

GENERAL NOTES

- 1. THESE PLANS ARE SOLELY BASED ON INFORMATION THE OWNER AND OTHERS PROVIDED TO BOHLER ENGINEERING...
2. THE CONTRACTOR MUST STRICTLY COMPLY WITH THESE NOTES AND ALL SPECIFICATIONS/REPORTS CONTAINED HEREIN...
3. THE LATEST EDITION OF THE DOCUMENTS AND/OR REPORTS REFERENCED WITHIN THE PLAN REFERENCES ARE BEING USED FOR CONSTRUCTION...
4. THIS IS THE CONTRACTOR'S SOLE AND COMPLETE RESPONSIBILITY...
5. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR MUST ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED...
6. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR MUST COORDINATE THE BUILDING LAYOUT...
7. THE CONTRACTOR MUST REFER TO AND ENSURE COMPLIANCE WITH THE APPROVED ARCHITECTURAL/BUILDING PLANS...
8. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND LOCATIONS...
9. THE CONTRACTOR MUST VERIFY ALL DIMENSIONS AND MEASUREMENTS INCLUDED ON DESIGN DOCUMENTS...
10. THE CONTRACTOR MUST MAINTAIN RECORDS FOR THE ENTIRE DURATION OF THE PROJECT...
11. WHEN INCLUDED ONE OF THE REFERENCED DOCUMENTS, THE GEOTECHNICAL REPORT, SPECIFICATIONS AND RECOMMENDATIONS SET FORTH...
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SUBSURFACE CONDITIONS AND FURTHER, HAS NO LIABILITY FOR ANY HAZARDOUS MATERIALS...
13. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING WHICH AND WHERE SHORINGS IS REQUIRED AND FOR INSTALLING ALL SHORING...
14. THE CONTRACTOR MUST EXERCISE EXTREME CAUTION WHEN PERFORMING ANY WORK ACTIVITIES ADJACENT TO PAVEMENT, STRUCTURES, ETC...
15. DEBRIS MUST NOT BE BURIED ON THE SUBJECT SITE...
16. THE CONTRACTOR MUST REPAIR ALL DAMAGE DONE TO ANY NEW OR EXISTING CONSTRUCTION OR PROPERTY...
17. THE CONTRACTOR MUST REPAIR ALL DAMAGE DONE TO ANY NEW OR EXISTING CONSTRUCTION OR PROPERTY...
18. THE PROFESSIONAL OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR AND HAVE NO CONTRACTUAL, LEGAL OR OTHER RESPONSIBILITIES FOR JOB SITE SAFETY...
19. THE CONTRACTOR MUST IMMEDIATELY NOTIFY IN WRITING TO THE PROFESSIONAL OF RECORD AND BOHLER...
20. THE CONTRACTOR MUST IMMEDIATELY NOTIFY IN WRITING TO THE PROFESSIONAL OF RECORD AND BOHLER...
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DEMOLITION NOTES

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GRADING NOTES

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STANDARD ABBREVIATIONS

Table with 2 columns: Abbreviation and Description. Includes entries like AASHTO, AC, ADA, AG, APPROX, ARCH, ASPH, ASSF, ASSOC, BC, BF, BIO, BIT, BK, BL, BLDG, BM, BRL, BVW, CB, CF, CI, CJT, CL, CML, CO, CONC, CONN, COORD, CPP, CY, DEC, DEP, DET, DIA, DMH, DOM, DR, DP, DWL, DYL, EG, ELEC, ELEV, EOP, EP/EOP, EW, EX, FEMA, FES, FF, FFE, FG, FH, FM, FO, GE, GEO, GF/GFE, GFA, GH, GL, GR, GRT, GT, HDPE, HOR, HP, HW, ICS, INF, INT, INV, LF, LOC, LOD, LOS, LOW, LP.

STANDARD DRAWING LEGEND

Table with 2 columns: Symbol and Description. Includes entries like LIMIT OF WORK, LIMIT OF DISTURBANCE, SAWCUT LINE, TYPICAL NOTE TEXT, PROPOSED NOTE, ONSITE PROPERTY LINE, NEIGHBORING PROPERTY LINE, EASEMENT LINE, SETBACK LINE, CURB AND GUTTER, SPILL TRANSITION, DEPRESSED CURB AND GUTTER, UTILITY POLE WITH LIGHT, POLE LIGHT, TRAFFIC LIGHT, POLYPROPYLENE PIPE, PROPOSED, UTILITY POLE, CHANGE IN TYPE, POINT OF TANGENCY, CURB RETURN, POINT OF VERTICAL INTERSECTION, ACORN LIGHT, TYPICAL SIGN, PARKING COUNTS, RADIUS/RADI, REINFORCED CONCRETE PIPE, ROOF DRAIN, REGULATIONS, TO BE RELOCATED, REQUIRED, RETENTION, RETAINING WALL, TRANSPORTATION, TO BE RETURNED TO OWNER, RAIN GARDEN, SLOPE, SANITARY SEWER LATERAL, UNDERGROUND WATER LINE, UNDERGROUND ELECTRICAL LINE, UNDERGROUND GAS LINE, OVERHEAD WIRE, UNDERGROUND TELEPHONE LINE, UNDERGROUND CABLE LINE, STORM SEWER, TO BE REMOVED AND REPLACED IN KIND, TO BE SALVAGED, HYDRANT, SANITARY MANHOLE, STORM MANHOLE, WATER METER, TYPICAL END SECTION, HEADWALL OR ENDWALL, GRATE INLET, CURB INLET, WATER METER, WATER QUALITY UNIT, YARD DRAIN, # NUMBER, SLOPE EXPRESSED IN HORIZONTAL/VERTICAL FEET, # FEET OR MINUS, # DEGREE, # DIAMETER, MONITORING WELL, TEST PIT, BORING.

REVISIONS

Table with 4 columns: REV, DATE, COMMENT, DRAWN BY. Includes entries for revisions to the drawing.

Bohler Engineering logo and contact information. Includes address: 2600 NETWORK BOULEVARD, SUITE 310, FRISCO, TX 75034. Phone: (469) 458-7300. Website: TX@Bohler.com. Also includes 'NOT APPROVED FOR CONSTRUCTION' stamp and 'CONSTRUCTION DOCUMENTS' stamp.



DEMOLITION PLAN NOTES:

- SEE SHEET C-102 FOR GENERAL NOTES, STANDARD ABBREVIATIONS, AND STANDARD DRAWING LEGEND.
- TOTAL LIMITS OF DISTURBANCE IS 1.053 AC.
- CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, (29 U.S.C. 651 ET SEQ.), AS AMENDED AND ANY MODIFICATIONS, AMENDMENTS OR REVISIONS TO SAME.
- BOHLER ENGINEERING TX, LLC HAS NO CONTRACTUAL, LEGAL, OR OTHER RESPONSIBILITY FOR JOB SITE SAFETY OR JOB SITE SUPERVISION, OR ANYTHING RELATED TO SAME.
- THE DEMOLITION PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION ONLY. REGARDING ITEMS TO BE DEMOLISHED AND/OR REMOVED, THE CONTRACTOR MUST ALSO REVIEW THE OTHER SITE PLAN DRAWINGS AND INCLUDE IN DEMOLITION ACTIVITIES ALL INCIDENTAL WORK NECESSARY FOR THE CONSTRUCTION OF THE NEW SITE IMPROVEMENTS.
- CONTRACTOR MUST RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS OR SPECIFICATIONS, CONCERNS REGARDING THE APPLICABLE SAFETY STANDARDS, OR THE SAFETY OF THE CONTRACTOR OR THIRD PARTIES IN PERFORMING THE WORK ON THIS PROJECT, WITH BOHLER ENGINEERING, IN WRITING, AND RESPONDED TO BY BOHLER, IN WRITING, PRIOR TO THE INITIATION OF ANY SITE ACTIVITY AND ANY DEMOLITION ACTIVITY. ALL DEMOLITION ACTIVITIES MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, RULES, REQUIREMENTS, STATUTES, ORDINANCES AND CODES.
- PRIOR TO STARTING ANY DEMOLITION, CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND MAINTAINING THE SAME ON SITE FOR REVIEW BY THE ENGINEER OF RECORD AND OTHER PUBLIC AGENCIES HAVING JURISDICTION THROUGHOUT THE DURATION OF THE PROJECT, SITE WORK AND DEMOLITION WORK.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES AS INDICATED ON THE PLAN IS APPROXIMATE. CONTRACTOR TO FIELD LOCATE ALL UNDERGROUND EXISTING UTILITIES LOCATED IN THE AREA OF WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CALL TEXAS811 PRIOR TO CONSTRUCTION FOR ASSISTANCE IN LOCATING EXISTING UNDERGROUND UTILITIES. SUBSURFACE FEATURES ARE SHOWN IN AN APPROXIMATE LOCATION. CONTRACTOR IS RESPONSIBLE FOR SUBSURFACE UTILITY EXPLORATION TO DETERMINE UNDERGROUND UTILITY LOCATIONS AND DEPTH. UNDERGROUND UTILITY LOCATIONS SHOWN ARE TO STANDARD OF ACCURACY BASED ON UTILITY MARKOUT METHOD NOTED IN THE REFERENCED SURVEY. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ANY CROSSING/CONFLICT PRIOR TO STARTING CONSTRUCTION OF RELATED ADJACENT INFRASTRUCTURE AND NOTIFYING THE ENGINEER OF RECORD IN WRITING OF ANY CONFLICTS.
- CONTRACTOR TO COORDINATE ALL UTILITY REMOVAL, RELOCATION, & ABANDONMENT WITH THE APPROPRIATE UTILITY SERVICE PROVIDER. CONTRACTOR SHALL COORDINATE WITH UTILITY PROVIDER PRIOR TO DISRUPTING SERVICE. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL UTILITY SERVICES TO ADJACENT PROPERTIES DURING ALL PHASES OF CONSTRUCTION.
- CONTRACTOR TO REMOVE ANY UTILITY SERVICES NO LONGER UTILIZED WITHIN THE PROJECT PARCEL AND REMOVE BACK TO THE MAIN SERVICE LINE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL STANDARDS AND REGULATIONS.
- ALL SIDEWALKS AND CURB AND GUTTER SECTIONS SHALL BE REMOVED BY SAWCUTTING THE NEAREST CONTROL JOINT AWAY FROM THE LOCATION DESIGNATED FOR REMOVAL ON THE PLANS. EXISTING PAVEMENT SHALL BE SAWCUT IN ALL LOCATIONS WHERE ABUTTING NEW PAVEMENT OR CONCRETE. CONTRACTOR SHALL SAWCUT PAVEMENT NOT EXPLICITLY SHOWN IN THIS PLAN TO ENSURE COMPLIANCE WITH PROPOSED GRADES IF EXISTING CONCRETE IS PRESENT AND MODIFICATION IS NECESSARY.
- EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED OR RELOCATED AS NECESSARY. ALL COSTS SHALL BE INCLUDED IN BASE BID. CONTRACTOR IS RESPONSIBLE FOR DAMAGES TO EXISTING INFRASTRUCTURE AND SHALL REPLACE AND/OR REPAIR IN-KIND.
- CONTRACTOR TO ESTABLISH NEW BENCHMARKS IF EXISTING BENCHMARK WILL BE DISTURBED OR REMOVED.
- CONTRACTOR TO REMOVE EXISTING TREES OR PLANTS AS SHOWN ON THE TREE DISPOSITION PLAN WITHIN THE LIMITS OF DISTURBANCE. CONTRACTOR TO OBTAIN APPROVAL FROM THE OWNER AND ENGINEER OF RECORD PRIOR TO REMOVING EXISTING TREES NOT SHOWN ON THE TREE DISPOSITION PLAN.
- THIS PLAN WAS PREPARED WITH THE ALTANSPS LAND TITLE SURVEY PREPARED BY BOHLER ENGINEERING, DATED 08/15/2024.

DEMOLITION ABBREVIATIONS

ABBREVIATION	DESCRIPTION
(TBA)	TO BE ABANDONED
(TBR)	TO BE REMOVED
(TBV)	TO BE VACATED
(RELO)	TO BE RELOCATED

PROJECT BENCHMARKS

BM #1
X-CUT SET AT THE SOUTHEAST CORNER OF A CURB INLET ON THE EAST SIDE OF S. 31ST STREET (ALSO KNOWN AS F.M. 1741), LOCATED APPROXIMATELY 28 FEET NORTHWEST OF A SIGN "OUTLET" AND APPROXIMATELY 37 FEET SOUTHWEST OF A TREE.
ELEVATION = 614.37 FEET

BM #2 (NOT SHOWN)
X-CUT SET AT THE SOUTHEAST CORNER OF A CURB INLET ON THE EAST SIDE OF S. 31ST STREET (ALSO KNOWN AS F.M. 1741), LOCATED APPROXIMATELY 28 FEET NORTHWEST OF A POWER POLE AND 201 FEET SOUTHWEST OF ANOTHER POWER POLE.
ELEVATION = 618.41 FEET



THIS PLAN TO BE UTILIZED FOR DEMOLITION PURPOSES ONLY

BOHLER
SITE CIVIL AND CONSULTING ENGINEERING
PROGRAM MANAGEMENT
LANDSCAPE ARCHITECTURE
SUSTAINABLE DESIGN
PERMITTING SERVICES
TRANSPORTATION SERVICES

REVISIONS

REV	DATE	COMMENT	DRAWN BY	CHECKED BY

811
Know what's below.
Call before you dig.
ALWAYS CALL 811
It's fast. It's free. It's the law.

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PROJECT No.: TXA240084.00
DRAWN BY: PJC
CHECKED BY: MJH
DATE: 11/13/2024
CAD LD.: P-CIVL-EXDM

CONSTRUCTION DOCUMENTS

FOR

BRAKES PLUS

PROPOSED DEVELOPMENT
4103 S. 31ST ST.
TEMPLE, TX 75071
BELL COUNTY

BOHLER
2600 NETWORK BOULEVARD, SUITE 310
FRISCO, TX 75034
Phone: (469) 458-7300
TX@BohlerEng.com
TBPE No. 18065 | TBPLS No. 10194413

PLANS PREPARED BY
BOHLER
FOR REVIEW PURPOSES ONLY
MATTHIAS HALBERT
LICENSE NUMBER: 13836

SHEET TITLE:
EXISTING CONDITIONS/ DEMOLITION PLAN

SHEET NUMBER:
C-201

Nov 13, 2024
 H:\2024\TXA240084\00\CADD\DRAWINGS\PLAN SET\CIVIL SITE PLANS\IP-CIVL-EXDM\TXA240084.00.dwg - LAYOUT: C-201 EXDM

Nov 13, 2024
 H:\2024\TX240084\00\CADD\DRAWINGS\PLAN SET\PLAN SET\SITE PLANS\PLAN SET\SITE PLANS\PLAN SET\LAYOUT\C-301 SITE PLAN

SITE PLAN NOTES:

- SEE SHEET C-102 FOR GENERAL NOTES, STANDARD ABBREVIATIONS, AND STANDARD DRAWING LEGEND.
- ALL CURB RADII ARE 3' UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS ARE SHOWN AT FACE OF CURB, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, TRASH ENCLOSURES, SLOPE PAVING, SIDEWALKS, EXIT PORCHES, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS. ARCHITECTURAL, STRUCTURAL, MECHANICAL/ELECTRICAL/PLUMBING, LANDSCAPE AND LIGHTING PLANS ARE TO BE PROVIDED BY OTHERS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, (UNLESS OTHERWISE NOTED ON PLANS) INCLUDING BUT NOT LIMITED TO, UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND PROJECT SITE WORK SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
- THIS PLAN WAS PREPARED WITH SITE BOUNDARY, TOPOGRAPHY, UTILITY, AND ROAD INFORMATION TAKEN FROM A SURVEY PREPARED BY A LAND SURVEYOR. SEE SHEET C-101 FOR SURVEY REFERENCE.
- THIS PLAN WAS PREPARED WITH A GEOTECHNICAL ANALYSIS PREPARED BY A GEOTECHNICAL ENGINEER. SEE SHEET C-101 FOR GEOTECHNICAL REFERENCE.
- THE PROPERTY AREA IS LOCATED WITHIN AN AREA OF MINIMAL FLOOD HAZARD (ZONE X) BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD MAP, NUMBER 48027C0295E, DATED 09/28/2008.
- PROPOSED FIRE LANES SHALL BE CONSTRUCTED TO LOCAL, STATE, AND IFC REQUIREMENTS.
- PROPOSED SIGNAGE SHOWN IS FOR REPRESENTATIONAL PURPOSES ONLY AND SHALL BE PERMITTED SEPARATELY.
- CORNERS SHOULD BE STAKED PRIOR TO POURING SLAB DUE TO PROXIMITY TO BUILDING SETBACK LINE.

SITE DATA

LEGAL	
LOT 1, BLOCK 1	
ZONING	
ZONING DISTRICT	GR - GENERAL RETAIL
CURRENT USE	UNDEVELOPED
PROPOSED USE	MINOR AUTO SERVICE
BUILDING / LOT COVERAGE	
NUMBER OF BUILDINGS	1
BUILDING AREA	±4,874 SF
BUILDING HEIGHT	MAX: 40' PROVIDED: 38.5'
LOT AREA	1,053 AC
LOT COVERAGE	10.83%
IMPERVIOUS AREA	0.535 AC
PERVIOUS AREA	0.518 AC
PARKING	
REQUIRED	38 TOTAL SPACES
PROPOSED NON-ADA COMPLIANT PARKING SPACES	28 SPACES
PROPOSED ADA-COMPLIANT PARKING SPACES	2 SPACES
SERVICE BAYS	8 SPACES
TOTAL PROPOSED PARKING	38 TOTAL SPACES
SETBACKS	
FRONT SETBACK	15'
REAR SETBACK	NONE
SIDE SETBACK	10'

BOHLER
 SITE CIVIL AND CONSULTING ENGINEERING
 PROGRAM MANAGEMENT
 LANDSCAPE ARCHITECTURE
 SUSTAINABLE DESIGN
 PERMITTING SERVICES
 TRANSPORTATION SERVICES

REVISIONS

REV	DATE	COMMENT	DRAWN BY	CHECKED BY

HATCH LEGEND
 REFER TO SHEET C-901 FOR PAVEMENT SECTION DETAILS.

	PAVEMENT & ADA STRIPING		PROPOSED DUMPSTER PAD CONCRETE PAVEMENT
	PROPOSED CONCRETE SIDEWALK		PROPOSED STANDARD DUTY CONCRETE PAVEMENT
	PROP BUILDING (SEE ARCH DRAWINGS)		

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 DRAWN BY: PJC
 CHECKED BY: MJH
 DATE: 11/13/2024
 CAD ID: P-CIVL-SITE

CONSTRUCTION DOCUMENTS

FOR
BRAKES PLUS

PROPOSED DEVELOPMENT
 4103 S. 31ST ST.
 TEMPLE, TX 75071
 BELL COUNTY

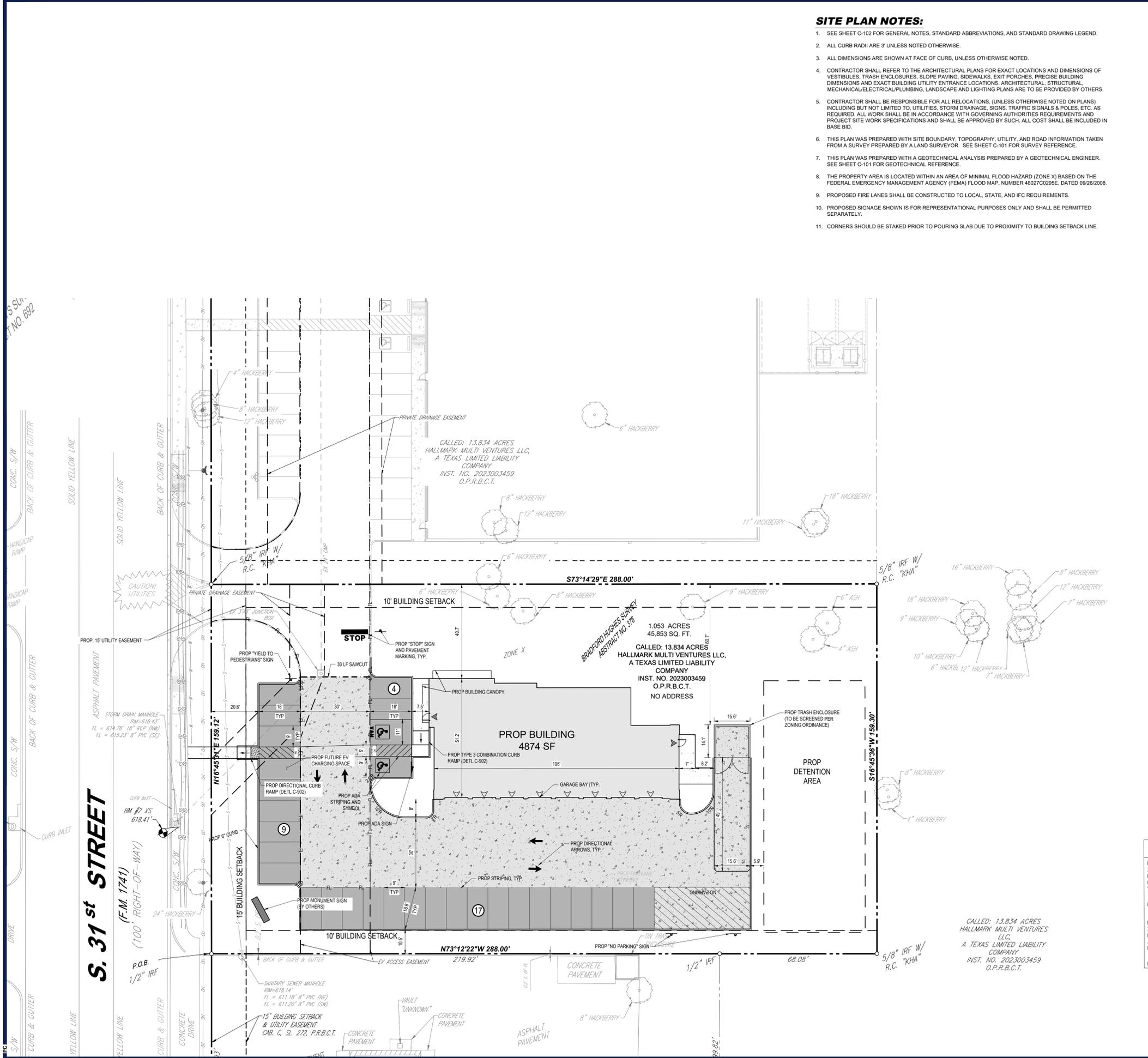
BOHLER

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 Phone: (469) 458-7300
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 TBPE No. 18065 | TBPLS No. 10194413

PLANS PREPARED BY
BOHLER
 FOR REVIEW PURPOSES ONLY
 MATTHIAS HALBERT
 LICENSE NUMBER: 13836

SITE PLAN

SHEET NUMBER:
C-301



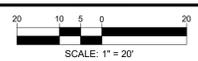
PROJECT BENCHMARKS

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 ELEVATION = 614.37 FEET

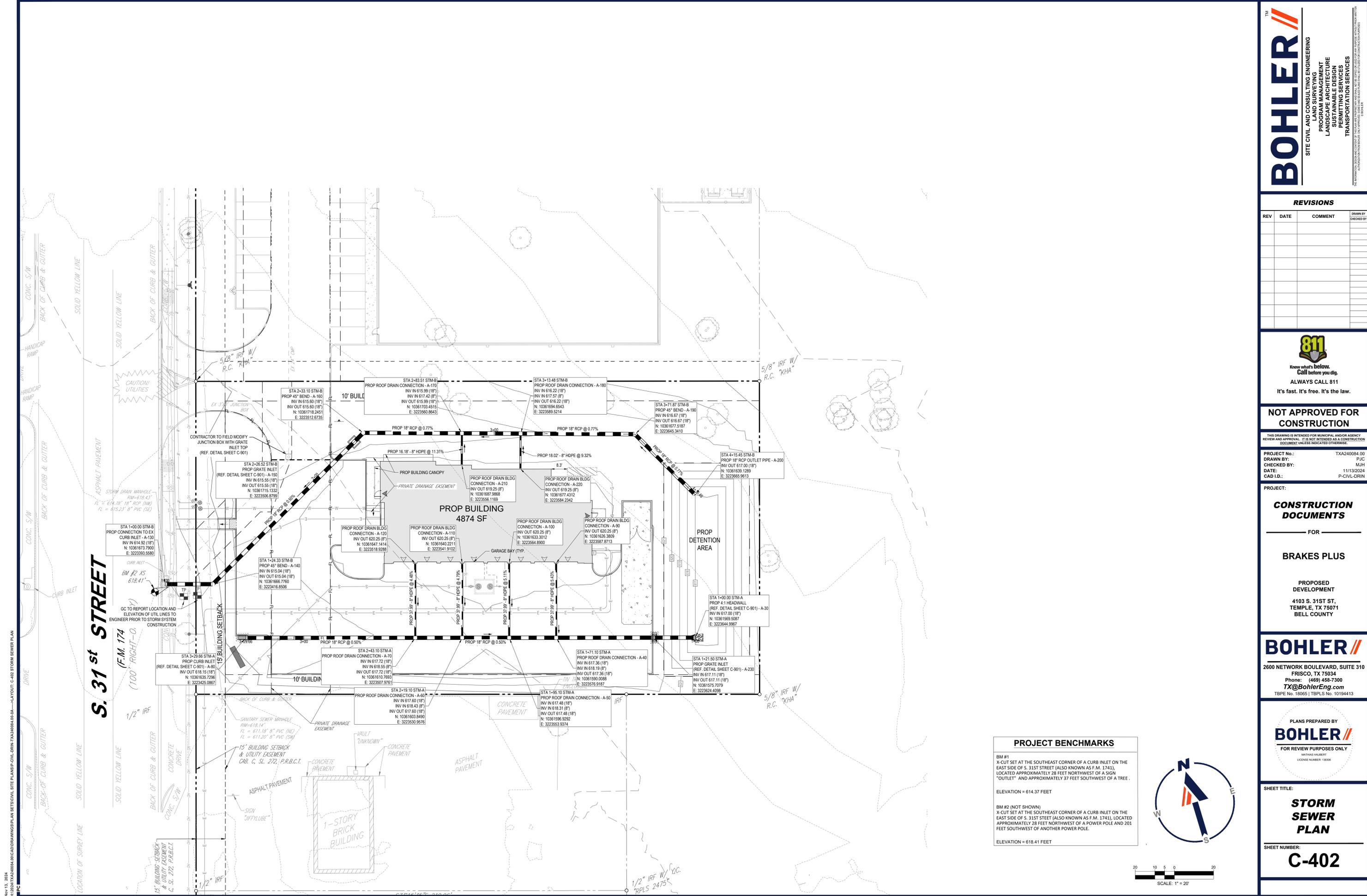
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Nov 13, 2024
 H:\2024\TX240084\00\CADD\DRAWINGS\PLAN SET\PLAN SET\SITE PLANS\PLAN SET\LAYOUT\C-301 SITE PLAN



Nov 13, 2024
 H:\2024\TX\240084\00\CADD\DRAWINGS\PLAN SET\DWG_C-402\DRN_LAYOUT_C-402 STORM SEWER PLAN

BOHLER
 SITE CIVIL AND CONSULTING ENGINEERING
 PROGRAM MANAGEMENT
 LANDSCAPE ARCHITECTURE
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PROJECT No.: TXA240084.00
 DRAWN BY: PJC
 CHECKED BY: MJH
 DATE: 11/13/2024
 CAD I.D.: P-CIVL-DRN

CONSTRUCTION DOCUMENTS

FOR

BRAKES PLUS

PROPOSED DEVELOPMENT
 4103 S. 31ST ST.
 TEMPLE, TX 75071
 BELL COUNTY

BOHLER
 2600 NETWORK BOULEVARD, SUITE 310
 FRISCO, TX 75034
 Phone: (469) 458-7300
 TX@BohlerEng.com
 TBPE No. 18065 | TBPLS No. 10194413

PLANS PREPARED BY
BOHLER
 FOR REVIEW PURPOSES ONLY
MATIAS HALBERT
 LICENSE NUMBER: 13836

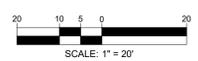
SHEET TITLE:
STORM SEWER PLAN

SHEET NUMBER:
C-402

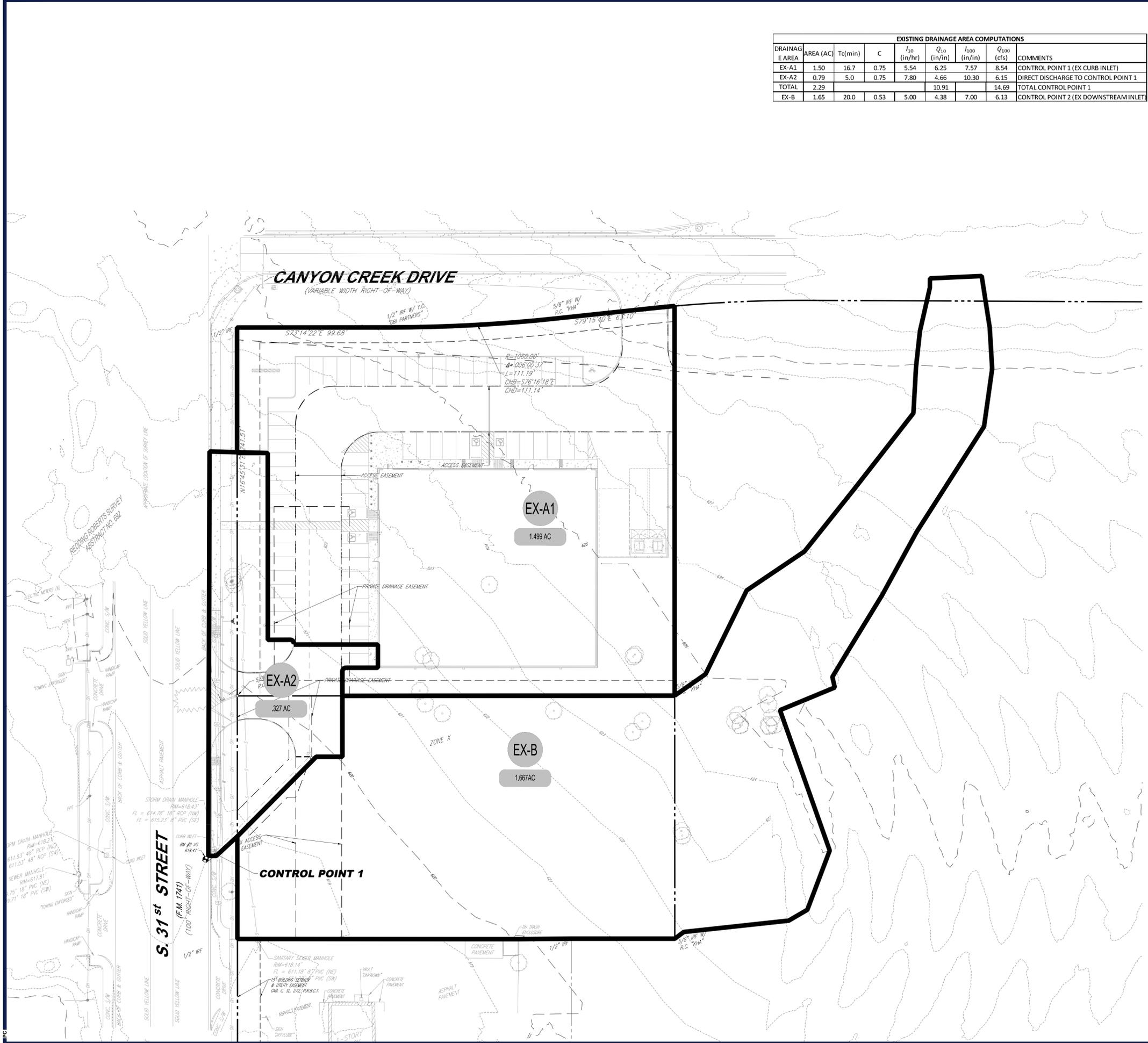
PROJECT BENCHMARKS

BM #1
 X-CUT SET AT THE SOUTHEAST CORNER OF A CURB INLET ON THE EAST SIDE OF S. 31ST STREET (ALSO KNOWN AS F.M. 1741), LOCATED APPROXIMATELY 28 FEET NORTHWEST OF A SIGN "OUTLET" AND APPROXIMATELY 37 FEET SOUTHWEST OF A TREE.
 ELEVATION = 614.37 FEET

BM #2 (NOT SHOWN)
 X-CUT SET AT THE SOUTHEAST CORNER OF A CURB INLET ON THE EAST SIDE OF S. 31ST STREET (ALSO KNOWN AS F.M. 1741), LOCATED APPROXIMATELY 28 FEET NORTHWEST OF A POWER POLE AND 201 FEET SOUTHWEST OF ANOTHER POWER POLE.
 ELEVATION = 618.41 FEET



EXISTING DRAINAGE AREA COMPUTATIONS								
DRAINAGE AREA	AREA (AC)	Tc(min)	C	I_{10} (in/hr)	Q_{10} (in/in)	I_{100} (in/in)	Q_{100} (cfs)	COMMENTS
EX-A1	1.50	16.7	0.75	5.54	6.25	7.57	8.54	CONTROL POINT 1 (EX CURB INLET)
EX-A2	0.79	5.0	0.75	7.80	4.66	10.30	6.15	DIRECT DISCHARGE TO CONTROL POINT 1
TOTAL	2.29				10.91		14.69	TOTAL CONTROL POINT 1
EX-B	1.65	20.0	0.53	5.00	4.38	7.00	6.13	CONTROL POINT 2 (EX DOWNSTREAM INLET)



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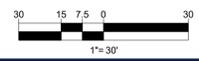
PROJECT No.: TXA240084.00
 DRAWN BY: PJC
 CHECKED BY: MJH
 DATE: 11/13/2024
 CAD ID: P-CIVIL-PRED

CONSTRUCTION DOCUMENTS
 FOR
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 PROPOSED DEVELOPMENT
 4103 S. 31ST ST.
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 BELL COUNTY

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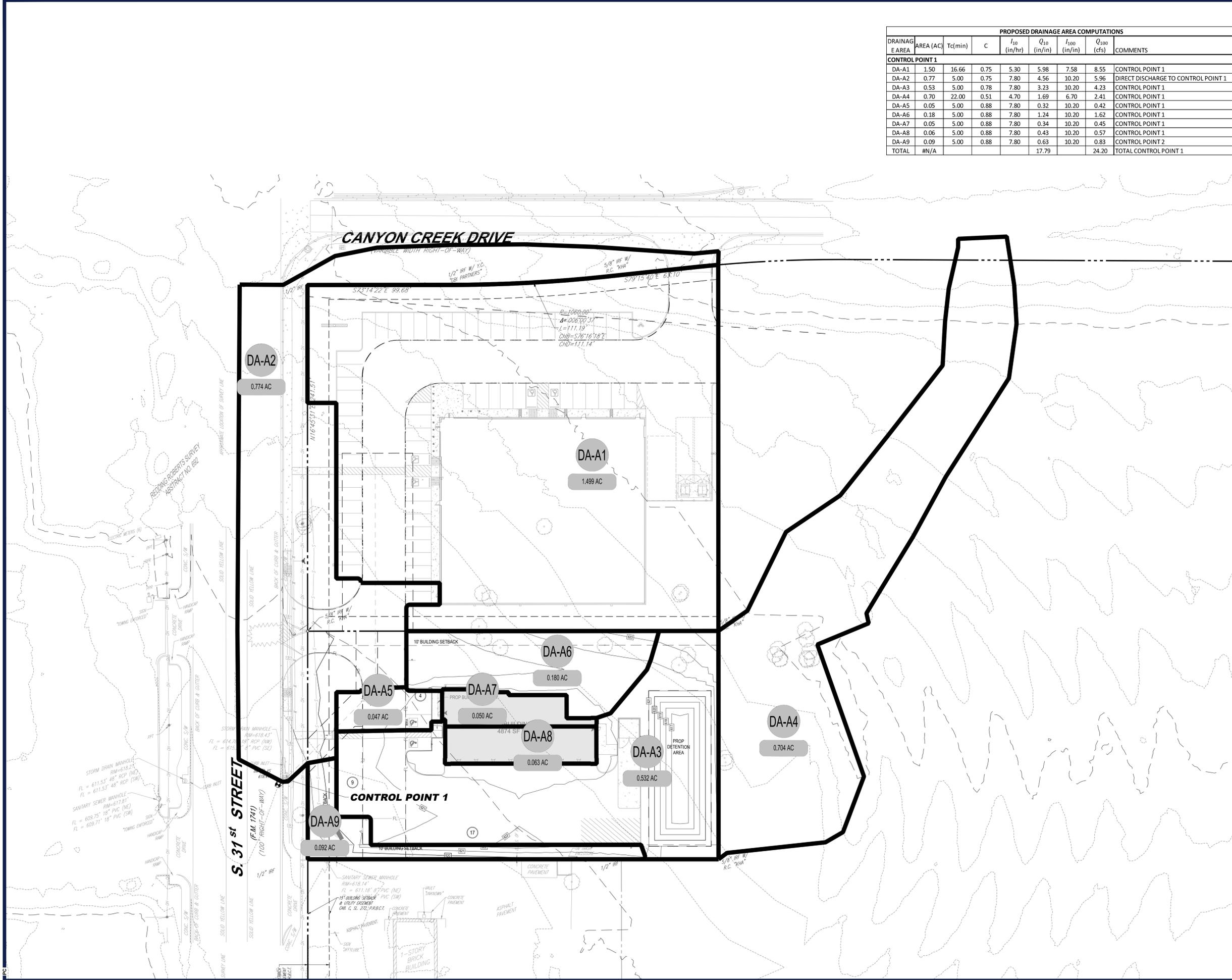
PLANS PREPARED BY
BOHLER
 FOR REVIEW PURPOSES ONLY
 MATHIAS HAUBERT
 LICENSE NUMBER: 13836

SHEET TITLE:
PRE DEVELOPMENT DRAINAGE AREA MAP
 SHEET NUMBER:
C-406



Nov 13, 2024
 H:\2024\TXA240084\00\CADD\DRAWINGS\PLAN SET\CIVIL SITE PLANS\PREL-CIVIL-PRED-TXA240084.00.dwg - LAYOUT - C-406.PRED

PROPOSED DRAINAGE AREA COMPUTATIONS								
DRAINAGE AREA	AREA (AC)	Tc (min)	C	I ₁₀ (in/hr)	Q ₁₀ (in/in)	I ₁₀₀ (in/in)	Q ₁₀₀ (cfs)	COMMENTS
CONTROL POINT 1								
DA-A1	1.50	16.66	0.75	5.30	5.98	7.58	8.55	CONTROL POINT 1
DA-A2	0.77	5.00	0.75	7.80	4.56	10.20	5.96	DIRECT DISCHARGE TO CONTROL POINT 1
DA-A3	0.53	5.00	0.78	7.80	3.23	10.20	4.23	CONTROL POINT 1
DA-A4	0.70	22.00	0.51	4.70	1.69	6.70	2.41	CONTROL POINT 1
DA-A5	0.05	5.00	0.88	7.80	0.32	10.20	0.42	CONTROL POINT 1
DA-A6	0.18	5.00	0.88	7.80	1.24	10.20	1.62	CONTROL POINT 1
DA-A7	0.05	5.00	0.88	7.80	0.34	10.20	0.45	CONTROL POINT 1
DA-A8	0.06	5.00	0.88	7.80	0.43	10.20	0.57	CONTROL POINT 1
DA-A9	0.09	5.00	0.88	7.80	0.63	10.20	0.83	CONTROL POINT 2
TOTAL	#N/A				17.79		24.20	TOTAL CONTROL POINT 1



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PROJECT No.: TXA240084.00
 DRAWN BY: PJC
 CHECKED BY: MJH
 DATE: 11/13/2024
 CAD ID: P-CIVL-PSTD

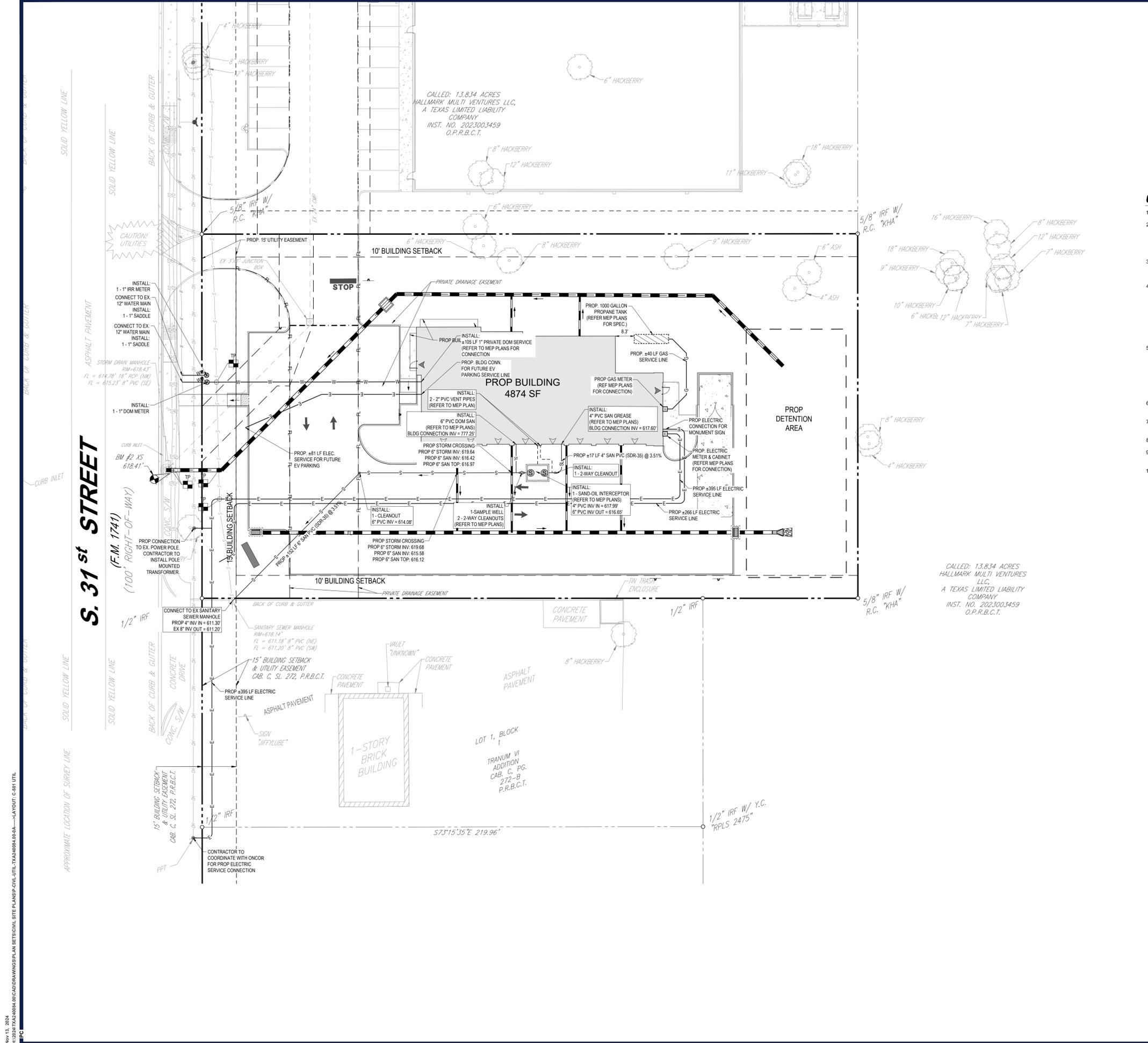
PROJECT:
CONSTRUCTION DOCUMENTS
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BRAKES PLUS
 PROPOSED DEVELOPMENT
 4103 S. 31ST ST.
 TEMPLE, TX 75071
 BELL COUNTY

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 2600 NETWORK BOULEVARD, SUITE 310
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 TBPE No. 18065 | TBPLS No. 10194413

PLANS PREPARED BY
BOHLER
 FOR REVIEW PURPOSES ONLY
 MATHIAS HAUBERT
 LICENSE NUMBER: 13936

SHEET TITLE:
POST DEVELOPMENT DRAINAGE AREA MAP
 SHEET NUMBER:
C-407

Nov 13, 2024
 H:\2024\TXA240084\00\CADD\DRAWINGS\PLAN SET\CIVIL SITE PLANS\POST DEVELOPMENT DRAINAGE AREA MAP\LAYOUT\C-407.PSD



CALLED: 13.834 ACRES
HALLMARK MULTI VENTURES LLC,
A TEXAS LIMITED LIABILITY
COMPANY
INST. NO. 2023003459
O.P.R.B.C.T.

CALLED: 13.834 ACRES
HALLMARK MULTI VENTURES
LLC,
A TEXAS LIMITED LIABILITY
COMPANY
INST. NO. 2023003459
O.P.R.B.C.T.

UTILITY PLAN NOTES:

- SEE SHEET C-102 FOR GENERAL NOTES, STANDARD ABBREVIATIONS, AND STANDARD DRAWING LEGEND
- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THESE PLANS AND THE CITY OF HARKER HEIGHTS STANDARDS AND SPECIFICATIONS. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING IMMEDIATELY OF ANY DISCREPANCIES.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES AS INDICATED ON THE PLAN IS APPROXIMATE. FIELD LOCATE ALL UNDERGROUND EXISTING UTILITIES LOCATED IN THE AREA OF WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CALL TEXAS811 PRIOR TO CONSTRUCTION FOR ASSISTANCE IN LOCATING EXISTING UNDERGROUND UTILITIES. SUBSURFACE FEATURES ARE SHOWN IN AN APPROXIMATE LOCATION. CONTRACTOR IS RESPONSIBLE FOR SUBSURFACE UTILITY EXPLORATION TO DETERMINE UNDERGROUND UTILITY LOCATIONS AND DEPTH. UNDERGROUND UTILITY LOCATIONS SHOWN ARE TO STANDARD OF ACCURACY BASED ON UTILITY MARKOUT METHOD NOTED IN SURVEY. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ANY CROSSING/CONFLICT DATE PRIOR TO STARTING CONSTRUCTION OF RELATED ADJACENT INFRASTRUCTURE.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. UNDERGROUND UTILITY LOCATIONS SHOWN ARE TO STANDARD OF ACCURACY BASED ON UTILITY MARKOUT METHOD NOTED IN SURVEY. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION AND NOTIFY THE ENGINEER OR RECORD IN WRITING SHOULD ANY DISCREPANCY EXIST.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATIONS WHERE NECESSARY AND PROTECTING EXISTING UTILITIES (BOTH SHOWN AND UNSHOWN).
- CONTRACTOR SHALL REPLACE, AT THEIR OWN EXPENSE, ANY EXISTING UTILITIES DAMAGED.
- THIS PLAN WAS PREPARED WITH SITE BOUNDARY, TOPOGRAPHY, UTILITY, AND ROAD INFORMATION TAKEN FROM A SURVEY PREPARED BY A LAND SURVEYOR. SEE SHEET 1 OF 1 FOR SURVEY REFERENCE.
- WATER AND SANITARY SEWER SEPARATION (VERTICAL AND HORIZONTAL) SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH TCEQ REQUIREMENTS.

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PROJECT No.: TXA240084.00
DRAWN BY: PJC
CHECKED BY: MJH
DATE: 11/13/2024
CAD ID: P-CIVL-UTIL

CONSTRUCTION DOCUMENTS

FOR

BRAKES PLUS

PROPOSED DEVELOPMENT
4103 S. 31ST ST.
TEMPLE, TX 75071
BELL COUNTY

BOHLER

2600 NETWORK BOULEVARD, SUITE 310
FRISCO, TX 75034
Phone: (469) 458-7300
TX@BohlerEng.com
TBPE No. 18065 | TBPLS No. 10194413

PLANS PREPARED BY
BOHLER
FOR REVIEW PURPOSES ONLY
MATHIAS HALBERT
LICENSE NUMBER: 13836

SHEET TITLE:
UTILITY PLAN

SHEET NUMBER:
C-501

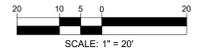
PROJECT BENCHMARKS

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ELEVATION = 614.37 FEET

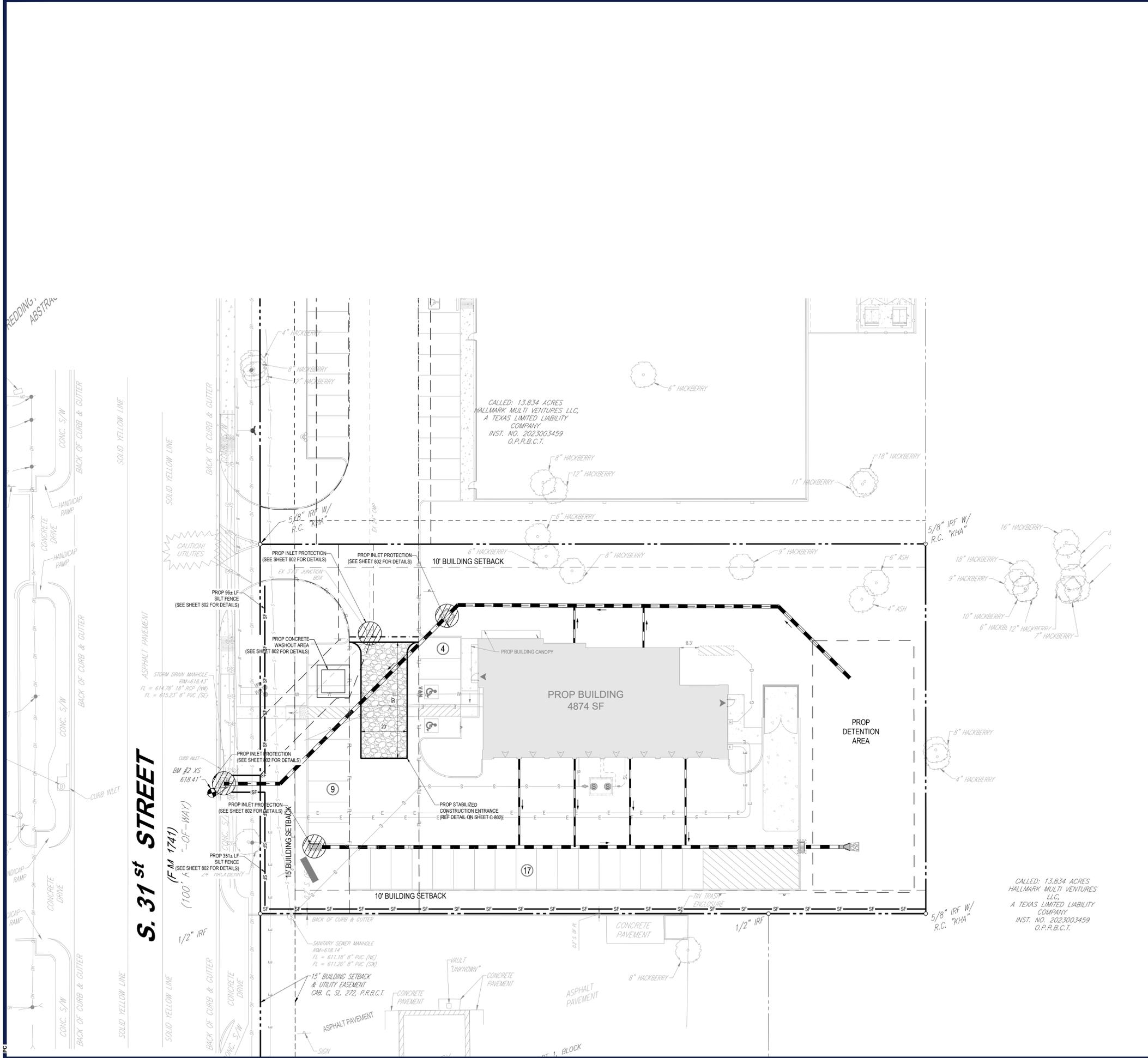
BM #2 (NOT SHOWN)
X-CUT SET AT THE SOUTHEAST CORNER OF A CURB INLET ON THE EAST SIDE OF S. 31ST STREET (ALSO KNOWN AS F.M. 1741), LOCATED APPROXIMATELY 28 FEET NORTHWEST OF A POWER POLE AND 201 FEET SOUTHWEST OF ANOTHER POWER POLE.
ELEVATION = 618.41 FEET



THIS PLAN TO BE UTILIZED FOR UTILITIES PURPOSES ONLY



Nov 13, 2024
 H:\2024\TXA24084.00\CADD\DRAWINGS\PLAN SET\CIVIL\EROSION\TXA24084.00.dwg - LAYOUT - C-801.ERS



EROSION CONTROL LEGEND

	LOD		LIMIT OF DISTURBANCE
	SF		SILT FENCE

EROSION CONTROL SCHEDULE AND PHASING:

- THE PROJECT SHALL GENERALLY CONFORM TO THE FOLLOWING
- PHASE 1 - GRADING**
- CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE ACCORDING TO THE APPROXIMATE LOCATION AND SHOWN ON EROSION CONTROL PLAN NOTES AND DETAIL SHEET.
 - BEGIN CLEARING AND GRADING OF SITE.
- PHASE 1 - UTILITIES**
- KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE.
 - INSTALL STORM DRAINS, SANITARY SEWER, AND WATER AS SPECIFIED ON PLAN SHEETS.
- PHASE 2 - PAVING**
- KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE. REMOVE AS NEEDED TO PAVE.
 - STABILIZE SUBGRADE.
 - PAVE STREETS AND SIDEWALKS AS SPECIFIED ON PLAN SHEETS.
 - RE-INSTALL ANY STORM WATER POLLUTION PREVENTION MEASURE REMOVED FOR PAVING OPERATIONS.
- PHASE 2 - LANDSCAPING AND SOIL STABILIZATION**
- REVEGETATE LOT AND PARKWAYS.
 - LANDSCAPE CONTRACTOR SHALL REVEGETATE ALL AREAS RESERVED FOR LANDSCAPE VEGETATIVE COVERS.
 - REMOVE EROSION CONTROL DEVICES WHEN MINIMUM 70% GROUND COVER IS ESTABLISHED. VEGETATION MUST BE ESTABLISHED BEFORE STRUCTURAL CONTROLS REMOVED.

EROSION CONTROL NOTES:

- EROSION CONTROL DEVICES SHALL BE INSTALLED ON ALL PROJECTS PRIOR TO BEGINNING CONSTRUCTION AND SHALL BE MAINTAINED THROUGHOUT THE PROJECT IN A CONDITION ACCEPTABLE TO THE CITY OF LIBERTY HILL.
- WIRE REINFORCEMENT SHALL BE USED ON ALL SILT FENCE USED FOR EROSION CONTROL.
- GEOTEXTILE FABRIC SHALL BE PLACED ON SUBGRADE PRIOR TO STONE PLACEMENT FOR CONSTRUCTION ENTRANCES.
- NO CROSS LOT DRAINAGE PERMITTED. STORMWATER SHALL BE DIRECTED TO THE NEAREST PUBLIC RIGHT-OF-WAY (STREETS & ALLEYS), DEDICATED DRAINAGE EASEMENTS, AND/OR CITY OF CELINA STORMWATER CONVEYANCE SYSTEM.
- EMERGENCY SPILL KIT TO BE LOCATED WITHIN JOBSITE TRAILER THROUGHOUT DURATION OF CONSTRUCTION.
- PRIOR TO ANY CONSTRUCTION, INCLUDING SITE GRADING AND EXCAVATION, AN APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE POSTED ON-SITE AND ALL REQUIRED BMPs INSTALLED.
- GENERAL CONTRACTOR SHALL MAINTAIN AND UPDATE THE EROSION AND SEDIMENT CONTROL PLAN AS CONSTRUCTION DICTATES. CURRENT AND CORRECT PLAN SHALL ALWAYS REMAIN ON-SITE AND BE READILY ACCESSIBLE TO THE CITY STORMWATER INSPECTOR.
- GENERAL CONTRACTOR OR THEIR REPRESENTATIVE SHALL INSPECT, AT A MINIMUM, THE SITE EVERY 2 WEEKS AND WITHIN 24 HOURS OF ANY PRECIPITATION OR SNOWMELT EVENT THAT CAUSES SURFACE EROSION (i.e., THAT RESULTS IN STORMWATER RUNNING ACROSS THE GROUND).
- GENERAL CONTRACTOR/OWNER IS FULLY RESPONSIBLE TO MAINTAIN ALL REQUIRED BMPs TO PREVENT EROSION AND SEDIMENT FROM LEAVING THE CONSTRUCTION SITE.
- FAILURE TO COMPLY WITH MINIMUM REQUIREMENTS IS A VIOLATION OF CITY ORDINANCES.
- SEE GENERAL NOTES ON SHEET C-102 FOR MORE DETAILS.

