26620 FM 1093 Rd

Katy, TX 77494

RENDERING

VICINITY MAP

GENERAL

T-1.00	TITLE SHEET

CIVIL

C1.00	COVER SHEET
C1.01	GENERAL NOTES
C1.02	PAVING, GRADING, AND UTILITY PLAN
C1.03	DRAINAGE AREA MAP AND CALCULATIONS
C1.04	STORM WATER POLLUTION PREVENTION PLAN
C1.05	STORM WATER POLLUTION PREVENTION PLAN DETAIL
C1.06	MISCELLANEOUS DETAILS
C1.07	WATER, STORM, AND SANITARY DETAILS
C1.08	FORT BEND CONCRETE PAVEMENT DETAILS
C1.09	FORT BEND STORM SEWER CONSTRUCTION DETAILS

LANDSCAPE

LP-1	LANDSCAPE PLANTING
LP-2	LANDSCAPE DETAIL

ARCHITECTURAL SITE PLAN

SP-1.00	SITE PLAN
SP-1.10	MONUMENT WALL
SP-2.02	DUMPSTER ELEVATIONS
SP-2.10	SITE DETAILS
SP-2.10.	CONDENSING UNIT SCREEN FENCE
SP-2.20	SITE PLAN DETAILS

ARCHITECTURAL

A-0.00	ACCESSIBILITY ROUTE COMPLIANCE
A-0.10	ACCESIBILITY ELEMENT COMPLIANCE
A-1.10	FLOOR PLAN-FIRST FLOOR
A-1.11	FLOOR PLAN-ANNOTATION
A-1.21	ENLARGED PLAN DETAILS
A-2.00	DOOR AND WINDOW SCHEDULE
A-3.00	INTERIOR PARTITIONS
A-4.00	RCP-FIRST FLOOR
A-4.10	ATTIC PLATFORM
A-5.00	ROOF PLAN
A-5.10	ROOF DETAILS
A-6.00	EXTERIOR BUILDING ELEVATIONS
A-6.10	EXTERIOR ELEVATIONS
A-7.00	BUILDING SECTIONS
A-7.10	BUILDING SECTIONS
A-7.20	BUILDING SECTIONS
A-8.00	WALL SECTIONS
A-8.10	WALL SECTIONS
A-8.11	COLUMN LAY OUT
A-9.00	SECTION DETAILS
A-9.10	STUCCO DETAILS
A-10.00	INTERIOR ELEVATIONS
A-10.01	INTERIOR ELEVATIONS
A-11.00	MILLWORK DETAILS
A-11.01	MILLWORK DETAILS
A-11.02	INTERIOR TRIM/MOLDING
A-12.00	FINISHED FLOOR
A-12.02	RESTROOM ACCESSORIES
A-13.00	POWER PLAN-1ST FLOOR
A-14.00	INTERIOR SIGNAGE
A-14.10	EXTERIOR SIGNAGE
A-14.20	EXTERIOR SIGNAGE

STRUCTURAL

S0.00	GENERAL NOTES
S0.1	GENERAL NOTES
S0.2	GENERAL NOTES
S0.3	TESTING NOTES
S1.01	FOUNDATION PLAN
S2.01	ROOF FRAMING PLAN
S3.01	FOUNDATION DETAILS
S3.02	FOUNDATION DETAILS
S3.03	FOUNDATION DETAILS
S4.01	FRAMING DETAILS
S4.02	FRAMING DETAILS
S4.03	FRAMING DETAILS
S4.04	FRAMING DETAILS

MEP-MECHANICAL

MEP0.01	MEP SITE PLAN
M-101	MECHANCIAL PLAN
M-301	MECHANICAL DETAILS
M-302	MECHANICAL SCHEDULES

MEP-ELECTRICAL

EL-1.01	ELECTRICAL LIGHITNG PLAN
EP1.01	ELECTRICAL POWER PLAN
E-3.01	ELECTRICAL DETAILS
E-3.02	ELECTRICAL DETAILS
E-3.03	ELECTRICAL DETAILS

MEP-PLUMBING

P-0.01	PLUMBING SYMBOL AND ABBREVIATION
P-1.00	PLUMBING PLAN-UNDERSLAB
P-1.01	PLUMBING PLAN
P-3.01	PLUMBING SCHEDULES AND DETAILS
P-3.02	PLUMBING DETAILS
P-3.03	PLUMBING DIAGRAMS
P-3.04	PLUMBING DIAGRAMS

ISSUED FOR PERMIT AND BID

BUILDING CODE AND PROJECT INFORMATION

BUILDING TYPE: VB
SQUARE FOOTAGE: 4,989 SQUARE FEET
OCCUPANCY TYPE: B
OCCUPANT LOAD: 33

SCOPE OF WORK
NEW GROUND UP BANKING BUILDING

BUILDING CODE
2021 IBC
2023 NEC
2015 UPC
2021 IFC
2015 IECC
2015 UMC

PLATTING:
CITY OF HOUSTON AND FORT BEND

PARKING REQUIREMENTS:

FINANCIAL INSTITUTION: 4.0 SPACES / 1000 S.F. (G.F.A.)

REQUIRED: 20 PARKING SPACES
PROVIDED: 35 PARKING SPACES
ADA REQUIRED: 2 SPACES
ADA PROVIDED: 2 SPACES

TABS INFORMATION

TABS2026017567

PROJECT TEAM

ARCHITECT/CONTRACTOR
SLI GROUP
15810 PARK TEN PLACE, SUITE 300
HOUSTON, TEXAS 77084
713-465-4650

STRUCTURAL ENGINEER
CJG Engineers
1111 FM 715
ALVIN, TEXAS 77511
281-939-6787

SURVEYOR
Windrose Surveying & Land Services
5353 W Sam Houston Pkwy N
Houston, TX 77041
713.458.2281

CIVIL ENGINEER
WD Engineering
410 Asbury St
Houston, TX 77007
713.301.4922

MEP ENGINEER
JONES ENGINEERING
9820 WITHTHORN DR
HOUSTON, TX 77084
713-222-7766

LANDSCAPE ARCHITECT
EVERGREEN DESIGN GROUP
10777 WESTHEIMER RD., STE 1100
HOUSTON, TX 77042
800-680-6630

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ARCHITECTURE PLANNING INTERIOR DESIGN
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HOUSTON, TEXAS 77084
713-465-4650
www.sligroup.com

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Shell Federal CREDIT UNION
26620 FM 1093 Rd
Katy, TX 77494

Project Number : 8972

	DATE
ISSUED FOR CLIENT APPROVAL	1/26/26
ISSUED FOR BIDDING	4/13/2026
ISSUED FOR PERMIT	4/13/2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE

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PRINT DATE: 4/14/2026 11:57:39 AM

REGISTERED ARCHITECT THOMAS B. BAKER 14288 STATE OF TEXAS
4.13.26

DRAWING TITLE
TITLE SHEET

DRAWN BY	BY	SHEET NO.
CHECKED BY	BM/SH	T-1.00
APPROVED BY	TB	

C:\Users\16-01-PC\Documents\Shell_Federal_Credit_Union_Central_Fulshear_R2026-3_jbrustmeyer.rvt

SHELL FEDERAL CREDIT UNION
KATY FULSHEAR
26620 FM 1093
KATY, TEXAS 77494

FLOODPLAIN INFORMATION

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), FLOOD INSURANCE RATE MAP (FIRM) FOR FORT BEND COUNTY, TEXAS, MAP NO. 48157C0105L REVISED/DATED APRIL 2, 2014, THE SUBJECT TRACT APPEARS TO LIE WITHIN UNSHADED ZONE "X".

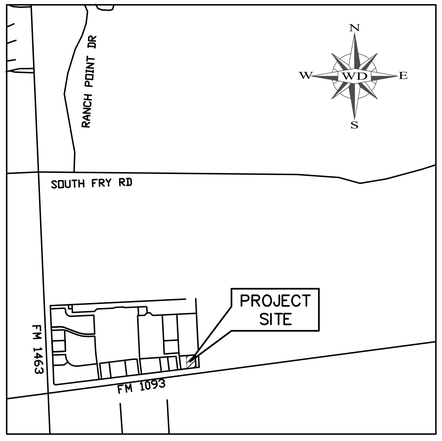
BENCHMARK NOTES

BENCHMARK: HARRIS COUNTY FLOODPLAIN REFERENCE MARK RM NO. 190045 BEING A BRASS DISC STAMPED "190045" LOCATED ON A BRIDGE OVER BUFFALO BAYOU, APPROXIMATELY .5 MILES WEST FROM THE INTERSECTION OF CINCO RANCH BOULEVARD AND WESTHEIMER PARKWAY, PUBLISHED ELEVATION – 115.25.

TBM 3: BEING A BOX CUT ON THE BACK OF A CURB LOCATED FROM THE INTERSECTION OF THE SOUTHBOUND LANES OF WESTHEIMER LAKES NORTH DRIVE AND FARM TO MARKET 1093 ROAD, TRAVEL SOUTHWEST ON FARM TO MARKET 1093 ROAD APPROXIMATELY 1090 FEET, THEN TRAVEL 295 FEET NORTH TO THE SOUTH RIGHT-OF-WAY LINE OF PARK ROW, TO A BOX CUT ON THE BACK OF A CURB JUST NORTH OF THE TACO BELL, ELEVATION – 131.46.

TBM 4: BEING A BOX CUT ON THE BACK OF A CURB LOCATED FROM THE INTERSECTION OF THE SOUTHBOUND LANES OF WESTHEIMER LAKES NORTH DRIVE AND FARM TO MARKET 1093 ROAD, TRAVEL SOUTHWEST ON FARM TO MARKET 1093 ROAD APPROXIMATELY 930 FEET TO A PRIVATE DRIVEWAY, THEN TRAVEL 970 FEET NORTH TO THE BACK OF A CURB OF A CONCRETE MEDIAN, NORTHWEST OF THE XSCAPE MOVIE THEATER, ELEVATION – 132.33.

TBM "AAA": BEING A BOX CUT ON SET ON TOP OF A CONCRETE INLET LOCATED APPROXIMATELY 340 FEET NORTH FROM THE NORTH R.O.W. LINE OF FARM TO MARKET 1093 ROAD, AND 340 FEET EAST FROM THE EAST R.O.W. LINE OF RING ROAD. (SHOWN HEREON), ELEVATION – 132.34.



VICINITY MAP

CITY OF RICHMOND, FORT BEND COUNTY, TEXAS

INDEX OF DRAWINGS

C1.00	COVER SHEET
C1.01	GENERAL NOTES
C1.02	PAVING, GRADING, AND UTILITY PLAN
C1.03	DRAINAGE AREA MAP AND CALCULATIONS
C1.04	STORM WATER POLLUTION PREVENTION PLAN
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10200 OLD KATY ROAD
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04/07/2026

STATE OF TEXAS
WILLIAM DAVIS WILKINSON
85626
LICENSED
PROFESSIONAL ENGINEER

WD Engineering
TBPE NO F-8795
410 ASBURY STREET
HOUSTON, TEXAS 77007
713.301.4922 OFFICE
WDENGINEERING.COM

FORT BEND COUNTY ENGINEER

ENGINEER: _____
J. Stacy Slawinski, P.E.

DATE: _____

THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT COMMENCED IN (1) YEAR FROM DATE OF APPROVAL.

APPROVED: _____
Development Staff

DATE: _____

FORT BEND COUNTY ENGINEERING CONSTRUCTION NOTES

CONSTRUCTION

1. FORT BEND COUNTY MUST BE INVITED TO THE PRE–CONSTRUCTION MEETING.
2. CONTRACTOR SHALL NOTIFY FORT BEND COUNTY ENGINEERING DEPARTMENT 48 HOURS PRIOR TO COMMENCING CONSTRUCTION AND 48 HOUR NOTICE TO ANY CONSTRUCTION ACTIVITY WITHIN THE LIMITS OF THE PAVING AT CONSTRUCTION@FBCTX.GOV.
3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FROM FORT BEND COUNTY PRIOR TO COMMENCING CONSTRUCTION OF ANY IMPROVEMENTS WITHIN COUNTY ROAD RIGHT OF WAYS.
4. ALL PAVING IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FORT BEND COUNTY "RULES, REGULATIONS AND REQUIREMENTS" RELATING TO THE APPROVAL AND ACCEPTANCE OF IMPROVEMENTS IN SUBDIVISIONS AS CURRENTLY AMENDED.
5. ALL ROAD WIDTHS, CURB RADII AND CURB ALIGNMENT SHOWN INDICATES BACK OF CURB.
6. A CONTINUOUS LONGITUDINAL REINFORCING BAR SHALL BE USED IN THE CURBS.
7. ALL CONCRETE PAVEMENT SHALL BE 5½ SACK CEMENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS. TRANSVERSE EXPANSION JOINTS SHALL BE INSTALLED AT EACH CURB RETURN AND AT A MAXIMUM SPACING OF 60 FEET.
8. ALL WEATHER ACCESS TO ALL EXISTING STREETS AND DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
9. 4" X 12" REINFORCED CONCRETE CURB SHALL BE PLACED IN FRONT OF SINGLE FAMILY LOTS ONLY. ALL OTHER AREAS SHALL BE 6" REINFORCED CONCRETE CURB.
10. CURB HEADERS ARE REQUIRED AT CURB CONNECTIONS TO HANDICAP RAMPS, WITH NO CONSTRUCTION JOINT WITHIN 5' OF RAMPS.
11. GUIDELINES ARE SET FORTH IN THE TEXAS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", AS CURRENTLY AMENDED, SHALL BE OBSERVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE FLAGMEN, SIGNING, STRIPING AND WARNING DEVICES, ETC., DURING CONSTRUCTION – BOTH DAY AND NIGHT.
12. ALL R1–1 STOP SIGNS SHALL BE A MINIMUM OF 36"X36" WITH DIAMOND GRADE SHEETING PER TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
13. STREET NAME SIGNAGE SHALL BE ON A 9" HIGH SIGN FLAT BLADE W/REFLECTIVE GREEN BACKGROUND. STREET NAMES SHALL BE UPPER AND LOWERCASE LETTERING WITH UPPERCASE LETTERS OF 6" MINIMUM AND LOWERCASE LETTERS OF 4.5" MINIMUM. THE LETTERS SHALL BE REFLECTIVE WHITE. STREET NAME SIGNS SHALL BE MOUNTED ON STOP SIGN POST.
14. A BLUE DOUBLE REFLECTORIZED BUTTON SHALL BE PLACED AT ALL FIRE HYDRANT LOCATIONS. THE BUTTON SHALL BE PLACED 12 INCHES OFF OF THE CENTERLINE OF THE STREET ON THE SAME SIDE AS THE HYDRANT.
15. THE PROJECT AND ALL PARTS THEREOF SHALL BE SUBJECT TO INSPECTION FROM TIME TO TIME BY INSPECTORS DESIGNATED BY FORT BEND COUNTY. NO SUCH INSPECTIONS SHALL RELIEVE THE CONTRACTOR OF ANY OF ITS OBLIGATIONS HEREUNDER. NEITHER FAILURE TO INSPECT NOR FAILURE TO DISCOVER OR REJECT ANY OF THE WORK AS NOT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, REQUIREMENTS AND SPECIFICATIONS OF FORT BEND COUNTY OR ANY PROVISION OF THIS PROJECT SHALL BE CONSTRUED TO IMPLY AN ACCEPTANCE OF SUCH WORK OR TO RELIEVE THE CONTRACTOR OF ANY OF ITS OBLIGATIONS HEREUNDER.
16. STABILIZED SUBGRADE: DETERMINE THE THICKNESS OF THE STABILIZED SUBGRADE AFTER CURING AND COMPACTION. IF THE SUBGRADE DEPTH IS GREATER THAN THE PROPOSED THICKNESS BY 20% OR MORE, THE CMT LAB MUST PROVIDE VERIFICATION THE PERCENTAGE OF MATERIAL BEING USED TO STABILIZE THE SUBGRADE MEETS OR EXCEEDS PROJECT REQUIREMENTS. TEST RESULTS REQUIRED.
17. CONTRACTOR TO PROVIDE MONTHLY SCHEDULE UPDATES AND WEEKLY LOOK AHEAD
18. ALL DRAINAGE AND DETENTION CAPACITY MUST BE IN PLACE PRIOR TO BEGINNING ANY PAVING ACTIVITIES
19. ALL TURN LANES AND MEDIAN OPENINGS SHALL HAVE THE SAME SURFACE AS THE EXISTING STREET. FROM THE ROW, ALL STREET AND DRIVEWAY CONNECTIONS SHALL HAVE THE SAME SURFACE AS THE EXISTING OR PROPOSED STREET.
20. MINIMUM DEPTH FOR BORES/UTILITIES SHALL BE AS FOLLOWS:
    OPEN DITCH – 3' MIN. BELOW FLOWLINE; 5' MIN. BELOW TOP OF PAVEMENT
    CURBED STREETS – 5' MIN. BELOW TOP OF PAVEMENT

NOTE: FORT BEND COUNTY NOTES SUPERSEDE ANY CONFLICTING NOTES.

PRIVATE UTILITIES

NOTICE
THE CONTRACTOR SHALL CONTACT TEXAS ONE CALL AT (800) 245–4545 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.

CAUTION: TELEPHONE CABLES

THE LOCATION OF TELEPHONE FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.

WHEN TELEPHONE LINE MARKINGS ARE NOT VISIBLE, CALL (800) 245–4545 FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.

WHEN EXCAVATING WITHIN EIGHTEEN (18) IN OF THE INDICATED LOCATION OF TELEPHONE FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON–MECHANIZED EXCAVATION PROCEDURES. WHEN BORING THE CONTRACTOR SHALL EXPOSE THE TELEPHONE FACILITIES.

WHEN TELEPHONE FACILITIES ARE EXPOSED, THE CONTRACTOR SHOULD PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.

CAUTION: UNDERGROUND GAS FACILITIES

LOCATION OF GAS MAIN LINES (TO INCLUDE UNIT GAS TRANSMISSION AND/OR INDUSTRIAL GAS SUPPLY CORPORATION WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. OUR SIGNATURE ON THESE PLANS ONLY INDICATES THAT OUR FACILITIES ARE SHOWN IN APPROXIMATE LOCATION. IT DOES NOT IMPLY THAT A CONFLICT ANALYSIS HAS BEEN MADE.

WHEN GAS PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (800) 245–4545 FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.

WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF GAS FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON–MECHANIZED EXCAVATION PROCEDURES.

WHEN GAS FACILITIES ARE EXPOSED SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

CAUTION: OVERHEAD ELECTRICAL FACILITIES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTEMPTED TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH AND SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED, CALL THE APPROPRIATE OWNING AUTHORITY.

CONTRACTOR SHALL NOTIFY TEXAS ONE CALL AT (800) 245–4545 AND THE CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS (713) 863–1450 A MINIMUM OF 48 HOURS PRIOR TO PROCEEDING WITH ANY WORK IN STREET RIGHT–OF–WAY OR EASEMENTS.

GENERAL WD ENGINEERING NOTES

1. THE CONTRACTOR IS TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN WHAT IS SHOWN ON THESE PLANS AND WHAT EXISTS IN THE FIELD, CONTRACTOR IS TO NOTIFY THE ARCHITECT AND ENGINEER IMMEDIATELY.

2. WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING ARE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE DOCUMENTS – "STANDARD CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTION SYSTEM, WATER LINES, STORM DRAINAGE, AND STREET PAVING", "STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEM, WATER LINES, STORM DRAINAGE, AND STREET PAVING" AND THE "INFRASTRUCTURE DESIGN MANUAL" PUBLISHED BY THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING.

3. EXISTING UTILITY INFORMATION SHOWN IS NOT GUARANTEED TO BE ACCURATE AND ALL INCLUSIVE. ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND SHOULD BE VERIFIED BY THE CONTRACTOR IN ADVANCE OF CONSTRUCTION. CONTRACTOR SHALL VERIFY THE INVERT, AND/OR FLOW LINE ELEVATIONS OF POINTS OF CONNECTIONS PRIOR TO THE COMMENCEMENT OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND OTHER FACILITIES. ANY CONFLICT OR DISCREPANCY DISCOVERED MUST IMMEDIATELY BE BROUGHT TO THE ENGINEER'S ATTENTION.

4. CONTRACTOR SHALL NOTIFY TEXAS ONE CALL AT (800) 245–4545 A MINIMUM OF 48 HOURS PRIOR TO PROCEEDING WITH ANY EXCAVATION.

5. THE CONTRACTOR IS REQUIRED TO COMPLY WITH THE LATEST EDITION OF THE OSHA REGULATIONS AND THE STATE OF TEXAS LAWS CONCERNING EXCAVATION.

6. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONG THE AREA OF EXCAVATION.

7. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE TO EXISTING WATER, WASTEWATER, STORM WATER LINES AND TRAFFIC CONTROL DEVICES. ALL DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING'S "STANDARD CONSTRUCTION SPECIFICATIONS" REFERENCED ABOVE, AT NO COST TO OWNER.

8. ANY DAMAGE TO ANY OF THE EXISTING PAVEMENT AND/OR UTILITIES MUST BE REPAIRED IMMEDIATELY. THE CONTRACTOR MUST NOTIFY THE APPROPRIATE UTILITY OWNER, WHO WILL MAKE THE REPAIRS AT THE CONTRACTOR'S EXPENSE.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SHIPPING OF ALL MATERIALS. THE LOADING AND UNLOADING OF ALL PIPE, VALVES, HYDRANTS, MANHOLES AND OTHER ACCESSORIES SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDED PRACTICES AND SHALL BE AT ALL TIMES PERFORMED WITH CARE TO AVOID ANY DAMAGE TO THE MATERIAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE SUCH MATERIAL AT THE POINT OF DELIVERY AND TO REJECT ALL DEFECTIVE MATERIAL. THE DEFECTIVE MATERIAL MUST BE REPLACED WITH SOUND MATERIAL.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORAGE OF MATERIAL AND EQUIPMENT IN A SAFE AND WORKMANLIKE MANNER TO PREVENT INJURIES, DURING AND AFTER WORKING HOURS UNTIL PROJECT COMPLETION. THERE SHALL BE NO PAYMENT MADE TO CONTRACTOR FOR STORED MATERIAL.

11. THE WORK AREA SHALL BE BARRICADED AND ILLUMINATED DURING DARKNESS AND PERIODS OF INACTIVITY, WHEN IN AN AREA OF DIRECT PUBLIC ACCESS.

12. ACCESS TO ALL EXISTING STREETS AND DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.

13. GUIDELINES SET FORTH IN THE TEXAS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", AS CURRENTLY AMENDED, SHALL BE OBSERVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE FLAG MEN, SIGNING, STRIPING AND WARNING DEVICES, ETC., DURING CONSTRUCTION – BOTH DAY AND NIGHT.

14. CONTRACTOR SHALL NOT PERFORM ANY WORK WITHIN AREA DELINEATED AS WETLANDS UNTIL ALL NECESSARY PERMITS ARE APPROVED.

15. NO CONNECTIONS SHALL BE MADE TO EXISTING WATER LINES OR SANITARY SEWERS UNTIL ALL PROPOSED LINES HAVE BEEN THOROUGHLY CLEANED, TESTED AND APPROVED BY THE ENGINEER.

16. FINAL APPROVAL BY OWNER'S REPRESENTATIVE OF GRADING ADJACENT TO BUILDING REQUIRED PRIOR TO INSTALLATION OF LANDSCAPING MATERIALS. COORDINATE WITH LANDSCAPE ARCHITECT TO ENSURE POSITIVE DRAINAGE.

17. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY.

18. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE AND POSITIVE DRAINAGE AT ALL TIMES DURING CONSTRUCTION OF PROPOSED FACILITIES. NATURAL GROUND ADJACENT TO UTILITY TRENCH EXCAVATION TO BE GRUBBED PRIOR TO REPLACEMENT OF EXCESS TRENCH MATERIAL. NO SEPARATE PAYMENT.

19. IN ORDER TO COMPLY WITH TEXAS ACCESSIBILITY STANDARDS, THE CONTRACTOR SHALL ENSURE THAT THE SLOPE OF SIDEWALK AND/OR PAVING WITHIN THE A.D.A. PATH DOES NOT EXCEED 2% IN ANY DIRECTION EXCEPT A.D.A. APPROVED RAMPS.

20. SURFACE RESTORATION: AT THE END OF ALL CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL RESTORE THE EXISTING FACILITIES AND ALL SPOIL MATERIAL, VEGETATION & DEBRIS SHALL BE HAULED AND DISPOSED OF OFF SITE, I.E., THE PROPERTY, SHALL BE MADE EQUAL TO OR BETTER THAN EXISTING SITE CONDITION PRIOR TO CONSTRUCTION.

21. CONTRACTOR SHALL HYDROMULCH SEED ALL DISTURBED AREAS UNLESS OTHERWISE SHOWN ON ARCHITECTS/LANDSCAPE ARCHITECTS PLANS.

22. CONDITION OF THE ROAD AND/OR RIGHT–OF–WAY, THROUGHOUT CONSTRUCTION OF THIS PROJECT, SHALL BE AS GOOD OR BETTER THAN CONDITION PRIOR TO STARTING WORK BY CONTRACTOR.

23. CONTRACTOR SHALL PREPARE A SET OF "AS–BUILT" DRAWINGS SHOWING ANY FIELD CHANGES MADE TO THE APPROVED ENGINEERING PLANS AND SUBMIT TO THE DESIGN CONSULTANT FOR SUBMISSION TO CITY ENGINEER.

24. IF THE CONSTRUCTION DOES NOT BEGIN WITHIN A YEAR AFTER THE PLANS HAVE BEEN SIGNED, NEW SIGNATURES MUST BE OBTAINED AND LETTERS OF AVAILABILITY MUST BE UPDATED.

25. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING PUBLIC AND PRIVATE UTILITIES THAT HAVE OR MAY HAVE ANY EFFECT ON THE PROPOSED IMPROVEMENTS BEFORE ANY WORK COMMENCES. THE INSTALLATION OF ALL GRAVITY FLOW PIPES SHALL BEGIN AT THE OUTFALL OR CONNECTION TO THE EXISTING SYSTEM AND PROCEED UPSTREAM. IF ANY DISCREPANCY FROM THE PLAN IS FOUND, THE CONTRACTOR IS TO NOTIFY WD ENGINEERING BEFORE PROCEEDING FURTHER.

26. ALL EXISTING UTILITIES, CURBS, RETAINING WALLS, BUILDINGS, ETC. ARE PROPOSED TO BE DEMOLISHED AND SITE TO BE SCRAPED CLEAN. IT MAY BE NECESSARY FOR CONTRACTOR TO VERIFY FINAL GRADES AND CONDITION OF SITE PRIOR TO START OF CONSTRUCTION.

PAVING

1. GUIDELINES SET FORTH IN THE TEXAS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", AS CURRENTLY AMENDED, SHALL BE OBSERVED.
2. EXISTING PAVEMENTS, CURBS, SIDEWALKS AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO FORT BEND COUNTY STANDARDS.
3. PAVING CONSTRUCTION SHALL BE IN ACCORDANCE WITH FORT BEND COUNTY STANDARDS AND CIVIL DETAIL SHEETS AND PER THE SOILS REPORT.
4. CONTRACTOR SHALL BLOCK OUT (SQUARE) AROUND ALL INLETS AND MANHOLES IN PROPOSED PAVING.
5. REFER TO GRADING PLAN FOR PAVING THICKNESSES. SEE DETAIL SHEET AND GEOTECH REPORT FOR TYPICAL SECTIONS AND REINFORCING DETAIL.
6. EXPANSION JOINT SHALL BE PLACED AT THE END OF EACH CURB RETURN AND AS SPECIFIED IN THE GEOTECH REPORT.

WATER LINE

1. WATER MAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING STANDARD CONSTRUCTION SPECIFICATIONS DATED OCTOBER 2002 WITH LATEST ADDENDA AND AMENDMENTS THERETO.

2. SANITARY PRECAUTIONS MUST BE TAKEN DURING WATER LINE CONSTRUCTION, AS CALLED FOR BY AWWA STANDARDS. PRECAUTIONS INCLUDE KEEPING PIPE CLEAN AND CAPPING OR OTHERWISE EFFECTIVELY SEALING OPEN PIPE ENDS TO EXCLUDE INSECTS, ANIMALS OR OTHER SOURCES OF CONTAMINATION FROM UNFINISHED PIPE LINES AT TIMES WHEN CONSTRUCTION IS NOT IN PROGRESS.

3. ALL WATER LINES TO BE DISINFECTED IN CONFORMANCE WITH AWWA C–651. A MINIMUM OF ONE BACTERIOLOGICAL SAMPLE SHALL BE COLLECTED FOR EACH 1,000 FEET OF COMPLETED WATER LINE, OR FRACTION THEREOF, TO CHECK EFFICIENCY OF DISINFECTION PROCEDURES AND SHALL BE REPEATED IF CONTAMINATION PERSISTS.

4. ALL FLANGES BELOW GRADE SHALL BE INSULATED.

5. ALL WATERLINES SHALL BE ENCASED IN BANK SAND AT LEAST 12" ABOVE THE PIPE. COST OF BANK SAND TO BE INCLUDED IN THE UNIT PRICE OF WATERLINE.

6. ALL WATER LINES SHALL BE BEDDED AND BACKFILLED IN ACCORDANCE WITH CITY OF HOUSTON WATER DWG. NO. 02317–04.

7. HYDROSTATIC TESTING: ALL WATER PIPE SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH AWWA STANDARDS. LEAKAGE SHALL BE DEFINED AS THE QUANTITY OF WATER THAT MUST BE SUPPLIED INTO THE NEWLY LAID PIPE OR ANY VALVED SECTION THEREOF, TO MAINTAIN PRESSURE WITHIN 5 P.S.I. OF THE SPECIFIED TEST PRESSURE AFTER THE PIPE HAS BEEN FILLED WITH WATER AND THE AIR HAS BEEN EXPELLED. THE TEST PRESSURE SHALL BE EITHER A MINIMUM OF 125 P.S.I.G. OR 1.5 TIMES THE MAXIMUM DESIGN PRESSURE WHICHEVER IS LARGER. THE MAXIMUM LEAKAGE SHALL BE CALCULATED USING THE FORMULA AS FOLLOWS:

WHERE L = (S)(D)(P^1/2)/133,200

L = ALLOWABLE LEAKAGE IN GAL./HR.
S = LENGTH OF PIPE TESTED IN FEET
D = INSIDE DIAMETER OF PIPE IN INCHES S
P = PRESSURE IN POUNDS PER SQUARE INCH (GAUGE)

8. ALL WATER PIPE AND RELATED PRODUCTS MUST CONFORM TO ANSI/NSF STANDARD 61.

9. 4" THRU 12" WATER LINES SHALL BE P.V.C. CLASS 150, DR–18, AWWA C–900 AND 1" THRU 3" WATER LINES SHALL BE SCHEDULE 40 P.V.C..

10. 4" THRU 12" FITTINGS SHALL BE CEMENT MORTAR LINED COMPACT DUCTILE IRON PRESSURE FITTINGS PER ANSI A21.53 OR PUSH ON FITTINGS PER ANSI A21.10 PRESSURE RATED AT 250 P.S.I.G. CONFORMING TO THE REQUIREMENTS OF CITY OF HOUSTON STANDARD SPECIFICATION SECTION 02501–DUCTILE IRON PIPE AND FITTINGS.

11. ALL WATER LINES UNDER PROPOSED OR FUTURE PAVING AND TO A POINT ONE (1) FOOT BACK OF ALL PROPOSED OR FUTURE CURBS SHALL BE ENCASED IN BANK SAND TO 12" OVER PIPE AND BACKFILLED WITH BANK SAND TO THE BOTTOM OF THE PAVEMENT SUBGRADE.

12. ALL WATER LINES TO HAVE 4' MINIMUM COVER TO FINISHED GRADE AND MINIMUM 12" CLEAR TO OTHER UTILITIES AT CROSSINGS UNLESS OTHERWISE NOTED ON PLANS.

13. CONTRACTOR SHALL PROVIDE FOR A MINIMUM HORIZONTAL CLEARANCE OF 9' (NINE FEET) BETWEEN WATER LINES AND SANITARY SEWER MANHOLES AND LINES.

14. CENTER OF FIRE HYDRANT TO BE LOCATED 3'–0" FROM BACK OF CURB.

15. UTILITY CONTRACTOR TO TURN FIRE HYDRANTS AND MAKE ALL FINAL ADJUSTMENTS AFTER COMPLETION OF PAVING. NO SEPARATE PAY.

16. "W.L.E." INDICATES "WATER LINE EASEMENT"

GEOTECHNICAL

1. ALL GRADING/BACKFILL/COMPACTION SHALL BE IN ACCORDANCE WITH THE SOILS REPORT AND ANY ADDENDUMS THERETO. SOILS REPORT SHALL BE OBTAINED FROM OWNER.

2. EARTH BACKFILL SHALL BE MADE BY MECHANICAL MEANS TO PRODUCE A DENSITY EQUAL TO THAT OF SURROUNDING UNDISTURBED SOIL.

3. ALL AREAS TO BE FILLED ARE TO BE FREE OF VEGETATION, DEBRIS, PONDING WATER, LOOSE SOILS, MUD & MUCK. CLEARING, GRUBBING AND STRIPPING OF SITE SHALL BE PER GEOTECHNICAL REPORT.

4. ALL FILL SHALL BE COMPACTED IN 8" LIFTS, 95% STANDARD PROCTOR DENSITY.

5. THE BUILDING AND PAVEMENT AREAS SHOULD BE CLEARED OF ALL PAVEMENT COMPONENTS AND ANY OTHER DEBRIS. ALL UTILITIES AND ASSOCIATED BEDDING MATERIAL THAT ARE PLANNED TO BE ABANDONED SHOULD BE COMPLETELY REMOVED FROM PROPOSED CONSTRUCTION AREAS. THE LOOSENED SOILS SHOULD BE MOISTURE CONDITIONED IF NECESSARY AND COMPACTED TO AT LEAST 95 PERCENT OF THE STANDARD PROCTOR (ASTM D 698) MAXIMUM DRY DENSITY TO WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT. THE EXPOSED SOIL SUBGRADE AREA SHOULD BE PROOF ROLLED WITH A PNEUMATIC ROLLER TO DETECT WEAK AREAS ONCE FINAL SUBGRADE ELEVATIONS HAVE BEEN ACHIEVED THROUGHOUT THE SITE. WEAK AREAS DETECTED DURING PROOF ROLLING, AS WELL AS ZONES OF DEBRIS AND ORGANICS SHOULD BE REMOVED AND REPLACED WITH SOILS EXHIBITING SIMILAR CLASSIFICATIONS, MOISTURE CONTENT, AND DENSITY AS THE ADJACENT IN–SITU SOILS. SUBSEQUENT TO PROOF ROLLING, AND JUST PRIOR TO PLACEMENT OF FILL, THE EXPOSED SUBGRADE SHOULD BE MOISTURE CONDITIONED AND COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DENSITY (ASTM D 698) WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT.
GRADE ADJUSTMENTS WITHIN THE BUILDING AREA SHOULD BE ACCOMPLISHED WITH SELECT FILL COMPOSED OF CLEAN, SANDY CLAY (NOT SILTY) WITH A PLASTICITY INDEX RANGING BETWEEN 10 AND 20 PERCENT. ALL SELECT FILL SHOULD BE PLACED ON PREPARED SURFACES IN LIFTS NOT TO EXCEED EIGHT INCHES LOOSE MEASURE, WITH COMPACTED THICKNESS NOT TO EXCEED SIX INCHES. THE SELECT FILL SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE ASTM D 698 MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN 2 PERCENT OF OPTIMUM.
IN PAVEMENT AREAS, ON–SITE SOILS MAY BE CONSIDERED FOR GRADE ADJUSTMENTS PROVIDED THEY ARE FREE OF ORGANICS AND DEBRIS. THE ON–SITE SOILS SHOULD BE MOISTURE ADJUSTED TO WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT, AND COMPACTED TO AT LEAST 95 PERCENT OF THE STANDARD PROCTOR (ASTM D 698) MAXIMUM DRY DENSITY.

6. REFERENCE SOILS REPORT PREPARED FOR THIS PROJECT FOR MINIMUM PAVING REQUIREMENTS. IF A DISCREPANCY EXISTS BETWEEN GEOTECHNICAL REPORT REQUIREMENTS AND REQUIREMENTS SHOWN HEREIN, CONTRACTOR SHALL USE THE MORE STRINGENT REQUIREMENTS.

STORM SEWERS

1. STORM SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF HOUSTON "STANDARD CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING" OCTOBER, 2002 ISSUE, AS CURRENTLY AMENDED.

2. STORM SEWERS SHALL BE INSTALLED, BEDDED, AND BACKFILLED IN ACCORDANCE WITH CITY OF HOUSTON DRAWINGS NOS. 02317–02, 02317–03, 02317–05, 02317–06 & 02317–07 AS APPLICABLE UNLESS OTHERWISE SHOWN ON DRAWINGS.

3. ALL STORM SEWER MANHOLES SHALL BE CONSTRUCTED PER CITY OF HOUSTON DRAWING NO. 02081–01, 02081–02, 02081–03, 02081–04 OR 02081–05.

4. ALL PROPOSED STORM SEWER STRUCTURES SHALL BE REQUIRED TO HAVE A ONE (1) FOOT BASE CONSISTING OF COMPACTED CEMENT STABILIZED SAND (1–1/2 SACK CEMENT/C.Y.).

5. ALL PROPOSED PIPE STUB–OUTS FROM MANHOLES OR INLETS ARE TO BE PLUGGED WITH 8" BRICK WALLS UNLESS OTHERWISE NOTED.

6. STORM SEWER PIPE USED FOR CONNECTION TO STORM SEWER IN PUBLIC RIGHT–OF–WAY SHALL BE REINFORCED CONCRETE PIPE ASTM C–76, CLASS III, AND SHALL EXTEND TO FIRST INLET OR MANHOLE. ALL OTHER PRIVATE STORM SEWERS SHALL BE H.D.P.E. HANCOR SURE–LOK F477 OR APPROVED EQUAL AND BEDDED WITH CEMENT STABILIZED SAND PER VENDOR REQUIREMENTS. EMBEDMENT TO BE A MINIMUM OF 1' AROUND ENTIRE PIPE. PIPE GRADES ARE BASED ON CONCRETE PIPE TO PRODUCE THREE (3) FPS MINIMUM VELOCITY.

7. CONCRETE PIPE SHALL BE INSTALLED USING RUBBER GASKET JOINTS ONLY CONFORMING TO ASTM C443.

8. ALL SEWERS UNDER PROPOSED OR FUTURE PAVEMENT AND TO A POINT ONE (1) FOOT BACK OF ALL PROPOSED OR FUTURE CURBS SHALL BE BACKFILLED WITH 1 1/2 SACK CEMENT/C.Y. STABILIZED SAND TO THE BOTTOM OF THE PAVEMENT SUBGRADE. THE REMAINING DEPTH OF TRENCH SHALL BE BACKFILLED WITH SUITABLE EARTH MATERIAL IN 8 INCH LIFTS, WITH TESTS TAKEN AT 100 FOOT INTERVALS ON EACH LIFT, AND MECHANICALLY COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST (ASTM DESIGNATION D–698/AASHTO T99). MOISTURE CONTENT OF BACKFILL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CEMENT– STABILIZED SAND SPECIFICATION ASTM C33, LATEST EDITION.

9. CULVERT TO BE SIZED AND GRADE SET BY CONTRACTOR IF NOT IDENTIFIED, ENGINEER APPROVAL REQUIRED PRIOR TO PLACEMENT.

10. "STM. S. E." INDICATES "STORM SEWER EASEMENT."

SANITARY SEWERS

1. ALL SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF HOUSTON "STANDARD CONSTRUCTION SPECIFICATION FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING" OCTOBER, 2002 ISSUE AND ALL CURRENT AMENDMENTS THERETO AND BE SUBJECT TO A STANDARD EXFILTRATION TEST. TESTS ARE TO BE PERFORMED ON THE TOTAL FOOTAGE OF SEWER LINE INCLUDED IN THE PROJECT. REQUIREMENTS OF TEXAS ADMINISTRATIVE CODE, TITLE 30 CHAPTER 317, "DESIGN CRITERIA FOR SEWERAGE SYSTEMS" SHALL GOVERN WHERE CONFLICTS EXIST EXCEPT WHERE CITY REQUIREMENTS ARE OF HIGHER STANDARDS.

2. ALL MANHOLES ARE TO BE PER CITY OF HOUSTON DWG. NO. 02082–01, 02082–02, 02082N–02, 02082–03, AND 02082N–03 UNLESS OTHERWISE NOTED.

3. SANITARY SEWERS MANHOLES WILL HAVE BEDDING AND BACKFILL PER CITY OF HOUSTON DWG. NO. 02317–08 UNLESS OTHERWISE NOTED.

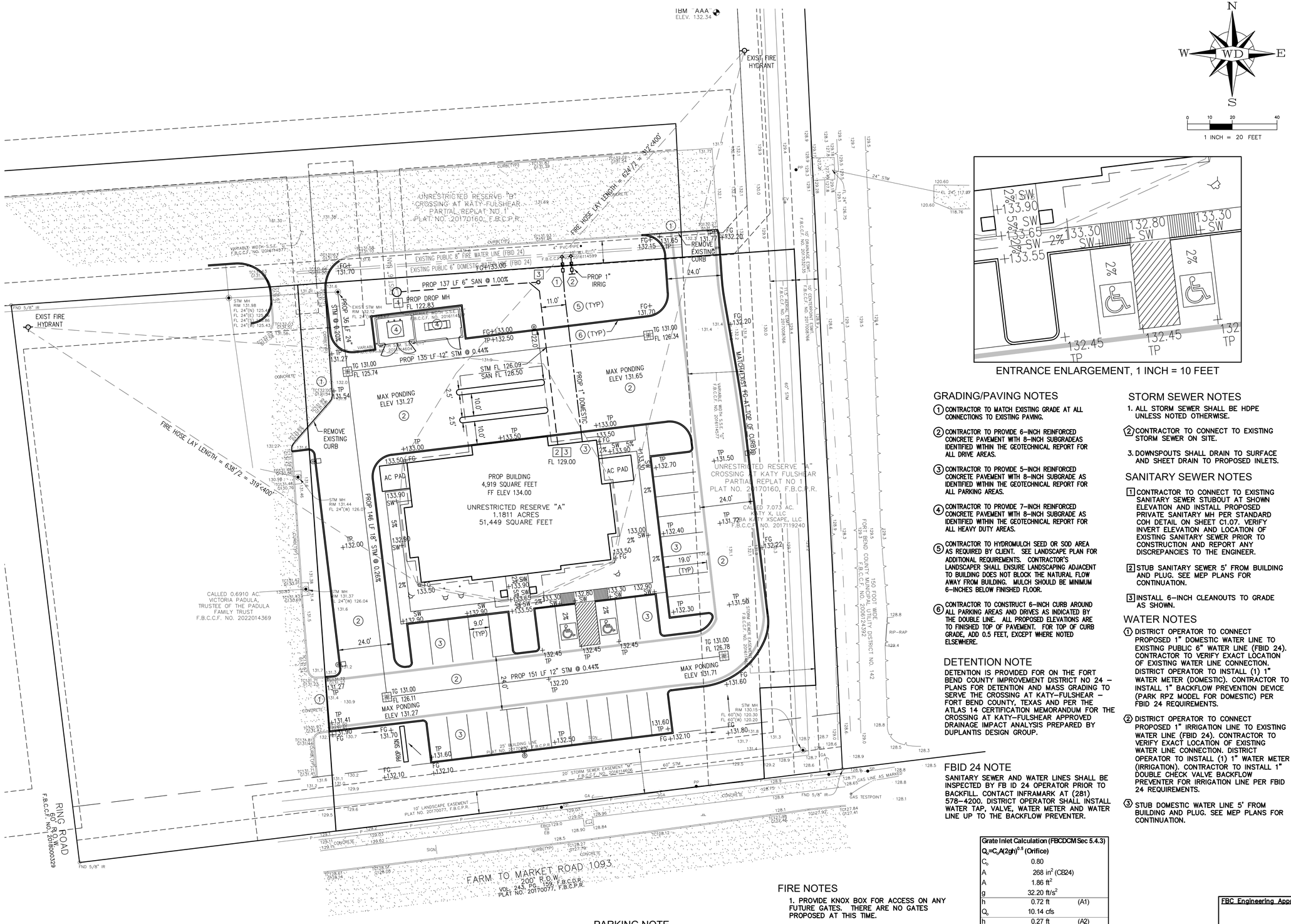
4. SANITARY SEWER PIPE TO BE SDR 26 P.V.C. PIPE MEETING ASTM SPECIFICATION D3034 WITH RUBBER GASKET JOINTS, UNLESS OTHERWISE NOTED.

5. SDR 26 P.V.C. PIPE USES "FULL BODIED" SDR 26 P.V.C. FITTINGS WITH APPROPRIATE ADAPTERS. AWWA C–900 DR–18 P.V.C. PIPE USES EITHER AWWA C900 DR–18 P.V.C. FITTINGS OR D.I.P. FITTINGS. SDR–26 P.V.C. PIPE SHALL HAVE A CELL CLASSIFICATION OF 12364–B AS DEFINED IN ASTM D–1784.

6. ALL SDR P.V.C. PIPE IS TO HAVE D.I.P. SIZE O.D. AND RUBBER GASKET BELL–AND–SPIGOT TYPE JOINT ENDS.

7. ALL SANITARY SEWER LINES UNDER PROPOSED OR FUTURE PAVEMENT AND TO A POINT ONE (1) FOOT BACK OF ALL PROPOSED OR FUTURE CURBS SHALL HAVE BEDDING PER CITY OF HOUSTON DWG. NO. 02317–01, 02317–02, OR 02317–03 AS APPLICABLE, WITH 1 1/2 SACK CEMENT/C.Y. STABILIZED SAND BACKFILL UP TO THE BOTTOM OF THE PAVEMENT SUBGRADE. 100 P.S.I. PERFORMANCE RESULTS ARE STILL REQUIRED.

8. ALL SAN



ENTRANCE ENLARGEMENT, 1 INCH = 10 FEET

GRADING/PAVING NOTES

1. CONTRACTOR TO MATCH EXISTING GRADE AT ALL CONNECTIONS TO EXISTING PAVING.
2. CONTRACTOR TO PROVIDE 6-INCH REINFORCED CONCRETE PAVEMENT WITH 8-INCH SUBGRADEAS IDENTIFIED WITHIN THE GEOTECHNICAL REPORT FOR ALL DRIVE AREAS.
3. CONTRACTOR TO PROVIDE 5-INCH REINFORCED CONCRETE PAVEMENT WITH 8-INCH SUBGRADE AS IDENTIFIED WITHIN THE GEOTECHNICAL REPORT FOR ALL PARKING AREAS.
4. CONTRACTOR TO PROVIDE 7-INCH REINFORCED CONCRETE PAVEMENT WITH 8-INCH SUBGRADE AS IDENTIFIED WITHIN THE GEOTECHNICAL REPORT FOR ALL HEAVY DUTY AREAS.
5. CONTRACTOR TO HYDROMULCH SEED OR SOD AREA AS REQUIRED BY CLIENT. SEE LANDSCAPE PLAN FOR ADDITIONAL REQUIREMENTS. CONTRACTOR'S LANDSCAPER SHALL ENSURE LANDSCAPING ADJACENT TO BUILDING DOES NOT BLOCK THE NATURAL FLOW AWAY FROM BUILDING. MULCH SHOULD BE MINIMUM 6-INCHES BELOW FINISHED FLOOR.
6. CONTRACTOR TO CONSTRUCT 6-INCH CURB AROUND ALL PARKING AREAS AND DRIVES AS INDICATED BY THE DOUBLE LINE. ALL PROPOSED ELEVATIONS ARE TO FINISHED TOP OF PAVEMENT. FOR TOP OF CURB GRADE, ADD 0.5 FEET, EXCEPT WHERE NOTED ELSEWHERE.

DETENTION NOTE

DETENTION IS PROVIDED FOR ON THE FORT BEND COUNTY IMPROVEMENT DISTRICT NO 24 – PLANS FOR DETENTION AND MASS GRADING TO SERVE THE CROSSING AT KATY-FULSHEAR – FORT BEND COUNTY, TEXAS AND PER THE ATLAS 14 CERTIFICATION MEMORANDUM FOR THE CROSSING AT KATY-FULSHEAR APPROVED DRAINAGE IMPACT ANALYSIS PREPARED BY DUPLANTIS DESIGN GROUP.

FBID 24 NOTE

SANITARY SEWER AND WATER LINES SHALL BE INSPECTED BY FB ID 24 OPERATOR PRIOR TO BACKFILL. CONTACT INFRAMARK AT (281) 578-4200. DISTRICT OPERATOR SHALL INSTALL WATER TAP, VALVE, WATER METER AND WATER LINE UP TO THE BACKFLOW PREVENTER.

STORM SEWER NOTES

1. ALL STORM SEWER SHALL BE HDPE UNLESS NOTED OTHERWISE.
2. CONTRACTOR TO CONNECT TO EXISTING STORM SEWER ON SITE.
3. DOWNSPOUTS SHALL DRAIN TO SURFACE AND SHEET DRAIN TO PROPOSED INLETS.

SANITARY SEWER NOTES

1. CONTRACTOR TO CONNECT TO EXISTING SANITARY SEWER STUBOUT AT SHOWN ELEVATION AND INSTALL PROPOSED PRIVATE SANITARY MH PER STANDARD COH DETAIL ON SHEET C1.07. VERIFY INVERT ELEVATION AND LOCATION OF EXISTING SANITARY SEWER PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
2. STUB SANITARY SEWER 5' FROM BUILDING AND PLUG. SEE MEP PLANS FOR CONTINUATION.
3. INSTALL 6-INCH CLEANOUTS TO GRADE AS SHOWN.

WATER NOTES

1. DISTRICT OPERATOR TO CONNECT PROPOSED 1" DOMESTIC WATER LINE TO EXISTING PUBLIC 6" WATER LINE (FBID 24). CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING WATER LINE CONNECTION. DISTRICT OPERATOR TO INSTALL (1) 1" WATER METER (DOMESTIC). CONTRACTOR TO INSTALL 1" BACKFLOW PREVENTION DEVICE (PARK RPZ MODEL FOR DOMESTIC) PER FBID 24 REQUIREMENTS.
2. DISTRICT OPERATOR TO CONNECT PROPOSED 1" IRRIGATION LINE TO EXISTING WATER LINE (FBID 24). CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING WATER LINE CONNECTION. DISTRICT OPERATOR TO INSTALL (1) 1" WATER METER (IRRIGATION). CONTRACTOR TO INSTALL 1" DOUBLE CHECK VALVE BACKFLOW PREVENTER FOR IRRIGATION LINE PER FBID 24 REQUIREMENTS.
3. STUB DOMESTIC WATER LINE 5' FROM BUILDING AND PLUG. SEE MEP PLANS FOR CONTINUATION.

PARKING NOTE

1. PARKING SHALL BE CONCRETE AND SHALL NOT PERMIT WIND OR WATER BORNE EROSION.

FIRE NOTES

1. PROVIDE KNOX BOX FOR ACCESS ON ANY FUTURE GATES. THERE ARE NO GATES PROPOSED AT THIS TIME.

FIRE LEGEND

DESIGNATED FIRE LANE STRIPED AREA

Grate Inlet Calculation (FBCDCM Sec 5.4.3)

$Q_o = C_o A (2gh)^{0.5}$ (Orifice)

C_o	0.80	
A	268 in² (CB24)	
A	1.86 ft²	
g	32.20 ft/s²	
h	0.72 ft	(A1)
Q_o	10.14 cfs	
h	0.27 ft	(A2)
Q_o	6.21 cfs	
h	0.65 ft	(B1)
Q_o	9.63 cfs	
h	0.27 ft	(B2)
Q_o	6.21 cfs	

FBC Engineering Approval

FLOODPLAIN INFORMATION

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), FLOOD INSURANCE RATE MAP (FIRM) FOR FORT BEND COUNTY, TEXAS, MAP NO. 48157C0105L REVISED/DATED APRIL 2, 2014, THE SUBJECT TRACT APPEARS TO LIE WITHIN UNSHADED ZONE "X".

BENCHMARK NOTES

BENCHMARK: HARRIS COUNTY FLOODPLAIN REFERENCE MARK RM NO. 190045 BEING A BRASS DISC STAMPED "190045" LOCATED ON A BRIDGE OVER BUFFALO BAYOU, APPROXIMATELY .5 MILES WEST FROM THE INTERSECTION OF CINCO RANCH BOULEVARD AND WESTHEIMER PARKWAY, PUBLISHED ELEVATION – 115.25.

TBM 3: BEING A BOX CUT ON THE BACK OF A CURB LOCATED FROM THE INTERSECTION OF THE SOUTHBOUND LANES OF WESTHEIMER LAKES NORTH DRIVE AND FARM TO MARKET 1093 ROAD, TRAVEL SOUTHWEST ON FARM TO MARKET 1093 ROAD APPROXIMATELY 1090 FEET, THEN TRAVEL 295 FEET NORTH TO THE SOUTH RIGHT-OF-WAY LINE OF PARK ROW, TO A BOX CUT ON THE BACK OF A CURB JUST NORTH OF THE TACO BELL, ELEVATION – 131.46.

TBM 4: BEING A BOX CUT ON THE BACK OF A CURB LOCATED FROM THE INTERSECTION OF THE SOUTHBOUND LANES OF WESTHEIMER LAKES NORTH DRIVE AND FARM TO MARKET 1093 ROAD, TRAVEL SOUTHWEST ON FARM TO MARKET 1093 ROAD APPROXIMATELY 930 FEET TO A PRIVATE DRIVEWAY, THEN TRAVEL 970 FEET NORTH TO THE BACK OF A CURB OF A CONCRETE MEDIAN, NORTHWEST OF THE XSCAPE MOVIE THEATER, ELEVATION – 132.33.

TBM "AAA": BEING A BOX CUT ON SET ON TOP OF A CONCRETE INLET LOCATED APPROXIMATELY 340 FEET NORTH FROM THE NORTH R.O.W. LINE OF FARM TO MARKET 1093 ROAD, AND 340 FEET EAST FROM THE EAST R.O.W. LINE OF RING ROAD. (SHOWN HEREON), ELEVATION – 132.34.

ISSUE FOR BID 04/07/2026

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PAVING, GRADING, AND UTILITY PLAN

C1.02

Date: Apr 07, 2026
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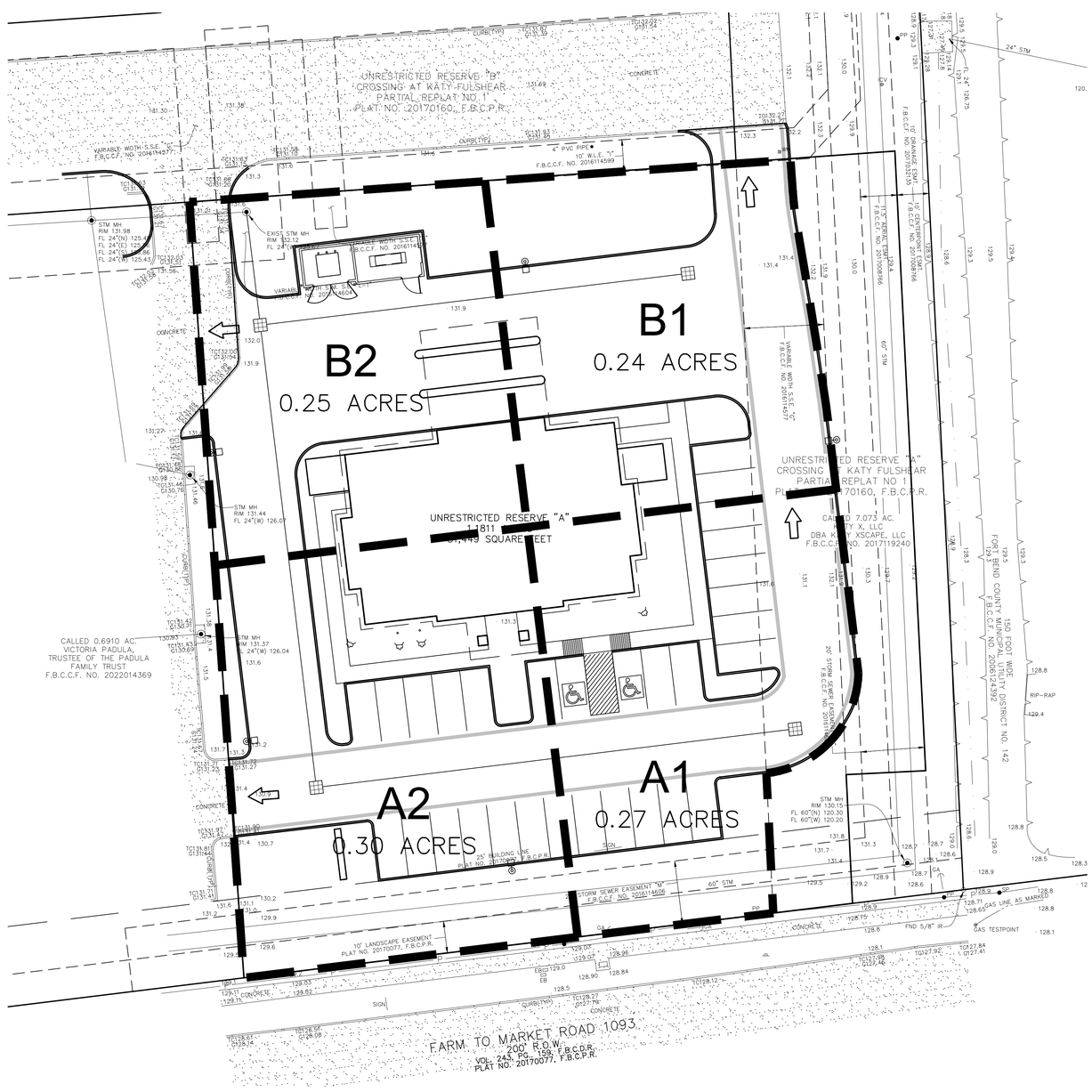

LEGEND

100 YEAR OVERFLOW ⇨

FLOODPLAIN INFORMATION

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SLI143 - SHELL FCU

Atlas 14 — 3 yr: b = 48.73, d = 8.37, e = 0.7063, $i = b/(d+TC)^e$ — 100 yr: b = 42.99, d = 1.08, e = 0.5274, $i = b/(d+TC)^e$

Underlined Number Indicates a Combined Drainage Area

Area No	Area A (acres)	Total Area A_{Total} (acres)	Runoff Coefficient C	Sum of C*A	Time of Conc T_C (min)	Intensity i (in/hr)	Sum of Flows Q (cfs)	Reach Length L (ft)	Diameter or Rise D (in)	Slope m (%)	Manning's n	Fall (ft)	MH Drop (ft)	Flowline Elevation Up (ft)	Flowline Elevation Down (ft)	Actual Velocity V (ft/s)	Hydraulic Gradient HGL (%)	Culvert Area (ft^2)	Hydraulic Radius Calc Rh^2/3	Design Capacity Q_{Design} (cfs)	Design Velocity V_{Design} (fps)	HGL Elevation Up (ft)	HGL Elevation Down (ft)	Gutter Elevation (ft)
3 Year																								
A1	0.27	0.27	0.80	0.22	10.00	6.24	1.35	151	12	0.441	0.013	0.67	-	126.78	126.11	1.72	0.14	0.79	0.40	2.36	3.00	**128.01**	127.80	**131.00**
A2	0.30	0.57	0.80	0.46	10.00	6.24	2.84	146	18	0.256	0.013	0.37	-	126.11	125.74	3.05	0.07	1.77	0.52	5.30	3.00	**127.80**	127.69	**131.00**
B1	0.24	0.24	0.80	0.19	10.00	6.24	1.20	135	12	0.441	0.013	0.60	-	126.34	125.74	3.00	0.11	0.79	0.40	2.36	3.00	**127.84**	127.69	**131.00**
B2	0.25	1.06	0.80	0.85	10.00	6.24	5.29	36	24	0.200	0.013	0.07	-	125.74	125.67	3.25	0.05	3.14	0.63	10.09	3.22	**127.69**	127.67	**131.00**
100 Year																								
A1	0.25	0.25	0.80	0.20	10.00	12.09	2.42	151	12	0.441	0.013	0.67	-	126.78	126.11	3.42	0.46	0.79	0.40	2.36	3.00	**130.96**	130.27	**131.00**
A2	0.30	0.55	0.80	0.44	10.00	12.09	5.32	146	18	0.256	0.013	0.37	-	126.11	125.74	3.42	0.26	1.77	0.52	5.30	3.00	**130.27**	129.89	**131.00**
B1	0.24	0.24	0.80	0.19	10.00	12.09	2.32	135	12	0.441	0.013	0.60	-	126.34	125.74	3.42	0.42	0.79	0.40	2.36	3.00	**130.46**	129.89	**131.00**
B2	0.25	1.04	0.80	0.83	10.00	12.09	10.06	36	24	0.200	0.013	0.07	-	125.74	125.67	3.67	0.20	3.14	0.63	10.09	3.22	**129.89**	129.82	**131.00**
Total Area		1.06																						

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04/07/2026
STATE OF TEXAS
WILLIAM DAVIS WILKINSON
85626
LICENSED
PROFESSIONAL ENGINEER

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Katy Fulshear
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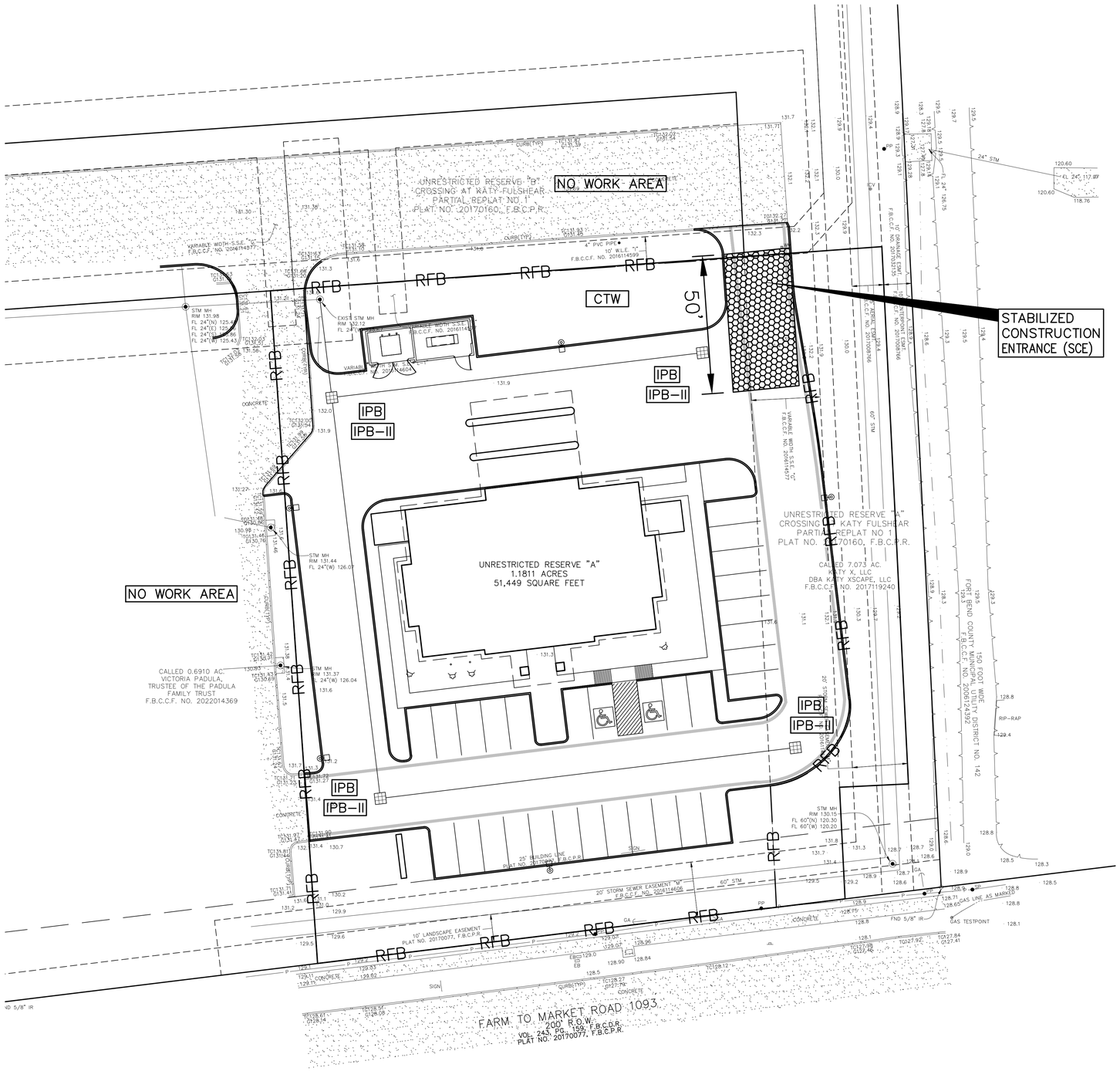
FBC Engineering Approval

DRAINAGE AREA MAP AND CALCULATIONS

C1.03

Date: Apr 07, 2026
File: C:\Google Drive\WD Engineering\Projects\SLI\SLI143\C03dsmSLI143.dwg



N
W WD E
S

0 10 20 40
1 INCH = 20 FEET

FLOODPLAIN INFORMATION

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), FLOOD INSURANCE RATE MAP (FIRM) FOR FORT BEND COUNTY, TEXAS, MAP NO. 48157C0105L REVISED/DATED APRIL 2, 2014, THE SUBJECT TRACT APPEARS TO LIE WITHIN UNSHADED ZONE "X".

BENCHMARK NOTES

BENCHMARK: HARRIS COUNTY FLOODPLAIN REFERENCE MARK RM NO. 190045 BEING A BRASS DISC STAMPED "190045" LOCATED ON A BRIDGE OVER BUFFALO BAYOU, APPROXIMATELY .5 MILES WEST FROM THE INTERSECTION OF CINCO RANCH BOULEVARD AND WESTHEIMER PARKWAY, PUBLISHED ELEVATION – 115.25.

TBM 3: BEING A BOX CUT ON THE BACK OF A CURB LOCATED FROM THE INTERSECTION OF THE SOUTHBOUND LANES OF WESTHEIMER LAKES NORTH DRIVE AND FARM TO MARKET 1093 ROAD, TRAVEL SOUTHWEST ON FARM TO MARKET 1093 ROAD APPROXIMATELY 1090 FEET, THEN TRAVEL 295 FEET NORTH TO THE SOUTH RIGHT–OF–WAY LINE OF PARK ROW, TO A BOX CUT ON THE BACK OF A CURB JUST NORTH OF THE TACO BELL, ELEVATION – 131.46.

TBM 4: BEING A BOX CUT ON THE BACK OF A CURB LOCATED FROM THE INTERSECTION OF THE SOUTHBOUND LANES OF WESTHEIMER LAKES NORTH DRIVE AND FARM TO MARKET 1093 ROAD, TRAVEL SOUTHWEST ON FARM TO MARKET 1093 ROAD APPROXIMATELY 930 FEET TO A PRIVATE DRIVEWAY, THEN TRAVEL 970 FEET NORTH TO THE BACK OF A CURB OF A CONCRETE MEDIAN, NORTHWEST OF THE XSCAPE MOVIE THEATER, ELEVATION – 132.33.

TBM "AAA": BEING A BOX CUT ON SET ON TOP OF A CONCRETE INLET LOCATED APPROXIMATELY 340 FEET NORTH FROM THE NORTH R.O.W. LINE OF FARM TO MARKET 1093 ROAD, AND 340 FEET EAST FROM THE EAST R.O.W. LINE OF RING ROAD. (SHOWN HEREON), ELEVATION – 132.34.

SWPPP FEATURES
(CONSTRUCTION PHASE ONLY)

–RFB–	REINFORCED FILTER FABRIC BARRIER*
SCE	STABILIZED CONSTRUCTION ENTRANCE
IPB	INLET PROTECTION BARRIER, STAGE I
IPB–II	INLET PROTECTION BARRIER, STAGE II
CTW	CONCRETE TRUCK WASHOUT AREA

*FF/RFB SHALL BE MIN 2' FROM BACK–OF–CURB

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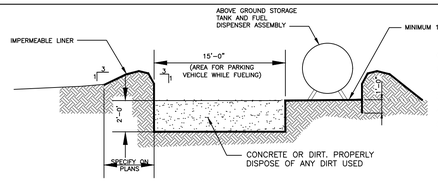
STORM WATER POLLUTION PREVENTION PLAN

C1.04

Date: Apr 07, 2026
File: C:\Google Drive\WD Engineering\Projects\SLI\SLI143\C04swpSLI143.dwg



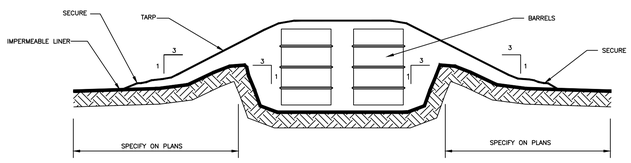
GENERAL NOTES:

1. THE SIZE OF TANK FOUNDATION AREA DEPENDS ON THE SIZE OF ABOVE GROUND STORAGE TANK AND DISPENSER ASSEMBLY.
2. PROVIDE A MINIMUM OF 1 FOOT CLEARANCE TO THE EDGE OF THE CONCRETE CURB.
3. PROVIDE A MINIMUM SLOPE OF 1 % TOWARD THE SUMP PIT.
4. INSTALL IMPERMEABLE LINER AS PER MANUFACTURER'S RECOMMENDATIONS.
5. DO NOT PLACE TANK OR SKID DIRECTLY ON LINER

TFA

SYMBOL

ABOVE GROUND TEMP. VEHICLE & EQUIPMENT FUELING AREA WITH TANK



BARREL STORAGE AREA

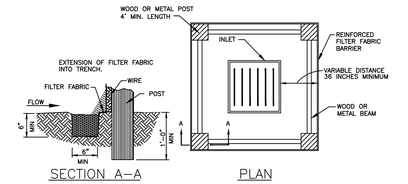
BSA

SYMBOL

GENERAL NOTES:

1. ALTERNATIVELY, STORE BARRELS IN AN ENCLOSED BUILDING OR SHED.
2.
3. INSTALL IMPERMIABLE LINER AS PER MANUFACTURER'S RECOMMENDATIONS. 60mil MINIMUM.

CONSTRUCT BERMED AREA WITH VOLUME GREATER THAN OR EQUAL TO 110% VOLUME OF BARRELS

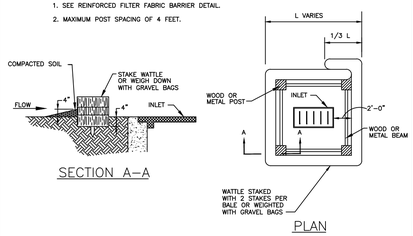


SECTION A–A

PLAN

NOTES:

1. SEE REINFORCED FILTER FABRIC BARRIER DETAIL.
2. MAXIMUM POST SPACING OF 4 FEET.



SECTION A–A

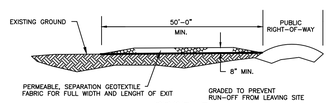
PLAN

NOTE:
TYPICALLY STRAW BALES ARE NOT RECOMMENDED FOR INLET PROTECTION BARRIERS.

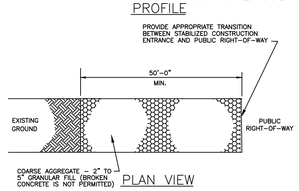
INLET PROTECTION BARRIERS FOR STAGE I INLETS

IPB–II

SYMBOL



PROFILE



PLAN VIEW

GENERAL NOTES:

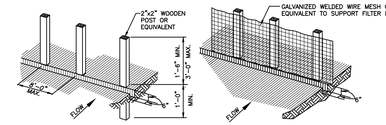
1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL POINTS OF INGRESS OR EGRESS.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT.
4. WHEN SHOWN ON THE CONSTRUCTION DRAWINGS, WIDEN OR LENGTHEN STABILIZED AREA TO ACCOMMODATE A TRUCK WASHING AREA. PROVIDE OUTLET SEDIMENT TRAP FOR THE TRUCK WASHING AREA.
5. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH OR WHEN SURFACE BECOMES PACKED WITH MUD.
6. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRIVING SURFACE.
7. ALTERNATIVE METHODS OF CONSTRUCTION INCLUDE
   –CEMENT STABILIZED SOIL: COMPACTED CEMENT STABILIZED SOIL, LIMESTONE AGGREGATE, OR OTHER FILL MATERIAL IN AN APPLICATION OF THICKNESS OF 8 INCHES.
   –WOOD MATS: OAK OR OTHER HARDWOOD TIMBERS PLACED EDGE TO EDGE AND ACROSS SUPPORT WOODEN BEAMS WHICH ARE PLACED ON TOP OF EXISTING SOIL IN AN APPLICATION THICKNESS OF 6 INCHES.
   –STEEL MATS: PERFORATED MATS PLACED ACROSS PERPENDICULAR SUPPORT MEMBERS.
8. MINIMUM 14' WIDTH FOR ONE WAY TRAFFIC AND 20' WIDTH FOR TWO WAY TRAFFIC.

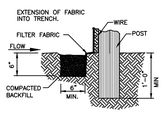
STABILIZED CONSTRUCTION ACCESS

SC–1

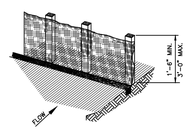
SYMBOL

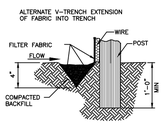
1. SET POSTS AT REQUIRED SPACING AND DEPTH. EXCAVATE 6" x 6" TRENCH UPSLOPE ALONG THE LINE OF POSTS.
2. SECURE MESH FENCING TO POSTS





3. ATTACH FILTER MATERIAL TO WIRE FENCE AND EXTEND IT INTO THE TRENCH. BACKFILL AND COMPACT THE EXCAVATED SOIL.





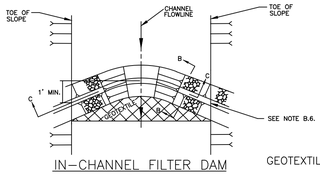
GENERAL NOTES:

1. SECURELY FASTEN MESH FENCING TO POSTS WITH STAPLES OR TIE WIRES.
2. SECURELY FASTEN FILTER FABRIC TO MESH FENCING.
3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT A POST, FOLD TOGETHER, AND ATTACH TO A POST.
4. REMOVE SEDIMENT DEPOSITS WHEN SILT REACHES ONE–THIRD OF THE HEIGHT OF THE FENCE IN DEPTH.

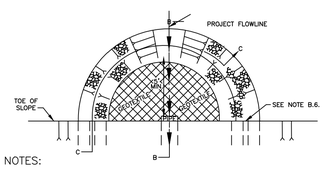
REINFORCED FILTER FABRIC BARRIER

RFB

SYMBOL



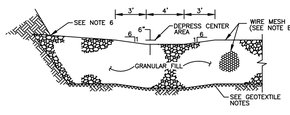
IN–CHANNEL FILTER DAM PLAN



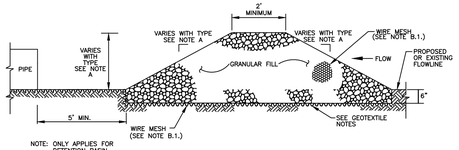
FILTER DAM AT DETENTION BASIN OUTFALL PIPE PLAN

GEOTEXTILE NOTES:

MIN. AOS	SIEVE NO.	120 MIN
MAX. AOS	SIEVE NO.	50 MAX
WEIGHT	OZ/SY	4 OZ. MIN



SECTION C–C



NOTE: ONLY APPLIES FOR DETENTION BASIN OUTFALL PIPE PROTECTION.

SECTION B–B

A. TYPES OF FILTER DAMS.

1. TYPE 1 (NON–REINFORCED)
   a. HEIGHT – 18–24 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH – 2 FEET (MINIMUM)
   c. SLOPES – 2:1 (MAXIMUM).
2. TYPE 2 (REINFORCED).
   a. HEIGHT – 18–36 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH – 2 FEET (MINIMUM).
   c. SLOPES – 2:1 (MAXIMUM).
3. TYPE 3 (REINFORCED)
   a. HEIGHT – 36–48 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH – 2 FEET (MINIMUM).
   c. SLOPES – 3:1 (MAXIMUM).
4. TYPE 4 (GABION)
   a. HEIGHT – 30 INCHES (MINIMUM). MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH – 2 FEET (MINIMUM).
5. TYPE 5. AS SHOWN ON THE PLANS.

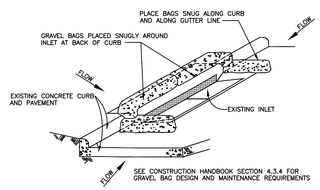
B. CONSTRUCT FILTER DAMS ACCORDING TO THE FOLLOWING CRITERIA UNLESS SHOWN OTHERWISE ON THE PLANS.

1. TYPE 2 AND 3 FILTER DAMS: SECURE WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1 INCH DIAMETER HEXAGONAL OPENINGS.
2. GRANULAR FILL:
   a. PLACE ON MESH TO HEIGHT AND SLOPES SHOWN ON PLANS OR AS SPECIFIED BY THE ENGINEER.
   b. 3–5 INCHES FOR ROCK FILTER DAM TYPES 1,2, AND 4 AND 4–8 INCHES FOR ROCK FILTER DAM TYPE 3. REFER TO GRANULAR FILL IN SPECIFICATION SECTION NO. 02378–RIPRAP AND GRANULAR FILL.
3. WIRE MESH: FOLD AT UPSTREAM SIDE OVER GRANULAR FILL AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOG RINGS.
4. IN STREAMS: SECURE OR STAKE MESH TO STREAM BED PRIOR TO AGGREGATE PLACEMENT.
5. SEE SPECIFICATION SECTION NO. 02364–FILTER DAMS.
6. EMBED ONE FOOT MINIMUM INTO SLOPE AND RAISE ONE FOOT HIGHER THAN CENTER OF DEPRESSED AREA AT SLOPE.

FILTER DAM

RFD – TYPE

SYMBOL



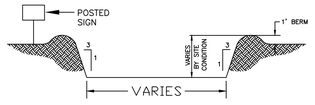
GENERAL NOTES:

1. REMOVE SEDIMENT DEPOSIT WHEN THE SEDIMENT HAS ACCUMULATED TO ONE–THIRD THE HEIGHT OF THE BARRIER.
2. GRAVEL BAGS SHALL NOT BLOCK THROAT OF INLET UNLESS DIRECTD BY ENGINEER.

INLET PROTECTION BARRIERS FOR STAGE II INLETS

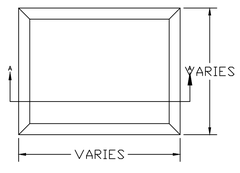
IPB–II

SYMBOL



SECTION A–A

N.T.S.



PLAN VIEW

N.T.S.

GENERAL NOTES:

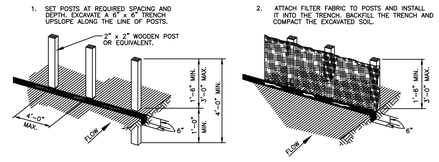
1. POST A SIGN READING "CONCRETE WASH OUT PIT" NEXT TO THE PIT.
2. VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASH OUT THEIR TRUCKS IN THE PIT AND NO WHERE ELSE.
3. UNPON THE CONCRETE SETTING UP (CURING, DRYING OUT), THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASH OUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN–SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.
4. CONCRETE WASH OUT PITS SHALL NOT BE LOCATED DIRECTLY ADJACENT TO, NOR AT ANY TIME DRAIN INTO THE STORM SEWER SYSTEM OR ANY OTHER SWALE, DITCH, OR WATERWAY.
5. CONSTRUCT ENTRY ROAD AND BOTTOM OF WASHOUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS EQUIPMENT.

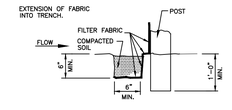
CONCRETE TRUCK WASHOUT AREA

CTW

SYMBOL

1. SET POSTS AT REQUIRED SPACING AND DEPTH. EXCAVATE A 6" x 6" TRENCH UPSLOPE ALONG THE LINE OF POSTS.
2. ATTACH FILTER FABRIC TO POSTS AND INSTALL IT INTO THE TRENCH. BACKFILL THE TRENCH AND COMPACT THE EXCAVATED SOIL.





GENERAL NOTES:

1. SET POSTS AT 4–FEET MAXIMUM SPACING. IF FACTORY PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAXIMUM.
2. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT THE POST, FOLD TOGETHER, AND ATTACH TO THE POSTS.
3. REMOVE SEDIMENT DEPOSITS WHEN SILT DEPTH REACHES ONE–THIRD OF THE HEIGHT OF THE FENCE.

FILTER FABRIC FENCE

FF

SYMBOL

NOTE:
DETAILS SHOWN HEREON ARE EXPECTED TO BE FOUND IN MOST PROJECTS. ADDITIONAL DETAILS ARE INCLUDED WITH HARRIS COUNTY STANDARD SPECIFICATIONS AND MAY BE FOUND ON HCPID–AED WEBSITE

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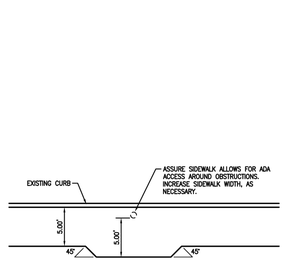
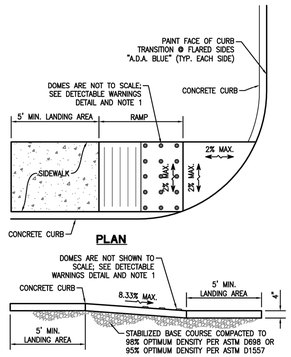
STORM WATER POLLUTION PREVENTION PLAN DETAILS

C1.05

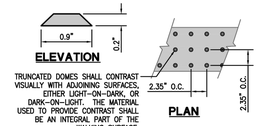
Date: Apr 07, 2026
File: C:\Google Drive\WD Engineering\Projects\SLI\143\C05swdSLI143.dwg





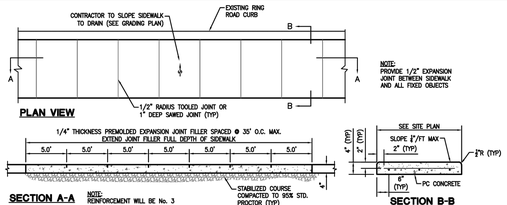
NOTES:

1. THE SURFACE OF RAMP SHALL HAVE DETECTABLE WARNINGS AS SHOWN. DETECTABLE WARNINGS WITHIN PUBLIC R.O.W. SHALL CONSIST OF RAISED TRUNCATED DOMES. SEE DETECTABLE WARNING DETAIL.
2. RAMP SIDE SLOPE VARIES UNIFORMLY FROM A MAXIMUM OF UP TO 10% AT CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO TOP OF THE RAMP.
3. CONSTRUCT PER A.D.A. STANDARDS.
4. REFER TO PLANS FOR ADJACENT SLOPES.
5. THE CROSS SLOPE OF THE RAMP SURFACE SHALL BE NO GREATER THAN 1:50.
6. AT A MINIMUM THE BOTTOM 2' OF THE CURB RAMP SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES AND CONTAIN DETECTABLE WARNING SURFACE.
7. CONTRACTOR SHALL VERIFY REQUIREMENTS OF LOCAL CODES PRIOR TO CONSTRUCTING RAMPS.

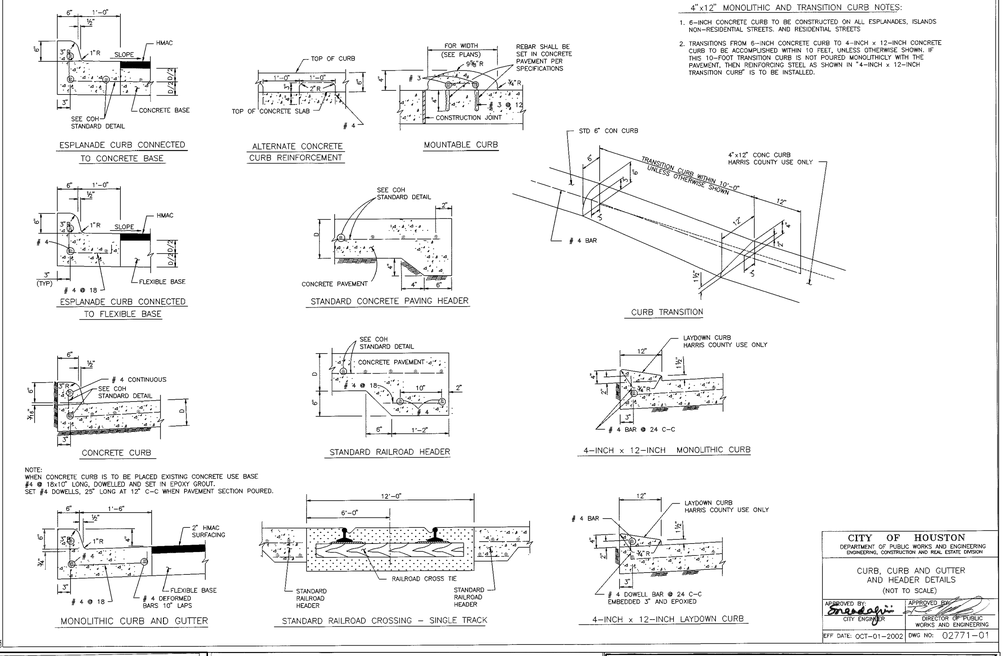


DETECTABLE WARNINGS DETAIL

* PRE-FABRICATED PANELS PER A.D.A. ACCESSIBILITY GUIDELINES SECTION 4.29.2 & A4.29.2 SHALL BE USED.



THE CROSSING AT KATY FULSHEAR STANDARD SIDEWALK AND RAMPING DETAILS



4"x12" MONOLITHIC AND TRANSITION CURB NOTES:

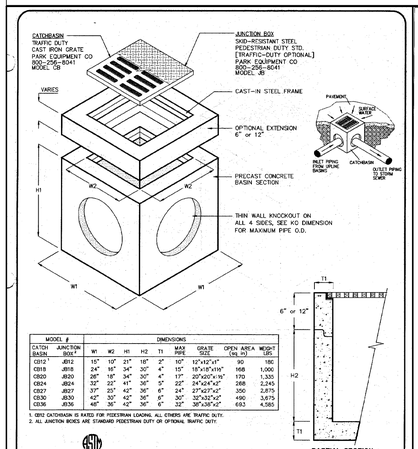
1. 6-INCH CONCRETE CURB TO BE CONSTRUCTED ON ALL ESPLANADES, ISLANDS NON-RESIDENTIAL STREETS, AND RESIDENTIAL STREETS
2. TRANSITIONS FROM 6-INCH CONCRETE CURB TO 4-INCH x 12-INCH CONCRETE CURB TO BE ACCOMPLISHED WITHIN 10 FEET, UNLESS OTHERWISE SHOWN. IF THIS 10-FOOT TRANSITION CURB IS NOT POURED MONOLITHICLY WITH THE PAVEMENT, THEN REINFORCING STEEL AS SHOWN IN "4-INCH x 12-INCH TRANSITION CURB" IS TO BE INSTALLED.

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION

CURB, CURB AND GUTTER AND HEADER DETAILS
(NOT TO SCALE)

APPROVED BY: Brandaur, CITY ENGINEER — APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING

EFF DATE: OCT-01-2002 | DWG NO: 02771-01



MODEL #		DIMENSIONS								
CATCH BASIN	JUNCTION BOX	W1	W2	H1	H2	T1	MAX PIPE	GRATE SIZE	OPEN AREA (sq. in)	WEIGHT LBS.
CB12 *	JB12	15"	19"	21"	18"	2"	10"	12"x12"x1"	90	186
CB18	JB18	24"	16"	24"	20"	4"	15"	18"x18"x1½"	168	1,000
CB20	JB20	28"	18"	24"	30"	4"	17"	20"x20"x1½"	170	1,335
CB24	JB24	33"	22"	41"	36"	5"	22"	24"x24"x2"	268	2,245
CB27	JB27	37"	25"	42"	36"	6"	24"	27"x27"x2"	350	2,875
CB30	JB30	42"	32"	42"	36"	6"	30"	32"x32"x2"	490	3,875
CB36	JB36	48"	36"	42"	36"	6"	32"	38"x38"x2"	693	4,585

1. CB12 CATCHBASIN IS RATED FOR PEDESTRIAN LOADING, ALL OTHERS ARE TRAFFIC DUTY.
2. ALL JUNCTION BOXES ARE STANDARD PEDESTRIAN DUTY OR OPTIONAL TRAFFIC DUTY.

SPECIFICATIONS

CONCRETE : Class 1 concrete with at design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

CI. CASTINGS: Cast iron frames and grates are manufactured of grey cast iron conforming to ASTM A48-76 Class 30.

PARK ENVIRONMENTAL EQUIPMENT 800-256-8041 www.park-USA.com

"Expect the Best"

CATCHBASIN MODEL CB - 12" THRU 36"
JUNCTION BOX MODEL JB - 12" THRU 36"

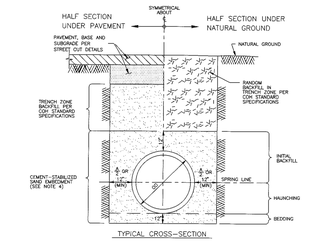
SCALE	NONE	DWG NO.	REV.
DATE	01/02	CBJB36	A

NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS PER COH STANDARD. SEE COH STANDARD SPECIFICATION FOR REQUIREMENTS IN OTHER CONDITIONS.
2. MIN TRENCH WIDTH SHALL BE PIPE OD PLUS 16" ALLOWANCE FOR PIPE NOMINAL PIPE SIZE:

NOMINAL PIPE SIZE	"A"
18" TO 30"	24"
OVER 30"	30"

3. MAX TRENCH WIDTH SHALL BE NOT GREATER THAN MIN TRENCH WIDTH PLUS 12 INCHES, UNLESS OTHERWISE NOTED.
4. ALTERNATIVE EMBEDMENT BACKFILL MATERIALS FOR FORCE MAINS MAY BE ALLOWED. SEE COH STANDARD SPECIFICATIONS.

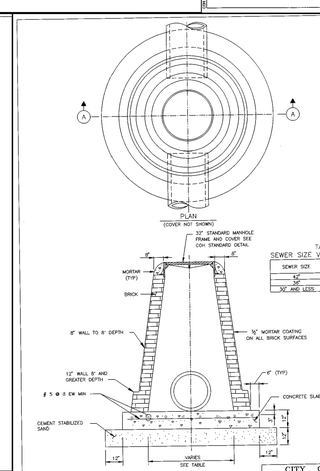


CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION

SANITARY OR STORM SEWER BEDDING AND BACKFILL FOR DRY STABLE TRENCH
(NOT TO SCALE)

APPROVED BY: Brandaur, CITY ENGINEER — APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING

EFF DATE: OCT-01-2002 | DWG NO. 02317-03

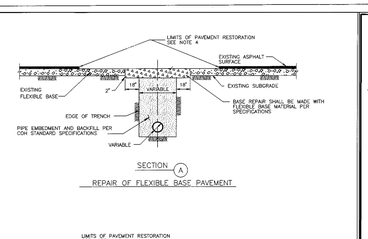


CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION

STORM SEWER MANHOLE TYPE "C" FOR 42" DIAMETER RCP AND SMALLER
(NOT TO SCALE)

APPROVED BY: Brandaur, CITY ENGINEER — APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING

EFF DATE: OCT-01-2002 | DWG NO. 02081-01



NOTE:

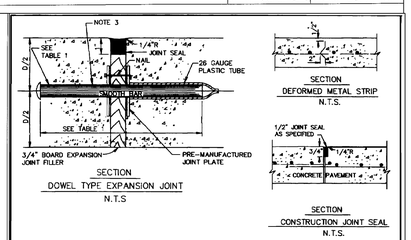
1. EXPOSE 15" OF REINFORCING STEEL AT PROPOSED SAWED JOINT. IF NO REINFORCING STEEL EXISTS, USE HORIZONTAL DOWELS. HORIZONTAL DOWELS SHALL BE # 6 BARS, 24" LONG, 24" C-C, DRILLED AND EMBEDDED 8" INTO THE CENTER OF THE EXISTING SLAB. WITH "PO ROC" OR EQUAL.
2. IF REINFORCED CONCRETE IS OVERLAYED WITH ASPHALT, REPLACE WITH 2" MIN HMAC SURFACING.
3. REFER TO STANDARD DETAIL 02751-01 FOR REINFORCING STEEL REQUIREMENTS
4. REFER TO STANDARD DETAIL 02951-01 FOR PAVEMENT RESTORATION LIMITS.

