

BEE COUNTY TAX OFFICE

TAX OFFICE EXTENSIONS

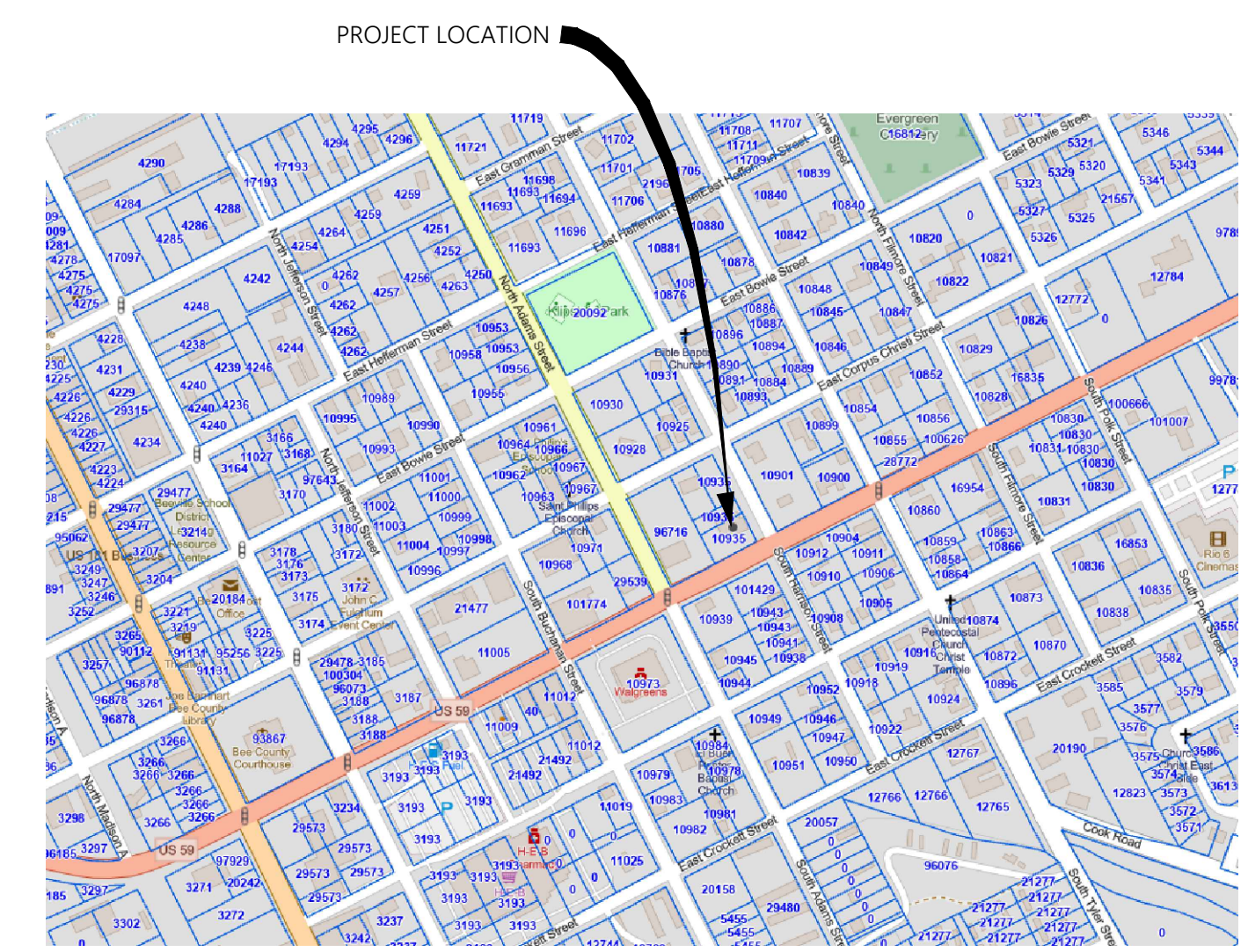
411 E. HOUSTON ST BEEVILLE, TX 78102

INDEX OF SHEETS:

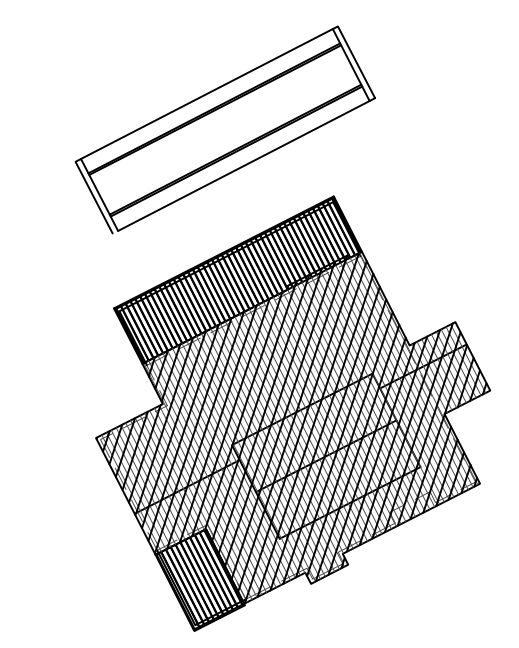
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- C1.0 DEMOLITION PLAN
- C1.1 PROPOSED SITE PLAN
- C1.2 DETAILS.
- A1.0 FLOOR PLAN
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- M000.02 MECHANICAL SPECIFICATIONS
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- M501.01 MECHANICAL DETAILS
- M601.01 MECHANICAL SCHEDULE

APPLICABLE BUILDING CODES:

- BUILDING CODE:**
- 2018 International Building Code
 - 2018 International Residential Code
 - 2018 International Property Maintenance Code
 - 2018 International Plumbing Code
 - 2018 International Fuel Gas Code
 - 2018 International Mechanical Code
 - 2018 International Fire Code
 - 2018 International Energy Code
 - 2018 International Swimming Pool & Spa Code
 - 2020 National Electrical Code
- CONSTRUCTION TYPE:** TYPE: II - B (UNPROTECTED)
- ARCHITECTURAL BARRIERS:**
2012 TEXAS ACCESSIBILITY STANDARDS (TAS)



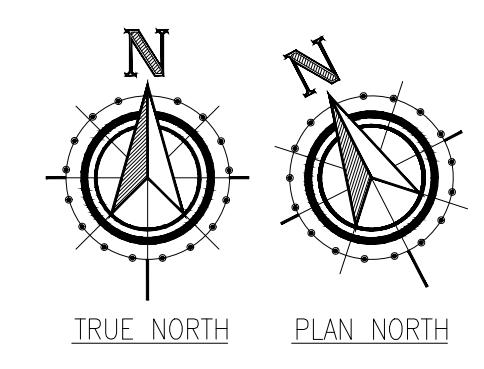
VICINITY MAP



LOCATION MAP

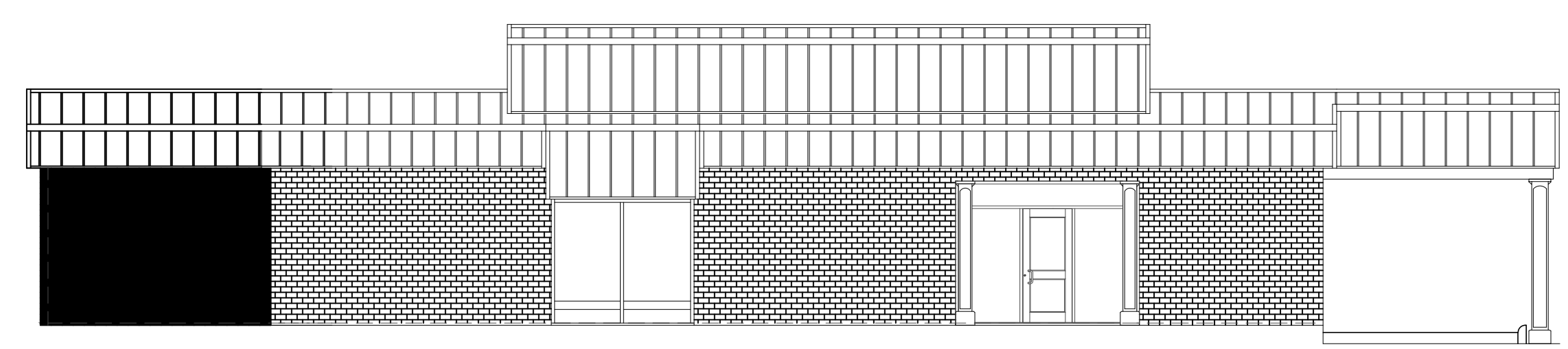
GENERAL ACCESSIBILITY NOTES

1. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE CURRENT IBC ACCESSIBILITY CODE PER CITY/COUNTY/PARISH.
2. SITE ARRIVAL POINT: THE ACCESSIBLE ROUTE OF TRAVEL FROM THE PUBLIC RIGHT-OF-WAY AND THE NEAREST ACCESSIBLE PARKING TO THE BUILDING ENTRANCE, INCLUDING THE PROVISION OF ADEQUATE TYPE, QUANTITY AND COMPLIANCE OF THE ACCESSIBLE PARKING AND THE EXTERIOR LEVEL LANDING AT BUILDING ENTRIES AND OUTSIDE SEATING AREAS, SHALL BE THE RESPONSIBILITY OF THE LANDLORD AND ARE NOT PART OF THE SCOPE OF WORK, U.O.N.
3. BUILDING ENTRANCES: WHERE NOT ALL ENTRANCES COMPLY WITH ACCESSIBILITY STANDARDS, PROVIDE SIGNAGE AS REQUIRED PER CODE.



GENERAL NOTES:

1. GENERAL CONTRACTOR SHALL VISIT THE SITE TO INSPECT EXISTING CONDITIONS WITH REGARD TO THE SCOPE OF WORK PRIOR TO BIDDING PROJECT. IMMEDIATELY NOTIFY ARCHITECT IN WRITING OF ANY AMBIGUITIES FOR CLARIFICATION.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS, QUANTITIES, ETC. PRIOR TO SUBMITTING BID.
3. ALL EXISTING ITEMS TO REMAIN OR BE RELOCATED SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. ALL EXISTING ITEMS TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER, AS DIRECTED BY THE ARCHITECT.
4. CONTRACTOR TO LEGALLY DISPOSE OF ALL CONSTRUCTION DEBRIS, EXCESS SOIL, EXTRA MATERIALS AND DEMOLISHED ITEMS.
5. AT NO TIME DURING THE PROCESS OF THE WORK SHALL THE CONTRACTOR INTERRUPT THE CONTINUITY OF ANY OF THE REQUIRED SERVICES TO THE EXISTING BUILDINGS DURING SCHEDULED USAGE BY THE OWNER. ANY DAMAGE TO THESE SERVICES SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
6. CONTRACTOR SHALL WALK THE SITE, WHERE THE WORK WILL TAKE PLACE, WITH THE OWNERS REPRESENTATIVE & IDENTIFY, LOCATE & PHOTOGRAPH ALL DAMAGED WALKS, ETC. TO DETERMINE LOCATION & AMOUNTS OF EXISTING DAMAGE PRIOR TO BEGINNING WORK. MAIL A COPY OF THE LIST & PHOTOGRAPHS TO THE OWNER & THE ARCHITECT. VIDEO TAPE WITH VERBAL DESCRIPTION & LOCATION IS ACCEPTABLE.
7. ALL CONSTRUCTION WILL CONFORM TO ALL PERTINENT BUILDING CODES FOR THE AREA.
8. NO SUBSTITUTIONS OF BUILDING COMPONENTS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE OWNER OR ARCHITECT.
9. THE GENERAL CONTRACTOR & ALL SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, & REPORT ALL DISCREPANCIES TO THE ARCHITECT IN WRITING PRIOR TO COMMENCING ANY WORK THAT WOULD BE AFFECTED.
10. ONCE DEVIATIONS ARE CORRECTED, CONTRACTOR WILL INFORM ARCHITECT SO AN INSPECTION OF THE NEW WORK CAN BE PERFORMED.
11. THESE DRAWINGS ARE NOT INTENDED TO BE AN EXACT REPRESENTATION OF ALL CONDITIONS OR MATERIALS REQUIRED TO CONSTRUCT THIS PROJECT.



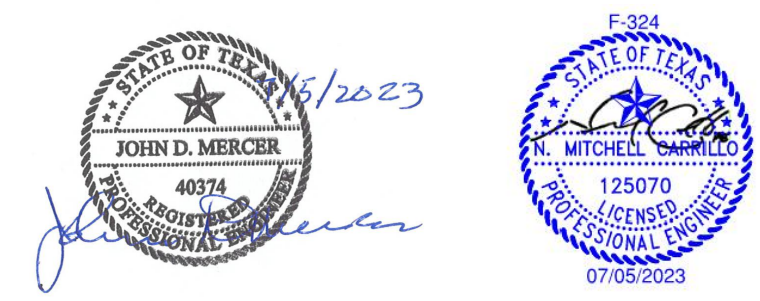
DOCUMENT ISSUE DATE:

ISSUED FOR FID: 07/07/2023
 ADDENDUM: 00/00/0000
 CONSTRUCTION ISSUE: 00/00/2023

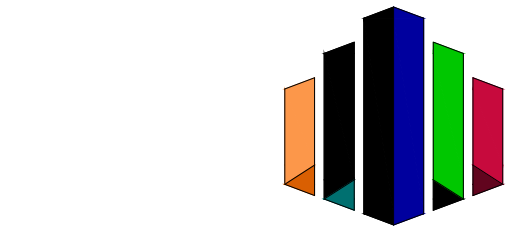
PREPARED BY

CONSULTANTS

LYNN ENG. JOB No. 10.100208

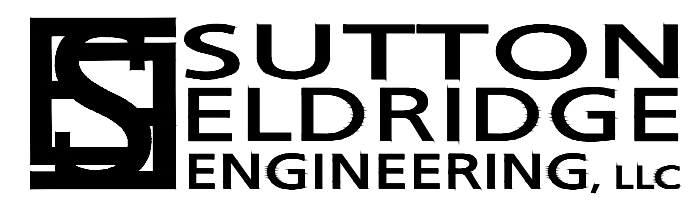


COORDINATING ENGINEERING
STRUCTURAL
LYNN ENGINEERING



MITCHELL CARRILLO, PE, STRUCTURAL
JOHN D. MERCER, PE, CIVIL

COORDINATING MEP
MECHANICAL/ELECTRICAL/PLUMBING



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This drawing is part of a set of drawings for his project and shall not be considered valid unless it is accompanied by the complete set of drawings.

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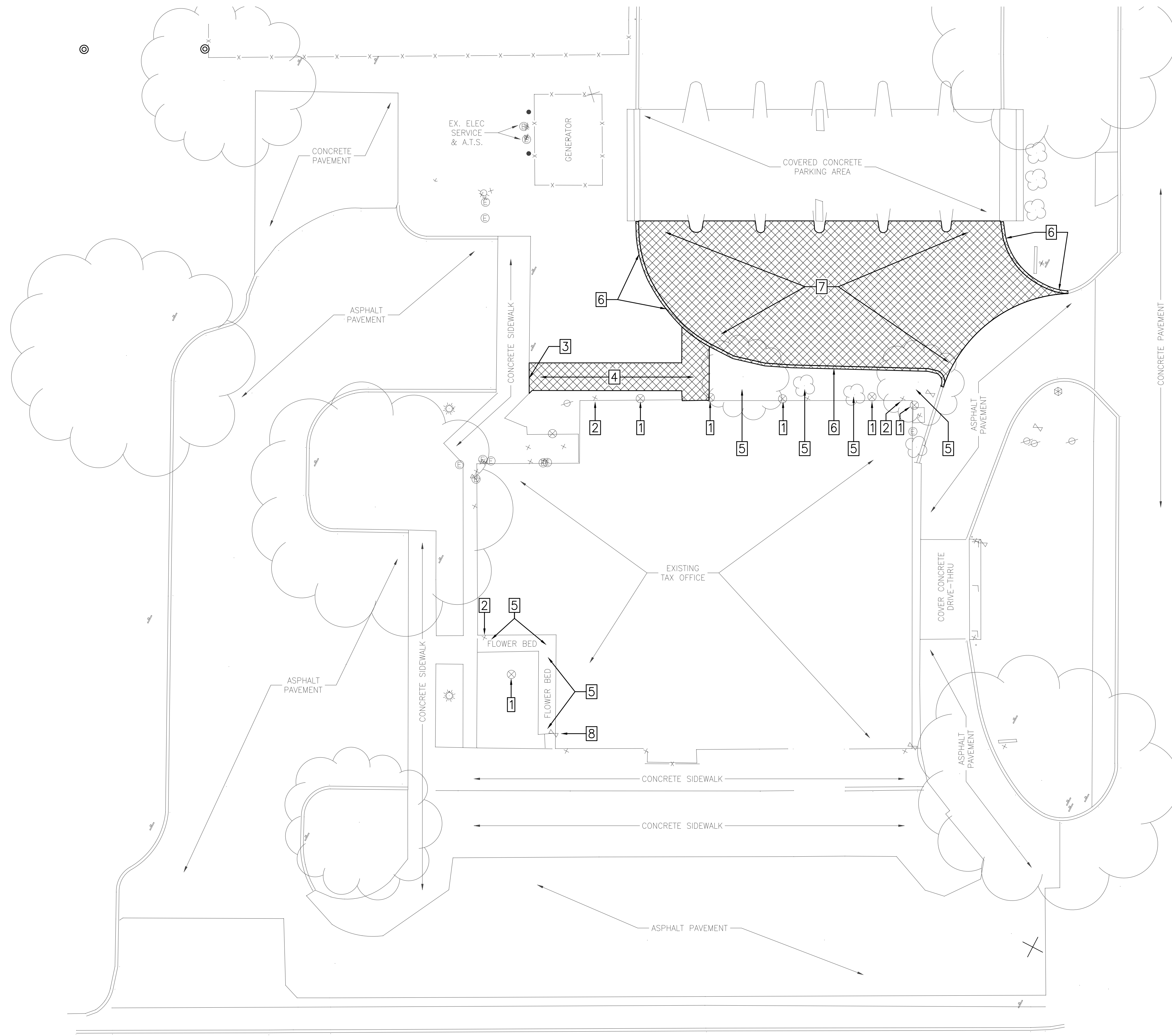
TEXAS ONE CALL PARTICIPANT'S REQUEST
48 HOURS NOTICE BEFORE YOU DIG,
DRILL, OR BLAST - STOP AND CALL



Know what's below.
Call before you dig.

THE LONE STAR NOTIFICATION COMPANY
AT 1-800-669-8344

○ POWER POLE	⊕ TELEPHONE BOX	⬢ CONTROL POINT	— S SEWER LINE
⊖ WATER METER	⊕ GAS METER	⊠ CABLE TELEVISION BOX	— SS STORM SEWER LINE
○ CLEANOUT	⊕ ELECTRIC BOX	▨ EXISTING BLDG.	— X FORCE MAIN
○ MANHOLE	● POST	— G GAS LINE	— P POWER LINE
⊙ PROPERTY CORNER	↑ GUY WIRE	— X FENCE	— T UNDER GROUND TELEPHONE LINE
⊕ MAIL BOX	⊕ FIREHYDRANT	— W WATER LINE	— E UNDER GROUND ELECTRICAL LINE
⊕ SIGN	⊕ GATE VALVE		



- EXTERIOR DEMOLITION NOTES:**
1. ISOLATE AND REMOVE SPRINKLERS AND PIPING AS REQUIRED.
 2. REMOVE EXISTING DOWNSPOUTS AND RE-ROUTE ROOF DRAINAGE AS REQUIRED.
 3. FULL DEPTH SAW-CUT SIDEWALK.
 4. REMOVE EXISTING SIDEWALK.
 5. REMOVE EXISTING VEGETATION AND DISPOSE OF DEBRIS OFFSITE.
 6. REMOVE EXISTING CONCRETE CURB AS REQUIRED.
 7. REMOVE ASPHALT AND BASE AS REQUIRED. SALVAGE TO COUNTY.
 8. LOCATE AND CAP/PLUG EXISTING WATER LINE OUTSIDE OF CONSTRUCTION AREA.

F-324

 ARCH/ENG SEAL:

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**BEE COUNTY TAX OFFICE
 ADDITIONS AND RENOVATIONS
 411 E. HOUSTON ST.
 BEEVILLE, TX. 78102**

**BEE COUNTY
 105 W. CORPUS CHRISTI ST.
 BEEVILLE, TX. 78102**

CUSTOMER NAME:

DESIGN INFO:	PROJECT FILE NO.:	BEE COUNTY TAX
DRAWN BY:	BC	JR
CHECKED BY:	BC	JR
DESIGNED BY:	BC	JR
JOB NO.:	10.100208	

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00/00/00	CONSTRUCTION

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00/00/00	REVISION 3
00/00/00	REVISION 4

- POWER POLE
- WATER METER
- CLEANOUT
- MANHOLE
- ⊙ PROPERTY CORNER
- ⊙ MAIL BOX
- ⊙ SIGN
- ⊙ TELEPHONE BOX
- ⊙ GAS METER
- ⊙ ELECTRIC BOX
- POST
- ⊙ GUY WIRE
- ⊙ FIREHYDRANT
- ⊙ GATE VALVE
- ⊙ CONTROL POINT
- ⊙ CABLE TELEVISION BOX
- ⊙ EXISTING BLDG.
- ⊙ GAS LINE
- ⊙ FENCE
- ⊙ WATER LINE
- S — SEWER LINE
- SS — STORM SEWER LINE
- X — FORCE MAIN
- P — POWER LINE
- T — UNDER GROUND TELEPHONE LINE
- E — UNDER GROUND ELECTRICAL LINE

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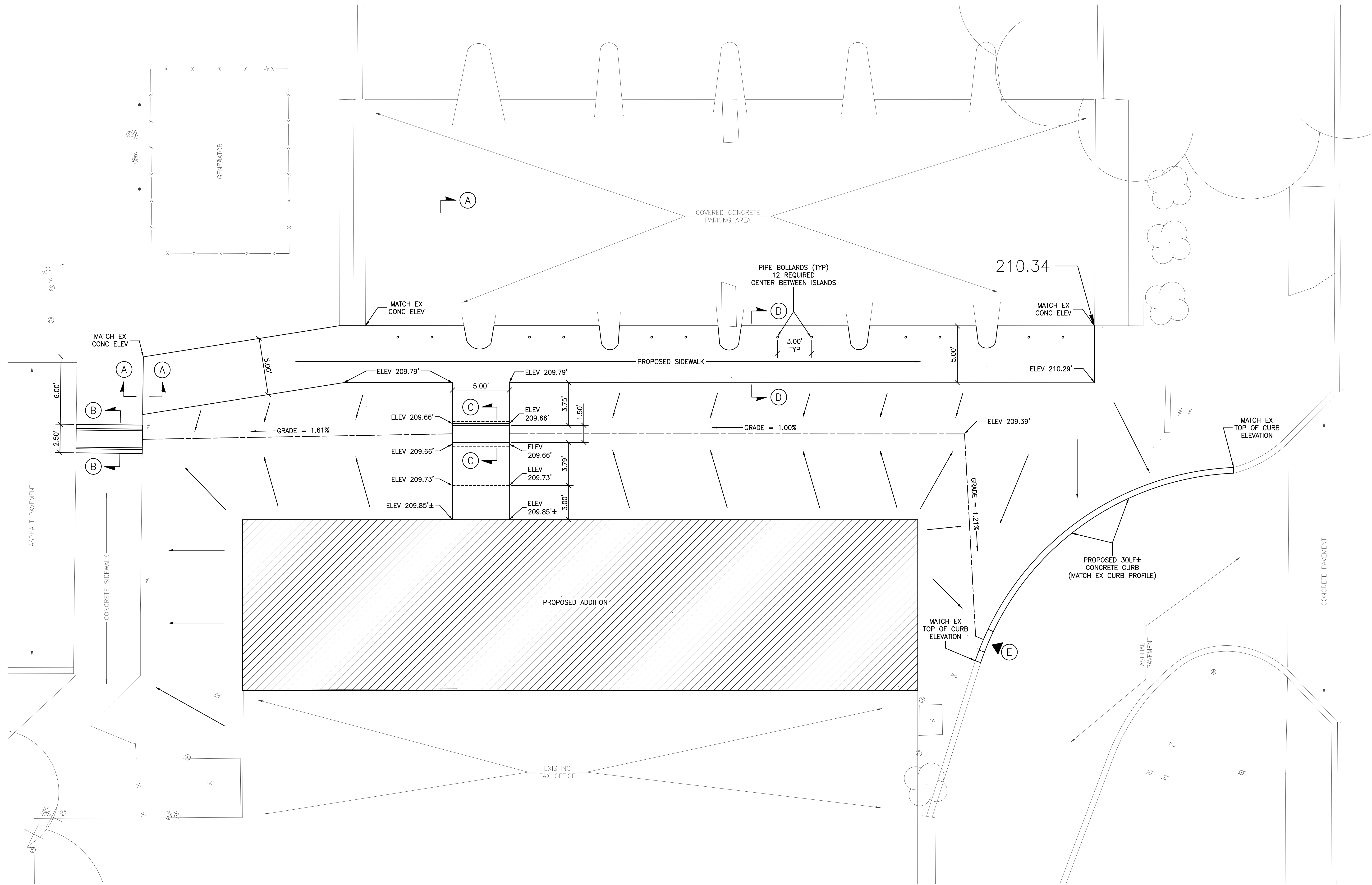
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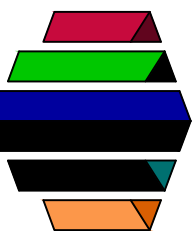