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PROJECT No.:	TXA24084.00
DRAWN BY:	PJC
CHECKED BY:	MJH
DATE:	11/13/2024
CAD ID:	P-CIVL-EROS

CONSTRUCTION DOCUMENTS

FOR

BRAKES PLUS

PROPOSED DEVELOPMENT
 4103 S. 31ST ST.
 TEMPLE, TX 75071
 BELL COUNTY

BOHLER

2600 NETWORK BOULEVARD, SUITE 310
 FRISCO, TX 75034
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 TX@BohlerEng.com
 TBPE No. 18065 | TBPLS No. 10194413

PLANS PREPARED BY
BOHLER
 FOR REVIEW PURPOSES ONLY
MATTHIAS HAUBERT
 LICENSE NUMBER: 13836

EROSION AND SEDIMENT CONTROL PLAN

SHEET NUMBER:
C-801

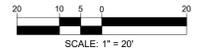
PROJECT BENCHMARKS

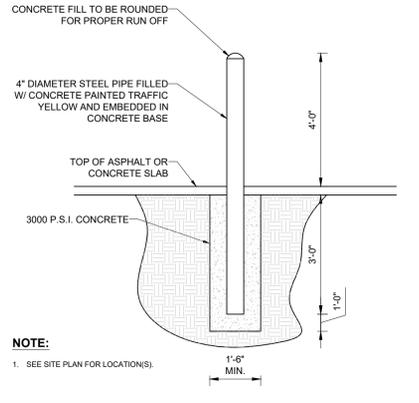
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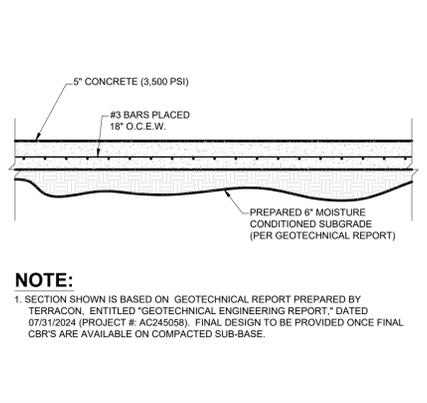
THIS PLAN TO BE UTILIZED FOR SOIL EROSION AND SEDIMENT CONTROL PURPOSES ONLY





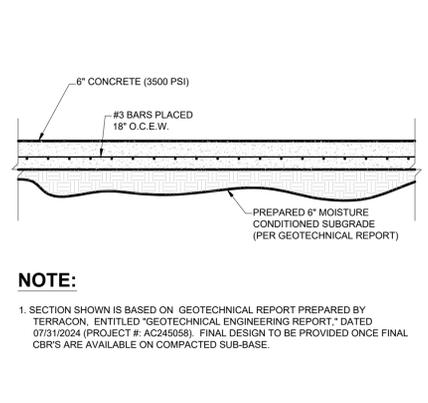
PIPE BOLLARD

(MS-S070101 - 06/2023) NOT TO SCALE



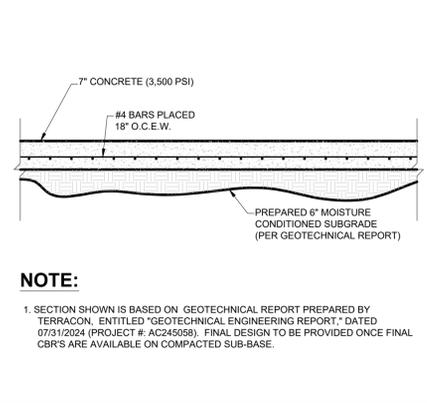
STANDARD DUTY CONCRETE SECTION

NOT TO SCALE



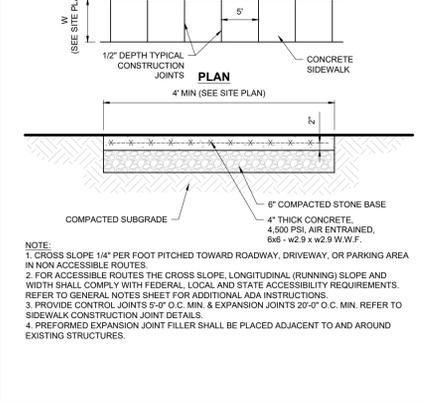
MEDIUM DUTY CONCRETE SECTION

NOT TO SCALE



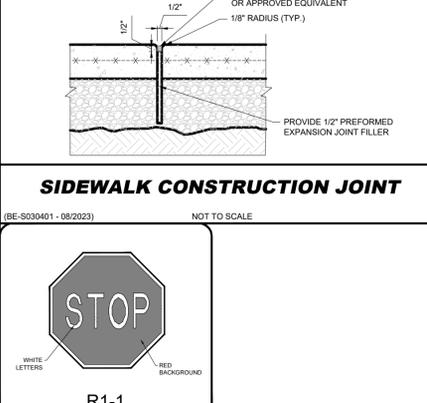
HEAVY DUTY CONCRETE SECTION

NOT TO SCALE



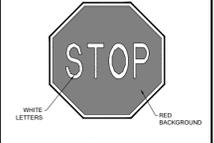
CONCRETE SIDEWALK

(BE-S030202 - 08/2023) NOT TO SCALE



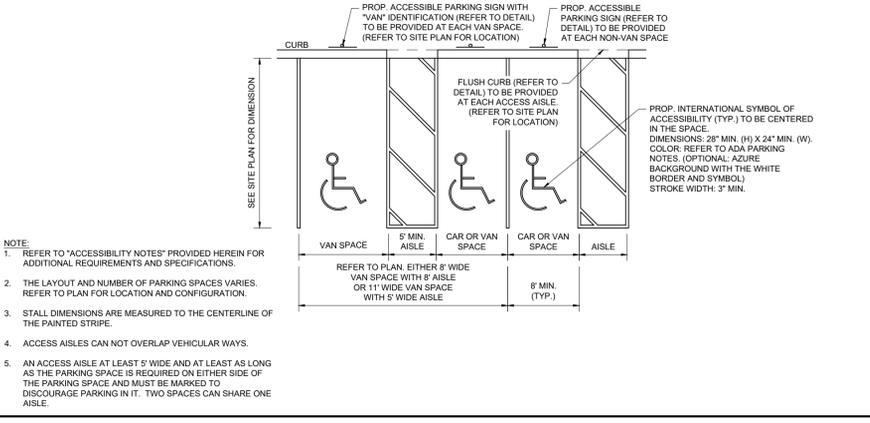
SIDEWALK CONSTRUCTION JOINT

(BE-S030401 - 08/2023) NOT TO SCALE



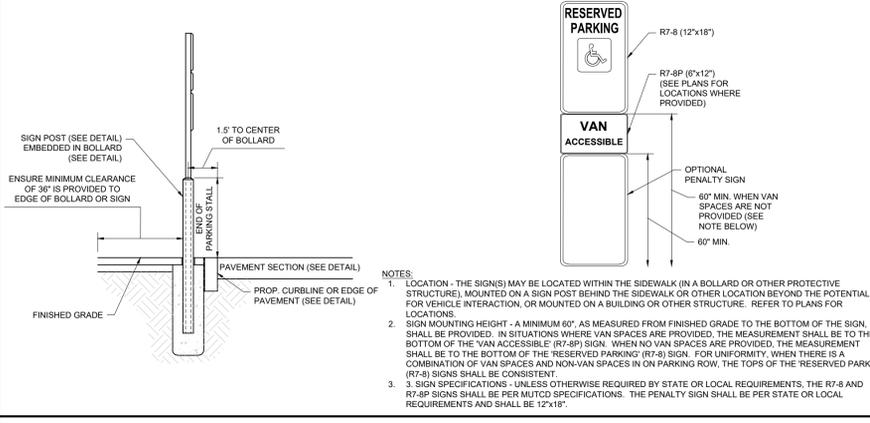
STOP

NOT TO SCALE



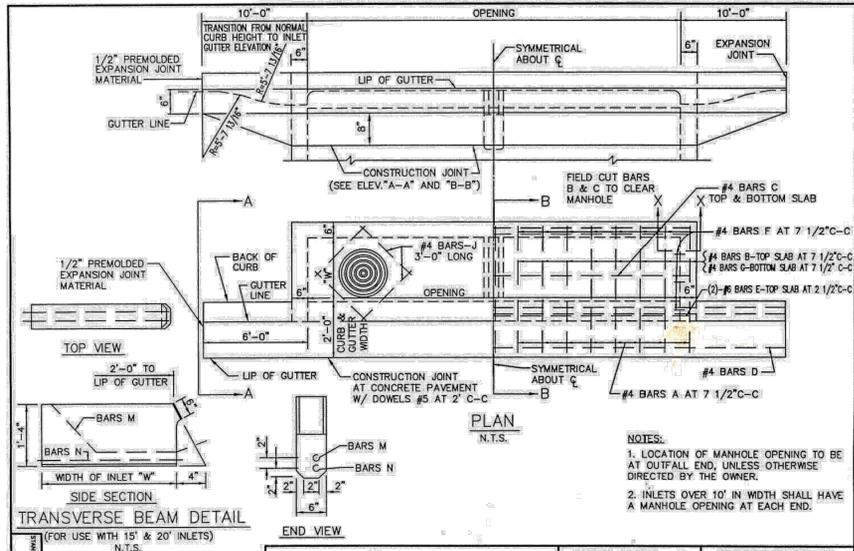
ADA PARKING STALL MARKING

(BE-S050104 - 08/2023) NOT TO SCALE



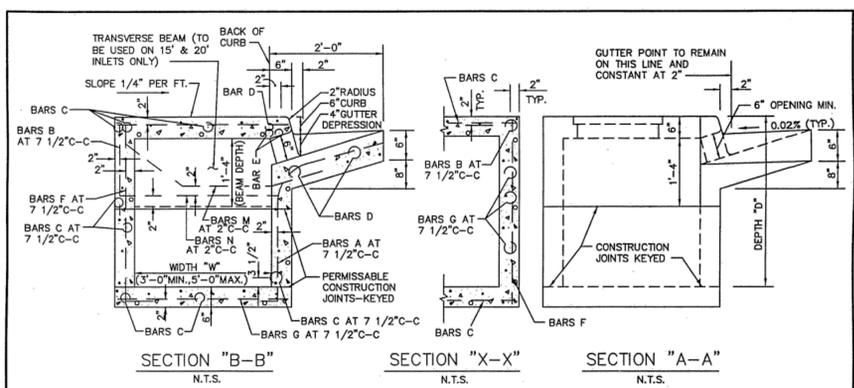
RESERVED PARKING SIGN

(BE-S060101 - 08/2023) NOT TO SCALE



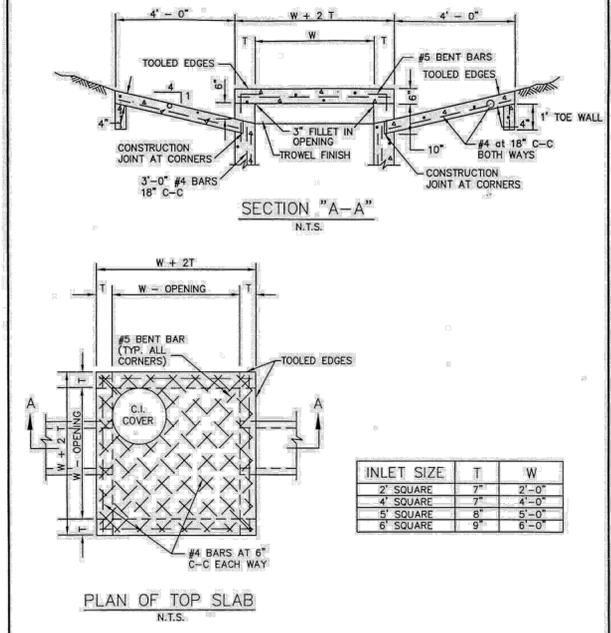
CURB INLET
5', 10', 15' OR 20' OPENING

North Central Texas Council of Governments
STANDARD SPECIFICATION REFERENCE 702
DATE OCT. '04
STANDARD DRAWING NO. 6020A



CURB INLET
CROSS SECTION & INLET THROAT

North Central Texas Council of Governments
STANDARD SPECIFICATION REFERENCE 702
DATE OCT. '04
STANDARD DRAWING NO. 6020B



DROP INLET
2', 4', 5' OR 6' SQUARE

North Central Texas Council of Governments
STANDARD SPECIFICATION REFERENCE 702
DATE OCT. '04
STANDARD DRAWING NO. 6040

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PROJECT No.: TXA240084.00
DRAWN BY: PJC
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DATE: 11/13/2024
CAD ID: P-CIVL-0ND5

CONSTRUCTION DOCUMENTS

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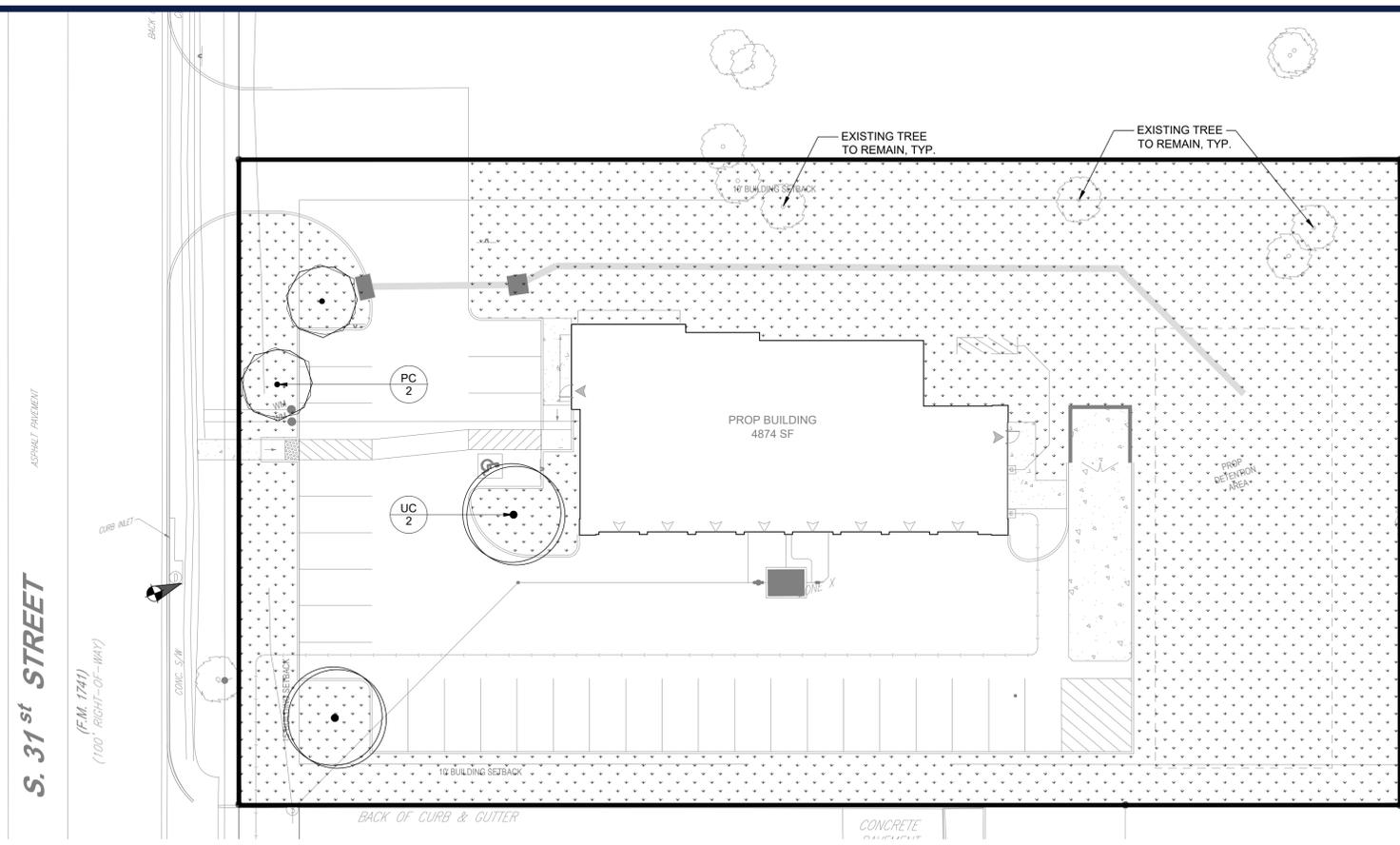
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TBPE No. 18065 | TBPLS No. 10194413

PLANS PREPARED BY
BOHLER
FOR REVIEW PURPOSES ONLY
MATTHIAS HAUBERT
LICENSE NUMBER: 13836

CONSTRUCTION DETAILS

SHEET NUMBER:
C-901



PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SIZE	QTY	
LARGE TREES						
	UC	Ulmus crassifolia	Cedar Elm	2" Cal.	2	
MEDIUM TREES						
	PC	Pistacia chinensis	Chinese Pistache	2" Cal.	2	
SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	QTY
GROUND COVERS						
	TRF	Cynodon dactylon x transvaalensis 'DT-1'	TiffTuf™ Bermudagrass	sod		24,469 sf

LANDSCAPE CALCULATIONS

CURRENT ZONING:	GENERAL RETAIL (GR), NO OVERLAY DISTRICTS
TOTAL LOT AREA:	45,853 SF (1.053 ACRES)
LANDSCAPE AREA REQUIRED:	2,293 SF (5% OF LOT AREA)
LANDSCAPE AREA PROVIDED:	24,469 SF (53% OF SITE AREA)
GENERAL LANDSCAPING:	
7.4.4	
A. 5% LANDSCAPE AREA (OF LOT AREA)	PROVIDED ABOVE
B. PUBLIC RIGHT AWAY LA	N/A
C. LANDSCAPING IN FRONT & SIDE YARDS	PROVIDED
D. LIVING TREES, SHRUBS, TURF, OR GROUND COVER NATIVE TO CENTRAL TEXAS/ BELL COUNTY	PROVIDED
E. 1 TREE/ 40' LINEAR FRONTAGE - (1 TREE/ 40' LF, 160' LF = 4 TREES)	4 PROPOSED TREES, 4 EXISTING TREES TO REMAIN
F. ALTERNATIVE TO TREES: 3 SHRUBS (5 GAL.) = 1 TREE/ 40' LINEAR FRONTAGE	N/A
G. NO LANDSCAPE ENCROACH VISIBILITY TRIANGLES	N/A
H. 7.7 WOOD OR MASONRY FENCE LOCATED WITHIN LANDSCAPE	N/A
PARKING LOT LANDSCAPING:	
INTERIOR ISLANDS:	
1 CURBED ISLAND/10 PARKING SPACES REQUIRED.	3 ISLANDS PROVIDED
(32 PARKING SPACES = 3 ISLANDS REQUIRED)	4 PROPOSED TREES
EACH ISLAND MUST BE MIN. 170 SF & CONTAIN ONE 2" CAL. TREE.	
TRASH ENCLOSURE SCREENING:	
SOLID WOOD OR MASONRY FENCE	PROVIDED, REFER TO CIVIL

BOHLER
 SITE CIVIL AND CONSULTING ENGINEERING
 PROGRAM MANAGEMENT
 LANDSCAPE ARCHITECTURE
 SUSTAINABLE DESIGN
 PERMITTING SERVICES
 TRANSPORTATION SERVICES

REVISIONS

REV	DATE	COMMENT	DRAWN BY	CHECKED BY

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 Know what's below.
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 ALWAYS CALL 811
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ISSUED FOR PERMIT

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT No.:	TXA240084.00
DRAWN BY:	PJC
CHECKED BY:	MJH
DATE:	08/30/2024
CAD ID:	BRAKES PLUS

PROJECT:

CONSTRUCTION DOCUMENTS

FOR
BRAKES PLUS

PROPOSED DEVELOPMENT
 4103 S. 31ST ST.
 TEMPLE, TX 75071
 BELL COUNTY

BOHLER
 2600 NETWORK BOULEVARD, SUITE 310
 FRISCO, TX 75034
 Phone: (469) 458-7300
 TX@BohlerEng.com
 TBPE No. 18065 | TBPLS No. 10194413

REGISTERED LANDSCAPE ARCHITECT
 STATE OF TEXAS
 3470
 08/30/2024

SHEET TITLE:

LANDSCAPE PLAN

SHEET NUMBER:
LP-1

EVERGREEN
 DESIGN GROUP
 (800) 680-9630
 9600 Great Hills Trl. Ste 150W
 Austin, TX 78759
 www.EvergreenDesignGroup.com

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.

WOOD MULCHES

AFTER ALL PLANTING IS COMPLETE, CONTRACTOR SHALL INSTALL 3" 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).

ROCK MULCHES

AFTER ALL PLANTING IS COMPLETE, CONTRACTOR SHALL INSTALL 4" THICK LAYER OF 1" - 2" AUSTIN RIVER ROCK MULCH WHERE SHOWN ON PLAN, OVER PERMEABLE WEEDMAT STAKED TO GRADE. 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. ALL TREE RINGS REQUIRE A 3" LAYER OF SHREDDED WOOD MULCH.

IRRIGATION CONCEPT

- 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.
- 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.
- 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.
- ALL PLANTS SHARING SIMILAR HYDROZONE CHARACTERISTICS SHALL BE PLACED ON A VALVE DEDICATED TO PROVIDE THE NECESSARY WATER REQUIREMENTS SPECIFIC TO THAT HYDROZONE.
- 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.

PLANTING GUARANTEE

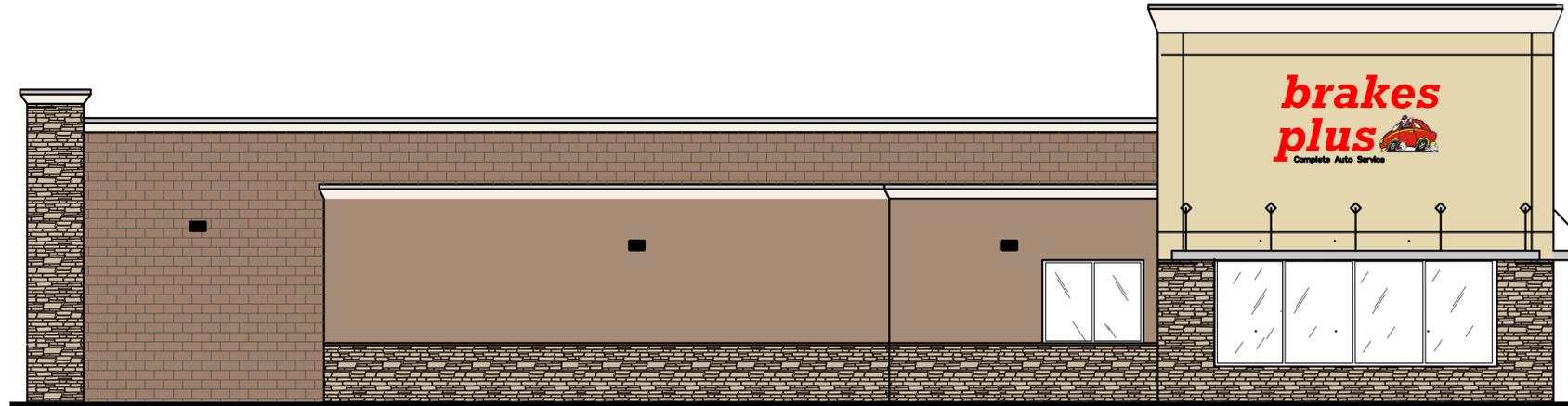
ALL REQUIRED LANDSCAPING MUST BE MAINTAINED IN LIVING CONDITION AFTER INSTALLATION. THE OWNER MUST REPLACE ANY PLANT MATERIAL THAT BECOMES DISEASED, DETERIORATED OR DIES. THE REPLACEMENT OF LANDSCAPING MUST BE DONE WITHIN 30 DAYS UNLESS APPROVED BY THE PLANNING DIRECTOR TO ALLOW DEFERRAL OF PLANTING TO A MORE OPTIMAL PLANTING SEASON.

GENERAL GRADING AND PLANTING NOTES

- 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.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING VEGETATION (EXCEPT WHERE NOTED TO REMAIN).
- 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.
 - 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.
 - 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.
 - 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.
 - 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.
 - 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.
 - 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.
- 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.).
 - 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.
 - 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).
 - 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.
- 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.
- SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.

brakes plus

TEMPLE, TEXAS



GENERAL NOTES

- WE CERTIFY THAT TO THE BEST OF OUR KNOWLEDGE AND INFORMATION, AND IN ACCORDANCE WITH ACCEPTED PROFESSIONAL STANDARDS, WE HAVE COMPLIED WITH APPLICABLE PORTIONS OF ANSIA117.1 2003 EDITION PERTAINING TO BUILDING ACCESSIBILITY FOR THE PHYSICALLY HANDICAPPED (ARS34-401 THROUGH 34-411), IBC CHAPTER STANDARDS AND 1990 AMERICANS WITH DISABILITIES ACT (ADA) TITLE III ACCESSIBILITY GUIDELINES FOR BUILDING AND FACILITIES.
- ALL DIMENSIONS ARE TO THE FACE OF STUD AT FRAME WALLS AND TO THE FACE OF MASONRY WALLS AS SHOWN, UNLESS NOTED OTHERWISE.
- INSTALL SEALANT AT ALL INTERIOR AND EXTERIOR JOINTS, SEAMS, CONNECTIONS OF OPENINGS WHICH WOULD ALLOW WATER OR AIR INFILTRATION EXCEPT AS NOTED OTHERWISE. SEALANT COLOR TO MATCH ADJACENT SURFACE. COLOR REQUIRES ARCHITECT'S APPROVAL.
- DOOR OPENINGS IN FRAME CONSTRUCTION WHICH ARE NOT DIMENSIONED ARE EITHER CENTERED IN THE WALL OR LOCATED 5' FROM THE FACE OF STUD TO FINISH JAMB
- ALL HANDICAPPED FACILITIES SHALL BE IDENTIFIED WITH APPROVED SIGNAGE.
- THE CONTRACTOR IS RESPONSIBLE FOR PRODUCING A WEATHER TIGHT BUILDING - - DETAILS AND OMISSIONS TO DRAWINGS NOTWITHSTANDING, ALL DRAWING CONFLICTS WHICH MAY NOT ALLOW THIS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF TH ARCHITECT.
- DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND PLANS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
- ALL FLOORS WITH DRAINS ARE SLOPED MINIMUM 1/8" PER FOOT TO DRAIN UNLESS NOTED OTHERWISE.
- LOCATION OF EXISTING UTILITIES ARE SHOWN TO THE BEST OF OUR KNOWLEDGE, CONTRACTOR SHALL HAVE THE RESPONSIBILITY OF VERIFYING IN THE FIELD BEFORE CONSTRUCTION STARTS, AND COORDINATING ALL NEW UTILITY LOCATIONS, CONNECTIONS, AND PENETRATIONS W/ CIVIL ENGINEER.
- ALL REQUIRED EXITS SHALL BE OPERABLE FROM THE INSIDE WITHOUT SPECIAL KNOWLEDGE OR THE USE OF A KEY.
- PROVIDE FULL 2X6 WOOD BLOCKING AS REQUIRED TO SECURELY ANCHOR ALL WALL MOUNTED EQUIPMENT (E.G., CABINETS, TOILET ROOM, ACCESSORIES, HARDWARE, ETC.), BLOCKING SHALL PROVIDED A RIGID CONNECTION CAPABLE OF SUPPORTING LOADS AS DETERMINED BY MANUFACTURER. PROVIDE SOLID 2X6 WOOD BLOCKING SECURED TO 2 MAIN WALL STUDS TO SECURELY SUPPORT ALL WALL STOPS (DOOR BUMPER).
- THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE WITH ALL TRADES, SIZES AND LOCATIONS OF ALL OPENINGS OF MECHANICAL AND ELECTRICAL EQUIPMENT, EQUIPMENT PADS, AS WELL AS POWER, WATER, AND DRAIN INSTALLATIONS, BEFORE PROCEEDING WITH WORK, ANY CONCERNS OF STRUCTURAL CONFLICTS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. A REASONABLE RESPONSE TIME SHALL BE ALLOWED.
- ALL FLOOR OR WALL OPENINGS REQUIRED FOR PIPES, DUCTS, CONDUITS, ETC. SHALL BE SEALED IN A MANNER APPROVED BY THE ARCHITECT.
- ROOMS ENCLOSED WITH 1-HOUR RATED WALLS REQUIRE RATED DOORS, 1-HOUR PARTITIONS PENETRATING THROUGH AND ABOVE ROOF SURFACE AND STRUCTURE ABOVE, ANY DUCTS PASSING THROUGH WALLS REQUIRE FIRE DAMPERS, ANY CONDUIT OF PIPING REQUIRES RATED SEALANT.
- STRUCTURAL NOTES SHALL GOVERN TYPICAL CONDITIONS WHETHER OR NOT SPECIFICALLY DETAILED OR NOTED.
- CONTROL JOINTS SHALL BE PROVIDED IN CONCRETE FLOOR SLABS AND MASONRY WALLS WHETHER OF NOT SPECIFICALLY REFERENCED ON PLANS, THE MAXIMUM AREA PERMITTED BETWEEN JOINTS SHALL BE 650 SQUARE FEET FOR REINFORCED CONCRETE SLABS, 250 SQUARE FEET FOR NON-REINFORCED SLABS AND 400 SQUARE FEET FOR MASONRY UNLESS SHOWN OTHERWISE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY ELECTRIC CONNECTIONS, METERS, TRANSFORMERS AND GENERATORS.
- IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ELECTRICAL RECEPTACLES AND SWITCHES TO AVOID CASEWORK, DOORS, ETC.
- CAULK ALL INTERIOR AND EXTERIOR JOINTS.
- FOLLOW ALL RECOMMENDATIONS OF THE SOILS REPORT BY TERRACON (512-628-8600), PROJ. #AC245058, DATED 7/31/24.

PROJECT TEAM

OWNER:	EXPRESS OIL 1880 SOUTHPARK DRIVE BIRMINGHAM, AL 35244 ANDY GOLDEN 205943-5770
ARCHITECT:	NORMAN L. HERMAN 5265 RIO GRANDE # 202 LITTLETON, COLORADO 80120 (303)385-1203 ATTN: NORMHERMAN@ARCODEV.COM
STRUCTURAL ENGINEER:	PERFORMANCE ENGINEERING 7400 EAST ORCHARD ROAD, # 240 ENGLEWOOD, COLORADO 80111 (303)721-3322 ATTN: TOM SCHOTT
MECHANICAL PLUMBING ELECTRICAL ENGINEER:	LOREN PRIEST 12005 ANTELOPE TRAIL, PARKER, COLORADO 80138 (303)748-1189 ATTN: LOREN@EEPARKER.COM
CIVIL ENGINEER:	MCADAMS 4400 STATE HIGHWAY 121, SUITE 800 LEWISVILLE, TX. 75056 ATTN: JOSH BARTON 469-928-8845 JBARTON@MCADAMSCO.COM

SHEET INDEX

ARCHITECTURAL

A0	COVER SHEET
A0.1	ACCESSIBLE DETAILS
A1-1	ARCHITECTURAL SITE PLAN & DETAILS
A2-1	FLOOR PLAN
A2-2	EQUIPMENT PLAN
A2-3	REFLECTED CEILING PLAN
A2-4	ROOF PLAN
A3-1	EXTERIOR BUILDING ELEVATIONS
A4-1	BUILDING SECTIONS/ENVELOPE COMCHECK
A4-2	BUILDING SECTIONS
A4-3	WALL SECTIONS / DETAILS
A4-4	WALL SECTIONS / DETAILS
A4-5	WALL SECTIONS/DETAIL
A4-6	WALL SECTIONS/DETAIL
A5-1	DETAILS
A5-2	INTERIOR ELEVATIONS AND DETAILS
A6-1	INTERIOR ELEVATIONS AND DETAILS
A6-2	SCHEDULE / DETAILS
A6-3	FURNITURE AND FIXTURE DETAILS
A6-3	MATERIAL FINISHES

STRUCTURAL

S1-0	GENERAL NOTES
S2-0	FOUNDATION PLAN
S2-1	ROOF FRAMING PLAN
S3-0	SECTIONS AND DETAILS
S3-1	SECTIONS AND DETAILS
S3-2	SECTIONS AND DETAILS
S3-3	SECTIONS AND DETAILS

MECHANICAL

M0.1	MECH. SPECS, SCHEDULE, & LEGEND
M0.2	MECHANICAL SEQUENCE OF OPERATIONS/SPECS/SCHEDULES
M1.0	MECHANICAL PLAN
M1.1	MECHANICAL PLAN
M1.2	MECHANICAL ROOF PLAN
M2.1	MECHANICAL DETAILS
M3.0	MECHANICAL COMCHECK

PLUMBING

P0.1	PLUMBING SPECS, SCHEDULES AND LEGEND
P1.0	UNDERGROUND PLUMBING PLAN
P1.1	PLUMBING PLAN
P2.1	PLUMBING ROOF PLAN
P3.1	PLUMBING DETAILS
P4.0	PLUMBING ISOMETRICS

ELECTRICAL

E0.1	ELECTRICAL GENERAL NOTES AND ELECTRICAL LEGEND
ES1.1	ELECTRICAL SITE PLAN AND SITE LIGHTING
E1.1	ELECTRICAL LIGHTING PLAN
E2.1	ELECTRICAL POWER PLAN
E3.1	ELECTRICAL ROOF PLAN
E4.1	ELECTRICAL ONE LINE DIAGRAM, SCHEDULES AND CALCULATIONS
E5.1	LIGHTING COM CHECK

LOCATION-LEGAL DESCRIPTION

4900 NORTH MAY AVENUE
OKLAHOMA CITY, OKLAHOMA

CODE INFORMATION

APPLICABLE CODES

CODE OF ORDINANCES, CITY OF TEMPLE, TEXAS
2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL PLUMBING CODE
2015 NATIONAL MECHANICAL CODE
2017 NATIONAL ELECTRICAL CODE
2015 IECC

TYPE OF CONSTRUCTION

TYPE V-B

PLUMBING FIXTURES

2 RR. REQ.
2 RR. PROVIDED

NUMBER OF EXITS

2 REQ.
2 PROVIDED

MAXIMUM BUILDING HEIGHT

1 STORY

ALLOWABLE BUILDING AREA

9,000 S.F.

EXIT WIDTH

42 x 0.2 = 9" REQ.
36" PROVIDED

ACTUAL BUILDING AREA

4,897 S.F.

OCCUPANCY

M AND S-1
(MOTOR VEHICLE REPAIR GARAGE) NON-SEPARATED USES

OCCUPANT LOAD COUNT

SALES / WAITING AREA - 607 SF/ 60 OLF = 11 OCCUPANTS
BREAK ROOM - 125 SF/15 = 9 OCCUPANTS
ADMIN / OFFICE - 116 SF / 100 OLF = 2 OCCUPANTS
INVENTORY - 504 SF / 300 OLF = 2 OCCUPANTS
SERVICE BAYS - 3,221 SF / 200 = 16 OCCUPANTS
RESTROOMS - 148F /100 2 OCCUPANTS

TOTAL OCCUPANT LOAD = 42 OCCUPANTS

FIRE PROTECTION

BUILDING IS NON SPRINKLED

ROOFING MATERIALS

REQUIRED: CLASS "C" (CAN BE CLASS A OR B PER CODE)
PROVIDED: CLASS "A" ROOF

ROOF INSULATION REQUIREMENT: MEETS ASTM C 1289
ROOF INSULATION PROVIDED: MEETS ASTM C 1289

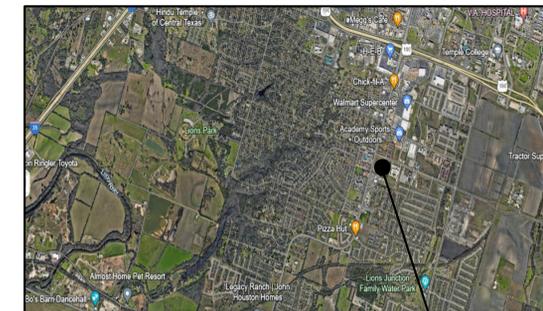
NUMBER OF EXITS REQUIRED:
2 REQUIRED.....2 PROVIDED

FIRE RESISTANCE OF EXTERIOR WALLS :
NONE REQUIRED.....DISTANCE GREATER THAN 30 FEET AND TYPE 5 CONSTRUCTION HAS NO REQUIREMENTS

FIRE RESISTANCE OF ELEMENTS :
TYPE 5B CONSTRUCTION HAS NO REQUIREMENTS

OPENING PROTECTION REQUIREMENTS:
NO REQUIREMENTS - FIRE SEPARATION DISTANCE EXCEEDS 30 FEET

VICINITY MAP



BRAKES PLUS
LOCATION

VICINITY PLAN

HAZARDOUS GLAZING REQUIREMENTS:
THESE REQUIREMENTS HAVE BEEN MET.....SEE SHEET A6-1
PARAPET REQUIREMENTS - PARAPETS MEET REQUIREMENTS. THEY EXCEED 30" IN HEIGHT HAD HAVE NO REQUIREMENT FOR FIRE RESISTANCE (SEE EXT. WALLS ABOVE)

REQUIRED PLUMBING FIXTURES:
- 2 RESTROOMS REQUIRED AND TWO PROVIDED
- 2 WATER CLOSETS REQUIRED AND TWO PROVIDED
- 2 LAVATORIES REQUIRED AND TWO PROVIDED
- HANDICAP WATER FOUNTAIN REQUIRED AND 1 PROVIDED
- 1 SERVICE SINK REQUIRED AND ONE PROVIDED.

ROOF DRAINAGE REQUIREMENTS:
ROOF DRAINAGE HAS BEEN PROVIDED PER #1503. SEE SUBMITTAL DWG A2-4 AND PLUMBING DRAWINGS

BRAKES PLUS
SEC OF CANYON CREEK DRIVE & S. 31ST STREET
TEMPLE, TX.



ARCHITECT OF RECORD

COMMENTS

FOR BLDG. DEPT SUBMITTAL

08.26.24

REVISION

DATE



SHEET

A0

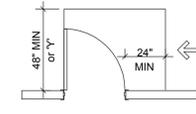
COVER SHEET

ICC A117.1-2009 : ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

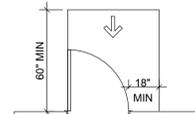
ALL INTERIOR CONSTRUCTION WITHIN THE SCOPE OF THIS PROJECT IS REQUIRED TO BE ACCESSIBLE AS SET FORTH IN THE '2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, UNLESS NOTED OTHERWISE

DOORS

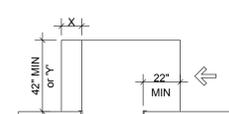
- Doors, doorways, and gates that are part of an accessible route shall comply with 404.
- Door openings shall provide a clear width of 32 inches, unless the opening is more than 24 inches deep, in which case the clear width of the opening shall be measured between the face of the door and the stop, with the door open 90 degrees.
- There shall be no projections into the clear opening lower than 34 inches. Projections into the clear opening between 34 inches and 80 inches shall not exceed 4 inches.
- In accordance with 404.2.3, exception 2, door closers and stops shall be permitted to be a minimum of 78 inches above the floor or ground.
- Minimum maneuvering clearances at swinging doors shall comply with ICC A117.1-2009 Section 404.2.3, Table 404.2.3.2 and Figure 404.2.3.2.
- Fire doors shall have a minimum opening force allowable by the appropriate administrative authority.
- Hinged doors other than fire doors shall have an opening force of 5 pounds maximum.
- Sliding doors shall have an opening force with 404.2.10.
- Door and gate surfaces shall comply with 404.2.10.
- Doors shall be permitted to swing into turning spaces, per 304.4.
- Two doors in a series shall comply with ICC A117.1-2009 Section 404.2.5 and Figure 404.2.5.



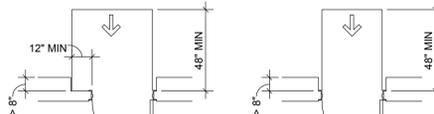
NOTE: Y = 54" MIN. if door has a closer



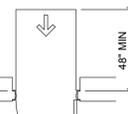
NOTE: X = 12" MIN. if door has both a closer and a latch



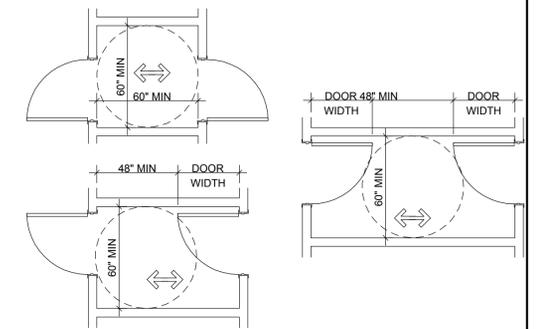
NOTE: Y = 48" MIN. if door has both a closer and a latch



NOTE: Door has both a closer and a latch



NOTE: Door can have either a latch OR closer, but not both



Doors in Series and Gates in Series

Latch-Side Approaches - Swinging Doors

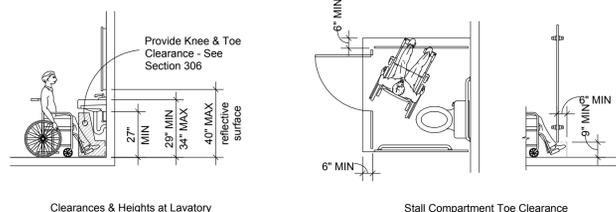
Front Approaches - Swinging Doors

Hinge-Side Approaches - Swinging Doors

Recessed Doors and Gates

RESTROOMS & DRINKING FOUNTAINS

- Where toilet rooms are provided, each toilet room shall comply with 603.
- Where toilet compartments are provided, at least one toilet compartment shall comply with 604.8.1. In addition to the compartment required to comply with 604.8.1, at least one compartment shall comply with 604.8.2 where six or more toilet compartments are provided, or where the combination of urinals and water closets totals six or more fixtures.
- Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches maximum above finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches maximum above the finish floor or ground.
- Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches minimum and 46 inches maximum above the finish floor.
- Water closets shall comply with 604.2 through 604.8.
- Toilet paper dispensers shall comply with ICC A117.1-2009, Chapter 6, Section 604.7 and shall not be located behind grab bars. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.
- Grab bars shall be provided at water closets and shall comply with ICC A117.1-2009, Chapter 6, Figure 604.5
- Urinals shall comply with 605 and shall be either wall-hung or stall type urinals.
- Lavatories shall comply with 606. Faucets for lavatories shall comply with 606.4. Exposed pipes under lavatories shall be insulated or otherwise protected to prevent contact.
- Drinking Fountains shall comply with ICC A117.1-2009, Chapter 6, Section 602.2
- Toilet paper dispensers shall comply with ICC A117.1-2009, Chapter 6, Figure 604.9.2.
- Fixed side wall grab bars shall comply with ICC A117.1-2009, Chapter 6, Section 604.5.1.



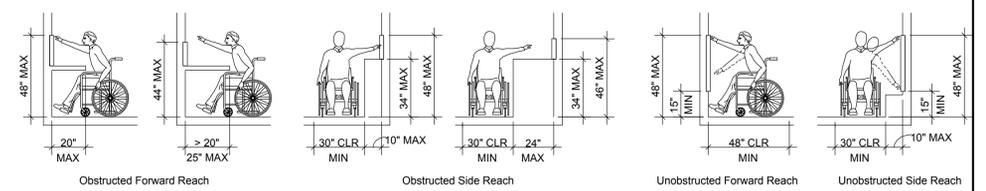
Clearances & Heights at Lavatory

Stall Compartment Toe Clearance

Drinking Fountain Clearance and Spout Location

REACH RANGES, CONTROLS & OPERATING MECHANISMS

- Reach ranges shall comply with 308.
- Operable parts shall comply with 309 and shall be placed within one or more of the reach ranges specified in 308.
- In accordance with 309.4, operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds maximum.



Obstructed Forward Reach

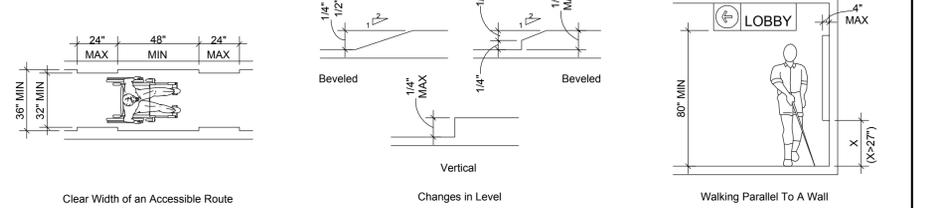
Obstructed Side Reach

Unobstructed Forward Reach

Unobstructed Side Reach

PATH OF TRAVEL

- The running slopes of walking surfaces that are part of an accessible route shall not be steeper than 1:20 with a cross slope that is not steeper than 1:48.
- Changes in level shall comply with ICC A117.1-2009 Section 303.
- The clear width of walking surfaces on an accessible route shall comply with 403.5.1.
- The clear width at turns along an accessible route shall comply with 403.5.2.
- In accordance with 403.5.3, an accessible route with a clear width of less than 60 inches shall provide passing spaces at intervals of 200 feet.



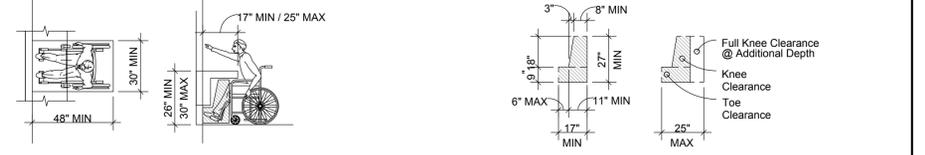
Clear Width of an Accessible Route

Changes in Level

Walking Parallel To A Wall

SEATING AT TABLES & COUNTERS

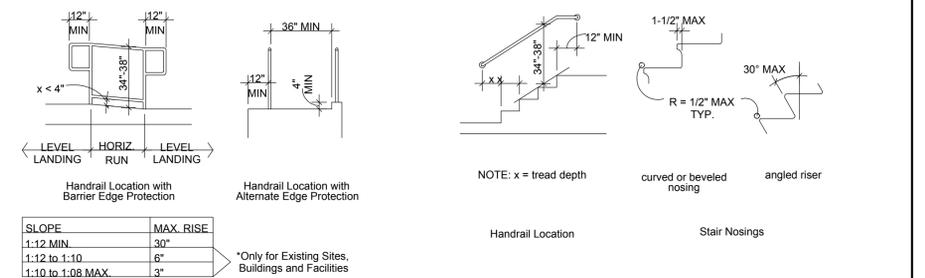
- Where dining surfaces are provided for the consumption of food and drink, at least 5 percent of the seating spaces and standing spaces at the dining surfaces shall comply with 902. In addition, where work surfaces are provided for use by other than employees, at least 5 percent shall comply with 902. Confirm actual seat counts with Table 221.2.1
- Dining surfaces and work surfaces required to comply with 902 shall be dispersed throughout the space or facility containing dining surfaces and work surfaces.
- Dining surfaces and work surfaces shall comply with 902.2 and 903.3.



Toe and Knee Clearances

STAIRS AND RAMPS

- Ramps on accessible routes shall comply with 405.
- Ramp runs shall have a running slope not steeper than 1:12 with a cross slope not steeper than 1:48.
- The clear width of a ramp run or (where handrails are provided) the clear width between handrails shall be 36 inches minimum.
- The rise for any ramp run shall be 30 inches maximum.
- Ramps shall have landings at the top and the bottom of each ramp run complying with 405.7.
- Ramps with a rise greater than 6 inches shall have handrails complying with 505.
- Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and each side of ramp landings.
- Stairs that are part of a means of egress shall comply with 504.
- All steps on a flight of accessible stairs shall have uniform riser heights and uniform tread depths. Risers shall be between 4 inches and 7 inches in height. Treads shall be 11 inches deep minimum.
- Open risers are not permitted.
- Nosings in steps shall comply with 504.5.
- Stairway handrails shall comply with 505.



Handrail Location with Barrier Edge Protection

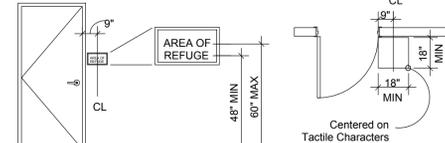
Handrail Location with Alternate Edge Protection

Handrail Location

Stair Nosings

SIGNAGE

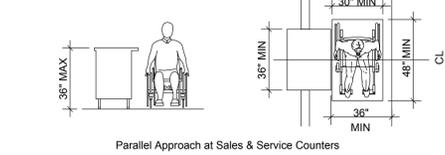
- Signs shall comply with 703.
- Signs identifying permanent rooms and spaces shall comply with 703.1, 703.2, and 703.5. Where pictograms are provided as designations of permanent rooms and spaces, the pictograms shall comply with 703.6 and shall have text descriptors complying with 703.2 and 703.5.
- Signs that provide direction to or information about spaces and facilities shall comply with 703.5.
- Where more than one check-out aisle is provided, check-out aisles complying with 904.3 shall be identified by the International Symbol of Accessibility complying with 703.7.2.1. Where check-out aisles are identified by numbers, letters, or functions, signs identifying check-out aisles complying with 904.3 shall be located in the same location as the check-out aisle identification.



Centered on Tactile Characters

FOODSERVICE LINES, TABLEWARE AREAS & CHECKOUT AISLES

- Where check-out aisles are provided, check-out aisles shall comply with 904.3 and be dispersed.
- Where provided, at least one of each type of sales counter and service counter shall comply with 904.4. Where counters are dispersed throughout the building or facility, counters complying with 904.4 also shall be dispersed.
- Food service lines shall comply with 904.5. Where self-service shelves are provided, at least 50 percent, but no fewer than one, of each type provided shall comply with 904.3 or 904.4 shall comply with 403.
- Queues and waiting lines servicing counters or check-out aisles required to comply with 904.3 or 904.4 shall comply with 403.
- Check-out aisles and sales and service counters shall comply with the applicable requirements of 904.
- All points of counters required to comply with 904 shall be located adjacent to a walking surface complying with 403.



Parallel Approach at Sales & Service Counters

BRAKES PLUS
SEC OF CANYON CREEK DRIVE & S. 31ST STREET
TEMPLE, TX



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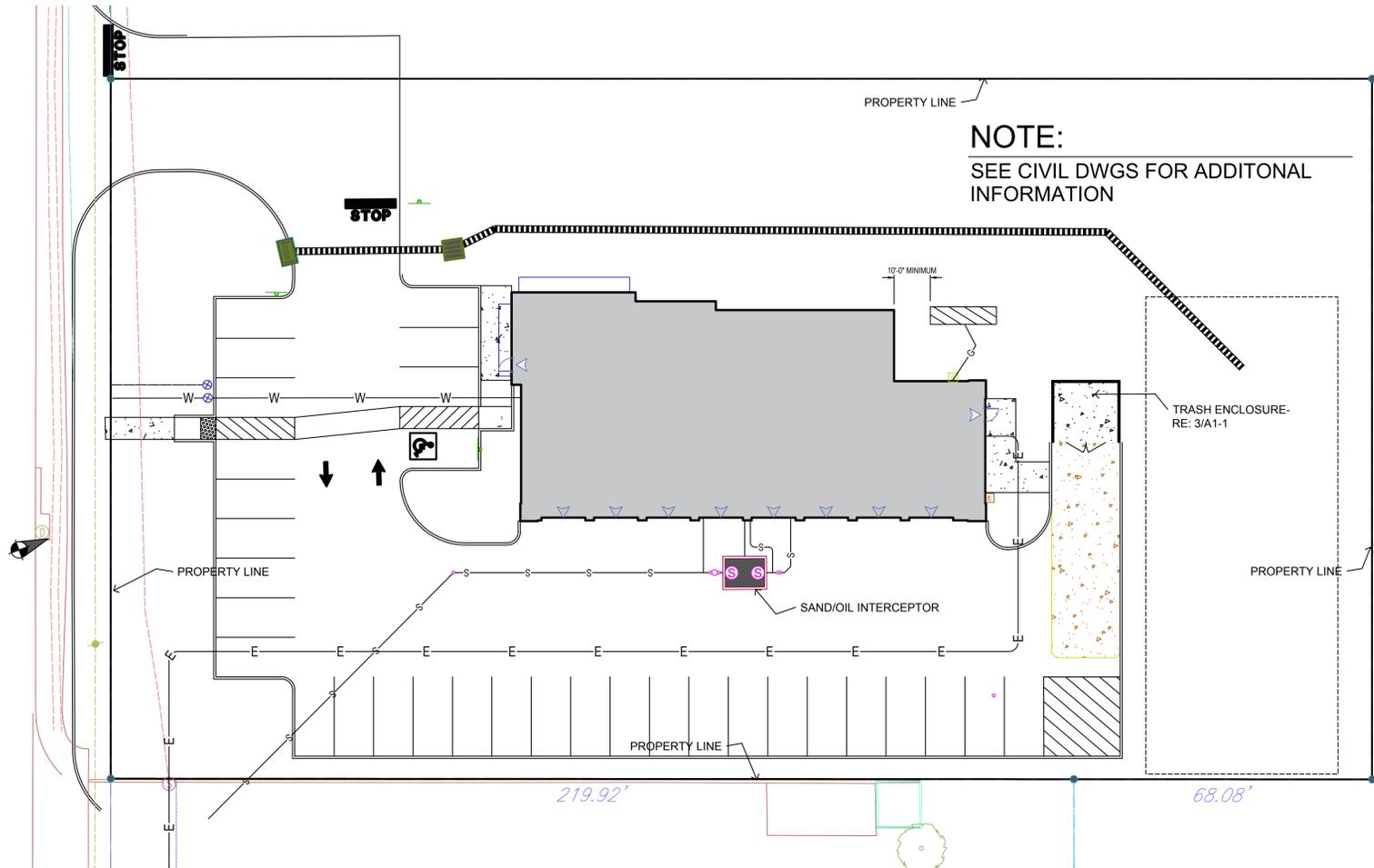
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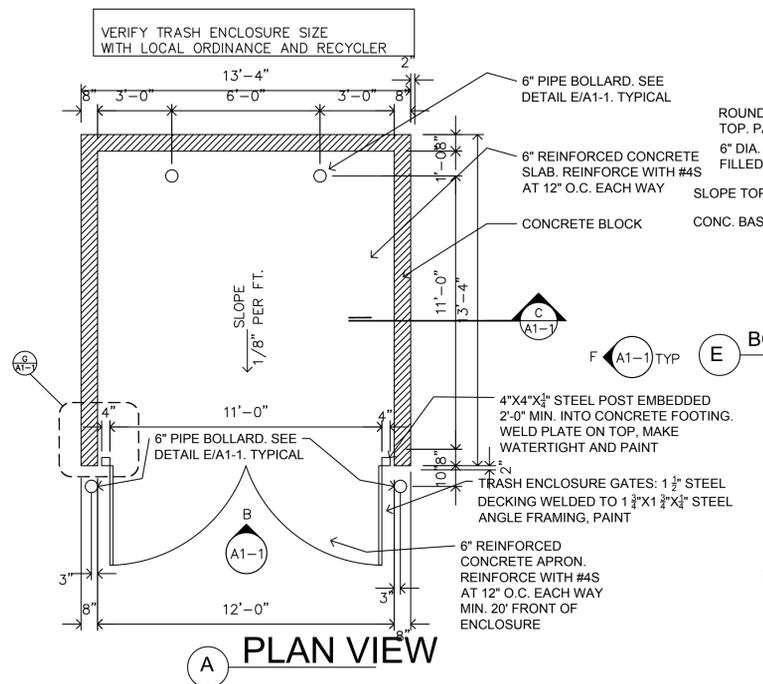
SHEET
A0.1
ACCESSIBLE DETAILS

S. 31st STREET

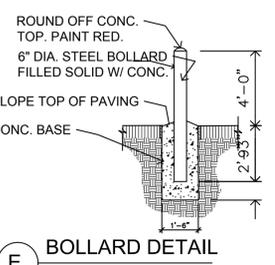
NOTE:
SEE CIVIL DWGS FOR ADDITIONAL INFORMATION



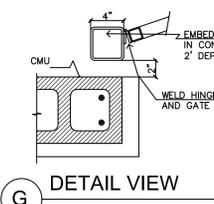
SITE PLAN
NO SCALE



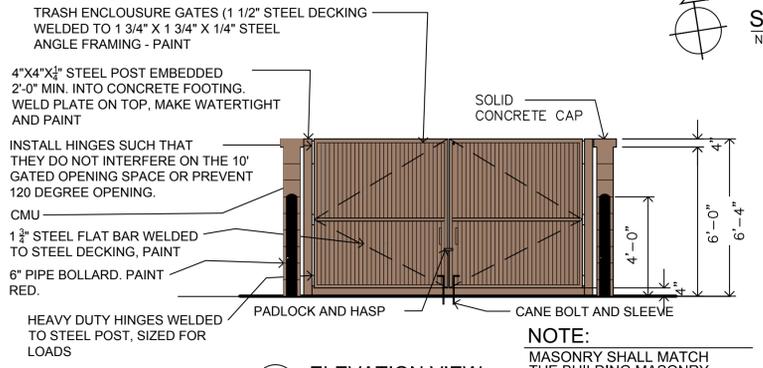
PLAN VIEW



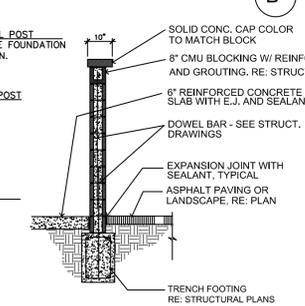
BOLLARD DETAIL



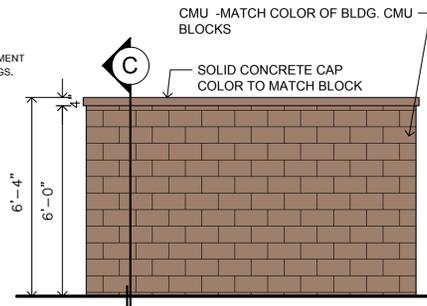
DETAIL VIEW



ELEVATION VIEW



BLOCK WALL DETAIL



WALL ELEVATION

3 TRASH ENCLOSURE DETAIL
NO SCALE

BRAKES PLUS
SEC OF CANYON CREEK DRIVE & S. 31ST STREET
TEMPLE, TX



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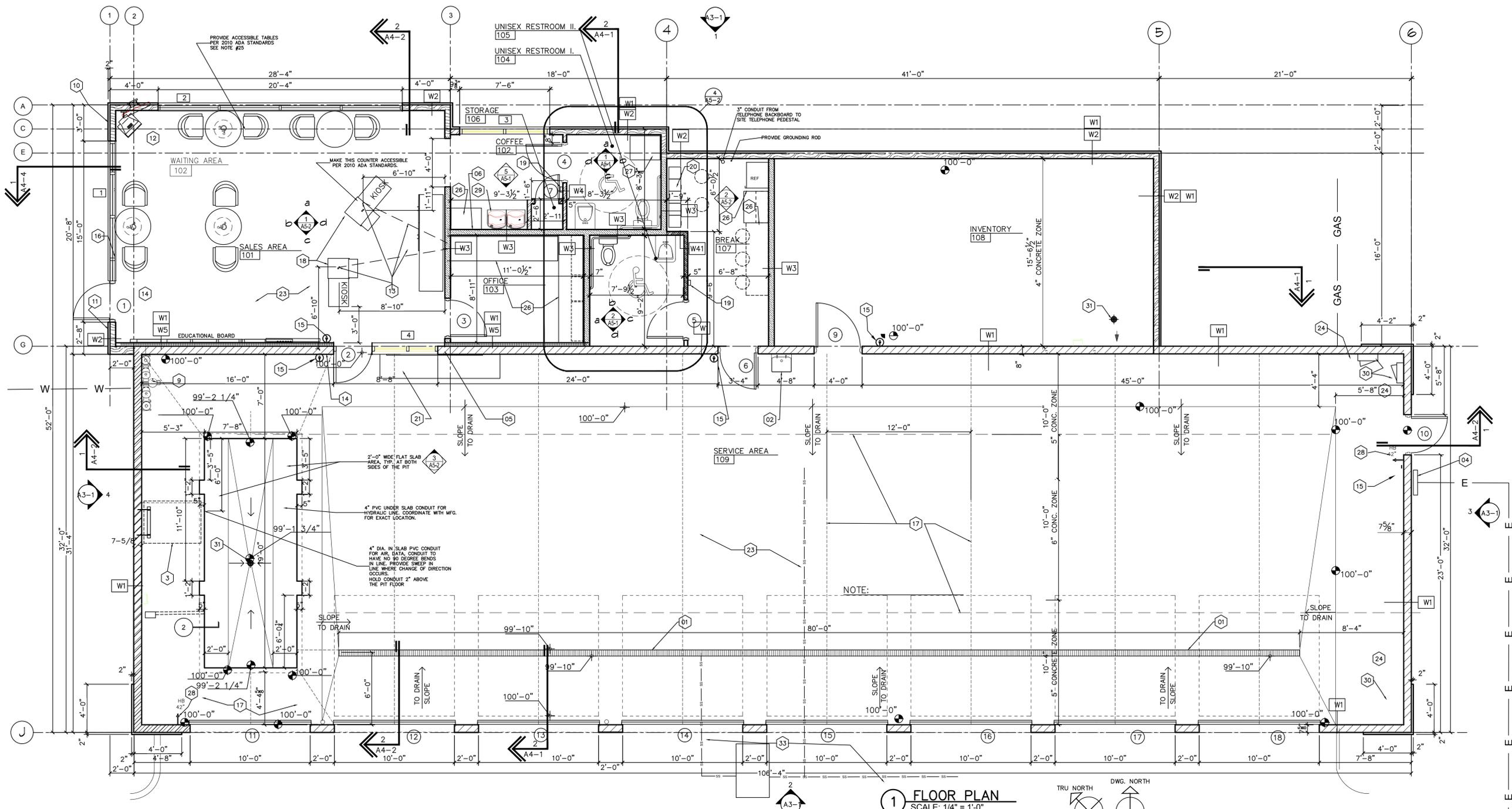


45 SPYGLASS DRIVE
LITTLETON, CO 80123
PHONE: 303.981-8925
NORMAN@ARCODEV.COM

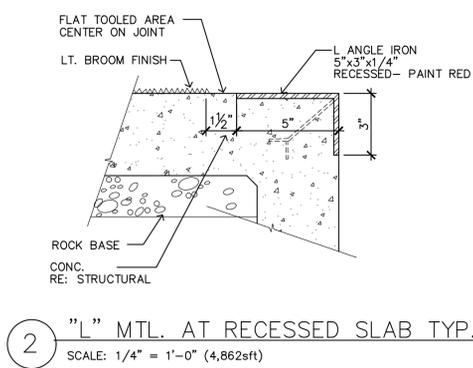
SHEET

A1-1

SITE PLAN AND DETAILS



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



2 "L" MTL AT RECESSED SLAB TYP.
SCALE: 1/4" = 1'-0" (4,862sf)

ID	WALL TYPE / SYMBOL	DESCRIPTION	UL LISTING
W1	8" NOM. CONCRETE BLOCK FULL HEIGHT / DECK	NOMINAL (88 PLAN) 8"X8" LIGHT WEIGHT CONCRETE BLOCK. PROVIDE LOOSE FILL INSULATION IN OPEN CELLS WHERE EXTERIOR. GROUT CELLS SOLID AS SPECIFIED BY THE STRUCTURAL DRAWINGS. MIN R VALUE OF 8.	-
W2	EXTERIOR NEW WOOD STUD WALL	3/4" GYP BD EACH SIDE OVER 2X6 WOOD STUDS @ 16" O.C. TO ELEVATION NOTED ON DRAWINGS. PROVIDE MOISTURE RESISTANT GYP BD AT WET LOCATIONS IN RESTROOM. USE EXTERIOR SHEATHING ON OUTSIDE SURFACES. PROVIDE MIN. FULL BATT R-19 INSULATION W/ VAPOR BARRIER (#30 KRAFT PAPER OF EQUAL CLASS II VAPOR BARRIER). PROVIDE WATER BARRIER GREENGLASS MAX BUILDING WRAP. PROVIDE DRAINAGE PER IBC SECTION 1404.2 & INSTALLED PER 1405.	-
W3	INTERIOR NEW WOOD STUD WALL TO STRUCTURE	3/4" GYP BD EACH SIDE OVER 2X6 WOOD STUDS @ 16" O.C. TO UNDERSIDE OF STRUCTURE ABOVE. PROVIDE MOISTURE RESISTANT GYP BD AT WET LOCATIONS IN RESTROOM.	-
W4	NEW INTERIOR WOOD STUD WALL	3/4" GYP BD EACH SIDE OVER 2X4 WOOD STUDS @ O.C.	-
W41	NEW INTERIOR FURRING	SAME AS W4, BUT HEIGHT IS ONLY 8'	-
W5	NEW INTERIOR WOOD STUD LOW-WALL	3/4" GYP BD OVER 2X2 WOOD FURRING STUDS @ 16" O.C. TO 6" ABOVE CEILING. PROVIDE FULL BATT INSULATION IN FURRED CAVITY.	-
W6	NEW INTERIOR WOOD STUD LOW-WALL	2X2 STEEL POSTS @ 4'-0" O.C. MAX. PROVIDE 2X3 WOOD STUD INFILL FRAMING BETWEEN POSTS. PROVIDE 3/4" GYP BD EACH SIDE OVER 3/4" CON. PLYWOOD AND LAMINATE. REFER TO DETAIL 5-A-601.	-

GENERAL WALL CONSTRUCTION NOTES:
PROVIDE SLIP TRACK HEAD RECEPTOR WHERE REQUIRED. ALL WALLS AROUND RESTROOMS TO RECEIVE R-19 BATT INSULATION. ALL RESTROOM CELINGS TO RECEIVE R-18 BATT INSULATION.

