

GAMEDAY MEN'S HEALTH CLINIC 190 CREEKSIDE CROSSING NEW BRAUNFELS, TEXAS 78130



DRAWING COORDINATION
Architectural, Landscape, Civil, Structural, Mechanical and Electrical drawings are interrelated. General Contractor and all Sub Contractors shall review and coordinate the entire set of drawings and specifications.

CODE ANALYSIS

Description: Gameday Mens Health Facility
Client: Gameday
Tenant area: 2514 Sq Ft
Address: 190 Creekside Crossing, Suite1206, New Braunfel TX 78130

- 2021 International Building Code
- 2021 International Fire Code
- 2021 International Energy Conservation Code
- 2020 National Electrical Code
- 2021 International Plumbing Code
- 2021 International Mechanical Code

CONSTRUCTION TYPE - IIB FULLY SPRINKLERED
OCCUPANCY GROUP - B Occupancy Load - 17 (Table 1004.5)

VERTICAL & HORIZONTAL SEPERATION 508.4 - SPRINKLER SYSTEM
NFPA 13 - REQUIRES MIN 1 HR
WALL & FLOOR - REF. A1.00
Vertical compliance UL Design No. D925 - Ex. concrete = 2 hr
Horizontal compliance-UL Design No. U419 (Non-Load-Bearing Wall Assembly) = 1HR - REF DTL XX/A1.00

RESTROOM DESIGN
NUMBER OF PEOPLE = 17 (8 FEMALE 8 MALE)
CODE - Business Occupancies (Group B): Spaces with a total occupant load of 25 or fewer allows for 1 multi-use rest room required - 2 provided.
PARKING
SHARED USE OF EXISTING PARKING PER LEASE AGREEMENT
Standard Medical/Professional Office Ratio (1 space per 300 sq. ft. GFA): $\frac{2514}{300} = 8$ spaces

DESIGN TEAM

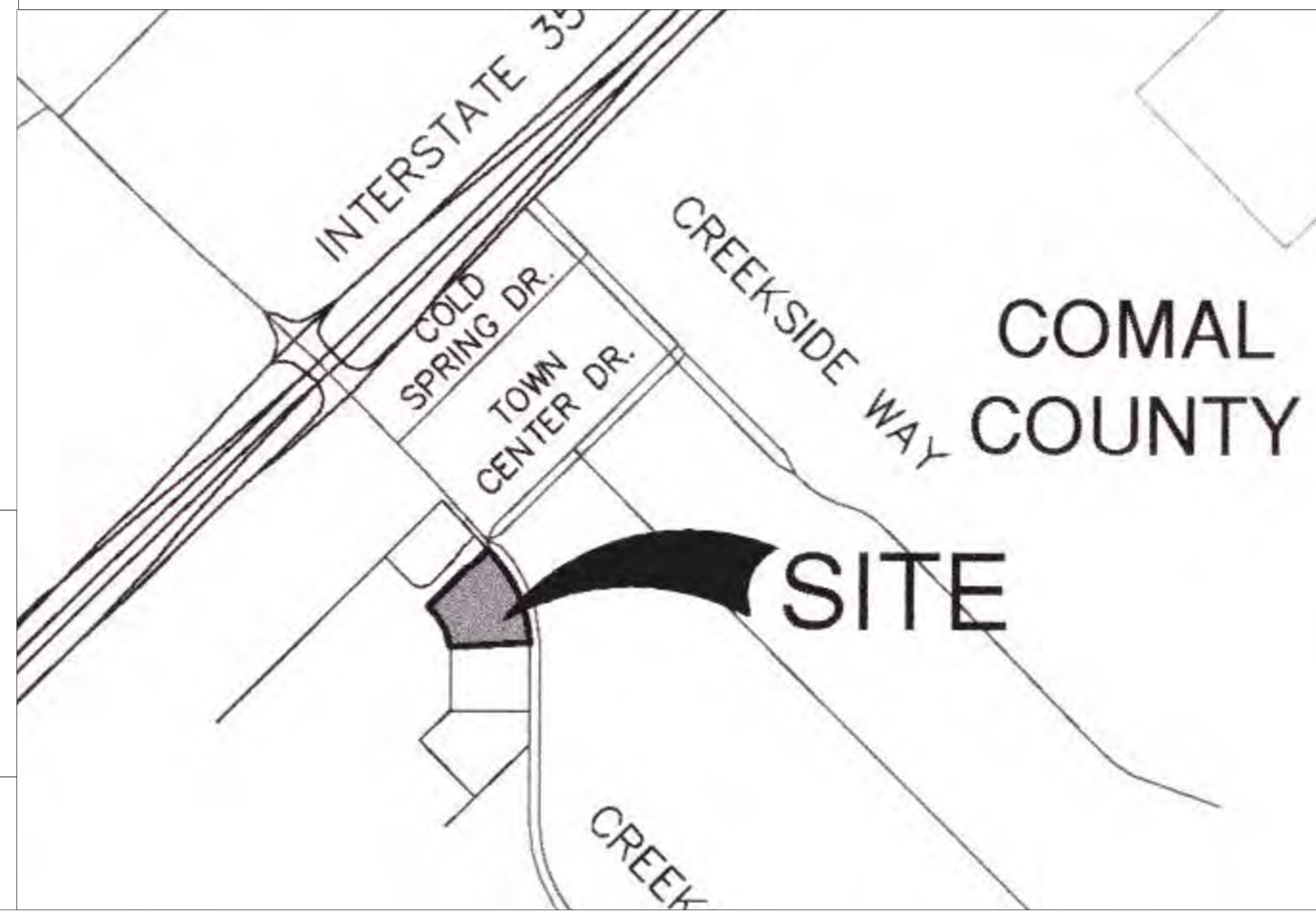
ARCHITECT- LEGG ARCHITECTURE, LLC
26116 HIGH TIMBER PASS ST
SAN ANTONIO 78260
TEL: 210 - 416 4935

MEP- MALONEY ASSOCIATES
CONSULTING ENGINEERS, INC
1228 TRAILWOOD DRIVE
HURST TEXAS 76053
(817) 268-0383 VOICE & FAX
(817) 832-8907 CELL

STRUCTURAL ENGINEER
Integrity Engineering Solutions, LLC5608
Malvey Ave., Suite 303
Fort Worth, TX 76107
817.696.9122
E: plalonde@integrity-engineering-solutions.com

DRAWING INDEX

ARCHITECTURAL	MEP	STRUCTURAL
G0.01-COVER SHEET	M0.00-Mechanical notes & Details	S0.02 - Partial Framing Plan
A0.00-SITE PLAN	M0.01-Mechanical Schedules	S0.03 - RTU Framing Detail
A1.00-LIFE SAFETY PLAN & WALL TYPES	M1.00-Mechanical Plan	S0.04 - General Notes
A1.01-FLOOR PLAN	E0.00-Electrical Risers & Schedules	
A2.00-REFLECTED CEILING PLAN	E1.00-Electrical Plan	
A3.00-ROOF PLAN	E1.01-Lighting Plan	
A4.00-EXTERIOR ELEVATIONS & BUILDING SECTION	P0.00-Plumbing Notes & Details	
A5.00-INTERIOR ELEV;RR DTLs;MILLWORK;SCHEDULES	P1.00-Plumbing Waste Plan	
A6.00-SPECIFICATIONS	P1.01-Plumbing Supply Plan	
A7.00-SPECIFICATIONS	P2.00-Plumbing Risers	
A8.00-SPECIFICATIONS		



GAMEDAY
190 Creekside Crossing,
New Braunfels, 78130 Texas

DATE	DESCRIPTION	BY

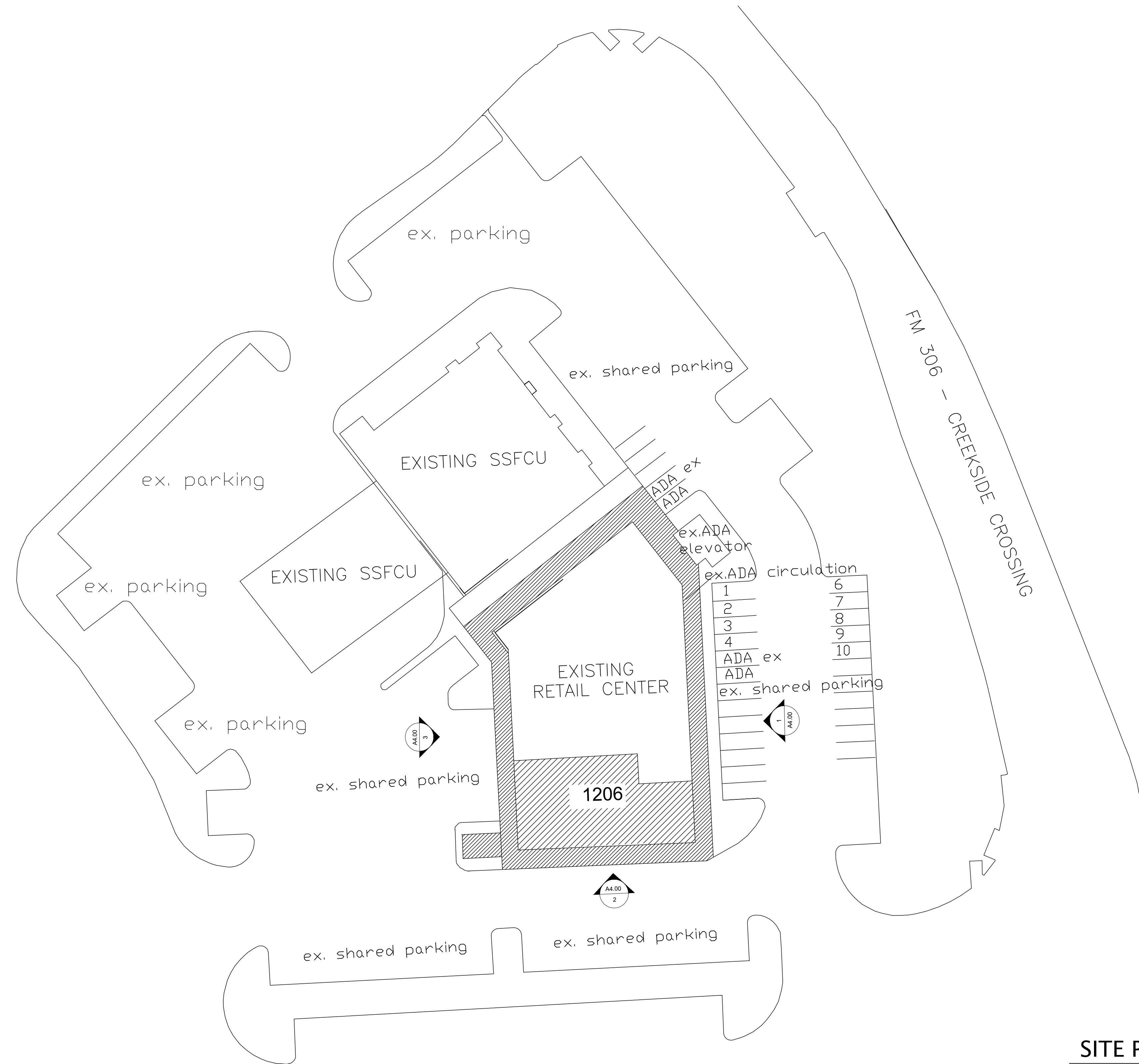
SCALE
NTS

PROJECT NO.
04-26-26

SHEET NO.
COVER SHEET
G0.01



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SITE PLAN
SCALE: NTS

GAMEDAY
190 Creekside Crossing,
New Braunfels, 78130 Texas

DATE	DESCRIPTION	BY

SCALE
NTS

PROJECT NO.
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SHEET NO.
SITE PLAN
A0.00



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190 Creekside Crossing,
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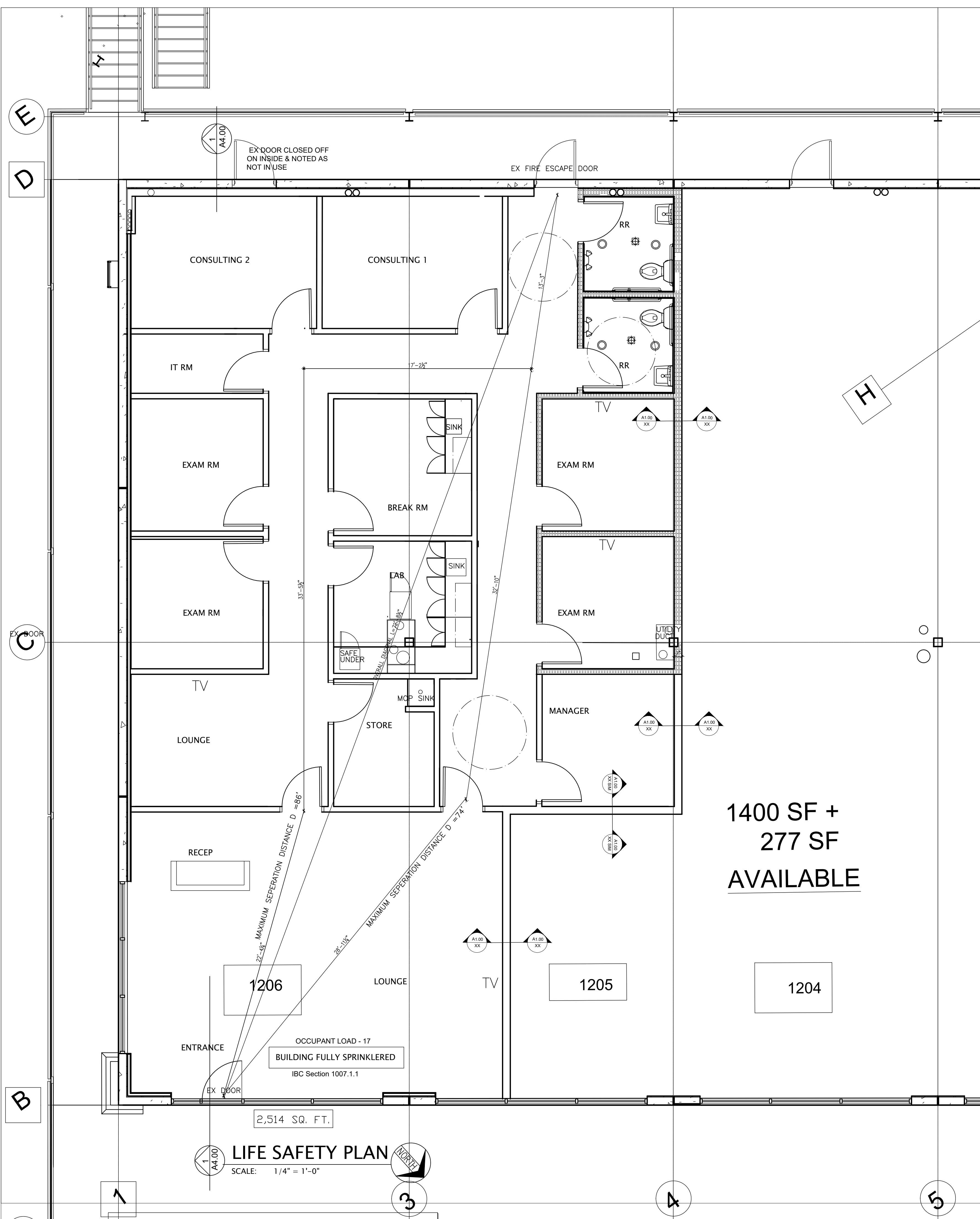
DATE	DESCRIPTION	BY

SCALE = 1" = 0"

PROJECT NO.
04-26-26

LIFE SAFETY PLAN & SHEET NO.
A1.00

A1.00

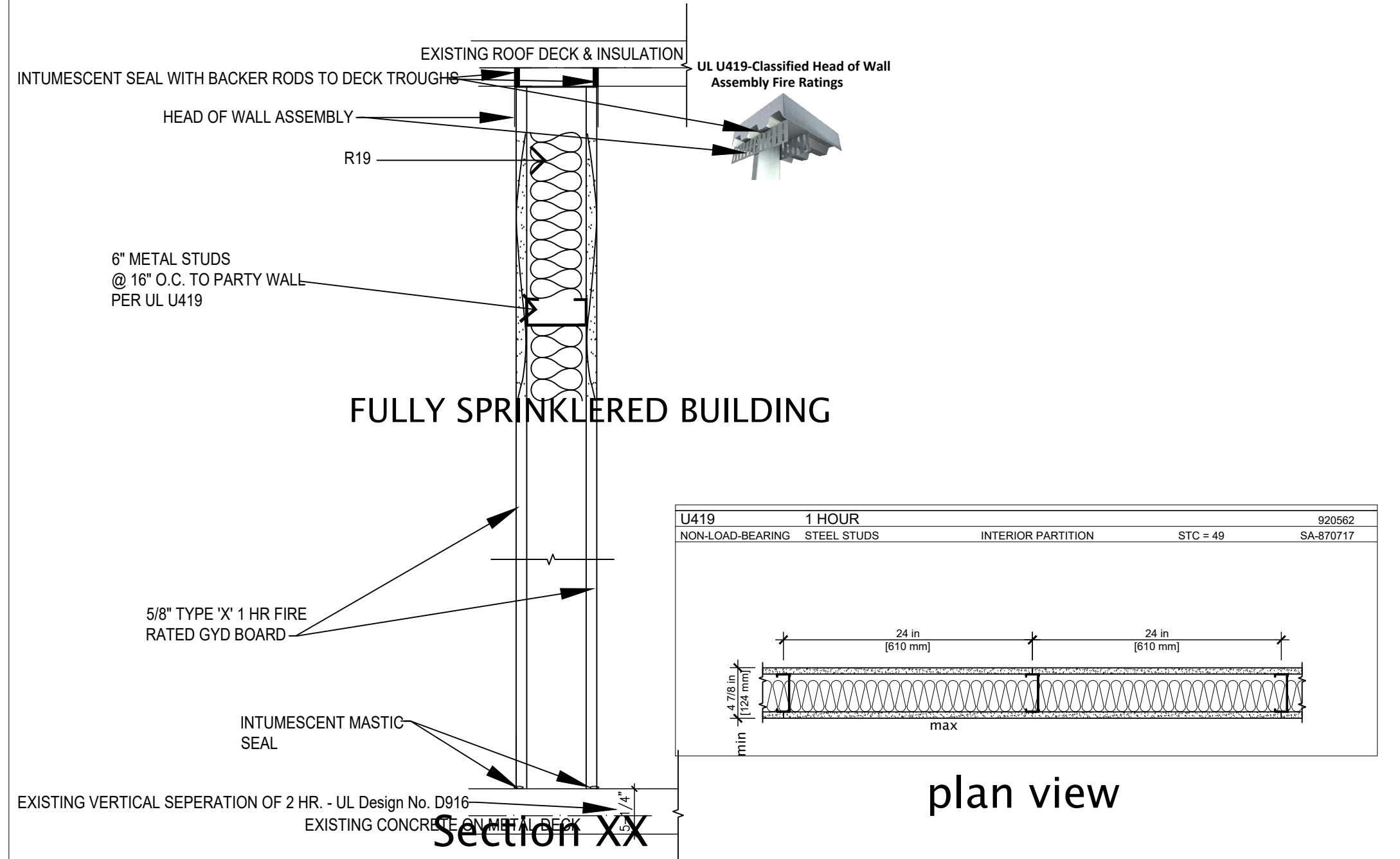
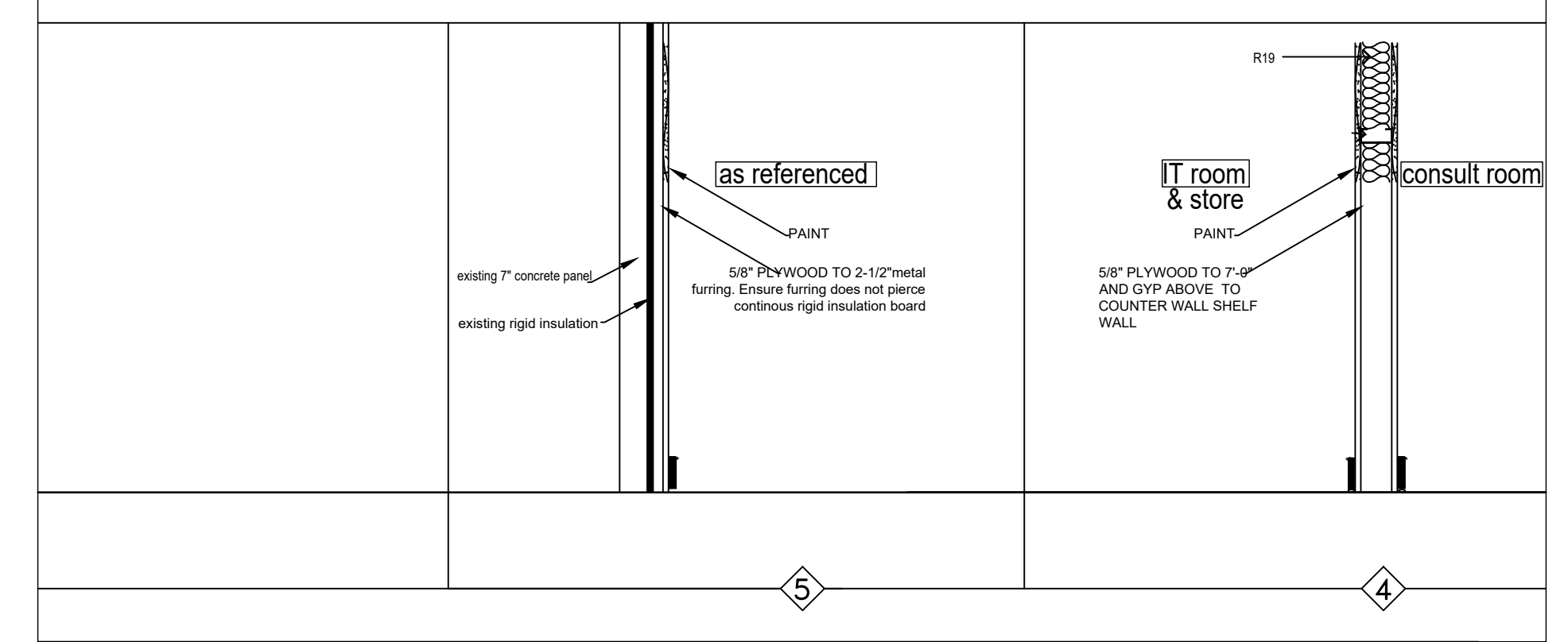
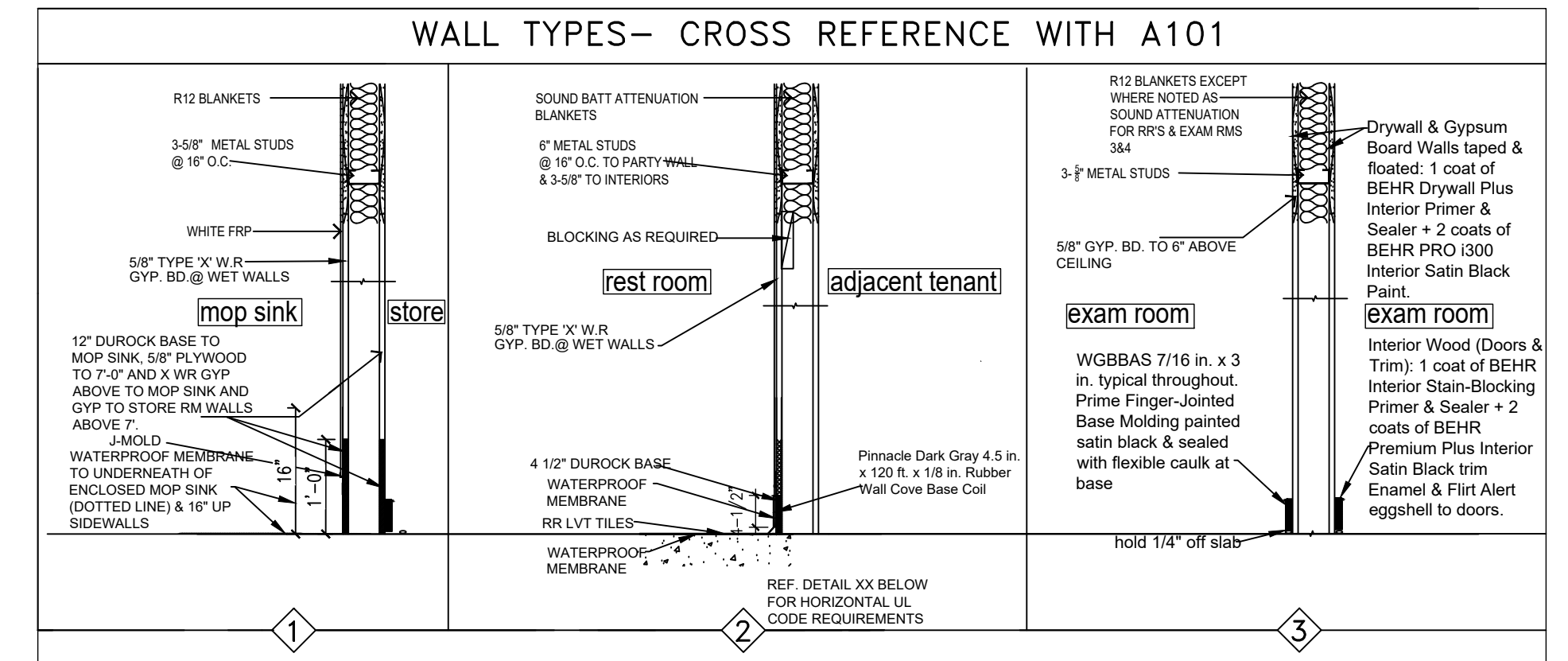


1400 SF +
277 SF
AVAILABLE

LIFE SAFETY PLAN
SCALE: 1/4" = 1'-0"

2,514 SQ. FT.

OCCUPANT LOAD - 17
BUILDING FULLY SPRINKLERED
IBC Section 1007.1.1



UL - U 419 Horizontal Separation Detail = 1 hr
(Vertical compliance UL Design No. D925 - Ex. concrete = 2 hr)



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 Structural, Mechanical and
 Electrical drawings are interrelated.
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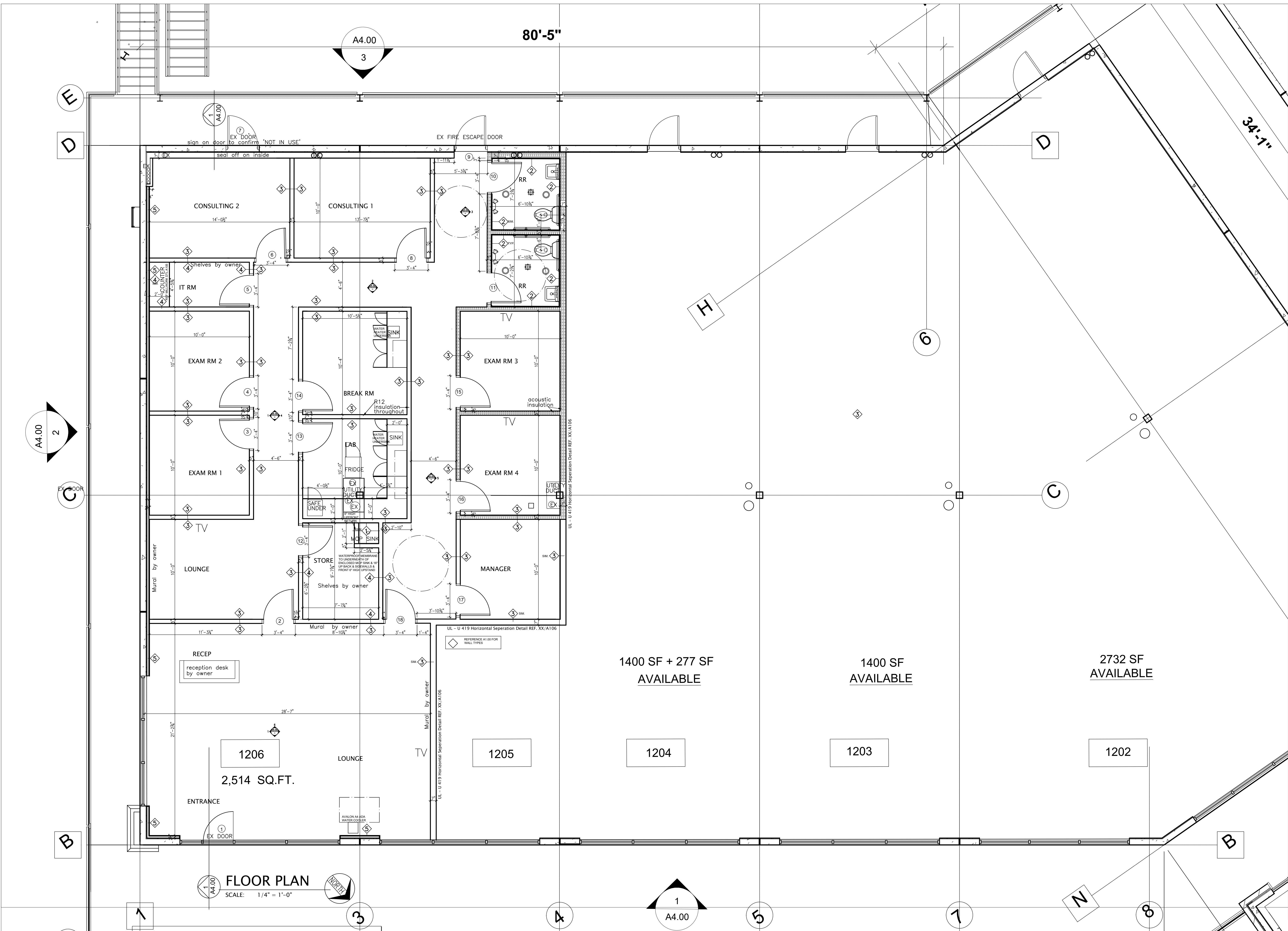
GAMEDAY
 190 Creekside Crossing,
 New Braunfels, 78130 Texas

DATE	DESCRIPTION	BY

SCALE
 1/4" = 1'-0"

PROJECT NO.
 04-26-26

SHEET NO.
 FLOOR PLAN
 A1.01



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

1400 SF + 277 SF
 AVAILABLE

1400 SF
 AVAILABLE

2732 SF
 AVAILABLE

1206
 2,514 SQ.FT.

