOR ELEVATIONS ALTERNATE
A4.0	BUILDING SECTIONS BASE BID
A4.0A	BUILDING SECTIONS ALTERNATE
A4.1	WALL SECTIONS AND DETAILS BASE BID

INDEX OF DRAWINGS	
Sheet Number	Sheet Name
MEP	
A7.0	DOOR SCHEDULE
E0.0	ELECTRICAL NOTES
E1.0	ELECTRICAL SITE
E1.1	ELECTRICAL POWER
E1.2	ELECTRICAL LIGHTING
E2.0	ELECTRICAL ONE-LINE DIAGRAM
E3.0	ELECTRICAL SCHEDULES
E4.0	ELECTRICAL DETAILS
E5.0	ELECTRICAL SPECIFICATIONS
E5.1	ELECTRICAL SPECIFICATIONS
M0.0	MECHANICAL LEGEND
M1.0	MECHANICAL SITE
M1.1	MECHANICAL FLOOR PLAN
M2.0	MECHANICAL SCHEDULES
M3.0	MECHANICAL DETAILS

PROJECT INFORMATION	
ADDRESS:	1414 N Alamo Rd, Edinburg, TX 78542
ARCHITECT OF RECORD:	JOSE CARLOS GARCIA III, RA, AIA TBAE: # 22658 TBAE FIRM: BR 4247 CG5 ARCHITECT LLC 1314 E 22ND ST. MISSION, TX, 78572
OWNER:	EDINBURG CISD
PROJECT DESCRIPTION:	MULTIPURPOSE BUILDINGS

CIVIL



2105 S. JACKSON RD.
EDINBURG, TX 78539
(956) 281-1818

STRUCTURAL



701 S 15TH ST.
MCALLEN, TX 78501
(956) 687-5560
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M.E.P.



1706 MILLER AVE.
DONNA, TX 78537
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TEXAS ARCHITECT
FIRM No: BR4247
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ECISD HIGH SCHOOL
ATHLETIC
MULTI-USE
BUILDING
ECISD CSP 25-74

J.
ECONOMEDES
HIGH SCHOOL

1414 N Alamo
Rd, Edinburg,
TX 78542

CLIENT:
EDINBURG CISD

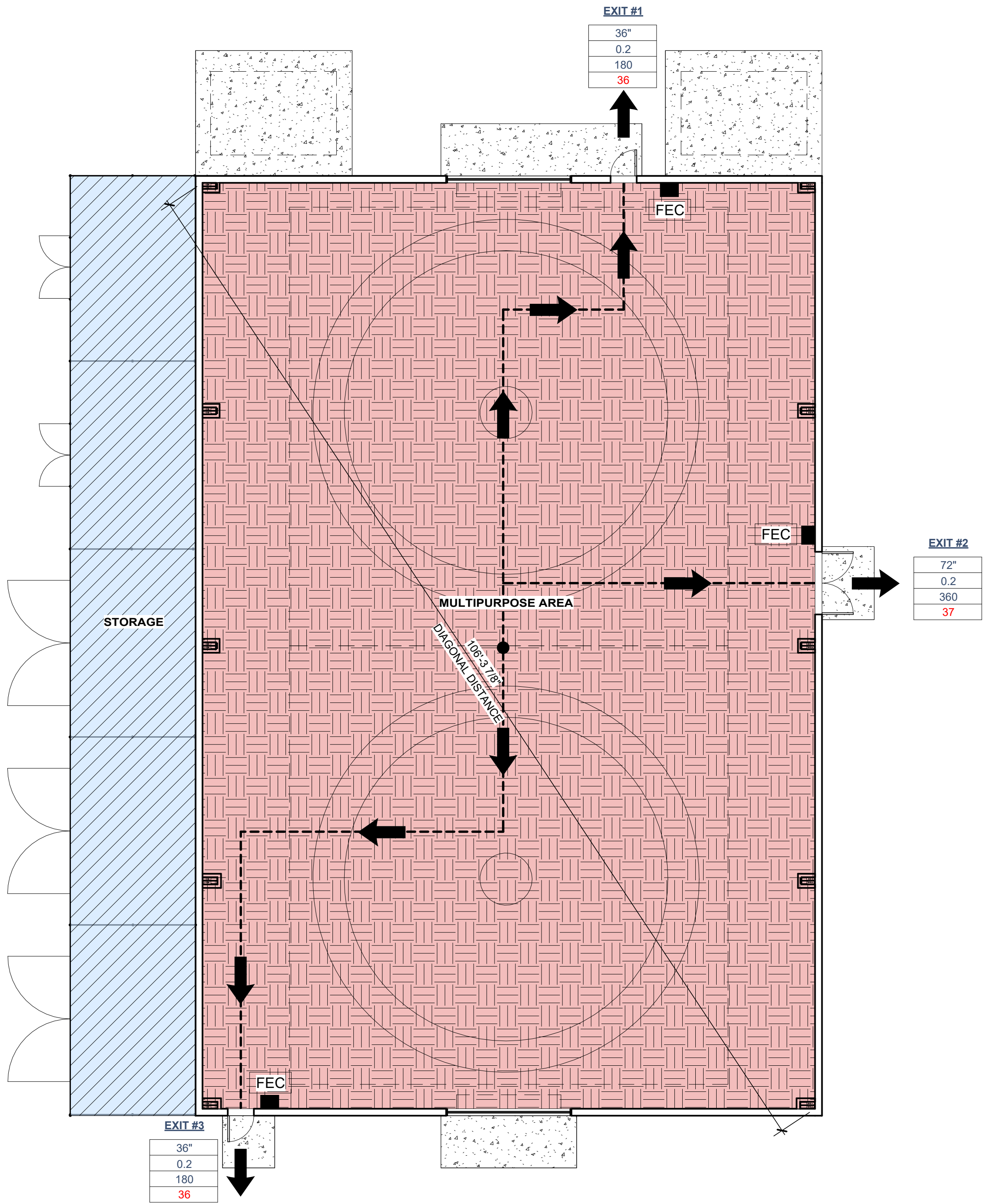
REVISION:		
No.	Description	Date
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PROJECT #: 25-030102
DRAWN BY: EC
CHECKED BY: CG3
DATE: 5/28/2025




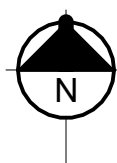
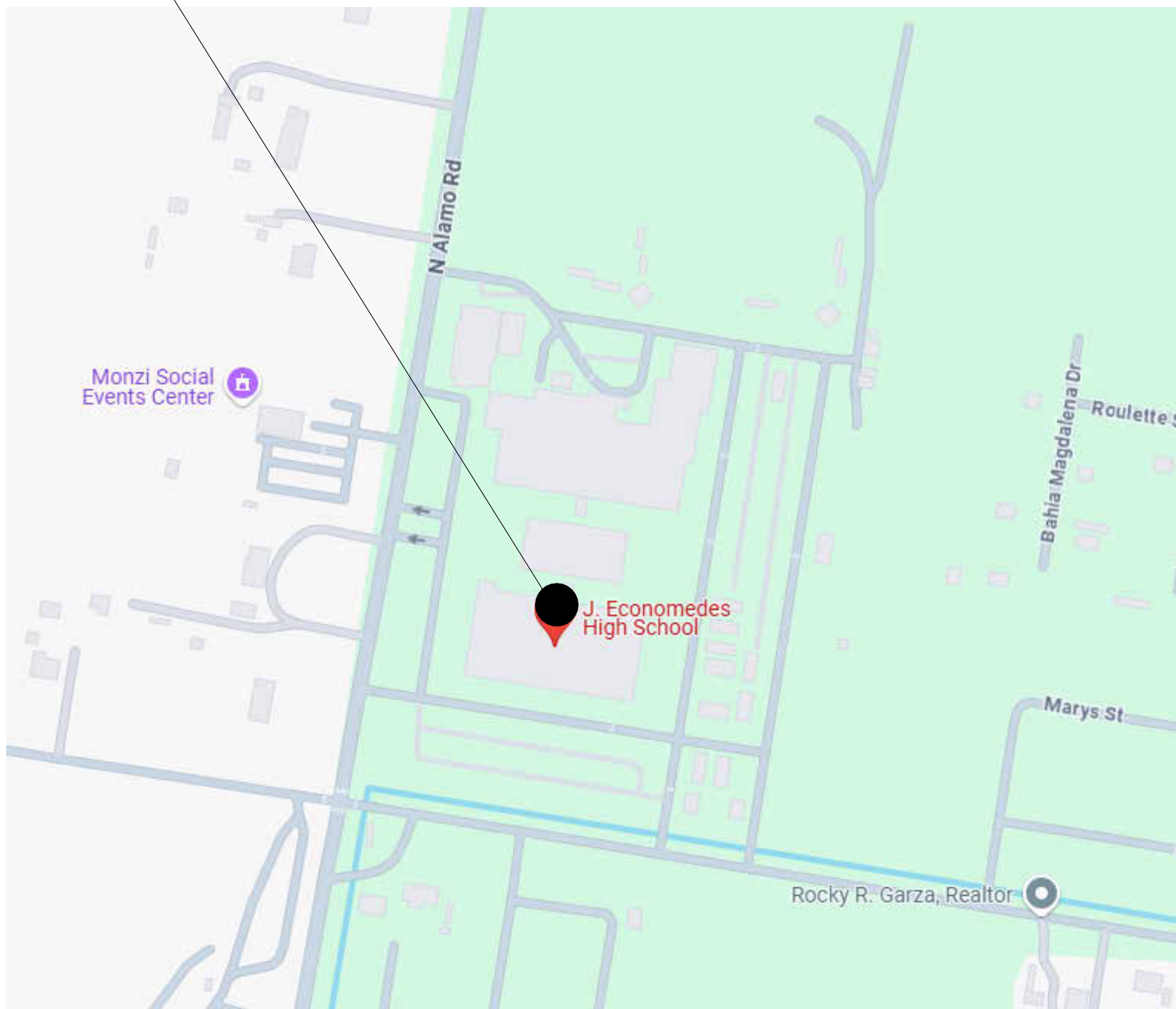
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G0.0

ECISD HIGH SCHOOL ATHLETIC MULTI-USE BUILDING



PROJECT INFORMATION		BUILDING ANALYSIS		PARKING REQUIREMENTS		PLUMBING REQUIREMENTS											
<div>LOCATION:1414 N Alamo Rd, Edinburg, TX 78542</div> <div>ARCHITECT OF RECORD:JOSE CARLOS GARCIA III, RA, AIA TBAE: # 22658 TBAE FIRM: BR 4247 CG5 ARCHITECT LLC 1314 E 22ND ST. MISSION, TX, 78572</div> <div>OWNER:ECISD</div> <div>PROJECT DESCRIPTION: NEW ATHLETIC MULTI-USE BUILDING</div>		<div>OCCUPANCY ANALYSIS</div> <div>PROPOSED OCCUPANCY:ASSEMBLY "A-3"</div> <div>CONSTRUCTION TYPE:V B</div> <div>ALLOWABLE BUILDING STORIES:1</div> <div>PROPOSED STORIES:1</div> <div>ALLOWABLE BUILDING HEIGHT:40 FT</div> <div>ACTUAL BUILDING HEIGHT:22 FT</div> <div>ALLOWABLE BUILDING AREA:6,000 SF</div> <div>TOTAL BUILDING AREA:5,400 SF</div>		<div>PARKING REQUIREMENTS:</div> <div>EXISTING PARKING PROVIDED</div>		<div>CITY OF EDINBURG (IPC 2018)</div> <div>EXISTING RESTROOM FIXTURES PROVIDED AT ADJACENT BUILDING. PATH OF TRAVEL NO MORE THAN 500FT MAX.</div> <div>PROPOSED PATH OF TRAVEL: 312 FT</div> <div>EXISTING RESTROOMS TO REMAIN</div> <table><tr><td colspan="2">REQ'D PROVIDED</td></tr><tr><td>W.C. MEN</td><td>W.C. WOMEN LAVATORY</td></tr><tr><td>3</td><td>34</td></tr><tr><td>DRINKING FOUNTAIN</td><td>SERVICE SINK</td></tr><tr><td>2</td><td>1</td></tr></table>		REQ'D PROVIDED		W.C. MEN	W.C. WOMEN LAVATORY	3	34	DRINKING FOUNTAIN	SERVICE SINK	2	1
REQ'D PROVIDED																	
W.C. MEN	W.C. WOMEN LAVATORY																
3	34																
DRINKING FOUNTAIN	SERVICE SINK																
2	1																
CONSTRUCTION COMPONENTS		APPLICABLE CODES		FIRE SAFTY COMPONENTS													
<div>MATERIALS</div> <div><ul style="list-style-type: none">STEEL STRUCTURAL FRAMEMETAL STUD INTERIOR FRAMINGMETAL EXTERIOR FINISH</div>		<div>2018 INTERNATIONAL BUILDING CODE</div> <div>2018 INTERNATIONAL PLUMBING CODE</div> <div>2018 INTERNATIONAL FUEL GAS CODE</div> <div>2017 NATIONAL ELECTRICAL CODE</div> <div>2018 INTERNATIONAL MECHANICAL CODE</div> <div>2018 INTERNATIONAL FIRE CODE</div>		<div>FIRE SPRINKLER REQUIRED: NO</div> <div>FIRE SPRINKLER PROVIDED: NO</div> <div>FIRE RATING REQUIREMENTS</div> <div>PRIMARY STRUCTURAL FRAME: NO FIRE RATING REQ'D</div> <div>BEARING WALLS EXTERIOR: NO FIRE RATING REQ'D</div> <div>BEARING WALLS INTERIOR: NO FIRE RATING REQ'D</div> <div>NONBEARING WALL EXTERIOR: NO FIRE RATING REQ'D</div> <div>NONBEARING WALL INTERIOR: NO FIRE RATING REQ'D</div> <div>FLOOR CONSTRUCTION: NOT APPLICABLE</div> <div>ROOF CONSTRUCTION: NO FIRE RATING REQ'D</div>													

CODE GENERAL NOTES	CODE COIMPLICANCE LEGEND												
<div>1. SEPARATE REVIEW, APPROVAL, AND PERMITS ARE REQUIRED FOR GRADING, ACCESSORY BUILDINGS & STRUCTURES, SIGNS, TRASH ENCLOSURES, BLOCK WALLS, RETAINING WALLS NOT SUPPORTING BUILDINGS, AND DEMOLITION WORK. CONTACT CITY FOR PROCEDURAL INFORMATION.</div> <div>2. PROJECT INFORMATION AND CODE GENERAL NOTES ARE INTENDED FOR CODE COMPLIANCE SUCH AS OVERALL OCCUPANCY, EGRESS INFORMATION, FIRE SEPARATION AND GENERAL INFORMATION ONLY.</div> <div>3. A FIRE SYSTEM APPROVED BY THE FIRE MARSHALL SHALL BE PROVIDED. AUDIBLE ALARM DEVICES SHALL BE USED IN ALL AREAS.</div> <div>4. AN OCCUPANT LOAD SIGN SHALL BE POSTED IN ANY ROOM WITH AN OCCUPANT LOAD OVER 50. THE SIGN IS REQUIRED TO BE POSTED AT OR NEAR THE MAIN EXIT.</div> <div>5. PROVIDE PANIC HARDWARE FOR GROUP "A" OCCUPANCIES WITH AN OCCUPANT LOAD OF 50 OR MORE.</div> <div>6. MARKING OF FIRE RATED AND SMOKE STOP PARTITIONS: ALL SMOKE STOP PARTITIONS, HORIZONTAL EXIT ENCLOSURES, AND FIRE WALLS MUST BE PERMANENTLY MARKED ABOVE CEILINGS AS FOLLOWS: "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS". LETTERS SHALL BE 2 1/2" IN HEIGHT AND PAINTED RED. PROVIDE ONE LABEL PER STRUCTURAL BAY.</div>	<div><div><div><div>CODE COMPLIANCE LEGEND</div><table><tr><th>SYMBOL</th><th>DESCRIPTION</th><th>COMMENTS</th></tr><tr><td></td><td>EGRESS EXIT PATH</td><td></td></tr><tr><td>FEC</td><td>FIRE EXTINGUISHER</td><td>F.E. Type - 10# ABC, Amerex Model #419 or equal, Installed in Semi-Recessed cabinet</td></tr></table></div><div><div><div>OCCUPANT TRAVEL DISTANCE:</div><div><div>EA:</div><div>MAX: 250'-0"</div></div><div><div>EXIT ACCESS TRAVEL PATH</div><div>EXIT MAXIMUM TRAVEL DISTANCE (IBC TABLE 1017.2)</div></div></div><div><div>EXIT # TAG:</div><div><div>EXIT #</div><div>72"</div><div>0.2</div><div>360</div><div>87</div></div><div><div>EXIT NUMBER</div><div>PROVIDED EXIT WIDTH</div><div>OCCUPANT LOAD FACTOR</div><div>MAXIMUM OCCUPANTS</div><div>ACCUMULATED OCCUPANTS EXITING</div></div></div></div></div></div>	SYMBOL	DESCRIPTION	COMMENTS		EGRESS EXIT PATH		FEC	FIRE EXTINGUISHER	F.E. Type - 10# ABC, Amerex Model #419 or equal, Installed in Semi-Recessed cabinet			
SYMBOL	DESCRIPTION	COMMENTS											
	EGRESS EXIT PATH												
FEC	FIRE EXTINGUISHER	F.E. Type - 10# ABC, Amerex Model #419 or equal, Installed in Semi-Recessed cabinet											
<div>BUILDING OCCUPANCY TOTAL:</div>													
<table><tr><th>CALCULATED AREA SF</th><th>OCCUPANTS</th><th>FUNCTIONS OF SPACE PER OCCUPANCY TABLE</th></tr><tr><td><div><div></div>5,202 SF</div></td><td>105</td><td>EXERCISE ROOM (50 GROSS)</td></tr><tr><td><div><div></div>1,080</div></td><td>4</td><td>STORAGE (300 GROSS)</td></tr><tr><td colspan="2">TOTAL OCCUPANTS:</td><td>109</td></tr></table>		CALCULATED AREA SF	OCCUPANTS	FUNCTIONS OF SPACE PER OCCUPANCY TABLE	<div><div></div>5,202 SF</div>	105	EXERCISE ROOM (50 GROSS)	<div><div></div>1,080</div>	4	STORAGE (300 GROSS)	TOTAL OCCUPANTS:		109
CALCULATED AREA SF	OCCUPANTS	FUNCTIONS OF SPACE PER OCCUPANCY TABLE											
<div><div></div>5,202 SF</div>	105	EXERCISE ROOM (50 GROSS)											
<div><div></div>1,080</div>	4	STORAGE (300 GROSS)											
TOTAL OCCUPANTS:		109											
<div>VICINITY MAP</div>													
<div><div><div><div><div>PROPOSED ATHLETIC MULTI-USE BUILDING</div><div>1414 N Alamo Rd, Edinburg, TX 78542</div></div><div><div>TRUE NORTH</div><div></div></div><div></div></div></div></div>													

TEXAS ARCHITECT
FIRM No: BR4247
WWW.CG5ARCHITECT.COM

SEAL:
6-4-2025
REGISTERED ARCHITECT
JOSE C. GARCIA III
STATE OF TEXAS
22658

ECISD HIGH SCHOOL ATHLETIC MULTI-USE BUILDING
ECISD CSP 25-74

J. ECONOMEDES
HIGH SCHOOL

1414 N Alamo Rd, Edinburg, TX 78542

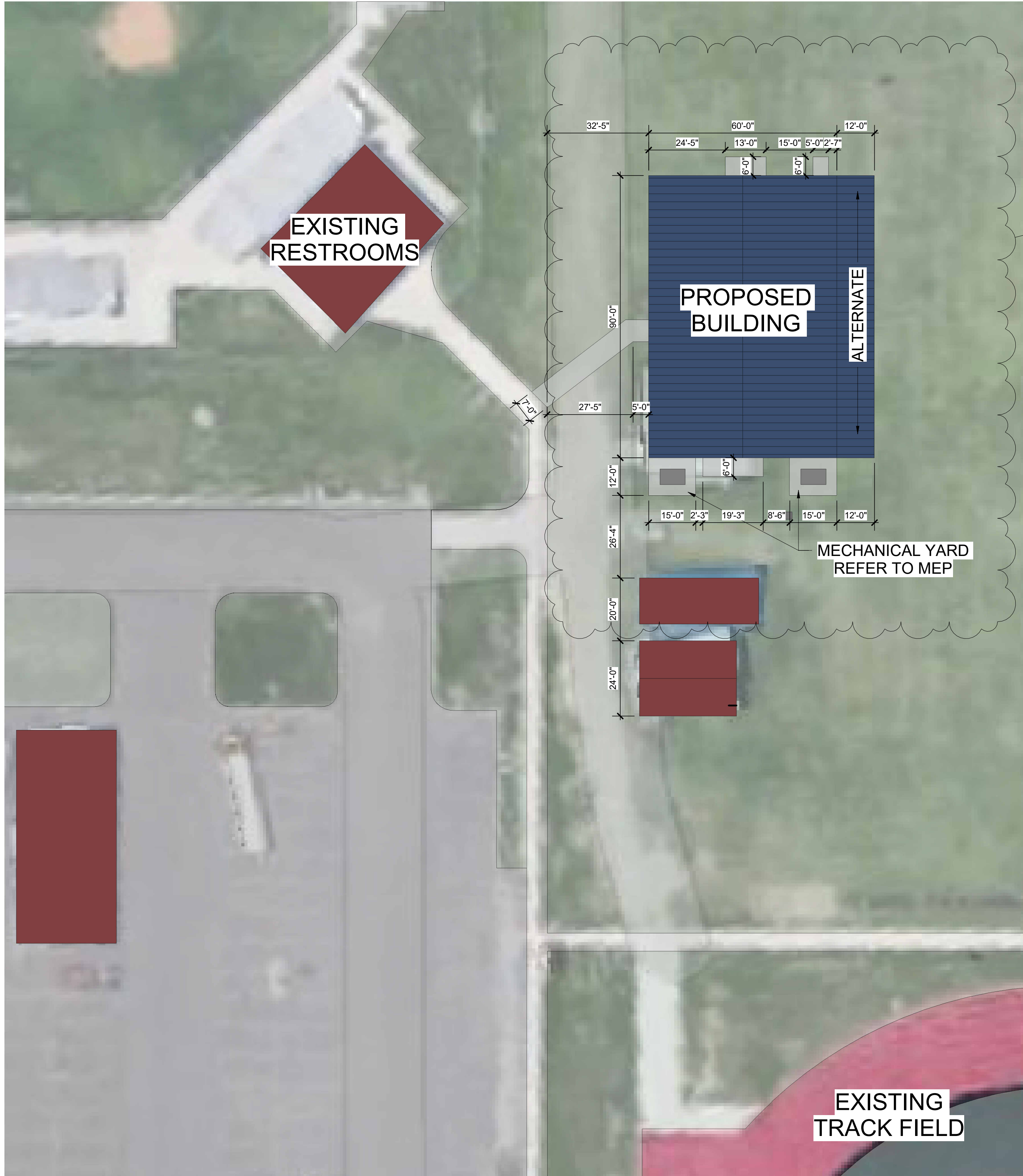
CLIENT:
EDINBURG CISD

REVISION:
No. Description Date
1 ASI 1 5/28/2025

PROJECT #: 25-030102
DRAWN BY: EC
CHECKED BY: CG3
DATE: 5/28/2025

CODE REVIEW PLAN

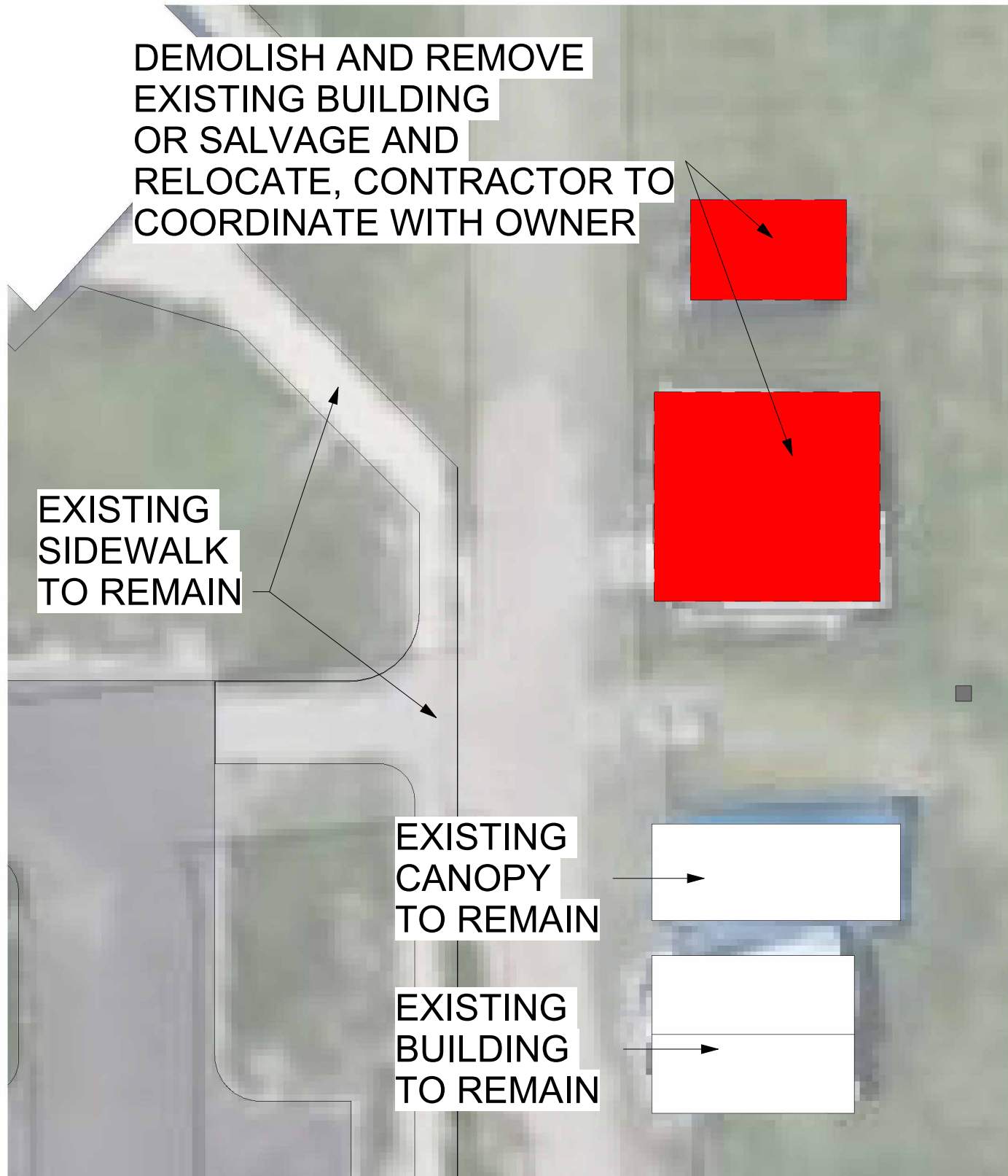
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2 ENLARGE SITE PLAN
3/64" = 1'-0"

N

J. ECONOMEDES HIGH SCHOOL

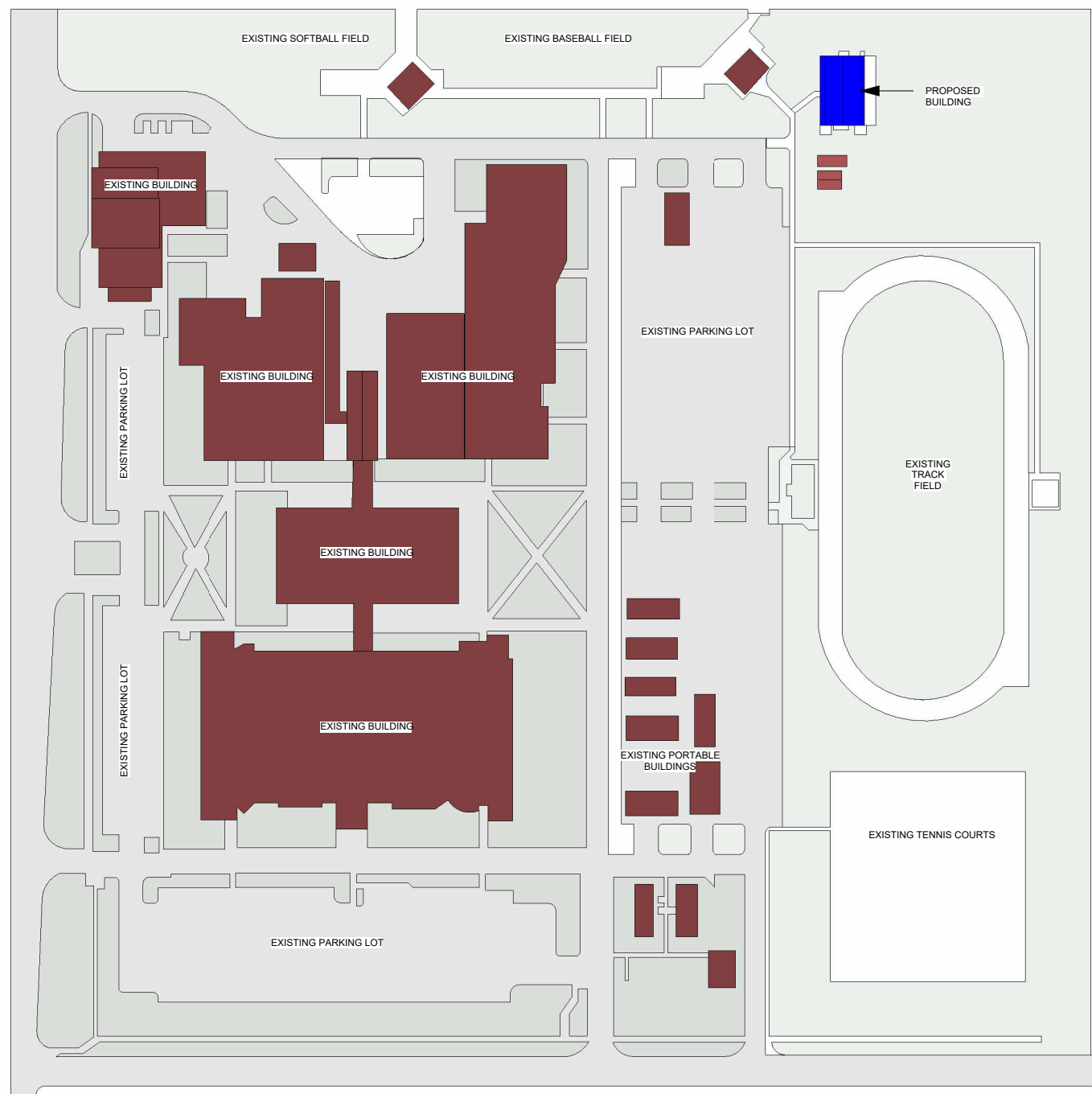


4 ENLARGE SITE
DEMOLITION PLAN
3/64" = 1'-0"

- GENERAL NOTES:**
1. OWNER WILL PROVIDE SOILS TESTS PRIOR TO FOUNDATION WORKS.
 2. PROVIDE SIDEWALK AS PART OF BASE BID.
 3. FOR UTILITIES, RE: MEP & CIVIL
 4. WARNING:
CONTACT AEP FOR ELECTRICAL SERV. & CITY OF EDINBURG FOR WATER & SEWER UTILITIES.
CONTRACTOR TO VERIFY EXISTING UTILITIES
 5. ALL CONSTRUCTION AND MATERIALS FOR DRAINAGE, GRADING AND PAVING TO BE IN ACCORD WITH "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION".
 6. CONTRACTOR IS RESPONSIBLE FOR ALL HORIZONTAL AND VERTICAL CONTROL FOR CONSTRUCTION.
 7. CONTRACTOR IS RESPONSIBLE FOR PAYING ANY FEES FOR PERMITS AS REQUIRED FOR THIS CONSTRUCTION
 8. CONTRACTOR TO SET CONTROL GRADES AT 25' INTERVALS ALONG ALL PAVING FLOW LINES
 9. ANY DAMAGE TO EXISTING UTILITIES BY CONTRACTOR TO BE FIXED BY CONTRACTOR
 10. PROVIDE JOB SIGN RE:
 11. ALL SOIL PLACED ONTO SITE IS TO BE COMPACTED TO 80% DENSITY, EXCEPT UNDER ANY PAVING COMPACTION IS TO BE 95%, U.N.O.
 12. ALL PIPES SLEEVES SHALL BE SCH 40 PVC, AND FURNISHED IN PLACE BY THE CONTRACTOR BEFORE PAVING.
 13. 6" CONC. CURB & 12" GUTTER
 14. CONTRACTOR TO PROVIDE A STAGING AREA TO PROVIDE FENCING FOR CONSTRUCTION AREA

- SITE NOTES:**
1. MAXIMUM SLOPE AT SIDEWALK IS NOT TO EXCEED 1:20 (5%) ALONGSIDE AND 1:50 (2%) ACROSS.
 2. SITE DRAINAGE SHALL NOT BE DIRECTED TOWARD ADJACENT PROPERTIES.
 3. BUILDING PAD ELEVATION TO BE SET BASED ON THE AREA SURVEY AND THE APPLICABLE FLOOD ZONE.
 4. VERIFY LOCATION OF SITE IMPROVEMENTS IN RELATION TO BUILDING, PROPERTIES TO BUILDING, PROPERTY LINES AND EASEMENTS.

- ADA NOTES:**
1. ALL SIDEWALKS AND COVERED WALKWAYS SHALL HAVE 1:50 MAXIMUM CROSS SLOPE SIDEWALKS OR COVERED WALKWAYS THAT MUST HAVE SLOPES GREATER THAN 1:20 SHALL HAVE HANDRAILS ON BOTH SIDES. HANDRAILS SHALL BE 34" TO TOP A.F.F. THERE SHALL BE NO ABRUPT CHANGE IN ELEVATION ALONG ACCESSIBLE ROUTES AT SIDEWALKS AND COVERED WALKWAYS.
 2. CURB RAMP SLOPE SHALL BE 1:20 MAXIMUM WITH 1:10 FLARED SIDES AND SHALL BE TEXTURED, PAINT WITH A LIGHT REFLECTIVE PAINT. PARALLEL CURB RAMP SLOPE SHALL BE 1:12 MAXIMUM & TEXTURED, PAINT WITH A LIGHT REFLECTIVE PAINT. ALL CURB RAMPS HAVE A LANDING AT TOP & BOTTOM. LANDINGS SHALL HAVE A 1:50 MAXIMUM SLOPE IN ANY DIRECTION.
 3. STRIPED ACCESS AISLES AND ACCESSIBLE PARKING SHALL HAVE A MAXIMUM CROSS SLOPE IN ALL DIRECTIONS OF 1:50.
 4. ALL GRADING SHALL BE DONE TO DRAIN WATER AWAY FROM BUILDINGS.
 5. ALL EXTERIOR ALCOVES SHALL HAVE A 1:50 MAXIMUM SLOPE AND SHALL HAVE NO DROPS AT DOORS NOR AT CONNECTION SIDEWALKS.
 6. REFER TO CIVIL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR CONTRACTING ARCHITECT IN CASE OF DISCREPANCIES AND COORDINATING WITH CIVIL ENGINEER PRIOR TO PROCEEDING.
 7. ALL EXTERIOR DOORS SHALL HAVE A LEVEL AREA IN FRONT OF THE DOOR WITH A 1:50 MAXIMUM SLOPE IN ALL DIRECTIONS. THE AREA SHALL BE A MINIMUM OF 5 FT. IN THE DIRECTIONS OF TRAVEL BY THE WIDTH OF THE SIDEWALK.

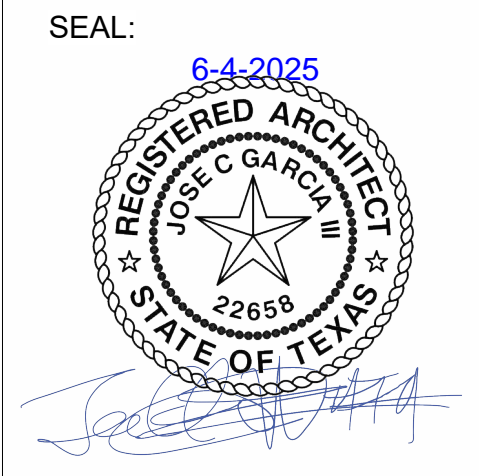


1 OVERALL SITE PLAN
1" = 200'-0"

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FIRM No: BR4247
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JOHNNY
ECONOMEDES
HIGH SCHOOL
ECISD HIGH
SCHOOL
MULTI-USE
BUILDING
25-74

J.
ECONOMEDES
HIGH SCHOOL

1414 N Alamo
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TX 78542

CLIENT:
ECISD

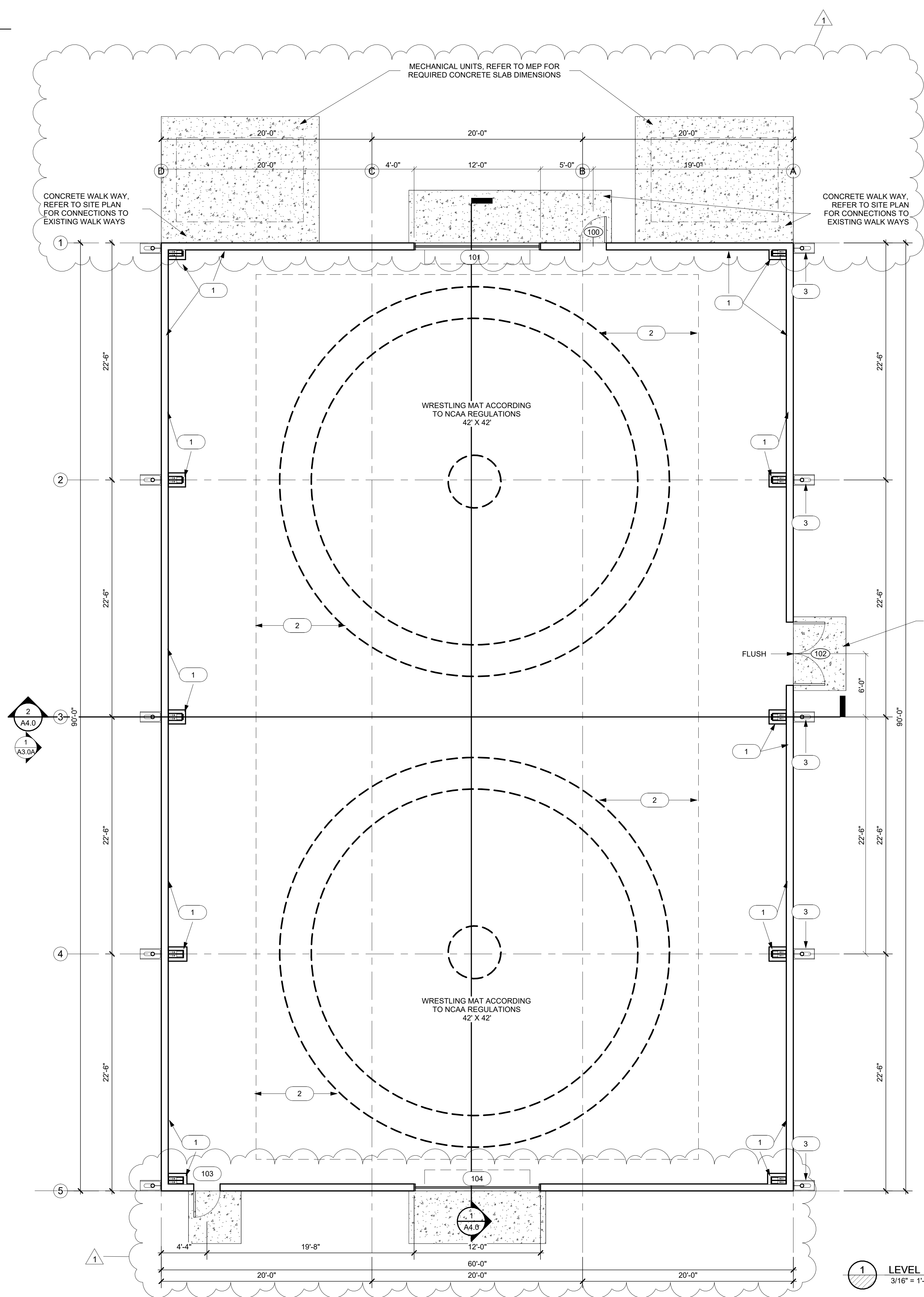
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SITE PLAN

A0.1



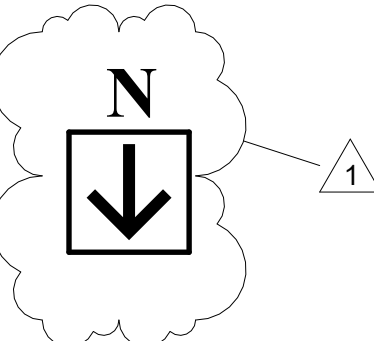
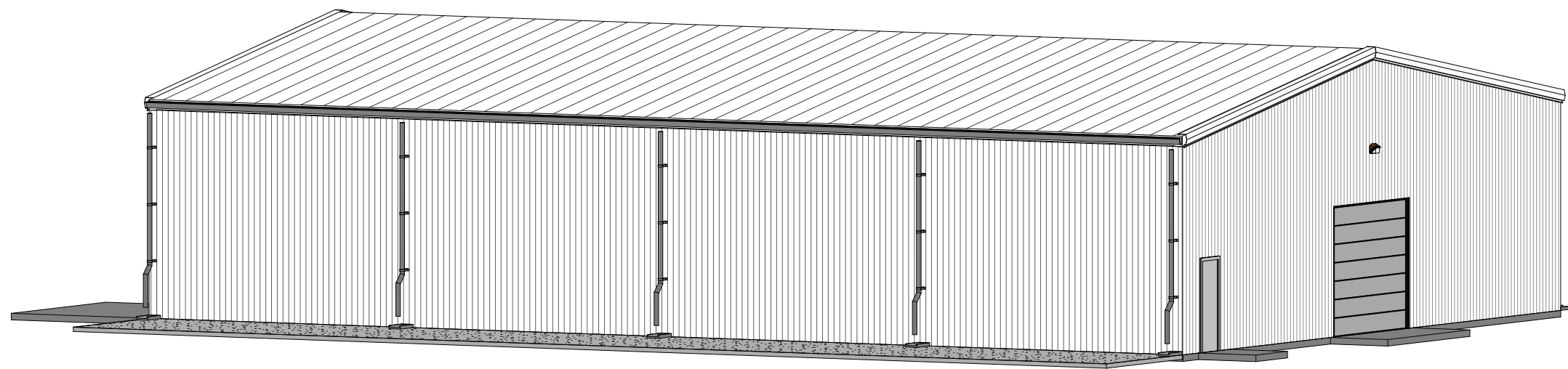
- KEY NOTES:**
- 1 3 5/8" METAL STUD FURRING WALL WITH 1/2" OSB BOARD OR EQUAL PLYWOOD SHEATHING TO 8'-0" AFF TYPICAL, PAINTED, PROVIDE CAP AT TOP OF FURRING WALL
 - 2 WRESTLING MAT ACCORDING TO NCAA REGULATIONS 42' X 42', BY OWNER
 - 3 CONCRETE SPLASH BLOCKS

ROOM SCHEDULE					
ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
MULTIPURPOSE AREA STORAGE	F-1	B-1	W-1	C-1	

- ROOM FINISH SCHEDULE: **BASIS OF DESIGN OR EQUAL**
- FLOOR:** F-1 SEALED CONCRETE FLOOR, TRANSPARENT
- BASE:** B-1 4" RUBBER BASE, ROPPE 700 SERIES 4" THERMOPLASTIC RUBBER WALL COVE BASE
- WALL:** W-1 OSB BOARD OR EQUAL PLYWOOD SHEATHING TO 8'-0" OSB PAINTED, FINAL COLOR SELECTED BY OWNER
- CEILING:** C-1 OPEN STRUCTURE, ONLY STRUCTURAL FRAME PAINTED

FLOOR PLAN GENERAL NOTES

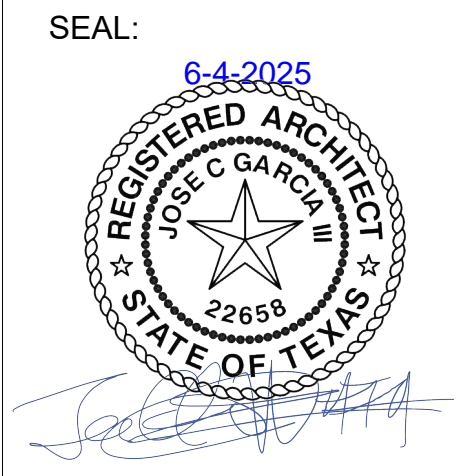
- THE CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS, SPECIFICATIONS, DIMENSIONS AND SITE CONDITIONS PRIOR TO BEGINNING ANY WORK AND REPORT ANY INCONSISTENCIES OR DISCREPANCIES TO THE ARCHITECT IMMEDIATELY FOR RESOLUTION DURING THE Q&A PERIOD OF THE BID PHASE, AND AT THE LATEST BEFORE BEGINNING CONSTRUCTION.
- THE DRAWINGS AND SPECIFICATIONS ARE CORRELATIVE AND HAVE EQUAL AUTHORITY AND PRIORITY. BASE DISAGREEMENTS IN THEMSELVES OR IN EACH OTHER ON THE MOST EXPENSIVE COMBINATION OF QUANTITY AND QUALITY OF WORK INDICATED.
- ITEMS SPECIFICALLY MENTIONED IN THE SPECIFICATIONS BUT NOT SHOWN ON THE DRAWINGS OR ITEMS SHOWN ON THE DRAWINGS BUT NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS SHALL BE PROVIDED AS IF THEY WERE BOTH SPECIFIED AND SHOWN IN THE DRAWINGS.
- ALL MINOR DETAILS OF WORK WHICH ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS, AS WELL AS SUCH ITEMS WHICH ARE NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS, BUT ARE NECESSARY FOR THE PROPER COMPLETION OF THE WORK, SHALL BE CONSIDERED AS INCIDENTAL AND AS BEING PART OF AND INCLUDED WITH THE WORK FOR WHICH PRICES ARE GIVEN IN THE PROPOSAL AND NO EXTRA COMPENSATION SHALL BE ALLOWED FOR THE PERFORMANCE THEREOF.
- ALL FLOOR PLAN DIMENSIONS ARE TO FINISH FACE OF WALL. DO NOT SCALE DRAWINGS. WHERE DIMENSIONS ARE NOTED "AS CLEAR" DIMENSION SHALL BE FROM FINISH TO FINISH.
- CASEWORK, PLUMBING FIXTURES, TOILET PARTITIONS, AND OTHER FIXTURES AND EQUIPMENT ARE DIMENSIONED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE.
- ALL SPACES WITH FLOOR DRAINS - SLOPE NOT TO EXCEED 2% (ONE - IN - FIFTY) IN ANY DIRECTION. COORDINATE ALL FLOOR DRAINS WITH PLUMBING DRAWINGS PRIOR TO ANY ROUGH-IN AND CONCRETE PLACEMENT.
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- DIMENSIONS NOTED AS "CLEAR" REQUIRE SPECIFIC COORDINATION BETWEEN DISCIPLINES AND/OR MANUFACTURERS.
- ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE. ALL FLOOR FINISH ELEVATION CHANGES SHALL HAVE THRESHOLDS OR REDUCERS STRIPS AS SPECIFIED.
- OPEN EXTERIOR JOINTS AROUND DOOR AND WINDOW FRAMES, BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF, BETWEEN WALL PANELS, AT WALL AND ROOF PENETRATIONS AND ANY OTHER BUILDING ENVELOPE PENETRATION SHALL BE SEALED, CAULKED AND/OR WEATHER STRIPPED TO PREVENT OR LIMIT AIR, MOISTURE AND VAPOR PENETRATION. USE ONLY SPECIFIED MANUFACTURER APPROVED MATERIALS AS DIRECTED BY MATERIAL MANUFACTURERS.
- EFFECTIVELY ISOLATE ALL DISSIMILAR METALS/ MATERIALS TO PREVENT CORROSION BY ELECTROLYTIC ACTION OR OTHER CAUSES AS RECOMMENDED BY THE RESPECTIVE PRODUCT MANUFACTURER OR SUPPLIER.
- PROPERLY TERMINATE ALL MATERIALS WITH APPROPRIATE TRIM, FLASHING, SEALANT, EXPANSION CONTROL, ETC. AS INDICATED ON DRAWINGS OR AS REQUIRED FOR PROPER INSTALLATION AS ACCEPTED BY STANDARD BUILDING PRACTICE.
- COORDINATE AND PROVIDE APPROPRIATE BLOCKING IN WALLS AS REQUIRED TO SECURE ALL EQUIPMENT, HANDRAILS, CASEWORK, ETC. AS REQUIRED. WOOD BLOCKING SHALL MEET CODE REQUIREMENTS.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES AND HEIGHTS. COORDINATE ALL LIGHT FIXTURES, MECHANICAL DIFFUSERS, NOTIFICATION DEVICES, ETC. WITH M.E.P. DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR RESOLUTION.
- COORDINATE HOUSEKEEPING PAD DIMENSIONS AND LOCATIONS WITH EQUIPMENT TO BE INSTALLED. ALL HOUSEKEEPING PADS SHALL BE A MINIMUM OF 4" TALL REINF. W/ #3 BARS AT 15" O.C.B.W. AND PROVIDE 1" (45- DEGREE) CHAMFERED EDGES UNLESS NOTED OTHERWISE.
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- PROVIDE ROOM SIGNAGE AND DIRECTIONAL SIGNAGE AS PART OF BASE BID. REFER TO THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS, ARCHITECTURAL BARRIERS DIVISION TEXAS ACCESSIBILITY STANDARDS FOR ALL MOUNTING HEIGHTS NOT LISTED AND FOR FURTHER CLARIFICATION AS NEEDED.



1 LEVEL 1 FLOOR PLAN
3/16" = 1'-0"



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ECONOMEDES
HIGH SCHOOL

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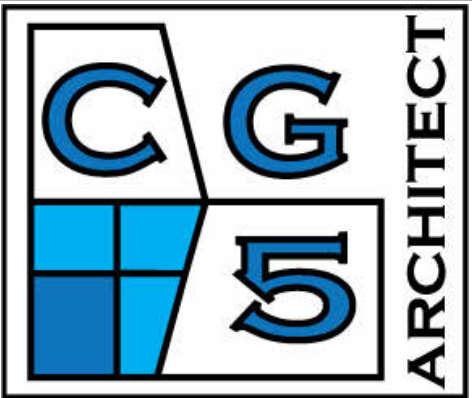
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FLOOR PLAN
BASE BID

A2.0



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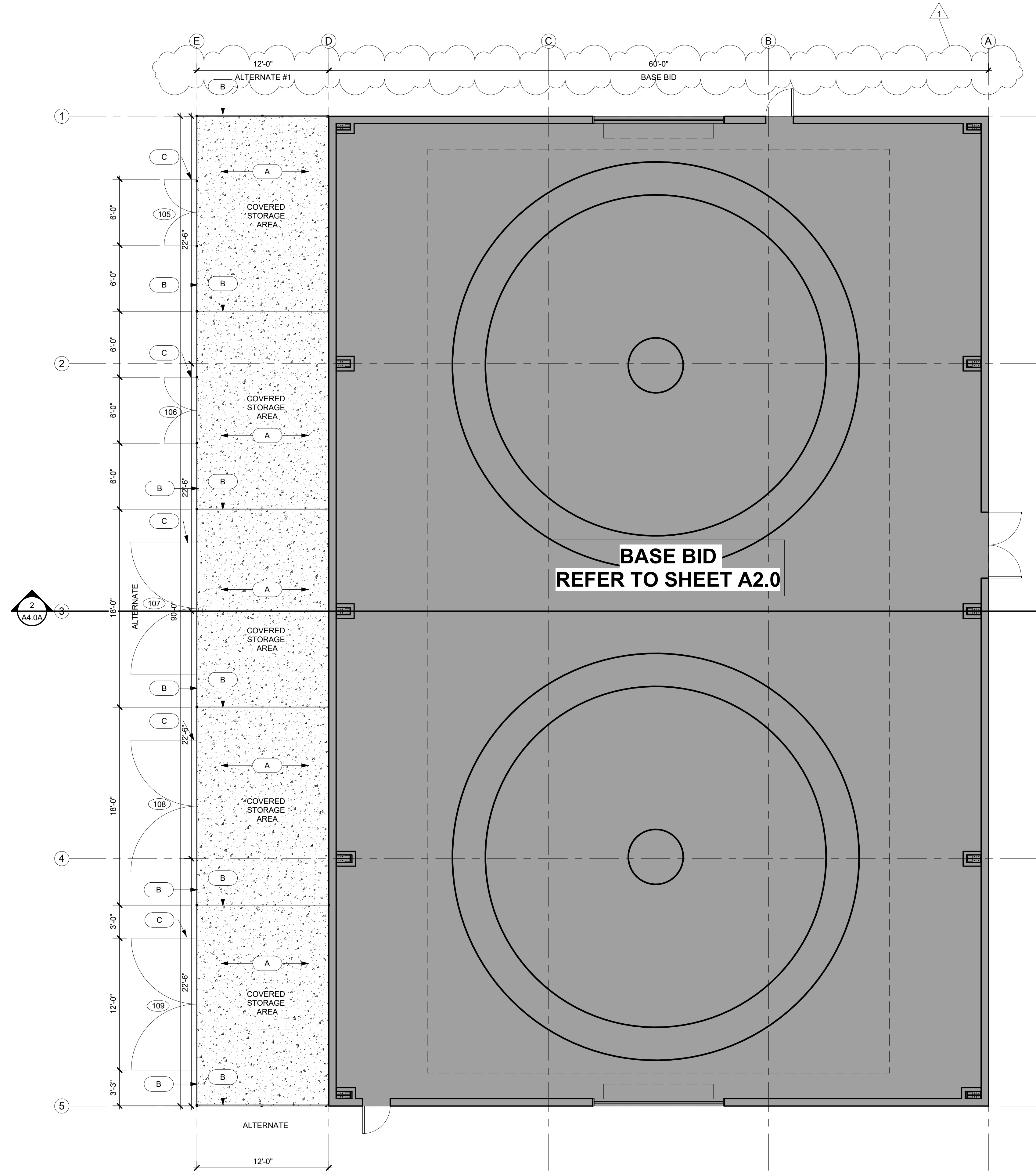
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FLOOR PLAN
ALTERNATE

A2.0A



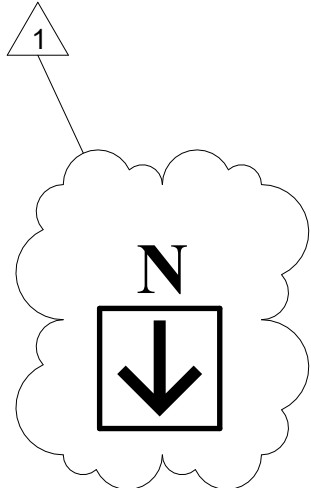
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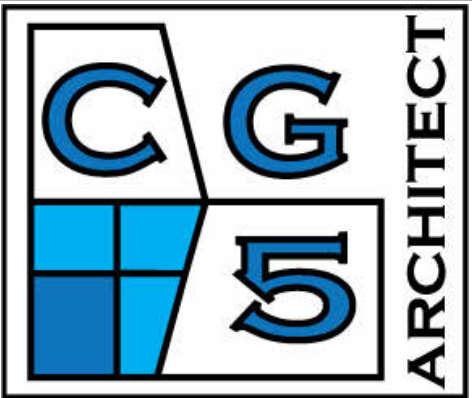
- A CONCRETE FLAT WORK FLOOR AT CANOPY EXTENSION (ALTERNATE #2)
- B 12' HIGH CHAIN LINK FENCE AT CANOPY EXTENSION (ALTERNATE #3)
- C 8' HIGH CHAIN LINK DOUBLE SWING GATE AT CANOPY EXTENSION (ALTERNATE #3) REFER TO SHEET A7.0

FLOOR PLAN GENERAL NOTES

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LEVEL 1 FLOOR PLAN
ALTERNATE
3/16" = 1'-0"





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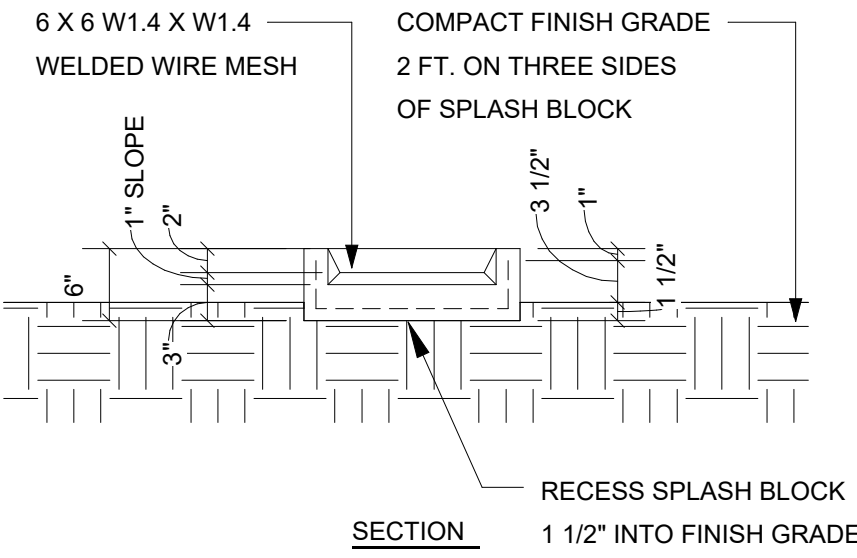
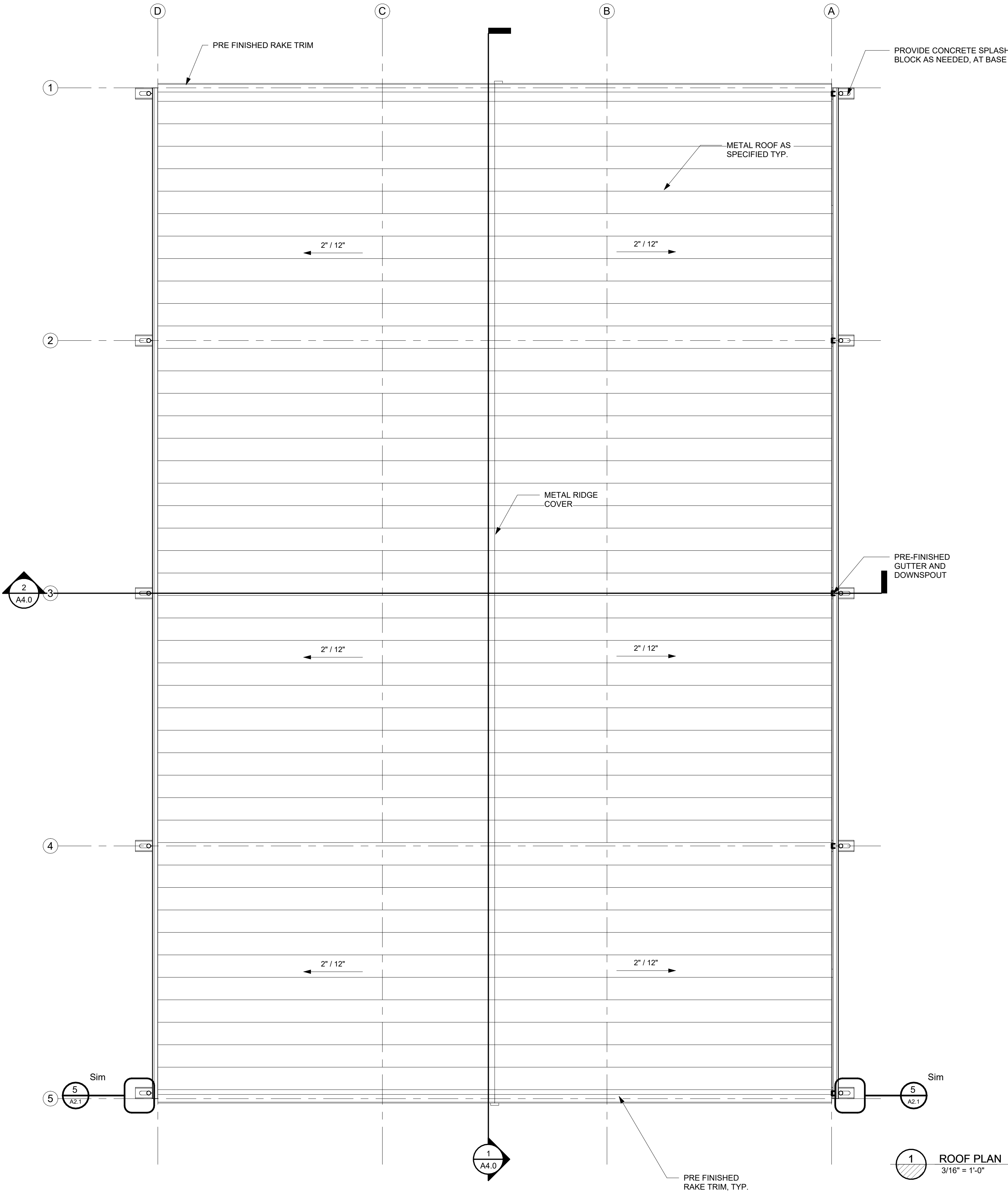
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ROOF PLAN
BASE BID

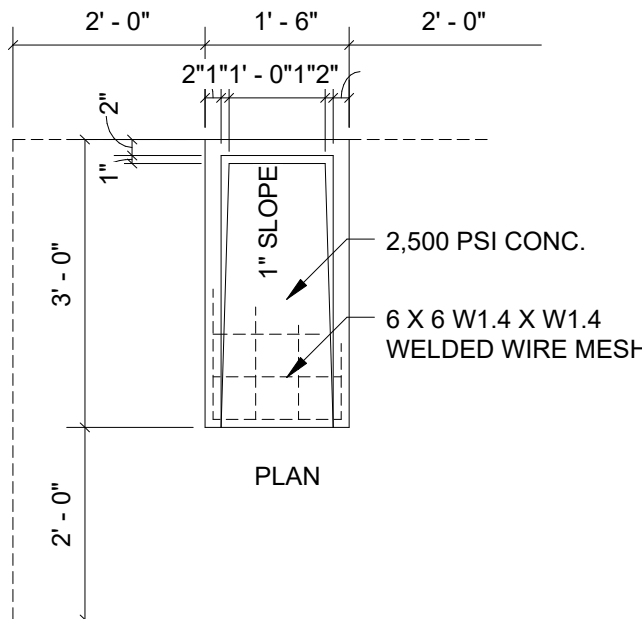
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GENERAL ROOF NOTES:

1. PROVIDE ALL REQUIRED UTILITY / STRUCTURAL COMPONENTS AND/OR CONNECTIONS FOR THE FUNCTIONAL USE OF ALL CONTRACTOR SUPPLIED EQUIPMENT OR APPLIANCES, REGARDLESS OF ANY OMISSIONS OR INCONSISTENCIES ENCOUNTERED IN THE CONSTRUCTION DOCUMENTS.
2. THE WORD 'PROVIDE' SHALL MEAN 'FURNISH AND INSTALL COMPLETE AND READY TO USE.'
3. IF DISCREPANCIES APPEAR BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE HIGHER QUALITY, QUANTITY, AND PRICE SHALL SUPERSEDE.
4. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BECOME FAMILIAR WITH THE PROJECT AND THE ON-SITE / OFF-SITE CONDITIONS PRIOR TO BIDDING OR COMMENCING WORK.
5. ROOF SLOPES SHOWN ON DRAWING ARE GENERAL AND CONCEPTUAL ONLY. PROVIDE POSITIVE DRAINAGE TO ALL GUTTERS. VERIFY IN SHOP DRAWINGS. REFER TO STRUCTURAL DOCUMENTS FOR EXACT TOS/BOD ELEVATIONS.
6. PROVIDE CRICKETS (1/2"/FT. MIN. SLOPE) AT HIGH SIDE OF ALL MECHANICAL UNITS SMOKE VENTS, EXHAUST FANS & OTHER MISC. ROOF PENETRATIONS, TO SHED WATER AROUND & TO ENSURE POSITIVE ROOF DRAINAGE.
7. ALL EXPOSED FLASHING, COPING (IF APPLICABLE) AND THEIR ACCESSORIES SHALL BE AS SPECIFIED. PAINT ALL METAL FLASHING THAT IS NOT PRE-FINISHED (TYP) AND VISIBLE FROM THE GROUND.
8. ALL PITCH PANS SHALL BE SOLDERED CLAD METAL AND RECEIVE EITHER MECHANICALLY ATTACHED GOOSENECK OR METAL BONNETS. METAL BONNETS SHALL BE SECURED WITH CLAMPING RING AND SEALANT. SPECIAL CARE GIVEN TO WASH ALL METAL PRIOR TO INSTALLATION.
9. PROVIDE NEW CONCRETE SPLASH BLOCKS AT ALL DOWNSPOUT DISCHARGE LOCATIONS.
10. ALL EQUIPMENT CURBS TO BE SET OR RAISED AS NECESSARY TO MAINTAIN 10" MINIMUM HEIGHT ABOVE FINISHED ROOF SURFACE.
11. MECHANICAL, ELECTRICAL, AND PLUMBING ROOF EQUIPMENT SHOWN ON THIS PLAN IS FOR GENERAL ARCHITECTURAL INFORMATION ONLY. REFER TO M.E.P. DOCUMENTS FOR ROOFTOP EQUIPMENT NOT SHOWN, AND FOR ADDITIONAL REQUIREMENTS AND COORDINATION.
12. REFER TO M.E.P. DOCUMENTS FOR THE PIPE SUPPORT LOCATIONS, TYPE, AND DETAILS. PAD SHALL BE MIN 2" WIDER THAN SUPPORT IN ALL DIRECTIONS.
13. GUTTERS SHALL BE PRE-FINISHED GALVANIZED STEEL. SIZE PER ROOF PLAN, UNO. PROVIDE PRE-FINISHED 1/4"x1 1/2" GALVANIZED STEEL BENT PLATE BRACKETS AND PRE-FINISHED 1" GALVANIZED STEEL SPACERS AT 36" O.C. MAX. STAGGER WITH EACH OTHER AT 18" O.C.
14. PROVIDE PRE-FINISHED GUTTER EJ'S 30'-0" O.C. MAX.
15. DOWNSPOUTS SHALL BE 4"x6" PRE-FINISHED GALVANIZED STEEL UNO AS INDICATED ON ROOF PLAN. PROVIDE PRE-FINISHED 2" GALVANIZED STEEL HANGERS AT 36" O.C. COORDINATE LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.



4 SPLASH
3/4" = 1'-0"



5 SPLASH GUARD
1/2" = 1'-0"

1 ROOF PLAN
3/16" = 1'-0"



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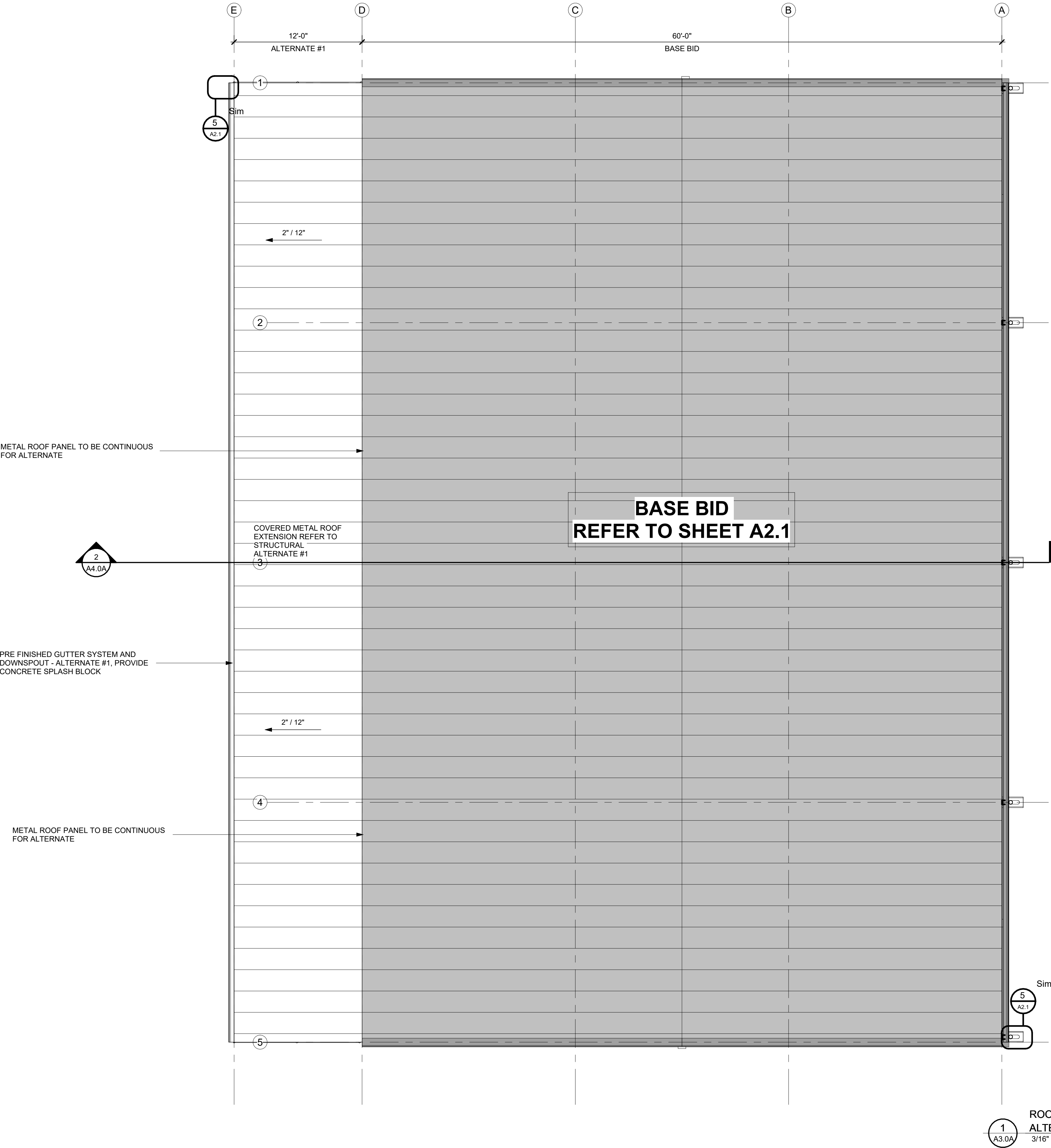
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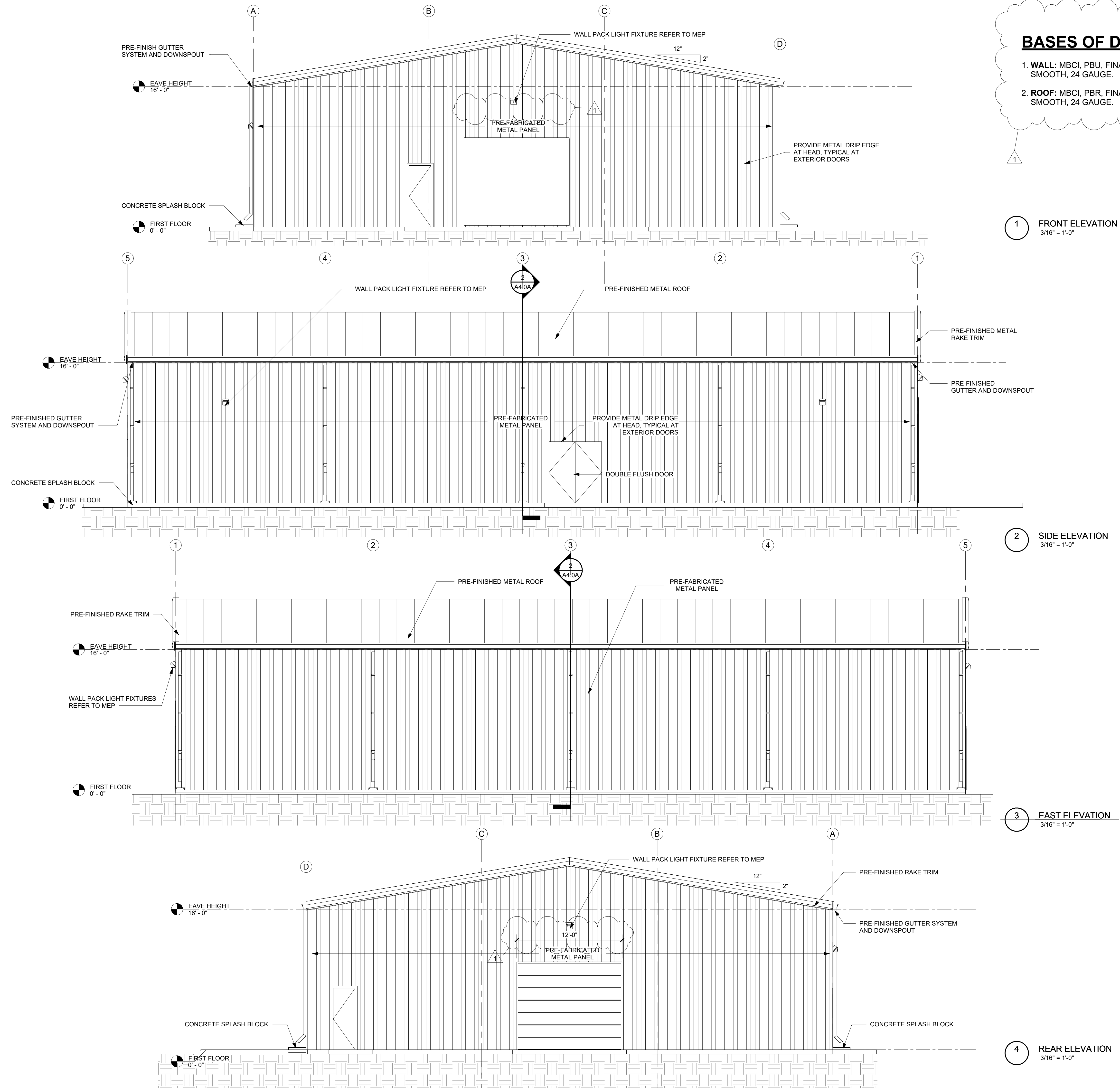
ROOF PLAN
ALTERNATE

A2.1A

GENERAL ROOF NOTES:

1. PROVIDE ALL REQUIRED UTILITY / STRUCTURAL COMPONENTS AND/OR CONNECTIONS FOR THE FUNCTIONAL USE OF ALL CONTRACTOR SUPPLIED EQUIPMENT OR APPLIANCES, REGARDLESS OF ANY OMISSIONS OR INCONSISTENCIES ENCOUNTERED IN THE CONSTRUCTION DOCUMENTS.
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6. PROVIDE CRICKETS (1/2"/FT. MIN. SLOPE) AT HIGH SIDE OF ALL MECHANICAL UNITS SMOKE VENTS, EXHAUST FANS & OTHER MISC. ROOF PENETRATIONS, TO SHED WATER AROUND & TO ENSURE POSITIVE ROOF DRAINAGE.
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9. PROVIDE NEW CONCRETE SPLASH BLOCKS AT ALL DOWNSPOUT DISCHARGE LOCATIONS.
10. ALL EQUIPMENT CURBS TO BE SET OR RAISED AS NECESSARY TO MAINTAIN 10" MINIMUM HEIGHT ABOVE FINISHED ROOF SURFACE.
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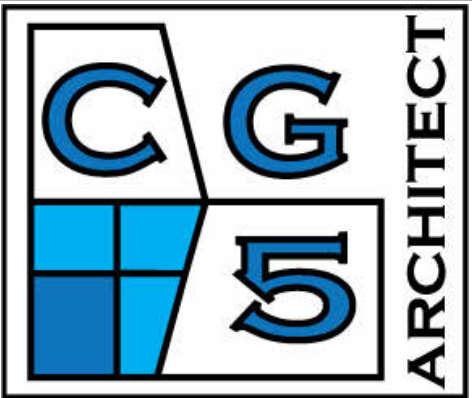
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EXTERIOR
ELEVATIONS
BASE BID

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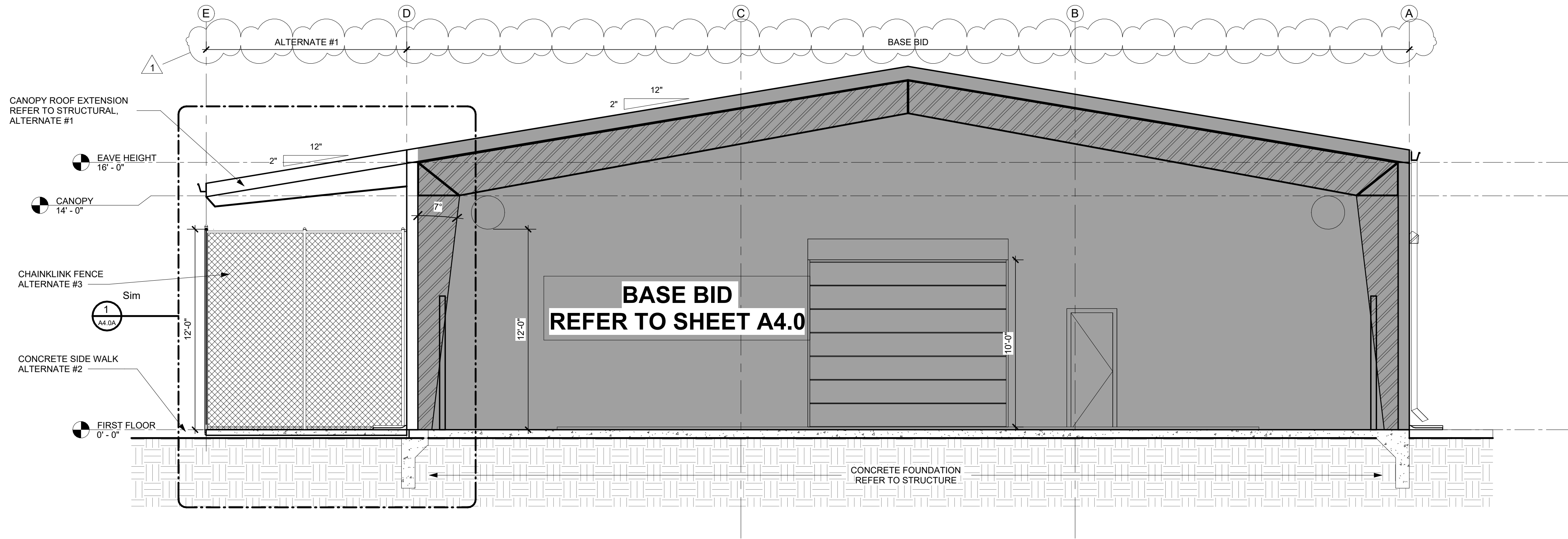
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No.	Description	Date
1	ASI 1	5/28/2025