- FLOOR PLAN KEYNOTES:**
- 6" WIDE CONTINUOUS PRE-FORMED TRENCH DRAIN. MAX OPENING = 3/4". SEE PLUMBING DRAWINGS AND DRAIN SPEC.
 - DEEP-BASIN SERVICE SINK. RE: MECHANICAL DRAWINGS. PROVIDE 48" HIGH STAINLESS STEEL PANEL ON WALL BEHIND SINK.
 - ROOF LADDER (HATCH ABOVE) - RE: 2/A2-4 - COORDINATE EXACT LOCATION WITH ROOF JOIST LOCATIONS.
 - ELECTRICAL CONNECTION. REFER TO ELECTRICAL DRAWINGS.
 - PROVIDE ELECTRICAL CONDUIT FROM 18" AFF TO ABOVE CEILING AND PENETRATE THROUGH MASONRY WALL TO OFFICE.
 - COLD WATER LINE FOR COFFEE MACHINE. RE: PLUMBING DRAWINGS.
 - N/A.
 - NOT USED.
 - BACK FLOW PREVENTER. SEE CIVIL DRAWINGS. REFER TO PLUMBING DRAWINGS.
 - PROVIDE KEY DROP BOX. MODEL NO. DS2014K AS MANUFACTURED BY AMSEC. INSTALLED BY CONTRACTOR.
 - KNOX BOX. OBTAINED FROM LOCAL FIRE DEPARTMENT AND INSTALLED BY CONTRACTOR. VERIFY LOCATION WITH FIRE DEPARTMENT PRIOR TO INSTALLATION.
 - PROVIDE BACKING AS REQUIRED TO SUPPORT TV MOUNTING BRACKET. COORDINATE WITH OWNER.
 - CONDUIT IN SLAB FOR POWER & DATA.
 - PROVIDE SIGN AT EXIT "MAXIMUM NUMBER OF OCCUPANTS"
 - PROVIDE TYPE 208 FIRE EXTINGUISHER (VERIFY TYPE, SIZE, AND LOCATION WITH FIRE DEPARTMENT)
 - PROVIDE GYP BD AT END OF PART. (PAINT)
 - CONTROL JOINTS (TYP.)
 - KIOSK AND PRINTER CABINET FURNISHED AND INSTALLED BY CONTRACTOR
 - PROVIDE ACCESSIBLE SIGNAGE AT RESTROOM AS REQUIRED PER CODE
 - LOCKERS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR
 - SERVICE COUNTER FURNISHED AND INSTALLED BY CONTRACTOR
 - 22'-0" W X 7'-4" H OPENING
 - CONCRETE SLAB - RE: STRUCTURAL DRAWINGS
 - PROVIDE CONDUIT FOR CONTROLS AND PIPING TO LANDSCAPE MANIFOLD
 - CONTRACTOR SHALL PROVIDE BISTRO TABLES AS SHOWN ON THE FLOOR PLAN AND DETAIL 5B SHEET A6-2.
 - MILLWORK FURNISHED AND INSTALLED BY GENERAL CONTRACTOR
 - CONTRACTOR SHALL PROVIDE BISTRO TABLES AS SHOWN ON THE FLOOR PLAN AND DETAIL 5B SHEET A6-2.
 - 27'-24" X 30" X 12" UPPER CABINET FURNISHED AND INSTALLED BY GC. MOUNT BOTTOM AT 40" AFF.
 - HOSE BIB. REFER TO PLUMBING DRAWINGS.
 - WATER FOUNTAIN.
 - ELECTRICAL CIRCUIT PANELS
 - FLOOR DRAIN
 - METAL AWNING ABOVE
 - PROVIDE 6" DEEP CONCRETE APRON PAD W/ STEEL REINFORCING 10' OUT FROM BUILDING.

- GENERAL NOTES:**
- PAINT EXPOSED UNFINISHED METALS PER SPECIFICATIONS. COLOR TO MATCH ADJACENT SURFACE IF NOT SPECIFIED.
 - MAKE SURE TO HAVE A MINIMUM OF 6" CONCRETE UNDER HEAVY EQUIPMENT
 - KEEP ALL EXPOSED PLUMBING AND CONDUIT LINES AT LEAST 6" ABOVE F.F.
 - PROVIDE ANCHORS, BOLT AND OTHER NECESSARY FASTENERS AND BLOCKING AS REQUIRED AND ATTACH ACCESSORIES SECURELY TO WALLS AND PARTITIONS IN LOCATIONS AS SHOWN AS REQUIRED
 - PROVIDE FIRE EXTINGUISHERS AS REQUIRED BY LOCAL FIRE MARSHALL. CONTRACTOR IS REQUIRED TO CONTACT FIRE DEPARTMENT FOR FIRE EXTINGUISHER TYPE AND EXACT MOUNTING LOCATIONS.
 - ALL ELECTRICAL DEVICES SHALL BE EXPOSED SURFACE MOUNTED IN INSTALLATION BAYS. ALL DEVICES IN PUBLIC AREAS SHALL BE CONCEALED IN WALLS. PROVIDE POWER PER EQUIPMENT AND ALL ASSEMBLIES NOTED AS WELL.
 - CONVENIENCE POWER IS INDICATED ON THIS DRAWING FOR REFERENCE. PROVIDE POWER PER EQUIPMENT AND ALL ASSEMBLIES NOTED AS WELL.
 - FOLLOW ALL RECOMMENDATIONS OF THE SOILS REPORT BY ECS SOUTHWEST LLP. PROJECT #58-1830, DATED May 8, 2024
 - NOT USED.
 - ALL DIMENSIONS OF FACE OF STUDS AND FACE OF CMU BLOCKS

BRAKES PLUS
5301 CANYON CREEK DRIVE & S. 31ST STREET
TEMPLE, TX



ARCHITECT OF RECORD

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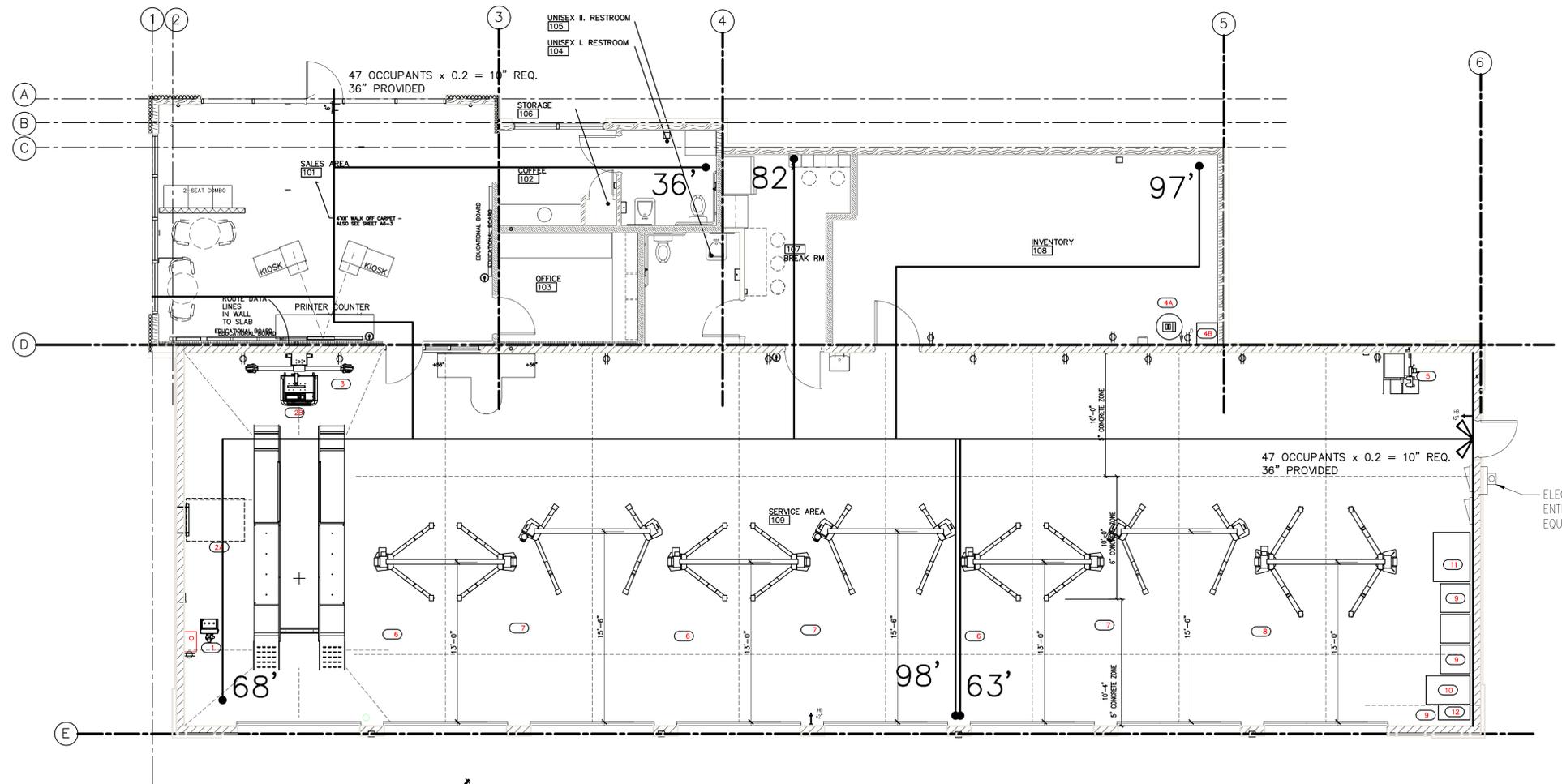
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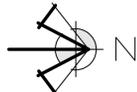
SHEET

A2-1

FLOOR PLAN



1 EGRESS PLAN
 A2-1b SCALE: 3/16" = 1'-0"



BRAKES PLUS
 SEC OF CANYON CREEK DRIVE & S. 31ST STREET
 TEMPLE, TX.



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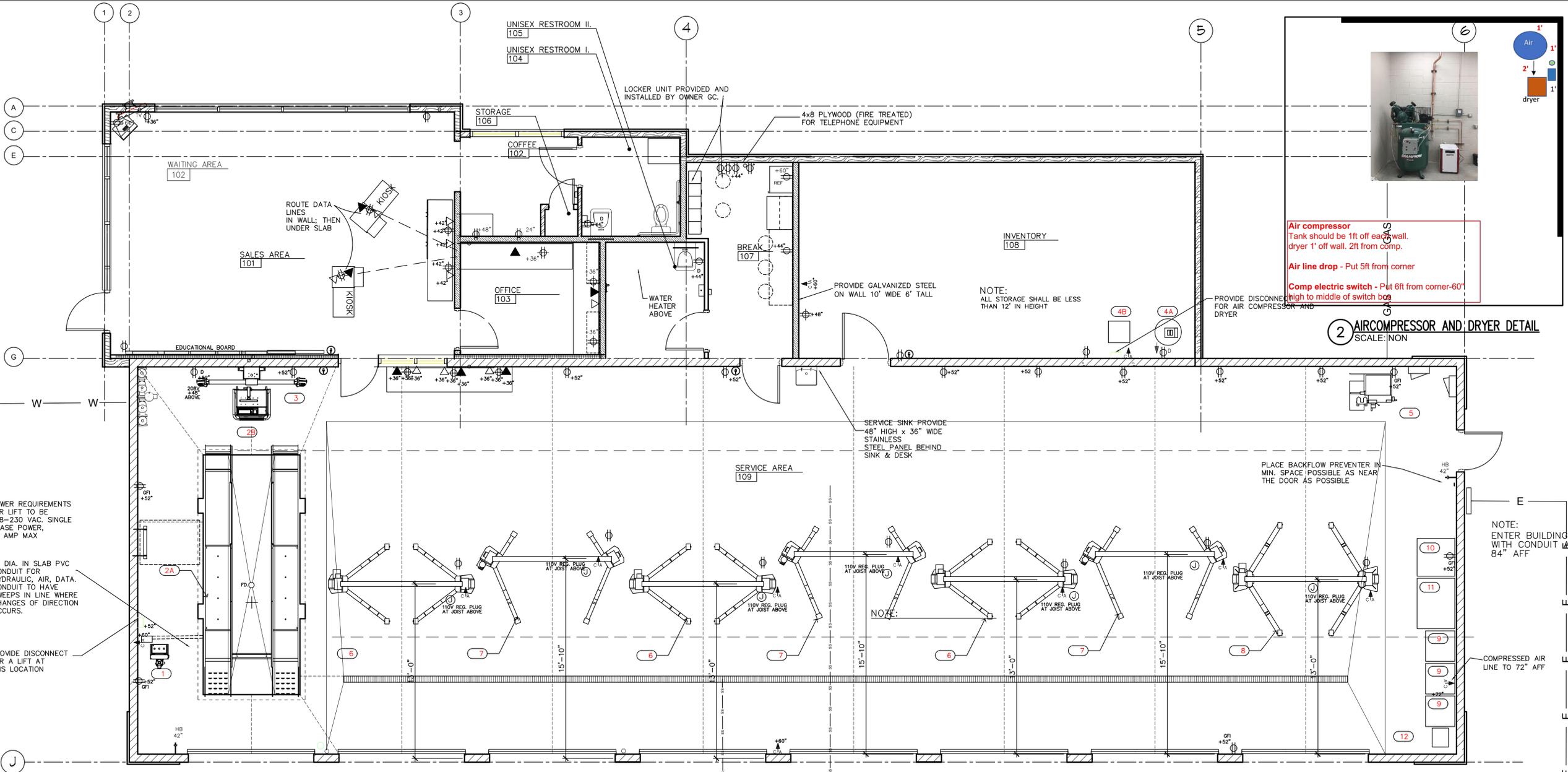
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45 SPYGLASS DRIVE
 LITTLETON, CO 80123
 VOICE: 303.981-8995
 NORM@ARCODEV.COM

SHEET
A2-1b
 EGRESS PLAN



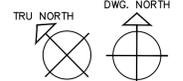
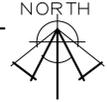
Air compressor
Tank should be 1ft off each wall,
dryer 1' off wall, 2ft from comp.

Air line drop - Put 5ft from corner

Comp electric switch - Put 6ft from corner-60"
high to middle of switch box

2 AIRCOMPRESSOR AND DRYER DETAIL
SCALE: NON

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



ID	DESCRIPTION	MANUFACTURER	MODEL NUMBER	LENGTH	DEPTH	HEIGHT	HP	VOLTAGE	AMPS	PHASE	NOTES
1	ALIGNMENT RACK - CONTROL BOX	HUNTER	RX10L4T-IS	19"	7"-4 1/2"	6"	-	208-230	26A	1	DEDICATED CIRCUIT
2	ALIGNMENT MACHINE	HUNTER	HW413	36"	2'-6"	5'-8"	-	115	15A	1	DEDICATED CIRCUIT
3	ALIGNMENT SENSORS	HUNTER	HE421	8'-9"	1'-3"	10'-3"	-	120	15A	1	DEDICATED CIRCUIT
4A	AIR COMPRESSOR - DRYER	CHAMPION	HR50-12	5'-10"	2'-4"	4'-8"	5	208	30A	3	DEDICATED CIRCUIT 30 AMP, WITH DISCONNECT
5	BRAKE LATHE	HUNTER	BL500	44 1/2"	35 1/2"	-	1.5	115	15A	1	DEDICATED CIRCUIT (115V, 15 AMP)
6	ABOVE-GROUND 10K TWIN POST LIFT	ROTARY	SP010	11'-6"	-	12'-5"	5	110	-	1	WITH SHOCKWAVE, NON-DEDICATED CIRCUIT
7	ABOVE-GROUND 10K A-TWIN POST LIFT	ROTARY	SP0A10	11'-6"	-	12'-5"	5	110	-	1	WITH SHOCKWAVE, NON-DEDICATED CIRCUIT
8	ABOVE-GROUND 12K TWIN POST LIFT	ROTARY	SP0A12KA	11'-6"	-	13'-8"	5	110	-	1	WITH SHOCKWAVE, NON-DEDICATED CIRCUIT
9	NEW OIL TANK	VALVOLINE	-	-	-	-	-	-	-	-	STACKABLE
10	USED OIL TANK	-	-	3'	4'	-	-	-	-	-	DBL WALL, UL LISTED
11	WASHER/COOLANT TANK	-	-	3'	3'	5'-1"	-	-	-	-	DBL WALL, UL LISTED
12	OIL DISPENSER	EPI6	-	-	-	-	-	-	-	-	DBL WALL, UL LISTED

Purchase by	Install by	Description	Vendor	Model	Serial #	Qty.
Brakes Plus	Brakes Plus	Security System	Security Central			1
Brakes Plus	Brakes Plus	Estimate Bldg. Signage	Logo Sign/Sign Panel Letters			1
Contractor	Contractor	Control	Control			1
Brakes Plus	Brakes Plus	Interior Signage / Sales Material	American Solutions			1
Brakes Plus	Brakes Plus	Control Panel	Control			1
Brakes Plus	Brakes Plus	First Aid Cabinet	Allegan	RA0658010		1
Brakes Plus	Brakes Plus	Owner Sign / Name Sign with Operands	Costco	28186		1
Brakes Plus	Brakes Plus	Countertop Hot/Cold Water Station	Costco			1
Contractor	Contractor	High/Low Water Counter				1
Contractor	Contractor	Amtec Front Load Drop Saw W/ Key	Englewood Lock & Sales	DSP2514K		1
Brakes Plus	Brakes Plus	RAK 10K & ATW Tires	Plus At	DN100007979		4
Brakes Plus	Brakes Plus	ATW10000 Spare Tires	Plus At	1158-10010000000		1
Brakes Plus	Brakes Plus	Tank Valves/Pressure/Support/Seals	Plus At			1
Brakes Plus	Brakes Plus	Storage Bins	Home Depot/Merchants			8
Brakes Plus	Brakes Plus	Night Drop Mail Box	Home Depot/Merchants			1
Brakes Plus	Brakes Plus	Brake Brake Lathe	BL500AB			1
Brakes Plus	Brakes Plus	Alignment Camera Tower HawkEye Elite	Hunter	HE421UL		1
Brakes Plus	Brakes Plus	Alignment Rack	Hunter	RA7015, LSE		1
Brakes Plus	Brakes Plus	Aligner Computer System - WAU13	Hunter	WAU13		1
Brakes Plus	Brakes Plus	Champion 12.5hp 12V Air Compressor 2.5hp	JAM			1
Brakes Plus	Brakes Plus	Compressor Dryer	JAM			1
Brakes Plus	Brakes Plus	Rotary 12K 2 Post Lift	JAM	SP010TASW		2
Brakes Plus	Brakes Plus	Rotary 12K 2 Post Lift	JAM	SP010TASW		1
Brakes Plus	Brakes Plus	Rotary 12K 2 Post Lift	JAM	SP0A12KA		1
Brakes Plus	Brakes Plus	Warehouse Racking Material	Lynch Material	80PC08127 (80) 748F24M		1
Brakes Plus	Brakes Plus	Block Compressor	McQuay-Norris			1
Brakes Plus	Brakes Plus	Refrigerator	Westmont			1
Brakes Plus	Brakes Plus	Microphone	Westmont			1
Brakes Plus	Brakes Plus	TV	Westmont			1
Brakes Plus	Contractor	2 Roll Toilet Paper Dispenser	Western Paper			3
Brakes Plus	Contractor	Hand Soap Dispenser	Western Paper			1
Brakes Plus	Contractor	Foam Hand Soap Dispenser	Western Paper			1
Brakes Plus	Contractor	Phone System	K-Log	SP120-088-3511V-088-431P		1
Brakes Plus	Contractor	LVT Tile Flooring & Adhesive	Bostik			1
Brakes Plus	Contractor	Interior & Exterior Light Fixtures	Nord Star Energy			1

GENERAL NOTES:

- VERIFY ALL EQUIPMENT LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
- COORDINATE INSTALLATION OF EQUIPMENT ITEMS SUPPLIED BY OWNER.
- TELEPHONE SYSTEM PROVIDED BY VENDORS. COORDINATE SCHEDULE WITH GENERAL CONTRACTOR.
- COMPRESSED AIR LINE DROPS TO 48" AFF UNLESS NOTED OTHERWISE. REFER TO PLUMBING PLAN FOR COMPRESSED AIR LINE SIZES.
- AIR LINES SHALL BE COPPER.

ELECTRICAL LEGEND:

	DUPLEX OUTLET		LIGHT SWITCH @ 54" AFF
	DEDICATED DUPLEX OUTLET		THREE-WAY LIGHT SWITCH @ 56" AFF
	AUTOCLAVE RECEPTACLE		TELEPHONE BACKBOARD W/ OUTLET
	FOUR-PLEX OUTLET		ELECTRICAL PANEL
	FLOOR OUTLET		TIME CLOCK
	TELEPHONE JACK		TELEPHONE JACK +60"
	220-VOLT OUTLET		JUNCTION BOX
	DATA JACK		THERMOSTAT
	PLUGMODE		
	AC ABOVE COUNTER		

VERIFY ELECTRICAL REQUIREMENTS WITH OWNER PRIOR TO INSTALLATION

BRAKES PLUS
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TEMPLE, TX.

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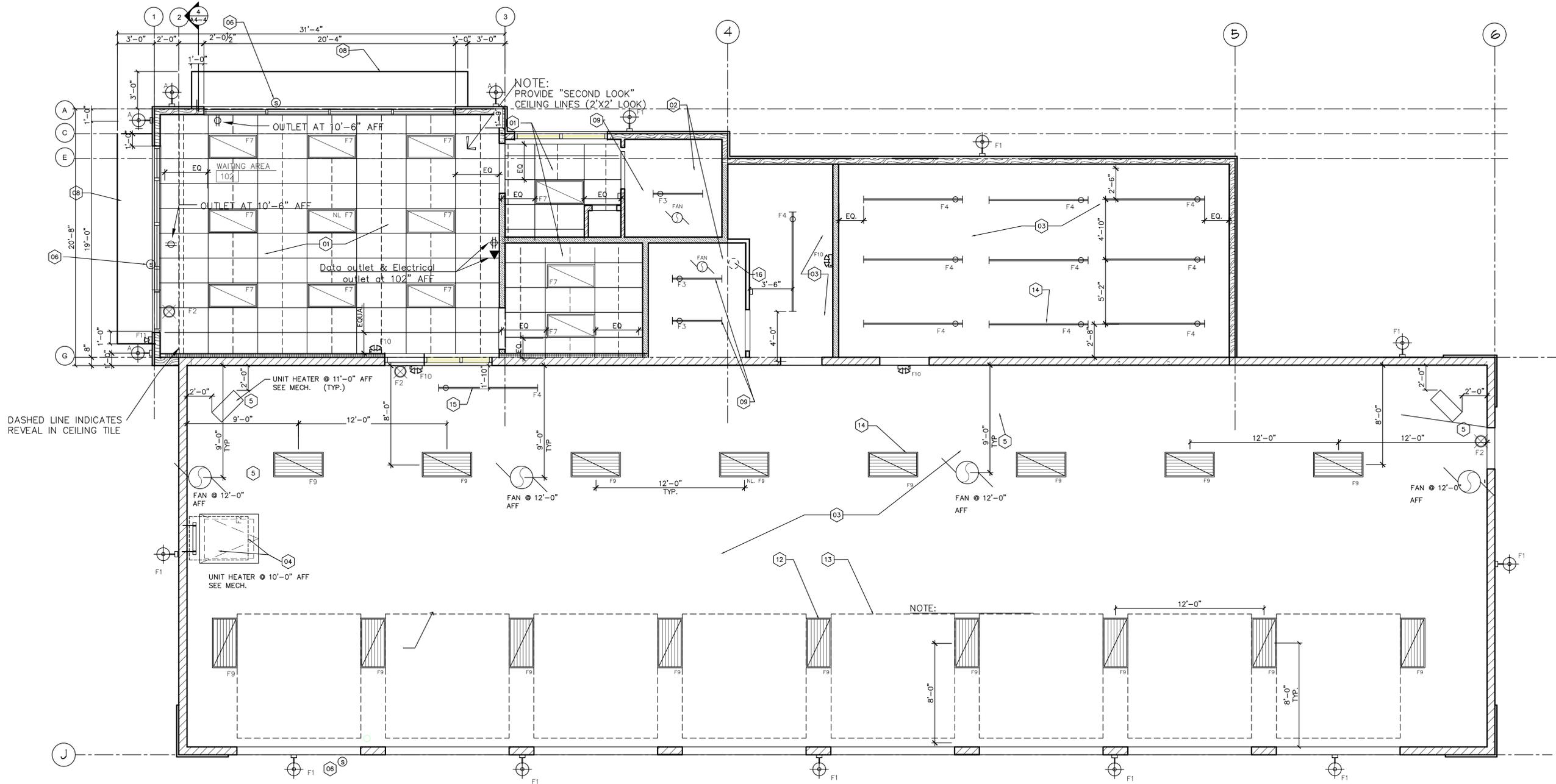
ARCOCODE

45 SPYGLASS DRIVE
LITTLETON, CO 80123
PHONE: 303.981.8925
NORMHERMAN@ARCOCODE.COM

SHEET

A2-2

EQUIPMENT PLAN



DASHED LINE INDICATES REVEAL IN CEILING TILE

NOTE: PROVIDE "SECOND LOOK" CEILING LINES (2'X2' LOOK)

NOTE:

TRU NORTH DWG. NORTH

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

CEILING PLAN KEYNOTES:

1. 2x4 ACOUSTICAL TILE CEILING GRID WITH ARMSTRONG "DUNE - FINE FISURED SECOND LOOK" CEILING TILES. RE: ROOM FINISH SCHEDULE.
2. GYP RD CEILING OVER WOOD STUD FRAMING. PAINT: RE: ROOM FINISH SCHEDULE
3. OPEN TO STRUCTURE ABOVE. PAINT: RE: ROOM FINISH SCHEDULE
4. ROOF LADDER AND HATCH ABOVE- COORDINATE EXACT LOCATION WITH ROOF FRAMING.
5. UNIT HEATER - SEE MECH. DWGS
6. JUNCTION BOX FOR EXTERIOR WALL SIGNS
7. NOT USED
8. LINE OF METAL AWNING
9. CENTER LIGHT FIXTURE IN ROOM
10. NA.
11. NA.
12. CENTER LIGHT FIXTURES BETWEEN OVERHEAD DOOR. MOUNT BOTTOM OF FIXTURE 2" BELOW BOTTOM OF OVERHEAD DOOR TRACK. TYPICAL.
13. LINE OF OVERHEAD DOOR
14. MOUNT FIXTURES TIGHT TO STRUCTURE ABOVE. TYPICAL
15. CENTER FIXTURE OVER SERVICE DESK BELOW
16. DECK MOUNTED WATER HEATER. RE: PLUMBING DRAWINGS.

LIGHT FIXTURE SCHEDULE ALL FIXTURES FURNISHED AND INSTALLED BY GENERAL CONTRACTOR									
SYMBOL	MARK	QUANTITY	DESCRIPTION	MANUF.	CAT. NO.	LAMP	MOUNTING	VOLTAGE	REMARKS
	A	4	EXTERIOR DECORATIVE LIGHT FIXTURE	COOPER LIGHTING	303-WI-LEDB2-3000-UNV-T4-DIM10	16W LED	WALL	120	REFER TO ELEVATIONS FOR MOUNTING LOCATIONS
	F1	10	EXTERIOR DECORATIVE LIGHT FIXTURE	MCGRAW EDISON	1ST-SAIF-730-U-T4FT	25W LED	WALL	120	
	F2	3	EXIT SIGN	COOPER LIGHTING	APC7 G	LED	WALL/CENTER ON DOOR	120	PROVIDE EMERGENCY BATTERY PACK (90 MINUTE MIN.)
	F3	3	4'-0" STRIP LED	COOPER LIGHTING	4SNLED LDS UNV	38W LED	UNIVERSAL	120	MOUNT AT 12'-0" AFF
	F4	11	8'-0" STRIP LED	COOPER LIGHTING	8TNSLED LDS UNV	61W LED	UNIVERSAL	120	MOUNT AT 12'-0" AFF
	F7	12	2x4 RECESSED LED TROFFER	COOPER LIGHTING	24CGT 4540C	39W LED	GRID MOUNT	120	
	F9	17	4' - LED HIGHBAY	COOPER LIGHTING	LHB 18 UNV	87W LED	HUNG FROM STRUCT.	120	
	F10	6	EMERGENCY LIGHT W/ BATTERY BACKUP	COOPER LIGHTING	SEL 25	LED	WALL MOUNTED	120	PROVIDE EMERGENCY BATTERY PACK (90 MINUTE MIN.) AND TIME DELAY RELAY
	F11	2	EMERGENCY EGRESS LIGHT - EXTERIOR	COOPER LIGHTING	AEL 246	LED	SURFACE	120	PROVIDE EMERGENCY BATTERY PACK (90 MINUTE MIN.)

BRAKES PLUS
SEC OF CANYON CREEK DRIVE & S. 31ST STREET
TEMPLE, TX.



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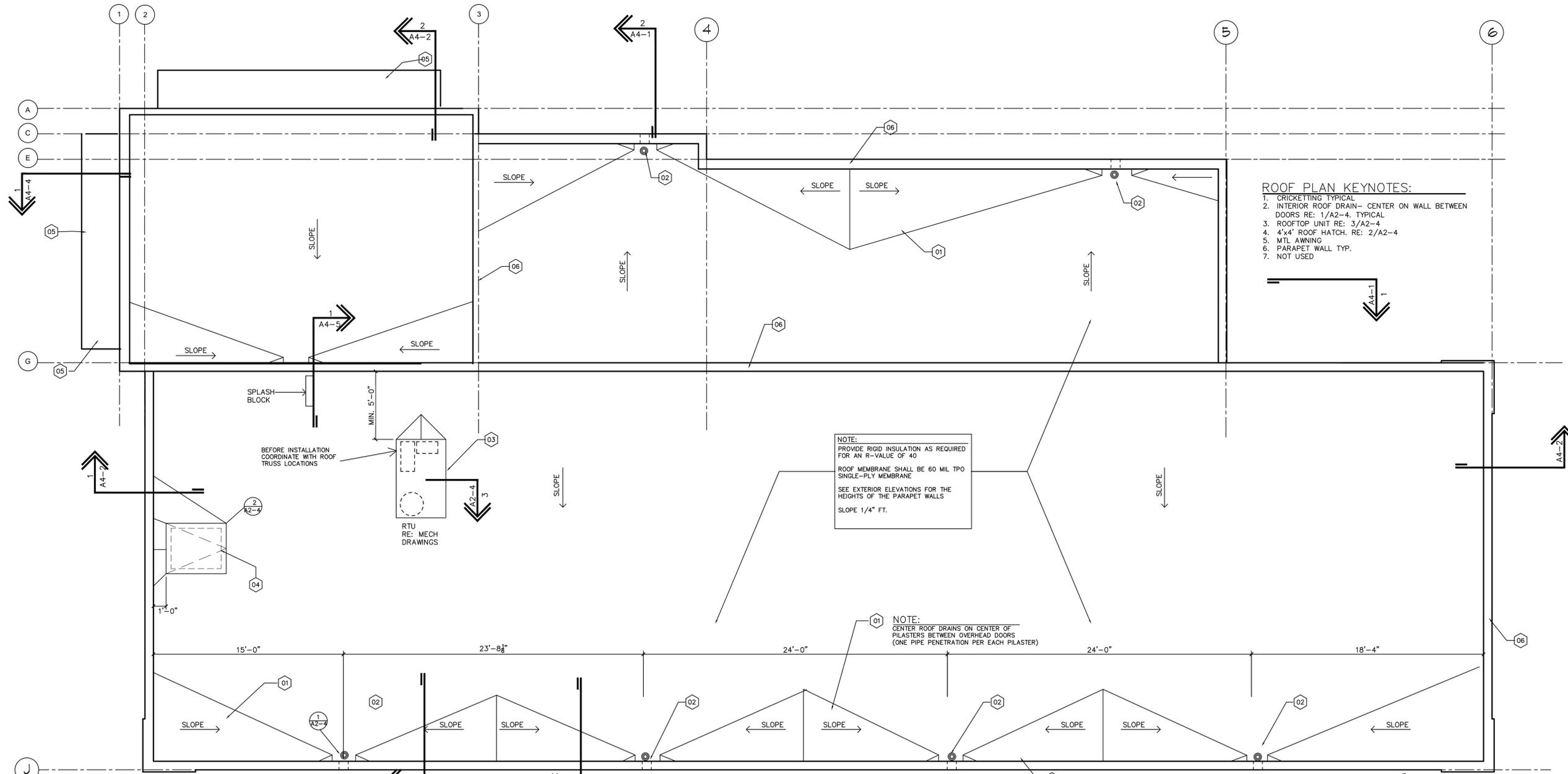
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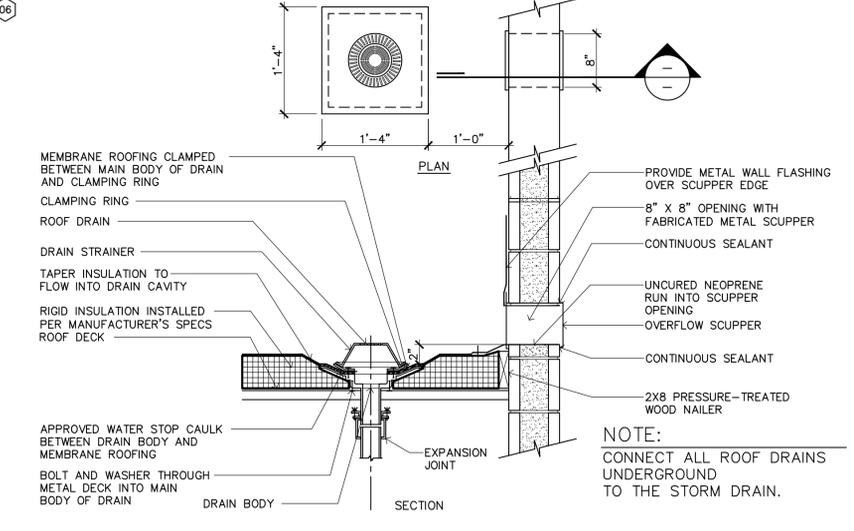
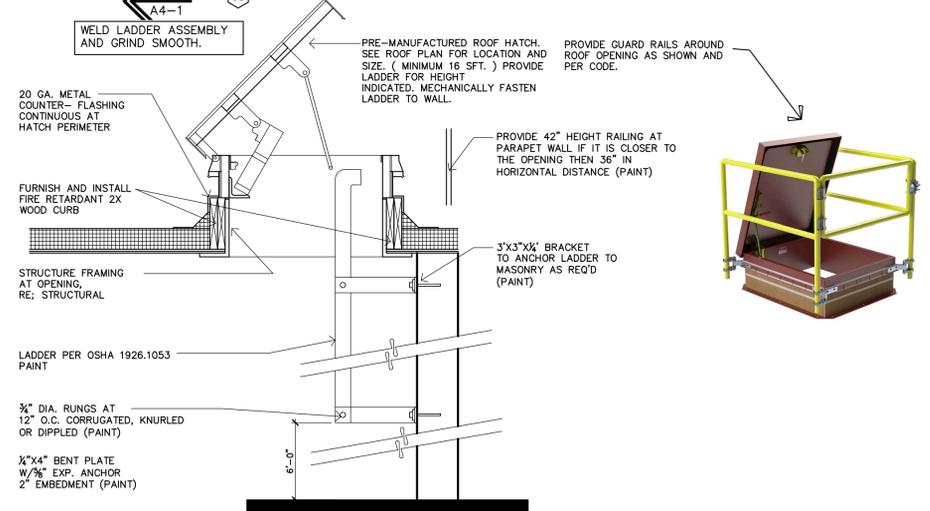
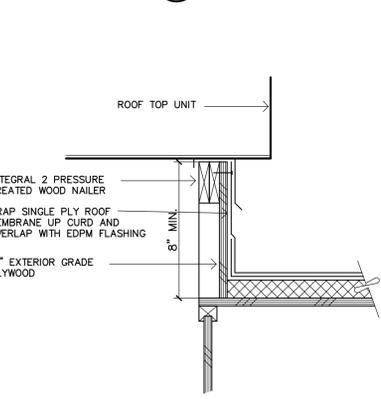
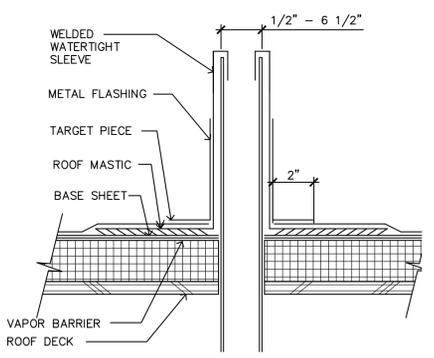
SHEET

A2-3

CEILING PLAN



5 ROOF PLAN
 SCALE: 1/4" = 1'-0"



BRAKES PLUS
 SEC OF CANYON CREEK DRIVE & S. 31ST STREET
 TEMPLE, TX



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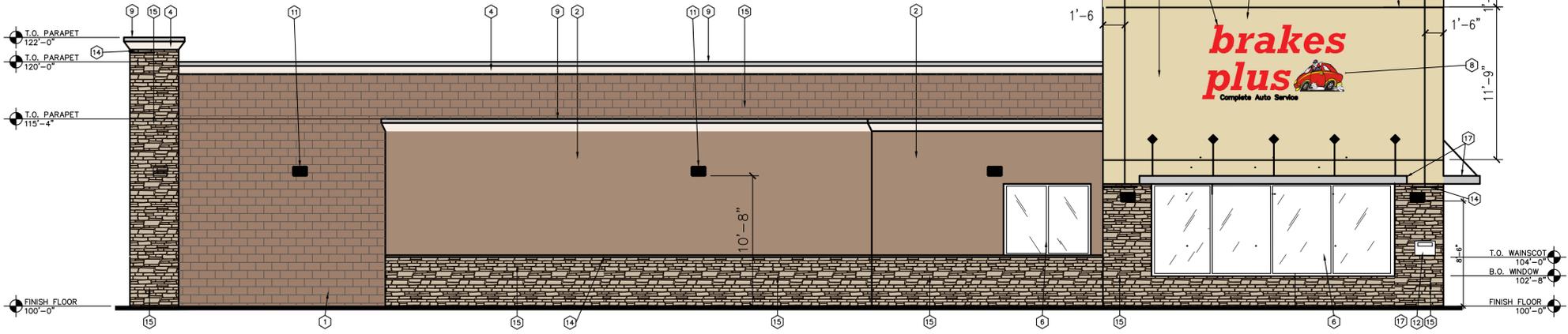
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A2-4

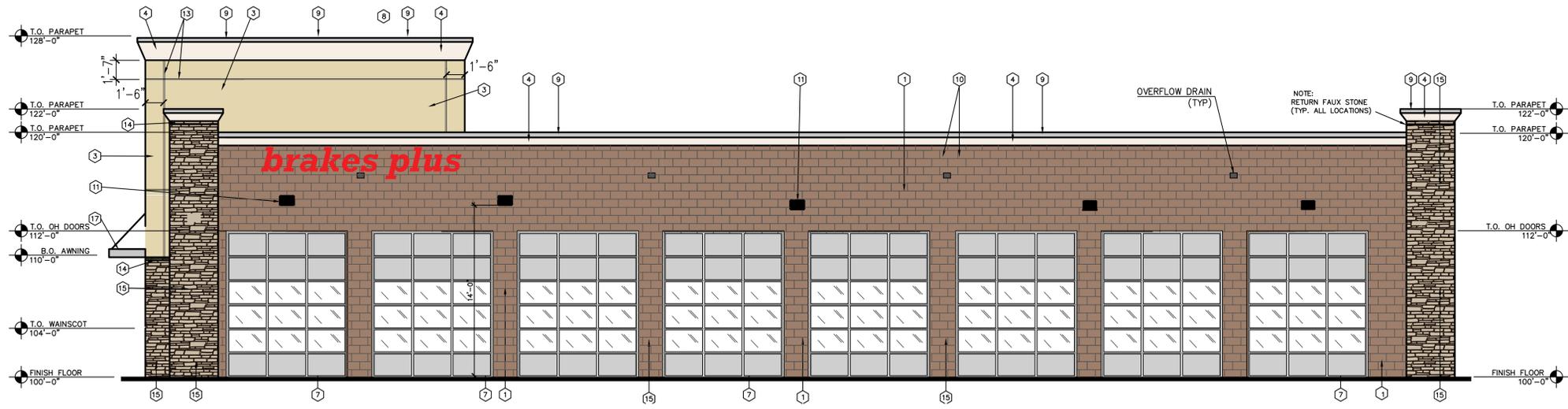
ROOF PLAN

KEYNOTES

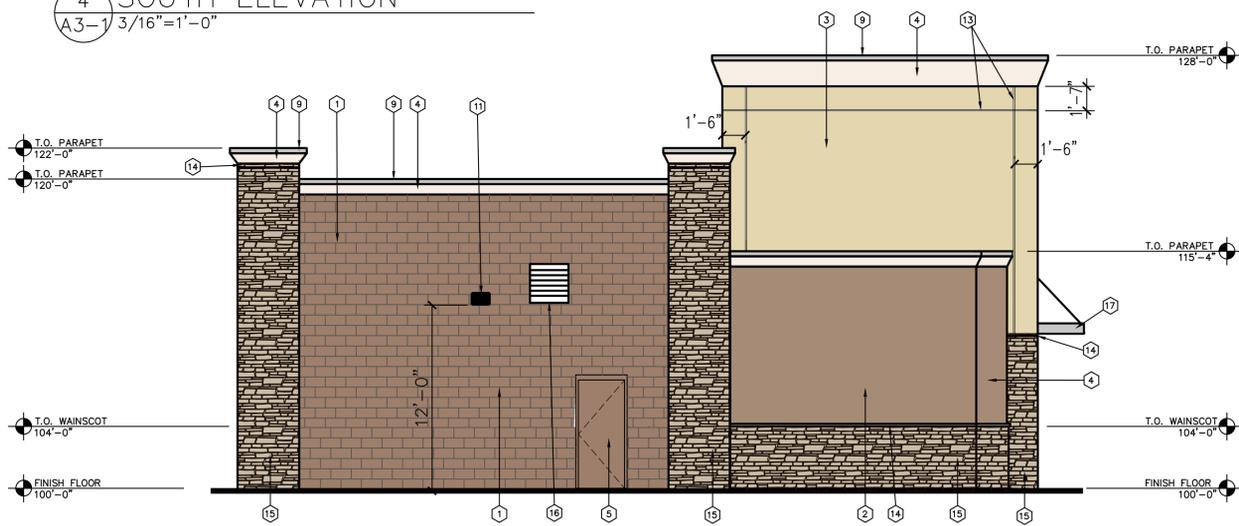
1. SMOOTH FACE CONCRETE BLOCK BY BEST BLOCK
COLOR: MEDIUM BROWN
2. EIFS - INTEGRAL COLOR TO MATCH SHERWIN WILLIAMS #2835 CRAFTSMAN BROWN
3. EIFS - INTEGRAL COLOR TO MATCH SHERWIN WILLIAMS #2834 BIRDSEYE MAPLE
4. EIFS - INTEGRAL COLOR TO MATCH SHERWIN WILLIAMS #6105 DIVINE WHITE
5. METAL. MAN DOOR. PAINT TO MATCH MASONRY
6. ALUMINUM/GLASS STOREFRONT
CLEAR ANODIZED ALUMINUM
7. ALUMINUM SECTIONAL OVERHEAD DOORS
CLEAR ANODIZED ALUMINUM
8. ILLUMINATED SIGNAGE (UNDER SEPARATE PERMIT)
9. PRE-FINISHED METAL CAP FLASHING PREFINISHED TO MATCH FINISH ANODIZED STOREFRONT FRAMING
10. NOT USED.
11. DECORATIVE LIGHT FIXTURE.
12. KEY DROP BOX
13. 1 1/2" X 3/4" REVEAL
14. WATER SILL - FAUX STONE - CULTURED STONE - WHITE OAK COUNTRY LEDGESTONE CV-20046
15. FAUX STONE - CULTURED STONE - WHITE OAK COUNTRY LEDGESTONE CV-20046
16. METAL HVAC GRILLE - PAINT TO MATCH BLOCK
17. METAL AWNING - BERRIDGE "ZINC-COTE"



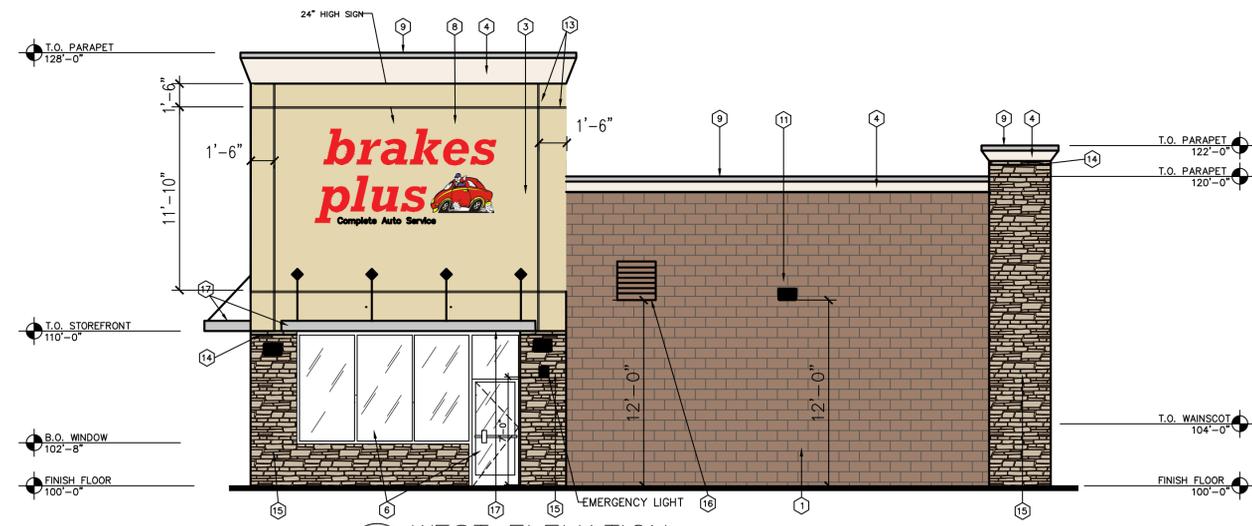
1 NORTH ELEVATION
A3-1 3/16"=1'-0"



4 SOUTH ELEVATION
A3-1 3/16"=1'-0"



2 EAST ELEVATION
A3-1 3/16"=1'-0"



3 WEST ELEVATION
A3-1 3/16"=1'-0"

BRAKES PLUS
SEC OF CANYON CREEK DRIVE & S. 31ST STREET
TEMPLE, TX.



ARCHITECT OF RECORD

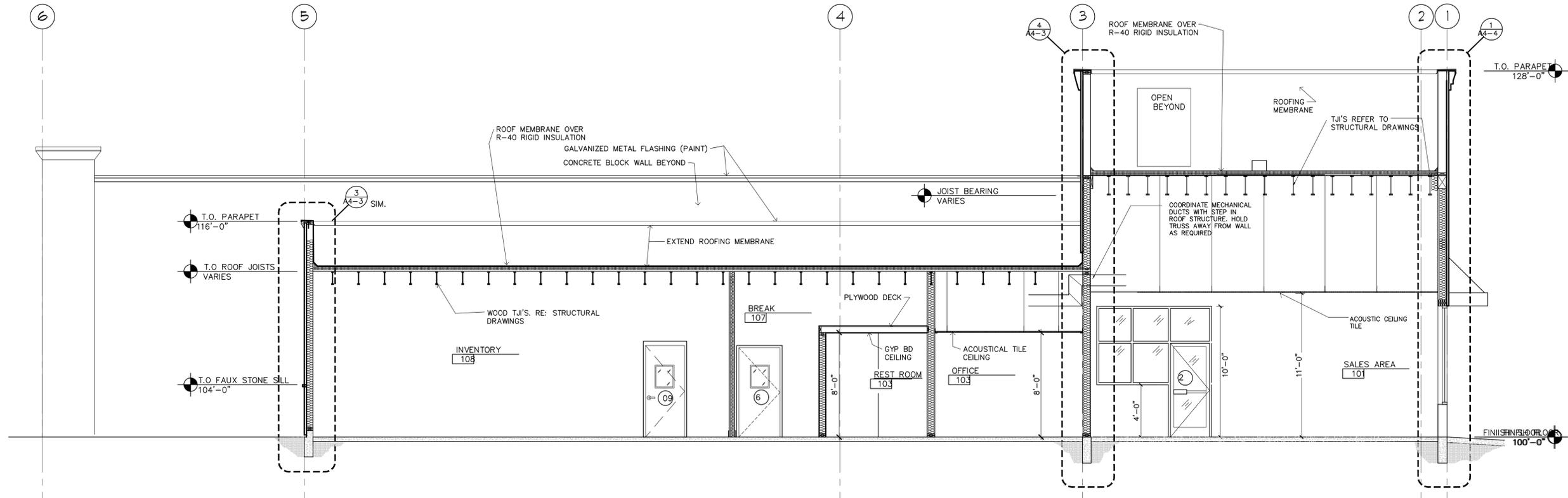
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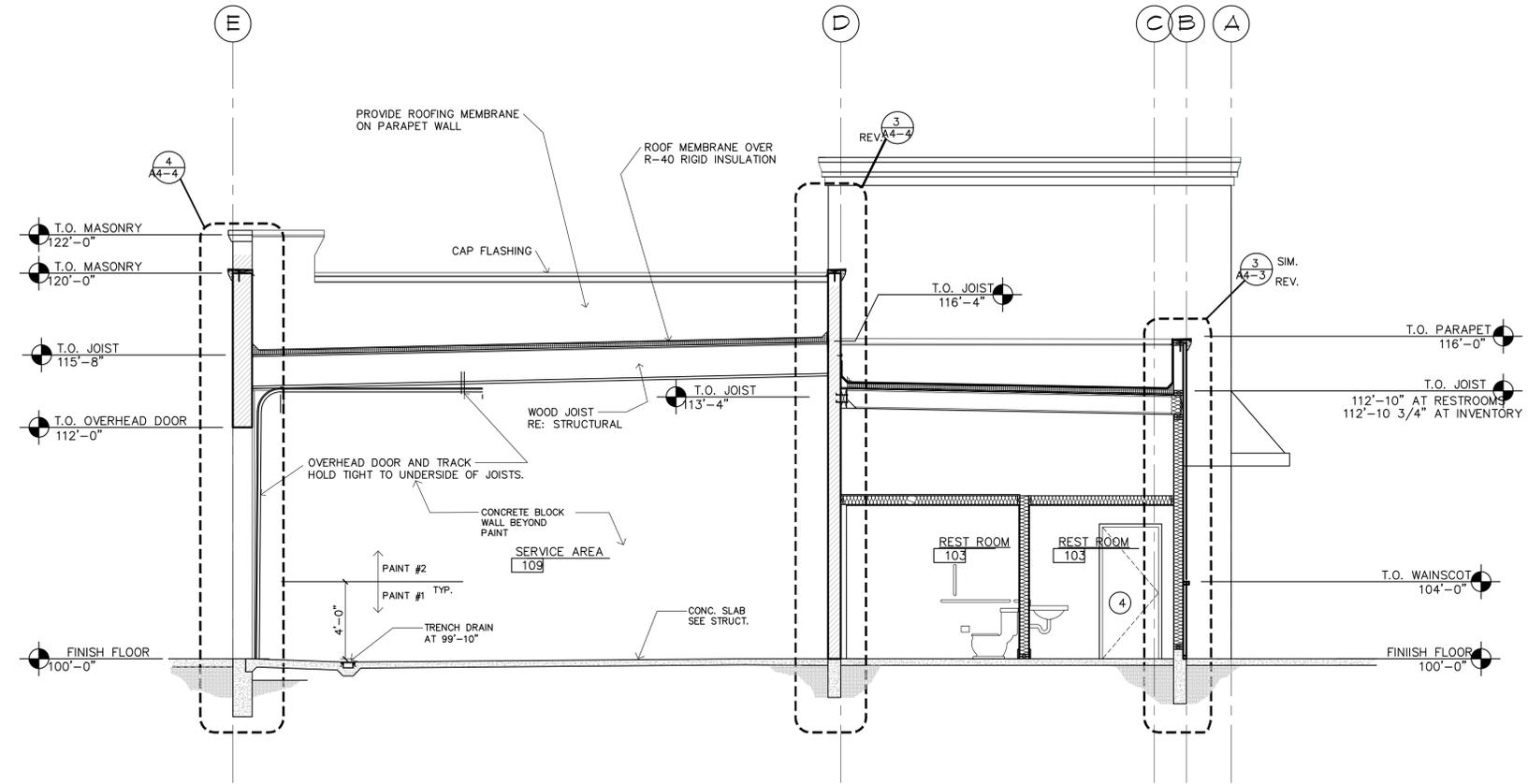


45 SPYGLASS DRIVE
LITTLETON, CO 80123
VOICE: 303.881-8925
NORMHERMAN@ARCODEV.COM

SHEET
A3-1
EXTERIOR ELEVATIONS



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



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

BRAKES PLUS
SEC OF CANYON CREEK DRIVE & S. 31ST STREET
TEMPLE, TX.



ARCHITECT OF RECORD

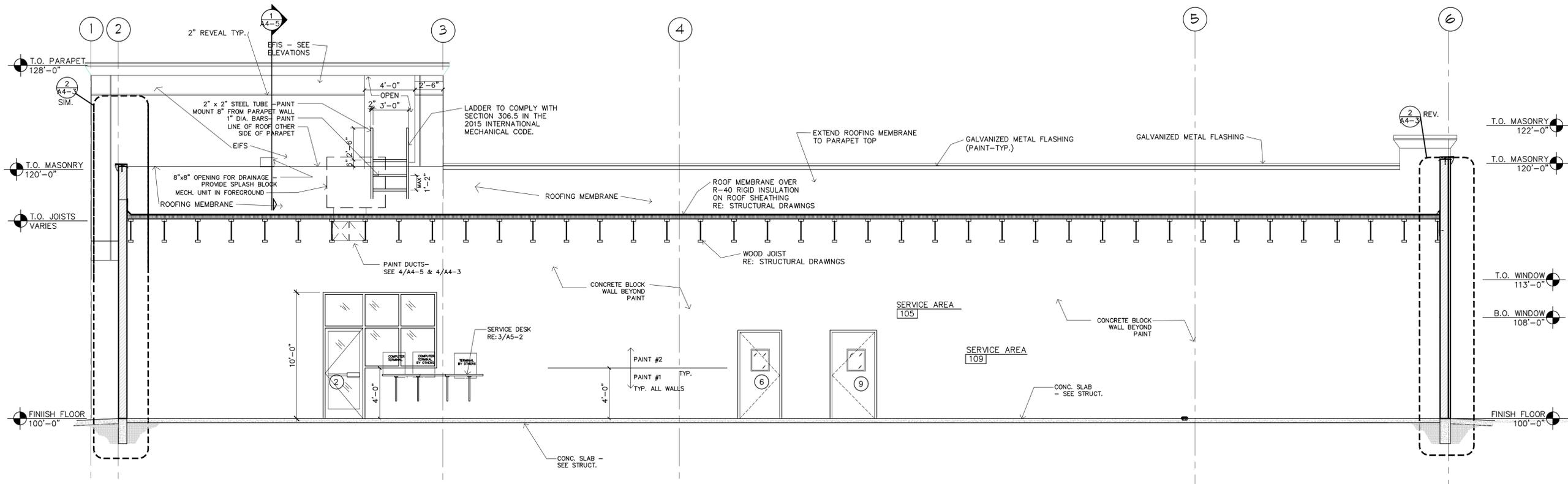
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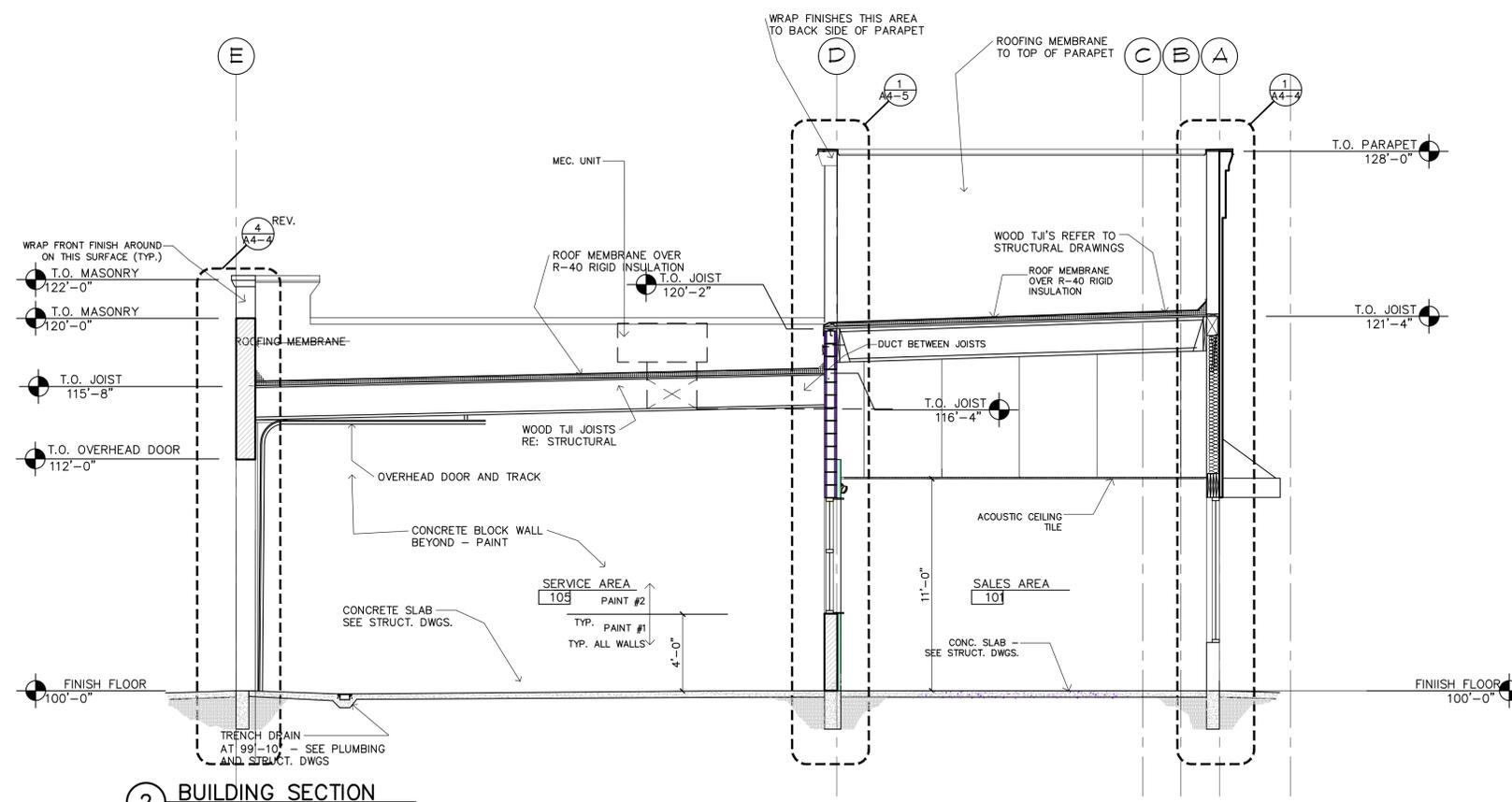


45 SPYGLASS DRIVE
LITTLETON, CO 80123
VOICE: 303.881-8925
NORMHERMAN@ARCODEV.COM

SHEET
A4-1
BUILDING SECTIONS



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



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

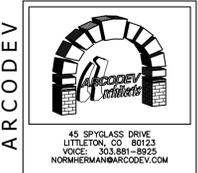
BRAKES PLUS
SEC OF CANYON CREEK DRIVE & S. 31ST STREET
TEMPLE, TX.