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BEE COUNTY TAX OFFICE
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 BEEVILLE, TX. 78102

CUSTOMER NAME:

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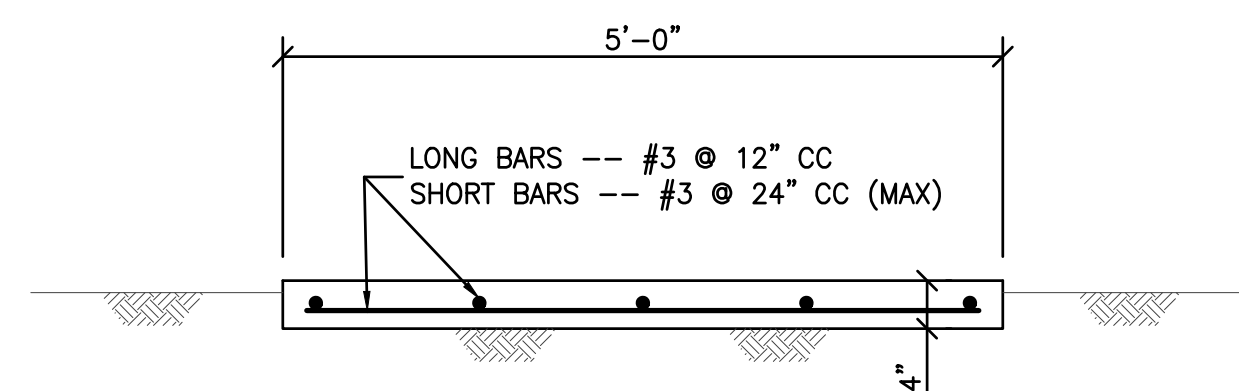
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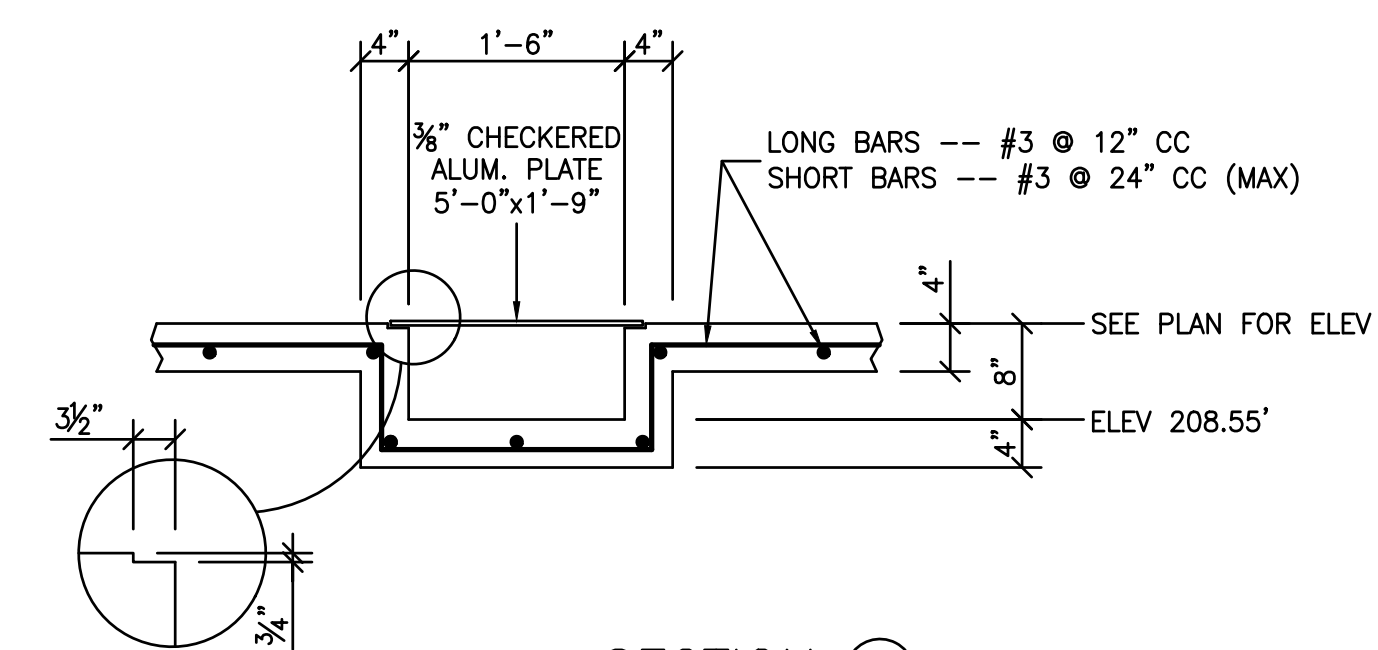
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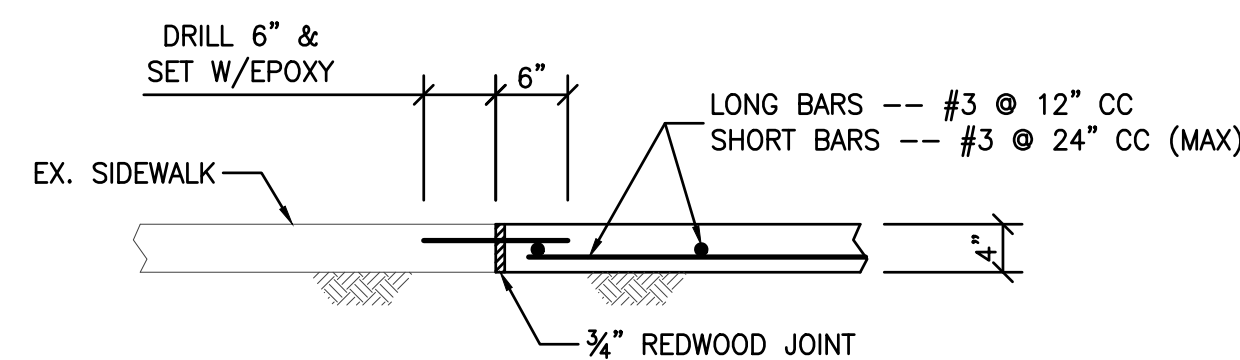
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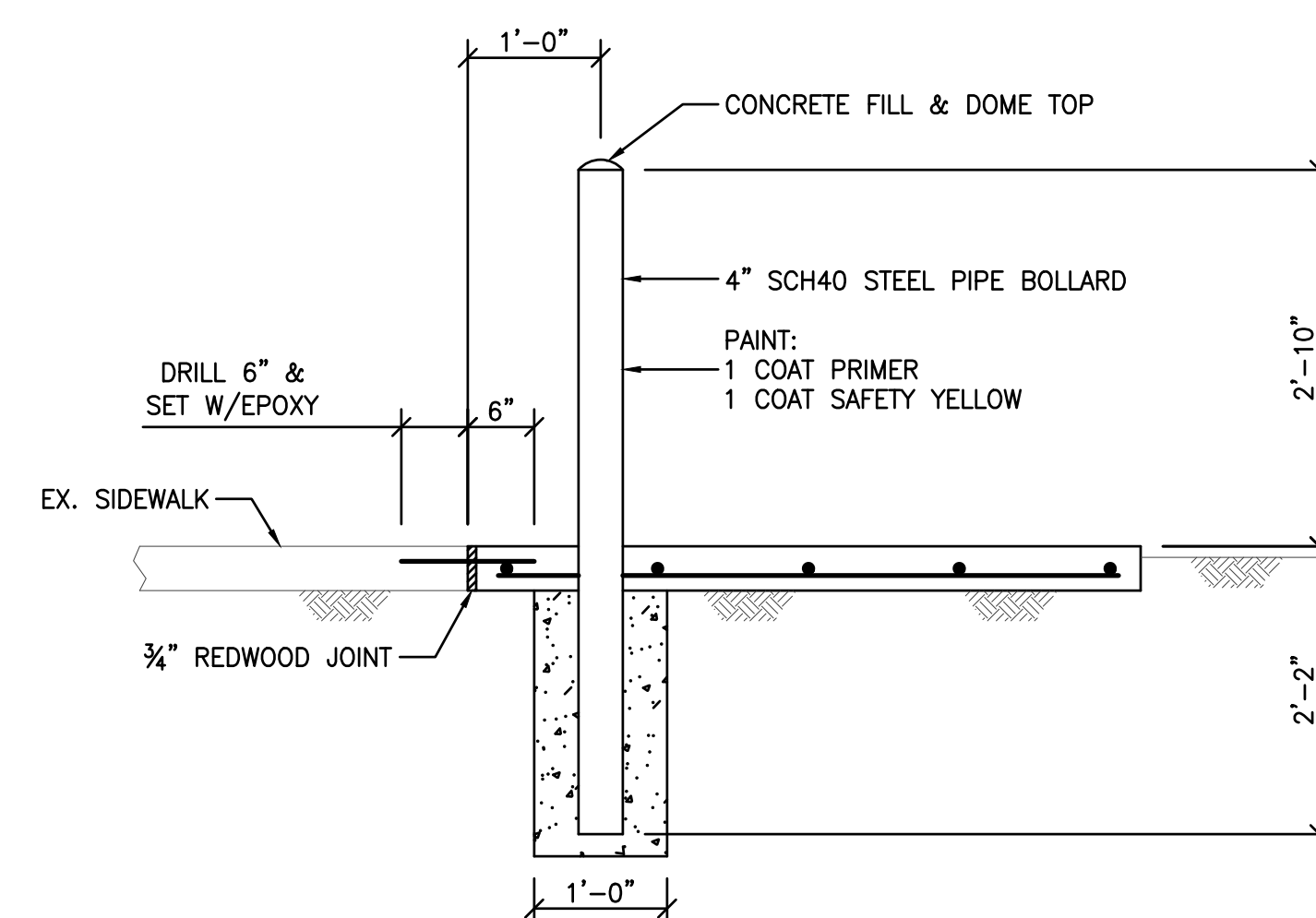
TYPICAL SIDEWALK DETAIL
 SCALE: 3/4"=1'-0"



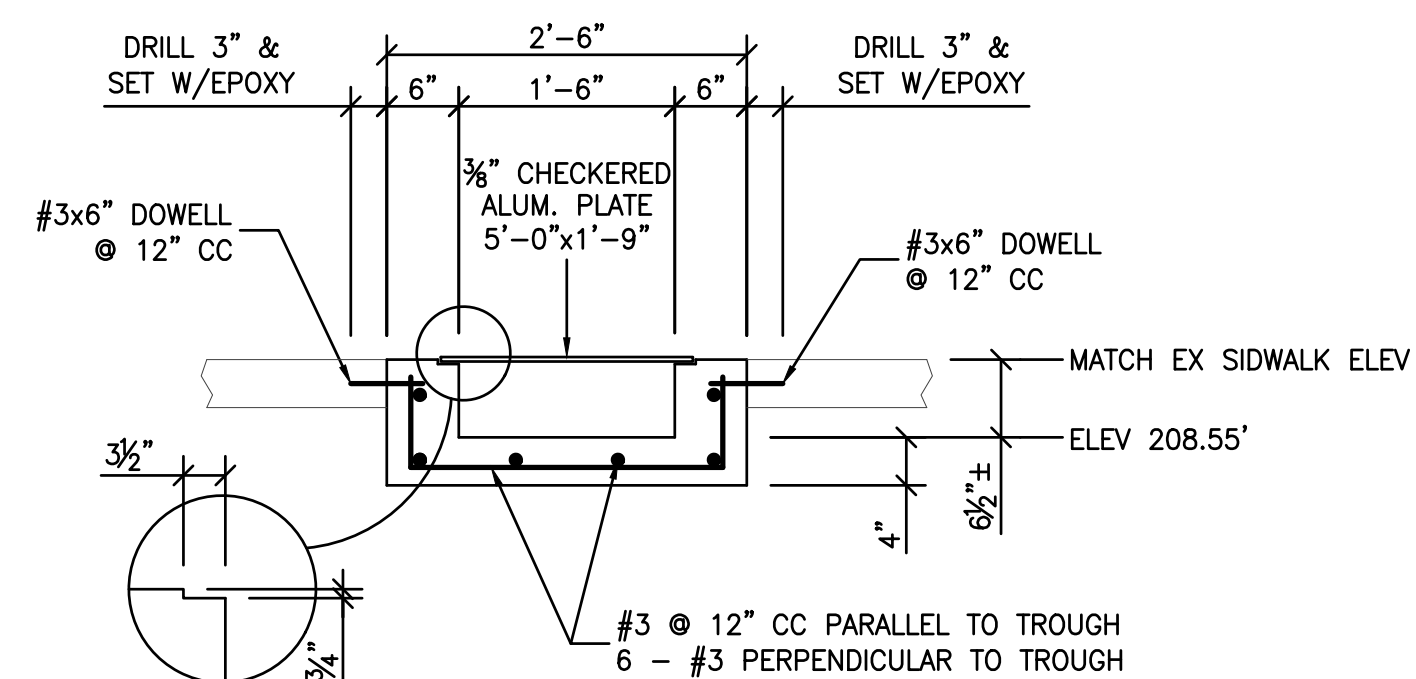
SECTION C
 SCALE: 3/4"=1'-0"



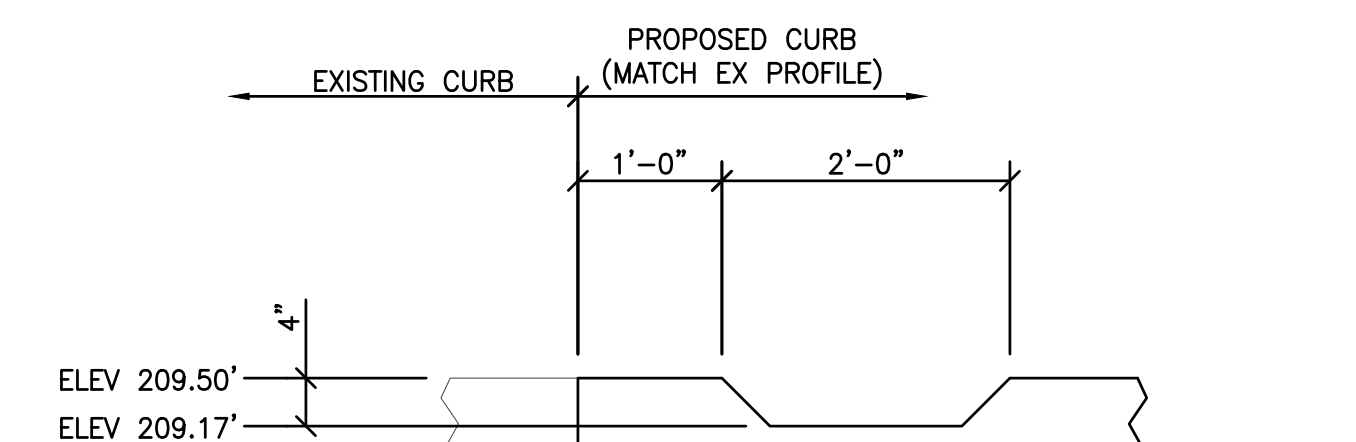
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 SCALE: 3/4"=1'-0"



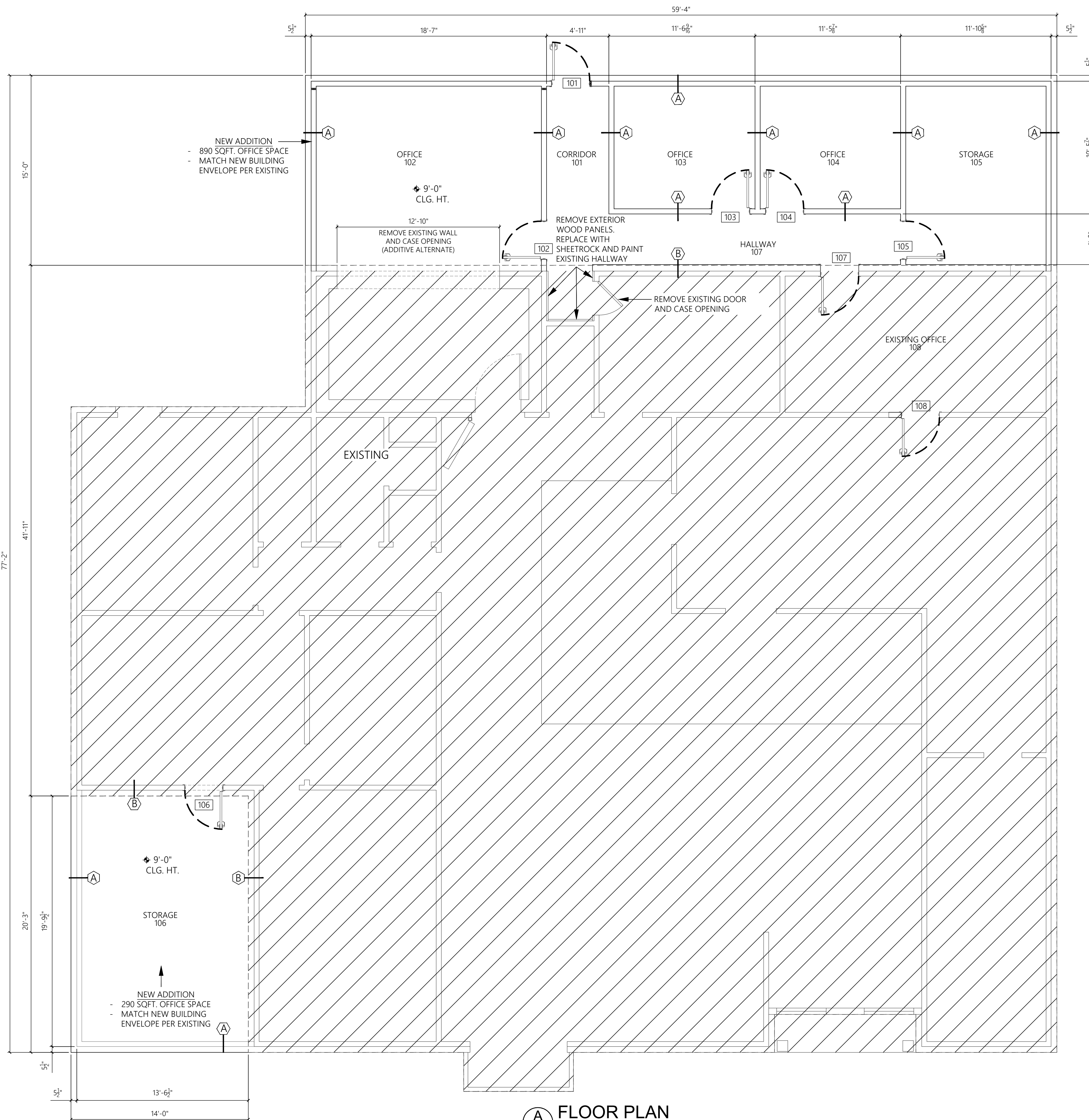
SECTION D
 SCALE: 3/4"=1'-0"

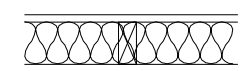



SECTION B
 SCALE: 3/4"=1'-0"



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



-  (A) 5/8" GYP.BD. ON INTERIOR SIDE OF STUDS.
1/2" WALL SHEATHING ON EXTERIOR SIDE.
PROVIDE SOUND BATT INSULATION.
-  (B) 5/8" GYP.BD. ON INTERIOR SIDE OF NEW STUDS.
PROVIDE SOUND BATT INSULATION.

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

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



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BEE COUNTY TAX OFFICE
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411 E. HOUSTON ST.
BEEVILLE, TX. 78102
FLOOR PLAN

BEE COUNTY
105 W. CORPUS CHRISTI ST.
BEEVILLE, TX. 78102

CUSTOMER NAME:

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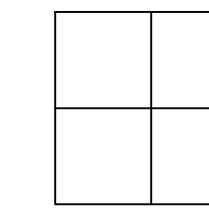
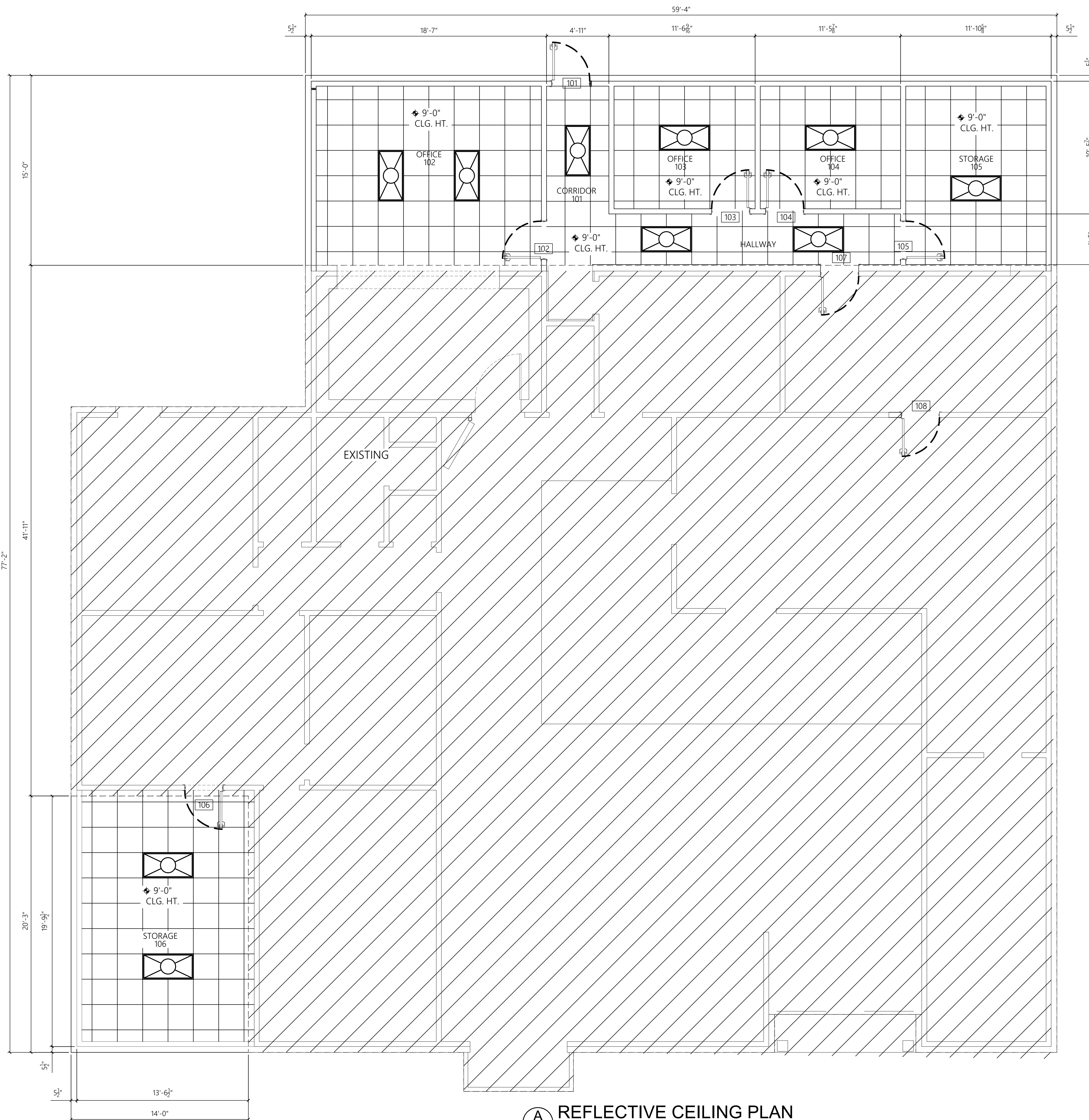
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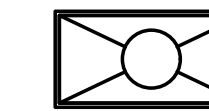
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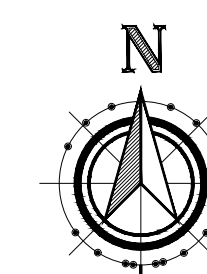
2' x 2' ACOUSTICAL PANEL CEILING
(CENTER GRID IN ROOM U.N.O.)