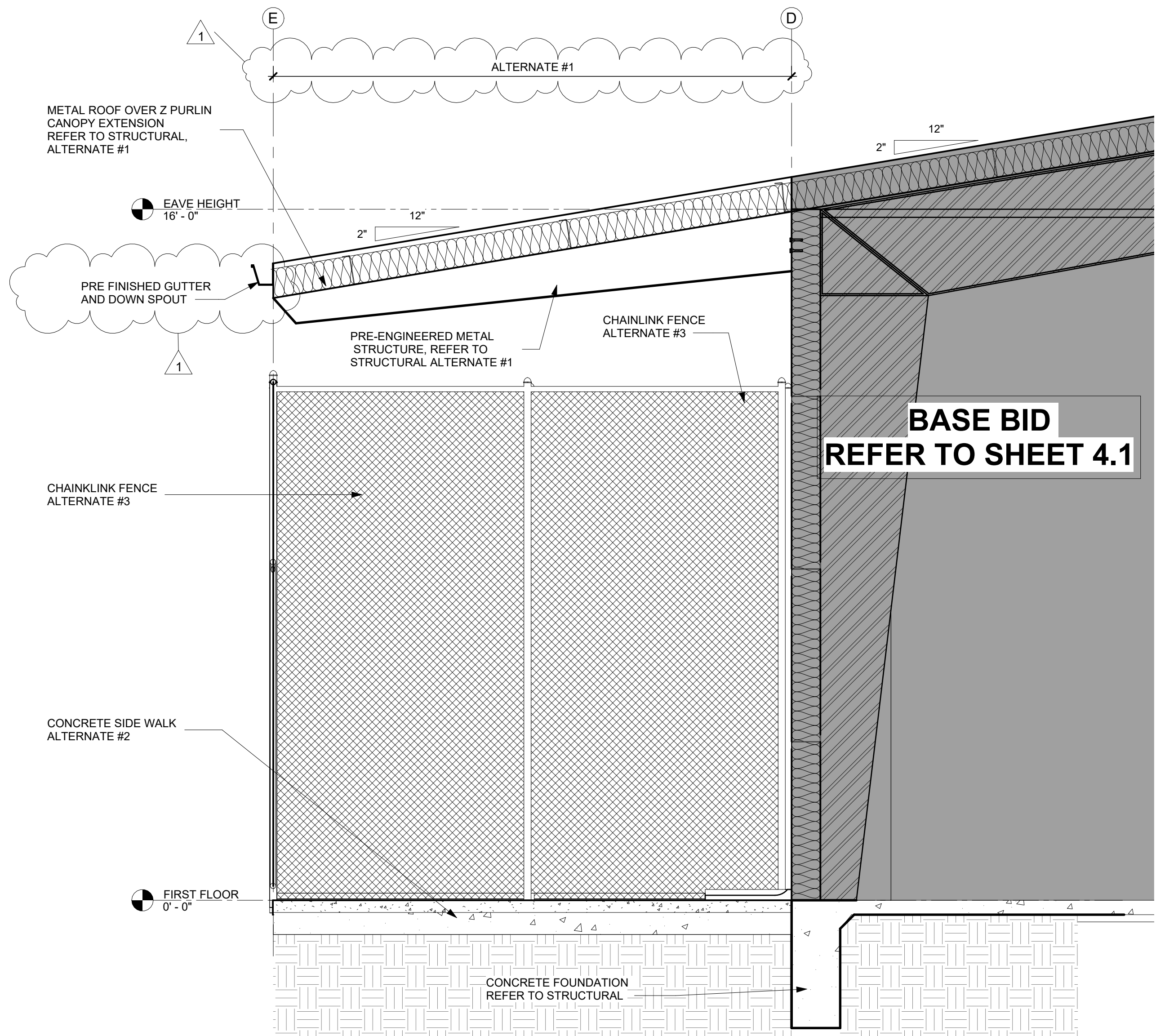
PROJECT #: 25-030102
DRAWN BY: EC
CHECKED BY: CG3
DATE: 5/28/2025

BUILDING
SECTIONS
ALTERNATE

A4.0A



2
A2.0A
BUILDING SECTION
ALTERNATE
1/4" = 1'-0"



1
A4.0A
STORAGE AREA
ALTERNATE
1/2" = 1'-0"



TEXAS ARCHITECT
FIRM No: BR4247
WWW.CGSARCHITECT.COM

SEAL:



ECISD HIGH SCHOOL
ATHLETIC MULTI-USE BUILDING
ECISD CSP 25-74

J.
ECONOMEDES
HIGH SCHOOL

1414 N Alamo
Rd, Edinburg,
TX 78542

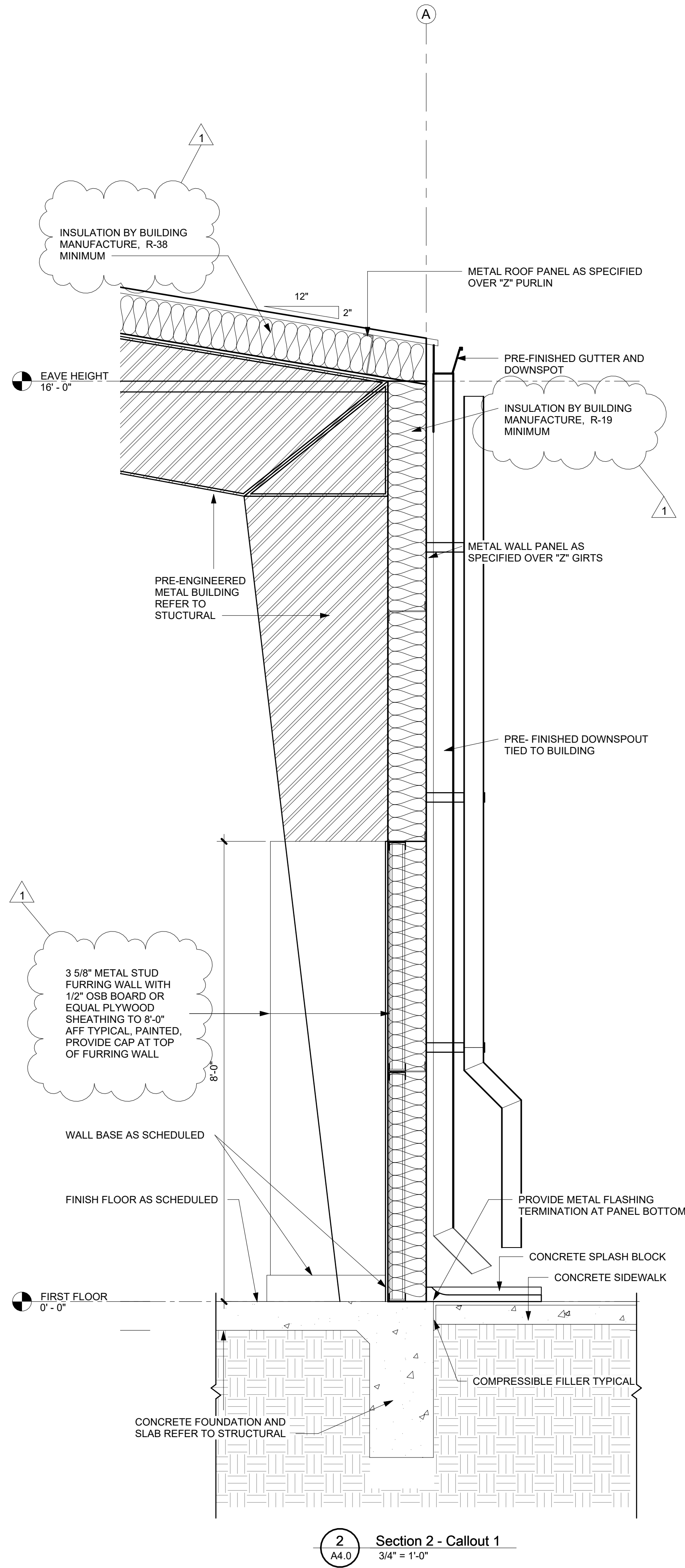
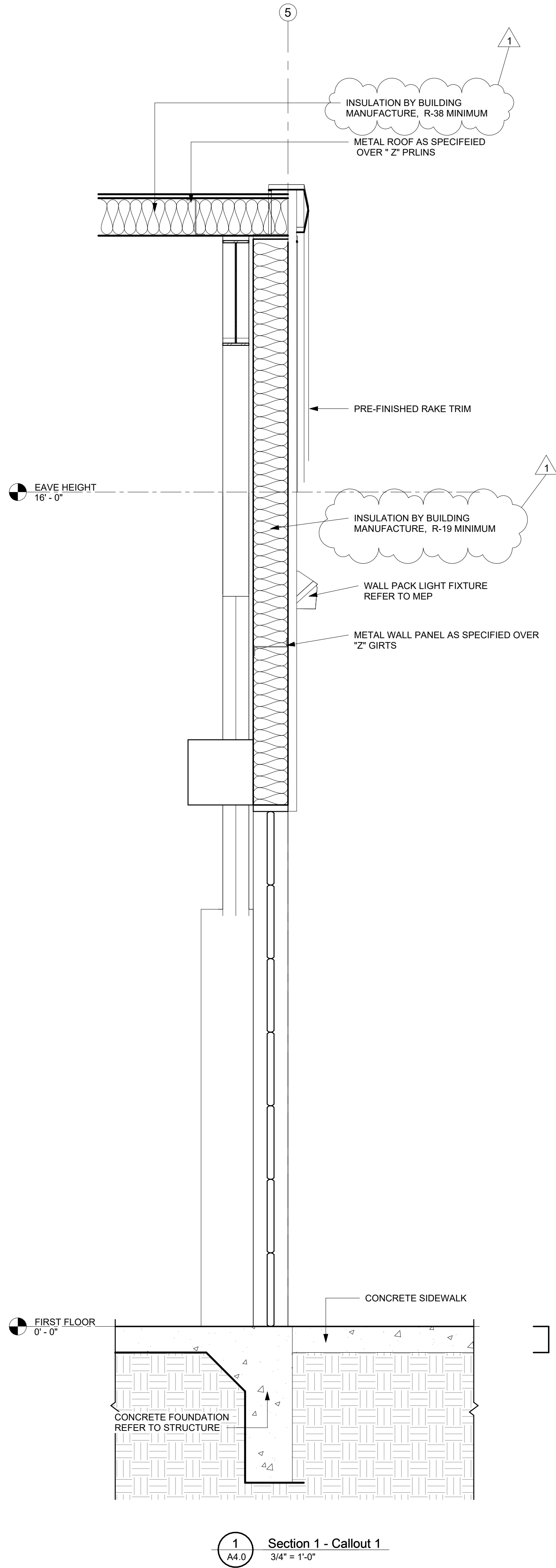
CLIENT:
EDINBURG CISD

REVISION:		
No.	Description	Date
1	ASI 1	5/28/2025

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CHECKED BY: CG3
DATE: 5/28/2025

WALL
SECTIONS AND
DETAILS BASE
BID

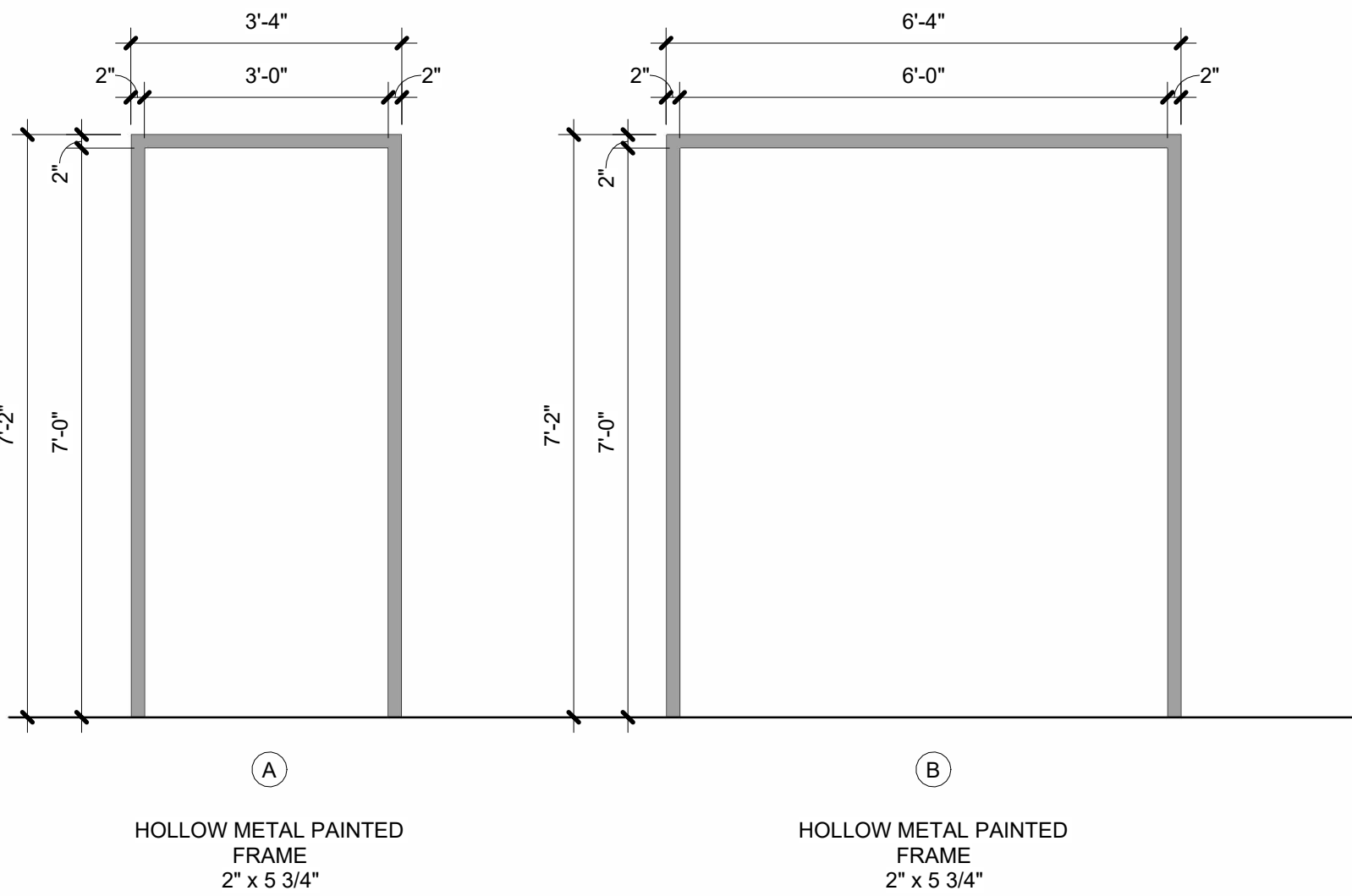
A4.1



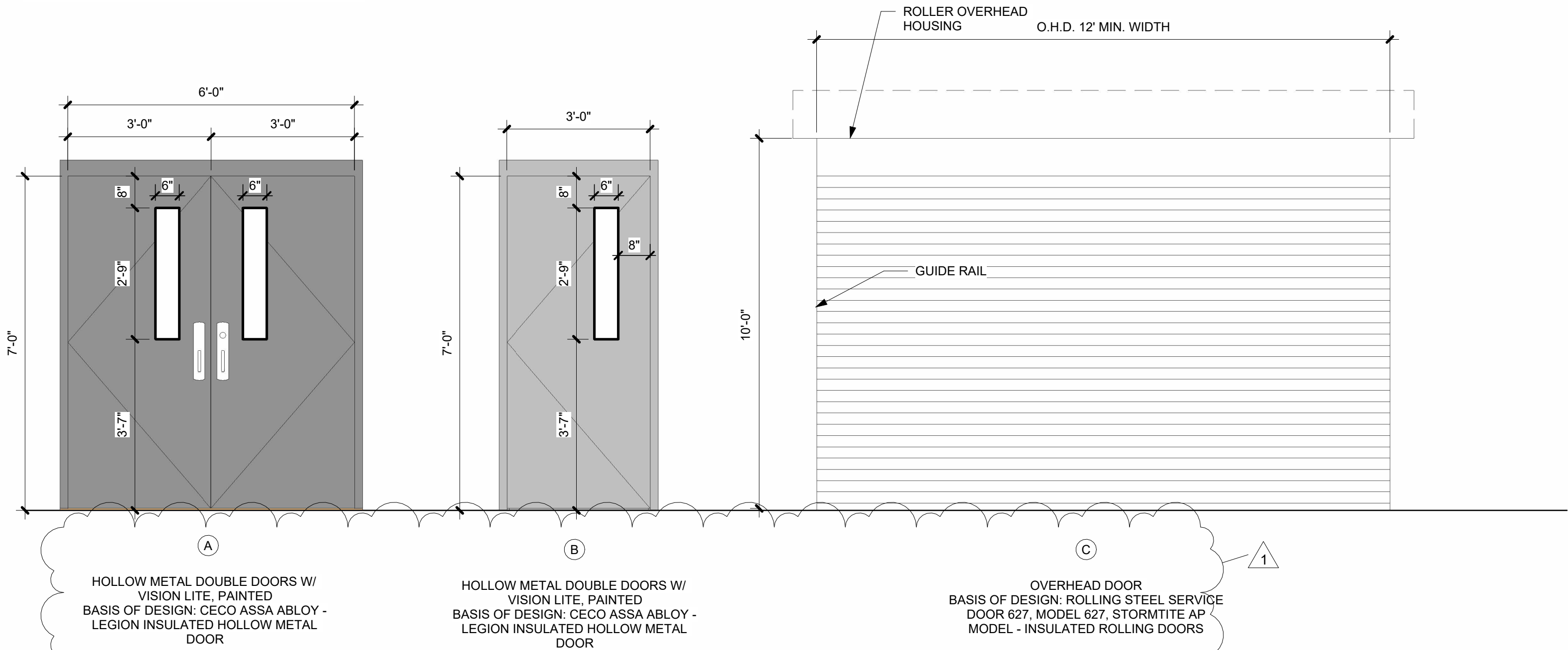
DOOR HARDWARE:

- DH1: DOORS:
6 - HINGES (BASIS OF DESIGN OR EQUAL); BEST DOOR HARDWARE PBB HINGES 4B81
1 - CENTER MULLION REMOVABLE
2 - THRESHOLDS
2 - PANIC DEVICE (BASIS OF DESIGN OR EQUAL); BEST DOOR HARDWARE PRECISION APEX 2100,
STANDARD, 1700C GRIP OR COMPATIBLE WITH ACCESS CONTROL, NO ALARM, DOOR SIZE AS SHOWN
ON PLAN, S300 STRIKE, 630 US32D
1 - WEATHER STRIPPING FOR DOUBLE DOOR (BASIS OF DESIGN OR EQUAL):
PEMCO PK55 - SELF ADHESIVE WEATHER SEAL GASKET
1 - RAIN GUARD FOR DOUBLE DOOR
2 - DOOR HOLD OPEN
2 - DOOR CLOSURES
- DH2: DOORS:
3 - HINGES (BASIS OF DESIGN OR EQUAL); BEST DOOR HARDWARE PBB HINGES 4B81
1 - KICK PLATE
1 - PANIC DEVICE (BASIS OF DESIGN OR EQUAL); BEST DOOR HARDWARE PRECISION APEX 2100,
STANDARD, 1700C GRIP OR COMPATIBLE WITH ACCESS CONTROL, NO ALARM, DOOR SIZE AS SHOWN
ON PLAN, S300 STRIKE, 630 US32D
1 - DOOR CLOSURE
1 - DOOR HOLD OPEN
- DH3: DOORS:
1 - RIM CYLINDER
ALL OTHER ACCESSORIES BY DOOR MANUFACTURERS
- DOOR HARDWARE GENERAL NOTES:
1. KEYS AS PER OWNER KEYING SYSTEM.
2. ALL HARDWARE TO BE MEDIUM TO HEAVY DUTY

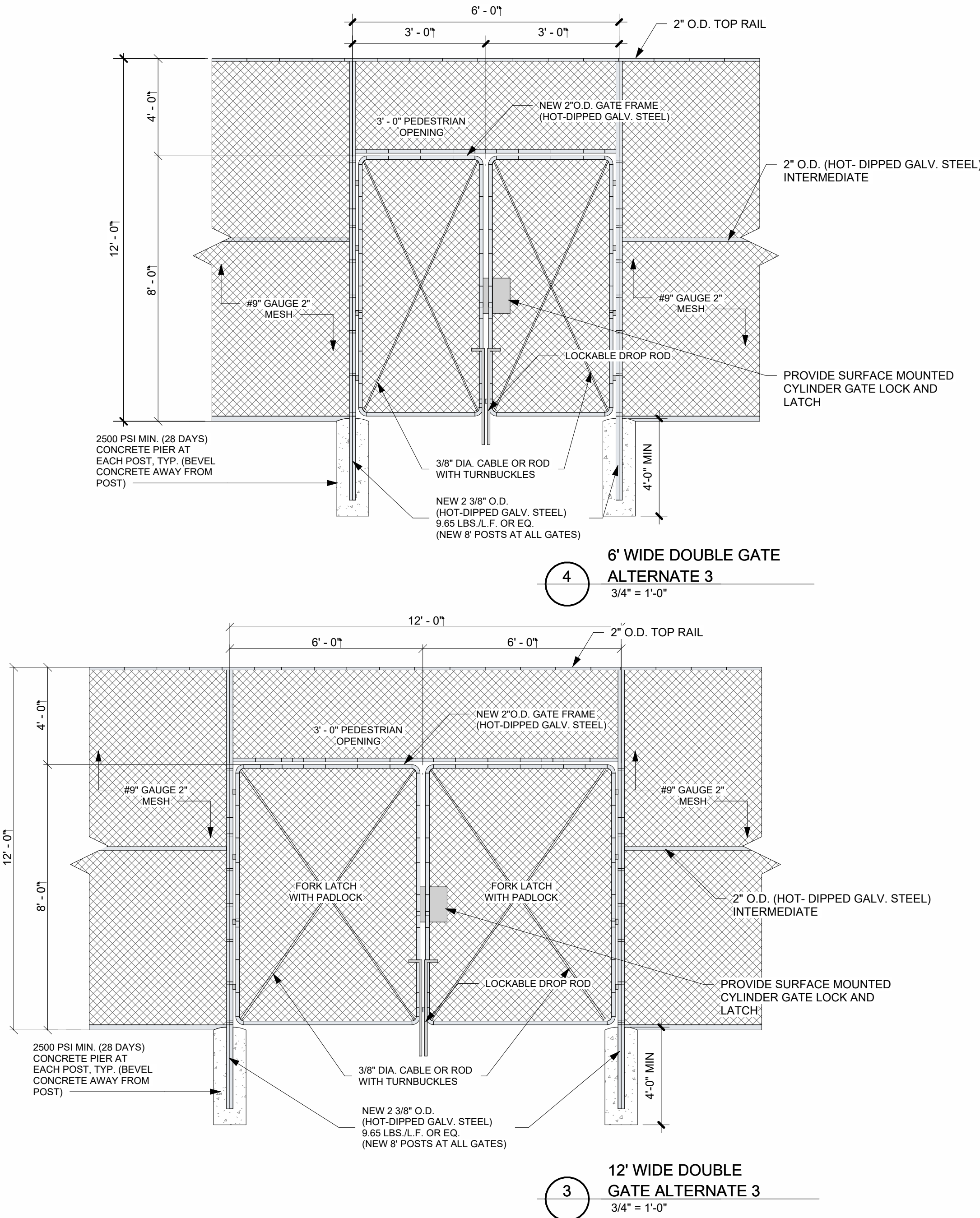
DOOR SCHEDULE								
MARK	LOCATION		TYPE DESCRIPTION	SIZE	DOOR MATERIAL	DOOR FRAME	DOOR HARDWARE	REMARKS
	FROM	TO		WIDTH x HEIGHT				
100	EXTERIOR	MULTIPURPOSE 100	B	3'-0" x 7'-0"	HOLLOW METAL	HOLLOW METAL	DH2	
101	EXTERIOR	MULTIPURPOSE 100	C	12'-0" x 10'-0"	METAL	METAL	-	INSULATED
102	EXTERIOR	MULTIPURPOSE 100	A	3'-0" x 7'-0" DOUBLE	HOLLOW METAL	HOLLOW METAL	DH1	
103	EXTERIOR	MULTIPURPOSE 100	B	3'-0" x 7'-0"	HOLLOW METAL	HOLLOW METAL	DH2	
104	EXTERIOR	MULTIPURPOSE 100	C	12'-0" x 10'-0"	METAL	METAL	-	INSULATED



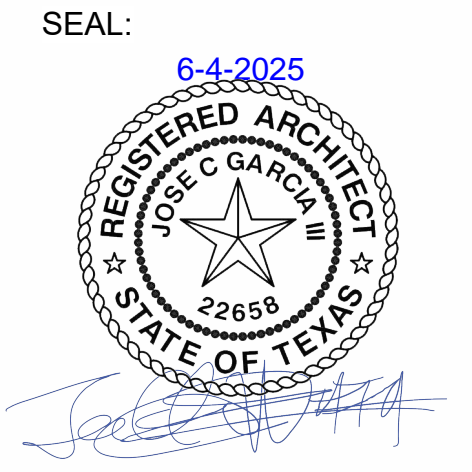
DOOR FRAME TYPES



DOOR TYPES



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DOOR
SCHEDULE

A7.0



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REVISION:

No.	Description	Date

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DATE: 5/14/25

GENERAL
NOTES

ADDENDUM #2

S1.0

GENERAL NOTES

SHOP DRAWINGS AND SUBMITTALS:

A. SUBMITTAL LIST AND SCHEDULE

1. THE GENERAL CONTRACTOR SHALL PREPARE A DETAILED LIST AND SCHEDULE OF ALL SUBMITTAL ITEMS TO BE SENT TO THE STRUCTURAL ENGINEER PRIOR TO THE START OF CONSTRUCTION. THE LIST SHALL INCLUDE:
 - a. DESIGN CALCULATIONS
 - b. PRODUCTS, ASSEMBLIES, AND HARDWARE
 - c. PROPOSED CERTIFICATES, MILL CERTIFICATES, AND FABRICATOR CERTIFICATES
 - d. SHOP DRAWINGS

B. SHOP DRAWINGS AND SUBMITTALS

1. THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEERING REVIEW SHOP DRAWINGS AND SUBMITTALS FOR THE FOLLOWING ITEMS BUT NOT LIMITED TO:
 - a. CONCRETE MIX DESIGN AND ACCESSORIES
 - b. COMPRESSION JOINT LOCATIONS ON SLAB-ON-GRADE
 - c. EMBEDDED PLATES
 - d. GROUT MIX DESIGN
 - e. MASONRY ASSEMBLY
 - f. MISCELLANEOUS STEEL
 - g. MORTAR MIX DESIGN
 - h. PRE-ENGINEERED CANOPY REACTIONS
 - i. REINFORCING STEEL
 - j. ROOF DECK
 - k. ROOFTOP UNITS LOCATIONS AND ANCHORS
 - l. STEEL JOISTS AND JOIST GIRDERS
 - m. STEEL STAIRS AND LADDERS
 - n. STRUCTURAL STEEL CONNECTION DESIGN
 - o. STRUCTURAL STEEL

"SHOP DRAWINGS OR SUBMITTALS REQUIRED TO BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS IN."

C. ALLOW A MINIMUM OF 12 WORKING DAYS FOR REVIEW OF EACH SET OF SHOP DRAWINGS.

D. GENERAL CONTRACTORS ROLE PRIOR TO SUBMISSION

1. ALL SHOP DRAWINGS AND SUBMITTALS SHALL BE REVIEWED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE ENGINEER FOR REVIEW.
2. THE GENERAL CONTRACTOR SHALL REVIEW THE DRAWINGS SUBMITTED BY THEIR SUB-CONTRACTORS AND COORDINATE SHOP DRAWINGS WITH ALL OTHER TRADES PRIOR TO SUBMISSION TO THE ENGINEER FOR REVIEW.
3. THE GENERAL CONTRACTOR SHALL ANSWER ALL QUESTIONS OR CLARIFICATIONS BY THE SUB-CONTRACTORS BEFORE SUBMITTING TO THE ENGINEER FOR REVIEW.

D. SHOP DRAWINGS AND SUBMITTAL LEGIBILITY

1. SHOP DRAWINGS AND SUBMITTALS SHALL USE DRAFTING LINE WORK AND LETTERING THAT IS CLEAR.
2. SHOP DRAWINGS AND SUBMITTALS SHALL SHOW CLEAR AND COMPLETE INFORMATION FOR THE FABRICATOR AND INSTALLATION.

E. ERRORS AND OMISSIONS

1. REVIEW OF THE SHOP DRAWINGS AND SUBMITTALS IS FOR GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS. REVIEW OF THE SHOP DRAWINGS AND SUBMITTALS BY THE ENGINEER DOES NOT IMPLY THAT THE CONTRACTOR FOR THE SHOP DRAWINGS INDICATES THEIR ACCEPTANCE OF ALL SUB-CONTRACTORS AND COORDINATE SHOP DRAWINGS WITH ALL OTHER TRADES PRIOR TO SUBMISSION TO THE ENGINEER FOR REVIEW.

F. DISCREPANCIES

1. IF THERE EXISTS ANY DISCREPANCIES BETWEEN THE STRUCTURAL DRAWINGS AND SHOP DRAWINGS AND/OR SUBMITTALS, THE INFORMATION IN THE STRUCTURAL DRAWINGS SHALL SUPERSEDE INFORMATION THAT IS NOT INDICATED ON THE SHOP DRAWINGS SHALL BE OBTAINED FROM THE STRUCTURAL DRAWINGS.

G. REPRODUCTION

1. THE USE OF THE ELECTRONIC FILES OR REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY THE GENERAL CONTRACTOR AND SUB-CONTRACTOR, ERECTOR, FABRICATOR, OR SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS AND/OR SUBMITTALS INDICATES THEIR ACCEPTANCE OF ALL INFORMATION SHOWN IN THESE DOCUMENTS ARE 100% CORRECT, AND OBLIGATES THEMSELVES TO ANY EXPENSES, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.

MISCELLANEOUS:

A. CONTRACT DOCUMENTS

1. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN ALL CONSTRUCTION DOCUMENTS, THE LATEST AGENDA AND TO SUBMIT SUBMITTALS TO ALL SUB-CONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE START OF CONSTRUCTION.
2. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, AND SEQUENCES.
3. THE GENERAL CONTRACTOR SHALL COORDINATE ALL OPENINGS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS AND SUB-CONTRACTORS.
4. REFERENCE THE COMPLETE CONTRACT DOCUMENTS ASSESS FROM THE STRUCTURAL DRAWINGS SUCH AS:
 - a. IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SHOWN OR SPECIFIED IN SIMILAR CONDITIONS.
 - b. UNDER NORMAL CONDITIONS, AND FOR CONVENTIONAL BUILDINGS SUCH AS THE SUBJECT MATTER, REINFORCED CONCRETE AND MASONRY WORKED CRACKS. THE CRACKS ARE DUE TO INHERENT SHRINKAGE OF CONCRETE, CREEP AND THERMAL STRESSING EFFECTS OF VERTICAL AND OTHER STRUCTURAL ELEMENTS TO WHICH THE BEAMS/LABS ARE TIED.

2. THE CRACKS FORMED ARE NORMALLY COSMETIC. THE S/LAB MAINTAINS ITS SERVICEABILITY AND STRENGTH REQUIREMENTS. IT IS EMPHASIZED THAT ALTHOUGH SPECIAL EFFORT IS MADE TO REDUCE THE POTENTIAL CAUSES AND NUMBER OF SUCH CRACKS, IT IS NOT PRACTICAL TO PROVIDE TOTAL PROTECTION BETWEEN THE FLOOR SYSTEM AND ITS SUPPORTS AND THEREBY ACHIEVE COMPLETE INHIBITION OF SUCH CRACKS.

4. THE OBJECT OF THE JOINTS PROVIDED IS TO ALLOW MOVEMENT. MOVEMENTS DUE TO CREEP AND SHRINKAGE MAY BE NOTICEABLE AT JOINTS UP TO TWO YEARS AFTER CONSTRUCTION, BEYOND WHICH MOVEMENTS DUE TO VARIATIONS IN TEMPERATURE WILL PERSIST.

6. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE EXISTING BUILDINGS AT THE JOB SITE AND REPORT ANY DISCREPANCIES FROM ASSUMED CONDITIONS SHOWN ON THE DRAWINGS TO THE ENGINEER PRIOR TO FABRICATION, ERECTION, OR INSTALLATION OF ANY STRUCTURAL MEMBERS.

7. WORK SHOWN ON THE DRAWINGS IS NEW CONSTRUCTION, UNLESS NOTED AS EXISTING IN THE DRAWINGS.
8. EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS IS LIMITED SITE OBSERVATION. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS.

9. DEMOLITION, CUTTING, DRILLING, ETC. OF EXISTING WORK SHALL BE PERFORMED WITH HIGH CAUTION SUCH THAT IT DOES NOT JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING. IF ANY ENGINEER, STRUCTURAL, OR MEP MEMBER OR ELEMENTS ARE CONFLICTING WITH THE NEW CONSTRUCTION, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY AND APPROVAL SHALL BE OBTAINED PRIOR TO REMOVING CONFLICTING MEMBERS OR ELEMENTS.
10. THE CONTRACTOR SHALL SHORE EXISTING CONSTRUCTION WHEREVER EXISTING SUPPORTS ARE REMOVED TO ALLOW THE INSTALLATION OF NEW CONSTRUCTION. ALL SHORING METHODS AND SEQUENCING OF DEMOLITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
11. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION AND TAKE EXTRA CARE TO PROTECT EXISTING UTILITIES THAT ARE TO REMAIN.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES CAUSED DURING CONSTRUCTION WITH SIMILAR AND DISMILAR MATERIALS AS WELL AS WORKMANSHIP TO RESTORE CONDITIONS TO LEVELS ACCEPTABLE TO THE OWNER.

E. ADJACENT BUILDINGS

1. THE GENERAL CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION WILL NOT CAUSE DAMAGE TO THE ADJACENT BUILDINGS AND PROPERTY.
2. RESPONSIBILITY OF THE CONTRACTOR
 - a. ALL STRUCTURAL ELEMENTS AND MEMBERS OF THE PROJECT HAVE BEEN DESIGNED BY THE STRUCTURAL ENGINEER TO RESIST THE CONSTRUCTION FRAMEWORK AND LATERAL LOADS THAT COULD OCCUR IN THE FINAL COMPLETED STRUCTURE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BRACE, STABILIZE, AND MAINTAIN SAFETY OF ALL STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PROCESS UNTIL THE STRUCTURAL SYSTEM HAS BEEN COMPLETED.
 - b. IF THE STRUCTURE HAS BEEN DESIGNED TO THE VERTICAL AND LATERAL LOADS INDICATED IN THESE DOCUMENTS, THE CONTRACTOR IS CAUTIONED NOT TO OVERLOAD THE STRUCTURAL SYSTEM DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE ADEQUACY OF THE STRUCTURE TO SUPPORT ANY APPLIED CONSTRUCTION LOADS, INCLUDING THOSE DUE TO CONSTRUCTION VEHICLES OR EQUIPMENT, MATERIAL HANDLING AND STORAGE, SHORING OR RESHORING, OR ANY OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL SUBMIT CALCULATIONS SIGNED AND SEALED BY A LICENSED REGISTERED ENGINEER IN THE STATE THE PROJECT IS LOCATED TO VERIFY THE ADEQUACY OF THE STRUCTURE FOR ANY PROPOSED CONSTRUCTION LOADS THAT ARE IN EXCESS OF THE STRUCTURE DESIGN LOADS. THE ENGINEER OF RECORD IS NOT RESPONSIBLE TO DESIGN OR CHECK THE STRUCTURE FOR LOADS APPLIED BY ANY CONSTRUCTION ACTIVITY.

3. SUBSTITUTIONS
 - a. ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL THAT DIFFER FROM THE MATERIAL OR PRODUCTS SPECIFIED IN THE STRUCTURAL DOCUMENTS WILL BE APPROVED ONLY IF THERE IS A COST SAVINGS TO THE OWNER, DOCUMENTED, AND AN INTERNATIONAL CODE COUNCIL (ICC) REPORT IS SUBMITTED WITH THE REQUEST.
 - b. FOR SUBSTITUTIONS FOR ANY MATERIALS OR PRODUCTS SUPPORTING VERTICAL OR LATERAL LOADS SHALL BE SUBMITTED WITH SIGNED AND SEALED CALCULATIONS BY A LICENSED REGISTERED ENGINEER IN THE STATE THE PROJECT IS LOCATED IN ADDITION TO THE CRITERIA STATED ABOVE. REFER TO THE SPECIFICATIONS ON SUBSTITUTIONS.

4. COORDINATION WITH GEOTECHNICAL ENGINEER
 - a. THE GEOTECHNICAL ENGINEER SHALL BE THE OWNER'S REPRESENTATIVE TO CONTROL THE PLACEMENT OF COMPACTED FILL.
 - b. THE GEOTECHNICAL ENGINEER SHALL APPROVE THE SUBGRADE PREPARATION, THE SELECT FILL MATERIAL, THE METHOD OF PLACEMENT, AND COMPACTION.
 - c. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE PLACEMENT AND TESTING OF ALL LIFTS WITH THE GEOTECHNICAL ENGINEER. FAILURE TO DO SO WILL REQUIRE REMOVAL OF FILL AT THE CONTRACTORS EXPENSE.
 - d. A WRITTEN SOILS REPORT SHALL BE FORMULATED BY THE GEOTECHNICAL ENGINEER TO INDICATE APPROVAL OF THE COMPLETED FILL.

G. GEOTECHNICAL REPORT

1. THE PROJECT GEOTECHNICAL REPORT SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS.
2. ALL EARTHWORK AND GRADING SHALL BE PERFORMED ACCORDANCE WITH THE RECOMMENDATIONS INDICATED IN THE REPORT OR AS INDICATED ABOVE WHICHEVER IS MORE STRINGENT.
3. INSTRUCTION DRAWING
4. THE CONTRACTOR SHALL DETERMINE THE EXTENT OF CONSTRUCTION DETERMINING REQUIRED FOR THE EXCAVATION. THE CONTRACTOR SHALL SUBMIT TO THE GEOTECHNICAL ENGINEER FOR REVIEW THE PROPOSED PLAN FOR CONSTRUCTION DETERMINING, PRIOR TO BEGINNING THE EXCAVATION.

DESIGN CRITERIA

1. FOUNDATION AND FRAMING DESIGN IS IN ACCORDANCE WITH THE BC 2021
2. GEOTECHNICAL REPORT: (PENDING GEOTECH REPORT)
BY:
PROJ. NO.:
DATE:
MINIMUM DEPTH: 30"
MINIMUM BEAM WIDTH: 12 INCHES
BEARING CAPACITY (UNDREIN BEAM FOOTINGS) 1.5 KSF
BEARING CAPACITY (CONTINUED BEAM FOOTING) 1.5 KSF
DESIGN PLASTICITY INDEX 10
PIR (EXISTING) 10
3. ROOF:
DEAD LOAD: 20 PSF
LIVE LOAD: 20 PSF
4. WIND: BASIC WIND SPEED (SE GUST): 147 MPH

GEOTECHNICAL INVESTIGATION

THE OWNER OF THIS PROJECT HAS DECLINED TO FURNISH A GEOTECHNICAL INVESTIGATION REPORT THEREFORE THE FOUNDATION DESIGN WAS BASED UPON AVERAGE SOIL CONDITIONS IN HIDALGO COUNTY, TEXAS. IF HIGHLY EXPANSIVE OR MODERATELY SOILS OR SOFT SOILS ARE ENCOUNTERED, DIFFERENTIAL FOUNDATION MOVEMENTS CAN BE EXPECTED. ALTHOUGH AN ATTEMPT TO MAKE ASSUMPTIONS THAT WILL NOT IMPAIR STRUCTURAL INTEGRITY OF THE PROJECT, WE DO NOT HAVE THE EXPERTISE OR BENEFIT OF LABORATORY INVESTIGATIONS OF A GEOTECHNICAL ENGINEER. THEREFORE THIS FIRM CANNOT ASSUME RESPONSIBILITY FOR THE PERFORMANCE OF THE DESIGN FOUNDATION SHOULD A SURFACE OR SUBSURFACE SOIL CONDITIONS VARY FROM THOSE ASSUMED.

FOLLOWING ASSUMPTIONS:

1. SOIL BEARING PRESSURE (AT PROPOSED SITE) = 1500 PSF

FOUNDATION SUBGRADE:

A. PREPARATION OF EXISTING GRADE

1. ALL AREA TO SUPPORT SELECT FILL SHALL BE STRIPPED OF ALL VEGETATION AND/OR ORGANIC TOPSOIL.
2. REMOVE ALL TREES AND ROOTS WITHIN THE BUILDINGS FOOTPRINT INCLUDING CANOPES AND OTHER STRUCTURAL FOUNDATIONS SHOWN IN THESE CONTRACT DOCUMENTS.
3. THE SCOPE OF EXISTING GRADE SHALL BE AS FOLLOWS:
 - a. MINIMUM DEPTH OF REMOVAL: PER GEOTECH REPORT
 - b. EXTEND BEYOND THE BUILDING FOOTPRINT: 5 FEET

B. EXCAVATION

1. WHERE SELECT FILL IS INDICATED IN THESE CONTRACT DOCUMENTS, THE CORRESPONDING SCOPE OF EXCAVATION SHALL BE AS FOLLOWS:
 - a. MINIMUM ELEVATION OF EXCAVATION: PER GEOTECH REPORT
 - b. EXTEND BEYOND THE BUILDING FOOTPRINT: 5 FEET

2. THE EXPOSED SUBGRADE, AFTER EXCAVATION, SHOULD BE PRODFORMED IN ACCORDANCE WITH ITEM 2116 OF TxDOT'S 2014 STANDARD.
3. WEAK OR SOFT AREAS IDENTIFIED DURING PROOOFING ACTIVITIES SHALL BE TREATED WITH HYDRATED LIME OR PORTLAND CEMENT OR REMOVED AND REPLACED WITH SUITABLE, COMPACTED SELECT FILL. IF THE TREATMENT IS SELECTED, WEAK OR SOFT AREAS MAY BE MIXED WITH HYDRATED LIME OR PORTLAND CEMENT DOWN TO A MINIMUM DEPTH OF 8 INCHES.
4. THE EXPOSED SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF 12 INCHES AND MOISTURE CONDITIONED TO WITHIN 0.1% TO 0.2% OF THE OPTIMUM MOISTURE CONTENT.
5. THE SUBGRADE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698.

6. FOLLOWING COMPLETE LAYERING AND PREPARATION OF THE SITE FOR CONSTRUCTION, THE GEOTECHNICAL ENGINEER SHALL OBSERVE THE SITE TO DETERMINE THAT SATISFACTORY PREPARATION HAS BEEN ACCOMPLISHED.

C. SELECT FILL

1. THE FOLLOWING SOILS MAY BE CONSIDERED SATISFACTORY FOR USE AS SELECT FILL MATERIAL AT THIS SITE:
 - a. SOILS CLASSIFIED ACCORDING TO USCS AS SC, SM, GM, CL, ML, AND COMBINATIONS OF THESE SOILS
 - b. SELECT FILL SHALL HAVE A LIQUID LIMIT OF LESS THAN 40
 - c. SELECT FILL SHALL HAVE A PLASTICITY INDEX BETWEEN AND INCLUSIVE OF 8 AND 20, LL < 40
2. THE NATIVE SOILS AT THIS SITE ARE NOT CONSIDERED SUITABLE FOR USE AS SELECT FILL MATERIAL.
3. PLACEMENT OF SELECT FILL SHALL MEET THE FOLLOWING CRITERIA:
 - a. SELECT FILL SHALL BE CONDITIONED AND COMPACTED UP TO THE PROPOSED FINISH FLOOR ELEVATION.
 - b. FILL LIFT NOT EXCEEDING 8 INCH LOOSE LIFTS IS INCHES COMPACTED)
 - c. MOISTURE CONTENT: -3% TO 3% WITH OPTIMUM
 - d. COMPACTION: 95% OF MAXIMUM DRY DENSITY DETERMINED BY ASTM D698
4. ORGANIC OR SOFT AREAS IDENTIFIED DURING PROOOFING ACTIVITIES SHALL BE TREATED WITH HYDRATED LIME OR PORTLAND CEMENT OR REMOVED AND REPLACED WITH SUITABLE, COMPACTED SELECT FILL. IF THE TREATMENT IS SELECTED, WEAK OR SOFT AREAS MAY BE MIXED WITH HYDRATED LIME OR PORTLAND CEMENT DOWN TO A MINIMUM DEPTH OF 8 INCHES.
5. THE EXPOSED SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF 12 INCHES AND MOISTURE CONDITIONED TO WITHIN 0.1% TO 0.2% OF THE OPTIMUM MOISTURE CONTENT.
6. THE SUBGRADE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698.

7. SOILS CLASSIFIED AS BASE MATERIAL MEETING THE REQUIREMENTS OF TxDOT 2014 SPECIFICATION ITEM 247 TYPE 1, GRADE 4 - CALUSE (SEE TABLE 3 FOR SPECIFICATIONS & REQUIREMENTS) OR ITEM 247 TYPE 1, GRADE 12 - LIMESTONE (SEE TABLE 4 FOR SPECIFICATIONS & REQUIREMENTS).
8. BZZ RECOMMENDS ADDITIONAL QUALITY CONTROL OF ALL STRUCTURAL FILL MATERIALS AS THEY ARE PLACED AND COMPACTED TO ENSURE THAT THEY MEET THE REQUIREMENTS SPECIFIED.

9. STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM 98 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D698 AT MOISTURE CONDITIONS RANGING BETWEEN WINS 10.5 (2) AND PLUS TWO (+2) PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT. STRUCTURAL FILL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 8 INCHES (8 INCHES COMPACTED). THE FILL SHOULD BE PROPERLY COMPACTED IN ACCORDANCE WITH THESE RECOMMENDATIONS AND TESTED FOR COMPACTION AS SPECIFIED.
10. PLEASE REFERENCE GEOTECH REPORT FOR STRUCTURAL FILL GRADATION TO RESPECTIVE TYPE.

D. PERIMETER FOUNDATION CAP

1. THE FINAL 18 INCHES OF FILL OUTSIDE THE BUILDING AREA SHOULD CONSIST OF A COHESIVE LOW PERMEABILITY SOIL (CL OR CLC) SOIL. THE CLAY CAP SHALL BE 6 INCHES THICK AND SHALL BE PLACED ON A FOUNDATION WITH A MINIMUM GRADIENT OF 6 INCHES IN 5 FEET AND THE SURROUNDING AREAS SHOULD HAVE A POSITIVE DRAINAGE. REFER TO THE CIVIL DRAWINGS FOR FINAL ELEVATIONS.
2. THE CLAY CAP CANNOT BE PLACED TO DRY OUT DURING OR AFTER CONSTRUCTION. THE MINIMUM PLASTICITY INDEX SHALL BE 20.
3. THE CLAY CAP SHALL BE A MINIMUM 50% BY WEIGHT PASSING THE NO. 200 SIEVE.
4. THE CLAY CAP SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DRY DENSITY DETERMINED BY ASTM D698.
5. IF PLANTINGS ARE INTENDED, ADD 4 TO 6 INCHES OF LUMP ON TOP OF THE CLAY CAP.

E. FILL CONDITIONS

1. IN THE EVENT FOUNDATION EXCAVATIONS ARE CARRIED TO A DEPTH GREATER THAN REQUIRED, THE ADDITIONAL DEPTH SHALL BE FILLED WITH THE SAME CONCRETE AS THAT FOR THE FOOTINGS AT NO ADDITIONAL EXPENSE TO THE OWNER. NO UNCONTROLLED CLAY WILL BE PERMITTED.
2. THE FOOTING EXCAVATIONS SHALL BE KEPT FREE FROM LOOSE MATERIAL AND STANDING WATER.
3. CARE SHOULD BE TAKEN TO SHAPE THE BUILDING AREAS SUCH THAT WATER WILL NOT POND AROUND THE STRUCTURE DURING CONSTRUCTION AND CAUSE THE NEAR SURFACE CLAYS TO SWELL. THE PROPOSED STRUCTURE SHALL BE ISOLATED FROM ANY MOISTURE SOURCE WHICH MIGHT ALSO CAUSE SWELLING OF THE CLAYS AFTER COMPLETION OF THE CONSTRUCTION.
4. WHEN THE STRUCTURE IS COMPLETE, THE GROUND SURFACE SHOULD SLOPE AWAY FROM THE STRUCTURE.
5. DO NOT PLANT OR LEAVE IN PLACE DEEP ROOTED TREES WITHIN PROXIMITY TO THE PERIMETER OF THE STRUCTURE. DEEP-ROOTED TREES HAVE THE POTENTIAL TO REMOVE MOISTURE FROM BENEATH THE BUILDING IF PLANTED CLOSE ENOUGH TO ALLOW THE ROOTS WATER TO EXTEND NEAR OR BENEATH THE BUILDING.
6. A DRAINAGE/CONDENSER DRAIN LINES SHALL DISCHARGE WATER AWAY FROM THE PERIMETER OF THE STRUCTURE. THE DISCHARGE AREA SHALL HAVE SUFFICIENT SLOPE AWAY FROM THE STRUCTURE TO PREVENT STANDING WATER.

F. COORDINATION WITH GEOTECHNICAL ENGINEER

1. THE GEOTECHNICAL ENGINEER SHALL BE THE OWNER'S REPRESENTATIVE TO CONTROL THE PLACEMENT OF COMPACTED FILL.
2. THE GEOTECHNICAL ENGINEER SHALL APPROVE THE SUBGRADE PREPARATION, THE SELECT FILL MATERIAL, THE METHOD OF PLACEMENT, AND COMPACTION.
3. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE PLACEMENT AND TESTING OF ALL LIFTS WITH THE GEOTECHNICAL ENGINEER. FAILURE TO DO SO WILL REQUIRE REMOVAL OF FILL AT THE CONTRACTORS EXPENSE.
4. A WRITTEN SOILS REPORT SHALL BE FORMULATED BY THE GEOTECHNICAL ENGINEER TO INDICATE APPROVAL OF THE COMPLETED FILL.

G. GEOTECHNICAL REPORT

1. THE PROJECT GEOTECHNICAL REPORT SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS.
2. ALL EARTHWORK AND GRADING SHALL BE PERFORMED ACCORDANCE WITH THE RECOMMENDATIONS INDICATED IN THE REPORT OR AS INDICATED ABOVE WHICHEVER IS MORE STRINGENT.

INSTRUCTION DRAWING

1. THE CONTRACTOR SHALL DETERMINE THE EXTENT OF CONSTRUCTION DETERMINING REQUIRED FOR THE EXCAVATION. THE CONTRACTOR SHALL SUBMIT TO THE GEOTECHNICAL ENGINEER FOR REVIEW THE PROPOSED PLAN FOR CONSTRUCTION DETERMINING, PRIOR TO BEGINNING THE EXCAVATION.

GENERAL

1. THE NOTES AND SPECIFICATIONS PROVIDED ON THE STRUCTURAL DRAWINGS ARE EXCERPTS FROM THE RELATING PROJECT SPECIFICATIONS. THEY ARE NEITHER COMPLETE NOR DO THEY REPLACE THE CONTRACT SPECIFICATIONS.
2. CODE: CONSTRUCTION SHALL CONFORM TO THE PROVISIONS OF THE 2021 INTERNATIONAL BUILDING CODE OF LATEST ADOPTION AND ALL STANDARDS REFERENCED THEREIN IN THEIR ENTIRETY, WITH ALL LOCALLY ADOPTED AMENDMENTS, REFERENCED THEREIN.
3. MEANS AND METHODS: THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS AND METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS RELATING TO THE SPECIFIC STRUCTURAL ERECTION ITEMS ADDRESSED IN THE LATEST ADOPTED REGULATIONS.
4. GENERAL DETAILS AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS. ALL WORK OR CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATION AND SAFETY REQUIREMENTS.

5. UNLESS AUTHORIZED BY A FORMAL CHANGE ORDER, RESPONSES TO QUESTIONS AND RFIS, COMMENTS MADE DURING THE REVIEW OF SUBMITTALS, AND DIRECTIVES PROVIDED IN ANY FORM BY THE ENGINEER TO THE CONTRACTOR DURING THE CONSTRUCTION PROCESS ARE INTENDED TO BE CLARIFICATIONS OF THE CONTRACT DOCUMENTS OR CORRECTIONS TO THE PERCEIVED INTERPRETATION OF THE INTENT OF CONTRACT DOCUMENTS BY THE CONTRACTOR. SUCH CLARIFICATIONS AND CORRECTIONS ARE NOT INTENDED TO REPRESENT A CHANGE IN COST OF THE PROJECT TO THE OWNER AND ARE CONSIDERED TO BE INFERRABLE FROM THE CONTENT OF THE CONTRACT DRAWINGS OR CONSISTENT WITH INDUSTRY STANDARDS OF CONSTRUCTION. IF THE CONTRACTOR DETERMINES THAT SUCH CLARIFICATIONS AND CORRECTIONS HAVE AN IMPACT ON THE COST OF THE PROJECT TO THE OWNER, THE CONTRACTOR SHALL SUBMIT A CHANGE ORDER REQUEST WITH DETAILED PRICING INFORMATION TO THE ARCHITECT BEFORE PURCHASING, DETAILING, FABRICATING OR INSTALLING ANY COMPONENT RELATED TO SUCH CLARIFICATIONS AND CORRECTIONS.
6. DISCREPANCIES: THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS. UPON RECEIPT OF SUCH INFORMATION, THE ENGINEER WILL SEND WRITTEN INSTRUCTIONS TO ALL CONCERNED. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND WORK SHALL BE PERFORMED IN A MANNER AS DIRECTED BY THE ENGINEER.

7. SHORING: IT SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING, AND FORMWORK, AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING THE CONSTRUCTION OF THIS BUILDING. EXCESS LOAD CAPACITY OF SLAB SHALL NOT EXCEED LOADS EQUIVALENT TO THE DESIGN SUPERIMPOSED LOADS LESS CONSTRUCTION DEAD AND LIVE LOADS. DESIGN SUPERIMPOSED LOADS INCLUDE LIVE LOAD, PARTITION LOAD, AND ANY OTHER LOAD NOT IN PLACE AT THE TIME OF SHORING. FLOORS ARE NOT DESIGNED TO SUPPORT FORMWORK AND WET CONCRETE. WEIGHT OF NEXT LEVEL CONTRACTOR SHALL DESIGN AND PROVIDE RE-SHORING TO PREVENT OVERSTRESSING THE STRUCTURE.

8. EXCAVATION: THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT.

9. OTHER TRADES: IT IS NOT THE INTENT THAT THE STRUCTURAL DRAWINGS BE VIEWED AS STAND ALONE DRAWINGS WITH RESPECT TO PROJECT DIMENSIONS OR ANY OTHER COMPONENT OF THE CONSTRUCTION THAT CAN AND MAY BE IDENTIFIED IN OTHER PARTS OF THE CONTRACT DOCUMENTS. IT REQUIRES THE ENTIRE SET OF CONTRACT DOCUMENTS TO PROPERLY CONSTRUCT THE STRUCTURE, AS WELL AS OTHER COMPONENTS OF THE BUILDING. ANCHORS REQUIRED FOR ANCHORING MECH EQUIPMENT AND / OR PIPING ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL DETERMINE AND COORDINATE REQUIREMENTS FROM OTHER DISCIPLINES AND SHALL PROVIDE APPROPRIATE ALLOWANCES INTO THE BID. IT IS THE CONTRACTORS RESPONSIBILITY TO ASSEMBLE AND COORDINATE THE REQUIREMENTS OF ALL COMPONENTS OF THE CONTRACT DOCUMENTS IN ORDER TO PROPERLY IMPLEMENT THE REQUIREMENTS OF THE CONTRACT. SEE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF PIPES, VENTS, CHASES, DUCTS AND OTHER OPENINGS AND DETAILS NOT SHOWN ON THESE STRUCTURAL DRAWINGS. ALL DIMENSIONS ARE TO BE CHECKED AND VERIFIED WITH THE ARCHITECTURAL DRAWINGS.

10. BRACING: THESE DRAWINGS ILLUSTRATE THE PRIMARY STRUCTURAL FRAME IN ITS COMPLETED FORM. TEMPORARY BRACING, PROPERLY DESIGNED UNDER THE SUPERVISION OF A LICENSED STRUCTURAL ENGINEER, SHALL BE PROVIDED AS REQUIRED TO HOLD ALL COMPONENTS OF THE STRUCTURE IN PLACE UNTIL FINAL SUPPORT IS SECURELY ANCHORED.

11. INSPECTIONS: ANY INSPECTIONS, SPECIAL, OR OTHERWISE, THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR THESE PLANS, SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY. JOB SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE, OR SUBSTITUTE, INSPECTIONS UNLESS SPECIFICALLY CONTRACTED FOR.

12. THE LOCATION AND DIMENSIONS OF ALL OPENINGS, DEPRESSIONS, RECESSES, SLOPES, BLOCKOUTS, CURBS, AND EMBEDMENTS SHOWN IN THE STRUCTURE WHICH ARE RELATED TO PURPOSES DEPICTED IN CONTRACT DOCUMENTS OTHER THAN THE STRUCTURAL DRAWINGS OR BY MANUFACTURERS AND INSTALLERS OF VARIOUS EQUIPMENT AND FINISHES SHALL BE VERIFIED BY THE CONTRACTOR TO BE SUITABLE FOR THE PURPOSES DEPICTED BY THE CONTRACT DOCUMENTS. REQUIRING SUCH ITEMS OR TO BE SUITABLE FOR THE INSTALLATION OF VARIOUS EQUIPMENT AND FINISHES. ANY REQUIREMENT FOR RELLOCATION OR CHANGE IN DIMENSIONS OF ANY OPENING, DEPRESSION, RECESS, SLOPE, BLOCKOUT, OR EMBEDMENT SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER IN DRAWING FORM PRIOR TO THE FABRICATION OF MATERIALS OR CONSTRUCTION. AN ALLOWANCE SHALL BE INCLUDED IN THE BID PRICE SUFFICIENT TO ADEQUATELY COVER STRUCTURAL REQUIREMENTS FOR SUCH ITEMS WITHOUT NEED FOR A FUTURE CHANGE TO THE BID PRICE.

13. VARIOUS OPENINGS, DEPRESSIONS, RECESSES, SLOPES, BLOCKOUTS, CURBS, AND EMBEDMENTS NOT SHOWN IN THE STRUCTURAL DRAWINGS MAY BE REQUIRED IN THE STRUCTURE FOR PURPOSES DEPICTED IN CONTRACT DOCUMENTS OTHER THAN THE STRUCTURAL DRAWINGS OR BY THE MANUFACTURERS AND INSTALLERS OF VARIOUS EQUIPMENT AND FINISHES. THE CONTRACTOR SHALL INCORPORATE AND COORDINATE THE LOCATION AND DIMENSIONS OF ANY OPENING, DEPRESSION, RECESS, SLOPE, BLOCKOUT, OR EMBEDMENT INTO THE STRUCTURE AS REQUIRED TO BE SUITABLE FOR THE PURPOSES DEPICTED BY THE CONTRACT DOCUMENTS. REQUIRING SUCH ITEMS OR TO BE SUITABLE FOR THE INSTALLATION OF VARIOUS EQUIPMENT AND FINISHES. THE SUITABLE LOCATION AND DIMENSIONS OF ALL OPENINGS, DEPRESSIONS, RECESSES, SLOPES, BLOCKOUTS, AND EMBEDMENTS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER IN DRAWING FORM PRIOR TO THE FABRICATION OF MATERIALS OR CONSTRUCTION. AN ALLOWANCE SHALL BE INCLUDED IN THE BID PRICE SUFFICIENT TO ADEQUATELY COVER STRUCTURAL REQUIREMENTS FOR SUCH ITEMS WITHOUT NEED FOR A FUTURE CHANGE TO THE BID PRICE.

14. LOADINGS: FOR MECHANICAL EQUIPMENT, ARE BASED ON THE UNITS SHOWN ON THE MECHANICAL DRAWINGS, AND IN THE EQUIPMENT SCHEDULE. ANY CHANGES IN TYPE, SIZE, WEIGHT, OR NUMBER OR PIECES OF EQUIPMENT SHALL BE REPORTED TO THE ARCHITECT FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.

15. SUBSTITUTIONS & DEVIATIONS: PROPOSED SUBSTITUTION OF MATERIALS, PRODUCTS OR DETAILS DEPICTED IN THE CONTRACT DOCUMENTS SHALL BE SUBMITTED ONLY DURING THE BIDDING PERIOD. AFTER BIDS ARE ACCEPTED, INTENT IN WRITING OF ANY PROPOSED SUBSTITUTIONS OR ANY PROPOSED DEVIATIONS TO THE STRUCTURE AS REQUIRED BY THESE DOCUMENTS SHALL BE SUBMITTED WITH BACKUP DATA IDENTIFYING THE REASON FOR THE PROPOSED SUBSTITUTION OR DEVIATION. FOR PROPOSED SUBSTITUTIONS OF PRODUCTS, THE BACKUP DATA SHALL INCLUDE CURRENT I.C.B.O. REPORT. THE PROPOSED SUBSTITUTIONS SHALL BE CONSIDERED AFTER ACCEPTANCE OF BIDS, ONLY WHEN THEY ARE SUBMITTED WITH DOCUMENTED SAVINGS TO BE DEDUCTED FROM THE PROJECT CONTRACT AMOUNT. MATERIALS OR PRODUCTS THAT DO NOT HAVE AN I.C.B.O. REPORT, WILL NOT BE CONSIDERED FOR SUBSTITUTIONS.

16. SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS. NOT SHOWN AND FOR EXACT LOCATIONS OF ALL SLAB DEPRESSIONS. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL SECTIONS WITH THE ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL MEMBERS.

17. THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION MATERIALS WHOSE WEIGHT EXCEEDS THE DESIGN LIVE LOADS INDICATED ON THE STRUCTURAL DRAWINGS ARE NOT STORED ON STRUCTURALLY SUPPORTED FLOOR OR ROOF FRAMING.

18. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE GRADES WITH THE CIVIL ENGINEER'S GRADING PLAN AND THE LANDSCAPE ARCHITECTS PLAN.

19. THE DRAWINGS IN THE STRUCTURAL DOCUMENTS ARE NOT TO BE SCALED FOR ANY PURPOSE, INCLUDING THE DETERMINATION OF QUANTITIES AND THE FIT UP OF MATERIALS.

20. THESE PLANS MUST BE SUBMITTED FOR REVIEW BY THE GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.

21. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST AGENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUB-CONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, AND ERECTION IN THE FIELD.

22. PRECONSTRUCTION MEETINGS: THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING PRECONSTRUCTION MEETINGS FOR THE FOUNDATION AND SUPERSTRUCTURE ELEMENTS OF THE PRIMARY FRAME WITH A MINIMUM OF TWO WEEKS OF NOTICE PRIOR TO START OF THE RELEVANT WORK. ATTENDEES SHALL INCLUDE THE CONTRACTORS, APPROPRIATE SUBCONTRACTORS, FABRICATORS, INSPECTORS, ARCHITECT/ENGINEERS, ON THE MEETING AGENDA SHALL BE REVIEW OF WORK SCOPE, PROJECT SCHEDULE OF THE ELEMENT IN QUESTION, CONTACT INFORMATION OF RESPONSIBLE PARTIES, INSPECTION POINTS, REVIEW OF MATERIALS AND ANY SPECIAL DESIGN ISSUES, CLARIFICATIONS, TESTING AND ACCEPTANCE, AND ANY OTHER TOPIC DEEMED APPROPRIATE BY THE CONTRACTOR OR THE ARCHITECT.

23. EXISTING UTILITIES: UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL PLANS, THE LOCATION OF ANY EXISTING SUBGRADE UTILITIES IS UNKNOWN. FOUNDATION CONSTRUCTION MAY HAVE TO BE MODIFIED UPON DISCOVERY OF SUCH ITEMS. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICT OF EXISTING UTILITY ITEMS WITH THE CONSTRUCTION OF FOUNDATION ELEMENTS.

24. ROOF DRAINAGE: THE ROOF STRUCTURE AND ITS SUPPORTING ELEMENTS HAVE BEEN DESIGNED WITH THE ASSUMPTION THAT SUFFICIENT DRAINAGE HAS BEEN PROVIDED TO PREVENT ANY PONDING OF WATER.

CODES

1. BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE WITH CITY OF EDINBURG, TEXAS AMENDMENTS.
2. STRUCTURAL CONCRETE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE, ACI 318.
3. STRUCTURAL STEEL MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN, AMERICAN INSTITUTE OF STEEL CONSTRUCTION, 13TH EDITION.
4. ASCE 7-16

WELDING

1. REFERENCES:

1. AWS D1.148 - "STRUCTURAL WELDING CODE - STEEL"
2. AWS D1.341 - "STRUCTURAL WELDING CODE - SHEET STEEL"

2. ALL WELDING BY AWS QUALIFIED OPERATORS.

COORDINATION

1. ONLY LARGER SLEEVE OPENINGS AND FRAMED OPENINGS IN STRUCTURAL FRAMING COMPONENTS MEMBERS ARE INDICATED ON THE STRUCTURAL DRAWINGS. HOWEVER, ALL SLEEVES, INSERTS AND OPENINGS, INCLUDING FRAMES AND/OR SLEEVES SHALL BE PROVIDED FOR PASSAGE, PROVISION AND/OR INCORPORATION OF THE WORK OF THE CONTRACT, INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING. THIS WORK SHALL NOT BE THE OWNER'S RESPONSIBILITY. SIZES, ALIGNMENT, DIMENSIONS, POSITION, LOCATIONS, ELEVATIONS AND GRADES AS REQUIRED TO SERVE THE INTENDED PURPOSE. OPENINGS NOT INDICATED ON THE STRUCTURAL DRAWINGS, BUT REQUIRED AS NOTED ABOVE, SHALL BE SUBMITTED



TEXAS ARCHITECT
FIRM No: BR4247
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SEAL:

ECISD HIGH
SCHOOL
ATHLETIC
MULTI-USE
BUILDING
25-74

J.
ECONOMEDES
HIGH SCHOOL

1414 N Alamo
Rd, Edinburg,
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CLIENT:
EDINBURG CISD

REVISION:		
No.	Description	Date

PROJECT #: 25-030102
DRAWN BY:
CHECKED BY:
DATE: 5/14/25

GENERAL
NOTES

ADDENDUM #2

S1.1

REINFORCED CONCRETE:

A. GENERAL

1. VERIFY ALL DIMENSIONS. COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO BIDDING, AND/OR CONSTRUCTION.
2. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI) SPECIFICATIONS, ACI 301, ACI 308, AND ACI 117 LATEST EDITIONS. FOOTINGS, MATS, AND DRILLED PIERS SHALL COMPLY WITH ACI 308, LATEST EDITION.
3. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS, AND ALL ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI 318 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE", LATEST EDITION.

B. CLASSES OF CONCRETE

1. REFERENCE 19S12.2 FOR THE MINIMUM 28-DAY COMPRESSIVE STRENGTH (f_c) FOR ALL CLASSES OF CONCRETE.

C. CONCRETE MIX

1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE CONCRETE MIX FOR EACH CLASS OF CONCRETE TO ACHIEVE THE 28-DAY COMPRESSIVE STRENGTH. PREPARE DESIGN MIXES SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE. THE PROJECT IS IN FOR EACH CLASS OF CONCRETE, PROPORTIONED ACCORDING TO ACI 301, FOR BOTH NORMALWEIGHT AND LIGHTWEIGHT CONCRETE DETERMINED BY EITHER LABORATORY TRIAL MIX OR FIELD TEST DATA.
2. FIELD EXPERIENCE OR TRIAL MIXTURES ARE ACCEPTABLE PROVIDED ALL CRITERIA ARE MET:
 - a. THE CONTRACTOR PROVIDES PROPER DOCUMENTATION OF THE STRENGTH TEST RECORDS NOT MORE THAN 24 MONTHS OLD AND SHALL CLEARLY INDICATE MATERIALS, QUALITY CONTROL PROCEDURES, AND CONDITIONS SIMILAR TO THOSE EXPECTED FOR THE PROJECT. THE CONCRETE MATERIALS INCLUDED IN THE MIX DESIGN SHALL BE THE SAME MATERIALS PROVIDED FOR THE PROJECT, AND SHALL BE PREPARED BY AN INDEPENDENT TESTING LABORATORY APPROVED BY THE OWNER.
 - b. A MINIMUM OF 30 CONSECUTIVE TESTS OR TWO GROUPS OF CONSECUTIVE TESTS TOTALING TO 30 TESTS.
 - c. ALL CONSECUTIVE TESTS ARE WITHIN 1000 PSI OF f_c .
 - d. THE CONTRACTOR SHALL SUBMIT A CALCULATION OF THE SAMPLE STANDARD DEVIATION AND THE REQUIRED AVERAGE COMPRESSIVE STRENGTH, f_{cr} , IN ACCORDANCE TO ACI 318 (EDITION 10) DESIGN CRITERIA SECTION R5.1 AND TABLE 5.2.2.1, RESPECTIVELY.
3. SLUMP: REFERENCE 19S12.2 FOR SLUMP, f_c UNLESS NOTED OTHERWISE. BE REQUESTED BY THE CONTRACTOR WHEN CHARACTERISTICS OF MATERIALS, WEATHER, TEST RESULTS, OR OTHER CIRCUMSTANCES WARRANT, AT NO ADDITIONAL COST TO OWNER AND AS ACCEPTED BY THE OWNER. LABORATORY TEST DATA FOR REVISED MIX DESIGN RESULTS MUST BE SUBMITTED TO AND ACCEPTED BY THE OWNER OR OWNER REP. BEFORE USING IN WORK. BOTH THE CONCRETE TESTING AND INSPECTION AGENCY AND THE CONCRETE CONTRACTOR SHALL SATISFY THEMSELVES THAT THE CONCRETE MIX DESIGN WILL PRODUCE A CONCRETE MIX THAT WILL MEET THE SPECIFICATIONS FOR THIS PROJECT. IN ADDITION, THE CONTRACTOR AND CONCRETE FINISHER SHALL VERIFY THAT THE WORKABILITY, FINISH, AND SETTING TIMES ARE APPROPRIATE FOR CONCRETE INSTALLATIONS. PLACEMENT SHALL BE MADE BY CHUTE DIRECTLY FROM THE CONCRETE TRUCKS, IF PUMPING OF THE CONCRETE IS CONTEMPLATED FOR ANY SPECIAL LOCATIONS. THE PROPORTIONS ESTABLISHED ABOVE SHALL NOT BE ALTERED TO THE CAPABILITIES OF THE PUMPING EQUIPMENT. PUMP SHALL NOT BE PRIME OVER STRUCTURAL CONCRETE LOCATIONS.
5. READY MIX CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM C94, DISCHARGE OF THE CONCRETE SHALL BE COMPLETED WITHIN 90 MINUTES OR BEFORE THE DRUM HAS REVOLVED 300 REVOLUTIONS, WHICHEVER COME FIRST.
6. WATER/CEMENT RATIO SHALL BE BASED ON SURFACE DRY MATERIAL. REFERENCE 19S12.2.
7. PORTLAND CEMENT: CONFORM TO ASTM C150, TYPE I. USE ONE MANUFACTURER OF CEMENT THROUGHOUT THE PROJECT.
8. FLY ASH: CONFORM TO ASTM C618.
9. COARSE AND FINE AGGREGATES: CONFORM TO ASTM C33 FOR NORMALWEIGHT CONCRETE AND ASTM C330 FOR LIGHTWEIGHT CONCRETE.
10. WATER: CONFORM WITH ASTM C1602.
11. CHEMICAL ADMIXTURES: ALL CONCRETE SHALL CONTAIN CHEMICAL ADMIXTURES TO OBTAIN THE SPECIFIED DESIGN STRENGTH IN ACCORDANCE WITH ASTM C494.
12. AIR-ENTRAINING ADMIXTURES: SHALL CONFORM TO ASTM C260. AIR-ENTRAINING ADMIXTURE SHALL NOT BE USED IN INTERIOR CONCRETE.
13. WATER-REDUCING ADMIXTURE: SHALL CONFORM TO ASTM C494, TYPE A AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS.
14. WATER-REDUCING, RETARDING ADMIXTURE: SHALL CONFORM TO ASTM C494, TYPE D, AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS.
15. HIGH RANGE WATER-REDUCING ADMIXTURE (SUPERPLASTICIZER): SHALL CONFORM TO ASTM C494, TYPE F OR TYPE G AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS.
16. WATER-REDUCING, NON-CORROSIVE ACCELERATING ADMIXTURE: SHALL CONFORM TO ASTM C494, TYPE C OR E AND CONTAIN NOT MORE CHLORIDE IONS THAN THAT ARE PRESENT IN MUNICIPAL DRINKING WATER. THE ADMIXTURE MANUFACTURER MUST HAVE LONG-TERM, NON-CORROSIVE TEST DATA FROM AN INDEPENDENT TESTING LABORATORY (OF AT LEAST A YEAR'S DURATION) USING AN ACCEPTABLE ACCELERATED CORROSION TEST METHOD SUCH AS THAT USING ELECTRICAL POTENTIAL MEASURES.
17. PROHIBITED ADMIXTURES: CALCIUM CHLORIDE OR ADMIXTURES CONTAINING MORE THAN 0.05% CHLORIDE IONS ARE NOT PERMITTED.

D. CONSTRUCTION JOINTS

1. NO HORIZONTAL CONSTRUCTION JOINTS WILL BE PERMITTED IN SLABS OR BEAMS BLOCK OUT "BLEDS" SHALL BE DEMOLISHED.
2. VERTICAL CONSTRUCTION JOINTS IN SLABS OR BEAMS ARE TO BE SHOWN ON PLANS OR AS APPROVED BY THE ENGINEER.
3. SURFACE OF CONSTRUCTION JOINTS SHALL BE CLEANED AND LAITANCE REMOVED.
4. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, ALL CONSTRUCTION JOINTS SHALL BE WETTED AND STANDING WATER REMOVED.
5. REFERENCE TYPICAL DETAILS FOR CONSTRUCTION JOINT REINFORCING AND SHEAR KEY REQUIREMENTS.
6. CONSTRUCTION JOINTS IN FLOORS SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE SPAN OF SLABS, BEAMS, AND GIRDERS.
7. CONSTRUCTION JOINTS IN GIRDERS SHALL BE OFFSET A MINIMUM DISTANCE OF TWO TIMES THE WIDTH OF THE INTERSECTING BEAMS.
8. BEAMS, GIRDERS, HAUNCHES, DROP PANELS, SHEAR CAPS, AND CAPITALS SHALL BE PLACED MONOLITHICALLY UNLESS NOTED OTHERWISE.

E. OPENINGS AND PENETRATIONS

1. ALL OPENINGS IN SLAB (FOR PIPES, DRAINS, ETC.) SHALL BE SEALED WITH SEALANT.
2. UTILITIES THAT PROJECT THROUGH SLAB FLOORS SHALL BE DESIGNED WITH SLEEVES IN ORDER TO PREVENT DAMAGE TO THE LINE SHOULD ANY MOVEMENT OCCUR.
3. ALL OPENINGS AND PENETRATIONS ARE TO BE REINFORCED AROUND THE PERIMETER. REFERENCE THE TYPICAL DETAILS FOR REINFORCING REQUIREMENTS.

F. EMBEDMENTS

1. ANCHOR RODS, DOWELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR TO PLACING CONCRETE.
2. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ALL HOLES, GROOVES, REGLETS, PIPES, CONDUITS, INSERTS, ETC. TO BE CAST IN CONCRETE. PROVIDE OVERSIZED SLEEVES FOR PLUMBING AND ELECTRICAL CONDUITS AND PIPES. NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE FOOTINGS, BEAMS, COLUMNS, WALLS, OR SLABS UNLESS DETAILED IN STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER OF RECORD.
3. CONDUITS ARE PERMITTED TO BE LOCATED BELOW SLAB-ON-GRADE REINFORCING THESE MUST BE LOCATED BELOW THE DESIGN DEPTH OF THE SLAB WITHIN A THICKENED SLAB. COORDINATE INSTALLATION OF RACEWAYS PRIOR TO PLACEMENT.
4. NO LIQUID, GAS, OR VAPOR, EXCEPT WATER NOT EXCEEDING 90 DEGREES FAHRENHEIT NOR 50 PSI PRESSURE SHALL BE PLACED IN THE PIPES UNTIL THE CONCRETE HAS ACHIEVED ITS DESIGN STRENGTH.
5. ALUMINUM CONDUITS, PIPES, OR OTHER INSERTS ARE NOT PERMITTED TO BE EMBEDDED INTO STRUCTURAL CONCRETE.

G. FORMWORK, SHORING, AND BACKSHORING

1. ALL FORMWORK SHALL BE DESIGNED BY THE GENERAL CONTRACTOR IN ACCORDANCE TO THE ACI 347 "GUIDE TO FORMWORK FOR CONCRETE" LATEST EDITION.
2. DESIGN OF FORMWORK SHALL CONSIDER:
 - a. RATE AND METHOD OF PLACING CONCRETE.
 - b. CONSTRUCTION LOADS, INCLUDING VERTICAL, HORIZONTAL, AND IMPACT LOADS.
 - c. SPECIAL FORM REQUIREMENTS FOR CONSTRUCTION OF CURVED MEMBERS, SHELLS, FOLDED PLATES, DOMES, ARCHITECTURAL CONCRETE, OR SIMILAR TYPES OF ELEMENTS.
3. FORMS SHALL BE PROPERLY BRACED OR TIED TOGETHER TO MAINTAIN POSITION OF SHAPE.
4. FORMS SHALL BE SUBSTANTIAL, AND SUFFICIENTLY TIGHT TO PREVENT LEAKAGE OR BLOWOUTS.
5. FORMS SHALL BE REMOVED SUCH THAT IT DOES IMPAIR THE SAFETY, SERVICEABILITY, AND STRUCTURAL INTEGRITY OF THE STRUCTURE.
6. BEFORE STARTING CONSTRUCTION, THE GENERAL CONTRACTOR IS RESPONSIBLE IN DEVELOPING A PROCEDURE AND SCHEDULE FOR REMOVAL OF SHORES AND INSTALLATION OF RESHORES AND FOR CALCULATING THE LOADS TRANSFERRED TO THE STRUCTURE DURING THE PROCESS.
7. NO CONSTRUCTION LOADS SHALL BE SUPPORTED ON, ANY SHORING REMOVED FROM, ANY PART OF THE STRUCTURE UNDER CONSTRUCTION EXCEPT SHORING HAS SUFFICIENT STRENGTH TO SUPPORT, SAFELY, ITS SELF-WEIGHT AND LOADS PLACED THEREON.
8. SUFFICIENT STRENGTH OF THE STRUCTURE BEING CONSIDERED IS OBTAINED WHEN THE CONCRETE STRENGTH HAS REACHED ITS DESIGN STRENGTH THROUGH APPROVED TESTING.

