

# KHIT CHIROPRACTIC & WELLNESS CENTER

6151 E POST RD, KYLE, TX 78640

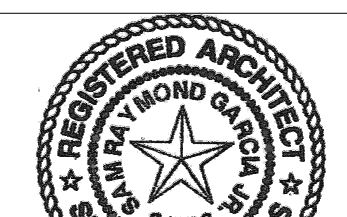


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## OWNER

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No.	PERMIT SET DESCRIPTION	DATE
1		06/05/23



06.05.23  
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# KHIT CHIROPRACTIC WELLNESS

6151 E. POST ROAD,  
KYLE, TX 78640

2022-008 06.05.23

COVER SHEET

CS



## DESIGN CONSULTANT TEAM

ARCHITECT	CIVIL	LANDSCAPE	STRUCTURE	MEP
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2025 RELEASE UNDER E.O. 14176

THE FOLLOWING SECTION OF DETAILS PROVIDES INFORMATION ON REQUIREMENTS FOR DISABLED ACCESSIBILITY. THE REQUIREMENTS COMBINE MINIMUM REQUIREMENTS OF STATE AND FEDERAL AGENCIES. THE PURPOSE OF THIS SECTION IS TO HELP AVOID INSTALLATION OF MATERIALS ON CONSTRUCTION PROJECTS THAT WOULD LIMIT ACCESSIBILITY. THE SCOPE OF THIS SECTION IS LIMITED AND THE INDIVIDUALS WORKING ON THE PROJECT SHOULD FAMILIARIZE THEMSELVES WITH THE TEXAS ACCESSIBILITY STANDARD (TAS) AND AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAA) FOR ADDITIONAL INFORMATION AND REQUIREMENTS. COPIES OF THESE DOCUMENTS MAY BE OBTAINED BY CONTACTING THE FOLLOWING:

TAS: TEXAS DEPT. OF LICENSING & REGULATION  
P.O. BOX 12157  
AUSTIN, TEXAS 78711  
(800) 803-9202  
TDD (800) 735-2989  
WWW.LICENSE.STATE.TX.US

ADAA: SOUTHWEST DISABILITY AND BUSINESS TECHNICAL ASSISTANCE CENTER FOR REGION VI.  
2323 S. SHEPHERD, SUITE 1000  
HOUSTON, TEXAS 77019  
ADA HOTLINE: (800) 949-4252  
TDD: (713) 520-5136 (713) 520-0232  
FAX: (713) 520-5785

IN THE EVENT THE INFORMATION ON THE PLAN SHEETS DOES NOT MEET THE MINIMUM REQUIREMENTS OF THE SECTION, THEN THE INFORMATION SHALL BE PRESENTED TO THE ARCHITECT FOR CLARIFICATION PRIOR TO CONSTRUCTION OF SPECIFIC AREA OF WORK.

**ELIMINATION OF ARCHITECTURAL BARRIERS UNIFORM FEDERAL ACCESSIBILITY STANDARDS (ADAA)**

IN ACCORDANCE WITH ACCESSIBILITY REQUIREMENTS, THE FOLLOWING STANDARDS SHALL BE INCLUDED WHEN BIDDING ON ANY PROJECT INVOLVING RENOVATION OF OR NEW FACILITIES FOR PUBLIC ACCOMMODATION OR COMMERCIAL FACILITIES. ANY ITEMS NOT CONFORMING TO THESE OR ANY OTHER STANDARDS, CODES, OR ORDINANCES SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ARCHITECT FOR HIS INTERPRETATION. IN THE EVENT THE INFORMATION LISTED IN THIS DOCUMENT CONFLICTS WITH ANY PORTION OF THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT, IN WRITING, OF HIS NEED FOR A SOLUTION TO RESOLVE THE CONFLICT. **THE MOUNTING HEIGHTS INDICATED ARE FOR ITEMS THAT REQUIRE ACCESSIBILITY BY DISABLED INDIVIDUALS. WHERE TWO OR MORE ITEMS ARE GROUPED IN ONE AREA (HORIZONTAL SIGNS, TOILETS, DRINKING FOUNTAINS, URINALS, SHELVES, TELEPHONES, ETC.) NOT ALL ITEMS IN THE AREA HAVE TO BE MOUNTED AT HANDICAP HEIGHT. CONTRACTOR TO COORDINATE THESE INSTALLATION HEIGHTS WITH OTHER MATERIALS FOR NEAT, TRIMMED OUT AND FINISHED CONNECTION. ITEMS FOR DISABLED INDIVIDUAL USE SHALL BE MOUNTED AT HEIGHT INDICATED FOR AGE LEVEL AS NOTED.**

**CHAPTER 1: APPLICATION AND ADMINISTRATION**

**TAS SECTION 104 - CONVENTIONS**

A. ALL DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY TOLERANCES EXCEPT WHERE THE REQUIREMENT IS STATED AS A RANGE WITH SPECIFIC MINIMUM AND MAXIMUM POINTS.

B. UNLESS SPECIFICALLY STATED OTHERWISE, FIGURES ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

**FR 2: SCOPING REQUIREMENTS**

**TAS SECTION 201.4 - SCOPE**

A. ALL AREAS OF NEWLY DESIGNED AND NEWLY CONSTRUCTED BUILDINGS AND FACILITIES AN ALTERED PORTIONS OF EXISTING BUILDINGS AND FACILITIES SHALL COMPLY WITH THESE REQUIREMENTS.

**TAS SECTION 202 - EXISTING BUILDINGS AND FACILITIES**

A. EACH ADDITION TO AN EXISTING BUILDING OR FACILITY SHALL COMPLY WITH THE REQUIREMENTS FOR NEW CONSTRUCTION. EACH ADDITION THAT AFFECTS OR COULD EFFECT THE USABILITY OF OR ACCESS TO AN AREA CONTAINING A PRIMARY FUNCTION SHALL COMPLY WITH 202.4.

B. WHERE EXISTING ELEMENTS, SPACES, OR COMMON USE AREAS ARE ALTERED, EACH ALTERED ELEMENT, SPACE, OR COMMON USE AREA SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF CHAPTER 2.

C. AN ALTERATION THAT DECREASES THE ACCESSIBILITY OF A BUILDING OR FACILITY BELOW THE REQUIREMENTS FOR NEW CONSTRUCTION AT THE TIME OF THE ALTERATION IS PROHIBITED.

D. AN ALTERATION OF AN EXISTING ELEMENT, SPACE, OR AREA OF A BUILDING OR FACILITY SHALL NOT IMPOSE A REQUIREMENT FOR ACCESSIBILITY GREATER THAN REQUIRED FOR NEW CONSTRUCTION.

E. ALTERATIONS THAT AFFECT THE USABILITY OR ACCESS TO AN AREA CONTAINING A PRIMARY FUNCTION SHALL BE MADE SO AS TO ENSURE USAGE BY INDIVIDUALS W/ DISABILITIES.

**TAS SECTION 204 - PROTRUDING OBJECTS**

A. WITHIN AREAS OF ACCESSIBLE ELEMENTS, ACCESSIBLE ROUTES, AND IN ACCESSIBLE ROOM AND SPACES SHALL COMPLY WITH 309.

B. WITHIN AREAS OF SPORTS ACTIVITY, PROTRUDING OBJECTS ON CIRCULATION PATHS SHALL NOT BE REQUIRED TO ATTENTION TO COMPLY WITH 307.

C. WITHIN PLAY AREAS, PROTRUDING OBJECTS ON CIRCULATION PATHS SHALL NOT BE REQUIRED TO COMPLY WITH 307 PROVIDED THAT GROUND LEVEL ACCESSIBLE ROUTES PROVIDE VERTICAL CLEARANCE IN COMPLIANCE WITH 1008.2.

**TAS SECTION 205 - OPERABLE PARTS**

A. OPERABLE PARTS ON ACCESSIBLE ELEMENTS, ACCESSIBLE ROUTES, AND IN ACCESSIBLE ROOMS AND SPACES SHALL COMPLY W/309.

B. OPERABLE PARTS INTENDED FOR USE ONLY BY SERVICE OR MAINTENANCE PERSONNEL SHALL NOT BE REQUIRED TO COMPLY WITH 309.

C. ELECTRICAL OR COMMUNICATION RECEPTACLES SERVING A DEDICATED USE SHALL NOT BE REQUIRED TO COMPLY WITH 309.

**TAS SECTION 206 - ACCESSIBLE ROUTES**

A. AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE FROM ACCESSIBLE PARKING SPACES AND ACCESSIBLE PASSENGER LOADING ZONES;PUBLIC STREETS AND SIDEWALKS; AND PUBLIC TRANSPORTATION STOPS TO THE ACCESSIBLE BUILDING OR FACILITY ENTRANCE THEY SERVE.

B. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE.

C. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT EACH STORY AND MEZZANINE IN MULTI-STORY BUILDINGS AND FACILITIES.

D. IN RESTAURANTS AND CAFETERIAS, AN ACCESSIBLE ROUTE SHALL BE PROVIDED TO ALL DINING AREAS, INCLUDING RAISED OR SUNKEN DINING AREAS, AND OUTDOOR DINING AREAS.

E. WHERE A CIRCULATION PATH DIRECTLY CONNECTS A PERFORMANCE AREA TO AN ASSEMBLY AREA, AN ACCESSIBLE ROUTE SHALL DIRECTLY CONNECT THE ASSEMBLY SEATING AREA WITH THE PERFORMANCE AREA. AN ACCESSIBLE ROUTE SHALL BE PROVIDED FROM PERFORMANCE AREAS TO ANCILLARY AREAS OR FACILITIES USED BY PERFORMERS.

**TAS SECTION 207 - ACCESSIBLE MEANS OF EGRESS**

A. MEANS OF EGRESS SHALL COMPLY WITH SECTION 1005.2.13.5 OF THE INTERNATIONAL BUILDING CODE (2000 EDITION AND 2001 SUPPLEMENT) OR SECTION 1007 OF THE INTERNATIONAL BUILDING CODE (2003 EDITION.)

B. STANDBY POWER SHALL BE PROVIDED FOR PLATFORM LIFTS PERMITTED BY SECTION 1005.2.13.4 OF THE INTERNATIONAL BUILDING CODE (2000 EDITION AND 2001 SUPPLEMENT) OR SECTION 1007.5 OF THE INTERNATIONAL BUILDING CODE (2003 EDITION) TO SERVE AS A PART OF AN ACCESSIBLE MEANS OF EGRESS.

**TAS SECTION 208 - PARKING SPACES**

A. PARKING SPACES SHALL COMPLY WITH 502 AND SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 208.2 EXCEPT REQUIRED BY 208.2.1, 208.2.2, AND 208.2.3. WHERE MORE THAN ONE PARKING FACILITY IS PROVIDED ON A SITE, THE NUMBER OF ACCESSIBLE SPACES PROVIDED ON THE SITE SHALL BE CALCULATED ACCORDING TO THE NUMBER OF SPACES REQUIRED FOR EACH PARKING FACILITY.

TOTAL PARKING IN LOT	REQUIRED MIN. NUMBER OF ACCESSIBLE SPACES	TOTAL PARKING IN LOT	REQUIRED MIN. NUMBER OF ACCESSIBLE SPACES
1 to 25	1	201 to 300	7
26 to 50	2	301 to 400	8
51 to 75	3	401 to 500	9
76 to 100	4	501 to 1000	2 PERCENT OF TOTAL
101 to 150	5	1000 AND OVER	20, PLUS 1 FOR EACH 100, OR FRACTION THEREOF, OVER 1000
151 to 200	6		

**TAS SECTION 208.2.4 - VAN PARKING SPACES**

A. FOR EVERY SIX OR FRACTION OF SIX PARKING SPACES REQUIRED BY 208.2 TO COMPLY W/ 502, AT LEAST ONE SHALL BE A VAN PARKING SPACE COMPLYING W/ 502.

**TAS SECTION 208.3 - LOCATION**

A. PARKING SPACES COMPLYING WITH 502 THAT SERVE A PARTICULAR BUILDING OR FACILITY SHALL BE LOCATED ON THE SHORTEST POSSIBLE ACCESSIBLE ROUTE FROM PARKING LOT TO AN ENTRANCE. WHERE PARKING SERVES MORE THAN ONE ACCESSIBLE ENTRANCE, PARKING SPACES COMPLYING WITH 502 SHALL BE DISPERSED AND LOCATED AT THE SHORTEST ACCESSIBLE ROUTE TO THE ACCESSIBLE ENTRANCES.

**TAS SECTION 209 - PASSENGER LOADING ZONES AND BUS STOPS**

A. PASSENGER LOADING ZONES, EXCEPT THOSE REQUIRED TO COMPLY WITH 209.2.2 AND 209.2.3, SHALL PROVIDE AT LEAST ONE PASSENGER LOADING ZONE COMPLYING WITH 503 IN EVERY CONTINUOUS 100 LINEAR FEET (30M) OF LOADING ZONE SPACE, OR FRACTION THEREOF.

B. IN BUS LOADING ZONES RESTRICTED TO USE BY DESIGNATED OR SPECIFIED PUBLIC TRANSPORTATION VEHICLES, EACH BUS BAY, BUS STOP, OR OTHER AREA DESIGNATED FOR LIFT OR RAMP DEPLOYMENT SHALL COMPLY WITH 810.2

**TAS SECTION 210 - STAIRWAYS**

A. INTERIOR AND EXTERIOR STAIRS THAT ARE PART OF A MEANS OF EGRESS SHALL COMPLY WITH 504. ALTHOUGH HANDRAILS ON STAIRS THAT ARE NOT PART OF A MEANS OF EGRESS, STATE OR LOCAL BUILDING CODES MAY REQUIRE HANDRAILS OR GUARDS.

**TAS SECTION 211 - DRINKING FOUNTAINS**

A. NO FEWER THAN TWO DRINKING FOUNTAINS SHALL BE PROVIDED.

B. MORE THAN THE MINIMUM NUMBER OF DRINKING FOUNTAINS SPECIFIED IN 211.2 ARE PROVIDED, 50 PERCENT OF THE TOTAL NUMBER OF DRINKING FOUNTAINS PROVIDED SHALL COMPLY WITH 602.1 THROUGH 602.6, AND 50 PERCENT OF THE TOTAL NUMBER OF DRINKING FOUNTAINS PROVIDED SHALL COMPLY WITH 602.7

**TAS SECTION 212 - KITCHENS, KITCHENETTES, AND SINKS**

A. KITCHENS AND KITCHENETTES SHALL COMPLY WITH 804.

B. WHERE SINKS ARE PROVIDED, AT LEAST 5 PERCENT, BUT NO FEWER THAN ONE, OF EACH TYPE PROVIDED IN EACH ACCESSIBLE ROOM OR SPACE SHALL COMPLY W/ 606.

**TAS SECTION 213 - TOILET FACILITIES AND BATHING FACILITIES**

A. WHERE TOILET FACILITIES AND BATHING FACILITIES ARE PROVIDED, THEY SHALL COMPLY WITH 213. TOILET FACILITIES AND BATHING FACILITIES SHALL BE PROVIDED ON A STORY CONNECTED BY AN ACCESSIBLE ROUTE TO AN ACCESSIBLE ENTRANCE.

B. TOILET RESTROOMS AND BATHING ROOMS SHALL COMPLY WITH 603.

C. WHERE MULTIPLE SINGLE USER TOILET ROOMS ARE CLUSTERED AT A SINGLE LOCATION, NO MORE THAN 50% OF THE SINGLE USER TOILET ROOMS FOR EACH USE AT EACH CLUSTER SHALL BE REQUIRED TO COMPLY WITH 603.

D. UNISEX TOILET ROOMS AND UNISEX BATHING ROOMS SHALL CONTAIN NOT MORE THAN ONE LAVATORY, AND TWO WATER CLOSETS WITHOUT URINALS OR ONE WATER CLOSET AND ONE URINAL. UNISEX BATHING ROOMS CONTAIN ONE SHOWER OR ONE SHOWER AND ONE BATHTUB, ONE LAVATORY, AND ONE WATER CLOSET. DOORS TO UNISEX RESTROOMS AND BATHING ROOMS SHALL HAVE PRIVACY LATCHES.

**TAS SECTION 214 - WASHING MACHINES AND CLOTHES DRYERS**

A. WHERE THREE OR FEWER WASHING MACHINES ARE PROVIDED, AT LEAST ONE SHALL COMPLY WITH 611. WHERE MORE THAN THREE WASHING MACHINES ARE PROVIDED, AT LEAST TWO SHALL COMPLY WITH 611.

B. WHERE THREE OR FEWER CLOTHES DRYERS ARE PROVIDED, AT LEAST ONE SHALL COMPLY WITH 611. WHERE MORE THAN THREE CLOTHES DRYERS ARE PROVIDED, AT LEAST TWO SHALL COMPLY WITH 611.

**TAS SECTION 215 - FIRE ALARM SYSTEMS**

A. ALARMS IN PUBLIC USE AREAS AND COMMON USE AREAS SHALL COMPLY WITH 702.

B. WHERE EMPLOYEE WORK AREAS HAVE AUDIBLE ALARM COVERAGE, THE WIRING SYSTEM SHALL BE DESIGNED SO THAT THE VISIBLE ALARMS COMPLYING WITH 702 CAN BE INTEGRATED INTO THE ALARM SYSTEM.

**TAS SECTION 216 - SIGNS**

A. SIGNS SHALL COMPLY WITH 703. BUILDING DIRECTORIES, MENUS, SEAT AND ROW DESIGNATIONS IN ASSEMBLY AREAS, OCCUPANT NAMES, BUILDING ADDRESSES, AND COMPANY NAMES AND LOGOS SHALL NOT BE REQUIRED TO COMPLY W/ 216.

B. SIGNS REQUIRED BY SECTION 1005.2.13.5.4 OF THE INTERNATIONAL BUILDING CODE (2000 EDITION) OR SECTION 1007.6.4 OF THE INTERNATIONAL BUILDING CODE (2003 EDITION) TO PROVIDE INSTRUCTIONS IN AREAS OF REFUGE SHALL COMPLY WITH 703.5.

C. DIRECTIONAL SIGNS REQUIRED BY SECTION 1005.2.13.6 OF THE INTERNATIONAL BUILDING CODE (2000 EDITION) OR SECTION 707.7 OF THE INTERNATIONAL BUILDING CODE (2003 EDITION) TO PROVIDE DIRECTIONS TO ACCESSIBLE MEANS OF EGRESS SHALL COMPLY WITH 703.5.

D. WHERE NOT ALL ENTRANCES COMPLY WITH 404, ENTRANCES COMPLYING WITH 404 SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 703.7.2.1 DIRECTIONAL SIGNS COMPLYING WITH 703.5 THAT INDICATE THE LOCATION OF THE NEAREST ENTRANCE COMPLYING WITH 404 SHALL BE PROVIDED AT ENTRANCES THAT DO NOT COMPLY WITH 404.

**TAS SECTION 217 - TELEPHONES**

A. WHERE PUBLIC TELEPHONE ARE PROVIDED, WHEELCHAIR ACCESSIBLE TELEPHONES COMPLYING WITH 704.2 SHALL BE PROVIDED.

**CHAPTER 2: SCOPING REQUIREMENTS (CONTINUED)**

**TAS SECTION 219 - ASSISTIVE LISTENING SYSTEMS**

A. EACH ASSEMBLY AREA WHERE AUDIBLE COMMUNICATION IS INTEGRAL TO THE USE OF THE SPACE, AN ASSISTIVE LISTENING SYSTEM SHALL BE PROVIDED.

**TAS SECTION 219 - ASSISTIVE LISTENING SYSTEMS (CONTINUED)**

**TAS SECTION 219 - ASSISTIVE LISTENING SYSTEMS**

A. EACH ASSEMBLY AREA WHERE AUDIBLE COMMUNICATION IS INTEGRAL TO THE USE OF THE SPACE, AN ASSISTIVE LISTENING SYSTEM SHALL BE PROVIDED.

B. WHERE ALL SEATS IN AN ASSEMBLY AREA ARE SERVED BY AN INTRODUCTION LOOP ASSISTIVE LEARNING SYSTEM, THE MINIMUM NUMBER OF RECEIVERS REQUIRED BY TABLE 219.3 TO BE HEARING-AID COMPATIBLE SHALL NOT BE REQUIRED TO BE PROVIDED.

**TAS SECTION 220 - AUTOMATIC TELLER MACHINES AND FARE MACHINES**

A. WHERE AUTOMATIC TELLER MACHINES OR SELF-SERVICE FARE VENDING, COLLECTION, OR ADJUSTMENT MACHINES ARE PROVIDED, AT LEAST ONE OF EACH TYPE PROVIDED AT EACH LOCATION SHALL COMPLY WITH 707. WHERE BINS ARE PROVIDED FOR ENVELOPES, WASTE PAPER, OR OTHER PURPOSES, AT LEAST ONE OF EACH SHALL COMPLY WITH 811.

**TAS SECTION 221 - ASSEMBLY AREAS**

A. ASSEMBLY AREAS SHALL PROVIDE WHEELCHAIR SPACES, COMPANION SEATS, AND DESIGNATED AISLE SEATS COMPLYING WITH 221 AND 802.

B. WHEELCHAIR SPACES COMPLYING WITH 802.1 SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 221.2.1.

C. WHEELCHAIR SPACES SHALL BE AN INTEGRAL PART OF THE SEATING PLAN.

D. WHEELCHAIR SPACES SHALL PROVIDE LINES OF SIGHT COMPLYING WITH 802.2. IN PROVIDING LINES OF SIGHT, WHEELCHAIR SPACES SHALL BE DISPERSED. WHEELCHAIR SPACES SHALL PROVIDE SPECIFICATIONS WITH CHOICES OF SEATING LOCATIONS OR VIEWING ANGLES EQUAL TO OR BETTER THAN SEATING LOCATIONS AND VIEWING ANGLES OF OTHER SPECTATORS.

E. AT LEAST 5% OF THE TOTAL NUMBER OF AISLE SEATS PROVIDED SHALL COMPLY WITH 802.4 AND SHALL BE THE AISLE SEATS LOCATED CLOSEST TO THE ACCESSIBLE ROUTE.

TABLE 221.2.1 NUMBER OF WHEELCHAIR SPACES IN ASSEMBLY AREAS

NUMBER OF SEATS	REQUIRED MIN. NUMBER OF WHEELCHAIR SPACES	NUMBER OF SEATS	REQUIRED MIN. NUMBER OF WHEELCHAIR SPACES
4 to 25	1	301 to 500	6
26 to 50	2	501 to 5000	6, PLUS 1 FOR EACH 150, OR FRACTION THEREOF, BETWEEN 501 THROUGH 5000
51 to 150	4		36, PLUS 1 FOR EACH 200, OR FRACTION THEREOF, OVER 5000
151 to 300	5	5001 AND OVER	

**TAS SECTION 222 - DRESSING, FITTING, AND LOCKER ROOMS**

A. WHERE DRESSING ROOMS, FITTING ROOMS, OR LOCKER ROOMS ARE PROVIDED, AT LEAST 5%, BUT NO FEWER THAN ONE, OF EACH TYPE OF USE IN EACH CLUSTER PROVIDED SHALL COMPLY WITH 803.

B. WHERE COAT HOOKS OR SHELVES ARE PROVIDED IN DRESSING FITTING OR LOCKER ROOMS W/O INDIVIDUAL COMPARTMENTS, AT LEAST ONE OF EACH TYPE SHALL COMPLY WITH 803.5. WHERE COAT HOOKS OR SHELVES ARE PROVIDED IN INDIVIDUAL COMPARTMENTS AT LEAST ONE OF EACH TYPE SHALL BE PROVIDED IN ACCORDANCE WITH 223.

**TAS SECTION 223 - MEDICAL CARE AND LONG-TERM CARE FACILITIES**

A. IN LICENSED MEDICAL CARE FACILITIES AND LICENSED LONG-TERM CARE FACILITIES WHERE THE PERIOD OF STAY EXCEEDS TWENTY-FOUR HOURS, PATIENT OR RESIDENT SLEEPING ROOMS SHALL BE PROVIDED IN ACCORDANCE WITH 223. TOILET ROOMS PART OF CRITICAL OR INTENSIVE CARE PATIENT SLEEPING ROOMS SHALL NOT BE REQUIRED TO COMPLY WITH 603.

**TAS SECTION 224 - TRANSIENT LODGING FACILITIES AND GUEST ROOMS**

A. TRANSIENT LODGING FACILITIES SHALL PROVIDE GUEST ROOMS IN ACCORDANCE WITH 224. PLACES OF LODGING AND HOUSING AT A PLACE OF EDUCATION SHALL COMPLY WITH THE PROVISIONS APPLICABLE TO TRANSIENT LODGING, INCLUDING, BUT NOT LIMITED TO, THE REQUIREMENTS FOR TRANSIENT LODGING GUEST ROOMS IN SECTIONS 224 AND 306.

B. ENTRANCES, DOORS, AND DOORWAYS PROVIDING USER PASSAGE INTO AND WITHIN THE GUEST ROOMS THAT ARE NOT REQUIRED TO PROVIDE MOBILITY FEATURES COMPLYING WITH 806.2 SHALL COMPLY WITH 404.2.3.

C. IN GUEST ROOMS HAVING MORE THAN 25 BEDS, 5% MINIMUM OF THE BEDS SHALL HAVE CLEAR FLOOR SPACE COMPLYING WITH 806.2.3.

**TAS SECTION 225 - STORAGE**

A. WHERE STORAGE IS PROVIDED, AT LEAST ONE OF EACH TYPE SHALL COMPLY WITH 811.

B. WHERE LOCKERS ARE PROVIDED, AT LEAST 5%, BUT NO FEWER THAN ONE OF EACH TYPE, SHALL COMPLY WITH 811.

**TAS SECTION 226 - DINING SURFACES AND WORK SURFACES**

A. WHERE DINING SURFACES ARE PROVIDED FOR THE CONSUMPTION OF FOOD OR DRINK, AT LEAST 5% OF THE SEATING SPACES AND STANDING SPACES AT THE DINING SURFACES SHALL COMPLY WITH 902. IN ADDITION, WHERE WORK SURFACES ARE PROVIDED FOR USE BY OTHER THAN EMPLOYEES, AT LEAST 5% SHALL COMPLY WITH 902.

**TAS SECTION 227 - SALES AND SERVICE**

A. WHERE PROVIDED, CHECK-OUT AISLES, SALES COUNTERS, SERVICE COUNTERS, FOOD SERVICE LINES, QUEUES, AND WAITING LINES SHALL COMPLY WITH 227 AND 904.

B. WHERE COUNTERS ARE PROVIDED, AT LEAST ONE OF EACH TYPE OF SALES COUNTER AND SERVICE COUNTER SHALL COMPLY WITH 904.4. WHERE COUNTERS ARE DISPERSED THROUGHOUT THE FACILITY, COUNTERS COMPLYING WITH 904.4 SHALL ALSO BE DISPERSED.

C. QUEUES AND WAITING LINES SERVING COUNTERS OR CHECK-OUT AISLES REQUIRED TO COMPLY WITH 904.3 OR 904.4 SHALL COMPLY WITH 403.

**TAS SECTION 228 - REPOSITORIES, VENDING MACHINES, CHANGE MACHINES, VAIL BOXES**

A. WHERE PROVIDED, AT LEAST 1 OF EACH TYPE OF DEPOSITORY, VENDING MACHINE, CHANGE MACHINE, & FUEL DISPENSER SHALL COMPLY W/ 309.

B. WHERE MAIL BOXES ARE PROVIDED IN AN INTERIOR LOCATION, AT LEAST 5%, BUT NO FEWER THAN ONE OF EACH TYPE SHALL COMPLY WITH 309.

**TAS SECTION 229 - WINDOWS**

A. WHERE GLAZED OPENINGS ARE PROVIDED IN ACCESSIBLE ROOMS OR SPACES FOR OPERATION BY OCCUPANTS, AT LEAST ONE MUST OPENING SHALL COMPLY WITH 309. EACH GLAZED OPENING REQUIRED BY AN ADMINISTRATIVE AUTHORITY TO BE OPERABLE SHALL COMPLY WITH 309.

**TAS SECTION 230 - TWO-WAY COMMUNICATION SYSTEMS**

A. WHERE A TWO-WAY COMMUNICATION SYSTEM IS PROVIDED TO GAIN ADMITTANCE TO A BUILDING OR FACILITY OR TO BE OBSERVED AREAS WITHIN A BUILDING OR FACILITY, THE SYSTEM SHALL COMPLY WITH 708.

**TAS SECTION 240 - PLAY AREAS**

A. WHERE GROUND LEVEL PLAY COMPONENTS ARE PROVIDED, AT LEAST 1 OF EACH TYPE SHALL BE ON AN ACCESSIBLE ROUTE & SHALL COMPLY W/ 1008.4.

B. WHEN ELEVATED PLAY COMPONENTS ARE PROVIDED, AT LEAST 50% SHALL BE ON AN ACCESSIBLE ROUTE AND SHALL COMPLY WITH 1008.4.

**TAS SECTION 242 - SWIMMING POOLS, WADING POOLS, AND SPAS**

A. AT LEAST TWO ACCESSIBLE MEANS OF ENTRY SHALL BE PROVIDED FOR SWIMMING POOLS.

B. AT LEAST ONE ACCESSIBLE MEANS FOR ENTRY FOR WADING POOLS AND SPAS.

**TAS SECTION 243 - SHOOTING FACILITIES WITH FIRING POSITIONS**

A. WHERE SHOOTING FACILITIES WITH FIRING POSITIONS ARE DESIGNED AND CONSTRUCTED AT A SITE, AT LEAST 5%, BUT NO FEWER THAN ONE OF EACH TYPE OF FIRING POSITCSION SHALL COMPLY WITH 1010.

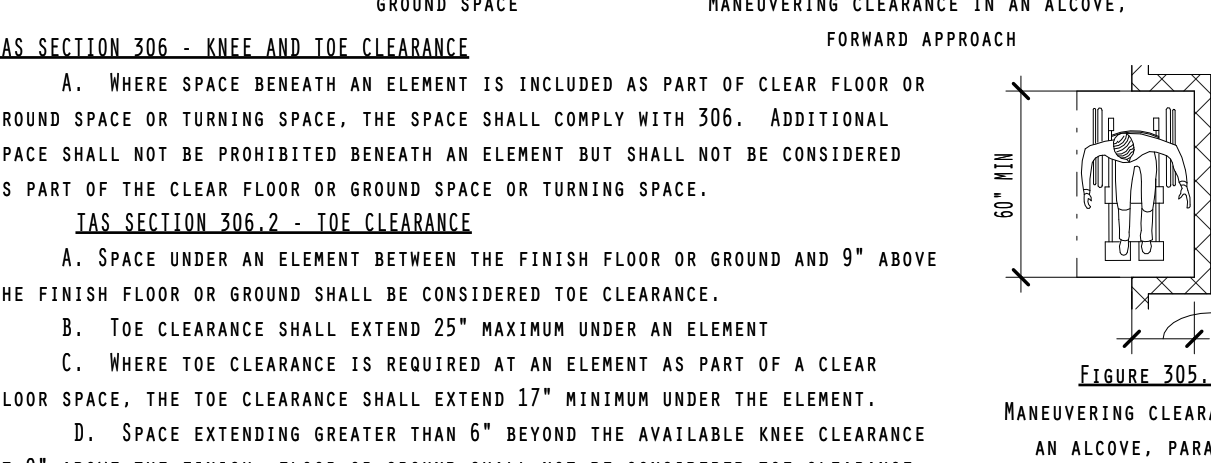
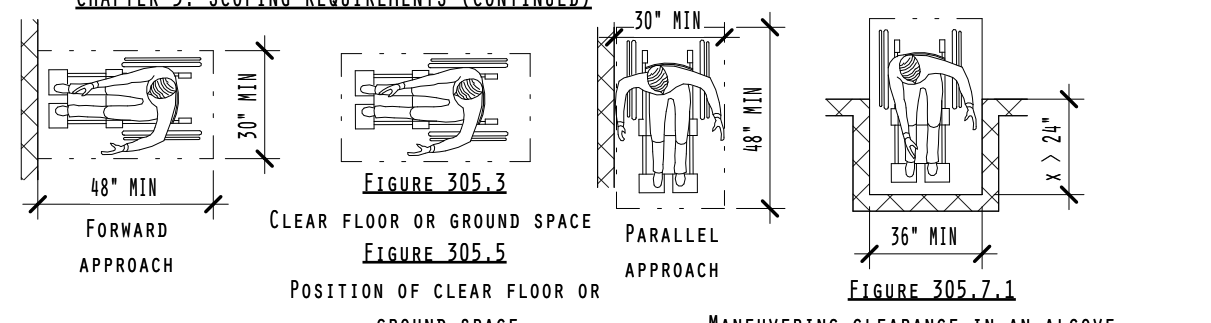
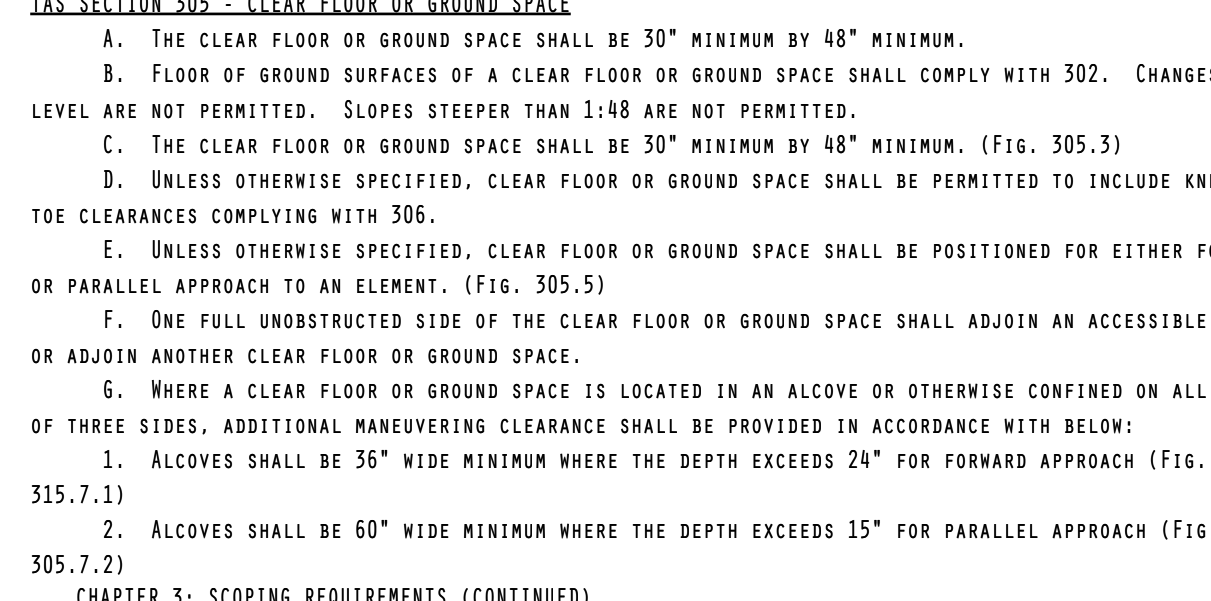
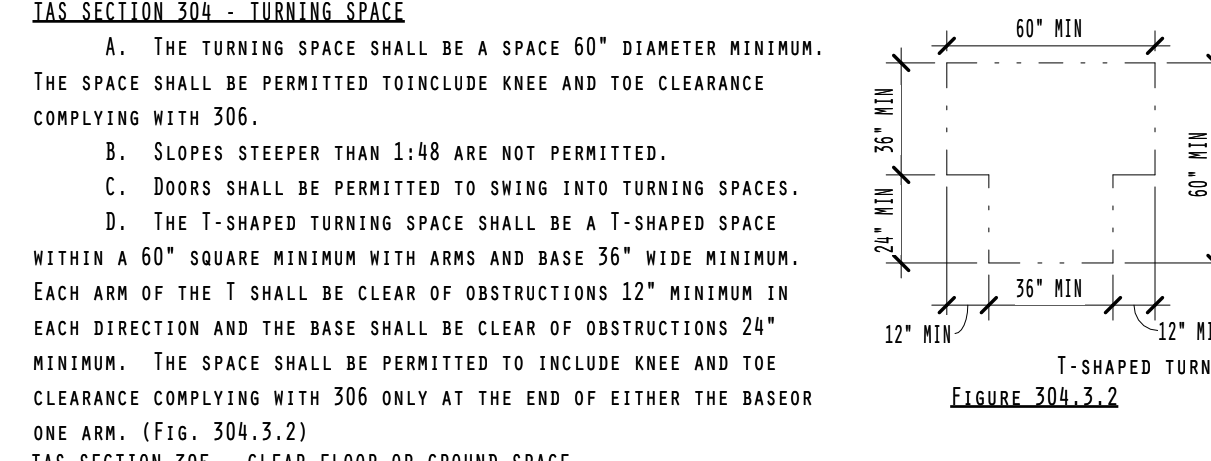
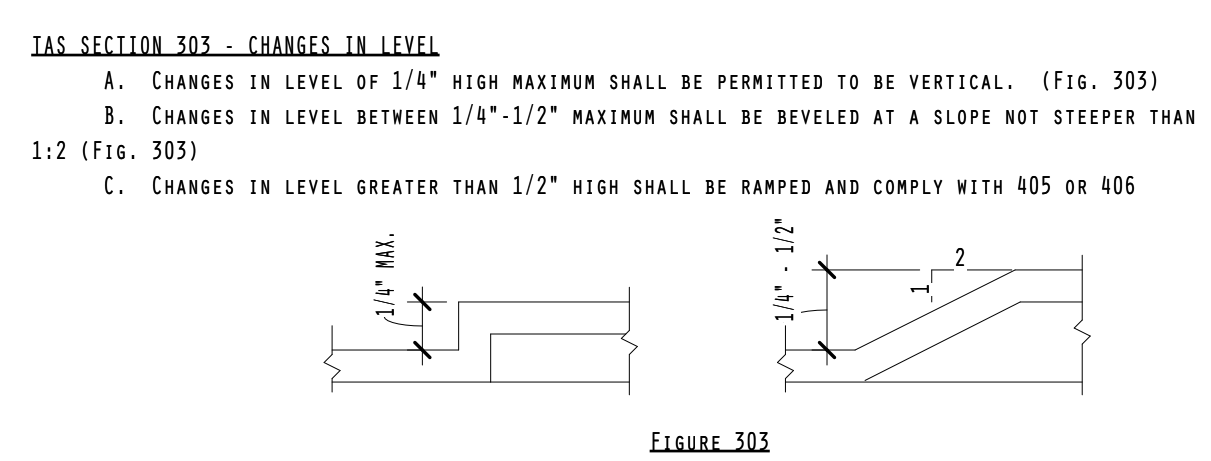
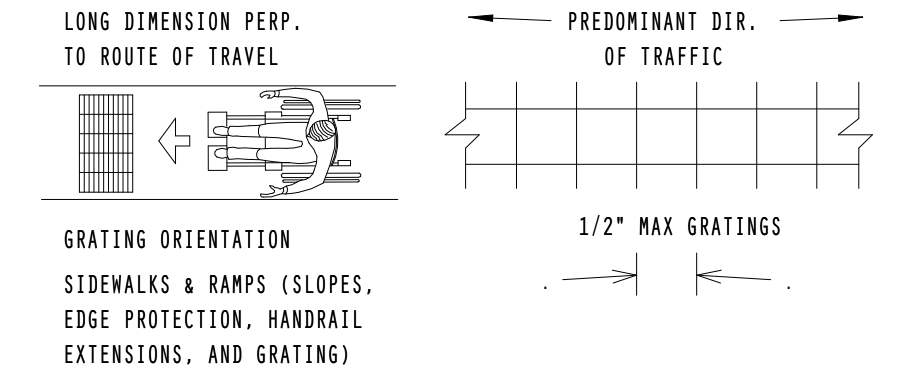
**CHAPTER 3: BUILDING BLOCKS**

**TAS SECTION 302 - FLOOR OR GROUND SURFACES**

A. FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT.

B. CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD, OR BACKING OR NO CUSHION OR PAD. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/UN CUT PILE TEXTURE. PILE HEIGHT SHALL BE 1/2" MAXIMUM. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EDGE.

C. OPENINGS IN FLOOR/ GROUND SURFACES SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1/2" DIAMETER EXCEPT AS ALLOWED IN 407.4.3, 409.4.3, 410.4, 810.5.3, & 810.10. ELEVATED OBJECTS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.



**TAS SECTION 306.3 - KNEE CLEARANCE**

A. SPACE UNDER AN ELEMENT 9"-27" ABOVE THE FINISH FLOOR SHALL BE CONSIDERED KNEE CLEARANCE.

B. KNEE CLEARANCE SHALL EXTEND 25" MAXIMUM UNDER AN ELEMENT AT 9" ABOVE THE FINISH FLOOR.

C. WHERE KNEE CLEARANCE IS REQUIRED UNDER AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE KNEE CLEARANCE SHALL BE 11" DEEP MIN. AT 9" ABOVE THE FINISH FLOOR OR GROUND, AND 8" DEEP MIN. AT 27" ABOVE FINISH FLOOR OR GROUND.

D. BETWEEN 9"-27" ABOVE THE FINISH FLOOR OR GROUND, THE KNEE CLEARANCE SHALL BE PERMITTED TO REDUCE AT A RATE OF 1" IN DEPTH FOR EACH 6" IN HEIGHT.

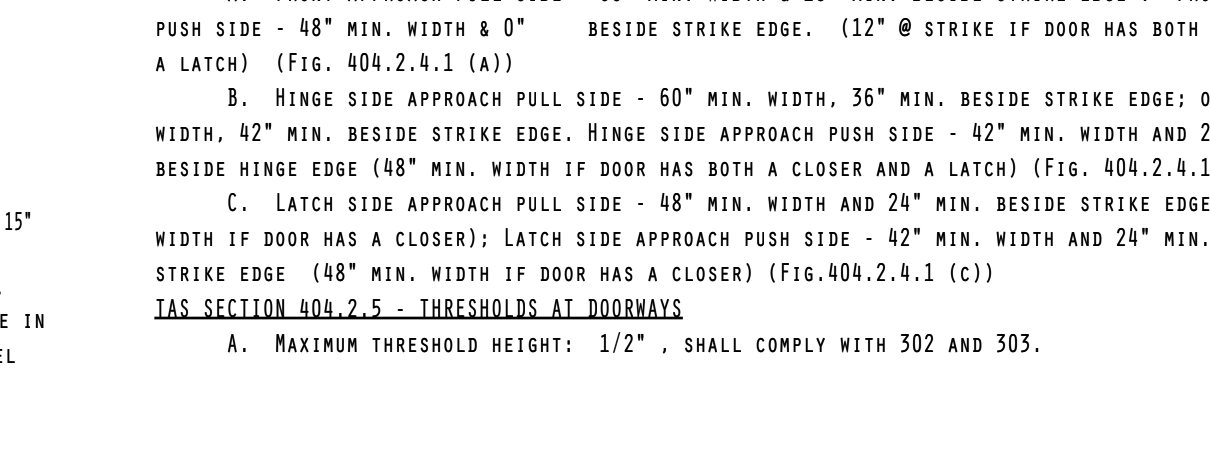
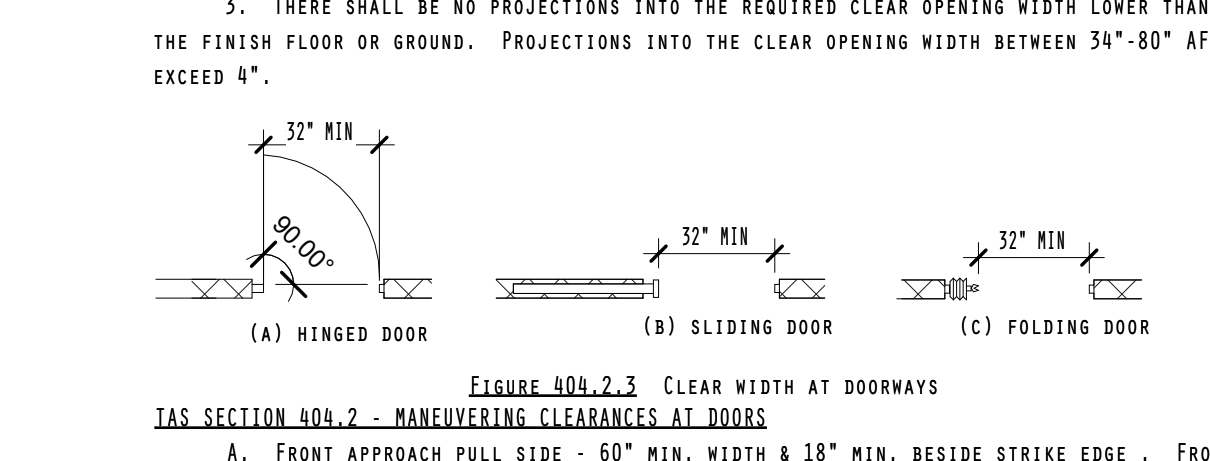
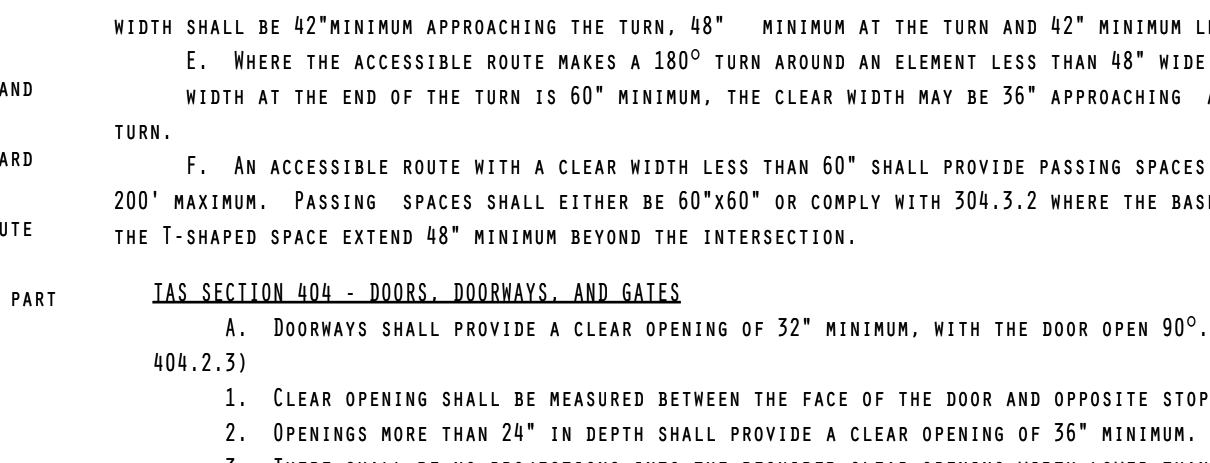
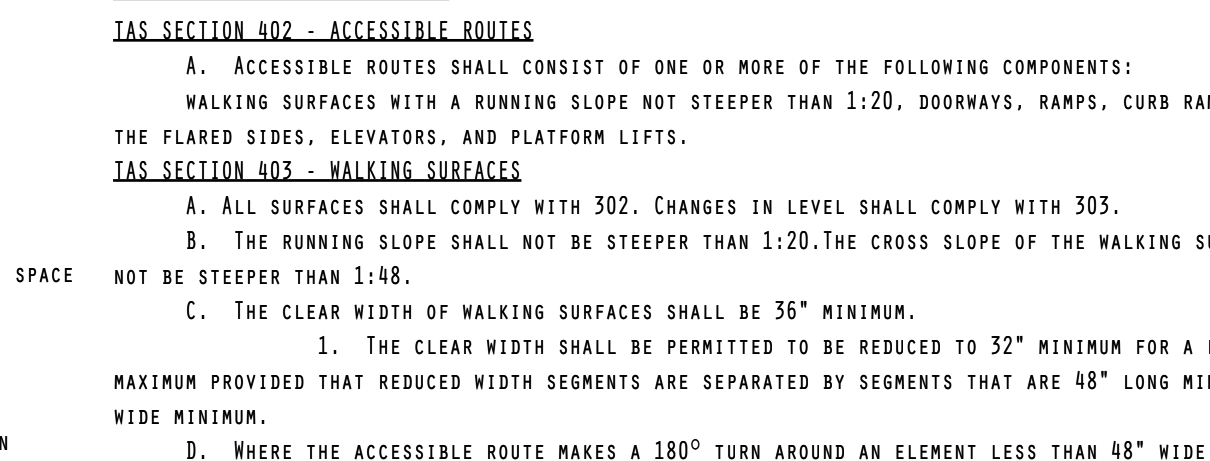
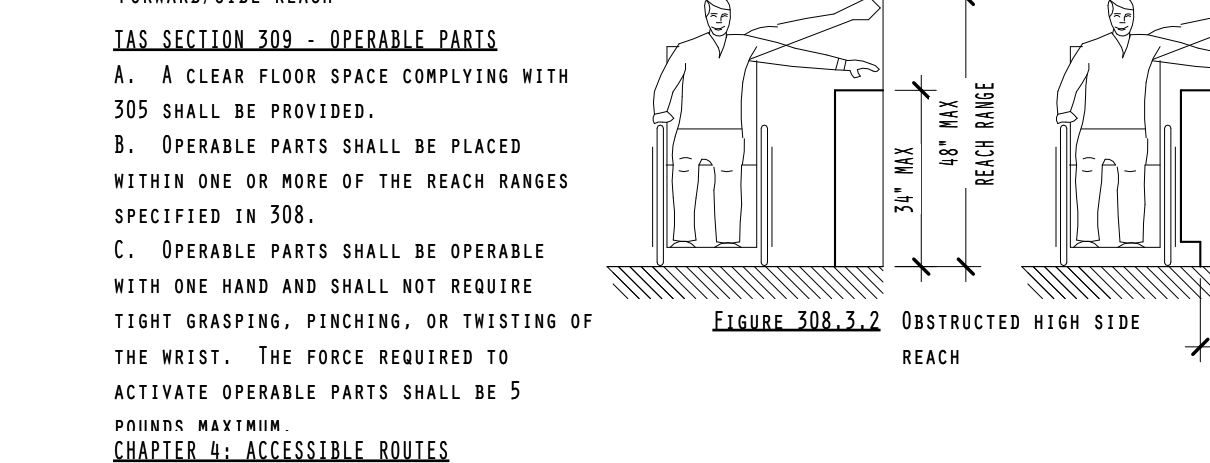
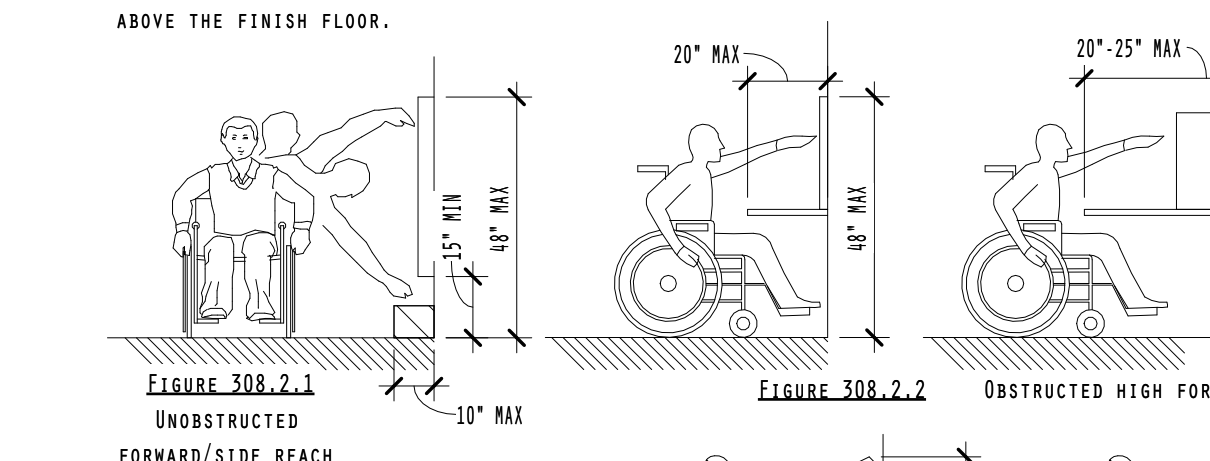
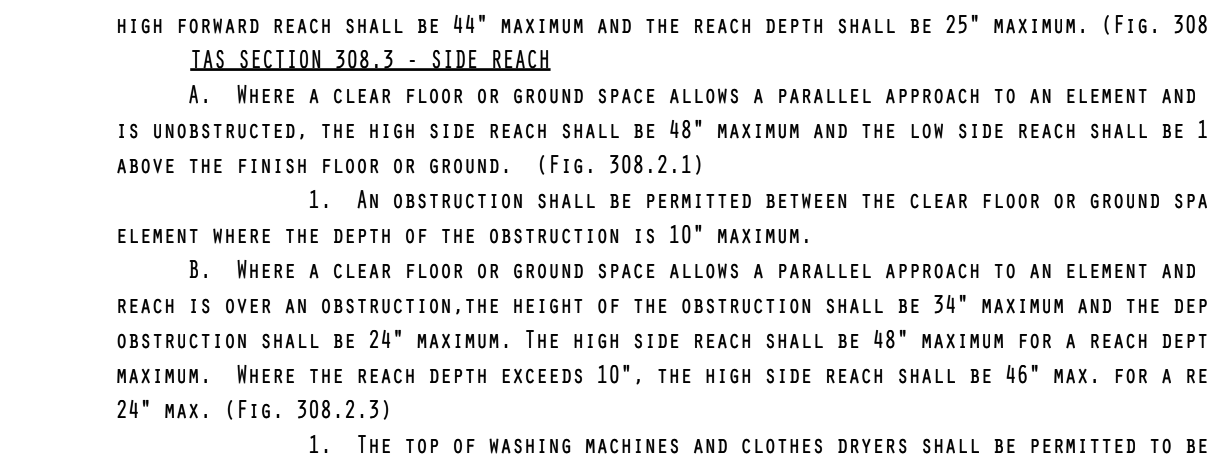
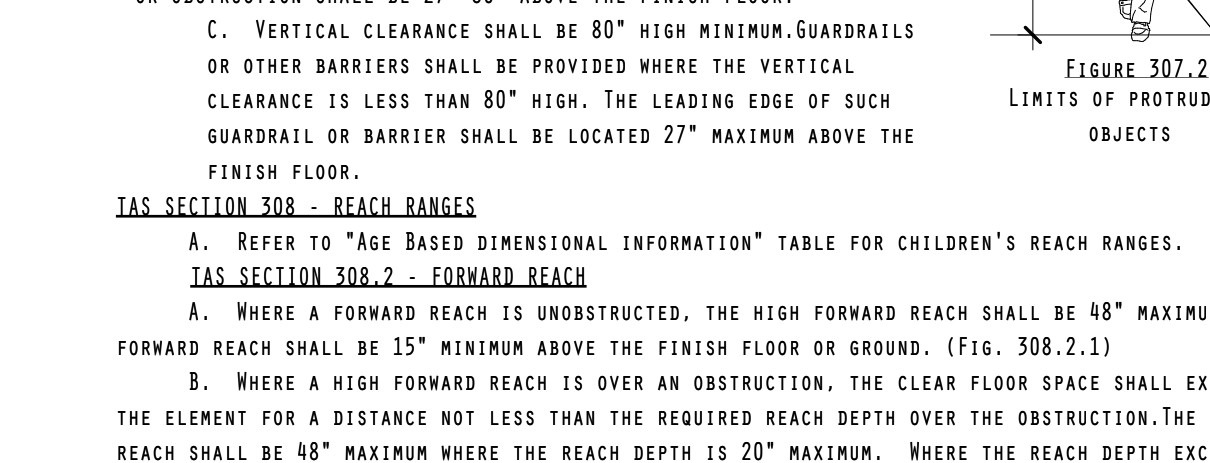
E. KNEE CLEARANCE SHALL BE 30" WIDE MINIMUM.

**TAS SECTION 307 - PROTRUDING OBJECTS**

A. OBJECTS PROJECTING FROM WALLS W/ LEADING EDGES MORE THAN 27" AND NOT MORE THAN 80" ABOVE THE FINISH FLOOR SHALL PROTRUDE NO MORE THAN 4" HORIZONTALLY INTO CIRCULATION PATH.

B. FREE-STANDING OBJECTS MOUNTED ON POSTS OR PYLONS SHALL OVERHANG CIRCULATION PATHS 12" MAX WHEN LOCATED 27"-80" ABOVE THE FINISH FLOOR OR GROUND. WHERE A SIGN OR OTHER OBSTRUCTION IS MOUNTED BETWEEN POSTS OR PYLONS THE CLEAR DISTANCE BETWEEN THE POSTS OR PYLONS IS GREATER THAN 12", THE LOWEST EDGE OF SUCH SIGN OR OBSTRUCTION SHALL BE 27"-80" ABOVE THE FINISH FLOOR.

C. VERTICAL CLEARANCE SHALL BE 80" HIGH MINIMUM. GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE IS LESS THAN 80" HIGH. THE LEADING EDGE OF SUCH GUARDRAIL OR BARRIER SHALL BE LOCATED 27" MAXIMUM ABOVE THE FINISH FLOOR.



**TAS SECTION 404.2.7 - DOOR AND GATE HARDWARE**

A. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PULLS SHALL BE MOUNTED 34"-48" ABOVE FINISHED FLOOR OR GROUND.

**TAS SECTION 404.2.8.1 - DOOR CLOSERS AND GATE CLOSERS**

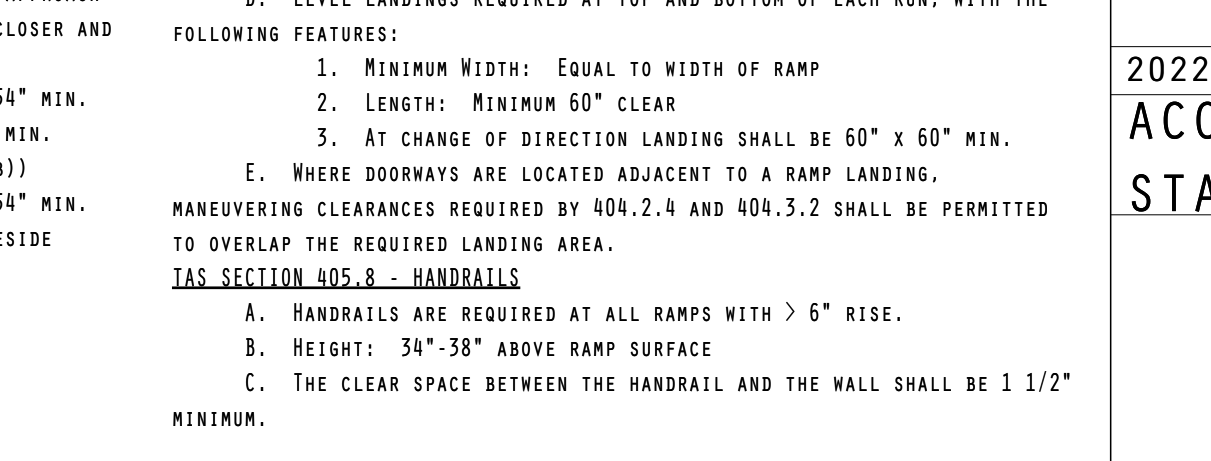
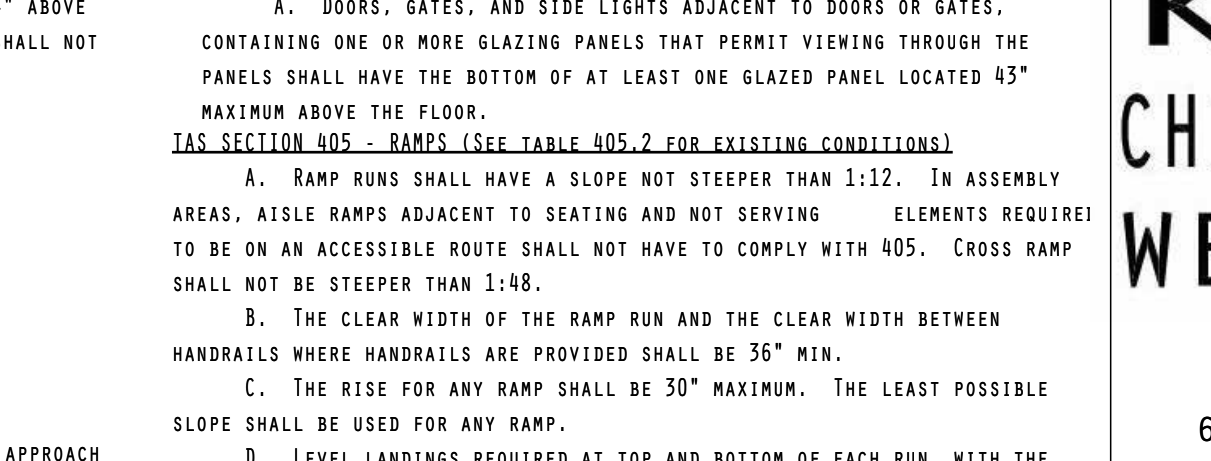
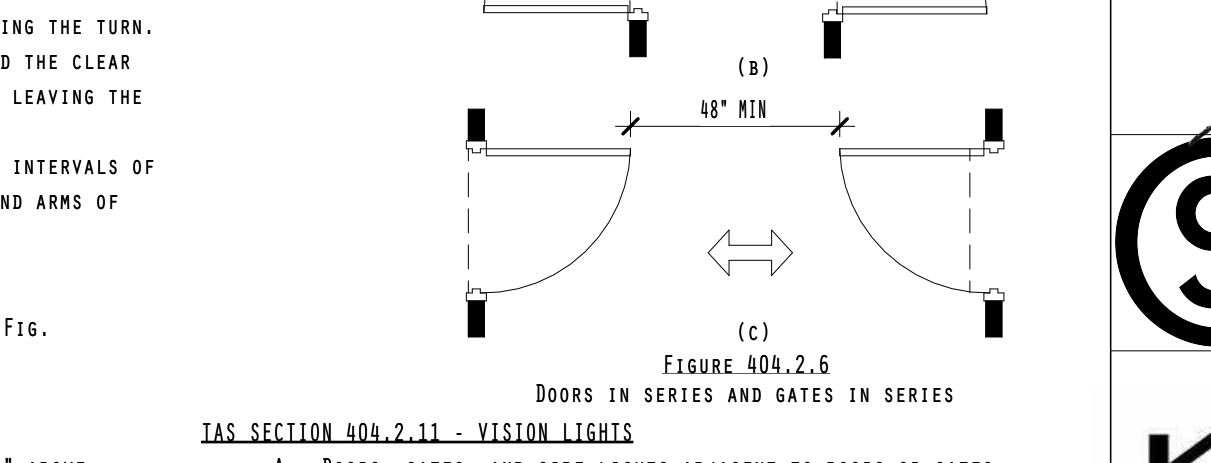
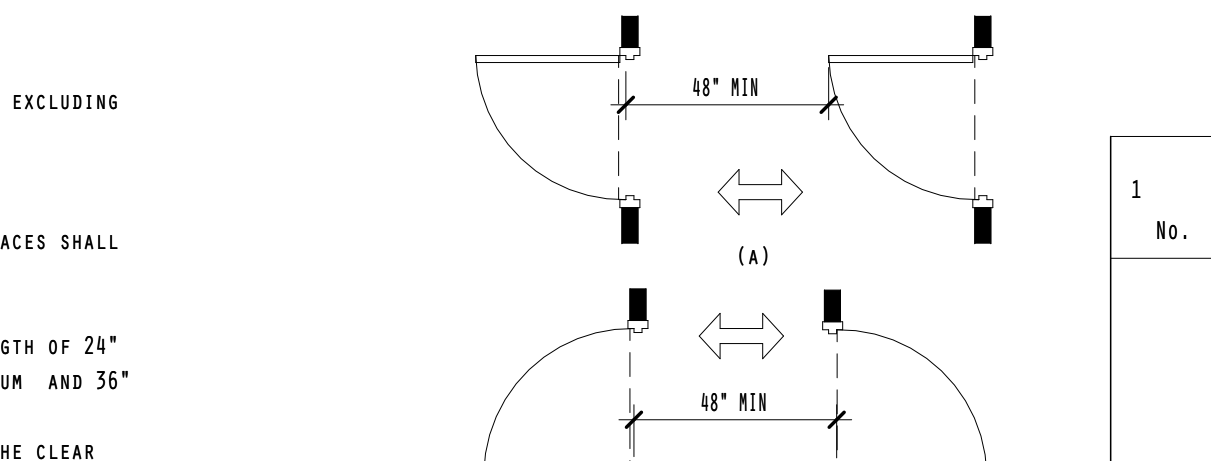
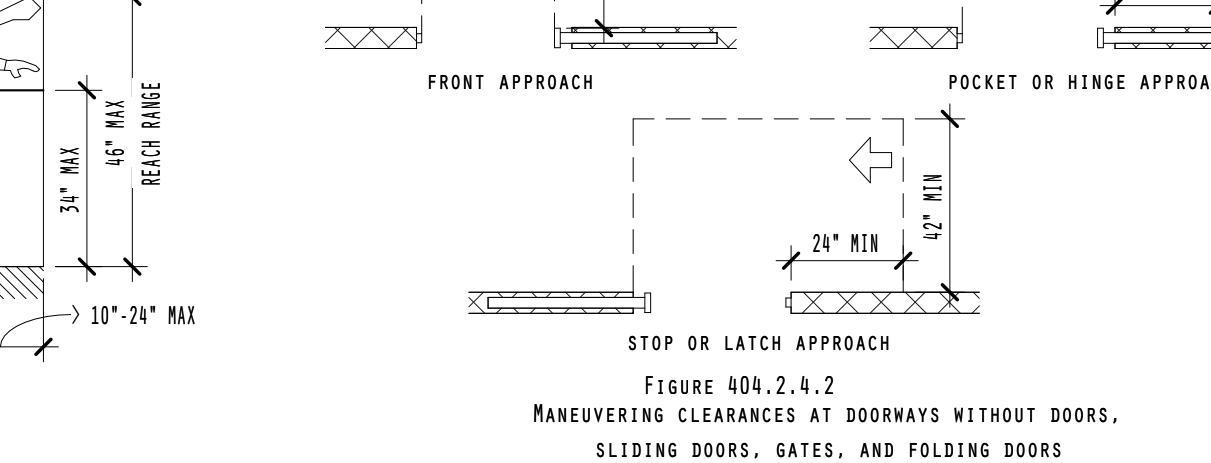
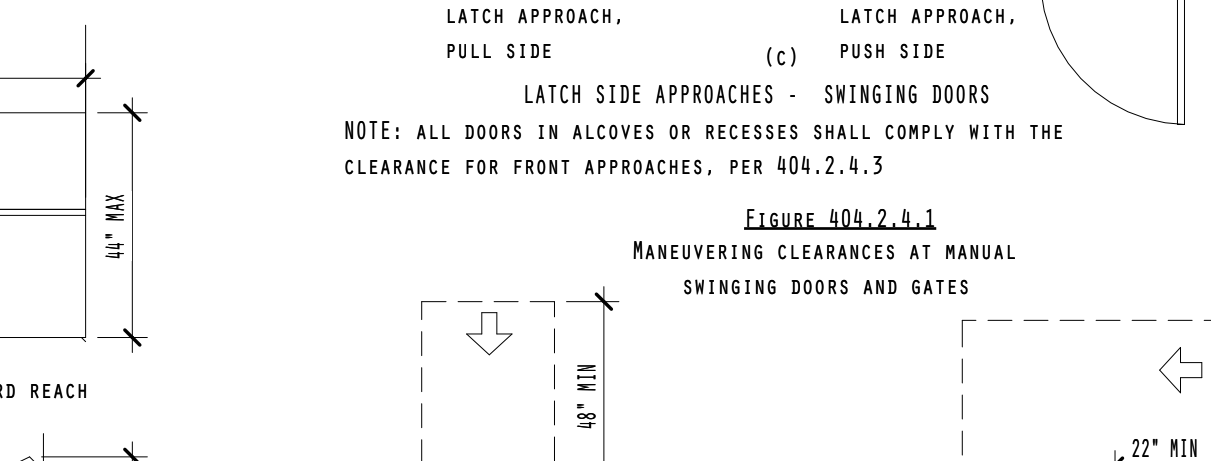
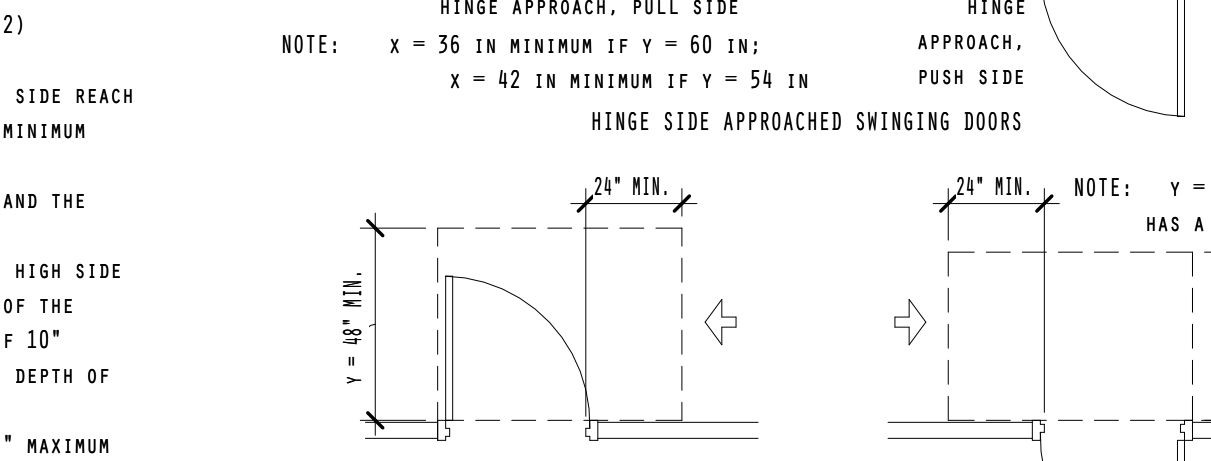
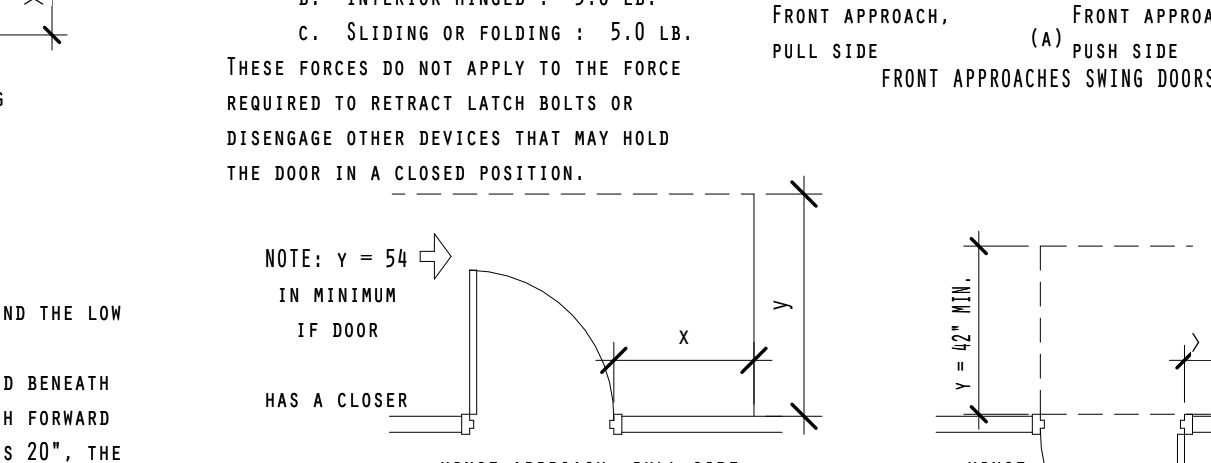
A. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90°, THE DOOR WILL TAKE AT LEAST 5 SECONDS TO MOVE THE DOOR 12° FROM THE LATCH.

**TAS SECTION 404.2.9 - DOOR AND GATE**

A. THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS:

- FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.
- OTHER DOORS
  - EXTERIOR HINGED DOORS: NO REQUIREMENT.
  - INTERIOR HINGED : 5.0 LB.
  - SLIDING OR FOLDING : 5.0 LB.

THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT MAY HOLD THE DOOR IN A CLOSED POSITION.

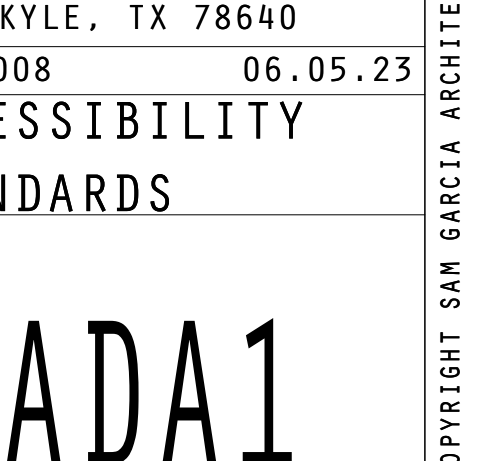
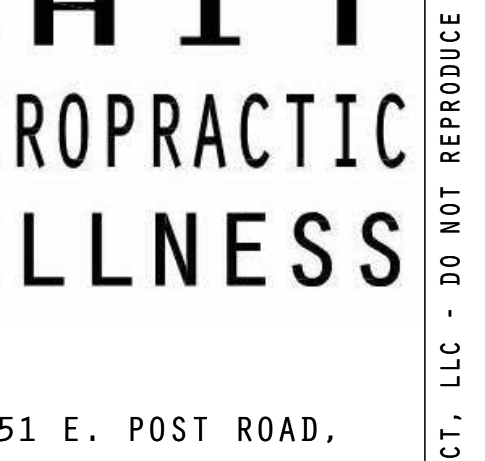
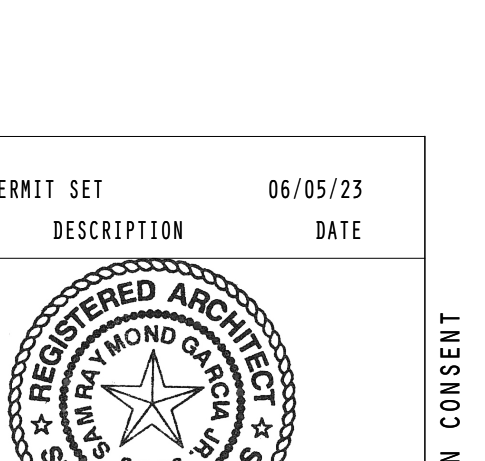
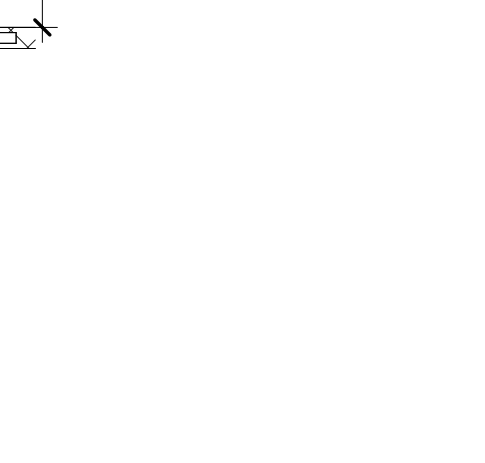
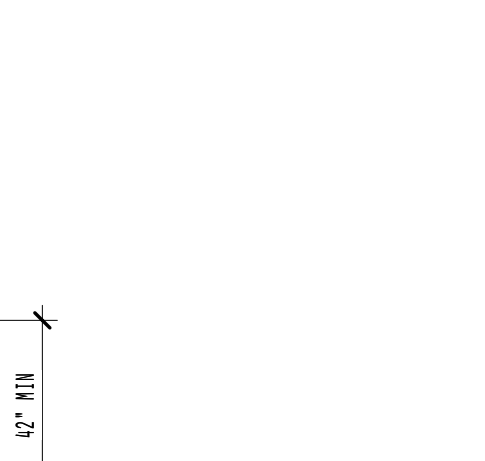
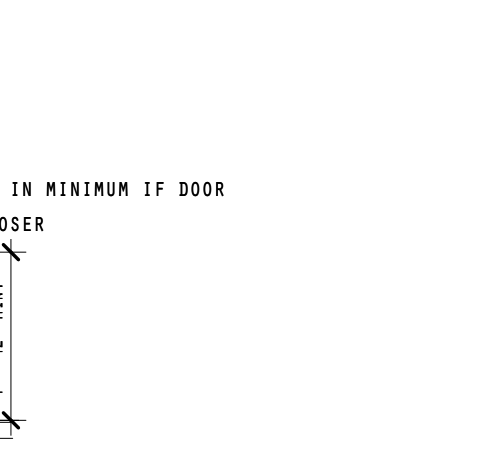
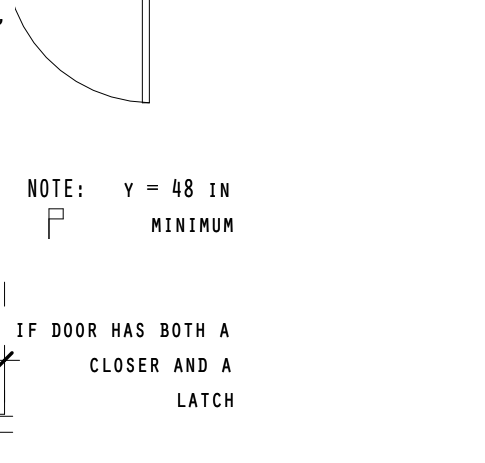


**TAS SECTION 404.2.9 - DOOR AND GATE**

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  - EXTERIOR HINGED DOORS: NO REQUIREMENT.
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THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT MAY HOLD THE DOOR IN A CLOSED POSITION.



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1. PERMIT SET 06/05/23

No. DESCRIPTION DATE

**REGISTERED ARCHITECT**  
STATE OF TEXAS  
06.05.23

**SAN GARCIA ARCHITECT**  
1200 AUBURN AVE., SUITE 280  
MCALLEN, TX 78504  
(956) 631-8327  
INFO@SANGARCIAARCHITECT.COM

**KHIT CHIROPRACTIC WELLNESS**

6151 E. POST ROAD, KYLE, TX 78640

2022-008 06.05.23

**ACCESSIBILITY STANDARDS**

**ADA 1**

1. MINIMUM WIDTH: EQUAL TO WIDTH OF RAMP  
2. LENGTH: MINIMUM 60" CLEAR  
3. AT CHANGE OF DIRECTION TURNING SHALL BE 60" x 60" MIN.  
E. WHERE DOORWAYS ARE LOCATED ADJACENT TO A RAMP LANDING, MANEUVERING CLEARANCES BY 404.2.4 AND 404.3.2 SHALL BE PERMITTED TO OVERLAP THE REQUIRED LANDING AREA.

**TAS SECTION 405.8 - HANDRAILS**

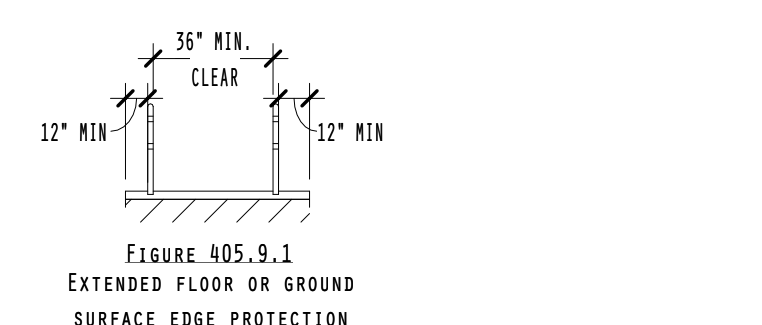
- HANDRAILS ARE REQUIRED AT ALL RAMPS WITH > 6" RISE.
- HEIGHT: 34"-38" ABOVE RAMP SURFACE
- THE CLEAR SPACE BETWEEN THE HANDRAIL AND THE WALL SHALL BE 1 1/2" MINIMUM.



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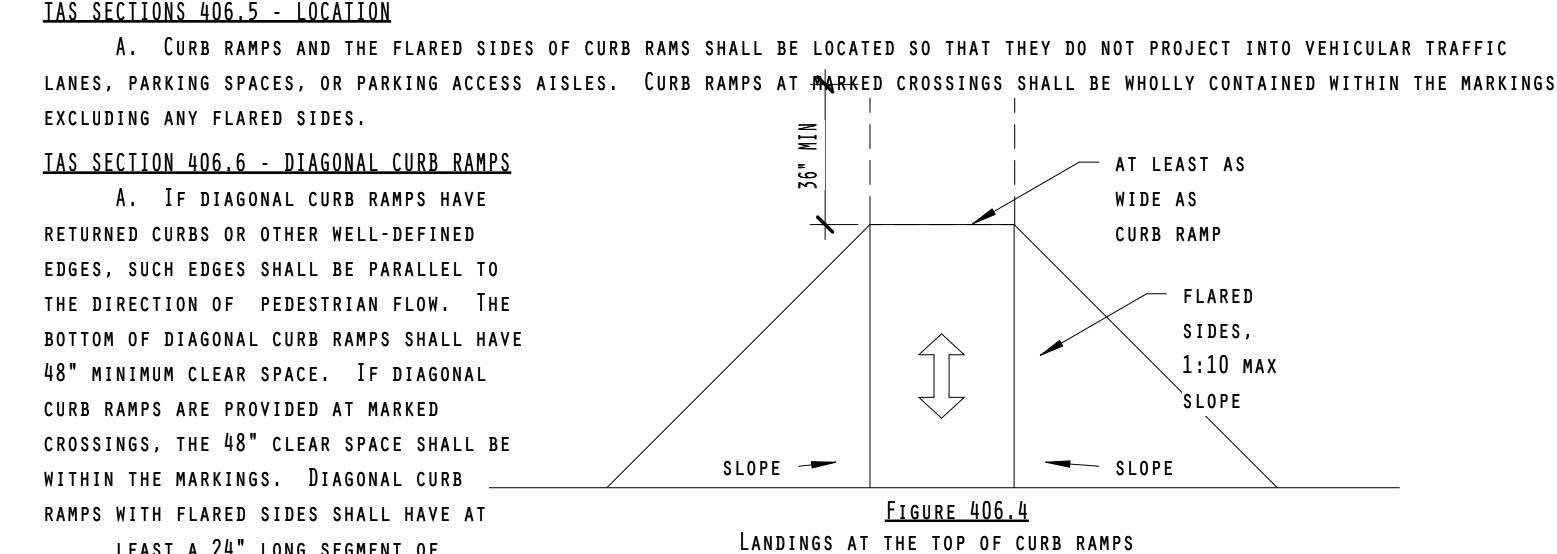
SLOPE	MAXIMUM RISE
STEEPER THAN 1:10, BUT NOT STEEPER THAN 1:8	3"
STEEPER THAN 1:12, BUT NOT STEEPER THAN 1:10	6"

CROSS SLOPE SHALL NOT EXCEED 1:48

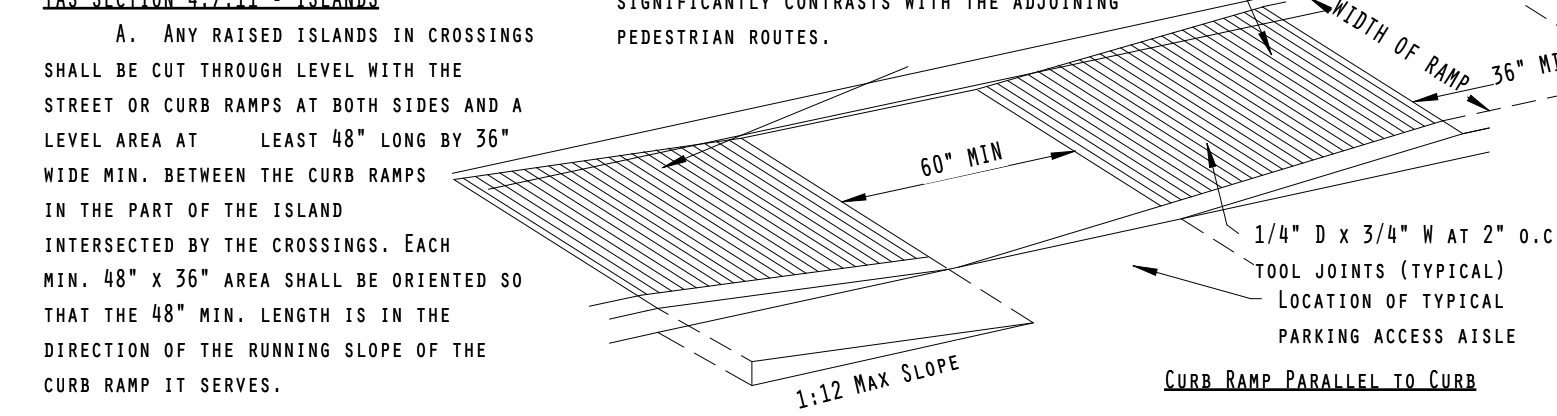


**TAS SECTION 405.9 - CURB RAMPS**  
 A. Curb ramps shall comply with 405.2 - 405.5, 405.10  
 B. Maximum slopes of adjoining gutters, road surface immediately adjacent to the curb ramp, or accessible route shall not exceed 1:20.

**TAS SECTION 406.9 - LANDINGS**  
 A. Landings shall be provided at the tops of curb ramps. The landing clear length shall be 36" minimum. The landing clear width shall be at least as wide as the curb ramp, excluding flared sides, leading to the landing. (Fig. 406.4)  
**TAS SECTIONS 406.5 - LOCATION**  
 A. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.



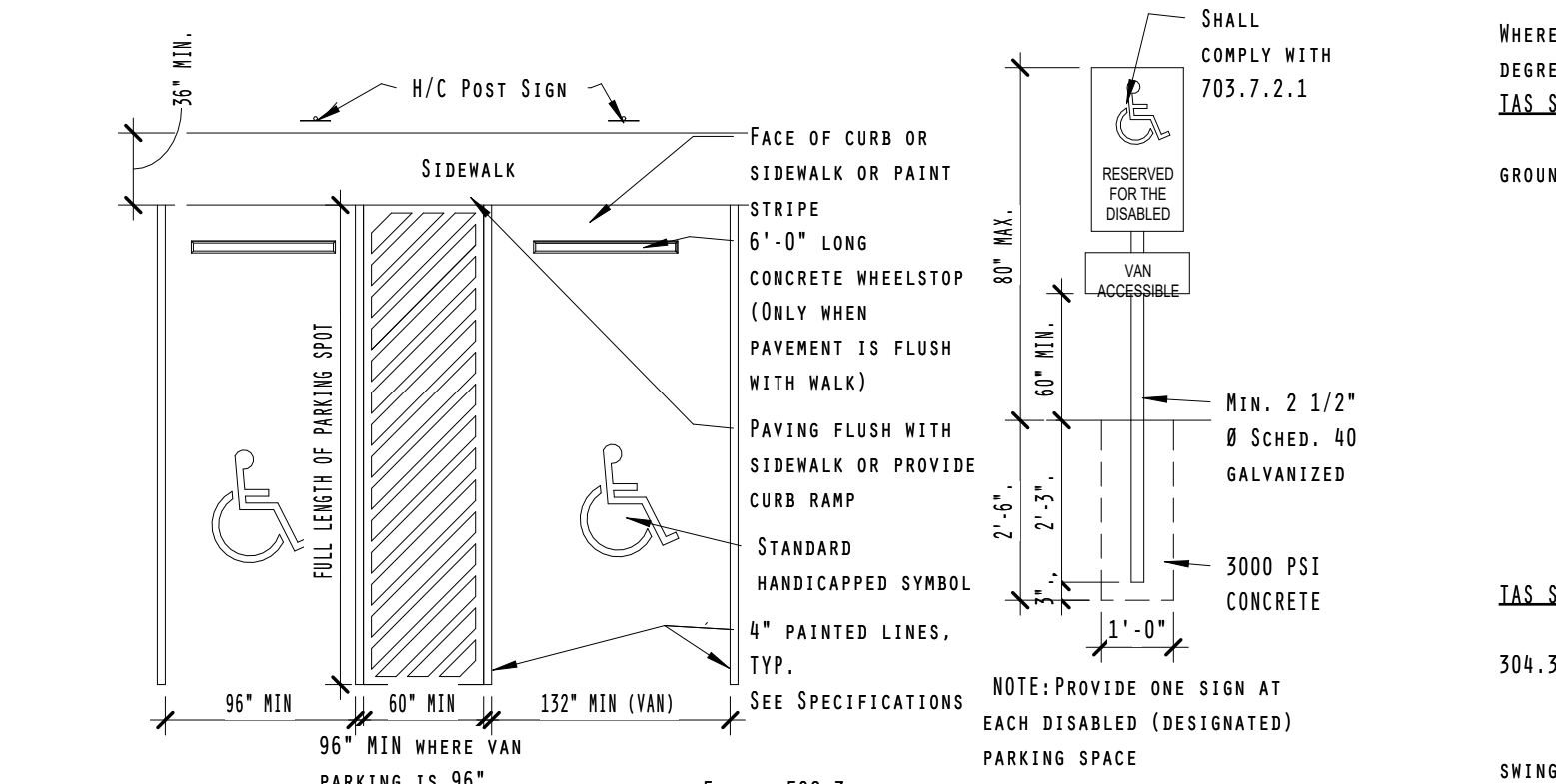
**TAS SECTION 406.6 - DIAGONAL CURB RAMPS**  
 A. If diagonal curb ramps have returned curbs or other well-defined edges, such edges shall be parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have 48" minimum clear space. If diagonal curb ramps are provided at marked crossings, the 48" clear space shall be within the markings. Diagonal curb ramps with flared sides shall have at least a 24" long segment of straight curb located on each side of the curb ramp and within the marked crossing.



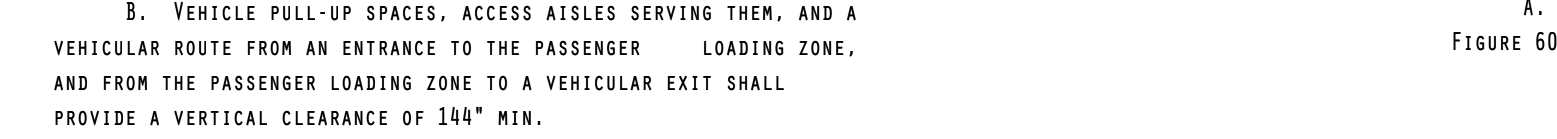
**TAS SECTION 406.7 - ISLANDS**  
 A. Any raised islands in crossings shall be cut through level with the street or curb ramps at both sides and a level area at least 48" long by 36" wide min. between the curb ramps in the part of the island intersected by the crossings. Each min. 48" x 36" area shall be oriented so that the 48" min. length is in the direction of the running slope of the curb ramp it serves.

**TAS SECTION 405.9 - EDGE PROTECTION**  
 A. Ramps and landings with drop offs in excess of 1/2" shall have curbs, walls, railings, or projecting surfaces that prevent slipping off the ramp.  
 B. A curb or barrier shall be provided that prevents the passage of a 4" diameter sphere, where any portion of the sphere is within 4" of the finish floor or ground surface.  
 C. The extended floor or ground surface of the ramp run or landing shall extend 12" minimum beyond the inside face of a handrail complying with 505. (See Figure 405.9.1)

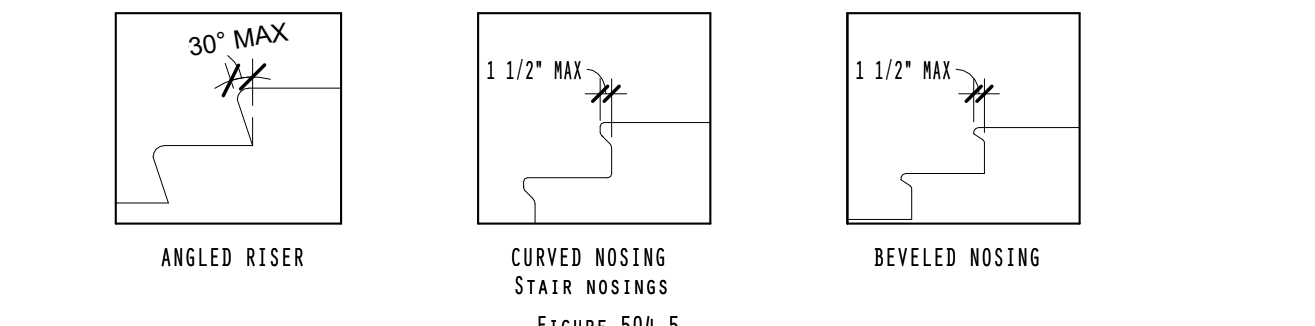
**CHAPTER 5: GENERAL SITE AND BUILDING ELEMENTS**  
**TAS SECTION 502.3 - PARKING SPACES (REFERENCE FIGURE 502.3)**  
 A. Accessible car parking spaces shall be at least 96" minimum wide and van accessible parking shall be 132" minimum wide.  
 1. Van parking spaces may be 96" wide minimum where there is an access aisle 96" wide minimum.  
 2. Access aisles serving car and van parking shall be a minimum 60" wide and shall adjoin an accessible route.  
 3. Access aisles should be marked to discourage people from parking in them and extend the full length of the parking space.  
 B. Surface slope shall not exceed 1:48 in all directions (NOTE: no built up curb ramp may be located in an accessible parking access aisle).  
 C. Access aisles shall not overlap the vehicular way.  
 D. Access aisles shall be permitted to be placed on either side of the parking space except for angled van parking spaces, which shall have access aisles located on the passenger side of the parking space.



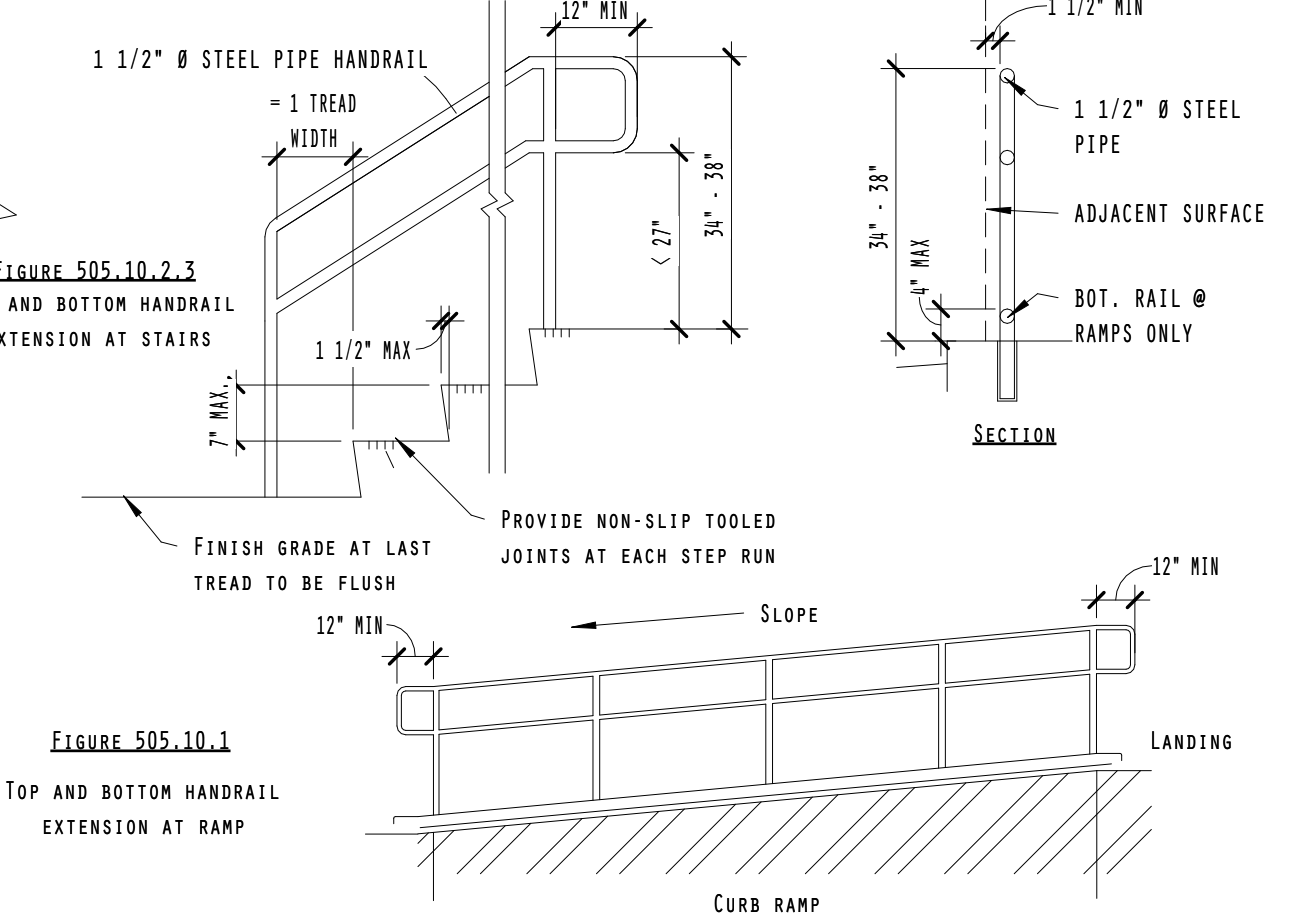
**TAS SECTION 503 - PASSENGER LOADING ZONES**  
 A. Passenger loading zones shall provide a vehicular pull-up space 96" wide minimum and 20' long minimum.  
**TAS SECTION 503.3 - ACCESS AISLE (REFERENCE FIGURE 503.3)**  
 A. Passenger loading zones shall provide access aisles complying with 503 adjacent to the vehicle pull up space. Access aisles shall adjoin an accessible route and shall not overlap the vehicular way.  
 1. Access aisles serving vehicular pull-up spaces shall be 60" wide minimum and extend the full length of the vehicle pull-up spaces they serve  
 2. Slopes steeper than 1:48 are not permitted. Level of the floor & ground surface are not permitted.  
 B. Vehicle pull-up spaces, access aisles serving them, and a vehicular route from an entrance to the passenger loading zone, and from the passenger loading zone to a vehicular exit shall provide a vertical clearance of 144" min.



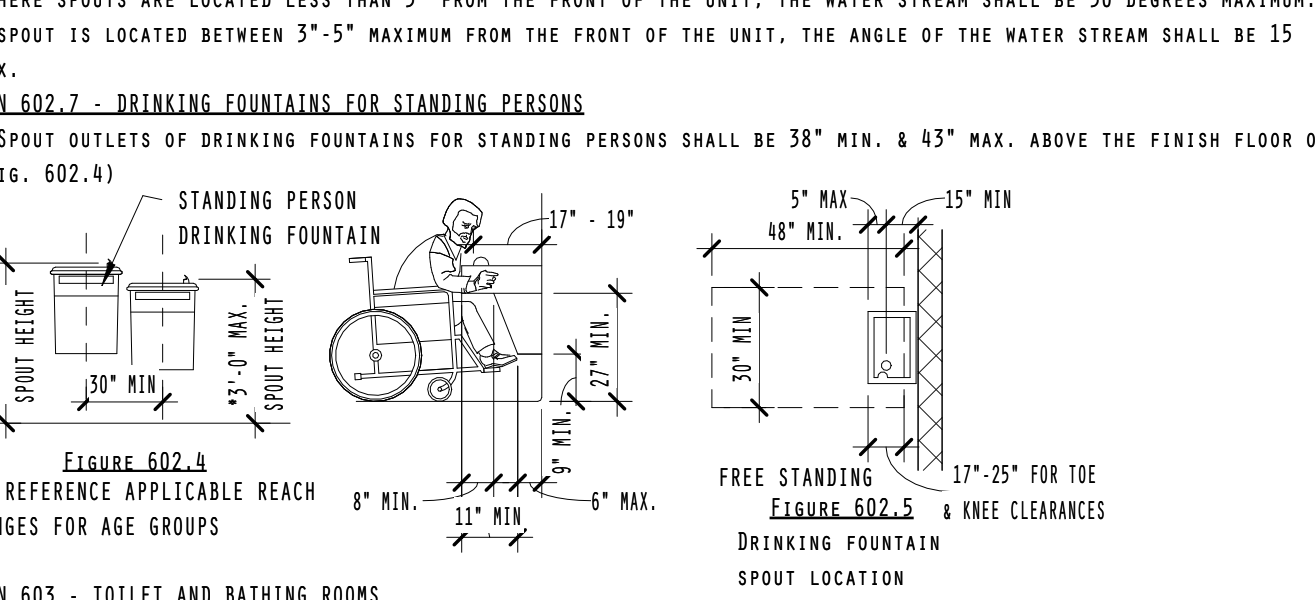
**TAS SECTION 504 - STAIRWAYS**  
**TAS SECTIONS 504.2 - TREADS AND RISERS**  
 A. All steps on a flight of stairs shall have uniform riser heights and tread widths  
 1. Minimum tread depth shall be 11", measured from riser to riser (not including nosing)  
 2. Open risers are not permitted  
 3. Risers shall be 4" high min. - 7" high max.  
**TAS SECTIONS 504.5 - NOSINGS (REFERENCE FIGURE 504.5)**  
 A. Radius of the curvature at the leading edge shall be 1/2" maximum. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall extend 1 1/2" maximum over the tread below.



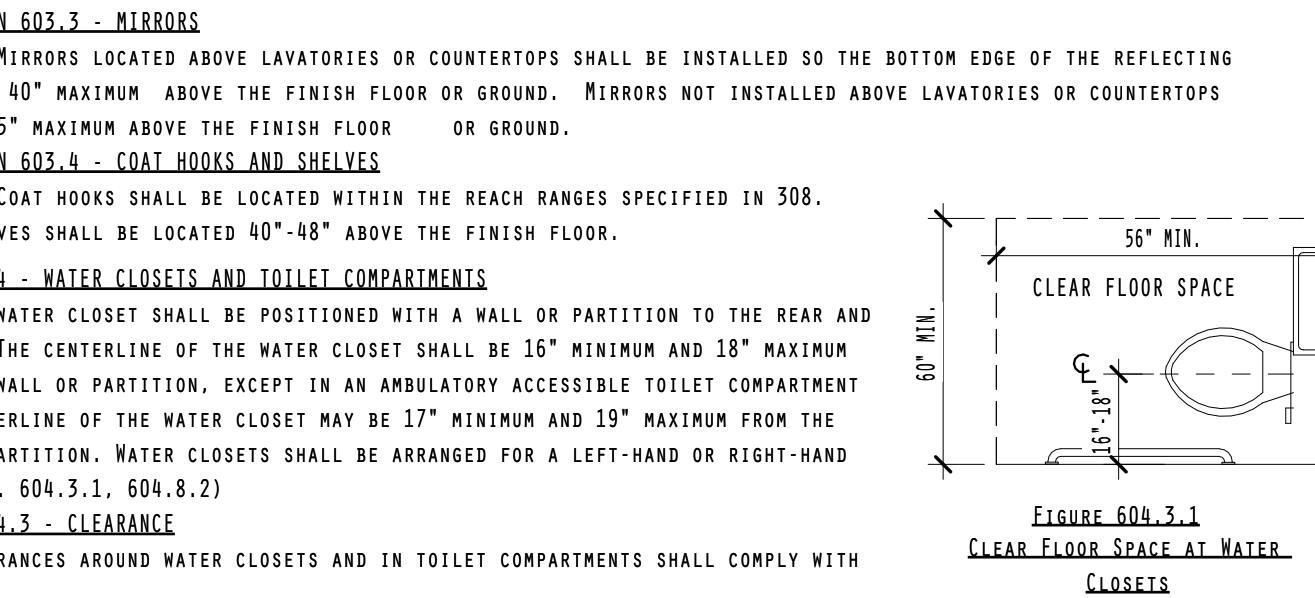
**TAS SECTION 505 - HANDRAILS (REFERENCE FIGURES 505.10.1, 505.10.2, 51)**  
 A. Handrails shall be provided on both sides of stairs and ramps. Non-continuous stair handrails shall extend 12" beyond the top riser and the width of one tread beyond the bottom riser. At the top, the extension shall be parallel to the floor. At the bottom, the handrail shall continue to slope for a distance of one tread width. Non continuous ramp handrails shall extend 12" minimum beyond the top & bottom of ramp runs.  
 B. Height: 34" - 38", measured from the stair nosing.  
 C. Clearance between handrail and adjacent surfaces shall be 1 1/2" minimum.  
 D. Handrails shall not rotate within their fittings.  
 E. Handrails are required on ramp runs greater than 6" in rise.



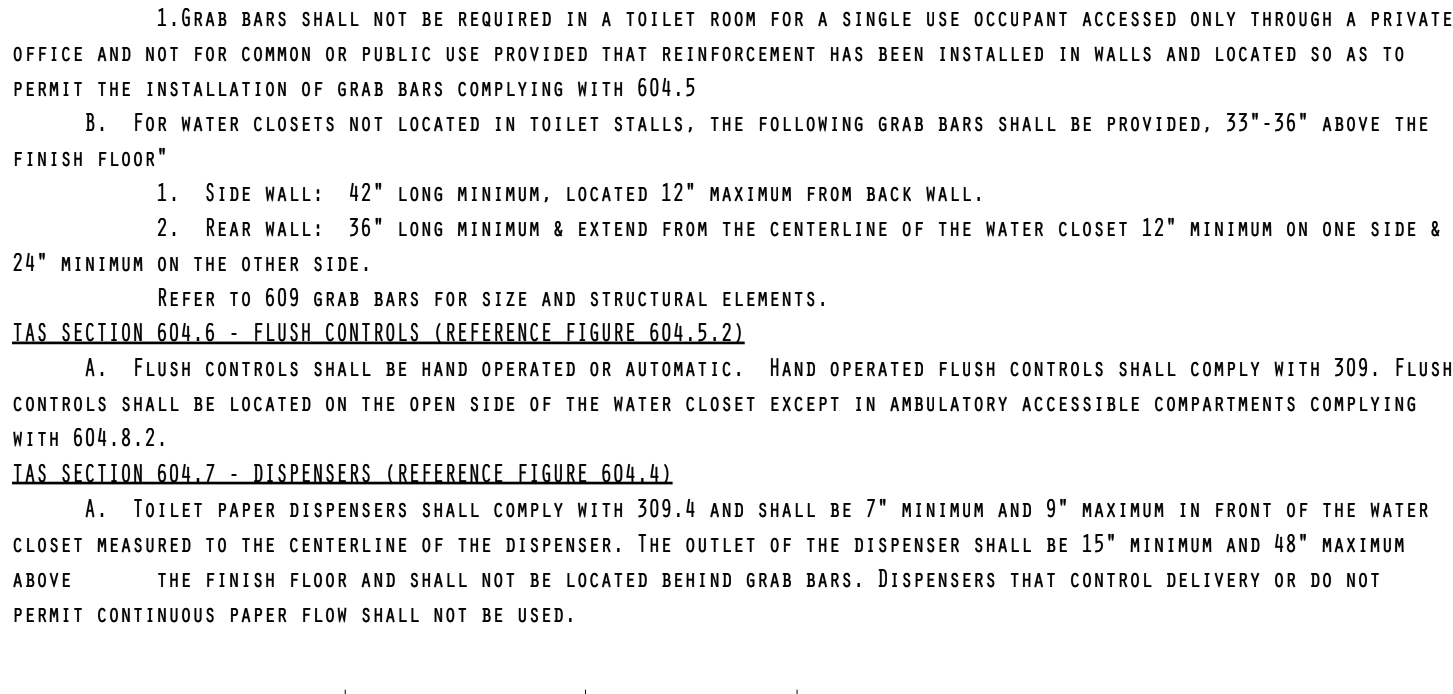
**CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES**  
**TAS SECTION 602 - DRINKING FOUNTAINS**  
 A. Drinking fountains shall comply with 307 (protruding objects) and 602.  
 B. Units shall have a clear floor or ground space complying with 305 positioned for a forward approach and centered on the unit. Knee and toe clearances must comply with 305. Operable parts shall comply with 309. (Fig. 602.5)  
**TAS SECTION 602.4 - SPOUT HEIGHT (REFERENCE FIGURE 602.4 FOR ACCESSIBLE UNIT)**  
 A. Accessible spouts shall be a maximum 36" above the finish floor or ground.  
**TAS SECTION 602.5 - SPOUT LOCATION (REFERENCE FIGURE 602.5)**  
 A. The spout shall be located 15" min. from the vertical support and 5" max. from the front edge of the unit, including bumpers.  
 B. The spout shall provide a flow of water at least 4" high and shall be located 5" maximum from the front of the unit.  
 C. Where spouts are located less than 3" from the front of the unit, the water stream shall be 30 degrees maximum. Where the spout is located between 3"-5" maximum from the front of the unit, the angle of the water stream shall be 15 degrees max.  
**TAS SECTION 602.7 - DRINKING FOUNTAINS FOR STANDING PERSONS**  
 A. Spout outlets of drinking fountains for standing persons shall be 38" min. & 43" max. above the finish floor or ground. (Fig. 602.4)



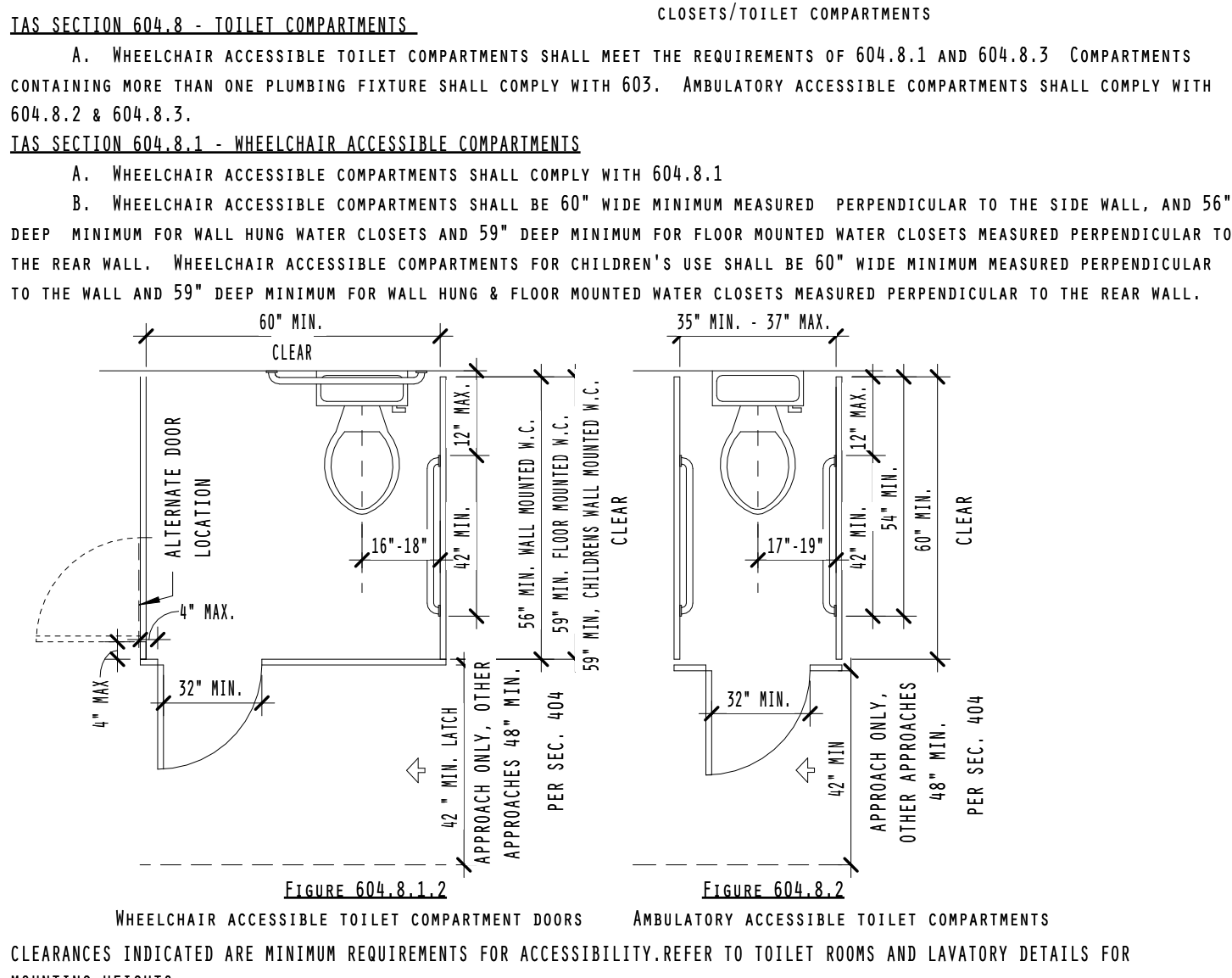
**TAS SECTION 603 - TOILET AND BATHING ROOMS**  
 A. Turning space complying with 304 shall be provided within the room. (60" diameter or T-shaped space per 304.3.2)  
 B. Required clear floor spaces, clearance at fixtures, and turning space shall be permitted to overlap.  
 C. Door swings shall not swing into the clear floor space or clearance required for any fixture. Doors can swing into the required turning space.  
**TAS SECTION 603.3 - MIRRORS**  
 A. Mirrors located above lavatories or countertops shall be installed so the bottom edge of the reflecting surface is 40" maximum above the finish floor or ground. Mirrors not installed above lavatories or countertops shall be 35" maximum above the finish floor or ground.  
**TAS SECTION 603.4 - COAT HOOKS AND SHELVES**  
 A. Coat hooks shall be located within the reach ranges specified in 308. Shelves shall be located 40"-48" above the finish floor.  
**TAS SECTION 604 - WATER CLOSETS AND TOILET COMPARTMENTS**  
 A. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16" minimum and 18" maximum from the side wall or partition, except in an ambulatory accessible toilet compartment where the centerline of the water closet may be 17" minimum and 19" maximum from the side wall or partition. Water closets shall be arranged for a left-hand or right-hand approach. (Fig. 604.3.1, 604.8.2)  
**TAS SECTION 604.3 - CLEARANCE**  
 A. Clearances around water closets and in toilet compartments shall comply with Figure 604.3.1



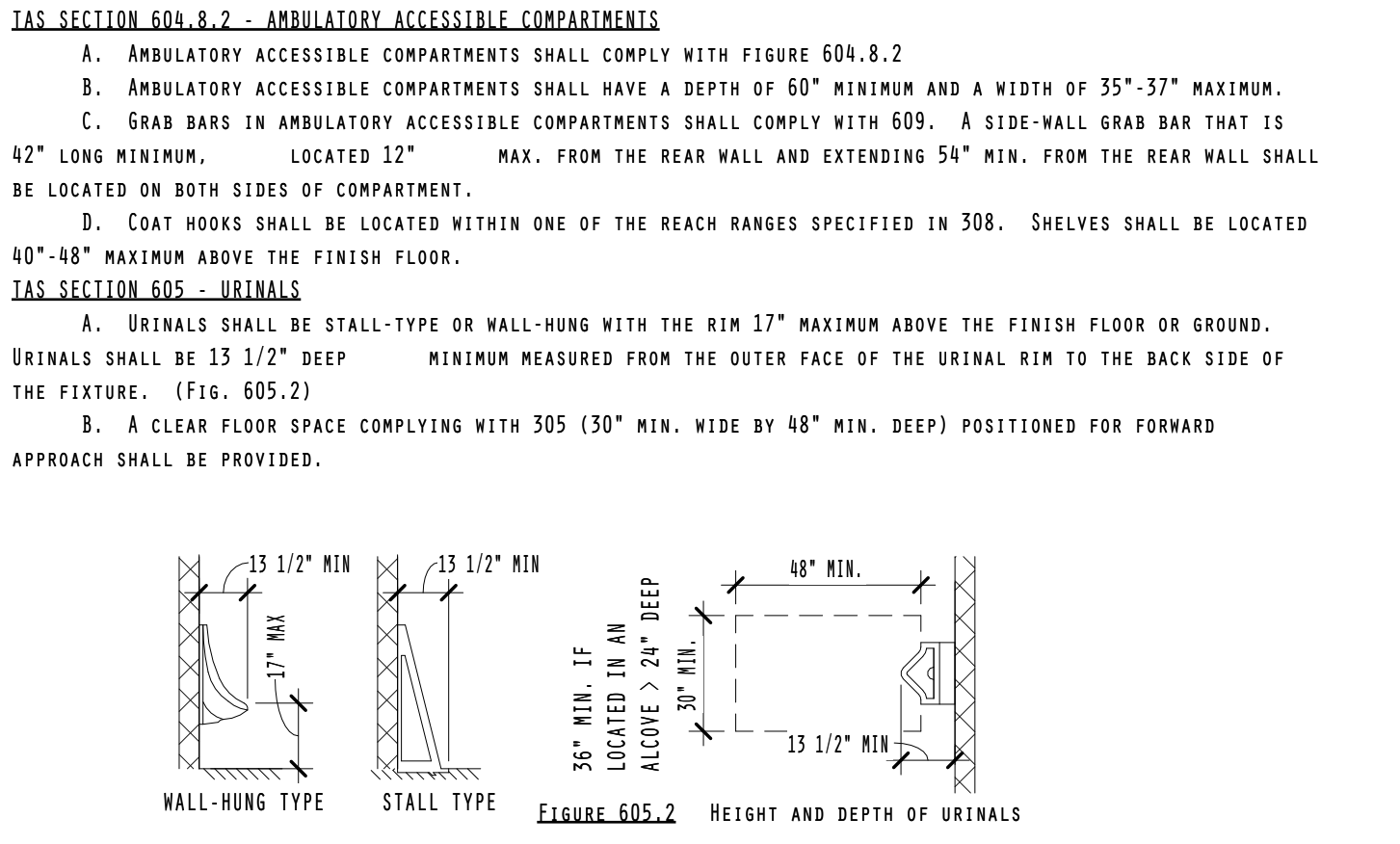
**TAS SECTION 604.3.2 - OVERLAP**  
 A. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary paper disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.  
**TAS SECTION 604.4 - SEATS (REFERENCE FIGURE 604.4)**  
 A. The seat height of a water closet above finish floor shall be 17"-19" maximum measured to the top of seat.  
 1. Seats shall not be sprung to return to a lifted position  
**TAS SECTION 604.5 - GRAB BARS (REFERENCE FIGURES 604.4, 604.5.2)**  
 A. Grab bars shall comply with 609 and be provided on the side wall closest to the water closet and on the rear wall.  
 1. Grab bars shall not be required in a toilet room for a single use occupant accessed only through a private office and not for common or public use provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5  
 B. For water closets not located in toilet stalls, the following grab bars shall be provided, 33"-36" above the finish floor\*  
 1. Side wall: 42" long minimum, located 12" maximum from back wall.  
 2. Rear wall: 36" long minimum & extend from the centerline of the water closet 12" minimum on one side & 24" minimum on the other side.  
 Refer to 609 grab bars for size and structural elements.  
**TAS SECTION 604.6 - FLUSH CONTROLS (REFERENCE FIGURE 604.5.2)**  
 A. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.  
**TAS SECTION 604.7 - DISPENSERS (REFERENCE FIGURE 604.4)**  
 A. Toilet paper dispensers shall comply with 309.4 and shall be 7" minimum and 9" maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15" minimum and 48" maximum above the finish floor and shall not be located behind grab bars. Dispensers that control delivery or do not permit continuous paper flow shall not be used.