2' x 4' FLAT PANEL LED TROFFER: REF MEP

1
A1.1 RCP LEGEND
SCALE: 1/8" = 1'-0"

A
A1.1 REFLECTIVE CEILING PLAN
SCALE: 1/4" = 1'-0"



PLAN NORTH

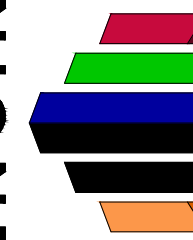
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REFLECTIVE CEILING PLAN

PROJECT NAME:

BEE COUNTY
105 W. CORPUS CHRISTI ST.
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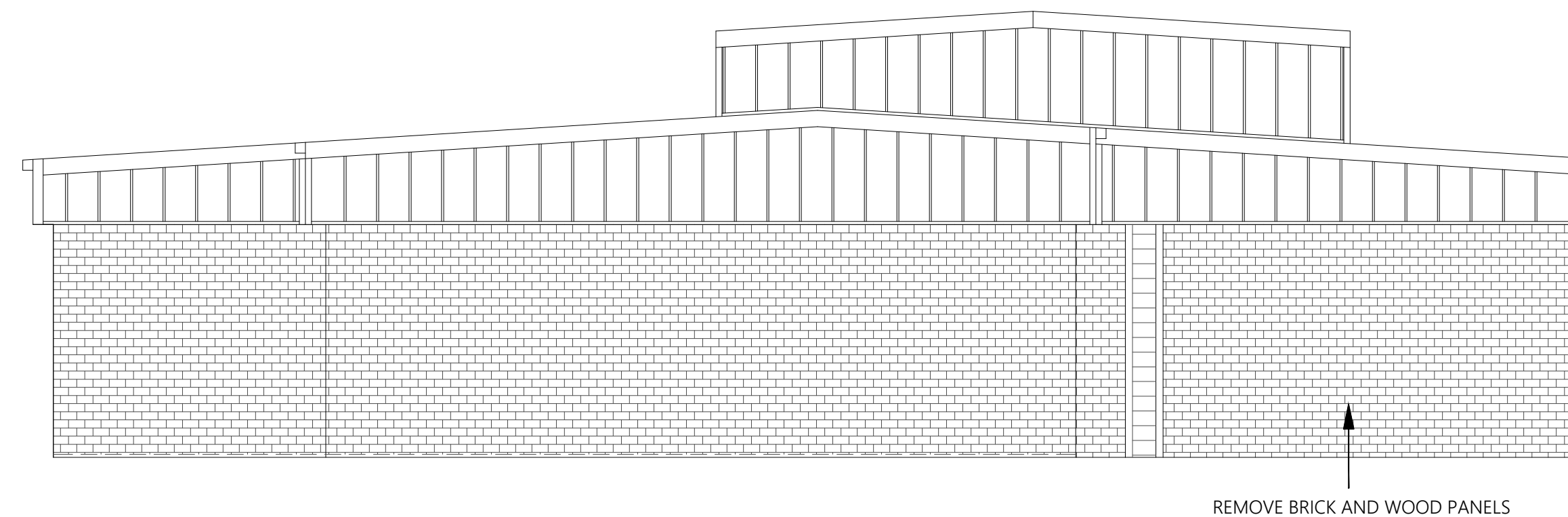
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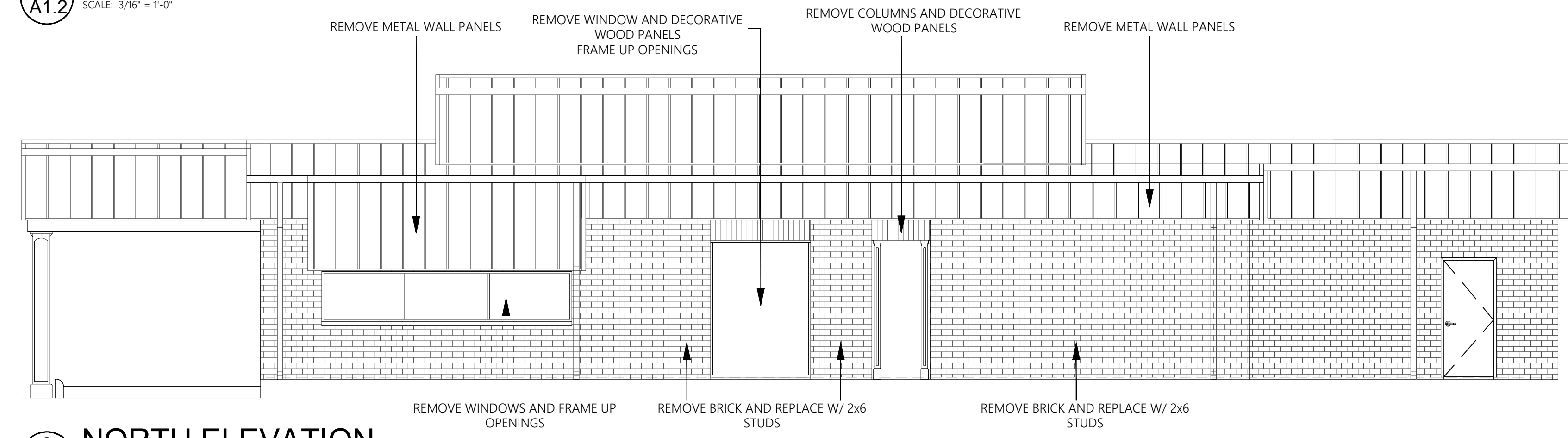
A1.1



4 EAST ELEVATION - (S. HARRISON ST.)
 A1.2 SCALE: 3/16" = 1'-0"



3 WEST ELEVATION
 A1.2 SCALE: 3/16" = 1'-0"



NOTE:
 1. PROVIDE AIR BARRIER OVER WINDOW AREA WHEN WINDOWS ARE REMOVED. WEATHERIZE WINDOW OPENINGS ON DAY OF WINDOW REMOVAL.
 2. REMOVE CAMERAS AND CONDUIT AND REINSTALL/REPLACE AS REQUIRED.

2 NORTH ELEVATION
 A1.2 SCALE: 3/16" = 1'-0"



1 SOUTH ELEVATION - (E. HOUSTON ST.)
 A1.2 SCALE: 3/16" = 1'-0"



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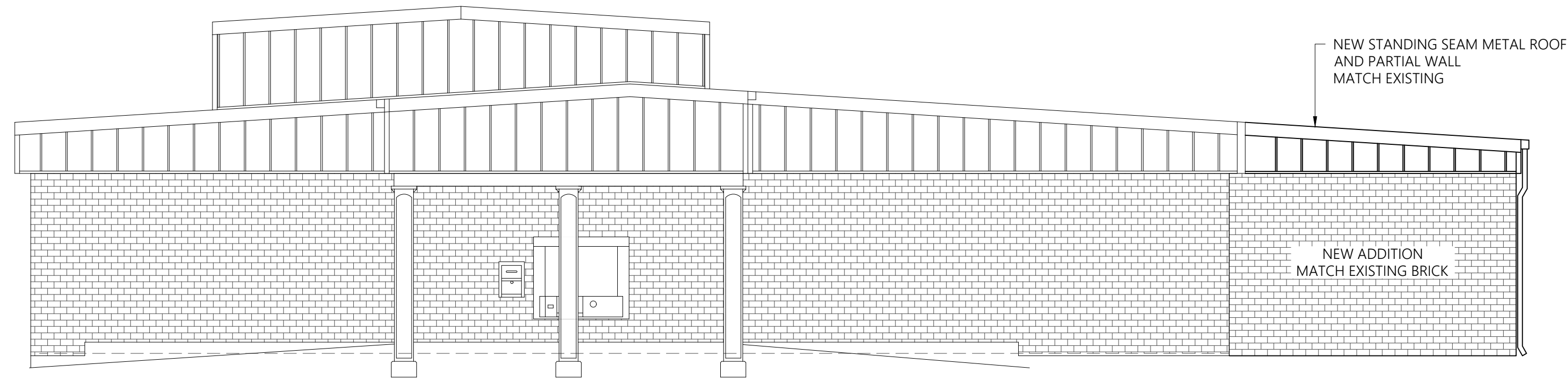
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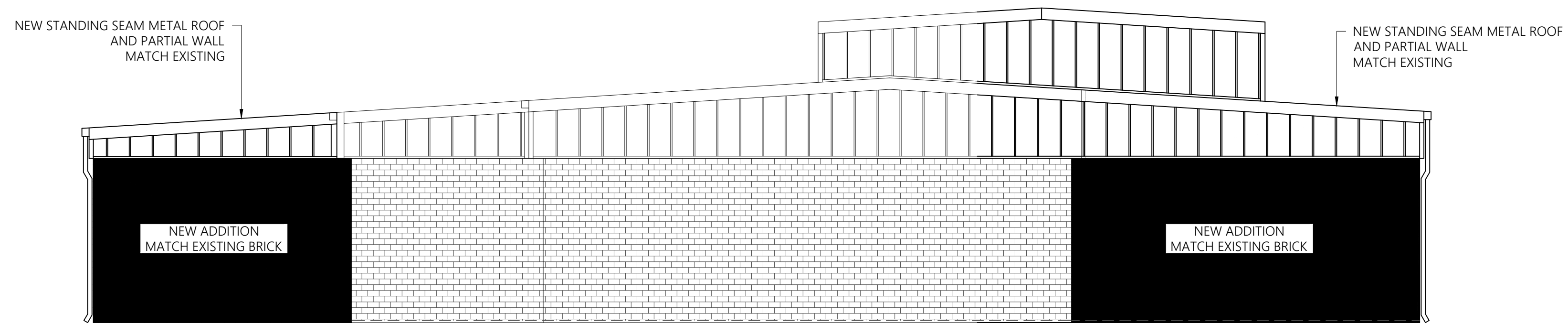
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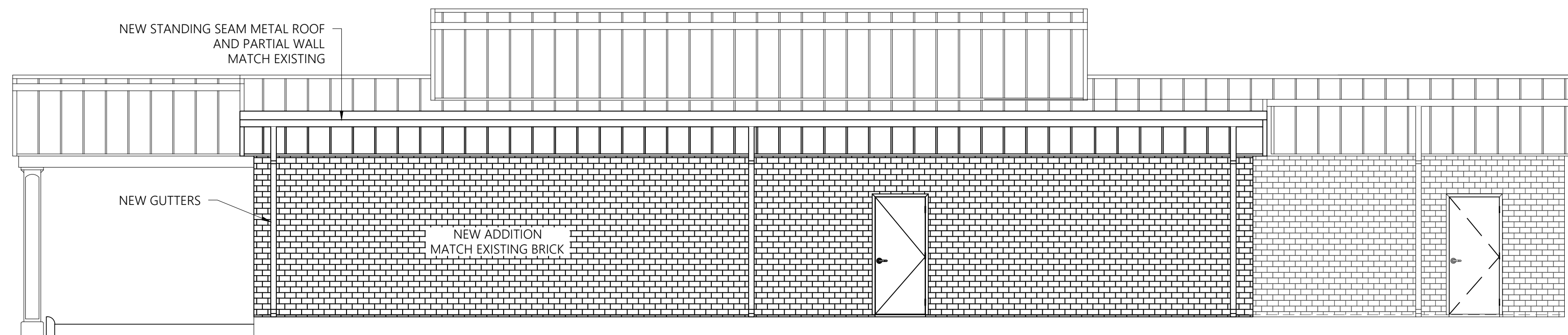
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4 EAST ELEVATION - (S. HARRISON ST.)
 A1.3 SCALE: 3/16" = 1'-0"



3 WEST ELEVATION
 A1.3 SCALE: 3/16" = 1'-0"



2 NORTH ELEVATION
 A1.3 SCALE: 3/16" = 1'-0"



1 SOUTH ELEVATION - (E. HOUSTON ST.)
 A1.3 SCALE: 3/16" = 1'-0"



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PAGE NO:

ROOM SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	NORTH WALL	WEST WALL	SOUTH WALL	EAST WALL	MILLWORK	CEILING	REMARKS
101	CORRIDOR	CARPET SQUARES	RB	IP-1	IP-1	IP-1	IP-1		9' HT	
102	OFFICE	CARPET SQUARES	RB	IP-1	IP-1	IP-1	IP-1		9' HT	
103	OFFICE	CARPET SQUARES	RB	IP-1	IP-1	IP-1	IP-1		9' HT	
104	OFFICE	CARPET SQUARES	RB	IP-1	IP-1	IP-1	IP-1		9' HT	
105	STORAGE	CARPET SQUARES	RB	IP-1	IP-1	IP-1	IP-1		9' HT	
106	STORAGE	CARPET SQUARES	RB	IP-1	IP-1	IP-1	IP-1		9' HT	
107	HALLWAY	CARPET SQUARES	RB	IP-1	IP-1	IP-1	IP-1		9' HT	
108	EXISTING OFFICE	CARPET SQUARES	RB	IP-1	IP-1	IP-1	IP-1		9' HT	

GENERAL NOTES

BASE
 RB 4" RUBBER COVE BASE
 WHITE SEMI-GLOSS

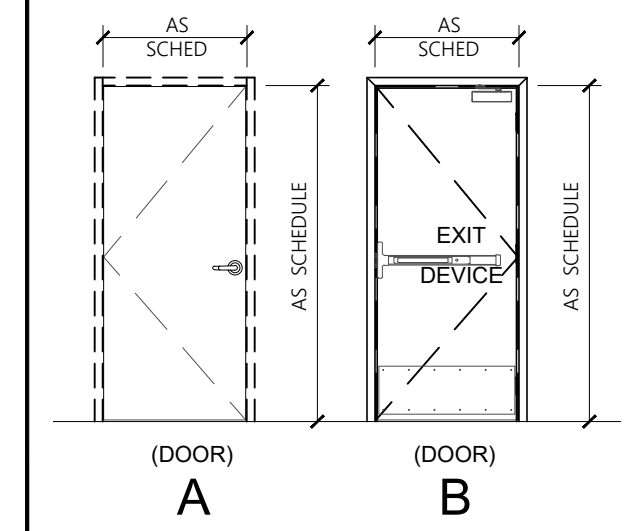
PAINT (EPOXY PAINT AS NOTED ON PLANS/SCHEDULE)
 IP-1 SHERWIN WILLIAMS - FLAT WHITE

EXTERIOR COLOR
 EW -1 BRICK - COLOR MATCH EXISTING BY OWNER

DOOR SCHEDULE

MARK	ROOM NO.	DOOR				FRAME			FIRE RATING LABEL	REMARKS													
		HARDWARE SET	MATL	W	H	THK	ELEV	TYPE			HEAD	JAMB	SILL										
101	101	D.B./L.S./P/C	HM	3'-0"	7'-0"	1 1/2"	B	HM															
102	102	D.B./L.S.	WD	3'-0"	7'-0"	1 1/2"	A	WD															PAINTED DOOR - COLOR BY OWNER
103	103	D.B./L.S.	WD	3'-0"	7'-0"	1 1/2"	A	WD															PAINTED DOOR - COLOR BY OWNER
104	104	D.B./L.S.	WD	3'-0"	7'-0"	1 1/2"	A	WD															PAINTED DOOR - COLOR BY OWNER
105	105	D.B./L.S.	WD	3'-0"	7'-0"	1 1/2"	A	WD															PAINTED DOOR - COLOR BY OWNER
106	106	D.B./L.S.	WD	3'-0"	7'-0"	1 1/2"	A	WD															PAINTED DOOR - COLOR BY OWNER
107	107	D.B./L.S.	WD	3'-0"	7'-0"	1 1/2"	A	WD															PAINTED DOOR - COLOR BY OWNER
108	108	D.B./L.S.	WD	3'-0"	7'-0"	1 1/2"	A	WD															PAINTED DOOR - COLOR BY OWNER

- DOOR: TYPICAL - WD - SOLID WOOD
 HM - HOLLOW METAL
 HG - HOLLOW METAL & GLASS
 HC - HOLLOW CORE
 AL - ALUMINUM & GLASS
 WG - SOLID WOOD & GLASS
- FINISH: TYPICAL - STN - STAIN
 PT - PAINT
 ANOD - ANODIZED
 PL - PLASTIC LAMINATE
 AP - ALUMINUM PAINTED
 SS - STAINLESS STEEL
- GLASS: TYPICAL - CW - CLEAR WIRE
 TP - TEMPERED
 CP - CLEAR PLATE
 PL - PLEXIGLASS
- FRAME: TYPICAL - WD - WOOD
 HM - HOLLOW METAL
 HW - HOLLOW METAL & WOOD
 A, SF - ALUMINUM, STOREFRONT
 A, R/M - ALUMINUM, RACO/MILL FINISH
- THE FOLLOWING NOTES APPLY TO ALL HOLLOW METAL FRAMES:
 A. ALL HOLLOW METAL FRAMES IN MASONRY OPENINGS SHALL BE FULLY GROUTED.
 B. ALL HOLLOW METAL FRAMES SHALL BE FIELD PAINTED.
 C. ALL DOOR JAMB ANCHORS SHALL BE VERIFIED WITH PLAN CONDITIONS AND SPECIFICATIONS.
 D. LABELED DOOR AND FRAMES SHALL CONFORM TO NFPA NO. 80.
 E. PENNED KNOBS SHALL BE PROVIDED FOR ALL DOORS FROM CORRIDORS TO ELECTRICAL CLOSETS, MECHANICAL ROOMS, TELEPHONE CLOSETS, AND STAIRS PENTHOUSES.
 F. ALL FRAMES ARE "WRAP AROUND" UNLESS NOTED.
 G. REFER TO PROJECT MANUAL FOR HARDWARE SPECIFICATIONS
- ALL DOORS ARE TO BE INSTALLED OR UPGRADED WITH ADA COMPLIANT HARDWARE.



HARDWARE SET LEGEND:
 D.B. DEAD BOLT
 L.S. LEVER SET
 P. PANIC BAR
 C. CLOSURE

DOOR ELEVATIONS

GENERAL NOTES:
 1. DESIGN IS PER ASCE 7-16 & IBC 2018

DESIGN LOADS:
 1. ROOF LIVE LOAD 20 PSF
 2. ROOF DEAD LOAD 10 PSF
 3. FLOOR LIVE LOAD 40 PSF
 4. FLOOR DEAD LOAD 20 PSF
 5. WIND LOAD
 5.1. 129 MPH (3 SECOND GUST)
 5.2. EXPOSURE C
 5.3. BUILDING CATEGORY: II
 5.4. COMPONENTS AND CLADDING
 5.4.1. ZONE 1 -19.92 PSF
 5.4.2. ZONE 2 -43.89 PSF
 5.4.3. ZONE 3 -71.56 PSF
 5.4.4. ZONE 4 -21.56 PSF
 5.4.5. ZONE 5 -26.56 PSF

POST INSTALLED ANCHORS:
 1. EXCEPT OTHERWISE NOTED THE FOLLOWING SIMPSON PRODUCTS MAY BE USED.
 1.1 ALL DRILLED AND EPOXYED ANCHOR BOLTS PLACED IN CRACKED OR UNCRACKED CONCRETE SHALL BE THREADED RODS WITH SIMPSON SET-XP EPOXY OR EQUIVALENT.
 1.2 ALL DRILLED AND EPOXYED REBAR PLACED IN CRACKED OR UNCRACKED CONCRETE SHALL BE THREADED RODS WITH SIMPSON SET-XP EPOXY OR EQUIVALENT.
 2. INSTALL ANCHORS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 3. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO THE EDGE OF CONCRETE. LOCATE ALL ANCHOR BOLTS IN ACCORDANCE WITH DRAWINGS

WOOD FRAMING NOTES:
 1. WOOD FRAMING SHALL COMPLY WITH THE SOUTHERN PINE INSPECTION BUREAU, OR SHALL CONFORM TO SPECIFICATIONS AS PUBLISHED BY THE WESTERN WOODS PRODUCTS ASSOCIATION.
 2. WOOD FRAMING MEMBERS NOMINAL 2X4 AND LARGER SHALL BE MINIMUM SOUTHERN PINE No. 2 OR EQUIVALENT.
 3. WOOD COLUMNS NOMINAL 6X6 AND LARGER SHALL BE MINIMUM SOUTHERN PINE No. 2 OR EQUIVALENT.
 4. ALL FRAMING MEMBERS (STUDS, RAFTERS, CEILING JOISTS, AND FLOOR JOISTS) ARE TO BE 16" ON CENTER UNLESS OTHERWISE NOTED.
 5. ALL THE LOAD BEARING & SHEAR WALLS WITH A FLOOR ABOVE SHALL BE FRAMED WITH A MINIMUM OF 2X6 STUDS AT 16" O.C. AND, SIMILARLY, ALL THE LOAD BEARING & SHEAR WALLS WITH ONLY A ROOF ABOVE SHALL BE FRAMED WITH A MINIMUM OF 2X4 STUDS AT 16" O.C. UNLESS NOTED OTHERWISE.
 6. ALL EXPOSED WOOD FRAMING AND FRAMING IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED FOR MOISTURE PROTECTION.
 7. PRE-FABRICATED TRUSSES
 7.1 FOR PRE-FABRICATED TRUSSES, FABRICATOR SHALL SUBMIT SHOP DRAWINGS SHOWING LAYOUT OF MEMBER, BRIDGING, BRACING, ERECTION DETAILS, TRUSS PENETRATIONS, AND DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER (TEXAS).
 7.2 TRUSS MANUFACTURER IS RESPONSIBLE FOR ALL TRUSS-TRUSS CONNECTIONS. ENGINEER IS RESPONSIBLE FOR DESIGN OF UPLIFT CONNECTIONS.
 8. ROOF DECKING
 8.1 ROOF DECK SHALL BE:
 (A) OSB (ORIENTED STRAND BOARD) 7/16" MIN. AND NAILING PATTERN SHOULD BE 4" O/C @ EDGE AND 6" O/C IN FIELD FOR ROOFS WITH ASPHALT SHINGLES.
 (B) APA RATED GRADED PLYWOOD 19/32" MIN FOR ROOFS WITH METAL STANDING SEAM PANELS.
 (C) APA RATED GRADED PLYWOOD 5/8" MIN. FOR ROOFS WITH CLAY TILES AND SCREW METAL PANELS.
 8.2 ALL DECKING END SHEETS SHOULD BE STAGGERED.
 8.3 ALL NAILS SHOULD BE 8d NAIL MIN.
 8.4 REFER TO MANUFACTURER RECOMMENDATIONS FOR FASTENER SIZES & SPACING.
 9. WALL SHEATHING
 9.1 SEE WINDSTORM COMPLIANT PLAN (WSCP) - UNLESS NOTED ON WSCP, ALL WALL SHEATHING IS ASSUMED TO BE 7/16" OSB FASTENED W/ 8d NAILS, 4" O.C. @ EDGES, 6" O.C. IN THE FIELD.
 10. HIGH WIND UPLIFT CONNECTORS
 10.1 ALL LOAD BEARING RAFTERS, STUDS, SHOULD BE STRAPPED/CLIPPED IN ACCORDANCE WITH WINDSTORM COMPLIANT PLAN.
 11. NAILING, UNLESS OTHERWISE NOTED, SHALL BE PER THE 2018 IBC.
 12. NOTCHING AND BORING:
 12.1 NOTCHING SHOULD BE AVOIDED WHEN POSSIBLE, AND HOLES BORED IN BEAMS AND JOISTS CREATE THE SAME PROBLEMS AS NOTCHES. WHEN NECESSARY, THE HOLES SHOULD BE LOCATED IN AREAS WITH THE LEAST STRESS CONCENTRATION, GENERALLY ALONG THE NEUTRAL AXIS OF THE JOIST. LIMITATIONS ON THE ALLOWABLE CUTTING AND NOTCHING OF WOOD FLOOR JOISTS ARE MEANT TO RETAIN STRUCTURAL OR FUNCTIONAL INTEGRITY.
 12.2 SAWN LUMBER: NOTCHES IN SOLID LUMBER JOISTS, RAFTERS AND BEAMS SHALL NOT EXCEED ONE-SIXTH OF THE DEPTH OF THE MEMBER, SHALL NOT BE LONGER THAN ONE-THIRD OF THE DEPTH OF THE MEMBER AND SHALL NOT BE LOCATED IN THE MIDDLE ONE-THIRD OF THE SPAN. NOTCHES AT THE ENDS OF THE MEMBER SHALL NOT EXCEED ONE-FOURTH THE DEPTH OF THE MEMBER. THE TENSION SIDE OF MEMBERS 4 INCHES OR GREATER IN NOMINAL THICKNESS SHALL NOT BE NOTCHED EXCEPT AT THE ENDS OF THE MEMBERS. THE DIAMETER OF HOLES BORED OR CUT INTO MEMBERS SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE MEMBER. HOLES SHALL NOT BE CLOSER THAN 2 INCHES TO THE TOP OR BOTTOM OF THE MEMBER, OR TO ANY OTHER HOLE LOCATED IN THE MEMBER. WHERE THE MEMBER IS ALSO NOTCHED, THE HOLE SHALL NOT BE CLOSER THAN 2 INCHES TO THE NOTCH.
 12.2.1 NOTCHES ON CANTILEVERED PORTIONS OF RAFTERS PERMITTED PROVIDED THE DIMENSION OF THE REMAINING PORTION OF THE RAFTER IS NOT LESS THAN 3 1/2 INCHES AND THE LENGTH OF THE CANTILEVER DOES NOT EXCEED 24 INCHES.
 12.3 ENGINEERED WOOD PRODUCTS: CUTS, NOTCHES AND HOLES BORED IN TRUSSES, LAMINATED VENEER LUMBER, GLUE-LAMINATED MEMBERS OR I-JOISTS ARE NOT PERMITTED UNLESS THE EFFECTS OF SUCH PENETRATIONS ARE SPECIFICALLY CONSIDERED IN THE DESIGN OF THE MEMBER.
 12.4 DRILLING AND NOTCHING - STUDS: ANY STUD IN AN EXTERIOR WALL OR BEARING PARTITION MAY BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTH. STUDS IN NONBEARING PARTITIONS MAY BE NOTCHED TO A DEPTH NOT TO EXCEED 40 PERCENT OF A SINGLE STUD WIDTH. ANY STUD MAY BE BORED OR DRILLED, PROVIDED THAT THE DIAMETER OF THE RESULTING HOLE IS NO GREATER THAN 40 PERCENT OF THE STUD WIDTH, THE EDGE OF THE HOLE IS NO CLOSER THAN 5/8 INCH (15.9 MM) TO THE EDGE OF THE STUD, AND THE HOLE IS NOT LOCATED IN THE SAME SECTION AS A CUT OR NOTCH.
 12.4.1 A STUD MAY BE BORED TO A DIAMETER NOT EXCEEDING 60 PERCENT OF ITS WIDTH, PROVIDED THAT SUCH STUDS LOCATED IN EXTERIOR WALLS OR BEARING PARTITIONS ARE DOUBLED AND THAT NOT MORE THAN TWO SUCCESSIVE STUDS ARE BORED.
 12.4.2 APPROVED STUD SHOES MAY BE USED WHEN INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
 12.5 DRILLING AND NOTCHING OF TOP PLATE. WHEN PIPING OR DUCTWORK IS PLACED IN OR PARTLY IN AN EXTERIOR WALL OR INTERIOR LOAD-BEARING WALL, NECESSITATING CUTTING, DRILLING OR NOTCHING OF THE TOP PLATE BY MORE THAN 50 PERCENT OF ITS WIDTH, A GALVANIZED METAL TIE OF NOT LESS THAN 0.054 INCHES THICK (16GA) AND 1 1/2 INCHES WIDE SHALL BE FASTENED TO EACH PLATE ACROSS AND TO EACH SIDE OF THE OPENING WITH NOT LESS THAN EIGHT 16D NAILS AT EACH SIDE OR EQUIVALENT.
 12.5.1 WHEN THE ENTIRE SIDE OF THE WALL WITH THE NOTCH OR CUT IS COVERED BY WOOD STRUCTURAL PANEL SHEATHING.