H. CONCRETE TESTING

1. CONCRETE SHALL BE TESTED IN ACCORDANCE TO ASTM C172, ASTM C31, ASTM C39, ASTM D3665, AND ACI 214R, ALL LATEST EDITION.
2. FREQUENCY OF SAMPLES FOR STRENGTH TESTING OF EACH CLASS OF CONCRETE SHALL BE:
 - a. ONCE EACH DAY A GIVEN CLASS IS PLACED.
 - b. ONCE FOR EACH 150 CYD OF EACH CLASS PLACED EACH DAY.
 - c. FOR SLABS OR WALLS LESS THAN OR EQUAL TO 9" 3/4" THICK, SAMPLING SHALL BE ONCE FOR EACH 5000 SQ FT OF SLAB OR WALL SURFACE AREA (ONE SIDE ONLY) PLACED EACH DAY. FOR SLABS OR WALLS GREATER THAN 9" 3/4" THICK, SAMPLING SHALL BE ONCE FOR EACH 2500 SQ FT OF SLAB OR WALL SURFACE AREA (ONE SIDE ONLY) PLACED EACH DAY.
3. CONCRETE TESTING SHALL BE THREE SETS OF CYLINDERS (ONE SET CONSISTS OF THREE 4 BY 8 IN CYLINDERS TESTED FOR COMPRESSION AT 7 DAYS AND THREE 4 BY 8 IN CYLINDERS AT 28 DAYS, 1 CYLINDER AT 56 DAYS).
4. WHERE THE TOTAL VOLUME OF CONCRETE FOR A GIVEN CLASS OF CONCRETE WOULD BE LESS THAN FIVE TESTS, PROVIDE A TEST FOR EACH BATCH.
5. LABORATORY AND FIELD TECHNICIANS SHALL BE CERTIFIED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI CONCRETE FIELD TESTING TECHNICIAN GRADE I CERTIFICATION PROGRAM OR THE REQUIREMENTS OF ASTM C1077 OR AN EQUIVALENT PROGRAM.
6. TEST REPORTS SHOULD BE PROMPTLY DISTRIBUTED TO THE OWNER, ARCHITECT, ENGINEER, GENERAL CONTRACTOR, SUB-CONTRACTORS, SUPPLIERS, AND BUILDING OFFICIAL TO ALLOW EITHER COMPLIANCE OR THE NEED FOR CORRECTIVE ACTION.
7. STRENGTH LEVEL OF AN INDIVIDUAL CLASS OF CONCRETE SHALL MEET THE FOLLOWING CRITERIA:
 - a. THE AVERAGE OF THREE CONSECUTIVE STRENGTH TESTS SHALL BE EQUAL TO OR EXCEED THE DESIGN STRENGTH, f_c .
 - b. THE AVERAGE OF THE STRENGTHS OF EACH TEST SHALL NOT FALL BELOW THE DESIGN STRENGTH, f_c , BY MORE THAN 500 PSI FOR $f_c \leq 5000$ PSI OR BY 1% FOR $f_c \geq 5000$ PSI.
8. IF THE CRITERIA ABOVE IS NOT MET, THREE CORE DRILLED SAMPLES IN THE AREA OF QUESTION SHALL BE TAKEN, AT THE EXPENSE OF THE GENERAL CONTRACTOR, FOR EACH STRENGTH TEST THAT FAILS TO MEET THE CRITERIA. TESTING OF CORE DRILLED SAMPLES SHALL BE IN ACCORDANCE TO ASTM C42.
9. CORE DRILLED SAMPLES SHALL BE TESTED NO EARLIER THAN 48 HOURS AND NOT LATER THAN 7 DAYS AFTER CURING.

REINFORCED CONCRETE (CONT):

I. PLACEMENT OF CONCRETE

1. READY-MIXED CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE TO ASTM C94.
2. CONCRETE SHALL BE CONVEYED FROM MIXER TO PLACE OF FINAL DEPOSIT BY METHODS THAT WILL PREVENT SEPARATION OR LOSS OF MATERIALS. CONCRETE SHALL BE DEPOSITED AT OR NEAR ITS FINAL POSITION BY THE USE OF PUMPS, TREMIES, AND OTHER MEANS AND METHODS.
3. DO NOT ALLOW CONCRETE TO FREE FALL MORE THAN 3 FEET DURING PLACEMENT.
4. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED DURING PLACEMENT IN ACCORDANCE TO ACI 308R LATEST EDITION.
5. MECHANICALLY VIBRATE ALL CONCRETE DURING PLACEMENT TO AVOID AIR ENTRAPMENTS.
6. NO CONCRETE PLACEMENT IS PERMITTED WHEN THE TEMPERATURE OF FRESH CONCRETE IS GREATER THAN OR EQUAL TO 95°F.
7. NO CONCRETE PLACEMENT IS PERMITTED DURING RAIN FALL.
8. COLD WEATHER REQUIREMENTS:
 - a. WHEN THE AMBIENT TEMPERATURE IS BELOW 50°F, PLACEMENT OF CONCRETE SHALL BE IN ACCORDANCE TO ACI 308R.
 - b. ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND PROTECTING CONCRETE DURING FREEZING OR NEAR-FREEZING WEATHER.
 - c. ALL CONCRETE MATERIAL AND ALL REINFORCING, FORMS, FILLERS, AND GROUND WITH WHICH CONCRETE IS TO COME IN CONTACT SHALL BE FREE OF FROST.
9. HOT WEATHER REQUIREMENTS:
 - a. WHEN THE AMBIENT TEMPERATURE EQUALS OR EXCEEDS 80°F, PLACEMENT OF CONCRETE SHALL BE IN ACCORDANCE TO ACI 308R.
 - b. PROPER ATTENTION SHALL BE GIVEN TO CONCRETE MIX, PRODUCTION METHODS, HANDLING, PLACING, PROTECTION, CURING TO PREVENT EXCESSIVE CONCRETE TEMPERATURES OR WATER EVAPORATION THAT COULD IMPAIR THE REQUIRED DESIGN STRENGTH.
 - c. NON-TOXIC EVAPORATION RETARDERS ARE ACCEPTABLE PROVIDED THE PRODUCT DOES NOT IMPAIR THE REQUIRED DESIGN STRENGTH. WHEN USED, THE GENERAL CONTRACTOR MUST EXERCISE PROPER SAFETY MEASURES.
10. ALL EXPOSED CONCRETE SHALL HAVE A SMOOTH FINISH SURFACE. EXPOSED CONCRETE SURFACES WITH SPALLS, CHIPS, CRACKS, HONEYCOMBS, DISCOLORATION, AND OTHER IMPERFECTIONS SHALL BE PATCHED WITH A FAST-SETTING, READY TO USE, CEMENTITIOUS POLYMER-MODIFIED REPAIR MORTAR THAT SHALL MEET ALL THE FOLLOWING CRITERIA:
 - a. MINIMUM COMPRESSIVE STRENGTH = 5000 PSI @ 28 DAYS IN ACCORDANCE WITH ASTM C109
 - b. MINIMUM FLEXURAL STRENGTH = 1100 PSI @ 28 DAYS IN ACCORDANCE WITH ASTM C293
 - c. MINIMUM BOND STRENGTH = 1800 PSI @ 28 DAYS IN ACCORDANCE WITH ASTM C282
 - d. COLOR = CONCRETE GRAY
 - e. COMPACTIVITY ≤ 110 PCF
 - f. TOLERANCES

1. ALL CONCRETE TOLERANCES SHALL COMPLY WITH ACI 117, "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS" LATEST EDITION.
2. ALL SLAB-ON-GRADES AND SUSPENDED FLOOR SLABS SHALL BE TESTED FOR FLOOR FLATNESS AND FLOOR LEVELNESS IN ACCORDANCE TO ASTM E1155 UTILIZING THE F-NUMBER METHOD. THE SLAB-ON-GRADE AND SUSPENDED FLOOR SLABS MEASURED F-NUMBERS SHALL MEET THE FOLLOWING CLASSIFICATION:
 - a. SPECIFIED OVERALL FLOOR FLATNESS (SOF): 25
 - b. SPECIFIED OVERALL FLOOR LEVELNESS (SOLF): 20
 - c. MINIMUM LOCAL FLOOR FLATNESS (MLF): 0.8/SOLF
 - d. MINIMUM LOCAL FLOOR LEVELNESS (MLFL): 0.8/SOLF
3. F-NUMBERS SHALL BE MEASURED WITHIN 72 HOURS OF PLACING THE SLAB.
4. WHERE DEFICIENCIES ARE DETECTED, REMEDIATION TO THE DEFICIENT AREA WILL BE REQUIRED AT THE EXPENSE OF THE GENERAL CONTRACTOR. REMEDIAL PROCEDURES SUCH AS, BUT NOT LIMITED TO, GRINDING OR THE USE OF A SELF-LEVELING UNDERLAYMENT SHALL BE DETERMINED BY THE CONTRACTOR TO BRING THE DEFICIENT AREA IN COMPLIANCE WITH MINIMUM TOLERANCES.
5. IN ALL INSTANCES THE MINIMUM SLAB WALL THICKNESS, DEEP BEAMS AND WIDTHS, COLUMN DIMENSIONS, SHALL BE OBTAINED. COORDINATE SLAB FINISHES WITH ARCHITECTURAL PLANS.

K. PLACEMENT OF REINFORCEMENT

1. ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. REFERENCE "REINFORCING STEEL" NOTES FOR ADDITIONAL INFORMATION.
 - a. REINFORCEMENT SHALL BE CONTINUOUS ACROSS THE ENTIRE CONCRETE SURFACE UNLESS NOTED OTHERWISE.
 - b. PROVIDE Z-BARS, SAME SIZE AND SPACING AND IN THE APPLICABLE DIRECTION WHERE THE SLAB STEPS DOWN MORE THAN 3". THE Z-BARS SHALL LAP THE MAIN SLAB REINFORCING STEEL AS NEEDED.
3. GRADE BEAMS, CONTINUOUS WALL FOOTINGS, AND SPREAD FOOTINGS:
 - a. REINFORCEMENT SHALL BE CONTINUOUS ACROSS THE ENTIRE PROFILE UNLESS NOTED OTHERWISE.
 - b. PROVIDE CORNER BARS, TOP AND BOTTOM, AT ALL BEAM CORNERS AND DEAD END BEAM INTERSECTIONS. REFERENCE APPLICABLE DETAILS FOR ADDITIONAL INFORMATION. BARS TO EQUAL SIZE AND QUANTITY OF THE NOTED BEAM STEEL BARS UNLESS NOTED OTHERWISE.
 - c. EXTEND THE SLAB REINFORCING STEEL PERPENDICULAR TO BEAM, TO THE TOP OUTSIDE REINFORCING BAR OF THE PERIMETER BEAMS. START THE SLAB REINFORCING STEEL, PARALLEL TO THE BEAM, NOT MORE THAN 6" FROM THE TOP INSIDE REINFORCING BAR OF PERIMETER BEAMS.
 - d. VERTICAL REINFORCEMENT SHALL BE TIED AND FIXED IN POSITION AT THE TOP AND BOTTOM AND AT INTERMEDIATE LOCATIONS, SPACED NOT GREATER THAN 18 INCHES ON CENTER.
4. DRILLED PIERS:
 - a. REINFORCEMENT SHALL BE CONTINUOUS ACROSS THE ENTIRE PROFILE UNLESS NOTED OTHERWISE.
5. SUSPENDED SLAB (ONE-WAY):
 - a. REINFORCEMENT SHALL BE CONTINUOUS ACROSS THE ENTIRE CONCRETE SURFACE. DESIGN REINFORCING IS PLACED PARALLEL TO THE DIRECTION OF SPAN. TEMPERATURE STEEL IS PROVIDED PERPENDICULAR TO THE DIRECTION OF THE SPAN.
 - b. WHERE LAP SPICES OF BARS ARE REQUIRED, LOCATE BOTTOM BAR LAP SPICES OVER CONCRETE BEAMS OR GIRDERS, AND LOCATE TOP BAR LAP SPICES AT MIDSPAN IN BETWEEN BEAMS.
 - c. REFERENCE TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS.
6. SUSPENDED SLAB (TWO-WAY):
 - a. TOP AND BOTTOM REINFORCING MATS SHALL BE CONTINUOUS EACH WAY UNLESS NOTED OTHERWISE.
 - b. ADDITIONAL BARS ARE SHOWN ON THE DRAWINGS.
 - c. WHERE LAP SPICES OF BARS ARE REQUIRED, LOCATE BOTTOM BAR LAP SPICES CENTERED TO THE COLUMN STRIPS, AND TOP BAR LAP SPICES CENTERED TO THE MODULAR STRIPS IN EACH DIRECTION.
 - d. REFERENCE DETAILS FOR ADDITIONAL REQUIREMENTS.
7. BEAMS AND GIRDERS:
 - a. REFERENCE REINFORCING SCHEDULE FOR LONGITUDINAL BAR PLACEMENT. BARS ARE TO BE CONTINUOUS UNLESS NOTED OTHERWISE.
 - b. REFERENCE TYPICAL DETAILS FOR BAR LAP SPICES. LOCATE LAP SPICES OF BOTTOM BARS CENTERED OVER SUPPORTS, AND LOCATE TOP BAR LAP SPICES CENTERED AT MIDSPAN IN BETWEEN SUPPORTS.
 - c. REFERENCE DETAILS FOR ADDITIONAL REQUIREMENTS.
8. COLUMNS:
 - a. PROVIDE CONTINUOUS LONGITUDINAL REINFORCING EQUALLY SPACED.
 - b. WHEN REQUIRED, LAP SPICE LONGITUDINAL REINFORCING WITH A CLASS B TENSION LAP SPICE.
 - c. REFERENCE DETAILS FOR ADDITIONAL REQUIREMENTS.
9. WALLS:
 - a. PROVIDE CONTINUOUS REINFORCING IN BOTH DIRECTIONS AND IN EACH FACE WHERE APPLICABLE.
 - b. AT HORIZONTAL CONSTRUCTION JOINTS (CONSTRUCTION LIFTS), VERTICAL BARS MUST PROJECT THE LAP SPICE LENGTH AS SCHEDULED AS A MINIMUM LENGTH. THE GENERAL CONTRACTOR MUST COORDINATE BAR PLACEMENTS TO AVOID OVER-REINFORCING THE CONCRETE WALL.
 - c. REFERENCE DETAILS FOR ADDITIONAL INFORMATION.
10. DOWELS:
 - a. WALLS, PLASTERS, AND COLUMNS SHALL BE DOWELED TO THE SUPPORTING FOOTINGS WITH REINFORCEMENT OF THE SAME SIZE, GRADE AND AT THE SAME SPACING AS THE VERTICAL REINFORCEMENT IN THE WALLS, PLASTERS, OR COLUMNS UNLESS NOTED OTHERWISE.

NOTES:

1. ALL CONCRETE COMPRESSIVE STRENGTHS NOTED IN THE TABLE ABOVE ARE THE MINIMUM COMPRESSIVE STRENGTH, f_c , AT 28-DAYS UNLESS NOTED OTHERWISE.
2. ALL MIXES SHALL HAVE A MINIMUM OF 5 SACKS (470 LBS) OF CEMENTITIOUS MATERIAL PER CUBIC YARD REGARDLESS OF STRENGTH OBTAINED.
3. ALL CONCRETE SHALL BE CONSIDERED TO BE IN EXPOSURE F0, S0, P0, AND C0 ACCORDING TO ACI 318 UNLESS NOTED OTHERWISE IN TABLE ABOVE OR IN THE STRUCTURAL DRAWINGS.

1 CLASSES OF CONCRETE MATRIX SCHEDULE

CONCRETE USAGE	MINIMUM COMPRESSIVE STRENGTH, f_c	CONCRETE WEIGHT	EXPOSURE CLASS	MAXIMUM WATER/CEMENT RATIO	MAXIMUM AGGREGATE SIZE (IN)	MAXIMUM SLUMP (IN)	REMARKS
SHALLOW FOUNDATIONS							
SPREAD FOOTINGS	3000 PSI @ 28 DAYS	NWC	C1	0.5	1"	5"	
WALL FOOTINGS	3000 PSI @ 28 DAYS	NWC	C1	0.5	1"	5"	
SLAB-ON-GRADE	3000 PSI @ 28 DAYS	NWC	C1	0.5	1"	5"	
MISCELLANEOUS							
HOUSEKEEPING PADS	3000 PSI @ 28 DAYS	NWC	C1	0.5	1"	5"	
ALL OTHER CONCRETE	3000 PSI @ 28 DAYS	NWC	C1	0.5	1"	5"	

REINFORCED CONCRETE (CONT):

11. TOPPING SLABS:
 - a. PROVIDED WELDED WIRE REINFORCING 6X6-W2.9XW2.9 IN ALL TOPPING SLABS UNLESS NOTED OTHERWISE.
12. HOUSEKEEPING PADS:
 - a. PROVIDED #5 AT 12" ON CENTER EACH WAY IN ALL HOUSEKEEPING PADS THAT SUPPORT MECHANICAL EQUIPMENT.
- L. VAPOR RETARDER:
 - a. REFERENCE DRAWINGS FOR LOCATION AND EXTENTS OF VAPOR RETARDERS. FOR SLAB-ON-GRADE FOUNDATIONS, A VAPOR RETARDER IS TO BE INSTALLED OVER APPROVED SELECT FILL UNLESS NOTED OTHERWISE.
 2. FOR ALL CONDITIONS, THE VAPOR RETARDER SHALL CONFORM TO ASTM E1745, CLASS A AND SHALL HAVE A MINIMUM WATER VAPOR PERMEANCE OF 0.01 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E96. THE VAPOR RETARDER SHALL NOT BE LESS THAN 15 MILS THICK.
3. PRE-APPROVED PRODUCTS:
 - a. STECO WRAP 15 MIL VAPOR BARRIER (CLASS A).
 - b. OTHERS PROPOSED BY SUBMITTAL PROCESS.

4. INSTALLATION:

- a. LAY SHEETS SMOOTHLY, STRETCH AND WEIGHT EDGES, LAP JOINTS AND SEAL WITH TAPE AS SPECIFIED BY THE VAPOR RETARDER MANUFACTURER. TURN THE RETARDER UP AT WALLS AND AT ALL PIPES, ABUTMENTS, ETC., AND TAPE AND SEAL AT PENETRATIONS AND AT EDGES AS SPECIFIED BY THE VAPOR RETARDER MANUFACTURER.

5. PATCHING:

- a. PATCH ALL PUNCTURES WITH A MINIMUM OVERLAP OF 6" IN ALL DIRECTIONS AND TAPE AROUND THE ENTIRE PERIMETER OF REPAIR.

M. PRE-INSTALLATION CONFERENCE

1. AT LEAST 30 DAYS PRIOR TO THE START OF THE CONCRETE CONSTRUCTION SCHEDULE, THE CONTRACTOR SHALL CONDUCT A MEETING TO REVIEW THE PROPOSED MIX DESIGNS AND TO DISCUSS THE REQUIRED METHODS AND PROCEDURES TO ACHIEVE THE REQUIRED CONCRETE CONSTRUCTION. THE CONTRACTOR SHALL SEND A PRE-INSTALLATION CONFERENCE AGENDA TO ALL ATTENDEES 30 DAYS PRIOR TO THE SCHEDULED DATE OF THE CONFERENCE.
2. THE CONTRACTOR SHALL REQUIRE RESPONSIBLE REPRESENTATIVES OF EVERY PARTY CONCERNED WITH THE CONCRETE WORK TO ATTEND THE CONFERENCE, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - a. GENERAL CONTRACTOR'S SUPERINTENDENT
 - b. LABORATORY RESPONSIBLE FOR CONCRETE MIXES AND/OR FIELD QUALITY CONTROL
 - c. READY-MIX CONCRETE PRODUCER
 - d. CONCRETE SUB-CONTRACTOR
 - e. JOINT FILLING APPLICATOR
3. MINUTES OF THE MEETING SHALL BE RECORDED, TYPED AND PRINTED BY THE CONTRACTOR AND DISTRIBUTED TO ALL CONCERNED PARTIES, INCLUDING THE OWNER'S REPRESENTATIVE, THE ARCHITECT, AND THE STRUCTURAL ENGINEER WITHIN FIVE DAYS OF THE MEETING.

N. CONCRETE SUB-CONTRACTOR QUALIFICATION

1. THE CONCRETE SUB-CONTRACTOR SHALL INCLUDE IN THEIR BID PACKAGE TO THE GENERAL CONTRACTOR SUFFICIENT DATA THAT CLEARLY INDICATES THE CONCRETE CONTRACTOR'S ABILITY TO SUCCESSFULLY PERFORM THE WORK AND TO ACHIEVE THE TOLERANCES SPECIFIED IN THIS SECTION.

O. CONCRETE CURING

1. CONCRETE SHALL BE MAINTAINED ABOVE 50°F AT ALL TIMES.
2. CONCRETE OTHER THAN HIGH-EARLY STRENGTH CONCRETE, SHALL BE IN MOIST CONDITION FOR AT LEAST 7 DAYS.
3. HIGH-EARLY STRENGTH CONCRETE SHALL BE IN MOIST CONDITION FOR AT LEAST 3 DAYS.
4. EXTERIOR CURING: ALL EXTERIOR CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE-FORMING CURING COMPOUND. THE LIQUID MEMBRANE-FORMING CURING COMPOUND SHALL MEET THE REQUIREMENTS OF ASTM C1315 WITH A MAXIMUM VOLATILE ORGANIC CONTENT (VOC) OF 700 g/L.
5. INTERIOR CURING: ALL INTERIOR CONCRETE SLABS SHALL BE CURED USING A REDUCED ODOR, DISSIPATING LIQUID MEMBRANE-FORMING CURING COMPOUND THAT IS FORMULATED FROM HYDROCARBON RESINS. THE DISSIPATING LIQUID MEMBRANE-FORMING CURING COMPOUND SHALL MEET THE REQUIREMENTS OF ASTM C309 WITH A MAXIMUM VOLATILE ORGANIC CONTENT (VOC) OF 350 g/L. APPLY AT 400 SF/GALLON.
6. CURING COMPOUNDS SHALL BE PLACED WITHIN 4 HOURS AFTER PLACEMENT OF CONCRETE.
7. FOR POLISHED SLAB FINISHES, PROVIDE BURLAP MEMBRANES DURING ENTIRE CONSTRUCTION OF THE BUILDING. DO NOT PROVIDE CURING COMPOUND.

P. CONTRACTION JOINTS IN SLAB-ON-GRADE

1. FORM 1/8" WEAKENED-PLANE CONTRACTION JOINTS SPACED NOT FURTHER THAN 15'-0" ON CENTER EACH WAY. SECTION CONCRETE INTO AREAS AS INDICATED IN THE DRAWINGS.
2. CONSTRUCT CONTRACTION JOINTS FOR A DEPTH EQUAL TO AT LEAST 1/4 OF THE CONCRETE THICKNESS.
3. SAWED JOINTS: ALL SAW CUTTING SHALL BE ACCOMPLISHED WITH A SOFT-CUT SAW AS SOON AS THE SLAB WILL SUPPORT THE WEIGHT OF THE SAW AND OPERATOR.
4. CONCRETE DUST SHALL BE REMOVED COMPLETELY AND IMMEDIATELY.
5. ALL CONTRACTION JOINTS SHALL BE CAULKED WITH AN EFFECTIVE SEALANT THAT CAN BOND TO THE CONCRETE, IS IMPERMEABLE, AND ABLE TO WITHSTAND THERMAL EXPANSION AND CONTRACTION.

Q. CONCRETE PROTECTION

1. SLAB PROTECTION:
 - a. FOR ALL MOTORIZED AND HYDRAULIC EQUIPMENT PREVENT FLUID LEAKS.
 - b. PROVIDE NON-MARKING TIRES ON RUBBER Tired VEHICLES OR EQUIP RUBBER TIRES WITH TIRE BOOTS MADE OF NYLON FABRIC.
 - c. PROVIDE MATS AT ALL ENTRANCES TO PREVENT MUD STAINS.
 - d. COVER SLAB PRIOR TO PAINTING. ALL SPILLS ARE TO BE CLEANED WITH SOAP AND WATER.

R. CONCRETE COVER

1. REINFORCING STEEL COVERAGE SHOULD CONFORM TO THE REQUIREMENTS OF THE ACI 318 (EDITION IN THE DESIGN CRITERIA SECTION 7 AND THE DETAILS.
2. INCREASE COVER TO MAINTAIN THE MINIMUM SPECIFIED WHERE REINFORCING STEEL INTERSECTS FOR DIFFERENT MEMBER TYPES.
3. THE REINFORCING STEEL DETAILER SHALL ADJUST REINFORCING STEEL CASE SIZES AT INTERSECTING STRUCTURAL MEMBERS AS REQUIRED TO ALLOW CLEARANCE FOR INTERSECTING REINFORCING BAR LAYERS WITH MINIMUM SPECIFIED COVER.
4. MINIMUM CONCRETE COVER FOR REINFORCING AS FOLLOWS:
 - a. ALL CONCRETE CAST AND PERMANENTLY EXPOSED TO EARTH..... 3"
 - b. CONCRETE EXPOSED TO EARTH OR WEATHER:
 - i. #6 THROUGH #18..... 2"
 - i. #5, W31 OR D31, AND SMALLER..... 1-1/2"
 - c. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
 - i. #11 AND SMALLER..... 1-1/2"
 - i. #14 THROUGH #18..... 1-1/4"
 - d. BEAMS, COLUMNS..... 1-1/2"

POST-INSTALLED ANCHORS:

A. GENERAL

1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS.
2. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE EOR PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED ANCHORS OR IN PLACES WHERE ANCHORS ARE NOT REQUIRED.
3. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REINFORCING STEEL.
4. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

B. SUBSTITUTIONS

1. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW SHALL BE SUBMITTED BY THE CONTRACTOR TO THE EOR ALONG WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
2. THE CALCULATIONS SHALL DEMONSTRATE THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY CODE.

C. SPECIAL INSPECTION

1. REFERENCE "SPECIAL INSPECTION AND MATERIAL TESTING" FOR SPECIAL INSPECTION REQUIREMENTS FOR POST-INSTALLED ANCHORS.
2. THE SPECIAL INSPECTOR SHALL PROVIDE CONTINUOUS SPECIAL INSPECTION FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE EVALUATION REPORT.
2. INSTALLATION TRAINING/PRE-INSTALLATION CONFERENCE:
 - a. CONTACT MANUFACTURER'S REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY PRIOR TO INSTALLING ALL POST-INSTALLED ANCHORS.

E. CONCRETE ANCHORS

1. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 305.2 AND ICC-ES AC108 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
 - a. SIMPSON STRONG-TIE
 - i. SIMPSON STRONG-TIE "TITEN-HD" AND "TITEN-HD ROD HANGER" (ICC-ES ESR-2713)
 - ii. SIMPSON STRONG-TIE "STRONG-BOLT" (ICC-ES ESR-1771)
 - iii. SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-3037)
 - iv. SIMPSON STRONG-TIE "TORQ-OUT" (ICC-ES ESR-2705)

2. ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 305.4 AND ICCES AC308 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. A PRE-APPROVED ADHESIVE ANCHORING SYSTEM INCLUDE:

- a. SIMPSON STRONG-TIE
- i. SIMPSON STRONG-TIE "AT-XP" ADHESIVE (ICC-ES AC308)
- ii. SIMPSON STRONG-TIE "SET-XP" ADHESIVE (ICC-ES ESR-2508)

3. POWDER ACTUATED FASTENERS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICCES AC107. PRE-APPROVED POWDER ACTUATED FASTENERS INCLUDE:

GENERAL NOTES

VERIFICATION AND INSPECTION OF STRUCTURAL STEEL WELDING

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	SPECIAL INSPECTOR		REFERENCE STANDARD	IBC REFERENCE
		QCI	QAI		
YES	1. INSPECTION TASK PRIOR TO WELDING: a. WELDING PROCEDURES SPECIFICATIONS (WPS) AVAILABLE	P	P		
YES	b. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	PP			
YES	c. MATERIAL IDENTIFICATION (TYPE/GRADE)	OO			
YES	d. WELDER IDENTIFICATION SYSTEM	OO			
YES	e. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) 1) JOINT PREPARATION 2) DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) 3) CLEANLINESS (CONDITION OF STEEL SURFACES) 4) TACKING (TACK WELD QUALITY AND LOCATION) 5) BACKING TYPE AND FIT (IF APPLICABLE)	OO		AISC 360-10 TABLE NS 4-1, AWS D1.1	1705.2.1
YES	f. CONFIGURATION AND FINISH OF ACCESS HOLES g. FIT-UP OF FILLET WELDS 1) DIMENSIONS (ALIGNMENT, GAPS AT ROOT) 2) CLEANLINESS (CONDITION OF STEEL SURFACES) 3) TACKING (TACK WELD QUALITY AND LOCATION)	OO			
YES	h. CHECK WELDING EQUIPMENT i. INSPECTION TASK DURING WELDING: a. USE OF QUALIFIED WELDERS b. CONTROL AND HANDLING OF WELDING CONSUMABLES 1) PACKING 2) EXPOSURE CONTROL	O-			
YES	c. NO WELDING OVER CRACKED TACK WELDS d. ENVIRONMENTAL CONDITIONS 1) WIND SPEED WITHIN LIMITS 2) PRECIPITATION AND TEMPERATURE	OO			
YES	e. WPS FOLLOWED 1) SETTINGS ON WELDING EQUIPMENT 2) TRAVEL SPEED 3) SELECTED WELDING MATERIALS 4) SHIELDING GAS TYPE/FLOW RATE 5) PREHEAT APPLIED 6) INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) 7) PROPER POSITION (F, V, H, OH)	OO		AISC 360-10 TABLE NS 4-2, AWS D1.1	1705.2.1
YES	f. WELDING TECHNIQUES 1) INTERPASS AND FINAL CLEANING 2) EACH PASS WITHIN PROFILE LIMITATIONS 3) EACH PASS MEETS QUALITY REQUIREMENTS	OO			
YES	3. INSPECTION TASK AFTER WELDING: a. WELDS CLEANED b. SIZE, LENGTH AND LOCATION OF WELDS c. WELD MEET VISUAL ACCEPTANCE CRITERIA 1) CRACK PROHIBITION 2) WELD BASE METAL FUSION 3) CRATER CROSS SECTION 4) WELD PROFILES 5) WELD SIZE 6) UNDERCUT 7) POROSITY	PP		AISC 360-10 TABLE NS 4-3, AWS D1.1	1705.2.1
YES	ARC STRIKES d.	PP			
YES	k-AREA e.	PP			
YES	REMOVED AND WELD TABS REMOVED f.	PP			
YES	g. REPAIR ACTIVITIES	PP			
YES	h. DOCUMENT ACCEPTANCE OR REJECTION OF WELD JOINT OR MEMBER	PP			

NOTES:

- QCI = FABRICATOR'S OR ERECTOR'S QUALITY CONTROL INSPECTOR RESPONSIBLE FOR WORK PERFORMED IS IN COMPLIANCE WITH THE SHOP DRAWINGS, ERECTION DRAWINGS, REFERENCE SPECIFICATIONS, CODES AND STANDARDS.
- QAI = THE OWNER'S APPROVED AGENCY'S QUALITY ASSURANCE INSPECTOR (SPECIAL INSPECTOR) RESPONSIBLE FOR INSPECTION OF FABRICATED ITEMS, INSPECTION OF THE ERECTED STEEL SYSTEM, REVIEW TEST REPORTS AND CERTIFICATIONS, ITEMS NOTED IN THE TABLE ABOVE, AND FURNISHES INSPECTIONS, REPORTS, AND NONDESTRUCTIVE TESTING (NDT) REPORTS.
- O = OBSERVE THESE ITEMS IN A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
- P = PERFORM THE TASK FOR EACH WELDED JOINT OR MEMBER.
- THE QAI IS NOT REQUIRED TO INSPECT FABRICATED ITEMS IF THE STEEL FABRICATOR IS DEEMED AN APPROVED FABRICATOR.
- WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH THE QCI AND QAI, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QAI SO THAT THE INSPECTION FUNCTION IS PERFORMED BY ONLY ONE PARTY.
- ALL FIELD WELDING, COMPLETE AND PARTIAL JOINT PENETRATION WELDS SHALL BE SUBJECTED TO NONDESTRUCTIVE TESTING (NDT) IN ACCORDANCE WITH AWS D1.1. ACCEPTANCE CRITERIA SHALL BE IN ACCORDANCE WITH THE AWS D1.1.
- ACCEPTABLE NONDESTRUCTIVE TESTING (NDT) METHODS AS PER THE AISC 360 SPECIFICATION ARE AS FOLLOWS:
a. ULTRASONIC TESTING (UT)
b. MAGNETIC PARTICLE TESTING (MT)
c. PENETRANT TESTING (PT)
d. RADIOGRAPHIC TESTING (RT)
- THE SPECIAL INSPECTOR SHALL BE RESPONSIBLE FOR DETERMINING THE APPROPRIATE NDT METHOD FOR EACH WELD.
- ALL NOT PERFORMED SHALL BE DOCUMENTED INTO A REPORT AND SHALL INCLUDE THE FOLLOWING:
a. LOCATION OF THE TESTED WELD
b. PIECE MARK
c. LOCATION OF THE PIECE

VERIFICATION AND INSPECTION OF STEEL FRAMING

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	SPECIAL INSPECTOR		REFERENCE STANDARD	IBC REFERENCE
		QCI	QAI		
YES	1. VERIFY FABRICATED STEEL IS IN COMPLIANCE WITH THE SHOP DRAWINGS	PO			
YES	2. VERIFY ERECTED STEEL IS IN COMPLIANCE WITH THE ERECTION DRAWINGS	PO			
YES	3. INSPECTION DURING PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS	-P		AISC 360-10 NS 7	1705.2.1
YES	4. VERIFY DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM AND THE EXTENT OR DEPTH OF EMBEDMENT INTO CONCRETE PRIOR TO PLACEMENT OF CONCRETE	-P			

NOTES:

- QCI = FABRICATOR'S OR ERECTOR'S QUALITY CONTROL INSPECTOR RESPONSIBLE FOR WORK PERFORMED IS IN COMPLIANCE WITH THE SHOP DRAWINGS, ERECTION DRAWINGS, REFERENCE SPECIFICATIONS, CODES AND STANDARDS.
- QAI = THE OWNER'S APPROVED AGENCY'S QUALITY ASSURANCE INSPECTOR (SPECIAL INSPECTOR) RESPONSIBLE FOR INSPECTION OF FABRICATED ITEMS, INSPECTION OF THE ERECTED STEEL SYSTEM, REVIEW TEST REPORTS AND CERTIFICATIONS, ITEMS NOTED IN THE TABLE ABOVE, AND FURNISHES INSPECTIONS, REPORTS, AND NONDESTRUCTIVE TESTING (NDT) REPORTS.
- O = OBSERVE THESE ITEMS IN A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
- P = PERFORM THE TASK FOR EACH STEEL ELEMENT.
- THE QAI IS NOT REQUIRED TO INSPECT FABRICATED ITEMS IF THE STEEL FABRICATOR IS DEEMED AN APPROVED FABRICATOR.
- WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH THE QCI AND QAI, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QAI SO THAT THE INSPECTION FUNCTION IS PERFORMED BY ONLY ONE PARTY.
- AS A MINIMUM, THE DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR RODS OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE SHALL BE VERIFIED PRIOR TO PLACEMENT OF CONCRETE.

VERIFICATION AND INSPECTION OF STRUCTURAL STEEL BOLTING

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	SPECIAL INSPECTOR		REFERENCE STANDARD	IBC REFERENCE
		QCI	QAI		
YES	1. INSPECTION TASK PRIOR TO BOLTING: a. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	OP			
YES	b. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	OO			
YES	c. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	OO		AISC 360-10 TABLE NS 6-1	1705.2.1
YES	d. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O		
YES	e. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	OO			
YES	f. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	PO			
YES	g. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	OO			
YES	2. INSPECTION TASK DURING BOLTING: a. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	OO			
YES	b. JOINT BROUGHT TO THE SNUG-TIGHT POSITION CONDITION PRIOR TO THE PRETENSIONING OPERATION	OO		AISC 360-10 TABLE NS 6-2	1705.2.1
YES	c. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	OO			
YES	d. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RSCS SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	OO			
YES	3. INSPECTION TASK AFTER BOLTING: a. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	PP		ASC 360-10 TABLE NS 6-1	1705.2.1

NOTES:

- QCI = FABRICATOR'S OR ERECTOR'S QUALITY CONTROL INSPECTOR RESPONSIBLE FOR WORK PERFORMED IS IN COMPLIANCE WITH THE SHOP DRAWINGS, ERECTION DRAWINGS, REFERENCE SPECIFICATIONS, CODES AND STANDARDS.
- QAI = THE OWNER'S APPROVED AGENCY'S QUALITY ASSURANCE INSPECTOR (SPECIAL INSPECTOR) RESPONSIBLE FOR INSPECTION OF FABRICATED ITEMS, INSPECTION OF THE ERECTED STEEL SYSTEM, REVIEW TEST REPORTS AND CERTIFICATIONS, ITEMS NOTED IN THE TABLE ABOVE, AND FURNISHES INSPECTIONS, REPORTS, AND NONDESTRUCTIVE TESTING (NDT) REPORTS.
- O = OBSERVE THESE ITEMS IN A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
- P = PERFORM THE TASK FOR EACH BOLTED CONNECTION.
- THE QAI IS NOT REQUIRED TO INSPECT FABRICATED ITEMS IF THE STEEL FABRICATOR IS DEEMED AN APPROVED FABRICATOR.
- WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH THE QCI AND QAI, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QAI SO THAT THE INSPECTION FUNCTION IS PERFORMED BY ONLY ONE PARTY.

VERIFICATION AND INSPECTION OF WIND-RESISTING COMPONENTS

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	INSPECTION FREQUENCY		REFERENCE STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
YES	1. ROOF CLADDING	-	X	-	
YES	2. WALL CLADDING	-	X	-	1705.10.3

NOTES:

- PERIODIC SPECIAL INSPECTION OF WIND-RESISTING COMPONENTS IS REQUIRED IF ONE OF THE FOLLOWING CRITERIA IS MET:
a. IN WIND EXPOSURE B, WHERE $V_{ult} \geq 120$ MPH
b. IN WIND EXPOSURE C OR D, WHERE $V_{ult} \geq 110$ MPH

VERIFICATION AND INSPECTION OF SOILS

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	INSPECTION FREQUENCY		REFERENCE STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
YES	1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	-	X	-	
YES	2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIALS	-	X	-	
YES	3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	-	X	-	1705.6
YES	4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	-	-	
YES	5. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIALS	-	X	-	

NOTES:

- SPECIAL INSPECTION AND TESTING PROCEDURES OF EXISTING SOIL CONDITIONS, EXCAVATION, FILL PLACEMENT, AND LOAD-BEARING REQUIREMENTS SHALL BE BASED ON THE APPROVED GEOTECHNICAL REPORT AND THE CONTRACT DOCUMENTS.

VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	INSPECTION FREQUENCY		REFERENCE STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
YES	1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT	-	X	AQ 318 3.5.1-3.7	1910.4
YES	2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 2b	-	-	AWS D14 AQ 318 3.5.2	-
YES	3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED	-	X	ACI 318 8.1.3, 21.2.8	1908.5, 1909.1
YES	4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDEN CONCRETE MEMBERS: a. SPECIAL INSPECTOR CERTIFIED ACI C918 ADHESIVE ANCHOR INSTALLER	X	-		
YES	b. ADHESIVE ANCHOR INSTALLATION REPORT INDICATING CONFORMANCE TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI)	X	-	ACI 318: APPENDIX D	1909.1
	c. INSTALLATION OF MECHANICAL ANCHORS	X	-		
	d. POST-INSTALLED ANCHOR INSTALLERS CERTIFICATIONS AVAILABLE	X	-		
	5. VERIFYING USE OF REQUIRED DESIGN MIX	-	X	ACI 318 CH 4, 5.2-5.4	1904.2, 1910.2, 1911.3
YES	6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	-	ASTM C172, ASTM C91, ACI 318 5.5.5.8	1910.10
YES	7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	-	ACI 318 5.9, 5.10	1910.6, 1910.7, 1910.8
YES	8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	-	X	ACI 318 5.11-5.13	1910.9
NO	9. INSPECTION OF PRESTRESSED CONCRETE: a. APPLICATION OF PRESTRESSING FORCES b. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC FORCE-RESISTING SYSTEM	X	-	ACI 318 18.20, ACI 318 18.8.4	-
YES	10. ERECTION OF PRECAST CONCRETE MEMBERS	-	X	ACI 318 CH 18	-
NO	11. VERIFY EXCAVATION INTO CONCRETE STRENGTH PRIOR TO SPRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	-	X	AQ 318 6.2	-
YES	12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	-	X	AQ 318 6.1.1	-

VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

SPECIAL INSPECTION	VERIFICATION AND INSPECTION TASK	SPECIAL INSPECTOR		REFERENCE STANDARD	IBC REFERENCE
		QCI	QAI		
YES	1. INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT: a. VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS	PP		SDQ 040C TABLE 1.1	1705.2.2
YES	b. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND ACCESSORIES DECK	P	P		
YES	2. INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT: a. VERIFY COMPLIANCE OF DECK AND ALL ACCESSORIES INSTALLATION WITH CONSTRUCTION DECK DOCUMENTS	P	P	SDQ 040C TABLE 1.2	1705.2.2
YES	b. VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS	-	P		
YES	c. DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES	P	P		
YES	3. INSPECTION OR EXECUTION TASKS PRIOR TO WELDING: a. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE b. MANUFACTURER CERTIFICATIONS FOR CONSUMABLES AVAILABLE WELDING c. MATERIAL IDENTIFICATION (TYPE/GRADE) d. CHECK WELDING EQUIPMENT	O	O	SDQ 040C TABLE 1.3	1705.2.2
YES	4. INSPECTION OR EXECUTION TASKS DURING WELDING: a. USE OF QUALIFIED WELDERS b. CONTROL AND HANDLING OF WELDING CONSUMABLES c. ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE) d. WPS FOLLOWED	O	O	SDQ 040C TABLE 1.4	1705.2.2
YES	5. INSPECTION OR EXECUTION TASKS AFTER WELDING: a. VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDE LAP AND PERIMETER WELDS b. WELDS MEET VISUAL ACCEPTANCE CRITERIA c. VERIFY REPAIR ACTIVITIES d. DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	P	P	SDQ 040C TABLE 1.5	1705.2.2
YES	6. INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING: a. MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS b. PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION c. PROPER STORAGE FOR MECHANICAL FASTENERS	O	O	SDQ 040C TABLE 1.6	1705.2.2
YES	7. INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING: a. FASTENERS ARE POSITIONED AS REQUIRED b. FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	O	O	SDQ 040C TABLE 1.7	1705.2.2
YES	8. INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING: a. CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS b. CHECK SPACING, TYPE, AND INSTALLATION OF SIDE-LAP FASTENERS	P	P	SDQ 040C TABLE 1.8	1705.2.2
YES	c. CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS d. VERIFY REPAIR ACTIVITIES e. DOCUMENT ACCEPTANCE OR REJECTION OF FASTENERS MECHANICAL	P	P		

NOTES:

- QCI= INSTALLER'S QUALITY CONTROL INSPECTOR RESPONSIBLE FOR CONFIRMING THAT THE MATERIAL PROVIDED AND WORK PERFORMED MEET THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS, INSTALLATION DRAWINGS, SHOP DRAWINGS, DESIGN DOCUMENTS, AND REFERENCE STANDARDS.
- QAI= THE OWNER'S APPROVED AGENCY'S QUALITY ASSURANCE INSPECTOR (SPECIAL INSPECTOR) RESPONSIBLE FOR INSPECTION OF MATERIALS, INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS AND CONFIRM COMPLIANCE WITH CONSTRUCTION DOCUMENTS AND REFERENCE STANDARDS.
- O= OBSERVE THESE ITEMS ON AN INTERMITTENT BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
- P= PERFORM THESE TASKS PRIOR TO FINAL ACCEPTANCE FOR EACH ITEM OR ELEMENT.
- WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH THE QCI AND QAI, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QAI SO THAT THE INSPECTION FUNCTION IS PERFORMED BY ONLY ONE PARTY.

PRE-MANUFACTURED SUPERSTRUCTURE :

- DESIGN CRITERIA
INTERNATIONAL BUILDING CODE (IBC) 2021 EDITION
ASCI 58
BUILDING CODE FOR THE CITY OF CON EDINBURG, TEXAS
MAXIMUM ALLOWABLE HORIZONTAL DRIFT OF STRUCTURE = H/400
WHERE H = MEAN HEIGHT OF STRUCTURE
DESIGN WIND SPEED = 105 MPH, EXPOSURE "C"
MINIMUM COLLATERAL LOAD = 10 PSF PLUS ROOF TOP UNITS
- A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE OF TEXAS SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PREFABRICATED METAL BUILDING MEMBERS AND THEIR CONNECTIONS. THIS WORK SHALL ALSO INCLUDE ALL MEMBERS AND BRACES REQUIRED TO BRACE MASONRY WALLS.
- ALL DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER AND SHALL BE SUBMITTED FOR RECORD PURPOSES UPON REQUEST.
- THE SUPPLIER SHALL SUBMIT A SEALED LETTER STATING DESIGN CRITERIA FOR ALL WORK AND CERTIFYING THAT ALL DESIGNS ARE IN COMPLIANCE WITH APPLICABLE CODES.
- ALL ANCHOR BOLTS SHALL BE DESIGNED BY THE METAL BUILDING SUPPLIER AND SUPPLIED BY THE CONTRACTOR. ALL ANCHOR BOLTS SHALL CONFORM TO ASTM A36. SUBMIT MILL CERTIFICATES FOR ALL BOLTS.
- ALL BOLTS FOR STRUCTURAL CONNECTIONS OF BEAMS, GIRDERS, PURLINS, COLUMNS, BRACES, ETC. SHALL BE OF AMERICAN ORIGIN. NO EXCEPTIONS. SUBMIT MILL CERTIFICATES FOR ALL BOLTS.
- ALL A325 BOLTS SHALL BE FULLY TENSIONED USING THE TURN OF THE NUT METHOD.
- PROVIDE PINNED BASE CONNECTION FROM COLUMN TO FOUNDATION.
- ALL BOLTS IN THE METAL BUILDING SHALL BE INSPECTED BY THE TESTING LAB TO CONFIRM PROPER TENSION. THE TESTING LAB SHALL INSPECT EACH AND EVERY BOLT ON THE PROJECT USING A TORQUE WRENCH.
- SUBMIT WRITTEN REPORTS TO THE ARCHITECT.
THE MANUFACTURER'S ENGINEER MUST PERFORM SITE OBSERVATIONS DURING THE COURSE OF THE METAL BUILDING CONSTRUCTION TO CONFIRM THAT THE WORK IS PROGRESSING IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SHOP DRAWINGS. THE CONTRACTOR SHALL MAKE ALL THE CONTRACTOR SHALL MAKE ALL CORRECTIVE WORK REQUIRED TO MAKE ALL NON-COMPLIANT ITEMS ACCEPTABLE TO THE ENGINEER PRIOR TO CONTINUING WITH ANY FRESH WORK. AT THE END OF THE JOB, THE MANUFACTURER'S REGISTERED TEXAS P.E. MUST SUBMIT A SEALED LETTER TO THE OWNER AND ARCHITECT STATING THAT THE DESIGN AND CONSTRUCTION OF THE METAL BUILDING IS IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND ALL APPLICABLE CODES.
- THIS FOUNDATION HAS BEEN DESIGNED USING ASSUMED REACTIONS FROM THE PRE-ENGINEERED BUILDING COMPONENTS AND IS FOR BID PURPOSES ONLY. THE CONTRACTOR SHALL SUBMIT BASE CONNECTION DETAILS (SIZE AND THICKNESS BASE PLATE AND DIAMETER AND LENGTH ANCHOR BOLTS) AND REACTIONS OF THE BUILDING FRAMES TO THE ENGINEER PRIOR TO CONSTRUCTION SO THE DESIGN ASSUMPTIONS CAN BE VERIFIED. DEPTH OF ANCHOR BOLTS SHALL BE SUFFICIENT.
- ANY ADDITIONAL COST OF FOUNDATION WORK REQUIRED BY REVISIONS OF THE FOUNDATION DESIGN AFTER PRE-ENGINEERED BUILDING REACTIONS ARE SUBMITTED SHALL BE BY OTHERS.



TEXAS ARCHITECT
FIRM No: BR4247
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SEAL:

ECISD HIGH
SCHOOL
ATHLETIC
MULTI-USE
BUILDING
25-74

J.
ECONOMEDES
HIGH SCHOOL

1414 N Alamo
Rd, Edinburg,
TX 78542

CLIENT:

EDINBURG CISD

REVISION:

No.	Description	Date

PROJECT #: 25-030102

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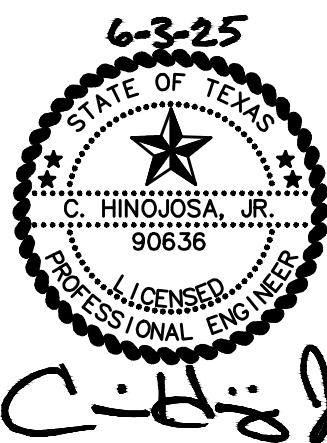
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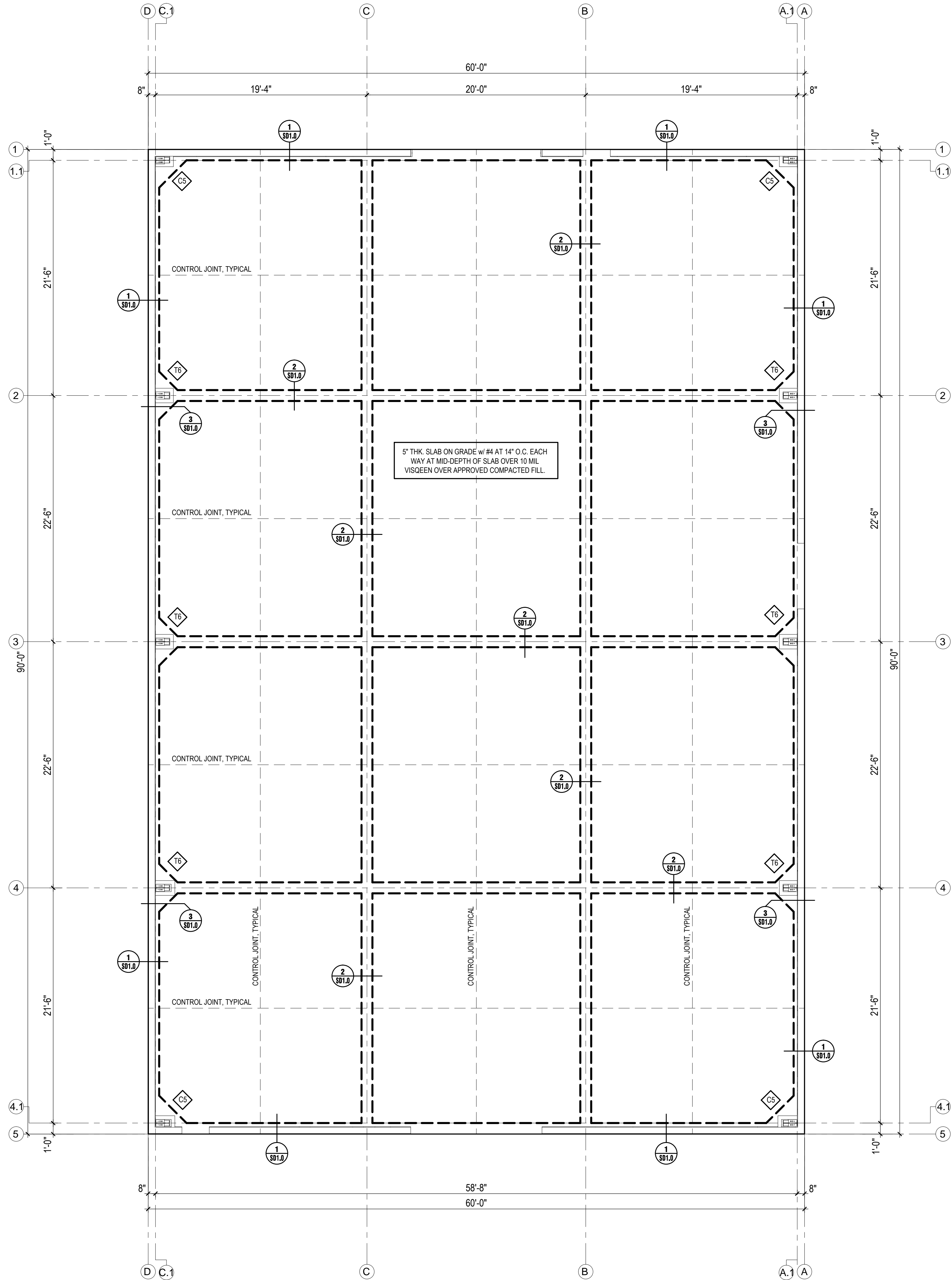
GENERAL NOTES

ADDENDUM #2

S1.2



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- FOUNDATION NOTES:**
- SEE SHEET S1.0, S1.1, S1.2 & S1.3 FOR GENERAL NOTES.
 - FOR TYPICAL DETAILS SEE SHEETS SD1.0 & SD1.1
 - CONTRACTOR/SUBCONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING ANY WORK. THE CONTRACTOR AND OR SUBCONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT AND ENGINEER BEFORE THE WORK HAS BEGUN.
 - REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DIMENSIONS.
 - REFER TO ARCHITECTURAL PLANS FOR FLOOR DRAIN LOCATIONS.
 - SLOPE SLAB TO DRAINS, SEE ARCHITECTURAL PLANS FOR SLOPE.
 - REFER TO ARCHITECTURAL PLANS FOR FLOOR FINISHES. ENGINEER IS NOT RESPONSIBLE FOR TYPE OF FLOOR FINISHES.
 - PROVIDE SLAB CONTRACTION JOINTS PER TYPICAL DETAIL.
 - THE TESTING LABORATORY SHALL BE THE OWNER REPRESENTATIVE TO CONTROL THE PLACEMENT OF COMPACTED FILL. THE TESTING LABORATORY SHALL APPROVE THE SUBGRADE PREPARATION, THE FILL MATERIALS, THE METHOD OF PLACEMENT AND COMPACTION, AND SHALL INDICATE ON THERE REPORT THE ELEVATION OF THE COMPACTED SUBGRADE.
 - ALL EARTHWORK AND GRADING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERING STUDY. THE STRINGENT REQUIREMENTS BETWEEN THESE SUBGRADE NOTES AND GEOTECHNICAL ENGINEERING STUDY SHALL GOVERN AND EXECUTED BY THE CONTRACTOR.
 - IN THE EVENT FOUNDATION EXCAVATIONS ARE CARRIED TO A DEPTH GREATER THAN REQUIRED, THE ADDITIONAL DEPTH SHALL BE FILLED WITH THE SAME CONCRETE AS THAT USED FOR FOOTING AT NO ADDITIONAL EXPENSE TO THE OWNER. NO UNCONTROLLED FILL WILL BE PERMITTED.
 - THE FOOTING EXCAVATIONS SHALL BE KEPT FREE FROM LOOSE MATERIAL AND STANDING WATER.
 - THE FOUNDATION EXCAVATIONS SHOULD BE OBSERVED BY THE TESTING LABORATORY PRIOR TO STEEL OR CONCRETE PLACEMENT TO ASSESS THAT THE FOUNDATION MATERIALS ARE CAPABLE OF SUPPORTING THE DESIGN LOADS AND ARE CONSISTENT WITH THE MATERIALS DISCUSSED IN THE STUDY. THIS IS ESPECIALLY IMPORTANT TO IDENTIFY THE ACCEPTABILITY OF THE SUBGRADE OR FILL MATERIAL UNDER THE FOOTING. SOFT OR LOOSE SOIL ZONES ENCOUNTERED AT THE BOTTOM OF THE FOOTING OR BEAM EXCAVATIONS SHOULD BE EXCAVATIONS SHOULD BE REMOVED TO THE LEVEL OF COMPETENT SOIL AS DIRECTED BY THE TESTING LABORATORY. CAVITIES FORMED AS A RESULT OF EXCAVATION OF SOFT OR LOOSE SOIL ZONES SHOULD BE BACKFILLED WITH LEAN CONCRETE OR SELECT FILL AS DETERMINED BY THE TESTING LABORATORY.
 - CARE SHOULD BE TAKEN TO SHAPE THE BUILDING AREAS SUCH THAT WATER WILL NOT POND AROUND THE STRUCTURE DURING CONSTRUCTION AND CAUSE THE NEAR SURFACE CLAYS TO SWELL. THE PROPOSED STRUCTURE SHALL BE ISOLATED FROM ANY MOISTURE SOURCE WHICH MIGHT ALSO CAUSE SWELLING OF THE CLAYS AFTER COMPLETION OF THE CONSTRUCTION.
 - WHEN THE STRUCTURE IS COMPLETE, THE GROUND SURFACE SHOULD SLOPE AWAY FROM THE STRUCTURE AND DOWN SPOUTS SHOULD CARRY RUNOFF WATER SEVERAL FEET FROM THE BUILDING, PREFERABLY INTO PAVED AREAS OR SEWERS, BEFORE DISCHARGING.
 - DO NOT PLANT, OR LEAVE IN PLACE, DEEP ROOTED TREES WITHIN CLOSE PROXIMITY TO THE PERIMETER OF THE STRUCTURE. DEEP ROOTED TREES HAVE POTENTIAL TO REMOVE MOISTURE FROM BENEATH THE BUILDING IF PLANTED CLOSE ENOUGH TO ALLOW THE ROOT BULB EXTEND NEAR OR BENEATH THE BUILDING.
 - AIR CONDITIONING CONDENSER DRAIN LINES TO DISCHARGE WATER A MINIMUM OF 5 FEET FROM THE PERIMETER OF THE STRUCTURE. THE DISCHARGE AREA SHALL HAVE SUFFICIENT SLOPE AWAY FROM THE STRUCTURE TO PREVENT STANDING WATER.
 - THE FINAL ONE (1) FOOT OF FILL OUTSIDE THE BUILDING AREA SHOULD CONSIST OF A COHESIVE CLAYEY (CL) SOIL. FILL CAN NOT BE ALLOWED TO DRY OUT DURING OR AFTER COMPACTION.
 - NOTE THAT SOME LEVELS OF RISK ARE ASSOCIATED WITH ALL FOUNDATION SYSTEMS AND THERE IS NO SUCH THING AS A "ZERO RISK" FOUNDATION. IT ALSO SHOULD BE NOTED THAT THE FOUNDATION PROVIDED IS NOT DESIGNED TO RESIST SOIL MOVEMENT AS A RESULT OF SEWER/PLUMBING LEAKS, EXCESSIVE IRRIGATION, NON UNIFORM IRRIGATION, POOR DRAINAGE, AND WATER PONDING NEAR THE FOUNDATION SYSTEM.
 - CONSTRUCTION FOLLOWING WET WEATHER PERIODS WILL LIKELY ENCOUNTER DIFFICULTIES DUE TO THE WET OR SOFT SURFACE SOILS BECOMING A GENERAL HINDRANCE TO EQUIPMENT DUE TO RUTTING AND PUMPING OF THE SOIL SURFACE. IF THE SUBGRADE CANNOT BE ADEQUATELY COMPACTED TO MINIMUM DENSITIES AS DESCRIBED ABOVE, ONE OF THE FOLLING MEASURES WILL BE REQUIRED:
a) REMOVAL AND REPLACEMENT WITH SELECT FILL
b) CHEMICAL TREATMENT OF THE SOIL TO DRY SOIL AND INCREASE THE STABILITY OF THE SUBGRADE
c) DRYING BY NATURAL MEANS.
 - ALL FOOTINGS TO HAVE #5s AT 12" O.C. EACH WAY TOP AND BOTTOM REINFORCING.
 - FOLLOWING ARE THE SIZES OF THE REQUIRED FOOTINGS:
C5 - INDICATES A 5'-6" x 5'-6" x 3'-0" DEEP CEE FOOTING
T6 - INDICATES A 6'-6" x 6'-6" x 3'-0" DEEP TEE FOOTING

SLAB ON GRADE	
THICKNESS	5 INCHES
REINFORCING (EACH WAY)	#4 AT 14" O.C.
REINFORCING LOCATION	MID DEPTH
VISQUEEN	10 MIL
CONCRETE CHAIRS (NOT PLASTIC CHAIRS ALLOWED)	3'-0" O.C. EACH WAY

1 FOUNDATION PLAN
SCALE: 3/16"=1'-0"

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FIRM No: BR4247
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SEAL:

ECISD HIGH SCHOOL
ATHLETIC BUILDING
MULTI-USE BUILDING
25-74

J. ECONOMEDES
HIGH SCHOOL

1414 N Alamo
Rd, Edinburg,
TX 78542

CLIENT:
EDINBURG CISD

REVISION:

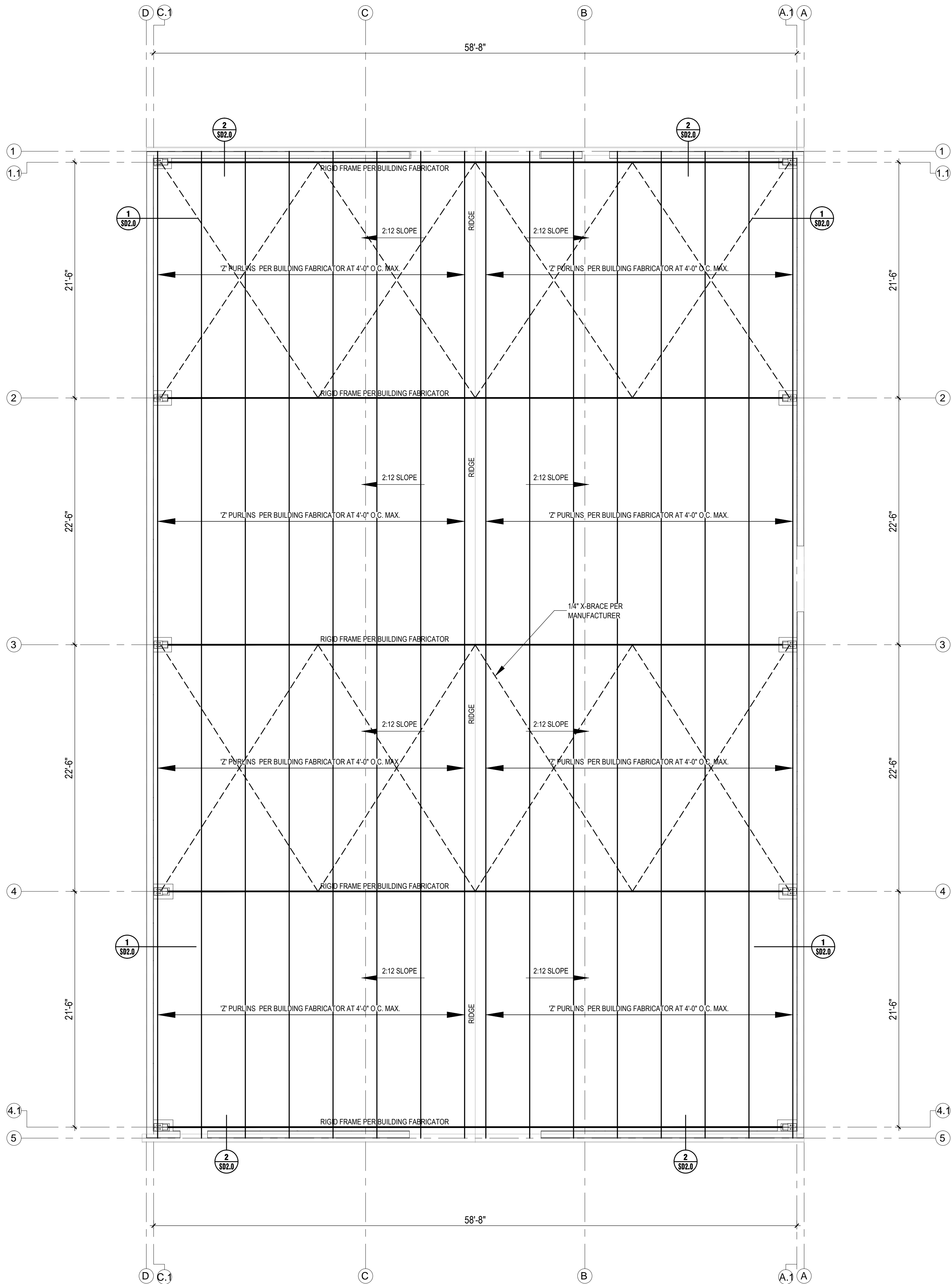
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PROJECT #: 25-030102
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DATE: 5/14/25

FOUNDATION PLAN

ADDENDUM #2

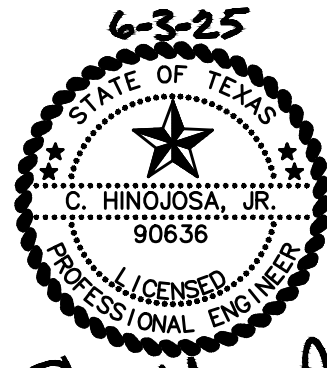
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METAL BUILDING NOTES:

1. THE DESIGN AND CONSTRUCTION OF THE METAL BUILDING IS THE RESPONSIBILITY OF THE SUPPLIER. THE PLAN SHOWN IS SCHEMATIC ONLY.
2. VERIFY SIZE AND LOCATION OF ALL SUPPORTED ITEMS WITH MANUFACTURER AND ARCH'L DRAWINGS. PRIOR TO FABRICATING STEEL, PROVIDE ALL FRAMING INCLUDING SUB PURLINS AND ROD HANGERS BETWEEN '2\"/>

1 ROOF FRAMING PLAN
SCALE: 3/16\"/>



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TBPE FIRM No. F-8719
701 S. 15th STREET McALLEN, TX. 78501
(956) 687-5560



TEXAS ARCHITECT
FIRM No: BR4247
WWW.CG5ARCHITECT.COM

SEAL:

ECISD HIGH
SCHOOL
ATHLETIC
MULTI-USE
BUILDING
25-74

J.
ECONOMEDES
HIGH SCHOOL

1414 N Alamo
Rd, Edinburg,
TX 78542

CLIENT:
EDINBURG CISD

REVISION:		
No.	Description	Date

PROJECT #: 25-030102
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ROOF
FRAMING
PLAN

ADDENDUM #2

S3.0



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ALTERNATE
ROOF
FRAMING
PLAN

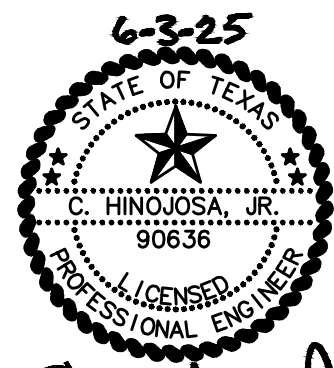
ADDENDUM #2

S3.1

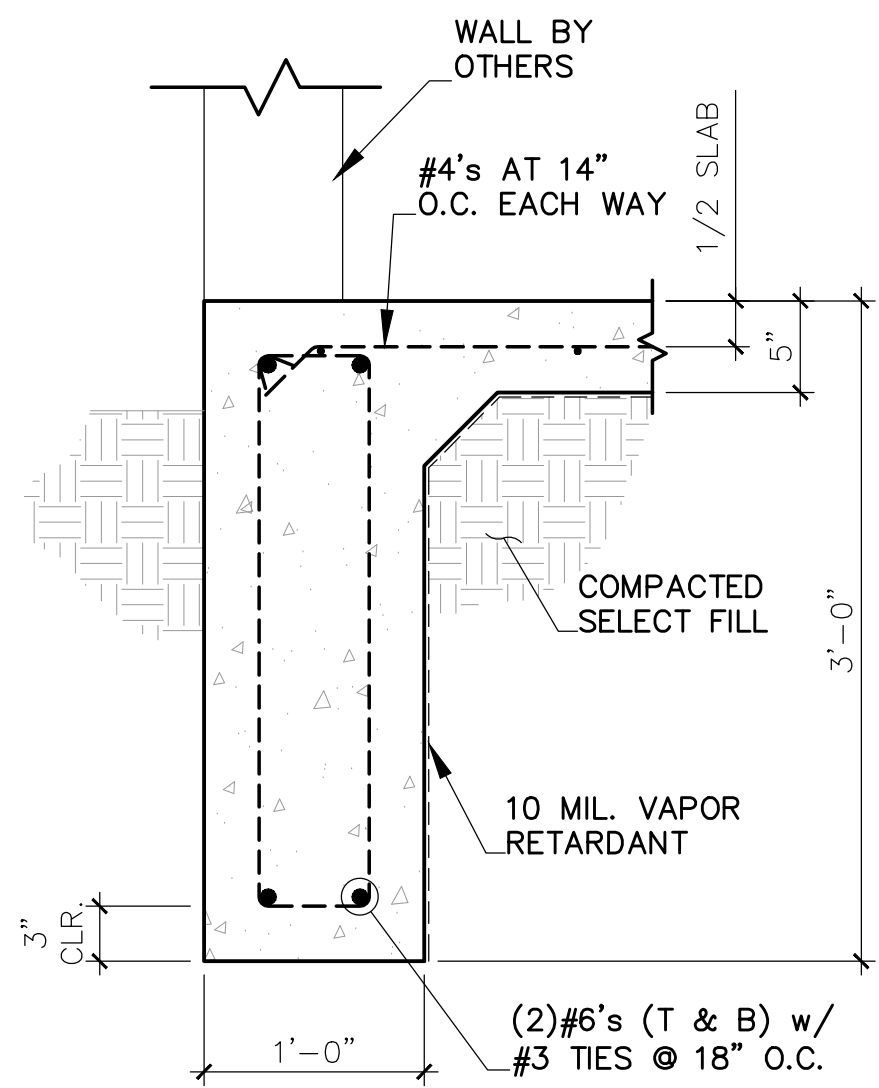
METAL BUILDING NOTES:

1. THE DESIGN AND CONSTRUCTION OF THE METAL BUILDING IS THE RESPONSIBILITY OF THE SUPPLIER. THE PLAN SHOWN IS SCHEMATIC ONLY.
2. VERIFY SIZE AND LOCATION OF ALL SUPPORTED ITEMS WITH MANUFACTURER AND ARCH'L DRAWINGS. PRIOR TO FABRICATING STEEL. PROVIDE ALL FRAMING INCLUDING SUB PURLINS AND ROD HANGERS BETWEEN "Z" PURLINS AS REQ'D.
3. THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION AND NUMBER OF MECH'L UNITS SUPPORTED BY THE METAL BUILDING STRUCTURE PRIOR TO ORDERING THE METAL BUILDING. SUPPORT FRAMING SHALL BE PROVIDED FOR ALL UNITS WHETHER THEY ARE SHOWN ON THIS DRAWING OR NOT.