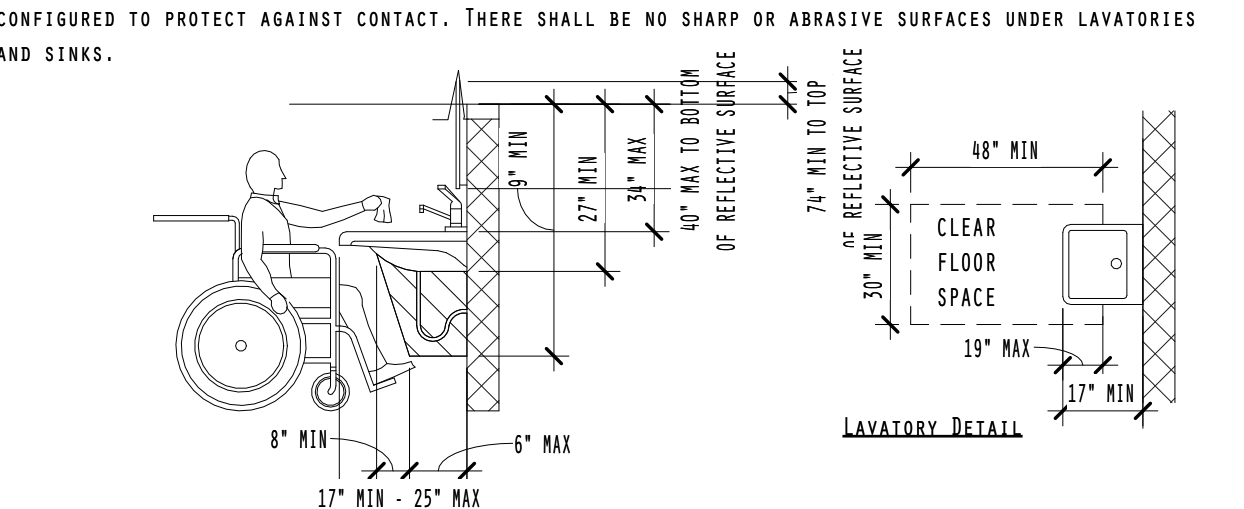
**TAS SECTION 604.8 - TOILET COMPARTMENTS**  
 A. Wheelchair accessible toilet compartments shall meet the requirements of 604.8.1 and 604.8.3. Compartments containing more than one plumbing fixture shall comply with 603. Ambulatory accessible compartments shall comply with 604.8.2 & 604.8.3.  
**TAS SECTION 604.8.1 - WHEELCHAIR ACCESSIBLE COMPARTMENTS**  
 A. Wheelchair accessible compartments shall comply with 604.8.1  
 B. Wheelchair accessible compartments shall be 60" wide minimum measured perpendicular to the side wall, and 56" deep minimum for wall hung water closets and 59" deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60" wide minimum measured perpendicular to the wall and 59" deep minimum for wall hung & floor mounted water closets measured perpendicular to the rear wall.  
**TAS SECTION 604.8.2 - WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOORS**  
 A. Wheelchair accessible toilet compartment doors shall be 32" minimum clear width. The door shall be 4" maximum from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.  
**TAS SECTION 604.8.3 - AMBULATORY ACCESSIBLE COMPARTMENTS**  
 A. Ambulatory accessible compartments shall comply with Figure 604.8.2  
 B. Ambulatory accessible compartments shall have a depth of 60" minimum and a width of 35"-37" maximum.  
 C. Grab bars in ambulatory accessible compartments shall comply with 609. A side-wall grab bar that is 42" long minimum, located 12" max. from the rear wall and extending 54" min. from the rear wall shall be located on both sides of compartment.  
 D. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40"-48" maximum above the finish floor.  
**TAS SECTION 605 - URINALS**  
 A. Urinals shall be stall-type or wall-hung with the rim 17" maximum above the finish floor or ground. Urinals shall be 13 1/2" deep minimum measured from the outer face of the urinal rim to the back side of the fixture. (Fig. 605.2)  
 B. A clear floor space complying with 305 (30" min. wide by 48" min. deep) positioned for forward approach shall be provided.



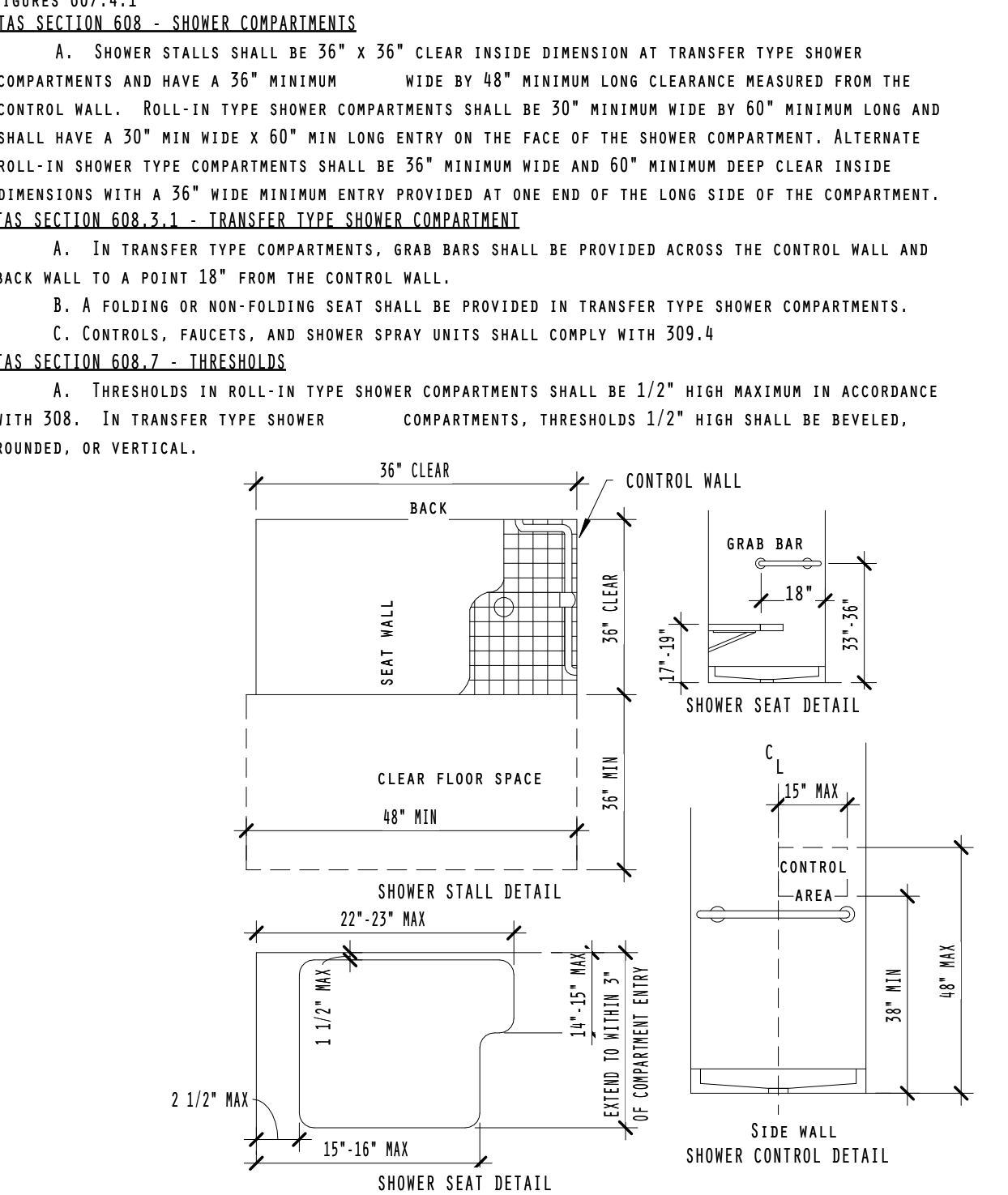
**CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES (CONTINUED)**  
**TAS SECTION 604.8.1.2 - DOORS (REFERENCE FIGURES 604.8.1.2, 604.8.2)**  
 A. Toilet compartments doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42" minimum. Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4" maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4" maximum from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.  
 B. Compartments shall be arranged for left-hand or right-hand approach to the water closet.  
**TAS SECTION 604.8.1.4 - TOE CLEARANCE**  
 A. The front partition and at least one side partition shall provide a toe clearance of 9" minimum above finish floor and 6" deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide 12" minimum toe clearance above finish floor.  
**TAS SECTION 604.8.2 - AMBULATORY ACCESSIBLE COMPARTMENTS**  
 A. Ambulatory accessible compartments shall comply with Figure 604.8.2  
 B. Ambulatory accessible compartments shall have a depth of 60" minimum and a width of 35"-37" maximum.  
 C. Grab bars in ambulatory accessible compartments shall comply with 609. A side-wall grab bar that is 42" long minimum, located 12" max. from the rear wall and extending 54" min. from the rear wall shall be located on both sides of compartment.  
 D. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40"-48" maximum above the finish floor.  
**TAS SECTION 605 - URINALS**  
 A. Urinals shall be stall-type or wall-hung with the rim 17" maximum above the finish floor or ground. Urinals shall be 13 1/2" deep minimum measured from the outer face of the urinal rim to the back side of the fixture. (Fig. 605.2)  
 B. A clear floor space complying with 305 (30" min. wide by 48" min. deep) positioned for forward approach shall be provided.



**TAS SECTION 606 - LAVATORIES AND SINKS**  
 A. A clear floor space complying with 305 (30" min. wide by 48" min. deep) positioned for a forward approach, and knee and toe clearances complying with 306 shall be provided.  
 1. Soap and towel dispensers must also be located within the reach ranges specified in 308. Locate soap and towel dispensers so they are easy to use by a person at the accessible lavatory.  
 B. Lavatories & sinks shall be installed w/ the front of the higher rim or counter surface 34" max. above the finish floor or ground.  
 C. Controls for faucets shall comply with 309. Hand-operated metering faucets shall remain for 10 seconds minimum.  
 D. Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

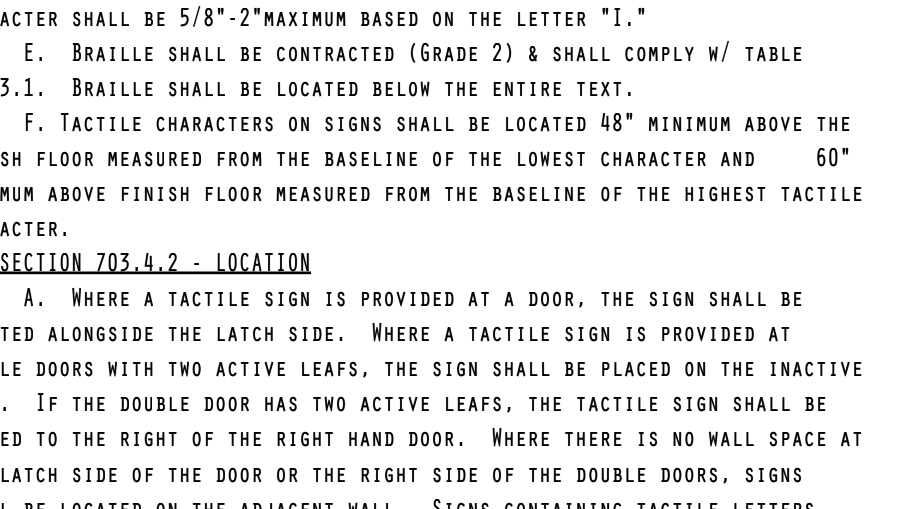


**TAS SECTION 607 - BATHTUBS**  
 A. Clearance in front of bathtubs shall extend the length of the bathtub and shall be 30 inches wide minimum. A lavatory complying with 606 shall be permitted at the control end of the clearance. Where a permanent seat is provided at the head end of the bathtub, the clearance shall extend 12" minimum beyond the wall at the head end of the bathtub.  
 B. A permanent seat at the head end of the bathtub or a removable in-tub seat shall be provided. Seats shall comply with 610.  
 C. Grab bars for bathtubs shall comply with 609 and shall be provided in accordance with Figure 607.4.1  
**TAS SECTION 608 - SHOWER COMPARTMENTS**  
 A. Shower stalls shall be 36" x 36" clear inside dimension at transfer type shower compartments and have a 36" minimum wide by 48" minimum long clearance measured from the control wall. Roll-in type shower compartments shall be 30" minimum wide by 60" minimum long and shall have a 30" min wide x 60" min long entry on the face of the shower compartment. Alternate roll-in shower type compartments shall be 36" minimum wide and 60" minimum deep clear inside dimensions with a 36" wide minimum entry provided at one end of the long side of the compartment.  
**TAS SECTION 608.3.1 - TRANSFER TYPE SHOWER COMPARTMENT**  
 A. In transfer type compartments, grab bars shall be provided across the control wall and back wall to a point 18" from the control wall.  
 B. A folding or non-folding seat shall be provided in transfer type shower compartments.  
 C. Controls, faucets, and shower spray units shall comply with 309.4  
**TAS SECTION 608.7 - THRESHOLDS**  
 A. Thresholds in roll-in type shower compartments shall be 1/2" high maximum in accordance with 308. In transfer type shower compartments, thresholds 1/2" high shall be beveled, rounded, or vertical.

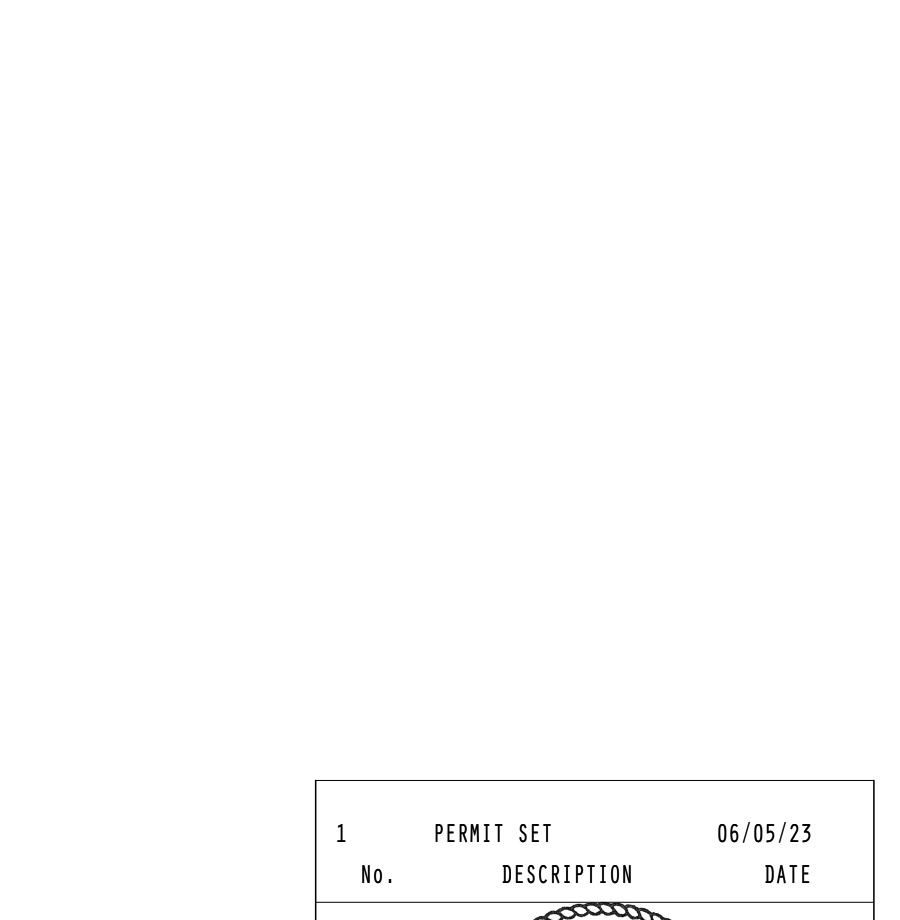


**TAS SECTION 609 - GRAB BARS**  
 A. Grab bars with circular cross sections shall have an outside diameter of 1 1/4" minimum and 2" maximum. Grab bars with non-circular cross sections shall have a cross-section dimension of 2" maximum and a perimeter dimension of 4" minimum and 4.8" maximum.  
 B. The space between the wall and grab bar shall be 1 1/2". The space between the grab bar and projecting objects below shall be 1 1/2" minimum. The space between the grab bar and projecting objects above shall be 12" minimum.  
 C. Grab bars shall be installed in a horizontal position, 33" minimum and 36" maximum above the finish floor measured to the top of the gripping surface. Refer to chart for children accessible heights for exceptions.  
 D. Allowable stresses shall not be exceeded for materials used when a horizontal or vertical force of 250 pounds is applied at any point of the grab bar or any of its components.  
**TAS SECTION 610.2 - BATHUB SEATS**  
 A. Seat shall be able to stand vertical and horizontal forces of 250 pounds and shall have the following features:  
 1. Shall be 17"-19" above finish floor  
 2. Removable seats shall be 15"-16" deep and capable of secure placement.  
 3. Permanent seats shall be 15" deep minimum & extend from the back wall to or beyond the outer edge of bathtub.  
**TAS SECTION 610.3 - SHOWER SEATS**  
 A. Seats shall be L-shaped with the rear edge 2 1/2" max. from the wall and 15"-16" max. from the seat wall. The rear edge of the "L" portion shall be 1 1/2" max. from the wall and the front edge shall be 14"-15" from the wall. The end of the "L" shall be 22"-23" from the main seat wall. Seats shall have be able to stand vertical and horizontal forces of 250 lbs.  
 1. Shall be 17"-19" above finish floor  
 2. Where a seat is provided in a roll in type shower it must be the fold-up type.  
**TAS SECTION 611 - WASHING MACHINES AND CLOTHES DRYERS**  
 A. Top loading machines shall have the door to the laundry compartment located 36" maximum above the finish floor. Front loading machines shall have the bottom of the opening to the laundry compartment located 15"-36" above the finish floor.  
**CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES**  
**TAS SECTION 702 - FIRE ALARM SYSTEMS**  
 A. Fire alarm systems shall have permanently installed audible and visual alarms complying with NFPA 72 (1999 or 2002 addition) except that the maximum allowable sound level of audible notification appliances complying with section 4-3.2.1 of NFPA 72 (1999 addition) shall have a sound level no more than 110dB at the maximum hearing distance from the audible audiences.

**TAS SECTION 703 - SIGNS**  
 A. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.  
 B. Characters shall be uppercase and raised 1/32" minimum above their background.  
 C. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of any other unusual form. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55-110% of the height of the uppercase letter "I."  
 D. Character height measured vertically from the baseline of the character shall be 5/8"-2" maximum based on the letter "I."  
 E. Braille shall be contracted (Grade 2) & shall comply w/ table 703.3.1. Braille shall be located below the entire text.  
 F. Tactile characters on signs shall be located 48" minimum above the finish floor measured from the baseline of the lowest character and 60" maximum above finish floor measured from the baseline of the highest tactile character.  
**TAS SECTION 703.4.2 - LOCATION**  
 A. Where a tactile sign is provided at a door, the sign shall be located alongside the latch side. Where a tactile sign is provided at double doors with two active leaves, the sign shall be placed on the inactive leaf. If the double door has two active leaves, the tactile sign shall be placed to the right of the right hand door. Where there is no wall space at the latch side of the door or the right side of the double doors, signs shall be located on the adjacent wall. Signs containing tactile letters shall be located so that a minimum clear space of 18"x18," centered on the tactile letters is provided, beyond the arc of any door swing between the closed position and 45 degrees open position.  
**TAS SECTION 703.5 - VISUAL CHARACTERS**  
 A. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background or vice versa.  
 B. Characters shall be uppercase or lowercase or a combination of both.  
 C. Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative, or of any other unusual form. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55-110% of the height of the uppercase letter "I."  
 D. Character height shall comply with table 703.5.5 visual character height  
 E. Visual characters shall be 40" maximum above the finish floor or ground.  
**TAS SECTION 703.6 - PICTOGRAMS**  
 A. Pictograms shall have a field height of 6" minimum. Characters and braille shall not be located in the pictogram field.  
 B. Pictograms and their field shall have a non-glare finish. Pictograms shall contrast with their background with either light characters on a dark background or vice versa.



**TAS SECTION 703.5.5 - VISUAL CHARACTER HEIGHT**  
 A. Characters shall be 40" maximum above the finish floor or ground.  
**TAS SECTION 703.6 - PICTOGRAMS**  
 A. Pictograms shall have a field height of 6" minimum. Characters and braille shall not be located in the pictogram field.  
 B. Pictograms and their field shall have a non-glare finish. Pictograms shall contrast with their background with either light characters on a dark background or vice versa.



**TAS SECTION 609 - GRAB BARS**  
 A. Grab bars with circular cross sections shall have an outside diameter of 1 1/4" minimum and 2" maximum. Grab bars with non-circular cross sections shall have a cross-section dimension of 2" maximum and a perimeter dimension of 4" minimum and 4.8" maximum.  
 B. The space between the wall and grab bar shall be 1 1/2". The space between the grab bar and projecting objects below shall be 1 1/2" minimum. The space between the grab bar and projecting objects above shall be 12" minimum.  
 C. Grab bars shall be installed in a horizontal position, 33" minimum and 36" maximum above the finish floor measured to the top of the gripping surface. Refer to chart for children accessible heights for exceptions.  
 D. Allowable stresses shall not be exceeded for materials used when a horizontal or vertical force of 250 pounds is applied at any point of the grab bar or any of its components.  
**TAS SECTION 610.2 - BATHUB SEATS**  
 A. Seat shall be able to stand vertical and horizontal forces of 250 pounds and shall have the following features:  
 1. Shall be 17"-19" above finish floor  
 2. Removable seats shall be 15"-16" deep and capable of secure placement.  
 3. Permanent seats shall be 15" deep minimum & extend from the back wall to or beyond the outer edge of bathtub.  
**TAS SECTION 610.3 - SHOWER SEATS**  
 A. Seats shall be L-shaped with the rear edge 2 1/2" max. from the wall and 15"-16" max. from the seat wall. The rear edge of the "L" portion shall be 1 1/2" max. from the wall and the front edge shall be 14"-15" from the wall. The end of the "L" shall be 22"-23" from the main seat wall. Seats shall have be able to stand vertical and horizontal forces of 250 lbs.  
 1. Shall be 17"-19" above finish floor  
 2. Where a seat is provided in a roll in type shower it must be the fold-up type.  
**TAS SECTION 611 - WASHING MACHINES AND CLOTHES DRYERS**  
 A. Top loading machines shall have the door to the laundry compartment located 36" maximum above the finish floor. Front loading machines shall have the bottom of the opening to the laundry compartment located 15"-36" above the finish floor.  
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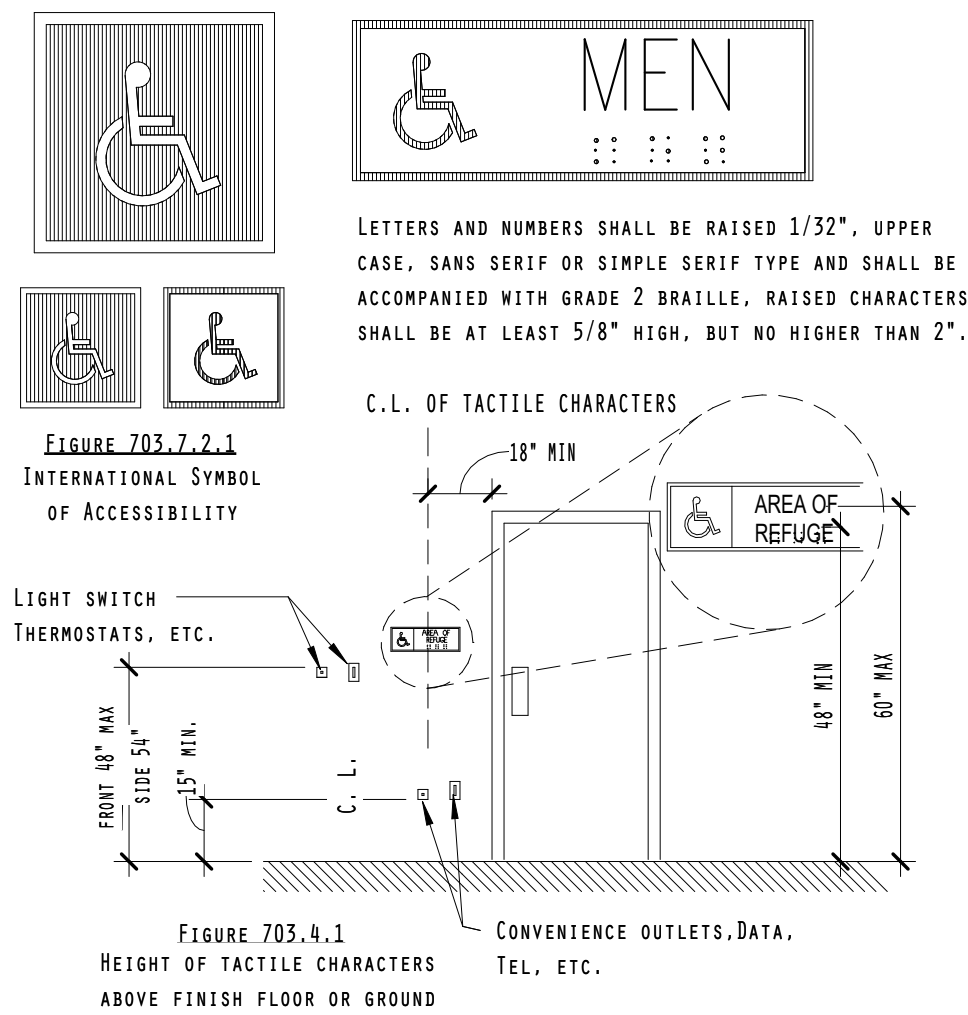
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**TAS SECTION 704.2 - WHEELCHAIR ACCESSIBLE TELEPHONES**

A. A clear floor or ground space complying with 305 shall be provided. The clear floor or ground space shall not be obstructed by bases, enclosures, or seats.

B. **Parallel Approach** - The distance from the edge of the telephone enclosure to the face of the telephone unit shall be 10" maximum. (Fig. 704.2.1.1)

C. **Forward Approach** - The distance from the front edge of a counter within the telephone enclosure to the face of the telephone unit shall be 20" maximum. (Fig. 704.2.1.2)

D. The cord from the telephone to the handset shall be 29" minimum long.

**TAS SECTION 704.3 - VOLUME CONTROL TELEPHONES**

A. Volume control must provide a gain adjustable to 20 dB minimum. For incremental volume control, provide at least intermediate step of 12 dB of gain minimum. An automatic reset shall be provided.

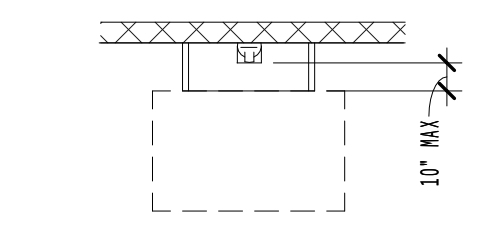


Figure 704.2.1.1  
Parallel Approach  
to Telephone

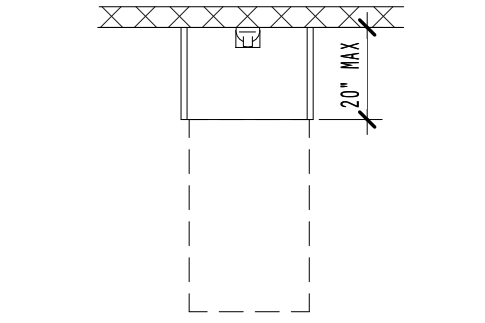


Figure 704.2.1.2  
Forward Approach  
to Telephone

**TAS SECTION 705 - DETECTABLE WARNINGS**

A. Truncated domes in a detectable warning surface shall have a base diameter of .9" - 1.4" maximum, a top diameter of 50-65% of the base diameter, and a height of .2".

B. Detectable warning surfaces shall contrast visually with adjacent walking surfaces either light-on-dark, or dark-on-light.

C. Platform boarding edges shall be 24" wide and shall extend the full length of the public use areas of the platform.

**TAS SECTION 706 - ASSISTIVE LISTENING SYSTEMS**

A. Receivers required for use w/ an assistive listening system shall include a 1/8" standard mono jack.

B. Receivers required to be hearing-aid compatible shall interface with telecoils in hearing aids through the provision of neckloops.

C. Assistive listening systems shall be capable of providing a sound pressure level of 110-118 dB w/ a dynamic range on the volume control of 50dB.

D. The signal-to-noise ratio for internally generated noise in assistive listening systems shall be 18 dB minimum. Peak clipping shall not exceed 18 dB of clipping relative to the peaks of speech.

**CHAPTER 8: SPECIAL ROOMS, SPACES, AND ELEMENTS**

**TAS SECTION 802.1 - WHEELCHAIR SPACES**

A. The floor or ground surface of wheelchair spaces shall comply w/ 302. Changes in level are not permitted.

B. A single wheelchair space shall be 36" wide minimum.

C. Where a wheelchair space can be entered from the front or rear, the wheelchair space shall be 48" deep minimum. Where a wheelchair space can be entered only from the side, the wheelchair space shall be 60" deep minimum.

D. Wheelchair spaces shall adjoin accessible routes. Accessible routes shall not overlap wheelchair spaces.

E. Lines of sight to the screen, performance area, or playing field for spectators shall comply with 802.2 (have line of sight over heads of spectators, dependent on spectators position)

**TAS SECTION 802.3 - COMPANION SEATS**

A. Companion seats should be positioned to have shoulder alignment with adjacent wheelchair spaces. The shoulder alignment point shall be measured 36" from the front of the wheelchair space. The floor surface should be the same for the wheelchair space and companion space.

B. Companion seats should be equal in size, quality, comfort, & amenities of immediate seating.

**TAS SECTION 802.4 - AISLE SEATS**

A. Each designated aisle seat shall be identified by a sign or marker. Where armrests are provided on other seating in the immediate area, folding or retractable armrests must be provided on the aisle side of the seat.

**TAS SECTION 803 - DRESSING, FITTING, AND LOCKER ROOMS**

A. Turning space complying with 304 shall be provided within the room.

B. Doors shall not swing into the room unless a clear floor or ground space complying with 305.3 is provided beyond the arc of the swing.

C. A bench that is 42" long minimum x 20"-24" deep set at a height of 17"-19" shall be provided within the room.

D. Coat hooks shall be located within reach ranges specified in 308. Shelves shall be 40"-48" maximum above the finish floor or ground.

**TAS SECTION 804 - KITCHENS AND KITCHENETTES**

A. In a pass through kitchens where counters or appliances are on opposing sides, there must be a 40" minimum clearance between opposing sides and an entrance from each side.

B. In a U-shaped kitchen enclosed on 3 continuous sides, clearance between all opposing sides must be 60" minimum.

C. Kitchen work surface shall be 34" above finish floor or ground.

**CHAPTER 9: BUILT-IN ELEMENTS**

**TAS SECTION 902 - DINING SURFACES AND WORK SURFACES**

A. A clear floor space complying with 305 positioned for a forward approach shall be provided. Knee and toe clearance must comply with 306.

B. Tops of dining surfaces & work surfaces shall be 28"-34" maximum above the finish floor or ground.

**TAS SECTION 902.4 - DINING SURFACES AND WORK SURFACES FOR CHILDREN'S USE**

A. A clear floor space complying with 305 positioned for a forward approach shall be provided. Knee and toe clearance must comply with 306, except the knee clearance shall be 24" minimum above the finish floor or ground.

B. Tops of dining surfaces & work surfaces shall be 26"-30" maximum above the finish floor or ground.

**TAS SECTION 903 - BENCHES**

A. Clear floor or ground space complying with 305 shall be provided and shall be positioned at the end of the bench seat and parallel to the short axis of the bench.

B. Benches shall have seats 42" minimum long and 20"-24" maximum deep.

C. Bench shall provide back support or be affixed to a wall.

D. Top of bench seat shall be 17"-19" maximum above the finish floor or ground.

E. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds is applied at any point on the seat or its components.

**TAS SECTION 904 - SALES AND SERVICE COUNTERS**

A. **Parallel Approach** - A portion of the counter surface that is 36" long minimum and 36" high maximum shall be provided. A clear floor space complying with 305 shall be positioned for a parallel or approach adjacent to the 36" high minimum length of the counter.

B. **Forward Approach** - A portion of the counter surface that is 30" long minimum and 36" high maximum shall be provided. Knee and toe spaces complying with 306 shall be provided under the counter. A clear floor space complying with 305 shall be positioned for a parallel or approach adjacent to the 36" high minimum length of the counter.

C. The accessible portion of the countertop shall extend the same depth as the sales/service counter.

AGE BASED DIMENSIONAL INFORMATION TABLE FOR CHILDREN						
	ADULT (AGE 12 +)	AGE 9-12	AGE 5-8	AGE 3-4	TAS SECTION	
HANDRAILS	34" MIN - 38" MAX	SECONDARY HANDRAIL AT 28" MAX WITH MIN 9" CLEARANCE BETWEEN UPPER HANDRAIL RECOMMENDED			505.4	
REACH RANGE - FORWARD OR SIDE	15" MIN - 48" MAX	16" MIN - 44" MAX	18" MIN - 40" MAX	20" MIN - 36" MAX	308.2	
WC/TOLLETS	WC CENTERLINE TO WALL	16" - 18"	15" - 18"	12" - 15"	12"	604.9
	WC CENTERLINE TO WALL (AMBULATORY)	17" - 19"	—	—	—	604.2
	WC TOP OF SEAT	17" - 19"	15" - 17"	12" - 15"	11" - 12"	604.9
	GRAB BARS (TO TOP)	33" - 36"	25" - 27"	20" - 25"	18" - 20"	604.9
DISPENSER HEIGHT	15" - 48"	17" - 19"	14" - 17"	14"	604.9	
LAV/MIRRORS	LAV. MIN. KNEE CLEAR.	27" FORWARD APPROACH ONLY	24" FORWARD APPROACH ONLY	24" FORWARD APPROACH ONLY	PARALLEL APPROACH ALLOWED	606.2.4
	LAV. MAX RIM/COUNTERTOP	34"	31"	31"	—	606.2.4
	LAV. MAX TO FAUCETS FROM FRONT	24"	—	—	—	308.1
	MIRRORS ABOVE LAV., MAX TO BOTTOM OF REFLECTIVE SURFACE	40"	—	—	—	605.3
	MIRRORS NOT ABOVE LAV., MAX TO BOTTOM OF REFLECTIVE SURFACE	35"	—	—	—	605.3
MIN TOP OF MIRROR	74"	—	—	—	605.3	
DRINKING FOUNTAINS	MAX TO LOW SPOUT	36"	30" (SPOUT MUST BE 3 1/2" FM. FRONT)	30" (SPOUT MUST BE 3 1/2" FM. FRONT)	30" (SPOUT MUST BE 3 1/2" FM. FRONT)	602.2
	MAX TO HIGH/STANDARD PERSON SPOUT	38" - 43"	—	—	—	602.7

\*\*NOTE: " - " INDICATES NO EXCEPTIONS MADE FOR THAT ITEM PER TAS 2012 STANDARDS

**TAS SECTION 407 - ELEVATORS**

A. Elevators shall comply with ASME A17.1. They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

**TAS SECTION 407.2 - ELEVATOR LANDING REQUIREMENTS**

A. Call buttons shall be raised or flush and located within one of the reach ranges specified in 308, measured to the centerline of the highest operable point.

- Call buttons shall be 3/4" minimum in the smallest dimension.
- A clear floor space complying with 305 shall be provided at the controls.
- The call button that designates the up direction shall be located above the call button that designates the down direction.
- Call buttons shall have visible signals to indicate when each call is registered and when each call is answered.
- Keypads shall be in a standard telephone keypad arrangement.
- Visible and audible signals shall be provided at each hoistway entrance to indicate which car is answering a call and the car's direction of travel. Where in-car signals are provided, they shall be visible from the floor area adjacent to the hall call buttons.

- Visible signal features shall be centered 72" minimum above the finish floor or ground. The visible signal elements shall be 2 1/2" min. measured along the vertical centerline of the element. Signals shall be visible from the floor area adjacent to the hall call button.
- Audible signals shall sound once for the up direction and twice for the down direction, or shall have verbal annunciators that indicate the direction of elevator car travel. Audible signals shall have a frequency of 1500Hz max. Verbal annunciators shall have a frequency of 300 Hz min - 3000 Hz max.
- Floor designation shall be provided on both jambs of elevator hoistway entrances. Floor designations shall be provided in both tactile characters and braille. Tactile characters shall be 2" high minimum. A tactile star shall be provided on both jambs at the main entry level.

**TAS SECTION 407.3 - ELEVATOR DOOR REQUIREMENTS**

A. Elevator doors shall be horizontal sliding type. Car gates are prohibited.

B. Elevator doors shall be provided with a reopening device that shall stop and open a door and hoistway door automatically if the door becomes obstructed by an object or person.

- The device shall be activated by sensing an obstruction passing through the opening at 5" nominal and 29" nominal above the finish floor.
- The device shall not require physical contact to be activated, although contact is permitted to occur before the door reverses. Door reopening devices shall remain effective for 20 seconds minimum.
- Elevator doors shall remain fully open in response to a car call for 3 seconds minimum.

**TAS SECTION 410 - PLATFORM LIFTS**

A. Platform lifts shall comply with ASME A18.1 (1999 edition or 2003 edition). Platform lifts shall not be attendant-operated and shall provide unassisted entry and exit from lift.

B. The clearance between the platform sill and the edge of any runway landing shall be 1" maximum.

C. Platform lifts shall have low-energy power-operated doors or gates complying w/ 404.3. Doors shall remain open for 20 seconds min. End doors and gates shall provide a clear width 32" min. Side doors and gates shall provide a clear 42" width min.

NOTE: REQUIRES A VARIANCE FROM THE T.D.L.R. TO USE IN LIEU OF AN ELEVATOR

1 PERMIT SET 06/05/23  
No. DESCRIPTION DATE

06.05.23

**SAM GARCIA ARCHITECT**  
1200 AUBURN AVE.,  
SUITE 280  
MCALLEN, TX 78504  
(956) 631 - 8327  
INFO@SAMGARCIAARCHITECT.COM

**KHIT CHIROPRACTIC WELLNESS**

6151 E. POST ROAD,  
KYLE, TX 78640

2022-008 06.05.23  
ACCESSIBILITY STANDARDS

**ADA3**

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GENERAL NOTES

- THE CONTRACTOR SHALL PROTECT AREA AND NEW OR EXISTING MATERIALS AND FINISHES FROM DAMAGE, WHICH MAY OCCUR FROM CONSTRUCTION, TRANSPORT, DUST, WATER, ETC. AND SHALL PROVIDE AND MAINTAIN TEMPORARY BARRICADES, CLOSURE WALLS, ETC., AS REQUIRED, TO PROTECT THE PUBLIC/ADJACENT AREAS DURING THE PERIOD OF CONSTRUCTION.
- DAMAGE TO NEW AND EXISTING MATERIALS, FINISHES, STRUCTURES AND EQUIPMENT SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT THE EXPENSE OF THE GENERAL CONTRACTOR.
- MATERIALS SPECIFIED BY THEIR BRAND NAMES ARE TO ESTABLISH STANDARD OF QUALITY AND PERFORMANCE. ANY REQUEST FOR SUBSTITUTION SHALL BE SUBMITTED TO ARCHITECT FOR REVIEW FOR EQUAL QUALITY AND PERFORMANCE AND SHALL NOT BE PURCHASED OR INSTALLED WITHOUT HIS WRITTEN APPROVAL.
- WORK LISTED, SHOWN OR IMPLIED ON ANY CONSTRUCTION DOCUMENTS SHALL BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR, EXCEPT WHERE OTHERWISE NOTED. THE GENERAL CONTRACTOR SHALL CLOSELY COORDINATE HIS WORK WITH THAT OF OTHER CONTRACTORS OR VENDORS TO ASSURE THAT ALL SCHEDULES ARE MET AND THAT ALL WORK IS DONE IN CONFORMANCE TO MANUFACTURER'S REQUIREMENTS.
- THE CONTRACTOR SHALL MAINTAIN A CURRENT AND COMPLETE SET OF CONSTRUCTION DOCUMENTS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION FOR USE OF ALL TRADES AND SHALL PROVIDE ALL SUBCONTRACTORS WITH CURRENT CONSTRUCTION DOCUMENTS AS REQUIRED.
- THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS ON A REGULAR BASIS AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANING TO PREVENT ANY DIR, DEBRIS, OR DUST FROM AFFECTING, IN ANY WAY, FINISHED AREAS IN OR OUTSIDE JOBSITE. THE BUILDING REFUSE FACILITIES SHALL NOT BE USED FOR THIS PURPOSE.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER SUB-TRADES AND REPORT TO ARCHITECT ANY DISCREPANCIES FOR CORRECTION OR ADJUSTMENT. NO ALLOWANCE WILL BE MADE FOR INCREASED COST INCURRED DUE TO LACK OF PROPER COORDINATION.
- THE CONTRACTOR, OR SUBCONTRACTORS, SHALL SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, AND LICENSES REQUIRED FOR PROPER COMPLETION OF THE WORK. THE CONTRACTOR SHALL REQUEST ALL INSPECTIONS REQUIRED BY LOCAL GOVERNMENTAL AGENCIES AND COORDINATE HIS WORK WITH SUCH.
- THE GENERAL CONTRACTOR SHALL SUBMIT ONE (1) COPY OF ALL MANUFACTURER'S WARRANTIES AND OPERATIONS/MAINTENANCE INSTRUCTIONS TO THE OWNER.
- FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING THE WORK. SHOULD THE CONTRACTOR FIND, AFTER THE VISIT TO THE SITE OR DURING CONSTRUCTION, ANY DISCREPANCIES, OMISSIONS, AMBIGUITIES, OR CONFLICTS IN OR AMONG THE DRAWINGS, OR BE IN DOUBT AS TO THEIR MEANING, HE/SHE SHOULD IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING BEFORE PROCEEDING.
- GROUND/LOCKING MAY NOT BE WHOLLY SHOWN ON DRAWINGS AND GOOD CONSTRUCTION PRACTICE SHALL GOVERN/DETERMINE SAID USE WHEN A QUESTION ARISES.
- THE GENERAL CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO ALL LOCATIONS OF DRY WALL PARTITION CONSTRUCTION THAT ABOUT OR RECEIVE MILLWORK OR CABINETRY.
- ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY LESS THAN 8 INCHES FROM THE GROUND SHALL BE PRESSURE TREATED OR REDWOOD.
- ISOLATE DISSIMILAR METALS SO THEY ARE NOT IN CONTACT WITH EACH OTHER TO PREVENT/AVOID ELECTROLYTIC REACTION.
- CONTRACTOR SHALL COMPLY WITH CURRENT APPLICABLE LOCAL ORDINANCES FOR UTILITY SERVICES.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES. WHERE ENCOUNTERED, CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS FOR SUPPORT, SHORE-UP, REROUTE OR UTILITY DISCONNECTIONS AS REQUIRED BY APPLICABLE LOCAL OR PRIVATE UTILITY COMPANIES.
- THE CONTRACTOR SHALL VERIFY ALL ELECTRICAL AND PLUMBING ROUGH-IN
- THE CONTRACTOR SHALL COORDINATE HIS WORK W/ THAT OF THEIR SEPARATE CONTRACTORS @ BUILDING PENETRATIONS SUCH AS WINDOW DOORS, VENTS, LOUVERS, ETC.
- THE CONTRACTOR SHALL COORDINATE THE INSTALLATION AND REQUIRED CLEARANCES OF THE EQUIPMENT, NOT STRUCTURAL MEMBER SHALL BE OMITTED, NOTCHED OUT, BLOCKED OUT, OR RELOCATED W/OUT PRIOR APPROVAL BY THE ARCHITECT OR ENGINEER.
- WINDOWS & DOOR LITES W/IN 40 " OF THE LOCKING DEVICE SHALL BE FULLY TEMPERED.
- THE ELECTRIC SUBCONTRACTOR SHALL FURNISH AND INSTALL EXIT LIGHTS IN ACCORDANCE WITH THE PREVAILING BUILDING AND FIRE CODES.
- ALL PRODUCTS AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS/SPECIFICATIONS UNLESS SPECIFIED OTHERWISE.
- MATERIALS, EQUIPMENT, AND CRAFTSMANSHIP OF ALL TRADES SHALL CONFORM TO RECOGNIZED ASTM OF QUALITY APPROPRIATE TO GRADE OF SAID MATERIALS, EQUIPMENT, AND CRAFTSMANSHIP.
- MATERIALS AND EQUIPMENT SHALL BE NEW, SOUND, OF HIGH QUALITY, AND SUITABLE FOR APPLICATIONS SPECIFIED.
- MATERIALS SHALL BE POSITIONED IN AN ORDERLY MANNER AND SHALL BE ALIGNED W/ THE BUILDING STRUCTURE. VERTICAL MEMBERS/SURFACES SHALL BE PLUMB. HORIZONTAL MEMBERS/SURFACES SHALL BE LEVEL AND ALL SURFACES TRUE TO PLANES SPECIFIED.
- CRAFTSMANSHIP SHALL BE NEAT, CLEAN, AND TRUE TO LINE AND DIMENSION. FINISH MATERIALS SHALL BE FREE OF TOOL MARKS, FLAKES AND BLENDISHES. JOINERY AND CONNECTIONS SHALL BE ACCURATE, CLOSE/TIGHT FITTING AND WELL CRAFTED. TOLERANCES RECOGNIZED BY NATIONAL TRADE ASSOCIATIONS WILL BE THE MINIMUM ACCEPTABLE STANDARD FOR RESPECTIVE TRADE WORK.
- CEILING PLANE SHALL BE LEVEL AND TRUE AND IN ALIGNMENT WITH ALL LIGHTING, SPRINKLER, HVAC, AND OTHER ELEMENTS INCORPORATED THEREIN.
- MECHANICAL, HVAC, AND PLUMBING ELEMENTS SHALL AT NO TIME COME IN CONTACT WITH CEILING CONSTRUCTION EXCEPT AS NECESSARY PENETRATIONS MAY REQUIRE.
- MATERIALS, EQUIPMENT, AND/OR CONSTRUCTIVE SERVICES NOT INDICATED IN DRAWINGS OR SPECIFIED HEREIN, BUT REQUIRED FOR SUCCESSFUL AND EFFICIENT COMPLETION OF THE INSTALLATION SHALL BE CONSIDERED INCLUDED IN THE DOCUMENTS. CONTENTS AND SAID MATERIAL, EQUIPMENT, AND/OR CONSTRUCTIVE SERVICES SHALL BE FURNISHED AND INSTALLED AT NO ADDITIONAL COST TO THE OWNER.
- WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS OR LEVEL OF CRAFTSMANSHIP, SUCH STANDARDS SHALL BE MAINTAINED PER THE LATEST ADDITION AND/OR ADDENDUM.
- ANY OMISSIONS OR CONFLICTS WITHIN THE DRAWINGS, NOTES, OR DETAILS SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH WORK.
- WHERE SPECIFIC INSTRUCTIONS REQUIRE THAT A PARTICULAR PRODUCT OR MATERIAL BE INSTALLED BY MANUFACTURER OR PER MANUFACTURER'S INSTRUCTIONS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ANY SUBCONTRACTORS ARE APPROVED APPLICATORS & THAT INSTALLERS FOLLOW MANUFACTURER'S INSTRUCTIONS.
- DETAILS SHOWN SHALL BE INCORPORATED INTO CONSTRUCTION AT ALL APPROPRIATE LOCATIONS WHETHER SPECIFICALLY CALLED OUT/IDENTIFIED OR NOT.
- TYPICAL DETAILS SHALL APPLY IN GENERAL CONSTRUCTION THROUGHOUT, UNLESS DETAILED OTHERWISE ON DRAWINGS.

- SHOP DRAWINGS: CONTRACTOR SHALL FURNISH SHOP DRAWINGS FOR ALL SHOP FABRICATED ITEMS AND WHERE CUSTOMARILY REQUIRED. SUBMIT FOUR (4) SETS OF SHOP DRAWINGS FOR REVIEW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE SHOP DRAWINGS FOR ACCURACY, COORDINATION WITH OTHER TRADES, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS BEFORE BEING SUBMITTED FOR APPROVAL. ARCHITECT'S OR ENGINEER'S APPROVAL OF SHOP DRAWINGS SHALL CONSTITUTE REVIEW AND APPROVAL OF THE GENERAL ARRANGEMENT OF COMPONENTS TO COMPLY WITH THE GENERAL INTENT OF THE CONSTRUCTION DOCUMENTS, EVEN IF SUCH ITEMS ARE NOT SHOWN ON THE SHOP DRAWINGS. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND CONDITIONS TO INSURE A PROPER FIT UNDER FIELD CONDITIONS AND SHALL MAKE ADJUSTMENTS AS REQUIRED TO MAKE PARTS ALIGN. ALL REVISIONS TO SHOP DRAWINGS AFTER THE FIRST SUBMISSION MUST BE PROPERLY IDENTIFIED ON SUBSEQUENT SUBMISSIONS.
- A MINIMUM QUANTITY OF TWO (2) 1" - 0" x 1' - 0" FINISH SAMPLES OF ALL SPECIFIED FINISHES AND CURRENT STOCK CUTTINGS OF ALL SPECIFIED WALL COVERINGS SHALL BE PROVIDED FOR APPROVAL PRIOR TO ORDERING.
- PAINT FOR WALL FINISHES SHALL BE PROVIDED AS THREE (3) COAT EGGSHELL LATEX ENAMEL PAINT. INSTALLATION: ONE (1) PRIME COAT AND TWO (2) FINISH COATS. COLORS AS SPECIFIED. METAL ELEMENTS AND DOOR FRAMES SHALL HAVE A THREE (3) COAT SEMI-GLOSS ALKYLID ENAMEL FINISH.
- THE GENERAL CONTRACTOR SHALL ASSURE THAT NOT ELECTRIC RECEPTACLE OR TELECOMMUNICATIONS OUTLET COVERPLATES HAVE BEEN INSTALLED PRIOR TO COMPLETION OF APPLICATION OF ANY WALL FINISH MATERIALS. ANY SUCH COVERPLATES OR SURFACE HARDWARE, ETC. IN PLACE SHALL BE REMOVED PRIOR TO WALL FINISH APPLICATION.
- THE GENERAL CONTRACTOR SHALL PROVIDE AND MAINTAIN COMPLETE PROTECTION FOR ALL NEW INSTALLED FLOOR FINISHES (INCLUDING CARPET) UNTIL ALL CONSTRUCTION WORK IS COMPLETE. PROTECTION SHALL BE REMOVED ONLY IMMEDIATELY PRIOR TO JOB COMPLETION.
- NO WORK IS TO COMMENCE UNTIL PLANS HAVE BEEN APPROVED BY THE DEPARTMENT OF BUILDINGS AND PERMIT TO BUILD HAS BEEN OBTAINED BY THE GENERAL CONTRACTOR.
- PRIOR TO THE START OF CONSTRUCTION, THE GENERAL CONTRACTOR SHALL COORDINATE SCHEDULING OF MEETING WITH HIS PROJECT PERSONNEL, THE OWNER, ARCHITECT, AND OTHERS FOR REVIEW OF PROJECT SCOPE, DESIGN, INTENT, CONSTRUCTION QUALITY EXPECTED, AND FINAL DISCUSSION OF DRAWINGS/DETAILS/QUESTIONS.
- PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE CODES OF THE LOCAL JURISDICTION.
- THE GENERAL CONTRACTOR AND ALL VENDORS/SUBCONTRACTORS ARE RESPONSIBLE FOR FIELD VERIFICATION OF DIMENSIONS, QUANTITIES, ETC. OF THEIR RESPECTIVE WORK.
- DO NOT SCALE DRAWINGS. WHERE DIMENSIONS BETWEEN SMALL SCALE AND DETAIL DRAWINGS DIFFER, DETAIL DIMENSIONS SHALL GOVERN. FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- IF SPACE IS AVAILABLE, THE OWNER MAY PERMIT THE CONTRACTOR TO STORE SOME MATERIALS ON THE SITE IN AN AREA APPROVED BY THE OWNER - PROVIDED THAT THE CONTRACTOR ACCEPTS FULL RESPONSIBILITY FOR ANY AND ALL STORED MATERIALS.
- GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, AIA DOCUMENT A-201, THE LATEST EDITION, SHALL BE MADE A PART OF THESE DRAWINGS.
- THE GENERAL CONTRACTOR SHALL CARRY WORKMEN'S COMPENSATION AND LIABILITY INSURANCE TO COVER ALL CONSTRUCTION OPERATIONS TO BE PERFORMED.
- DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE REMAIN THE PROPERTY OF ARCHITECT AND ARE PROTECTED UNDER COMMON LAW COPYRIGHT PROVISIONS. THEY ARE NOT TO BE REUSED EXCEPT BY WRITTEN AGREEMENT AND WITH THE AGREED COMPENSATION TO THE ARCHITECT. IF REUSED, WITHOUT PERMISSION, THE ARCHITECT SHALL BE INDEMNIFIED AND HELD HARMLESS FROM ALL LIABILITY, LEGAL EXPOSURE, CLAIMS, DAMAGES, LOSSES & EXPENSES. DRAWINGS SHALL NOT BE USED FOR ISSUANCE OF A BUILDING PERMIT UNLESS SIGNED AND SEALED BY THE ARCHITECT. DRAWINGS SHALL NOT BE USED FOR MULTIPLE OR PROTOTYPE DEVELOPMENT WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.
- THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL COMPLETION/RECEIPT OF FINAL PAYMENT. SHOULD DEFECTS DEVELOP WITHIN THE GUARANTEE PERIOD DUE TO FAULTS IN MATERIALS AND/OR LABOR, THE CONTRACTOR SHALL MAKE REPAIRS AND COMPLETE ALL NECESSARY WORKS AS SOON AS POSSIBLE. SPECIFIC MATERIAL AND/OR MATERIAL ASSEMBLIES SUPPLIED BY INDEPENDENT MANUFACTURERS SHALL BE GUARANTEED AS FOLLOWS: (1) IF MANUFACTURER'S / FABRICATOR'S GUARANTEES / WARRANTIES EXCEED THE ONE YEAR STIPULATED PERIOD OF GUARANTEE / WARRANTY, THE SUCH GUARANTEES / WARRANTIES SHALL BE BINDING FOR THE DURATION STIPULATED IN EXCESS OF THE ONE YEAR STIPULATED PERIOD. (2) IF MANUFACTURER'S / FABRICATOR'S GUARANTEES / WARRANTIES ARE LESS THAN THE ONE YEAR STIPULATED PERIOD OF GUARANTEE / WARRANTY, THEN THE CONTRACTOR AND ASSOCIATED SUB-CONTRACTORS SHALL ASSUME THE GUARANTEES / WARRANTIES FOR MATERIALS AND MATERIAL ASSEMBLIES TO THE ONE YEAR STIPULATED PERIOD.

DIVISION 1 GENERAL REQUIREMENTS

SECTION 00700 GENERAL CONDITIONS

- QUALITY ASSURANCE
  - COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS THAT HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- INSTALLATION
  - INSTALL MATERIALS AND SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPROVED SUBMITTALS. INSTALL MATERIALS AND SYSTEMS IN PROPER RELATION WITH ADJACENT CONSTRUCTION. COORDINATE WITH WORK OF OTHER SECTIONS.
  - TEST FOR PROPER OPERATION. CLEAN OUT SYSTEM AND PROTECT WORK FROM DAMAGE.
  - RESTORE DAMAGED FINISH. CLEAN AND PROTECT WORK FROM DAMAGE.

SECTION 00800 SUPPLEMENTARY CONDITIONS

- DOCUMENT PRECEDENCE: THESE CONDITIONS SUPPLEMENT AND SUPERSEDE PORTION OF THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, WHICH IS INCLUDED BY REFERENCE ABOVE.
- CONTRACT DOCUMENTS
  - PRECEDENCE OF THE CONTRACT DOCUMENTS: THE MOST RECENTLY ISSUED DOCUMENT TAKES PRECEDENCE OVER PREVIOUS ISSUES OF THE SAME DOCUMENT. THE ORDER OF PRECEDENCE IS AS FOLLOWS, WITH THE HIGHEST AUTHORITY LISTED AS "1" - 1. THE AGREEMENT; 2. ADDENDA; 3. SUPPLEMENTARY CONDITIONS; 4. GENERAL CONDITIONS; 5. SPECIFICATIONS AND DRAWINGS
- RELATION OF SPECIFICATIONS AND DRAWINGS:
  - THE PARTS OF THE CONTRACT DOCUMENTS ARE EQUAL AUTHORITY AND PRIORITY. SHOULD THEY DISAGREE IN THEMSELVES, OR WITH EACH OTHER, PRICING OF THE WORK SHALL BE BASED ON THE MOST EXPENSIVE COMBINATION OF QUALITY AND QUANTITY OF WORK INDICATED. THE ARCHITECT WILL MAKE DETERMINATION OF THE APPROPRIATE METHOD OF PERFORMING THE WORK IN THE EVENT OF THE ABOVE-MENTIONED DISAGREEMENTS.
  - FIGURES TAKE PRECEDENCE OVER SCALE MEASUREMENTS.
  - LARGE SCALE DETAILS TAKE PRECEDENCE OVER SMALLER SCALE DETAILS.
  - ARCHITECTURAL DRAWINGS TAKE PRECEDENCE IN REGARD TO DIMENSIONS, WHEN IN CONFLICT WITH ELECTRICAL, MECHANICAL, AND STRUCTURAL DRAWINGS, EXCEPT FOR THE SIZE OF THE STRUCTURAL MEMBERS.
  - SPECIFICALLY TITLED DRAWINGS AND SECTIONS OF THE SPECIFICATIONS TAKE PRECEDENCE OVER INDICATION OF THE ITEM IN A COLLATERAL WAY.
  - EXISTING CONDITIONS TAKE PRECEDENCE OVER DRAWINGS AND SPECIFICATIONS FOR DIMENSIONS.
- ENUMERATION OF ITEMS: LISTS OF "WORK INCLUDED" AND "WORK EXCLUDED" ARE NOT INTENDED TO ENUMERATE EACH AND EVERY ITEM OF WORK OR APPURTENANCES REQUIRED, AND MUST BE USED IN CONJUNCTION WITH OTHER PORTIONS OF THE CONTRACT DOCS.
- CURRENT EDITION: WHEN THE WORK IS GOVERNED BY REFERENCE TO STANDARDS, BUILDING CODES, MANUFACTURER'S INSTRUCTIONS OR OTHER REFERENCE DOCUMENTS, THE CURRENT EDITIONS SHALL APPLY WHETHER OR NOT PROPER EDITION IS SPECIFIED. WHEN A NEWER EDITION BECOMES EFFECTIVE DURING THE EXECUTION OF A CONTRACT, THE EDITION THAT WAS CURRENT AT THE TIME THE CONTRACT WAS MADE SHALL APPLY UNLESS THE ARCHITECT PROPERLY AUTHORIZES A CHANGE. IF CHANGES MUST BE MADE BECAUSE OF GOVERNMENTAL AUTHORITIES, THE CONTRACT WILL BE APPROPRIATELY MODIFIED WITH ADJUSTMENTS IN THE CONTRACT SUM.

- OPTIONAL MATERIALS, BRANDS AND PROCESSES: WHEN MORE THAN ONE IS SPECIFIED FOR A PARTICULAR ITEM OF THE WORK, THE CHOICE SHALL BE CONTRACTOR'S. THE ARCHITECT'S SELECTION OF COLOR AND PATTERN WILL BE MADE FROM THE RANGE AVAILABLE WITHIN THE OPTION SELECTED BY THE CONTRACTOR, UNLESS THE ITEM IS SPECIFIED TO MATCH A SPECIFIC COLOR OR SAMPLE FURNISHED BY THE ARCHITECT.
- ALTERNATE MATERIALS: WHEN ONE PARTICULAR BRAND OR MANUFACTURER IS CALLED OUT, GENERAL CONTRACTOR MAY PROPOSE AN ALTERNATE BRAND FOR ARCHITECT & OWNER APPROVAL. ALL BRAND NAMES SHALL BE CONSIDERED AS A BASIS OF DESIGN. "OR APPROVED EQUAL" SHALL BE ASSUMED THROUGHOUT.
- REFERENCE STANDARDS: REFERENCE STANDARDS AND GUARANTEES THAT ARE MADE A PART OF THE REQUIREMENTS APPLY IN FULL, EXCEPT FOR THE FOLLOWING PORTIONS:
  - LESS STRINGENT REQUIREMENTS THAN THOSE GIVEN IN THE CONTRACT DOCS.
  - EXCLUSIONS, LIMITATIONS OR WAIVERS THAT ARE INCONSISTENT WITH THE CONTRACT DOCUMENTS.
- INDEMNIFICATION: THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND THE ARCHITECT AND THEIR AGENTS AND EMPLOYEES FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING FROM THE PERFORMANCE OF THE WORK, PROVIDED THAT ANY SUCH CLAIM, DAMAGE, LOSS, OR EXPENSE IS ATTRIBUTABLE TO BODILY INJURY, SICKNESS, DISEASE, OR DEATH OR TO INJURY TO OR DESTRUCTION OF TANGIBLE PROPERTY, (OTHER THAN THE WORK ITSELF) INCLUDING THE LOSS OF USE RESULTING THERE FROM, AND IS CAUSED IN WHOLE OR IN PART BY A NEGLIGENT ACT OR OMISSION OF THE CONTRACTOR, AND SUBCONTRACTOR, ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY.

SECTION 01100 PROCEDURES, CONTROLS, PAYMENTS

- PROVIDE COORDINATION OF WORK
  - SUPERVISORY PERSONNEL
  - PRECONSTRUCTION CONFERENCE
  - BI-WEEKLY MEETINGS (DISTRIBUTE MINUTES)
  - OTHER MEETINGS
- SUBMIT BI-WEEKLY AND SPECIAL REPORTS
- SUBMIT PROGRESS SCHEDULE, BAR-CHART TYPE, AND UPDATED MONTHLY
- PREPARE SUBMITTAL SCHEDULE; COORDINATE WITH PROGRESS SCHEDULE
- SUBMIT SCHEDULE OF VALUES
- SUBMIT SCHEDULE OF REQUIRED TESTS (PAYMENT AND RESPONSIBILITY)
- PERFORM SURVEYS; LAYING OUT WORK AND VERIFYING LOCATIONS DURING CONSTRUCTION
- SUBMIT RECORD DRAWINGS AND SPECIFICATIONS (TO BE MAINTAINED BY CONTRACTOR AS WORK PROGRESSES)
- SUBMIT PAYMENT REQUEST PROCEDURES
- PERFORM QUALITY CONTROL DURING INSTALLATION

SECTION 01300 ADMINISTRATIVE REQUIREMENTS

- THE OWNER RESERVES THE RIGHT TO OBSERVE THE WORK AT ANY TIME, AND TO OCCUPY THE PROJECT, OR A SPECIFIED AREA OF THE PROJECT, REGARDLESS OF WHETHER THE CONTRACT TIME HAS EXPIRED. IN SUCH AN EVENT, THE OWNER SHALL PAY AN APPROPRIATE SHARE OF THE UTILITIES, INSURANCE AND OTHER EXPENSES CAUSES BY EARLY OCCUPANCY.
- KEEP COMPLETE DOCUMENTS ON THE JOB, INCLUDING ONE COPY OF ALL DRAWINGS, SPECIFICATIONS, AND CONDITIONS OF THE CONTRACT, ADDENDA, CHANGE ORDERS, SHOP DRAWINGS, AND OTHER DOCUMENTS ISSUED DURING THE COURSE OF THE WORK. KEEP THESE DOCUMENTS IN GOOD CONDITION AND MAKE THEM AVAILABLE TO THE ARCHITECT. NOTE ALL MODIFICATIONS TO THE CONTRACT ON THE APPROPRIATE DOCUMENT FOR RECORD DRAWINGS.
- SECURE REQUIRED INSPECTION CERTIFICATES, AND TRANSMIT THEM TO THE OWNER AND THE ARCHITECT.
- FURNISH WRITTEN WARRANTIES USING THE FORM DIRECTED BY THE OWNER AND THE ARCHITECT.
  - THE OWNER MAY MAKE EMERGENCY REPAIRS TO THE WORK DURING THE WARRANTY PERIOD, TO PREVENT FURTHER DAMAGES.
  - THE CONTRACTOR SHALL PAY FOR SUCH REPAIRS WHEN NECESSITATED BY DEFECTS IN THE CONTRACTOR'S WORK.
- MAKE PROPER SUBSTITUTIONS WITHIN 15 DAYS AFTER THE AWARD OF THE CONTRACT, EXCEPT WHEN CIRCUMSTANCES OCCUR BEYOND THE CONTRACTOR'S CONTROL. SUBMIT REQUESTS FOR SUBSTITUTIONS IN WRITING, GIVING SUFFICIENT INFORMATION AND SAMPLES FOR EVALUATION WITH THE DIFFERENCES IN COST. IF ANY, SUBSTITUTIONS MUST BE APPROVED IN WRITING BEFORE THEY MAY BE USED. COORDINATE WITH SECTION 01350 SUBMITTALS, PRODUCTS, AND SUBSTITUTIONS.
- MISCELLANEOUS PROVISIONS
  - NOT-IN-CONTRACT WORK: PROVIDE UTILITIES, PLACEMENT, AND CONNECTION OF ITEMS NOTED "NOT-IN-CONTRACT" WHEN SHOWN OR NOTED.
  - LARGE SAMPLES OR COMPLETE UNITS SAMPLES: WILL BE REQUIRED ONLY WHEN CALLED FOR IN THE SPECIFICATIONS.
  - APPROVAL OF MATERIALS, SUPPLIERS, PROCESSES, OR SUBCONTRACTORS: THE ARCHITECT'S APPROVAL OR REVIEW OF ANY PORTIONS OF THE WORK DOES NOT IMPLY A WAIVER OF ANY CONTRACT REQUIREMENT.

SECTION 01350 SUBMITTALS, PRODUCTS, AND SUBSTITUTIONS

- COMPLY WITH PROJECT FORMAT FOR SUBMITTALS. CONTRACTOR SHALL MAINTAIN A DETAILED AND ACCURATE SHOP DRAWING AND PRODUCT SUBMITTAL CONTROL SYSTEM FOR THE PROJECT. THE SYSTEM SHALL BE UPDATED ON A WEEKLY BASIS AND REPORTED TO THE ARCHITECT FOR COORDINATION AT ALL BI-WEEKLY OWNER'S MEETINGS. THE SCHEDULE RESPONSIBILITY IS THAT OF THE CONTRACTOR AND NEGLIGENCE IN COORDINATING THE SHOP DRAWING PROCESS DOES NOT RELIEVE THE CONTRACTOR FROM THE CONTRACTUAL OBLIGATION OF SUBSTANTIAL COMPLETION.
- PROVIDE TYPES OF SUBMITTAL LISTED IN INDIVIDUAL SECTIONS AND NUMBER OF COPIES REQUIRED.
  - SHOP DRAWINGS, REVIEWED AND ANNOTATED BY THE CONTRACTOR (3 SETS OF PRINTS);
  - PRODUCT DATA (3 COPIES);
  - SAMPLES (2, PLUS EXTRA SAMPLES AS REQUIRED TO INDICATE RANGE OF COLOR, FINISH, AND TEXTURE TO BE EXPECTED);
  - MOCK-UPS (AS REQUIRED BY INDIVIDUAL SECTIONS);
  - INSPECTION AND TEST REPORTS (3 COPIES);
  - WARRANTIES (3 COPIES);
  - CLOSEOUT SUBMITTALS (3 COPIES);
  - PROJECT PHOTOGRAPHS: RECORD THE PROGRESS ON A REGULAR BASIS WITH DIGITAL PHOTOS, AT BEGINNING AND END OF CONSTRUCTION. COMPILE A DIGITAL ALBUM WITH DATES WHEN THE PHOTOS WERE TAKEN ON A CD AND GIVE TO OWNER WITH THE CLOSEOUT DOCUMENTS.
- PROVIDE REQUIRED RESUBMITTALS; PROVIDE DISTRIBUTION OF APPROVED COPIES
- SAMPLES AND SHOP DRAWING SHALL BE PREPARED SPECIFICALLY FOR THIS PROJECT. SHOP DRAWINGS SHALL INCLUDE DIMENSIONS AND DETAILS, INCLUDING ADJACENT CONSTRUCTION.
- PROVIDE WARRANTIES AS SPECIFIED; WARRANTIES SHALL NOT LIMIT LENGTH OF TIME FOR REMEDY OF DAMAGES OWNER MAY HAVE LEGAL STATUTE. MANUFACTURER AND CONTRACTOR SHALL SIGN WARRANTIES
- PROVIDE PRODUCTS SELECTED OR APPROVED EQUAL. PRODUCTS SUBMITTED FOR SUBSTITUTION SHALL BE SUBMITTED WITH ACCEPTABLE DOCUMENTATION, AND INCLUDE COSTS OF SUBSTITUTION INCLUDING RELATED WORK.
- SUBSTITUTIONS SHALL BE SUBMITTED PRIOR TO AWARD OF CONTRACT, UNLESS OTHERWISE ACCEPTABLE.

SECTION 10000 QUALITY REQUIREMENTS

- JOIN MATERIALS TO UNIFORM, ACCURATE FIT SO THEY MEET WITH NEAT STRAIGHT LINES, FREE OF SMEARS OR OVERLAPS.
- INSTALL EXPOSED MATERIALS APPROPRIATELY LEVEL, PLUMB, AND AT ACCURATE RIGHT ANGLES WITH ADJOINING MATERIALS.
- USE THE FASTENINGS OF SUFFICIENT STRENGTH AND SPACING SO THE MATERIALS JOINED WILL BE RETAINED EXCEED THE STRENGTH OF THE MATERIALS JOINED.
- FOLLOW SUPPLIER'S INSTRUCTIONS. WHEN SUCH INSTRUCTIONS ARE IN CONFLICT WITH THE CONTRACT DOCUMENTS, NOTIFY THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING. KEEP A COPY OF THE MANUFACTURER'S INSTRUCTIONS ON THE JOB AND MAKE AVAILABLE TO THE ARCHITECT.
- REPAIR OR REPLACE DAMAGED PORTIONS OF THE BUILDING CONTENTS, UNDER WARRANTY, WHEN DAMAGES RESULT FROM FAULTY MATERIAL OR NEGLIGENT WORKMANSHIP.
- WARRANT THAT MODIFICATIONS OR SUBSTITUTIONS SUGGESTED BY THE CONTRACTOR WILL GIVE SATISFACTORY RESULTS AND THAT THEY WILL BE EQUAL OR SUPERIOR TO THE SPECIFIED ITEM METHOD UNLESS SHORTCOMINGS ARE SPECIFICALLY LISTED IN THE REQUEST FOR MODIFICATIONS OR SUBSTITUTIONS.
- ARCHITECT: THE ARCHITECT'S PRESENCE AT THE PROJECT SITE DOES NOT IMPLY CONCURRENCE OR APPROVAL OF THE WORK. THE CONTRACTOR SHALL CALL SPECIFIC ITEMS TO THE ARCHITECT'S ATTENTION IN WRITING IF HE WISHES TO KNOW THE ARCHITECT'S OPINION.

SECTION 10500 TEMPORARY FACILITIES AND CONTROLS

- THE CONTRACTORS WILL ESTABLISH LAY DOWN AREAS ON SITE FOR CONSTRUCTION PURPOSES. THE OWNER SHALL APPROVE THE LOCATION OF THESE AREAS.
- EQUIPMENT OWNED BY PUBLIC UTILITIES REMAINS THE PROPERTY OF THOSE UTILITIES. COOPERATE WITH AND PROVIDE REASONABLE ACCESS TO THE UTILITY COMPANIES FOR THE REMOVAL OR RELOCATION OF SUCH EQUIPMENT.
- PROVIDE TEMPORARY SERVICES AND UTILITIES: WATER (POTABLE AND NON-POTABLE), SEWER SEDIMENT, POWER, METERING, TELEPHONE, ETC.
- PROVIDE CONSTRUCTION FACILITIES: CONSTRUCTION EQUIPMENT, DEWATERING AND PUMPING, ENCLOSURE, HEATING, LIGHTING, ACCESS, ROADS, ETC.
- PROVIDE SECURITY AND PROTECTION REQUIREMENTS: FIRE EXTINGUISHERS, SITE ENCLOSURE FENCE, BARRICADES, WARNING SIGNS, LIGHTS, BUILDING ENCLOSURE AND LOCK-UP, ENVIRONMENTAL PROTECTION, PEST CONTROL, ETC.
- PROVIDE PERSONNEL SUPPORT FACILITIES: CONTRACTOR'S FIELD OFFICE, SANITARY FACILITIES, DRINKING WATER, PROJECT IDENTIFICATION SIGN, CLEANING AND TRASH REMOVAL, ETC.
- PROVIDE FOR TEMPORARY TRASH DUMPSTER SERVICE AND LEGAL DISPOSAL OF TRASH ON A REGULAR BASIS. KEEP THE SITE CLEANED AND A SAFE WORKING CONDITION ON A REGULAR BASIS.
- PROVIDE FOR A FINAL CLEANING PRIOR TO OCCUPANCY BY THE SPACE. THE PRELIMINARY AND FINAL CLEANINGS SHALL INCLUDE VACUUMING CARPETS, MIPING DOWN MILLWORK, CLEANING WINDOW INTERIORS AND EXTERIORS, CLEANING RESTROOMS, ETC.

SECTION 10600 PRODUCT REQUIREMENTS

- MATERIALS SHALL HAVE THE FOLLOWING CHARACTERISTICS:
  - NEW AND HIGH QUALITY SUITED TO THE USE INTENDED, EXCEPT WHEN SPECIFICALLY NOTED AS "USED".
  - SUITABLE FOR THE FUNCTION INTENDED.
  - CORRESPONDING IN QUALITY TO RELATED MATERIALS IN THE ABSENCE OF A COMPLETE SPECIFICATION.
  - OF GOOD APPEARANCE WHERE EXPOSED TO VIEW.
  - OF ONE MANUFACTURER OR SOURCE FOR THE SAME SPECIFIC PURPOSES.
  - PLAINLY MARKED AND DELIVERED TO THE SITE IN THEIR ORIGINAL UNOPENED CONTAINERS WHEN THE NATURE OF THE MATERIALS IS SUITABLE FOR CONTAINERS.
- APPROVAL OF MATERIALS, SUPPLIERS, PROCESSES, OR SUBCONTRACTORS: THE ARCHITECT'S APPROVAL OR REVIEW OF ANY PORTIONS OF THE WORK DOES NOT IMPLY A WAIVER OF ANY CONTRACT REQUIREMENT.

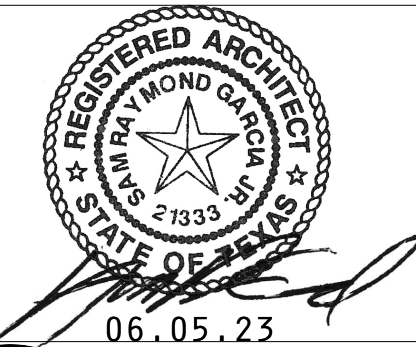
SECTION 10700 EXECUTION REQUIREMENTS

- COMMENCE THE WORK WHEN AN OWNER AUTHORIZED WRITTEN WORK ORDER OR LETTER OF INTENT HAD BEEN ISSUED WITH INSTRUCTIONS TO PROCEED, PROVIDED OTHER REQUIREMENTS HAVE BEEN MET.
- PROVIDE SAFE, REASONABLE CONVENIENT ACCESS FACILITIES TO THE WORK FOR THE OWNER, THE ARCHITECT, AND GOVERNMENTAL INSPECTORS.
- THE CONTRACTOR SHALL FURNISH BENCHMARKS AS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LAYOUTS RELATED TO HIS WORK INCLUDING PROPERTY & BUILDING CORNERS AND SHALL REPORT ANY DISCREPANCY TO THE OWNER IMMEDIATELY.
- ITEMS TO BE TESTED AT OWNER'S DISCRETION: CONCRETE, EARTH FILL UNDER BUILDING AND PAVEMENT, STEEL WELDS AND BOLTING, ROOF AND OTHER ITEMS AT OWNER OR ARCHITECT'S DISCRETION.
- TESTING LABORATORY SERVICES
  - OWNER WILL SELECT INDEPENDENT TESTING LABORATORY TO INSPECT AND TEST MATERIALS AND WORK.
  - OWNER PAYS FOR SERVICES, PROVIDED MATERIAL TESTED MEETS SPECIFICATION REQUIREMENT. CONTRACTOR WILL PAY FOR INITIAL TESTS OF MATERIALS NOT MEETING REQUIREMENTS AND ALL SUBSEQUENT TESTS INCLUDING FINAL TEST INDICATING COMPLIANCE.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A SIGN-IN LOG AT THE SITE OFFICE INDICATING THE DATE, TIME, AND NAME OF EACH TESTING LABORATORY REPRESENTATIVE WHO VISITS THE SITE. THE OWNER AND/OR ARCHITECT WILL USE THIS LOG TO VERIFY TIME ELAPSED ON THE SITE FOR THE TESTING LABORATORY'S REPRESENTATIVES AND WILL CHECK IT AGAINST INVOICES FROM THE TESTING LABORATORY.
- HALT THE WORK, WHEN NOTIFIED OF A PROPOSED CHANGE OR IF UNSATISFACTORY RESULTS ARE ANTICIPATED. PROCEED ONLY AFTER RECEIVING ADDITIONAL INSTRUCTIONS FROM THE ARCHITECT.
- ARRANGE TO ACCOMMODATE NOT IN CONTRACT WORK. WHEN INFORMATION IS INADEQUATE, REQUEST FURTHER INFORMATION BEFORE PROCEEDING.
- NOTIFY THE OWNER OF POSSIBLE DAMAGE CLAIMS IMMEDIATELY UPON KNOWLEDGE OF POSSIBLE CLAIMS THAT MIGHT CAUSE A REDUCTION BELOW 75% OF THE AGGREGATE LIMITS OF ANY POLICY.

SECTION 10800 PRODUCT CLOSEOUT

- PROVIDE PREREQUISITES TO SUBSTANTIAL COMPLETION: PUNCH LIST, SUPPORTING DOCUMENTATION, WARRANTIES, CERTIFICATIONS, OCCUPANCY PERMIT, START-UP, AND TESTING OF BUILDING SYSTEMS, CHANGEOVER OF LOCKS, ETC.
- PROVIDE PREREQUISITES TO FINAL ACCEPTANCE: FINAL PAYMENT REQUEST WITH SUPPORTING AFFIDAVITS, COMPLETED PUNCH LIST, ETC.
- PROVIDE RECORD DOCUMENT SUBMITTALS:
  - ONE BLUE LINE SET OF CONST. DOCS. SHOWING RECORD OF AS BUILT INFORMATION
  - ONE SET OF ALL SITE PLANS SHOWING THE LOCATIONS OF ALL THE UNDERGROUND UTILITY INFORMATION IDENTIFIED BY DIMENSIONS
  - ONE CD OF CONSTRUCTION PROGRESS PHOTOS
- PROVIDE CLOSEOUT PROCEDURES: TURNOVER TO OWNER'S PERSONNEL, FINAL CLEANING AND TOUCH-UP, REMOVAL OF TEMPORARY FACILITIES, ETC.

1	PERMIT SET	06/05/23
No.	DESCRIPTION	DATE



06.05.23

SAN GARCIA ARCHITECT  
1200 AUBURN AVE.,  
SUITE 280  
MCALLEN, TX 78504  
(956) 631 - 8327  
INFO@SANGARCIAARCHITECT.COM

**KHIT**  
CHIROPRACTIC  
WELLNESS

6151 E. POST ROAD,  
KYLE, TX 78640

2022-008 06.05.23

GENERAL NOTES

G1.01



- ALL CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE FOLLOWING REGULATIONS AND SPECIFICATIONS. THE FIRST LISTED WILL HAVE PRIORITY OVER THOSE LISTED BELOW:
 

PERMITS ISSUED FOR PROJECT BY ANY REGULATORY AGENCIES CITY OF KYLE CONSTRUCTION STANDARDS. PLANS FOR THIS PROJECT.	TEXAS COMMISSION ON ENVIRONMENTAL QUALITY REGULATIONS.
--	--
- PRIOR TO THE BEGINNING OF CONSTRUCTION, THE DEVELOPER SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE. PRE-CONSTRUCTION SHALL BE SCHEDULED WITH THE PW OFFICE, 512-262-3024 AND HELD AT THE PW FACILITY LOCATED AT 520 E ARR160. KYLE, TEXAS REPRESENTATIVES FROM THE FOLLOWING ORGANIZATIONS SHALL BE INVITED:
 

CITY OF KYLE STAFF INCLUDING THE DIRECTOR OF PUBLIC WORKS, CITY ENGINEER AND THE PUBLIC WORKS INSPECTOR. CONTRACTOR. DESIGN ENGINEER. ELECTRIC, GAS, PHONE AND CABLE UTILITY REPRESENTATIVES, IF APPROPRIATE.	TEXAS DEPARTMENT OF TRANSPORTATION, ENTRY ONTO A HIGHWAY. U.S. CORPS OF ENGINEERS, SECTION 404, FOR CONSTRUCTION IN FLOOD PLAIN. COMPLIANCE WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) CONSTRUCTION GENERAL PERMIT (TXR150000). TEXAS DEPARTMENT OF LICENSING AND REGULATION FOR ACCESSIBILITY. TCEQ FOR SIGNIFICANT WATER AND WASTEWATER FACILITIES, INCLUDING LIFT STATIONS.
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- BENCHMARKS FOR THIS PROJECT ARE DESCRIBED AS FOLLOWS: SQUARE IN THE NORTHEAST END OF CONCRETE SIDEWALK ,#4.4' SOUTHWEST OF SUBJECT SITE'S SOUTHWEST PROPERTY CORNER ELEVATION = 662.26' NAVD88
- THE STREET PAVEMENT THICKNESS IS BASED ON A REPORT BY \_\_\_\_\_ DATED \_\_\_\_\_, 20\_\_\_\_ WHICH RECOMMENDS THE FOLLOWING STREET SECTIONS:
 

STREET CLASSIFICATION	STREET WIDTH	LIME STABILIZATION OF SUBGRADE	BASE HOT MIX THICKNESS	ASPHALT
- ANY EXISTING PAVEMENT, CURBS, AND/OR SIDEWALKS DAMAGED OR REMOVED SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE BEFORE ACCEPTANCE OF THE SUBDIVISION.
- THE CONTRACTOR SHALL GIVE THE CITY OF KYLE (PHONE NO. 512-262-3024), 48 HOURS NOTICE PRIOR TO CONNECTING TO ANY EXISTING CITY UTILITY LINE.
- SIDEWALKS FRONTING PUBLIC RIGHT-OF-WAY LAND OR INCLUDING ALL SIDEWALK RAMPS REQUIRED BY CITY ORDINANCE SHOWN ON THESE PLANS SHALL BE CONSTRUCTED WITH THIS PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR WARNING AND SAFETY SIGNS, BARRICADES AND TRAFFIC CONTROL DURING CONSTRUCTION. ALL ROAD SIGNAGE SHALL CONFORM TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE CITY OF KYLE FOR THE USE OF ALL WATER FOR CONSTRUCTION.
- ALL FILL OR CUT ON LOTS WHICH IS GREATER THAN TWELVE (12) INCHES SHALL BE SHOWN ON THE PLANS AND SHALL CONFORM TO THE FOLLOWING:
 

FILL MATERIAL SHALL NOT CONTAIN ANY ROCKS HAVING A MAXIMUM DIMENSION GREATER THAN SIX (6) INCHES. FILL MATERIAL SHALL HAVE AT LEAST FIFTY PERCENT (50%) PASSING THE NO. 4 SIEVE. FILL MATERIAL SHALL BE REASONABLY FREE OF ROOTS, TRASH, CONCRETE RUBBLE AND OTHER ORGANIC MATERIAL. COMPACTION SHALL BE TO NINETY-FIVE PERCENT (95%) OF MAXIMUM LABORATORY DENSITY DETERMINED IN ACCORDANCE WITH THE ASTM D 698. THE MATERIAL SHALL BE WITHIN THREE (3) PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT DURING COMPACTION. PLACEMENT SHALL BE IN LIFTS NOT EXCEEDING EIGHT (8) INCHES AFTER COMPACTION. EACH COMPACTED LIFT SHOULD BE INSPECTED AND/OR TESTED FOR DENSITY COMPLIANCE BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING THE NEXT LIFT. THE FILL AREA SHOULD EXTEND AT LEAST 24 INCHES (36 INCHES ON FILLS OVER SIX (6) FEET IN HEIGHT) BEYOND THE BACK OF CURB OR FOUNDATION LINE BEFORE SLOPING DOWNWARD ON NOT MORE THAN THREE (3) TO ONE (1) SLOPE TO NATURAL SOIL. BACKSLOPES SHALL BE WELL COMPACTED. MAXIMUM FILL HEIGHTS SHOULD NOT EXCEED TEN (10) FEET WITHOUT ENGINEERING CONSULTATION.	EROSION AND SEDIMENTATION CONTROL. 1. AFTER THE PRE-CONSTRUCTION MEETING IS HELD, THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND FENCING FOR AREAS OUTSIDE OF THE CONSTRUCTION AREA PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION). 2. THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS, AND AFTER SIGNIFICANT RAINFALL EVENTS TO ENSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES. 3. PRIOR TO FINAL ACCEPTANCE BY THE CITY, HAUL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED. ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING DEBRIS SHALL BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES. 4. FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE CITY INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES. 5. PERMANENT EROSION CONTROL: ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW: A. A MINIMUM OF FOUR (4) INCHES OF TOPSOIL SHALL BE PLACED IN ALL DRAINAGE CHANNELS (EXCEPT ROCK), AND BETWEEN THE CURB AND RIGHT-OF-WAY. B. TRASH, WOOD, BRUSH, STUMPS, ROCKS OVER 1 1/2 INCHES IN SIZE AND OTHER OBJECTIONABLE MATERIAL ENCOUNTERED SHALL BE REMOVED AND DISPOSED OF AS DIRECTED BY THE ENGINEER OR INSPECTOR PRIOR TO BEGINNING OF WORK REQUIRED BY THIS ITEM. GRASS AND OTHER HERACIOUS PLANT MATERIALS MAY REMAIN. LARGE CLUMPS SHALL BE BROKEN UP. C. THE SEEDING FOR PERMANENT EROSION CONTROL SHALL BE APPLIED OVER AREAS DISTURBED BY CONSTRUCTION AS FOLLOWS: BROADCAST SEEDING: (I) FROM OCTOBER TO FEBRUARY, SEEDING SHALL BE WITH ONE (1) POUND PER 1,000 SQUARE FEET OF UNHULLED BERMU DA OR THREE (3) POUNDS PER 1,000 SQUARE FEET OF WINTER RYE. (II) FROM MARCH TO SEPTEMBER, SEEDING SHALL BE WITH HULLED BERMU DA AT A RATE OF ONE (1) POUND PER 1,000 SQUARE FEET. FERTILIZER, IF USED, SHALL BE SLOW RELEASE GRANULAR OR PALETTE TYPE, AND SHALL HAVE AN ANALYSIS OF 15-15-15. AND SHALL BE APPLIED AT THE RATE OF ONE (1) POUND PER 1,000 SQUARE FEET, ONCE AT THE TIME OF PLANTING, AND AGAIN ONCE DURING THE TIME OF ESTABLISHMENT. MULCH TYPE USED SHALL BE STRAW OR HAY APPLIED AT A RATE OF 45 POUNDS PER 1,000 SQUARE FEET. HYDRAULIC SEEDING: (I) FROM OCTOBER TO FEBRUARY, SEEDING SHALL BE WITH ONE (1) POUND PER 1,000 SQUARE FEET OF UNHULLED BERMU DA, OR THREE (3) POUNDS PER 1,000 SQUARE FEET OF WINTER RYE. (II) FROM MARCH TO SEPTEMBER, SEEDING SHALL BE WITH HULLED BERMU DA AT A RATE OF ONE (1) POUND PER 1,000 SQUARE FEET. FERTILIZER, IF USED, SHALL BE A WATER SOLUBLE FERTILIZER WITH AN ANALYSIS OF 15-15-15 AT A RATE OF 1.5 POUNDS PER 1,000 SQUARE FEET. MULCH TYPE SHALL BE HAY, STRAW OR MULCH APPLIED AT A RATE OF 45 POUNDS PER 1,000 SQUARE FEET, WITH A SOIL TACKIFIER AT A RATE OF 1.4 POUNDS PER 1,000 SQUARE FEET. D. THE PLANTED AREA SHALL BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK TO A DEPTH OF SIX (6) INCHES. THE IRRIGATION SHALL OCCUR AT 10-DAY INTERVALS DURING THE FIRST TWO (2) MONTHS. RAINFALL OCCURRENCES OF 1/4 INCH OR MORE SHALL POSTPONE THE WATERING SCHEDULE FOR TEN (10) DAYS. E. RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1 INCH HIGH WITH 85% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 20 SQUARE FEET EXIST. F. A SOIL RETENTION BLANKET SHALL BE PLACED ON ALL SLOPES EQUAL TO OR GREATER THAN 3:1. ALL SOIL RETENTION BLANKETS MUST BE LISTED ON THE TxDOT APPROVED PRODUCTS LIST OR APPROVED BY THE CITY.
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- CONTRACTOR SHALL GIVE CITY INSPECTOR 36 HOURS NOTICE OF THE NEED FOR MATERIALS TESTING. ALL TESTING WILL BE ARRANGED AND PAID FOR BY THE CONTRACTOR. THE CITY SHALL RECEIVE A COPY OF TEST RESULTS.
- CONTRACTOR OR THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING AND CUT SHEETS FOR PIPE LINES LAID ON GRADE AND ROAD CONSTRUCTION. CUT SHEETS SHALL BE DELIVERED TO THE CITY INSPECTOR 36 HOURS PRIOR TO CONSTRUCTION.
- IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS, ALL TRENCHES OVER 5 FEET IN DEPTH IN EITHER HARD AND STABLE OR SOFT AND UNSTABLE SOIL SHALL BE SLOPED, SHORED, SHEETED, BRACED OR OTHERWISE SUPPORTED. FURTHERMORE, ALL TRENCHES LESS THAN 5 FEET IN DEPTH SHALL ALSO BE EFFECTIVELY PROTECTED WHEN HAZARDOUS GROUND MOVEMENT MAY BE EXPECTED. TRENCH SAFETY SYSTEMS TO BE UTILIZED FOR THIS PROJECT SHALL BE PROVIDED BY THE CONTRACTOR.  
IN ACCORDANCE WITH THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS, WHEN EMPLOYEES ARE REQUIRED TO BE IN TRENCHES 4 FEET DEEP OR MORE, ADEQUATE MEANS OF EXIT, SUCH AS A LADDER OR STEPS, MUST BE PROVIDED AND LOCATED SO AS TO REQUIRE NO MORE THAN 25 FEET OF LATERAL TRAVEL.
- NO TREES OVER 6 INCHES IN DIAMETER SHALL BE REMOVED UNLESS DESIGNATED TO BE REMOVED ON THE APPROVED PLANS. ALL TREE LIMBS REMOVED OR TRIMMED SHALL BE VERTICALLY CUT AND DRESSED.
- ALL CONSTRUCTION ACTIVITIES SHALL BE CONFINED TO PROPERTY OWNED BY THE DEVELOPER OR PUBLIC RIGHT-OF-WAY AND EASEMENT UNLESS WRITTEN PERMISSION IS OBTAINED BY THE CONTRACTOR FROM THE PROPERTY OWNER AFFECTED.
- THE CITY OF KYLE DOES NOT ALLOW ANY BLASTING WITHIN THE CITY LIMITS.

**TYPICAL SEQUENCE OF CONSTRUCTION**

- HOLD PRE-CONSTRUCTION CONFERENCE.
- NO CLEARING OR ROUGH GRADING MAY BE DONE UNTIL THE APPROVED EROSION AND SEDIMENTATION CONTROLS ARE IN PLACE.
- INSTALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS AND STABILIZATION CONSTRUCTION ENTRANCE, IF REQUIRED, IN THE APPROVED PLANS.
- ROUGH GRADE STREETS.
- INSTALL ALL UTILITIES IN RIGHTS-OF-WAY.
- RE-GRADE AND COMPACT SUBGRADE. MEET WITH CITY INSPECTOR AND DESIGN ENGINEER TO DETERMINE AREAS OF DIFFERING STREET SECTION THICKNESS OR SUBGRADE PREPARATION IF CALLED FOR IN THE GEOTECHNICAL REPORT.
- INSURE ALL UNDERGROUND UTILITY CROSSINGS ARE IN PLACE INCLUDING SLEEVES FOR DRY UTILITIES AND INSTALL FIRST COURSE OF BASE.
- INSTALL CURBS, RIP-RAP AND MISCELLANEOUS CONCRETE.
- INSTALL SECOND COURSE OF BASE.
- LAY ASPHALT.
- FINAL GRADE ANY DITCHES AND PARKWAYS.
- REVEGETATE ALL DISTURBED AREAS. DISPOSE OF SPOIL IN AN APPROVED MANNER.
- SCHEDULE A FINAL INSPECTION WITH CITY.
- AFTER ACCEPTANCE OF CONSTRUCTION, TEMPORARY EROSION CONTROLS MAY BE REMOVED.

**MINIMUM CRITERIA FOR ACCEPTANCE**

- ALL CONSTRUCTION IS COMPLETE INCLUDING DRY UTILITIES AND RESTORATION TO THE CRITERIA.
- ALL CITY OF KYLE FEES PAID AND MAINTENANCE BOND POSTED.
- ALL RECORDS OF CONSTRUCTION TESTING AND RECORD DRAWINGS SHOWING ANY CHANGES DURING CONSTRUCTION PROVIDED TO THE CITY OF KYLE.
- ALL STREET LIGHTING, SIGNS AND PAVEMENT MARKINGS SHALL BE IN PLACE.

**WATER AND WASTEWATER NOTES**

- PIPE MATERIAL FOR WATER MAINS SHALL BE PVC (AWWA C-900, DR-14) OR DUCTILE IRON (AWWA C-151, CLASS 350).
- PIPE MATERIAL FOR GRAVITY SEWER SHALL BE SDR-36 PVC IF LOCATED GREATER THAN 9 FEET FROM A WATERLINE, OTHERWISE SHALL BE PRESSURE RATED PIPE.
- BEDDING FOR FLEXIBLE GRAVITY PIPE (I.E. SDR-36 PVC) SHALL CONFORM TO ASTM 2321 CLASS 1 MATERIAL, I.E., 3/4" - 1" CLEAN ANGULAR CRUSHED ROCK.
- CITY INSPECTOR SHALL OBSERVE ALL TAPS TO CITY UTILITY LINES AND PRIOR TO ANY UTILITY RELOCATION.
- CONTRACTOR SHALL DISINFECT AND PRESSURE TEST ALL WATER LINES AND PERFORM LEAK AND DEFLECTION TESTS ON GRAVITY WASTEWATER LINES AT HIS EXPENSE.
- THE CITY INSPECTOR SHALL BE NOTIFIED 36 HOURS PRIOR TO ALL UTILITY LINE TESTING. CONTRACTOR, WITH CITY STAFF PRESENT, IS RESPONSIBLE FOR SAMPLING. CITY STAFF WILL TRANSPORT BACTERIOLOGICAL TEST SAMPLES TO THE STATE DEPARTMENT OF HEALTH. ALL TEST RESULTS, WHETHER PASSING OR FAILING, SHALL BE PROVIDED TO THE CONTRACTOR. MANDREL DEFLECTION TESTING SHALL NOT BE CONDUCTED UNTIL THE PIPES HAVE BEEN BACKFILLED FOR 30 DAYS.
- FIRE HYDRANTS SHALL BE MUELLER SUPER CENTURIUM OR APPROVED EQUIV.
- THE CONTRACTOR SHALL SUBMIT TO THE DESIGN ENGINEER, DESCRIPTIVE INFORMATION FOR MATERIALS TO BE USED ON THE PROJECT FOR REVIEW. A COPY OF THE ACCEPTED MATERIAL SHALL ALSO BE PROVIDED TO THE CITY OF KYLE TEN DAYS PRIOR TO THE INSTALLATION OF UTILITIES.
- PRESSURE TAPS SHALL BE IN ACCORDANCE WITH THE CITY OF KYLE. THE CONTRACTOR SHALL DO ALL EXCAVATION ETC., AND SHALL FURNISH, INSTALL AND AIR TEST THE SLEEVE AND VALVE. A CITY OF KYLE INSPECTOR MUST BE PRESENT WHEN TAP IS MADE. "SIZE ON SIZE" TAPS WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE DIRECTOR OF PUBLIC WORKS. CONCRETE BLOCKING SHALL BE PLACED BEHIND AND UNDER ALL TAP SLEEVES TWENTY-FOUR (24) HOURS PRIOR TO MAKING THE WET TAP.
- ONE CALL NOTE - CONTRACTOR MUST CALL CITY OF KYLE (512-262-3024) FOR LOCATION OF CITY UTILITIES.
- 200 PSI, BLACK, POLYETHYLENE TUBING SHALL BE USED ON WATER SERVICES.
- ALL MANHOLES SHALL BE INTERNALLY COATED TO CITY OF AUSTIN SPECIFICATIONS, INCLUDING THE TIE-IN MANHOLE, UNLESS WAIVED BY THE DIRECTOR OF PUBLIC WORKS.
- ALL PUBLIC MANHOLE COVERS WITHIN THE CITY LIMITS OF KYLE SHALL HAVE THE CITY OF KYLE LOGO.
- ALL GATE VALVE OPERATING NUT OR VALVE EXTENTION NEEDS TO BE 24" TO FINAL GRADE.

**GRADING NOTES:**

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS, THE CITY OF KYLE DRAINAGE AND EROSION CONTROL DESIGN MANUAL, AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS.
- THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION. IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE SILT FENCES (OR OTHER METHODS APPROVED BY THE ENGINEER AND CITY) AS REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL EROSION, CONSERVATION, AND SILTATION REQUIREMENTS. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION.
- BEFORE ANY EARTHWORK IS DONE, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF PAVEMENT AND OTHER ITEMS ESTABLISHED BY THE PLANS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
- TESTING OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY AN APPROVED AGENCY FOR TESTING MATERIALS. THE NOMINATION OF THE TESTING LABORATORY AND THE PAVEMENT OF SUCH TESTING SERVICES SHALL BE MADE BY THE CONTRACTOR. THE OWNER SHALL APPROVE THE LABORATORY NOMINATED TO DO THE TESTING OF MATERIALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SHOW BY STANDARD TESTING PROCEDURES THAT THE WORK CONSTRUCTED DOES MEET THE REQUIREMENTS OF THE CITY'S SPECIFICATION AND THESE PLANS.
- UNLESS OTHERWISE NOTED, PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN IN PAVED AREAS REFLECT TOP OF PAVEMENT SURFACE.
- PROPOSED CONTOURS ARE APPROXIMATE ONLY. PROPOSED SPOT ELEVATIONS AND DESIGNATED GRADIENT ARE TO BE USED IN CASE OF DISCREPANCY.
- THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER, OR BY OTHER MEANS APPROVED BY THE CITY AND ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.
- ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE BY THE GRADING CONTRACTOR AT HIS EXPENSE.
- REFERENCE STRUCTURAL DRAWINGS AND SPECIFICATIONS AND GEOTECHNICAL REPORT FOR BUILDING PAD AND PAVING SUBGRADE INFORMATION.
- THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
- AFTER PLACEMENT OF SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST AND OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE INTENDED STRUCTURE TO CONVEY STORM RUNOFF. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER IF ANY DISCREPANCIES ARE DISCOVERED.
- RETAINING WALLS SHOWN FOR GRADING INTENT ONLY AND NOT TO BE USED FOR CONSTRUCTION OF RETAINING WALLS OR PLACEMENT OF SELECT FILL. TW/BW ELEVATIONS ARE APPROXIMATE TOP-OF-GRADE ELEVATIONS ONLY. SEE RETAINING WALL DESIGN PLANS BY STRUCTURAL ENGINEER AND GEOTECHNICAL ENGINEERING REPORT (AND ADDENDA THERETO) FOR DETAILED WALL DESIGN AND FILL PLACEMENT METHODS.
- GRADING CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND/OR RELOCATIONS.
- NO TREE SHALL BE REMOVED OR DAMAGED WITHOUT PRIOR AUTHORIZATION OF THE OWNER OR OWNER'S REPRESENTATIVE. EXISTING TREES SHALL BE PRESERVED WHENEVER POSSIBLE.
- CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL CONTROL POINTS PRIOR TO COMMENCING CONSTRUCTION AND SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BEFORE CONSTRUCTION COMMENCES.
- REFER TO DIMENSION CONTROL & SITE PLAN FOR HORIZONTAL DIMENSIONS.
- REFER TO EROSION CONTROL PLAN FOR EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND APPROVALS PRIOR TO CONSTRUCTION.

**COPE ENGINEERING GENERAL NOTES**

- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THESE PLANS AND THE CITY OF KYLE STANDARD SPECIFICATIONS AND REGULATIONS. AS WELL AS ALL APPLICABLE SAFETY CODES AND INSPECTION REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OFFSITE OF ANY EXISTING PAVING AND STRUCTURAL REMOVED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN NEAT AND ACCURATE CONSTRUCTION RECORD PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION SURVEYING.
- ALL EXISTING TRAFFIC AND STREET SIGNS DISTURBED SHALL BE REINSTALLED WHERE APPLICABLE BY THE CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING STRUCTURES, UTILITIES, AND SERVICES PRIOR TO EXCAVATION AND CONSTRUCTION.
- THE LOCATION AND DEPTHS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE DONE TO EXISTING UTILITIES WHETHER SHOWN ON THE PLANS OR NOT, AND TO PROTECT THE SAME DURING CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTHS OF UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION
 

TEXAS STATE WIDE ONE CALL LOCATOR	1-800-545-6005
CITY OF KYLE PUBLIC SERVICE	512-262-3024
KYLE (WATER & SEWER)	956-585-2791
SOUTHWESTERN BELL	888-211-4727
SPRINT COMMUNICATIONS	877-372-0391
PEDERNALES ELECTRIC	
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH UTILITY COMPANIES FOR THE RELOCATION OF ANY EXISTING UTILITIES.
- CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND POWER LINES.
- THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS SHOWN ON THE PLANS AND REVIEW ALL FIELD CONDITIONS, INCLUDING GRADES AND UTILITY FLOW LINES, AND SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, UTILITIES, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES DUE TO HIS/HER CONSTRUCTION ACTIVITIES AT NO COST TO THE OWNER.
- ALL EXISTING SHRUBS, TREES, PLANTING, AND OTHER VEGETATION, OUTSIDE OF PROPERTY LIMITS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH EQUIVALENT MATERIAL BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL SILT AND DEBRIS OFFSITE FROM THE EXISTING ROADWAYS AND PROJECT SITE THAT ARE A RESULT OF THE PROPOSED CONSTRUCTION AS REQUESTED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY AND THE CITY OF KYLE. AT A MINIMUM, THIS TASK SHOULD OCCUR ONCE A WEEK.
- CONNECTIONS TO EXISTING FACILITIES SHALL BE ACCOMPLISHED IN A NEAT AND PROFESSIONAL MANNER. WHEN FIELD CONDITIONS INDICATE ANY VARIANCE FROM DETAILED METHODS, THE CONTRACTOR SHALL PROVIDE COMPREHENSIVE AND DETAILED DRAWINGS (FOR APPROVAL) OF METHODS PROPOSED.
- WATER SHALL NOT BE PERMITTED IN OPEN TRENCHES DURING CONSTRUCTION.
- CONTRACTOR SHALL CONTACT THE CITY ENGINEERING DEPARTMENT'S INSPECTOR ASSIGNED TO THIS PROJECT AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR GRASSING DISTURBED AREAS FROM BACK OF CURB TO THE RIGHT-OF-WAY AND AREAS OTHERWISE SPECIFIED ON THE PLANS.
- ANY WATER OR SANITARY SEWER SERVICE LOCATED OUTSIDE OF A STREET, ALLEY, OR EASEMENT SHALL BE INSTALLED BY A PLUMBER AND BE INSPECTED BY CODE ENFORCEMENT
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY STANDARDS, TEXAS STATE LAW, AND O.S.H.A. STANDARDS FOR ALL EXCAVATIONS IN EXCESS OF FIVE FEET IN DEPTH. NO OPEN TRENCHES WILL BE ALLOWED WITHOUT PRIOR SPECIFIC WRITTEN APPROVAL OF THE CITY OF KYLE PUBLIC WORKS DEPARTMENT. ON-SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IF REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A TRENCH SAFETY PLAN TO THE CITY OF KYLE PUBLIC WORKS DEPARTMENT AT THE TIME OF THE PRE-CONSTRUCTION MEETING, OR PRIOR TO BEGINNING CONSTRUCTION OF THESE IMPROVEMENTS.
- DURING CONSTRUCTION, ALL MATERIAL TESTING SHALL BE COORDINATED WITH THE CITY OF KYLE CONSTRUCTION INSPECTOR.
- CONTRACTOR SHALL CONTACT THE CITY BUILDING OFFICIAL TO LEARN OF ANY UNUSUAL CONSTRUCTION COMPACTION REQUIREMENTS THE CITY MAY REQUIRE.
- REFER TO M.E.P. AND IRRIGATION PLANS FOR SLEEVING REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH FRANCHISE UTILITY COMPANIES FOR SLEEVING REQUIREMENTS PRIOR TO ANY PAVING ACTIVITIES.
- ALL APPURTENANCES INSTALLED IN PAVEMENT AREAS SHALL BE ADJUSTED AS REQUIRED TO BE FLUSH WITH FINISHED PAVEMENT.
- THE SCOPE OF THIS PROJECT IS TO BE WITHIN THE LIMITS OF CONSTRUCTION AS NOTED IN THE SOIL EROSION CONTROL PLAN.
- THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR COMPLETING AND IMPLEMENTING TRAFFIC CONTROL PLAN.
- THE CONTRACTOR SHALL SALVAGE AND PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC. DURING ALL CONSTRUCTION PHASES UNLESS NOTED OTHERWISE.
- CONTRACTOR STAGING AREA TO BE AGREED UPON BY OWNER PRIOR TO BEGINNING CONSTRUCTION.
- THE CONSTRUCTION CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, SEQUENCE, PROCEDURES, TECHNIQUES OR SCHEDULING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONSTRUCTION CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE FOR SAFETY IN OR ABOUT THE JOB SITE IN ACCORDANCE WITH ANY HEALTH OR SAFETY PRECAUTIONS, REGULATIONS, STANDARDS OR CODES REQUIRED BY O.S.H.A. OR ANY OTHER REGULATORY AGENCY.