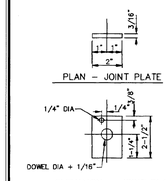
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION

PAVEMENT REPAIR DETAILS FOR STREET CUTS
(NOT TO SCALE)

APPROVED BY: Brandaur, CITY ENGINEER — APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING

EFF DATE: OCT-01-2002 | DWG NO. 02902-01





NOTES:

1. STEEL TO MEET ASTM STANDARD SPECIFICATIONS FOR CONCRETE REINFORCING BARS. LIMITS TO BE SPACED ON 12" CENTERS.
2. EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB RADIUS.
3. CENTER DOWEL HORIZONTALLY ON JOINT.
4. CENTER DOWEL VERTICALLY IN CONCRETE BASE. EXTEND THICKENED CONCRETE AS NEEDED TO MAINTAIN 3" MIN. COVER.
5. CITY OF HOUSTON APPROVED PRODUCTS MAY BE USED AS JOINT PLATE ALTERNATIVE

TABLE 1

PAVEMENT THICKNESS (IN)	DOWEL SIZES AND SPACINGS DIAMETER (IN)	LENGTH (IN)	SPACING (IN)
6	3/4	18	12
7	1	18	12
8	1	18	12
9	1 1/4	18	12
10	1 1/4	18	12
11	1 1/4	18	12
12	1 1/4	18	12

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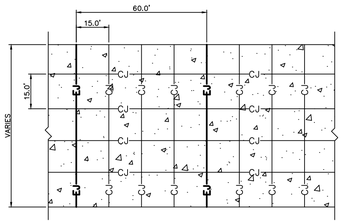
ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION

PAVEMENT EXPANSION AND CONSTRUCTION JOINT DETAILS
(NOT TO SCALE)

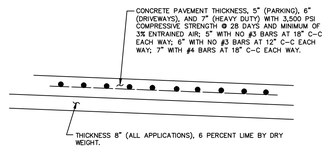
APPROVED BY: Brandaur, CITY ENGINEER — APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING

EFF DATE: June-01-2003 | DWG NO: 02752-01



NOTE: TYPICAL THROUGHOUT CONCRETE PAVEMENT SECTION ONLY UNLESS SHOWN OTHERWISE IF SAWCUT, CONTROL JOINTS SHOULD BE CUT WITHIN 12 TO 24 HOURS OF CONCRETE PLACEMENT. CJ SPACING SHALL BE 12.5' FOR PARKING AREAS

EXPANSION JOINT & CONTROL JOINT DETAIL
NO SCALE



CONCRETE PAVEMENT SECTION
NO SCALE

ISSUE FOR BID 04/07/2026

SLI DESIGN, INC.
ARCHITECTURE • PLANNING • INTERIOR DESIGN
15810 Park Ten Place Suite 300
Houston, TX 77084
713-465-4650
www.thesligroup.com

WD Engineering
TBPE NO F-8795
410 ASBURY STREET
HOUSTON, TEXAS 77007
713.301.4922 OFFICE
WDENGINEERING.COM

04/07/2026
STATE OF TEXAS
WILLIAM DAVIS WILKINSON
85626
LICENSED
PROFESSIONAL ENGINEER

Shell Federal Credit Union
Katy Fulshear
26620 FM 1093
Katy, Texas 77494

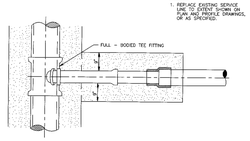
FBC Engineering Approval

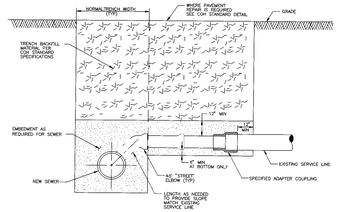
MISCELLANEOUS DETAILS

C1.06

Date: Apr 07, 2026
File: C:\Google Drive\WD Engineering\Projects\SLI\SLI1143\Cd06pavSLI1143.dwg

NOTE:
1. REPLACE EXISTING SERVICE LINE AS SHOWN IN PLAN ON PLAN AND PROFILE DRAWINGS, OR AS SPECIFIED.



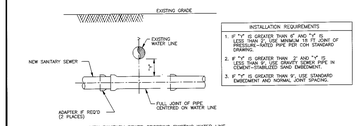


CROSS-SECTION OF SEWER AT SERVICE CONNECTION

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION

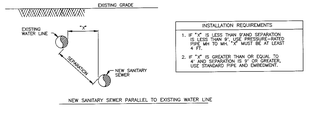
SANITARY SEWER
SERVICE RECONNECTION
ON NEW OR REPLACEMENT SEWER
(NOT TO SCALE)

APPROVED BY: City Engineer — APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: OCT-01-2002 DWG NO: 02534-04



NEW SANITARY SEWER CROSSING EXISTING WATER LINE

INSTALLATION REQUIREMENTS
1. IF "V" IS GREATER THAN 4' AND "H" IS GREATER THAN 2', INSTALL ONE JOINT OF PRESSURE-RATED PIPE PER COH STANDARD DRAWING.
2. IF "V" IS GREATER THAN 2' AND "V" IS LESS THAN 4', USE DEFLECTED SEWER PIPE IN LIEU OF STANDARD CASED EMBEDMENT.
3. IF "H" IS GREATER THAN 4', USE STANDARD EMBEDMENT AND NORMAL JOINT SPACING



NEW SANITARY SEWER PARALLEL TO EXISTING WATER LINE

INSTALLATION REQUIREMENTS
1. IF "H" IS LESS THAN 9'AND SEPARATION IS LESS THAN 4', USE PRESSURE-RATED PIPE AT LEAST 4 FT. WEST AND 4 FT. EAST OF CROSSING.
2. IF "V" IS GREATER THAN OR EQUAL TO 4', AND SEPARATION IS 9' OR GREATER, USE STANDARD PIPE AND EMBEDMENT.

NOTES:
1. SANITARY SEWER MUST BE BELOW WATER LINE WHEREVER POSSIBLE. WHEN WASTEWATER IS BELOW THE SANITARY SEWER PROVIDE MINIMUM 9 FT SEPARATION AND INSTALL PIPE SAME AS FOR SEWER BELOW WATER.
2. WHEN PRESSURE-RATED PIPE IS REQUIRED, USE DUCTILE PIPE WITH MINIMUM 150 psi PRESSURE RATING.
3. ADAPTERS MUST BE FACTORY MOLDED OR FABRICATED, WITH RING STIFFNESS AT LEAST EQUAL TO THE ADJOINING SANITARY SEWER PIPE, AND USING GASKETS MADE FOR THE TYPE OF PIPE USED. FLEXIBLE RUBBER "BOOT" TYPE ADAPTERS WILL NOT BE ACCEPTED.
4. INSTALL FORCE MAINS SAME AS FOR GRAVITY SEWER, USING SPECIFIED PRESSURE PIPE.
5. "V" MUST ALWAYS BE GREATER THAN OR EQUAL 4'.
6. "H" MUST BE GREATER THAN OR EQUAL TO 4 FT.
7. ALTERNATIVES MAY BE SHOWN ON THE DRAWINGS OR DESCRIBED IN THE SPECIFICATIONS.
8. SEPARATION REQUIREMENTS SHOWN HERE DO NOT APPLY TO SEPARATION REQUIREMENTS REFER TO PLUMBING CODE FOR APPLICABLE REQUIREMENTS.

INSTALLING SANITARY SEWERS CROSSING OR PARALLEL TO WATER LINES

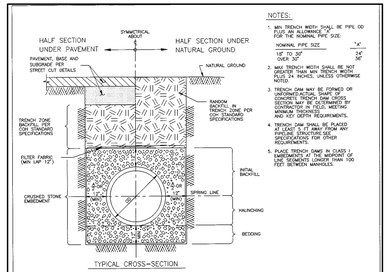
TABLE 02730-04
SEWER LINE CROSSING BELOW WATER LINE WITHIN 2 FT SEPARATION

GRAVITY SANITARY SEWER PIPE SIZE	PRESSURE-RATED PIPE SIZE & TYPE (NOTE 2)	ADAPTERS REQUIRED
6" TO 12" (ASTM D3034)	SAME SIZE ASTM D2241, SDR 26	ASTM D3034 TO D2665 OR D1784 CPVC ADAPTER COUPLING
15" (ASTM D3034)	14" LINED DUCTILE IRON OR AWWA C900, DR25	NONE REQUIRED
18" AND 24"	SAME SIZE AWWA C905, DR25 PVC OR 16" LINED OR LINED DUCTILE IRON, WRAPPED TO MANHOLE	NONE REQUIRED
21" AND 27"	SAME SIZE PRESSURE-RATED PIPE OR LINED DUCTILE IRON, WRAPPED TO MANHOLE	NOT APPLICABLE
30" AND LARGER	SAME SIZE PRESSURE-RATED PIPE OR LINED DUCTILE IRON, WRAPPED TO MANHOLE	NOT APPLICABLE
CASING ALTERNATIVE: ANY SIZE AND TYPE	INSTALL AS CASING PIPE PER DETAIL, USING PVC PRESSURE PIPE AT LEAST 2 NOMINAL SIZES LARGER THAN CARRIER PIPE. USE CARRIER PIPE GROUP ANNULAR SPACE WITH TUNNEL GROUT	NOT APPLICABLE

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION

SANITARY SEWER
INSTALLING SANITARY SEWERS
CROSSING OR PARALLEL TO WATER LINES
(NOT TO SCALE)

APPROVED BY: City Engineer — APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: OCT-01-2002 DWG NO: 02531-05

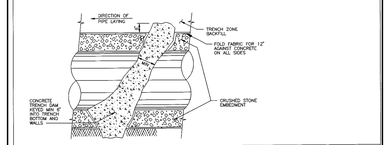


TYPICAL CROSS-SECTION

NOTES:
1. MIN TRENCH WIDTH SHALL BE PIPE OD PLUS AN ALLOWANCE "A" FOR THE NOMINAL PIPE SIZE:

NOMINAL PIPE SIZE	"A"
18" TO 30"	24"
OVER 30"	36"

2. MAX TRENCH WIDTH SHALL BE NOT GREATER THAN MIN TRENCH WIDTH PLUS 24 INCHES, UNLESS OTHERWISE NOTED.
3. TRENCH DAM MAY BE FORMED OR UNFORMED AT FULL SHAPE OF EXCAVATION. LOCATION OF DAMS SHALL BE DETERMINED BY CONTRACTOR IN FIELD, MEETING ALL SPACING, CONSTRUCTION AND KEY DEPTH REQUIREMENTS.
4. TRENCH DAM SHALL BE PLACED AT LEAST 5 FT AWAY FROM ANY EXISTING STRUCTURES OR PROPOSED STRUCTURE FOR OTHER REQUIREMENTS.
5. PLACE TRENCH DAMS IN CLASS I EMBEDMENTS AT THE MIDPOINT OF EACH SEGMENT, NOT MORE THAN 100 FEET BETWEEN MANHOLES.

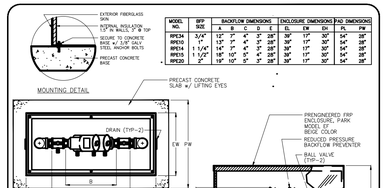


LONGITUDINAL SECTION ALONG PIPE @ AT EMBEDMENT TRENCH DAM

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION

SANITARY SEWER EMBEDMENT AND TRENCH ZONE BACKFILL FOR DRY OR WET STABLE TRENCH
(NOT TO SCALE)

APPROVED BY: City Engineer — APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: OCT-01-2002 DWG NO: 02317-01



MODEL NO.	RPP SIZE	BACKFLOW DIMENSIONS A	B	C	D	ENCLOSURE DIMENSIONS EW	PW	EL	PW	PAD DIMENSIONS PL	PW
RPE1	3/4"	13"	7"	4"	7"	28"	17"	30"	54"	28"	28"
RPE2	1"	13"	7"	4"	7"	28"	17"	30"	54"	28"	28"
RPE3	1 1/4"	14"	7"	4"	7"	28"	17"	30"	54"	28"	28"
RPE3	1 1/2"	15"	10"	5"	7"	28"	17"	30"	54"	28"	28"
RPE20	2"	15"	10"	5"	7"	28"	17"	30"	54"	28"	28"

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Specifications
CONCRETE : Class J concrete with design strength of 4500 PSI at 28 days.
REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

Typical Applications
RP devices are used to protect against high hazard (toxic) fluids in water services to industrial plants, hospital facilities, morgues, mortuaries, and chemical plants. They are also used in irrigation systems, boiler feed, water lines and other installations requiring maximum protection.

Engineering Data
The backflow assembly shall be factory assembled on pod & hydrostatically tested prior to delivery. Field excavation & preparation shall be complete prior to delivery. Pipe, valves and fittings of the assembly shall be approved by one or more of the following associations:

AWWA UL USC FM

PROJECT :	
CUSTOMER :	
ARCHITECT :	
ENGINEER :	
ORDER # :	
DATE :	

PARK ENVIRONMENTAL EQUIPMENT 800-256-8041 www.park-USA.com
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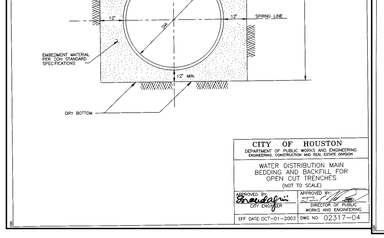
REDUCED PRESSURE BACKFLOW PREVENTER ON PRECAST CONCRETE PAD

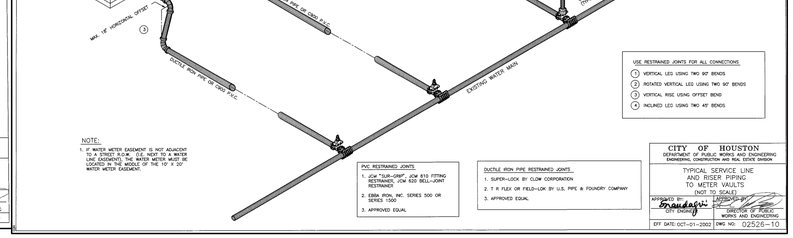
SCALE: NONE — DWG. NO. RPE1-S — REV. A — DATE: 01/02



CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION

WATER DISTRIBUTION MAIN BEDDING AND BACKFILL FOR OPEN CUT TRENCHES
(NOT TO SCALE)

APPROVED BY: City Engineer — APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: OCT-01-2003 DWG NO: 02317-04



USE RESTRAINED JOINTS FOR ALL CONNECTIONS
1. VERTICAL LEG USING TWO 90° BENDS
2. ROTATED VERTICAL LEG USING TWO 90° BENDS
3. VERTICAL RISE USING OFFSET BEND
4. INCLINED LEG USING TWO 45° BENDS

NOTE:
1. IF WATER METER EASEMENT IS NOT ADJACENT TO A STREET R.O.W. (I.E. NEXT TO A WATER LINE EASEMENT), THE WATER METER MUST BE LOCATED WITHIN 5' OF THE 10' X 20' WATER METER EASEMENT.

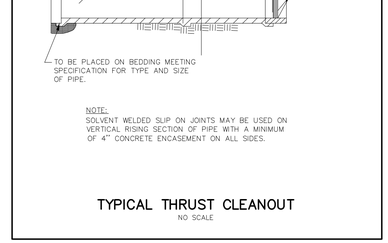
PVC RESTRAINED JOINTS
1. JCM "SUR-GRIP" OR EBAA FITTING RESTRAINER, JCM 620 SELL-JOINT RESTRAINER
2. EBBA IRON, INC. SERIES 500 OR SERIES 1500
3. APPROVED EQUAL

DUCTILE IRON PIPE RESTRAINED JOINTS
1. SUPER-LOCK BY CLOW CORPORATION
2. T R FLEX OR FIELD-LOK BY U.S. PIPE & FOUNDRY COMPANY
3. APPROVED EQUAL

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION

TYPICAL SERVICE LINE AND RISER PIPING TO METER VAULTS
(NOT TO SCALE)

APPROVED BY: City Engineer — APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: OCT-01-2002 DWG NO: 02526-10



NOTE:
SOLVENT WELDED SLIP ON JOINTS MAY BE USED ON VERTICAL RISING SECTION OF PIPE WITH A MINIMUM OF 4" CONCRETE ENCASEMENT ON ALL SIDES.

TYPICAL THRUST CLEANOUT
NO SCALE

ISSUE FOR BID 04/07/2026

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04/07/2026
STATE OF TEXAS
WILLIAM DAVIS WILKINSON
85626
LICENSED
PROFESSIONAL ENGINEER

Shell Federal Credit Union
Katy Fulshear
26620 FM 1093
Katy, Texas 77494

FBC Engineering Approval

WATER, STORM, AND SANITARY DETAILS

C1.07

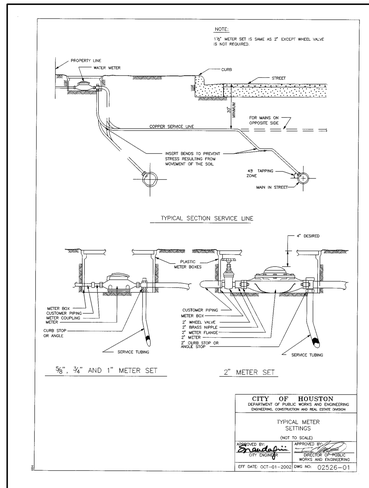
PIPE TAPPING SCHEDULE				
WATER MAIN DIAMETER	SERVICE SIZE ¾"	1"	1½"	2"
4" CAST IRON OR DUCTILE IRON	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
4" ASBESTOS (EXISTING) CEMENT	WBSS	WBSS	DSS, WBSS	DSS, WBSS
4" PVC (AWWA C900)	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
6", AND 8" CAST IRON OR DUCTILE IRON	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
6" AND 8" ASBESTOS (EXISTING) CEMENT	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
6", AND 8" CAST IRON OR DUCTILE IRON	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
6" AND 8" PVC (AWWA C900)	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
12" CAST IRON OR DUCTILE IRON	DSS, WDSS	DSS, WDSS	DSS, WDSS	DSS, WDSS
12" ASBESTOS (EXISTING) CEMENT	DSS, WDSS	DSS, WDSS	DSS, WDSS	DSS, WDSS
12" PVC (AWWA C900)	DSS, WDSS	DSS, WDSS	DSS, WDSS	DSS, WDSS
16" AND UP CAST IRON OR DUCTILE IRON	DWSS	DWSS	DWSS	DWSS
16" AND UP ASBESTOS (EXISTING) CEMENT	DWSS	DWSS	DWSS	DWSS
16" AND UP PVC (AWWA C900)	DWSS	DWSS	DWSS	DWSS

DSS – DUAL STRAP SADDLES
WSS – WIDE BAND STRAP SADDLES
DWSS – DUAL WIDE BAND STRAP SADDLES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION

SERVICE TAPS
(NOT TO SCALE)

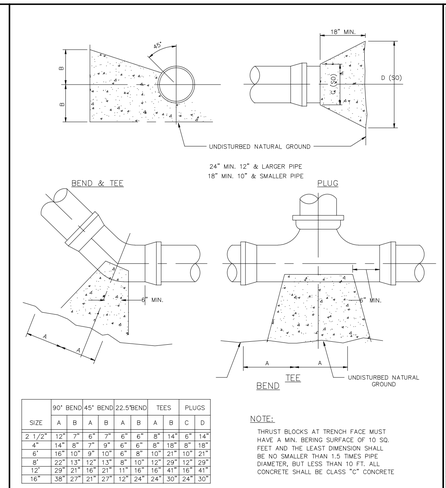
APPROVED BY: City Engineer — APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: OCT-01-2002 DWG NO: 02512-02



CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION

TYPICAL METER SETTINGS
(NOT TO SCALE)

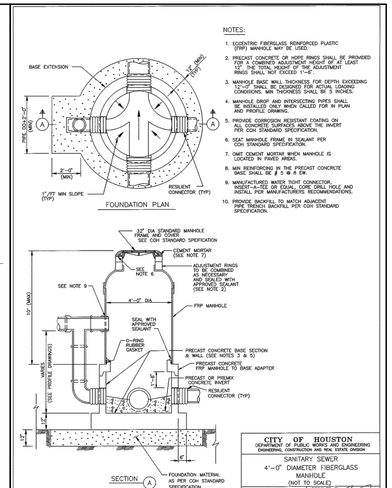
APPROVED BY: City Engineer — APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: OCT-01-2002 DWG NO: 02526-01



SIZE	90° BEND A	B	45° BEND A	B	22.5°BEND A	B	TEES A	B	PLUGS C	D
2 1/2"	12"	7"	6"	7"	6"	6"	8"	14"	6"	14"
4"	14"	8"	7"	9"	6"	6"	8"	18"	8"	18"
6"	18"	10"	9"	10"	6"	8"	10"	21"	10"	21"
8"	22"	13"	12"	13"	8"	10"	12"	29"	12"	29"
12"	29"	21"	16"	21"	11"	16"	16"	41"	16"	41"
16"	38"	27"	21"	27"	12"	24"	24"	30"	24"	30"

NOTE:
THRUST BLOCKS AT TRENCH FACE MUST HAVE A MIN. BERING SURFACE OF 10 SQ. FEET AND THE LEAST DIMENSION SHALL BE NO SMALLER THAN 1.5 TIMES PIPE DIAMETER, BUT LESS THAN 10 FT. ALL CONCRETE SHALL BE CLASS "C" CONCRETE

THRUST BLOCK DETAIL
NO SCALE



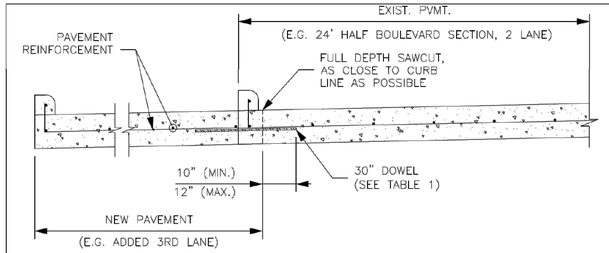
NOTES:
1. ECCENTRIC FIBERGLASS REINFORCED PLASTIC (FRP) MANHOLE MAY BE USED.
2. PRECAST CONCRETE OR HDPE RINGS SHALL BE PROVIDED FOR A MINIMUM OF 12" AND A MAXIMUM OF 24" TOTAL HEIGHT ADJUSTMENT. INDIVIDUAL RINGS SHALL NOT EXCEED 1'-6".
3. MANHOLE BASE WALL THICKNESS FOR DEPTH EXCEEDING 12'-0" SHALL BE DESIGNED FOR INTERNAL LOADING CONDITIONS. MIN THICKNESS SHALL BE 5 INCHES.
4. MANHOLE DROP AND INTERSECTING PIPES SHALL BE INSTALLED ONLY WHEN CALLED FOR IN PLAN AND PROFILE DRAWING.
5. PROVIDE CORROSION RESISTANT COATING ON ALL CONCRETE SURFACES ABOVE THE INVERT PER COH STANDARD SPECIFICATION.
6. SEAT MANHOLE FRAME IN SEALANT PER COH STANDARD SPECIFICATION.
7. OMIT CEMENT MORTAR WHEN MANHOLE IS LOCATED IN PAVED AREAS.
8. MIN REINFORCING IN THE PRECAST CONCRETE BASE SHALL BE # 5 @ 8 IN E.W.
9. MANUFACTURED WATER TIGHT CONNECTOR BETWEEN PRECAST BASE SECTION TO HOLE AND INSTALL PER MANUFACTURERS RECOMMENDATIONS.
10. PROVIDE BACKFILL TO MATCH ADJACENT PIPE TRENCH BACKFILL PER COH STANDARD SPECIFICATION.

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION

SANITARY SEWER
4'-0" DIAMETER FIBERGLASS MANHOLE
(NOT TO SCALE)

APPROVED BY: City Engineer — APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: OCT-01-2002 DWG NO: 02083-01

Date: Apr 07, 2026
File: C:\Google Drive\WD Engineering\Projects\SLI\SLI143\C07wtr\SLI143.dwg



TYPICAL CONCRETE ROADWAY WIDENING DETAIL

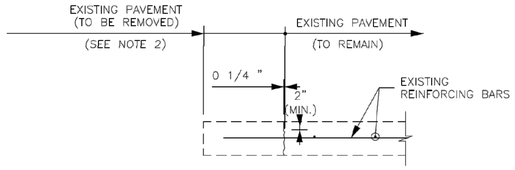
SCALE: 1" = 1'-6"

TABLE 1
(CONSTRUCTION JOINT DOWELS)

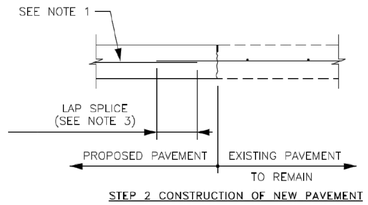
DOWEL SIZE	PAVEMENT DEPTH
#4 BAR	< 6"
#5 BAR	6" ≤ D < 9"
#6 BAR	≥ 9"
DOWEL SHALL BE DRILLED INTO EXISTING PAVEMENT (MIN. 10", MAX. 12") AND EPOXIED. (SEE HC ITEM 361.3)	

EXPANSION JOINT DOWELS 12" O.C.

PAVEMENT THICKNESS (D)	DOWEL DIA.
6"	3/4"
7"	1"
8"	1"
9" & 10"	1 1/4"



STEP 1 DEMOLITION OF EXISTING PAVEMENT



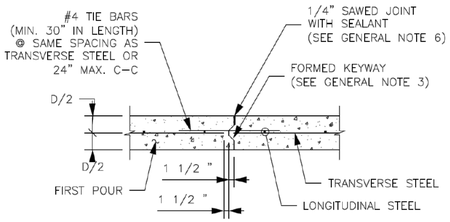
STEP 2 CONSTRUCTION OF NEW PAVEMENT

CONCRETE TO CONCRETE STANDARD PAVEMENT TIE-IN

SCALE: 1" = 1'-6"

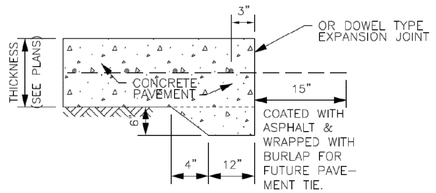
NOTES FOR STANDARD PAVEMENT TIE-IN:

1. REINFORCING CENTERED IN PROPOSED PAVEMENT, 3" CLEAR AT EDGES.
2. ONLY FULL DEPTH SAWCUTS WILL BE ALLOWED
3. USE FULL DEPTH SAWCUT WITH DRILLED IN DOWELS (AS SHOWN IN THE "TYPICAL CONCRETE ROADWAY WIDENING DETAIL" ON THIS SHEET. THE SAWCUTTING AND DOWELS WILL BE AT CONTRACTOR'S EXPENSE.
4. ALL PAVEMENT CONCRETE SHALL BE 5½ SACK PER CY, 3500, PSI AT 28 DAYS
5. SIZE OF DOWEL BARS SHALL CONFORM TO TABLE 1. DOWELS SHALL BE PLACED 24" CENTER TO CENTER OR MATCH EXISTING, IF CLOSER



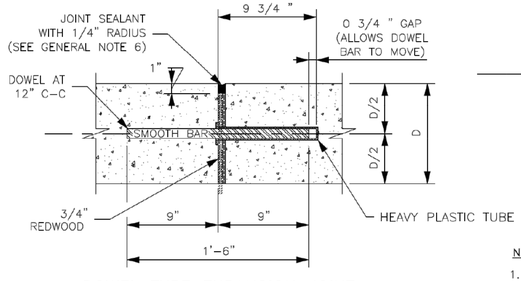
LONGITUDINAL CONSTRUCTION JOINT

SCALE: 1" = 1'-6"



PAVEMENT HEADER

REQUIRES FBC APPROVAL

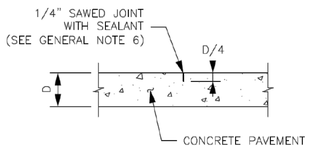


DOWEL TYPE EXPANSION JOINT

SCALE: 1" = 6"

NOTES FOR DOWEL EXPANSION JOINT:

1. EXPANSION JOINT SHALL BE PLACED AT THE END OF EACH CURB RADIUS AND SPACED AT A MAXIMUM DISTANCE OF 60 FEET.
2. CENTER DOWEL HORIZONTALLY ON JOINT.
3. EXPANSION JOINT BARS SHALL BE HELD PARALLEL TO THE FINISHED CONCRETE SURFACE.

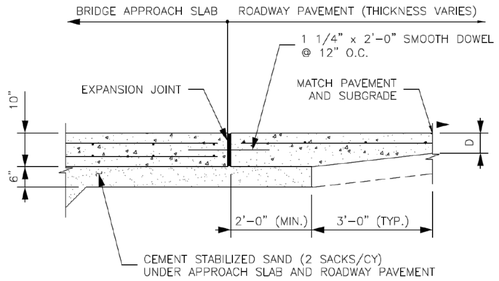


CONTRACTION JOINT (SAWED)

SCALE: 1" = 1'-6"

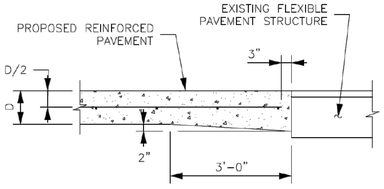
NOTE FOR CONTRACTION JOINT:

1. 20'-0" MAXIMUM SPACING BETWEEN JOINTS.



TYPICAL SECTION PAVING TIE-IN TO BRIDGE APPROACH SLAB

SCALE: 1" = 1'-6"



TYPICAL PAVING HEADER

SCALE: 1" = 1'-6"

NOTES FOR PAVING HEADER:

1. ADDITIONAL CONCRETE FOR PAVING HEADER SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAVING BID ITEMS.
2. DISTURBED MATERIAL IN THE FLEXIBLE PAVEMENT WILL BE BACKFILLED WITH ASPHALT CONCRETE PAVEMENT (ACP). THE ACP WILL BE CONSIDERED INCIDENTAL TO VARIOUS PAVING BID ITEMS.

GENERAL NOTES:

1. FOR FURTHER INFORMATION REGARDING THE PLACEMENT OF CONCRETE AND REINFORCING, REFER TO HC ITEM 360 HARRIS COUNTY SPECIFICATIONS
2. THE CHAIRS USED TO SUPPORT THE BAR MATS SHALL BE OF SUFFICIENT STRUCTURAL QUALITY AND NUMBER TO HOLD THE MAT WITHIN THE PLACEMENT HEIGHT, AND SHALL BE OF A TYPE APPROVED BY THE ENGINEER. SPACING OF BAR SUPPORT CHAIRS SHALL BE 3'-0" MAXIMUM.
3. SAWED CONTRACTION JOINTS SHALL BE USED FOR LONGITUDINAL JOINTS WHEREVER MORE THAN ONE LANE WIDTH IS PLACED IN A SINGLE POUR. KEYED CONSTRUCTION JOINTS SHALL BE USED AT ALL OTHER JOINTS.
4. ALL SAW CUTTING SHOWN ON THIS DETAIL SHALL BE INCIDENTAL TO HC ITEM 360 "CONCRETE PAVEMENT".
5. D = THICKNESS OF CONCRETE PAVEMENT.
   - FOR DEVELOPMENT PROJECTS SEE REGULATIONS OF FORT BEND COUNTY, TEXAS FOR THE APPROVAL AND ACCEPTANCE OF INFRASTRUCTURE.
6. ALL CONSTRUCTION JOINTS SHALL BE SEALED. JOINT SEALANT SHALL CONFORM TO THE REQUIREMENTS OF HC ITEM 360
7. NO TRAFFIC ON CONCRETE PAVEMENT UNTIL 7 DAYS CURE TIME AND 3,500 PSI HAS BEEN REACHED.
8. MEMBRANE CURING HC ITEM 802.

NO.	REVISIONS	DATE	NAME
1	ORIGINAL STANDARD ISSUED	3-1-22	RJS
2	REMOVED UNDERCUT DETAIL, ADDED NOTE 8	10-1-24	RJS

FORT BEND COUNTY
ENGINEERING DEPARTMENT

THE STATE OF TEXAS · FORT BEND COUNTY

PROJECT TITLE:

DRAWN BY: INIT		FBCED STANDARD
CK'D BY: INIT	SHEET DESCRIPTION: CONCRETE PAVEMENT DETAILS	05
SCALE: AS NOTED	SHEET 1 OF 3	SHEET NO: /
DATE: 10-1-24	APPROVED BY:	

THESE DETAILS SUPERCEDE OTHER DETAILS

FBC Engineering Approval

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FORT BEND CONCRETE PAVEMENT DETAILS

C1.08

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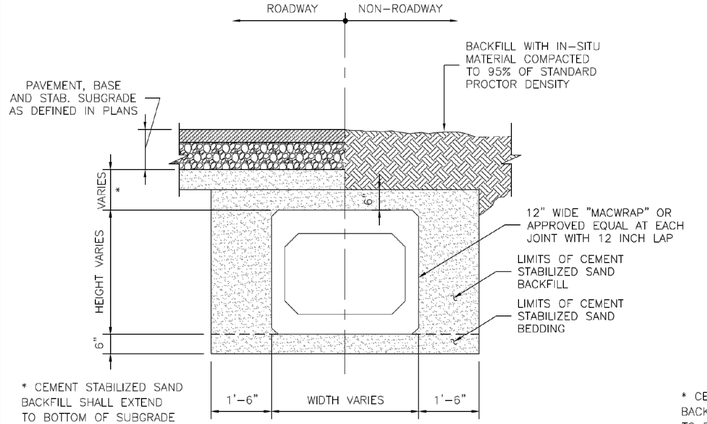
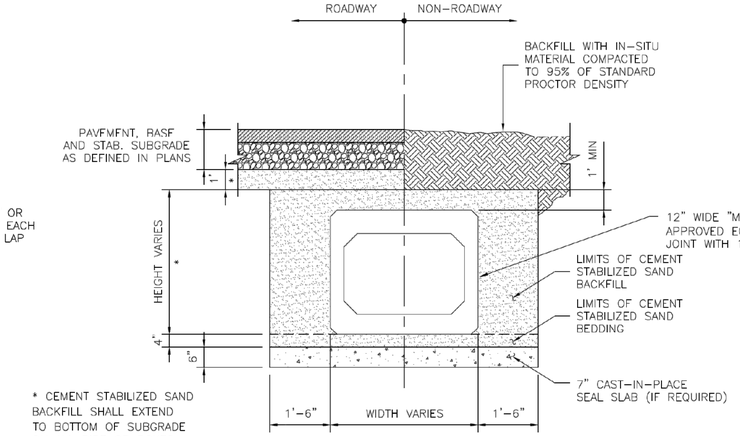
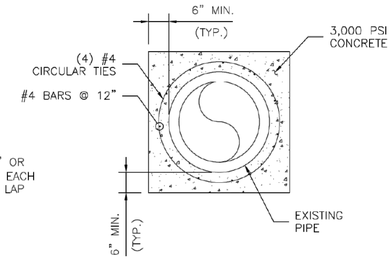
Date: Apr 07, 2026
File: C:\Google Drive\WD Engineering\Projects\SLI\SLI143\C08parxSLI143.dwg



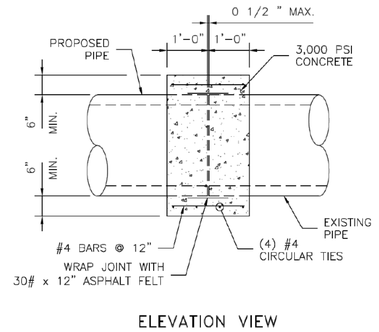
PRECAST REINFORCED CONCRETE BOX



PRECAST REINFORCED CONCRETE BOX WITH SEAL SLAB



SECTION VIEW

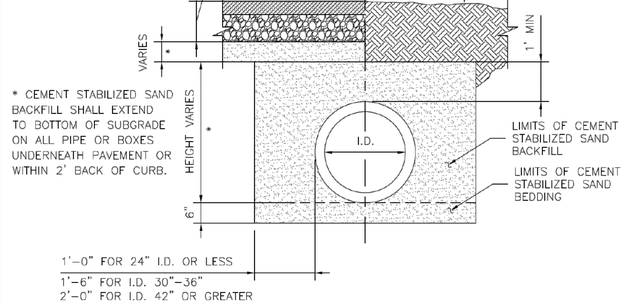


ELEVATION VIEW

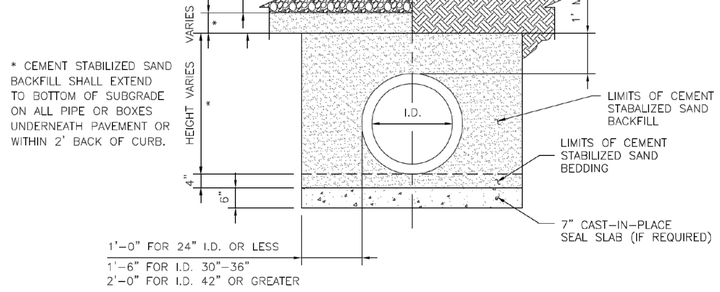
TYPICAL CONCRETE COLLAR FOR 36" & SMALLER RCP

GENERAL NOTES:

1. FOR RCP LARGER THAN 36" DIAMETER, CONCRETE COLLARS MUST BE DESIGNED BY THE ENGINEER OF RECORD.
2. ALL TRENCHES IN ROW SHALL BE BACKFILLED WITH 2 SACKS/CY CEMENT STABILIZED SAND (HC ITEM 400) TO SUBGRADE. COMPACTED TO 95% STANDARD PROCTOR DENSITY BOTTOM OF SUBGRADE
3. CEMENT STABILIZED SAND IS INCIDENTAL TO INSTALLATION
4. USE OF POLYPROPYLENE PIPE SHALL FOLLOW HC SPEC ITEM 482 AND MUST ALSO BE APPROVED BY THE AGENCY THAT WILL MAINTAIN IT. ALL JOINTS SHALL BE WATER TIGHT AND BEDDING REQUIREMENTS SHALL FOLLOW HC ITEM SPEC ITEM 400.
5. ALL OUTFALLS INTO FBC MAINTAINED DRAINAGE FACILITIES SHALL BE POLYMER COATED CMP, RCP, OR RCB, AS APPLICABLE.



REINFORCED CONCRETE PIPE & POLYPROPYLENE (GRAY) PIPE
SEE NOTE 4



REINFORCED CONCRETE PIPE WITH SEAL SLAB

NO.	REVISIONS	DATE	NAME
1	ORIGINAL STANDARD ISSUED	3-1-22	RJS
2	ADDED NOTE 3,4,5, & REV. DETAILS	10-1-24	RJS
3			
4			
5			

FORT BEND COUNTY
ENGINEERING DEPARTMENT

PROJECT TITLE:		
DRAWN BY: INIT		FBCED STANDARD
CK'D BY: INIT	SHEET DESCRIPTION: STORM SEWER CONSTRUCTION	19
SCALE: 1"=1'-6"	DETAILS	SHEET NO:
DATE: 10-1-24	APPROVED BY:	/

THESE DETAILS SUPERCEDE OTHER DETAILS

FBC Engineering Approval

ISSUE FOR BID 04/07/2026

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04/07/2026
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Katy Fulshear
26620 FM 1093
Katy, Texas 77494

FORT BEND STORM SEWER CONSTRUCTION DETAILS

C1.09

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Date: Apr 07, 2026
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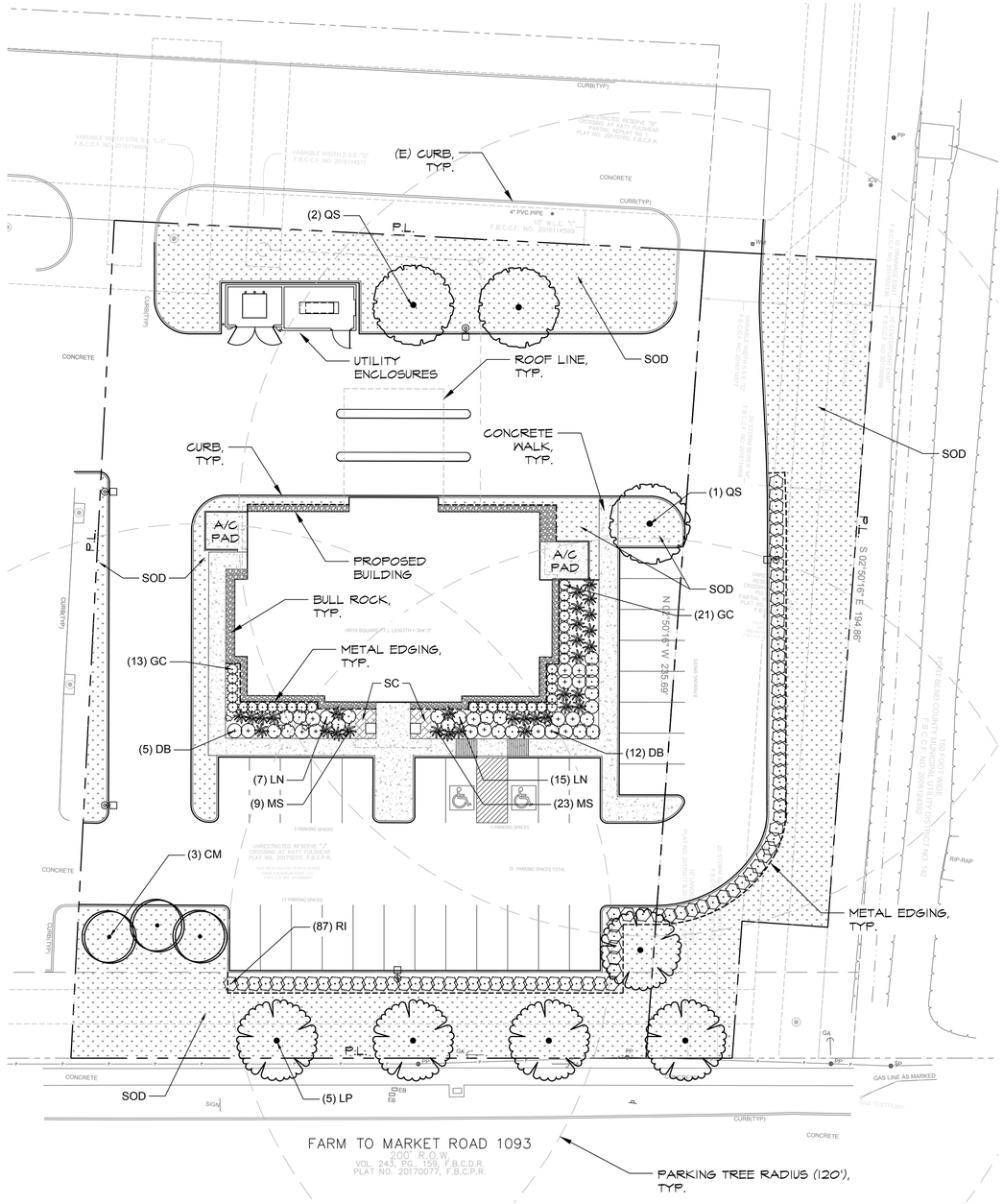


PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CAL.
STREET TREES				
	LP	5	Pinus taeda Loblolly Pine	3" CAL.
CANOPY TREES				
	QS	3	Quercus shumardii Shumard Oak	Min. 8' Ht.
SHADE / ORNAMENTAL TREES				
	CM	3	Lagerstroemia indica Crape Myrtle	Min. 8' Ht.

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	SPACING
SCREENING SHRUBS					
	RI	87	Rhaphiolepis indica Indian Hawthorn	5 GAL / 18" Ht. Min.	36" OC
ORNAMENTAL SHRUBS & GRASSES					
	DB	17	Dietes bicolor Bicolor African Iris	3 GAL / 18" Ht. Min.	36" OC
	LN	22	Lantana 'New Gold' New Gold Lantana	3 GAL / 18" Ht. Min.	36" OC
	GC	34	Salvia clevelandii 'Green Cloud' Green Cloud Purple Sage	3 GAL / 18" Ht. Min.	36" OC
	MS	32	Miscanthus sinensis 'Adagio' Dwarf Maiden Grass	3 GAL / 18" Ht. Min.	36" OC
SEASONAL COLOR					
	SC	85 sf	Varies	4" Cont.	12" OC
SOD/SEED					
	SOD	14,945 sf	Cynodon 'TifTuf' TifTuf Hybrid Bermuda Grass		

THE CROSSING AT KATY - FULSHEAR GUIDELINES

Table 4 - Minimum Specifications for Plant Materials

Plant Category	Required Amount	Minimum Size	Comments	Provided
Shade Trees	1 per 20 Parking Spaces	3" Caliper at 12" above root crown, with matching heights	Stake Trees for 1 Year From Planting	30 Spaces Required: 30 / 20 = 1.5 **2 Shade Trees**
Ornamental Trees	1 per 6 Parking Spaces	8 ft. minimum height	Stake Trees for 1 Year From Planting	30 Spaces Required: 30 / 6 = 5 **5 Ornamental Trees**
Screening Shrubs	3 Per Parking Space	5 Gallon	Screen Parking From Public Roadways and Private Drives	30 Spaces Required: 30 x 3 = 90 **90 Screening Shrubs**
Ornamental Shrubs and Grasses	3 Per Parking Space	1 Gallon	For Plantings Around the Building and Building Entry	30 Spaces Required: 30 x 3 = 90 **90 Ornamental Shrubs**
Ground Cover	No Minimum	1 Gallon	For Plantings Around the Building and Building Entry	**No Minimum**
Seasonal Color	No Minimum	4" Pot	For Plantings Around the Building and Building Entry	**No Minimum**

CITY OF HOUSTON
DEPARTMENT OF PLANNING & DEVELOPMENT

LANDSCAPE ANALYSIS FORM

Non-Single Family Residential

(Staff may create an artificial lot)

A. STREET TREES: Sec. 33-126 (a)

Length of property line in lineal feet as measured along each street separately.
Lineal feet of property / 30 = Total Street Trees.

STREET NAME	LINEAL FEET	STREET TREES
ROAD 1093	192 lf	7
(A1) TOTAL STREET TREES		7

Total number of street trees: 7 - 0 credits from below = 7 street trees required.
Maximum street tree credits can not exceed 50% of each block face.

B. PARKING LOT TREES: Sec. 33-127 (a)
Each parking space must be within 120' of a tree.

(B1) Number of new parking spaces to be constructed 30 / 10 = 3 parking lot trees.

Total number of parking lot trees: 3 - 0 credits from below = 3 parking lot trees required.

C. SHRUBS: Sec. 33-127 (b)
75% of the shrubs must be planted along the perimeter of the parking lot.
(Shrubs are required for new or the expanded portion of parking lots)

Total number of street trees required, from (A1) above 7 x 10 = 70 shrubs required.

D. LANDSCAPE BUFFER:
Sec. 33-128 (1) Wood, concrete masonry opaque screening fence. (Min. 6')
Sec. 33-128 (2) Evergreen screening.
A 6' high wood, concrete masonry opaque screening fence, or 15' wide evergreen planting strip along the total length of property line adjacent to existing single family residential, or limit of expansion adjacent to existing single family residential. *(Site plan must show land use on all sides of the property)*

SEC. 33-123 (a) TREE PLANTING EQUIVALENCY CREDITS:
1. Number of proposed trees exceeding 4" in caliper 0 x 2 = 0 credits.
2. Depositing of monies with Parks and Recreation Department.
   $500.00 per tree. Proposed credits cannot exceed 30% of (A1) and (B1) above.
   Amount to be deposited: Proposed credits 0 x $500.00 = $0.00
   The combined credit under items 1 & 2 may not exceed 50% of the total tree planting requirement.
3. Preservation of on-site trees, per the following schedule in caliper:
   minimum 4" to 6" 2 tree credits x 0 trees
   greater than 6" but less than 12" 3 tree credits x 0 trees
   12" and greater 4 tree credits x 0 trees
   Total number of tree credit for this option. 36 trees.
4. Credit for preserving existing right-of-way street trees. 0 trees.
5. Proposed total number of tree credits. 1 + 2 + 3 + 4 = 0 trees.
   (To receive credits documentation must be provided in conformance with Section 33-122)

GENERAL GRADING AND PLANTING NOTES

1. BY SUBMITTING A PROPOSAL FOR THE LANDSCAPE PLANTING SCOPE OF WORK, THE CONTRACTOR CONFIRMS THAT HE HAS READ, AND WILL COMPLY WITH, THE ASSOCIATED NOTES, SPECIFICATIONS, AND DETAILS WITH THIS PROJECT.
2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING VEGETATION (EXCEPT WHERE NOTED TO REMAIN).
3. IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
   a. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
   b. CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
   c. THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED (**BASED ON A SOIL TEST**, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.
   d. ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
   e. ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
   f. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.
4. ALL PLANT LOCATIONS ARE DIAGRAMMATIC. ACTUAL LOCATIONS SHALL BE VERIFIED WITH THE LANDSCAPE ARCHITECT OR DESIGNER PRIOR TO PLANTING. THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT ALL REQUIREMENTS OF THE PERMITTING AUTHORITY ARE MET (I.E., MINIMUM PLANT QUANTITIES, PLANTING METHODS, TREE PROTECTION METHODS, ETC.).
   a. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR DETERMINING PLANT QUANTITIES; PLANT QUANTITIES SHOWN ON LEGENDS AND CALLOUTS ARE FOR GENERAL INFORMATION ONLY. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLAN AND THE PLANT LEGEND, THE PLANT QUANTITY AS SHOWN ON THE PLAN (FOR INDIVIDUAL SYMBOLS) OR CALLOUT (FOR GROUNDCOVER PATTERNS) SHALL TAKE PRECEDENCE.
   b. **NO SUBSTITUTIONS OF PLANT MATERIALS SHALL BE ALLOWED WITHOUT THE WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT.** IF SOME OF THE PLANTS ARE NOT AVAILABLE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING (VIA PROPER CHANNELS).
   c. THE CONTRACTOR SHALL, AT A MINIMUM, PROVIDE REPRESENTATIVE PHOTOS OF ALL PLANTS PROPOSED FOR THE PROJECT. THE CONTRACTOR SHALL ALLOW THE LANDSCAPE ARCHITECT AND THE OWNER/OWNER'S REPRESENTATIVE TO INSPECT, AND APPROVE OR REJECT, ALL PLANTS DELIVERED TO THE JOBSITE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBMITTALS.
5. CONTRACTOR SHALL PROVIDE AND INSTALL SOLID SOD IN ALL RIGHT-OF-WAYS AND PARKWAYS (UNLESS NOT ALLOWED BY THE LOCAL JURISDICTION) AND SHALL PROVIDE WATERING AND MAINTENANCE UNTIL THE TURF IS ESTABLISHED AND HAS BEEN ACCEPTED BY OWNER.
6. THE CONTRACTOR SHALL MAINTAIN THE LANDSCAPE IN A HEALTHY CONDITION FOR 90 DAYS AFTER ACCEPTANCE BY THE OWNER. REFER TO SPECIFICATIONS FOR CONDITIONS OF ACCEPTANCE FOR THE START OF THE MAINTENANCE PERIOD, AND FOR FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD.
7. AFTER FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD, CONTRACTOR IS TO PROVIDE SUGGESTED MAINTENANCE, WATERING SCHEDULE, WEEDING SCHEDULE, AND FERTILIZATION SCHEDULE.
8. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.

IRRIGATION CONCEPT

1. AN AUTOMATIC IRRIGATION SYSTEM SHALL BE INSTALLED AND OPERATIONAL BY THE TIME OF FINAL INSPECTION. THE ENTIRE IRRIGATION SYSTEM SHALL BE INSTALLED BY A LICENSED AND QUALIFIED IRRIGATION CONTRACTOR.
2. THE IRRIGATION SYSTEM WILL OPERATE ON POTABLE WATER, AND THE SYSTEM WILL HAVE APPROPRIATE BACKFLOW PREVENTION DEVICES INSTALLED TO PREVENT CONTAMINATION OF THE POTABLE SOURCE.
3. ALL NON-TURF PLANTED AREAS SHALL BE DRIP IRRIGATED. SODDED AND SEEDED AREAS SHALL BE IRRIGATED WITH SPRAY OR ROTOR HEADS AT 100% HEAD-TO-HEAD COVERAGE.
4. ALL PLANTS SHARING SIMILAR HYDROZONE CHARACTERISTICS SHALL BE PLACED ON A VALVE DEDICATED TO PROVIDE THE NECESSARY WATER REQUIREMENTS SPECIFIC TO THAT HYDROZONE.
5. THE IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED, TO THE MAXIMUM EXTENT POSSIBLE, TO CONSERVE WATER BY USING THE FOLLOWING DEVICES AND SYSTEMS: MATCHED PRECIPITATION RATE TECHNOLOGY ON ROTOR AND SPRAY HEADS (WHEREVER POSSIBLE), RAIN SENSORS, AND MULTI-PROGRAM COMPUTERIZED IRRIGATION CONTROLLERS FEATURING SENSORY INPUT CAPABILITIES.

ROOT BARRIERS

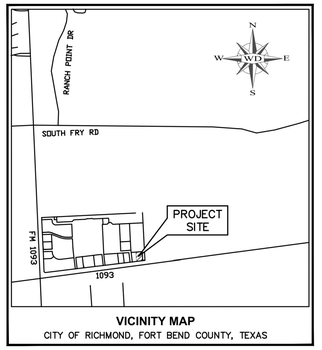
THE CONTRACTOR SHALL INSTALL ROOT BARRIERS NEAR ALL NEWLY-PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING, CURBS, WATER, STORM, OR SANITARY SEWER UTILITIES. ROOT BARRIERS SHALL BE "CENTURY" OR "DEEP-ROOT" 24" DEEP PANELS (OR EQUAL). BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDSCAPE. INSTALL PANELS PER MANUFACTURER'S RECOMMENDATIONS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCIRCLE THE ROOTBALL.

MULCHES

AFTER ALL PLANTING IS COMPLETE, CONTRACTOR SHALL INSTALL 2" THICK LAYER OF 1-1/2" SHREDDED WOOD MULCH, NATURAL (UNDYED), OVER LANDSCAPE FABRIC IN ALL PLANTING AREAS (EXCEPT FOR TURF AND SEEDED AREAS). CONTRACTOR SHALL SUBMIT SAMPLES OF ALL MULCHES TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO CONSTRUCTION. ABSOLUTELY NO EXPOSED GROUND SHALL BE LEFT SHOWING ANYWHERE ON THE PROJECT AFTER MULCH HAS BEEN INSTALLED (SUBJECT TO THE CONDITIONS AND REQUIREMENTS OF THE "GENERAL GRADING AND PLANTING NOTES" AND SPECIFICATIONS).

PLANTING & IRRIGATION GUARANTEE

THE LANDSCAPE CONTRACTOR SHALL GUARANTEE THAT ALL NEWLY INSTALLED AND EXISTING PLANTS SHALL SURVIVE FOR ONE YEAR AFTER FINAL OWNER ACCEPTANCE OF THE INSTALLATION WORK. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR APPROPRIATE WATERING OF THE LANDSCAPE THROUGH INSTALLATION OF A PROPERLY DESIGNED IRRIGATION SYSTEM. THE OWNER SHALL APPROVE THE SYSTEM DESIGN BEFORE INSTALLATION OF PLANTS OR IRRIGATION.



VICINITY MAP
CITY OF RICHMOND, FORT BEND COUNTY, TEXAS

NORTH

0' 10' 20' 40'

Scale 1" = 20'

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

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STATE OF TEXAS
03/20/2026

SHELL FEDERAL CREDIT UNION
KATY-FULSHEAR
26620 FM 1093
RICHMOND, TEXAS 77406

LANDSCAPE PLAN

Date	Comment

Project Number	
Date	03/20/2026
Drawn By	GL
Checked By	SS

LP-1

PLANTING SPECIFICATIONS

GENERAL

A. QUALIFICATIONS OF LANDSCAPE CONTRACTOR
1. ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM SPECIALIZING IN LANDSCAPE PLANTING.
2. A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES.
3. THE LANDSCAPE CONTRACTOR SHALL HOLD A VALID NURSERY AND FLORAL CERTIFICATE ISSUED BY THE TEXAS DEPARTMENT OF AGRICULTURE, AS WELL AS OPERATE UNDER A COMMERCIAL PESTICIDE APPLICATOR LICENSE ISSUED BY EITHER THE TEXAS DEPARTMENT OF AGRICULTURE OR THE TEXAS STRUCTURAL PEST CONTROL BOARD.

B. SCOPE OF WORK
1. WORK COVERED BY THESE SECTIONS INCLUDES THE FURNISHING AND PAYMENT OF ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND / OR SHOWN ON THE LANDSCAPE PLANS, NOTES, AND DETAILS.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.
3. THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF ANY WORK.

PRODUCTS

A. ALL MANUFACTURED PRODUCTS SHALL BE NEW.

B. CONTAINER AND BALLED-AND-BURLAPPED PLANTS:
1. FURNISH NURSERY-GROWN PLANTS COMPLYING WITH ANSI Z60.1-2014. PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. ALL PLANTS WITHIN A SPECIES SHALL HAVE SIMILAR SIZE, AND SHALL BE OF A FORM TYPICAL FOR THE SPECIES. ALL TREES SHALL BE OBTAINED FROM SOURCES WITHIN 200 MILES OF THE PROJECT SITE, AND WITH SIMILAR CLIMACTIC CONDITIONS.
2. ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED ROOT SYSTEMS, NON-POT-BOUND, FREE FROM ENCIRCLING AND/OR GIRDLING ROOTS, AND FREE FROM ANY OTHER ROOT DEFECTS (SUCH AS J-SHAPED ROOTS).
3. ANY PLANT DEEMED UNACCEPTABLE BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND SHALL BE REPLACED WITH AN ACCEPTBLE PLANT OF LIKE TYPE AND SIZE AT THE CONTRACTOR'S OWN EXPENSE. ANY PLANTS APPEARING TO BE UNHEALTHY, EVEN IF DETERMINED TO STILL BE ALIVE, SHALL NOT BE ACCEPTED. THE LANDSCAPE ARCHITECT AND OWNER SHALL BE THE SOLE JUDGES AS TO THE ACCEPTABILITY OF PLANT MATERIAL.
4. ALL TREES SHALL BE STANDARD IN FORM, UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS AFTER PLANTING.
5. CALIPER MEASUREMENTS FOR STANDARD (SINGLE TRUNK) TREES SHALL BE AS FOLLOWS: SIX INCHES ABOVE THE ROOT FLARE FOR TREES UP TO AND INCLUDING FOUR INCHES IN CALIPER, AND TWELVE INCHES ABOVE THE ROOT FLARE FOR TREES EXCEEDING FOUR INCHES IN CALIPER.
6. MULTI-TRUNK TREES SHALL BE MEASURED BY THEIR OVERALL HEIGHT, MEASURED FROM THE TOP OF THE ROOT BALL.
7. ANY TREE OR SHRUB SHOWN TO HAVE EXCESS SOIL PLACED ON TOP OF THE ROOT BALL, SO THAT THE ROOT FLARE HAS BEEN COMPLETELY COVERED, SHALL BE REJECTED.

C. SOD: PROVIDE WELL-ROOTED SOD OF THE VARIETY NOTED ON THE PLANS. SOD SHALL BE CUT FROM HEALTHY, MATURE TURF WITH SOIL THICKNESS OF 3/4" TO 1". EACH PALLET OF SOD SHALL BE ACCOMPANIED BY A CERTIFICATE FROM SUPPLIER STATING THE COMPOSITION OF THE SOD.

D. SEED: PROVIDE BLEND OF SPECIES AND VARIETIES AS NOTED ON THE PLANS, WITH MAXIMUM PERCENTAGES OF PURITY, GERMINATION, AND MINIMUM PERCENTAGE OF WEED SEED AS INDICATED ON PLANS. EACH BAG OF SEED SHALL BE ACCOMPANIED BY A TAG FROM THE SUPPLIER INDICATING THE COMPOSITION OF THE SEED.

E. TOPSOIL: SANDY TO CLAY LOAM TOPSOIL, FREE OF STONES LARGER THAN ½ INCH, FOREIGN MATTER, PLANTS, ROOTS, AND SEEDS.

F. COMPOST: WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER, pH RANGE OF 5.5 TO 8; MOISTURE CONTENT 35 TO 55 PERCENT BY WEIGHT; 100 PERCENT PASSING THROUGH 3/4-INCH SIEVE; SOLUBLE SALT CONTENT OF 5 TO 10 DECISIEMENS/M; NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS. NO MANURE OR ANIMAL-BASED PRODUCTS SHALL BE USED.

G. FERTILIZER: GRANULAR FERTILIZER CONSISTING OF NITROGEN, PHOSPHORUS, POTASSIUM, AND OTHER NUTRIENTS IN PROPORTIONS, AMOUNTS, AND RELEASE RATES RECOMMENDED IN A SOIL REPORT FROM A QUALIFIED SOIL-TESTING AGENCY (SEE BELOW).

H. MULCH: SIZE AND TYPE AS INDICATED ON PLANS, FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS.

I. WEED FABRIC: 5 OUNCE, WOVEN, NEEDLE-PUNCHED FABRIC, SUCH AS DEWITT PRO5 LANDSCAPE FABRIC (OR APPROVED EQUAL).

J. TREE STAKING AND GUYING
1. STAKES: 6' LONG GREEN METAL T-POSTS.
2. GUY AND TIE WIRE: ASTM A 641, CLASS 1, GALVANIZED-STEEL WIRE, 2-STRAND, TWISTED, 0.106 INCH DIAMETER.
3. STRAP CHAFING GUARD: REINFORCED NYLON OR CANVAS AT LEAST 1-1/2 INCH WIDE, WITH GROMMETS TO PROTECT TREE TRUNKS FROM DAMAGE.

M. STEEL EDGING: PROFESSIONAL STEEL EDGING, 10 GAUGE THICK X 4 INCHES WIDE, FACTORY PAINTED DARK GREEN. ACCEPTABLE MANUFACTURERS INCLUDE COL-MET OR APPROVED EQUAL.

N. PRE-EMERGENT HERBICIDES: ANY GRANULAR, NON-STAINING PRE-EMERGENT HERBICIDE THAT IS LABELED FOR THE SPECIFIC ORNAMENTALS OR TURF ON WHICH IT WILL BE UTILIZED. PRE-EMERGENT HERBICIDES SHALL BE APPLIED PER THE MANUFACTURER'S LABELED RATES.

METHODS

A. SOIL PREPARATION
1. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD ANY DISCREPANCIES EXIST.
2. SOIL TESTING:
   a. AFTER FINISH GRADES HAVE BEEN ESTABLISHED, CONTRACTOR SHALL HAVE SOIL SAMPLES TESTED BY AN ESTABLISHED SOIL TESTING LABORATORY FOR THE FOLLOWING: SOIL TEXTURAL CLASS, GENERAL SOIL FERTILITY, pH, ORGANIC MATTER CONTENT, SALT (CEC), LIME, SODIUM ADSORPTION RATIO (SAR) AND BORON CONTENT. EACH SAMPLE SUBMITTED SHALL CONTAIN NO LESS THAN ONE QUART OF SOIL.
   b. CONTRACTOR SHALL ALSO SUBMIT THE PROJECT'S PLANT LIST TO THE LABORATORY ALONG WITH THE SOIL SAMPLES.
   c. THE SOIL REPORT PRODUCED BY THE LABORATORY SHALL CONTAIN RECOMMENDATIONS FOR THE FOLLOWING (AS APPROPRIATE): GENERAL SOIL PREPARATION AND BACKFILL MIXES, PRE-PLANT FERTILIZER APPLICATIONS, AND ANY OTHER SOIL RELATED ISSUES. THE REPORT SHALL ALSO PROVIDE A FERTILIZER PROGRAM FOR THE ESTABLISHMENT PERIOD AND FOR LONG-TERM MAINTENANCE.
3. THE CONTRACTOR SHALL INSTALL SOIL AMENDMENTS AND FERTILIZERS PER THE SOILS REPORT RECOMMENDATIONS. ANY CHANGE IN COST DUE TO THE SOIL REPORT RECOMMENDATIONS, EITHER INCREASE OR DECREASE, SHALL BE SUBMITTED TO THE OWNER WITH THE REPORT.
4. FOR BIDDING PURPOSES ONLY, THE SOIL PREPARATION SHALL CONSIST OF THE FOLLOWING:
   a. TURF: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
      i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.
      ii. PREPLANT TURF FERTILIZER (10-20-10 OR SIMILAR, SLOW RELEASE, ORGANIC) - 15 LBS PER 1,000 S.F.
      iii. "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE
   b. TREES, SHRUBS, AND PERENNIALS: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
      i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.
      ii. 12-12-12 FERTILIZER (OR SIMILAR, ORGANIC, SLOW RELEASE) - 10 LBS. PER CU. YD.
      iii. "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE
      iv. IRON SULPHATE - 2 LBS. PER CU. YD.
5. CONTRACTOR SHALL ENSURE THAT THE GRADE IN SOD AREAS SHALL BE 1" BELOW FINISH GRADE BEFORE INSTALLING SOIL AMENDMENTS, AND 2" BELOW FINISH GRADE IN SHRUB AREAS BEFORE INSTALLING SOIL AMENDMENTS. MULCH COVER WITHIN 6" OF CONCRETE WALKS AND CURBS SHALL NOT PROTRUDE ABOVE THE FINISH SURFACE OF THE WALKS AND CURBS. MULCH COVER WITHIN 12" OF WALLS SHALL BE AT LEAST 3" LOWER THAN THE TOP OF WALL.
6. ONCE SOIL PREPARATION IS COMPLETE, THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT THERE ARE NO DEBRIS, TRASH, OR STONES LARGER THAN 1" REMAINING IN THE TOP 6" OF SOIL.

B. GENERAL PLANTING
1. REMOVE ALL NURSERY TAGS AND STAKES FROM PLANTS.
2. EXCEPT IN AREAS TO BE PLANTED WITH ORNAMENTAL GRASSES, APPLY PRE-EMERGENT HERBICIDES AT THE MANUFACTURER'S RECOMMENDED RATE.
3. TRENCHING NEAR EXISTING TREES:
   a. CONTRACTOR SHALL NOT DISTURB ROOTS 1-1/2" AND LARGER IN DIAMETER WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES, AND SHALL EXERCISE ALL POSSIBLE CARE AND PRECAUTIONS TO AVOID INJURY TO TREE ROOTS, TRUNKS, AND BRANCHES. THE CRZ IS DEFINED AS A CIRCULAR AREA EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS EQUAL TO 1' FOR EVERY 1" OF TRUNK DIAMETER-AT-BREAST-HEIGHT (4.5' ABOVE THE AVERAGE GRADE AT THE TRUNK).
   b. ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE EXCAVATION OR TRENCHING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ.
   c. ALTER ALIGNMENT OF PIPE TO AVOID TREE ROOTS 1-1/2" AND LARGER IN DIAMETER. WHERE TREE ROOTS 1-1/2" AND LARGER IN DIAMETER ARE ENCOUNTERED IN THE FIELD, TUNNEL UNDER SUCH ROOTS. WRAP EXPOSED ROOTS WITH SEVERAL LAYERS OF BURLAP AND KEEP MOIST. CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS.
   d. ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO AIR-DRY. DO NOT USE ANY SORT OF SEALERS OR WOUND PAINTS.

C. TREE PLANTING
1. TREE PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL LESS TWO TO FOUR INCHES.
2. SCARIFY THE SIDES AND BOTTOM OF THE PLANTING HOLE PRIOR TO THE PLACEMENT OF THE TREE. REMOVE ANY GLAZING THAT MAY HAVE BEEN CAUSED DURING THE EXCAVATION OF THE HOLE.
3. FOR CONTAINER AND BOX TREES, TO REMOVE ANY POTENTIALLY GIRDLING ROOTS AND OTHER ROOT DEFECTS, THE CONTRACTOR SHALL SHAVE A 1" LAYER OFF OF THE SIDES AND BOTTOM OF THE ROOTBALL OF ALL TREES JUST BEFORE PLACING INTO THE PLANTING PIT. DO NOT "TEASE" ROOTS OUT FROM THE ROOTBALL.
4. INSTALL THE TREE ON UNDISTURBED SUBGRADE SO THAT THE TOP OF THE ROOTBALL IS TWO TO FOUR INCHES ABOVE THE SURROUNDING GRADE.
5. BACKFILL THE TREE HOLE UTILIZING THE EXISTING TOPSOIL FROM ON-SITE. ROCKS LARGER THAN 1" DIA. AND ALL OTHER DEBRIS SHALL BE REMOVED FROM THE SOIL PRIOR TO THE BACKFILL. SHOULD ADDITIONAL SOIL BE REQUIRED TO ACCOMPLISH THIS TASK, USE STORED TOPSOIL FROM ON-SITE OR IMPORT ADDITIONAL TOPSOIL FROM OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IMPORTED TOPSOIL SHALL BE OF SIMILAR TEXTURAL CLASS AND COMPOSITION IN THE ON-SITE SOIL.
6. THE TOTAL NUMBER OF TREE STAKES (BEYOND THE MINIMUMS LISTED BELOW) WILL BE LEFT TO THE LANDSCAPE CONTRACTOR'S DISCRETION. SHOULD ANY TREES FALL OR LEAN, THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN THE TREE, OR REPLACE IT SHOULD IT BECOME DAMAGED. TREE STAKING SHALL ADHERE TO THE FOLLOWING GUIDELINES:

a.	1"-2" TREES	TWO STAKES PER TREE
b.	2-1/2"-4" TREES	THREE STAKES PER TREE
c.	TREES OVER 4" CALIPER	GUY AS NEEDED
d.	MULTI-TRUNK TREES	THREE STAKES PER TREE MINIMUM, QUANTITY AND POSITIONS AS NEEDED TO STABILIZE THE TREE

7. UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE. COVER THE INTERIOR OF THE TREE RING WITH THE WEED BARRIER CLOTH AND TOPDRESS WITH MULCH (TYPE AND DEPTH PER PLANS).

D. SHRUB, PERENNIAL, AND GROUNDCOVER PLANTING
1. DIG THE PLANTING HOLES TWICE AS WIDE AND 2" LESS DEEP THAN EACH PLANT'S ROOTBALL. INSTALL THE PLANT IN THE HOLE. BACKFILL AROUND THE PLANT WITH SOIL AMENDED PER SOIL TEST RECOMMENDATIONS.
2. INSTALL THE WEED BARRIER CLOTH, OVERLAPPING IT AT THE ENDS. UTILIZE STEEL STAPLES TO KEEP THE WEED BARRIER CLOTH IN PLACE.
3. WHEN PLANTING IS COMPLETE, INSTALL MULCH (TYPE AND DEPTH PER PLANS) OVER ALL PLANTING BEDS, COVERING THE ENTIRE PLANTING AREA.

E. SODDING
1. SOD VARIETY TO BE AS SPECIFIED ON THE LANDSCAPE PLAN.
2. LAY SOD WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT LAY IF THE GROUND IS FROZEN.
3. LAY THE SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS - DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES.
4. ROLL THE SOD TO ENSURE GOOD CONTACT OF THE SOD'S ROOT SYSTEM WITH THE SOIL UNDERNEATH.
5. WATER THE SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING TO OBTAIN AT LEAST SIX INCHES OF PENETRATION INTO THE SOIL BELOW THE SOD.

G. CLEAN UP
1. DURING LANDSCAPE PREPARATION AND PLANTING, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS IN A NEAT, ORDERLY CONDITION.
2. DISPOSED LEGALLY OF ALL EXCAVATED MATERIALS OFF THE PROJECT SITE.

H. INSPECTION AND ACCEPTANCE
1. UPON COMPLETION OF THE WORK, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE SITE CLEAN, FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE LANDSCAPE CONTRACTOR SHALL THEN REQUEST AN INSPECTION BY THE OWNER TO DETERMINE FINAL ACCEPTABILITY.
2. WHEN THE INSPECTED PLANTING WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, THE LANDSCAPE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK TO THE OWNER'S SATISFACTION WITHIN 24 HOURS.
3. THE LANDSCAPE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE LANDSCAPE WORK HAS BEEN RE-INSPECTED BY THE OWNER AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN NOTICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE.

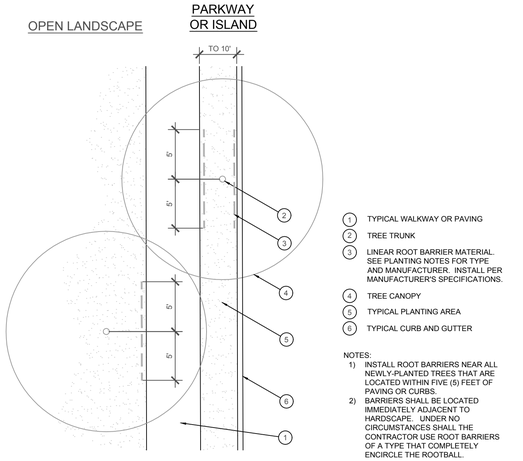
I. LANDSCAPE MAINTENANCE
1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 90 DAYS BEYOND FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY THE OWNER. LANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY SITE VISITS FOR THE FOLLOWING ACTIONS (AS APPROPRIATE): PROPER PRUNING, RESTAKING OF TREES, RESETTING OF PLANTS THAT HAVE SETTLED, MOWING AND AERATION OF LAWNS, WEEDING, RESEEDING AREAS WHICH HAVE NOT GERMINATED WELL, TREATING FOR INSECTS AND DISEASES,REPLACEMENT OF MULCH, REMOVAL OF LITTER, REPAIRS TO THE IRRIGATION SYSTEM DUE TO FAULTY PARTS AND/OR WORKMANSHIP, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON TO MAXIMIZE WATER CONSERVATION.
2. SHOULD SEEDED AND/OR SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL, HEALTHY STAND OF GRASS AT NO ADDITIONAL COST TO THE OWNER.
3. TO ACHIEVE FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD, ALL OF THE FOLLOWING CONDITIONS MUST OCCUR:
   a. THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE REJECTED AND REPLACED BY HEALTHY PLANT MATERIAL PRIOR TO FINAL ACCEPTANCE.
   b. ALL HARDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.
   c. SODDED AREAS MUST BE ACTIVELY GROWING AND MUST REACH A MINIMUM HEIGHT OF 1 1/2 INCHES BEFORE FIRST MOWING. HYDROMULCHED AREAS SHALL SHOW ACTIVE, HEALTHY GROWTH. BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESODDED OR RESEEDED (AS APPROPRIATE) PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE NEATLY MOWED.

J. WARRANTY PERIOD, PLANT GUARANTEE AND REPLACEMENTS
1. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS, PERENNIALS, SOD, SEEDED/HYDROMULCHED AREAS, AND IRRIGATION SYSTEMS FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE (90 DAYS FOR ANNUAL PLANTS). THE CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER, ANY PLANTS WHICH DIE IN THAT TIME, OR REPAIR ANY PORTIONS OF THE IRRIGATION SYSTEM WHICH OPERATE IMPROPERLY.
2. AFTER THE INITIAL MAINTENANCE PERIOD AND DURING THE GUARANTEE PERIOD, THE LANDSCAPE CONTRACTOR SHALL ONLY BE RESPONSIBLE FOR REPLACEMENT OF PLANTS WHEN PLANT DEATH CANNOT BE ATTRIBUTED DIRECTLY TO OVERWATERING OR OTHER DAMAGE BY HUMAN ACTIONS.

K. PROVIDE A MINIMUM OF (2) COPIES OF RECORD DRAWINGS TO THE OWNER UPON COMPLETION OF WORK. A RECORD DRAWING IS A RECORD OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR/CONSULTANT DRAWING MARKUPS.

GENERAL GRADING & PLANTING NOTES

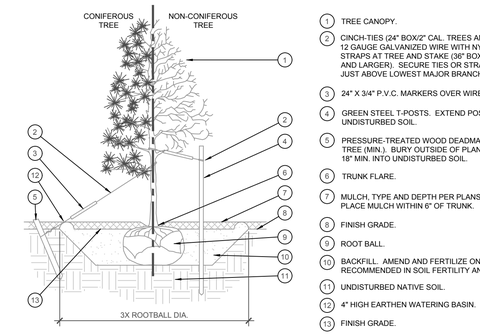
1. BY SUBMITTING A PROPOSAL FOR THE LANDSCAPE PLANTING SCOPE OF WORK, THE CONTRACTOR CONFIRMS THAT HE HAS READ, AND WILL COMPLY WITH, THE ASSOCIATED NOTES, SPECIFICATIONS, AND DETAILS WITH THIS PROJECT.
2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING VEGETATION (EXCEPT WHERE NOTED TO REMAIN).
3. IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
   a. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
   b. CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
   c. THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED (**BASED ON A SOIL TEST**, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.
   d. ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
   e. ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
   f. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.
4. ALL PLANT LOCATIONS ARE DIAGRAMMATIC. ACTUAL LOCATIONS SHALL BE VERIFIED WITH THE LANDSCAPE ARCHITECT OR DESIGNER PRIOR TO PLANTING. THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT ALL REQUIREMENTS OF THE PERMITTING AUTHORITY ARE MET (I.E., MINIMUM PLANT QUANTITIES, PLANTING METHODS, TREE PROTECTION METHODS, ETC.).
   a. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR DETERMINING PLANT QUANTITIES; PLANT QUANTITIES SHOWN ON LEGENDS AND CALLOUTS ARE FOR GENERAL INFORMATION ONLY. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLAN AND THE PLANT LEGEND, THE PLANT QUANTITY AS SHOWN ON THE PLAN (FOR INDIVIDUAL SYMBOLS) OR CALLOUT (FOR GROUNDCOVER PATTERNS) SHALL TAKE PRECEDENCE.
   b. **NO SUBSTITUTIONS OF PLANT MATERIALS SHALL BE ALLOWED WITHOUT THE WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT**. IF SOME OF THE PLANTS ARE NOT AVAILABLE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING (VIA PROPER CHANNELS).
   c. THE CONTRACTOR SHALL, AT A MINIMUM, PROVIDE REPRESENTATIVE PHOTOS OF ALL PLANTS PROPOSED FOR THE PROJECT. THE CONTRACTOR SHALL ALLOW THE LANDSCAPE ARCHITECT AND THE OWNER/OWNER'S REPRESENTATIVE TO INSPECT, AND APPROVE OR REJECT, ALL PLANTS DELIVERED TO THE JOBSITE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBMITTALS.
5. CONTRACTOR SHALL PROVIDE AND INSTALL SOLID SOD IN ALL RIGHT-OF-WAYS AND PARKWAYS (UNLESS NOT ALLOWED BY THE LOCAL JURISDICTION) AND SHALL PROVIDE WATERING AND MAINTENANCE UNTIL THE TURF IS ESTABLISHED AND HAS BEEN ACCEPTED BY OWNER.
6. THE CONTRACTOR SHALL MAINTAIN THE LANDSCAPE IN A HEALTHY CONDITION FOR 90 DAYS AFTER ACCEPTANCE BY THE OWNER. REFER TO SPECIFICATIONS FOR CONDITIONS OF ACCEPTANCE FOR THE START OF THE MAINTENANCE PERIOD, AND FOR FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD.
7. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.



1. TYPICAL WALKWAY OR PAVING
2. TREE TRUNK
3. LINEAR ROOT BARRIER MATERIAL. SEE PLANTING NOTES FOR TYPE AND MANUFACTURER. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
4. TREE CANOPY
5. TYPICAL PLANTING AREA
6. TYPICAL CURB AND GUTTER

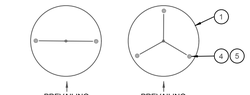
NOTES:
1) INSTALL ROOT BARRIERS NEAR ALL NEWLY-PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING OR CURBS.
2) BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDSCAPE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCIRCLE THE ROOTBALL.

D ROOT BARRIER - PLAN VIEW
SCALE: NOT TO SCALE



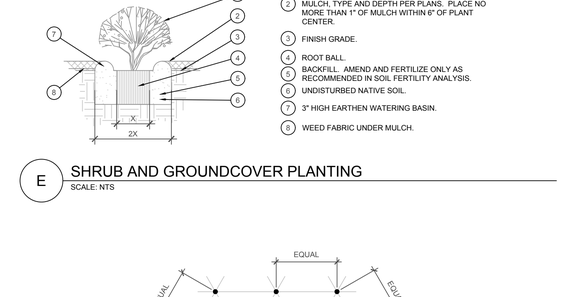
1. TREE CANOPY.
2. CINCH-TIES (24" BOX/2" CAL. TREES AND SMALLER) OR 12 GAUGE GALVANIZED WIRE WITH NYLON TREE STRAPS AT TREE AND STAKE (36" BOX/2.5" CAL. TREES AND LARGER). SECURE TIES OR STRAPS TO TRUNK JUST ABOVE LOWEST MAJOR BRANCHES.
3. 24" X 3/4" P.V.C. MARKERS OVER WIRES.
4. GREEN STEEL T-POSTS. EXTEND POSTS 12" MIN. INTO UNDISTURBED SOIL.
5. PRESSURE-TREATED WOOD DEADMAN, TWO PER TREE (MIN.). BURY OUTSIDE OF PLANTING PIT AND 18" MIN. INTO UNDISTURBED SOIL.
6. TRUNK FLARE.
7. MULCH, TYPE AND DEPTH PER PLANS. DO NOT PLACE MULCH WITHIN 6" OF TRUNK.
8. FINISH GRADE.
9. ROOT BALL.
10. BACKFILL. AMEND AND FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS.
11. UNDISTURBED NATIVE SOIL.
12. 4" HIGH EARTHEN WATERING BASIN.
13. FINISH GRADE.

STAKING EXAMPLES (PLAN VIEW)

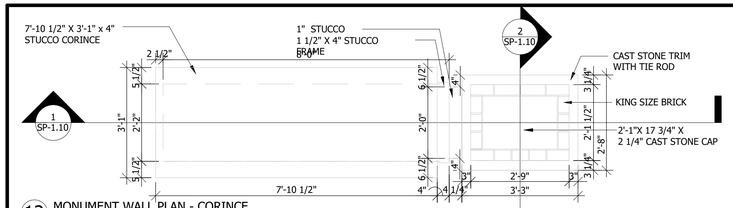


NOTES:
1. SCARIFY SIDES OF PLANTING PIT PRIOR TO SETTING TREE.
2. REMOVE EXCESS SOIL APPLIED ON TOP OF THE ROOTBALL THAT COVERS THE ROOT FLARE. THE PLANTING HOLE DEPTH SHALL BE SUCH THAT THE ROOTBALL RESTS ON UNDISTURBED SOIL, AND THE ROOT FLARE IS 2"-4" ABOVE FINISH GRADE.
3. FOR B&B TREES, CUT OFF BOTTOM 1/3 OF WIRE BASKET BEFORE PLACING TREE IN HOLE. CUT OFF AND REMOVE REMAINDER OF BASKET AFTER TREE IS SET IN HOLE. REMOVE ALL NYLON TIES, TWINE, ROPE, AND OTHER PACKING MATERIAL. REMOVE AS MUCH BURLAP FROM AROUND ROOTBALL AS IS PRACTICAL.
4. REMOVE ALL NURSERY STAKES AFTER PLANTING.
5. FOR TREES 36" BOX/2.5" CAL. AND LARGER, USE THREE STAKES OR DEADMEN (AS APPROPRIATE), SPACED EVENLY AROUND TREE.
6. STAKING SHALL BE TIGHT ENOUGH TO PREVENT TRUNK FROM BENDING, BUT LOOSE ENOUGH TO ALLOW SOME TRUNK MOVEMENT IN WIND.