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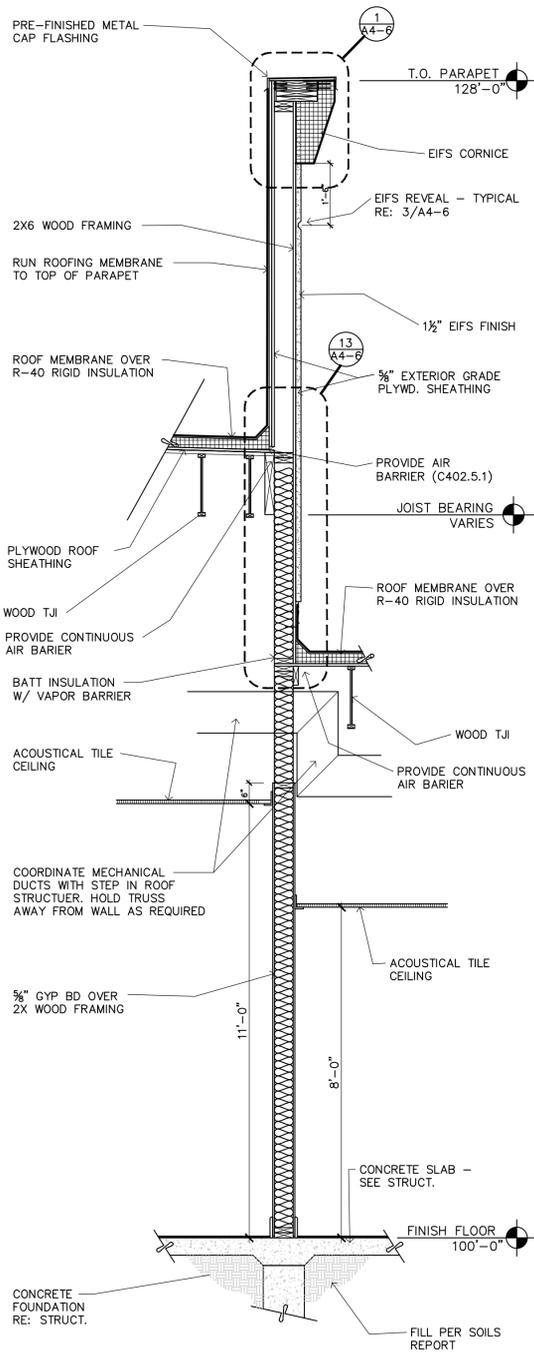
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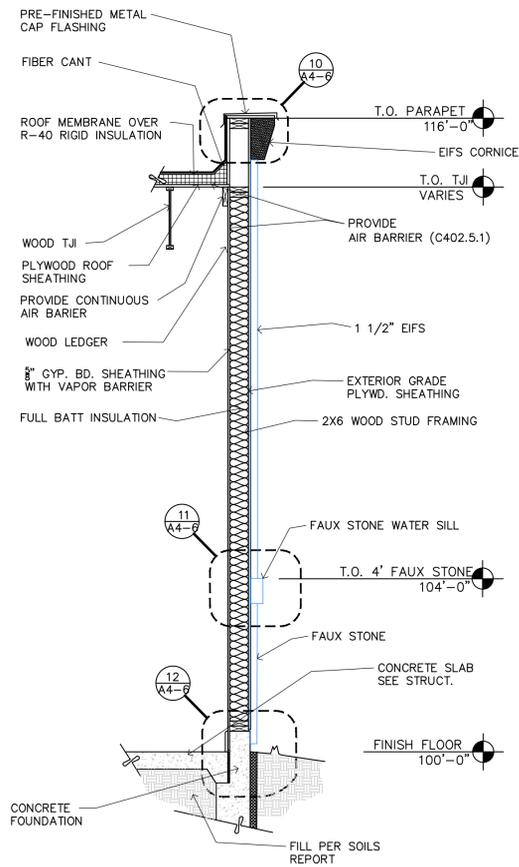


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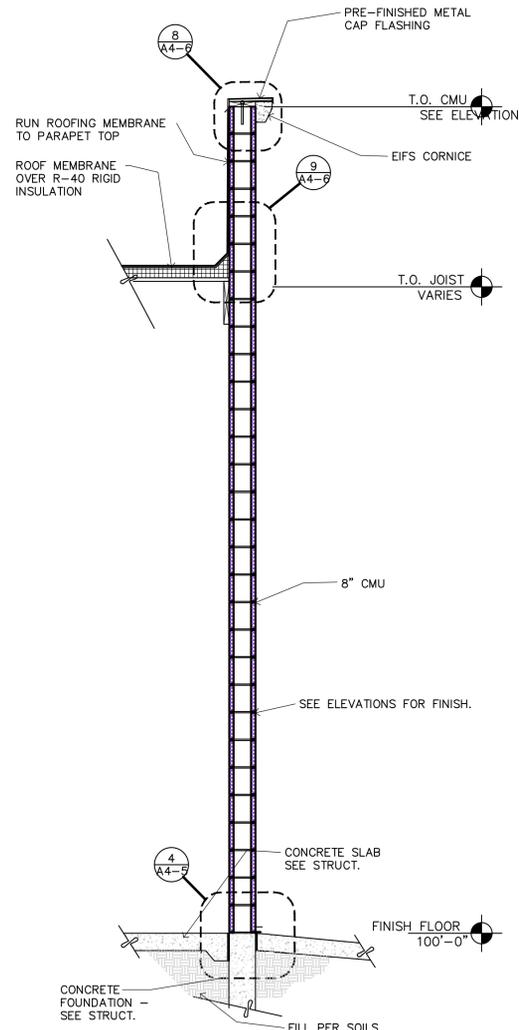
SHEET
A4-2
BUILDING SECTIONS



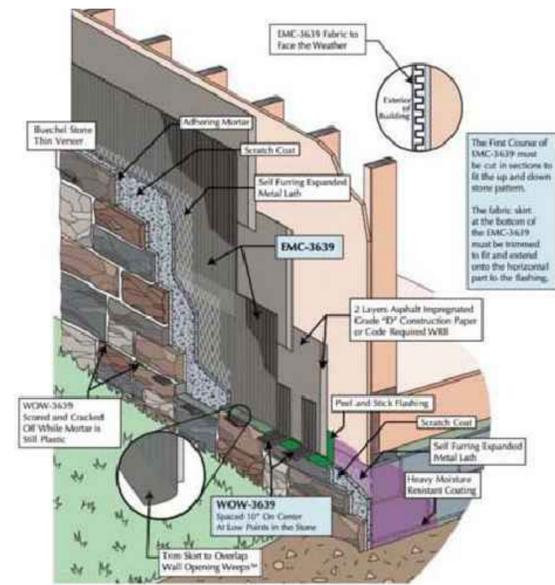
4 WALL SECTION
A4-3 1/2"=1'-0"



3 WALL SECTION
A4-3 1/2"=1'-0"



2 WALL SECTION
A4-3 1/2"=1'-0"

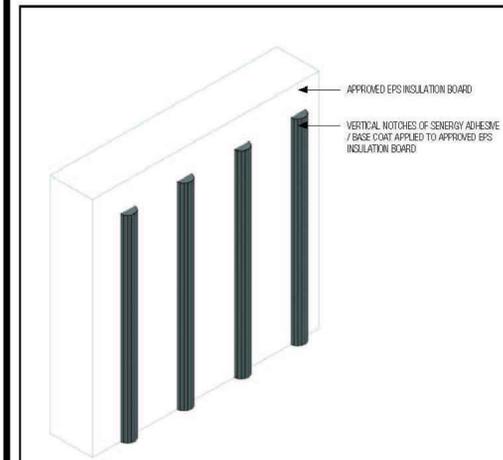


5 FAUX STONE WATER DRAINAGE DETAILS.
A4-3 NO SCALE



Channeled Adhesive CI Design

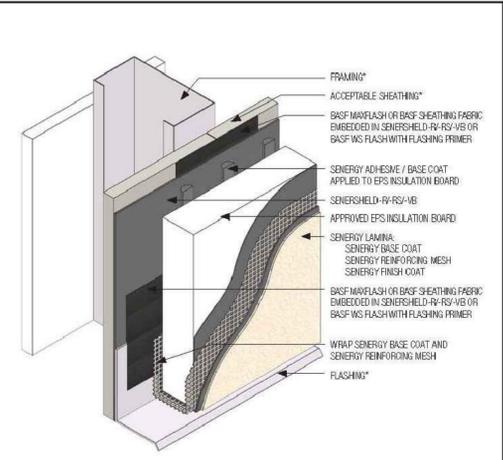
TYPICAL CHANNELED ADHESIVE



- Install BASF materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of BASF products.
- Verify all materials are installed in accordance with current installation instructions.
- Apply mixed base coat to entire surface of insulation board using a stainless steel trowel with 1/2" x 1/2" (13 mm x 13 mm) notches spaced 2" (50 mm) apart. Ribbons of adhesive must be applied parallel to the 2" (610 mm) dimension of the EPS insulation board to ensure they are vertical when the EPS insulation board is applied to the substrate.
- Set EPS insulation board into place and apply pressure over entire surface of board to ensure positive uniform contact and high initial grab. Do not slide board into place.

Channeled Adhesive CI Design

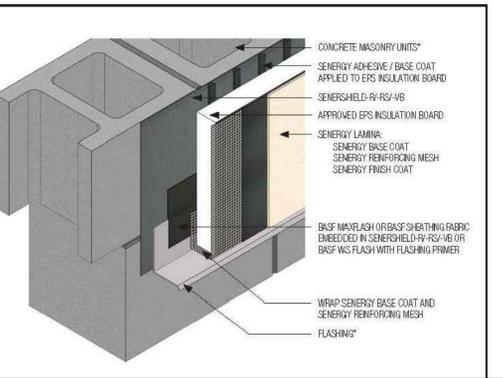
TYPICAL APPLICATION



- Install BASF materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of BASF products.
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat.
- Ensure a means for drainage is provided at system termination.

Channeled Adhesive CI Design

TYPICAL APPLICATION OVER CMU



- Install BASF materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of BASF products.
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat.
- Ensure a means for drainage is provided at system termination.

1 EIFS WATER DRAINAGE DETAILS.
A4-3 NO SCALE

BRAKES PLUS
SEC OF CANYON CREEK DRIVE & S. 31ST STREET
TEMPLE, TX



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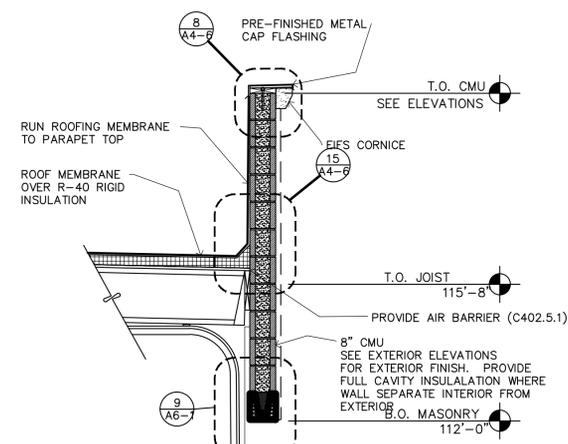


45 SPYGLASS DRIVE
LITTLETON, CO 80123
VOICE: 303.981-8925
NORRHEIMER@ARCOCODE.COM

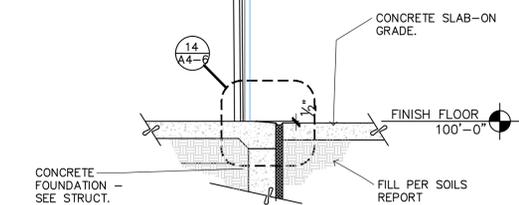
SHEET

A4-3

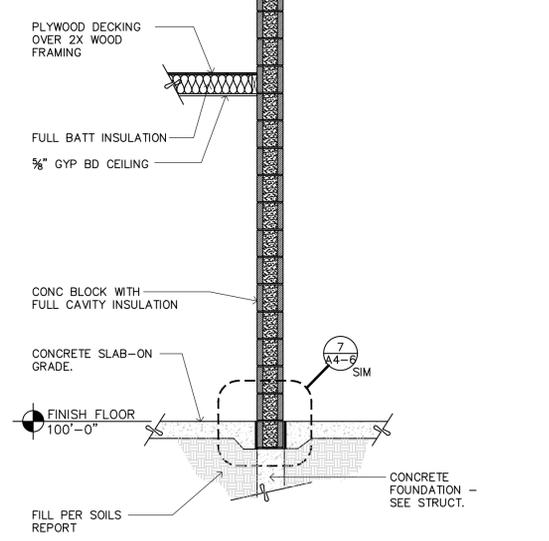
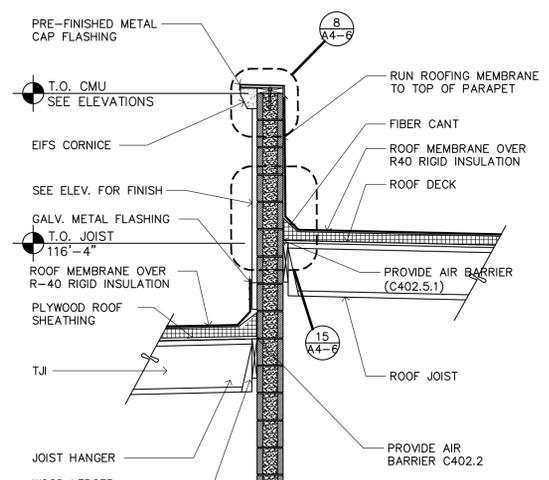
WALL SECTIONS



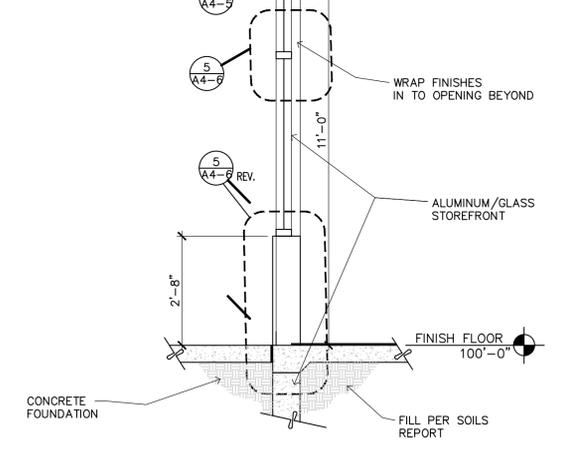
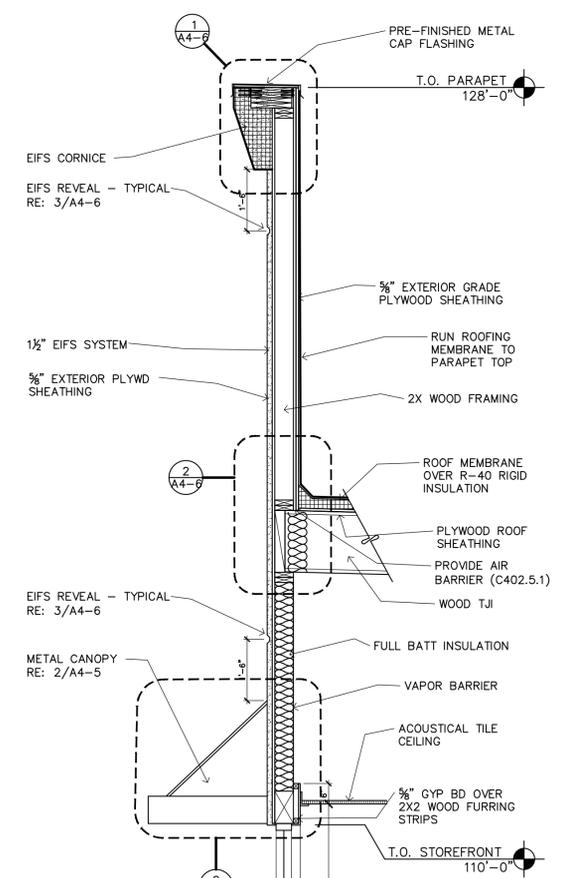
NOTE:
ALL STONE VENEER SHALL
BE GROUTED.



4 WALL SECTION
A4-4 1/2"=1'-0"



3 WALL SECTION
A4-4 1/2"=1'-0"



1 WALL SECTION
A4-4 1/2"=1'-0"

BRAKES PLUS
SEC OF CANYON CREEK DRIVE & S. 31ST STREET
TEMPLE, TX.



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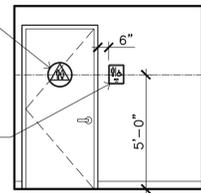
45 SPYGLASS DRIVE
LITTLETON, CO 80123
VOICE: 303.891-8925
NORMHERMAN@ARCODEV.COM

SHEET

A4-4
WALL SECTIONS

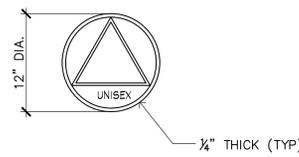
DOOR-MOUNTED SIGNAGE APPROPRIATE TO ROOM USE PER CBC 1115B.6.1, 1115B.6.2 AND 1115B.6.2

WALL MOUNTED SIGNAGE TO BE LOCATED ON LATCH SIDE OF DOOR SWING. MOUNT AT 60" TO CENTERLINE OF SIGN FROM FLOOR



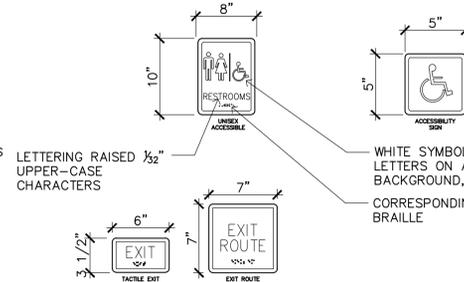
NOTES:

- ON DOORWAYS LEADING TO SANITARY FACILITIES, THE SYMBOLS TO BE PROVIDED ARE 12" EQUILATERAL TRIANGLE FOR MEN, OR 12" DIAMETER CIRCLE FOR WOMEN, 1/4" THICK CENTERED ON DOOR 60" ABOVE FLOOR, CONTRASTING COLOR WITH DOOR. PER CBC 1115B.6



NOTES:

- H.C. SIGNS PER ADA
- ALL LETTERS AND SYMBOLS SHALL BE RAISED 1/32"
- 12" DIAMETER CIRCLE, 1/4" THICK WITH THE COLOR AND CONTRAST BEING DISTINCTLY DIFFERENT FROM THE COLOR OF THE DOOR
- INTERNATIONAL SIGN OF ACCESSIBILITY, WHITE FIGURE ON BLUE (#15090 FEDERAL STANDARD 595A) BACKGROUND
- SIGN SHALL BE DISPLAYED AT 60" A.F.F., CENTERED ON THE DOOR, COLOR AND CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM COLOR AND CONTRAST OF THE DOOR TYP. FOR MEN'S AND WOMEN'S SIGNS
- EDGES OF SIGNS SHALL BE ROUNDED, CHAMFERED OR EASED AND CORNERS OF SIGNS SHALL HAVE A MINIMUM RADIUS OF 3/8"
- 12" EQUILATERAL TRIANGLE, 1/4" THICK WITH THE VERTEX POINTING UPWARD AND THE COLOR AND CONTRAST BEING DISTINCTLY DIFFERENT FROM THE COLOR OF THE DOOR
- LETTERS AND NUMERALS ON SIGNS ARE RAISED 1/32", SANS SERIF UPPERCASE CHARACTERS TO BE ACCOMPANIED BY GRADE 2 BRAILLE.
- BRAILLE DOTS ARE 1/10" ON CENTER IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS
- BRAILLE DOTS ARE RAISED A MINIMUM OF 1/40" ABOVE THE BACKGROUND
- MOUNTING HEIGHT IS 60" FROM FINISH FLOOR TO THE CENTERLINE OF THE SIGN



LETTERING RAISED 1/32" UPPERCASE CHARACTERS

WHITE SYMBOLS AND LETTERS ON A BLUE BACKGROUND, TYPICAL

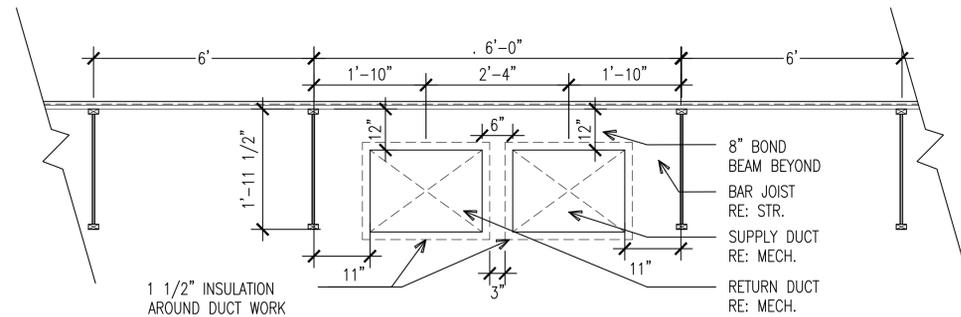
CORRESPONDING, GRADE II BRAILLE

NOTE: PROVIDE SIGNAGE AT RESTROOMS AND EXITS

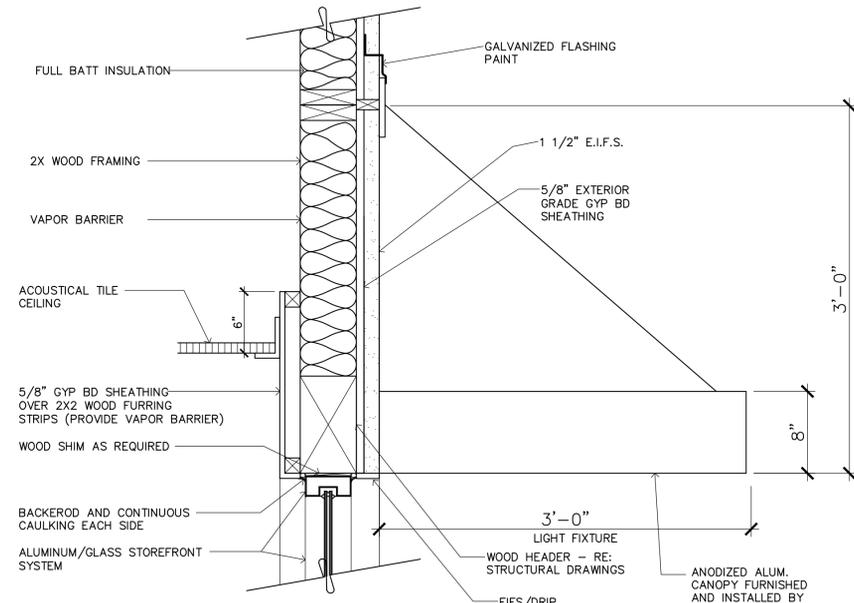
NOTES:

- CHARACTERS, SYMBOLS AND THEIR BACKGROUND SHALL HAVE A NONGLARE FINISH
- CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND
- VISUAL CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I." STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10% MINIMUM AND 20% MAXIMUM OF THE HEIGHT OF THE CHARACTER
- CHARACTERS ON SIGNS REQUIRED TO BE ACCESSIBLE SHALL BE SIZED ACCORDING TO THE "VISUAL CHARACTER HEIGHT" TABLE. THE MINIMUM HEIGHT IS MEASURED USING AN UPPERCASE LETTER "I."
- RAISED CHARACTERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY CONTRACTED (GRADE 2) BRAILLE.
- RAISED CHARACTERS SHALL BE A MINIMUM OF 3/8" AND A MAXIMUM OF 2" HIGH.
- PICTORIAL SYMBOL SIGNS (PICTOGRAMS) SHALL BE ACCOMPANIED BY THE VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE OUTSIDE DIMENSION OF THE PICTOGRAM FIELD SHALL BE A MINIMUM OF 6" IN HEIGHT.
- BRAILLE SHALL BE PLACED A MINIMUM OF 3/8" AND A MAXIMUM OF 1/2" DIRECTLY BELOW THE TACTILE CHARACTERS, FLUSH LEFT OR CENTERED.
- RAISED CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I." STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10% MINIMUM AND 20% MAXIMUM OF THE HEIGHT OF THE CHARACTER.
- CONTRACTED (GRADE 2) BRAILLE SHALL BE USED.
- MOUNTING HEIGHT SHALL BE 48" MINIMUM, MEASURED FROM THE BASELINE OF THE LOWEST LINE OF BRAILLE, AND 60" MAXIMUM, MEASURED FROM THE BASELINE OF THE HIGHEST RAISED CHARACTERS, ABOVE THE FINISH FLOOR OR GROUND SURFACE.

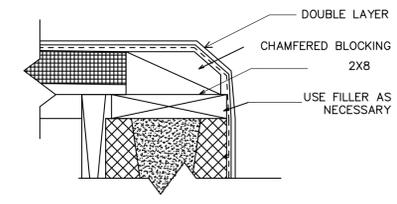
10 INTERIOR SIGNAGE INFORMATION
NO SCALE



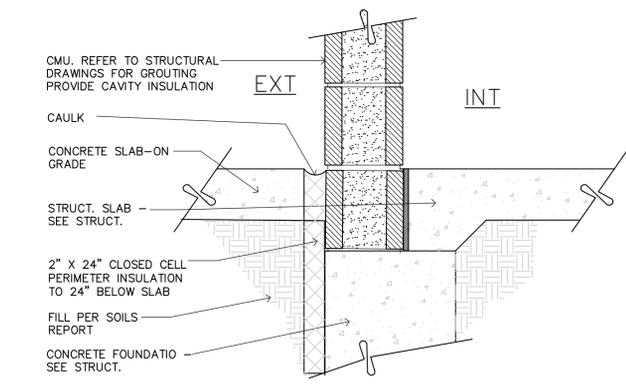
4 RTU DUCT-WORK DETAIL
SCALE: 3/4" = 1'-0"



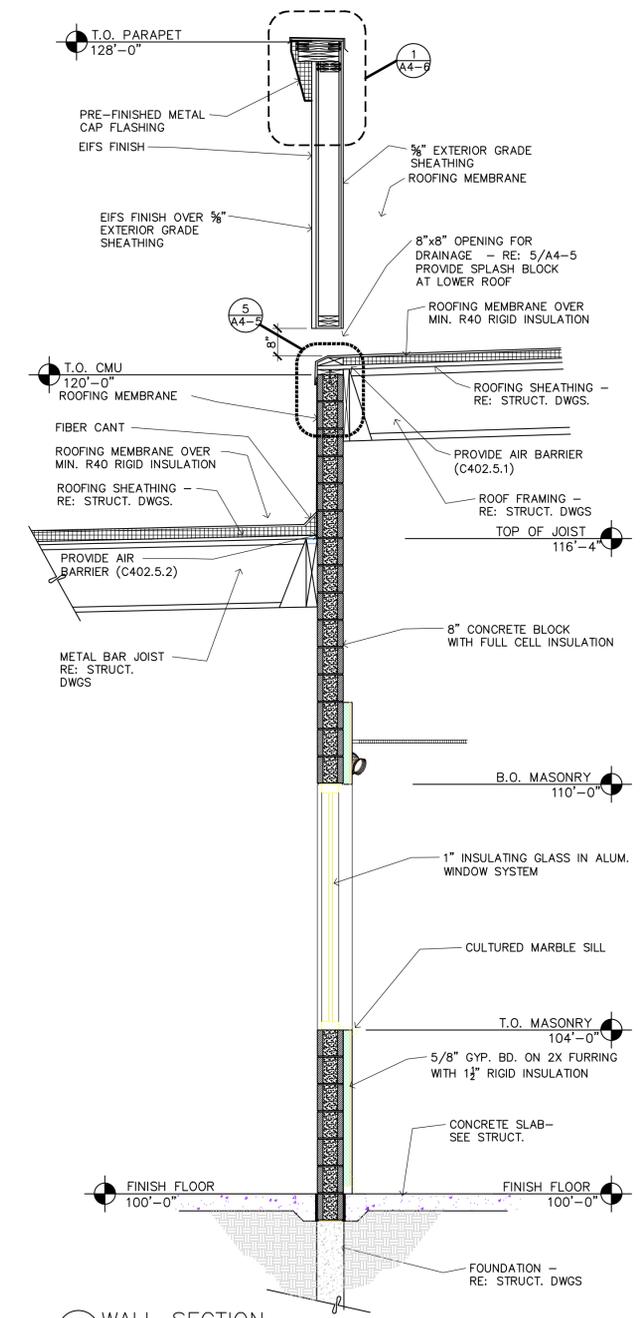
2 AWNING DETAIL
SCALE: 1 1/2" = 1'-0"



5 ROOF CORNER DETAIL
SCALE: 3" = 1'-0"



3 CMU FOUNDATION DETAIL
SCALE: 1/2" = 1'-0"



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

BRAKES PLUS
SEC OF CANYON CREEK DRIVE & S. 31ST STREET
TEMPLE, TX.



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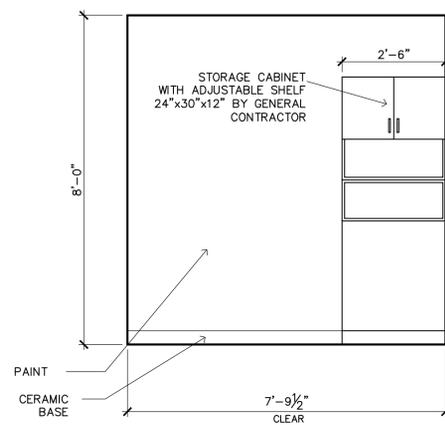
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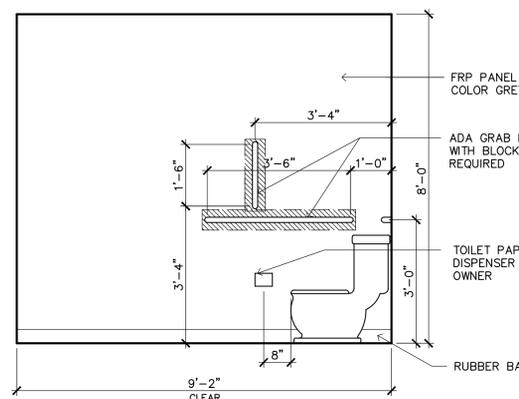
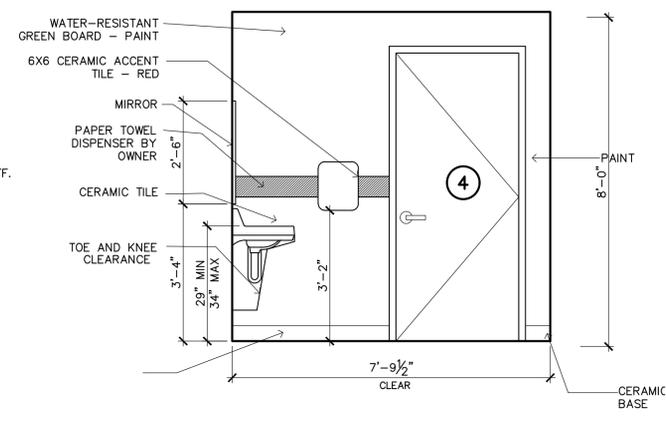
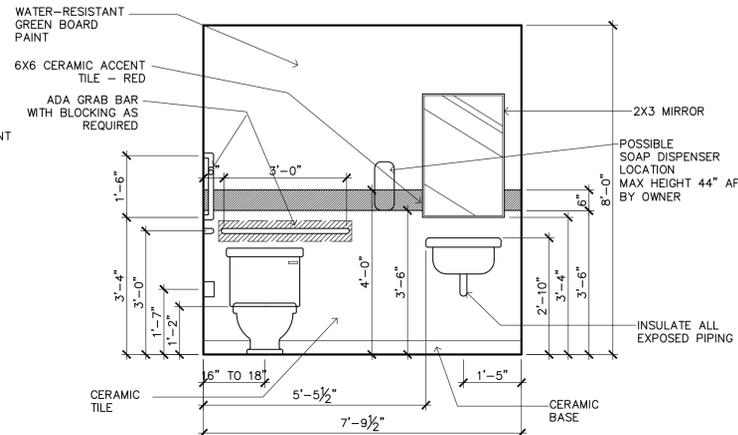
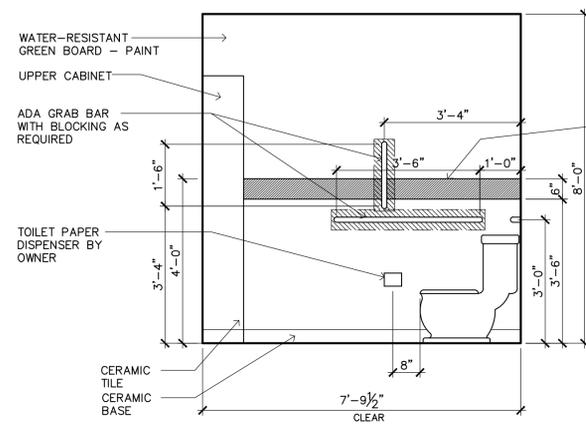
SHEET

A4-5

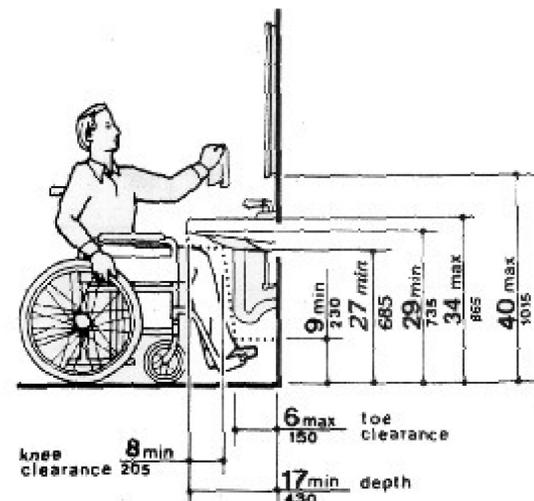
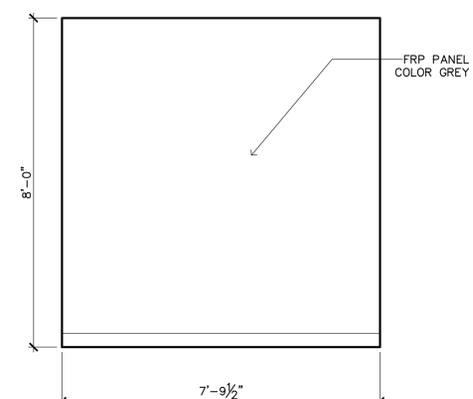
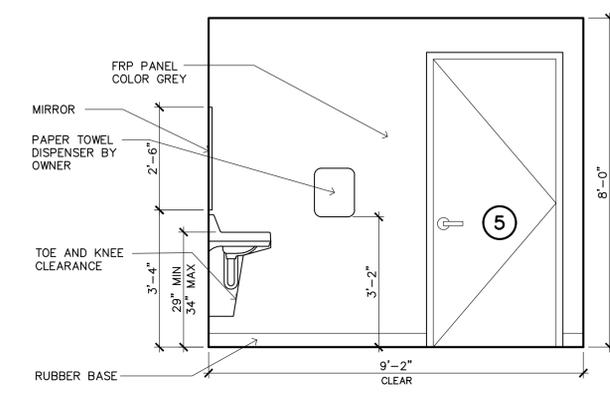
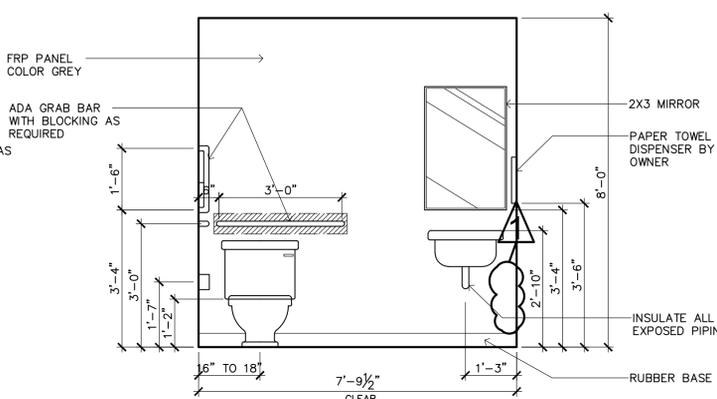
WALL SECTIONS & DET.



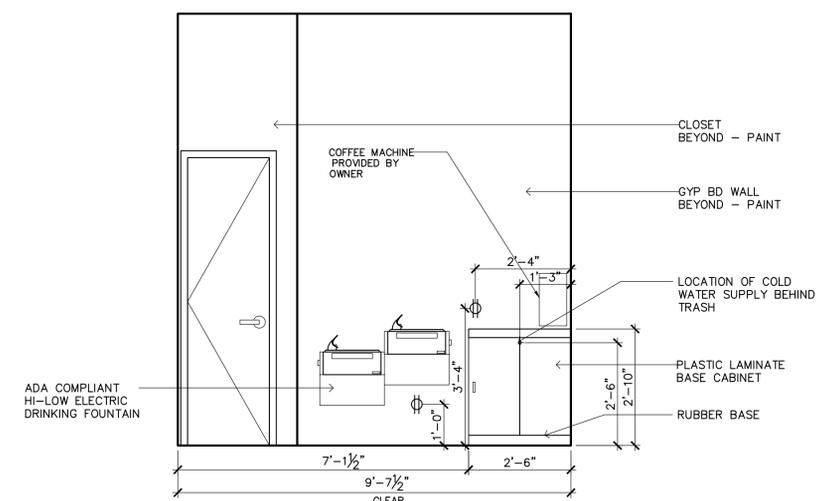
1 UNISEX RESTROOM ELEVATION
SCALE: 1/2" = 1'-0"



2 UNISEX RESTROOM ELEVATION
SCALE: 1/2" = 1'-0"



6 ADA PLACEMENT OF FIXTURES
SCALE: 1/2" = 1'-0"



5 COFFEE ROOM ELEVATION
SCALE: 1/2" = 1'-0"

BRAKES PLUS
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TEMPLE, TX



ARCHITECT OF RECORD

REVISION	DATE	COMMENTS
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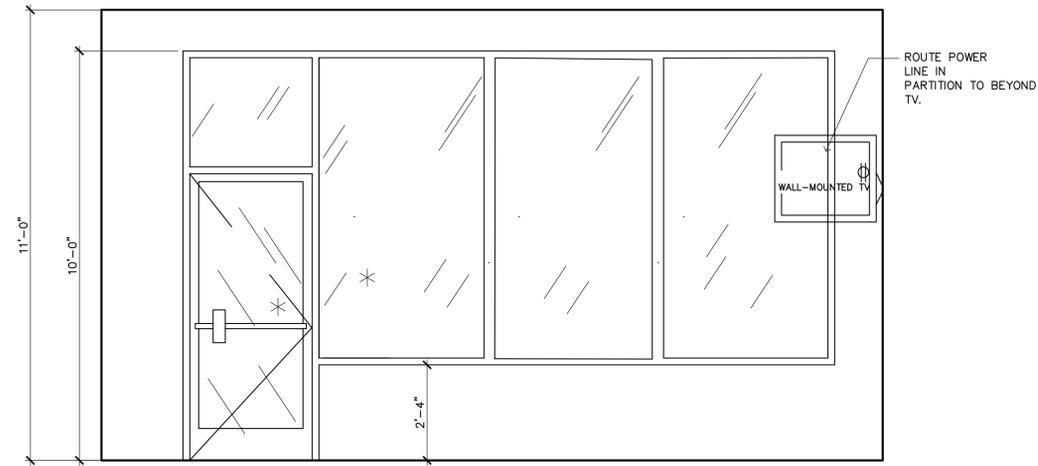
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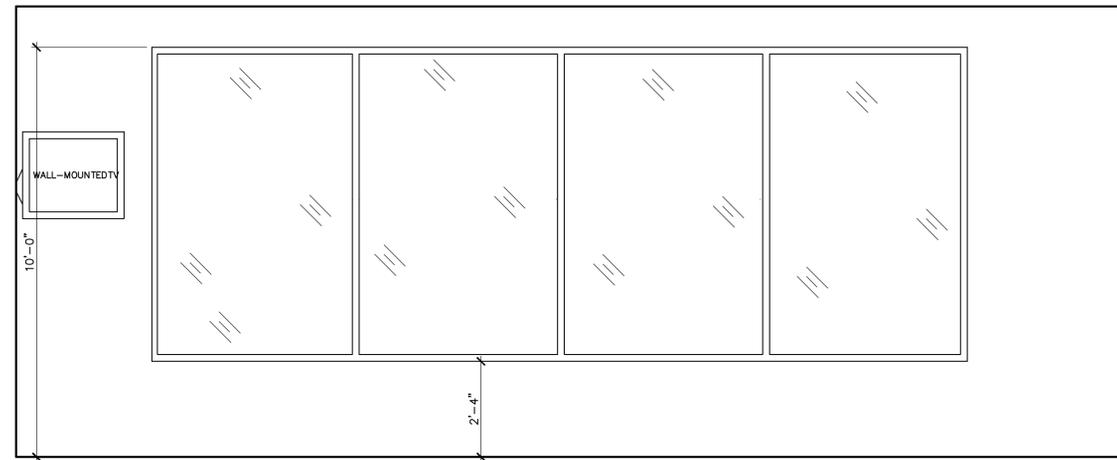
SHEET

A5-1

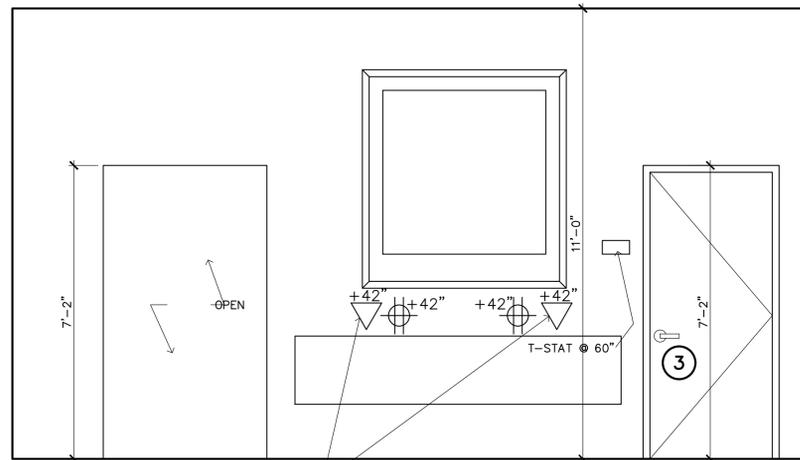
INTERIOR ELEVATIONS AND DETAILS



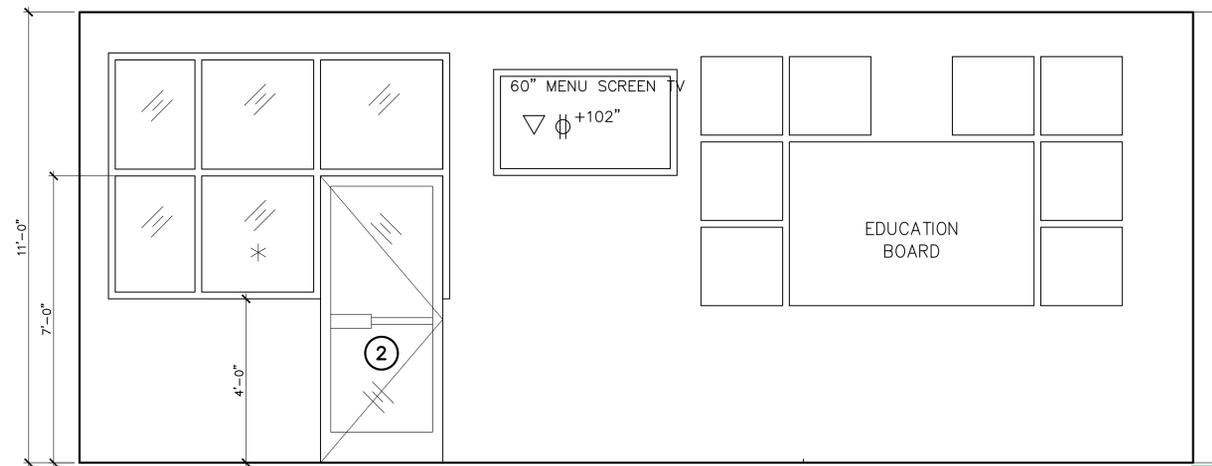
(b)



(a)

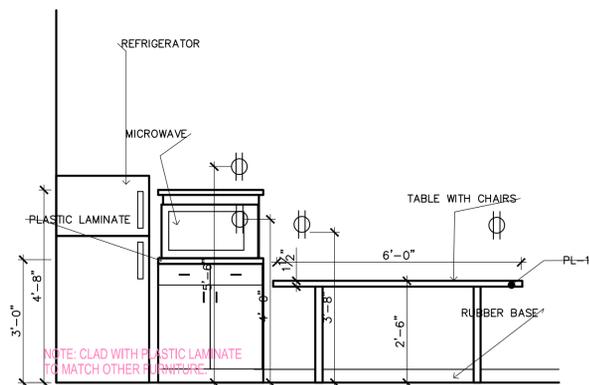


(d)

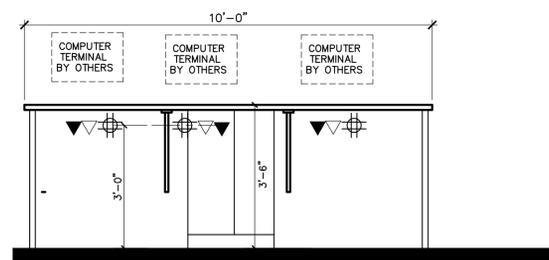


(c)

1 SALES AREA ELEVATIONS
SCALE: 1/2" = 1'-0"



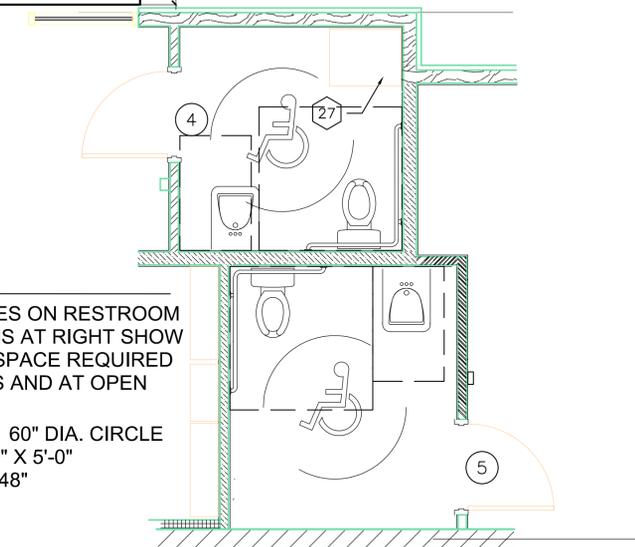
2 BREAK ROOM ELEVATION
SCALE: 1/2" = 1'-0"



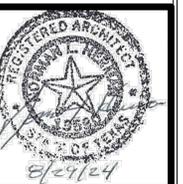
3 SERVICE DESK COMP. TERMINAL STATION
SCALE: 1/2" = 1'-0"

NOTE:

DASHED LINES ON RESTROOM FLOOR PLANS AT RIGHT SHOW THE CLEAR SPACE REQUIRED AT FIXTURES AND AT OPEN AREA:
OPEN AREA: 60" DIA. CIRCLE
TOILET: 5'-0" X 5'-0"
SINK: 30"X48"



BRAKES PLUS
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SHEET

A5-2
INTERIOR ELEVATIONS
AND DETAILS

DOOR SCHEDULE

DOOR NO.	DOOR SIZE	DOOR				FRAME		DETAILS			HDMR GROUP	FIRE RATING	REMARKS
		TYPE	MATL	FINISH	OUT	MATL	FINISH	HEAD	JAMB	SILL			
1	3'-0" X 7'-0"	C	ALUM/GL	M1	M1	ALUM.	M1	8/A6-1	7/A6-1	8/A6-1	6	-	SIGN THIS DOOR SHALL REMAIN UNLOCKED DURING BUSINESS HOURS. NO PANIC BAR REQUIRED.
2	3'-0" X 7'-0"	C	ALUM/GL	M1	M1	ALUM.	M1	8/A6-1	7/A6-1	8/A6-1	6	-	THIS DOOR CLEAR MILL FINISH TO MATCH STOREFRONT FRAMING
3	3'-0" X 7'-0"	B	H.M.	P2	P2	H.M.	P2	3/A6-1	3/A6-1	-	2	-	-
4	3'-0" X 7'-0"	B	H.M.	P2	P2	H.M.	P2	3/A6-1	3/A6-1	-	1	-	PROVIDE ACCESSIBLE RESTROOM SIGNAGE.
5	3'-0" X 7'-0"	F	H.M.	P2	P2	H.M.	P2	3/A6-1	3/A6-1	-	1	-	PROVIDE ACCESSIBLE RESTROOM SIGNAGE.
6	3'-0" X 7'-0"	E	H.M.	P2	P2	H.M.	P2	2/A6-1 SIM	4/A6-1 SIM	2/A6-1 SIM	4	-	PROVIDE 16"X30" VIEW PANEL.
7	2'-0" X 7'-0"	A	H.M.	-	-	-	-	-	-	-	-	-	1 1/2 PR. HINGES, LEVER LATCH SET.
8	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-
9	3'-8" X 7'-0"	E	H.M.	P2	P2	H.M.	P2	1/A6-1	4/A6-1	-	1	-	PROVIDE 16"X30" VIEW PANEL.
10	3'-0" X 7'-0"	B	H.M.	-	-	-	-	1,2/A6-1	4/A6-1	1,2/A6-1	3	-	INSULATED DOOR
11	10'-0" X 12'-0"	D	ALUM/GL	-	-	-	-	9/A6-1	6/A6-1	9/A6-1	-	-	PADLOCK
12	10'-0" X 12'-0"	D	ALUM/GL	-	-	-	-	9/A6-1	6/A6-1	9/A6-1	-	-	PADLOCK
13	10'-0" X 12'-0"	D	ALUM/GL	-	-	-	-	9/A6-1	6/A6-1	9/A6-1	-	-	PADLOCK
14	10'-0" X 12'-0"	D	ALUM/GL	-	-	-	-	9/A6-1	6/A6-1	9/A6-1	-	-	PADLOCK
15	10'-0" X 12'-0"	D	ALUM/GL	-	-	-	-	9/A6-1	6/A6-1	9/A6-1	-	-	PADLOCK
16	10'-0" X 12'-0"	D	ALUM/GL	-	-	-	-	9/A6-1	6/A6-1	9/A6-1	-	-	PADLOCK
17	10'-0" X 12'-0"	D	ALUM/GL	-	-	-	-	9/A6-1	6/A6-1	9/A6-1	-	-	PADLOCK
18	10'-0" X 12'-0"	D	ALUM/GL	-	-	-	-	9/A6-1	6/A6-1	9/A6-1	-	-	PADLOCK

- NOTE:
 1. THRESHOLD SHALL BE MAXIMUM 1/2" HIGH ABOVE FLOOR AND LANDING ON BOTH SIDES AT BUILDING ENTRANCES.
 2. MAXIMUM DOOR OPENING EFFORT SHALL BE 5 LBS AT EXTERIOR AND INTERIOR DOORS PER ANSI 404.2.9.
 3. ALL DOORS SHALL BE EQUIPPED WITH SINGLE-EFFORT, NON-GRASP HARDWARE CENTERED BETWEEN 34" AND 48" ABOVE THE FLOOR.

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOORS		WALLS								CEILINGS		REMARKS	
		FLOOR	BASE	EAST		WEST		NORTH		SOUTH		MATERIAL	FINISH		HEIGHT (AFF)
				MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH				
101	SALES FLOOR	LVT	RB	GB	F3	ALUM/G.B.	F3	ALUM/G.B.	F3	G.B.	F3	ACT	F1	11'-0"	-
102	COFFEE ROOM	LVT	RB	GB	F3	GB	F3	GB	F3	GB	F3	ACT	F1	10'-0"	-
103	OFFICE	LVT	RB	GB	F3	GB	F3	GB	F3	GB	F3	ACT	F1	8'-0"	-
104	UNISEX RR.	LVT	CT	G.B./CT	F4/F1	GB	G.B.	GB/CT	F4/F1	GB/CT	F4/F1	GB	F4	8'-0"	-
105	UNISEX RR.	SEALED CONCRETE	RB	FRP	F1	FRP	F1	FRP	F1	CMU	F1	GB	F4	8'-0"	-
106	STO.	LVT	RB	GB	F3	GB	F3	GB	F3	GB	F3	GB	F4	ON TRUSS	-
107	BREAK ROOM	SEALED CONCRETE	RB	GB	F3	GB	F3	G.B.	F3	CMU	F3	OPEN	P2	ON TRUSS	PROVIDE 1 COAT BLOCK FILLER AT CMU WALL
108	INVENTORY	SEALED CONCRETE	RB	GB	F3	GB	F3	GB	F3	CMU	F5	OPEN	F4	ON TRUSS	-
109	SERVICE AREA	SEALED CONCRETE	-	CMU	F5	CMU	F5	CMU	F5	CMU	F5	OPEN	F4	VARIES	-
110	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-	-	-
111	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- NOTES:
 1. PROVIDE MOISTURE-RESISTANT GYPSUM BOARD.