**PAVING NOTES:**

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS, THE CITY OF KYLE DRAINAGE AND EROSION CONTROL DESIGN MANUAL, AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS.
- THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION. IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE SILT FENCES (OR OTHER METHODS APPROVED BY THE ENGINEER AND CITY) AS REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL EROSION, CONSERVATION, AND SILTATION REQUIREMENTS. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION.
- BEFORE ANY EARTHWORK IS DONE, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF PAVEMENT AND OTHER ITEMS ESTABLISHED BY THE PLANS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
- TESTING OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY AN APPROVED AGENCY FOR TESTING MATERIALS. THE NOMINATION OF THE TESTING LABORATORY AND THE PAVEMENT OF SUCH TESTING SERVICES SHALL BE MADE BY THE CONTRACTOR. THE OWNER SHALL APPROVE THE LABORATORY NOMINATED TO DO THE TESTING OF MATERIALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SHOW BY STANDARD TESTING PROCEDURES THAT THE WORK CONSTRUCTED DOES MEET THE REQUIREMENTS OF THE CITY'S SPECIFICATION AND THESE PLANS.
- ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE LANES, PARKING STALLS, HANDICAPPED PARKING SYMBOLS, AND MISCELLANEOUS STRIPPING WITHIN PARKING LOT AND AROUND BUILDING AS SHOWN ON THE PLANS.
- REFER TO GEOTECHNICAL REPORT FOR PAVING JOINT LAYOUT NOTES.
- ALL HANDICAP RAMPING, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT OF 1990.
- UNLESS THE PLANS SPECIFICALLY DICTATE TO THE CONTRARY, ON-SITE AND OTHER DIRECTIONAL SIGNS SHALL BE ORIENTED SO THEY ARE READILY VISIBLE TO THE ONCOMING TRAFFIC FOR WHICH THEY ARE INTENDED. FIELD ADJUSTMENTS OF LOCATION AND ORIENTATION OF THE SIGNS ARE TO BE MADE TO ACCOMPLISH THIS.
- CONTRACTOR IS RESPONSIBLE FOR INSTALLING NECESSARY CONDUIT FOR LIGHTING, IRRIGATION, ETC. PRIOR TO PLACEMENT OF PAVEMENT. ALL CONSTRUCTION DOCUMENTS (CIVIL, MEP, LANDSCAPE, AND ARCHITECT) SHALL BE CONSULTED.
- BEFORE PAVING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE HANDICAPPED ROUTES (PER A.D.A. AND T.A.S.) EXIST TO AND FROM EVERY DOOR. IN NO CASE SHALL HANDICAP RAMP SLOPE EXCEED 1/2 HORIZONTAL TO 12 VERTICAL. IN NO CASE SHALL SIDEWALK CROSS SLOPES EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPES EXCEED 5.0 PERCENT. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR A.D.A. AND T.A.S. COMPLIANCE ISSUES.
- REFER TO GEOTECHNICAL REPORT FOR SOIL COMPACTION SPECIFICATIONS.

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER OF RECORD. IN ACCEPTING THESE PLANS, THE CITY OF KYLE MUST RELY UPON THE ADEQUACY OF THE WORK OF THE ENGINEER OF RECORD.

**CALL AT LEAST 48 HOURS BEFORE DIGGING**

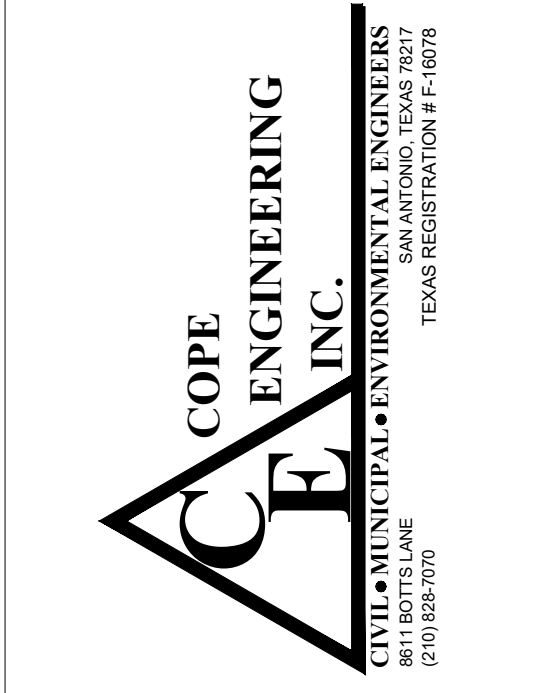
AS OF OCT 1, 1998, IT IS TEXAS STATE LAW THAT YOU CONTACT A ONE-CALL SYSTEM BEFORE EXCAVATING

ONE-CALL SYSTEM OF TEXAS 1-800-545-6005	DIG TESS 1-800-344-8377	LONE STAR NOTIFICATION 1-800-669-8344	TEXAS ONE-CALL 1-800-245-4545
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A FEDERAL LAW NOW IN EFFECT ALSO STATES THAT ANY PERSON WHO ENGAGES IN EXCAVATION ACTIVITIES WITHOUT FIRST USING AN AVAILABLE ONE-CALL NOTIFICATION SYSTEM TO DETERMINE LOCATIONS OF UNDERGROUND FACILITIES: OR WITHOUT HEEDING LOCATION INFORMATION OR MARKINGS AND SUBSEQUENTLY DAMAGES AN UNDERGROUND FACILITY SHALL BE SUBJECT TO A FINE, IMPRISONMENT, OR BOTH. THE LAW ALSO STATES THAT OSHA MAY BE NOTIFIED OF ANY ACCIDENT CAUSED BY AN EXCAVATOR.

**LOCAL UTILITY AGENCIES:**

KYLE UTILITIES	WATER & SEWER	512-262-3024
SPECTRUM CABLE	CABLE	1-855-707-7328
SOUTHWESTERN BELL	TELEPHONE	956-585-2791
SPRINT COMMUNICATIONS	TELEPHONE	888-211-4727
PEDERNALES ELECTRIC	ELECTRIC	877-372-0391



1	PERMIT SET	06/05/23
No.	DESCRIPTION	DATE



**KHIT**  
CHIROPRACTIC  
WELLNESS

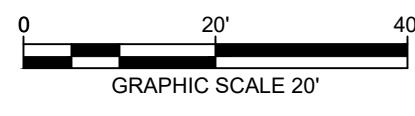
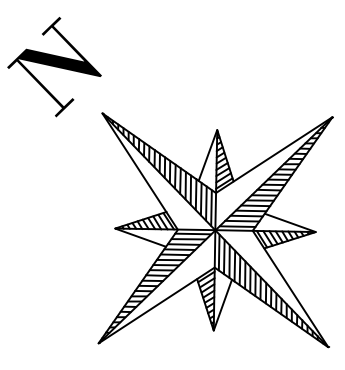
2022-008  
GENERAL  
CONSTRUCTION NOTES

C1.01



S.W.P.P. GENERAL NOTES

1. THE NPDES NOTICE OF INTENT (N.O.I.) SHALL BE FILED BY THE PRIMARY OPERATOR AT LEAST 7 DAYS PRIOR TO THE CONTRACTOR MOVING ONTO THE SITE. THE N.O.I. WILL BE SUBMITTED TO T.C.E.Q. ALONG WITH A COPY TO THE CITY OF KYLE.
2. UPON COMPLETION OF CONSTRUCTION AND THE INSTALLATION OF PERMANENT EROSION CONTROL METHODS, A FINAL EROSION CONTROL INSPECTION WILL BE PERFORMED AS PART OF ACCEPTANCE OF THE PROJECT. IN THE EVENT THAT THE PERMANENT EROSION CONTROL IS INADEQUATE DUE TO IMPROPER DESIGN OR INSTALLATION, THE PERMANENT EROSION CONTROL MEASURE MUST BE CORRECTED OR RE-DESIGNED TO FUNCTION PROPERLY.
3. A NOTICE OF TERMINATION (N.O.T.) SHALL BE SUBMITTED TO T.C.E.Q. IN CONNECTION WITH COMPLETION OF THE PROJECT BY THE PRIMARY OPERATOR. A COPY OF THE N.O.T. SHALL ALSO BE SUBMITTED TO CITY OF KYLE.
4. THE CERTIFICATION SHALL BE SIGNED BY THE PRIMARY OPERATOR DURING PRE-CONSTRUCTION AND KEPT ON THE JOB SITE OR IN A LOCATION WHERE IT IS READILY AVAILABLE FOR VIEWING.

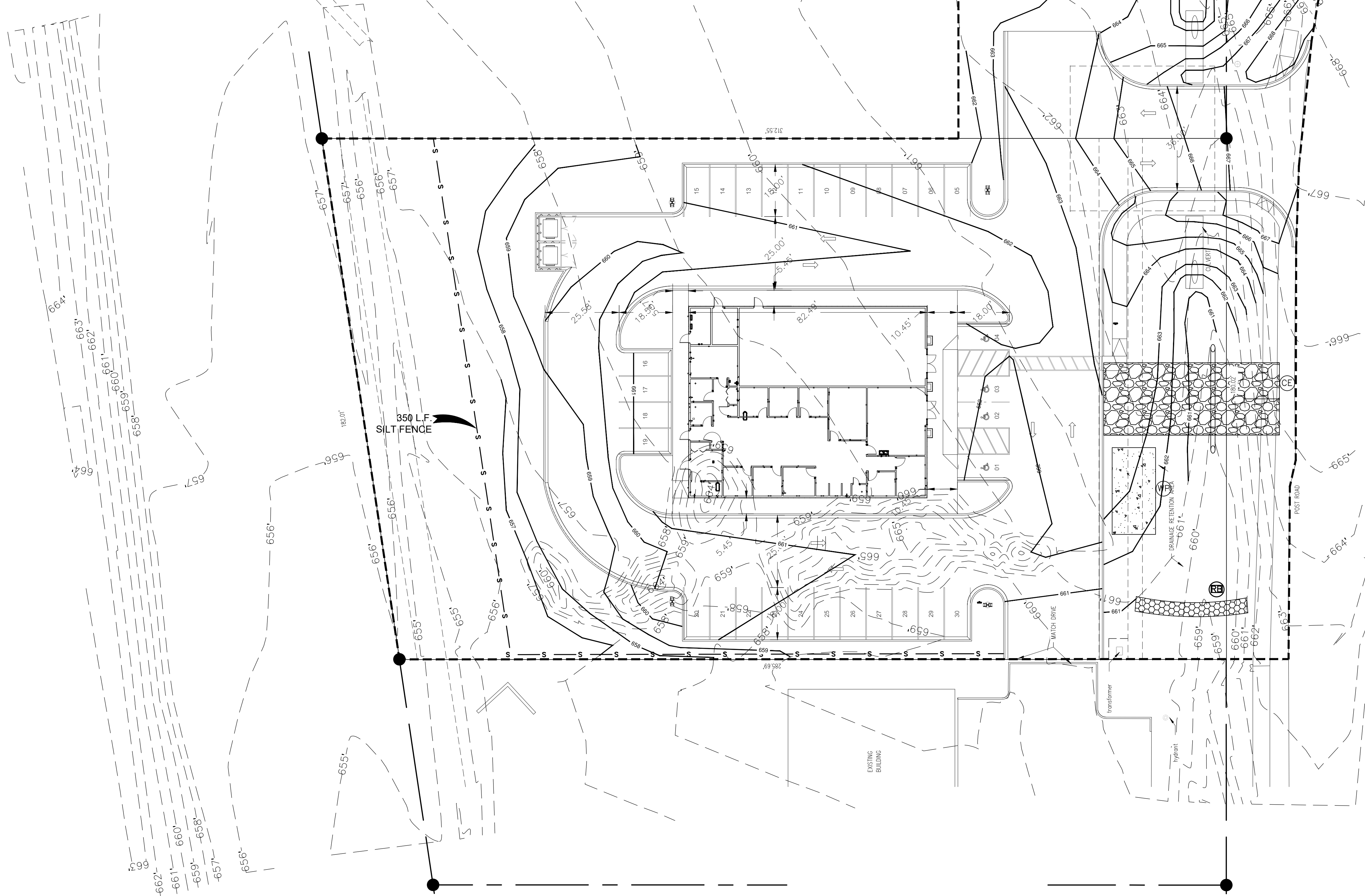


**LEGEND**

---	L.O.C.	LIMITS OF CONSTRUCTION
---	S	SILT FENCE
⊙	CE	CONSTRUCTION ENTRANCE
⊙	WP	CONCRETE WASHOUT PIT (FIELD LOCATED)
⊙	RB	ROCK BERM
---	665	EXISTING 1FT. CONTOURS
---	665	PROPOSED 1FT. CONTOURS
→		FLOW DIRECTION

**QUANTITIES**

(1) CONSTRUCTION ENTRANCE
350 TOTAL L.F. SILT FENCE
(1) ROCK BERM
(1) CONCRETE WASHOUT PIT



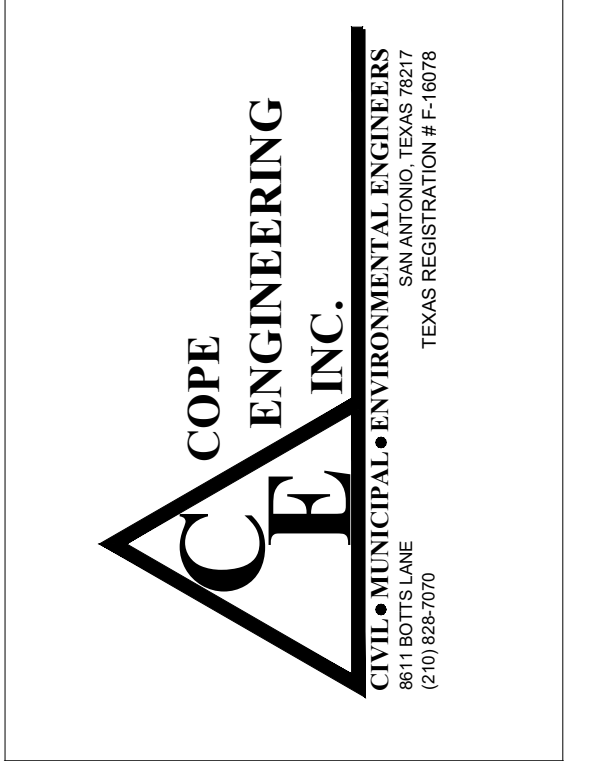
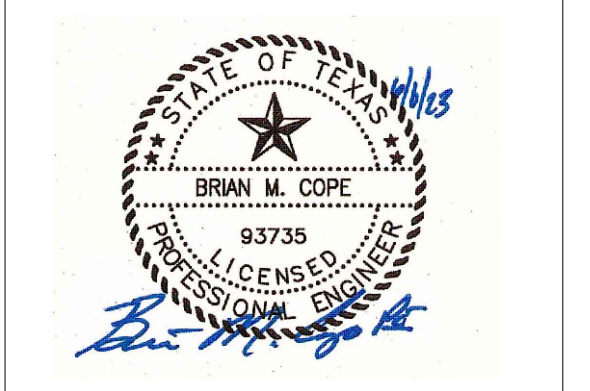
- SOIL STABILIZATION PRACTICES:**
- HYDROMULCHING
  - TEMPORARY SEEDING
  - PERMANENT PLANTING, SODDING, OR SEEDING
  - MULCHING
  - SOIL RETENTION BLANKET
  - BUFFER ZONES
  - PRESERVATIVE OF NATURAL RESOURCES
- OTHER: \_\_\_\_\_

- STRUCTURAL PRACTICES:**
- SILT FENCES
  - HAY BALES
  - ROCK BERMS
  - DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
  - DIVERSION, INTERCEPTOR, OR PERIMETER SWALES
  - DIVERSION DIKE AND SWALE COMBINATIONS
  - PIPE SLOPE DRAINS
  - PAVED FLUMES
  - ROCK BEDDING AT CONSTRUCTION EXIT
  - TIMBER MATTING AT CONSTRUCTION EXIT
  - CHANNEL LINERS
  - SEDIMENT TRAPS
  - SEDIMENT BASINS
  - STORM INLET SEDIMENT TRAP
  - STONE OUTLET STRUCTURES
  - CURBS AND GUTTERS
  - STORM SEWERS
  - VELOCITY CONTROL DEVICES
- OTHER: \_\_\_\_\_

- SEQUENCE OF CONSTRUCTION SCHEDULE:**
1. INSTALL SILT FENCE & CURB INLET PROTECTION
  2. CLEAR AND GRUB SITE
  3. PRELIMINARY GRADING
  4. INSTALL UNDERGROUND UTILITIES
  5. BUILDING CONSTRUCTION
  6. PAVEMENT CONSTRUCTION
  7. FINAL GRADING AND STABILIZATION
  8. WHEN ALL CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED AND APPROVED BY THE PROJECT ENGINEER AND CITY OF NEW BRAUNFELS, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND STABILIZE AREAS DISTURBED BY THEIR REMOVAL.

**NOTE:**  
PER TPDES REQUIREMENTS, DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITIES HAVE CEASED (TEMPORARILY OR PERMANENTLY) SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITY RESUMES WITHIN 21 DAYS. SEEDING DOES NOT CONSTITUTE AS STABILIZATION

**SOIL STABILIZATION NOTE:**  
BARE SOILS SHOULD BE SEEDDED OR OTHERWISE STABILIZED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OR WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED FOR MORE THAN 21 DAYS. SEDIMENT THAT HAS ESCAPED THE SITE DUE TO THE FAILURE OF SEDIMENT AND EROSION CONTROLS SHOULD BE REMOVED AS SOON AS POSSIBLE TO MINIMIZE OFFSITE IMPACTS. PERMISSION SHOULD BE OBTAINED FROM ADJACENT LANDOWNERS PRIOR TO OFFSITE SEDIMENT REMOVAL.



No.	PERMIT SET DESCRIPTION	DATE
1	PERMIT SET	06/05/23

**SG** SAM GARCIA ARCHITECT  
1200 Auburn Ave., Suite 280  
McAllen, TX 78504  
(956) 631-8327  
info@samgarciaarchitect.com

**KHIT CHIROPRACTIC WELLNESS**

KYLE, TX  
2022-008  
SOIL EROSION & SEDIMENT CONTROL PLAN

C2.01

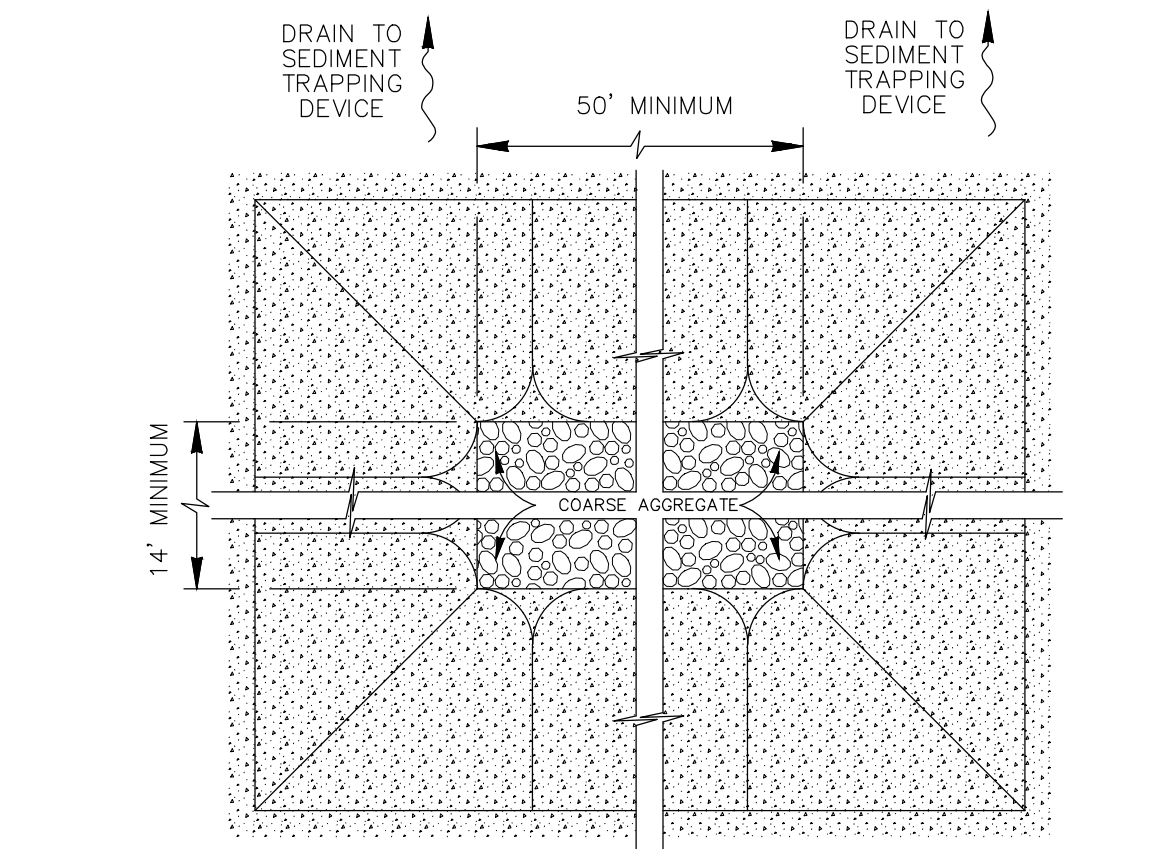
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A FEDERAL LAW NOW IN EFFECT ALSO STATES THAT ANY PERSON WHO ENGAGES IN EXCAVATION ACTIVITIES WITHOUT FIRST USING AN AVAILABLE ONE-CALL NOTIFICATION SYSTEM TO DETERMINE LOCATIONS OF UNDERGROUND FACILITIES OR WITHOUT HEEDING LOCATION INFORMATION OR MARKINGS AND SUBSEQUENTLY DAMAGES AN UNDERGROUND FACILITY SHALL BE SUBJECT TO A FINE, IMPRISONMENT, OR BOTH. THE LAW ALSO STATES THAT OSHA MAY BE NOTIFIED OF ANY ACCIDENT CAUSED BY AN EXCAVATOR.  
LOCAL UTILITY AGENCIES: KYLE UTILITIES WATER, SEWER 512-262-3024

THE EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. SOME OF THE LOCATIONS WERE DETERMINED FROM MAPS PROVIDED BY THE RESPECTIVE UTILITY OWNER AND ARE NOT GUARANTEED. UTILITIES NOT SHOWN ON THIS DRAWING MAY EXIST. THE CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY OWNER FOR FIELD VERIFICATION AND IS RESPONSIBLE FOR ANY DAMAGES TO AND FOR MAINTENANCE AND PROTECTIONS OF ALL EXISTING UTILITIES. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH EACH UTILITY OWNER 72 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL CALL A UTILITY LOCATOR FOR GENERAL UTILITY LOCATIONS

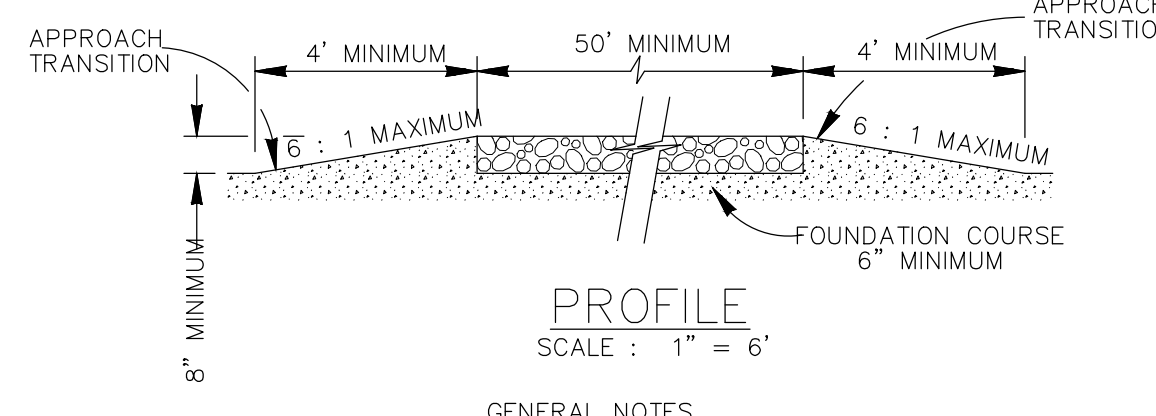
**TRENCH EXCAVATION SAFETY PROTECTION**  
CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION THAT COMPLIES WITH, AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

It is the Contractor's responsibility to see that all signs and barricades are properly installed and maintained. All locations and distances will be decided upon the field by the Contractor, using the Texas Manual On Uniform Traffic Control Devices and TXDOT barricade and construction standards. Construction Inspector and the Owner's Representative will only be responsible to inspect Barricades and Signs. If in the opinion of the Owner's Representative and the Construction Inspector, the Barricades and stops do not conform to established standards or are incorrectly placed or are insufficient in quantity to protect the general public, the Construction Inspector shall have the option to stop operations until such time as the conditions are corrected.





PLAN  
SCALE: 1" = 6'

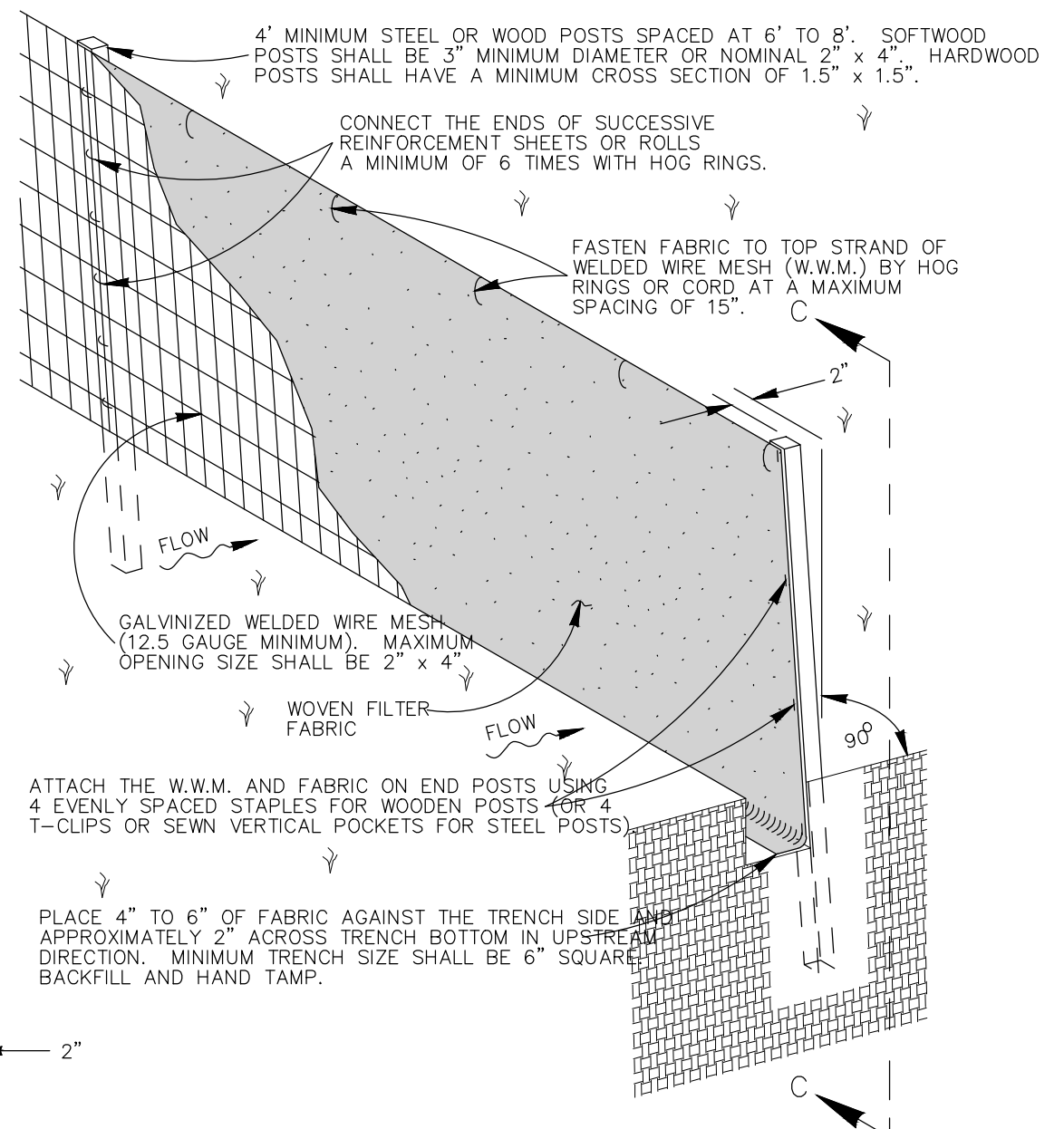


PROFILE  
SCALE: 1" = 6'

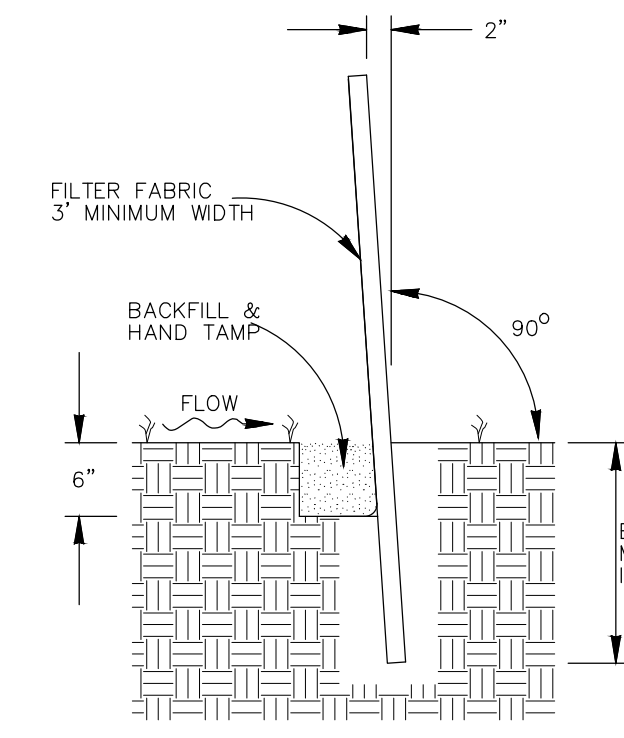
GENERAL NOTES

1. THE LENGTH OF THE TYPE 1 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
2. THE COARSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF 4" TO 8".
3. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6 : 1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
4. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
5. THE CONSTRUCTION EXIT SHALL BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
6. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

CONSTRUCTION EXIT – TYPE 1



ISOMETRIC VIEW  
SCALE: 1" = 2'



SECTION C-C  
SCALE: 1" = 2'

SEDIMENT CONTROL FENCE USAGE GUIDELINES

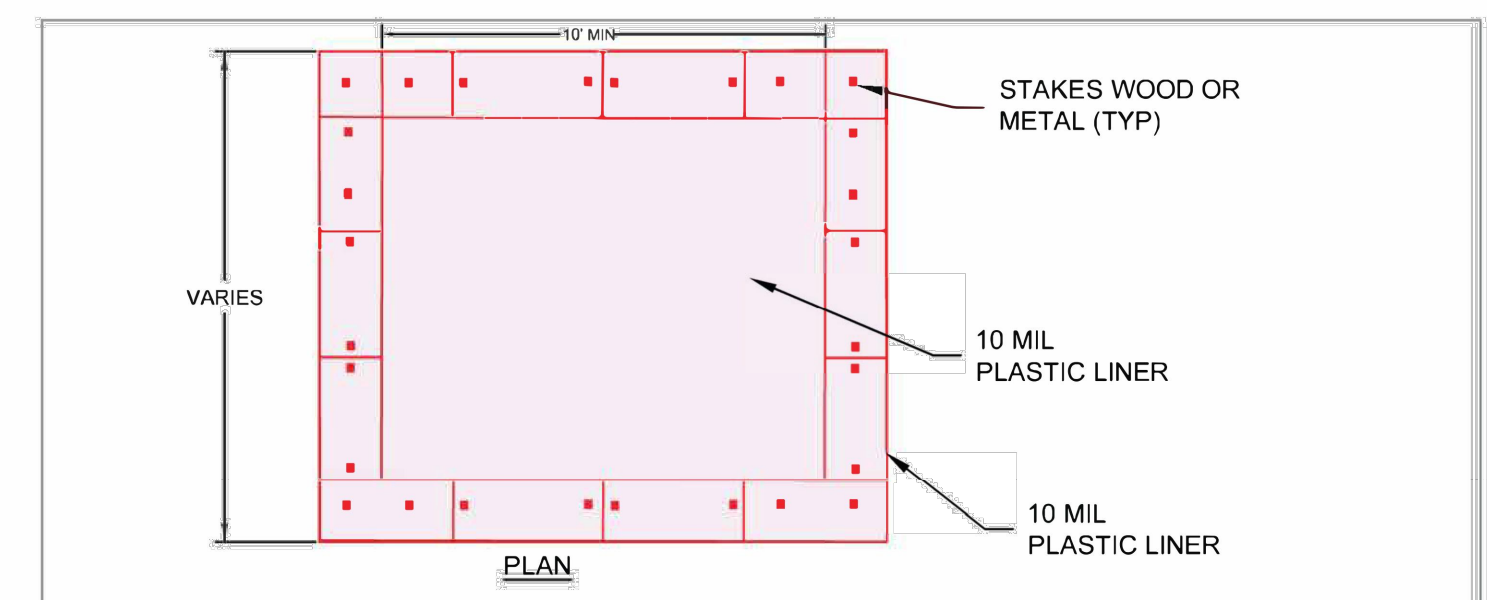
A SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUN-OFF. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED.

SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAXIMUM FLOW THRU RATE OF 100 GPM / FT SQUARED. SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA LARGER THAN 2 ACRES.

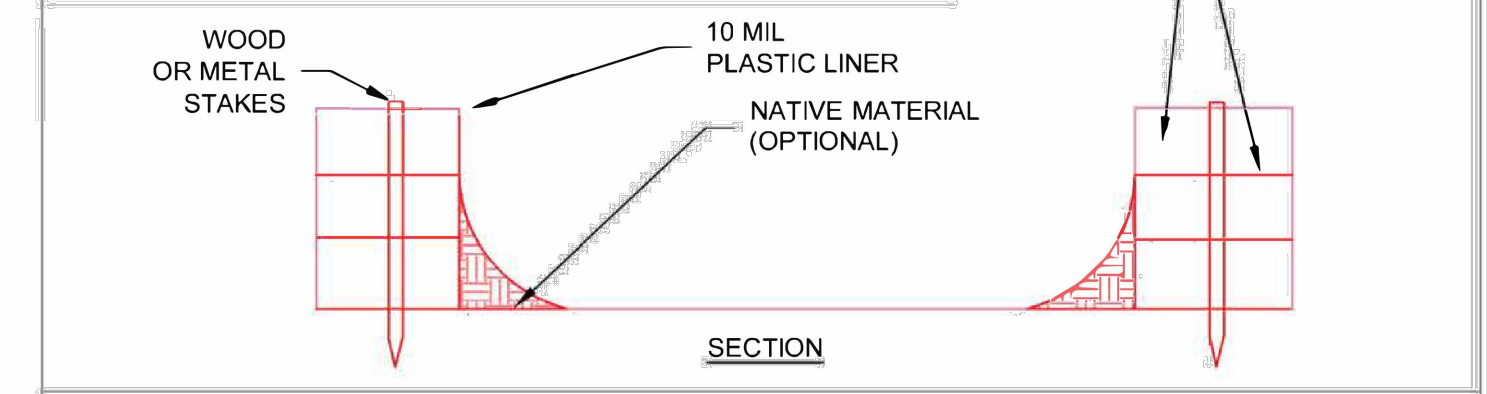
GENERAL NOTES

1. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

TEMPORARY SEDIMENT CONTROL FENCE

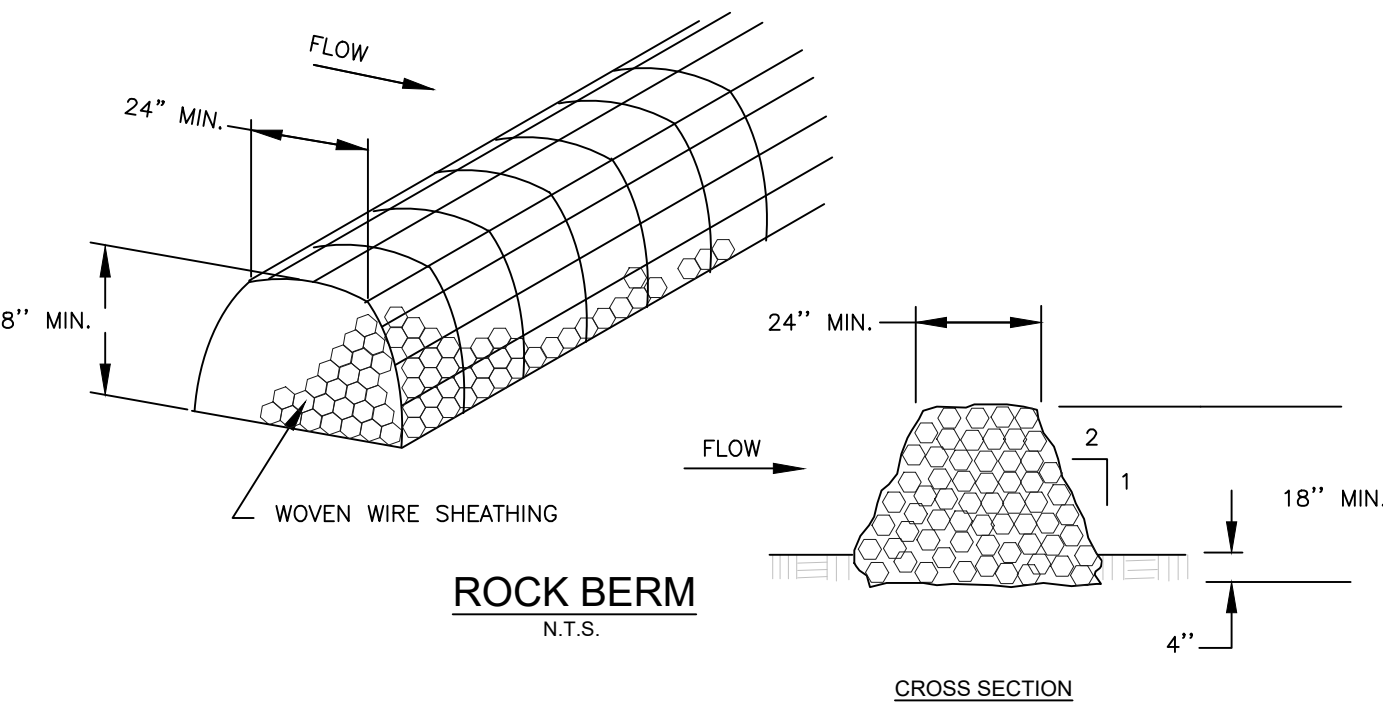


- NOTES:
1. THE CITY RECOMMENDS PREFABRICATED CONCRETE WASHOUT CONTAINERS IF A PREFABRICATED CONCRETE WASHOUT CONTAINER IS NOT UTILIZED, THIS DETAIL IS REQUIRED.
  2. DETAIL ABOVE ILLUSTRATES MINIMUM DIMENSIONS. PIT CAN BE INCREASE IN SIZE DEPENDING ON EXPECTED FREQUENCY OF USE.
  3. WASHOUT PIT SHALL BE LOCATED IN AN AREA EASILY ACCESSIBLE TO CONSTRUCTION TRAFFIC.
  4. WASHOUT PIT SHALL NOT BE LOCATED IN AREAS SUBJECT TO INUNDATION FROM STORMWATER RUNOFF.
  5. LOCATE WASHOUT AREA AT LEAST 50 FT FROM SENSITIVE FEATURES, FLOORPLAN, STORM DRAINS, OPEN DITCHES OR WATER BODIES.
  6. TEMPORARY WASHOUT FACILITY SHOULD BE CONSTRUCTED WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
  7. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
- MATERIALS:
- PLASTIC LINING MATERIAL SHOULD BE MINIMUM OF 10 MIL IN POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
- MAINTENANCE:
1. WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHOULD BE REMOVED AND DISPOSED OF LEGALLY.
  2. MATERIALS USED TO CONSTRUCT TEMPORARY WASHOUT FACILITIES SHOULD BE REMOVED FROM THE SITE OF WORK AND DISPOSED LEGALLY.
  3. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCES CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE BACKFILLED AND REPAIRED.



SECTION

	NTS	CONCRETE WASHOUT ABOVE GRADE	PROJECT: CITY OF KYLE	1.0
			DATE: 11/2021	

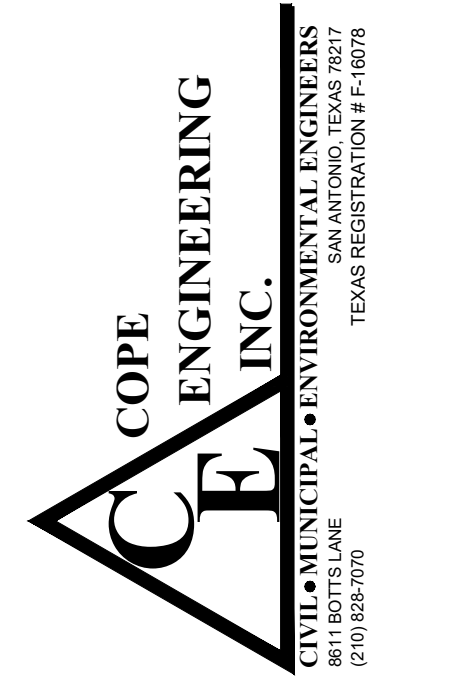


ROCK BERM  
N.T.S.

CROSS SECTION

NOTES:

1. USE OPEN GRADED ROCK 3" TO 5" DIAMETER FOR STREAM FLOW CONDITIONS. USE OPEN GRADED ROCK 5" TO 8" DIAMETER FOR AREAS WHERE HIGH VELOCITIES OR LARGER VOLUMES OF FLOW ARE EXPECTED.
2. THE ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM 4" OPENING AND MINIMUM WIRE DIAMETER OF 20 GAUGE. ROCK BERMS IN CHANNEL APPLICATIONS SHALL BE ANCHORED FIRMLY INTO THE SUBSTRATE A MINIMUM OF 6" WITH T-POSTS OR #5 OR #6 REBAR, WITH MAXIMUM SPACING APART 48" ON CENTER.
3. THE ROCK BERM SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL.
4. THE BERM SHOULD BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
5. WHEN SILT REACHES A DEPTH EQUAL TO ONE-THIRD THE HEIGHT OF THE BERM OR 6", WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF ON AN APPROVED SITE AND IN A MANNER THAT WILL NOT CREATE A SILTATION PROBLEM.
6. REPAIR ANY LOOSE WIRE SHEATHING.
7. THE BERM SHOULD BE RESHAPED AS NEEDED DURING INSPECTION.
8. THE ROCK BERM SHOULD BE LEFT IN PLACE UNTIL ALL UPSTREAM AREAS ARE STABILIZED AND ACCUMULATED SILT REMOVED.
9. WHEN THE SILT IS COMPLETELY STABILIZED, THE BERM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.



1	PERMIT SET	06/05/23
No.	DESCRIPTION	DATE

	SAM GARCIA ARCHITECT
	1200 Auburn Ave., Suite 280
	McAllen, TX 78504
	(956) 631-8327
info@samgarciaarchitect.com	

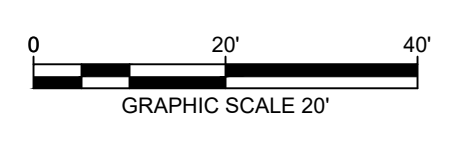
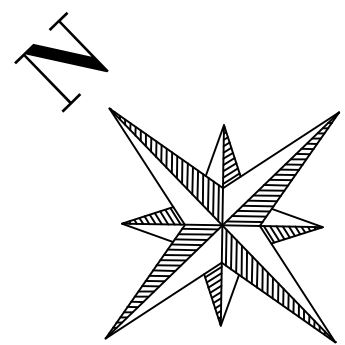
**KHIT**  
CHIROPRACTIC  
WELLNESS

KYLE, TX  
2022-008  
SOIL EROSION & SEDIMENT CONTROL DETAILS

C2.02



1/2" = 1" = 1/8" = 1/16"



**PROPERTY DESCRIPTION**

1.24 ACRES (54,015 SQ.FT.)  
 LOT 5 - IH 35 CORRIDOR CORNER  
 CITY OF KYLE, TEXAS  
 HAYS COUNTY, TEXAS

**PROJECT BENCHMARK:**  
 SQUARE IN THE NORTHEAST END OF CONCRETE  
 SIDEWALK, ±9.4' SOUTHWEST OF SUBJECT SITE'S  
 SOUTHWEST PROPERTY CORNER  
 ELEVATION = 662.26' NAVD88

**NOTES:**

1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
2. REFERENCE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
3. REFERENCE LANDSCAPE PLANS FOR COMPLIANCE WITH CITY OF KYLE LANDSCAPE ORDINANCE AND TREE PRESERVATION PLAN.
4. NO SLOPE SHALL EXCEED 2% IN ANY DIRECTION WITHIN HANDICAP SPACES.
5. NO ACCESSIBLE ROUTES SHALL EXCEED A RUNNING SLOPE GREATER THAN 1:20.
6. ALL CONCRETE CURBS SHALL BE 6" UNLESS OTHERWISE NOTED ON PLAN.

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER OF RECORD. IN ACCEPTING THESE PLANS, THE CITY OF KYLE MUST RELY UPON THE ADEQUACY OF THE WORK OF THE ENGINEER OF RECORD.

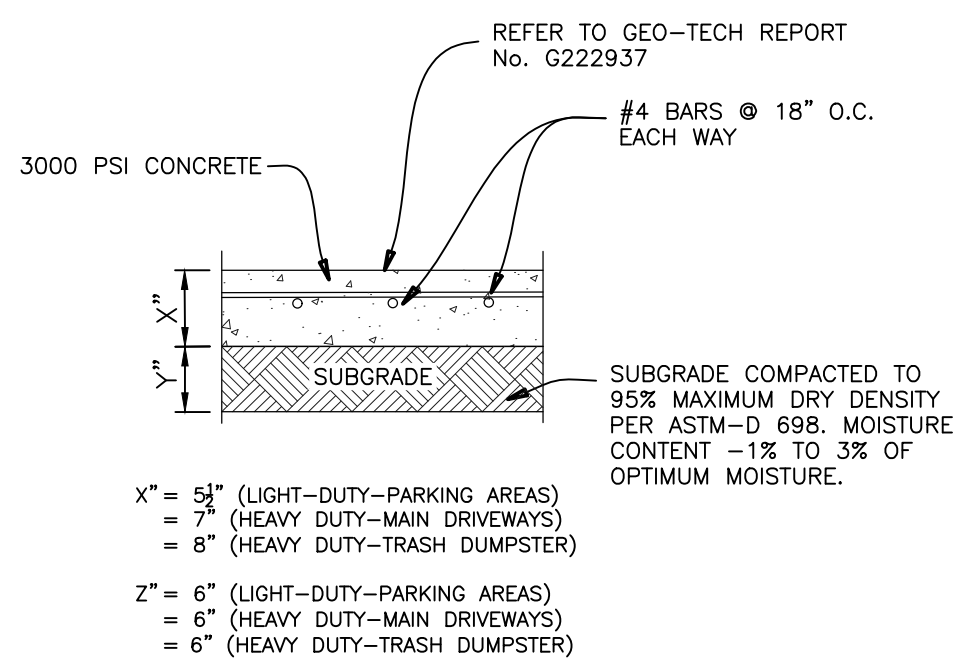
**LEGEND**

- PROPERTY LINE
- - - EX-S-S EXISTING SANITARY SEWER
- - - EX-WL EXISTING WATER LINE
- - - O.H.U. EXISTING OVERHEAD UTILITIES
- ⊗ EXISTING SAN. SEWER MANHOLE
- ⊗ EXISTING FIRE HYDRANT
- ▨ PROP. ACCESSIBLE RAMP
- ⊙ NUMBER OF PARKING SPACES
- ▬ PROP. FIRE LANE
- ▨ PROPOSED LIGHT DUTY PARKING PAVEMENT
- ▨ PROPOSED HEAVY DUTY DRIVEWAY PAVEMENT
- ▨ PROPOSED HEAVY DUTY PAVEMENT TRASH DUMPSTER
- ▨ PROPOSED CONCRETE SIDEWALK

REFERENCE GEOTECHNICAL REPORT PREPARED BY ROCK ENGINEERING & TESTING LABORATORY, INC. DATED JANUARY 27, 2023, PROJECT NO. G222937 FOR FURTHER SPECIFICATIONS.

**SITE INFORMATION**

GENERAL SITE DATA	R/S
ZONING	
LAND USE	RETAIL & SERVICE DISTRICT
SITE AREA	1.24-ACRES
BUILDING AREA	PROP. BUILDING = 5,580 S.F.
BUILDING HEIGHT	SINGLE STORY, 24'-0"
PARKING SUMMARY	
PROVIDED:	
STANDARD (9'X18')	26 SP.
HANDICAP ACCESSIBLE	4 SP.
TOTAL	30 SP.



**UTILITY TRENCH COMPACTION**

ALL UTILITY TRENCH COMPACTION TESTS WITHIN THE STREET PAVEMENT SECTION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER'S GEO-TECHNICAL ENGINEER. FILL MATERIAL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED TWELVE INCHES (12") LOOSE. EACH LAYER OF MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% DENSITY AND TESTED FOR DENSITY AND MOISTURE IN ACCORDANCE WITH TEST METHODS TEX-113-E, TEX-114-E, TEX-115-E. THE NUMBER AND LOCATION OF REQUIRED TESTS SHALL BE DETERMINED BY THE GEO-TECHNICAL ENGINEER AND APPROVED BY THE CITY OF KYLE STREET INSPECTOR. AT A MINIMUM, TESTS SHALL BE TAKEN EVERY 100LF FOR EACH LIFT. UPON COMPLETION OF TESTING THE GEO-TECHNICAL ENGINEER SHALL PROVIDE THE CITY OF KYLE STREET INSPECTOR WITH ALL TESTING DOCUMENTATION AND A CERTIFICATION STATING THAT THE PLACEMENT OF FILL MATERIAL HAS BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.

THE EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. SOME OF THE LOCATIONS WERE DETERMINED FROM MAPS PROVIDED BY THE RESPECTIVE UTILITY OWNER AND ARE NOT GUARANTEED. UTILITIES NOT SHOWN ON THIS DRAWING MAY EXIST. THE CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY OWNER FOR FIELD VERIFICATION AND IS RESPONSIBLE FOR ANY DAMAGES TO AND FOR MAINTENANCE AND PROTECTIONS OF ALL EXISTING UTILITIES. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH EACH UTILITY OWNER 72 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL CALL A UTILITY LOCATOR FOR GENERAL UTILITY LOCATIONS.

**TRENCH EXCAVATION SAFETY PROTECTION**

CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION THAT COMPLIES WITH, AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

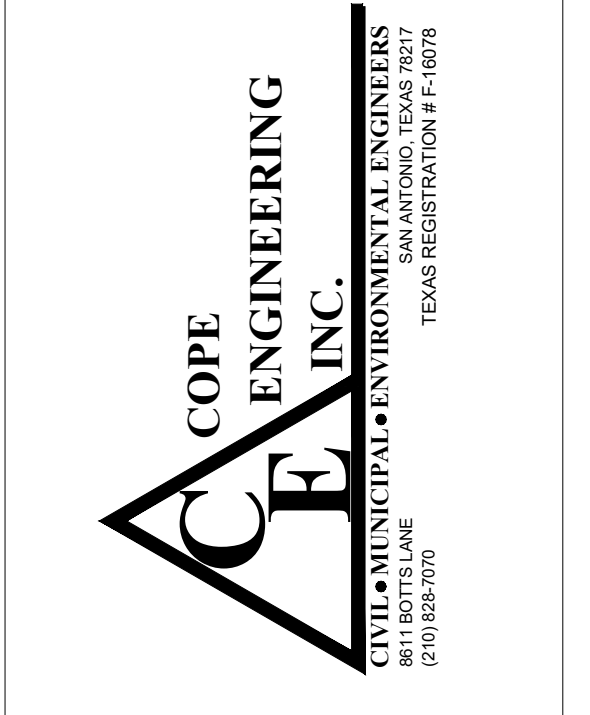
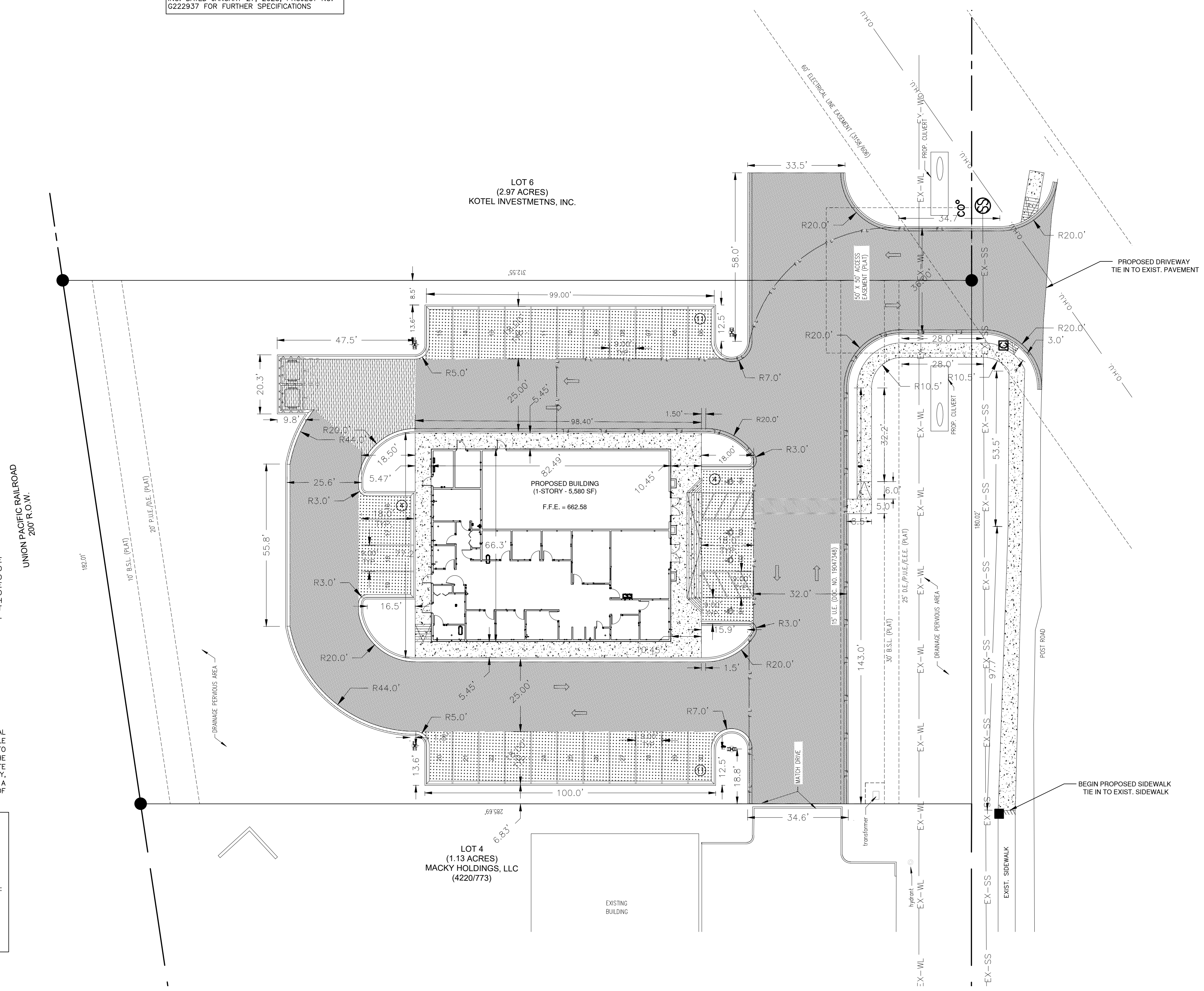
**CALL AT LEAST 48 HOURS BEFORE DIGGING**

AS OF OCT 1, 1998, IT IS TEXAS STATE LAW THAT YOU CONTACT A ONE-CALL SYSTEM BEFORE EXCAVATING

ONE-CALL SYSTEM OF TEXAS 1-800-545-6005	DIG TESS 1-800-344-8377	LONE STAR NOTIFICATION 1-800-669-8344	TEXAS ONE-CALL 1-800-245-4545
--	----------------------------	--	----------------------------------

A FEDERAL LAW NOW IN EFFECT ALSO STATES THAT ANY PERSON WHO ENGAGES IN EXCAVATION ACTIVITIES WITHOUT FIRST USING AN AVAILABLE ONE-CALL NOTIFICATION SYSTEM TO DETERMINE LOCATIONS OF UNDERGROUND FACILITIES; OR WITHOUT HEEDING LOCATION INFORMATION OR MARKINGS AND SUBSEQUENTLY DAMAGES AN UNDERGROUND FACILITY SHALL BE SUBJECT TO A FINE, IMPRISONMENT, OR BOTH. THE LAW ALSO STATES THAT OSHA MAY BE NOTIFIED OF ANY ACCIDENT CAUSED BY AN EXCAVATOR.

LOCAL UTILITY AGENCIES:  
 KYLE UTILITIES WATER, SEWER 512-262-3024



1	PERMIT SET	06/05/23
No.	DESCRIPTION	DATE



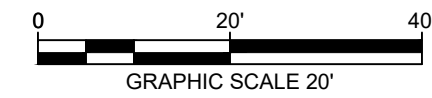
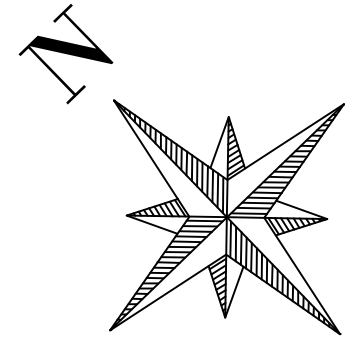
**KHIT CHIROPRACTIC WELLNESS**

KYLE, TX  
 2022-008  
 PROP. SITE & DIMENSION PLAN

C3.01

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**LEGEND**

- PROPOSED FIRE LANE
- HOSE LAY LIMIT
- END OF HOSE LAY
- EXISTING FIRE HYDRANT

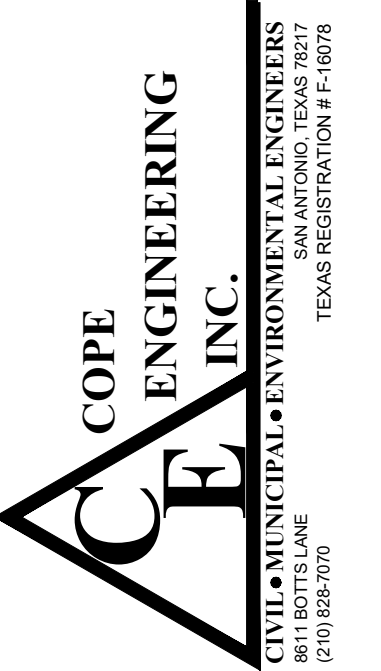
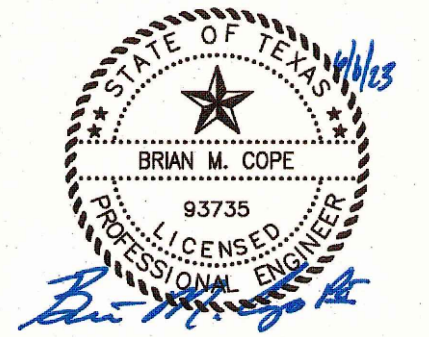
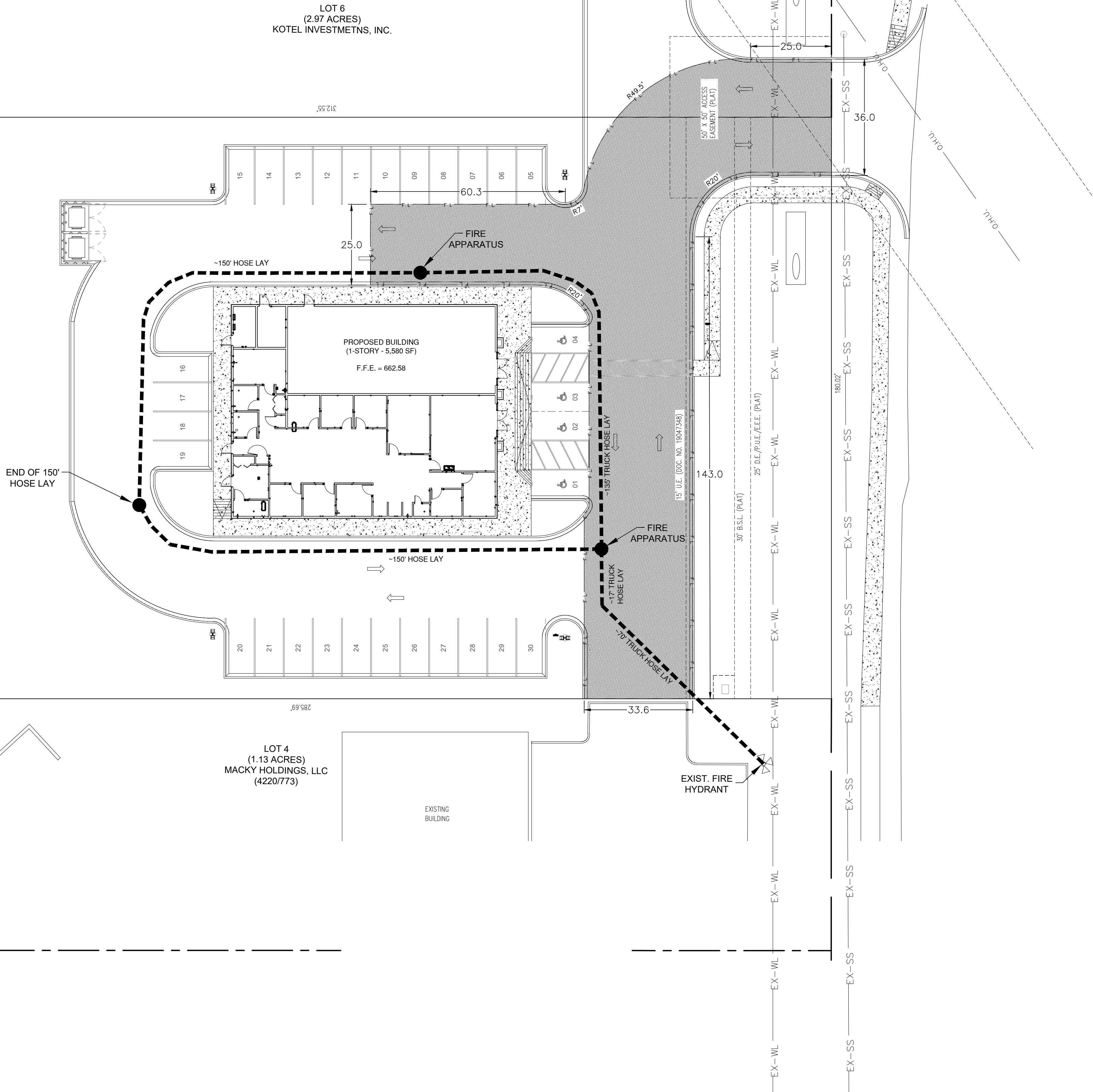
**PROPERTY DESCRIPTION**  
 1.24 ACRES (54,015 SQ.FT.)  
 LOT 5 - IH 35 CORRIDOR CORNER  
 CITY OF KYLE, TEXAS  
 HAYS COUNTY, TEXAS

SITE INFORMATION	
GENERAL SITE DATA	R/S
ZONING	
LAND USE	RETAIL & SERVICE DISTRICT
SITE AREA	1.24-ACRES
BUILDING AREA	PROP. BUILDING = 5,580 S.F.
BUILDING HEIGHT	SINGLE STORY, 24'-0"
<b>PARKING SUMMARY</b>	
PROVIDED:	
STANDARD (9'X18')	26 SP.
HANDICAP ACCESSIBLE	4 SP.
TOTAL	30 SP.

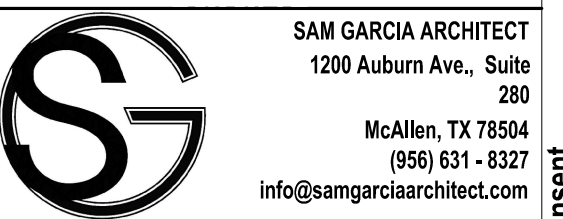
**FIRE PREVENTION NOTES**

1. THE CONTRACTOR SHALL PROVIDE COMPACTED FLEXIBLE BASE PAVEMENT PRIOR TO CONSTRUCTION OF COMBUSTIBLE MATERIALS AS AN "ALL WEATHER DRIVING SURFACE."
2. HYDRANTS MUST BE INSTALLED WITH THE CENTER OF THE 4 1/2 INCH OPENING AT LEAST EIGHTEEN (18) INCHES ABOVE FINISHED GRADE. THE 4 1/2 INCH OPENING MUST FACE THE DRIVEWAY OR STREET WITH 3' - 6" SETBACK FROM CURBLINE(S). NO OBSERVATION IS ALLOWED WITHIN THREE (3) FEET OF ANY HYDRANT AND THE 4 1/2 INCH OPENING MUST BE TOTALLY UNOBSTRUCTED FROM THE STREET (USE NST THREADS).
3. DESIGNATE NO PARKING - FIRE LANE WITH CURB PAINTED RED AND WHITE STENCIL IN "FIRE ZONE / TOW AWAY ZONE" IN LETTERING 3 INCHES IN HEIGHT IN PROXIMITY TO COMMERCIAL, INDUSTRIAL AND PUBLIC STRUCTURES.

UNION PACIFIC RAILROAD  
200' R.O.W.



No.	PERMIT SET DESCRIPTION	DATE
1		06/05/23



**KHIT**  
**CHIROPRACTIC**  
**WELLNESS**

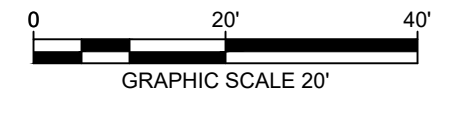
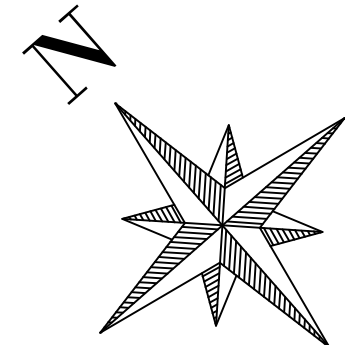
KYLE, TX

2022-008  
 PROP. SITE FIRE  
 PROTECTION PLAN

C3.02

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**PROPERTY DESCRIPTION**  
 1.24 ACRES (54,015 SQ.FT.)  
 LOT 5 - IH 35 CORRIDOR CORNER  
 CITY OF KYLE, TEXAS  
 HAYS COUNTY, TEXAS

**PROJECT BENCHMARK:**  
 SQUARE IN THE NORTHEAST END OF CONCRETE  
 SIDEWALK, ±9.4' SOUTHWEST OF SUBJECT SITE'S  
 SOUTHWEST PROPERTY CORNER  
 ELEVATION = 662.26' NAVD88

**GENERAL NOTES:**

- REFER TO BUILDING PLUMBING PLANS FOR CONTINUATION OF WATER AND SEWER SERVICES.
- SERVICE ALIGNMENT SHOWN ON THIS PLAN ARE TENTATIVE AND SUBJECT TO COORDINATION WITH AND APPROVAL BY THE UTILITY COMPANIES.
- SEE WATER AND SEWER DETAILS ON SHEET C4.02 & C4.03
- DIMENSIONS ARE TO CENTER OF PIPE, UNLESS OTHERWISE NOTED.
- ALL UTILITIES TO BE CONSTRUCTED PRIOR TO DRIVEWAYS.
- NO VALVES, HYDRANTS, CLEANOUTS, ETC. SHALL BE CONSTRUCTED WITHIN CURBS, SIDEWALKS, OR DRIVEWAYS.
- REFER TO GENERAL CONSTRUCTION NOTES SHEET C1.01 FOR WATER & SEWER NOTES

**LEGEND**

- PROPERTY LINE
- EX-SS EXISTING SANITARY SEWER
- EX-WL EXISTING WATER LINE
- O.H.U. EXISTING OVERHEAD UTILITIES
- ⊗ EXISTING SAN. SEWER MANHOLE
- ⊗ EXISTING FIRE HYDRANT
- ▨ PROP. ACCESSIBLE RAMP
- PROP. CLEAN OUT
- FL PROP. FLOW LINE INVERT
- P 1 1/2" W PROP. WATERLINE
- P 4" SS PROP. SEWER LINE

**SITE INFORMATION**

<b>GENERAL SITE DATA</b>	
ZONING	R/S
LAND USE	RETAIL & SERVICE DISTRICT
SITE AREA	1.24-ACRES
BUILDING AREA	PROP. BUILDING = 5,580 S.F.
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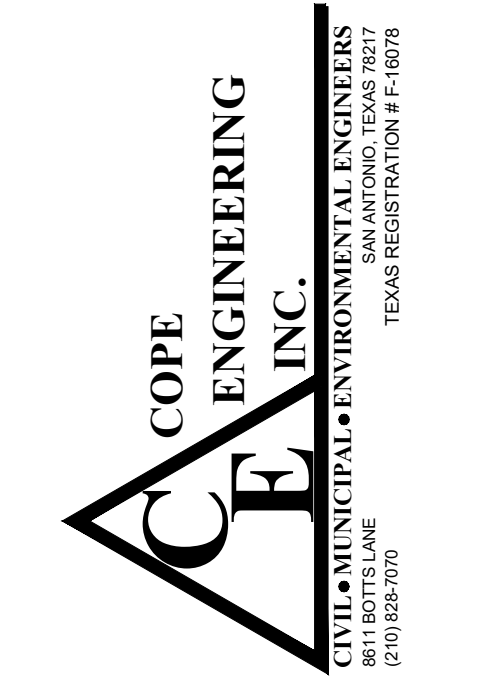
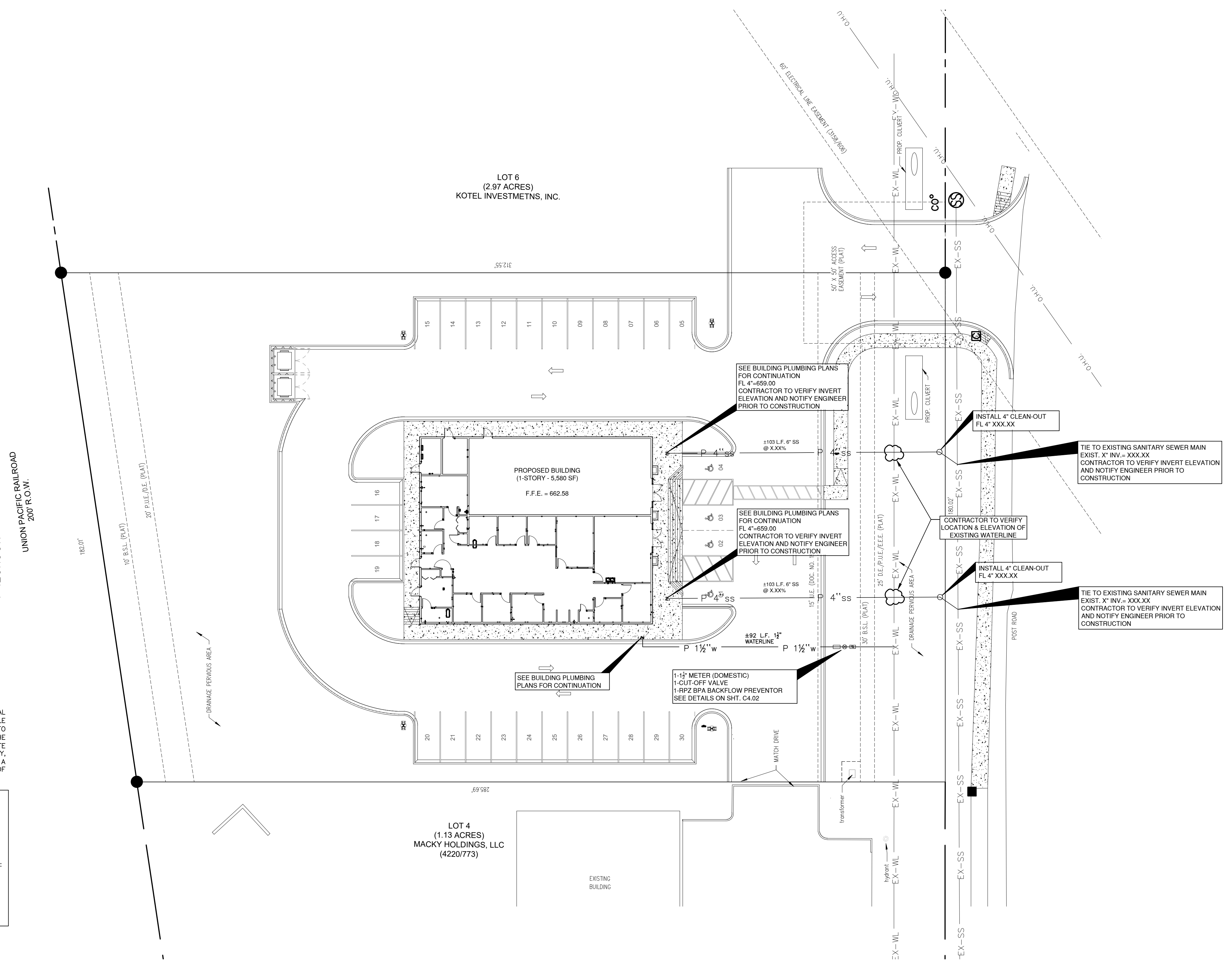
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ONE-CALL SYSTEM OF TEXAS 1-800-545-6005	DIG TESS 1-800-344-8377	LONE STAR NOTIFICATION 1-800-669-8344	TEXAS ONE-CALL 1-800-245-4545
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**LOCAL UTILITY AGENCIES:**  
 KYLE UTILITIES WATER, SEWER 512-262-3024



No.	PERMIT SET DESCRIPTION	DATE
1	PERMIT SET	06/05/23

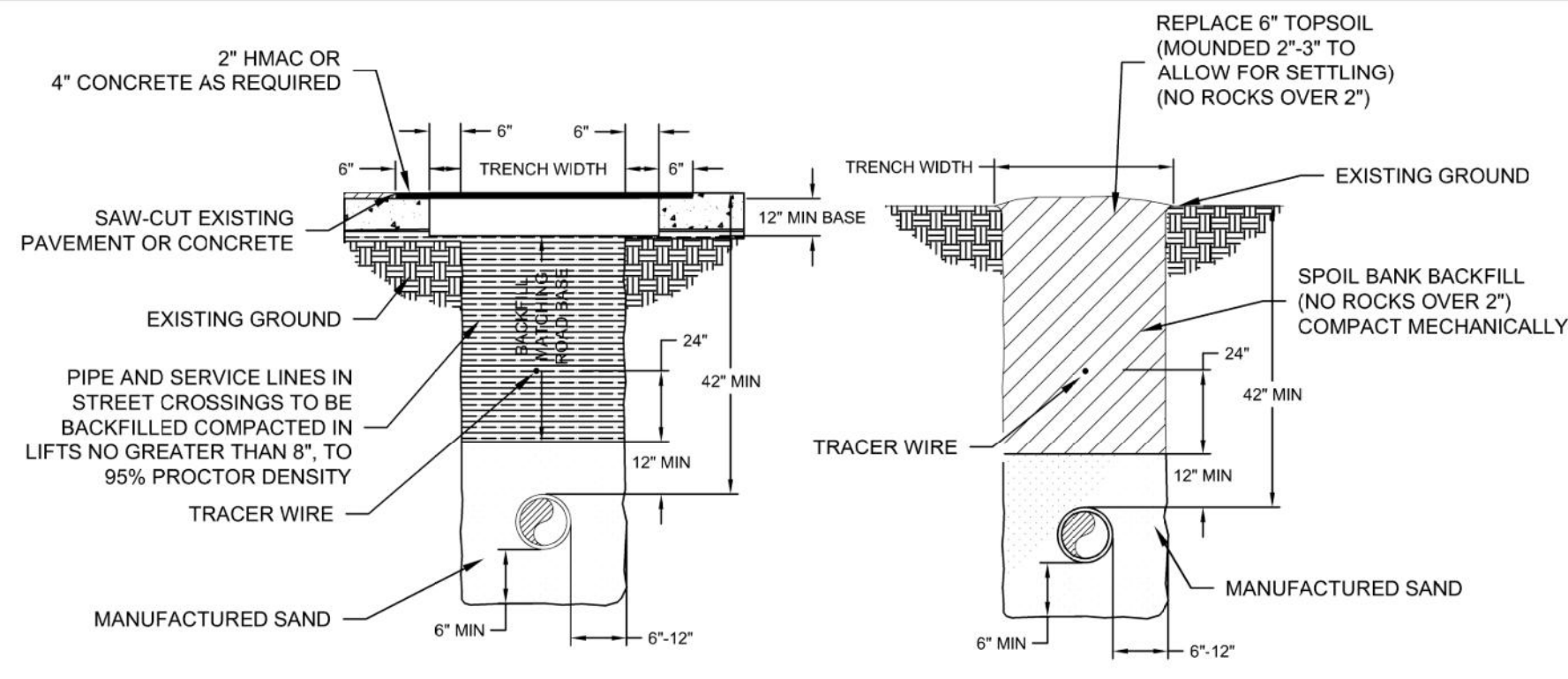


**KHIT CHIROPRACTIC WELLNESS**

KYLE, TX  
 2022-008  
 PROP. SITE UTILITY PLAN

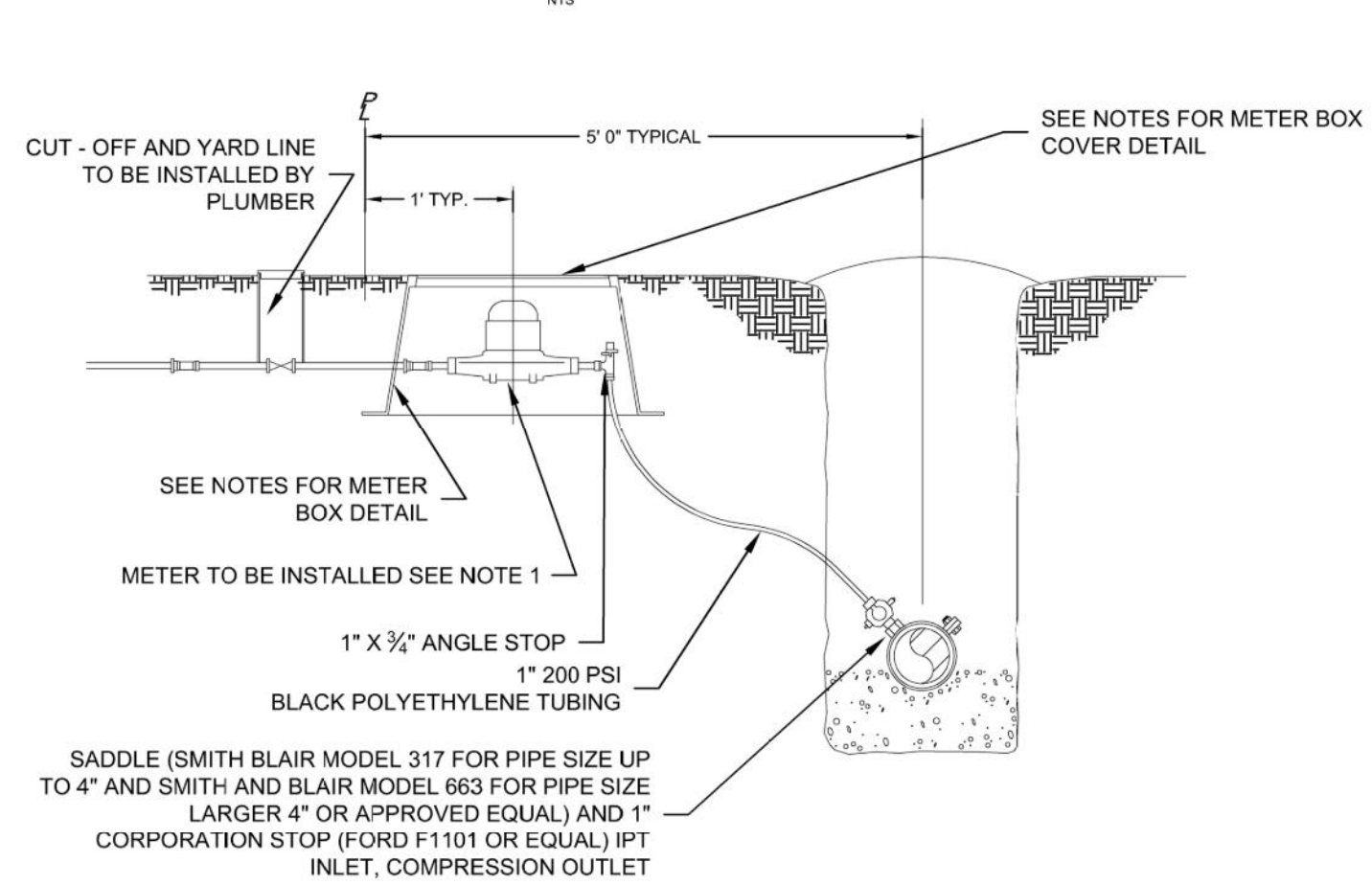
C4.01





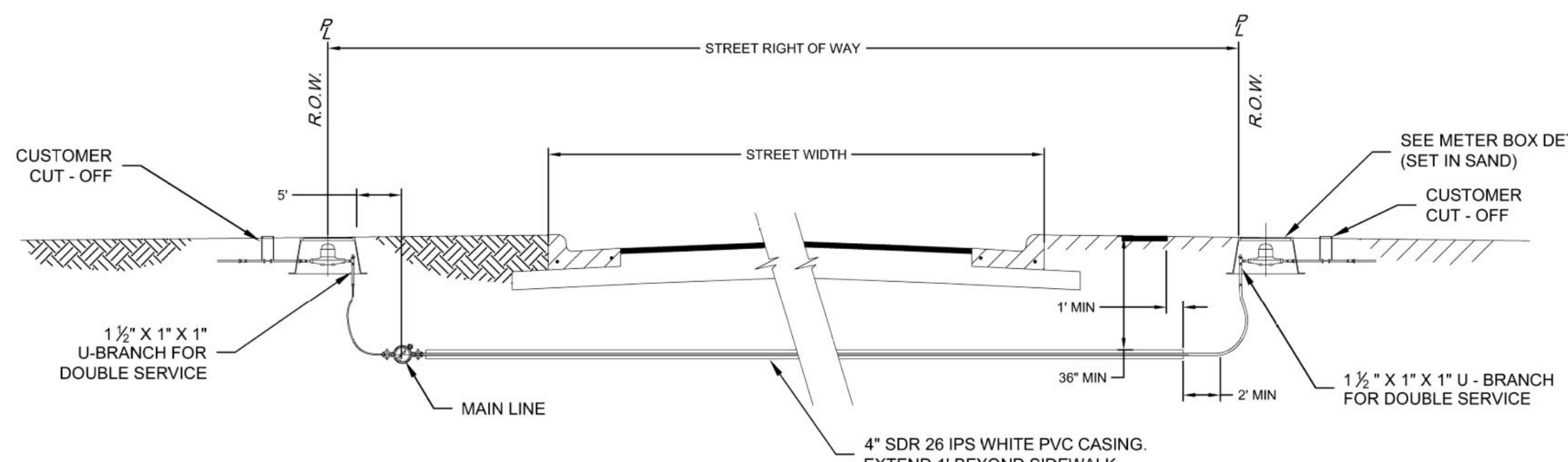
- EXISTING ROADS & PAVED AREAS**
- UNPAVED AREA**
- NOTES:**
1. MINIMUM DEPTH SHOULD BE 42" IN EXISTING OR PLANNED STREETS, ROADS OR OTHER TRAFFIC AREAS.
  2. ROAD BASE SHALL BE REPLACED IN KIND WITH BASE THICKNESS EQUAL TO EXISTING BASE THICKNESS PLUS 3", BUT IN NO CASE LESS THAN 12".
  3. PRESSURE RATING OF THE PIPES TO BE C 900 FOR PIPE SIZE UP TO 12" AND C 905 FOR PIPE SIZE GREATER THAN 12".
  4. TRACER WIRE (C/S 12-AWG) SHALL BE INSTALLED ON ALL WATER LINES, RECLAIMED WATER LINES AND WASTEWATER FORCE MAINS. TRACER WIRE TEST STATIONS (COPPERHEAD SNAKEBIT MODEL SD14\*2T-SW) SHALL ALSO BE INSTALLED AT INTERVALS NOT TO EXCEED 1,000'. PLEASE CONTACT THE CITY OF KYLE PUBLIC WORKS DEPT FOR DETAILS AND SPECIFICATIONS.

PIPELINE EMBEDMENT DETAIL



- NOTES:**
1. SINGLE 1" OR SMALLER METER - EAST JORDAN METER BOX MODEL # 34P14 (LID MODEL # NPR14 - 914 A).
  2. DUAL 1" OR SMALLER METER - EAST JORDAN METER BOX MODEL # R65 DOUBLE (LID MODEL # NPR14 - 941C).
  3. 1.5" AND 2" METERS - EAST JORDAN METER BOX MODEL # 32417300 (LID MODEL # 32131774401).
  4. 2" METER TO BE INSTALLED BY CITY. 3" METER COORDINATE WITH CITY OF KYLE PUBLIC WORKS DIRECTOR.

METER SETTING DETAIL



- NOTES:**
1. CASING MUST EXTEND AT LEAST 1' BEYOND SIDEWALK.
  2. PIPING MUST GO 2' BEFORE VERTICAL BEND.

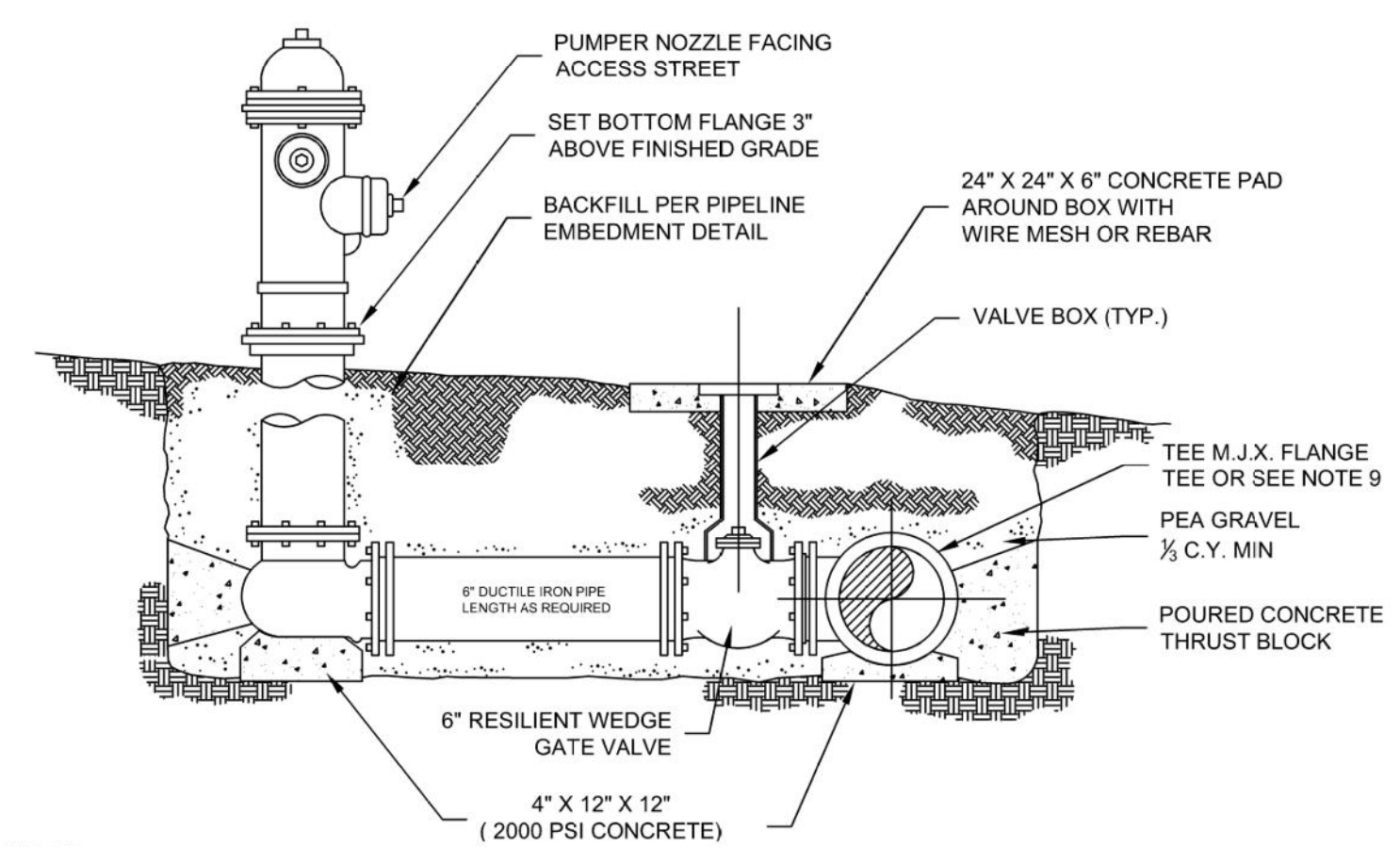
**SHORT SIDE AND LONG SIDE SINGLE SERVICE:**

1. 1" DOUBLE STRAP SERVICE SADDLE - SMITH BLAIR OR APPROVED EQUAL.
2. 1" CORPORATION STOP - MUELLER OR APPROVED EQUAL.
3. 1" 200 PSI POLYETHYLENE TUBING
4. 4" SDR 26 IPS WHITE PVC CASING (LONG SIDE SERVICE ONLY)
5. 1" X 1/2" ANGLE STOP VALVE (LOCKING WING TYPE)
6. ALL BRASS FITTING.

**SHORT SIDE AND LONG SIDE DOUBLE SERVICE:**

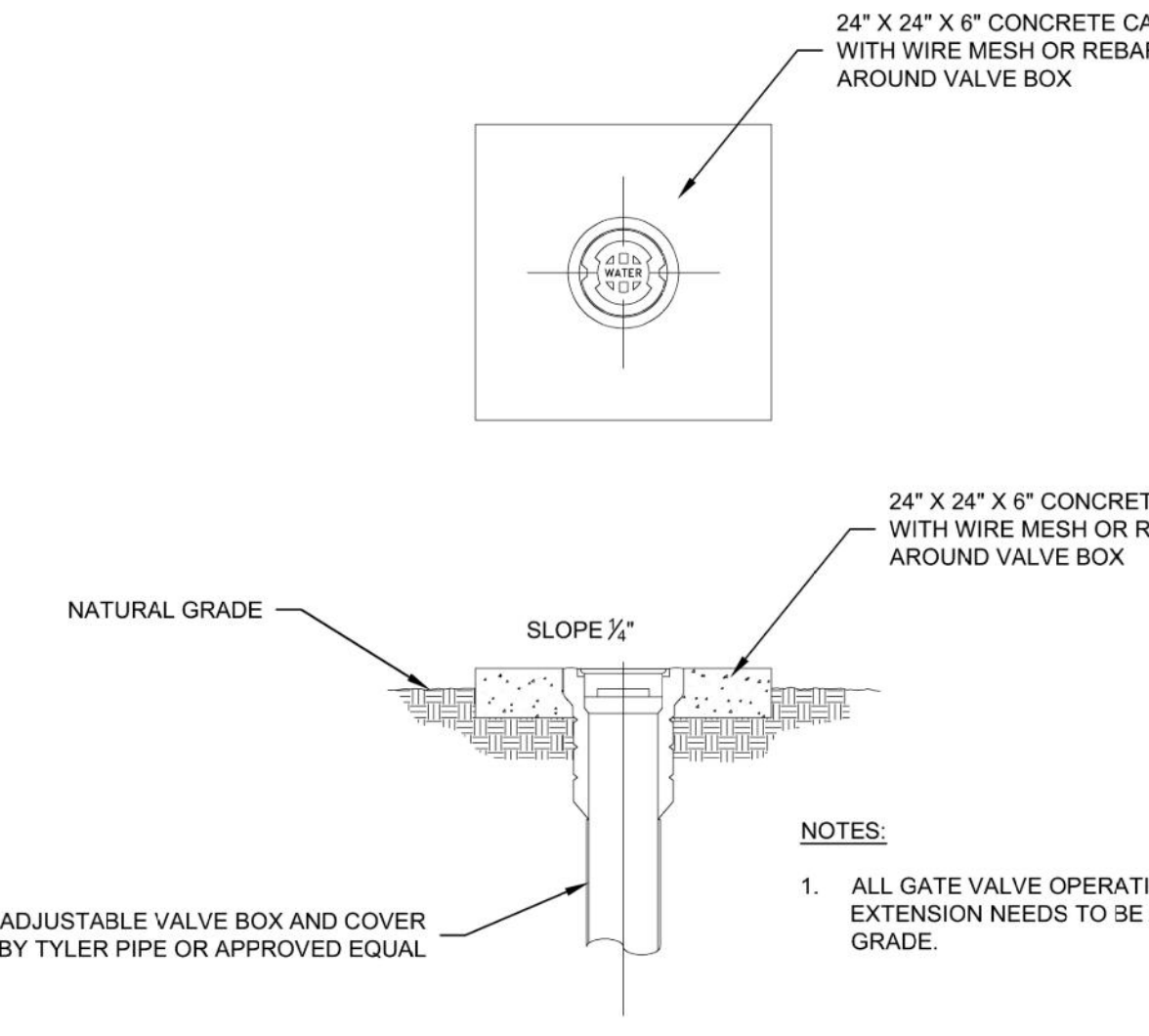
1. 1 1/2" DOUBLE STRAP SERVICE SADDLE - SMITH BLAIR OR APPROVED EQUAL.
2. 1 1/2" CORPORATION STOP - MUELLER OR APPROVED EQUAL.
3. 1 1/2" 200 PSI POLYETHYLENE TUBING
4. 4" SDR 26 IPS WHITE PVC CASING (LONG SIDE SERVICE ONLY)
5. 1 1/2" X 1" X 1" U - BRANCH (COMPRESSION FITTINGS)
6. 2 - 1" X 3/4" ANGLE STOP VALVE (LOCKING WING TYPE)
7. ALL BRASS FITTING.

METER SETTING DETAIL



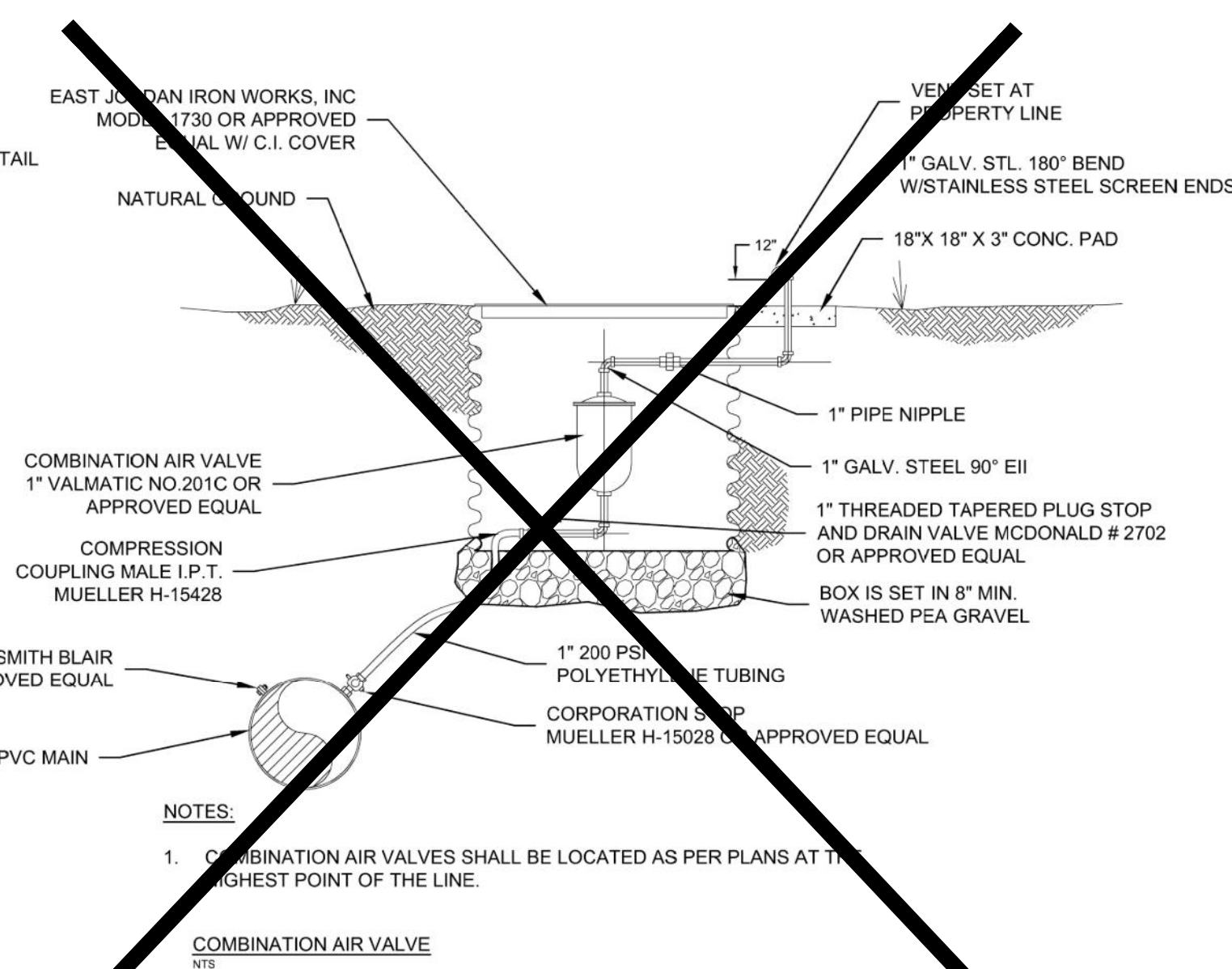
- NOTES:**
1. A 3 FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF FIRE HYDRANTS EXCEPT AS OTHERWISE REQUIRED OR APPROVED.
  2. FIRE HYDRANT SHALL BE INSTALLED ON SAME SIDE OF ROAD AS WATER MAIN UNLESS APPROVED BY CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
  3. FIRE HYDRANT SHALL BE INSTALLED PLUMB AND TRUE.
  4. ALL FIRE HYDRANT EXTERIOR SHALL BE FACTORY PRIMED AND PAINTED RED USING A HIGH GRADE ENAMEL.
  5. BELL AND THRUST BLOCKS TO REST IN UNDISTURBED SOIL.
  6. FOR ACCEPTABLE FIRE HYDRANTS SEE CITY OF AUSTIN STANDARD PRODUCT LIST.
  7. ALL METALLIC PIPES AND FITTINGS SHALL BE WRAPPED WITH 8 MIL POLYETHYLENE FILM.
  8. ENSURE ALL BOLTS ARE UNOBSTRUCTED BY CONCRETE.
  9. M.J.X. SWIVEL MAY BE REQUIRED BASED ON PROJECT SPECIFIC SITE CONDITION.
  10. PRIVATELY OWNED AND MAINTAINED FIRE HYDRANTS SHALL BE PAINTED SILVER.

FIRE HYDRANT ASSEMBLY



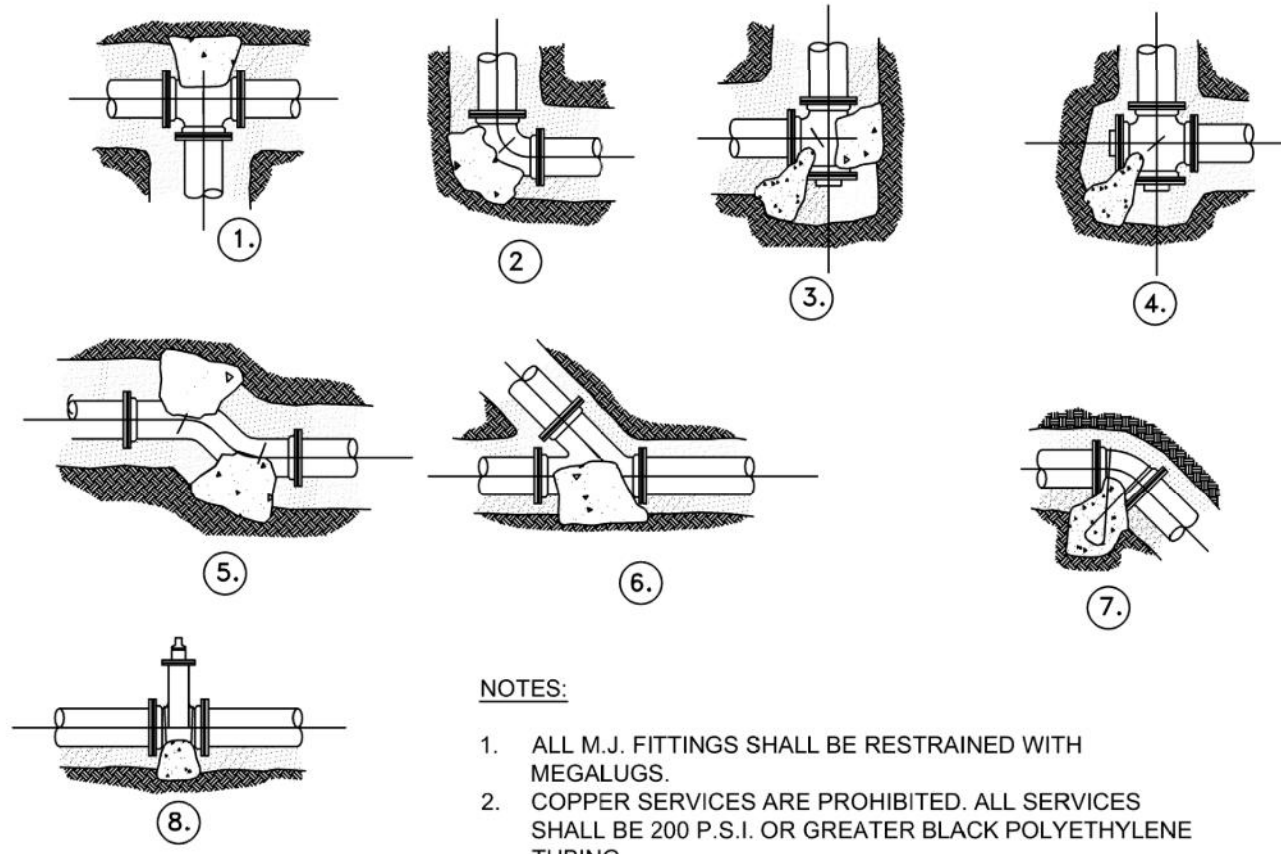
- NOTES:**
1. ALL GATE VALVE OPERATING NUT OR VALVE EXTENSION NEEDS TO BE AT 24" TO FINAL GRADE.

GATE VALVE & BOX DETAILS

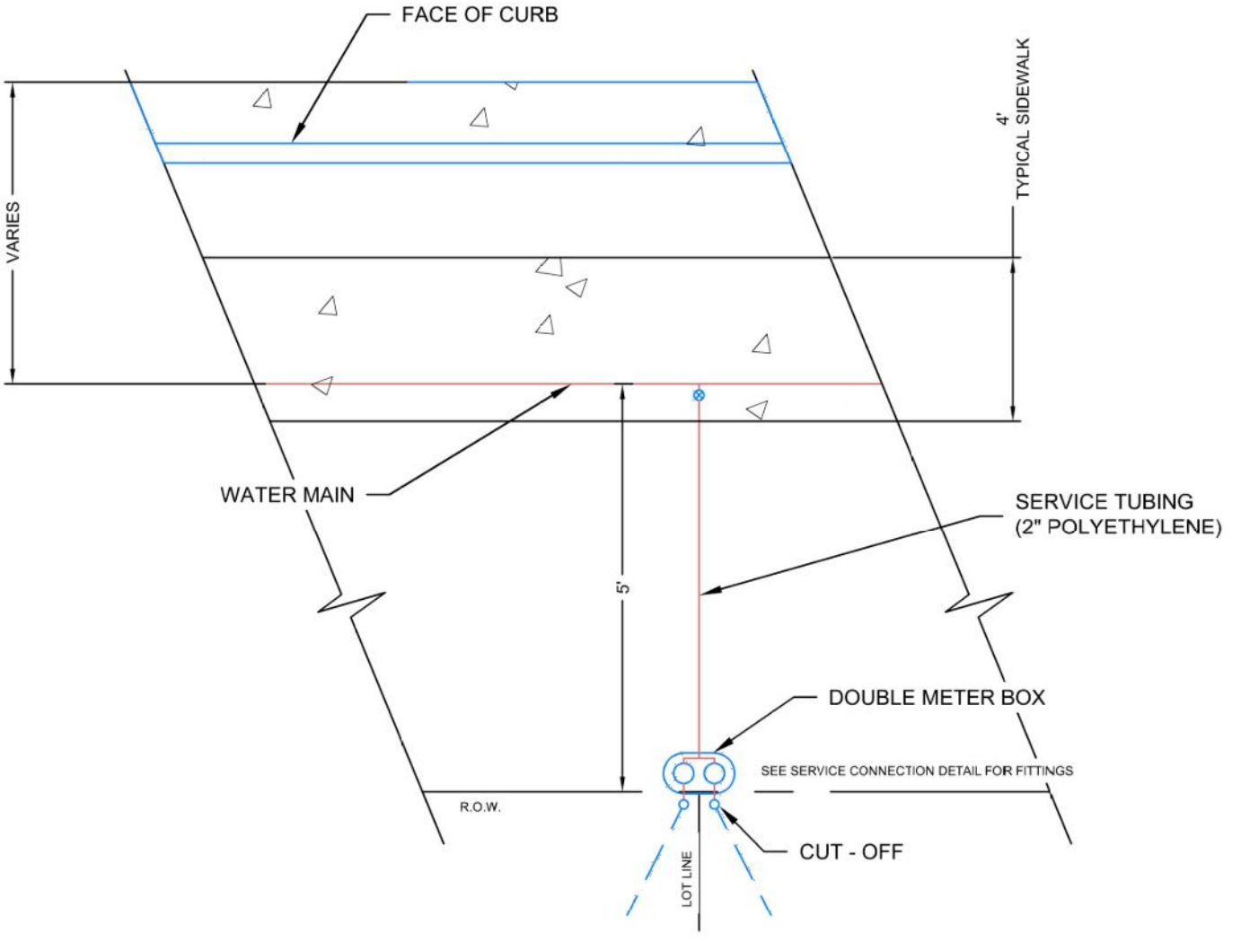


- NOTES:**
1. COMBINATION AIR VALVES SHALL BE LOCATED AS PER PLANS AT THE HIGHEST POINT OF THE LINE.

COMBINATION AIR VALVE

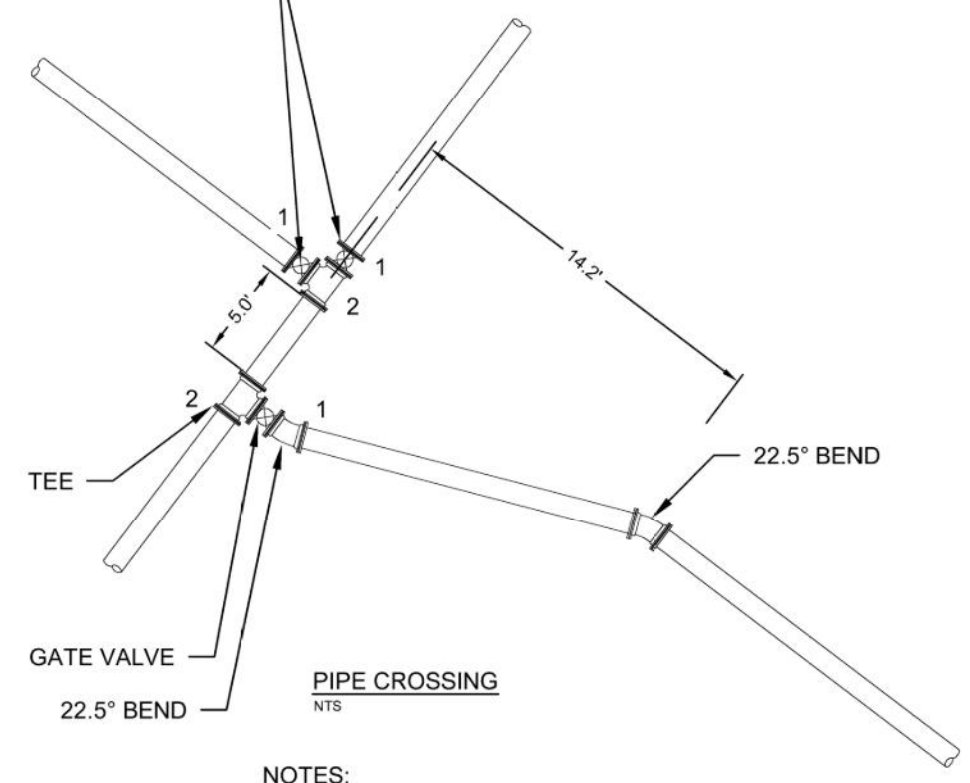


- NOTES:**
1. ALL M.J. FITTINGS SHALL BE RESTRAINED WITH MEGALUGS
  2. COPPER SERVICES ARE PROHIBITED. ALL SERVICES SHALL BE 200 P.S.I. OR GREATER BLACK POLYETHYLENE TUBING.
  3. ALL BRASS FITTINGS SHALL CONFORM TO U.S. PUBLIC LAW 111-380 ("REDUCTION OF LEAD IN DRINKING WATER ACT").
  4. WRAP ALL METALLIC FITTINGS WITH 8 MIL POLYETHYLENE IN ACCORDANCE WITH ANSI/AWWA A 21.5/C 105.
  5. REFER CITY OF AUSTIN STANDARD DETAILS (STANDARD NO. 510-6) FOR DIMENSION AND DESIGN OF THRUST BLOCKS. FOR ALL OTHER CONDITION THAN IT IS SPECIFIED IN STANDARD DETAILS, SIZE OF THRUST BLOCKS MUST BE COMPUTED AND APPROVED BY ENGINEER.
  6. ENSURE ALL BOLTS ARE UNOBSTRUCTED BY CONCRETE.



TYPICAL WATER SERVICE PLAN

- NOTES:**
1. DRY AND WET UTILITIES SHOULD NOT BE LOCATED AT SAME LOT LINE.



- NOTES:**
1. MJ - MECHANICAL JOINT.
  2. FL - FLANGE.

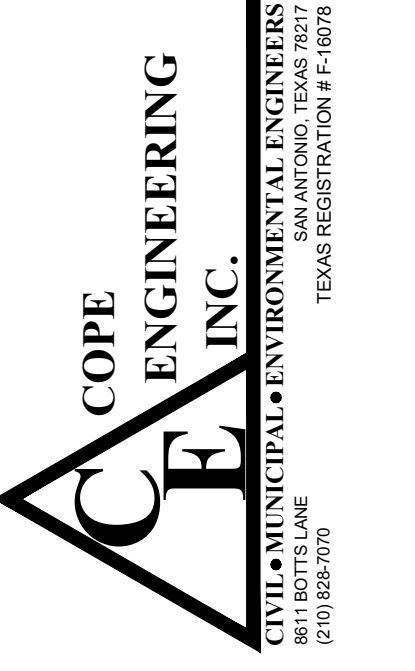
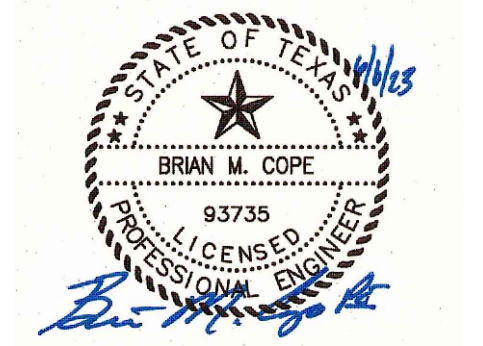
PIPE CROSSING



CITY OF KYLE  
ENGINEERING DEPARTMENT  
100 W CENTER STREET  
KYLE, TX 78640  
PH (512) 262-3865

STANDARD WATER DETAILS

CITY OF KYLE  
ENGINEERING DEPARTMENT  
100 W CENTER STREET  
KYLE, TX 78640  
PH (512) 262 1010



1	PERMIT SET	06/05/23
No.	DESCRIPTION	DATE



**KHIT**  
**CHIROPRACTIC**  
**WELLNESS**

KYLE, TX  
2022-008  
WATER DETAILS

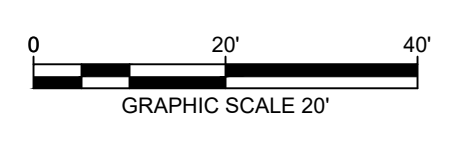
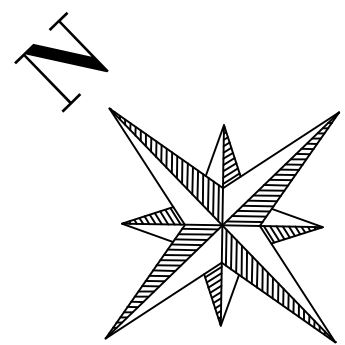
DT - 1

C4.02









**LEGEND**

→	FLOW DIRECTION	660.50	SPOT ELEVATION
---	FINISH FLOOR ELEVATION	660	PROPOSED CONTOURS
---	TOP OF CURB	HP	HIGH POINT
---	SIDEWALK	---	EXISTING 1-FT. CONTOURS
---	GUTTER	---	PROPOSED ACCESSIBLE RAMP
---	FLOW LINE	---	6 L.F. UNLESS OTHERWISE NOTED
---	BOTTOM OF WALL	---	

**SITE INFORMATION**

<b>GENERAL SITE DATA</b>		R/S
ZONING	RETAIL & SERVICE DISTRICT	
LAND USE	RETAIL & SERVICE DISTRICT	
SITE AREA	1.24-ACRES	
BUILDING AREA	PROP. BUILDING = 5,580 S.F.	
BUILDING HEIGHT	SINGLE STORY, 24'-0"	
<b>PARKING SUMMARY</b>		
PROVIDED:		
STANDARD (9'X18')		26 SP.
HANDICAP ACCESSIBLE		4 SP.
TOTAL		30 SP.