1205

1204

1203

1202

1
 A4.00





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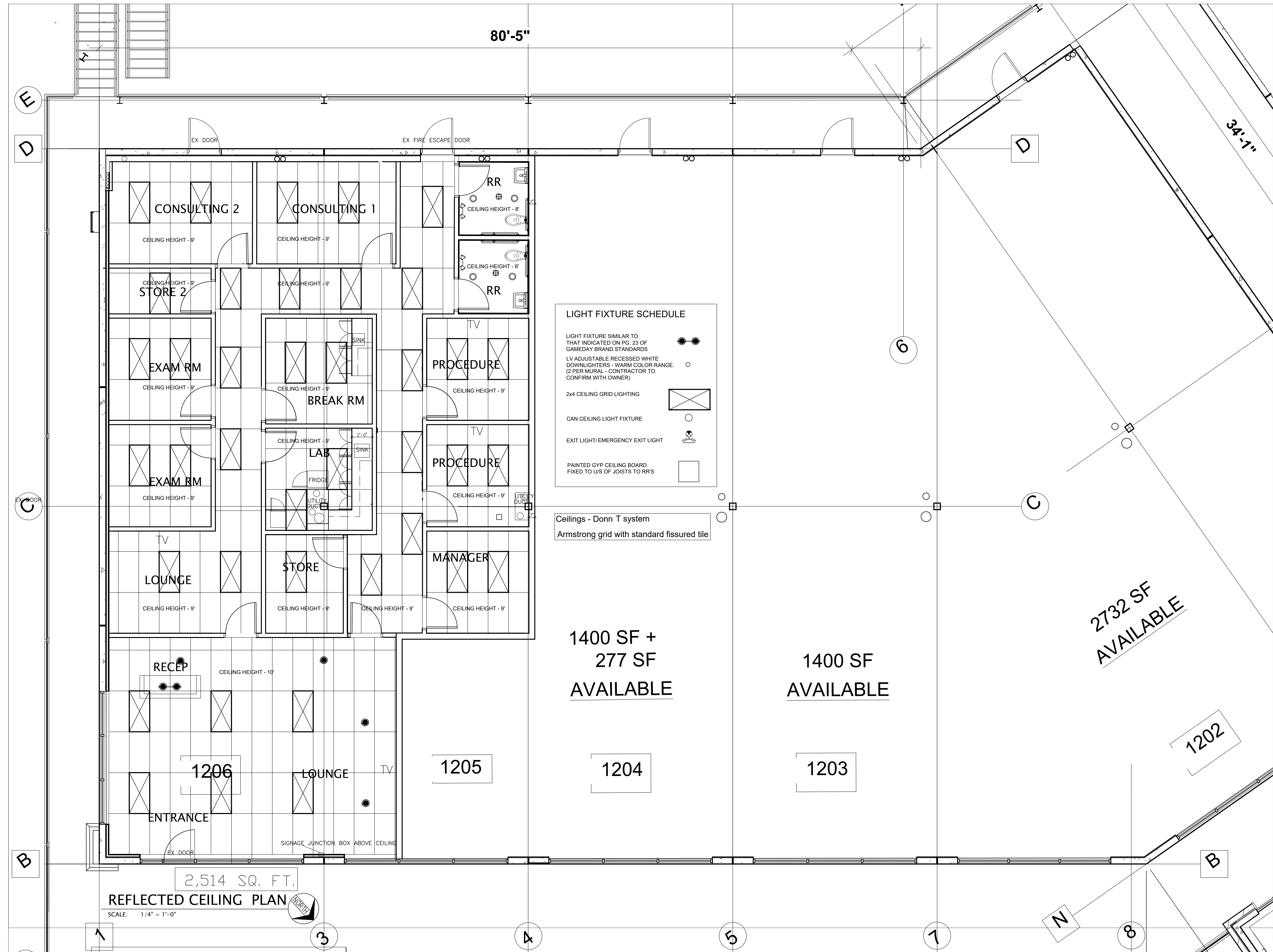
GAMEDAY
 190 Creekside Crossing,
 New Braunfels, 78130 Texas

DATE	DESCRIPTION	BY

SCALE
 1/4" = 1'-0"

PROJECT NO.
 04-26-26

SHEET NO.
 REFLECTED CEILING PLAN
 A2.00





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GAMEDAY
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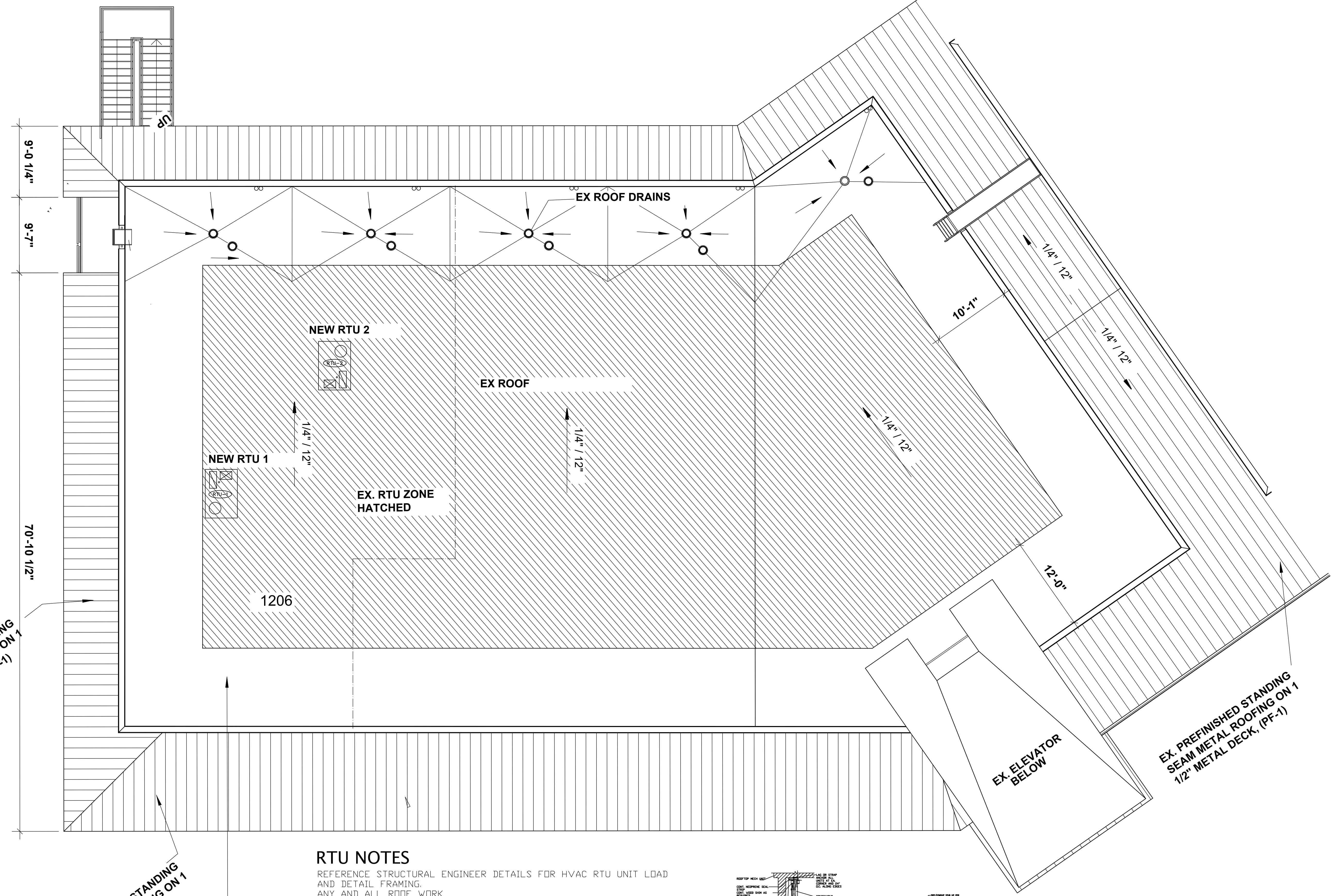
DATE	DESCRIPTION	BY

SCALE
 NTS

PROJECT NO.
 04-26-26

SHEET NO.
 ROOF PLAN

A3.00

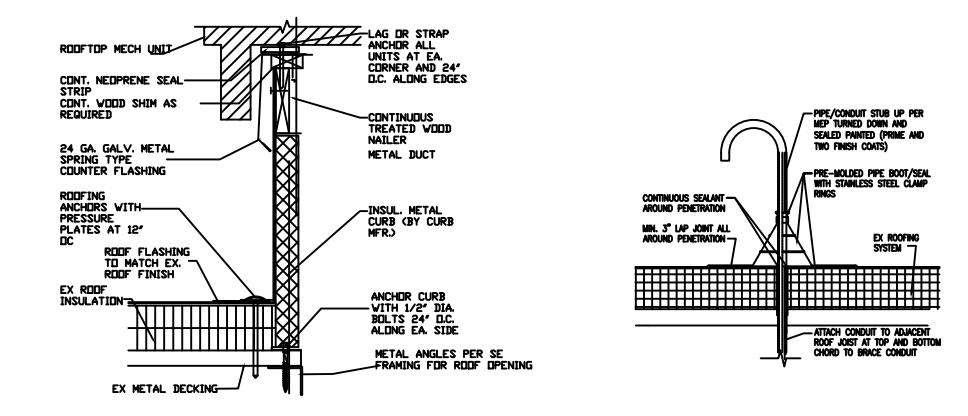


EX PREFINISHED STANDING SEAM METAL DECK, (PF-1)

EX PREFINISHED STANDING SEAM METAL DECK, (PF-1)
 EX SINGLE-PLY ROOF MEMBRANE OVER R-25 RIGID INSULATION BOARD ON 1-1/2" METAL DECK, RE: STRUCT.

RTU NOTES

REFERENCE STRUCTURAL ENGINEER DETAILS FOR HVAC RTU UNIT LOAD AND DETAIL FRAMING.
 ANY AND ALL ROOF WORK MUST BE COMPLETED BY A CERTIFIED CONTRACTOR FOR EXISTING SINGLE PLY ROOF MATERIAL. ROOF PATCHING/REPAIRS MUST BE INSPECTED BY THE ROOFING MANUFACTURER SO AS NOT TO VOID ANY WARRANTIES ALREADY IN PLACE. THE INSTALLING CONTRACTOR MUST TAKE PHOTOS BEFORE, DURING, AND AFTER ROOFING IS PATCHED/REPAIRED.
 ANY DAMAGE TO EXISTING UTILITIES AND/OR ASSOCIATED DAMAGES ARISING FROM DAMAGED UTILITIES, WHETHER SHOWN ON THE DRAWINGS OR NOT, WILL BE THE RESPONSIBILITY OF THE GC TO REMEDY.
 - Provide pour back details of any MEP trenching for approval by developer.

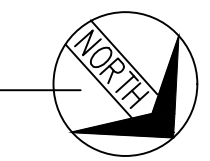


TYP RELATED DETAILS

SCALE: NTS

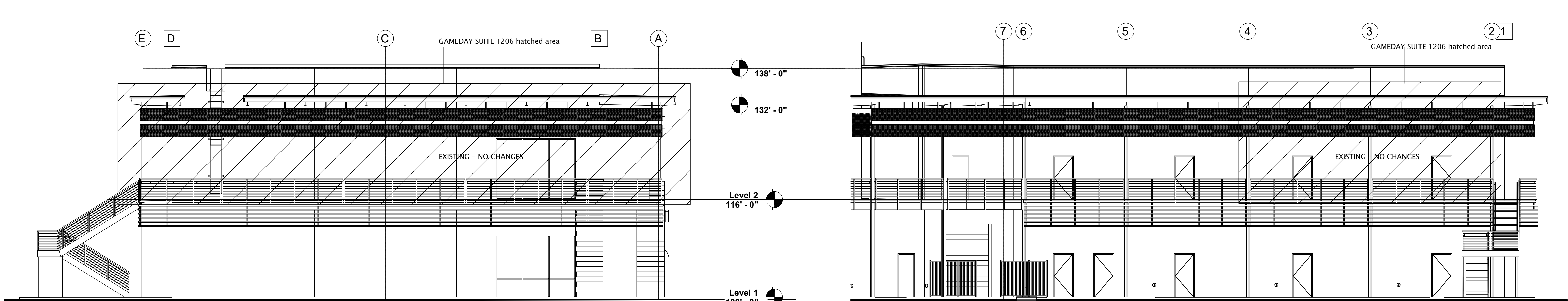
ROOF PLAN

SCALE: NTS





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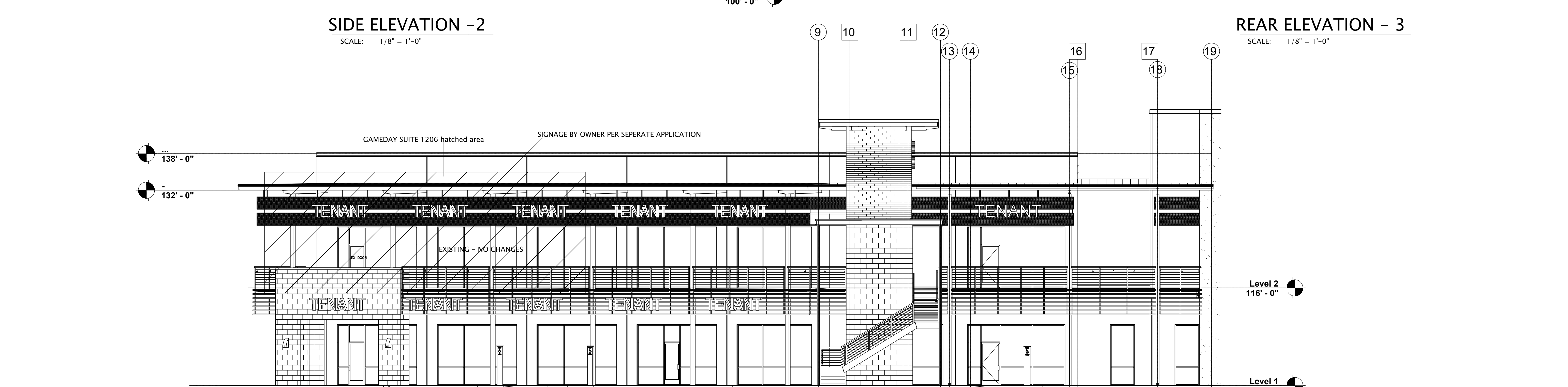


SIDE ELEVATION - 2

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

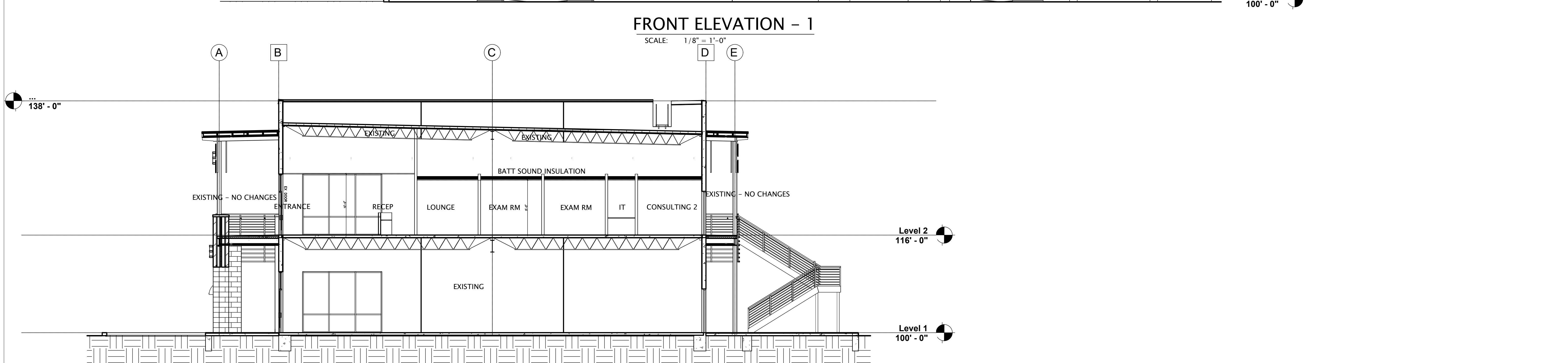
REAR ELEVATION - 3

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



FRONT ELEVATION - 1

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



SECTION 1

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

GAMEDAY
 190 Creekside Crossing,
 New Braunfels, 78130 Texas

DATE	DESCRIPTION	BY

SCALE
 1/8" = 1'-0"

PROJECT NO.
 04-26-26

SHEET NO.
 EXTERIOR ELEVATIONS
 AND SECTION
A4.00



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GAMEDAY
190 Creekside Crossing,
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BY	
DESCRIPTION	
DATE	

SCALE
AS NOTED

PROJECT NO.
04-26-26

SHEET NO.
INTERIOR ELEVATIONS,
ENLARGED RESTROOM DETAILS,
MILLWORK & SCHEDULES
A5.00

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

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

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

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

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

FIXTURE MOUNTING HEIGHT SCHEDULE

LAVATORIES (MEASURED FROM FLOOR TO RIM)
- ADULTS = 32" (30" MIN. KNEESPACE)
- HANDICAPPED = 34" MAX.
WATER CLOSETS (MEASURED FROM FLOOR TO TOP OF SEAT)
- ADULTS = 15"
- HANDICAPPED = 17" TO 19"
HANDICAPPED GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR)
- ADULTS = 34"
- HANDICAPPED = 40"
PAPER TOWEL DISPENSERS (MEASURED FROM FLOOR TO TOWEL SLOT)
- ADULTS = 40"
TOILET TISSUE DISPENSERS (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)
- ADULTS = 20"
SOAP DISPENSERS (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)
- ADULTS = 38"
- HANDICAPPED = 36"
MIRRORS (MEASURED FROM FLOOR TO BOTTOM OF MIRROR)
- ADULTS = 40"

RESTROOM SIGNAGE

OR EQUAL APPROVED BY OWNER

RESTROOM SIGN: BASED IMAGE: BLUE BACKGROUND; ALUMINUM 6" x 8" ACRYLIC PLASTIC (1) MEN, (1) WOMEN (SPACE TO MEET FOR REQUIREMENTS)

RESTROOM/ACCESSORY SCHEDULE OR EQUAL APPROVED BY OWNER

MARK	DESCRIPTION	MFR / MODEL	FURN. INST.	FINISH	REMARKS
R1	Behr Satin Black - 2x4x8 in. x 3 in. Fiberglass Reinforced Plastic (FRP) Panel	BEHR	CONTR	FRAMED MIRROR	
R2	GRAB BARS	BOBOCH-B-6306	CONTR	30" REAR / 42" SIDES X 1 1/2" DIA. BARS SHALL NOT ROTATE IN THEIR FITTINGS - STRENGTH SHALL COMPLY WITH SUB-SECTION 4.26.5 ADA-TAS	STAINLESS STEEL TEXTURE GRIP BLOCKING PER CODE
R3	Multicolor Wall Mount Single Paper Towel Dispenser	BOBOCH-B-5583-MBLK	CONTR	BLACK	ADA-TAS
R4	Shower Pan	Interroll # 25513465	CONTR	Stainless Steel	ADA-TAS
R5	15 or Single Wall Mount Soap Dispenser	Model # BT1034 - HOMEDEPOT	CONTR	BATH	ADA-TAS
R6	2-Door Full Backrest Restroom Paper Towel Dispenser and Waste Receptacle	Interroll # 82000800	CONTR	ADA-TAS	ADA-TAS
R7	2-Door Full Backrest Restroom Paper Towel Dispenser and Waste Receptacle	Model # FHS0015L - HOMEDEPOT	CONTR	ADA-TAS	ADA-TAS
R8	Koala Kure K8200-00 Horizontal Baby Changing Station / Table - Orange		CONTR	CREAM	ADA-TAS

GENERAL NOTES

- ALL CONSTRUCTION IS TO CONFORM TO LOCAL AND STATE BUILDING CODES AND ORDINANCES AND SHALL COMPLY WITH ANSI 117.1 & ADA ACCESSIBILITY GUIDELINES.
- G.C. TO PROVIDE & INSTALL THREE (3) FIRE EXTINGUISHERS AT LOCATIONS DIRECTED BY FIRE OFFICIAL.
- G.C. IS RESPONSIBLE FOR PROPER LOCATION OF ALL REQUIRED METAL STUDS & MISC. STEEL FRAMING AND ANY ADDITIONAL FRAMING AS REQUIRED.
- ALL CONSTRUCTION, INSTALLATION, ETC. SHALL BE PER INDUSTRY AND MANUFACTURER'S STANDARDS. G.C. TO PROVIDE TURNKEY PROJECT.

ROOM FINISH MATERIALS SCHEDULE

FLOOR
F1 Flooring should be LVT (Luxury vinyl tile) Color - Summit color
Owner contact - shawing | Showpad

BASE
B1 WGBBAS 7/16 in. x 3 in. from Homedepot Prime Finger-Jointed Base Molding painted Satin Black and install flexible caulk at base throughout
B2 Restrooms - Pineadec Dark Gray 4.5 in. x 120 ft. x 1/8 in. Rubber Wall Cove Base Coil from HomeDepot - seal at base

WALLS - Wall murals by Owner
W1 1/2" gypboard taped, floated & painted:
All Walls/Base & Door Trim: Behr Satin Black
EDUGAN@behr.com
(726) 228-1342
1066 CENTRAL PKWY SOUTH
SAN ANTONIO, TX 78232
<https://www.behr.com/pro/ColorDetailView/PPU26-01>

CEILING All ceiling material to be class A
C1 Armstrong OEA acoustic fissured 2x4' ceiling tile. White 9/16 metal grid to match
C2 Gypboard ceiling. Paint - One coat primer and 2 coats latex eggshell paint - Behr Imperial Gray

DOORS
D1 All solid core Door paint color - Behr FLIRT ALERT P150-7

STOREFRONT & DOOR TYPES

DOOR HARDWARE OR EQUAL APPROVED BY OWNER

Frame - Standard Knock down frame color per brand standard painted Behr Satin Black.
Door - solid core, point grade.

- UNDERCUT ALL INTERIOR DOORS 1" FROM FINISH FLOOR
- (1)CAL - ROYAL 4400 RM TYPE DOOR CLOSER FOR INTERNAL DOORS 2: 5, 12, 13, & 18)
(2)CAL - ROYAL 5000 TYPE EXIT DEVICE FOR EXIT DOORS IF REQUIRED

HARDWARE SETS:
TYPE 1
(DOORS 10 & 11 (Rest Rooms))
Single Door 803 Main
Single Door 404 Ferrule
Each door 3'0" x 7'0" x 1 1/2" W.D. x 1 1/2" H.D. - Solid core pointed
2 ea. Schlage ANSI - 07800 P10 with lever handle, Compadroom lock
* Locked or unlocked by key from outside + Push-button locking from inside
* Turn inside knob or close door to release button - inside knob has for immediate egress

Schlage
LCH
Rockwood
Rockwood
ASB
Compliance Signs
Compliance Signs
Showcraft

TYPE 2
(DOORS ALL OTHER INTERIOR DOORS)
OAKMOORE Commercial Door Handle Black - Grade 2 Lockset - Door Lever Schools Offices Industrial UL CUL & ADA - ANSI A156 (Passage (No Keys))
OAKMOORE Commercial Door Handle Black - Grade 2 Lockset - Door Lever Schools Offices Industrial UL CUL & ADA - ANSI A156 (Passage (No Keys))
Model Number Sacramento-Black
Manufacturer Oakmoore
UPC 63485528930
ASIN B0DJ1XP4MR

TYPE 1
(DOORS 5, 12 & 13 (IT, STORE & LAB))
OAKMOORE Commercial Door Handle Black - Grade 2 Lockset - Door Lever Schools Offices Industrial UL CUL & ADA - ANSI A156 (Passage (No Keys))
Model Number Sacramento-Black
Manufacturer Oakmoore
UPC 63485528930
ASIN B0DJ1XP4MR

TYPE 2
(DOORS 2, 5, 12, 13, & 18)
(2)CAL - ROYAL 5000 TYPE EXIT DEVICE FOR EXIT DOORS IF REQUIRED

TYPE 1
EX. STORE FRONT - If hardware switched out check with landlord as it may need to be mastered key

NOTE: EX FIRE DOOR #7 CLOSED OFF ON INSIDE & NOTED AS 'NOT IN USE' ON OUTSIDE

MILLWORK PLAN AND ELEVATIONS
SCALE: 1/4" = 1'-0"

TYPICAL COUNTER CROSS SECTION FOR LAB & IT ROOM

TYPICAL CABINET CROSS SECTION FOR LAB & BREAKROOM

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

INTERIOR ELEVATION 2
SCALE: 1/4" = 1'-0"

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

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

INTERIOR ELEVATION 5
SCALE: 1/4" = 1'-0"

INTERIOR ELEVATION 6
SCALE: 1/4" = 1'-0"

MASTER SPECIFICATIONS

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Section 01500 - Temporary Facilities and Controls
Section 01580 - Project Identification Signs
Section 01600 - Product Requirements
Section 01700 - Execution Requirements
Section 01720 - Construction Layout
Section 01780 - Closeout Submittals

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Section 05514 - Metal Ladders

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Section 06170 - Laminated Veneer Structural Timber
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Section 08214 - N/A
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- Section 11400 - Food Service Equipment (Installation)

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- Section 15100 - General Mechanical Requirements
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Section 16190 - Supporting Devices
Section 16195 - Electrical Identification
Section 16445 - Panelboards, Distribution and Branch Circuit
Section 16450 - Grounding
Section 16510 - Interior Building Lighting

The liability insurance purchased and maintained by Contractor in the minimum amounts as follows:

- (a) Workman's Compensation
(i) Workers' or workman's compensation - maximum permitted by statute.
(j) - Employer's Liability - \$1 million.
(b) Comprehensive General Liability

Bodily injury and property damage having a combined single limit of \$2 Million and including the following coverages:
(i) Comprehensive Form
(ii) Premises - Operations
(iii) Explosion and Collapse Hazard
(iv) Underground Hazard
(v) Products - Completed Operations, Hazard (which must be maintained for 2 years commencing with issuances of the final Certificate of Payment)
(vi) Broad Form Contractual Insurance
(vii) Broad Form Property Damage (extended to apply to completed operations)
(viii) Independent Contractors
(ix) Personal Injury (with employees and contractual exclusions deleted)

(c) Automobile Liability (Comprehensive Form) insuring contractor for operations of all owned, hired, and non-owned vehicle limit of \$2 Million.

(d) Umbrella Excess Liability: \$3 Million per occurrence / aggregate.

The Contractor shall furnish Builders Risk Insurance, including the perils of fire, extended coverage, vandalism, and malicious mischief in an amount of not less than 100% of the insurable value of all the work, and the coverage written on Builders Risk Coverage Form CP0020, including Causes of Loss Basic Form CP1010 or Causes of Loss - Broad Form CP1020 or Causes of Loss - Special Form CP1030 or an acceptable Inland Marine "All Risk" installation floater form, with a company authorized to do business in the state in which the project is located.
12.2.2.1(a) If during the Contractors one (1) year warranty after completion the Owner requests that tests be performed to determine if corrections in the Work need to be made, the expense of such tests shall be borne by (a) the Owner, if the results of the tests indicate that no corrections are necessary, or (b) the Contractor, if the results of the test indicate that corrections are necessary.

- 1. Article 13, paragraph 13.6.1:
13.6.1 Interest rate shall be at prevailing market rate

DIVISION 1 - GENERAL REQUIREMENTS

SECTION 01100 - SUMMARY OF WORK

3. WORK RESPONSIBILITY

A. Not in Contract (NIC): Items shown or noted "NIC" on the drawings and/or in the specifications shall be furnished and installed by Owner under separate contract, except as described hereinafter. The Contractor shall receive, unload as required, store, coordinate and accommodate the Owner's contractors during the Work and be responsible to the extent of carrying necessary insurance to cover items in case of theft, fire, loss, malicious damage and other miscellaneous damage. Contractor shall provide all conduits, boxes, chases, etc. as indicated on the drawings for a complete installation. Included, but not inclusive, in this category are:

- a. Security video System Contractor shall supply electrical service and wire chases with pull strings per plans and coordinate installation with Owner's agent. Contractor to provide adequate wood backing to install all necessary equipment.
b. Furnishings and decor shown on architectural drawings. Note: All millwork items shown on architectural drawings shall be the responsibility of the Contractor. Contractor shall submit shop drawings of same for owner approval.

k. Workmanship:

- 1) Graining: Where two metal surfaces are butt welded, grain shall run in the same direction.
2) Cove all intersections of vertical and horizontal sheet metal on a 5/8" radius unless otherwise indicated.

l. Fastening:

- 1) Provide nuts, bolts, and screws of American Standard unified screw thread design in stainless steel, only when sanitary fastenings are impossible. In all instances, use counter-sunk, flat, or oval head fasteners. round head fasteners are not acceptable.
2) Wherever bolt threads are exposed, or may come in contact with a wiping cloth, use stainless steel acorn nuts.

m. Welding: All welding shall be per AWS standards by electric arc method with rod of same composition as parts welded. make welds complete, strong, and ductile with rubble ground off and joints finished smooth, polished, and re-grained. Welds shall not be visible on continuous appearance. All welding shall be of a non-toxic nature when used on surfaces exposed to unpackaged food.

n. Grinding, Polishing, and Finishing: Any material sunken or depressed by welding operation shall be hammered and peened flush with adjacent surfaces and, if necessary, ground again to eliminate low spots. Surfaces showing evidence of warpage and/or burn discoloration will not be accepted. In all cases, textures from rough grinding shall be removed by successive finer polishing operations until the grain of the entire surface is homogeneous.

o. Equipment Adjustment: Contractor shall operate all food service equipment, test for leaks, proper connections, inadequate or faulty performance, calibrate and correct and adjust for proper operation. All thermostatically controlled equipment and equipment with automatic features shall be operated for a sufficient length of time to prove controls are functioning as intended. all food service plans, shop drawings, and equipment brochures are to remain at the store and be handed over to the Owner for future reference.

p. Testing: Contractor shall test all water and gas piping built within the Food service equipment for leaks using approved testing procedures.

q. Completion:

- 1) Contractor shall remove all protective coverings, tags, labels, and tape from equipment.
2) Contractor shall thoroughly clean and polish Owner furnished items.
3) Contractor shall place protective coverings on all equipment after cleaning until final acceptance of building then shall remove protective coverings.

5. MISCELLANEOUS PROVISIONS

6. NOTE: LANDLORD CONSTRUCTION COMPLIANCE RULES TO BE COMPLIED WITH.

A. Accessibility Compliance:

- 1. Full compliance with Uniform Federal Accessibility Standards (UFAS), and Americans with Disabilities Act (ADA), prohibiting discrimination on basis of disability by public accommodations, is required for Work of this Project.
2. This Project has been designed to and requires full compliance with ADA regulations, whether or not specific references or notes to regulations are made on Drawings or in Specifications.

6. PROJECT GENERAL NOTES

- A. Unless noted otherwise, all work in these drawings and specifications shall be performed by the Contractor.
B. The Contractor shall field verify all conditions and dimensions prior to any work and shall be responsible for all work and materials including those furnished by subcontractors. Contractor shall accept premises as found, Owner assumes no responsibility for the condition of the existing site or existing structures at the time of bidding or thereafter.
C. The Contractor is responsible for connecting any errors after the start of construction which has not been brought to the attention of the architect. The means of correcting any error shall first be approved by the Architect and Owner.
D. Dimensions take precedence over drawings. DO NOT SCALE DRAWINGS TO DETERMINE ANY LOCATIONS. The architect shall be notified if any discrepancy occurs prior to continuing with work.
E. All plan dimensions are from face of stud or face of masonry unless noted otherwise.
F. The Contractor shall report to the Owner and Architect any errors, inconsistencies, or omissions discovered.
G. All construction shall comply with the applicable building codes and local restrictions. The Contractor must comply with the Contractor registration requirements of all governing authorities.
H. The general building permits shall be paid for by the Owner. All other permits shall be secured and paid for by the subcontractor directly responsible. All required city, county, and/or state licenses shall be acquired and paid for by the individual subcontractor.
I. It shall be the responsibility of the Contractor to locate all existing utilities whether shown herein or not and to protect them from damage. The Contractor shall bear all expense of repair or replacement of utilities or other property damaged by operations in conjunction with the prosecution of the work.
J. The Contractor shall be responsible for and shall replace or remedy any faulty, improper, or inferior materials or workmanship which shall appear within one year or as otherwise specified for a specific component after the completion and acceptance of the work under this contract.
K. The Contractor is to provide blocking as required for mounting of booth tables, wall mounted shelves, cabinets, HC grab bars and partition braces, in addition to other requirements specified herein.