CONCRETE FOUNDATION NOTES
 1. STRIP AND REMOVE ALL SURFACE ORGANIC, TOPSOIL AND UNSUITABLE MATERIAL FROM UNDER ALL BUILDING AND PAVING AREAS AS REQUIRED.
 2. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI STANDARD "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318 LATEST EDITION.
 3. CONCRETE MIXING, DELIVERY, PLACEMENT, FINISHING, AND TESTING TO BE IN ACCORDANCE WITH ACI-318
 4. CONCRETE TO BE READY-MIX FROM A MIX DESIGNED TO MEET SPECIFIED STRENGTH REQUIREMENTS. WATER IS NOT TO BE ADDED TO CONCRETE IF MIXTURE WILL EXCEED THE A WATER/CEMENT RATIO OF 0.48.
 5. ALL CONCRETE SHALL HAVE A 3000 PSI COMPRESSIVE STRENGTH IN 28 DAYS AND SHALL HAVE A MAXIMUM AGGREGATE SIZE OF 3/4".
 6. EXCAVATION OF BEAMS SHOULD BE CLEAN AND SQUARE
 7. ALL REINFORCING BARS SHALL BE ASTM A-615, GRADE 60.
 8. ALL REINFORCING STEEL SHALL BE LAPPED 50 BAR DIAMETERS UNLESS OTHERWISE NOTED.
 9. ALL BENDING OF REINFORCING STEEL SHALL BE "COLD BENT".
 10. ALL STEEL CONCRETE EMBEDMENTS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
 11. DESIGNS IN ACCORDANCE WITH ULTIMATE STRENGTH PROCEDURES AND ACI 318 LATEST EDITION.
 12. ALL REINFORCING BARS SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS, CHAIRS, OR STIRRUPS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS.
 13. ALL BENDS AND HOOKS SHALL BE AS DETAILED IN THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI 315 LATEST EDITION.
 14. CLEAR COVER FOR ALL BARS SHALL BE AS FOLLOWS
 14.1. FOR BARS IN FOOTINGS AND PIERS OR ANY OTHER BARS THAT ARE IN POURED IN DIRECT CONTACT WITH THE GROUND: 3 INCHES
 14.2. FOR BEAMS AND MATS OR ANY CONCRETE THAT IS POURED IN CONTACT WITH FORMS OR WEATHER: 2 INCHES FOR #5 AND LARGER, 1.5 INCHES FOR SMALLER
 15. THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE ACTUAL CONDITIONS AT THE SITE AND THAT ALL BEAMS AND DRILLED SHAFTS ARE FOUNDED ON A SUITABLE LOAD BEARING SOIL CAPABLE OF MEETING THE ASSUMED CAPACITIES LISTED BELOW.
 16. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES THAT PENETRATE THE SLAB. NO UTILITY CONDUIT SHOULD PENETRATE THE SLAB AT A GRADE BEAM.
 17. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BY MEASUREMENTS AT THE JOB SITE AND SHALL TAKE ANY AND ALL OTHER MEASUREMENTS NECESSARY TO VERIFY THE DRAWINGS AND TO PERFORM HIS WORK PROPERLY.
 18. ALL SPECIFIED CONCRETE GRADE BEAMS DEPTHS SHALL PENETRATE SOIL 18"
 19. FLOATING OR TROWEL FINISH

SOIL PROPERTIES
 1. ALL BUILT UP PADS SHOULD CONSIST OF FILL WITH A LIQUID LIMIT OF LESS THAN 35 AND A PLASTICITY INDEX BETWEEN 8 AND 15. THE FILL SHALL CONTAIN NO ORGANIC OR PERISHABLE MATERIAL, AND NO STONES GREATER THAN 2".
 2. FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 6" THICKNESS AFTER COMPACTION. FILL SHALL BE DUMPED SO AS TO SECURE EVEN DISTRIBUTION AND TO AVOID FORMATION OF DISSIMILAR MATERIAL LAYERS.
 3. PAD SHALL BE COMPACTED TO A 95% OR GREATER STANDARD PROCTOR.
 4. THE FOUNDATION WAS DESIGNED WITH FOLLOWING ASSUMED SOIL CAPACITIES
 4.1. 1500 PSF - BEARING CAPACITY OF SUBGRADE
 5. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL FORMS
 6. SUBGRADE CONDITIONS AT THE SITE ARE ASSUMED. IT IS HIGHLY RECOMMENDED THAT A SOILS REPORT BE PROVIDED FOR AN ACCURATE DESCRIPTION OF THE CURRENT SITE CONDITIONS.

ANCHOR BOLT NOTES
 1. ALL ANCHOR BOLTS SHOULD MEET ASTM A36 AND BE HOT DIPPED GALVANIZED.
 2. BOTTOM PLATE OF THE WOOD SHEAR/BEARING WALLS TO BE CONNECTED TO THE CONCRETE WITH 5/8" DIA. ANCHOR BOLTS AT A MAXIMUM OF 32" O.C., WITH MINIMUM 7" EMBEDMENT INTO THE CONCRETE.

FOUNDATION FASTENERS
 1. ALL BOLTS, NAILS, OR ANY OTHER FASTENERS USED TO CONSTRUCT THE FOUNDATION SHOULD RECEIVE CORROSION RESISTANCE TREATMENT IN ACCORDANCE WITH THE TEXAS REVISIONS IBC 06 FOR OPEN AREAS.

WIND BOURNE DEBRIS PROTECTION	
V > 140	GLAZING IN BUILDINGS SHALL BE IMPACT RESISTANT OR PROTECTED WITH AN IMPACT-RESISTANT COVERING MEETING THE REQUIREMENTS OF AN APPROVED IMPACT-RESISTANT STANDARD OR ASTM E1996 AND ASTM E1886 REFERENCED HEREIN AS FOLLOWS: 1. GLAZED OPENINGS LOCATED WITHIN 30 FEET (9144 MM) OF GRADE SHALL MEET THE REQUIREMENTS OF THE LARGE MISSILE TEST OF ASTM E1996. 2. GLAZED OPENINGS LOCATED MORE THAN 30 FEET (9144 MM) ABOVE GRADE SHALL MEET THE PROVISIONS OF THE SMALL MISSILE TEST OF ASTM E1996. EXCEPTIONS: 1. WOOD STRUCTURAL PANELS WITH A MINIMUM THICKNESS OF 7/16 INCH (11.1 MM) AND MAXIMUM PANEL SPAN OF 8 FEET (2438 MM) SHALL BE PERMITTED FOR OPENING PROTECTION IN BUILDINGS WITH A MEAN ROOF HEIGHT OF 33 FEET (10 058 MM) OR LESS THAT ARE CLASSIFIED AS A GROUP R-3 OR R-4 OCCUPANCY PANELS SHALL BE PRECUT SO THAT THEY SHALL BE ATTACHED TO THE FRAMING SURROUNDING THE OPENING CONTAINING THE PRODUCT WITH THE GLAZED OPENING PANELS SHALL BE PREDRILLED AS REQUIRED FOR THE ANCHORAGE METHOD AND SHALL BE SECURED WITH THE ATTACHMENT HARDWARE PROVIDED. ATTACHMENTS SHALL BE DESIGNED TO RESIST THE COMPONENTS AND CLADDING LOADS DETERMINED IN ACCORDANCE WITH THE PROVISIONS OF ASCE 7, WITH CORROSION-RESISTANT ATTACHMENT HARDWARE PROVIDED AND ANCHORS PERMANENTLY INSTALLED ON THE BUILDING. ATTACHMENT IN ACCORDANCE WITH TABLE 1609.2 WITH CORROSION-RESISTANT ATTACHMENT HARDWARE PROVIDED AND ANCHORS PERMANENTLY INSTALLED ON THE BUILDING IS PERMITTED FOR BUILDINGS WITH A MEAN ROOF HEIGHT OF 45 FEET (13 716 MM) OR LESS WHERE VASD DETERMINED IN ACCORDANCE WITH SECTION 1609.3.1 DOES NOT EXCEED 140 MPH (63 M/S) 2. GLAZING IN RISK CATEGORY I BUILDINGS, INCLUDING GREENHOUSES THAT ARE OCCUPIED FOR GROWING PLANTS ON A PRODUCTION OR RESEARCH BASIS, WITHOUT PUBLIC ACCESS SHALL BE PERMITTED TO BE UNPROTECTED. GLAZING IN RISK CATEGORY II, ILL OR IV BUILDINGS LOCATED OVER 60 FEET (18 288 MM) ABOVE THE GROUND AND OVER 30 FEET (9144 MM) ABOVE AGGREGATE SURFACE ROOFS LOCATED WITHIN 1,500 FEET (458 M) OF THE BUILDING SHALL BE PERMITTED TO BE UNPROTECTED.
CORROSION RESISTANCE FOR METAL CONNECTORS AND FASTENERS	
145 < V < 160	FOR OPEN AREA: METAL CONNECTORS & FASTENERS IN OPEN AREAS SHALL BE EITHER STAINLESS STEEL & ASTM A167; HOT-DIP GALVANIZED AFTER FABRICATION AND MEET ASTM A123 OR ASTM A153; OR HOT-DIP GALVANIZED PRIOR TO FABRICATION AND MEET ASTM A653. FOR VENTED OR ENCLOSED AREA: METAL CONNECTORS AND FASTENERS LOCATED IN VENTED OR ENCLOSED AREAS SHALL BE HOT-DIP GALVANIZED OR ELECTROGALVANIZED IN ACCORDANCE WITH ASTM A641; MECHANICALLY DEPOSITED ZINC COATINGS IN ACCORDANCE WITH ASTM B695; OR ELECTRODEPOSITED ZINC COATINGS IN ACCORDANCE WITH ASTM B633.
V < 145	FOR OPEN AREAS: METAL CONNECTORS & FASTENERS IN OPEN AREAS SHALL BE EITHER STAINLESS STEEL AND ASTM A167; HOT-DIP GALVANIZED AFTER FABRICATION AND MEET ASTM A123 OR ASTM A153; HOT-DIP GALVANIZED OR GALVANNEALED PRIOR TO FABRICATION AND MEET ASTM A653; HOT DIP GALVANIZE OR ELECTROGALVANIZED IN ACCORDANCE WITH ASTM A641; MECHANICALLY DEPOSIT ZINC COATINGS IN ACCORDANCE WITH ASTM B695; OR ELECTRODEPOSITED ZINC COATINGS IN ACCORDANCE WITH ASTM B633. FOR VENTED OR ENCLOSED AREAS: METAL CONNECTORS AND FASTENERS LOCATED IN VENTED OR ENCLOSED AREAS SHALL BE EPOXY-COATED IN ACCORDANCE WITH ASTM A899.



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BEE COUNTY TAX OFFICE
 ADDITIONS AND RENOVATIONS
 411 E. HOUSTON ST.
 BEEVILLE, TX. 78102
 STRUCTURAL NOTES

PROJECT NAME:
 BEE COUNTY
 105 W. CORPUS CHRISTI ST.
 BEEVILLE, TX. 78102
 CUSTOMER NAME:

DESIGN INFO:
 PROJECT FILE NO.:
 BEE COUNTY TAX
 DRAWN BY: RC
 CHECKED BY: JR
 DESIGNED BY: DAT
 JOB NO.: 10-100208

PRINTED

DATE	REMARKS
00/00/00	PRELIMINARY
00/00/00	PERMIT
00/00/00	CONSTRUCTION

REVISIONS

NO.	REMARKS
00/00/00	REVISION 1
00/00/00	REVISION 2
00/00/00	REVISION 3
00/00/00	REVISION 4

PAGE NO:
SO.1

TABLE R602.3(1) FASTENING SCHEDULE (IRC 2018)			
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENERS A, B, C	SPACING AND LOCATION
ROOF			
1	BLOCKING BETWEEN CEILING JOISTS OR RAFTERS TO TOP PLATE	4-8d BOX (2 1/2" x 0.113") OR 3-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	TOE NAIL
2	CEILING JOIST TO TOP PLATE	4-8d BOX (2 1/2" x 0.113") OR 3-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	PER JOIST, TOE NAIL
3	CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (SEE SECTION R802.5.2 AND TABLE R802.5.2)	4-10d BOX (3" x 0.128"); OR 3-16d COMMON (3 1/2" x 0.162"); OR 4-3" x 0.131" NAILS	FACE NAIL
4	CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER (HEEL JOINT) (SEE SECTION R802.5.2 AND TABLE R802.5.2)	TABLE R802.5.2	FACE NAIL
5	COLLAR TIE TO RAFTER, FACE NAIL OR 1 1/4" X 20 GA. RIDGE STRAP TO RAFTER	4-10d BOX (3" x 0.128"); OR 3-10d COMMON (3" x 0.148"); OR 4-3" x 0.131" NAILS	FACE NAIL EACH RAFTER
6	RAFTER OR ROOF TRUSS TO PLATE	3-16d BOX (3 1/2" x 0.135"); OR 3-10d COMMON (3" x 0.148"); OR 4-10d BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS
7	ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS OR ROOF RAFTERS TO MINIMUM 2" RIDGE BEAM	4-16d BOX (3 1/2" x 0.135"); OR 3-10d COMMON (3" x 0.148"); OR 4-10d BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS 3-16d BOX (3 1/2" x 0.135"); OR 2-16d COMMON (3 1/2" x 0.162"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	TOE NAIL END NAIL
WALL			
8	STUD TO STUD (NOT TO BRACED WALL PANELS)	16d COMMON (3 1/2" x 0.162") 10d BOX (3" x 0.128"); OR 3" x 0.131" NAILS	24" O.C. FACE NAIL 16" O.C. FACE NAIL
9	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d BOX (3 1/2" x 0.135"); OR 3" x 0.131" NAILS 16d COMMON (3 1/2" x 0.162")	12" O.C. FACE NAIL 16" FACE NAIL
10	BUILT-UP HEADER (2" TO 2" HEADER WITH 1/2" SPACER)	16d COMMON (3 1/2" x 0.162") 16d BOX (3 1/2" x 0.135")	16" O.C. EACH EDGE FACE NAIL 12" O.C. EACH EDGE FACE NAIL
11	CONTINUOUS HEADER TO STUD	5-8d BOX (2 1/2" x 0.113"); OR 4-8d COMMON (2 1/2" x 0.131"); OR 4-10d BOX (3" x 0.128")	TOE NAIL
12	TOP PLATE TO TOP PLATE	16d COMMON (3 1/2" x 0.162") 10d BOX (3" x 0.128"); OR 3" x 0.131" NAILS	16" O.C. FACE NAIL 12" O.C. FACE NAIL
13	DOUBLE TOP PLATE SPLICE	8-16d COMMON (3 1/2" x 0.162"); OR 12-16d BOX (3 1/2" x 0.135"); OR 12-10d BOX (3" x 0.128"); OR 12-3" x 0.131" NAILS	FACE NAIL ON EACH SIDE OF END JOINT (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
14	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d COMMON (3 1/2" x 0.162") 16d BOX (3 1/2" x 0.135"); OR 3" x 0.131" NAILS	16" O.C. FACE NAIL 12" O.C. FACE NAIL
15	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (AT BRACED WALL PANEL)	3-16d BOX (3 1/2" x 0.135"); OR 2-16d COMMON (3 1/2" x 0.162"); OR 4-3" x 0.131" NAILS	3 EACH 16" o.c. FACE NAIL 2 EACH 16" o.c. FACE NAIL 4 EACH 16" o.c. FACE NAIL
16	TOP OR BOTTOM PLATE TO STUD	4-8d BOX (2 1/2" x 0.113"); OR 3-16d BOX (3 1/2" x 0.135"); OR 4-8d COMMON (2 1/2" x 0.131"); OR 4-10d BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS 3-16d BOX (3 1/2" x 0.135"); OR 2-16d COMMON (3 1/2" x 0.162"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	TOE NAIL END NAIL
17	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10d BOX (3" x 0.128"); OR 2-16d COMMON (3 1/2" x 0.162"); OR 3-3" x 0.131" NAILS	FACE NAIL
18	1" BRACE TO EACH STUD AND PLATE	3-8d BOX (2 1/2" x 0.113"); OR 2-8d COMMON (2 1/2" x 0.131"); OR 2-10d BOX (3" x 0.128"); OR 2 STAPLES 1 3/4"	FACE NAIL
19	1" x 6" SHEATHING TO EACH BEARING	3-8d BOX (2 1/2" x 0.113"); OR 2-8d COMMON (2 1/2" x 0.131"); OR 2-10d BOX (3" x 0.128"); OR 2 STAPLES, 1" CROWN, 16 GA., 1 3/4" LONG	FACE NAIL
20	1" x 8" AND WIDER SHEATHING TO EACH BEARING	3-8d BOX (2 1/2" x 0.113"); OR 3-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR 3 STAPLES, 1" CROWN, 16 GA., 1 3/4" LONG WIDER THAN 1" x 8" 4-8d BOX (2 1/2" x 0.113"); OR 3-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR 4 STAPLES, 1" CROWN, 16 GA., 1 3/4" LONG	FACE NAIL

TABLE R602.3(1) FASTENING SCHEDULE (IRC 2018)				
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENERS A, B, C	SPACING AND LOCATION	
FLOOR				
21	JOIST TO SILL, TOP PLATE OR GIRDER	4-8d BOX (2 1/2" x 0.113"); OR 3-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	TOE NAIL	
22	RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO)	8d BOX (2 1/2" x 0.113") 8d COMMON (2 1/2" x 0.131"); OR 10d BOX (3" x 0.128"); OR 3" x 0.131" NAILS	4" O.C. TOE NAIL 6" O.C. TOE NAIL	
23	1" x 6" SUBFLOOR OR LESS TO EACH JOIST	3-8d BOX (2 1/2" x 0.113"); OR 2-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR 2 STAPLES, 1" CROWN, 16 GA., 1 3/4" LONG	FACE NAIL	
FLOOR				
24	2" SUBFLOOR TO JOIST OR GRIDER	3-16d BOX (3 1/2" x 0.135"); OR 2-16d COMMON (3 1/2" x 0.162")	BLIND AND FACE NAIL	
25	2" PLANK (PLANK & BEAM- FLOOR & ROOF)	3-16d BOX (3 1/2" x 0.135"); OR 2-16d COMMON (3 1/2" x 0.162")	AT EACH BEARING, FACE NAILS	
26	BAND OR RIM JOIST TO JOIST	3-16d COMMON (3 1/2" x 0.162") 4-10 BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS; OR 4-3" x 14 GA. STAPLES, 7/16" CROWN	END NAIL	
27	BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS	20d COMMON (4" x 0.192"); OR 10d BOX (3" x 0.128"); OR 3" x 0.131" NAILS AND: 2-20d COMMON (4" x 0.192"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	NAIL EACH LAYER AS FOLLOWS: 32" O.C. AT TOP AND BOTTOM AND STAGGERED. 24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES FACE NAIL AT ENDS AND AT EACH SPLICE	
28	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	4-16d BOX (3 1/2" x 0.135"); OR 3-16d COMMON (3 1/2" x 0.162"); OR 4-10d BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS	AT EACH JOIST OR RAFTER, FACE NAIL	
29	BRIDGING OR BLOCKING TO JOIST	2-10 BOX (3" x 0.128"); OR 2-8d COMMON (2 1/2" x 0.131"); OR 2-3" x 0.131" NAILS	EACH END, TOE NAIL	
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENERS A, B, C	SPACING OF FASTENERS	
			EDGES (INCHES) H	INTERMEDIATE SUPPORTS, E (INCHES)
WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING				
37	3/4" AND LESS	6d DEFORMED (2" x 0.120") NAIL; OR 8d COMMON (2 1/2" x 0.131") NAIL	6	12
38	7/8" —1"	8d COMMON (2 1/2" x 0.131") NAIL; OR 8d DEFORMED (2 1/2" x 0.120") NAIL	6	12
39	1 1/8" —1 1/4"	10d COMMON (3" x 0.148") NAIL; OR 8d DEFORMED (2 1/2" x 0.120") NAIL	6	12
<p>FOR SI: 1 INCH = 25.4 MM, 1 FOOT = 304.8 MM, 1 MILE PER HOUR = 0.447 M/S; 1 KSI = 6,895 MPa.</p> <p>A. NAILS ARE SMOOTH—COMMON, BOX OF DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. NAILS USED FOR FRAMING AND SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERAGE BENDING YIELD STRENGTHS AS SHOWN: 80 KSI FOR SHANK DIAMETER OF 0.192 INCH (20d COMMON NAIL), 90 KSI FOR SHANK DIAMETERS LARGER THAN 0.142 INCH BUT NOT LARGER THAN 0.177 INCH, AND 100 KSI FOR SHANK DIAMETERS OF 0.142 INCH OR LESS.</p> <p>B. STAPLES ARE 16 GAGE WIRE AND HAVE A MINIMUM 7/16" ON DIAMETER CROWN WIDTH.</p> <p>C. NAILS SHALL BE SPACED AT NOT MORE THAN 6 INCHES ON CENTER AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR GREATER.</p> <p>D. 4-FOOT BY 8-FOOT BY 9-FOOT PANELS SHALL BE APPLIED VERTICALLY.</p> <p>E. SPACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE R602.3(2).</p> <p>F. FOR WOOD STRUCTURAL PANEL ROOF SHEATHING ATTACHED TO GABLE END ROOF FRAMING AND TO INTERMEDIATE SUPPORT WITHIN 48 INCHES OF ROOF EDGES AND RIDGES, NAILS SHALL BE SPACED AT 6 INCHES ON CENTER WHERE THE ULTIMATE DESIGN WIND SPEED IS LESS THAN 130 MPH AND SHALL BE SPACED 4 INCHES ON CENTER WHERE THE ULTIMATE DESIGN WIND SPEED IS 130 MPH OR GREATER BUT LESS THAN 140 MPH.</p> <p>G. GYPSUM SHEATHING SHALL CONFORM TO ASTM C1396 AND SHALL BE INSTALLED IN ACCORDANCE WITH GA 253. FIBERBOARD SHEATHING SHALL CONFORM TO ASTM C208.</p> <p>H. SPACING OF FASTENERS ON FLOOR SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING AND AT FLOOR PERIMETERS ONLY. SPACING OF FASTENERS ON ROOF SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING. BLOCKING OF ROOF OR FLOOR SHEATHING PANEL EDGES PERPENDICULAR TO THE FRAMING MEMBERS NEED NOT BE PROVIDED EXCEPT AS REQUIRED BY OTHER PROVISIONS OF THIS CODE. FLOOR PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLID BLOCKING.</p> <p>I. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE, PROVIDE TWO TOE NAILS ON ONE SIDE OF THE RAFTER AND TOE NAILS FROM THE CEILING JOIST TO TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE. THE TOE NAIL ON THE OPPOSITE SIDE OF THE RAFTER SHALL NOT BE REQUIRED.</p> <p>J. RSRS-01 IS A ROOF SHEATHING RING SHANK NAIL MEETING THE SPECIFICATIONS IN ASTM F1667.</p>				
CUSTOM FASTENING SCHEDULE				
1	BUILT-UP GIRDERS AND BEAMS, 1 1/2-INCH LUMBER LAYERS	8d COMMON (2 1/2" x 0.134")	16" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES	