**PROPERTY DESCRIPTION**

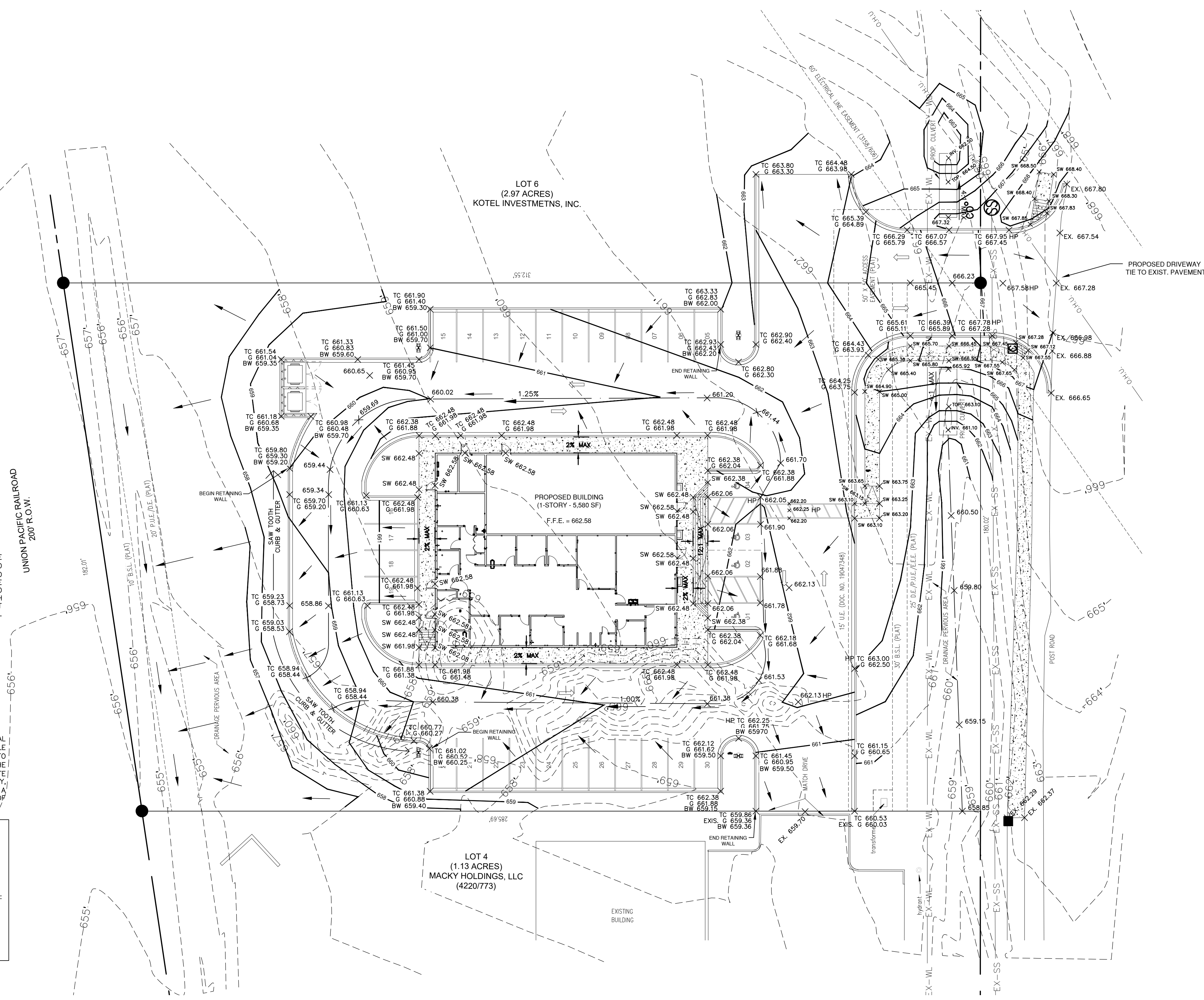
1.24 ACRES (54,015 SQ.FT.)  
 LOT 5 - IH 35 CORRIDOR CORNER  
 CITY OF KYLE, TEXAS  
 HAYS COUNTY, TEXAS

**PROJECT BENCHMARK:**  
 SQUARE IN THE NORTHEAST END OF CONCRETE  
 SIDEWALK, ±9.4' SOUTHWEST OF SUBJECT SITE'S  
 SOUTHWEST PROPERTY CORNER  
 ELEVATION = 662.26' NAVD88

**NOTES:**

1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
2. REFERENCE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
3. REFERENCE LANDSCAPE PLANS FOR COMPLIANCE WITH CITY OF KYLE LANDSCAPE ORDINANCE AND TREE PRESERVATION PLAN.
4. NO SLOPE SHALL EXCEED 2% IN ANY DIRECTION WITHIN HANDICAP SPACES.
5. NO ACCESSIBLE ROUTES SHALL EXCEED A RUNNING SLOPE GREATER THAN 1:20.
6. SIDEWALKS SHALL NOT EXCEED 2% CROSS SLOPE AND 5% RUNNING SLOPE.
7. ALL CONCRETE CURBS SHALL BE 6" UNLESS OTHERWISE NOTED ON PLAN.

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER OF RECORD. IN ACCEPTING THESE PLANS, THE CITY OF KYLE MUST RELY UPON THE ADEQUACY OF THE WORK OF THE ENGINEER OF RECORD.



**UTILITY TRENCH COMPACTION**

ALL UTILITY TRENCH COMPACTION TESTS WITHIN THE STREET PAVEMENT SECTION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER'S GEO-TECHNICAL ENGINEER. FILL MATERIAL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED TWELVE INCHES (12") LOOSE. EACH LAYER OF MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% DENSITY AND TESTED FOR DENSITY AND MOISTURE IN ACCORDANCE WITH TEST METHODS TEX-113-E, TEX-114-E, TEX-115-E. THE NUMBER AND LOCATION OF REQUIRED TESTS SHALL BE DETERMINED BY THE GEO-TECHNICAL ENGINEER AND APPROVED BY THE CITY OF KYLE STREET INSPECTOR. AT A MINIMUM, TESTS SHALL BE TAKEN EVERY 100LF FOR EACH LIFT. UPON COMPLETION OF TESTING THE GEO-TECHNICAL ENGINEER SHALL PROVIDE THE CITY OF KYLE STREET INSPECTOR WITH ALL TESTING DOCUMENTATION AND A CERTIFICATION STATING THAT THE PLACEMENT OF FILL MATERIAL HAS BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.

THE EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. SOME OF THE LOCATIONS WERE DETERMINED FROM MAPS PROVIDED BY THE RESPECTIVE UTILITY OWNER AND ARE NOT GUARANTEED. UTILITIES NOT SHOWN ON THIS DRAWING MAY EXIST. THE CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY OWNER FOR FIELD VERIFICATION AND IS RESPONSIBLE FOR ANY DAMAGES TO AND FOR MAINTENANCE AND PROTECTIONS OF ALL EXISTING UTILITIES. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH EACH UTILITY OWNER 72 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL CALL A UTILITY LOCATOR FOR GENERAL UTILITY LOCATIONS.

**TRENCH EXCAVATION SAFETY PROTECTION**

CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION THAT COMPLIES WITH, AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

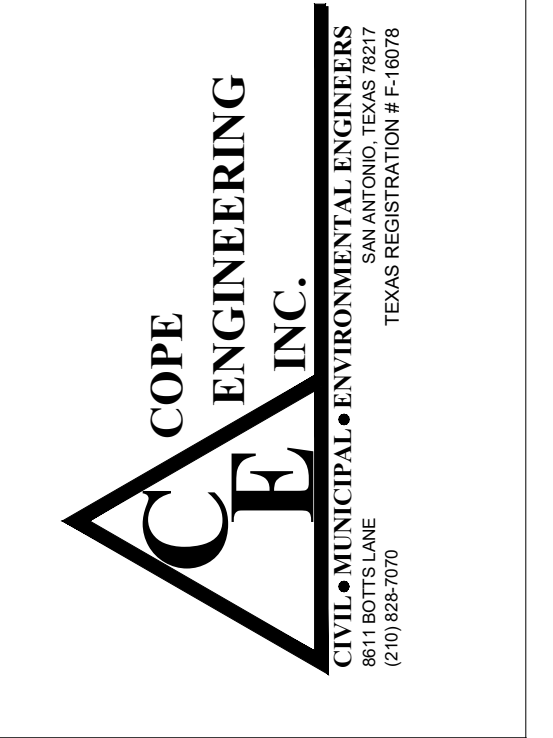
**CALL AT LEAST 48 HOURS BEFORE DIGGING**

AS OF OCT 1, 1998, IT IS TEXAS STATE LAW THAT YOU CONTACT A ONE-CALL SYSTEM BEFORE EXCAVATING

ONE-CALL SYSTEM OF TEXAS	DIG TESS	LONE STAR NOTIFICATION	TEXAS ONE-CALL
1-800-545-8005	1-800-344-8377	1-800-669-8344	1-800-245-4545

A FEDERAL LAW NOW IN EFFECT ALSO STATES THAT ANY PERSON WHO ENGAGES IN EXCAVATION ACTIVITIES WITHOUT FIRST USING AN AVAILABLE ONE-CALL NOTIFICATION SYSTEM TO DETERMINE LOCATIONS OF UNDERGROUND FACILITIES OR WITHOUT HEEDING LOCATION INFORMATION OR MARKINGS AND SUBSEQUENTLY DAMAGES AN UNDERGROUND FACILITY SHALL BE SUBJECT TO A FINE, IMPRISONMENT, OR BOTH. THE LAW ALSO STATES THAT OSHA MAY BE NOTIFIED OF ANY ACCIDENT CAUSED BY AN EXCAVATOR.

**LOCAL UTILITY AGENCIES:**  
 KYLE UTILITIES WATER, SEWER 512-262-3024



1	PERMIT SET	06/05/23
No.	DESCRIPTION	DATE

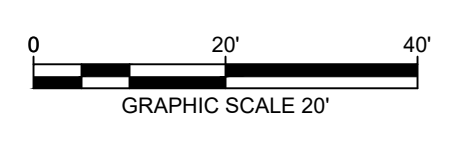
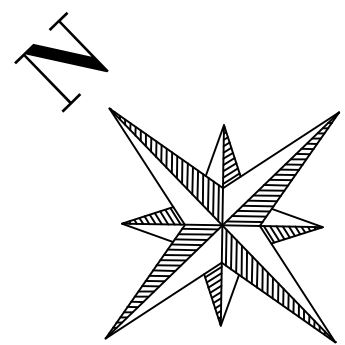


**KHIT CHIROPRACTIC WELLNESS**

KYLE, TX  
 2022-008  
 PROP. SITE GRADING PLAN

C5.01





**LEGEND**

- PROPERTY LINE
- - - EX-SS EXISTING SANITARY SEWER
- - - EX-WL EXISTING WATER LINE
- - - O.H.U. EXISTING OVERHEAD UTILITIES
- ⊗ EXISTING SAN. SEWER MANHOLE
- ⊗ EXISTING FIRE HYDRANT
- ▨ PROP. ACCESSIBLE RAMP
- ▨ PROPOSED CONCRETE SIDEWALK
- ▨ PROP. IMPERVIOUS COVER

**PROPERTY DESCRIPTION**

1.24 ACRES (54,015 SQ.FT.)  
 LOT 5 - IH 35 CORRIDOR CORNER  
 CITY OF KYLE, TEXAS  
 HAYS COUNTY, TEXAS

**PROJECT BENCHMARK:**  
 SQUARE IN THE NORTHEAST END OF CONCRETE  
 SIDEWALK, ±9.4' SOUTHWEST OF SUBJECT SITE'S  
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<b>GENERAL SITE DATA</b>	
ZONING	R/S
LAND USE	RETAIL & SERVICE DISTRICT
SITE AREA	1.24-ACRES
BUILDING AREA	PROP. BUILDING = 5,580 S.F.
BUILDING HEIGHT	SINGLE STORY, 24'-0"

**POST-DEVELOPMENT IMPERVIOUS COVER SUMMARY TABLE**

DESCRIPTION	SQ.FT.	SQ.FT./ACRE	ACRES
PROP. BUILDING IMPER. COVER	5,580	/ 43,560	0.128
PROP. SIDEWALKS/DRIVEWAY IMPER. COVER	25,642	/ 43,560	0.589
TOTAL POST-DEVELOPMENT IMPER. COVER	31,222	/ 43,560	0.717

**PLAT ALLOWABLE VS. POST-DEVELOPMENT IMPERVIOUS COVER SUMMARY TABLE**

DESCRIPTION	SQ.FT.	SQ.FT./ACRE	ACRES	% IMPERVIOUS COVER (1.24 ACRE SITE)
PROP. SITE IMPER. COVER	31,222	/ 43,560	0.717	58%
ALLOWABLE IMPER. COVER PER PLAT	40,511	/ 43,560	0.930	75%
EXCEED ALLOWABLE IMPERVIOUS COVER?	NO		NO	NO

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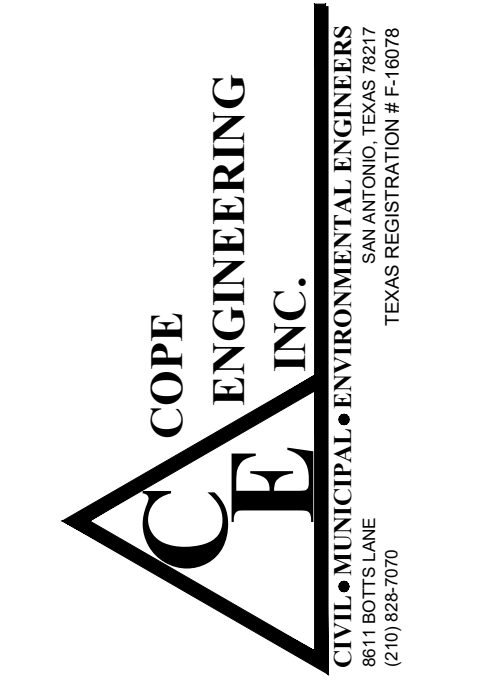
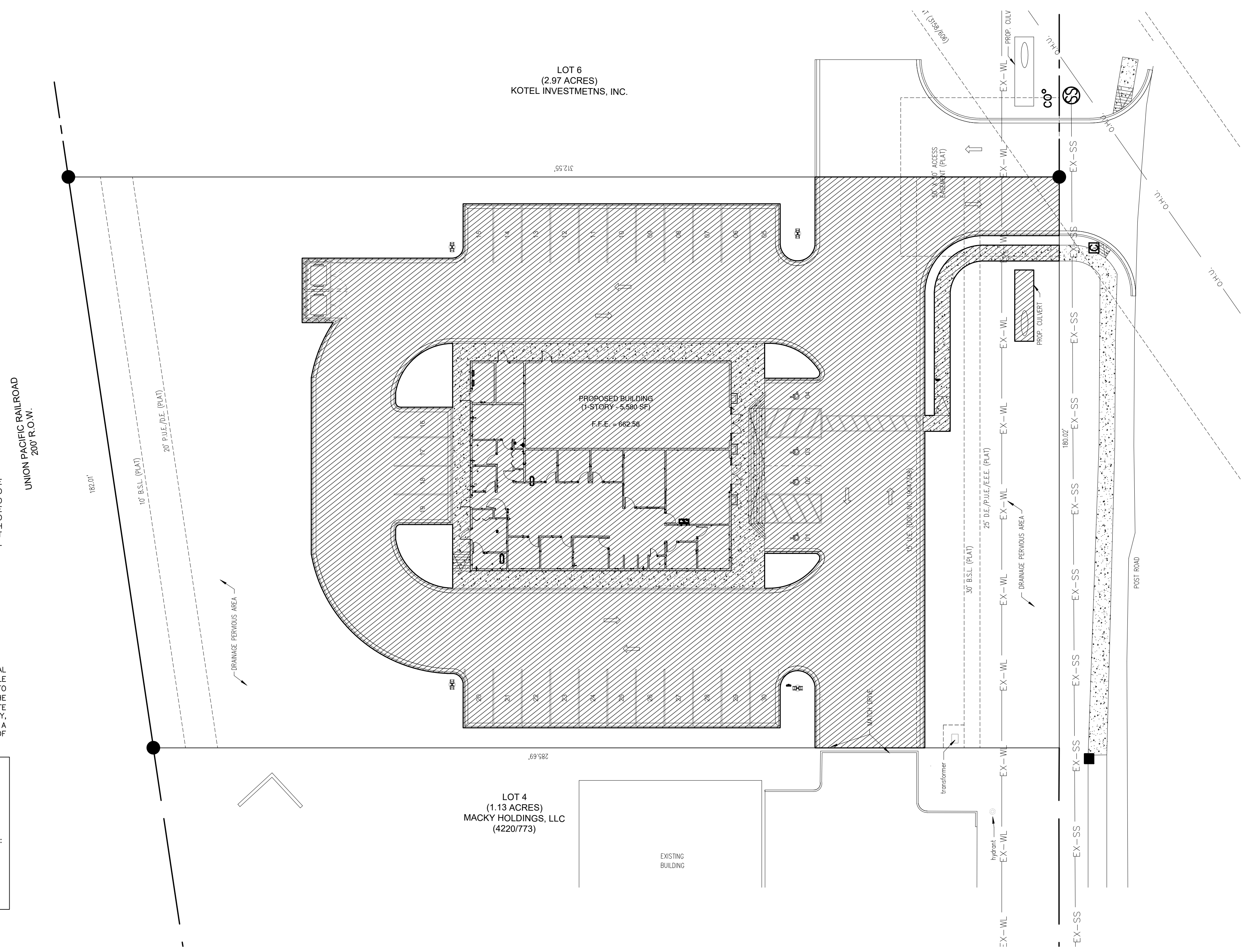
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1	PERMIT SET	06/05/23
No.	DESCRIPTION	DATE

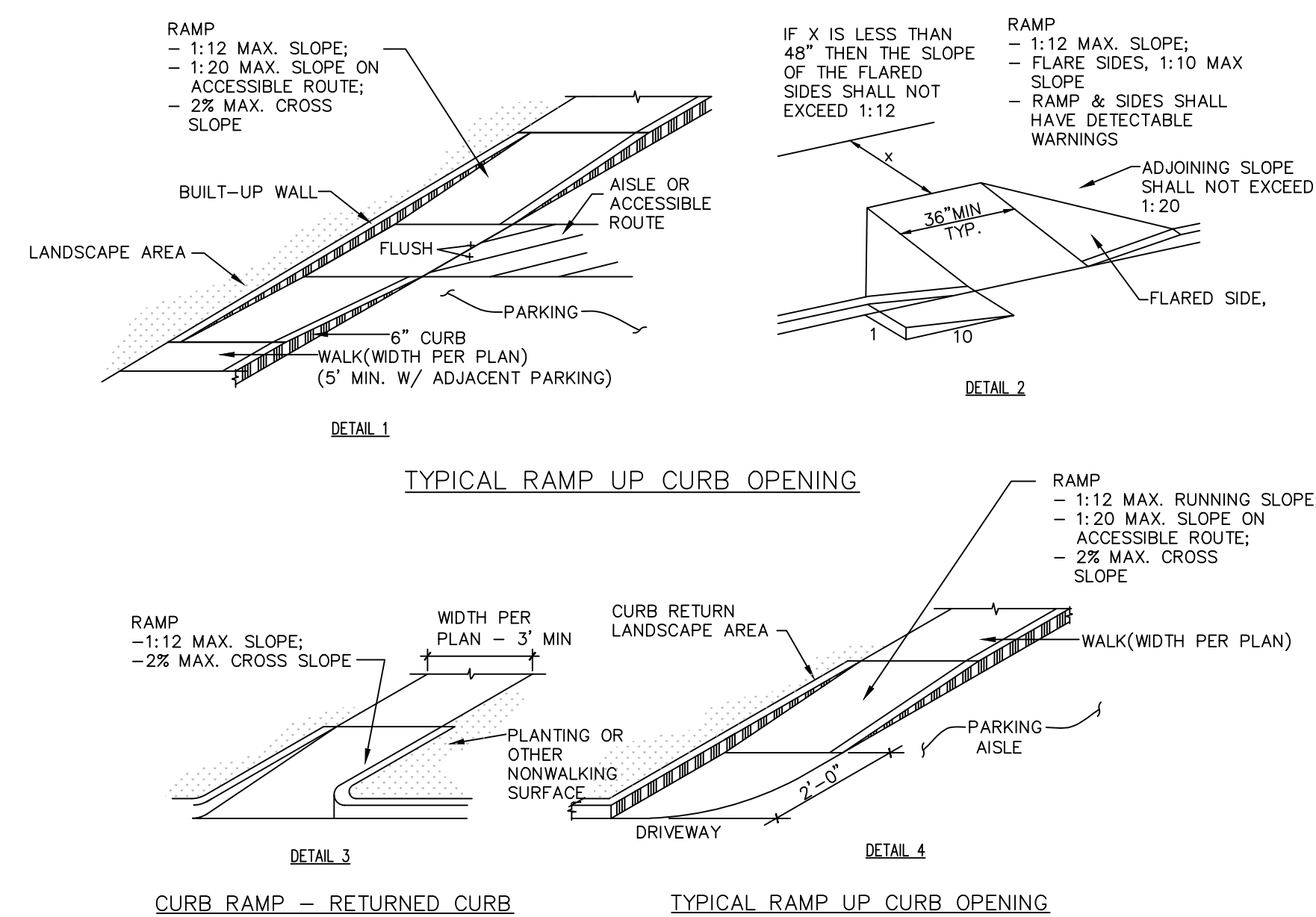
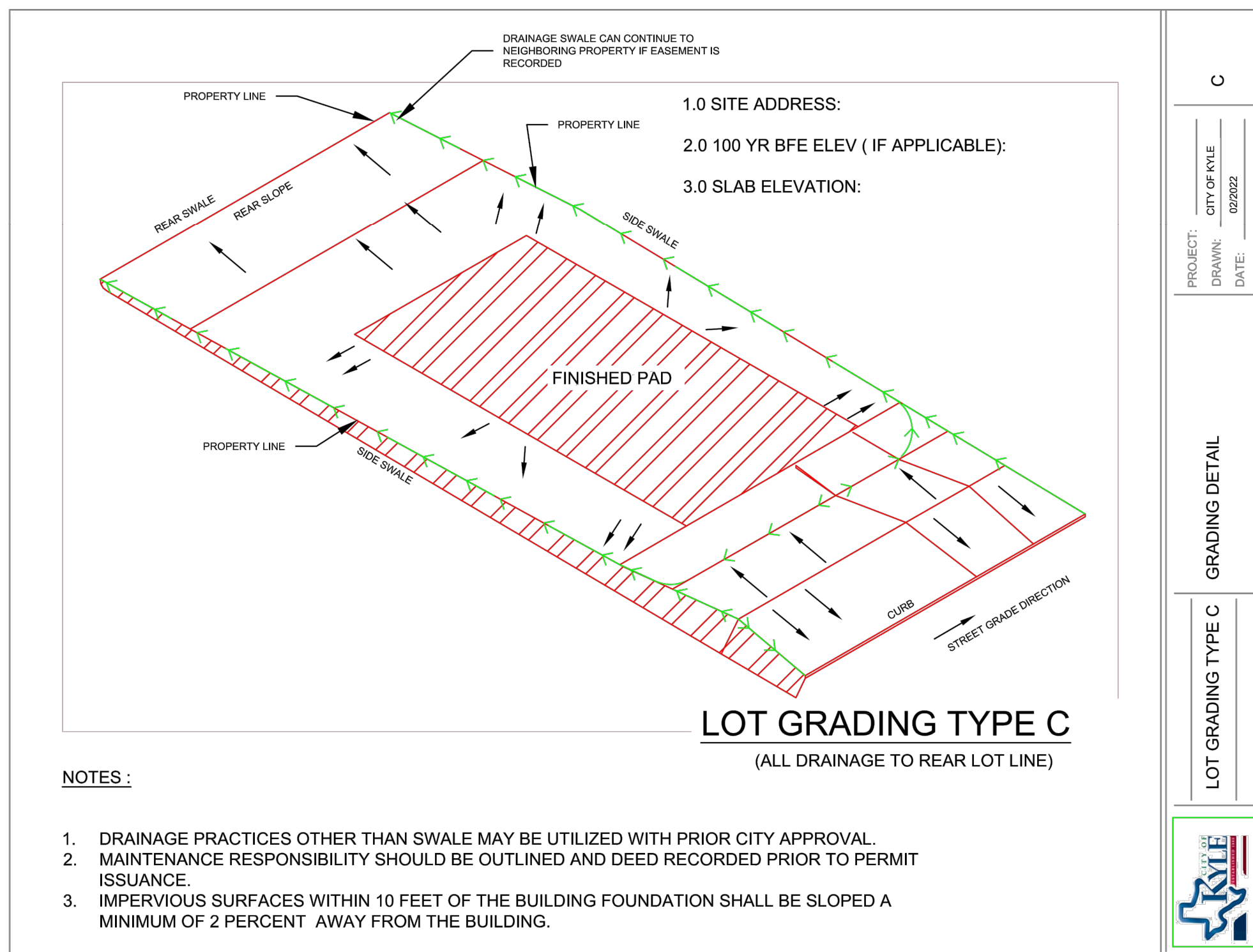


**KHIT CHIROPRACTIC WELLNESS**

KYLE, TX  
 2022-008  
 IMPERVIOUS COVER PLAN

C5.02





**TAS SECTION 4.7.2 - SLOPE**  
MAXIMUM SLOPES OF CURB RAMPS SHALL NOT EXCEED 1:12.  
A. MAXIMUM SLOPES OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP, OR ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20.

**TAS SECTION 4.7.3 - WIDTH**  
A. THE MINIMUM WIDTH OF A CURB RAMP SHALL BE 36", EXCLUSIVE OF FLARED SIDES.

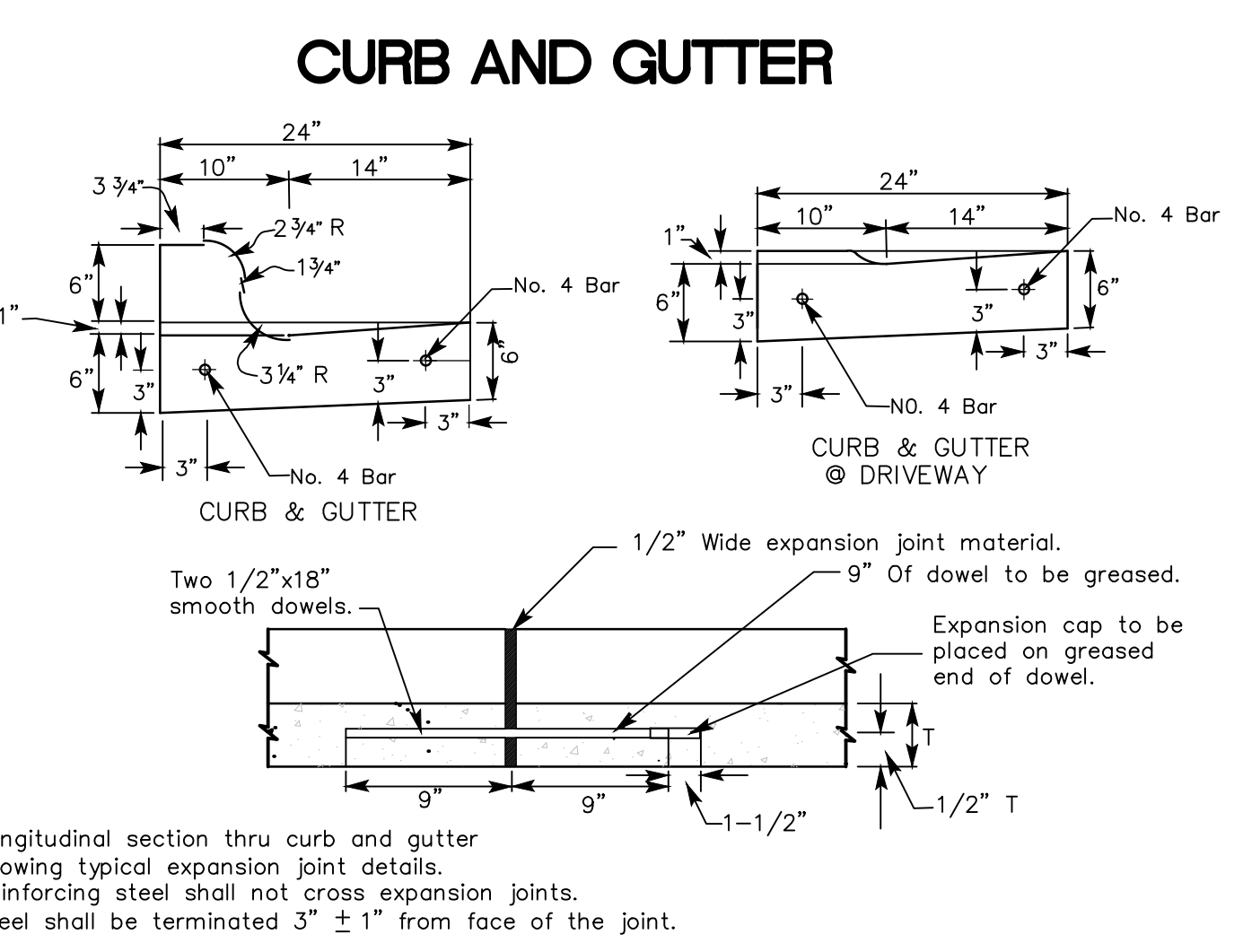
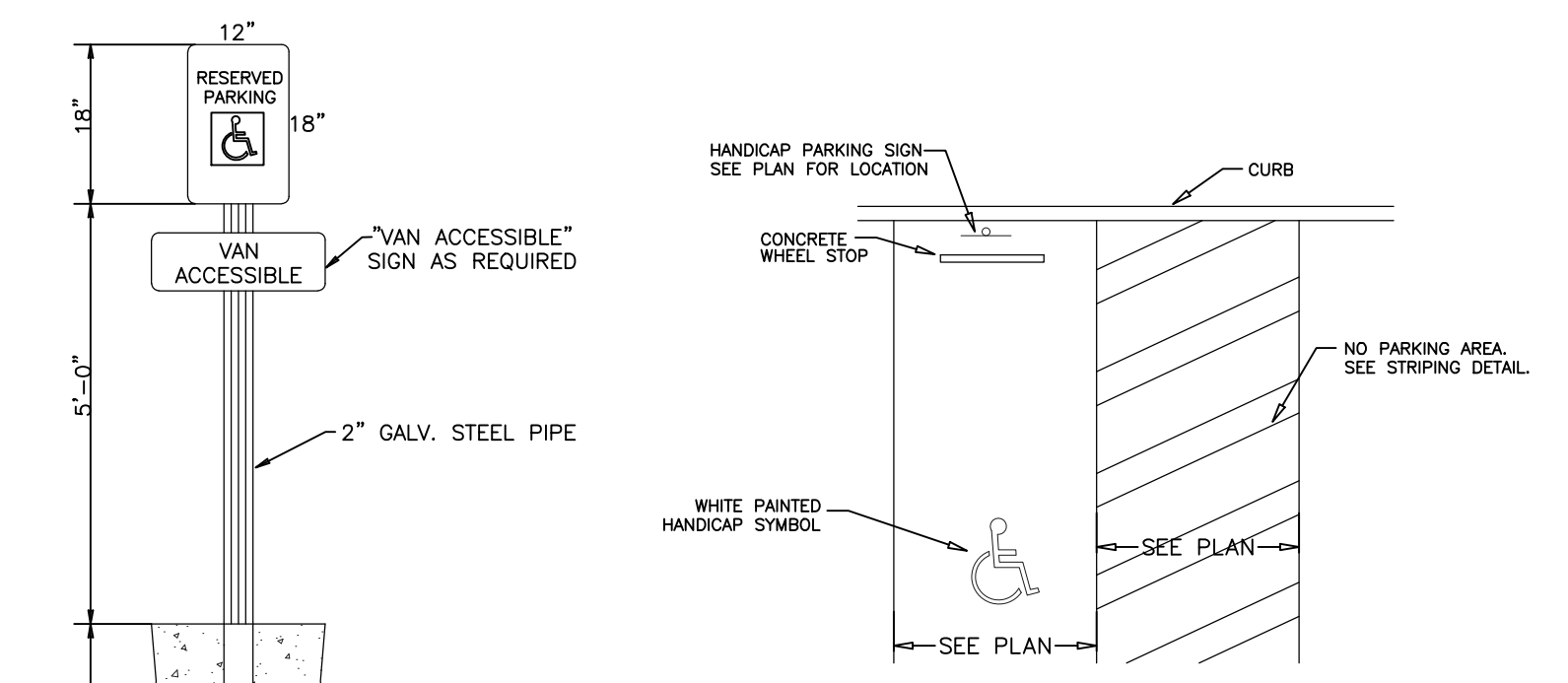
**TAS SECTION 4.7.5 - SIDES OF CURB RAMPS**  
(REFERENCE DETAILS 3.2 AND 3.3)  
A. IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP OR WHERE IT IS NOT PROTECTED BY HANDRAILS OR GUARDRAILS, IT SHALL HAVE FLARED SIDES; THE MAXIMUM SLOPE OF THE FLARE SHALL BE 1:10. CURB RAMPS WITH RETURNED CURBS MAY BE USED WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP.

**TAS SECTION 4.7.10 - DIAGONAL CURB RAMPS**  
A. IF DIAGONAL CURB RAMPS HAVE RETURNED CURBS OR OTHER WELL-DEFINED EDGES, SUCH EDGES SHALL BE PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW. THE BOTTOM OF DIAGONAL CURB RAMPS SHALL HAVE 48" MINIMUM CLEAR SPACE. IF DIAGONAL CURB RAMPS ARE PROVIDED AT MARKED CROSSINGS, THE 48" CLEAR SPACE SHALL BE WITHIN THE MARKING. IF DIAGONAL CURB RAMPS HAVE FLARED SIDES, THEY SHALL ALSO HAVE AT LEAST A 24" LONG SEGMENT OF STRAIGHT CURB LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING.

**TAS SECTION 4.7.11 - ISLANDS**  
A. ANY RAISED ISLANDS IN CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET OR HAVE CURB RAMPS AT BOTH SIDES AND A LEVEL AREA AT LEAST 48" LONG BETWEEN THE CURB RAMPS IN THE PART OF THE ISLAND INTERSECTED BY THE CROSSINGS.

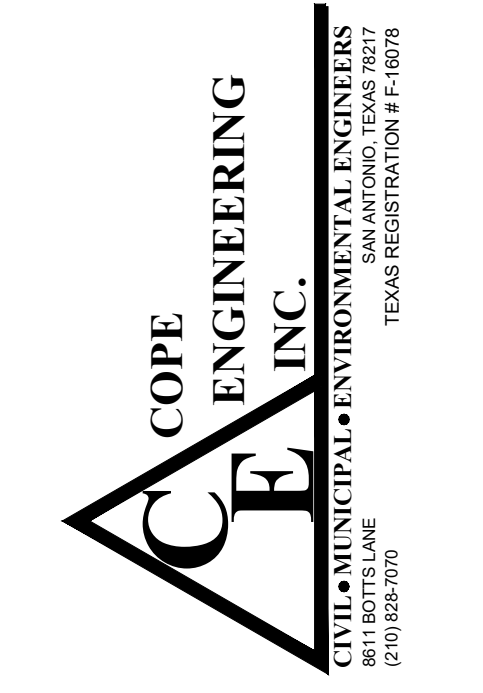
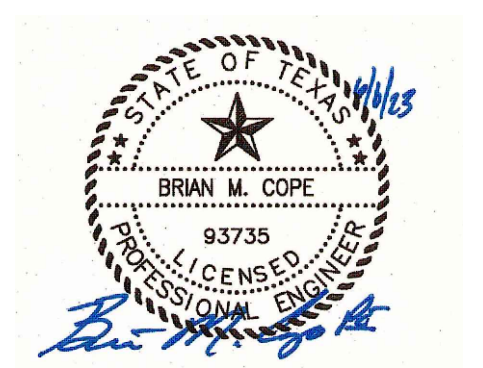
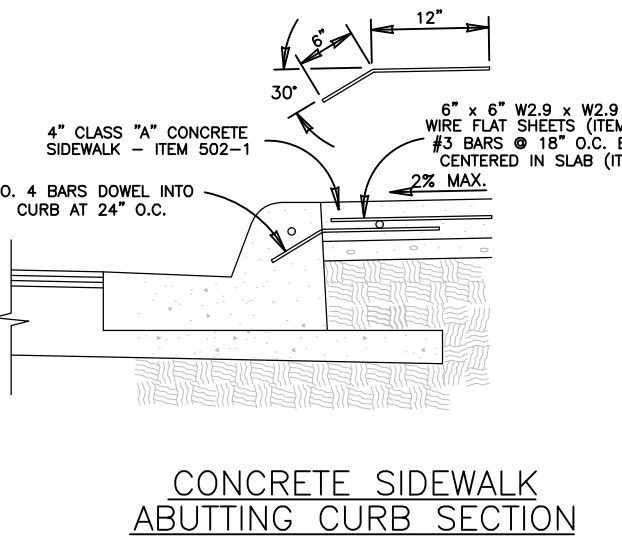
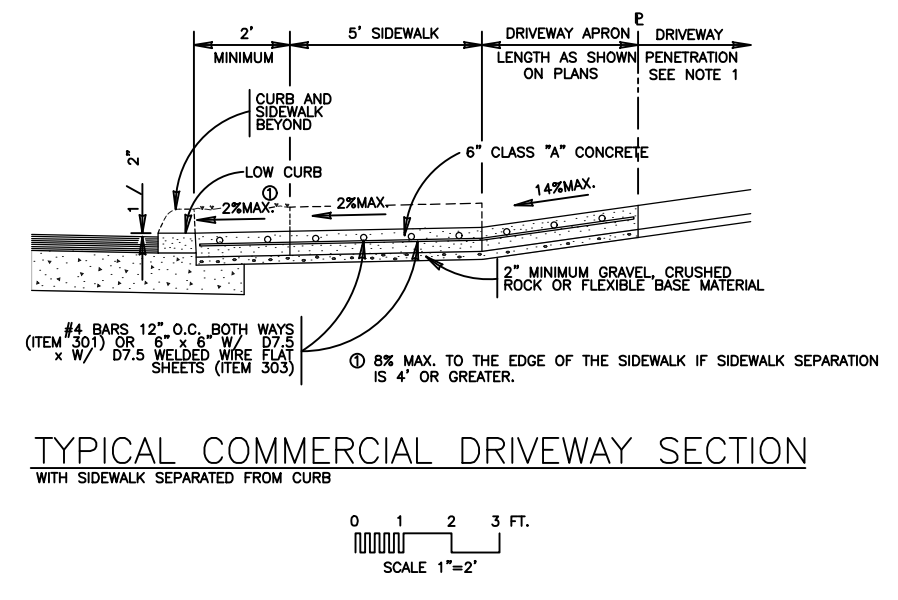
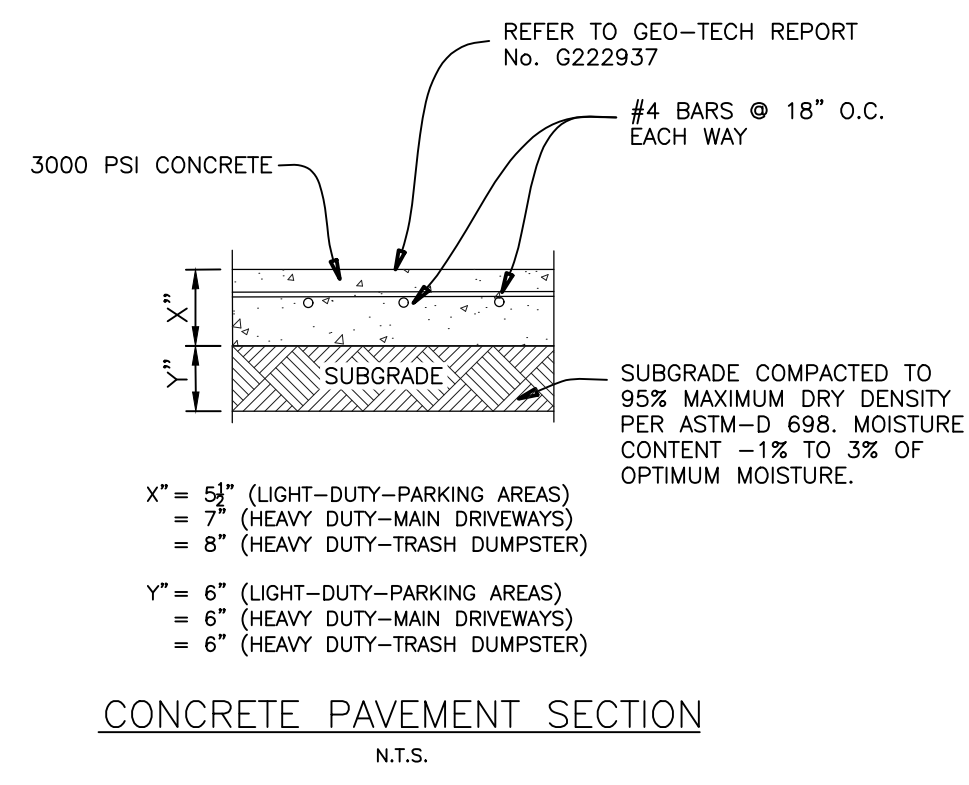
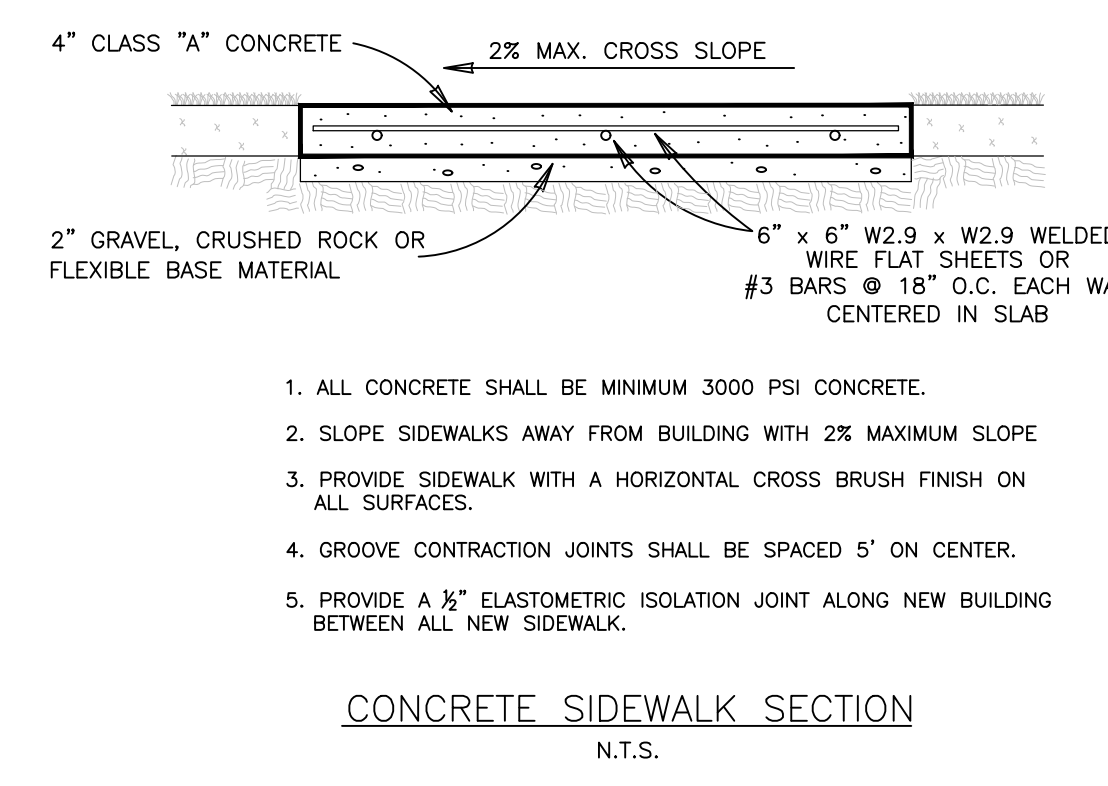
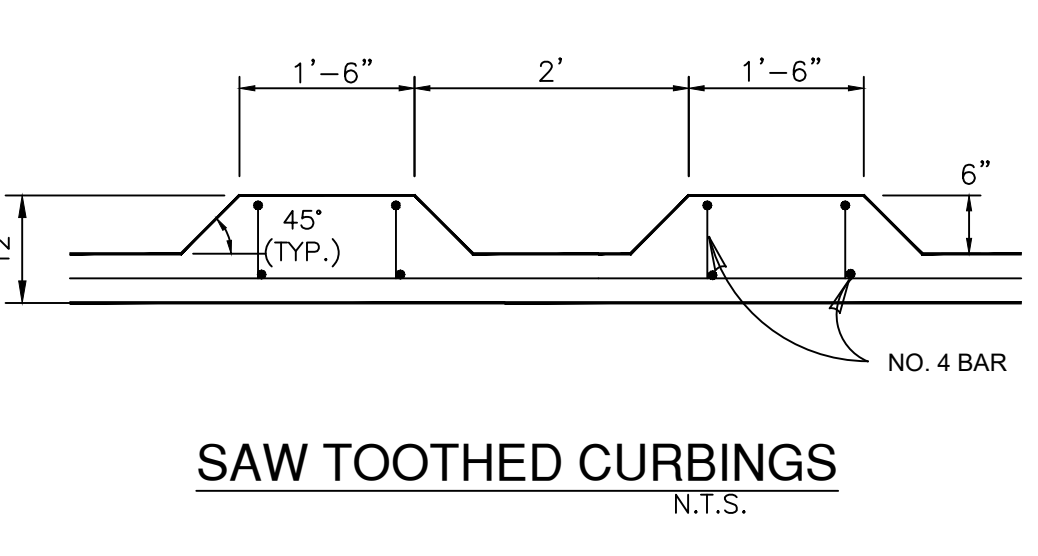
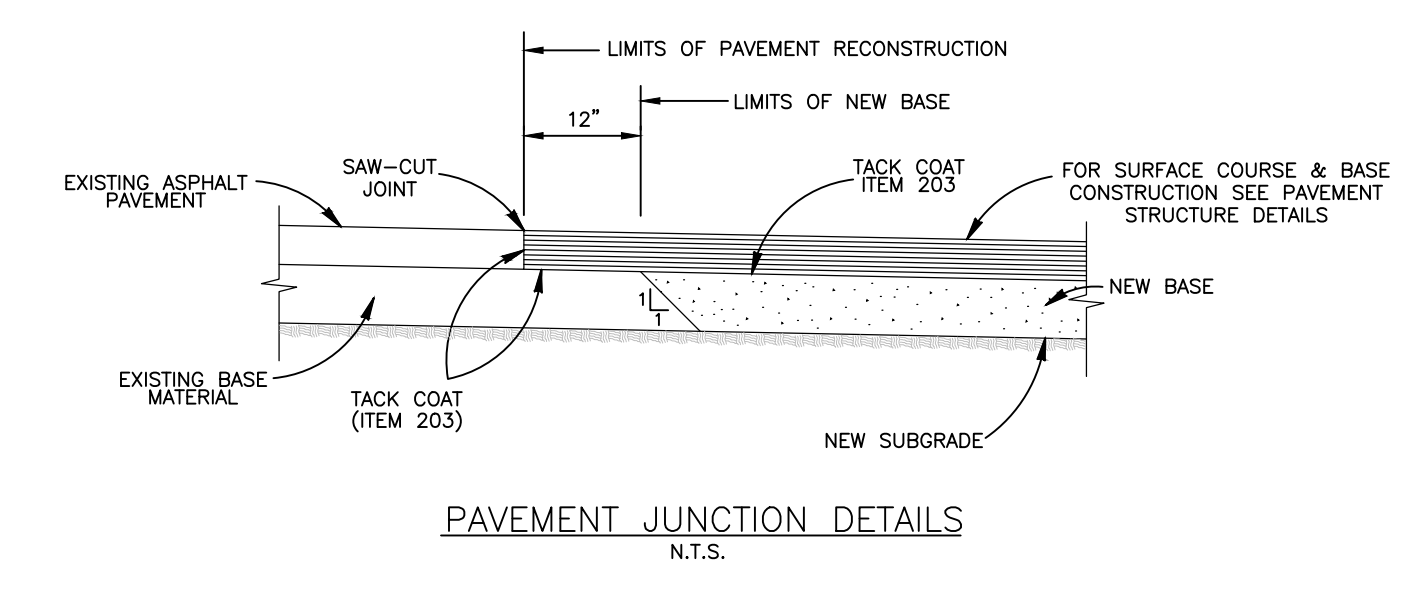
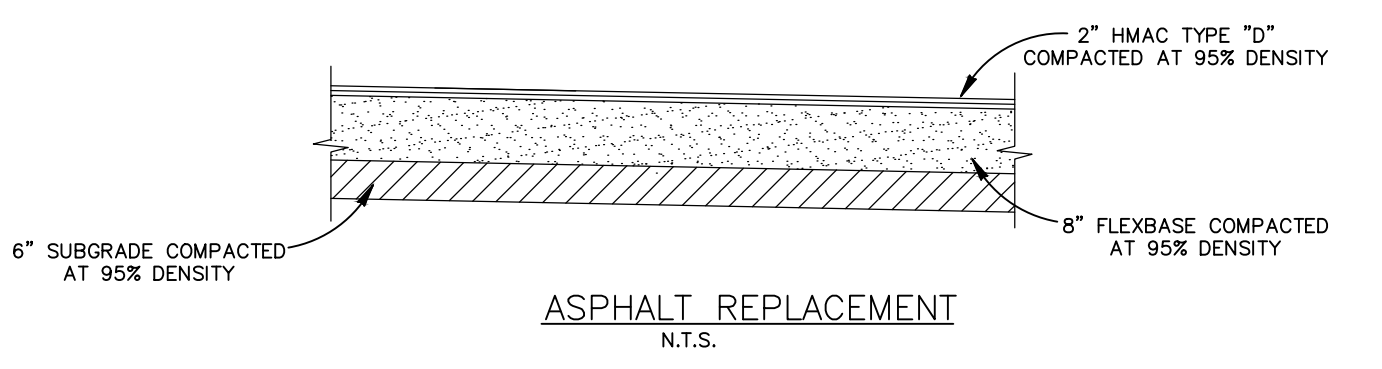
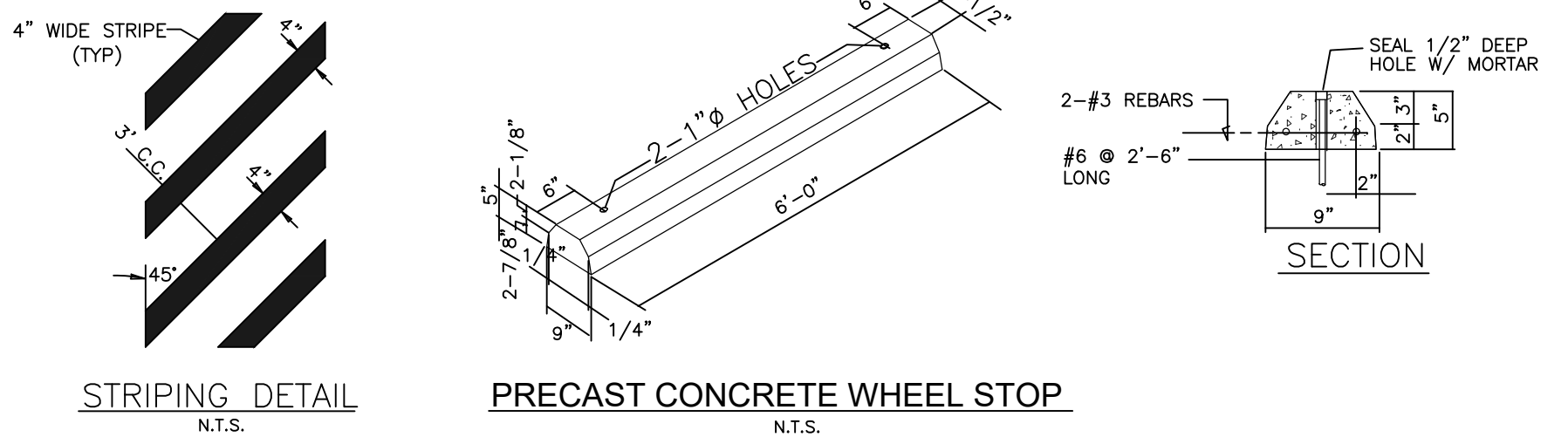
**TAS SECTION 4.7.4 - SURFACES**  
1. REFERENCE TAS 4.29.2 FOR SURFACE TEXTURES.  
2. FOR PURPOSES OF WARNING, THE FULL WIDTH AND DEPTH OF CURB RAMPS SHALL HAVE A LIGHT AND REFLECTIVE VALUE AND TEXTURE THAT SIGNIFICANTLY CONTRASTS WITH THAT OF ADJOINING PEDESTRIAN ROUTES.

**TAS SECTION 4.29.2 - DETECTABLE WARNINGS ON WALKING SURFACES**  
A. DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOWMS WITH A DIAMETER OF NOMINAL 0.9 IN., A HEIGHT OF NOMINAL 0.2 IN., AND A CENTER TO CENTER SPACING OF NOMINAL 2.35 IN., AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE.



**NOTES**

- Reinforcing bars shall be lapped a minimum of 18-in.
- Curb and gutter shall have formed tooled or sowed contraction joints at 10-ft. ±. The depth of these joints shall be sufficient to ensure cracking at the joints.
- Curb or curb and gutter shall have expansion joints at points of curvature, at intervals no greater than 120-ft. and at all adjacent structures.
- Unless otherwise shown, transitions between curbs or curbs and gutter of differing cross section shall be accomplished over a 10-ft. length or as approved by the City Engineer.
- All concrete to be Class A. 3000 psi concrete.
- All exposed concrete surfaces to be brushed smooth and uniform.



No.	PERMIT SET DESCRIPTION	DATE
1	PERMIT SET	06/05/23



**KHIT CHIROPRACTIC WELLNESS**

KYLE, TX  
2022-008  
SITE DETAILS

C5.03

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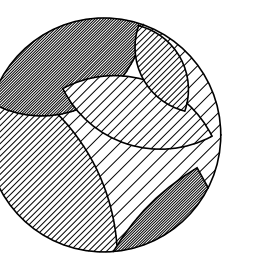


# KHIT CHIROPRACTIC-KYLE LOCATION

6121 POST RD.  
KYLE, TX. 78640

## LANDSCAPE & IRRIGATION DRAWING INDEX

- L1 LANDSCAPE PLAN, THREE TABLE ORDINANCE AND MATERIAL SCHEDULE
- L2 LANDSCAPE DETAILS
- L3 SPECIFICATIONS
- L4 SPECIFICATIONS
- IR1 IRRIGATION PLAN & DETAILS
- IR2 IRRIGATION SCHEDULE & NOTES



**HEFFNER DESIGN  
TEAM, PLLC**

4100 N. 22nd Street  
McAllen, TX. 78504  
(956) 540-7850

1777 NE Loop, Suite 600  
San Antonio, TX 78217  
(210) 820-2677



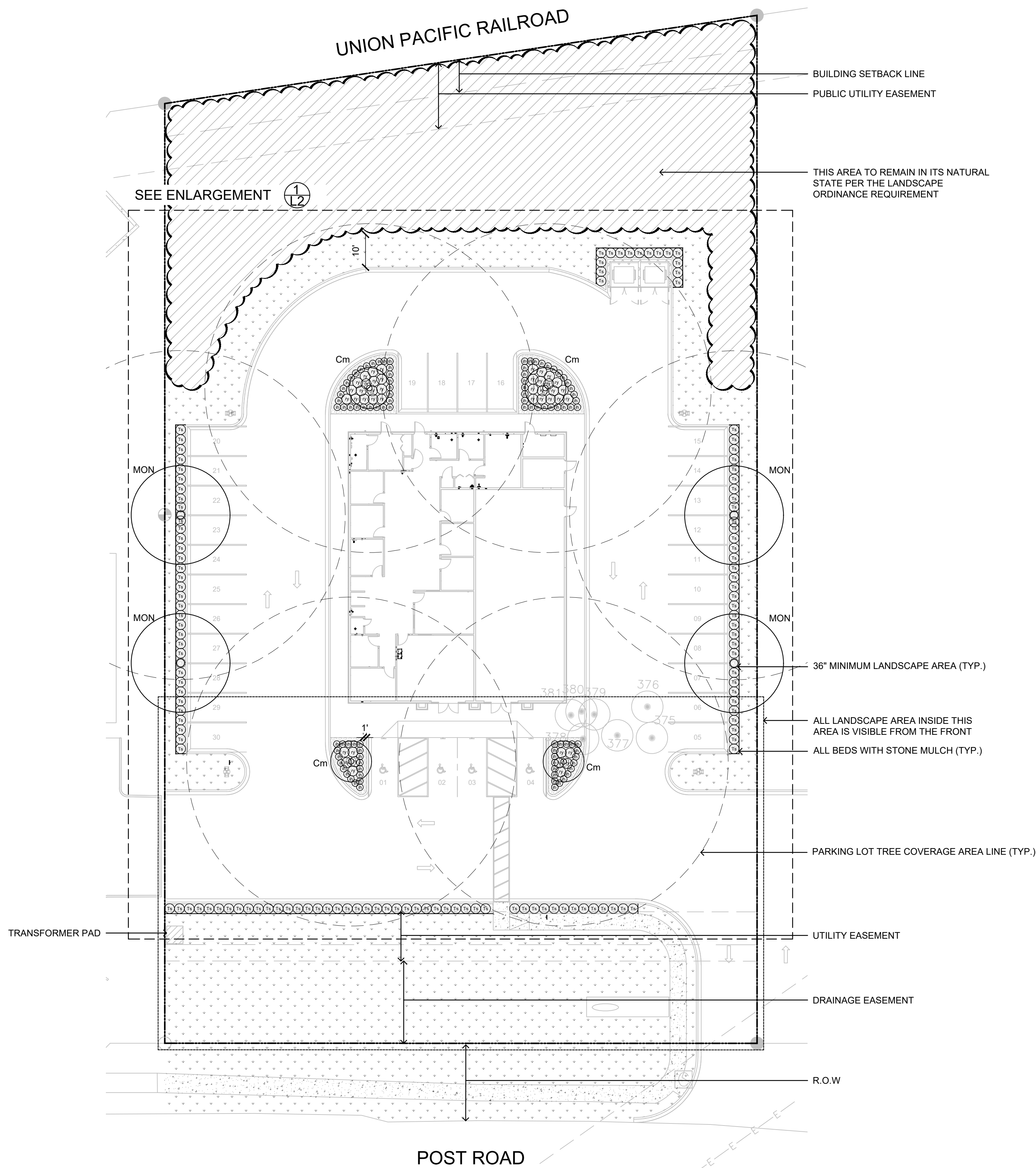
*Andrew T. Heffner*

DATE: 06-05-23

PROJECT:

### KHIT CHIROPRACTIC- KYLE LOCATION

6121 POST RD.  
KYLE TX, 78640



**GENERAL NOTES:**

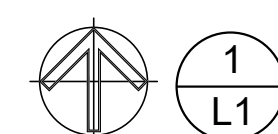
1. SEE CIVIL, MEP AND ARCHITECTURAL SHEETS FOR ALL CIVIL, MEP AND ARCHITECTURAL IMPROVEMENTS.
2. THE LOCATION OF ALL TREES, BOULDERS, SHRUBS AND EDGING SHALL BE STAKED OR MARKED IN THE FIELD BY THE CONTRACTOR FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO INSTALLATION.
3. SOD ENTIRE PROJECT LIMITS AND ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES. DO NOT SOD LANDSCAPE BEDS OR IMPERVIOUS SURFACES.
4. THE CONTRACTOR SHALL REMOVE 12" OF EXISTING SOIL IN ALL LANDSCAPE BEDS AND REPLACE WITH 9" OF PLANTING MIX AND 3" OF MULCH.
5. ALL DIRECTIONAL SIGNAGE TO BE PLACED INSIDE LANDSCAPE BEDS. SEE ARCHITECTURAL SHEETS FOR SIGNAGE.
6. ALL EXISTING AND PROPOSED UTILITIES ARE SHOWN SCHEMATICALLY AND ARE FOR THE CONTRACTORS REFERENCE. THE CONTRACTOR SHALL VERIFY THE LOCATION, SIZE AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCING WORK.
7. IF ANY FIELD CONDITIONS VARY FROM THE CONTRACT DOCUMENTS THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING UPON DISCOVERY.
8. MAINTAIN A POSITIVE SLOPE AWAY FROM THE BUILDING FOUNDATION.
9. THE QUANTITIES INDICATED ON THE LANDSCAPE MATERIAL SCHEDULE & PLAN ARE PROVIDED FOR THE BENEFIT OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY CALCULATIONS AND THE LIABILITY WHICH PERTAINS TO THESE QUANTITIES AND TO ANY RELATED CONTRACT DOCUMENTS AND/OR PRICE QUOTATIONS. QUESTIONS SHOULD BE DIRECTED TO THE LANDSCAPE ARCHITECT.
10. ALL IMPROVEMENTS SHALL BE CONSTRUCTED TO COMPLY WITH THE TEXAS ACCESSIBILITY STANDARDS AND THE ARCHITECTURAL BARRIERS ACT OF 1968.
11. ALL PRESERVED TREES SHALL BE TRIMMED BY A CERTIFIED ARBORIST UNDER THE DIRECTION OF THE LANDSCAPE ARCHITECT. THIS SHALL BE DONE ONCE CONTRACTOR MOBILIZES AND BEFORE TREE PROTECTIONS ARE PUT INTO PLACE. MAINTAIN MINIMUM 14'-17" OVERHEAD CLEARANCE FOR EMERGENCY VEHICLES. NO MORE THAN 25% OF ANY TREE CANOPY CAN BE REMOVED.
12. IT IS THE CLIENT'S RESPONSIBILITY TO SUBMIT AND OBTAIN THE REVIEW AND APPROVAL FROM THE LOCAL GOVERNMENT AGENCY THAT HAS JURISDICTION OVER THE LANDSCAPE AND IRRIGATION IMPROVEMENTS INCLUDED IN THIS SET OF DRAWINGS.

CITY OF KYLE LANDSCAPE ORDINANCE COMPLIANCE WORKSHEET			
DESCRIPTION			VALUE
DEVELOPMENT AREA			53,800 SF
SITE IS ZONED "RS"			
REQUIRED LANDSCAPE IMPROVEMENT AREA	10%	=	5380 SF
PROPOSED LANDSCAPE IMPROVEMENT AREA	42%	=	22,503 SF
REQUIRED LANDSCAPE AREA VISIBLE FROM THE STREET			1883 SF
PROPOSED LANDSCAPE AREA VISIBLE FROM THE STREET			7108 SF
REQUIRED LANDSCAPE AREA LESS THAN 10,000 ONE THREE INCH CALIPER THREE PER 1,000 SF (5380 SF ÷ 1,000 SF)	=	6	TREES
CREDIT FOR PRESERVED TREES	=	0	TREES
REQUIRED NUMBER OF TREES AFTER CREDIT IS APPLIED	=	6	TREES
TOTAL NUMBER OF PROPOSED TREES	=	8	TREES
REQUIRED LANDSCAPE AREA LESS THAN 10,000 THREE ONE GALLON SHRUBS PER 1,000 SF (5380 SF ÷ 1,000 SF) (6 X 3)	=	18	SHRUBS
TOTAL NUMBER OF PROPOSED SHRUBS	=	127	SHRUBS

LANDSCAPE MATERIAL SCHEDULE				
CODE	BOTANICAL NAME	COMMON NAME	APPROXIMATE QTY.	COMMENTS
ry	HESPERALOE PARVIFLORA	RED YUCCA	42	3 GALLON
Cm	LAGERSTROMIA INDICA 'NATCHEZ'	NATCHEZ CRAPE MYRTLE	4	3" CAL., 10' HT, 30 GALLON
Ts	LEUCOPHYLLUM FRUTESCENS 'GREEN CLOUD'	GREEN CLOUD TEXAS SAGE	127	3 GALLON
MON	QUERCUS POLYMORPHA	MONTERREY OAK	4	3" CAL., 10' HT, 45 GALLON
ih	RAPIHOLEPIS INDICA	INDIAN HAWTHORNE	92	3 GALLON
SYMBOL	ITEM	TYPE	APPROXIMATE QTY.	COMMENTS
	SOD	COMMON BERMUDA	12,246 SF	
	STONE MULCH	RIO ROCK (SITE ONE LANDSCAPE SUPPLY STONE CENTER) NEW BRAUNFELS TX.	2,031 SF	2" - 6", NO CALICHE, 3" LAYER INSTALLED ON A LAYER OF LANDSCAPE FABRIC
	LANDSCAPE BED EDGING	ALUMINUM	365 LF	4" ALUMINUM, BLACK FINISH EDGING

ALL LANDSCAPE MATERIAL SHALL BE APPROVED PRIOR TO DELIVERY TO THE SITE, AND SHALL BE MATCHING IN LANDSCAPE ARCHITECT APPROVED SIZE, SHAPE, AND QUALITY.

TREE TABLE				
NO.	DESCRIPTION	NORTHING	EASTING	STATUS
375	22'-10" + (1/2"x8") + (1/2"x8")	13896964.7'	2323577.6'	REMOVE-UNPROTECTED WITHIN AREA NEEDED FOR SITE ACCESS
376	12" WILLOW	13896970.2'	2323569.7'	REMOVE-UNPROTECTED WITHIN AREA NEEDED FOR SITE ACCESS
377	10.5'-7" + (1/2"x7") CONFIRM MEASUREMENT WITH TREE SURVEYOR	13896957.6'	2323569.8'	REMOVE-UNPROTECTED
378	13" WILLOW	13896949.4'	2323563.4'	REMOVE-UNPROTECTED WITHIN 10' OF THE BUILDING FOOTPRINT
379	8" WILLOW	13896956.9'	2323560.3'	REMOVE-UNPROTECTED
380	9" WILLOW	13896954.8'	2323557.0'	REMOVE-UNPROTECTED
381	10" WILLOW	13896951.6'	2323555.6'	REMOVE-UNPROTECTED



**LANDSCAPE PLAN**  
SCALE 1" = 20'

DATE	DESCRIPTION
06-05-2023	100% ISSUED FOR CONSTRUCTION

SHEET TITLE:

### LANDSCAPE PLAN, TREE TABLE, ORDINANCE AND MATERIAL SCHEDULE

These Drawings and Specifications are to be an instrument of service and shall remain the property of the Landscape Architect. They are not to be used on other projects or alterations to this project except by agreement in writing with the Landscape Architect. The Landscape Architect is not responsible for construction means, methods, sequences or procedures or for safety precautions and programs in connection with the project.

PROJECT NUMBER:  
23-12 C.R.

SHEET NUMBER:

# L1

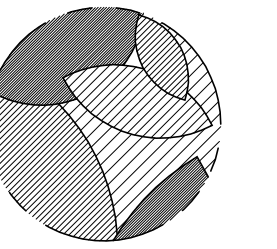












HEFFNER DESIGN TEAM, PLLC

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McAllen, TX. 78504
(956) 540-7850

1777 NE Loop, Suite 600
San Antonio, TX 78217
(210) 820-2677



Andrew T. Heffner

DATE: 06-05-23

PROJECT:

KHIT CHIROPRACTIC-
KYLE LOCATION

6121 POST RD,
KYLE TX, 78640

Table with 2 columns: DATE, DESCRIPTION. Row 1: 06-05-2023, 100% ISSUED FOR CONSTRUCTION

SHEET TITLE:

SPECIFICATIONS

These Drawings and Specifications are to be an instrument of service and shall remain the property of the Landscape Architect. They are not to be used on other projects or alterations to this project except by agreement in writing with the Landscape Architect. The Landscape Architect is not responsible for construction means, methods, sequences or procedures or for safety precautions and programs in connection with the project.

PROJECT NUMBER:

23-12 C.R.

SHEET NUMBER:

L4

1.4 SUBMITTALS

- A. The Contractor shall submit manufacturer's specifications for fertilizers, soil amendments and seed mixtures/percentages. Also include sod inspection certificates from the Texas Department of Agriculture and one sod delivery ticket per truckload. Sod delivery tickets shall indicate sod species, nursery certification and the date and time of cutting.
B. The submittal shall include the manufacturer's name, model number, and manufacturer's installation recommendation, if applicable, for each proposed item.
C. No partial submittal will be accepted and submittals shall be neatly bound into a brochure and logically organized. After the submittal has been approved, substitutions will not be allowed except by written consent of the Landscape Architect.
D. Approval of the submittals are required prior to delivery of any materials to the job site.
E. Shop drawings shall include dimensions, elevations, construction details, arrangements, and capacity of equipment, as well as manufacturer's installation recommendations.

1.5 APPROVAL OF PLANT MATERIAL

- A. All plant material shall be approved by the Landscape Architect prior to installation. At no time shall any approval impair the right of further inspection and rejection during the progress of the work or contract life for failure to conform to the listed size and condition requirements or latent defects, diseases or injuries. Rejected plant materials shall be promptly removed from the site by the Contractor.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Topsoil shall be in accordance to Section 329300.
B. Sod shall be premium #1 certified sod, grown in a sod nursery on clayey soil, at least one year old, with a heavy top, strong well-knit root system and free of weeds and disease. Refer to drawings for type of sod required.
C. Seed shall be fresh, clean, new crop seed. Apply uniformly at the following rates for type of seed and planting date:

Table with 3 columns: TYPE, APPLICATION RATE POUND SIAC, SEEDING DATE. Rows include HULLED COMMON BERMUDA GRASS 98 / 88, UNHULLED COMMON BERMUDA GRASS 98 / 88, ANNUAL RYE GRASS (GULF)

- D. Fertilizer shall be water soluble with an analysis of 12 percent Nitrogen, 4 percent Phosphoric Acid and 8 percent Potash. The fertilizer shall be delivered to the site in fully labeled containers. Fertilizer shall be kept dry prior to being used.
E. Mulch shall be virgin wood cellulose fiber made from whole wood chips. Within the fiber mulch material, at least 20 percent of the fibers will be 10.7 mm in length and .27 mm in diameter. Rate of application shall be 2000 pounds per acre. Mulch shall have a non-toxic green dye to guide in application. Hay or straw shall not be used.
F. Tackifier shall be equal to Terra Tack. The tackifier shall be applied at a rate of 40 pounds per acre. Terra Type III, or approved equal, shall be used on slopes exceeding 10% and Terra Type I, or approved equal, shall be used in all other areas.
G. Wetting agent shall be potable water.
H. Herbicide shall have an active ingredient of 41% glyphosate. The Contractor shall follow all manufacturer's warnings and application instructions.

PART 3 - INSTALLATION

3.1 EXAMINATION

- A. Examine the areas and conditions under which work of this Section will be performed. Notify the Landscape Architect of unsatisfactory conditions. Correct conditions detrimental to the proper and timely completion of the work. Do not proceed until unsatisfactory conditions have been corrected and the Landscape Architect has provided written acceptance. Beginning work indicates acceptance of the site as satisfactory by the installer.

3.2 PREPARATION

- A. Site Preparation: Compacted or unsuitable soils and sub-soils from construction activities must be ripped and tilled until a loose, friable and free-draining condition is met. All existing weeds, grass, stabilized sub-base material, rubble, excavated soil and other material shall be removed from the site and disposed of by the contractor prior to starting any new landscape work. All stones over one (1) inch in any dimension in the top two (2) inches of soil shall be removed. Soil conditions around entire site must be approved by the Landscape Architect prior to rough and finish grading operations. The Contractor shall not install any fill or topsoil in turf areas prior to site condition approval by the Landscape Architect.
B. Turf Area Preparation: Grade areas to finish grades, filling as needed or removing surplus material. Float all turf areas to a smooth, uniform grade as indicated in the Contract Documents. Add compost and incorporate as stated on Plans. All turf areas shall slope to drain away from structures and planting beds. Areas where no grades are shown shall have a smooth and continual grade between fixed elements and elevations shown. The Contractor shall ensure proper drainage around all structures and adjust grades as necessary or as directed by the Landscape Architect. Lightly compact all turf areas with weighted roller to assure future settling will not occur.
C. Turf Areas and Herbicide Application: All turf areas shall be free of weeds, grass, insects, or any other deleterious material prior to bed preparation. Contractor shall herbicide all turf areas at least two times prior to installation of any new material (topsoil or seed/sod). The Contractor shall wait seven (7) days from last herbicide application before proceeding with hydromulch or sod material installation.

3.3 INSTALLATION - HYDROMULCH

- A. Prior to commencement of seeding operations, the Contractor shall protect all stationary items from overspray. Any overspray shall be immediately removed from any stationary object while still wet.
B. The Contractor shall obtain approval of hydromulch area from Landscape Architect prior to application. Immediately after approval begin hydromulch application to reduce potential for erosion and excessive weed growth.
C. Turf areas shall be seeded with an approved mechanical hydromulcher. Hydraulic equipment used for the application of fertilizer, seed and slurry of prepared wood fiber mulch shall have a built-in agitation system with an operating capacity sufficient to agitate, suspend and homogeneously mix a slurry containing up to forty (40) pounds of fiber plus a combined total of seventy (70) pounds of fertilizer solids for each 100 gallons of water. The discharge line shall be equipped with a set of hydraulic spray nozzles which provide even distribution of the slurry on the area to be seeded. The slurry tank shall have a minimum capacity of eight hundred (800) gallons. The Landscape Architect may authorize equipment with a smaller tank capacity. Apply a visibly uniform coat of slurry mixture to the prepared seed bed.
D. Keep hydromulched areas moist during germination period. Adjust watering schedule as needed or as directed by the Landscape Architect.
E. After first cutting water hydromulched areas twice the first week to a minimum depth of six (6) inches with a fine spray and once per week thereafter as necessary to supplement natural rain to the equivalent of one (1) inch or to a six (6) inch depth.
F. Water for watering purposes shall be provided by the Owner at no cost to the Contractor. The Contractor shall provide equipment needed to connect to source, transport and distribute water.
G. After germination period all areas that fail to show a uniform stand of grass shall be re-hydromulched and shall be done repeatedly until a uniform stand of grass has been approved by the Landscape Architect.

3.4 INSTALLATION - SOD

- A. The Contractor shall obtain approval of sod area from Landscape Architect prior to installation. Immediately after approval begin sod installation to reduce potential for erosion and excessive weed growth.
B. Always lay sod perpendicular to the slope and abut tightly together. Stagger strips of sod so that transverse joints are offset a minimum of eight (8) inches.

- C. Roll all sod with a weighted roller weighing approximately three hundred (300) lbs. to sufficiently set sod roots into underlying soil.
D. Water the sod with an irrigation system only. Monitor the health of the sod material and adjust water needs accordingly or as directed by Landscape Architect.
E. Sodded areas shall have fertilizer applied in two (2) applications with a thorough watering immediately following each application. The first application shall be one (1) week before the sod install at the rate of 35 pounds per 1,000 square feet narrowed into the top two (2) inches of seed bed. The second application shall be done at the rate of 25 pounds per 1,000 square feet, immediately following the second mowing.

3.5 CLEANING AND PROTECTION

- A. The Contractor shall perform all necessary cleaning and removal of excess soil, debris, equipment, etc., during installation and upon completion of the work. The Contractor shall immediately repair any damage resulting from turf establishment operations without cost to the Owner.
B. The Contractor shall protect turf areas from damage, theft, erosion, washout, settlement or other causes until final acceptance. The above damages shall be repaired by the Contractor at no cost to the Owner.

PART 4 - METHOD OF MEASUREMENT

MEASUREMENT:

Turfgrass as described in this section will be paid for on a lump sum basis wherein no measurement will be made.

PART 5 - BASIS OF PAYMENT

PAYMENT:

- A. Turfgrass will be paid for at the Contract lump sum, which price will be full compensation for furnishing and installing equipment; shop drawings; providing all submittals and warranties; furnishing all labor, materials, tools, equipment, and incidentals necessary to complete the work as described in this section and related other sections of these Contract Documents, as well as maintenance until final acceptance.

END OF SECTION 329200.

SECTION 329300

PLANTS

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK AND RELATED DOCUMENTS

- A. Furnish all work and materials, appliances, tools, equipment, facilities, transportation and services required and incidental thereto, as shown on the Drawings and/or specified herein including but not limited to; the procurement and transportation of living plants, the excavation and preparation of all planting beds and planting of all materials, mulching, watering, protection, maintenance guarantee period, bed edging, planting soil/mixes, fertilizer, mulch, trees, palms, shrubs, groundcovers, plant material replacements for all Contractor supplied plant materials, miscellaneous landscape materials.
B. Related Work Specified Elsewhere:
1. Turf and Grasses: 329200

1.2 QUALITY ASSURANCE

- A. The following Codes, Regulations, Reference Standards, and Specifications apply to work included in this section:
1. "Hortus Third," 1976.
2. Texas Association of Nurserymen, Grades and Standards for Nursery Stock
3. "American Standard for Nursery Stock," ANSI Z60.1-1900.
4. National Arborist Association Standards
5. "Plants of Deep South Texas - A Field Guide to the Woody and Flowering Species"

1.3 WARRANTY AND MAINTENANCE

- A. The Contractor shall warranty groundcover/shrubs for three months and trees/palms for one year after final acceptance. If plant material is deemed dead or unrecoverable by the Landscape Architect the Contractor will be notified in writing as such. The Contractor shall remove and replace the plant material within two weeks of the notification.
B. The Contractor shall maintain all plant material described in this Section for ninety days after written approval of substantial completion is received from the Landscape Architect.
C. Maintenance period work shall include the following tasks completed weekly:
1. Remove and replace dead plant material. Prune plants to remove dead wood and to maintain health of plants.
2. Maintain all mulched areas at a 3 in. depth. Remove weeds and grass from shrub and ground cover areas and from watering basins.
3. Provide insect and disease control to maintain health of plants.
4. Adjust or replace staking as required.
5. Dispose of all maintenance debris/clippings off-site. Owner's dumpsters shall not be used for disposal.
6. Keep all paved areas clear and free of grass clippings, mulch or other foreign materials.
7. Remove staking materials at end of maintenance period and deliver to Owner.

1.4 SUBMITTALS

- A. The Contractor shall submit manufacturer's specifications for fertilizers, soil amendments, seed mixtures/percentages; all sources for plant materials; a one foot section of edging (as specified on the Drawings); and one pound bag samples each of topsoil, mulch and compost. The submittal shall include the manufacturer's name, model number, and manufacturer's installation recommendation, if applicable, for each proposed item in accordance with Section 01300.
B. No partial submittal will be accepted and submittals shall be neatly bound into a brochure and logically organized. After the submittal has been approved, substitutions will not be allowed except by written consent of the Landscape Architect.
C. Approval of the submittals are required prior to delivery of any materials to the job site.
D. Shop drawings shall include dimensions, elevations, construction details, arrangements, and capacity of equipment, as well as manufacturer's installation recommendations.

1.5 PROTECTION OF ITEMS TO REMAIN

- A. Prior to commencing work the Contractor shall furnish and install orange construction fencing as indicated on the Drawings. Fencing shall be 60" in height, continuous and staked as needed to provide a stable and secure barrier around plant material. No work under this contract may begin until this fencing is in place and approved in writing by the Landscape Architect.
B. Trees that are to remain on site but be transplanted to a new location shall have orange construction fencing installed at the tree's dripline.
C. No trucks, machinery, stockpiled or staged material shall be placed or driven within the drip line of any plant material unless that drip line extends over an imperviously surfaced area. The Landscape Architect will determine if plant replacement or other repair is needed to restore the affected area to pre-construction conditions at the sole cost to the Contractor.
D. The Contractor shall adjust depth of earthwork and loaming when working immediately adjacent to any of the aforementioned features in order to prevent disturbing tree roots, undermining walks and pavements, and damage in general to any existing or newly incorporated item.

- E. Where excavating, fill or grading is required within the branch spread of trees that are to remain, the work shall be performed as follows:

- 1. TRENCHING: When trenching occurs around trees to remain, the tree roots shall not be cut but the trench shall be tunneled under or around the roots by careful hand digging and without injury to the roots.
2. RAISING GRADES: When the existing grade at a tree is below the new finished grade, and fill not exceeding 16 inches (16") is required, clean, washed gravel graded from one to two inches (1" - 2") in size shall be placed directly around the tree trunk. The gravel shall extend out from trunk on all sides a minimum of 18 inches (18") and finish approximately two inches (2") above the finished grade at tree. Install gravel before any earth fill is placed. New earth fill shall not be left in contact with the trunks of any trees requiring fill. Where fill exceeding 16 inches (16") is required, a dry laid tree well shall be constructed around the trunk of the tree. The tree well shall extend out from the trunk on all sides a minimum of three feet (3') and to three inches (3") above finish grade. Coarse grade rock shall be placed directly around the tree well extending out to the drip line of the tree. Clean, washed gravel graded from one to two inches (1" - 2") in size shall be placed directly over the coarse rock to a depth of three inches (3"). Approved backfill material shall be placed directly over the washed gravel to desired finished grade.
3. LOWERING GRADES: Existing trees in areas where the new finished grade is to be lowered shall have regrading work done by hand to elevation as indicated. Roots as required shall be cut cleanly three inches (3") below finished grade and scars covered with tree paint.
4. Trees that are to remain that are located more than six inches (6") above proposed grades shall stand on broad rounded mounds and be graded smoothly into the lower level. Trees located more than 16 inches (16") above proposed grades shall have a retaining structure as detailed on the Drawings, constructed a minimum of five feet (5') from the trunk. Exposed or broken roots shall be cut clean and covered with topsoil.

1.6 APPROVAL OF PLANT MATERIAL

- A. All plant material shall be approved by the Landscape Architect prior to installation. At no time shall any approval impair the right of further inspection and rejection during the progress of the work or contract life for failure to conform to the listed size and condition requirements or latent defects, diseases or injuries. Rejected plant materials shall be promptly removed from the site by the Contractor.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Plant materials shall conform to the following requirements:

- 1. Plants shall be true to name. The standard names are those adopted by the American Joint Committee on Horticultural Nomenclature. No substitution of species or varieties shall be accepted without the written consent of the Landscape Architect.
2. Plants shall have a normal habit of growth and shall be typical of their species unless the general shape and overall character of a particular plant is specifically noted in the Plant List on the Contract Documents.
3. Plants shall be certified healthy, freshly dug, vigorous and free from defects, decay, disfiguring roots, sun scale injuries, abrasions of the bark, plant diseases insect pests, eggs, or larvae.
4. All plants shall have been grown under climatic conditions similar to those in the locality of the project for at least two (2) years and shall have normal healthy root systems, having been subjected to proper transplanting.
5. Plants shall not be pruned prior to delivery.
6. Balled and burlapped ("B & B") plants shall have firm, natural balls of soil of a diameter to conform to the above standards, but large enough to encompass sufficient fibrous feeding roots to insure full recovery and development of the plants. Plants grown in sand are not acceptable.
7. All precautions, which are customary in good nursery practice, shall be taken to insure the arrival of the plant material in good condition for successful growth. Plant material which arrives to the construction site poorly packed, with roots in a dry condition and/or leaves in a dehydrated condition will not be accepted.
8. All plants shall be freshly dug. All plants shall be typical of their species or variety and shall have a normal habit of growth unless otherwise specified. Trees shall have straight trunks and all old abrasions and cuts shall be completely calloused over.
9. Plants shall have a well-developed fibrous root system.
10. Measurement: Trees and shrubs shall be measured when their branches are in normal position. Height and spread dimensions specified refer to the main body of the plant, and not from branch or root tip to tip. Caliper of trees shall be taken 6" above tree root flare.
11. Palms: All new palms shall be field dug or containerized material in specified sizes shown on the Contract Documents. All palms shall have good form (straight trunks) consistent of its species, free of scars/abrasions/burn marks and disease and insects, with large healthy root systems. Rootballs sizes for B&B material must meet the following minimum specifications:
a. Sabal Palms - 12" greater than trunk O.D., 24" height
b. Washingtonia Palms - 8" greater than trunk O.D., 24" height
c. Chinese Fan, Mediterranean Fan Palms, Others - 30" diameter, 30" height
B. Fertilizer: 13-13-13 Osmocote slow release fertilizer granules or approved equal.
C. Planting tablets: Agrifom (20-10-15) 21 gram slow release fertilizer tablets or approved equal.
D. Compost: Premium grade compost
E. Topsoil: Fertile, agricultural soil, typical for locality, capable of sustaining vigorous plant growth, taken from drained site; free of subsoil, clay or impurities, plants, weeds and roots; minimum pH value of 5.4 and maximum 7.0; organic matter to exceed 1.5%, magnesium to exceed 100 units; phosphorus to exceed 150 units; potassium to exceed 120 units; soluble salts/conductivity not to exceed 900 ppm/0.9 mmhos/cm in soil.
F. Wood Mulch: Double Shredded Cedar.
G. Staking material:
1. Commercial grade rubber chain-locks.
2. Commercial grade T-Posts, 1.25 ga., 8' Ht., black (do not drive through rootball). Include plastic cap on all T-posts, cap color to match T-Post color.

PART 3 - INSTALLATION

3.1 EXAMINATION

- A. Examine the areas and conditions under which work of this Section will be performed. Notify the Landscape Architect of unsatisfactory conditions. Correct conditions detrimental to the proper and timely completion of the work. Do not proceed until unsatisfactory conditions have been corrected and the Landscape Architect has provided written acceptance. Beginning work indicates acceptance of the site as satisfactory by the installer.

3.2 EXECUTION

- A. Site Preparation: Compacted or unsuitable soils and sub-soils from construction activities must be ripped and tilled until a loose, friable and free-draining condition is met. All existing weeds, grass, stabilized sub-base material, rubble, excavated soil and other material shall be removed from the site and disposed of by the contractor prior to starting any new landscape work. Soil conditions around entire site must be approved by Landscape Architect prior to rough and finish grading operations. The Contractor shall not install any fill or topsoil in landscape areas prior to site condition approval by Landscape Architect.
B. Bed Preparation and Herbicide Application: All planting areas shall be free of weeds, grass, insects, or any other deleterious material prior to bed preparation. Contractor shall herbicide all planting areas with 'RoundUp' or approved equal at least two times prior to installation of any new plants. Pre-emergent herbicide shall be applied after planting and before placement of mulch.

- C. Planting Beds Adjacent to buildings and inside parking lot landscape islands: Excavate 12" of existing soil within planting beds and replace with 8" of planting mix. Final grades within all planting beds shall be 3" below adjacent curbs to allow for mulch. Contractor to ensure positive drainage throughout all landscape areas. Adjust grades as necessary to direct water away from planting beds. Report any discrepancies on all drainage issues in writing to the Landscape Architect. The Landscape Architect shall approve planting bed grades prior to planting operations.
D. Edging: Edging shall be installed as shown on the Drawings. Edging shall allow for drainage points to ensure free drainage away from all structures and walkways. Edging shall be set flush with adjacent paving, sidewalks or driveways.
E. Turf Areas: Scarify, float and fine grade all areas to receive sod or hydromulch for approval by Landscape Architect prior to placement of sod or application of hydromulch. Supply additional topsoil as necessary to fill any/all low areas and ensure positive drainage away from planting beds.
F. Berms and Mounding: Supply topsoil and construct berms as indicated on the Drawings.
G. Berms shall have a maximum slope of 1:4. Landscape Architect to approve berming and mounding prior to planting operations. Berms shall be compacted in 6" lifts.
H. Planting Operations:

- 1. Installation:
a. Excavate planting pit to depth and width indicated on Contract Documents.
b. Set root ball on puddle/settled bottom of planting pit. Remove burlap, rope, wire, and all other wrapping material from top of ball. Completely remove any binding rope which is not biodegradable.
c. Fill planting pit 2/3 full with planting mix, soak with water and allow to settle, and add fertilizer tablets as detailed. Finish filling pit with planting mix and tamp lightly. Do not place fertilizer tablets at bottom of planting pit.
d. Construct a watering basin as detailed on the Drawings and described below. Water-in to completely saturate the root ball and planting mix. Add planting mix where any settling or air pockets occur and saturate with water.
e. Stake all trees/palms immediately after planting as detailed. Staking to be maintained throughout the maintenance period.
f. Palms: New Washingtonia palms shall be cleaned (skinned) completely of their leafstem bases and fibers to a height 4 feet below the crown. Sabal palms shall be planted with their leafstem bases remaining but cleaned and trimmed evenly. All palms shall be planted with several petioles or fronds tied up straight with natural twine. Remaining fronds shall be trimmed or 'hurricane cut' to lighten wind load on terminal bud. Contractor is responsible for removing or cutting the twine supporting the fronds as directed by the Landscape Architect.

- I. Watering Basins: Watering basins for all trees/palms shall be constructed in a ring shape around each tree or palm trunk. This earthen berm shall be constructed 6" in height and 36" in diameter so as to hold water and allow infiltration around root ball. A minimum of 4 inches of cypress mulch shall be placed within the watering basin. Watering basins must be maintained and kept free of weeds during the entire maintenance period. No mulch shall come in contact with the tree trunk.

J. Pruning Operations:

- 1. After planting, the branches of deciduous stock shall be pruned to balance the loss of roots while retaining the natural form of the plant type according to best horticultural practice.
2. Trees shall be pruned by removing all dead wood, all surplus, badly formed and interfering limbs. In general, 1/5 of the branches shall be removed but the proportion shall, in all cases, be subject to the approval of the Landscape Architect. Broken, damaged and unsymmetrical branches shall be removed or cut back to ensure healthy and symmetrical growth of new wood. In the case of multiple leaders, the one which will best promote the symmetry of the trees shall be preserved and the remainder shall be removed or cut back so that they will not compete with the selected leader. Surrounding top branches shall be cut back to conform to the leader trimming. Branches to be cut back shall be cut off at the point beyond a lateral shoot or bud a distance of not less than 1/2 the diameter of the supporting branch. The cut shall be made on an angle sloping in the direction of the lateral shoot and in no case shall stubs be left. All cut surfaces over one inch in diameter shall be painted with tree wound dressing.

- K. During excavation, material suitable for backfilling shall be stockpiled in an orderly manner a sufficient distance back from edge of trenches to avoid overloading and prevent slides or cave-ins. Material unsuitable for backfilling shall be wasted as directed by the Landscape Architect. When excavated material is of a rocky nature and the topsoil or any other layer of excavated material is suitable for pipe bedding and backfill in the vicinity of the pipe, such material shall be separately stockpiled for use in such bedding and pipe backfill operations, unless satisfactory imported material is used.
L. All excavations and backfill shall be unclassified and covered in the base bid. No additional compensation will be allowed for rock encountered.
M. Restore all surfaces, existing underground installations, etc., damaged or cut as a result of the excavations to their original conditions in a manner acceptable to the Landscape Architect.

3.3 CLEANING AND PROTECTION

- A. The Contractor shall perform all necessary cleaning and removal of excess soil, debris, equipment, etc., during installation and upon completion of the work. The Contractor shall immediately repair any damage resulting from planting operations without cost to the Owner.
B. The Contractor shall protect landscape plants from damage or theft until final acceptance.

PART 4 - METHOD OF MEASUREMENT MEASUREMENT:

Landscape Planting as described in this section will be paid for on a lump sum basis wherein no measurement will be made.

PART 5 - BASIS OF PAYMENT

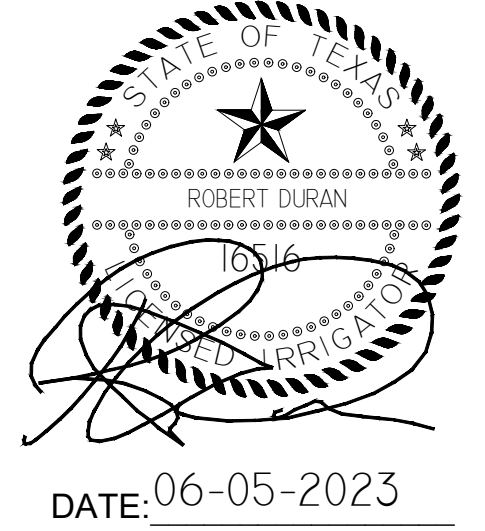
PAYMENT:

- A. Landscape Planting will be paid for at the Contract lump sum, which price will be full compensation for furnishing and installing equipment; shop drawings; providing all submittals and warranties; furnishing all labor, materials, tools, equipment, and incidentals necessary to complete the work as described in this section and related other sections of these Contract Documents, as well as maintenance until final acceptance.

END OF SECTION 329300



CONTRACTOR RESPONSIBLE FOR CONTROLLER & RAIN SENSOR. CONTRACTOR TO VERIFY LOCATION WITH OWNER AND ADJUST ACCORDINGLY.  
CONTRACTOR RESPONSIBLE FOR ALL SLEEVES TO IRRIGATION CONTROLLER WIRES TO CONTROLLER PROVIDE OUTLETS TO PLUG IN CONTROLLER.



PROJECT:  
**KHIT CHIROPRACTIC-  
KYLE LOCATION**  
6121 POST RD,  
KYLE TX, 78640

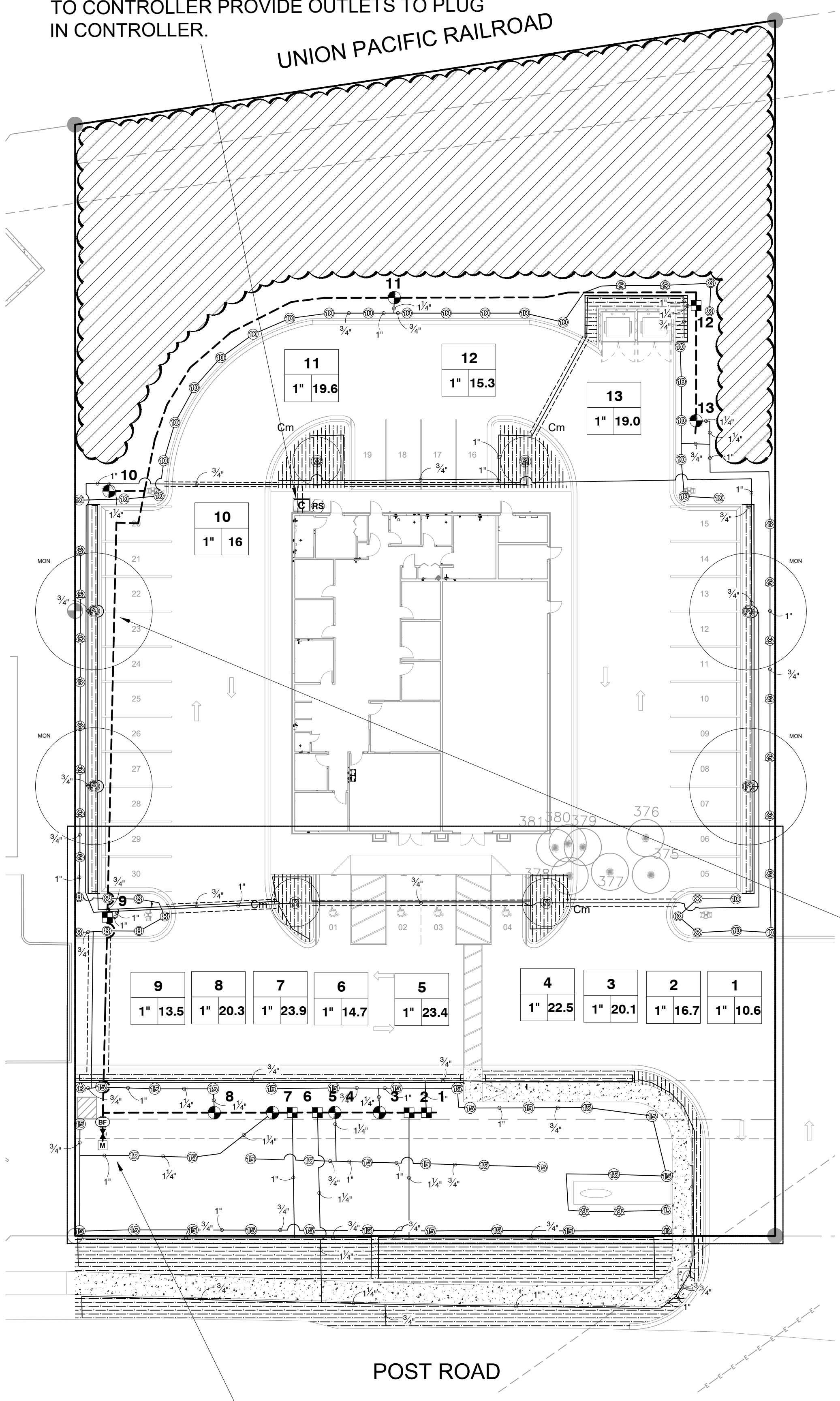
DATE	DESCRIPTION
06-05-2023	100% ISSUED FOR CONSTRUCTION

SHEET TITLE:

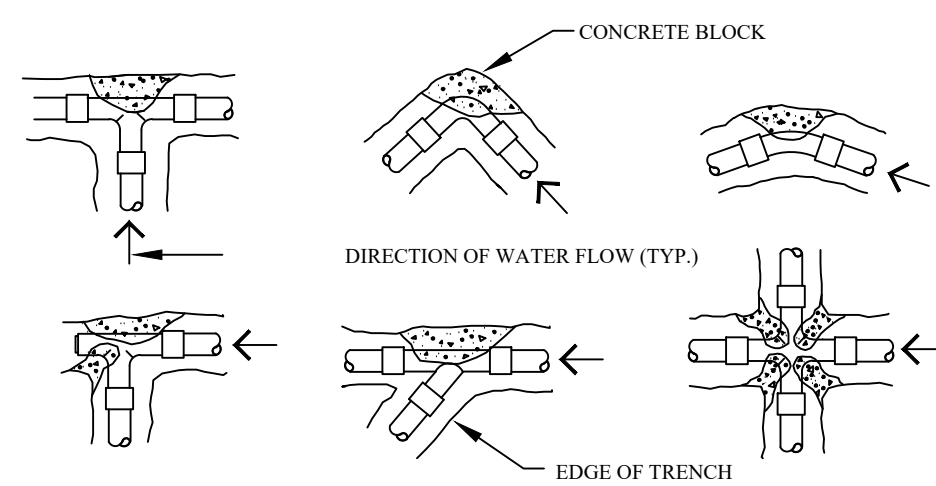
**IRRIGATION PLAN & DETAILS**

PROJECT NUMBER:  
23-12 C.R.  
SHEET NUMBER:

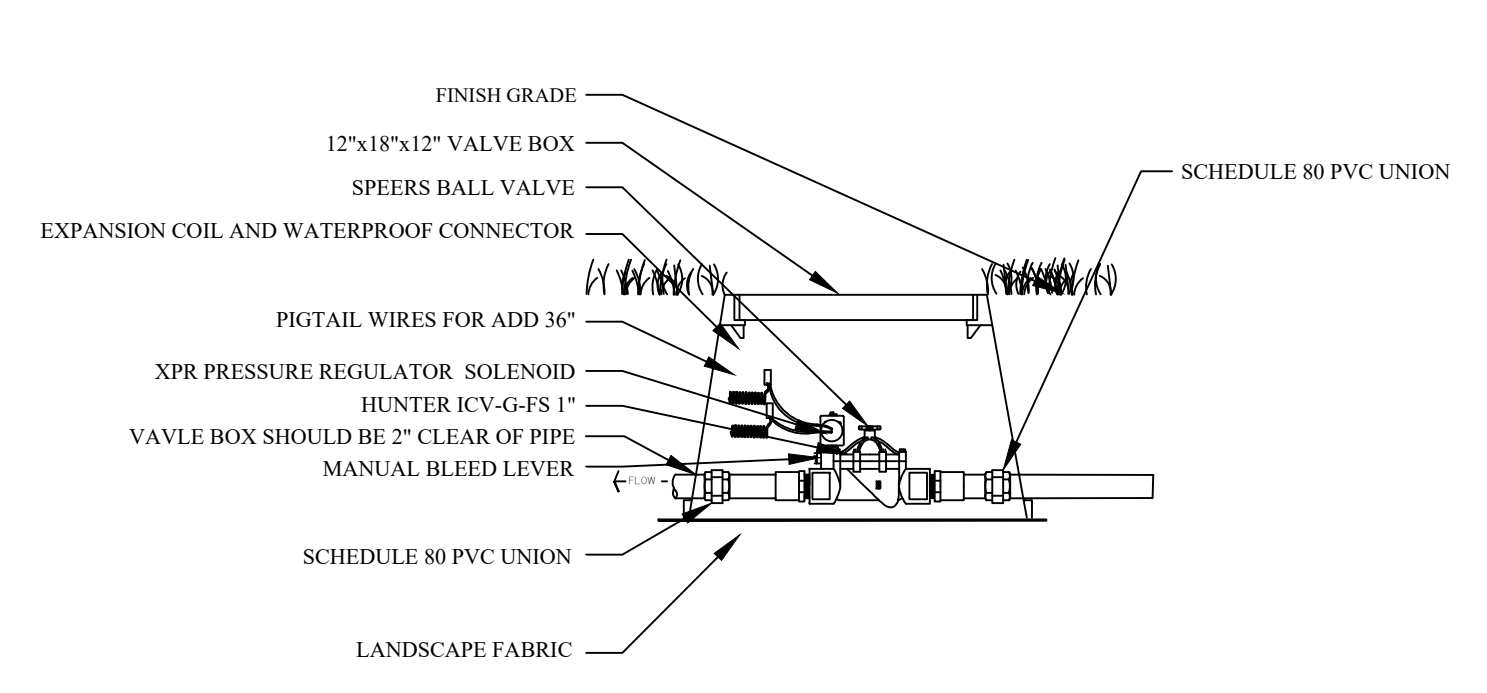
**IR1**



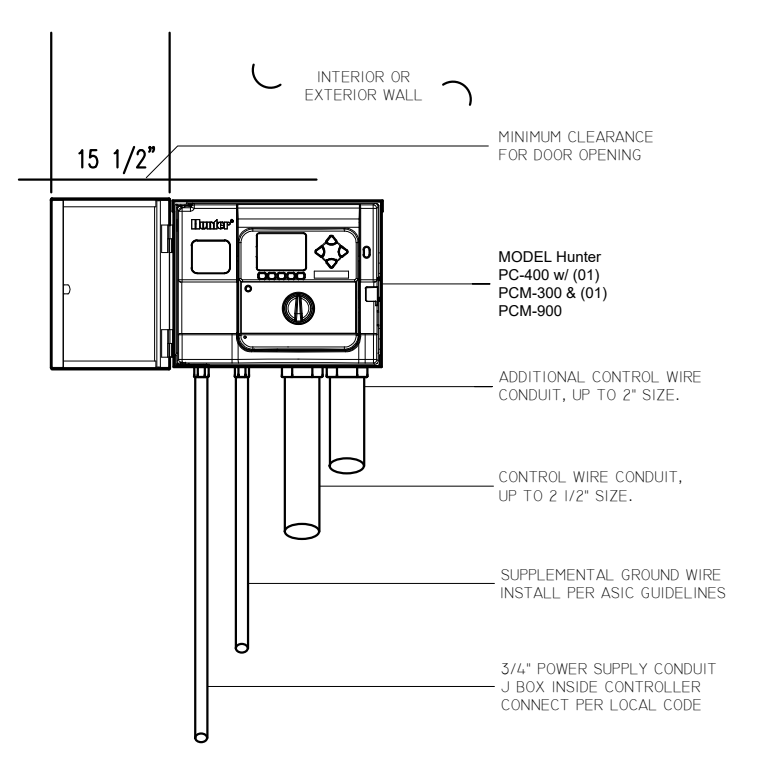
CONTRACTOR RESPONSIBLE FOR WATER METER, ISOLATION VALVE. CONTRACTOR TO VERIFY LOCATION AND ADJUST ACCORDINGLY.



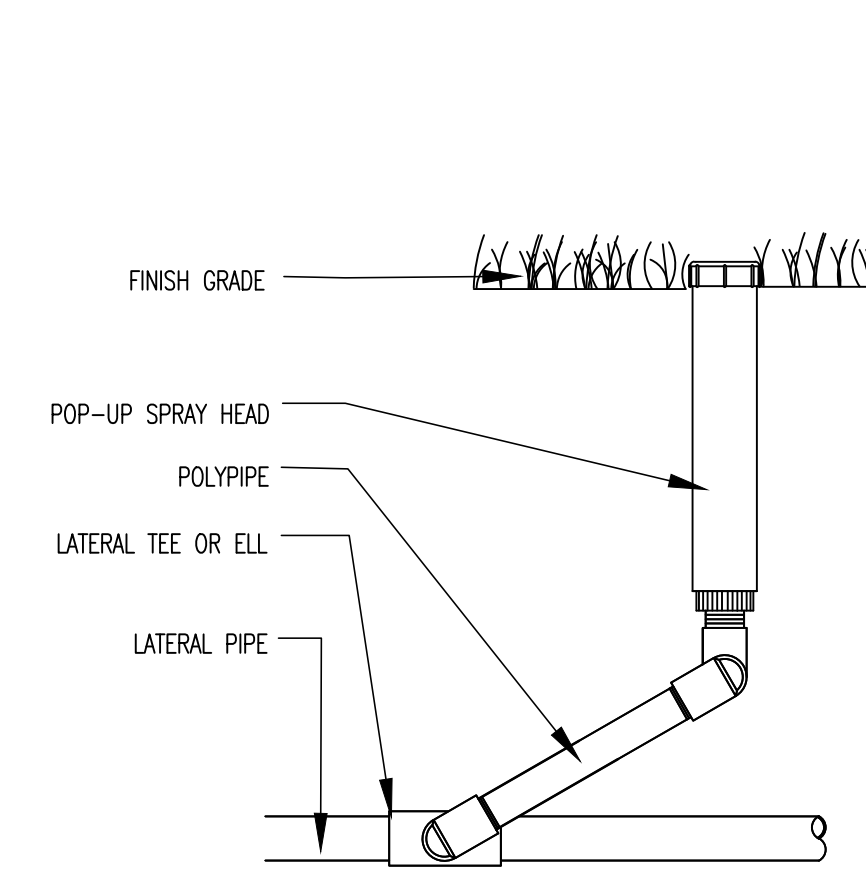
**A** THRUST BLOCKS  
N.T.S.



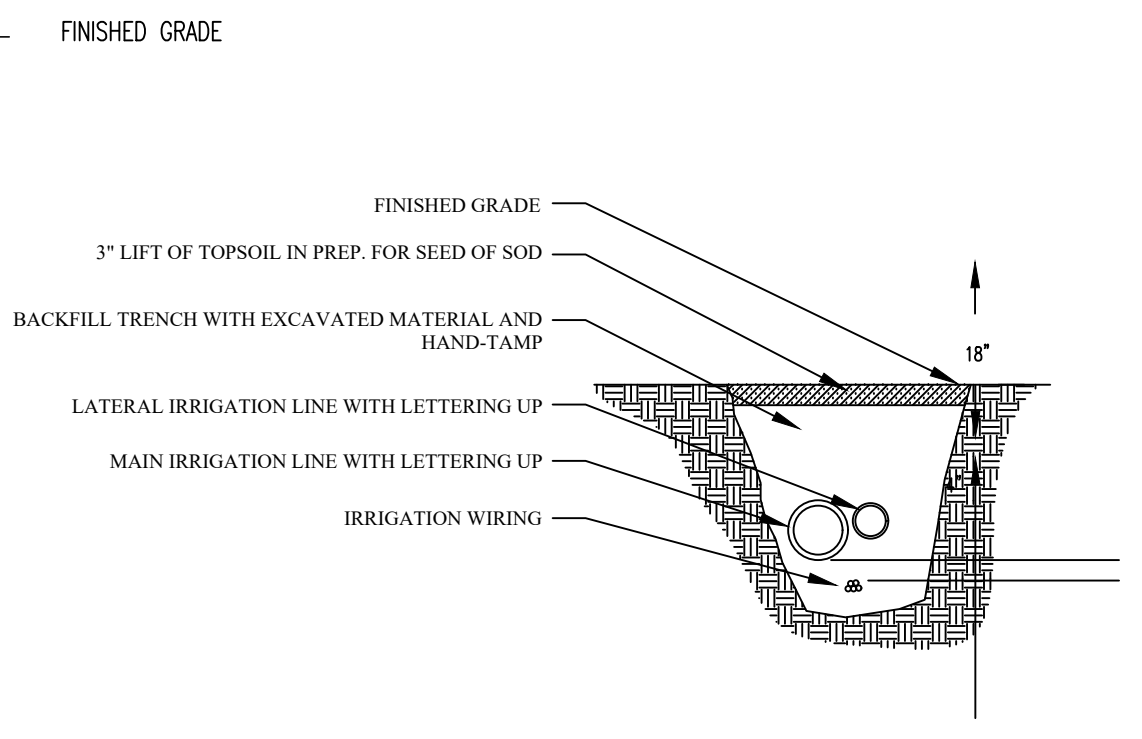
**B** HUNTER  
N.T.S.



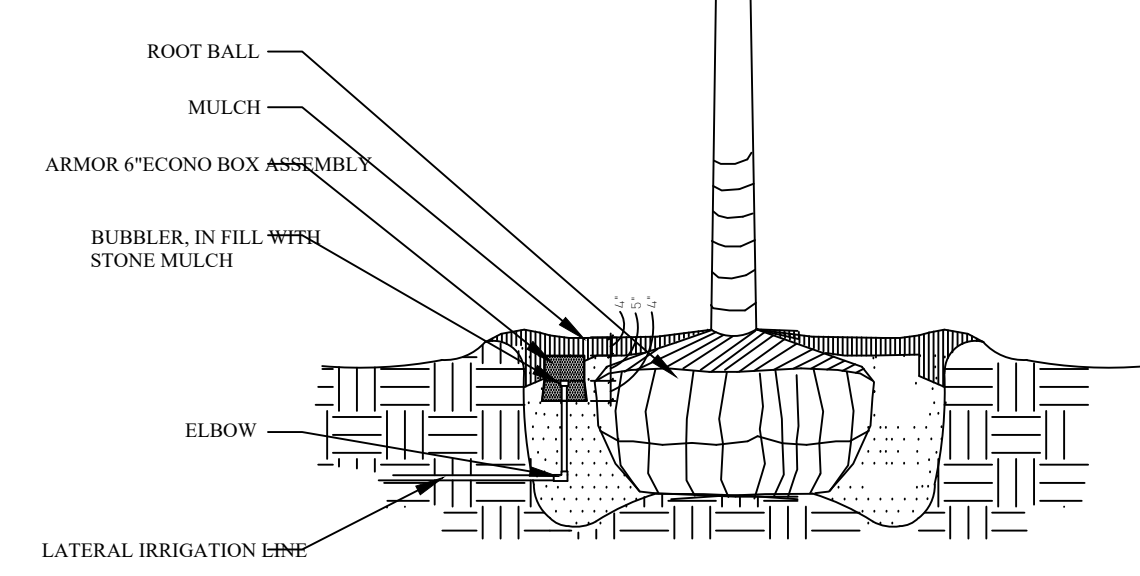
**C** Hunter PC-400 w/ (01) PCM-300 & (01) PCM-900  
N.T.S.