7. PROVIDE USE OF SITE AND PREMISES

- A. Contractor access to and from site as required by law and by Owner:
1. Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
2. Do not obstruct roadways, sidewalks, or other public ways without permit.
B. Utility Outages and Shutdowns:
1. Prevent accidental disruption of utility services to other

SECTION 01110 - WORK COVERED BY CONTRACT DOCUMENTS

1. INTENT OF DRAWINGS AND SPECIFICATIONS

A. The Contractor shall complete all Work as provided for in Contract Documents including Drawings and Specifications. Anything mentioned in the Specifications and not shown on the Drawings or shown on the Drawings and not mentioned in the Project Manual, shall be furnished and installed as if shown and mentioned in both. The Contractor shall furnish all materials or labor required to complete Work shown on the Drawings and called out in the specifications, to include labor and material requirements reasonably inferable therefrom as being necessary to complete the work, whether each and every single item necessary to completion is specified or detailed or not.

2. CONTRACTOR RESPONSIBILITY FOR WORK REQUIRED

A. The organization of the Specifications into Divisions, Sections and Paragraphs and the arrangement of the Drawings are not intended to control the Contractor in dividing the Work among Subcontractors or to establish the limits and extent of work to be performed by a particular trade. The Contractor alone is responsible for the completion of the entire work as drawn and specified, complete in place and in functional or operating conditions. The division of the specifications into sections and paragraphs is for convenience only and not for the purpose of limiting or restricting the performance of any portion of the Work to any particular trade.

DIVISION 1 - GENERAL REQUIREMENTS (CONTINUED)

SECTION 01300 - ADMINISTRATIVE REQUIREMENTS

5. CONSTRUCTION PROGRESS SCHEDULE

- A. Within 10 days after joint review, submit complete schedule.
B. Submit updated schedule with each Application For Payment.

6. PROGRESS PHOTOGRAPHS

- A. Submit each photographic application for payment, taken not more than 3 days prior to submission of application for payment.
B. Provide weekly photographs of site and construction throughout progress of Work to Architect

7. SUBMITTALS FOR OWNER REVIEW

9. SUBMITTALS FOR PROJECT CLOSEOUT

- A. When the following are specified in individual sections, submit them at project closeout:
1. Project record documents.
2. Operation and maintenance data.
3. Warranties.
4. Bonds.
5. Other types as indicated.

SECTION 01500 - TEMPORARY FACILITIES AND CONTROLS

1. TEMPORARY UTILITIES

A. Provide and pay for all electrical power, lighting, water, heating and cooling, and ventilation required for construction purposes.

2. TEMPORARY SANITARY FACILITIES

A. Provide and maintain required facilities and enclosures. Provide at time of project mobilization. Maintain daily in clean and sanitary condition.

4. SUBSTITUTION PROCEDURES

- A. Instructions to Bidders specify time restrictions for submitting requests for substitutions during the bidding period. Comply with requirements specified in this section.
B. Substitutions may be considered when a product becomes unavailable through no fault of the Contractor.
C. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents.
D. A request for substitution constitutes a representation that the submitter:
1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product.
2. Will provide the same warranty for the substitution as for the specified product.
3. Will coordinate installation and make changes to other Work which may be required for the Work to be complete with no additional cost to Owner.
4. Waives claims for additional costs or time extension which may subsequently become apparent.
E. Substitutions will not be considered when they are indicated or implied on shop drawing or product data submittals, without separate written request, or when acceptance will require revision to the Contract Documents.

7. STORAGE AND PROTECTION

- A. Designate receiving/storage areas for incoming products so that they are delivered according to installation schedule and placed convenient to work area in order to minimize waste due to excessive materials handling and misapplication.
B. Store and protect products in accordance with manufacturers' instructions with labels intact and legible.
C. Store sensitive products in weather tight, climate controlled, enclosures in an environment favorable to product.
D. For exterior storage of fabricated products, place on sloped supports above ground.
E. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.
F. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

SECTION 01400 - QUALITY REQUIREMENTS

1. REFERENCES AND STANDARD: For products and workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the current standard, except when more rigid requirements are specified or are required by applicable codes.
A. Should specified reference standards conflict with Contract Documents, request clarification from Owner's Project Coordinator before proceeding.

2. TESTING AND INSPECTION AGENCIES

A. General Contractor shall employ services of an, Owner-approved, independent testing agency to perform specified testing. Employment of agency in no way relieves Contractor of obligation to perform Work in accordance with requirements of Contract Documents.

4. CONTROL OF INSTALLATION

- A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.
B. Comply with manufacturers' instructions, including each step in sequence.
C. Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
D. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.

5. TOLERANCES

- A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.
B. Comply with manufacturers' tolerances. Should manufacturers' tolerances conflict with Contract Documents, request clarification from Owner's Project Coordinator before proceeding.

6. TESTING AND INSPECTION

A. Testing Agency Duties:

- 1. Provide qualified personnel at site. Cooperate with Owner's Project Coordinator and Contractor in performance of services.
2. Perform specified sampling and testing of products in accordance with specified standards.
3. Ascertain compliance of materials and mixes with requirements of Contract Documents.
4. Promptly notify Owner's Project Coordinator and Contractor of observed irregularities or non-conformance of Work or products.
5. Perform additional tests and inspections required by Owner's Project Coordinator.
6. Submit reports of all tests/inspections specified.
B. Limits on Testing/Inspection Agency Authority:
1. Agency may not release, revoke, alter, or enlarge on requirements of Contract Documents.
2. Agency may not approve or accept any portion of the Work, may not assume any duties of Contractor and has no authority to stop the Work.
C. Contractor Responsibilities:
1. Deliver to agency at designated location, adequate samples of materials proposed to be used which require testing, along with proposed mix designs.
2. Cooperate with laboratory personnel, and provide access to the Work and to manufacturers' facilities.
3. Provide incidental labor and facilities:
a. To obtain and handle samples at the site or at source of Products to be tested/inspected.
b. To facilitate tests/inspections.
c. To provide storage and curing of test samples.

- 4. Notify Owner's Project Coordinator and laboratory 24 hours prior to expected time for operations requiring testing/inspection services.
5. Employ services of an independent qualified testing laboratory and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.
D. Re-testing required because of non-conformance to specified requirements shall be performed by the same agency on instructions by Owner's Project Coordinator.

7. DEFECT ASSESSMENT

- A. Replace Work or portions of the Work not conforming to specified requirements.
B. If, in the opinion of Owner's Project Coordinator, it is not practical to remove and replace the Work, Owner's Project Coordinator will direct an appropriate remedy or adjust payment.

1. EXAMINATION

- A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.
B. Verify that existing substrate is capable of structural support or attachment of new work being applied or attached.
C. Verify that utility services are available, of the correct characteristics, and in the correct locations.
D. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.

2. PREPARATION

- A. Clean substrate surfaces prior to applying next material or substance.
B. Seal cracks or openings of substrate prior to applying next material or substance.
C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.

3. LAYING OUT THE WORK

- A. Verify locations of survey control points prior to starting work. Protect survey control points prior to starting site work; preserve permanent reference points during construction.
B. Promptly report to Owner the loss or destruction of any reference point or relocation required because of changes in grades or other relations.
C. Establish elevations, lines and levels. Locate and lay out by instrumentation and similar appropriate means:
1. Site improvements including pavements; stakes for grading, fill and topsoil placement; utility locations, slopes, and invert elevations.
2. Grid or axis for structures.
3. Building foundation, column locations, ground floor elevations, and plumbing.
D. Maintain a complete and accurate log of control and survey work as it progresses.

4. CUTTING AND PATCHING

- A. Execute cutting and patching including excavation and fill to complete the work, to uncover work in order to install improperly sequenced work, to remove and replace defective or non-conforming work, to remove samples of installed work for testing when requested, to provide openings in the work for penetration of mechanical and electrical work, to execute patching to complement adjacent work, and to fit products together to integrate with other work.
B. Execute work by methods to avoid damage to other work, and which will provide appropriate surfaces to receive patching and finishing.
C. Employ skilled and experienced installer to perform cutting for weather exposed and moisture resistant elements, and slight exposed surfaces.
D. Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior approval.
E. Restore work with new products in accordance with requirements of Contract Documents.
F. Fit work air tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
G. At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire rated material to full thickness of the penetrated element.
H. Refinish surfaces to match adjacent finish. For continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.



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DRAWING COORDINATION
Architectural, Landscape, Civil, Structural, Mechanical and Electrical drawings are interrelated. General Contractor and all Sub Contractors shall review and coordinate the entire set of drawings and specifications

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DIVISION 1 - GENERAL REQUIREMENTS (CONTINUED)

SECTION 01700 - EXECUTION REQUIREMENTS

5. PROGRESS CLEANING

- A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.
- B. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the space.
- C. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.
- D. Collect and remove waste materials, debris, and trash/rubbish from site weekly, and dispose off-site; do not burn or bury.

6. PROTECTION OF INSTALLED WORK

- A. Protect installed work from damage by construction operations.
- B. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.
- C. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.

7. SYSTEMS STARTUP

- A. Coordinate schedule for start-up of various equipment and systems.
- B. Verify that each piece of equipment or system has been checked for proper lubrication, drive rotation, belt tension, control sequence, and for conditions which may cause damage.
- C. Verify tests, meter readings, and specified electrical characteristics agree with those required by the equipment or system manufacturer.
- D. Verify that wiring and support components for equipment are complete and tested.
- E. Execute start-up under supervision of applicable Contractor personnel and manufacturer's representative in accordance with manufacturers' instructions.
- F. Submit a written report that equipment or system has been properly installed and is functioning correctly.

9. FINAL CLEANING

- A. Use cleaning materials that are non-hazardous.
- B. Clean interior and exterior glass, surfaces exposed to view; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.
- C. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.
- D. Clean filters of operating equipment.
- E. Clean debris from roofs, gutters, downspouts, and drainage systems.
- F. Clean site; sweep paved areas, rake clean landscaped surfaces.
- G. Remove waste, surplus materials, trash/rubbish, and construction facilities from the site; dispose of in legal manner; do not burn or bury.

SECTION 01780 - CLOSEOUT SUBMITTALS

1. SUBMITTALS

- A. Project Record Documents: Submit documents to Owner with claim for Final Application for Payment.
- B. Operation and Maintenance Data:
 - 1. Submit two copies of preliminary draft or proposed formats and outlines of contents before start of Work. Owner will review draft and return one copy with comments.
 - 2. For equipment, or component parts of equipment put into service during construction and operated by Owner, submit completed documents within ten days after acceptance.
 - 3. Submit two sets of revised final documents in final form within 10 days after final inspection.
- C. Warranties and Bonds:
 - 1. For equipment or component parts of equipment put into service during construction with Owner's permission, submit documents within ten days after acceptance.
 - 2. Make other submittals within ten days after Date of Substantial Completion, prior to final Application for Payment.
 - 3. For items of Work for which acceptance is delayed beyond Date of Substantial Completion, submit within ten days after acceptance, listing the date of acceptance as the beginning of the warranty period.

2. PROJECT RECORD DOCUMENTS

- A. Maintain on site one set of the following record documents; record actual revisions to the Work:
 - 1. Drawings.
 - 2. Specifications.
 - 3. Addenda.
 - 4. Change Orders and other modifications to the Contract.
 - 5. Reviewed shop drawings, product data, and samples.
 - 6. Manufacturer's instruction for assembly, installation, and adjusting.
- B. Ensure entries are complete and accurate, enabling future reference by Owner.
- C. Store record documents separate from documents used for construction.
- D. Record information concurrent with construction progress.
- E. Specifications: Legibly mark and record at each product section description of actual products installed, including the following:
 - 1. Manufacturer's name and product model and number.
 - 2. Product substitutions or alternates utilized.
 - 3. Changes made by Addenda and Modifications.
- F. Record Drawings and Shop Drawings: Legibly mark each item to record actual construction including:
 - 1. Measured depths of foundations in relation to finish first floor datum.
 - 2. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
 - 3. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.
 - 4. Field changes of dimension and detail.
 - 5. Details not on original Contract drawings.

5. OPERATION AND MAINTENANCE DATA FOR EQUIPMENT AND SYSTEMS

- A. For Each Item of Equipment and Each System:
 - 1. Description of unit or system, and component parts.
 - 2. Identify function, normal operating characteristics, and limiting conditions.
 - 3. Complete nomenclature and model number of replaceable parts.
- B. Panelboard Circuit Directories: Provide electrical service characteristics, controls, and communications; typed.
- C. Operating Procedures: Include start-up, break-in, and routine normal operating instructions and sequences. Include regulation, control, stopping, shut-down, and emergency instructions. Include summer, winter, and any special operating instructions.
- D. Maintenance Requirements: Include routine procedures and guide for preventative maintenance and troubleshooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.
- E. Include manufacturer's printed operation and maintenance instructions.
- F. Include sequence of operation by controls manufacturer.
- G. Provide original manufacturer's parts list, illustrations, assembly drawings, and diagrams required for maintenance.
- H. Provide framed information as follows. All information shall be framed in black metal frames.
 - 1. Subcontractor list and service company contact information (to be located in office)
 - 2. All warranty information (located in office)
 - 3. Legend and locations of labels on valves and knobs in mechanical room (located in mechanical room)
 - 4. Map of zones for irrigation system located with irrigation controls.

6. OPERATION AND MAINTENANCE MANUALS

- A. Prepare instructions and data by personnel experienced in maintenance and operation of described products in the form of an instructional manual.
- B. Binders: Commercial quality, 8-1/2 x 11 inch three D side ring binders with durable plastic covers; 2 inch maximum ring size. When multiple binders are used, correlate data into related consistent groupings.
- C. Cover: Identify each binder with typed or printed title OPERATION AND MAINTENANCE INSTRUCTIONS; identify title of Project; identify subject matter of contents.
- D. Provide tabbed dividers for each separate product and system, with typed description of product and major component parts of equipment.
- E. Arrange content by systems under section numbers and sequence of Table of Contents of this Project Manual.
- F. Contents: Prepare a Table of Contents for each volume, with each product or system description identified with tabbed dividers, in three parts as follows:
 - 1. Part 1: Directory, listing names, addresses, and telephone numbers of Architect/Engineer, Contractor, Subcontractors, and major equipment suppliers.
 - 2. Part 2: Operation and maintenance instructions, arranged by system and subdivided by specification section. For each category, identify names, addresses, and telephone numbers of Subcontractors and suppliers. Identify the following:
 - a. Significant design criteria.
 - b. List of equipment.
 - c. Parts list for each component.
 - d. Operating instructions.
 - e. Maintenance instructions for equipment and systems.
 - f. Maintenance instructions for special finishes, including recommended cleaning methods and materials, and special precautions identifying detrimental agents.
 - 3. Part 3: Project documents and certificates, including the following:
 - a. Shop drawings and product data.
 - b. Certificates.

CONCRETE - FLOOR ALTERNATE & UTILITY LEAVE OUT IN FILL IF REQUIRED

8. FINISHES

- A. Steel trowel finish shall be applied to all floor slabs in the building, unless otherwise noted.
- B. Light broom finish perpendicular to traffic shall be applied to all exterior walkways. A 3/4" transverse contraction joint shall be formed with a tool designed for that purpose at equal intervals not exceeding the width of the walkway. All edges adjoining the final ground line shall be rounded with a 1/4" edger. Expansion joints shall not exceed 20'.
- C. Concrete Sealer:
 - 1. Concrete Clear Sealer:
 - a. Concrete to be sealed must have aged a minimum of 28 days prior to sealer installation.
 - b. Immediately prior to applying concrete sealer, the concrete must be thoroughly cleaned. The surface should be swept then scrubbed using rotary floor machine. The surface must be rinsed after cleaning until the rinse water is completely clean. After drying, it should be inspected closely, and additional or spot cleaning should be performed if necessary.
 - c. Surfaces must be properly prepared as prescribed in manufacturer's instructions. Surrounding areas and adjacent surfaces must be masked or protected from overspray, spills, tracking, and equipment contact. The work area should be roped off and closed to traffic.
 - d. Immediately prior to use, the liquid material must be thoroughly power mixed as described in manufacturer's instructions. Application must be made full strength (un-thinned) at the coverage rate recommended and with equipment recommended by manufacturer's instructions.
 - e. Sealer must be applied thinly and uniformly. A wet edge should be maintained and overlap controlled. Material should not be over-applied or allowed to puddle or collect in joint indentations.
 - f. Sealer must be allowed to dry completely, normally a minimum of 12 to 48 hours, before it is subjected to temperatures below 42 degrees Fahrenheit or to water from any source.
 - D. Variation in concrete slabs shall not exceed 1/8" in ten feet from true grade.
 - E. All exposed concrete, except walkways and floor slabs, shall have a rubbed finish, satisfactory to the Owner's Project Coordinator. "White Washing" by use of separately mixed grout will not be permitted.

9. SHOP DRAWINGS

- A. The Contractor shall prepare and submit for review shop drawings according to the requirements of the General Conditions.

10. REINFORCEMENT

- A. Reinforcement shall be accurately placed and securely supported on metal or plastic chairs.

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10. REINFORCEMENT

- A. Reinforcement shall be accurately placed and securely supported on metal or plastic chairs.

DIVISION 5 - METALS

SECTION 05500 - METAL FABRICATIONS

1. SUMMARY

- A. Section Includes: Work of this Section consists of installing all materials furnished under this Section, including all equipment, labor, services, and incidental items required to complete Work as shown on Drawings and specified in this Section.
 - 1. Miscellaneous Framing and Supports for Work in other Sections to include applications where framing and supports are not specified in other Sections.

2. SUBMITTALS

- A. Welder certificates signed by Contractor certifying welders comply with requirements of this Section

3. QUALITY ASSURANCE

- A. Qualifications:
 - 1. Welding and Welders:
 - a. Qualify welding processes and welding operators in accordance with AWS D1.1, Structural Welding Code - Steel; D1.3, Structural Welding Code Sheet Steel; and D1.2, Structural Welding Code - Aluminum.
 - b. Certify each welder has satisfactorily passed AWS qualification tests for welding processes involved and if pertinent, has undergone recertification.

4. MATERIALS

- A. Ferrous Metals:
 - 1. Metal Surfaces - General: For fabrication of miscellaneous metal work which will be exposed to view, use only materials which are smooth and free of surface blemishes including pitting, seam marks, roller marks, rolled trade names, and roughness.
 - 2. Steel Plates, Shapes and Bars: ASTM A36.
 - 3. Steel Tubing: Cold-Formed, ASTM A500; Grade A, unless otherwise indicated or required for design loading.
 - 4. Steel Tubing: Hot-Formed, ASTM A501 for exterior installations and where indicated, provide with hot-dip galvanized coating per ASTM A53.
 - 5. Brackets, Flanges and Anchors: Cast or formed metal of same type material and finish as supported rails, unless otherwise indicated.
 - 6. Concrete Inserts:
 - a. Threaded or wedge-type; galvanized ferrous castings, either malleable iron, ASTM A47, or cast steel, ASTM -7.
 - b. Provide bolts, washers and shims as required, hot dip galvanized, ASTM A153.
 - c. Chain: 3/4 in. proof coil chain.
 - C. Grout:
 - 1. Non-shrink Nonmetallic Grout:
 - a. Pre-mixed, factory packaged, non-staining, non-corrosive, non-gaseous grout complying with CE CRD-C621.
 - b. Provide grout specifically recommended by manufacturer for interior and exterior applications of type specified in this Section.
 - D. Fasteners:
 - 1. General:
 - a. Provide hot-dipped galvanized fasteners for exterior use or where built into exterior walls.
 - b. Select fasteners for type, grade, and class required.
 - 2. Bolts and Nuts: Regular hexagon-head-type, ASTM A307, Grade A.
 - 3. Lag Bolts: Square-head-type, FS FF-B-561.
 - 4. Machine Screws: Cadmium plated steel, FS FF-S-92.
 - 5. Wood Screws: Flat head carbon steel, FS FF-S-11.
 - 6. Plain Washers: Round, carbon steel, FS FF-W-92.
 - 7. Drilled-In Expansion Anchors: Comply with FS FF-S-325, Group III (anchors, expansion, non-drilling), type 1 (internally threaded tubular expansion anchor) and machine bolts complying with FS FF-B-575, Grade 5.
 - 8. Toggle Bolts: Tumble-wing-type, FS FF-B-588, type, class, and style as required.
 - 9. Lock Washers: Helical-spring-type carbon steel, FS FF-W-84.

5. FABRICATION

- A. General:
 - 1. Form metal fabrications from materials of size, thickness, and shapes indicated, but not less than that needed to comply with performance requirements indicated.
 - 2. Work to dimensions indicated or accepted on shop drawings, using proven details of fabrication and support.
 - 3. Use type of materials indicated or specified for various components of each metal fabrication.
 - 4. Form exposed Work true to line and level with accurate angles and surfaces and straight sharp edges.
 - 5. Shear and punch metals cleanly and accurately; remove burrs.
 - 6. Ease exposed edges to radius of approximately 1/32 in.
 - 7. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing Work.
 - 8. Remove sharp or rough areas on exposed traffic surfaces.
 - 9. Welding:
 - a. Weld corners and seams continuously, complying with AWS recommendations.
 - b. Exposed Connections: Grind exposed welds smooth and flush to match and blend with adjoining surfaces.
 - 10. Anchorage:
 - a. Provide for anchorage of type indicated, coordinated with supporting structure.
 - b. Fabricate and space anchoring devices to provide adequate support for intended use.
- B.
 - 2. Cutting, Fitting, and Placement:
 - a. Perform as required for installation of miscellaneous metal fabrications.
 - b. Set Work accurately in location, alignment, and elevation, level, true and free of rack, measured from established lines and levels.
 - c. Provide temporary bracing or anchors in formwork for items which are to be built into concrete, masonry, or similar construction.
 - d. Fit exposed connections accurately together to form tight hairline joints.
 - e. Weld connections which are not to be left as exposed joints but cannot be shop welded because of shipping size limitations.
 - f. Grind exposed joints smooth.
 - g. Do not weld, cut, or abrade surfaces of exterior units which are intended for bolted or screwed field connections.
 - 3. Corrosion Protection: Coat concealed surfaces of aluminum that will come into contact with grout, concrete, masonry, wood, or dissimilar metals with heavy coat of bituminous paint or zinc chromate primer.

7. ADJUSTING AND CLEANING

- A. Touch-Up Painting:
 - 1. Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with same material as used for shop painting.
 - 2. Apply by brush or spray to provide mm. 20 mit DFT.



DRAWING COORDINATION
 Architectural, Landscape, Civil, Structural, Mechanical and Electrical drawings are interrelated. General Contractor and all Sub Contractors shall review and coordinate the entire set of drawings and specifications



190 Creekside Crossing,
 New Braunfels, 78130 Texas

DATE	DESCRIPTION	BY

SCALE
 NTS

PROJECT NO.
 04-26-26

SHEET NO.
 Specifications
 A7.00

DIVISION 9 - FINISHES

SECTION 09260 - GYPSUM BOARD ASSEMBLIES

1. SECTION INCLUDES
 - A.Metal stud wall framing.
 - B.Fire rated walls.
 - C.Acoustic insulation.
 - D.Tile / Base backer board.
 - E.Cementitious backer unit a hood wall.
 - F.Gypsum wallboard.
 - G.Joint treatment and accessories.
 2. REFERENCES
 - A.ANSI A108.11 - American National Standard for Interior Installation of Cementitious Backer Units; 1999 (R2005).
 - B.ANSI A118.9 - American National Standard Specifications for Test Methods and Specifications for Cementitious Backer Units; 1999 (R2005).
 - C.ASTM C 475/C 475M - Standard Specification for Joint Compound and Joint Tape For Finishing Gypsum Board; 2002.
 - D.ASTM C 645 - Standard Specification for Nonstructural Steel Framing Members; 2004a.
 - E.ASTM C 754 - Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products; 2004.
 - F.ASTM C 840 - Standard Specification for Application and Finishing of Gypsum Board; 2005.
 - G.ASTM C 1002 - Standard Specification For Steel Self-Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs; 2004.
 - H.ASTM C 1047 - Standard Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base; 2005.
 - I.ASTM C 1396/C 1396M - Standard Specification for Gypsum Board; 2004.
 - J.ASTM E 72 - Standard Test Methods of Conducting Strength Tests of Panels for Building Construction; 2005.
 3. METAL FRAMING MATERIALS
 - A.Non-Loadbearing Framing System Components: ASTM C 645; galvanized sheet steel, of size and properties necessary to comply with ASTM C 754 for the spacing indicated, with maximum deflection of wall framing of L/240 at 5 psf.
 - 1.Exception: The minimum metal thickness and section properties requirements of ASTM C 645 are waived provided steel of 40 ksi minimum yield strength is used, the metal is continuously dimpled, the effective thickness is at least twice the base metal thickness, and maximum stud heights are determined by testing in accordance with ASTM E 72 using assemblies specified by ASTM C 754.
 - 2.Studs: "C" shaped with flat or formed webs with knurled faces.
 - 3.Runners: U shaped, sized to match studs.
 - 4.Ceiling Channels: C shaped.
 - B.Furring Channels: USG furring channels, 7/8" deep, roll formed, hat shaped sections of galvanized steel.
 - C.Ceiling Hangers: Type and size as specified in ASTM C 754 for spacing required.
 - D.Partition Head to Structure Connections: Provide track fastened to structure with legs of sufficient length to accommodate deflection, for friction fit of studs cut short and fastened as indicated on drawings.
 4. GYPSUM BOARD MATERIALS
 - A.Manufacturers:
 - 1.BPB America Inc: www.bpb-na.com.
 - 2.G-P Gypsum Corporation: www.gp.com/gypsum.
 - 3.National Gypsum Company: www.nationalgypsum.com.
 - 4.USG: www.usg.com.
 - B.Gypsum Wallboard: ASTM C 1396/C 1396M. Sizes to minimize joints in place; ends square cut.
 - 1.Regular Type:
 - a.Application: Use for vertical surfaces, unless otherwise indicated.
 - b.Edges: Tapered.
 - 2.Fire Resistant Type: Complying with Type X requirements; UL or WH rated.
 - a.At Assemblies Indicated with Fire-Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X.
 - b.Thickness: 5/8 inch.
 - c.Edges: Tapered.
 - 3.Ceiling Board: Special sag-resistant type.
 - a.Application: Ceilings, unless otherwise indicated.
 - b.Thickness: 1/2 inch.
 - c.Edges: Tapered.
 - C.Water-Resistant Gypsum Backing Board: ASTM C 1396/C 1396M; ends square cut.
- 1.Application: Vertical surfaces behind thinset tile and pre-finished fiberglass panels in wet areas.
- 2.Core Type: Regular and Type X, as indicated.
- 3.Thickness: 5/8 inch.
- 4.Edges: Tapered.
5. TILE / BASE BACKER BOARD
 - A.Tile backer board panels: 5/8" thick, non-structural, fiberglass-faced, silicone treated moisture barrier, mold resistant gypsum core panel, "DensShield" tile backer board.
 - B.Joint Reinforcement: 2-inch-wide, coated fiberglass mesh tape.
 - C.Fasteners: Screws, 1-1/4-inch corrosion resistant; type specified by panel manufacturer for system used.
6. CEMENTITIOUS BACKER BOARD AT HOOD WALLS
 - A.Cementitious Backer Board: ANSI A118.9, aggregated portland cement panels with glass fiber mesh embedded in front and back surfaces, 5/8 inch thick.
7. ACCESSORIES
 - A.Acoustic Insulation: ASTM C 665; preformed glass fiber, friction fit type, unfaced.
 - B.Finishing Accessories: ASTM C 1047, galvanized steel, unless otherwise indicated.
- 1.Types: As detailed or required for finished appearance.
- C.Joint Materials: ASTM C 475 and as recommended by gypsum board manufacturer for project conditions.
- 1.Tape: 2-inch wide, coated glass fiber tape for joints and corners, except as otherwise indicated.
- 2.Tape: 2-inch wide, creased paper tape for joints and corners, except as otherwise indicated.
- 3.Ready-mixed vinyl-based joint compound.
- D.Screws: ASTM C 1002; self-piercing tapping type.
8. EXAMINATION
 - A.Verify that project conditions are appropriate for work of this section to commence.
9. FRAMING INSTALLATION
 - A.Metal Framing: Comply with ASTM C 754 and manufacturer's instructions.
 - B.Studs: Space studs as indicated.
 - 1.Extend partition framing as indicated.
 - 2.Partitions Terminating at Ceiling: Attach ceiling runner securely to ceiling track in accordance with manufacturer's instructions.

- 3.Partitions Terminating at Structure: Attach extended leg top runner to structure, maintain clearance between top of studs and structure, and brace both flanges of studs with continuous bridging.
- C.Wall Furring, Direct Attachment: Install asphalt felt protection strip between each furring channel and wall. Attach 7/8" hat channel horizontally to wall at 18"/24" o.c. with concrete stub nails spaced 18"/24" o.c. staggered on alternate wing flanges.
- D.Openings: Reinforce openings as required for weight of doors or operable panels, using not less than double studs at jams.
10. ACOUSTIC ACCESSORIES INSTALLATION
 - A.Acoustic Insulation: Place tightly within spaces, around cut openings, behind and around electrical and mechanical items within partitions, and tight to items passing through partitions.
 - B.Acoustic Sealant: Install in accordance with manufacturer's instructions.
11. GYPSUM BOARD INSTALLATION
 - A.Comply with ASTM C 840 and manufacturer's instructions. Install to minimize butt end joints, especially in highly visible locations.
 - B.Single-Layer Non-Rated: Install gypsum board in most economical direction, with ends and edges occurring over firm bearing.
 - C.Fire-Rated Construction: Install gypsum board in strict compliance with requirements of listing authority.
 - D.Cementitious Backing Board: Install over steel framing members at exhaust hood walls as indicated, in accordance with ANSI A108.11 and manufacturer's instructions.
 - E.Installation on Metal Framing: Use screws for attachment of all gypsum board.
 - F.Installation on Wood Framing: For rated assemblies, comply with requirements of listing authority. For non-rated assemblies, install as follows:
 - 1.Single-Layer Applications: Screw attachment.
 - G.Moisture Protection: Treat cut edges and holes in moisture resistant gypsum board with sealant.
12. INSTALLATION OF TRIM AND ACCESSORIES
 - A.Control Joints: Place control joints consistent with lines of building spaces and as follows:
 - 1.Not more than 30 feet apart on walls and ceilings over 50 feet long.
 - B.Corner Beads: Install at external corners, using longest practical lengths.
 13. JOINT TREATMENT
 - A.Finish all gypsum board in accordance with ASTM C 840 "Level 4" finish.
 - B.Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
 - 1.Feather coats of joint compound so that camber is maximum 1/32 inch.
 - 2.Taping, filling, and sanding is not required at surfaces behind adhesive applied ceramic tile and fixed cabinetry.
14. TOLERANCES
 - A.Maximum Variation of Finished Gypsum Board Surface from True Flatness: 1/8 inch in 10 feet in any direction.
14. INSTALLATION - GENERAL
 - A.Install waterproofing membrane at all wet areas in accordance with manufacturer's instructions and TCA Handbook recommendations.
 - B.Install tile and grout in accordance with applicable requirements of ANSI A108.1 through A108.13, manufacturer's instructions, and TCA Handbook recommendations.
 - C.Lay tile to pattern indicated. Do not interrupt tile pattern through openings.
 - D.Cut and fit tile to penetrations through tile, leaving sealant joint space. Form corners and bases neatly. Align floor joints.
 - E.Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make joints watertight, without voids, cracks, excess mortar, or excess grout.
 - F.Form internal angles square and external angles bulb-nosed.
 - G.Sound tile after setting. Replace hollow sounding units.
 - H.Keep expansion joints free of adhesive or grout. Apply sealant to joints.
 - I.Allow tile to set for a minimum of 48 hours prior to grouting.
 - J.Grout tile joints. Use standard grout unless otherwise indicated.
 - K.Apply sealant to junction of tile and dissimilar materials and junction of dissimilar planes.
15. INSTALLATION - FLOORS - THIN-SET METHODS
 - A.Diver interior concrete substrates, install in accordance with TCA Handbook Method F113, dry-set or latex-portland cement bond coat, with standard grout, unless otherwise indicated.
 1. Where epoxy bond coat and grout are indicated, install in accordance with TCA Handbook Method F131.
16. INSTALLATION - FLOORS - MORTAR BED METHODS
 - A.Diver interior concrete substrates, install in accordance with TCA Handbook Method F111, with cleavage membrane, unless otherwise indicated.
 - B.Cleavage Membrane: Lap edges and ends.
 - C.Mortar Bed Thickness: 1-1/4 inch.
17. INSTALLATION - WALL TILE
 - A.Diver tile backer board units install in accordance with TCA Handbook Method W223, organic adhesive.
18. CLEANING
 - A.Clean tile and grout surfaces.