HARDWARE SCHEDULE

GROUP	QTY.	DESCRIPTION
1	1 EACH 1 EACH 3 EACH 1 EACH 1 EACH	FRAME - ME416 3070 X 5 3/4" HMF DOOR - 3070 X 1 3/4" H.M. HINGE - STANLEY FBB179 4.5 X 4.5 X 626 LOCKSET - SCHLAGE AL40S SAT X 626 (PRIVACY) FLOOR STOP - MM FS13 X US26D
2	1 EACH 1 EACH 3 EACH 1 EACH 1 EACH 1 EACH	FRAME - ME416 3070 X 5 3/4" HMF LH CR ASA DOOR - 3070 X 1 3/4" H.M. HINGE - STANLEY FBB179 4.5 X 4.5 X 626 LOCKSET - SCHLAGE AL53PD SAT X 626 (ENTRY) CLOSER - LCN 1461 REG/PA TBMS X ALU FLOOR STOP - MM FS13 X US26D
3	1 EACH 1 EACH 3 EACH 1 EACH 1 EACH 1 EACH 1 EACH 1 EACH 1 EACH	FRAME - ME416 3070 X 5 3/4" 4" HD HMF RH CR BJPR DOOR - 3070 X 1 3/4" HMD BLANK MOLCR HINGE - STANLEY FBB179 NRP 4.5 X 4.5 X 626 EXIT DEVICE - VON DUPRIN 22NL 3' X SP28 RIM CYLINDER - SCH 'C' X US26D CLOSER - LCN 4041 CUSH TBMS X ALU LATCHGUARD - MM MG2C THRESHOLD - PEMKO 179AV X 36" SWEEP - PEMKO 18137P X 36" SMOKE SEAL - PEMKO S88C 17"
4	1 EACH 1 EACH 3 EACH 1 EACH 1 EACH	FRAME - ME416 3070 X 5 3/4" HMF LH CR ASA DOOR - 3070 X 1 3/4" H.M. HINGE - STANLEY FBB179 4.5 X 4.5 X 626 LOCKSET - SCHLAGE AL53PD SAT X 626 (ENTRY) CLOSER STOP - MM FS13 X US26D
5	1 EACH 1 EACH 3 EACH 1 EACH 1 EACH	FRAME - ME416 3070 X 5 3/4" HMF DOOR - 3070 X 1 3/4" H.M. HINGE - STANLEY FBB179 4.5 X 4.5 X 626 LOCKSET - SCHLAGE AL10S SAT X 626 (PASSAGE) FLOOR STOP - MM FS13 X US26D
6	2 EACH 1 EACH 1 EACH 1 EACH 1 EACH 1 EACH 1 EACH	HINGE - KAWNEER OFFSET PIVOT CLOSER - LCN 4041 CUSH TBMS X ALU PUSH/PULL - KAWNEER, STYLE F-2 DEADLOCK - KAWNEER ADAMS RITE MS-1850A-505 W/ STANDARD LOCK CYLINDERS WITH HEAD & SILL BOLTS EXIT INDICATOR - KAWNEER ADAMS RITE 4089 THRESHOLD SWEEP WEATHERSTRIPPING NOTE: HEAD AND SILL BOLTS MUST BE OPERATED BY THE DEAD BOLT MECHANISM

* ALL DOOR HARDWARE SHALL BE LEVER TYPE

FINISHES

DOOR AND FRAME MATERIAL

- SCW SOLID CORE WOOD
- HM HOLLOW METAL
- ALUM ALUMINUM
- STL STEEL

DOOR AND FRAME FINISHES

- P1 NOT USED
- P2 PRIMED AND PAINTED
- P3 FACTORY PRIMED, STANDARD WHITE/LIGHT GRAY
- M1 CLEAR ANODIZED ALUMINUM, MILL FINISH

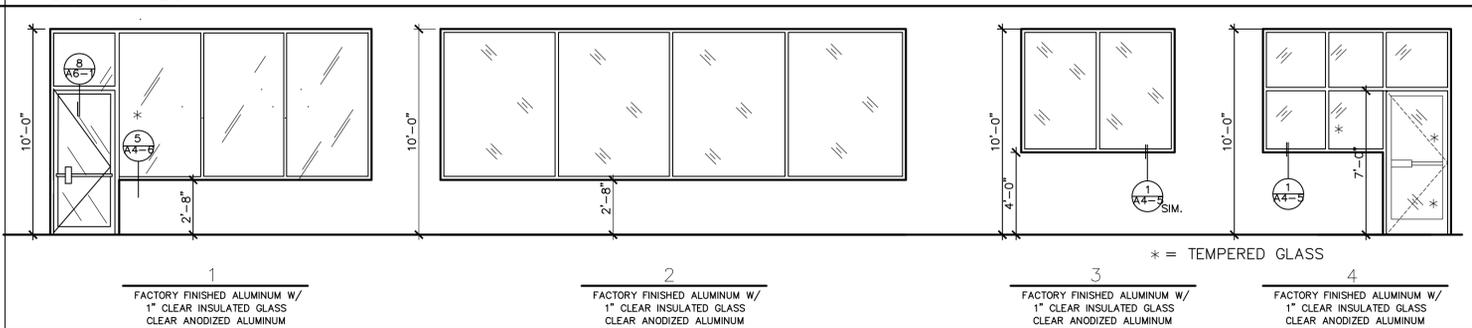
FINISH MATERIALS

- ACT ACOUSTICAL CEILING TILES
- CT CERAMIC TILE
- CMU CONCRETE MASONRY UNIT
- RB RUBBER BASE
- GB GYPSUM BOARD
- FRP FIBERGLASS REINFORCED PLASTIC
- CPT CARPET

FINISHES

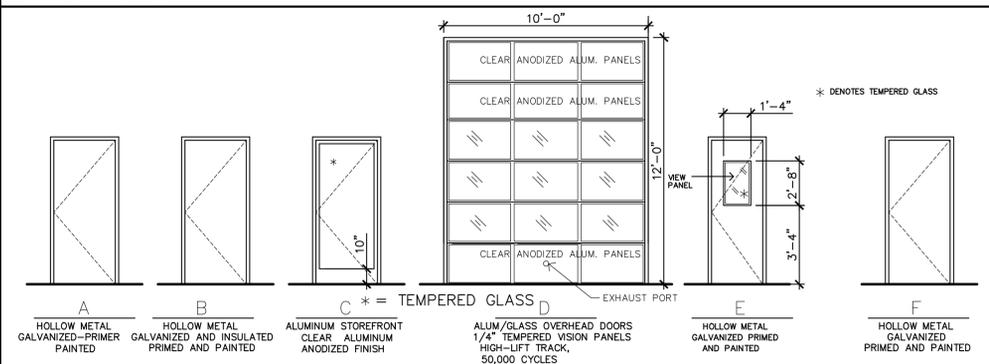
- F1 NONE
- F2 HARDENER AND SEALER
- F3 2 COATS ENAMEL
- F4 2 COATS ENAMEL
- F5 1 COAT BLOCK FILLER - 2 COAT HIGH GLOSS ENAMEL TO 4'-0" AFF - 1 COATS HIGH GLOSS ENAMEL ABOVE 4'-0" AFF
- F6 2 COATS SEMI-GLOSS ENAMEL

WINDOW TYPES * = TEMPERED GLAZING



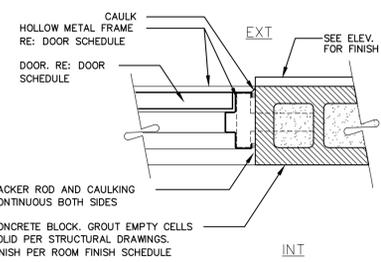
50,000 CYCLES

DOOR TYPES = TEMPERED GLAZING

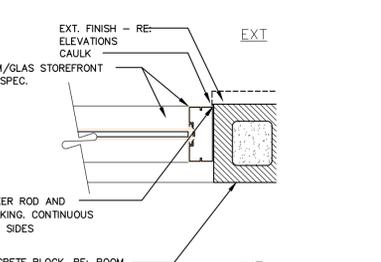


NOTE:
 DOOR HANDLES, PULLS, LATCHES, AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE BY CHAPTER 11 SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.

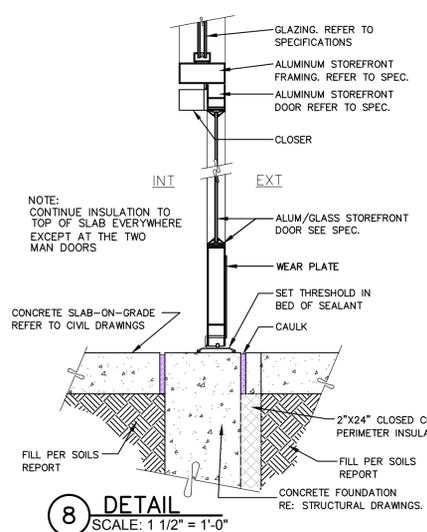
NOTE:
 EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT



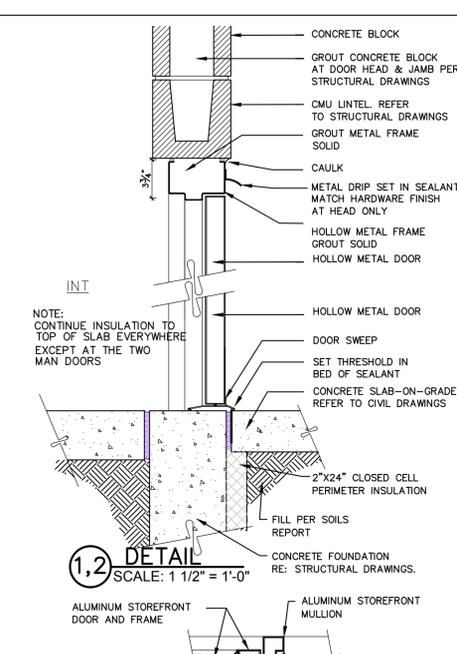
4 DETAIL SCALE: 1 1/2" = 1'-0"



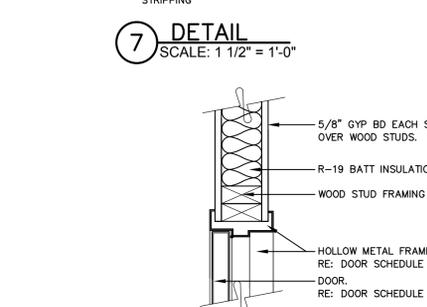
5 DETAIL SCALE: 1 1/2" = 1'-0"



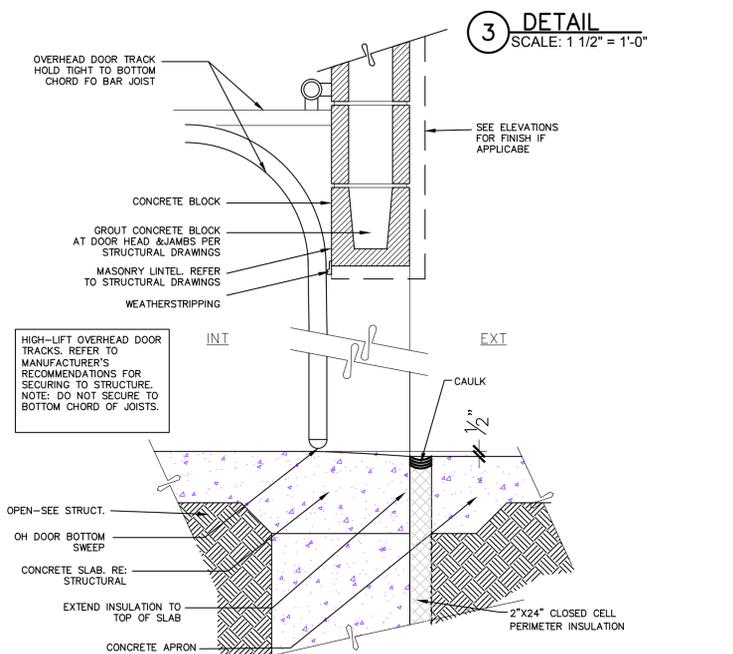
8 DETAIL SCALE: 1 1/2" = 1'-0"



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



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



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

BRAKES PLUS
 SEC OF CANYON CREEK DRIVE & S. 31ST STREET
 TEMPLE, TX



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SHEET
A6-1
 SCHEDULES

RESTROOM WAINSCOT FINISHES	
MAIN COLOR	TWO TOP ROWS
DALTILE (SEMI-GLOSS)	DALTILE (SEMI-GLOSS)
PRICE GROUP 2	PRICE GROUP 3
#0132	#DM-1
URBAN PUTTY #0161	CURRENT
SEMI-GLOSS	SEMI-GLOSS
4 1/4" X 4 1/4"	4 1/4" X 4 1/4"
GROUT: MAYEI BLANCO	GROUT: MAYEI BLANCO

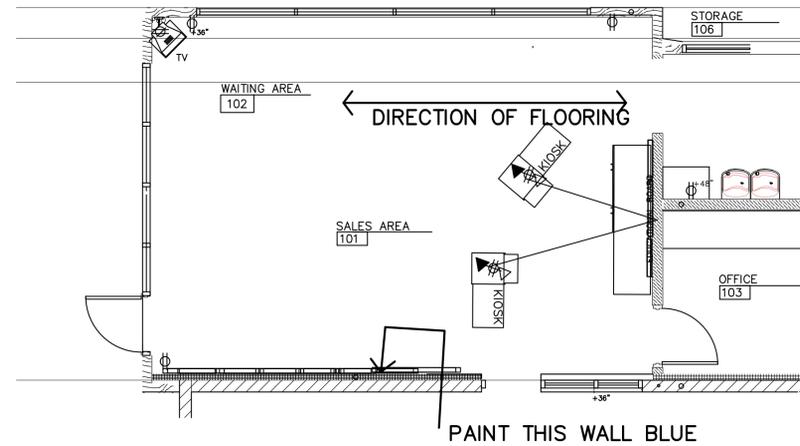
4 RESTROOM FINISHES
SCALE: N.T.S.

GENERAL NOTES:

- APPLY THE WALK OFF CARPET (4'X6' DIRECTLY TO THE CONCRETE SLAB DO NOT APPLY IT OVER THE FLOORING. PROVIDE JOHNSONITE REDUCER AROUND ALL EDGES (STYLE: CTA-09-A1, COLOR: BURNT UMBER)
- ALL FLOORING SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR
- PROVIDE 1 EXTRA BOX (32 S.F.) OF ALL FLOORING PRODUCTS FOR ATTIC STOCK
- ALL FLOORING MATERIALS MAY BE PURCHASED FROM EF CONTRACT FLOORING EXCEPT ADHESIVE AND THE TRANSITION STRIPS.....CONTACT KIMBERLY LYNCH AT THE CONTACT INFORMATION SHOWN BELOW.
- RUBBER TRANSITION STRIP HAS A 1-3 WEEK LEAD TIME

NOTE:

ALL INTERIOR FINISHES SHALL COMPLY WITH THE REQUIREMENTS CONTAINED IN THE 2018 IBC CHAPTER 18



1 DETAIL - INTERIOR PAINT DETAILS
SCALE: N.T.S.

	Floor	Supplied by:
Manufacturer (1)	Bolyu/EF Contract Flooring	Bolyu/EF Contract Flooring
Number (1)	Main Floor LVT Style: Woodlands, Color Ironwood LVT direction - Run lengthwise in the wide direction of the room. Regardless of entry location /showroom design	Bolyu/EF Contract Flooring
Color (1)	Ironwood - Item # EFCWL001	Bolyu/EF Contract Flooring
Finish	N/A	
Size (1)	7" x 48" (42 sq ft per box)	Bolyu/EF Contract Flooring
Note (1)	LVT - with Hardwood Plank Pattern Attic Stock - Provide 1 extra Box (32 sq. ft) extra for Attic Stock	
Adhesive (1a)	LVT Adhesive The LVT adhesive, Taylor, RESOLUTE (MS-PLUS® RESILIENT™) Adhesive	Supplied by Installer
Transition	Johnsonite - Rubber Reducer - Style: CTA-09-A1, Color: #63 Burt Umber	Supplied by Installer - Lead Time 1 - 3 weeks
Size (2)	24" x 24", (6.22 sq yds per box)	Bolyu/EF Contract Flooring
Note (2)	Install Quarter Turn	
Adhesive (2a)	Nexus, multipurpose carpet tile adhesive	Bolyu/EF Contract Flooring

CONTACT PRICING AND QUESTIONS (ALL LOCATIONS, NATIONWIDE)
TARA KALVA
BOLYU/EF CONTRACT
720.604.9944
TARA.KALVA@EFCONTRACTFLOORING.COM

3 DETAIL - FLOORING SPECIFICATIONS
SCALE: N.T.S.

Brakes Plus Interior Paint Specifications

Location	Worldly Gray	Intellectual Gray	Virtual Taupe	Balanced Beige	Safety Red	Brakes Plus Blue
Shop	All walls above red base	Ceiling & Joists	Metal Doors & Frames (Interior of Building)		Lower 4' of walls This area to receive block filler & gloss paint	
Office			Painted Wood Doors and Frames	Walls		
Showroom			Half Wall Drywall Painted Wood Doors and Frames (to office and bathroom and closet)	Walls		See attached Drawing
Parts Room	Walls	Ceiling & Joists	Metal Door and Frame			
Employee Bath	Walls & Ceiling		Metal Doors & Frames			
Customer Bath			Painted Wood Doors and Frames	Walls & Ceiling		
Break Room	Walls	Ceiling				Formula: Promar 200 Deep Base 631W2253 1 Gallon Formula W1 2Y 23+11 B1 1+01 L1 2Y 21+11 R3 55+01

* Use block fill on all cinder block walls prior to painting (See Finish Schedule Section 3.05)

Brand	Sherwin-Williams	Sherwin-Williams	Sherwin-Williams	Sherwin-Williams	Sherwin-Williams	Sherwin-Williams
Color	Worldly Gray	Intellectual Gray	Virtual Taupe	Balanced Beige	Safety Red	Blue
Number	SW7043	SW7045	SW7039	SW7037		
Product						Brakes Plus Custom Color
Finish	See Finish Schedule Section 3.05	Dry Fall	See Finish Schedule Section 3.05	See Finish Schedule Section 3.05	See Finish Schedule Section 3.05	

2 DETAIL - INTERIOR PAINT SPECIFICATIONS
SCALE: N.T.S.

Brakes Plus Exterior Paint Specifications					
Location	Brand	Color	Number	Finish	Special Instructions
Corner-guards	Sherwin Williams	Artisan Tan	SW 7540		
Doors	Sherwin Williams	Artisan Tan	SW 7540		
Trash Enclosure Doors	Sherwin Williams	Artisan Tan	SW 7540		

5 DETAIL - EXTERIOR PAINT SPECIFICATIONS
SCALE: N.T.S.

BRAKES PLUS
SEC OF CANYON CREEK DRIVE & S. 31ST STREET
TEMPLE, TX.



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SHEET

A6-3

MATERIAL FINISHES

GENERAL STRUCTURAL NOTES:

A. DESIGN DATA:

DESIGN CODE:	2015 INTERNATIONAL BUILDING CODE
CONCRETE 28-DAY STRENGTH:	FC = 4,000 PSI
MISCELLANEOUS ROLLED SECTIONS AND PLATES (ANGLES, CHANNELS, PLATES, ETC.)	ASTM A36 (UNLESS NOTED OTHERWISE)
PLAIN BOLTS AND ANCHORS	ASTM A307
REINFORCING STEEL	ASTM A615 Fy = 60,000 PSI
WELDED WIRE FABRIC	ASTM A185
MORTAR TYPE S & GROUT 28-DAY COMPRESSIVE STRENGTH = 2,000 PSI (MASONRY CEMENT IS NOT ACCEPTABLE) ASTM C1019	
CONCRETE MASONRY UNITS (LIGHTWEIGHT) ASTM C652	
NET COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS = 2,800 PSI	
NET AREA COMPRESSIVE STRENGTH OF MASONRY FM = 2,000 PSI	
ALLOWABLE SOIL BEARING CAPACITY: 2,500 PSF ON SELECT / STRUCTURAL FILL (PER SOIL REPORT)	
DESIGN LOADS	
ROOFS D = 20 PSF	
Lr = 20 PSF (NON-REDUCIBLE)	
S = 5 PSF (GROUND & ROOF SNOW LOAD)	
WIND LOADING CRITERIA (2015 IBC & ASCE 7-10)	
15 MPH, EXPOSURE C	
SEISMIC LOADING CRITERIA (2015 IBC & ASCE 7-10)	
IMPORTANCE FACTOR = 1.0	
MAPPED SPECTRAL RESPONSE Ss = 0.067g, S1 = 0.038g	
SITE CLASS = C, Fa = 1.2, Fv = 1.7	
SPECTRAL RESPONSE COEFFICIENTS: SDS = 0.053g, SD1 = 0.044g	
SEISMIC DESIGN CATEGORY = A	
SEISMIC FORCE RESISTANT SYSTEM = ORDINARY REINFORCED MASONRY SHEAR WALLS & LIGHT FRAMED SHEAR WALLS	
RESPONSE MODIFICATION FACTOR (R) = 2.0	

B. FOUNDATION WORK:

- THE GEOTECHNICAL REPORT PREPARED BY TERRACON (PROJECT NO. AC245038) DATED AUGUST 16, 2024, IS AVAILABLE AND SHALL BE REVIEWED BY THE CONTRACTOR. SEE SPECIFICATIONS AND GEOTECHNICAL REPORT FOR OVEREXCAVATION RECOMPACTION.
- CONTRACTOR SHALL COORDINATE FOOTING ELEVATIONS WITH FINAL GRADING PLAN TO PROVIDE A MINIMUM OF 2'-0" GRADE ABOVE THE BOTTOM OF ALL FOOTINGS.
- SUBSOILS SUPPORTING OR IN DIRECT CONTACT WITH FOOTINGS, SLABS/ON GRADE, OR OTHER FOUNDATION ELEMENTS SHALL BE PROTECTED AGAINST FREEZING CONDITIONS THAT COULD CAUSE MOVEMENT OR OTHER DETRIMENTAL EFFECT TO THE STRUCTURE AS A WHOLE OR TO ANY OF ITS COMPONENT PARTS.
- WHEN WORKING NEAR EXISTING AND/OR NEW CONSTRUCTION, THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION SO AS NOT TO UNDERMINE, DISTURB, DAMAGE OR, IN ANY WAY, CAUSE UNDESIRABLE MOVEMENT, CRACKING, AND/OR SETTLEMENT OF THE ADJACENT CONSTRUCTION.
- SLABS ON GRADE SHALL BE SUPPORTED ON SUBGRADE THAT HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE SECTION 4.3 "SLAB-ON-GRADE FLOORS" IN THE GEOTECHNICAL REPORT. ANY UNACCEPTABLE UNDISTURBED VIRGIN SOIL, OR BACKFILL/GRANULAR FILL, AS DETERMINED BY THE OWNER'S GEOTECHNICAL ENGINEER, SHALL BE REMOVED AND REPLACED AS REQUIRED BY THE GEOTECHNICAL ENGINEER.

C. CONCRETE:

- FOR REINFORCEMENT DEVELOPMENT LENGTH AND SPLICE LENGTH SEE TYPICAL REINFORCEMENT TABLE ON THIS SHEET.
- PROVIDE CORNER BARS IN WALLS AND FOOTINGS THE SAME SIZE AND NUMBER AS THE CONTINUOUS REINFORCING.
- REINFORCING IN FOOTINGS SHALL BE ACCURATELY PLACED BEFORE PLACING CONCRETE. DO NOT FLOAT REINFORCING INTO FOOTINGS.
- CONCRETE SHALL BE REGULAR WEIGHT (144 PCF) WITH TYPE II CEMENT, 3/4" MAXIMUM AGGREGATE SIZE WITH POTABLE WATER. CONCRETE SHALL CONFORM TO ACI 301. THE MAXIMUM WATER-CEMENT RATIO FOR FOOTINGS, WALLS & SLABS SHALL BE 0.45. PROVIDE 6% AIR ENTRAINMENT IN CONCRETE USED IN FOOTINGS & WALLS. INTERIOR SLABS SHALL HAVE NATURAL ENTRAPPED AIR (3% MAXIMUM).
- MECHANICALLY VIBRATE CONCRETE, EXCEPT THAT SLABS ON GRADE NEED TO BE VIBRATED ONLY AROUND UNDERFLOOR DUCTS AND OTHER ITEMS EMBEDDED IN THE SLAB. EMBEDDED ITEMS INCLUDE ELECTRICAL CONDUITS, MECHANICAL PIPING, AND STEEL ANGLES OR CHANNELS. EMBEDDED ITEMS DOES NOT IMPLY REINFORCING STEEL. ALL OTHER CONCRETE PLACEMENT SHALL BE VIBRATED. CONCRETE SHALL BE VIBRATED IN CONFORMANCE WITH ACI 309. VIBRATE CONCRETE ONLY UNTIL THE CONCRETE IS THOROUGHLY CONSOLIDATED AND THE VOIDS FILLED. INSERT INTERNAL VIBRATORS VERTICALLY TO THE FULL DEPTH OF THE LAYER BEING PLACED AND INTO THE PREVIOUS LAYER IF APPLICABLE. DO NOT DRAG VIBRATORS THROUGH THE CONCRETE. DO NOT FLOW CONCRETE FROM ONE LOCATION TO ANOTHER BY USE OF VIBRATOR.
- DO NOT PLACE PIPES, DUCTS, OR CHASES IN STRUCTURAL CONCRETE WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER. SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR LOCATIONS.
- FLOOR SURFACE TOLERANCE CLASS "B". SEE ACI 301 FOR PROCEDURE OF MEASUREMENT AND CORRECTION.
- CONTROL JOINTS SHALL BE PLACED AT COLUMN-LINE INTERSECTIONS AT A MAXIMUM SPACING INDICATED BELOW AND HAVE A MAXIMUM ASPECT RATIO OF 1.5 TO 1.0 UNLESS OTHERWISE INDICATED. SEE DETAIL - ON DRAWING - FOR CONTROL JOINT REQUIREMENTS.

D. MASONRY:

- FURNISH AND CONSTRUCT MASONRY IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR MASONRY CONSTRUCTION (ACI 530.1-11/ASCE 6-11/TMS 602-11.)
- LAY MASONRY UNITS IN RUNNING BOND.
- MAXIMUM GROUT LIFT WITHOUT CLEANOUTS 4'-0" IN BLOCK WALLS AND 8" IN GROUTED TWO-WYTHE WALLS.
- IN 8" WALLS, PROVIDE CONTINUOUS FULL HEIGHT VERTICAL REINFORCING IN CENTER OF GROUT AT CENTER OF WALL. TYPICAL REINFORCING SHALL BE 1-#6 AT 2'-0" ON CENTER AND 2-#6 AT CORNERS, INTERSECTIONS, WALL ENDS, DOOR AND WINDOW JAMBS, AND SIDE OF EXPANSION OR CONTROL JOINTS UNLESS NOTED OTHERWISE.
- GROUT CELLS FULL AT ALL ANCHOR AND EMBED LOCATIONS.
- PROVIDE LADDER TYPE #9 JOINT REINFORCING AT 16" ON CENTER VERTICAL SPACING IN ALL CLAY MASONRY AND UNLESS NOTED OTHERWISE.
- SPLICE MASONRY WALL REINFORCING AS SCHEDULED ON 3/S3-3.
- PLACE BOND BEAM REINFORCING CONTINUOUS THROUGH EXPANSION CONTROL JOINTS, WRAPPING BARS WITH 1/8 INCH THICK BOND BREAKING TAPE 2'-0" BOTH SIDES OF JOINT. DO NOT SPLICE BOND BEAM REINFORCING WITHIN 6'-0" OF AN EXPANSION OR CONTROL JOINT.
- PROVIDE CONTINUOUS BOND BEAMS AT ALL BEAM BEARING AND TRUSS BEARING ELEVATIONS, AND AT THE TOP OF ALL WALLS.
- SPLICE BOND BEAM REINFORCING AT MASONRY CONTROL/EXPANSION JOINTS AS SHOWN ON MASONRY JOINT DETAIL ON 4/S3-3.
- PROVIDE CONTINUOUS WIRE LATH GROUT BARRIERS BELOW BOND BEAMS.
- PROVIDE LINTELS OVER ALL OPENINGS AND RECESSES IN MASONRY WALLS.
- ALL LINTELS SHALL HAVE A MINIMUM BEARING OF 8 INCHES EACH END.
- FOR ALL OPENINGS NOT OTHERWISE DETAILED OR SCHEDULED, MINIMUM LINTELS SHALL BE FOR EACH 4 INCH OF MASONRY WIDTH 1-L 3-1/2 X 3-1/2 X 1/4 FOR SPANS UP TO 4'-0", 1-L 4 X 3-1/2 X 1/4 FOR SPANS UP TO 6'-0" AND 1-L 5 X 3-1/2 X 1/4 FOR SPANS UP TO 8'-0". FOR SPANS LESS THAN 2'-0" PROVIDE A 5/16" PLATE.
- MASONRY CONTROL JOINT SPACING SHALL NOT EXCEED 24'-0".
- ALL MASONRY CONSTRUCTION SHALL HAVE SPECIAL INSPECTION PER IBC SECTION 1705.4 AND HAVE LEVEL 2 QUALITY ASSURANCE IN ACCORD WITH ACI530-11 SECTION 1.14. PERIODIC INSPECTION SHALL BE INTERPRETED AS TWO TIMES PER WEEK.

E. WOOD:

- WOOD SHALL COMPLY WITH THE LATEST EDITION OF THE GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION OR THE WEST COAST LUMBER INSPECTION BUREAU.
- ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED GRADING AGENCY.
- SAWN LUMBER SHALL HAVE THE FOLLOWING MINIMUM GRADE UNLESS NOTED OTHERWISE:

TYPE OF USE	MATERIAL AND GRADE
TOP PLATES, ALL OTHER SAWN LUMBER	DOUGLAS FIR NO. 2
POSTS AND BEAMS	DOUGLAS FIR NO. 1

- ALL 2x BEARING WALLS SHALL BE BLOCKED HORIZONTALLY AT 4'-0" O.C. VERT. SPACING FOR ALL WALLS GREATER THAN 9'-0" IN HEIGHT.
- ALL PLYWOOD SHALL BE C-D OR C-C SHEATHING EXTERIOR GRADE CONFORMING TO STANDARD PS0.019.
- PLYWOOD SHALL BE PLACED WITH FACE GRAIN PERPENDICULAR TO SUPPORTS USING A MINIMUM 5-PLY PLYWOOD. PLYWOOD JOINTS SHALL BE STAGGERED.
- PLYWOOD ATTACHMENT SHALL BE DONE USING COMMON NAILS. NAILING SHALL BE AS NOTED ON ROOF FRAMING PLAN.
- ALL SILL PLATES IN CONTACT WITH CONCRETE OR MASONRY SHALL BE TREATED DOUGLAS FIR OR FOUNDATION GRADE REDWOOD.
- BRACE WOOD TRUSSES LATERALLY AT BEARING POINTS AND INTERMEDIATE LOCATIONS AS REQUIRED BY MANUFACTURER.
- SEE 3/S1-0 FOR ULTIMATE WIND UPLIFT.

F. SPECIAL INSPECTION:

- IN ACCORD WITH 2018 IBC SECTIONS 1704 & 1705, AS NOTED BELOW, TESTING AND INSPECTION SHALL BE BY AN INDEPENDENT TESTING/INSPECTION FIRM UNDER THE SUPERVISION OF A LICENSED ENGINEER EMPLOYED BY THAT FIRM. THIS ENGINEER SHALL BE DEEMED THE DESIGNATED ENGINEER OF RECORD FOR SPECIAL INSPECTIONS PERFORMED BY HIS FIRM OR HIS CONSULTANTS. INSPECTORS SHALL BE ICBO CERTIFIED AND APPROVED BY THE BUILDING OFFICIAL.
- THE DESIGNATED ENGINEER OF RECORD FOR SPECIAL INSPECTIONS SHALL BE RESPONSIBLE FOR DEFINING THE ACTIVITIES OF THE INSPECTORS, FOR CERTIFYING THE QUALIFICATIONS OF THE INSPECTORS WITH THE BUILDING OFFICIAL AND TO ATTEND THE PRE-CONSTRUCTION MEETING TO DEFINE THEIR SCOPE OF SERVICES AND THE TESTING OR TEST PROCEDURES THAT ARE REQUIRED AS OUTLINED IN THE INTERNATIONAL BUILDING CODE.
- SPECIAL INSPECTION IS TO BE PROVIDED IN ADDITION THE INSPECTIONS CONDUCTED BY THE LOCAL DEPARTMENT OF BUILDING SAFETY AND SHALL NOT BE CONSTRUED TO RELIEVE THE OWNER OR HIS AUTHORIZED AGENT FROM REQUESTING THE PERIODIC AND CALLED INSPECTIONS REQUIRED BY SECTION 108.5 AND 108.7 OF THE INTERNATIONAL BUILDING CODE.
- CONCRETE PER SECTION 1705.3 AND TABLE 1705.3.
- ANCHOR RODS INSTALLED IN CONCRETE: PER TABLE 1705.3.
- REINFORCING PER TABLE 1705.3.
- STRUCTURAL MASONRY: PER SECTION 1705.4.
- GRADING, EXCAVATION AND FILLING: PER SECTION 1705.6. SEE GEOTECHNICAL REPORT.
- EXPANSION BOLT, SCREW ANCHOR AND ADHESIVE ANCHOR INSTALLATION TO VERIFY INSTALLATION IN ACCORD WITH ICBO REPORTS NOTED PREVIOUSLY OR APPROVED EQUAL.
- THE INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
- THE INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS ON THE WORK TO THE BUILDING OFFICIAL AND TO THE ENGINEER. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, AND, IF UNCORRECTED, TO THE ENGINEER AND THE BUILDING OFFICIAL.
- THE TESTING/INSPECTION FIRMS ENGINEER SHALL COMPLETE, SIGN AND SEAL, A FINAL REPORT CERTIFYING THAT TO THE BEST OF HIS KNOWLEDGE, THE WORK IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.
- THE SPECIAL INSPECTOR SHALL BE SELECTED AND CREDENTIALS SHALL BE SUBMITTED TO THE CITY PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.

G. OTHER:

- UNLESS NOTED OTHERWISE, EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT II EXPANSION ANCHORS OR APPROVED EQUAL. ADHESIVE ANCHORS SHALL BE HILTI STANDARD HAS RODS WITH THE HVA ADHESIVE SYSTEM, THE SIMPSON SET SYSTEM, OR APPROVED EQUAL.
- VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO STARTING WORK. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES.
- VERIFY IN FIELD ALL EXISTING CONDITIONS SHOWN ON DRAWINGS.
- ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL, AND PLUMBING WITH APPROPRIATE TRADES. PROVIDE ALL TEMPORARY BRACING, SHORING, GUYING, OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION.
- ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE STAMP (AND SIGNATURE) OF AN ENGINEER REGISTERED IN OKLAHOMA.

H. TYPICAL REINFORCING NOTES:

- WHERE DRAWINGS ARE DETAILED SIMILAR TO DETAIL 2, EXTEND THE EMBEDMENT LENGTH SUCH THAT THE HOOKED BAR CONTACTS THE LAYER OF MAIN REINFORCING SHOWN.
- EMBEDMENT LENGTHS IN CHART ARE TYPICAL EXCEPT AS NOTED IN DETAIL 2, OR AS INDICATED ON DRAWINGS.

I. DEVELOPMENT LENGTH NOTES:

- WHERE DRAWINGS ARE DETAILED SIMILAR TO DETAIL 2, EXTEND THE EMBEDMENT LENGTH SUCH THAT THE HOOKED BAR CONTACTS THE LAYER OF MAIN REINFORCING SHOWN.
- EMBEDMENT LENGTHS IN CHART ARE TYPICAL EXCEPT AS NOTED IN DETAIL 2, OR AS INDICATED ON DRAWINGS.

J. CONCRETE REINFORCEMENT COVER:

CONCRETE EXPOSURE	MEMBER	REINFORCEMENT	SPECIFIED COVER
CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND	ALL	ALL	3"
	ALL	#6 TO #18	2"
EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	ALL	#5 AND SMALLER	1 1/2"
	SLABS, JOISTS, & WALLS	#14 & #18	1 1/2"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	ALL	#14 & SMALLER	3/4"
	BEAMS, COLUMNS, PEDASTALS, AND TENSION TIES	PRIMARY REINFORCEMENT STRIRUPS, TIES, SPIRALS, AND HOOPS	1 1/2"

K. REINFORCING DEVELOPMENT AND SPLICES:

BAR SIZE	DEVELOPMENT LENGTH		SPLICE LENGTH	
	TOP	OTHER	TOP	OTHER
#3	1'-7"	1'-3"	2'-0"	1'-7"
#4	2'-1"	1'-7"	2'-8"	2'-1"
#5	2'-7"	2'-0"	3'-4"	2'-7"
#6	3'-1"	2'-5"	4'-0"	3'-1"
#7	4'-6"	3'-6"	5'-10"	4'-6"
#8	5'-2"	4'-0"	6'-8"	5'-2"
#9	5'-10"	4'-6"	7'-7"	5'-10"
#10	6'-7"	5'-1"	8'-6"	6'-7"
#11	7'-3"	5'-7"	9'-5"	7'-3"

L. DEVELOPMENT LENGTHS HOOKED BARS:

BAR SIZE	LENGTH OR MIN. EMBEDMENT
#3	8"
#4	10"
#5	1'-0"
#6	1'-3"
#7	1'-5"
#8	1'-7"
#9	1'-10"
#10	2'-0"
#11	2'-3"

M. CONCRETE REINFORCEMENT COVER:

CONCRETE EXPOSURE	MEMBER	REINFORCEMENT	SPECIFIED COVER
CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND	ALL	ALL	3"
	ALL	#6 TO #18	2"
EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	ALL	#5 AND SMALLER	1 1/2"
	SLABS, JOISTS, & WALLS	#14 & #18	1 1/2"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	ALL	#14 & SMALLER	3/4"
	BEAMS, COLUMNS, PEDASTALS, AND TENSION TIES	PRIMARY REINFORCEMENT STRIRUPS, TIES, SPIRALS, AND HOOPS	1 1/2"

N. WOOD:

- WOOD SHALL COMPLY WITH THE LATEST EDITION OF THE GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION OR THE WEST COAST LUMBER INSPECTION BUREAU.
- ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED GRADING AGENCY.
- SAWN LUMBER SHALL HAVE THE FOLLOWING MINIMUM GRADE UNLESS NOTED OTHERWISE:

TYPE OF USE	MATERIAL AND GRADE
TOP PLATES, ALL OTHER SAWN LUMBER	DOUGLAS FIR NO. 2
POSTS AND BEAMS	DOUGLAS FIR NO. 1

- ALL 2x BEARING WALLS SHALL BE BLOCKED HORIZONTALLY AT 4'-0" O.C. VERT. SPACING FOR ALL WALLS GREATER THAN 9'-0" IN HEIGHT.
- ALL PLYWOOD SHALL BE C-D OR C-C SHEATHING EXTERIOR GRADE CONFORMING TO STANDARD PS0.019.
- PLYWOOD SHALL BE PLACED WITH FACE GRAIN PERPENDICULAR TO SUPPORTS USING A MINIMUM 5-PLY PLYWOOD. PLYWOOD JOINTS SHALL BE STAGGERED.
- PLYWOOD ATTACHMENT SHALL BE DONE USING COMMON NAILS. NAILING SHALL BE AS NOTED ON ROOF FRAMING PLAN.
- ALL SILL PLATES IN CONTACT WITH CONCRETE OR MASONRY SHALL BE TREATED DOUGLAS FIR OR FOUNDATION GRADE REDWOOD.
- BRACE WOOD TRUSSES LATERALLY AT BEARING POINTS AND INTERMEDIATE LOCATIONS AS REQUIRED BY MANUFACTURER.
- SEE 3/S1-0 FOR ULTIMATE WIND UPLIFT.

O. CORNERS:

NOTE: UNLESS OTHERWISE INDICATED, THE CONTRACTOR HAS THE OPTION OF REINFORCING CORNERS IN ACCORDANCE WITH OPTION #1 OR OPTION #2.

P. INTERSECTIONS:

NOTE: UNLESS OTHERWISE INDICATED, THE CONTRACTOR HAS THE OPTION OF CONSTRUCTING INTERSECTIONS WITH OR WITHOUT CONSTRUCTION JOINTS. REINFORCE PER APPLICABLE DETAIL.

Q. HORIZONTAL WALL REINFORCEMENT DETAILS:

R. ROOF DIAPHRAGM NAILING PATTERN:

S. ROOF WIND UPLIFT LOADING:

T. BRACKES PLUS:

BRACKES PLUS
SEC OF CANYON CREEK DRIVE & S. 31ST STREET
TEMPLE, TX.

U. ENGINEER OF RECORD:

37266
8/28/2024
PROFESSIONAL ENGINEER

V. REVISIONS:

REVISION	DATE	COMMENTS

W. PROJECT INFORMATION:

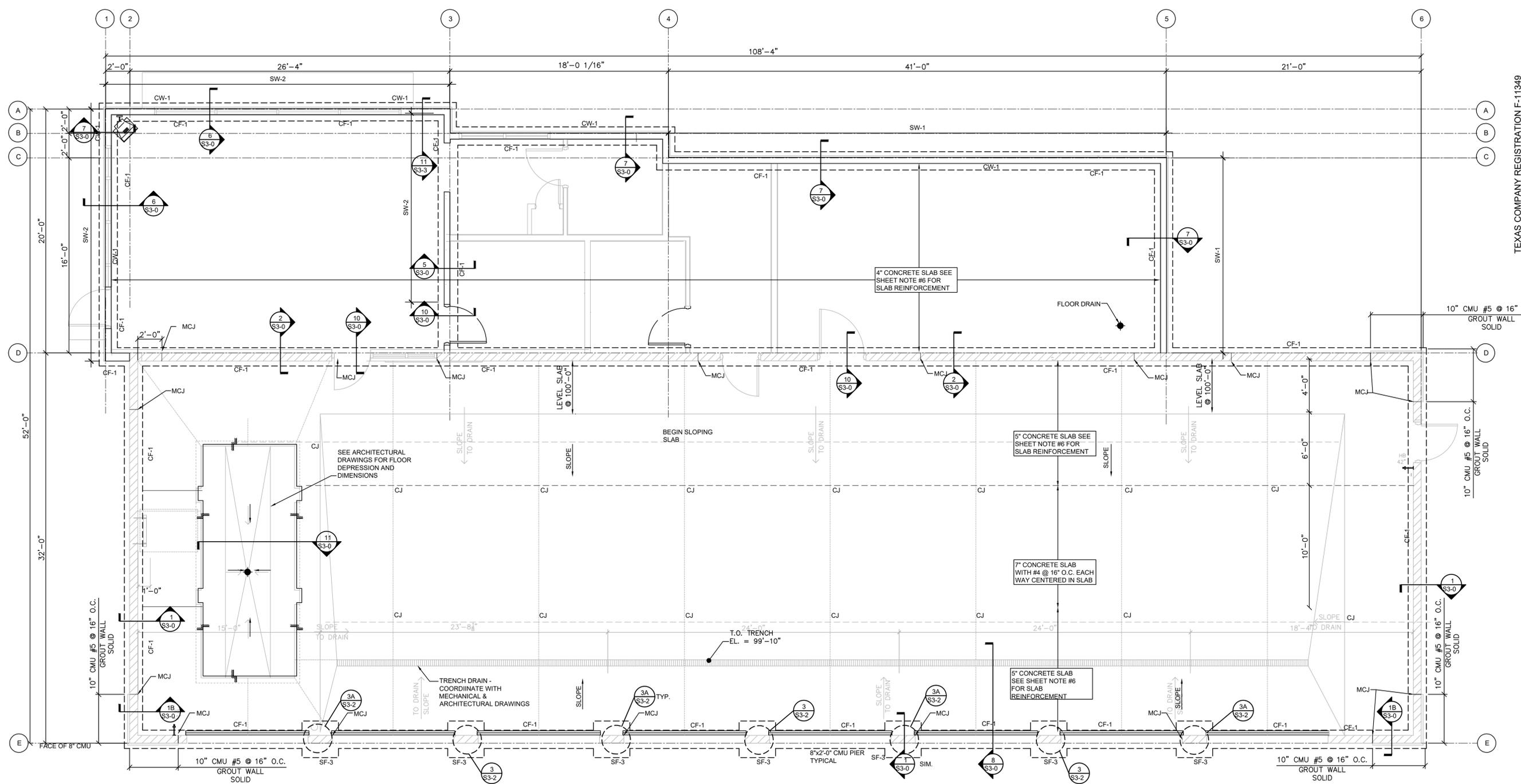
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CLIENT JOB # _____
DRAWN BY: SLM
CHECKED BY: TAS
DATE OF ISSUE: 08.30.24

X. SHEET:

S1-0
GENERAL STRUCTURAL NOTES AND DETAILS

Y. PERFORMANCE Engineering:

PERFORMANCE Engineering
11811 Fort Street, Suite 104 - Omaha, NE 68164
389 Perry St., Suite 204A - Castle Rock, CO 80104
(402) 343-3980 Fax: (402) 343-3981
NE 06466
PE # 240826
TEXAS COMPANY REGISTRATION F-11349



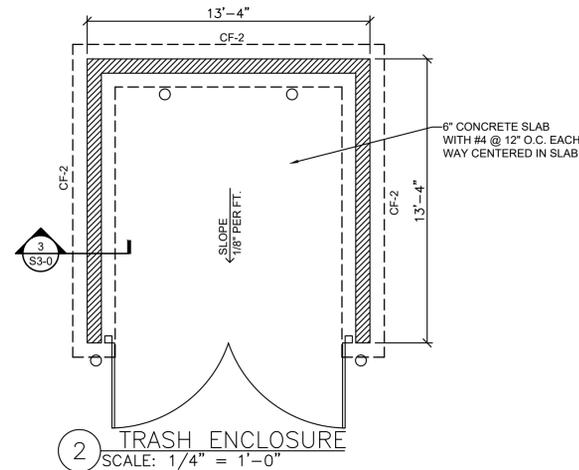
1 FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

SHEAR WALL SCHEDULE										
MARK	WALL SHEATHING	NAILS, PENETRATION	PANEL EDGE NAILING	FIELD NAILING	SILL BOLTS	STUDS, SILLS & PLATES	ALLOWABLE SHEAR (PLF)	HOLD-DOWNS	FOUNDATION ANCHOR	END MEMBERS
SW-1	3/8" NOMINAL STRUCTURAL I SHEATHING, ONE SIDE, BLOCKED	10d x 3" 1 1/2" PEN.	6" O.C.	6" O.C.	3/4" DIA. @ 24" O.C.	2x STUDS, 2x SILL, 2x PL	340	HDU8-SDS2.5	7/8" DIA. EMBED 9"	4x OR (3) 2x
SW-2	3/8" NOMINAL STRUCTURAL I SHEATHING, TWO SIDES, BLOCKED	10d x 3" 1 1/2" PEN.	6" O.C.	6" O.C.	3/4" DIA. @ 24" O.C.	2x STUDS, 2x SILL, 2x PL	680	HDU11-SDS2.5	1" DIA. EMBED 12"	6x OR (4) 2x

- NOTE:**
- ALL WOOD MEMBERS IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
 - NAILING & HARDWARE IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED.
 - WHERE PANELS ARE APPLIED ON BOTH FACES OF WALL AND NAIL SPACING IS LESS THAN 6" O.C. ON EITHER SIDE PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS. STAGGER NAILING AT EACH SIDE OF JOINT.
 - INSTALL HARDWARE IN ACCORD WITH MANUFACTURER'S RECOMMENDATIONS.
 - ALL BOLT HOLES SHALL BE 1/8" (MAX) OVERSIZED AT THE CONNECTION OF HOLD DOWNS TO POSTS. INSPECTOR SHALL VERIFY.
 - SEE DETAIL 5/S3-3 FOR TYPICAL SHEAR WALL FRAMING.

FOUNDATION SCHEDULE		
MARK	SIZE	REINFORCING
TF-1	1'-6" WIDE x 2'-0" DEEP	3 - #5 CONT. TOP & BOTT W/ #4 STIRRUPS @ 18" O.C.

FOUNDATION WALL SCHEDULE		
MARK	SIZE	REINFORCING
CW-1	6" WIDE x 1'-2" HIGH	2 - #5 CONT. & # DOWELS AT 24" O.C.
CW-2	6" WIDE x 8" HIGH	1 - #5 CONT. & #4 DOWELS AT 24" O.C.



2 TRASH ENCLOSURE
SCALE: 1/4" = 1'-0"

- SHEET NOTES:**
- INDICATES CMU WALLS WITH #5 VERTICAL BARS @ 2'-0" O.C. CENTERED IN MASONRY WALLS. SEE 6/S3-3 FOR MASONRY CONSTRUCTION.
 - SOIL PREPARATION BENEATH BUILDING AND FOUNDATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT FOR SHALLOW FOUNDATION SYSTEM AND SLAB ON GRADE CONSTRUCTION. THIS ACTION SHALL BE OBSERVED BY A REPRESENTATIVE OF THE GEOTECHNICAL FIRM ON A CONTINUOUS BASIS TO ENSURE THAT SOIL PROPERTIES MEET THE REQUIREMENTS IN THE GEOTECHNICAL REPORT.
 - THE ON SITE SOILS SHALL BE EXCAVATED TO A DEPTH OF 4 FEET BELOW EXISTING OR FINISHED GRADE, WHICH EVER IS GREATER. THE EXCAVATED SOIL MUST BE REPLACED WITH PROPERLY COMPACTED SELECT FILL UP TO FINISHED GRADES. ALL FILL WITHIN BUILDING AREA SHALL BE SELECT FILL. THIS ACTION SHALL BE FOR THE ENTIRE BUILDING FOOTPRINT AND EXTEND 5 FEET BEYOND THE PERIMETER.
 - ALL SUBGRADE SOILS BELOW SLAB ON GRADES SHALL BE MOISTURE CONDITIONED AND COMPACTED AS DISCUSSED IN THE SOIL REPORT.
 - CONTRACTOR SHALL FOLLOW ALL RECOMMENDATIONS FOR MATERIAL AND COMPACTION LISTED IN THE SOIL REPORT
 - CONTRACTOR SHALL COORDINATE SIZE AND LOCATION OF FLOOR AND WALL PENETRATIONS AND BLOCK OUT ACCORDINGLY.
 - TOP OF FOOTING ELEVATION SHALL BE 99'-4" UNLESS NOTED OTHERWISE. CONTINUOUS FOOTINGS MAY BE EARTH FORMED.
 - "MCJ" INDICATES MASONRY CONTROL JOINT LOCATION FOR CONCRETE MASONRY UNITS. SEE 2/S3-3 & 4/S3-3 FOR DETAILS. SEE ARCHITECTURAL DRAWINGS FOR BRICK CONTROL JOINTS.
 - SEE PLAN FOR SHOP AREA SLAB ON GRADE THICKNESS. REINFORCE CONCRETE SLAB WITH #4 BARS @ 16" O.C. EA. WAY. TOP OF SLAB SHALL BE 100'-0" UNLESS NOTED OTHERWISE.
 - SW-# INDICATES SHEAR WALL TYPE. SEE SCHEDULE.

TEXAS COMPANY REGISTRATION F-11349

PERFORMANCE Engineering

11811 Fort Street, Suite 104 - Omaha, NE 68164
 (402) 343-3980 Fax: (402) 343-3981
 NE-C04265 PE # 240826

BRAKES PLUS
 SEC OF CANYON CREEK DRIVE & S. 31ST STREET
 TEMPLE, TX.

PROFESSIONAL REGISTERED ENGINEER
 STATE OF TEXAS
 37266
 8/28/2024
 PROFESSIONAL ENGINEER

ENGINEER OF RECORD

REVISION	DATE	COMMENTS

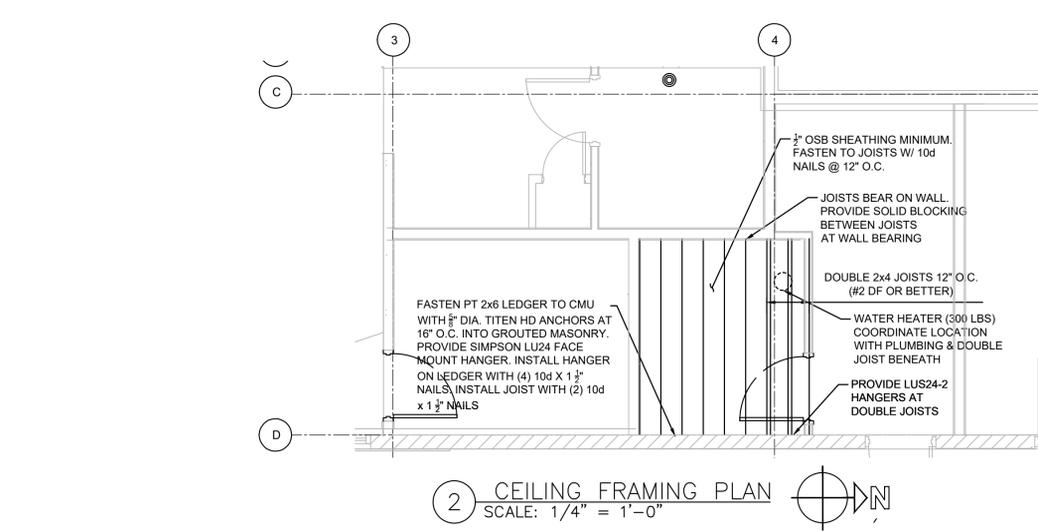
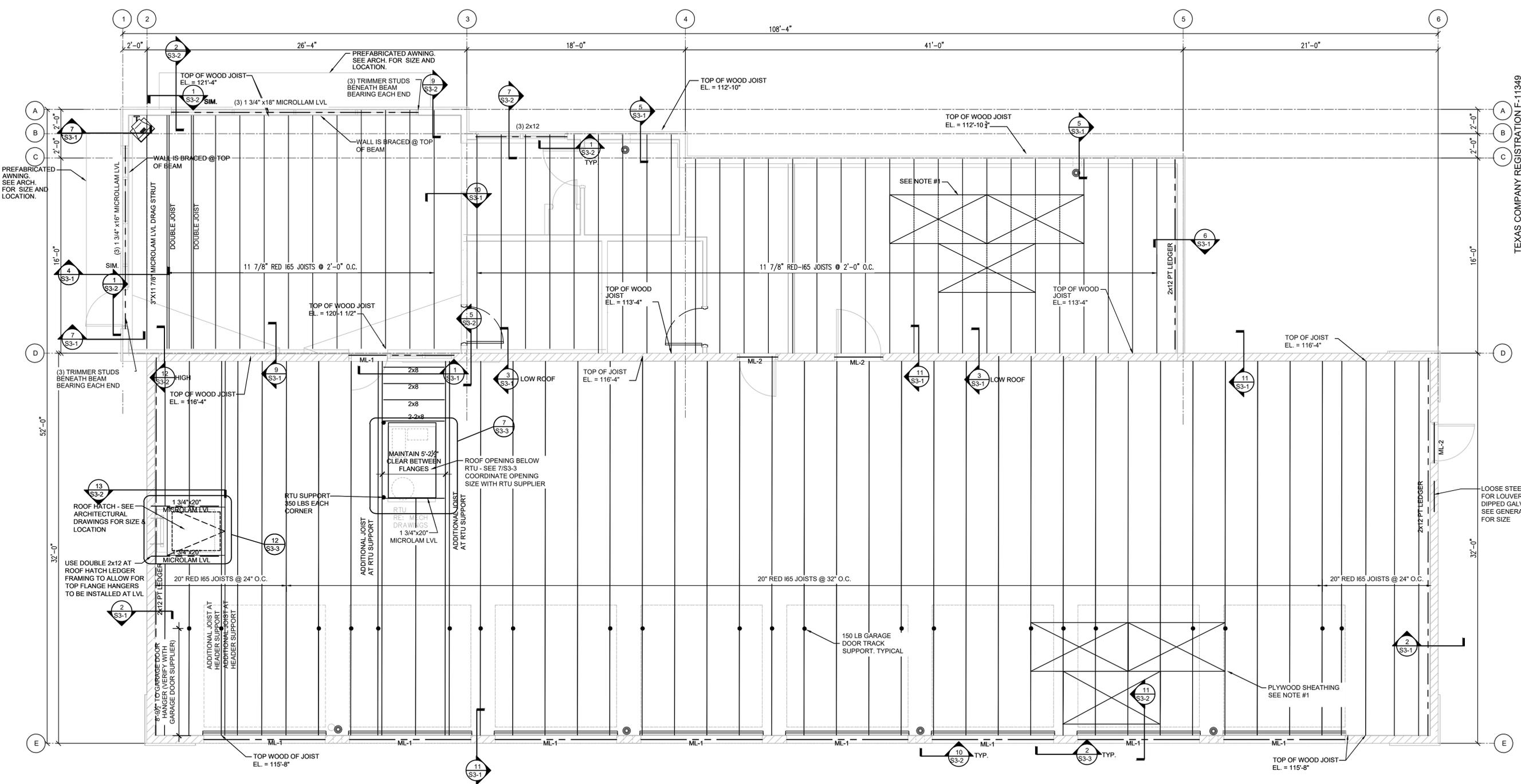
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 CLIENT JOB # _____
 DRAWN BY: SLM
 CHECKED BY: TAS
 DATE OF ISSUE: 08.30.24

45 SPICGLASS DRIVE
 LITTLETON, CO 80123
 VOICE: 303.981-8925

SHEET

S2-0

FOUNDATION PLAN



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

2 CEILING FRAMING PLAN
SCALE: 1/4" = 1'-0"

- SHEET NOTES:**
- DIAPHRAGM SHALL BE A MINIMUM OF 3/4" PLYWOOD SHEATHING WITH A SPAN RATING OF 48/24, EXTERIOR GRADE AND SHALL BE FASTENED TO STRUCTURE AS FOLLOWS:
 - 10d NAILS x 1 1/2"
 - SEE S1-0 FOR NAILING PATTERN OF ROOF DIAPHRAGM
 - FIELD NAILING = 12" O.C.
 - BLOCK EDGES OF PLYWOOD IN ROOF DIAPHRAGM AS SHOWN ON S1-0. BLOCKING SHALL BE A MINIMUM OF 2X NOMINAL THICKNESS
 - ML-# INDICATES MASONRY LINTEL TYPE. SEE DETAIL 11/S3-2.
 - UNLESS OTHERWISE DETAILED, CONNECTIONS FOR ITEMS HUNG FROM JOISTS (FANS, HEATERS, GARAGE DOORS, ETC.) SHALL BE DESIGNED AND INSTALLED BY THE GENERAL CONTRACTOR AND THEIR RESPECTIVE TRADES. THIS LOAD SHALL NOT EXCEED 250 LBS PER JOIST.
 - ATTACH 2x12 LEDGER PIECES TO CMU WALL W/ (2) 3/4" DIA. ANCHORS @ 24" O.C., EMBED 6" MIN. FASTENERS SUCH AS NAILS, SCREWS, AND ANCHORS SHALL BE HOT DIPPED GALVANIZED WHEN CONNECTING TO OR ANCHORING PRESSURE TREATED LUMBER.
 - ATTACH 3 1/2x20 LVL LEDGER TO CMU WALL W/ 3/4" DIA. A36 ANCHOR BOLTS @ 16" O.C. (HORZ.) TOP AND BOTTOM. 12" O.C. (VERT.). EMBED 6" MIN. PROTECT JOIST HANGERS FROM CONTACT WITH TREATED LEDGER VIA MOISTURE BARRIER (GRACE VYCORP DECK PROTECTOR). WHERE ANCHOR BOLTS ARE LOCATED, THE CELLS OF THE CLAY MASONRY UNITS ARE TO BE FULLY GROUTED. FASTENERS SUCH AS NAILS, SCREWS, AND ANCHORS SHALL BE HOT DIPPED GALVANIZED WHEN CONNECTING TO OR ANCHORING PRESSURE TREATED LUMBER.
 - SEE DETAIL 7/S3-3 FOR ROOF OPENINGS & PENETRATIONS.
 - WOOD WALLS SHALL BE 2x6 DOUGLAS FIR NO. 2 STUD. STUD SPACING SHALL BE 16" O.C. UNLESS NOTED OTHERWISE.
 - ALL WOOD JOISTS SHALL BE DESIGNED TO SUPPORT THE LOADS INDICATED ON SHEET S1-0.

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 11811 Fort Street, Suite 104 - Omaha, NE 68164
 (402) 343-3980 Fax: (402) 343-3981
 NE 06465
 PE # 240826

BRAKES PLUS
 SEC OF CANYON CREEK DRIVE & S. 31ST STREET
 TEMPLE, TX.