**D** HUNTER PRO SPRAYS  
N.T.S.

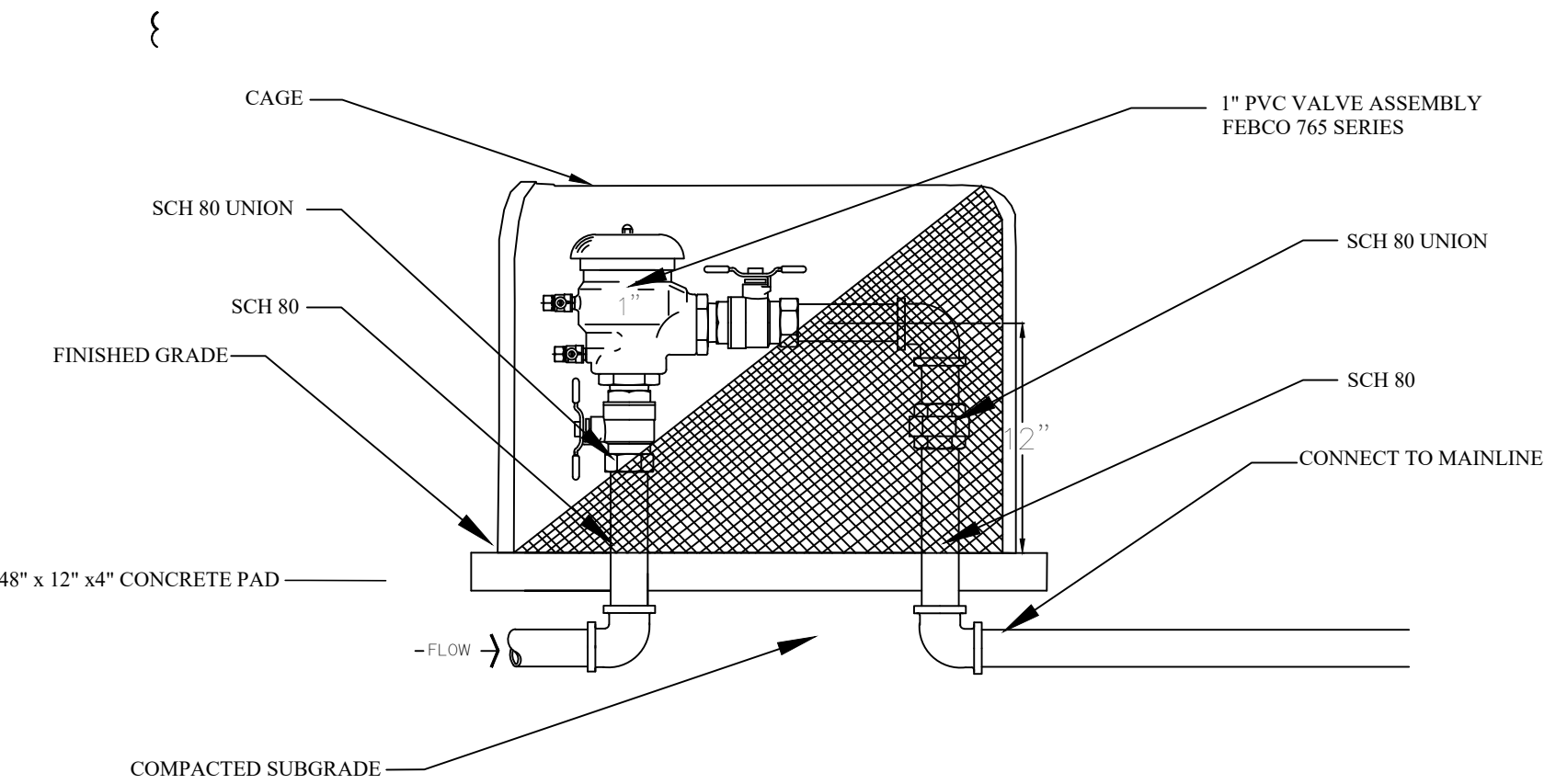


**E** IRRIGATION MAINLINE, LATERAL LINE, AND WIRES  
N.T.S.

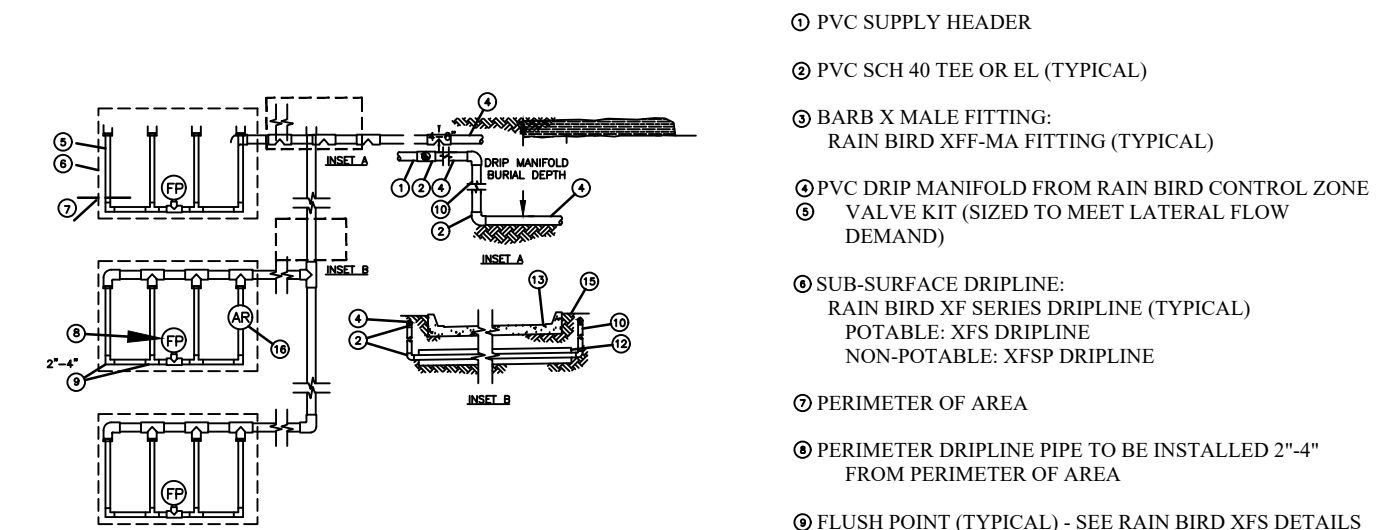


**F** HUNTER PROS ADJUSTABLE BUBBLERS  
N.T.S.

MAINLINE IS DIAGRAMMATIC FOR CLARITY PURPOSES. CONTRACTOR RESPONSIBLE FOR PLACING MAINLINE IN LANDSCAPE AREA.



**G** FEBCO PVB  
N.T.S.



**H** RAINBIRD XFS-CV DRIP LINE  
N.T.S.

- ⊙ PVC SUPPLY HEADER
- ⊙ PVC SCH 40 TEE OR EL (TYPICAL)
- ⊙ BARB X MALE FITTING: RAIN BIRD XFF-MA FITTING (TYPICAL)
- ⊙ PVC DRIP MANIFOLD FROM RAIN BIRD CONTROL ZONE
- ⊙ VALVE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
- ⊙ SUB-SURFACE DRIPLINE: RAIN BIRD XFS SERIES DRIPLINE (TYPICAL) POTABLE: XFS DRIPLINE NON-POTABLE: XFS DRIPLINE
- ⊙ PERIMETER OF AREA
- ⊙ PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA
- ⊙ FLUSH POINT (TYPICAL) - SEE RAIN BIRD XFS DETAILS FOR FLUSH POINT INSTALLATION
- ⊙ BARB X BARB INSERT TEE OR EL: RAIN BIRD XFF-TEE OR RAIN BIRD XFF-ELBOW (TYPICAL)
- ⊙ PVC RISER PIPE
- ⊙ PVC SUPPLY MANIFOLD
- ⊙ PVC SCH 40 SLEEVE PIPE SIZED TWICE THE SIZE OF MANIFOLD PIPE SIZE
- ⊙ PAVEMENT AND CURB
- ⊙ TURF OR MULCH
- ⊙ FINISH GRADE
- ⊙ 1/2" AIR RELIEF VALVE: RAIN BIRD MODEL: ARV050 SEE RAIN BIRD XFS DETAILS FOR AIR RELIEF INSTALLATION







2018 IBC CHAPTER 17 SPECIAL INSPECTIONS:

- SP-1 REFER TO SPECIFICATION SECTION 01411 SPECIAL INSPECTIONS IBC CHAPTER 17.
- SP-2 THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (RDP/RC) FOR THIS PROJECT IS THE ARCHITECT. SUBMIT ALL SPECIAL INSPECTION REPORTS DIRECTLY TO THE RDP/RC FOR REVIEW. ALSO SUBMIT THE STRUCTURALLY RELATED SPECIAL INSPECTION REPORTS TO THE STRUCTURAL ENGINEER FOR REVIEW.
- SP-3 THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL TESTING, INSPECTIONS AND NOTIFYING THE ARCHITECT / ENGINEER AND SPECIAL INSPECTORS OF WORK READY FOR INSPECTION. THE GENERAL CONTRACTOR MUST PROVIDE ACCESS TO AND MEANS FOR PROPER INSPECTION OF SUCH WORK.
- SP-4 SPECIAL INSPECTIONS REQUIRED FOR THIS PROJECT:
  - A. SOILS (SLAB-ON-GRADE)
  - B. CONCRETE CONSTRUCTION
  - C. STRUCTURAL STEEL
  - D. STEEL FABRICATORS
- SP-5 THE SPECIAL INSPECTIONS FOR THIS PROJECT WILL BE PROVIDED BY A FIRM DESIGNATED BY THE ARCHITECT.
- SP-6 THE RDP/RC IS RESPONSIBLE TO PREPARE, SIGN AND SUBMIT THE 'FINAL REPORT OF REQUIRED INSPECTIONS' FOR SUBMITTAL TO THE CITY OF SAN ANTONIO AFTER THE GENERAL CONTRACTOR COMPLETES HIS WORK ACCORDING TO THE APPROVED PLANS.

STEEL FRAMING NOTES:

- SF-1 STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 EXCEPT FOR WIDE FLANGE (W-SHAPES) WHICH MUST CONFORM TO ASTM A992 (Fy=50 KSI). HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500, GRADE B, Fy=46 KSI FOR RECTANGULAR HSS, Fy=42 KSI FOR ROUND HSS. PIPE SHALL CONFORM TO ASTM A53, GRADE B, Fy=35 KSI. CONNECTIONS SHALL CONFORM TO REQUIREMENTS OF AISC (DESIGN IN ACCORDANCE WITH ASD).
- SF-2 STEEL JOISTS AND BRIDGING SHALL CONFORM TO STEEL JOIST INSTITUTE SPECIFICATIONS.
- SF-3 JOIST MANUFACTURER SHALL REVIEW FRAMING DETAILS TO INSURE THAT THE LATEST REQUIREMENTS OF DSHA ARE MET. THIS MAY REQUIRE COORDINATION WITH STEEL FABRICATOR FOR LOCATION OF BOLT HOLES AND ERECTION PROCEDURES. GENERAL CONTRACTOR TO VERIFY COORDINATION.
- SF-4 TYPICAL ROOF DECK IS 1-1/2" - 22 GAUGE, PAINTED, TYPE F INTERMEDIATE RIB DECK COMPLYING WITH STEEL DECK INSTITUTE, WITH MINIMUM I = .120, SN = .120, ATTACH TO SUPPORTING MEMBERS BY PLUG WELDING DIRECTLY THROUGH BOTTOM OF THE RIBS AT EVERY SUPPORT. WELD EACH SHEET AT BOTH SIDES AND AT OTHER RIBS SO THAT SPACING BETWEEN WELDS ACROSS THE WIDTH OF EACH SHEET DOES NOT EXCEED 18". IN ACCORDANCE WITH STEEL DECK INSTITUTE'S SPECIFICATIONS.
- SF-5 STEEL DECK SHALL SPAN A MINIMUM OF THREE SPANS CONTINUOUS. DECK SHALL BE CONNECTED TO STEEL SUPPORTS BY WELDING AS RECOMMENDED BY THE MANUFACTURER TO PROVIDE LATERAL SUPPORT TO STEEL SUPPORTS AND TO PROVIDE DIAPHRAGM ACTION. DECK DAMAGED BY BURNING OF HOLES, OVER-WELDING, AND/OR CONSTRUCTION LOADING SHALL BE REPLACED.
- SF-6 WHERE METAL DECK IS SUPPORTED CONTINUOUSLY AT EDGES, WELD DECK TO STEEL SUPPORT AT 12" O.C.
- SF-7 TYPICAL STEEL JOIST SEAT ANCHORAGE: FIELD WELD EACH SEAT WITH TWO 1" LONG BY 1/8" WELDS FOR K-SERIES.
- SF-8 STRUCTURAL FRAMING CONNECTIONS SHALL BE SEATED COLUMN CAPS, CLIP ANGLES OR WEB PLATES AS SHOWN ON DETAILS. USE A325 HIGH STRENGTH BOLTS OR WELDS SUFFICIENT TO DEVELOP REACTION CAPACITY SHOWN IN AISC MANUAL (9TH EDITION) AS THE ALLOWABLE UNIFORM LOAD/SPAN DIVIDED BY TWO AS SHOWN IN THE (9TH EDITION) OR THE MAXIMUM TOTAL UNIFORM LOAD/SPAN DIVIDED BY TWO AS SHOWN IN TABLES 3-6 THROUGH 3-9 OF THE 13TH EDITION (ASD).
- SF-9 DECK STOP ANGLES, FASCIA ANGLES, HANGERS, CLIPS AND OTHER STRUCTURAL AND MISCELLANEOUS MEMBERS SHALL BE CONNECTED OR JOINED USING 3/16" OR LARGER FILLET OR GROOVE WELDS AS REQUIRED FOR ADEQUATE CONNECTION.
- SF-10 WHERE OPENINGS THROUGH ROOF ARE REQUIRED, FRAME AS DETAILED.
- SF-11 WHERE BRACING ANGLES ARE SHOWN BETWEEN END OF JOIST BOTTOM CHORD AND SUPPORTING BEAM OR GIRDER, MAKE THESE CONNECTIONS AFTER ALL DEAD LOAD ON JOISTS IS IN PLACE. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL FINAL CONNECTIONS ARE COMPLETED.
- SF-12 JOIST BRACES (AT EACH COLUMN) OCCUR AT OR NEAR EVERY INTERIOR COLUMN AT THREE JOISTS THAT ARE CLOSEST TO THE COLUMN CENTERLINE. SEE PLAN AND DETAILS.
- SF-13 PROVIDE ADEQUATE AND APPROPRIATE STRUCTURAL STEEL FRAMING APPROVED BY THE ENGINEER, FOR THE SUPPORT AND MOUNTING OF MECHANICAL EQUIPMENT RESTING ON, OR SUSPENDED FROM, STEEL JOISTS. MAXIMUM WEIGHT TO BE HUNG OFF JOISTS BETWEEN 'PANEL POINTS' (THE JUNCTIONS OF CHORDS AND DIAGONAL WEB MEMBERS) IS 50 LBS. LOADS IN EXCESS OF 50 LBS. REQUIRE JOISTS TO BE MODIFIED OR STRENGTHENED TO CARRY SUCH LOADS.

COLUMN SCHEDULE

MK	SECTION	TOP CONN.	BASE PLATE			REMARKS
			W x D x t	ANCHORS	SECT.	
C1	HSS 4x4x1/4	11/6.5	6x6x1/2	4-3/4" Ø X 1'-4" HCA	12/6.5	
C2	HSS 5x5x1/4	11/6.5	8x8x1/2	4-3/4" Ø X 1'-4" HCA	12/6.5	

SLAB-ON-GRADE NOTES:

- SG-1 FLOOR SLAB IS 5" THICK WITH #4 @ 12" o.c. EACH WAY IN TOP OF SLABS. SUPPORT REBARS ON HALF BRICKS SPACED AT 4'-0" o.c. EACH WAY.
- SG-2 VAPOR BARRIER SHALL COMPLY WITH ASTM 1745 CLASS A, MAXIMUM WTR 0.008, MINIMUM 15 MILS THICK. REFERENCE SPECIFICATIONS, SECTION 07260.
- SG-3 SAW CUT CONTINUOUS JOINTS IN SLAB (DETAILS 10/6.4 AND 11/6.4) 1/8" WIDE AND 1-1/4" DEEP WITHIN 24 HOURS AFTER FINISHING. FILL WITH SILICONE SEALANT. SEE PLAN FOR LOCATION.

GENERAL NOTES CONT.:

- GN-15 CONTRACTOR SHALL NOTIFY E.D.R. 24 HOURS IN ADVANCE OF ANY CONCRETE POUR OR OTHER NEEDED SITE CONSULTATION.
  - GN-16 THE STRUCTURAL DRAWINGS FOR THIS PROJECT ARE NOT INTENDED FOR USE AS ERECTION DRAWINGS. THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUB-CONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT, AND OBLIGATES HIMSELF TO ANY AND ALL EXPENSES, REAL OR IMPLIED, ARISING FROM SUCH ACCEPTANCE. THE CONTRACTOR SHALL MAINTAIN THESE DRAWINGS AT A CURRENT STATUS, INCLUDING ALL ADDENDA AND REVISIONS.
- UNDERFLOOR FILL NOTES:
- UF-1 BEFORE ANY CONSTRUCTION IS BEGUN, PERFORM ROUGH GRADING AND CUT SWALES SO THAT GROUNDS WILL DRAIN AWAY FROM THE BUILDING. MAINTAIN DRAINAGE DURING ALL PHASES OF CONSTRUCTION SO THAT STORM WATER WILL BE CONDUCTED AWAY FROM THE BUILDING. KEEP EXCAVATIONS PUMPED FREE OF STORM WATER AT ALL TIMES.
  - UF-2 PRECAUTIONS SHALL BE TAKEN TO PROTECT OPEN EXCAVATIONS FROM EXCESSIVE LOSS OR GAIN IN NATURAL MOISTURE LEVEL PRIOR TO PLACEMENT OF BASE MATERIAL. KEEP MOIST DURING DRY WEATHER AND KEEP STORM WATER PUMPED OUT, INCLUDING NIGHTS AND WEEKENDS, DURING RAINS.
  - UF-3 IN THE AREA OCCUPIED BY THE BUILDING, ASSUMING FINISH FLOOR AT (SEE CIVIL), CUT AND BALANCE GRADES IN THE BUILDING AREA TO EL. (SEE CIVIL) EXCAVATION SHOULD RESULT IN A MINIMUM OF FIVE FEET OF COMPACTED SELECT FILL BENEATH THE FLOOR SLAB. TESTING LABORATORY SHALL VERIFY IN WRITING THAT DEPTH OF FILL COMPLIES WITH THIS NOTE.
  - UF-4 EXPOSED SUBGRADE SHOULD BE PROOF ROLLED, UNDER DIRECTION OF GEOTECHNICAL ENGINEER, TO LOCATE AND DENSIFY ANY WEAK, COMPRESSIBLE ZONES. MAKE A MINIMUM OF 5 PASSES OF A FULLY-LOADED DUMP TRUCK OR SIMILAR HEAVILY LOADED PIECE OF CONSTRUCTION EQUIPMENT WEIGHING AT LEAST 20 TONS. WEAK OR SOFT AREAS IDENTIFIED SHALL BE REMOVED AND REPLACED WITH COMPACTED SELECT FILL. REFER TO PAGE 8 OF REPORT (UF-12).
  - UF-5 SCARIFY SUBGRADE TO A MINIMUM OF 6". MOISTURE CONDITION TO BETWEEN OPTIMUM AND PLUS FOUR PERCENT (+4) OF OPTIMUM MOISTURE, AND COMPACT TO A DRY DENSITY OF AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY PER ASTM D698 REQUIREMENTS.
  - UF-6 WITHIN THE BUILDING LINES, AND BEGINNING AT THE LOW END, BUILD UP TO THE ELEVATION WITHIN SIX INCHES OF UNDERSIDE OF THE SLAB WITH SELECT STRUCTURAL FILL PLACED IN 8" HORIZONTAL LIFTS AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY STANDARD PROCTOR (ASTM D698) AT A MOISTURE CONTENT BETWEEN (-) 2 AND (+) 3 PERCENT OF OPTIMUM WATER CONTENT.
  - UF-7 STRUCTURAL (SELECT) FILL MATERIALS FOR USE UNDER BUILDING SLAB SHALL HAVE A LIQUID LIMIT LESS THAN 20 AND A PLASTICITY INDEX OF BETWEEN 7 AND 20. THE FILL SHALL CONTAIN NO PARTICLES GREATER THAN 3 INCHES IN DIAMETER. THE PERCENT PASSING U.S. STANDARD SIEVE NO. 4 SHALL BE BETWEEN 40 AND 60 PERCENT; PERCENT PASSING NO. 40 SHOULD BE BETWEEN 10 AND 50 PERCENT; AND PERCENT PASSING SIEVE NO. 200 SHOULD BE LESS THAN 20 PERCENT. ACCEPTABLE ARE SOILS CONFORMING TO TEXAS HIGHWAY DEPT. SPECIFICATIONS, ITEMS 248, TYPE 'A', 'B', OR 'C', GRADES 1, 2, OR 3. SUBMIT WRITTEN CERTIFICATION OF COMPLIANCE WITH TxDOT SPECIFICATIONS BY TEST PERFORMED ON FIELD SAMPLES. CONSULT W/GEOTECHNICAL ENGINEER FOR ALTERNATE FILL MATERIALS. LAST LIFT (6") SHALL BE TxDOT ITEM 247 TYPE 'A' OR 'B', GRADE 1 OR 2 BASE.
  - UF-8 PERFORM ALL EARTHWORK DESCRIBED ABOVE BEFORE TRENCHING FOR GRADE BEAMS OR MECHANICAL LINES.
  - UF-9 EMPLOY AN INDEPENDENT TESTING LABORATORY TO TAKE DENSITY TESTS OF RECOMPACTED SCARIFIED MATERIAL AND DENSITY TESTS OF EACH LIFT OF FILL, AT THE RATE OF ONE PER 5,000 SQUARE FEET OR FRACTION THEREOF.
  - UF-10 AFTER WALL PANELS HAVE BEEN ERECTED AND ALL CONNECTIONS MADE, WITHIN THE INSIDE FACE OF WALL PANELS AND THE CONSTRUCTION JOINT OF THE SLAB (POUR STRIP) BUILD UP TO THE ELEVATION OF THE UNDERSIDE OF THE SLAB WITH CONTROLLED LOW STRENGTH MATERIAL, 'FLOWABLE FILL' AS DEFINED IN ACT 229R AND 2004 TxDOT ITEM 401.
  - UF-11 BACKFILL TOP TWO FEET OF UTILITY TRENCHES OUTSIDE BUILDING LINES WITH ON-SITE CLAYS OR READY MIXED FLOWABLE FILL TO SEAL OFF SURFACE WATER INFILTRATION.
  - UF-12 SUBSURFACE SOILS INVESTIGATIONS PREPARED BY ROCK ENGINEERING, PROJECT #G222897 JANUARY 27<sup>TH</sup> 2023

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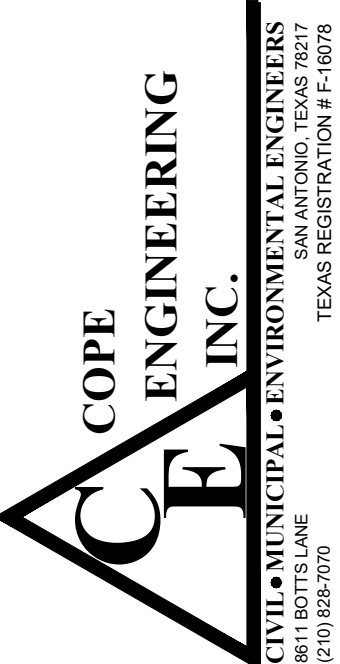
These drawings, as instruments of professional service, are the property of Cope Engineering, Inc. for use solely with respect to this Project and shall not be reproduced for other purposes. The Professional Engineer whose seal appears on the structural construction documents is the project Structural Engineer-of-Record (SER) who bears legal responsibility for the performance of the structural framing relating to the public health, safety and welfare. No other party, whether or not a Professional Engineer, may complete, correct, revise, delete or add to these construction documents or perform inspections of the work without the written permission of the SER.

GENERAL NOTES:

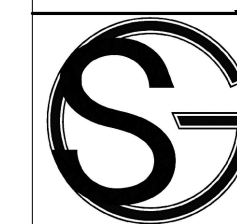
- GN-1 THIS STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (2012 IBC), AS ADOPTED AND AMENDED BY THE CITY OF CONVERSE, AND APPLICABLE INDUSTRY STANDARDS (AISC, ACI, ETC.).
- GN-2 THE DESIGN GRAVITY LOADS ARE:
  - SUPERIMPOSED DEAD LOADS
  - ROOF ..... 6 PSF
  - RIGID INSULATION ..... 3 PSF
  - FIRE SPRINKLER SYSTEM ..... 3 PSF
  - HVAC ..... 4 PSF
  - CEILING ..... 3 PSF
  - MISC ..... 1 PSF
- LIVE LOADS
  - ROOF (TYPICAL) ..... 20 PSF
  - MECHANICAL EQUIPMENT .... AS INDICATED ON PLANS
  - GROUND SNOW LOAD ..... 5 PSF
- WIND LOAD IS BASED ON BASIC WIND SPEED OF 105 MPH, EXPOSURE B, AND AN IMPORTANCE FACTOR (Iw) AS PER IBC OF 1.00. NET UPLIFT = 7 PSF.
- SEISMIC: SITE CLASS D; Ss=0.100g; S1=0.025g
- GN-3 CONCRETE SHALL BE LABORATORY DESIGNED TO DEVELOP MINIMUM 28-DAY COMPRESSIVE STRENGTHS AS GIVEN BELOW. REFER TO SPECIFICATIONS FOR AGGREGATES, CEMENTS, ADMIXTURES, ETC.
  - DRILLED FOOTINGS ..... 3000 PSI
  - BEAMS AND SLABS-ON-GRADE ..... 3000 PSI
  - JOB CAST WALLS ..... 4000 PSI
- NOTE: FLY ASH WILL BE PERMITTED UP TO 20% PORTLAND CEMENT REPLACEMENT.
- GN-4 REINFORCING STEEL SHALL BE FROM NEW BILLET AND SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
  - A615-GR 40 (PLAIN) ..... FOOTING SPIRALS
  - A108 (FLAT SHEETS ONLY) ..... WELDED WIRE FABRIC
  - A615-GR 60 ..... ALL OTHER REINFORCING
  - ASTM A108-60T ..... HEADED CONCRETE ANCHORS
  - ASTM A496 ..... DEFORMED BAR ANCHORS
- GN-5 DETAILING OF CONCRETE REINFORCEMENT BARS AND ACCESSORIES SHALL BE IN ACCORDANCE WITH LATEST ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315). BAR SUPPORTS SHALL HAVE PLASTIC COATED LEGS OR BE HOT DIP GALVANIZED AFTER FABRICATION. FOR ON-GRADE CONSTRUCTION USE CONCRETE BRICKS.
- GN-6 BAR LAPS AND SPLICES SHALL BE A LENGTH EQUAL TO AT LEAST 40-BAR DIAMETERS. PROVIDE CONTINUOUS BARS AT CORNERS. WELDED WIRE MESH SHALL BE LAPPED 8" MINIMUM AT SPLICE POINTS, OR 1-1/2 MESHES, WHICHEVER IS GREATEST.
- GN-7 MECHANICAL AND ELECTRICAL CONDUITS IN SLABS SHALL RUN UNDER THE TOP LAYER OF SLAB REINFORCING. PROVIDE A MINIMUM OF 1-1/2" CLEAR BETWEEN CONDUITS AND BETWEEN CONDUIT AND PARALLEL REINFORCING. DO NOT 'BUNDLE' CONDUITS. INDIVIDUAL CONDUITS IN SLAB SHALL NOT EXCEED 1" DIAMETER. GROUPS OF CONDUITS OR CONDUITS LARGER THAN 1" DIAMETER WILL REQUIRE SLAB TO BE THICKENED TO MAINTAIN FULL SCHEDULED THICKNESS.
- GN-8 REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR DIMENSIONS, LOCATIONS AND SIZES OF FLOOR DEPRESSIONS, FLOOR OPENINGS, SLEEVES, INSERTS, ANCHORS AND BOLTS REQUIRED BY THE VARIOUS TRADES.
- GN-9 THE CONTRACTOR AND FABRICATOR SHALL VERIFY ALL QUANTITIES, DIMENSIONS AND CONDITIONS AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
- GN-10 CONTRACTOR SHALL PROVIDE NECESSARY CONSTRUCTION JOINTS IN MONOLITHIC CONCRETE FRAMING SO THAT NOT MORE THAN 400 CUBIC YARDS IS POURED IN ONE DAY. LOCATION OF CONSTRUCTION JOINTS MUST HAVE PRIOR APPROVAL OF STRUCTURAL ENGINEER AND SHALL GENERALLY BE LOCATED AT OR NEAR MID-POINTS OF SPANS OF SLABS AND BEAMS. ALL CONTINUOUS REINFORCING SHALL BE CARRIED THROUGH THE JOINT. SEE DETAILS FOR CONTINUOUS KEY BETWEEN ADJACENT POURS.
- GN-11 'HEADED CONCRETE ANCHORS' (HCA) SHALL BE OF 50,000 psi STEEL ROD WITH UPSET ENDS, AUTOMATICALLY ARC WELDED THROUGH CERAMIC FERRULES, 'NELSON CONCRETE ANCHORS' OR EQUAL. 'DEFORMED ANCHOR STUDS' (DAS) SHALL BE OF 80,000 PSI STEEL CONFORMING TO ASTM A496, AUTOMATICALLY ARC WELDED THROUGH FERRULES, 'NELSON D2L DEFORMED WIRE ANCHORS', OR EQUAL.
- GN-12 UTILITIES PENETRATING BUILDING SHALL BE FLEXIBLE, USING SLEEVE JOINTS, BENDS, LOOPS, ETC. TO PERMIT MOVEMENTS DUE TO PVR OF UNDERLYING SOILS.
- GN-13 REFER TO SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS. AS A MINIMUM THE FOLLOWING IS REQUIRED:
  - 1. CONCRETE MIX DESIGNS: SECTION 03300
  - 2. SHOP DRAWINGS (REF. TO SPECIFICATION SECTION)
    - \* JOB CAST CONCRETE WALL PANELS: 03410
    - \* REINFORCING STEEL PLACEMENT AND CUT SHEETS, INCLUDING PERS: 03300 AND 03410
    - \* STRUCTURAL STEEL: 05100
    - \* METAL DECK: 05300
    - \* OPEN WEB STEEL JOISTS: 05210
  - 3. VAPOR BARRIER: 07260
- GN-14 REFER TO NOTES FOR 'SPECIAL INSPECTIONS.' PERIODIC SITE OBSERVATIONS BY THE ENGINEER-OF-RECORD ARE NOT SUBSTITUTES FOR 'SPECIAL INSPECTIONS.' THE SITE OBSERVATIONS BY THE E.D.R. ARE SOLELY FOR DETERMINING IF WORK IS PROCEEDING IN GENERAL CONFORMANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS.

Metting Engineering, PLLC

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Follett, TX 78065  
Tel: 361-222-1111  
Toll Free: 1-800-999-1089



No.	PERMIT SET DESCRIPTION	06/05/23 DATE
1		



SAM GARCIA ARCHITECT  
1200 Auburn Ave., Suite 280  
McAllen, TX 78504  
(956) 631-8327  
info@samgarciaarchitect.com

**KHIT**  
CHIROPRACTIC  
WELLNESS

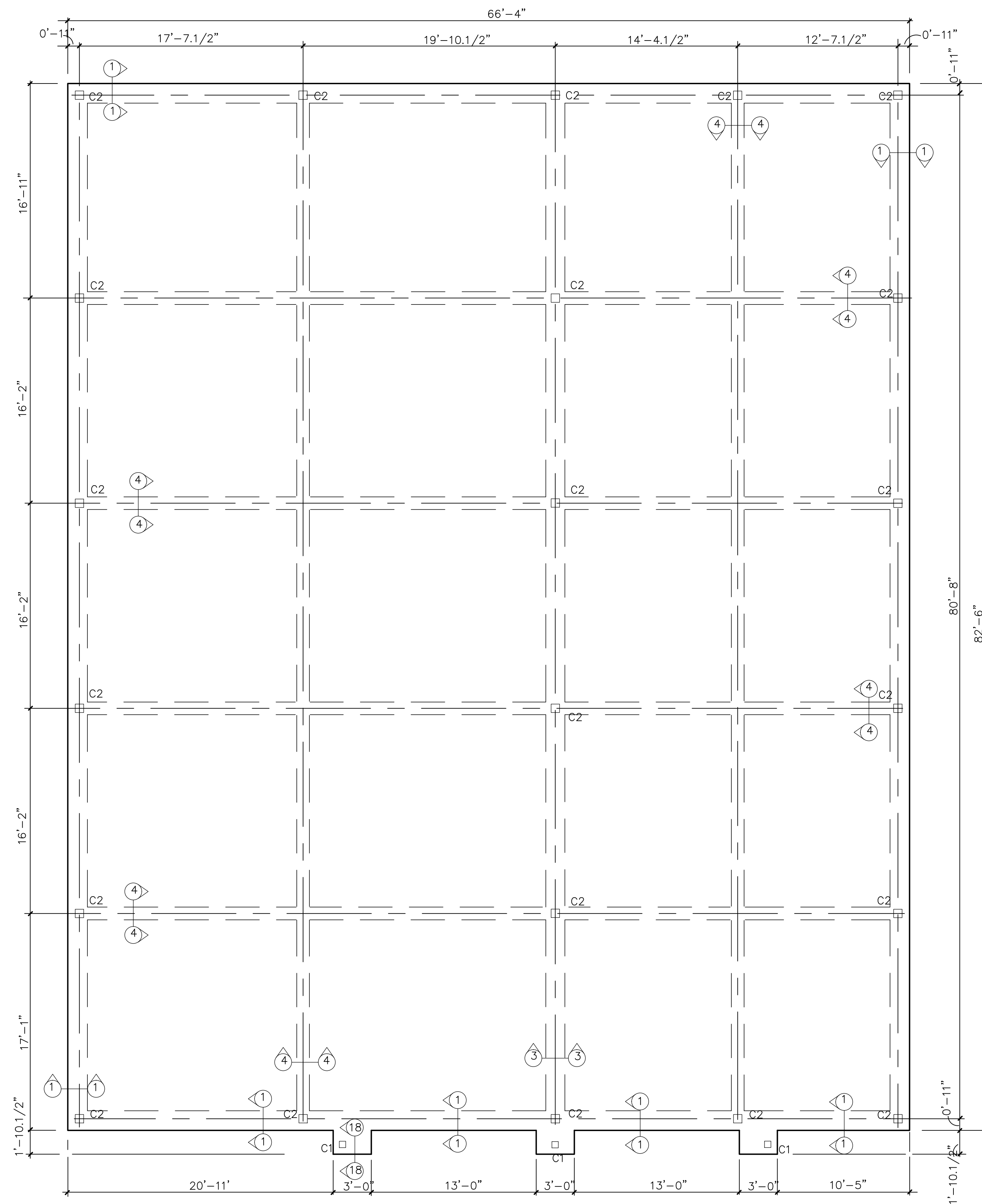
KYLE, TX

2022-008  
GENERAL  
FOUNDATION NOTES

S1.01

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**FOUNDATION LAYOUT- KHIT CHIROPRACTIC WELLNESS**

SCALE: 3/16"=1'

BEAM WIDTH (MINIMUM)	EXT. BEAM DEPTH	EXT. BM. DEPTH IN GRADE	INT. BEAM DEPTH	EXT. BEAM BARS T & B	INT. BEAM BARS T & B	STIRRUP EXT. BEAM	STIRRUP INT. BEAM	PAD BARS	SLAB THICKNESS
24" EXT. 24" INT.	36" MIN.	12" MIN.	36" MIN.	3-#8 BTM 3-#8 TOP	2-#6 BTM 2-#6 TOP	#3 @24" O.C.	#3 @24" O.C.	#4 @12" O.C.	5"

BUILDER/CONTRACTOR TO VERIFY ALL DIMENSIONS, DROP AREAS, FLOOR PENETRATIONS, AND BLOCK-OUT LOCATIONS ON SITE.

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**KHIT  
 CHIROPRACTIC  
 WELLNESS**

2022-008

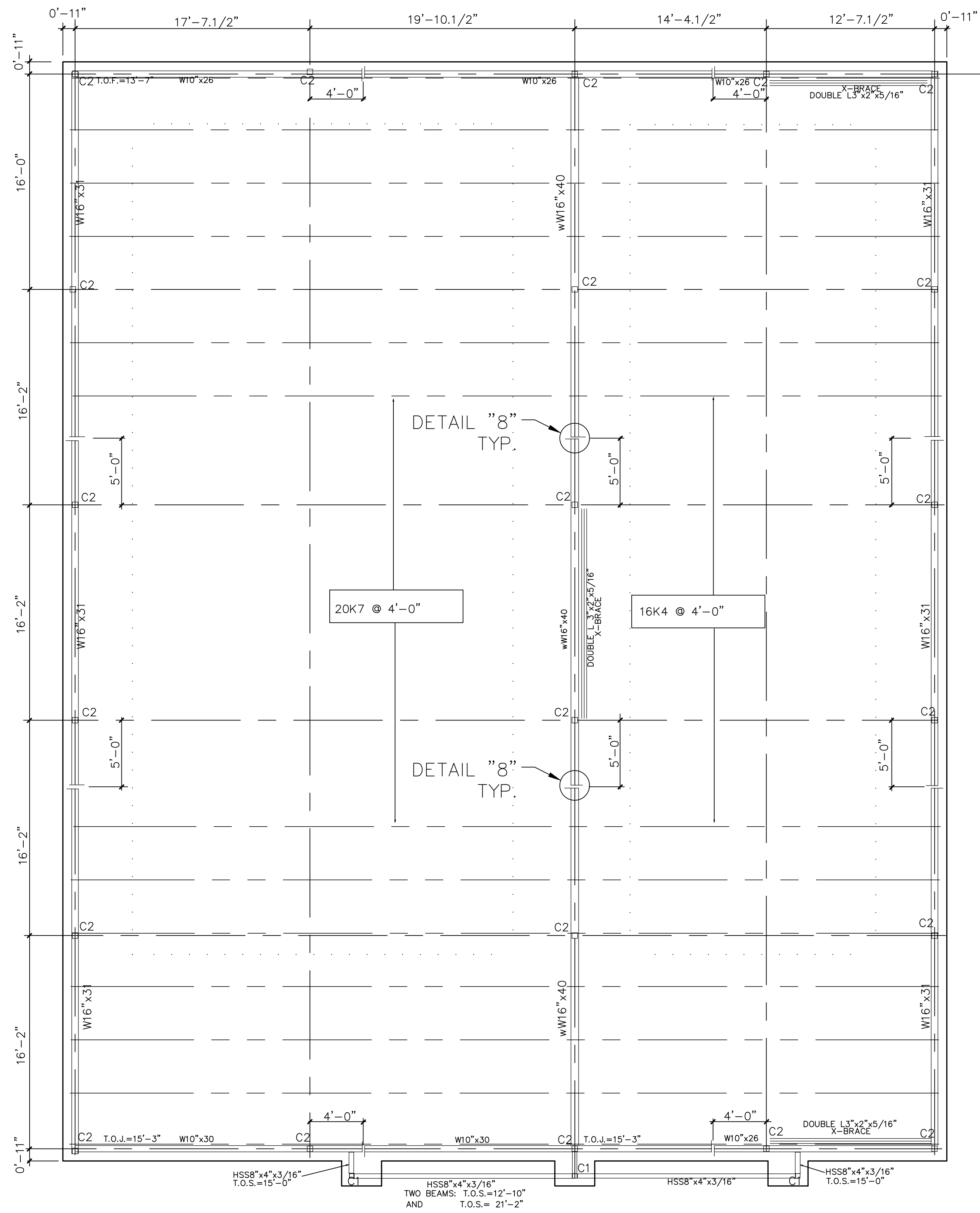
KYLE, TX

**FOUNDATION PLAN**

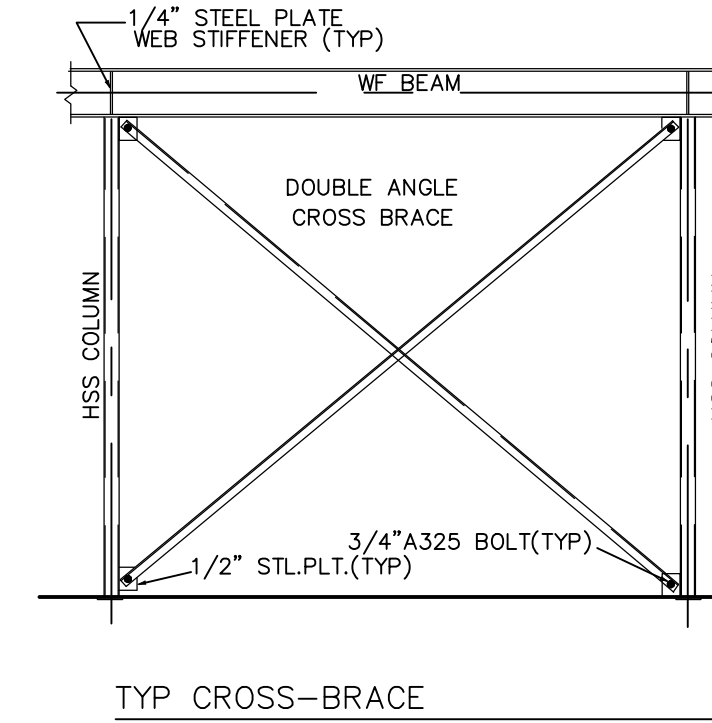
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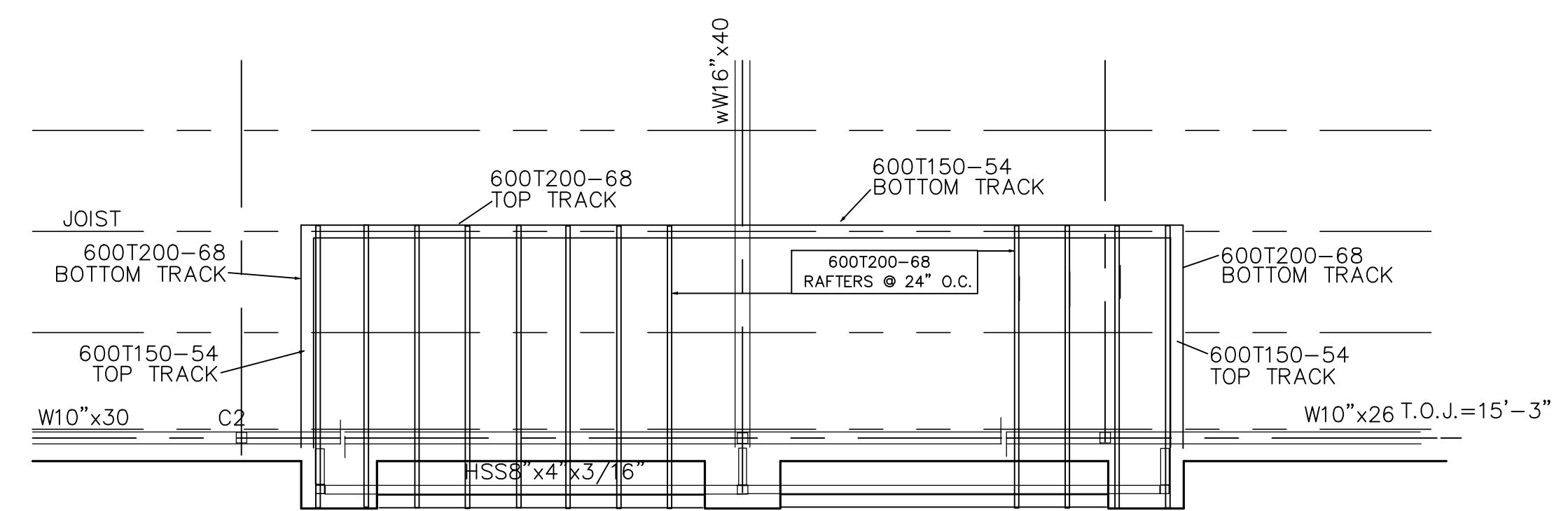




**ROOF FRAMING PLAN**  
SCALE: 3/16"=1'



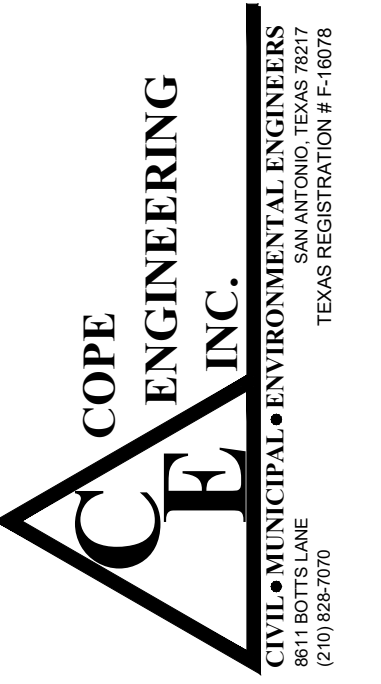
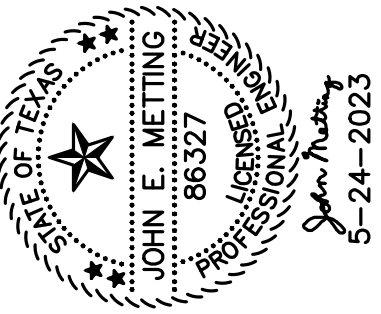
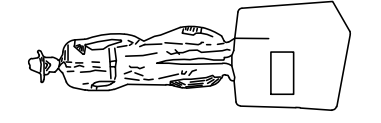
TYP. CROSS-BRACE  
SCALE: N.T.S.



**ENTRY ACCENT FRAMING DETAIL**  
SCALE: 3/16"=1'

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TBE Firm #F-10869



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**KHIT CHIROPRACTIC WELLNESS**

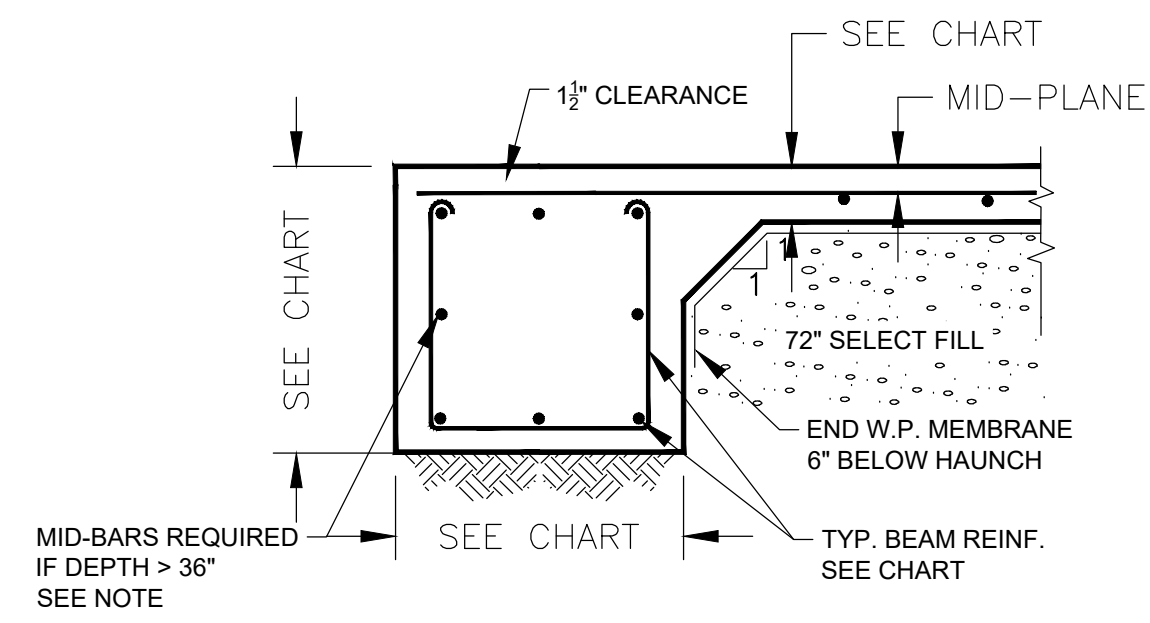
KYLE, TX

2022-008  
ROOF FRAMING PLAN

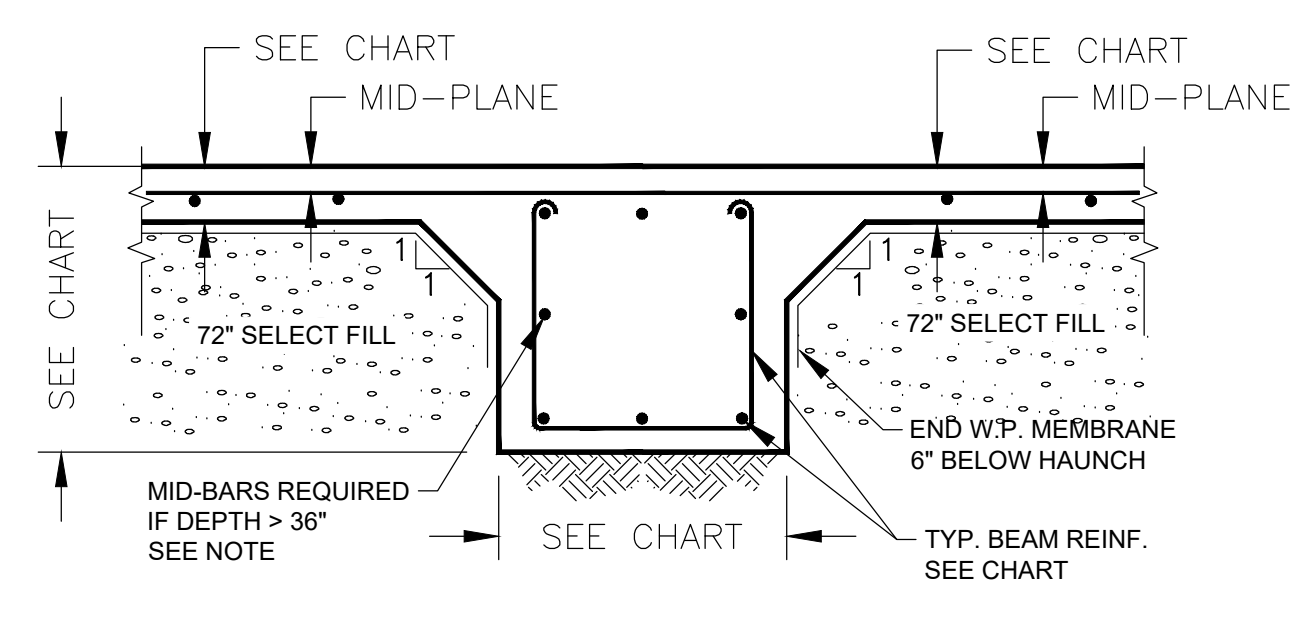
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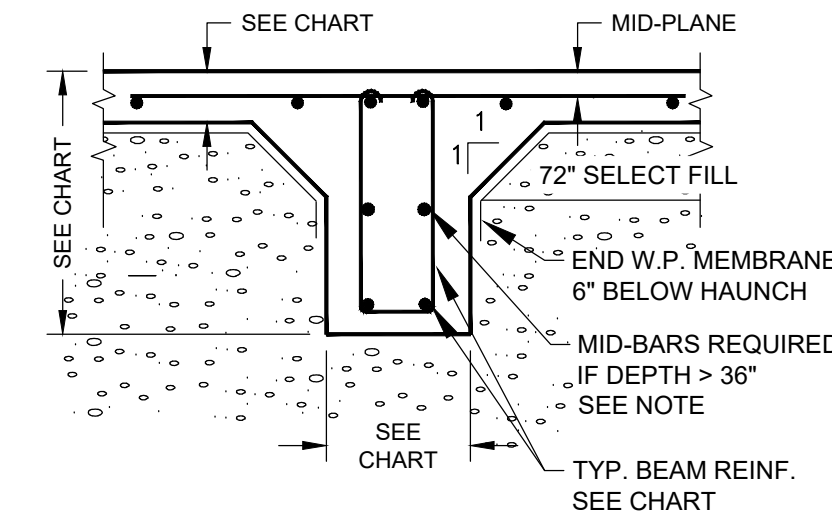




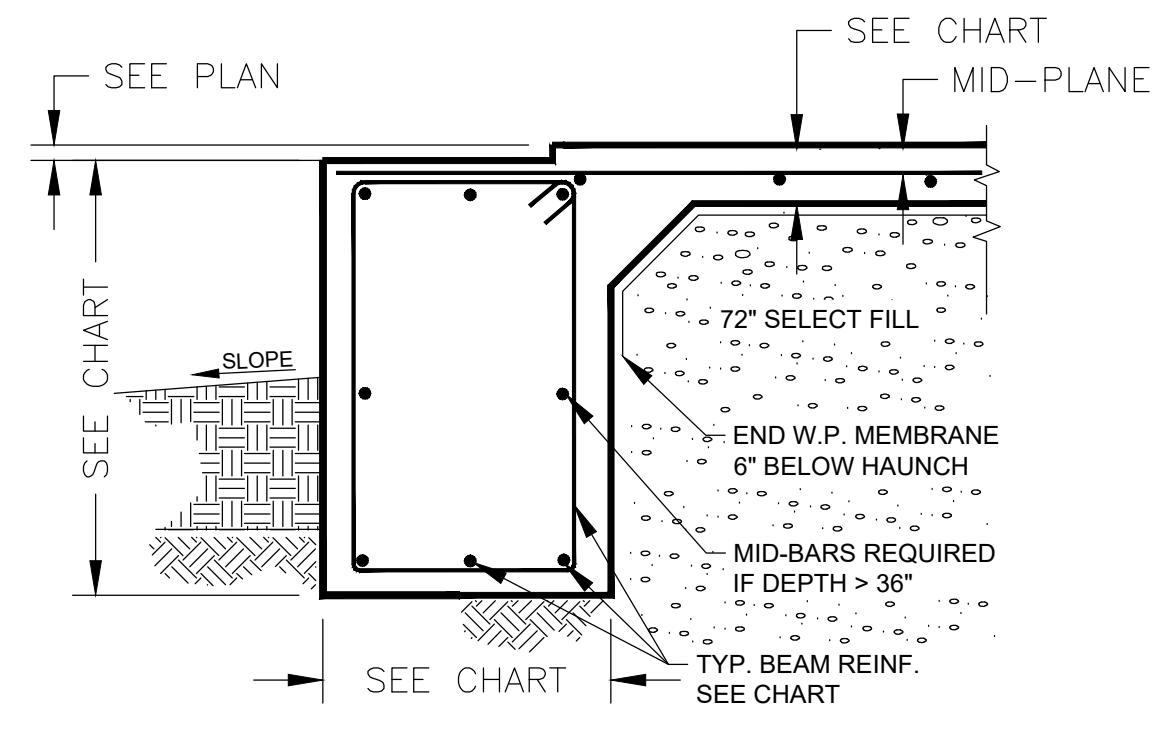
**DETAIL-1**  
LARGE EXT. BEAM



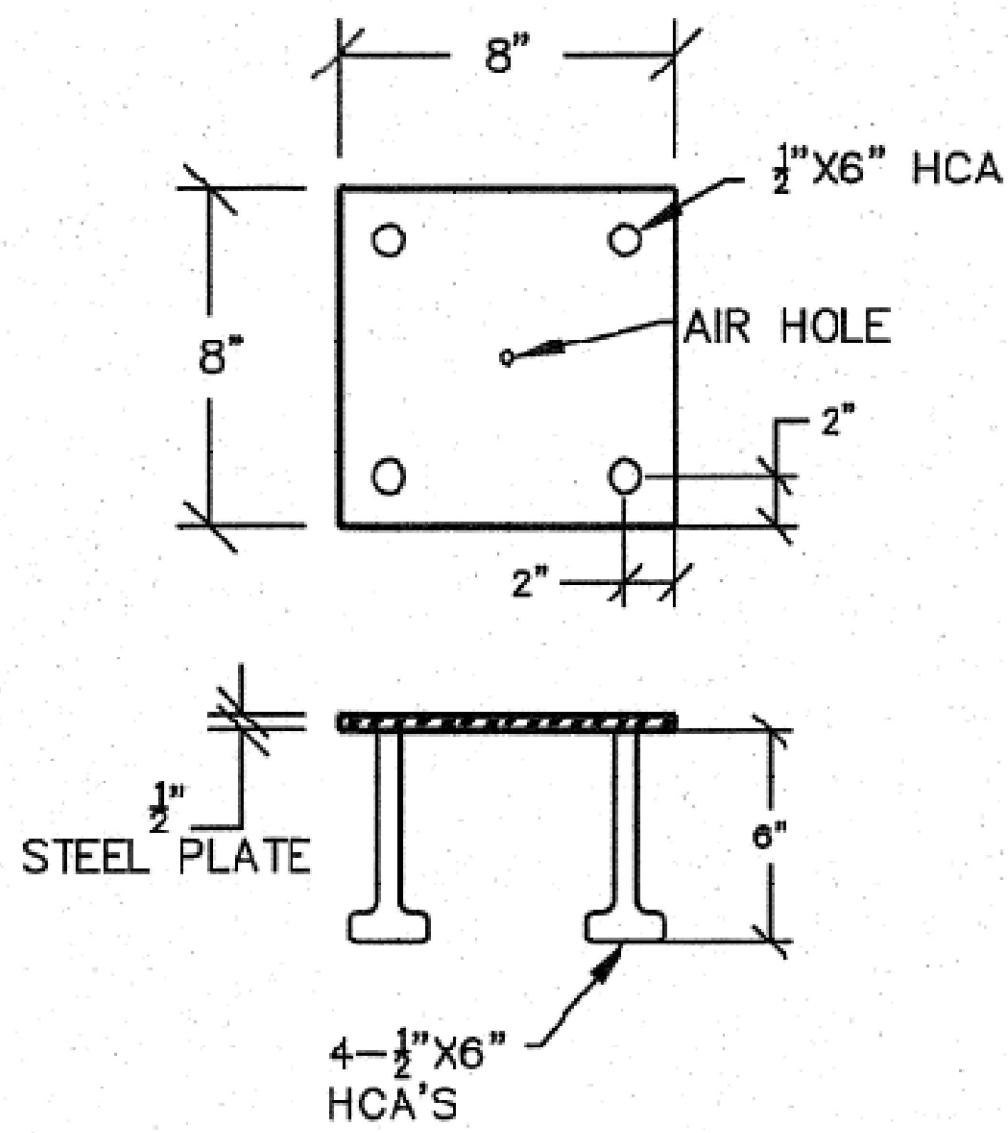
**DETAIL-3**  
LARGE INT. BEAM



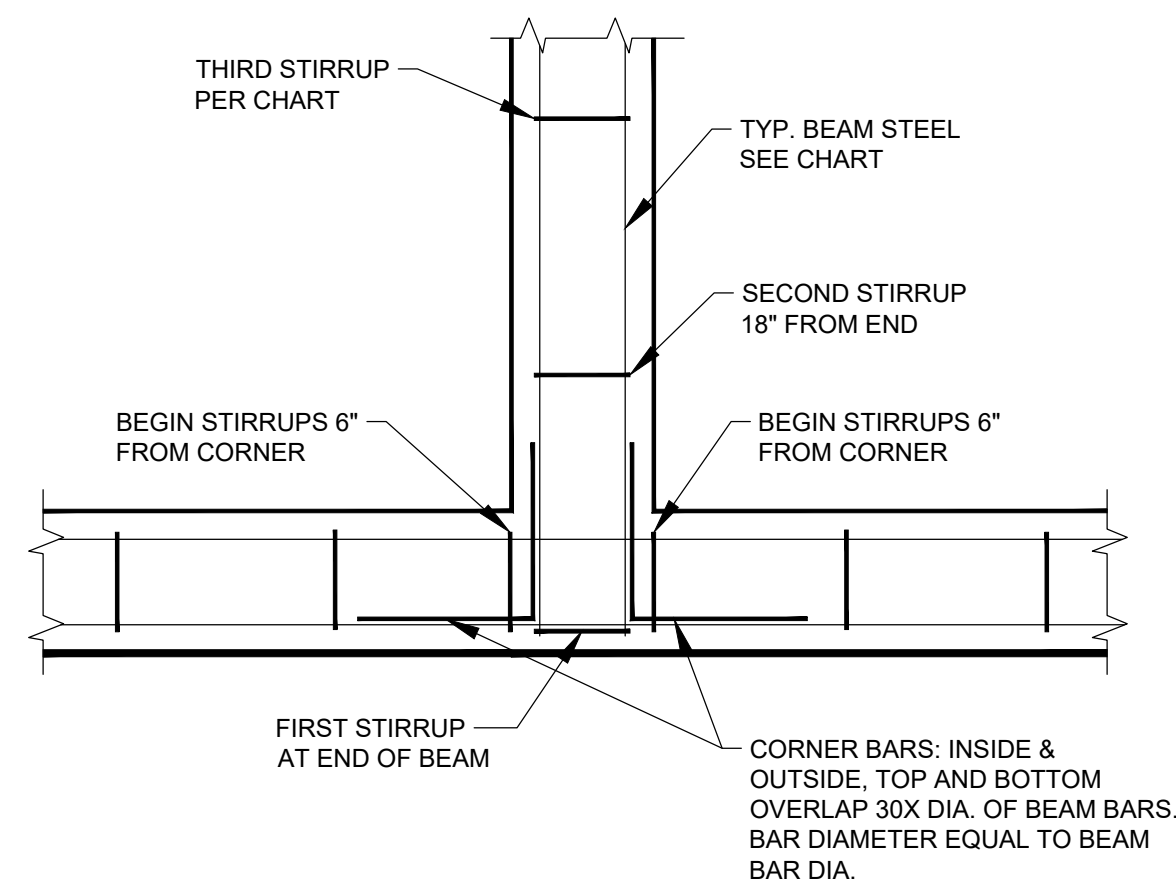
**DETAIL-4**  
TYP. INT. BEAM DETAIL



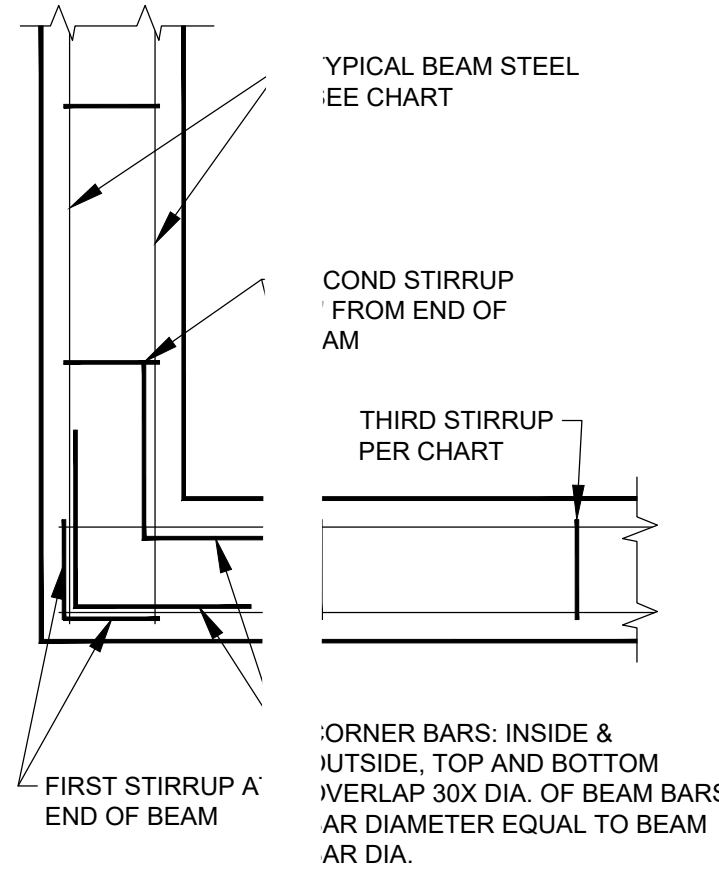
**DETAIL-18**  
WIDE EXT. BEAM



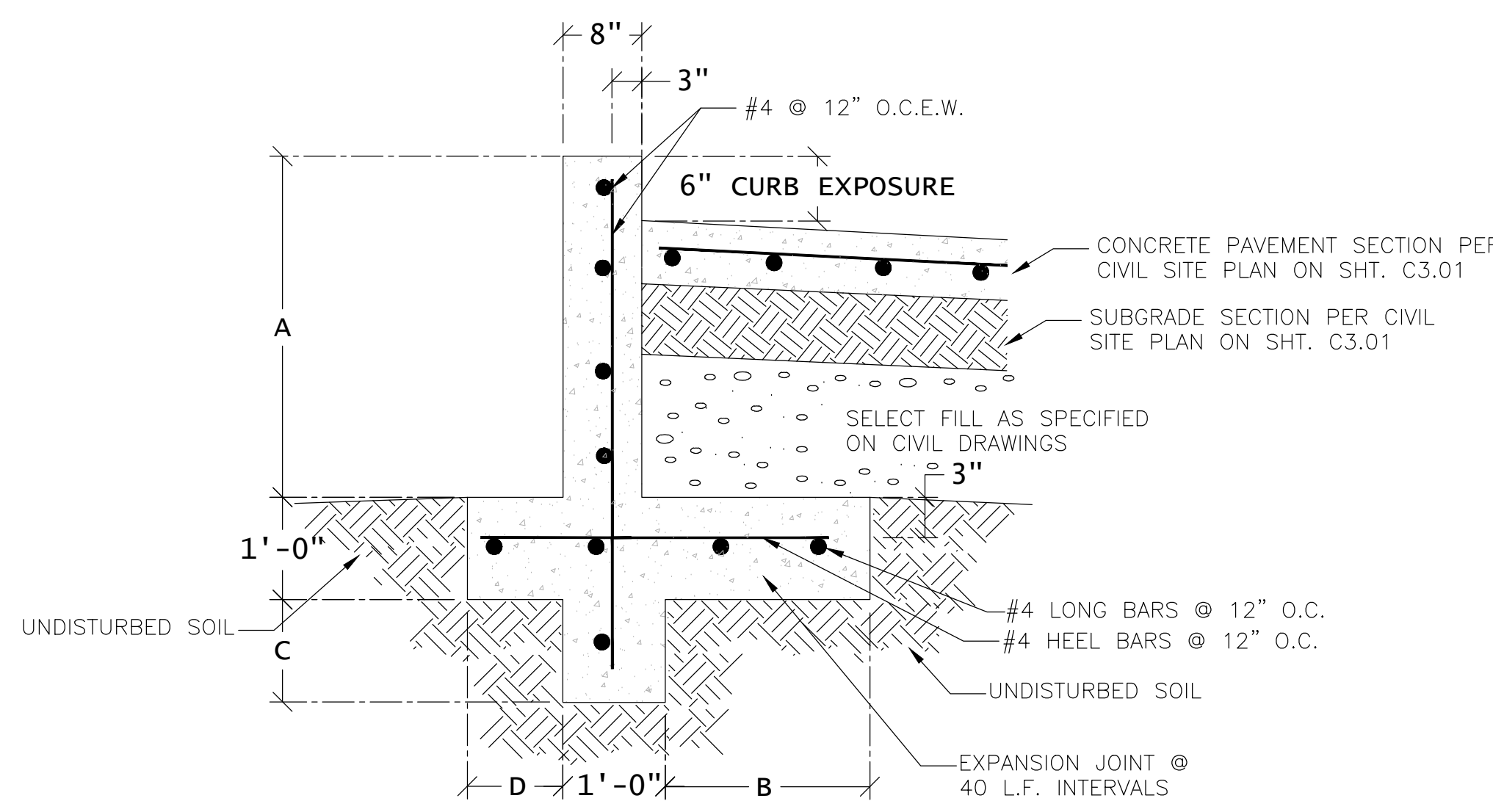
**PLATE PA**  
(PLATE PB IS 6" X 6")  
**EMBEDDED PLATE DETAIL**



**INTERSECTION DETAIL**  
BEAM INTERSECTION DETAIL



**CORNER DETAIL**  
TYP. EXT. CORNER BEAM



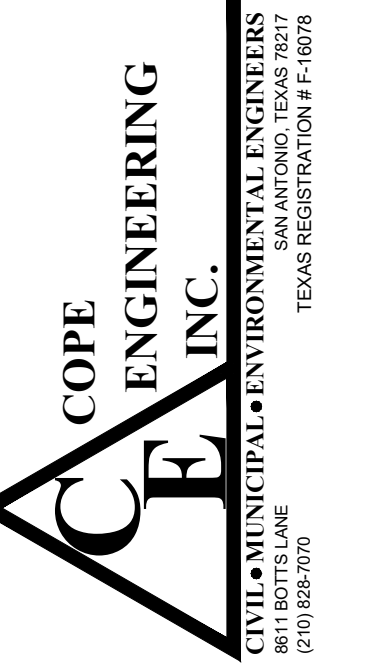
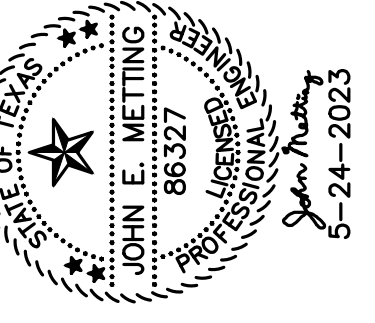
**RETAINING WALL DETAIL**  
N.T.S.

RETAINING WALL HEIGHT (A)	DISTANCE (B)	(C)	(D)
1' - 2'	1'-0"	0'-8"	0'-0"
2' - 3'	2'-0"	1'-0"	0'-8"
3' - 4'	2'-6"	1'-6"	1'-0"

NOTE: ALL CONCRETE  
3000 PSI (28 DAY)

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TDD: 409-683-10899



No.	PERMIT SET DESCRIPTION	DATE
1	PERMIT SET	06/05/23



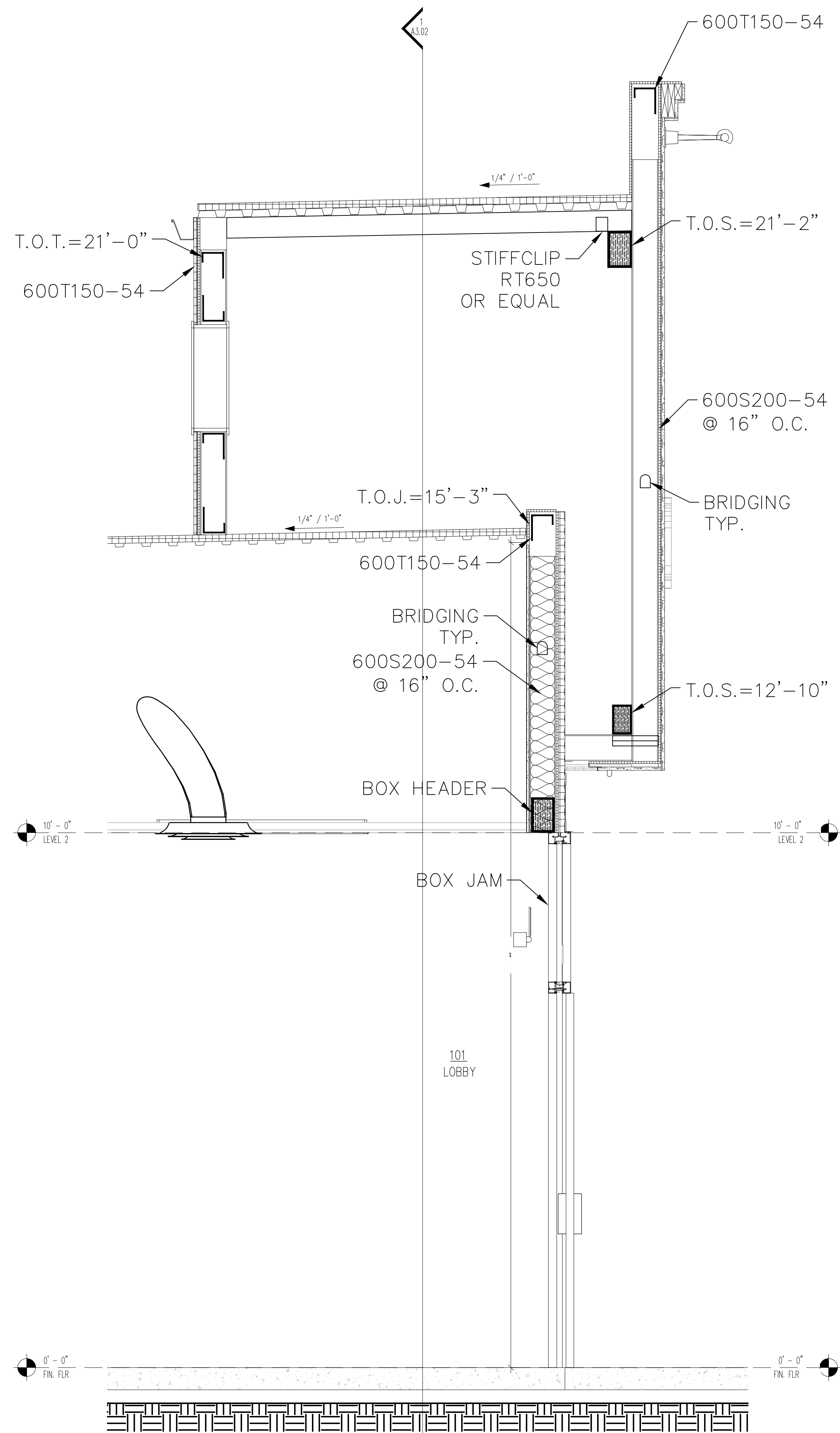
**KHIT CHIROPRACTIC WELLNESS**

2022-008  
FOUNDATION SECTIONS & DETAILS

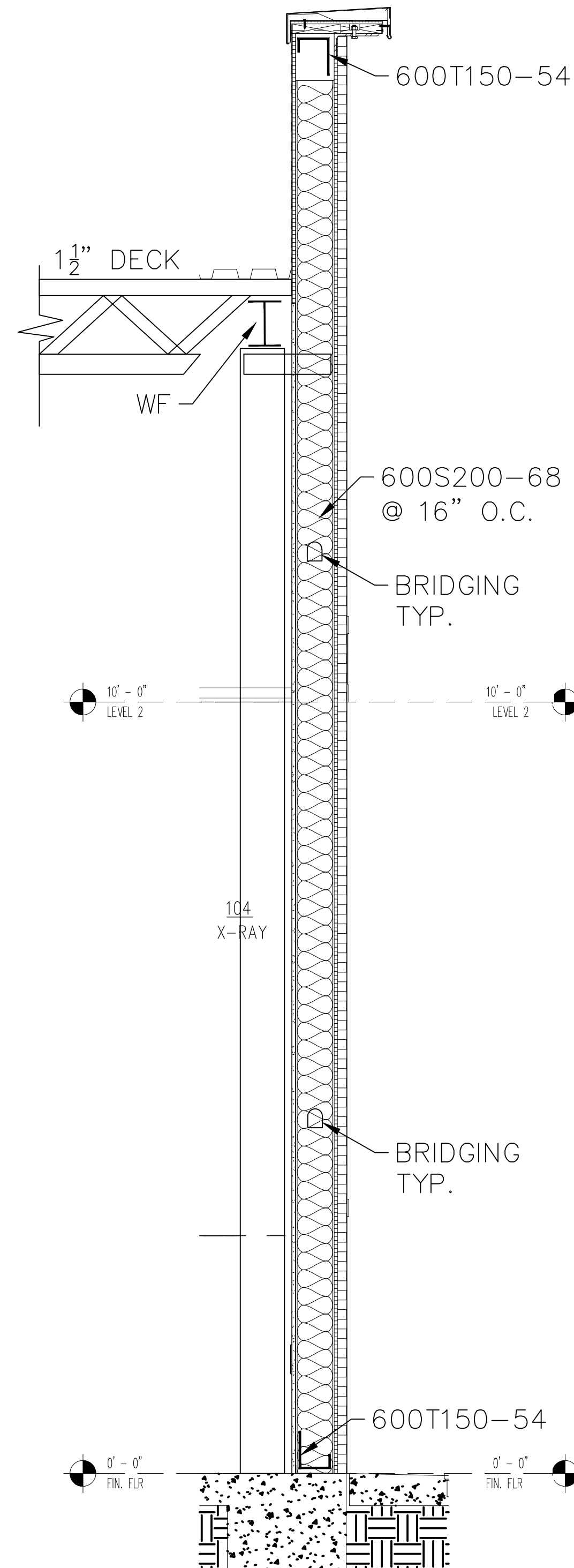
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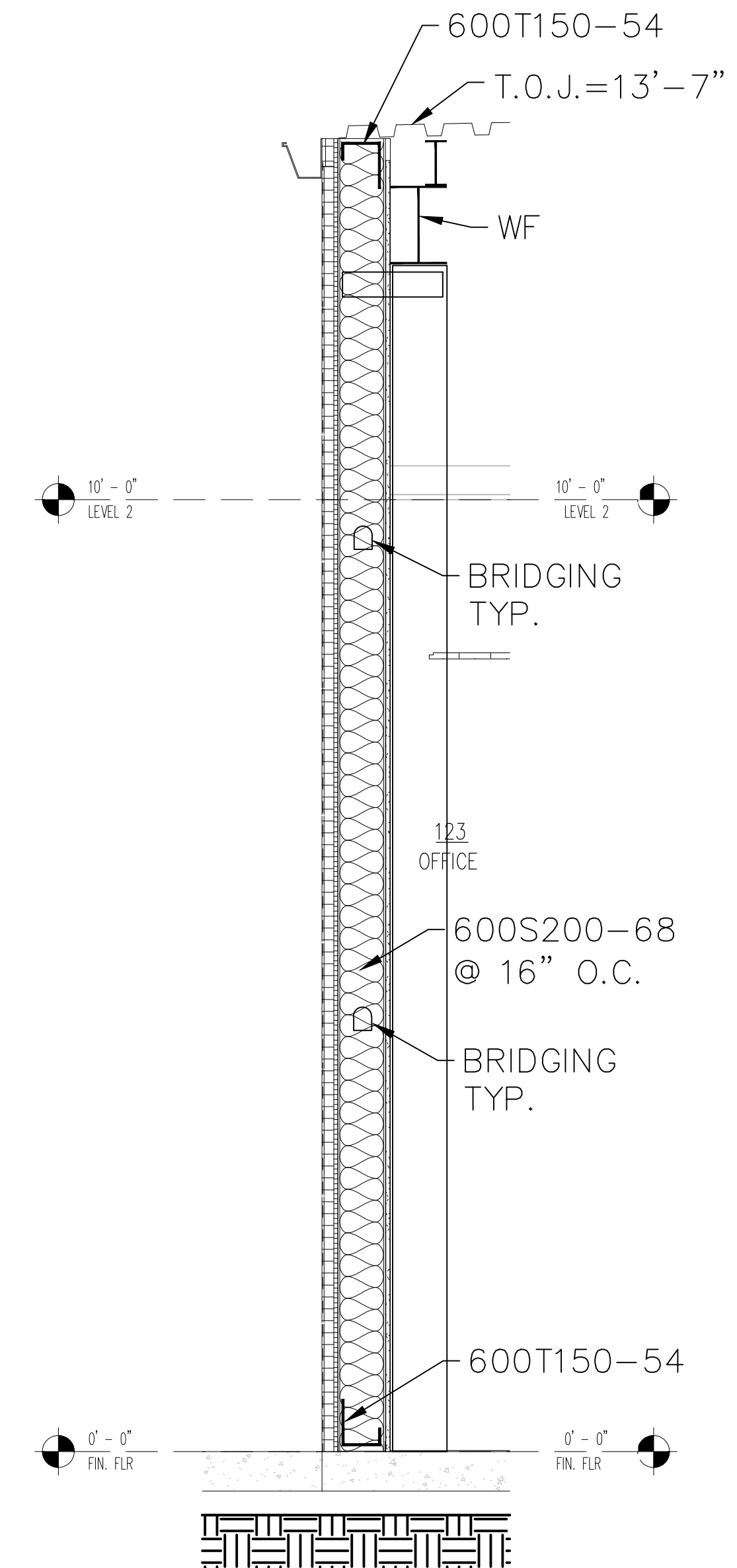




**3** WALL SECTION  
3/4" = 1'-0"



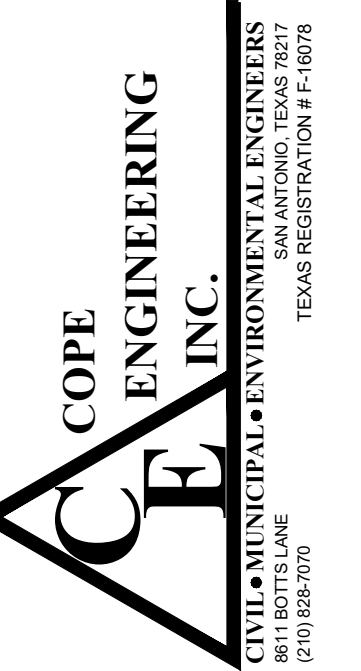
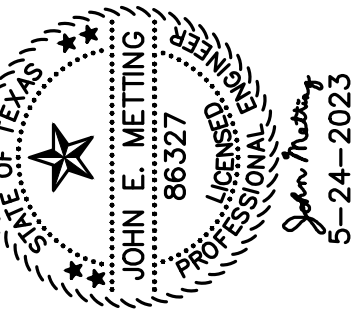
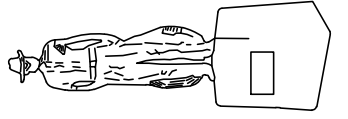
**2** WALL SECTION  
3/4" = 1'-0"



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

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Poblet, TX 78065  
817-251-1888  
TBE Firm #F-10889



No.	PERMIT SET DESCRIPTION	DATE
1	PERMIT SET	06/05/23

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info@samgarciaarchitect.com

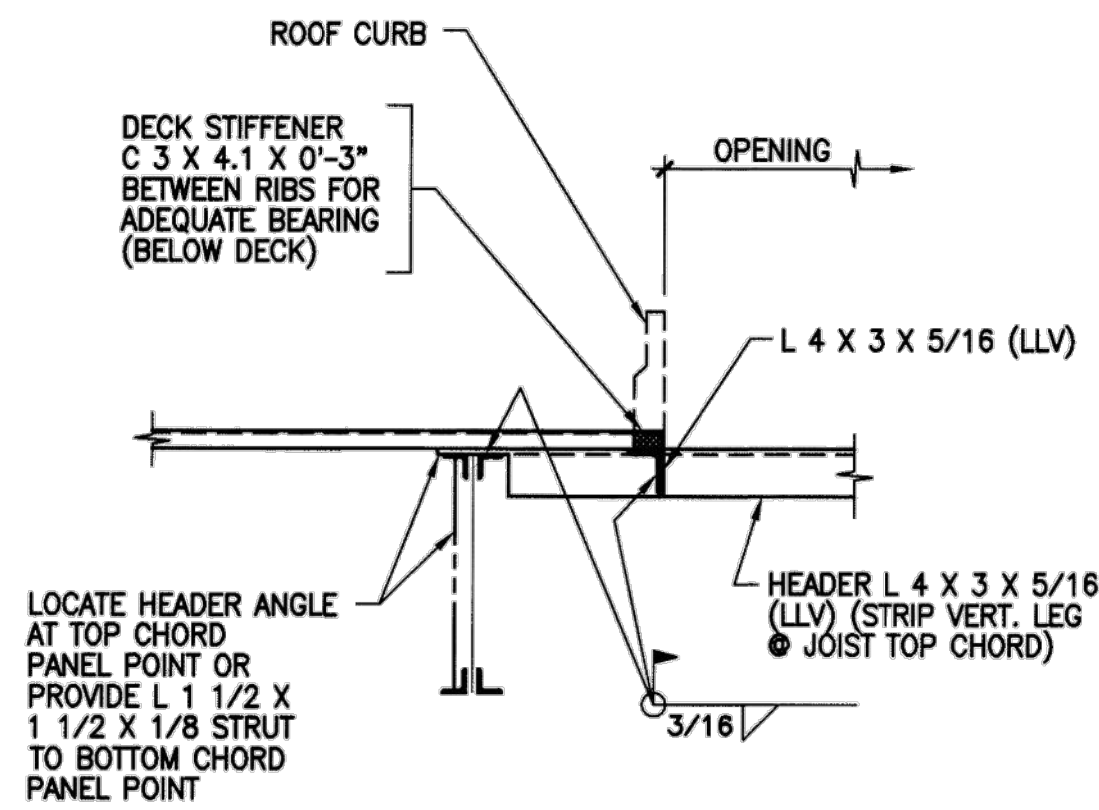
**KHIT**  
CHIROPRACTIC  
WELLNESS

KYLE, TX  
2022-008  
WALL SECTIONS

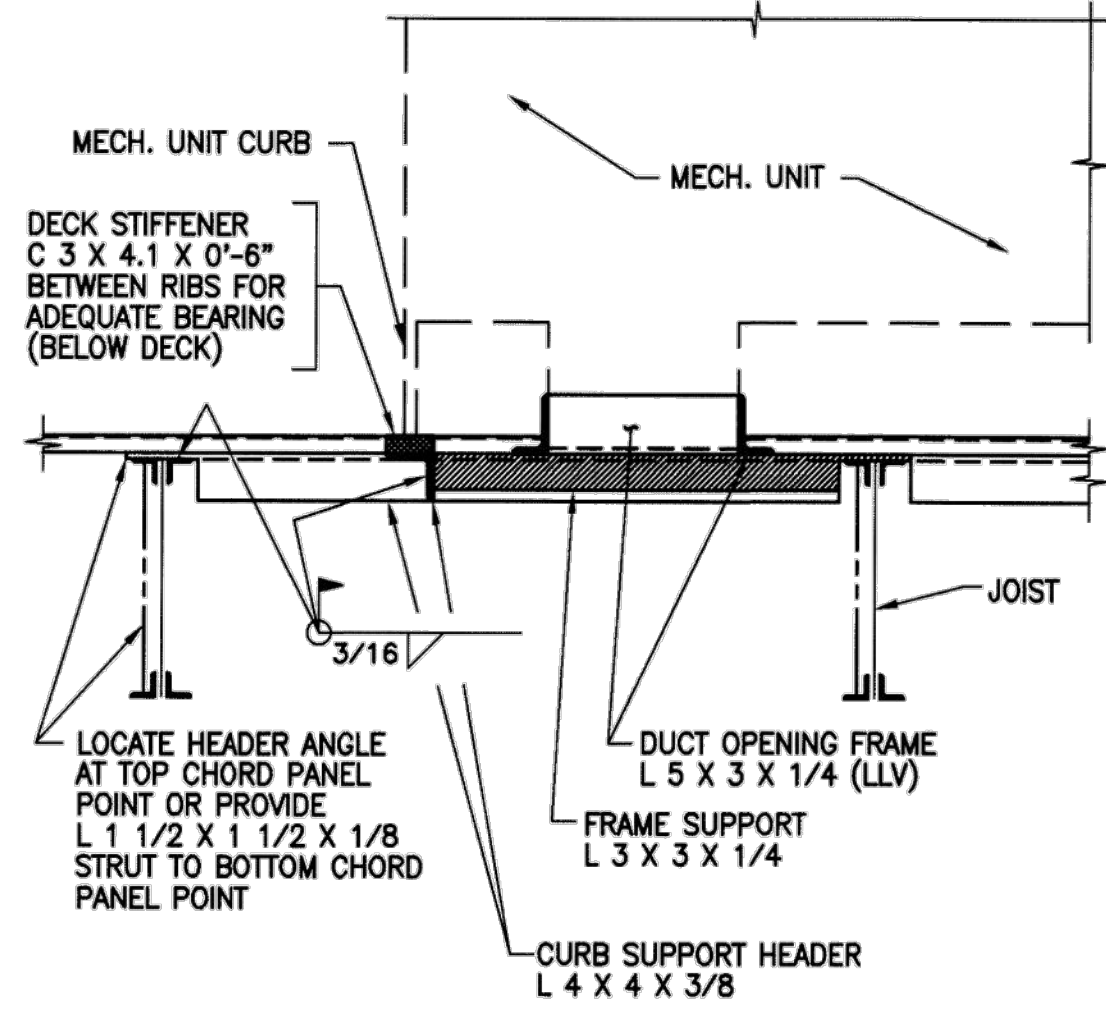
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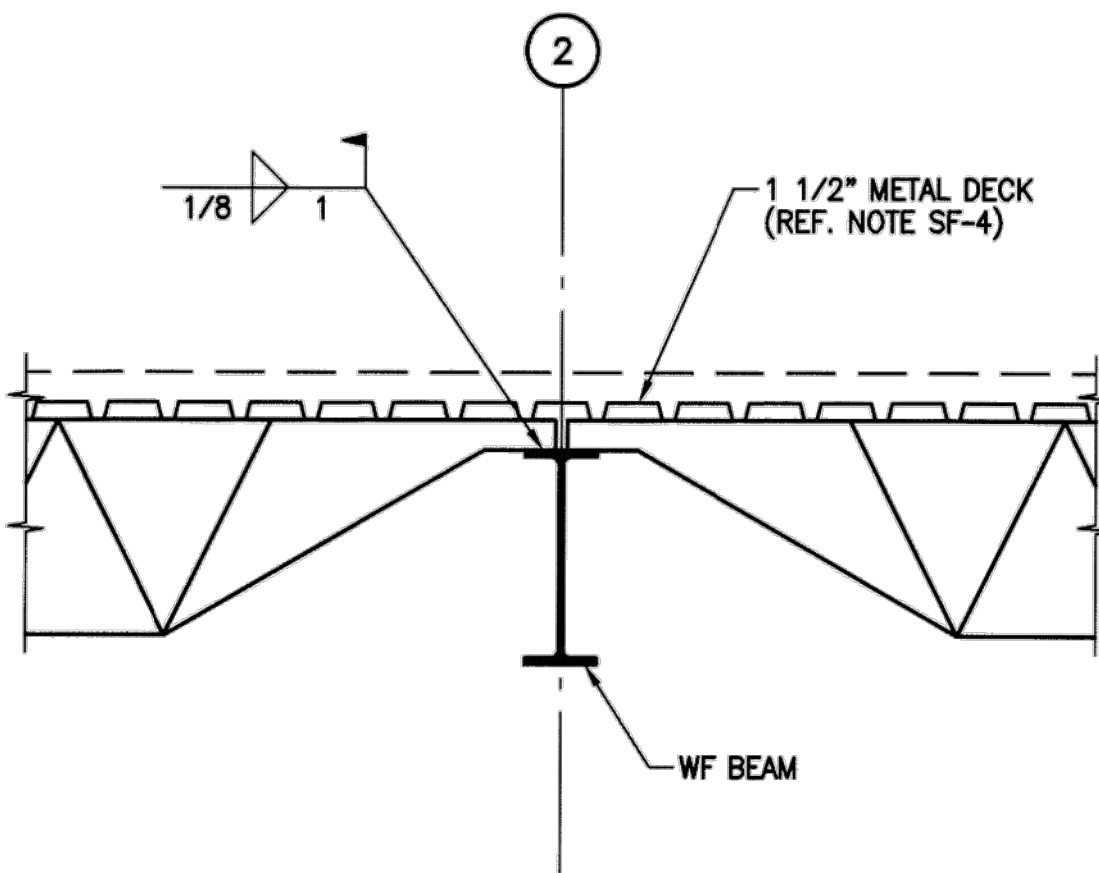




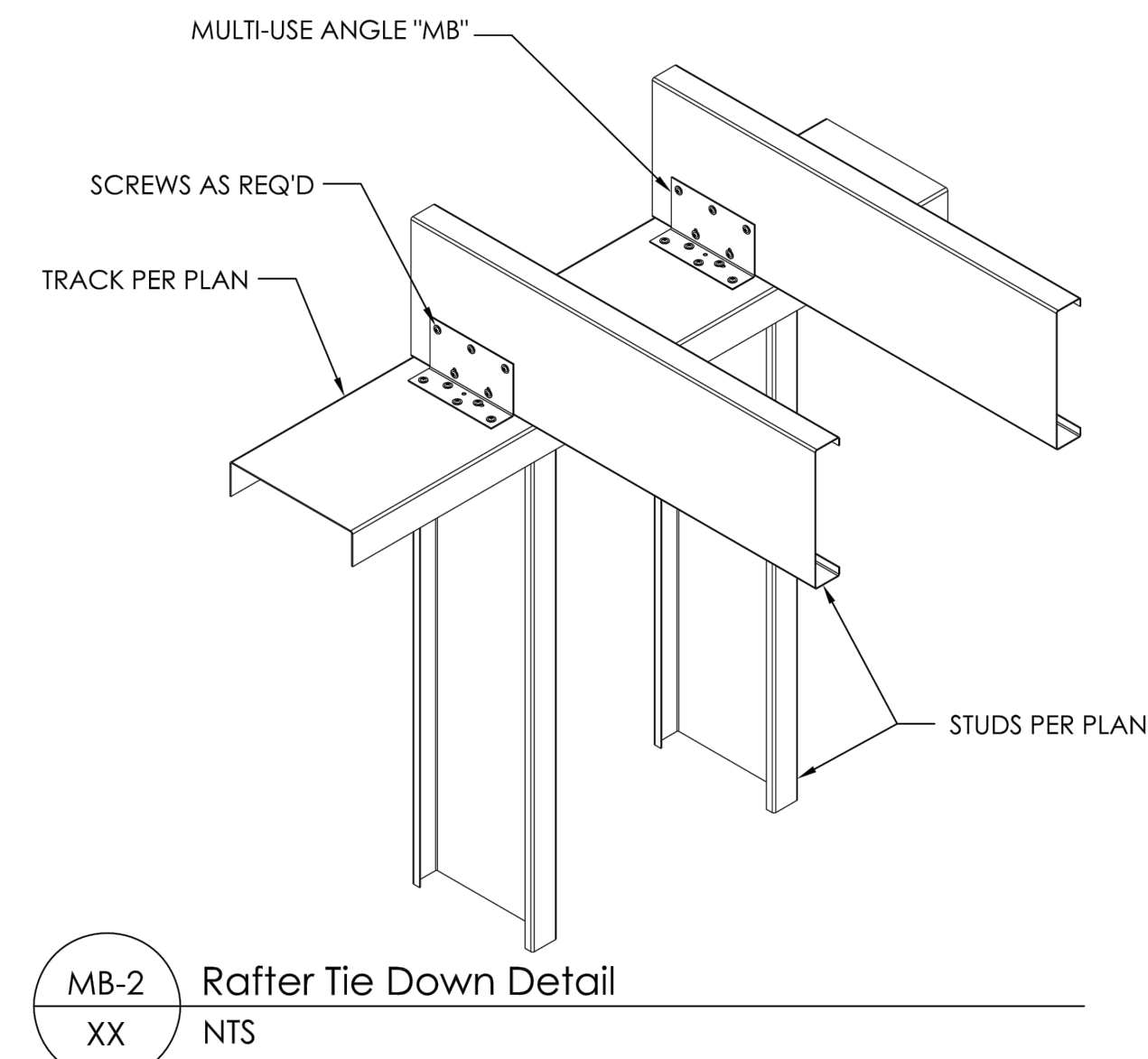
**10** **DETAIL** TYP. MECH. UNIT/OPNG. FRAMING LESS THAN 500# N.T.S.



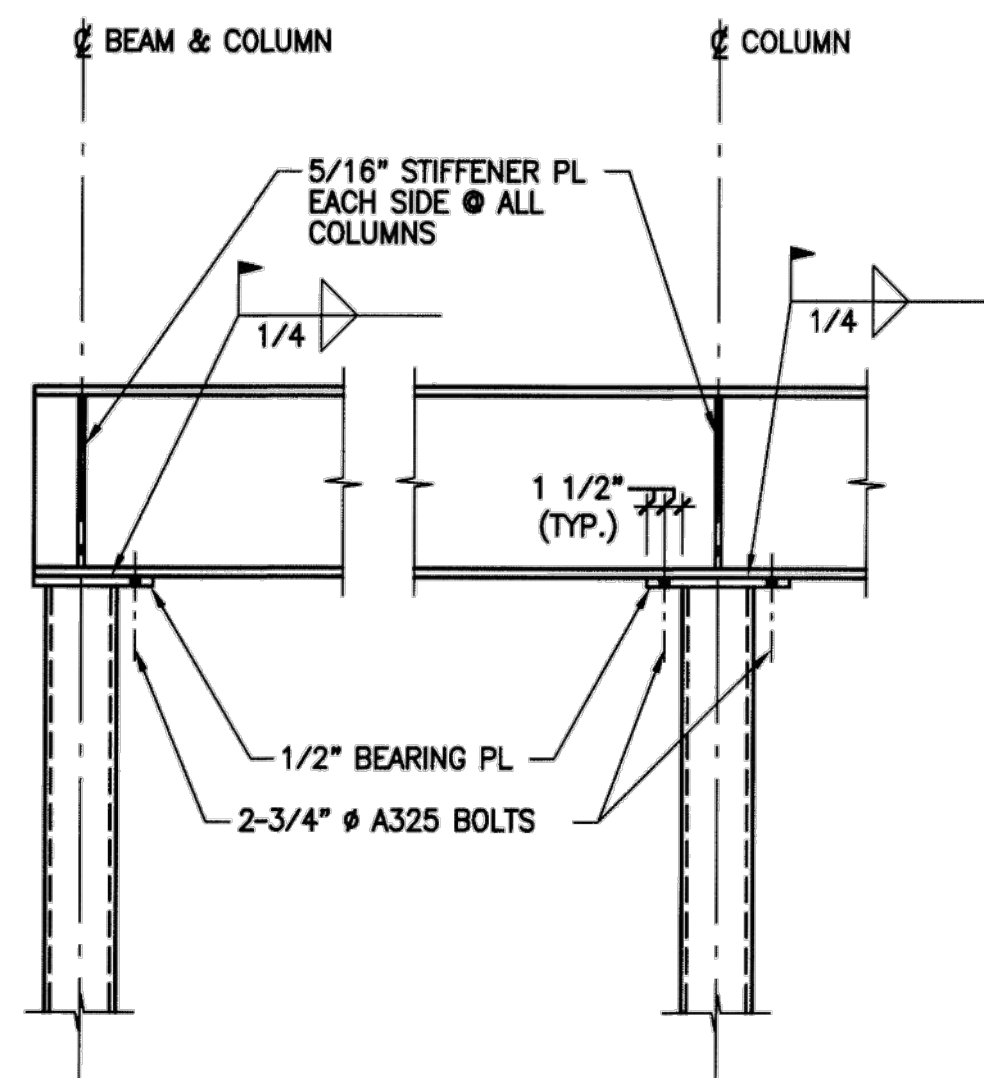
**7** **DETAIL** TYP. MECH. UNIT/OPNG. FRAMING GREATER THAN 500# N.T.S.



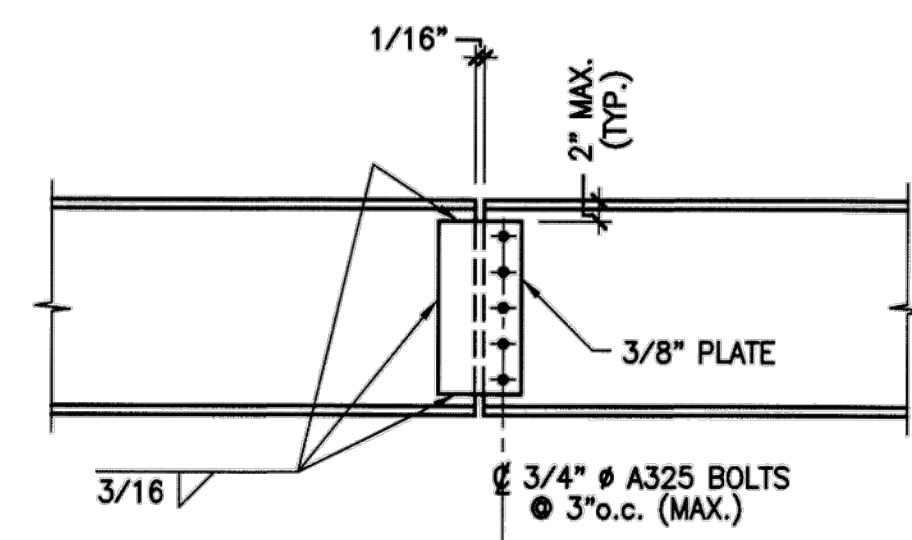
**4** **SECTION** SCALE: 3/4" = 1'-0"



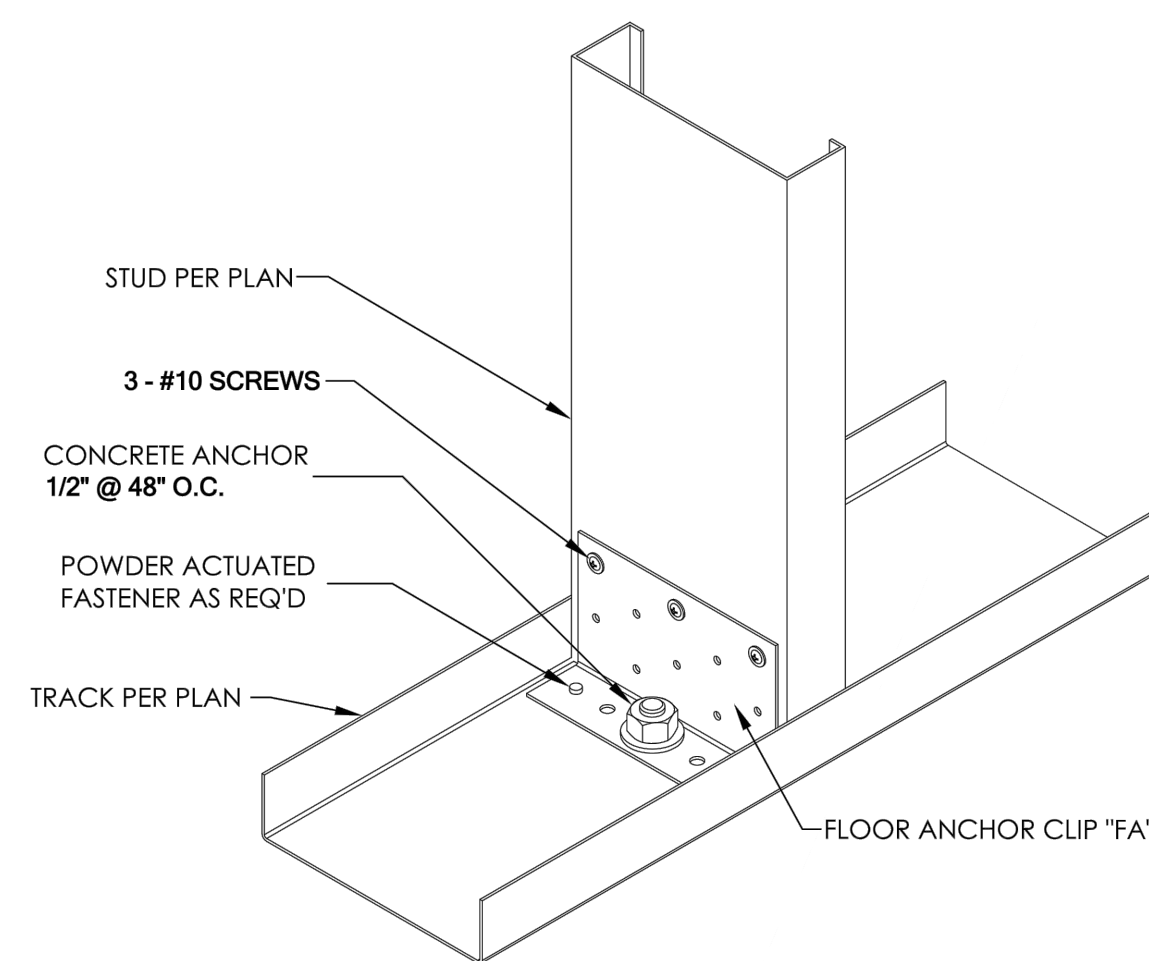
**MB-2** Rafter Tie Down Detail  
**XX** N.T.S.



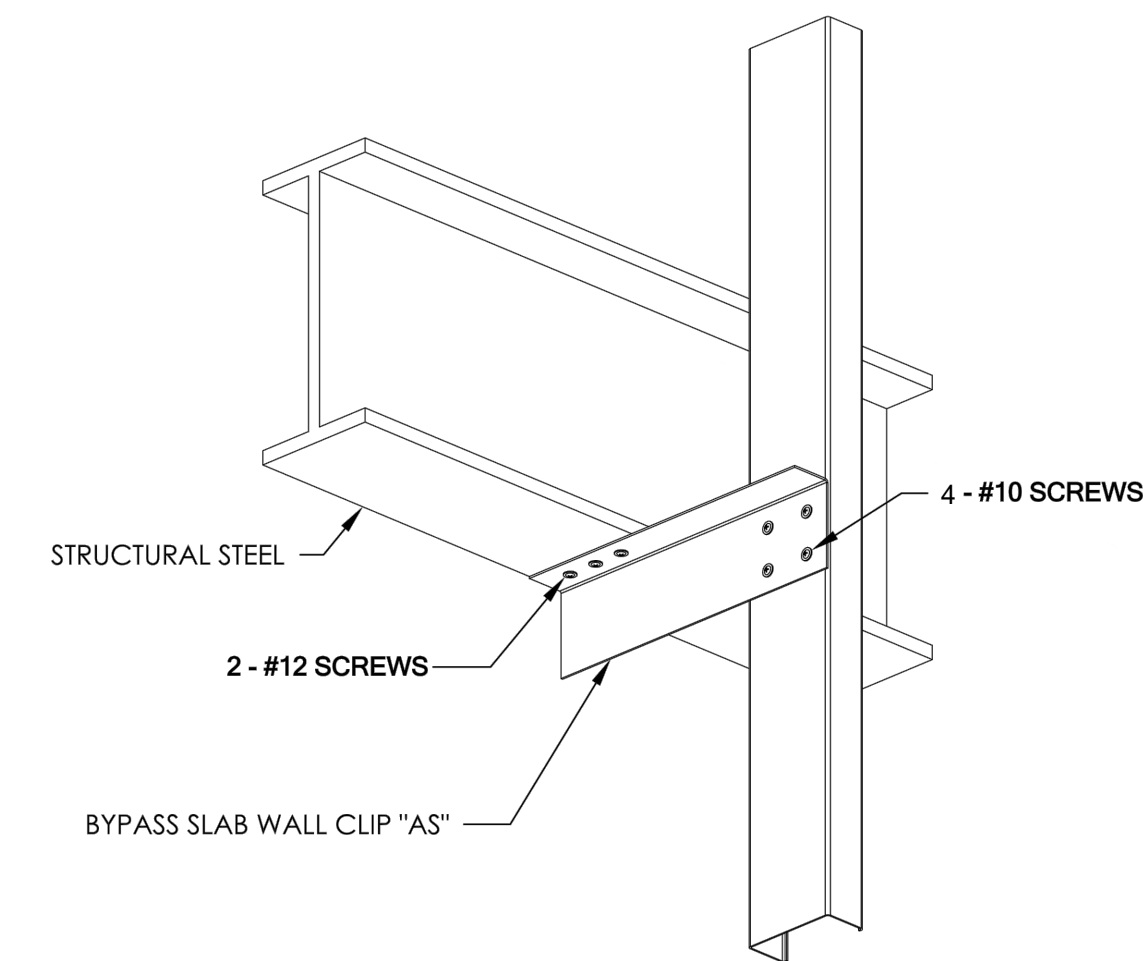
**11** **DETAIL** TYP. BEAM TO COL. CONN. N.T.S.



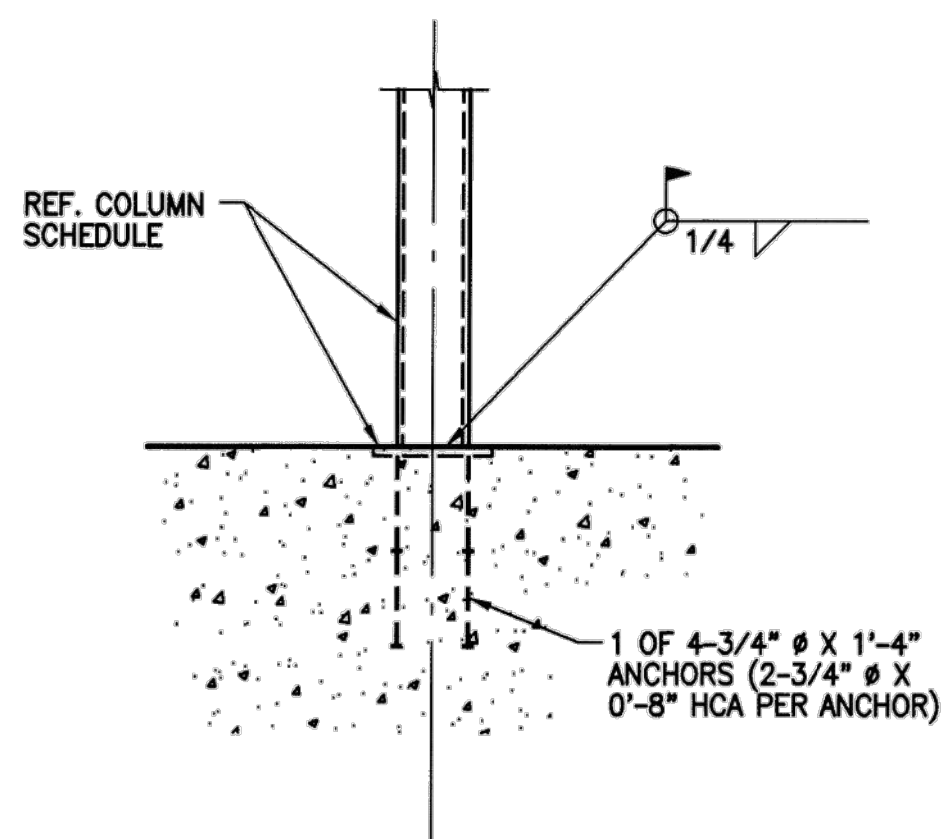
**8** **DETAIL** TYPICAL BEAM SPLICE N.T.S.



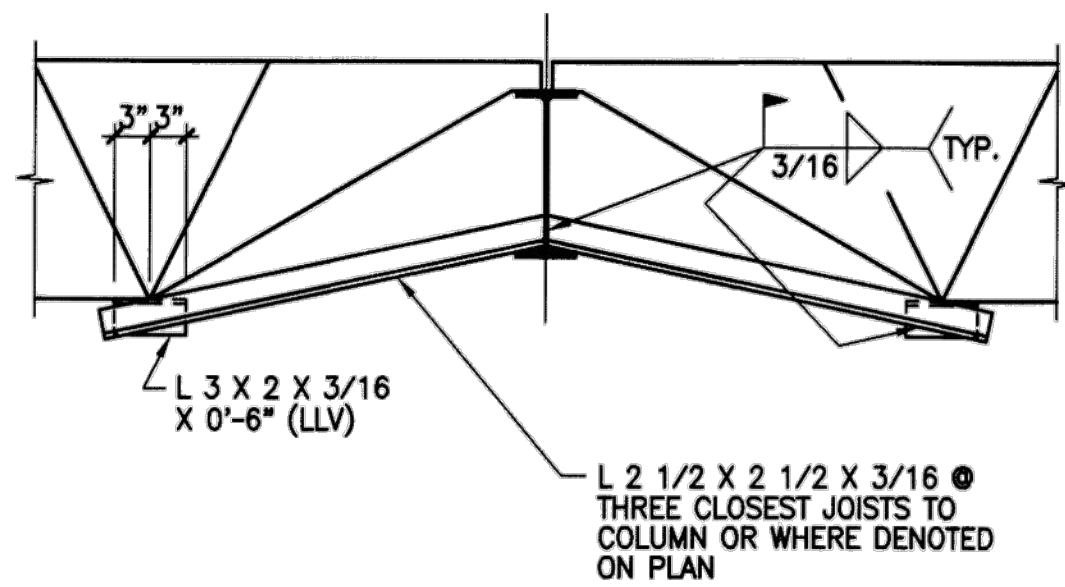
**FA-1** Stud to Floor Anchoring Detail  
**XX** N.T.S.



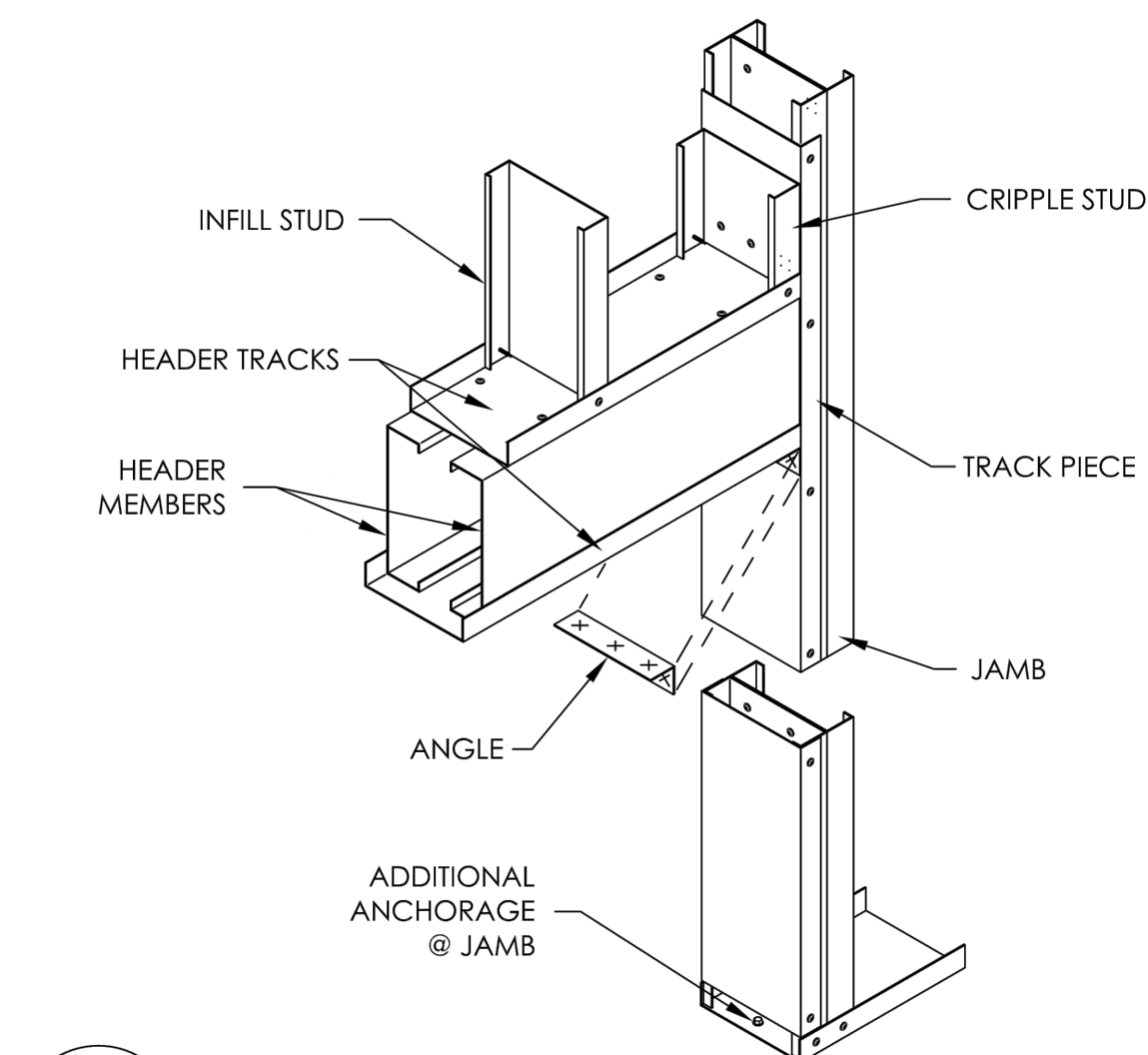
**AS-1** Bypass Slab Wall Strut Detail  
**XX** N.T.S.