SECTION 09511 - SUSPENDED ACOUSTICAL CEILINGS

1. SECTION INCLUDES
 - A.Suspended metal grid ceiling system.
 - B.Acoustical units.
2. REFERENCES
 - A.ASTM C 635 - Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems For Acoustical Tile and Lay-in Panel Ceilings; 2004.
 - B.ASTM C 636 - Standard Practice For Installation of Metal Ceiling Suspension Systems For Acoustical Tile and Lay-in Panels; 2004.
 - C.ASTM E 580 - Standard Practice For Application of Ceiling Suspension Systems For Acoustical Tile and Lay-in Panels in Areas Requiring Seismic Restraint; 2002.
 - D.ASTM E 1264 - Standard Classification for Acoustical Ceiling Products; 1998 (Reapproved 2005).
3. EXTRA MATERIALS
 - A.See Section 01600 - Product Requirements, for additional provisions.
 - B.Provide five percent of total acoustical unit area of each type of acoustical unit for Owner's use in maintenance of project.
4. ACOUSTICAL UNITS
 - A.Manufacturers:
 1. Refer to Finish Schedule on drawings for various product manufacturers.
 - B.Acoustical Units - General: ASTM E 1264, Class A.
 1. Models as scheduled on the construction documents.
5. SUSPENSION SYSTEMS
 - A.Manufacturers:
 1. USG; Product Donn DX: www.usg.com.
 - B.Suspension Systems - General: ASTM C 635; die cut and interlocking components, with stabilizer bars, clips, splices, perimeter moldings, and hold down clips as required.
6. ACCESSORIES
 - A.Support Channels and Hangers: Galvanized steel; size and type to suit application, seismic requirements, and ceiling system flatness requirement specified.
 - B.Perimeter Moldings: Same material and finish as grid.
 1. At Exposed Grid: Provide L-shaped molding for mounting at same elevation as face of grid.
7. INSTALLATION - SUSPENSION SYSTEM
 - A.Install suspension system in accordance with ASTM C 636, ASTM E 580, and manufacturer's instructions and as supplemented in this section.
 - B.Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1/360.
 - C.Install after major above-ceiling work is complete. Coordinate the location of hangers with other work.
 - D.Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.
 - E.Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.
 - F.Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.
 - G.Support fixture loads using supplementary hangers located within 6 inches of each corner, or support components independently.
 - H.Do not eccentrically load system or induce rotation of runners.
 - I.Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions.
 1. Use longest practical lengths.
 2. Overlap and rivet corners.
8. INSTALLATION - ACOUSTICAL UNITS
 - A.Install acoustical units in accordance with manufacturer's instructions.
 - B.Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.
 - C.Fit border trim neatly against abutting surfaces.
 - D.Install units after above-ceiling work is complete.
 - E.Install acoustical units level, in uniform plane, and free from twist, warp, and dents.
 - F.Cutting Acoustical Units:
 1. Make field cut edges of same profile as factory edges.

SECTION 09900 - PAINTS AND COATINGS

1. SECTION INCLUDES
 - A.Surface preparation.
 - B.Field application of paints, stains, varnishes, and other coatings.
2. DELIVERY, STORAGE, AND HANDLING
 - A.Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
 - B.Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
 - C.Paint Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.
3. ENVIRONMENTAL REQUIREMENTS
 - A.Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
 - B.Provide lighting level of 80 ft candles measured mid-height at substrate surface.
4. SUBMITTALS
 - A.Prepare two (2) color/texture samples for each color for each type of substrate to be painted or stained per SUBMITTALS.
 - B.Make samples not less than twelve inches (12") square.
 - C.Submit manufacturer's printed literature on each coating system to be used.
5. EXTRA MATERIALS
 - A.Supply 1 gallon of each color; store where directed.
 - B.Label each container with color in addition to the manufacturer's label.
6. MANUFACTURERS
 - A.Paint and Coating manufactures shall be as scheduled herein and on the drawings.
7. PAINTS AND COATINGS - GENERAL
 - A.Paints and Coatings: Ready mixed, except field-catalyzed coatings. Prepare pigments to a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating.
 - B.Volatile Organic Compound (VOC) Content:
 1. Provide coatings that comply with the most stringent requirements specified in 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings.
8. EXAMINATION
 - A.Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.
 - B.Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
 1. Wood: 15 percent, measured in accordance with ASTM D 4442.
 9. PREPARATION
 - A.Surfaces: Correct defects and clean surfaces which affect work of this section.
 - B.Marks: Seal with shellac those which may bleed through surface finishes.
 - C.Impervious Surfaces: Remove mildew by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
 - D.Gypsum Board Surfaces to be Painted: Fill minor defects with filler compound. Spot prime defects after repair. Gypsum ceiling surfaces in all Public areas are required to have a Level 5 finish surface; do not start painting until surface finish level is verified. Beginning of painting gypsum indicates acceptance of surface.
 - E.Aluminum Surfaces to be Painted: Remove surface contamination by steam or high-pressure water. Remove oxidation with acid etch and solvent washing. Apply etching primer immediately following cleaning.
 - F.Galvanized Surfaces to be Painted: Remove surface contamination and oils and wash with solvent. Apply coat of etching primer.
 - G.Uncoated Steel and Iron Surfaces to be Painted: Remove grease, mill scale, weld splatter, dirt, and rust. Prime paint entire surface; spot prime after repairs.
 - H.Interior Wood Items to Receive Opaque Finish: Wipe off dust and grit prior to priming. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after primer has dried; sand between coats. Back prime concealed surfaces before installation.
 - I. Interior Wood Items to Receive Transparent Finish: Wipe off dust and grit prior to sealing. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after sealer has dried; sand lightly between coats. Prime concealed surfaces with gloss finish. Seal wood edges with primer. Seal wood door top and bottom edge surfaces with clear sealer, primer.
 - K. Metal Doors to be Painted: Prime metal door top and bottom edge surfaces.
 10. APPLICATION
 - A. Apply products in accordance with manufacturer's instructions.
 - B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
 - C. Apply each coat to uniform appearance. Apply each coat of paint slightly darker than preceding coat unless otherwise approved.
 - D. Sand wood and metal surfaces lightly between coats to achieve required finish.
 - E. Where clear finishes are required, tint fillers to match wood. Work fillers into the grain before set. Wipe excess from surface.
 - F. Coverage coats noted herein are minimum requirements. Contractor shall provide additional coats as needed for complete coverage.
 11. FINISHING MECHANICAL AND ELECTRICAL EQUIPMENT
 - A. Painting mechanical and electrical work is limited to items exposed in occupied spaces unless noted otherwise.
 - B. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.

- 12.SCHEDULE - SURFACES TO BE FINISHED
 - A.Do Not Paint or Finish the Following Items:
 1. Items fully factory-finished unless specifically noted.
 2. Fire rating labels, equipment serial number and capacity labels.
 - B.Mechanical and Electrical: Use paint systems defined for the substrates to be finished.
 1. Paint all insulated and exposed pipes, conduit, boxes, hangers, brackets, collars and supports, mechanical equipment, and electrical equipment occurring in finished areas, unless otherwise indicated.
 2. Paint shop-primed items occurring in finished areas.
 3. Paint interior surfaces of air ducts and convactor and baseboard heating cabinets that are visible through grilles and louvers with one coat of flat black paint to visible surfaces.
 4. Paint dampers exposed behind louvers, grilles, and convactor and baseboard cabinets to match face panels.
 - C.Paint both sides and edges of plywood backboards for electrical and telephone equipment before installing equipment.
- 13.TENTATIVE PAINT LIST: Where any particular application is not mentioned in this list, Contractor shall figure an application of manufacturer's specification for application which is consistent with types and qualities listed herein. Colors are indicated on drawings.

EXTERIOR SURFACES

 - 14.Natural Woods - "Stained"
 - Sherwin Williams:
 - 1st Coat: S-W WoodScapes House Stain Exterior Polyurethane SemiTransparent Stain, A15T5
 - 2nd Coat: Same as 1st Coat
 - 3rd Coat: Marine Varnish, Satin Finish
 - Glidden Professional:
 - 1st Coat: Glidden Professional 2710 WOODPRIDE Exterior Oil/AlkydSemi-Transparent Deck & Siding Stain
 - 2nd Coat: Same as 1st Coat
 - 3rd Coat: Glidden Professional 1907 WOODPRIDE Spar Urethane
 - 15.Ferrous Metals and Exposed Gas Lines
 - Sherwin Williams:
 - 1st Coat: S-W > 0 VOC Acrylic Satin, B66-660 Series
 - 2nd Coat: Same as 1st Coat
 - Glidden Professional:
 - 1st Coat: Devco Coatings 4212 DEVFLEX HP Eggshell
 - 2nd Coat: Same as 1st Coat
 - 16.Unit Masonry
 - Sherwin Williams:
 - 1st Coat: S-W Loxon Concrete & Masonry Interior/Exterior Latex Primer, A24W8300
 - 2nd Coat: S-W DTM Acrylic Semi-Gloss, B66-200 Series
 - 3rd Coat: Same as 2nd Coat
 - Glidden Professional:
 - 1st Coat: Fill with Glidden Professional Concrete Coatings Block Filler 3010-1200 to DFT of 9.0 to 13.6 Mils. Ensure coverage is consistent.
 - 2nd Coat: Finish with Glidden Professional Fortis 450 Exterior 100% Acrylic Satin 6403
 - 3rd Coat: Same as 2nd Coat
 - 17.Pre-Painted Equipment (Rooftop Equipment, Transformers, Etc.)
 - Sherwin Williams:
 - 1st Coat: S-W DTM Acrylic Semi-Gloss, B66-200 Series
 - 2nd Coat: Same as 1st Coat
 - Glidden Professional:
 - 1st Coat: Devco Coatings 4216.DEVFLEX HP Semi-Gloss
 - 2nd Coat: Same as 1st Coat
 - 18.Pre-Primed Metal Doors and Frames
 - Sherwin Williams:
 - 1st Coat: S-W DTM Acrylic Semi-Gloss, B66-200 Series
 - 2nd Coat: Same as 1st Coat
 - Glidden Professional:
 - 1st Coat: Devco Coatings 4216.DEVFLEX HP Semi-Gloss
 - 2nd Coat: Same as 1st Coat
 - 19.Stucco & EIFS
 - Sherwin Williams:
 - 1st Coat: S-W Loxon Concrete & Masonry Interior/Exterior Latex Primer A24W8300
 - 2nd Coat: S-W ConFlex High Build Coating, A5-400 Series
 - 3rd Coat: Same as 2nd Coat
 - Glidden Professional:
 - 1st Coat: Glidden Professional Hydrosealer 6001 primecoat
 - 2nd Coat: Glidden Professional Fortis 450 Exterior 100% Acrylic Satin 6403
 - 3rd Coat: Same as 2nd Coat
- INTERIOR SURFACES**
 1. Wood Trim - "Painted"
 - Sherwin Williams:
 - 1st Coat:S-W Multi-Purpose Interior/Exterior Latex Primer B51W8020 Series
 - 2nd Coat: S-W DTM Acrylic, Semi-Gloss, B666-200 Series
 - 3rd Coat: Same as 2nd Coat
 - Glidden Professional:
 - 1st Coat:Glidden Professional 3210 Gripper Multi-Purpose Primer
 - 2nd Coat: Devco Coatings 4216 HP Semi-Gloss
 - 3rd Coat: Same as 2nd Coat
 2. Wood Trim - "Stained"
 - Sherwin Williams:
 - 1st Coat:Minwax Pre-Stain Wood Conditioner, 154-8866
 - 2nd Coat: S-W WoodClassics Oil Stain, A49 Series
 - 3rd Coat: S-W WoodClassics Waterborne Polyurethane Varnish, A6BF90 Series, Satin
 - Glidden Professional:
 - 1st Coat:Minwax Pre-Stain Wood Conditioner, 154-8866
 - 2nd Coat: Glidden Professional 1700 WOODPRIDE Interior Wood Finishing Stain
 - 3rd Coat: Glidden Professional 1902 WOODPRIDE Interior Polyurethane Satin Varnish



MLA
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REGISTERED ARCHITECT
STATE OF TEXAS
NO. 04-24-2026

DRAWING COORDINATION
Architectural, Landscape, Civil, Structural, Mechanical and Electrical drawings are interrelated. General Contractor and all Sub Contractors shall review and coordinate the entire set of drawings and specifications

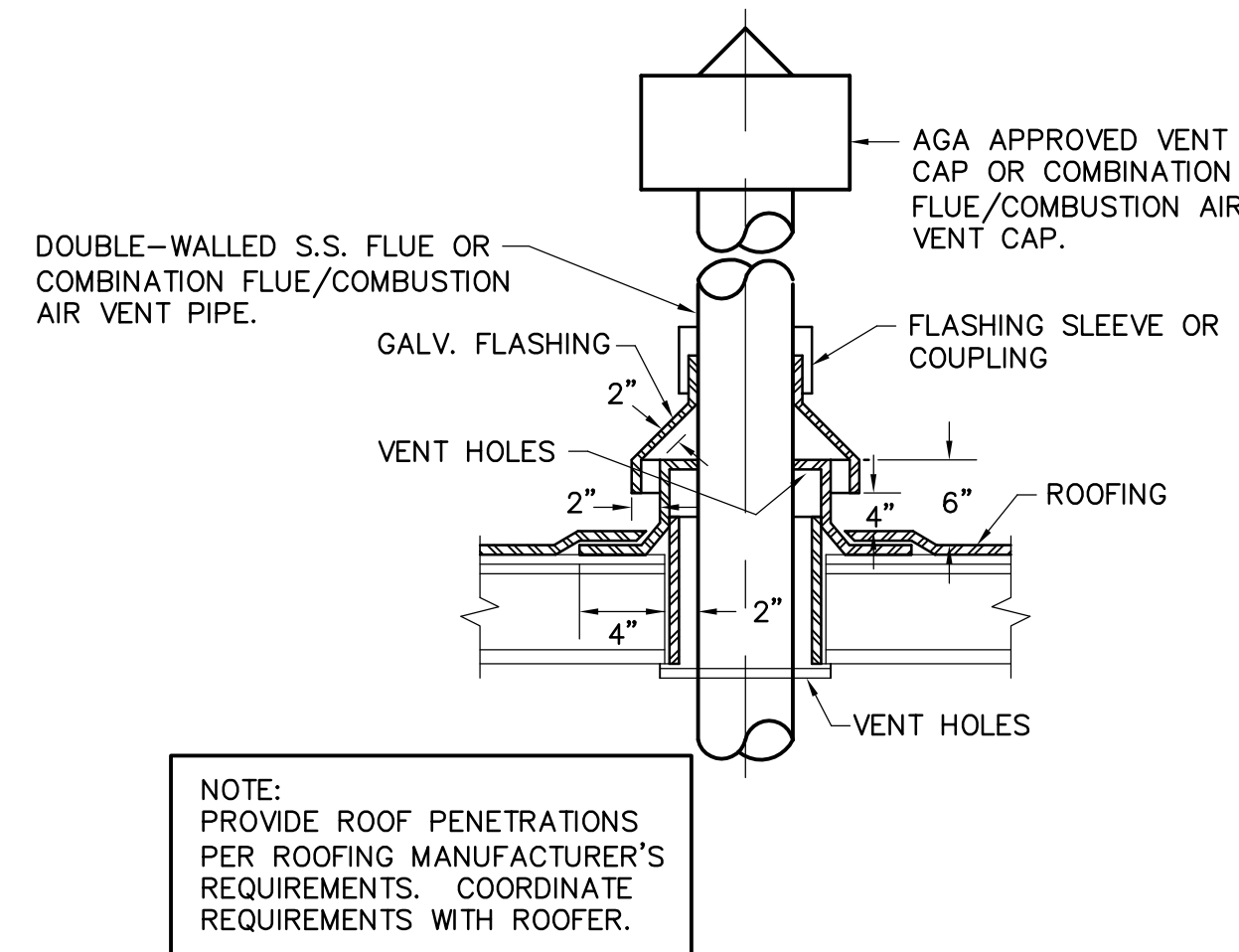
GAMEDAY
 190 Creekside Crossing,
 New Braunfels, 78130 Texas

DATE	BY	DESCRIPTION

SCALE
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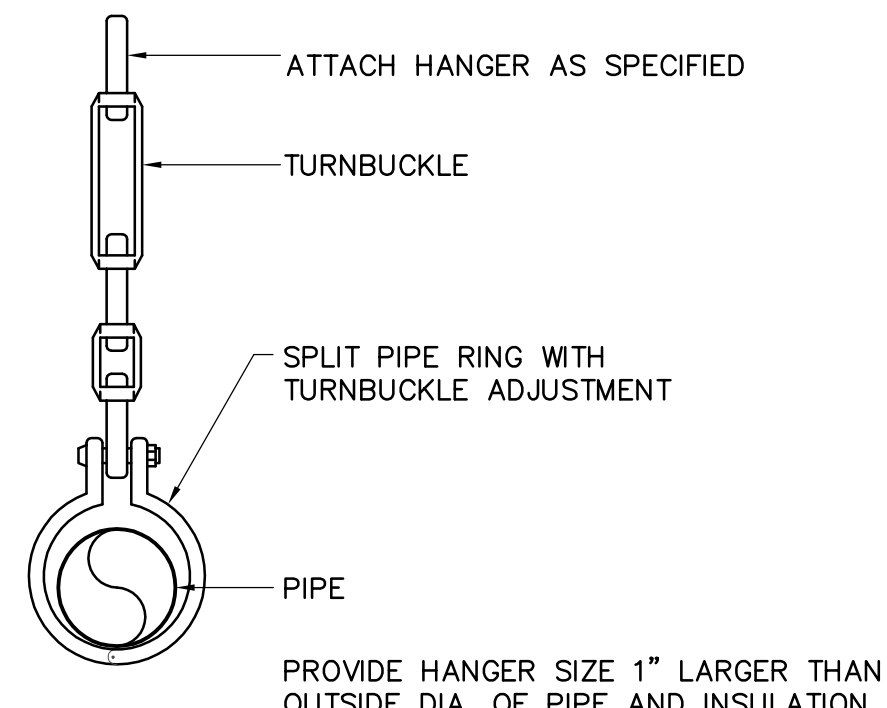
PROJECT NO.
04-26-26

SHEET NO.
Specifications
A8.00



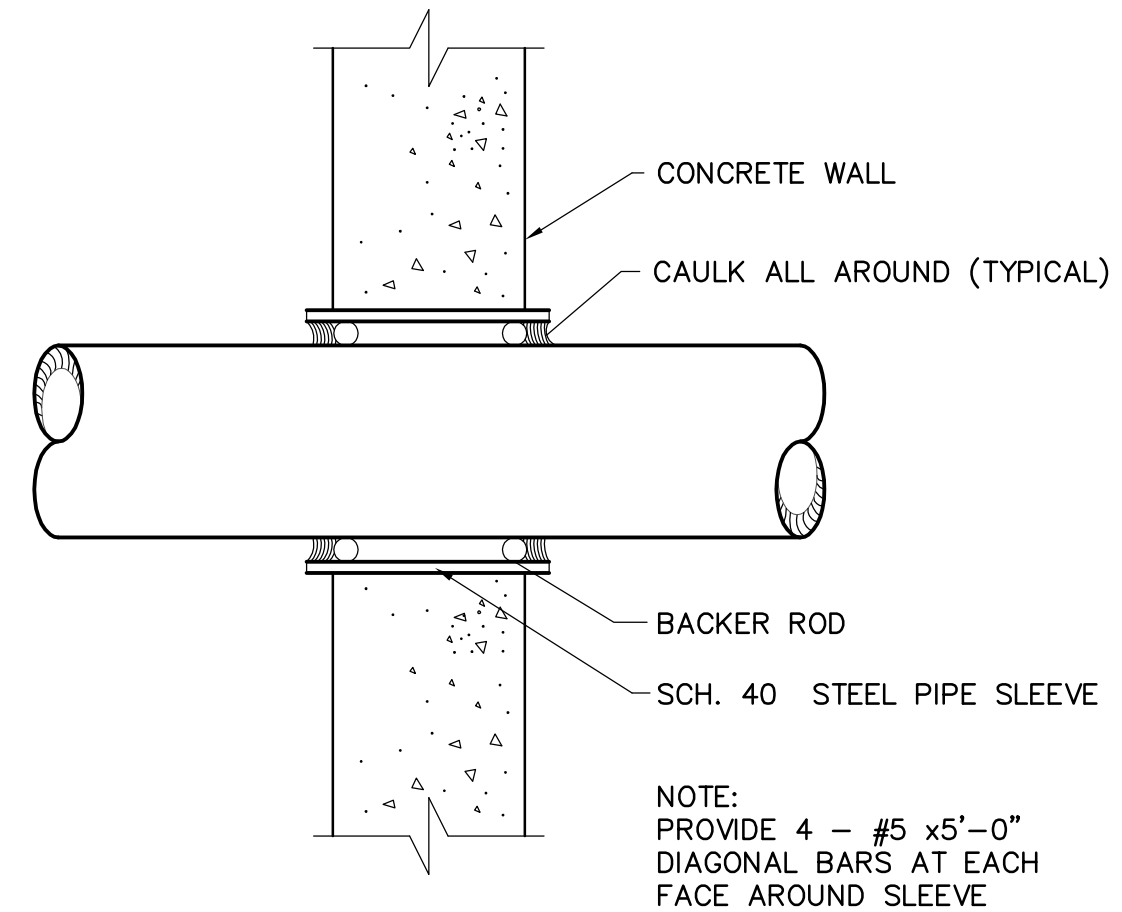
NOTE: PROVIDE ROOF PENETRATIONS PER ROOFING MANUFACTURER'S REQUIREMENTS. COORDINATE REQUIREMENTS WITH ROOFER.

7 FLUE THRU ROOF DETAIL
NO SCALE



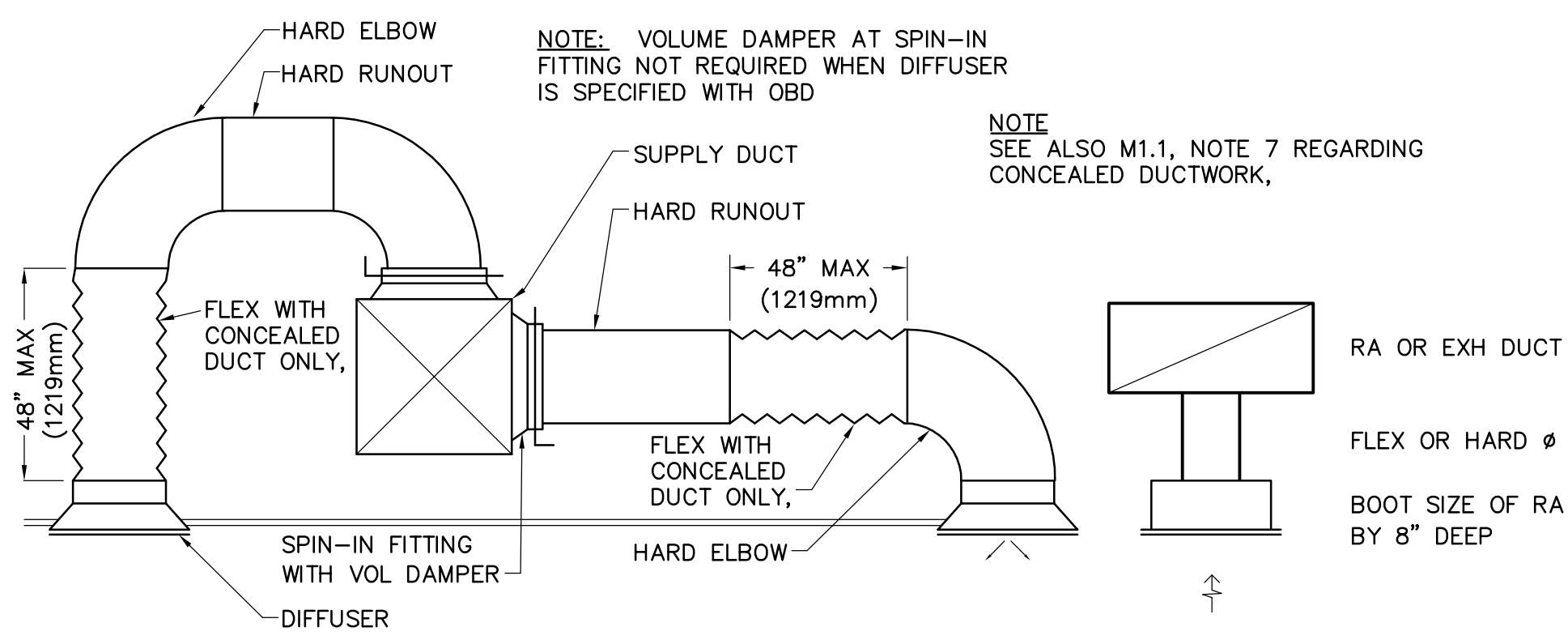
PROVIDE HANGER SIZE 1" LARGER THAN OUTSIDE DIA. OF PIPE AND INSULATION.