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BEE COUNTY
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 BEEVILLE, TX. 78102

CUSTOMER NAME:

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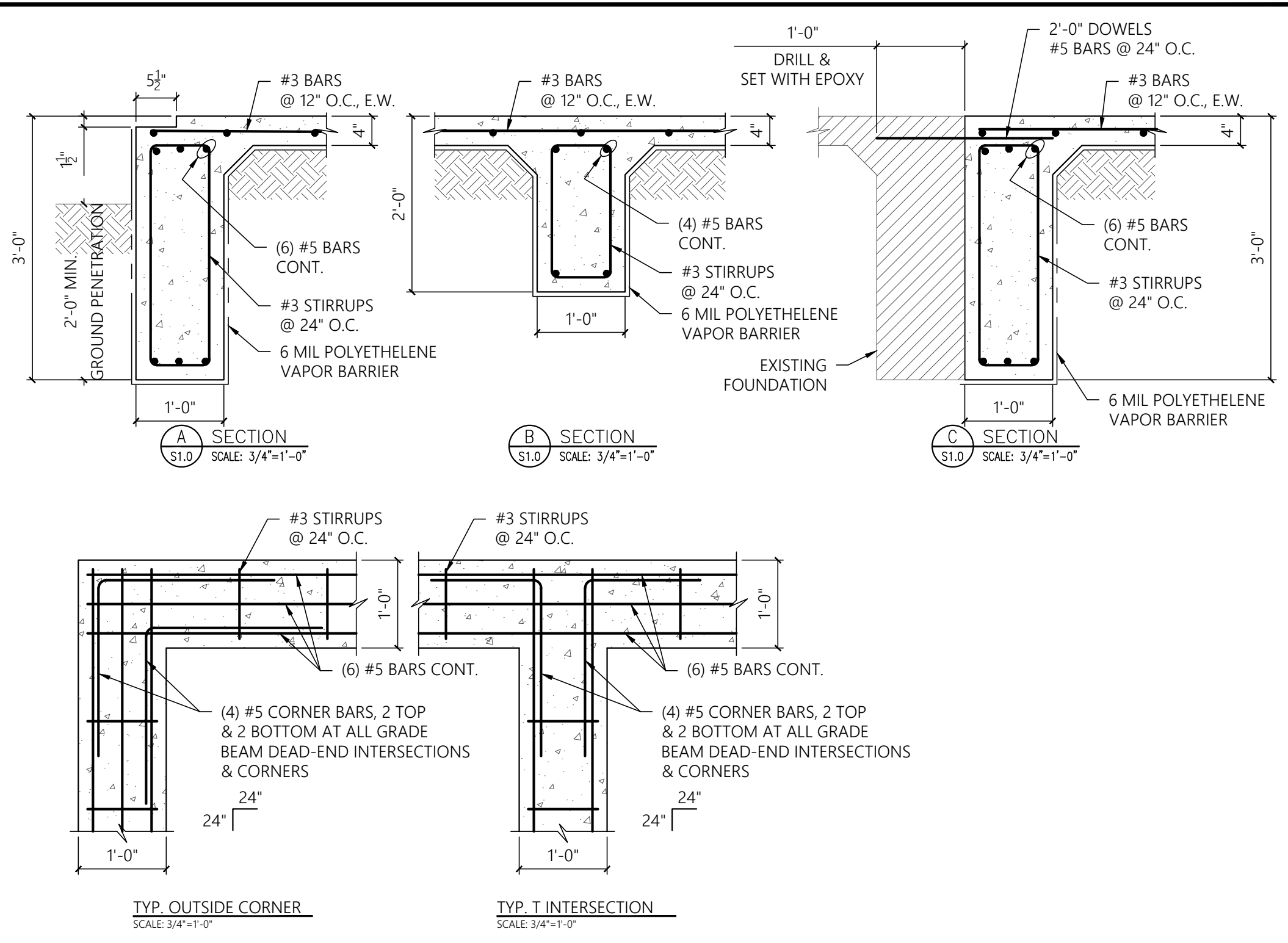
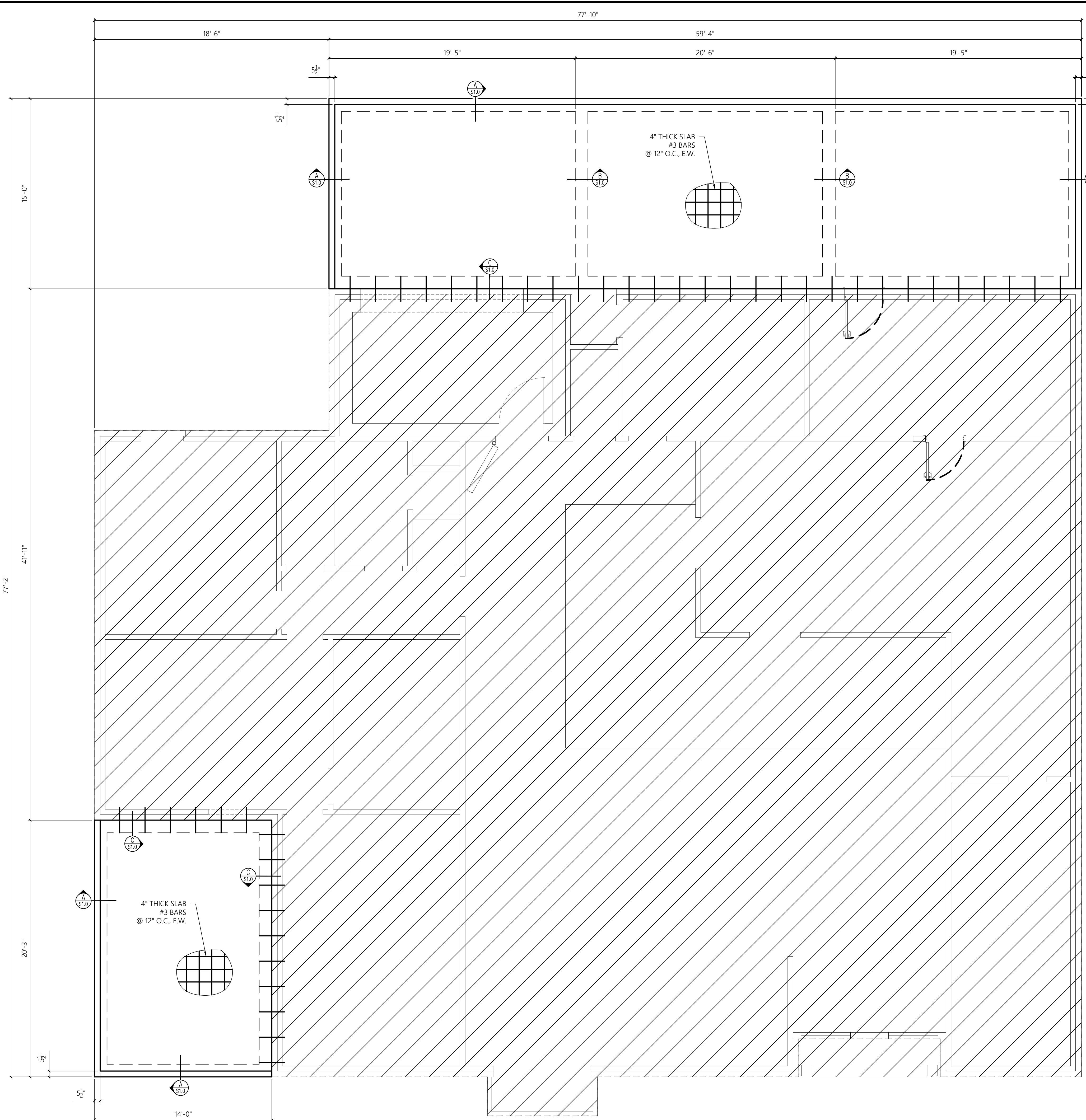
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A
A2.0 FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

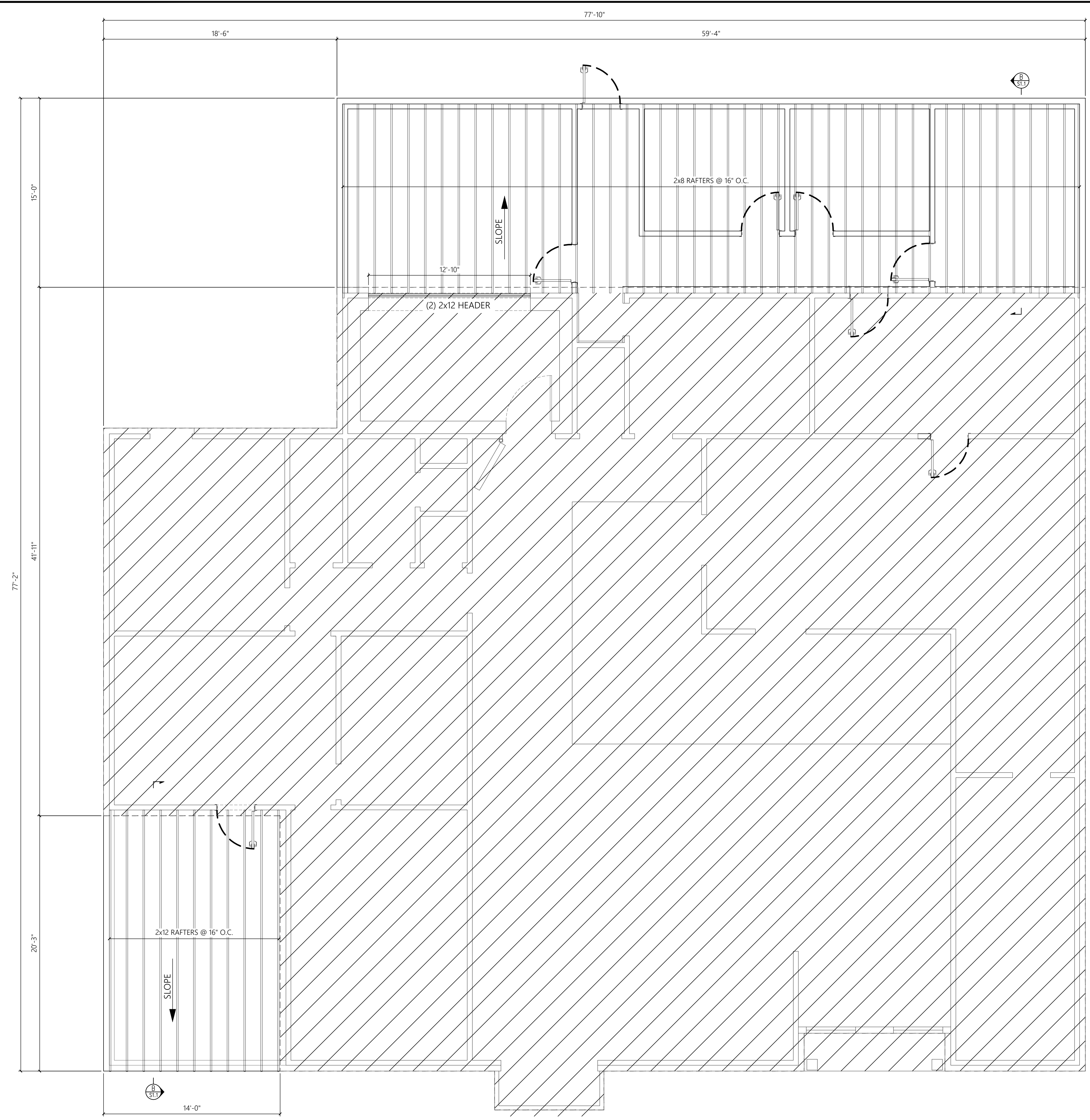


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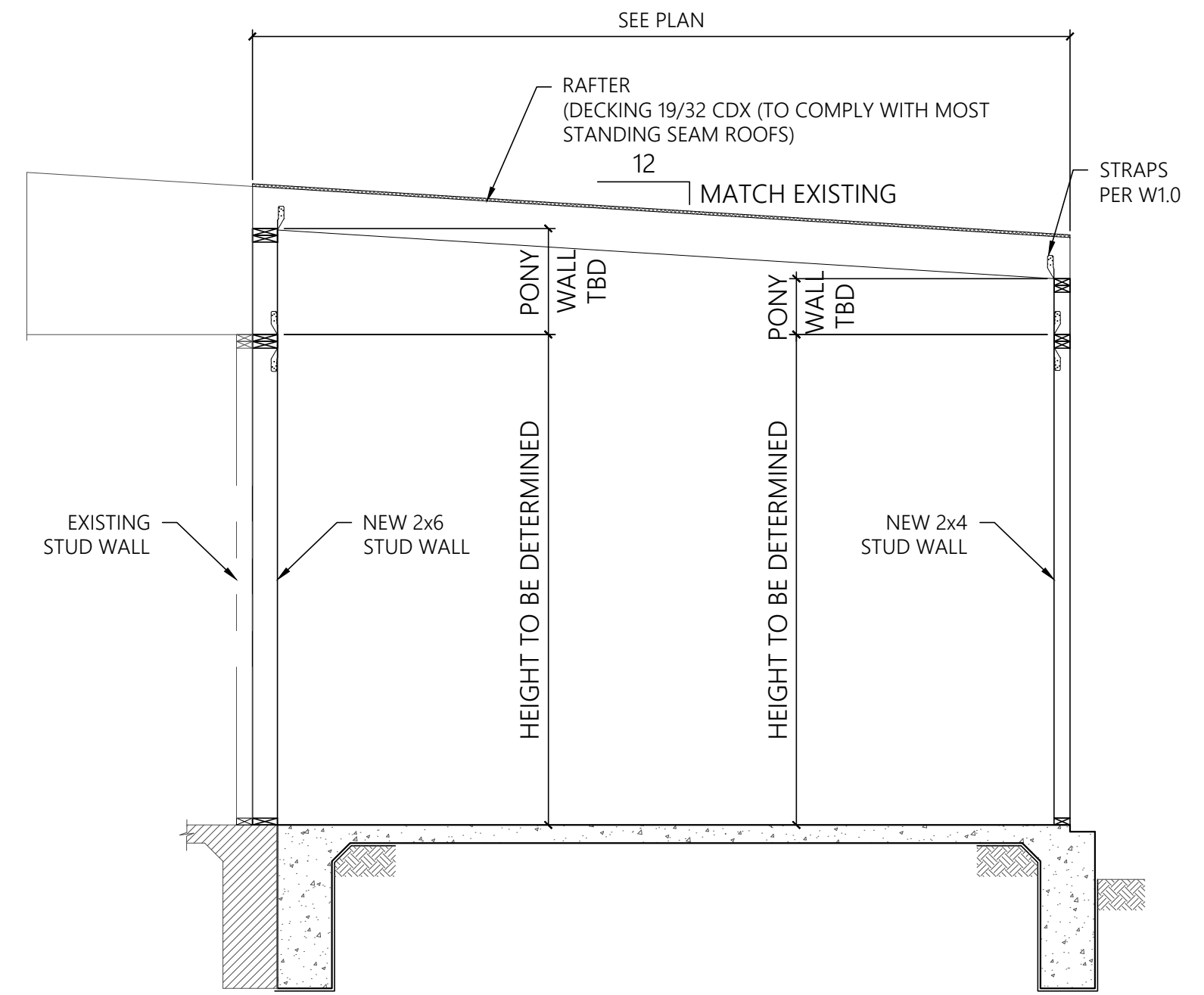
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A
S1.1
SCALE: 1/4" = 1'-0"
ROOF FRAMING PLAN



B
S1.1
SCALE: 1/4" = 1'-0"
TYPICAL SECTION



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ROOF FRAMING PLAN

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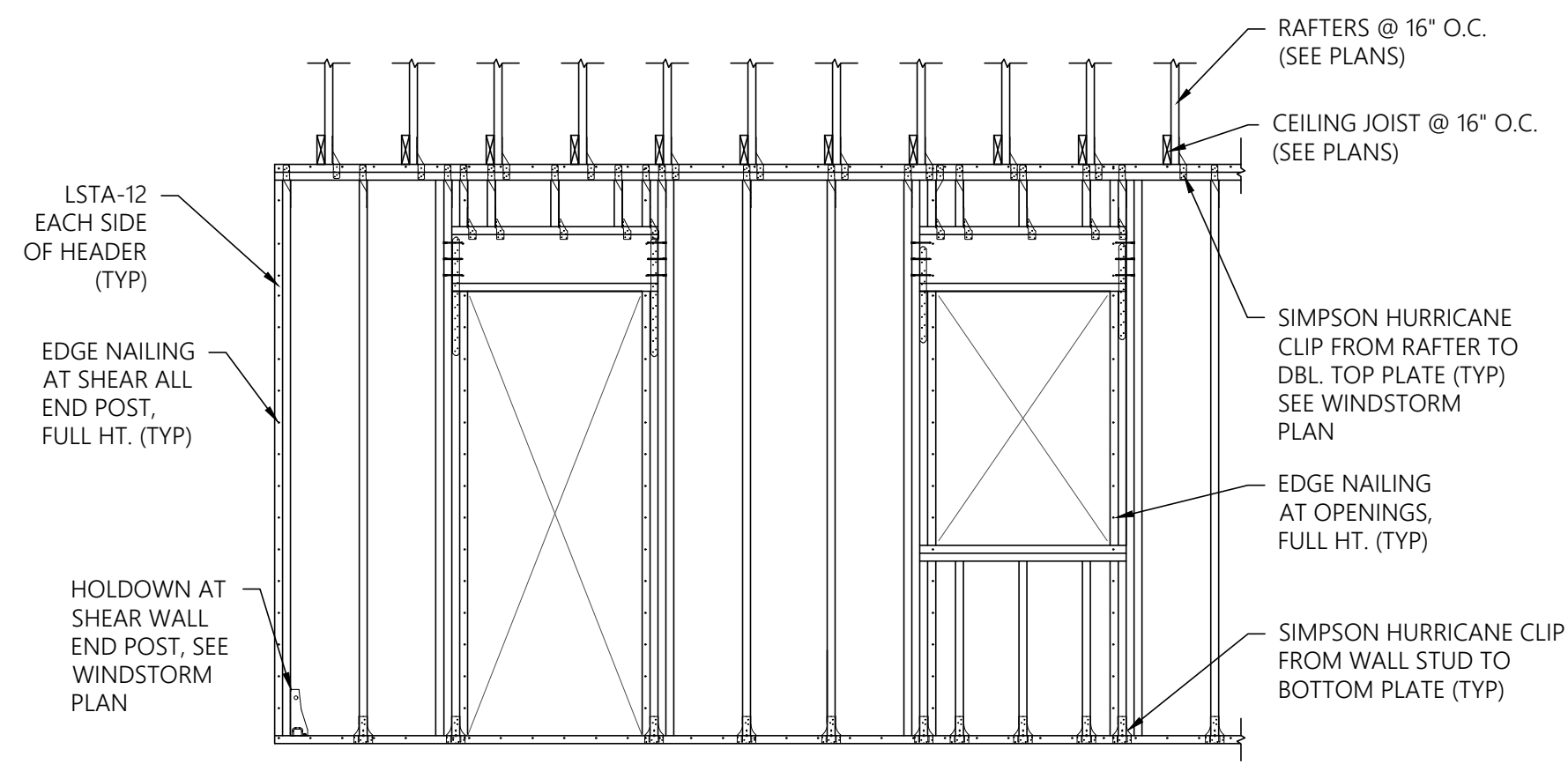
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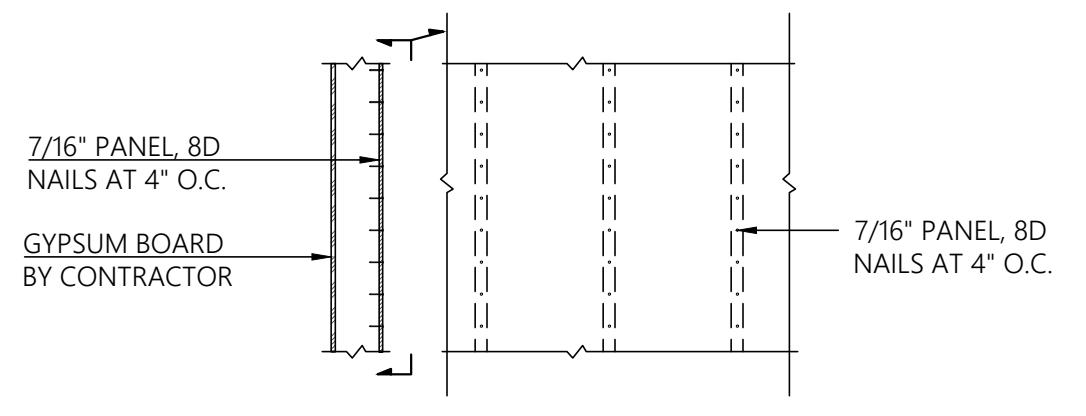
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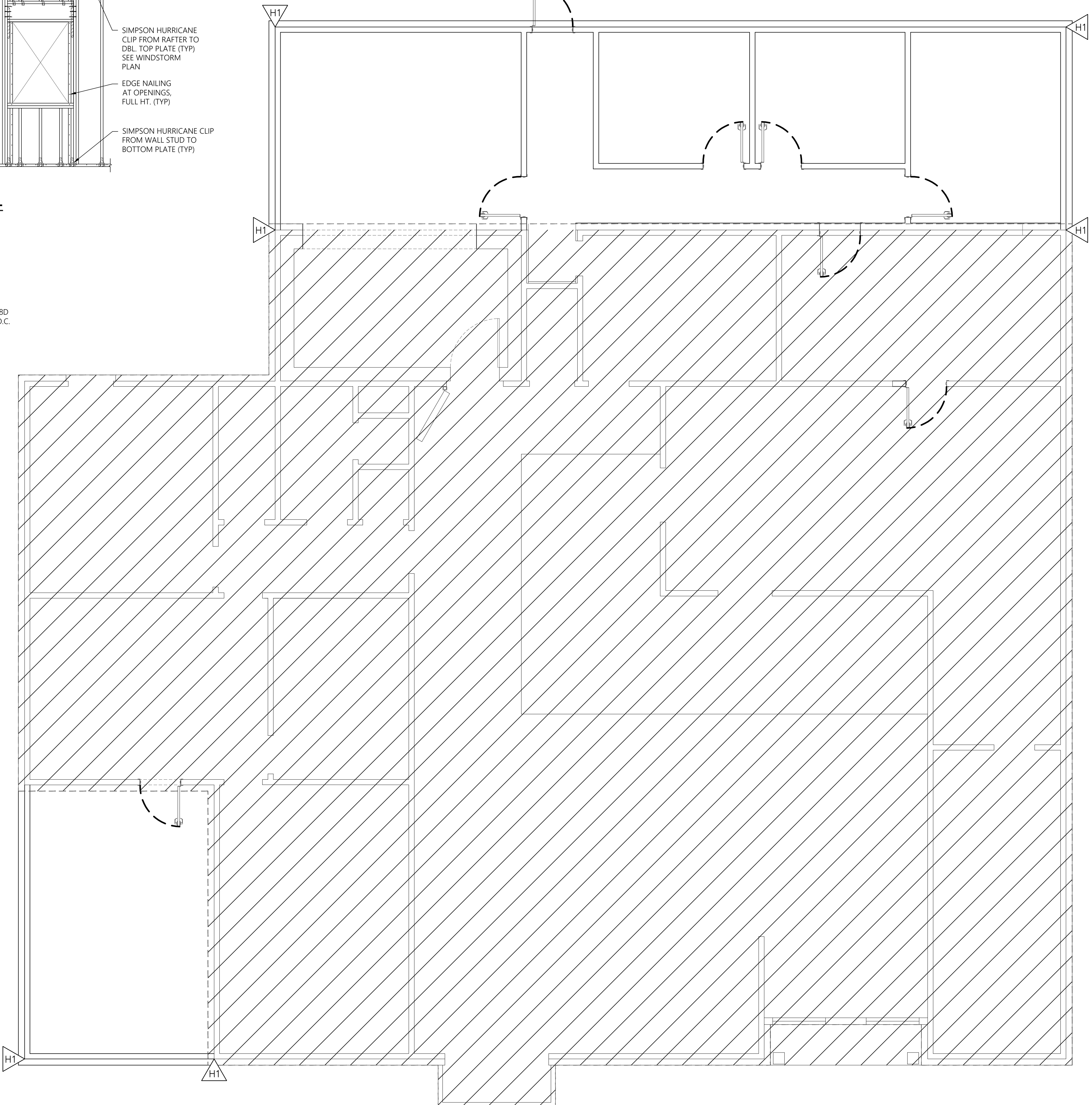
WINDSTORM NOTES SCHEDULE			
129 MPH (EXPOSURE "C"); BUILDING CATEGORY-II, ENCLOSED, IBC 18.			
SQUARE FOOTAGE: 1180			
MEAN ROOF HEIGHT: 9'-0"			
ROOF DECKING: REFER GENERAL NOTES			
CROSS SECTION SPECIFICATIONS			
C1	EVERY RAFTER TO DBL. TOP PLATE CONNECTION	708.77	H8
C2	DBL. TOP PLATE TO EVERY EXTERIOR WALL STUD CONNECTION	708.77	H8
C3	EVERY EXTERIOR WALL STUD TO BOTTOM PLATE	628.77	SP1
HOLD-DOWNS SPECIFICATIONS			
H1	HTTS: 26-16D SINKERS		
WALL SHEATHING SPECIFICATIONS			
W1	7/16" OSB (EXTERIOR), 8D NAILS @ 4" O.C.		
DESIGN PRESSURE RATING			
SIZE	DESCRIPTION	PSF OR GREATER	
3070	DOOR	-24.67	
NET DESIGN PRESSURE (PSF)			
ROOF			
ZONE 1 (FIELD)		-19.92	
ZONE 2 (EDGES)		-43.89	
ZONE 3 (CORNERS)		-71.56	
WALLS			
ZONE 4 (FIELD)		-21.56	
ZONE 5 (CORNERS)		-26.56	