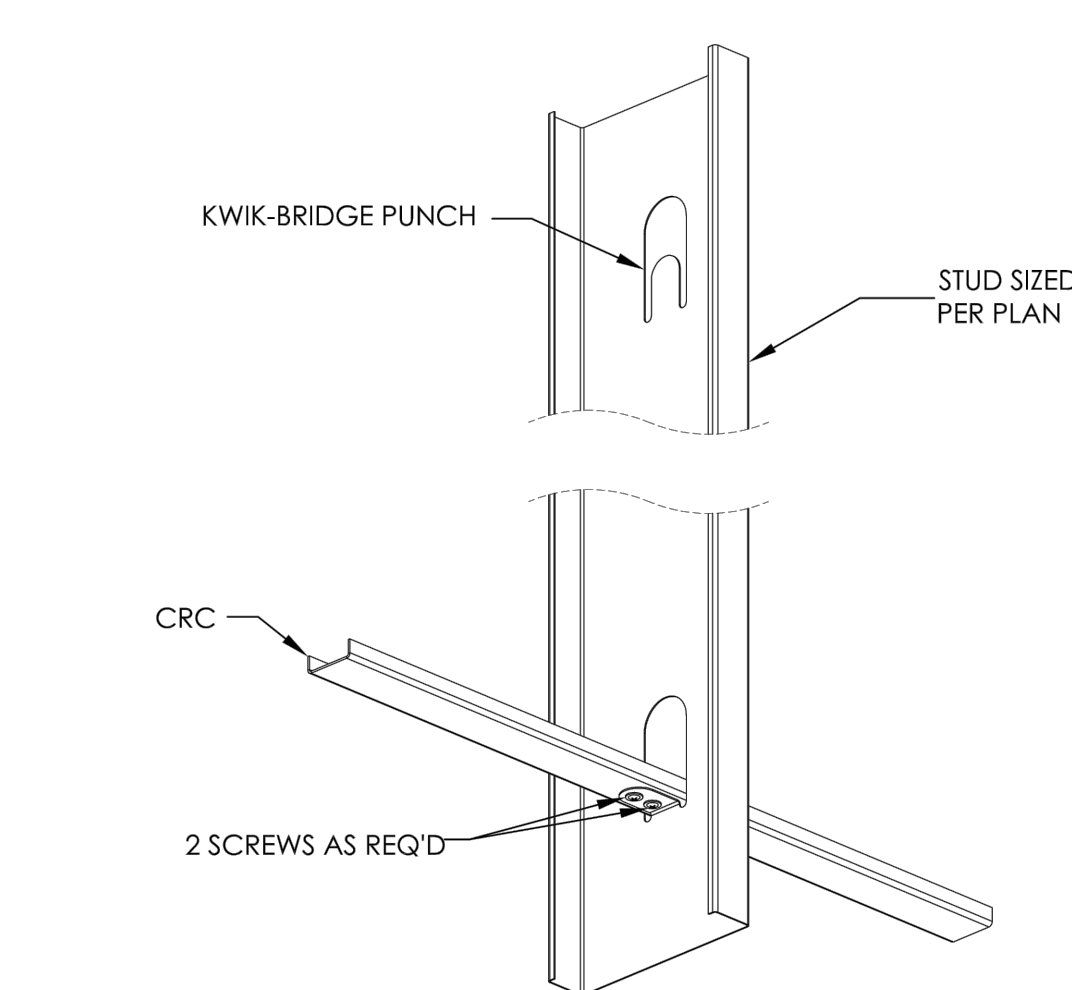
**12** **DETAIL** TYPICAL COLUMN BASE CONN. N.T.S.



**9** **DETAIL** TYPICAL BOTT. CHORD CONN. N.T.S.



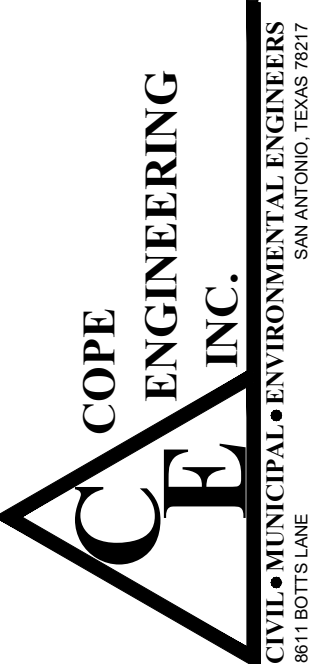
**DR-6** Door Load Bearing Boxed Header Back to Back Jamb  
**XX** N.T.S.



**KBS-1** Kwik-Bridge Stud Detail  
**XX** N.T.S.

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Pocahontas, TX 78865  
Phone: 817-251-1089  
Toll Free: 1-800-895-1089



No.	PERMIT SET DESCRIPTION	DATE
1	PERMIT SET	06/05/23



**KHIT CHIROPRACTIC WELLNESS**

KYLE, TX  
2022-008  
STRUCTURAL SECTIONS & DETAILS

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In accordance with the instructions to Bidders, bidders are encouraged to visit the site and acquaint themselves with all existing conditions prior to bidding. Bidders may, at their own expense, perform their own subsurface investigations; however, all such investigations must be performed under time schedules and arrangements approved in advance by the Architect.

TESTING AND INSPECTIONS

Refer to Section 02224, Structural Earthwork for Building Foundations

END OF SECTION 02010

SECTION 02224 - STRUCTURAL EARTHWORK FOR BUILDING FOUNDATIONS

1.1 RELATED DOCUMENTS

Drawings and general provisions of the contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

1.2 DESCRIPTION OF WORK

A. EXTENT

Extent of earthwork in this section is limited to the requirements of construction of structural building foundation.

B. DEFINITIONS

- 1. "Excavation" consists of removal of material encountered to subgrade elevations indicated and subsequent disposal of material removed.
2. "Building" shall include any attached walkway or other foundations shown on the structural foundation drawings.

1.3 QUALITY ASSURANCE

Special inspections as required and specified by IBC Chapter 17 will be conducted at Owner's expense. A commercial construction testing laboratory will perform soil testing and inspection service for quality control during earthwork operations. The designated laboratory shall be designated by the RDPIRC.

1.4 SUBMITTALS

TEST REPORTS-EXCAVATING

Submit following reports directly to Architect/Engineer from the testing services, with copy to Contractor:

- (a) Verification of specified depth of excavation.
(b) Field density test reports, as follows:
One optimum moisture-maximum density curve for each type of soil encountered.

PART 2 - PRODUCTS

2.1 SELECT STRUCTURAL FILL

PART 3 - EXECUTION

3.1 EXCAVATION

A. EXCAVATION IS UNCLASSIFIED

Excavation is unclassified, and includes excavation to subgrade elevations indicated, regardless of character of materials and obstructions encountered. Refer to plan notes.

B. UNAUTHORIZED EXCAVATION

- 1. Unauthorized excavation consists of removal of materials beyond indicated subgrade elevations or dimensions without specific direction of Architect/Engineer. Unauthorized excavation, as well as remedial work directed by Architect, shall be at Contractor's expense.
2. Perform all earthwork described above before trenching for grade beams or mechanical lines.

C. EXCAVATION

3.2 FIELD QUALITY CONTROL

- A. Allow testing service to inspect and approve subgrades and fill layers before further construction work is performed.
B. Perform field density tests in accordance with ASTM D-698.

3.3 TESTING OF SUBGRADE AND COMPACTED FILL

If, in opinion of the testing laboratory and/or the Architect/Engineer, based on testing service reports and inspection, subgrade or fills which have been placed are below specified density, the contractor shall perform additional compaction and testing at no additional expense.

3.4 MAINTENANCE

- A. Protect newly graded areas from traffic and erosion.
B. Keep area free of trash and debris.

3.5 RECONDITIONING COMPACTED AREAS

Where completed compacted areas are disturbed by subsequent construction operations or adverse weather, scarify the surface, re-shape, and compact to required density prior to further construction.

3.6 DISPOSAL OF EXCESS AND WASTE MATERIALS

Remove waste materials, including unacceptable excavated material, trash and debris, and dispose of it off Owner's property.

END OF SECTION 02224

PERSONNEL TESTING LABORATORY

- 1. The Testing Laboratory shall assign qualified personnel to the project. Services and tests requiring engineering duties shall be performed by a licensed Professional Engineer or personnel under his direct supervision.
2. Submit the name of the licensed Professional Engineer who has responsible charge of the firm's services on the project along with his resume that illustrates experience in performing and managing quality assurance activities for the scope of work involved.
3. Services and tests that will be provided by non-engineering personnel shall be performed by personnel that have appropriate certification from either The National Institute for the Certifications of Engineering Technicians (NICET) for concrete, masonry and steel testing and monitoring, American Concrete Institute (ACI) for concrete and masonry testing and monitoring or American Welding Society (AWS) for steel testing and monitoring.
4. Submit certificates or written evidence of their qualifications to the Architect/Engineer prior to initiating work.

RESPONSIBILITY OF TESTING LABORATORY:

In addition to the responsibilities and duties according to ASTM 329, the Testing Laboratory shall:

- 1. Attend preconstruction meeting.
2. Promptly and verbally notify by phone call the Structural Engineer immediately from the jobsite when test results (not limited to irregularities or deficiencies) are known and prior to delaying the project.
3. Promptly notify the Architect/Engineer responsible for the design of materials not meeting specified requirements so that the Work can be rejected by the party with authority to reject the Work.
4. Promptly submit written report of each test and inspection with a copy directly to the Structural Engineer.
5. Recommend and perform additional inspections, sampling, and testing of materials and methods of construction to the Architect/Engineer in writing if specified requirements by Architect/Engineer appear insufficient, or ambiguous.
6. Submit results of Special Inspections as defined in IBC 2018, section 1704 to the Registered Design Professional in Responsible Charge (RDPIRC), the Architect, who will compile a final report to the City of Converse building official documenting all of the required special inspections. Refer to sheet 6.1, "2018 IBC Chapter 17 Special Inspections" for required categories of inspection.
7. Perform additional tests as required by Architect/Engineer or the Owner.

LIMITATIONS OF AUTHORITY OF TESTING LABORATORY:

Laboratory is not authorized to:

- 1. Release, revoke, alter or enlarge on requirements of Contract Documents;
2. Approve or accept any portion of the Work;
3. Perform any duties of the Contractor.

RESPONSIBILITY OF THE CONTRACTOR:

- 1. Cooperate with testing personnel, provide access to Work and to manufacturer's operations and provide adequate facilities as required for storage and curing of test samples.
2. Secure and/or deliver to the testing agency adequate quantities of representational samples of materials proposed to be used and which require testing.
3. Provide copies of product's test reports as required.
4. Furnish one complete set of project plans and specifications to the Testing Laboratory to facilitate inspections and testing and to provide direction on the storage and curing of test samples.
5. Assist testing agency in obtaining and handling samples at the Project site or at the source of the product to be tested.
6. Notify testing agency sufficiently in advance of operations to allow for laboratory assignment of personnel and scheduling of tests.

SPECIFIC TESTS, INSPECTIONS AND METHODS REQUIRED:

Refer to IBC 2018, SPECIAL INSPECTIONS, Chapter 17 and notes on sheet 6.1 of drawings.

END OF SECTION 01410

SECTION 02010 - SUBSURFACE AND SOIL CONDITIONS

PART 1 - GENERAL

GENERAL

The Owner has employed an independent Geotechnical Consultant and Testing Laboratory to perform a soil and foundation investigation for the site of this Project. The report of their findings may be examined at the offices of the Architect.

USE OF DATA

The information and recommendations contained in the soils report were obtained by the Owner only for the use of the Architect and the Structural Engineer in the design and preparation of the Contract Documents for this Project.

The soils report IS NOT a part of the Contract Documents. The report is available for examination by bidders, but is not a warranty of subsurface conditions at the site.

"Return One Corrected Copy For File" informs the Architect that the submittal may be approved as per AIA Document 201, section 4.2.7, but a corrected copy showing that corrections have been acknowledged must be returned for the structural engineer's file.

B. SHOP DRAWINGS WITH SPECIALTY ENGINEER'S SEAL AND SIGNATURE

Certain shop drawings may be identified in specific sections of the specifications pertaining to pre-engineered structural elements specified by the structural engineer-of-record and designed by specialty engineers. The structural engineer shall verify that submittals have received prior approvals as required by the contract documents. Submittals shall bear the signature and professional seal of the specialty engineer responsible for the design as required by the contract documents. The structural engineer shall review the submittal for type, position, and connection to other elements within the primary structural system, and for criteria and loads used for their design. Action on these submittals will be the same as for other shop drawings.

3.4 SITE VISITS

The structural engineer-of-record ("SER") will make site visits at intervals appropriate to the stage of construction and as defined by the contract to visually observe the quality and the progress of the construction work relative to the primary structural system. The general contractor is responsible to notify the SER when structural elements are ready for review and prior to their being covered up. Failure to do so may result in key observations not being made, preventing the engineer from recommending acceptance of the work. A written report will be made of each visit listing discrepancies, if any, and describing what was observed. One copy will be given to contractor's representative at the jobsite, and one copy will be mailed to the Architect. If a follow-up visit is necessary it will be so noted on the report.

The SER shall not have control over or charge of and shall not be responsible for construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the Work for This Part of the Project, since these are solely the Contractor's responsibility under the Contract for Construction. The SER shall not be responsible for the Contractor's or a Subcontractor's schedule or failure to carry out the Work in accordance with the Contract Documents. The SER shall not have control over or charge of acts or omissions of the Contractor, Subcontractors, their agents or employees or other persons performing portions of the Work.

END OF SECTION 01341

SECTION 01410 - STRUCTURAL QUALITY CONTROL AND TESTING

PART 1 - GENERAL

SCOPE

Inspection and testing of materials, composites and construction practices shall be conducted to determine whether or not their characteristics and qualities as used in the construction comply with the construction documents. Inspection and testing shall be according to American Society for Testing Materials (ASTM) Standard E 329, latest edition requirements. The Owner or the Registered Design Professional in Responsible Charge (RDPIRC) acting as the Owner's agent shall employ one or more special inspectors during construction on the types of work listed under section 1704.

RELATED WORK SPECIFIED ELSEWHERE

Conditions of the Contract: Inspections and testing required by laws, ordinances, rules, regulations, order of approvals of public authorities.

Refer to IBC 2018, SPECIAL INSPECTIONS, Chapter 17. Requirements for SPECIAL INSPECTION govern. Refer to notes on plans for further instructions.

Each specification section listed, laboratory tests required, and standards for testing:

Table with 2 columns: Section Number and Description. Includes Section 01341: Structural Engineer: Shop Drawings/Field Visits, Section 02224: Structural Earthwork for building Foundations, Section 03200: Concrete Reinforcement, Section 03300: Cast-in-Place Concrete, Section 05100: Structural Steel.

QUALITY ASSURANCE

In addition to the requirements according to ASTM E329, the Testing Laboratory and its personnel shall meet the following qualifications:

TESTING LABORATORY QUALIFICATIONS:

- 1. The Testing Laboratory office performing the service(s) shall subscribe (or show that application has been made and is scheduled for an audit of the tests that will be required for the project) to an independent audit by a national agency such as American Association of State Highway and Transportation Officials (AASHTO) and/or American Association for Laboratory Accreditation (AALA) that routinely monitors, assesses, and certifies the professional and technical activities of testing laboratories. Provide the Architect/Engineer a copy of the Laboratory's certification for the specific services and tests certified to perform under its audit prior to the Laboratory initiating work on the project.
2. The Testing Laboratory shall show evidence that it participates in reference laboratory testing programs for the testing services that it is offering for the project. The reference programs may include national, state or regional reference laboratories but shall extend beyond the limits of in-house or inter-office testing within the same company. Acceptable reference laboratories include AASHTO Materials Reference Laboratory (AMRL), Cement and Concrete Reference Laboratory (CCRL) or other organizations with an established charter and being recognized in the industry as an institution that promotes education and improved materials science.

SECTION 01341 - STRUCTURAL ENGINEER: SHOP DRAWINGS/FIELD VISITS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

Drawings and general provisions of the Contract apply to work of this section. Refer to Architect for items not covered herein.

1.2 SCOPE

This section defines and clarifies specific items of the Contract that are peculiar to the structural engineer's responsibilities. Refer to Architect of this specification for specifics on shop drawing, product data, and samples submitted.

PART 2 - GENERAL DEFINITIONS

2.1 STRUCTURAL ENGINEER OF RECORD

The engineer responsible for the design of the primary structural system and whose seal/signature appears on the contract structural drawings. Responsibility for any secondary structural and non-structural systems not shown on the structural drawings rests with the prime professional, the architect.

2.2 SPECIALTY ENGINEER

The engineer who is lawfully eligible to seal plans and designs for pre-engineered elements on systems which become part of the overall building.

2.3 SUBMITTALS

Items identified in the contract documents to be submitted by the contractor. Refer to individual sections of the specifications for specific items to be submitted.

2.4 FIELD OBSERVATIONS

Visits to the jobsite by the structural engineer-of-record or his authorized representative to ascertain whether the work is generally in accordance with the structural contract documents. These observations are not exhaustive nor continuous.

PART 3 - PROCEDURAL REQUIREMENTS

3.1 SHOP DRAWINGS

Refer to Architect for specific requirements for number of copies to be submitted, time for review, etc. All submittals must come by way of the general contractor through the architect. Certain submittals, identified in specific sections of the specifications, generally regarding pre-engineered elements, will require a specialty engineer's seal and signature.

3.2 FIELD OBSERVATIONS

Structural engineer shall be notified at least 24 hours in advance of any concrete pour or other action that will cover up structural elements that have not been reviewed by the structural engineer. Refer to individual sections for specific stages of construction which require observation.

3.3 ENGINEER'S ACTIONS

A. SHOP DRAWINGS

As per article 4.2.7 of the General Conditions, the structural engineer will review shop drawings for the limited purpose of checking for conformance with information given and the design concept expressed in the contract documents.

The structural engineer-of-record shall review the submittals and return them to the architect with one of the following statements checked off on the stamp:

- NO EXCEPTION TAKEN
MAKE CORRECTIONS NOTED
REVISE AND RESUBMIT
RETURN ONE CORRECTED COPY FOR FILE

Review is only for general conformance with design concept of project and general compliance with the Contract Documents. Contractor is responsible for confirming and correlating dimensions at job site: for information which pertains to fabrication processes or construction techniques; and for coordination of work of all trades. Review of shop drawings shall not relieve Contractor, any Subcontractor, and/or Material Supplier of responsibility for deviation from requirements of Contract Documents nor for errors or omissions in shop drawings.

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"NO exceptions Taken" informs the Architect that the structural engineer takes no exception to the submittal being approved as per and in accordance with AIA Document 201, section 4.2.7.

"Make Corrections Noted" informs the Architect that the structural engineer has made corrections on the submittals but otherwise takes no exception to the submittal being approved as per and in accordance with AIA Document 201, section 4.2.7.

"Revise and Resubmit" indicates important items must be corrected and resubmitted. Marks on the submittal may not necessarily cover all of the defects of the submittal. This action constitutes the structural engineer's concern and his recommendation to the Architect that the submittal be reviewed and resubmitted as per and in accordance with AIA Document 201, section 4.2.7.

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5-24-2023

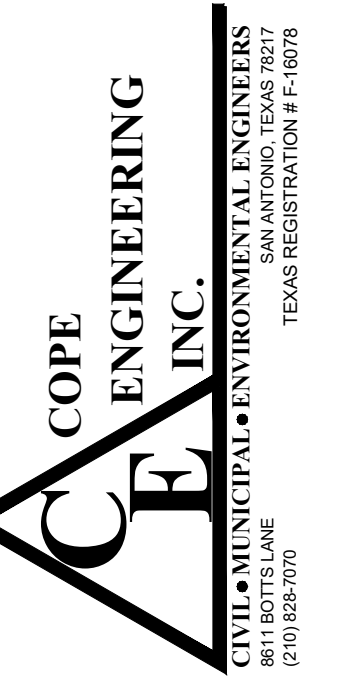


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2022-008 SPECIFICATIONS 1 OF 5

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**SECTION 03200 - CONCRETE REINFORCEMENT**

**PART 1 - GENERAL**

**1.1 SCOPE**  
Furnish and install all reinforcement and associated items required and/or indicated on the Drawings for all cast-in-place concrete.

**1.2 QUALITY ASSURANCE**  
**A. QUALIFICATIONS OF WORKMEN**  
Provide at least one person who shall be present at all times during execution of this portion of the work and who shall be thoroughly familiar with the type of materials being installed and the best methods for their installation and who shall direct all work performed under this section.

**B. CODES AND STANDARDS**  
1. In addition to complying with all pertinent codes and regulations, concrete reinforcement, unless otherwise noted, shall meet requirements of ACI 301 "Specifications for Structural Concrete for Buildings" and/or ACI 318 "Building Code Requirements for Reinforced Concrete", whichever is more stringent.  
2. Where provisions of pertinent codes and standards conflict with this Specification, the more stringent provisions shall govern.  
3. Refer to IBC 2018, Chapter 17, Special Inspections.

**1.3 SUBMITTALS**  
**A. SHOP DRAWINGS**  
1. The Contractor shall obtain completely detailed shop drawings showing placement plans, bar bending lists, etc. Include the specific location and size of all accessories, chairs and bar supports. The Contractor shall carefully check these drawings, then submit them to the Architect/Engineer. The Architect/Engineer may conduct limited spot checks aimed solely at determining general comprehension of the design intent, then return them to the Contractor. The Contractor shall then carefully recheck the shop drawings and approve them prior to fabrication.  
2. The Engineer's spot check shall not relieve the Contractor from correcting, at his own expense, any items that may thereafter be found not to comply with the plans and specifications.

**B. CERTIFICATES**  
When requested by the Engineer, supplier of reinforcing steel and other embedded materials shall furnish certified evidence that all materials delivered to the project meet the requirements of this Section of the Specification.

**1.4 PRODUCT HANDLING**  
**A. PROTECTION**  
1. Use all means necessary to protect concrete reinforcement before, during, and after installation and to protect the installed work and materials of all other trades.  
2. Store in a manner to prevent excessive rusting and fouling with dirt, grease and other bond-breaking coatings.  
3. Use all necessary precautions to maintain identification after the bundles are broken.  
4. Concrete reinforcement included in other sections of these specifications that is not specifically described shall meet the requirements of this section.  
5. Mechanical and electrical equipment, ducts and conduit: Provide adequate reinforcing as approved by Engineer for all required mechanical equipment and all required openings through beams.

**PART 2 - PRODUCTS**  
**2.1 MATERIALS**  
**A. ALL REINFORCING**  
Unless noted otherwise on plans, shall comply with ASTM A-615, Grade 60, except beam stirrups may be Grade 40.  
**B. WIRE MESH**  
Shall comply with ASTM A-185, flat sheets only.  
**C. METAL ACCESSORIES**  
1. According to latest revision of "Manual of Standard Practice for Detailing Reinforced Concrete Structures" (ACI-SP66).  
2. Accessories fabricated completely from plastic will not be permitted.  
3. In the event steel other than of domestic manufacture is contemplated to be used, furnish to Engineer laboratory tests made by a U.S. Testing Laboratory approved by the Engineer certifying that said steel meets all requirements.

**PART 3 - EXECUTION**  
**3.1 FABRICATION**  
**A.** Reinforcing shall be fabricated in accordance with "Manual of Standard Building Code Requirements for Reinforced Concrete" (ACI 318), latest edition. The Contractor shall be responsible for obtaining properly fabricated reinforcing and placing it properly.  
**B.** Reinforcing steel, at the time concrete is placed, shall be free from rust, scale, dried concrete, or other coatings that will destroy or reduce bond.  
**C.** Reinforcing steel shall be accurately bent and placed in position, securely tied or supported to prevent movement during placing of concrete. Field bends will not be permitted without prior approval from Engineer. Spacer bars, supports and accessories are not scheduled but are to be furnished and placed as described under MATERIALS paragraph in this Section. Raising of reinforcement (including welded wire fabric) during the pour will not be permitted.

**3.2 BEAM INTERSECTIONS**  
Unless shown otherwise on plans, at corners, angle bends and at junction with other beams, provide four #7x8"-O" "corner bars" (3 ft. each leg), 2 top and 2 bottom. For deep beams with scheduled intermediate bars, provide matching 80 diameter "corner bars" of same size. At "T" intersection, place all "corner bars" so that one leg is in outside face of outside beam.  
**END OF SECTION 03200**

3. The Contractor shall provide complete inspection facilities including a 100 watt lamp and electrical extension cord of sufficient length to allow lowering to bottom of each footing hole.  
4. Inspection services shall include pre-pour services as defined in 3.1 D and E as well as testing of concrete as per Section 03300. Discrepancies should be reported to structural engineer prior to pour.

**C. BEARING SURFACE**  
The footing bearing surface at the bottom of bell shall be undisturbed virgin earth free of all loose soil cuttings, compacted reamed earth, or mud. Compliance with this provision must be visually, or otherwise verifiable from the surface. The contractor shall employ whatever methods, procedures or equipment is necessary to perform these requirements to the satisfaction of the Geotechnical Engineer.

**D. CLEAN-UP**  
Per GENERAL CONDITIONS.  
**END OF SECTION 02362**

**SECTION 03100 - CONCRETE FORMWORK**

**PART 1 - GENERAL**

**1.1 SCOPE**  
Form all cast-in-place concrete indicated on the Drawings and subsequently remove all such forms.

**1.2 QUALITY ASSURANCE**  
**A. QUALIFICATION OF WORKMEN**  
Provide at least one person who shall be present at all times during the execution of this portion of the Work, who shall be thoroughly familiar with the type of materials being installed, the referenced standards, and the requirements of this Work, and who shall direct all work performed under this Section.

**B. CODES AND STANDARDS**  
1. In addition to complying with all pertinent codes and regulations, comply with ACI 301 "Specifications for Structural Concrete for Buildings" and for ACI 318 "Building Code Requirements for Reinforced Concrete", whichever is more stringent.  
2. Where provisions of pertinent codes and standards conflict with the requirements of this Section of these Specifications, the more stringent provisions shall govern.

**1.3 PRODUCT HANDLING**  
**A. PROTECTION**  
Use all means necessary to protect formwork materials before, during, and after installation and to protect work and materials of all other trades.  
**B. REPLACEMENTS**  
In the event of damage, immediately make all repairs to the approval of the Engineer and Architect and at no additional cost to the Owner.

**PART 2 - PRODUCTS**

**2.1 FORM MATERIALS**  
**A. WOOD FORMS**  
Capable of meeting all requirements described in FORM CONSTRUCTION paragraph in this Section.  
**B. UNEXPOSED SURFACES**  
#2 common or better, plywood.  
**C. EXPOSED SURFACES**  
New or like-new moisture resistant fir form plywood. Surface must be smooth, completely free from scratches, indentations, unsound surface knots, ripples, etching, prominent grain, depressions, warps or breaks. "Exposed surfaces" include concrete surfaces which are to be painted or dash coated.

**PART 3 - EXECUTION**

**3.1 FORM CONSTRUCTION**  
All aspects of formwork, including the design, construction, upkeep, maintenance and removal, is the Contractor's responsibility. The Contractor shall provide formwork that is safe and properly designed for the specific method of concrete placement, type of vibration and construction loads which he will employ.

**3.2 CONDUIT IN SLABS**  
Individual conduits in slabs shall not exceed 1" diameter. Groups of conduits or conduits larger than 1" diameter will require slab to be thickened to maintain full scheduled thickness.

**3.3 SLAB AND BEAMS ON FILL**  
**A.** Form outside face of all perimeter beams, slabs, turndowns, and any other concrete exposed to view with wood forming to a depth of 12" below finished grade unless shown otherwise on plans, and remove all such formwork prior to backfilling. Form masonry lugs, floor drops and recesses as indicated on plans.  
**B.** Vapor barrier shall extend half way down sides of beams but not under beam soffits; prevent "bunching up" around reinforcing and at beam intersections by neatly folding and tacking against beam sides.

**3.4 CONSTRUCTION JOINTS**  
Form keyways as required in Cast-In-Place Concrete for transfer of shear and other forces through the joint.

**3.5 OILING OF FORMS**  
**A.** Lightly coat with nonstaining form oil for exposed surfaces. Before placing reinforcing, remove surplus oil.  
**B.** Forms for unexposed surfaces may be thoroughly wetted with water in lieu of oiling immediately before placing concrete.

**3.6 REMOVAL OF FORMS**  
Side forms of beams, may be removed after cumulatively curing at not less than 50 degrees F (10 degrees C) for 24 hours after placing concrete, provided concrete is sufficiently hard to not be damaged by form removal operations, and provided curing and protection operations are maintained.  
**END OF SECTION 03100**

**E. FOOTING LOG**  
The Geotechnical Engineer shall keep accurate log of all footing depths. Cost adjustment will be made on difference in actual depth vs. basic bid depth with each footing considered individually. Unit prices for greater or lesser depth shall be as stated in Contractor's proposal.

**3.2 EXCAVATION**  
**A. EXCAVATE ACCURATELY**  
Excavate accurately on designated centers. Drill plumb within 2" variation for every ten feet of depth. Transfer center of shaft at ground surface accurately to bottom of footing with plumb-bob and mark location.

**B. SHAFTS**  
Drill accurately to scheduled diameter. "Mushrooming" or enlargement of shaft near the surface due to "in-out" auger action shall be carefully monitored and held to a minimum. Appreciable enlargement of shaft will necessitate the installation of round fiberform for the entire depth of such enlargement and the cost of material and labor for this operation shall be borne by the Contractor. Further, at the time such enlargement is first noticed, corrective measures shall be taken to determine the reason, and no additional footings may be drilled until it is clearly established that the cause is known and will be corrected on all remaining footings. Where the nature of soil strata is such as to cause excessive fall-out or pockets in the shaft wall, the Engineer may direct the Contractor to install thin wall fiber forms in those areas and the expense shall be borne by the Owner.

**C. WATER AT BEARING LEVEL**  
Provide pumps as required to remove bulk of the water, then hand bail to permit placement of concrete in the dry.

**D. FORMS**  
Form upper part of shafts with thin wall fiber forms, Sonotube or equal, to depths below and above working grade as indicated on plans. Refer to "Excavation" on page 2 for additional forming requirements.

**E. FOOTING CONSTRUCTION JOINT**  
Where working grade is 24" or more below footing cutoff, a construction joint shall be made at or near working grade. Continue upper part of shaft with scheduled shaft diameter and reinforcement; form with fiberform.

**F. CASING**  
If water-bearing stratum is encountered, set steel casing in shaft to seal off water so that base may be excavated, reinforcing placed, and concrete poured entirely in the dry. Casing may be pulled after placing concrete, but only in manner and sequence approved by Engineer. Allowance for casing is as stated in Contractor's proposal.

**G. PLACING CONCRETE**  
1. Placing of concrete shall not begin until the excavation and reinforcing placement has been completed, inspected and approved. Concrete shall be placed within the shaft excavation as soon as practical after drilling and cleaning out has been completed. In no case shall the time lapse exceed eight hours before placement of concrete. No pier shall be started that cannot be completed before the end of that work day. No holes shall be left open overnight.  
2. Provide adequate chutes, tremies and other means of conveying concrete into place. Use chutes, tremies or bottom discharge hoppers for placing concrete.  
3. Place concrete immediately after mixing, and in no case more than 60 minutes after water has been added. Continue depositing of concrete until the completion of the pier to the top of shaft and in no case suspend the placement of concrete, once started, for more than 30 minutes.  
4. The top three feet of the concrete in the shaft shall be thoroughly vibrated in 12" layers and excess water removed.

**3.3 REINFORCEMENT PLACEMENT**

**A. LENGTH OF FOOTING REINFORCEMENT**  
Extend from bottom of footing to top of plinth or to beams or wall soffit. Never raise above bottom of footing. Forty diameter splices required where steel has been cut too short. Secure Engineer's approval prior to making any splice. Provide side and bottom spacer blocks to accurately maintain proper concrete cover as shown on drawings. The contractor shall determine proper depth to bearing stratum by selectively constructing a few representative footings before fabrication continues.

**B. INSPECTION AND APPROVAL**  
1. The Contractor shall provide the Architect/Engineer a schedule for pier drilling operations so the Engineer may monitor geotechnical engineer's procedures prior to drilling. It shall be the Contractor's responsibility to insure that the pier excavation has been inspected and approved by the Geotechnical Engineer prior to concreting.  
2. The Geotechnical Engineer shall determine when the footing excavation has reached the proper stratum and shall certify in writing that the bearing surface as constructed is capable of supporting the load specified in the Soils Report and/or shown on the footing schedule.

**SECTION 02362 - DRILLED FOOTINGS**

**PART 1 - GENERAL**

**1.1 SCOPE**  
The extent of drilled footings is shown on the Drawings, including locations, diameter of piers, top elevations, and details of construction.

**1.2 RELATED WORK SPECIFIED ELSEWHERE**  
**A. Subsurface Conditions** Section 02010  
**B. Concrete Formwork** Section 03100  
**C. Concrete Reinforcement** Section 03200  
**D. Cast-in-place Concrete** Section 03300  
**E. Special Inspections:** IBC Chapter 17 Section 01411

**1.3 QUALITY ASSURANCE**  
**A. SUPERVISION**  
The General Contractor shall supervise all footing operations and must be present on the job at all times when the foundation subcontractor is working. He shall assist in inspection of footings and measure footing depths in the presence of the Engineer.

**B. CODES AND STANDARDS**  
Perform drilled footing work in compliance with the applicable requirements of governing authorities having jurisdiction, including provisions for adequate protection to persons and property.

**1.4 SITE CONDITIONS**

**A. SUBSURFACE CONDITIONS**  
Are defined under Section 02010 of these Specifications. The data indicated therein is not intended as representations or warranties of the continuity of such conditions. It is expressly understood that the Owner will not be responsible for interpretations or conclusions drawn there from by the Contractor and are not guaranteed to represent all conditions that may be encountered.

**B. ADDITIONAL TEST BORING**  
Additional test borings and other exploratory operations may be made by the Contractor at no additional cost to the Owner, provided such operations are acceptable to the Architect/Engineer.

**1.5 BASE BID AND ADJUSTMENTS**

**A. CONTRACT PRICE**  
Contract price shall be based on base bid depth of piers shown on the Drawings. Do not include the cost of casings in the base price for piers. If casings are used, the Contract shall be adjusted based on the unit price.

**B. UNIT PRICE**  
Unit prices shall be as follows:  
Unit prices per linear foot for piers greater or lesser than base bid depth.  
Unit prices per linear foot for casing.  
Unit prices shall include all labor and materials including overhead and fees for drilled concrete piers. Adjustments to the Contract shall be based on total linear feet greater than or less than the sum of the base depths of each pier size. Additional penetration in the bearing stratum greater than the specified penetration shall not be included in determination of increases or decreases of pier lengths related to adjustments in the Contract unless specified by Geotechnical Engineer and approved by Structural Engineer at time of drilling in writing.

**PART 2 - PRODUCTS**

**2.1 PRODUCTS**  
**A.** Concrete: Specified under Section 03300.  
**B.** Concrete Formwork: Specified under Section 03100.  
**C.** Reinforcing Steel: Specified under Section 03200.  
**D.** Formwork: Thin wall fiber forms equal to Sonotube.

**PART 3 - EXECUTION**

**3.1 GENERAL**  
**A. DRILLING EQUIPMENT**  
The Contractor shall employ suitable drilling equipment to penetrate to the depth and stratum selected for bearing. This may necessitate the use of heavy crawler rig or power Kelly.  
**B. OPEN HOLES**  
Take every precaution to reduce the hazard of open holes. Cover during non-working hours with 2" plywood, 36" square. Mound 6" of dirt over plywood. Keep unauthorized persons, especially minors, at a safe distance during working hours.

**C. FOOTING DEPTHS**  
Footing depths shown on drawings are for estimating purposes only. Actual depth for each footing shall be approved by the Geotechnical Engineer.

**D. FOOTING INSPECTION**  
The contractor shall employ and pay for the services of the Geotechnical Engineer to perform the designated duties described herein. Definition of footing for inspection scope includes all concrete, reinforcement, dowels, and embedments placed and cast from bottom of footing to construction joint; typically the top of plinth, or bottom of beam or wall.

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No.	PERMIT SET DESCRIPTION	DATE
1	PERMIT SET	06/05/23

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**KHIT CHIROPRACTIC WELLNESS**  
KYLE, TX

2022-008  
**SPECIFICATIONS**  
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- B. TRANSIT-MIX DELIVERY SLIPS
1. Keep a record at the job site showing time and place of each pour of concrete together with transit-mix delivery slip certifying contents of the pour.
  2. Make the record available to the Architect/Engineer for his inspection upon request.
  3. Upon completion of this portion of the Work, deliver the record and the delivery slips to the Architect.
- 1.4 PRODUCT HANDLING
- A. PROTECTION
- Use all means necessary to protect cast-in-place concrete materials before, during, and after installation and to protect the installed work and materials of all other trades.
- B. REPLACEMENTS
- In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect/Engineer and at no additional cost to the Owner.
- PART 2 - PRODUCTS
- 2.1 MATERIALS
- When requested by Engineer, supplier of concrete materials shall furnish certified evidence that all materials delivered to the project meet the requirements of specifications.
- 2.2 PORTLAND CEMENT
- Comply with ASTM C-150, type 1 or type 3.
- 2.3 FLY ASH
- Fly ash may be used as a pozzolan to replace a portion of the Portland Cement in a concrete mix, subject to the approval of the Structural Engineer. Fly ash, when used, shall conform to ASTM C-618, Type C. Concrete mixes using fly ash shall be proportioned to account for the properties of the specific fly ash used and to account for the specific properties of the fly ash concrete thus resulting. The ratio of the amount of the fly ash to the total amount of fly ash and cement in the mix shall not exceed 20 percent.
- 2.4 CONCRETE AGGREGATES
- Comply with ASTM C-33. Maximum aggregate size is 1-1/2".
- 2.5 WATER
- Clean and free from injurious amount of organic substances.
- 2.6 CURING MATERIAL
- For all slabs except those on which additional concrete or other toppings are to be bonded, use a water-based acrylic membrane curing compound that has a maximum volatile organic compound (VOC) rating of 350 g/L (3 lbs./gal.) complying with ASTM C309, Type I, Class B. Available products include VOCOMP-20 (W. R. Meadows, Inc.), MasterKure 100W (Master Builders, Inc.), Dress and Seal WB (L & M Construction Chemicals, Inc.), or approved equal.
- For slabs having bonded toppings, use "Sisakraft" paper as manufactured by the American Sisakraft Company.
- 2.7 MIXING CONCRETE
- Concrete shall be mixed and delivered in accordance with "Standard Specifications for Ready-Mixed Concrete", ASTM C-94.
- 2.8 CONCRETE
- A. PROPORTIONS
1. Proportions shall be as established by the Testing Laboratory for the various strengths noted on the structural plans. Use the following cement content minimums:
- | B. 28 day strength Specified         | Sacks of Cement/<br>cu.yd. of Concrete |
|--------------------------------------|--|
| 1. 2500 psi, reg.wt., with admixture | 4-1/2                                  |
| 2. 3000 psi, reg.wt., with admixture | 5                                      |
| 3. 4000 psi, reg.wt., with admixture | 5-1/2                                  |
- C. CONCRETE SLUMP
- Concrete shall be mixed and delivered in accordance with "Standard Specifications for Ready-Mixed Concrete", ASTM C-94. Maximum slump: 5 inches.

PART 3 - EXECUTION

- 3.1 PLACING CONCRETE
- A. Unless otherwise noted, concrete shall be mixed and placed in accordance with ACI "Standard Building Code Requirements for Reinforced Concrete" (ACI 318), latest edition.
- B. Before batching concrete for placement in a given section, the following items shall be completed:
1. All reinforcing, base plates, dowels, etc., shall be completely and securely tied in place for the entire section to be concreted. Anchor bolts and embedded items requiring accurate location shall be positioned and leveled by the use of templates and instruments, and securely held in place so that no movement occurs during the placement of concrete.
  2. All forming, bulkheads, construction joints, keyways, sleeves inserts, plates etc., and embedded work of other trades shall be complete for the entire section to be concreted.
  3. All materials and equipment for curing and protecting concrete shall be at the job site.
  4. Runways shall be provided for wheeled equipment to protect reinforcing steel. Runways and equipment used in mixing, conveying, lifting and depositing the concrete shall be in good condition, adequate to support all construction loads and suitable and safe for the workmen.
  5. Water and debris shall be removed from space to be occupied by concrete.
  6. See CONCRETE FORMWORK Section for wetting of forms immediately before placing concrete.

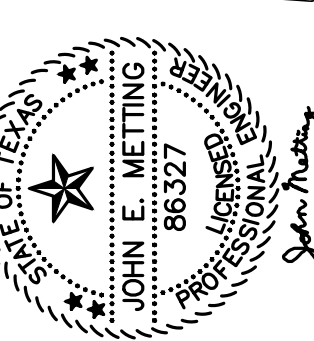
SECTION 03300 - CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

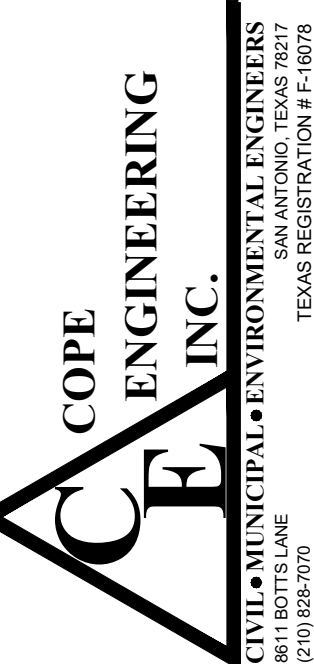
- 1.1 WORK INCLUDED
- A. Cast-in-place concrete required for this work is indicated on the Drawings and includes but is not limited to:
1. Slabs on grade.
  2. Exterior flatwork.
- 1.2 QUALITY ASSURANCE
- A. QUALIFICATIONS OF WORKMEN
- Provide at least one person who shall be present at all times during execution of this portion of the work who shall be thoroughly familiar and experienced in placing the types of concrete specified and who shall direct all work performed under this Section. For finishing of exposed surfaces of the concrete, use only thoroughly trained and experienced journeyman concrete finishers.
- B. CODES AND STANDARDS
- In addition to complying with all pertinent codes and regulations, complying with all the requirements of ACI 301, "Specifications for Structural Concrete for Buildings" and/or ACI 318, "Building Code Requirements for Reinforced Concrete", Refer to ACI 302 "Guide for Concrete Floor and Slab Construction." Refer to IBC 2009, Chapter 17, Special Inspections.
- C. EMBEDMENTS
- Metal sleeves, anchors, and all embedments; furnish and locate by respective trade or by General Contractor. Secure approval of Engineer for installation of sleeves and conduits in structural members.
- D. FINISHES
- Refer to architectural drawings for all floor finishes, location and dimensions of slab drops and depressions, floor checks, and special architectural concrete treatment.
- E. CONCRETE QUALITY
- The Contractor shall be responsible for all aspects of concrete production, including maintenance and control of the quality of the concrete through batching, mixing, placing and curing of the concrete. He shall take whatever measures he deems necessary to accomplish this. To assure the Owner of the quality of the work, an independent testing laboratory shall be employed to perform certain services as described below. The performance of these services does not relieve the Contractor of his responsibility.
- F. CONCRETE MIX DESIGN
- Design the mix proportions for each type of concrete to be used on the project based on aggregate size and cement proportions specified in Part 2 - Products. Laboratory shall go to the designated concrete supplier's batching plant and obtain samples of ingredients which shall be used in determination of compliance with ASTM C-33 and in the preparation of confirmatory test specimens.
- G. CONFIRMATORY TEST SPECIMENS
- Using the proposed mix design, the laboratory shall make one set of four test cylinders for each type of concrete. The results of two 7-day compression tests shall be submitted with the proposed mix design prior to placement of concrete on the job. Subsequently, results of two 28-day compression tests shall be submitted and the strength shall be at least 25% greater than the specified minimum strength for concrete placed on the job.
- H. EXISTING MIX DESIGNS
1. The laboratory may submit data of previously prepared "standard" mix designs provided:
    - a. The mix design was prepared by the laboratory in strict accordance with the provisions of this section of the project specifications.
    - b. The mix design shall have been prepared within the preceding six months. Documentation shall not reference any specific construction project.
    - c. The laboratory shall submit written certification that the materials used in the submitted mix designs are currently stocked at the batching plant.
- I. CONCRETE TESTING
1. Concrete tests shall be performed by a commercial testing laboratory approved by the Structural Engineer. All charges for services as set out below shall be paid by the General Contractor.
  2. The Laboratory shall take samples and perform slump and compression tests in accordance with ASTM C-39 on concrete placed each day at the rate of one set of four cylinders for each 80 cu. yds. or fraction thereof. When more than 80 cu. yds. is being continuously placed, the interval between test samples shall be at least 50 cu. yds. so as to be representative of the whole day's pour. Samples shall be taken at the point of deposit in the field and all cylinders shall be accurately marked and referenced to show date, time and exact location in the structure from which they came. Make 7-day test on two cylinders and 28-day test on two cylinders. Reports of tests shall be promptly sent as follows: two to the Architect (RDPIRC), one to the Engineer, and one to the Contractor.
- J. BELOW STRENGTH CONCRETE
- If the 28-day cylinder strengths fall below the specified strength, the concrete represented by such test cylinders shall be considered unacceptable and subject to removal. Consideration will be given to the acceptance of such concrete if it can be demonstrated to the satisfaction of the Engineer that the cylinder tests do not accurately represent the strength of the concrete in place, or that the structure is fully capable of carrying the loads for which it was designed. This data may be obtained by a series of non-destructive tests and core tests in accordance with ASTM C-42 of the concrete in place, and/or by load testing in accordance with applicable codes. All costs in connection with this additional testing and/or removal and replacement of defective concrete shall be paid by the Contractor.
- 1.3 SUBMITTALS
- A. MATERIALS LIST
- Within 30 days after award of Contract, and before any concrete is delivered to the job site, submit to the Architect in accordance with Section 01300 of these Specifications a complete list of all materials proposed to be furnished and installed under this portion of the Work, showing manufacturer's name and catalog number of all items such as admixture and membrane, and the name and address of transit-mix concrete supplier.

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5-24-2023



No.	PERMIT SET DESCRIPTION	DATE
1	PERMIT SET	06/05/23



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S1.09



PART 2 - PRODUCTS

2.1 PRODUCTS

A. STRUCTURAL STEEL AND PLATES

Steel shapes and plates shall meet the requirements of ASTM A-36, Fy=36,000 PSI, except for wide flange (W-Shapes) which must conform to ASTM A992 (Fy = 50 KSI).

B. RECTANGULAR TUBING

Rectangular tubing Hollow Structural Sections (HSS) shall meet the requirements of ASTM A-500, Grade B, Fy=46,000 PSI.

C. BOLTS AND NUTS

- High strength bolts: Use high strength bearing type bolts conforming to ASTM A-325 for all bolted connections unless otherwise indicated on the Drawings.
- Make bolt holes 1/16 inch larger than nominal bolt diameter.
- All bolts shall have threads excluded from the shear plane.

D. HEADED CONCRETE ANCHORS

ASTM A496, Installation AWS D1.1.

E. PRIMER PAINT

All primer paint for structural steel shall be compatible with the finish coatings described in other sections of these Specifications, and shall be Sherwin-Williams "Kromik", Pittsburgh "Ironhide", Negley "Zinc Chromate Rust-Inhibitive Paint", or equal.

F. MECHANICAL EQUIPMENT SUPPORT

Provide adequate and appropriate structural steel framing, approved by engineer, to support and mount all mechanical equipment resting on structural steel framing including roof top units.

G. OTHER MATERIALS

All other materials, not specifically described, but required for a complete and proper installation of structural steel, shall be new, free from rust, first quality of their respective kinds, and subject to the approval of the Architect.

PART 3 - EXECUTION

3.1 DISCREPANCIES

- In the event of discrepancy, immediately notify the Architect/Engineer.
- Do not proceed with fabrication or installation in areas of discrepancy until all such discrepancies have been fully resolved.

3.2 FABRICATION AND ERECTION

A. GENERAL

Fabricate all structural steel in strict accordance with the approved Shop Drawings and the referenced standards.

B. SHOP CLEANING AND PRIMING

- Shop paint all structural steel one coat of primer, with the exception of:
  - Steel to be encased in concrete
  - Surfaces to be field welded with full penetration groove welds or fillet welds larger than 3/16" size.
  - Surfaces at welds smaller than (b) may be prepared by abrasive paint removal in the field. Touch-up with same paint as used for original shop primer coat.

C. CONNECTIONS

- Beam connections, unless noted otherwise, shall conform to the provisions of "Framed Beam Connections" as shown in AISC Manual. All bolts shall be tightened to the snug-tight condition as defined in AISC Specification on Structural Joints.
- Erection bolts used in welded construction shall be tightened and left in place.
- Provide holes for securing nailers and/or other work to structural steel, and for passage of other work through structural steel. Provide threaded studs welded to framing, and other specialty items as shown to receive other work.
- Field correcting or altering by "torching", or otherwise, will not be permitted unless prior approval is obtained from the Engineer. This applies to fabrication errors as well as work to accommodate other trades. Any errors which prevent the prior assembly of parts as detailed shall be reported to the fabricator for correction.
- Splices will be permitted only when indicated. Splices may be omitted and beams furnished continuous in long lengths if desired.
- The procedure and sequence of all shop and field welding shall be such as will avoid distortion of members and connections.
- Erect structural steel accurately to lines and levels. Members shall be in final position before permanent connections are made.
- Provide temporary bracing for accurate plumbing and to resist all wind and construction loads, using cable and/or angle "X" bracing in sufficient quantity to completely brace and stabilize the structure throughout the entire construction period. Erection equipment, shoring, scaffolding, etc., shall be suitable and safe for workmen, and shall be maintained in a safe and stable condition.

E. ANCHORAGE

Nelson Stud Anchors shall be used where indicated and shall be applied in full compliance with the Manufacturer's instructions.

END OF SECTION 05100

SECTION 05100 - STRUCTURAL STEEL

PART 1 - GENERAL

1.1 SCOPE

Structural steel required for this work is indicated on the Drawings and includes, but is not limited to the following:

- Columns and Beams.

1.2 QUALITY ASSURANCE

A. QUALIFICATIONS OF SUPPLIERS AND PERSONNEL

- The steel fabricator shall have not less than five years continuous experience in the fabrication of structural steel.
- The steel erector shall have not less than five years continuous experience in the erection of structural steel.

B. WELDER'S QUALIFICATIONS

- Welds shall be made only by welders and welding operators who have been qualified within the preceding 12 months by tests as prescribed in the "Code for Welding in Building Construction" of the American Welding Society, to perform the type of work required. All welders working on the project shall be assigned an identifying symbol or mark. Each welder will be required to mark his symbol on each weldment completed for identification. The Contractor shall maintain a record of welders employed, date of qualification and symbol or identification mark assigned to each.

- When requested by Engineer, supplier of structural steel shall furnish evidence that all materials delivered to the project meet the requirements of the specifications.

C. CODES AND STANDARDS

- In addition to complying with all pertinent codes and regulations, structural steel shall comply with the following:
  - Unless noted otherwise, shall meet the requirements of the "Manual of Steel Construction, Specification for the Design, Fabrication and Erection of Structural Steel for Buildings" as amended to date and the "Code of Standard Practice" latest edition as adopted by the American Institute of Steel Construction.
  - "Code for Welding in Building Construction" of the American Welding Society.
- Refer to IBC 2009, Chapter 17, Special Inspections.

D. CONFLICTING REQUIREMENTS

In the event of conflict between pertinent codes and regulations and the requirements of the referenced standards or these Specifications, the provisions of the more stringent shall govern.

1.3 SUBMITTALS

A. SHOP DRAWINGS

- The Contractor shall obtain completely detailed shop drawings showing anchorage placing plans, member placing and erection plans, all member sizes, location, bridging, bracing, connections, methods of assembly, etc. The Contractor shall carefully check these drawings, then submit them to the Architects. The Architect/Engineer may conduct limited spot checks aimed solely at determining general comprehension of the design intent, then return them to the Contractor. The Contractor shall then carefully recheck the shop drawings and approve them prior to fabrication. The structural construction documents shall not be copied by the fabricator for use as erection drawings.
- The contractor/fabricator shall check and verify the overall assembly of structural framing elements, including connection details, to ensure that proper erection is feasible. Adequate clearance shall be provided at connections to ensure correct fitting of connected elements, taking into account mill tolerance, weld clearance, etc.
- The Architect's spot check shall not relieve the Contractor from correcting, at his own expense, any items that may thereafter be found not to comply with the plans and specifications.

- Show all shop and erection details including cuts, copes, connections, holes for threaded fasteners, rivets, and welds.
- Show all welds, both shop and field, by the currently recommended symbols of the American Welding Society.

B. PROOF OF QUALIFICATION

Within five days after award of Contract, submit to the Architect satisfactory evidence that the steel fabricator and steel erector are qualified for the work in accordance with the requirements of this section of these Specifications.

1.5 PRODUCT HANDLING

A. PROTECTION

Use all means necessary to protect structural steel before, during, and after installation and to protect the installed work and materials of all other trades.

B. REPLACEMENTS

In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect/Engineer and at no additional cost to the Owner.

2.15 CURING

Protect surfaces against frost and rapid drying and keep moist for minimum of 6 days after placing. During this period maintain concrete temperature of 70 F. for at least 3 days or above 50 F. for at least 5 days.

2.16 REMOVAL

Do not lift panels from forms until they have gained a compressive strength of 3,000 psi minimum. Remove traces of form liner from exposed surfaces. Lift panels using bolted inserts and approved method.

2.17 WALL PANEL FINISHES

Surface shall be finished as specified below. Refer to Architectural Drawings for locations of each type.

2.18 SEALANT SURFACES

Edge surfaces which will be in contact with sealant shall be smooth. Exercise care in finishing panels so as to maintain smooth edges.

2.19 FINISHES

- Refer to architectural drawings for surface finishes and treatment such as reveals and form lines.
- Concealed surfaces shall consist of a smooth, hardwood float finish free of blemishes and surface irregularities.
- Panels shall be stripped and cleaned of all foreign materials.
- All irregularities including those caused by lifting hardware shall be grouted smooth to match wall finishes.
- Panels shall have 3/4" chamfer at all panel joints, door openings, and fixed glass windows where detailed. Reveals and corners: Refer to plans.

2.20 TOLERANCES

- Concrete wall panels shall meet the following tolerances:
  - Squareness: Not more than 1/8" in six feet out of square.
  - Warpage: Shall not exceed 1/8" per six feet of panel.
  - Anchor and Insert Location: Shall be + 3/8" from centerline of location shown on Drawings.
  - Blockout and Reinforcing: Shall be + 1/4" of location shown on Drawings.
  - All panels are detailed as viewed from inside building and are to be cast with interior face up.

2.21 CURING

- Curing of units shall be undertaken with the utmost care so as to prevent shrinkage, warpage, and/or loss of ultimate strength.
- Panels shall be kept at a minimum of 60 F. after casting and under moist condition until ready for erection.
- Wall panels shall not be erected until they have reached the design for lifting.

2.22 NON-BONDING COMPOUND

Type: Separating compound to allow tilt up panels to be formed and poured on the floor slab without damaging the slab.

2.23 ACCEPTABLE MANUFACTURERS

- Dayton Superior Conspec
- Burke Concrete Accessories
- Thompson's Waterseal

PART 3 - EXECUTION

3.1 WALL PANEL INSTALLATION

- Erect panels and fasten to structure using proper anchors and inserts in accordance with details or approved drawings.
- Accurately position and plumb panels before welding or bolting connection plates. Required welding shall be performed by welders qualified in accordance with the requirements of the American Welding Society. Lifting and erection shall be accomplished in a neat workmanlike manner to prevent cracking, chipping, spalling, breaking, or otherwise damaging panels.

3.2 PATCHING

Patching of minor defects will be permitted. Damaged areas shall be cleaned and patched with a mixture of cement, sand and bonding agent, so as to match color of surrounding area. After curing, finish and texture patches to match adjacent surfaces.

3.3 CLEANING

Where required to clean down concrete panels using a stiff fiber brush, clear water and mild soap. Rinse with water after soaping. Use of acid is strictly prohibited.

END OF SECTION 03410

PART 2 - PRODUCTS

2.1 MATERIALS

Portland Cement: ASTM C-150, Type I or III.

2.2 AGGREGATES

- Coarse - ASTM C-33
- Fine - ASTM C-33

2.3 WATER

Potable

2.4 REINFORCING

- Steel Bars - ASTM A-615, Grade 60 domestic
- Wire Mesh - ASTM A-185

2.5 ANCHORS

Steel plates, rods, channels, and angles ASTM A-36. Painted after fabrication as specified.

2.6 LIFTING INSERTS

- Number of inserts as required on shop drawings.
- Minimum 4 per panel galvanized, Burke Concrete Accessories Co., Type B-125 Shear 12,000#, minimum capacity tension 8500#. 3 to 1 safety factor.

2.7 FORMS

Accurate molds constructed of metal or wood. Materials shall be of quality strength, to withstand high frequency vibration without distortion and support loads of wet concrete. Materials shall be new with smooth surfaces.

2.8 CURING PAPER

Orange Label Sisal Kraft Paper, or Burkekraft Curing Paper.

2.9 RETARDER (if required)

Sonotex Surface Retarder as made by Sonneborn or approved equal.

2.10 BOND BREAKER

Burke Bond Breaker #200, or equal. It will be Contractor's responsibility to see that the bond breaker he uses is compatible with all surfaces, requiring paint finishes.

- Use a Bond Breaker that is water based, V.O.C. compliant, and compliant with ASTM C-309, Type 1, Class A & B. Agent shall be free of oils, waxes, paraffins or other materials that can affect bonding of subsequent finishes or natural appearances of the finished concrete. (example: Dayton Superior Conspec Tilt-EEZ WB).
- Bond Breaker that is used shall be of such nature that will not bleed through paint. If bleed occurs it will be necessary to reseed and repaint, at Contractor's expense. See Painting Section.

2.11 PANEL MIXES

STRUCTURAL WALL PANEL MIX

- Cement - Gray Portland
- Aggregate-Gravel or crushed stone
- Minimum compression strength - 4,000 psi @ 28 days.

2.12 FABRICATIONS

FORMS

Design, layout and engineering of formwork shall be the responsibility of Contractor or Fabricator. Forms shall be built to conform to shapes, lines and dimensions of detailed wall panels. Forms shall be set to line and grade, and so braced to withstand placing and vibration. Forms shall be sufficiently tight and assembled so as to prevent bulging and leaking. Form joints in exposed surfaces shall be taped with 1/16" double coated foam pressure sensitive tape #4-16 by 3M. Securely fasten form lines in place, as required to produce finished profiles and surfaces detailed. Coat contact surfaces of forms and form liners with form release agent prior to placing reinforcement.

2.13 REINFORCEMENT

- Panels shall be reinforced as detailed and described on structural drawings.
- Provide four (4) #4 bars X 3'-0" (two each way) over each lifting insert.
- Fabricate all dowels to fit casting bed and bend into proper position after erection.
- Provide bar chairs @ 5'-0" on centers each way to support reinforcing and wire into place.

2.14 PLACING CONCRETE

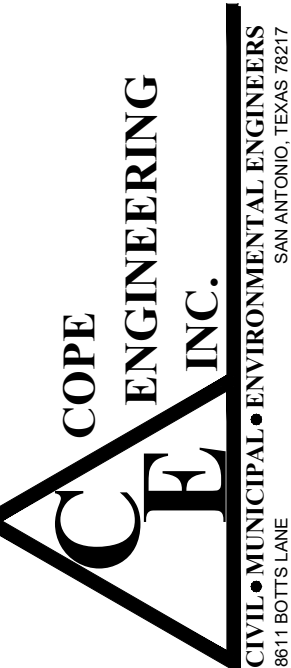
Place concrete with a maximum slump of 4", in uniform layers and continuously vibrate. Back or top of panels shall be given a steel trowel finish. Place back-up concrete just as soon as possible after placing mix.

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8-24-2025



No.	PERMIT SET DESCRIPTION	DATE
1		06/05/23

Design, layout and engineering of formwork shall be the responsibility of Contractor or Fabricator. Forms shall be built to conform to shapes, lines and dimensions of detailed wall panels. Forms shall be set to line and grade, and so braced to withstand placing and vibration. Forms shall be sufficiently tight and assembled so as to prevent bulging and leaking. Form joints in exposed surfaces shall be taped with 1/16" double coated foam pressure sensitive tape #4-16 by 3M. Securely fasten form lines in place, as required to produce finished profiles and surfaces detailed. Coat contact surfaces of forms and form liners with form release agent prior to placing reinforcement.



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2.2 MATERIALS

- A. Vapor Barrier
  1. Refer to plans for vapor barrier thickness.
  2. Material manufactured with ISO certified virgin resins.
- B. Substitutions: See Section 01631 - Product Substitutions
  1. Sheet polyethylene is not an acceptable substitution.

2.3 ACCESSORIES

- A. Tape:
  1. High Density Polyethylene Tape with pressure sensitive adhesive. Minimum width 4".
- B. Pipe Boot:
  1. Construct pipe boots from vapor barrier material and pressure sensitive tape per manufacturer's instructions.

2.4 SOURCE QUALITY CONTROL AND TESTS

- A. Reference Standards:
  1. Water Vapor Retarders Used in Contact with Earth under Concrete Slabs: Exceeds Class A According to ASTM E 1745.
  2. Water Vapor Transmission Rates: 0.006 gr./ft2/hr. according to ASTM E 96.
  3. Permeance Rating Result: 0.01 gr./ft2/hr. according to ASTM E96.
  4. Puncture Resistance Result: 204.0-lbs./sq. ft. according to GRI-GS-1-86.
  5. Puncture Resistance Result: 1972.5 grams according to ASTM D 1709.
  6. Tensile Strength Result: 54.2 lbs./MD and 55.5lbs./CMD according to ASTM D 638.
  7. Low Temperature Brittleness: Pass according to ASTM D1790.

PART 3 - EXECUTION

3.1 EXAMINATION

Verify that conditions are acceptable for the placement of the vapor barrier.

3.2 PREPARATION

Ensure that subsoil is approved by Structural Engineer. Vapor Barrier may be installed over an aggregate, sand or tamped earth base.

3.3 INSTALLATION

Install Vapor barrier per manufacturer's instructions, illustrations and ASTM E 1643-94-Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs.

1. Level and tamp or roll granular base.
2. Place Vapor Barrier with the longest dimension parallel with the direction of the pour.
3. Lap Vapor Barrier over footings and seal to foundation walls. Seal all penetrations.
4. Lap joints 6 inches and seal with the recommended pressure sensitive tape.
5. Seal pipe penetrations with pipe boot made from Vapor Barrier and tape.
6. Protect Vapor Barrier from damage during installation of reinforcing steel and utilities.
7. Repair damaged areas by cutting patches of vapor barrier, overlapping damaged area 6 inches and taping all four sides with pressure sensitive tape.

3.4 INTERFACE WITH OTHER WORK

Coordinate work of all other trades related to the slab base and utility services.

3.5 CLEANING, AND PROTECTION

- A. Clean all contaminants from surface.
- B. Protect installed vapor barrier from subsequent damaging construction operations.
- C. Do not permit vehicular/heavy equipment traffic over unprotected vapor barrier.

END OF SECTION 07260

3.2 TOUCH-UP PAINTING

- A. After decking installation, wire brush, clean and paint scarred areas, welds and rust spots on top and bottom surfaces of decking units and supporting steel members.
- B. Touch-up painted surfaces with same type of shop paint used on adjacent surfaces.
- C. Damaged or bent sections, or sections which do not properly mesh together at the side laps, shall not be used.
- D. Minor openings, not shown on the plans or detailed on the shop drawings, shall be neatly cut and trimmed in the field; and shall be reinforced as required to maintain the strength and continuity of the deck.
- E. Reinforce openings 6 inches to 18 inches in size with 2 inch x 2 inch x 1/4 inch steel angles. Place angles perpendicular to flutes, extended minimum two flutes each side of openings and weld to deck.
- F. Reinforce openings over 18 inches in size in accordance with structural framing details indicated on drawings.

END OF SECTION 05300

SECTION 07260- VAPOR BARRIER

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Installation of a vapor barrier under concrete slab.
- B. This vapor barrier shall be used in lieu of any vapor barrier of lesser thickness under the slab.

1.2 RELATED SECTIONS

- A. Structural Earthwork for Building Foundation Section 02224
- B. Concrete Forms and Accessories Section 03100
- C. Concrete Reinforcement Section 03200
- D. Cast-in-Place Concrete Section 03300

1.3 REFERENCES

- A. ASTM E 1643-94 - Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs.
- B. ASTM E-1745 - Standard Specification for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs: Exceeds Class A.
- C. ASTM E-96 - Standard Test Methods for Water Vapor Transmission of Materials; 1995.
- D. GRI-GS-1-86 - Puncture Resistance
- E. ASTM D 1709 - Standard Test Methods for Puncture Resistance.
- F. ASTM D 638 - Standard Test Methods for Tensile Properties of Plastic; 1996
- G. ASTM D 1790 - Standard Test Methods for Low Temperature Brittleness

1.4 SUBMITTALS

- A. See Section 01300 - Submittals, for submittal procedures.
- B. Product Data: Provide manufacturer's printed product literature and description, including tests and standards that have been performed on the vapor barrier material.
- C. Samples: Submit two, 8 1/2 x 11 inch in size, illustrating the vapor barrier and two (2) 8 1/2 inch long sample strips of the joint tape.
- D. One each of all accessories that will be used in the installation.
- E. Verification by independent testing labs indicating that materials comply with specified requirements.
- F. Certificates: Certify that products of this section meet or exceed specified requirements.
- G. Manufacturer's Instructions: Indicate complete installation instruction.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.
- B. Installer Qualifications: Company specializing in performing the work of this section with minimum five years of experience.

1.6 DELIVERY, STORAGE, AND PROTECTION

Deliver Vapor Barrier to project site in manufacturer's original container/packaging.

1.7 PROJECT CONDITIONS

- A. Coordinate Vapor Barrier installation with size, location and installation of service utilities.
- B. Sequence installation to ensure utility connections are achieved in an orderly and expeditious manner.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Stego Industries, L.L.C., Mercer Island, WA, tel. (206) 232-8457, toll free (877) 223-4333.
- B. Reef Industries (800) 231-6074
- C. Raven Industries (Sioux Falls, S.D. (800)635-3456).

3.6 BRIDGING

- A. Bridging size, type, and spacing shall be in accordance with Steel Joist Institute specifications, unless noted otherwise.
- B. Install bridging promptly after placing joists, before the application of any loads.
- C. Provide bottom chord bridging as required for uplift due to wind forces.

END OF SECTION 05210

SECTION 05300 - METAL DECKING

PART 1 - GENERAL

1.1 WORK INCLUDED

Steel roof deck complete with cover plates, cell closures and flashings and occasional closures.

1.2 REFERENCE STANDARDS

- A. ASTM A-36 - Structural Steel
- B. Steel Deck Institute - "Basic Design Specifications".
- C. ASTM A-611 - Grade "C" and ASTM A-446 carbon steel sheet.
- D. AISI - Specification for the Design of Cold-Formed Steel Structural Members.

1.3 SHOP DRAWINGS

- A. The Contractor shall obtain completely detailed shop drawings showing type of deck section employed in each area of roof, how they are adapted to special conditions, method of welding deck to supporting members, method of reinforcing deck at openings, and location and type of all accessories which are part of the deck proper. The Contractor shall carefully check these drawings, then submit them to the Architect/Engineer. The Architect/Engineer may conduct limited spot checks aimed solely at determining general comprehension of the design intent, then return them to the Contractor. The Contractor shall then carefully reread the shop drawings and approve them prior to fabrication.
- B. The Architect/Engineer's spot check does not relieve the Contractor from correcting, at his own expense, any items that may thereafter be found not to comply with the plans and specifications.

PART 2 - PRODUCTS

2.1 PRODUCTS

- A. ACCEPTABLE MANUFACTURERS
  - Wheeling Corrugating Company or Vulcraft Division of Nucor. Substitutions: Items of same function and performance are acceptable if product data is submitted and approved.
- B. MATERIALS AND COMPONENTS
  1. Steel for painted deck: ASTM A-611, Grade C, Fy=33,000 psi.
  2. Bearing Plates and Angles: of ASTM A-36 type steel.
  3. Anchor Bolts and Required Nuts and Washers: High strength type recommended for structural steel joints; ASTM A-325.
- C. WELDING MATERIALS
 

Applicable AWS D1.1 type required for materials being welded.
- D. DECKING AND RELATED ACCESSORIES
 

Roof Decking: Minimum 22 gauge sheet steel; 30 inch wide sheet; double span; manufactured by Wheeling or Vulcraft. Refer to plan for specific section properties required.
- E. FABRICATION
 

Fabricate metal decking as recommended by the Steel Deck Institute. Fabricate to accommodate maximum working stress of 20,000 psi and maximum deflection of 1/360 of span.
- F. SHOP FINISH
 

Steel shall be thoroughly cleaned in a chemical bath, followed by a rinse, phosphatized, rinsed, dried and properly prepared for painting. After phosphatizing, the surface shall be roller coat painted to insure an even protective covering with a gray flexible primer which when oven cured, shall have a moderate reflectance value.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Erect metal decking as recommend by the SDI. Properly align and level on structural supports. Deck sheets shall extend over three or more spans, where possible. End laps of sheets shall be a minimum of 2" and shall occur over supports.
- B. Allow minimum 1-1/2 inch bearing when supported by structural steel and minimum 4 inch bearing when supported by masonry.
- C. Deck shall be anchored by welding directly through the bottom of the ribs to all structural supports. Welds to supports shall be made at the side ribs and at the center of each sheet and at other ribs so that the spacing between welds across the width of each sheet does not exceed 18 inches. Welds shall be not less than 5/8" diameter fusion welds, and shall be made by competent, experienced welders. At free edges of deck (entire perimeter of decked area) weld to supports at 12" on center. Refer to Steel Framing Note SF-4 for sidelap attachment requirements.
- D. Contractor shall notify the structural engineer when steel deck installation is complete to permit observation prior to placement of insulation or roofing substrate.

SECTION 05210 - OPEN WEB STEEL JOISTS

PART 1 - GENERAL

1.1 SCOPE

Refer to Drawings for the extent of work included under this Section.

1.2 QUALITY ASSURANCE

- A. All materials, design, welding, anchorage, bridging, handling, erection, and shop painting shall meet the requirements of the "Recommended Code of Standard Practice for Steel Joists and Joist Girders" as adopted by the Steel Joist Institute, latest revision; with exceptions, alternatives and specific applications as noted on the plans and as herein specified.
  - B. The Manufacturer shall be a member of the Steel Joist Institute and publish a brochure of his products, including load tables and instructions regarding proper use of products.
- 1.3 SUBMITTALS
- A. The Contractor shall obtain completely detailed shop drawings showing anchorage details, placing and erection plans, all member sizes, location, bridging, bracing, connections, method of assembly, etc. The Contractor shall carefully check these drawings, then submit them to the Architect. The Architect may conduct limited spot checks aimed solely at determining general comprehension of the design intent, then return them to the Contractor. The Contractor shall then carefully reread the shop drawings and approve them prior to fabrication.
  - B. The Architect's spot check shall not relieve the Contractor from correcting, at his own expense, any items that may thereafter be found not to comply with the plans and specifications.
- 1.4 CERTIFICATION
- The products specified in this section shall be designed by a Professional Engineer ("Specialty Engineer") registered to practice in this state. Preparation of shop drawings and/or erection drawings shall be performed under the supervision of the Specialty Engineer. Upon delivery of the products to the jobsite, the product supplier shall submit for record written confirmation, sealed by the Specialty Engineer, that these requirements have been met and shall list design loads and engineering criteria employed. Note joists designated on plans must be verified as adequate to withstand net uplift forces as given in General Notes.
- 1.5 PRODUCT HANDLING
- A. PROTECTION
 

Use all means necessary to protect steel joists before, during, and after installation and to protect the installed work and materials of all other trades.
  - B. REPLACEMENTS
 

In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect and at no additional cost to the Owner.

PART 2 - PRODUCTS

2.1 STEEL

Used in manufacture of joists shall meet the requirements of the applicable Steel Joist Institute specifications.

2.2 PAINT

All steel joists and accessories shall receive one shop coat of paint meeting the requirements of the Steel Joist Institute specifications. Where joists are exposed to view, the shop coat shall be Zinc Chromate or Red Oxide.

2.3 EXTENDED ENDS

Provide ceiling extensions in all areas having suspended ceilings and where indicated on architectural plans.

PART 3 - EXECUTION

3.1 ERECTION

Carefully place joists at designated locations and weld joist seats to steel beams.

3.2 SPECIAL JOIST CONNECTION

- A. At all columns not framed by beams in at least two directions, the joist closest to the column centerline shall be field bolted to provide lateral stability during construction prior to welding.
- B. Do not begin placement of joists until support members are in place and secured.
- C. When in final position, joist upper and lower chords shall be in vertical alignment, and joist shall be straight from seat to seat.
- D. No field cutting or altering of joists will be permitted, unless prior approval is obtained from the Engineer. Joists improperly fabricated shall be reported to the Manufacturer for correction.

3.3 FIELD WELDING

For connections of bridging, bracing, accessories, work of other trades, etc., shall be carefully done and shall not damage the joists.

3.4 MECHANICAL EQUIPMENT SUPPORT

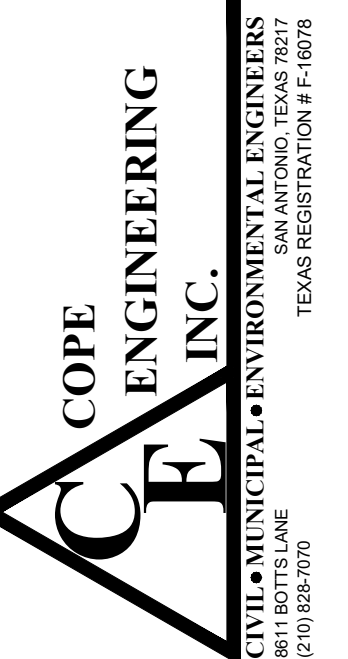
Provide adequate and appropriate structural steel framing, approved by the engineer, for the support and mounting of mechanical equipment resting on, or suspended from, steel joists. No concentrated loads, hangers, etc. shall be attached to the top or bottom chord of joist except at "panel points" (the junctures of chords and diagonal web members.) Joists shall be modified or strengthened to carry such loads.

3.5 PROVIDE ANY TEMPORARY BRACING

Provide any temporary bracing that may be required to resist all wind and construction loads. Erection equipment, methods employed, shoring scaffolding, etc., shall be suitable and safe for workmen, and shall be maintained in a safe and stable condition.

Metting Engineering, PLLC

455 Brooks Lane  
Poblet, TX 76065  
PHONE: 817-251-1000  
FAX: 817-251-1009



No.	PERMIT SET DESCRIPTION	DATE
1	PERMIT SET	06/05/23



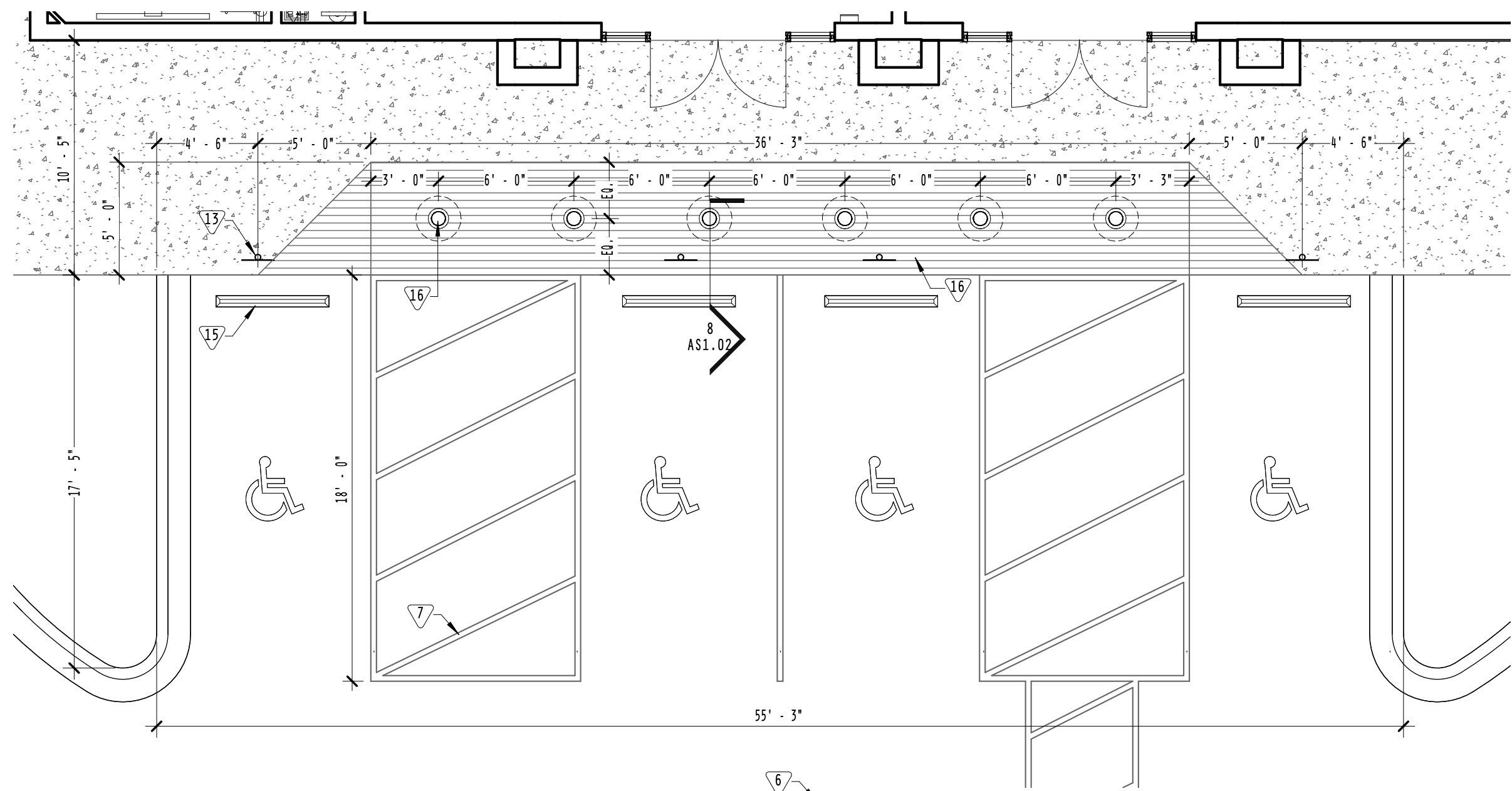
**KHIT**  
CHIROPRACTIC  
WELLNESS

2022-008  
SPECIFICATIONS  
5 OF 5

S1.11

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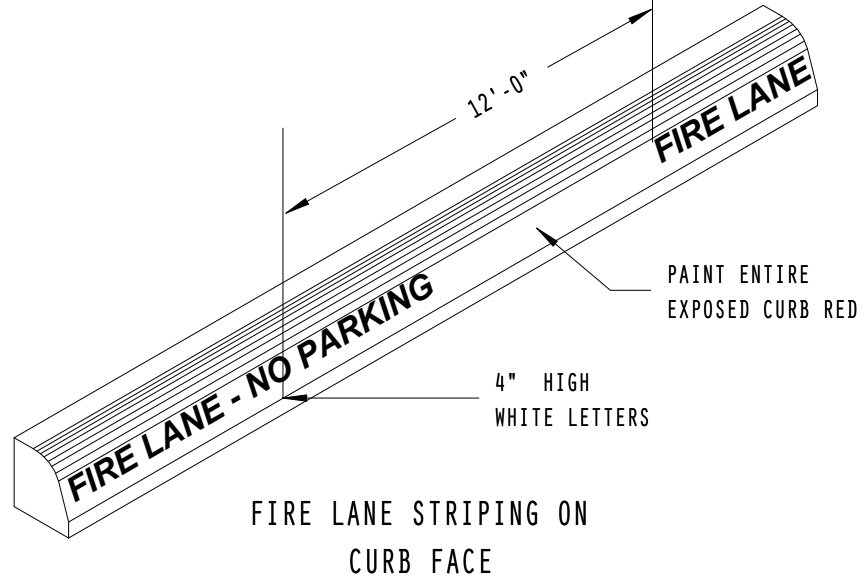
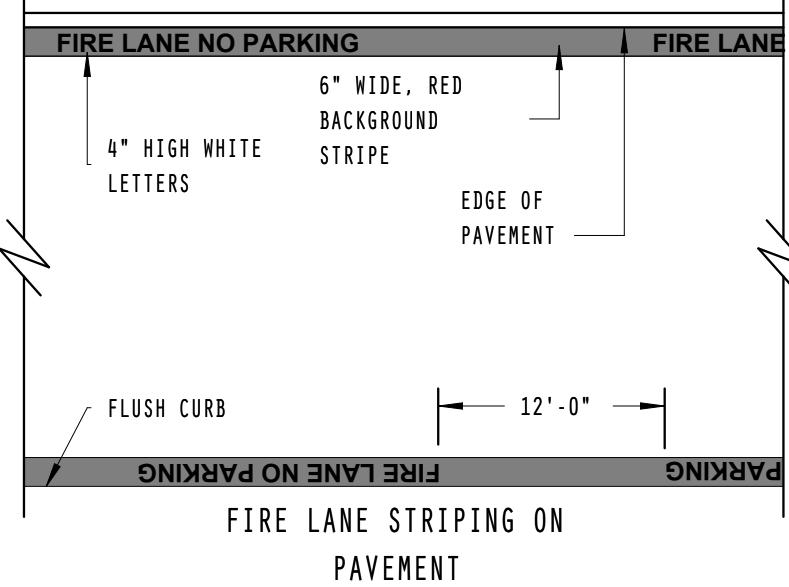


**6** ENLARGED SITE PLAN  
3/16" = 1'-0"

**NOTES:**

1. ALL REQUIRED FIRE LANES SHALL BE PROVIDED AND MAINTAINED WITH FIRE LANE STRIPING THAT CONSIST OF A SIX INCH (6") WIDE RED BACKGROUND STRIPE WITH FOUR INCH (4") HIGH WHITE LETTERS STATING "FIRE LANE NO PARKING" TO BE PAINTED UPON THE RED STRIPE EVERY TWELVE FEET (12') ALONG THE ENTIRE LENGTH OF THE FIRE LANE SHOWING THE EXACT BOUNDARY OF THE FIRE LANE. FIRE LANE MARKINGS SHALL BE UPON THE VERTICAL SURFACE OF THE CURB, UNLESS OTHERWISE APPROVED BY THE FIRE CHIEF OR AUTHORIZED REPRESENTATIVE.

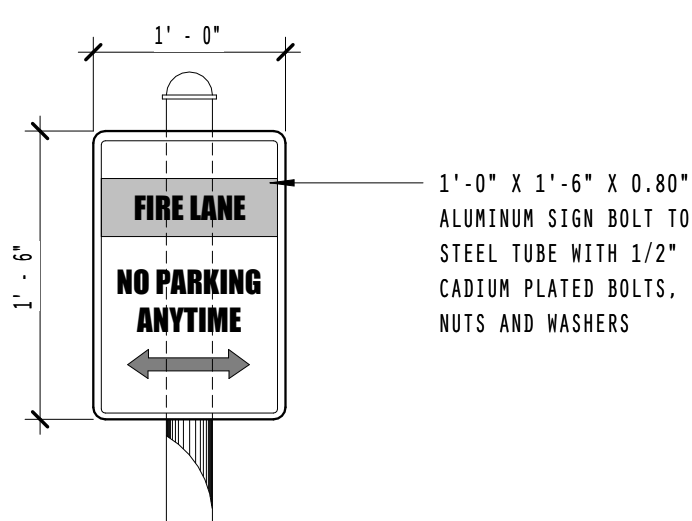
2. ALL DESIGNATED FIRE LANES SHALL BE MAINTAINED AND KEPT IN A STATE OFF GOOD REPAIR AT ALL TIMES BY THE OWNER OR PERSON IN CONTROL OF THE PREMISES.



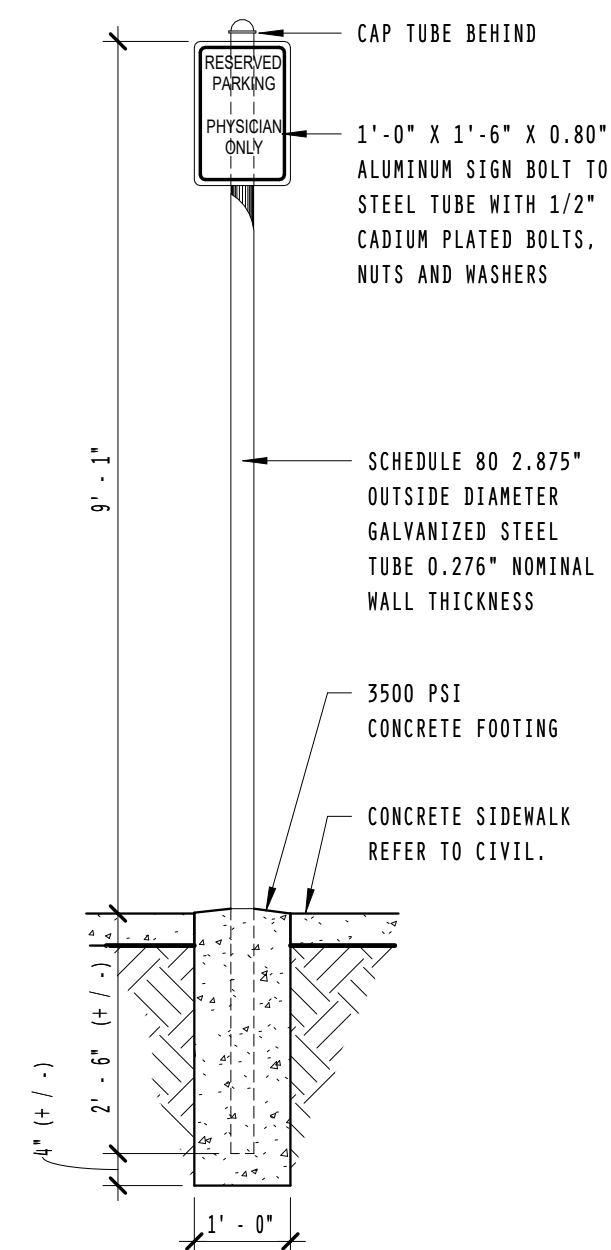
**5** FIRE LANE DETAILS  
12" = 1'-0"

**NOTES:**

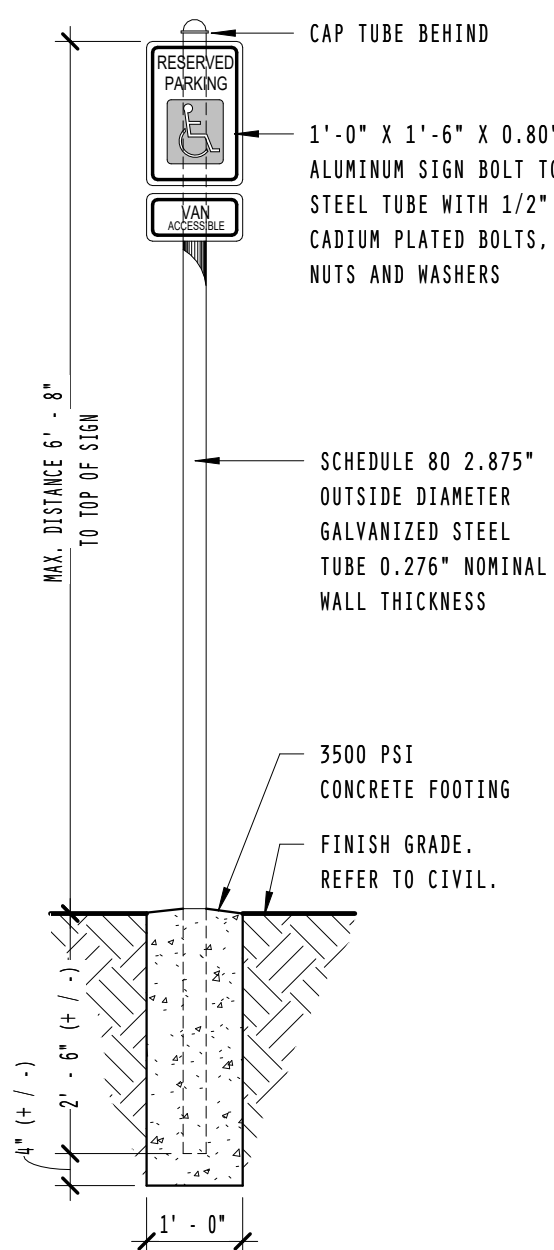
SIGNS SHALL READ "NO PARKING FIRE LANE" OR "FIRE LANE NO PARKING" AND SHALL BE 12" WIDE AND 18" HIGH. SIGNS SHALL BE PAINTED ON A WHITE BACKGROUND WITH LETTERS AND BOARDS IN RED. USING NOT LESS THAN 2" LETTERING. SIGN SHALL BE PERMANENTLY AFFIXED TO STATIONARY POST AND THE BOTTOM OF THE SIGN SHALL BE SIX FEET SIX INCHES (6'6") ABOVE FINISHED GRADE. SIGN SHALL BE SPACED NOT MORE THAN FIFTY FEET (50') APART ALONG BOTH SIDES OF THE FIRE LANE. SIGNS MAY BE INSTALLED ON PERMANENT BUILDINGS OR WALLS AS APPROVED BY THE FIRE CHIEF.



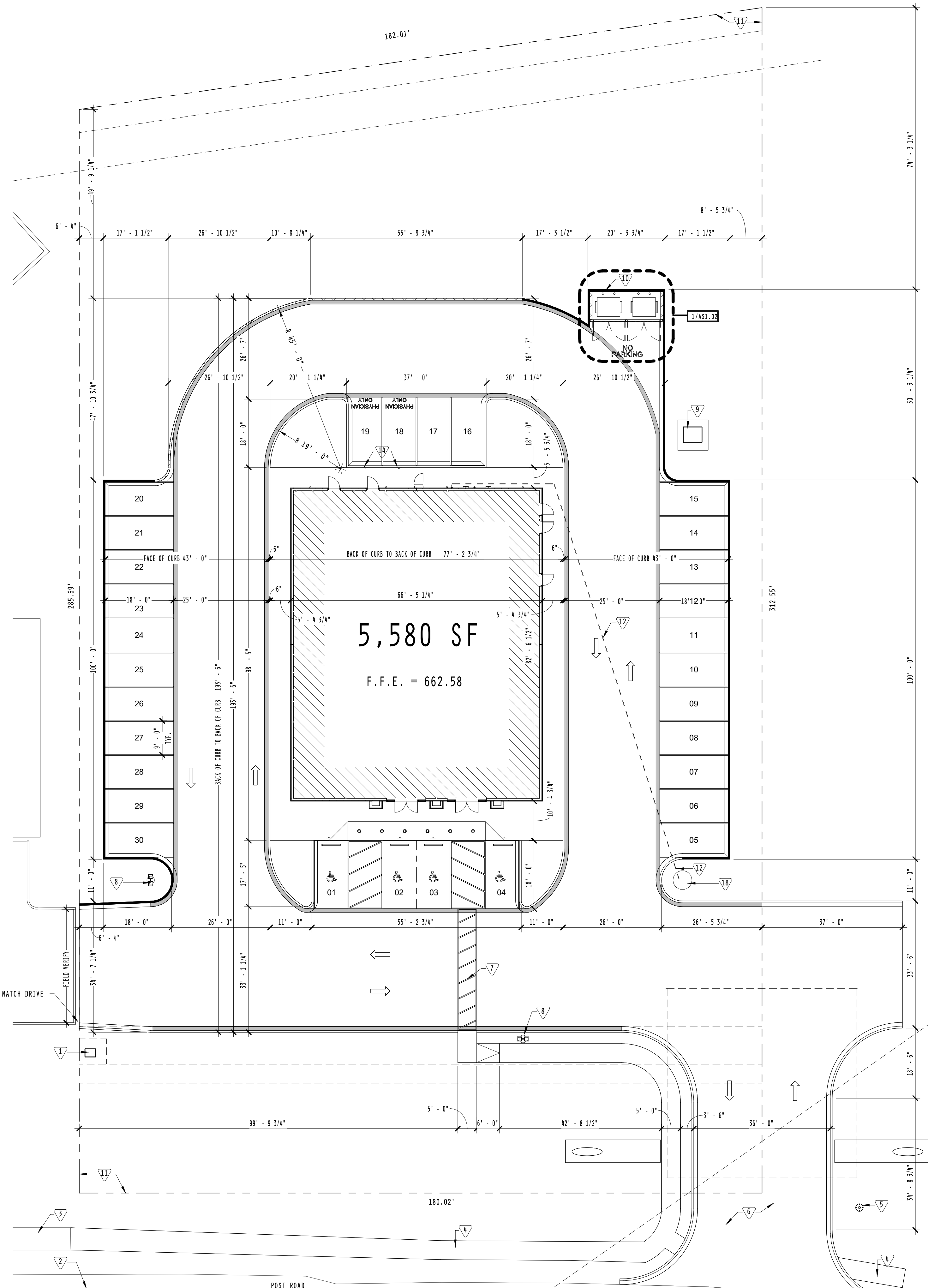
**4** FIRE LANE SIGN DETAIL  
1" = 1'-0"



**3** PARKING SIGN  
1/2" = 1'-0"



**2** PARKING SIGN  
1/2" = 1'-0"



**1** SITE PLAN  
1/16" = 1'-0"

**SHEET KEYNOTES**

- EXISTING ELECTRICAL TRANSFORMER
- EXISTING ROADWAY
- EXISTING SIDEWALK
- 5' PUBLIC SIDEWALK REFER CIVIL DNG
- EXISTING MANHOLE
- DRIVEWAY REFER CIVIL DRAWINGS
- STRIPING REFER CIVIL DRAWINGS
- LIGHT POLE AND CONCRETE BASE. REFER MEP DRAWINGS
- ELECTRICAL TRANSFORMER AND CONCRETE PAD REFER MEP DRAWINGS
- DUMPSTER ENCLOSURE
- PROPERTY LINE
- PROVIDE 1" CONDUIT FROM COMMUNICATION BOX TO FUTURE POLE SIGNAGE
- PARKING SIGN, ADA
- PARKING SIGN, PHYSICIAN ONLY
- TIRE STOP
- PROTECTION BOLLARD
- ADA RAMP
- PYLON SIGNAGE BY OTHERS

**CURB LEGEND**

- PROVIDE RETAINING WALL. REFER STRUCTURAL DRAWINGS
- SAW TOOTH DESIGN. REFER CIVIL DRAWINGS
- FIRE LANE STRIPE

**PARKING ANALYSIS**

5,580 BUILDING SF / 250 SF PER 1 STALL  
= 23 SP REQUIRED  
= 26 SP + 4 HANDICAP = 30 SP PROVIDED

1 PERMIT SET 06/05/23  
No. DESCRIPTION DATE

06.05.23  
SAN GARCIA ARCHITECT  
1200 AUBURN AVE., SUITE 280  
MCALLEN, TX 78504  
(956) 631-8327  
INFO@SANGARCIAARCHITECT.COM

**KHIT CHIROPRACTIC WELLNESS**

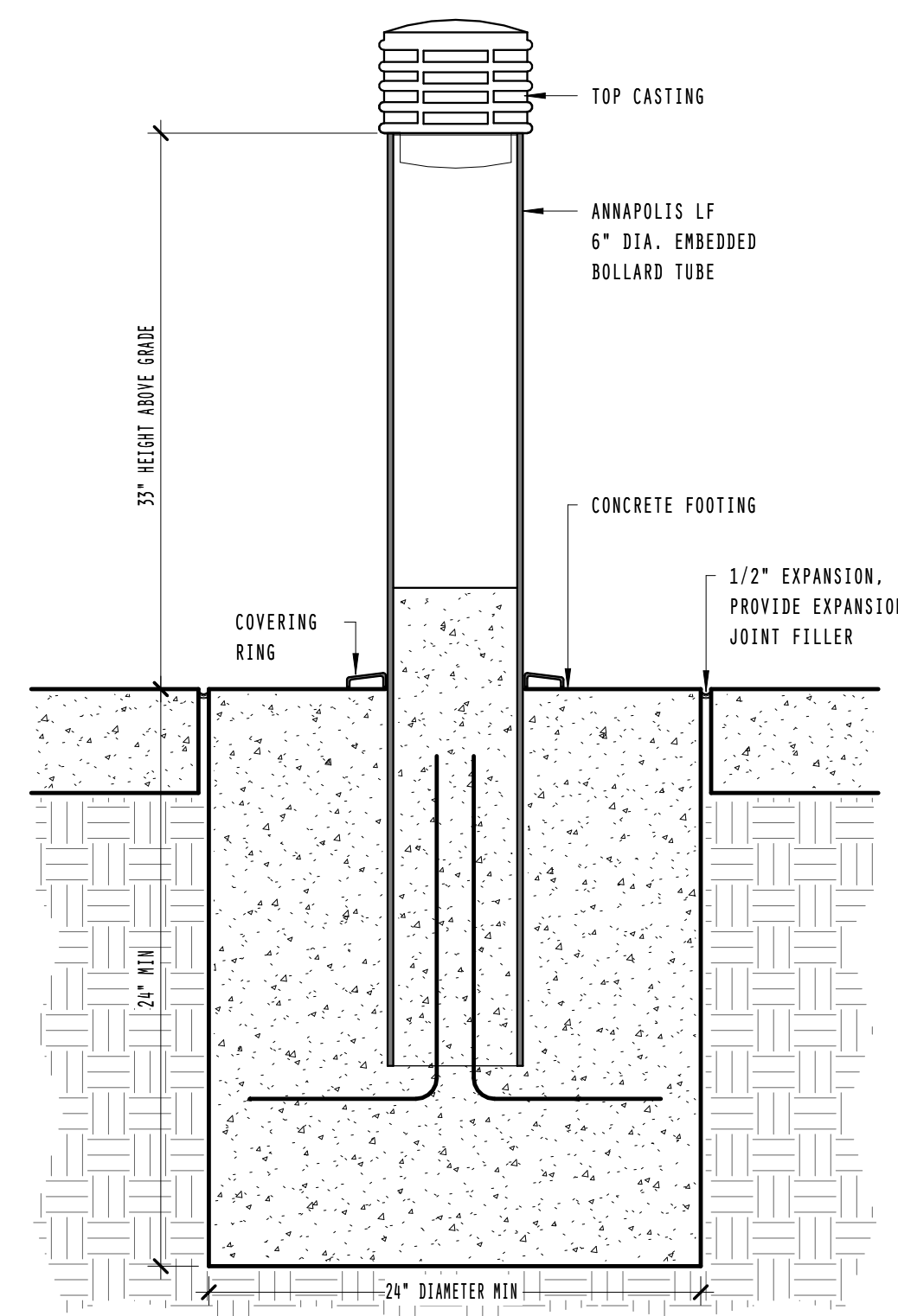
6151 E. POST ROAD, KYLE, TX 78640  
2022-008 06.05.23

SITE PLAN

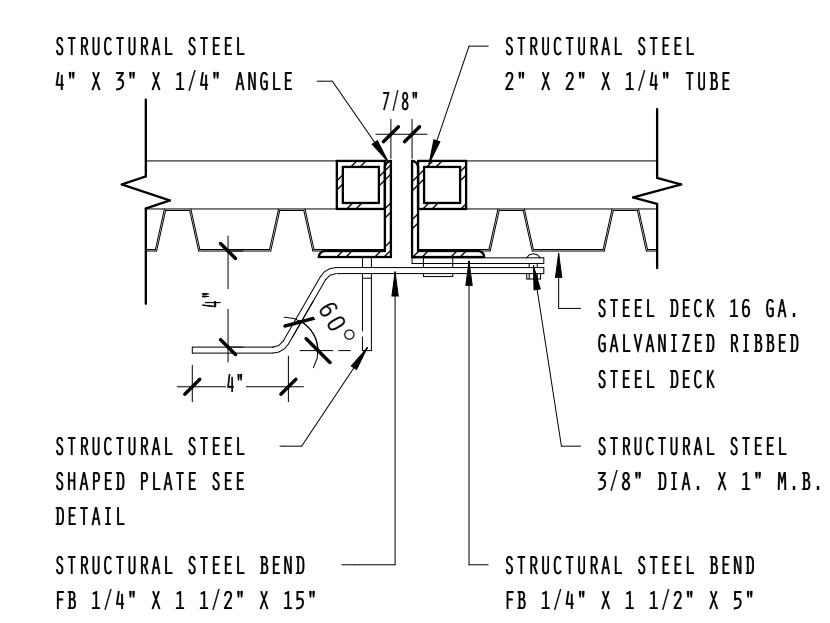
**AS1.01**



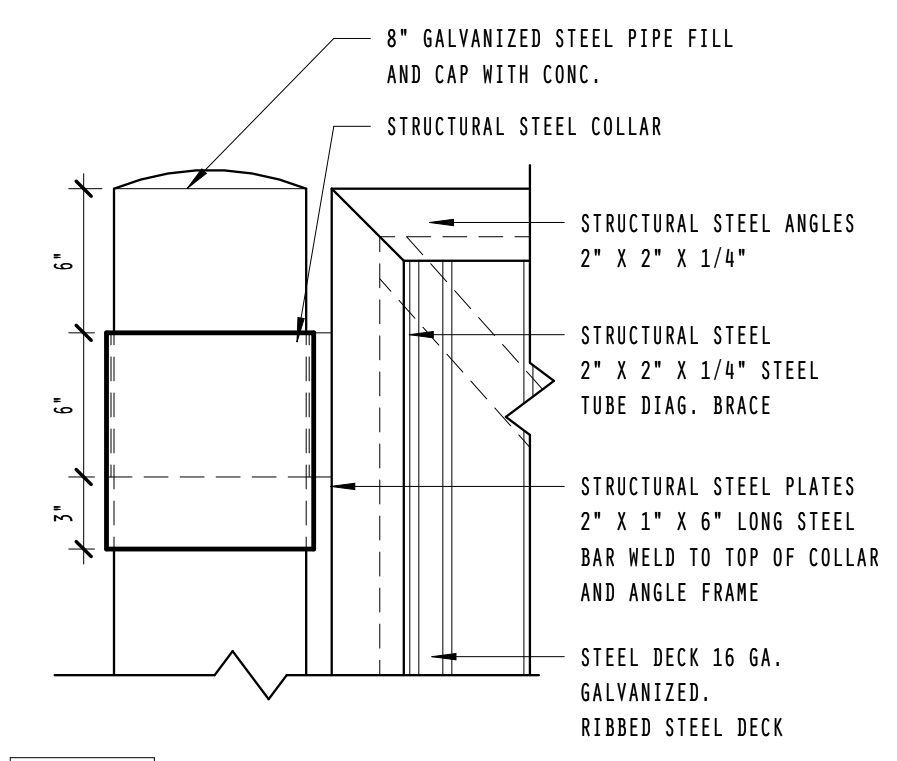
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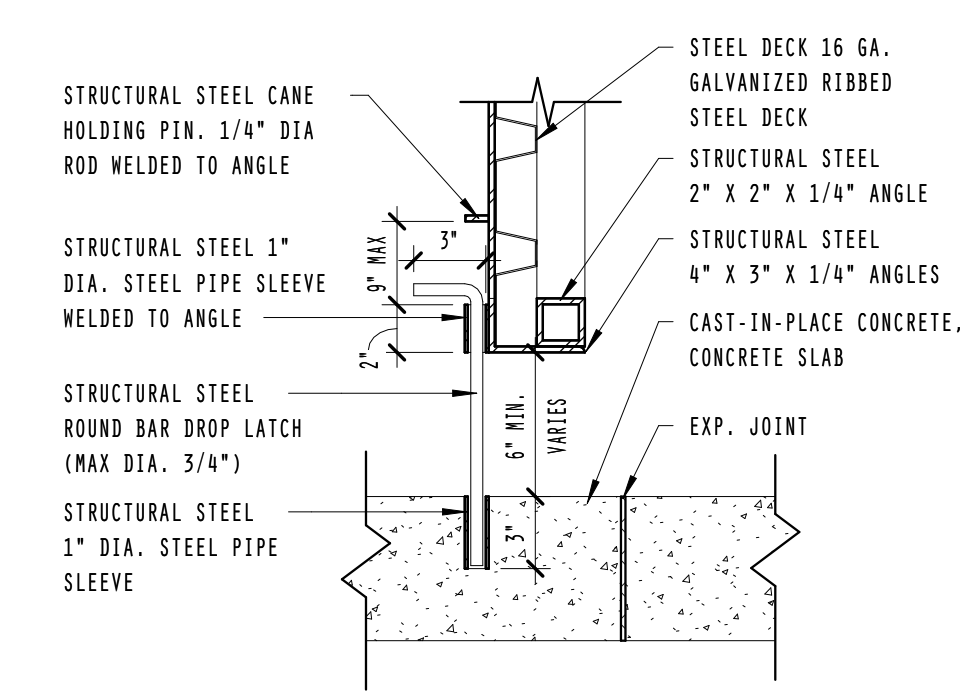
**8** BOLLARD SECTION ANnapolis LF  
N.T.S.