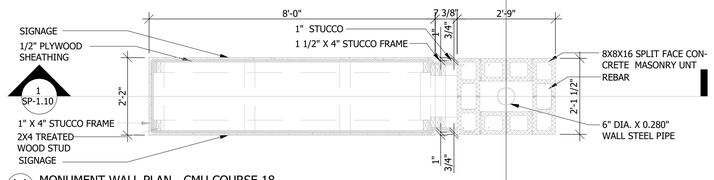
A TREE PLANTING
SCALE: NOT TO SCALE



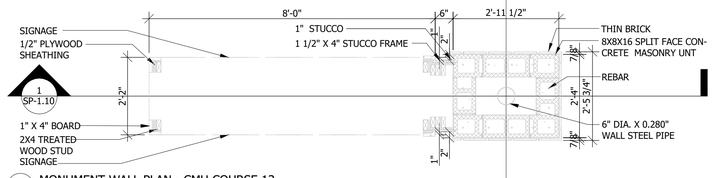
1. SHRUB, PERENNIAL, OR ORNAMENTAL GRASS.
2. MULCH, TYPE AND DEPTH PER PLANS. PLACE NO MORE THAN 1" OF MULCH WITHIN 6" OF PLANT CENTER.
3. FINISH GRADE.
4. ROOT BALL.
5. BACKFILL. AMEND AND FERTILIZE ONLY AS RECOM



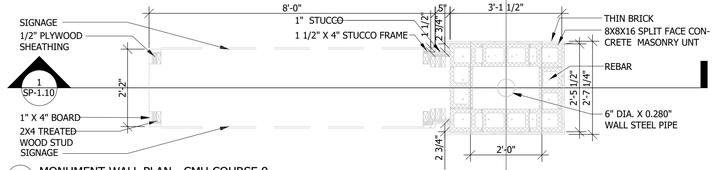
12 MONUMENT WALL PLAN - CORINCE
1/2" = 1'-0"



11 MONUMENT WALL PLAN - CMU COURSE 18
1/2" = 1'-0"



10 MONUMENT WALL PLAN - CMU COURSE 13
1/2" = 1'-0"



9 MONUMENT WALL PLAN - CMU COURSE 9
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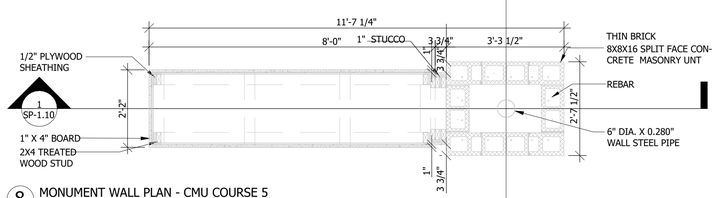

8 MONUMENT WALL PLAN - CMU COURSE 5
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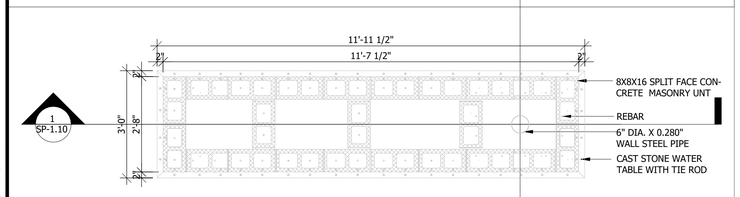

7 MONUMENT WALL PLAN - CMU COURSE 4
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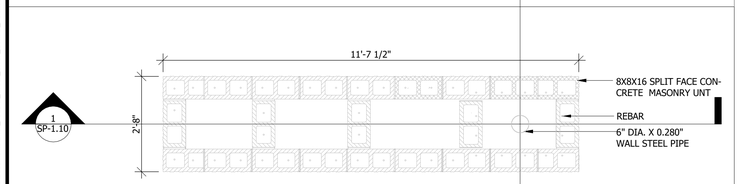
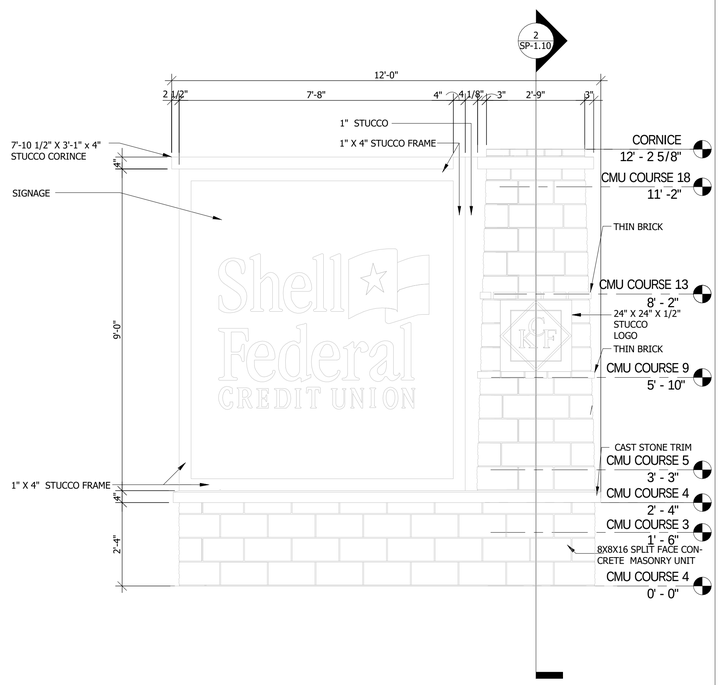
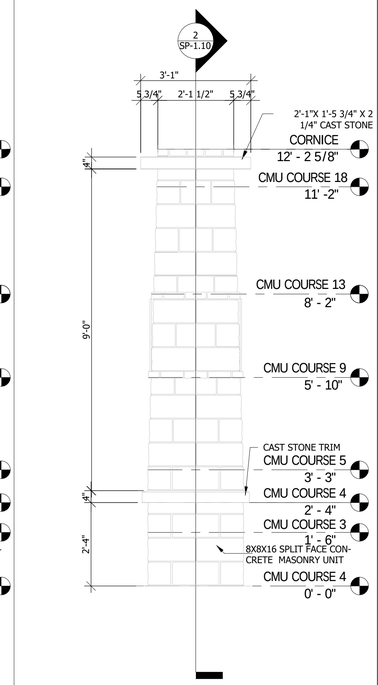


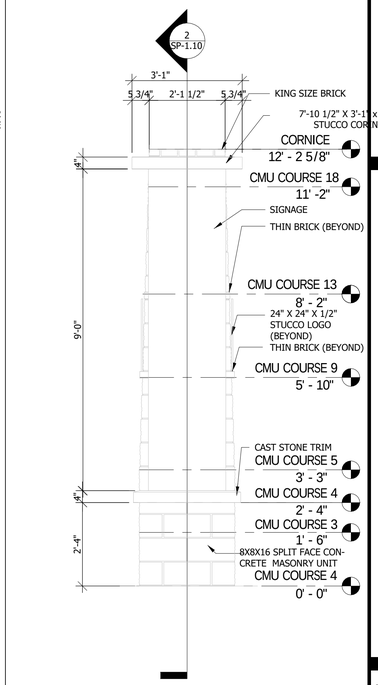
6 MONUMENT WALL PLAN - CMU COURSE 1
1/2" = 1'-0"



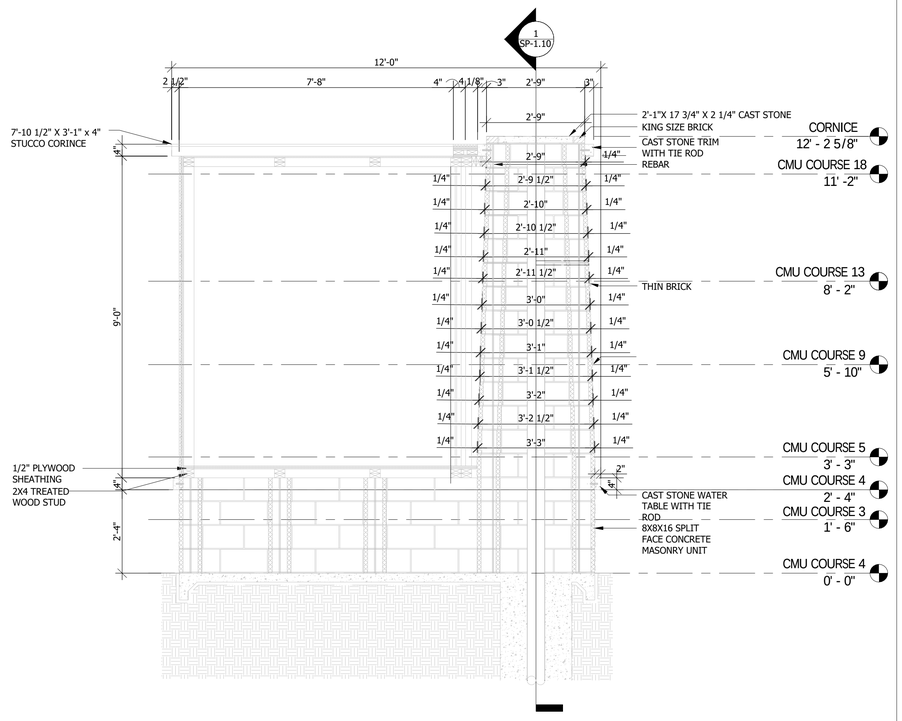
5 MONUMENT WALL - LONGITUDINAL ELEVATION
1/2" = 1'-0"



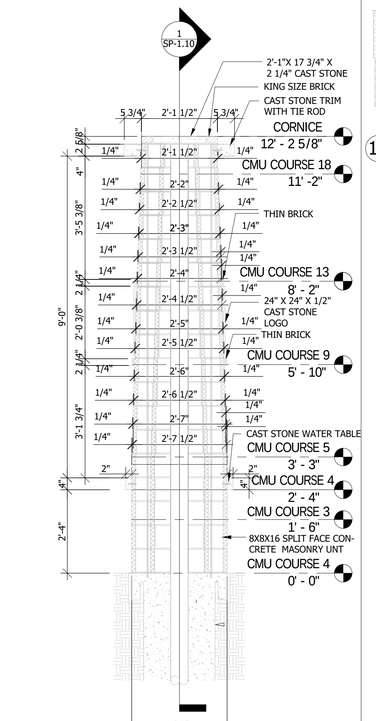
4 MONUMENT WALL - TRANSVERSE CMU ELEVATION
1/2" = 1'-0"



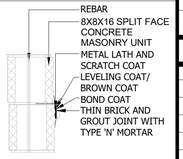
3 MONUMENT WALL - TRANSVERSE SIGNAGE ELEVATION
1/2" = 1'-0"



2 MONUMENT WALL - LONGITUDINAL SECTION
1/2" = 1'-0"



1 MONUMENT WALL - TRANSVERSE SECTION
1/2" = 1'-0"



1.2 THIN BRICK ON SPLIT FACE CMU DETAIL
1" = 1'-0"

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Project Number : 8972

ISSUED FOR	DATE
ISSUED FOR CLIENT APPROVAL	1/26/26
ISSUED FOR BIDDING	4/13/2026
ISSUED FOR PERMIT	4/13/2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE

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REGISTERED ARCHITECT
TOMAS B. TAMER
14288
STATE OF TEXAS
4.13.26

DRAWING TITLE
MONUMENT WALL

DRAWN BY Author
CHECKED BY Checker
APPROVED BY Approver
SHEET NO. SP-1.10

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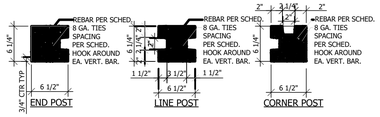
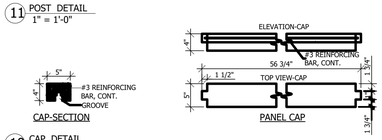
ELEVATION LEGEND	
MATERIAL	**SPECIFICATION**
R-PANEL FOR STEEL GATE FRAME FOR DOORS	FOREST GREEN TO MATCH ROOF. BERRIDGE FOREST GREEN
END PANEL AND MID WALL PANEL	RED WIRE #222
END POST, LINE POST, AND CORNER POST	SCP WHITE LIMESTONE
CAP	SCP WHITE LIMESTONE



11 POST DETAIL
1" = 1'-0"



10 CAP DETAIL
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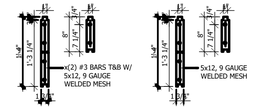

9 PANEL DETAIL
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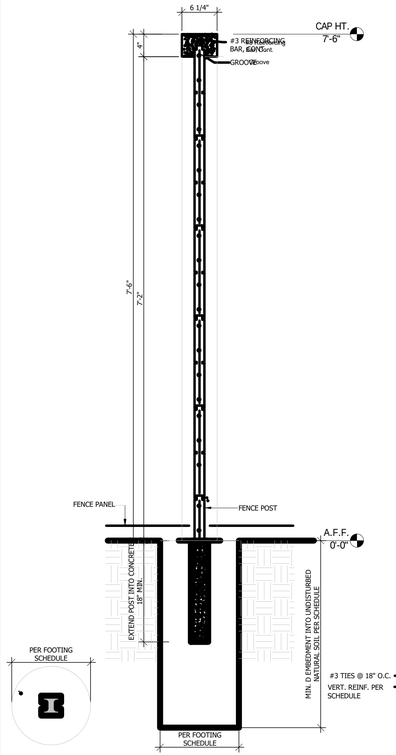
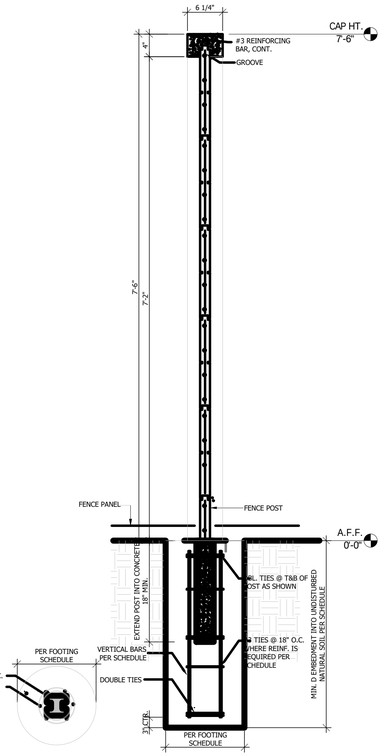
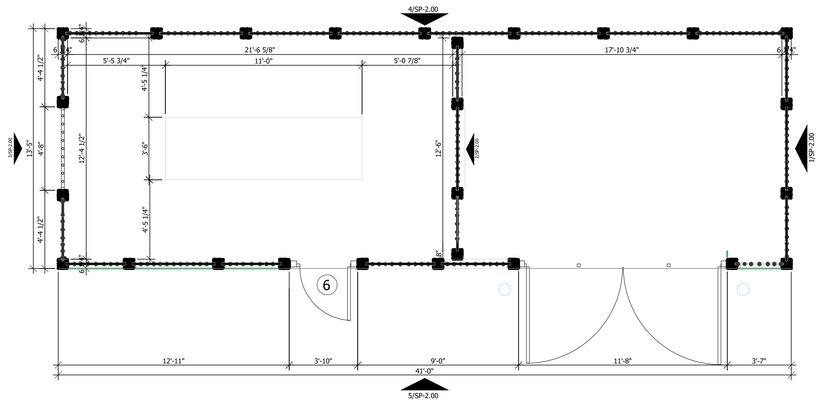


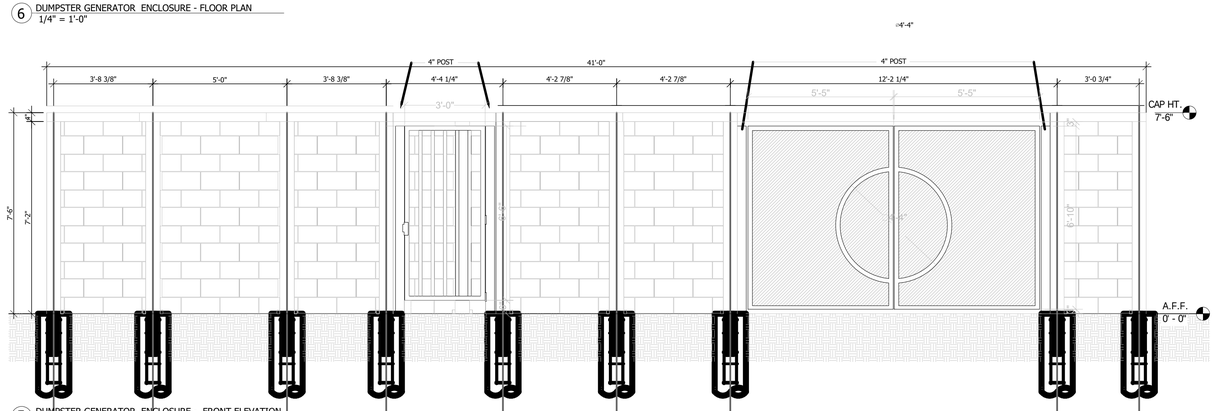
8 GENERATOR ENCLOSURE - WALL SECTION
1" = 1'-0"



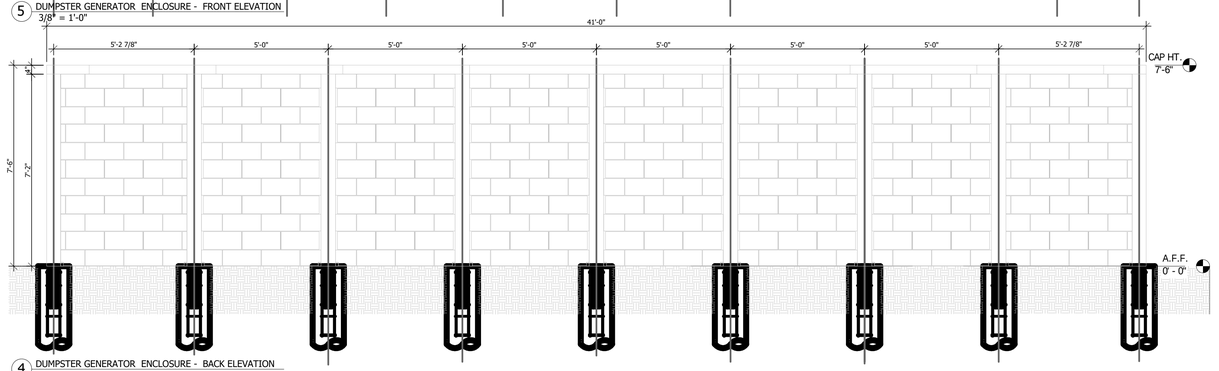
7 GENERATOR ENCLOSURE - WALL SECTION
1" = 1'-0"



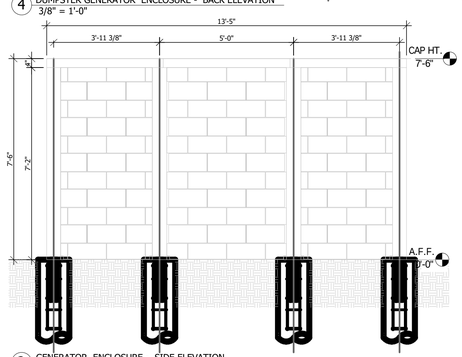
6 DUMPSTER GENERATOR ENCLOSURE - FLOOR PLAN
1/4" = 1'-0"



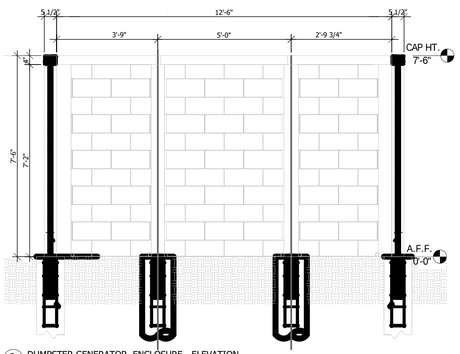
5 DUMPSTER GENERATOR ENCLOSURE - FRONT ELEVATION
3/8" = 1'-0"



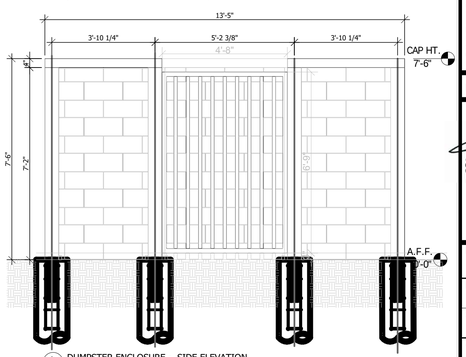
4 DUMPSTER GENERATOR ENCLOSURE - BACK ELEVATION
3/8" = 1'-0"



3 GENERATOR ENCLOSURE - SIDE ELEVATION
3/8" = 1'-0"



2 DUMPSTER GENERATOR ENCLOSURE - ELEVATION
3/8" = 1'-0"



1 DUMPSTER ENCLOSURE - SIDE ELEVATION
3/8" = 1'-0"

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ISSUED FOR PERMIT	4/13/2026
ISSUED FOR CONSTRUCTION	

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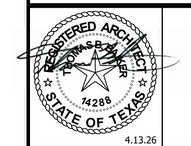

DRAWING TITLE
DUMPSTER ELEVATIONS

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CHECKED BY	BM	SP-2.02
APPROVED BY	TB	

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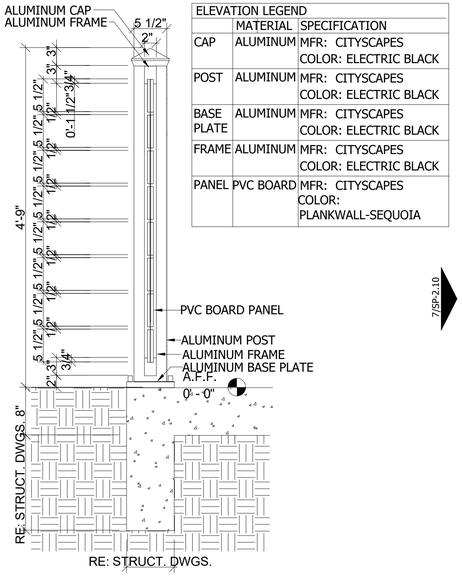
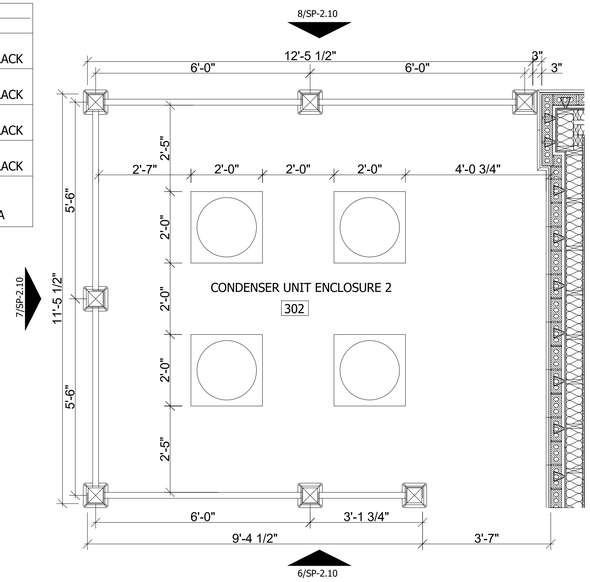
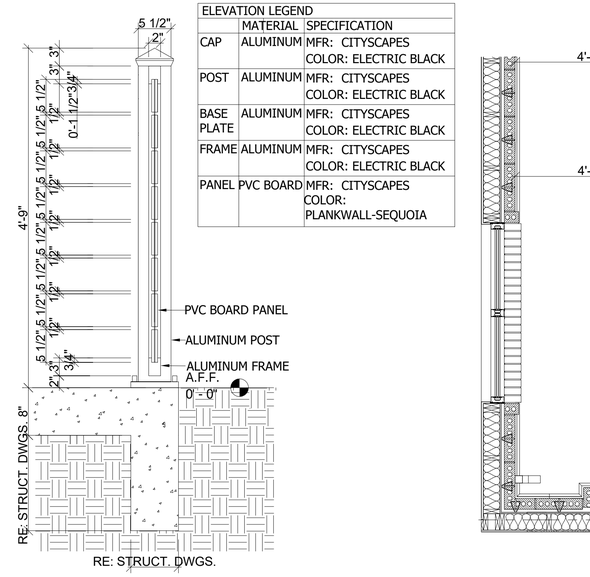


ELEVATION LEGEND		
	MATERIAL	SPECIFICATION
CAP	ALUMINUM	MFR: CITYSCAPES COLOR: ELECTRIC BLACK
POST	ALUMINUM	MFR: CITYSCAPES COLOR: ELECTRIC BLACK
BASE PLATE	ALUMINUM	MFR: CITYSCAPES COLOR: ELECTRIC BLACK
FRAME	ALUMINUM	MFR: CITYSCAPES COLOR: ELECTRIC BLACK
PANEL	PVC BOARD	MFR: CITYSCAPES COLOR: PLANKWALL-SEQUOIA

10 CONDENSER UNIT ENCLOSURE 2 - FLOOR PLAN
1" = 1'-0"

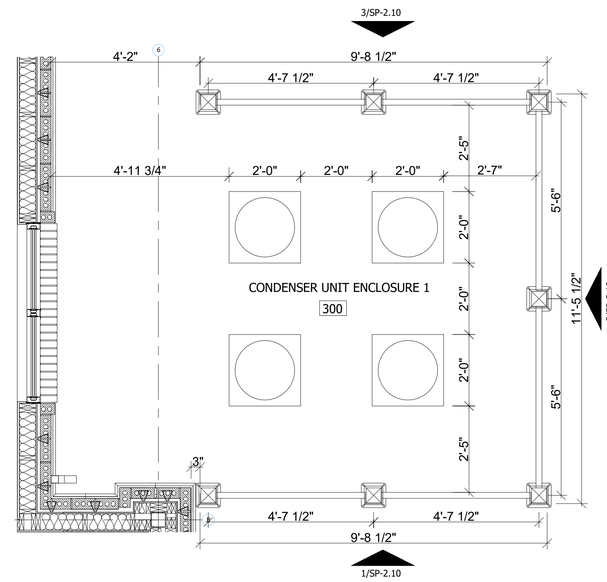


9 CONDENSER UNIT ENCLOSURE 2 - FLOOR PLAN
1/2" = 1'-0"

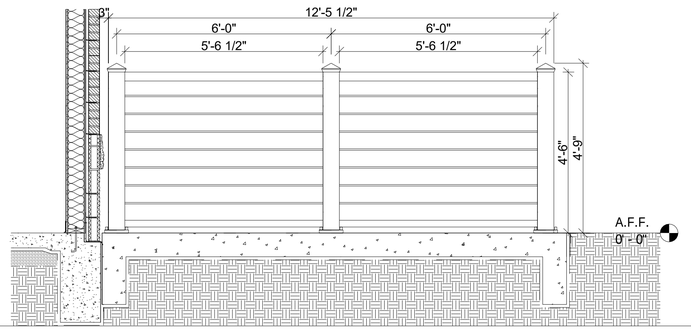


ELEVATION LEGEND		
	MATERIAL	SPECIFICATION
CAP	ALUMINUM	MFR: CITYSCAPES COLOR: ELECTRIC BLACK
POST	ALUMINUM	MFR: CITYSCAPES COLOR: ELECTRIC BLACK
BASE PLATE	ALUMINUM	MFR: CITYSCAPES COLOR: ELECTRIC BLACK
FRAME	ALUMINUM	MFR: CITYSCAPES COLOR: ELECTRIC BLACK
PANEL	PVC BOARD	MFR: CITYSCAPES COLOR: PLANKWALL-SEQUOIA

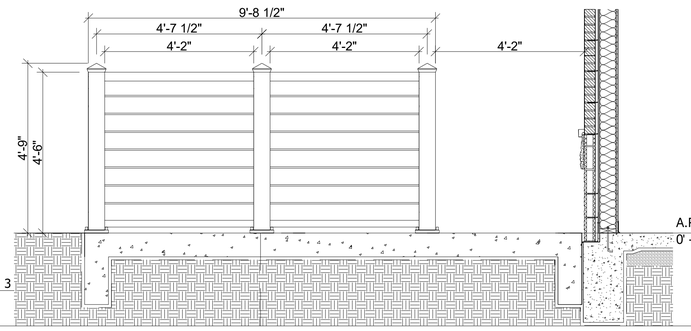
5 CONDENSER UNIT ENCLOSURE 1 - FLOOR PLAN
1" = 1'-0"



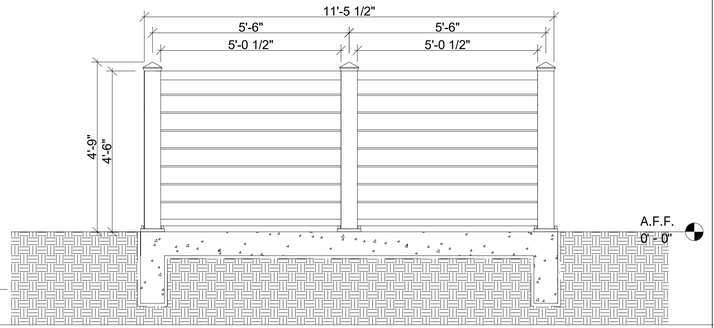
4 CONDENSER UNIT ENCLOSURE 1 - FLOOR PLAN
1/2" = 1'-0"



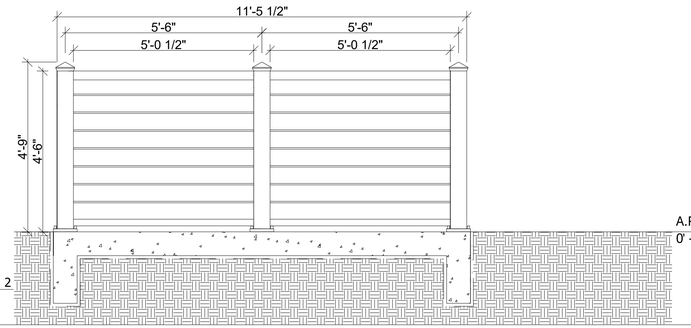
8 DUMPSTER GENERATOR ENCLOSURE - ELEVATION 6
1/2" = 1'-0"



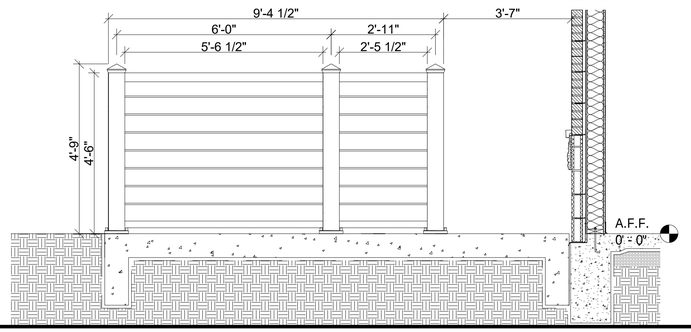
3 DUMPSTER GENERATOR ENCLOSURE - ELEVATION 3
1/2" = 1'-0"



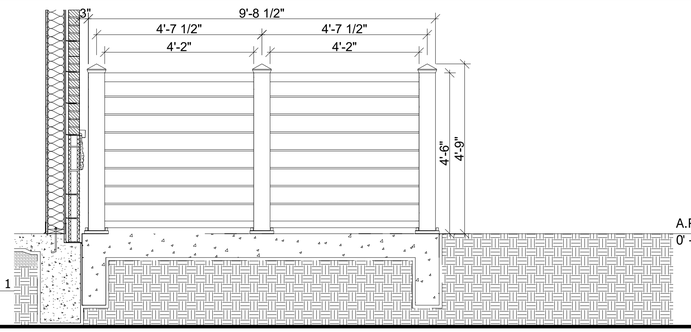
7 DUMPSTER GENERATOR ENCLOSURE - ELEVATION 5
1/2" = 1'-0"



2 DUMPSTER GENERATOR ENCLOSURE - ELEVATION 2
1/2" = 1'-0"



6 DUMPSTER GENERATOR ENCLOSURE - ELEVATION 4
1/2" = 1'-0"



1 DUMPSTER GENERATOR ENCLOSURE - ELEVATION 1
1/2" = 1'-0"

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REGISTERED ARCHITECT
THOMAS B. TAYLOR
14288
STATE OF TEXAS
4.13.26

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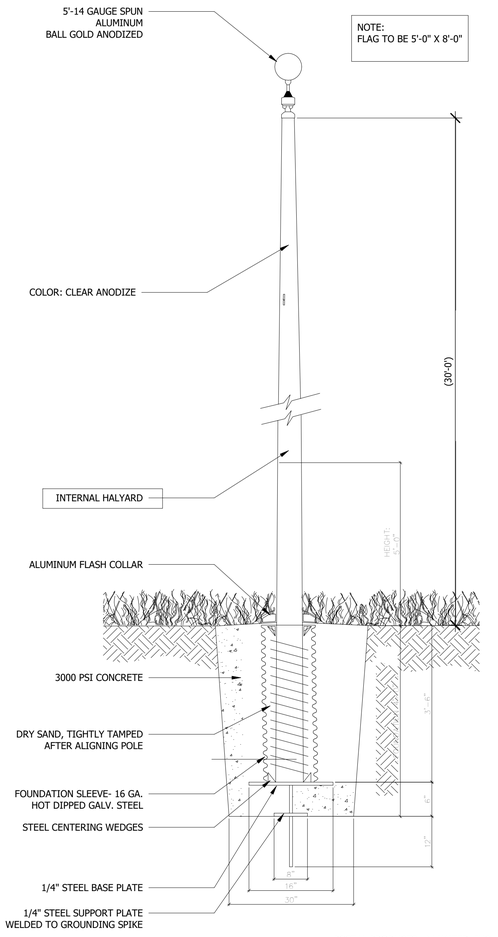
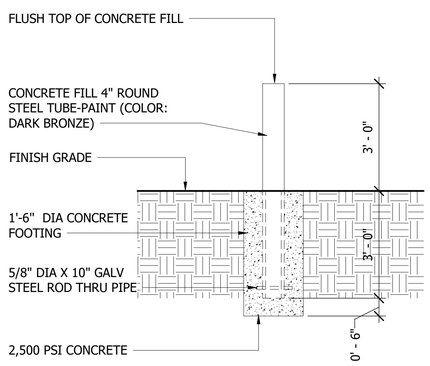
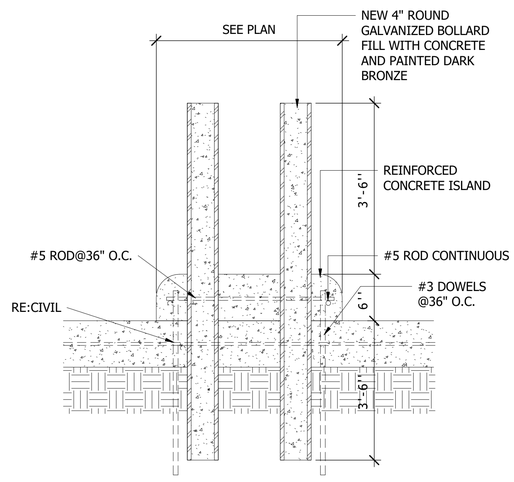


8 FLAG POLE
N.T.S.



7 BUILDING BOLLARD DETAIL
N.T.S.



6 ISLAND BOLLARD DETAIL
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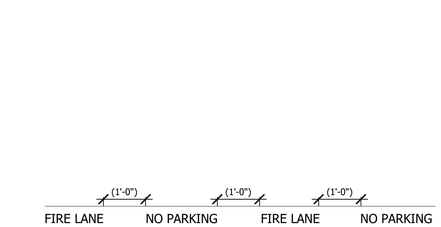
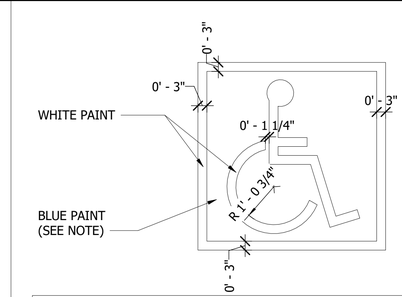


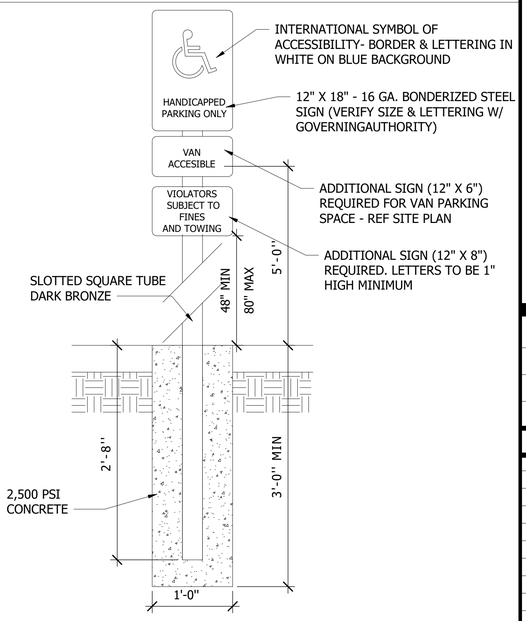
NOTE:
FIRE LANE TO BE 6" RED BASE WITH 4" WHITE LETTERS. PAINT ON FACE OF CURB WHERE POSSIBLE

10 Fire Lane Stripes
N.T.S.

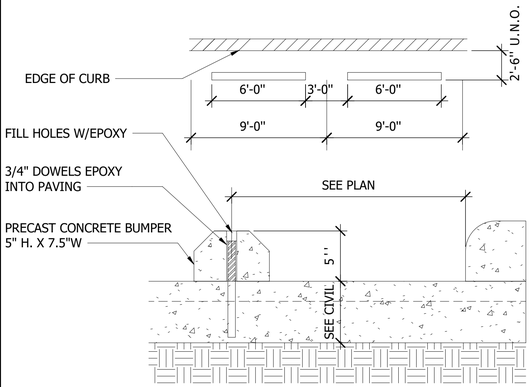


NOTE:
SYMBOL TO BE CENTERED ONWIDTH OF PARKING STALL -SYMBOLS ARE REQ'D TO CONTRAST W/ BACKGROUNDWHITE ON BLUE (COLOR NO.105090 IN FEDERAL STD. 5952)DOUBLE COAT (TYP.)

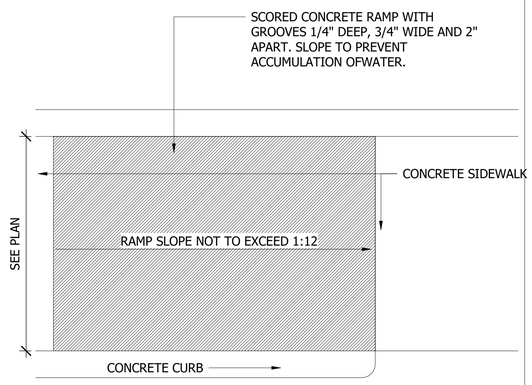
9 ACCESSIBLE PARKING STALL SIGN
N.T.S.



5 ACCESSIBLE PARKING SIGN
N.T.S.

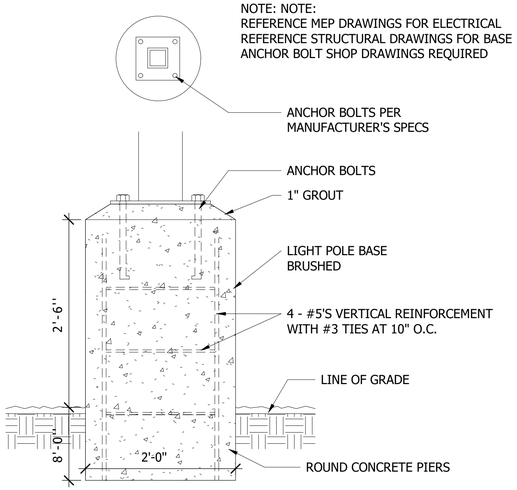


4 WHEELSTOP
N.T.S.

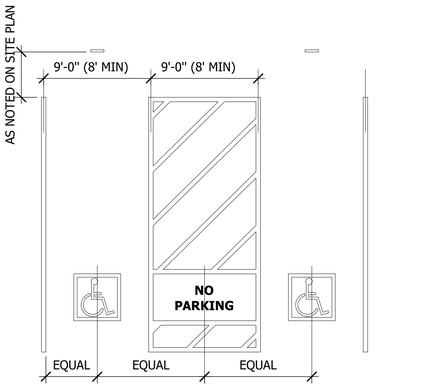


RAMP TO HAVE LIGHT REFLECTIVE VALUE AND TEXTURE TO SIGNIFICANTLY CONTRAST WITH ADJOINING PEDESTRIAN ROUTES.

3 CURB RAMP
N.T.S.



2 LIGHT POLE BASE
N.T.S.



NOTE:
ALL STRIPING SHALL CONSIST OF 4" WIDE PAVEMENT PAINT, WHITE

1 PARKING STRIPING
N.T.S.

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REGISTERED ARCHITECT THOMAS B. TAYLOR 14288 STATE OF TEXAS
4.13.26

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SITE PLAN DETAILS

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CHECKED BY	Checker
APPROVED BY	Approver

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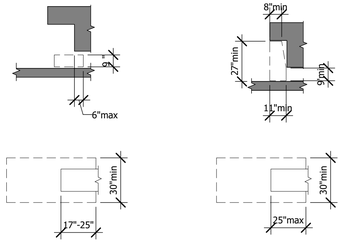

FIG 306.2
TOE CLEARANCE

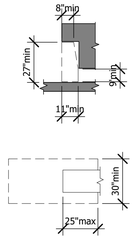

FIG 306.3
KNEE CLEARANCE

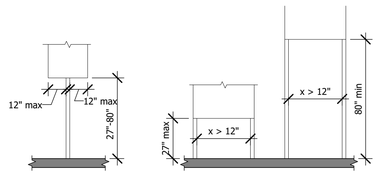

FIG 307.3
POST-MOUNTED PROTRUDING OBJECTS

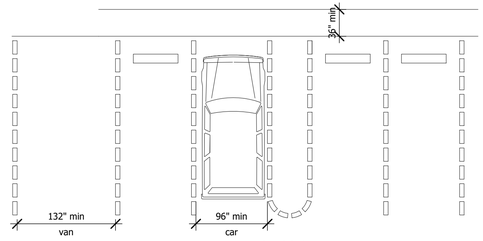

FIG 502.2
VEHICLE PARKING SPACES

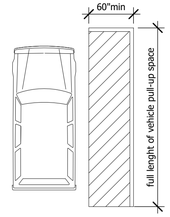

FIG 306.2
TOE CLEARANCE

REQUIRED ACCESSIBLE PARKING SPACES

SITE, PARKING, ENTRANCE

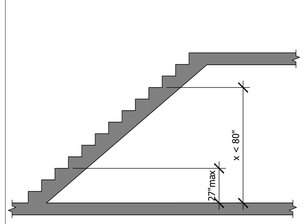

FIG 307.4
VERTICAL CLEARANCE

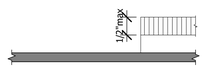

FIG 302.2
CARPET PILE HEIGHT

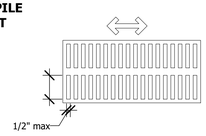

FIG 302.3
ELONGATED OPENING IN FLOOR OR GROUND SURFACES

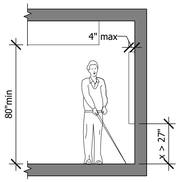

FIG 307.2
LIMITS OF PROTRUDING OBJECTS

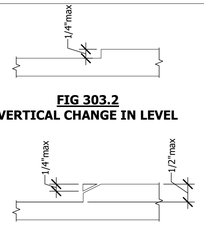

FIG 303.2
VERTICAL CHANGE IN LEVEL

FIG 303.3
BEVELED CHANGE IN LEVEL

TABLE 405.2
MAXIMUM RAMP SLOPE AND RISE FOR EXISTING SITES, BUILDINGS, AND FACILITIES

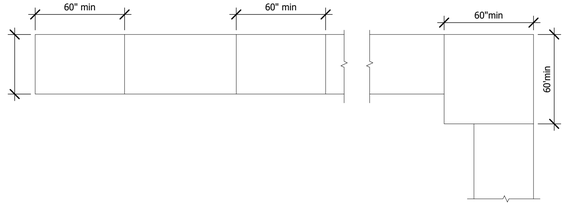

FIG 405.7
RAMP LANDINGS

PROTRUSIONS AND OBSTRUCTIONS ON AN ACCESSIBLE PATH

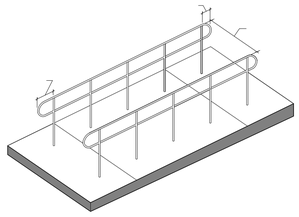

FIG 505.10.1
EXAMPLE OF CLEAR WIDTH AND EDGE PROTECTION

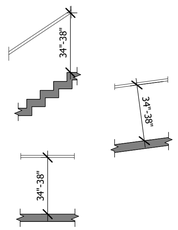

FIG 505.4
HANDRAIL HEIGHT

FIG 505.5
HANDRAIL CLEARANCE

FIG 505.6
HORIZONTAL PROJECT BELOW GRIPPING SURFACE

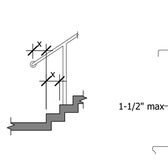

FIG 505.10.3
BOTTOM HANDRAIL EXTENSION AT STAIRS

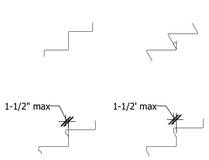

FIG 504.5
STAIR NOSINGS

FIG. 405.9.2
CURB OR BARRIER EDGE PROTECTION

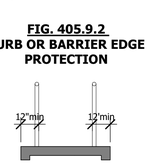

FIG. 405.9.1
EXTENDED FLOOR OR GROUND SURFACE EDGE PROTECTION

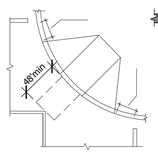

FIG. 406.6
DIAGONAL OR CORNER TYPE CURB RAMPS

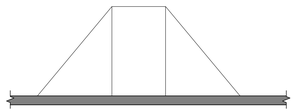

FIG. 406.3
SIDES OF CURB RAMPS

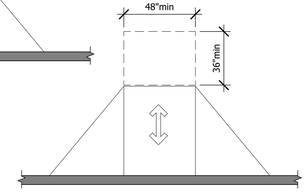

FIG. 406.4
LANDINGS AT THE TOP OF CURB RAMPS

RAMPS, SLOPES AND ASSOCIATED HANDRAILS

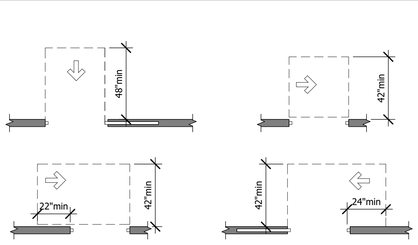

FIG. 404.2.4.2
MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS SLIDING DOORS, GATES, AND FOLDING DOORS

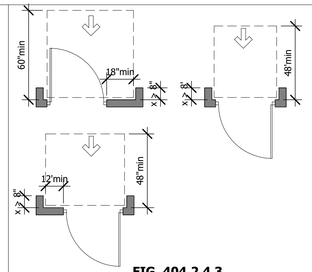

FIG. 404.2.4.3
MANEUVERING CLEARANCES AT RECESSED DOORS AND GATES

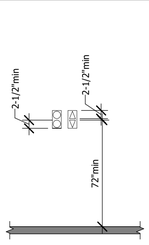

FIG. 407.2.2.2
VISIBLE HALL SIGNALS

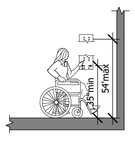

FIG. 407.2.1.1
(EXCEPTION)HEIGHT

TABLE 407.4.7.1.3
ELEVATOR CONTROL BUTTON IDENTIFICATION

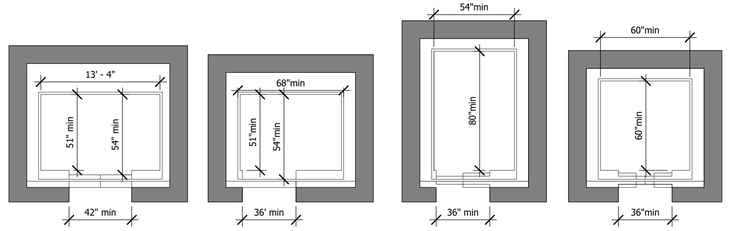

FIG. 407.4.1
ELEVATOR CAR DIMENSIONS

RAMPS, ELEVATORS, AND ASSOCIATED HANDRAILS

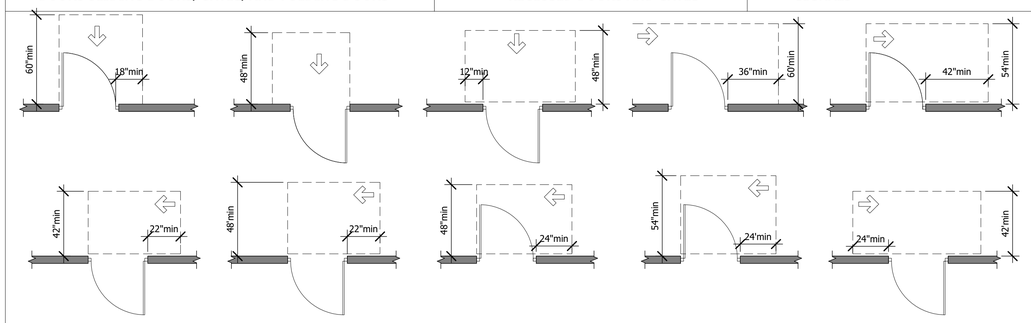

FIG. 404.2.4.1
MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES

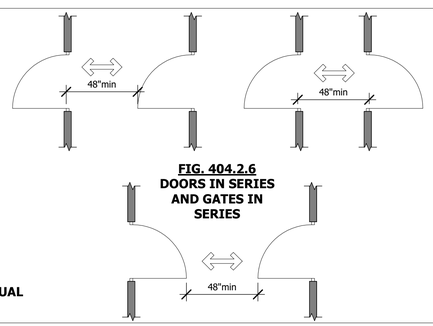

FIG. 404.2.6
DOORS IN SERIES AND GATES IN SERIES

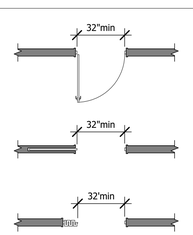

FIG. 404.2.3
CLEAR WIDTH OF DOORWAYS

DOORS AND PASSAGEWAYS

SLI DESIGN, INC.
ARCHITECTURE PLANNING INTERIOR DESIGN
15810 PARK TEN PLACE, SUITE 300
HOUSTON, TEXAS 77084
713-465-4650
www.sligroup.com

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Project Number : 8972

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ISSUED FOR CLIENT APPROVAL	1/26/26
ISSUED FOR BIDDING	4/13/2026
ISSUED FOR PERMIT	4/13/2026
ISSUED FOR CONSTRUCTION	

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MANEUVERING, TURNING & CLEAR FLOOR SPACE

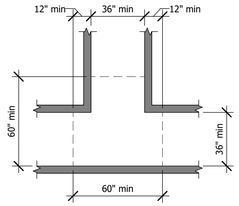


FIG. 304.3.2
T-SHAPED TURNING SPACE

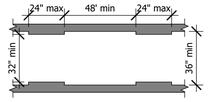


FIG. 403.5.1
CLEAR WIDTH OF AN ACCESSIBLE ROUTE

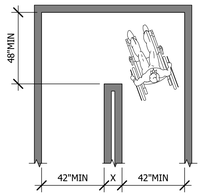


FIG. 403.5.2
CLEAR WIDTH AT TURN

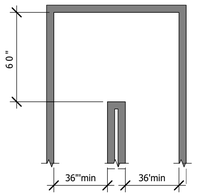


FIG. 703.4.1
HEIGHT OF TACTILE CHARACTERS ABOVE FINISH FLOOR OR GROUND

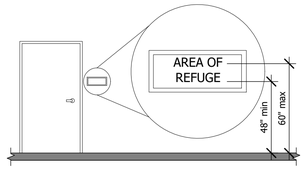


FIG. 703.3.2
POSITION OF BRAILLE

TABLE 703.3.1
BRAILLE DIMENSIONS

SEATING CLEARANCE, CLEAR FLOOR SPACE,APPROACHES, ALCOVES,& REACH RANGES

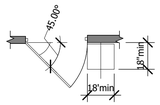


FIG. 703.4.2
LOCATION OF TACTILE SIGNS AT DOORS

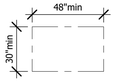


FIG. 305.3
CLEAR FLOOR OR GROUND SPACE

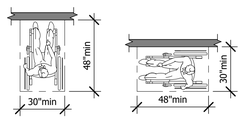


FIG. 305.5
POSITION OF CLEAR FLOOR OR GROUND SPACE

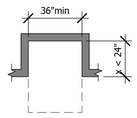


FIG. 305.7.1
MANEUVERING CLEARANCE IN AN ALCOVE, FORWARD APPROACH

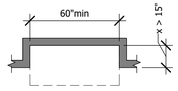


FIG. 305.7.2
MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

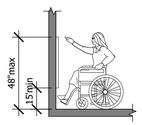


FIG. 308.2.1
UNOBSTRUCTED FORWARD REACH

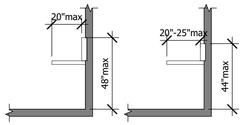


FIG. 308.2.2
OBSTRUCTED HIGH FORWARD REACH

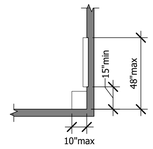


FIG. 308.3.1
UNOBSTRUCTED SIDE REACH

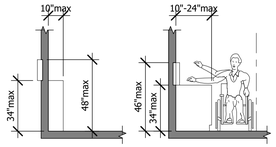


FIG. 308.3.2
OBSTRUCTED HIGH SIDE REACH

WATER FOUNTAINS, AND SERVING LINES HEIGHTS AT PHONES,

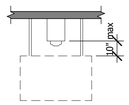


FIG. 704.2.1.1
PARALLEL APPROACH TO TELEPHONE

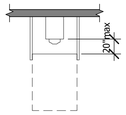


FIG. 704.2.1.2
FORWARD APPROACH TO TELEPHONE

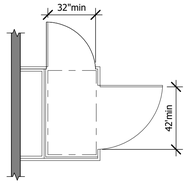


FIG. 410.6
PLATFORM LIFT DOORS AND GATE

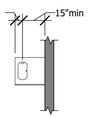


FIG. 602.5
DRINKING FOUNTAIN SPOUT LOCATION

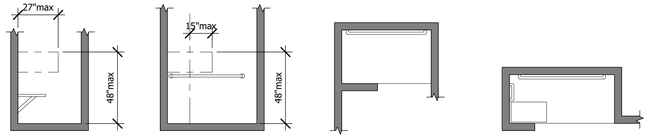


FIG. 608.5.3
ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT CONTROL LOCATION

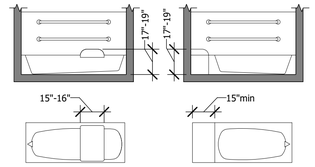


FIG. 610.2
BATHTUB SEATS

LAVATORIES, WATER CLOSETS & TOILET STALLS

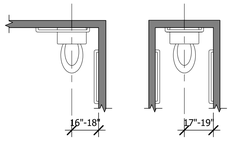


FIG. 604.2
WATER CLOSET LOCATION

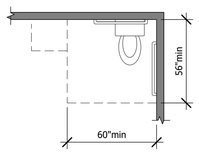


FIG. 604.3.1
SIZE OF CLEARANCE AT WATER CLOSETS

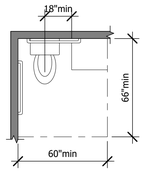


FIG. 604.3.2
(EXCEPTION)OVERLAP OF WATER CLOSET CLEARANCE IN (RESIDENTIAL UNITS)

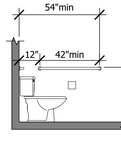


FIG. 604.5.1
SIDE WALL GRAB BAR AT WATER CLOSETS

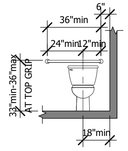


FIG. 604.5.2
REAR WALL GRAB BAR AT WATER CLOSETS

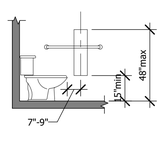


FIG. 604.7
DISPENSER OUTLET LOCATION

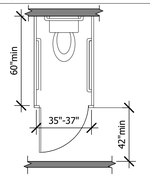


FIG. 604.8.2
AMBULATORY ACCESSIBLE TOILET COMPARTMENT

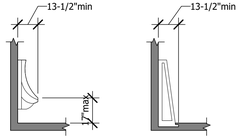


FIG. 605.2
HEIGHT AND DEPTH OF URINALS

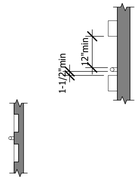


FIG. 609.3
SPACING OF GRAB BARS

SINKS AND BATH TUBS WITH AND WITHOUT SEATS

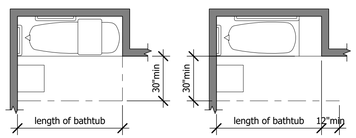


FIG. 607.2
CLEARANCE FOR BATHTUBS

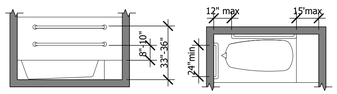


FIG. 607.4.1
GRAB BARS FOR BATHTUBS WITH PERMANENT SEATS

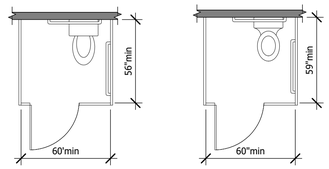


FIG. 604.8.1.1
SIZE OF WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT

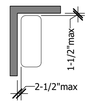


FIG. 610.3.1
RECTANGULAR SHOWER SEAT

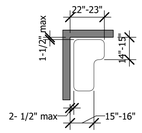


FIG. 610.3.2
L-SHAPED SHOWER SEAT

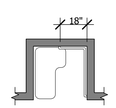


FIG. 608.3.1
GRAB BARS FOR TRANSFER TYPE SHOWERS

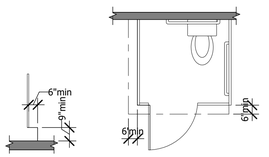


FIG. 604.8.1.4
WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT TOE CLEARANCE

SHOWERS: ROLL IN & TRANSFER STALLS

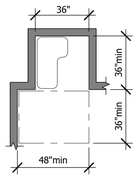


FIG. 608.2.1
SHOWER SIZE AND CLEARANCES 36" BY 36" STALL

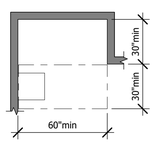


FIG. 608.2.2
STANDARD ROLL-IN TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE

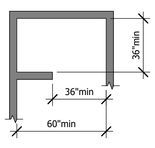


FIG. 608.2.3
ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE

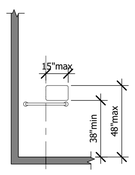


FIG. 608.5.1
TRANSFER TYPE SHOWER COMPARTMENT CONTROL LOCATION

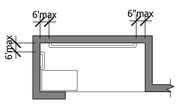


FIG. 608.3.3
GRAB BARS FOR ALTERNATE ROLL-IN TYPE SHOWERS

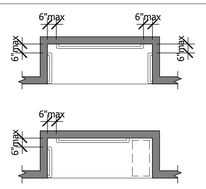
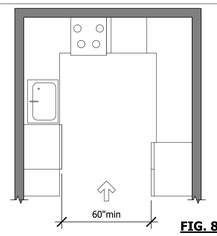


FIG. 608.3.2
GRAB BARS FOR STANDARD ROLL-IN TYPE SHOWERS



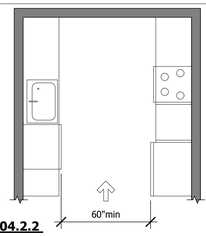


FIG. 804.2.2
U-SHAPED KITCHENS

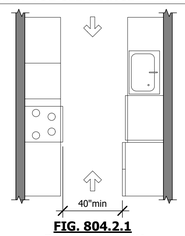


FIG. 804.2.1
PASS THROUGH KITCHENS

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26620 FM 1093 Rd
Katy, TX 77494

Project Number : 8972

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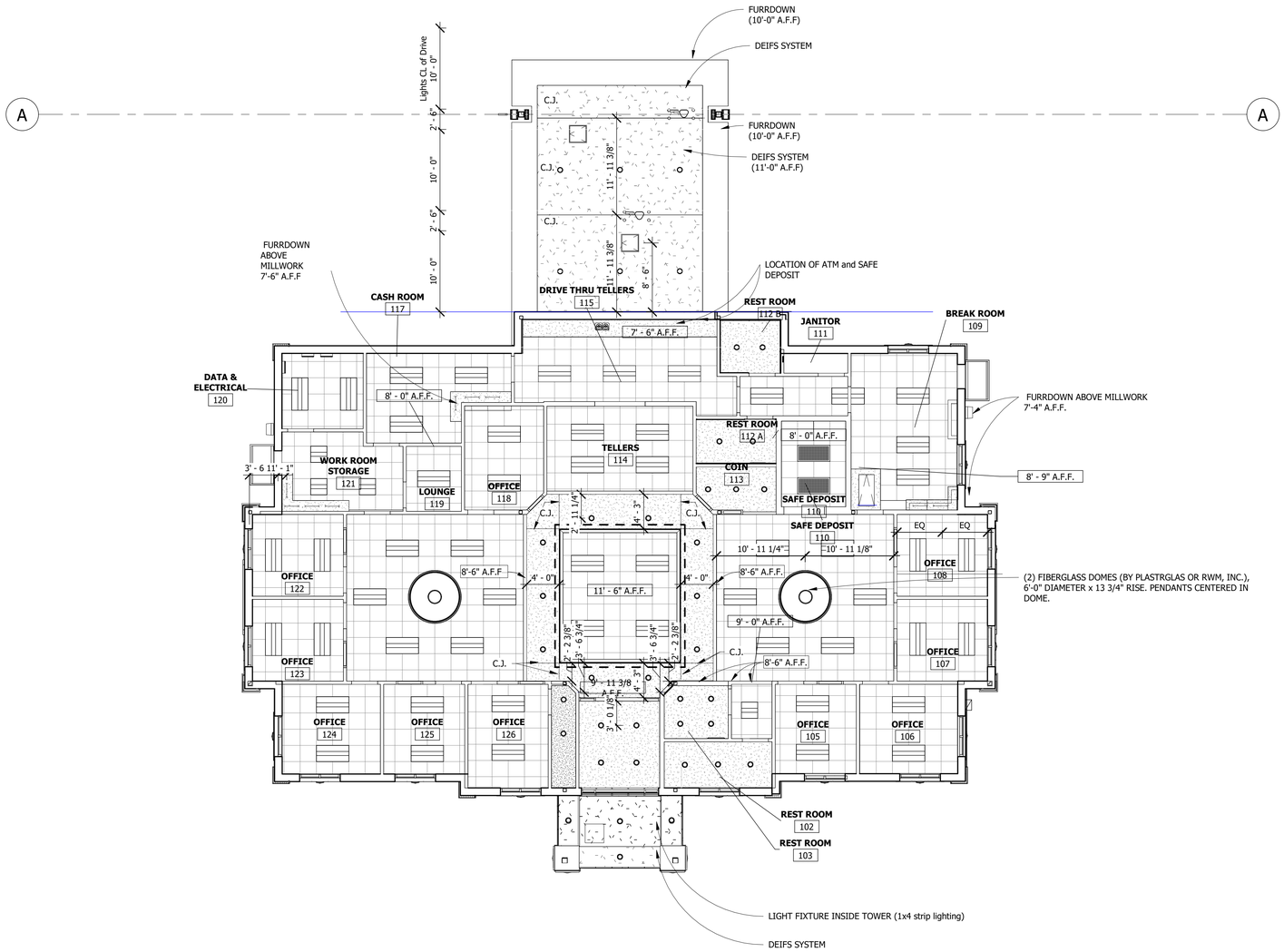

1 RCP
1/8" = 1'-0"

GENERAL NOTES

1. NOTIFY ARCHITECT OF ANY DISCREPANCIES AND/OR OMISSIONS.
2. REMODEL PROJECTS REQUIRE FIELD VERIFICATION BY SUBCONTRACTOR
3. ALL CEILING GRIDS SHALL BE CENTERED IN ROOM UNLESS OTHERWISE SPECIFIED
4. CEILING HEIGHTS TO BE 9'-0" A.F.F. UNLESS OTHERWISED SPECIFIED

CEILING LEGEND

- 2'X2' CERTAINTEED BET-154 TEGULAR CEILING TILE WITH 15/16" WHITE GRID
- TAPED, FLOATED, TEXTURED AND PAINTED
- EXTERIOR DEIFS
- 10' - 10" A.F.F. — INDICATES CEILING HEIGHT
- PAINTED GALVANIZED METAL 24"X24" TUBE ACCESS PANELS
- ATTIC ACCESS LADDER

LIGHTING LEGEND

- 2'X4' RECESSED LED FIXTURE; RE:ELECTRICAL DRAWINGS
- 2'X4' RECESSED LED FIXTURE WITH EMERGENCY BACKUP; RE:ELECTRICAL DRAWINGS
- 2'X4' RECESSED LED FLAT PANEL FIXTURE WITH EMERGENCY BACKUP; RE:ELECTRICAL DRAWINGS
- UNDERCOUNTER TASK LIGHTING; RE:ELECTRICAL DRAWINGS
- RECESSED CAN LIGHT FIXTURE; RE:ELECTRICAL DRAWINGS
- RECESSED EXTERIOR CAN LIGHT FIXTURE; RE:ELECTRICAL DRAWINGS
- EXTERIOR WALL PACK RE:ELECTRICAL DRAWINGS
- PENDANT FIXTURE RE:ELECTRICAL DRAWINGS

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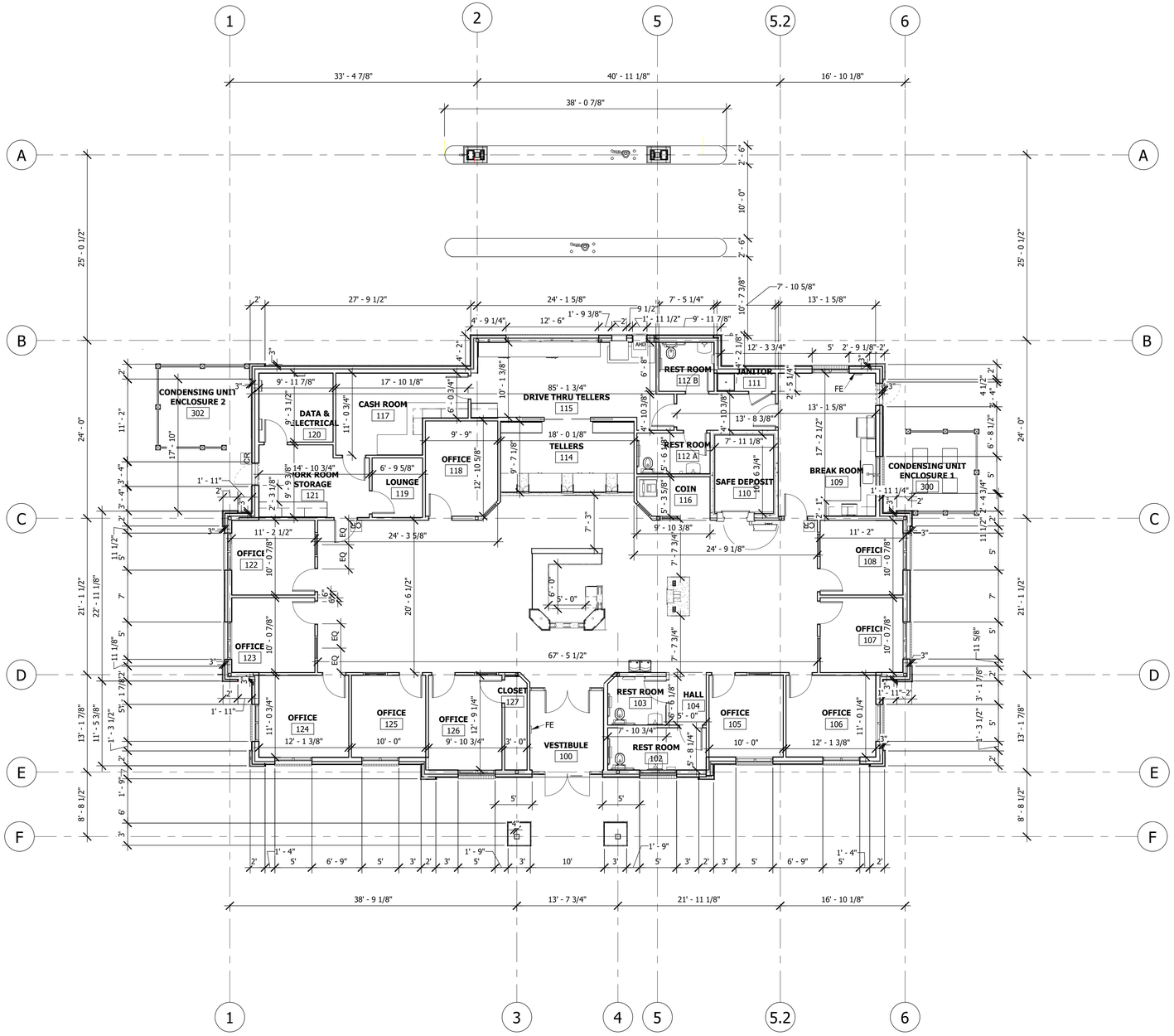

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2. ALL DIMENSIONS ARE TO FINISHED FACE OF PARTITIONS; RE: A-3.0 FOR PARTITION WIDTHS.
3. ALL PARTITIONS TO BE TYPE "D1" UNLESS NOTED OTHERWISE.
4. ALL DOORS ON ACCESSIBLE ROUTES SHALL HAVE A MIN. OF 18" CLEAR ON THE PULL SIDE AND A MIN. OF 12" CLEAR ON THE PUSH SIDE WHEN DOOR IS EQUIPPED WITH BOTH A LATCH AND A CLOSER.
5. FIRE EXTINGUISHERS ARE TO BE 10 LB. ABC TYPE, AND LOCATED AS SHOWN.
6. REFER TO SHEET A-2.0 FOR DOOR, WINDOW, AND HARDWARE SCHEDULES AND INFORMATION.
7. ADD BLOCKING BEHIND ALL GRAB BARS AND BATHROOM ACCESSORIES.

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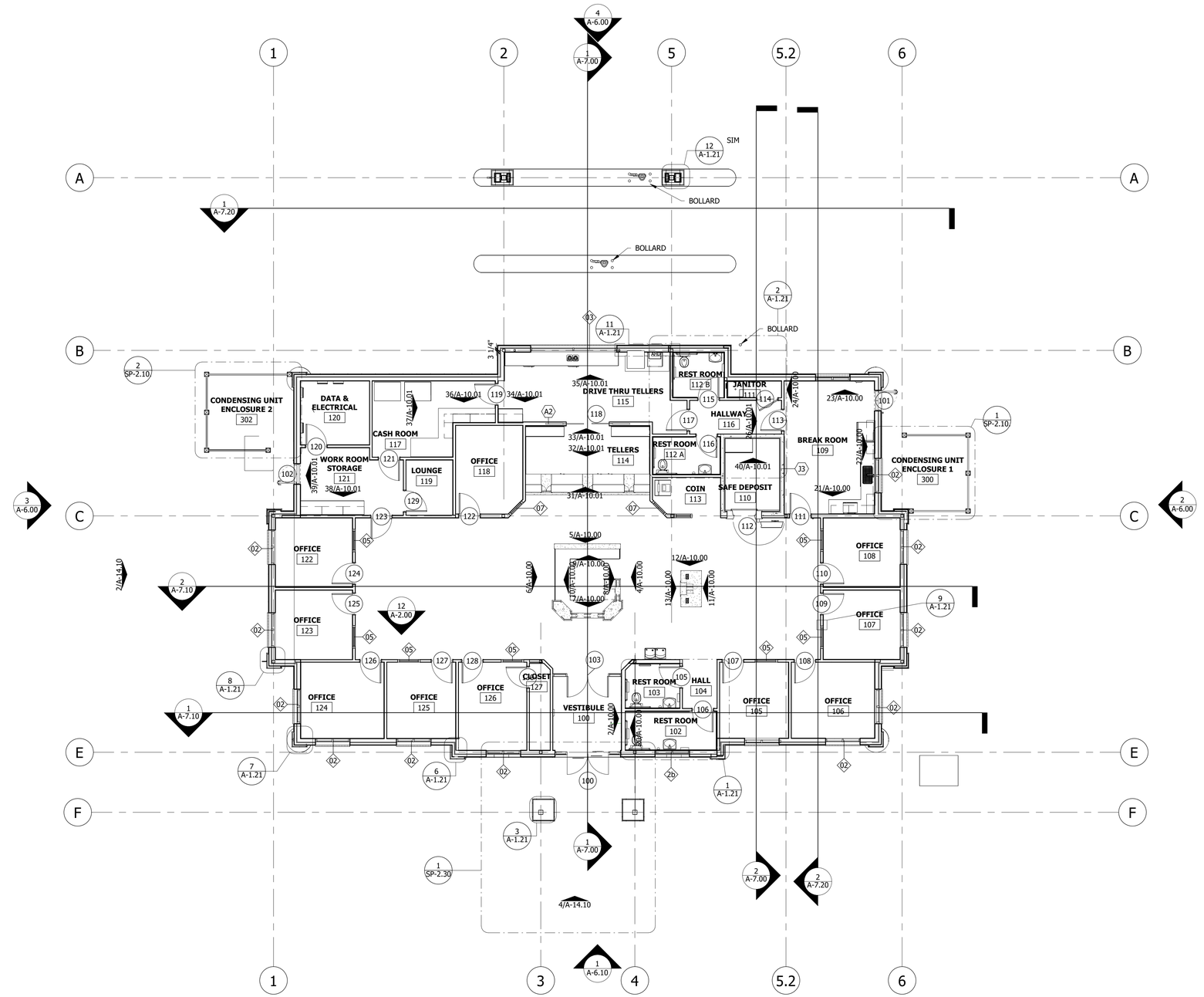

1 LEVEL 1 - ANNOTATED PLAN
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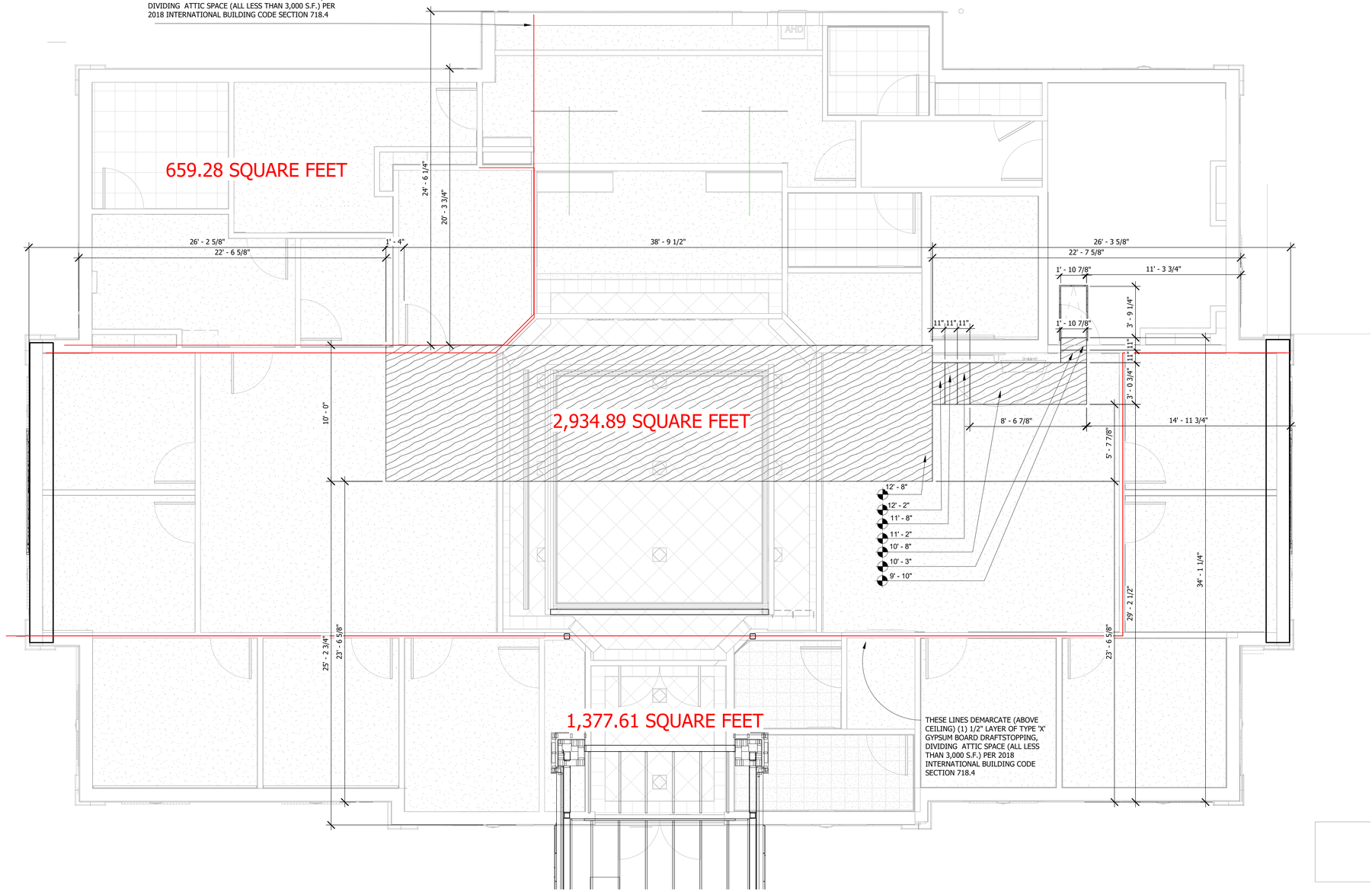

1 ATTIC PLATFORM
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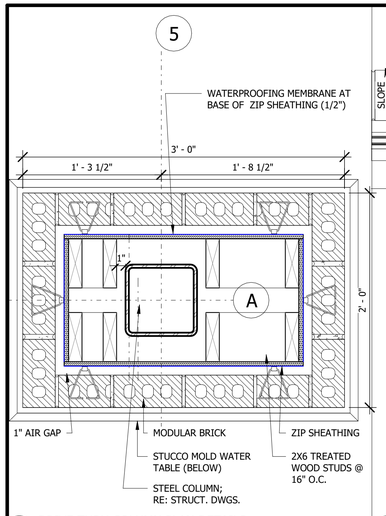
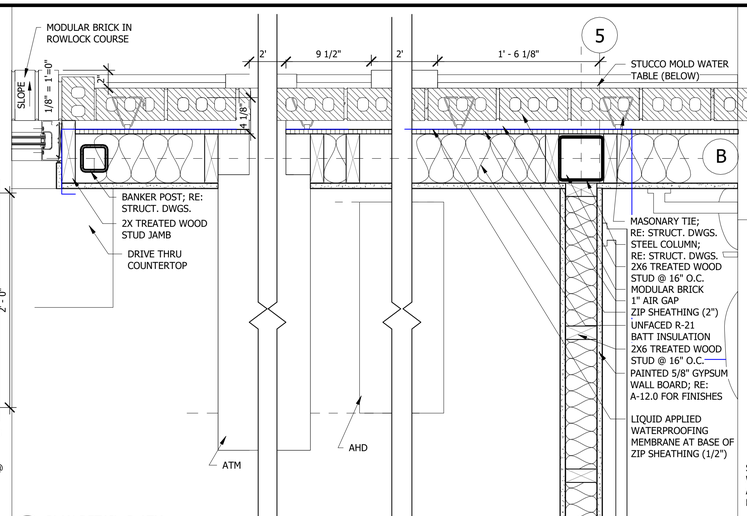
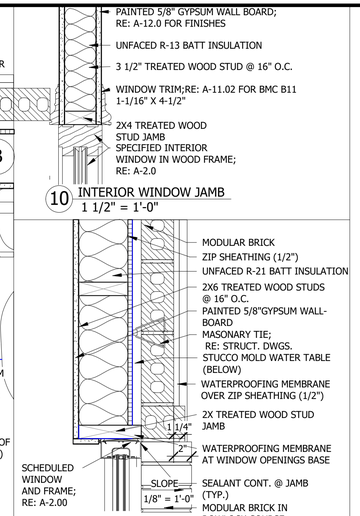


12 DRIVE THRU COLUMN PLAN DETAILS
1 1/2" = 1'-0"

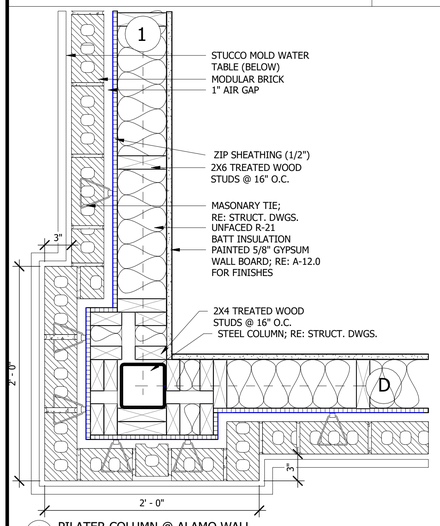


11 PLAN DETAIL @ ATM
1 1/2" = 1'-0"

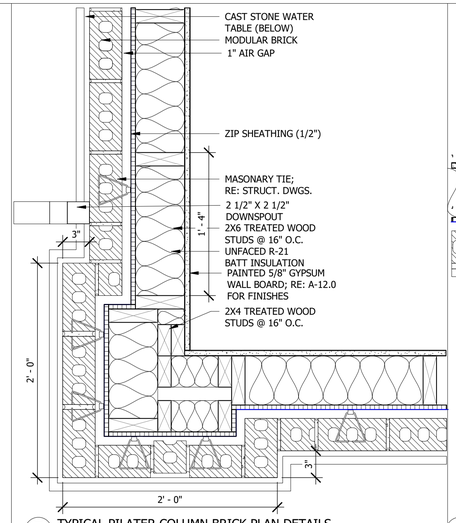


10 INTERIOR WINDOW JAMB
1 1/2" = 1'-0"

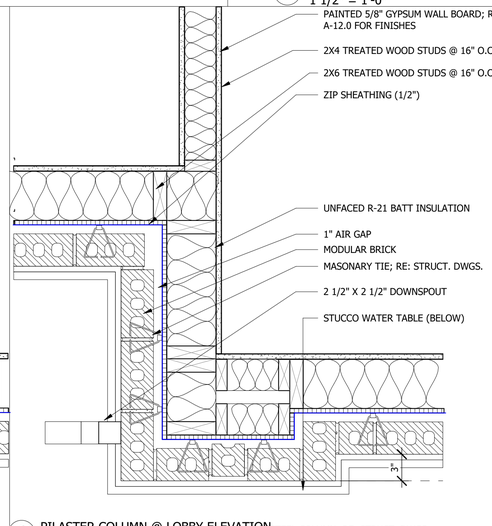
9 EXTERIOR WINDOW JAMB (PLAN VIEW)
1 1/2" = 1'-0"



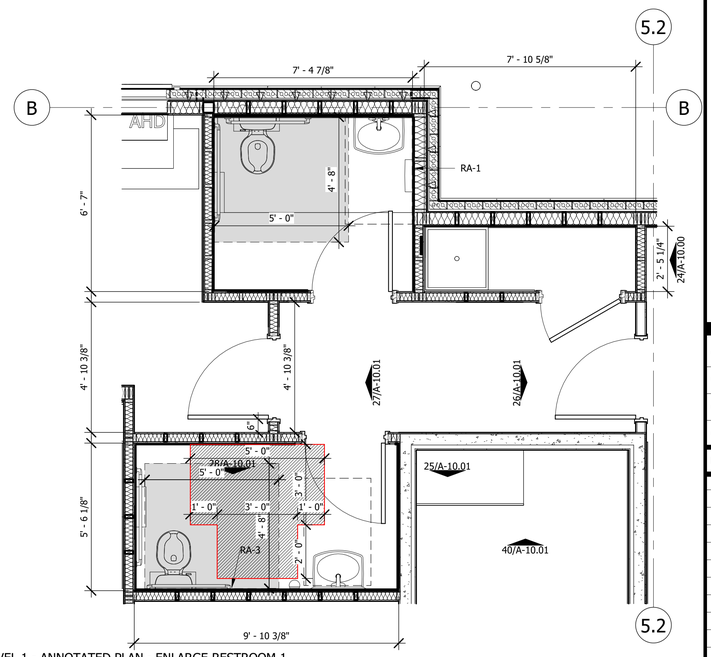
8 PILATER COLUMN @ ALAMO WALL
1 1/2" = 1'-0"



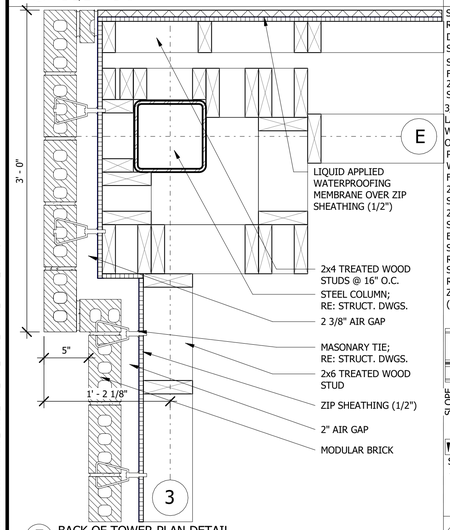
7 TYPICAL PILATER COLUMN BRICK PLAN DETAILS
1 1/2" = 1'-0"



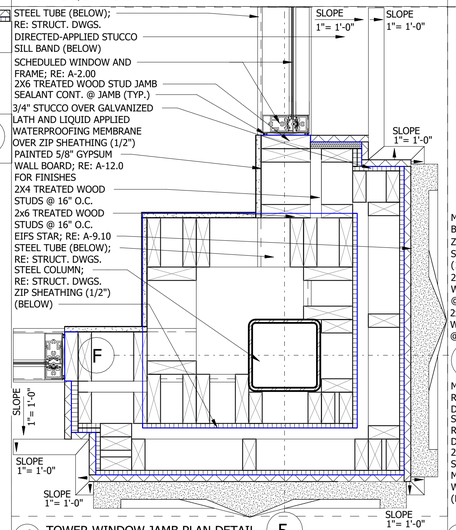
6 PILASTER COLUMN @ LOBBY ELEVATION
1 1/2" = 1'-0"



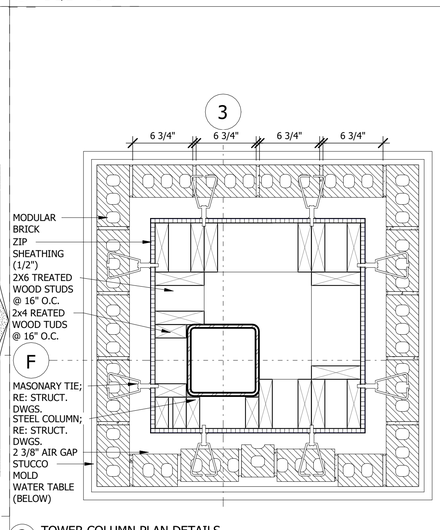
2 LEVEL 1 - ANNOTATED PLAN - ENLARGE RESTROOM 1
3/8" = 1'-0"



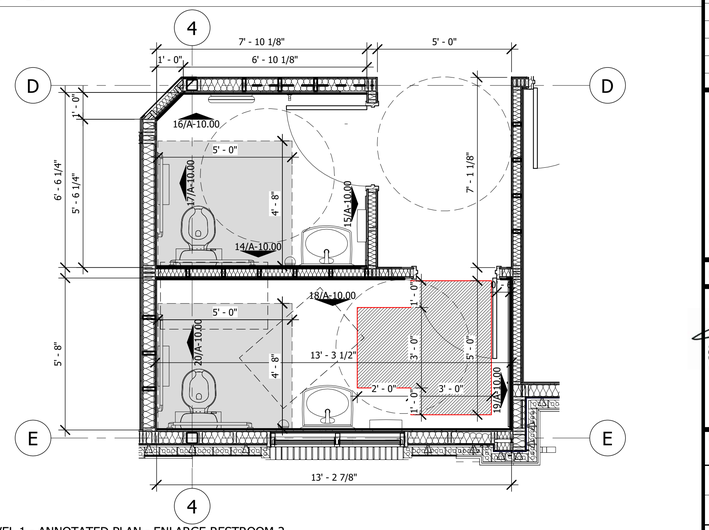
5 BACK OF TOWER PLAN DETAIL
1 1/2" = 1'-0"



4 TOWER WINDOW JAMB PLAN DETAIL
1 1/2" = 1'-0"



3 TOWER COLUMN PLAN DETAILS
1 1/2" = 1'-0"



1 LEVEL 1 - ANNOTATED PLAN - ENLARGE RESTROOM 2
3/8" = 1'-0"

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Project Number : 8972

ISSUED FOR	DATE
ISSUED FOR CLIENT APPROVAL	1/26/26
ISSUED FOR BIDDING	4/13/2026
ISSUED FOR PERMIT	4/13/2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE

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REGISTERED ARCHITECT THOMAS B. MEYER 14288 STATE OF TEXAS
4.13.26

DRAWING TITLE
ENLARGED PLAN DETAILS

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CHECKED BY	BM	A-1.21
APPROVED BY	TB	

GENERAL NOTES

1. NOTIFY ARCHITECT OF ANY DISCREPANCIES AND/OR OMISSIONS.
2. REMODEL PROJECTS REQUIRE FIELD VERIFICATION BY SUBCONTRACTOR
3. SAMPLE SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL

HW SET 01 (Pair Store Front--hardware by storefront supplier)
2 ea. Top Pivot - (by storefront supplier)
2 ea. Intermediate Pivot - (by storefront supplier)
2 ea. Bottom Pivot - (by storefront supplier)
1 ea. Dead Bolt Lock - (by storefront supplier)
1 ea. Cylinder - (by storefront supplier)
1 ea. Thumbturn - (by storefront supplier)
1 ea. Latch Strike - (by storefront supplier)
1 set Flush Bolt-(by storefront supplier)
1 ea. Dust Proof Strike -(by storefront supplier)
2 set Pull - (by storefront supplier)
1 ea. Threshold - (by storefront supplier)
2 ea. Closer - (by storefront supplier)
2 ea. Floor Stop -(by storefront supplier)
2 ea. Stanley M-Force Door Operator with wireless wall plate actuators (painted instersade green)

HW SET 02 (Push/Pull Bars with Closer)
1 ea. Closer
1ea. Dummy Pull - Hager 2517 ARC 626
1 ea. PUSH PLATE -HAGER 305-4x16-US26D
1 ea. Floor Stop - Hager 242F-US10B
3 ea. Silencers
1 ea. Stanley M-Force Door Operator with wireless wall plate actuators (painted instersade green)

HW SET 03 (Electric Stike/Storeroom Lock with Closer)
1 ea. Key Pad/Acess Control by owner
1 ea. Floor Stop - HAGER 242F-US10B
1 ea. Closer - HAGER 5300-PAR-26-US10B-FC
3 ea. Silencers
1 ea. Storeroom Lock - Hager 2580 US10B
1 ea. Electric strike

HW SET 04 (Sliding Door Hardware)
1 ea. Hager 9878 Floor Stop
2 ea. Hager 9878--114 heavy duty head-mounted track and rollers
1 ea. Hager 9884 pull
2 ea. Hager 2630 US10A Flush pull

HW SET 5 (Storeroom Lock)
1 ea. Storeroom Lock - Hager 2580 US10B
1 ea. Floor Stop - HAGER 242F-US10B
3 ea. Silencers

HW SET 06 (Passage Set)
1 ea. Passage Set - Hager 2510 ARC US10B
1 ea. Floor Stop - HAGER 242F-10B
3 ea. Silencers

HW SET 07 (Office Lockset)
1 ea. Office Lockset - Hager 2550 ARC US10B
1 ea. Floor Stop - HAGER 242F-10B
3 ea. Silencers

HW SET 08 (H.M. Rear Exit Device)
1 ½ pr Butts - Hager BB1279NRP 4 ½ x 4
1 ea. Exit Device - 4501-RIM-0-36"-US10B- 1 3/4"
1 ea. Cylinder - Hager - 10B FINISH
1 ea. Closer - HAGER 5300-PAR-US10B-FC
1 ea. Weatherstripping - Zero 188 BK
1 ea. Threshold - Zero 65A
1 ea. Drip strip - Zero 142A
3 ea. Silencers
1 ea. Doorscope: Doorways Plus DS1000

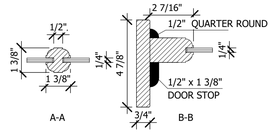
HW SET 09 (Privacy Lock W/ Closer)
1 ea. Privacy Lock - Hager 2540 ARC US10B
1 ea. Floor Stop - HAGER 242F-10B
3 ea. Silencers
1 ea. Closer- HAGER 5300-PAR-US10B-FC

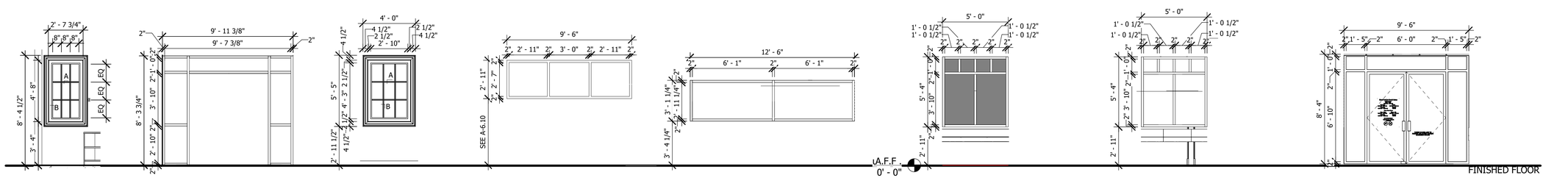
HW SET #10 (Exterior Gate at Generator Enclosure)
1 ea. LokkLatch Automatic Keyed Gate Lock Latch in Black or Equal

HW SET #11 (Exterior Gate at Dumpster Enclosure)
1 ea. Q-BOLT Drop-Bolt (QB140, QB124)

DOOR SCHEDULE

DOOR #	LOCATION FROM	LOCATION TO	DOOR HAND	DOOR TYPE	DOOR FINISH	DOOR WIDTH	DOOR HEIGHT	FRAME TYPE	FRAME FINISH	HARDWARE SET	HARDWARE FINISH	NOTES
100	EXTERIOR	VESTIBULE 100	RHR/LHR	A	CLR. ANOD.	6' - 0"	7' - 0"	S.F	FOREST GREEN	01	613	
101	EXTERIOR	BREAK ROOM 109	RHR	B	PAINTED	3' - 0"	7' - 0"	H.M.	PAINTED	08	613	
102	EXTERIOR	WORK ROOM 119	RHR	B	PAINTED	3' - 0"	7' - 0"	H.M.	PAINTED	08	613	
103	VERSTIBULE 100	LOBBY 101	LHR/RHR	D	PAINTED	6' - 0"	7' - 0"	S.F	PAINTED	02	613	
105	HALL 104	RESTROOM 103	LH	D	PAINTED	3' - 0"	8' - 0"	WOOD	PAINTED	09	613	
106	HALL 104	RESTROOM 102	LH	D	PAINTED	3' - 0"	8' - 0"	WOOD	PAINTED	09	613	
107	LOBBY 101	OFFICE 105	RH	E	PAINTED	3' - 0"	8' - 0"	WOOD	PAINTED	06	613	
108	LOBBY 101	OFFICE 106	RH	E	PAINTED	3' - 0"	8' - 0"	WOOD	PAINTED	07	613	
109	LOBBY 101	OFFICE 107	LH	E	PAINTED	3' - 0"	8' - 0"	WOOD	PAINTED	06	613	
110	LOBBY 101	OFFICE 108	RH	E	PAINTED	3' - 0"	8' - 0"	WOOD	PAINTED	06	613	
111	LOBBY 101	BREAK ROOM 109	LH	D	PAINTED	3' - 0"	8' - 0"	WOOD	PAINTED	03	613	
112	LOBBY 101	SAFE DEPOSIT 110	RHR	---	CLR. ANOD.	3' - 0"	7' - 0"	---	CLR. ANOD.	---	---	
113	BREAK ROOM 109	HALLWAY 113	LH	F	PAINTED	3' - 0"	8' - 0"	WOOD	PAINTED	03	613	
114	HALLWAY 113	JANITOR 111	LHR	D	PAINTED	3' - 0"	8' - 0"		PAINTED	5	613	
115	HALLWAY 113	RESTROOM 112B	RHR	D	PAINTED	3' - 0"	8' - 0"	WOOD	PAINTED	09	613	
116	HALLWAY 113	RESTROOM 112 A	LH	D	PAINTED	3' - 0"	8' - 0"	WOOD	PAINTED	09	613	
117	HALLWAY 113	DRIVE THUR TELLERS 115	LH	F	PAINTED	3' - 0"	8' - 0"	WOOD	PAINTED	03	613	
118	DRIVE THRU TELLERS 115	TELLERS 114	SLD.	G	PAINTED	6' - 0"	8' - 0"	WOOD	PAINTED	03	613	PANEL SIDE FACED LOBBY
119	CASH ROOM 116	DRIVE THUR TELLERS 115	LHR	F	PAINTED	3' - 0"	8' - 0"	WOOD	PAINTED	03	613	
120	WORK ROOM 119	DATA/ELEC 118	LH	D	PAINTED	3' - 0"	8' - 0"	WOOD	PAINTED	03	613	
121	CASH ROOM 116	WORK ROOM 119	LH	D	PAINTED	3' - 0"	8' - 0"	WOOD	PAINTED	03	613	
122	LOBBY 101	OFFICE 117	LH	E	PAINTED	3' - 0"	8' - 0"	WOOD	PAINTED	06	613	
123	LOBBY 101	CASH ROOM 116	LHR	D	PAINTED	3' - 0"	8' - 0"	WOOD	PAINTED	03	613	
124	LOBBY 101	OFFICE 120	LH	E	PAINTED	3' - 0"	8' - 0"	WOOD	PAINTED	06	613	
125	LOBBY 101	OFFICE 121	RH	E	PAINTED	3' - 0"	8' - 0"	WOOD	PAINTED	06	613	
126	LOBBY 101	OFFICE 122	LH	E	PAINTED	3' - 0"	8' - 0"	WOOD	PAINTED	06	613	
127	LOBBY 101	OFFICE 123	LH	E	PAINTED	3' - 0"	8' - 0"	WOOD	PAINTED	06	613	
128	LOBBY 101	OFFICE 124	RH	E	PAINTED	3' - 0"	8' - 0"	WOOD	PAINTED	06	613	
129	WORK ROOM 119	LOUNGE 125	RH	D	PAINTED	3' - 0"	8' - 0"	WOOD	PAINTED	09	613	
130	OFFICE 126	CLOSET 127	LHR	D	PAINTED	3' - 0"	8' - 0"	WOOD	PAINTED	06	613	
131	EXTERIOR	GENERATOR ENCLOSURE	LHR	H	PAINTED	3' - 0"	6' - 6"	STEEL	PAINTED	10	613	
132	EXTERIOR	DUMPSTER ENCLOSURE	RHR/LHR	J	PAINTED	10' - 10"	6' - 10"	STEEL	PAINTED	11	613	





7 INTERIOR
CLEAR TEMPERED GLASS IN CENTERED SET SASH PAINTED WOOD FRAME WITH 4-7/8" THROAT DIVIDED LITE WINDOW

6 INTERIOR
1" DOUBLE PANE INSULATED GRAY TINTED TEMPERED GLASS IN ANODIZED ALUM. FRAME STOREFRONT

5 INTERIOR
1/4" CLEAR TEMPERED GLASS IN CENTERED SET SASH PAINTED WOOD FRAME WITH 4-7/8" THROAT DIVIDED LITE WINDOW

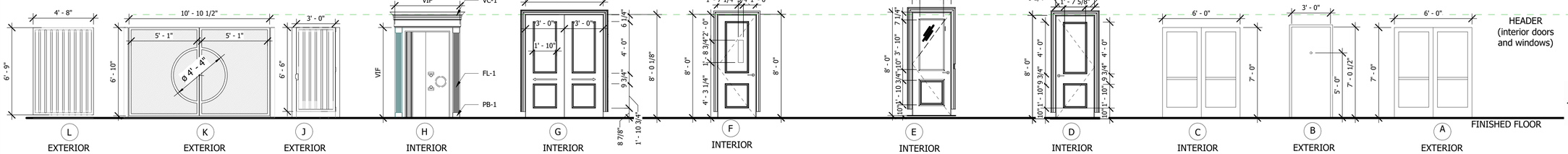
4 EXTERIOR
FIXED WINDOW W/ GRAY TINTED GLASS IN ANODIZED ALUM. STOREFRONT FRAME

3 EXTERIOR
FIXED WINDOW W/ CLEAR BULLET RESISTANT, LEVEL 2 RESISTANT GLASS IN ANODIZED ALUM. STOREFRONT FRAME

2b EXTERIOR
1" DOUBLE PANE INSULATED SPANDREL TEMPERED GLASS IN ANODIZED ALUM. FRAME STOREFRONT

2 EXTERIOR
1" DOUBLE PANE INSULATED GRAY TINED TEMPERED GLASS IN ANODIZED ALUM. FRAME STOREFRONT

1 EXTERIOR
1" DOUBLE PANE INSULATED GRAY TINTED TEMPERED GLASS IN ANODIZED ALUM. FRAME STOREFRONT



HEADER (interior doors and windows)

L EXTERIOR
STEEL FENCE
FINISH: PAINTED (REF: SITE PLAN DETAILS)

K EXTERIOR
STEEL DOORS
FINISH: PAINTED (REF: SITE PLAN DETAILS)

J EXTERIOR
STEEL DOORS
FINISH: PAINTED

H INTERIOR
VAULT DOOR BY DEIBOLD TRIM BY CARPETNTER
FINISH: PAINTED PA-1

G INTERIOR
PAIR OF SOLID CORE WOOD SLIDING DOORS
FINISH: PAINTED P-1

PANEL SIDE FACED LOBBY TRIM TO BE INSTALLED BY CARPENTER

F INTERIOR
(JELDWEN) WOOD DOOR W/ SOLID CORE IN PREHUNG WOOD FRAME WITH 4"x20" VIEWLITE (4 3/4"x 20 3/4" d.l.o.) FRAME FINISH: PAINTED P-1.