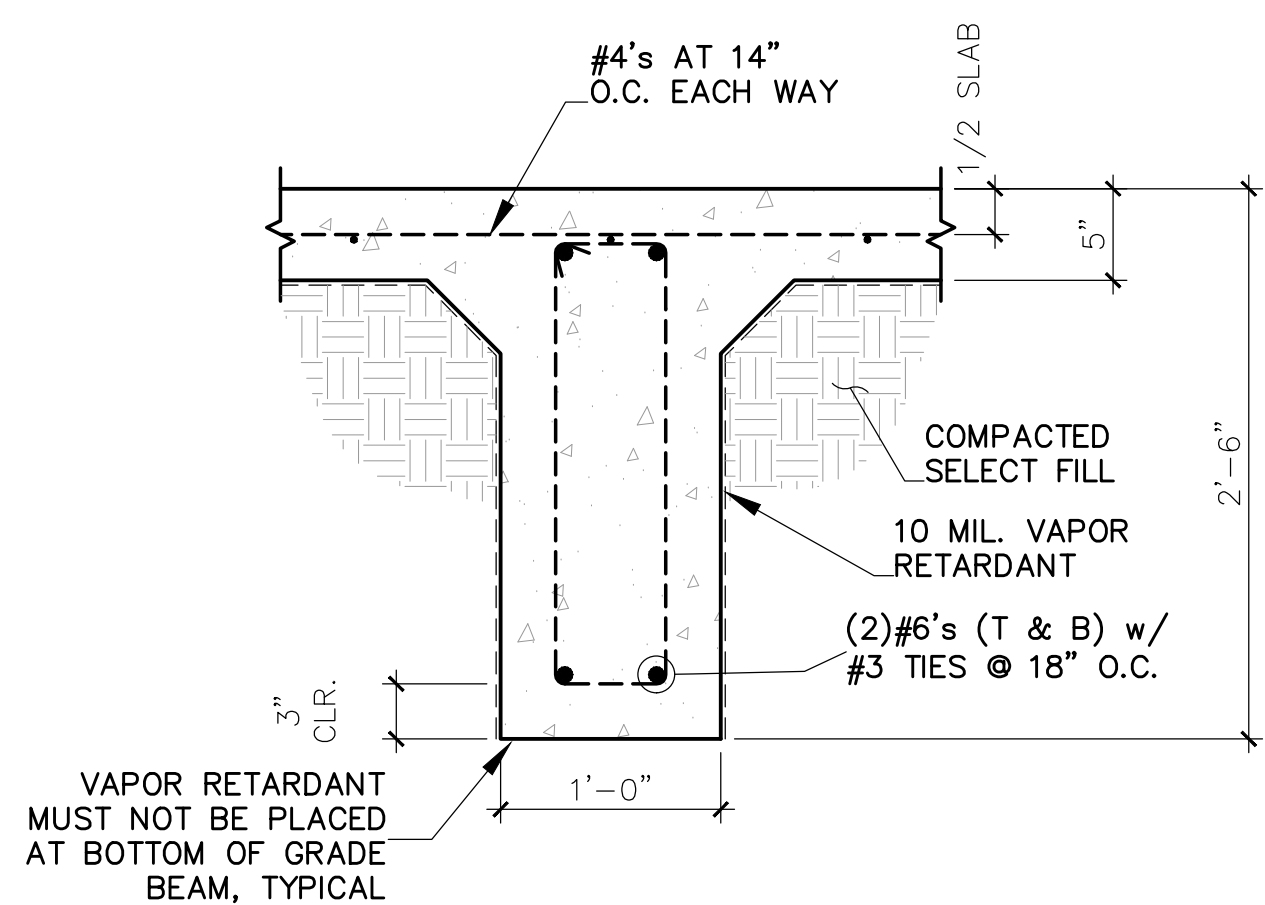
1 ALTERNATE
ROOF FRAMING PLAN
SCALE: 3/16"=1'-0"



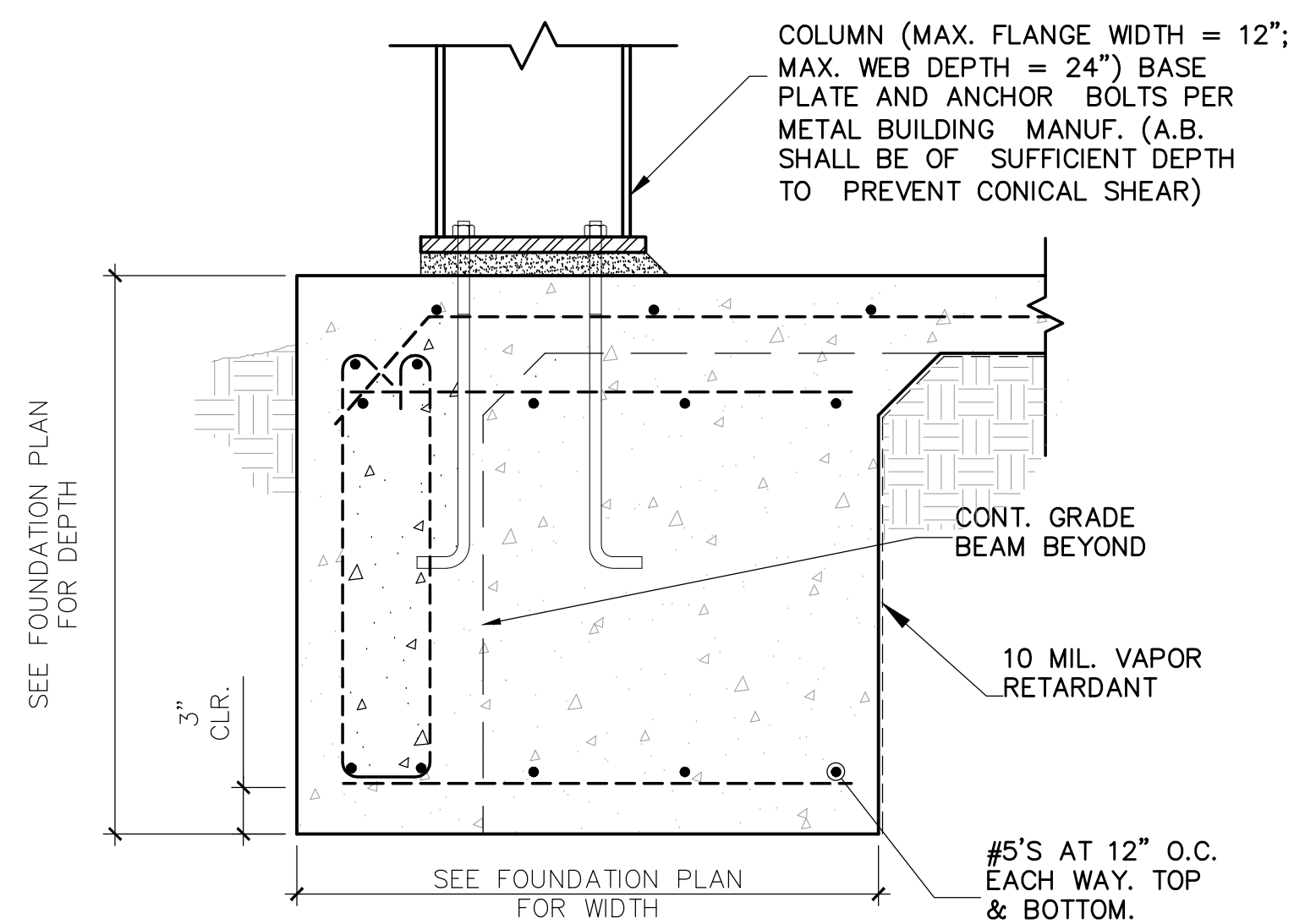
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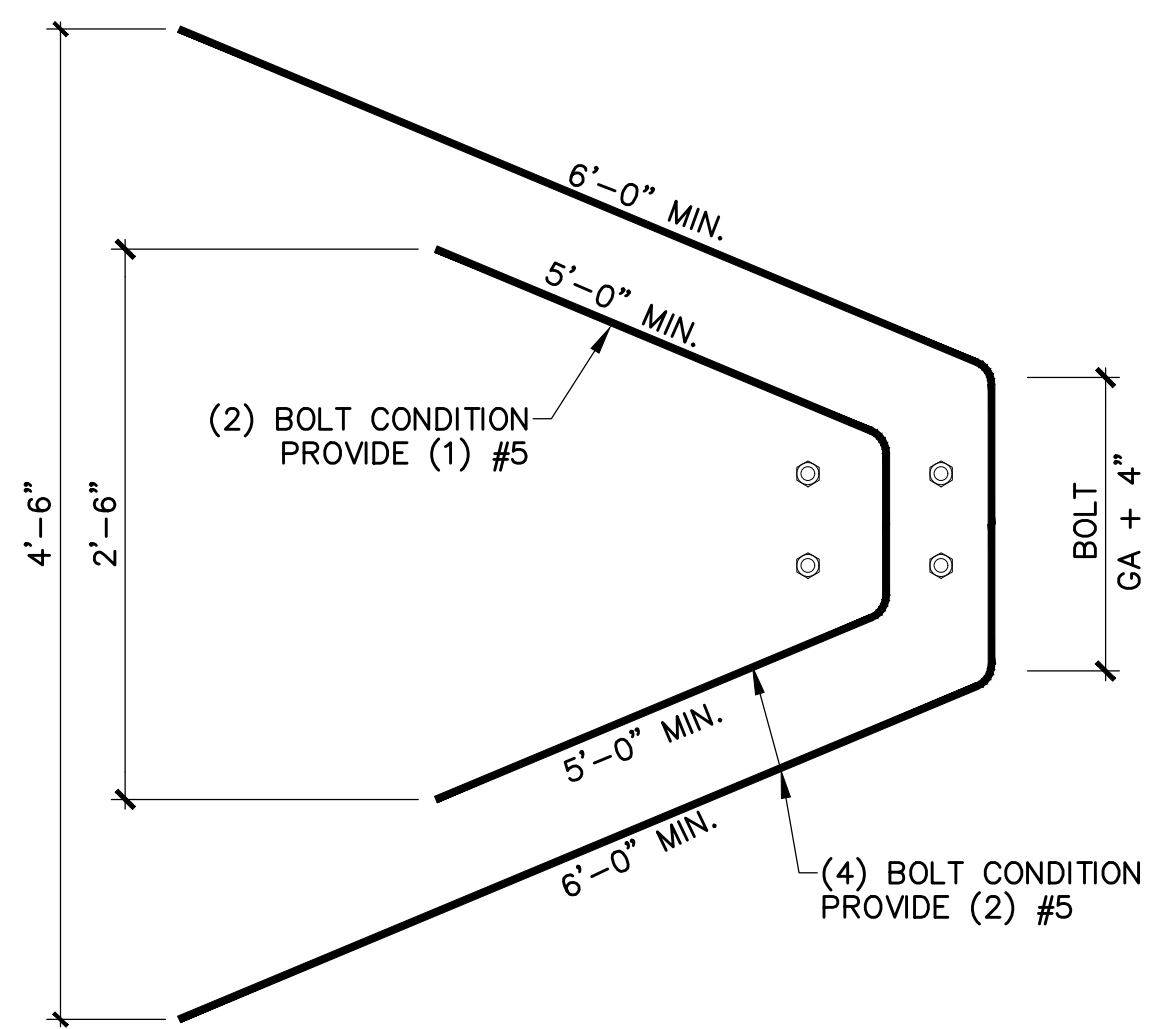
1 EXTERIOR GRADE BEAM
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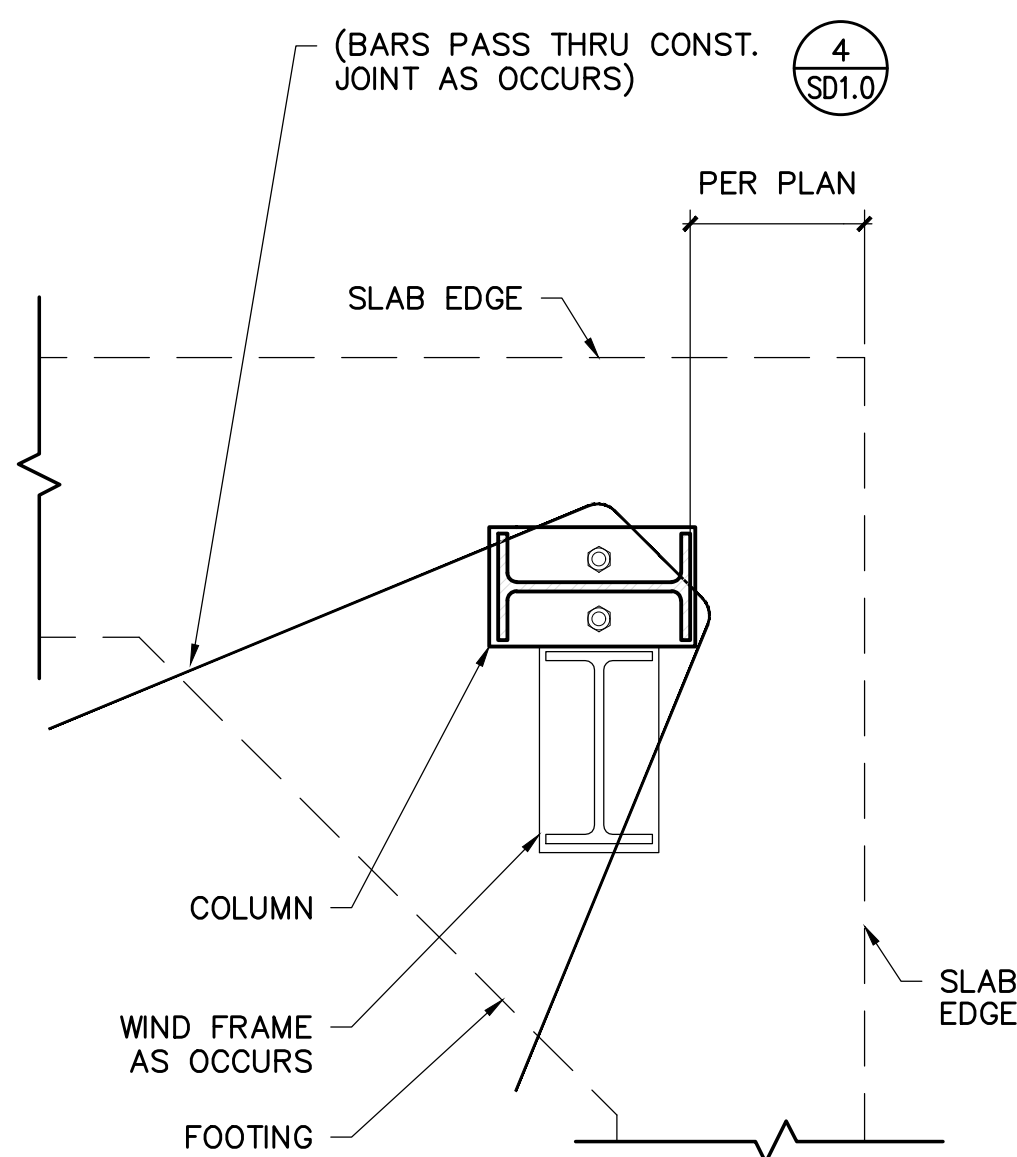
2 INTERIOR GRADE BEAM
SCALE: NOT TO SCALE



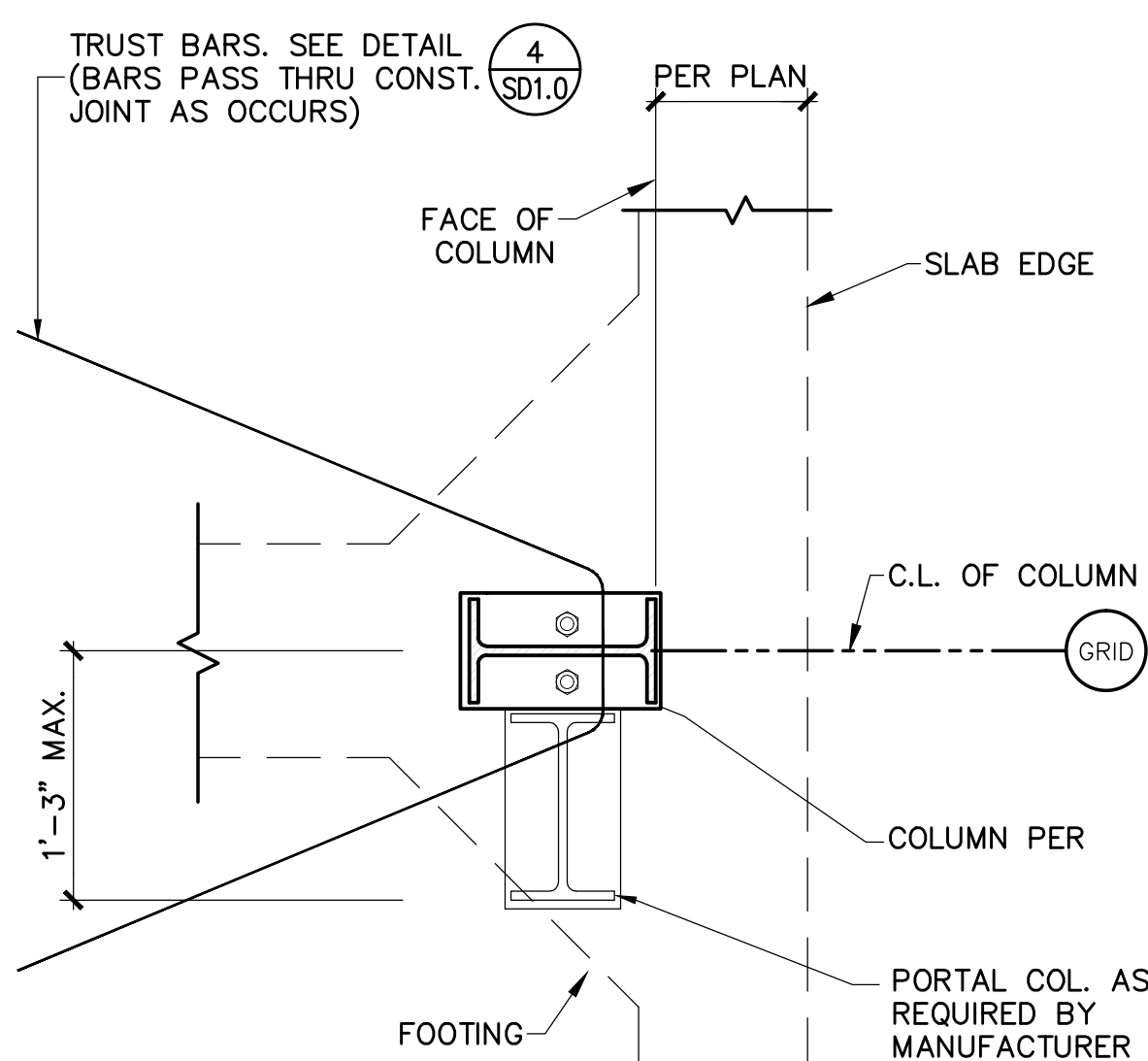
3 FOOTING AT COLUMN
SCALE: NOT TO SCALE



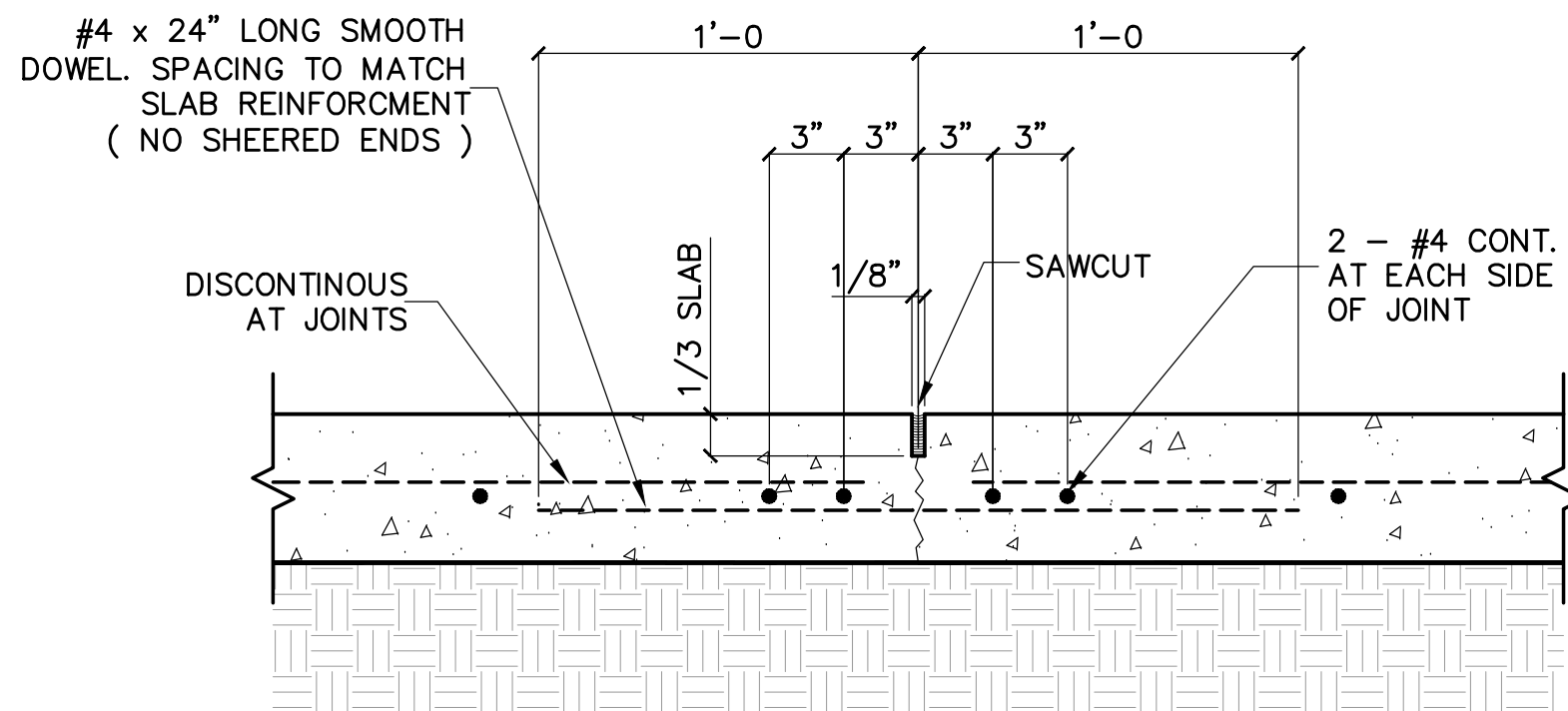
4 PLAN VIEW, TRUST BARS
SCALE: NOT TO SCALE



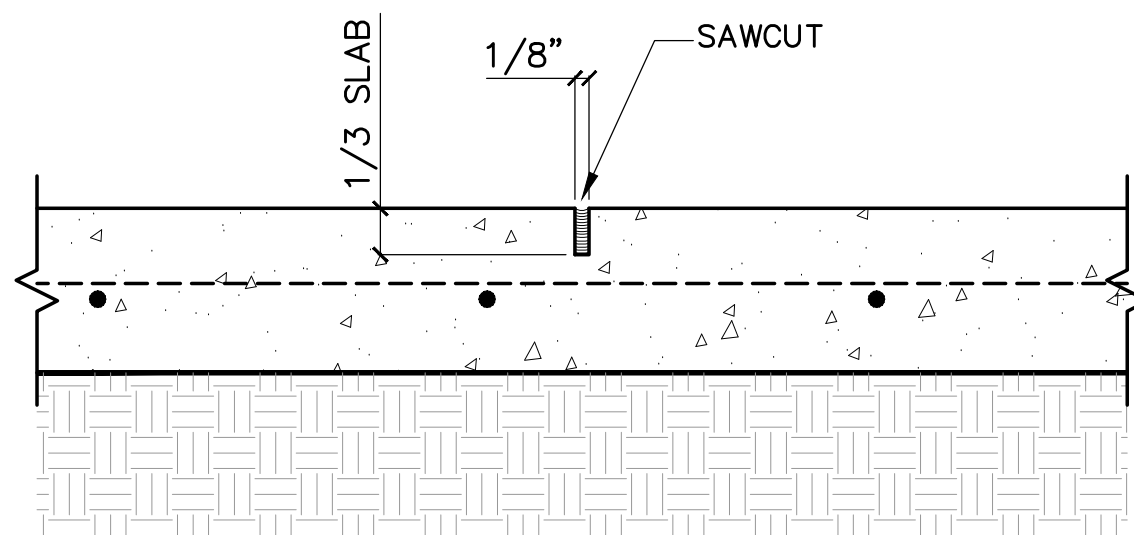
5 PLAN VIEW
SCALE: NOT TO SCALE



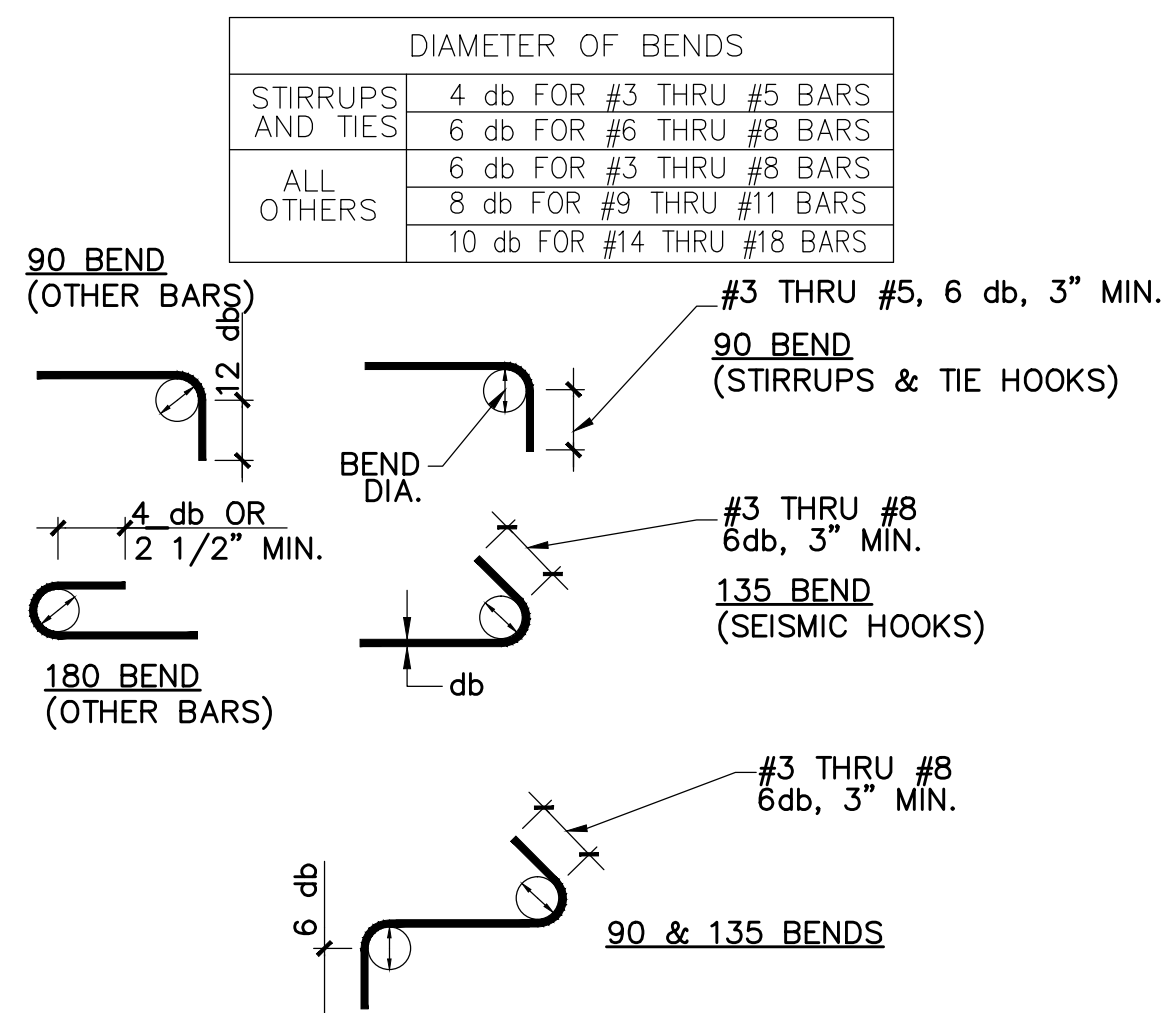
6 PLAN VIEW
SCALE: NOT TO SCALE



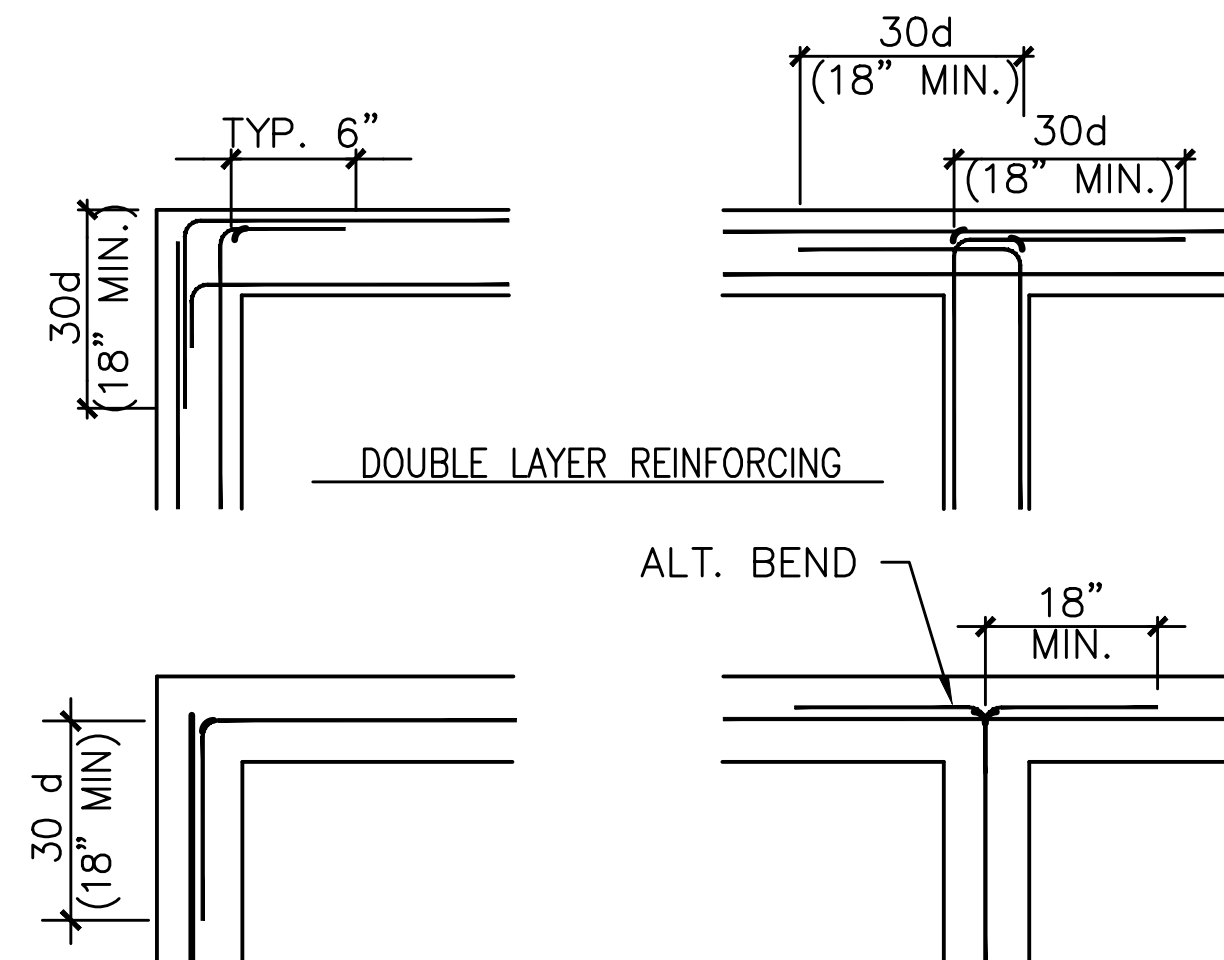
7 CONSTRUCTION / CONTRACTION JOINT
SCALE: NOT TO SCALE



8 CONTROL JOINT
SCALE: NOT TO SCALE



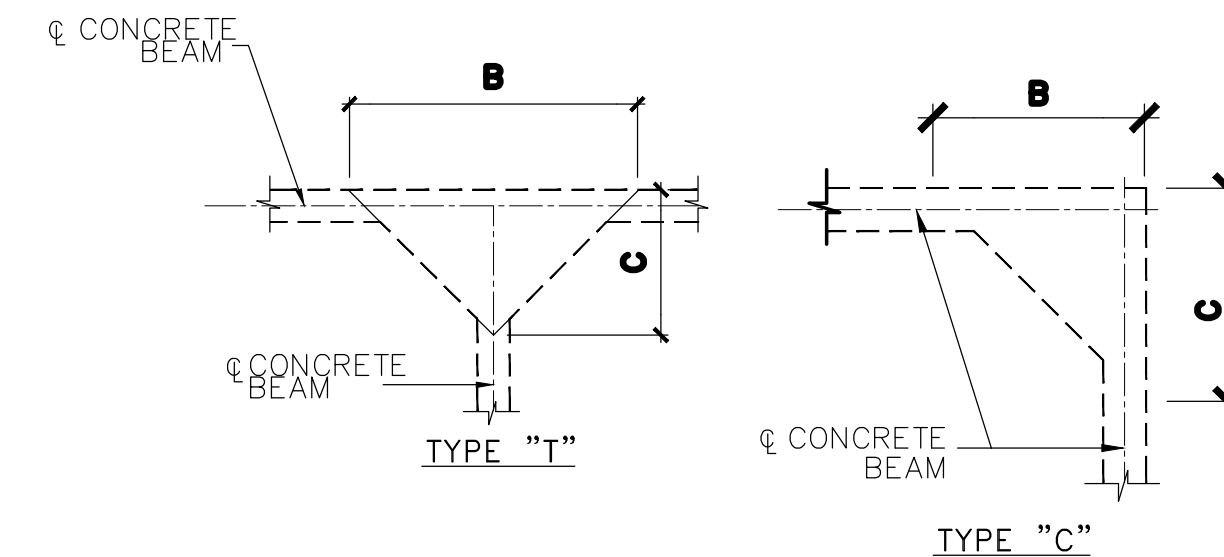
9 STANDARD HOOKS
SCALE: NOT TO SCALE



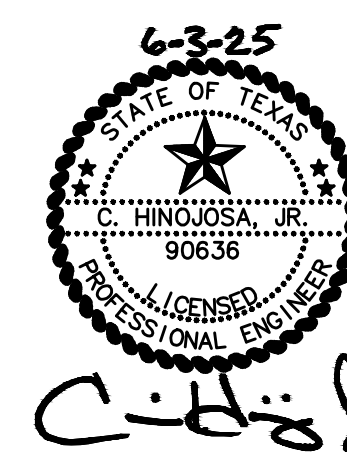
10 TYP. REINF. @ INT. OF CONC. FTG'S.
SCALE: NOT TO SCALE

FOOTING SCHEDULE					
TYPE	A	B	C	D	REINFORCING
C5		5'-6"	5'-6"	3'-0"	#5'S @ 12" O.C. E.W. TOP & BOT.
T6		6'-6"	6'-6"	3'-0"	#5'S @ 12" O.C. E.W. TOP & BOT.

- NOTES: 1. D = FOOTING DEPTH BELOW FINISH FLOOR
2. FOOTING DIMENSIONS ARE FOR BIDDING PURPOSES ONLY. ACTUAL DIMENSIONS MAY VARY.
3. PROVIDE UNIT PRICES (ON A CUBIC YARD BASIS) FOR REINFORCED (#6'S @ 8" OC EW TOP & BOT.) WIDENED BEAM CONCRETE FOOTINGS



11 FOOTING AT COLUMN
SCALE: NOT TO SCALE



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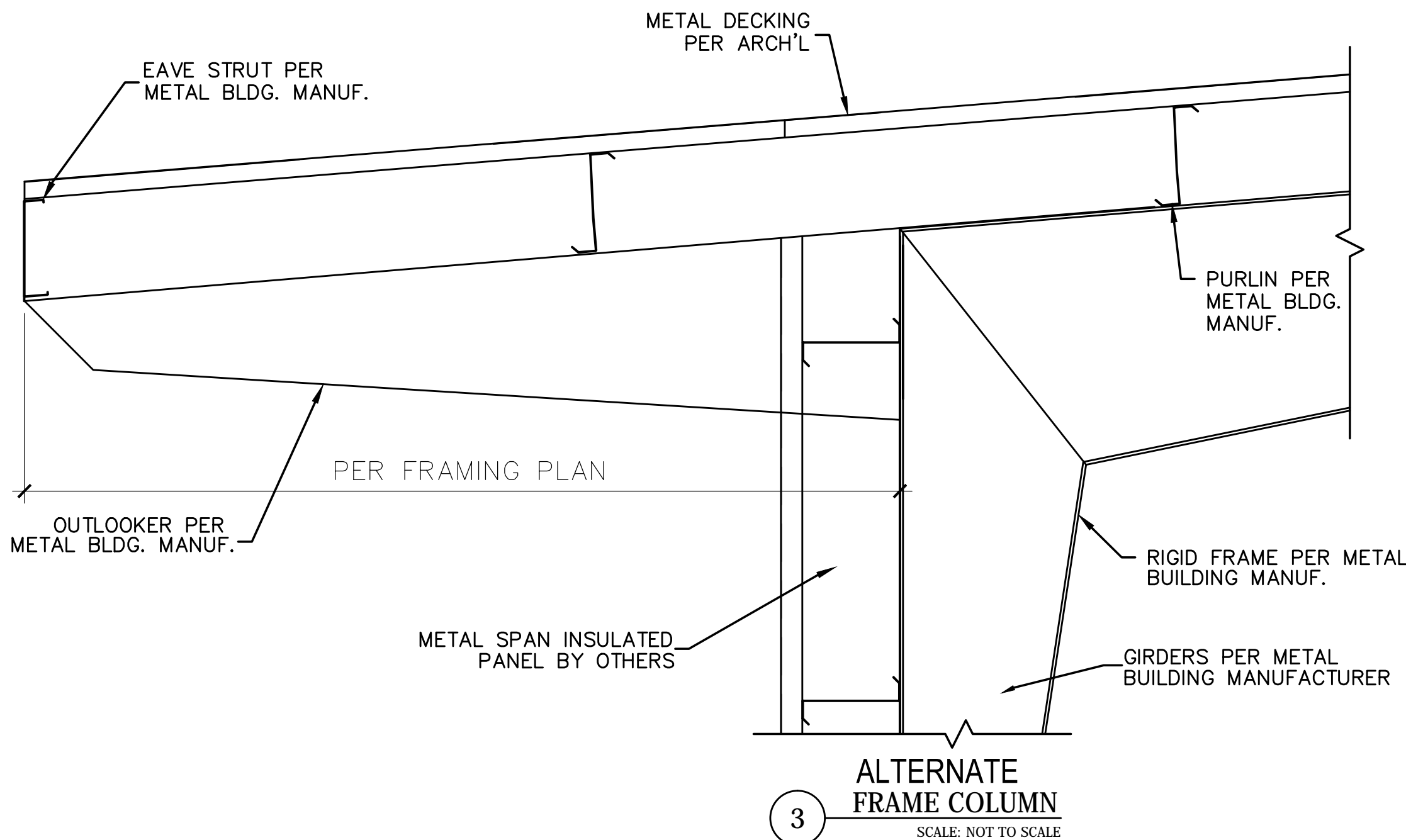
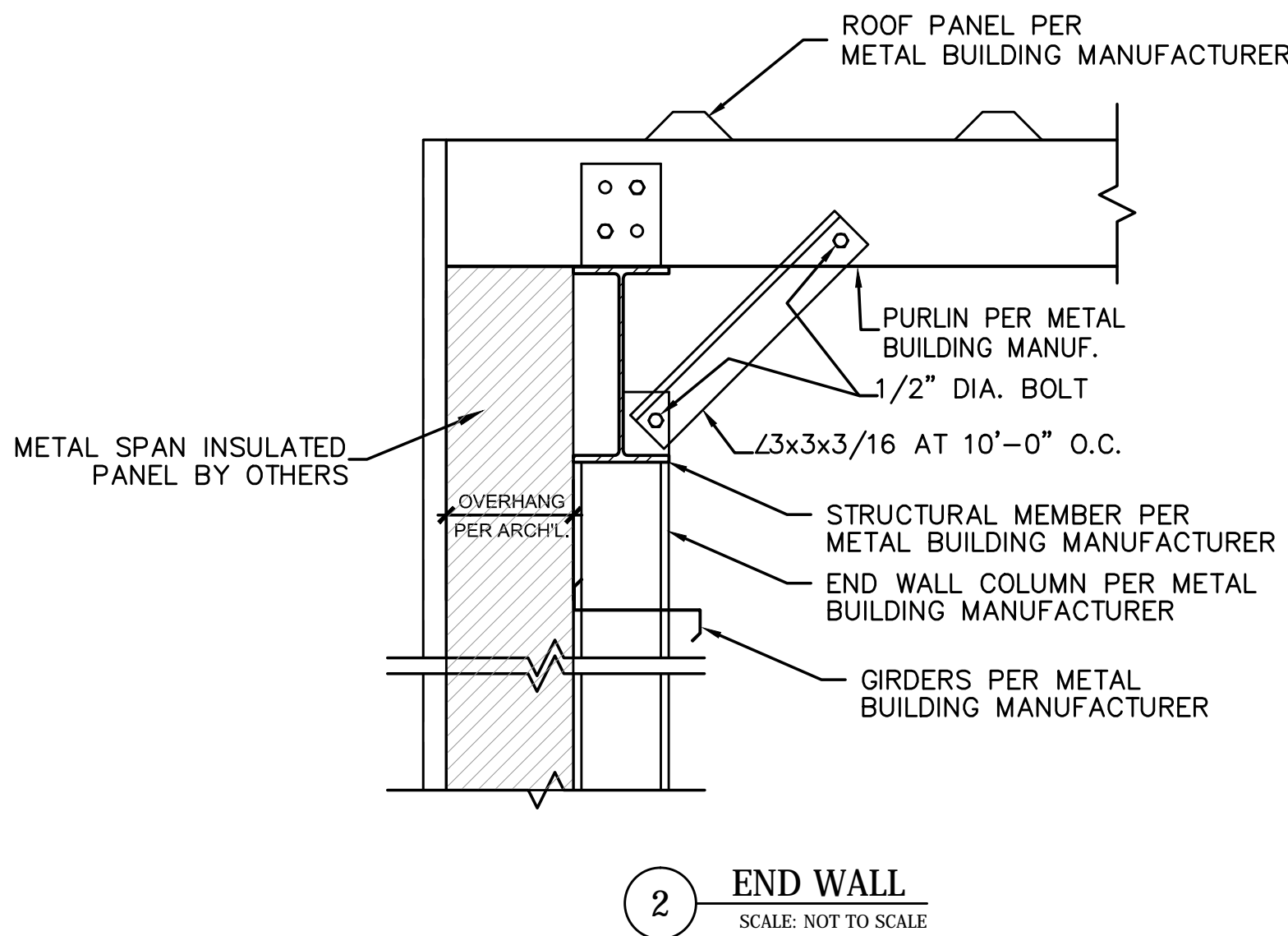
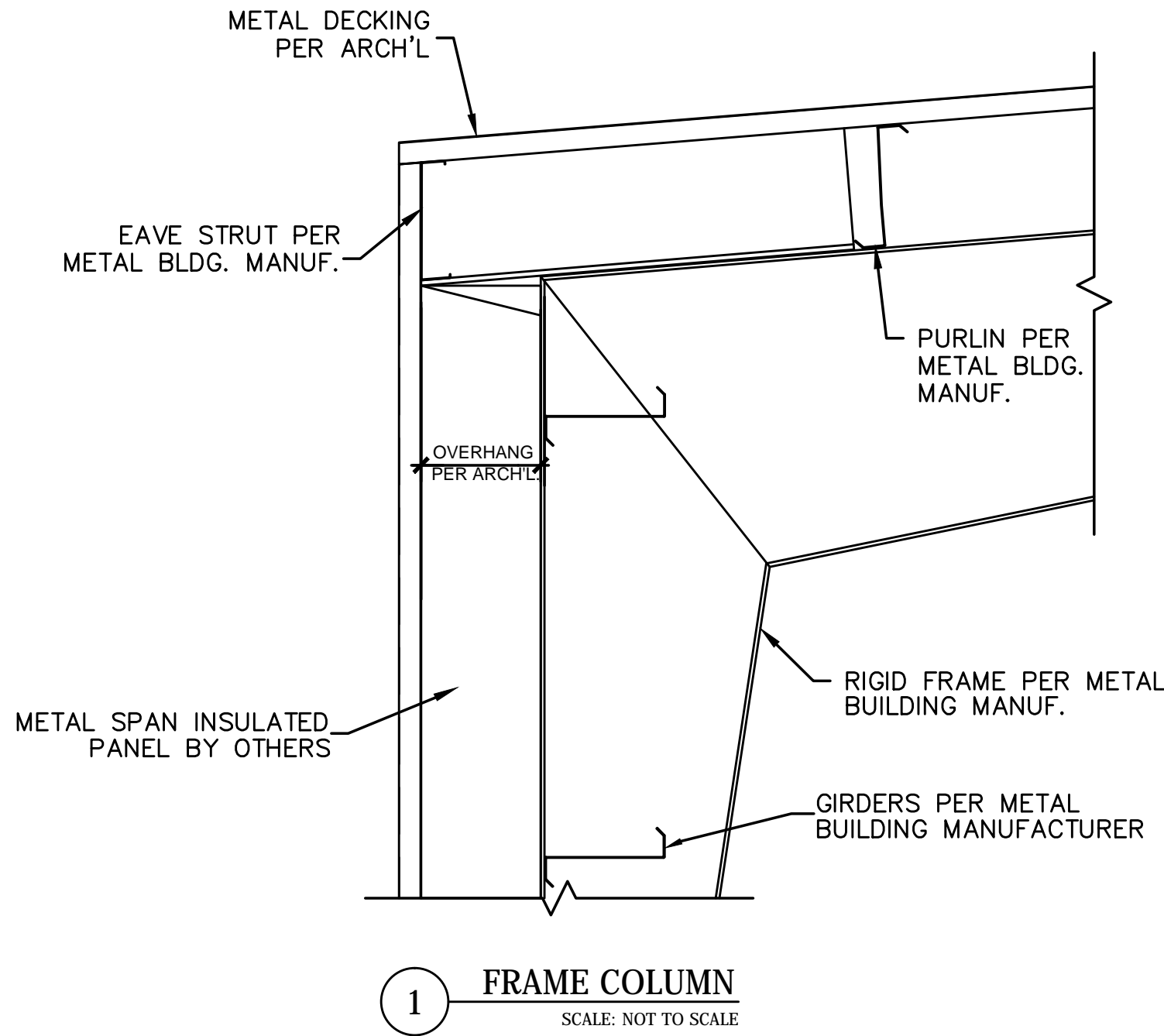
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No.	Description	Date

PROJECT #: 25-030102
DRAWN BY:
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DATE: 5/14/25

FOUNDATION
DETAILS

ADDENDUM #2

SD1.0



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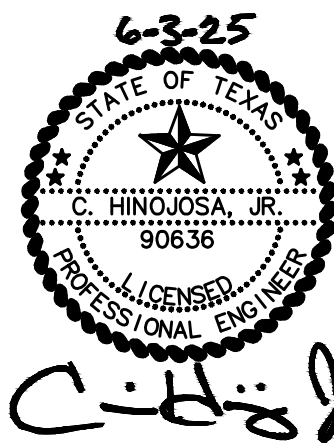
REVISION:		
No.	Description	Date

PROJECT #: 25-030102
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CHECKED BY:
DATE: 5/14/25

**FRAMING
DETAILS**

ADDENDUM #2

SD2.0



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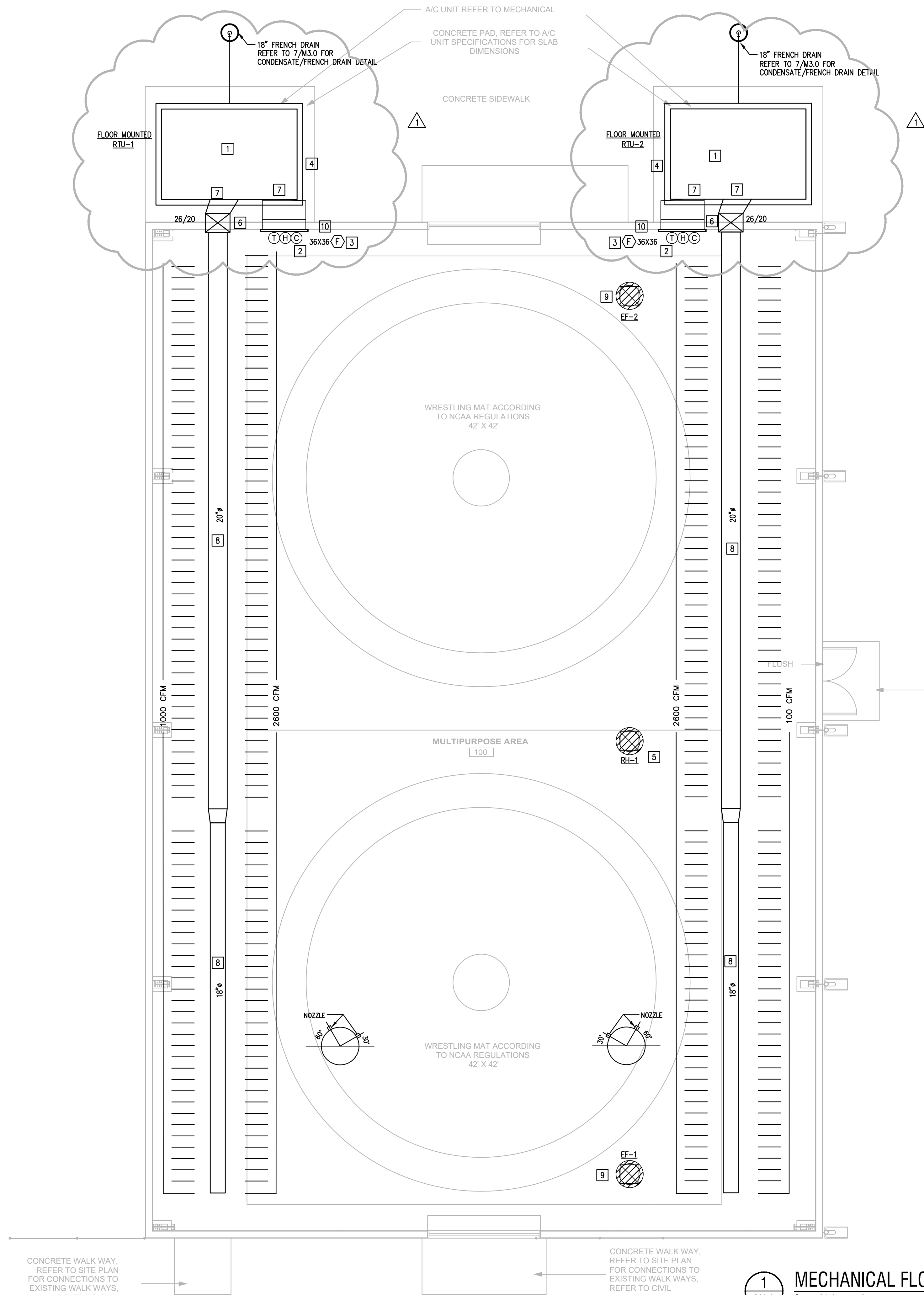
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No.	Description	Date
1	ADDENDUM #2	06-03-2025

PROJECT #: 25-030102
DRAWN BY: N.M.
CHECKED BY: CG3
DATE: 4/28/25

MECHANICAL
FLOOR PLAN

M1.1



MECHANICAL GENERAL NOTES

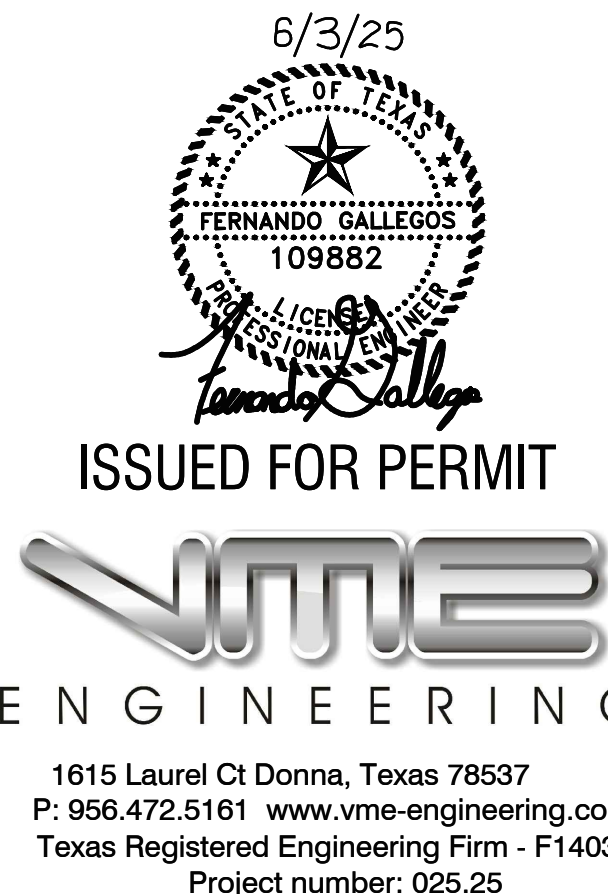
- CONTRACTOR SHALL BALANCE EACH SPACE WITH THE CFM SHOWN ON PLAN. NOTE NOT ALL SPACES HAVE SAME CFM SHOWN ON RTU SCHEDULE.
- NEW PIPING AND DUCTWORK SHOWN ON PLAN ARE SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK ROUTING, OFFSET AND RUN PIPING, DUCTWORK INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ANY EXTRA PIPING, DUCTWORK, FITTINGS, INSULATIONS AND OTHER ACCESSORIES IN ORDER TO COMPLETE THE INSTALLATION.
- COORDINATE LOCATIONS ROOF OPENINGS AND SIZES OF WALL OPENINGS WITH ARCHITECT AND STRUCTURE ENGINEERS.
- EQUIPMENT SIZES, DIMENSIONS AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE VENDOR DRAWINGS BEFORE FABRICATION OF DUCTWORK, PIPING.
- DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE AIR STREAM DIMENSIONS. DUCTWORK SHALL BE SHEET METAL.
- CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL HVAC EQUIPMENT PRIOR TO INSTALLATION.

MECHANICAL KEYED NOTES

- RTU ON FLOOR PROVIDE 6" CONCRETE PAD. COORDINATE INSTALLATION WITH SIDE OPENINGS AND REQUIRED CLEARANCES. PROVIDE PROPER SUPPORT. FIELD COORDINATE LOCATION WITH STRUCTURE AND OFFSET AS REQUIRED. PROVIDE FLEXIBLE CONNECTIONS ON SUPPLY AND RETURN DUCT.
- PROVIDE SPACE TEMPERATURE SENSOR, SPACE HUMIDITY SENSOR, CUZ SENSOR. REFER TO SCHEDULE. PROVIDE CONNECTION SO SCHOOLS CONTROL SYSTEM.
- PROVIDE FILTERED RETURN AIR CURTLED AS SCHEDULED ON DOOR/WALL/CEILING. SIZE IS INDICATED ON PLAN.
- PROVIDE 6" CONCRETE PAD FOR ACCU.
- PROVIDE RELIEF HOOD ON ROOF. PROVIDE 14" ROOF CURB. PROVIDE RELIEF DAMPER SET AT 0.05". COORDINATE WITH ROOF SLOPE. PROVIDE DUCT SAME SIZE AS OPENING AND TERMINATE 12" BELOW ROOF INSULATION. PROVIDE WIRE MESH AT END.
- PROVIDE PROTECTIVE SLEEVE TO EXPOSED DUCT. PAINT OR COVER TO BE WHITE.
- PROVIDE TRANSITION FROM RTU OPENING TO DUCT INDICATED ON PLANS. PROVIDE FLEXIBLE CONNECTION.
- RUN DUCT AS HIGH AS POSSIBLE. MINIMUM 12' A.F.F. NOZZLES TO HAVE MORE FLOW TOWARDS MIDDLE OF BUILDING.
- PROVIDE EXHAUST FAN ON ROOF. PROVIDE 14" ROOF CURB. COORDINATE WITH ROOF SLOPE. PROVIDE DUCT SAME SIZE AS EXHAUST OPENING. ROUTE TO 24" BELOW ROOF INSULATION. PROVIDE WIRE MESH AT END. FAN TO BE ON WHEN RESPECTIVE RTU OUTSIDE AIR IS OPEN AND OFF WHEN OUTSIDE AIR DAMPER IS CLOSED. PROVIDE NECESSARY RELAYS OR CONTACTOR FOR PROPER CONTROL.
- PROVIDE 36"X36" GRILLE. PROVIDE 20" PLENUM. FROM PLENUM PROVIDE TRANSITION TO SAME SIZE AS RTU OPENING.

REFERENCE CODES

- 2018 INTERNATIONAL BUILDING CODE.
- 2018 INTERNATIONAL FIRE CODE.
- 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL PLUMBING CODE
- 2017 NATIONAL ELECTRICAL CODE
- 2015 INTERNATIONAL ENERGY CONSERVATION CODE



AIR DEVICE SCHEDULE			
MARK	MFR. & MODEL	TYPE	REMARKS
<div>F</div>	TITUS 350FLF1	SIDEWALL RETURN AIR GRILLE	ALUMINUM CONSTRUCTION WITH FRAME FOR SURFACE MOUNT. 3/4" BLADE SPACING, DOUBLE DEFLECTION WITH FRONT BLADES PARALLEL TO LONG DIMENSION.
NOTES: 1. REFER TO ARCHITECTURAL DRAWINGS FOR FINISH. 2. REFER TO MECHANICAL FLOOR PLAN FOR NECK SIZES.			

EXHAUST FAN SCHEDULE	
MARK	EF-1,2
SERVES	MULTIPURPOSE
TYPE/DRIVE	BELT
CFM	600
EXT. S.P. (IN. W.G.)	0.50
HORSEPOWER	1/4
RPM (MAX.)	1,010
SONES (MAX.)	0.6
VOLTS/PHASE/HERTZ	120/1/60
MANUFACTURER	GREENHECK
MODEL NUMBER	GB-091
NOTES	1,2

NOTES:
1. PROVIDE WITH BACKDRAFT DAMPER.
2. INTERLOCK FAN WITH SWITCH RTU OUTSIDE AIR.

ROOFTOP UNIT SCHEDULE (ELECTRIC HEAT)	
FAN AND MOTOR DATA	MARK
	RTU- 12.5 Ton
	SERVES
	AREA
	SUPPLY AIR (CFM)
COOLING	OUTSIDE AIR (CFM)
	600
	MINIMUM HP (MOTOR)
	5
	DRIVE
HEATING	EXT. SP. (IN W.G.)
	0.8
	TOTAL COOLING (MBH)
	144.3
	SENSIBLE COOLING (MBH)
ELECTRIC	105.4
	ENTERING AIR TEMP. DB/WB (F)
	78.5/64.8
	LEAVING AIR TEMP. DB/WB (F)
	54.4/52.6
GENERAL	AMBIENT TEMP. (F)
	100
	TOTAL HEATING (KW) / STAGES
	18
	ENTERING AIR TEMP. DB (F)
ELECTRIC	60
	LEAVING AIR TEMP. DB (F)
	74.2
	VOLTS/PHASE/HERTZ
	480/3/60
GENERAL	MCA
	45.8
	MOCP
	50
	MANUFACTURER
GENERAL	JOHNSON CONTROLS
	MODEL
	KB150E18R4BDBCL6E1
	NOMINAL TONS
	12.5
GENERAL	I.E.E.R./E.E.R. (ARI)
	16.0 IEER/ 12.2 EER
	WEIGHT (LBS)
	1,415
	NOTES
	1,2,3,5,6,7,8,9,10,11

- NOTES:
1. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.
 2. PROVIDE FACTORY MOUNTED CONDENSER COIL GUARD.
 3. PROVIDE DUAL ENTHALPY ECONOMIZER.
 4. PROVIDE WITH FACTORY INSTALLED HOT GAS REHEAT DEHUMIDIFICATION.
 5. PROVIDE WITH CO2 DEMMAND CONTROL VENTILATION.
 6. PROVIDE WITH FACTORY INSTALLED SIMPLICITY CONTROLLER WITH BACNET INTERFACE.
 7. PROVIDE WITH UNIT POWERED ELECTRIC GFCI OUTLET.
 8. PROVIDE FACTORY SPACE TEMP SENSOR AND HUMIDITY SENSOR.
 9. PROVIDE FACTORY INSTALLED VFD FOR SINGLE ZONE VAV OPERATION.
 10. PROVIDE UNIT WITH SIDE SUPPLY AND RETURN CONNECTIONS. MOUNT UNIT ON MIN 6" CONCRETE PAD WITH NEOPRENE PAD.
 11. CONTACT TEXAS AIRSYSTEMS FOR PRICING AND AVAILABILITY AT (956)566-9540 OR CARLOS.CASTANEDA@TEXASAIRSYSTEMS.COM



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MECHANICAL
SCHEDULES

M2.0

6/3/25

STATE OF TEXAS

★

FERNANDO GALLEGOS

109882

LICENS

EXPIRATION 06/30/2026

Fernando Gallegos

ISSUED FOR PERMIT

VME

ENGINEERING

1615 Laurel Ct Donna, Texas 78537
P: 956.472.5161 www.vme-engineering.com
Texas Registered Engineering Firm - F14031
Project number: 025.25



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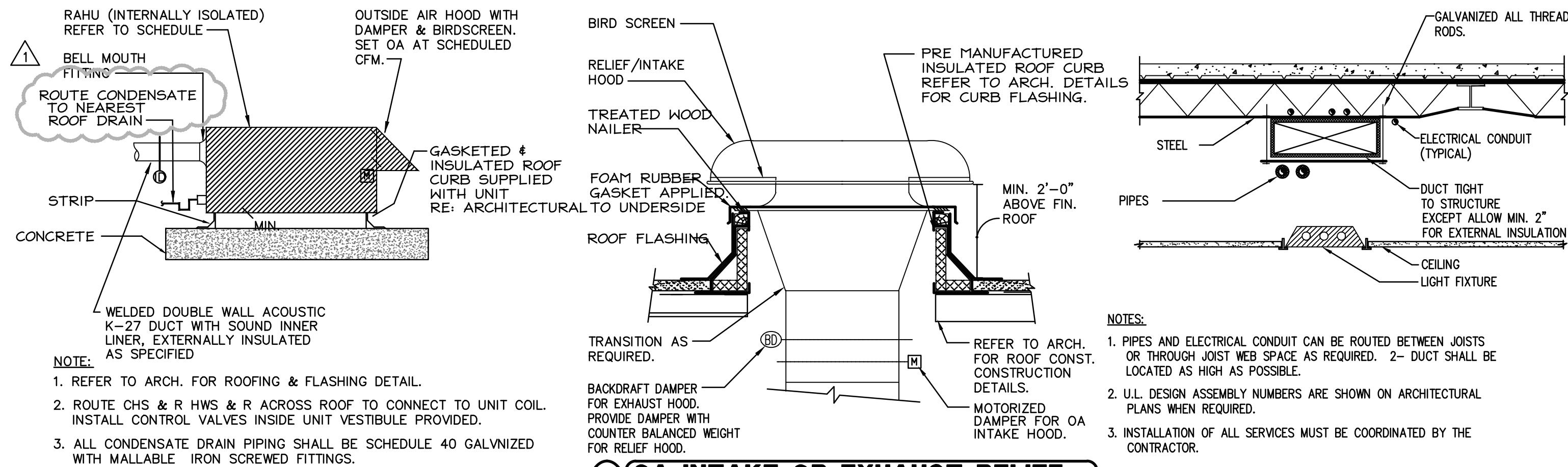
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DATE: 4/28/25

MECHANICAL
DETAILS

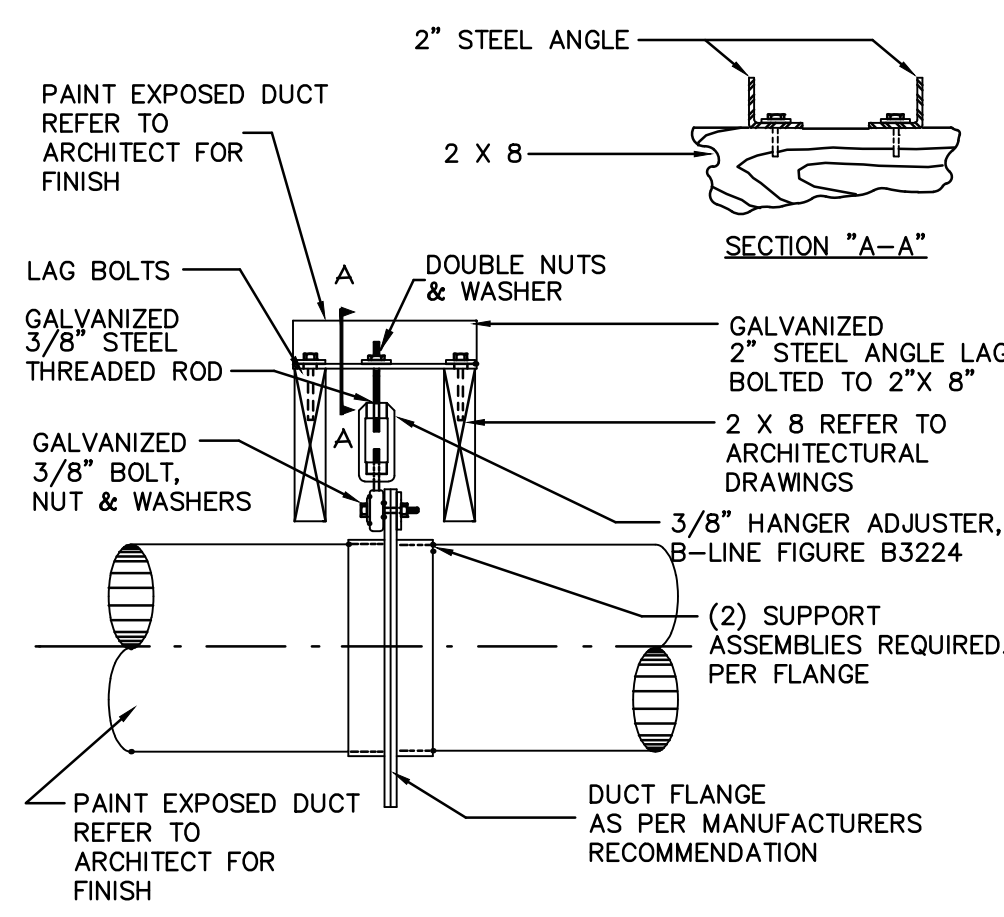
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1 FLOOR MOUNTED RTU DETAIL
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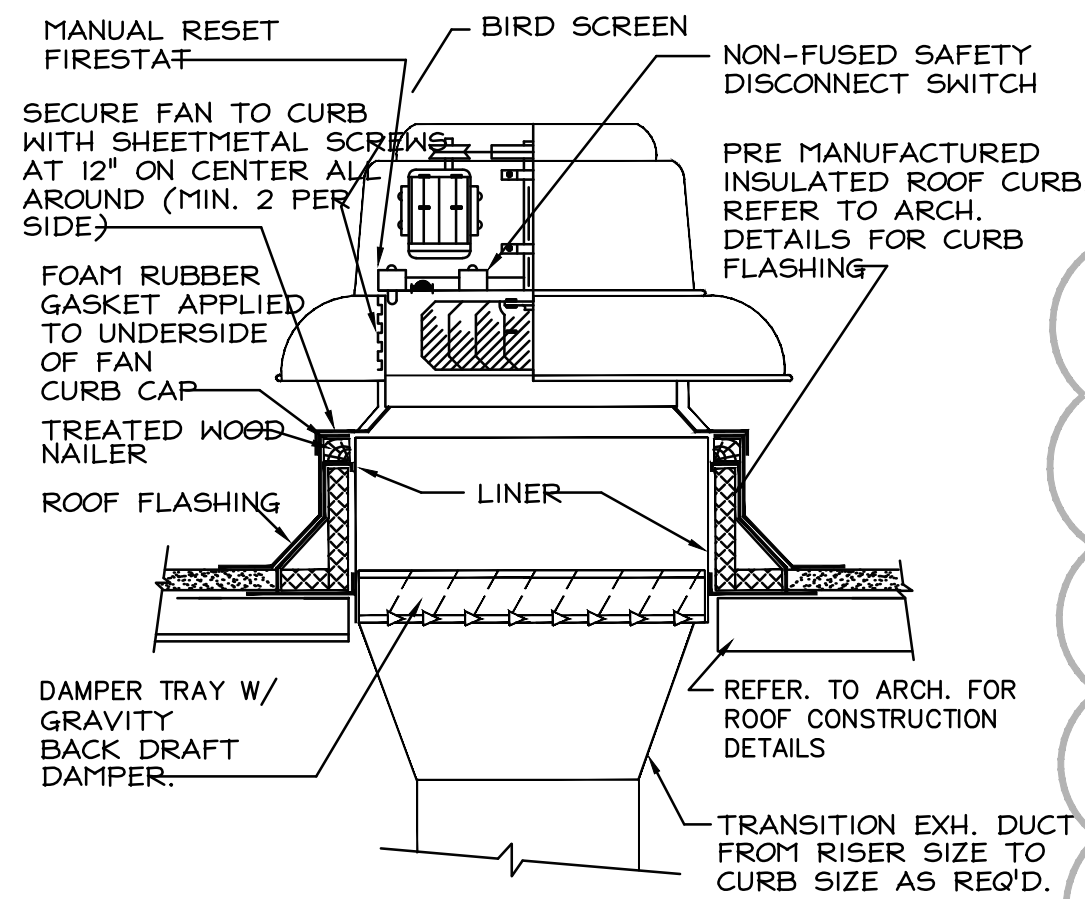
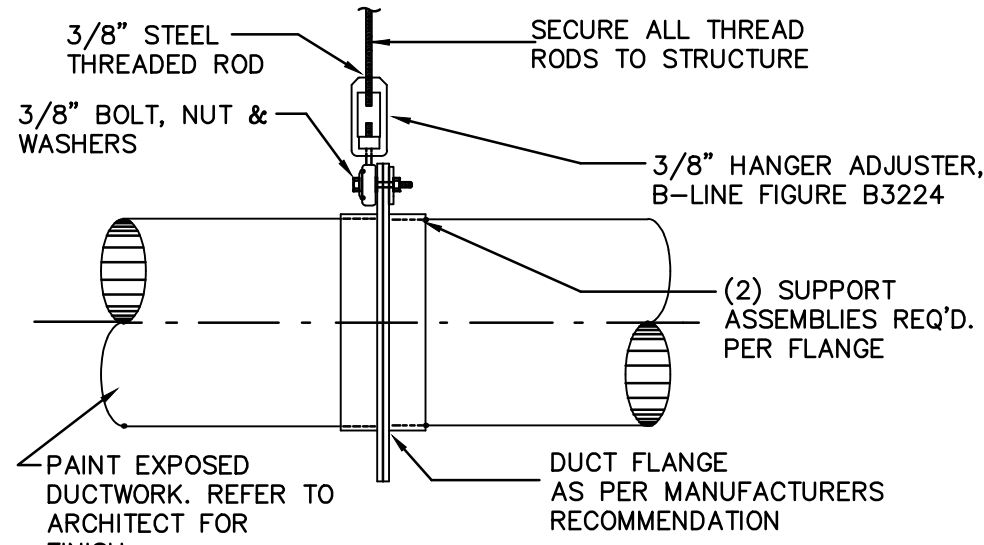
2 OA INTAKE OR EXHAUST RELIEF HOOD
NOT TO SCALE

3 TYP. MEP INSTALLATION DETAIL
NOT TO SCALE

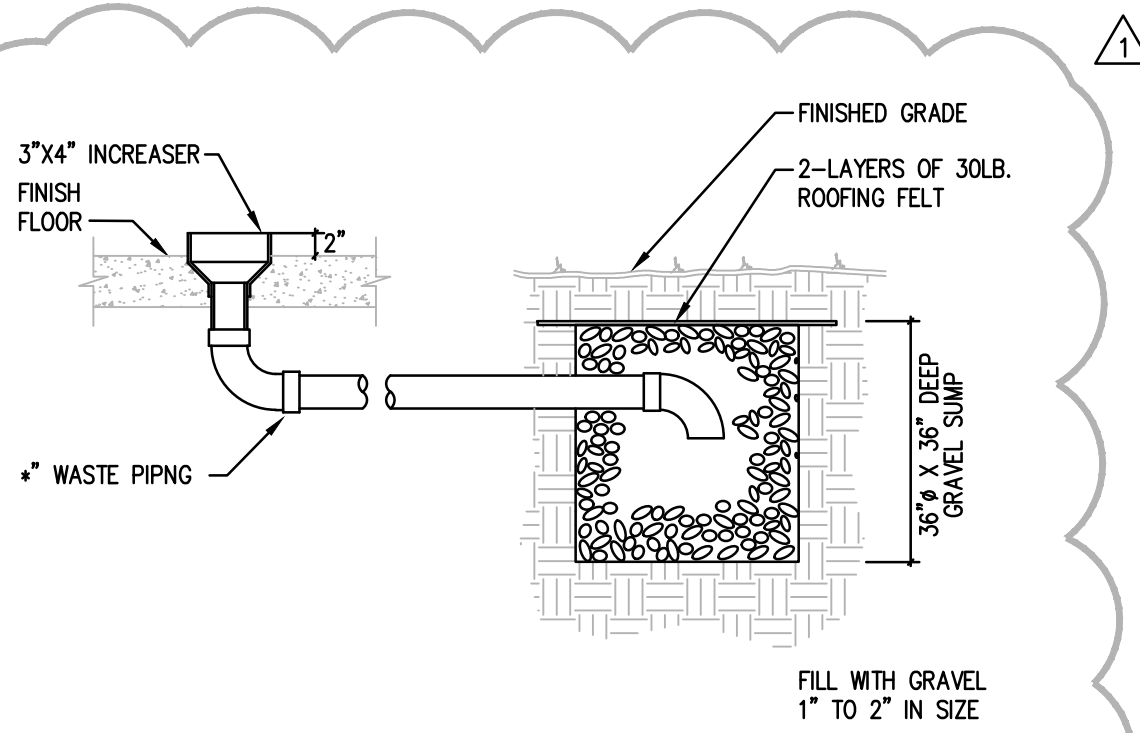


4 OVAL OR ROUND DUCT MOUNTING
NOT TO SCALE

5 OVAL OR ROUND DUCT HANGER
NOT TO SCALE



6 CENTRIFUGAL ROOF EXHAUST FAN
NOT TO SCALE



7 CONDENSATE DRAIN WELL DETAIL
NOT TO SCALE





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ELECTRICAL
POWER
FLOOR PLAN

6/3/25



ISSUED FOR PERMIT



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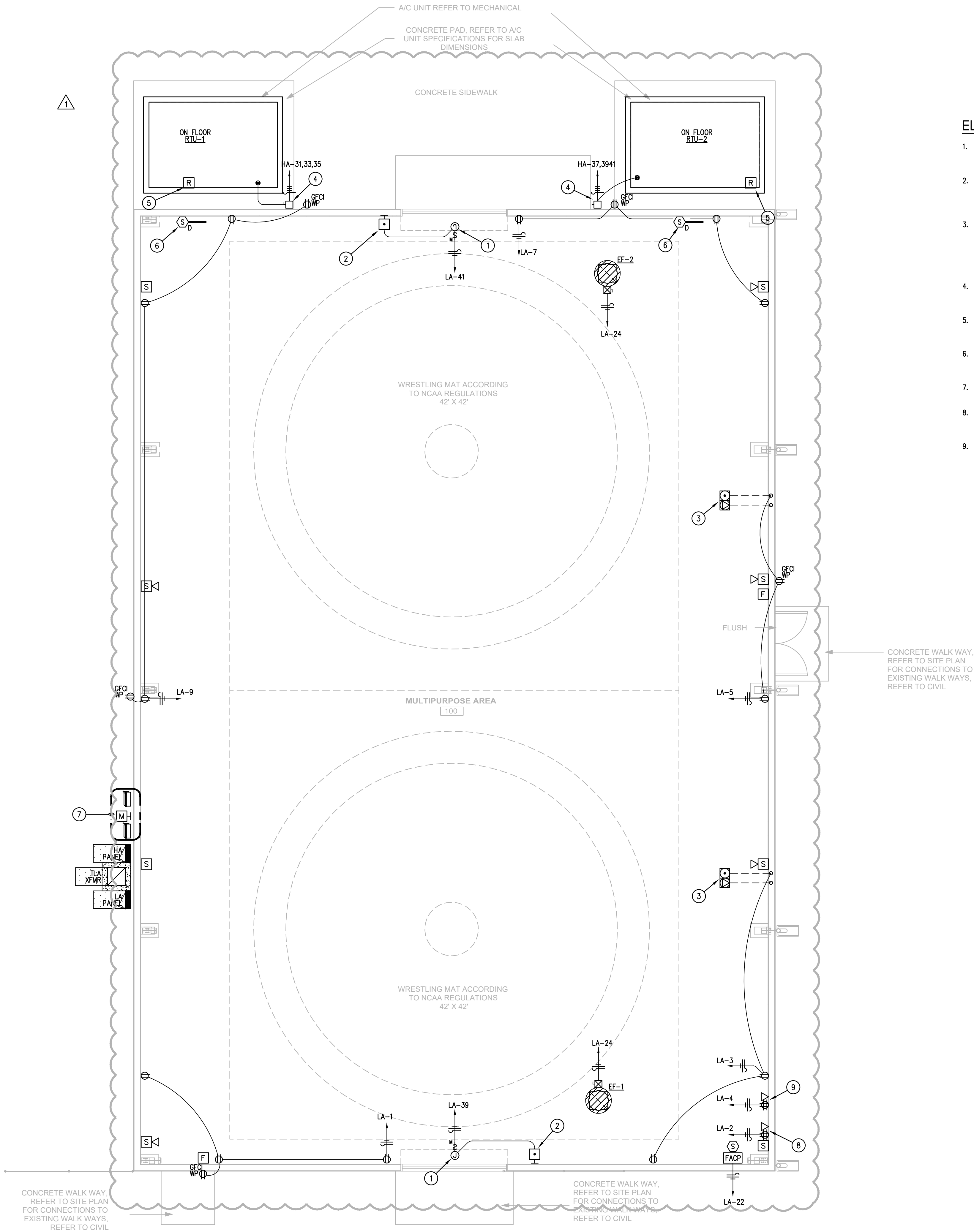
E1.1

ELECTRICAL KEYED NOTES:

1. PROVIDE 120V POWER FOR MOTORIZED OVERHEAD DOOR. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH DOOR INSTALLER PRIOR TO PLACEMENT. PROVIDE MOTOR RATED SWITCH.
2. PROVIDE BACK BOX FOR UP/DOWN PUSHBUTTON CONTROL STATION FOR MOTORIZED OVERHEAD DOOR. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH DOOR INSTALLER PRIOR TO ROUGH-IN. ROUTE (1) 3/4" CONDUIT WITH CONTROL WIRE TO MOTORIZED DOOR CONTROL BOX.
3. PROVIDE HUBBELL 4-GANG FLOOR BOX #CFBG30ROR WITH (2) # PWFEMPCR20GRYTR DUPLEX RECEPTACLES, #CFBHUB2 HUB AND #CFBS18RCVXX COVER. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH ARCHITECT AND OWNER PRIOR TO PLACEMENT. ROUTE (1) 3/4" UNDERGROUND CONDUIT FOR POWER WIRING AND (1) 2" UNDERGROUND CONDUIT WITH PULL-STRING FOR DATA CABLING TO NEAREST WALL AND UP TO STRUCTURE.
4. PROVIDE 60A/3P/NF/N3R SAFETY DISCONNECT FOR ROOF TOP UNIT. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO PLACEMENT.
5. PROVIDE FIRE ALARM SYSTEM SHUT DOWN RELAY FOR HVAC EQUIPMENT. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO PLACEMENT.
6. PROVIDE DUCT SMOKE DETECTOR FOR HVAC EQUIPMENT SHUT DOWN. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO PLACEMENT.
7. PROPOSED LOCATION FOR SERVICE EQUIPMENT AND POWER COMPANY METERING GEAR. REFER TO ONE LINE DIAGRAM AND SITE PLANS FOR ADDITIONAL INFORMATION.
8. PROVIDE QUAD RECEPTACLE AND DATA OUTLET FOR I.T. RACK. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO PLACEMENT.
9. PROVIDE QUAD RECEPTACLE AND DATA OUTLET FOR SOUND EQUIPMENT. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH AV CONTRACTOR PRIOR TO ROUGH-IN.

ELECTRICAL GENERAL NOTES:

- A. ELECTRICAL CONTRACTOR SHALL GROUP HOMERUNS WITH THREE HOTS (A,B, AND C PHASE), AND #10 NEUTRAL TO PROVIDE MULTI-WIRE BRANCH CIRCUITS. NO MORE THAN 2 MULTI-WIRE HOMERUNS PER CONDUIT. CONTRACTOR SHALL PROVIDE HANDLE TIES MANUFACTURED BY THE SWITCH GEAR SUPPLIER ON ALL MULTI-WIRE CIRCUITS TO MEET THE REQUIREMENTS OF ARTICLE 210.4(B) OF THE 2020 NEC. AT THE CONTRACTOR'S OPTION, TWO AND THREE POLE BREAKERS MAY BE USED.
- B. CONTRACTOR SHALL VERIFY DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL CASEWORK AND MILLWORK ELEVATIONS.
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, OUTLET BOXES, JUNCTION BOXES FOR ALL TECHNOLOGY DEVICE OUTLETS. REFER TO DIVISION 26 SPECIFICATIONS AND TECHNOLOGY DRAWINGS FOR ALL WORK REQUIRED.
- D. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL EXHAUST FAN CONTROLS. PROVIDE A FAN SWITCH IF INDICATED BY MECHANICAL. ALL EXHAUST FANS SHALL BE PROVIDED WITH BUILT-IN DISCONNECT SWITCH.
- E. HVAC AND PLUMBING EQUIPMENT MAY DIFFER FROM LOCATIONS AS SHOWN ON ELECTRICAL DRAWINGS. COORDINATE EXACT LOCATIONS WITH MECHANICAL AND PLUMBING CONTRACTOR.
- F. CONTRACTOR SHALL INDICATE CIRCUIT SERVING EACH RECEPTACLE BY PROVIDING TYPE WRITTEN LABELING LOCATED ON INSIDE FACE OF EACH RECEPTACLE COVER PLATE.
- G. ELECTRICAL CONTRACTOR SHALL ROUTE ELECTRICAL CONDUIT AND WIRING TO ALL ROOF HVAC EQUIPMENT THROUGH ROOF CURBS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- H. CONTRACTOR SHALL ARRANGE PANELBOARDS IN ELECTRICAL ROOM TO PROVIDE CLEARANCE PER NEC 110.26.
- I. MECHANICAL CONTRACTOR SHALL FURNISH INTEGRAL DISCONNECT SWITCH FOR ALL MECHANICAL EQUIPMENT. ELECTRICAL CONNECTIONS SHALL BE PROVIDED BY DIVISION 26.
- J. VAVS WITH DAMPER ONLY SHALL BE CONNECTED BY MECHANICAL CONTRACTOR.
- K. PROVIDE JUNCTION BOX AND POWER FOR ALL HARD WIRED PLUMBING FLUSH VALVES AND SENSOR EQUIPMENT TRANSFORMERS FROM NEAREST 120V/20A CIRCUIT. COORDINATE WITH PLUMBER PRIOR TO ROUGH-IN FOR EXACT LOCATION.
- L. ALL RECEPTACLES LOCATED IN RESTROOMS, JANITOR CLOSETS, MECHANICAL ROOMS, SERVING ELECTRIC DRINKING FOUNTAINS OR VENDING MACHINES, LOCATED WITHIN 6' OF A SINK, LOCATED ABOVE A WET COUNTERTOP OR IN A KITCHEN OR COFFEE BAR SHALL BE GFCI. EACH GFCI PROTECTED RECEPTACLE SHARING THE SAME CIRCUIT SHALL HAVE ITS OWN RE-SET AND TEST BUTTON.