8 PIPE HANGER DETAIL
NO SCALE



NOTE: PROVIDE 4 - #5 x5'-0" DIAGONAL BARS AT EACH FACE AROUND SLEEVE

6 PIPE SLEEVE THRU WALL DETAIL
NO SCALE

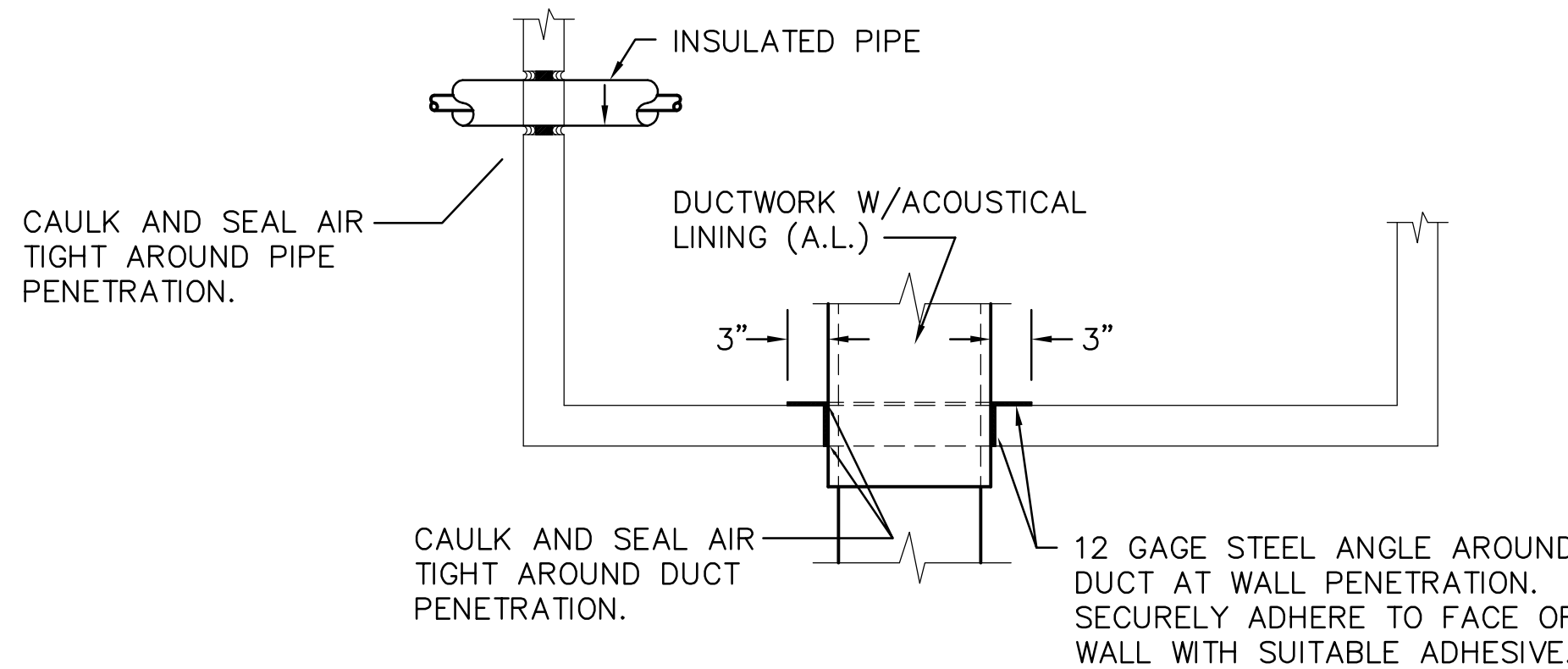


NOTE: VOLUME DAMPER AT SPIN-IN FITTING NOT REQUIRED WHEN DIFFUSER IS SPECIFIED WITH OBD

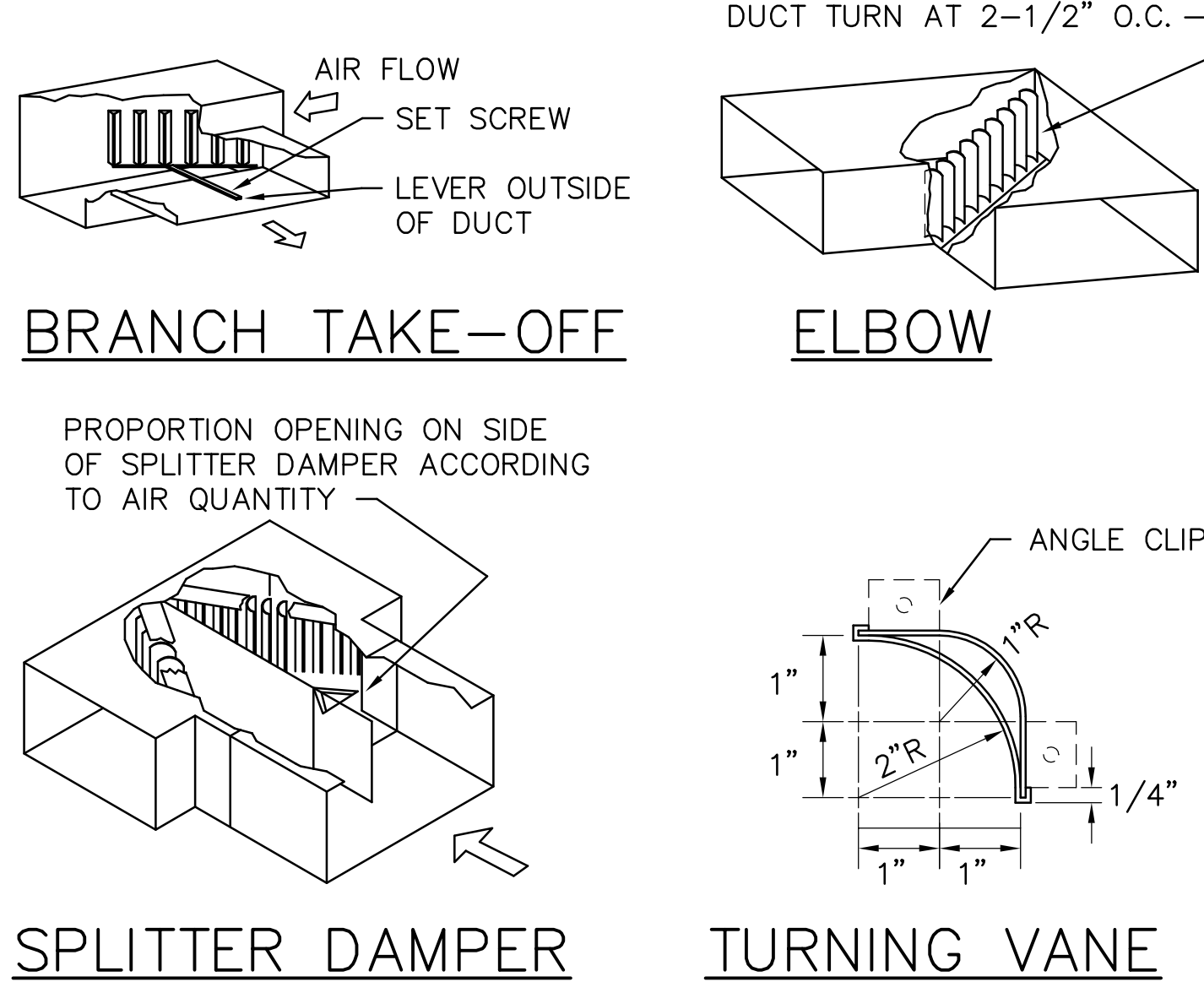
NOTE: SEE ALSO M1.1, NOTE 7 REGARDING CONCEALED DUCTWORK,

RA OR EXH DUCT
FLEX OR HARD ϕ
BOOT SIZE OF RA BY 8" DEEP

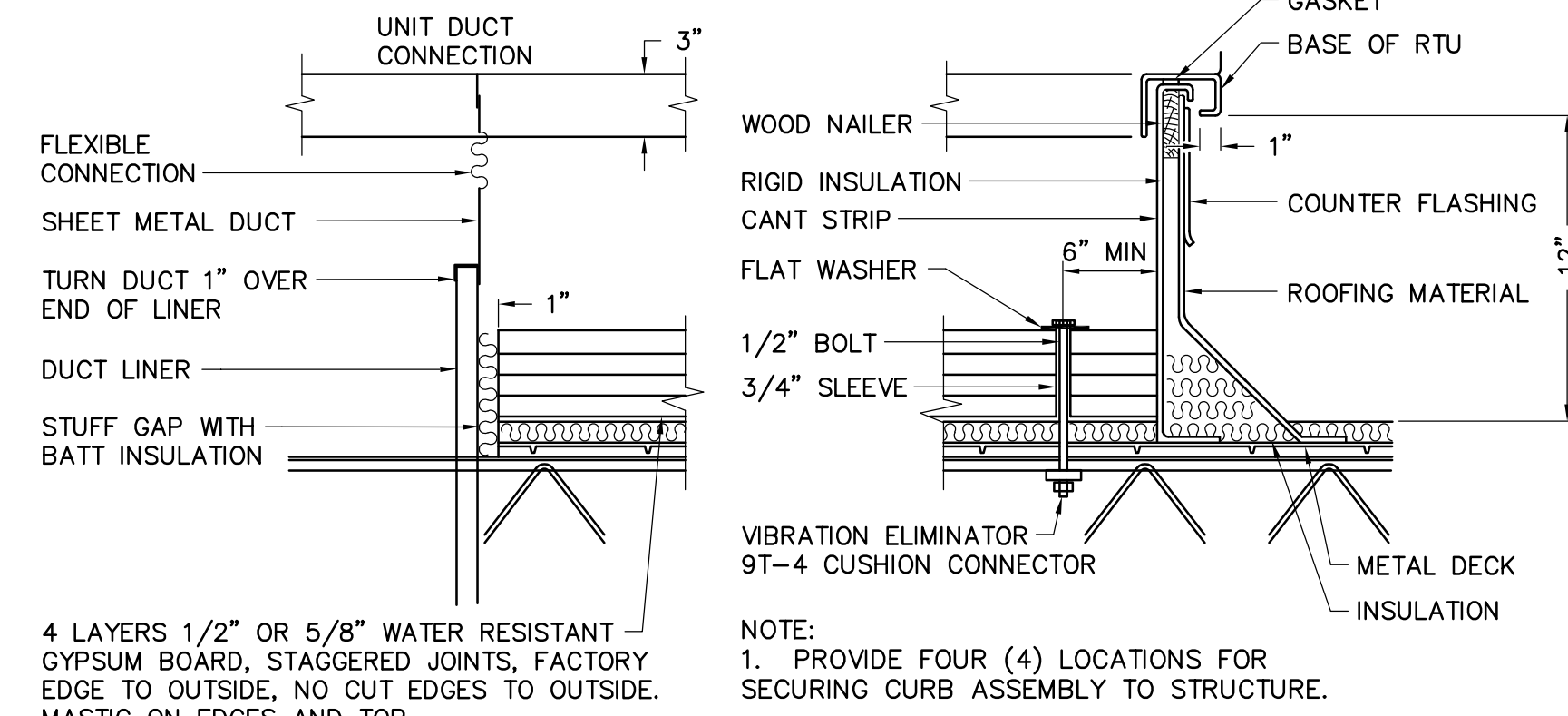
4 SUPPLY, RA, EXH DUCT TAPS DETAIL
NO SCALE



5 MECH. RM. WALL PENETRATION DETAIL
NO SCALE



1 TYPICAL DUCT CONSTRUCTION DETAIL
NO SCALE

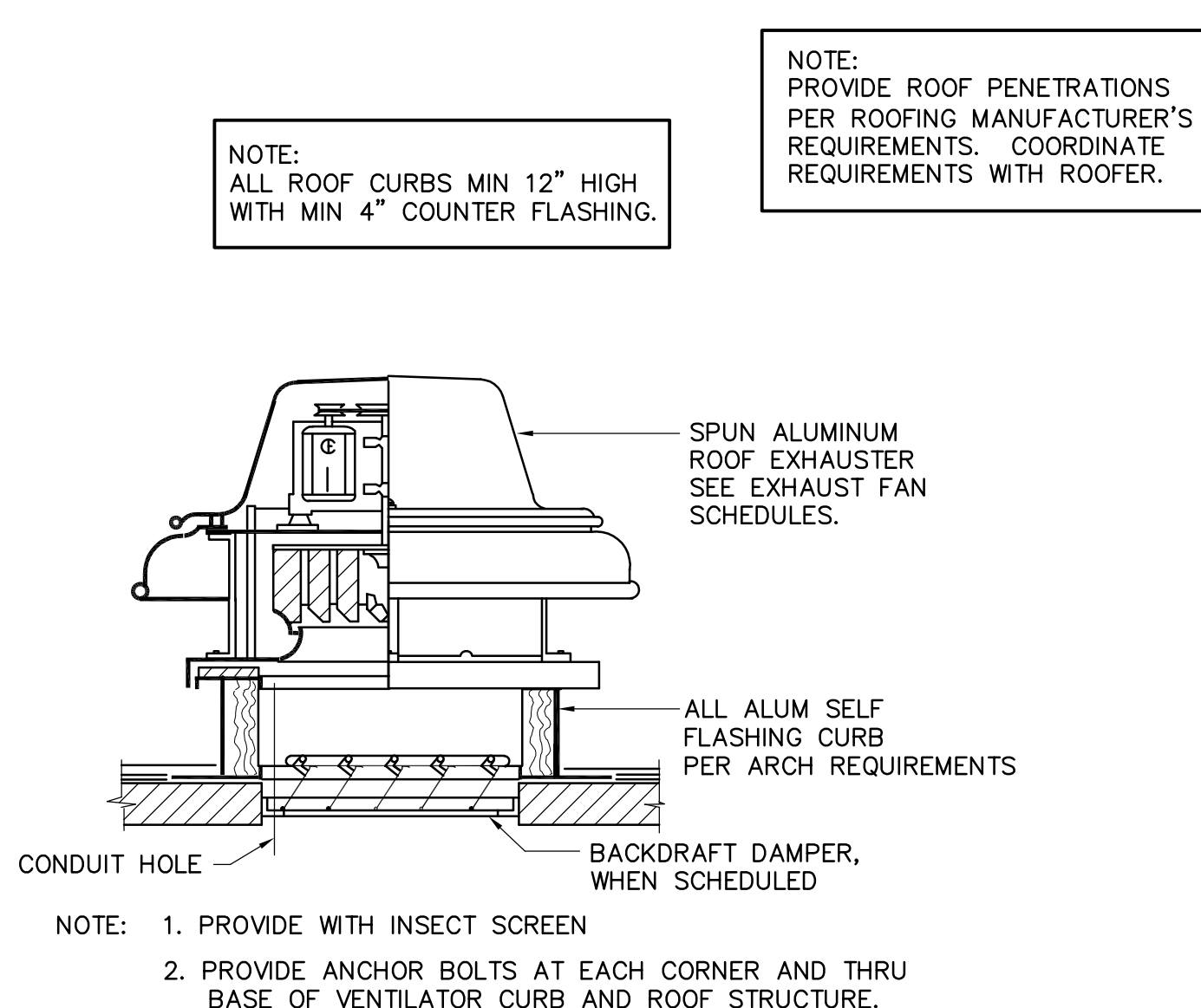


4 LAYERS 1/2" OR 5/8" WATER RESISTANT GYPSUM BOARD, STAGGERED JOINTS, FACTORY EDGE TO OUTSIDE, NO CUT EDGES TO OUTSIDE. MASTIC ON EDGES AND TOP.

NOTE:
1. PROVIDE FOUR (4) LOCATIONS FOR SECURING CURB ASSEMBLY TO STRUCTURE.
2. DO NOT ALLOW SHEET METAL DUCT TO CONTACT STRUCTURE.
3. REFER TO SECTION 07700 FOR ROOF CURB

NOTE: PROVIDE ROOF PENETRATIONS PER ROOFING MANUFACTURER'S REQUIREMENTS. COORDINATE REQUIREMENTS WITH ROOFER.

2 ROOF TOP UNIT (RTU) SUPPORT DETAIL
NO SCALE



NOTE: ALL ROOF CURBS MIN 12" HIGH WITH MIN 4" COUNTER FLASHING.

NOTE: PROVIDE ROOF PENETRATIONS PER ROOFING MANUFACTURER'S REQUIREMENTS. COORDINATE REQUIREMENTS WITH ROOFER.

NOTE: 1. PROVIDE WITH INSECT SCREEN
2. PROVIDE ANCHOR BOLTS AT EACH CORNER AND THRU BASE OF VENTILATOR CURB AND ROOF STRUCTURE.

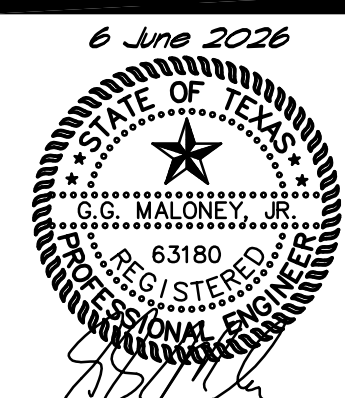
3 EXHAUST FAN DETAIL
NO SCALE

HVAC SYMBOL LEGEND

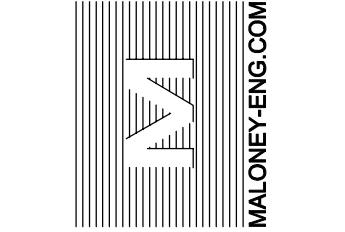
	THERMOSTAT
	HUMIDISTAT
	20" WIDE X 10" DEEP, INSIDE CLEAR
	FIRE DAMPER IN DUCT WITH AD FOR ACCESS
	EXHAUST OR RETURN AIR SECTION
	SUPPLY AIR SECTION
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	BALANCING DAMPER
	MOTORIZED DAMPER
	CONDENSATE DRAIN
	DIRECTION OF FLOW
	CONNECT TO EXISTING
	OVERFLOW DRAIN
	THERMOMETER TEST OR CONTROL BULB WELL
	THERMOMETER
	MANUAL VOL DAMPER
	ACCESS DOOR
	FIRE DAMPER
	OUTSIDE AIR
	RETURN AIR
	SUPPLY AIR
	HOT GAS
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION

DRAWING COORDINATION
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MECHANICAL DETAILS
GAMEDAY
190 Creekside Crossing,
New Braunfels, 78130 Texas

DATE	DESCRIPTION	BY

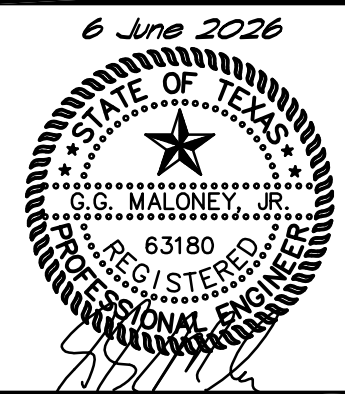
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PROJECT NO.
04-26-26

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PACKAGED ROOF TOP UNIT SCHEDULE

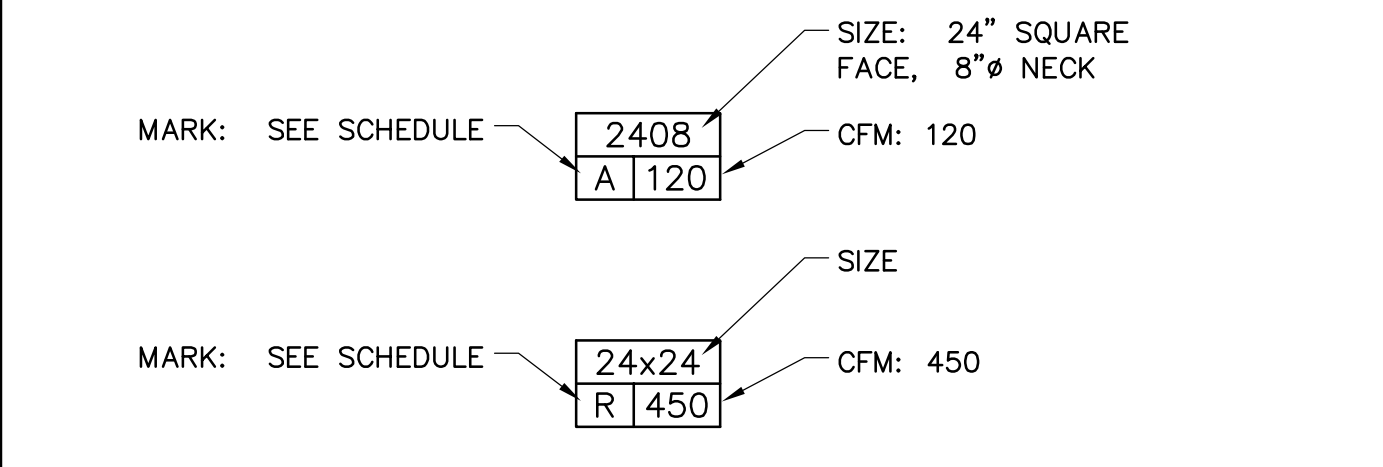
MARK	RTU-1	RTU-2
SYSTEM TYPE	HEAT PUMP	HEAT PUMP
UNIT LOCATION	ROOF	ROOF
COOLING REQUIREMENT	5 TON	5 TON
EVAP CFM	2250	2000
EAT, DB/WB	76.1/62.6	76.9/63.0
GROSS SEN. MBH REQD	50.3	47.9
GROSS TOTAL MBH REQD	66.4	63.6
AMBIENT F	105	105
SEER/EER	14.3	14.3
HEATING (HP)		
CFM	2250	2000
EAT	65	65
TOTAL MBH REQD	47.7	40.9
ELECTRIC HEAT KW	12	12
HSPF2/COOP	6.9/3.6	6.9/3.6
VENT REQUIREMENT		
OUTSIDE AIR CFM, MIN	100	100
MANUFACTURER	JOHNSON CONTROLS	JOHNSON CONTROLS
MODEL	WYE06A4B1AB5H116A1	WYE06A4B1AB5H116A1
EXTERNAL SP	0.60	0.60
FLA/MOCP	70.6/80	70.6/80
VOLTAGE/PHASE	208/3	208/3
AIR DISCHARGE	DOWNFLOW	DOWNFLOW
DIMENSIONS (LxWxH)	74X49X41	74X49X41
WEIGHT (LBS)	726	726

- NOTES:
1. PROVIDE FILTERS.
2. PROVIDE ROOF CURBS.
3. PROVIDE WITH ECONOMIZER.
4. PROVIDE SINGLE POINT POWER CONNECTION. ROUTE ALL PLUMBING AND ELEC CONNECTIONS WITHIN CONFINES OF ROOF CURB.
5. PROVIDE LOW AMBIENT KIT.
6. PROVIDE AUTOMATIC CHANGEOVER, NIGHT SETBACK THERMOSTAT. PROVIDE LOCKING COVER IN PUBLIC AREAS.
7. UNIT WEIGHT EXCLUDES CURB WEIGHT.
8. PROVIDE 120V GFI RECEPTACLE WITH UNIT. WEATHER PROOF COVER, WIRED, READY FOR USE.
9. PROVIDE SMOKE DETECTION CONTROL SYSTEM PER CURRENT IMC SECTION 606.
10. PROVIDE MANUFACTURER'S STANDARD HAIL GUARDS FOR CONDENSER COILS.

GRILLE, REGISTER, DIFFUSER SCHEDULE

MARK	A	B	C	R	T
SERVICE TYPE	SUPPLY DIFFUSER	SUPPLY PERFORATED	TRANSFER DOOR GRILLE	RETURN GRILLE	TRANSFER GRILLE
DEFLECTION	4-WAY	3-WAY	FIXED	GRID	GRID
PANEL SIZE	VARIES	VARIES	VARIES	VARIES	VARIES
MOUNT	LAYIN OR FLANGE	LAYIN OR FLANGE	LAYIN OR FLANGE	LAYIN OR FLANGE	LAYIN OR FLANGE
MANUFACTURER	TITUS	TITUS	TITUS	TITUS	TITUS
MODEL	TMS-AA	PCS-AA	CT-700	50F	50F
DAMPER	OPPOSED BLADE	OPPOSED BLADE	N/A	N/A	N/A
MATERIAL	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM
REFERENCE NOTES	1,2,3	1,2,3	1	1,4	1,4

- REFERENCE NOTES:
1. INSTALL APPROPRIATE MOUNT FOR INSTALLED SUBSTRATE. DO NOT SCREW THRU FACE OF DEVICE UNLESS SCREW HOLES ARE PROVIDED BY MANUFACTURER.
2. DAMPER IN SUPPLY DUCT.
3. RUNOUT SAME SIZE AS DIFFUSER NECK SIZE.
4. DAMPER BEHIND FACE OF REGISTER.
* OR AS NOTED.



FAN SCHEDULE 15870

MARK	EF-1	EF-2
SYSTEM TYPE	EXHAUST	EXHAUST
UNIT LOCATION	CEILING	CEILING
CFM	75	75
TSP INCHES	.30	.30
MOTOR HP	80WATTS	80WATTS
VOLTAGE/PHASE	120/1	120/1
DRIVE	DIRECT	DIRECT
TYPE	CENTRIFUGAL	CENTRIFUGAL
MOUNTING	CEILING	CEILING
MANUFACTURER	GREENHECK	GREENHECK
MODEL	SP-B110	SP-B110
UNIT INTERLOCK	LIGHT SW	LIGHT SW
REFERENCE NOTE	1,4	1,4

- REFERENCE NOTES:
1. INTEGRAL BACKDRAFT DAMPER
2. ALL ALUMINUM CONSTRUCTION.
3. INSTALL UNIT ON MANUFACTURERS COMBINATION EXH/MU ROOF CURB. CURBS FURNISHED BY KEC INSTALLED BY GC.
4. SWITCH EXHAUST FAN WITH RESPECTIVE ROOM LIGHT.
5. FURNISH BIRD SCREEN
6. FURNISH WITH VENTED CURB EXTENSION & GREASE TRAP
7. FURNISH WITH HINGING KIT
8. PROVIDE LOCAL SWITCH.
9. PROVIDE MINIMUM 10' INTAKE EXTENSION ON ROOF.
10. FAN FURNISHED BY KEC (KITCHEN EQUIPMENT CONTRACTOR) INSTALLED BY MECHANICAL CONTRACTOR.
11. PROVIDE INTERLOCK AND SINGLE POINT CONTROL LOCAL SWITCH FOR EF-1 & MU-1.
12. ALL DUCTWORK PROVIDED BY MECHANICAL CONTRACTOR EXCEPT FOR MU-1 INTAKE EXTENSION ON ROOF.
13. PROVIDE VARIABLE SPEED FOR ADJUSTABLE FAN THROW.
14. FURNISH WITH MANUFACTURER'S STANDARD CURB.

SUBMITTAL

SUBMIT 4 COPIES OF DATA FOR REVIEW AND COMMENT BY OWNER PRIOR TO ORDERING. INCLUDE MANUFACTURER'S STANDARD SUBMITTAL DATA WITH MANUFACTURER'S NAME AND MODEL NUMBERS AND ALL OPTIONS CLEARLY MARKED.

PROVIDE SUBMITTAL DATA FOR:

- ROOF TOP UNITS, INCLUDE UNIT CAPACITY INFORMATION FOR CONDITIONS SCHEDULED, UNIT DIMENSIONS AND WEIGHT, UNIT CURB WITH DIMENSINS AND WEIGHT.
- GRILLS REGISTERS AND DIFFUSERS
- EXHAUST AND SUPPLY FANS (FURNISHED BY KITCHEN EQUIPMENT SUPPLIER) INCLUDE FAN CFM AT SCHEDULED CONDITIONS, ELECTRICAL DATA AND MOTOR SIZE.

MECHANICAL SCHEDULES
GAMEDAY
190 Creekside Crossing,
New Braunfels, 78130 Texas

DATE	DESCRIPTION	BY

SCALE:
AS NOTED

PROJECT NO.
04-26-26

SHEET NO.
M0.01

PANEL L RECESSED										
LOAD CONT	LOAD N-CONT	LOCATION	CKT DEVICE	CKT #	PH	CKT #	CKT DEVICE	LOCATION	LOAD N-CONT	LOAD CONT
1,040		LIGHTING	1 P 20	1	A	2	1 P 20	LIGHTING		940
	720	RECEPTACLES	1 P 20	3	B	4	1 P 20	RECEPTACLES	720	
	720	RECEPTACLES	1 P 20	5	C	6	1 P 20	RECEPTACLES	720	
	720	RECEPTACLES	1 P 20	7	A	8	1 P 20	MICROWAVE	1,000	
	540	RECEPTACLES	1 P 20	9	B	10	1 P 20	RECEPTACLES	720	
	720	RECEPTACLES	1 P 20	11	C	12	1 P 20	CENTRIFUGE	1,000	
	1,000	CENTRIFUGE	1 P 20	13	A	14	1 P 30	WATER HEATER	3,600	
	720	RECEPTACLES	1 P 20	15	B	16	1 P 20	RECEPTACLES	720	
	720	RECEPTACLES	1 P 20	17	C	18	1 P 20	RECEPTACLES	720	
	720	RECEPTACLES	1 P 20	19	A	20	1 P 20	RECEPTACLES	720	
	720	RECEPTACLES	1 P 20	21	B	22	1 P 20	RECEPTACLES	540	
	3,600	WATER HEATER	1 P 30	23	C	24	1 P 30	WATER HEATER	3,600	
	3,600	WATER HEATER	1 P 30	25	A	26	1 P 30	WATER HEATER	3,600	
	1,000	IT EQUIP	1 P 20	27	B	28	1 P 20	IT EQUIP	1,000	
		SPACE	1 P	29	C	30	1 P	SPACE		
		SPACE	1 P	31	A	32	1 P	SPACE		
		SPACE	1 P	33	B	34	1 P	SPACE		
		SPACE	1 P	35	C	36	1 P	SPACE		
	25,400	RTU- 1	3 P 80	37	A	38	3 P 80	RTU- 2	25,400	
		////	////	39	B	40	////	////		
		////	////	41	C	42	////	////		
208 PANEL AMPERES			PANEL VOLTAGE 120/208, 3PH, 4W				225A MLO			
208 PANEL MINIMUM BUS SIZE			10,000 AIC							
2 PANEL CONTINUOUS KVA							85 PANEL NON- CONTINUOUS KVA			

NOTE:
ELECTRICAL PANEL CALCULATIONS
PER NEC ARTICLE 220.

SUBMITTAL

SUBMIT 4 COPIES OF DATA FOR REVIEW AND COMMENT BY OWNER PRIOR TO ORDERING. INCLUDE MANUFACTURER'S STANDARD SUBMITTAL DATA WITH MANUFACTURER'S NAME AND MODEL NUMBERS, COLOR, FINISH, SIZE AND ALL OPTIONS CLEARLY MARKED.

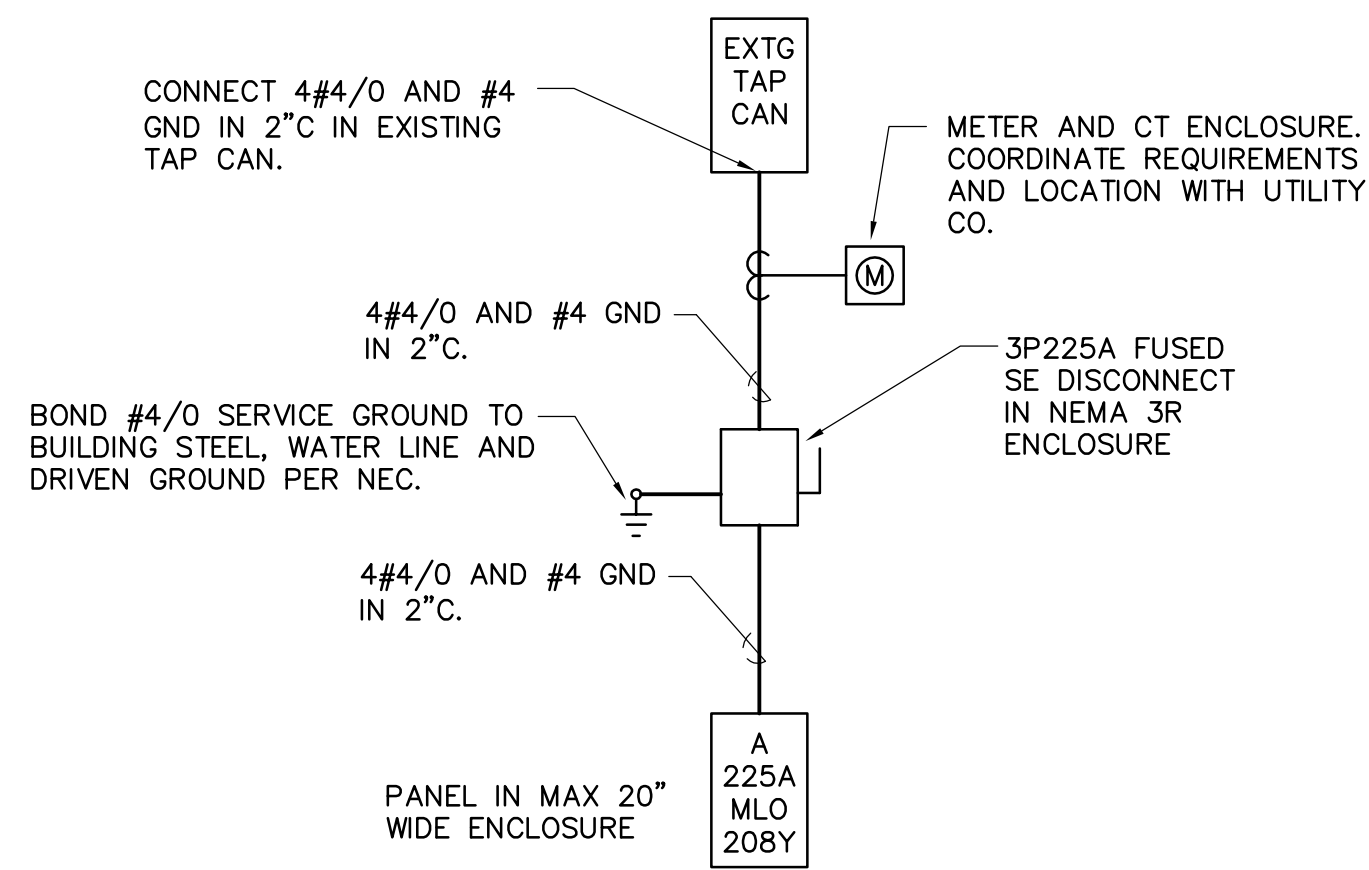
PROVIDE SUBMITTAL DATA FOR LIGHT FIXTURES, POLES, CEILING FANS AND ELECTRICAL PANELS AND GEAR.

SUBMIT PHOTOMETRIC CALCULATIONS AND REPORT FOR SITE LIGHTING. SHOW STATISTICS AND LIGHTING LEVELS ON 10' GRID, INCLUDE BUILDING MOUNTD LIGHTING FIXTURES.