DOOR LITE OPENINGS BY MGF. FABRICATE TRIM KITS AND GLASS BY OTHERS

E INTERIOR
SOLID CORE (JELDWEN) WOOD IN PRE-HUNG WOOD
FRAME WITH 1/4" THICK CLEAR SAFETY TEMPERED GLASS (22" x 46" d.l.o.) FRAME FINISH: PAINTED P-1

DOOR LITE OPENINGS BY MGF. FABRICATE TRIM KITS AND GLASS BY OTHERS

D INTERIOR
SOLID CORE (JELDWEN)WOOD IN PREHUNG WOOD FRAME FINISH:PAINTED P-1

C EXTERIOR
ALUMINUM CLEAR ANODIZE STOREFRONT DOORS WITH 1/4" CLEAR GLASS PANELS WITH SHGC 0.18

B EXTERIOR
PAINTED EXTERIOR INSULATED HOLLOW METAL
DOOR W/ DOORSCOPE

A EXTERIOR
ALUMINUM STOREFRONT DOORS CLEAR ANODIZE WITH 1/4"
GRAY TINTED SAFETY GLASS PANELS WITH SHGC 0.18

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Katy, TX 77494
Project Number : 8972

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ISSUED FOR PERMIT	4/13/2026
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REGISTERED ARCHITECT THOMAS B. TAMER 14288 STATE OF TEXAS
4.13.26

DRAWING TITLE
DOOR AND WINDOW SCHEDULE

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CHECKED BY	BM	A-2.00
APPROVED BY	TB	

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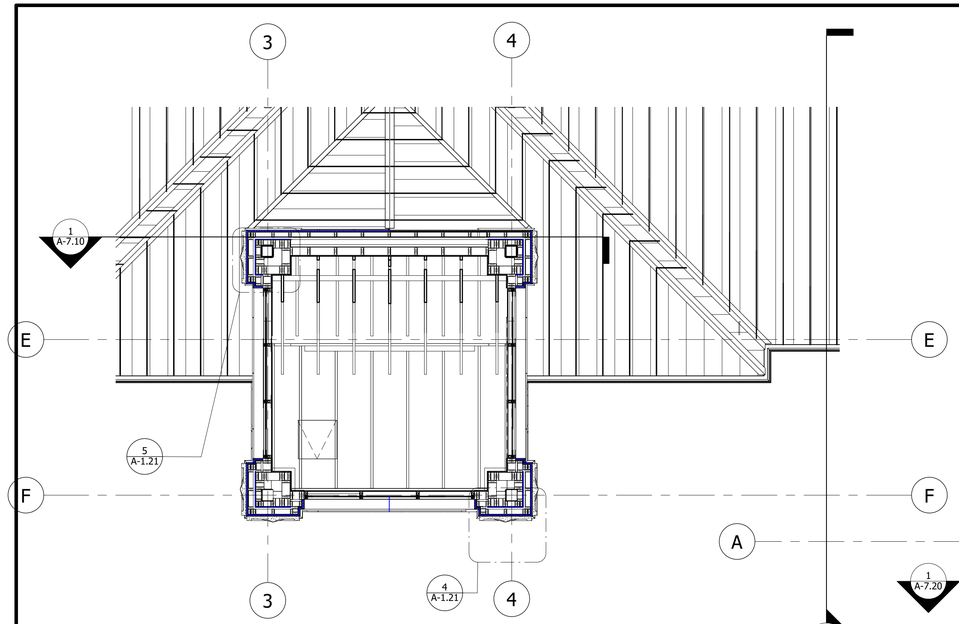
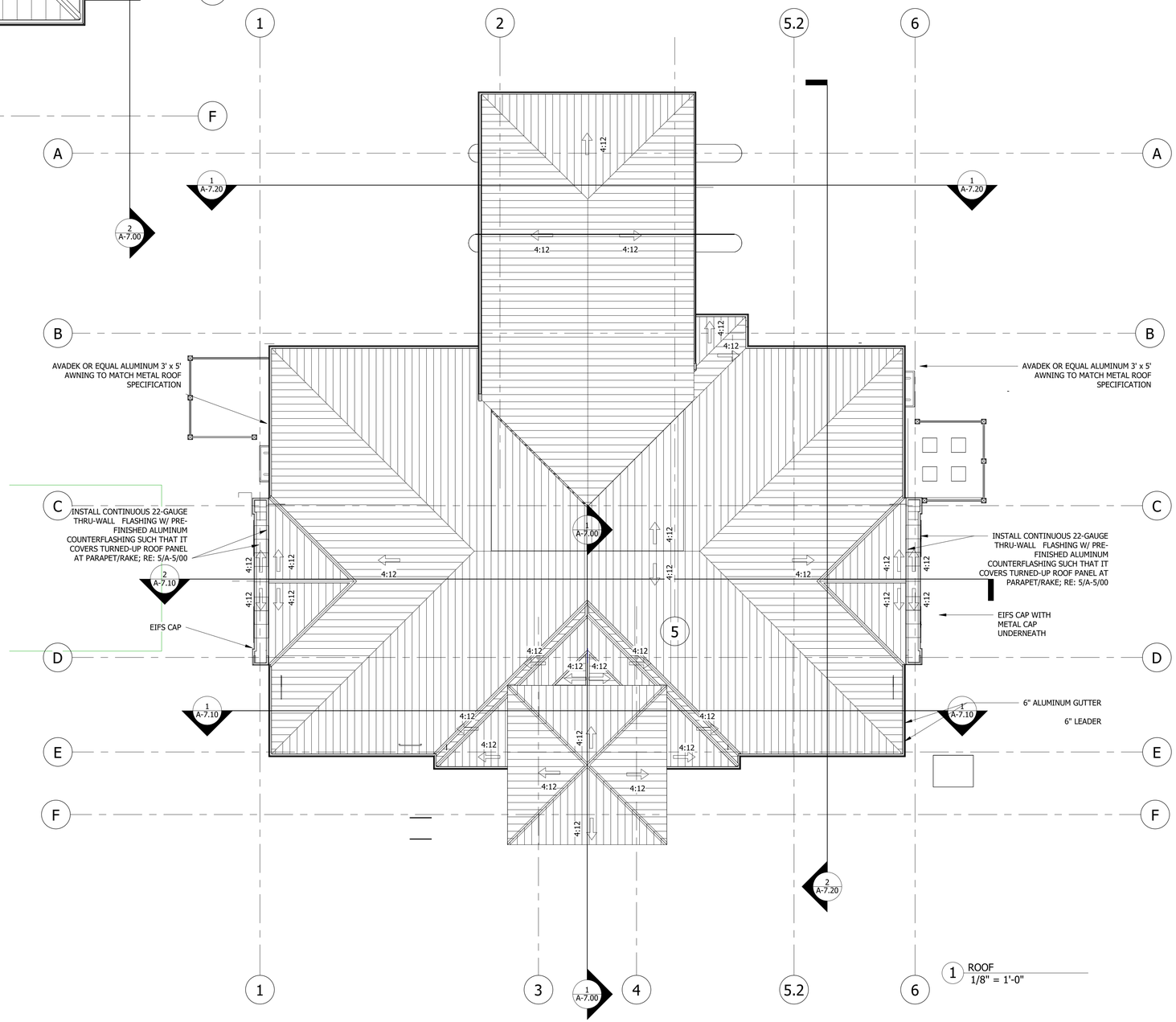


2 TOWER PLAN
1/4" = 1'-0"



1 ROOF
1/8" = 1'-0"

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REGISTERED ARCHITECT
THOMAS B. MAYER
14288
STATE OF TEXAS
4.13.26

DRAWING TITLE
ROOF PLAN

DRAWN BY	BY	SHEET NO.
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APPROVED BY	TB	

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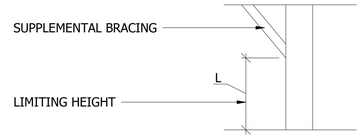
THE ALPHANUMERIC DESIGNATION IN EACH PARTITION TYPE SYMBOL DESCRIBES THE PARTITION CONSTRUCTION, THICKNESS, AND FIRE RATING, IF REQUIRED.

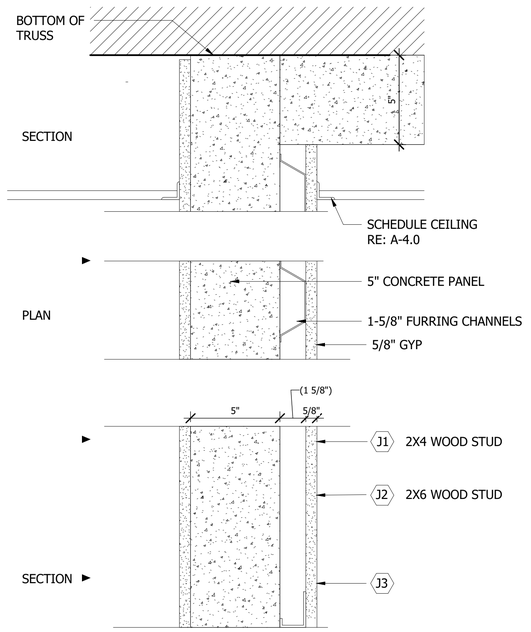
WHERE FIRE RESISTIVE GYPSUM WALLBOARD CONSTRUCTION IS INDICATED. PROVIDE "TYPE X" GYPSUM WALLBOARD AND PROVIDE SEALANT AT PERIMETER AND ALL PENETRATIONS, TYPICAL BOTH SIDES OF PARTITION. MARKINGS AND IDENTIFICATIONS REQUIRED ABOVE WALLS PER IBC 703.7 (15FT OFF END WALLS AND 30 FT MAX INTERNALS)

UNDERWRITERS LABORATORY AND OTHER TESTING AGENCY DESIGNATIONS INDICATED FOR FIRE RESISTIVE CONSTRUCTION ARE GIVEN FOR PURPOSES OF DESCRIBING CONSTRUCTION REQUIREMENTS ONLY AND ARE NOT INTENDED TO LIMIT MANUFACTURERS OF MATERIALS. COMPLY WITH THE CONSTRUCTION REQUIREMENTS OF THE INDICATED DESIGN.
LIMITING HEIGHTS GIVE THE MAXIMUM UNSUPPORTED HEIGHT FOR THAT PARTITION TYPE BASED ON A DEFLECTION CRITERIA RATIO OF L/240. WHERE FLOOR TO STRUCTURE HEIGHT OF PARTITION EXCEEDS THE INDICATED LIMITING HEIGHT, PROVIDE SUPPLEMENTAL BRACING TO THE STRUCTURE OVERHEAD AS REQUIRED TO MAINTAIN DEFLECTION RATIO WITHIN L/240.



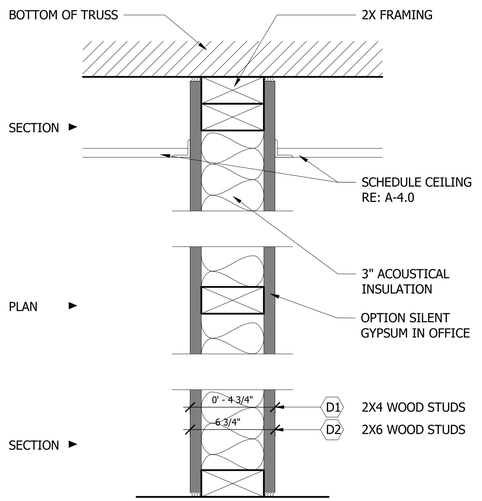
FOR PARTITION WITH "BRITTLE" FINISHES SUCH AS PLASTER AND CERAMIC TILE, DESIGN PARTITION SYSTEM TO MAINTAIN DEFLECTION RATIO WITHIN L/360.
SUSPENDED CEILING SHALL NOT BE CONSIDERED AS BRACING.
PROVIDE DUROCK CEMENT BOARD AS SUBSTRATE FOR APPLICATION OF CERAMIC TILE.
PROVIDE GREENBOARD IN ALL RESTROOMS, JANITOR CLOSETS AND BEHIND WATER FOUNTAINS.
STC RATINGS FOR SOUND WALLS ARE BASED ON LABORATORY TESTED ASSEMBLIES AND DO NOT NECESSARILY INDICATE THE ACTUAL STC RATING OF THE COMPLETED WORK.

1 GENERAL NOTES - INTERIOR PARTITIONS (A-3.00)
1 1/2" = 1'-0"



PARTITION TYPE J:
PARTITION TYPE J1: 5" MODULAR VAULT W/ 1 1/2" FURRING STRIPS INSIDE THE SAFE DEPOSIT AND 5/8" GYP. BOARD ON BOTH SIDES

PARTITION TYPE: J GENERAL SCALE : N.T.S.



PARTITION TYPE D:
2X WOOD STUDS @ 16" O.C.
WITH ONE LAYER OF 5/8" GYPSUM BOARD EACH SIDE
AND 3" FIBERGLASS ACOUSTICAL INSULATION FULL HEIGHT

PARTITION TYPE: D GENERAL SCALE : N.T.S.

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Katy, TX 77494

Project Number : 8972

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ISSUED FOR CLIENT APPROVAL	1/26/26
ISSUED FOR BIDDING	4/13/2026
ISSUED FOR PERMIT	4/13/2026
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REGISTERED ARCHITECT THOMAS B. MAYER 14288 STATE OF TEXAS
4.13.26

DRAWING TITLE
INTERIOR PARTITIONS

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CHECKED BY	BM	A-3.00
APPROVED BY	TB	

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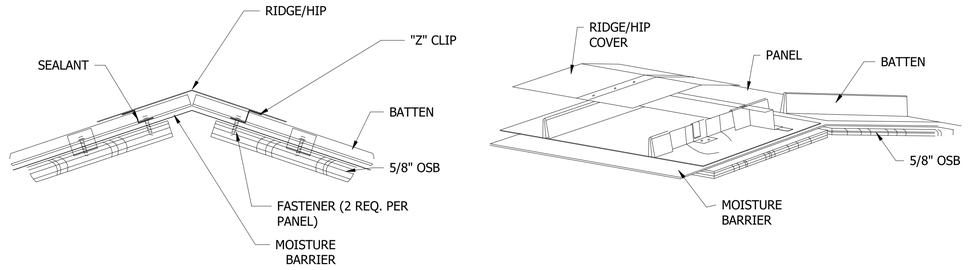
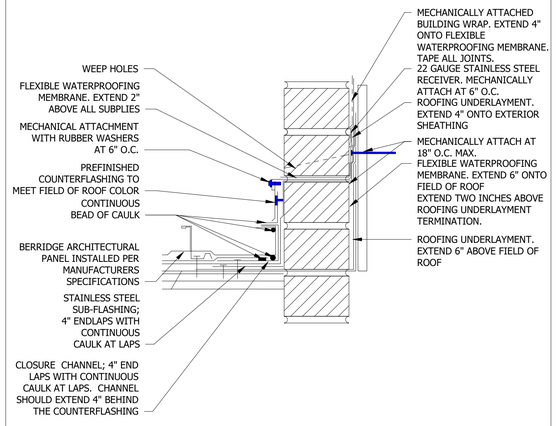
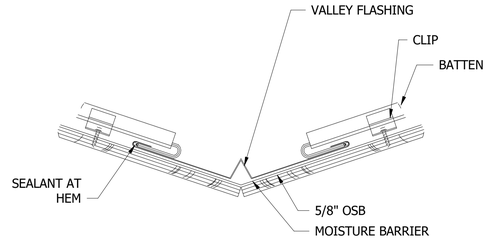


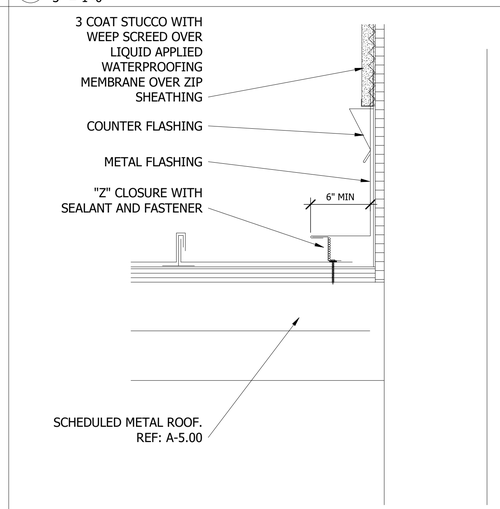
3 TYPICAL RIDGE/HIP DETAIL
1 1/2" = 1'-0"



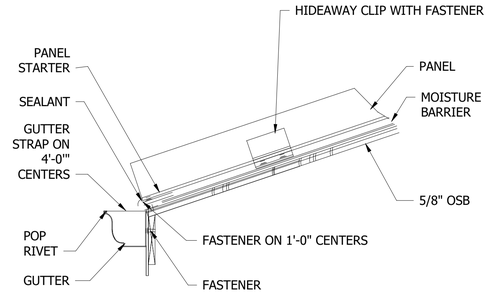
5 BRICK END WALL TO METAL ROOF DETAIL
3" = 1'-0"



2 TYPICAL VALLEY DETAIL
1 1/2" = 1'-0"



4 STUCCO ENDWALL TO METAL ROOF
3" = 1'-0"



1 EAVE WITH PANEL STARTER/GUTTER DETAIL
1 1/2" = 1'-0"

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ISSUED FOR CLIENT APPROVAL	DATE 1/26/26
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REGISTERED ARCHITECT TOMAS BRAVO MEJER 14288 STATE OF TEXAS
4.13.26

DRAWING TITLE
ROOF DETAILS

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APPROVED BY	TB

SHEET NO.
A-5.10

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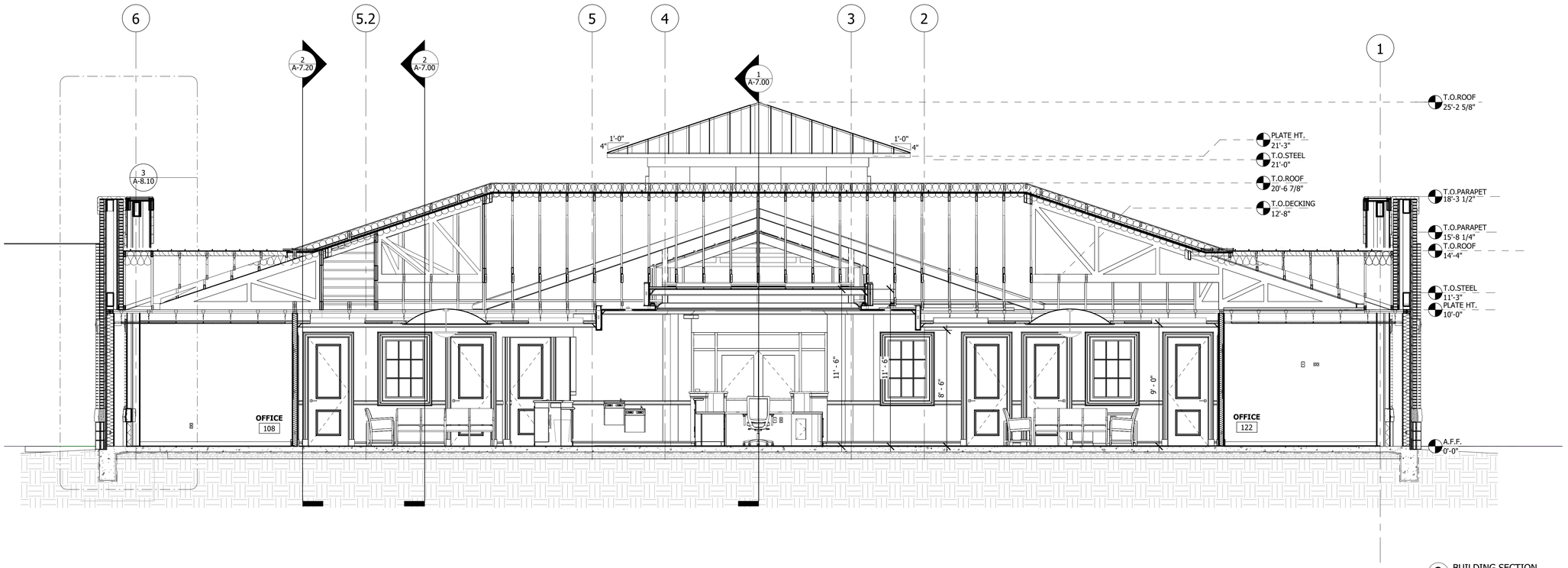
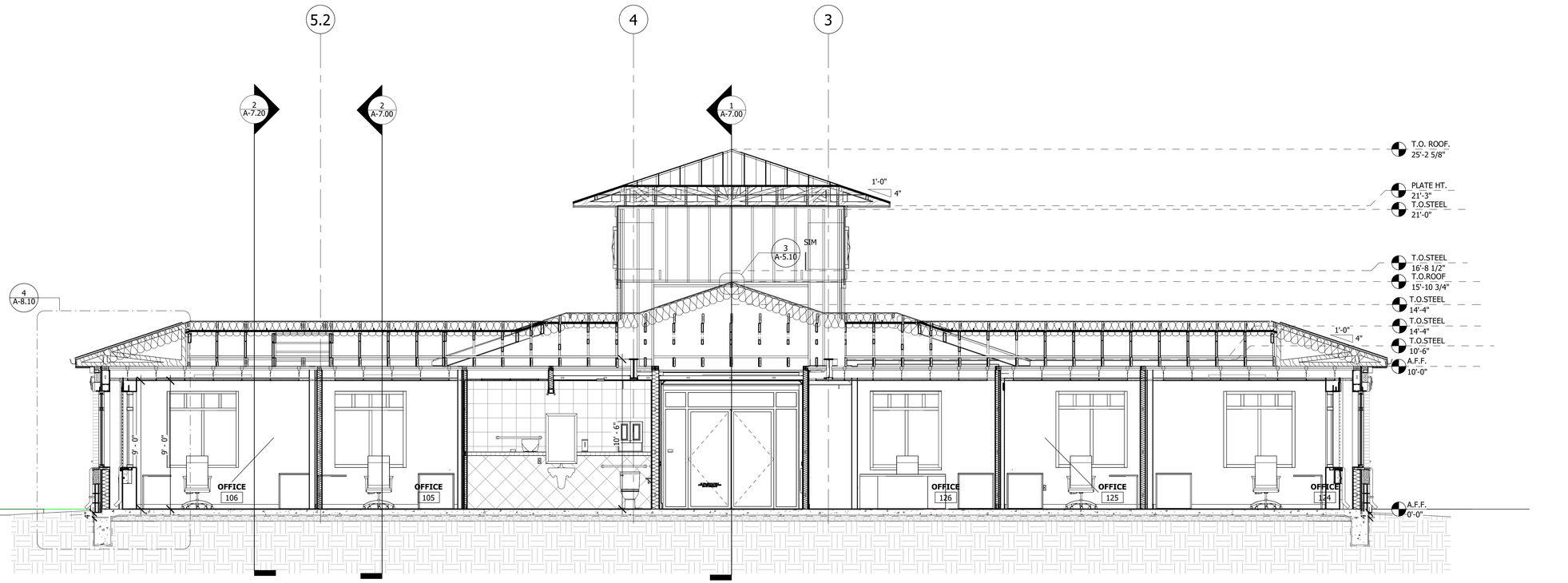


2 BUILDING SECTION
1/4" = 1'-0"



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

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REGISTERED ARCHITECT THOMAS B. MAYER 14288 STATE OF TEXAS

4.13.26

DRAWING TITLE
BUILDING SECTIONS

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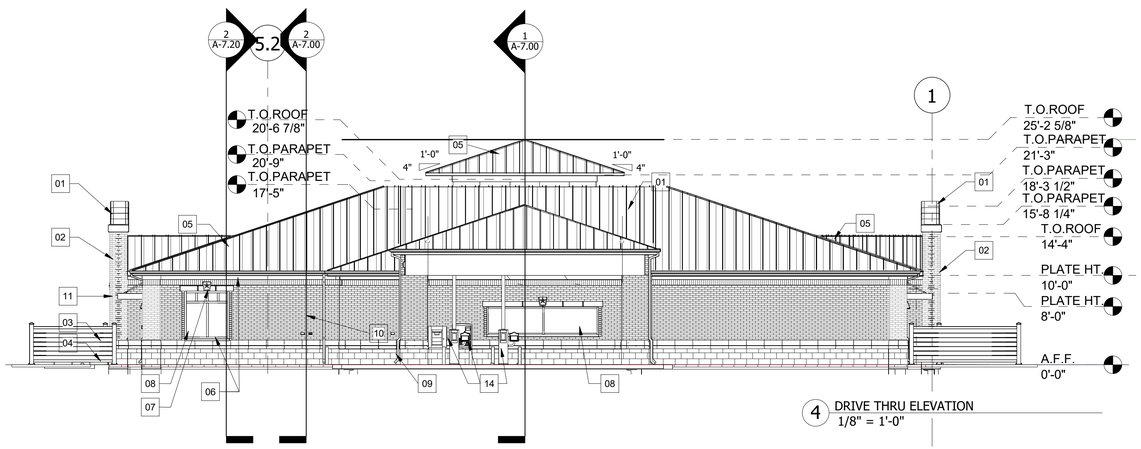
CHECKED BY	BM
APPROVED BY	TB

SHEET NO.
A-7.10



4 DRIVE THRU ELEVATION
1/8" = 1'-0"

EXTERIOR FINISH SCHEDULE

STANDING SEAM METAL ROOF: BERRIDGE FOREST GREEN (VARIANCE APPROVED)

GUTTERS & DOWNSPOUTS: TO MATCH BERRIDGE FOREST GREEN

DIRECT-APPLIED STUCCO TO MATCH:
MANUFACTURER: ICI COLOR: WHITE BUCKS (#493)

HOLLOW METAL DOORS AND FRAMES: RE: A-2.00
WINDOW FRAMES: GREEN TO MATCH BERRIDGE (OLDCASTLE INTERSATE GREEN)
GLASS: SEE SHEET A-2.00

FIELD BRICK:
MANUFACTURER: MERDIAN
COLOR: RED WIRE CUT #222
SIZE: MODULAR
MORTAR: RIO GRANDE RED

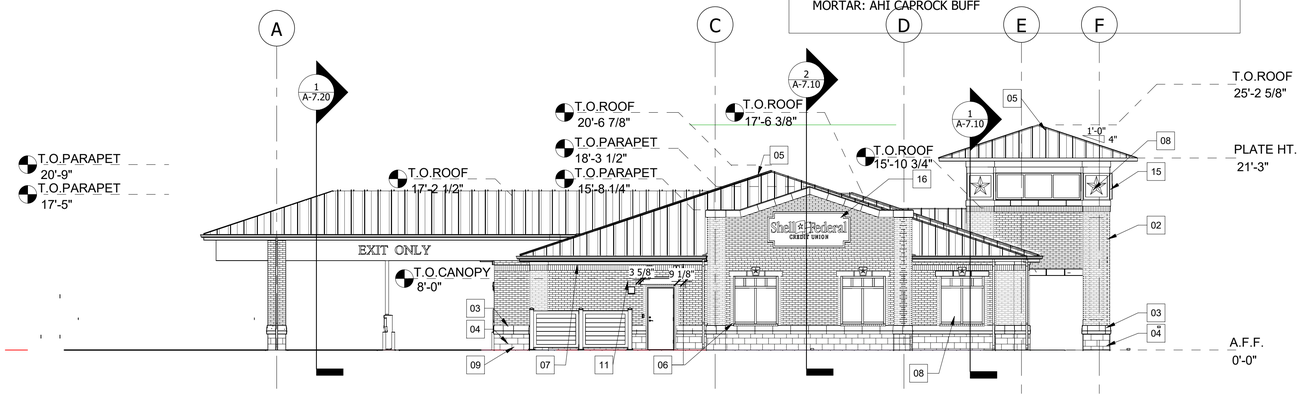
STUCCO TO MATCH:
COLOR: #1039 STONE HOUSE

SPLIT FACE CMU:
COLOR: SCP WHITE LIMESTONE
MORTAR: AHI CAPROCK BUFF

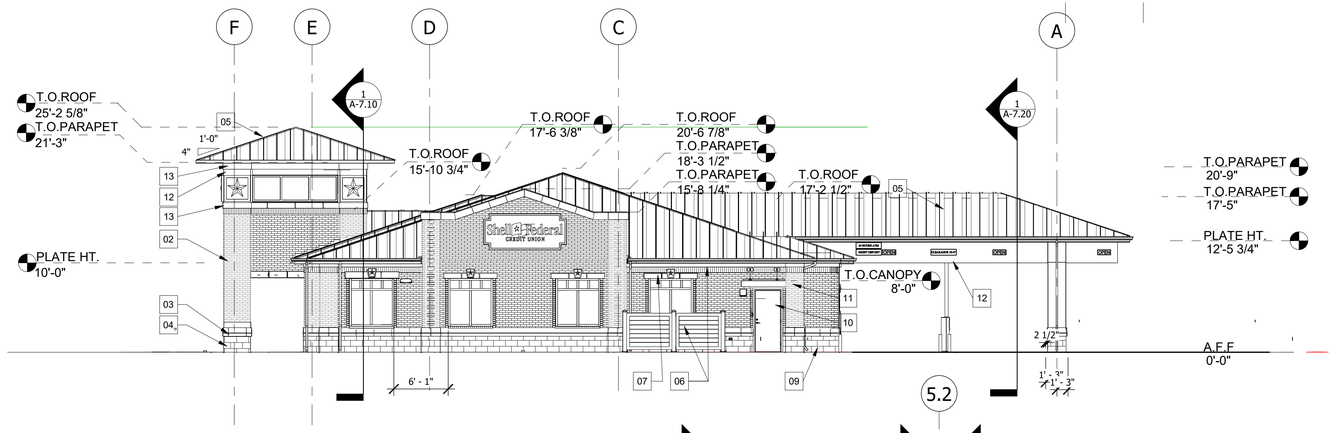
WATERTABLE: SPLIT FACE SILL WITH CHAMFER (JOHNSON CONCRETE PRODUCT)
COLOR: WHITE LIMESTONE
MORTAR: AHI CAPROCK BUFF

ELEVATION NOTES

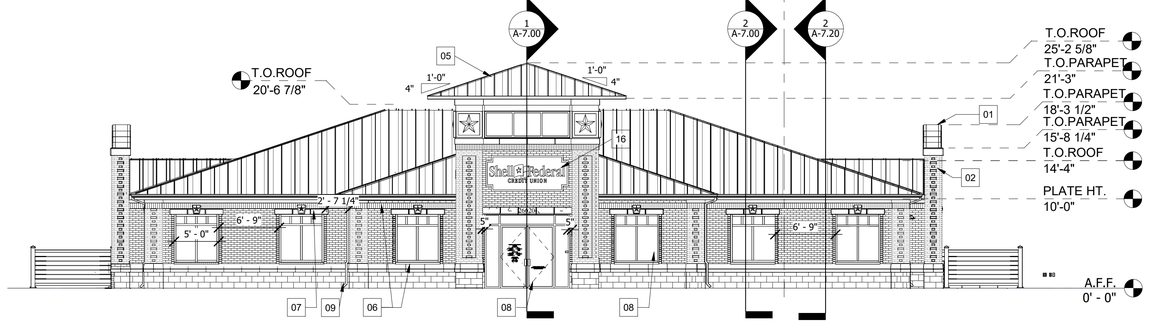
NOTE NUMBER	NOTE TEXT
01	STUCCO MOLDS;RE: 3/A-8.00
02	MODULAR BRICK; FIELD COLOR: RE: SCHEDULE
03	SPLIT FACE CMU (TEXTURED): RE: SCHEDULE
04	SPLIT FACE CMU (SMOOTH); RE: SCHEDULE
05	STANDING SEAM METAL ROOF; RE: A-5.00
06	SOLDIER COURSE MODULAR BRICK; ACCENT BRICK
07	CAST STONE HEADER WITH KEYSTONE; RE: A-8.30
08	SCHEDULED WINDOW; RE: A-2.00
09	PRE-FINISHED GUTTERS AND DOWNSPOUTS; RE:A-5.00
10	HOLLOW METAL DOOR: RE: A-2.00
11	METAL AWNING: RE: A-5.00
12	STUCCO; RE: SCHEDULE
13	STUCCO MOLD BAND; RE: A-9.00
14	BANK EQUIPMENT. REF: SPEC SHEETS
15	STUCCO MOLD TRIMS;RE:A-9.00
16	SIGNAGE: RE: A-14.10



3 ALAMO WALL DRIVE THRU EXIT ELEVATION
1/8" = 1'-0"



2 ALAMO WALL DRIVE THRU ENTRY ELEVATION
1/8" = 1'-0"



1 FRONT ELEVATION
1/8" = 1'-0"

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REGISTERED ARCHITECT THOMAS B. MAYER 14288 STATE OF TEXAS
4.13.26

DRAWING TITLE
EXTERIOR BUILDING ELEVATIONS

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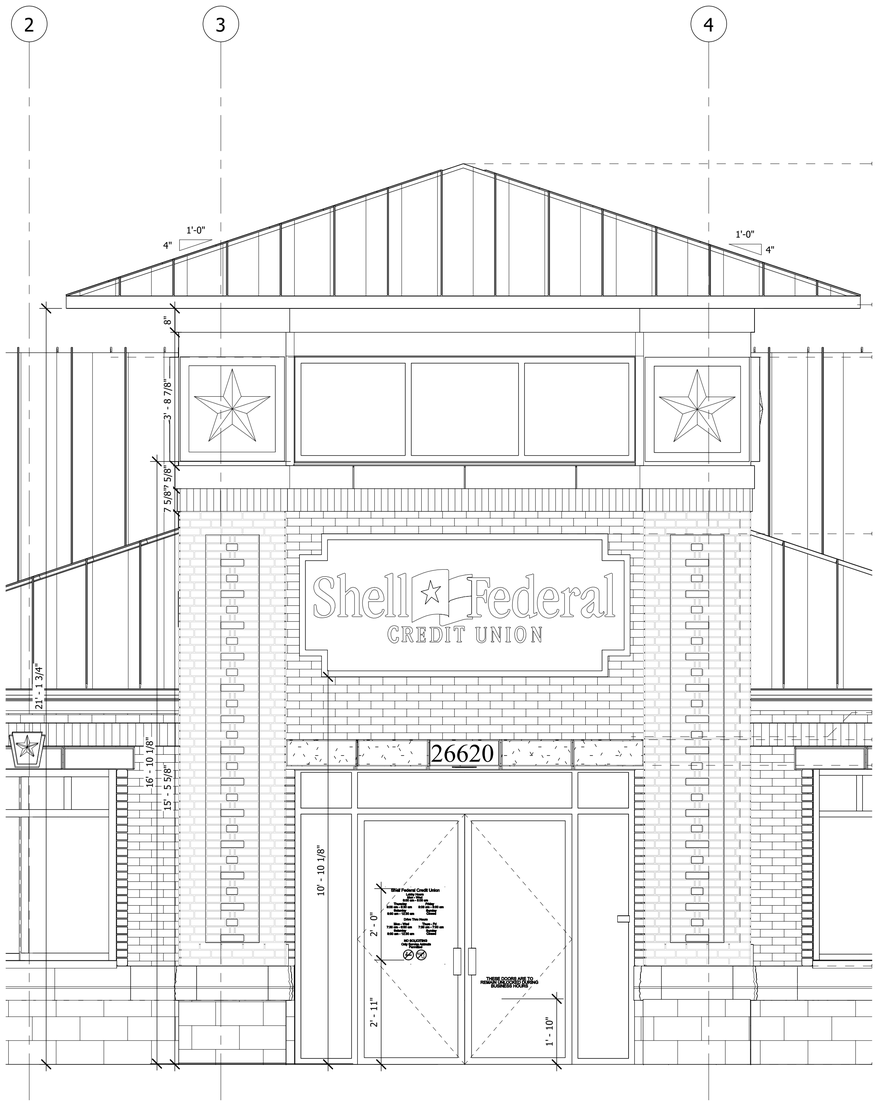

1 TOWER
1/2" = 1'-0"

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DRAWING TITLE
EXTERIOR ELEVATIONS

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APPROVED BY	TB	

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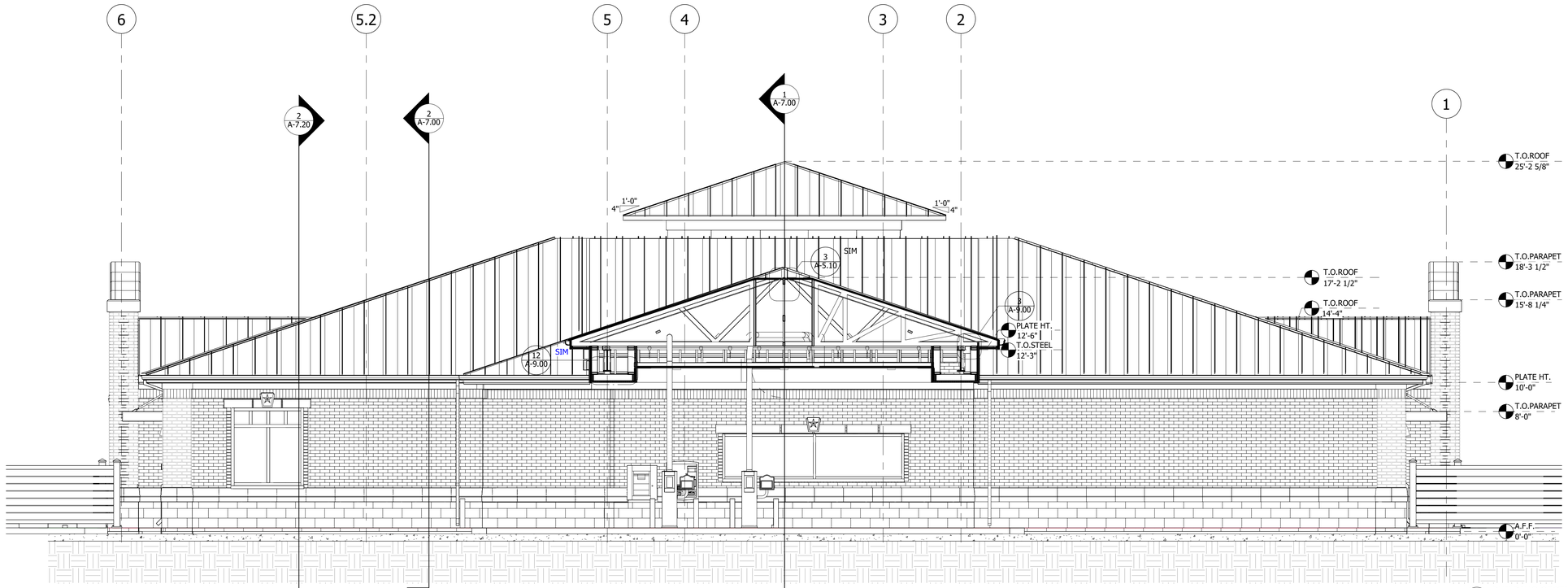
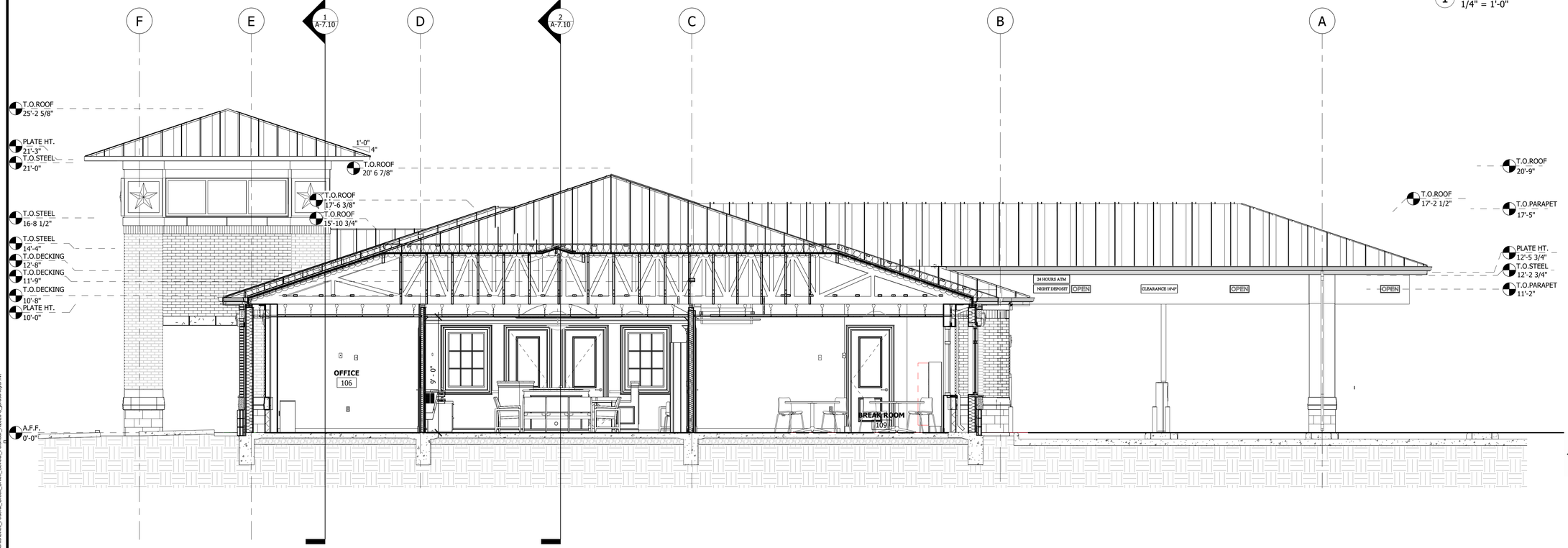


1 BUILDING SECTION 5
1/4" = 1'-0"



2 BUILDING SECTION 6
1/4" = 1'-0"

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REGISTERED ARCHITECT
JAMES B. NATMEYER
14288
STATE OF TEXAS
4.13.26

DRAWING TITLE
BUILDING SECTIONS

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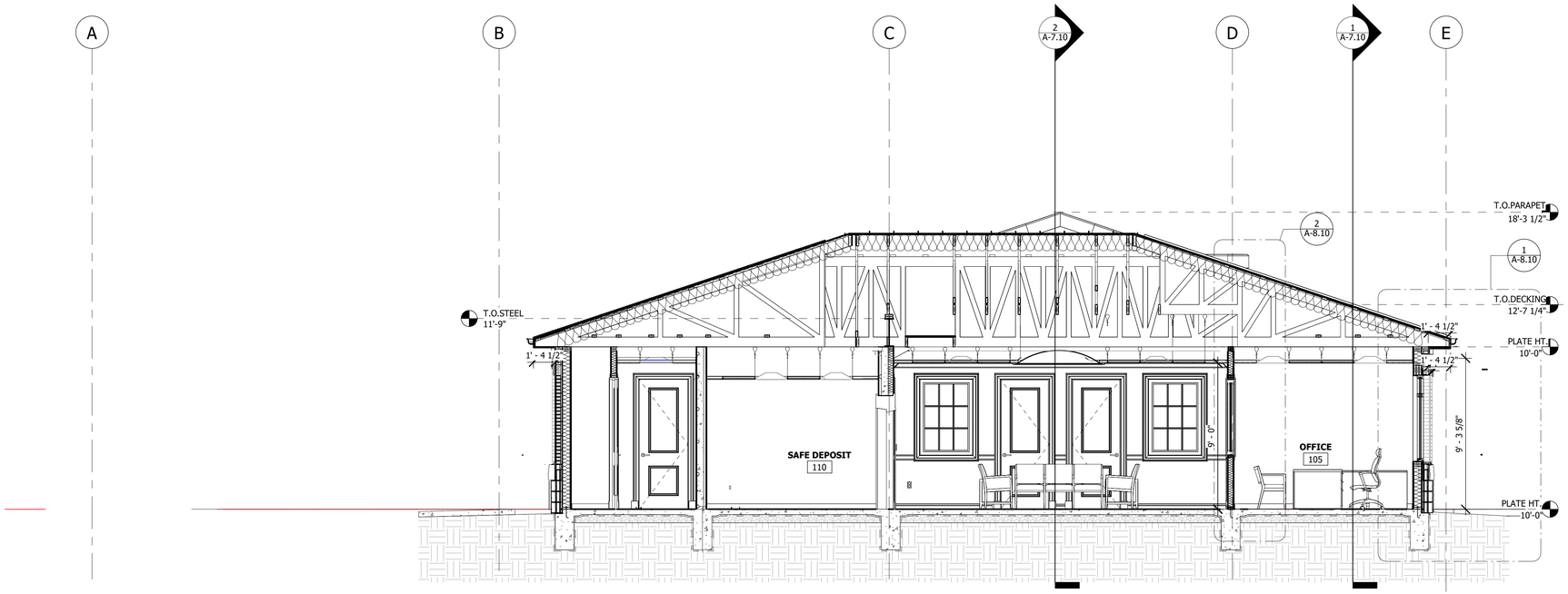
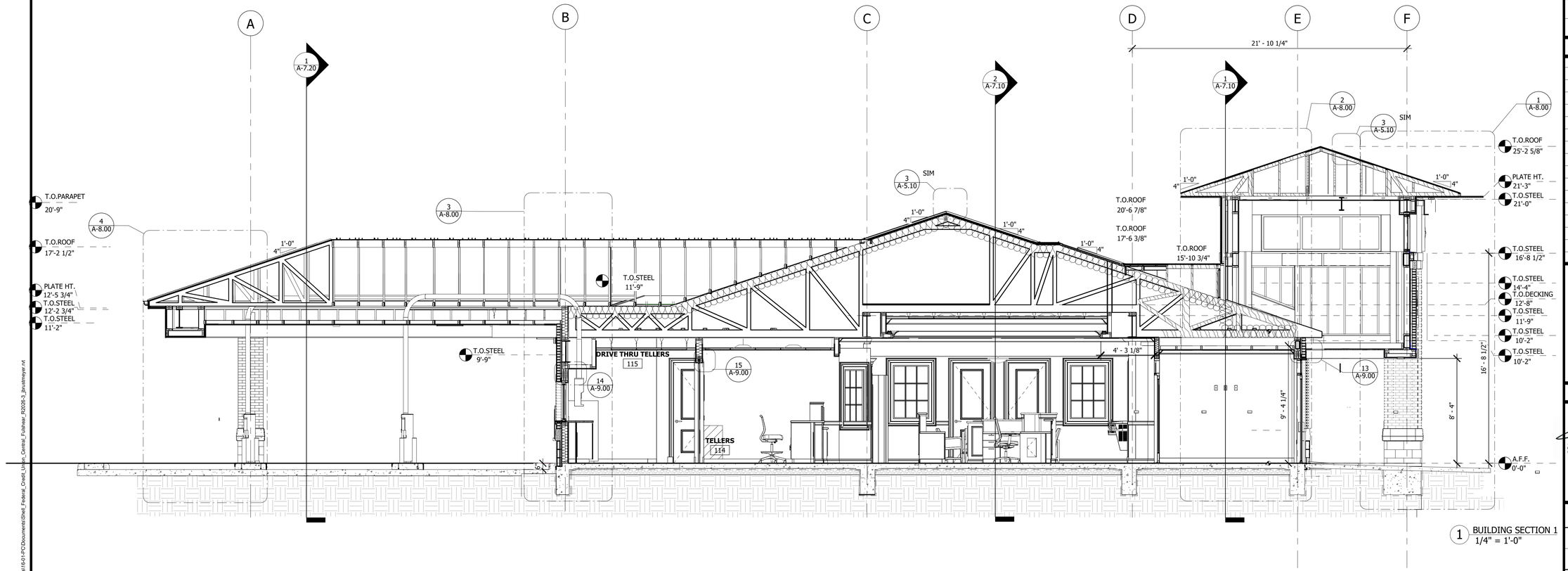
APPROVED BY	TB

SHEET NO. A-7.20



2 BUILDING SECTION
1/4" = 1'-0"



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

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REGISTERED ARCHITECT
THOMAS B. MAYER
14288
STATE OF TEXAS
4.13.26

DRAWING TITLE
BUILDING SECTIONS

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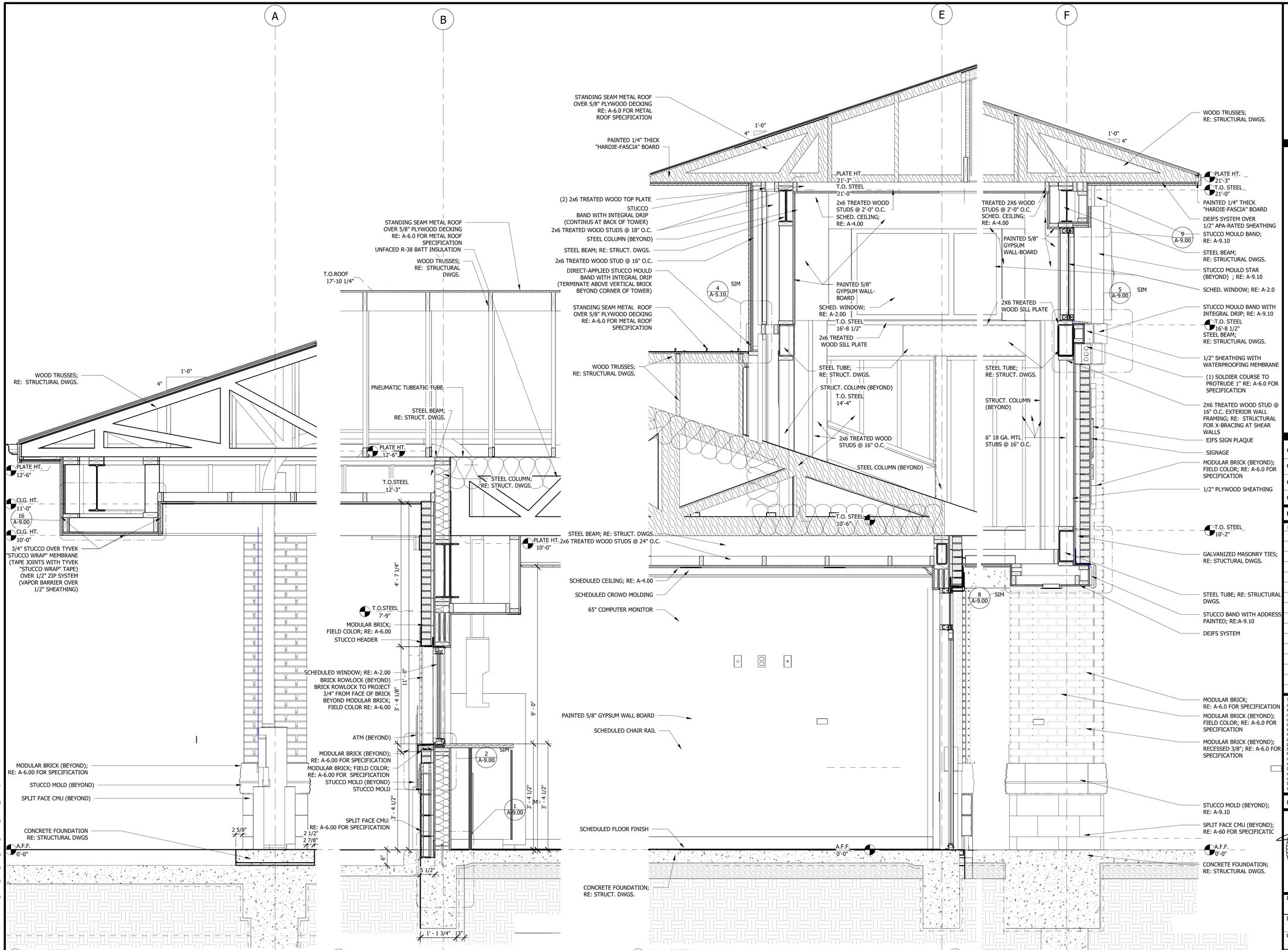

4 WALL SECTION 3/4" = 1'-0"

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

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

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

C:\Users\16-01-PC\Documents\Shell_Federal_Credit_Union_Central_Fulshear_R2026-3_jbrustmeyer.rvt

SLI DESIGN, INC.

ARCHITECTURE PLANNING INTERIOR DESIGN

15810 PARK TEN PLACE, SUITE 300
HOUSTON, TEXAS 77084
713-465-4650
www.sligroup.com

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Shell Federal CREDIT UNION

26620 FM 1093 Rd

Katy, TX 77494

Project Number : 8972

	DATE
ISSUED FOR CLIENT APPROVAL	1/26/26
ISSUED FOR BIDDING	4/13/2026
ISSUED FOR PERMIT	4/13/2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE

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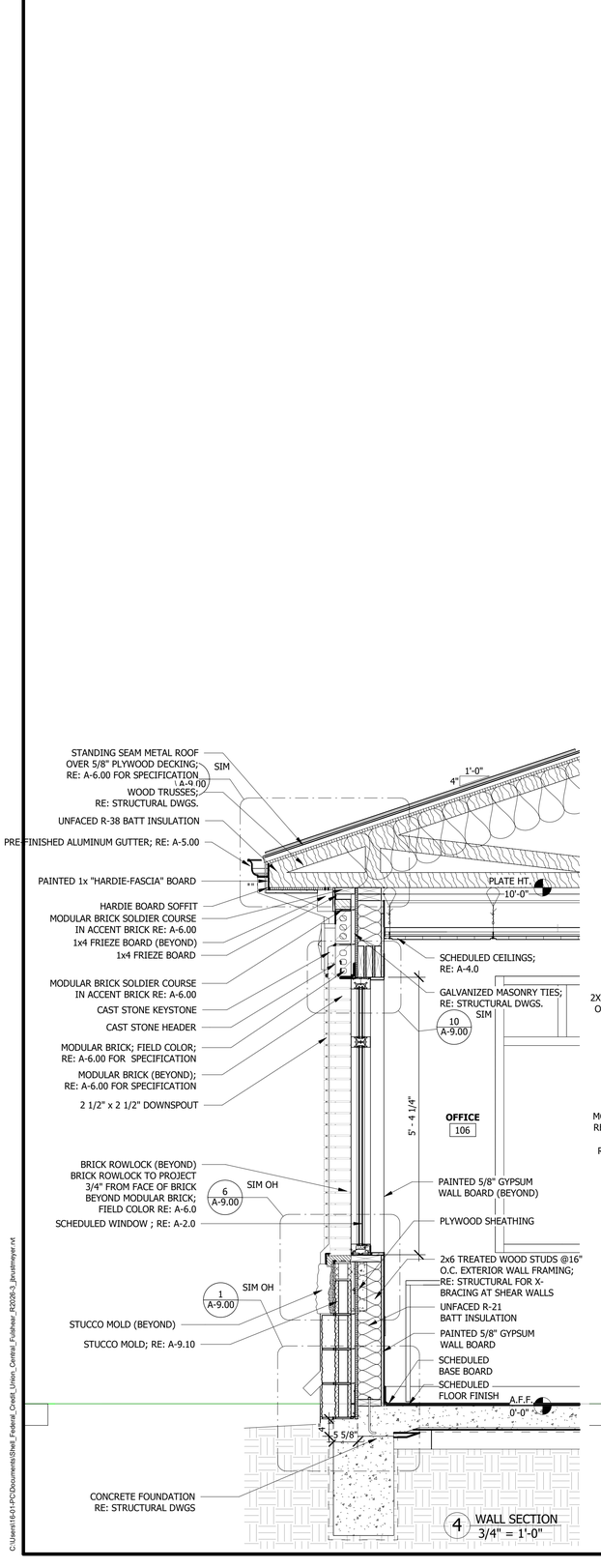
REGISTERED ARCHITECT THOMAS B. MAYER 14288 STATE OF TEXAS

4.13.26

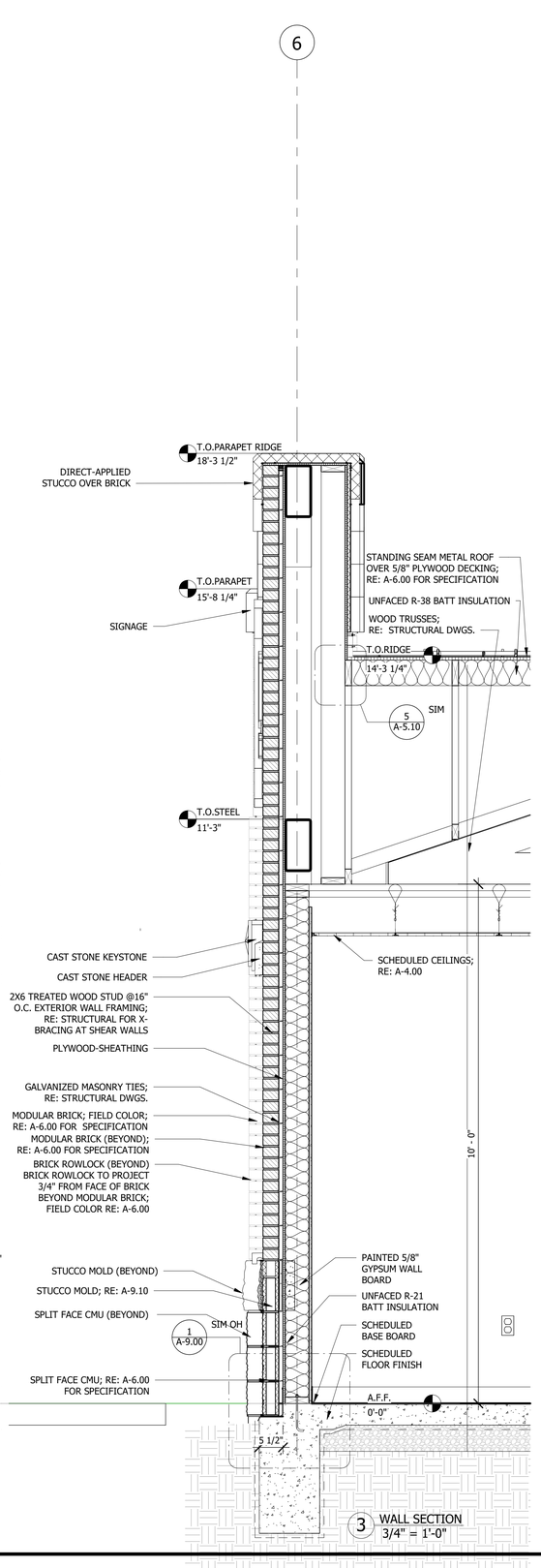
DRAWING TITLE
WALL SECTIONS

DRAWN BY	JB
CHECKED BY	BM
APPROVED BY	TB

SHEET NO. A-8.00



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



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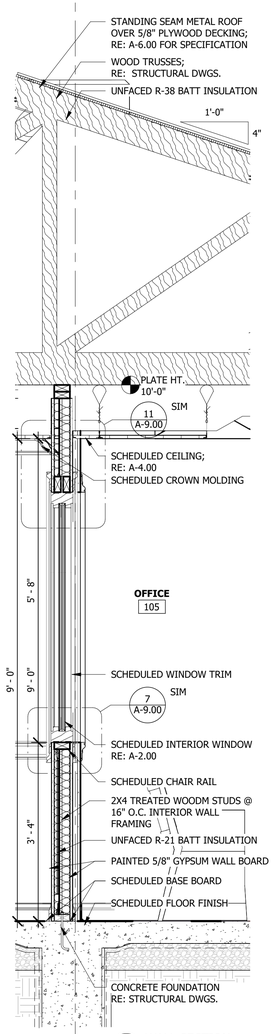

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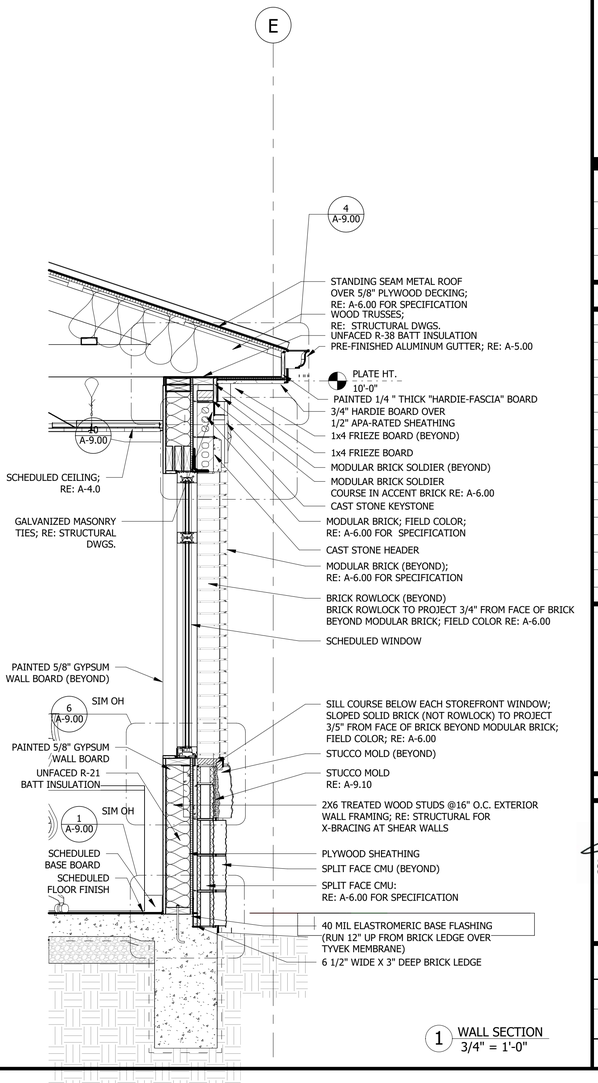
3/4" = 1'-0"



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

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REGISTERED ARCHITECT TOMMY S. BARKER 14288 STATE OF TEXAS
4.13.26

DRAWING TITLE
WALL SECTIONS

DRAWN BY	JB
CHECKED BY	BM
APPROVED BY	TB
SHEET NO.	A-8.10

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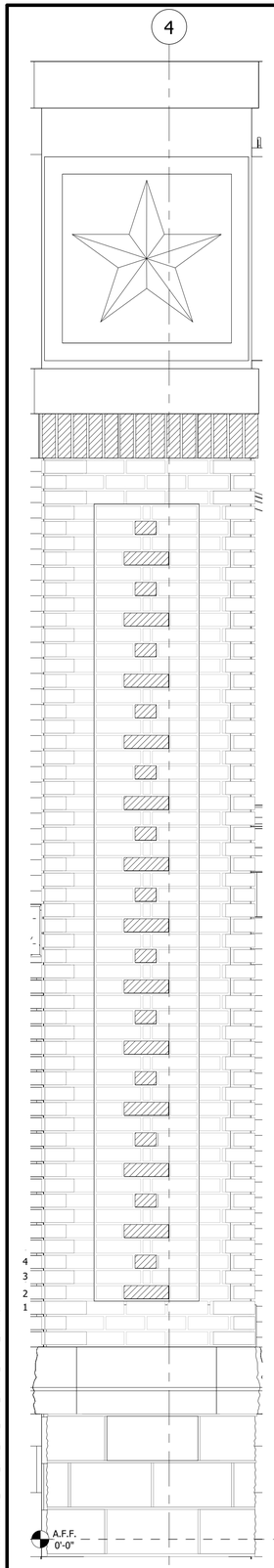
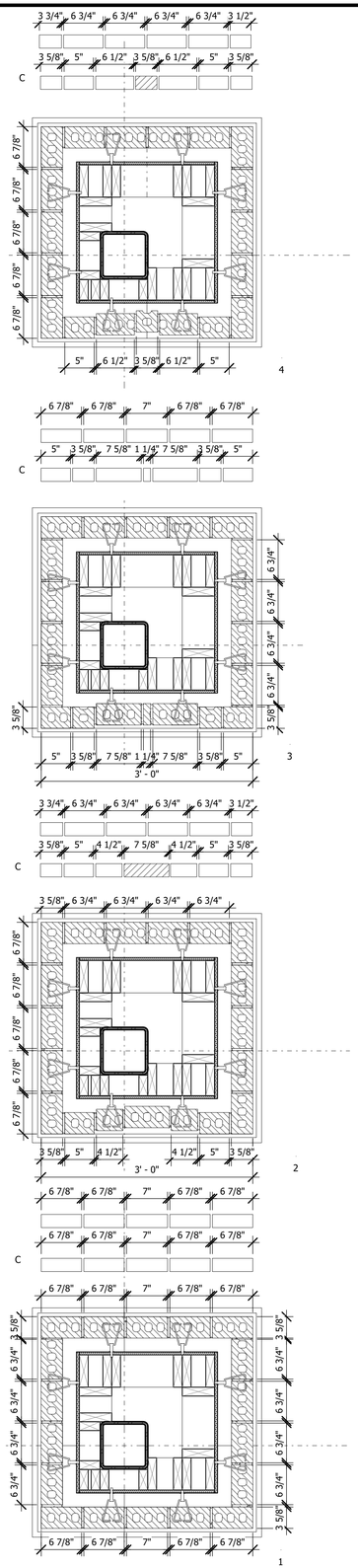
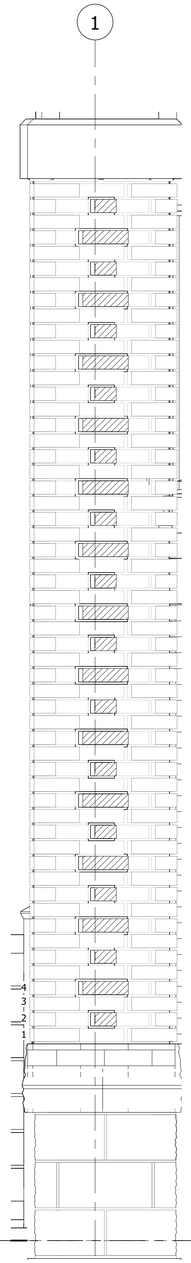


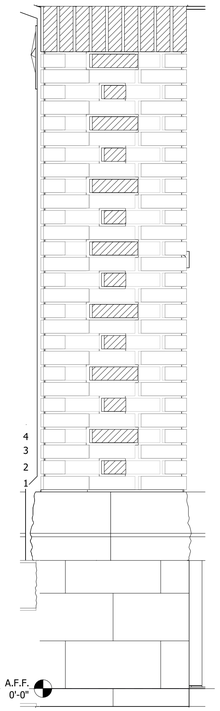
8 SIDE A
1" = 1'-0"



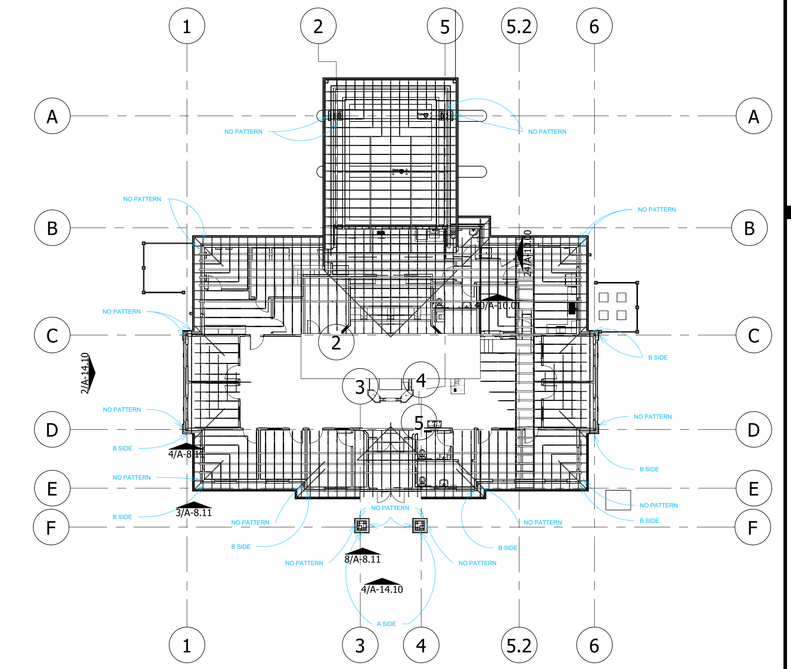
7 TOWER COLUMN BRICK PLAN DETAILS
1" = 1'-0"



4 SIDE B @ ALAMO WALL
1" = 1'-0"



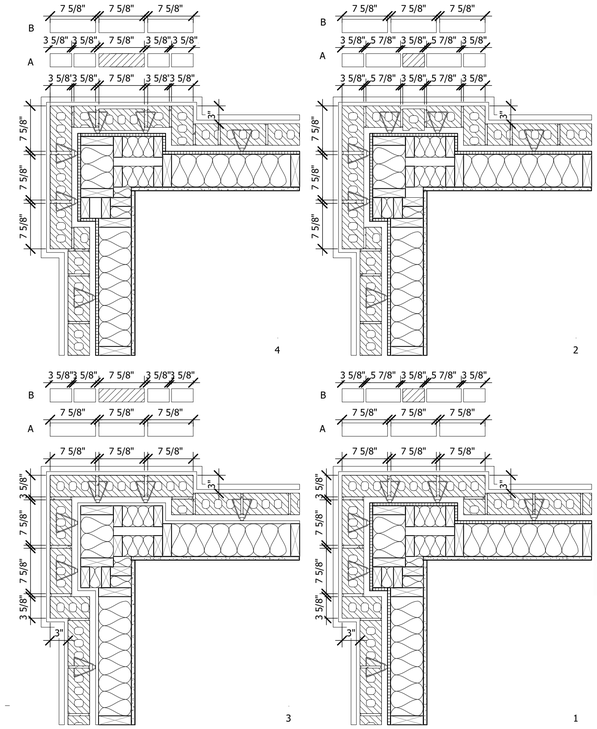
3 SIDE B
1" = 1'-0"



2 BRICK LAYOUT @ PILASTER WALL
1/16" = 1'-0"

GENERAL NOTE

VERTICAL MORTAR JOINT WILL VARY TO ACCOMMODATE 3' WIDE COLUMN



9 TYPICAL PILATER COLUMN BRICK PLAN DETAILS
1" = 1'-0"

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Katy, TX 77494

Project Number : 8972

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REVISIONS

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REGISTERED ARCHITECT THOMAS B. TAYLOR 14288 STATE OF TEXAS
4.13.26

DRAWING TITLE
COLUMN LAY OUT

DRAWN BY	JB	SHEET NO.
CHECKED BY	JB	A-8.11
APPROVED BY	JB	

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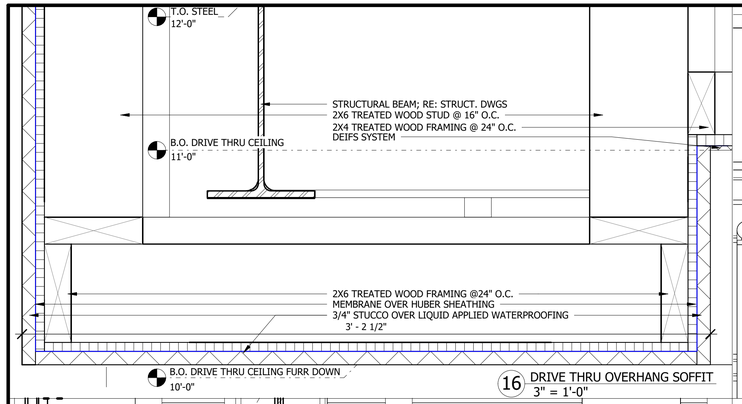
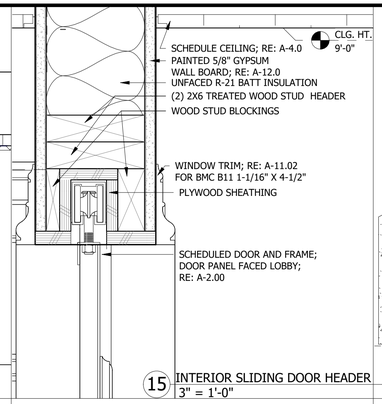
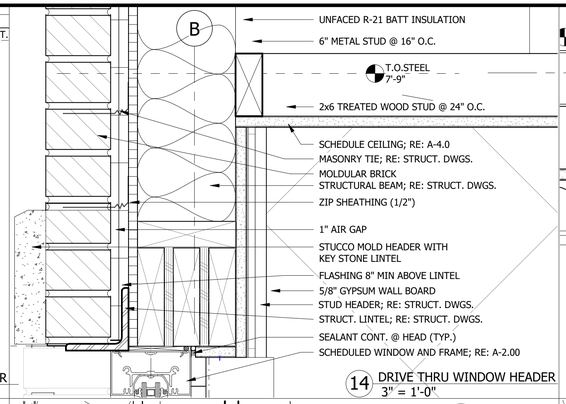


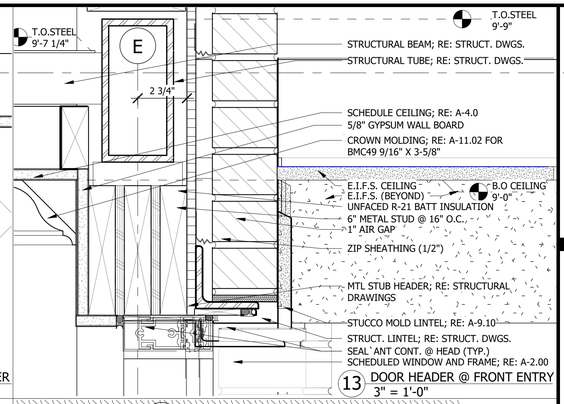
16 DRIVE THRU OVERHANG SOFFIT
3" = 1'-0"



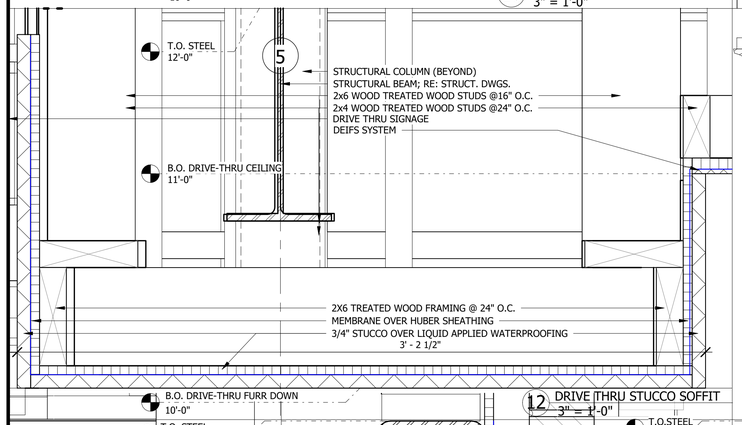
15 INTERIOR SLIDING DOOR HEADER
3" = 1'-0"



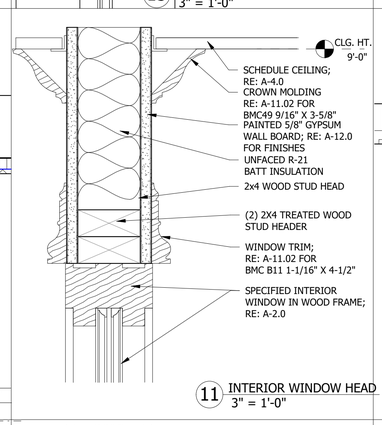
14 DRIVE THRU WINDOW HEADER
3" = 1'-0"



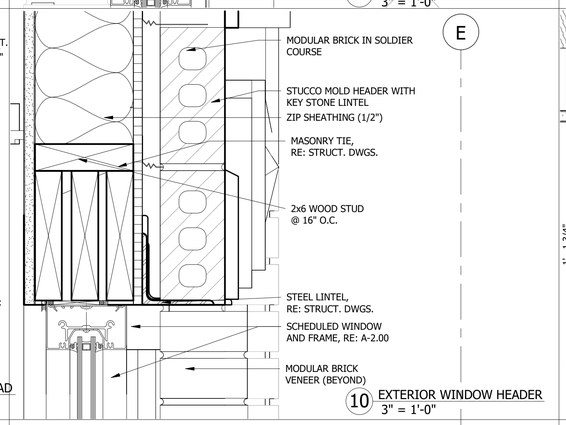
13 DOOR HEADER @ FRONT ENTRY
3" = 1'-0"



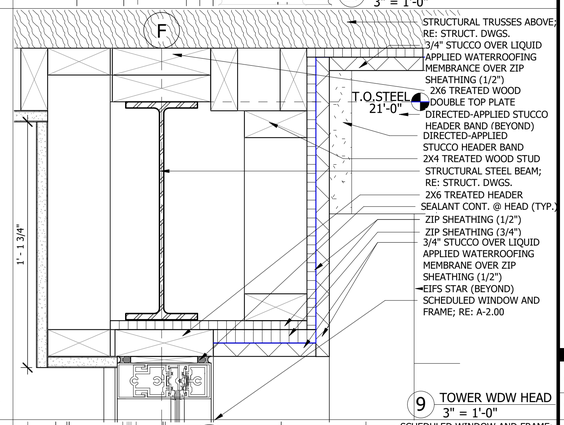
12 DRIVE THRU STUCCO SOFFIT
3" = 1'-0"



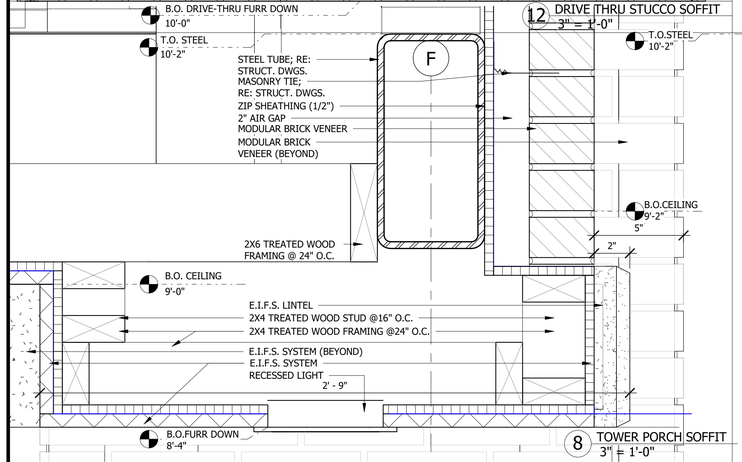
11 INTERIOR WINDOW HEAD
3" = 1'-0"



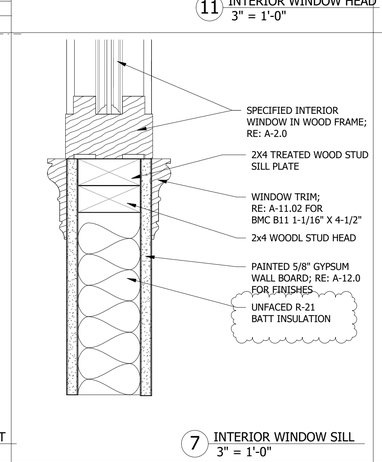
10 EXTERIOR WINDOW HEADER
3" = 1'-0"



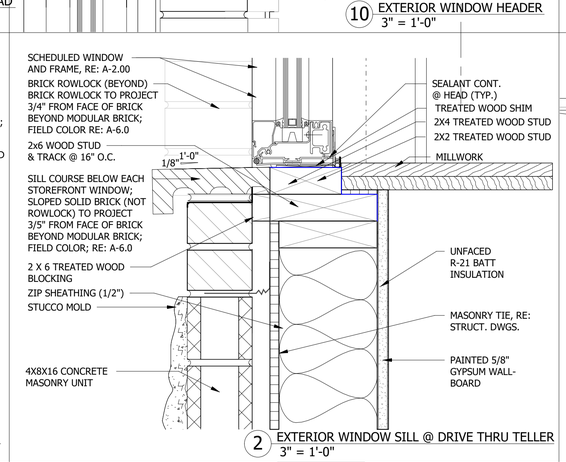
9 TOWER WDW HEAD
3" = 1'-0"



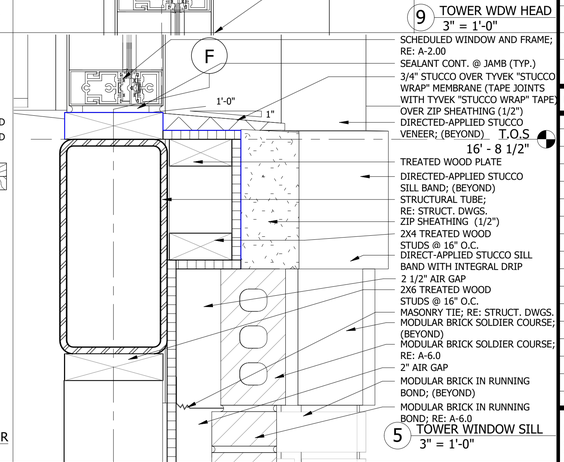
8 TOWER PORCH SOFFIT
3" = 1'-0"



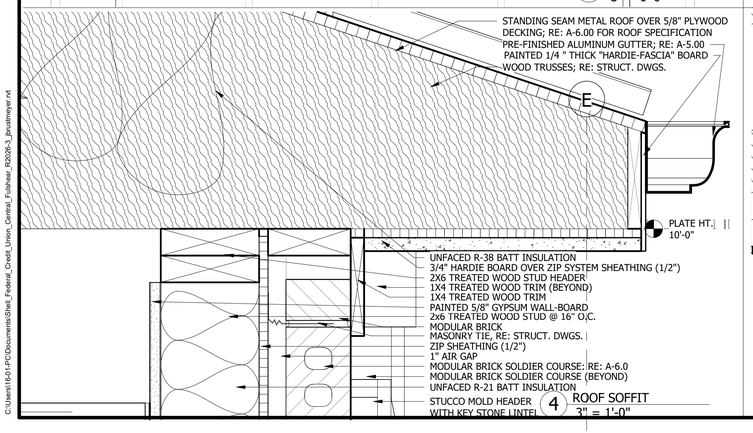
7 INTERIOR WINDOW SILL
3" = 1'-0"



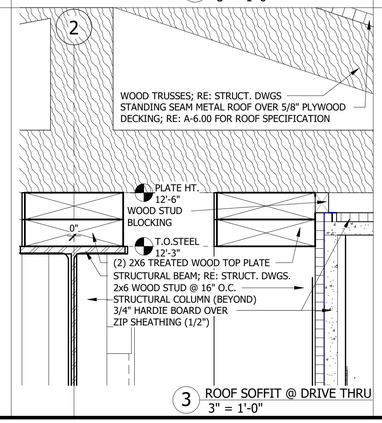
2 EXTERIOR WINDOW SILL @ DRIVE THRU TELLER
3" = 1'-0"



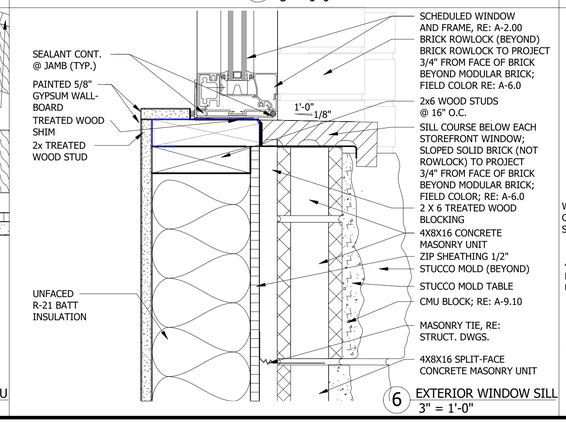
5 TOWER WINDOW SILL
3" = 1'-0"



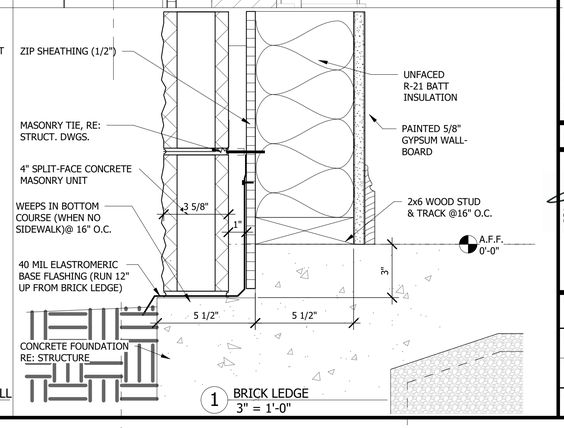
4 ROOF SOFFIT
3" = 1'-0"



3 ROOF SOFFIT @ DRIVE THRU
3" = 1'-0"



6 EXTERIOR WINDOW SILL
3" = 1'-0"



1 BRICK LEDGE
3" = 1'-0"

T.O.P
9' - 6"
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ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE
1	BULLETIN 6	12/18/24

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REGISTERED ARCHITECT
JOHN S. BAUMER
14288
STATE OF TEXAS
4.13.26

DRAWING TITLE
SECTION DETAILS

DRAWN BY	JB
CHECKED BY	BM
APPROVED BY	TB

SHEET NO.
A-9.00

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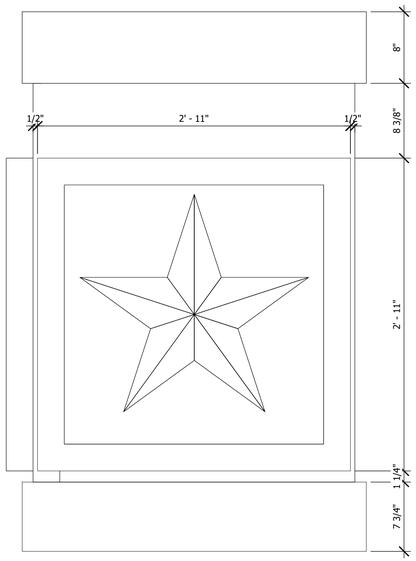
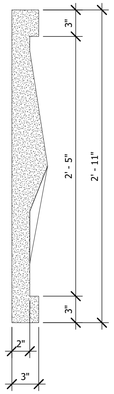
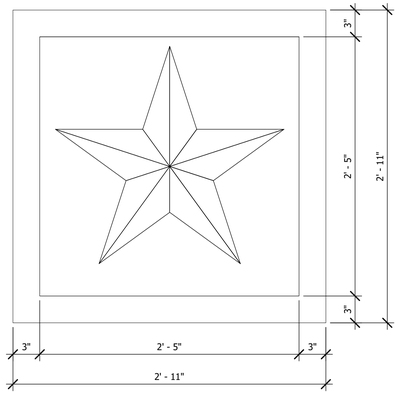


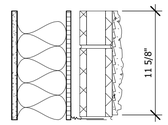
15 STUCCO STAR ON TOWER ELEVATION
1 1/2" = 1'-0"



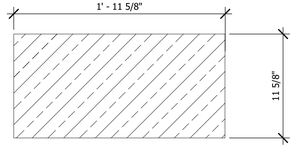
14 STUCCO STAR SECTION
1 1/2" = 1'-0"



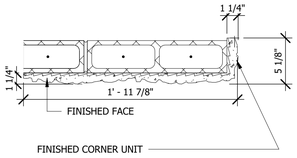
13 STUCCO STAR ELEVATION
1 1/2" = 1'-0"



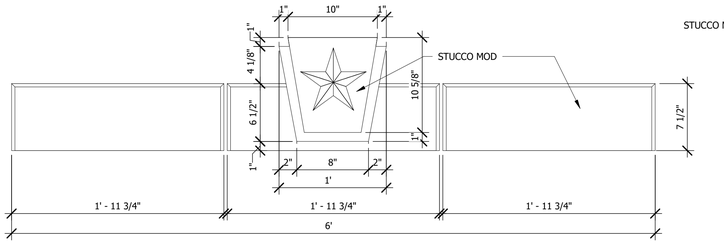
12 WATER TABLE CORNER @ SIDE VIEW
1 1/2" = 1'-0"



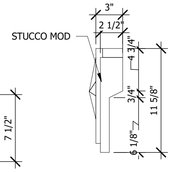
11 WATER TABLE CORNER STUCCO @ FRONT VIEW
1 1/2" = 1'-0"



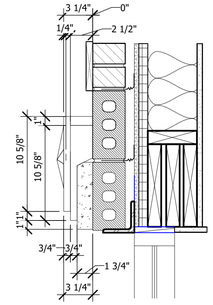
10 WATER TABLE CORNER STUCCO @ TOP VIEW
1 1/2" = 1'-0"



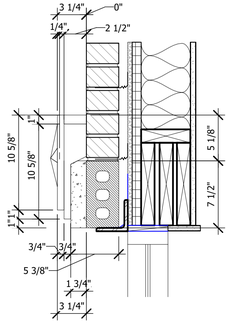
9 KEY STONE WINDOW HEADER FRONT VIEW
1 1/2" = 1'-0"



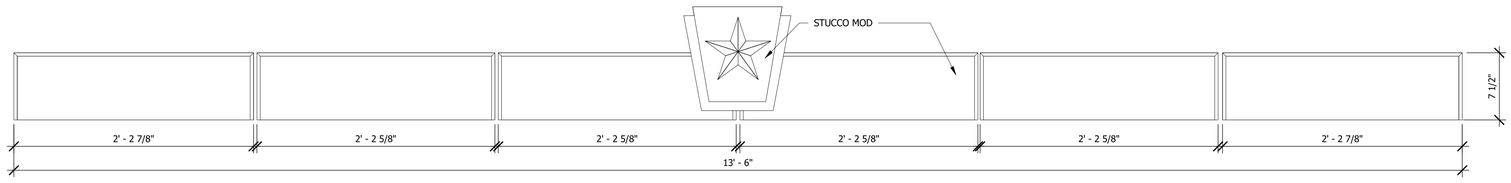
8 KEY STONE CUT VIEW
1 1/2" = 1'-0"



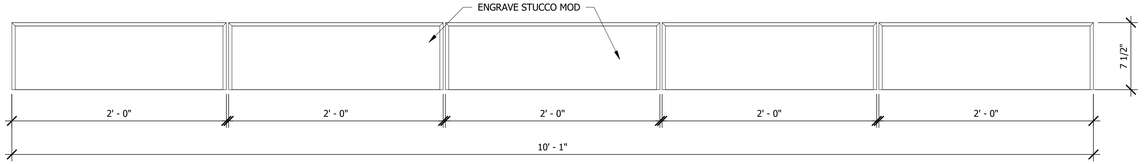
7 TYPICAL KEY STONE HEADER PROFILE
1 1/2" = 1'-0"



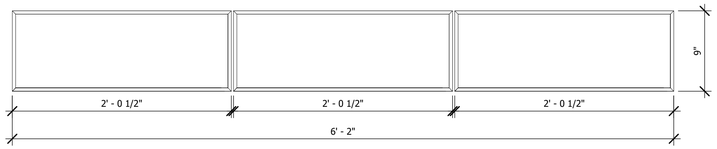
6 KEY STONE HEADER PROFILE @ ALAMO WALL
1 1/2" = 1'-0"



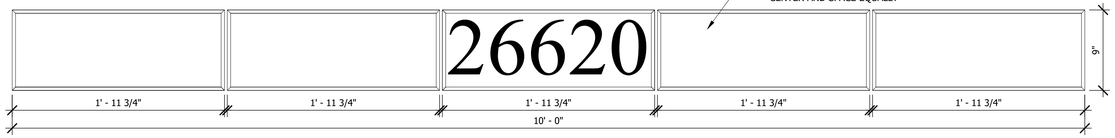
5 STUCCO HEADER ABOVE DRIVE THRU WINDOW
1 1/2" = 1'-0"



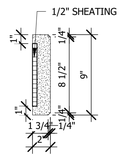
4 STUCCO HEADER ABOVE FRONT DOOR
1 1/2" = 1'-0"



3 STUCCO HEADER TOWER SIDE ELEVATION
1 1/2" = 1'-0"



2 STUCCO HEADER TOWER FRONT ELEVATION
1 1/2" = 1'-0"



1 STUCCO TOWER HEADER SECTION
1 1/2" = 1'-0"

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Katy, TX 77494
Project Number : 8972

	DATE
ISSUED FOR CLIENT APPROVAL	1/26/26
ISSUED FOR BIDDING	4/13/2026
ISSUED FOR PERMIT	4/13/2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE

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PRINT DATE: 4/13/2026 2:22:25 PM

REGISTERED ARCHITECT THOMAS B. TAYLOR 14288 STATE OF TEXAS
4.13.26

DRAWING TITLE
STUCCO DETAILS

DRAWN BY	Author	SHEET NO.
CHECKED BY	Checker	A-9.10
APPROVED BY	Approver	

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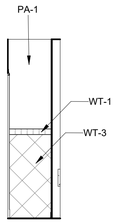
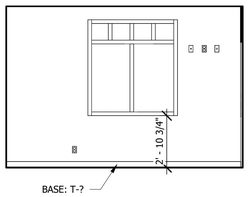
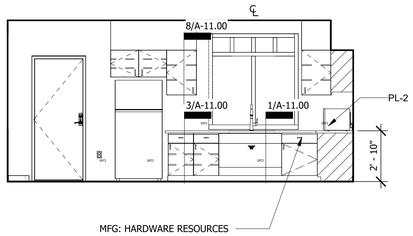


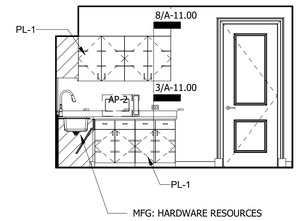
24 JANITOR 111
1/4" = 1'-0"



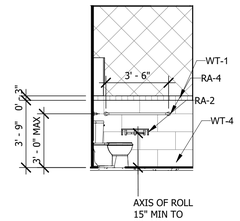
23 BREAK ROOM 109 NORTH
1/4" = 1'-0"



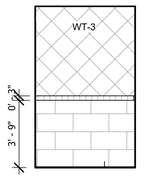
22 BREAK ROOM 109 EAST
1/4" = 1'-0"



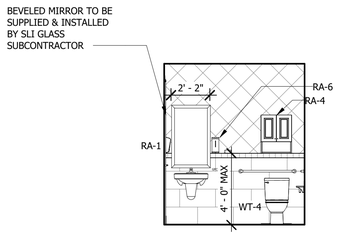
21 BREAK ROOM 109 SOUTH
1/4" = 1'-0"



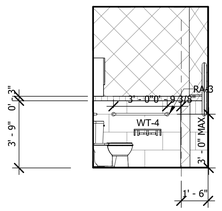
20 REST ROOM 102 WEST
1/4" = 1'-0"



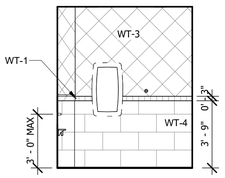
19 REST ROOM 102 NORTH
1/4" = 1'-0"



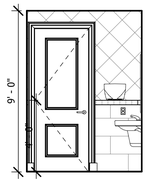
18 REST ROOM 102 SOUTH
1/4" = 1'-0"



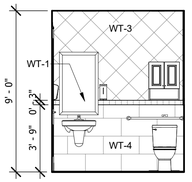
17 REST ROOM 103 WEST
1/4" = 1'-0"



16 REST ROOM 103 NORTH
1/4" = 1'-0"



15 REST ROOM 103 EAST
1/4" = 1'-0"



14 REST ROOM 103 SOUTH
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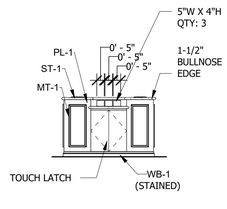
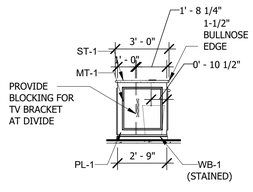
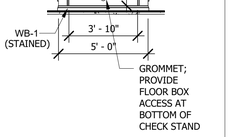


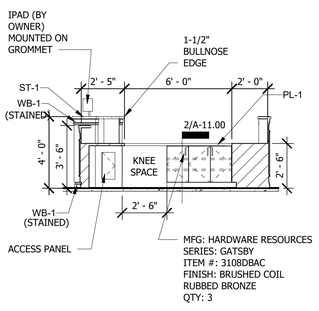
13 CHECK STAND WEST ELEVATION
1/4" = 1'-0"



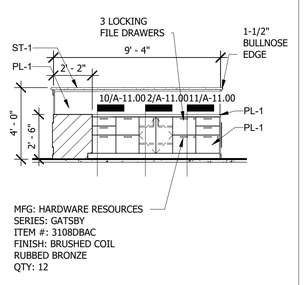
12 CHECK STAND SIDE ELEVATION
1/4" = 1'-0"



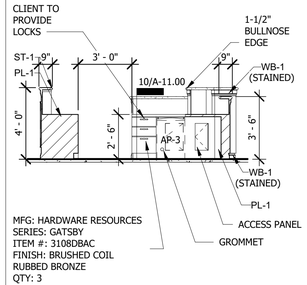
11 CHECK STAND EAST ELEVATION
1/4" = 1'-0"



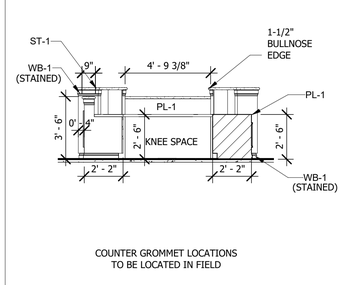
10 GREETER'S DESK WEST
1/4" = 1'-0"



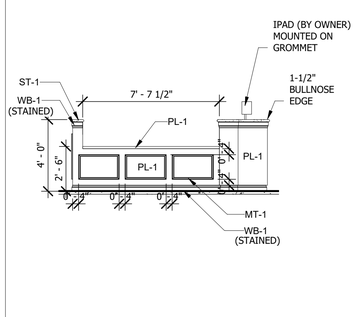
9 GREETER'S DESK NORTH
1/4" = 1'-0"



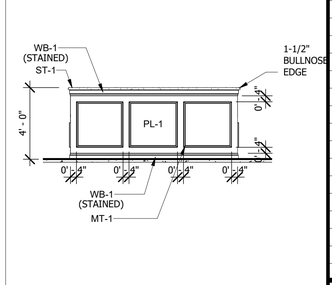
8 GREETER'S DESK EAST
1/4" = 1'-0"



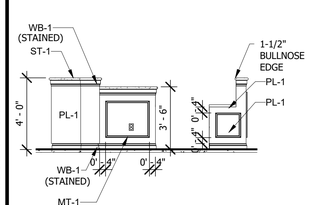
7 GREETER'S DESK SOUTH
1/4" = 1'-0"



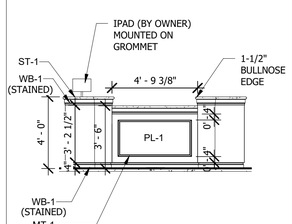
6 GREETER'S DESK WEST ELEVATION
1/4" = 1'-0"



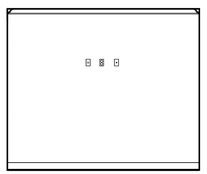
5 GREETER'S DESK NORTH ELEVATION
1/4" = 1'-0"



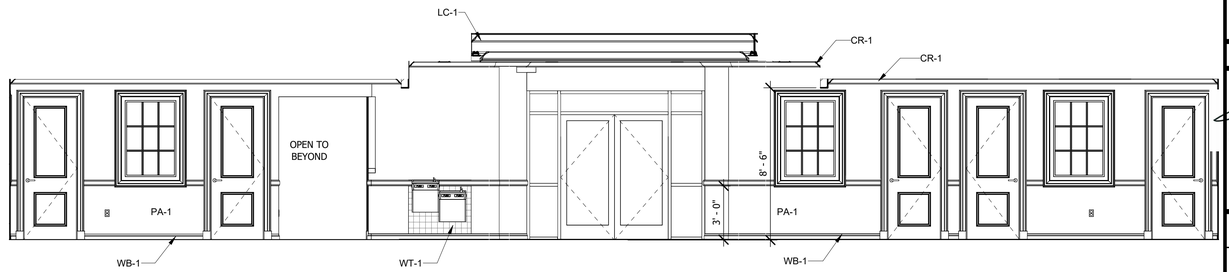
4 GREETER'S DESK EAST ELEVATION
1/4" = 1'-0"



3 GREETER'S DESK SOUTH ELEVATION
1/4" = 1'-0"



2 VESTIBULE 100 EAST
1/4" = 1'-0"



1 LOBBY 101 WEST
1/4" = 1'-0"

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Project Number : 8972

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ISSUED FOR BIDDING	4/13/2026
ISSUED FOR PERMIT	4/13/2026
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REVISIONS

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The information, ideas, designs, details, layouts, techniques, features, arrangements, plans, sequences, dimensions, allowances, tolerances, conceptions, specifications, intentions, technology or embodiments, as illustrated, arranged, displayed, noted, recorded, indicated, represented, disclosed, evidenced, detailed or otherwise reduced to tangible form hereon, either expressly, inherently or by implication, are the confidential and proprietary information of SLI Design, Inc., and shall not be used for any purpose other than the specific project or undertaking identified on the drawing title block or legend for which they are and have been prepared by SLI Design, Inc. Any other reproduction, disclosure or use of any portion of the confidential and proprietary information of SLI Design, Inc., shall be a breach of the obligation of confidence created by the acceptance of this drawing from SLI Design, Inc. for a specific project or Contract. Any copying, duplicating, reproducing, utilization, alteration, modification, revision or change to this drawing, is expressly prohibited unless done with the prior written consent or approval of SLI Design, Inc., and shall not be undertaken without receipt of such prior written approval. This drawing is loaned by SLI Design, Inc., for the limited purpose of complying with a specific Contract. The drawing remains the property of SLI Design, Inc., and shall be returned upon request or completion of the contract, unless specifically authorized by Contract, under which it was loaned.