1
E1.1

ELECTRICAL POWER FLOOR PLAN

Scale: 3/16" = 1'-0"



TEXAS ARCHITECT
FIRM No: BR4247
WWW.CG5ARCHITECT.COM

SEAL:

ECISD HIGH
SCHOOL
ATHLETIC
MULTI-USE
BUILDING
25-74

J.
ECONOMEDES
HIGH SCHOOL

1414 N Alamo
Rd, Edinburg,
TX 78542

CLIENT:
EDINBURG CISD

REVISION:		
No.	Description	Date
1	ADDENDUM #2	06-03-2025

PROJECT #: 25-030102
DRAWN BY: N.M.
CHECKED BY: CG3
DATE: 4/28/25

ELECTRICAL
LIGHTING
FLOOR PLAN

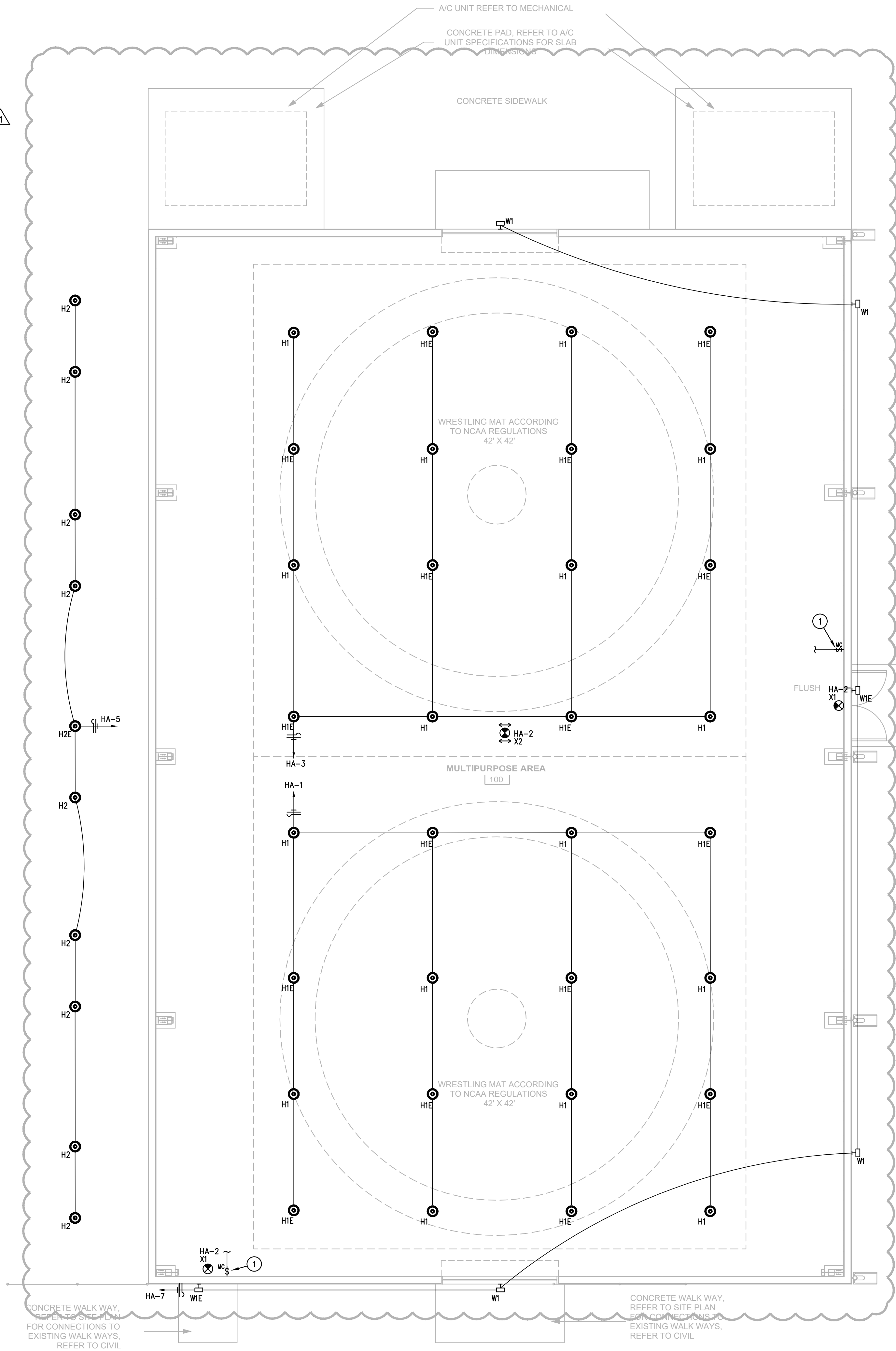


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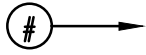
1615 Laurel Ct Donna, Texas 78537
P: 956.472.5161 www.vme-engineering.com
Texas Registered Engineering Firm - F14031
Project number: 025.25

E1.2



ELECTRICAL KEYED NOTES:

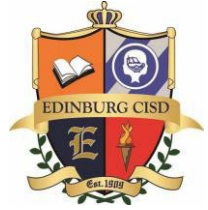
1. PROVIDE MOMENTARY CONTACT SWITCH ROUTED TO INTERIOR LIGHTING LIGHTING CONTACTOR.



ELECTRICAL GENERAL NOTES:

- A. ALL CEILING MOUNTED OCCUPANCY SENSORS SHALL BE HUBBELL (WATTSTOPPER) #OMDT-2000 (#DT-300). PROVIDE (#BZ-50 UNIVERSAL VOLTAGE) POWER PACKS AND OVERRIDE SWITCHES AS REQUIRED FOR CONTROL INDICATED.
- B. ALL WALL MOUNTED OCCUPANCY SENSORS SHALL BE HUBBELL (WATTSTOPPER) #LHMTST (DSW-100)..
- C. ALL CEILING MOUNTED DEVICES LOCATED IN LAY-IN CEILINGS SHALL BE CENTERED IN THE CEILING TILE.
- D. ALL WALL BOX DIMMERS SHALL BE LUTRON NT SERIES UNLESS NOTED OTHERWISE.
- E. MULTIPLE SWITCHES SHOWN TOGETHER SHALL BE GANGED UNDER A COMMON COVER PLATE.
- F. PROVIDE UN-SWITCHED CIRCUIT TO ALL EXIT SIGNS.
- G. CONTRACTOR SHALL INDICATE LIGHTING CIRCUIT CONTROLLED BY EACH SWITCH BY PROVIDING TYPE WRITTEN LABELING LOCATED ON INSIDE FACE OF EACH SWITCH COVER PLATE.
- H. SPRINKLER CONTRACTOR SHALL COORDINATE SPRINKLER HEAD LOCATIONS WITH CEILING MOUNTED LIGHTING FIXTURES.
- I. FIXTURES DESIGNATED "NL" SHALL BE UNSWITCHED NIGHTLIGHT. FIXTURES SHALL BE CONNECTED TO EMERGENCY CIRCUIT INDICATED.
- J. PROVIDE ALL EMERGENCY LIGHT FIXTURES WITH UNSWITCHED HOT LEG AS DEFINED IN NEC 700.12
- K. ROUTE AN UNSWITCHED HOT LEG TO ALL LIGHT FIXTURES DESIGNATED AS EMERGENCY FIXTURES. HOT LEG SHALL ORIGINATE FROM CIRCUIT SERVING NORMAL LIGHTING FIXTURES IN THAT SPACE. UNSWITCHED HOT LEG SHALL CONNECT TO THE NORMAL POWER SENSING LUG ON THE EMERGENCY BATTERY PACK.
- L. LOWER CASE CHARACTER ADJACENT TO SWITCH AND/OR LIGHTING FIXTURE INDICATES SWITCHING GROUP.

1
E1.2
ELECTRICAL LIGHTING FLOOR PLAN
Scale: 3/16" = 1'-0"



ROBERT VELA HIGH SCHOOL

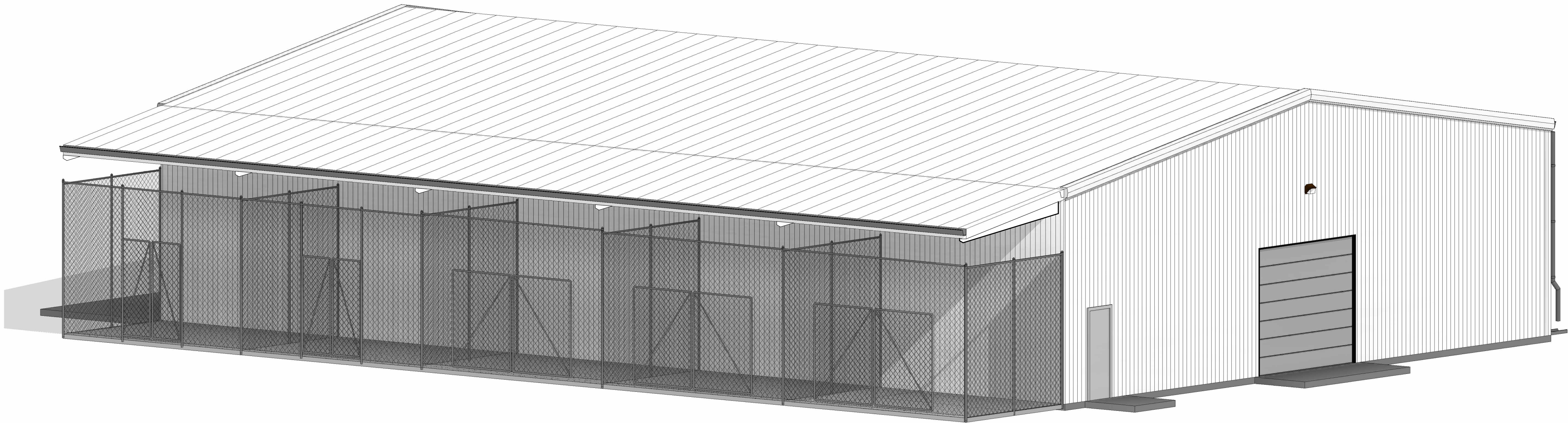


ECISD HIGH SCHOOL ATHLETIC MULTI-USE BUILDING

411 N 8TH AVE, EDINBURG,
TX 78541

ROBERT VELA HIGH SCHOOL

ECISD CSP 25-74

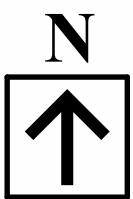


VICINITY MAP:



GENERAL INFO:

ROBERT VELA HIGH SCHOOL:
801 E Canton Rd, Edinburg, TX 78539




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S1.0	GENERAL NOTES
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M1.1	MECHANICAL FLOOR PLAN
M2.0	MECHANICAL SCHEDULES
M3.0	MECHANICAL DETAILS

PROJECT INFORMATION	
ADDRESS:	801 E Canton Rd, Edinburg, TX 78539
ARCHITECT OF RECORD:	JOSE CARLOS GARCIA III, RA, AIA TBAE: # 22658 CG5 ARCHITECT LLC 1314 E 22ND ST. MISSION, TX, 78572
OWNER:	EDINBURG CISD
PROJECT DESCRIPTION:	MULTIPURPOSE BUILDINGS

CIVIL


CIVIL • UTILITY SYSTEMS • PROJECT MANAGEMENT

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STRUCTURAL


ENGINEERING, LLC
TBAE FIRM NO. F-5719

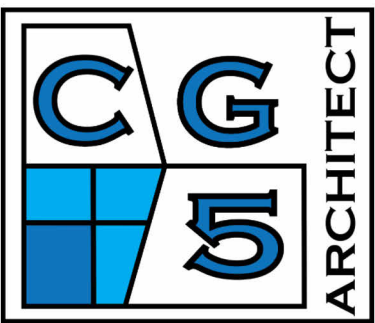
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M.E.P.


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ARCHITECT



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TEXAS ARCHITECT
FIRM No: BR4247
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ECISD HIGH
SCHOOL
ATHLETIC
MULTI-USE
BUILDING
ECISD CSP 25-74

ROBERT VELA
HIGH SCHOOL

801 E Canton
Rd, Edinburg,
TX 78539

CLIENT:
EDINBURG CISD

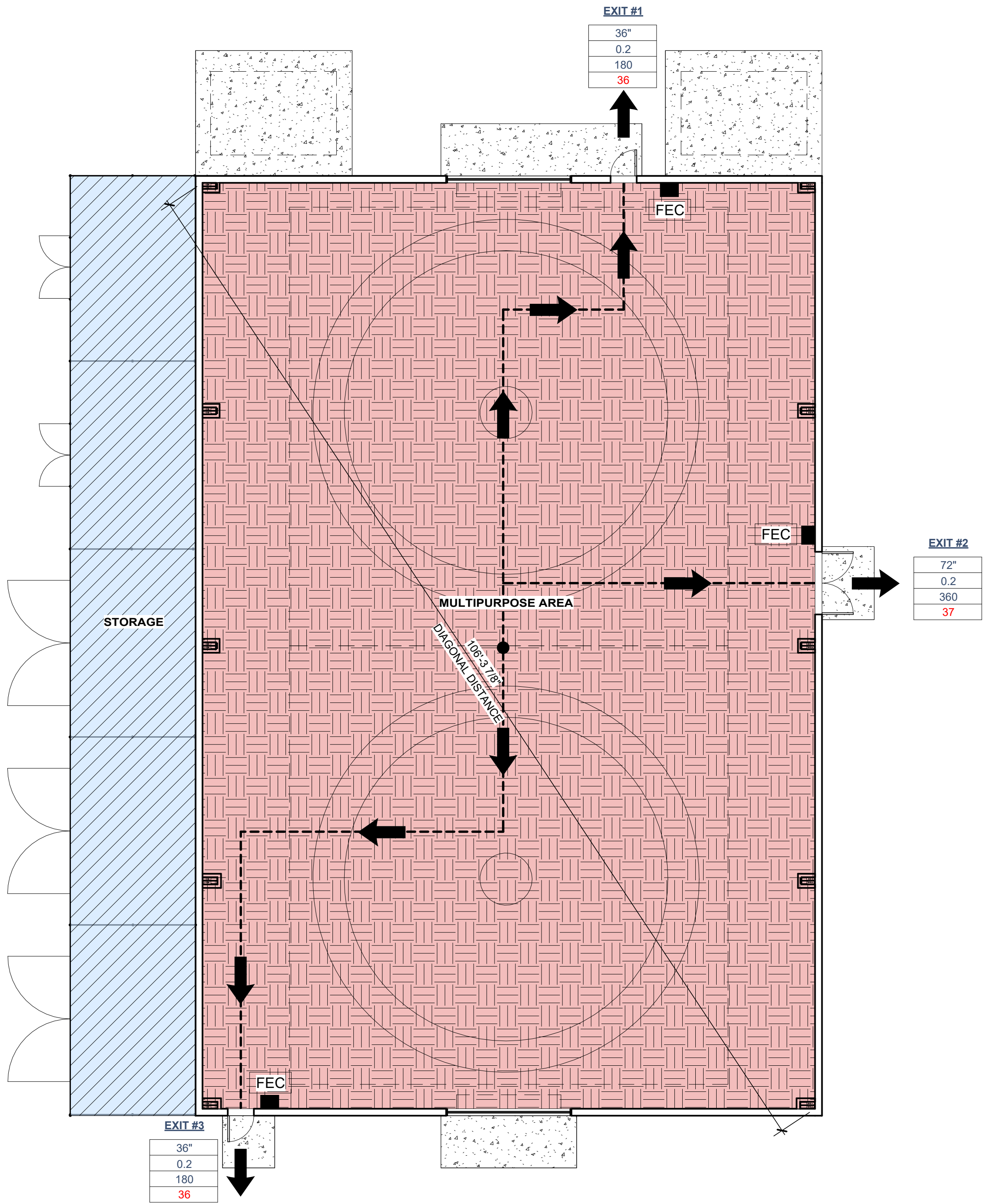
REVISION:		
No.	Description	Date
1	AS1 1	5/28/2025

PROJECT #: 25-030102
DRAWN BY: EC
CHECKED BY: CG3
DATE: 5/28/2025

COVER PAGE

G0.0

ECISD HIGH SCHOOL ATHLETIC MULTI-USE BUILDING



PROJECT INFORMATION		BUILDING ANALYSIS		PARKING REQUIREMENTS		PLUMBING REQUIREMENTS	
<div>LOCATION:801 E Canton Rd, Edinburg, TX 78539</div> <div>ARCHITECT OF RECORD:JOSE CARLOS GARCIA III, RA, AIA TBAE: # 22658 TBAE FIRM: BR 4247 CG5 ARCHITECT LLC 1314 E 22ND ST. MISSION, TX, 78572</div> <div>OWNER:ECISD</div> <div>PROJECT DESCRIPTION: NEW ATHLETIC MULTI-USE BUILDING</div>		<div>OCCUPANCY ANALYSIS</div> <div>PROPOSED OCCUPANCY:ASSEMBLY "A-3" CONSTRUCTION TYPE:V B ALLOWABLE BUILDING STORIES:1 PROPOSED STORIES:1 ALLOWABLE BUILDING HEIGHT:40 FT ACTUAL BUILDING HEIGHT:22 FT ALLOWABLE BUILDING AREA:6,000 SF TOTAL BUILDING AREA:5,400 SF</div> <div>EXITING ANALYSIS</div> <div><div>NUMBER OF EXITS:</div><div>PROVIDED3</div><div>REQUIRED3</div></div> <div>PANIC HARDWARE REQUIRED AT ALL EXITS</div>		<div>PARKING REQUIREMENTS: EXISTING PARKING PROVIDED</div> <div>EXISTING RESTROOMS TO REMAIN</div> <div>REQ'D PROVIDED</div> <div>W.C. MEN3W.C. WOMEN3LAVATORY4</div> <div>DRINKING FOUNTAIN2SERVICE SINK1</div>		<div>CITY OF EDINBURG (IPC 2018)</div> <div>EXISTING RESTROOM FIXTURES PROVIDED AT ADJACENT BUILDING. PATH OF TRAVEL NO MORE THAN 500FT MAX.</div> <div>PROPOSED PATH OF TRAVEL: 312 FT</div>	
CONSTRUCTION COMPONENTS		APPLICABLE CODES		FIRE SAFTY COMPONENTS			
<div>MATERIALS</div> <div><ul style="list-style-type: none">STEEL STRUCTURAL FRAMEMETAL STUD INTERIOR FRAMINGMETAL EXTERIOR FINISH</div>		2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL FUEL GAS CODE 2017 NATIONAL ELECTRICAL CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL FIRE CODE		<div>FIRE SPRINKLER REQUIRED:NO</div> <div>FIRE SPRINKLER PROVIDED:NO</div> <div>FIRE RATING REQUIREMENTS</div> <div>PRIMARY STRUCTURAL FRAME:NO FIRE RATING REQ'D BEARING WALLS EXTERIOR:NO FIRE RATING REQ'D BEARING WALLS INTERIOR:NO FIRE RATING REQ'D NONBEARING WALL EXTERIOR:NO FIRE RATING REQ'D NONBEARING WALL INTERIOR:NO FIRE RATING REQ'D FLOOR CONSTRUCTION:NOT APPLICABLE ROOF CONSTRUCTION:NO FIRE RATING REQ'D</div>			

CODE GENERAL NOTES

1. SEPARATE REVIEW, APPROVAL, AND PERMITS ARE REQUIRED FOR GRADING, ACCESSORY BUILDINGS & STRUCTURES, SIGNS, TRASH ENCLOSURES, BLOCK WALLS, RETAINING WALLS NOT SUPPORTING BUILDINGS, AND DEMOLITION WORK. CONTACT CITY FOR PROCEDURAL INFORMATION.

2. PROJECT INFORMATION AND CODE GENERAL NOTES ARE INTENDED FOR CODE COMPLIANCE SUCH AS OVERALL OCCUPANCY, EGRESS INFORMATION, FIRE SEPARATION AND GENERAL INFORMATION ONLY.

3. A FIRE SYSTEM APPROVED BY THE FIRE MARSHALL SHALL BE PROVIDED. AUDIBLE ALARM DEVICES SHALL BE USED IN ALL AREAS.

4. AN OCCUPANT LOAD SIGN SHALL BE POSTED IN ANY ROOM WITH AN OCCUPANT LOAD OVER 50. THE SIGN IS REQUIRED TO BE POSTED AT OR NEAR THE MAIN EXIT.

5. PROVIDE PANIC HARDWARE FOR GROUP "A" OCCUPANCIES WITH AN OCCUPANT LOAD OF 50 OR MORE.

6. MARKING OF FIRE RATED AND SMOKE STOP PARTITIONS: ALL SMOKE STOP PARTITIONS, HORIZONTAL EXIT ENCLOSURES, AND FIRE WALLS MUST BE PERMANENTLY MARKED ABOVE CEILINGS AS FOLLOWS: "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS". LETTERS SHALL BE 2 1/2" IN HEIGHT AND PAINTED RED. PROVIDE ONE LABEL PER STRUCTURAL BAY.

CODE COIMPLICANCE LEGEND

CODE COMPLIANCE LEGEND

SYMBOL	DESCRIPTION	COMMENTS
→	EGRESS EXIT PATH	
FEC	FIRE EXTINGUISHER	F.E. Type - 10# ABC, Amerex Model #419 or equal, Installed in Semi-Recessed cabinet

OCCUPANT TRAVEL DISTANCE:

EA: → EXIT ACCESS TRAVEL PATH
MAX: 250'-0" → EXIT MAXIMUM TRAVEL DISTANCE (IBC TABLE 1017.2)

EXIT # TAG:

EXIT #	← EXIT NUMBER
72"	← PROVIDED EXIT WIDTH
0.2	← OCCUPANT LOAD FACTOR
360	← MAXIMUM OCCUPANTS
87	← ACCUMULATED OCCUPANTS EXITING

BUILDING OCCUPANCY TOTAL:

CALCULATED AREA SF	OCCUPANTS	FUNCTIONS OF SPACE PER OCCUPANCY TABLE
5,202 SF	105	EXERCISE ROOM (50 GROSS)
1,080	4	STORAGE (300 GROSS)
TOTAL OCCUPANTS:		109

VICINITY MAP

PROPOSED ATHLETIC MULTI-USE BUILDING
801 E Canton Rd, Edinburg, TX 78539

TRUE NORTH

TEXAS ARCHITECT
FIRM No: BR4247
WWW.CG5ARCHITECT.COM

SEAL:
6-4-2025
REGISTERED ARCHITECT
JOSE C GARCIA III
22658
STATE OF TEXAS

ECISD HIGH SCHOOL ATHLETIC MULTI-USE BUILDING
ECISD CSP 25-74

ROBERT VELA HIGH SCHOOL

801 E Canton Rd, Edinburg, TX 78539

CLIENT:
EDINBURG CISD

REVISION:

No.	Description	Date
1	ASI 1	5/28/2025

PROJECT #: 25-030102
DRAWN BY: EC
CHECKED BY: CG3
DATE: 5/28/2025

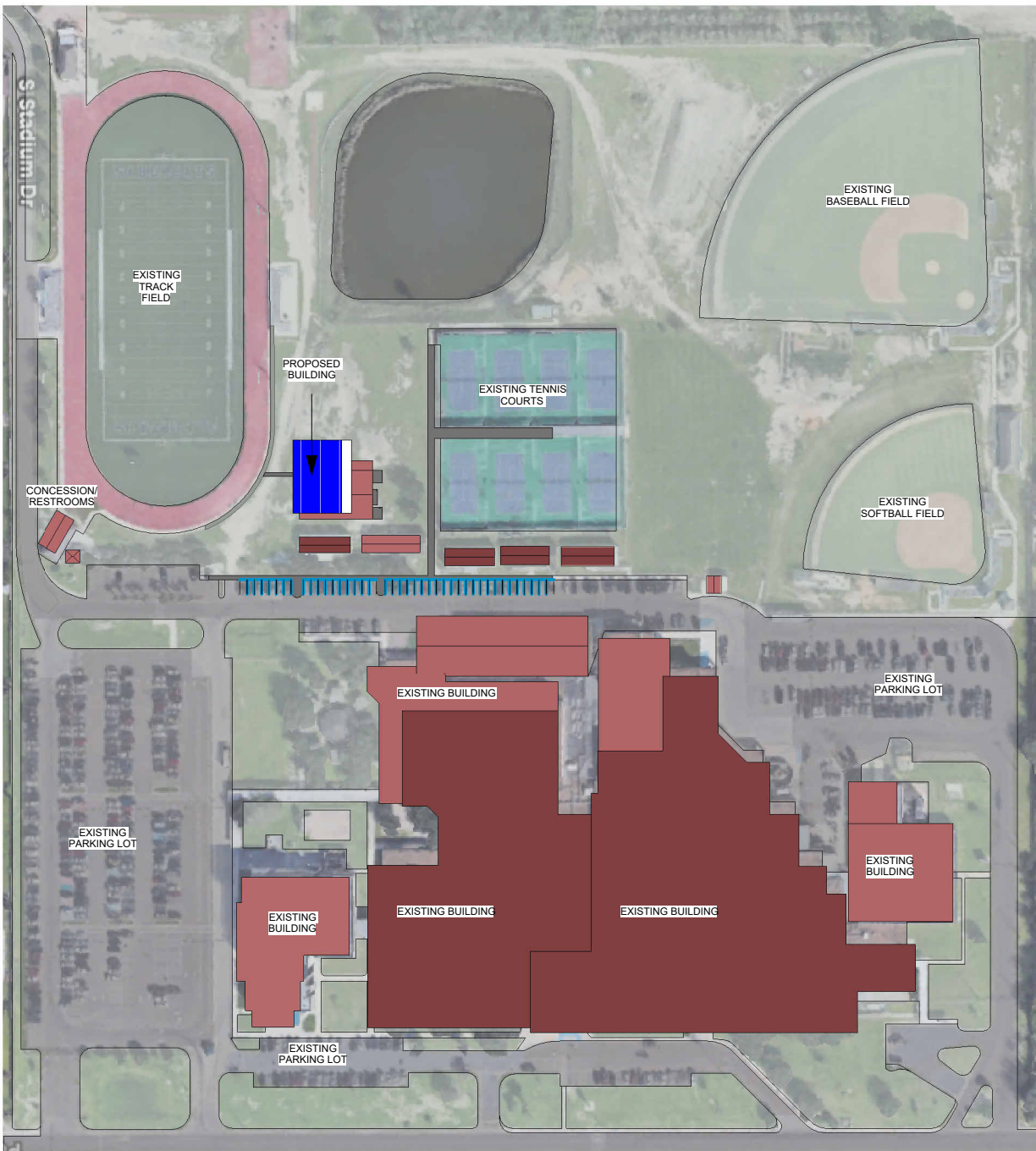
CODE REVIEW PLAN

G1.3



2 ENLARGE SITE PLAN
3/64" = 1'-0"

ROBERT VELA HIGH SCHOOL



1 OVERALL SITE PLAN
1" = 200'-0"

GENERAL NOTES:

1. OWNER WILL PROVIDE SOILS TESTS PRIOR TO FOUNDATION WORKS.
2. PROVIDE SIDEWALK AS PART OF BASE BID.
3. FOR UTILITIES, RE: MEP & CIVIL
4. WARNING:
CONTACT AEP FOR ELECTRICAL SERV. & CITY OF EDINBURG FOR WATER & SEWER UTILITIES. CONTRACTOR TO VERIFY EXISTING UTILITIES
5. ALL CONSTRUCTION AND MATERIALS FOR DRAINAGE, GRADING AND PAVING TO BE IN ACCORD WITH "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION".
6. CONTRACTOR IS RESPONSIBLE FOR ALL HORIZONTAL AND VERTICAL CONTROL FOR CONSTRUCTION.
7. CONTRACTOR IS RESPONSIBLE FOR PAYING ANY FEES FOR PERMITS AS REQUIRED FOR THIS CONSTRUCTION
8. CONTRACTOR TO SET CONTROL GRADES AT 25' INTERVALS ALONG ALL PAVING FLOW LINES
9. ANY DAMAGE TO EXISTING UTILITIES BY CONTRACTOR TO BE FIXED
10. PROVIDE JOB SIGN RE:
11. ALL SOIL PLACED ONTO SITE IS TO BE COMPACTED TO 80% DENSITY, EXCEPT UNDER ANY PAVING COMPACTION IS TO BE 95%, U.N.O.
12. ALL PIPES SLEEVES SHALL BE SCH 40 PVC. AND FURNISHED IN PLACE BY THE CONTRACTOR BEFORE PAVING.
13. 6" CONC. CURB & 12" GUTTER
14. CONTRACTOR TO PROVIDE A STAGING AREA TO PROVIDE FENCING FOR CONSTRUCTION AREA

SITE NOTES:

1. MAXIMUM SLOPE AT SIDEWALK IS NOT TO EXCEED 1:20 (5%) ALONGSIDE AND 1:50 (2%) ACROSS.
2. SITE DRAINAGE SHALL NOT BE DIRECTED TOWARD ADJACENT PROPERTIES.
3. BUILDING PAD ELEVATION TO BE SET BASED ON THE AREA SURVEY AND THE APPLICABLE FLOOD ZONE.
4. VERIFY LOCATION OF SITE IMPROVEMENTS IN RELATION TO BUILDING, PROPERTIES TO BUILDING, PROPERTY LINES AND EASEMENTS.

ADA NOTES:

1. ALL SIDEWALKS AND COVERED WALKWAYS SHALL HAVE 1:50 MAXIMUM CROSS SLOPE SIDEWALKS OR COVERED WALKWAYS THAT MUST HAVE SLOPES GREATER THAN 1:20 SHALL HAVE HANDRAILS ON BOTH SIDES. HANDRAILS SHALL BE 34" TO TOP A.F.F. THERE SHALL BE NO ABRUPT CHANGE IN ELEVATION ALONG ACCESSIBLE ROUTES AT SIDEWALKS AND COVERED WALKWAYS.
2. CURB RAMP SLOPE SHALL BE 1:20 MAXIMUM WITH 1:10 FLARED SIDES AND SHALL BE TEXTURED. PAINT WITH A LIGHT REFLECTIVE PAINT. PARALLEL CURB RAMP SLOPE SHALL BE 1:12 MAXIMUM & TEXTURED. PAINT WITH A LIGHT REFLECTIVE PAINT. ALL CURB RAMPS HAVE A LANDING AT TOP & BOTTOM. LANDINGS SHALL HAVE A 1:50 MAXIMUM SLOPE IN ANY DIRECTION.
3. STRIPED ACCESS AISLES AND ACCESSIBLE PARKING SHALL HAVE A MAXIMUM CROSS SLOPE IN ALL DIRECTIONS OF 1:50.
4. ALL GRADING SHALL BE DONE TO DRAIN WATER AWAY FROM BUILDINGS.
5. ALL EXTERIOR ALCOVES SHALL HAVE A 1:50 MAXIMUM SLOPE AND SHALL HAVE NO DROPS AT DOORS NOR AT CONNECTION SIDEWALKS.
6. REFER TO CIVIL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR CONTRACTING ARCHITECT IN CASE OF DISCREPANCIES AND COORDINATING WITH CIVIL ENGINEER PRIOR TO PROCEEDING.
7. ALL EXTERIOR DOORS SHALL HAVE A LEVEL AREA IN FRONT OF THE DOOR WITH A 1:50 MAXIMUM SLOPE IN ALL DIRECTIONS. THE AREA SHALL BE A MINIMUM OF 5 FT. IN THE DIRECTIONS OF TRAVEL BY THE WIDTH OF THE SIDEWALK.



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801 E CANTON
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TX 78539

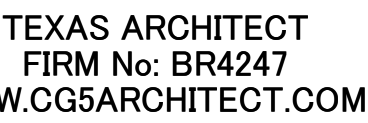
CLIENT:
ECISD

REVISION:		
No.	Description	Date
1	ASI 1	5/28/2025

PROJECT #: 25-030101
DRAWN BY: EC
CHECKED BY: CG3
DATE: 5/28/2025

SITE PLAN

A0.1



6-4-2025



REGISTERED ARCHITECT
JOSE C GARCIA III
22658
STATE OF TEXAS

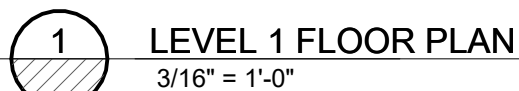
ROBERT VELA
HIGH SCHOOL

CLIENT:
DINBURG CISD

b.	Description	Date
	ASI 1	5/28/2025

**FLOOR PLAN
BASE BID**

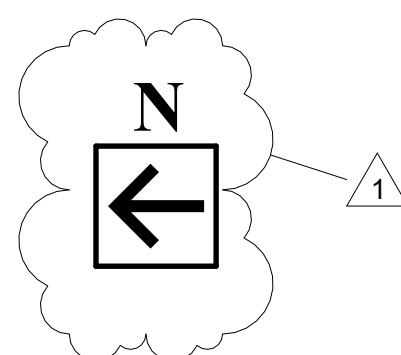
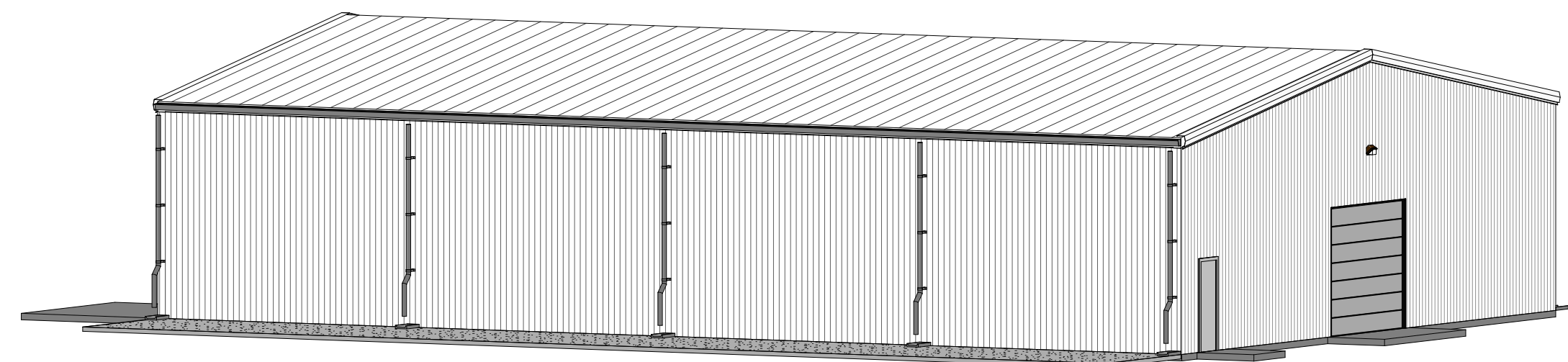
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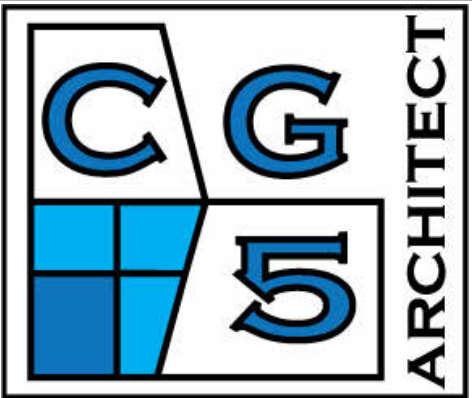
- 1 3 5/8" METAL STUD FURRING WALL WITH 1/2" OSB BOARD OR EQUAL PLYWOOD SHEATHING TO 8'-0" AFF TYPICAL, PAINTED, PROVIDE CAP AT TOP OF FURRING WALL
- 2 WRESTLING MAT ACCORDING TO NCAA REGULATIONS 42' X 42' BY OWNER
- 3 CONCRETE SPLASH BLOCKS

ROOM SCHEDULE					
ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
MULTIPURPOSE AREA	F-1	B-1	W-1	C-1	
STORAGE					

FLOOR:	F-1	SEALED CONCRETE FLOOR, TRANSPARENT
BASE:	B-1	4" RUBBER BASE, ROPE 700 SERIES 4" THERMOPLASTIC, RUBBER WALL COVE BASE
WALL:	W-1	OSB BOARD OR EQUAL PLYWOOD SHEATHING TO 8'-0" OSB PAINTED, FINAL COLOR SELECTED BY OWNER
CEILING:	C-1	OPEN STRUCTURE, ONLY STRUCTURAL FRAME PAINTED



1. THE CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS, SPECIFICATIONS, DIMENSIONS AND SITE CONDITIONS PRIOR TO BEGINNING ANY WORK AND REPORT ANY INCONSISTENCIES OR DISCREPANCIES TO THE ARCHITECT IMMEDIATELY FOR RESOLUTION DURING THE Q&A PERIOD OF THE BID PHASE, AND AT THE LATEST BEFORE BEGINNING CONSTRUCTION.
2. THE DRAWINGS AND SPECIFICATIONS ARE CORRELATIVE AND HAVE EQUAL AUTHORITY AND PRIORITY. BASE DISAGREEMENTS IN THEMSELVES OR IN EACH OTHER ON THE MOST EXPENSIVE COMBINATION OF QUANTITY AND QUALITY OF WORK INCIDED.
3. ITEMS SPECIFICALLY MENTIONED IN THE SPECIFICATIONS BUT NOT SHOWN ON THE DRAWINGS OR ITEMS SHOWN ON THE DRAWINGS BUT NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS SHALL BE PROVIDED AS IF THEY WERE BOTH SPECIFIED AND SHOWN IN THE DRAWINGS.
4. ALL MINOR DETAILS OF WORK WHICH ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS, AS WELL AS SUCH ITEMS WHICH ARE NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS, BUT ARE NECESSARY FOR THE PROPER COMPLETION OF THE WORK, SHALL BE CONSIDERED AS INCIDENTAL AND AS BEING PART OF AND INCLUDED WITH THE WORK FOR WHICH PRICES ARE GIVEN IN THE PROPOSAL, AND NO EXTRA COMPENSATION SHALL BE ALLOWED FOR THE PERFORMANCE THEREOF.
5. ALL FLOOR PLAN DIMENSIONS ARE TO FINISH FACE OF WALL. DO NOT SCALE DRAWINGS. WHERE DIMENSIONS ARE NOTED "AS CLEAR" DIMENSION SHALL BE FROM FINISH TO FINISH.
6. CASEWORK, PLUMBING FIXTURES, TOILET PARTITIONS, AND OTHER FIXTURES AND EQUIPMENT ARE DIMENSIONED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE.
7. ALL SPACES WITH FLOOR DRAINS - SLOPE NOT TO EXCEED 2% (ONE IN - FIFTY) IN ANY DIRECTION. COORDINATE ALL FLOOR DRAINS WITH PLUMBING DRAWINGS PRIOR TO ANY ROUGH-IN AND CONCRETE PLACEMENT.
8. DIMENSIONS NOTED AS "FIELD VERIFY" SHALL BE CHECKED AT THE SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT BEFORE INCORPORATING INTO THE WORK.
9. DIMENSIONS NOTED AS "CLEAR" REQUIRE SPECIFIC COORDINATION BETWEEN DISCIPLINES AND/OR MANUFACTURERS.
10. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE. ALL FLOOR FINISH ELEVATION CHANGES SHALL HAVE THRESHOLDS OR REDUCERS STRIPS AS SPECIFIED.
11. OPEN EXTERIOR JOINTS AROUND DOOR AND WINDOW FRAMES, BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF, BETWEEN WALL PANELS, AT WALL AND ROOF PENETRATIONS AND ANY OTHER BUILDING ENVELOPE PENETRATION SHALL BE SEALED, CALKED AND/OR WEAR-STRIPPED TO PREVENT OR LIMIT AIR, MOISTURE AND VAPOR PENETRATION. USE ONLY SPECIFIED MANUFACTURER APPROVED MATERIALS AS DIRECTED BY MATERIAL MANUFACTURERS.
12. EFFECTIVELY ISOLATE ALL DISSIMILAR METALS/ MATERIALS TO PREVENT CORROSION BY ELECTROLYTIC ACTION OR OTHER CAUSES AS RECOMMENDED BY THE RESPECTIVE PRODUCT MANUFACTURER OR SUPPLIER.
13. PROPERLY TERMINATE ALL MATERIALS WITH APPROPRIATE TRIM, FLASHING, SEALANT, EXPANSION CONTROL, ETC. AS INDICATED ON DRAWINGS OR AS REQUIRED FOR PROPER INSTALLATION AS ACCEPTED BY STANDARD BUILDING PRACTICE.
14. COORDINATE AND PROVIDE APPROPRIATE BLOCKING IN WALLS AS REQUIRED TO SECURE ALL EQUIPMENT, HANDRAILS, CASEWORK, ETC. AS REQUIRED. WOOD BLOCKING SHALL MEET CODE REQUIREMENTS.
15. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES AND HEIGHTS. COORDINATE ALL LIGHT FIXTURES, MECHANICAL DIFFUSERS, NOTIFICATION DEVICES, ETC. WITH M.E.P. DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR RESOLUTION.
16. COORDINATE HOUSEKEEPING PAD DIMENSIONS AND LOCATIONS WITH EQUIPMENT TO BE INSTALLED. ALL HOUSEKEEPING PADS SHALL BE A MINIMUM OF 4" TALL REINF. W/ #3 BARS AT 15" O.C.B.W. AND PROVIDE 1" (45- DEGREE) CHAMFERED EDGES UNLESS NOTED OTHERWISE.
17. ALL INTERIOR DOORS IN STUD WALL ASSEMBLIES SHALL BE SET A MINIMUM OF 4" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS FOR RESOLUTION.
18. SET ALL EXTERIOR DOOR THRESHOLDS IN FULL BED OF MANUFACTURER APPROVED SEALANT IN ACCORDANCE WITH MANUFACTURER INSTALLATION INSTRUCTIONS.
19. REFER TO CODES AND CONVENTIONS SHEET FOR MOUNTING HEIGHTS OF FIXTURES AND EQUIPMENT AS APPLICABLE. REFER TO THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS, ARCHITECTURAL BARRIERS DIVISION TEXAS ACCESSIBILITY STANDARDS FOR ALL MOUNTING HEIGHTS NOT LISTED AND FOR FURTHER CLARIFICATION AS NEEDED.
20. PROVIDE ROOM SIGNAGE AND DIRECTIONAL SIGNAGE AS PART OF BASE BID. REFER TO THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS, ARCHITECTURAL BARRIERS DIVISION TEXAS ACCESSIBILITY STANDARDS FOR ALL MOUNTING HEIGHTS NOT LISTED AND FOR FURTHER CLARIFICATION AS NEEDED.



TEXAS ARCHITECT
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SEAL:



ECISD HIGH
SCHOOL
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MULTI-USE
BUILDING
ECISD CSP 25-74

ROBERT VELA
HIGH SCHOOL

801 E Canton
Rd, Edinburg,
TX 78539

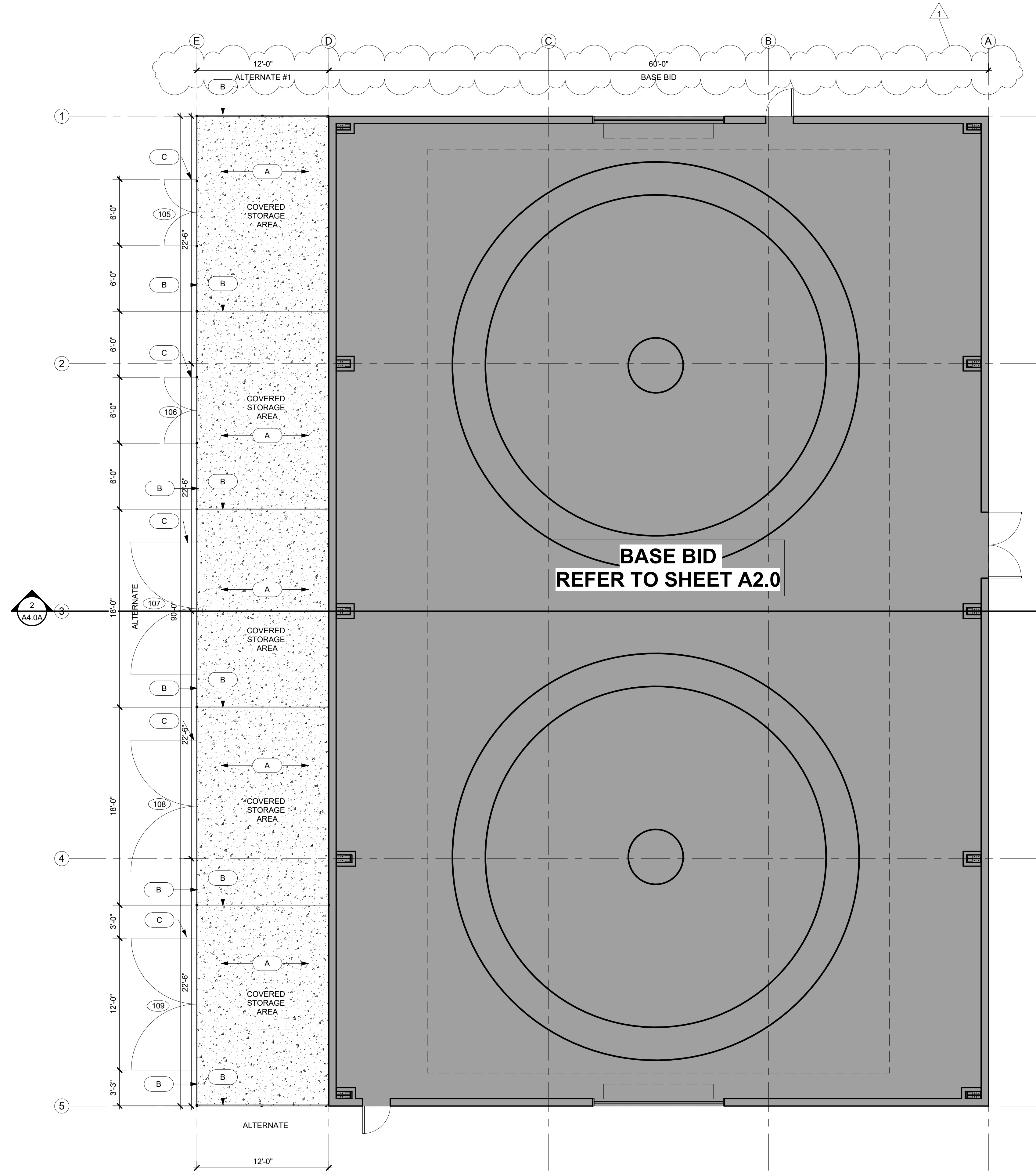
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No.	Description	Date
1	ASI 1	5/28/2025

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FLOOR PLAN
ALTERNATE

A2.0A



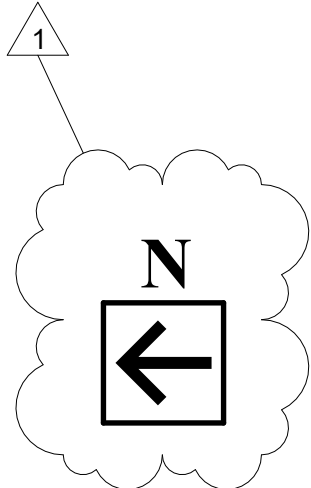
KEY NOTES:

- A CONCRETE FLAT WORK FLOOR AT CANOPY EXTENSION (ALTERNATE #2)
- B 12' HIGH CHAIN LINK FENCE AT CANOPY EXTENSION (ALTERNATE #3)
- C 8' HIGH CHAIN LINK DOUBLE SWING GATE AT CANOPY EXTENSION (ALTERNATE #3) REFER TO SHEET A7.0

FLOOR PLAN GENERAL NOTES

- THE CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS, SPECIFICATIONS, DIMENSIONS AND SITE CONDITIONS PRIOR TO BEGINNING ANY WORK AND REPORT ANY INCONSISTENCIES OR DISCREPANCIES TO THE ARCHITECT IMMEDIATELY FOR RESOLUTION DURING THE Q&A PERIOD OF THE BID PHASE, AND AT THE LATEST BEFORE BEGINNING CONSTRUCTION.
- THE DRAWINGS AND SPECIFICATIONS ARE CORRELATIVE AND HAVE EQUAL AUTHORITY AND PRIORITY. BASE DISAGREEMENTS IN THEMSELVES OR IN EACH OTHER ON THE MOST EXPENSIVE COMBINATION OF QUANTITY AND QUALITY OF WORK INDICATED.
- ITEMS SPECIFICALLY MENTIONED IN THE SPECIFICATIONS BUT NOT SHOWN ON THE DRAWINGS OR ITEMS SHOWN ON THE DRAWINGS BUT NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS SHALL BE PROVIDED AS IF THEY WERE BOTH SPECIFIED AND SHOWN IN THE DRAWINGS.
- ALL MINOR DETAILS OF WORK WHICH ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS, AS WELL AS SUCH ITEMS WHICH ARE NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS, BUT ARE NECESSARY FOR THE PROPER COMPLETION OF THE WORK, SHALL BE CONSIDERED AS INCIDENTAL AND AS BEING PART OF AND INCLUDED WITH THE WORK FOR WHICH PRICES ARE GIVEN IN THE PROPOSAL AND NO EXTRA COMPENSATION SHALL BE ALLOWED FOR THE PERFORMANCE THEREOF.
- ALL FLOOR PLAN DIMENSIONS ARE TO FINISH FACE OF WALL. DO NOT SCALE DRAWINGS. WHERE DIMENSIONS ARE NOTED "AS CLEAR" DIMENSION SHALL BE FROM FINISH TO FINISH.
- CASEWORK, PLUMBING FIXTURES, TOILET PARTITIONS, AND OTHER FIXTURES AND EQUIPMENT ARE DIMENSIONED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE.
- ALL SPACES WITH FLOOR DRAINS - SLOPE NOT TO EXCEED 2% (ONE - IN - FIFTY) IN ANY DIRECTION. COORDINATE ALL FLOOR DRAINS WITH PLUMBING DRAWINGS PRIOR TO ANY ROUGH-IN AND CONCRETE PLACEMENT.
- DIMENSIONS NOTED AS "FIELD VERIFY" SHALL BE CHECKED AT THE SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT BEFORE INCORPORATING INTO THE WORK.
- DIMENSIONS NOTED AS "CLEAR" REQUIRE SPECIFIC COORDINATION BETWEEN DISCIPLINES AND/OR MANUFACTURERS.
- ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE. ALL FLOOR FINISH ELEVATION CHANGES SHALL HAVE THRESHOLDS OR REDUCERS STRIPS AS SPECIFIED.
- OPEN EXTERIOR JOINTS AROUND DOOR AND WINDOW FRAMES, BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF, BETWEEN WALL PANELS, AT WALL AND ROOF PENETRATIONS AND ANY OTHER BUILDING ENVELOPE PENETRATION SHALL BE SEALED, CAULKED AND/OR WEATHER-STRIPPED TO PREVENT OR LIMIT AIR, MOISTURE AND VAPOR PENETRATION. USE ONLY SPECIFIED MANUFACTURER APPROVED MATERIALS AS DIRECTED BY MATERIAL MANUFACTURERS.
- EFFECTIVELY ISOLATE ALL DISSIMILAR METALS/ MATERIALS TO PREVENT CORROSION BY ELECTROLYTIC ACTION OR OTHER CAUSES AS RECOMMENDED BY THE RESPECTIVE PRODUCT MANUFACTURER OR SUPPLIER.
- PROPERLY TERMINATE ALL MATERIALS WITH APPROPRIATE TRIM, FLASHING, SEALANT, EXPANSION CONTROL, ETC. AS INDICATED ON DRAWINGS OR AS REQUIRED FOR PROPER INSTALLATION AS ACCEPTED BY STANDARD BUILDING PRACTICE.
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LEVEL 1 FLOOR PLAN
ALTERNATE
3/16" = 1'-0"





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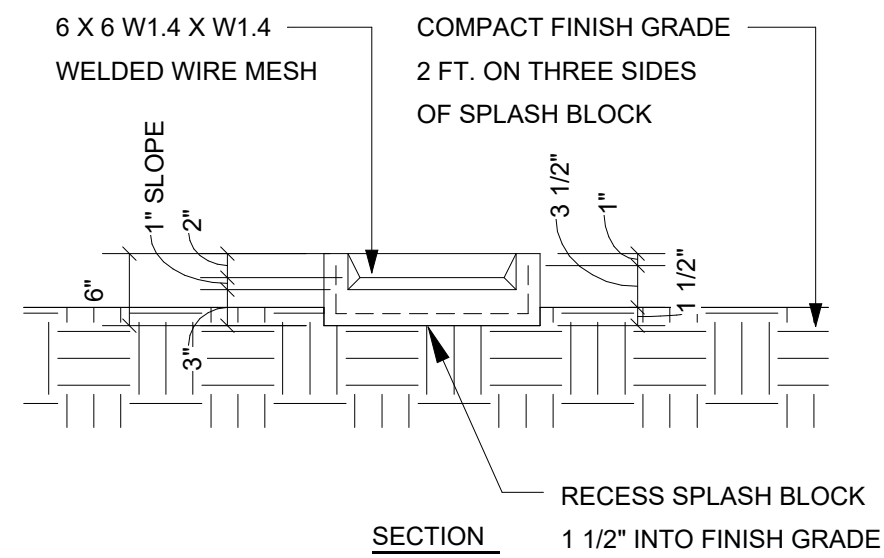
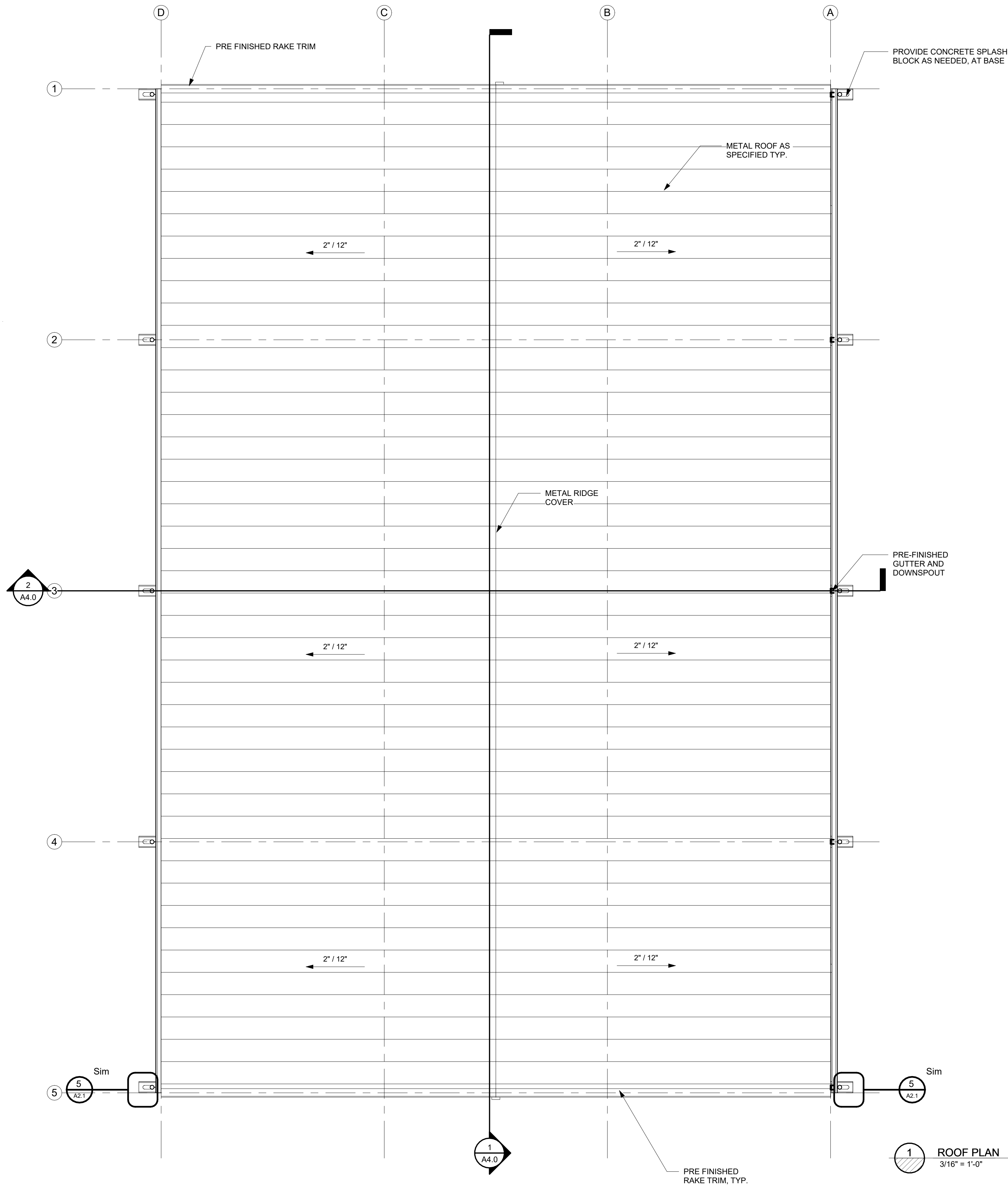
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ROOF PLAN
BASE BID

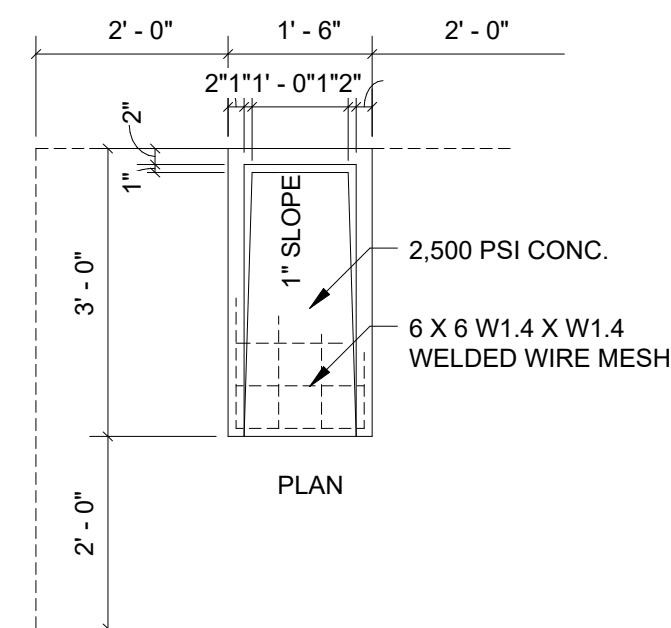
A2.1

GENERAL ROOF NOTES:

1. PROVIDE ALL REQUIRED UTILITY / STRUCTURAL COMPONENTS AND/OR CONNECTIONS FOR THE FUNCTIONAL USE OF ALL CONTRACTOR SUPPLIED EQUIPMENT OR APPLIANCES, REGARDLESS OF ANY OMISSIONS OR INCONSISTENCIES ENCOUNTERED IN THE CONSTRUCTION DOCUMENTS.
2. THE WORD 'PROVIDE' SHALL MEAN 'FURNISH AND INSTALL COMPLETE AND READY TO USE.'
3. IF DISCREPANCIES APPEAR BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE HIGHER QUALITY, QUANTITY, AND PRICE SHALL SUPERSEDE.
4. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BECOME FAMILIAR WITH THE PROJECT AND THE ON-SITE / OFF-SITE CONDITIONS PRIOR TO BIDDING OR COMMENCING WORK.
5. ROOF SLOPES SHOWN ON DRAWING ARE GENERAL AND CONCEPTUAL ONLY. PROVIDE POSITIVE DRAINAGE TO ALL GUTTERS. VERIFY IN SHOP DRAWINGS. REFER TO STRUCTURAL DOCUMENTS FOR EXACT TOS/BOD ELEVATIONS.
6. PROVIDE CRICKETS (1/2"/FT. MIN. SLOPE) AT HIGH SIDE OF ALL MECHANICAL UNITS SMOKE VENTS, EXHAUST FANS & OTHER MISC. ROOF PENETRATIONS, TO SHED WATER AROUND & TO ENSURE POSITIVE ROOF DRAINAGE.
7. ALL EXPOSED FLASHING, COPING (IF APPLICABLE) AND THEIR ACCESSORIES SHALL BE AS SPECIFIED. PAINT ALL METAL FLASHING THAT IS NOT PRE-FINISHED (TYP) AND VISIBLE FROM THE GROUND.
8. ALL PITCH PANS SHALL BE SOLDERED CLAD METAL AND RECEIVE EITHER MECHANICALLY ATTACHED GOOSENECK OR METAL BONNETS. METAL BONNETS SHALL BE SECURED WITH CLAMPING RING AND SEALANT. SPECIAL CARE GIVEN TO WASH ALL METAL PRIOR TO INSTALLATION.
9. PROVIDE NEW CONCRETE SPLASH BLOCKS AT ALL DOWNSPOUT DISCHARGE LOCATIONS.
10. ALL EQUIPMENT CURBS TO BE SET OR RAISED AS NECESSARY TO MAINTAIN 10" MINIMUM HEIGHT ABOVE FINISHED ROOF SURFACE.
11. MECHANICAL, ELECTRICAL, AND PLUMBING ROOF EQUIPMENT SHOWN ON THIS PLAN IS FOR GENERAL ARCHITECTURAL INFORMATION ONLY. REFER TO M.E.P. DOCUMENTS FOR ROOFTOP EQUIPMENT NOT SHOWN, AND FOR ADDITIONAL REQUIREMENTS AND COORDINATION.
12. REFER TO M.E.P. DOCUMENTS FOR THE PIPE SUPPORT LOCATIONS, TYPE, AND DETAILS. PAD SHALL BE MIN 2" WIDER THAN SUPPORT IN ALL DIRECTIONS.
13. GUTTERS SHALL BE PRE-FINISHED GALVANIZED STEEL. SIZE PER ROOF PLAN, UNO. PROVIDE PRE-FINISHED 1/4"x1 1/2" GALVANIZED STEEL BENT PLATE BRACKETS AND PRE-FINISHED 1" GALVANIZED STEEL SPACERS AT 36" O.C. MAX. STAGGER WITH EACH OTHER AT 18" O.C.
14. PROVIDE PRE-FINISHED GUTTER EJ'S 30'-0" O.C. MAX.
15. DOWNSPOUTS SHALL BE 4"x6" PRE-FINISHED GALVANIZED STEEL UNO AS INDICATED ON ROOF PLAN. PROVIDE PRE-FINISHED 2" GALVANIZED STEEL HANGERS AT 36" O.C. COORDINATE LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.



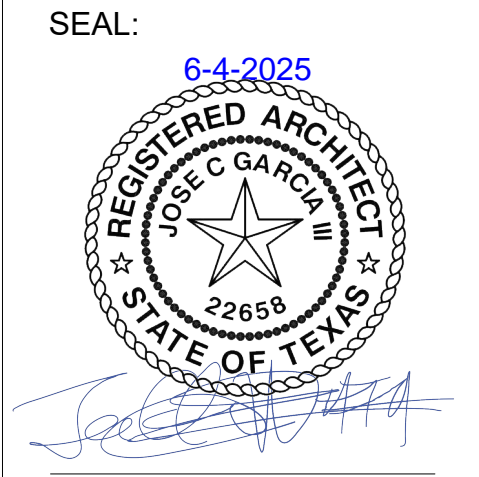
4 SPLASH
3/4" = 1'-0"



5 SPLASH GUARD
1/2" = 1'-0"



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ECISD CSP 25-74

ROBERT VELA
HIGH SCHOOL

801 E Canton
Rd, Edinburg,
TX 78539

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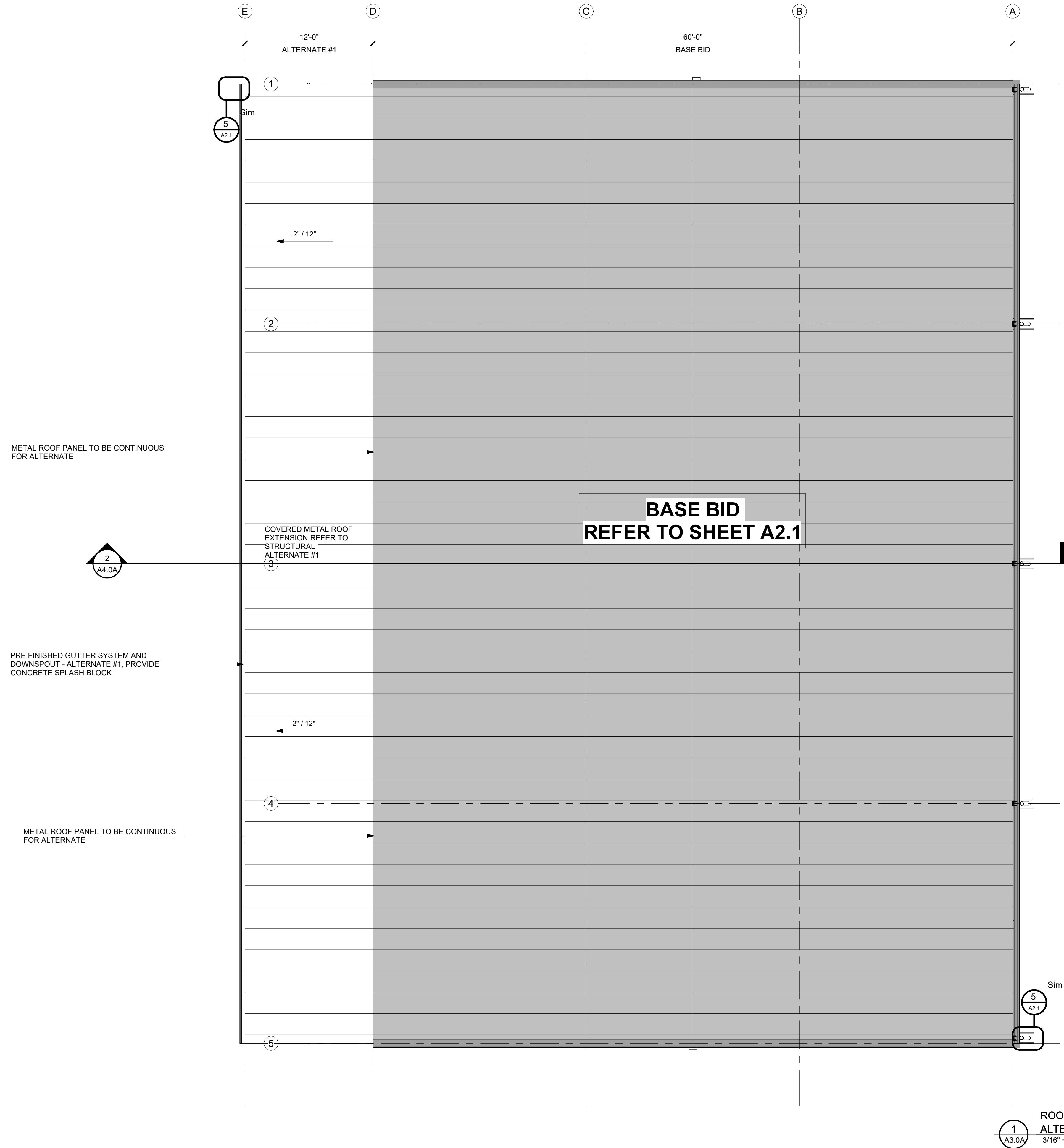
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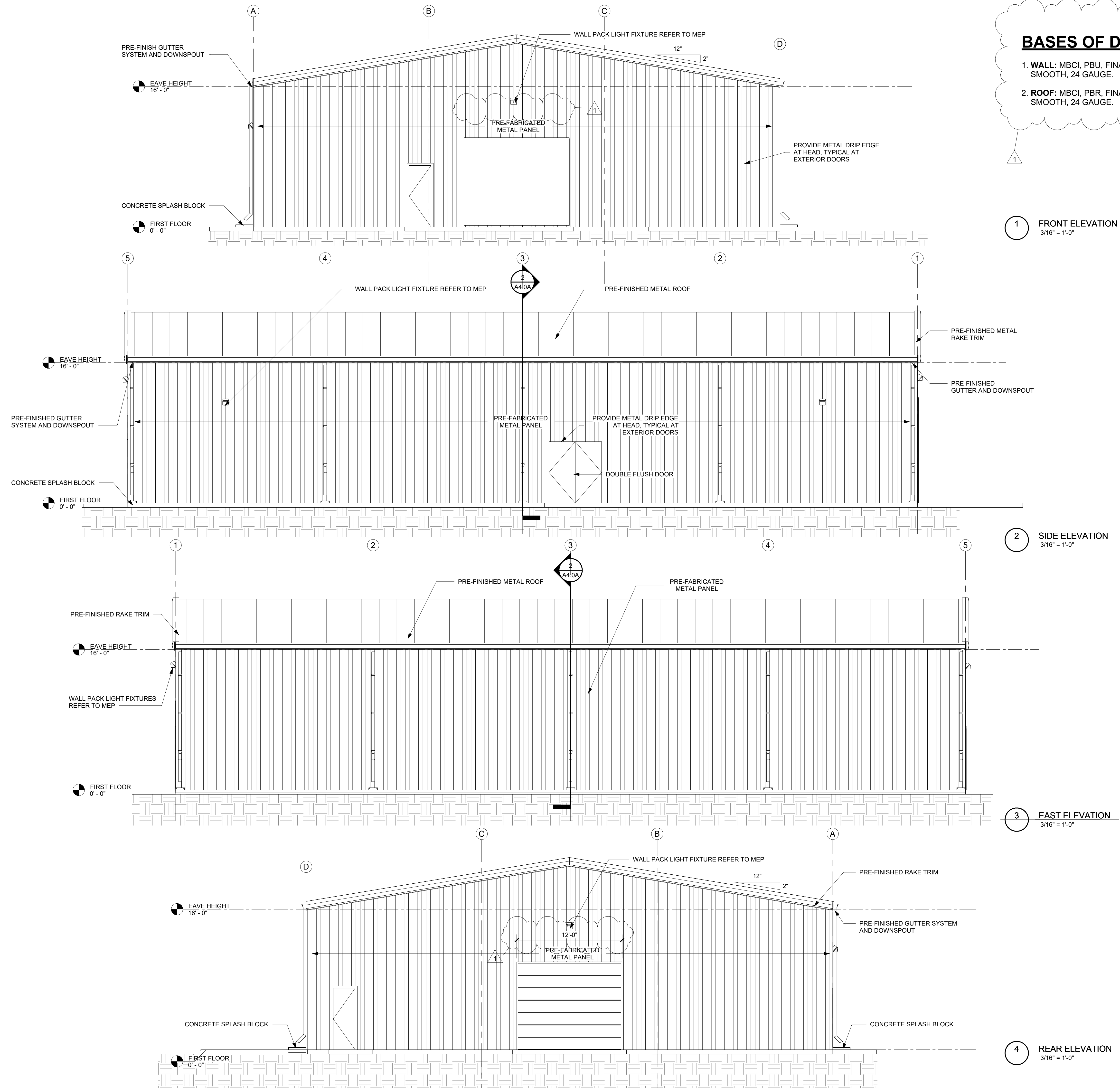
ROOF PLAN
ALTERNATE

A2.1A

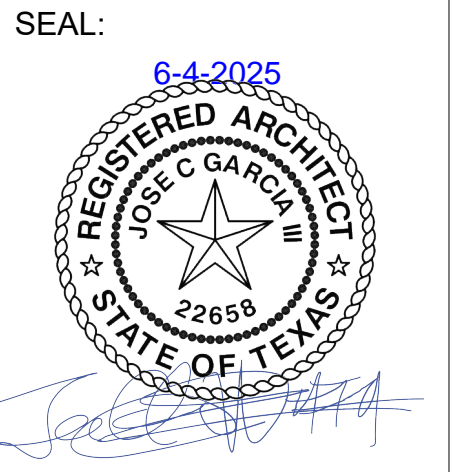
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ECISD HIGH
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ROBERT VELA
HIGH SCHOOL

801 E Canton
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EXTERIOR
ELEVATIONS
BASE BID

A3.0



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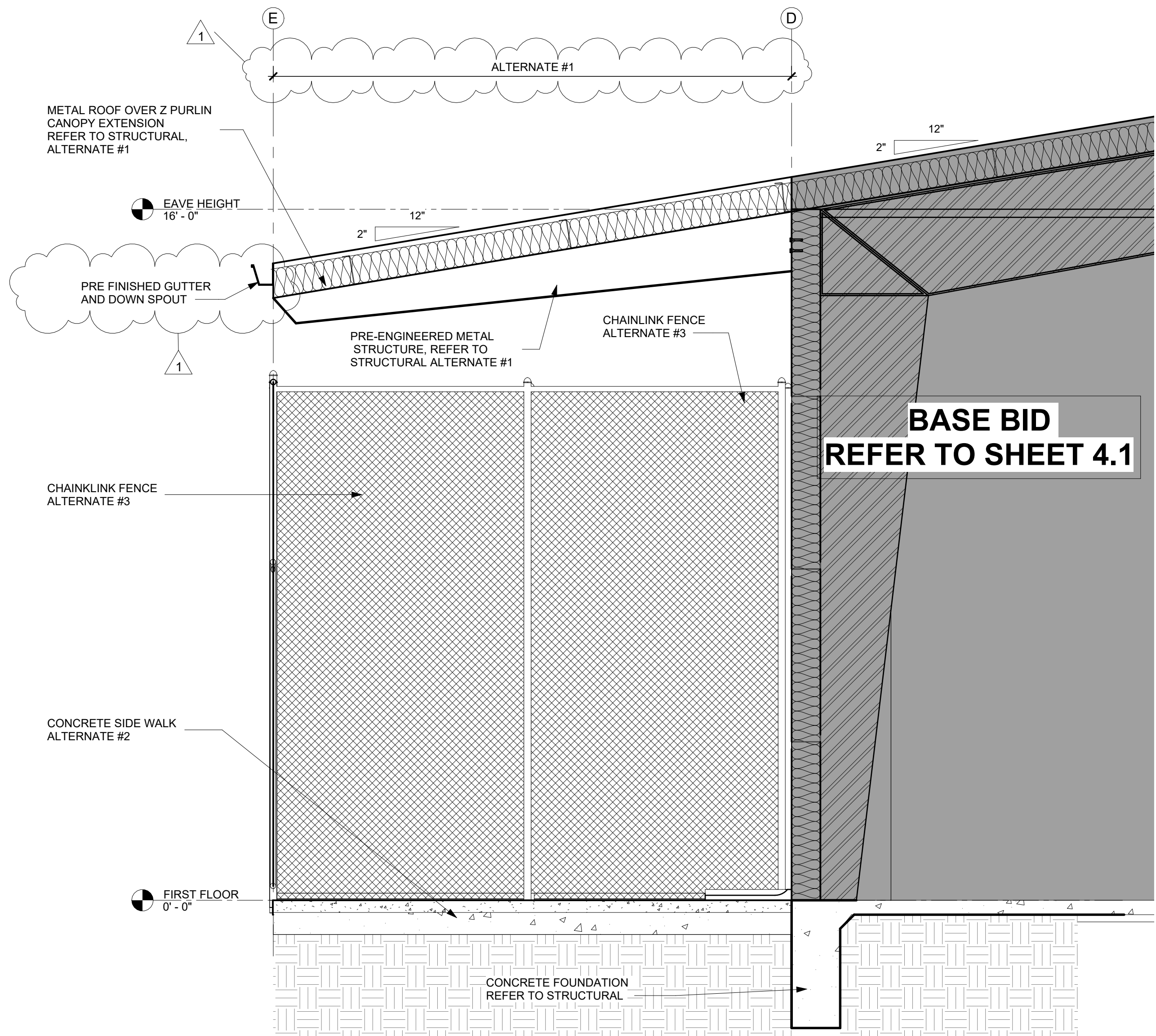
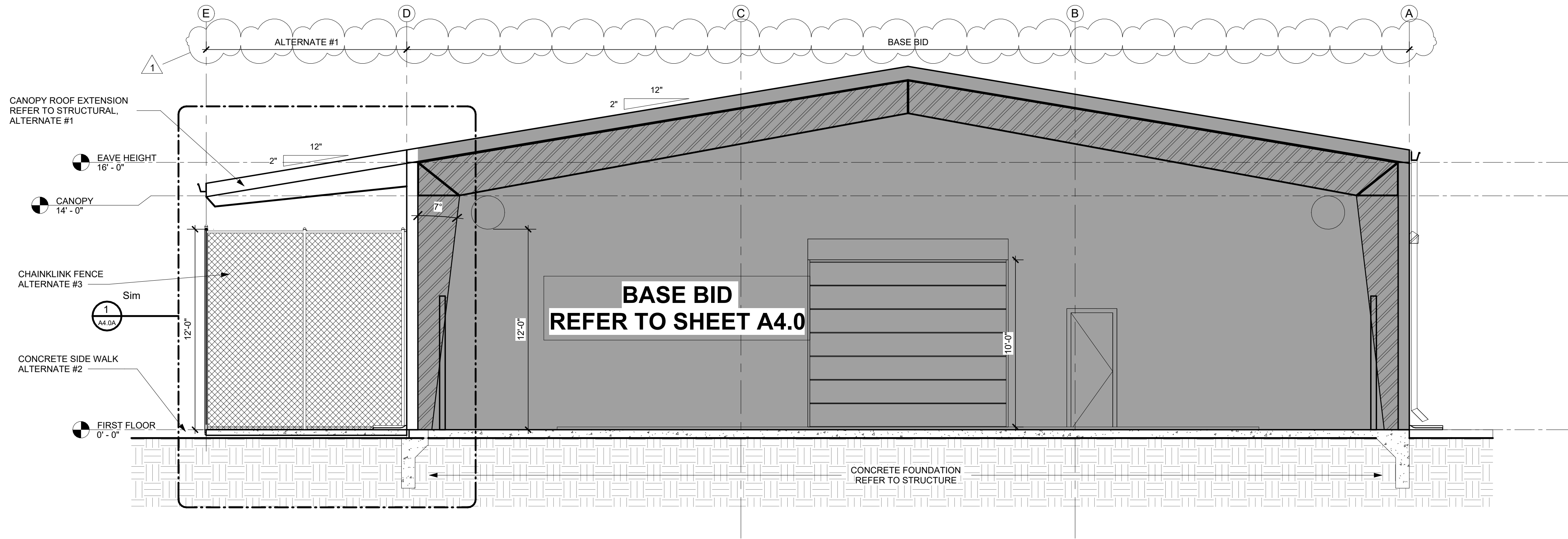
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BUILDING
SECTIONS
ALTERNATE