ELECTRICAL INSTALLATION REQUIREMENTS:

- SCOPE
 - PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO EXECUTE WORK.
 - THIS WORK INCLUDES, BUT IS NOT LIMITED TO: ELECTRICAL SERVICE AND DISTRIBUTION SYSTEMS, PANELBOARDS, DISCONNECT SWITCHES, LIGHTING FIXTURES, POWER AND CONTROL WIRING WITH FINAL CONNECTIONS TO ALL EQUIPMENT REQUIRED FOR A COMPLETE SYSTEM.
 - ELECTRICAL CONTRACTOR TO VERIFY TYPE OF POWER SERVICE AVAILABLE (UNDERGROUND OR OVERHEAD) UTILITY CABLE, CONDUIT AND TRANSFORMER PAD INSTALLATION REQUIREMENTS, COST FROM UTILITY TO PROVIDE SERVICE AND MAXIMUM SHORT CIRCUIT CURRENT PRIOR TO SUBMITTING A PROPOSAL. INCLUDE COST FOR UTILITY ROUGH-IN, CONDUIT, CABLE, XFMR PADS AND CONNECTIONS NOT PROVIDED BY THE UTILITY.
 - ELECTRICAL CONTRACTOR TO VERIFY TYPE OF TELEPHONE SERVICE AVAILABLE (UNDERGROUND OR OVERHEAD) PRIOR TO SUBMITTING A PROPOSAL.
 - ELECTRICAL CONTRACTOR VERIFY METERING, IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE LABELS 3/16 INCH HIGH, FOR DESCRIPTION OF MAIN SWITCHBOARD, PANEL BOARD AND ALL BRANCH CIRCUITS.
 - SUBMIT MANUFACTURER'S CATALOG SHEETS, BROCHURES, DIAGRAMS, SCHEDULES, PERFORMANCE CHARTS, ILLUSTRATIONS AND OTHER STANDARD DESCRIPTIVE DATA. CLEARLY MARK EACH COPY TO IDENTIFY PERTINENT MATERIALS, PRODUCTS OR MODELS. SHOW DIMENSIONS AND CLEARANCES REQUIRED. SHOW PERFORMANCE CHARACTERISTICS AND CAPACITIES. SHOW ELECTRICAL RATINGS, WIRING DIAGRAMS AND CONTROLS.
 - PROVIDE IVORY DEVICES WITH STAINLESS STEEL PLATES FOR OUTLETS LOCATED IN KITCHEN. PROVIDE BLACK DEVICES WITH BLACK COVERPLATES FOR OUTLETS LOCATED IN THE DINING AREA.
- INSTALLATION
 - THE INSTALLATION SHALL COMPLY WITH CURRENT NEC.
 - THE CLEARANCE TO ALL ELECTRICAL EQUIPMENT SHALL COMPLY WITH CURRENT NEC.
 - CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED ELECTRICAL CONDUIT AND WIRING FOR ALL MOTORS, STARTERS AND ELECTRICAL CONTROLS. HE SHALL MAKE ALL LINE VOLTAGE ELECTRICAL CONNECTIONS AS REQUIRED FOR HVAC SYSTEMS.
 - ELECTRICAL CONTRACTOR SHALL COMPLETE THE CONNECTIONS TO ALL RECEPTACLES, EQUIPMENT AND FINAL CONNECTIONS TO ALL FIXTURES AFTER FIXTURES ARE IN PLACE.
 - WIRING
 - WIRE SIZES ARE TO COMPLY WITH CURRENT NEC.
 - ALL WORK SHALL BE COMPLETED IN A NEAT AND WORKMANLIKE MANNER.
 - ALL WIRING SHALL BE RUN IN APPROVED METALLIC RACEWAY OR CONDUIT AND SHALL BE UNIFORMLY COLOR CODED THROUGHOUT THE ENTIRE SYSTEM. SPLICES, TAPS, AND TERMINALS SHALL BE MAKE ONLY IN "J" BOXES, OUTLETS AND PANEL BOARDS.
 - ALL CONDUCTORS SHALL BE COPPER WITH A MINIMUM WIRE SIZE OF #12 AWG. THE CONTRACTOR SHALL ENSURE THE CONDUCTORS UTILIZED ARE IN KEEPING WITH GOOD PRACTICE FOR THE CIRCUIT/PROTECTIVE DEVICES EMPLOYED. THE NEUTRAL CONDUCTOR (WHERE USED) SHALL HAVE THE SAME AMPACITY AS THE ASSOCIATED PHASE CONDUCTORS (I.E. NEUTRAL REDUCTION SHALL NOT BE PERMITTED).
 - THE CONTRACTOR SHALL SIZE ALL CONDUCTOR AND CONDUIT IN ACCORDANCE WITH NEC AND ENSURE THAT CIRCUIT AMPACITY AND SHORT CIRCUIT/OVERLOAD PROTECTION IS APPROPRIATE FOR THE EQUIPMENT BEING INSTALLED. UL LISTING CONDITIONS SHALL BE OBSERVED.
 - WIRE SIZES LISTED ARE MINIMUM. CONDUCTORS SHALL BE SELECTED SUCH THAT THE MAXIMUM VOLTAGE DROP BETWEEN THE PANELBOARD AND LOAD (AT FULL LOAD AMPS) DOES NOT EXCEED 2% FOR MOTOR LOADS (AIR CONDITIONING, REFRIGERATION, ETC.) AND 5% FOR ALL OTHER LOADS
 - GROUNDING - PROVIDE GROUNDING OF ELECTRICAL SERVICE ENTRANCE, PANELS, EQUIPMENT AND DEVICES IN ACCORDANCE WITH CURRENT NEC.
 - MAINTAIN SERVICE CLEARANCE TO ELECTRICAL PANELS AND EQUIPMENT IN ACCORDANCE WITH CURRENT NEC.

NOTE:
PROVIDE GFCI PROTECTED BREAKERS FOR
ALL SINGLE POLE CIRCUITS IN PANEL A



1 ELECTRICAL RISER
SCALE: NO SCALE

MARK	DESCRIPTION	LAMPS NO/TYPE	MAX INPUT W	LENS	MOUNTING	MANUFACTURER	NOTES
A	2X4 TROFFER	1 6000 LUMEN LED	43	Micro-Prism	RECESSED	LITHONIA SPX 2X4 6000LM 80CRI 35K BFR MPL M1N10 MVOLT MW	DIMMING DRIVER, WHITE TRIM
B	DOWNLIGHT	1 2221 LUMEN 3000K LED	25	INTEGRAL	RECESSED	LITHONIA LDN6 AL02 SWV1 L06 WR TRV LSS MVOLT UG21	0-10V DIMMING DRIVER, UL WET LOCATION, SELECTABLE WATTAGE/COLOR TEMP
C	DOWNLIGHT	1 2221 LUMEN 3000K LED	25	INTEGRAL	RECESSED	LITHONIA LDN6 AL02 SWV1 L06 WR TRV LSS MVOLT UG21	0-10V DIMMING DRIVER, UL WET LOCATION, SELECTABLE WATTAGE/COLOR TEMP
D	PENDANT	2 1000 LUMEN LED 3000K	15		PENDANT	SELECTED BY OWNER	DIMMING DRIVER
X	EXIT/EGRESS	2 LED	4.3	RED	WALL OR CEILING	COMPASS LIGHTING CCR	WITH 90 MIN EMERGENCY BATTERY, 2 LAMP HEADS
Y	EGRESS	2 LED	4	REFRACTOR	WALL	COMPASS LIGHTING CU2	WITH 90 MIN EMERGENCY BATTERY, 2 LAMP HEADS
Z	EXTERIOR EGRESS	2 LED	1.4	REFRACTOR	WALL	SURE-LITES SELWT29BKSD	UL WET LOCATION, BATTERY RATED FOR -40degF TO 131degF, 90 MIN OPERATION SELF DIAGNOSTIC

NOTES:
1. VERIFY TRIM MATCHES CEILING OR SURFACE TYPE FOR RECESSED FIXTURES.
2. VERIFY FIXTURE VOLTAGE PRIOR TO ORDERING FIXTURES.
3. PROVIDE 3500K COLOR TEMP LAMPS IN ALL AREAS.

ELECTRICAL SYMBOL LEGEND

<p>A 2X4 FLUORESCENT FIXTURE, LETTER INDICATES TYPE</p> <p>E 1X4 FLUORESCENT FIXTURE, LETTER INDICATES TYPE</p> <p> SHADED FIXTURES WITH EMERGENCY BATTERY PACK</p> <p>B RECESSED FIXTURE, LETTER INDICATES TYPE.</p> <p>E WALL MOUNTED FIXTURE, LETTER INDICATES TYPE.</p> <p>P CEILING MOUNTED OR PENDANT FIXTURE, LETTER INDICATES TYPE.</p> <p> WALL MOUNTED EXIT SIGN, FIXTURE TYPE X.</p> <p> CEILING MOUNTED EXIT SIGN, FIXTURE TYPE X.</p> <p> EGRESS LIGHTING, FIXTURE TYPE Y</p> <p>\$ SWITCH</p> <p> SWITCH WITH AUTOMATIC OCCUPANCY SENSING (PIR TYPE)</p> <p> 3-WAY SWITCH, 4 INDICATES 4-WAY SWITCH</p> <p> VARIABLE SPEED FAN CONTROL SWITCH</p> <p> 20A, 120V DUPLEX OUTLET, NEMA 5-20</p> <p> 20A, 120V 4PLEX OUTLET, (2) NEMA 5-20</p> <p>FV GFI OUTLET BELOW SINK FOR AUTOMATIC FAUCET VALVE POWER SUPPLY</p> <p>EWC ELECTRIC WATER COOLER, SET HEIGHT BY COOLER TEMPLATE, CONCEAL OUTLET.</p> <p>WP WEATHER PROOF</p> <p>GFI GROUND FAULT INTERRUPTED OUTLET.</p> <p>C CEILING OUTLET OR DEVICE ABOVE COUNTER SPLASH OR AT 42". COORDINATE LOCATION WITH ARCH ELEVATIONS, EQUIPMENT REQUIREMENTS AND MILLWORK DETAILS.</p> <p> 120/208V 16 OUTLET, PROVIDE SO CORD AND PLUG</p> <p> SIMPLEX OUTLET</p> <p> J-BOX</p> <p> CIRCUIT, HASH MARKS INDICATE # OF WIRES IF GREATER THAN 2. LONG MARKS ARE SWITCHED OR HOT, SHORT ARE NEUTRAL.</p> <p> CIRCUIT HOMERUN</p>	<p> MOTOR LOAD</p> <p> DISCONNECT SWITCH, F=FUSED OTHERWISE NON FUSED. DISCONNECT SIZED TO MATCH OR EXCEED CIRCUIT SIZE.</p> <p> COMBINATION STARTER DISCONNECT COORDINATE SIZE WITH EQUIPMENT FURNISHED</p> <p> PANELBOARD, SURFACE MOUNTED IN MECH ROOMS AND OTHER UNFINISHED AREAS, SEE SCHEDULES.</p> <p> DATA OUTLET, DUAL RJ-45 OUTLET W/ COVERPLATE AND 1" C AND CAT-6 DATA CABLE IN GREEN JACKET TO TELEPHONE BOARD AT MANAGERS DESK.</p> <p> TELEPHONE/DATA OUTLET, DUAL RJ-45 OUTLET W/ COVERPLATE AND 1" C WITH CAT-6 DATA CABLE IN GREEN JACKET AND CAT-6 TELEPHONE CABLE IN GRAY JACKET TO TELEPHONE BOARD AT MANAGERS DESK.</p> <p> CATV OUTLET, PROVIDE F-TYPE COAX CONNECTOR IN COMMON BOX WITH 120V OUTLET. PROVIDE DOUBLE GANG BOX WITH DIVIDER AND DUAL COVERPLATE. PROVIDE 1" C AND COAX CABLE TO TELEPHONE BOARD AT MANAGERS DESK.</p>
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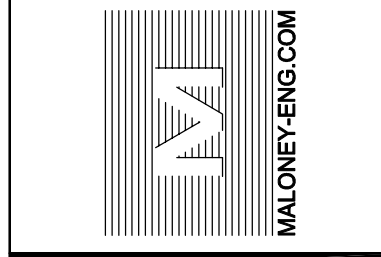
NOTES:
1. VERIFY ALL OUTLET LOCATION WITH MILLWORK DRAWINGS.
2. IF NO SUBLETTER ON SWITCHES OR FIXTURES IS INDICATED, ALL FIXTURES IN ROOM ARE SWITCHED TOGETHER.
3. MULTIPLE SWITCHING IS INDICATED BY 2 SUBLETTERS AT FIXTURES. OR BY SWITCH-LEG.
4. CONCEAL CONDUITS IN ALL AREAS WITH FINISHED WALLS OR CEILINGS, EXCEPT FOR COOLERS, MECHANICAL, BOILER, TELEPHONE, AND ELECTRICAL ROOMS. CONCEAL CONDUITS IN THESE AREAS WHERE PRACTICAL.
5. MOUNT SWITCHES AND CONTROLS AT 48" AFF AND OUTLETS AT 18" AFF IN COMPLIANCE WITH TIA/ADA REQUIREMENTS UNLESS NOTED OTHERWISE.
6. PROVIDE VAPOR SEAL INSIDE AND OUT OF ALL CONDUIT PENETRATIONS THROUGH COOLER PANELS. USE PVC NIPPLE FOR THERMAL BREAK AT PENETRATION.

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ELECTRICAL RISER AND SCHEDULES
GAMEDAY
190 Creekside Crossing,
New Braunfels, 78130 Texas

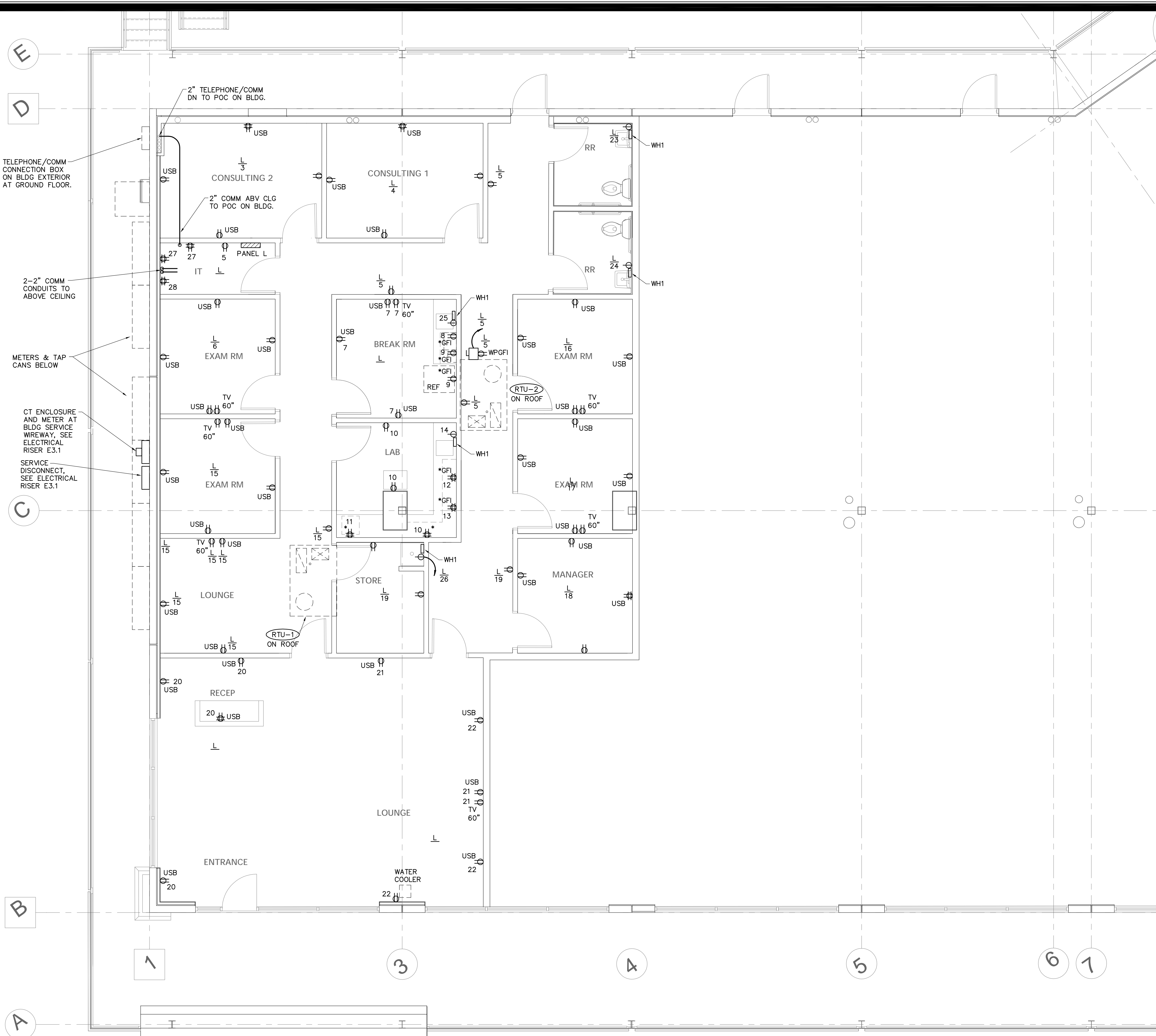
DATE	DESCRIPTION	BY

SCALE:
AS NOTED

PROJECT NO.
04-26-26

SHEET NO.
E0.00

Jun 08, 2026 - 6:53pm
E1.00-Electrical Plan.dwg



E
D
C
B
A

1 3 4 5 6 7

TELEPHONE/COMM CONNECTION BOX ON BLDG EXTERIOR AT GROUND FLOOR.

2-2" COMM CONDUITS TO ABOVE CEILING

METERS & TAP CANS BELOW

CT ENCLOSURE AND METER AT BLDG SERVICE WIREWAY, SEE ELECTRICAL RISER E3.1
SERVICE DISCONNECT, SEE ELECTRICAL RISER E3.1

2" TELEPHONE/COMM DN TO POC ON BLDG.

2" COMM ABV CLG TO POC ON BLDG.

IT PANEL L

RECEP

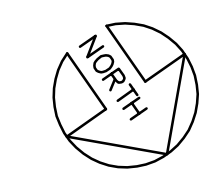
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WATER COOLER

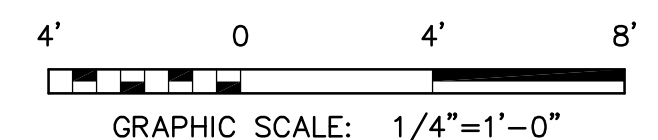
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RTU-2 ON ROOF

RTU-1 ON ROOF



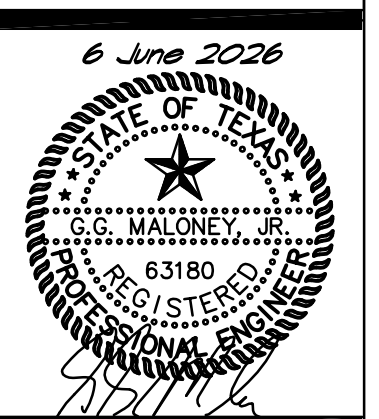
1 ELECTRICAL PLAN
SCALE: 1/4"=1'-0"



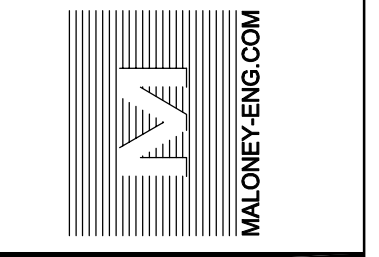
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DRAWING COORDINATION
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ELECTRICAL PLAN

GAMEDAY
190 Creekside Crossing,
New Braunfels, 78130 Texas

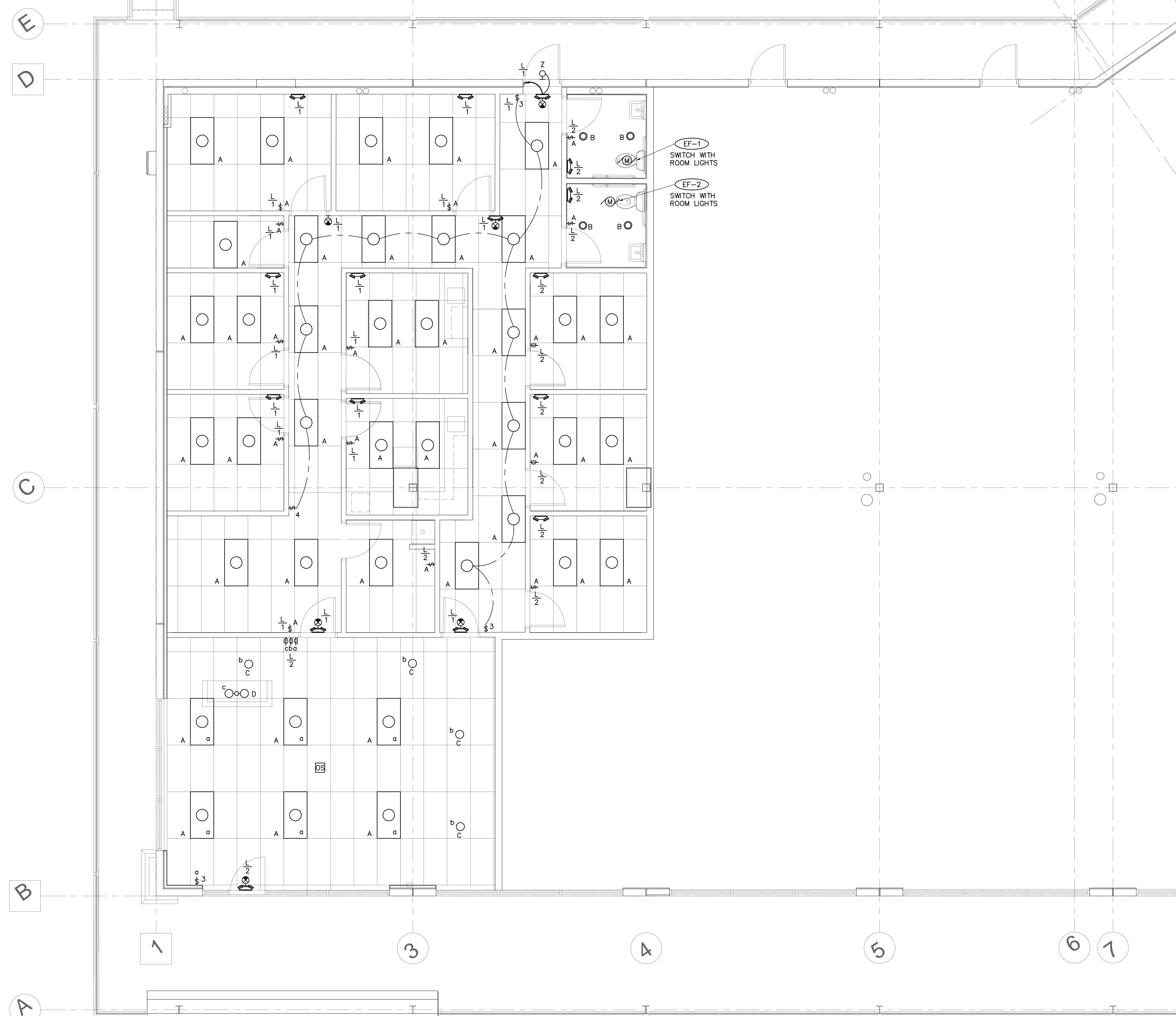
DATE	DESCRIPTION	BY

SCALE: AS NOTED

PROJECT NO. 04-26-26

SHEET NO. E1.00

Jun 08, 2026 - 6:52pm
E1.01-Lighting Plan.dwg



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

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

4' 0 4' 8'

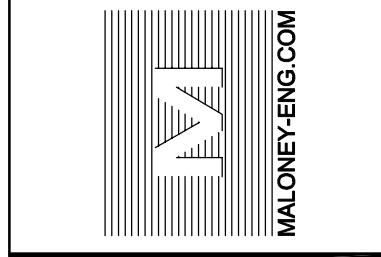
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LIGHTING PLAN
GAMEDAY
190 Creekside Crossing,
New Braunfels, 78130 Texas

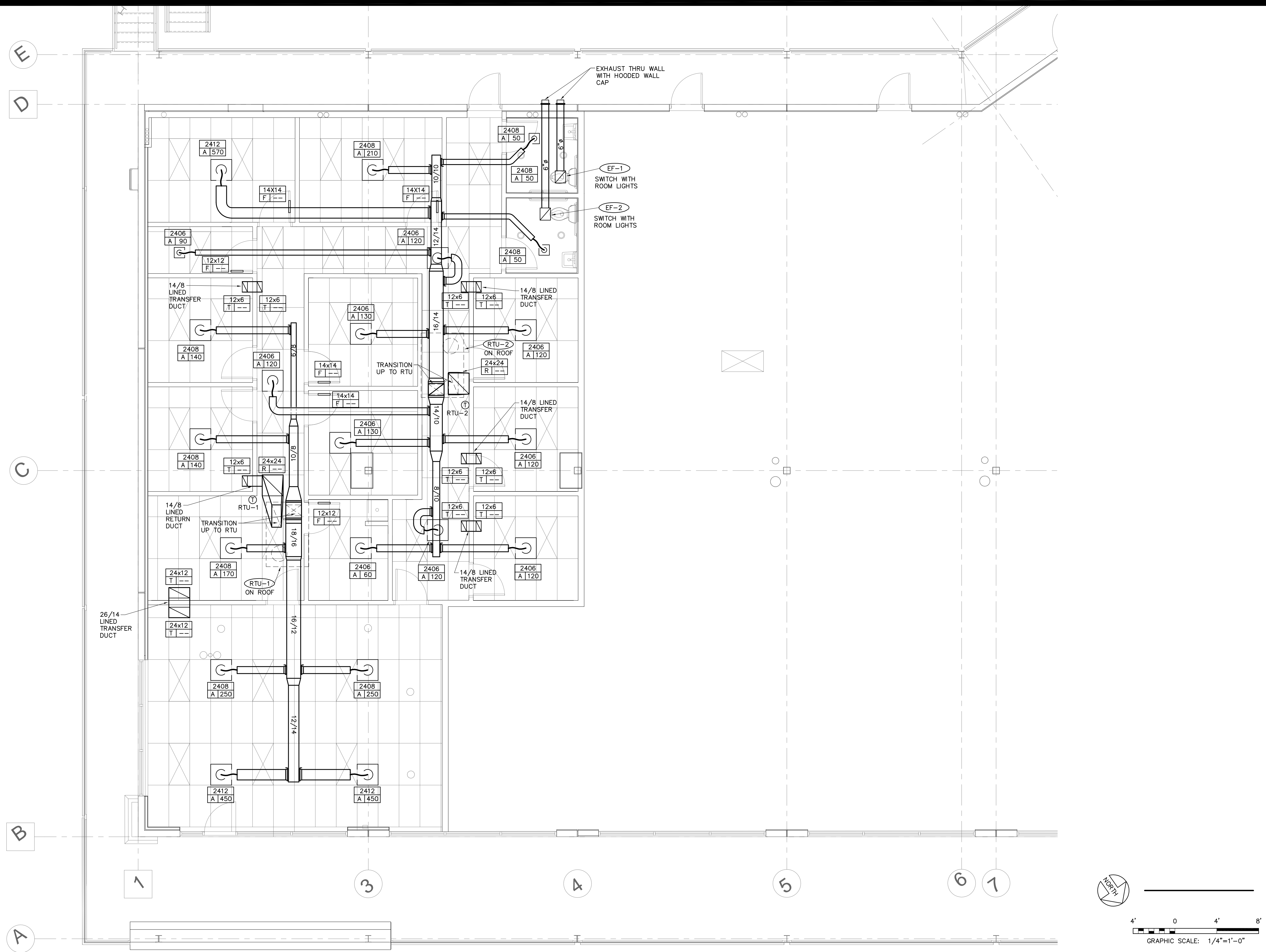
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M10.0-Mechanical Plan.dwg



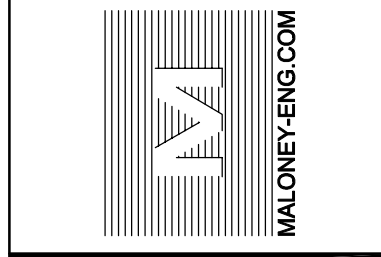
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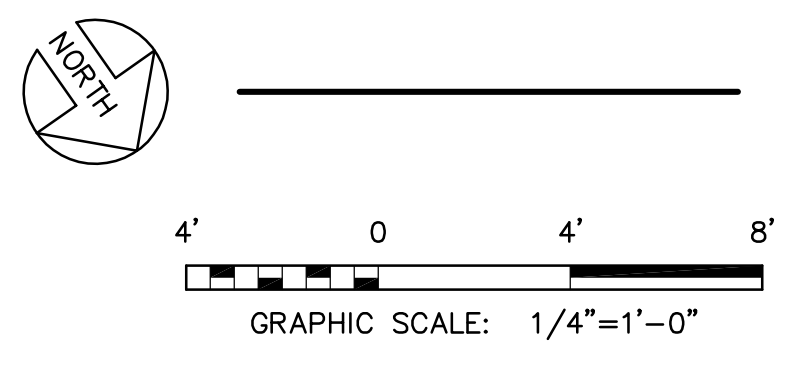
MECHANICAL PLAN
GAMEDAY
190 Creekside Crossing,
New Braunfels, 78130 Texas

DATE	DESCRIPTION	BY

SCALE:
AS NOTED

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04-26-26

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M1.00



PLUMBING FIXTURE AND CONNECTION SCHEDULE PROVIDE SUBMITTAL DATA FOR ALL ITEMS IN THIS SCHEDULE

SYMBOL	DESCRIPTION	HOT WTR	COLD WTR	TRAP	WASTE	VENT	NOTES	MANUFACTURER & MODEL NO.
WCL	WATER CLOSET, BARRIER FREE, LEFT HAND FLUSH	-	1/2	-	4	2	FLOOR MOUNTED, RIM AT 17" AFF	KOHLER K3505 PRESSURE ASSISTED FLUSH, OPEN FRONT SOLID PLASTIC SEAT, 1.6 GAL PER FLUSH, SLOAN FLUSHMATE
WCR	WATER CLOSET, BARRIER FREE, RIGHT HAND FLUSH	-	1/2	-	4	2	FLOOR MOUNTED, RIM AT 14" AFF	KOHLER K3519 (-RA FOR RIGHT HAND FLUSH), OPEN FRONT SOLID PLASTIC SEAT, 1.0 GAL PER FLUSH, SLOAN FLUSHMATE
LAV	LAVATORY, BARRIER FREE	1/2	1/2	1-1/4	2	1-1/2	WALL HUNG WITH THERMOSTATIC MIXING VALVE SET AT 105°F.	KOHLER K-2867 WITH K-7404-5A FAUCET WITH ADA WRIST BLADES, GRID STRAINER AND #1160595 0.35 GPM MEDIUM SPRAY.
SK	BREAK ROOM SINK	1/2	1/2	1-1/2	2	1-1/2	COUNTER MOUNT	FURNISHED WITH KITCHEN EQUIPMENT, SEE ARCH
MS	MOP SINK	1/2	1/2	1-1/2	2	1-1/2	FLOOR MOUNTED	FIAT TSB-100 WITH 897 RCF FAUCET & 832AA HOSE BRACKET
FD1	TOILET ROOM FLOOR DRAIN	-	-	3	3	2	W/TRAP SEAL	WADE W-1100
TMV	THERMOSTATIC MIXING VALVE	3/8	3/8	-	-	-	SET FOR 105°F.	WATTS USG-B-SC-M1 ADJUSTABLE THERMOSTATIC MIXING VALVE
WH1	INSTANT WATER HEATER	1	1	-	-	-	SET FOR 105°F.	CHRONOMITE CMI-30L/120, 3.6KW, 120V, 49°F RISE AT 0.5 GPM

NOTES:
 1. PROVIDE ADA/TAS COMPLIANT FIXTURES, FAUCETS AND ACCESSORIES FOR ALL FIXTURES MARKED AS "BARRIER FREE".
 2. INSTALL "BARRIER FREE" FIXTURES AT ADA/TAS COMPLIANT HEIGHTS ABOVE FF.
 3. VERIFY ADA/TAS FIXTURE REQUIREMENTS PRIOR TO ROUGH-IN.

PLUMBING SPECIFICATIONS (SEE ALSO SHEET SP.3.0 FOR ADDITIONAL REQUIREMENTS)

PART 1) - QUALITY CONTROL
 a) Installer: Qualified with at least 5 years of successful installation experience on projects with work similar to that required for this project.
 b) NEC Compliance: Comply with the National Electric Code, NFPA 70, as applicable to wiring and other electrical construction of the unit.
 c) UL Compliance: Provide components with UL listing and labeling when there is an applicable UL category.
 d) Comply with the minimum standards prescribed in requirements and recommendations of the latest edition of the following codes and standards:
 (1) Underwriter's Laboratories, Inc. Standards.
 (2) International Plumbing Code current edition.
 (3) Other codes, ordinances, and laws applicable to the place of the Work.