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REGISTERED ARCHITECT
THOMAS B. HAYES
14286
STATE OF TEXAS
4.13.26

DRAWING TITLE
INTERIOR ELEVATIONS

DRAWN BY	VM
CHECKED BY	VM
APPROVED BY	BH

SHEET NO.
A-10.00

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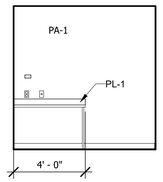
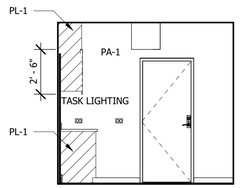
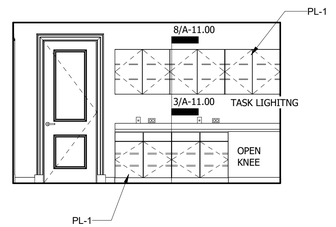


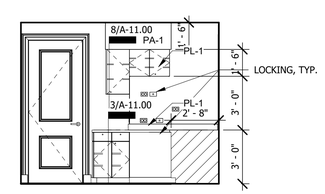
40 SAFETY DEPOSIT
1/4" = 1'-0"



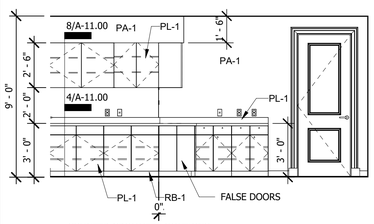
39 WORK ROOM & STORAGE 119 WEST
1/4" = 1'-0"



38 WORK ROOM & STORAGE 119 SOUTH
1/4" = 1'-0"

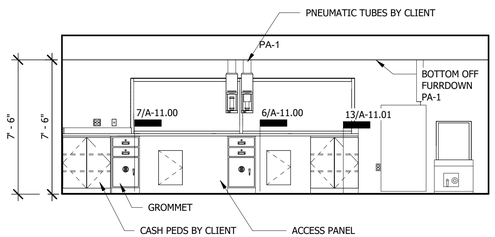


37 CASH ROOM 116 EAST
1/4" = 1'-0"



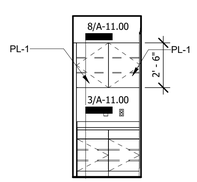
COUNTER GROMMET LOCATIONS
TO BE LOCATED IN FIELD

36 CASH ROOM 116
1/4" = 1'-0"

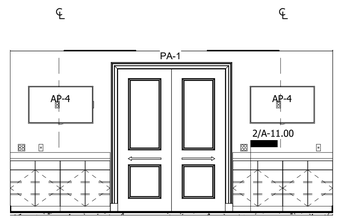


COUNTER GROMMET LOCATIONS
TO BE LOCATED IN FIELD

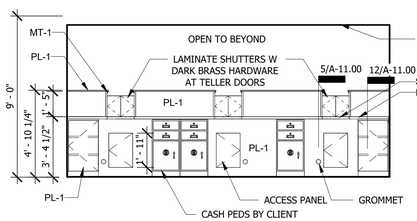
35 DRIVE THRU TELLERS 115 NORTH
1/4" = 1'-0"



34 DRIVE THRU TELLERS 115 SOUTH
1/4" = 1'-0"

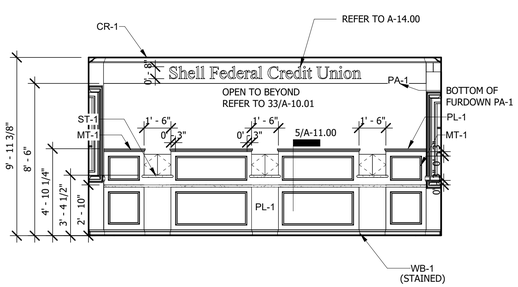


33 TELLERS 114 NORTH
1/4" = 1'-0"

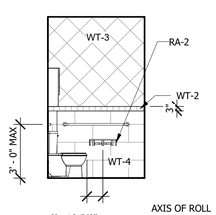


COUNTER GROMMET LOCATIONS
TO BE LOCATED IN FIELD

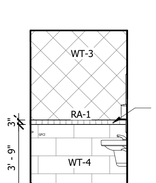
32 TELLERS 114 SOUTH
1/4" = 1'-0"



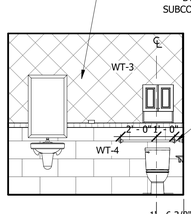
31 TELLER LINE FRONT ELEVATION
1/4" = 1'-0"



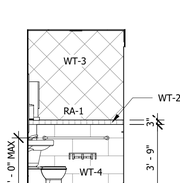
30 REST ROOM 112 A WEST
1/4" = 1'-0"



29 REST ROOM 112 A EAST
1/4" = 1'-0"

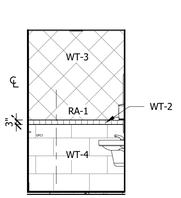


28 REST ROOM 112 A SOUTH
1/4" = 1'-0"

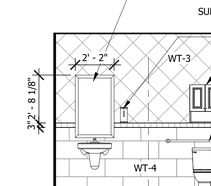


AXIS OF ROLL
15" MIN TO
23" MAX

27 REST ROOM 112 B WEST
1/4" = 1'-0"



26 REST ROOM 112 B EAST
1/4" = 1'-0"



25 REST ROOM 112 B SOUTH
1/4" = 1'-0"

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Katy, TX 77494

Project Number : 8972

ISSUED FOR	DATE
ISSUED FOR CLIENT APPROVAL	1/26/26
ISSUED FOR BIDDING	4/13/2026
ISSUED FOR PERMIT	4/13/2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE

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REGISTERED ARCHITECT
THOMAS B. HAYES
14288
STATE OF TEXAS
4.13.26

DRAWING TITLE
INTERIOR ELEVATIONS

DRAWN BY	VM	SHEET NO.
CHECKED BY	VM	A-10.01
APPROVED BY	BH	

C:\Users\sli\Documents\Shell_Federal_Credit_Union_Central_Fulshear_R2026-3_3jonghTWSAU.rvt

WALL MATERIAL LEGEND							
CODE	MFG	SERIES	COLOR	ITEM #	SIZE	NOTES	FLAME SPREAD & SMOKE DEVELOPMENT INDEX
CHR-1	MASON MILLS		PA-2	MC-47	3/4" X 4"	3'-0" AFF	CLASS A PER IBC 2015 SECTION 803.9
CR-1	BMC		PA-2	BMC49	9/16" X 3-5/8"		CLASS A PER IBC 2015 SECTION 803.9
PA-1	SHERWIN WILLIAMS	PRO MAR 200	MACADAMIA	SW-6142		EGGSHELL FINISH	CLASS A PER IBC 2015 SECTION 803.9
PA-2	SHERWIN WILLIAMS	PRO MAR 200	NACRE	SW-6154		EGGSHELL FINISH, WOOD TRIM COLOR	CLASS A PER IBC 2015 SECTION 803.9
PA-3	SHERWIN WILLIAMS	PRO MAR 200	ORIGAMI WHITE	SW-7636		EGGSHELL FINISH, CEILING PAINT COLOR	CLASS A PER IBC 2015 SECTION 803.9
WT-1	DALTILE	ESTA VILLA	TERRACE BEIGE	EV98	3" X 12"	8MM THICKNESS, CUT INTO 3"H PIECES	CLASS A PER IBC 2015 SECTION 803.9
WT-2	TILES 2000		NISDAO		12" X 12"	5/16" THICKNESS, 3/16" GROUT THICKNESS, DIAMOND LAYOUT	CLASS A PER IBC 2015 SECTION 803.9
WT-3	DALTILE	ESTA VILLA	TERRACE BEIGE	EV98	12" X 12"	5/16" THICKNESS, 3/16" GROUT THICKNESS, BRICK LAYOUT	CLASS A PER IBC 2015 SECTION 803.9
WT-4	DALTILE	PORTFOLIO	COTTO	PF10	12" X 24"		CLASS A PER IBC 2015 SECTION 803.9

PLASTIC LAMINATE MATERIAL LEGEND							
CODE	MFG	SERIES	COLOR	ITEM #	SIZE	NOTES	FLAME SPREAD & SMOKE DEVELOP INDEX
PL-1	FORMICA		ACAJOU MAHOGANY	7008-43		ARTISAN TEXTURE	CLASS A PER IBC 2015 SECTION 803.9
PL-2	WILSONART		DESERT ZEPHYR	4841-60		MATTE FINISH	CLASS A PER IBC 2015 SECTION 803.9

FLOORING MATERIAL LEGEND							
CODE	MFG	SERIES	COLOR	ITEM#	SIZE	NOTES	FLAME SPREAD & SMOKE DEVELOP INDEX
FS-1	TATE	CCN 1250 FLOOR SYSTEM	1/16" HPL-CHEYENNE GRAY			12" ABOVE CONCRETE SLAB, ON 1 PANEL LIFTER W/ WALL MOUNTED HOLDER	CLASS I PER IBC 2015 SECTION 804.4.1, .2
FT-1	DALTILE	ESTA VILLA	TERRACE BEIGE	EV98	18" X 18"	5/16" THICKNESS, 3/16" GROUT LINE THICKNESS	CLASS I PER IBC 2015 SECTION 804.4.1, .2
FT-1A	DALTILE	ESTA VILLA	TERRACE BEIGE	EV98	12" X 12"	5/16" THICKNESS, 3/16" GROUT LINE THICKNESS	CLASS I PER IBC 2015 SECTION 804.4.1, .2
FT-2	DALTILE	PORTFOLIO	CHOCOLATE	PF08	12" X 24"	5/16" THICKNESS, 3/16" GROUT LINE THICKNESS	CLASS I PER IBC 2015 SECTION 804.4.1, .2
FT-3	DALTILE	ESTA VILLA	TERRACE BEIGE	EV98	12" X 12"	5/16" THICKNESS, 3/16" GROUT LINE THICKNESS	CLASS I PER IBC 2015 SECTION 804.4.1, .2
GR-1	TEXRITE	CHROMAFLEX	CANVAS	251		TO USE W/ FT-1 & FT-2	CLASS I PER IBC 2015 SECTION 804.4.1, .2
GR-2	CUSTOM	PRISM SCG	KHAKI	186		TO USE W/ FT-3, WT-1, WT-2, WT-3, & WT-4	CLASS I PER IBC 2015 SECTION 804.4.1, .2
ST-1A	DALTILE		VERDE UBATUBA		12" X 12"	3/8" THICK, CUT INTO 8-1/2"X8-1/2" FOR ACCENT FLOOR TILES	CLASS I PER IBC 2015 SECTION 804.4.1, .2
CA-1						PATTERN LAYOUT	CLASS I PER IBC 2015 SECTION 804.4.1, .2

BASE MATERIAL LEGEND							
CODE	MFG	SERIES	COLOR	ITEM #	SIZE	NOTES	FLAME SPREAD & SMOKE DEVELOP INDEX
RB-1	ROPPE	PINNACLE	BLACK BROWN	193	4"	COIL; COVE	CLASS I PER IBC 2015 SECTION 804.4.1, .2
TB-1	DALTILE	ESTA VILLA	TERRACE BEIGE	EV98	3" X 12"	5/16" THICKNESS	CLASS I PER IBC 2015 SECTION 804.4.1, .2
WB-1	BMC		PA-2	B395	9/16" X 4-1/2"	STAIN TO MATCH PL-1 FOR MILLWORK APPLICATIONS	CLASS I PER IBC 2015 SECTION 804.4.1, .2

SOLID SURFACE MATERIAL LEGEND						
CODE	MFG	SERIES	COLOR	ITEM #	SIZE	NOTES	FLAME SPREAD & SMOKE DEVELOP INDEX
ST-1	ARIZONA TILE		VERDE UBATUBA			1-1/2" BULLNOSE EDGE	CLASS A PER IBC 2015 SECTION 803.9

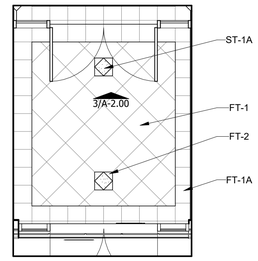
WINDOW COVERINGS							
CODE	MFG	SERIES	COLOR	ITEM #	SIZE	NOTES	FLAME SPREAD & SMOKE DEVELOP INDEX
MB-1	SWF	ALUMINUM HORIZONTAL BLINDS	VANILLA	100	1"	ALL EXTERIOR WINDOWS	CLASS A PER IBC 2015 SECTION 803.9
RS-1	INSOROLL	ECLIPSE BLACKOUT	SAND W/VANILLA FASCIA	064		DRIVE-THRU TELLER EXTERIOR WINDOW, REF: A-14.00	CLASS A PER IBC 2015 SECTION 803.9

RESTROOM ACCESSORIES				
NO.	MFG	DESCRIPTION	ITEM #	QTY
RA-1	American Specialties Inc.	Profile™ - Automatic Hand Dryer - Steel Cover - (100-240V) - 93 Satin Stainless Steel - Surface Mounted (0185-93)	0185-93	3
RA-2	American Specialties Inc.	TOILET TISSUE DISPENSER, TWIN HIDE-A-ROLL-SURFACE MOUNTED	0030	4
RA-3	AMERICAN SPECIALTIES INC.	36" LONG 1-1/4" DIA – CONCEALED MOUNT GRAB BARS	3700-914	11
RA-4	AMERICAN SPECIALTIES INC.	42" LONG 1-1/4" DIA – CONCELALED MOUNT GRAB BARS	3700-1067	7
RA-5	AMERICAN SPECIALTIES INC.	SURFACE MOUTED VERTICAL BABY CHANGING STATION	9015	1
RA-6	AMERICAN SPECIALTIES INC.	AUTOMATIC LIQUID SOAP AND GEL HAND SANITIZER DISPENSER – 35 OZ. – STAINLESS STEEL – SURFACE MOUNTED	0360	3

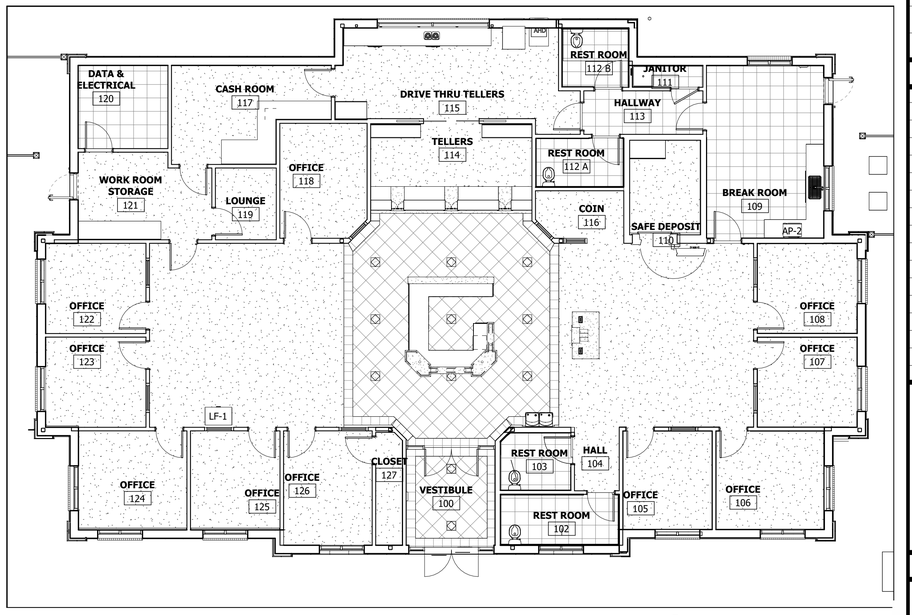
GENERAL NOTES	
NO.	DESCRIPTION
1	SUBMIT A 12"X12" SAMPLE OF WALL FINISHES TO SLI FOR APPROVAL
2	PROVIDE SHOP DRAWINGS FOR ALL PLASTIC LAMINATE CASE GOODS
3	ALL CARPET/VCT TRANSITIONS TO BE FLUSH
5	RUBBER TRANSITION STRIPS TO BE INSTALLED BETWEEN VCT TRANSITION TO GLUE DOWN CARPET
6	ALL GROUT LINES TO BE SEALED
7	ALL WALL COVERING MATERIAL SUPPLIED AND INSTALLED BY SLI
8	RENO TK SCHLUTER MATERIAL TRANSITION STRIP TO BE INSTALLED BETWEEN CERAMIC TILE AND GLUE-DOWN CARPET, & CERAMIC TILE AND VCT
9	ALL VCT TO BE SEALED WITH 3-5 COATS OF WAX, BUFF BETWEEN COATS
10	ANY REMAINING MATERIAL TO BE GIVEN TO CLIENT AS ATTIC STOCK

ROOM FINISH SCHEDULE

NO.	ROOM	FLOOR	BASE	WALL ►	WALL ▲	WALL ◄	WALL ▼	CEILING
100	VESTIBULE	FT-1, FT-1A, FT-2/ST-1A	TB-1	PA-1, CHR-1	PA-1	PA-1, CHR-1	PA-1	PA-3, CM-1
101	LOBBY	FT-1, FT-1A, FT-2/ST-1A, CA-1	WB-1	PA-1, CHR-1	PA-1, CHR-1	PA-1, CHR-1	PA-1, CHR-1	PA-3, CM-1
102	REST ROOM	FT-3		WT-2, WT-3, WT-4	WT-2, WT-3, WT-4	WT-2, WT-3, WT-4	WT-2, WT-3, WT-4	
103	REST ROOM	FT-3		WT-2, WT-3, WT-4	WT-2, WT-3, WT-4	WT-2, WT-3, WT-4	WT-2, WT-3, WT-4	
104	VESTIBULE	CA-1	WB-1	PA-1, CHR-1	PA-1, CHR-1	PA-1, CHR-1	PA-1, CHR-1	CM-1
104	HALL	CA-1	WB-1	PA-1	PA-1	PA-1	PA-1	CM-1
105	OFFICE	CA-1	WB-1	PA-1	PA-1	PA-1	PA-1	CM-1
106	OFFICE	CA-1	WB-1	PA-1	PA-1	PA-1	PA-1	CM-1
107	OFFICE	CA-1	WB-1	PA-1	PA-1	PA-1	PA-1	CM-1
108	OFFICE	CA-1	WB-1	PA-1	PA-1	PA-1	PA-1	CM-1
109	BREAK ROOM	FT-3	TB-1	PA-1	PA-1	PA-1	PA-1	
110	SAFE DEPOSIT	CA-1	RB-1	PA-1	PA-1	PA-1	PA-1	
111	JANITOR	VCT-1	RB-1	PA-1, WT-1, WT-3	PA-1, WT-1, WT-3	PA-1, WT-1, WT-3	PA-1, WT-1, WT-3	
112 A	REST ROOM	FT-3		WT-2, WT-3, WT-4	WT-2, WT-3, WT-4	WT-2, WT-3, WT-4	WT-2, WT-3, WT-4	
112 B	REST ROOM	FT-3		WT-2, WT-3, WT-4	WT-2, WT-3, WT-4	WT-2, WT-3, WT-4	WT-2, WT-3, WT-4	
113	HALLWAY	FT-3	TB-1	PA-1	PA-1	PA-1	PA-1	
113	HALLWAY							
114	TELLERS	CA-1	RB-1	PA-1	PA-1	PA-1	PA-1	
115	DRIVE THRU TELLERS	CA-1	RB-1	PA-1	PA-1	PA-1	PA-1	
116	COIN	CA-1	RB-1	PA-1	PA-1	PA-1	PA-1	CM-1
117	CASH ROOM	CA-1	RB-1	PA-1	PA-1	PA-1	PA-1	
118	OFFICE	CA-1	WB-1	PA-1	PA-1	PA-1	PA-1	CM-1
119	LOUNGE	CA-1	WB-1	PA-1	PA-1	PA-1	PA-1	
120	DATA & ELECTRICAL	VCT-1, FS-1	RB-1	PA-1	PA-1	PA-1	PA-1	
121	WORK ROOM STORAGE	CA-1	RB-1	PA-1	PA-1	PA-1	PA-1	
122	OFFICE	CA-1	WB-1	PA-1	PA-1	PA-1	PA-1	CM-1
123	OFFICE	CA-1	WB-1	PA-1	PA-1	PA-1	PA-1	CM-1
124	OFFICE	CA-1	WB-1	PA-1	PA-1	PA-1	PA-1	CM-1
125	OFFICE	CA-1	WB-1	PA-1	PA-1	PA-1	PA-1	CM-1
126	OFFICE	CA-1	WB-1	PA-1	PA-1	PA-1	PA-1	CM-1
127	CLOSET	CA-1	WB-1	PA-1	PA-1	PA-1	PA-1	
131	GENERATOR ENCLOSURE							
132	DUMPSTER ENCLOSURE							
132	DUMPSTER ENCLOSURE							



2 VESTIBULE 100 FINISH CALLOUT
1/4" = 1'-0"



1 LEVEL 1 - FINISH PLAN
1/8" = 1'-0"

APPLIANCE SCHEDULE							
CODE	TYPE	MFG	MODEL #	ITEM #	FINISH	ROOMS	QTY
AP-1	REFRIGERATOR	GE	GIE21GTHBB		BLACK		1
AP-2	MICROWAVE	GE	JES2051DNBB		BLACK	BREAK ROOM 109	1
AP-3	MINI FRIDGE	INSIGNIA	NS-CF26BK9		BLACK	LOBBY 101	1
AP-4	TV by Owner W/ Mount by SLI		TA502 & TS218SU				2

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REGISTERED ARCHITECT THOMAS B. PARKER 14288 STATE OF TEXAS
4.13.26

DRAWING TITLE
FINISHED FLOOR

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CHECKED BY	VM
APPROVED BY	BH
SHEET NO.	A-12.00

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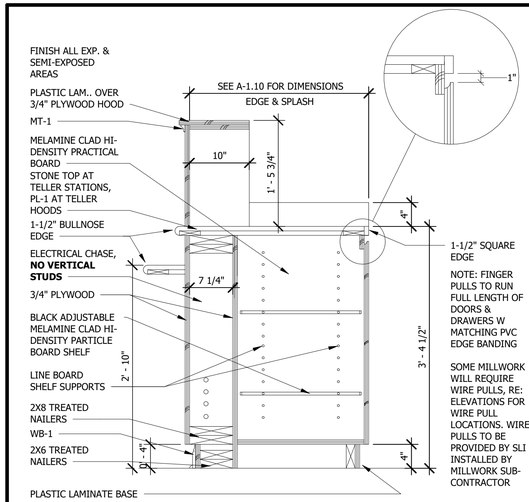
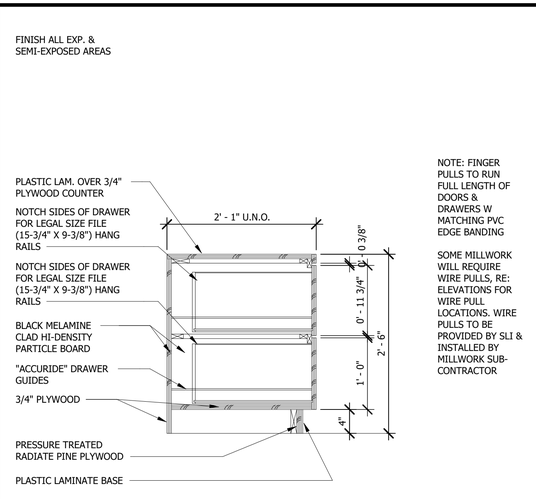
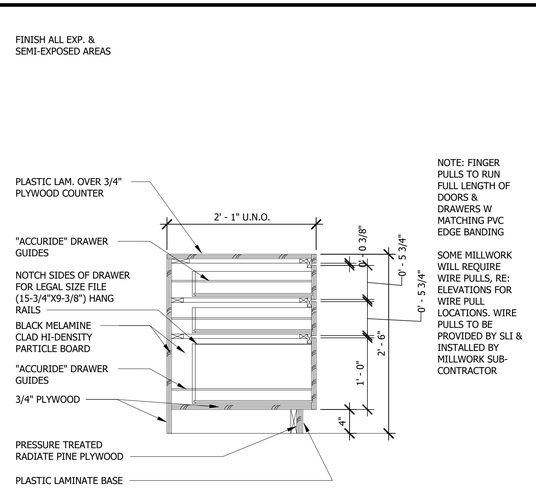


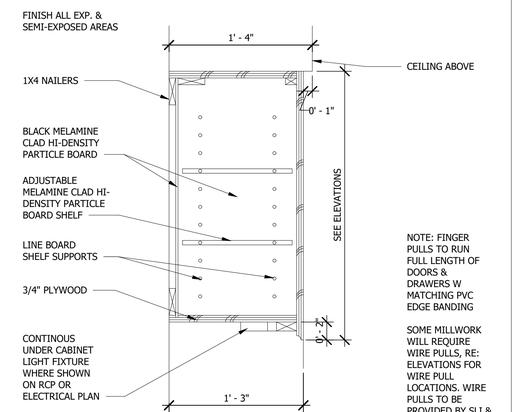
12 TELLER LINE CABINET
1" = 1'-0"



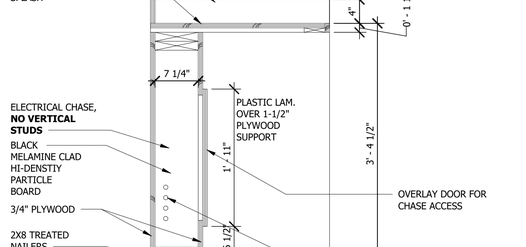
11 FILE FILE BASE CABINET
1" = 1'-0"



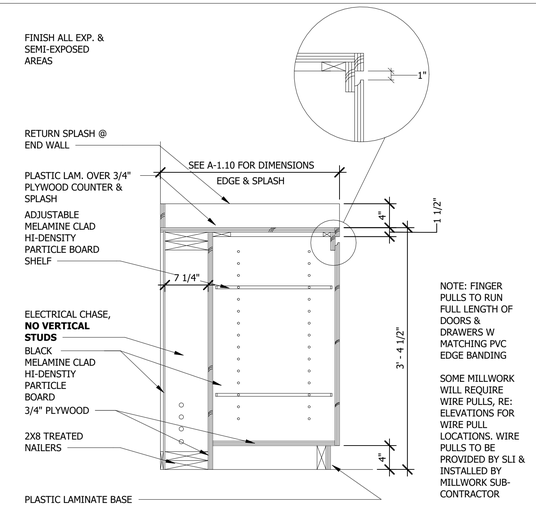
10 BOX BOX FILE BASE CABINET
1" = 1'-0"



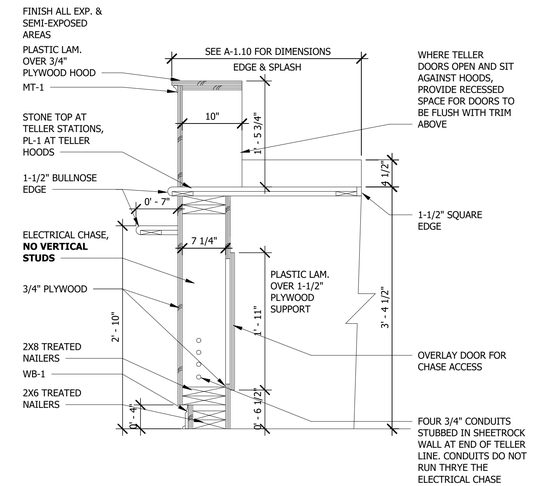
8 UPPER CABINET
1 1/2" = 1'-0"



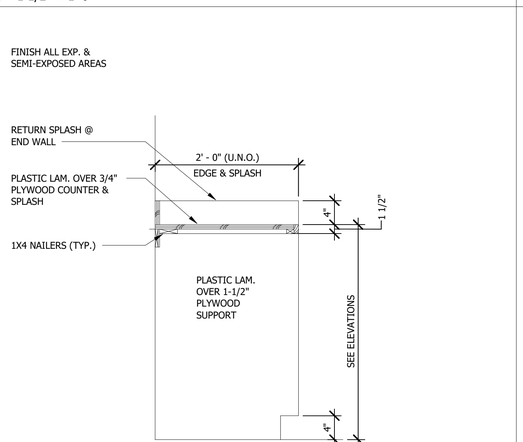
7 DRIVE THRU TELLER
1" = 1'-0"



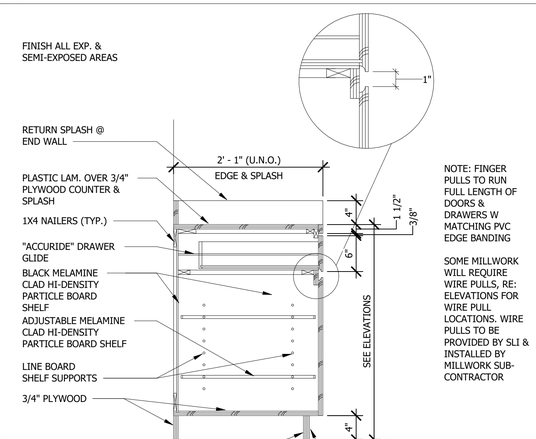
6 DRIVE THRU CABINET W CHASE
1" = 1'-0"



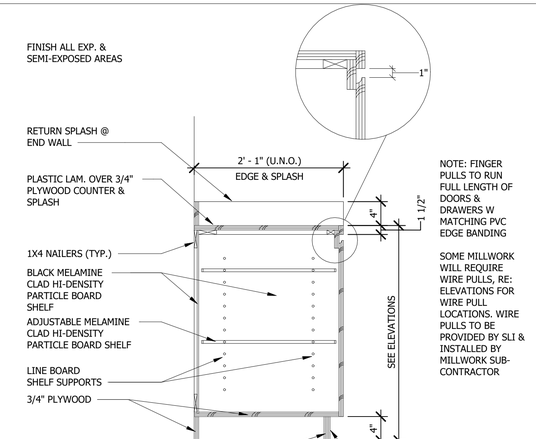
5 TELLER LINE SECTION
1" = 1'-0"



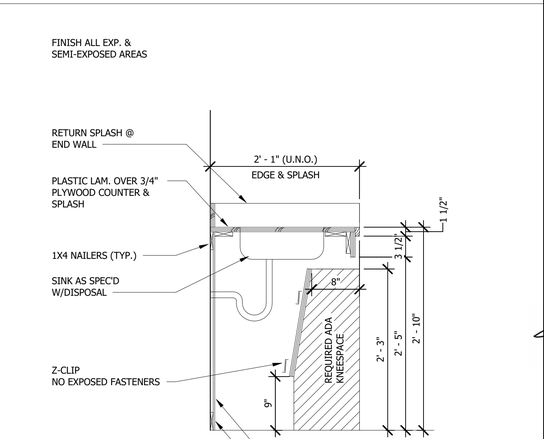
4 TYPICAL COUNTER
1" = 1'-0"



3 BASE CABINET W DRAWER
1" = 1'-0"



2 BASE CABINET
1" = 1'-0"



1 ADA SINK PANEL
1" = 1'-0"

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REGISTERED ARCHITECT THOMAS B. HARPER 14288 STATE OF TEXAS
4.13.26

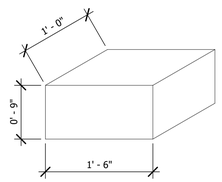
DRAWING TITLE
MILLWORK DETAILS

DRAWN BY	VM
CHECKED BY	VM
APPROVED BY	BH

SHEET NO. A-11.00

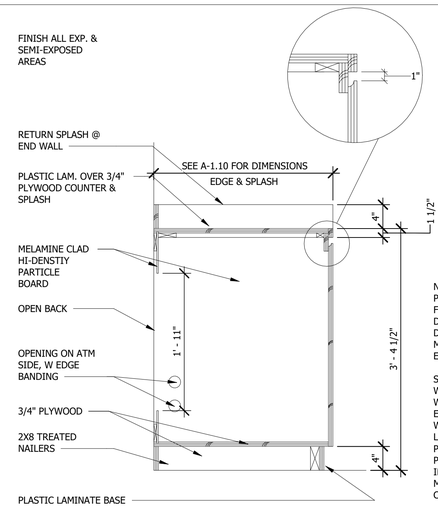
C:\Users\all\Documents\Shell_Federal_Credit_Union_Central_Fulshear_R2026-3_3gnxgPW9AU.rvt

TO BE COVERED W CA-1
QTY: 5



14 FOOT REST
1" = 1'-0"

FINISH ALL EXP. & SEMI-EXPOSED AREAS



NOTE: FINGER PULLS TO RUN FULL LENGTH OF DOORS & DRAWERS W MATCHING PVC EDGE BANDING

SOME MILLWORK WILL REQUIRE WIRE PULLS, RE: ELEVATIONS FOR WIRE PULL LOCATIONS. WIRE PULLS TO BE PROVIDED BY SLI & INSTALLED BY MILLWORK SUB-CONTRACTOR

13 DRIVE THRU CABINET W OPEN BACK
1" = 1'-0"

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Shell Federal CREDIT UNION

26620 FM 1093 Rd
Katy, TX 77494

Project Number : 8972

	DATE
ISSUED FOR CLIENT APPROVAL	1/26/26
ISSUED FOR BIDDING	4/13/2026
ISSUED FOR PERMIT	4/13/2026
ISSUED FOR CONSTRUCTION	

REVISIONS

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REGISTERED ARCHITECT
DONALD B. MILLER
14289
STATE OF TEXAS
4.13.26

DRAWING TITLE
MILLWORK DETAILS

DRAWN BY	VM	SHEET NO.
CHECKED BY	VM	A-11.01
APPROVED BY	BH	

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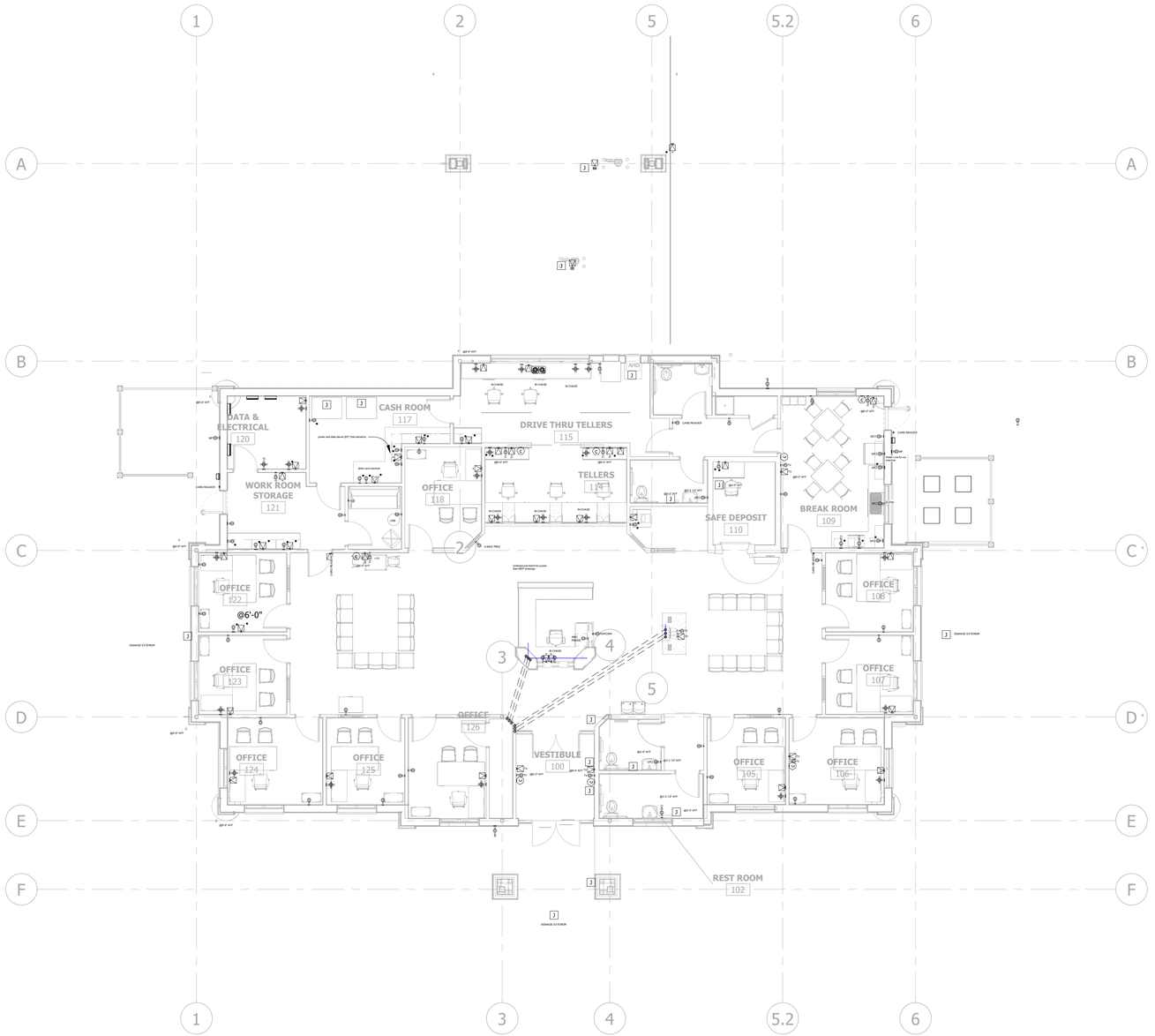
ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	DUPLEX WALL RECEPTACLE
GFC	DUPLEX WALL RECEPTACLE, GROUND FAULT INTERCEPT
	QUADPLEX WALL RECEPTACLE
	DUPLEX WALL PRECEPTACLE MOUNTED ABOVE COUNTER. 5" ABOVE COUNTER TOP OR 1" ABOVE BACKSPLASH U.N.O.
GFCI	DEDICATED DUPLEX WALL RECEPTACLE ABOVE COUNTER. 5"ABOVE COUNTEROP OR 1" ABOVE BACKSPLASH U.N.O.
	QUADPLEX WALL RECEPTACLE MOUNTED ABOVE COUNTER
	WALL DATA BOX WITH TWO (2) RJ-45 PORTS
WP	EXTERIOR WEATHERPROOF DUPLEX RECEPTACLE
J	JUNCTION BOX
C	DATA CABLE

GENERAL NOTES

1. ALL OUTLETS/RECEPTACLES TO BE MOUNTED VERTICALLY @ 15" A.F.F. U.N.O.
2. ALL OUTLETS/RECEPTACLES MOUNTED ABOVE COUNTER HEIGHT TO BE MOUNTED HORIZONTALLY
3. OUTLET/RECEPTACLE PLATE; COLOR: WHITE FOR ALL SWITCHES OR SHEETROCK AND BLACK ON WOODGRAIN
4. FOR ATTIC PLAN; RE: ELECTRICAL DRAWING
5. CAMERA LOCATIONS PER SECURITY CONTRACTOR



1 LEVEL 1 - ELECTRICAL PLAN
1/8" = 1'-0"

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REGISTERED ARCHITECT THOMAS B. BAKER 14288 STATE OF TEXAS
4.13.26

DRAWING TITLE
POWER PLAN-1ST FLOOR

DRAWN BY	JB
CHECKED BY	JB
APPROVED BY	TB

SHEET NO.
A-13.00

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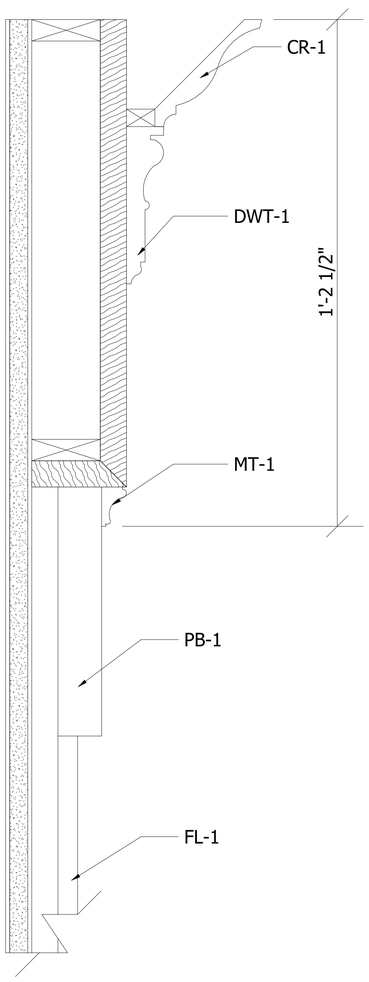
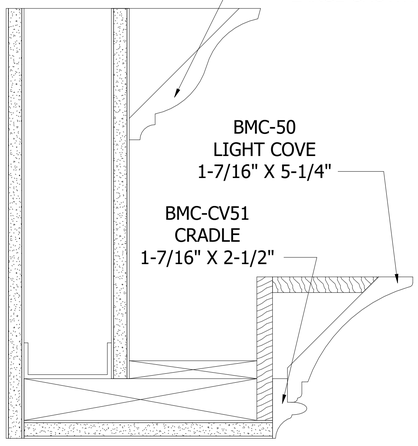
VC-1



FL-1

BMC
FC-5
9/16" X 5-1/4"
FLUTED TRIM

LC-1



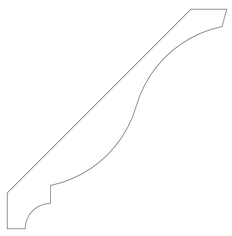
CHR-1

MASONS MILLS
MC-47
3/4" X 4"
CHAIR RAIL

MT-1

BMC
PM5
3/4" X 1-3/16"
DECORATIVE TRIM

CR-1

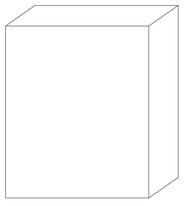


BMC
BMC49
9/16" X 3-5/8"
CROWN MOLDING

WB-1

BMC
B395
9/16" X 4-1/2"
WOOD BASE

PB-1

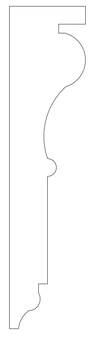


BMC
1-1/4"D X 5"W X 6"H
PLINTH BLOCK

DT-1

BMC
DM8
11/16" X 1-1/2"
DECORACTIVE DOOR MOLD

DWT-1



BMC
B11
1-1/16" X 4-1/2"
DOOR & WINDOW TRIM

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Katy, TX 77494

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ISSUED FOR PERMIT	4/13/2026
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REGISTERED ARCHITECT
TOMAS B. TAYLOR
14288
STATE OF TEXAS
4.13.26

DRAWING TITLE
INTERIOR TRIM/MOLDING

DRAWN BY	VM
CHECKED BY	VM
APPROVED BY	BH

SHEET NO.
A-11.02

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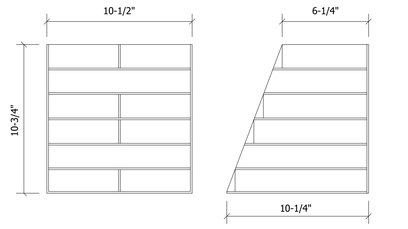
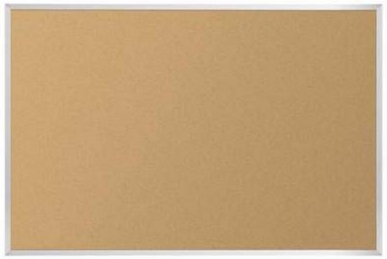


FRONT SIDE

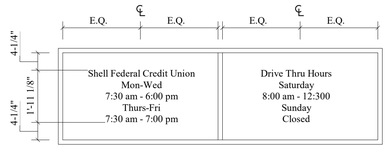
PLEXIGLASS SORTERS	
QUANTITY:	5
MFG:	Lone Star Millwork
FRAME:	
BACKGROUND:	
LETTER:	
BRAILLE:	
MOUNTING:	
SYMBOL:	
NOTES:	



BULLETIN BOARD	
QUANTITY:	1
MFG:	BEST-RITE
FRAME:	SILVER ALUMINUM
BACKGROUND:	NATURAL CORK
LETTER:	
BRAILLE:	
MOUNTING:	
SYMBOL:	
NOTES:	ITEM #: 24147814, MODEL #: 301AD

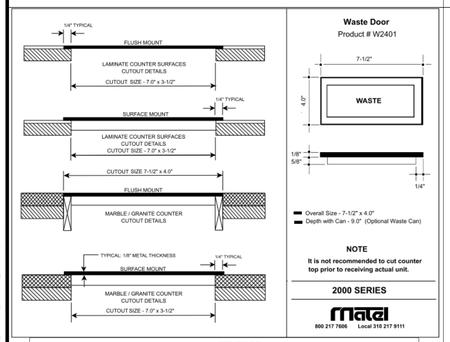
8" Shell Federal Credit Union

SFCU LOBBY SIGNAGE	
QUANTITY:	1
MFG:	INTERIOR SIGN MFG
FRAME:	
BACKGROUND:	
LETTER:	TIMES NEW ROMAN
BRAILLE:	
MOUNTING:	STUD MOUNTED W SILICON
SYMBOL:	
NOTES:	SILVER LAMINATE FACE PLEXIGLAS LETTERS, SIDES PAINTED SILVER



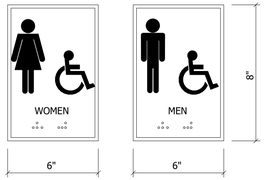
DRIVE THRU HOURS	
QUANTITY:	1
MFG:	SHADE VENDOR
FRAME:	
BACKGROUND:	ROLLER SHADE
LETTER:	SILK SCREEN 3" LETTER-PMS 280 BLUE, TIMES NEW ROMAN
BRAILLE:	
MOUNTING:	OUTSIDE FACE OF SHADE
SYMBOL:	
NOTES:	CLIENT TO CONRIM HOURS

PERPETUAL CALENDAR	
QUANTITY:	1
MFG:	MATEL # CL2324
FRAME:	
BACKGROUND:	SATIN ALUMINUM
LETTER:	
BRAILLE:	
MOUNTING:	STICKY BACK TO COUNTERTOP
SYMBOL:	
NOTES:	

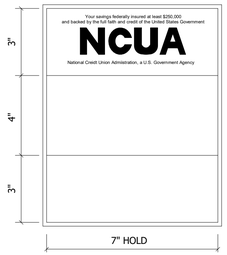


WASTE DROP	
QUANTITY:	2
MFG:	MATEL #W2401
FRAME:	
BACKGROUND:	SATIN ALUMINUM
LETTER:	
BRAILLE:	
MOUNTING:	SURFACE MOUNT
SYMBOL:	
NOTES:	

ELECTRICAL ROOM SIGNAGE	
QUANTITY:	1
MFG:	EAGLE GRAPHICS
FRAME:	SATIN SILVER
BACKGROUND:	SATIN SILVER
LETTER:	BLACK, TIMES NEW ROMAN
BRAILLE:	
MOUNTING:	DOUBLE STICKY TAPE TO WALL
SYMBOL:	
NOTES:	



RESTROOM SIGNAGE	
QUANTITY:	(2) ADA MEN, (2) ADA WOMEN
MFG:	EAGLE GRAPHICS
FRAME:	SATIN SILVER
BACKGROUND:	SATIN SILVER
LETTER:	BLACK, TIMES NEW ROMAN
BRAILLE:	YES
MOUNTING:	DOUBLE STICKY TAPE TO WALL
SYMBOL:	
NOTES:	



TELLER LINE FUNDS AVAILABILITY	
QUANTITY:	3
MFG:	EAGLE GRAPHICS
FRAME:	SATIN SILVER
BACKGROUND:	SATIN SILVER
LETTER:	BLACK, TIMES NEW ROMAN
BRAILLE:	
MOUNTING:	DOUBLE STICK TAPE TO TELLER LINE
SYMBOL:	
NOTES:	

JANE
2"
8" HOLD

WALL MOUNTED NAME PLATE HOLDER	
QUANTITY:	10
MFG:	EAGLE GRAPHICS
FRAME:	SATIN SILVER
BACKGROUND:	SATIN SILVER
LETTER:	BLACK, ARIAL
BRAILLE:	
MOUNTING:	DOUBLE STICK TAPE TO WALL
SYMBOL:	
NOTES:	PLAQUE TO BE MAGNETIC, CLIENT TO PROVIDE NAME PLATE AT A LATER DATE

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Katy, TX 77494

Project Number : 8972

	DATE
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ISSUED FOR CONSTRUCTION	

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REGISTERED ARCHITECT THOMAS S. MAYER 14288 STATE OF TEXAS
4.13.26

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INTERIOR SIGNAGE

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CHECKED BY	VM	A-14.00
APPROVED BY	BH	

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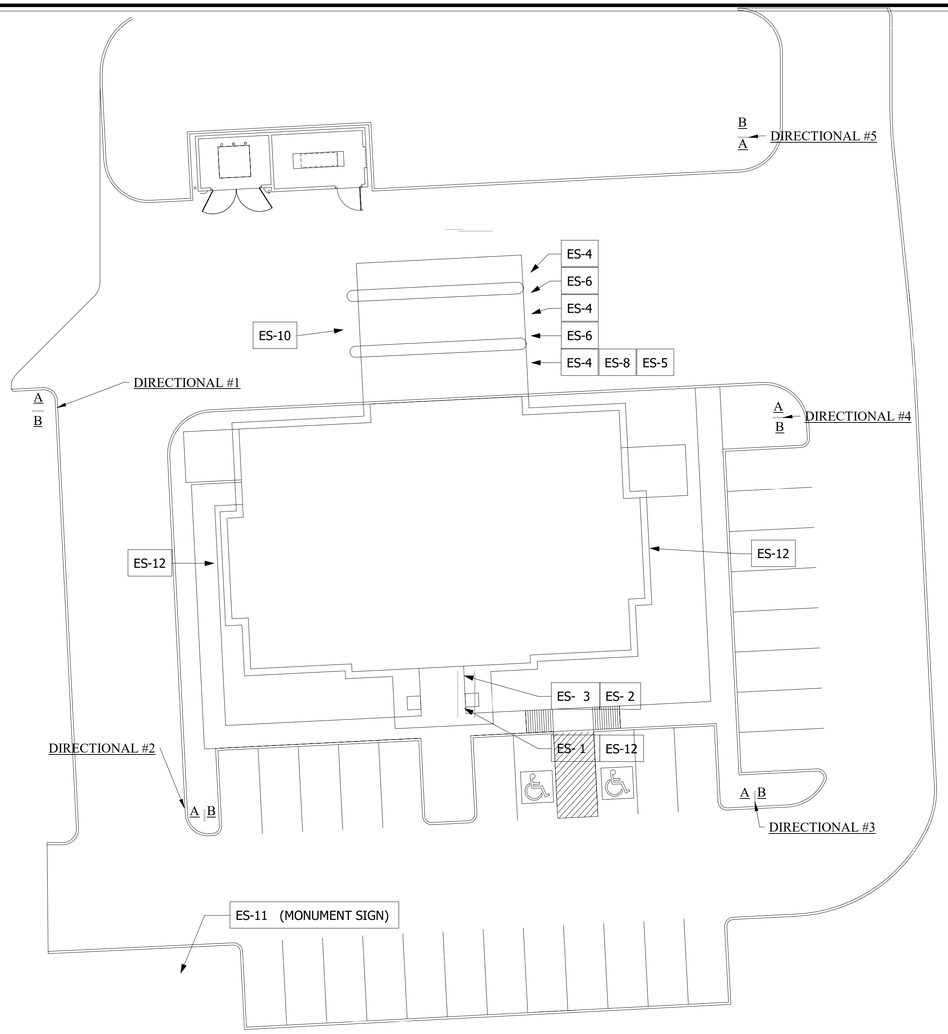
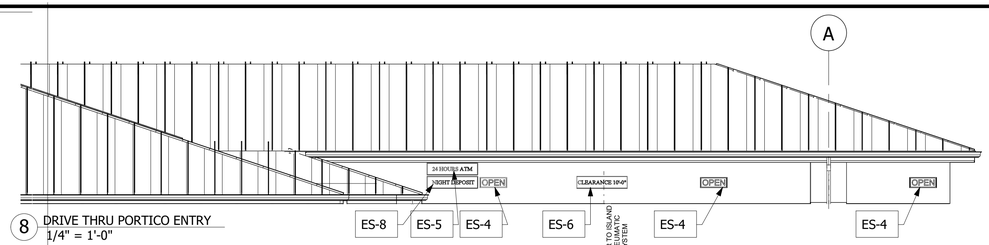
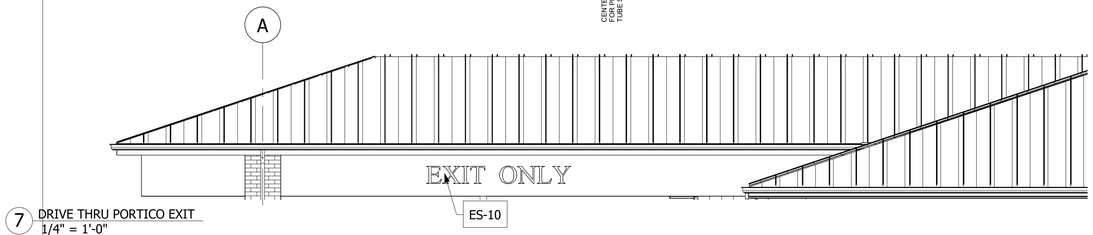


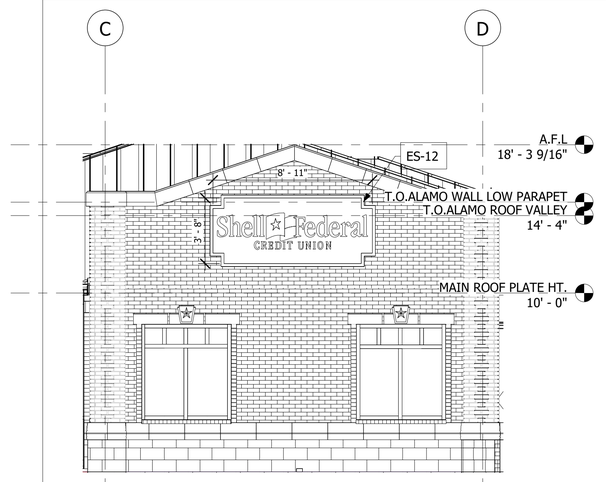
5 DIRECTIONAL SIGNAGE SITE PLAN
1" = 20'-0"



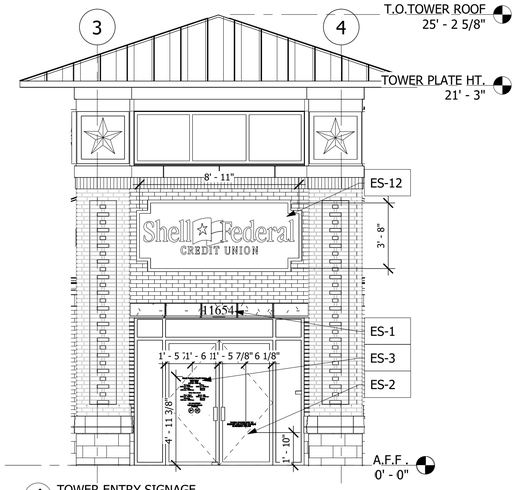
8 DRIVE THRU PORTICO ENTRY
1/4" = 1'-0"



7 DRIVE THRU PORTICO EXIT
1/4" = 1'-0"



2 ALAMO WALL SIGNAGE @ GRID C-D
1/4" = 1'-0"

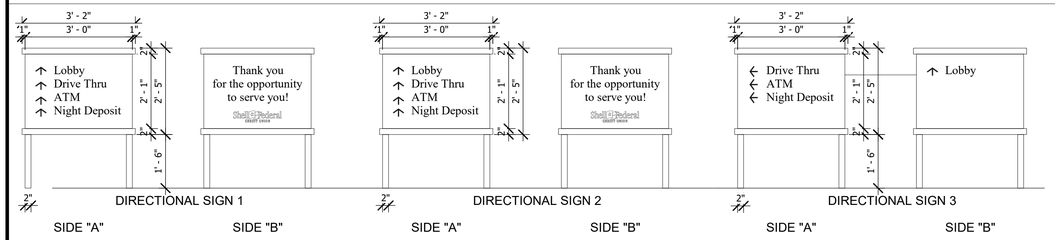


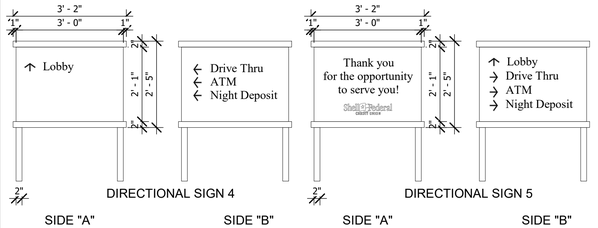
4 TOWER ENTRY SIGNAGE
1/4" = 1'-0"

ALAMO WALL SIGNAGE	
SYMBOL:	ES-12
QTY:	2
LIGHTING:	GESES65-3 6500K WHITE LEDS
LETTER:	MATCH LOGO
FONT/SIZE:	MATCH LOGO
FINISH:	MATCH LOGO
MOUNTING:	MOUNT TO STUCCO
MANUFACTURER:	BY SIGNAGE COMPANY
NOTES:	FRONT-LIT CHANNEL LETTERS FACE: 3/16" WHITE ACRYLIC, FINISH V1, V2; TRIMCAP: 1" JEWELITE, PREFINISHED WHITE; RETURNS: 0.3" X .040" ALUMINUM PREFIN. WHITE; BACKS: 0.63" ALUMINUM, PREFINISHED WHITE; POWER SUPPLY: 12V , 60W - HOUSED IN POWERBOX CHANNEL LETTERS TO BE ATTACHED TO BUILDING WITH MINIMUM 3/8" X 5" FASTENERS.

TOWER ENTRY SIGNAGE	
SYMBOL:	ES-12
QTY:	1
LIGHTING:	GESES65-3 6500K WHITE LEDS
LETTER:	MATCH LOGO
FONT/SIZE:	MATCH LOGO
FINISH:	MATCH LOGO
MOUNTING:	MOUNT TO STUCCO
MANUFACTURER:	BY SIGNAGE COMPANY
NOTES:	FRONT-LIT CHANNEL LETTERS FACE: 3/16" WHITE ACRYLIC, FINISH V1, V2; TRIMCAP: 1" JEWELITE, PREFINISHED WHITE; RETURNS: 0.3" X .040" ALUMINUM PREFIN. WHITE; BACKS: 0.63" ALUMINUM, PREFINISHED WHITE; POWER SUPPLY: 12V , 60W - HOUSED IN POWERBOX CHANNEL LETTERS TO BE ATTACHED TO BUILDING WITH MINIMUM 3/8" X 5" FASTENERS.

1 DIRECTIONAL SIGN SITE PLAN
3/4" = 1'-0"





DIRECTIONAL SIGNAGE	
SYMBOL:	SEE SITE PLAN
QTY:	3
LIGHTING:	NON-ILLUMINATED
LETTER:	3" TIMES ROMAN LETTERS AND ARROWS PMS 280 BLUE; LOGO FLAG PMS 280 BLUE AND PMS 207 RED (LETTERS TO BE LOWER CASE WITH EXCEPTION OF FIRST LETTER OF EVERY WORD)
FONT/SIZE:	SEE ABOVE
FINISH:	2" X 2" ALUMINUM VERTICAL POSTS AND PANELS (WHITE); WITH PMS 280 BLUE) CAPS
MOUNTING:	IN GROUND MOUNTING BY SIGANGE MFG
MANUFACTURER:	
NOTES:	

SLI DESIGN, INC.
ARCHITECTURE PLANNING INTERIOR DESIGN
15810 PARK TEN PLACE, SUITE 300
HOUSTON, TEXAS 77084
713-465-4650
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Shell Federal CREDIT UNION
26620 FM 1093 Rd
Katy, TX 77494

Project Number : 8972

ISSUED	DATE
ISSUED FOR CLIENT APPROVAL	1/26/26
ISSUED FOR BIDDING	4/13/2026
ISSUED FOR PERMIT	4/13/2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE

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REGISTERED ARCHITECT THOMAS B. TURNER 14288 STATE OF TEXAS
4.13.26

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DRAWN BY Author
CHECKED BY Checker
APPROVED BY Approver
SHEET NO. A-14.10

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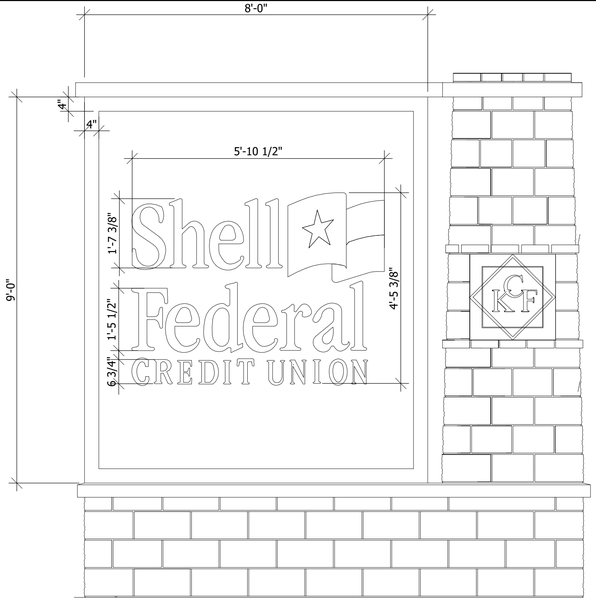

MONUMENT SIGNAGE	
SYMBOLS:	ES-13
QTY:	1
LIGHTING:	ILLUMINATED
LETTER:	BLUE (OMS 280) LETTERING AND RETURNS
FONT/SIZE:	DUTCH BT / DIMENSIONS ABOVE
FINISH:	
MOUNTING:	ILLUMINATED CAN WITH WHITE ACRYLIC PANEL AND VINYL LETTERING
MANUFACTURER:	BY SIGNAGE COMPANY
NOTES:	

8' - 1"

EXIT ONLY

11 5/8"

DRIVE THRU SIGNAGE	
SYMBOLS:	ES-11
QTY:	1
LIGHTING:	NON ILLUMINATED
LETTER:	BLUE (OMS 280) LETTERING AND RETURNS
FONT/SIZE:	DUTCH BT / DIMENSIONS ABOVE
FINISH:	
MOUNTING:	INDIVIDUAL PIN MOUNTED LETTERS ADHERED TO STUCCO
MANUFACTURER:	BY SIGNAGE COMPANY
NOTES:	

2' - 10"

NIGHT DEPOSIT

8"

DRIVE THRU SIGNAGE	
SYMBOLS:	ES-7
QTY:	1
LIGHTING:	INTERNALLY ILLUMINATED
LETTER:	
FONT/SIZE:	
FINISH:	FLAT DIE-CUT VINYL LETTERS/NUMBERS-PMS280 BLUE WITH WHITE ALUMINUM RETURNS WIT PMS 2810 BLUE TRIM
MOUNTING:	ADHERED TO STUCCO
MANUFACTURER:	BY SIGNAGE COMPANY
NOTES:	

2' - 10"

CLEARANCE 10'-0"

8"

DRIVE THRU SIGNAGE	
SYMBOLS:	ES-6
QTY:	2
LIGHTING:	NON ILLUMINATED
LETTER:	
FONT/SIZE:	
FINISH:	FLAT DIE-CUT VINYL LETTERS/NUMBERS-PMS280 BLUE WITH WHITE ALUMINUM RETURNS WIT PMS 2810 BLUE TRIM
MOUNTING:	ADHERED TO STUCCO
MANUFACTURER:	BY SIGNAGE COMPANY
NOTES:	

1' - 8"

Shell Federal Credit Union

Lobby Hours

Mon - Wed

9:00 am - 5:00 pm

Thursday

9:00 am - 5:30 pm

Friday

9:00 am - 5:00 pm

Saturday

9:00 am - 12:30 pm

Sunday

Closed

Drive Thru Hours

Mon - Wed

7:30 am - 6:00 pm

Friday

7:30 am - 7:00 pm

Saturday

8:00 am - 12:30 pm

Sunday

Closed

NO SOLICITING

Only Service Animals

Permitted

2' - 2"

BANK HOURS (FRONT DOORS)	
SYMBOLS:	ES-3
QTY:	1
LIGHTING:	NON-ILLUMINATED
LETTER:	WHITE VINYL
FONT/SIZE:	ARIAL LETTERS/SIZE AS SHOWN
FINISH:	
MOUNTING:	ADHERE TO STOREFRONT DOOR
MANUFACTURER:	
NOTES:	CLIENT TO CONFIRM HOURS

2' - 10"

24 HOUR ATM

8"

DRIVE THRU SIGNAGE	
SYMBOLS:	ES-5
QTY:	1
LIGHTING:	INTERNALLY ILLUMINATED
LETTER:	
FONT/SIZE:	
FINISH:	FLAT DIE-CUT VINYL LETTERS/NUMBERS-PMS280 BLUE WITH WHITE ALUMINUM RETURNS WIT PMS 2810 BLUE TRIM
MOUNTING:	ADHERED TO STUCCO
MANUFACTURER:	BY SIGNAGE COMPANY
NOTES:	

1' - 7 1/8"

THESE DOORS ARE TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED

4 1/8"

BANK HOURS (FRONT DOORS)	
SYMBOLS:	ES-2
QTY:	1
LIGHTING:	NON-ILLUMINATED
LETTER:	1" min. WHITE VINYL
FONT/SIZE:	ARIAL LETTERS/SIZE AS SHOWN
FINISH:	
MOUNTING:	ADHERE TO STOREFRONT DOOR
MANUFACTURER:	
NOTES:	1" MIN. HEIGHT ON LETTERS

1' - 6"

OPEN

7"

INSTALL ONLY/PURCHASED BY BANK SUPPLIER

DRIVE THRU SIGNAGE	
SYMBOLS:	ES-4
QTY:	3
LIGHTING:	
LETTER:	
FONT/SIZE:	
FINISH:	
MOUNTING:	MOUNT TO STUCCO/POWER REQUIRED
MANUFACTURER:	
NOTES:	SIGNAGE BY BANK EQUIPMENT

2' - 3 3/4"

11654

8"

BANK HOURS (FRONT DOORS)	
SYMBOLS:	ES-1
QTY:	1
LIGHTING:	NON-ILLUMINATED
LETTER:	ARIAL
FONT/SIZE:	0'-6"
FINISH:	BLACK
MOUNTING:	PAINTED INTO STUCCO
MANUFACTURER:	BY VENDOR
NOTES:	AT THE FRONT OF TOWER

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ARCHITECTURE PLANNING INTERIOR DESIGN

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Katy, TX 77494

Project Number : 8972

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ISSUED FOR CLIENT APPROVAL	1/26/26
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REVISIONS

MARK	DESCRIPTION	DATE

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REGISTERED ARCHITECT THOMAS S. TANNER 14288 STATE OF TEXAS

4.13.26

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EXTERIOR SIGNAGE

DRAWN BY Author

CHECKED BY Checker

APPROVED BY Approver

SHEET NO.

A-14.20

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GENERAL NOTES

A. 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.

B. MEANS AND METHODS: THE STRUCTURAL DRAWINGS DEPICT THE STRUCTURE IN ITS FINAL CONSTRUCTED CONFIGURATION UNLESS SO STATED OR NOTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DESIGN AND PROVIDE ALL TEMPORARY SUPPORTS REQUIRED FOR THE EXECUTION OF THE CONTRACT INCLUDING BUT NOT LIMITED TO: GUYS, BRACES, SHORES, RE-SHORES, FALSEWORK, ANY TEMPORARY SUPPORTS OR TEMPORARY ANCHORS. NEITHER CONSTRUCTION MEANS AND METHODS NOR CONSTRUCTION SAFETY ARE PART OF THE STRUCTURAL ENGINEER'S EXPERTISE OR SCOPE OF WORK. THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS ARE FULLY RESPONSIBLE FOR THE MEANS AND METHODS USED TO CONSTRUCT THE STRUCTURE AND FOR FULL COMPLIANCE WITH ALL JOB SAFETY RELATED REGULATIONS AND CONDITIONS AT THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS RELATING TO THE SPECIFIC STRUCTURAL ERECTION ITEMS ADDRESSED IN THE LATEST OSHA REGULATIONS.

C. LIMITED SITE VISITS IF ANY BY THE STRUCTURAL ENGINEER OF RECORD (SER) ARE SOLELY TO OBSERVE COMPLETED PARTS OF THE STRUCTURE. THE STRUCTURAL ENGINEER OF RECORD (SER) IS NEITHER QUALIFIED TO OBSERVE NOR COMMENT ON CONSTRUCTION MEANS AND METHODS AND JOB SITE SAFETY.

D. PRINCIPAL OPENINGS ARE SHOWN ON THE DRAWINGS. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENINGS, SLEEVES, CURBS, INSERTS, DEPRESSIONS, ETC., NOT SHOWN.

E. TYPICAL DETAILS: 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. ALL DETAILS ARE TYPICAL UNLESS NOTED OTHERWISE. DETAILS SHALL APPLY TO ALL SIMILAR AND LIKE CONDITIONS.

F. 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 AT NO COST TO THE PROJECT.

G. 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

H. COORDINATION AND 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 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.

I. SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS NOT SHOWN. 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.

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

K. 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.

L. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO PROVIDE 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.

M. 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. THE MEETING AGENDA SHALL INCLUDE THE FOLLOWING ITEMS: REVIEW OF WORK SCOPE, PROJECT SCHEDULE FOR THE ELEMENTS BEING DISCUSSED, CONTACT INFORMATION OF RESPONSIBLE PARTIES, INSPECTION POINTS FOR BOTH SER AND SPECIAL INSPECTOR, REVIEW OF MATERIALS AND ANY SPECIAL DESIGN ISSUES, CLARIFICATIONS, TESTING AND ACCEPTANCE, AND ANY OTHER TOPIC DEEMED APPROPRIATE BY THE CONTRACTOR, ARCHITECT OR STRUCTURAL ENGINEER.

N. COLD-FORMED WALL STUDS AND CONNECTIONS SHALL BE DESIGNED AND SEALED BY A LICENSED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. THE CALCULATIONS AND DETAILED DRAWINGS SHALL BE SUBMITTED FOR APPROVAL SHOWING ALL CALCULATIONS, INCLUDING DESIGN LOADS, MEMBER SIZES AND CONNECTIONS.

O. SHOP DRAWINGS SHALL BE NEW DRAWINGS PRODUCED BY THE CONTRACTOR. ILLEGIBLE REPRODUCTIONS OF THE DESIGN DRAWINGS WILL BE REJECTED. THE USE OF REPRODUCTIONS OR ELECTRONIC FILES OF THE STRUCTURAL DRAWINGS FOR THE PREPARATION OF SHOP DRAWINGS IS NOT ACCEPTABLE WITHOUT PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER OF RECORD. IF SUCH AUTHORIZATION IS OBTAINED, DO NOT SUBMIT SHOP DRAWINGS WITH THE CONTRACT DOCUMENT TITLE BLOCK AND/OR THE SEAL OF THE REGISTERED ENGINEER OF RECORD AFFIXED. ALTERATION OF A SEALED DOCUMENTS WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE OF THE ENGINEERING PRACTICE ACT. THE USE OF REPRODUCTIONS OR ELECTRONIC FILES OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS OR OMISSIONS THAT MAY OCCUR HEREON. DRAWINGS REQUIRING A SPECIALTY STRUCTURAL ENGINEER (SSR) SHALL HAVE CALCULATIONS AND DRAWINGS SEALED BY A LICENSED ENGINEER IN THE STATE OF THE PROJECT.

P. SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT, AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. IT IS NOT THE INTENT THAT THE STRUCTURAL DRAWINGS BE VIEWED AS DETAILED SHOP OR ERECTION DRAWINGS. VARIOUS DIMENSIONS REQUIRED FOR PROPER FIT-UP OF THE COMPONENTS OF THE STRUCTURE MUST BE DETERMINED FROM THE INFORMATION THAT IS PROVIDED ELSEWHERE IN THE CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S AND THEIR DETAILER'S OR SUBCONTRACTOR'S RESPONSIBILITY TO ESTABLISH AND TO CALCULATE AND VERIFY THESE DIMENSIONS AS REQUIRED TO ACHIEVE PROPER FIT-UP OF MATERIALS AND TO ACHIEVE COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.

Q. OMISSION FROM THE SHOP DRAWINGS OF ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF COMPLYING WITH THE OMITTED REQUIREMENTS, EVEN IF THE SHOP DRAWINGS HAVE BEEN REVIEWED, APPROVED AND RETURNED.

R. SHOP DRAWING REVIEW PROCESS - ALL SHOP DRAWINGS WILL BE REVIEWED AND RETURNED IN THE ORDER RECEIVED UNLESS OTHER SPECIFIC INSTRUCTIONS ARE RECEIVED. FOR PROJECTS WITH MULTIPLE WORK AREAS, THE SHOP DRAWINGS MUST BE DIVIDE INTO THE SAME OR SIMILAR AREAS WITH EACH AREA SUBMITTED INDIVIDUALLY UNDER A SEPARATE TRANSMITTAL. IF THE SHOP DRAWINGS ARE NOT DIVIDED INTO AREAS PER THE CONTRACT DOCUMENTS, THAT SUBMITTAL WILL BE REJECTED. EACH SUBMITTAL WILL BE REVIEWED INDIVIDUALLY AND REQUIRE AN INDIVIDUAL TIME FRAME OF TEN (10) WORKING DAYS PER SUBMITTAL. IF MULTIPLE SUBMITTALS ARE RECEIVED WITHIN THE REVIEW TIME FRAME OF A PRIOR SUBMITTAL, THEY WILL BE REVIEWED CONSECUTIVELY EACH WITH ITS OWN INDIVIDUAL REVIEW TIME FRAME THAT BEGINS ONCE THE PRIOR SUBMITTAL IS RETURNED. THIS GIVES EACH SUBMITTAL A TEN (10) WORKING DAY REVIEW WINDOW.

S. RETURNED SHOP DRAWINGS STAMPED "NOTE MARKINGS" OR "APPROVED AS NOTED" ARE ASSUMED TO BE APPROVED ONCE ALL THE COMMENTS HAVE BEEN INCORPORATED. THE SER WILL ONLY REVIEW SUBMITTALS ONE ADDITIONAL TIME AND ONLY IF THEY ARE MARKED "REVISE AND RESUBMIT" OR "REJECTED". ANY FURTHER REVIEWS OF THE SAME OR SIMILAR SUBMITTALS WILL BE AT THE GENERAL CONTRACTORS EXPENSE WITH PAYMENT FOR SERVICES RENDERED PRIOR TO THE RETURN OF THE APPROVAL DRAWINGS.

T. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELAYS CAUSED BY REJECTION OF INADEQUATE, INCOMPLETE OR INCORRECT SHOP DRAWINGS.

U. SHOP DRAWINGS THAT ARE NOT SPECIFICALLY REQUIRED BY THE GENERAL NOTES OR SPECIFICATIONS WILL NOT BE REVIEWED OR RETURNED.

V. MINIMUM SHOP DRAWING SUBMITTAL REQUIREMENTS INCLUDE:

- CONCRETE MIX DESIGNS FOR EACH CLASS OF CONCRETE WITH TEST DATA
- CONCRETE ACCESSORIES (VAPOR RETARDER, REINFORCING SUPPORT CHAIRS, VOID FORMS, ETC.)
- CONCRETE REINFORCING SHOP DRAWINGS
- STRUCTURAL STEEL SHOP DRAWINGS
- CMU GROUT, CMU UNITS MORTAR AND ACCESSORIES SHOP DRAWINGS
- WOOD TRUSS SHOP DRAWINGS AND CALCULATIONS (SEALED BY LICENSED ENGINEER)
- GLAZED ALUMINUM FRAMING SYSTEMS SHOP DRAWINGS AND CALCULATIONS (SEALED BY LICENSED ENGINEER)
- PRE-FABRICATED CANOPY FRAMING SYSTEMS SHOP DRAWINGS AND CALCULATIONS (SEALED BY A LICENSED ENGINEER)

W. CRANES, CONCRETE TRUCKS AND ALL OTHER HEAVILY LOADED VEHICLES ARE NOT TO BE DRIVEN ACROSS GRADE BEAMS OR BUILDING SLABS.

X. ALL SHORING REQUIRED TO TEMPORARILY SUPPORT CONSTRUCTION LOADS DURING THE CONSTRUCTION OF THE PROJECT SHALL BE DESIGNED AND SEALED BY A LICENSED ENGINEER. ALL EXISTING STRUCTURES AND NEW STRUCTURES SUPPORTING SHORING LOADS SHALL ALSO BE ANALYZED TO DETERMINE IF THEY ARE CAPABLE OF SUPPORTING THE REQUIRED LOADS AND SHALL BE REVIEWED BY A LICENSED ENGINEER. SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL.

Y. ERECTION OF STRUCTURAL STEEL MAY NOT BEGIN UNTIL CONCRETE FOUNDATION HAS CURED FOR A MINIMUM OF THREE DAYS. STRUCTURAL STEEL OR OTHER HEAVY LOADS SHALL NOT BE STOCKPILED ON ANY SLAB UNTIL IT HAS CURED FOR A MINIMUM OF THREE DAYS.

Z. NON-CONFORMING WORK, REMEDIAL REPAIRS, AND FIELD MODIFICATIONS — ALL NON CONFORMING WORK AND ASSOCIATED REMEDIAL REPAIRS OR FIELD MODIFICATIONS, INCLUDING ENGINEERING, QUALITY REVIEW AND DRAFTING OF ANY NEW DETAILS OR DOCUMENT REVISIONS, SUBMITTED AS A REQUEST FOR INFORMATION (RFI) AND DEEMED TO REQUIRE ADDITIONAL ENGINEERING OR DRAFTING SERVICES MAY BE BILLED AS AN ADDITIONAL SERVICE AT THE CONTRACTORS EXPENSE AT THE SOLE DISCRETION OF THE SER. THE SER MAY WITHHOLD FUTURE SERVICES UNTIL PAYMENT IS RECEIVED.

AA. NOTE THAT THE GROUND FLOOR SLAB IS A GROUND SUPPORTED SLAB AT GRADE AS PER THE DESIGN RECOMMENDED IN THE GEOTECHNICAL REPORT. IT IS NOT A STRUCTURAL SLAB AND AS SUCH IT IS NOT DESIGNED FOR ANY EXTERNAL UPWARD OR DOWNWARD LOADS, IT IS INTENDED TO BE ENTIRELY SUPPORTED BY THE PREPARED GROUND UNDER THE SLAB. THE CONTRACTOR SHOULD NOTE THAT THE PERFORMANCE OF THE SLAB AS DESIGNED AND INTENDED BY THE GEOTECHNICAL ENGINEER IS HIGHLY DEPENDENT ON HOW WELL THE CONTRACTOR FOLLOWS THE SITE PREPARATION INSTRUCTIONS IN THE GEOTECHNICAL REPORT. THE ARCHITECT SHALL ADVISE THE OWNER THAT THE PERFORMANCE OF THE SLAB INVOLVES SOME RISK, AND THAT SLAB ON GRADE MAY EXPERIENCE VERTICAL MOVEMENTS OF 1-1/2 INCHES OR MORE DEPENDING ON CLIMATIC FACTORS AND IS DEPENDENT ON ENVIRONMENTAL CONDITIONS OVER WHICH THE OWNER HAS CONTROL OF AFTER OCCUPANCY OF THE BUILDING. FURTHERMORE, A SLAB ON GRADE CAN EXPERIENCE VERTICAL MOVEMENT BASED ON CHANGES IN THE MOISTURE CONTENT OF THE UNDERLYING SOILS AND THAT STRUCTURAL SLABS WOULD LIMIT THIS RISK AT A GREATER UP-FRONT COST TO THE PROJECT. THE ARCHITECT, CONTRACTOR AND THE OWNER SHOULD CONSULT WITH THE GEOTECHNICAL ENGINEER IF THERE ARE ANY QUESTIONS CONCERNING CONSTRUCTION, PERFORMANCE AND RISKS INVOLVED WITH GROUND SUPPORTED SLAB AT GRADE CONSTRUCTION.