A4.0A





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ECISD HIGH SCHOOL
ATHLETIC MULTI-USE BUILDING
ECISD CSP 25-74

ROBERT VELA HIGH SCHOOL

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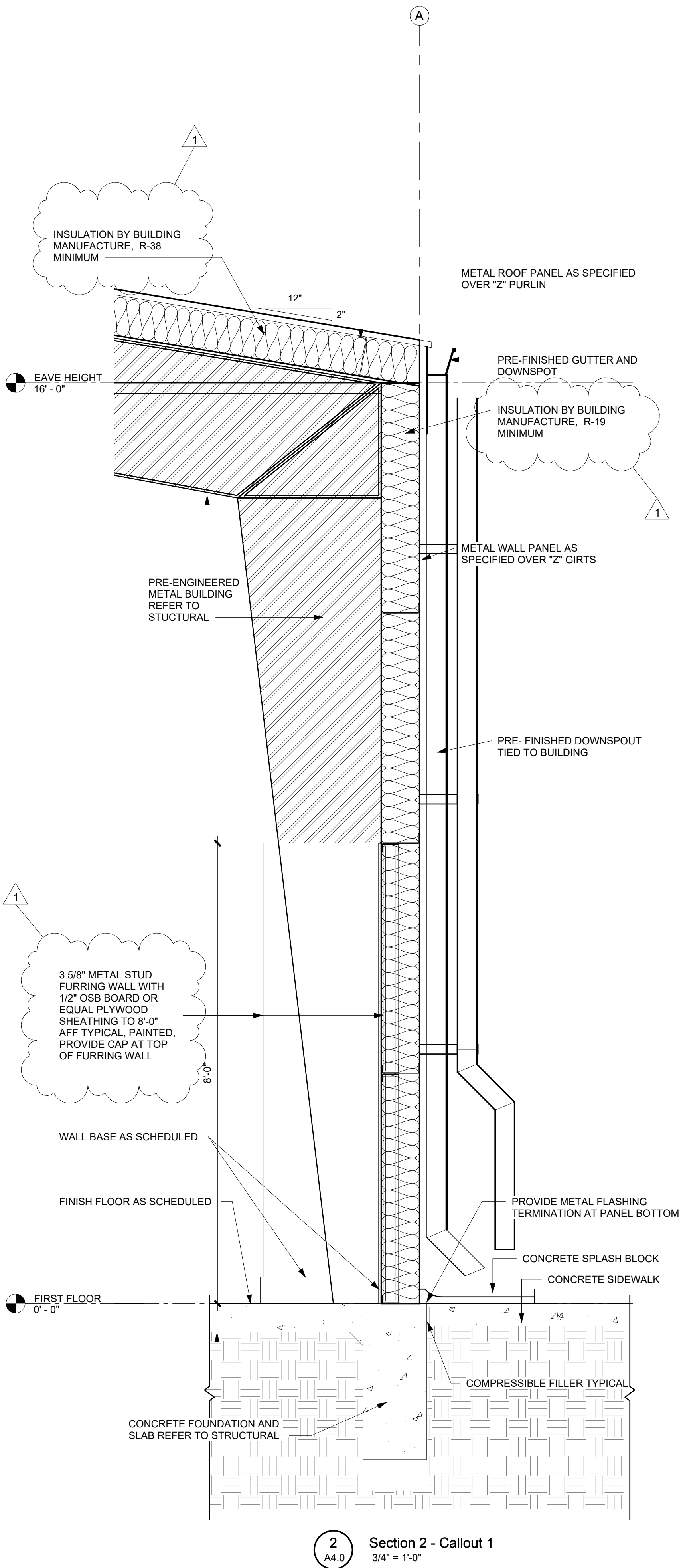
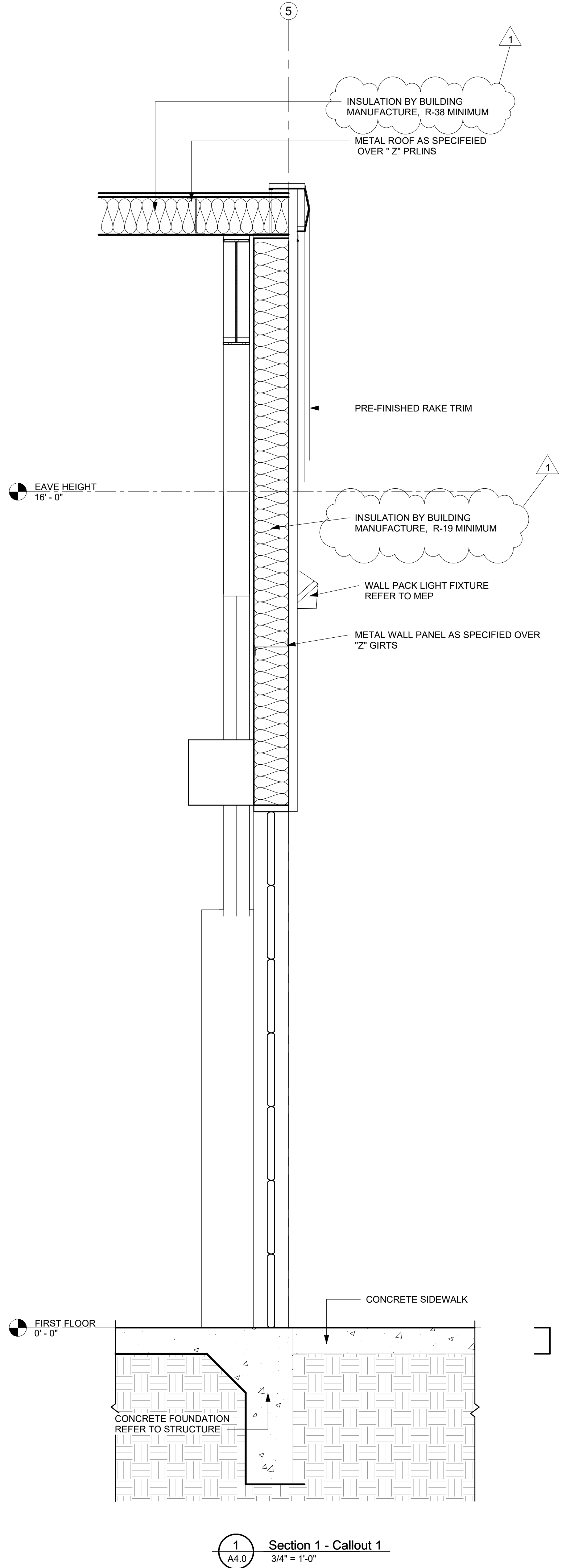
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WALL
SECTIONS AND
DETAILS BASE
BID

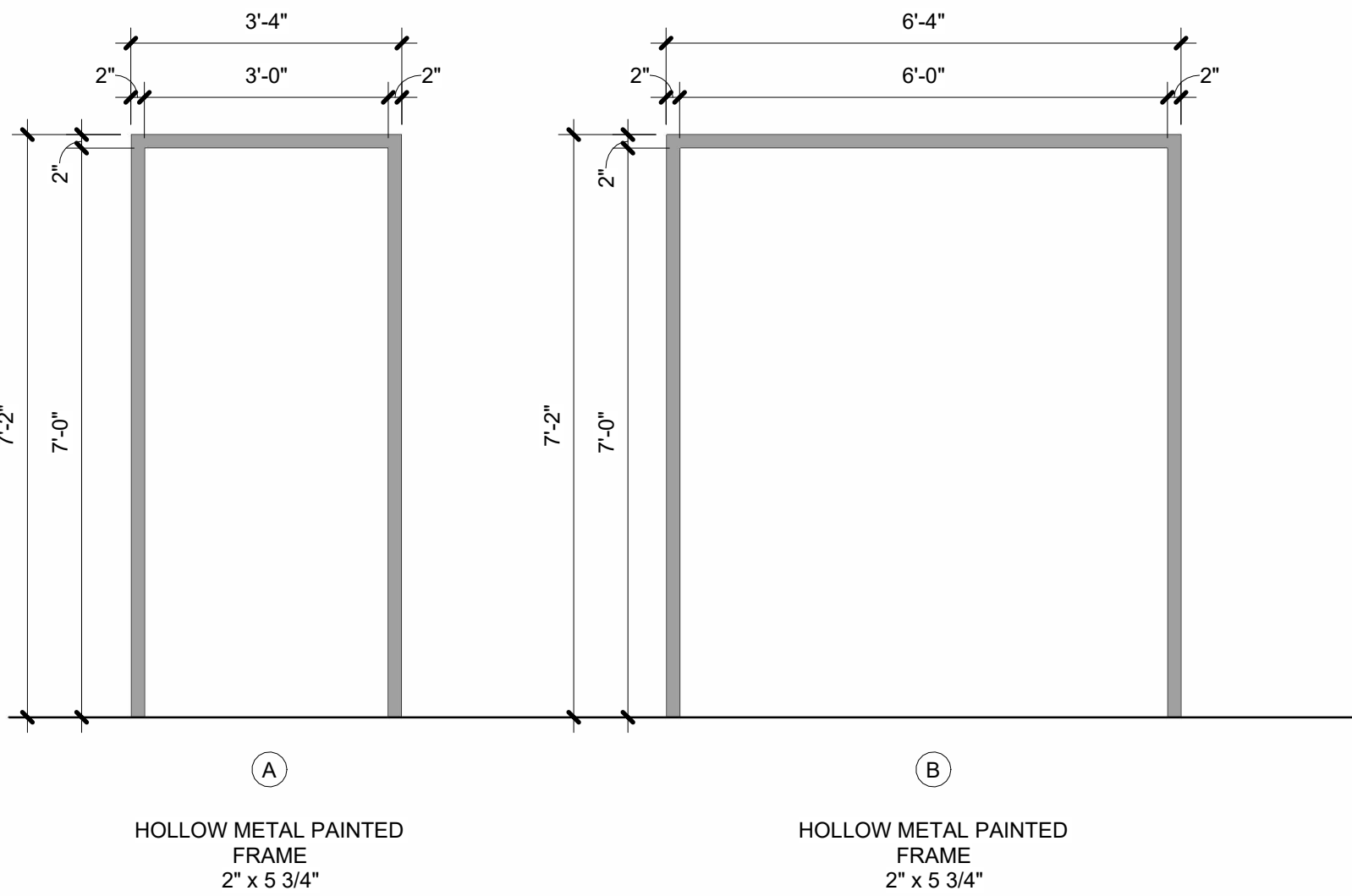
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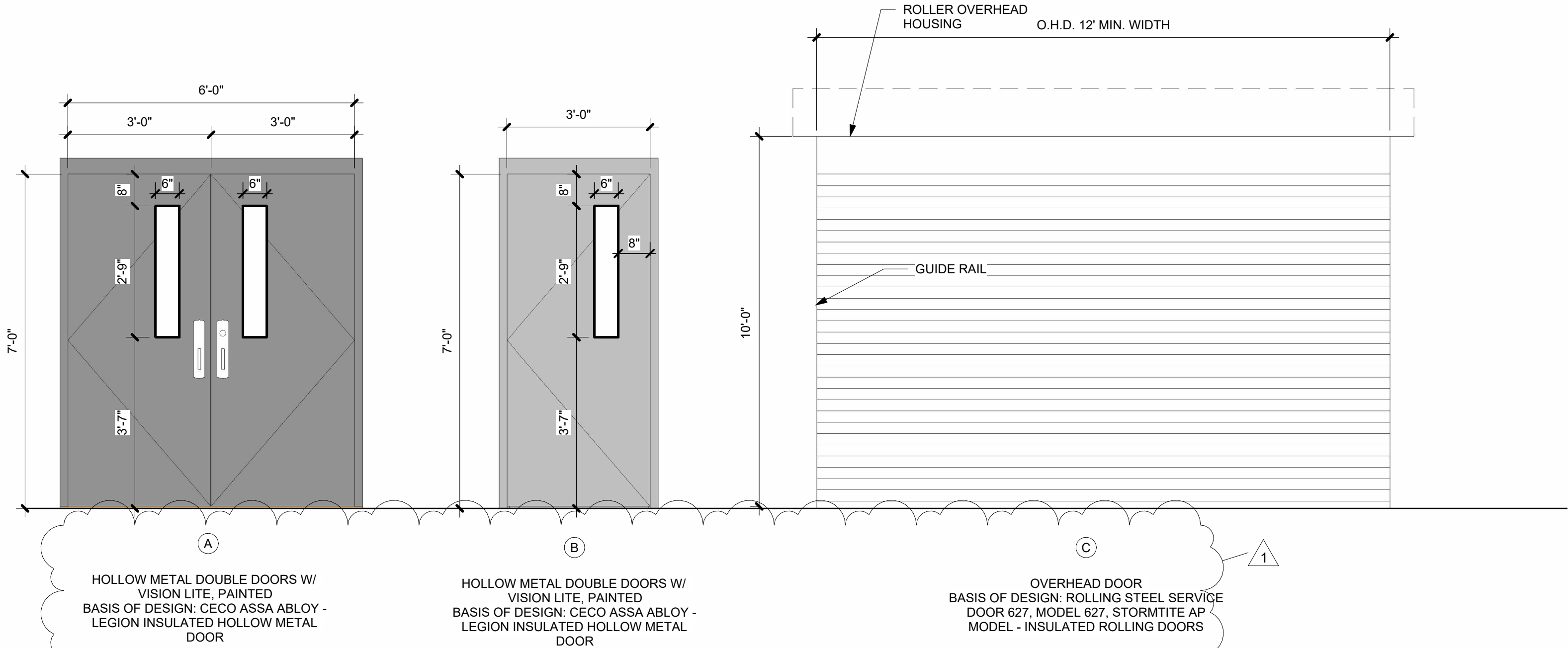
DOOR HARDWARE:

- DH1: DOORS:
6 - HINGES (BASIS OF DESIGN OR EQUAL); BEST DOOR HARDWARE PBB HINGES 4B81
1 - CENTER MULLION REMOVABLE
2 - THRESHOLDS
2 - PANIC DEVICE (BASIS OF DESIGN OR EQUAL); BEST DOOR HARDWARE PRECISION APEX 2100,
STANDARD, 1700C GRIP OR COMPATIBLE WITH ACCESS CONTROL, NO ALARM, DOOR SIZE AS SHOWN
ON PLAN, S300 STRIKE, 630 US32D
1 - WEATHER STRIPPING FOR DOUBLE DOOR (BASIS OF DESIGN OR EQUAL):
PEMKO PK55 - SELF ADHESIVE WEATHER SEAL GASKET
1 - RAIN GUARD FOR DOUBLE DOOR
2 - DOOR HOLD OPEN
2 - DOOR CLOSURES
- DH2: DOORS:
3 - HINGES (BASIS OF DESIGN OR EQUAL); BEST DOOR HARDWARE PBB HINGES 4B81
1 - KICK PLATE
1 - PANIC DEVICE (BASIS OF DESIGN OR EQUAL); BEST DOOR HARDWARE PRECISION APEX 2100,
STANDARD, 1700C GRIP OR COMPATIBLE WITH ACCESS CONTROL, NO ALARM, DOOR SIZE AS SHOWN
ON PLAN, S300 STRIKE, 630 US32D
1 - DOOR CLOSURE
1 - DOOR HOLD OPEN
- DH3: DOORS:
1 - RIM CYLINDER
ALL OTHER ACCESSORIES BY DOOR MANUFACTURERS
- DOOR HARDWARE GENERAL NOTES:
1. KEYS AS PER OWNER KEYING SYSTEM.
2. ALL HARDWARE TO BE MEDIUM TO HEAVY DUTY

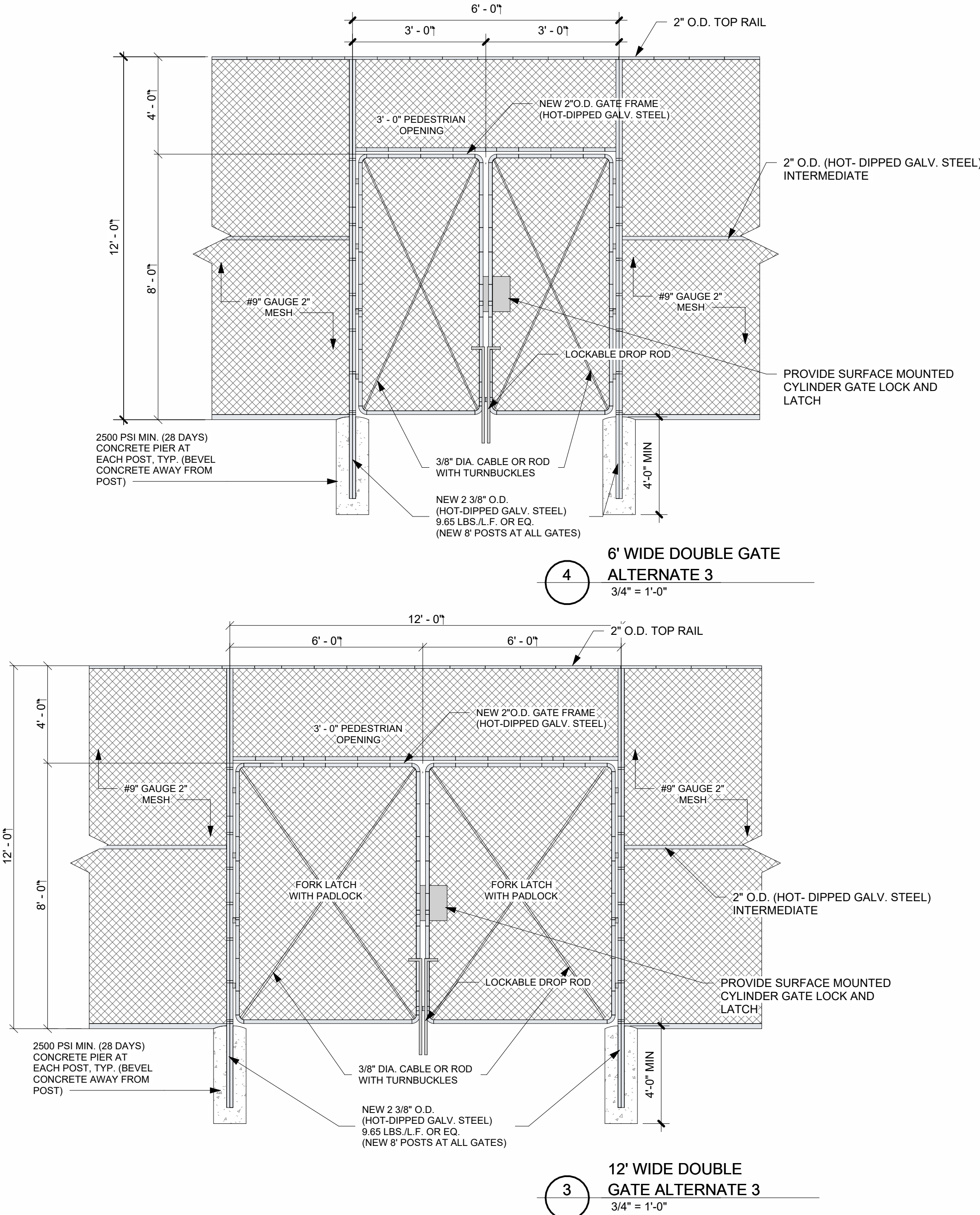
DOOR SCHEDULE								
MARK	LOCATION		TYPE DESCRIPTION	SIZE	DOOR MATERIAL	DOOR FRAME	DOOR HARDWARE	REMARKS
	FROM	TO		WIDTH x HEIGHT				
100	EXTERIOR	MULTIPURPOSE 100	B	3'-0" x 7'-0"	HOLLOW METAL	HOLLOW METAL	DH2	
101	EXTERIOR	MULTIPURPOSE 100	C	12'-0" x 10'-0"	METAL	METAL	-	INSULATED
102	EXTERIOR	MULTIPURPOSE 100	A	3'-0" x 7'-0" DOUBLE	HOLLOW METAL	HOLLOW METAL	DH1	
103	EXTERIOR	MULTIPURPOSE 100	B	3'-0" x 7'-0"	HOLLOW METAL	HOLLOW METAL	DH2	
104	EXTERIOR	MULTIPURPOSE 100	C	12'-0" x 10'-0"	METAL	METAL	-	INSULATED



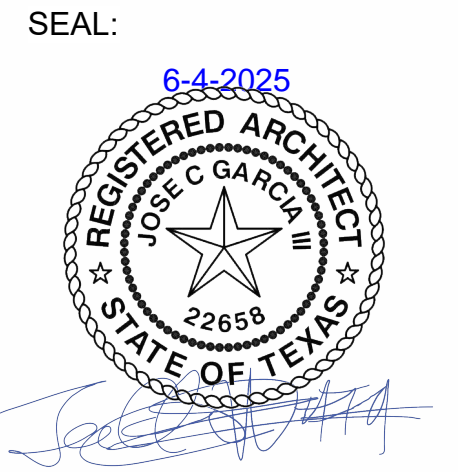
DOOR FRAME TYPES



DOOR TYPES



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DOOR
SCHEDULE

A7.0



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GENERAL
NOTES

ADDENDUM #2

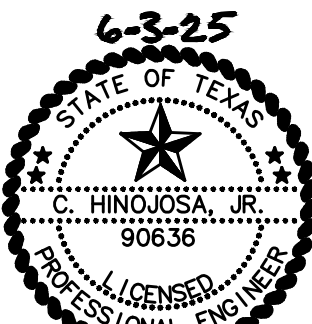
S1.0

ENGINEERING, LLC

TPFE FIRM No. F-8719

701 S. 15th STREET McALLEN, TX. 78501

(956) 687-5560



GENERAL

- THE NOTES AND SPECIFICATIONS PROVIDED ON THE STRUCTURAL DRAWINGS ARE EXCERPTS FROM THE RELATING PROJECT SPECIFICATIONS. THEY ARE NEITHER COMPLETE NOR DO THEY REPLACE THE CONTRACT SPECIFICATIONS.
- CODE: CONSTRUCTION SHALL CONFORM TO THE PROVISIONS OF THE 2021 INTERNATIONAL BUILDING CODE OF LATEST ADOPTION AND ALL STANDARDS REFERENCED THEREIN IN THEIR ENTIRETY, WITH ALL LOCALLY ADOPTED AMENDMENTS, REFERENCED THEREIN.
- MEANS AND METHODS: THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS AND METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS RELATING TO THE SPECIFIC STRUCTURE. ERECTION ITEMS ADDRESSED IN THE LATEST OSHA REGULATIONS.
- GENERAL DETAILS AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS. ALL WORK OR CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATION AND SAFETY REQUIREMENTS.

- UNLESS AUTHORIZED BY A FORMAL CHANGE ORDER, RESPONSES TO QUESTIONS AND RFI'S, COMMENTS MADE DURING THE REVIEW OF SUBMITTALS, AND DIRECTIVES PROVIDED IN ANY FORM BY THE ENGINEER TO THE CONTRACTOR DURING THE CONSTRUCTION PROCESS ARE INTENDED TO BE CLARIFICATIONS OF THE CONTRACT DOCUMENTS OR CORRECTIONS TO THE PERCEIVED INTERPRETATION OF THE INTENT OF CONTRACT DOCUMENTS BY THE CONTRACTOR. SUCH CLARIFICATIONS AND CORRECTIONS ARE NOT INTENDED TO REPRESENT A CHANGE IN COST OF THE PROJECT TO THE OWNER AND ARE CONSIDERED TO BE INFERRABLE FROM THE CONTENT OF THE CONTRACT DRAWINGS OR CONSISTENT WITH INDUSTRY STANDARDS OF CONSTRUCTION. IF THE CONTRACTOR DETERMINES THAT SUCH CLARIFICATIONS AND CORRECTIONS HAVE AN IMPACT ON THE COST OF THE PROJECT TO THE OWNER, THE CONTRACTOR SHALL SUBMIT A CHANGE ORDER REQUEST WITH DETAILED PRICING INFORMATION TO THE ARCHITECT BEFORE PURCHASING, DETAILING, FABRICATING OR INSTALLING ANY COMPONENT RELATED TO SUCH CLARIFICATIONS AND CORRECTIONS.

- DISCREPANCIES: THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS. UPON RECEIPT OF SUCH INFORMATION, THE ENGINEER WILL SEND WRITTEN INSTRUCTIONS TO ALL CONCERNED. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND WORK SHALL BE PERFORMED IN A MANNER AS DIRECTED BY THE ENGINEER.

- LOADS: IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING, AND FORMWORK, AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING THE CONSTRUCTION OF THIS BUILDING. EXCESS LOAD CAPACITY OF SLAB SHALL NOT EXCEED LOADS EQUIVALENT TO THE DESIGN SUPERIMPOSED LOADS LESS CONSTRUCTION DEAD AND LIVE LOADS. DESIGN SUPERIMPOSED LOADS INCLUDE LIVE LOAD, PARTITION LOAD, AND ANY OTHER LOAD NOT IN PLACE AT THE TIME OF SHORING. FLOORS ARE NOT DESIGNED TO SUPPORT FORMWORK AND WET CONCRETE. WEIGHT OF NEXT LEVEL CONTRACTOR SHALL DESIGN AND PROVIDE RE-SHORING TO PREVENT OVERSTRESSING THE STRUCTURE.

- EACUATION: THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT.

- OTHER TRADES: IT IS NOT THE INTENT THAT THE STRUCTURAL DRAWINGS BE VIEWED AS STAND ALONE DRAWINGS WITH RESPECT TO PROJECT DIMENSIONS OR ANY OTHER COMPONENT OF THE CONSTRUCTION THAT CAN AND MAY BE IDENTIFIED IN OTHER PARTS OF THE CONTRACT DOCUMENTS. IT REQUIRES THE ENTIRE SET OF CONTRACT DOCUMENTS TO PROPERLY CONSTRUCT THE STRUCTURE AS WELL AS OTHER COMPONENTS OF THE BUILDING. ANCHORS REQUIRED FOR ANCHORING MEP EQUIPMENT AND / OR PIPING ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL DETERMINE AND COORDINATE REQUIREMENTS FROM OTHER DISCIPLINES AND SHALL PROVIDE APPROPRIATE ALLOWANCES INTO THE BID. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE, ASSEMBLE, AND COORDINATE THE REQUIREMENTS OF ALL COMPONENTS OF THE CONTRACT DOCUMENTS TO PROPERLY IMPLEMENT THE REQUIREMENTS OF THE CONTRACT. SEE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF PIPES, VENTS, CHASES, DUCTS AND OTHER OPENINGS AND DETAILS NOT SHOWN ON THESE STRUCTURAL DRAWINGS. ALL DIMENSIONS ARE TO BE CHECKED AND VERIFIED WITH THE ARCHITECTURAL DRAWINGS.

- BRACING: THESE DRAWINGS ILLUSTRATE THE PRIMARY STRUCTURAL FRAME IN ITS COMPLETED FORM. TEMPORARY BRACING, PROPERLY DESIGNED UNDER THE SUPERVISION OF A LICENSED STRUCTURAL ENGINEER, SHALL BE PROVIDED AS REQUIRED TO HOLD ALL COMPONENTS OF THE STRUCTURE IN PLACE UNTIL FINAL SUPPORT IS BEINGULY ANCHORED.

- INSPECTIONS: ANY INSPECTIONS, SPECIAL OR OTHERWISE, THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR THESE PLANS, SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY. JOB SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE, OR SUBSTITUTE, INSPECTIONS UNLESS SPECIFICALLY CONTRACTED FOR.

- THE LOCATION AND DIMENSIONS OF ALL OPENINGS, DEPRESSIONS, RECESSES, SLOPES, BLOCCOUTS, CURBS, AND EMBEDMENTS SHOWN IN THE STRUCTURE WHICH ARE RELATED TO PURPOSES DEPICTED IN CONTRACT DOCUMENTS OTHER THAN THE STRUCTURAL DRAWINGS OR BY MANUFACTURERS AND INSTALLERS OF VARIOUS EQUIPMENT AND FINISHES SHALL BE SUITABLE FOR THE PURPOSES DEPICTED BY THE CONTRACT DOCUMENTS. REGARDING SUCH ITEMS OR TO BE SUITABLE FOR THE INSTALLATION OF VARIOUS EQUIPMENT AND FINISHES. ANY REQUIREMENT FOR REGULATION OR CHANGE IN DIMENSIONS OF ANY OPENING, DEPRESSION, RECESS, SLOPE, BLOCCOUT, OR EMBEDMENT SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER IN DRAWING FORM PRIOR TO THE FABRICATION OF MATERIALS OR CONSTRUCTION.

- VARIOUS OPENINGS, DEPRESSIONS, RECESSES, SLOPES, BLOCCOUTS, CURBS, AND EMBEDMENTS NOT SHOWN IN THE STRUCTURAL DRAWINGS MAY BE REQUIRED IN THE STRUCTURE FOR PURPOSES DEPICTED IN CONTRACT DOCUMENTS OTHER THAN THE STRUCTURAL DRAWINGS OR BY THE MANUFACTURERS AND INSTALLERS OF VARIOUS EQUIPMENT AND FINISHES. THE CONTRACTOR SHALL INCORPORATE AND COORDINATE THE LOCATION AND DIMENSIONS OF ANY OPENING, DEPRESSION, RECESS, SLOPE, BLOCCOUT, OR EMBEDMENT INTO THE STRUCTURE AS REQUIRED TO BE SUITABLE FOR THE PURPOSES DEPICTED BY THE CONTRACT DOCUMENTS. REGARDING SUCH ITEMS OR TO BE SUITABLE FOR THE INSTALLATION OF VARIOUS EQUIPMENT AND FINISHES. THE SUITABLE LOCATION AND DIMENSIONS OF ALL OPENINGS, DEPRESSIONS, RECESSES, SLOPES, BLOCCOUTS, AND EMBEDMENTS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER IN DRAWING FORM PRIOR TO THE FABRICATION OF MATERIALS OR CONSTRUCTION. AN ALLOWANCE SHALL BE INCLUDED IN THE BID PRICE SUFFICIENT TO ADEQUATELY COVER STRUCTURAL REQUIREMENTS FOR SUCH ITEMS WITHOUT NEED FOR A FUTURE CHANGE TO THE BID PRICE.

- LOADINGS FOR MECHANICAL EQUIPMENT: ARE BASED ON THE UNITS SHOWN ON THE MECHANICAL DRAWINGS AND IN THE EQUIPMENT SCHEDULE. ANY CHANGES IN TYPE, SIZE, WEIGHT, OR NUMBER OF PIECES OF EQUIPMENT SHALL BE REPORTED TO THE ARCHITECT FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.

- SUBSTITUTIONS & DEVIATIONS: PROPOSED SUBSTITUTION OF MATERIALS, PRODUCTS OR DETAILS DEPICTED IN THE CONTRACT DOCUMENTS SHALL BE SUBMITTED ONLY DURING THE BIDDING PERIOD. AFTER BIDS ARE ACCEPTED, NOTICE IN WRITING OF ANY PROPOSED SUBSTITUTIONS OR ANY PROPOSED DEVIATIONS TO THE STRUCTURE, AS REQUIRED BY THESE DOCUMENTS, SHALL BE SUBMITTED WITH BACKUP DATA IDENTIFYING THE REASON FOR THE PROPOSED SUBSTITUTION OR DEVIATION. FOR PROPOSED SUBSTITUTIONS OF PRODUCTS, THE BACKUP DATA SHALL INCLUDE CURRENT I.C.B.O. REPORT. THE PROPOSED SUBSTITUTIONS SHALL BE CONSIDERED AFTER ACCEPTANCE OF BIDS, ONLY WHEN THEY ARE SUBMITTED WITH DOCUMENTED SAVINGS TO BE DEDUCTED FROM THE PROJECT. PROPOSED SUBSTITUTIONS OF MATERIALS OR PRODUCTS THAT DO NOT HAVE AN I.C.B.O. REPORT, WILL NOT BE CONSIDERED FOR SUBSTITUTIONS.

- SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS NOT SHOWN OR FOR EXACT LOCATIONS OF ALL SLAB DEPRESSIONS. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL SECTIONS WITH THE ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL MEMBERS.

- THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION MATERIALS WHOSE WEIGHT EXCEEDS THE DESIGN LIVE LOADS INDICATED ON THE STRUCTURAL DRAWINGS ARE NOT STORED ON STRUCTURALLY SUPPORTED FLOOR OR ROOF FRAMING.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE GRADES WITH THE CIVIL ENGINEER'S DRAINAGE PLAN AND THE LANDSCAPE ARCHITECT'S PLAN.

- THE DRAWINGS IN THE STRUCTURAL DOCUMENTS ARE NOT TO BE SCALED FOR ANY PURPOSE, INCLUDING THE DETERMINATION OF QUANTITIES AND THE FIT OF MATERIALS.

- THESE PLANS MUST BE SUBMITTED FOR REVIEW BY THE GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, AND ERECTION IN THE FIELD.

- PRECONSTRUCTION MEETINGS: THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING PRECONSTRUCTION MEETINGS FOR THE FOUNDATION AND SUPERSTRUCTURE ELEMENTS OF THE PRIMARY FRAME WITH A MINIMUM OF TWO WEEKS OF NOTICE PRIOR TO START OF THE RELEVANT WORK. ATTENDEES SHALL INCLUDE THE CONTRACTORS, APPROPRIATE SUBCONTRACTORS, FABRICATORS, INSPECTORS, ARCHITECT/ENGINEERS. ON THE MEETING AGENDA SHALL BE REVIEW OF WORK SCOPE, PROJECT SCHEDULE OF THE ELEMENT IN QUESTION, CONTACT INFORMATION OF RESPONSIBLE PARTIES, INSPECTION ISSUES, CLARIFICATIONS, TESTING AND ACCEPTANCE, AND ANY OTHER TOPIC DEEMED APPROPRIATE BY THE CONTRACTOR OR THE ARCHITECT.

- EXISTING UTILITIES: UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL PLANS, THE LOCATION OF ANY EXISTING SUBGRADE UTILITIES IS UNKNOWN. FOUNDATION CONSTRUCTION MAY HAVE TO BE MODIFIED UPON DISCOVERY OF SUCH ITEMS. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICT OF EXISTING UTILITY ITEMS WITH THE CONSTRUCTION OF FOUNDATION ELEMENTS.
- ROOF DRAINAGE: THE ROOF STRUCTURE, AND ITS SUPPORTING ELEMENTS HAVE BEEN DESIGNED WITH THE ASSUMPTION THAT SUFFICIENT DRAINAGE HAS BEEN PROVIDED TO PREVENT ANY PONDING OF WATER.

CODES

- BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE WITH CITY OF EDINBURG, TEXAS AMENDMENTS
- STRUCTURAL CONCRETE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE, AC 308
- STRUCTURAL STEEL MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN, AMERICAN INSTITUTE OF STEEL CONSTRUCTION, NINTH EDITION
- ASCE 7-16

WELDING

- REFERENCES:
 - AWS D1.1B6 - "STRUCTURAL WELDING CODE - STEEL"
 - AWS D1.3B1 - "STRUCTURAL WELDING CODE - SHEET STEEL"
 - AWS D1.3B1 - "STRUCTURAL WELDING CODE - SHEET STEEL"

COORDINATION

- ONLY LARGER SLEEVE OPENINGS AND FRAMED OPENINGS IN STRUCTURAL FRAMING COMPONENT MEMBERS ARE INDICATED ON THE STRUCTURAL DRAWINGS. HOWEVER, ALL SLEEVES, INSERTS AND OPENINGS, INCLUDING FRAMES AND/OR SLEEVES SHALL BE PROVIDED FOR PASSAGE, PROVISION AND/OR INCORPORATION OF THE WORK OF THE CONTRACT, INCLUDING:
 - a. PIPES, NOT LIMITED TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING WORK. THIS WORK SHALL INCLUDE THE COORDINATION OF SIZES, ALIGNMENT, DIMENSIONS, POSITION, LOCATIONS, ELEVATIONS AND GRADES AS REQUIRED TO SERVE THE INTENDED PURPOSE. OPENINGS NOT INDICATED ON THE STRUCTURAL DRAWINGS, BUT REQUIRED AS NOTED ABOVE, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR FLOOR ELEVATIONS, SLOPES, SPANS AND LOCATION OF DEPRESSIONS AND ELEVATED FLOOR AREAS.

- COMPARABILITY OF THE STRUCTURE AND PROVISIONS FOR BUILDING EQUIPMENT SUPPORTED ON OR FROM STRUCTURAL COMPONENTS SHALL BE VERIFIED AS TO SIZE, DIMENSIONS, CLEARANCES, ACCESSIBILITY, WEIGHTS AND VIBRATION WITH THE EQUIPMENT FOR WHICH THE STRUCTURE HAS BEEN DESIGNED PRIOR TO SUBMISSION OF SHOP DRAWINGS AND DATA FOR EACH PIECE OF EQUIPMENT AND FOR STRUCTURAL COMPONENTS. DIFFERENCES SHALL BE NOTED ON THE SUBMITTALS.

- SHOP DRAWINGS SHALL BE PREPARED FOR ALL STRUCTURAL ITEMS AND SUBMITTED FOR REVIEW BY THE ENGINEER. CONTRACT DRAWINGS SHALL NOT BE REPRODUCED AND USED AS SHOP DRAWINGS. ALL ITEMS DERIVED FROM THE CONTRACT DRAWINGS OR FROM PREVIOUSLY SUBMITTED SHOP DRAWINGS SHALL BE CLOUDED.

- THE DETAILS DESIGNATED AS "TYPICAL DETAILS" APPLY GENERALLY TO THE DRAWINGS IN ALL AREAS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAILS.

- THE DESIGN AND PROVISION OF ALL TEMPORARY SUPPORTS SUCH AS GUYS, BRACES, FALSWORK, SUPPORTS AND ANCHORS FOR SAFETY LINES, BRIBING, OR ANY OTHER TEMPORARY ELEMENTS REQUIRED FOR THE EXECUTION OF THE CONTRACT ARE NOT INCLUDED IN THESE DRAWINGS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. TEMPORARY SUPPORTS SHALL NOT RESULT IN THE OVERSTRESS OR DAMAGE OF THE ELEMENTS TO BE BRACED NOR ANY ELEMENTS USED AS BRACE SUPPORTS.

STEEL ROOF DECK

- REFERENCE: STEEL DECK INSTITUTE "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS 1981-1988"
- DECK SHALL BE 1-1/2 INCH 20 GAUGE GALVANIZED, TYPE F.
- DECK ENDS MAY BE EITHER BUTTED OR LAPPED OVER SUPPORTS. ON JOIST FRAMING, APPROPRIATE END LAP SHALL OCCUR OVER A TOP CHORD ANGLE FOR PROPER ANCHORAGES.
- ATTACH METAL DECK TO STRUCTURAL STEEL WITH 5/8" DIAMETER PULDLE WELDS AT 8" O.C. AT PERIMETER AND 12" O.C. AT INTERMEDIATE SUPPORTS. FASTEN SIDE LAPS WITH #12 TEK SCREWS AT 6" O.C.

ALLOWANCE

- IN ADDITION TO THE MATERIAL SHOWN, THE CONTRACTOR TO PROVIDE ADDITIONAL MATERIAL FOR USE ON THE PROJECT AS DIRECTED BY THE STRUCTURAL ENGINEER FIELD REPRESENTATIVE. THE ALLOWANCE COST SHALL INCLUDE MATERIAL COST, LABOR COSTS AND PLACEMENT AT THE SITE.
- REMAINING BALANCE AT THE END OF THE PROJECT SHALL BE RETURNED/CREDITED BACK TO THE OWNER.
- THE ALLOWANCE SHALL APPEAR ON THE SCHEDULE OF VALUE AS A LINE ITEM

MATERIAL	ALLOWANCE
CONCRETE	5 CU. YD.
REINFORCING STEEL	500 LBS
STRUCTURAL STEEL	500 LBS
CMU	0 SQ. FT.
CONCRETE SPALL REPAIR (4" DEEP)	0 SQ. FT.

SPECIAL NOTES TO OWNER

- UNDER NORMAL CONDITIONS, AND FOR CONVENTIONAL BUILDINGS SUCH AS THE SUBJECT MATTER, REINFORCED CONCRETE AND MASONRY OVER TOP CHORDS, THE CRACKS ARE TO BE INHERENT SHRINKAGE OF CONCRETE, CREEP, AND RESTRAINING EFFECTS OF VERTICAL AND OTHER STRUCTURAL ELEMENTS TO WHICH THE BEAMS/SLABS ARE TIED.

- THE CRACKS FORMED ARE NORMALLY COSMETIC. THE SLAB MAINTAINS ITS SERVICEABILITY AND STRENGTH REQUIREMENTS. IT IS EMPHASIZED THAT ALTHOUGH SPECIAL EFFORT IS MADE TO REDUCE THE POTENTIAL CAUSES AND NUMBER OF SUCH CRACKS, IT IS NOT PRACTICAL TO PROVIDE TOTAL ARTICULATION BETWEEN THE FLOOR SYSTEM AND ITS SUPPORTS AND THEREBY ACHIEVE COMPLETE RHINION OF ALL CRACKS.

- 3MOST SUCH CRACKS DEVELOP OVER THE FIRST THREE YEARS OF THE LIFE OF THE FLOOR SYSTEM. CRACKS WHICH ARE WIDER THAN 0.01 INCH MAY NOT BE TO BE PRESURE EPOXY, REFER TO THE OWNER UNDER "ALLOWANCE"

- THE OBJECT OF THE JOINTS PROVIDED IS TO ALLOW MOVEMENT. MOVEMENTS DUE TO CREEP AND SHRINKAGE MAY BE NOTICEABLE AT JOINTS UP TO TWO YEARS AFTER CONSTRUCTION, BEYOND WHICH MOVEMENTS DUE TO VARIATIONS IN TEMPERATURE WILL PERSIST.

DRAWING INTERPRETATION:

- GENERAL:
 - 1. DECISIONS REGARDING THE APPLICABILITY OF "TYPICAL" AND/OR "SIMILAR" DRAWING VIEWS SHALL BE DETERMINED BY THE ENGINEER OF RECORD.
- DRAWING VIEWS LABELED AS "TYPICAL":
 - 1. PARTIAL PLANS, ELEVATIONS, SECTIONS, DETAILS, OR SCHEDULES LABELED WITH "TYPICAL" SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME TO THOSE SHOWN.
 - 2. THE APPLICABILITY OF THE CONTENT OF THESE VIEWS TO LOCATIONS ON THE PLAN CAN BE DETERMINED FROM THE TITLE OF THE VIEWS WHETHER OR NOT THEY ARE LABELED OR KEYED IN AT EACH LOCATION.
- DRAWING VIEWS LABELED AS "SIMILAR":
 - 1. PARTIAL PLANS, ELEVATIONS, SECTIONS, DETAILS, OR SCHEDULES LABELED WITH "SIMILAR" SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE OF SIMILAR CONTENT AND DESIGN INTENT.
 - 2. VIEWS LABELED AS "SIMILAR" MAY REFERENCE A DRAWING DETAIL THAT MAY NOT MATCH THE EXACT CONTENT OF THE INDICATED PARENT VIEW, BUT HAS SUFFICIENT AMOUNT INFORMATION TO REPRESENT THE DESIGN INTENT.
 - 3. VIEWS LABELED AS "SIMILAR" MAY REQUIRE MODIFICATIONS TO THE PARENT DETAIL TO MATCH THE CONDITION OF THE INDICATED DRAWING VIEW.

EXTERIOR COMPONENT AND CLADDING:

- GENERAL:
 - 1. ALL EXTERIOR COMPONENT AND CLADDING SYSTEMS SHALL MEET THE MINIMUM WIND REQUIREMENTS AS PRESCRIBED BY THE INTERNATIONAL BUILDING CODE (IBC), PROJECT EDITION.
 - 2. EXTERIOR COMPONENT AND CLADDING SYSTEMS INCLUDE (BUT NOT LIMITED TO): WINDOWS, CURTAIN WALLS, STOREFRONTS, DOORS, SIDINGS, METAL WALL AND ROOF PANELS, ROOFING SYSTEMS, SKYLIGHTS, ROOF TOP EQUIPMENT, ETC.
 - 3. CONTRACTOR SHALL SUBMIT COMPOSITE AND CLADDING ASSEMBLY WIND PRESSURE AND IMPACT RESISTANCE TESTING RATINGS (WHEN APPLICABLE) TO AND ENGINEER FOR REVIEW.

- TESTED ASSEMBLIES:
 - 1. THE CONTRACTOR SHALL INSTALL PROJECT SPECIFIC ASSEMBLIES THAT HAVE BEEN TESTED AND MEET THE APPLICABLE PERFORMANCE REQUIREMENTS.
 - 2. PROJECT ASSEMBLIES SHALL BE INSTALLED IN THE SAME MANNER AS TESTED ASSEMBLIES INCLUDING CONCRETE, AMERICAN CONCRETE INSTITUTE, AC 308
 - 3. THE TESTED ASSEMBLY SHALL MEET THE POSITIVE AND NEGATIVE COMPOSITE AND CLADDING WIND PRESSURES INDICATED ON THE STRUCTURAL DRAWINGS.

- ASSEMBLY PERFORMANCE STANDARDS:
 - 1. ASTM E330 - STANDARD TEST FOR STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS, DOORS, SKYLIGHTS, AND CURTAIN WALLS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE
 - 2. ASTM E1885 - STANDARD TEST METHOD FOR STRUCTURAL PERFORMANCE OF SHEET METAL ROOF AND SIDING SYSTEMS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE
 - 3. ASTM E1886 - STANDARD TEST METHOD FOR PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, DOORS, AND IMPACT PROTECTIVE SYSTEMS IMPACTED BY WIND-BORNE DEBRIS IN HURRICANES
 - 4. ASTM E1887 - STANDARD TEST METHOD FOR PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, DOORS, AND IMPACT PROTECTIVE SYSTEMS IMPACTED BY MISSILES AND EXPOSED TO CYCLIC PRESSURE DIFFERENTIALS
 - 5. ASTM E1888 - STANDARD SPECIFICATION FOR PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, DOORS, AND IMPACT PROTECTIVE SYSTEMS IMPACTED BY WIND-BORNE DEBRIS IN HURRICANES
 - 6. FM 4450 - APPROVAL STANDARD FOR CLASS 1 INSULATED STEEL DECK ROOFS
 - 7. FM 4450 - APPROVAL STANDARD FOR SINGLE-LAY POLYMER-MODIFIED BITUMEN SHEET, BUILT UP ROOF (BUR) AND LIQUID APPLIED ROOF ASSEMBLIES FOR USE IN CLASS 1 AND NONCOMBUSTIBLE ROOF DECK CONSTRUCTION
 - 8. FM 4472 - AMERICAN NATIONAL STANDARD FOR EVALUATING THE SIMULATED WIND UPLIFT RESISTANCE OF ROOF ASSEMBLIES USING STATIC POSITIVE AND/OR NEGATIVE DIFFERENTIAL PRESSURES
 - 9. UL 280 - STANDARD TEST METHOD FOR UPLIFT RESISTANCE OF ROOF ASSEMBLIES
 - 10. UL 1897 - STANDARD FOR UPLIFT TESTS FOR ROOF COVERING SYSTEMS
 - 11. ASTM D1788 - STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (UPLIFT FORCE) UPLIFT RESISTANCE METHOD
 - 12. ASTM D2261 - STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING

GENERAL NOTES

SHOP DRAWINGS AND SUBMITTALS:

- SUBMITTAL LIST AND SCHEDULE:
 - 1. THE GENERAL CONTRACTOR SHALL PREPARE A DETAILED LIST AND SCHEDULE OF ALL SUBMITTAL ITEMS TO BE SENT TO THE STRUCTURAL ENGINEER PRIOR TO THE START OF CONSTRUCTION. THE LIST SHALL INCLUDE:
 - a. DESIGN CALCULATIONS
 - b. PRODUCTS, ASSEMBLIES, AND HARDWARE
 - c. PRODUCT CERTIFICATES, MILL CERTIFICATES, AND FABRICATOR CERTIFICATES
 - d. SHOP DRAWINGS

- SHOP DRAWINGS AND SUBMITTALS:
 - 1. THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEERING REVIEW SHOP DRAWINGS AND SUBMITTALS FOR THE FOLLOWING ITEMS BUT NOT LIMITED TO:
 - a. CONCRETE MIX DESIGN AND ACCESSORIES
 - b. CONSTRUCTION JOINT LOCATIONS IN SLAB ON GRADE
 - c. EMBEDDED PLATES
 - d. GROUT MIX DESIGN
 - e. MASONRY ASSEMBLAGE
 - f. MISCELLANEOUS STEEL
 - g. MORTAR MIX DESIGN
 - h. PRE-ENGINEERED CANOPY REACTION'S
 - i. REINFORCING STEEL
 - j. ROOF DECK
 - k. ROOF TOP UNITS, LOCATIONS AND ANCHORAGE"
 - l. STEEL, JOISTS AND JOIST GIRDERS
 - m. STEEL STAINS AND LADDERS"
 - n. STRUCTURAL STEEL CONNECTION DESIGN"
 - o. STRUCTURAL STEEL

- "SHOP DRAWINGS OR SUBMITTALS REQUIRED TO BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS IN"

2. ALLOW A MINIMUM OF 12 WORKING DAYS FOR REVIEW OF EACH SET OF SHOP DRAWINGS.

- GENERAL CONTRACTOR'S ROLE PRIOR TO SUBMISSION

1. SHOP DRAWINGS AND SUBMITTALS SHALL BE REVIEWED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE ENGINEER FOR REVIEW.
2. THE GENERAL CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS SUBMITTED BY THEIR SUB-CONTRACTORS AND COORDINATE SHOP DRAWINGS WITH ALL OTHER TRADES PRIOR TO SUBMISSION TO THE ENGINEER FOR REVIEW.
3. THE GENERAL CONTRACTOR SHALL ANSWER ALL QUESTIONS OR CLARIFICATIONS BY THE SUB-CONTRACTORS BEFORE SUBMITTING TO THE ENGINEER FOR REVIEW.

- D. SHOP DRAWING AND SUBMITTAL LEGIBILITY

1. SHOP DRAWINGS AND SUBMITTALS SHALL USE DRAFTING LINE WORK AND LETTERING THAT IS CLEAR.
2. SHOP DRAWINGS AND SUBMITTALS SHALL SHOW CLEAR AND COMPLETE INFORMATION FOR THE FABRICATION AND INSTALLATION.

- E. ERRORS AND OMISSIONS

1. REVIEW OF THE SHOP DRAWINGS AND SUBMITTALS IS FOR GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS. REVIEW OF THE SHOP DRAWINGS AND SUBMITTALS BY THE ENGINEER DOES NOT INDEMNIFY THE CONTRACTOR FOR ANY ERRORS AND/OR OMISSIONS IN DIMENSIONS, MATERIALS, AND/OR STRUCTURAL ELEMENTS INDICATED IN THE SHOP DRAWINGS AND SUBMITTALS.

- F. DISCREPANCIES

1. IF THERE EXISTS ANY DISCREPANCIES BETWEEN THE STRUCTURAL DRAWINGS AND SHOP DRAWINGS AND/OR SUBMITTALS, THE INFORMATION IN THE STRUCTURAL DRAWINGS SHALL SUPERSEDE INFORMATION THAT IS NOT INDICATED IN THE SHOP DRAWINGS SHALL BE OBTAINED FROM THE STRUCTURAL DRAWINGS.

- G. REPRODUCTION

1. THE USE OF THE ELECTRONIC FILES OR REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY THE GENERAL CONTRACTOR, AND SUB-CONTRACTOR, ERECTOR, FABRICATOR, OR SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS AND/OR SUBMITTALS INDICATES THEIR ACCEPTANCE OF ALL INFORMATION SHOWN IN THESE DOCUMENTS ARE 100% CORRECT, AND OBLIGATES THEMSELVES TO ANY EXPENSES, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.

MISCELLANEOUS:

- A. CONTRACT DOCUMENTS
 - 1. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN ALL CONSTRUCTION DOCUMENTS, THE LATEST ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUB-CONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE START OF CONSTRUCTION.
 - 2. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE GENERAL CONTRACTOR SHALL SUPERSEDE THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, AND MATERIALS.
 - 3. THE GENERAL CONTRACTOR SHALL COORDINATE ALL OPENINGS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER TRADES.
 - 4. REFERENCE THE COMPLETE CONTRACT DOCUMENTS ASIDE FROM THE STRUCTURAL DRAWINGS SUCH AS IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THEIR LOCATION SHALL BE OF THE SAME CHARACTER AS SHOWN OR SPECIFIED IN SIMILAR CONDITIONS.
 - 5. WHERE DETAILS OR SECTIONS ARE NOT SHOWN IN THE DRAWINGS, THE GENERAL CONTRACTOR SHALL DEVELOP THEIR OWN DETAILS OR SECTIONS BASED ON SIMILAR DETAILS OR SECTIONS IN THE DRAWINGS.

- DRAWING CONFLICTS

1. THE GENERAL CONTRACTOR SHALL GIVE NOTIFICATION OF ANY AND ALL DISCREPANCIES WITHIN THE STRUCTURAL DRAWINGS PRIOR TO BIDDING, FABRICATION, AND INSTALLATION OF ALL STRUCTURAL MEMBERS.

- CONFLICTS IN STRUCTURAL REQUIREMENTS

1. WHERE CONFLICTS EXIST WITHIN THE STRUCTURAL DRAWINGS, GENERAL NOTES, OR SPECIFICATIONS, THE MORE STRINGENT, STRICTEST, REQUIREMENT SHALL SUPERSEDE.

- SOILS CLASSIFIED AS BASE MATERIAL, MEETING THE REQUIREMENTS OF T2007 2014 SPECIFICATION ITEM 241 TYPE 1, GRADE 1, C-1, L-2, MEETING (SEE TABLE 4 FOR SPECIFICATIONS) REQUIREMENTS) OR ITEM 241 TYPE 1, GRADE 1, C-1, L-2, MEETING (SEE TABLE 4 FOR SPECIFICATIONS) REQUIREMENTS)

- 822 RECOMMENDS ADDITIONAL QUALITY CONTROL OF ALL STRUCTURAL FILL MATERIALS AS THEY ARE PLACED AND COMPACTED TO COMPLY WITH THE REQUIREMENTS SPECIFIED.

- STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM 98 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D698 AT MOISTURE CONTENTS RANGING BETWEEN MINUS TWO (2) AND PLUS TWO (2) PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT. STRUCTURAL FILL SHALL BE PLACED IN LIFT LIFTS NOT EXCEEDING 8 INCHES COMPACTED. THE FILL SHOULD BE PROPERLY COMPACTED IN ACCORDANCE WITH THESE RECOMMENDATIONS AND TESTED FOR COMPACTION AS SPECIFIED.

- PERMETER FOUNDATION CAP

- THE FINISH, 14 INCHES OF FILL OUTSIDE THE BUILDING AREA SHOULD CONSIST OF A COHESIVE LOW PERMEABLE CLAY CAP (CH OR CL SOIL). THE CLAY CAP SHALL BE SLOPED AWAY FROM THE FOUNDATION WITH A MINIMUM GRADIENT OF 4 INCHES IN 5 FEET AND THE SURROUNDING AREAS SHOULD HAVE A POSITIVE DRAINAGE, REFLECT TO THE OWN DRAWINGS FOR FINAL ELEVATIONS.

- THE CLAY CAP CANNOT BE ALLOWED TO DRY OUT DURING OR AFTER COMPACTION. THE MINIMUM PLASTICITY INDEX SHALL BE 20.

- THE CLAY CAP SHALL BE A MINIMUM 50% BY WEIGHT PASSING THE NO. 200 SIEVE.

- THE CLAY CAP SHALL BE COMPACTED TO A MINIMUM OF 96% OF MAXIMUM DRY DENSITY DETERMINED BY ASTM D698.

- THE MOISTURE CONTENT SHOULD BE 0% TO 4% WITHIN OPTIMUM.

- IF PLANTINGS ARE INTENDED, ADD 4 TO 6 INCHES OF LOAM ON TOP OF THE CLAY CAP.

- E. FIELD CONDITIONS

1. IN THE EVENT FOUNDATION EXCAVATIONS ARE CARRIED TO A DEPTH GREATER THAN REQUIRED, THE ADDITIONAL DEPTH SHALL BE FILLED WITH THE SAME CONCRETE AS THAT FOR THE FOOTINGS AT NO ADDITIONAL EXPENSE TO THE OWNER. NO UNCONTROLLED FILL WILL BE PERMITTED.

- THE FOOTING EXCAVATIONS SHALL BE KEPT FREE FROM LOOSE MATERIAL AND STANDING WATER.

- CARE SHOULD BE TAKEN TO SHAPE THE BUILDING AREAS SUCH THAT WATER WILL NOT POND AROUND THE STRUCTURE DURING CONSTRUCTION AND CAUSE THE NEAR SURFACE CLAYS TO SWELL.

- THE PROPOSED STRUCTURE SHALL BE ISOLATED FROM ANY MOISTURE SOURCE WHICH MIGHT ALSO CAUSE SWELLING OF THE CLAYS AFTER COMPLETION OF THE CONSTRUCTION.

- WHEN THE STRUCTURE IS COMPLETE, THE GROUND SURFACE SHOULD SLOPE AWAY FROM THE STRUCTURE.

- DO NOT PLANT OR LEAVE IN PLACE DEEP ROOTED TREES WITHIN PROXIMITY TO THE PERIMETER OF THE STRUCTURE. DEEP ROOTED TREES HAVE THE POTENTIAL TO REMOVE MOISTURE FROM BENEATH THE BUILDING.

- IF PLANTED, LOCATIONS SHOULD BE SLOPED ENOUGH TO ALLOW THE ROOT TUBS TO EXTEND NEAR OR BENEATH THE BUILDING.

- AIR CONDITIONING CONDENSER DRAIN LINES SHALL DISCHARGE WATER AWAY FROM THE PERIMETER OF THE STRUCTURE. THE DISCHARGE AREA SHALL HAVE SUFFICIENT SLOPE AWAY FROM THE STRUCTURE TO PREVENT STANDING WATER.

- F. COORDINATION WITH GEOTECHNICAL ENGINEER

1. THE GEOTECHNICAL ENGINEER SHALL BE THE OWNER'S REPRESENTATIVE TO CONTROL THE PLACEMENT OF COMPLETED FILL.

2. THE GEOTECHNICAL ENGINEER SHALL APPROVE THE SUBGRADE PREPARATION, THE SELECT FILL MATERIAL, THE METHOD OF PLACEMENT, AND THE INSPECTION AND TESTING OF THE FILL.

3. IF IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE PLACEMENT AND TESTING OF ALL FILLS WITH THE GEOTECHNICAL ENGINEER, FAILURE TO DO SO SHALL REQUIRE REMOVAL OF THE FILL AT THE CONTRACTOR'S EXPENSE.

- A WRITTEN SOILS REPORT SHALL BE FORMULATED BY THE GEOTECHNICAL ENGINEER TO INDICATE APPROVAL OF THE COMPLETED FILL.

- G. GEOTECHNICAL REPORT

1. THE PROJECT GEOTECHNICAL REPORT SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS.

2. ALL EARTHWORK AND GRADING SHALL BE PERFORMED ACCORDANCE WITH THE RECOMMENDATIONS INDICATED IN THE REPORT OR AS INDICATED ABOVE WHICHEVER IS MORE STRINGENT.

- H. CONSTRUCTION DRAINAGING



TEXAS ARCHITECT
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SEAL:

ECISD HIGH SCHOOL ATHLETIC MULTI-USE BUILDING 25-74

ROBERT VELA
HIGH SCHOOL

801 E Canton
Rd, Edinburg,
TX 78539

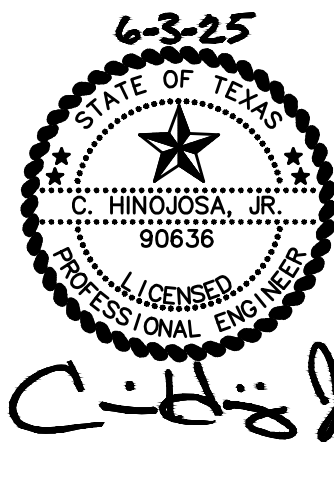
CLIENT:
EDINBURG CISD

REVISION:		
No.	Description	Date
PROJECT #: DRAWN BY: CHECKED BY: DATE: 4/28/25		

GENERAL NOTES

ADDENDUM #2

S1.1



CHLH
ENGINEERING, LLC
TBPE FIRM No. F-8719
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GENERAL NOTES

REINFORCED CONCRETE:

- A. GENERAL
1. VERIFY ALL DIMENSIONS. COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO BIDDING, AND/OR CONSTRUCTION.
 2. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI) SPECIFICATIONS, ACI 301, ACI 308, AND ACI 117 LATEST EDITIONS. FOOTINGS, MATS, AND DRILLED PIERS SHALL COMPLY WITH ACI 308, LATEST EDITION.
 3. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS, AND ALL ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE", LATEST EDITION.
 4. CLASSES OF CONCRETE
 5. REFERENCE 1501.2 FOR THE MINIMUM 28-DAY COMPRESSIVE STRENGTH (f_c) FOR ALL CLASSES OF CONCRETE.
 6. CONCRETE MIX
 7. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE CONCRETE MIX FOR EACH CLASS OF CONCRETE TO ACHIEVE THE 28-DAY COMPRESSIVE STRENGTH. PREPARE DESIGN MIXES SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE. THE PROJECT IS FOR EACH CLASS OF CONCRETE PROPORTIONED ACCORDING TO ACI 301, FOR BOTH NORMALWEIGHT AND LIGHTWEIGHT CONCRETE DETERMINED BY EITHER LABORATORY TRIAL MIX OR FIELD TEST DATA.
 8. FIELD EXPERIENCE OR TRIAL MIXTURES ARE ACCEPTABLE PROVIDED ALL CRITERIA ARE MET:
 - a. THE CONTRACTOR PROVIDES PROPER DOCUMENTATION OF THE STRENGTH TEST RECORDS NOT MORE THAN 24 MONTHS OLD AND SHALL CLEARLY INDICATE MATERIALS, QUALITY CONTROL PROCEDURES, AND CONDITIONS SIMILAR TO THOSE EXPECTED FOR THE PROJECT. THE CONCRETE MATERIALS INCLUDED IN THE MIX DESIGN SHALL BE THE SAME MATERIALS PROVIDED FOR THE PROJECT, AND SHALL BE PREPARED BY AN INDEPENDENT TESTING LABORATORY APPROVED BY THE OWNER.
 - b. A MINIMUM OF 30 CONSECUTIVE TESTS OR TWO GROUPS OF CONSECUTIVE TESTS TOTALING TO 30 TESTS.
 - c. ALL CONSECUTIVE TESTS ARE WITHIN 1000 PSI OF f_c .
 - d. THE CONTRACTOR SHALL SUBMIT A CALCULATION OF THE SAMPLE STANDARD DEVIATION AND THE REQUIRED AVERAGE COMPRESSIVE STRENGTH IN ACCORDANCE TO ACI 318 (EDITION LISTED ON DESIGN CRITERIA) SECTION R5.3.1 AND TABLE 5.3.2.1, RESPECTIVELY.
 9. SLUMP: REFERENCE 1505.2 FOR SLUMP: 8" UNLESS NOTED OTHERWISE.
 10. ADJUSTMENT TO CONCRETE MIXES: MIX DESIGN ADJUSTMENTS MAY BE REQUESTED BY THE CONTRACTOR WHEN CHARACTERISTICS OF MATERIALS, JOB CONDITIONS, WEATHER, TEST RESULTS, OR OTHER CIRCUMSTANCES WARRANT. AT NO ADDITIONAL COST TO OWNER AND AS ACCEPTED BY THE OWNER, LABORATORY TEST DATA FOR REVERSED MIX DESIGN AND STRENGTH RESULTS MUST BE SUBMITTED TO AND ACCEPTED BY THE OWNER OR OWNER REP. BEFORE USING IN WORK. BOTH THE CONCRETE TESTING AND INSPECTION AGENCY AND THE CONCRETE CONTRACTOR SHALL SATISFY THEMSELVES THAT THE CONCRETE MIX DESIGN AND STRENGTH RESULTS WILL MEET THE SPECIFICATIONS FOR THIS PROJECT. IN ADDITION, THE CONTRACTOR AND CONCRETE FINISHER SHALL VERIFY THAT THE WORKABILITY, FINISH, AND SETTING TIMES ARE APPROPRIATE FOR CONCRETE INSTALLATIONS. PLACEMENT SHALL BE MADE BY CHUTE DIRECTLY FROM THE CONCRETE TRUCKS. IF PUMPING OF THE CONCRETE IS CONTINGED FOR ANY SPECIAL LOCATIONS, THE PROPORTIONS ESTABLISHED ABOVE SHALL NOT BE ALTERED TO THE CAPABILITIES OF THE PUMPING EQUIPMENT. PUMP SHALL NOT BE PRIMED OVER STRUCTURAL CONCRETE LOCATIONS.
 11. READY MIX CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM C34. DISCHARGE OF THE CONCRETE SHALL BE COMPLETED WITHIN 90 MINUTES OR BEFORE THE DRUM HAS REVOLVED 300 REVOLUTIONS, WHICHEVER COME FIRST.
 12. WATER/CEMENT RATIO SHALL BE BASED ON SURFACE DRY MATERIAL. REFERENCE 1505.2.
 13. PORTLAND CEMENT: CONFORM TO ASTM C150, TYPE I. USE ONE MANUFACTURER OF CEMENT THROUGHOUT THE PROJECT.
 14. FLY ASH: CONFORM TO ASTM C618.
 15. COARSE AND FINE AGGREGATES: CONFORM TO ASTM C33 FOR NORMALWEIGHT CONCRETE AND ASTM C330 FOR LIGHTWEIGHT CONCRETE.
 16. WATER: CONFORM WITH ASTM C1602.
 17. CHEMICAL ADMITTURES: ALL CONCRETE SHALL CONTAIN CHEMICAL ADMITTURES TO OBTAIN THE SPECIFIED DESIGN STRENGTH IN ACCORDANCE WITH ASTM C494.
 18. AIR-ENTRAINING ADMITTURES: SHALL CONFORM TO ASTM C260. AIR-ENTRAINING ADMITTURE SHALL NOT BE USED ON INTERIOR CONCRETE.
 19. WATER-REDUCING ADMITTURE: SHALL CONFORM TO ASTM C494, TYPE A AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS.
 20. WATER-REDUCING, RETARDING ADMITTURE: SHALL CONFORM TO ASTM C494, TYPE D, AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS.
 21. HIGH RANGE WATER-REDUCING ADMITTURE (SUPERPLASTICIZER): SHALL CONFORM TO ASTM C494, TYPE F OR TYPE G AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS.
 22. WATER-REDUCING, NON-CORROSIVE ACCELERATING ADMITTURE: SHALL CONFORM TO ASTM C494, TYPE C OR E AND CONTAIN NOT MORE CHLORIDE IONS THAN THAT ARE PRESENT IN MUNICIPAL DRINKING WATER. THE ADMITTURE MANUFACTURER MUST HAVE LONG-TERM, NON-CORROSIVE TEST DATA FROM AN INDEPENDENT TESTING LABORATORY OF AT LEAST 4 YEARS DURATION USING AN ACCEPTABLE ACCELERATED CORROSION TEST METHOD SUCH AS THAT USING ELECTRICAL POTENTIAL MEASURES.
 23. PROHIBITED ADMITTURES: CALCIUM CHLORIDE OR ADMITTURES CONTAINING MORE THAN 0.05% CHLORIDE IONS ARE NOT PERMITTED.
 24. CONSTRUCTION JOINTS
 25. NO HORIZONTAL CONSTRUCTION JOINTS WILL BE PERMITTED IN SLABS OR BEAMS BLOCK OUT "BLEEDS SHALL BE DEMOLISHED.
 26. VERTICAL CONSTRUCTION JOINTS IN SLABS OR BEAMS ARE TO BE AS SHOWN ON PLANS OR AS APPROVED BY THE ENGINEER.
 27. SURFACE OF CONSTRUCTION JOINTS SHALL BE CLEANED AND LATANCE REMOVED.
 28. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, ALL CONSTRUCTION JOINTS SHALL BE WETTED AND STANDING WATER REMOVED.
 29. REFERENCE TYPICAL DETAILS FOR CONSTRUCTION JOINT REINFORCING AND SHEAR KEY REQUIREMENTS.
 30. CONSTRUCTION JOINTS IN FLOORS SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE SPAN OF SLABS, BEAMS, AND GIRDERS.
 31. CONSTRUCTION JOINTS IN GIRDERS SHALL BE OFFSET A MINIMUM DISTANCE OF TWO TIMES THE WIDTH OF THE INTERSECTING BEAMS.
 32. BEAMS, GIRDERS, HAUNCHES, DROP PANELS, SHEAR CAPS, AND CAPITALS SHALL BE PLACED MONOLITHICALLY UNLESS NOTED OTHERWISE.
 33. OPENINGS AND PENETRATIONS
 34. ALL OPENINGS IN SLAB (FOR PIPES, DRAINS, ETC.) SHALL BE SEALED WITH SEALANT.
 35. UTILITIES THAT PROJECT THROUGH SLAB FLOORS SHALL BE DESIGNED WITH SLEEVES IN ORDER TO PREVENT DAMAGE TO THE LINE SHOULD ANY MOVEMENT OCCUR.
 36. ALL OPENINGS AND PENETRATIONS ARE TO BE REINFORCED AROUND THE PERIMETER. REFERENCE THE TYPICAL DETAILS FOR REINFORCING REQUIREMENTS.
 37. EMBEDMENTS
 38. 1. ANCHOR RODS, DOWELS, INSERTS, ETC., SHALL BE SECURELY TIED IN PLACE PRIOR TO PLACING CONCRETE.
 39. 2. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ALL MOUNTS, GROOVES, REGLETTS, PIPES, CONDUITS, INSERTS, ETC., TO BE CAST IN CONCRETE. PROVIDE OVERSIZED SLEEVES FOR PLUMBING AND ELECTRICAL CONDUITS AND PIPES. NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE FOOTINGS, BEAMS, COLUMNS, WALLS, OR SLABS UNLESS DETAILED IN STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER OF RECORD.
 40. 3. CONDUITS ARE PERMITTED TO BE LOCATED BELOW SLAB-ON-GRADE REINFORCING THESE MUST BE LOCATED BELOW THE DESIGN DEPTH OF THE SLAB WITHIN A THICKENED SLAB. COORDINATE THE INSTALLATION OF RACEWAYS PRIOR TO PLACEMENT.
 41. 4. NO LIQUID, GAS, OR VAPOR, EXCEPT WATER NOT EXCEEDING 90 DEGREES FAHRENHEIT NOR 30 PSI PRESSURE SHALL BE PLACED IN THE PIPES UNTIL THE CONCRETE HAS ACHIEVED ITS DESIGN STRENGTH.
 42. 5. ALUMINUM CONDUITS, PIPES, OR OTHER INSERTS ARE NOT PERMITTED TO BE EMBEDDED INTO STRUCTURAL CONCRETE.
 43. 6. FORMWORK, SHORING, AND BACKSHORING
 44. 1. ALL FORMWORK SHALL BE DESIGNED BY THE GENERAL CONTRACTOR IN ACCORDANCE TO THE ACI 347 "GUIDE TO FORMWORK FOR CONCRETE" LATEST EDITION.
 45. 2. DESIGN OF FORMWORK SHALL CONSIDER:
 - a. RATE AND METHOD OF PLACING CONCRETE.
 - b. CONSTRUCTION LOADS, INCLUDING VERTICAL, HORIZONTAL, AND IMPACT LOADS.
 - c. SPECIAL FORM REQUIREMENTS FOR CONSTRUCTION OF CURVED MEMBERS, SHELLS, FOLDED PLATES, DOMES, ARCHITECTURAL CONCRETE, OR SIMILAR TYPES OF ELEMENTS.
 46. 3. FORMS SHALL BE PROPERLY BRACED OR TIED TOGETHER TO MAINTAIN POSITION OF SHAPE.
 47. 4. FORMS SHALL BE SUBSTANTIAL AND SUFFICIENTLY TIGHT TO PREVENT LEAKAGE OR BLOWOUTS.
 48. 5. FORMS SHALL BE REMOVED SUCH THAT IT DOES IMPAIR THE SAFETY, SERVICEABILITY, AND STRUCTURAL INTEGRITY OF THE STRUCTURE.
 49. 6. BEFORE STARTING CONSTRUCTION, THE GENERAL CONTRACTOR IS RESPONSIBLE IN DEVELOPING A PROCEDURE AND SCHEDULE FOR REMOVAL OF SHORES AND INSTALLATION OF FRESHORES AND FOR CALCULATING THE LOADS TRANSFERRED TO THE STRUCTURE DURING THE PROCESS.
 50. 7. NO CONSTRUCTION LOADS SHALL BE SUPPORTED ON, ANY SHORING REMOVED FROM, ANY PART OF THE STRUCTURE UNDER CONSTRUCTION EXCEPT SHORING HAS SUFFICIENT STRENGTH TO SUPPORT, SAFELY, ITS SELF-WEIGHT AND LOADS PLACED THEREON.
 51. 8. SUFFICIENT STRENGTH OF THE STRUCTURE BEING CONSIDERED IS OBTAINED WHEN THE CONCRETE STRENGTH HAS REACHED ITS DESIGN STRENGTH THROUGH APPROVED TESTING.
 52. H. CONCRETE TESTING
 53. 1. CONCRETE SHALL BE TESTED IN ACCORDANCE TO ASTM C172, ASTM C31, ASTM C38, ASTM D3665, AND ACI 214R, ALL LATEST EDITION.
 54. 2. FREQUENCY OF SAMPLES FOR STRENGTH TESTING OF EACH CLASS OF CONCRETE SHALL BE:
 - a. ONCE EACH DAY A GIVEN CLASS IS PLACED.
 - b. ONCE FOR EACH 150 CYD OF EACH CLASS PLACED EACH DAY.
 - c. FOR SLABS OR WALLS LESS THAN OR EQUAL TO 9 3/4" THICK, SAMPLING SHALL BE ONCE FOR EACH 5000 SQ FT OF SLAB OR WALL SURFACE AREA (ONE SIDE ONLY) PLACED EACH DAY. FOR SLABS OR WALLS GREATER THAN 9 3/4" THICK, SAMPLING SHALL BE ONCE FOR EACH 2000 SQ FT OF SLAB OR WALL SURFACE AREA (ONE SIDE ONLY) PLACED EACH DAY.
 55. 3. CONCRETE TESTING SHALL BE THREE SETS OF CYLINDERS. ONE SET CONSISTS OF THREE 4 IN X 8 IN CYLINDERS TESTED FOR COMPRESSION AT 7 DAYS AND THREE 4 IN X 8 IN CYLINDERS AT 28 DAYS.
 56. 4. WHERE THE TOTAL VOLUME OF CONCRETE FOR A GIVEN CLASS OF CONCRETE WOULD BE LESS THAN FIVE TESTS, PROVIDE A TEST FOR EACH BATCH.
 57. 5. LABORATORY AND FIELD TECHNICIANS SHALL BE CERTIFIED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI "CONCRETE FIELD TESTING TECHNICIAN-GRADE 1 CERTIFICATION PROGRAM" OR THE REQUIREMENTS OF ASTM C1017 OR AN EQUIVALENT PROGRAM.
 58. 6. TEST REPORTS SHOULD BE PROMPTLY DISTRIBUTED TO THE OWNER, ARCHITECT, ENGINEER, GENERAL CONTRACTOR, SUB-CONTRACTORS, SUPPLIERS, AND BUILDING OFFICIAL TO ALLOW EITHER COMPLIANCE OR THE NEED FOR CORRECTIVE ACTION.
 59. 7. STRENGTH LEVEL OF AN INDIVIDUAL CLASS OF CONCRETE SHALL MEET THE FOLLOWING CRITERIA:
 - a. THE AVERAGE OF THREE CONSECUTIVE STRENGTH TESTS SHALL BE EQUAL TO OR EXCEED THE DESIGN STRENGTH f_c .
 - b. THE AVERAGE OF THE STRENGTHS OF EACH TEST SHALL NOT FALL BELOW THE DESIGN STRENGTH f_c BY MORE THAN 500 PSI FOR $f_c \leq 5000$ PSI OR BY 0.1% FOR $f_c > 5000$ PSI.
 - c. IF THE CRITERIA ABOVE IS NOT MET, THREE CORE DRILLED SAMPLES IN THE AREA OF QUESTION SHALL BE TAKEN, AT THE EXPENSE OF THE GENERAL CONTRACTOR, FOR EACH STRENGTH TEST THAT FAILS TO MEET THE CRITERIA. TESTING OF CORE DRILLED SAMPLES SHALL BE IN ACCORDANCE TO ASTM C42.
 60. 8. CORE DRILLED SAMPLES SHALL BE TESTED NO EARLIER THAN 48 HOURS AND NOT LATER THAN 7 DAYS AFTER CORING.