PART 2) - PRODUCTS

c) DOMESTIC WATER SYSTEM
 i) Lead-Free Products:
 (1) Provide materials, products, and fabrications that comply with Environmental Protection Agency (EPA) requirements and recommendations regarding lead content and contribution of lead to potable water, that have no lead or lead alloys in contact with potable water, and that do not contribute to or cause lead water.
 (2) Solder: Lead free, ASTM B32 95-5 tin-antimony or Grade Sn96 tin-silver solder.
 (3) Flux: Containing not more than 0.2 percent lead, meeting NSF 61.

ii) Piping, Interior to 5' Outside:
 (1) Copper:
 (a) Straight water tube, K or L, ASTM B88 or B543.
 (b) Wrought copper and bronze solder-joint pressure fittings, ANSI B16.22.
 (2) Where indicated on Drawings to be Below, in, or Through Slab-On-Grade:
 (a) Copper, cold water tube, K or L, ASTM B88.
 (b) Wrought copper and bronze solder-joint pressure fittings, ANSI B16.22.
 (c) Pipe 1.5" or smaller, in or Under Slabs-on-Fill: Continuous, without joints or fittings.
 (d) Pipe 2" or larger, in or Under Slabs-on-Fill: Brazed joints.

(3) PEX:
 (a) Indicate on bid form alternate pricing for use of PEX piping and fittings.
 (b) Use above grade where concealed in walls or above ceiling only.
 (c) Provide with manufacturer's standard lead-free bronze fittings with disconnect feature.

iii) Back Flow Preventer (BFP)
 (1) BFP Back-Pressure Relief, High Hazard: Reduced pressure principle with double check valve assembly with intermediate relief valve for high hazard cross connections; ASSE No. 1013, ANWA C506, two isolating gate valves, built-in strainer, ball valve test cocks, suitable for horizontal or vertical installation as indicated on the Drawings; Watts No. 909 series, Conbraco 40-200.
 (2) BFP Carbonated Soft Drink Dispenser: Line size 1/2"; Watts No. SS009. Line size 1/4" or 3/8".

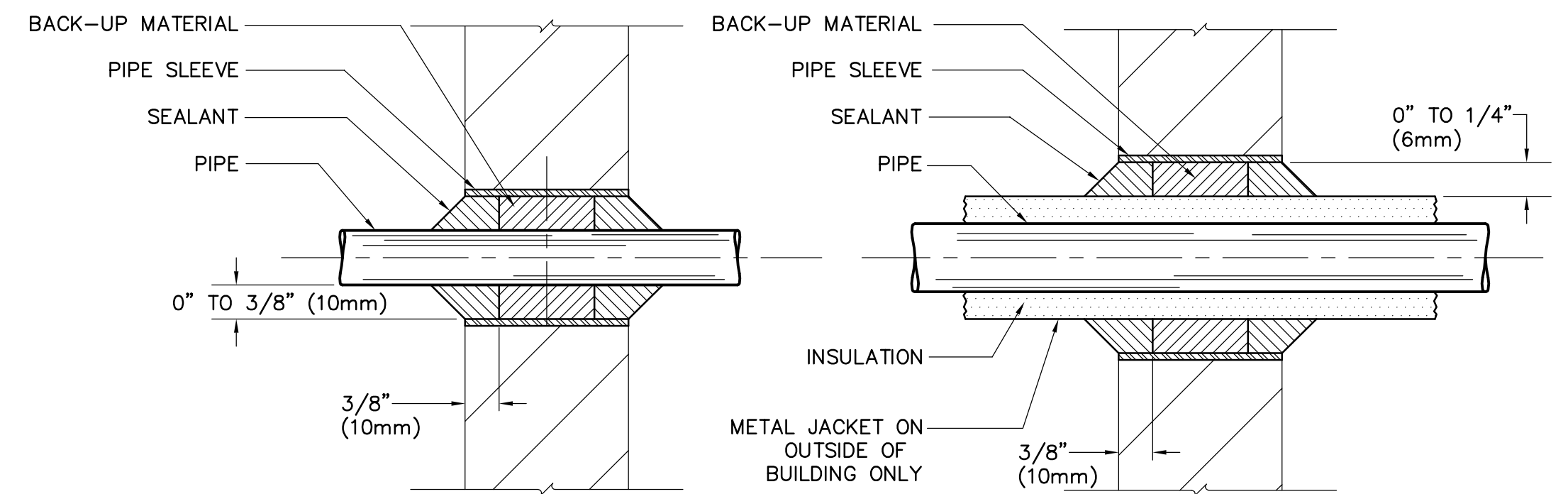
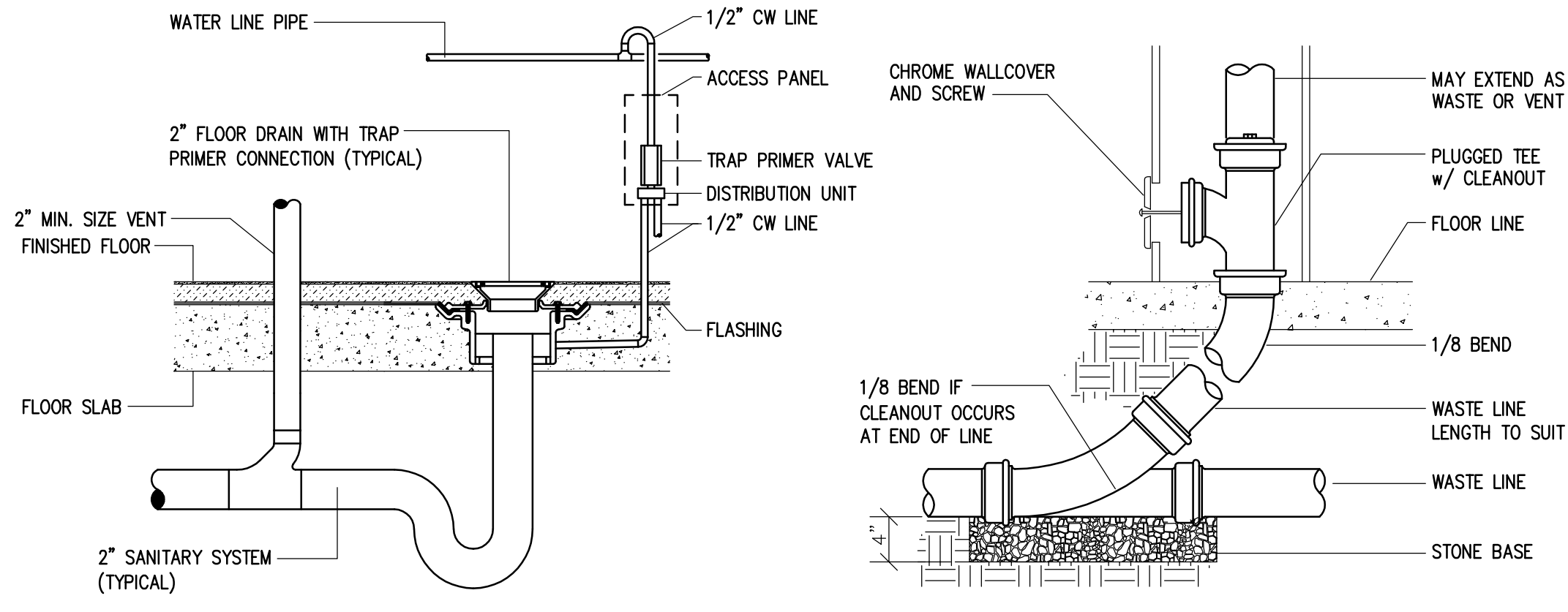
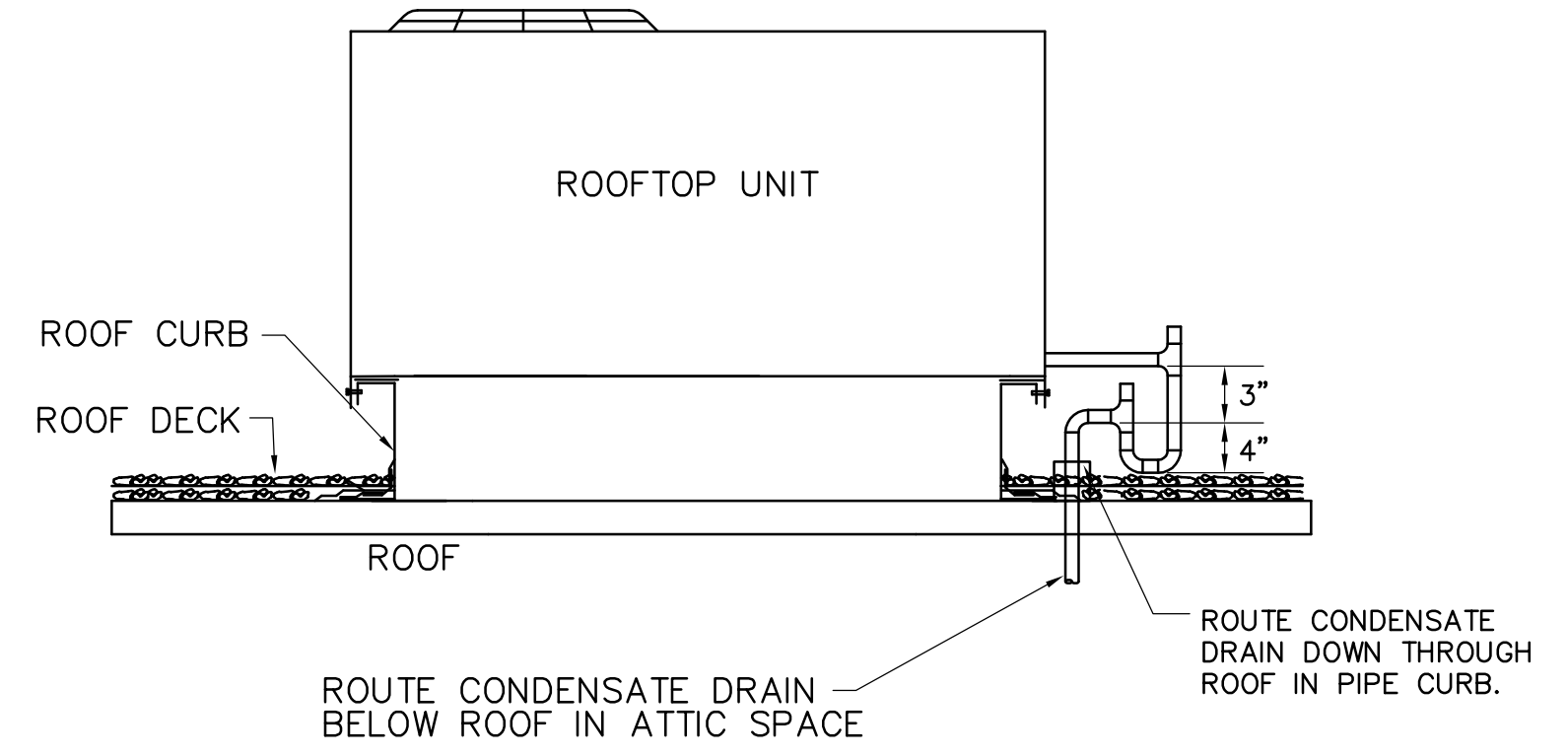
b) DRAINAGE PRODUCTS
 i) Acceptable manufacturers: Jonespec, Josam, Smith, Wade, Watts, Zurn.
 ii) Cleanouts: ANSI A112.36.2M.
 (1) WCO (Wall cleanouts): Square, flush-with-wall frame, 2" larger than od of cleanout plug.
 (2) Chromium plated bronze frame, stainless steel or chrome plated cover; Josam 58640, Smith 4735.
 (b) Polished bronze frame and cover; Josam 58640-2, Smith 4735 PB.
 (c) Nickel bronze frame, stainless steel or chrome plated cover; Josam 58640, Smith 4735.

iii) Floor Drains: ANSI A112.21.1M.
 (1) Provide with two-piece body, flashing collars with weepage openings, auxiliary inlet tap for trap primer when indicated, deep-seal P-trap; size and model as indicated on the Drawings.
 (2) Floor Sink: 11.5" square top, 8" deep body, flange with weep holes and clamp ring, acid-resisting porcelain enameled interior, non-lift loose acid-resisting porcelain enameled half-open grate, stainless-steel mesh bucket strainer; size and model as indicated on the Drawings.
 (3) Indirect Drain Fittings (Open sight):
 (a) Provide with deep-seal P-trap; size indicated on the Drawings.
 (b) HD Hub and Trap: Cast iron, no-hub or spigot outlet, hub inlet sized the larger of the size indicated on the Drawings or two inches larger than the indirect drain indicated, deep-seal P-trap.
 (2) Provide access door if not otherwise accessible.

c) DRAIN, WASTE, AND VENT (DWV, within building to 5 feet outside)
 i) Below Grade or Below Slab on Carton Form: Use one of the following.
 (1) Extra heavy hub and spigot, ASTM A74; rubber gaskets, ASTM C564.
 (2) Service weight or extra heavy hub-and-spigot ASTM A74; rubber gaskets, ASTM C564.
 (3) Copper Drainage Tube (DWV) pipe ASTM B306; fittings, cast bronze solder-joint, ANSI B16.23 or wrought copper and wrought copper alloy solder-joint, ANSI B16.29; solder, ASTM-70, 50A.
 (4) Schedule 40 polyvinyl chloride (PVC) pipe and fittings, ASTM D2665; solvent cement ASTM D2564.
 ii) Above Grade: Use one of the following.
 (1) No hub, Cast Iron Soil Pipe Institute Standard 301, ANSI Group 022, for pipe, fittings, and gaskets.
 (2) Extra heavy hub and spigot, ASTM A74; rubber gaskets, ASTM C564.
 (3) Service weight or extra heavy hub-and-spigot ASTM A74; rubber gaskets, ASTM C564.
 (4) Copper Drainage Tube (DWV) pipe ASTM B306; fittings, cast bronze solder-joint, ANSI B16.23 or wrought copper and wrought copper alloy solder-joint, ANSI B16.29; solder, ASTM-70, 50A.
 iii) Vent (1-1/4 inches above ground):
 (1) Any of the above.
 (2) Steel, schedule 40 galvanized steel, ASTM A120; cast-iron threaded drainage fittings, ANSI B16.12.
 iv) Drain (Indirect):
 (1) Copper: Drainage tube (DWV) pipe ASTM B306; fittings, cast bronze solder-joint, ANSI B16.23 or wrought copper and wrought copper alloy solder-joint, ANSI B16.29; solder, ASTM-70, 50A.
 (2) Steel: Galvanized, Schedule 40, ASTM A120; galvanized malleable iron screwed fittings, 150 lbs., ANSI B16.4.

d) FOUNDATIONS, HANGERS AND SUPPORTS
 i) General Purpose: Manufacturers Standardization Society SP-69 or Federal Specification WW-H-171d, types as recommended or required. Perforated or plain metal strap and wire are not acceptable.
 ii) Hangers in Contact With Copper Pipe: Same as for general purpose, copper or copper plated with plastic coating.

e) INSULATION
 i) Hot and Cold Pipe:
 (1) Flexible Cellular Insulation (Foamed Plastic): Foamed plastic, flexible, K of 0.25 at 75°F, 220°F temperature limit, density of 5.8pcf, ASTM C534, R4.0.
 (2) UL listed pipe flame spread 25, smoke developed 50, fuel contributed 50.
 (3) Provide thicknesses and install as recommended by manufacturer.
 (4) Butt insulation together and adhere in place with manufacturer's recommended contact cement. Where possible, slip tubing on without slitting. Where insulation terminates, neatly bevel and finish.
 (5) Roof Drains and Interior Downspouts: Vertical piping, except between roof-deck drain and first elbow and within two feet of non-vertical piping, need not be insulated; insulate other RD and DS piping, and insulate the roof-deck drain (RD) sumps with sheet insulation. Horizontal piping within crawl-space need not be insulated.
 (6) Hot and Cold Water, Hot Water Circulating: Provide thickness recommended by manufacturer. Maintain vapor barrier on cold water piping insulation.
 (7) Where Exposed to View, Beneath the Building, or Exposed to Weather:
 (a) Paint with insulation manufacturer's paint finish, tinted as selected by Architect-Engineer, specifically formulated if exposed outdoors.
 (b) Provide 16 gage aluminum or stainless steel cover with matching aluminum or stainless steel bands spaced 18 inches over pipe and fittings where exposed to weather or exposed to occupants and within 84 inches of the floor.
 (8) Product: Armstrong Armaflex with WB Armaflex Finish indoors, Armstrong Armaflex with SB Armaflex Finish outdoors.



PLUMBING SYMBOL LEGEND (NOTE: NOT ALL SYMBOLS MAY BE USED)

— SANITARY SEWER	↑ PRESS-TEMP INSERTION FITTING
— GW — GREASE TRAP WASTE	AVY V AUTO VENT, MAN VENT
— COLD WATER	GLOBE VALVE
— HOT WATER	CHECK VALVE
— FW — FILTERED COLD WATER	PLUG VALVE
— 105° — 105° F HOT WTR	PIPE ANCHOR
— 110° — 110° F HOT WTR	BALL VALVE
— 115° — 115° F HOT WTR	UNION
— 140° — 140° F HOT WTR	FLANGED FITTING
— — — — — HOT WATER RETURN TEMP AS INDICATED	INLINE PUMP, PLAN
— VENT	INLINE PUMP, ELEV
— D — CONDENSATE DRAIN	END CAP
— G — GAS LINE	GATE VALVE
— F — FIRE SPRINKLER	DIRECTION OF FLOW
— SD — STORM DRAIN	DOUBLE CHECK(BFP)
— RD — ROOF DRAIN	PRESS REGULATING VA
— OD — OVERFLOW DRAIN	ABV ABOVE
FD □ FLOOR DRAIN, FLOOR SINK	BLW BELOW
HD HUB DRAIN	VTR VENT THRU ROOF
DGCO DOUBLE GRADE CLEAN OUT	BFP BACK FLOW PREVENTER
FCO FLOOR CLEAN OUT	TMV THERMOSTATIC MIXING VALVE
WCO WALL CLEAN OUT	RPZ REDUCED PRESSURE ZONE
WH WALL HYDRANT	WATER HAMMER ARRESTOR
HB HOSE BIB	V.B. VALVE BOX ACCESS DOOR
CWV COMBINATION WASTE VENT	P.C. POWER CONVERTER ACCESS DOOR

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6 June 2026
 G.G. MALONEY, JR.
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PLUMBING NOTES & DETAILS

GAMEDAY
 190 Creekside Crossing,
 New Braunfels, 78130 Texas

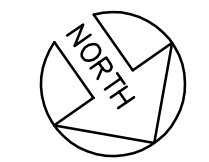
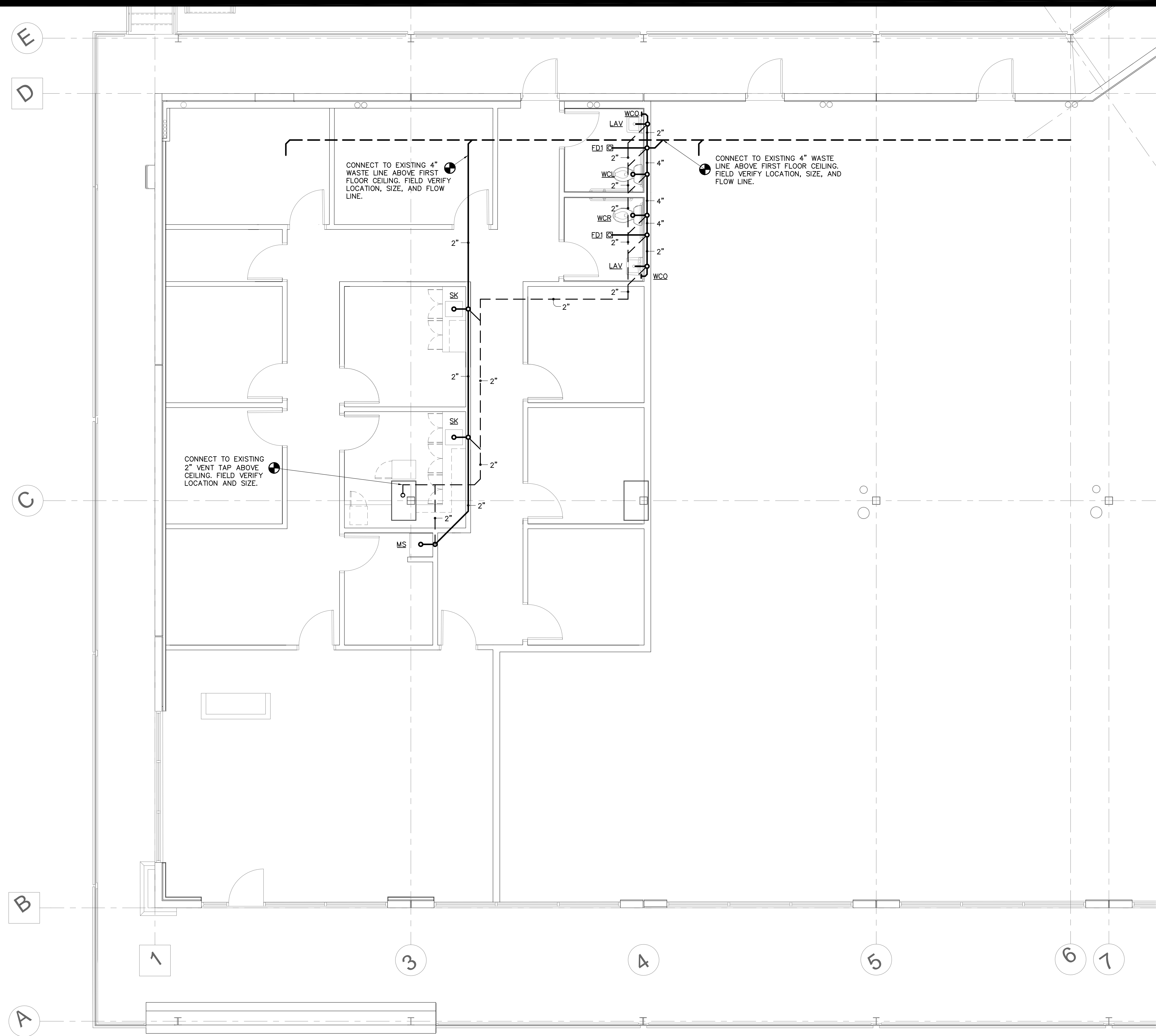
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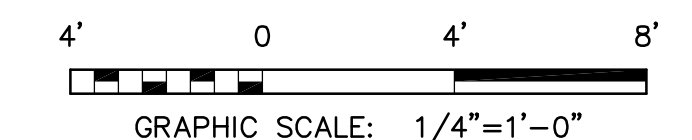
PROJECT NO.
04-26-26

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P0.00

Jun 08, 2026 - 6:55pm
 P1.00-Plumbing Waste Plan.dwg



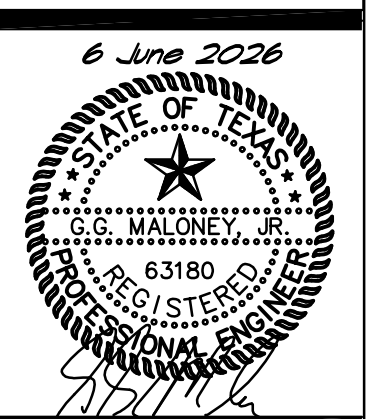
1 PLUMBING WASTE PLAN
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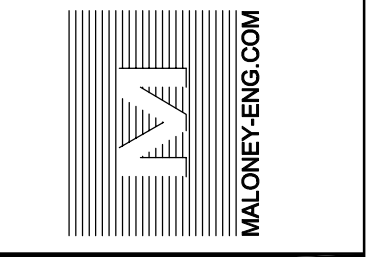
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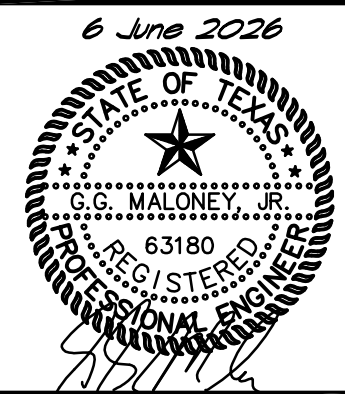
PLUMBING WASTE PLAN
GAMEDAY
 190 Creekside Crossing,
 New Braunfels, 78130 Texas

DATE	DESCRIPTION	BY

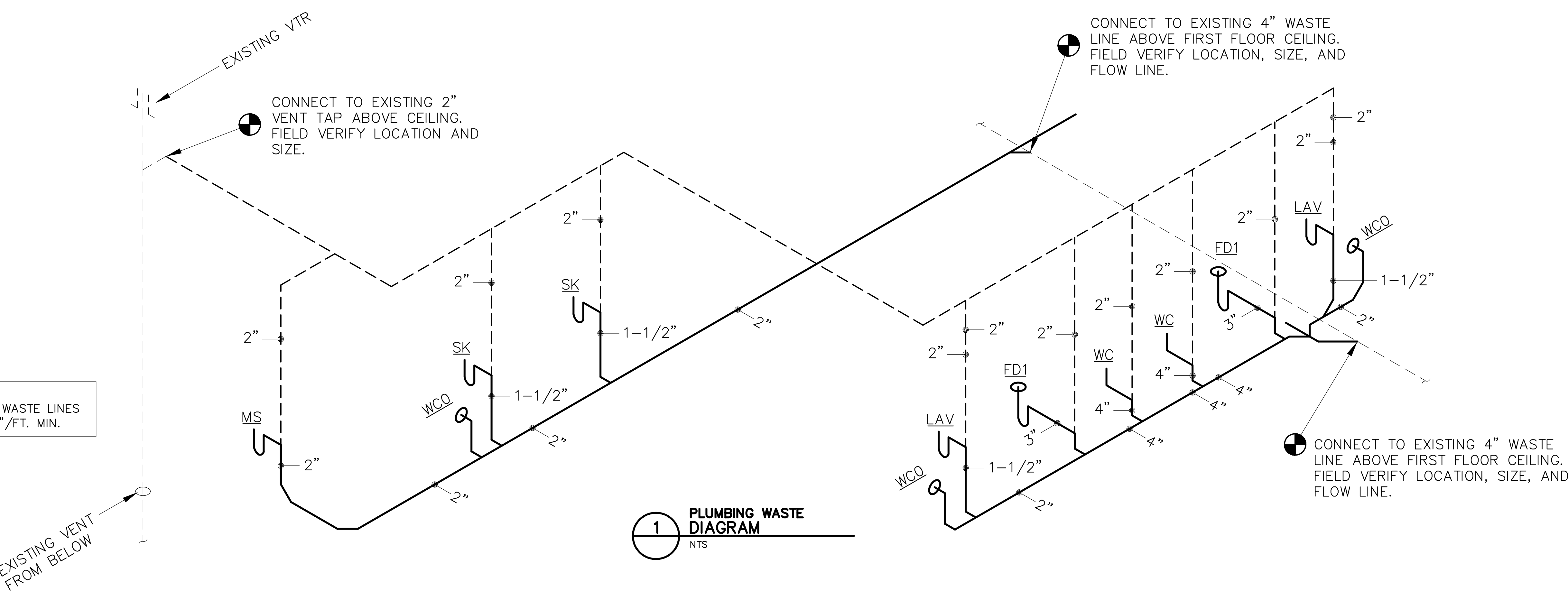
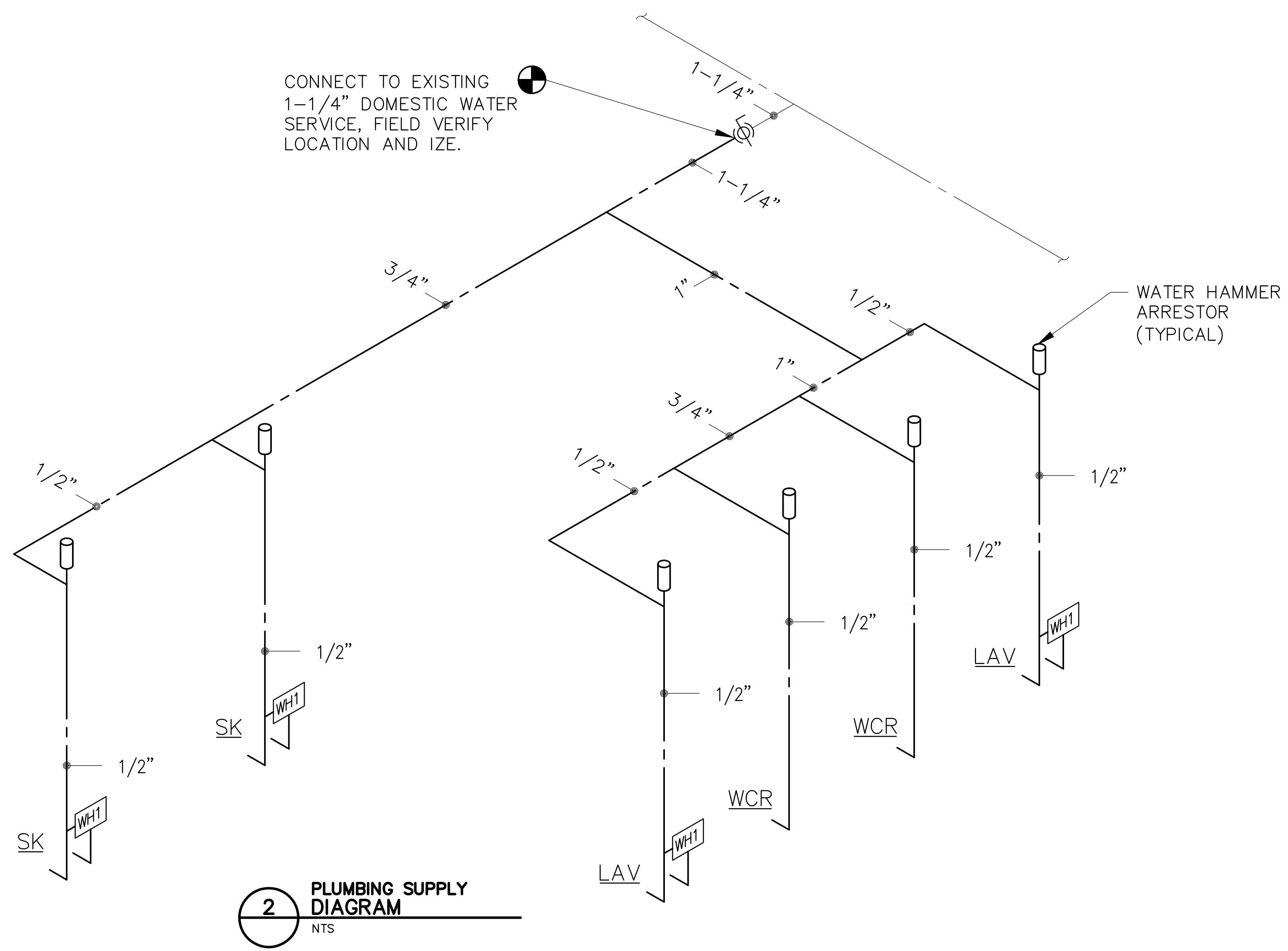
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SHEET NO.
 P1.00



NOTE:
 PROVIDE MIN 1" INSULATION FOR HOT WATER. PER IECC 504.5 - PIPING SHALL BE INSULATED WITH 1 INCH OF INSULATION HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/Hxft2xF.



NOTE:
 PITCH WASTE LINES @ 1/4"/FT. MIN.