DESIGN CRITERIA:

BUILDING CODE: INTERNATIONAL BUILDING CODE, 2021 EDITION, ASCE 7-16

LIVE LOAD:

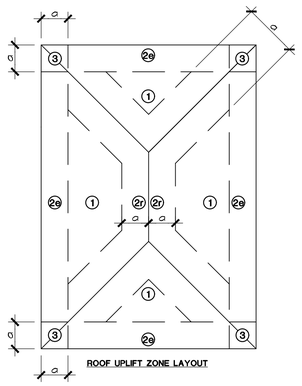
ROOF: 20 PSF

WIND LOAD:

VELOCITY (BASIC)	*131 MPH*	*THREE SECOND GUST (BASIC) ASCE 7-16*
EXPOSURE	*C*	
RISK CATEGORY	*II*	
INTERNAL PRESSURE COEFFICIENT, G_{CPi}	*+/- 0.18*	

MAIN WIND FORCE RESISTING SYSTEM (MWFRS):	
MAXIMUM HORIZONTAL INTERIOR PRESSURE	*43 PSF*
MAXIMUM HORIZONTAL EXTERIOR PRESSURE	*58 PSF*
MAXIMUM GROSS UPLIFT INTERIOR ZONE	*29 PSF*
MAXIMUM GROSS UPLIFT EXTERIOR ZONE	*42 PSF*
CORNER ZONE WIDTH	*12'-0" FROM EACH CORNER*

COMPONENTS AND CLADDING — GROSS ROOF UPLIFT IN PSF		
ZONE	*EFFECTIVE WIND AREA (SQUARE FEET)*	
	10	*200*
ZONE 1	*55*	*28*
ZONE 2e	*82*	*41*
ZONE 2r	*75*	*38*
ZONE 3	*55*	*31*
RELIABLE DEAD LOAD	*5 PSF*	
SEE FIGURE FOR ZONE LAYOUT a=6'-0"		



ROOF UPLIFT ZONE LAYOUT

COMPONENTS AND CLADDING — WALLS IN PSF		
ZONE	*EFFECTIVE WIND AREA (SQUARE FEET)*	
	10	*200*
INTERIOR ZONE/ZONE 4	*31*	*23*
EXTERIOR (CORNER) ZONE/ZONE 5	*41*	*26*
CORNER ZONE WIDTH	*6 '- 0" FROM EACH CORNER*	

ALLOWABLE SOIL BEARING CAPACITY:
(AT 4'—0" BELOW EXISTING GRADE)

TOTAL LOAD	*3000 PSF*
DEAD LOAD	*2000 PSF*

MASONRY WALL NOTES

1. THE STRUCTURAL PLANS ONLY SHOW THE LOAD BEARING "STRUCTURAL" MASONRY.
2. MASONRY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH PART 3 OF ACI 531 "BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY CONSTRUCTION".
3. ALL CONCRETE MASONRY UNITS SHALL BE HOLLOW LOAD BEARING UNITS CONFORMING TO THE REQUIREMENTS OF ASTM C90, TYPE I AND THE QUALITY CONTROL STANDARDS OF THE CONCRETE MASONRY ASSOCIATION.
4. NORMAL WEIGHT CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C90, TYPE II, WITH A MINIMUM DESIGN COMPRESSIVE STRENGTH OF 3,750 PSI. CONCRETE MASONRY UNITS USED BELOW GRADE SHALL BE COMPOSED OF NORMAL WEIGHT AGGREGATE. LIGHT WEIGHT CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C331 WITH A MINIMUM DESIGN COMPRESSIVE STRENGTH OF 3,750 PSI. CONCRETE MASONRY UNITS USED ABOVE GRADE SHALL BE COMPOSED OF LIGHTWEIGHT AGGREGATE.
5. ALL MASONRY UNITS SHALL HAVE A MINIMUM NET COMPRESSIVE STRENGTH OF 3,750 PSI AND A MINIMUM NET TENSILE STRENGTH OF NOT LESS THAN 125 PSI, WHEN TESTED IN ACCORDANCE WITH THE METHODS SET FORTH IN THE QUALITY CONTROL STANDARDS OF THE CONCRETE MASONRY ASSOCIATION.
6. MASONRY UNITS SHALL HAVE CURED FOR NOT LESS THAN 28 DAYS WHEN PLACED IN THE STRUCTURE.
7. ALL MASONRY UNITS SHALL HAVE A MAXIMUM LINEAR SHRINKAGE OF .065 OF 1% FROM THE SATURATED TO THE OVEN DRY CONDITION, WHEN TESTED IN ACCORDANCE WITH THE METHODS SET FORTH IN THE QUALITY CONTROL STANDARDS OF THE CONCRETE MASONRY ASSOCIATION.
8. MASONRY MORTAR SHALL BE FRESHLY PREPARED, UNIFORMLY MIXED AND SHALL CONFORM TO ASTM C270, TYPE 'S' WITH A MINIMUM COMPRESSIVE STRENGTH OF 1,800 PSI AT 28 DAYS. MASONRY CEMENT AND MORTAR CEMENT SHALL NOT BE USED. USE ASTM C270 TYPE 'M' MORTAR WITH A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS IS REQUIRED IN BELOW GRADE APPLICATIONS. FOR MULTI WYTHE WALLS USE THE SAME TYPE OF MORTAR FOR EACH WYTHE.
9. BRICK MORTAR SHALL BE FRESHLY PREPARED, UNIFORMLY MIXED, AND-SHALL CONFORM TO ASTM C270, TYPE 'N' WITH A MINIMUM COMPRESSIVE STRENGTH OF 750 PSI AT 28 DAYS.
10. GROUT MIXTURES SHALL CONFORM TO ASTM C476 WITH A 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI AND A MAXIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
11. CONCRETE MASONRY CONSTRUCTION SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF THE MASONRY (f'm) SHALL BE 2500 PSI ON THE NET CROSS SECTIONAL AREA AT 28 DAYS.
12. ALL CELLS WITH REINFORCING BARS SHALL BE GROUTED SOLID AND CONCRETE MASONRY UNITS LOCATED BELOW GRADE SHALL HAVE ALL CELLS FULLY GROUTED. REINFORCING STEEL SHALL CONSIST OF DEFORMED GRADE 60 BARS CONFORMING TO ASTM A615. BARS SHALL BE NEW BILLET STEEL OF A DOMESTIC MANUFACTURE. ALL CELLS TO BE GROUTED SHALL BE CLEAN AND FREE OF EXCESS MORTAR AND FOREIGN MATERIALS.
13. ALL CELLS SHOWN TO HAVE DRILLED EXPANSION ANCHORS, EMBEDDED HEADED STUDS OR OTHER EMBEDDED ANCHORS SHALL BE GROUTED SOLID.
14. HORIZONTAL JOINT REINFORCEMENT SPACED AT 16 INCHES ON CENTER MAX. VERTICALLY SHALL CONFORM TO ASTM A951 WITH A MINIMUM YIELD STRENGTH OF 70,000 PSI AND A MINIMUM SIZE OF 9 GAGE FOR SIDE RODS AND 9 GAGE FOR TRUSS RODS.
15. BOND BEAM BLOCKS SHALL BE OPEN BOTTOM UNITS AND ARE TO BE USED AT THE TOPS OF WALLS AND AT THE MID-HEIGHT OF WALL OR AT 8'-0" ON CENTER VERTICALLY MAXIMUM UNLESS NOTED OTHERWISE ON THE DRAWINGS. PROVIDE (2) NO. 4 BARS IN A SOLID GROUTED BOND BEAM UNLESS NOTED OTHERWISE. LINTEL BLOCKS SHALL NOT BE USED IN PLACE OF BOND BEAM BLOCKS. BOND BEAMS TO STOP AND START AT EVERY THIRD VERTICAL CONTROL JOINT. BOND BEAM TO BE CUT AT EVERY VERTICAL CONTROL JOINT BUT REINFORCING TO REMAIN CONTINUOUS.
16. OPENINGS IN MASONRY WALLS SHALL HAVE EITHER MASONRY OR STEEL LINTELS AS DETAILED ON THE DRAWINGS. WHEN NO LINTEL IS DETAILED A MINIMUM OF (2) NO. 4 BARS IN A SOLID GROUTED LINTEL BLOCK SHALL BE INSTALLED. THE BARS SHALL EXTEND A MINIMUM OF EIGHT INCHES BEYOND THE EDGE OF THE OPENING AND THE JAMB AT EACH SIDE OF THE OPENING SHALL BE GROUTED SOLID FOR A DISTANCE OF EIGHT INCHES WITH A NO. 5 VERTICAL MINIMUM AT EACH JAMB. LAP BARS 2'-0" MIN. OR 40 BAR DIAMETERS AT SPLICES, INTERSECTIONS AND CORNERS.
17. LINTEL BLOCKS SHALL BE "U" SHAPED UNITS WITH SOLID BOTTOMS AND ARE TO BE USED OVER WINDOW AND DOOR OPENINGS. BOND BEAM BLOCKS SHALL BE OPEN BOTTOM UNITS AND ARE TO BE USED AT THE TOPS OF WALLS AND AT THE MID-HEIGHT OF WALL OR AT 8'-0" ON CENTER VERTICALLY MAXIMUM UNLESS NOTED OTHERWISE ON THE DRAWINGS. PROVIDE (2) NO. 4 BARS IN A SOLID GROUTED BOND BEAM UNLESS NOTED OTHERWISE. LINTEL BLOCKS SHALL NOT BE USED IN PLACE OF BOND BEAM BLOCKS. VERTICAL REINFORCING SHALL EXTEND THROUGH ALL BOND BEAMS. BOND BEAMS TO STOP AND START AT EVERY THIRD VERTICAL CONTROL JOINT. BOND BEAM TO BE CUT AT EVERY VERTICAL CONTROL JOINT BUT REINFORCING TO REMAIN CONTINUOUS THRU THE CONTROL JOINT.
18. STEEL LINTELS SHALL BEAR 8 INCHES MINIMUM AT EACH END ON FLASHING ABOVE AND BELOW THE ANGLE. VERTICAL CONTROL JOINTS SHALL EXTEND UP FROM THE END OF THE STEEL LINTEL, UNLESS 15# FELT OR FLASHING IS PROVIDED TOP AND BOTTOM OF LINTEL ANGLE WHERE ANGLE BEARS ON BRICK.
19. MASONRY WALLS SHALL HAVE VERTICAL CONTROL JOINTS AT APPROXIMATELY SIXTEEN (16) FEET TO TWENTY-FOUR (24) FEET ON CENTER AND FOUR (4) FEET MAXIMUM FROM CORNERS OR AT A MAXIMUM HEIGHT/LENGTH RATIO OF 1.5 FOR UNREINFORCED WALLS AND H/L OF 2 FOR REINFORCED WALLS. COORDINATE THE LOCATION OF JOINTS WITH THE ARCHITECT. PROVIDE HECKMANN NO. 351 CONTROL JOINT ANCHORS AT 16 INCHES ON CENTER VERTICALLY AT BRICK MASONRY AND HECKMANN NO. 350 CONTROL JOINT ANCHORS AT 16 INCHES ON CENTER VERTICALLY AT CONCRETE MASONRY UNITS.
20. AT FREE VERTICAL EDGES, CORNERS AND INTERSECTIONS OF WALLS PROVIDE AT LEAST (1) NO. 5 DOWEL AND VERTICAL IN GROUT FILLED END CORE, UNLESS NOTED OTHERWISE ON THE DRAWINGS. PROVIDE AT LEAST (1) NO. 5 DOWEL AND VERTICAL IN GROUT FILLED CORE AT ALL JOIST AND BEAM BEARING LOCATIONS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
21. PROVIDE A MINIMUM OF NO. 4 AT 48 INCHES ON CENTER VERTICAL WALL REINFORCING AND DOWELS IN FULLY GROUTED CELLS AT ALL EXTERIOR AND INTERIOR WALLS UNLESS A GREATER REINFORCING IS SHOWN ON THE PLANS OR IN THE DETAILS. PROVIDE 1/2 INCH DIAMETER DEFORMED BAR ANCHORS AT 48 INCHES ON CENTER WELDED TO STEEL MEMBERS SUPPORTING MASONRY ABOVE UNLESS NOTED OTHERWISE ON THE DRAWINGS.
22. PROVIDE HOHMAN AND BARNARD RB-8 REBAR POSITIONERS OR EQUAL AT EVERY THIRD COURSE AND AT SPLICE LOCATIONS.
23. ALL MASONRY TIES TO BACKUP STRUCTURE SHALL BE HOT DIP GALVANIZED. PROVIDE A HECKMANN NO. 315 ANCHOR WITH NO. 316 TRIANGULAR TIE-ON COLUMNS AT 16 INCHES (15 INCHES AT KING SIZE BRICK) ON CENTER VERTICALLY AND A HECKMANN NO. 191 OR 192 ANCHORS ON EACH SIDE OF ALL BEAMS AT 16 INCHES ON CENTER HORIZONTALLY UNLESS NOTED OTHERWISE ON THE DRAWINGS. MASONRY TIES TO WALL STUDS SHALL BE A HECKMANN NO. 316 TRIANGULAR TIE WITH A HECKMANN NO. 315-C SCREW ON ANCHOR STRAP OR HECKMANN #77 WING NUT POS-I-TIE ANCHOR SPACED 16 INCHES (15 INCHES AT KING SIZE BRICK) ON CENTER HORIZONTALLY AND 16 INCHES ON CENTER VERTICALLY. AT TOP OF WALLS AND AT WALL CORNERS AND INTERSECTIONS PROVIDE TWO VERTICAL ROWS OF ANCHORS SPACED 16 INCHES APART AND 16 INCHES ON CENTER VERTICALLY. TRIANGULAR TIES SHALL EXTEND 3/4 INCH FROM FACE OF MASONRY. ANCHOR STRAPS SHALL BE ATTACHED TO METAL STUDS WITH TWO (2) #10-16x 1-1/2 INCHES CADMIUM PLATED HEX HEAD SHEET METAL SCREWS WITH NEOPRENE WASHER.
24. ANCHOR WOOD SILLS (PRESSURE TREATED) TO CMU WITH 1/2 INCH DIA. x 9 INCHES LONG HOT-DIP GALVANIZED, HOOKED ANCHOR BOLTS WITH 9/16-INCH-WIDE TYPE 'B' HOT-DIP GALVANIZED WASHERS EMBEDDED 7 INCH MINIMUM AT 24 INCHES MAX. ON CENTER. AT CORNERS AND DOOR OPENINGS PROVIDE ONE ANCHOR BOLT AT 8 INCHES IN EACH DIRECTION FROM CORNER. PROVIDE TWO BOLTS MINIMUM PER PIECE OF SILL PLATE.
25. ALL MASONRY DESIGN IS BASED CHAPTER 21 OF INTERNATIONAL BUILDING CODE, LATEST EDITION AND ACI 530/TMS 402, LATEST EDITION.
26. TOPS OF ALL NON-LOAD BEARING INTERIOR WALLS SHALL BE BRACED ACCORDING TO THE SPECIFIC SECTION INDICATED ON PLAN OR THE TYPICAL DETAILS.

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STRUCTURAL TESTING AND INSPECTIONS

EARTHWORK TESTING

1. *DURING EARTHWORK OPERATIONS KEEP A COMPETENT TRAINED TECHNICIAN ASSIGNED TO THE PROJECT. SERVICES PROVIDED SHALL INCLUDE:*
   - A) *OBSERVE STRIPPING OPERATIONS AND EVALUATE THE REQUIRED STRIPPING DEPTH DURING THESE OPERATIONS.*
   - B) *OBSERVE PROOFROLLING OPERATIONS AFTER SITE STRIPPING. DETERMINE IF ANY SOFT SPOTS NEED TO BE UNDERCUT TO FIRM SOILS, REPLACED WITH SELECT FILL AND RECOMPACTED.*
   - C) *VERIFY THAT THE SUBGRADE SHALL THEN BE SCARIFIED AND MOISTURE CONDITIONED TO A SIX (6) INCH DEPTH AND THEN RECOMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN OPTIMUM AND +3 PERCENT OF THE OPTIMUM MOISTURE CONTENT. PROVIDE A MINIMUM OF FOUR (4) FIELD DENSITY TESTS ON THE SUBGRADE OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER.*
   - D) *STRUCTURAL SELECT FILL PAD MATERIAL SHALL BE TESTED FOR ACCEPTABILITY AND A MOISTURE DENSITY CURVE SHALL BE ESTABLISHED. SELECT FILL MATERIAL SHALL BE AN INORGANIC SANDY CLAY WITH LIQUID LIMIT BETWEEN 26 AND 40 AND PLASTICITY INDEX BETWEEN 12 AND 20.*
   - E) *SELECT FILL SHALL BE PLACED IN EIGHT INCH LOOSE LIFTS AND COMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN -3 AND +3 PERCENT OF THE OPTIMUM MOISTURE CONTENT FOR SELECT FILL.*
   - F) *SELECT FILL MATERIAL SHALL BE TESTED DURING PLACEMENT OF EACH LIFT FOR THE ATTERBERG LIMITS IN ACCORDANCE WITH ASTM D4318-98 METHOD B "STANDARD TEST METHOD FOR LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS" TO VERIFY THAT THE SELECT FILL MATERIAL IS IN ACCORDANCE WITH THE ORIGINALLY APPROVED SELECT FILL MATERIAL. PROVIDE A MINIMUM OF ONE (1) TEST PER LIFT OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER WITH A MAXIMUM OF TEN (10) PER LIFT.*
   - G) *OBSERVE THE EXCAVATION DAILY AND ENSURE THAT THE CONTRACTOR MAINTAINS A CLEAN EXCAVATION THAT IS FREE OF WATER 100% OF THE TIME. CONTRACTOR SHALL PROVIDE PUMPS AS REQUIRED TO REMOVE ANY WATER AT ALL TIMES.*
   - H) *OBSERVE GRADING OPERATIONS TO ENSURE THAT PROPER DRAINAGE AWAY FROM THE BUILDING PAD IS PROVIDED.*

SPREAD FOOTINGS TESTING

1. *DURING SPREAD FOOTING OPERATIONS KEEP A COMPETENT TRAINED TECHNICIAN ASSIGNED TO THE PROJECT. SERVICES PROVIDED SHALL INCLUDE:*
   - A) *OBSERVING THE BOTTOM OF FOOTING FOR CLEANLINESS.*
   - B) *CHECKING FOOTING BOTTOM FOR PROPER BEARING MATERIAL.*
   - C) *NOTING DEPTH AND SIZE OF ALL FOOTINGS.*
   - D) *VERIFY QUANTITY, SIZE AND LOCATION OF REINFORCEMENT AND CLEAR COVER REQUIREMENTS.*
   - E) *CHECK FOR CAVING OF FOOTING WALLS.*
   - F) *CHECKING THAT THE PILASTER IS CONCENTRIC WITH THE FOOTING.*
   - G) *CHECKING THAT COLUMN OR GRADE BEAM DOWELS ARE LOCATED PROPERLY.*
2. *ENSURE THAT THE SPOILS FROM THE FOOTING EXCAVATIONS ARE REMOVED FROM THE BUILDING PAD.*

CONCRETE TESTING

1. *CONCRETE MIX DESIGNS SHALL BE SUBMITTED FOR REVIEW INDICATING CONFORMANCE WITH ACI 318, LATEST EDITION, CHAPTER 5, SECTION 5.3.*
2. *SLUMP TESTS, CONFORMING TO ASTM C143, SHALL BE TAKEN AT THE POINT OF DISCHARGE AT THE SAME RATE AS NOTED BELOW IN NOTE NUMBER 5.*
3. *AIR CONTENT TESTS CONFORMING TO ASTM C173, VOLUMETRIC METHOD FOR LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE; ASTM C231 PRESSURE METHOD FOR NORMAL WEIGHT CONCRETE; SHALL BE TAKEN FOR EACH DAY'S POUR OF EACH TYPE OF AIR-ENTRAINED CONCRETE.*
4. *CONCRETE TEMPERATURE SHALL BE TESTED HOURLY WHEN AIR TEMPERATURE IS 40 DEG F (4 DEG C) AND BELOW, WHEN 80 DEG F (27 DEG C) AND ABOVE, AND EACH TIME A SET OF COMPRESSION TEST SPECIMENS IS MADE.*
5. *ONE SET OF FOUR COMPRESSION TEST SPECIMENS CONFORMING TO ASTM C31 SHALL BE MOLDED AND STORED FOR LABORATORY-CURED SPECIMENS. COMPRESSIVE STRENGTH TESTS SHALL CONFORM TO ASTM C39 AND SHALL CONSIST OF ONE SET FOR EACH DAY'S POUR EXCEEDING 5 CU. YDS. PLUS ADDITIONAL SETS FOR EACH 50 CU. YDS. MORE THAN THE FIRST 25 CU. YDS OF EACH CONCRETE CLASS PLACED IN ANY ONE DAY. ONE SPECIMEN SHALL BE TESTED AT 7 DAYS, TWO SPECIMENS SHALL BE TESTED AT 28 DAYS, AND ONE SPECIMEN SHALL BE RETAINED FOR LATER TESTING AS REQUIRED.*
6. *VERIFY CONCRETE IS BEING CONSOLIDATED IN ACCORDANCE WITH THE RECOMMENDATIONS OF ACI 318 AND ACI 308R, LATEST EDITION.*
7. *VERIFY THAT POST INSTALLED ANCHORS ARE AS SPECIFIED AND THAT THE ANCHORS ARE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.*

REINFORCING STEEL INSTALLATION

1. *DURING CAST-IN-PLACE CONCRETE STRUCTURAL MEMBER REINFORCING PLACEMENT OPERATIONS KEEP A COMPETENT TRAINED TECHNICIAN ASSIGNED TO THE PROJECT. INSPECT REINFORCING UTILIZING ACI 311.4R "GUIDE FOR CONCRETE INSPECTION" AS A GUIDE. SERVICES PROVIDED SHALL INCLUDE:*
   - A) *VERIFY TYPE AND GRADE OF ALL REINFORCING STEEL.*
   - B) *VERIFY REBAR IS FREE OF OIL, DIRT, EXCESSIVE RUST AND FROM DAMAGE IN SHIPMENT TO SITE.*
   - C) *VERIFY REINFORCING IS ADEQUATELY TIED, CHAIRED AND SUPPORTED TO PREVENT DISPLACEMENT DURING CONCRETE PLACEMENT.*
   - D) *VERIFY MINIMUM AND MAXIMUM CLEAR DISTANCES BETWEEN BARS AND MINIMUM STRUCTURAL DISTANCE TO OUTSIDE OF CONCRETE.*
   - E) *VERIFY QUANTITY, SIZE AND LOCATION OF REINFORCEMENT.*
   - F) *VERIFY MINIMUM CONCRETE COVER IS MAINTAINED BETWEEN REBAR AND SURFACE OF CONCRETE.*
   - G) *VERIFY SIZE AND PLACEMENT OF REBAR. VERIFY LAP LENGTHS, LOCATIONS AND STAGGERS AND VERIFY BENDS FOR MINIMUM DIAMETER, SLOPE AND LENGTH. VERIFY HOOKED BAR LENGTHS AND LOCATIONS.*

POST INSTALLED ANCHORS — FIELD QUALITY CONTROL

1. *THE INTERNATIONAL BUILDING CODE IBC 2021 REQUIRES SPECIAL INSPECTION OF ALL POST-INSTALLED ANCHORS. ACI 318-19 SECTIONS 26.13.1.5 AND 26.13.1.6 REQUIRE THAT ALL INSPECTIONS OF MECHANICAL AND ADHESIVE ANCHORS, RESPECTIVELY, ARE PERFORMED BY A CERTIFIED FIELD INSPECTOR SPECIFICALLY APPROVED FOR THAT PURPOSE BY THE SER AND THE BUILDING OFFICIAL. CERTIFICATION IS ESTABLISHED THROUGH AN INDEPENDENT ASSESSMENT SUCH AS THE ACI POST-INSTALLED CONCRETE ANCHOR INSTALLATION INSPECTOR PROGRAM OR SIMILAR PROGRAM WITH EQUIVALENT REQUIREMENTS. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS SHALL BE CONTINUOUSLY INSPECTED DURING INSTALLATION BY A CERTIFIED INSPECTOR.*
2. *POST-INSTALLED EXPANSION AND ADHESIVE ANCHORS SHALL BE PROOF LOADED AS REQUIRED IN THE CONTRACT DOCUMENTS. A PERCENTAGE OF EACH TYPE AND SIZE OF EACH TYPE OF SIZE OF ANCHOR ASSEMBLY SHALL BE PROOF LOADED IN TENSION BY AN INDEPENDENT TESTING LABORATORY UNLESS OTHERWISE SHOWN ON THE CONTRACT DOCUMENTS.*
   - A) *PROOF LOADING SHALL BE CONDUCTED AS CONFINED TENSION TESTING FOR ADHESIVE ANCHORS USING A CENTER-HOLE CYLINDER.*
   - B) *THE INDEPENDENT TESTING LABORATORY SHALL SUBMIT AN ANCHORAGE TESTING PLAN TO THE SER TO ENSURE THE TESTING REQUIREMENTS ARE FULFILLED.*
   - C) *PROOF LOAD RANDOM SAMPLE RATES AS FOLLOWS:*

TYPE OF ANCHOR	SAMPLE RATE (PERCENT)
REINFORCING FOR SLAB ON GROUND	5
REINFORCING — GRADE BEAMS	30
REINFORCING — CONCRETE BEAMS	50
REINFORCING — CONCRETE COLUMNS	50
ANCHOR BOLTS NEW OR REPLACEMENT — SHEAR ONLY	25
ANCHOR BOLTS NEW OR REPLACEMENT — MOMENT FRAMES	50
ANCHORS FOR SHEAR TABS/PLATES OR ANGLES	30
ANCHORS IN TENSION — STRUCTURAL MEMBERS	50
ANCHORS IN TENSION — NON-STRUCTURAL MEMBERS	25
ANCHORS SUPPORTING LIFE SAFETY DEVICES	100

3. *POST-INSTALLED EXPANSION AND ADHESIVE ANCHORS SHALL BE PROOF LOADED TO LOAD LEVELS AS SHOWN ON THE CONTRACT DOCUMENTS. OR AS INDICATED ON THE STRUCTURAL DRAWINGS FOR THE SPECIFIC ANCHOR TYPES ABOVE. PROOF LOADING OF ADHESIVE ANCHORS SHALL BE PERFORMED AFTER A MINIMUM CURING PERIOD SPECIFIED BY THE MANUFACTURER.*
4. *ANCHORS SHALL HAVE NO VISIBLE INDICATIONS OF DISPLACEMENT OR DAMAGE DURING OR AFTER PROOF LOAD APPLICATION. CONCRETE CRACKING IN THE VICINITY OF THE ANCHOR AFTER LOADING SHALL BE CONSIDERED A FAILURE.*
5. *IF AN ANCHOR FAILS, MODIFY ALL INSTALLATIONS OF THE SAME TYPE AND RETEST UNTIL SATISFACTORY RESULTS ARE ACHIEVED*
6. *IF MORE THAN 5 PERCENT OF THE TESTED ANCHORS FAIL TO ACHIEVE THE SPECIFIED PROOF LOAD WITHIN THE LIMITS DEFINED ON THESE DRAWINGS, THEN 100 PERCENT OF THE ANCHORS OF THE SAME DIAMETER AND TYPE AS THE FAILED ANCHOR SHALL BE PROOF TESTED, UNLESS OTHERWISE DIRECTED BY THE SER.*
7. *PROVIDE WRITTEN FASTENER LOAD TEST REPORTS AND INTERMITTENT SPECIAL INSPECTION REPORTS OF POST INSTALLED FASTENERS AS THE WORK PROGRESSES.*

STRUCTURAL STEEL TESTING

1. *CERTIFY WELDERS FOR THE WELD TYPES IN THE PROJECT AND CONDUCT INSPECTIONS AND TESTS AS REQUIRED, AS A MINIMUM, WELDERS SHALL BE AISC CERTIFIED. RECORD TYPES AND LOCATIONS OF DEFECTS FOUND IN WORK. RECORD WORK REQUIRED AND PERFORMED TO CORRECT DEFICIENCIES.*
2. *VISUALLY INSPECT 100% OF ALL FILLET WELDS.*
3. *VISUALLY INSPECT 100% OF ALL FULL PENETRATION WELDS, TEST 20% OF ALL FULL PENETRATION WELDS BY ONE OF THE FOLLOWING METHODS: LIQUID PENETRANT INSPECTION (ASTM E165), MAGNETIC PARTICLE INSPECTION (ASTM E709; PERFORMED ON THE ROOT PASS AND ON THE FINISHED WELD; CRACKS AND ZONES OF INCOMPLETE FUSION OR PENETRATION IS NOT ACCEPTABLE), RADIOGRAPHIC INSPECTION (ASTM E94 AND ASTM E142; MINIMUM QUALITY LEVEL OF "2-2T"), OR ULTRASONIC INSPECTION (ASTM E164). IF FAILURE RATE IS 20% OR GREATER, TEST 100% OF WELDS AT CONTRACTOR'S EXPENSE UNTIL FAILURE RATE FALLS BELOW 20%.*
4. *ALL WELDS THAT FAIL SHALL BE REWELDED AND RETESTED UNTIL THEY PASS THE TEST. TEST TWO ADDITIONAL WELDS AT THE CONTRACTOR'S EXPENSE FOR EVERY WELD FAILURE.*
5. *BOLTS SHALL BE VISUALLY INSPECTED WHEN TWIST-OFF SPLINES ARE USED, OTHERWISE BOLTS SHALL BE SNUG TIGHT.*
6. *ALL FULL PENETRATION WELDS AT MOMENT CONNECTIONS REQUIRING TESTING SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING LABORATORY USING NON-DESTRUCTIVE TESTING METHODS. FOR SHOP WELDS, CERTIFICATION SHALL BE SUBMITTED PRIOR TO SHIPPING TO THE JOB SITE. FOR FIELD WELDS, CERTIFICATION SHALL BE SUBMITTED PRIOR FLOOR DECK INSTALLATION AND CONCRETE PLACEMENT AND PRIOR TO COVERING CONNECTIONS WITH FIREPROOFING OR ARCHITECTURAL FINISHES.*

MASONRY TESTING

1. *MASONRY TESTING SHALL CONSIST OF A QUALIFIED TESTING LABORATORY PROVIDING THE FOLLOWING SERVICES:*
   - A) *VERIFY QUANTITY, SIZE AND SPACING OF REQUIRED REINFORCING SHOWN ON THE DRAWINGS.*
   - B) *OBSERVE THE INSTALLATION OF MASONRY UNITS.*
   - C) *INSPECTION OF GROUT SPACE, IMMEDIATELY PRIOR TO CLOSING OF CLEANOUTS AND PRIOR TO ALL GROUTING OPERATIONS. VERIFY THAT THE SPECIFIED CELLS HAVE BEEN FULLY GROUTED.*
   - D) *MONITOR THE PROPORTIONING, MIXING AND CONSISTENCY OF MORTAR AND GROUT. PROVIDE 28 DAY COMPRESSIVE STRENGTH TESTS ON EACH GROUT MIX IN ACCORDANCE WITH ASTM C1019. COMPRESSION TEST MASONRY PRISMS FOR EACH TYPE OF WALL CONSTRUCTION IN ACCORDANCE WITH ASTM C13/14. CONTRACTOR SHALL PREPARE ONE SET OF PRISMS FOR TESTING AT 28 DAYS. TESTS ARE TO BE CONDUCTED FOR EACH 2000 SQUARE FEET OF WALL INSTALLED, BUT NOT LESS THAN TWO TESTS.*

SPECIAL INSPECTIONS AND STRUCTURAL TESTING

SPECIAL INSPECTION WORK AND THE FINAL LETTER OF COMPLIANCE HAVE NOT BEEN INCLUDED IN THE STRUCTURAL ENGINEER OF RECORD'S SCOPE OF SERVICES. THE OWNER IS RESPONSIBLE FOR OBTAINING THE SERVICES OF THE SPECIAL INSPECTOR AND THE TESTING LABORATORY. SPECIAL INSPECTIONS CAN BE PROVIDED BY AN INDEPENDENT SPECIAL INSPECTOR APPROVED BY THE BUILDING AUTHORITY. THE SPECIAL INSPECTION WORK DOES NOT INCLUDE THE TESTING LABORATORY SERVICES AS CALLED FOR ON THE DRAWINGS. ARRANGEMENTS FOR SPECIAL INSPECTIONS SHOULD BE MADE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE TESTING LABORATORY AND SPECIAL INSPECTOR IN A TIMELY MANNER PRIOR TO PROCEEDING WITH CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK REQUIRING INSPECTIONS WITHOUT THE TESTING LABORATORY'S OR SPECIAL INSPECTOR'S PRESENCE.

STRUCTURAL STATEMENT OF SPECIAL INSPECTIONS

THE STRUCTURAL SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL STRUCTURAL INSPECTIONS AND SHALL FURNISH INSPECTION REPORTS TO THE OWNER AND THE STRUCTURAL REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (SRDP). DISCOVERED DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND THE SRDP. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES.

A FINAL REPORT OF SPECIAL INSPECTION DOCUMENTING COMPLETION OF ALL SPECIAL INSPECTIONS, TESTING AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO THE OWNER AND THE SRDP PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY AND USE.

STRUCTURAL SCHEDULE OF SPECIAL INSPECTIONS

QUALIFICATIONS OF INSPECTORS AND TESTING TECHNICIANS

THE QUALIFICATIONS OF ALL PERSONNEL PERFORMING SPECIAL INSPECTION AND TESTING ACTIVITIES ARE SUBJECT TO THE APPROVAL OF THE OWNER. THE CREDENTIALS OF ALL INSPECTORS AND TESTING TECHNICIANS SHALL BE PROVIDED TO THE SPECIAL INSPECTOR FOR THEIR RECORDS.

KEY FOR MINIMUM QUALIFICATION OF INSPECTION AGENTS

WHEN THE REGISTERED DESIGN PROFESSION IN RESPONSIBLE CHARGE OR SPECIAL INSPECTOR OF RECORD DEEMS APPROPRIATE THAT THE INDIVIDUAL PERFORMING THE STIPULATED TEST OR INSPECTION HAVE A SPECIFIC CERTIFICATION, LICENSE OR EXPERIENCE AS INDICATED BELOW. SUCH REQUIREMENT SHALL BE LISTED BELOW AND SHALL BE CLEARLY IDENTIFIED WITHIN THE SCHEDULE UNDER THE AGENT QUALIFICATION DESIGNATION.

PE/SE STRUCTURAL ENGINEER
A LICENSED SE OR PE SPECIALIZING IN THE DESIGN OF BUILDING STRUCTURES

PE/GE GEOTECHNCIAL ENGINEER
A LICENSED PE SPECIALIZING IN SOIL MECHANICS AND FOUNDATIONS

EIT OR ENGINEER IN TRAINING
A GRADUATE ENGINEER WHO HAS PASSED THE FUNDAMENTALS OF ENGINEERING EXAM

EXPERIENCED TESTING TECHNICIAN

ETT OR EXPERIENCED TESTING TECHNICIAN
AN EXPERIENCED TESTING TECHNICIAN WITH A MINIMUM OF 5 YEARS EXPERIENCE WITH THE STIPULATED TEST OR INSPECTION

AMERICAN CONCRETE INSTITUTE (ACI) CERTIFICATION
ACI-CFTT CONCRETE FIELD-TESTING TECHNICIAN - GRADE I
ACI-CCI CONCRETE CONSTRUCTION INSPECTOR
ACI-LTT LABORATORY TESTING TECHNICIAN - GRADE II32
ACI-STT STRENGTH TESTING TECHNICIAN

AMERICAN WELDING SOCIETY (AWS) CERTIFICATION
AWS-CWI CERTIFIED WELDING INSPECTOR
AWS/AISC-SSI CERTIFIED STRUCTURAL STEEL INSPECTOR

CHAPTER 17 OF THE 2021 INTERNATIONAL BUILDING CODE IS INTERPRETED TO REQUIRE SPECIAL INSPECTION FOR THE FOLLOWING ITEMS IN THE FOLLOWING TABLES:

SCHEDULE OF SPECIAL INSPECTIONS

VERIFICATION/INSPECTION	SOIL/FOUNDATION INSPECTION		
IBC SECTION 1705.6, TABLE 1705.6	EXTENT CONTINUOUS, PERIODIC	COMMENTS	AGENT PE/GE, EIT OR ETT
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	PERIODIC		ETT
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	PERIODIC		ETT
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	PERIODIC		ETT
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	CONTINUOUS		ETT
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	PERIODIC		ETT

SCHEDULE OF SPECIAL INSPECTIONS

VERIFICATION/INSPECTION	CONCRETE INSPECTION		
IBC SECTION 1705.3, TABLE 1705.3	EXTENT CONTINUOUS, PERIODIC	COMMENTS	AGENT PE/GE, EIT OR ETT
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	PERIODIC	ACI 318- Ch. 20, 25.2, 25.3, 26.6.1-26.6.3 IBC 1908.4	ETT
2. REINFORCING BAR WELDING-			
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	PERIODIC	AWS D1.4 ACI 318- 26.6.4	AWS-CWI
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	PERIODIC		
C. INSPECT ALL OTHER WELDS	CONTINUOUS		
3. INSPECT ANCHORS CAST IN CONCRETE	PERIODIC	ACI 318- 17.8.2	ETT
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS			
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	CONTINUOUS	ACI 318- 17.8.2.4	ETT
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A	PERIODIC	ACI 318- 17.8.2	
5. VERIFY USE OF REQUIRED MIX DESIGN	PERIODIC	ACI 318- Ch. 19, 26.4.3, 26.4.4 IBC 1904.1, 1904.2, 1908.2, 1908.3	ETT
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONRETE	CONTINUOUS	ASTM C 172 ASTM C 31 ACI 318- 26.4, 26.12 IBC 1908.8	ACI-CFTT OR ACI-STT
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	CONTINUOUS	ACI 318- 26.5 IBC 1908.6, 1908.7, 1908.8	ETT
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	PERIODIC	ACI 318- 26.5.3-26.5.5 IBC 1908.9	ETT
9. INSPECT PRESTRESSED CONCRETE FOR-			
A. APPLICATION OF PRESTRESSING FORCES	CONTINUOUS	ACI 318- 26.10	ETT
B. GROUTING OF BONDED PRESTRESSING TENDONS	CONTINUOUS		
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	PERIODIC	ACI 318- Ch. 26.8	ETT
11. VERIFY 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	PERIODIC	ACI 318- 26.11.2	ETT
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	PERIODIC	ACI 318- 26.11.1.2(b)	ETT

SCHEDULE OF SPECIAL INSPECTIONS

VERIFICATION/INSPECTION	MASONRY LEVEL 1 INSPECTION				
IBC SECTION 1705.4 TMS 402/ACI 530/ASCE 5 TMS 602/ACI 530.1/ASCE 6	EXTENT CONTINUOUS, PERIODIC	COMMENTS			AGENT PE/GE, EIT OR ETT
		IBC SECTION	TMS 402 ACI 530 ASCE 5	TMS 602 ACI 530.1 ASCE 6	
1. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED	PERIODIC			ART. 1.5	ETT
2. VERIFICATION OF f'm AND f'AAC PRIOR TO CONSTRUCTION EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE	PERIODIC			ART. 1.4B	ETT
3. VERIFICATION OF SLUMP FLOW AND VSI AS DELIVERED TO THE SITE FOR SELF-CONSOLIDATING GROUT	CONTINUOUS			ART. 1.5B.1.b.3	ETT
4. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE-					
A. PROPORTIONS OF SITE-PREPARED MORTAR	PERIODIC			ART. 2.6A	ETT
B. CONSTRUCTION OF MORTAR JOINTS	PERIODIC			ART. 3.3B	ETT
C. LOCATION OF REINFORCEMENT, CONNECTORS, PRESTRESSING TENDONS AND ANCHORAGES	PERIODIC			ART. 3.4, 3.6A	
D. PRESTRESSING TECHNIQUE	PERIODIC			ART. 3.6B	
E. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	PERIODIC			ART. 2.4B 2.4H	
5. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE-					
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS	PERIODIC			ART. 3.3F	ETT
B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION	PERIODIC		SEC. 12.2(e) 1.16.1		ETT
C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT, ANCHOR BOLTS, PRESTRESSING TENDONS AND ANCHORAGES	PERIODIC		SEC. 1.15	ART. 2.4, 3.4	ETT
D. WELDING OF REINFORCING BARS	CONTINUOUS		SEC. 2.1.9.7.2 3.3.3.4(b)		AWS-CWI
E. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)	PERIODIC	SEC. 2104.3 2104.4		ART. 1.8C 1.8D	ETT
F. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	CONTINUOUS			ART. 3.6B	
6. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE-					
A. GROUT SPACE IS CLEAN	PERIODIC			ART. 3.2D	ETT
B. PLACEMENT OF REINFORCEMENT AND CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES	PERIODIC		SEC 1.13	ART. 3.4	
C. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.	PERIODIC			ART. 2.6B	
D. CONSTRUCTION OF MORTAR JOINTS	PERIODIC			ART. 3.3B	ETT
7. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE-	CONTINUOUS			ART. 3.5	ETT
A. GROUTING OF PRESTRESSING BONDED TENDONS	CONTINUOUS			ART. 3.6C	
8. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED	PERIODIC		SEC 2105.2.2 2105.3	ART. 1.4	ETT

SCHEDULE OF SPECIAL INSPECTIONS

VERIFICATION/INSPECTION	STRUCTURAL STEEL INSPECTION			
IBC SECTION 1705.2, AISC 360-10	EXTENT CONTINUOUS, PERIODIC	COMMENTS		AGENT PE/GE, EIT OR ETT
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS-				
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	PERIODIC	AISC 360 SECTION A3.3 AND ALL APPLICABLE ASTM MATERIAL STANDARDS		ETT
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	PERIODIC			ETT
2. INSPECTION OF HIGH-STRENGTH BOLTING-				
A. SNUG-TIGHT JOINTS	PERIODIC	AISC 360 SECTION M2.5 IBC 1704.3.3		AWS/AISC-SSI
B. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION	PERIODIC			
C. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION.	CONTINUOUS			
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD- FORMED STEEL DECK				
A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360	PERIODIC	AISC 360 SECTION M5.5		ETT
B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	PERIODIC	ALL APPLICABLE ASTM MATERIAL STANDARDS		ETT
C. MANUFACTURER'S CERTIFIED TEST REPORTS	PERIODIC			ETT
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS				
A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	PERIODIC	AISC 360, SECTION A3.5 AND APPLICABLE AWS A5 DOCUMENTS		ETT
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	PERIODIC			ETT
5. INSPECTION OF WELDING				
A. STRUCTURAL STEEL AND COLD-FORMED STEEL DECK				
1) COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS	CONTINUOUS	AWS D1.1 IBC 1704.3.1		AWS-CWI
2) MULTIPASS FILLET WELDS	CONTINUOUS			
3) SINGLE-PASS FILLED WELDS ≤ 5/16"	CONTINUOUS			
4) PLUG AND SLOT WELDS	CONTINUOUS			
5) SINGLE-PASS FILLET WELDS ≤ 5/16"	PERIODIC			
6) FLOOR AND ROOF DECK WELDS	PERIODIC	AWS D1.3		AWS-CWI
B. REINFORCING STEEL				
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706	PERIODIC	AWS D1.4 ACI 318- SECTION 3.5.2		AWS-CWI
2) REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	CONTINUOUS			
3) SHEAR REINFORCEMENT	CONTINUOUS			
4) OTHER REINFORCING STEEL	PERIODIC			
6. INSPECTION OF STEEL FRAMED JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS-				
A. DETAILS SUCH AS BRACING AND STIFFENING	PERIODIC	IBC 1704.3.2		ETT
B. MEMBER LOCATIONS	PERIODIC			
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION	PERIODIC			

EARTHWORK

1. SITE PREPARATION FOR THE BUILDING PAD SHALL CONSIST OF THE REMOVAL OF EXISTING PAVEMENT, VEGETATION, ORGANIC MATTER AND ANY ADDITIONAL MATERIAL AS NECESSARY TO PROVIDE THE REQUIRED AMOUNT OF FILL UNDER THE BUILDING.
2. THE SUBGRADE SHALL BE PROOFROLLED WITH A HEAVY, RUBBER-TIRED VEHICLE (STATIC WEIGHT OF AT LEAST 20 TONS AND WITH TIRE PRESSURES OF AT LEAST 90 PSI). THE CONTRACTOR SHALL MAKE AT LEAST TWO COMPLETE PASSES OVER THE AREA WITH THE SECOND PASS PERPENDICULAR TO THE FIRST PASS. AREAS OF THE SUBGRADE THAT ARE OBSERVED TO BE SOFT OR WEAK SHALL BE OVEREXCAVATED AND REPLACED WITH PROPERLY COMPACTED SELECT FILL.
3. SUBGRADE SHALL THEN BE SCARIFIED AND MOISTURE CONDITIONED TO MATCH THE BUILDING PAD PERIMETER TO A SIX (6) INCH DEPTH AND THEN RECOMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN OPTIMUM AND +3 PERCENT OF THE OPTIMUM MOISTURE CONTENT. PROVIDE A MINIMUM OF FOUR (4) FIELD DENSITY TESTS ON THE SUBGRADE OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER.
4. SELECT FILL MATERIAL FOR THE BUILDING PAD SHALL BE AN INORGANIC SANDY CLAY WITH A LIQUID LIMIT BETWEEN 26 AND 40 AND PLASTICITY INDEX BETWEEN 12 AND 20. STRUCTURAL SELECT FILL PAD MATERIAL SHALL BE TESTED FOR ACCEPTABILITY AND A MOISTURE DENSITY CURVE SHALL BE ESTABLISHED.
5. SELECT FILL SHALL BE PLACED IN EIGHT INCH LOOSE LIFTS AND COMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN -3 AND +3 PERCENT OF THE OPTIMUM MOISTURE CONTENT FOR SELECT FILL. SELECT FILL MATERIAL SHALL EXTEND TO 5'-0" BEYOND THE BUILDING PERIMETER. PROVIDE A MINIMUM OF FOUR (4) FIELD DENSITY TESTS ON EACH LIFT OF SELECT FILL OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER.
6. SELECT FILL MATERIAL SHALL BE TESTED DURING PLACEMENT OF EACH LIFT FOR THE ATTERBERG LIMITS IN ACCORDANCE WITH ASTM D4318-98 METHOD B "STANDARD TEST METHOD FOR LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS" TO VERIFY THAT THE SELECT FILL MATERIAL IS IN ACCORDANCE WITH THE ORIGINALLY APPROVED SELECT FILL MATERIAL. PROVIDE A MINIMUM OF ONE (1) TEST PER LIFT OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER WITH A MAXIMUM OF TEN (10) PER LIFT.
7. CONTRACTOR SHALL MAINTAIN A CLEAN EXCAVATION THAT IS FREE OF WATER 100% OF THE TIME. CONTRACTOR SHALL PROVIDE PUMPS AS REQUIRED TO REMOVE ANY WATER AT ALL TIMES.
8. THE SITE SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING PAD DURING BUILDING PAD INSTALLATION AND WHEN THE BUILDING PAD AND BUILDING ARE COMPLETED.
9. PLUMBING AND UTILITY TRENCHES WITHIN THE BUILDING PAD SHALL HAVE PIPING BEDDED ON 6" MINIMUM OF CEMENT STABILIZED SAND WITH 4" MINIMUM ALL AROUND. BACKFILL IN UTILITY TRENCHES SHALL CONSIST OF COMPACTED SELECT FILL. PROVIDE A 1'-0" WIDE BENTONITE CLAY PLUG OR FAT CLAY (PI>50) FOR THE FULL DEPTH AND WIDTH OF THE UTILITY TRENCH TO A MINIMUM OF 1'-0" ABOVE THE BOTTOM OF THE FOUNDATION AT THE EXTERIOR FACE OF BUILDING FOUNDATIONS WHERE UTILITY TRENCHES ENTER THE BUILDING.
10. PROVIDE A MINIMUM TWELVE (12) INCH FAT CLAY CAP (PI>50) FOR A MINIMUM OF 5'-0" AROUND THE PERIMETER OF THE BUILDING. THE CAP SHALL EXTEND AS REQUIRED TO COVER THE LIMITS OF THE BUILDING PAD EXCAVATION AND SELECT FILL BUILDING PAD MATERIALS.

SITE DRAINAGE

1. GRADE THE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS AND SLABS. WATER SHALL NOT BE ALLOWED TO POND ADJACENT TO THE BUILDING FOUNDATIONS OR SLABS.
2. AS A MINIMUM REQUIREMENT, ALL DOWNSPOUTS FROM ROOF DRAINS AND GUTTERS SHALL BE COLLECTED AND PIPED AWAY FROM THE BUILDING. WHEN WATER IS NOT PIPED AWAY FROM THE BUILDING, DOWNSPOUTS SHALL DUMP ONTO A CAST IN PLACE 4" THICK X 3'-0" WIDE CONCRETE SWALE REINFORCED WITH #4 AT 12" ON CENTER EACH WAY AND EXTENDING 10'-0" OUT FROM THE BUILDING. REFER TO ARCHITECTURAL AND CIVIL FOR PAVING AND DRAINGAGE.
3. TREES AND VEGETATION SHALL NOT BE ALLOWED WITHIN A DISTANCE EQUAL TO THREE QUARTERS THEIR ULTIMATE HEIGHT AWAY FROM THE BUILDING.
4. IRRIGATE VEGETATION AND SOILS ADJACENT TO BUILDING (NO MORE THAN 15 MINUTES THREE TIMES A WEEK) ON AN AS NEEDED BASIS TO MAINTAIN UNIFORM SOIL MOISTURE CONDITIONS AROUND THE PERIMETER OF THE BUILDING FOLLOWING CONSTRUCTION.

FOUNDATIONS

1. PREPARED GRADE AREA UNDER ALL BUILDING SLABS AND GRADE BEAMS SHALL BE COVERED WITH A 15 MIL WATER VAPOR RETARDER MEETING THE REQUIREMENTS OF ASTM E 1745 (LATEST EDITION), CLASS A OR BETTER WITH MAXIMUM WATER PERMEANCE OF 0.01 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E96. THE WATER VAPOR RETARDER SHALL BE INSTALLED, LAPPED AND TAPED WITH MANUFACTURER'S APPROVED PRODUCT IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM E 1643 (LATEST EDITION). PENETRATIONS SHALL SEALED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
2. FOUNDATION DETAILING SHOWN ON THE DRAWINGS IS BASED ON A FOUNDATION DESIGN SPECIFIED IN THE SOIL REPORT BY QC LABORATORIES, INC., REPORT NO. 252I637, DATED JANUARY 28, 2025. THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT SHALL NOT SUPERSEDE THE REQUIREMENTS SHOWN ON THE DESIGN DRAWINGS OR IN THE SPECIFICATIONS WHEN THE REQUIREMENTS SHOWN ON THE DRAWINGS ARE GREATER THAN THOSE SHOWN IN THE GEOTECHNICAL REPORT. THE CONTRACTOR IS REQUIRED TO SECURE A COPY OF THE GEOTECHNICAL REPORT FROM THE OWNER AND TO HAVE A COPY ON THE JOB SITE AT ALL TIMES FOR HIS USE AND REFERENCE.
3. FOUNDATION DETAILING SHOWN ON THE DRAWINGS IS BASED ON A MINIMUM OF FOUR FEET OF SELECT FILL MATERIAL BENEATH THE FLOOR SLAB AND SHALL EXTEND TO 5'-0" BEYOND THE BUILDING PERIMETER.
4. FOUNDATION DETAILING SHOWN ON THE DRAWINGS IS BASED ON A MINIMUM OF ONE FOOT OF SELECT FILL MATERIAL BENEATH THE FLOOR SLAB AND SHALL EXTEND TO 5'-0" BEYOND THE BUILDING PERIMETER. PROVIDE ADDITIONAL SELECT FILL MATERIAL AS REQUIRED TO BRING THE SLAB UP TO THE FINISH FLOOR ELEVATION SHOWN IN THE CONSTRUCTION DOCUMENTS.
5. ALL BACKFILL FOR BURIED PIPES AND CONDUIT WITHIN THE BUILDING PAD AND EXTENDING OUT MINIMUM 5'-0" BEYOND THE BUILDING SHALL BE BACKFILLED WITH SELECT FILL BACKFILL. DO NOT USE SAND BACKFILL. A 2'-0" WIDE BENTONITE PLUG SHALL BE PROVIDED IN ALL UTILITY TRENCHES AT THE FACE OF THE BUILDING FOUNDATION. SEE DETAIL 2/S3.02 FOR DETAIL AT PIPE BUILDING ENTRY.
6. CONDUITS SHALL NOT BE PLACED IN THE CONCRETE SLAB. CONDUITS SHALL BE PLACED IN THE SELECT FILL MATERIAL BENEATH THE VAPOR RETARDER. ALL PENETRATIONS OF THE VAPOR RETARDER SHALL BE SEALED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS. CONDUIT TRENCHES WITHIN THE BUILDING PAD SHALL BE LIMITED TO A MAXIMUM WIDTH OF TWO FEET AND BE SPACED NO CLOSER THAN FOUR FEET CENTER TO CENTER. CONDUITS STACKED WITHIN A SINGLE TRENCH SHALL BE SEPARATED VERTICALLY BY TWO TIMES THE DIAMETER OF THE LARGEST CONDUIT OR 12 INCHES MINIMUM. COMPACTED SELECT FILL OR OTHER APPROPRIATE COMPACTED FILL MATERIAL SHALL BE USED BETWEEN STACKED CONDUITS.
7. THE FLOOR SLAB SUBGRADE SHALL BE PROPERLY COMPACTED, PROOF ROLLED AND SHALL BE FREE OF STANDING WATER, MUD AND FROZEN SOILS.
8. SLABS ON GROUND SHALL HAVE CONSTRUCTION JOINTS OR CRACK CONTROL JOINTS (REFER TO TYPICAL DETAILS) AT EACH COLUMN LINE AND IN EACH DIRECTION. ADDITIONAL CRACK CONTROL JOINTS SHALL BE PROVIDED SUCH THAT NO AREA BOUNDED BY CONSTRUCTION AND/OR CRACK CONTROL JOINTS CONTAINS MORE THAN 250 SQUARE FEET AND THE RESULTING ASPECT RATIO OF LONG SIDE TO SHORT SIDE DIMENSIONS OF THE BOUNDED SLAB AREA DOES NOT EXCEED 1.5 TO 1. CRACK CONTROL JOINTS SHALL BE MADE USING A "SOFT-CUT" CONCRETE SAW AS SOON AS THE SLAB WILL SUPPORT THE WEIGHT OF THE SAW AND OPERATOR WITHOUT DISTURBING THE FINAL FINISH. THIS SHOULD BE WITHIN THE FIRST SIX HOURS AFTER PLACEMENT. THE CRACK CONTROL JOINTS SHALL BE CUT A MAXIMUM WIDTH OF 1/8 INCH AND A MINIMUM DEPTH OF 1/3 THE SLAB THICKNESS. REFER TO THE TYPICAL DETAILS AND DRAWINGS FOR INFORMATION ON CONTROL JOINTS, CONSTRUCTION JOINTS, REINFORCING DETAILS, JOINT SEALANT, AND TYPICAL JOINT LAYOUT.
9. WHERE SLABS ARE TO RECEIVE SENSITIVE ARCHITECTURAL FLOOR FINISHES, ALL JOINTS IN THE SLAB CONSTRUCTION SHALL BE PLACED TO ALIGN WITH JOINTS IN THE FLOOR FINISHES.
10. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SHORING OF WALLS WHICH ARE ULTIMATELY SUPPORTED TOP AND BOTTOM. SUCH SHORING SHALL NOT BE REMOVED UNTIL ALL SUPPORTING ELEMENTS ARE IN PLACE, THE COMPACTION OF ALL BACKFILL AGAINST THE WALL HAS BEEN COMPLETED, AND THE CONCRETE IN THE WALLS AND SUPPORTING ELEMENTS HAS ATTAINED THE SPECIFIED 28 DAY COMPRESSIVE STRENGTH (Fc').
11. EXCAVATIONS FOR SPREAD FOOTING, COMBINED FOOTING, CONTINUOUS FOOTINGS AND/OR MAT FOUNDATIONS SHALL BE CLEANED AND HAND TAMPED TO A UNIFORM SURFACE. FOOTING EXCAVATIONS SHALL HAVE THE SIDE AND BOTTOM TEMPORARILY LINED WITH 6 MIL VAPOR BARRIER IF CONCRETE PLACEMENT DOES NOT OCCUR WITHIN 24 HOURS OF FOOTING EXCAVATION. SEAL SLABS MAY BE REQUIRED BASED ON GROUND WATER CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS, AND COST ASSOCIATED WITH ALL SEAL SLABS. REFER TO THE GEOTECHNICAL REPORT FOR GROUND WATER OR POTENTIAL PERCHED WATER CONDITIONS.
12. REINFORCEMENT PLACEMENT SEQUENCE FOR FOOTINGS AND MATS IS NOTED FOR MAJOR REINFORCEMENT BAR LAYERS ONLY. IN SPREAD FOOTINGS OR MATS, THE CONTRACTOR SHALL COORDINATE AND SEQUENCE ALL OTHER BAR PLACEMENTS AS REQUIRED TO CONFORM TO THE CONTRACT DOCUMENTS.
13. FOUNDATION CONDITIONS THAT DIFFER FROM THOSE NOTED IN THE CONTRACT DOCUMENTS OR AS DESCRIBED IN THE GEOTECHNICAL REPORT SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT, GEOTECHNICAL ENGINEER AND SER BEFORE FURTHER CONSTRUCTION IS ATTEMPTED.
14. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND SER AT LEAST 48 HOURS PRIOR TO PLACEMENT OF CONCRETE IN FOOTINGS.
15. ALL FOOTINGS SHALL BE CONSOLIDATED WITH A CONCRETE VIBRATOR AS PER THE REQUIREMENTS OF ACI 318 AND ACI 308R, LATEST EDITION.

TIMBER NOTES

1. TIMBER SHALL CONFORM TO NATIONAL DESIGN SPECIFICATION FOR STRESS GRADE LUMBER AND ITS FASTENINGS, NATIONAL FOREST PRODUCTS ASSOCIATES LATEST EDITION.
2. MATERIALS FOR FRAMING LUMBER SUBJECT TO BENDING STRESSES SUCH AS BEAMS, JOISTS, RAFTERS, HEADERS, AND OTHER HORIZONTAL MEMBERS SHALL BE SOUTHERN PINE NO. 2 KD (MC 15) CONSTRUCTION MINIMUM, UNLESS A HIGHER GRADE IS SHOWN ON THE DRAWINGS.
3. MATERIALS FOR STUD WALLS AND COLUMNS SHALL BE SOUTHERN PINE NO. 2 GRADE TIMBER OR EQUIVALENT DOUGLAS FIR-LARCH UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
4. MATERIALS MUST BE GRADE MARKED.
5. LAMINATED STRUCTURAL LUMBER (LSL), OTHER THAN GLULAM MEMBERS, SHALL BE PARALLEL STRAND LUMBER HAVING THE FOLLOWING MINIMUM DESIGN PROPERTIES:

MAXIMUM BENDING STRESS (Fb)	2,900 PSI
MODULUS OF ELASTICITY (E)	2,000,000 PSI
MAXIMUM COMPRESSIVE STRESS (Fc)	2,900 PSI
MAXIMUM SHEAR STRESS (Fv)	290 PSI

6. PLYWOOD ROOF DECKING SHALL BE APA RATED CD INTERIOR WITH EXTERIOR GLUE, THICKNESS AS SHOWN ON THE DRAWINGS. INSTALL PLYWOOD WITH FACE GRAIN ACROSS SUPPORTS. PROVIDE PLYWOOD SHEATHING CLIPS AT ALL FREE EDGES. PLYWOOD SPAN RATING SHALL BE 32/16. NAIL PLYWOOD TO FRAMING WITH 8d (10d) HOT-DIP GALVANIZED NAILS AS FOLLOWS:

ROOF ZONE NAILING PATTERNS:			
	FIRST 5' OF GABLED END	FIRST 4' FROM EDGE & RIDGE	ALL OTHERS
PANEL EDGES	4" O.C.	6" O.C.	6" O.C.
PANEL FIELD	6" O.C.	6" O.C.	12" O.C.

NAIL TO ALL SUPPORTS AT 4" O.C. FOR A 10'-0" SQUARE AREA AT CORNERS.

(USE 8d RING SHANK HOT-DIP GALVANIZED NAILS WHEN MEAN ROOF HEIGHT EXCEEDS 25 FEET)

7. PLYWOOD FLOOR DECKING SHALL BE APA RATED CD INTERIOR WITH EXTERIOR GLUE, THICKNESS AS SHOWN ON THE DRAWINGS. INSTALL PLYWOOD WITH FACE GRAIN ACROSS SUPPORTS. PLYWOOD SPAN RATING SHALL BE 48/24. NAIL PLYWOOD 6" O.C. ALONG PANEL EDGES AND 10" O.C. AT INTERMEDIATE SUPPORTS AND BLOCKING WITH 10d HOT-DIP GALVANIZED MINIMUM NAILS.
8. PLYWOOD WALL SHEATHING SHALL BE APA RATED CD INTERIOR WITH EXTERIOR GLUE, THICKNESSAS SHOWN ON THE DRAWINGS. SPAN RATING SHALL BE 32/16. NAIL PLYWOOD AT 4" O.C. ALONG PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS AND BLOCKING WITH 10d MINIMUM NAILS UNLESS SHOWN OTHERWISE ON THE DRAWINGS. EXTERIOR GYPSUM WALL SHEATHING (SEE ARCHITECTURAL DRAWINGS) SHALL BE NAILED AT 4" O.C. ALONG PANEL EDGES AND INTERMEDIATE SUPPORTS WITH NO. 11, 1 3/4" LONG, 7/16" HEAD HOT-DIP GALVANIZED NAILS MINIMUM.
9. DOUBLE JOISTS UNDER ALL PARTITIONS PARALLEL WITH JOISTS. LAP JOISTS 4 INCHES MINIMUM OVER DROPPED BEAMS AND BEARING PARTITIONS.
10. UNLESS OTHERWISE NOTED ON THE PLANS PROVIDE FIVE JOISTS DIRECTLY BELOW ALL LOAD BEARING PARTITIONS WHEN FLOOR JOISTS ARE PARALLEL TO PARTITIONS. WHEN LOAD BEARING PARTITIONS ARE PERPENDICULAR TO JOISTS USE DOUBLE JOISTS AT EACH LOCATION WHERE PARTITION CROSSES JOISTS, AND SOLID DOUBLE BLOCKING CONTINUOUSLY UNDER WALL. DOUBLE JOISTS EACH SIDE OF CHASE WALLS PARALLEL WITH JOISTS AND PROVIDE 2x SOLID BLOCKING AT48 INCHES ON CENTER BETWEEN DOUBLE JOISTS.
11. BRIDGING BETWEEN JOISTS AND RAFTERS SHALL BE 1x4 WOOD OR 16 GAGE HOT-DIP GALVANIZED STEEL CROSS-BRIDGING OR 2x SOLID BRIDGING AT ALL BEARING LOCATIONS AND AT 8 FOOT MAXIMUM INTERVALS.
12. BEAMS MADE UP OF MULTIPLE 2x PIECES SHALL NOT BE SPLICED EXCEPT OVER SUPPORTS. ALL MULTI PLY MEMBER BEAMS SHALL BE ATTACHED TOGETHER BY GLUEING AND NAILING WITH 10d NAILS AT 6" O.C. TOP AND BOTTOM FOR EACH PLY. FLITCH BEAMS WITH STEEL PLATES SHALL BE BOLTED TOGETHER WITH 1/2" DIAMETER HOT-DIP GALVANIZED A307 THRU BOLTS AT 1'-0" O.C. STAGGERED FROM TOP TO BOTTOM.
13. PROVIDE TRIPLE STUDS AT ALL CORNERS AND AT ALL BEAM BEARINGS THROUGH TO FOUNDATION UNLESS NOTED OTHERWISE. PROVIDE STUDS AT BEAM BEARINGS TO MATCH BEAM WIDTH WHERE BEAM WIDTH EXCEEDS 4 1/2 INCHES.
14. ANCHOR WOOD SILLS (PRESSURE TREATED) TO CONCRETE WITH 1/2" DIA. x 9" LONG HOT-DIP GALVANIZED, HOOKED ANCHOR BOLTS WITH 9/16" WIDE TYPE "B" HOT-DIP GALVANIZEDWASHERS EMBEDDED 7" MINIMUM AT 48 INCHES MAX. O.C. AT CORNERS AND DOOR OPENINGS PROVIDE ONE ANCHOR BOLT AT 8 INCHES IN EACH DIRECTION FROM CORNER. PROVIDE TWO BOLTS MINIMUM PER PIECE OF SILL PLATE.
15. HOLES NO GREATER THAN 1/3 THE DEPTH OF THE JOIST MAY BE CUT HORIZONTALLY THRU JOISTS AND SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM OF THE JOIST.
16. PREFABRICATED TIMBER TRUSSES SHALL BE FABRICATED BY A CERTIFIED TIMBER TRUSS MANUFACTURER. MANUFACTURERS FOR CITY OF HOUSTON JOBS SHALL BE REGISTERED WITH THE CITY.
17. TRUSSES SHALL BE FABRICATED WITH WOOD CHORDS AND WEBS IN ACCORDANCE WITH THE NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION, ANSI/TPI 1, LATEST EDITION, BY THE TRUSS PLATE INSTITUTE.
18. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY BRACING FOR TIMBER TRUSSES. BRACING SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS FOR BRACING WOOD TRUSSES, PUBLICATION HIB, LATEST EDITION, BY THE TRUSS PLATE INSTITUTE.
19. TRUSS MANUFACTURER SHALL SUBMIT DRAWINGS FOR APPROVAL SHOWING ALL MEMBER FORCES, SIZES AND CONNECTORS. DRAWINGS SHALL BE SEALED BY A LICENSED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. ALL TEMPORARY AND PERMANENT BRACING OF THE TRUSSES SHALL BE DESIGNED AND DETAILED BY A LICENSED ENGINEER. SUBMIT SHOP DRAWINGS TO THE CITY OF HOUSTON. CHANGES IN THE TRUSS LAYOUT SHOWN ON THE CONTRACT DRAWINGS BY THE TRUSS MANUFACTURER WILL REQUIRE CHANGES IN THE LOCATIONS AND QUANTITIES OF ROOF TRUSS AND ROOF GIRDER TRUSS UPLIFT ANCHORS AND HOLDOWNS AND SHEARWALL SIZES, LOCATIONS AND HOLDOWNS. GENERAL CONTRACTOR SHALL COORDINATE ANY CHANGES IN THE TRUSS LAYOUT WITH THE ENGINEER OF RECORD. ADDITIONAL DESIGN SERVICES DUE TO THESE CHANGES WILL BE CHARGED TO THE GENERAL CONTRACTOR.
20. TYPICAL TRUSS LOADING IS SHOWN ON THE DRAWINGS. THE MANUFACTURER SHALL EXAMINE THE DRAWINGS FOR SPECIAL CONDITIONS AND/OR LOADS NOT SHOWN AND PROVIDE FOR SUCH IN THE DESIGN.
21. AT BUILDING ENDS, SPECIAL GABLE-END TRUSSES SHALL BE USED. TRUSSES SHALL BE DESIGNED AND FABRICATED WITH VERTICAL STUDS NO MORE THAN 16 INCHES ON CENTER. NARROW FACE OF STUD SHALL BE PARALLEL TO FACE OF EXTERIOR WALL OR NARROW FACE OF STUD MAY BE PERPENDICULAR TO EXTERIOR FACE OF BUILDING. STUDS SHALL BRACED AS REQUIRED FOR THE DESIGN WIND LOAD. AT GABLE END WALLS, STUDS SHALL BE BALLOON FRAMED TO THE BOTTOM OFTHE TRUSS.
22. PLANS AND DETAILS FOR FRAMING ARE A SCHEMATIC REPRESENTATION OF THE FRAMING AT VARIOUS LOCATIONS AND CONDITIONS ON THIS PROJECT. THE CONTRACTOR SHALL NOT SCALE OR COUNT FRAMING MEMBERS SHOWN AS A SUBSTITUTE FOR SHOP DRAWINGS AND AN ACCURATE QUANTITY TAKEOFF. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL FRAMING NECESSARY TO COMPLETELY FRAME THE PROJECT AND PROVIDE FOR ALL CONDITIONS SHOWN ON THE ARCHITECTURAL DRAWINGS.
23. JOIST AND RAFTER HANGERS, TIES, HOLDDOWNS AND OTHER PRE-ENGINEERED CONNECTORS SHALL BE "SIMPSON STRONG-TIE" OR APPROVED EQUAL. SIZE AND USAGE SHALL BE AS SHOWN ON THE DRAWINGS, SPECIFIED IN THESE NOTES AND AS RECOMMENDED BY THE MANUFACTURER. ALL CONNECTORS SHALL BE POST HOT-DIP GALVANIZED COATED AFTER FABRICATION OR STAINLESS STEEL.
24. INSTALL A SIMPSON "H1Q" OR TWO (2)-"H2.5A" METAL TIES AT THE CONNECTION BETWEEN ALL RAFTERS OR TRUSS ENDS WHERE THEY BEAR ON A WOOD SUPPORT FOR 10'-0" IN ANY DIRECTION FROM BUILDING CORNERS. DOUBLED UP CLIPS SHALL BE INSTALLED DIAGONALLY ACROSS FROM EACH OTHER ON OPPOSITE SIDES OF THE TOP PLATE. INSTALL A SIMPSON "H2.5A" AT ALL OTHER TRUSS ENDS. METAL ANCHORS AT ROOF GIRDER TRUSS LOCATIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE TABLE PROVIDED ON THE DRAWINGS. SIZE AND USAGE SHALL BE VERIFIED BY THE STRUCTURAL ENGINEER.
25. INSTALL A SIMPSON "H2.5A" METAL TIE AT THE TOP AND A SIMPSON "H3" METAL TIE AT THE BOTTOM OF EVERY EXTERIOR STUD WHERE THE STUD JOINS THE TOP PLATE AND SILL PLATE, WHERE AN "H2.5A" METAL TIE IS REQUIRED AT TRUSS ENDS. INSTALL TWO (2)- "H3" METAL TIES AT THE BOTTOM OF EVERY EXTERIOR STUD WHERE THE STUD JOINS THE SILL PLATE, WHERE "H1Q" TIES IS REQUIRED AT TRUSS ENDS. DOUBLED UP CLIPS SHALL BE INSTALLED DIAGONALLY ACROSS FROM EACH OTHER ON OPPOSITE SIDES OF THE TOP PLATE OR BOTTOM SILL PLATE.
26. ALL TIMBER OUTSIDE THE BUILDING ENVELOPE SHALL BE PRESSURE TREATED. ALL CONNECTIONS OUTSIDE THE BUILDING ENVELOPE SHALL BE MADE WITH HOT-DIP GALVANIZED BOLTS OR NAILS.

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Project Number : 8972

ISSUED FOR CLIENT APPROVAL	DATE
ISSUED FOR BIDDING	04/01/2026
ISSUED FOR PERMIT	04/01/2026
ISSUED FOR CONSTRUCTION	

REVISIONS

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STATE OF TEXAS
BRITT GARDNER
90958
LICENSED
PROFESSIONAL ENGINEER
04/01/2026

DRAWING TITLE
GENERAL NOTES

DRAWN BY	AD
CHECKED BY	BG
APPROVED BY	BG

SHEET NO.
S0.01

CONCRETE

1. ALL CONCRETE REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, EXCEPT WHERE NOTED. NO. 10 THROUGH NO. 18 BARS SHALL CONFORM TO ASTM A615, GRADE 75. DEFORMED BAR ANCHORS SHALL CONFORM TO ASTM A496, GR 70. ALL BARS SHALL BE NEW OR RECYCLED DOMESTIC BILLET STEEL OF A DOMESTIC MANUFACTURER.
2. CONCRETE IN THE FOLLOWING AREAS SHALL HAVE SAND AND CRUSHED CARBONATE AGGREGATE CONFORMING TO ASTM C33 FOR NORMAL WEIGHT CONCRETE AND LIGHT WEIGHT AGGREGATES CONFORMING TO ASTM C330, TYPE I PORTLAND CEMENT CONFORMING TO ASTM C150, AND THE FOLLOWING DESIGNATED COMPRESSIVE STRENGTH (f'c) IN 28 DAYS:

CONCRETE USE OR CLASS	MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'c)	MAXIMUM WATER CEMENT RATIO	SLUMP (INCHES)
FOOTINGS	3000 PSI	0.50	5 TO 8
SLABS ON GROUND SEE NOTE 4	4000 PSI	0.45	4 TO 6
ALL OTHER CONCRETE	3000 PSI	0.50	4 TO 6
SLUMP SHALL BE MEASURED FROM SAMPLES TAKEN AT THE POINT OF DISCHARGE UNLESS AGREED TO IN WRITING PRIOR TO CONCRETE PLACEMENT			

NOTE: CONCRETE SUPPLIER SHALL BE AWARE OF CEMENTS THAT CAN CAUSE LATE ETTRINGITE FORMATION IN THE CEMENT PASTE AND BE PREPARED TO SHOW THAT THE CEMENTS USED WILL NOT CAUSE THIS PROBLEM.

3. FLY ASH MAY BE USED AS A POZZOLAN TO REPLACE A PORTION OF THE PORTLAND CEMENT IN A CONCRETE MIXTURE, SUBJECT TO THE APPROVAL OF THE ARCHITECT AND SER. FLY ASH, WHEN USED, SHALL CONFORM TO ASTM C618 TYPE 'C'. CONCRETE MIXTURES CONTAINING FLY ASH SHALL BE PROPORTIONED TO ACCOUNT FOR THE PROPERTIES OF THE SPECIFIC FLY ASH AND TO ACCOUNT FOR THE SPECIFIC PROPERTIES OF THE FLY ASH CONCRETE THUS RESULTING, INCLUDING BUT NOT LIMITED TO WATER CEMENT RATION AND MINIMUM 28 DAY COMPRESSIVE STRENGTH. THE RATIO OF THE AMOUNT BY VOLUME OF FLY ASH TO THE TOTAL AMOUNT BY VOLUME OF CEMENTITIOUS MATERIAL (INCLUDING THE FLY ASH) SHALL NOT EXCEED 25 PERCENT.
4. FLY ASH IS NOT PERMITTED IN SLABS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT AND SER.
5. AIR ENTRAINMENT IS REQUIRED ONLY IN HARD ROCK CONCRETE PERMANENTLY EXPOSED TO WEATHER CONDITIONS. WHERE LIGHTWEIGHT CONCRETE IS SPECIFIED, AIR ENTRAINMENT IS REQUIRED FOR ALL EXPOSURE CONDITIONS. PERCENT AIR ENTRAINMENT LISTED IS PLUS/MINUS 1.5%. DO NOT AIR-ENTRAIN INTERIOR FLOOR SLABS THAT RECEIVE HARD TROWEL FINISH.
6. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS; SEE SEC. 7.7 ACI 318, LATEST EDITION FOR CONDITIONS NOT NOTED. PROVIDE CHAIR SUPPORTS (AZTEC CASTLE CHAIR, OCM CRADLE CHAIRS, WHC SERIES 'E' OR EQUAL) TO ADEQUATELY SUPPORT BARS FOR PROPER CLEARANCE AS RECOMMENDED BY THE AMERICAN CONCRETE INSTITUTE AND THE CONCRETE REINFORCING STEEL INSTITUTE. SLAB ON GRADE REINFORCEMENT SHALL BE SUPPORTED AT 45-INCH MAXIMUM INTERVALS OR EVERY THIRD BAR. UTILITY OR CONCRETE BRICKS ARE NOT ALLOWED AS REINFORCING SUPPORTS.

MINIMUM CONCRETE COVER REQUIREMENTS	
LOCATION	MINIMUM COVER
FOOTINGS	3 INCHES
GRADE BEAMS	3 INCHES BOTTOM 2 INCHES SIDES — FORMED SURFACE 3 INCHES SIDES — EARTH FORMED 1 — 1/2 INCHES TOP
SLAB ON GROUND	1 INCH TOP

7. NO HORIZONTAL JOINTS WILL BE PERMITTED IN CONCRETE EXCEPT WHERE THEY NORMALLY OCCUR OR WHERE NOTED. NO JOINTS BETWEEN PILASTERS AND GRADE BEAM THAT ARE MEANT TO BE MONOLITHIC. VERTICAL JOINTS SHALL OCCUR AT CENTER SPANS OR AT LOCATIONS APPROVED BY THE STRUCTURAL ENGINEER.
8. CONSTRUCTION JOINTS BETWEEN PIERS AND PIER CAPS OR GRADE BEAMS, FOOTINGS AND WALLS OR COLUMNS, OR WALLS, COLUMNS, BEAMS AND THE FLOOR SYSTEM THEY SHALL SUPPORT SHALL BE PREPARED BY ROUGHENING THE SURFACE CONTACT SURFACE TO A FULL AMPLITUDE ON 1/4" LEAVING THE CONTACT SURFACE CLEAN AND FREE OF ALL LAITANCE.
9. DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI PUBLICATION 315, LATEST EDITION "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" AND ACI SP -66 "DETAILING MANUAL". PLACING OF REINFORCING BARS SHALL CONFORM TO THE RECOMMENDATIONS OF ACI 315R "MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES" AND CRSI "MANUAL OF STANDARD PRACTICE". ALL HOOKED BARS SHOWN IN THE DETAILS SHALL HAVE STANDARD HOOKS UNLESS NOTED OTHERWISE.
10. REINFORCING BARS SHALL NOT BE WELDED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER. REINFORCING STEEL THAT REQUIRES WELDING SHALL CONFORM TO ASTM A706, WITH GRADES AS SHOWN ABOVE.
11. UNLESS BARS ARE SPECIFICALLY SHOWN IN THE BAR BENDING DIAGRAMS ON THE SCHEDULES, PROVIDE BARS AS FOLLOWS:
    A) PROVIDE STANDARD 90 DEGREE HOOK ON TOP BARS AT CANTILEVER ENDS.
    B) SPLICE BOTTOM BARS DIRECTLY OVER MEMBER SUPPORTS, UNLESS NOTED OTHERWISE.
    C) SPLICE TOP AND INTERMEDIATE BARS AT THE CENTER LINE BETWEEN MEMBER SUPPORTS, UNLESS NOTED OTHERWISE.
    D) SPLICE VERTICAL BARS IN WALLS ONLY AT FLOOR LINES, UNLESS NOTED OTHERWISE. HORIZONTAL BARS SHALL BE SPLICED AS SPECIFIED FOR TOP, BOTTOM, AND INTERMEDIATE BARS OF BEAMS.
    E) CENTER BARS NOTED AS "AT SUPT'S." OVER MEMBER SUPPORTS, AND CENTER BARS NOTES AS "BTWN. SUPT'S," BETWEEN SUPPORTS.
    F) PLACE BARS NOTED AS "2ND LAYER" BELOW THE PRIMARY TOP BARS (OR ABOVE THE PRIMARY BOTTOM BARS) AND PROVIDE #11 SPACER BARS PLACED AT INTERVALS OF 4'-0" BETWEEN THE TWO LAYERS OF BARS.
    G) SPLICE VERTICAL BARS IN COLUMNS ONLY AT FLOOR LINES, UNLESS NOTED OTHERWISE. COLUMN BAR SPLICES SHALL BE AS SHOWN IN THE COLUMN SCHEDULE.
    H) PROVIDE CORNER BARS FOR EACH HORIZONTAL BAR AT THE INSIDE AND OUTSIDE FACES OF INTERSECTING BEAMS OR WALLS. REFER TO CORNER BAR DETAILS IN THE TYPICAL DETAILS.
    I) REFER TO THE COLUMN REINFORCING DIAGRAMS FOR ADDITIONAL TIES ABOVE AND BELOW THE FLOOR FRAMING MEMBERS.
12. BARS SHOWN IN THE SCHEDULE TO HOOK AT DISCONTINUOUS ENDS SHALL HAVE THE HOOK PLACED HORIZONTALLY AT EXTERIOR CORNERS.
13. PROVIDE NO. 3 DOWELS X 2'-0" AT 1'-6" ON CENTER, WITH A 90 DEGREE HOOK AT ALL EDGES OF CONCRETE SLABS, UNLESS DETAILED OTHERWISE.
14. PROVIDE FOUNDATION DOWELS TO MATCH MASONRY WALL REINFORCEMENT. DOWELS SHALL EXTEND INTO THE CONCRETE AND CMU PER THE LAP SCHEDULES.
15. ALL CONTINUOUS REINFORCEMENT SHALL LAP 40 BAR DIAMETERS AT SPLICES. PROVIDE (1) NO. 6 x 6'-0" TOP AND BOTTOM (TWO 36" LEGS WITH 90 DEGREE BEND) AT EACH FACE OF GRADE BEAMS AT CORNERS AND INTERSECTIONS, AND AT 18" ON CENTER VERTICALLY AT WALLS.
16. PROVIDE (1) NO. 4 BAR x 4'-0" FOR ELEVATED SLABS AND (2) NO. 5 BARS x 4'-0" FOR SLAB ON GROUND AT ALL RE-ENTRANT CORNERS. PROVIDE (1) NO. 4 BAR x 4'-0" AROUND ALL RECTANGULAR OPENINGS OR COLUMN BLOCK OUTS UNLESS NOTED OTHERWISE. FOR ELEVATED SLABS, PLACE THE DIAGONAL BARS WITH 1 INCH OF CLEARANCE FROM TOP AND THE SIDES OF THE SLAB AT THE CORNERS. FOR SLAB ON GRADE, PLACE THE BARS AT MID DEPTH OR BELOW THE REINFORCING MAT AND 3 INCHES CLEAR FROM THE CORNER.
17. CONDUITS ARE NOT ALLOWED IN SLABS, BEAMS, WALLS OR COLUMNS. ALL CONDUITS SHALL BE SUSPENDED FROM OR ATTACHED TO THE CONCRETE STRUCTURE.
18. PROVIDE SLEEVES, MECHANICAL OPENINGS, CONDUITS, PIPES, RECESSES, DEPRESSIONS, CURBS AND ALL EMBEDDED ITEMS AS SHOWN ON THE ARCHITECTURAL AND MECHANICAL DRAWINGS OR AS REQUIRED BY EQUIPMENT MANUFACTURERS. MINIMUM CONCRETE BETWEEN SLEEVES SHALL BE 6". SHOP DRAWINGS SHALL CLEARLY INDICATE THE INSTALLATION OF THESE ITEMS. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED TO 3/4"x3/4" MINIMUM UNLESS NOTED OTHERWISE. DO NOT PROVIDE CHAMFERS AT INSIDE FACE OF OVERHEAD DOORS OR AT STOREFRONT OPENINGS.
19. BESIDES FOLLOWING ARTICLE 6.3 OF ACI 318 FOR EMBEDDED ITEMS FOLLOWING REQUIREMENTS SHALL BE MET:
    A) THE MINIMUM CLEAR DISTANCE BETWEEN CONDUITS AND PIPES SHALL BE 6".
    B) NONE PERMITTED IN COLUMNS WITHOUT PRIOR APPROVAL
20. ALL CONSTRUCTION JOINTS IN BEAMS AND WALLS SHALL BE PROVIDED WITH SHEAR KEYS AS SHOWN IN THE DETAILS.
21. SLEEVES PASSING HORIZONTALLY THROUGH GRADE BEAMS:
    A) LOCATE AT MIDDLE THIRD OF BEAM SPAN - MINIMUM 6" AWAY FROM AN INTERIOR MEMBER.
    B) LOCATE AT MIDDLE THIRD OF BEAM DEPTH.
    C) MAXIMUM DIAMETER OF SLEEVE TO BE ONE THIRD OF BEAM DEPTH OR 8" (WHICHEVER IS LESS).
    D) SPACING TO BE AT LEAST THREE SLEEVE DIAMETERS OR 6" (WHICHEVER IS GREATER).
    E) ADD ONE ADDITIONAL SCHEDULED STIRRUP ON EITHER SIDE OF THE SLEEVE. ADD (2) #5 x 5'-0" TOP AND BOTTOM CENTERED AT SLEEVE.
    F) NO SLEEVES LONGITUDINALLY IN BEAMS. PASS SLEEVES ONLY AT RIGHT ANGLES TO BEAMS.
22. ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE, ACI 301, LATEST EDITION.
23. ALL CONCRETE SHALL BE CONSOLIDATED WITH A CONCRETE VIBRATOR AS PER THE REQUIREMENTS OF ACI 318 AND ACI 308R, LATEST EDITION.
24. HOT WEATHER CONCRETING SHALL CONFORM TO ACI305 AND COLD WEATHER CONCRETING SHALL CONFORM TO ACI 306.
25. ALL BASE PLATES AND ANCHOR RODS SHALL BE PROTECTED WITH 3" (MIN.) OF CONCRETE. ANCHOR RODS SHALL BE FABRICATED FROM FULL BODIED STEEL RODS CONFORMING TO ASTM F1554 GR 36, WASHERS CONFORMING TO ASTM F884 AND NUTS CONFORMING TO ASTM A194 OR A563 AND HAVING THE SAME DIAMETER AS THE BOLT DIAMETER. BOLTS SHALL BE SET USING RIGID TEMPLATES.

POST INSTALLED ANCHORS

ANCHOR MATERIALS

1. MECHANICAL ANCHORS SHALL BE TESTED AND ASSESSED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ACI 355.2 QUALIFICATION OF POST-INSTALLED MECHANICAL ANCHORS IN CONCRETE AND COMMENTARY. ACCEPTABLE MECHANICAL ANCHORS ARE AS FOLLOWS:

   EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ2

ANCHOR DIAMETER	MINIMUM EMBEDMENT
1/2 INCH	3-1/4"
5/8 INCH	4"
3/4 INCH	4-3/4"

2. ADHESIVE ANCHOR SYSTEMS SHALL BE TESTED AND ASSESSED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ACI 355.4 QUALIFICATION OF POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE (355.4) AND COMMENTARY. ACCEPTABLE ADHESIVE ANCHORS ARE AS FOLLOWS:

   CHEMICAL ADHESIVE ANCHORS FOR CONCRETE SHALL BE HILTI HIT-HY 100 SYSTEM

ANCHOR DIAMETER OR BAR SIZE	MINIMUM EMBEDMENT
NO. 3 BAR	4"
1/2 INCH OR NO. 4 BAR	4-1/2"
5/8 INCH OR NO. 5 BAR	6"
3/4 INCH OR NO. 6 BAR	7"
7/8 INCH OR NO. 7 BAR	8"

   CHEMICAL ADHESIVE ANCHORS FOR MASONRY SHALL BE HILTI HIT-HY 100 SYSTEM

ANCHOR DIAMETER OR BAR SIZE	MINIMUM EMBEDMENT
NO. 3 BAR	4"
1/2 INCH OR NO. 4 BAR	4-1/2"
5/8 INCH OR NO. 5 BAR	5-3/4"
3/4 INCH OR NO. 6 BAR	6-3/4"

3. AN APPROVED EQUAL TESTED AND ASSESSED IN ACCORDANCE WITH ACI 355.4 AND PROVIDING THE MINIMUM BOND STRESS VALUES BELOW FOR THE SPECIFIED CONDITIONS. BULK-MIXED (E.G., BUCKET-MIXED) ADHESIVES ARE NOT PERMITTED.
4. ADHESIVE ANCHORS SELECTED FROM PARAGRAPH ABOVE SHALL BE SUPPLIED AS AN ENTIRE SYSTEM. THE SYSTEM SHALL INCLUDE, BUT IS NOT LIMITED TO, MANUFACTURERS PRINTED INSTALLATION INSTRUCTIONS (MPII) AS SUPPLIED WITH THE ADHESIVE, ADHESIVE CARTRIDGE, MIXING NOZZLE, EXTENSION TUBE, DISPENSER, AND ALL REQUIRED EQUIPMENT FOR PROPERLY CLEANING THE DRILLED HOLE.
5. ANCHOR DESIGN SHALL BE IN ACCORDANCE WITH CHAPTER 17 OF ACI 318 MOST RECENT EDITION. FOR ADHESIVE ANCHORS, THE FOLLOWING MINIMUM DESIGN VALUES FOR BOND STRESS WERE ASSUMED FOR THE DESIGN USING THE ABOVE ADHESIVE ANCHOR ASSEMBLIES FOR IMPACT- OR ROCK-DRILLED HOLES:
   A) CRACKED CONCRETE BOND STRESS:
      CR = 2500 PSI
   B) UNCRACKED CONCRETE BOND STRESS:
      UNCR = 3000 PSI
6. ALL-THREADED ROD (EYEBOLTS, THREADED STUDS, INTERNAL THREADED PARTS) TO BE USED IN ADHESIVE ANCHOR ASSEMBLIES SHALL CONFORM TO ASTM A36, A193 (GRADE B7), A307, B348 (BD), F1554 OR OTHER APPROVED ANCHOR ASSEMBLY TYPES. (STAINLESS STEEL ANCHOR RODS SHALL BE AISI TYPE 304 OR TYPE 316.) THREADS SHALL BE UNC COARSE THREADS, UNLESS NOTED OTHER-WISE.
7. COMPATIBLE NUTS AND WASHERS SHALL BE FURNISHED WITH THE ALL-THREAD ROD AND CONSIDERED PART OF THE ASSEMBLY. THE COST OF THE HARDWARE SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLED ADHESIVE ANCHOR ASSEMBLY.
8. NUTS, WASHERS, AND OTHER HARDWARE USED WITH AN ALL-THREADED BAR ADHESIVE ANCHOR SYSTEM OR WITH A MECHANICAL EXPANSION ANCHOR SHALL HAVE A MATERIAL OR AN ALLOY DESIGNATION THAT IS COMPATIBLE WITH THE ANCHOR ROD/ALLOY. GALVANIZED ASSEMBLIES SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. ELECTROPLATE GALVANIZING IS NOT ACCEPTABLE. DISSIMILAR METAL ASSEMBLIES SHALL BE SEPARATED BY NYLON, EPDM, OR OTHER APPROVED NON-METALLIC WASHERS.
9. REINFORCING BARS TO BE USED IN ADHESIVE ANCHOR ASSEMBLIES (E.G., AS ANCHOR REINFORCEMENT) OR AS POST-INSTALLED REINFORCING SHALL CONFORM TO ASTM A615, A706, A995, OR A1035.

GENERAL INSTALLATION GUIDELINES

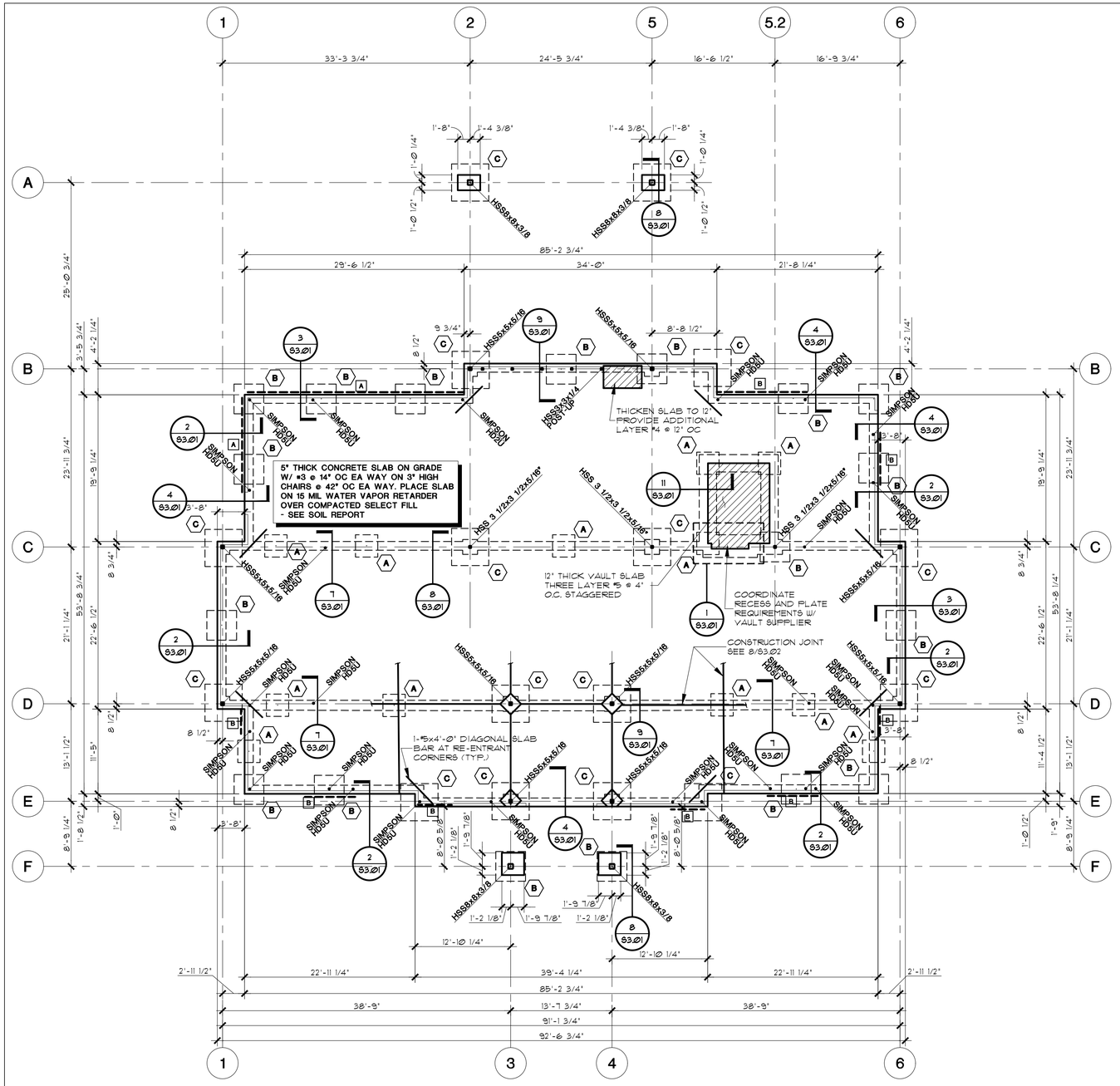
1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 2,500 PSI AT THE TIME OF ADHESIVE ANCHOR INSTALLATION.
2. CONCRETE AT TIME OF ADHESIVE ANCHOR INSTALLATION SHALL HAVE A MINIMUM AGE OF 21 DAYS, FOR INSTALLATION OF ADHESIVE ANCHORS IN CONCRETE HAVING AN AGE LESS THAN 21 DAYS, TESTS SHALL BE CONDUCTED TO VERIFY THE PERFORMANCE OF THE PRODUCT IN ACCORDANCE WITH ACI 355.4.
3. THE CONCRETE TEMPERATURE AT THE TIME OF ADHESIVE ANCHOR INSTALLATION SHALL BE AT LEAST 50°F UNLESS TESTING HAS BEEN CONDUCTED IN ACCORDANCE WITH RECOGNIZED CRITERIA TO VERIFY PERFORMANCE IN CONCRETE AT LOWER TEMPERATURES.
4. EMBEDMENT DEPTH AND MINIMUM ANCHOR PROJECTION OF THE ANCHOR ELEMENT FROM THE CONCRETE SURFACE SHALL BE AS SHOWN ON THE DRAWING OR DETAIL FOR THE PARTICULAR ANCHOR OR GROUP OF ANCHORS BEING INSTALLED.
5. ADHESIVE CARTRIDGES SHALL BE STORED UNDER CONDITIONS IN COMPLIANCE WITH MANUFACTURER RECOMMENDATIONS REGARDING TEMPERATURE, EXPOSURE TO SUNLIGHT, ETC. AND EVIDENCE OF COMPLIANCE SHALL BE MADE AVAILABLE UPON REQUEST. THE USE OF EXPIRED ADHESIVE, AS INDICATED BY THE EXPIRATION DATE ON THE CARTRIDGE, IS PROHIBITED.

INSTALLATION

1. ADHESIVE ANCHORS SHALL BE INSTALLED BY QUALIFIED PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. BOTH POST-INSTALLED EXPANSION AND ADHESIVE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). ADHESIVE ANCHORS WITH DIAMETER GREATER THAN 3/8-INCH INSTALLED IN ORIENTATIONS FROM HORIZONTAL TO VERTICAL SHALL EMPLOY A PISTON PLUG FOR THE ADHESIVE INJECTION.
2. INSTALLATION OF ADHESIVE ANCHORS IN ORIENTATIONS FROM HORIZONTAL TO VERTICAL TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY THE ACI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR EQUIVALENT. THESE ANCHORS ARE DESIGNATED WITH A (CERT) AFTER THE ANCHOR CALLOUT. NOTE: SOME DOWN-HOLE INSTALLATIONS SHOWN ON DRAWINGS SUPPORT SUSTAINED TENSION LOADS AND ARE SO DESIGNATED WITH A (CERT) AFTER THE ANCHOR CALLOUT.
3. THE INSTALLER'S QUALIFICATIONS SHALL BE SUBMITTED AND APPROVED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
4. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT REQUIRED TO INSTALL THE EXPANSION AND/OR ADHESIVE ANCHOR INCLUDING, BUT NOT LIMITED TO, DRILLS, SETTING TOOLS, CLEAN OUT BRUSHES, BLOWOUT BULBS, OIL FREE COMPRESSED AIR, VACUUMS, WRENCHES, ETC.
5. UNLESS OTHERWISE SPECIFIED, ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH A ROTARY IMPACT HAMMER DRILL OR, WHERE NOT OTHERWISE PRESCRIBED, A ROCK DRILL. WHERE SPECIFIED AND WHERE PERMITTED BY THE MPII, HOLES MAY BE DRILLED WITH A DIAMOND CORE DRILL. IN ALL CASES, THE BIT DIAMETER SHALL BE IN ACCORDANCE WITH THE MPII.
6. ANCHOR HOLES SHALL BE THOROUGHLY CLEANED IN ACCORDANCE WITH THE PROCEDURES SPECIFIED IN THE MPII PRIOR TO ADHESIVE INJECTION.
7. DRILLED AND CLEANED ANCHOR HOLES SHALL BE PROTECTED FROM CONTAMINATION AND WATER (E.G. RAIN) UNTIL THE ADHESIVE IS INSTALLED.
8. A DRILLED ANCHOR HOLE SHALL BE RE-CLEANED JUST PRIOR TO ADHESIVE INJECTION IF, IN THE OPINION OF THE ENGINEER, INSPECTOR, OR ARCHITECT'S REPRESENTATIVE, THE HOLE HAS BECOME CONTAMINATED AFTER INITIAL CLEANING.
9. ADHESIVE SHALL BE INJECTED IN ACCORDANCE WITH THE MPII USING EQUIPMENT AND PROCEDURES AS SPECIFIED THEREIN FOR THE SPECIFIC CONDITIONS ASSOCIATED WITH THE INJECTION. THIS SHOULD BE CLEARLY SPECIFIED IN THE MPII, IF NOT, ANOTHER PRODUCT SHOULD BE SPECIFIED.
10. ANCHOR ELEMENTS TO BE INSTALLED IN THE ADHESIVE SHALL BE CLEAN, OIL FREE, AND FREE OF LOOSE RUST, PAINT, OR OTHER COATINGS. THREADS ON THE PROJECTING PORTION OF THE ANCHOR ELEMENT SHALL BE PROTECTED FROM ADHESIVE CONTAMINATION.
11. INSTALLED ADHESIVE ANCHORS SHALL BE SECURELY FIXED IN-PLACE TO PREVENT DISPLACEMENT WHILE THE ADHESIVE CURES. UNLESS SHOWN OTHERWISE ON THE DRAWINGS, ANCHORS SHALL BE INSTALLED PERPENDICULAR TO THE CONCRETE SURFACE. ANCHORS DISPLACED BEFORE FULL ADHESIVE CURE SHALL BE CONSIDERED DAMAGED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
12. POST-INSTALLED REINFORCING BARS OR ALL-THREADED BARS SHALL NOT BE BENT AFTER BEING INSTALLED UNLESS PERMITTED BY THE SER.