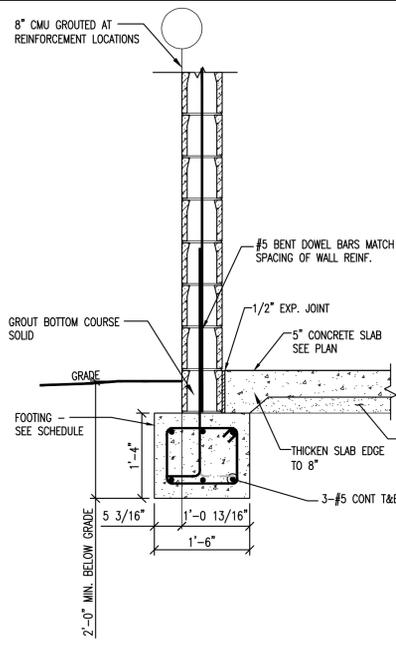
ENGINEER OF RECORD

REVISION	DATE	COMMENTS

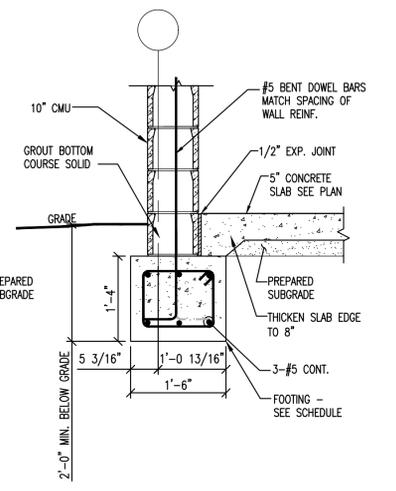
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 CLIENT JOB # _____
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 DATE OF ISSUE: 08.30.24



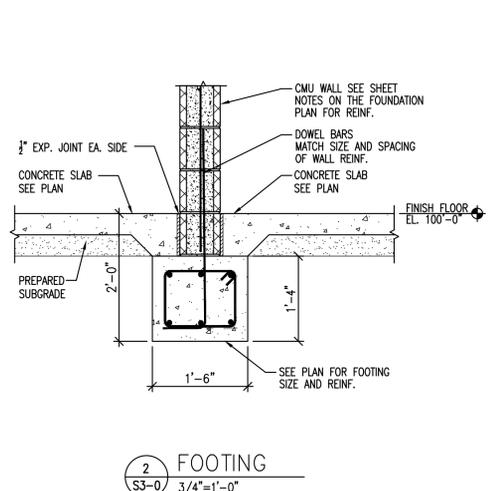
SHEET
S2-1
 ROOF FRAMING PLAN



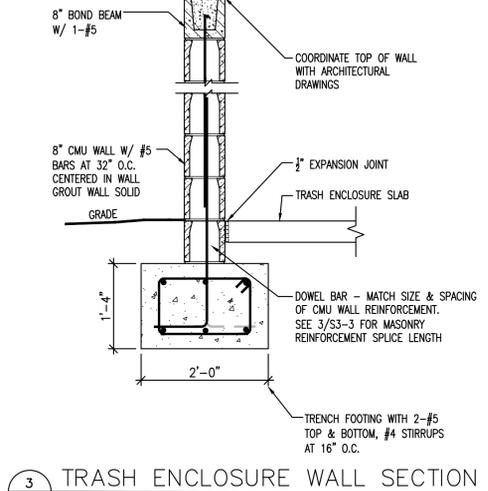
1 TRENCH FOOTING @ WALL
S3-0 3/4"=1'-0"



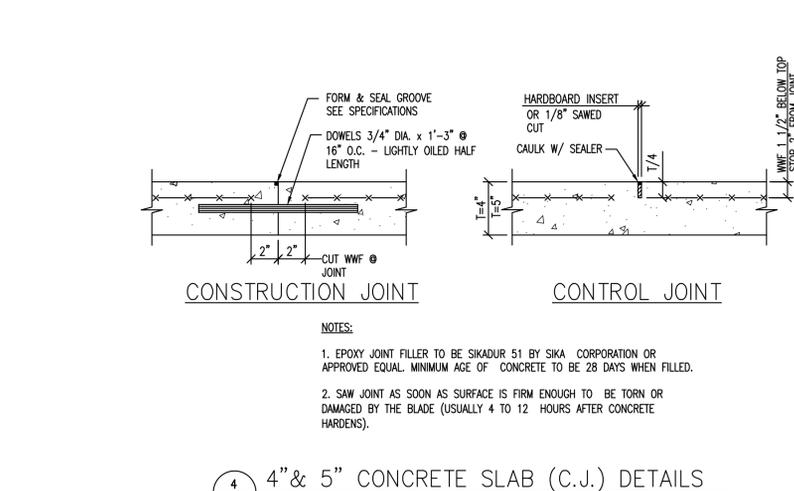
1B FOOTING @ 10" CMU
S3-0 3/4"=1'-0"



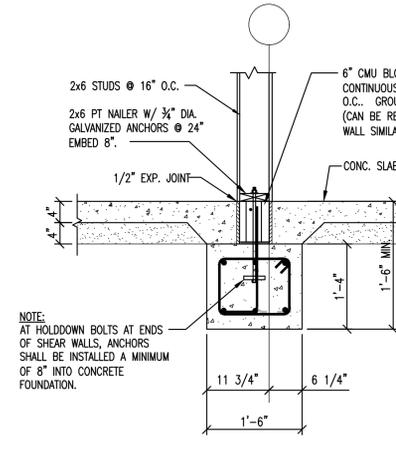
2 FOOTING
S3-0 3/4"=1'-0"



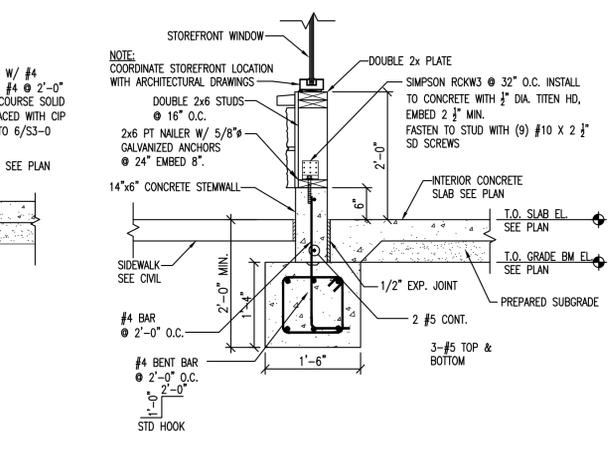
3 TRASH ENCLOSURE WALL SECTION
S3-0 3/4"=1'-0"



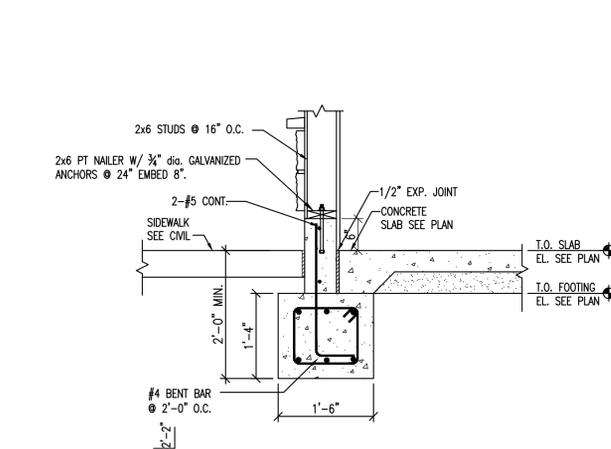
4 4" & 5" CONCRETE SLAB (C.J.) DETAILS
S3-0 N.T.S.



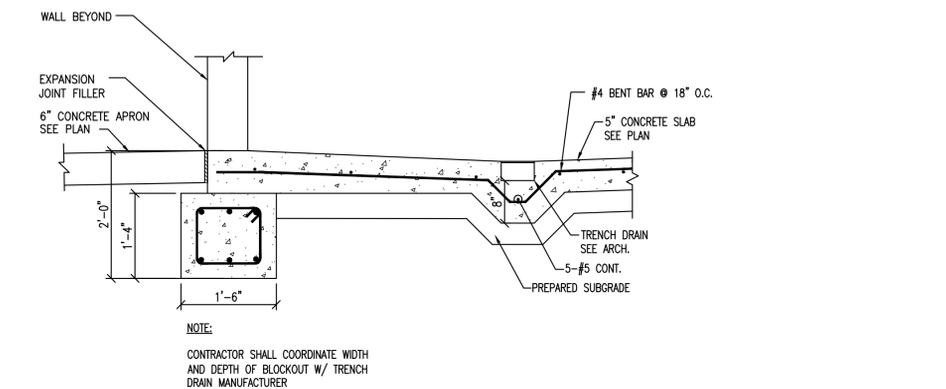
5 FOUNDATION SECTION
S3-0 3/4"=1'-0"



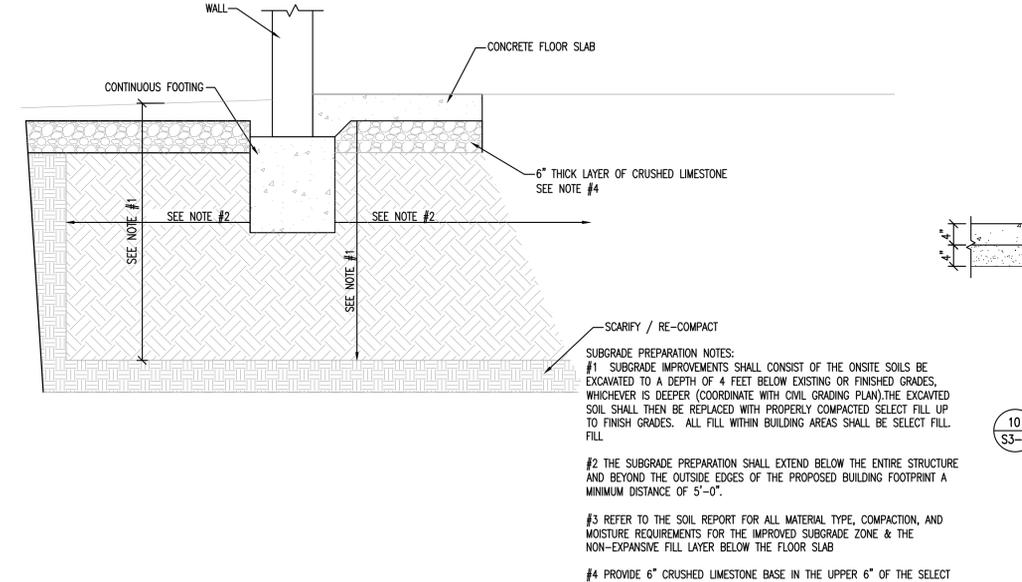
6 FOOTING @ STOREFRONT
S3-0 3/4"=1'-0"



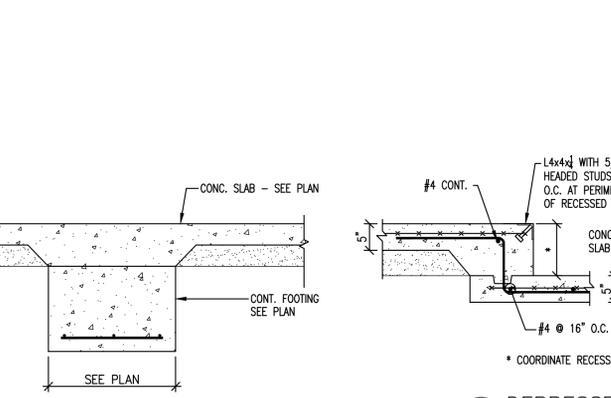
7 FOOTING @ WOOD WALL
S3-0 3/4"=1'-0"



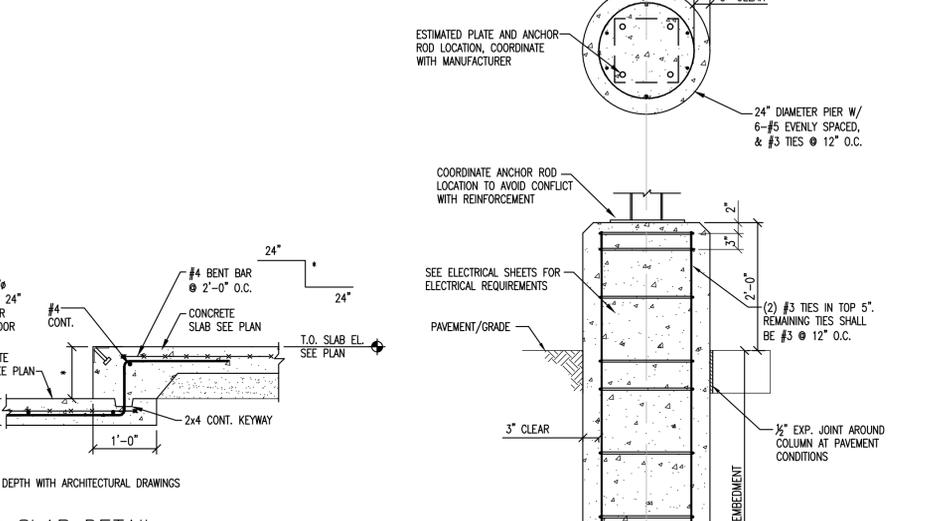
8 FOOTING & TRENCH DRAIN
S3-0 3/4"=1'-0"



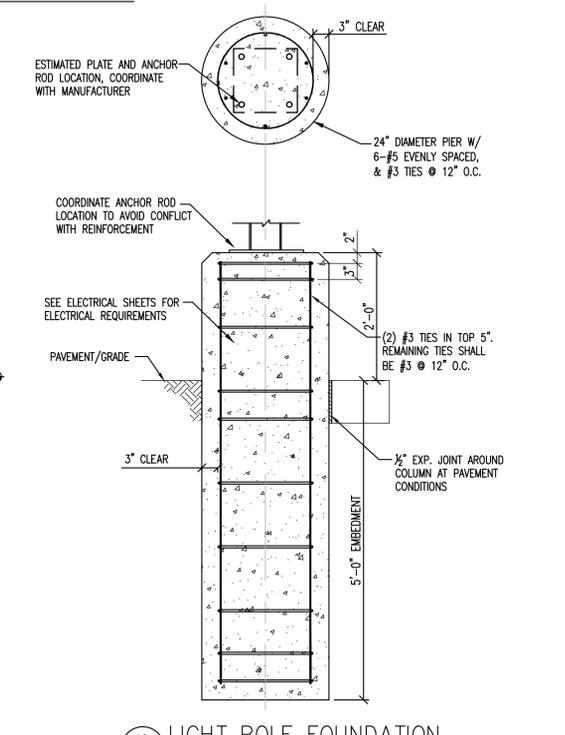
9 SUBGRADE PREPARATION
S3-0 3/4"=1'-0"



10 FOOTING SECTION
S3-0 3/4"=1'-0"



11 DEPRESSED SLAB DETAIL
S3-0 3/4"=1'-0"



12 LIGHT POLE FOUNDATION
S3-0 3/4"=1'-0"

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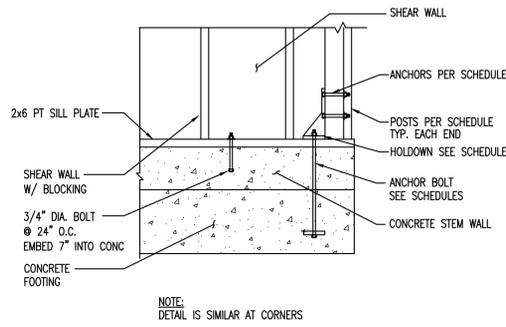
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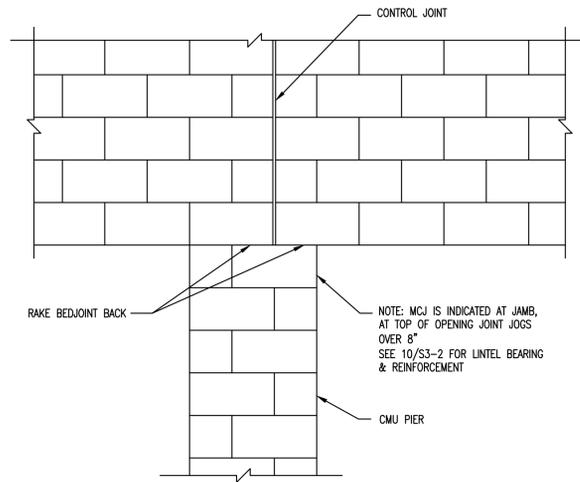
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SHEET
S3-0
SECTIONS AND DETAILS



1 FOOTING @ COLUMN
S3-3 3/4"=1'-0"

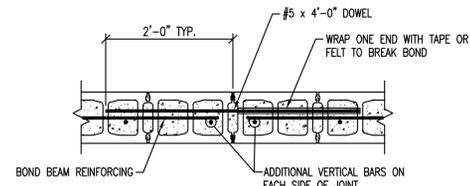


2 CONTROL JOINT @ PIER
S3-3 3/4"=1'-0"

BAR SIZE	6" BLOCK		8" BLOCK		10" BLOCK		12" BLOCK		REMARKS
	BAR @ CL	BAR @ EDGE	BAR @ CL	BAR @ EDGE	BAR @ CL	BAR @ EDGE	BAR @ CL	BAR @ EDGE	
#4	2'-1"	1'-9"	2'-7"	2'-1"	2'-5"	2'-1"	2'-4"	-	
#5	3'-3"	2'-2"	4'-0"	2'-7"	3'-10"	2'-7"	3'-7"	-	
#6	-	3'-6"	8'-2"	4'-4"	7'-8"	4'-4"	7'-3"	-	
#7	-	5'-0"	-	5'-1"	10'-5"	5'-1"	9'-10"	-	

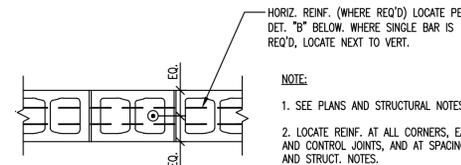
NOTE: WHEN REQUIRED SPLICE LENGTH EXCEEDS 4'-0" USE HIGH LIFT GROUTING WITH NO SPLICES OR USE MECHANICAL TENSION SPLICES WITH LOW LIFT GROUTING.

3 MASONRY REINFORCEMENT SPLICE & DEVELOPMENT LENGTH
S3-3 3/4"=1'-0"

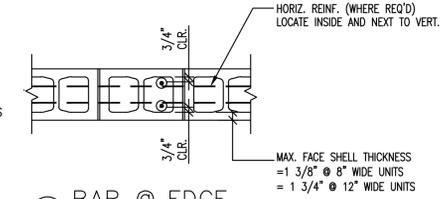


NOTE: THIS DETAIL DOES NOT APPLY TO BOND BEAMS LOCATED AT DIAPHRAGM CHORDS SUCH AS FLOORS OR ROOFS. AT DIAPHRAGM CHORD LOCATIONS, REINFORCEMENT SHALL RUN THROUGH JOINT WITH NO BOND BREAK.

4 MASONRY CONTROL JOINT
S3-3 3/4"=1'-0"

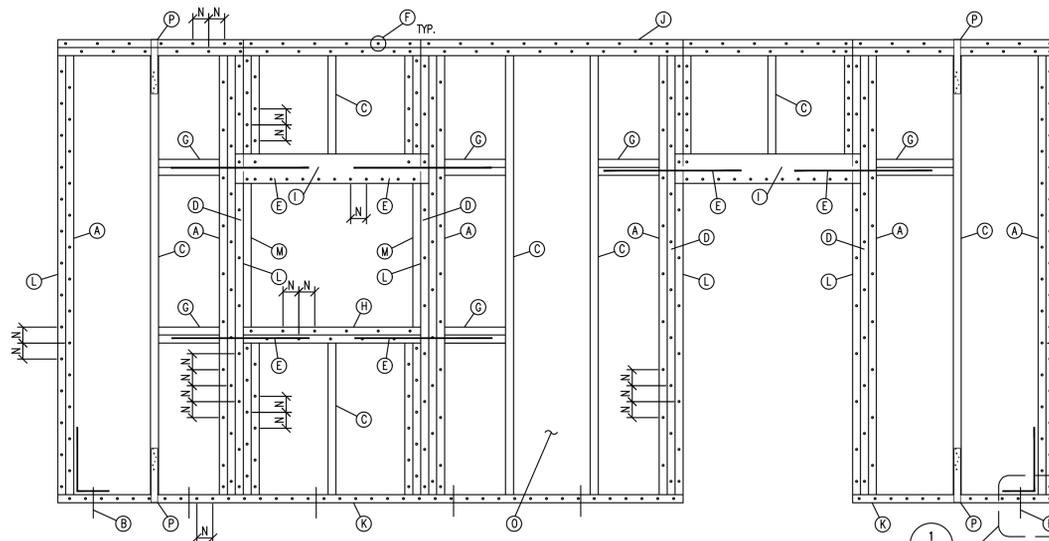


A BAR @ CENTER



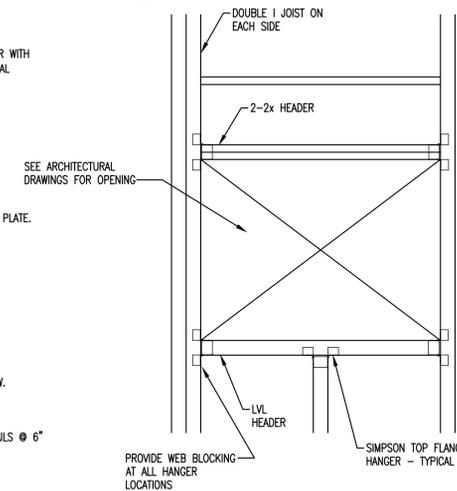
B BAR @ EDGE

6 TYP. MASONRY WALL REINF. PLACEMENT
S3-3 3/4"=1'-0"

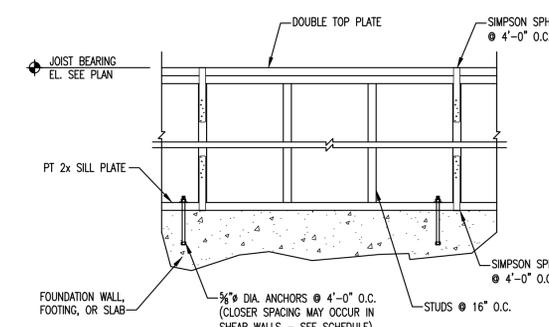


- A SHEAR WALL END STUDS (KING STUDS @ OPENINGS). NAIL THESE STUDS TOGETHER WITH SHEAR WALL BOTTOM PLATE NAILING (2 STUDS MIN.) EDGE NAIL WOOD STRUCTURAL PANEL SHEARWALL TO THESE STUDS.
- B SHEAR WALL ANCHORS OR STRAPS.
- C TYPICAL STUDS (OR JACK STUDS) @ 16" O.C. MAX. SPACING. FIELD NAIL WOOD STRUCTURAL PANEL SHEARWALLS TO STUDS. EDGE NAIL AT PANEL EDGES.
- D TRIMMER STUDS, CONTINUE EDGE NAILING FROM KING STUDS AND NAIL STUDS TOGETHER WITH SHEARWALL BOTTOM PLATE NAILING.
- E CS16 x 28" STRAP WITH 11-10d NAILS IN BLOCKING AND HEADER OR WINDOW PLATE.
- F SHEAR EDGE NAILING.
- G 2-2X BLOCKING (WIDTH TO MATCH STUDS).
- H WINDOW PLATE (2-2X MIN., WIDTH TO MATCH STUD).
- I HEADER (2-2X MIN.) WITH SHEARWALL EDGE NAILING.
- J DOUBLE TOP PLATE WITH SHEARWALL EDGE NAILING.
- K BOTTOM PLATE WITH SHEARWALL EDGE NAILING AND BOLTED OR NAILED TO BELOW.
- L WOOD STRUCTURAL PANEL EDGE.
- M 2X BLOCK BETWEEN HEADER AND WINDOW PLATE. NAIL TO TRIMMER WITH 16d NAILS @ 6" O.C.
- N SHEARWALL EDGE NAILING SPACING.
- O SHEARWALL PANEL.
- P STUD PLATE TIE - SEE TYPICAL WALL FRAMING DETAIL 8/S3-3.

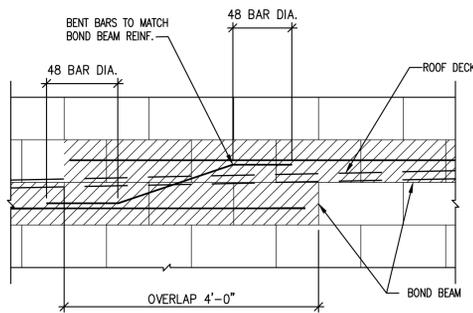
5 SHEAR WALL CONSTRUCTION
S3-3 3/4"=1'-0"



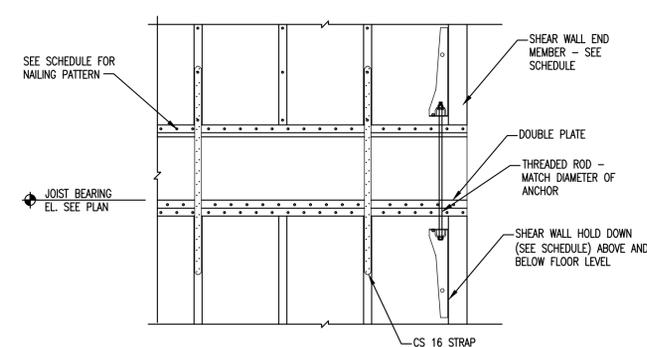
7 WOOD ROOF OPENING PLAN
S3-3 3/4"=1'-0"



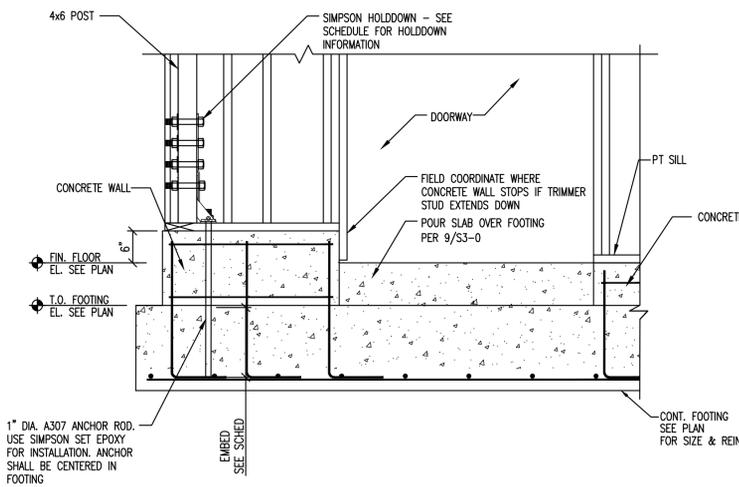
8 TYPICAL WALL FRAMING
S3-3 3/4"=1'-0"



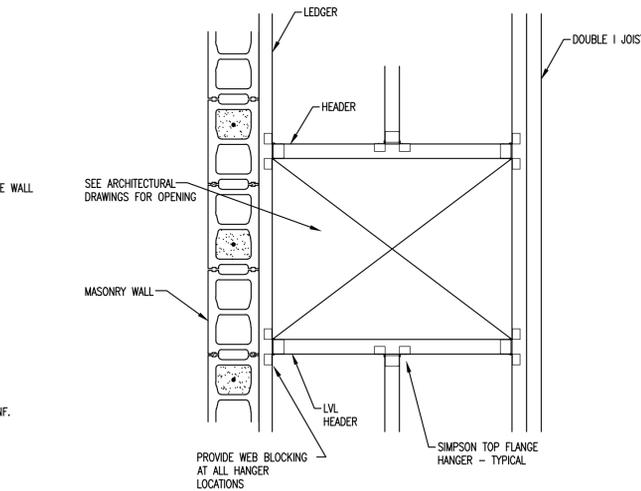
9 BOND BEAM STEP AT SLOPING ROOF
S3-3 3/4"=1'-0"



10 TWO LEVEL SHEAR WALL CONNECTION
S3-3 3/4"=1'-0"



11 FOOTING SECTION
S3-3 NTS



12 ROOF ACCESS OPENING
S3-3 3/4"=1'-0"

TEXAS COMPANY REGISTRATION F-11349
PERFORMANCE Engineering
11811 Fort Street, Suite 104 - Omaha, NE 68164
402.343.5860 Fax: 402.343.5861
NE 06466 PE # 2402626

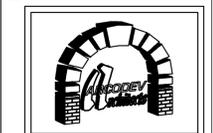
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45 SPYGLASS DRIVE
LITTLETON, CO 80123
VOICE: 303.881-8925

SHEET
S3-3
SECTIONS AND DETAILS

MECHANICAL GENERAL NOTES AND SPECIFICATIONS

GENERAL CONSTRUCTION NOTES:

- DRAWINGS ARE MEANT TO SHOW INTENT ONLY, NOT EXACT DETAIL. THESE DRAWINGS ARE A "BUILDERS SET" AND INTENDED FOR THE USE ON AN EXPERIENCED AND WELL QUALIFIED CONTRACTOR WHO MAY INFER REASONABLE BASED ON EXPERIENCE COMMON IN THE INDUSTRY AND TRADES. QUALITY LEVEL IS A REQUIRED STANDARD. DO NOT SCALE DRAWINGS. FIELD VERIFY ALL CONDITIONS OF WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER FOR CLARIFICATIONS BEFORE STARTING ANY WORK. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL ERRORS IN HIS WORK, INCLUDING THE LACK OF FIELD VERIFICATION OF EXISTING CONDITIONS.
- THE ARCHITECT AND PROFESSIONAL CONSULTANTS WILL NOT HAVE CONTROL OF AND WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK ON THIS PROJECT OR FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK ON THIS SITE, NOR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE INTENT OF THE CONTRACT AND OR THESE CONSTRUCTION DOCUMENTS.

BASIC REQUIREMENTS:

MECHANICAL DESIGN SHALL CONFORM TO THE 2021 INTERNATIONAL MECHANICAL CODE. PROJECT SHALL BE COORDINATED WITH THE EXISTING BUILDING SERVICES AND SHALL INCLUDE ALL ITEMS NECESSARY FOR COMPLETE AND FULLY OPERATIONAL TENANT MECHANICAL SYSTEMS. MAKE CONNECTIONS TO AND EXTEND SYSTEMS INSTALLED BY OTHERS AND/OR FURNISHED BY OTHERS. PROVIDE ACCESSORIES AND INCIDENTAL ITEMS AS REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM WHETHER OR NOT SPECIFICALLY SPECIFIED AND/OR SHOWN ON THE PLANS.

COORDINATE WITH OTHER TRADES FOR A COORDINATED INSTALLATION WITHIN THE AVAILABLE SPACE. WHERE CROWDED CONDITIONS EXIST, PREPARE COORDINATION DRAWINGS SHOWING ALL TRADE CONFLICTS AND SUBMIT TO ARCHITECT FOR APPROVAL AND DIRECTION PRIOR TO ROUGH-IN AND/OR INSTALLATION.

RELOCATION OF OUTLETS AND/OR DEVICES MADE PRIOR TO ROUGH-IN SHALL BE DONE AT NO ADDITIONAL COST.

ALL WORK SHALL BE PERFORMED BY PROPERLY LICENSED MECHANICS OR UNDER THEIR DIRECT SUPERVISION. ALL MATERIALS AND EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE APPLICABLE STANDARDS OF U/L AND SHALL BEAR THE U/L LABEL AS EVIDENCE THAT THE MATERIALS AND/OR EQUIPMENT MEETS THIS REQUIREMENT.

INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND DETAILS UNLESS OTHERWISE NOTED IN THESE PLANS. IF DISCREPANCIES EXIST CONTACT THE ENGINEER PRIOR TO ORDERING EQUIPMENT AND ROUGH-IN. ALL EQUIPMENT START UP AND TESTING SHALL BE PERFORMED BY THE EQUIPMENT MANUFACTURER TRAINED SERVICE TECHNICIAN.

THE SUB-CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME FAMILIARIZED WITH ALL REQUIREMENTS OF THE CONTRACT PRIOR TO SUBMISSION OF BID. THE SUB-CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY CONFLICTS PRIOR TO BID OR START OF INSTALLATION.

THE SUB-CONTRACTOR SHALL ARRANGE FOR ALL INSPECTIONS WHEN THEY BECOME DUE, AND SHALL NOT COVER ANY WORK UNTIL APPROVED BY THE INSPECTION AUTHORITY. ANY AND ALL FEES ASSOCIATED WITH THE MECHANICAL WORK, INCLUDING CONSTRUCTION AND INSPECTIONS SHALL BE PAID FOR BY THE SUB-CONTRACTOR IN ORDER TO DELIVER A COMPLETE AND FINISHED BUILDING, READY FOR OCCUPANCY AND 100% USAGE. THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT THE SUB-CONTRACTOR HAS FAMILIARIZED HIMSELF/HERSELF WITH THE PLANS AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND LABOR BECAUSE OF DIFFICULTIES ENCOUNTERED, WILL NOT BE RECOGNIZED IF THEY COULD HAVE BEEN FORESEEN HAD PROPER EXAMINATION BEEN MADE. ANY COSTS DUE TO THE LACK OF COOPERATION AMONG TRADES SHALL BE BORNE BY THE SUB-CONTRACTOR.

THE INFORMATION PRESENTED ON THESE DRAWINGS IS DIAGRAMMATIC IN NATURE. IT DOES NOT NECESSARILY REPRESENT ALL FITTINGS, HANGERS, ETC. FOR A COMPLETE WORKING SYSTEM. PROVIDE ALL MATERIALS AND LABOR FOR COMPLETELY FINISHED AND OPERATIONAL SYSTEMS. REFER TO LATEST ARCHITECTURAL DRAWINGS

FOR: EXACT WALL LOCATIONS, DIMENSIONS, AND PLUMBING FIXTURE LOCATIONS AND REQUIREMENTS.

SUB-CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY ALTERATIONS REQUIRED BY THE OWNER, ARCHITECT, OR FIELD CONDITIONS.

ALL EQUIPMENT SHALL BE NEW, SHALL COMPLY WITH APPLICABLE INDUSTRY STANDARDS, WITH SPECIFICATIONS ON DRAWINGS, AND ENERGY CODE COMPLIANCE CERTIFICATION AS ADOPTED BY THE STATE, AS WELL AS LOCAL JURISDICTIONAL, BUILDING DEPARTMENT. SUBMIT DATA FOR APPROVAL PRIOR TO ORDERING EQUIPMENT. SUBMITTAL SHALL INCLUDE ENERGY CODE COMPLIANCE CERTIFICATION.

SUB-CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT INCLUDING: FIXTURES SPECIFIED IN EQUIPMENT SCHEDULE ON DRAWINGS FOR REVIEW/APPROVAL (5) DAYS PRIOR TO BID. EQUIPMENT IS NOT TO BE ORDERED WITHOUT SUBMITTAL TO ARCHITECT/OWNER/ENGINEER.

ALL SPACE HEATING SUPPLY AIR DUCTS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST S.M.A.C.N.A. DUCT CONSTRUCTION STANDARDS AND BE INSULATED IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL JURISDICTIONAL ENERGY CONSER- VATION STANDARDS AND THE LATEST EDITION INTERNATIONAL MECHANICAL CODE.

ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS. INCREASE LISTED DUCT SIZE TO ACCOMMODATE LINER.

FLEX SHALL NOT EXCEED 8 FT. IN LENGTH AND SHALL BE TYPE "1" FACTORY DUCT. PROVIDE WITH 1 IN. EXTERNAL INSULATION IF MAIN SUPPLY DUCT IS INSULATED.

ALL SUPPLY RUN-OUTS TO HAVE MANUALLY ADJUSTABLE VOLUME DAMPERS WITH ABILITY TO LOCK IN PLACE. THIS SUB-CONTRACTOR SHALL INCLUDE IN HIS/HER BID THE COMPLETE COST FOR THE ELECTRICAL CONTRACTOR TO INTERLOCK EXHAUST FANS AS REQUIRED BY EQUIPMENT SCHEDULE. THIS SUB-CONTRACTOR SHALL FIELD VERIFY 10 FT. MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKE AND ALL VENTS OR EXHAUST OUTLETS.

WALL THERMOSTATS FOR HEATING/COOLING UNITS TO BE AUTOMATIC CHANGEOVER TYPE AND INSTALLED 48 IN. ABOVE FINISHED FLOOR. HEATING/COOLING UNITS SHALL MAINTAIN MINIMUM OUTSIDE AIR AS SHOWN ON SCHEDULE OR SHOWN IN FRESH AIR CALCULATIONS.

ALL FURNACES OR ROOFTOP UNITS SUPPLYING MORE THAN 2000 CFM OF AIR SHALL BE EQUIPPED WITH A SMOKE DETECTOR IN THE MAIN RETURN AIR DUCT WHICH WILL SHUT THE POWER OFF TO THE UNIT WHEN SMOKE IS DETECTED. THIS SMOKE DETECTOR SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR AND WIRED BY THE MECHANICAL CONTRACTOR. IN BUILDINGS WHERE FIRE DETECTION OR ALARM SYSTEMS ARE PROVIDED, THE SMOKE DETECTOR SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR AND SHALL BE SUPERVISED BY FIRE ALARM SYSTEM. SEE LATEST EDITION INTERNATIONAL MECHANICAL CODE FOR ADDITIONAL REQUIREMENTS. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL REMOTE TEST SWITCH AND INDICATING LIGHT AT CEILING LOCATION NEAR FURNACE/ROOFTOP LOCATION.

MECHANICAL CONTRACTOR IS RESPONSIBLE TO HAVE ROOFTOP UNIT MANUFACTURERS TECHNICIAN START ALL ROOFTOP UNITS. PROVIDE WRITTEN REPORT FROM MANUFACTURER FOR START-UP COMMISSIONING.

DUCTWORK

- DUCTWORK SHALL BE GALVANIZED SHEET METAL INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. INSTALL TURNING VANES IN ALL ELBOWS. ALL SPIN-IN FITTINGS AND RUNOUTS TO ANY REGISTERS, RETURN, OR EXHAUST TERMINAL SHALL BE PROVIDED WITH MANUAL VOLUME DAMPERS.
- ALL DUCTWORK SHALL BE SEALED IN ACCORDANCE WITH SMACNA STANDARDS. THE DUCT PRESSURE CLASS SHALL BE AS NOTED ON PLANS OR CORRESPONDING TO THE MAXIMUM EQUIPMENT ESP ON EACH SYSTEM. THE DUCTWORK SHALL BE SEALED TIGHT. LEAKAGE MAY NOT EXCEED 10% OF DESIGN AIRFLOW AT DESIGN PRESSURE. FOR SMOKE CONTROL SYSTEMS THE DUCT MUST BE TESTED AT 1.5 TIMES ITS DESIGN PRESSURE AND LEAKAGE MAY NOT EXCEED 5% OF DESIGN AIRFLOW.
- ALL EXPOSED ROUND DUCTWORK SHALL BE SPIRAL DUCT. NO JOISTS OR CONNECTIONS SHALL HAVE

ANY VISIBLE SEALANT FROM THE EXTERIOR SO THE DUCTWORK HAS A CLEAN AND WORKMAN LIKE APPEARANCE

- DUCT SIZES GIVEN ARE NET INSIDE FREE AREA.
- EQUIPMENT FLEXIBLE DUCTWORK CONNECTION NOT TO EXCEED 10 INCHES IN LENGTH WITH A MAX. 25 FLAME/50 SMOKE INDEX.
- FLEXIBLE DUCTWORK TO AIR DEVICES SHALL HAVE A MAXIMUM STRETCHED LENGTH OF 6 FEET. SUITABLE FOR RETURN AIR PLENUM.
- ALL EXHAUST TERMINALS MUST BE 3'-0" AWAY FROM IN ELEVATION FROM OPERABLE PORTION OF WINDOW AND DOORS. MC TO OFFSET AS REQUIRED.
- ALL DIRECT VENT VENT TERMINALS MUST BE 4'-0" AWAY IN ELEVATION HORIZONTALLY OR BELOW AND ATLEAST 1'-0" ABOVE ANY OPERABLE PORTION OF A WINDOW OR DOOR. MC TO OFFSET AS REQUIRED.

INSULATION

- ALL INSULATING VALUES ARE TO CONFORM TO THE LATEST VERSION OF THE INTERNATIONAL ENERGY CODE.
- ALL ROUND CONCEALED RIGID SUPPLY DUCTWORK SHALL BE EXTERNALLY WRAPPED WITH NOMINAL 1-1/2" THICK (MINIMUM R-6.0) FIBER GLASS INSULATION WITH FIRE RETARDANT VAPOR BARRIER.
- OUTDOOR AIR INTAKE DUCTS SHALL BE EXTERNALLY WRAPPED WITH NOMINAL 1-1/2" THICK (MINIMUM R-12.0) FIBER GLASS INSULATION WITH FIRE RETARDANT VAPOR BARRIER.
- WHEN LOCATED IN UNCONDITIONED SPACES ALL RECTANGULAR DUCTWORK SHALL BE LINED WITH 1" THICK 2 POUND DENSITY MINIMUM R-6.0 FIBER GLASS ACOUSTIC DUCT LINER. ALL DUCTWORK EXPOSED TO OUTDOOR AMBIENT TYPE CONDITIONS (UNCONDITIONED ATTICS, OUTSIDE AIR DUCTS, ETC) SHALL BE EXTERNALLY WRAPPED OR INTERNALLY LINED IN 2 - 2.5" NOMINAL INSULATION (MINIMUM R-12.0). ALL OUTDOOR DUCTWORK SHALL HAVE 2 - 2.5" DUCTLINER (MINIMUM R-12.0) AND THE DUCT BE SEALED WEATHERPROOF PER SMACNA GUIDELINES. RECTANGULAR DUCT WORK IN RETURN AIR PLENUM SHALL BE LINED WITH 1/2" THICK 2 POUND DENSITY (MINIMUM R2.1) MAT-LACED ACOUSTIC DUCT LINER.

AIR INLETS AND OUTLETS

- FURNISH AND INSTALL AIR INLETS AND OUTLETS AS SCHEDULED ON THE PLANS.
- OUTLETS SHALL HAVE A WHITE BAKED ENAMEL FINISH TO MATCH CEILING OR WALL.

EXHAUST FANS

- FURNISH AND INSTALL CENTRIFUGAL EXHAUST FANS AS SCHEDULED ON THE PLANS.
- FURNISH AND INSTALL ROOF CURBS AND BACKDRAFT DAMPERS.
- FURNISH AND INSTALL UNITS COMPLETE WITH ALL OPERATIONAL AND SAFETY CONTROL NECESSARY FOR PROPER OPERATION.

ROOFTOP HVAC UNITS

- FURNISH AND INSTALL ROOF TOP PACKAGED ELECTRIC A/C UNITS WITH NATURAL GAS HEATING SECTIONS AS SCHEDULED ON THE PLANS. ACCEPTABLE MANUFACTURERS ARE TRANE, CARRIER, CARRIER, OR YORK. ANY SUBSTITUTED MODELS MUST BE EQUAL IN CONTROLS, ACCESSORIES, AND PERFORMANCE TO SCHEDULED MODELS.
- FURNISH AND INSTALL UNITS COMPLETE WITH ALL OPERATIONAL AND SAFETY CONTROLS FOR SATISFACTORY OPERATION. PROVIDE PHASE REVERSAL PROTECTION ON ANY UNITS WITH SCROLL COMPRESSORS.
- FURNISH PROGRAMMABLE SPACE THERMOSTAT WITH NIGHT SETBACK OPERATION OR DIGITAL CONTROL SYSTEM FOR VAV APPLICATIONS AS APPLICABLE. MOUNT AT 4-42-INCHES AFF.
- FURNISH ALL UNITS WITH 100% OUTDOOR AIR ECONOMIZER PACKAGE UNLESS OTHERWISE NOTED.
- FURNISH ALL UNITS WITH 14-INCH ROOF CURBS.

RADIANT HEATING UNITS

- FURNISH AND INSTALL NATURAL GAS FIRED RADIANT HEATING UNITS AND ASSOCIATED ACCESSORIES AS SCHEDULED ON THE PLANS.
- UNITS SHALL BE COMPLETE WITH PLUGS FOR ELECTRICAL CONNECTION, SPACE THERMOSTATS, TUBE EXTENSIONS, FLUES, AND ROOF CAPS AS REQUIRED. UNITS SHALL BE UL AND AGA RATED.

ABBREVIATIONS

- (D) DEMO
- (E) EXISTING
- (N) NEW
- AVU AIR ADMITTANCE VALVE
- AD AREA DRAIN
- AFF ABOVE FINISH FLOOR
- AHU AIR HANDLING UNIT
- B BOILER
- BB BOOSTER FAN
- BFP BACKFLOW PREVENTER
- BT BATH TUB
- BV BALL VALVE
- CD CONDENSATE DRAIN
- CFM CUBIC FEET PER MINUTE
- CH CHILLER
- CO CLEANOUT
- COTG CLEANOUT TO GRADE
- CUV CONDENSING UNIT CHECK VALVE
- CUH CABINET UNIT HEATER
- DCW DOMESTIC COLD WATER
- DF DRINKING FOUNTAIN
- DH DOMESTIC HOT WATER
- DN DOWN SPOUT NOZZLE
- EC ELECTRICAL CONTRACTOR
- ECO END OF LINE CLEANOUT
- EDH ELECTRIC DUCT HEATER
- EF EXHAUST FAN
- EWC ELECTRIC WATER COOLER
- EWH ELECTRIC WATER HEATER
- FURN FURNACE
- FCO FLOOR CLEANOUT
- FCU FAN COIL UNIT
- FD FLOOR DRAIN
- FS FLOOR SINK
- G GAS
- GC GENERAL CONTRACTOR
- GM GAS METER
- GPH GALLONS PER HOUR
- GPM GALLONS PER MINUTE
- GUH GAS UNIT HEATER
- GW GREASE WASTE
- GWH GAS WATER HEATER
- HB HOSE BIB
- HP HEAT PUMP
- HX HEAT EXCHANGER
- IM ICE MAKER BOX
- LAV LAVATORY
- LS LAUNDRY SINK
- MAU MAKE-UP AIR UNIT
- MC MECHANICAL CONTRACTOR
- MF MEASURE FLOW
- NIC NOT IN CONTRACT
- NC NORMALLY CLOSED
- NO NORMALLY OPEN
- NTS NOT TO SCALE
- OA OUTSIDE AIR
- ORD OVER FLOW ROOF DRAIN PUMP
- PC PLUMBING CONTRACTOR
- PRV PRESSURE REDUCING VALVE
- PSI POUNDS PER SQUARE INCH
- RARI RETURN AIR REGISTER
- RD ROOF DRAIN
- RH RADIANT HEATER
- RTU ROOF TOP UNIT
- SA SUPPLY AIR
- SAR SUPPLY AIR REGISTER
- SF SUPPLY FAN
- SFT SERIES FAN TERMINAL
- SH SHOWER
- SK SINK
- SOI SAND/OIL INTERCEPTOR
- SS SERVICE SINK
- T&P TEMPERATURE & PRESSURE
- TD TRENCH DRAIN
- TYP TYPICAL
- UR URINAL
- VAV VARIABLE AIR VOLUME
- VVT VARI TRAC
- WB WASHER BOX
- WCO WALL CLEANOUT
- WH WALL HYDRANT

MECHANICAL LEGEND

VENTILATION SCHEDULE (2018 IMC)

SYSTEM OR UNIT #	ROOM NAME	ZONE FLOOR AREA (SQ.FT.) Az	OUTDOOR AIRFLOW REQUIRED PER PERSON (CFM/PERSON) Rp	OUTDOOR AIRFLOW REQUIRED PER PERSON (CFM /SQ.FT) Ra	ZONE OCCUPANT DENSITY (PPL/100 SQ.FT.)	ZONE POPULATION (PEOPLE) Pz	BREATING OUTDOOR AIR FLOW (CFM) Vbz	ZONE AIR DISTRIBUTION EFFECTIVENESS Ez	REQUIRED ZONE OUTDOOR AIR FLOW Vbz (CFM)
RTU-1	SALES 101	530	7.5	0.12	15	8	124	0.8	155
	COFFEE 102	75	5	0.06	5	0	5	0.8	6
	OFFICE 103	100	5	0.06	5	1	11	0.8	14
	BREAK 107	114	5	0.06	5	1	12	0.8	15
	INVENTORY 108	500		.12 CFM/SQ.FT.					60
									249
								300	

EXHAUST FAN SCHEDULE

PLAN MARK	MFR	MODEL NO.	LOCATION	STYLE	CFM	ESP (IN)	SONES	WEIGHT LBS	SPD	ELECTRICAL DATA				REMARKS
					VOLT	PH	HP	WATTS						
EF-1	ACME	VQ0150	TOILET	CEILING	75	0.25	1.1	25	1	115	1	-	100	1, 2
EF-2	ACME	VQ0150	TOILET	CEILING	75	0.25	1.1	25	1	115	1	-	100	1, 2
EF-3	GREENHECK	SBE-2H20-5	SIDEWALL-SERVICE AREA	WALL	3200	.35	23	150	1	115	1	1/2	9.8 AMPS	1, 3-7

- SELECTION BASED AT ALTITUDE
 - INTERLOCK WITH LIGHT SWITCH
 - PROVIDE WALL MOUNTED SENSOR CONNECTED BY E.C.
 - PROVIDE VIBRATION ISOLATORS
 - FURNISH WITH WALL COLLAR (# C-20), MOTORIZED DAMPER & WEATHERHOOD
- 6 CO SENSOR ALARM PER PLANS
DAMPERS OPEN AT 50 PPM & FAN ENERGIZES SHUTDOWN OPERATION - REVERSE SEQUENCE
7 PROVIDE STARTER SET BY MC, USED FOR DAMPER MOTOR, THERMOSTAT AND CO SENSOR CONTROL.

AIR CIRCULATION FAN SCHEDULE

PLAN MARK	MFR	MODEL NO.	LOCATION	STYLE	CFM	ESP (IN)	SPD	ELECTRICAL DATA				REMARKS
					VOLT	PH	HP	WATTS				
F-1	DAYTON	2RD29	CEILING/WALL	PROP	7450/3450	.25	1	115	1	1/4	-	1-5

- SELECTION BASED AT ALTITUDE
- PROVIDE SOFT START
- OSCILLATING FAN
- STRUCTURAL AND MOUNTING EQ. PER MANUFACTURER
- OSCILLATING FAN: MEANT FOR AIR MOVEMENT ONLY

GAS UNIT HEATER SCHEDULE

PLAN MARK	MFR	MODEL NO.	FUEL	INPUT MBTUH	OUTPUT MBTUH	CFM	HP	VOLT	PH	FLUE SIZE (IN)	REMARKS
GUH-1	MODINE	PDP175	NG	175	143	2725	1/2	115	1	5	1, 2

- REFERS TO MODINE. PERFORMANCE REFERS TO LOCAL ALTITUDE. 82% EFFICIENCY GAS HEATING UNIT.
- PROVIDE REMOTE TSTAT WITH SUMMER/WINTER SWITCH.

ROOFTOP HVAC UNIT SCHEDULE

PLAN MARK	MFR	MODEL NO.	CFM	MIN OA CFM	BLWR HP	ESP (IN)	GAS NAT/PROP	HEATING CAPACITY				NET COOLING CAPACITY						REFRIG (R410A / R22)	EFFICIENCY (STD / HI)	SEER/EER RATING	WEIGHT LBS	ELECTRICAL DATA				REMARKS			
								INPUT MBH (SL)	OUTPUT MBH (ALT)	EAT (F)	LAT (F)	EFF	STG	TOTAL MBH	SENS MBH	EADB (F)	EAWB (F)					LADB (F)	LAWB (F)	VOLT	PH		FLA (LG MTR)	MCA	MOCP
RTU-1	CARRIER	48CGFM06K1A3	1990	300	2	0.40	NG	130	106	63.3	113.4	81%	2	60.53	46.61	79.3	65.6	57.2	55.7	R-410A	STD	16 SEER	900	208	1	31.3	37	50	1-5

- REFERS TO COOLING CAPACITIES BASED ON 95F OADB, 80F EADB, 61F EAWB @ ELEV, AND 100F CONDENSING TEMPERATURE
- PROVIDE 14" ROOF CURB, BELT DRIVE, HAIL GUARDS, MICROPROCESSOR CONTROL, OPTIONAL DISCONNECT, AND 100% ECONOMIZER W/ BARO RELIEF.
- PROVIDE OPTIONAL CONVENIENCE OUTLET
- SEER AND EER RATING ARE RATED AT ARI CONDITIONS AND IN ACCORDANCE WITH DOE TEST PROCEDURES.
- PROVIDE 7-DAY, 24 HOUR PROGRAMMABLE THERMOSTAT.
- PROVIDE DUCT SMOKE DETECTOR AS REQUIRED.

CODES & DESIGN CRITERIA

JURISDICTION:	TEMPLE, TX
MECHANICAL CODE:	2018 IMC
ENERGY CODE:	2015 IECC
LOCAL ADDENDUMS:	YES
WINTER DESIGN DB:	47 F
SUMMER DESIGN TEMP DB / WB:	100/74 F
INDOOR HEATING SET POINT:	72 F
INDOOR COOLING SET POINT:	75 F
ROOF R-VALUE:	R40 (VERIFY)
WALL R-VALUE:	R19
ELEVATION:	597 FT
BUILDING TOTAL AREA:	4897 SQ.FT.

MECHANICAL SHEET LIST

SHEET #	SHEET TITLE
M0.1	MECHANICAL SPECS, SCHEDULES AND LEGEND
M0.2	SEQUENCE OF OPERATION
M1.1	MECHANICAL PLAN
M1.2	MECHANICAL ROOF PLAN
M2.1	MECHANICAL DETAILS
M3.0	MECHANICAL COMCHECK
M3.1	MECHANICAL COMCHECK

HVAC TESTING AND BALANCING REQUIREMENTS:

THE MECHANICAL CONTRACTOR SHALL EMPLOY THE SERVICES OF AN INDEPENDENT TEST AND BALANCE CONTRACTOR TO BALANCE THE HVAC SYSTEMS IN ACCORDANCE WITH THE DRAWINGS.

HVAC SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH THE LATEST NEBB PROCEDURAL STANDARDS. THE BALANCING CONTRACTOR SHALL HAVE AT LEAST (3) THREE YEARS OF EXPERIENCE IN TESTING AND BALANCING.

THE BALANCING REPORT SHALL CONTAIN ALL INFORMATION REQUIRED BY NEBB PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, AND BALANCING. THE REPORT SHALL INCLUDE, BUT MAY NOT BE LIMITED TO THE FOLLOWING:

A COMPLETE LIST OF BALANCING INSTRUMENTS AND THEIR LATEST CALIBRATION DATES IS TO BE INCLUDED IN THE FINAL REPORT.

BLOWER: MOTOR HP, VOLTAGE, AMPERAGE (NAMEPLATE AND ACTUAL) RPM, BELT MAKE/MODEL, SHEAVE MAKE/MODEL.

UNIT: MAKE/MODEL/SERIAL NUMBER, FILTER TYPE/SIZE/QUANTITY, FINAL BALANCED DAMPER POSITIONS.

AIR INLETS AND OUTLETS: DESIGN/PRELIMINARY/FINAL CFM'S (EXCLUDES RETURN GRILLES).

ALL MANUAL SINGLE BLADE DAMPERS SHALL BE SECURED IN THEIR FINAL BALANCED POSITIONS WITH A SHEET METAL SCREW THRU THE DAMPER HANDLE.

ALL COMPONENTS SHALL BE BALANCED TO WITHIN +/- 10% OF DESIGN CFM REQUIREMENTS.

PROJ # 241503

DAVID W DAY, P.E.
102 Poncho St.
P.O. Box 1640 Anahuac, TX 77514
Telephone 713-927-4470

BRAKES PLUS
SEC OF CANYON CREEK DRIVE & S. 31ST STREET
TEMPLE, TX



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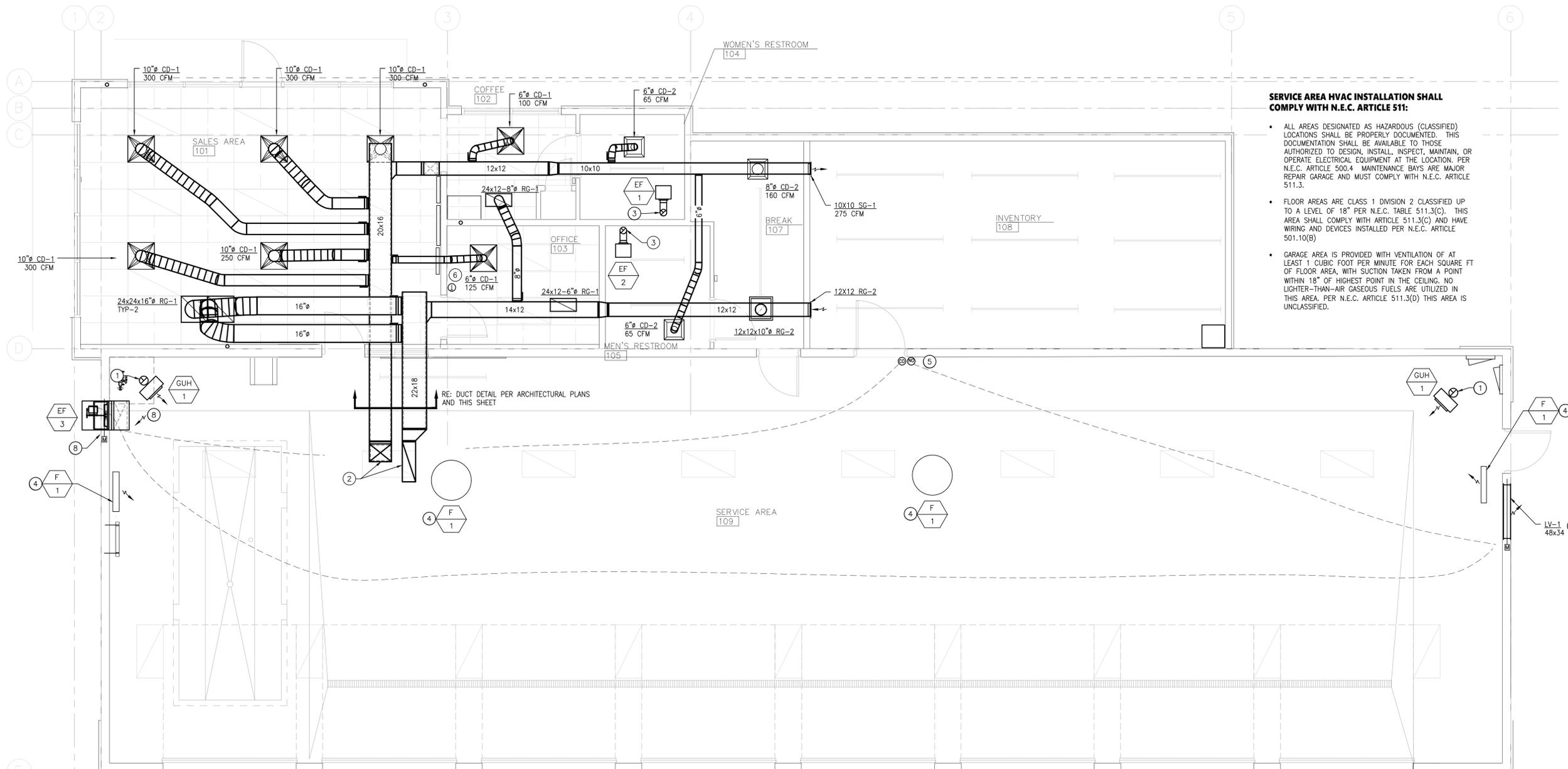
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45 SPLYGLASS DRIVE
LITTLETON, CO 80123
VOICE: 303.988.8025
NORMAN@ARCODEV.COM

SHEET

MO.1
MECHANICAL SPECS,
SCHEDULES AND LEGEND

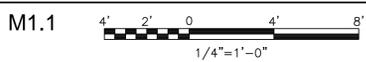


SERVICE AREA HVAC INSTALLATION SHALL COMPLY WITH N.E.C. ARTICLE 511:

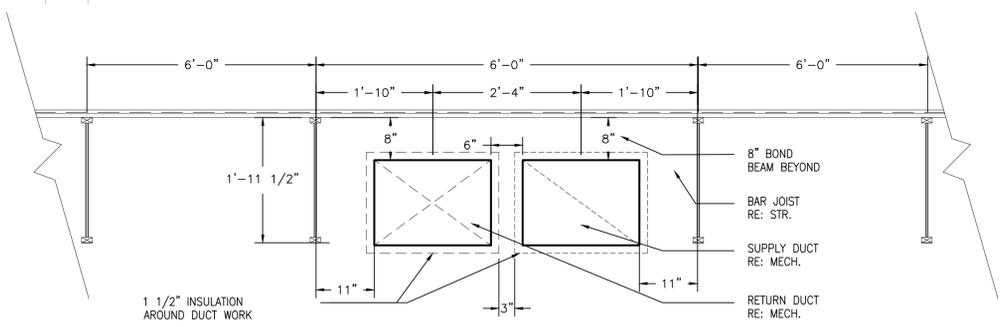
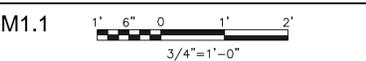
- ALL AREAS DESIGNATED AS HAZARDOUS (CLASSIFIED) LOCATIONS SHALL BE PROPERLY DOCUMENTED. THIS DOCUMENTATION SHALL BE AVAILABLE TO THOSE AUTHORIZED TO DESIGN, INSTALL, INSPECT, MAINTAIN, OR OPERATE ELECTRICAL EQUIPMENT AT THE LOCATION. PER N.E.C. ARTICLE 500.4 MAINTENANCE BAYS ARE MAJOR REPAIR GARAGE AND MUST COMPLY WITH N.E.C. ARTICLE 511.3.
- FLOOR AREAS ARE CLASS 1 DIVISION 2 CLASSIFIED UP TO A LEVEL OF 18" PER N.E.C. TABLE 511.3(C). THIS AREA SHALL COMPLY WITH ARTICLE 511.3(C) AND HAVE WIRING AND DEVICES INSTALLED PER N.E.C. ARTICLE 501.10(B).
- GARAGE AREA IS PROVIDED WITH VENTILATION OF AT LEAST 1 CUBIC FOOT PER MINUTE FOR EACH SQUARE FT OF FLOOR AREA, WITH SUCTION TAKEN FROM A POINT WITHIN 18" OF HIGHEST POINT IN THE CEILING. NO LIGHTER-THAN-AIR GASEOUS FUELS ARE UTILIZED IN THIS AREA. PER N.E.C. ARTICLE 511.3(D) THIS AREA IS UNCLASSIFIED.