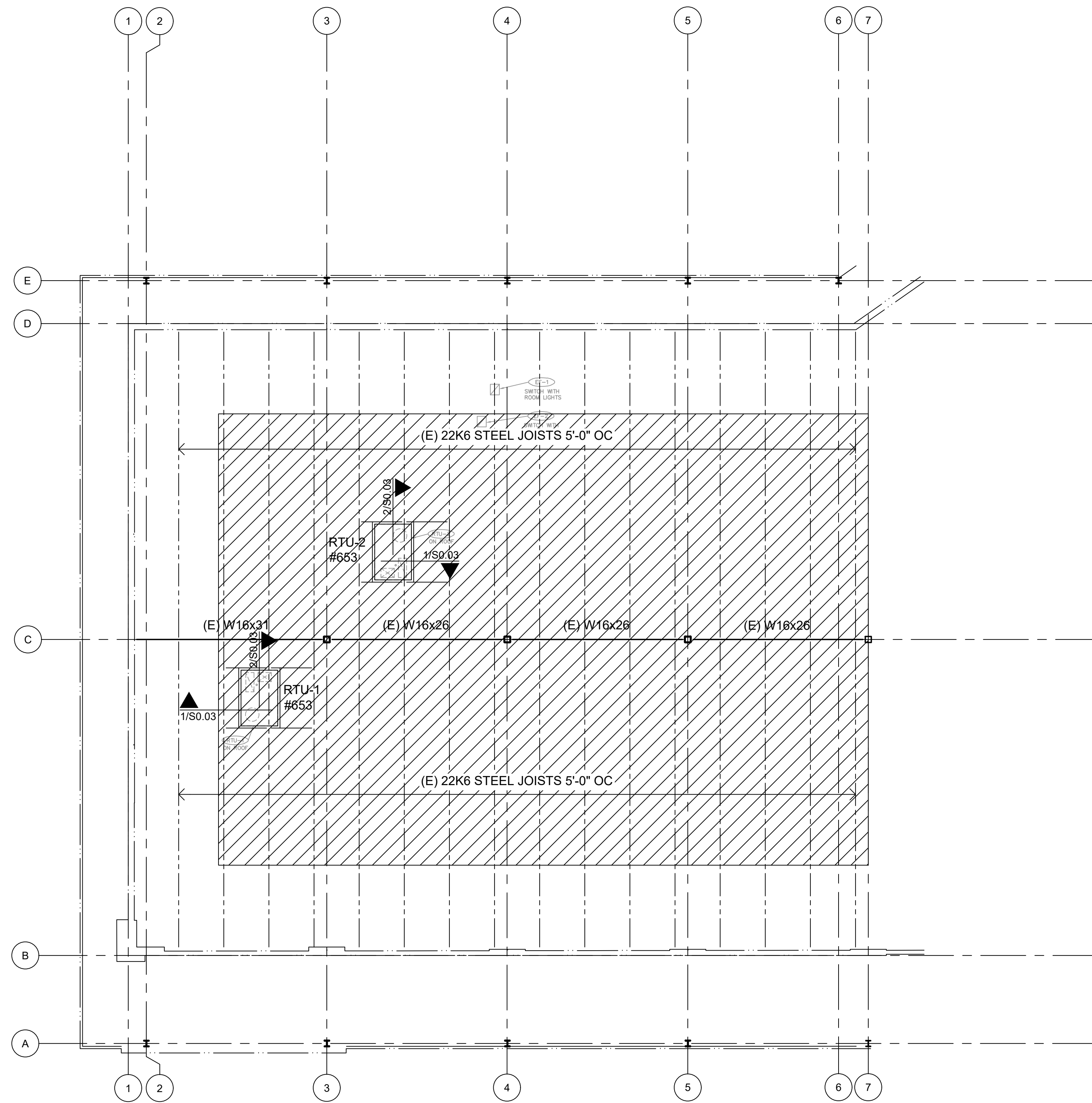
PLUMBING RISERS
GAMEDAY
 190 Creekside Crossing,
 New Braunfels, 78130 Texas

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SCALE:
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 04-26-26

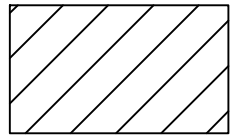
SHEET NO.
 P2.00



1 PARTIAL FRAMING PLAN
SCALE: 1/8" = 1'-0"

FRAMING NOTES:

1. FIELD VERIFY ALL DIMENSIONS AND COORDINATE WITH ARCHITECTURAL DRAWINGS.
- 1.1. INTEGRITY ENGINEERING SOLUTIONS, LLC. HAS UTILIZED EXISTING DOCUMENTS AND PROVIDED SITE CONDITIONS TO ACCOUNT AND DETAIL FOR EXISTING CONDITIONS. HOWEVER, NOT ALL ITEMS CAN BE VERIFIED, SO NOTIFY EOR WHERE CONDITIONS ARE DIFFERENT FROM WHAT IS NOTED ON PLAN. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE ENGINEER'S APPROVAL.
2. SUBMITTAL SHALL BE APPROVED BY EOR PRIOR TO INSTALLATION.
3. ROOFTOP UNIT WEIGHTS INCREASED FOR CALCULATION ONLY BY 20% PER IBC1607.11.2.
4. REFER TO 4/S0.03 FOR REQUIRED BRACING AT NEW CONCENTRATED RTU LOADS.

LEGEND	
(E) JOIST	EXIST STEEL JOIST
(E) WF BEAM	EXIST STEEL BEAM
	EXISTING MECHANICAL ZONE DESIGNED FOR 1500 LBS POINT LOAD AT ANY LOCATION ON JOIST



Principled + Reliable + Innovative + Motivated + Efficient
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 IES Project #26-MIS-010



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY PHILIPPE J. LALONDE, P.E. 89364 (TX-FIRM #26484) ON 06-09-2026.

SSFCU 306 RETAIL
GAMEDAY MLA
 190 CREEKSIDE CROSSING
 NEW BRAUNFELS, TEXAS

REVISIONS:

DRAWN: ZK CHECKED: PL

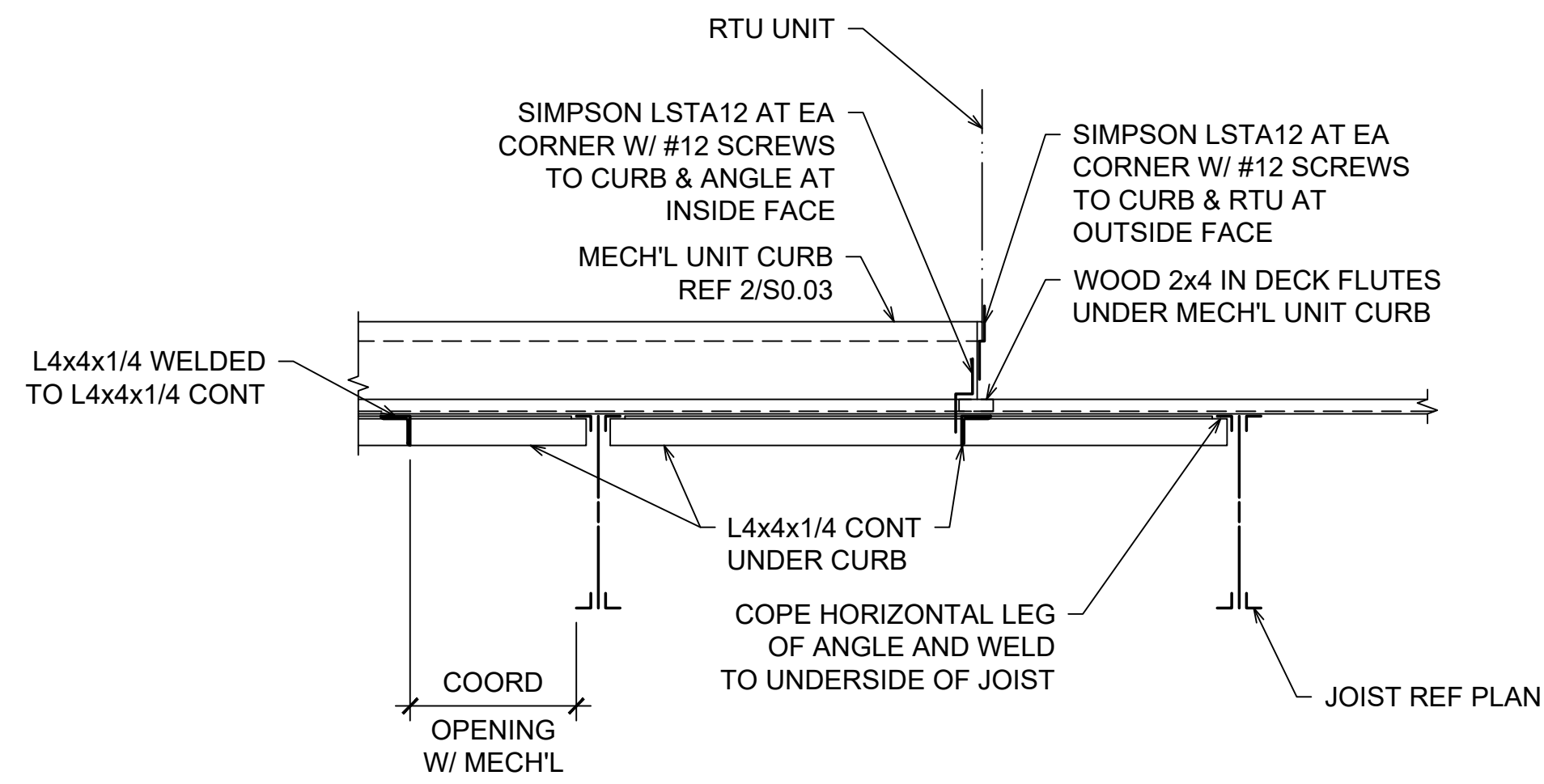
JOB NUMBER: 26-MIS010

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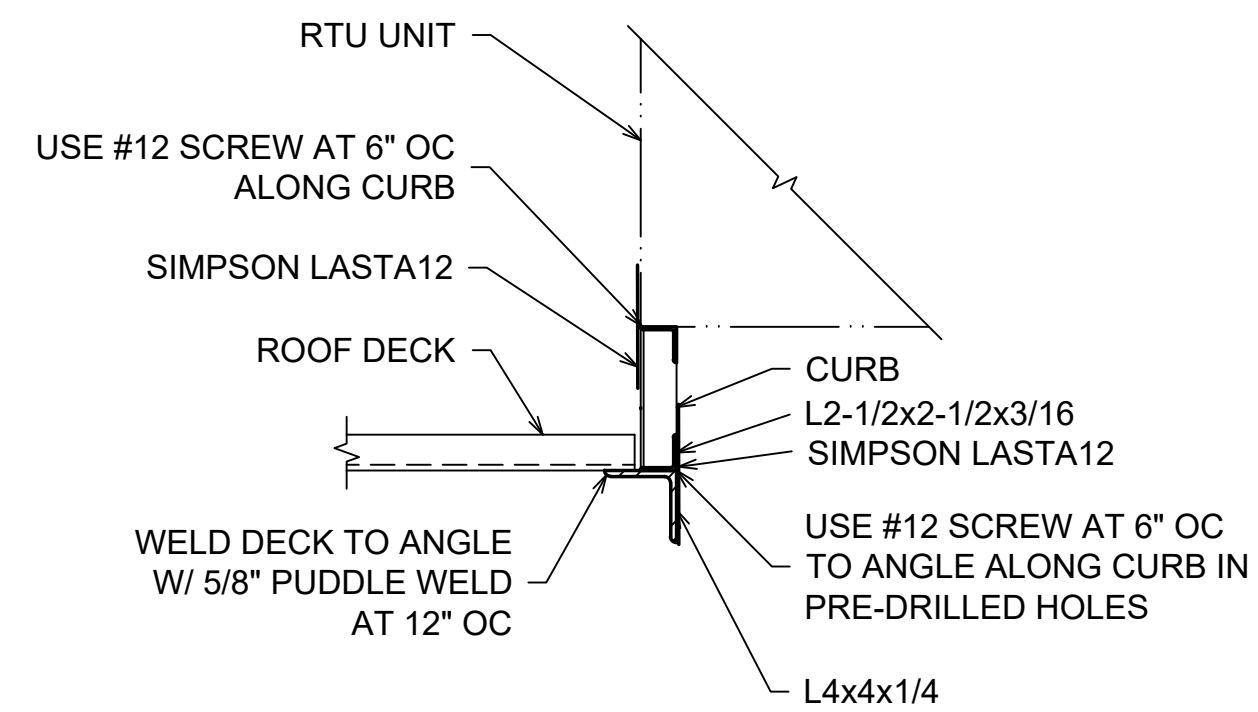
PARTIAL FRAMING PLAN

SHEET NUMBER

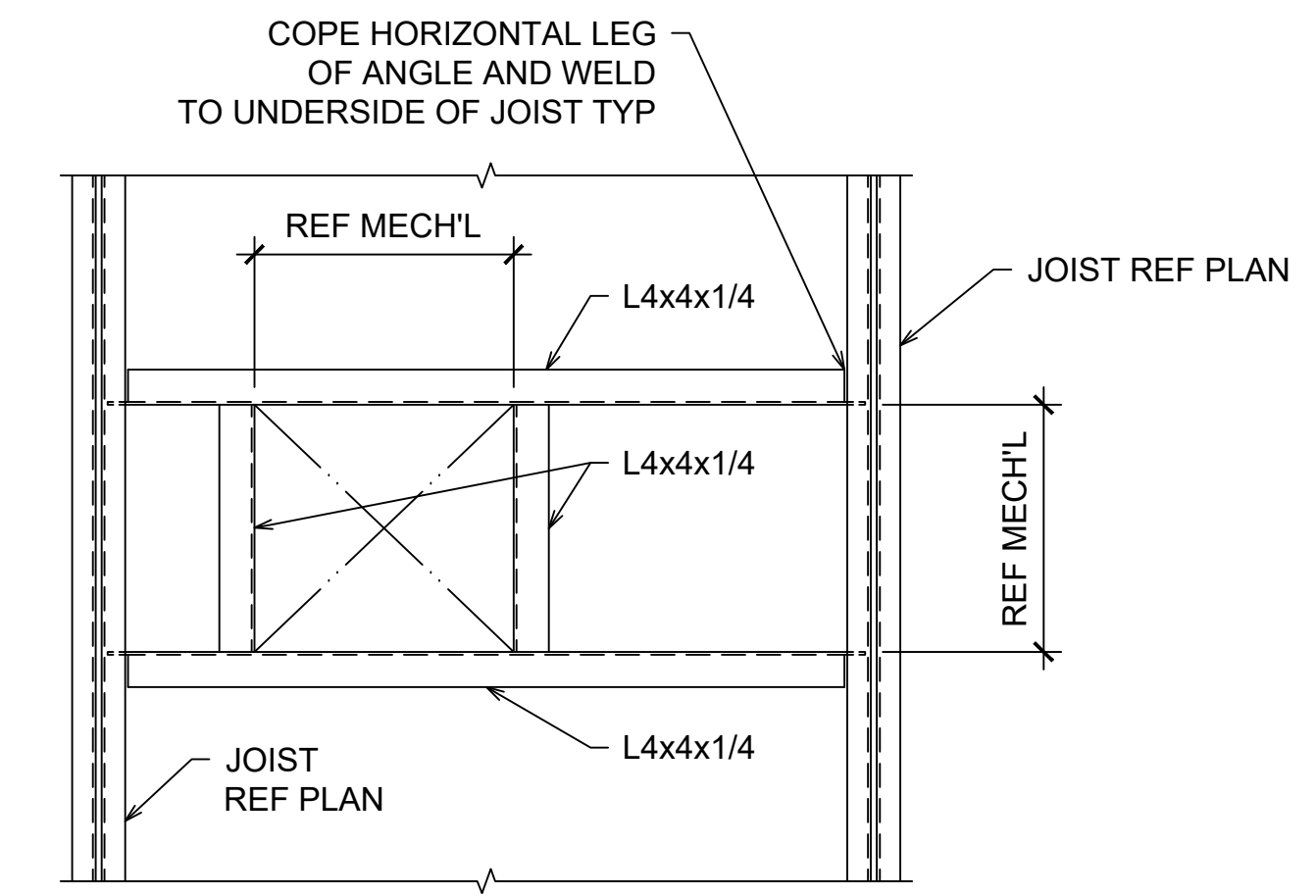
S0.02



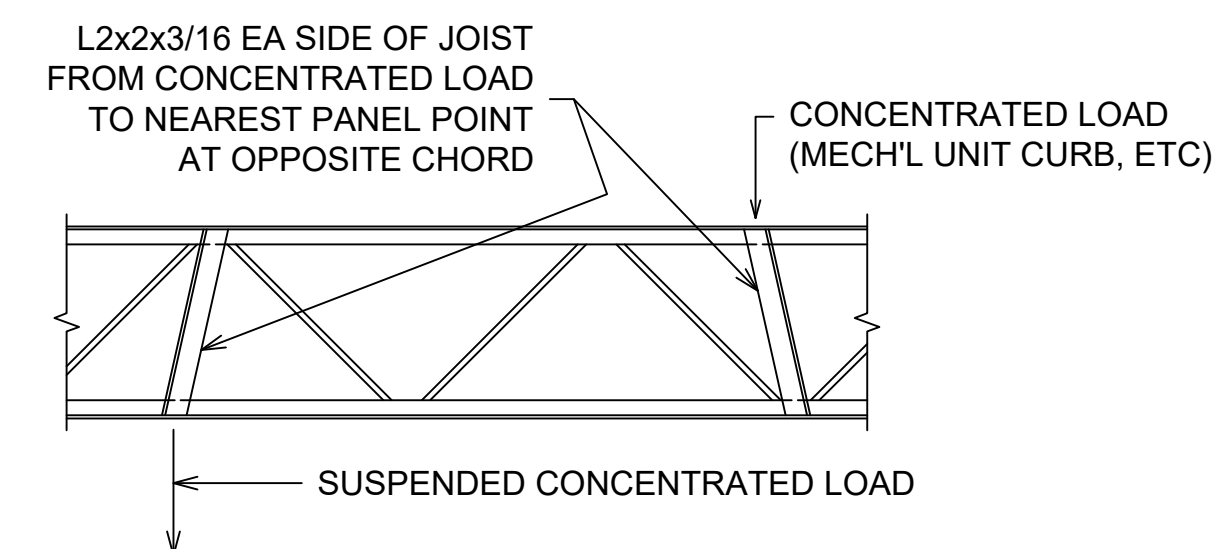
1 TYPICAL MECH'L UNIT CURB SUPPORT
SCALE: 3/4" = 1'-0"



2 ROOF CURB DETAIL
SCALE: 3/8" = 1'-0"



3 TYPICAL FRAME AT ROOF OPENING
SCALE: 3/4" = 1'-0"

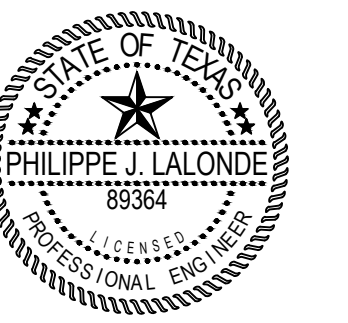


NOTE: THIS DETAIL APPLIES TO ALL CONCENTRATED LOADS WHICH EXCEED 50# AND ARE LOCATED MORE THAN 3' OFF PANEL POINT.

4 TYPICAL BRACING AT CONCENTRATED LOADS
SCALE: 3/4" = 1'-0"



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 NEW BRAUNFELS, TEXAS

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RTU FRAMING DETAILS

SHEET NUMBER
S0.03

LIST OF ABBREVIATIONS	
AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADDNL	ADDITIONAL
AFF	ABOVE FINISH FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ARCHL	ARCHITECTURAL
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
B	
BLDG	BUILDING
BL	BRICK LEDGE
BM	BEAM
BO	BOTTOM OF
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DECK
BMD	BOTTOM OF METAL DECK
BP	BASE PLATE
BRG	BEARING
C	
C	CHANNEL SHAPE
C=	BEAM CAMBER
CFMF	COLD FORMED METAL FRAMING
CJ	CONSTRUCTION JOINT
CL	CENTERLINE
CLR	CLEAR CLEARANCE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CONX	CONNECTION
D	
D	DEPTH
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DWG	DRAWING(S)
E	
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
EN	EDGE NAILING
EOD	EDGE OF DECK
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXIST	EXISTING
F	
FD	FLOOR DRAIN
FF	FINISH FLOOR
FIN	FINISH
FLR	FLOOR
FN	FIELD NAILING
FTG	FOOTING
FV	FIELD VERIFY
G	
GA	GAGE OR GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
H	
HORIZ	HORIZONTAL
HS	HEADED STUD
HSS	HOLLOW STRUCTURAL SECTION
I	
IN	INCHES
J	
JC	JAMB COLUMN
K	
K	KIPS (1,000 LBS)
L	
L	ANGLE SHAPE
LB.#	POUNDS
LL	LIVE LOAD
LLR	ROOF LIVE LOAD
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LWC	LIGHT WEIGHT CONCRETE
M	
MATL	MATERIAL
MAX	MAXIMUM
MC	MISCELLANEOUS CHANNEL SHAPE
MECHL	MECHANICAL
MEP	MECHANICAL ELECTRICAL PLUMBING
MEZZ	MEZZANINE
MANUF	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
N	
N/A	NOT APPLICABLE
NO	NUMBER
N/S	NOT TO SCALE
O	
OC	ON CENTER
OPP	OPPOSITE
OH	OPPOSITE HAND
P	
PERP	PERPENDICULAR
PL	PLATE
PREFAB	PREFABRICATED
PRELIM	PRELIMINARY
P/T	POST-TENSIONED
R	
RD	ROOF DRAIN
REF	REFER TO
REINF	REINFORCING
REINFC	REINFORCED
REINFCM	REINFORCEMENT
REQD	REQUIRED
REV	REVISION
S	
SCHED	SCHEDULE
SDE	STEEL DECK INSTITUTE
SIM	SIMILAR
SJ	SAWN JOINT
SJI	STEEL JOIST INSTITUTE
SP	SPACE(S); SPECIAL SPECIFICATION(S)
SPEC	SPECIFICATION(S)
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
SW	SHEAR WALL
T	
TO	TOP OF
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TW	TILT WALL
TYP	TYPICAL
U	
UNO	UNLESS NOTED OTHERWISE
V	
VERT	VERTICAL
W	
W	WIDE FLANGE
W	WITH
W/O	WITHOUT
WP	WORKPOINT
WT	WEIGHT
WWF	WELDED WIRE FABRIC

GENERAL CONDITIONS

- BUILDING AND DESIGN CODES:
 - INTERNATIONAL BUILDING CODE (2021)
 - AISC 360-16 SPECIFICATION FOR STEEL BUILDINGS
 - SJI RECOMMENDED CODE OF STANDARD PRACTICE FOR STEEL JOISTS AND JOIST GIRDERS, SJI 100-20 AND SJI 200-15
- DESIGN LOADS:
 - LIVE LOADS: UNIFORM ROOF 20
 - DEAD LOADS: ROOF DEAD LOAD 20
 - WIND LOADS: 3 SECOND GUST WIND SPEED: 109 MPH IN 3 SECOND GUSTS EXPOSURE: C IMPORTANCE FACTOR: 1.0 INTERNAL PRESSURE COEFFICIENT: Gcp = +/- 0.18
 - SNOW LOADS: Pg = 5 PSF
- GENERAL REQUIREMENTS:

- VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING WORK OR FABRICATING MATERIALS. NOTIFY A/E OF DISCREPANCIES BEFORE PROCEEDING WITH ANY PHASE WORK.
- DO NOT SCALE DRAWINGS FOR THE PURPOSE OF ESTABLISHING DIMENSIONS.
- LOADINGS FOR MECHANICAL EQUIPMENT ARE BASED ON THE UNITS SHOWN ON THE MECHANICAL DRAWINGS. ANY CHANGES IN TYPE, SIZE, OR NUMBER OF PIECES OF EQUIPMENT SHALL BE REPORTED TO THE ARCHITECT FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.

STRUCTURAL STEEL

- PROVIDE STRUCTURAL STEEL OF THE FOLLOWING ASTM DESIGNATIONS UNLESS NOTED OTHERWISE:
 - EDGE ANGLES, BENT PLATES, HANGERS AND BRACES: ASTM A 36
- WELD MINIMUM SIZE AND STRENGTH:
 - PROVIDE MINIMUM SIZE OF FILLET WELDS AS SPECIFIED IN TABLE J2.4 OF THE AISC MANUAL.
 - PROVIDE MINIMUM EFFECTIVE THROAT THICKNESS OF PARTIAL PENETRATION GROOVE WELDS AS SPECIFIED IN TABLE J2.3 OF THE AISC MANUAL.
 - DEVELOP THE FULL TENSILE STRENGTH OF THE MEMBER ELEMENT JOINED, ON ALL SHOP AND FIELD WELDS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
 - PROVIDE ELECTRODES FOR FIELD OR SHOP WELDING THAT CONFORM TO ASTM A 233 (CLASS 70).
- STEEL FABRICATION:
 - FABRICATE AND ASSEMBLE STRUCTURAL MEMBERS/ASSEMBLIES IN SHOP TO GREATEST EXTENT POSSIBLE.
 - SPLICING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL BY THE ENGINEER.
 - FABRICATOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING ON THE SHOP DRAWINGS, ERRORS IN FABRICATION, AND THE CORRECT FITTING OF STRUCTURAL STEEL MEMBERS.
 - CONFORM TO THE AISC CODE OF STANDARD PRACTICE, FOR ERECTION TOLERANCES. FIELD MODIFICATION TO STRUCTURAL STEEL IS PROHIBITED WITHOUT PRIOR APPROVAL BY THE ENGINEER.
 - CLEAN STEEL OF RUST, LOOSE MILL SCALE AND OTHER FOREIGN MATERIALS WHERE REQUIRED FOR FABRICATION, FITTING UP, OR WELDING.
 - DO NOT CUT STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT PRIOR REVIEW AND APPROVAL OF THE ENGINEER.
- WELDS SHALL BE CONSIDERED TO BE CONTINUOUS UNLESS NOTED OTHERWISE.

MECHANICAL ROOF TOP UNIT COORDINATION

- OWNER TO ENSURE THAT EACH RTU, ROOF OPENINGS, AND DUCT DROPS ARE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. THE RTU SUPPLY AND RETURN OPENINGS NEED TO LINE UP WITH THE ROOF OPENINGS, AND EACH DUCT DROP MUST BE FULL SIZE OF EACH OPENING WITHOUT ANY OBSTRUCTIONS.

2021 IBC SCHEDULE OF STRUCTURAL SPECIAL INSPECTIONS

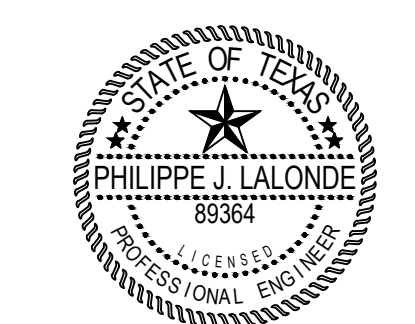
- SPECIAL INSPECTIONS / TESTING:
 - "SPECIAL STRUCTURAL INSPECTION" SHALL NOT RELIEVE THE OWNER OR THEIR AGENT FROM REQUESTING THE JURISDICTION BUILDING DEPARTMENT INSPECTIONS REQUIRED BY SECTION 109 OF THE IBC. THE JURISDICTION INSPECTIONS DO NOT ELIMINATE THE REQUIREMENT OF THE NOTED SPECIAL STRUCTURAL INSPECTIONS.
 - SPECIAL INSPECTION WORK AND THE FINAL LETTER OF COMPLIANCE HAVE NOT BEEN INCLUDED IN THE STRUCTURAL ENGINEER OF RECORD'S SCOPE OF SERVICES. THE OWNER IS RESPONSIBLE FOR OBTAINING THE SERVICES OF THE SPECIAL INSPECTOR AND THE TESTING LABORATORY. SPECIAL INSPECTIONS CAN BE PROVIDED BY AN INDEPENDENT SPECIAL INSPECTOR APPROVED BY THE BUILDING AUTHORITY OR BY THE ENGINEER OF RECORD. THE SPECIAL INSPECTION WORK DOES NOT INCLUDE THE TESTING LABORATORY SERVICES AS CALLED FOR ON THE DRAWINGS.
 - ARRANGEMENTS FOR SPECIAL INSPECTIONS SHOULD BE MADE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE OWNER IF SPECIAL INSPECTIONS ARE REQUIRED ON THE APPROVED PERMIT DRAWINGS AND FOR NOTIFYING THE TESTING LABORATORY AND SPECIAL INSPECTOR IN A TIMELY MANNER PRIOR TO PROCEEDING WITH CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK REQUIRING INSPECTIONS WITHOUT THE TESTING LABORATORY'S OR SPECIAL INSPECTOR'S PRESENCE. THE STRUCTURAL ENGINEER WILL NOT PROVIDE A FINAL LETTER OF COMPLIANCE AFTER THE WORK IS COMPLETE UNLESS HE HAS PERFORMED THE SPECIAL INSPECTIONS.
- REPORTING FOR SPECIAL INSPECTION:
 - SPECIAL INSPECTION AND TESTING REPORTS SHALL BE COMPLETED AND DISTRIBUTED AT THE COMPLETION OF EACH TASK. PROVIDE COPIES OF REPORTS TO: CONTRACTOR, OWNER, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. SPECIAL INSPECTOR TO KEEP A NON-COMPLIANCE LIST DOCUMENTING ITEMS INSPECTED NOT MEETING APPROVED CONSTRUCTION DOCUMENTS AND WHEN / HOW RESOLVED.
 - SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING CONSTRUCTION DOCUMENTS FOR ADDITIONAL NON-STRUCTURAL SPECIAL INSPECTION ITEMS.
 - IN ACCORDANCE WITH IBC CHAPTER 17, THE FOLLOWING TYPES OF WORK REQUIRE SPECIAL INSPECTIONS AND TESTING:

SPECIAL INSPECTION AND VERIFICATION OF STEEL CONSTRUCTION

SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	REFERENCED STANDARD
	1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:				
N	a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	----	X	----	APPLICABLE ASTM MATERIAL SPECIFICATIONS: AISC 360 SECTION A3.3
N	b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	----	X	----	----
	2. INSPECTION OF HIGH-STRENGTH BOLTING:				
N	a. BEARING TYPE CONNECTIONS.	----	X	----	AISC 360, SECTION M2.5
N	b. SLIP-CRITICAL CONNECTIONS.	X	----	----	----
	3. MATERIAL VERIFICATION OF STRUCTURAL STEEL:				
N	a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	----	----	----	ASTM A 6, OR ASTM A 568
N	b. MANUFACTURER'S CERTIFIED MILL TEST REPORTS.	----	----	----	ASTM A 6, OR ASTM A 568
	4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
N	a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	----	----	----	AISC 360, SECTION A3.5
N	b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	----	----	----	----
	5. INSPECTION OF WELDING:				
	a. STRUCTURAL STEEL:				
N	1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	----	----	----	----
N	2) MULTIPASS FILLET WELDS.	X	----	----	----
N	3) SINGLE-PASS FILLET WELDS > 5/16"	----	----	----	AWS D1.1
Y	4) SINGLE-PASS FILLET WELDS < 5/16"	----	----	----	----
N	5) FLOOR AND ROOF DECK WELDS.	----	X	----	AWS D1.3
N	b. REINFORCING STEEL:	----	----	----	----
N	1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	----	X	----	----
N	2) REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.	X	----	----	AWS D1.4 ACI 318 3.5.2
N	3) SHEAR REINFORCEMENT.	X	----	----	----
N	4) OTHER REINFORCING STEEL	----	X	----	----
	6. INSPECTION OF STEEL FRAME JOINT DETAIL FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:				
Y	a. DETAILS SUCH AS BRACING AND STIFFENING.	----	X	----	----
N	b. MEMBER LOCATIONS.	----	X	----	----
Y	c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	----	X	----	----



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GENERAL NOTES

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S0.04