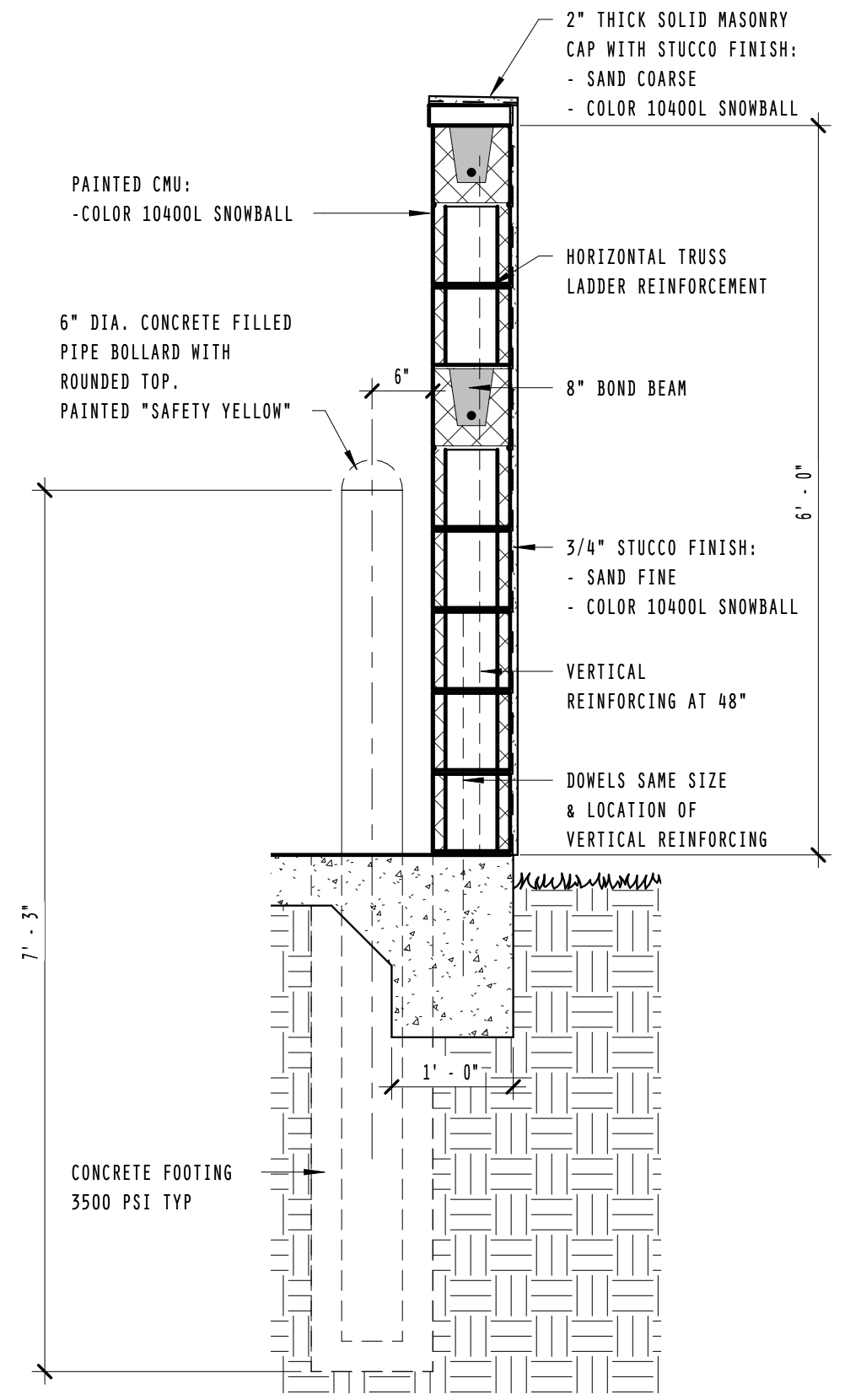
**7** LATCH PLAN DETAIL  
1 1/2" = 1'-0"



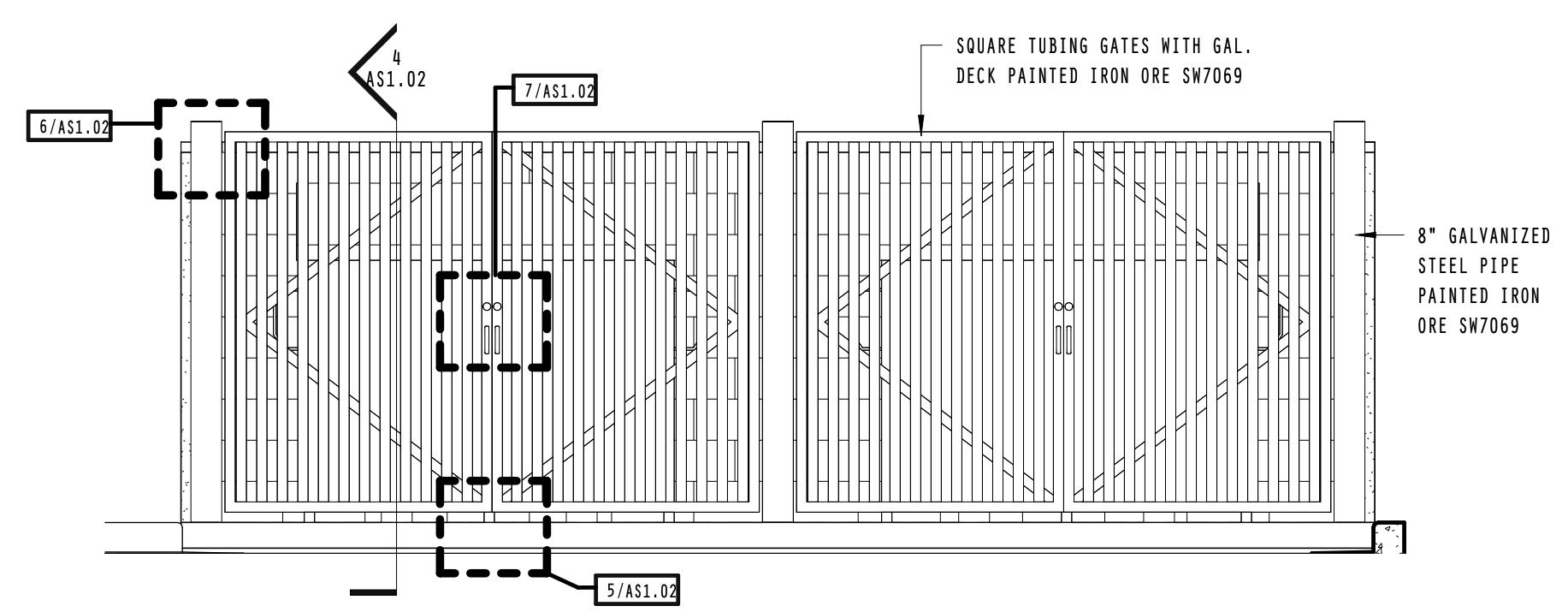
**6** POST DETAIL  
1 1/2" = 1'-0"



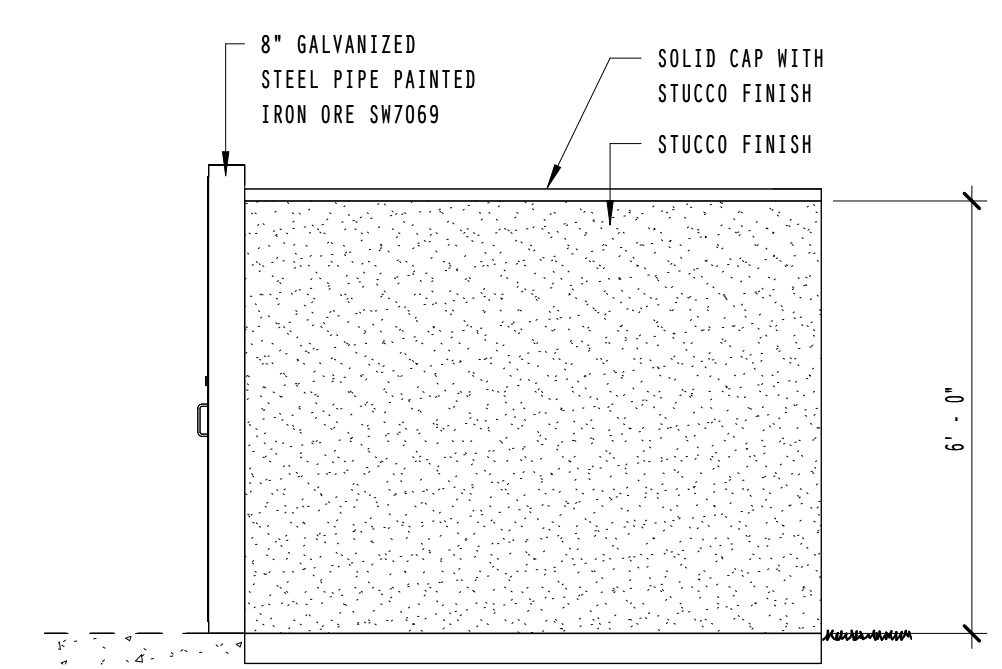
**5** DROP BAR DETAIL  
1 1/2" = 1'-0"



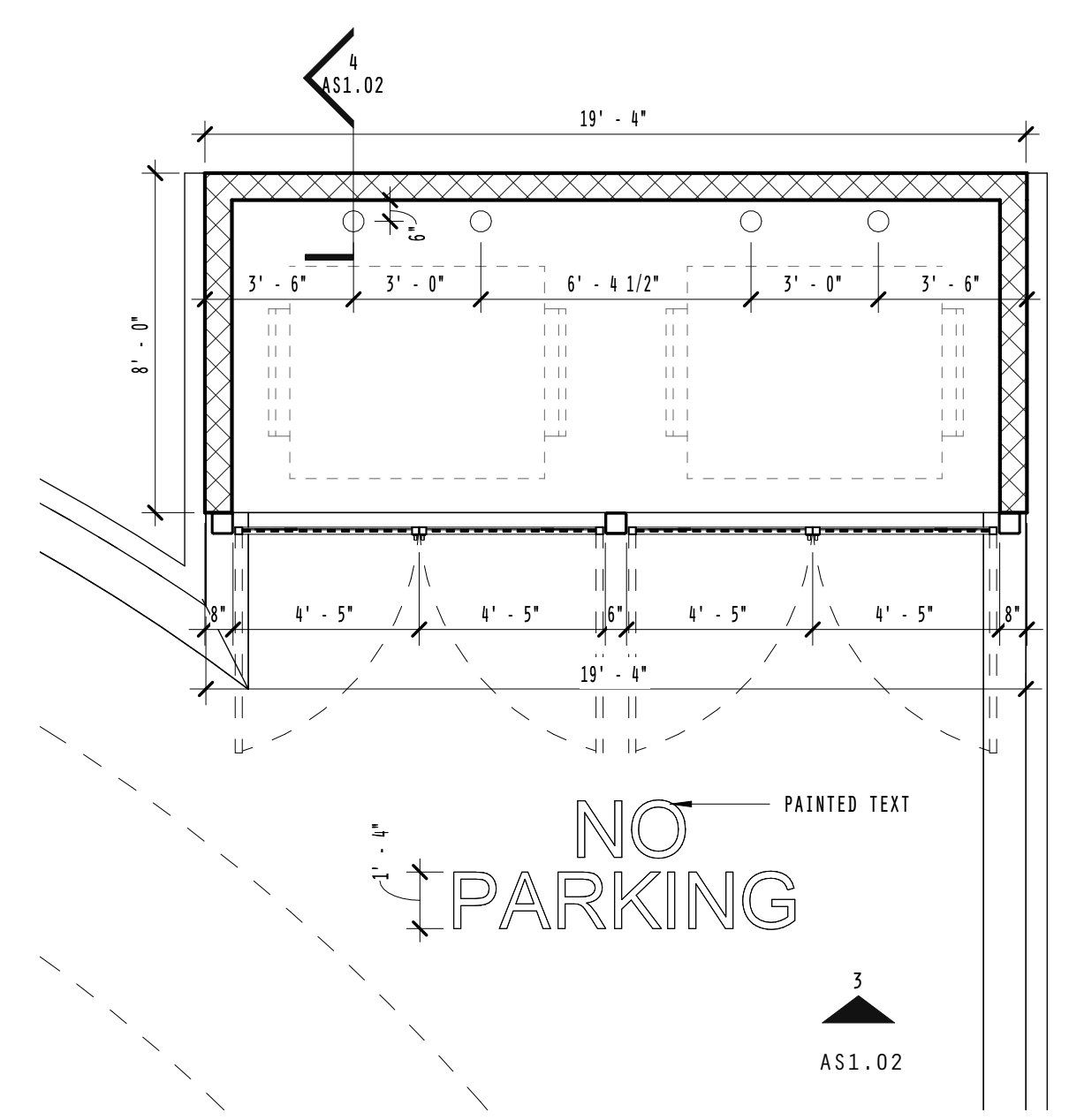
**4** WALL SECTION  
3/4" = 1'-0"



**3** SOUTH ELE.  
3/8" = 1'-0"



**2** ELEVATION  
3/8" = 1'-0"



**1** SITE PLAN - ENLARGED  
1/4" = 1'-0"

1 PERMIT SET 06/05/23  
No. DESCRIPTION DATE

06.05.23  
SAN GARCIA ARCHITECT  
1200 AUBURN AVE., SUITE 280  
MCALLEN, TX 78504  
(956) 631-8327  
INFO@SANGARCIAARCHITECT.COM

**KHIT CHIROPRACTIC WELLNESS**

6151 E. POST ROAD, KYLE, TX 78640  
2022-008 06.05.23

DETAILS

**AS1.02**

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**SHEET KEYNOTES**

- 1. WALLS TO BOTTOM OF DECKING

**PROJECT CODE REVIEW & DESCRIPTION**

KHIT CHIROPRACTIC WELLNESS WILL CONSIST OF A NEW BUILDING WITH TWO SUITES, INCLUDING AN EMPTY COMMERCIAL SUITE TO BE FINISHED OUT BY FUTURE TENANT. THE PROJECT WILL CONSIST OF 1) NO DEMOLITION WORK AT EXISTING PROPERTY, 2) CONSTRUCTION OF NEW FACILITY FROM THE GROUND UP.

TOTAL NEW CONSTRUCTION IS 5,580 GROSS SQUARE FEET.

**CODE ANALYSIS**

APPLICABLE BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE  
 \*CODE ANALYSIS SEPARATED PER MAJOR BUILDING COMPONENT

**1. USE AND OCCUPANCY CLASSIFICATION**

A. SECTION 304.1 - BUSINESS GROUP B

**2. GENERAL BUILDING HEIGHTS AND AREAS**

A. TABLE 504.3 - ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE  
 I. OCCUPANCY CLASSIFICATION: B, SPRINKLERED  
 II. CONSTRUCTION TYPE: TYPE II-B  
 III. ALLOWABLE HEIGHT: 75 FEET (BUILDING COMPLIES)

B. TABLE 506.2 - ALLOWABLE AREA FACTOR IN SQUARE FEET  
 I. OCCUPANCY CLASSIFICATION: B, SINGLE STORY SPRINKLERED  
 II. CONSTRUCTION TYPE: TYPE II-B  
 III. ALLOWABLE AREA: 92,000 SQUARE FEET

**3. TYPE OF CONSTRUCTION**

A. SECTION 602 AND TABLE 601: CONSTRUCTION CLASSIFICATION - TYPE II-B

**4. MEANS OF EGRESS**

A. TABLE 1004.1.2 - MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT  
 I. BUSINESS AREAS = 150 GROSS  
 3,094 SQUARE FEET / 150 = 21 OCCUPANTS

B. SECTION 1005 - MEANS OF EGRESS SIZING  
 I. 1005.3.2 OTHER EGRESS COMPONENTS (DOORS), WIDTH FACTOR = 0.15 INCHES PER OCCUPANT.  
 21 OCCUPANTS X 0.15 = 3.1 INCHES  
 \* THEREFORE A SINGLE 3'-0" WIDE DOOR SHALL SUFFICE, HOWEVER, 4 DOORS ARE PROVIDED.

**5. PLUMBING SYSTEMS**

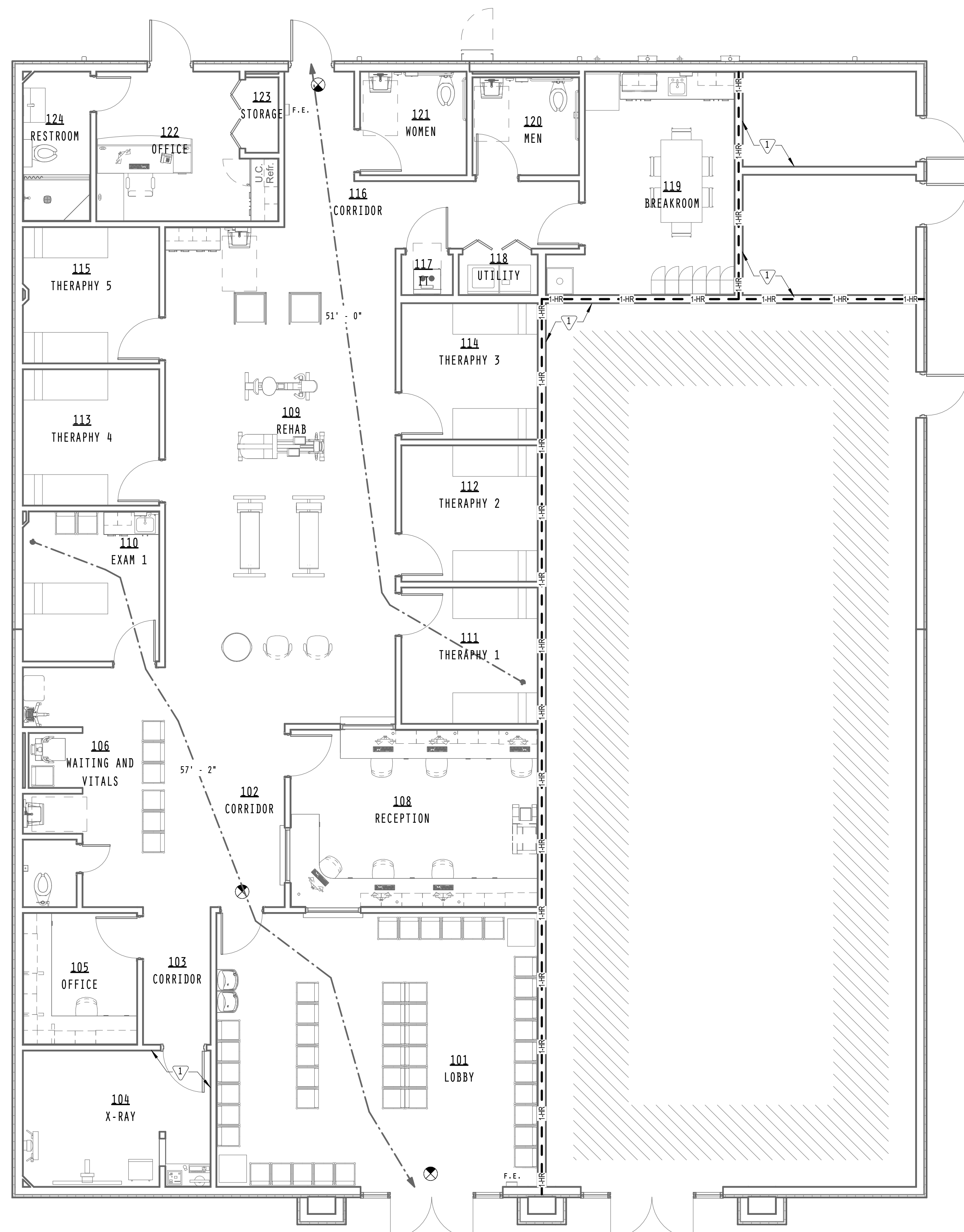
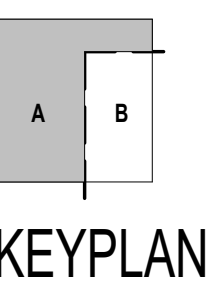
A. TABLE 2902.1 - MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES (B - BUSINESS CLASSIFICATION) FOR 31 MEN & 31 WOMEN  
 I. WATER CLOSETS: 1 PER 25 FOR THE FIRST 50, 1 PER 50 FOR THE REMAINDER EXCEEDING 50:  
 11 MALE / 1 FEMALE  
 II. LAVATORIES: 1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80:  
 1 MALE / 1 FEMALE  
 III. DRINKING FOUNTAINS: 1 PER 100: 1 REQUIRED  
 IV. SERVICE SINK: 1 REQUIRED

**LEGEND**

- EXIT SIGN, REFER MEP DRAWINGS FOR SPECIFICATIONS
- FE FIRE EXTINGUISHER
- EGRESS TRAVEL
- 1 HOUR RATING, WALLS TO DECK

BUILDING AREA TABLE	
AREA NAME	USABLE AREA
SUITE B	1,855 SF
SUITE A	3,479 SF
MECH	246 SF
<b>GROSS TOTAL:</b>	<b>5,580 SF</b>

ROOM AREA SCHEDULE		
ROOM NUMBER	ROOM NAME	AREA
101	LOBBY	464 SF
102	CORRIDOR	116 SF
103	CORRIDOR	49 SF
104	X-RAY	133 SF
105	OFFICE	79 SF
106	WAITING AND VITALS	153 SF
107	WC	19 SF
108	RECEPTION	231 SF
109	REHAB	604 SF
110	EXAM 1	107 SF
111	THERAPY 1	98 SF
112	THERAPY 2	98 SF
113	THERAPY 4	98 SF
114	THERAPY 3	98 SF
115	THERAPY 5	97 SF
116	CORRIDOR	133 SF
117	IT	11 SF
118	UTILITY	17 SF
119	BREAKROOM	185 SF
120	MEN	55 SF
121	WOMEN	58 SF
122	OFFICE	126 SF
123	STORAGE	13 SF
124	RESTROOM	51 SF
125	ELECTRICAL	87 SF
126	RISER	110 SF
<b>NET TOTAL:</b>		<b>3,289 SF</b>



**1** LIFE SAFETY PLAN  
 3/16" = 1'-0"

**A1.01**

1	PERMIT SET	06/05/23
No.	DESCRIPTION	DATE

06.05.23  
 SAN GARCIA ARCHITECT  
 1200 AUBURN AVE., SUITE 280  
 McALLEN, TX 78504  
 (956) 631-8327  
 INFO@SANGARCIAARCHITECT.COM

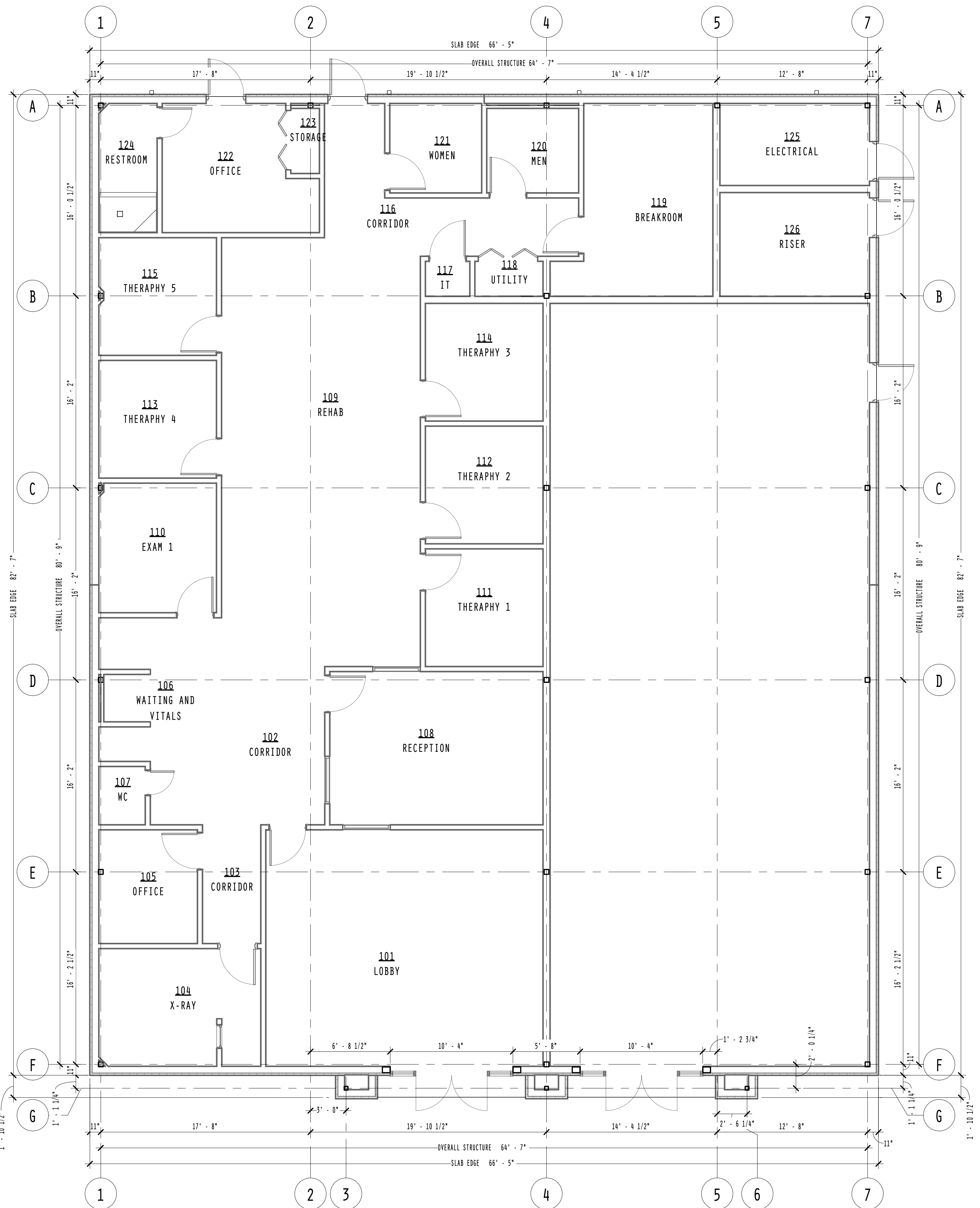
**KHIT CHIROPRACTIC WELLNESS**

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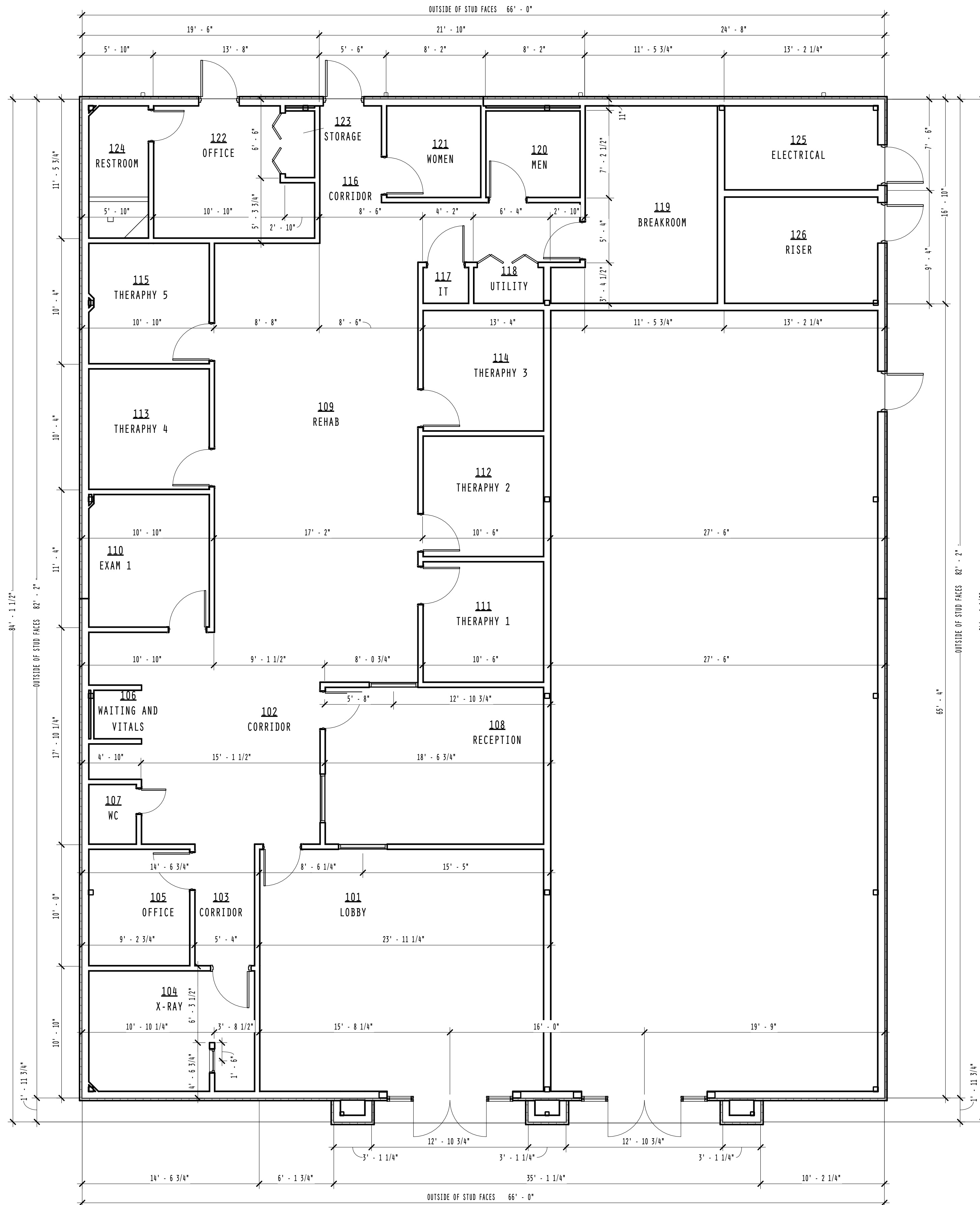
2022-008	06.05.23
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LIFE SAFETY PLAN

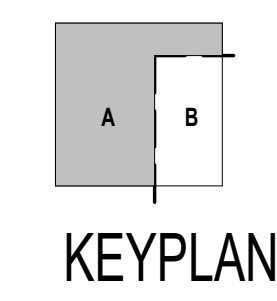




**2** DIMENSION PLAN GRID  
3/16" = 1'-0"



**1** DIMENSION PLAN  
3/16" = 1'-0"



1	PERMIT SET	06/05/23
No.	DESCRIPTION	DATE

06.05.23

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**KHIT CHIROPRACTIC WELLNESS**

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2022-008 06.05.23

**DIMENSION CONTROL PLAN**

A1.02



**SHEET PLAN KEYNOTES**

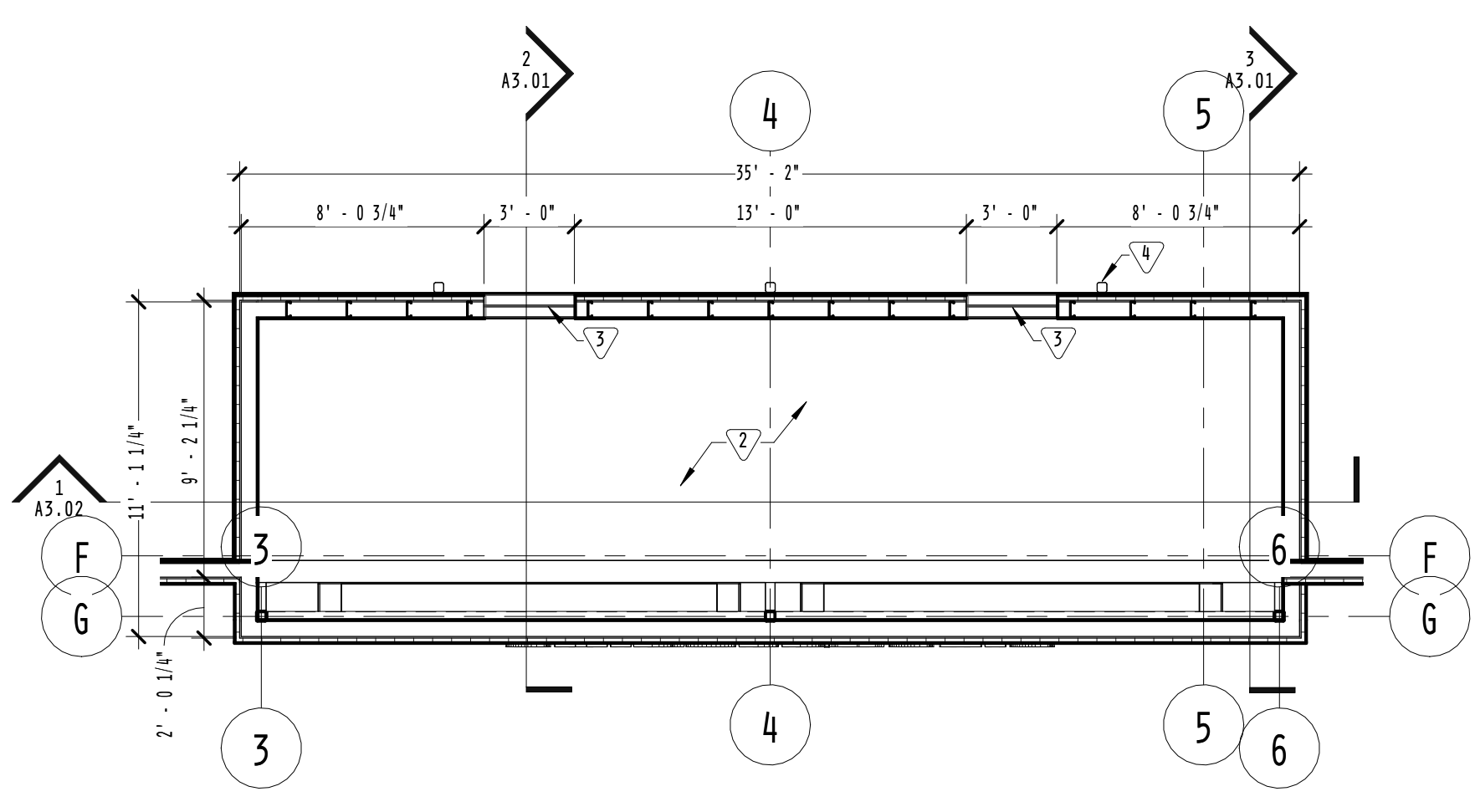
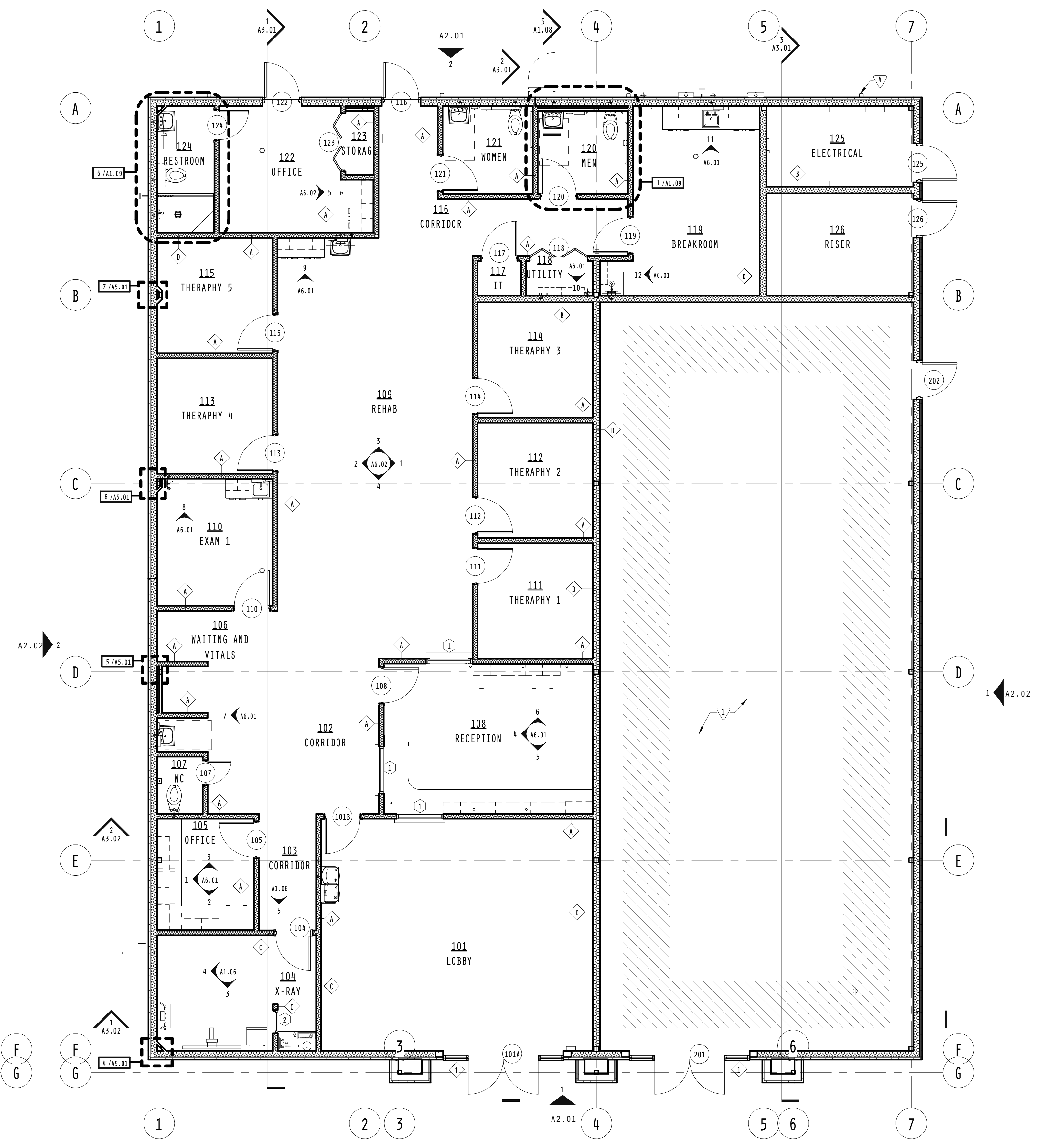
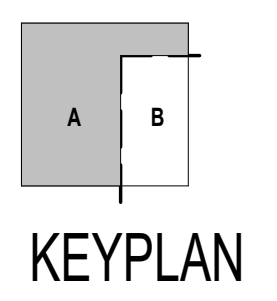
- EMPTY SHELL SPACE, TO BE FINISHED BY FUTURE TENANT
- UNOCCUPIED PLENUM SPACE
- LOUVERS BY MEP DRAWINGS
- ALUMINUM DOWNSPOUTS

**GENERAL NOTES**

- THESE DRAWINGS ARE INTENDED TO ILLUSTRATE THE LOCATIONS OF ALL NEW CONSTRUCTION, BUT ARE NOT TO BE SCALED. THE DIMENSIONS SHALL SUPERSEDE THE SCALE.
- THE GENERAL CONTRACTOR IS REQUIRED TO VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. ALL INFORMATION IN REGARDS TO THE EXISTING FIELD CONDITIONS, MATERIALS, AND METHODS OF CONSTRUCTION, DIMENSIONS, AND/OR DEFLECTIONS SHALL BE OBSERVED, NOTED, AND VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO ANY CONSTRUCTION OR FABRICATION. ANY AND ALL INFORMATION GATHERED THAT IS IN CONFLICT WITH THE CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH ANY RELATED WORK.
- FINISH FLOOR ELEVATIONS ARE 100'-0" AND ARE TO TOP OF CONCRETE UNLESS OTHERWISE NOTED OR SPECIFIED.
- PROVIDE A 4" JAMB AT ALL DOORS LOCATED ON WALLS TYP., U.N.O.
- PAINT, CAULK AND SEAL AT ALL DISSIMILAR WALL MATERIALS INTERSECTIONS.
- ALL ANGLES ARE 0, 45, OR 90 DEGREES UNLESS OTHERWISE SPECIFIED. ALL EXPOSED WALL CORNERS SHALL HAVE BULLNOSE EDGES AT CMU WALLS OR DRYWALLS TYP.
- WHERE MATERIALS ARE APPLIED TO OR ARE IN DIRECT CONTACT WITH WORK INSTALLED BY ANOTHER SUBCONTRACTOR, COMMENCEMENT OF WORK IMPLIES ACCEPTANCE OF THE SUBSTRATE AS SUITABLE FOR THE APPLICATION INTENDED.
- REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR THE DETAILED DESIGN OF STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS.
- ALL CONSTRUCTION AND EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.
- DIMENSIONS AT EXTERIOR OF BUILDING ARE TO EDGE OF SLAB. INTERIOR DIMENSIONS ARE TO FACE OF METAL STUDS.
- GENERAL CONTRACTOR WILL PROVIDE DUMPSTER FOR CONSTRUCTION DEBRIS. LOCATE PER OWNER'S DIRECTION.

**WALL TYPES**

- A** 3 5/8" METAL STUD CORE  
SOUND BATT INSULATION  
5/8" GYPSUM BOARD (EACH SIDE)
- B** 5/8" GYPSUM BOARD (EACH SIDE)  
6" METAL STUD CORE  
SOUND BATT INSULATION  
5/8" GYPSUM BOARD (EACH SIDE)
- C** 3 5/8" METAL STUD CORE  
SOUND BATT INSULATION  
5/8" GYPSUM BOARD  
LEAD LINED 5/8" GYPSUM BOARD
- D** 1-HR FIRE WALL FLOOR TO DECK PARTITION  
5/8" FIRECORE TYPE 'X' GYPSUM BOARD  
6" METAL STUD CORE  
SOUND BATT INSULATION  
5/8" FIRECORE TYPE 'X' GYPSUM BOARD



**3** FLOOR PLAN AT 18'-6"  
3/16" = 1'-0"

**1** KEYNOTED PLAN  
3/16" = 1'-0"

1	PERMIT SET	06/05/23
No.	DESCRIPTION	DATE

06.05.23

**SAN GARCIA ARCHITECT**  
1200 AUBURN AVE., SUITE 280  
MCALLEN, TX 78504  
(956) 631-8327  
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**KHIT CHIROPRACTIC WELLNESS**

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2022-008 06.05.23  
ANNOTATED FLOOR PLAN

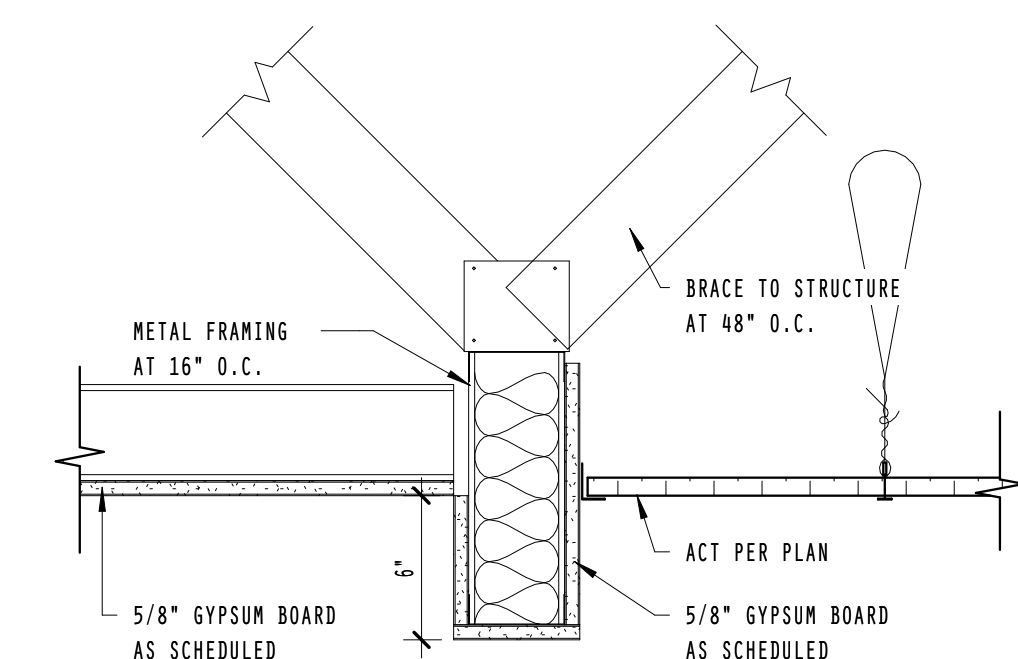
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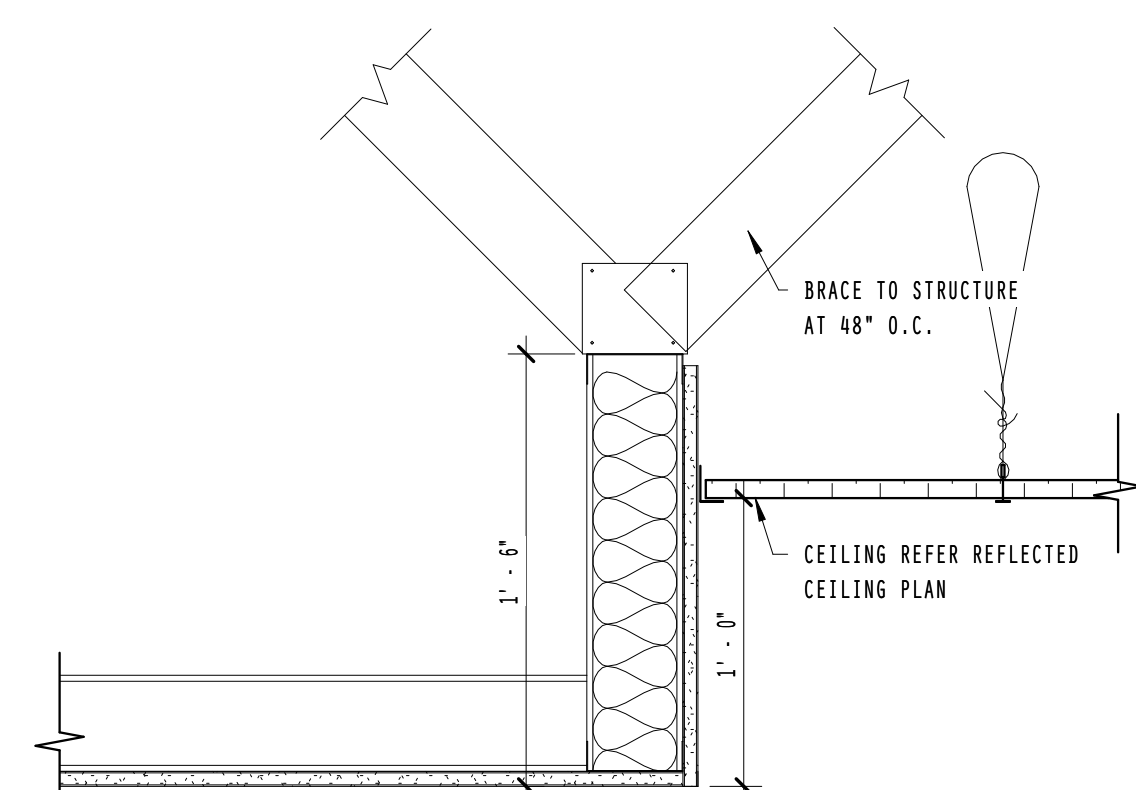


RCP KEYNOTES

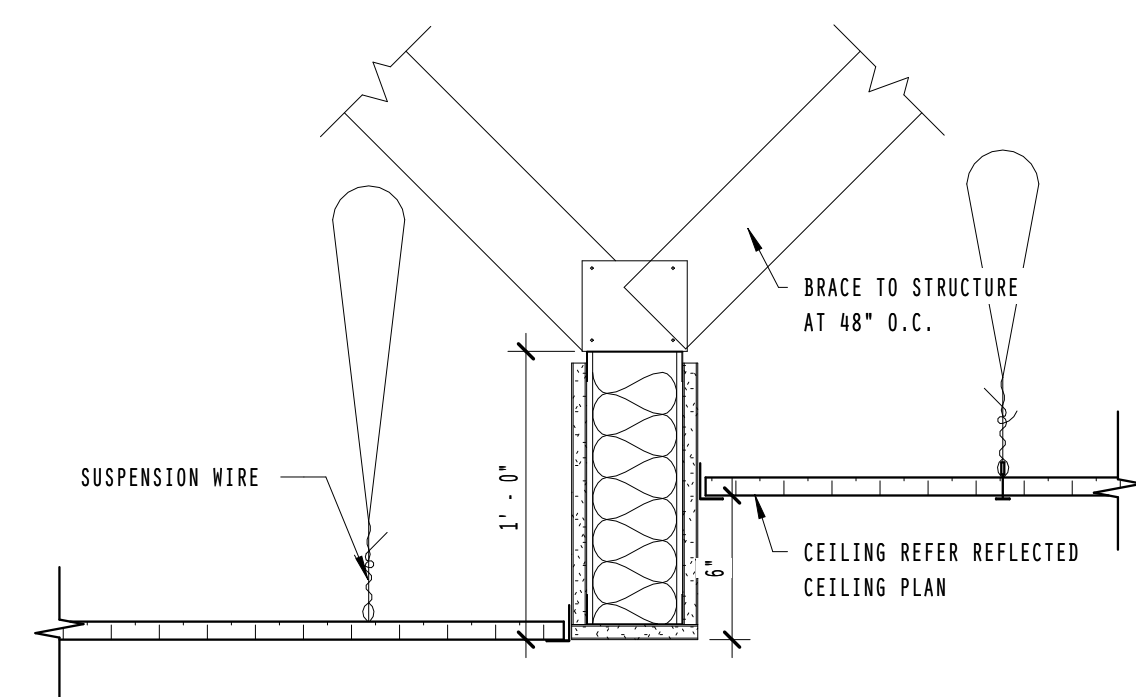
1. ACT TILE AS SPECIFIED
2. GYPSUM BOARD CEILING AS SPECIFIED
3. LINEAR RECESSED LIGHT FIXTURE REFER MEP DRAWINGS
4. LINEAR AIR DEVICES, REFER MEP DRAWINGS
5. EXPOSED STEEL JOIST REFER STRUCTURAL DRAWINGS



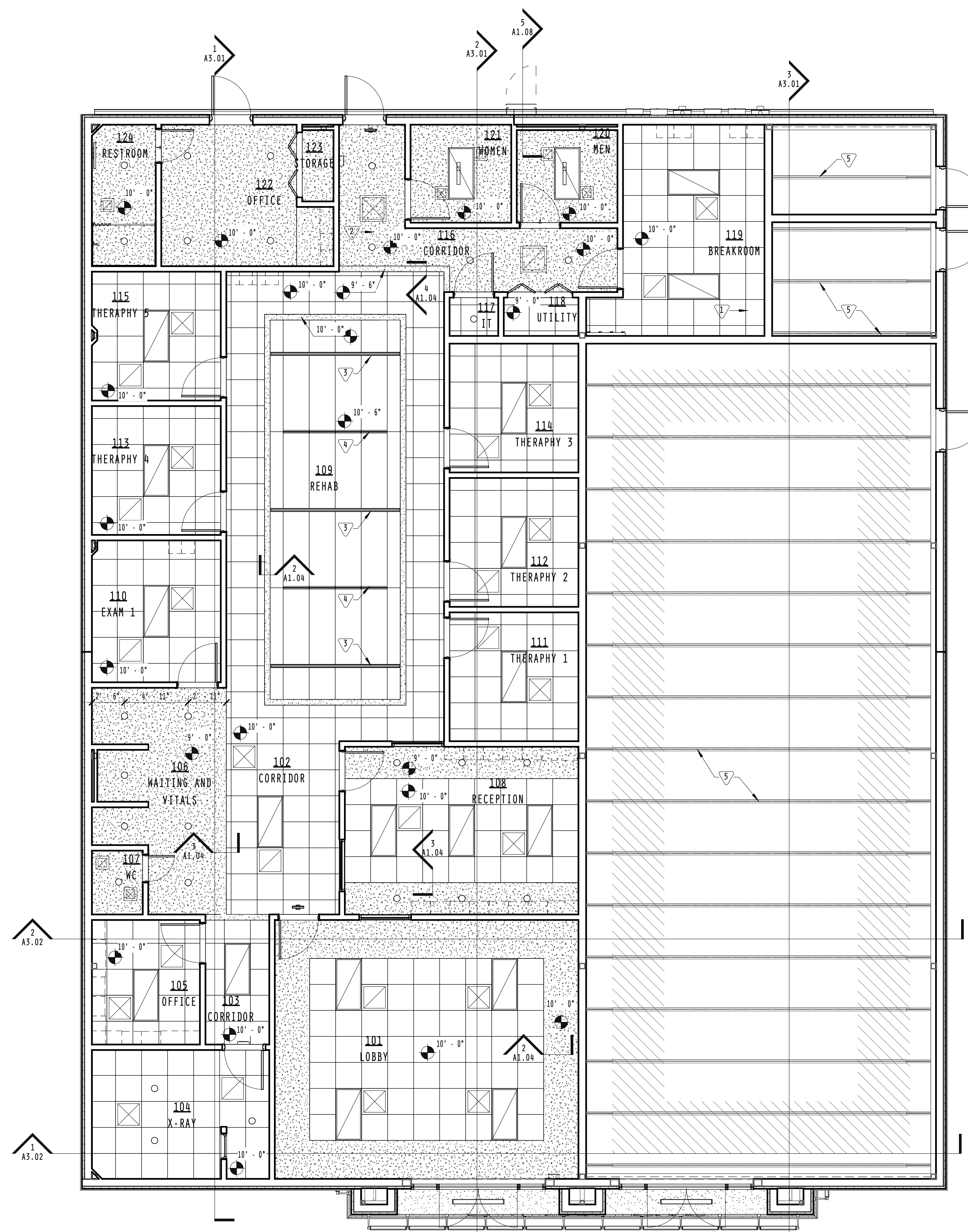
**4** SECTION DETAIL  
1 1/2" = 1'-0"



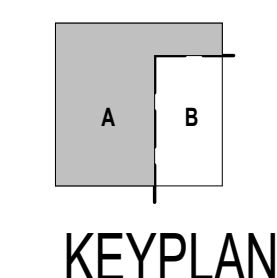
**3** SECTION DETAIL  
1 1/2" = 1'-0"



**2** SECTION DETAIL  
1 1/2" = 1'-0"



**1** REFLECTED CEILING PLAN  
3/16" = 1'-0"



1 PERMIT SET 06/05/23  
No. DESCRIPTION DATE

06.05.23  
SAN GARCIA ARCHITECT  
1200 AUBURN AVE., SUITE 280  
MCALLEN, TX 78504  
(956) 631-8327  
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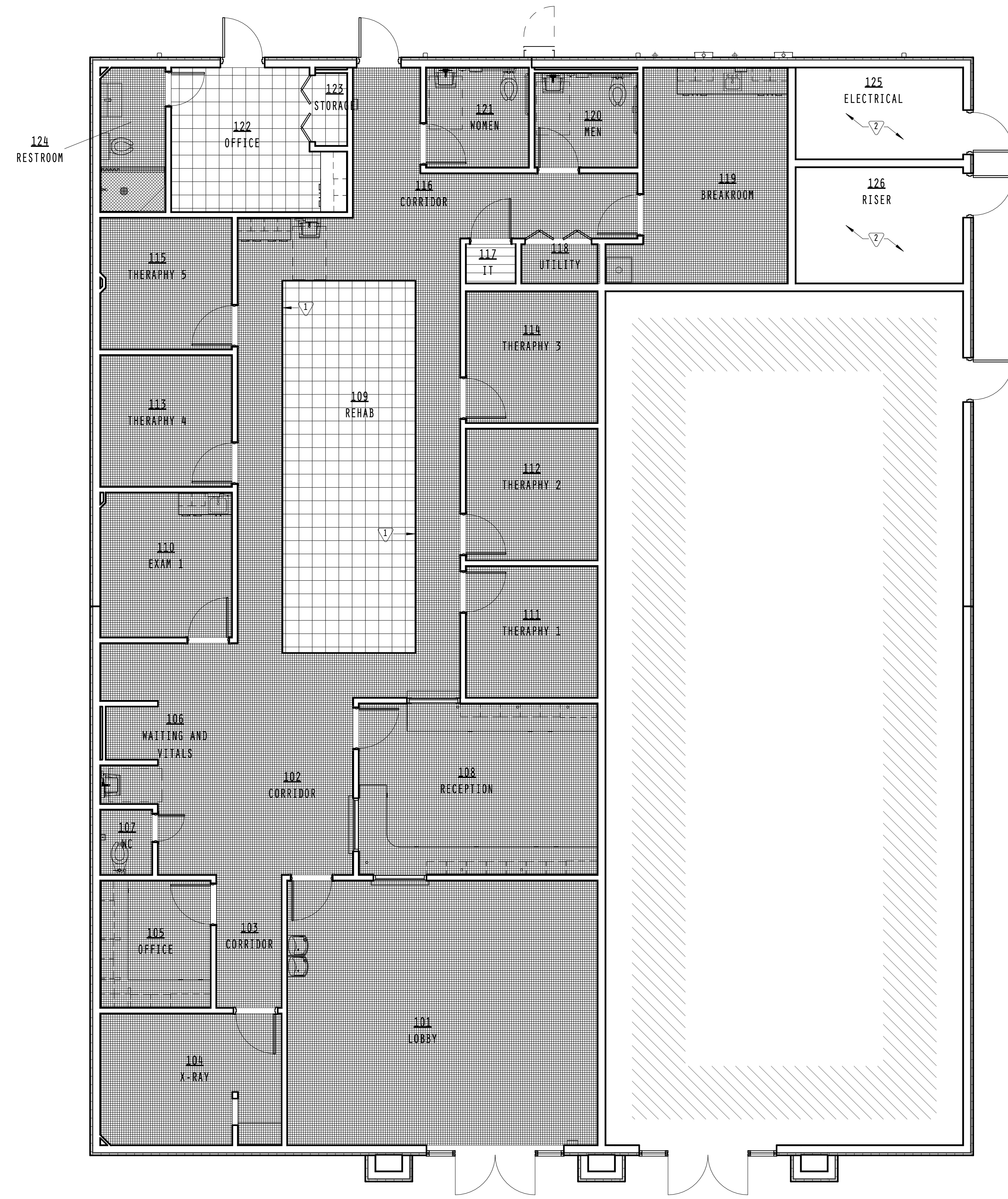
**KHIT CHIROPRACTIC WELLNESS**

6151 E. POST ROAD, KYLE, TX 78640  
2022-008 06.05.23  
REFLECTED CEILING PLAN

**A1.04**

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**GENERAL NOTES**

1. PROVIDE FLOOR TRANSITIONS EDGE BETWEEN CARPET AND RESILIENT PLANK
2. POLISH CONCRETE FINISH

**FLOOR FINISH LEGEND**

- CARPET TILE
- RESILIENT PLANK
- CERAMIC TILE
- STATIC CONTROL FLOORING

**FLOOR FINISH SCHEDULE**

- RESILIENT PLANK 5.96" X 48"
  - PATCRAFT
  - TIMBER GROVE 11
  - SHADY GROVE - V3 05012
- CARPET TILE 24" X 24" (1/4 TURN)
  - PATCRAFT
  - RATIONAL
  - LOGIC 10460 METHOD 00500
- SDT TILE 12" X 12"
  - ARMSTRONG
  - EXCELON SDT TILE
  - BEACH 51960
- CERAMIC TILE
  - SAN GIORGIO
  - MARBLE ART 1.51w HEXAGON CERAMIC
  - MOSAIC 12x12
  - TILE & GROUT COLOR : WHITE

**BASE MATERIAL LEGEND**

- JOHNSONITE
- 262 DRIZZLE CG

**PAINT SELECTION LEGEND**

- FIELD COLOR - GHOSTED SW 9545
- DOORS AND TRIM - DUSTBLU SW 9161

**COUNTER SURFACE SELECTION**

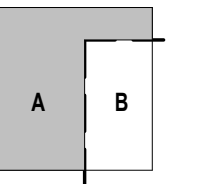
- SOLID SURFACE
- WILSONART
- GOLD GLITZ 910BCS

**MILLWORK FINISHES**

- FIELD COLOR - DUSTBLU SW 9161

**FLOOR TRANSITION**

- JOHNSITE METAL EDGE
- MODEL MET02
- STEEL 179



**KEYPLAN**

1	PERMIT SET	06/05/23
No.	DESCRIPTION	DATE

06.05.23

**S** SAN GARCIA ARCHITECT  
 1200 AUBURN AVE., SUITE 280  
 McALLEN, TX 78504  
 (956) 631 - 8327  
 INFO@SANGARCIAARCHITECT.COM

**KHIT CHIROPRACTIC WELLNESS**

6151 E. POST ROAD, KYLE, TX 78640

2022-008 06.05.23  
FINISH PLAN & PAINT

1 FINISH PLAN & PAINT  
3/16" = 1'-0"

**A1.05**

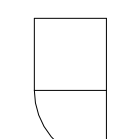

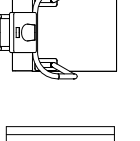
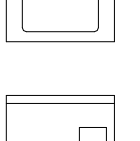
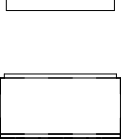
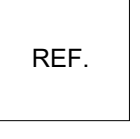
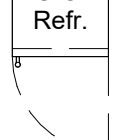
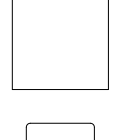
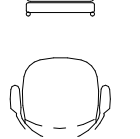
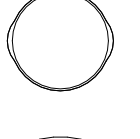
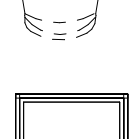
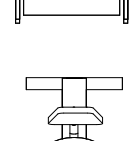
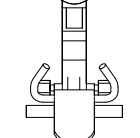
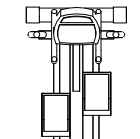
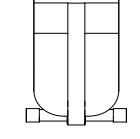
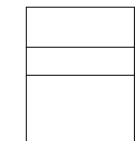
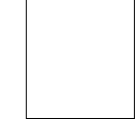
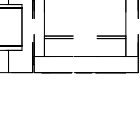
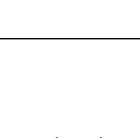

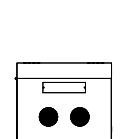


**FURNITURE & EQUIPMENT GENERAL NOTES**

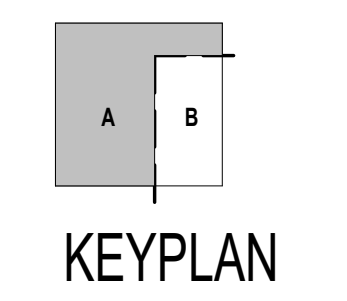
1. ALL APPLIANCES PROVIDED BY OWNER. INSTALLED BY G.C.
  2. FURNITURE SHOWN IS FOR COORDINATION ONLY.
  3. FURNITURE IS NOT IN CONTRACT OF CONSTRUCTION.
  4. CONTRACTOR TO PROVIDE CLEAR THERMOSTAT GUARDS WITH MATCHING KEYS AT ALL LOCATIONS. COORDINATE WITH MEP DRAWINGS.
  5. DATA LOCATIONS SHOWN ARE FOR COORDINATION, REFER MEP DRAWINGS.
- \*O.F.O.I. = OWNER FURNISHED OWNER INSTALLED  
 \*O.F.C.I. = OWNER FURNISHED CONTRACTOR INSTALLED  
 \*C.F.C.I. = CONTRACTOR FURNISHED CONTRACTOR INSTALLED

**SHEET KEYNOTES**

1. X-RAY "ON" WARNING LIGHT
2. J-BOX (A) 8"x8" MOUNTED 1' A.F.F.  
• 2" CONDUIT TO J-BOX (B)
3. CIRCUITE BREAKER,  
• 2" CONDUIT TO J-BOX (B)
4. PANIC BUTTON, SHUNT TRIP BREAKER
5. J-BOX (B) 8"x8" MOUNTED 1' A.F.F.  
• 3/4" CONDUIT TO J-BOX (E)  
• 2" CONDUIT TO J-BOX (A)  
• 2" CONDUIT TO CIRCUIT BREAKER
6. J-BOX (E) 2"x4"  
• 3/4" CONDUIT TO J-BOX (B)
7. POWER OUTLETS
8. CAT-6 NETWORK
9. TO BUILDING SERVICE PANEL. REFER MEP DRAWINGS
10. SOLID SURFACE COUNTER, PROVIDE 2" GROMMET AS INDICATED

-  12" X 12" 3 TIER LOCKER C.F.C.I.
-  MOBILE STAND (VITALS) O.F.O.I.
-  SCALE O.F.O.I.
-  DOMESTIC WASHER O.F.O.I.
-  DOMESTIC DRYER O.F.O.I.
-  MICROWAVE O.F.O.I.
-  DOMESTIC REF O.F.O.I.
-  UNDERCOUNTER REF O.F.O.I.
-  MAGAZINE TABLE O.F.O.I.
-  WAITING CHAIR O.F.O.I.
-  THERAPY CHAIR O.F.O.I.
-  THERAPY BALL O.F.O.I.
-  GENERIC ADMIN CHAIR O.F.O.I.
-  VIBRATION PLATFORM O.F.O.I.
-  EXERCISE BIKE O.F.O.I.
-  ELLIPTICAL MACHINE O.F.O.I.
-  EXAM TABLE O.F.O.I.
-  OFFICE COPIER O.F.O.I.
-  ADJUSTABLE BENCH O.F.O.I.
-  DINING TABLE SET O.F.O.I.
-  WALL MOUNTED IT RACK O.F.O.I.

FURNITURE & EQUIPMENT LIST	
ITEM	QUANTITY
3 TIER LOCKERS	6
ADJUSTABLE BENCH	2
DINING TABLE SET	1
DOMESTIC DRYER	1
DOMESTIC WASHER	1
ELLIPTICAL MACHINE	1
EXAM TABLE	11
EXECUTIVE CHAIR	1
EXERCISE BALL	1
EXERCISE BIKE	1
GENERIC ADMIN CHAIR	6
GENERIC OFFICE COPIER	1
MAGAZINE TABLE	2
MICROWAVE	1
MOBILE STAND (VITALS)	1
MOBILE TABLE	1
SCALE	1
THERAPY CHAIR	2
VIBRATION PLATFORM	2
WAITING CHAIR	52



1 PERMIT SET 06/05/23  
 No. DESCRIPTION DATE

06.05.23  
 SAN GARCIA ARCHITECT  
 1200 AUBURN AVE., SUITE 280  
 McALLEN, TX 78504  
 (956) 631-8327  
 INFO@SANGARCIAARCHITECT.COM

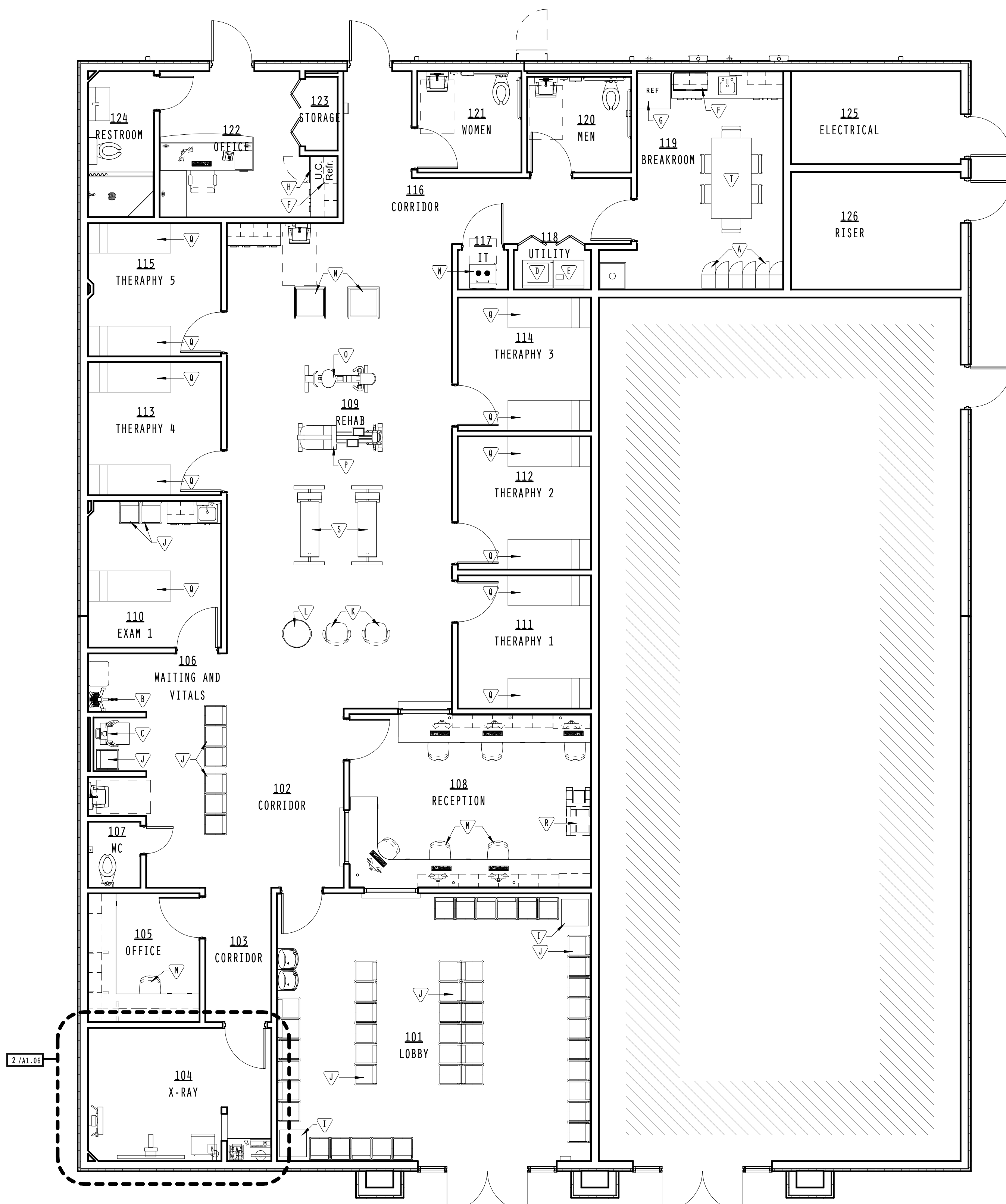
**KHIT CHIROPRACTIC WELLNESS**

6151 E. POST ROAD, KYLE, TX 78640  
 2022-008 06.05.23

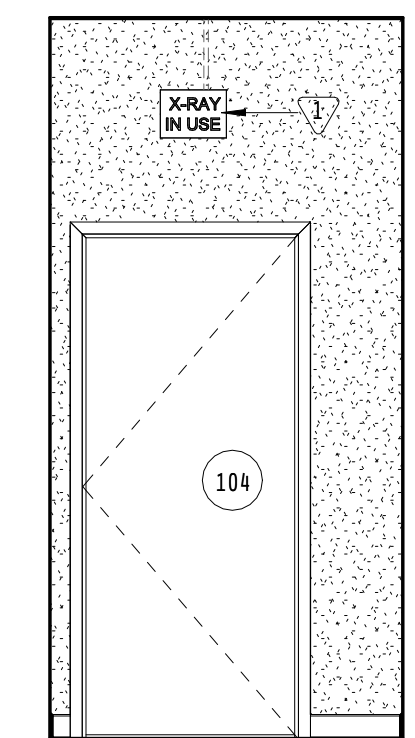
F.F.E. PLAN

**A1.06**

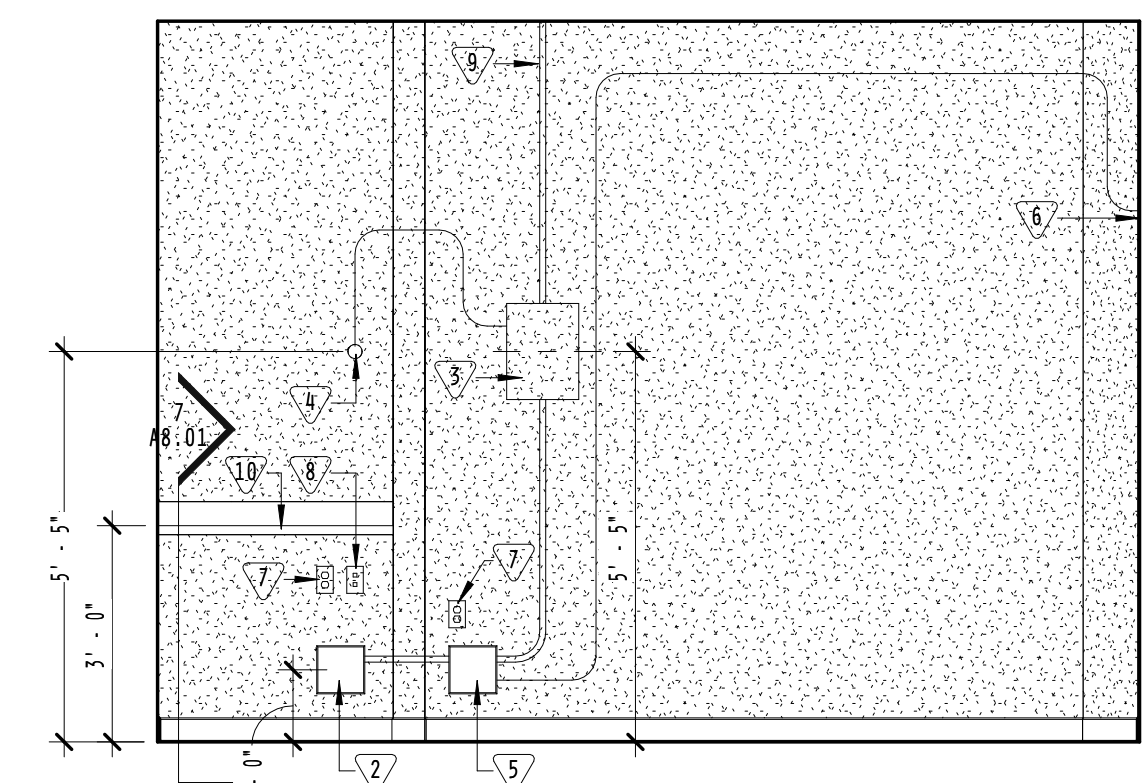
COPYRIGHT SAN GARCIA ARCHITECT, LLC - DO NOT REPRODUCE OR TRANSMIT WITHOUT WRITTEN CONSENT



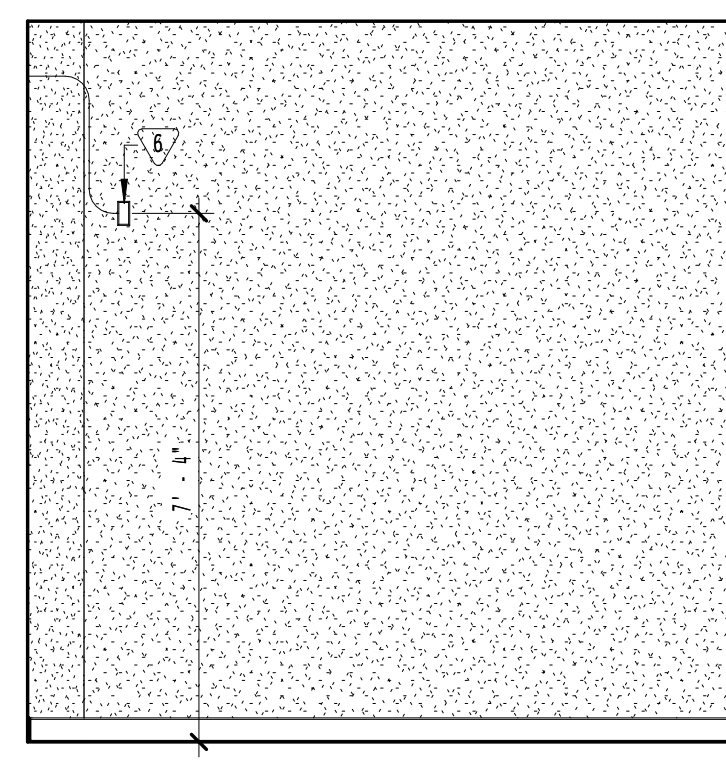
**1** FURNITURE AND EQUIPMENT PLAN  
 3/16" = 1'-0"



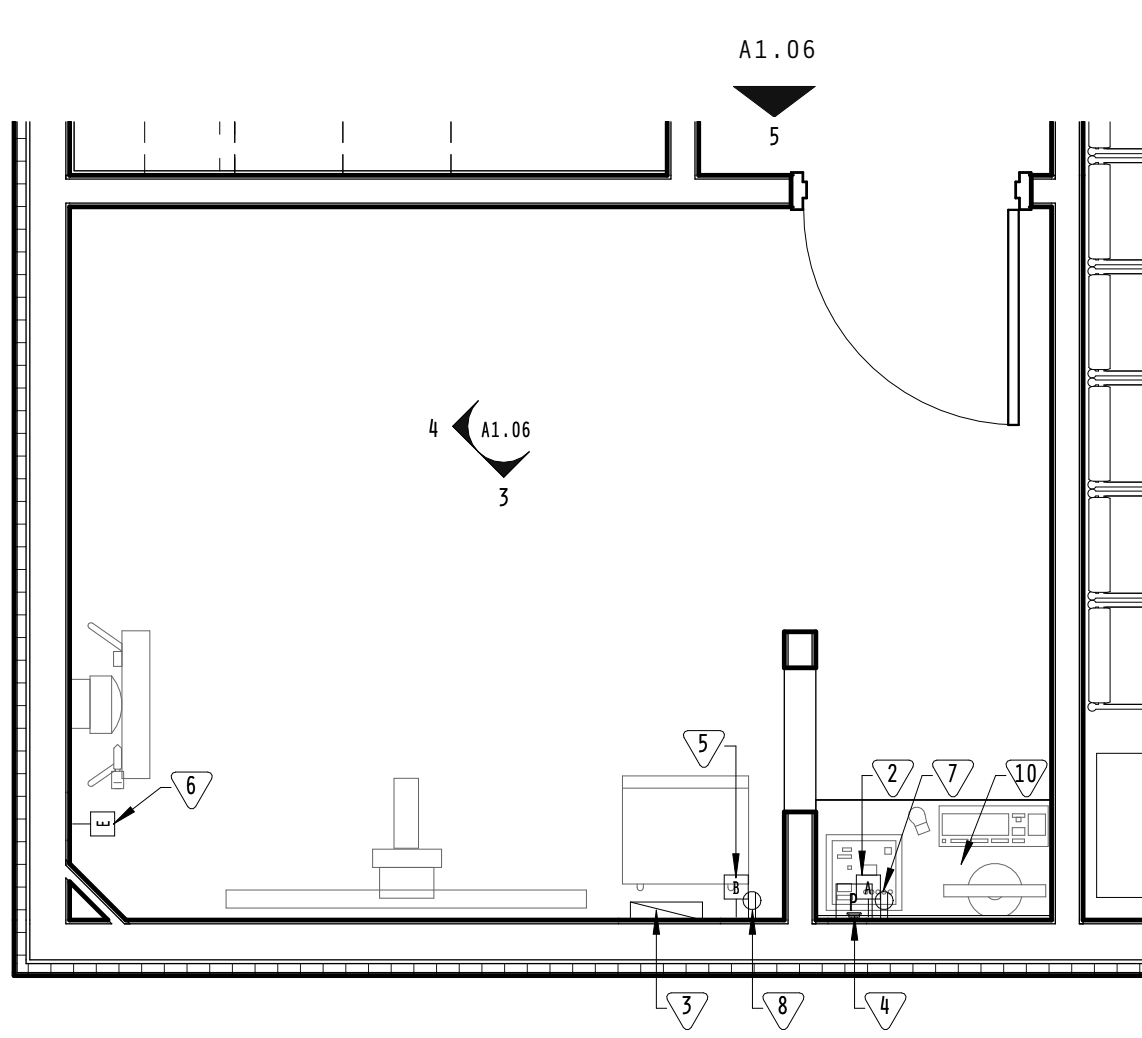
**5** ELEVATION  
 3/8" = 1'-0"



**3** ROUGH-IN DIAGRAM  
 3/8" = 1'-0"



**4** ROUGH-IN DIAGRAM  
 3/8" = 1'-0"



**2** ENLARGED PLAN  
 3/8" = 1'-0"

**FURNITURE & EQUIPMENT LEGEND**  
 1/4" = 1'-0"

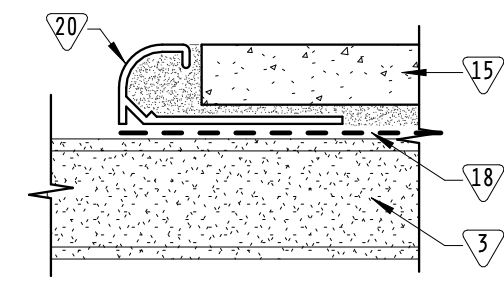




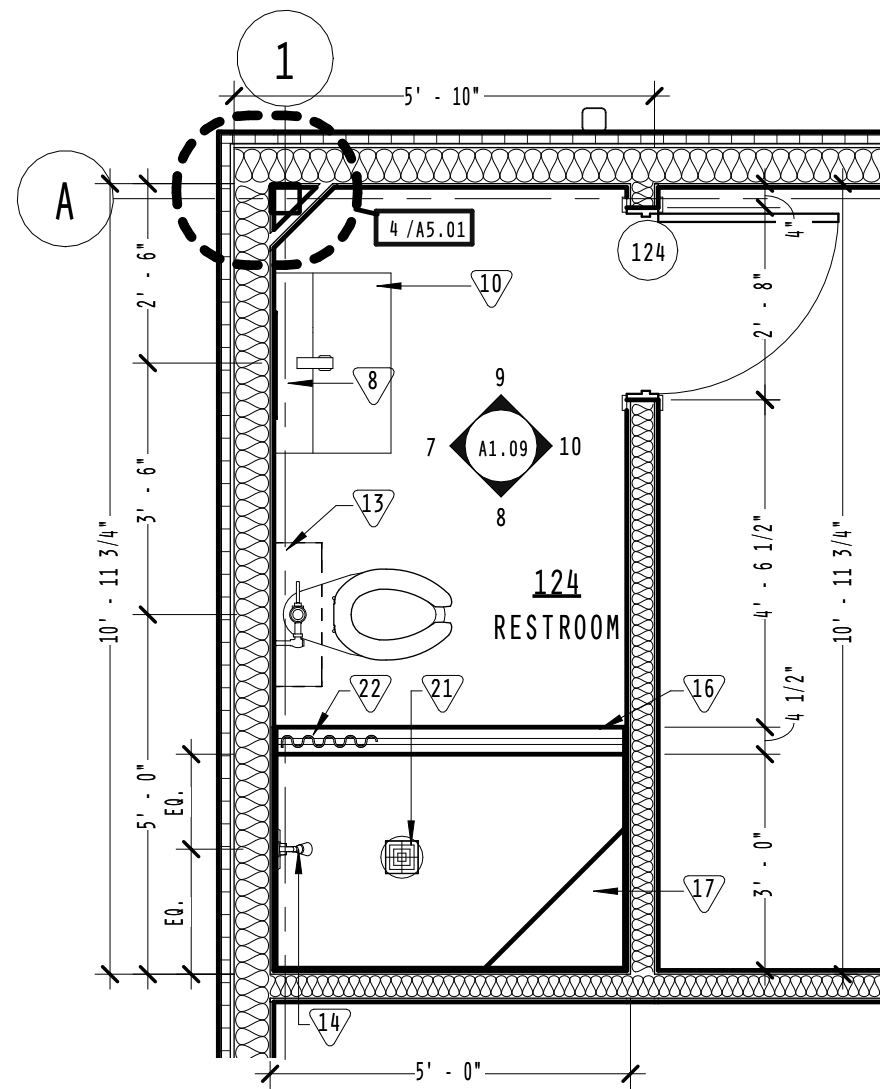


SHEET KEYNOTES

1. DOOR AS SCHEDULED
2. WALL BASE AS SCHEDULED
3. GYPSUM BOARD FINISH AS SCHEDULED
4. 36" GRAB BAR (TA-6)
5. 42" GRAB BAR (TA-5)
6. SINGLE ROBE HOOK (TA-8)
7. MIRROR (TA-7)
8. SOAP DISPENSER (TA-2)
9. PAPER TOWEL DISPENSER (TA-3)
10. LAVATORY REFER MEP DRAWINGS
11. TOILET PAPER DISPENSER (TA-1)
12. SANITARY NAPKIN DISPOSAL (TA-4)
13. STAINLESS STEEL WALL SHELF (TA-10)
14. SHOWER HEAD AND CONTROLS REFER MEP
15. WALL TILE, AS SCHEDULED
16. PREFABRICATED SHOWER CURB AS SPECIFIED
17. PREFABRICATED SHOWER BENCH (2'X2') AS SPECIFIED
18. BONDED WATERPROOFING AND VAPOR-RETARDANT MEMBRANE SYSTEM
19. PREFABRICATED SHOWER NICHE (12X20)
20. RONDEC BULLNOSE EDGE-PROTECTION TRIM, AS SPECIFIED (SATIN ALUMINUM)
21. POINT DRAIN WITH INTEGRATED BONDING FLANGE AS SPECIFIED (TA-13)
22. SHOWER ROD AND ACCESSORIES (TA-11)
23. VANITY LIGHT REFER MEP DRAWINGS
24. TOWEL BAR (TA-12)



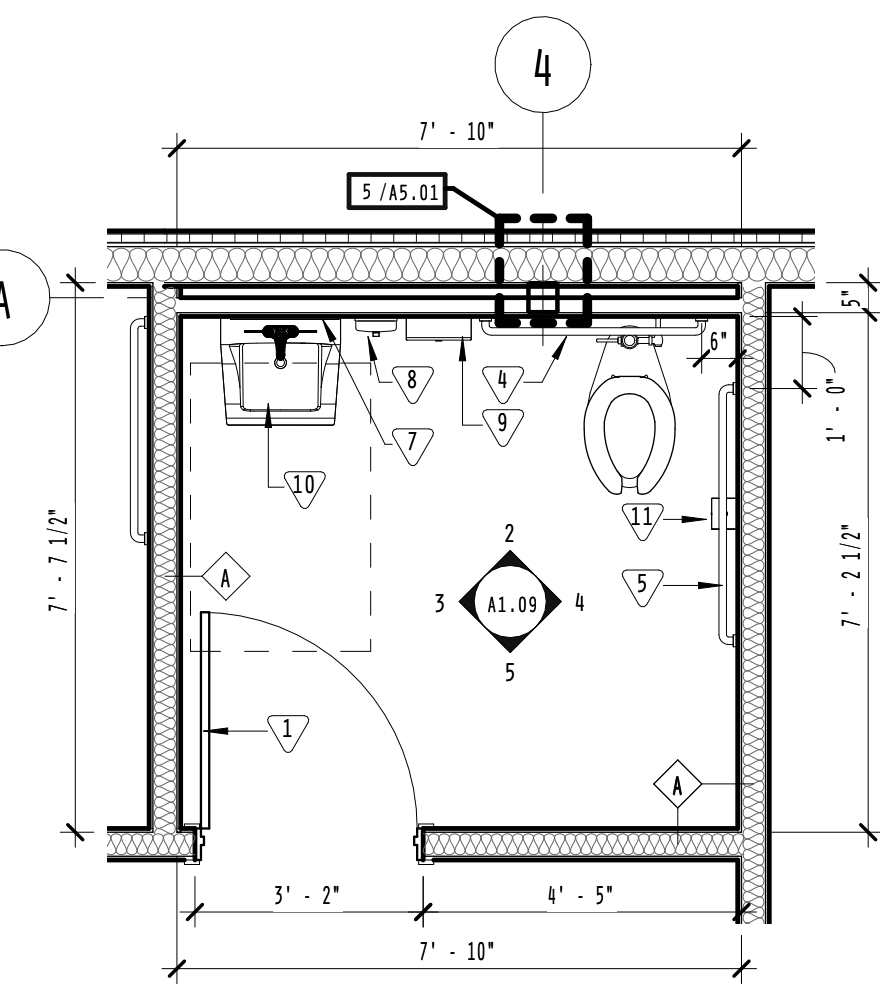
**11** ALUMINUM EDGE  
12" = 1'-0"



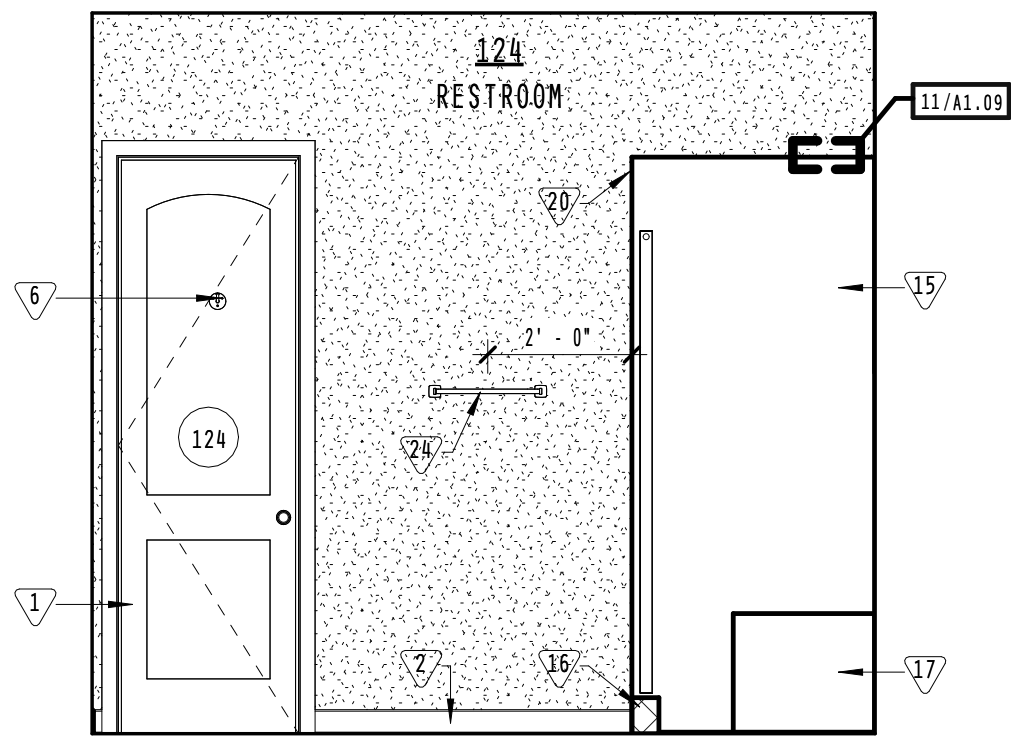
**6** ENLARGED FLOOR PLAN  
3/8" = 1'-0"

TOILET ACCESSORIES SCHEDULE		
TYPE MARK	BASIS OF DESIGN	NOTES
TA-1	BOBRICK MODEL NO. 2721	CF/CI
TA-2	BOBRICK MODEL NO. B-4112	CF/CI
TA-3	BOBRICK MODEL NO. B-2620	CF/CI
TA-4	BOBRICK MODEL NO. B-270	CF/CI
TA-5	BOBRICK SERIES NO. B-6800	CF/CI
TA-6	BOBRICK SERIES NO. B-6800	CF/CI
TA-7	BOBRICK MODEL NO. B-290-1836	CF/CI
TA-8	BOBRICK MODEL NO. B-6717	CF/CI
TA-9	BOBRICK MODEL NO. B-239 X 34	CF/CI
TA-10	BOBRICK MODEL NO. B-298-24	CF/CI
TA-11	BOBRICK MODEL NO. B-6047 X 60 NO. B-204-1 NO. B-204-2	CF/CI
TA-12	BOBRICK MODEL NO. B-6737 X 24	CF/CI
TA-13	4" KERFI-DRAIN BRUSHED NICKEL FLORAL DESIGN	CF/CI

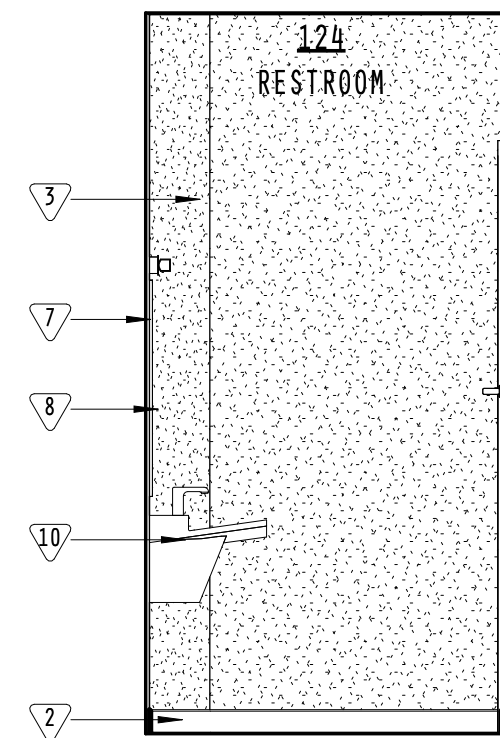
ALL ACCESSORIES TO BE STAINLESS STEEL WITH SATIN FINISH  
 \*NOTES: OF/CI: OWNER FURNISHED-CONTRACTOR INSTALLED  
 OF/OI: OWNER FURNISHED-OWNER INSTALLED  
 CF/CI: CONTRACTOR FURNISHED-CONTRACTOR INSTALLED



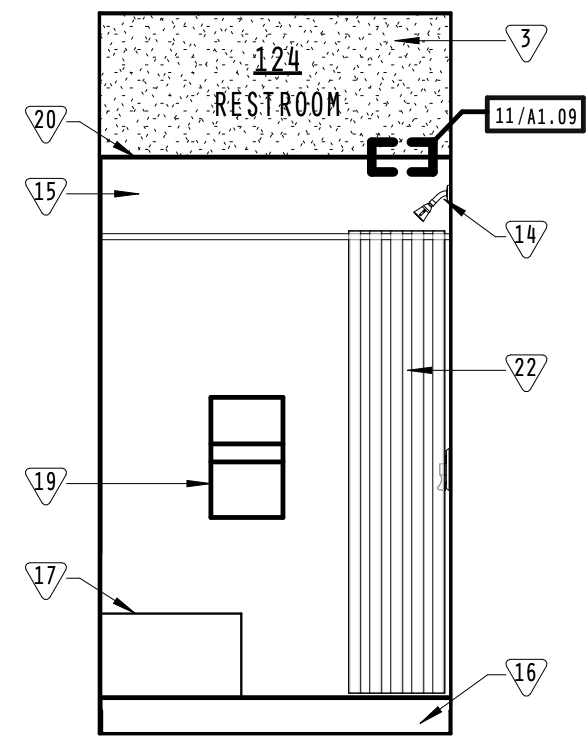
**1** ENLARGED FLOOR PLAN  
3/8" = 1'-0"



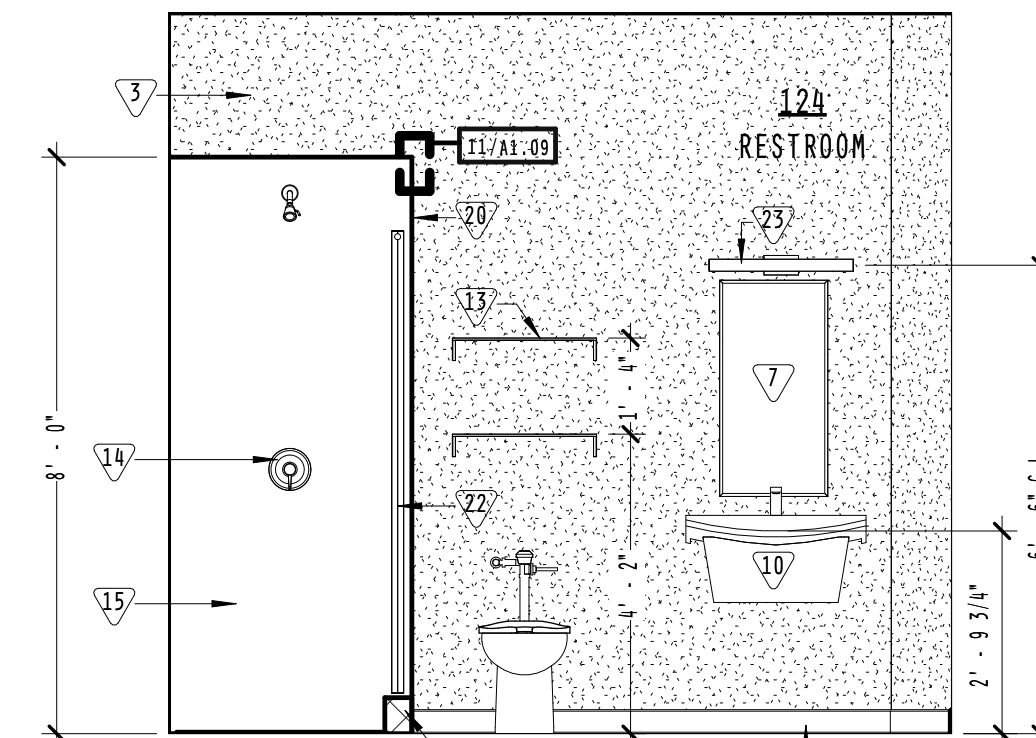
**10** INTERIOR ELEVATION  
3/8" = 1'-0"



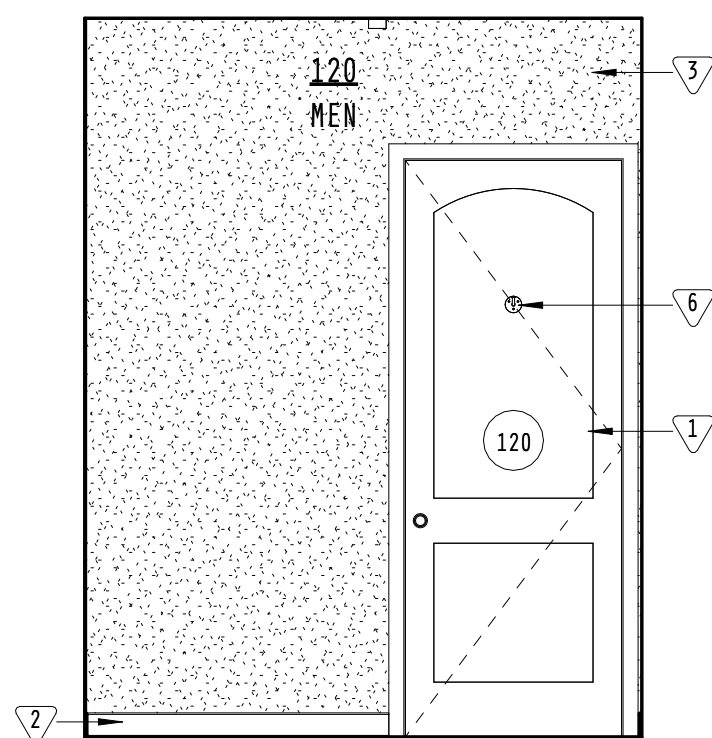
**9** INTERIOR ELEVATION  
3/8" = 1'-0"



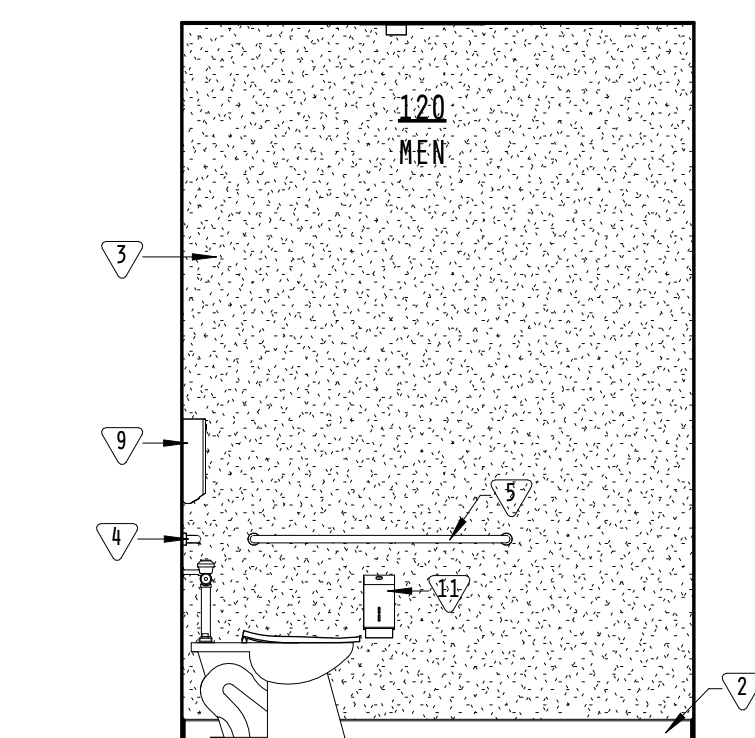
**8** INTERIOR ELEVATION  
3/8" = 1'-0"



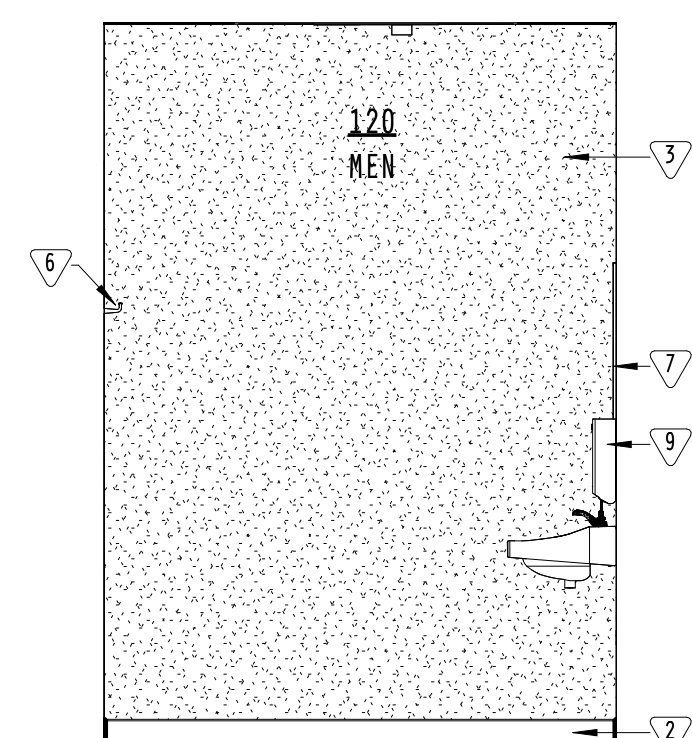
**7** INTERIOR ELEVATION  
3/8" = 1'-0"



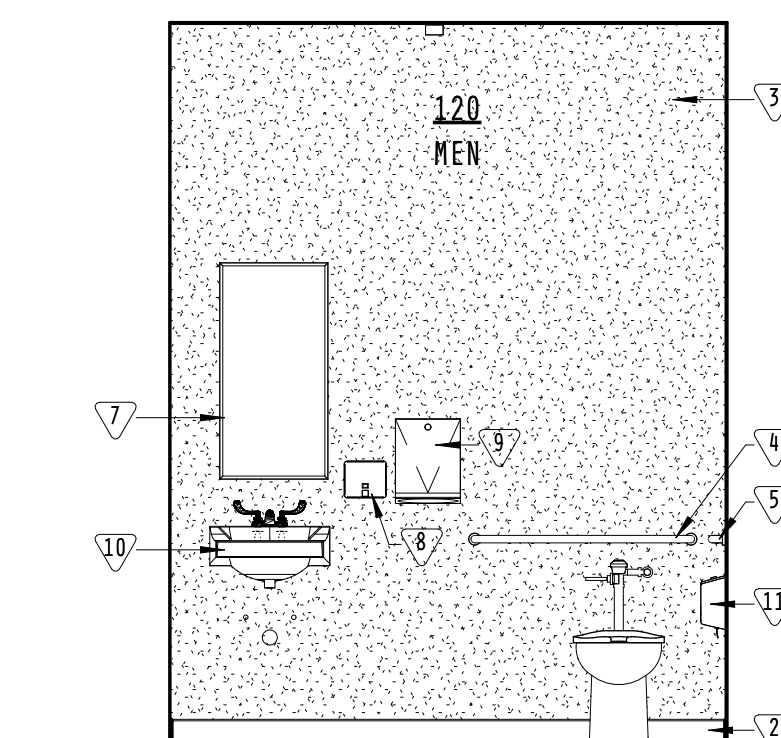
**5** INTERIOR ELEVATION  
3/8" = 1'-0"



**4** INTERIOR ELEVATION  
3/8" = 1'-0"



**3** INTERIOR ELEVATION  
3/8" = 1'-0"



**2** INTERIOR ELEVATION  
3/8" = 1'-0"

1	PERMIT SET	06/05/23
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06.05.23  
 SAN GARCIA ARCHITECT  
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**KHIT CHIROPRACTIC WELLNESS**

6151 E. POST ROAD, KYLE, TX 78640  
 2022-008 06.05.23

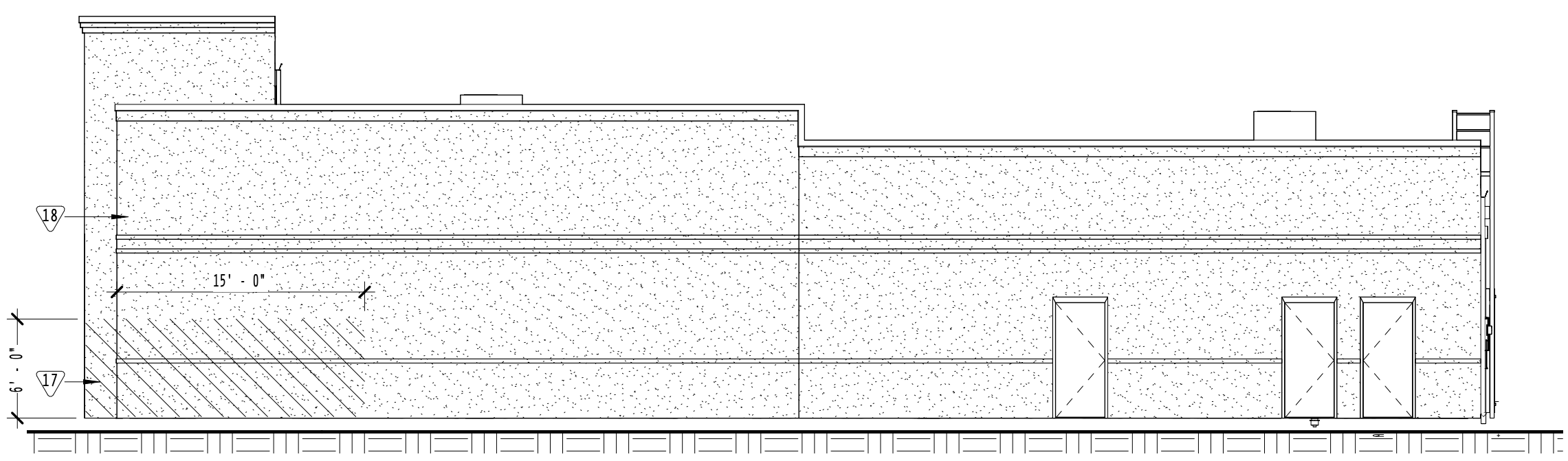
ENLARGED PLANS

**A1.09**



**SHEET KEYNOTES**

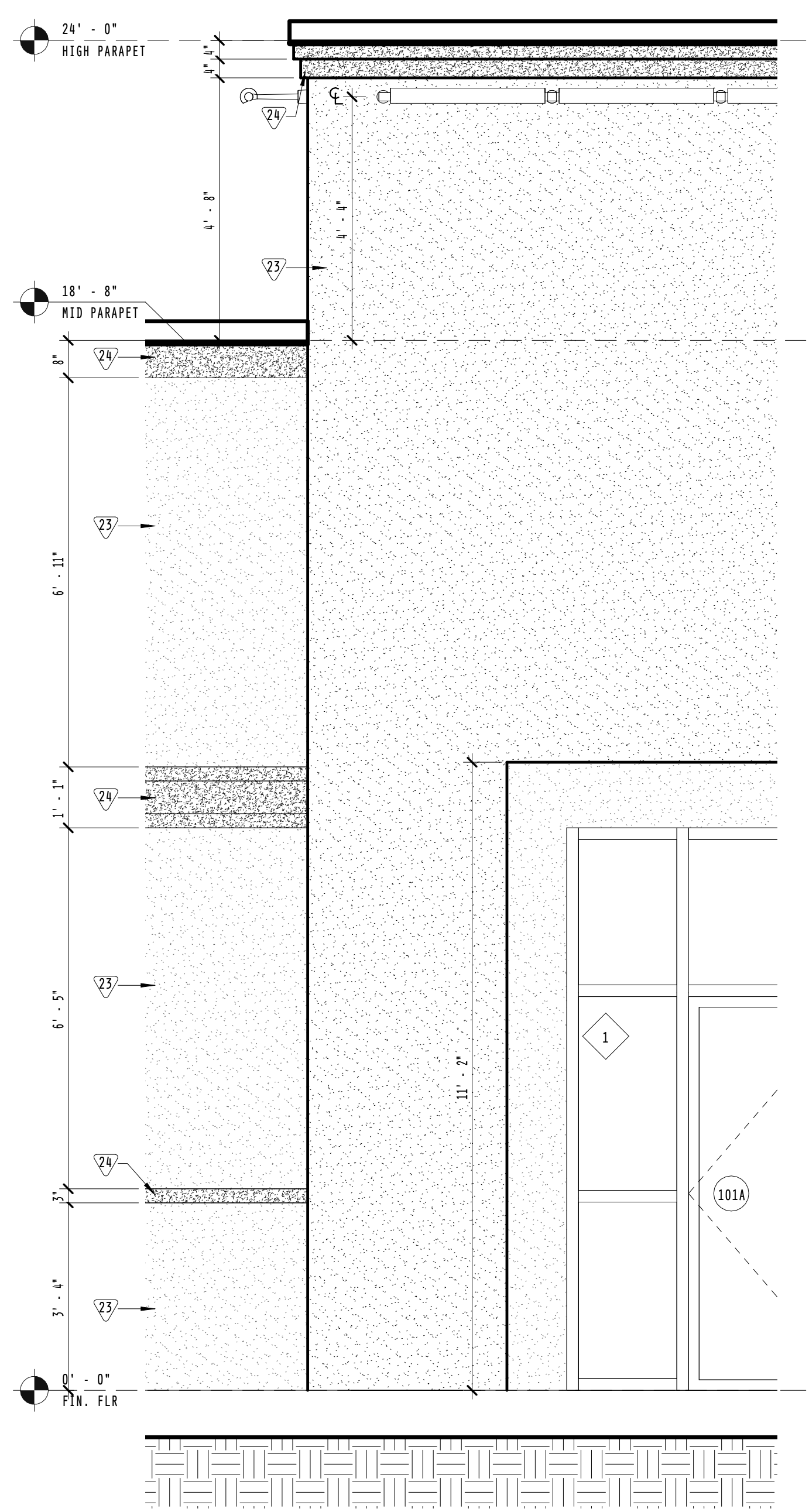
1. PREFINISHED METAL COPING
2. STUCCO MOLDING
3. SIDEWALK REFER CIVIL DRAWINGS
4. ALUMINUM STOREFRONT
5. LIGHT FIXTURE REFER MEP DRAWINGS
6. STUCCO SYSTEM AS SPECIFIED
7. SIGNAGE ALUMINUM LETTERS
8. ALUMINUM DOWNSPOUT
9. ALUMINUM GUTTER
10. ADHERED TPO ROOFING
11. ALUMINUM LOUVER
12. RTU REFER MEP DRAWINGS
13. DOOR AS SCHEDULED
14. MINI SPLIT REFER MEP DRAWINGS
15. CONTROL JOINT
16. TPO WALKWAY PADS
17. HIGH IMPACT RESISTANT FINISH
18. STANDARD IMPACT RESISTANT FINISH
19. ROOF ACCESS LADDER AS SPECIFIED
20. ELECTRICAL METER REFER MEP DRAWINGS
21. MAIN DISCONNECT REFER MEP DRAWINGS
22. COMMUNICATION AND DISTRIBUTION
23. STUCCO FIELD FINISH:
  - SAND FINE
  - COLOR 10400L SNOWBALL
24. STUCCO TRIM FINISH:
  - SAND COARSE
  - COLOR 10400L SNOWBALL



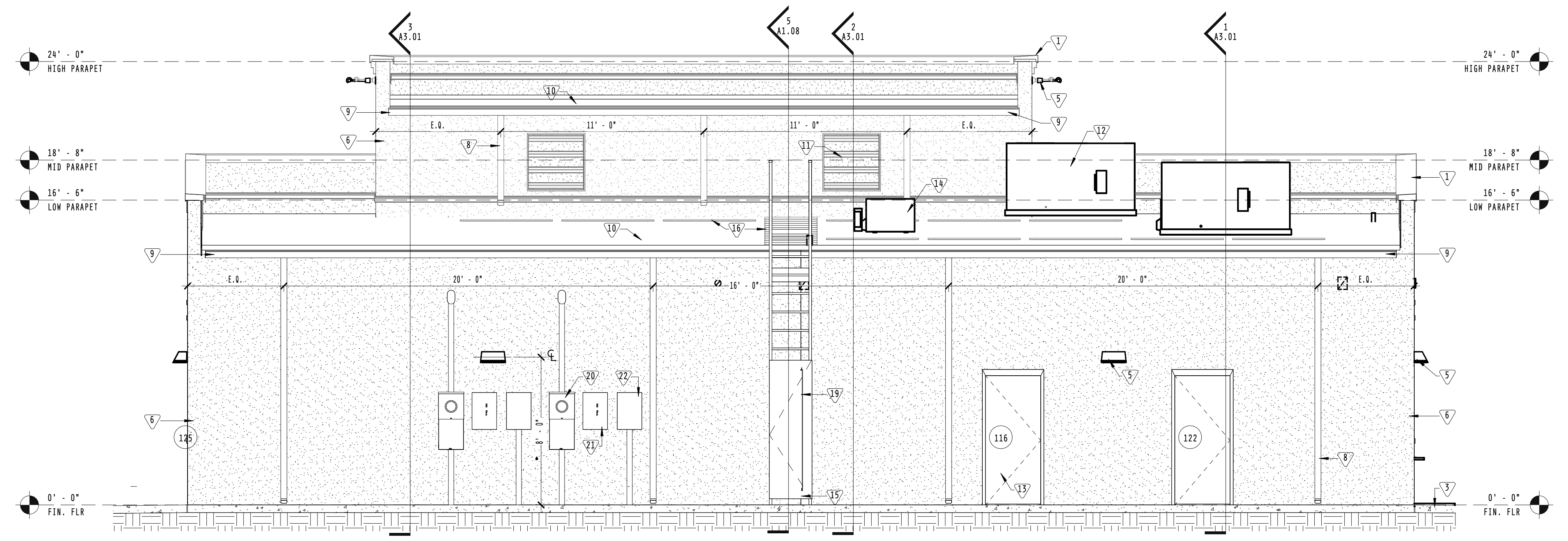
**5** EAST/WEST ELEVATION IMPACT RESISTANCE LEGEND  
1/8" = 1'-0"



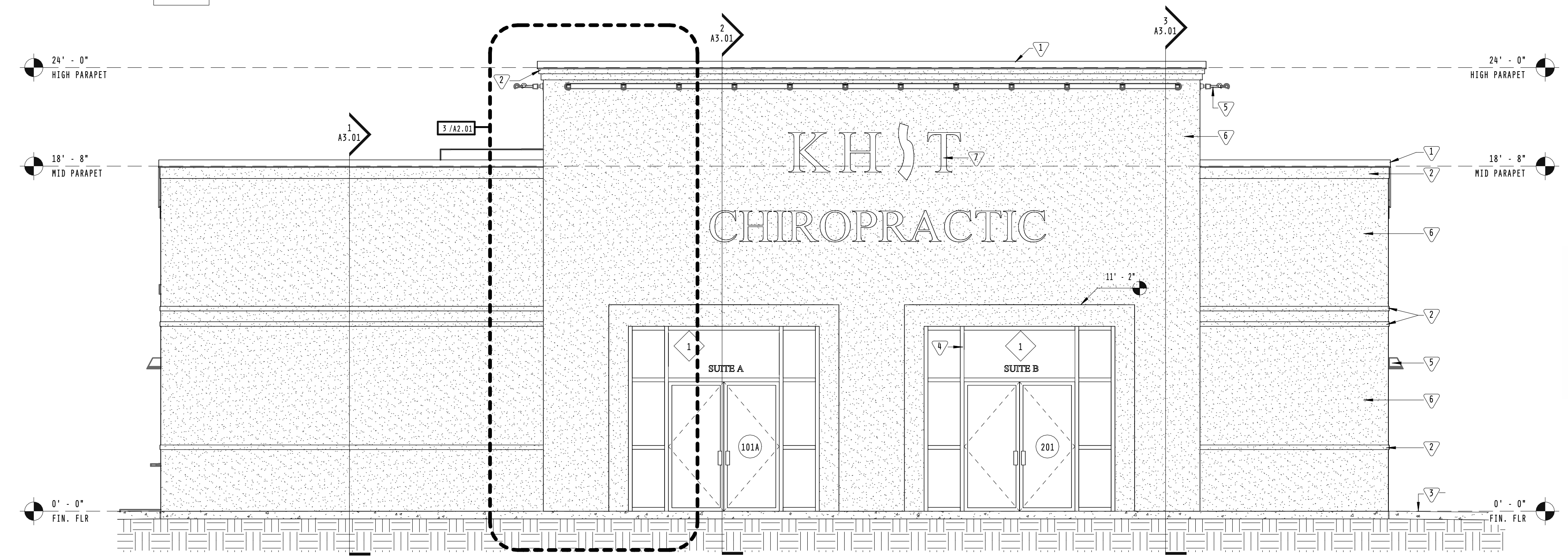
**4** SOUTH ELEVATION IMPACT RESISTANCE LEGEND  
1/8" = 1'-0"



**3** ENLARGED ELEVATION  
1/2" = 1'-0"



**2** NORTH ELEVATION  
1/4" = 1'-0"



**1** SOUTH ELEVATION  
1/4" = 1'-0"

1	PERMIT SET	06/05/23
No.	DESCRIPTION	DATE

06.05.23

**SAN GARCIA ARCHITECT**  
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MCALLEN, TX 78504  
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**KHIT CHIROPRACTIC WELLNESS**

6151 E. POST ROAD,  
KYLE, TX 78640

2022-008 06.05.23  
EXTERIOR ELEVATIONS

**A2.01**

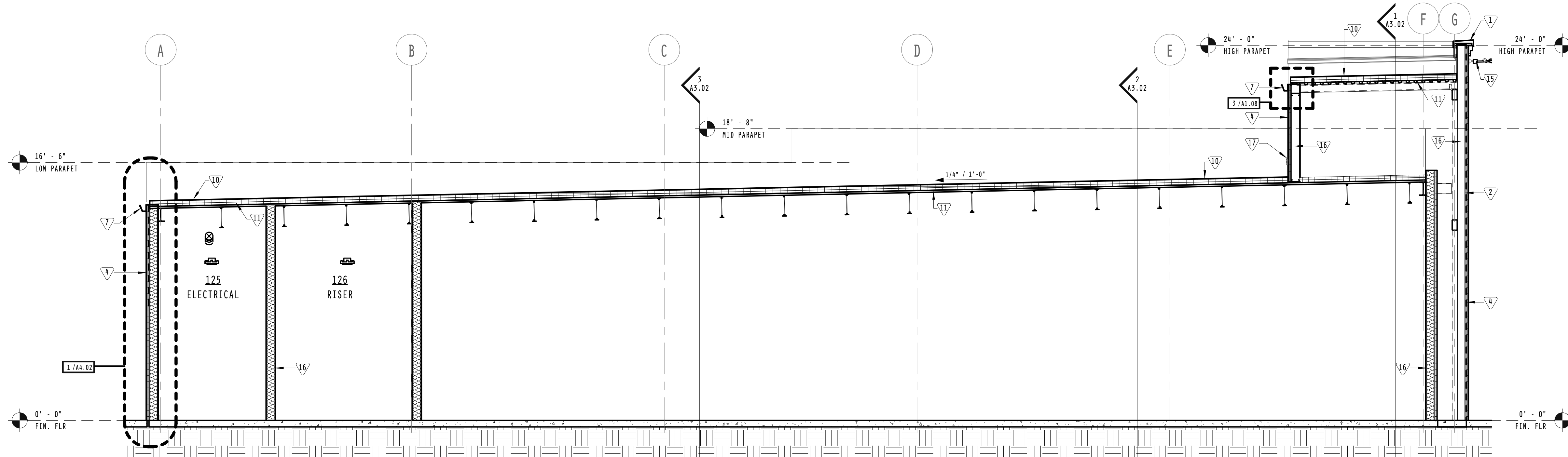
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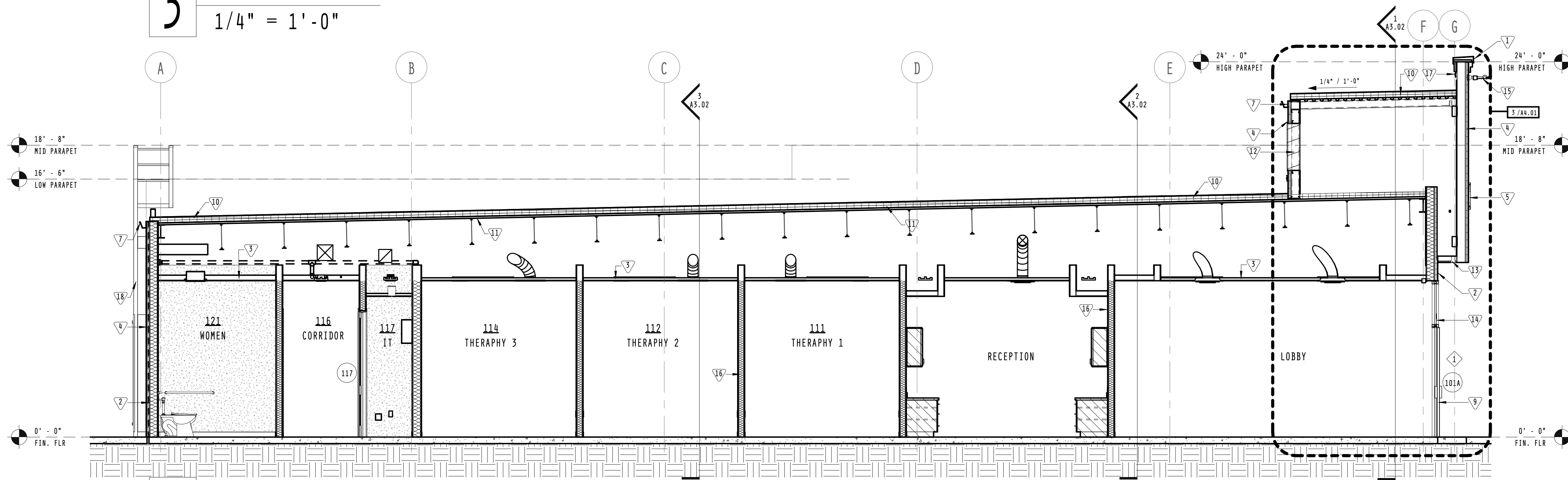




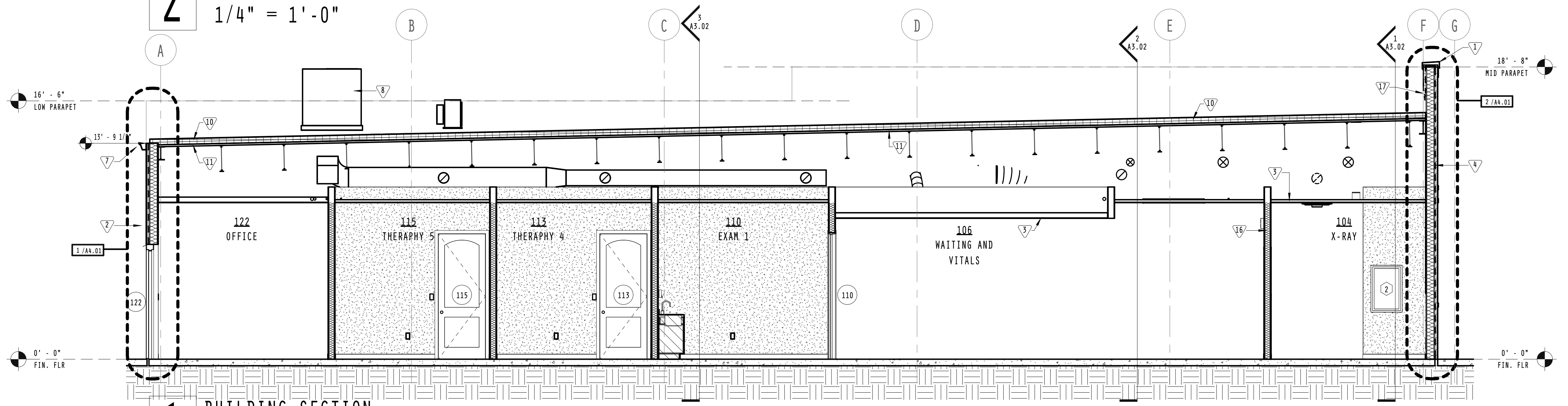
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**3** BUILDING SECTION  
1/4" = 1'-0"



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



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

- SHEET KEYNOTES**
1. PREFINISHED METAL COPING
  2. CDX PLYWOOD SHEATHING
  3. CEILING AS SCHEDULED
  4. STUCCO SYSTEM WITH 2" OF C.I.
  5. STUCCO ALUMINUM LETTERS
  6. ALUMINUM GUTTER DOWNSPOUT
  7. ALUMINUM GUTTER
  8. RTU REFER MEP DRAWINGS
  9. DOOR AS SCHEDULED
  10. ADHERED TPO ROOFING
  11. METAL DECKING REFER STRUCTURAL DRAWINGS
  12. ALUMINUM LOUVER
  13. STUCCO SOFFIT
  14. ALUMINUM STOREFRONT
  15. LIGHT FIXTURE REFER MEP DRAWINGS
  16. STRUCTURAL C-STUD FRAMING AT 16" O.C.
  17. COUNTERFLASHING AS SPECIFIED
  18. ROOF ACCESS LADDER AS SPECIFIED

1	PERMIT SET	06/05/23
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06.05.23

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KYLE, TX 78640

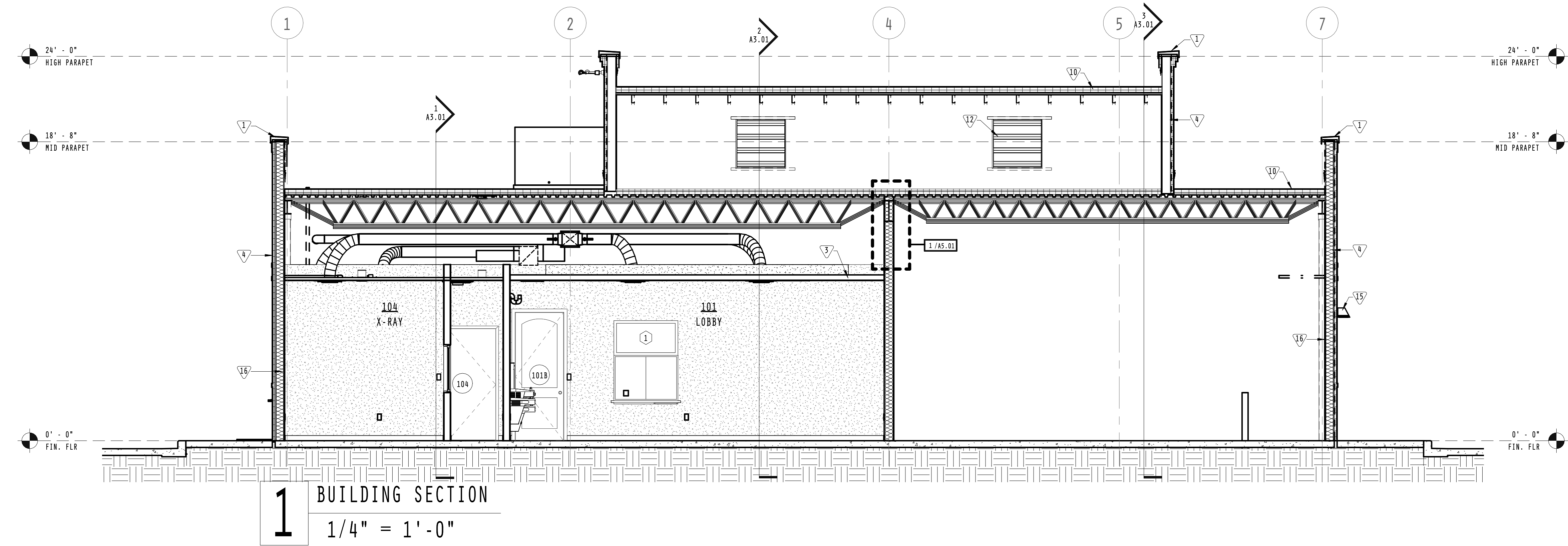
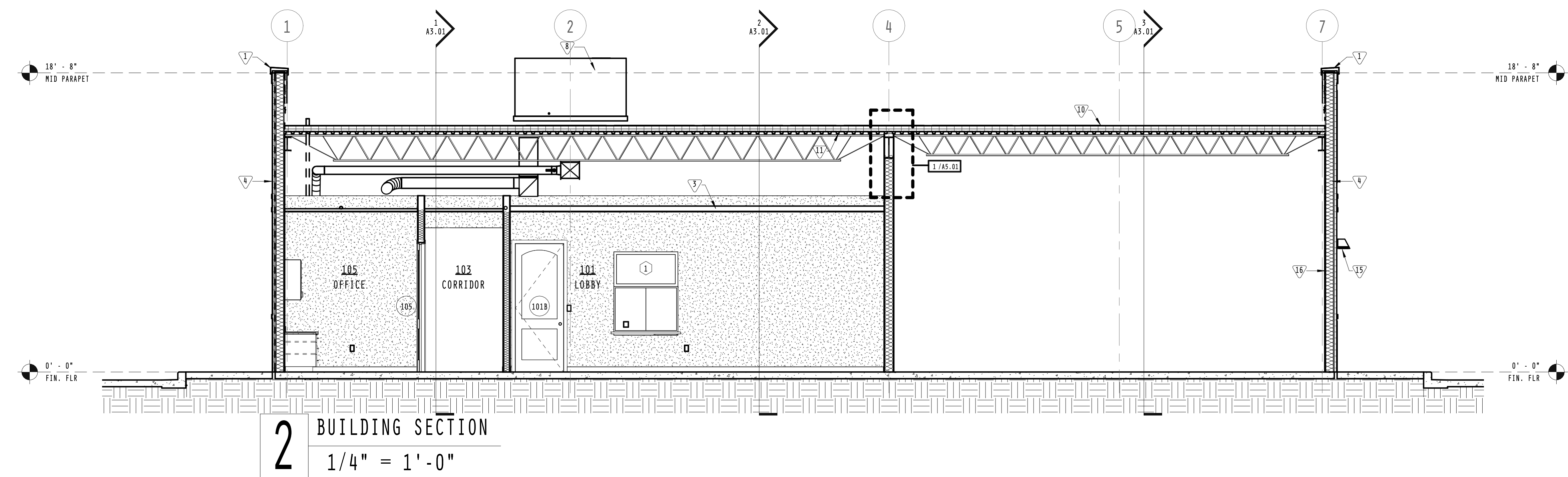
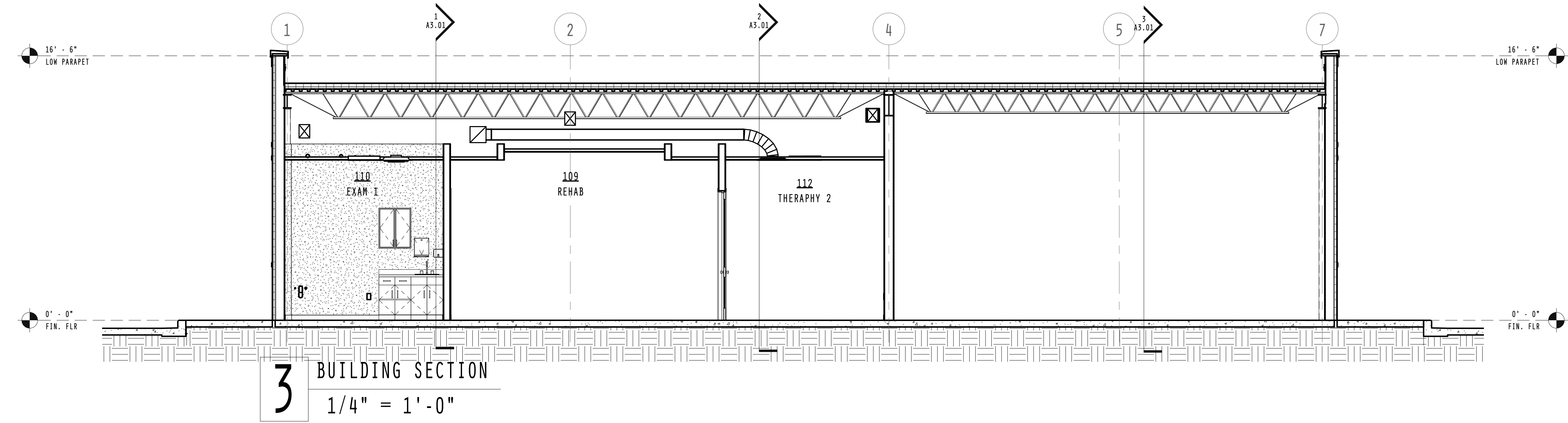
2022-008 06.05.23  
BUILDING SECTIONS

A3.01

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- SHEET KEYNOTES**
1. PREFINISHED METAL COPING
  2. CDX PLYWOOD SHEATHING
  3. CEILING AS SCHEDULED
  4. STUCCO SYSTEM WITH 2" OF C.I.
  5. SIGNAGE ALUMINUM LETTERS
  6. ALUMINUM GUTTER DOWNSPOUT
  7. ALUMINUM GUTTER
  8. RTU REFER MEP DRAWINGS
  9. DOOR AS SCHEDULED
  10. ADHERED TPO ROOFING
  11. METAL DECKING REFER STRUCTURAL DRAWINGS
  12. ALUMINUM LOUVER
  13. STUCCO SOFFIT
  14. ALUMINUM STOREFRONT DRAWINGS
  15. LIGHT FIXTURE REFER MEP DRAWINGS
  16. STRUCTURAL C-STUD FRAMING AT 16" O.C.