STRUCTURAL STEEL

1. ALL GROUT USED UNDER STEEL COLUMN BASE PLATES SHALL BE OF NON-SHRINKABLE TYPE CONFORMING TO ASTM C1090 AND THE CORPS OF ENGINEERS SPECIFICATION CRD-C-621 AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI. 100 PERCENT OF VOID UNDER ALL BASE PLATES IS TO BE GROUTED. ALL BASE PLATES WITH A DIMENSION GREATER THAN 24" SHALL HAVE TWO 1" DIAMETER GROUT HOLES. IF THE SPACE UNDER A COLUMN BASE PLATE IS LESS THAN 1/4", A PRESSURE INJECTION SYSTEM SHALL BE USED. PRE-GROUTING OF THE BASE PLATES IS NOT PERMITTED
2. ALL STRUCTURAL STEEL DESIGN, DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO LOAD AND RESISTANCE FACTOR DESIGN (LRFD) ACCORDING TO THE 2005 AISC SPECIFICATION.
3. ALL WELDING SHALL CONFORM TO THE STANDARDS OF THE THIRTEENTH EDITION OF THE MANUAL STEEL CONSTRUCTION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AND THE AMERICAN WELDING SOCIETY ANSI/AWS D1.1 STRUCTURAL WELDING CODE-STEEL. WELDING OF REINFORCING BARS SHALL COMPLY TO THE AMERICAN WELDING SOCIETY AWS D1.4. SHORT CIRCUIT TRANSFER FOR THE GAS METAL ARC WELDING PROCESS IS NOT PERMITTED.
4. ELECTRODES FOR ALL FIELD AND SHOP WELDING SHALL BE CLASS E70XX LOW HYDROGEN.
5. ALL STRUCTURAL STEEL ROLLED SHAPES SHALL CONFORM TO ASTM A992, AND ALL ANGLES, BARS, CHANNELS AND PLATES SHALL CONFORM TO ASTM A36. ALL SQUARE AND RECTANGULAR TUBES (Fy 50 KSI) SHALL CONFORM TO ASTM A500 GRADE C AND ROUND PIPES (Fy 50 KSI) SHALL CONFORM TO ASTM A500 GR C. ALL COLD-FORMED GIRTS AND PURLINS SHALL CONFORM TO ASTM A570M GR. 55.
6. ALL STRUCTURAL STEEL DETAILS AND CONNECTIONS SHALL CONFORM TO STANDARDS OF THE AISC. DOUBLE CONNECTIONS THROUGH COLUMN WEBS, BEAMS THAT FRAME OVER THE TOP OF COLUMNS, AND BEAM TO BEAM CONNECTIONS SHALL HAVE A BEAM ERECTION SEAT OR A STAGGERED CONNECTION WITH AT LEAST ONE INSTALLED BOLT REMAINING IN PLACE TO SUPPORT THE FIRST BEAM WHILE THE SECOND BEAM IS BEING ERECTED.
7. CONNECTIONS NOT DETAILED ON THE DRAWINGS SHALL BE SELECTED FROM THE TABLES IN PART 10 OF THE THIRTEENTH EDITION OF THE MANUAL OF STEEL CONSTRUCTION OF THE AISC. TABLE 10-1 MAY BE USED FOR ALL-BOLTED DOUBLE ANGLE CONNECTIONS. TABLE 10-2 MAY BE USED FOR WELDED/BOLTED DOUBLE ANGLE CONNECTIONS. TABLE 10-3 MAY BE USED FOR ALL-WELDED DOUBLE ANGLE CONNECTIONS. BEAM REACTIONS USED SHALL BE ONE-HALF THE TOTAL ALLOWABLE UNIFORM LOAD GIVEN IN TABLE 3-6 THROUGH 3-9 IN PART 3 OF THE MANUAL OF STEEL CONSTRUCTION OF THE AISC. CONNECTIONS FOR COMPOSITE BEAMS SHALL HAVE THE STANDARD AISC CAPACITY INCREASED BY 35 PERCENT.
8. ALL MISCELLANEOUS WELDS (FIELD OR SHOP) SHALL BE MINIMUM SIZE FILLET ALL AROUND IN ACCORDANCE WITH AISC. IT IS ASSUMED TO BE THE PLATE THICKNESS OF THE THINNEST PIECE MINUS 1/16". WELDING OF CONTINUOUS MEMBERS SHALL BE A MINIMUM OF 2 INCHES OF 3/16 INCH FILLET STITCH WELDS AT 12 INCHES O.C., STAGGERED EACH SIDE, UNLESS OTHERWISE NOTED. COLUMN BASE PLATES, CAP PLATES AND STIFFENER PLATES SHALL BE WELDED ALL AROUND.
9. PROVIDE COLUMN CAP PLATES AS FOLLOWS UNLESS NOTED OR DETAILED OTHERWISE:
    A) FOR DECK BEARING — 1/4 INCH THICK FOR ALL HSS SECTIONS AND WIDE FLANGE SECTIONS WHERE BEAMS DO NOT FRAME INTO BOTH SIDES OF THE WEB
    B) FOR JOIST BEARING
        1) K-SERIES JOISTS — 1/2 INCH THICK
        2) LH AND DLH — 3/4 INCH THICK
        3) JOIST GIRDERS — 1 INCH THICK
    C) FOR BEAM BEARING — SEE TYPICAL DETAILS OF 3/4 INCH MINIMUM UNLESS NOTED OTHERWISE
    D) FOR MOMENT CONNECTS — REFER TO TYPICAL MOMENT CONNECTION DETAILS
    E) ALWAYS PROVIDE CAP PLATES FOR SQUARE, RECTANGULAR, AND ROUND HSS COLUMNS
10. WEB STIFFENERS SHALL BE PROVIDED IN WIDE FLANGE SHAPES AS FOLLOWS:
    A) COLUMN WEBS AT FULLY DEVELOPED MOMENT CONNECTIONS — STIFFENERS SHALL BE COMPLETE PENETRATION GROOVE WELDED WITH SAME THICKNESS AND GRADE AS THE BEAM FLANGES. WHERE MOMENT CONNECTIONS OCCUR ON COLUMN FLANGES AND COLUMN WEBS, STIFFENER THICKNESS SHALL BE EQUAL THE VECTOR SUMMATION OF THE RESPECTIVE BEAM FLANGE THICKNESSES.
    B) BEAM WEBS WHERE BEAMS BEAR ON A COLUMN — SAME THICKNESS AND STRENGTH AS COLUMN FLANGES.
    C) BEAM WEBS WHERE COLUMN BEARS ON A BEAM (POST UP OR STUB COLUMN) — SAME THICKNESS AND STRENGTH AS COLUMN FLANGES.
11. PROVIDE ALL NECESSARY HOLES IN MISCELLANEOUS STRUCTURAL STEEL MEMBERS FOR ATTACHMENT OF NON-STRUCTURAL ITEMS (IE: HOLES FOR WINDOW HEAD ANCHORS), SEE ARCHITECTURAL DRAWINGS FOR REQUIREMENTS.
12. SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
13. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS): WHERE NOTED ON PLANS OR BY THE ARCHITECT SHALL CONFORM TO AISC 303 SECTION 10
14. ALL CONNECTION BOLTS FOR STRUCTURAL STEEL MEMBERS SHALL CONFORM TO ASTM A325 EXCEPT WHERE NOTED OTHERWISE. MINIMUM SIZE SHALL BE 3/4 INCH DIAMETER UNLESS NOTED OTHERWISE. BOLTS SHALL BE DIRECT TENSION INDICATING BOLTS CONFORMING TO ASTM F1852 WITH HARDENED WASHERS UNDER THE SACRIFICIAL SPLINES. HEX NUTS SHALL CONFORM TO ASTM A563 AND WASHERS SHALL CONFORM TO ASTM F436.
15. SHOP BOLTED CONNECTIONS ARE PERMISSIBLE IF SUFFICIENT BOLT CLEARANCE IS AVAILABLE FOR TIGHTENING OF HIGH STRENGTH BOLTS. CLEARANCES SHALL BE IN ACCORDANCE WITH TABLE 7-16 AND 7-17 OF THE THIRTEENTH EDITION OF THE MANUAL OF STEEL CONSTRUCTION OF THE AISC. ALL STEEL MEMBERS AND ASSEMBLIES SHALL BE SHOP FABRICATED TO THE GREATEST EXTENT POSSIBLE. TRUSSES SHALL BE FULLY SHOP ASSEMBLED. FIELD SPLICES FOR SHIPPING SHALL ONLY BE AS APPROVED BY THE ENGINEER OF RECORD. THE STEEL FABRICATOR AND THE STEEL ERECTOR SHALL COORDINATE THE SHOP FABRICATION, SHIPPING AND ERECTION OF ALL STRUCTURAL MEMBERS AND ASSEMBLIES.
16. ALL BRICK SUPPORT ANGLES ARE DESIGNED TO FULLY SUPPORT THE BRICK VENEER WITH SOME NORMAL DEFLECTION AS THE BRICK IS INSTALLED. LEDGER ANGLE FOR FASCIA BRICK SUPPORT SHALL BE INSTALLED SUCH THAT THE SWEEP OR CAMBER DOES NOT EXCEED 1/8 INCH DEVIATION FROM STRAIGHT. BRICK SHALL BE INSTALLED WITHOUT SHORING THE SUPPORT ANGLE DURING CONSTRUCTION. SHORING THE BRICK DURING CONSTRUCTION CAN RESULT IN HORIZONTAL BED JOINT CRACKING WHEN THE SHORES ARE REMOVED.
17. HEADED ANCHORS SHALL BE MANUFACTURED FROM COLD DRAWN WIRE CONFORMING TO ASTM A108, GR.50 WITH FLUXED ENDS. STUDS SHALL BE AUTOMATICALLY END WELDED WITH SUITABLE STUD WELDING EQUIPMENT IN ACCORDANCE WITH AWS D1.1. STUDS FOR EMBEDDED PLATES AND OTHER ANCHORS SHALL BE SHOP WELDED. STUDS FOR COMPOSITE BEAMS SHALL BE FIELD WELDED.
18. ALL STRUCTURAL STEEL WHICH IS OUTSIDE THE BUILDING ENVELOPE SHALL BE HOT DIPPED GALVANIZED. ZINC COATING SHALL MEET THE REQUIREMENTS OF ASTM I23-73, WITH A MINIMUM COATING CLASS OF GRIOO AND SHALL BE APPLIED AFTER FABRICATION. ALL FIELD WELDS SHALL BE GROUND SMOOTH AND TOUCHED UP WITH A ZINC RICH PAINT.
19. STEEL COLUMNS SHALL BE SPLICED A MINIMUM OF 4'-0" ABOVE THE FINISH FLOOR IN STORIES WHERE SPLICES OCCUR. COLUMNS SHALL BE SPLICED EVERY TWO LEVELS. COLUMNS S



NORTH

FOUNDATION PLAN

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

SHEAR WALL SCHEDULE

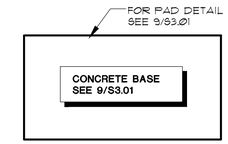
MARK	ALLOWABLE LOAD	DESCRIPTION	NO. OF SIDES	SILL BOLTING	SHEAR TRANSFER	SILL NAILING	ALTERNATE SHEAR TRANSFER
A	280 plf	1/2" STRUCT I PLYWOOD WITH ALL JOINTS BLOCKED NAIL AND WITH 8d NAILS AT 6" OC AT PANEL EDGES	ONE	1/2"ø BOLTS AT 36" OC	A35 AT 18" OC	16d AT 6" OC	LPT5 @ 21" OC
B	550 plf	1/2" STRUCT I PLYWOOD WITH ALL JOINTS BLOCKED NAIL AND WITH 8d NAILS AT 3" OC AT PANEL EDGES	ONE	5/8"ø BOLTS AT 27" OC 1/2"ø BOLTS AT 18" OC	A35 AT 9" OC	16d AT 3" OC	LPT5 @ 11" OC
C	175 plf	5/8" GYP. BOARD BLOCKED W/ 6d COOLER NAILS @ 4"O.C. (ALL SUPPORTS NAILED @ 4"O.C.)	ONE	1/2"ø BOLTS AT 48" OC	A35 AT 30" OC	16d AT 6" OC	LPT5 @ 35" OC

1. NAIL ALL PANELS 12" O.C. AT INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. (ALL PANEL EDGES SHALL BE BLOCKED.
2. PROVIDE 3 VERT STUDS @ EACH END OF SHEAR WALL.

SPREAD FOOTING SCHEDULE

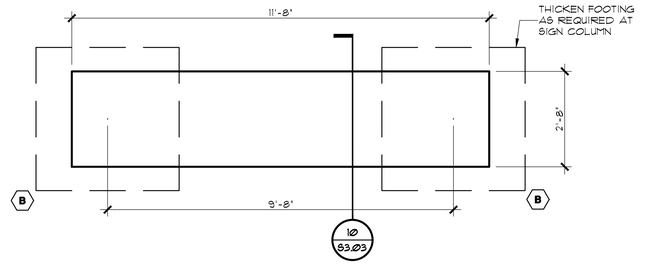
MARK	LENGTH 'A'	WIDTH 'B'	THICK. 'T'	REINFORCEMENT LONG WAY	REINFORCEMENT SHORT WAY
A	3'-0"	3'-0"	2'-6"	(4) - #5	(4) - #5
B	4'-0"	4'-0"	2'-6"	(6) - #5	(6) - #5
C	5'-0"	5'-0"	2'-6"	(6) - #6	(6) - #6

PROVIDE TWO LAYERS OF REINFORCING IN ALL FOOTINGS. PROVIDE COMPACTED SUBGRADE AT ALL FOOTING LOCATIONS



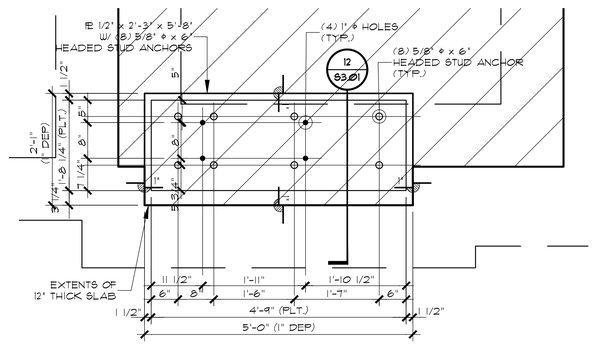
GENERATOR PAD FOUNDATION PLAN

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



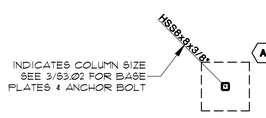
MONUMENT SIGN FOUNDATION PLAN

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



1 EMBED PLATE AT VAULT DOOR DEPRESSION

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



LEGEND

A — INDICATES SHEAR WALL - SEE SCHEDULE

SIMPSON HDU2 — INDICATES HOLDOWN AT SHEARWALL END SEE S3.03 FOR DETAILS

FD — INDICATES FLOOR DRAIN SEE 10/S3.02

INDICATES INTERIOR GRADE BEAM SEE 7/S3.01

SLI DESIGN, INC.

ARCHITECTURE PLANNING INTERIOR DESIGN

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Richmond, TX 77406

Project Number : 8972

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ISSUED FOR CLIENT APPROVAL	
ISSUED FOR BIDDING	04/01/2026
ISSUED FOR PERMIT	04/01/2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE

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Texas Engineering
Firm Reg. No. F-170
6051 North Course Dr•Ste 375
Houston, Texas 77072
713.780.3345

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STATE OF TEXAS
BRITT GARDNER
90958
LICENSED
PROFESSIONAL ENGINEER
04/01/2026

DRAWING TITLE
FOUNDATION PLAN

DRAWN BY	AD	SHEET NO.
CHECKED BY	BG	S1.01
APPROVED BY	BG	

NOTE: SEE SHEET S4.04 FOR TRUSS PROFILES

NOTE: PROVIDE INTERMEDIATE BRACING PER DETAIL 5/S4.02 AND SHEATH ALL LOAD BEARING STUD WALLS PRIOR TO LOADING OF ROOF TRUSSES AND ROOF DECK.

IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE BETWEEN THE ROOF TRUSS SUPPLIER AND THE MECHANICAL CONTRACTOR FOR ADEQUATE MECHANICAL EQUIPMENT AND DUCT CLEARANCE. CLEARANCES AND PROVISIONS SHOWN ON THESE DRAWINGS CANNOT TAKE INTO ACCOUNT DIFFERENCES IN EQUIPMENT PURCHASED OR ALTERNATE DUCT LAYOUTS.

BOTTOM CHORD OF TRUSSES ARE NOT BRACED BY THE CEILING. DESIGN TRUSSES AND BRACING AS REQUIRED.

NOTE: THE LATERAL STABILITY OF THIS STRUCTURE IS DEPENDENT ON NUMBER OF SHEARWALLS LOCATED THROUGHOUT THE BUILDING. THEREFORE, THIS STRUCTURE SHOULD BE FULLY BRACED IN ALL DIRECTIONS, UNTIL ALL WALL STUDS, HOLD DOWNS, AND SHEATHING ARE IN PLACE AND FULLY CONSTRUCTED.

NOTE: ALL INTERIOR WALL STUDS SHALL BE 2x6 #2 GR SYP AT 16" O.C., UNLESS NOTED OTHERWISE.

ALL FASTENERS, HARDWARE, ANCHOR BOLTS, SILL BOLTS, NAILS AND SCREWS AND BOLTS SHALL BE HOT DIP GALVANIZED

NOTE: SHEATH ALL LOAD BEARING STUD WALLS PRIOR TO LOADING OF ROOF TRUSSES AND ROOF DECK.

8'-0" WIDE X 6'-0" HIGH OPENING IN ROOF TRUSSES. PROVIDE 3/4" PLYWOOD DECK ON TOP OF TRUSS BOTTOM CHORD (TYP.)

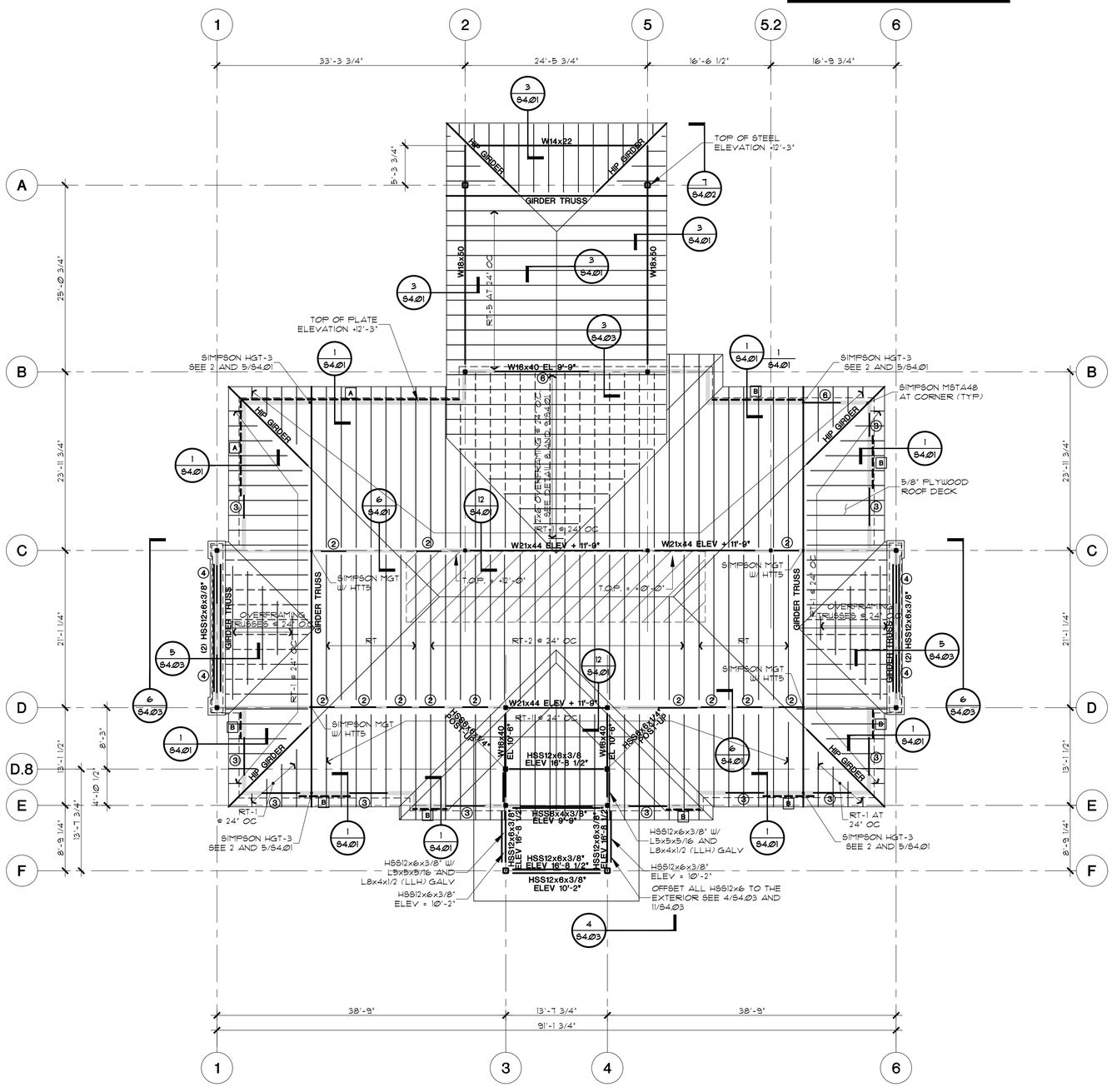
HEADER SCHEDULE	
MARK	HEADER TYPE
1	(2) - 2x8
2	(2) - 2x10
3	(3) - 2x6
4	(3) - 2x8
5	(3) - 2x10
6	(3) - 2x12
7	5 1/4" x 11 1/4" LSL BM

NOTE:
1. ALL INTERIOR HEADERS ARE TYPE (1) UNLESS NOTED.
2. ALL EXTERIOR HEADERS ARE TYPE (3) UNLESS NOTED.
3. USE 1/2" PLYWOOD SPACERS AS REQUIRED

SHEAR WALL SCHEDULE

MARK	ALLOWABLE LOAD	DESCRIPTION	NO. OF SIDES	SILL BOLTING	SHEAR TRANSFER	SILL NAILING	ALTERNATE SHEAR TRANSFER
A	280 plf	1/2" STRUCT I PLYWOOD WITH ALL JOINTS BLOCKED NAIL AND WITH 8d NAILS AT 6" OC AT PANEL EDGES	ONE	1/2"ø BOLTS AT 36" OC	A35 AT 18" OC	16d AT 6" OC	LPT5 @ 21" OC
B	550 plf	1/2" STRUCT I PLYWOOD WITH ALL JOINTS BLOCKED NAIL AND WITH 8d NAILS AT 3" OC AT PANEL EDGES	ONE	5/8"ø BOLTS AT 27" OC 1/2"ø BOLTS AT 18" OC	A35 AT 9" OC	16d AT 3" OC	LPT5 @ 11" OC
C	175 plf	5/8" GYP. BOARD BLOCKED W/ 6d COOLER NAILS @ 4"O.C. (ALL SUPPORTS NAILED @ 4"O.C.)	ONE	1/2"ø BOLTS AT 48" OC	A35 AT 30" OC	16d AT 6" OC	LPT5 @ 35" OC

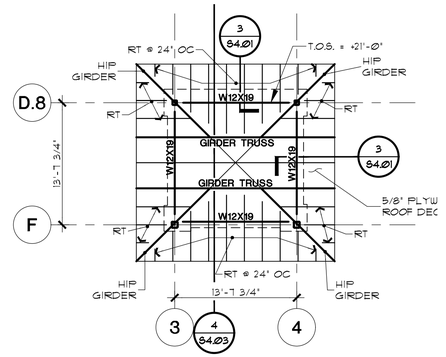
1. NAIL ALL PANELS 12" O.C. AT INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. (ALL PANEL EDGES SHALL BE BLOCKED.
2. PROVIDE 3 VERT STUDS @ EACH END OF SHEAR WALL.



ROOF FRAMING PLAN

NORTH

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



HIGH ROOF FRAMING PLAN

NORTH

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

(1) INDICATES HEADER SCHEDULE - SEE THIS SHEET

INDICATES LOAD BEARING WALL

A INDICATES SHEAR WALL - SEE SCHEDULE

LEGEND

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REVISIONS

MARK	DESCRIPTION	DATE

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713.780.3345

The information, ideas, designs, details, layouts, techniques, features, arrangements, plans, sequences, dimensions, allowances, tolerances, conceptions, specifications, intentions, technology or embodiments, as illustrated, arranged, displayed, noted, recorded, indicated, represented, disclosed, evidenced, detailed or otherwise reduced to tangible form hereon, either expressly, inherently or by implication, are the confidential and proprietary information of SLI Design, Inc., and shall not be used for any purpose other than the specific project or undertaking identified on the drawing title block or legend for which they are and have been prepared by SLI Design, Inc. Any other reproduction, disclosure or use of any portion of the confidential and proprietary information of SLI Design, Inc., shall be a breach of the obligation of confidence created by the acceptance of this drawing from SLI Design, Inc. for a specific project or Contract. Any copying, duplicating, reproducing, utilization, alteration, modification, revision or change to this drawing, is expressly prohibited unless done with the prior written consent or approval of SLI Design, Inc., and shall not be undertaken without receipt of such prior written approval. This drawing is loaned by SLI Design, Inc., for the limited purpose of complying with a specific Contract. The drawing remains the property of SLI Design, Inc., and shall be returned upon request or completion of the contract, unless specifically authorized by Contract, under which it was loaned.

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90958
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04/01/2026

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ROOF FRAMING PLAN

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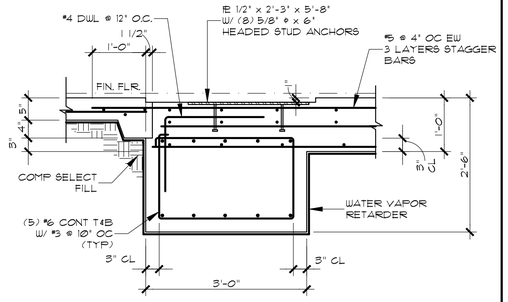
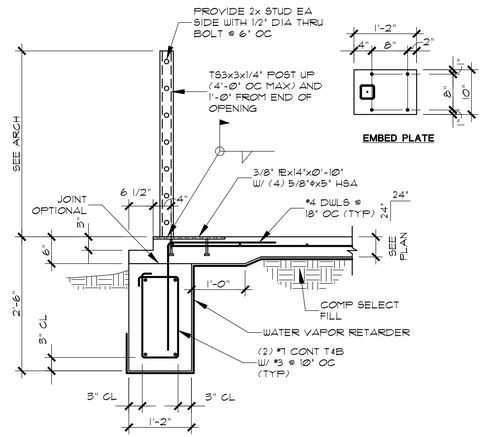
APPROVED BY	BG	

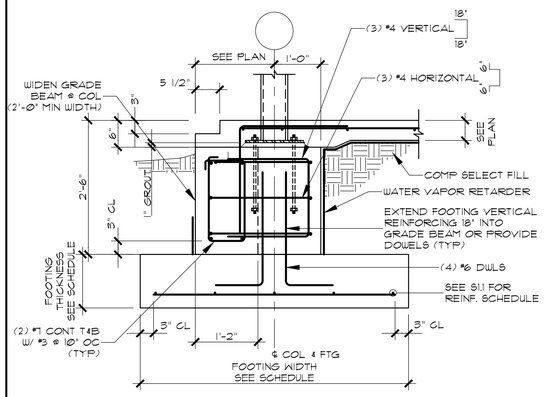


COORDINATE DEPRESSION REQUIREMENTS W/ VAULT SUPPLIER. THICKEN TOTAL SLAB THICKNESS BY THE DEPRESSION THICKNESS TO MAINTAIN 1'-0" MIN. VAULT SLAB THICKNESS

12 BEAM AT VAULT SLAB
SCALE:3/4" = 1'-0"

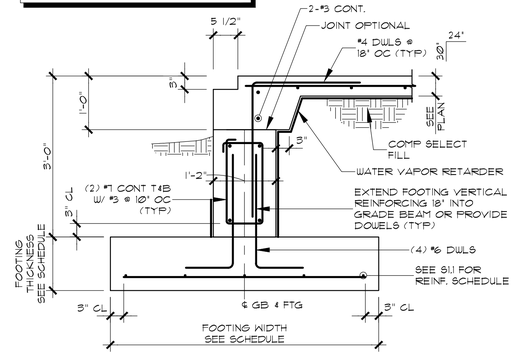


9 EXTERIOR GRADE BEAM W/ BRICK LEDGE AT POST UP
SCALE:3/4" = 1'-0"

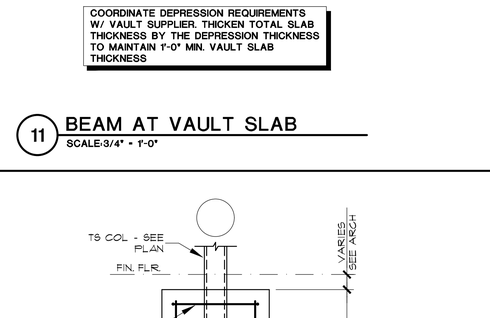


6 EXTERIOR GRADE BEAM AT COLUMN W/ BRICK LEDGE
SCALE:3/4" = 1'-0"

NOTE: WHEN NOT DIMENSIONED ON PLAN, PLACE INTERMEDIATE FOOTING @ EQUAL SPACES BETWEEN COLUMN FOOTINGS.



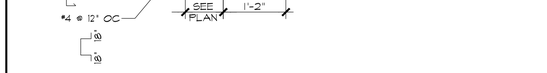
3 INTERMEDIATE FOOTING DETAIL
SCALE:3/4" = 1'-0"



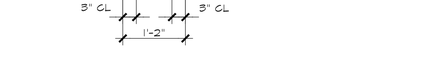
COORDINATE DEPRESSION REQUIREMENTS W/ VAULT SUPPLIER. THICKEN TOTAL SLAB THICKNESS BY THE DEPRESSION THICKNESS TO MAINTAIN 1'-0" MIN. VAULT SLAB THICKNESS

11 BEAM AT VAULT SLAB
SCALE:3/4" = 1'-0"

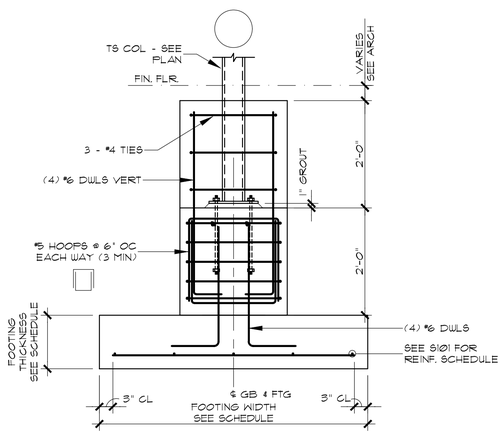
8 INTERIOR GRADE BEAM AT COLUMN
SCALE:3/4" = 1'-0"



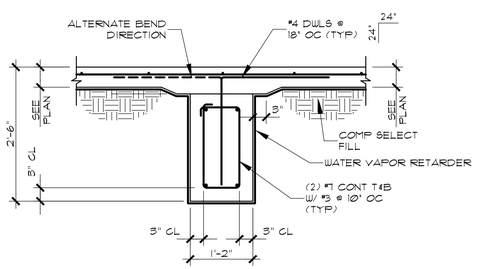
5 BUMPOUT DETAIL
SCALE:3/4" = 1'-0"



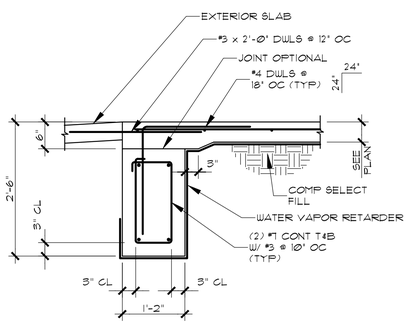
2 EXTERIOR GRADE BEAM AT BRICK LEDGE
SCALE:3/4" = 1'-0"



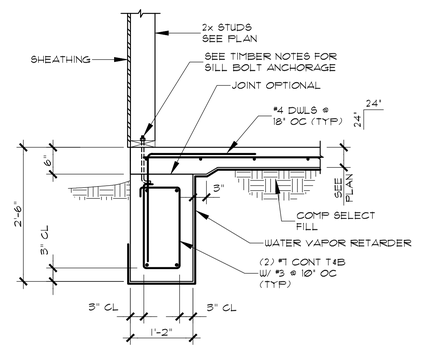
10 ISOLATED COLUMN BASE DETAIL
SCALE:3/4" = 1'-0"



7 TYPICAL INTERIOR GRADE BEAM
SCALE:3/4" = 1'-0"



4 GRADE BEAM AT EXTERIOR SLAB
SCALE:3/4" = 1'-0"



1 TYPICAL EXTERIOR GRADE BEAM
SCALE:3/4" = 1'-0"

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Project Number : 8972

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ISSUED FOR CONSTRUCTION	

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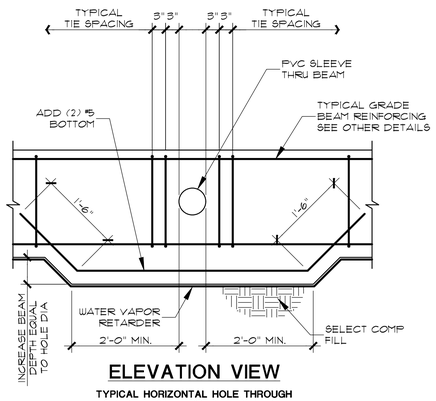
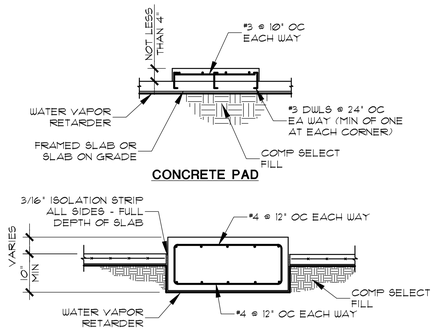


ELEVATION VIEW

TYPICAL HORIZONTAL HOLE THROUGH GRADE BEAM LARGER THAN 4" DIA.

12 GRADE BEAM PENETRATION DETAIL

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



CONCRETE PAD

CONCRETE BASE

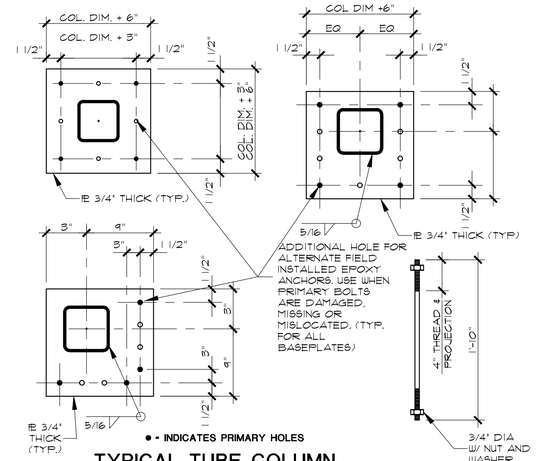
NOTE: VERIFY ALL PAD AND BASE LOCATIONS, DIMENSIONS, AND ADEQUACY WITH THE MECHANICAL ENGINEER AND THE INDIVIDUAL EQUIPMENT REQUIREMENTS. MECHANICAL ENGINEER TO SPECIFY ISOLATION DATA. PROVIDE ADDITIONAL LAYER OF REINFORCING FOR PAD THICKNESS GREATER THAN 18".

9 PAD AND BASE DETAIL

SCALE:NTS

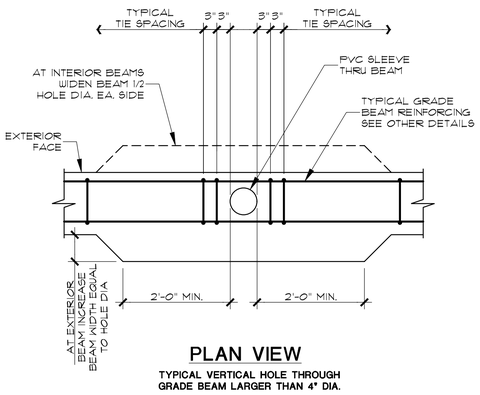
6 DETAIL

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



3 TYPICAL TUBE COLUMN BASE PLATE DETAILS

SCALE:NTS



PLAN VIEW

TYPICAL VERTICAL HOLE THROUGH GRADE BEAM LARGER THAN 4" DIA.

11 GRADE BEAM PENETRATION DETAIL

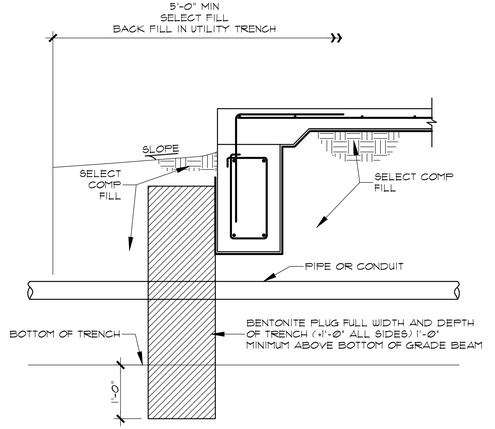
SCALE:3/4" = 1'-0"

8 DETAIL

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

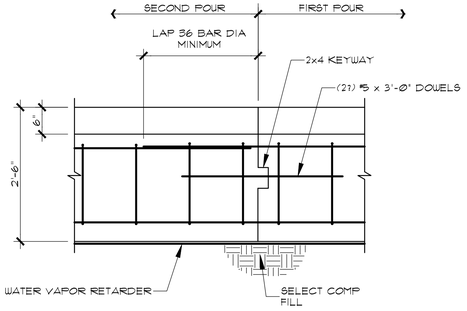
5 DETAIL

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



2 PIPE ENTRY DETAIL

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

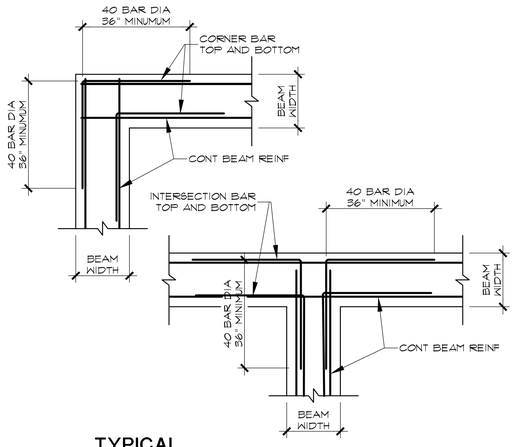


ELEVATION VIEW

LOCATE JOINTS IN MIDDLE THIRD OF BEAM SPAN BETWEEN SUPPORTS

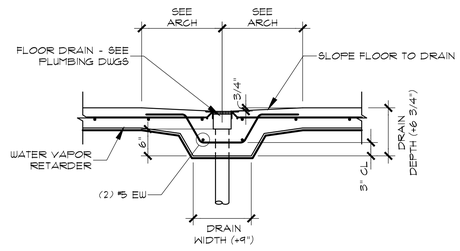
10 GRADE BEAM CONSTRUCTION JOINT

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



7 TYPICAL CORNER BAR DETAIL

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

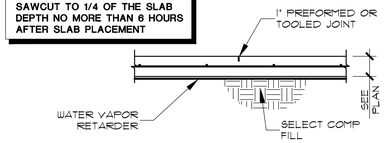


VERIFY LOCATION WITH PLUMBING DRAWINGS

4 FLOOR DRAIN DETAIL

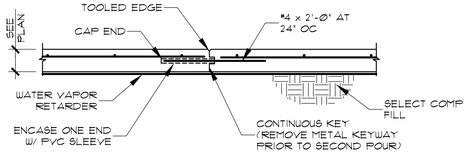
SCALE:3/4" = 1'-0"

CONTRACTION JOINT MAY BE SAWCUT TO 1/4 OF THE SLAB DEPTH NO MORE THAN 6 HOURS AFTER SLAB PLACEMENT



SLAB CONTRACTION JOINT

SEE PLAN FOR LOCATION OR SPACE AT 15' x 15' MAXIMUM IN EACH DIRECTION



SLAB CONSTRUCTION JOINT

NOTE: AT CONTRACTOR'S OPTION, CONSTRUCTION JOINT MAY BE USED IN LIEU OF CONTRACTION JOINT.

1 SLAB JOINT DETAIL

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

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CJG Engineers
Texas Engineering
Firm Reg. No. F-170
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Houston, Texas 77072
713.780.3345

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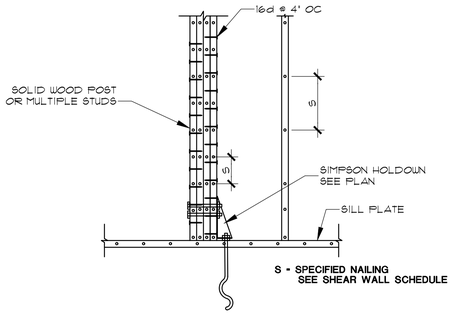
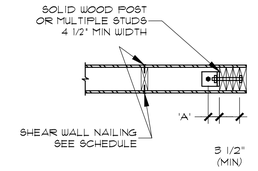
12 DETAIL
SCALE:3/4" = 1'-0"

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

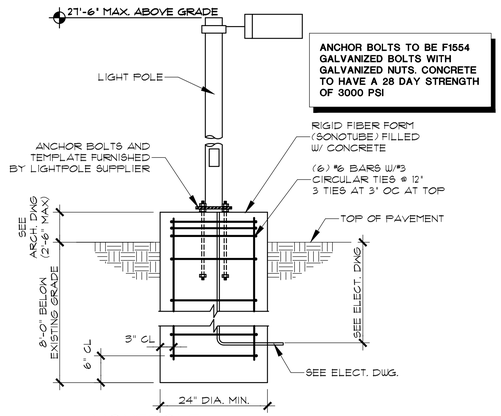


6 HOLDOWN STUD NAILING
SCALE:3/4" = 1'-0"

HOLDOWN	DISTANCE 'A'
HDU2	1 5/16"
HDU4	1 5/16"
HDU5	1 5/16"
HDU8	1 3/8"
HDU11	1 3/8"
HDU14	1 9/16"



3 OPENING HOLDOWN PLAN
SCALE:3/4" = 1'-0"



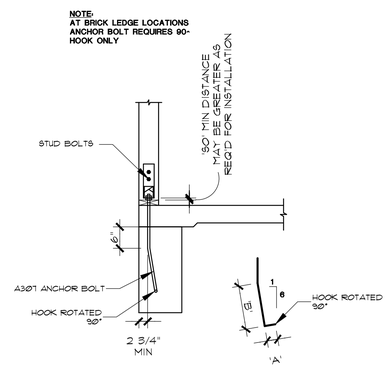
ANCHOR BOLTS TO BE F1554 GALVANIZED BOLTS WITH GALVANIZED NUTS. CONCRETE TO HAVE A 28 DAY STRENGTH OF 3000 PSI

11 LIGHTPOLE FOUNDATION DETAIL
SCALE:3/4" = 1'-0"

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

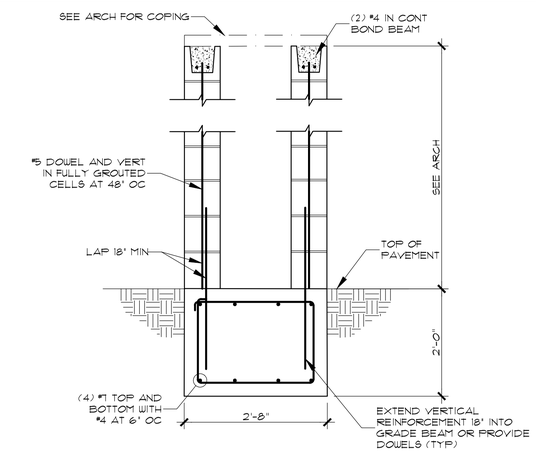
5 DETAIL
SCALE:3/4" = 1'-0"

NOTE:
AT BRICK LEDGE LOCATIONS ANCHOR BOLT REQUIRES 90-HOOK ONLY.

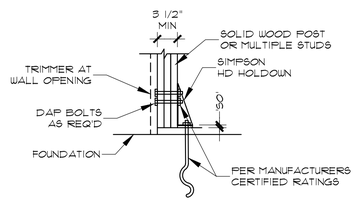


HOLDOWN	SDS SCREW	ANCHOR BOLT DIA	3000 PSI A	3000 PSI B	'SO'	SIMPSON ANCHOR BOLT
HDU2	(6)-SDS 1/4" x 2 1/2"	5/8"			3/8"	SSTB16
HDU4	(10)-SDS 1/4" x 2 1/2"	5/8"	4 1/2"	12"	1/2"	SSTB16
HDU5	(14)-SDS 1/4" x 2 1/2"	5/8"	4 1/2"	12"	9/16"	SSTB28
HDU8	(20)-SDS 1/4" x 2 1/2"	7/8"	4 1/2"	15"	9/16"	SSTB28
HDU11	(30)-SDS 1/4" x 2 1/2"	1"	4 1/2"	15"	9/16"	
HDU14	(36)-SDS 1/4" x 2 1/2"	1"	4 1/2"	15"	5/8"	

1 HOLDOWN ANCHOR SCHEDULE
SCALE:3/4" = 1'-0"

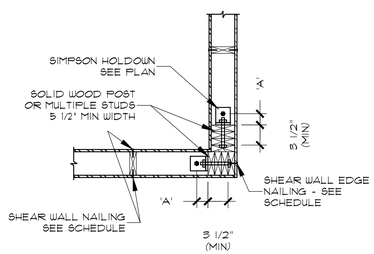


10 MONUMENT SIGN DETAIL
SCALE:3/4" = 1'-0"



7 HOLDOWN DETAIL
SCALE:3/4" = 1'-0"

HOLDOWN	DISTANCE 'A'
HDU2	1 5/16"
HDU4	1 5/16"
HDU5	1 5/16"
HDU8	1 3/8"
HDU11	1 3/8"
HDU14	1 9/16"



4 CORNER HOLDOWN PLAN
SCALE:3/4" = 1'-0"

HOLDOWN	ALTERNATE ANCHOR BOLT
HDU2	5/8"ø x 5" EMBED HILTI HIT HY150 ADHESIVE ANCHOR W/ "HAS" ROD
HDU4	5/8"ø x 5" EMBED HILTI HIT HY150 ADHESIVE ANCHOR W/ "HAS" ROD
HDU5	5/8"ø x 7 1/2" EMBED HILTI HIT HY150 ADHESIVE ANCHOR W/ "HAS" ROD
HDU8	7/8"ø x 7 1/2" EMBED HILTI HIT HY150 ADHESIVE ANCHOR W/ "HAS" ROD
HDU11	1"ø x 11 1/4" EMBED HILTI HIT HY150 ADHESIVE ANCHOR W/ "HAS" ROD
HDU14	1"ø x 12 3/8" EMBED HILTI HIT HY150 ADHESIVE ANCHOR W/ "HAS" ROD

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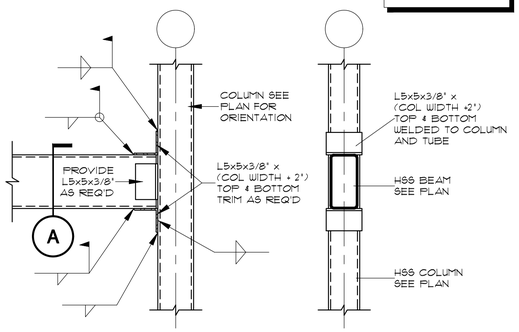
APPROVED BY	BG	

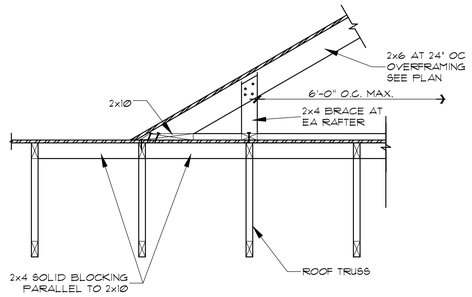
NOTE:
WHERE HSS BEAM IS NOT CENTERED ON COLUMN, INCREASE ANGLE LENGTH AS REQUIRED.

NOTE:
PROVIDE 3/8" CAP PLATE EACH END OF ALL HSS MEMBERS



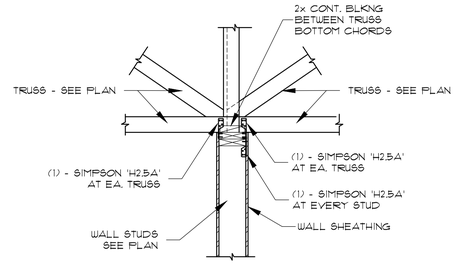
SECTION 'A'

3 TYPICAL TUBE TO COLUMN CONNECTION DETAIL
SCALE:NTS

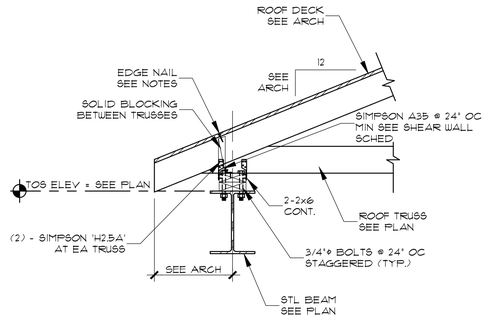


9 SECTION AT OVERFRAMING
SCALE:3/4" = 1'-0"

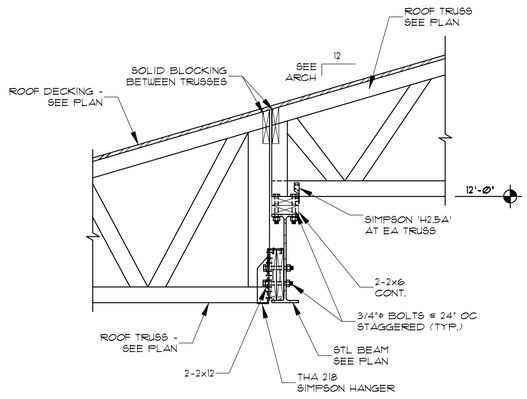
NOTE:
STAGGER TRUSSES AS REQUIRED



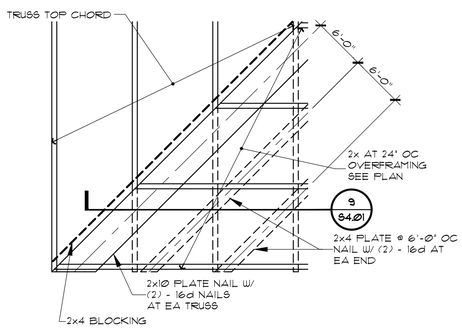
6 TYPICAL INTERIOR LOAD-BEARING WALL SUPPORTING TRUSSES
SCALE:3/4" = 1'-0"



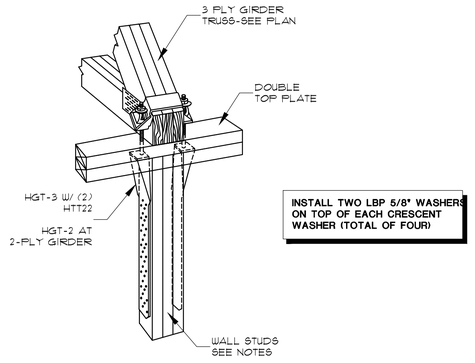
3 DETAIL AT DRIVE THRU AND TOWER
SCALE:3/4" = 1'-0"



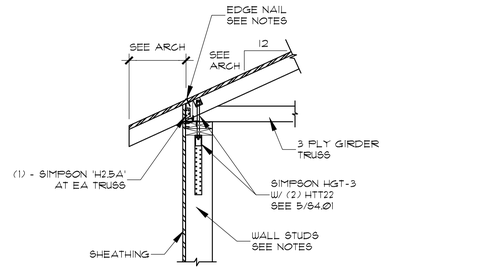
11 DETAIL
SCALE:3/4" = 1'-0"



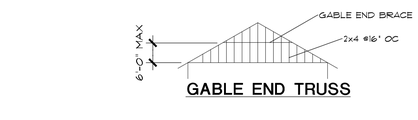
8 PLAN AT OVERFRAMING
SCALE:3/4" = 1'-0"



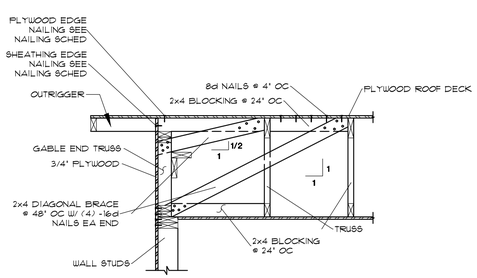
5 GIRDER TRUSS HOLDOWN DETAIL
SCALE:3/4" = 1'-0"



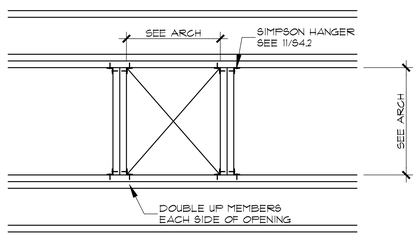
2 EDGE DETAIL AT GIRDER TRUSS
SCALE:3/4" = 1'-0"



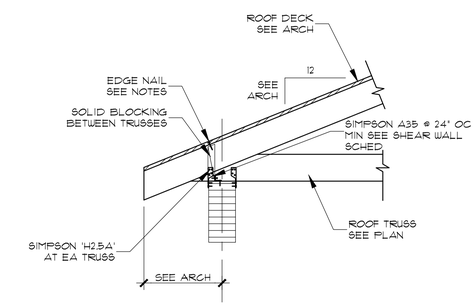
GABLE END TRUSS



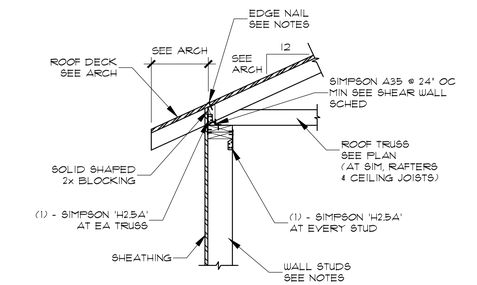
10 GABLE END DETAIL
SCALE:3/4" = 1'-0"



7 CEILING OPENING DETAIL
SCALE:3/4" = 1'-0"



4 DETAIL AT BEAM
SCALE:3/4" = 1'-0"



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

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Project Number : 8972

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ISSUED FOR PERMIT	04/01/2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE

CJG Engineers
Texas Engineering
Firm Reg. No. F-170
6051 North Course Dr•Ste 375
Houston, Texas 77072
713.780.3345

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90958
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04/01/2026

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APPROVED BY	BG

SHEET NO.
S4.01

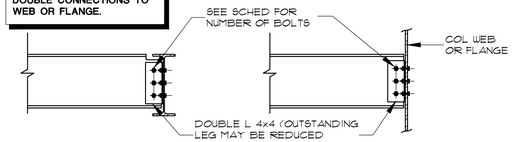
ROOF TRUSS UPLIFT ANCHOR SCHEDULE

SIMPSON ANCHORS	ROOF TRUSS UPLIFT LOAD	REMARKS
H5	LOADS LESS THAN 455#	
H7 OR H10	LOADS LESS THAN 905#	WHERE STUD ALIGNS WITH TRUSS
MTS12 *	LOADS LESS THAN 1000#	OR GREATER SIZE AS REQ'D FOR INSTALLATION
H15	LOADS LESS THAN 1300#	12-10d TO STUD
MIT28B	LOADS LESS THAN 4455#(2-PLY) LOADS LESS THAN 3465#(1-PLY)	24-16d NAILS 24-10d NAILS (TWO REQ'D)
THA218-2 **	LOADS LESS THAN 1550#	TWO PLY TRUSS
LTT20B	LOADS LESS THAN 1750#	TWO PLY TRUSS 10-16d NAILS (TWO REQ'D)
2-HD8A OR 4-HD5A	6465#	TWO PLY TRUSS
2-HD5A	3705#	ONE PLY TRUSS

* INSTALL SIMPSON MTS12 NEAREST ADJACENT STUD TO TOP PLATE.
** INSTALL SIMPSON MTS12 AT TWO NEAREST ADJACENT STUDS TO TOP PLATE.
INSTALL ALL ANCHORS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.

12 UPLIFT ANCHOR SCHEDULE
SCALE:3/4" = 1'-0"

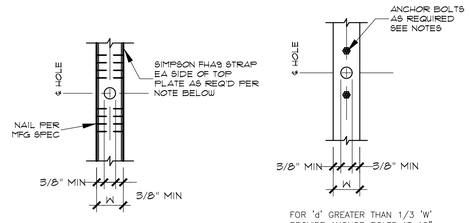
NOTE: PROVIDE TEMPORARY ERECTION SEAT ANGLE WITH 2 3/4" DIA. SEAT BOLTS AT DOUBLE CONNECTIONS TO WEB OR FLANGE.



BEAM DEPTH	ANGLE THICKNESS	NO. 3/4" DIA A325 BOLTS
8"	1/4"	2
10"	5/16"	2
12"	5/16"	3
14"	5/16"	3
16"	5/16"	4
18"	5/16"	5
21"	5/16"	6
24"	3/8"	6
27"	3/8"	7
30"	3/8"	8

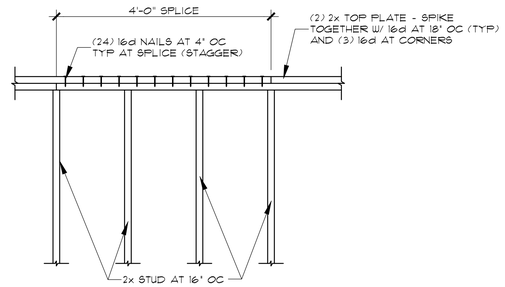
9 BEAM TO BEAM/COLUMN CONNECTION TABLE
SCALE:NTS

NOTE
1. HOLES SHALL BE DRILLED SO AS NOT TO SPLINTER THE STUD
2. 'd' = MEMBER DEPTH



PLAN - DBL TOP PLATE PLAN - SILL PLATE

6 HOLES IN PLATE
SCALE:3/4" = 1'-0"



3 TOP PLATE CONNECTION SPLICE
SCALE:3/4" = 1'-0"

JOIST(BEAM OR TRUSS) HANGER SCHEDULE

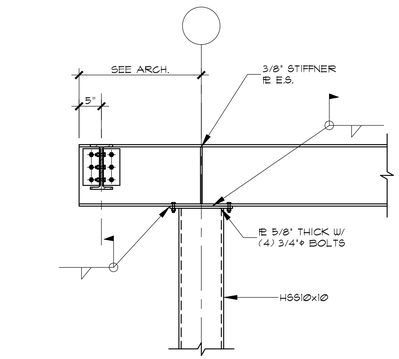
2x6	LUS26
2x8	LUS26
2x10	LUS28
2x12	LUS210
(2)-2x6	HUS26-2TF
(2)-2x8	HUS28-2TF
(2)-2x10	HUS210-2TF
(2)-2x12	HUS210-2TF
(3)-2x10	HUS210-3TF
(3)-2x12	HU212-3TF
3 1/2 x 9 1/4 LSL	HGUS410
5 1/4 x 9 1/4 LSL	HGUS 5.50/10
5 1/4 x 12 LSL	HGUS 5.50/12
TRUSS TO TRUSS	AS SPECIFIED BY TRUSS ENGINEER

PROVIDE HANGERS AT ALL LOCATIONS WHERE MEMBERS FRAME TOGETHER AT THE SAME ELEVATION (U.N.O.).
SEE TIMBER GENERAL NOTES No. 24.

WHERE WOOD BEAMS FRAME INTO STEEL COLUMNS, PROVIDE 1/4" PLATE SADDLE WITH BEARING PLATE WELDED TO COLUMN.

PROVDE SLOPED HANGERS WHERE REQUIRED.

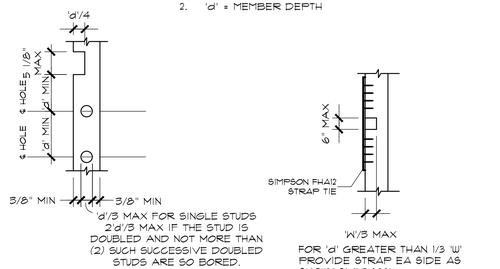
11 HANGER SCHEDULE
SCALE:N.T.S.



BEAM DEPTH	PLATE THICKNESS	NO. 3/4" DIA A325 BOLTS
8"	1/4"	2
10"	5/16"	2
12"	5/16"	3
14"	5/16"	3
16"	5/16"	4
18"	5/16"	5
21"	5/16"	6
24"	3/8"	6
27"	3/8"	7
30"	3/8"	8

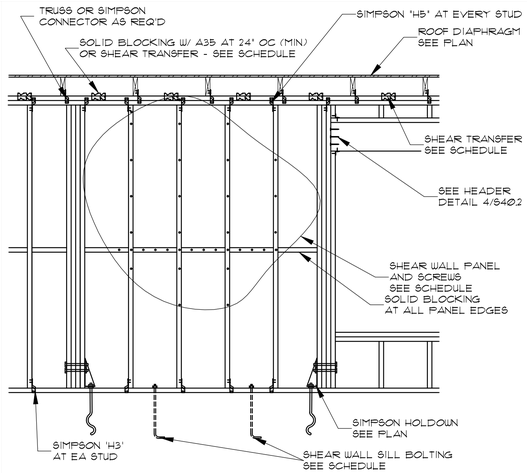
8 BEAM TO COLUMN CONNECTION TABLE
SCALE:NTS

NOTE
1. HOLES SHALL BE DRILLED SO AS NOT TO SPLINTER THE STUD
2. 'd' = MEMBER DEPTH

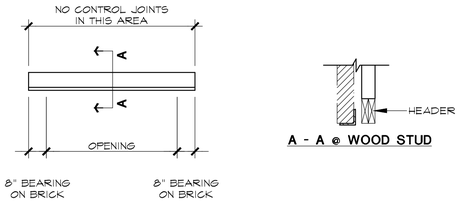


NOTCH OR HOLE IN STUD PLAN - NOTCH IN PLATE

5 HOLE/NOTCH IN STUD/PLATE
SCALE:3/4" = 1'-0"



2 SHEAR WALL ELEVATION
SCALE:N.T.S.



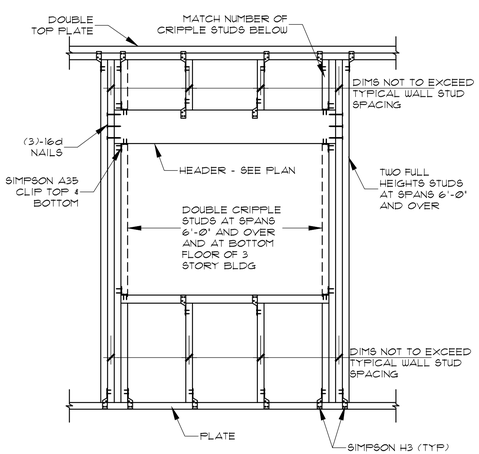
BRICK LOOSE LINTEL SCHEDULE

OPENING	ANGLE SIZE	REMARKS
0- 5'-0"	L 3 1/2 x 3 1/2 x 5/16	
5'-0" - 6'-0"	L 5 x 3 1/2 x 5/16 (LLV)	
6'-0" - 8'-0"	L 6 x 3 1/2 x 5/16 (LLV)	
8'-0" - 12'-0"	L 7 x 4 x 3/8 (LLV)	

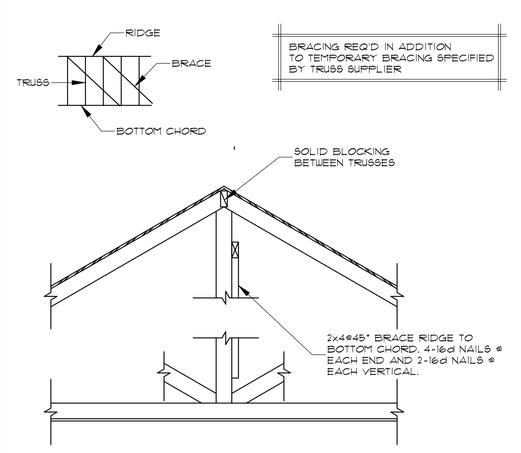
LLV = LONG LEG VERTICAL
GALVANIZE ALL LINTEL ANGLES.
ANGLE SIZES ARE MIN. - SEE ARCHITECTURAL DRAWINGS.

10 BRICK LOOSE LINTEL SCHEDULE
SCALE:N.T.S.

7 CANTILEVER DETAIL
SCALE:3/4" = 1'-0"



4 HEADER DETAIL
SCALE:N.T.S.



1 RIDGE BRACE DETAIL
SCALE:3/4" = 1'-0"

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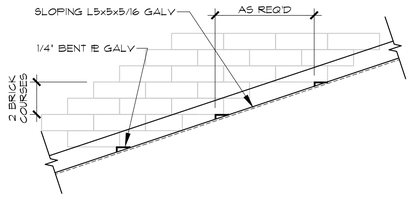
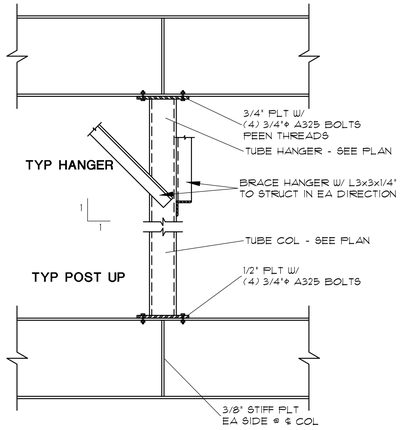
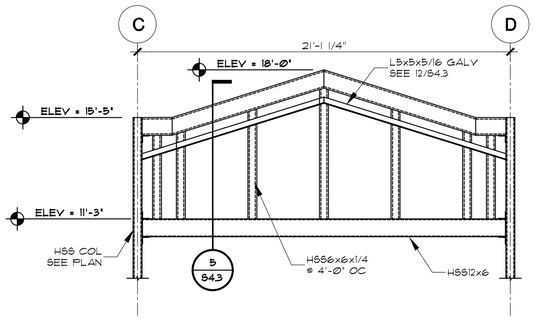


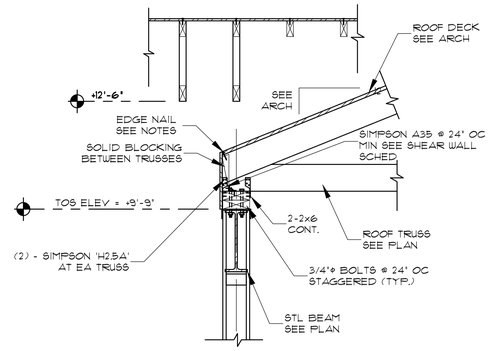
12 **ANGLE ON SLOPE**
SCALE:3/4"=1'-0"



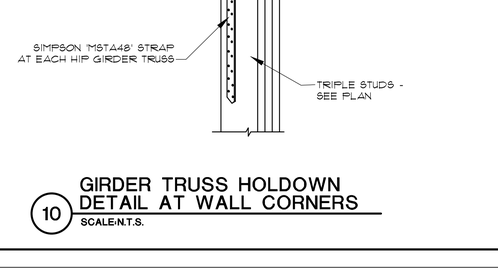
9 **POST UP DETAIL**
SCALE:3/4" = 1'-0"



6 **ELEVATION**
SCALE:1/4"=1'-0"



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



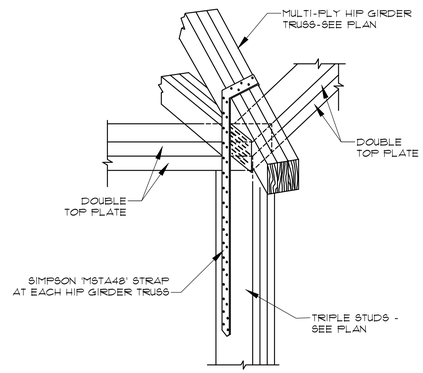
11 **DETAIL**
SCALE:N.T.S.

5 **DETAIL**
SCALE:3/4"=1'-0"

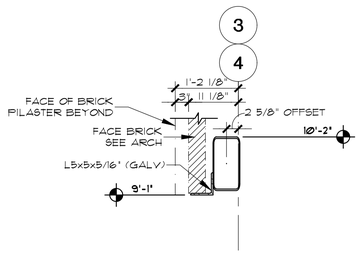
NAILING SCHEDULE

CONNECTIONS	NAILING
1. JOIST TO SILL OR GIRDER, TOENAIL	3–8d
2. BRIDGING TO JOIST, TOENAIL EA. END	2–8d
3. 1"x6" SUBFLOOR OR LESS TO EA. JOIST, FACE NAIL	2–8d
4. WIDER THAN 1"x6" SUBFLOOR TO EA. JOIST FACE NAIL	3–8d
5. 2" SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	2–16d
6. SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL SOLE PLATE TO JOIST OR BLOCKING, AT BRACED WALL PANELS	16d @ 16"OC 3–16d PER 16"
7. TOP PLATE TO STUD, END NAIL	2–16d
8. STUD TO SOLE PLATE	4–8d, TOENAIL OR 2–16d, END NAIL
9. DOUBLE STUDS, FACE NAIL	16d @ 24"OC
10. DOUBLE TOP PLATES, FACE NAIL DOUBLE TOP PLATES, LAP SPLICE	16d @ 16"OC 8–16d
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL	3–8d
12. RIM JOIST TO TOP PLATE, TOENAIL	8d @ 6"OC
13. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL	2–16d
14. CONTINUOUS HEADER, TWO PIECES	16d @ 16"OC ALONG EA. EDGE
15. CEILING JOIST TO PLATE, TOENAIL	3–8d
16. CONTINUOUS HEADER TO STUD, TOENAIL	4–8d
17. CEILING JOIST, LAPS OVER PARTITIONS, FACE NAIL	3–16d
18. CEILING JOIST TO PARALLEL RAFTERS, FACE NAIL	3–16d
19. RAFTER TO PLATE, TOENAIL	3–8d
20. 1" BRACE TO EA. STUD AND PLATE, FACE NAIL	2–8d
21. 1"x8" SHEATHING OR LESS TO EA. BEARING, FACE NAIL	2–8d
22. WIDER THAN 1"x8" SHEATHING TO EA. BEARING, FACE NAIL	3–8d
23. BUILT–UP CORNER STUDS	16d @ 24"OC
24. BUILT–UP GIRDER AND BEAMS	20d @ 32"OC AT TOP AND BOTTOM AND STAGGERED 2–20d @ EA. ENDS AND AT EA SPLICE
25. TRUSS TO PLATE, TOENAIL	3–16d

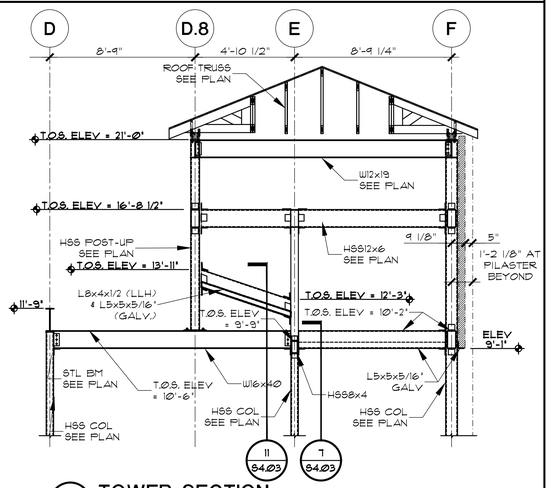
1 **NAILING SCHEDULE**
SCALE:N.T.S.



10 **GIRDER TRUSS HOLDOWN DETAIL AT WALL CORNERS**
SCALE:N.T.S.



7 **DETAIL**
SCALE:1/4"=1'-0"



4 **TOWER SECTION**
SCALE:1/4"=1'-0"

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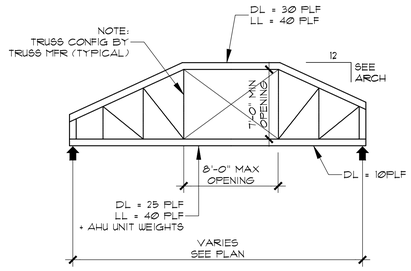
12 DETAIL
SCALE:3/4"=1'-0"

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

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



3 ROOF TRUSS PROFILE RT-3
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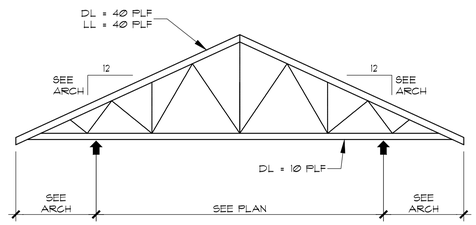
11 DETAIL
SCALE:3/4"=1'-0"

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



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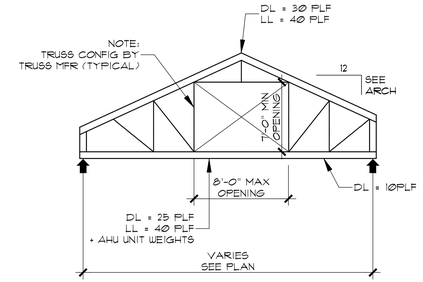
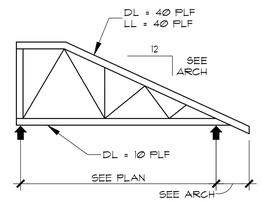


2 ROOF TRUSS PROFILE RT-2
SCALE:3/16" = 1'-0"

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

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



4 ROOF TRUSS PROFILE RT-4
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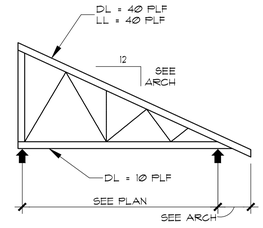

1 ROOF TRUSS PROFILE RT-1
SCALE:3/16" = 1'-0"

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Project Number : 8972

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REVISIONS

MARK	DESCRIPTION	DATE

CJG Engineers
Texas Engineering
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6051 North Course Dr•Ste 375
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713.780.3345

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STATE OF TEXAS
BRITT GARDNER
90958
LICENSED
PROFESSIONAL ENGINEER
04/01/2026

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FRAMING DETAILS

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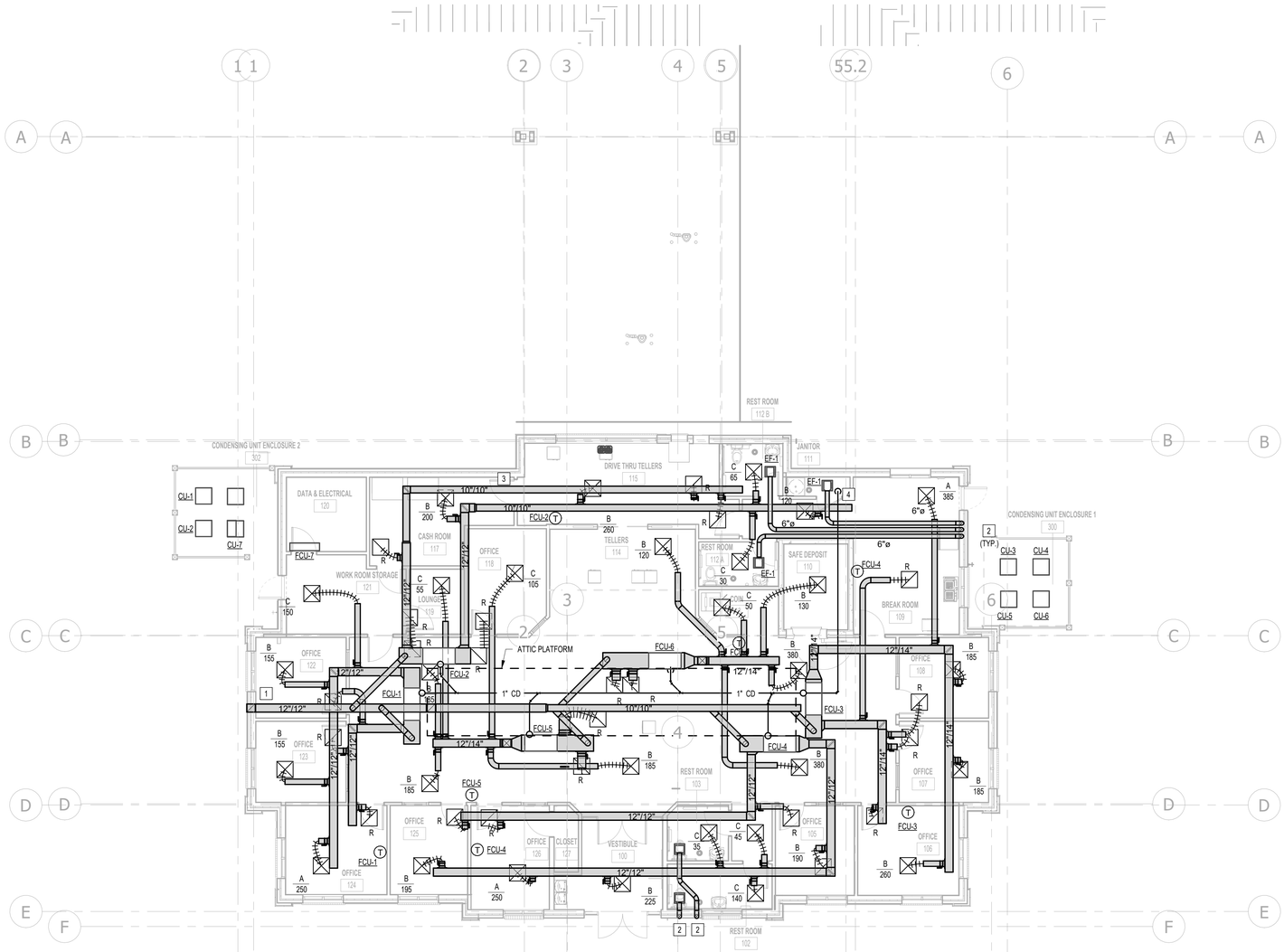
CHECKED BY	BG	S4.04
APPROVED BY	BG	

PLAN KEYED NOTES

#	NOTE
1	DOWN TO 14/12 INTAKE GRILLE IN SOFFITT
2	DOWN TO 6X4 EXHAUST GRILLE IN SOFFITT
3	BRANCH DUCTWORK TO BE ROUTED THROUGH TRUSSES.
4	1" CONDENSATE DOWN TO FFD.



1 **MECHANICAL PLAN**

1/8" = 1'-0"

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MECHANICAL PLAN

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APPROVED BY	JE	

N. CURTIS JONES, JR. 58428 REGISTERED PROFESSIONAL ENGINEER

JE#5126
04/07/2026

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Texas Registered Engineering Firm #F-3811

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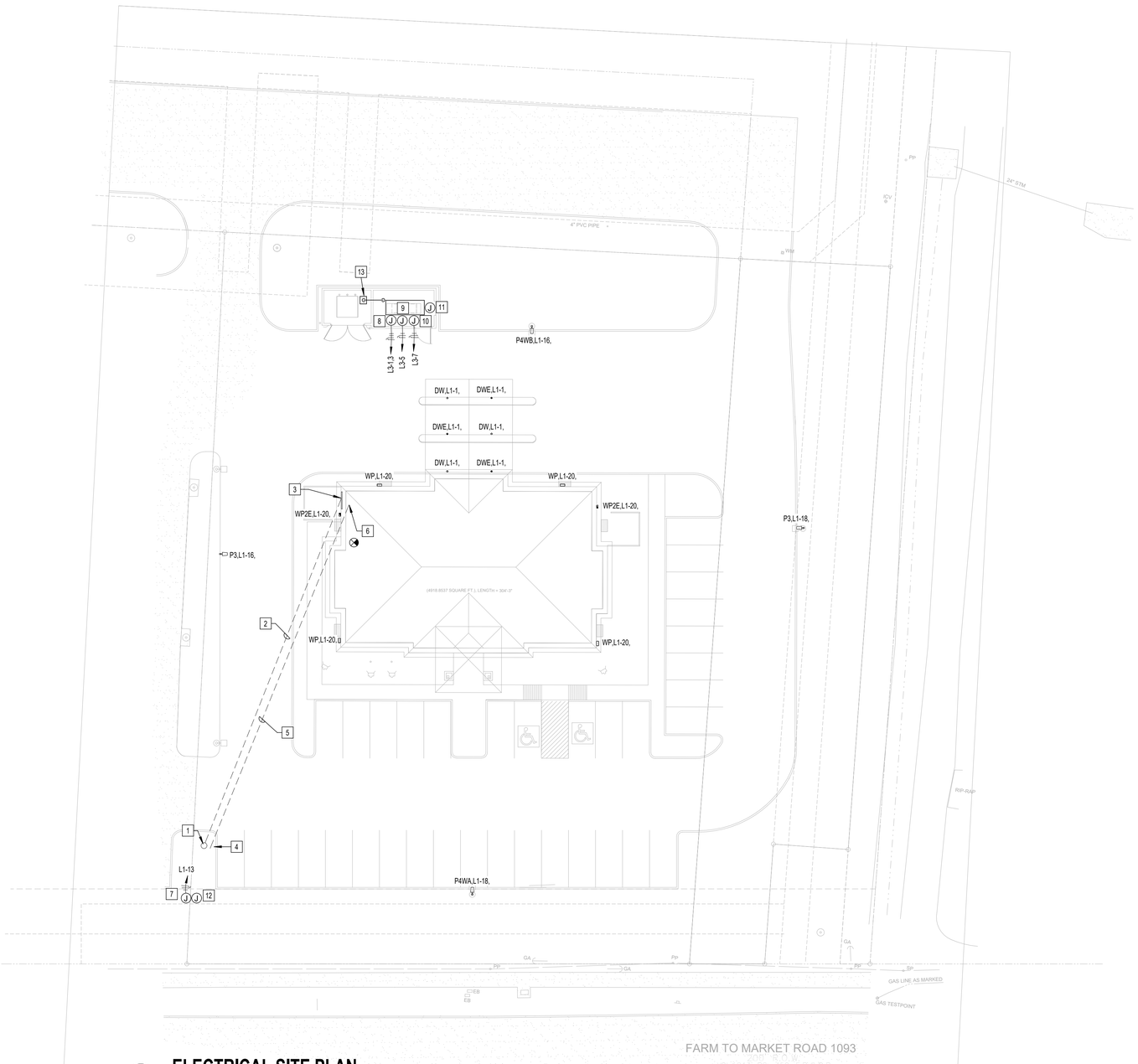

1 **ELECTRICAL SITE PLAN**
1" = 20'-0"

NOTE:
ALL ELECTRICAL DEVICE AND LIGHT FIXTURE LOCATIONS ARE APPROXIMATE. FOR EXACT LOCATION REFER TO ARCHITECTURAL DRAWINGS.

LOCATION OF ELECTRICAL SERVICE CONNECTION HAS NOT BEEN CONFIRMED. EXACT LOCATION MUST BE VERIFIED.

VERIFY EXACT LOCATION REQUIREMENTS WITH THE AUTHORIZED REPRESENTATIVE OF THE UTILITY COMPANY, AS FOLLOWS:

ELECTRICAL: CENTER POINT ENERGY

MEP KEYED NOTE

#	KEYNOTE
1	POPOSED LOCATION OF UTILITY COMPANY TRANSFORMER POLE. COORDINATE EXACT LOCATION IN FIELD.
2	PROPOSED LOCATION OF UNDERGROUND FEEDERS. COORDINATE EXACT LOCATION IN FIELD.
3	PROPOSED LOCATION OF ELECTRICAL SERVICE ENTRANCE LOCATION. COORDINATE EXACT LOCATION IN FIELD.
4	COORDINATE EXACT TERMINATION/REQUIREMENTS IN FIELD.
5	PROPOSED 2 - 4" UNDERGROUND COUDIT WITH PULL WIRE. COORDINATE EXACT LOCATION IN FIELD.
6	TO DATA ROOM. COORDINATE EXACT LOCATION IN FIELD.
7	JUNCTION BOX FOR SIGN. COORDINATE EXACT LOCATION IN FIELD.
8	JUNCTION BOX FOR ANTI-CONDENSATION HEATER. COORDINATE EXACT REQUIREMENTS IN FIELD.
9	JUNCTION BOX FOR BATTERY CHARGER. COORDINATE EXACT REQUIREMENTS IN FIELD.
10	JUNCTION BOX FOR JACKET HEATER. COORDINATE EXACT REQUIREMENTS IN FIELD.
11	2 - 1" CONDUIT WITH PULL WIRE BACK TO ELECTRICAL ROOM. COORDINATE EXACT REQUIREMENTS IN FIELD.
12	1 - 1" CONDUIT WITH PULL WIRE BACK TO ELECTRICAL ROOM. COORDINATE EXACT REQUIREMENTS IN FIELD.
13	PROPOSED GAS MATER LOCATION. PROVIDE 2" GAS LINE, 20'-0" TOTAL DEVELOPED LENGTH FROM METER TO GAS CONNECTION AT GENERATOR, 1066 CFH.

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Project Number : 8925

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STATE OF TEXAS
N. CURTIS JONES, JR.
58428
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JE#5126
04/07/2026
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Texas Registered Engineering Firm #F-3811

DRAWING TITLE
MEP SITE PLAN

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APPROVED BY	JE	

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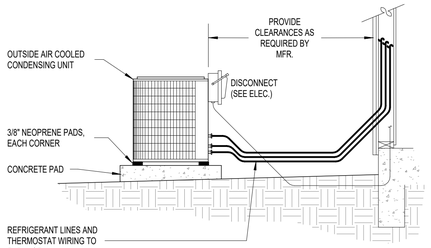
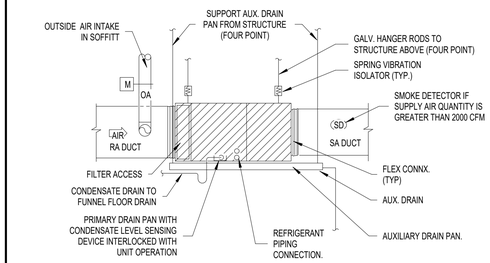


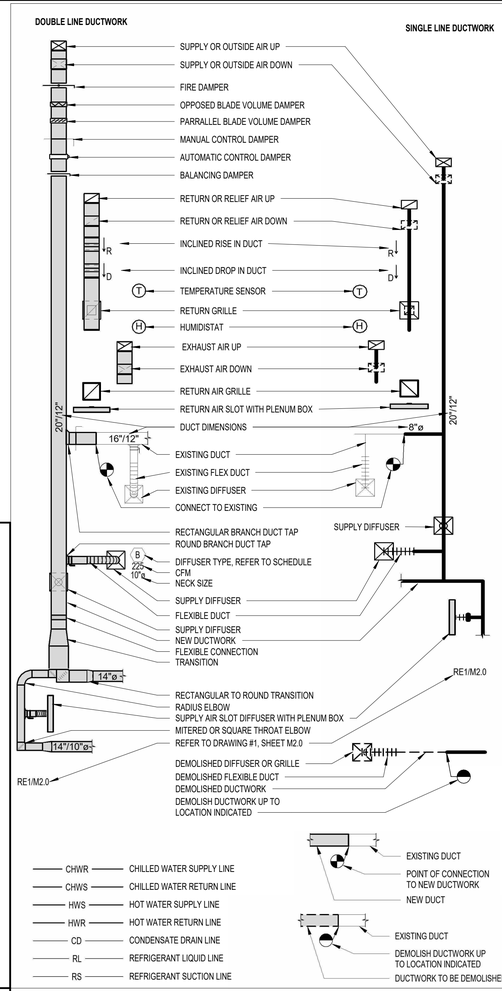
4 AIR COOLED CONDENSING UNIT

NOT TO SCALE



3 FAN COIL UNIT - SUSPENDED

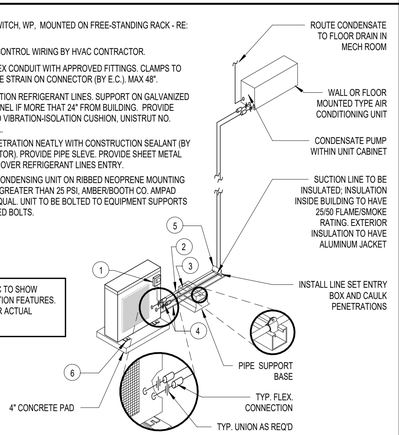
NOT TO SCALE



MECHANICAL SYMBOLS LEGEND

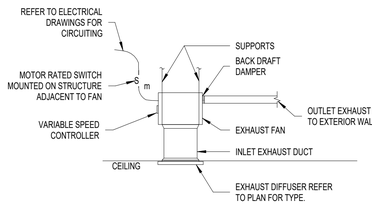
1. DISCONNECT SWITCH, WP, MOUNTED ON FREE-STANDING RACK - RE: ELECTRICAL
2. LOW VOLTAGE CONTROL WIRING BY HVAC CONTRACTOR.
3. LIQUIDTIGHT FLEX CONDUIT WITH APPROVED FITTINGS. CLAMPS TO UNIT TO MINIMIZE STRAIN ON CONNECTOR (BY E.C.). MAX 48".
4. LIQUID AND SUCTION REFRIGERANT LINES. SUPPORT ON GALVANIZED UNISTRUT CHANNEL IF MORE THAT 24" FROM BUILDING. PROVIDE PIPE CLAMP AND VIBRATION-ISOLATION CUSHION, UNISTRUT NO. P2600 OR EQUAL.
5. SEAL WALL PENETRATION NEATLY WITH CONSTRUCTION SEALANT (BY HVAC CONTRACTOR). PROVIDE PIPE SLEVE. PROVIDE SHEET METAL WEATHERHOOD OVER REFRIGERANT LINES ENTRY.
6. COMPRESSOR/CONDENSING UNIT ON RIBBED NEOPRENE MOUNTING PADS. LOAD NO GREATER THAN 25 PSI, AMBERBOOTH CO. AMPAD TYPE NRC OR EQUAL. UNIT TO BE BOLTED TO EQUIPMENT SUPPORTS WITH GALVANIZED BOLTS.

DETAIL IS SCHEMATIC TO SHOW REQUIRED INSTALLATION FEATURES. REFER TO PLANS FOR ACTUAL CONFIGURATION.



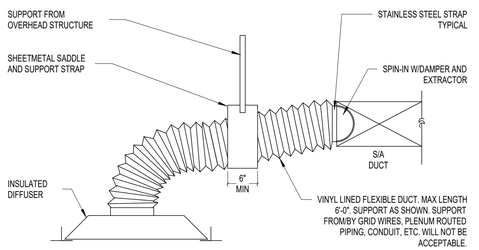
5 DUCTLESS SPLIT SYSTEM A/C UNIT

NOT TO SCALE



2 RESTROOM EXHAUST FAN

NOT TO SCALE



1 TYPICAL DIFFUSER

NOT TO SCALE

ENERGY CODE NOTES:

1. DUCT SEALING: DUCTWORK AND PLENUMS SHALL BE SEALED IN ACCORDANCE WITH THE 2015 IECC AND 2015 IMC.

2. BALANCING: SYSTEM SHALL BE BALANCED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING STANDARDS (NEBB, AABC, OR ASHRAE 111). AIR SYSTEMS SHALL BE IN A MANNER TO FIRST MINIMIZE THROTTLING LOSSES. THEN FOR FANS WITH FAN SYSTEM POWER GREATER THAN 1 HP, FAN SPEED SHALL BE ADJUSTED TO MEET DESIGN FLOW CONDITIONS.

3. ENERGY CODE COMPLETION REQUIREMENTS.

DRAWINGS: CONSTRUCTION DOCUMENTS SHALL REQUIRED THAT WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE RECORD DRAWINGS OF THE ACTUAL INSTALLATION BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER. RECORD DRAWINGS SHALL INCLUDE AS A MINIMUM THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT, GENERAL CONFIGURATION OF DUCT AND PIPE DISTRIBUTION SYSTEM INCLUDING SIZES,AND THE TERMINAL AIR OR WATER DESIGN FLOW RATES.

MANUALS: CONSTRUCTION DOCUMENTS REQUIRE THAT AN OPERATING MANUAL AND A MAINTENANCE MANUAL BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE. THESE MANUALS SHALL BE IN ACCORDANCE WITH INDUSTRY ACCEPTED STANDARDS. AND SHALL INCLUDE AT A MINIMUM THE FOLLOWING:

(A) SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
(B) OPERATING MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, EXCEPT EQUIPMENT NOT FURNISHED AS PART OF THE PROJECT. REQUIRED ROUTINE MAINTENANCE SHALL BE CLEARLY IDENTIFIED.
(C) NAMES AND ADDRESSES OF AT LEAST ONE SERVICE AGENCY.
(D) HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION INCLUDING WIRING DIAGRAMS, SCHEMATICS AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD DETERMINED SET POINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS, AT CONTROL DEVICES OR FOR DIGITAL CONTROL SYSTEMS, IN THE PROGRAMMING COMMENTS.
(E) COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING SUGGESTED SETPOINTS.

AUTOMATIC SHUTDOWN
HVAC SYSTEM SHALL BE EQUIPPED WITH CONTROLS THAT CAN START AND STOP THE SYSTEM UNDER DIFFERENT TIME SCHEDULES FOR SEVEN DIFFERENT TIMES PER WEEK, AND BE CAPABLE OF RETAINING PROGRAMMING AND TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF LESS THAN 10 HOURS AND INCLUDE AN ACCESSIBLE MANUAL OVERRIDE, OR EQUIVALENT FUNCTION THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR TWO HOURS.