REINFORCED CONCRETE (CONT):

- I. PLACEMENT OF CONCRETE
1. READY-MIXED CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE TO ASTM C94.
 2. CONCRETE SHALL BE CONVEYED FROM MIXER TO PLACE OF FINAL DEPOSIT BY METHODS THAT WILL PREVENT SEPARATION OF MATERIALS. CONCRETE SHALL BE DEPOSITED AT OR NEAR ITS FINAL POSITION BY THE USE OF PUMPS, TREMIES, AND OTHER MEANS AND METHODS.
 3. DO NOT ALLOW CONCRETE TO FREE FALL MORE THAN 3 FEET DURING PLACEMENT.
 4. ALL CONCRETE PLACEMENT IS PERMITTED WHEN THE TEMPERATURE OF FRESH CONCRETE IS GREATER THAN OR EQUAL TO 95°F.
 5. 7. WHEN THE AMBIENT TEMPERATURE IS PERMITTED DURING RAIN FALL.
 6. COLD WEATHER REQUIREMENTS:
 - a. WHEN THE AMBIENT TEMPERATURE IS BELOW 50°F, PLACEMENT OF CONCRETE SHALL BE IN ACCORDANCE TO ACI 308R.
 - b. ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND PROTECTING CONCRETE DURING FREEZING OR NEAR-FREEZING WEATHER.
 - c. ALL CONCRETE POURING, FORMS, FILLERS, AND GROUND WITH WHICH CONCRETE IS TO COME IN CONTACT SHALL BE FREE OF FROST.
 9. HOT WEATHER REQUIREMENTS:
 - a. WHEN THE AMBIENT TEMPERATURE EQUALS OR EXCEEDS 80°F, PLACEMENT OF CONCRETE SHALL BE IN ACCORDANCE TO ACI 308R.
 - b. PROPER ATTENTION SHALL BE GIVEN TO CONCRETE MIX, PRODUCTION METHODS, HANDLING, PLACING, PROTECTION, CURING TO PREVENT EXCESSIVE CONCRETE TEMPERATURES OR WATER EVAPORATION THAT COULD IMPAIR THE REQUIRED DESIGN STRENGTH.
 - c. NON-TOXIC EVAPORATION RETARDERS ARE ACCEPTABLE PROVIDED THE PRODUCT DOES NOT IMPAIR THE REQUIRED DESIGN STRENGTH. WHEN USED, THE GENERAL CONTRACTOR MUST EXERCISE PROPER SAFETY MEASURES.
 10. ALL EXPOSED CONCRETE SHALL HAVE A SMOOTH FINISH SURFACE. EXPOSED CONCRETE SURFACES WITH SPALLS, CHIPS, CRACKS, HONEYCOMBS, DISCOLORATION, AND OTHER IMPERFECTIONS SHALL BE PATCHED WITH A FAST-SETTING, READY-TO-USE, CEMENTITIOUS POLYMER-MODIFIED REPAIR MORTAR THAT SHALL MEET ALL THE FOLLOWING CRITERIA:
 - a. MINIMUM COMPRESSIVE STRENGTH = 5000 PSI @ 28 DAYS IN ACCORDANCE WITH ASTM C109
 - b. MINIMUM FLEXURAL STRENGTH = 1100 PSI @ 28 DAYS IN ACCORDANCE WITH ASTM C293
 - c. MINIMUM BOND STRENGTH = 1800 PSI @ 28 DAYS IN ACCORDANCE WITH ASTM C882
 - d. COLOR = CONCRETE GRAY
 - e. WET MIX DENSITY ≤ 110 PCF
 - f. TOLERANCES
 11. ALL CONCRETE TOLERANCES SHALL COMPLY WITH ACI 117, "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS" LATEST EDITION.
 12. ALL SLAB-ON-GRADES AND SUSPENDED FLOOR SLABS SHALL BE TESTED FOR FLOOR FLATNESS AND FLOOR LEVELNESS IN ACCORDANCE TO ASTM E1155 UTILIZING THE FAUBERT METHOD. THE SLAB-ON-GRADE AND SUSPENDED FLOOR SLABS MEASURED F-NUMBERS SHALL MEET THE FOLLOWING CLASSIFICATION:
 - a. SPECIFIED OVERALL FLOOR FLATNESS (SOFF): 20
 - b. SPECIFIED OVERALL FLOOR LEVELNESS (SOFL): 25
 - c. MINIMUM LOCAL FLOOR FLATNESS (MLFF): 0.80" OFF
 - d. MINIMUM LOCAL FLOOR LEVELNESS (MLFL): 0.80" OFF
 13. F-NUMBERS SHALL BE MEASURED WITHIN 7 HOURS OF PLACING THE SLAB.
 - a. WHERE DEFICIENCIES ARE DETECTED, REMEDIATION TO THE DEFICIENT AREA WILL BE REQUIRED AT THE EXPENSE OF THE GENERAL CONTRACTOR. REMEDIAL PROCEDURES SHALL BE AS BUT NOT LIMITED TO: GRINDING OR THE USE OF A SELF-LEVELING UNDERLAYMENT SHALL BE DETERMINED BY THE CONTRACTOR TO BRING THE DEFICIENT AREA IN COMPLIANCE WITH MINIMUM TOLERANCES.
 - b. IN ALL INSTANCES, THE MINIMUM SLAB WALL THICKNESS, BEAM DEPTHS AND WIDTHS, COLUMN DIMENSIONS, SHALL BE OBTAINED, COORDINATE SLAB FINISHES WITH ARCHITECTURAL PLANS.
 14. PLACEMENT OF REINFORCEMENT
 15. 1. ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. REFERENCE "REINFORCING STEEL" NOTES FOR ADDITIONAL INFORMATION.
 16. 2. SLAB-ON-GRADE:
 - a. REINFORCEMENT SHALL BE CONTINUOUS ACROSS THE ENTIRE CONCRETE SURFACE UNLESS NOTED OTHERWISE.
 - b. PROVIDE 2 BARS, SAME SIZE AND SPACING AND IN THE APPLICABLE DIRECTION WHERE THE SLAB STEPS DOWN MORE THAN 2". THE 2 BARS SHALL LAP THE MAIN SLAB REINFORCING STEEL AS NEEDED.
 17. 3. GRADE BEAMS, CONTINUOUS WALL FOOTINGS, AND SPREAD FOOTINGS:
 - a. REINFORCEMENT SHALL BE CONTINUOUS ACROSS THE ENTIRE PROFILE UNLESS NOTED OTHERWISE.
 - b. PROVIDE CORNER BARS, TOP AND BOTTOM, AT ALL BEAM CORNERS AND DEAD END BEAM INTERSECTIONS. REFERENCE APPLICABLE DETAILS FOR ADDITIONAL INFORMATION. BARS TO EQUAL SIZE AND QUANTITY OF THE NOTED BARS SHALL BE USED.
 - c. EXTEND THE SLAB REINFORCING STEEL, PERPENDICULAR TO BEAM, TO THE TOP OUTSIDE REINFORCING BAR OF THE PERIMETER BEAMS. START THE SLAB REINFORCING STEEL, PARALLEL TO THE BEAM, NOT MORE THAN 8" FROM THE TOP INSIDE REINFORCING BAR OF PERIMETER BEAMS.
 - d. VERTICAL REINFORCEMENT SHALL BE TIED AND FIXED IN POSITION AT THE TOP AND BOTTOM AND AT INTERMEDIATE LOCATIONS, SPACED NOT GREATER THAN 18 INCHES ON CENTER.
 18. 4. DRILLED PIERS:
 - a. REINFORCEMENT SHALL BE CONTINUOUS ACROSS THE ENTIRE PROFILE UNLESS NOTED OTHERWISE.
 19. 5. SUSPENDED SLAB (ONE-WAY):
 - a. REINFORCEMENT SHALL BE CONTINUOUS ACROSS THE ENTIRE CONCRETE SURFACE. DESIGN REINFORCING IS PLACED PARALLEL TO THE DIRECTION OF SPAN. TEMPERATURE STEEL IS PROVIDED PERPENDICULAR TO THE DIRECTION OF THE SPAN.
 - b. WHERE LAP SPLICES OF BARS ARE REQUIRED, LOCATE BOTTOM BAR LAP SPLICES OVER CONCRETE BEAMS OR GIRDERS, AND LOCATE TOP BAR LAP SPLICES AT MIDSPAN IN BETWEEN BEAMS.
 - c. REFERENCE TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS.
 20. 6. SUSPENDED SLAB (TWO-WAY):
 - a. TOP AND BOTTOM REINFORCING MATS SHALL BE CONTINUOUS EACH WAY UNLESS NOTED OTHERWISE.
 - b. ADDITIONAL BARS ARE SHOWN ON THE DRAWINGS.
 - c. WHERE LAP SPLICES OF BARS ARE REQUIRED, LOCATE BOTTOM BAR LAP SPLICES CENTERED TO THE COLUMN STRIPS, AND TOP BAR LAP SPLICES CENTERED TO THE MIDDLE STRIPS IN EACH DIRECTION.
 - d. REFERENCE DETAILS FOR ADDITIONAL REQUIREMENTS.
 21. 7. BEAMS AND GIRDERS:
 - a. REFERENCE REINFORCING SCHEDULE FOR LONGITUDINAL BAR PLACEMENT. BARS ARE TO BE CONTINUOUS UNLESS NOTED OTHERWISE.
 - b. REFERENCE TYPICAL DETAILS FOR BAR LAP SPLICES. LOCATE LAP SPLICES OF BOTTOM BARS CENTERED OVER SUPPORTS, AND LOCATE TOP BARS CENTERED AT MIDSPAN IN BETWEEN SUPPORTS.
 - c. REFERENCE DETAILS FOR ADDITIONAL REQUIREMENTS.
 22. 8. COLUMNS:
 - a. PROVIDE CONTINUOUS LONGITUDINAL REINFORCING EQUALLY SPACED.
 - b. WHEN REQUIRED, LAP SPICE LONGITUDINAL REINFORCING WITH A CLASS B TENSION LAP SPICE.
 - c. REFERENCE DETAILS FOR ADDITIONAL REQUIREMENTS.
 23. 9. WALLS:
 - a. PROVIDE CONTINUOUS REINFORCING IN BOTH DIRECTIONS AND IN EACH FACE WHERE APPLICABLE.
 - b. AT HORIZONTAL CONSTRUCTION JOINTS (CONSTRUCTION LIFTS), VERTICAL BARS MUST PROJECT THE LAP SPICE LENGTH AS SCHEDULED AS A MINIMUM LENGTH. THE CONTRACTOR MUST COORDINATE BAR PLACEMENTS TO AVOID OVER-REINFORCING THE CONCRETE WALL.
 - c. REFERENCE DETAILS FOR ADDITIONAL INFORMATION.
 24. 10. DOWELS:
 - a. WALLS, PLASTERS, AND COLUMNS SHALL BE DOWELED TO THE SUPPORTING FOOTINGS WITH REINFORCEMENT AS SCHEDULED OF THE SAME SIZE, GRADE AND AT THE SAME SPACING AS THE VERTICAL REINFORCEMENT IN THE WALLS, PLASTERS, OR COLUMNS UNLESS NOTED OTHERWISE.

REINFORCED CONCRETE (CONT):

11. TOPPING SLABS:
 - a. PROVIDED WELDED WIRE REINFORCING 6X6-W2-KW2-9 IN ALL TOPPING SLABS UNLESS NOTED OTHERWISE.- 12. HOUSEKEEPING PADS:
 - a. PROVIDED #3 AT 12" ON CENTER EACH WAY IN ALL HOUSEKEEPING PADS THAT SUPPORT MECHANICAL EQUIPMENT.
- 13. LAP RETARDER:
 - a. REFERENCE DRAWINGS FOR LOCATION AND EXTENTS OF VAPOR RETARDERS. FOR SLAB-ON-GRADE FOUNDATIONS, A VAPOR RETARDER IS TO BE INSTALLED OVER APPROVED SELECT FILL UNLESS NOTED OTHERWISE.
 - b. FOR ALL CONDITIONS, THE VAPOR RETARDER SHALL CONFORM TO ASTM E1745, CLASS A AND SHALL HAVE A MINIMUM WATER VAPOR PERMEANCE OF 0.01 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E96. THE VAPOR RETARDER SHALL NOT BE LESS THAN 15 MILS THICK.
- 14. 3. PRE-APPROVED PRODUCTS:
 - a. STEGO WRAP 15 MIL VAPOR BARRIER (CLASS A).
 - b. OTHERS PROPOSED BY SUBMITTAL PROCESS.
- 15. 4. INSTALLATION:
 - a. LAY SHEETS SMOOTHLY, STRETCH AND WEIGHT EDGES, LAP JOINTS AND SEAL WITH TAPE AS SPECIFIED BY THE VAPOR RETARDER MANUFACTURER. TURN THE RETARDER UP AT WALLS AND AT ALL PIPES, ABUTMENTS, ETC., AND TAPE AND SEAL AT PENETRATIONS AND AT EDGES AS SPECIFIED BY THE VAPOR RETARDER MANUFACTURER.
- 16. 5. PATCHING:
 - a. PATCH ALL PUNCTURES WITH A MINIMUM OVERLAP OF 6" IN ALL DIRECTIONS AND TAPE AROUND THE ENTIRE PERIMETER OF REPAIR.
- 17. 16. PRE-INSTALLATION CONFERENCE:
 - a. AT LEAST 30 DAYS PRIOR TO THE START OF THE CONCRETE CONSTRUCTION SCHEDULE, THE CONTRACTOR SHALL CONDUCT A MEETING TO REVIEW THE PROPOSED MIX DESIGNS AND TO DISCUSS THE REQUIRED METHODS AND PROCEDURES TO ACHIEVE THE REQUIRED CONCRETE CONSTRUCTION. THE CONTRACTOR SHALL SEND A PRE-INSTALLATION CONFERENCE AGENDA TO ALL ATTENDEES 20 DAYS PRIOR TO THE SCHEDULED DATE OF THE CONFERENCE.
 - b. THE CONTRACTOR SHALL REQUIRE RESPONSIBLE REPRESENTATIVES OF EVERY PARTY CONCERNED WITH THE CONCRETE WORK TO ATTEND THE CONFERENCE, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - i. GENERAL CONTRACTOR'S SUPERINTENDENT
 - ii. LABORATORY RESPONSIBLE FOR CONCRETE MIXES AND/OR FIELD QUALITY CONTROL
 - iii. READY-MIX CONCRETE PRODUCER
 - iv. CONCRETE SUB-CONTRACTOR
 - v. JOINT FILLING APPLICATOR
 - c. MINUTES OF THE MEETING SHALL BE RECORDED, TYPED AND PRINTED BY THE CONTRACTOR AND DISTRIBUTED TO ALL CONCERNED PARTIES, INCLUDING THE OWNER'S REPRESENTATIVE, THE ARCHITECT, AND THE STRUCTURAL ENGINEER WITHIN FIVE DAYS OF THE MEETING.
- 18. N. CONCRETE SUB-CONTRACTOR QUALIFICATION:
 - a. THE CONCRETE SUB-CONTRACTOR SHALL INCLUDE IN THEIR BID PACKAGE TO THE GENERAL CONTRACTOR SUFFICIENT DATA THAT CLEARLY INDICATES THE CONCRETE CONTRACTOR'S ABILITY TO SUCCESSFULLY PERFORM THE WORK AND TO ACHIEVE THE TOLERANCES SPECIFIED IN THIS SECTION.

- O. CONCRETE CURING
1. CONCRETE SHALL BE MAINTAINED ABOVE 50°F AT ALL TIMES.
 2. CONCRETE, OTHER THAN HIGH-EARLY STRENGTH CONCRETE, SHALL BE IN MOIST CONDITION FOR AT LEAST 7 DAYS.
 3. HIGH-EARLY STRENGTH CONCRETE SHALL BE IN MOIST CONDITION FOR AT LEAST 3 DAYS.
 4. EXTERIOR CURING: ALL EXTERIOR CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE-FORMING CURING COMPOUND. THE LIQUID MEMBRANE-FORMING CURING COMPOUND SHALL MEET THE REQUIREMENTS OF ASTM C1315 WITH A MAXIMUM VOLATILE ORGANIC CONTENT (VOC) OF 700 g/L.
 5. INTERIOR CURING: ALL INTERIOR CONCRETE SLABS SHALL BE CURED USING A REDUCED ODOR, DISSIPATING LIQUID MEMBRANE-FORMING CURING COMPOUND THAT IS FORMULATED FROM LIQUID MEMBRANE-FORMING CURING COMPOUND SHALL MEET THE REQUIREMENTS OF ASTM C309 WITH A MAXIMUM VOLATILE ORGANIC CONTENT (VOC) OF 350 g/L. APPLY AT 400 PSF/AL ON.
 6. CURING COMPOUNDS SHALL BE PLACED WITHIN 4 HOURS AFTER PLACEMENT OF CONCRETE.
 7. FOR POLISHED SLAB FINISHES, PROVIDE BURLAP MEMBRANES DURING ENTIRE CONSTRUCTION OF THE BUILDING. DO NOT PROVIDE CURING COMPOUND.
- P. CONSTRUCTION JOINTS IN SLAB-ON-GRADE
1. FORM 1/8" WEAKENED-PLANE CONSTRUCTION JOINTS SPACED NOT FURTHER THAN 15'-0" ON CENTER EACH WAY. SECTION CONCRETE INTO AREAS AS INDICATED IN THE DRAWINGS.
 2. CONSTRUCT CONSTRUCTION JOINTS FOR A DEPTH EQUAL TO AT LEAST 1/4 OF THE CONCRETE THICKNESS.
 3. SAWED JOINTS: ALL SAW CUTTING SHALL BE ACCOMPLISHED WITH A SOFT-CUT SAW AS SOON AS THE SLAB WILL SUPPORT THE WEIGHT OF THE SAW AND OPERATOR.
 4. CONCRETE DUST SHALL BE REMOVED COMPLETELY AND IMMEDIATELY.
 5. ALL CONSTRUCTION JOINTS SHALL BE CAULKED WITH AN EFFECTIVE SEALANT THAT CAN BOND TO THE CONCRETE. IS IMPERMEABLE, AND ABLE TO WITHSTAND THERMAL EXPANSION AND CONTRACTION.

- O. CONCRETE PROTECTION
1. SLAB PROTECTION:
 - a. FOR ALL MOTORIZED AND HYDRAULIC EQUIPMENT PREVENT FLUID LEAKS.
 - b. PROVIDE NON-MARKING TIRES ON RUBBER TIED VEHICLES OR EQUIP RUBBER TIRES WITH TIRE BOOTS MADE OF NYLON FABRIC.
 - c. PROVIDE MATS AT ALL ENTRANCES TO PREVENT MUD STAINS.
 - d. COVER SLAB PRIOR TO PAINTING. ALL SPILLS ARE TO BE CLEARED WITH SOAP AND WATER.
 2. CONCRETE COVER:
 - a. REINFORCING STEEL COVERAGE SHOULD CONFORM TO THE REQUIREMENTS OF THE ACI 318 (EDITION IN THE DESIGN CRITERIA SECTION 7.7 AND THE DETAILS.
 - b. INCREASE COVER TO MAINTAIN THE MINIMUM SPECIFIED WHERE REINFORCING STEEL INTERSECTS FOR DIFFERENT MEMBER TYPES.
 3. THE REINFORCING STEEL DETAILER SHALL ADJUST REINFORCING STEEL COVERAGE SIZES AT INTERSECTING STRUCTURAL MEMBERS AS REQUIRED TO ALLOW CLEARANCE FOR INTERSECTING REINFORCING BAR LAYERS WITH MINIMUM SPECIFIED COVER.
 4. MINIMUM CONCRETE COVER FOR REINFORCING AS FOLLOWS:
 - a. ALL CONCRETE CAST AND PERMANENTLY EXPOSED TO EARTH: 3"
 - b. CONCRETE EXPOSED TO EARTH OR WEATHER: 2"
 - c. #6 THROUGH #18: 2"
 - d. #5, W31 OR D31, AND SMALLER: 1-1/2"
 - e. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: 1-1/2"
 - f. SLABS, WALLS, JOISTS: 1-1/2"
 - g. #14 THROUGH #18: 1-1/2"
 - h. #11 AND SMALLER: 1-1/2"
 - i. BEAMS, COLUMNS: 1-1/2"

CLASSES OF CONCRETE MATRIX

CONCRETE USAGE	MINIMUM COMPRESSIVE STRENGTH, f_c	CONCRETE WEIGHT	EXPOSURE CLASS	MAXIMUM WATER/CEMENT RATIO	MAXIMUM AGGREGATE SIZE (IN)	MAXIMUM SLUMP (IN)	REMARKS
SHALLOW FOUNDATIONS							
SPREAD FOOTINGS	3000 PSI @ 28 DAYS	NWC	C1	0.5	1"	5"	
WALL FOOTINGS	3000 PSI @ 28 DAYS	NWC	C1	0.5	1"	5"	
SLAB-ON-GRADE	3000 PSI @ 28 DAYS	NWC	C1	0.5	1"	5"	
MISCELLANEOUS							
HOUSEKEEPING PADS	3000 PSI @ 28 DAYS	NWC	C1	0.5	1"	5"	
ALL OTHER CONCRETE	3000 PSI @ 28 DAYS	NWC	C1	0.5	1"	5"	

NOTES:

1. ALL CONCRETE COMPRESSIVE STRENGTHS NOTED IN THE TABLE ABOVE ARE THE MINIMUM COMPRESSIVE STRENGTH f_c AT 28-DAYS UNLESS NOTED OTHERWISE.
2. ALL MIXES SHALL HAVE A MINIMUM OF 5 SACKS (470 LBS) OF CEMENTITIOUS MATERIAL PER CUBIC YARD REGARDLESS OF STRENGTH OBTAINED.
3. ALL CONCRETE SHALL BE CONSIDERED TO BE IN EXPOSURE F0, S0, P0, AND C0 ACCORDING TO ACI 318 UNLESS NOTED OTHERWISE IN TABLE ABOVE OR IN THE STRUCTURAL DRAWINGS.

1 CLASSES OF CONCRETE MATRIX SCHEDULE

NTS



TEXAS ARCHITECT
FIRM No. BR4247
WWW.CGSARCHITECT.COM

SEAL:

ECISD HIGH
SCHOOL
ATHLETIC
MULTI-USE
BUILDING
25-74

ROBERT VELA
HIGH SCHOOL

801 E Canton
Rd, Edinburg,
TX 78539

CLIENT:

EDINBURG CISD

REVISION:

No.	Description	Date

PROJECT #:

DRAWN BY:

CHECKED BY:

DATE: 4/28/25

GENERAL
NOTES

ADDENDUM #2

S1.2

GENERAL NOTES

VERIFICATION AND INSPECTION OF STRUCTURAL STEEL WELDING					
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	SPECIAL INSPECTOR QCI QAI	REFERENCE STANDARD	IBC REFERENCE	
YES	1. INSPECTION TASK PRIOR TO WELDING:	P	P		
YES	a. WELDING PROCEDURE CERTIFICATIONS (WPS) AVAILABLE	PP			
YES	b. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	OO			
YES	c. MATERIAL IDENTIFICATION (TYPE/GRADE)	OO			
YES	d. WELDER IDENTIFICATION SYSTEM	OO			
YES	e. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) 1) JOINT PREPARATION 2) DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) 3) CLEANLINESS (CONDITION OF STEEL SURFACES) 4) TACKING (TACK WELD QUALITY AND LOCATION) 5) BACKING TYPE AND FIT (IF APPLICABLE)	OO	AISC 360-10 TABLE N5.4.1, AWS D1.1	1705.2.1	
YES	f. CONFIGURATION AND FINISH OF ACCESS HOLES	OO			
YES	g. FIT-UP OF FILLET WELDS 1) DIMENSIONS (ALIGNMENT, GAPS AT ROOT) 2) CLEANLINESS (CONDITION OF STEEL SURFACES) 3) TACKING (TACK WELD QUALITY AND LOCATION)	OO			
YES	h. CHECK WELDING EQUIPMENT	O-			
YES	2. INSPECTION TASK DURING WELDING:	OO			
YES	a. USE OF QUALIFIED WELDERS	OO			
YES	b. CONTROL AND HANDLING OF WELDING CONSUMABLES 1) PACKING 2) EXPOSURE CONTROL	OO			
YES	c. NO WELDING OVER CRACKED TACK WELDS	OO			
YES	d. ENVIRONMENTAL CONDITIONS 1) WIND SPEED WITHIN LIMITS 2) PRECIPITATION AND TEMPERATURE	OO			
YES	e. WPS FOLLOWED 1) SETTINGS ON WELDING EQUIPMENT 2) TRAVEL SPEED 3) SELECTED WELDING MATERIALS 4) SHIELDING GAS TYPE/FLOW RATE 5) PREHEAT APPLIED 6) INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) 7) PROPER POSITION (F, V, H, OH)	OO	AISC 360-10 TABLE N5.4.2, AWS D1.1	1705.2.1	
YES	f. WELDING TECHNIQUES 1) INTERPASS AND FINAL CLEANING 2) EACH PASS WITHIN PROFILE LIMITATIONS 3) EACH PASS MEETS QUALITY REQUIREMENTS	OO			
YES	3. INSPECTION TASK AFTER WELDING:	OO			
YES	a. WELDS CLEANED	OO			
YES	b. SIZE, LENGTH AND LOCATION OF WELDS	PP			
YES	c. WELD MEET VISUAL ACCEPTANCE CRITERIA 1) CRACK PROHIBITION 2) WELD BEHIND METAL FUSION 3) CRATER CROSS SECTION 4) WELD PROFILES 5) WELD SIZE 6) UNDERCUT 7) POROSITY	PP	AISC 360-10 TABLE N5.4.3, AWS D1.1	1705.2.1	
YES	ARC STRIKES d.	PP			
YES	k-AREA a.	PP			
YES	REMOVED AND WELD TACKS REMOVED f.	PP			
YES	g. REPAIR ACTIVITIES	PP			
YES	h. DOCUMENT ACCEPTANCE OR REJECTION OF WELD JOINT OR MEMBER	PP			

NOTES:

1. QCI = FABRICATORS OR ERECTORS QUALITY CONTROL INSPECTOR RESPONSIBLE FOR WORK PERFORMED IS IN COMPLIANCE WITH THE SHOP DRAWINGS, ERECTION DRAWINGS, REFERENCE SPECIFICATIONS, CODES AND STANDARDS.
QAI = THE OWNER'S APPROVED AGENCY'S QUALITY ASSURANCE INSPECTOR (SPECIAL INSPECTOR) RESPONSIBLE FOR INSPECTION OF FABRICATED ITEMS, INSPECTION OF THE ERECTED STEEL SYSTEM, REVIEW TEST REPORTS AND CERTIFICATIONS, ITEMS NOTED IN THE TABLE ABOVE, AND FURNISHES INSPECTIONS, REPORTS, AND NONDESTRUCTIVE TESTING (NOT) REPORTS.
O = OBSERVE THESE ITEMS IN A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
P = PERFORM THE TASK FOR EACH WELDED JOINT OR MEMBER.
2. THE QAI IS NOT REQUIRED TO INSPECT FABRICATED ITEMS IF THE STEEL FABRICATOR IS DEEMED AN APPROVED FABRICATOR.
3. WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH THE QCI AND QAI, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QAI SO THAT THE INSPECTION FUNCTION IS PERFORMED BY ONLY ONE PARTY.
4. ALL FIELD WELDING, COMPLETE, AND PARTIAL JOINT PENETRATION WELDS SHALL BE SUBJECT TO NONDESTRUCTIVE TESTING (NOT) IN ACCORDANCE WITH AWS D1.1. ACCEPTANCE CRITERIA SHALL BE IN ACCORDANCE WITH THE AWS D1.1.
5. ACCEPTABLE NONDESTRUCTIVE TESTING (NOT) METHODS AS PER THE AISC 360 SPECIFICATION ARE AS FOLLOWS:
a. ULTRASONIC TESTING (UT)
b. MAGNETIC PARTICLE TESTING (MT)
c. PENETRANT TESTING (PT)
d. RADIOGRAPHIC TESTING (RT)
6. THE SPECIAL INSPECTOR SHALL BE RESPONSIBLE FOR DETERMINING THE APPROPRIATE NOT METHOD FOR EACH WELD.
7. ALL NOT PERFORMED SHALL BE DOCUMENTED INTO A REPORT AND SHALL INCLUDE THE FOLLOWING:
a. LOCATION OF THE TESTED WELD
b. PRECE MARK
c. LOCATION OF THE PIECE

VERIFICATION AND INSPECTION OF STEEL FRAMING					
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	SPECIAL INSPECTOR QCI QAI	REFERENCE STANDARD	IBC REFERENCE	
YES	1. VERIFY FABRICATED STEEL IS IN COMPLIANCE WITH THE SHOP DRAWINGS	PO			
YES	2. VERIFY ERECTED STEEL IS IN COMPLIANCE WITH THE ERECTION DRAWINGS	PO			
YES	3. INSPECTION DURING PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS	-P	AISC 360-10 N5.7	1705.2.1	
YES	4. VERIFY DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM AND THE EXTENT OR DEPTH OF EMBEDMENT INTO CONCRETE PRIOR TO PLACEMENT OF CONCRETE	-P			

NOTES:

1. QCI = FABRICATORS OR ERECTORS QUALITY CONTROL INSPECTOR RESPONSIBLE FOR WORK PERFORMED IS IN COMPLIANCE WITH THE SHOP DRAWINGS, ERECTION DRAWINGS, REFERENCE SPECIFICATIONS, CODES AND STANDARDS.
QAI = THE OWNER'S APPROVED AGENCY'S QUALITY ASSURANCE INSPECTOR (SPECIAL INSPECTOR) RESPONSIBLE FOR INSPECTION OF FABRICATED ITEMS, INSPECTION OF THE ERECTED STEEL SYSTEM, REVIEW TEST REPORTS AND CERTIFICATIONS, ITEMS NOTED IN THE TABLE ABOVE, AND FURNISHES INSPECTIONS, REPORTS, AND NONDESTRUCTIVE TESTING (NOT) REPORTS.
O = OBSERVE THESE ITEMS IN A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
P = PERFORM THE TASK FOR EACH STEEL ELEMENT.
2. THE QAI IS NOT REQUIRED TO INSPECT FABRICATED ITEMS IF THE STEEL FABRICATOR IS DEEMED AN APPROVED FABRICATOR.
3. WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH THE QCI AND QAI, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QAI SO THAT THE INSPECTION FUNCTION IS PERFORMED BY ONLY ONE PARTY.
4. AS A MINIMUM, THE DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR RODS OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE SHALL BE VERIFIED PRIOR TO PLACEMENT OF CONCRETE.

VERIFICATION AND INSPECTION OF STRUCTURAL STEEL BOLTING					
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	SPECIAL INSPECTOR QCI QAI	REFERENCE STANDARD	IBC REFERENCE	
YES	1. INSPECTION TASK PRIOR TO BOLTING:	OP			
YES	a. MANUFACTURERS CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	OO			
YES	b. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	OO			
YES	c. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	OO			
YES	d. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O	AISC 360-10 TABLE N5.6-1	1705.2.1
YES	e. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	OO			
YES	f. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL, OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	PO			
YES	g. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	OO			
YES	2. INSPECTION TASK DURING BOLTING:	OO			
YES	a. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	OO			
YES	b. JOINT BROUGHT TO THE SNUG-TIGHT POSITION CONDITION PRIOR TO THE PRETENSIONING OPERATION	OO		AISC 360-10 TABLE N5.6-2	1705.2.1
YES	c. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	OO			
YES	d. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	OO			
YES	3. INSPECTION TASK AFTER BOLTING:				
YES	a. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	PP		ASC 360-10 TABLE N5.6.1	1705.2.1

NOTES:

1. QCI = FABRICATORS OR ERECTORS QUALITY CONTROL INSPECTOR RESPONSIBLE FOR WORK PERFORMED IS IN COMPLIANCE WITH THE SHOP DRAWINGS, ERECTION DRAWINGS, REFERENCE SPECIFICATIONS, CODES AND STANDARDS.
QAI = THE OWNER'S APPROVED AGENCY'S QUALITY ASSURANCE INSPECTOR (SPECIAL INSPECTOR) RESPONSIBLE FOR INSPECTION OF FABRICATED ITEMS, INSPECTION OF THE ERECTED STEEL SYSTEM, REVIEW TEST REPORTS AND CERTIFICATIONS, ITEMS NOTED IN THE TABLE ABOVE, AND FURNISHES INSPECTIONS, REPORTS, AND NONDESTRUCTIVE TESTING (NOT) REPORTS.
O = OBSERVE THESE ITEMS IN A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
P = PERFORM THE TASK FOR EACH BOLTED CONNECTION.
2. THE QAI IS NOT REQUIRED TO INSPECT FABRICATED ITEMS IF THE STEEL FABRICATOR IS DEEMED AN APPROVED FABRICATOR.
3. WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH THE QCI AND QAI, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QAI SO THAT THE INSPECTION FUNCTION IS PERFORMED BY ONLY ONE PARTY.

VERIFICATION AND INSPECTION OF WIND-RESISTING COMPONENTS					
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	INSPECTION FREQUENCY CONTINUOUS PERIOD	REFERENCE STANDARD	IBC REFERENCE	
YES	1. ROOF CLADDING	-	X	-	
YES	2. WALL CLADDING	-	X	-	1705.10.3

NOTES:

1. PERIODIC SPECIAL INSPECTION OF WIND-RESISTING COMPONENTS IS REQUIRED IF ONE OF THE FOLLOWING CRITERIA IS MET:
a. IN WIND EXPOSURE B, WHERE $V_{max} \geq 120$ MPH
b. IN WIND EXPOSURE C OR D, WHERE $V_{max} \geq 110$ MPH

VERIFICATION AND INSPECTION OF SOILS					
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	INSPECTION FREQUENCY CONTINUOUS PERIOD	REFERENCE STANDARD	IBC REFERENCE	
YES	1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	-	X	-	
YES	2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIALS	-	X	-	
YES	3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	-	X	-	1705.6
YES	4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	-	-	
YES	5. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIALS	-	X	-	

NOTES:

1. SPECIAL INSPECTION AND TESTING PROCEDURES OF EXISTING SOIL CONDITIONS, EXCAVATION, FILL PLACEMENT, AND LOAD BEARING REQUIREMENTS SHALL BE BASED ON THE APPROVED GEOTECHNICAL REPORT AND THE CONTRACT DOCUMENTS.

VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION					
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	INSPECTION FREQUENCY CONTINUOUS PERIOD	REFERENCE STANDARD	IBC REFERENCE	
YES	1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT	-	X	ACI 318, 3.5.13-1.7	1910.4
YES	2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 2b	-	-	AWS D14.4 Q3 318 352	-
YES	3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED	-	X	ACI 318, 8.1.3, 21.2.8	1908.5, 1909.1
YES	4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDEN CONCRETE MEMBERS:				
YES	a. SPECIAL INSPECTOR CERTIFIED ADHESIVE ADHESIVE ANCHOR INSTALLER	X	-		
YES	b. ADHESIVE ANCHOR INSTALLATION REPORT INDICATING CONFORMANCE TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI)	X	-	ACI 318, APPENDIX D	1909.1
YES	c. INSTALLATION OF MECHANICAL ANCHORS	X	-		
YES	d. POST-INSTALLED ANCHOR INSTALLERS CERTIFICATIONS AVAILABLE	X	-		
YES	5. VERIFYING USE OF REQUIRED DESIGN MIX	-	X	ACI 318, 5.2.4.4, 5.2.4.4	1904.2, 1910.2, 1910.3
YES	6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	-	ASTM C172, ASTM C31, ACI 318, 5.8.5.8	1910.10
YES	7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	-	ACI 318, 5.9, 5.10	1910.6, 1910.7, 1910.8
YES	8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	-	X	ACI 318, 5.11-5.13	1910.9
NO	9. INSPECTION OF PRESTRESSED CONCRETE:				
NO	a. APPLICATION OF PRESTRESSING FORCES	X	-	ACI 318, 19.2b	-
NO	b. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEGMENTED FORCE-RESISTING SYSTEM	X	-	ACI 318, 19.16.4	-
YES	10. ERECTION OF PRECAST CONCRETE MEMBERS	-	X	ACI 318, 19.16	-
NO	11. VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	-	X	ACI 318, 8.2	-
YES	12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	-	X	ACI 318, 6.1.1	-

VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL					
SPECIAL INSPECTION	VERIFICATION AND INSPECTION TASK	SPECIAL INSPECTOR QCI QAI	REFERENCE STANDARD	IBC REFERENCE	
YES	1. INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT	PP			1705.2.2
YES	a. VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS	PP		SD QAOCC TABLE 1.1	
YES	b. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND ACCESSORIES DECK	P	P		
YES	2. INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT	P	P		
YES	a. VERIFY COMPLIANCE OF DECK AND ALL ACCESSORIES INSTALLATION WITH CONSTRUCTION DECK DOCUMENTS	P	P		
YES	b. VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS	-	P	SD QAOCC TABLE 1.2	1705.2.2
YES	c. DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES	P	P		
YES	3. INSPECTION OR EXECUTION TASKS PRIOR TO WELDING	O	O		
YES	a. WELDING PROCEDURE CERTIFICATIONS (WPS) AVAILABLE	O	O	SD QAOCC TABLE 1.3	1705.2.2
YES	b. MANUFACTURER CERTIFICATIONS FOR CONSUMABLES AVAILABLE WELDING	O	O		
YES	c. MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O		
YES	d. CHECK WELDING EQUIPMENT	O	O		
YES	4. INSPECTION OR EXECUTION TASKS DURING WELDING	O	O		
YES	a. USE OF QUALIFIED WELDERS	O	O		
YES	b. CONTROL AND HANDLING OF WELDING CONSUMABLES	O	O	SD QAOCC TABLE 1.4	1705.2.2
YES	c. ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)	O	O		
YES	d. WPS FOLLOWED	O	O		
YES	5. INSPECTION OR EXECUTION TASKS AFTER WELDING	P	P		
YES	a. VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDE LAP AND PERIMETER WELDS	P	P	SD QAOCC TABLE 1.5	1705.2.2
YES	b. WELDS MEET VISUAL ACCEPTANCE CRITERIA	P	P		
YES	c. VERIFY REPAIR ACTIVITIES	P	P		
YES	d. DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	P	P		
YES	6. INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING	O	O		
YES	a. MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	O	O	SD QAOCC TABLE 1.6	1705.2.2
YES	b. PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	O	O		
YES	c. PROPER STORAGE FOR MECHANICAL FASTENERS	O	O		
YES	7. INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING	O	O	SD QAOCC TABLE 1.7	1705.2.2
YES	a. FASTENERS ARE POSITIONED AS REQUIRED	O	O		
YES	b. FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	O	O		
YES	8. INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING	P	P		
YES	a. CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS	P	P		
YES	b. CHECK SPACING, TYPE, AND INSTALLATION OF SIDE LAP FASTENERS	P	P	SD QAOCC TABLE 1.8	1705.2.2
YES	c. CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS	P	P		
YES	d. VERIFY REPAIR ACTIVITIES	P	P		
YES	e. DOCUMENT ACCEPTANCE OR REJECTION OF FASTENERS MECHANICAL	P	P		

NOTES:

1. QCI= INSTALLER'S QUALITY CONTROL INSPECTOR RESPONSIBLE FOR CONFIRMING THAT THE MATERIAL PROVIDED AND WORK PERFORMED MEET THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS, INSTALLATION DRAWINGS, SHOP DRAWINGS, DESIGN DOCUMENTS, AND REFERENCE STANDARDS.

QAI= THE OWNER'S APPROVED AGENCY'S QUALITY ASSURANCE INSPECTOR (SPECIAL INSPECTOR) RESPONSIBLE FOR INSPECTION OF MATERIALS, INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS AND CONFIRM COMPLIANCE WITH CONSTRUCTION DOCUMENTS AND REFERENCE STANDARDS.

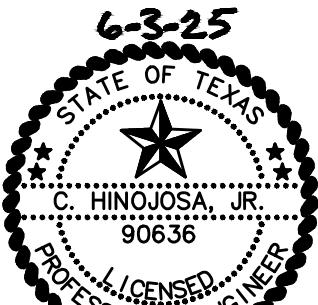
O= OBSERVE THESE ITEMS ON AN INTERMITTENT BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.

P= PERFORM THESE TASKS PRIOR TO FINAL ACCEPTANCE FOR EACH ITEM OR ELEMENT.

2. WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH THE QCI AND QAI, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QAI SO THAT THE INSPECTION FUNCTION IS PERFORMED BY ONLY ONE PARTY.

PRE-MANUFACTURED SUPERSTRUCTURE :

1. DESIGN CRITERIA
INTERNATIONAL BUILDING CODE (IBC) 2021 EDITION
ASCE 7-16
BUILDING CODE FOR THE CITY OF EDINBURG, TEXAS
MAXIMUM ALLOWABLE HORIZONTAL DRIFT OF STRUCTURE = H/400
WHERE H = MEAN HEIGHT OF STRUCTURE
DESIGN WIND SPEED = 105 MPH, EXPOSURE "C"
MINIMUM COLLATERAL LOAD = 10 PSF PLUS ROOF TOP UNITS
2. A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE OF TEXAS SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PREFABRICATED METAL BUILDING MEMBERS AND THEIR CONNECTIONS. THIS WORK SHALL ALSO INCLUDE ALL MEMBERS AND BRACES REQUIRED TO BRACE MASONRY WALLS.
3. ALL DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER AND SHALL BE SUBMITTED FOR RECORD PURPOSES UPON REQUEST.
4. THE SUPPLIER SHALL SUBMIT A SEALED LETTER STATING DESIGN CRITERIA FOR ALL WORK AND CERTIFYING THAT ALL DESIGNS ARE IN COMPLIANCE WITH APPLICABLE CODES.
5. ALL ANCHOR BOLTS SHALL BE DESIGNED BY THE METAL BUILDING SUPPLIER AND SUPPLIED BY THE CONTRACTOR. ALL ANCHOR BOLTS SHALL CONFORM TO ASTM A36. SUBMIT MILL CERTIFICATES FOR ALL BOLTS.
6. ALL BOLTS FOR STRUCTURAL CONNECTIONS OF BEAMS, GIRDERS, PURLINS, COLUMNS, BRACES, ETC. SHALL BE OF AMERICAN ORIGIN. NO EXCEPTIONS. SUBMIT MILL CERTIFICATES FOR ALL BOLTS.
7. ALL A325 BOLTS SHALL BE FULLY TENSIONED USING THE TURN OF THE NUT METHOD.
8. PROVIDE PINNED BASE CONNECTION FROM COLUMN TO FOUNDATION.
9. ALL BOLTS IN THE METAL BUILDING SHALL BE INSPECTED BY THE TESTING LAB TO CONFIRM PROPER TENSION. THE TESTING LAB SHALL INSPECT EACH AND EVERY BOLT ON THE PROJECT USING A TORQUE WRENCH.
10. SUBMIT WRITTEN REPORTS TO THE ARCHITECT.
THE MANUFACTURER'S ENGINEER MUST PERFORM SITE OBSERVATIONS DURING THE COURSE OF THE METAL BUILDING CONSTRUCTION TO CONFIRM THAT THE WORK IS PROGRESSING IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SHOP DRAWINGS. THE CONTRACTOR SHALL MAKE ALL THE CONTRACTOR SHALL MAKE ALL CORRECTIVE WORK REQUIRED TO MAKE ALL NON-COMPLIANT ITEMS ACCEPTABLE TO THE ENGINEER PRIOR TO CONTINUING WITH ANY FINISH WORK. AT THE END OF THE JOB, THE MANUFACTURER'S REGISTERED TEXAS P.E. MUST SUBMIT A SEALED LETTER TO THE OWNER AND ARCHITECT STATING THAT THE DESIGN AND CONSTRUCTION OF THE METAL BUILDING IS IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND ALL APPLICABLE CODES.
11. THIS FOUNDATION HAS BEEN DESIGNED USING ASSUMED REACTIONS FROM THE PRE-ENGINEERED BUILDING COMPONENTS AND IS FOR BID PURPOSES ONLY. THE CONTRACTOR SHALL SUBMIT BASE CONNECTION DETAILS (SIZE AND THICKNESS BASE PLATE AND DIAMETER AND LENGTH ANCHOR BOLTS) AND REACTIONS OF THE BUILDING FRAMES TO THE ENGINEER PRIOR TO CONSTRUCTION SO THE DESIGN ASSUMPTIONS CAN BE VERIFIED. DEPTH OF ANCHOR BOLTS SHALL BE SUFFICIENT.
12. ANY ADDITIONAL COST OF FOUNDATION WORK REQUIRED BY REVISIONS OF THE FOUNDATION DESIGN AFTER PRE-ENGINEERED BUILDING REACTIONS ARE SUBMITTED SHALL BE BY OTHERS.



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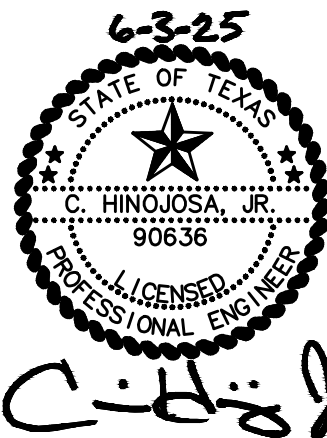
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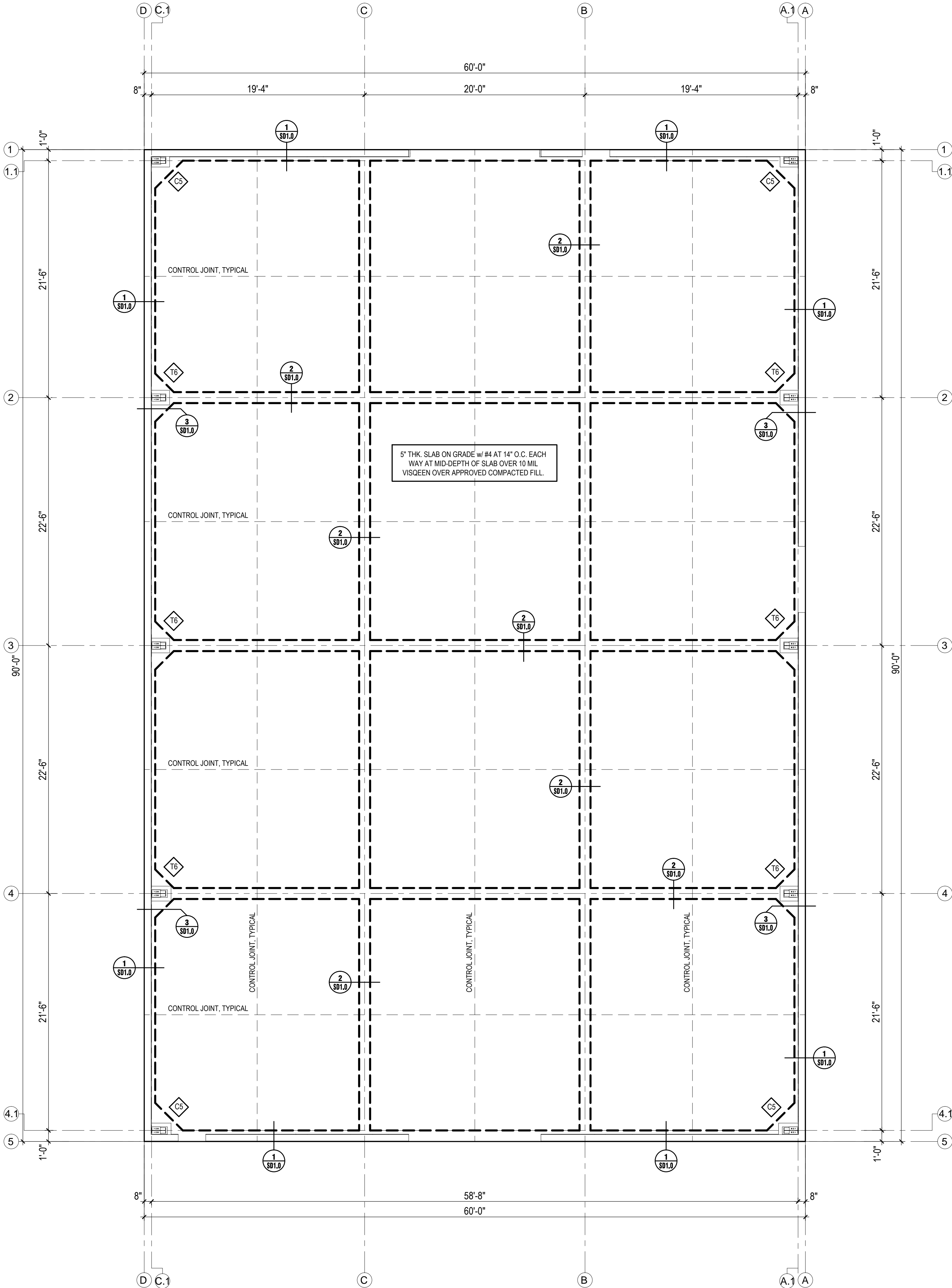
FOUNDATION
PLAN

ADDENDUM #2

S2.0



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FOUNDATION NOTES:

- SEE SHEET S1.0, S1.1, S1.2 & S1.3 FOR GENERAL NOTES.
- FOR TYPICAL DETAILS SEE SHEETS SD1.0 & SD1.1
- CONTRACTOR/SUBCONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING ANY WORK. THE CONTRACTOR AND OR SUBCONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT AND ENGINEER BEFORE THE WORK HAS BEGUN.
- REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DIMENSIONS.
- REFER TO ARCHITECTURAL PLANS FOR FLOOR DRAIN LOCATIONS.
- SLOPE SLAB TO DRAINS. SEE ARCHITECTURAL PLANS FOR SLOPE.
- REFER TO ARCHITECTURAL PLANS FOR FLOOR FINISHES. ENGINEER IS NOT RESPONSIBLE FOR TYPE OF FLOOR FINISHES.
- PROVIDE SLAB CONTRACTION JOINTS PER TYPICAL DETAIL.
- THE TESTING LABORATORY SHALL BE THE OWNER REPRESENTATIVE TO CONTROL THE PLACEMENT OF COMPACTED FILL. THE TESTING LABORATORY SHALL APPROVE THE SUBGRADE PREPARATION, THE FILL MATERIALS, THE METHOD OF PLACEMENT AND COMPACTION, AND SHALL INDICATE ON THERE REPORT THE ELEVATION OF THE COMPACTED SUBGRADE.
- ALL EARTHWORK AND GRADING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERING STUDY. THE STRINGENT REQUIREMENTS BETWEEN THESE SUBGRADE NOTES AND GEOTECHNICAL ENGINEERING STUDY SHALL GOVERN AND EXECUTED BY THE CONTRACTOR.
- IN THE EVENT FOUNDATION EXCAVATIONS ARE CARRIED TO A DEPTH GREATER THAN REQUIRED, THE ADDITIONAL DEPTH SHALL BE FILLED WITH THE SAME CONCRETE AS THAT USED FOR FOOTING AT NO ADDITIONAL EXPENSE TO THE OWNER. NO UNCONTROLLED FILL WILL BE PERMITTED.
- THE FOOTING EXCAVATIONS SHALL BE KEPT FREE FROM LOOSE MATERIAL AND STANDING WATER.
- THE FOUNDATION EXCAVATIONS SHOULD BE OBSERVED BY THE TESTING LABORATORY PRIOR TO STEEL OR CONCRETE PLACEMENT TO ASSESS THAT THE FOUNDATION MATERIALS ARE CAPABLE OF SUPPORTING THE DESIGN LOADS AND ARE CONSISTENT WITH THE MATERIALS DISCUSSED IN THE STUDY. THIS IS ESPECIALLY IMPORTANT TO IDENTIFY THE ACCEPTABILITY OF THE SUBGRADE OR FILL MATERIAL UNDER THE FOOTING. SOFT OR LOOSE SOIL ZONES ENCOUNTERED AT THE BOTTOM OF THE FOOTING OR BEAM EXCAVATIONS SHOULD BE EXCAVATIONS SHOULD BE REMOVED TO THE LEVEL OF COMPETENT SOIL AS DIRECTED BY THE TESTING LABORATORY. CAVITIES FORMED AS A RESULT OF EXCAVATION OF SOFT OR LOOSE SOIL ZONES SHOULD BE BACKFILLED WITH LEAN CONCRETE OR SELECT FILL AS DETERMINED BY THE TESTING LABORATORY.
- CARE SHOULD BE TAKEN TO SHAPE THE BUILDING AREAS SUCH THAT WATER WILL NOT POND AROUND THE STRUCTURE DURING CONSTRUCTION AND CAUSE THE NEAR SURFACE CLAYS TO SWELL. THE PROPOSED STRUCTURE SHALL BE ISOLATED FROM ANY MOISTURE SOURCE WHICH MIGHT ALSO CAUSE SWELLING OF THE CLAYS AFTER COMPLETION OF THE CONSTRUCTION.
- WHEN THE STRUCTURE IS COMPLETE, THE GROUND SURFACE SHOULD SLOPE AWAY FROM THE STRUCTURE AND DOWN SPOUTS SHOULD CARRY RUNOFF WATER SEVERAL FEET FROM THE BUILDING, PREFERABLY INTO PAVED AREAS OR SEWERS, BEFORE DISCHARGING.
- DO NOT PLANT, OR LEAVE IN PLACE, DEEP ROOTED TREES WITHIN CLOSE PROXIMITY TO THE PERIMETER OF THE STRUCTURE. DEEP ROOTED TREES HAVE POTENTIAL TO REMOVE MOISTURE FROM BENEATH THE BUILDING IF PLATED CLOSE ENOUGH TO ALLOW THE ROOT BULB EXTEND NEAR OR BENEATH THE BUILDING.
- AIR CONDITIONING CONDENSER DRAIN LINES TO DISCHARGE WATER A MINIMUM OF 5 FEET FROM THE PERIMETER OF THE STRUCTURE. THE DISCHARGE AREA SHALL HAVE SUFFICIENT SLOPE AWAY FROM THE STRUCTURE TO PREVENT STANDING WATER.
- THE FINAL ONE (1) FOOT OF FILL OUTSIDE THE BUILDING AREA SHOULD CONSIST OF A COHESIVE CLAYEY (CL) SOIL. FILL CAN NOT BE ALLOWED TO DRY OUT DURING OR AFTER COMPACTION.
- NOTE THAT SOME LEVELS OF RISK ARE ASSOCIATED WITH ALL FOUNDATION SYSTEMS AND THERE IS NO SUCH THING AS A "ZERO RISK" FOUNDATION. IT ALSO SHOULD BE NOTED THAT THE FOUNDATION PROVIDED IS NOT DESIGNED TO RESIST SOIL MOVEMENT AS A RESULT OF SEWER/PLUMBING LEAKS, EXCESSIVE IRRIGATION, NON UNIFORM IRRIGATION, POOR DRAINAGE, AND WATER PONDING NEAR THE FOUNDATION SYSTEM.
- CONSTRUCTION FOLLOWING WET WEATHER PERIODS WILL LIKELY ENCOUNTER DIFFICULTIES DUE TO THE WET OR SOFT SURFACE SOILS BECOMING A GENERAL HINDRANCE TO EQUIPMENT DUE TO RUTTING AND PUMPING OF THE SOIL SURFACE. IF THE SUBGRADE CANNOT BE ADEQUATELY COMPACTED TO MINIMUM DENSITIES AS DESCRIBED ABOVE, ONE OF THE FOLLOWING MEASURES WILL BE REQUIRED:
 - REMOVAL AND REPLACEMENT WITH SELECT FILL
 - CHEMICAL TREATMENT OF THE SOIL TO DRY SOIL AND INCREASE THE STABILITY OF THE SUBGRADE
 - DRYING BY NATURAL MEANS.
- ALL FOOTINGS TO HAVE #5s AT 12" O.C. EACH WAY TOP AND BOTTOM REINFORCING.
- FOLLOWING ARE THE SIZES OF THE REQUIRED FOOTINGS:
 - INDICATES A 5'-6" x 5'-6" x 3'-0" DEEP CEE FOOTING
 - INDICATES A 6'-6" x 6'-6" x 3'-0" DEEP TEE FOOTING

SLAB ON GRADE	
THICKNESS	5 INCHES
REINFORCING (EACH WAY)	#4 AT 14" O.C.
REINFORCING LOCATION	MID DEPTH
VISQUEEN	10 MIL
CONCRETE CHAIRS (NOT PLASTIC CHAIRS ALLOWED)	3'-0" O.C. EACH WAY

1 FOUNDATION PLAN
SCALE: 3/16"=1'-0"



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ROOF
FRAMING
PLAN

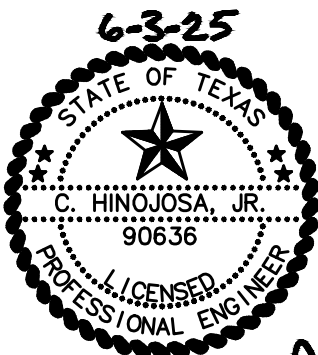
ADDENDUM #2

S3.0

METAL BUILDING NOTES:

1. THE DESIGN AND CONSTRUCTION OF THE METAL BUILDING IS THE RESPONSIBILITY OF THE SUPPLIER. THE PLAN SHOWN IS SCHEMATIC ONLY.
2. VERIFY SIZE AND LOCATION OF ALL SUPPORTED ITEMS WITH MANUFACTURER AND ARCH'L DRAWINGS. PRIOR TO FABRICATING STEEL. PROVIDE ALL FRAMING INCLUDING SUB PURLINS AND ROD HANGERS BETWEEN "Z" PURLINS AS REQD.
3. THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION AND NUMBER OF MECH'L UNITS SUPPORTED BY THE METAL BUILDING STRUCTURE PRIOR TO ORDERING THE METAL BUILDING. SUPPORT FRAMING SHALL BE PROVIDED FOR ALL UNITS WHETHER THEY ARE SHOWN ON THIS DRAWING OR NOT.

1 ROOF FRAMING PLAN
SCALE: 3/16"=1'-0"



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ALTERNATE
ROOF
FRAMING
PLAN

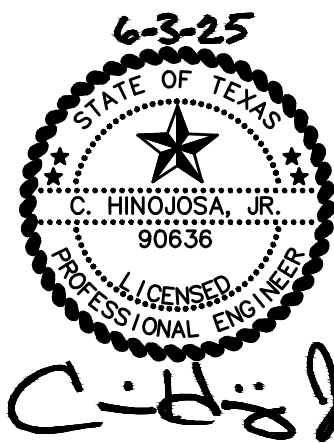
ADDENDUM #2

S3.1

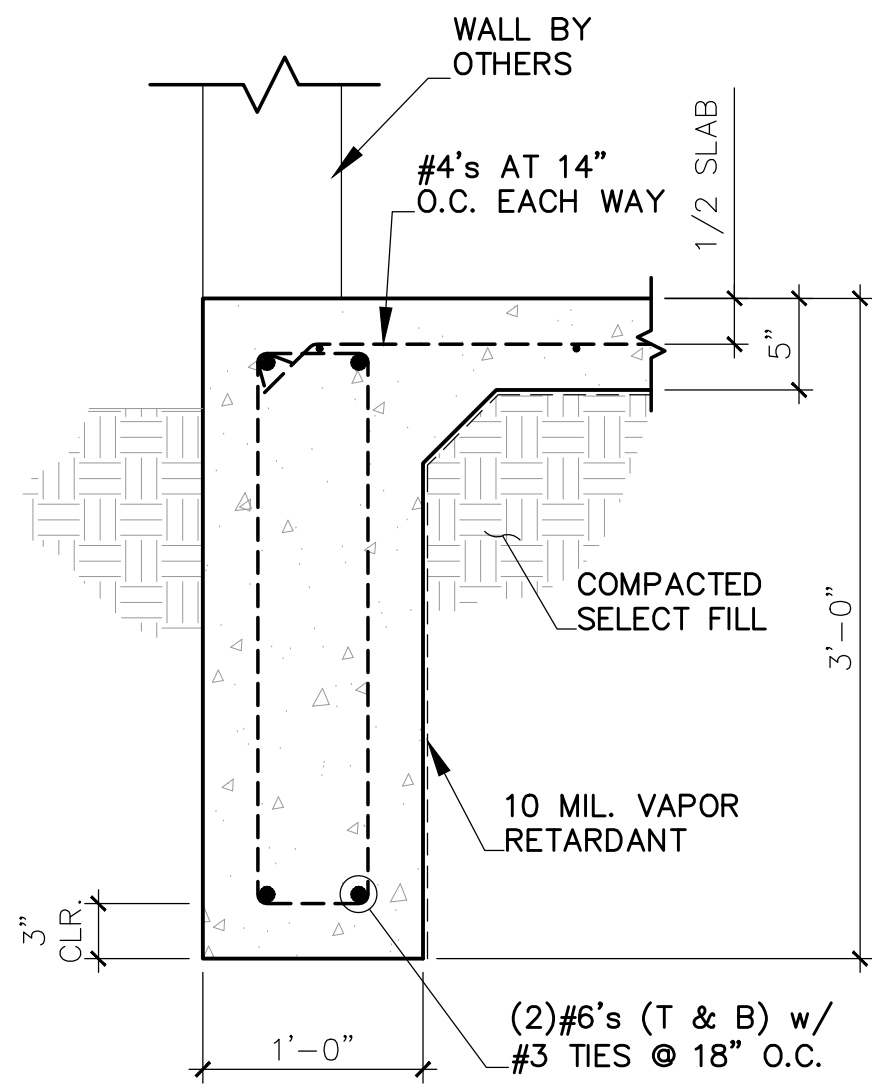
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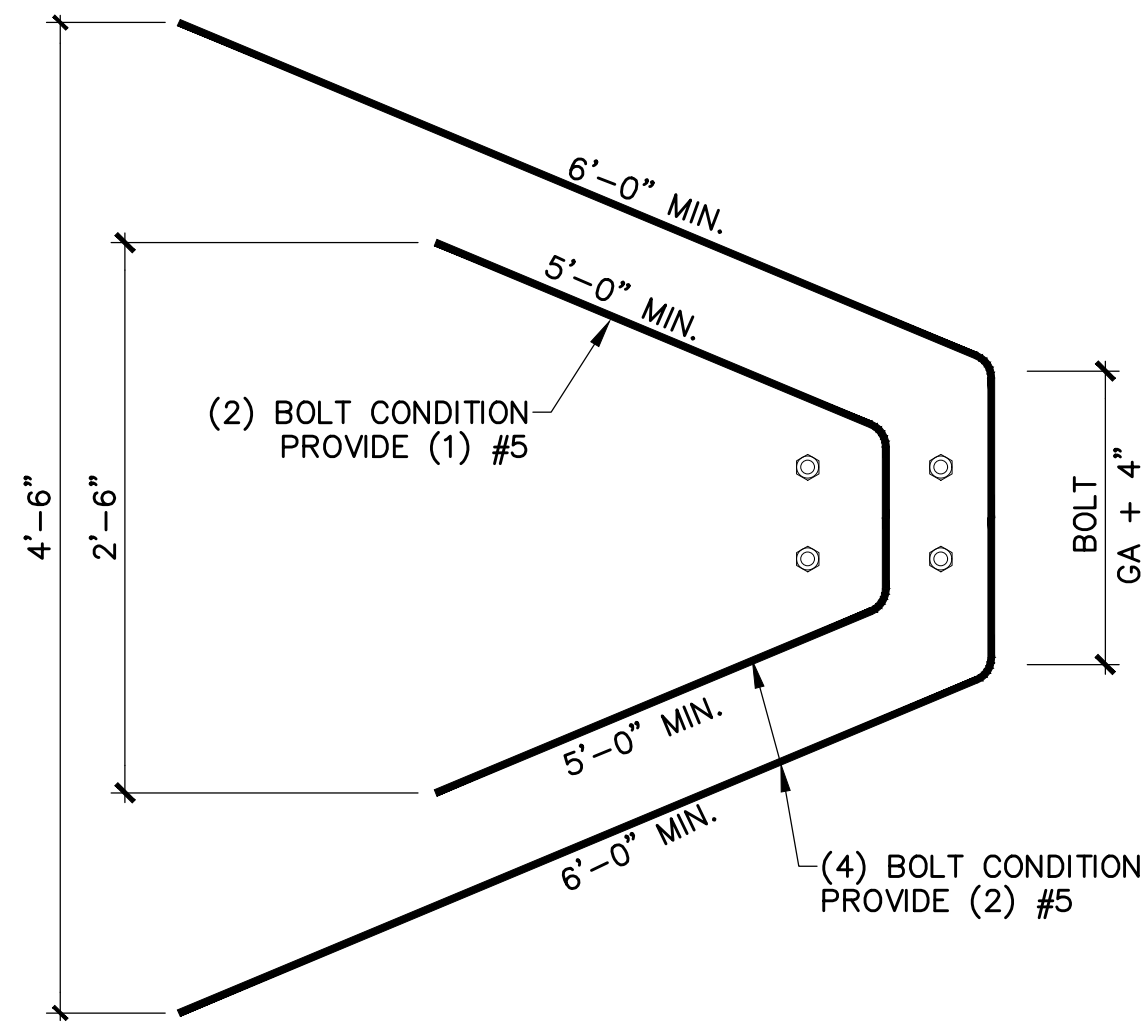
1 ALTERNATE
ROOF FRAMING PLAN
SCALE: 3/16"=1'-0"



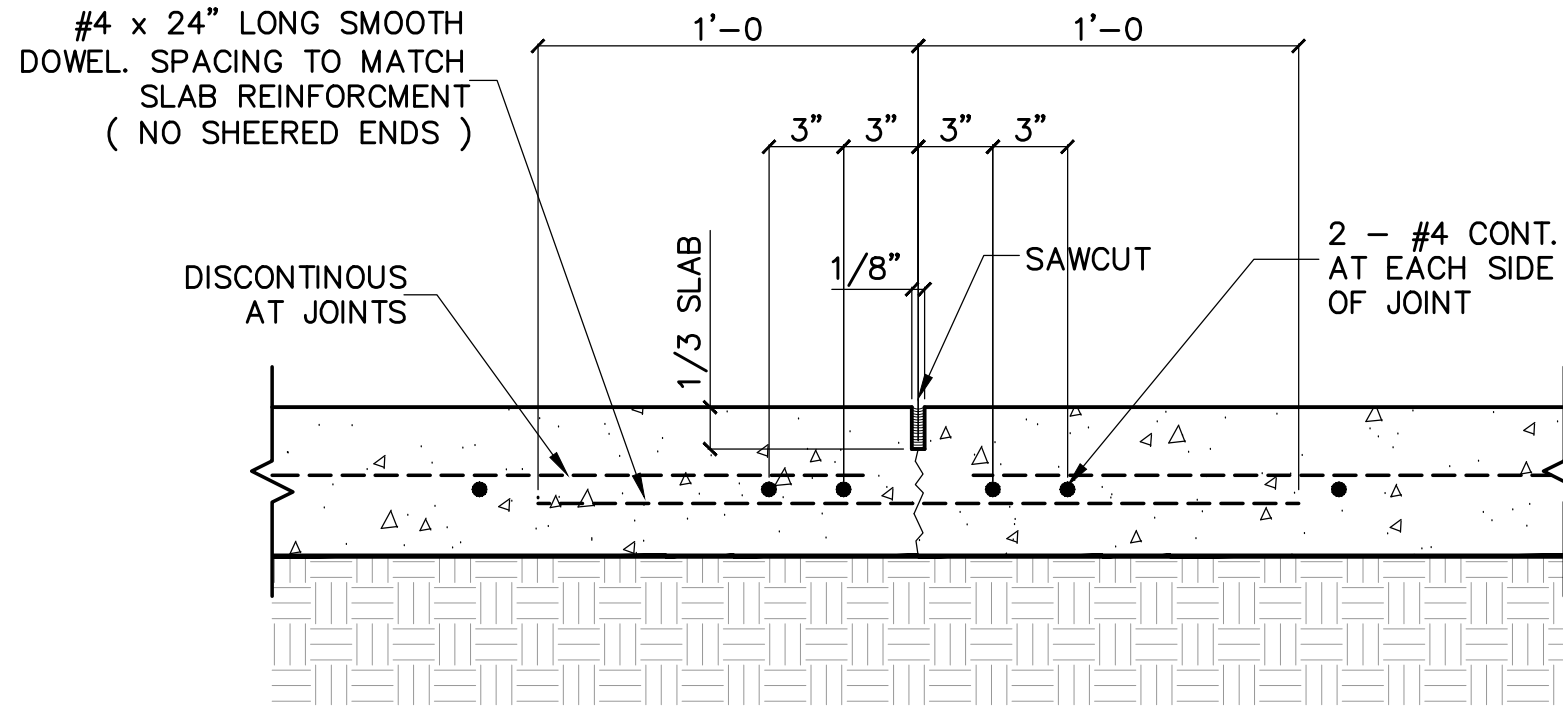
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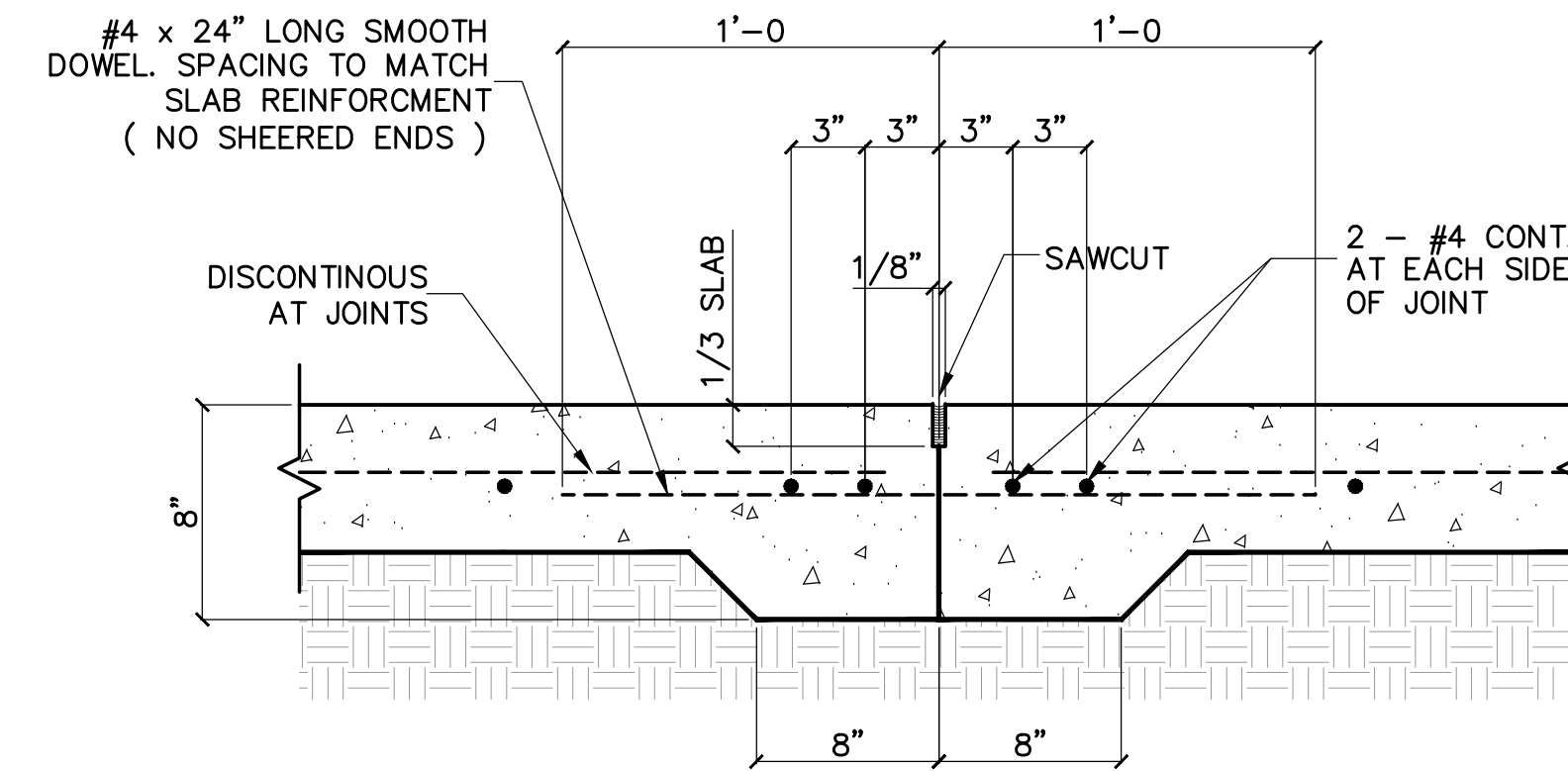
1 EXTERIOR GRADE BEAM
SCALE: NOT TO SCALE



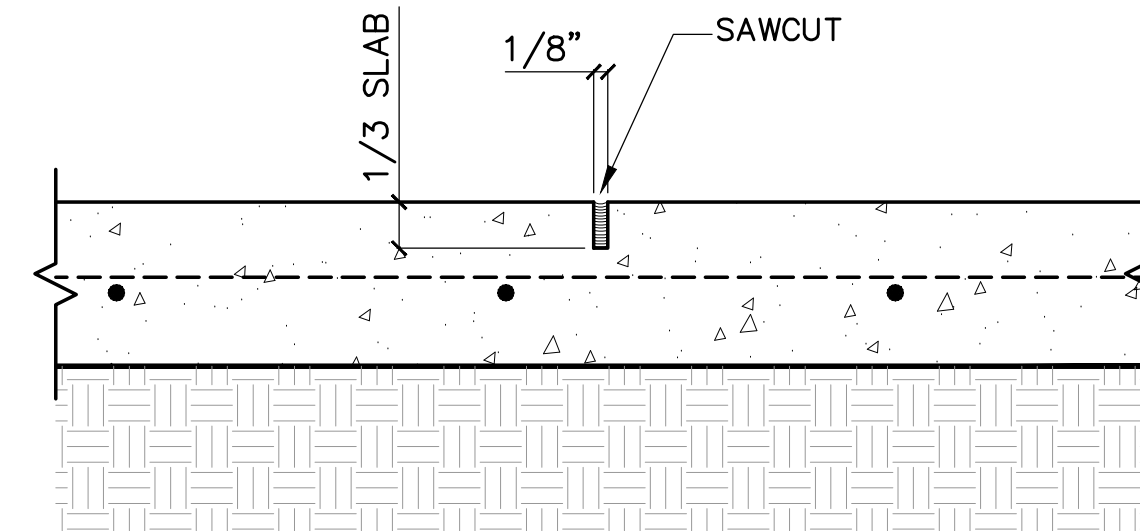
4 PLAN VIEW, TRUST BARS
SCALE: NOT TO SCALE



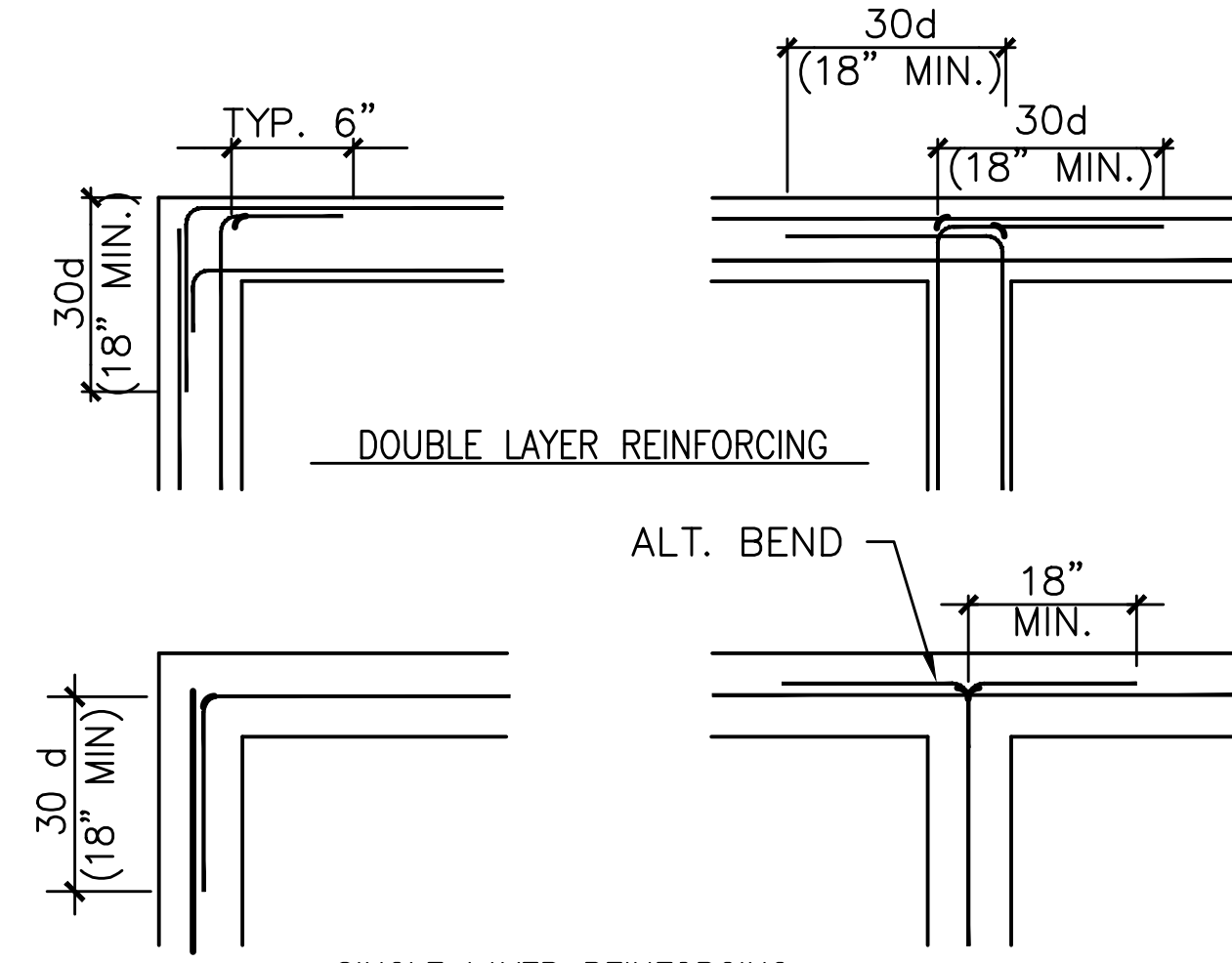
7 CONSTRUCTION / CONTRACTION JOINT
SCALE: NOT TO SCALE



7 CONSTRUCTION / CONTRACTION JOINT
SCALE: NOT TO SCALE



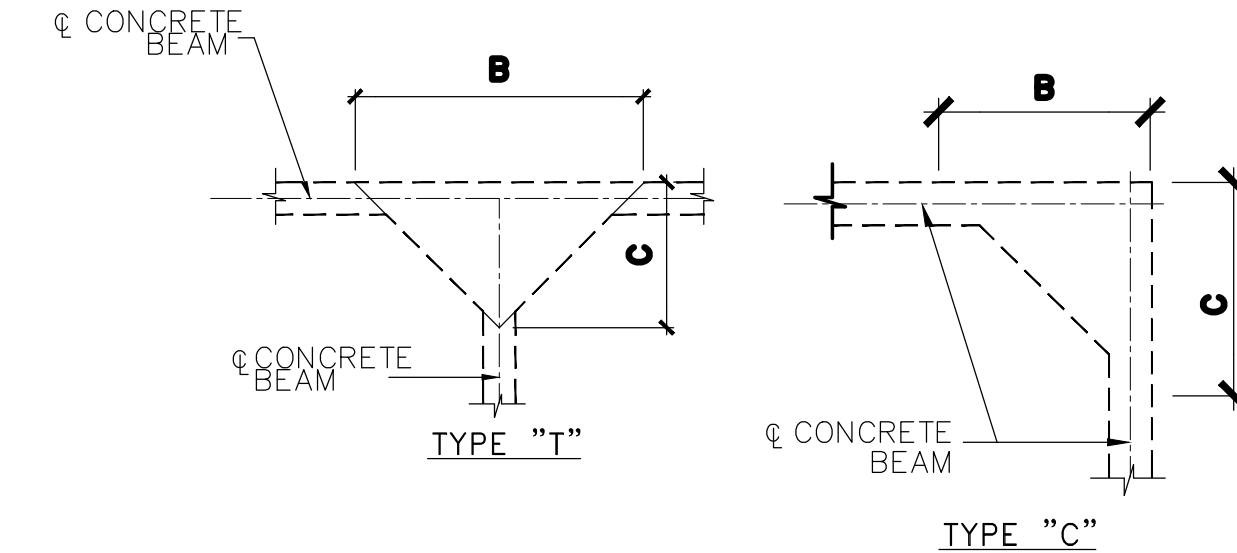
8 CONTROL JOINT
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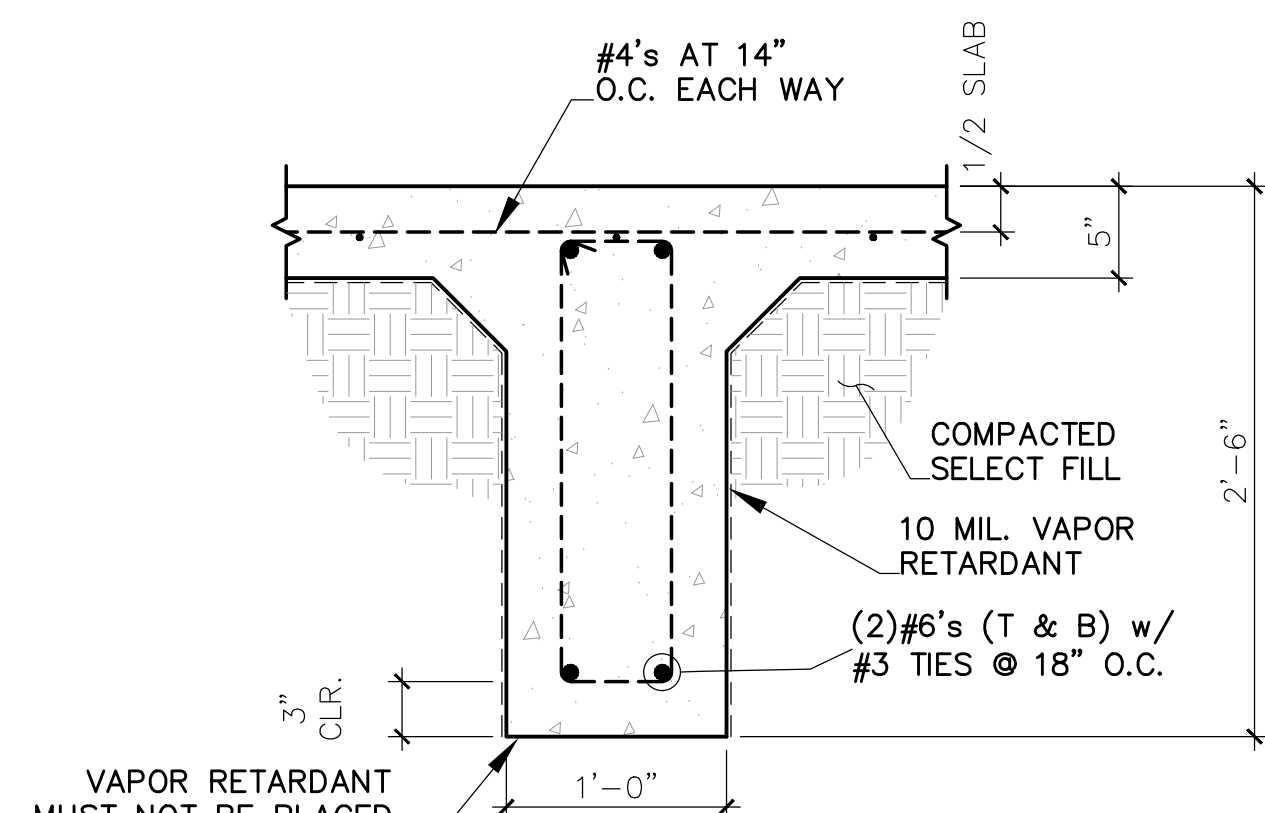
10 TYP. REINF. @ INT. OF CONC. FIG'S.
SCALE: NOT TO SCALE

FOOTING SCHEDULE					
TYPE	A	B	C	D	REINFORCING
C5		5'-6"	5'-6"	3'-0"	#5'S @ 12" O.C. E.W. TOP & BOTT.
T6		6'-6"	6'-6"	3'-0"	#5'S @ 12" O.C. E.W. TOP & BOTT.