(B) TYPICAL FRAMING DETAIL
SCALE: 3/8" = 1'-0"



(C) WALL SHEATHING DETAIL
SCALE: 1/2" = 1'-0"



(A) WINDSTORM PLAN
SCALE: 1/4" = 1'-0"

<p>(C1)</p> <p>H8 (LOW EAVE DTP TO RAFTER) (5) 0.148 X 1 1/2 [RAFTER] (5) 0.148 X 1 1/2 [PLATE]</p>	<p>(C1)</p> <p>H8 (HIGH EAVE DTP TO RAFTER) (5) 0.148 X 1 1/2 [RAFTER] (5) 0.148 X 1 1/2 [PLATE]</p>
<p>(C2)</p> <p>H8 (DTP TO STUD) (5) 0.148 X 1 1/2 [PLATE] (5) 0.148 X 1 1/2 [STUD]</p>	<p>(C2)</p> <p>H8 (DTP TO PONY STUD (T&B)) (5) 0.148 X 1 1/2 [PLATE] (5) 0.148 X 1 1/2 [STUD]</p>
<p>(C3)</p> <p>SP1 (6) 0.148 X 3 [STUD] (4) 0.148 X 3 [PLATE]</p>	<p>(H1)</p> <p>HTTS Ø 5/8" ANCHOR BOLT SEE TABLE ON SHEET W1.1</p>

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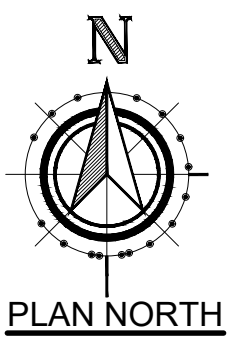
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W1.0



SEE # P-0723037 010

GENERAL ELECTRICAL NOTES

- COORDINATE WITH THE ARCHITECT FOR EXACT LOCATION AND MOUNTING REQUIREMENTS FOR ALL OUTLETS. DISCREPANCY BETWEEN THE ARCHITECTURAL PLAN AND ELECTRICAL PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
- BRANCH CIRCUITS SHOWN ARE THE BE FIELD VERIFIED FOR AVAILABILITY PRIOR TO CONSTRUCTION. IF THERE IS A DISCREPANCY IN THE NUMBER OF AVAILABLE CIRCUITS THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO CONSTRUCTION. CONTRACTOR SHALL UPDATE THE PANEL DIRECTOR OF THE EXISTING PANEL BOARD(S) USED FOR THIS SCOPE OF WORK. UPDATED DIRECTORY SHALL BE TYPEWRITTEN.
- ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH NEC REQUIRED NEUTRAL CONDUCTORS.
- ALL GROUNDING AND PHASE CONDUCTORS SHALL BE IDENTIFIED AND BUNDLED.
- ALL WIRE AND CONDUIT TO BE ABANDONED SHALL BE REMOVED FROM ITS POINT OF SERVICE TO ITS POINT OF TERMINATION.
- WHERE MULTIPLE WIRING DEVICES ARE SHOWN IN ONE LOCATION, THESE DEVICES SHALL BE MOUNTED UNDER A COMMON COVER PLATE UNLESS OTHERWISE SPECIFIED BY THE ARCHITECT. VERIFY WITH ARCHITECT PRIOR TO ROUGH-IN.
- BRANCH CIRCUITS UTILIZING MULTI-WIRE BRANCH CIRCUITS SHALL BE PROVIDED WITH A FACTORY APPROVED COMMON TRIPPING MEANS. REFER TO NEC 210.4(B), 605.6 AND 605.7.
- THE CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL OWNER/TENANT FURNISHED FURNITURE AND EQUIPMENT PER RESPECTIVE MANUFACTURERS SPECIFICATIONS UNLESS NOTED OTHERWISE.
- PROVIDE TYPE WRITTEN, SELF ADHESIVE STRIP WITH BRANCH CIRCUIT INFORMATION ON COVER PLATE OF EACH POWER RECEPTACLE.
- THE CONTRACTOR SHALL PROVIDE A FLUSH WALL BOX WITH RING AND PULL WIRE TO 6 INCHES ABOVE CEILING AT ALL WALL TELEPHONE AND DATA LOCATIONS.
- SOME EQUIPMENT MAY NEED RECEPTACLES, ELECTRICAL CONTRACTOR TO INSTALL RECEPTACLES WHERE REQUIRED, VERIFY WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN. DO NOT HARDWIRE.

GENERAL LIGHTING NOTES

- BRANCH CIRCUITS SHOWN ARE TO BE FIELD VERIFIED FOR AVAILABILITY PRIOR TO CONSTRUCTION. IF THERE IS A DISCREPANCY IN THE NUMBER OF AVAILABLE CIRCUITS THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO CONSTRUCTION. CONTRACTOR SHALL UPDATE THE PANEL DIRECTORY OF THE EXISTING PANEL BOARD(S) USED FOR THIS SCOPE OF WORK. UPDATED DIRECTORY SHALL BE TYPEWRITTEN.
- ALL WIRE AND CONDUIT TO BE ABANDONED SHALL BE REMOVED FROM ITS POINT OF ORIGIN TO ITS POINT OF TERMINATION.
- ALL EXISTING JUNCTION BOXES, AND OTHER ELECTRICAL TELE/DATA AND LIFE SAFETY DEVICES WHICH ARE IN CONFLICT WITH NEW ARCHITECTURAL OR ARE NOW LOCATED IN AN ACCESSIBLE SPACE DUE TO STRUCTURAL, HVAC OR ACOUSTICAL REVISIONS AS A RESULT FROM THIS BUILD-OUT, ARE TO BE RELOCATED TO AN ACCESSIBLE LOCATION. EXTEND CONDUIT AND WIRING REQUIRED FOR SUCH RELOCATION.
- NEW EXIT FIXTURES SHALL MATCH BUILDING STANDARD UNLESS NOTED OTHERWISE.
- CONTRACTOR TO COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR LIGHTING FIXTURES TYPES AND QUANTITY.
- VERIFY THE TYPE OF CEILING SYSTEM WITH GENERAL CONTRACTOR OR CEILING CONTRACTOR. PROVIDE FIXTURES WHICH ARE COMPATIBLE WITH THE CEILING SYSTEM AND INCLUDE ALL REQUIRED MOUNTING ACCESSORIES AND HARDWARE.
- ANY FIXTURE SUBSTITUTION MUST BE APPROVED BY THE ARCHITECT AND/OR LIGHTING DESIGNER PRIOR TO BID. CONTRACTOR MUST BE PREPARED TO SUPPLY A SAMPLE AND/OR PHOTOMETRIC DATA IF REQUIRED. IF SUBSTITUTION IS REJECTED, CONTRACTOR MUST BE PREPARED TO PROVIDE SPECIFIED PRODUCT WITHOUT DELAY.
- SUPPORT CEILING MOUNTED LIGHTING FIXTURES DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT FIXTURES FROM PIPING, DUCTWORK OR ANY OTHER EQUIPMENT, OR SOLELY FROM THE SUSPENDED CEILING.
- CROSS HATCHED LIGHT FIXTURES TO BE SERVED FROM NON-SWITCHED NIGHT LIGHT BRANCH CIRCUIT AND BE PROVIDED WITH 90 MINUTE BATTERY PACK EMERGENCY LIGHTING. REFERENCE LIGHTING SEQUENCE OF OPERATION FOR METHOD OF CONTROL FOR EACH AREA.
- ALL EXIT SIGNS SHALL BE READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL AND SHALL MATCH BUILDING STANDARD.

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—	CONDUIT	⏏	MOTOR CONTROL SWITCH	HM	WALL MICROPHONE OUTLET
----	CONDUIT IN OR UNDERFLOOR	⏏	DUPLEX RECEPTACLE - STANDARD MOUNTING HEIGHT (18" AFF UNO)	HV	WALL VOLUME CONTROL OUTLET
—○	CONDUIT STUBBED UP	⏏	DUPLEX RECEPTACLE ABOVE COUNTER (HEIGHT SPECIFIED BY ARCHITECT)	HV	RECESSED WALL TV OUTLET (REFERENCE SPECIAL DEVICE SCHEDULE)
—○	CONDUIT STUBBED DOWN	⏏	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE MOUNTING HEIGHT (18" AFF UNO)	⌚	PROGRAM CLOCK
○	LED LIGHTING FIXTURE	⏏	USB CHARGING DUPLEX RECEPTACLE COMBO (1) TYPE A PORT, AND (1) TYPE C PORT	🔔	PROGRAM BELL
○	LED 2X2 LIGHT FIXTURE	⏏	DUPLEX RECEPTACLE ON GFCI BREAKER	📄	CARD READER
▬	WALL MOUNTED STRIP LIGHT FIXTURE	⏏	ISOLATED GROUND DUPLEX RECEPTACLE MOUNTING HEIGHT (18" AFF UNO)	📄	PUSHBUTTON STATION
○	CEILING LIGHTING FIXTURE	⏏	DEDICATE DUPLEX RECEPTACLE	🔔	BUZZER
○	WALL LIGHTING FIXTURE	⏏	CEILING MOUNTED DUPLEX RECEPTACLE	📄	EMERGENCY POWER OFF PUSHBUTTON
○	CEILING LIGHTING FIXTURE - WALL WASHER	⏏	QUADRUPLX RECEPTACLE MOUNTINGHEIGHT (18" AFF UNO)	🔌	MOTOR CONNECTION
▨	EMERGENCY LIGHTING FIXTURE	⏏	SIMPLEX RECEPTACLE	🔌	DISCONNECT SWITCH
⏏	WALL MOUNTED EXTERIOR LIGHT FIXTURE	⏏	SPECIAL RECEPTACLE AS NOTED	🔌	FUSED DISCONNECT SWITCH
⏏	CEILING LIGHTING FIXTURE - EMERGENCY	⏏	COMMUNICATION WALL OUTLET	🔌	MAGNETIC MOTOR STARTER
⏏	EXIT LIGHT FIXTURE - SINGLE FACE	⏏	FLOOR BOX POWER ONLY ("X" DENOTE TYPE REFERANCE FLOOR BOX SCHEDULE)	🔌	COMBINATION MAGNETIC STARTER / DISCONNECT SWITCH
⏏	WALL EXIT LIGHT FIXTURE - SINGLE FACE	⏏	FLOOR BOX COMBINATION ("X" DENOTE TYPE REFERANCE FLOOR BOX SCHEDULE)	📄	TRANSFORMER
⏏	EXIT LIGHT FIXTURE - DOUBLE FACE	⏏	POWER POLE	⊕	GROUND CONNECTION
⏏	EMERGENCY BATTERY PACK LIGHT	⏏	WALL SPEAKER ASSEMBLY	📄	PANELBOARD
▽	LIGHTING TRACK WITH TRACK FIXTURES	⏏	CEILING SPEAKER ASSEMBLY	📄	PANELBOARD FLUSH MOUNTED
§	SINGLE POLE TOGGLE SWITCH	⏏	FLOOR MICROPHONE OUTLET	📄	DISTRIBUTION PANEL / SWITCHBOARD
§ _p	TOGGLE SWITCH WITH PILOT LIGHT	⏏	JUNCTION BOX	🏠	HOME RUN
§ ₃	THREE-WAY TOGGLE SWITCH	⏏	WALL JUNCTION BOX	H - 1,3,5	ONE (1) THREE-POLE CIRCUIT
§ ₄	FOUR-WAY TOGGLE SWITCH			⏏	ELECTRICAL METER
§ _R	RELAY CONTROL SWITCH				
§ _{MC}	MOMENTARY CONTROL SWITCH				
§ _M	TOGGLE SWITCH W/THERMAL OVERLOAD				
§ _K	KEY OPERATED SWITCH				
§ _{OC}	WALL MOUNTED VACANCY SENSOR (DUAL TECHNOLOGY)				
§ _{OD}	WALL MOUNTED VACANCY SENSOR (DUAL TECHNOLOGY) (WITH DIMMING)				
§ _{LV}	LOW VOLTAGE PUSH-BUTTON SWITCH				
§ _{XP}	LOW VOLTAGE PUSH-BUTTON SWITCH "X" INDICATED NUMBER OF SWITCH LEGS				
§ _{DV}	LOW VOLTAGE PUSH-BUTTON SWITCH (WITH DIMMING)				
§ _{DV}	LOW VOLTAGE PUSH-BUTTON SWITCH (WITH DIMMING)"X" INDICATED NUMBER OF SWITCH LEGS				
Ⓞ	CEILING OCCUPANCY SENSOR (DUAL TECHNOLOGY)				
Ⓞ	PHOTOSENSOR/ DAYLIGHT RESPONSIVE CONTROL				

NOTE: NOT ALL SYMBOLS USED

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 77414

BEE COUNTY TAX OFFICE
 - RENOVATIONS -
 411 E. HOUSTON ST.
 BEEVILLE, TX. 78102

BEE COUNTY OFFICE
 105 W. CORPUS CHRISTI ST.
 BEEVILLE, TX. 78102

DESIGN INFO:
 PROJECT FILE NO.:
 BEE COUNTY TAX
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 CHECKED BY: SEE
 DESIGNED BY: SEE
 JOB NO.: 10-100208

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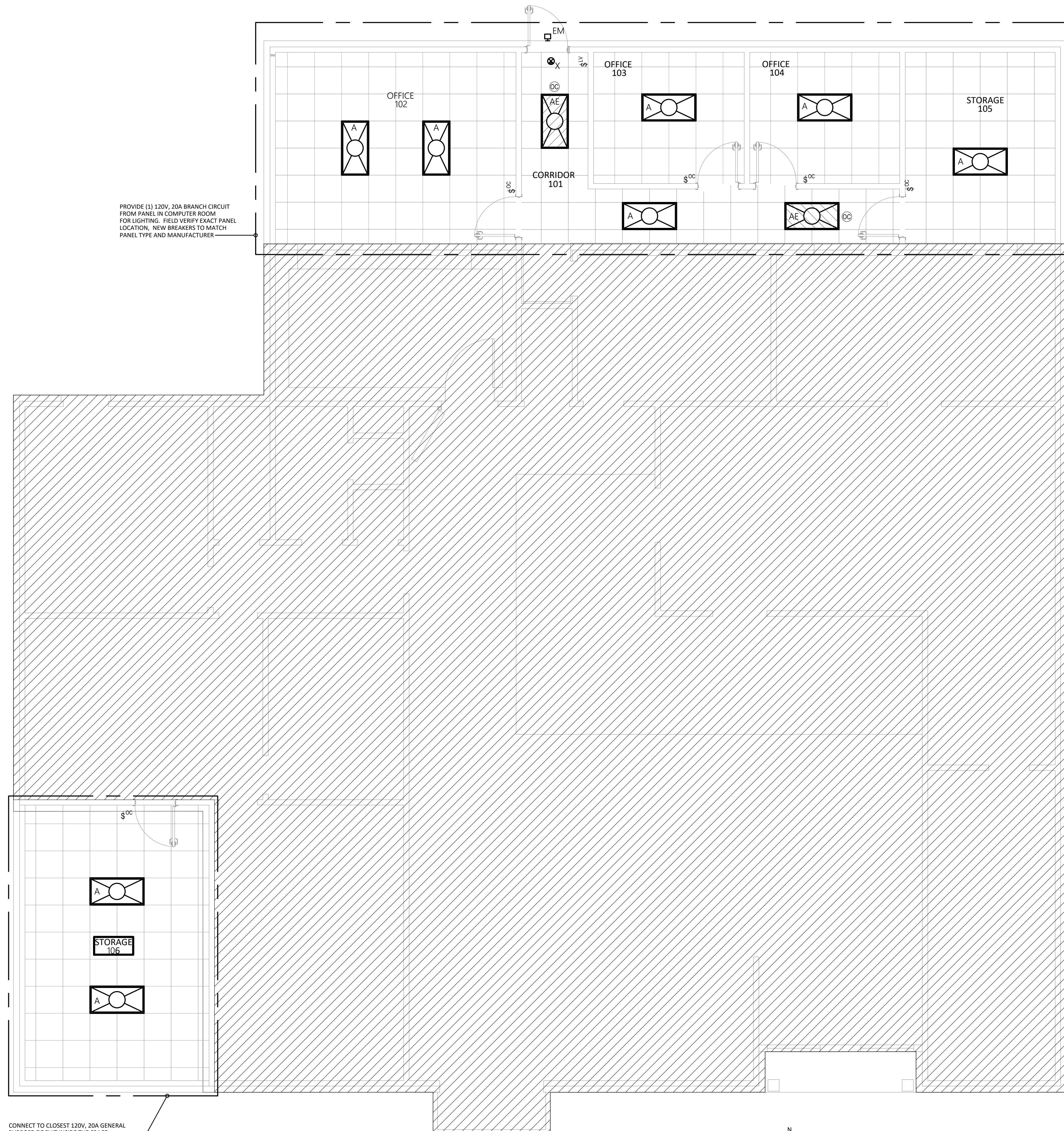
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00/00/00	REVISION 3
00/00/00	REVISION 4

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- ### LIGHTING SEQUENCE OF OPERATIONS IECC 2015
- PRIVATE OFFICE**
- LIGHTING SHALL BE CONTROLLED WITH STAND-ALONE CEILING MOUNTED SENSOR OR WALL MOUNTED VACANCY SENSOR WITH 0-10V DIMMING CAPABILITY. REFERENCE DRAWINGS FOR SENSOR LOCATION.
- CORRIDORS**
- LIGHTING SHALL BE CONTROLLED WITH MULTI-ZONE OPERATION WITH 0-10V DIMMING CAPABILITY AND TIME-CLOCK FUNCTIONALITY.
 - CONTROL STATIONS SHALL BE PRESET STATION FOR SCENE CONTROL, KEYPAD OR TOUCH-SCREEN.
 - DAYLIGHT SENSORS AND DIMMING SHALL BE USED AS REQUIRED FOR SPACES WITH MORE THAN 150W OF LIGHTING IN DAYLIGHT ZONES WITHIN SPACE, PER IECC 2015.
 - REFER TO DRAWINGS FOR COORDINATION OF SWITCH LEG AND ZONE CONTROL.
 - LIGHTS TO TURN ON AND OFF BASED OFF BUSINESS HOURS TIME CLOCK, WITH OVERRIDE STATION LOCKED OUT DURING BUSINESS HOURS.
 - AFTER HOURS LIGHTS CAN BE TURNED ON VIA OVERRIDE STATION OR CEILING MOUNTED OCCUPANCY SENSORS.
- STORAGE ROOM**
- LIGHTING SHALL BE CONTROLLED WITH STAND-ALONE LINE VOLTAGE VACANCY SENSOR WITH ON/OFF OPERATION ONLY.

LIGHTING FIXTURE LEGEND

A	2 X 4 FLAT PANEL LED TROFFER, UNIVERSAL VOLTAGE 120/277, 0-10V, 35K, 5000 LUMEN, COOPER LIGHTING OR APPROVED EQUAL.
AE	2 X 4 FLAT PANEL LED TROFFER, UNIVERSAL VOLTAGE 120/277, 0-10V, 35K, 5000 LUMEN, 14W EM BATTERY PACK INCLUDED, COOPER LIGHTING OR APPROVED EQUAL.
X	EXIT SIGN, THERMOPLASTIC, RED LETTERS, BATTERY PACK, SURE-LITES OR APPROVED EQUAL.
EM	EXTERIOR EGRESS EMERGENCY LIGHT, SURE-LITES AEL2 OR APPROVED EQUAL.

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

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FLOOR PLAN - LIGHTING

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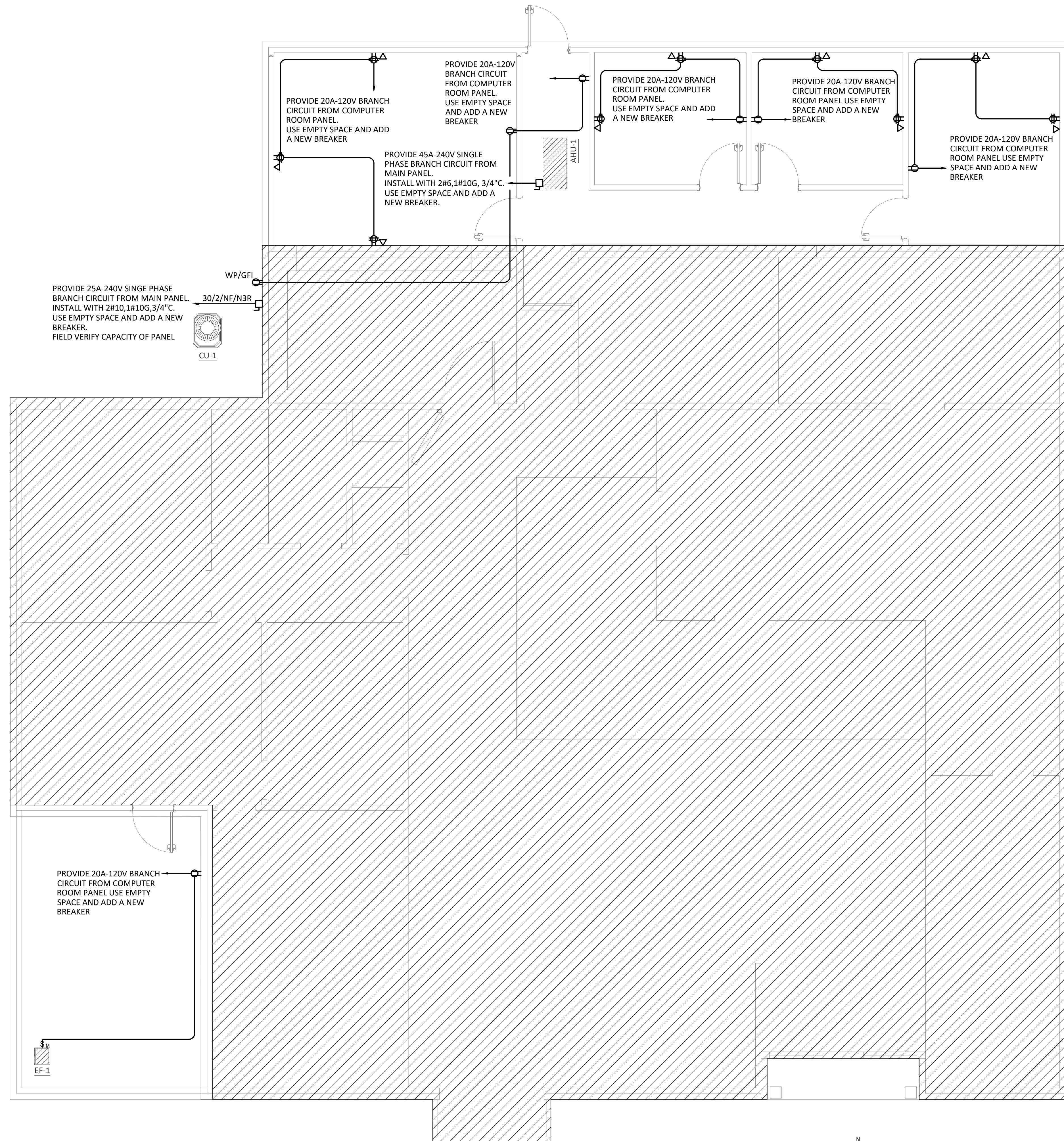
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Texas Registered Engineering Firm # F-18652

SEE # F-0723037 010



PROVIDE 25A-240V SINGLE PHASE BRANCH CIRCUIT FROM MAIN PANEL. INSTALL WITH 2#10, 1#10G, 3/4\"/>



CU-1

AHU-1

EF-1

01 FLOOR PLAN - POWER
SCALE: 1/4" = 1'-0"

SEE # P-0723037 010

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COMMISSIONING NOTE:

MECHANICAL AND ELECTRICAL SYSTEM COMMISSIONING PER INTERNATIONAL ENERGY CODE (IECC) SECTION C408.

THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A REGISTERED PROFESSIONAL ENGINEER TO COMMISSION THE NEW MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS DESIGNED AND SPECIFIED FOR THIS PROJECT.

THE REGISTERED PROFESSIONAL ENGINEER SHALL DEVELOP A COMMISSIONING PLAN AND ACT AS THE PROJECT'S COMMISSIONING AUTHORITY. THE COMMISSIONING PLAN AND ACTIVITIES SHALL INCLUDE THE FOLLOWING:

- A NARRATIVE DESCRIBING THE ACTIVITIES TO ACCOMPLISH DURING EACH COMMISSIONING PHASE.
- PUBLISHED START-UP, PRE-FUNCTIONAL AND FUNCTIONAL TESTING FORMS AND SCRIPTS FOR EACH SPECIFIC EQUIPMENT, APPLIANCE AND SYSTEM. THE COMMISSIONING PLAN SHALL SATISFY THE REQUIREMENTS OF IECC SECTION C408 FOR FUNCTIONAL PERFORMANCE TESTING.
- THE COMMISSIONING AUTHORITY SHALL MAINTAIN AN OPEN ISSUE LOG ITEMIZING DEFICIENCIES FOUND DURING SITE VISITS AND COMMISSIONING ACTIVITIES. THE COMMISSIONING AUTHORITY SHALL PUBLISH THIS OPEN ISSUE LOG AND COMPLETED COMMISSIONING FORMS TO THE BUILDING OWNER AT THE COMPLETION OF THE COMMISSIONING ACTIVITIES.
- THE COMMISSIONING AUTHORITY IS RESPONSIBLE FOR ASSEMBLING AND ISSUING TO THE BUILDING OWNER THE FOLLOWING DOCUMENTATION WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATION OF OCCUPANCY:
 - EQUIPMENT OPERATIONS AND MAINTENANCE MANUALS INCLUDING THE INFORMATION PER IECC SECTION C408.2.5.2.
 - SYSTEMS' TESTING AND BALANCING REPORTS.
 - FINAL COMMISSIONING REPORT.

THE FOLLOWING MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT AND SYSTEMS SHALL BE INCLUDED IN THE COMMISSIONING PLAN:

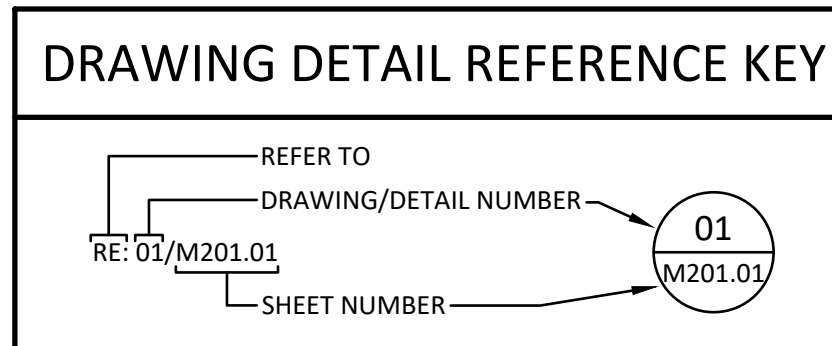
- AIR HANDLING UNITS AND EXHAUST FANS AND CONTROLS.
- WATER HEATERS.
- LIGHTING CONTROLS.

PROJECT DESIGN CRITERIA	
LOCATION	
CITY	BEEVILLE
STATE	TX
APPLICABLE CODES	
BUILDING	2015 IBC
MECHANICAL	2015 IMC
PLUMBING	2015 IPC
ENERGY	2015 IECC
ELECTRICAL	2014 NEC
OUTDOOR DESIGN CONDITIONS	
ELEVATION	270
SUMMER (DB/MCWb)	99.5°F / 74.7
WINTER (DB)	32.4°F
INDOOR DESIGN CONDITIONS	
COOLING - DB/RH	75°F / 50%
HEATING	70°F

GENERAL NOTES:

- "CONSTRUCTION DOCUMENTS" ARE DEFINED AS ALL DRAWINGS AND SPECIFICATIONS TOGETHER. CONTRACTOR SHALL FULLY EXAMINE AND BECOME FAMILIAR WITH THE CONSTRUCTION DOCUMENTS IN THEIR ENTIRETY. ANY DISCREPANCY OR UNCLEAR INFORMATION FOUND IN THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT PRIOR TO PERFORMING ANY WORK INVOLVING ANY CONFLICTING INFORMATION. ALL COSTS SUBMITTED SHALL BE BASED ON THOROUGH KNOWLEDGE OF ALL PRODUCTS, MATERIALS, AND LABOR REQUIRED FOR COMPLETE, COORDINATED, PROPERLY INSTALLED, AND FUNCTIONING SYSTEMS. ANY ADDITIONAL COSTS DUE TO FAILURE TO COMPLY WITH THIS REQUIREMENT ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- DRAWINGS ARE DIAGRAMMATIC AND SHOW ONLY GENERAL ARRANGEMENT OF WORK. NOT ALL TRANSITIONS, OFFSETS, SLOPES, ETC. ARE SHOWN THAT MAY BE REQUIRED FOR PROPER INSTALLATION. DRAWINGS DO NOT SHOW DIMENSIONS FOR LOCATING ANY WORK AND SHALL NOT BE SCALED FOR BIDDING, ORDERING, INSTALLATION, OR ANY OTHER PURPOSE.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REQUIREMENTS OF HIS WORK WITH ALL OTHER TRADES. THIS INCLUDES, BUT IS NOT LIMITED TO: POWER REQUIREMENTS; LOCATIONS OF EQUIPMENT, AIR DEVICES, DUCTWORK, AND PIPING; PROPER SERVICE AND CODE-REQUIRED WORKING CLEARANCES; CONTROLS REQUIREMENTS; ETC.
- SUBMITTAL REVIEW: SUBMITTALS ARE REVIEWED BY THE ENGINEER ONLY FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS, MEANS AND METHODS OF CONSTRUCTIONS, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR IS FULLY RESPONSIBLE FOR ALL SUBMITTALS PROVIDED - EITHER BY HIM DIRECTLY, OR INDIRECTLY BY HIS VENDORS OR SUB-CONTRACTORS. SUBMITTALS PROVIDED BY VENDORS OR SUB-CONTRACTORS SHALL BE THOROUGHLY REVIEWED BY THE SUBMITTING CONTRACTOR FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS AND COORDINATION WITH ALL OTHER TRADES PRIOR TO SUBMITTAL TO THE ENGINEER.
- IN THE EVENT THERE ARE ANY ISSUES RELATED TO QUALITY OF MATERIALS AND/OR OPERATIONS OF ANY MECHANICAL, ELECTRICAL OR PLUMBING EQUIPMENT, THE OWNER SHALL PUT INTO FORCE ANY ARTICLES OF THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR RELATED TO ITEMS STATED ABOVE.
- IN THE EVENT ANY ITEMS ARE DEEMED TO BE POOR QUALITY, NOT IN WORKING ORDER OR ANY OTHER DEFICIENCY, THE CONTRACTOR SHALL HAVE THE RIGHT TO ENFORCE ANY AND ALL WARRANTY LANGUAGE AS STATED BETWEEN THEIR (OWNER AND CONTRACTOR) AGREEMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL NECESSARY MATERIALS AND LABOR WHETHER SHOWN ON THE DRAWINGS OR NOT. THE OWNER MAINTAINS ALL RIGHTS AND FIRST REFUSAL FOR ANY SUBSTITUTIONS FOR ANY MATERIALS REQUIRED FOR THE COMPLETION OF THIS CONSTRUCTION PROJECT.
- THE ARCHITECT AND ENGINEER SHALL BE HELD HARMLESS FOR ANY INSTALLATIONS NOT PREVIOUSLY REVIEWED OR DESIGNED.
- ALL CONDUIT, RACEWAYS, PIPING, DUCTWORK, AND EQUIPMENT SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION AND COMMENCEMENT OF ANY WORK.
- INSTALL ALL NEW CONDUIT, PIPING, UTILITIES, ETC. WITHIN NEW WALLS. ALL DUCTWORK SHALL BE INSTALLED CONCEALED ABOVE THE CEILING UNLESS NOTED OTHERWISE.

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	TEMPERATURE SENSOR
	THERMOSTAT
	HUMIDISTAT
	3/4" DOOR UNDERCUT
	CONNECT TO EXISTING



HVAC DUCTWORK LEGEND		
SINGLE LINE DUCTWORK	DESCRIPTION	DOUBLE LINE DUCTWORK
	ROUND ELBOW DOWN	
	ROUND ELBOW UP	
	OFFSET TO CHANGE ELEVATION (AT 30° WHEN POSSIBLE. ARROW SLOPES DOWN, U.O.N.)	
	ROUND RADIUS ELBOW R = 1	
	90° STRAIGHT TEE	
	90° CONICAL TEE	
	45° LATERAL TAP	
	45° LATERAL CONICAL TEE	
	SIZE OR SHAPE TRANSITION	
	ROUND FLEXIBLE DUCT	
	RECTANGULAR ELBOW DOWN	
	RECTANGULAR ELBOW UP	
	OFFSET TO CHANGE ELEVATION (AT 30° WHERE POSSIBLE. ARROW SLOPES DOWN., U.O.N)	
	RECTANGULAR RADIUS ELBOW R = 1	
	RECTANGULAR ELBOW WITH TURNING VANES	
	SPLIT BRANCH TAKE-OFF WITH SQUARE ELBOW & SPLITTER DAMPER	
	SPLIT BRANCH TAKE-OFF WITH RADIUS ELBOW & SPLITTER DAMPER	
	SPLIT BRANCH TAKE-OFF TEE WITH STATIONARY SPLITTER DAMPER	
	BRANCH TAKE-OFF WITH 45° LEAD IN TAP	
	INSULATED / LINED DUCTWORK (U.O.N.)	
	SQUARE FACED CEILING DIFFUSER 4-WAY DIRECTIONAL THROW (U.N.O.)	
	ROUND FACED CEILING DIFFUSER	
	CEILING RETURN OR EXHAUST AIR GRILLE OR REGISTER	
	SIDEWALL SUPPLY GRILLE OR REGISTER	
	SUPPLY DUCT RISER	
	RETURN, EXHAUST OR OUTSIDE AIR DUCT RISER	
	MANUAL BALANCING DAMPER	
	AUTOMATIC (MOTOR-OPERATED) DAMPER	
	FIRE DAMPER	
	GRAVITY BACKDRAFT DAMPER	
	COMBINATION FIRE AND SMOKE DAMPER WITH SMOKE DETECTOR	
	SMOKE DAMPER (AUTOMATIC) WITH SMOKE DETECTOR	
	RETURN GRILLE W/ RETURN AIR BOOT	
	EXISTING DUCTWORK TO BE DEMOLISHED	
	EXISTING DUCTWORK TO REMAIN	
	NEW DUCTWORK	

NOTE: NOT ALL SYMBOLS USED

HVAC ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
ACU	AIR - CONDITIONING UNIT
AD	ACCESS DOOR
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
AS	AIR SEPARATOR
CAV	CONSTANT AIR VOLUME TERMINAL
CC	COOLING COIL
CD	CEILING DIFFUSER
CHWP	CHILLED WATER PUMP
CP	CONDENSATE PUMP
CRAC	COMPUTER ROOM AIR CONDITIONER
CR	CEILING REGISTER
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CWP	CONDENSER WATER PUMP
EF	EXHAUST FAN
EDH	ELECTRIC DUCT HEATER
EHC	ELECTRIC HEATING COIL
ER	EXHAUST REGISTER
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FPB	FAN POWERED BOX
GUH	GAS FIRED UNIT HEATER
H	HUMIDIFIER
HP	HEAT PUMP
HRC	HEAT RECOVERY UNIT
HVLS	HIGH VOLUME LOW SPEED
HVU	HEATING AND VENTILATING UNIT
HX	HEAT EXCHANGER
OAF	OUTSIDE AIR FAN
PRV	PRESSURE REDUCING VALVE
RAF	RETURN AIR FAN
RAG	RETURN AIR GRILLE
RAR	RETURN AIR REGISTER
RHC	REHEAT COIL
RTU	ROOF TOP A/C UNIT
SA	SOUND ATTENUATOR (TRAP)
SC	STEAM COIL
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SR	SUPPLY REGISTER
SRV	SAFETY RELIEF VALVE
TEF	TOILET EXHAUST FAN
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME TERMINAL UNIT
VFD (VSD)	VARIABLE FREQUENCY (SPEED) DRIVE
WCC	WATER COOLED CHILLER

NOTE: NOT ALL SYMBOLS USED

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BEE COUNTY TAX OFFICE
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 MECHANICAL COVER SHEET

PROJECT NAME:
 BEE COUNTY OFFICE
 105 W. CORPUS CHRISTI ST.
 BEEVILLE, TX. 78102

CUSTOMER NAME:
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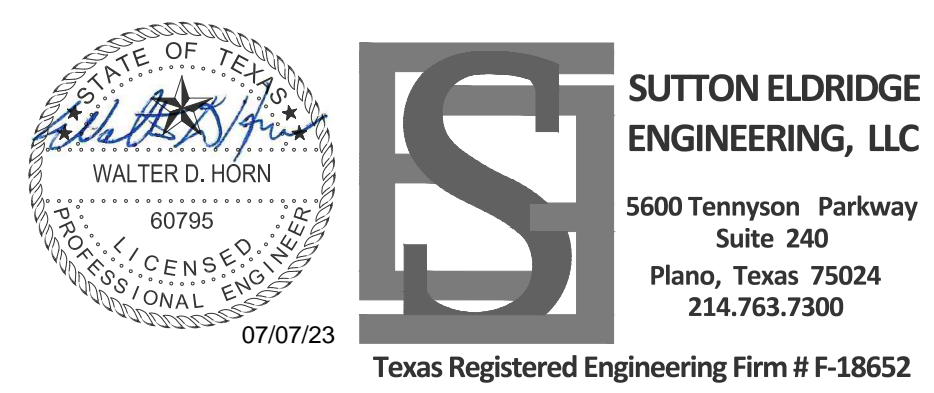
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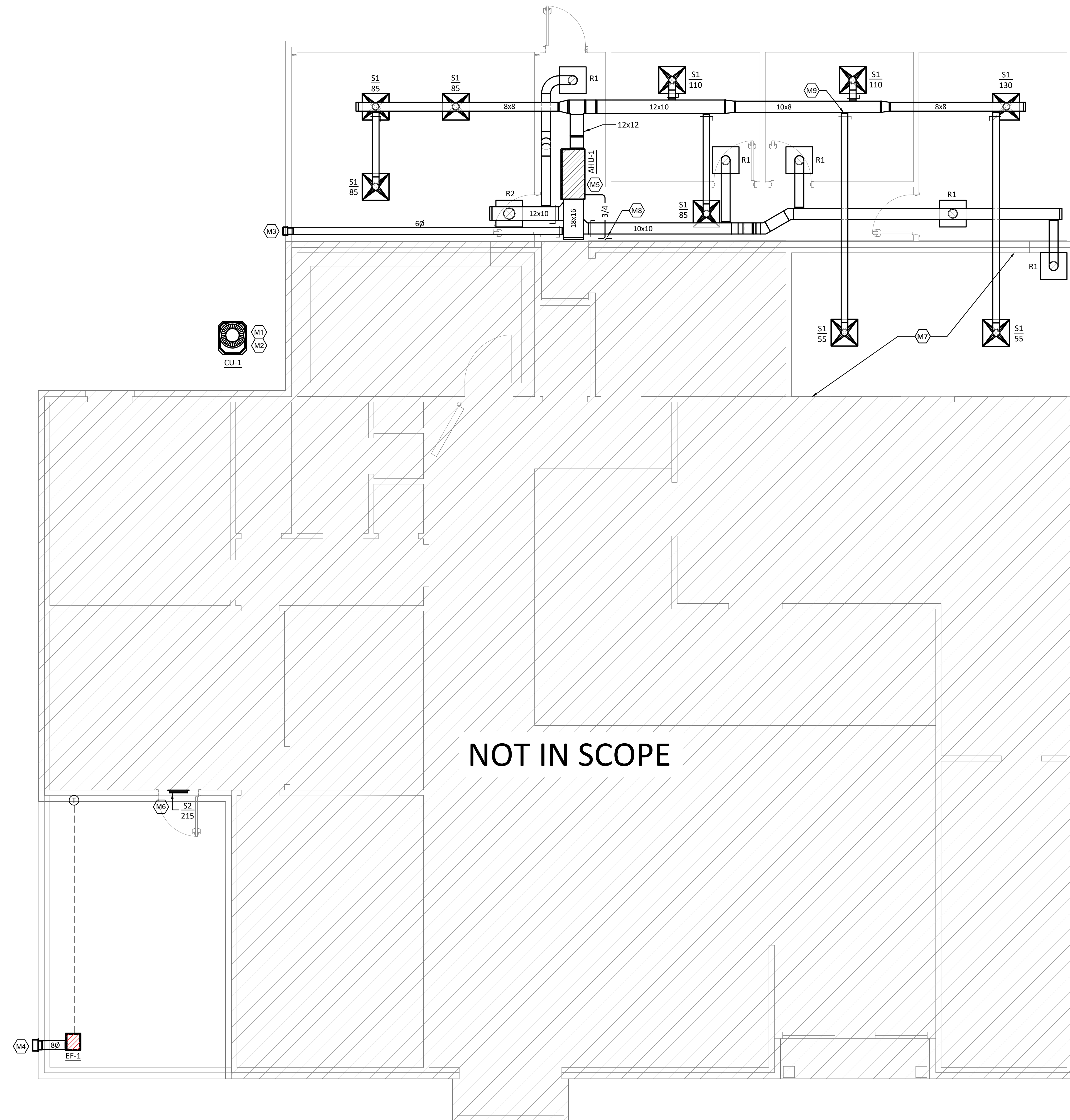
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- GENERAL NOTES:**
- COORDINATE THE LOCATION OF ALL AIR DISTRIBUTION DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN INCLUDING LIGHT FIXTURES AND LIFE SAFETY DEVICES.
 - VERIFY LOCATION OF THERMOSTATS/TEMPERATURE SENSORS WITH THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION TO COORDINATE WITH THE LATEST FURNITURE AND MILLWORK PLANS. INSTALL DEVICES AT 48" AFF, UNLESS OTHERWISE NOTED ON THE PLANS.
 - ALL WORK SHALL COMPLY WITH THE LOCAL BUILDING, PLUMBING, AND MECHANICAL CODES, NFPA 90A, AND ANY OTHER APPLICABLE CODES.
 - ALL LOCATIONS OF DEVICES ARE APPROXIMATE. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
 - SEAL NEW OR EXISTING PENETRATIONS IN OF FLOORS, RATED PARTITIONS, AND CORRIDOR WALLS. USE FIRESTOP AT ALL RATED PARTITIONS.
 - COORDINATE ALL FLOOR AND ROOF PENETRATIONS WITH STRUCTURAL.
 - FLEX DUCT LENGTH NOT TO EXCEED 5'-0". PROVIDE MANUAL DAMPER AT ALL TAKE-OFFS.
 - ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS.
 - ALL DUCTWORK DIMENSIONS ARE CLEAR INSIDE DIMENSIONS. ADJUST METAL SIZES TO ACCOMMODATE INTERNAL DUCT LINER AS REQUIRED.
 - TURNING VANES ARE REQUIRED AT EACH TURN IN THE DUCT. EXTRACTORS ARE REQUIRED AT EACH SPLIT.
 - PROVIDE FLEXIBLE CONNECTION AT INTAKE AND DISCHARGE OF MOTOR DRIVEN EQUIPMENT.
 - LABEL ALL AIR VOLUME DAMPERS ON OUTSIDE OF DUCT INSULATION.
 - FIELD VERIFY ALL LOCATIONS OF MECHANICAL EQUIPMENT AND EXHAUST FANS TO MAINTAIN A MINIMUM OF 10'-0" OF CLEARANCE BETWEEN ANY NEW AND/OR EXISTING OUTSIDE AIR INTAKES OR OPENINGS INTO BUILDING AND ANY EXHAUST OR VENT DISCHARGES.
 - EQUIPMENT SHALL BE PROVIDED ACCESS TO PER SECTION 306 OF THE INTERNATIONAL MECHANICAL CODE. EXACT LOCATION AND REQUIREMENTS FOR ACCESS SHALL BE COORDINATED WITH ARCHITECT. REFER TO EXACT CODE SECTION FOR ADDITIONAL SPECIFIC REQUIREMENTS.
 - ALL EQUIPMENT SHALL BE PROVIDED WITH A CLEAR WORKING SPACE NOT LESS THAN 30" DEEP AND 30" WIDE IN FRONT OF CONTROL AREA AND ANY OTHER AREA REQUIRING ACCESS FOR MAINTENANCE, PER IMC 306.1.
 - EQUIPMENT IN AN ATTICS SHALL HAVE AN UNOBSTRUCTED PASSAGEWAY MEASURING NOT LESS THAN 30" HIGH x 22" WIDE x 20'-0" IN LENGTH ALONG THE PATH BACK TO THE ACCESS OPENING WITH CONTINUOUS, LEVEL FLOORING NOT LESS THAN 24" WIDE. ACCESS OPENING SHALL BE LARGE ENOUGH TO REMOVE THE LARGEST PIECE OF EQUIPMENT, BUT NOT LESS THAN 20"x30", PER IMC 306.3.
 - EQUIPMENT ON ROOFS OR ELEVATED STRUCTURES ABOVE 16'-0" SHALL BE PROVIDED WITH PERMANENT ACCESS, PER IMC 306.5.

- NOTES BY SYMBOL (THIS SHEET ONLY)**
- COORDINATE EXACT LOCATION OF OUTDOOR EQUIPMENT WITH ARCHITECT.
 - CONDENSING UNIT MOUNTED ON 4" HIGH (MIN.) CONCRETE EQUIPMENT PAD. COORDINATE TURN DOWN EDGE WITH FINAL GRADE. SIZE AND ROUTE REFRIGERANT PIPING TO ASSOCIATED AIR HANDLING UNIT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - 6" Ø OA INTAKE TO AHU-1. PROVIDE HOODED WALL CAP WITH BIRDSCREEN AND MANUAL BALANCING DAMPER. BALANCE TO 80 CFM. MAINTAIN A MINIMUM OF 10'-0" CLEARANCE BETWEEN OA INTAKE AND EXHAUST TERMINATIONS, TYPICAL.
 - PROVIDE HOODED WALL CAP WITH BIRDSCREEN FOR EXHAUST TERMINATION. MAINTAIN A MINIMUM FO 10'-0" CLEARANCE BETWEEN EXHAUST TERMINATIONS AND OA INTAKES, TYPICAL.
 - SUSPEND AHU ABOVE CEILING. COORDINATE EXACT LOCATION WITH LIGHTS AND CEILING GRID FOR PROPER SERVICE ACCESS. PROVIDE AUX. DRAIN PAN WITH WATER DETECTOR.
 - COORDINATE EXACT HEIGHT OF DOOR GRILLE WITH ARCHITECT.
 - REMOVE EXISTING MECHANICAL EQUIPMENT FROM THIS ROOM AND ANY CORRESPONDING OUTDOOR EQUIPMENT AND PLACE IN OWNER'S STOCK. COORDINATE NEW DIFFUSER/GRILLE LOCATIONS WITH EXISTING LIGHTS AND EXISTING CEILING LAYOUT.
 - TAKE AHU CONDENSATE DRAIN TO NEAREST WASTE RECEPTACLE. DISCHARGE USING OPEN SITE CONNECTION.
 - PROVIDE CONICAL SPIN-IN TAP WITH MANUAL BALANCING DAMPER ON SUPPLY AIR DIFFUSERS, TYPICAL.