SHUTOFF DAMPER CONTROLS
BOTH OUTDOOR AIR SUPPLY AND EXHAUST SYSTEMS SHALL BE EQUIPPED WITH MOTORIZED DAMPERS THAT WILL AUTOMATICALLY SHUT WHEN THE SYSTEMS OR SPACES SERVED ARE NOT IN USE. VENTILATION OUTDOOR AIR DAMPERS SHALL BE CAPABLE OF AUTOMATICALLY SHUTTING OFF DURING PREOCCUPANCY BUILDING WARM UP, COOL DOWN AND SETBACK.

NOTES:

1. DUCTWORK WITHIN THE BUILDING ENVELOPE WILL HAVE A MINIMUM INSULATION VALUE OF R-6, DUCTWORK LOCATED OUTSIDE OF THE BUILDING ENVELOPE WILL BE INSULATED WITH A MINIMUM OF R-8. DUCTWORK SHALL HAVE VAPOR RETARDERS WITH A PERM RATING NOT TO EXCEED 0.5 PERM. ALL JOINTS TO BE SEALED.

2. CONSTRUCTION - VENTILATING CEILINGS, SUSPENDED CEILING MATERIAL SHALL HAVE A CLASS 1 FLAME-SPREAD CLASSIFICATION ON BOTH SIDES. DETERMINED IN ACCORDANCE WITH THE BUILDING CODE. CEILING SUPPORTS SHALL BE OF NONCOMBUSTIBLE MATERIALS.
LIGHTING FIXTURES RECESSED INTO VENTILATING CEILINGS SHALL BE OF A TYPE APPROVED FOR THAT PURPOSE.

3. APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN PLACE. SUPPORTS FOR APPLIANCES SHALL BE DESIGNED AND CONSTRUCTED TO SUSTAIN VERTICAL AND HORIZONTAL LOADS WITHIN THE STRESS LIMITATIONS SPECIFIED IN THE IBC, SECTION 304.4 - UNIFORM MECHANICAL CODE.

GENERAL MECHANICAL NOTES:

1. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND WERE MADE FROM THE BEST INFORMATION AVAILABLE. CONFIRM ALL LOCATIONS AND DIMENSIONS IN THE FIELD. VISIT THE SITE PRIOR TO BID. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE CONDITIONS AS THEY EXIST AND NO ADDITIONAL COSTS WILL BE ALLOWED FOR READILY OBSERVABLE CONDITIONS.

2. GUARANTEE LABOR AND MATERIALS FOR 1 YEAR.

3. COORDINATE THE LOCATION OF ALL AIR DISTRIBUTION DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN INCLUDING LIGHT FIXTURES AND LIFE SAFETY DEVICES.

4. 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 NOTED OTHERWISE ON THE PLANS.

5. ALL WORK SHALL COMPLY WITH THE LOCAL BUILDING, PLUMBING, AND MECHANICAL CODES, NFPA 90A, AND ANY OTHER APPLICABLE CODES.

6. ALL LOCATIONS OF DEVICES ARE APPROXIMATE. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.

7. SEAL NEW OR EXISTING PENETRATIONS IN OF FLOORS, RATED PARTITIONS, AND CORRIDOR WALLS.

8. SECURE ALL PERMITS AND PROVIDE ANY REQUIRED TEMPORARY UTILITIES.

9. ALL WORK AND SERVICE INTERRUPTIONS SHALL BE COORDINATED WITH THE OWNER SUCH THAT THE WORK IS PERFORMED AT THE OWNERS CONVENIENCE. THIS MAY BE DURING EVENINGS AND WEEKENDS.

10. CONTRACTOR TO PROVIDE "AS-BUILT" DRAWINGS INDICATING THE CONFIGURATION OF THE CONSTRUCTED WORK.

11. SUBMIT INFORMATION ON ALL NEW EQUIPMENT IN THE FORM OF SHOP DRAWINGS. REFER TO ARCHITECTURAL SPECIFICATIONS FOR THE CORRECT PROCEDURE. PROVIDE AIR BALANCE REPORT AND SUBMIT FOR APPROVAL.

12. PROVIDE 3 COPIES OF THE OPERATION AND MAINTENANCE MANUALS TO THE OWNER. PROVIDE INSTRUCTION ON THE SYSTEM OPERATION TO THE OWNER.

13. FLEX DUCT LENGTH NOT TO EXCEED 6'-0". PROVIDE MANUAL DAMPER AT ALL TAKE-OFFS.

14. ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS. DUCTWORK SHALL BE GALVANIZED STEEL WITH MIN R-8 EXTERNAL FIBERGLASS INSULATION AND FOIL VAPOR BARRIER.

15. ALL DUCTWORK DIMENSIONS ARE CLEAR INSIDE DIMENSIONS.

16. TURNING VANES ARE REQUIRED AT EACH TURN IN THE DUCT. EXTRACTORS ARE REQUIRED AT EACH SPLIT.

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Project Number : 8925

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N. CURTIS JONES, JR. 58428 REGISTERED PROFESSIONAL ENGINEER
JE#5126
04/07/2026
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MECHANICAL DETAILS

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CHECKED BY	JE	M3.01
APPROVED BY	JE	

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Texas Registered Engineering Firm #F-3811

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AIR COOLED CONDENSING UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	COOLING DATA					ELECTRICAL					NOTES
			HIGH AMBIENT OUTDOOR TEMP [°F]	TOTAL CAPACITY [BTU]	SENSIBLE CAPACITY [MBH]	EFFICIENCY [EER]	AMBIENT DESIGN TEMP [°F]	V	PH	HZ	MCA [AMPS]	MOP [AMPS]	
CU-1	RHEEM	RH1T2421SANJA	105	24	22	14	55	208	1	60	14	20	
CU-2	RHEEM	RH1T2421SANJA	105	24	22	14	55	208	1	60	14	20	
CU-3	RHEEM	RH136421SANJA	105	36	30	14	55	208	1	60	23	35	
CU-4	RHEEM	RH1T2421SANJA	105	24	22	14	55	208	1	60	14	20	
CU-5	RHEEM	RH136421SANJA	105	36	30	14	55	208	1	60	23	35	
CU-6	RHEEM	RH136421SANJA	105	36	30	14	55	208	1	60	23	35	
CU-7	RHEEM	ROSH24AHXHJ	105	24	22	14	0	208	1	60	19	20	

NOTES:

1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR AIR TEMPERATURE OF 80°F DB / 67°F WB, OUTDOOR AIR TEMPERATURE OF 95°F (DB)
2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR AIR TEMPERATURE OF 70°F DB, OUTDOOR AIR TEMPERATURE OF 47°F DB / 43°F WB
3. DUCTLESS AND SINGLE-PHASE VRF HEAT PUMP EFFICIENCY VALUES FOR EER, SEER, AND HSPF ARE FOR MIXED DUCTED AND NON-DUCTED INDOOR UNITS BASED ON AHRI 210/240 TEST METHOD.
4. MANUFACTURER MUST BE CERTIFIED, LISTED, AND LABELED PER AHRI 1230.

FAN COIL UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	AIR		OUTSIDE AIR [CFM]	DX COOLING COIL	HEATING CAPACITY [MBH]	ELETRICAL					NOTES
			AIRFLOW (CFM)	E.S.P. [IN WC]		TOTAL CAPACITY [BTU]		V	PH	HZ	MCA [AMPS]	MOP [AMPS]	
FCU-1	RHEEM	RA1624AJ1NA	640	1.5	80	24	5.4	208	3	60	21	25	
FCU-2	RHEEM	RA1624AJ1NA	640	1.5	80	24	5.4	208	3	60	21	25	
FCU-3	RHEEM	RA1636AJ1NA	960	1.5	100	36	7.2	208	3	60	29	30	
FCU-4	RHEEM	RA1624AJ1NA	640	1.5	80	24	5.4	208	3	60	21	25	
FCU-5	RHEEM	RA1636AJ1NA	960	1.5	100	36	7.2	208	3	60	29	30	
FCU-6	RHEEM	RA1636AJ1NA	960	1.5	100	36	7.2	208	3	60	29	30	
FCU-7	RHEEM	RWH24AVFJ	800	0.25	0	24	0	208	1	60	19	20	

NOTES:

1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR AIR TEMPERATURE OF 80°F DB / 67°F WB, OUTDOOR AIR TEMPERATURE OF 95°F (DB)
2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR AIR TEMPERATURE OF 70°F DB, OUTDOOR AIR TEMPERATURE OF 47°F DB / 43°F WB
3. LEAVING AIR TEMPERATURE ESTIMATED USING FORMULA FOR SENSIBLE CAPACITY = (1.08 BTU/(HR CFM °F)) X CFM X DELTAT
4. ALL VRF ZONE CONTROLLERS TO BE LOCATED IN SECOND LEVEL MECHANICAL ROOM
5. PROVIDE CONDENSATE PUMP BY MANUFACTURER.

FAN SCHEDULE

MARK	MANU.	MODEL	FAN TYPE	CFM	E.S.P. IN. W.G.	ELECTRICAL					NOTES
						MOTOR DATA					
						WATTS	RPM	V	PH	HZ	
EF-1	GREENHECK	SP-A150	EXHAUST	70	0.25	50	1400	120	1	60	

NOTES:

1. EXTERNAL STATIC PRESSURE DOES NOT ACCOUNT FOR LOSSES DUE TO FILTERS, HOUSING, NOR ACCESSORIES.
2. PROVIDE FAN WITH MOTOR RATED TOGGLE SWITCH, VARI-GREEN DIAL MOUNTED ON EXTERIOR OF FAN HOUSING, AND VIBRATION ISOLATIORS.
3. CEILING EXHAUST W/BACK DRAFT DAMPER AND SOLID STATE SPEED CONTROL

AIR DEVICE SCHEDULE

MARK	MANU.	MODEL	TYPE	NOMINAL FACE SIZE	MAX CFM	NECK SIZE	NOISE CRITERIA (MAX) NC	NOTES
B	PRICE	TMS	HIGH PERFORMANCE SQUARE CONE DIFFUSER	24 x 24	250 CFM	8"ø	25	
A	PRICE	ASCD	HIGH PERFORMANCE SQUARE CONE DIFFUSER	24 x 24	1250 CFM	12"ø	25	
C	PRICE	ASCD	HIGH PERFORMANCE SQUARE CONE DIFFUSER	24 x 24	150 CFM	6"ø	25	
R	PRICE	50F	EGGCRATE RETURN GRILLE	24 x 24	250 CFM	8"ø	25	

N. CURTIS JONES, JR. 58428 REGISTERED PROFESSIONAL ENGINEER

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04/07/2026

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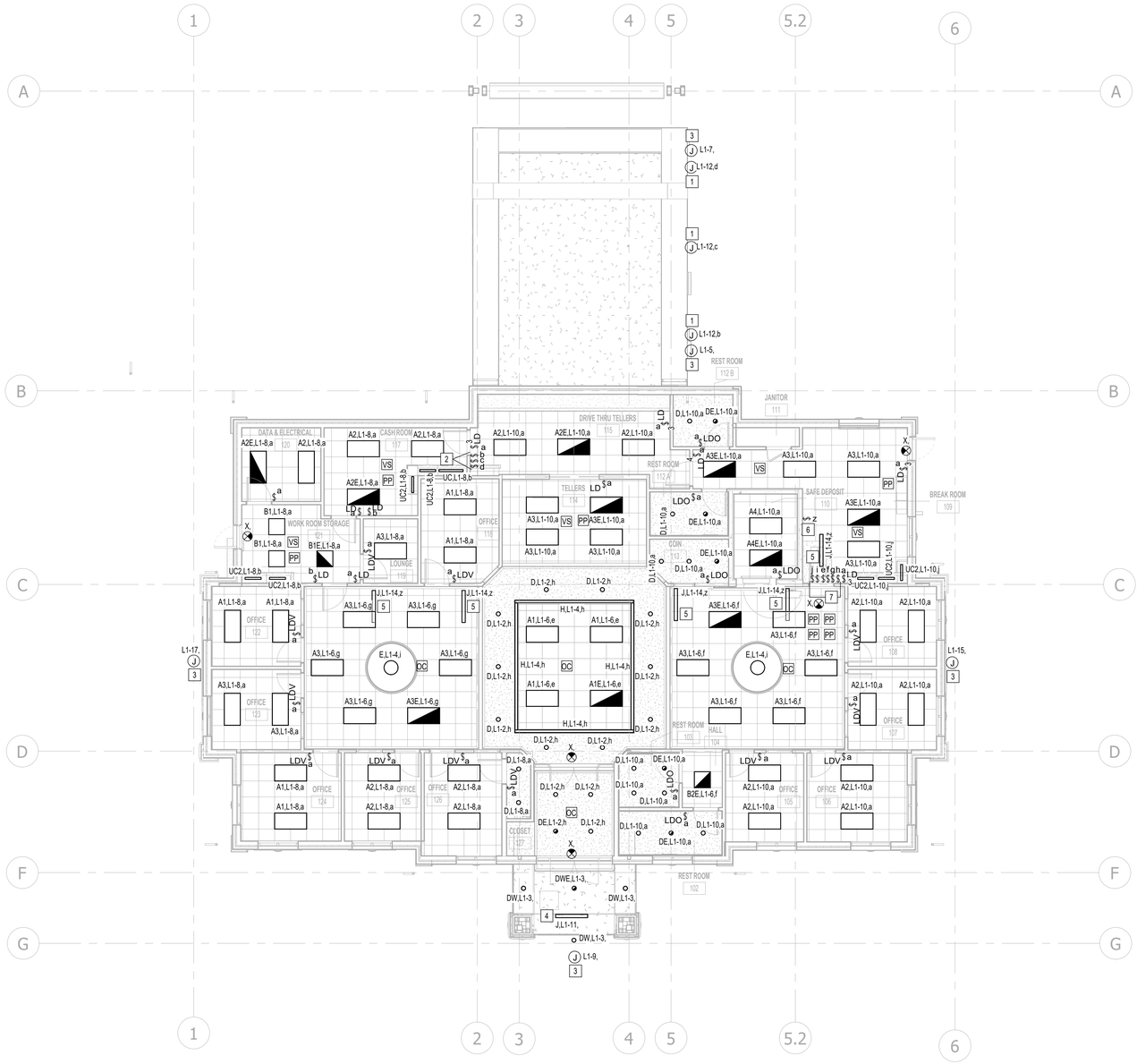

1 ELECTRICAL LIGHTING PLAN

1/8" = 1'-0"

KEYED NOTES

#	KEYNOTE
1	LANE LIGHTS PROVIDED BY BANK EQUIPMENT SUPPLIER.
2	3 POSITION SWITCH
3	SIGN, COORDIANTE EXACT REQUIREMENTS IN FIELD.
4	FIXTURE 'J'. 20' A.F.F. COORDINATE EXACT LOCATION WITH ARCHITECT.
5	LIGHT FIXTURE IN ATTIC. COORDINATE EXACT LOCATION WITH ARCHITECT.
6	SWITCH FOR LIGHT FIXTURES IN ATTIC. COORDINATE EXACT LOCATION WITH ARCHITECT.
7	LOW VOLTAGE SWITCH(S) (0-10V DIMMER).

LIGHT FIXTURE TYPE
PANEL-CIRCUIT DESIGNATION
SWITCH DESIGNATION
XX,YY,ZZ

LIGHT FIXTURE DESIGNATION

LIGHTING CONTROL LEGEND

OC	CEILING MOUNTED OCCUPANT SENSOR. PROVIDE FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSOR(S). AUTO OFF / AUTO ON.
VC	CEILING MOUNTED OCCUPANT SENSOR. PROVIDE FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSOR(S). LIGHTS MUST BE TURNED ON MANUALLY (OR OPTIONALLY CAN BE CONFIGURED TO COME ON AUTOMATICALLY TO 50%).
PP	LIGHTING CONTROL POWER PACK.
^{LD}	LOW VOLTAGE SWITCH(S) (0-10V DIMMER).
^{LDV}	WALL MOUNTED OCCUPANT SENSOR WITH 0-10V DIMMER. PROVIDE FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSOR(S). LIGHTS MUST BE TURNED ON MANUALLY (OR OPTIONALLY CAN BE CONFIGURED TO COME ON AUTOMATICALLY TO 50%).
^{LDO}	WALL MOUNTED OCCUPANT SENSOR WITH 0-10V DIMMER. PROVIDE FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSOR(S). AUTO OFF / AUTO ON.
S	LINE VOLTAGE SWITCH

ELECTRICAL LIGHTING PLAN GENERAL NOTES

A. ALL LIGHT FIXTURE LOCATIONS ARE APPROXIMATE. FOR EXACT LOCATION REFER TO ARCHITECTURAL DRAWINGS.

B. ALL OCCUPANCY SENSORS SHALL PROVIDE FULL ROOM COVERATE. PROVIDE POWER PACKS AND OVERRIDE SWITCHES AS REQUIRED FOR CONTROL INDICATED.

C. ALL CEILING MOUNTED DEVICES LOCATED IN LAY-IN CEILINGS SHALL BE CENTERED IN THE CEILING TILE.

D. MULTIPLE SWITCHES SHOWN TOGETHER SHALL BE GANGED TOGETHER UNDER A COMMON COVER PLATE.

E. PROVIDE UNSWITCHED CIRCUIT TO ALL EXIT SIGNS AS INDICATED.

F. CONTRACTOR SHALL INDICATE LIGHTING CIRCUIT CONTROLLED BY EACH SWITCH BY PROVIDING TYPE WRITTEN LABELING LOCATED ON INSIDE FACE OF EACH SWITCH COVER PLATE.

G. FIXTURES DESIGNATED "NL" SHALL BE UNSWITCHED NIGHTLIGHT.

H. EMERGENCY CIRCUITS SHALL BE ROUTED IN SEPARATE CONDUIT FOR EMERGENCY LIGHTING.

I. PROVIDE ALL EMERGENCY LIGHT FIXTURES WITH UNSWITCHED HOT LEG AS DEFINED IN NEC 700.12

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DRAWING TITLE
ELECTRICAL LIGHTING PLAN

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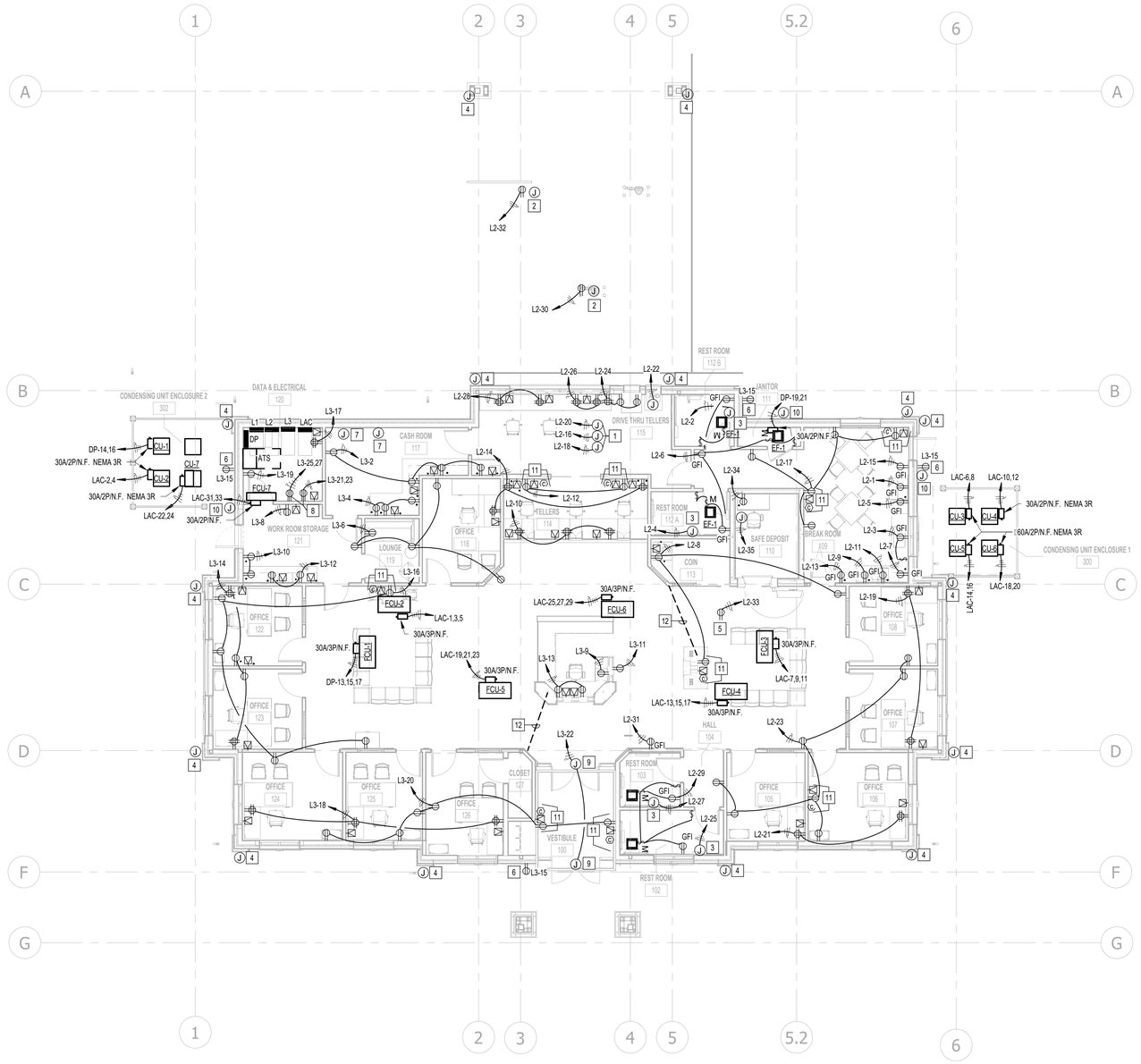
ELECTRICAL POWER PLAN GENERAL NOTES

A. ALL ELECTRICAL DEVICE LOCATIONS ARE APPROXIMATE. FOR EXACT LOCATION REFER TO ARCHITECTURAL DRAWINGS.

KEYED NOTES

#	KEYNOTE
1	TELLER - VIDEO, AUDIO AND SWITCHER. COORDINATE EXACT LOCATION IN FIELD.
2	4-1" CONDUIT WITH PULL STRING FOR AUDIO/VIDEO AND CONTROLS BACK TO TELLERS. COORDINATE EXACT REQUIREMENTS IN FIELD.
3	JUNCTION BOX FOR HAND DRYER. COORDINATE EXACT REQUIREMENTS IN FIELD.
4	JUNCTION BOX FOR SECURITY CAMERAS AT 9'-6". PROVIDE 3/4" CONDUIT WITH PULL STRING BACK TO ELECTRICAL ROOM 118. COORDINATE WITH SECURITY COMPANY PRIOR TO INSTALLATION.
5	RECEPTACLE IN ATTIC, COORDINATE EXACT LOCATION/REQUIREMENTS IN FIELD.
6	WP/GFI RECEPTACLE WITH LOCKABLE COVER. COORDINATE EXACT REQUIREMENTS IN FIELD.
7	3/4" CONDUIT TO ABOVE CEILING WITH PULL STRING. COORDINATE EXACT REQUIREMENTS IN FIELD.
8	L6-30R. COORDINATE EXACT LOCATION/REQUIREMENTS IN FIELD.
9	JUNCTION BOX FOR DOOR OPENER. COORDINATE EXACT REQUIREMENTS IN FIELD.
10	JUNCTION BOX FOR CARD READER. PROVIDE 3/4" CONDUIT TO ABOVE CEILING WITH PULL STRING. COORDINATE EXACT REQUIREMENTS IN FIELD.
11	FOR TV, REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT
12	PROPOSED ROUTING LOCATION. STUB UP UNDER FURNITURE. COORDINATE EXACT LOCATION/REQUIREMENTS IN FIELD.



1 ELECTRICAL POWER PLAN

1/8" = 1'-0"

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ELECTRICAL POWER PLAN

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SYMBOL LEGEND

SWITCHES

- S — SWITCH, SPST, 20A, 120/277V
- S3 — SWITCH, 20A, 120/277V, "2" DENOTES DPST, "3" DENOTES THREE-WAY, "4" DENOTES FOUR-WAY
- D — DIMMER CONTROL SWITCH, 1000 WATT UNLESS OTHERWISE NOTED
- SM — SWITCH, MOTION SENSOR, NOVITAS #01-133
- SOC — WALL MOUNTED OCCUPANT SENSOR WITH 0-10V DIMMER. PROVIDE ENOUGH SENSORS(CEILING OR WALL MOUNTED) FOR FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSOR(S). LIGHTS MUST BE TURNED ON MANUALLY (OR OPTIONALLY CAN BE CONFIGURED TO COME ON AUTOMATICALLY TO 50%). EATON #VSW-P-010
- HASH MARKS INDICATE NUMBER OF CONDUCTORS PHASE/NEUTRAL/SWITCH LEG/GROUND FROM LEFT TO RIGHT. NO HASH MARKS INDICATES 2#12, 1#12G, UNLESS OTHERWISE NOTED.
- UNDERGROUND CONDUIT

RECEPTACLES AND OUTLETS

- DUPLEX WALL RECEPTACLE, NEMA 5-15R, 15A, 125V OR NEMA 5-20R, 20A, 125V, RE: SPECIFICATIONS, DOT INDICATES ABOVE COUNTER.
- WP — DUPLEX WALL RECEPTACLE. "WP" DENOTES WEATHERPROOF, "TP" DENOTES SAFETY TYPE, "GFI" DENOTES GROUND FAULT PROTECTION, DOT INDICATES ABOVE COUNTER.
- FOURPLEX WALL RECEPTACLE, NEMA 5-15R, 15A, 125V. DOT INDICATES ABOVE COUNTER.
- SPECIAL RECEPTACLE, NEMA CONFIGURATION AS NOTED. DOT INDICATES ABOVE COUNTER.
- FLOOR OUTLET
- JUNCTION BOX
- DIRECT CONNECTION TO EQUIPMENT
- TELEPHONE WALL OUTLET. PROVIDE 2"X4" OUTLET BOX WITH 3/4" CONDUIT AND PULL STRING TO ABOVE CEILING.
- DATA WALL OUTLET. PROVIDE 2"X4" OUTLET BOX WITH 3/4" CONDUIT AND PULL STRING TO ABOVE CEILING.
- COMBINATION RECEPTACLE/TELEPHONE/DATA FLOOR OUTLET
- HUBBELL #B4333 FLOOR BOX
HUBBELL 1 - #S3825 AND 2 - #S3625 COVER
HUBBELL, #SB3085 CARPET FLANGE
- HUBBELL #B4233 FLOOR BOX
HUBBELL 1 - #S3825 COVER AND 1 - #S3625 COVER
HUBBELL, #SB3084 CARPET FLANGE
- HUBBELL #B2436 FLOOR BOX
HUBBELL #S3825 COVER
HUBBELL, #SB3083 CARPET FLANGE
- C — CATV. PROVIDE 2"x4" OUTLET BOX WITH 3/4" CONDUIT AND PULL STRING TO ABOVE CEILING.

ELECTRICAL EQUIPMENT

- DISTRIBUTION PANEL
- PLYWOOD TERMINAL BOARD, TYPE AS NOTED, 4' X 8' X 3/4", UNLESS NOTED OTHERWISE
- T — TRANSFORMER

MOTORS AND CONTROLS

- SINGLE OR THREE PHASE MOTOR
- DISCONNECT (SAFETY) SWITCH "200/3/150" DENOTES AMPERES/POLE/FUSE, "NF" DENOTES NON-FUSED
- MOTOR STARTER
- COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER, "30/3/15/#0" DENOTES AMPERES/POLES/FUSE/ STARTER SIZE, "NF" DENOTES NON-FUSED.
- Sm — MANUAL MOTOR STARTING WITH THERMAL OVERLOAD

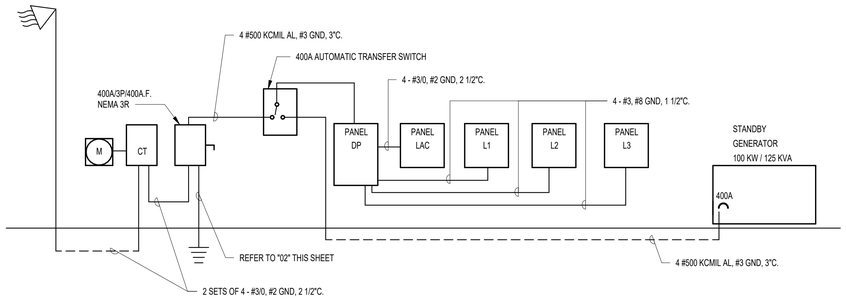
FIRE ALARM

- FACP — FIRE ALARM CONTROL PANEL (FLUSH|SURFACE)
- CEILING SPEAKER/STROBE
- WALL SPEAKER/STROBE
- CEILING STROBE
- WALL STROBE
- S — SPEAKER
- MANUAL PULL STATION
- 2 — AREA SMOKE DETECTOR, "H" HEAT DETECTOR, "DD" DUCT DETECTOR.
- W — SPRINKLER FLOW SWITCH
- T — VALVE SUPERVISORY SWITCH
- NL — NIGHT LIGHT

SERVICE LOAD ANALYSIS

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Estimated Demand Current
Lighting	5476 VA	125.00%	6844 VA	19 A
Lighting - Exterior	1447 VA	125.00%	1808 VA	5 A
Receptacle	19620 VA	75.48%	14810 VA	41 A
HVAC	57928 VA	100.00%	57928 VA	161 A
Power	28060 VA	100.00%	28060 VA	78 A
25% Largest Motor	500 VA	100.00%	500 VA	1 A
Total Connected Load (VA):	112966 VA	**Total Demand Load (VA):**		109871 VA
		Total Current:		305 A

120/208 Wye, 3 Phase, 4 Wire Service



1 ELECTRICAL ONE LINE DIAGRAM

N.T.S.

GENERATOR LOAD ANALYSIS

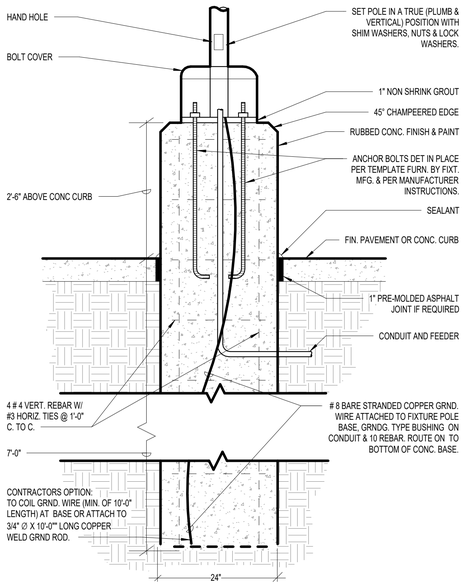
Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Estimated Demand Current
Lighting	5476 VA	125.00%	6844 VA	19 A
Lighting - Exterior	1447 VA	125.00%	1808 VA	5 A
Receptacle	19620 VA	75.48%	14810 VA	41 A
Power	28060 VA	100.00%	28060 VA	78 A
HVAC	57928 VA	100.00%	57928 VA	161 A
Total Connected Load (VA):	112466 VA	**Total Demand Load (VA):**		109371 VA
		Total Current:		304 A

120/208 Wye, 3 Phase, 4 Wire Service

SPD SCHEDULE

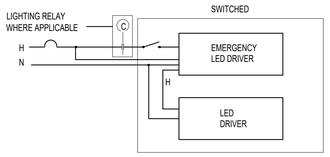
MARK	MODEL	CABLE SIZE
SPD1	120KA PER PHASE, 120/208 3P	5 #10, 1 1/2" C
SPD2	80KA PER PHASE, 120/208 3P	5 #10, 1 1/2" C

NOTE:
PAINT EXPOSED PORTION OF CONCRETE BASE TO MATCH FINISH OF FIXTURE HEAD. POLE & BOLT COVER (ALL ARE TO MATCH DARK BRONZ FINISH.)



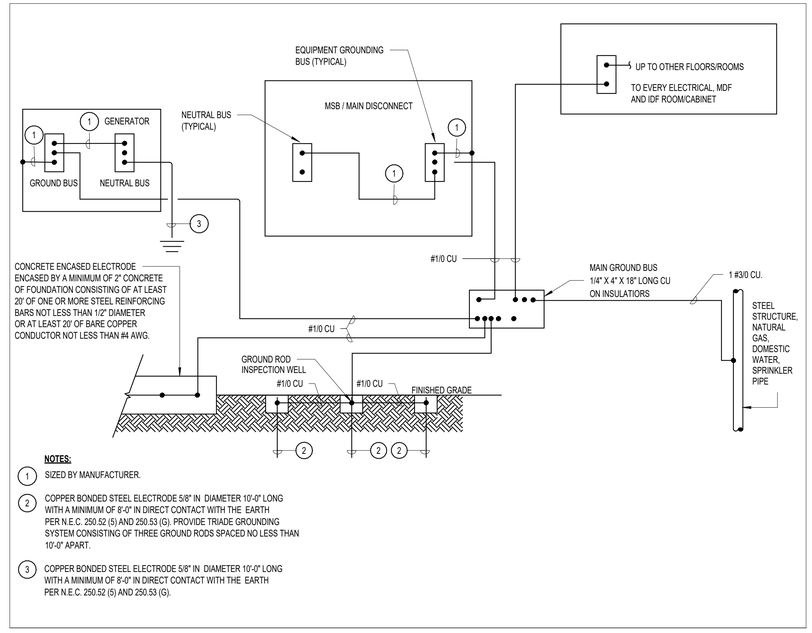
3 LIGHT POLE DETAIL

N.T.S.



4 TYPICAL EMERGENCY LED DRIVER WIRING

12" = 1'-0"



NOTES:

1. SIZED BY MANUFACTURER.
2. COPPER BONDED STEEL ELECTRODE 5/8" IN DIAMETER 10'-0" LONG WITH A MINIMUM OF 8'-0" IN DIRECT CONTACT WITH THE EARTH PER N.E.C. 250.52 (5) AND 250.53 (G). PROVIDE TRIADE GROUNDING SYSTEM CONSISTING OF THREE GROUND RODS SPACED NO LESS THAN 10'-0" APART.
3. COPPER BONDED STEEL ELECTRODE 5/8" IN DIAMETER 10'-0" LONG WITH A MINIMUM OF 8'-0" IN DIRECT CONTACT WITH THE EARTH PER N.E.C. 250.52 (5) AND 250.53 (G).

2 ELECTRICAL GROUNDING DETAILS

12" = 1'-0"

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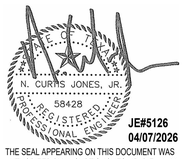

JE#5126
04/07/2026
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DRAWING TITLE
ELECTRICAL DETAILS

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BRANCH PANEL: DP

LOCATION: DATA & ELECTRICAL 120
SUPPLY FROM: ATS
MOUNTING: SURFACE
ENCLOSURE: Type 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING:
MAINS TYPE: MCB
MAINS RATING: 400 A
MCB RATING:

NOTES:

CKT	CIRCUIT DESCRIPTION	WIRE	TRIP	POLES	A		B		C		POLES	TRIP	WIRE	CIRCUIT DESCRIPTION	CKT
1	PANEL LAC		200 A	3	17.4...	3.9 kVA					3	100 A		PANEL L1	2
3	--	--	--	--			17.4 kVA	5.1 kVA			--	--	--	--	4
5	--	--	--	--					15.5 kVA	4.9 kVA	--	--	--	--	6
7	PANEL L2		100 A	3	8.0 kVA	6.8 kVA					3	100 A		PANEL L3	8
9	--	--	--	--			8.0 kVA	3.9 kVA			--	--	--	--	10
11	--	--	--	--					7.2 kVA	4.2 kVA	--	--	--	--	12
13	FCU-1	#12	25 A	3	2.5 kVA	0.0 kVA					2	20 A	#12	CU-1	14
15	--	--	--	--			2.5 kVA	0.0 kVA			--	--	--	--	16
17	--	--	--	--					2.5 kVA	--	1	--		SPACE	18
19	EWH-1	#12	20 A	2	1.3 kVA	--					1	--		SPACE	20
21	--	--	--	--			1.3 kVA	--			1	--		SPACE	22
23	SPACE		--	1					--	--	1	--		SPACE	24
25	SPACE		--	1	--	--					1	--		SPACE	26
27	SPACE		--	1			--	--			1	--		SPACE	28
29	SPACE		--	1					--	--	1	--		SPACE	30
31	SPACE		--	1	--	--					1	--		SPACE	32
33	SPACE		--	1			--	--			1	--		SPACE	34
35	SPACE		--	1					--	--	1	--		SPACE	36
37	SPACE		--	1	--	0.0 kVA					3	30 A		SPD1	38
39	SPACE		--	1			--	0.0 kVA			--	--	--	--	40
41	SPACE		--	1					--	0.0 kVA	--	--	--	--	42
			TOTAL LOAD:		39852 VA		38121 VA		34314 VA						
			TOTAL AMPS:		337 A		323 A		286 A						

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	57928 VA	100.00%	57928 VA		
Lighting	5476 VA	125.00%	6844 VA	**TOTAL CONN. LOAD:**	112466 VA
Lighting - Exterior	1447 VA	125.00%	1808 VA	**TOTAL EST. DEMAND:**	109371 VA
Power	28060 VA	100.00%	28060 VA	**TOTAL CONN.:**	312 A
Receptacle	19620 VA	75.48%	14810 VA	**TOTAL EST. DEMAND:**	304 A

NOTES:

BRANCH PANEL: LAC

LOCATION: DATA & ELECTRICAL 120
SUPPLY FROM: DP
MOUNTING: SURFACE
ENCLOSURE: Type 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING:
MAINS TYPE: MLO
MAINS RATING: 200 A
MCB RATING:

NOTES:

CKT	CIRCUIT DESCRIPTION	WIRE	TRIP	POLES	A		B		C		POLES	TRIP	WIRE	CIRCUIT DESCRIPTION	CKT
1	FCU-2	#12	25 A	3	2.5 kVA	0.0 kVA					2	20 A	#12	CU-2	2
3	--	--	--	--			2.5 kVA	0.0 kVA			--	--	--	--	4
5	--	--	--	--					2.5 kVA	0.0 kVA	2	35 A	#10	CU-3	6
7	FCU-3	#10	30 A	3	3.5 kVA	0.0 kVA					--	--	--	--	8
9	--	--	--	--			3.5 kVA	0.0 kVA			2	20 A	#12	CU-4	10
11	--	--	--	--					3.5 kVA	0.0 kVA	--	--	--	--	12
13	FCU-4	#12	25 A	3	2.5 kVA	0.0 kVA					2	35 A	#10	CU-5	14
15	--	--	--	--			2.5 kVA	0.0 kVA			--	--	--	--	16
17	--	--	--	--					2.5 kVA	0.0 kVA	2	35 A	#10	CU-6	18
19	FCU-5	#10	30 A	3	3.5 kVA	0.0 kVA					--	--	--	--	20
21	--	--	--	--			3.5 kVA	0.0 kVA			2	20 A	#12	CU-7	22
23	--	--	--	--					3.5 kVA	0.0 kVA	--	--	--	--	24
25	FCU-6	#10	30 A	3	3.5 kVA	--					1	--		SPACE	26
27	--	--	--	--			3.5 kVA	--			1	--		SPACE	28
29	--	--	--	--					3.5 kVA	--	1	--		SPACE	30
31	FCU-7	#12	20 A	2	2.0 kVA	--					1	--		SPACE	32
33	--	--	--	--			2.0 kVA	--			1	--		SPACE	34
35	SPACE		--	1					--	--	1	--		SPACE	36
37	SPACE		--	1	--	0.0 kVA					3	30 A		SPD2	38
39	SPACE		--	1			--	0.0 kVA			--	--	--	--	40
41	SPACE		--	1					--	0.0 kVA	--	--	--	--	42
			TOTAL LOAD:		17449 VA		17449 VA		15473 VA						
			TOTAL AMPS:		148 A		148 A		129 A						

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	50371 VA	100.00%	50371 VA		
				TOTAL CONN. LOAD:	50371 VA
				TOTAL EST. DEMAND:	50371 VA
				TOTAL CONN.:	140 A
				TOTAL EST. DEMAND:	140 A

NOTES:

BRANCH PANEL: L1

LOCATION: DATA & ELECTRICAL 120
SUPPLY FROM: DP
MOUNTING: SURFACE
ENCLOSURE: Type 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING:
MAINS TYPE: MLO
MAINS RATING: 100 A
MCB RATING:

NOTES:

CKT	CIRCUIT DESCRIPTION	WIRE	TRIP	POLES	A		B		C		POLES	TRIP	WIRE	CIRCUIT DESCRIPTION	CKT
1	DRIVE THRU CANOPY LIGHTS *	#12	20 A	1	0.2 kVA	0.2 kVA					1	20 A	#12	LIGHTING	2
3	LIGHTING - EXTERIOR *	#12	20 A	1			0.1 kVA	1.1 kVA			1	20 A	#12	LIGHTING	4
5	SIGN *	#12	20 A	1					1.2 kVA	0.5 kVA	1	20 A	#12	LIGHTING	6
7	SIGN *	#12	20 A	1	1.2 kVA	0.9 kVA					1	20 A	#12	LIGHTING	8
9	SIGN *	#12	20 A	1			1.2 kVA	1.0 kVA			1	20 A	#12	LIGHTING	10
11	TOWER LIGHTS *	#12	20 A	1					0.0 kVA	1.5 kVA	1	20 A	#12	LANE LIGHTS	12
13	SIGN *	#10	20 A	1	1.0 kVA	0.2 kVA					1	20 A	#12	LIGHTING ATTIC	14
15	SIGN *	#12	20 A	1			1.2 kVA	0.5 kVA			1	20 A	#10	LIGHTING - EXTERIOR *	16
17	SIGN *	#12	20 A	1					1.2 kVA	0.5 kVA	1	20 A	#10	LIGHTING - EXTERIOR *	18
19						0.2 kVA					1	20 A	#12	LIGHTING - EXTERIOR *	20
21	SPARE		20 A	1			0.0 kVA	0.0 kVA			1	20 A		SPARE	22
23	SPARE		20 A	1					0.0 kVA	0.0 kVA	1	20 A		SPARE	24
25	SPARE		20 A	1	0.0 kVA	0.0 kVA					1	20 A		SPARE	26
27	SPARE		20 A	1			0.0 kVA	0.0 kVA			1	20 A		SPARE	28
29	SPARE		20 A	1					0.0 kVA	0.0 kVA	1	20 A		SPARE	30
31	SPARE		20 A	1	0.0 kVA	0.0 kVA					1	20 A		SPARE	32
33	SPARE		20 A	1			0.0 kVA	0.0 kVA			1	20 A		SPARE	34
35	SPARE		20 A	1					0.0 kVA	0.0 kVA	1	20 A		SPARE	36
37	SPARE		20 A	1	0.0 kVA	0.0 kVA					3	30 A		SPD2	38
39	SPARE		20 A	1			0.0 kVA	0.0 kVA			--	--	--	--	40
41	SPARE		20 A	1					0.0 kVA	0.0 kVA	--	--	--	--	42
			TOTAL LOAD:		3874 VA		5067 VA		4926 VA						
			TOTAL AMPS:		32 A		44 A		42 A						

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Lighting	5476 VA	125.00%	6844 VA		
Lighting - Exterior	1447 VA	125.00%	1808 VA	**TOTAL CONN. LOAD:**	13864 VA
Power	7000 VA	100.00%	7000 VA	**TOTAL EST. DEMAND:**	15581 VA
				TOTAL CONN.:	38 A
				TOTAL EST. DEMAND:	43 A

NOTES:
* - EXTERIOR LIGHTING CONTROL:
AUTO OFF WHEN DAYLIGHT AVAILIABLE. FACADE, LANDSCAPE LIGHTS AUTO OFF WITH FUNCTION OF DUSK/DAWN AND OPEN CLOSE TIME.
REDUCE LIGHTING >= 30% NO LATER THAN MIDNIGHT TO 6am, ONE HOUR AFTER CLOSING TO ONE HOUR BEFORE OPENING, OR WHEN NO ACTIVITY FOR > 15 MINUTES.
PROVIDE 20A POWER PACK(S) AS REQUIRED.

LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	MOUNTING	LAMPS/WATTS	TYPE	VOLTS	REMARKS
INTERIOR						
A1	WILLIAMS #FT-24-LS-8CS-AF-DIM-UNV	RECESSED	48	LED	UNV	
A1E	WILLIAMS #LT-24-L64/835-AF-DIM-UNV-EM/10W	RECESSED	48.5	LED	UNV	WITH 90 MINUTE BATTERY BACKUP
A2	WILLIAMS #FT-24-LS-8CS-AF-DIM-UNV	RECESSED	39	LED	UNV	
A2E	WILLIAMS #FT-24-LS-8CS-AF-DIM-UNV-EM/10W	RECESSED	39	LED	UNV	WITH 90 MINUTE BATTERY BACKUP
A3	WILLIAMS #FT-24-LS-8CS-AF-DIM-UNV	RECESSED	27	LED	UNV	
A3E	WILLIAMS #FT-24-LS-8CS-AF-DIM-UNV-EM/10W	RECESSED	27	LED	UNV	WITH 90 MINUTE BATTERY BACKUP
A4	WILLIAMS #50G-S24-L33/835-SAF12125-DIM-UNV	RECESSED	24.9	LED	UNV	
A4E	WILLIAMS #50G-S24-L33/835-SAF12125-DIM-UNV-EM/10W	RECESSED	24.9	LED	UNV	WITH 90 MINUTE BATTERY BACKUP
B1	WILLIAMS #FT-22-LC-8CS-AF-DIM-UNV	RECESSED	33	LED	UNV	
B1E	WILLIAMS #FT-22-LC-8CS-AF-DIM-UNV-EM/10W	RECESSED	33	LED	UNV	WITH 90 MINUTE BATTERY BACKUP
B2E	WILLIAMS #FT-22-LC-8CS-AF-DIM-UNV-EM/10W	RECESSED	24	LED	UNV	WITH 90 MINUTE BATTERY BACKUP
D	WILLIAMS #4FDR--LS-8CS-CS-DIM-UNV	RECESSED	14	LED	UNV	
DE	WILLIAMS #4FDR-LS-8CS-CS-DIM-UNV-EM/10W	RECESSED	14	LED	UNV	WITH 90 MINUTE BATTERY BACKUP
E	PENDANT TO BE SELECTED	PENDANT	4-100	LED	UNV	
H	INVISILED PRO 3 #LED-TE24-30-XX-WT	SURFACE	5W/FT	LED	UNV	COORDINATE THE NUMBER OF DRIVERS PER LENGHT OF LIGHT.
J	SLG #TSS-4-30/40/50-G1-FSK	SURFACE	40	LED	UNV	
UC	RAB LIGHTING #KNOOKFA-24-3500K-W-120	SURFACE	17	LED	UNV	
UC2	RAB LIGHTING #KNOOKFA-32-3500K-W-120	SURFACE	11	LED	UNV	
X	COMPASS #CEG	SURFACE	1.5	LED	UNV	WITH 90 MINUTE BATTER BACKUP
EXTERIOR						
DW	Halo #HCB15D010-HM60525840-61MDH	RECESSED	28	LED	UNV	*
DWE	Halo HC615D010-HM60525840-61MDH	RECESSED	28	LED	UNV	*, WITH 90 MINUTE BATTERY BACKUP
P3	MCGRAW EDISON #GALN-SA4D-740-U-T3-LS-HSS	25' POLE	245	LED	UNV	*
P4WA	MCGRAW EDISON #GALN-SA4D-740-U-T4W-LS-HSS	25' POLE	245	LED	UNV	*
P4WB	MCGRAW EDISON #GALN-SA4D-740-U-T4W	25' POLE	245	LED	UNV	*
WP	McGraw Edison #GKO-PB2B-740-U-T4W	SURFACE	60	LED	UNV	*
WP2E	McGraw Edison #GKO-PB2B-740-U-T4W	SURFACE	60	LED	UNV	*, WITH 90 MINUTE BATTERY BACKUP

* - EXTERIOR LIGHTING CONTROL:
AUTO OFF WHEN DAYLIGHT AVAILIABLE. FACADE, LANDSCAPE LIGHTS AUTO OFF WITH FUNCTION OF DUSK/DAWN AND OPEN CLOSE TIME.
REDUCE LIGHTING >= 30% NO LATER THAN MIDNIGHT TO 6am, ONE HOUR AFTER CLOSING TO ONE HOUR BEFORE OPENING, OR WHEN NO ACTIVITY FOR > 15 MINUTES.
PROVIDE 20A POWER PACK(S) AS REQUIRED.

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REVISIONS

MARK	DESCRIPTION	DATE
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DRAWING TITLE
ELECTRICAL DETAILS

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BRANCH PANEL: L2

LOCATION: DATA & ELECTRICAL 120
SUPPLY FROM: DP
MOUNTING: SURFACE
ENCLOSURE: Type 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING:
MAINS TYPE: MLO
MAINS RATING: 100 A
MCB RATING:

NOTES:

CKT	CIRCUIT DESCRIPTION	WIRE	TRIP	POLES	A	B	C	POLES	TRIP	WIRE	CIRCUIT DESCRIPTION	CKT
1	REFRIG 109	#10	20 A	1	0.5 kVA	1.2 kVA		1	20 A	#10	HAND DRYER 112A	2
3	DISPOSAL 109	#10	20 A	1		0.5 kVA	1.2 kVA	1	20 A	#10	HAND DRYER 112B	4
5	RECEPTACLE 109	#10	20 A	1			0.2 kVA	0.5 kVA	1	20 A	#12	RECEPTACLES 112A, 112B	6
7	RECEPTACLE 109	#10	20 A	1	0.2 kVA	0.5 kVA			1	20 A	#12	RECEPTACLES 101, 110	8
9	MICROWAVE 109	#10	20 A	1		1.0 kVA	1.1 kVA		1	20 A	#12	RECEPTACLES 114	10
11	RECEPTACLE 109	#10	20 A	1			0.2 kVA	0.4 kVA	1	20 A	#12	RECEPTACLES 114	12
13	RECEPTACLE 109	#10	20 A	1	0.2 kVA	0.7 kVA			1	20 A	#12	RECEPTACLES 114, 117	14
15	RECEPTACLE 109	#10	20 A	1		0.2 kVA	0.5 kVA		1	20 A	#12	TELLER VIDEO 115	16
17	RECEPTACLE 109	#10	20 A	1			0.9 kVA	0.5 kVA	1	20 A	#12	TELLER AUDIO 115	18
19	RECEPTACLE 107, 108	#10	20 A	1	0.7 kVA	0.5 kVA			1	20 A	#12	TELLER SWITCHER 115	20
21	RECEPTACLE 151, 106	#10	20 A	1		0.7 kVA	0.5 kVA		1	20 A	#12	NIGHT DEPOSIT 115	22
23	RECEPTACLE 101, 105, 106, 107, 108	#10	20 A	1			1.3 kVA	0.7 kVA	1	20 A	#12	RECEPTACLES 115	24
25	HAND DRYER 102	#10	20 A	1	1.2 kVA	0.7 kVA			1	20 A	#12	RECEPTACLES 115	26
27	HAND DRYER 103	#10	20 A	1		1.2 kVA	0.7 kVA		1	20 A	#12	RECEPTACLES 115	28
29	RECEPTACLE 102, 103	#12	20 A	1			0.4 kVA	1.0 kVA	1	20 A	#12	PNEUMATIC TUBE	30
31	EDF 101	#10	20 A	1	0.5 kVA	1.0 kVA			1	20 A	#12	PNEUMATIC TUBE	32
33	RECEPTACLE ATTIC	#12	20 A	1		0.2 kVA	0.2 kVA		1	20 A	#10	RECEPTACLES 110	34
35	SAFE DEPOSIT JUNCTION BOX	#10	20 A	1			1.2 kVA	0.0 kVA	1	20 A		SPARE	36
37	SPARE		20 A	1	0.0 kVA	0.0 kVA			3	30 A		SPD2	38
39	SPARE		20 A	1		0.0 kVA	0.0 kVA		--	--	--	--	40
41	SPARE		20 A	1			0.0 kVA	0.0 kVA	--	--	--	--	42
			TOTAL LOAD:		7960 VA	7960 VA	7200 VA					
			TOTAL AMPS:		67 A	67 A	60 A					

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Power	12500 VA	100.00%	12500 VA		
Receptacle	10620 VA	97.08%	10310 VA	**TOTAL CONN. LOAD:**	23120 VA
				TOTAL EST. DEMAND:	22810 VA
				TOTAL CONN.:	64 A
				TOTAL EST. DEMAND:	63 A

NOTES:
* - EXTERIOR LIGHTING CONTROL:
AUTO OFF WHEN DAYLIGHT AVAILIABLE. FACADE, LANDSCAPE LIGHTS AUTO OFF WITH FUNCTION OF DUSK/DAWN AND OPEN CLOSE TIME.
REDUCE LIGHTING >= 30% NO LATER THAN MIDNIGHT TO 6am, ONE HOUR AFTER CLOSING TO ONE HOUR BEFORE OPENING, OR WHEN NO ACTIVITY FOR > 15 MINUTES.
PROVIDE 20A POWER PACK(S) AS REQUIRED.

BRANCH PANEL: L3

LOCATION: DATA & ELECTRICAL 120
SUPPLY FROM: DP
MOUNTING: SURFACE
ENCLOSURE: Type 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING:
MAINS TYPE: MLO
MAINS RATING: 100 A
MCB RATING:

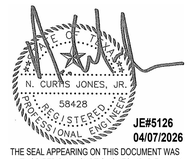
NOTES:

CKT	CIRCUIT DESCRIPTION	WIRE	TRIP	POLES	A	B	C	POLES	TRIP	WIRE	CIRCUIT DESCRIPTION	CKT
1	ANTI-CONDENSATION HEATER	#10	20 A	2	1.0 kVA	0.7 kVA		1	20 A	#12	RECEPTACLES 115, 116	2
3	--	--	--	--		0.0 kVA	0.5 kVA	1	20 A	#12	RECEPTACLES 116	4
5	BATTERY CHARGER	#10	20 A	1			1.0 kVA	0.9 kVA	1	20 A	#12	RECEPTACLES 101, 117, 119, 125	6
7	JACKET HEATER	#10	20 A	1	1.0 kVA	1.2 kVA			1	20 A	#12	COPIER 119	8
9	RECEPTACLES POPCORN MACHINE 101	#12	20 A	1		1.0 kVA	0.4 kVA		1	20 A	#12	RECEPTACLES 119	10
11	MINI REFRIDGE 101	#12	20 A	1			0.5 kVA	0.4 kVA	1	20 A	#12	RECEPTACLES 119	12
13	RECEPTACLES 101	#12	20 A	1	0.4 kVA	1.1 kVA			1	20 A	#12	RECEPTACLES 120, 121	14
15	RECEPTACLES EXTERIOR	#10	20 A	1		0.7 kVA	0.9 kVA		1	20 A	#12	RECEPTACLES 101, 120	16
17	RECEPTACLES 118	#12	20 A	1			0.4 kVA	1.1 kVA	1	20 A	#12	RECEPTACLES 122, 123, 124	18
19	RECEPTACLES 118	#12	20 A	1	0.2 kVA	1.1 kVA			1	20 A	#12	RECEPTACLES 100, 122, 123, 124	20
21	RECEPTACLES 118	#10	30 A	2		0.2 kVA	0.4 kVA		1	20 A	#12	DOOR OPENER	22
23	--	--	--	--			0.0 kVA	0.0 kVA	1	20 A		SPARE	24
25	RECEPTACLES 118	#10	30 A	2	0.2 kVA	0.0 kVA			1	20 A		SPARE	26
27	--	--	--	--		0.0 kVA	0.0 kVA		1	20 A		SPARE	28
29	SPARE		20 A	1			0.0 kVA	0.0 kVA	1	20 A		SPARE	30
31	SPARE		20 A	1	0.0 kVA	0.0 kVA			1	20 A		SPARE	32
33	SPARE		20 A	1		0.0 kVA	0.0 kVA		1	20 A		SPARE	34
35	SPARE		20 A	1			0.0 kVA	0.0 kVA	1	20 A		SPARE	36
37	SPARE		20 A	1	0.0 kVA	0.0 kVA			3	30 A		SPD2	38
39	SPARE		20 A	1		0.0 kVA	0.0 kVA		--	--	--	--	40
41	SPARE		20 A	1			0.0 kVA	0.0 kVA	--	--	--	--	42
			TOTAL LOAD:		6800 VA	4060 VA	4200 VA					
			TOTAL AMPS:		57 A	34 A	35 A					

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Power	6060 VA	100.00%	6060 VA		
Receptacle	8820 VA	100.00%	8820 VA	**TOTAL CONN. LOAD:**	14880 VA
				TOTAL EST. DEMAND:	14880 VA
				TOTAL CONN.:	41 A
				TOTAL EST. DEMAND:	41 A

NOTES:
* - EXTERIOR LIGHTING CONTROL:
AUTO OFF WHEN DAYLIGHT AVAILIABLE. FACADE, LANDSCAPE LIGHTS AUTO OFF WITH FUNCTION OF DUSK/DAWN AND OPEN CLOSE TIME.
REDUCE LIGHTING >= 30% NO LATER THAN MIDNIGHT TO 6am, ONE HOUR AFTER CLOSING TO ONE HOUR BEFORE OPENING, OR WHEN NO ACTIVITY FOR > 15 MINUTES.
PROVIDE 20A POWER PACK(S) AS REQUIRED.



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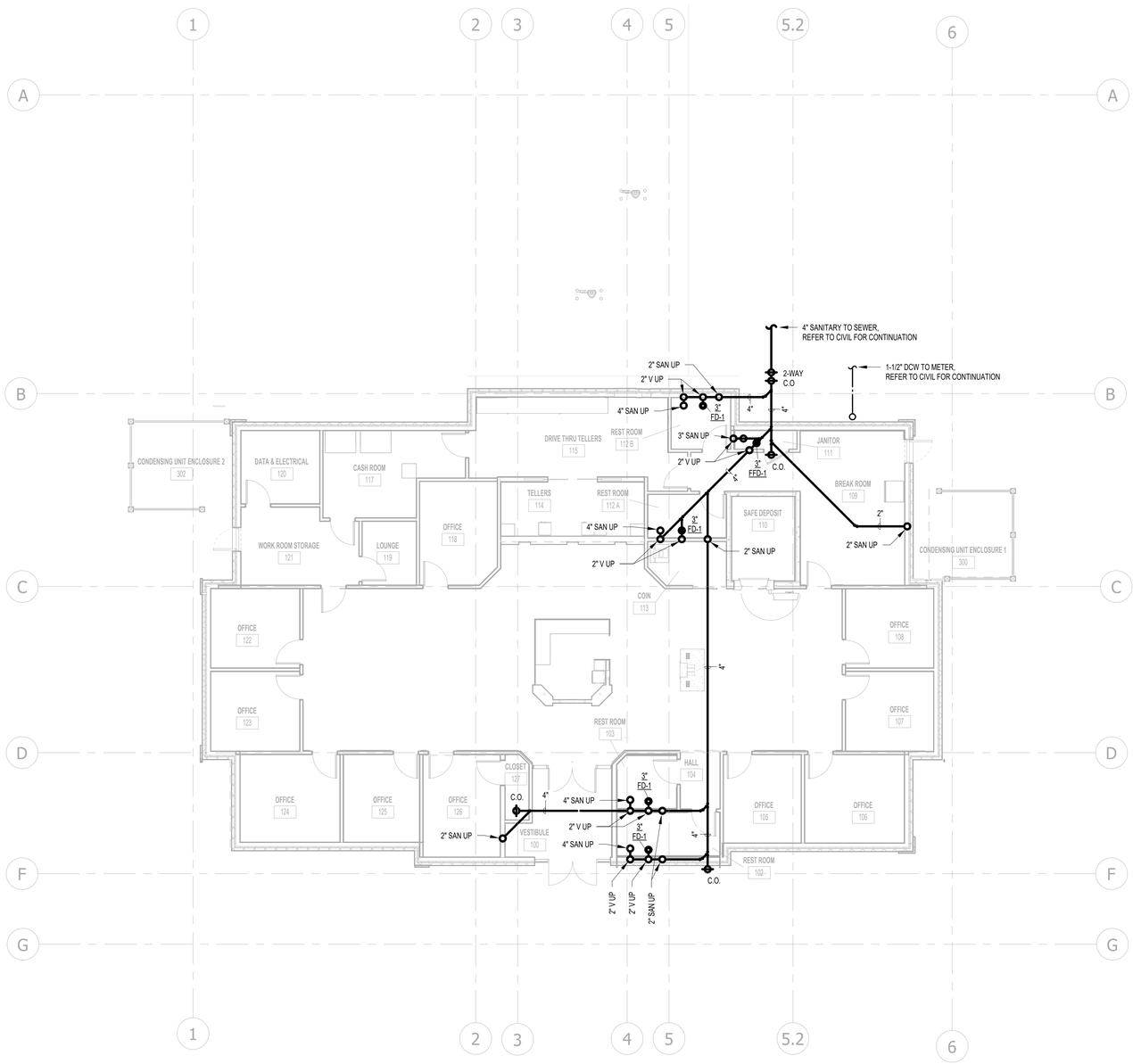

1 PLUMBING UNDERSLAB PLAN

1/8" = 1'-0"

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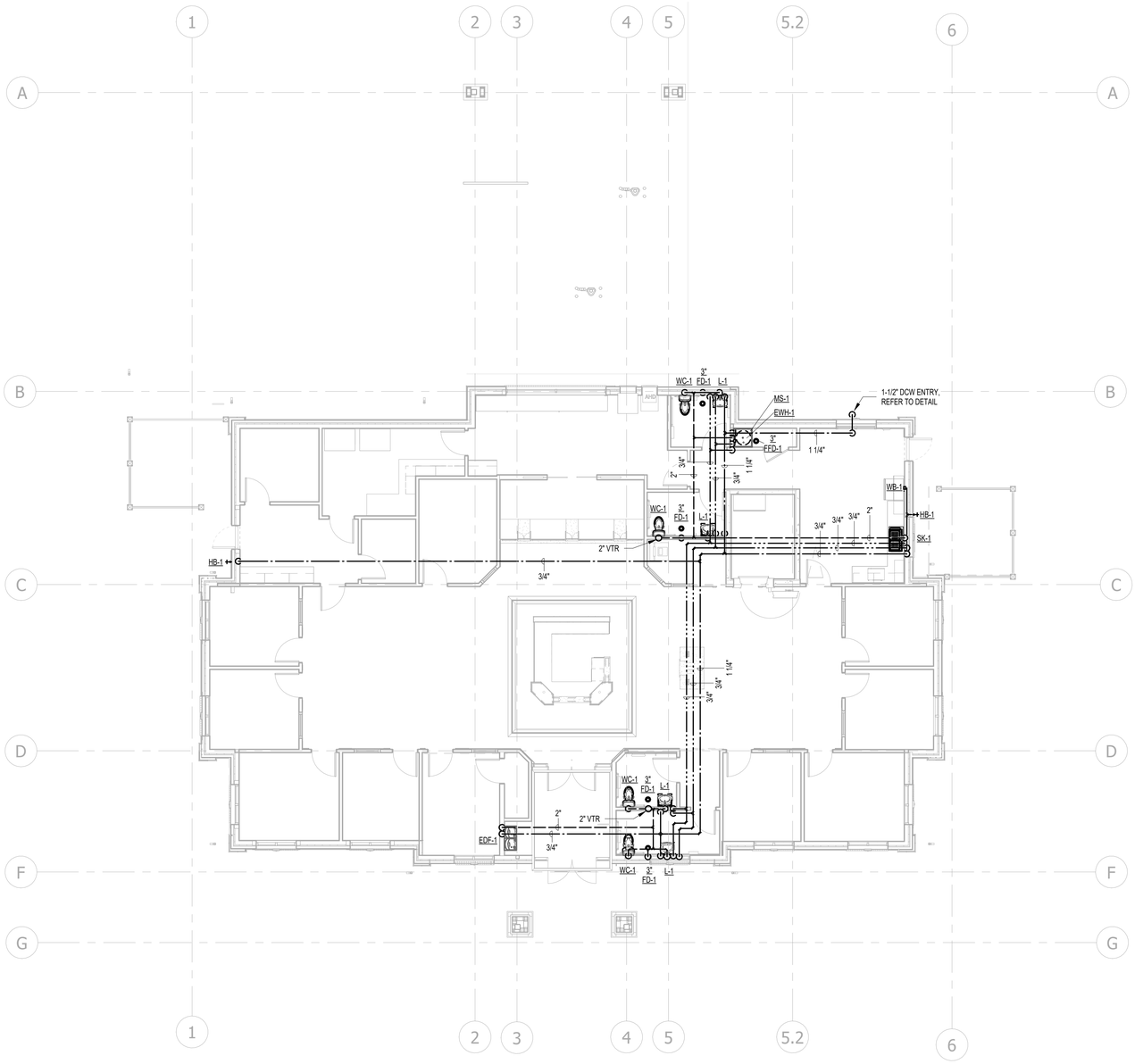

PLUMBING GENERAL NOTES:

1. PROVIDE HOT WATER RECIRCULATION PUMP. REFER TO SCHEDULE AND DETAIL ON P3.01. HOT WATER RECIRCULATION LINE TO BE BALANCED WITH THERMOSTATIC BALANCING VALVES IN ORDER TO RECEIVE ADEQUATE HOT WATER SUPPLY FOR FIXTURES REQUIRING HOT WATER.
2. LAVATORY FAUCET HOT WATER SUPPLY MUST BE WITHIN THE DISTANCE ALLOWED IN IECC, SECTION C404.5.1.

1 PLUMBING PLAN

1/8" = 1'-0"

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ABBREVIATIONS

A

A	AIR (COMPRESSED)
ABV	ABOVE
A|C	AIR CONDITIONING
AC	ALTERNATING CURRENT, AIR COMPRESSOR
ACI	AMERICAN CONCRETE INSTITUTE
AD	ACCESS DOOR, AREA DRAIN
ADJ	ADJUSTABLE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
AMB	AMBIENT
AP	ACCESS PANEL, ALARM PANEL
ARCH	ARCHITECT, ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
ATS	AUTOMATIC TRANSFER SWITCH
AV	ACID VENT, AIR VENT, AREA VALVE
AVG	AVERAGE
AW	ACID WASTE
AWS	AMERICAN WELDING SOCIETY
AUX	AUXILIARY

B

BC	BELOW COUNTER
B|C	BACK OF CURB
BFV	BUTTERFLY VALVE
BH	BOX HYDRANT
BLDG	BUILDING
BM	BENCHMARK
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STRUCTURE
BT	BATH TUB, BREAK TANK
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACK WATER VALVE

C

C	CELSIUS
CAB	CABINET
CB	CATCH BASIN
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CIRC	CIRCULATING
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMP	CORRIGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CPI	CAST IRON PIPE INSTITUTE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CO	CLEAN OUT
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESSOR
CON	CONVERTER
CONC	CONCRETE, CONCENTRIC
COND	CONDENSER, CONDENSATE
CONN	CONNECTION
CONT	CONTINUOUS, CONTINUATION
CONTR	CONTROLLER, CONTRACTOR
CRP	CORROSION RESISTANT PIPE
CRT	CATHODE RAY TUBE
CT	COOLING TOWER
CTR	CENTER
CU	COPPER
CW	COLD WATER
C_v	CAPACITY INDEX
CV	CHECK VALVE

D

D	DEPTH, DRAIN
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DE	DEIONIZED WATER SUPPLY
DEP	DEIONIZED WATER PUMP
DER	DEIONIZED WATER RETURN
DESIG	DESIGNATION
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DS	DOWNSPOUT, DOUBLE SUCTION
DW	DISHWASHER
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWP	DOMESTIC WATER PUMP

E

EA	EACH
EC	ELECTRICAL CONTRACTOR
ECC	ECCENTRIC
EDF	ELECTRIC DRINKING FOUNTAIN
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMERG	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
ES	END SUCTION, EMERGENCY SHOWER
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EVAP	EVAPORATOR
EWT	ENTERING WATER TEMPERATURE
EX	EXPLOSION-PROOF
EXT	EXTERNAL
EXTG	EXISTING

F

F	FARENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEAN OUT
FCS	FLOOR CONTROL STATION
FD	FLOOR DRAIN
FDS	FIRE DEPARTMENT SIAMESE
FDV	FIRE DEPARTMENT VALVE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FL	FLOW LINE
FLR	FLOOR
FOP	FUEL OIL PUMP
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FP	FIRE PUMP
FRZR	FREEZER
FS	FLOW SWITCH, FIRE SPRINKLER
FT	FOOT, FEET
FUT	FUTURE

G

G	GAS
GA	GAGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLV	GLOBE VALVE
GND	GROUND
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GV	GATE VALVE

H

H	HEIGHT
HB	HOSE BIBB
HD	HEAD, HUB DRAIN
HE	HEAT EXCHANGER
HORIZ	HORIZONTAL
HP	HORSEPOWER, HALON PANEL
HKP	HOUSEKEEPING PAD
HSC	HORIZONTAL SPLIT CASE
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HWC	HOT WATER CIRCULATOR
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INSUL	INSULATION
INT	INTERNAL, INTERIOR
IW	INDIRECT WASTE

J

JB	JUNCTION BOX
JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPMENT CONTRACTOR
KO	KNOCKOUT
KVA	KILOVOLT-AMPS
KW	KILOWATT

L

L	LENGTH, LAVATORY
LA	LABORATORY AIR
LAV	LAVATORY
LF	LINEAR FEET
LRA	LOCKED ROTOR AMPS
LV	LABORATORY VACUUM
LVL	LEVEL
LWCO	LOW WATER CUT OFF
LWT	LEAVING WATER TEMPERATURE

M

MA	MEDICAL AIR
M	METER
MAP	MASTER ALARM PANEL
MAX	MAXIMUM
MBH	THOUSAND OF BTU'S
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MG	MEDICAL GAS OUTLET
MH	MANHOLE
MI	MALLEABLE IRON
MIN	MINIMUM
MP	MEDICAL AIR PURIFIER
MS	MOP SINK
MTD	MOUNTED
MU	MAKE-UP
MV	MEDICAL VACUUM

N

N	NITROGEN
NO	NITROUS OXIDE
N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE

O

O	OXYGEN
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OE	ORAL EVACUATION
OPG	OPENING
OS&Y	OPEN STEM AND YOLK

P

P	PUMP, PLUMBING EQUIPMENT
PC	PLUMBING CONTRACTOR
PCR	PUMPED CONDENSATE RETURN
PD	PRESSURE DROP, PLANTER DRAIN
PH	PHASE
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PNEU	PNEUMATIC
PNL	PANEL
PNTH	PENTHOUSE
PP	POLYPROPYLENE
PPM	PARTS PER MILLION
PRI	PRIMARY
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT

P Cont)

PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	PLUMBING TRIM
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
PW	PROCESS WASTE

Q

QTY	QUANTITY

R

R	RISER
RAD	REFRIGERATED AIR DRYER
RCP	REFLECTED CEILING PLAN, REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RE:	REFERENCE, REFER
RECIRC	RECIRCULATE
RED	REDUCER
REFR	REFRIGERATOR
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION, REVISE
RH	RELATIVE HUMIDITY
RKVA	RUNNING KILOVOLT-AMPS
RKW	RUNNING KILOWATTS
RLA	RUNNING LOAD AMPS
RM	ROOM, REFRIGERATION MACHINE
RPM	REVOLUTIONS PER MINUTE
RV	RELIEF VALVE

S

SAN	SANITARY SEWER
SC	STEAM CONVERTER
SCHED	SCHEDULED
SCR	SILICON CONTROLLED RECTIFIER
SD	STORM DRAIN
SE	SEWAGE EJECTOR
SEC	SECONDARY
SECT	SECTION
SF	SQUARE FEET
SFCS	SPRINKLER FLOOR CONTROL STATION
SH	SHOWER
SHT	SHEET
SIM	SIMILAR
SK	SINK
SKVA	STARTING KILOVOLT-AMPS
SKW	STARTING KILOWATTS
SP	SUMP PUMP
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	SERVICE SINK
SSD	SUBSURFACE DRAIN
SSFU	SANITARY SEWER FIXTURE UNITS
STD	STANDARD
STL	STEEL
STR	STRAINER
SURF	SURFACE
SUSP	SUSPEND
SV	SANITARY VENT

T

TCC	TEMPERATURE CONTROL COMPRESSOR
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TH BLK	THRUST BLOCK
TOC	TOP OF CURB
TP	TRAP PRIMER
TSTAT	THERMOSTAT
TW	TEMPERED WATER
TYP	TYPICAL

U

U	URINAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES, INC.
UON	UNLESS OTHERWISE NOTED
U|F	UNDERFLOOR
U|S	UNDERSLAB

V

V	VOLT, VENT, VACUUM
VA	VOLT-AMPERE
VAC	VACUUM
VB	VALVE BOX
VCP	VITRIFIED CLAY PIPE
VEL	VELOCITY
VP	VACUUM PUMP
VERT	VERTICAL
VIB	VALVE IN BOX
VOV	VALVE ON VERTICAL
VTR	VENT THRU ROOF

W

W	WATT, WASTE, WIDTH
W|	WITH
W|O	WITHOUT
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WM	WATER METER
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WS	WATER SOFTENER
WT	WATERTIGHT, WEIGHT
WWF	WELDED WIRE FABRIC

Y

YH	YARD HYDRANT

Z

Z	ZONE
ZV	ZONE VALVE

MISCELLANEOUS

- FLOOR DRAIN
- FLOOR SINK
- ROOF DRAIN OR OVERFLOW DRAIN
- HOSE BIBB
- WALL HYDRANT
- PLUMBING FIXTURES
- POINT OF NEW CONNECTION TO EXISTING PIPING
- POINT OF DEMOLITION TO EXISTING PIPING
- 1 — DRAWING NOTE REFERENCE
- OWNER OR CONTRACTOR FURNISHED EQUIPMENT REFERENCE
- aaabb — PLUMBING EQUIPMENT REFERENCE. "aaa" DENOTES TYPE, "bb" DENOTES NUMBER.
- P / 1 — RISER DESIGNATION. "P" DENOTES WASTE|VENT OR WASTE|VENT|WATER, "W" DENOTES WATER, "DS" DENOTES DOWNSPOUT, "F" DENOTES FIRE.
- FIRE DEPARTMENT SIAMESE CONNECTION

PIPING TYPES

- SANITARY DRAIN BELOW FLOOR
- SANITARY DRAIN ABOVE FLOOR (NOTED)
- SANITARY VENT
- SD — STORM DRAIN
- OD — OVERFLOW DRAIN
- COLD WATER
- HOT WATER
- HOT WATER RECIRCULATION
- G — NATURAL GAS
- F — FIRE STANDPIPE, FIRE LINE
- FS — FIRE SPRINKLER
- TP — TRAP PRIMER
- D — DRAIN LINE
- GW — GREASE WASTE
- DCWF — FILTERED DOMESTIC COLD WATER
- AIR — COMPRESSED AIR
- S/O — SAND/OIL SEPARATOR WASTE

(ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

PIPING SYMBOLS

- ELBOW UP
- ELBOW DOWN
- VALVE IN DROP
- VALVE IN RISE
- DIRECTION OF FLOW
- DIRECTION OF SLOPE DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- TEE OUTLET UP
- TEE OUTLET DOWN
- UNION
- PIPE ANCHOR
- EXPANSION JOINT
- STRAINER WITH BLOWDOWN VALVE
- GATE VALVE
- GLOBE VALVE
- BALL VALVE
- THERMOSTATIC BALANCING VALVE
- HOT WATER RECIRCULATION PUMP
- CHECK VALVE
- PRESSURE REDUCING VALVE
- FCS — SPRINKLER FLOOR CONTROL STATION
- F — GAS VALVE
- MANUAL AIR VENT
- AUTOMATIC AIR VENT
- T&P RELIEF VALVE
- VACUUM BREAKER
- LINE CLEANOUT
- FLOOR CLEANOUT
- PRESSURE GAUGE WITH GAUGE COCK
- THERMOMETER
- FLEXIBLE CONNECTION
- DOUBLE CHECK REDUCED PRESSURE BACKFLOW PREVENTER

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N. CURTIS JONES, JR. 58428 REGISTERED PROFESSIONAL ENGINEER

JE#5126
04/07/2026

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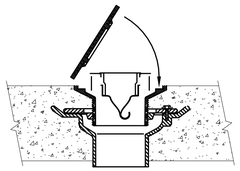
PLUMBING FIXTURE AND CONNECTION SCHEDULE

MARK	FIXTURE	ROUGH-IN CONNECTION SIZE C.W.	H.W.	VENT	WASTE	MANUFACTURER	MODEL	DESCRIPTION AND NOTES
3" FD-1	FLOOR DRAIN					ZURN	Z415	FLOOR DRAIN W/ TYPE 'B' STRAINER.
3" FFD-1	FUNNEL FLOOR DRAIN					ZURN	Z415	FLOOR DRAIN W/ TYPE 'E' STRAINER.
EDF-1	ELECTRIC DRINKING FOUNTAIN	1/2"	-	1-1/2"	2"	ELKAY	LZSTL8WS	ELECTRIC REFRIGERATED, BI-LEVEL, WALL-MOUNTED WATER COOLER WITH BOTTLE FILLER DELIVERING 8GPH OF 50° F FILTERED DRINKING WATER BASED ON 80° F INLET WATER AND 90° F AMBIENT. 115V/60Hz. MOUNT AT ADA HEIGHT, RE: ARCHITECTURE.
EWH-1	ELECTRIC WATER HEATER					A.O. SMITH	DEL-10	10 GALLON, 2.5 KW, 208 V, STORAGE TYPE ELECTRIC WATER HEATER, WITH ARMSTRONG COMPASS H CIRCULATING PUMP, 2.0 GPM, 5 FT. HEAD.
HB-1	HOSE BIBB					WOODFORD	24P	BRASS BODY WITH INTERNAL VACUUM BREAKER AND CAST OR STEEL WHEEL HANDLE.
L-1	LAVATORY (WALL HUNG)	1/2"	1/2"	1-1/2"	2"	KOHLER	PINOIR K-2035-8	VITREOUS CHINA, WALL-MOUNTED LAVATORY WITH 8" WIDESPREAD FAUCET HOLES, WHITE. FAUCET - KOHLER KELSTON K-13491-4, 8" WIDESPREAD, POLISHED CHROME. APPURTENANCES - ZURN Z8996-1-PC CHROME-PLATED P-TRAP WITH CLEANOUT WITH ADA TRAP PROTECTOR AND SUPPLY STOP PROTECTORS. ZURN Z8737 FLAT GRID SINK STRAINER AND ZURN HEAVY DUTY STOPS WITH FLEXIBLE LAVATORY SUPPLY. WATTS #LFMMV, ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE. PINOIR BATHROOM SINK SHROUD K-2057.
MS-1	MOP SINK	3/4"	3/4"	2"	3"	FIAT	MSB2424	FLOOR MOUNTED SINK, 24X24" MOP SINK WITH CHICAGO FAUCET 897CP FAUCET WITH VACUUM BREAKER.
SK-1	SINK (DOUBLE COMPARTMENT)					ELKAY	CELEBRITY GECR3321	DOUBLE COMPARTMENT COUNTERTOP, STAINLESS STEEL SINK, ONE HOLE, WITH AMERICAN STANDARD 'COLONY PRO' #7074.100 PULL DOWN KITCHEN FAUCET. PROVIDE WITH TRU-BRO TRAP AND STOP PROTECTORS OR HANDI BASIN GUARD UNDERSINK ENCLOSURE AS REQUIRED. COORDINATE WITH ARCHITECT. PROVIDE WITH INSINKERATOR BADGER 1 GARBAGE DISPOSAL, MAX DEPTH 11-3/8"
WB-1	WALL BOX	1/2"	1/2"	-	-	GUY GRAY	MDWB1AB	WALL BOX FOR ICEMAKER. WALL BOX TO INCLUDE 1/2" INLET, 3/8" OUTLET QUARTER TURN VALVE WITH ARRESTER. PROVIDE 1/2" WATTS SERIES 7 DUAL CHECK VALVE.
WC-1	WATER CLOSET (ADA)					AMERICAN STANDARD	CADET PRO 215AA.104	FLOOR MOUNTED, VITREOUS CHINA, TANK TOILET WITH ELONGATED BOWL W/ CHURCH #9500 OPEN FRONT SEAT. ADA HEIGHT.

PLUMBING PIPE MATERIALS

SYSTEM:	MATERIAL:
WATER PIPE, ABOVE GRADE	TYPE 'L' COPPER
WATER PIPE, BELOW GRADE	TYPE 'K' COPPER
SANITARY SEWER & VENT, ABOVE GRADE	SCHEDULE 40 PVC
SANITARY SEWER & VENT, BELOW GRADE	SCHEDULE 40 PVC
STORM, ABOVE GRADE	SCHEDULE 40 PVC
STORM, BELOW GRADE	SCHEDULE 40 PVC
NATURAL GAS	SCHEDULE 40 BLACK STEEL



PART NO. TG33-ZURN 3" INSERT FITS INSIDE Z-415 DRAINS

IMPORTANT NOTES :

1. THIS TRAP GUARD INSERT CAN BE INSTALLED INTO ANY ZURN # 415 DRAIN TOPS TO PREVENT SEWER GAS EMISSION.
2. THE EXTRA WIDE FLANGE NEEDS TO HAVE AN ADHESIVE TYPE CAULK INSTALLED AROUND THE BOTTOM EDGE.
3. MOST Z415 TAILPIECES HAVE 4 PROTRUSIONS INSIDE THE 3-1/2" OPENING SO THE SEAL MUST BE MADE AROUND THE EDGE OF THE TG FLANGE. MAKE SURE INSIDE OF TAILPIECE IS CLEAN.

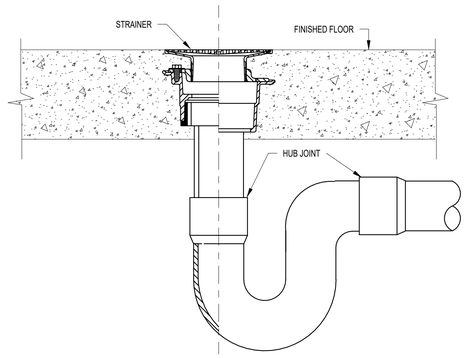
IF THE TRAP GUARD DEVICE SHOULD GET DAMAGED OR IMPAIRED IN ANY WAY, THE DEVICE CAN BE EASILY REMOVED BY USING A SHARP SCREW DRIVER UNDER THE FLANGE.

NOTE: CARE SHOULD BE TAKEN NOT TO TOUCH THE ELASTOMERIC FLEXIBLE MATERIAL WITH THE PRIMER.

NO FIRE RATINGS ARE
REQUIRED FOR UNDERGROUND
PIPING OR OPENINGS

6 TRAP GUARD INSERT DETAIL

NOT TO SCALE



5 TYPICAL FLOOR DRAIN DETAIL

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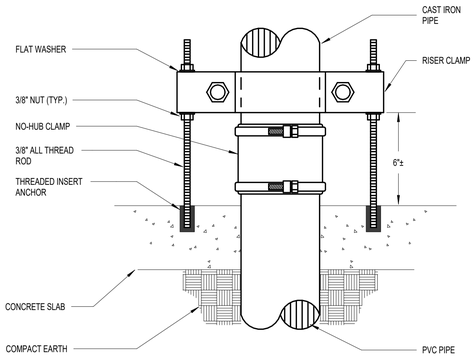
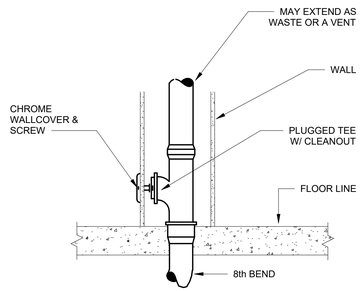


4 CAST IRON TO PVC TRANSITION DETAIL

NOT TO SCALE



3 WALL CLEANOUT

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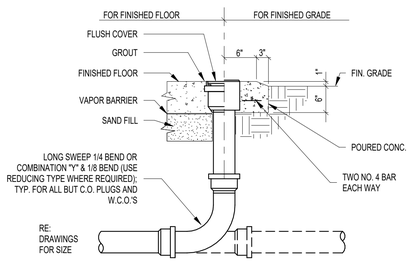
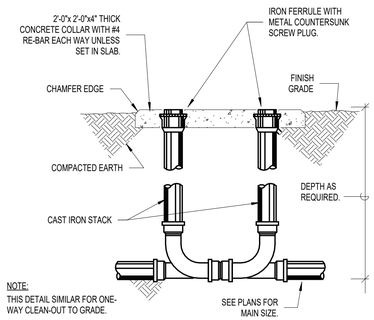


2 TYPICAL CLEANOUT DETAIL

NOT TO SCALE



NOTE:
THIS DETAIL SIMILAR FOR ONE-WAY CLEAN-OUT TO GRADE.

1 2-WAY CLEANOUT DETAIL

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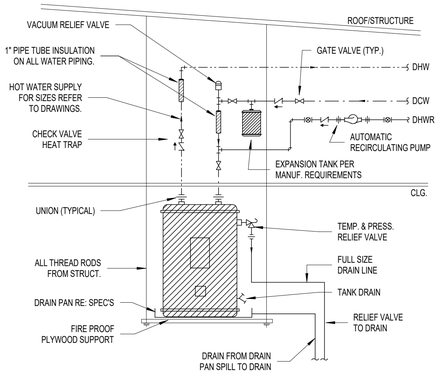

7 WATER HEATER DETAIL
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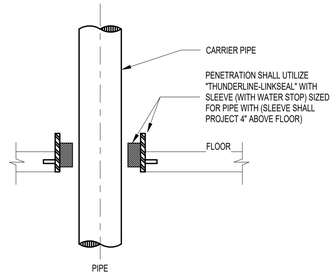

6 PIPE PENETRATION THRU FLOOR DETAIL
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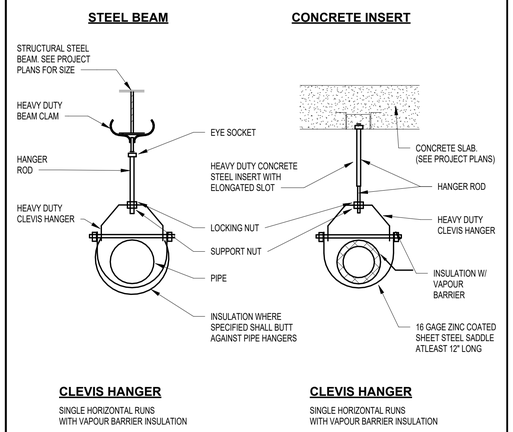

5 TYPICAL HANGER DETAIL
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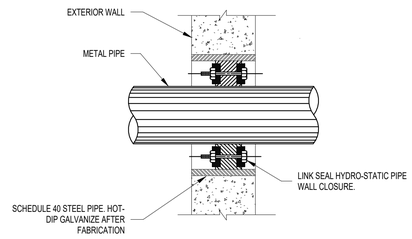

4 EXTERIOR WALL SLEEVE DETAIL
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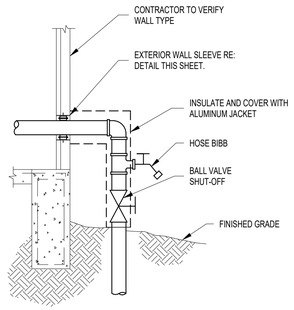

3 WATER ENTRY DETAIL
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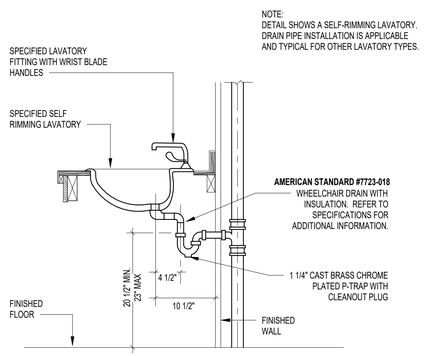

2 TYPICAL HANDICAPPED LAVATORY DETAIL
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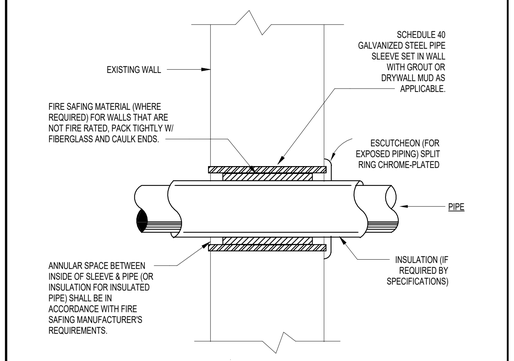

NOTE:
PROVIDE AND INSTALL A UL APPROVED FIRE SAFING ASSEMBLY IN ACCORDANCE W/ FIRE SAFING MANUFACTURER'S REQUIREMENTS FOR TYPE OF WALL, HOUR RATING OF WALL AND MATERIAL OF PIPING PASSING THRU WALL SLEEVE. FIRE SAFING ASSEMBLY TO BE "3M" OR APPROVED EQUAL.

1 INTERIOR WALL SLEEVE
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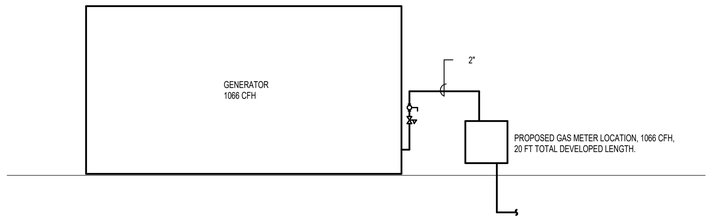

3 GAS RISER DIAGRAM

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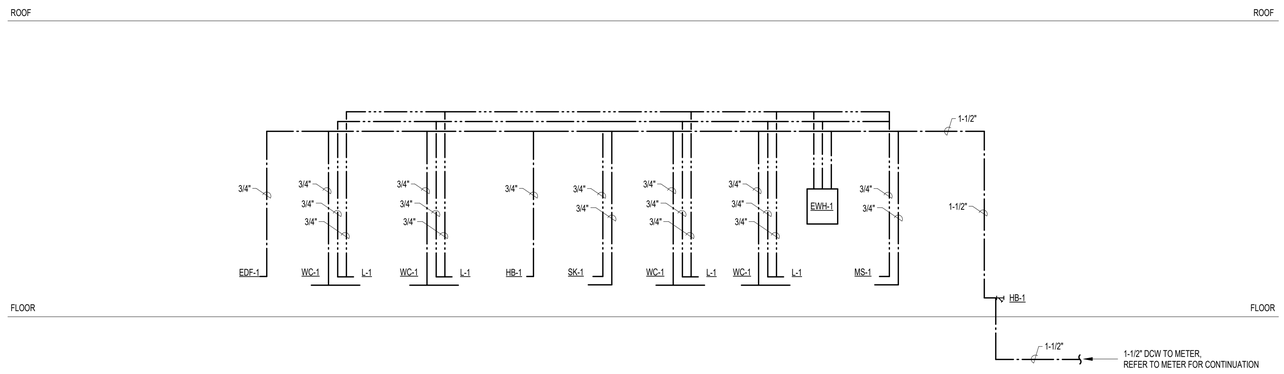

2 DOMESTIC WATER RISER DIAGRAM

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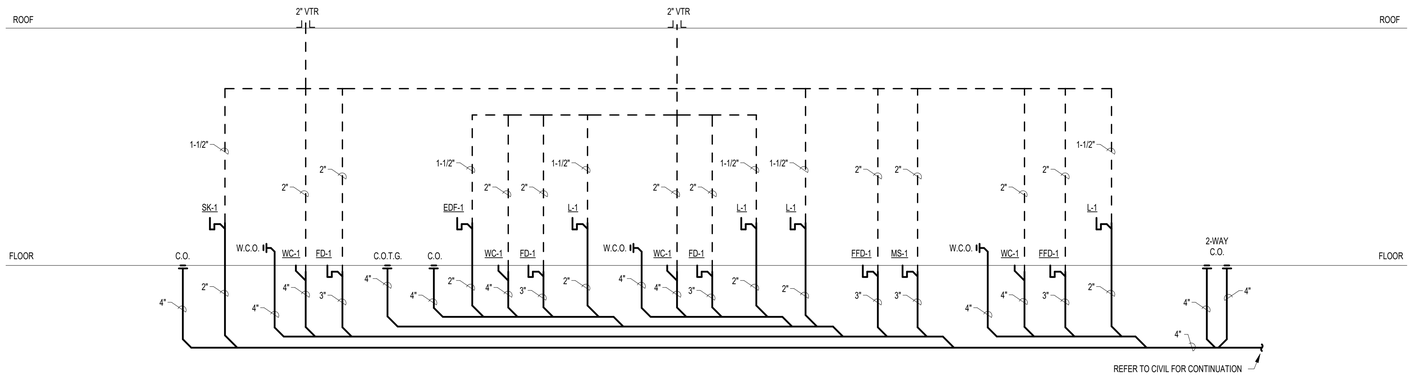

1 SAN WASTE & VENT RISER DIAGRAM

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