RE: DUCT DETAIL PER ARCHITECTURAL PLANS AND THIS SHEET

1 MECHANICAL PLAN



2 DUCTWORK DETAIL



- DRAWING NOTES:**
- FLUE/COMBUSTION AIR INTAKE UP THRU ROOF, PROVIDE WITH MANUFACTURER APPROVED INTAKE CAP TERMINATION.
 - FULL SIZE SA/RA DUCT DOWN FROM RTU. PROVIDE TRANSITIONS AS REQUIRED TO ACCOMMODATE DUCT SIZE AS INDICATED. PROVIDE FLEXIBLE CONNECTIONS AS REQUIRED.
 - EXHAUST DUCT UP THRU ROOF TO APPROVED CAP OR GOOSENECK TERMINATION. SIZE AS INDICATED.
 - FANS SHALL BE EITHER WALL OR CEILING MOUNTED AT 10'-0" AFF. REFERENCE ARCHITECTURAL PLANS FOR FINAL LOCATION. COORDINATE WITH OTHER HVAC/SHOP EQUIPMENT. SEE OWNER FOR EXACT LOCATION.
 - CONTROL WIRE FROM CO/NOX SENSORS BACK TO DETECTION SYSTEMS CONTROL PANEL. LOCATE AND INSTALL THE SENSORS BASED ON MANUFACTURERS INSTALLATION INSTRUCTIONS. COORDINATE FINAL LOCATION FOR CONTROL PANEL(S). PROVIDE 7-DAY, 24 HOUR PROGRAMMABLE THERMOSTAT WITH SPACE SENSOR. THERMOSTAT AND SENSOR LOCATIONS ON WALL TO BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.
 - PROVIDE 7-DAY PROGRAMMABLE T-STAT WITH SPACE SENSOR. BOTH SENSOR AND THERMOSTAT LOCATION SHALL BE COORDINATED WITH BUILDING OWNER.
 - COORDINATE EXTERIOR WALL LOUVER AND EXHAUST FAN WALL OPENING SIZES AND LOCATIONS PER ARCHITECTURAL PLANS FOR EXACT LOCATION AND ELEVATION.
 - PROVIDE 30x12 EXHAUST DUCT FROM EF-3, ROUTE UP INTERIOR WALL TO MIN. 18" BELOW STRUCTURE. PROVIDE HARDWARE MESH SCREEN AT OPENING. COORDINATE OPENINGS W/ ARCH PLANS AND OWNER.

DAVID W DAY, P.E.
 102 Poncho St.
 P.O. Box 1640 Anahuac, TX 77514
 Telephone 713-927-4470

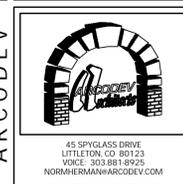
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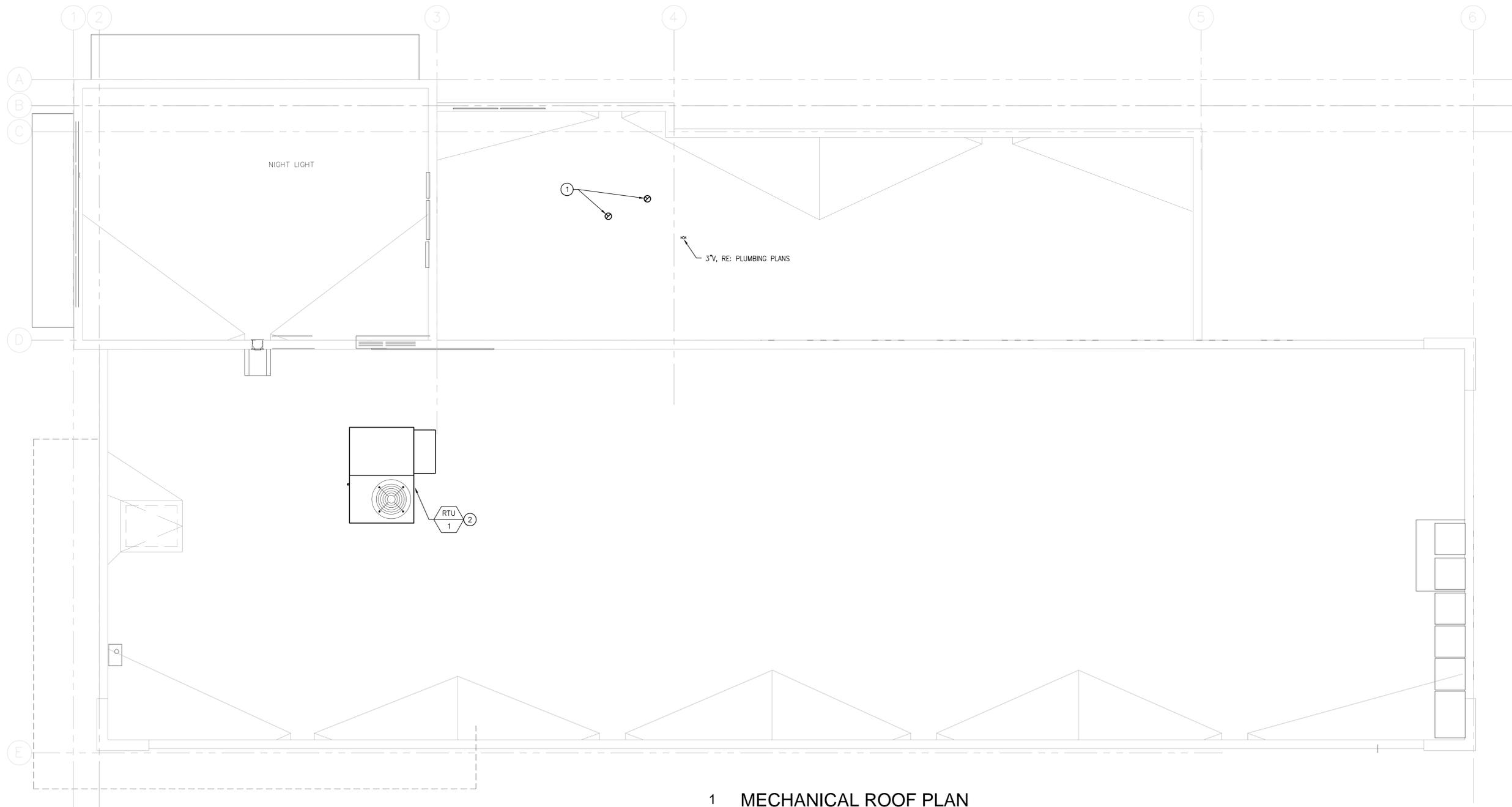
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M1.1
 MECHANICAL PLAN

PROJ # 241503



1 MECHANICAL ROOF PLAN

M1.2 1/4"=1'-0"

DRAWING NOTES:
 ① EXHAUST DUCT FROM RESTROOM BELOW. TERMINATE WITH APPROVED CAP.
 ② NEW ROOFTOP UNIT: MAINTAIN 10'-0" FROM OUTSIDE AIR INTAKE.

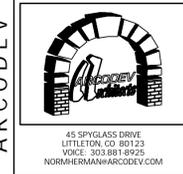
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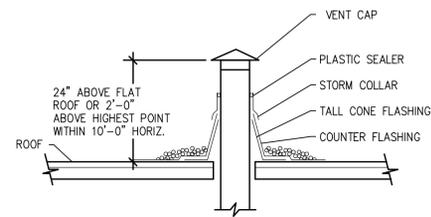


45 SPYGLASS DRIVE
 LITTLETON, CO 80123
 VOICE: 303.881.8925
 NORM@HERMANNARCODEV.COM

SHEET

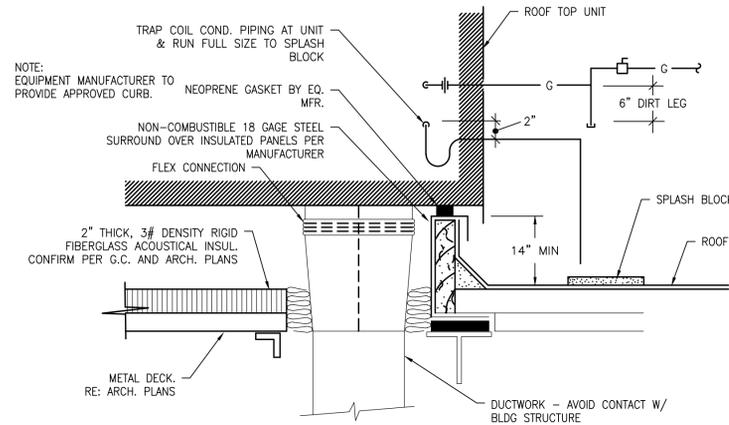
M1.2
 MECHANICAL ROOF PLAN

PROJ # 241503
DAVID W DAY, P.E.
 102 Poncho St.
 P.O. Box 1640 Anahuac, TX 77514
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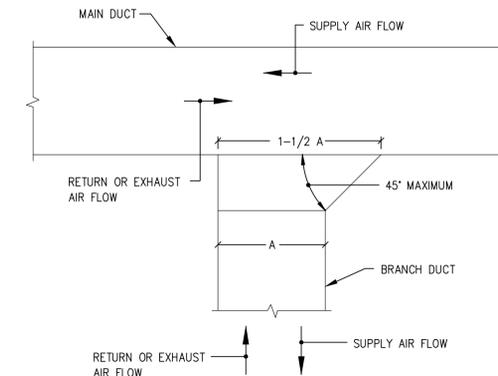
EXHAUST FAN DUCT THRU ROOF DETAIL

NOT TO SCALE



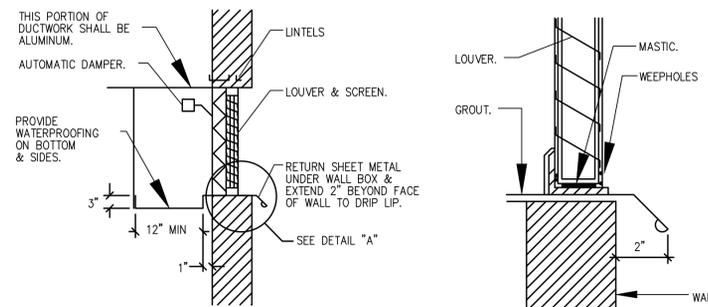
ROOFTOP UNIT INSTALLATION DETAIL

NOT TO SCALE



DUCT TAKE-OFF DETAIL

NOT TO SCALE



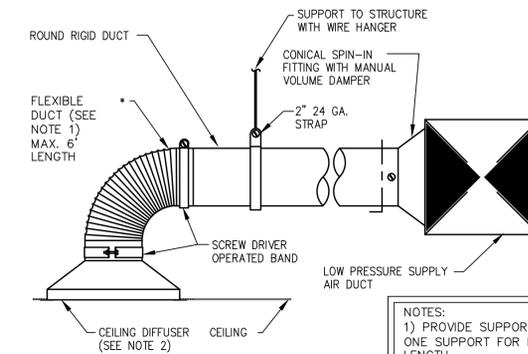
NOTE:
REFER TO MFR'S INSTRUCTIONS
FOR SPECIFIC MOUNTING DETAILS.
COORDINATE WITH
ARCHITECTURAL REQUIREMENTS.

DETAIL A

NOT TO SCALE

WATERTIGHT LOUVER CONNECTION DETAIL

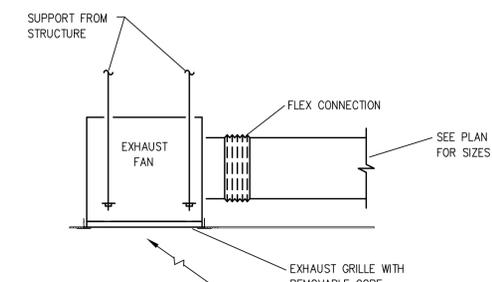
NOT TO SCALE



NOTES:
1) PROVIDE SUPPORT MINIMUM OF
ONE SUPPORT FOR EACH 3'-0" OF
LENGTH
2) SUPPORT DIFFUSER
INDEPENDENT FROM DUCTWORK
WITH WIRE HANGERS WHEN
REQUIRED BY LOCAL CODE.

AIR DEVICE DETAIL

NOT TO SCALE



CEILING EXHAUST FAN DETAIL

NOT TO SCALE

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LITTLETON, CO 80123
VOICE: 303.881.8925
NORMAHERMAN@ARCODEV.COM

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M2.1

MECHANICAL DETAILS

PROJ # 241503

DAVID W DAY, P.E.
102 Poncho St.
P.O. Box 1640 Anahuac, TX 77514
Telephone 713-927-4470

PLUMBING GENERAL NOTES AND SPECIFICATIONS

GENERAL CONSTRUCTION NOTES:

- DRAWINGS ARE MEANT TO SHOW INTENT ONLY, NOT EXACT DETAIL. THESE DRAWINGS ARE A "BUILDERS SET" AND INTENDED FOR THE USE OF AN EXPERIENCED AND WELL QUALIFIED CONTRACTOR WHO MAY INFER REASONABLE AND PROFESSIONAL CONSULTANTS WILL NOT HAVE CONTROL OF AND WILL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK ON THIS PROJECT OR FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK ON THIS SITE, NOR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE INTENT OF THE CONTRACT AND OR THESE CONSTRUCTION DOCUMENTS.

BASIC REQUIREMENTS:

PLUMBING DESIGN SHALL CONFORM TO THE CURRENT INTERNATIONAL PLUMBING CODE. PROJECT SHALL BE COORDINATED WITH THE EXISTING BUILDING SERVICES AND SHALL INCLUDE ALL ITEMS NECESSARY FOR COMPLETE AND FULLY OPERATIONAL TENANT PLUMBING SYSTEMS. MAKE CONNECTIONS TO AND EXTEND SYSTEMS INSTALLED BY OTHERS AND/OR FURNISHED BY OTHERS. PROVIDE ACCESSORIES AND INCIDENTAL ITEMS AS REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM WHETHER OR NOT SPECIFICALLY SPECIFIED AND/OR SHOWN ON THE PLANS.

DO NOT SCALE FROM THESE DRAWINGS. REFER TO ARCHITECTURAL OR CIVIL DRAWINGS BY OTHERS FOR DIMENSIONS AND FOR ESTIMATING DISTANCES. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND SPECIFICATIONS RELATING TO THE JOB WHETHER OR NOT INDICATED ON THESE DRAWINGS. ANY SCALE, DIMENSION OR QUANTITIES SHOWN ON THE DRAWINGS ARE FOR ENGINEERING CALCULATION PURPOSES ONLY. THE PLUMBING CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ESTIMATING AND DETERMINING ALL DISTANCES AND QUANTITIES RELATED TO THE PROJECT. REFER TO ARCHITECTURAL OR CIVIL DRAWINGS BY OTHERS AND VERIFY EXISTING CONDITIONS ON SITE FOR ALL ESTIMATING PURPOSES.

COORDINATE WITH OTHER TRADES FOR A COORDINATED INSTALLATION WITHIN THE AVAILABLE SPACE. WHERE CROWDED CONDITIONS EXIST, PREPARE COORDINATION DRAWINGS SHOWING ALL TRADE CONFLICTS AND SUBMIT TO ARCHITECT FOR APPROVAL AND DIRECTION PRIOR TO ROUGH-IN AND/OR INSTALLATION. RELOCATION OF OUTLETS AND/OR DEVICES MADE PRIOR TO ROUGH-IN SHALL BE DONE AT NO ADDITIONAL COST.

ALL WORK SHALL BE PERFORMED BY PROPERLY LICENSED PLUMBERS OR UNDER THEIR DIRECT SUPERVISION. ALL MATERIALS AND EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE APPLICABLE STANDARDS OF UL AND SHALL BEAR THE UL LABEL AS EVIDENCE THAT THE MATERIAL AND/OR EQUIPMENT MEETS THIS REQUIREMENT.

INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND DETAILS UNLESS OTHERWISE NOTED IN THESE PLANS. IF ANY DISCREPANCIES EXIST CONTACT THE ENGINEER PRIOR TO ORDERING EQUIPMENT AND ROUGH-IN.

ALL EQUIPMENT START UP AND TESTING SHALL BE PERFORMED BY THE EQUIPMENT MANUFACTURER TRAINED SERVICE TECHNICIAN. SUBMIT MANUFACTURER'S LITERATURE (SHOP DRAWINGS) FOR MATERIALS AND EQUIPMENT. SUBMITTAL SHALL INCLUDE EQUIPMENT PERFORMANCE DATA AT ELEVATION AND/OR LOCAL CONDITIONS. EQUIPMENT CUTSHEETS OR CATALOG COPIES ARE NOT ACCEPTABLE. SUBMITTAL SHALL BEAR THE APPROVAL OF THE GENERAL CONTRACTOR FOR COMPLIANCE WITH COORDINATION AND THESE SPECIFICATIONS PRIOR TO SUBMITTAL TO ARCHITECT AND/OR HIS AGENCIES. ANY EQUIPMENT SUBSTITUTED FOR WHAT IS SCHEDULED SHALL BE EQUAL TO THAT SCHEDULED IN CONTROLS, ACCESSORIES, AND PERFORMANCE REGARDLESS OF MANUFACTURER.

FIELD LABEL ALL PLUMBING EQUIPMENT AND PIPING AS INDICATED ON THE PLANS PER PLUMBING AND LOCAL CODE REQUIREMENTS. INDICATE DIRECTION OF FLOW ON PIPING.

TAG ALL VALVES WITH CONSECUTIVE NUMBERING ON PERMANENT HARD PLASTIC OR METAL TAG AND PROVIDE SCHEDULE LISTING ITEMS, AREA SERVED, SIZE AND VALVE TYPE. SUBMIT FINAL VALVE SCHEDULE FOR REVIEW.

PROVIDE EXPANSION LOOPS, SWING JOINTS, OR MECHANICAL EXPANSION COMPENSATING DEVICES AS REQUIRED TO ACCOUNT FOR THERMAL EXPANSION OF ALL PIPING SYSTEMS. EXPANSION SYSTEM SIZING SHALL BE IN ACCORDANCE WITH MATERIALS DATA SHEETS AND MANUFACTURER RECOMMENDATIONS.

INSTALL ALL EQUIPMENT PER MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS. IF PLAN DIFFERS FROM THESE INSTRUCTIONS THEN NOTIFY ENGINEER PRIOR TO ROUGH-IN. MANUFACTURERS INSTRUCTIONS SHALL PREVAIL. SPECIAL ATTENTION MUST BE PAID TO GAS FIRED EQUIPMENT FLUE/GA LENGTHS, SIZES, AND MATERIAL.

BASIC MATERIALS

PLUMBING CONTRACTOR TO PROVIDE PLUMBING SYSTEM CONTROLS, CONTROLLERS, CONTROL TRANSFORMERS, DISCONNECTS, STARTERS, LISTED CONTROL WIRING, LOCATED ELECTRICAL WIRING, AND ALL WORK NECESSARY FOR A COMPLETE AND OPERATIONAL PLUMBING SYSTEM. ALL ELECTRICAL ITEMS SHALL BE COORDINATED WITH ELECTRICAL DRAWINGS AND ELECTRICAL SUB-CONTRACTOR FOR INSTALLATION.

PROVIDE SUPPLEMENTAL STEEL AND SUPPORTS AS REQUIRED FOR INSTALLATION OF PLUMBING MATERIALS, EQUIPMENT, AND APPARATUS.

ALL WORK IN FINISHED AREAS SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED AS EXPOSED ON THE PLANS. PRIOR TO THE INSTALLATION OF ANY EXPOSED WORK THIS CONTRACTOR SHALL VERIFY AND OBTAIN ARCHITECTURAL APPROVAL OF LOCATION AND EXTENT.

PROVIDE PRESSURE REDUCING VALVE ASSEMBLY AT BUILDING WATER SERVICE ENTRY WHERE PRESSURE EXCEEDS 65 PSI. PRESSURE REDUCING VALVE TO BE SET TO 65 PSI.

PROVIDE SANITARY SEWER SYSTEM CLEANOUTS AS REQUIRED BY LOCAL CODES. PROVIDE BRANCH SHUT-OFF VALVES ON ALL WATER LINES EXTENDING FROM MAINS. THE CONTRACTOR SHALL LOCATE AND FURNISH FOR INSTALLATION BY OTHERS, ALL ACCESS PANELS AS REQUIRED FOR ACCESS TO VALVES, MOTORS, ETC. AND THE PROPER SERVICING OF EQUIPMENT AND LINES INSTALLED UNDER THIS CONTRACT.

PIPING

- SANITARY, VENT, AND STORM PIPING ABOVE GRADE SHALL BE CAST IRON NO-HUB PIPE AND FITTINGS, MANUFACTURED TO CISPI 310 BEARING THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE AND BE LISTED BY NSF INTERNATIONAL. COUPLINGS FOR JOINING CAST IRON NO-HUB PIPE SHALL MEET THE REQUIREMENTS OF CISPI 310 AND LISTED BY NSF INTERNATIONAL TO THE CISPI 310 STANDARD. IF HEAVY DUTY COUPLINGS ARE REQUIRED: HUSKY 2000, CLAMP ALL 80, OR MISSION 80 COUPLINGS WITH CONSIDERATION TO USE: HUSKY 4000 OR CLAMP ALL 125. INSTALLATION IN COMPLIANCE TO CISPI HANDBOOK.
- SANITARY, VENT, AND STORM PIPING ABOVE AND BELOW GRADE SHALL BE SOLID CORE PVC SCHEDULE 40 OR 80 PIPE AND SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D 1785 AND ASTM D 2665. INJECTION MOLDED PVC DWV FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED PVC DWV FITTINGS SHALL CONFORM TO ASTM F 1866. PIPE AND FITTINGS SHALL BE MANUFACTURED AS A SYSTEM AND BE THE PRODUCT OF ONE MANUFACTURER. ALL PIPE AND FITTINGS SHALL BE MANUFACTURED IN THE UNITED STATES. ALL SYSTEMS SHALL UTILIZE A SEPARATE WASTE AND VENT SYSTEM. PIPE AND FITTINGS SHALL CONFORM TO NSF INTERNATIONAL STANDARD 14. INSTALLATION SHALL COMPLY WITH THE LATEST INSTALLATION INSTRUCTIONS PUBLISHED BY MANUFACTURER AND SHALL CONFORM TO ALL APPLICABLE PLUMBING, BUILDING, AND FIRE CODE REQUIREMENTS. BURIED PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D 2321 AND ASTM F 1668. SOLVENT CEMENT JOINTS SHALL BE MADE IN A TWO STEP PROCESS WITH PRIMER CONFORMING TO ASTM F 656 AND SOLVENT CEMENT CONFORMING TO ASTM D 2564. THE SYSTEM SHALL BE PROTECTED FROM CHEMICAL AGENTS, FIRE STOPPING MATERIALS, THREAD SEALANT, PLASTICIZED VINYL PRODUCTS, OR OTHER AGGRESSIVE CHEMICAL AGENTS NOT COMPATIBLE WITH PVC COMPOUNDS. SYSTEMS SHALL BE HYDROSTATICALLY TESTED AFTER INSTALLATION.
- DOMESTIC WATER PIPING ABOVE GRADE: ASTM B 88, TYPE L COPPER WITH SOLDERED OR MECHANICALLY CRIMPED JOINTS (PRO PRESS)
- DOMESTIC WATER PIPING ABOVE GRADE: SOCKET WELDED CPVC TUBE AND FITTINGS PER ASTM D 2846.
- DOMESTIC WATER PIPING ABOVE GRADE: UPONOR AQUAPEX PIPING WITH PROPEX FITTINGS FOR ALL BRANCH CONNECTIONS AND TERMINATIONS (OR REHAU EQUIVALENT). DCW TO BE BLUE PIPE, DHW TO BE RED PIPE, AND DHWR TO BE CLEAR PIPE.
- DOMESTIC WATER PIPING BELOW GRADE SHALL BE TYPE K COPPER WITH SILVER SOLDERED JOINTS.
- CONDENSATE DRAIN PIPING SHALL BE TYPE M COPPER WITH SOLDERED JOINTS, OR CPVC IF ALLOWED BY LOCAL AUTHORITY HAVING JURISDICTION.

- ANY PIPING SYSTEM LOCATED IN A RETURN AIR PLENUM SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NO MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
- FIRE STOP ALL PIPING MATERIALS PASSING THROUGH FIRE RATED STRUCTURES OR FIRE RATED ASSEMBLIES IN ACCORDANCE WITH THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. USE CURRENTLY LISTED U.L. CLASSIFIED PRODUCTS, TESTED BY ASTM E814. USE FOR ALL APPLICABLE PIPE PENETRATIONS THROUGH FIRE RATED FLOORS, WALLS, OR FLOOR CEILING ASSEMBLIES IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
- COMPRESSED AIR PIPING: 1" AND SMALLER: TYPE K OR L (TYPE A OR B), COPPER TUBE; WROUGHT-COPPER FITTINGS; COPPER PRESSURE-SEAL-JOINT FITTINGS; COPPER-PUSH FITTINGS; AND BRAZED JOINTS.
- COMPRESSED AIR PIPING: 2" DOWN TO 1-1/4" SHALL BE : TYPE K OR L (TYPE A OR B), COPPER TUBE; WROUGHT-COPPER FITTINGS; COPPER PRESSURE-SEAL-JOINT FITTINGS; AND BRAZED JOINTS.
- COMPRESSED AIR PIPING: 2-1/2" TO 4" SHALL BE TYPE K OR L (TYPE A OR B), COPPER TUBE; WROUGHT-COPPER FITTINGS; COPPER PRESSURE-SEAL-JOINT FITTINGS; AND BRAZED JOINTS.
- COMPRESSED AIR DRAIN PIPING SHALL BE TYPE M (TYPE C) COPPER TUBE; WROUGHT-COPPER FITTINGS, AND BRAZED OR SOLDERED JOINTS.

INSULATION

- WATER PIPING IN UNCONDITIONED SPACE AND EXTERIOR WALLS SHALL BE 2" FIBERGLASS INSULATION.
- HOT WATER PIPING 2" OR LESS SHALL BE 1-INCH FIBERGLASS INSULATION. HOT WATER PIPING GREATER THAN 2-INCHES SHALL BE 1 1/2" FIBERGLASS INSULATION. RUNOUTS, NOT EXCEEDING 12 FEET, UP TO 2-INCHES SHALL BE 1/2-INCH THICK FIBER GLASS INSULATION WITH AN ALL-SERVICE JACKET.
- STORM DRAIN PIPING ABOVE GRADE SHALL BE 1/2-INCH THICK FIBER GLASS INSULATION WITH AN ALL-SERVICE JACKET.
- HORIZONTAL SANITARY AND STORM PIPING EXPOSED TO OUTDOOR TYPE AMBIENT CONDITIONS INCLUDING COVERED PARKING AND CRAWL SPACES SHALL BE HEAT-TRACED AND INSULATED WITH 1-INCH FIBERGLASS INSULATION.
- VERTICAL SANITARY AND STORM PIPING EXPOSED TO OUTDOOR TYPE AMBIENT CONDITIONS INCLUDING COVERED PARKING AND CRAWL SPACES SHALL BE INSULATED WITH 1-INCH FIBERGLASS INSULATION.
- CONDENSATE DRAIN PIPING SHALL BE 1/2-INCH THICK INSULATION WITH AN ALL-SERVICE JACKET.
- COLD WATER DISTRIBUTION PIPING SHALL NOT BE INSULATED UNLESS OTHERWISE NOTED.
- COLD OR HOT WATER PIPING IN A WALL, CEILING, OR FLOOR THAT IS ADJACENT TO AN UNCONDITIONED SPACE SHALL HAVE 1-INCH THICK INSULATION. THE PIPING SHALL ALSO BE INSTALLED TO THE WARM SIDE OF THE BUILDING INSULATION.
- HOT WATER PIPING LESS THAN 1-1/2" SHALL BE 1-INCH FIBERGLASS INSULATION. HOT WATER PIPING 1-1/2 TO 4" SHALL BE 1 1/2" FIBERGLASS INSULATION.

PLUMBING EQUIPMENT/FIXTURES

- FURNISH AND INSTALL PLUMBING FIXTURES AS SCHEDULED ON THE PLANS.
- PROVIDE CHARCOAL PLATED ANGLE STOPS AND ESCUTCHEON PLATES ON ALL EXPOSED FIXTURE RUNOUTS.
- PROVIDE INSULATION AND ROUGH IN AS REQUIRED FOR COMPLIANCE WITH ADA REQUIREMENTS.
- PROVIDE ALL ACCESSORIES AND SPECIALTY ITEMS AS REQUIRED FOR A COMPLETE FIXTURE INSTALLATION.

REDUCED PRESSURE BACKFLOW PREVENTER

FURNISH AND INSTALL LEADFREE REDUCED PRESSURE BACKFLOW PREVENTER FOR THE PRIMARY DOMESTIC COLD WATER SERVICE IN ACCORDANCE WITH STATE, LOCAL, AND JURISDICTIONAL WATER DISTRICT REQUIREMENTS. FURNISH AND INSTALL REDUCED PRESSURE BACKFLOW PREVENTER FOR MECHANICAL EQUIPMENT REQUIRED OF THIS OR OTHER SECTIONS OF THESE SPECIFICATIONS.

ELECTRIC WATER HEATERS

FURNISH AND INSTALL A GLASS LINED ELECTRIC WATER HEATER AS SCHEDULED ON THE PLANS. FURNISH HEATER WHICH ARE UL LABELED AND MEET THE REQUIREMENTS OF LOCAL MUNICIPALITIES. WATER HEATER LOCATED IN CEILING SHALL BE PROVIDED WITH 2 1/2" DRAIN PAN. TERMINATE DRAIN TO NEAREST FLOOR DRAIN, FLOOR SINK OR LAV TRAP.

ABBREVIATIONS

(D)	DEMO
(E)	EXISTING
(N)	NEW
AAV	AIR ADMITTANCE VALVE
AD	AREA DRAIN
AF	ABOVE FINISH FLOOR
AFF	AIR HANDLING UNIT
AHU	BOILER
B	BASEBOARD
BB	BOOSTER FAN
BFP	BACKFLOW PREVENTER
BT	BATH TUB
BV	BALL VALVE
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CO	CHILLER
COTG	CLEANOUT TO GRADE
CU	CONDENSING UNIT
CV	CHECK VALVE
CUH	CABINET UNIT HEATER
DCW	DOMESTIC COLD WATER
DF	DRINKING FOUNTAIN
DHW	DOMESTIC HOT WATER
DSN	DOWN SPOUT NOZZLE
EC	ELECTRICAL CONTRACTOR
ECO	END OF LINE CLEANOUT
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EW	ELECTRIC WATER COOLER
EWV	ELECTRIC WATER HEATER
FURN	FURNACE
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FS	FLOOR SINK
G	GAS
GC	GENERAL CONTRACTOR
GM	GAS METER
GPM	GALLONS PER HOUR
GF	GALLONS PER MINUTE
GH	GAS UNIT HEATER
GUH	GREASE WASTE
GW	GAS WATER HEATER
GWH	GAS WATER HEATER
HB	HOSE BIB
HP	HEAT PUMP
HX	HEAT EXCHANGER
IM	ICE MAKER BOX
LAV	LAVATORY
LS	LAUNDRY SINK
MAU	MAKE-UP AIR UNIT
MC	MECHANICAL CONTRACTOR
MEF	MEASURE FLOW
NC	NOT IN CONTRACT
NO	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
ORD	OVER FLOOR ROOF DRAIN
PC	PLUMBING CONTRACTOR
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR REGISTER
RAR	RETURN AIR REGISTER
RD	ROOF DRAIN
RH	RADIANT HEATER
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SAR	SUPPLY AIR REGISTER
SF	SUPPLY FAN
SFT	SERIES FAN TERMINAL
SH	SHOWER
SK	SINK
SOI	SAND/OIL INTERCEPTOR
SS	SERVICE SINK
T&P	TEMPERATURE & PRESSURE
TD	TRENCH DRAIN
TYP	TYPICAL
UR	URINAL
VAV	VARIABLE AIR VOLUME
VV	VARI TRAC
WB	WASHER BOX
WCO	WALL CLEANOUT
WH	WALL HYDRANT

PLUMBING LEGEND

----	CND	CONDENSATE
----	DCW	DOMESTIC COLD WATER
----	120"	DOMESTIC HOT WATER
----	120"R	DOMESTIC HOT WATER RECIRC
----	GW	GREASE WASTE
----	RD	ROOF DRAIN
----	ORL	OVERFLOW ROOF DRAIN
----	SOI	SAND OIL
----	SS	SANITARY SEWER
----	V	VENT
----	(A)XX	TYPICAL PIPE ABOVE/ON ROOF
----	(B)XX	TYPICAL PIPE BELOW/UNDERGROUND
----	(E)XX	TYPICAL PIPE EXISTING

VALVES

○	BALL VALVE
⊗	GATE VALVE
∇	CHECK VALVE
⊞	PRESSURE REDUCING VALVE (PRV)
⊞	MEASURE FLOW
⊞	TEE UP
⊞	TEE DOWN
○	ELBOW UP
○	ELBOW DOWN

MISC.

⊙	POINT OF CONNECTION (POC)
⊞	DEMO

FIXTURES

	WALL CLEAN OUT
⊙	FLOOR CLEANOUT
⊙	AREA DRAIN
⊙	FLOOR DRAIN
⊙	FLOOR SINK FULL COVER
⊙	GAS METER
⊙	GAS METER
⊙	HOSE BIB
⊙	BATH TUB/MOP SINK
⊙	SINK
⊙	2-COMPARTMENT SINK
⊙	DRINKING FOUNTAIN/URINAL
⊙	WASHER BOX
⊙	ICE BOX
⊙	WATER CLOSET STACK
⊙	WATER CLOSET

GENERAL NOTES

- ALL ITEMS CONNECTING TO POTABLE WATER SHALL MEET THE LEAD FREE STANDARD OF .25% OR LESS LEAD.
- PLUMBING PLANS REFERENCE FINISHED FLOOR TO FINISHED FLOOR ABOVE. SANITARY SHOWN IS FOR FIXTURES ABOVE UNLESS NOTED OTHERWISE.
- FIELD VERIFY ALL ROUTING OF PLUMBING LINES WITH OTHER TRADES. FIELD ADJUST ROUTING ACCORDINGLY TO MAKE SYSTEM WORK WITH OTHER TRADES.
- PROVIDE WATTS MMV ASSE1070 MIXING VALVE AT ALL PUBLIC FIXTURES AS REQUIRED PER LOCAL CODE.
- PC TO PROVIDE VACUUM BREAKERS AT LOCATIONS WHERE HOSES AND NOZZLES ARE USE, I.E. JANITOR SINKS, BEAUTY SINKS, KITCHEN SPRAYERS, DISHWASHERS, AND BATHS.
- ALL DRAINAGE LINES 2-1/2" AND UNDER TO BE SLOPED AT MINIMUM 1/4" PER FOOT, AND 3" AND OVER TO BE SLOPED AT MINIMUM 1/8" PER FOOT UNLESS NOTED OTHERWISE.
- START TRENCHING FOR NEW SANITARY LINE AT FURTHEST FIXTURE (HIGHEST POINT IN SYSTEM) FROM CIVIL CONNECTION POINT TO BUILDING.
- FIELD ROUTE ALL CONDENSATE LINES, T&P VALVES, AND DRAIN VALVES FROM MECHANICAL AND PLUMBING EQUIPMENT TO SANITARY SEWER RECEPTOR OR STORM/GRADE PER LOCAL CODE AND JURISDICTION.

PLUMBING FIXTURE SCHEDULE

TAG	ADA	DESCRIPTION	CONNECTIONS				FIXTURE		MODEL NAME	MODEL #	FLOW RATE	DIMENSIONS	MOUNTING	RIM HEIGHT	FINISH	MISC.	REMARKS
			DCW	DHW	WASTE	VENT	MANUFACTURER	CADET PRO									
WC-1	YES	WATER CLOSET-TANK OPEN FRONT LESS COVER	1/2"	3"	2"	AMER. STND.	AMER. STND.	CADET PRO	21AA.104	1.28 GPF	12" R1/2-1/8" TRAP	FLOOR	16-1/2"	VITREOUS CHINA	ELONGATED		
LAV-1	YES	WALL HUNG FAUCET	1/2"	1/2"	1-1/2"	2"	AMER. STND.	LUCERNE	5901.110	0.5 GPM	26-1/2"x16-1/4" DECK MOUNT	WALL HANGER	31" TO 34" TO RIM	VITREOUS CHINA	STAINLESS HINGES	6W, WB	
SS-1	NO	SERVICE SINK FAUCET	1/2"	3"	2"	MOEN	ELKAY	SERVICE SINK MECHANICAL	14-1C22X22-OX	2.0 GPM	22"x22"x14"	FLOOR/WALL	4" CENTERS	POLISHED CHROME	FRONT OVERFLOW SINGLE HOLE, 4" CENTERS	PS	
TD-1	-	MANUAL FOOT PEDAL VALVE	1/2"	1/2"	4"	ZURN	ZURN	FOOT VALVE	28500-XL	2.2 GPM	DECK MOUNT	8" CENTERS	-	CHROME PLATES	ADJ. ARM, HOT/COLD PADDLE	**	
WB-1	-	TRENCH DRAIN WALL BOX	1/2"	-	-	ZURN	SIoux CHIEF	-	286	-	80-0" LENGTH	FLOOR	-	W/DGE (TRAFFIC RATED) GRATES	RECESSED WALL BOX	W/WATER HAMMER ARRESTOR	
HB-1	N	INTERIOR WALL HYDRANT	3/4"	-	-	WOODFORD	ANTI-SIPHON	MODEL.101	696	-	696-F FRAME	WALL	-	VARIES W/ WALL DEPTH	INTERIOR ONLY	24" AFG	
EWG-1	Y	B-LEVEL WALL HANGER	1/2"	-	2"	2"	ELKAY	EZH20	EZ5TL8WSK	36" WIDE	WALL	ADA	STAINLESS STEEL	BARRIER FREE	W/ BOTTLE FILLER	6W, 7	
RD-1	-	ROOF DRAIN	-	-	-	ZURN	SINGLE	2122	2100	-	FLOOR	DURA COATED	CARRIER ONLY	FLASH CLAMP/GRAVEL GUARD	IF REQUIRED		
ORD-1	-	OVERFLOW ROOF DRAIN	-	-	-	ZURN	-	2100	2100	15" DIA	ROOF/EXTERIOR	-	DURA COATED CAST IRON	FLASH CLAMP/GRAVEL GUARD	-		
DSN-1	-	DOWNSPOUT NOZZLE	-	-	-	ZURN	-	2199	2199	-	EXTERIOR	-	NICKEL BRONZE	-	-		
AD-1	-	AREA DRAIN	-	-	-	ZURN	MEDIUM DUTY	Z-507-P	2-550-P	-	7" ROUND	FLOOR	-	CAST IRON BODY	-		
FD-1	-	FLOOR DRAIN	-	-	-	ZURN	-	2-550-P	2-550-P	-	5-1/2" ROUND	FLOOR	-	NICKEL BRONZE FINISH, STAINLESS STRAINER	W/ TRAP PRIMER CONNECTION		

ALTERNATE MFG: AMERICAN STANDARD, CRANE, DELTA, ELKAY, HAWS, HALSEY TAYLOR, J.R.SMITH, KOHLER, LASCO, MOEN, SIoux CHIEF, STING RAY, SYMMONS, TOTO, WADE, ZURN.

BS-BASKET STRAINER	GS-GRID STRAINER	WB-WALL BRACKET	GENERAL NOTES:
DS-DOME STRAINER	PS-POP UP STRAINER	TP-ASSE 1018 OR 1044 TRAP PRIMER	1. ALL PUBLIC SINKS TO HAVE OPEN GRID STRAINER.
ES-ENAMEL COATING	SS-STAINLESS STEEL	6W-6" WALL REQ.	2. ALL NON-PUBLIC SINKS TO HAVE POP-UP STRAINERS.

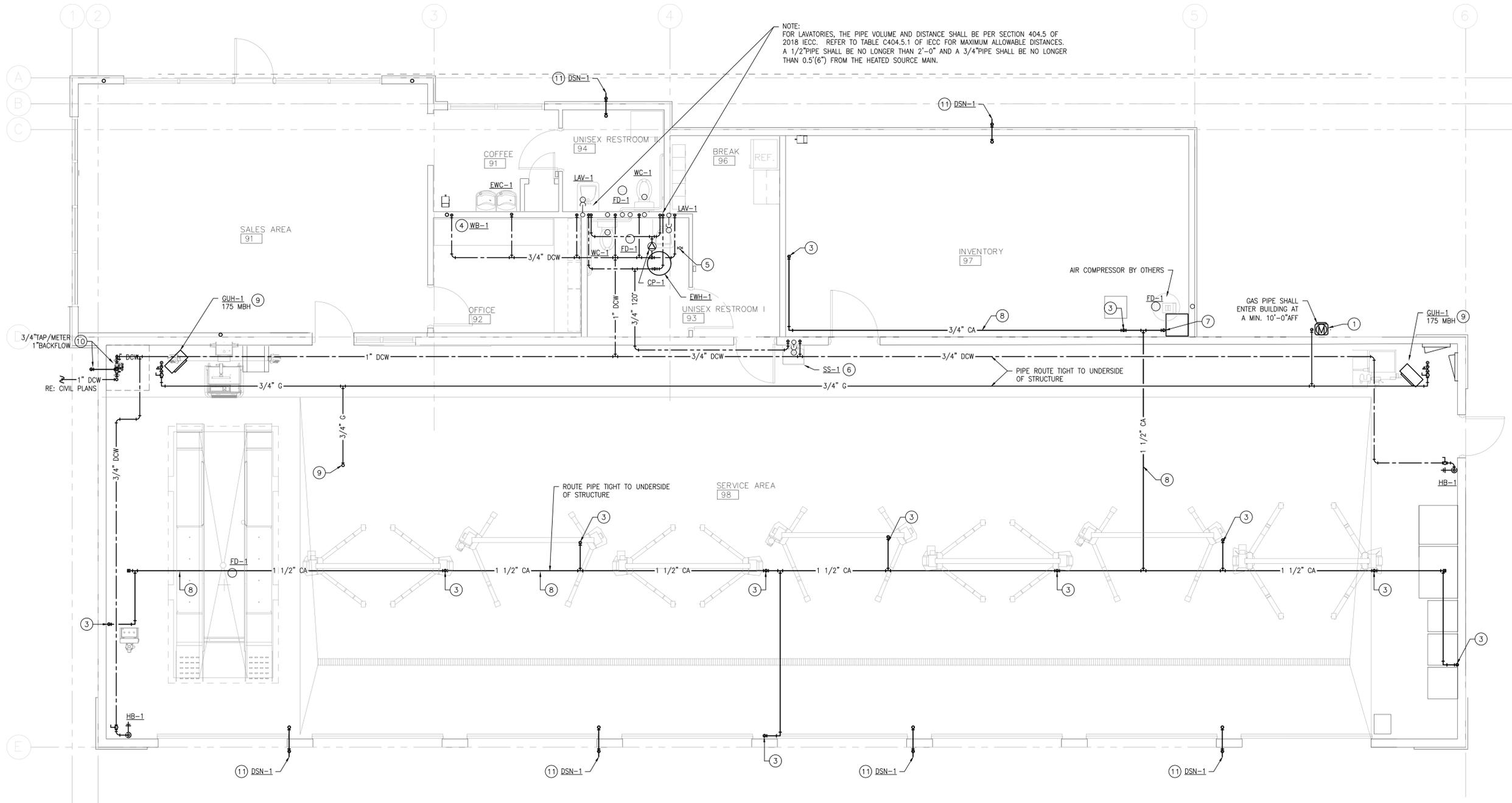
**NOTE: PROVIDE 1/2" DCW/DHW DOWN WALL TO FOOT PEDAL CONNECTIONS AS PER MANUFACTURERS INSTRUCTIONS

IPC WASTE AND WATER FIXTURE UNIT CALCULATION

PROJECT: BRAKES PLUS - NORMAN OK		CODE: 2018 IPC		DATE: 5/10/2024								
BUILDING: 1												
FIXTURE TOTAL	FIXTURE TYPE	OCC.	SUPPLY TYPE	WATER FIXTURE UNITS					WASTE FIXTURES UNITS		REMARKS	
				COLD WATER	COLD TOTAL	HOT WATER	HOT TOTAL	COMBINED	FIXTURE VALUES	TOTAL VALUES		
2	HOSE BIBBS	PRIVATE	1/2" VALVE	1.00	2.00	0.00	0.00	1.00	2.00	0.00	0.00	
1	DRINKING FOUNTAIN	OFFICES	3/8" VALVE	0.25	0.3	0.00	0.25	0.3	0.50	0.5		
2	LAVATORY	PUBLIC	FAUCET	1.50	3.0	1.50	3.0	2.00	4.0	1.00	2.0	
1	SERVICE SINK	OFFICES	FAUCET	2.25	2.3	2.25	2.3	3.00	3.0	2.00	2.0	
2	WATER CLOSET	PUBLIC	FLUSH TANK	5.00	10.0	0.00	5.00	10.0	4.00	8.0		
TOTAL FIXT. UNITS												
					17.50		5.25		19.25		12.50	TOTAL FIXTURE UNITS
											4"	BUILDING MAIN SIZE
											1"	BUILDING MAIN SLOPE
PIPE SIZE												
TAP & METER		3/4"										
BFP & BLDG MAIN		1"		6.00		9.00						

ELECTRIC WATER HEATER SCHEDULE

PLAN MARK



NOTE:
FOR LAVATORIES, THE PIPE VOLUME AND DISTANCE SHALL BE PER SECTION 404.5 OF 2018 IECC. REFER TO TABLE C404.5.1 OF IECC FOR MAXIMUM ALLOWABLE DISTANCES. A 1/2\"/>

DRAWING NOTES:

- 1) GAS METER: SIZING BASED ON 175'-0" AT 2 PSI GAS PRESSURE. TOTAL CONNECTED GAS LOAD = 480 MBH. CONFIRM GAS PRESSURE WITH LOCAL GAS COMPANY SERVICE.
- 2) 3/4" G UP THRU ROOF FOR RTU-1, 130 MBH
- 3) 3/4" CA DROP, TERMINATE PER DETAIL. CONFIRM HEIGHT REQUIREMENT WITH EQUIPMENT SERVED. CONTRACTOR TO VERIFY SIZE IS ADEQUATE FOR EQUIPMENT USE.
- 4) 1/2" DCW DN IN WALL TO RECESSED WALL OUTLET VALVE BOX, PROVIDE W/ INLINE BACKFLOW PREVENTER. ROUGH-IN FOR COFFEE MAKER.
- 5) 3" V UP TO 3" VIR.
- 6) 3/4" DCW/DHW DN AT WALL, OFFSET 1/2" DCW/DHW TO FAUCET AND 1/2" DCW/DHW TO FOOT PEDALS.
- 7) COMPRESSED AIR MAIN FROM COMPRESSOR OUTLET. INSTALL PER MANUFACTURERS INSTRUCTIONS. PROVIDE ONE DISCONNECT AT AIR COMPRESSOR.
- 8) SLOPE COMPRESSED AIR DOWN IN DIRECTION OF SLOPE AT 1/8" PER FOOT, TYPICAL.
- 9) 3/4" G UP THRU ROOF.
- 10) 1" LEADFREE DOMESTIC WATER BACKFLOW DEVICE, FEBCO LF825Y OR EQUAL. RELIEF DRAIN PIPING FROM AIR GAP FITTING TO TERMINATE OUTDOORS. DISCHARGE MIN 6" AFG, TURN DOWN TO FINISHED GRADE. TERMINATION SHALL INCLUDE STAINLESS STEEL INSECT SCREEN.
- 11) 3" RD/ORD FROM ABOVE TO NEAREST PILASTER AND DOWN. EXTEND TO EXTERIOR WALL, TERMINATE W/ DSN-1 AT MIN 12" AFG.

GENERAL NOTES:

- 1. PROVIDE TRAP PRIMERS ON ALL FLOOR DRAINS, RE: DETAIL ON SHEET P3.1
- 2. PAINT ALL EXPOSED GAS PIPING TO MATCH, PER ARCH. PLANS.

1 PLUMBING PLAN
P1.1
4' 2' 0 4' 8'
1/4"=1'-0"

DAVID W DAY, P.E.
102 Poncho St.
P.O. Box 1640 Anahuac, TX 77514
Telephone 713-927-4470

BRAKES PLUS
SEC OF CANYON CREEK DRIVE & S. 31ST STREET
TEMPLE, TX.



ARCHITECT OF RECORD

REVISION	DATE	COMMENTS
	08/30/24	PERMIT

ARCODEV JOB #:
CLIENT JOB #:
DRAWN BY:
CHECKED BY:
DATE OF ISSUE:

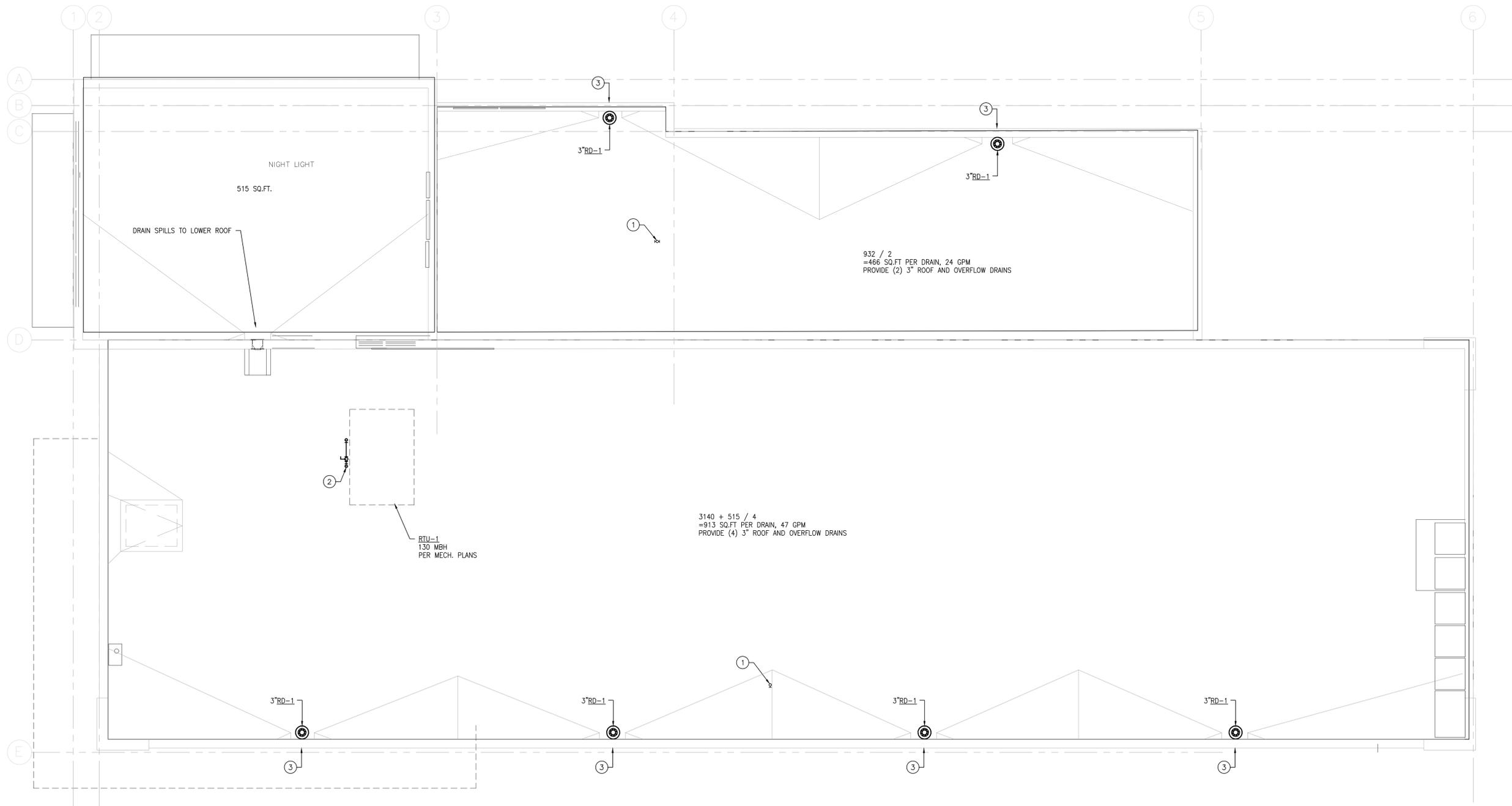


45 SPYGLASS DRIVE
LITTLETON, CO 80123
VOICE: 303.881.8925
NORMAN@ARCODEV.COM

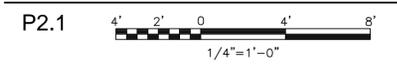
SHEET

P1.1
PLUMBING PLAN

PROJ # 241503



1 PLUMBING ROOF PLAN



- DRAWING NOTES:**
- ① 3" PLUMBING VENT UP THRU ROOF FROM BELOW, RE: PLUMBING PLANS.
 - ② GAS PIPING UP FROM BELOW, ROUTE AND TERMINATE W/ SHUT-OFF VALVE, PRV AND DIRT LEG AT ROOFTOP UNIT. PRV SHALL BE CAPABLE OF REDUCING FROM 2 PSI GAS PRESSURE TO 7"W.W. AT MBH AS INDICATED.
 - ③ OVERFLOW SCUPPER, SIZE PER ARCHITECTURAL PLANS.

BRAKES PLUS
 SEC OF CANYON CREEK DRIVE & S. 31ST STREET
 TEMPLE, TX.



ARCHITECT OF RECORD

REVISION	DATE	COMMENTS
	08/30/24	PERMIT

ARCODEV JOB #:
 CLIENT JOB #:
 DRAWN BY:
 CHECKED BY:
 DATE OF ISSUE:



45 SPYGLASS DRIVE
 LITTLETON, CO 80123
 VOICE: 303.881.8925
 NORMAHERMAN@ARCODEV.COM

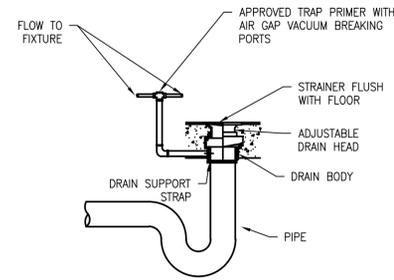
SHEET

P2.1

PLUMBING ROOF PLAN

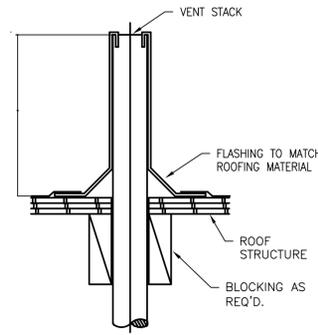
PROJ # 241503

DAVID W DAY, P.E.
 102 Poncho St.
 P.O. Box 1640 Anahuac, TX 77514
 Telephone 713-927-4470



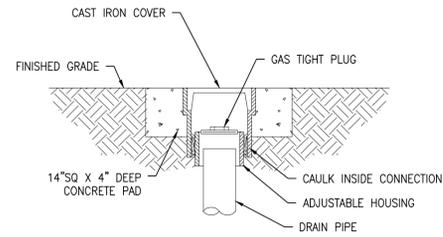
FLOOR DRAIN W/ TRAP PRIMER DETAIL

NOT TO SCALE



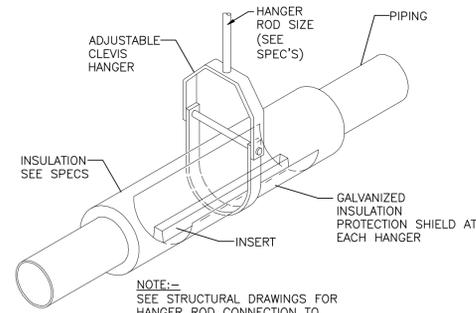
PIPE THRU ROOF DETAIL

NOT TO SCALE



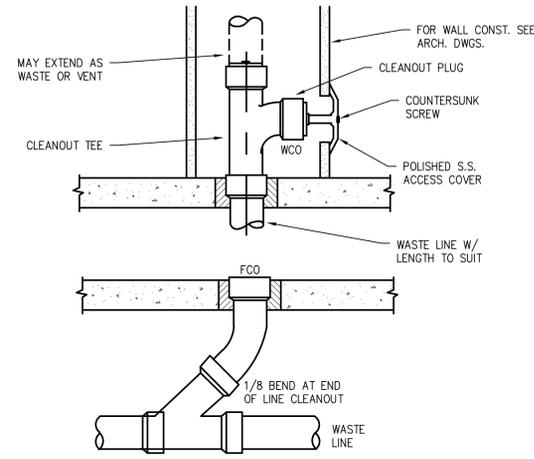
OUTSIDE CLEANOUT TO GRADE

NOT TO SCALE



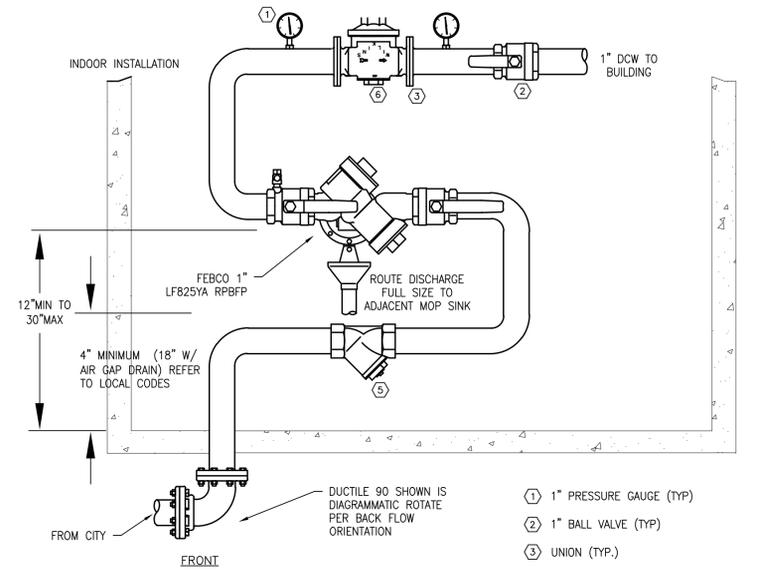
PIPE HANGER AND INSULATION DETAIL

NOT TO SCALE



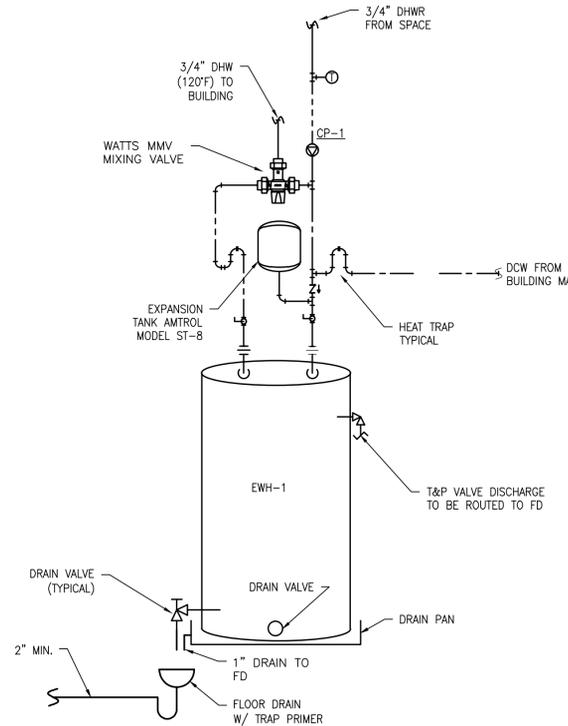
CLEANOUT DETAILS

NOT TO SCALE



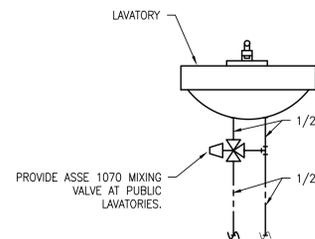
DOMESTIC WATER ENTRY BACKFLOW DETAIL

NOT TO SCALE



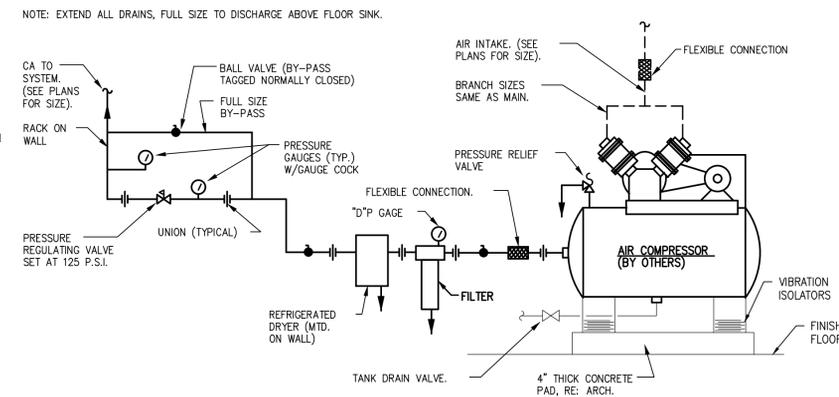
ELECTRIC WATER HEATER DETAIL

NOT TO SCALE



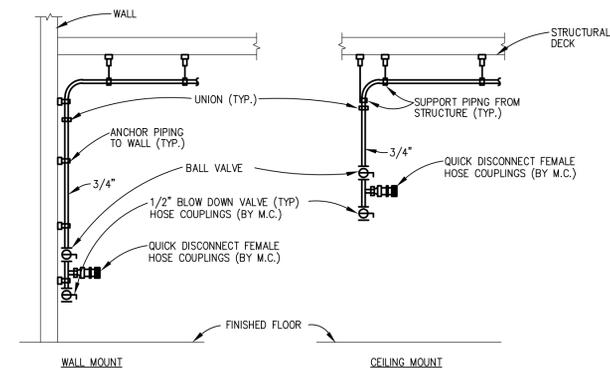
THERMOSTATIC MIXING VALVE DETAIL

NOT TO SCALE



AIR COMPRESSOR PIPING DETAIL

NOT TO SCALE



COMPRESSED AIR CONNECTION DETAILS

NOT TO SCALE

PROJ # 241503

DAVID W DAY, P.E.
102 Poncho St.
P.O. Box 1640 Anahuac, TX 77514
Telephone 713-927-4470

BRAKES PLUS
SEC OF CANYON CREEK DRIVE & S. 31ST STREET
TEMPLE, TX.