SEE # P-0723037 010

01 FLOOR PLAN - MECHANICAL
SCALE: 1/4" = 1'-0"



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FLOOR PLAN - MECHANICAL

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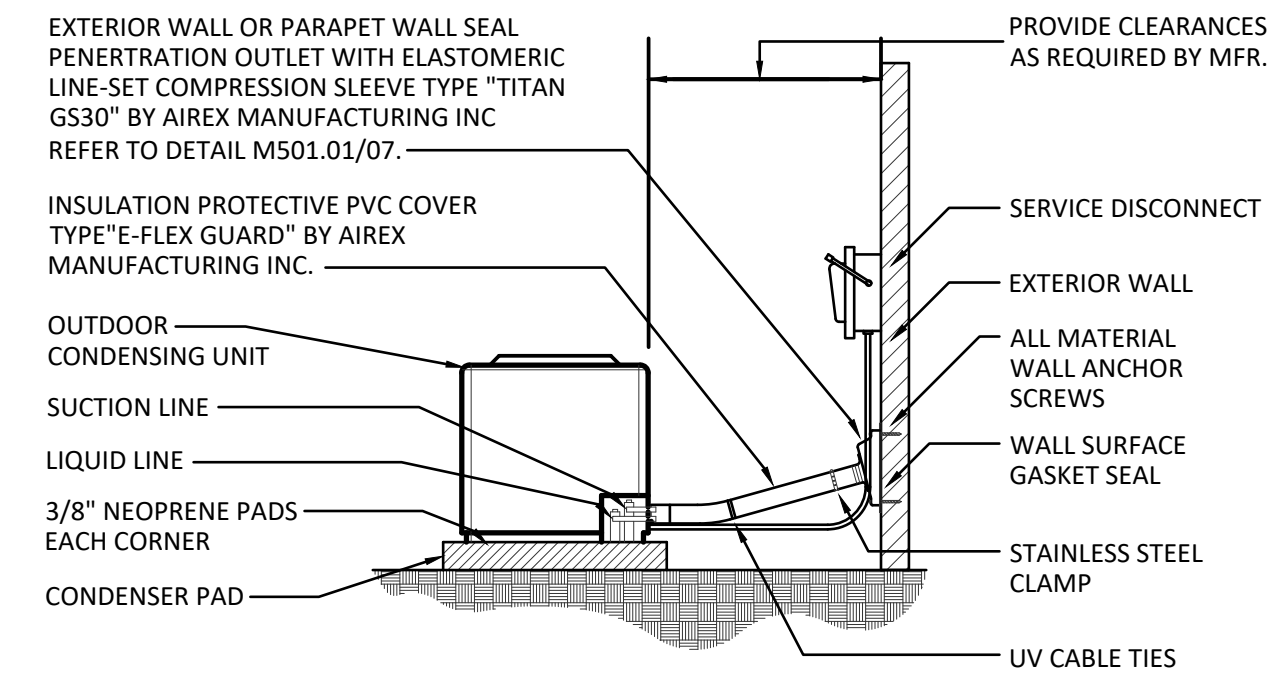
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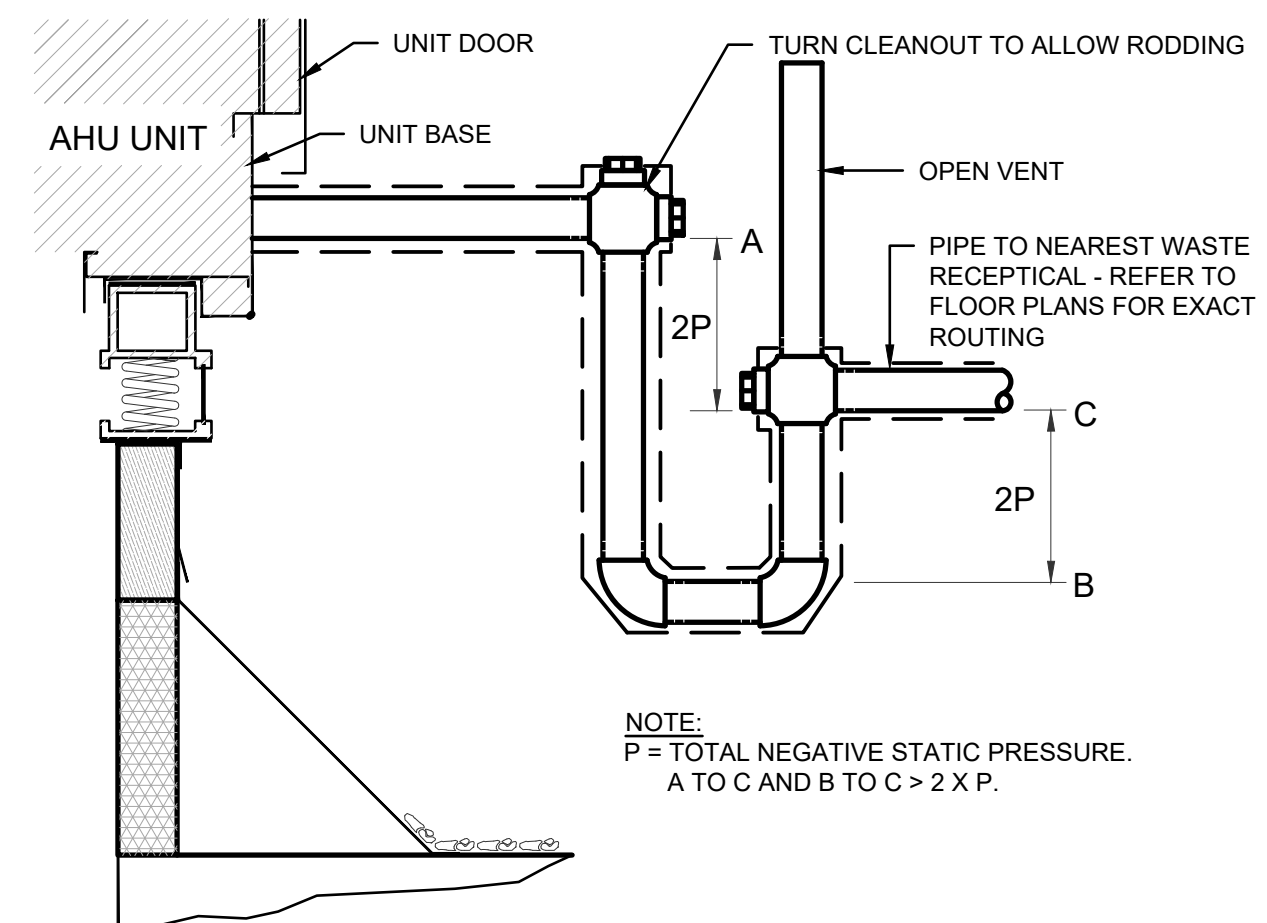
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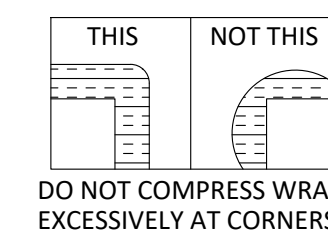
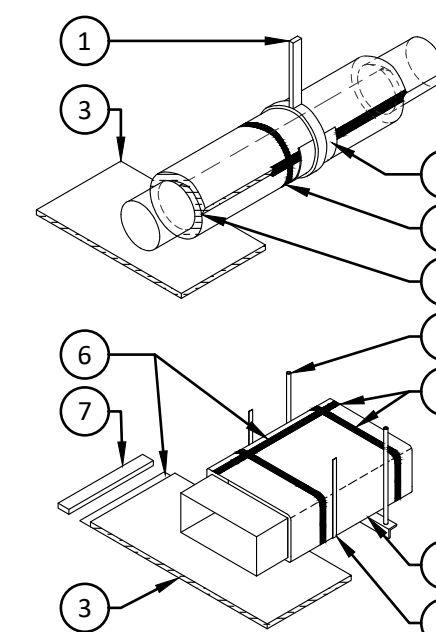
02 TYPICAL CONDENSING UNIT DETAIL
SCALE: NTS



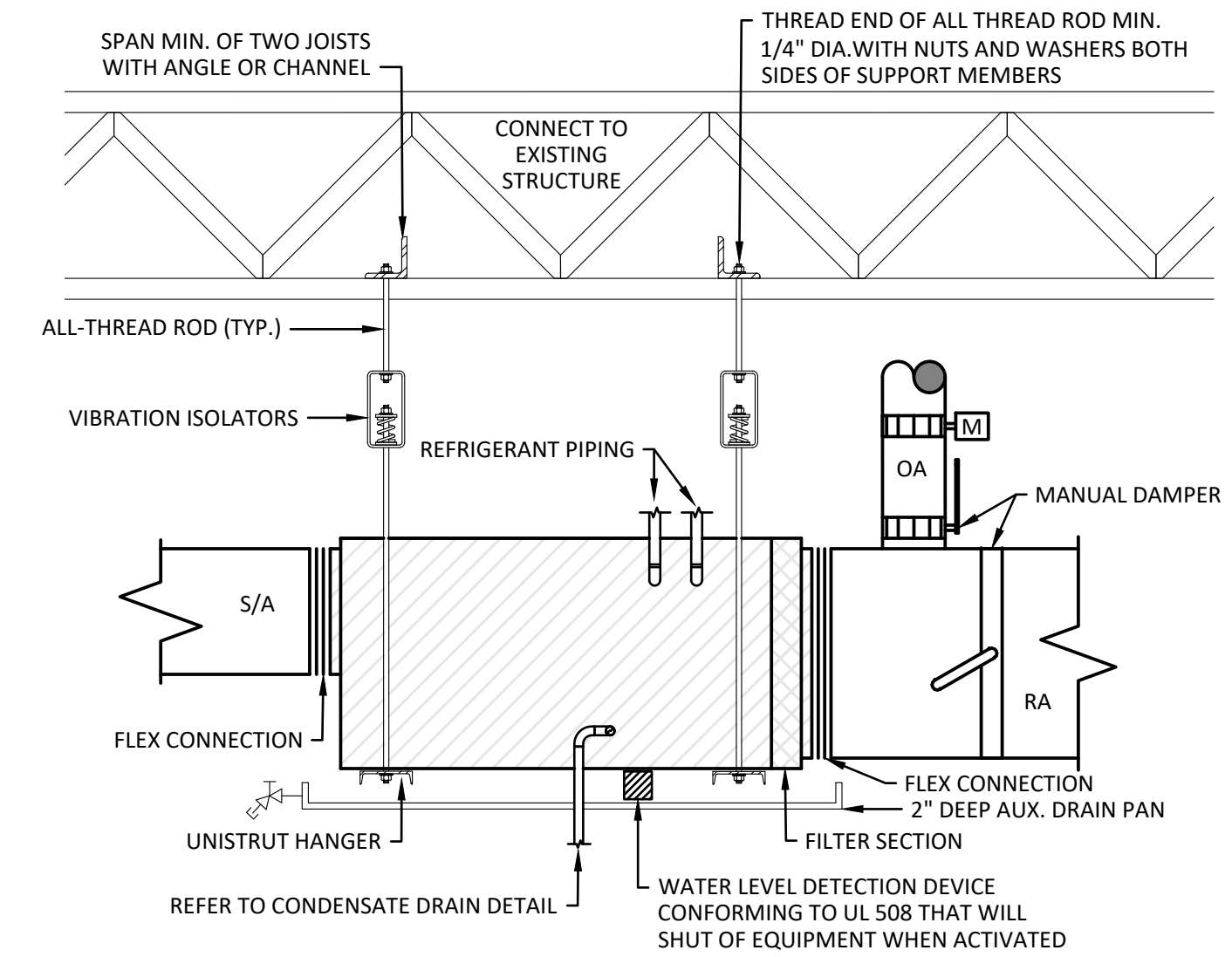
04 AHU CONDENSATE DRAIN DETAIL
SCALE: NTS

- CONNECT STRAP TO STRUCTURE ABOVE. REFER TO SMACNA SHEETMETAL CONSTRUCTION STANDARDS.
- SEAL SEAMS AND PENETRATIONS WITH APPROVED MASTIC REINFORCED W/ 3" GLASS MESH REINFORCEMENT OR 3" FOIL/VAPOR BARRIER TAPE.
- WRAP FLEXIBLE FIBERGLASS INSULATION AROUND DUCTS AND SECURE WITH OUTWARD-CLINCHING STAPLES.
- INSTALL NON-COMPRESSIBLE INSULATION MATERIAL AT HANGER SUPPORTS. ALL HANGER SUPPORTS AND SADDLES SHALL BE OUTSIDE OF INSULATION AND VAPOR BARRIER.
- LAP INSULATION A MINIMUM OF 4 INCHES.
- 2" TAPE FLAP.
- DISCARD EXCESS INSULATION.
- STRAP SUPPORTS. REFER TO SMACNA SHEETMETAL CONSTRUCTION STANDARDS.
- ALL-THREAD RODS. REFER TO SMACNA SHEETMETAL CONSTRUCTION STANDARDS

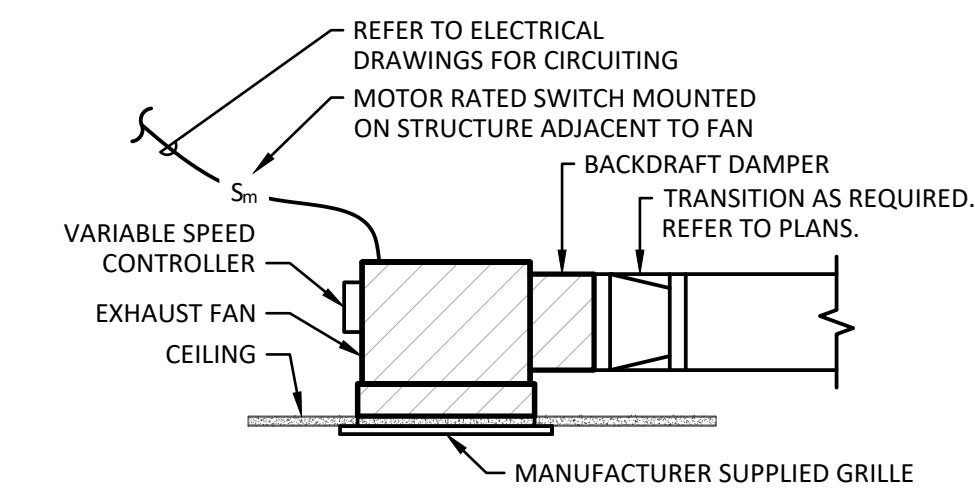
NOTE: REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS



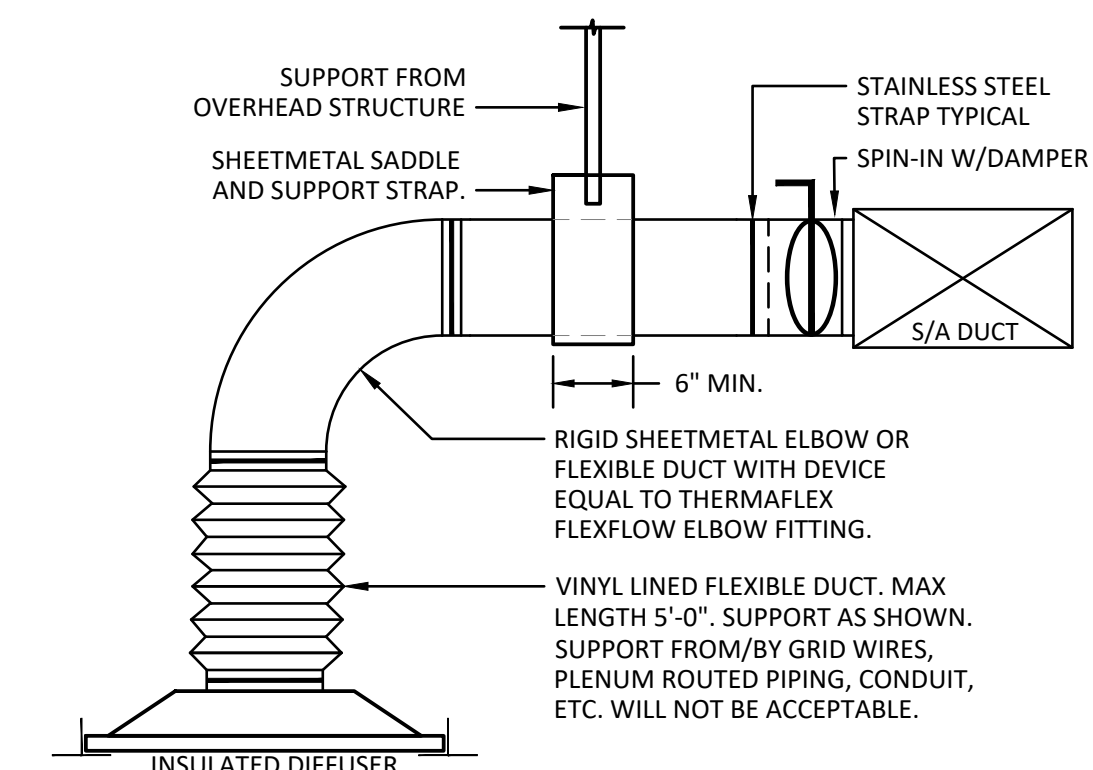
06 ROUND/RECTANGULAR DUCT INSULATION DETAIL
SCALE: NTS



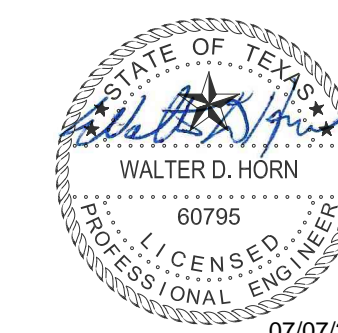
01 HORIZONTAL FAN COIL UNIT DETAIL - SUSPENDED
SCALE: NTS



03 CEILING MOUNTED EXHAUST FAN DETAIL
SCALE: NTS



05 TYPICAL DIFFUSER DETAIL
SCALE: NTS



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BEE COUNTY TAX OFFICE
- RENOVATIONS -
411 E. HOUSTON ST.
BEEVILLE, TX. 78102

MECHANICAL DETAILS

BEE COUNTY OFFICE
105 W. CORPUS CHRISTI ST.
BEEVILLE, TX. 78102

DESIGN INFO:
PROJECT FILE NO.:
BEE COUNTY TAX
DRAWN BY: SEE
CHECKED BY: SEE
DESIGNED BY: SEE
JOB NO.: 10-100208

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DATE	REMARKS
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00/00/00	CONSTRUCTION

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00/00/00	REVISION 2
00/00/00	REVISION 3
00/00/00	REVISION 4

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OUTSIDE AIR CALCULATIONS IMC 2018 TABLE 403.3.1.1							
AHU-1	SUPPLY CFM	OA CFM/PERSON	TOTAL PEOPLE	OA CFM/FT2	EXHAUST CFM	SQUARE FOOTAGE	OA (CFM)
101 CORRIDOR	85	-	-	0.06	0	162	9.72
102 OFFICE	255	5.00	1.3	0.06	0	260	22.1
103 OFFICE	110	5.00	0.54	0.06	0	108	9.18
104 OFFICE	110	5.00	0.54	0.06	0	108	9.18
105 STORAGE	130	5.00	0.314	0.06	0	157	10.99
EXISTING STORAGE	110	5.00	0.44	0.06	0	220	15.4
TOTAL SUPPLY:	800				TOTAL OA REQUIRED:	76.6	
					TOTAL OA PROVIDED:	80.0	

SPLIT SYSTEM AIR CONDITIONING																				
DESIG.	SERVES	FAN				COOLING @ 105° F. AMBIENT					ELECTRIC HEATING				EQUAL TO TRANE MODEL NUMBER	WEIGHT (LBS)	ELECTRICAL			
		CFM	O.A. CFM	ESP (IN)	HP	TOTAL MBH	SENS MBH	EAT DB/WB	LAT DB/WB	SEER	KW @ 240V	NO. OF STAGES	EAT DB	LAT DB			VOLT/ PHASE	FLA	MCA	MOCP
AHU-1	101 CORRIDOR; 102-104 OFFICES; 105 STORAGE; EXISTING STORAGE	800	80	0.3	1/3	22.6	16.5	76.8/65.3	57.3/55.8		7.68	1	64.7	94.9	TEM6A0B24H21	117	230/1	32.0	44	45
CU-1	AHU-1													4TTR4018N1	133	230/1	11.2	14	25	

NOTES:
1) PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT, RETURN AIR FILTER BANK, AND 1" DEEP MERV-8 FILTER.
2) PROVIDE SINGLE POINT POWER CONNECTION TO EACH AIR HANDLING UNIT AND CONDENSING UNIT.
3) PROVIDE ELECTRICAL DISCONNECT FOR EACH AIR HANDLING UNIT AND CONDENSING UNIT.
4) REFER TO MANUFACTURER'S REQUIREMENTS FOR LINESET SIZING.
5) PROVIDE LOW VOLTAGE WIRING BETWEEN CONDENSING UNIT AND AIR HANDLER. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
6) AIR HANDLING UNITS: VARIABLE FAN SPEED.
7) CONDENSING UNITS: VARIABLE COMPRESSOR SPEED.

ELECTRICAL NOTES:
1) N/A

FANS											
DESIG.	SERVES	CONTROL	CFM	SP. IN W.G.	MOTOR HP	ACCESSORIES (SEE BELOW)	EQUAL TO COOK MODEL	ELECTRICAL			
								VOLT/ PHASE	FLA	MCA	MOCP
EF-1	106 STORAGE	CONTROL WITH THERMOSTAT	215	0.25	35W	A-F	GCVF-340	115/1	0.30	0.38	15

ACCESSORIES: (PROVIDE AS NOTED)
(A) - BACKDRAFT DAMPER (E) - 8" ROUND WALL CAP
(B) - ELECTRICALLY COMMUTATED MOTOR (F) - VARI-FLOW
(C) - PRE-WIRED NON-FUSED SERVICE DISCONNECT (F) - 7-DAY PROGRAMMABLE THERMOSTAT - COOLING SETPOINT 80°F
(D) - 8" ROUND DUCT ADAPTOR

ELECTRICAL NOTES:

GRILLES - REGISTERS - DIFFUSERS							
DESIG.	DUTY	TYPE	NECK SIZE (IN)	FACE SIZE (IN)	MAX CFM	MAX NOISE CRITERIA (NC)	EQUAL TO
S1	SUPPLY	MATCH EXISTING	6	24X24	110	25	MATCH EXISTING
S2	SUPPLY	DOOR GRILLE	18X10	-	250	25	TITUS-T-700L
R1	RETURN	MATCH EXISTING	8	24X24	230	25	MATCH EXISTING
R2	RETURN	MATCH EXISTING	10	24X24	400	25	MATCH EXISTING

NOTES:
A) PROVIDE CEILING RADIATION DAMPER AT RATED ASSEMBLIES.
B) COORDINATE FRAME TYPE AND COLOR WITH ARCHITECT'S RCP.

HVAC MATERIALS SCHEDULE		
SYSTEM	MATERIAL	INSULATION VALUE
SUPPLY/RETURN (INDOORS)		R-6
SUPPLY/RETURN (OUTDOORS)	G-90 OR BETTER GALVANIZED SHEET METAL, SEE NOTE 1	R-8 (CLIMATE ZONE 0-4) R-12 (CLIMATE ZONE 5-8)
GENERAL EXHAUST		N/A
SUPPLY/RETURN FLEX DUCT	UL 181 HELICAL SPRING STEEL W/ VINYL FILM	R-6
CONDENSATE DRAIN (INDOORS)	TYPE L COPPER (PLENUM) PVC	R-3
CONDENSATE DRAIN (OUTDOORS)	TYPE L COPPER (PLENUM) PVC	N/A
REFRIGERANT PIPING (SUCTION)	TYPE K COPPER	R-3
REFRIGERANT PIPING (LIQUID)	TYPE K COPPER	N/A

NOTES:
1. LOW PRESSURE DUCT THICKNESS WHEN LARGE DIMENSION IS:
1.a. UP TO 12" - 26 GAUGE
1.b. 13" TO 30" - 24 GAUGE
1.c. 21" TO 54" - 22 GAUGE
2. REFER TO EQUIPMENT MANUFACTURER'S INSTALLATION MANUAL FOR REFRIGERANT PIPING SIZING AND LINE LENGTH LIMITATIONS.
3. NOT ALL SYSTEMS MAY APPEAR IN PROJECT

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MECHANICAL SCHEDULES

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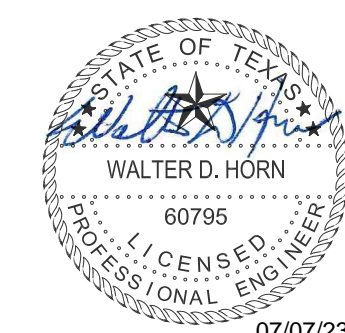
CUSTOMER NAME:
DESIGN INFO:
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DESIGNED BY: SEE
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