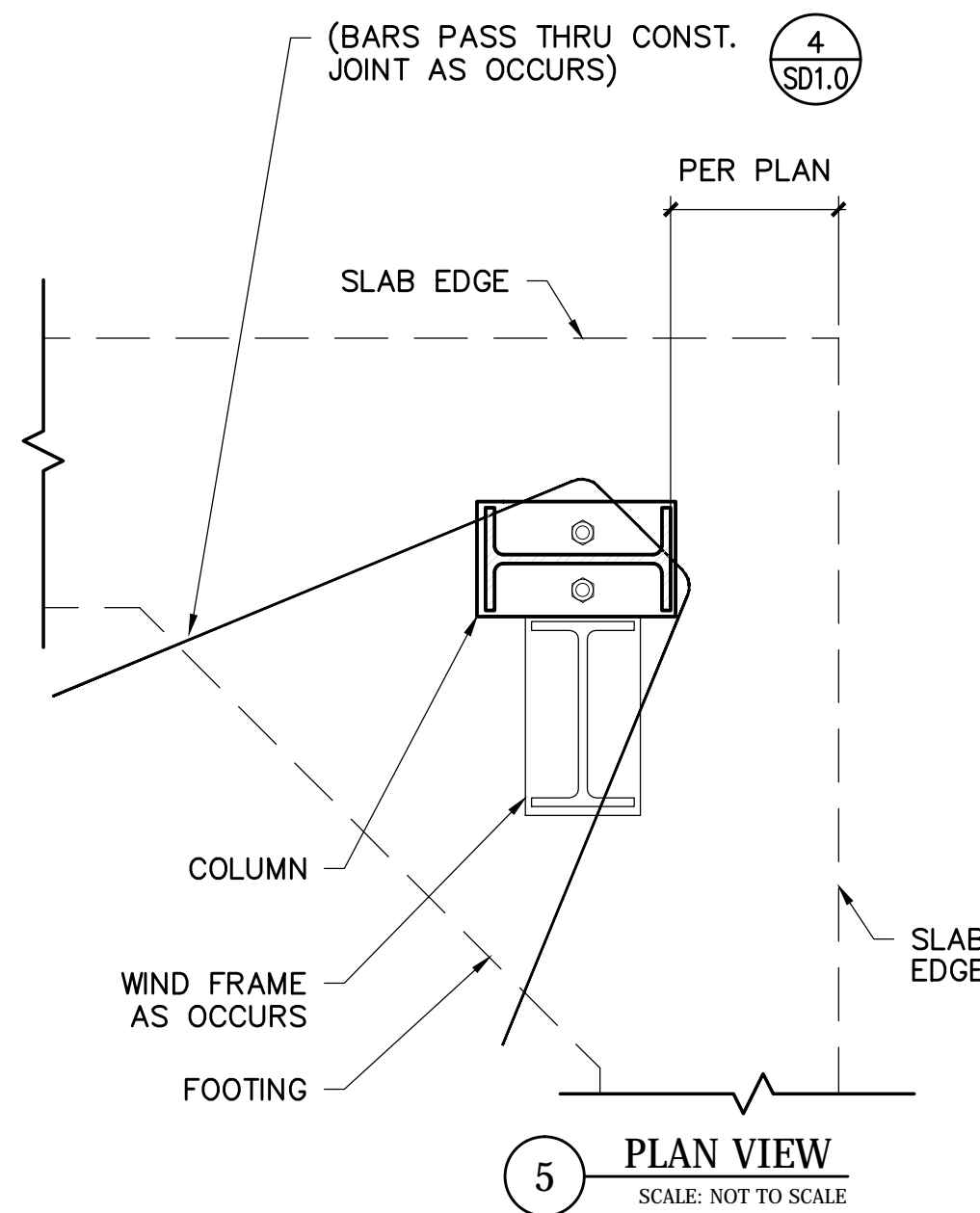
- NOTES: 1. D = FOOTING DEPTH BELOW FINISH FLOOR
2. FOOTING DIMENSIONS ARE FOR BIDDING PURPOSES ONLY. ACTUAL DIMENSIONS MAY VARY.
3. PROVIDE UNIT PRICES (ON A CUBIC YARD BASIS) FOR REINFORCED (#6'S @ 8" OC EW TOP & BOTT.) WIDENED BEAM CONCRETE FOOTINGS



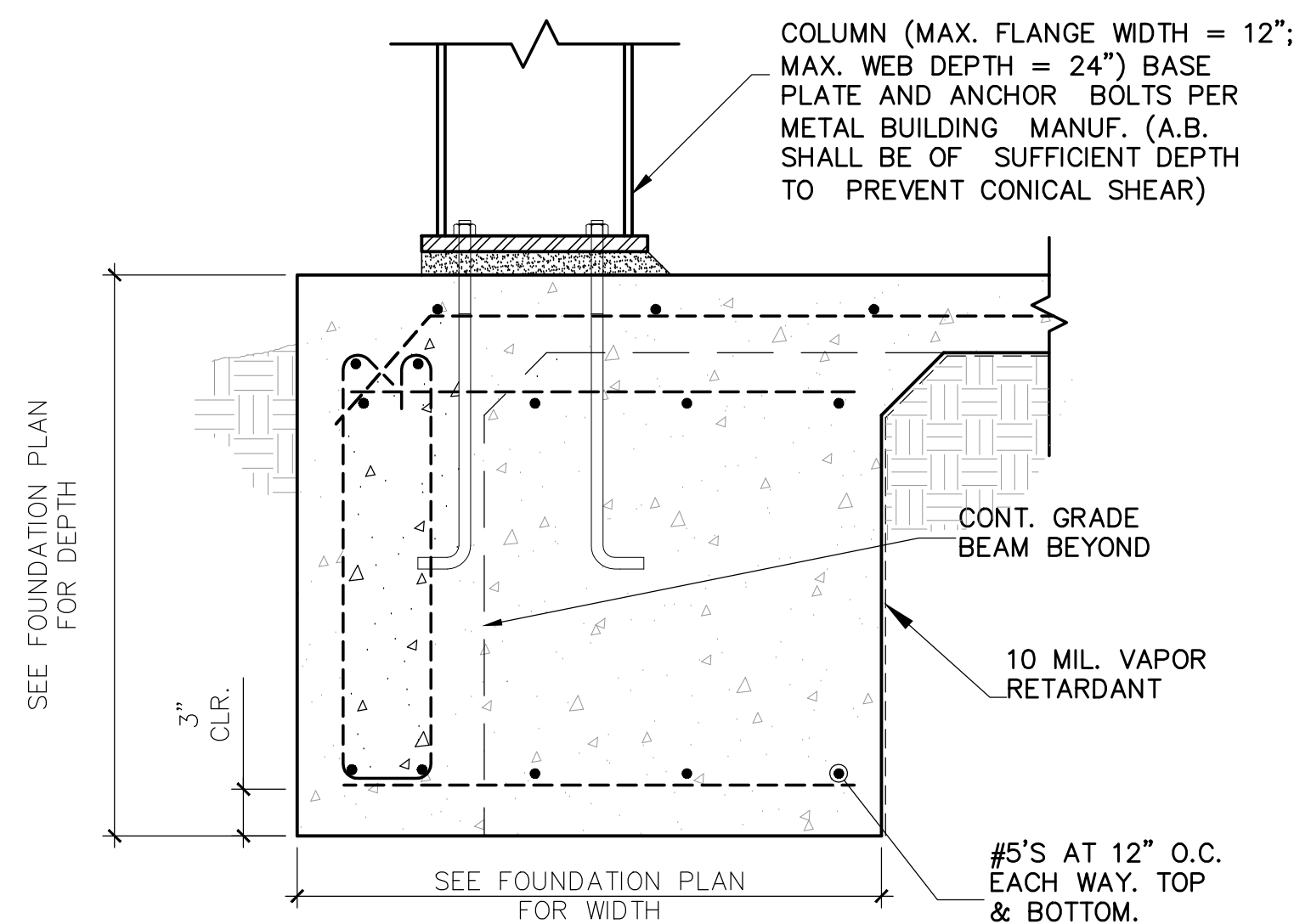
11 FOOTING AT COLUMN
SCALE: NOT TO SCALE



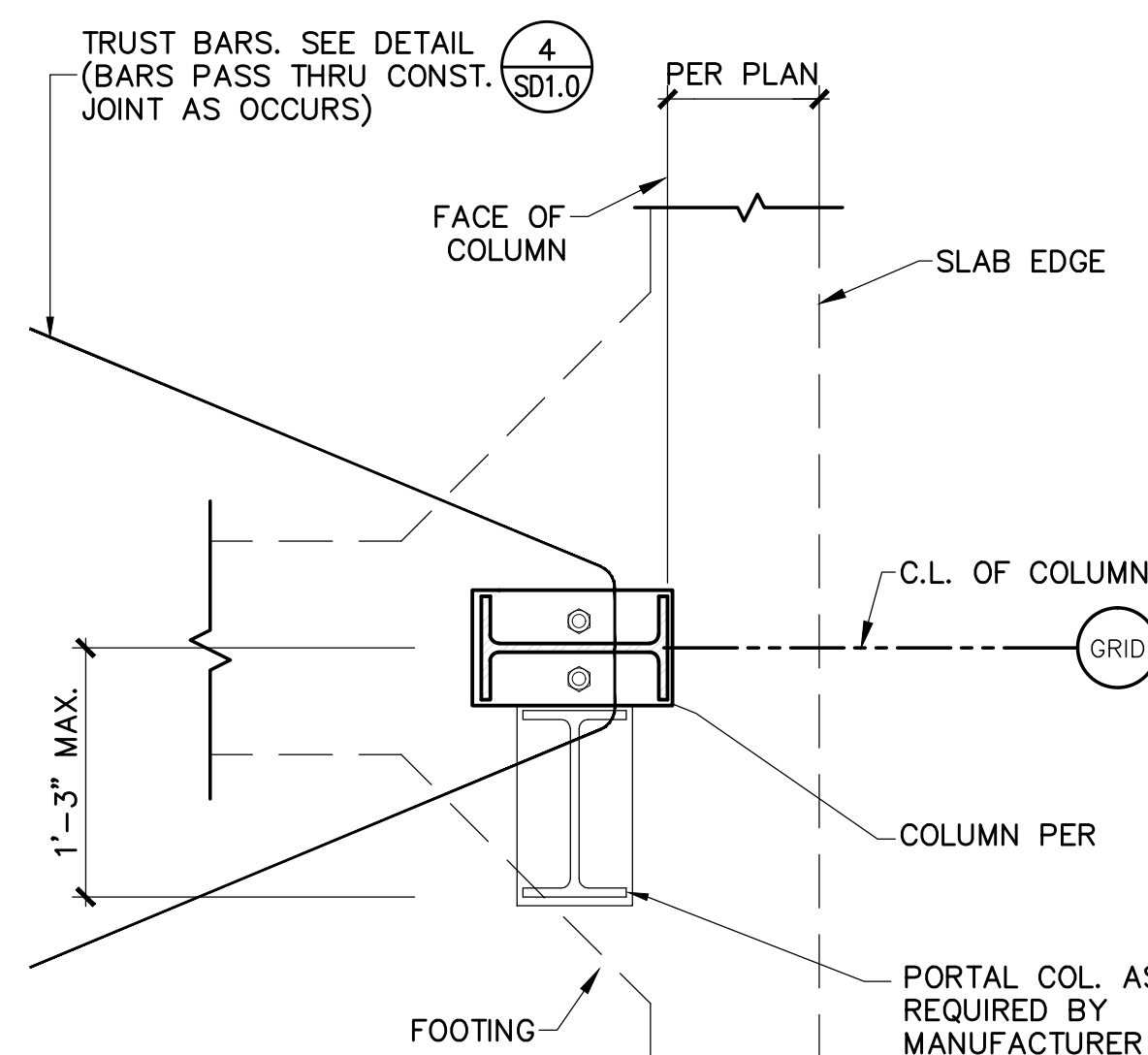
2 INTERIOR GRADE BEAM
SCALE: NOT TO SCALE



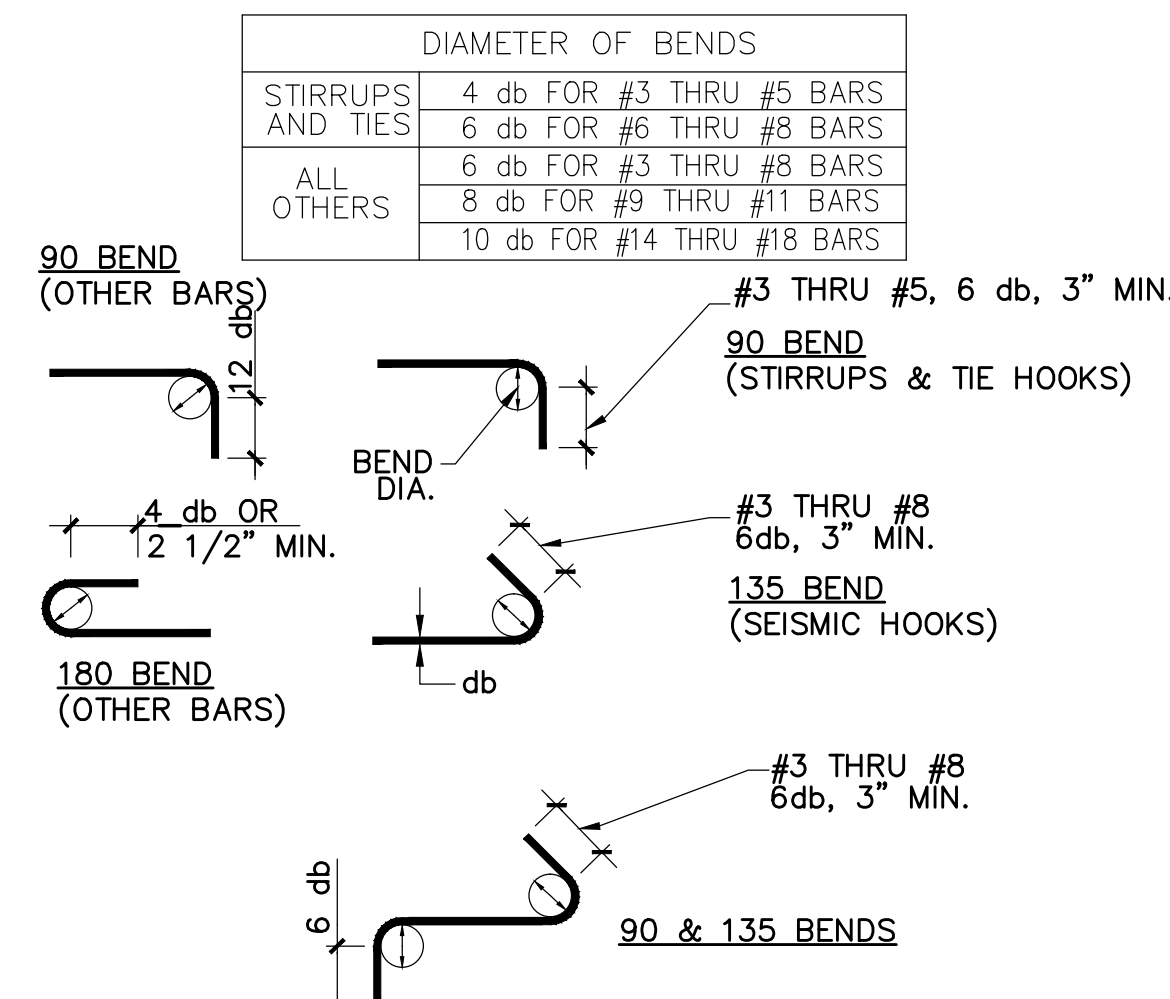
5 PLAN VIEW
SCALE: NOT TO SCALE



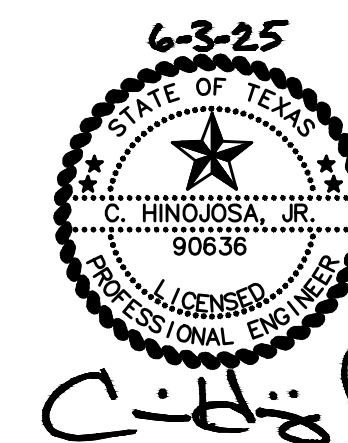
3 FOOTING AT COLUMN
SCALE: NOT TO SCALE



6 PLAN VIEW
SCALE: NOT TO SCALE



9 STANDARD HOOKS
SCALE: NOT TO SCALE



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ADDENDUM #2

SD1.0



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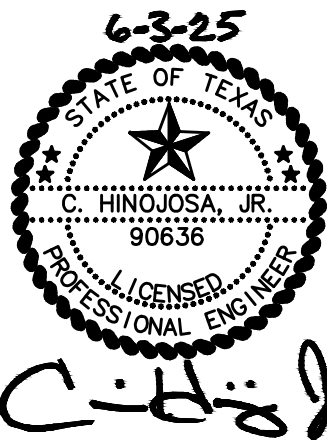
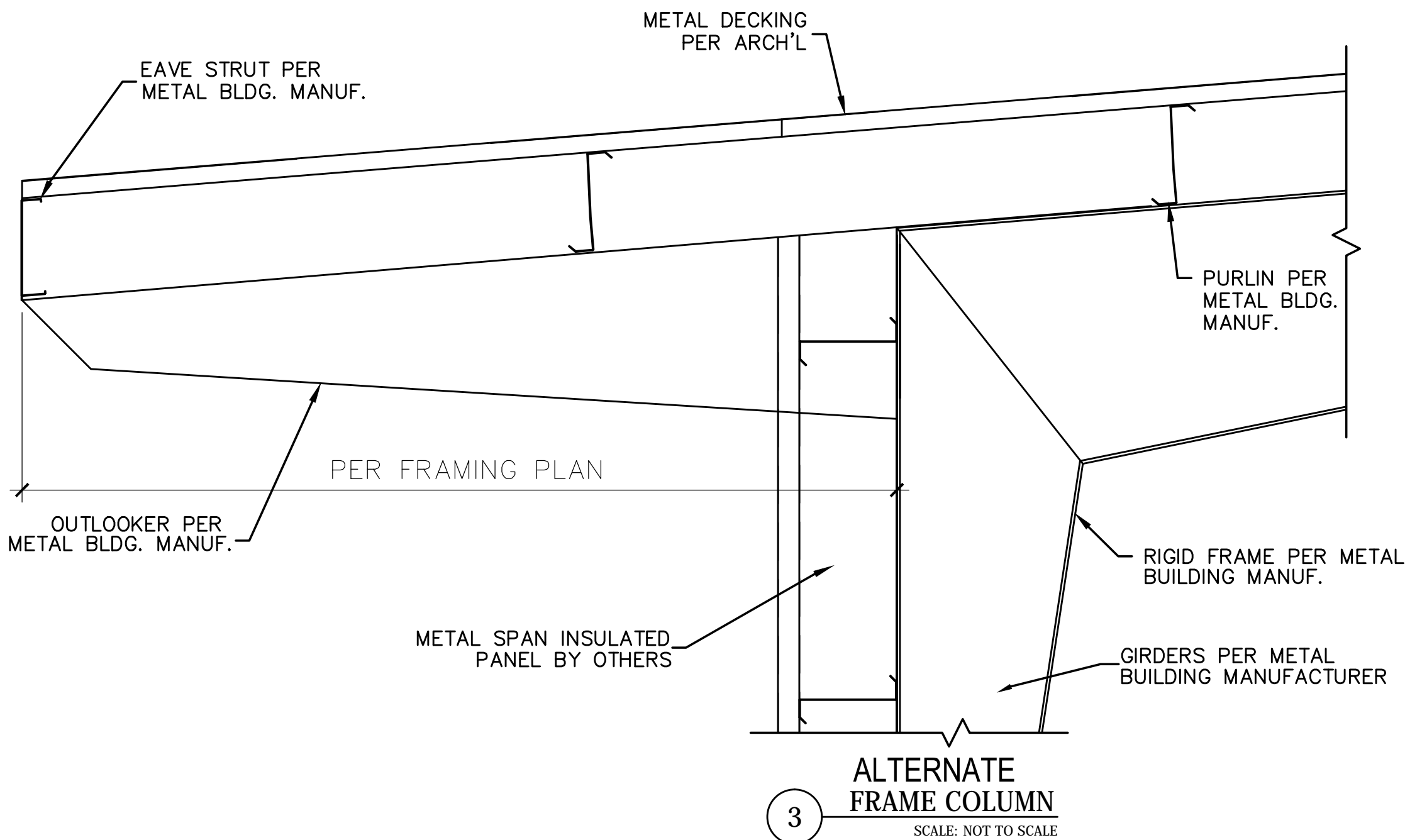
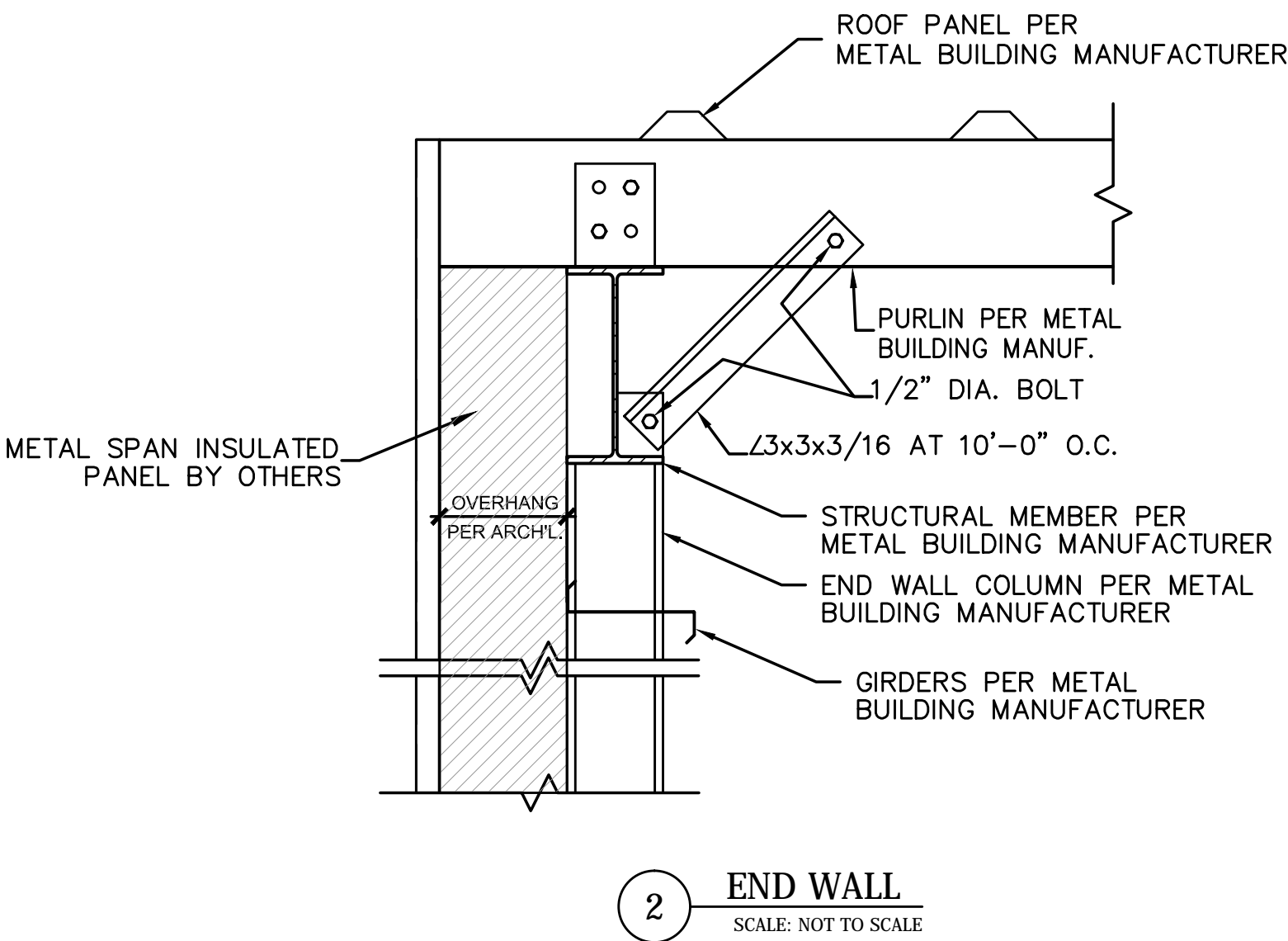
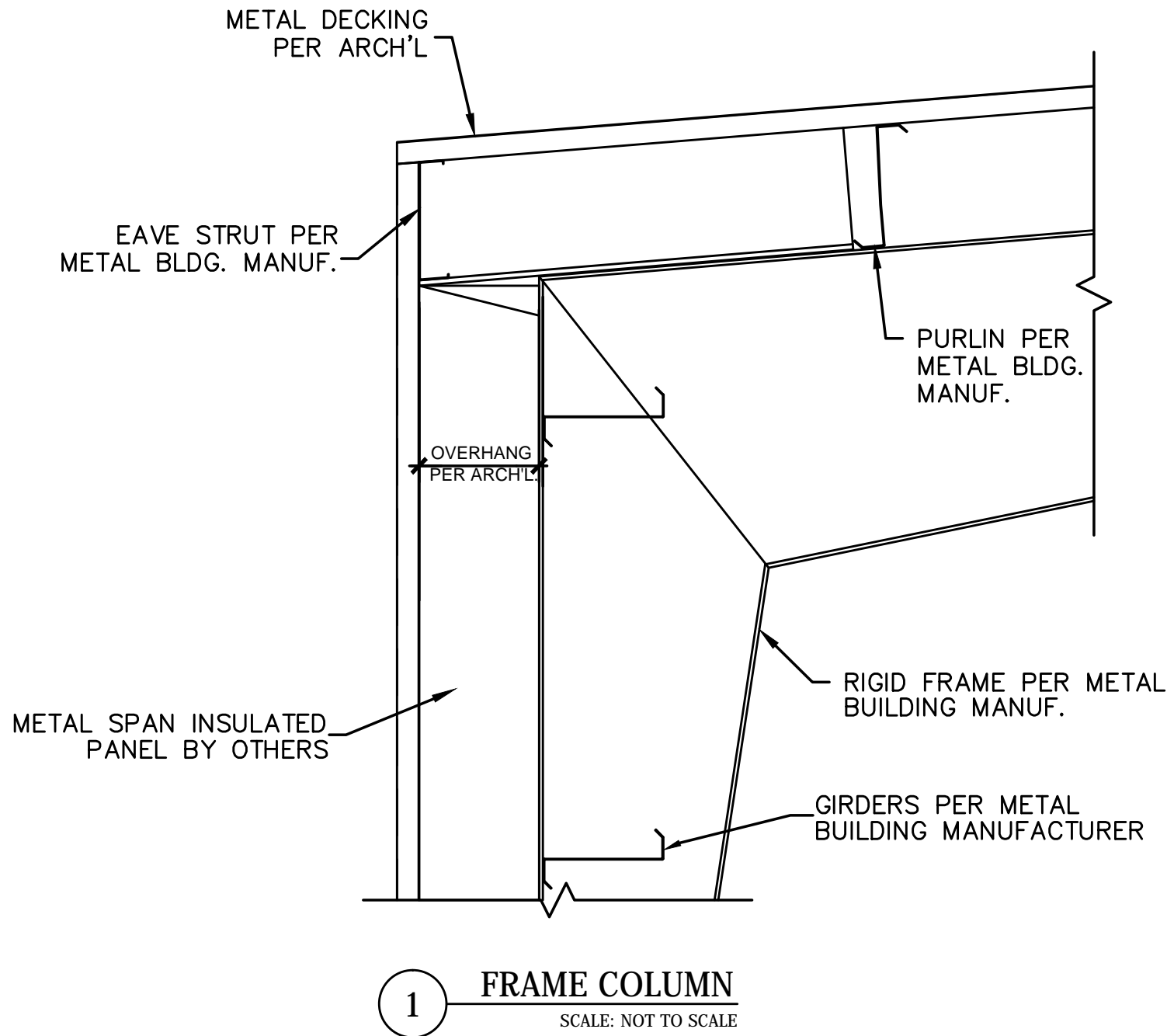
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FRAMING
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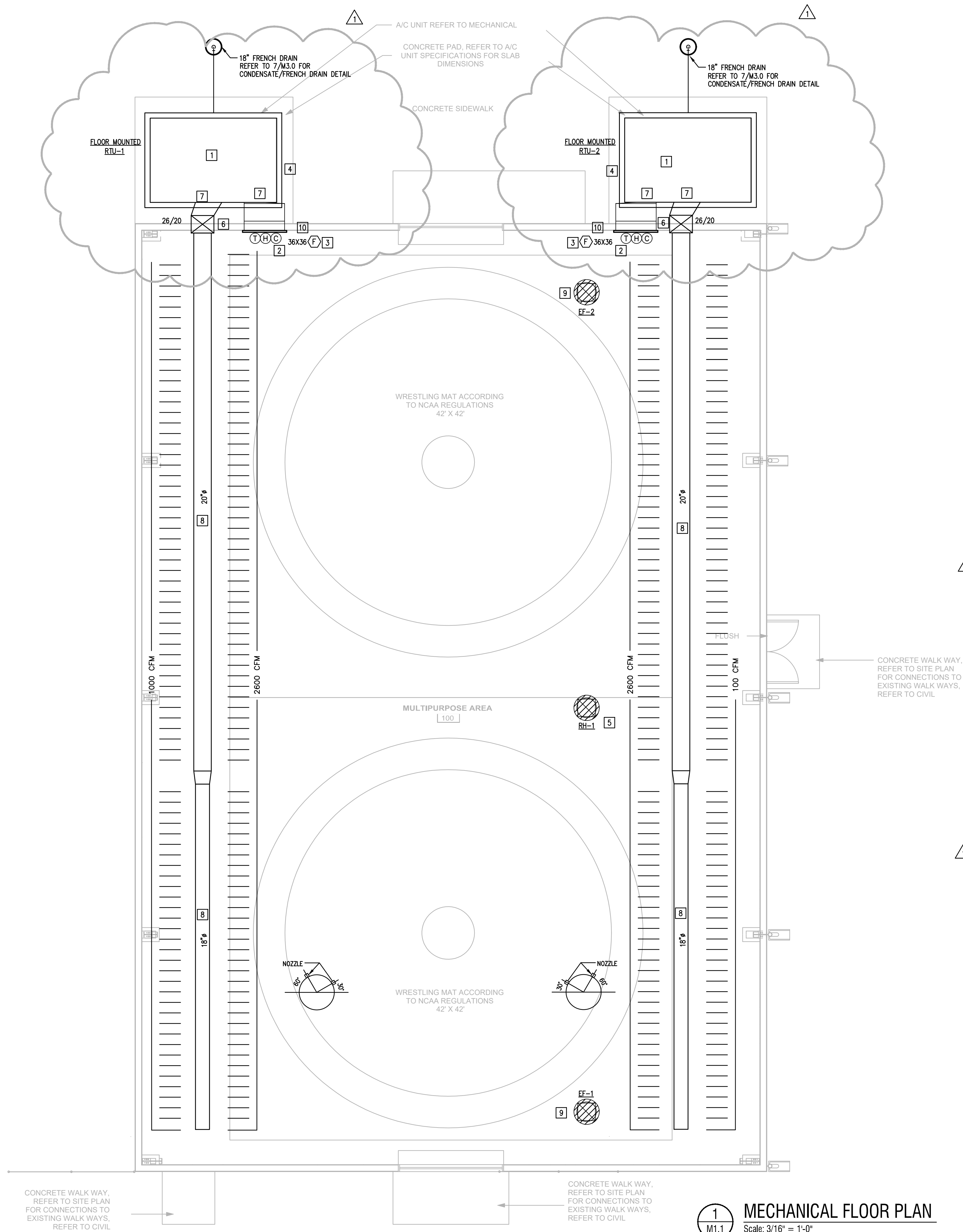
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1	ADDENDUM #2	06-03-2025

PROJECT #: 25-030102
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MECHANICAL
FLOOR PLAN

M1.1



MECHANICAL GENERAL NOTES

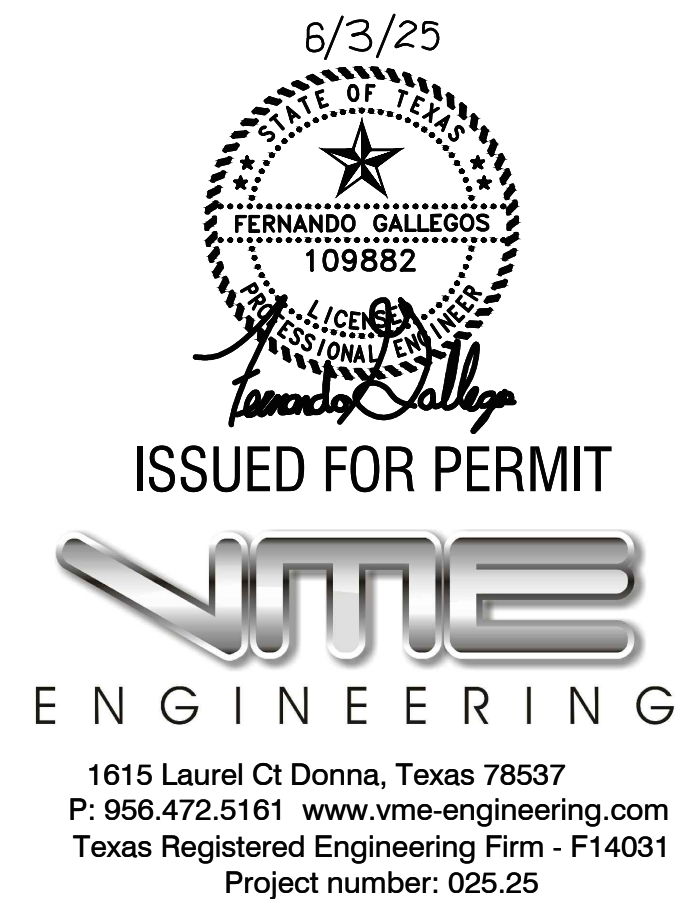
1. CONTRACTOR SHALL BALANCE EACH SPACE WITH THE CFM SHOWN ON PLAN. NOTE NOT ALL SPACES HAVE SAME CFM SHOWN ON RTU SCHEDULE.
2. NEW PIPING AND DUCTWORK SHOWN ON PLAN ARE SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK ROUTING, OFFSET AND RUN PIPING, DUCTWORK INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ANY EXTRA PIPING, DUCTWORK, FITTINGS, INSULATIONS AND OTHER ACCESSORIES IN ORDER TO COMPLETE THE INSTALLATION.
3. COORDINATE LOCATIONS ROOF OPENINGS AND SIZES OF WALL OPENINGS WITH ARCHITECT AND STRUCTURE ENGINEERS.
4. EQUIPMENT SIZES, DIMENSIONS AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE VENDOR DRAWINGS BEFORE FABRICATION OF DUCTWORK, PIPING.
5. DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE AIR STREAM DIMENSIONS. DUCTWORK SHALL BE SHEET METAL.
6. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL HVAC EQUIPMENT PRIOR TO INSTALLATION.

MECHANICAL KEYED NOTES

- 1 RTU ON FLOOR PROVIDE 6" CONCRETE PAD. COORDINATE INSTALLATION WITH SIDE OPENINGS AND REQUIRED CLEARANCES. PROVIDE PROPER SUPPORT. FIELD COORDINATE LOCATION WITH STRUCTURE AND OFFSET AS REQUIRED. PROVIDE FLEXIBLE CONNECTIONS ON SUPPLY AND RETURN DUCT.
- 2 PROVIDE SPACE TEMPERATURE SENSOR, SPACE HUMIDITY SENSOR, CUZ SENSOR. REFER TO SCHEDULE. PROVIDE CONNECTION SO SCHOOLS CONTROL SYSTEM.
- 3 PROVIDE FILTERED RETURN AIR GRILLE AS SCHEDULED ON DOOR/WALL/CEILING. SIZE IS INDICATED ON PLAN.
- 4 PROVIDE 6" CONCRETE PAD FOR ACQU.
- 5 PROVIDE RELIEF HOOD ON ROOF. PROVIDE 14" ROOF CURB. PROVIDE RELIEF DAMPER SET AT 0.05". COORDINATE WITH ROOF SLOPE. PROVIDE DUCT SAME SIZE AS OPENING AND TERMINATE 12" BELOW ROOF INSULATION. PROVIDE WIRE MESH AT END.
- 6 PROVIDE PROTECTIVE SLEEVE TO EXPOSED DUCT. PAINT OR COVER TO BE WHITE.
- 7 PROVIDE TRANSITION FROM RTU OPENING TO DUCT INDICATED ON PLANS. PROVIDE FLEXIBLE CONNECTION.
- 8 RUN DUCT AS HIGH AS POSSIBLE. MINIMUM 12' A.F.F. NOZZLES TO HAVE MORE FLOW TOWARDS MIDDLE OF BUILDING.
- 9 PROVIDE EXHAUST FAN ON ROOF. PROVIDE 14" ROOF CURB. COORDINATE WITH ROOF SLOPE. PROVIDE DUCT SAME SIZE AS EXHAUST OPENING. ROUTE TO 24" BELOW ROOF INSULATION. PROVIDE WIRE MESH AT END. FAN TO BE ON WHEN RESPECTIVE RTU OUTSIDE AIR IS OPEN AND OFF WHEN OUTSIDE AIR DAMPER IS CLOSED. PROVIDE NECESSARY RELAYS OR CONTACTOR FOR PROPER CONTROL.
- 10 PROVIDE 36"x36" GRILLE. PROVIDE 20" PLENUM. FROM PLENUM PROVIDE TRANSITION TO SAME SIZE AS RTU OPENING.

REFERENCE CODES

1. 2018 INTERNATIONAL BUILDING CODE.
2. 2018 INTERNATIONAL FIRE CODE.
3. 2018 INTERNATIONAL MECHANICAL CODE
4. 2018 INTERNATIONAL PLUMBING CODE
5. 2017 NATIONAL ELECTRICAL CODE
6. 2015 INTERNATIONAL ENERGY CONSERVATION CODE



AIR DEVICE SCHEDULE			
MARK	MFR. & MODEL	TYPE	REMARKS
F	TITUS 350FLF1	SIDEWALL RETURN AIR GRILLE	ALUMINUM CONSTRUCTION WITH FRAME FOR SURFACE MOUNT. 3/4" BLADE SPACING, DOUBLE DEFLECTION WITH FRONT BLADES PARALLEL TO LONG DIMENSION.
NOTES: 1. REFER TO ARCHITECTURAL DRAWINGS FOR FINISH. 2. REFER TO MECHANICAL FLOOR PLAN FOR NECK SIZES.			

EXHAUST FAN SCHEDULE	
MARK	EF-1,2
SERVES	MULTIPURPOSE
TYPE/DRIVE	BELT
CFM	600
EXT. S.P. (IN. W.G.)	0.50
HORSEPOWER	1/4
RPM (MAX.)	1,010
SONES (MAX.)	0.6
VOLTS/PHASE/HERTZ	120/1/60
MANUFACTURER	GREENHECK
MODEL NUMBER	GB-091
NOTES	1,2
NOTES: 1. PROVIDE WITH BACKDRAFT DAMPER. 2. INTERLOCK FAN WITH SWITCH RTU OUTSIDE AIR.	

ROOFTOP UNIT SCHEDULE (ELECTRIC HEAT)		
FAN AND MOTOR DATA	MARK	RTU- 12.5 Ton
	SERVES	AREA
	SUPPLY AIR (CFM)	4000
	OUTSIDE AIR (CFM)	600
	MINIMUM HP (MOTOR)	5
COOLING	DRIVE	VFD
	EXT. SP. (IN W.G.)	0.8
	TOTAL COOLING (MBH)	144.3
	SENSIBLE COOLING (MBH)	105.4
	ENTERING AIR TEMP. DB/WB (F)	78.5/64.8
HEATING	LEAVING AIR TEMP. DB/WB (F)	54.4/52.6
	AMBIENT TEMP. (F)	100
	TOTAL HEATING (KW) / STAGES	18
	ENTERING AIR TEMP. DB (F)	60
	LEAVING AIR TEMP. DB (F)	74.2
ELECTRIC	VOLTS/PHASE/HERTZ	480/3/60
	MCA	45.8
	MOCP	50
GENERAL	MANUFACTURER	JOHNSON CONTROLS
	MODEL	KB150E18R48DBCL6E1
	NOMINAL TONS	12.5
	I.E.E.R./E.E.R. (ARI)	16.0 IEER/ 12.2 EER
	WEIGHT (LBS)	1,415
NOTES		
1. PROVIDE SINGLE POINT ELECTRICAL CONNECTION. 2. PROVIDE FACTORY MOUNTED CONDENSER COIL GUARD. 3. PROVIDE DUAL ENTHALPY ECONOMIZER. 4. PROVIDE WITH FACTORY INSTALLED HOT GAS REHEAT DEHUMIDIFICATION. 5. PROVIDE WITH CO2 DEMMAND CONTROL VENTILATION. 6. PROVIDE WITH FACTORY INSTALLED SIMPLICITY CONTROLLER WITH BACNET INTERFACE. 7. PROVIDE WITH UNIT POWERED ELECTRIC GFCI OUTLET. 8. PROVIDE FACTORY SPACE TEMP SENSOR AND HUMIDITY SENSOR. 9. PROVIDE FACTORY INSTALLED VFD FOR SINGLE ZONE VAV OPERATION. 10. PROVIDE UNIT WITH SIDE SUPPLY AND RETURN CONNECTIONS. MOUNT UNIT ON MIN 6" CONCRETE PAD WITH NEOPRENE PAD. 11. CONTACT TEXAS AIRSYSTEMS FOR PRICING AND AVAILABILITY AT 956/566-9540 OR CARLOS.CASTANEDA@TEXASAIRSYSTEMS.COM		



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MULTI-USE
BUILDING
25-74

ROBERT VELA
HIGH SCHOOL

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Rd, Edinburg,
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MECHANICAL
SCHEDULES

M2.0

6/3/25



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Texas Registered Engineering Firm - F14031
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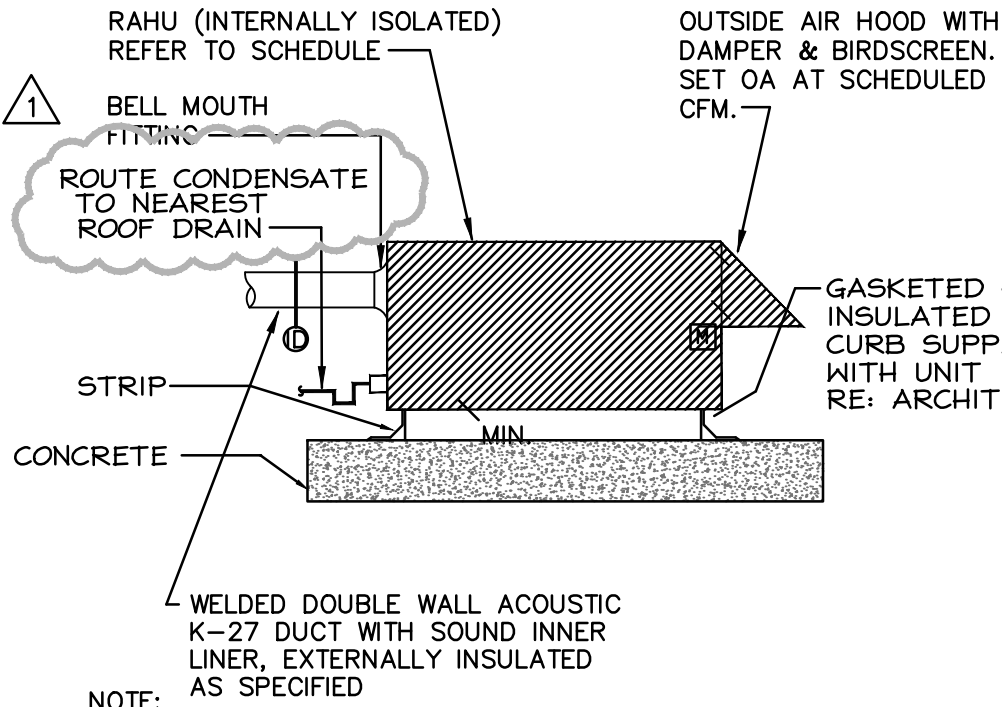
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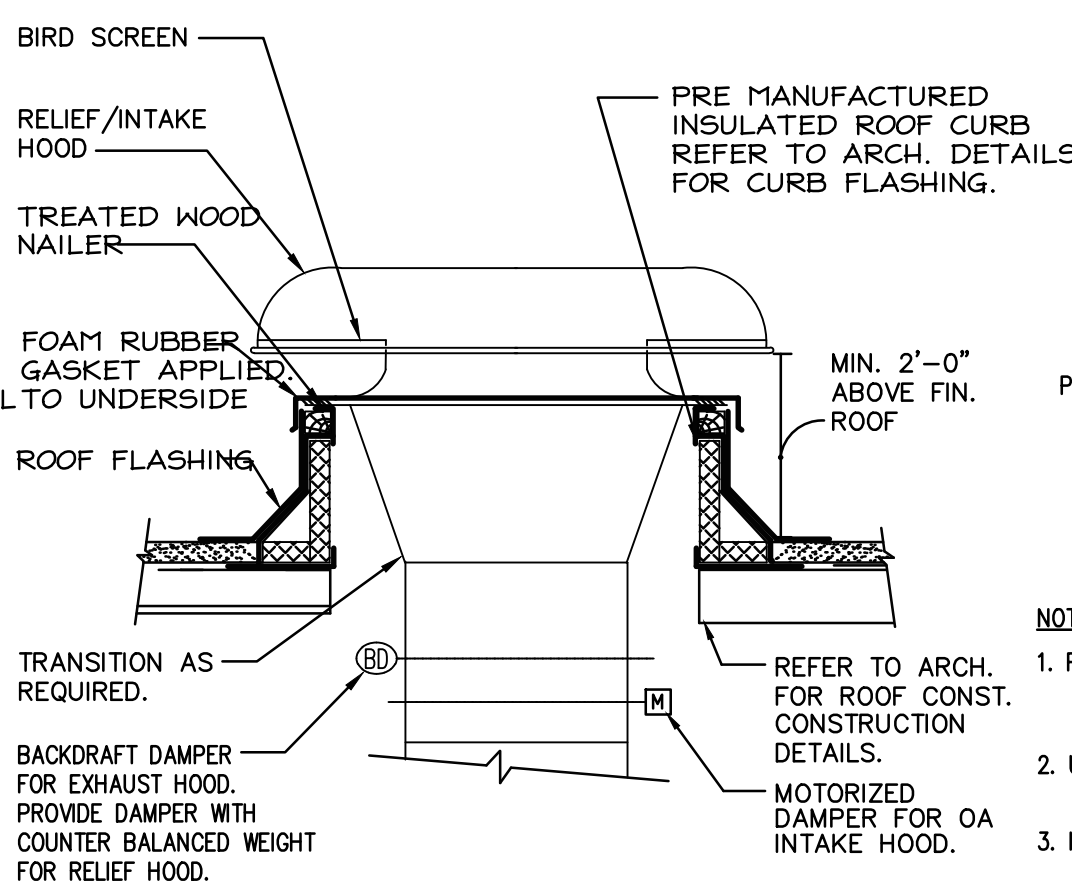
MECHANICAL
DETAILS

M3.0



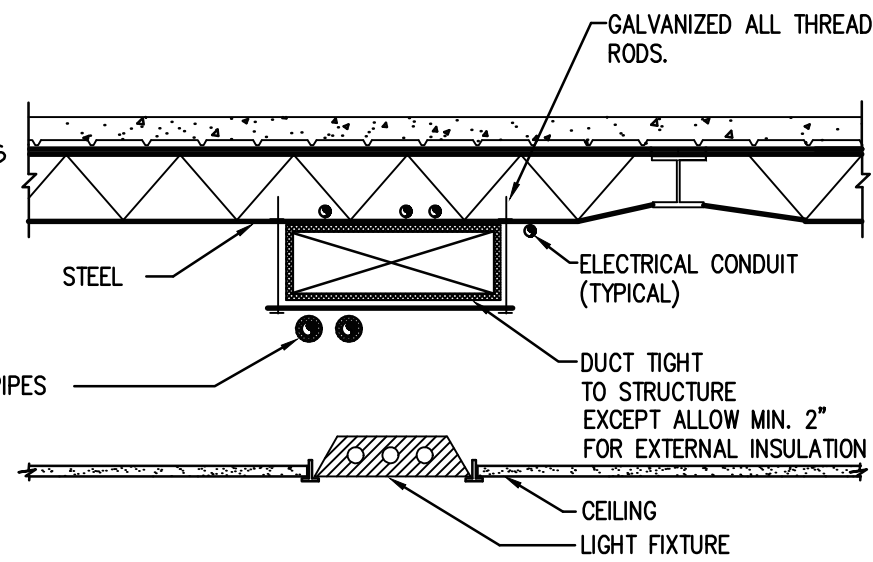
- NOTE:
1. REFER TO ARCH. FOR ROOFING & FLASHING DETAIL.
 2. ROUTE CHS & R HWS & R ACROSS ROOF TO CONNECT TO UNIT COIL. INSTALL CONTROL VALVES INSIDE UNIT VESTIBULE PROVIDED.
 3. ALL CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 GALVANIZED WITH MALLABLE IRON SCREWED FITTINGS.

1 FLOOR MOUNTED RTU DETAIL
NOT TO SCALE

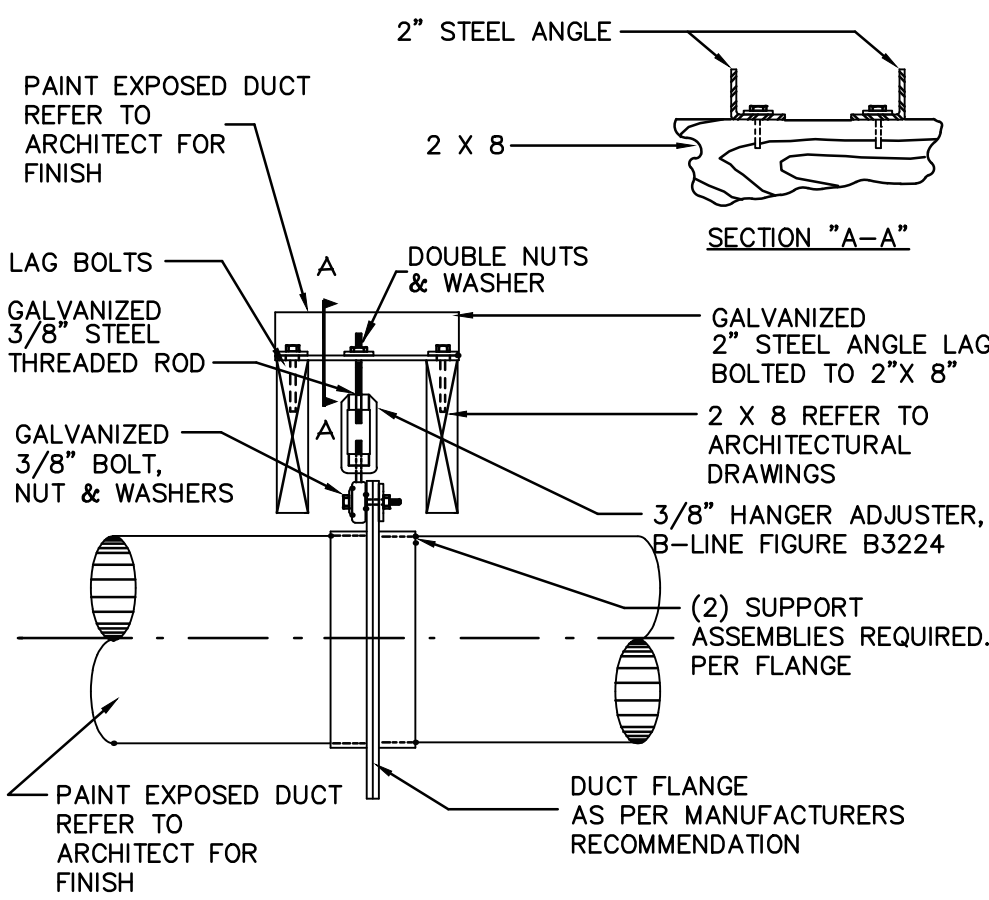


- NOTES:
1. PIPES AND ELECTRICAL CONDUIT CAN BE ROUTED BETWEEN JOISTS OR THROUGH JOIST WEB SPACE AS REQUIRED. 2- DUCT SHALL BE LOCATED AS HIGH AS POSSIBLE.
 2. U.L. DESIGN ASSEMBLY NUMBERS ARE SHOWN ON ARCHITECTURAL PLANS WHEN REQUIRED.
 3. INSTALLATION OF ALL SERVICES MUST BE COORDINATED BY THE CONTRACTOR.

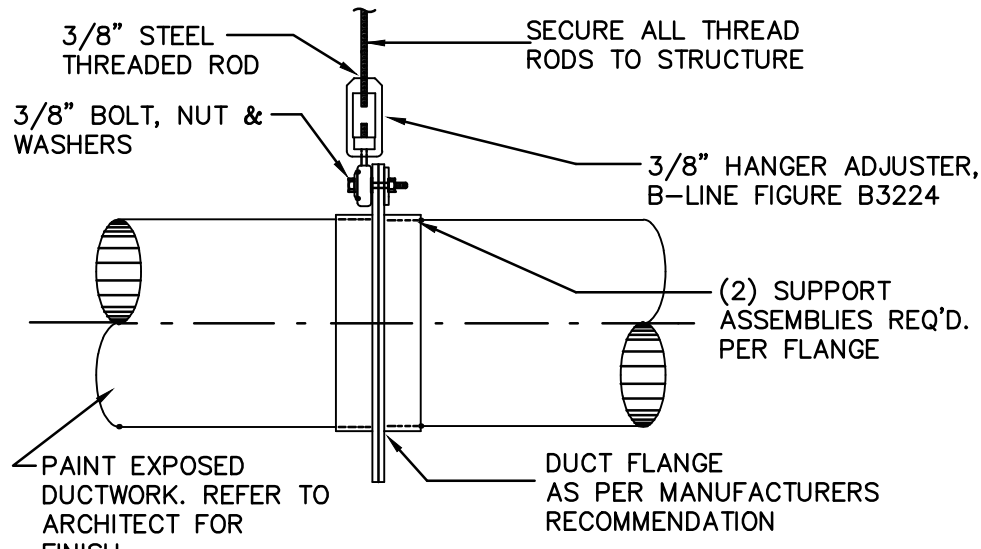
2 OA INTAKE OR EXHAUST RELIEF HOOD
NOT TO SCALE



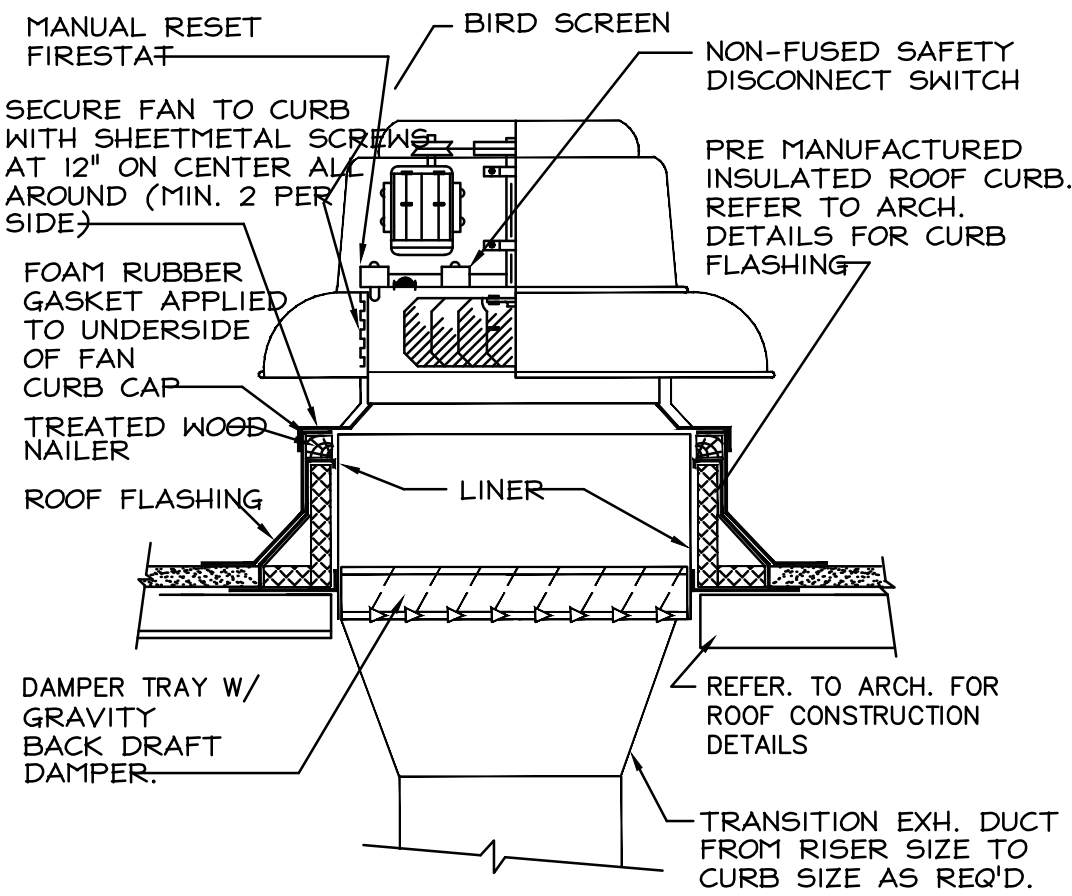
3 TYP. MEP INSTALLATION DETAIL
NOT TO SCALE



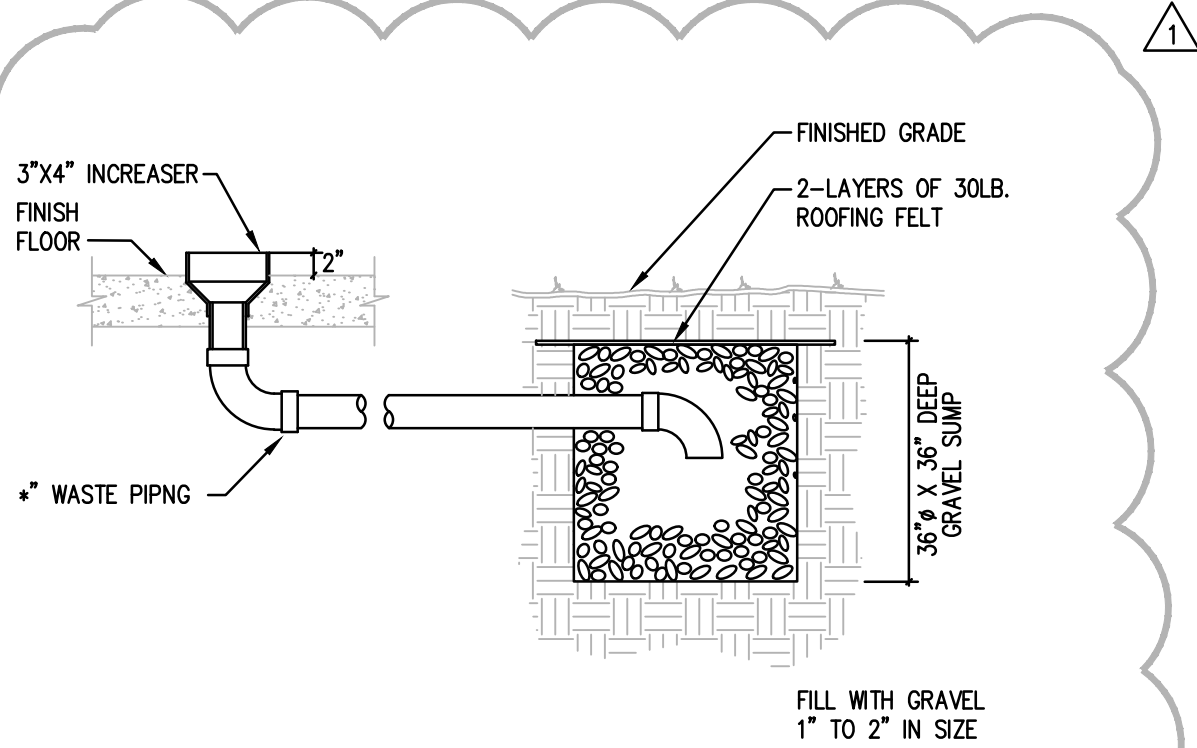
4 OVAL OR ROUND DUCT MOUNTING
NOT TO SCALE



5 OVAL OR ROUND DUCT HANGER
NOT TO SCALE



6 CENTRIFUGAL ROOF EXHAUST FAN
NOT TO SCALE



7 CONDENSATE DRAIN WELL DETAIL
NOT TO SCALE





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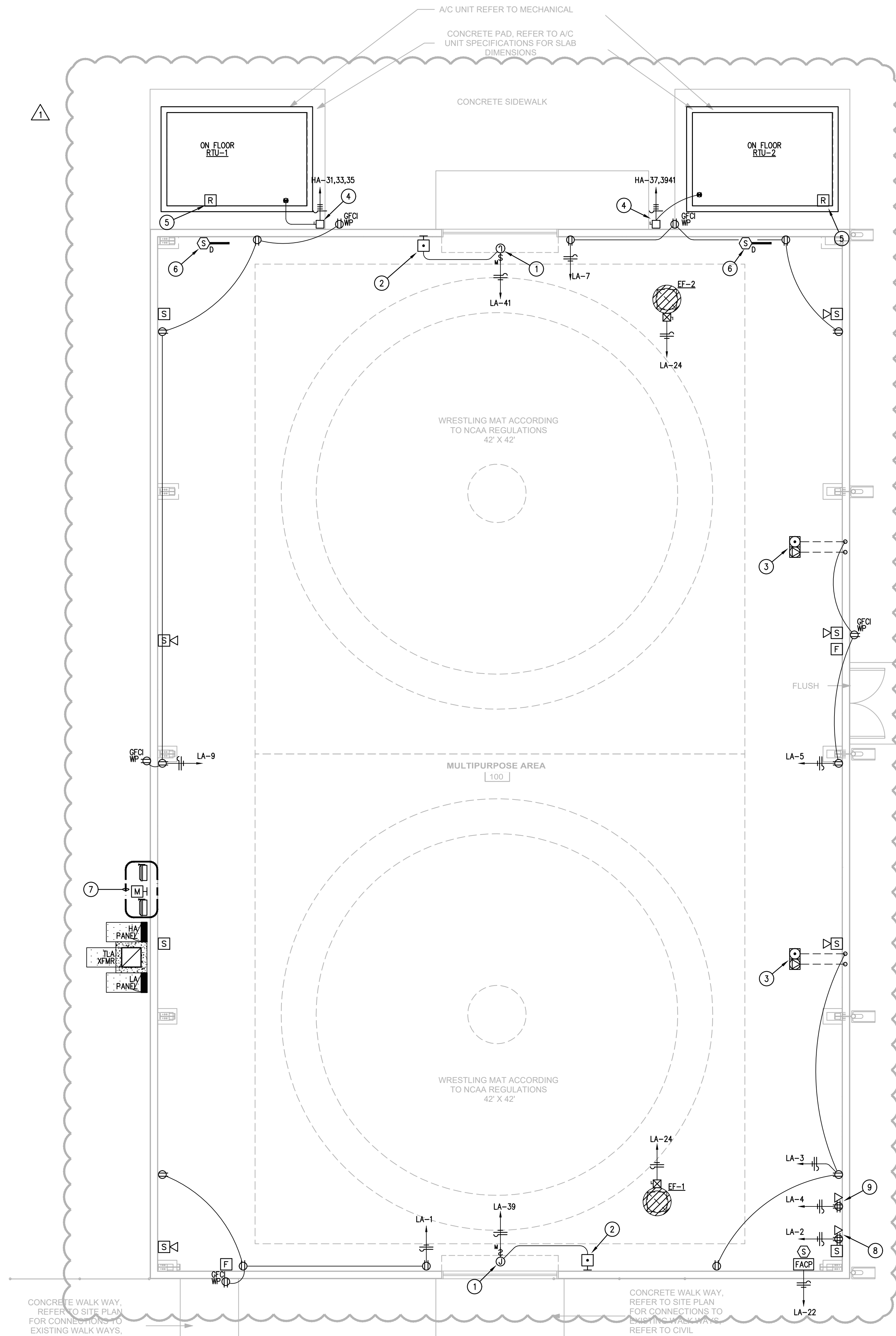
ELECTRICAL
POWER
FLOOR PLAN



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E1.1



ELECTRICAL KEYED NOTES:

1. PROVIDE 120V POWER FOR MOTORIZED OVERHEAD DOOR. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH DOOR INSTALLER PRIOR TO PLACEMENT. PROVIDE MOTOR RATED SWITCH.
2. PROVIDE BACK BOX FOR UP/DOWN PUSHBUTTON CONTROL STATION FOR MOTORIZED OVERHEAD DOOR. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH DOOR INSTALLER PRIOR TO ROUGH-IN. ROUTE (1) 3/4" CONDUIT WITH CONTROL WIRE TO MOTORIZED DOOR CONTROL BOX.
3. PROVIDE HUBBELL 4-GANG FLOOR BOX #CFBG30RCR WITH (2) # PWFEMPCR20GRYTR DUPLEX RECEPTACLES, #CFBHUB2 HUB AND #CFBS18R80VXX COVER. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH ARCHITECT AND OWNER PRIOR TO PLACEMENT. ROUTE (1) 3/4" UNDERGROUND CONDUIT FOR POWER WIRING AND (1) 2" UNDERGROUND CONDUIT WITH PULL-STRING FOR DATA CABLING TO NEAREST WALL AND UP TO STRUCTURE.
4. PROVIDE 60A/3P/NF/N3R SAFETY DISCONNECT FOR ROOF TOP UNIT. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO PLACEMENT.
5. PROVIDE FIRE ALARM SYSTEM SHUT DOWN RELAY FOR HVAC EQUIPMENT. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO PLACEMENT.
6. PROVIDE DUCT SMOKE DETECTOR FOR HVAC EQUIPMENT SHUT DOWN. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO PLACEMENT.
7. PROPOSED LOCATION FOR SERVICE EQUIPMENT AND POWER COMPANY METERING GEAR. REFER TO ONE LINE DIAGRAM AND SITE PLANS FOR ADDITIONAL INFORMATION.
8. PROVIDE QUAD RECEPTACLE AND DATA OUTLET FOR I.T. RACK. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO PLACEMENT.
9. PROVIDE QUAD RECEPTACLE AND DATA OUTLET FOR SOUND EQUIPMENT. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH AV CONTRACTOR PRIOR TO ROUGH-IN.

ELECTRICAL GENERAL NOTES:

- A. ELECTRICAL CONTRACTOR SHALL GROUP HOMERUNS WITH THREE HOTS (A,B, AND C PHASE), AND #10 NEUTRAL TO PROVIDE MULTI-WIRE BRANCH CIRCUITS. NO MORE THAN 2 MULTI-WIRE HOMERUNS PER CONDUIT. CONTRACTOR SHALL PROVIDE HANDLE TIES MANUFACTURED BY THE SWITCH GEAR SUPPLIER ON ALL MULTI-WIRE CIRCUITS TO MEET THE REQUIREMENTS OF ARTICLE 210.4(B) OF THE 2020 NEC. AT THE CONTRACTOR'S OPTION, TWO AND THREE POLE BREAKERS MAY BE USED.
- B. CONTRACTOR SHALL VERIFY DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL CASEWORK AND MILLWORK ELEVATIONS.
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, OUTLET BOXES, JUNCTION BOXES FOR ALL TECHNOLOGY DEVICE OUTLETS. REFER TO DIVISION 26 SPECIFICATIONS AND TECHNOLOGY DRAWINGS FOR ALL WORK REQUIRED.
- D. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL EXHAUST FAN CONTROLS. PROVIDE A FAN SWITCH IF INDICATED BY MECHANICAL. ALL EXHAUST FANS SHALL BE PROVIDED WITH BUILT-IN DISCONNECT SWITCH.
- E. HVAC AND PLUMBING EQUIPMENT MAY DIFFER FROM LOCATIONS AS SHOWN ON ELECTRICAL DRAWINGS. COORDINATE EXACT LOCATIONS WITH MECHANICAL AND PLUMBING CONTRACTOR.
- F. CONTRACTOR SHALL INDICATE CIRCUIT SERVING EACH RECEPTACLE BY PROVIDING TYPE WRITTEN LABELING LOCATED ON INSIDE FACE OF EACH RECEPTACLE COVER PLATE.
- G. ELECTRICAL CONTRACTOR SHALL ROUTE ELECTRICAL CONDUIT AND WIRING TO ALL ROOF HVAC EQUIPMENT THROUGH ROOF CURBS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- H. CONTRACTOR SHALL ARRANGE PANELBOARDS IN ELECTRICAL ROOM TO PROVIDE CLEARANCE PER NEC 110.26.
- I. MECHANICAL CONTRACTOR SHALL FURNISH INTEGRAL DISCONNECT SWITCH FOR ALL MECHANICAL EQUIPMENT. ELECTRICAL CONNECTIONS SHALL BE PROVIDED BY DIVISION 26.
- J. VAYS WITH DAMPER ONLY SHALL BE CONNECTED BY MECHANICAL CONTRACTOR.
- K. PROVIDE JUNCTION BOX AND POWER FOR ALL HARD WIRED PLUMBING FLUSH VALVES AND SENSOR EQUIPMENT TRANSFORMERS FROM NEAREST 120V/20A CIRCUIT. COORDINATE WITH PLUMBER PRIOR TO ROUGH-IN FOR EXACT LOCATION.
- L. ALL RECEPTACLES LOCATED IN RESTROOMS, JANITOR CLOSETS, MECHANICAL ROOMS, SERVING ELECTRIC DRINKING FOUNTAINS OR VENDING MACHINES, LOCATED WITHIN 6' OF A SINK, LOCATED ABOVE A WET COUNTERTOP OR IN A KITCHEN OR COFFEE BAR SHALL BE GFCI. EACH GFCI PROTECTED RECEPTACLE SHARING THE SAME CIRCUIT SHALL HAVE ITS OWN RE-SET AND TEST BUTTON.

1
E1.1
ELECTRICAL POWER FLOOR PLAN
Scale: 3/16" = 1'-0"



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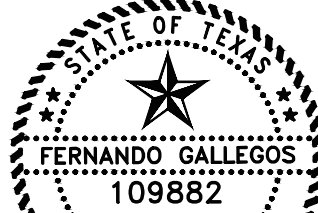
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ELECTRICAL
LIGHTING
FLOOR PLAN

E1.2

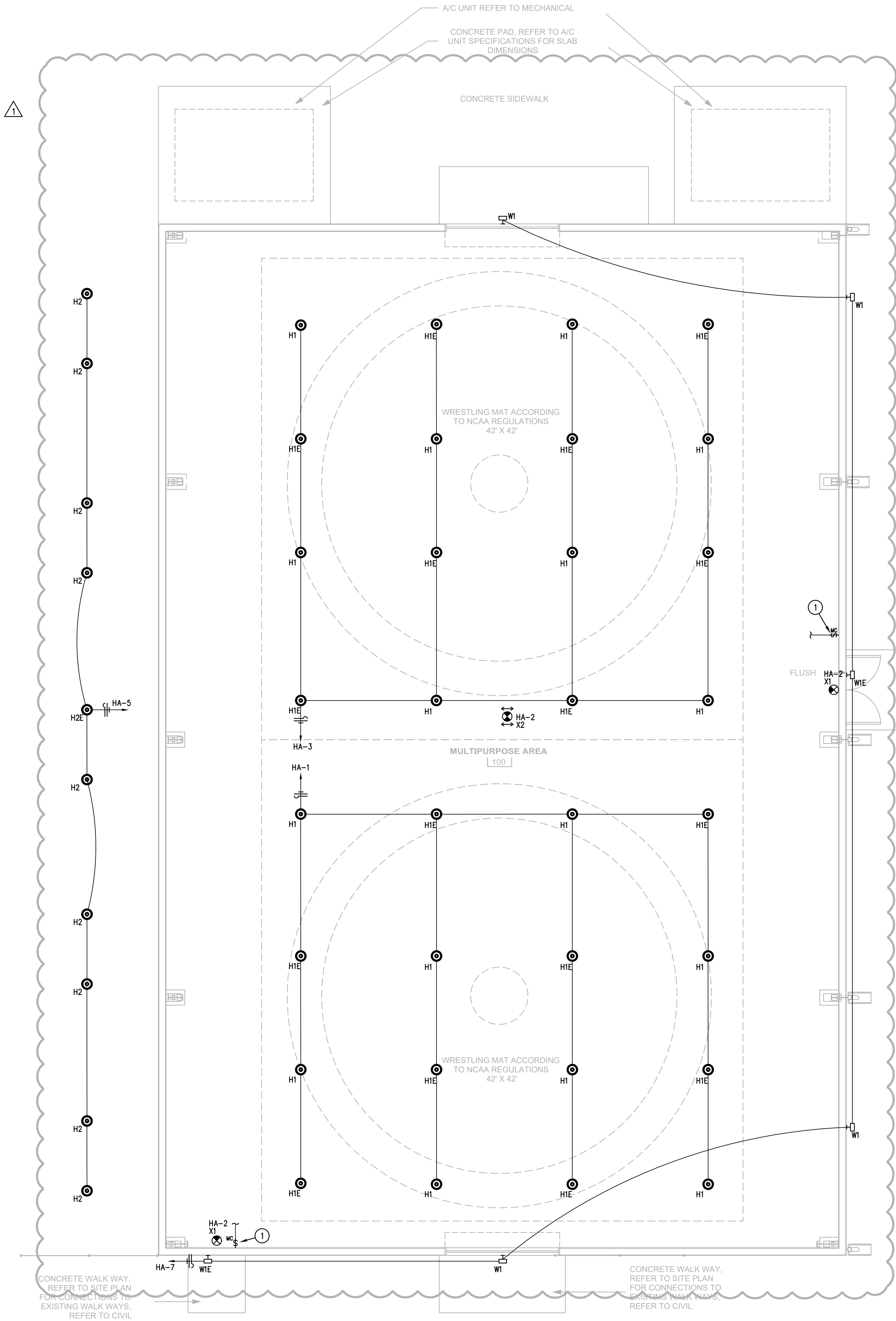
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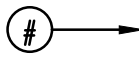


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ELECTRICAL KEYED NOTES:

1. PROVIDE MOMENTARY CONTACT SWITCH ROUTED TO INTERIOR LIGHTING LIGHTING CONTACTOR.



ELECTRICAL GENERAL NOTES:

- A. ALL CEILING MOUNTED OCCUPANCY SENSORS SHALL BE HUBBELL (WATTSTOPPER) #OMDT-2000 (#DT-300). PROVIDE (#BZ-50 UNIVERSAL VOLTAGE) POWER PACKS AND OVERRIDE SWITCHES AS REQUIRED FOR CONTROL INDICATED.
- B. ALL WALL MOUNTED OCCUPANCY SENSORS SHALL BE HUBBELL (WATTSTOPPER) #LHMTS1 (DSW-100).
- C. ALL CEILING MOUNTED DEVICES LOCATED IN LAY-IN CEILINGS SHALL BE CENTERED IN THE CEILING TILE.
- D. ALL WALL BOX DIMMERS SHALL BE LUTRON NT SERIES UNLESS NOTED OTHERWISE.
- E. MULTIPLE SWITCHES SHOWN TOGETHER SHALL BE GANGED UNDER A COMMON COVER PLATE.
- F. PROVIDE UN-SWITCHED CIRCUIT TO ALL EXIT SIGNS.
- G. CONTRACTOR SHALL INDICATE LIGHTING CIRCUIT CONTROLLED BY EACH SWITCH BY PROVIDING TYPE WRITTEN LABELING LOCATED ON INSIDE FACE OF EACH SWITCH COVER PLATE.
- H. SPRINKLER CONTRACTOR SHALL COORDINATE SPRINKLER HEAD LOCATIONS WITH CEILING MOUNTED LIGHTING FIXTURES.
- I. FIXTURES DESIGNATED "NL" SHALL BE UNSWITCHED NIGHTLIGHT. FIXTURES SHALL BE CONNECTED TO EMERGENCY CIRCUIT INDICATED.
- J. PROVIDE ALL EMERGENCY LIGHT FIXTURES WITH UNSWITCHED HOT LEG AS DEFINED IN NEC 700.12
- K. ROUTE AN UNSWITCHED HOT LEG TO ALL LIGHT FIXTURES DESIGNATED AS EMERGENCY FIXTURES. HOT LEG SHALL ORIGINATE FROM CIRCUIT SERVING NORMAL LIGHTING FIXTURES IN THAT SPACE. UNSWITCHED HOT LEG SHALL CONNECT TO THE NORMAL POWER SENSING LUG ON THE EMERGENCY BATTERY PACK.
- L. LOWER CASE CHARACTER ADJACENT TO SWITCH AND/OR LIGHTING FIXTURE INDICATES SWITCHING GROUP.

1
E1.2
ELECTRICAL LIGHTING FLOOR PLAN
Scale: 3/16" = 1'-0"