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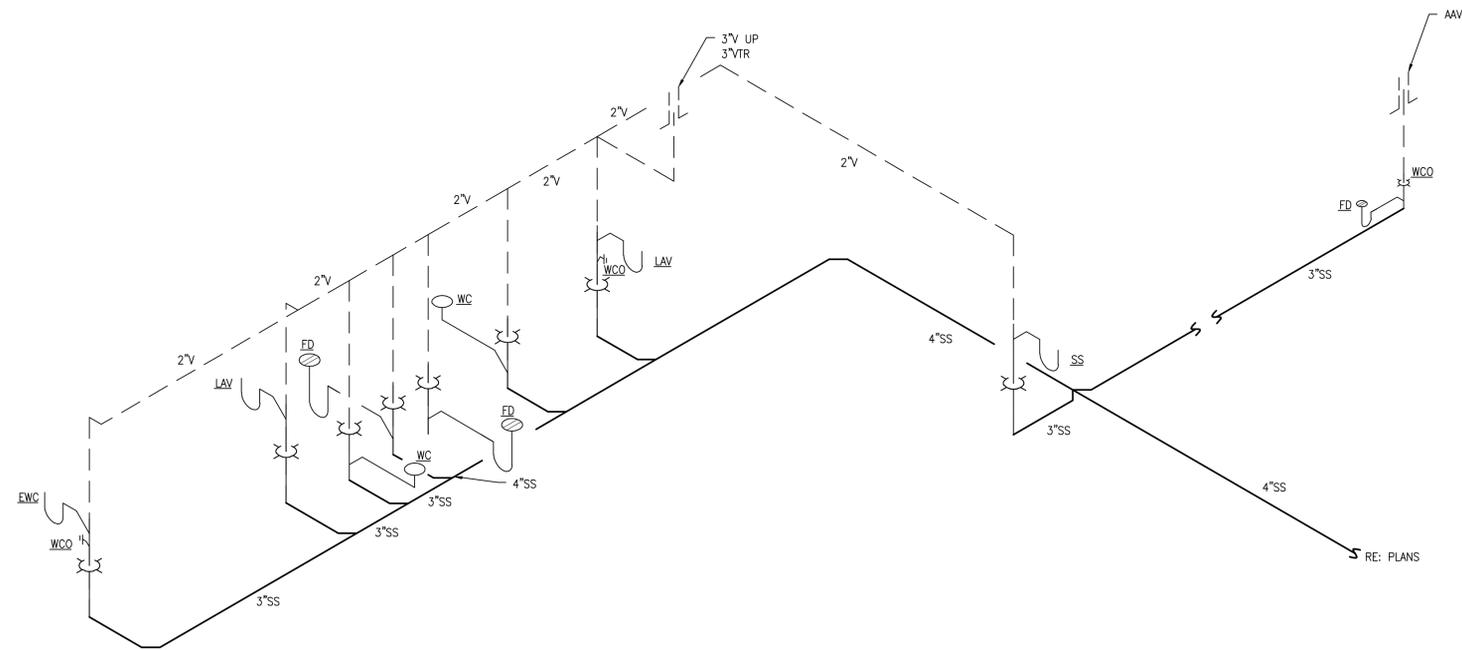


45 SPYGLASS DRIVE
LITTLETON, CO 80123
VOICE: 303.881.8925
NORMAHERMAN@ARCODEV.COM

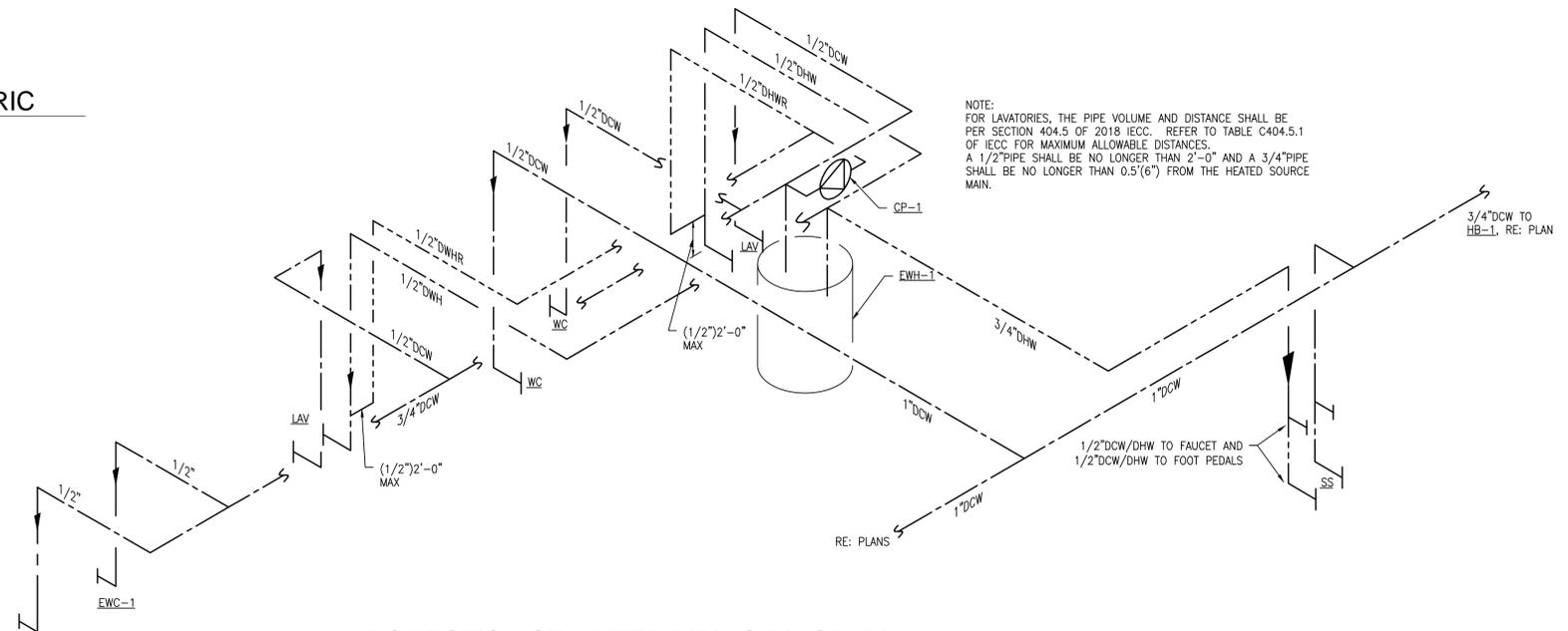
SHEET

P3.1

PLUMBING DETAILS



SANITARY SEWER ISOMETRIC
NOT TO SCALE



NOTE:
FOR LAVATORIES, THE PIPE VOLUME AND DISTANCE SHALL BE PER SECTION 404.5 OF 2018 IECC. REFER TO TABLE C404.5.1 OF IECC FOR MAXIMUM ALLOWABLE DISTANCES.
A 1/2" PIPE SHALL BE NO LONGER THAN 2'-0" AND A 3/4" PIPE SHALL BE NO LONGER THAN 0.5'(6") FROM THE HEATED SOURCE MAIN.

DOMESTIC HOT WATER PIPING DIAGRAM
NOT TO SCALE

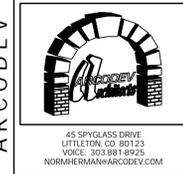
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P4.0
PLUMBING ISOMETRICS

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DAVID W DAY, P.E.
102 Poncho St.
P.O. Box 1640 Anahuac, TX 77514
Telephone 713-927-4470

ELECTRICAL GENERAL NOTES

1. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.
2. FINAL CONNECTIONS & ROUGH-IN REQUIREMENTS TO EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
3. CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL AND OTHER DRAWINGS PRIOR TO BID.
4. CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND VERIFY THAT CONDITIONS ARE AS INDICATED. CONTRACTOR SHALL REPORT DISCREPANCIES TO THE ARCHITECT AND INCLUDE IN HIS BID ALL COSTS REQUIRED TO MAKE HIS WORK MEET EXISTING CONDITIONS.
5. PROPOSED SUBSTITUTIONS OF ELECTRICAL EQUIPMENT OR REQUEST FOR "OR EQUAL" OR "APPROVED EQUAL" LISTING SHALL BE SUBMITTED TO ARCHITECT NOT LESS THAN TEN (10) WORKING DAYS PRIOR TO BID.
6. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT.
7. WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST ADOPTED EDITIONS OF LOCAL, STATE, AND NATIONAL CODES AND ORDINANCES.
8. PROVIDE PERMITS AND INSPECTIONS REQUIRED.
9. PROVIDE RECORD DRAWINGS TO ARCHITECT. DRAWINGS SHALL INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS, ALTERATIONS, REROUTINGS, ETC.
10. VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.
11. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER.
12. WIRE SHALL BE COPPER, 75 DEGREE C RATED FOR GENERAL USE. FOR HID FIXTURES AND WIRING WITHIN 3 INCHES OF FLUORESCENT BALLASTS, WIRE SHALL BE COPPER, MINIMUM 90 DEGREE C RATED. SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30 DEGREE C AMBIENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION.
14. CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS OR EQUIPMENT.
15. SYSTEMS SHALL BE COMPLETE, OPERABLE AND READY FOR CONTINUOUS OPERATION. LIGHTS, SWITCHES, RECEPTACLES, MOTORS, ETC., SHALL BE CONNECTED AND OPERABLE.
16. VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION SUPPORTS, SERVICE FEEDERS (CONDUIT AND/OR WIRE), PULLBOXES, TRANSFORMER PADS, SAWCUTTING AND PATCHING, CONCRETE/PAVING, ETC., REQUIRED. BACKFILL TRENCHES TO 90% COMPACTION AND PATCH TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS.
17. PROVIDE MAINTENANCE RECEPTACLE WITHIN 25'-0" OF ALL MECHANICAL OR MOTORIZED EQUIPMENT.
18. SEE MECHANICAL DRAWINGS FOR LOCATION OF MECHANICAL EQUIPMENT. PROVIDE SERVICE TO AND CONNECT EQUIPMENT AS REQUIRED. PROVIDE FUSES OR HACR-TYPE CIRCUIT BREAKERS FOR ALL AIR CONDITIONING EQUIPMENT SIZED IN ACCORDANCE WITH MANUFACTURER'S NAMEPLATE.
19. PROVIDE ENGRAVED NAMEPLATES ON PANELBOARDS, DISCONNECT SWITCHES, ETC. INDICATING EQUIPMENT DESIGNATION (OR DESIGNATION OF EQUIPMENT SERVED) AND VOLTAGE. NAMEPLATES TO BE MECHANICALLY FASTENED.
20. PANEL DIRECTORIES SHALL BE TYPED AND INSTALLED UNDER CLEAR PLASTIC COVERS.
21. ALL WIRING SHALL BE INSTALLED IN LISTED METALLIC RACEWAYS. RACEWAYS IN SLAB-ON-GRADE OR BELOW GRADE SHALL BE SCHEDULE 40 PVC. TRANSITIONS FROM BELOW TO ABOVE GRADE SHALL BE WITH RIGID STEEL ELBOWS WITH P.V.C. JACKET OR APPROVED EQUAL PROTECTION.
22. EMT, NON-METALLIC AND FLEXIBLE METAL CONDUITS SHALL HAVE A CODE SIZED COPPER GROUNDING CONDUCTOR. INCREASE CONDUIT SIZE AS REQUIRED.
23. FIRE ALARM, SOUND, TELEPHONE, COMPUTER, AND SIMILAR SYSTEMS CONDUITS LARGER THAN 1" SHALL HAVE LONG RADIUS SWEEPS (12 TIMES THE DIAMETER).
24. ALL ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY U.L.
25. WIRE TERMINATION PROVISIONS FOR PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES, AND ALL OTHER ELECTRICAL APPARATUS SHALL BE LISTED AS SUITABLE FOR 75 DEGREE C.
26. RECEPTACLES INSTALLED OUTSIDE, ON THE BUILDING EXTERIOR OR ROOF, WITHIN 6' OF A SINK OR WATER COOLER CONNECTION, VENDING MACHINES, AND KITCHEN AREAS SHALL BE GFCI TYPE OR PROTECTED BY GFCI CIRCUIT BREAKER PER NEC 511.12.
27. ALL NEW EQUIPMENT SUCH AS SWITCHBOARDS, DISTRIBUTION PANELS, DISCONNECT SWITCHES, TRANSFORMERS, AND PANELBOARDS SHALL BE BY THE SAME MANUFACTURER.
28. ELECTRICAL CONTRACTOR SHALL SUBMIT 5 COPIES OF ALL ELECTRICAL EQUIPMENT AND LIGHT FIXTURES TO ENGINEER VIA GENERAL CONTRACTOR FOR APPROVAL PRIOR TO ORDERING.
29. ELECTRICAL CONTRACTOR TO PROVIDE FINAL CONNECTION OF OWNER FURNISHED EQUIPMENT. VERIFY EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
30. HANDLE TIES SHALL BE PROVIDED FOR ALL MULTI-WIRED BRANCH CIRCUITS UNLESS INDIVIDUAL NEUTRAL CONDUCTORS ARE PROVIDED PER NEC 210.4(B).
31. FURNISH ALL MECHANICAL EQUIPMENT WITH FUSIBLE DISCONNECTS. THESE DISCONNECTS SHALL BE EQUIPED WITH CLASS "R" FUSES.

ALL ELECTRICAL WORK SHALL COMPLY WITH N.E.C. REQUIREMENTS

ELECTRICAL SHEET INDEX

NO.	REV.	DATE	BY	DESCRIPTION	SHEET NO.	SHEET DESCRIPTION
					8-30-24	PERMIT
					EO.1	ELECTRICAL COVER SHEET
					ES1.1	ELECTRICAL SITE PLAN
					E1.1	ELECTRICAL LIGHTING PLAN
					E2.1	ELECTRICAL POWER PLAN
					E3.1	ELECTRICAL ROOF PLAN
					E4.1	ELECTRICAL ONE LINE DIAGRAM
					E5.1	LIGHTING COMPLIANCE CERTIFICATES

ELECTRICAL LEGEND

	DUPLEX OUTLET
	DEDICATED DUPLEX OUTLET
	AUTOCLAVE RECEPTACLE
	FOUR-PLEX OUTLET
	220-VOLT OUTLET
	FLOOR OUTLET
	TELEPHONE JACK
	TELEPHONE JACK +60"
	DATA JACK
	PLUGMODE
	ABOVE COUNTER
	LIGHT SWITCH @ 56" AFF
	THREE-WAY LIGHT SWITCH @56" AFF
	TELEPHONE BACKBOARD W/ OUTLET
	ELECTRICAL PANEL
	TIME CLOCK
	SIGN OUTLET
	JUNCTION BOX
	THERMOSTAT

VERIFY ELECTRICAL REQUIREMENTS WITH OWNER PRIOR TO INSTALLATION

BRAKES PLUS

SEC OF CANYON CREEK DRIVE & S. 31ST STREET
TEMPLE, TX



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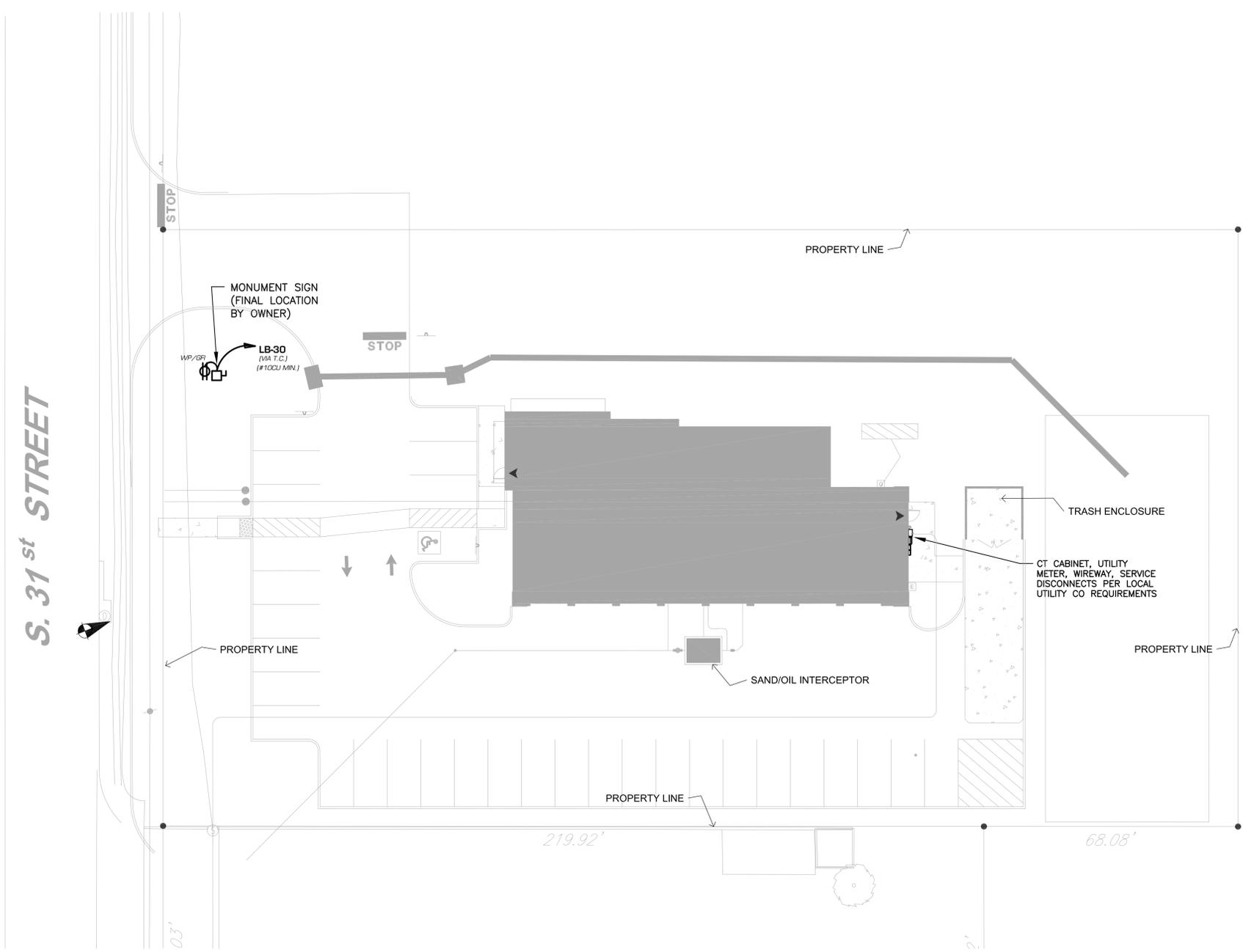


SHEET

EO.1

ELECTRICAL
COVER SHEET

DAVID W DAY , P.E.
 102 Poncho St.
 P.O. Box 1640 Anahuac, TX 77514
 Telephone 713-927-4470
 Texas Registered Engineering Firm
 F-9943



1 ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"



DAVID W DAY , P.E.
 102 Poncho St.
 P.O. Box 1640 Anahuac, TX 77514
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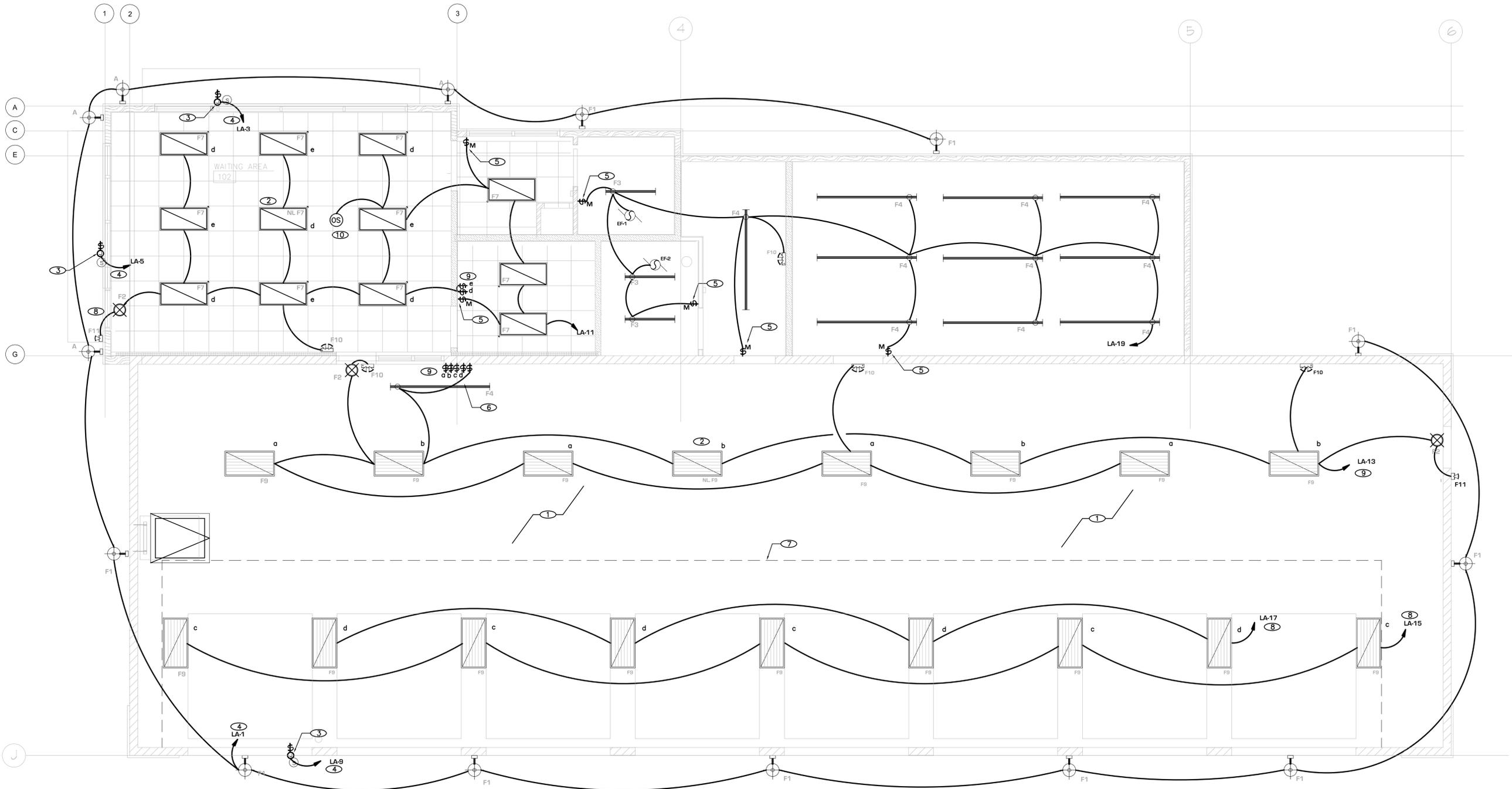
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SHEET
ES1.1
 ELECTRICAL
 SITE PLAN



LIGHTING GENERAL NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LUMINAIRE LOCATIONS.
2. COORDINATE LUMINAIRE LOCATION WITH MECHANICAL PIPING, DUCTWORK, ETC. TO AVOID CONFLICTS.
3. ALL CONDUIT SHALL BE INSTALLED CONCEALED IN FINISHED AREAS UNLESS OTHERWISE NOTED.
4. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT.
5. CONNECT EXTERIOR LUMINAIRES WITH MINIMUM #10 AWG CONDUCTOR.

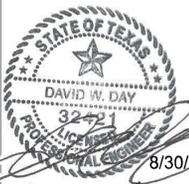
LIGHTING DETAIL NOTES

- ① MOUNT TYPE 'F9' LUMINAIRES LOCATED IN GARAGE AREA CHAIN HUNG FROM STRUCTURE AT 12'-0" A.F.F. MOUNT TYPE 'F9' LUMINAIRES LOCATED BETWEEN OVERHEAD DOORS AT 2" BELOW OVERHEAD GRILLE GUIDES.
- ② NIGHT LIGHT UNSWITCHED FIXTURE. CONNECT AHEAD OF LOCAL SWITCHING OR LIGHT CONTROLS.
- ③ JUNCTION BOX / DISCONNECTING MEANS FOR CONNECTION TO OWNER PROVIDED ILLUMINATED BUILDING SIGNAGE. COORDINATE EXACT LOCATION WITH SIGN CONTRACTOR PRIOR TO ROUGH-IN.
- ④ LUMINAIRE OR SIGN BRANCH CIRCUIT CONTROLLED THROUGH PHOTOCELL ON/TIMECLOCK OFF.
- ⑤ PROVIDED OCCUPANCY SENSOR ON/OFF SWITCH FOR CONTROL OF LIGHTING WITHIN THIS ROOM. SWITCH TO BE MANUFACTURED BY WATT STOPPER #LMPW-100.
- ⑥ CENTER FIXTURE OVER SERVICE MANAGER'S DESK.
- ⑦ DASHED LINE INDICATES DAYLIGHT ZONE.
- ⑧ CIRCUIT SWITCHED VIA DAYLIGHT PHOTOCELL SENSORS (DAYLIGHT RESPONSIVE CONTROLS) CONFIGURED TO COMPLETELY SHUT OFF ALL CONTROLLED LIGHT FIXTURES, IN ACCORDANCE WITH SECTION C405.2.3 OF THE 2015 IECC.
- ⑨ PROVIDED BI-LEVEL SWITCHING LIGHT-REDUCTION CONTROLS, IN ACCORDANCE WITH SECTION C405.2.3.1 OF THE 2015 IECC.
- ⑩ CEILING MOUNTED OCCUPANCY SENSOR.

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

DAVID W DAY, P.E.
102 Poncho St.
P.O. Box 1640 Anahuac, TX 77514
Telephone 713-927-4470
Texas Registered Engineering Firm
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BRAKES PLUS
SEC OF CANYON CREEK DRIVE & S. 31ST STREET
TEMPLE, TX.



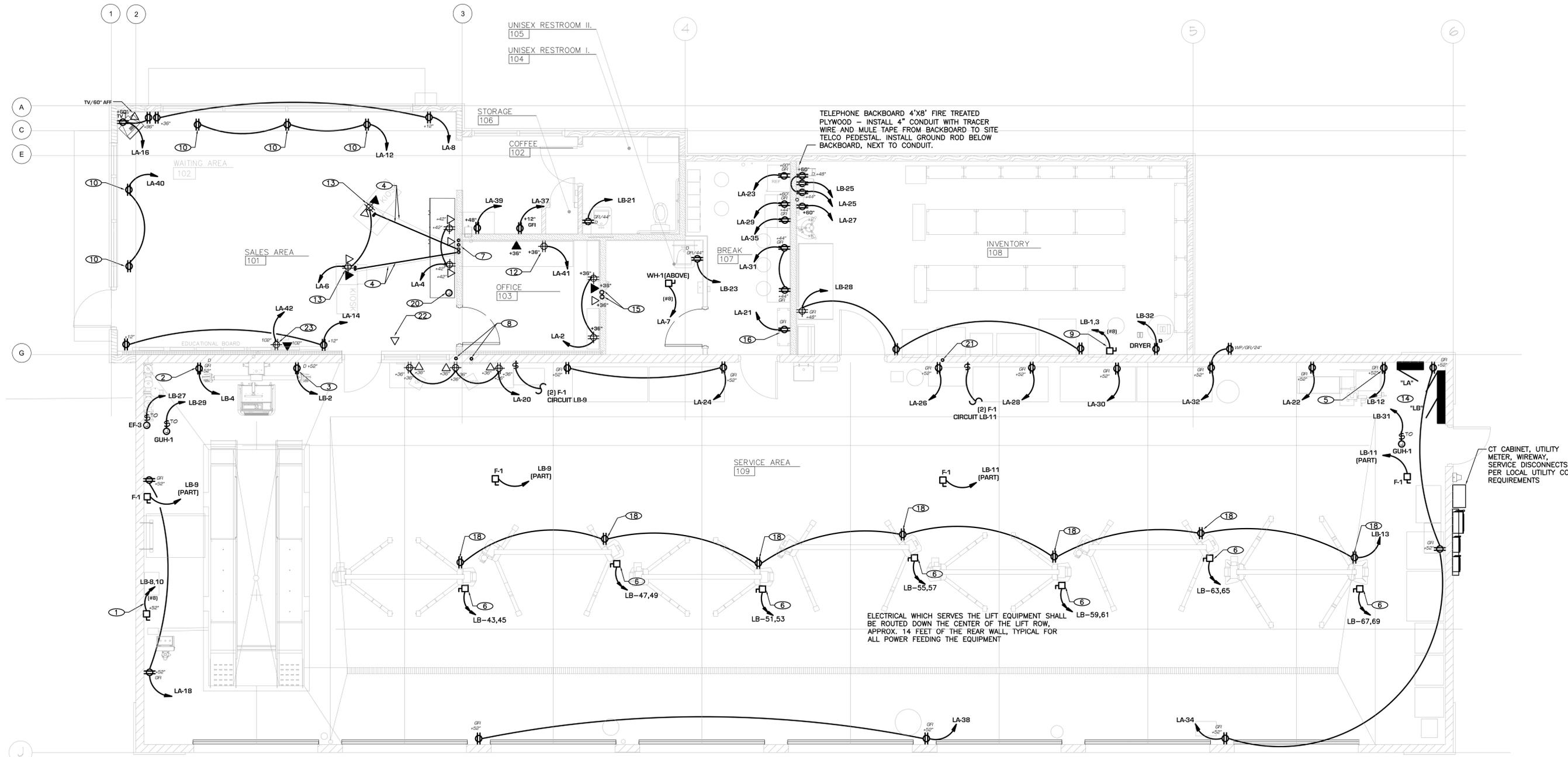
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SHEET
E1.1
ELECTRICAL
LIGHTING PLAN



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

POWER GENERAL NOTES

- REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT AND/OR LOCATION OF DEVICES PRIOR TO ROUGH-IN.
- COORDINATE REQUIREMENTS AND LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- MAKE ALL FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT.
- ALL CONDUIT SHALL BE INSTALLED CONCEALED IN FINISHED AREAS UNLESS OTHERWISE NOTED.
- EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT.
- COORDINATE REQUIREMENTS AND LOCATIONS OF OWNER SUPPLIED EQUIPMENT WITH OWNER AND EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- PROVIDE GFCI PROTECTION FOR ALL 125V, 15-20A RECEPTACLES INSTALLED IN THE SERVICE BAY AREAS WHERE DIAGNOSTIC EQUIPMENT, POWER TOOLS, OR LIGHTING EQUIPMENT IS USED PER N.E.C. ARTICLE 511.12.

8. ELECTRICAL INSTALLATION SHALL COMPLY WITH N.E.C. ARTICLE 511:

- ALL AREAS DESIGNATED AS HAZARDOUS (CLASSIFIED) LOCATIONS SHALL BE PROPERLY DOCUMENTED. THIS DOCUMENTATION SHALL BE AVAILABLE TO THOSE AUTHORIZED TO DESIGN, INSTALL, INSPECT, MAINTAIN, OR OPERATE ELECTRICAL EQUIPMENT AT THE LOCATION. PER N.E.C. ARTICLE 500.4 MAINTENANCE BAYS ARE MAJOR REPAIR GARAGE AND MUST COMPLY WITH N.E.C. ARTICLE 511.3.
- FLOOR AREAS ARE CLASS 1 DIVISION 2 CLASSIFIED UP TO A LEVEL OF 18" PER N.E.C. TABLE 511.3(C). THIS AREA SHALL COMPLY WITH ARTICLE 511.3(C) AND HAVE WIRING AND DEVICES INSTALLED PER N.E.C. ARTICLE 501.10(B)
- GARAGE AREA IS PROVIDED WITH VENTILATION OF AT LEAST 1 CUBIC FOOT PER MINUTE FOR EACH SQUARE FT OF FLOOR AREA, WITH SUCTION TAKEN FROM A POINT WITHIN 18" OF HIGHEST POINT IN THE CEILING. NO LIGHTER-THAN-AIR GASEOUS FUELS ARE UTILIZED IN THIS AREA. PER N.E.C. ARTICLE 511.3(D) THIS AREA IS UNCLASSIFIED.

POWER DETAIL NOTES

- ALIGNMENT RACK. PROVIDE 40A/2P DISCONNECT SWITCH AS REQUIRED FOR CONNECTION TO EQUIPMENT. CONNECT TO BRANCH BREAKER AS INDICATED VIA 2#8, 1#10G - 1" C.
- ALIGNMENT MACHINE. PROVIDE 20 AMP, 120 VOLT GFI DUPLEX RECEPTACLE AS REQUIRED FOR CONNECTION TO EQUIPMENT. CONNECT TO BRANCH BREAKER AS INDICATED VIA 2#12, 1#12G - 1/2" C.
- ALIGNMENT SENSORS. PROVIDE 20 AMP, 120 VOLT GFI DUPLEX RECEPTACLE AS REQUIRED FOR CONNECTION TO EQUIPMENT. CONNECT TO BRANCH BREAKER AS INDICATED VIA 2#12, 1#12G - 1/2" C.
- PROVIDE (2) 1" ELECTRICAL CONDUITS FROM JUST ABOVE CEILING, THROUGH THE WALL, AND UNDER FLOOR SLAB TO EACH KIOSK. CONDUIT #1 (FOR POWER) SHALL BE 7'-0" FROM REAR WALL AND 2'-6" FROM CENTERLINE OF FRONT DOOR. CONDUIT #2 (FOR DATA) WILL BE JUST TO THE OUTSIDE OF CONDUIT #1 AND SLIGHTLY BACK TO ALLOW FOR ANGLE MOUNTING OF KIOSK.
- BRAKE LATHE. PROVIDE 20 AMP, 120 VOLT GFI DUPLEX RECEPTACLE AS REQUIRED FOR CONNECTION TO EQUIPMENT. CONNECT TO BRANCH BREAKER AS INDICATED VIA 2#12, 1#12G - 1/2" C.
- PROVIDE POWER FOR LIFTS, 208V, 1PH, 25A CIRCUIT, 17FLA. VERIFY EXACT LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN AND INSTALLATION.
- PROVIDE TWO 1" EMPTY CONDUITS WITH PULL STRINGS FROM THE PRINTER DESK WALL BOX TO THE CEILING PLENUM.
- PROVIDE TWO 1" EMPTY CONDUITS WITH PULL STRINGS AT THE SERVICE MANAGER'S DESK FROM THE WALL BOX UP TO THE CEILING PLENUM.
- AIR COMPRESSOR. PROVIDE (1) 60A/2P DISCONNECT SWITCH AS REQUIRED FOR CONNECTION TO EACH MOTOR. CONNECT TO BRANCH BREAKER AS INDICATED VIA 2#8, 1#10G - 3/4" C.
- PROVIDE FLUSH MOUNTED DUPLEX RECEPTACLE LOCATED IN CEILING FOR SHOW WINDOW RECEPTACLES.
- INTERLOCK EF-3 WITH LV-1
- PROVIDE FOUR-PLEX RECEPTACLE FOR CONNECTION TO OWNER SUPPLIED COMPUTER SERVER. COORDINATE LOCATION AND MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
- COORDINATE LOCATION OF DUPLEX RECEPTACLE AND DATA OUTLET IN MILLWORK PRIOR TO ROUGH-IN.
- MAINTAIN NEC REQUIRED CLEARANCES AT PANELS.

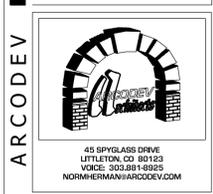
- PROVIDE 1" EMPTY CONDUIT WITH PULL STRING IN MANAGER'S OFFICE AT EACH WORK STATION FROM THE WALL BOX TO THE CEILING PLENUM.
- PROVIDE DUPLEX RECEPTACLE FOR CONNECTION TO IRRIGATION CONTROLLER. COORDINATE EXACT LOCATION WITH LANDSCAPE CONTRACTOR.
- WEATHERPROOF RECEPTACLE PROVIDED WITH ROOF TOP UNIT, E.C. TO INSTALL.
- GFI DUPLEX RECEPTACLE PROVIDED WITH LIFT. CONNECT 120 VOLT RECEPTACLE TO BRANCH CIRCUIT SERVING LIFT.
- PROVIDE 1" EMPTY CONDUIT WITH PULL STRING FROM COMPUTER STATION LOCATION WALL BOX TO THE CEILING PLENUM.
- ALARM PAD - PROVIDE 3/4" EMPTY CONDUIT STUBBED ABOVE CEILING. VERIFY EXACT LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN AND INSTALLATION.
- PROVIDE 1" EMPTY CONDUIT WITH PULL STRING FROM TECH PERSON COMPUTER LOCATION WALL BOX TO THE CEILING PLENUM.
- DATA OUTLET ABOVE CEILING FOR WIRELESS ROUTER. VERIFY EXACT LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN AND INSTALLATION.
- DUPLEX RECEPTACLE AND DATA OUTLET FOR MENU TV. VERIFY EXACT LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN AND INSTALLATION.

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DAVID W DAY, P.E.
102 Poncho St.
P.O. Box 1640 Anahuac, TX 77514
Telephone 713-927-4470
Texas Registered Engineering Firm
F-9943

E2.1
ELECTRICAL POWER PLAN

BRAKES PLUS

SEC OF CANYON CREEK DRIVE & S. 31ST STREET
TEMPLE, TX.



8/30/24

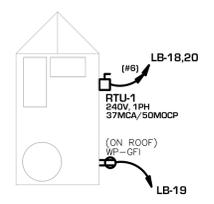
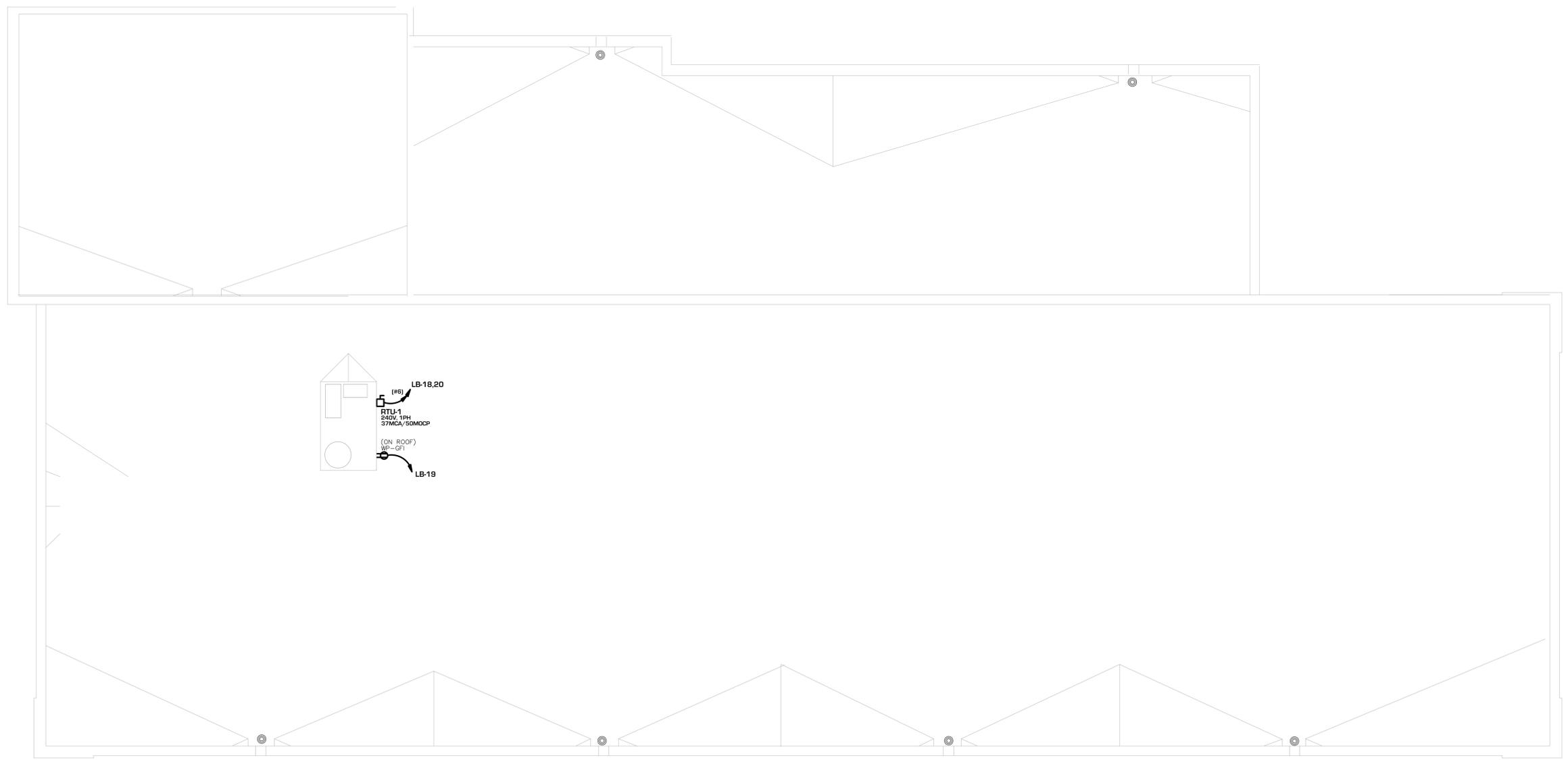
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SHEET
E3.1
 ELECTRICAL
 ROOF PLAN



1 ELECTRICAL ROOF PLAN
 SCALE: 1/4" = 1'-0"

DAVID W DAY , P.E.
 102 Poncho St.
 P.O. Box 1640 Anahuac, TX 77514
 Telephone 713-927-4470
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MECHANICAL EQUIPMENT SCHEDULE

DESIGNATION	DESCRIPTION	LOAD				VOLTAGE	PHASE	DISCONNECT SIZE	FUSE SIZE	FEEDER SIZE	REMARKS
		HP	KVA	FLA	MCA						
RTU-1	ROOF TOP UNIT			31.3	37.0	240	1	60A/2P	50A FRN-R	(2#6, 1#10G, 1-1/4"C)	
EF-1	EXHAUST FAN		100W			120	1	SMT0	-	(2#12, 1#12G, 3/4"C)	
EF-2	EXHAUST FAN		100W			120	1	SMT0	-	(2#12, 1#12G, 3/4"C)	
EF-3	EXHAUST FAN	1/2	1176W	9.8		120	1	SMT0	-	(2#12, 1#12G, 3/4"C)	
F-1	AIR CIRCULATION FAN	1/4	696W	5.8		120	1	30A/1P	9A FRN-R	(2#12, 1#12G, 3/4"C)	
GUH-1	GAS UNIT HEATER	1/2				120	1	SMT0	-	(2#12, 1#12G, 3/4"C)	
EWH-1	WATER HEATER		1.5KW			120	1	-	-	(2#12, 1#12G, 3/4"C)	

REMARKS
 1. UNIT FURNISHED WITH INTEGRAL DISCONNECT.
 1. PROVIDE MOTOR RATED SWITCH WITH THERMAL OVERLOAD.

LIGHT FIXTURE SCHEDULE ALL FIXTURES FURNISHED AND INSTALLED BY GENERAL CONTRACTOR

SYMBOL	MARK	QUANTITY	DESCRIPTION	MANUF.	CAT. NO.	LAMP	MOUNTING	VOLTAGE	REMARKS
⊕	A	4	EXTERIOR DECORATIVE LIGHT FIXTURE	COOPER LIGHTING	303-WI-LEDB2-3000-UNV-T4-DIM10	16W LED	WALL	120	REFER TO ELEVATIONS FOR MOUNTING LOCATIONS - DARK BRONZE FINISH
⊕	F1	10	EXTERIOR DECORATIVE LIGHT FIXTURE	MCGRAW EDISON	IST-SAI-F-730-U-T4FT	25W LED	WALL	120	REFER TO ELEVATIONS FOR MOUNTING LOCATIONS - DARK BRONZE FINISH
⊕	F2	3	EXIT SIGN	COOPER LIGHTING	APC7 G	LED	WALL/CENTER ON DOOR	120	PROVIDE EMERGENCY BATTERY PACK (90 MINUTE MIN.)
⊕	F3	3	4'-0" STRIP LED	COOPER LIGHTING	45NLED L05 UNV	38W LED	UNIVERSAL	120	MOUNT AT 12'-0" AFF
⊕	F4	11	8'-0" STRIP LED	COOPER LIGHTING	8T5NLED L05 UNV	61W LED	UNIVERSAL	120	MOUNT AT 12'-0" AFF
⊕	F7	12	2x4 RECESSED LED TROFFER	COOPER LIGHTING	24CGT 4540C	39W LED	GRID MOUNT	120	
⊕	F9	17	4' - LED HIGHBAY	COOPER LIGHTING	LHB 18 UNV	87W LED	HUNG FROM STRUCT.	120	
⊕	F10	6	EMERGENCY LIGHT W/ BATTERY BACKUP	COOPER LIGHTING	SEL 25	LED	WALL MOUNTED	120	PROVIDE EMERGENCY BATTERY PACK (90 MINUTE MIN.) AND TIME DELAY RELAY
⊕	F11	2	EMERGENCY EGRESS LIGHT - EXTERIOR	COOPER LIGHTING	AEL 246	LED	SURFACE	120	PROVIDE EMERGENCY BATTERY PACK (90 MINUTE MIN.)

SCHEDULE - PANEL LA

DESCRIPTION	AMPS	KVA	DESCRIPTION	AMPS	KVA
EXTERIOR LIGHTING	404	11.4	720 OFFICE RECEP	360	10.0
EXTERIOR SIGN	1200	3.1	800 SALES AREA COUNTER RECEP	360	10.0
EXTERIOR SIGN	1200	3.1	1000 KIOSK RECEP	360	10.0
EWH-1	1500	4.3	360 SALES AREA RECEP	360	10.0
EXTERIOR SIGN	1200	3.1	SPARE	360	10.0
SALES, COFFEE, OFFICE LIGHTING	528	15.1	1800 SHOW WINDOW RECEP	360	10.0
SERVICE AREA LIGHTING	1144	32.4	360 SALES AREA RECEP	360	10.0
SERVICE AREA LIGHTING	660	18.9	500 TELEVISION	360	10.0
SERVICE AREA LIGHTING	528	15.1	360 SERVICE AREA RECEP	360	10.0
INVENTORY, BREAK, RESTROOM LTG	1012	28.9	500 GARAGE A/C RECEP	360	10.0
IRRIGATION CONTROLS	500	14.3	540 GARAGE RECEP	360	10.0
BREAK RM	180	5.1	360 GARAGE RECEP	360	10.0
BURGLER ALARM	400	11.4	200 COMPUTER	360	10.0
TELEPHONE SYSTEM	400	11.4	500 BENCH RECEP	360	10.0
MICROWAVE	900	25.7	180 GARAGE RECEP	360	10.0
BREAK RECEP	360	10.0	360 GARAGE RECEP	360	10.0
SPARE	360	10.0	540 SERVICE AREA RECEP	360	10.0
REFRIGERATOR	1200	34.3	SPARE	360	10.0
RECEP - WATER FOUNTAIN	370	10.5	360 GARAGE RECEP	360	10.0
COFFEE UNIT	1000	28.9	1200 SHOW WINDOW RECEP	360	10.0
OFFICE RECEP	360	10.0	300 MENU TV	360	10.0
A phase =	11,526 VA		B phase =	14,420 VA	
			Total =	25,946 VA	

LOAD CALCULATIONS

LIGHTING	9.1	125%	=	11.4	KVA
RECEPTACLE	10.0	100%	=	10.0	KVA
BALANCE	3.1	50%	=	1.6	KVA
MECHANICAL	12.4	100%	=	12.4	KVA
25% OF LARGEST			=	1.9	KVA
SPECIAL	55.7	100%	=	55.7	KVA
TOTAL			=	93.0	KVA (388 A)

SHORT CIRCUIT CALCULATIONS

POINT TO POINT METHOD FOR SHORT CIRCUIT CALCULATIONS ILLUSTRATED IN BUSSMAN MANUFACTURING PUBLICATION FORM SP090.

SERVICE: 120/240 V, 1-PHASE, 3W

$I_{FL} = \frac{100 \times 1000}{240} = 416.67$

MULTIPLIER = $\frac{100}{1.4} = 71.43$

AVAILABLE SHORT CIRCUIT CURRENT FROM UTILITY = 29,762 A

FIND FACTOR $f = 2.0 \times (\text{length in feet}) \times (\text{short circuit current})$
 (constant from Table C) \times (line-to-line voltage)

$f = 2.0 \times 200 \times 29,762 = 0.792$

FIND FACTOR $M = \frac{1}{1 + f} = 0.5579$

SHORT CIRCUIT CURRENT AT CT/MAIN = $M \times$ AVAILABLE S.C. CURRENT

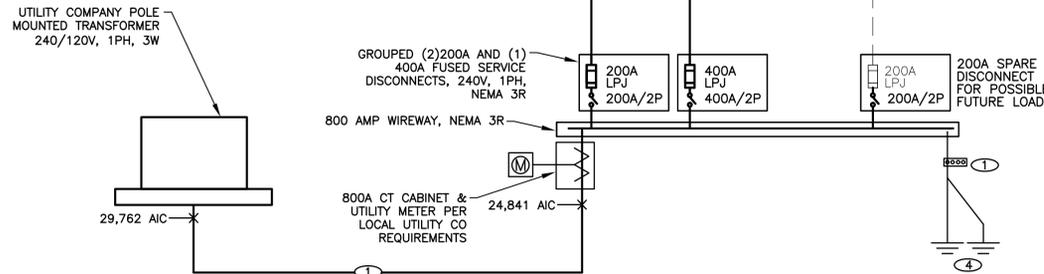
$I = 16,605$ A

LENGTH IN FEET = 16
 FACTOR $f = 0.183$
 FACTOR $M = 0.846$
 SHORT CIRCUIT CURRENT AT PANEL "LA" = 14,041 A

LENGTH IN FEET = 14
 FACTOR $f = 0.052$
 FACTOR $M = 0.951$
 SHORT CIRCUIT CURRENT AT PANEL "LB" = 15,790 A

NOTE:

1. ELECTRICAL CONTRACTOR TO LABEL THE SERVICE ENTRANCE WITH THE AVAILABLE FAULT CURRENT AND THE DATE IT WAS CALCULATED AS REQUIRED BY N.E.C. ARTICLE 100.24



1 ELECTRICAL ONE LINE DIAGRAM
 N.T.S.

FEEDER SCHEDULE

- 1 3 RUNS OF 3#300 MCM CU 2-1/2"C
- 2 3#250 MCM AL, 1#4 AL GND, 2"C
- 3 2 RUNS OF 3#250 MCM AL, 1#1 AL GND, 2"C
- 4 #2/0 CU GND TO BLDG. STEEL & COLD WATER BOND, #6 CU GND TO DRIVEN ROD, & #4 TO CONCRETE ENCASED ELECTRODE (UFER).

ONE-LINE DIAGRAM DETAIL NOTES

- 1 PROVIDE AN INTERSYSTEM BONDING TERMINATION (BT) AS REQUIRED BY N.E.C. ARTICLE 250.94.

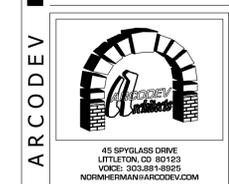
BRAKES PLUS
 SEC OF CANYON CREEK DRIVE & S. 31ST STREET
 TEMPLE, TX.



ARCHITECT OF RECORD

REVISION	DATE	COMMENTS
	08/30/24	FOR BLDG. DEPT. SUBMITTAL

ARC CODEV JOB #: _____
 CLIENT JOB #: _____
 DRAWN BY: SB
 CHECKED BY: LFP
 DATE OF ISSUE: 08.30.24



SHEET

E4.1
 ELECTRICAL ONE LINE DIAGRAM

DAVID W DAY, P.E.
 102 Poncho St.
 P.O. Box 1640 Anahuac, TX 77514
 Telephone 713-927-4470
 Texas Registered Engineering Firm
 F-9943

COMcheck Software Version 4.1.5.5
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Brakes Plus
Project Type: New Construction

Construction Site: NWC of Tillgang Pass & Hwy 290 Manor, TX
Owner/Agent:
Designer/Contractor: Loren Priest EE, LLC 12005 Antelope Trail Parker, CO 80138 303.748.1189 loren@eeparker.com

Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-Sales Area (Retail/Sales Area)	985	1.43	1409
2-Service/Repair (Automotive/Vehicular Maintenance Area)	3730	0.60	2238
Total Allowed Watts =			3647

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Sales Area (Retail/Sales Area)				
LED 7' F3: 4' LED Strip: LED Linear 22W:	2	3	44	132
LED 8' F4: 6' LED Strip: LED Linear 22W:	4	1	88	88
LED 7 copy 1: F7: 2x4 LED Troffer: LED Panel 19W:	1	12	25	300
2-Service/Repair (Automotive/Vehicular Maintenance Area)				
LED 8 copy 2: F8: 4' LED Highbay: LED Panel 80W:	1	17	120	2040
LED 8 copy 1: F4: 6' LED Strip: LED Linear 22W:	4	10	88	880
Total Proposed Watts =			3440	

Interior Lighting PASSES: Design 6% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Stan Bentley - Electrical Designer
Signature: *Stan Bentley*
Date: 8-29-24

Project Title: Brakes Plus
Data filename: C:\COMCHECK\BRAKES PLUS\BRAKES PLUS-TEMPLE TX.cck
Report date: 08/29/24
Page 1 of 7

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Brakes Plus
Data filename: C:\COMCHECK\BRAKES PLUS\BRAKES PLUS-TEMPLE TX.cck
Report date: 08/29/24
Page 5 of 7

COMcheck Software Version 4.1.5.5
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Brakes Plus
Project Type: New Construction
Exterior Lighting Zone: 4 (High activity metropolitan commercial district (LZ4))

Construction Site: NWC of Tillgang Pass & Hwy 290 Manor, TX
Owner/Agent:
Designer/Contractor: Loren Priest EE, LLC 12005 Antelope Trail Parker, CO 80138 303.748.1189 loren@eeparker.com

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Wall area (Illuminated area of facade wall or surface)	3000 ft ²	0.2	No	600
Total Tradable Watts (a) =			0	
Total Allowed Watts =			600	
Total Allowed Supplemental Watts (b) =			1300	

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 1300 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Wall area (Illuminated area of facade wall or surface 3000 ft²): Non-tradable Wattage				
LED 1: F1: LED Wall pack: LED A Lamp 25W:	1	10	30	300
LED 4: A: LED Decorative Wall Lt: LED A Lamp 25W:	1	4	26	104
Total Tradable Proposed Watts =			0	

Exterior Lighting PASSES: Design 0.0% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Stan Bentley - Electrical Designer
Signature: *Stan Bentley*
Date: 8-29-24

Project Title: Brakes Plus
Data filename: C:\COMCHECK\BRAKES PLUS\BRAKES PLUS-TEMPLE TX.cck
Report date: 08/29/24
Page 2 of 7

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Brakes Plus
Data filename: C:\COMCHECK\BRAKES PLUS\BRAKES PLUS-TEMPLE TX.cck
Report date: 08/29/24
Page 6 of 7

COMcheck Software Version 4.1.5.5
Inspection Checklist

Energy Code: 2015 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req. ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C103.2 [PR8]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C406 [PR9]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Brakes Plus
Data filename: C:\COMCHECK\BRAKES PLUS\BRAKES PLUS-TEMPLE TX.cck
Report date: 08/29/24
Page 3 of 7

Section # & Req. ID	Rough-in Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15]	Lighting controls installed to uniformly reduce the lighting load by at least 90%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1 [EL18]	Occupancy sensors installed in required spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1 [C405.2.2] [EL23]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.2 [EL22]	Automatic controls to shut off all building lighting installed in all buildings.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3 [EL16]	Daylight zones provided with individual controls that control the lights independent of general area lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3 [C405.2.3.1] [C405.2.3.2] [EL20]	Primary side/angled areas are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3 [C405.2.3.3] [EL21]	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.4 [EL4]	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.4 [EL8]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.5 [EL25]	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.3 [EL6]	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Brakes Plus
Data filename: C:\COMCHECK\BRAKES PLUS\BRAKES PLUS-TEMPLE TX.cck
Report date: 08/29/24
Page 4 of 7

Section # & Req. ID	Final Inspection	Complies?	Comments/Assumptions
C303.3 [C408.2.5.2] [F17]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.4.1 [F18]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
C405.5.1 [F19]	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Exterior Lighting fixture schedule for values.
C408.2.5 [F16]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.3 [F33]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Project Title: Brakes Plus
Data filename: C:\COMCHECK\BRAKES PLUS\BRAKES PLUS-TEMPLE TX.cck
Report date: 08/29/24
Page 6 of 7

Project Title: Brakes Plus
Data filename: C:\COMCHECK\BRAKES PLUS\BRAKES PLUS-TEMPLE TX.cck
Report date: 08/29/24
Page 7 of 7

BRAKES PLUS
SEC OF CANYON CREEK DRIVE & S. 31ST STREET
TEMPLE, TX



ARCHITECT OF RECORD

REVISION DATE COMMENTS
08/30/24 FOR BLDG. DEPT. SUBMITTAL

ARCODEV JOB #: -
CLIENT JOB #: -
DRAWN BY: SB
CHECKED BY: LRP
DATE OF ISSUE: 08.30.24



SHEET

E5.1

LIGHTING COMPLIANCE CERTIFICATES

DAVID W DAY, P.E.
102 Poncho St.
P.O. Box 1640 Anahuac, TX 77514
Telephone 713-927-4470
Texas Registered Engineering Firm
F-9943