1	PERMIT SET	06/05/23
No.	DESCRIPTION	DATE

06.05.23  
 SAN GARCIA ARCHITECT  
 1200 AUBURN AVE., SUITE 280  
 McALLEN, TX 78504  
 (956) 631-8327  
 INFO@SANGARCIAARCHITECT.COM

**KHIT CHIROPRACTIC WELLNESS**

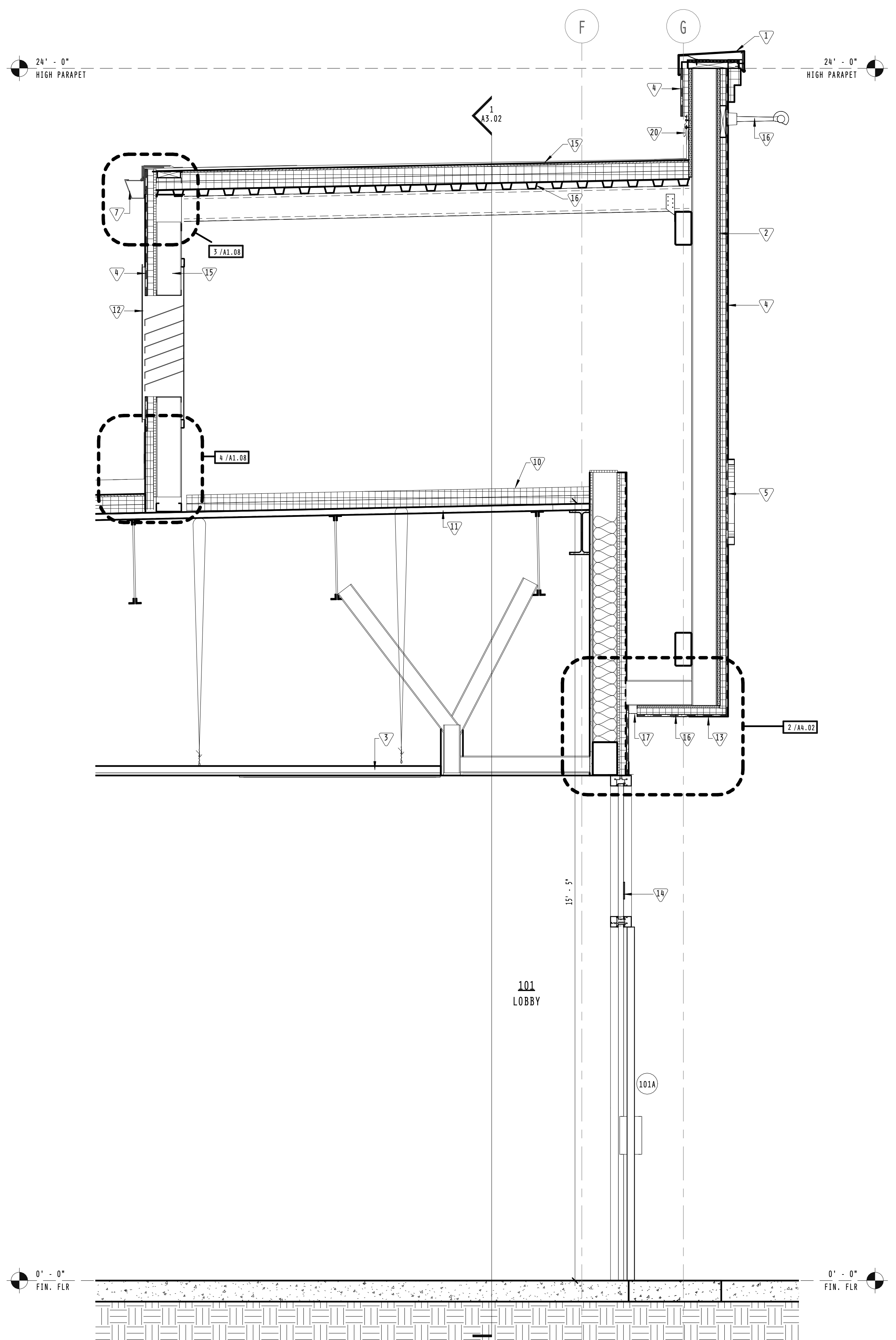
6151 E. POST ROAD, KYLE, TX 78640  
 2022-008 06.05.23  
**BUILDING SECTIONS**

**A3.02**

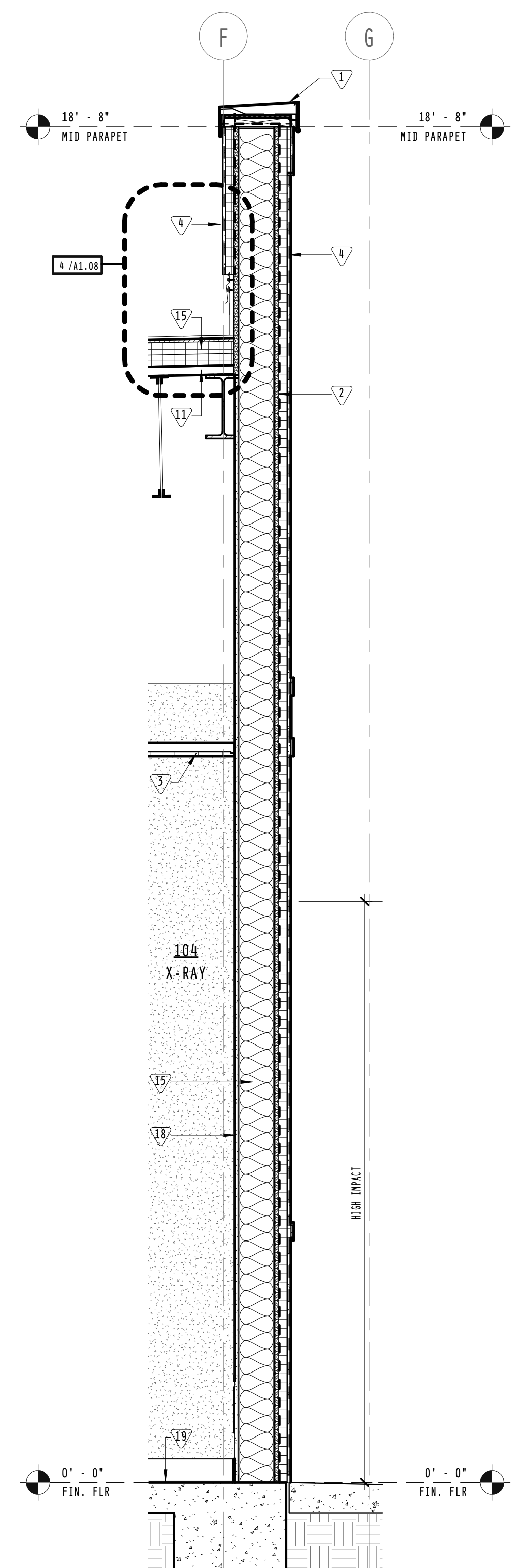
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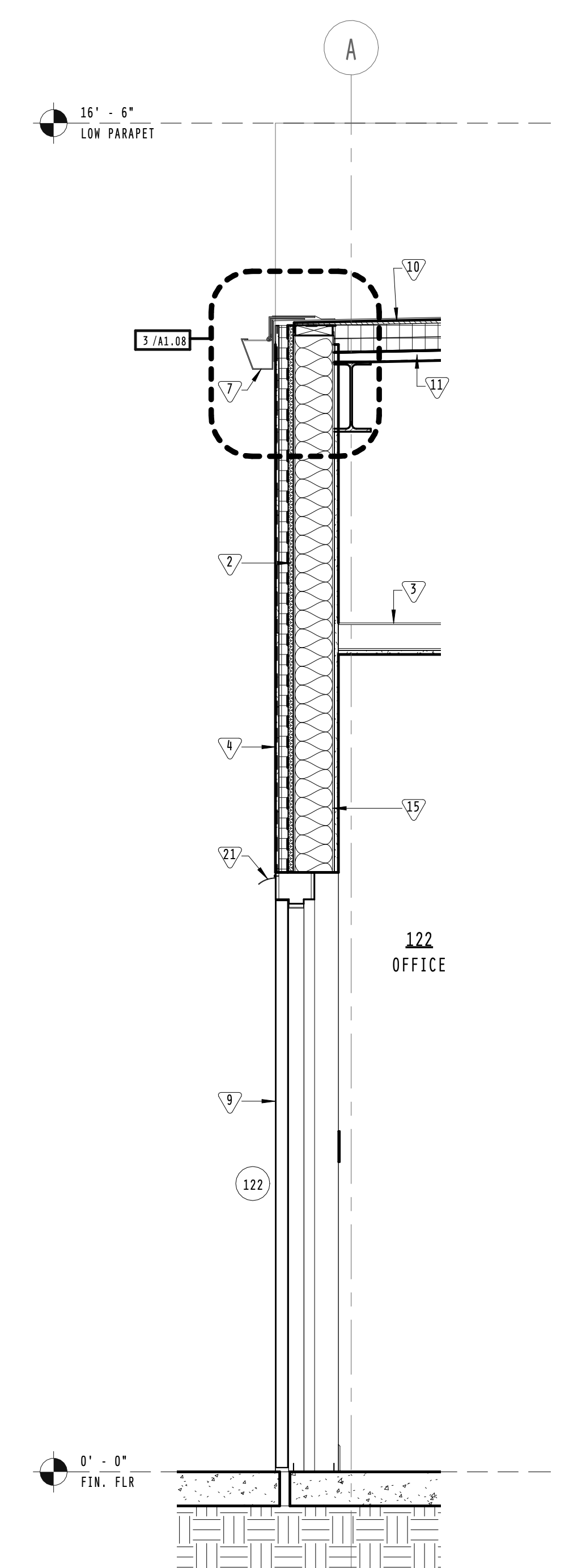
- SHEET KEYNOTES**
1. PREFINISHED METAL COPING
  2. SHEATHING AS SPECIFIED
  3. CEILING AS SCHEDULED
  4. STUCCO SYSTEM WITH 2" OF C.I.
  5. STORAGE ALUMINUM LETTERS
  6. ALUMINUM GUTTER
  7. RTU REFER MEP DRAWINGS
  8. DOOR AS SCHEDULED
  9. ADHERED TPO ROOFING
  10. METAL DECKING REFER STRUCTURAL DRAWINGS
  11. STUCCO SOFFIT
  12. ALUMINUM LOUVER
  13. ALUMINUM STOREFRONT
  14. METAL STUD FRAMING AT 16" O.C.
  15. LIGHT FIXTURE REFER MEP DRAWINGS
  16. SOFFIT VENT AS SPECIFIED
  17. GYPSUM BOARD AS SCHEDULED
  18. FLOOR FINISH AS SCHEDULED
  19. COUNTERFLASHING AS SPECIFIED
  20. DRIP EDGE AS SPECIFIED



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



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



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

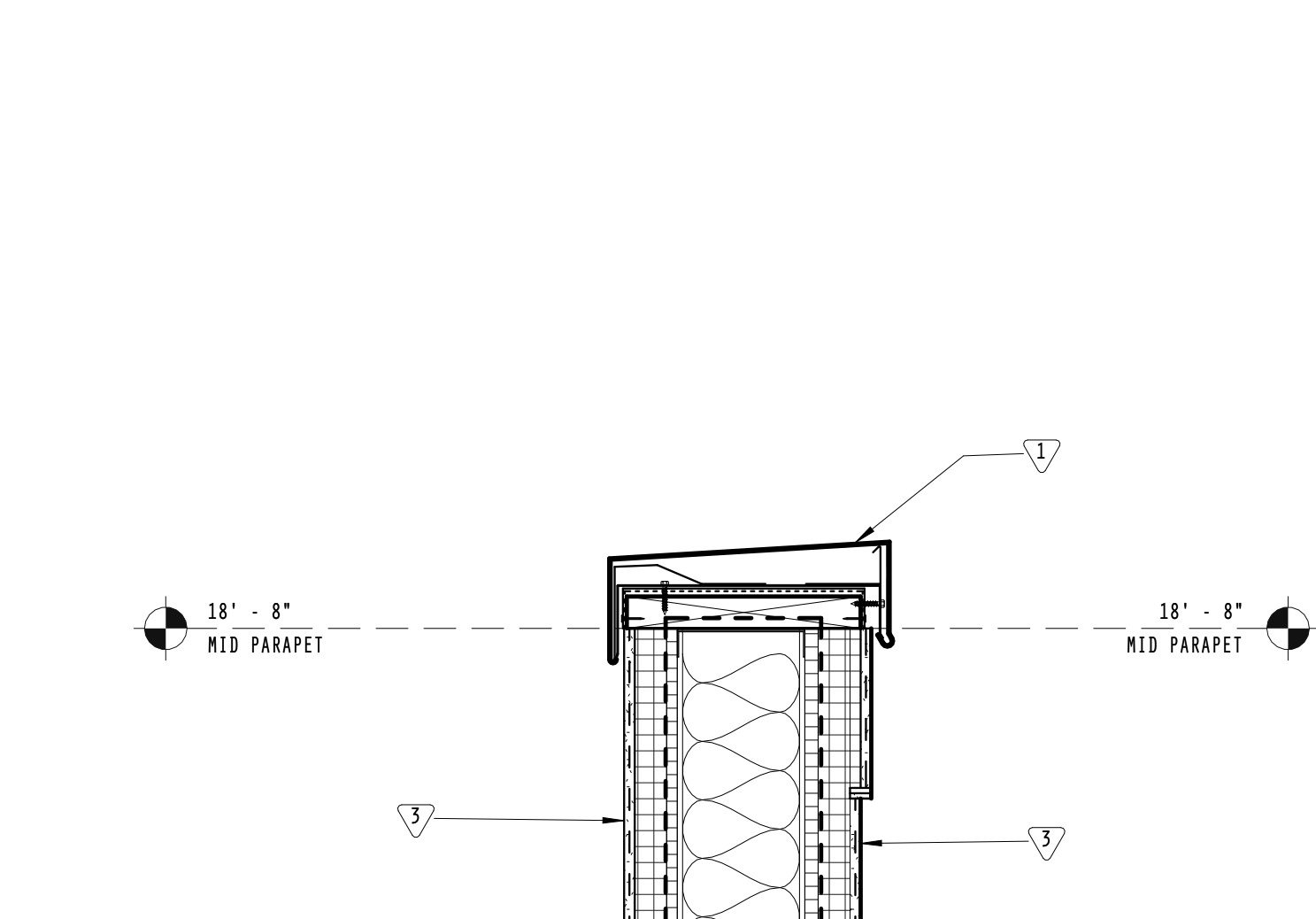
1	PERMIT SET	06/05/23
No.	DESCRIPTION	DATE
		
		
<b>KHIT</b> <b>CHIROPRACTIC</b> <b>WELLNESS</b>		
6151 E. POST ROAD, KYLE, TX 78640 2022-008      06.05.23		
<b>WALL SECTIONS</b>		
<b>A4.01</b>		

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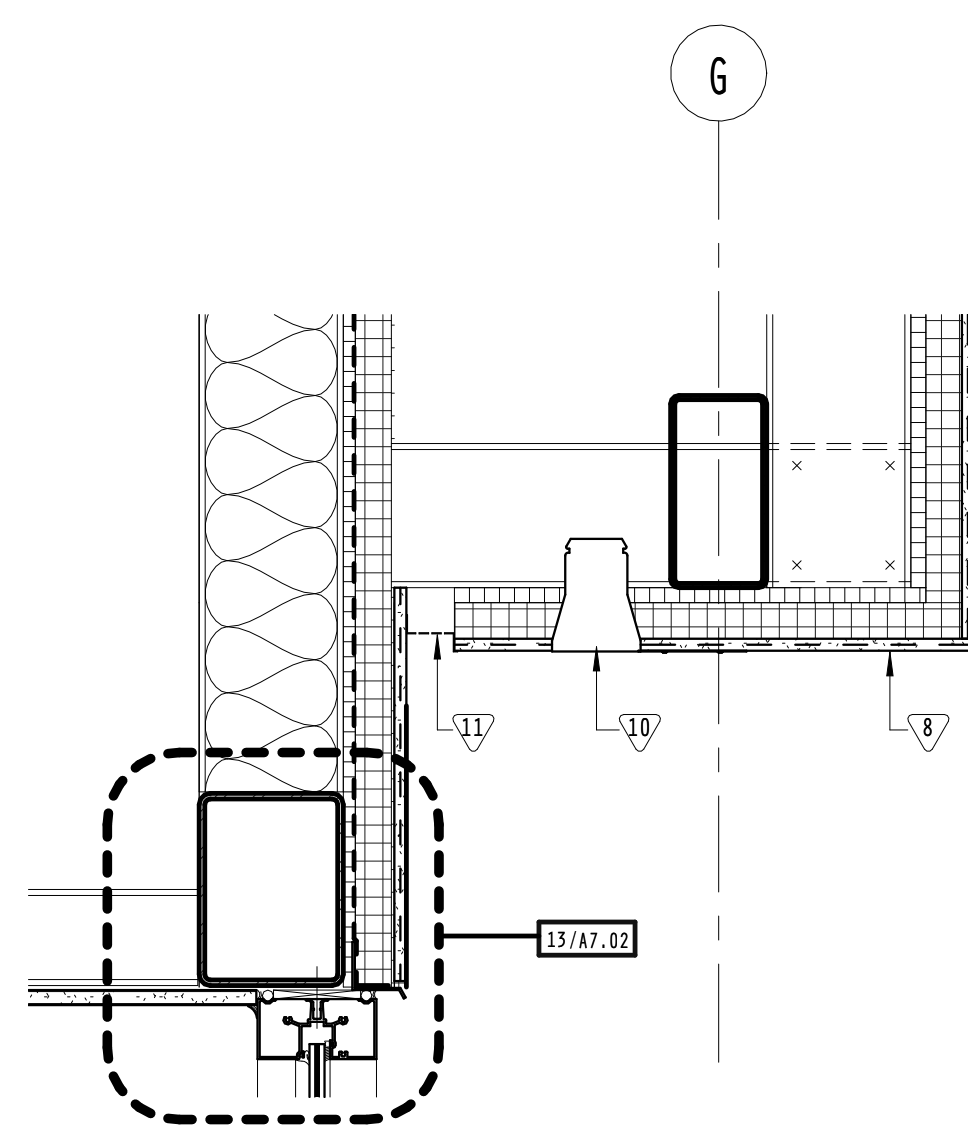


SHEET KEYNOTES

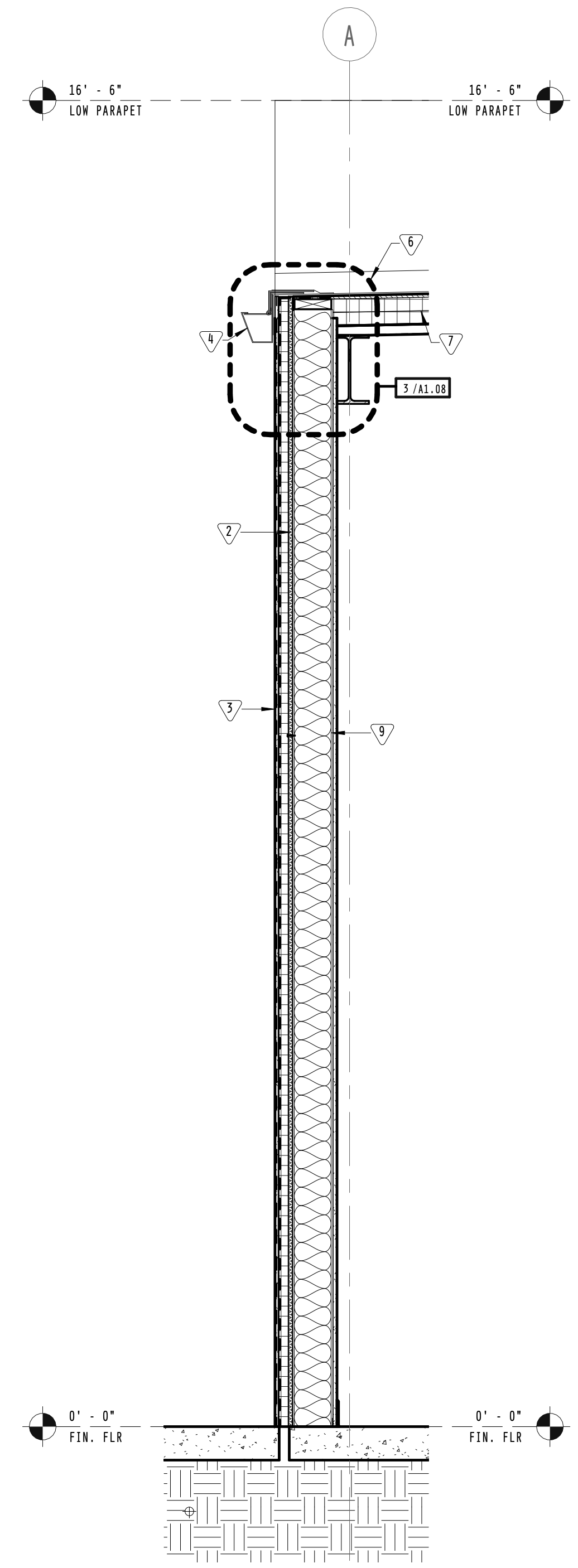
1. PREFINISHED METAL COPING
2. CDX PLYWOOD SHEATHING
3. STUCCO SYSTEM WITH 2" OF C.I.
4. ALUMINUM GUTTER
5. DOOR AS SCHEDULED
6. ADHERED TPO ROOFING
7. METAL DECKING REFER STRUCTURAL DRAWINGS
8. STUCCO SOFFIT
9. METAL STUD FRAMING AT 16" O.C.
10. LIGHT FIXTURE REFER MEP DRAWINGS
11. SOFFIT VENT AS SPECIFIED



**3** SECTION DETAIL  
1 1/2" = 1'-0"




**2** SECTION DETAIL  
1 1/2" = 1'-0"



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

1	PERMIT SET	06/05/23
No.	DESCRIPTION	DATE



06.05.23

**SAN GARCIA ARCHITECT**  
1200 AUBURN AVE.,  
SUITE 280  
MCALLEN, TX 78504  
(956) 631-8327  
INFO@SANGARCIAARCHITECT.COM

**KHIT CHIROPRACTIC WELLNESS**

6151 E. POST ROAD,  
KYLE, TX 78640

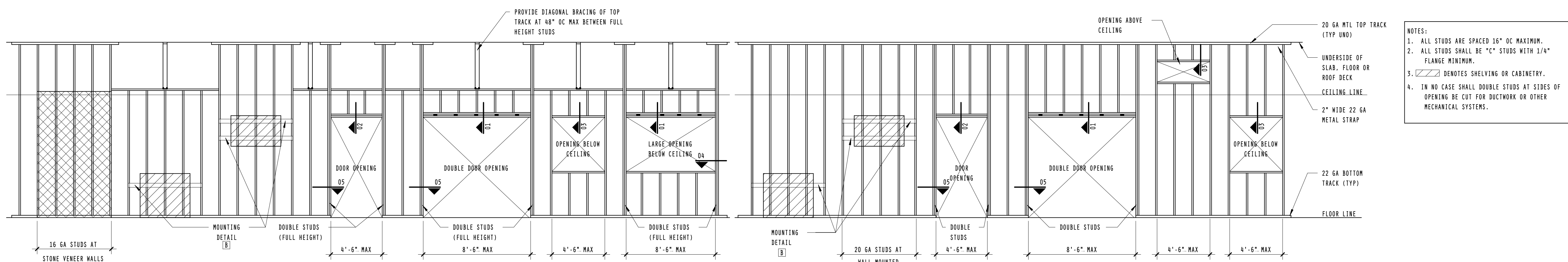
2022-008      06.05.23

WALL SECTIONS

A4.02

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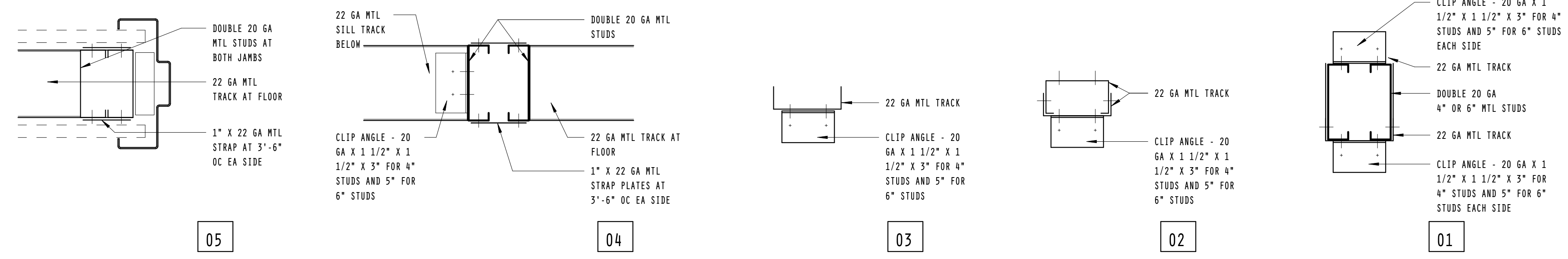
- NOTES:
1. ALL STUDS ARE SPACED 16" OC MAXIMUM.
  2. ALL STUDS SHALL BE "C" STUDS WITH 1/4" FLANGE MINIMUM.
  3. DENOTES SHELVING OR CABINETRY.
  4. IN NO CASE SHALL DOUBLE STUDS AT SIDES OF OPENING BE CUT FOR DUCTWORK OR OTHER MECHANICAL SYSTEMS.

UNBRACED HT.	WIDTH	
	4"	6"
0' - 10'	25 GA	25 GA
10' - 15'	25 GA	25 GA
15' - 20'	20 GA	25 GA
20' - 25'	18 GA	20 GA

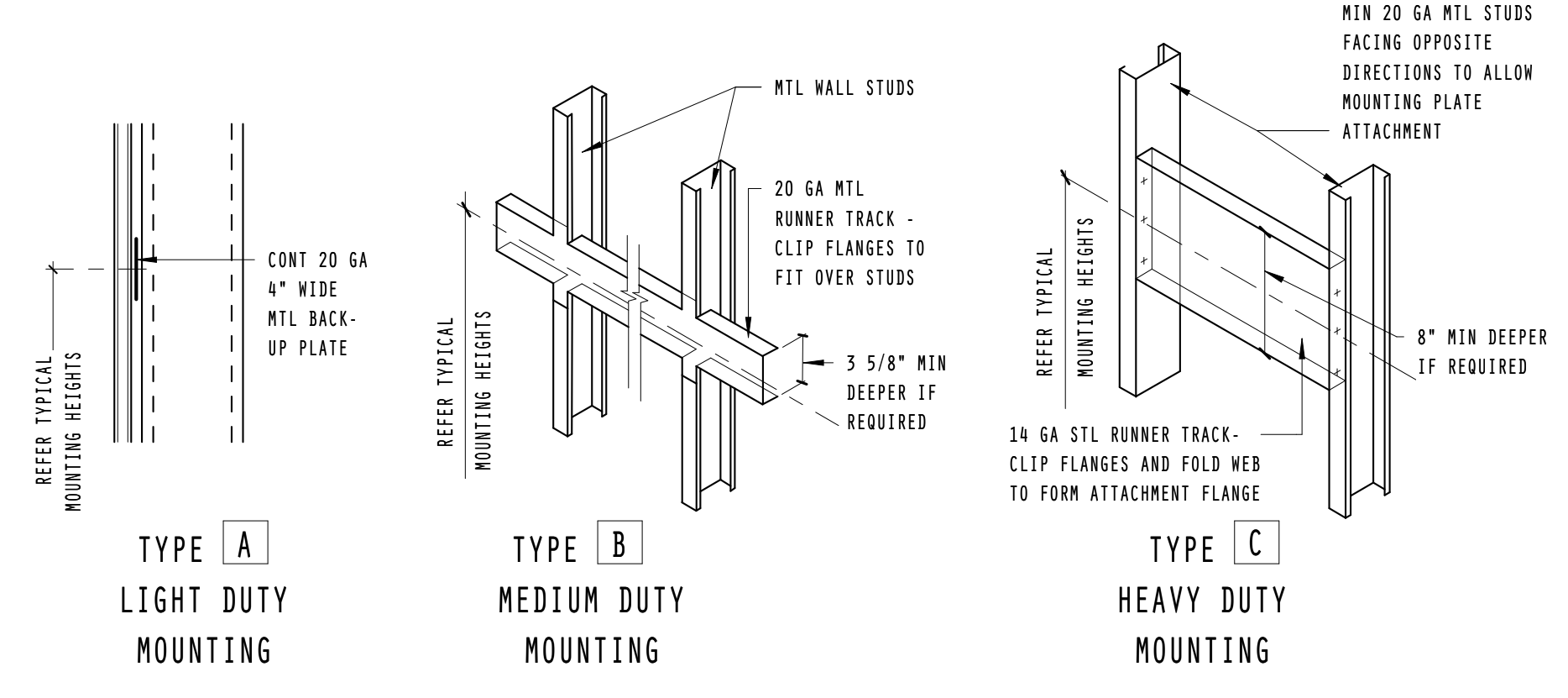
  

STUD SIZE	LIMITING HEIGHT
	MTL. SIDING (L/360)
4" X 18 GA	11' - 0"
4" X 16 GA	12' - 0"
4" X 14 GA	13' - 0"
6" X 20 GA	14' - 0"
6" X 18 GA	15' - 6"
6" X 16 GA	17' - 0"
6" X 14 GA	18' - 0"

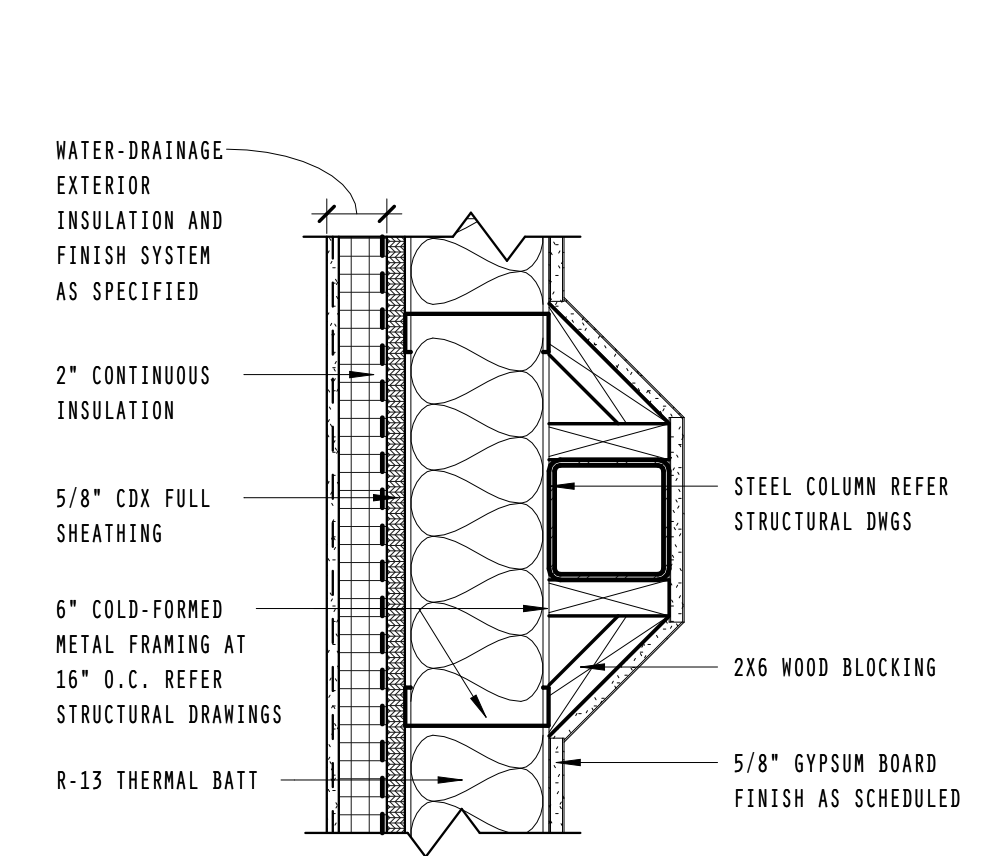
**9** PARTITION FRAMING INTERIOR  
1/4" = 1'-0"



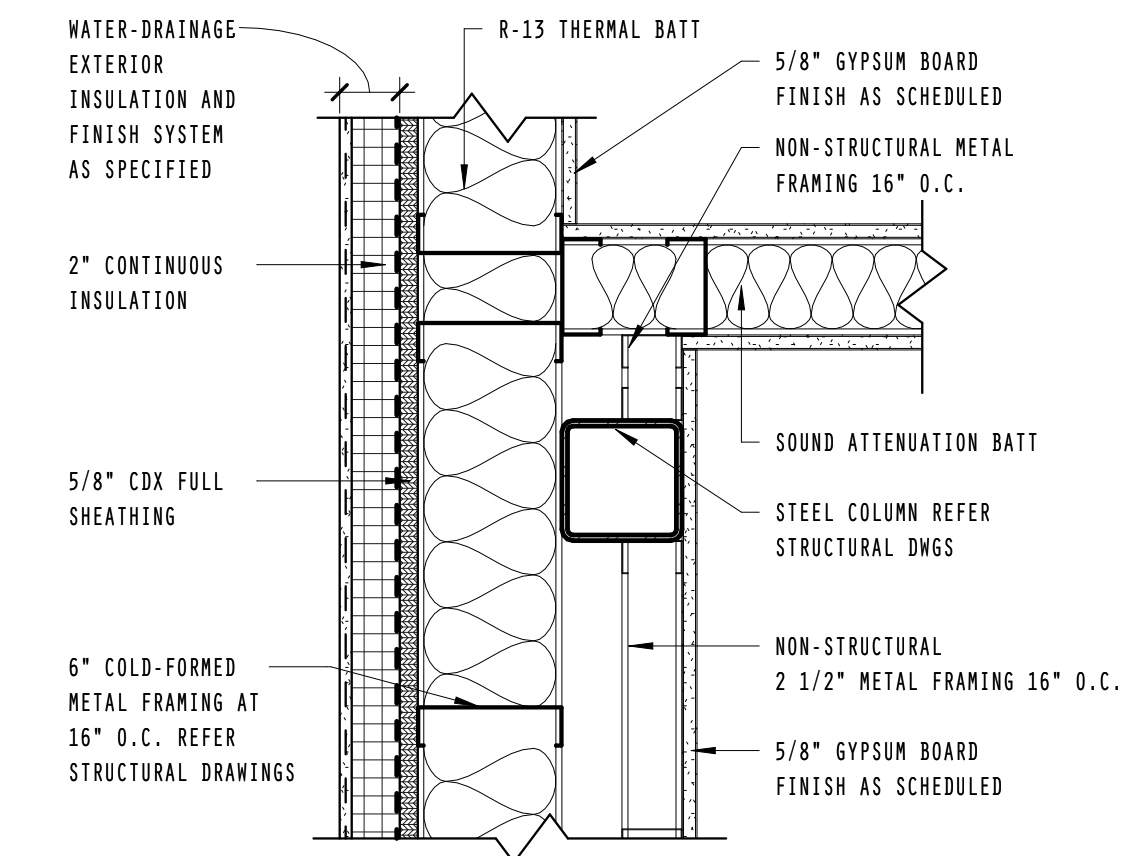
**3** PARTITIONS ACCESSORY/EQUIPMENT MOUNTING DETAILS  
1/4" = 1'-0"



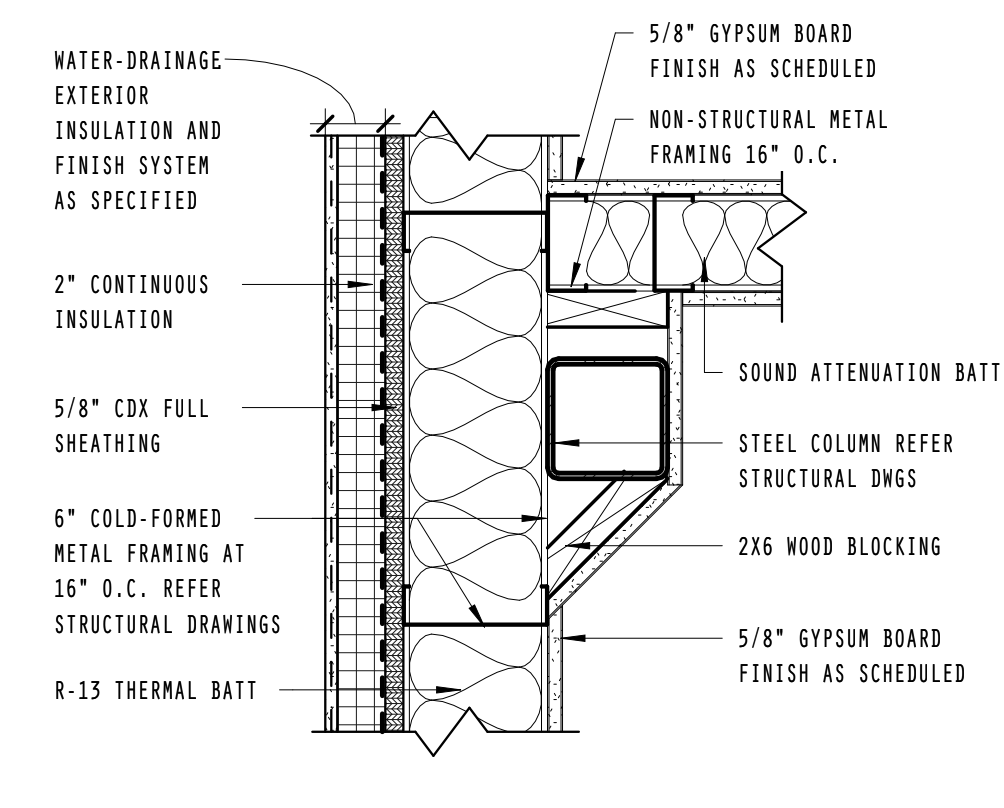
**8** PARTITION OPENING FRAMING  
3" = 1'-0"



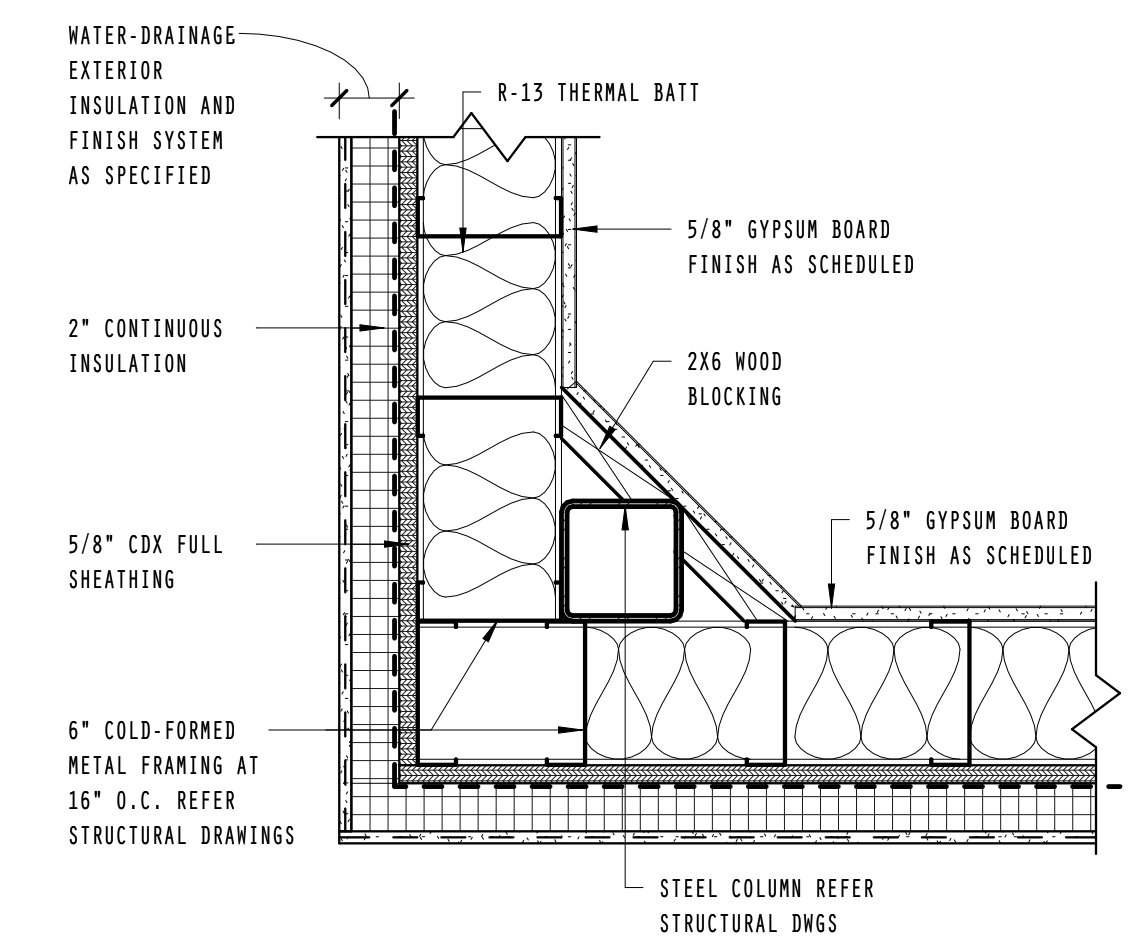
**7** PLAN DETAIL  
1 1/2" = 1'-0"



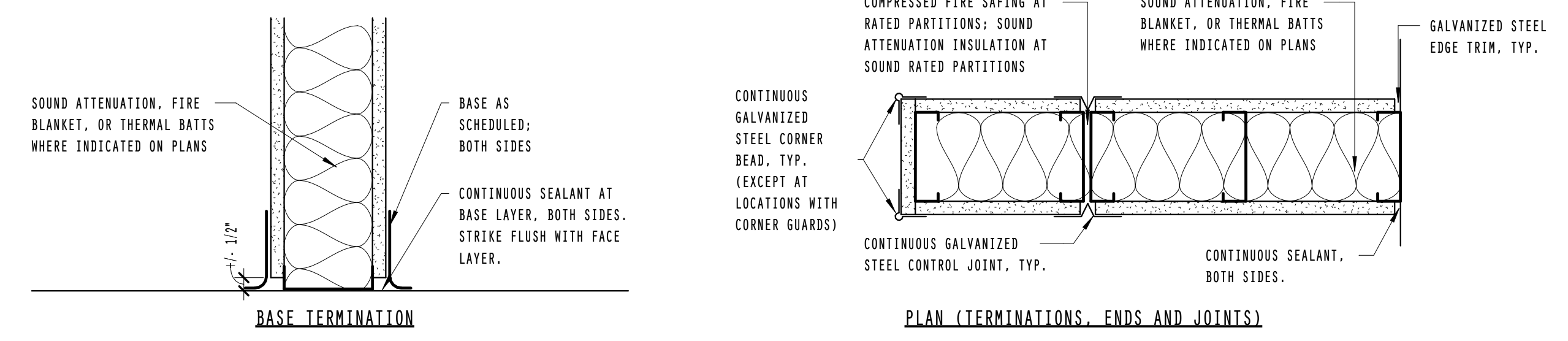
**5** PLAN DETAIL  
1 1/2" = 1'-0"



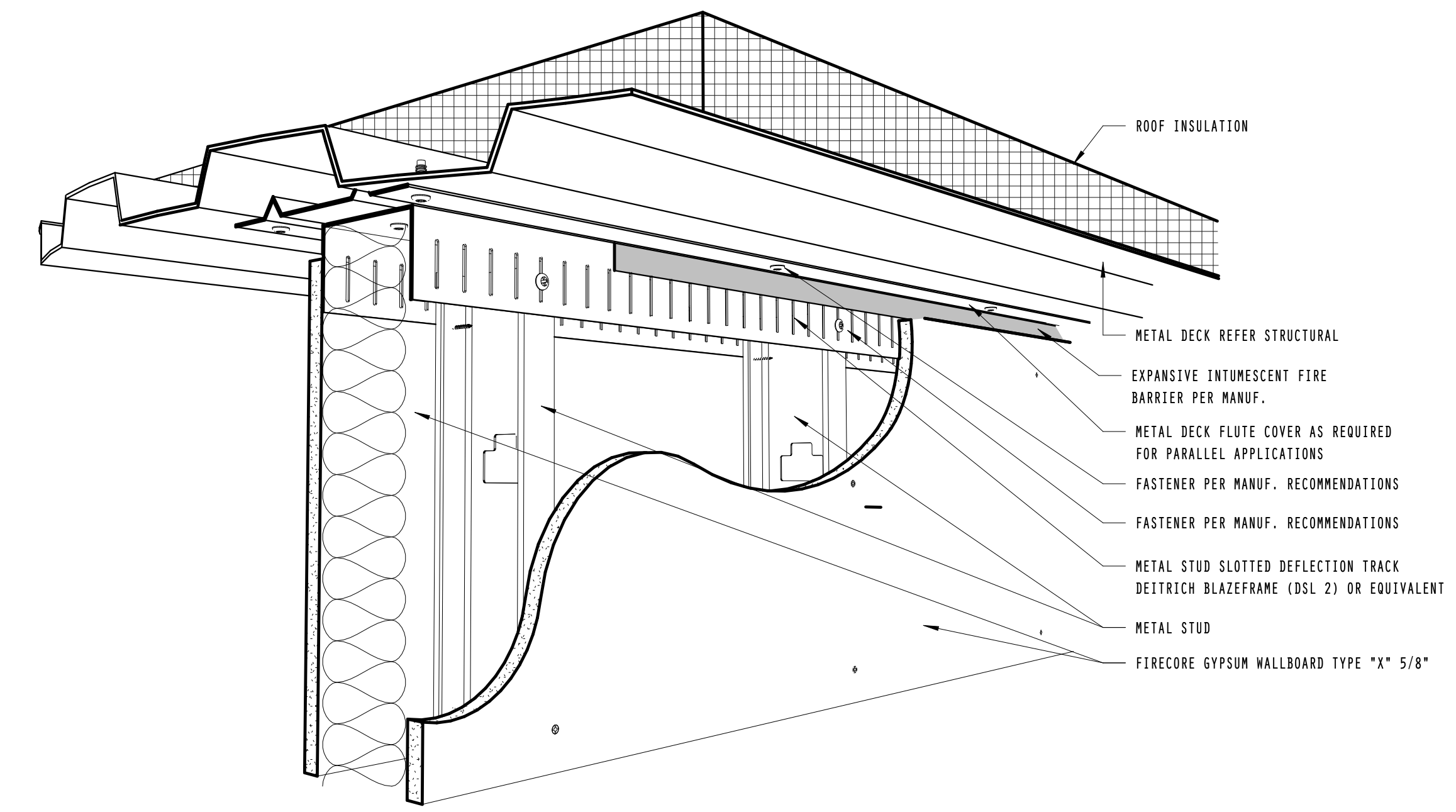
**6** PLAN DETAIL  
1 1/2" = 1'-0"



**4** PLAN DETAIL  
1 1/2" = 1'-0"



**2** METAL STUD COMPONENTS  
12" = 1'-0"



**1** FIRE RATED DEFLECTION TRACK  
1 1/2" = 1'-0"

1 PERMIT SET 06/05/23  
No. DESCRIPTION DATE

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INFO@SANGARCIAARCHITECT.COM

**KHIT CHIROPRACTIC WELLNESS**

6151 E. POST ROAD, KYLE, TX 78640  
2022-008 06.05.23

DETAILS

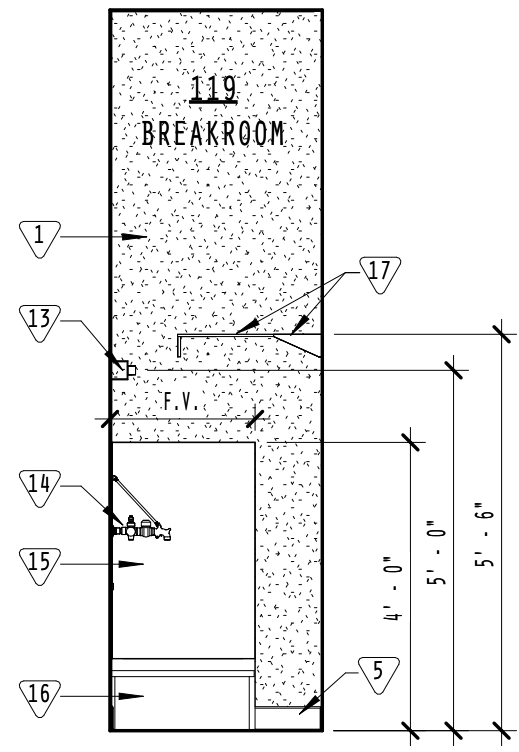
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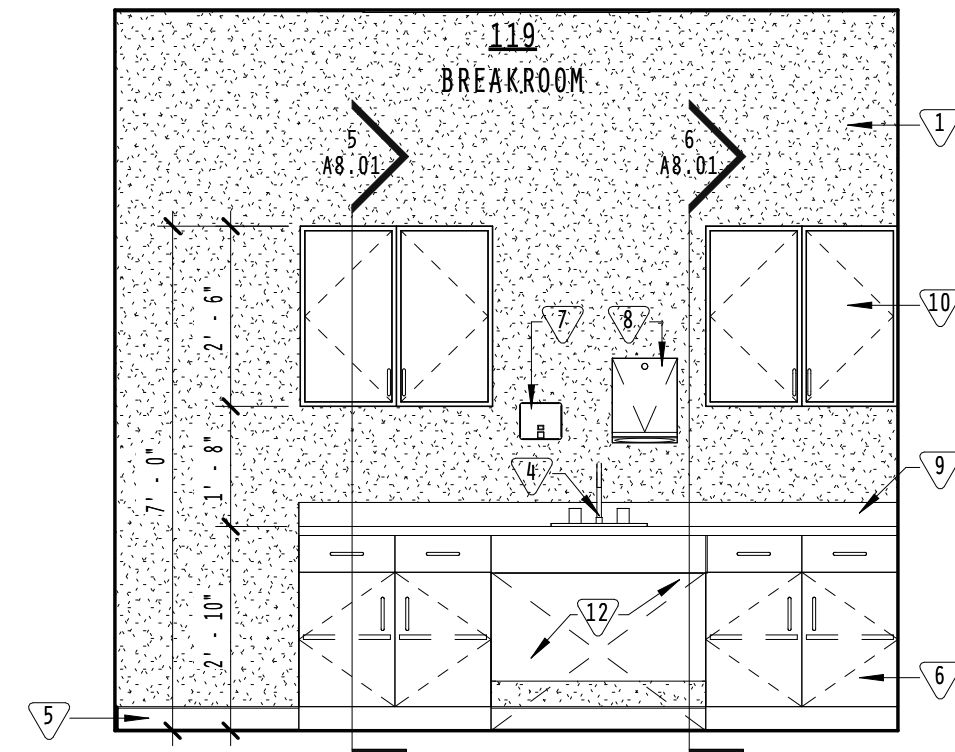


**SHEET KEYNOTES**

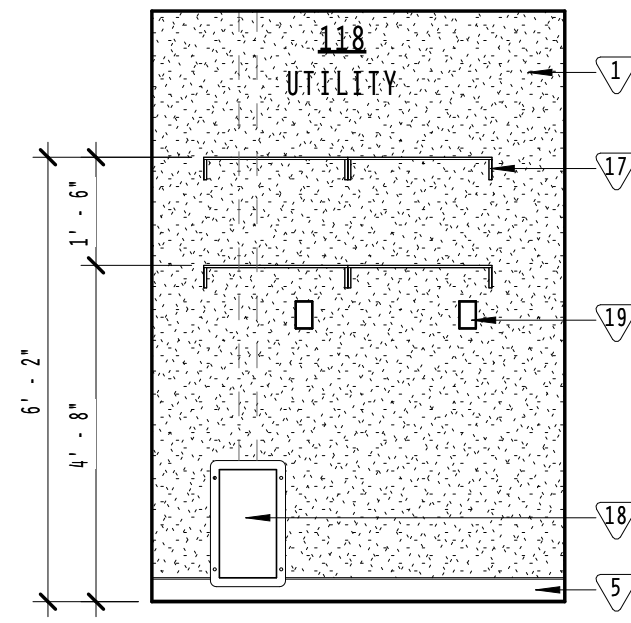
1. GYPSUM BOARD FINISH AS SCHEDULED
2. DOOR AS SCHEDULED
3. ALUMINUM SLIDING WINDOW REFER TYPE SCHEDULE
4. HAND SINK REFER MEP DRAWINGS
5. WALL BASE AS SCHEDULED
6. PAINTED BASE CABINET
7. SOAP DISPENSER (TA-2)
8. PAPER TOWEL DISPENSER (TA-3)
9. SOLID SURFACE COUNTER & BACKSPLASH
10. PAINTED WALL CABINET
11. PROVIDE 2" GROMMETS
12. KNEE SPACE
13. MOP & BROOM HOLDER
14. PLUMBING FIXTURE REFER MEP DRAWINGS
15. STAINLESS STEEL SPLASH PROTECTION
16. MOP SINK REFER MEP DRAWINGS
17. STAINLESS STEEL WALL SHELF (TA-10)
18. DRYERBOX AS SPECIFIED
19. ELECTRICAL OUTLETS REFER MEP DRAWINGS
20. 24" H X 24" WIDE WORK STATION BRACKETS BY A&M HARDWARE, INC



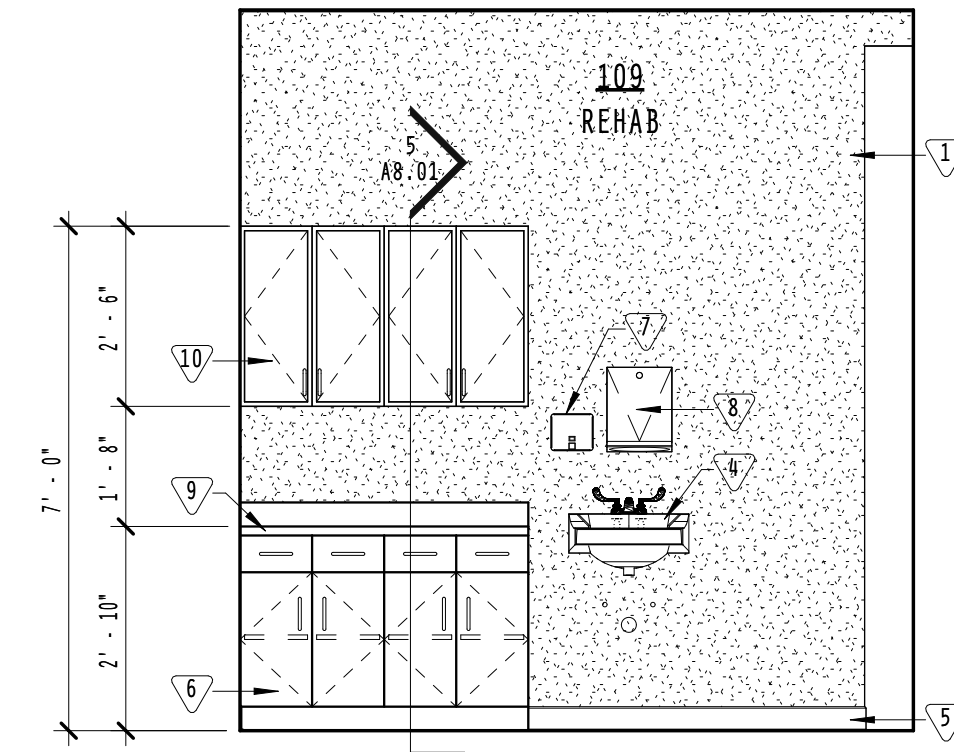
**12** INTERIOR ELEVATION  
3/8" = 1'-0"



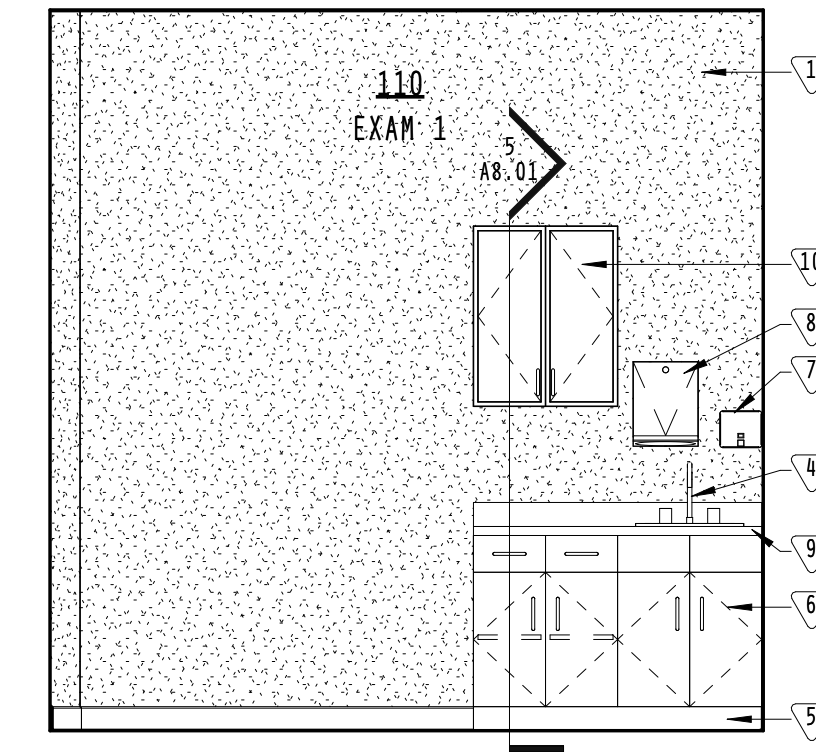
**11** INTERIOR ELEVATION  
3/8" = 1'-0"



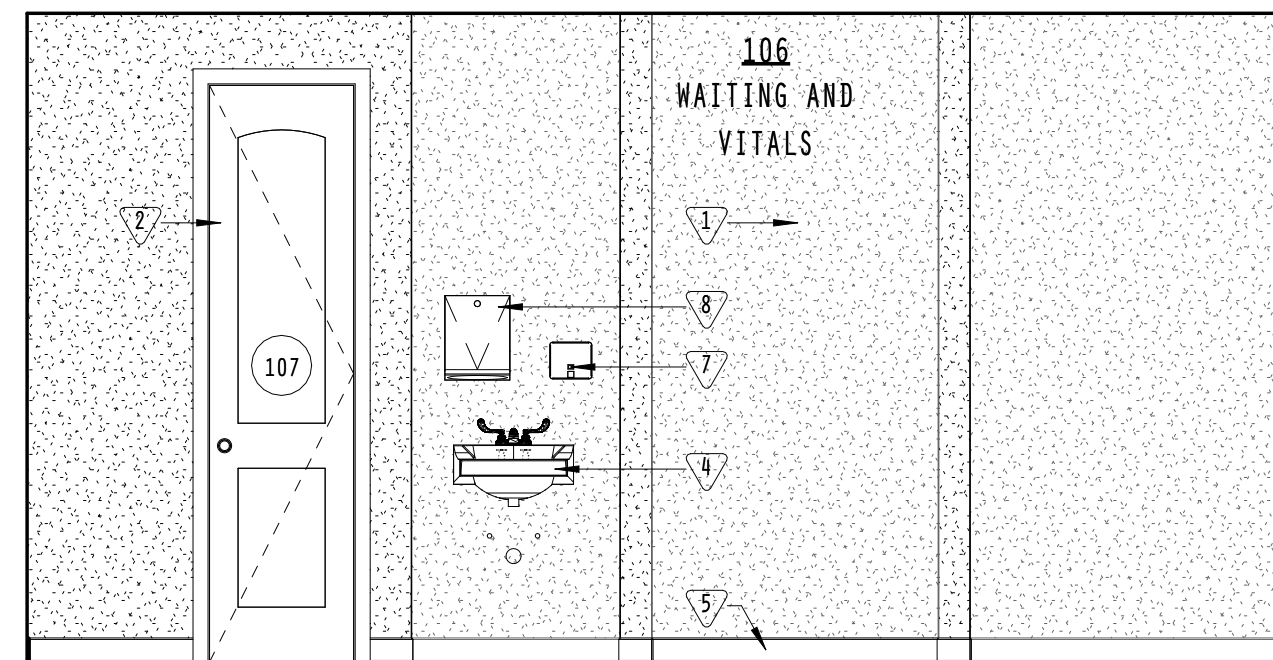
**10** INTERIOR ELEVATION  
3/8" = 1'-0"



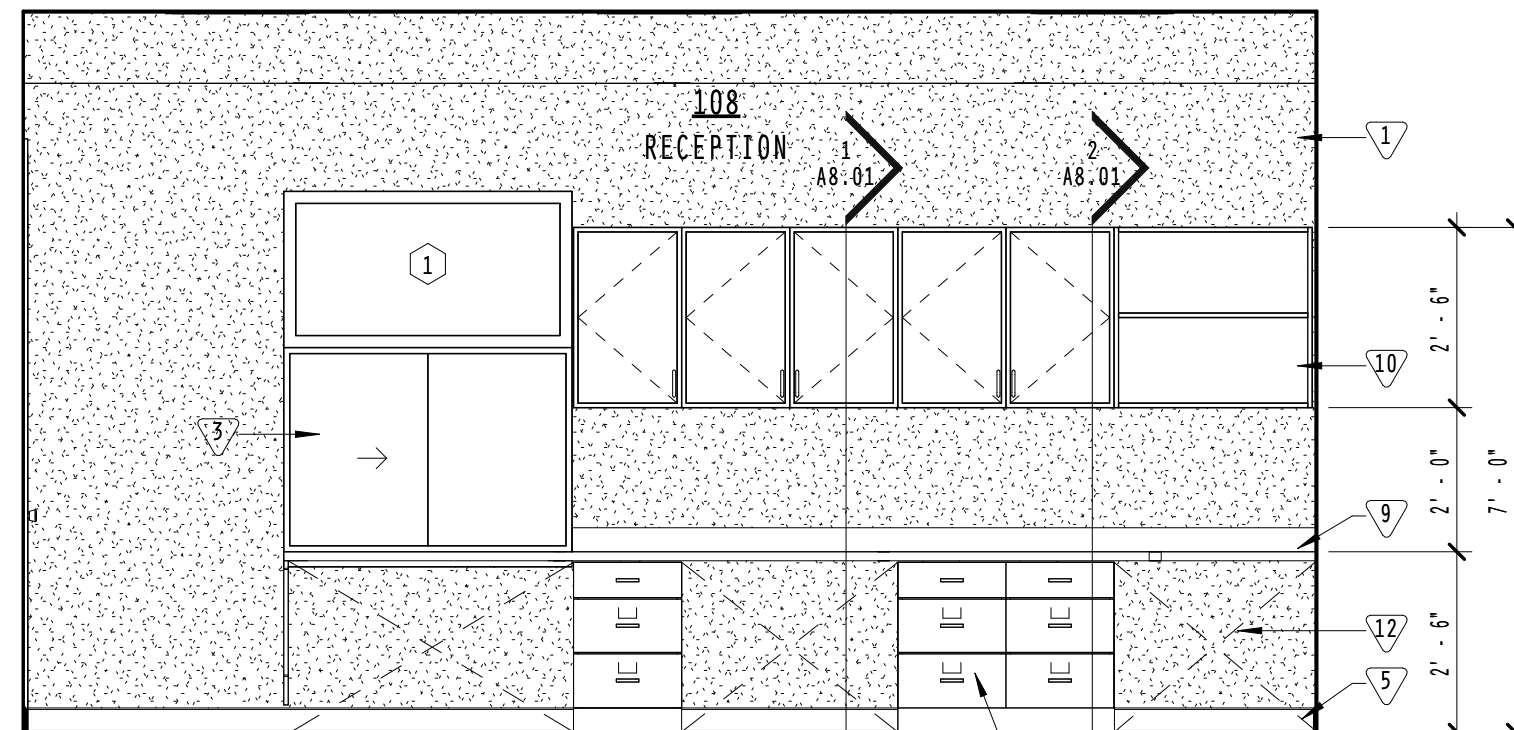
**9** INTERIOR ELEVATION  
3/8" = 1'-0"



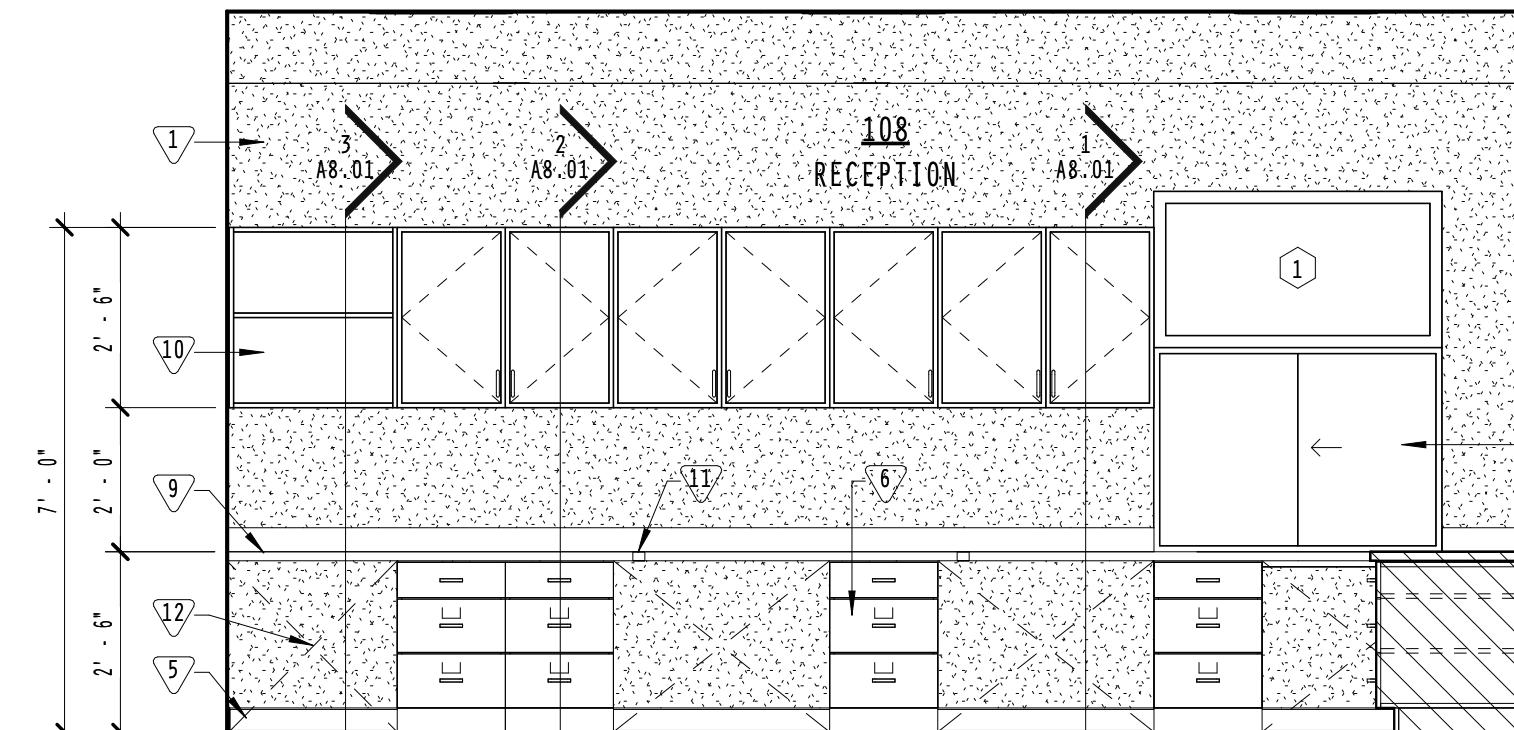
**8** INTERIOR ELEVATION  
3/8" = 1'-0"



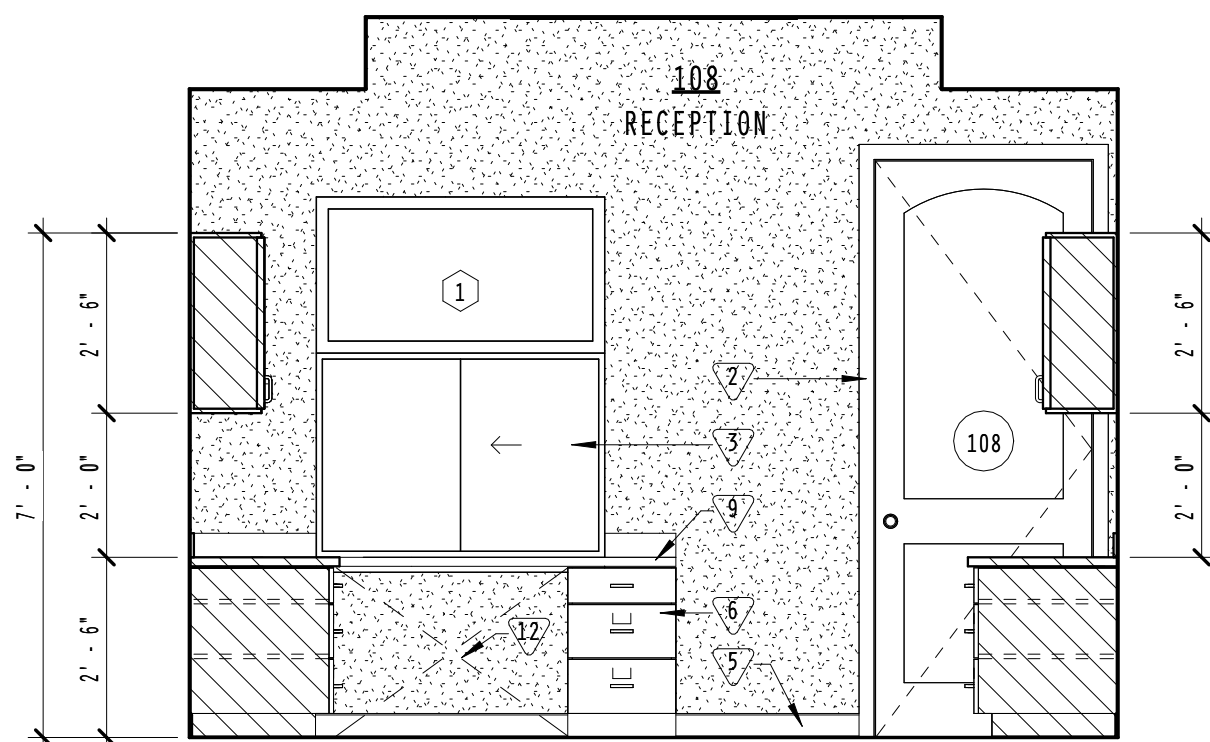
**7** INTERIOR ELEVATION  
3/8" = 1'-0"



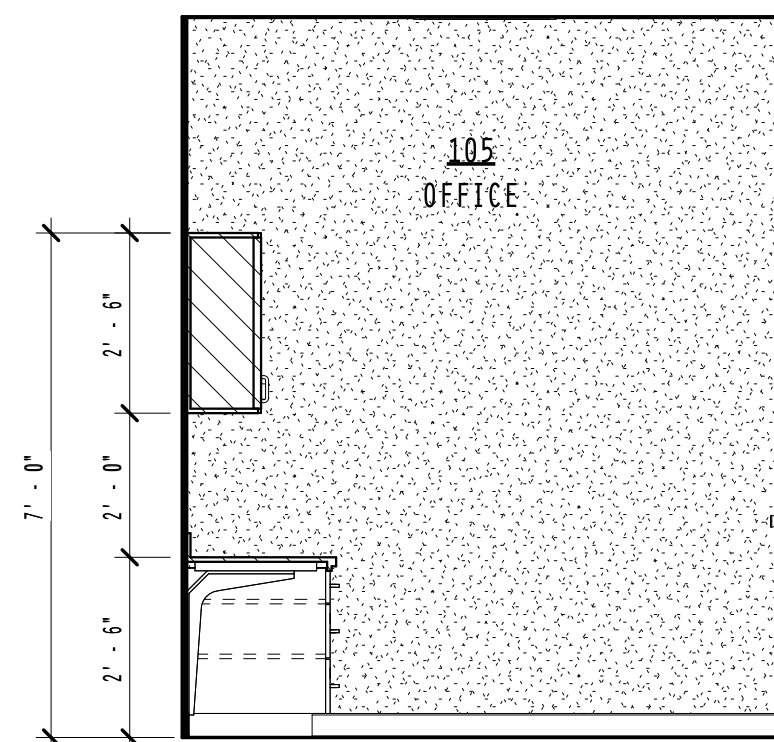
**6** INTERIOR ELEVATION  
3/8" = 1'-0"



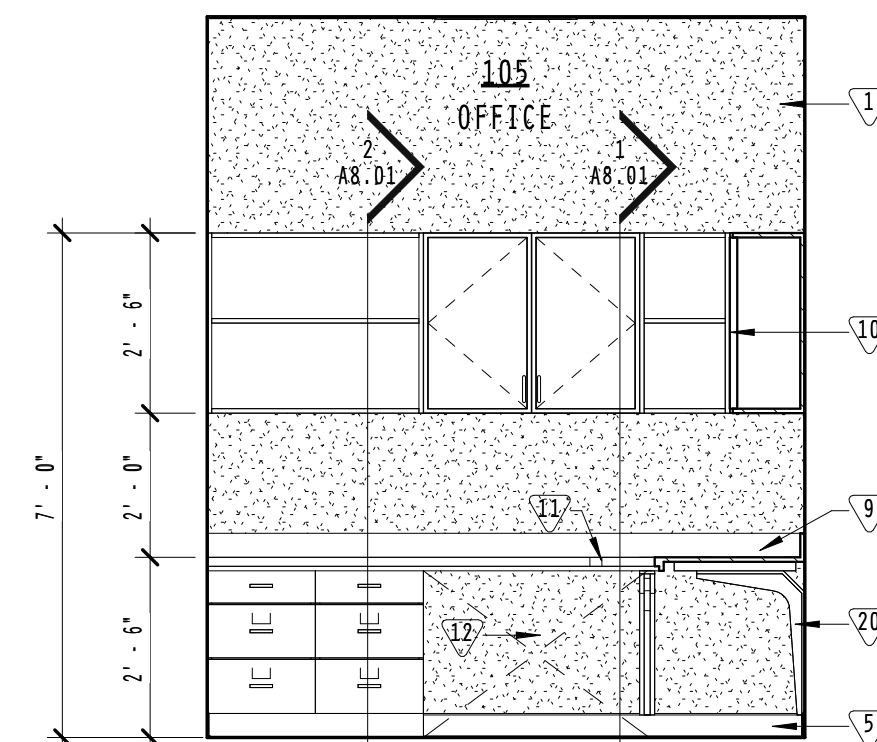
**5** INTERIOR ELEVATION  
3/8" = 1'-0"



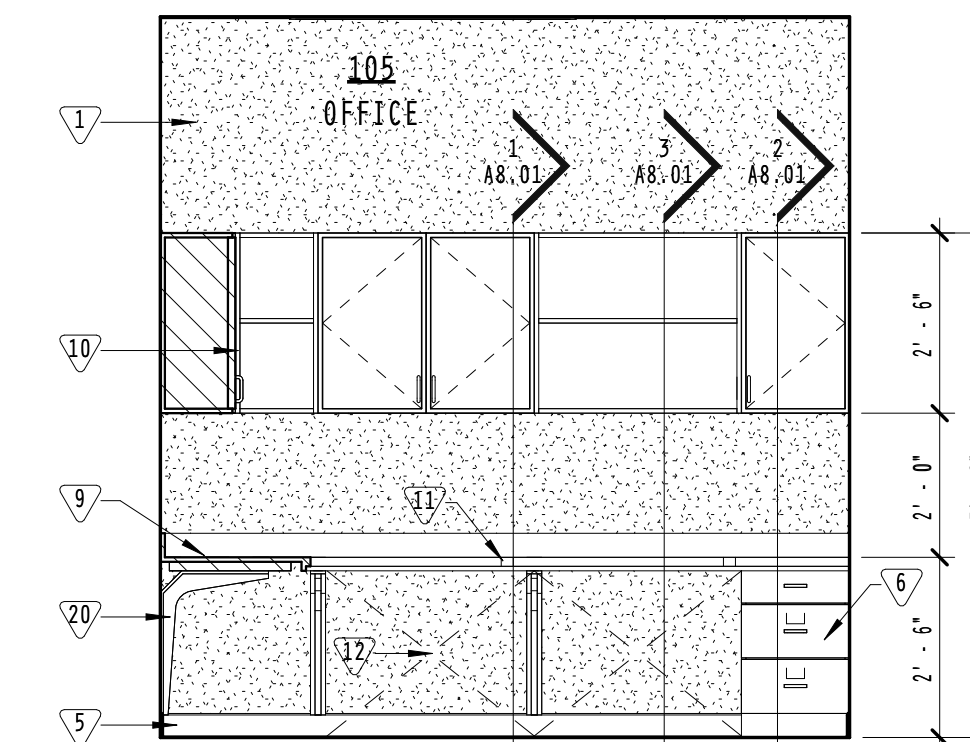
**4** INTERIOR ELEVATION  
3/8" = 1'-0"



**3** INTERIOR ELEVATION  
3/8" = 1'-0"



**2** INTERIOR ELEVATION  
3/8" = 1'-0"



**1** INTERIOR ELEVATION  
3/8" = 1'-0"

1 PERMIT SET 06/05/23  
No. DESCRIPTION DATE

06.05.23  
SAN GARCIA ARCHITECT  
1200 AUBURN AVE.,  
SUITE 280  
MCALLEN, TX 78504  
(956) 631-8327  
INFO@SANGARCIAARCHITECT.COM

**KHIT**  
**CHIROPRACTIC**  
**WELLNESS**

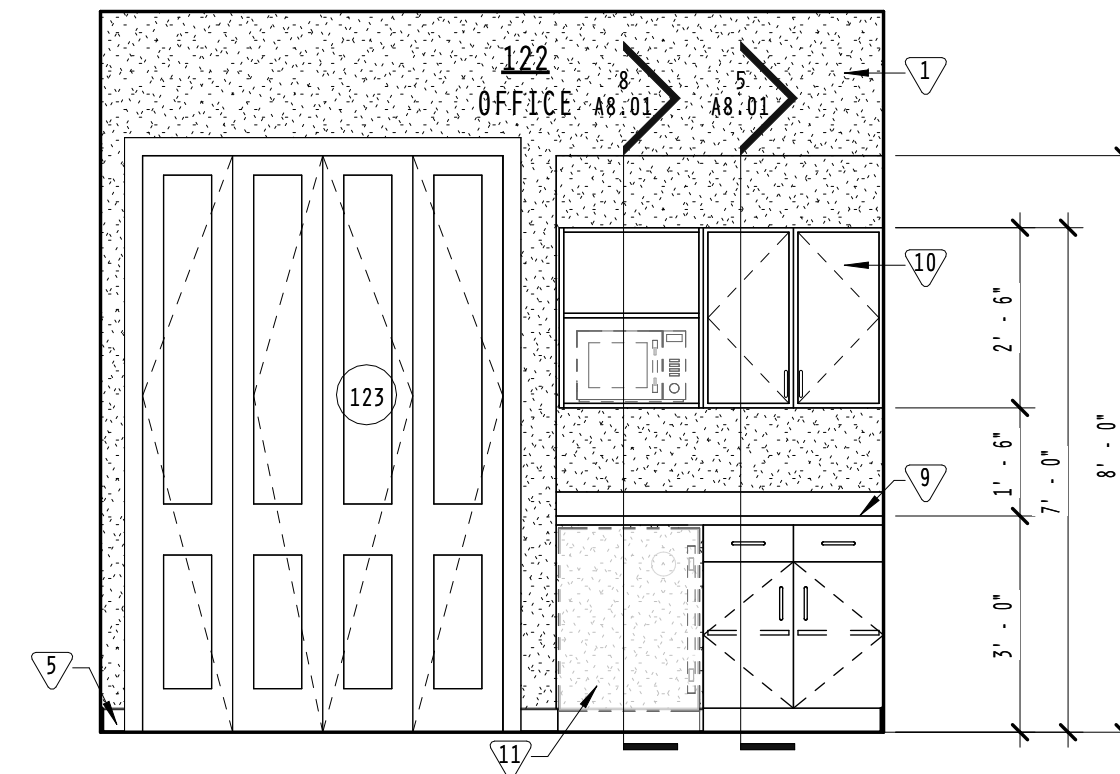
6151 E. POST ROAD,  
KYLE, TX 78640  
2022-008 06.05.23  
INTERIOR  
ELEVATIONS

**A6.01**

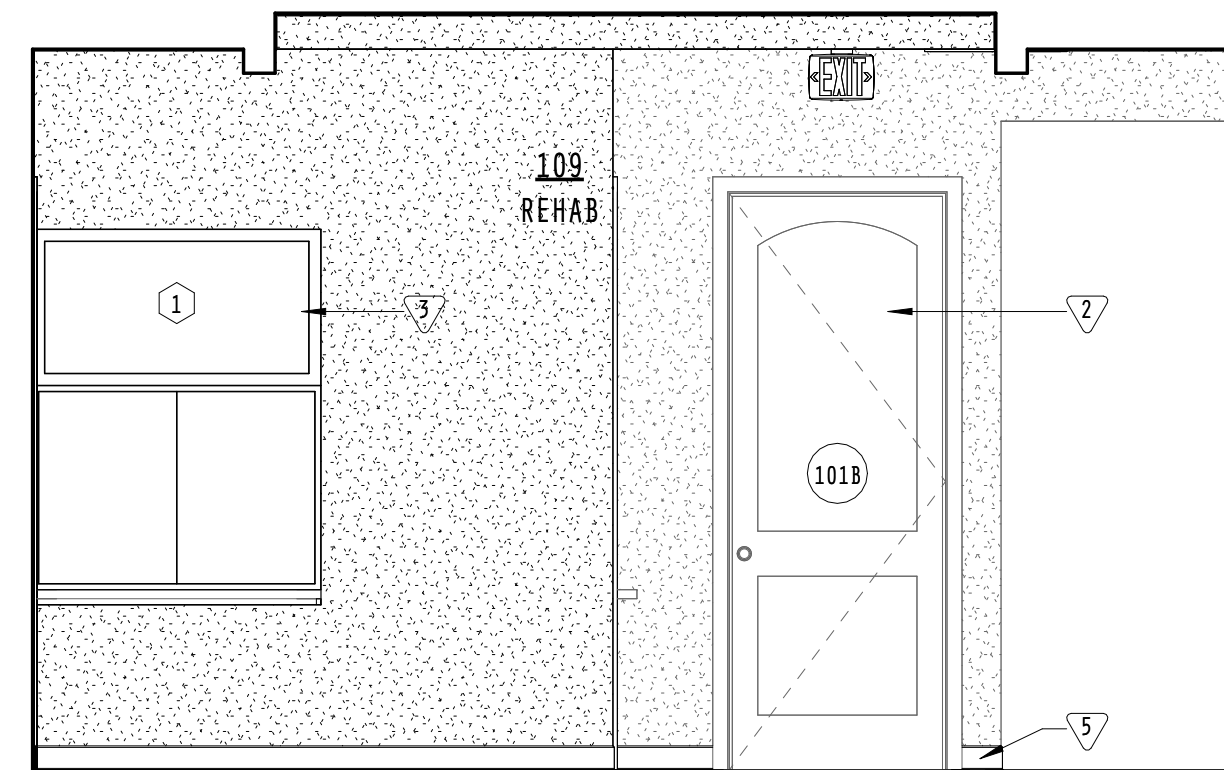


SHEET KEYNOTES

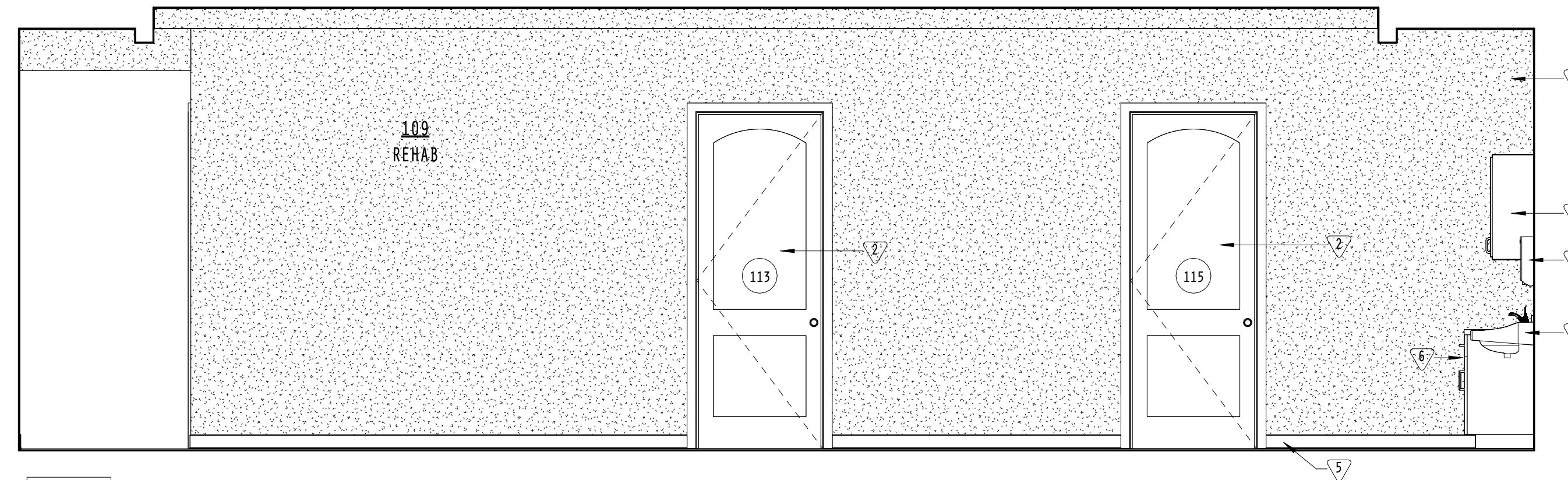
1. GYPSUM BOARD FINISH AS SCHEDULED
2. DOOR AS SCHEDULED
3. ALUMINUM SLIDING WINDOW REFER TYPE SCHEDULE
4. HAND SINK REFER MEP DRAWINGS
5. WALL BASE AS SCHEDULED
6. PAINTED BASE CABINET
7. SOAP DISPENSER (TA-2)
8. PAPER TOWEL DISPENSER (TA-5)
9. SOLID SURFACE COUNTER & BACKSPLASH
10. PAINTED WALL CABINET
11. UNDERCOUNTER REFRIGERATOR REFER FFE PLANS



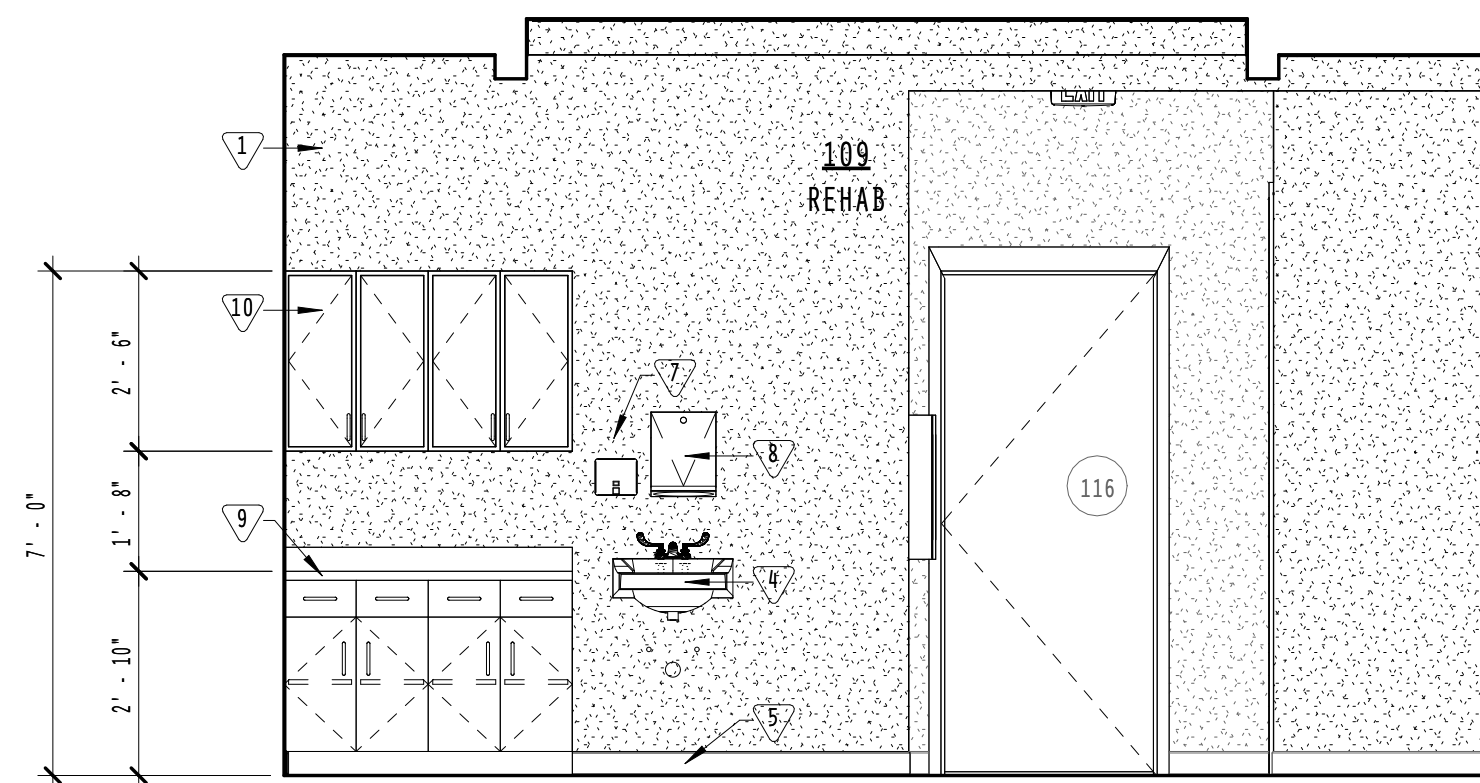
**5** INTERIOR ELEVATION  
3/8" = 1'-0"



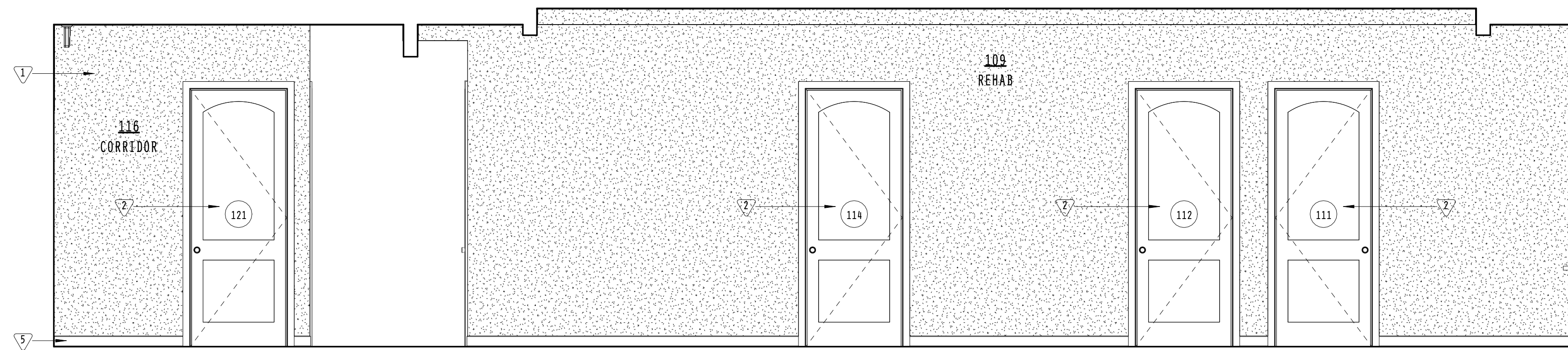
**4** INTERIOR ELEVATION  
3/8" = 1'-0"



**2** INTERIOR ELEVATION  
3/8" = 1'-0"



**3** INTERIOR ELEVATION  
3/8" = 1'-0"



**1** INTERIOR ELEVATION  
3/8" = 1'-0"

1	PERMIT SET	06/05/23
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 SAN GARCIA ARCHITECT  
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**KHIT**  
**CHIROPRACTIC**  
**WELLNESS**

6151 E. POST ROAD,  
 KYLE, TX 78640  
 2022-008 06.05.23  
 INTERIOR  
 ELEVATIONS

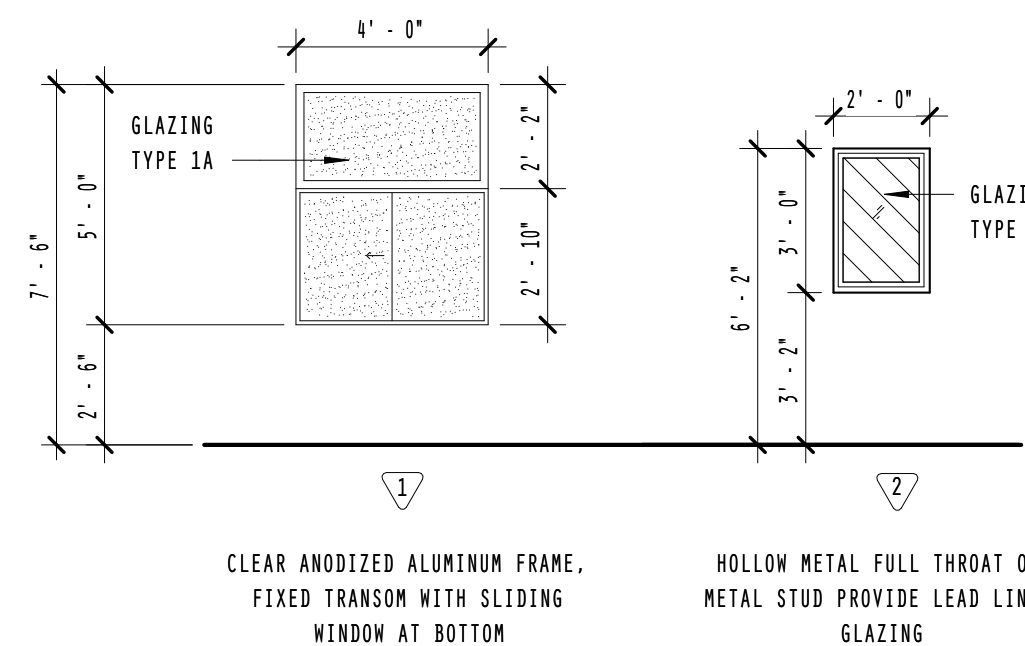
**A6.02**



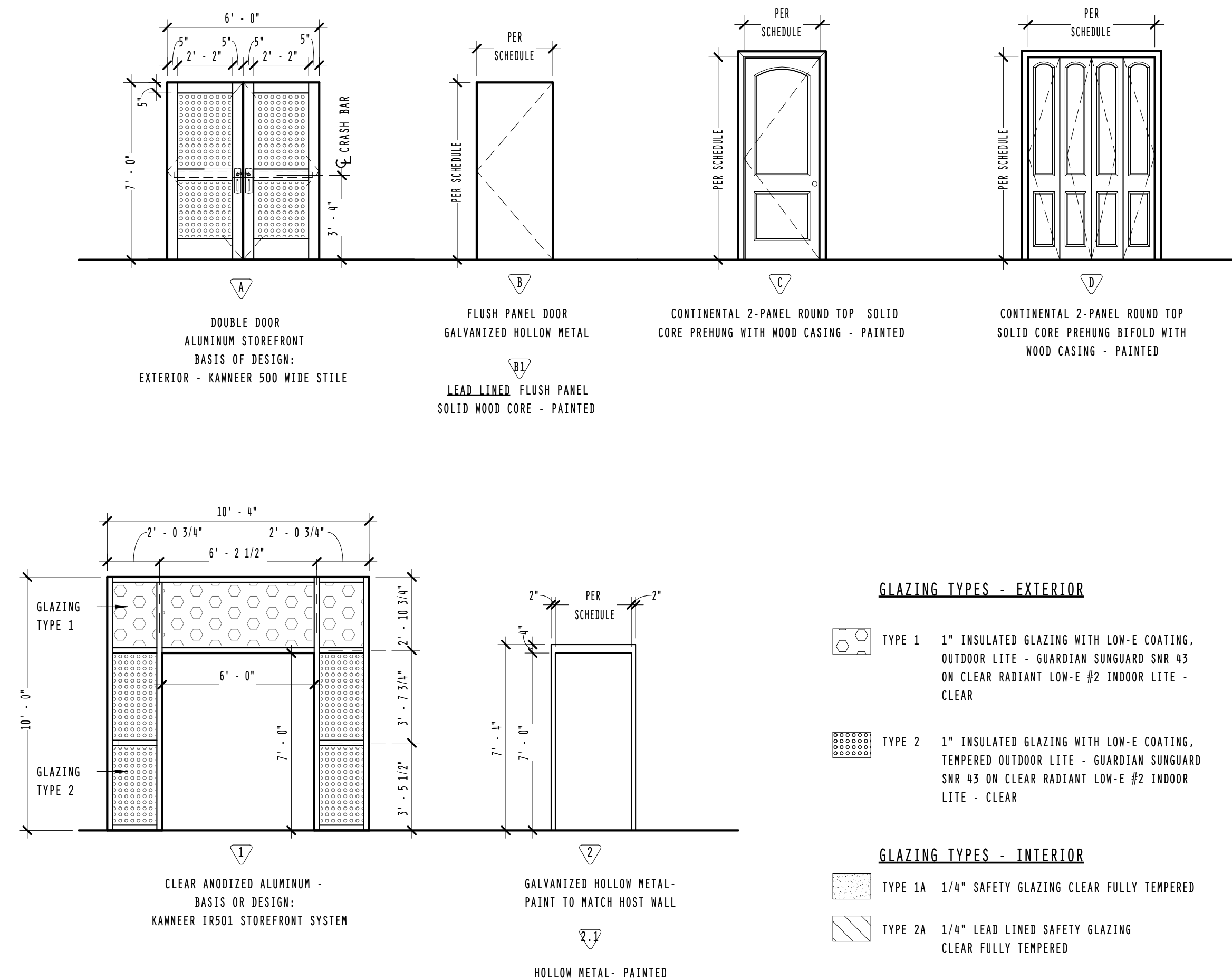
ROOM FINISH SCHEDULE										
ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING		NOTES
				NORTH	EAST	SOUTH	WEST	MATERIAL	HEIGHT	
101	LOBBY	VINYL	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	10'-0"	
102	CORRIDOR	VINYL	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	10'-0"	
103	CORRIDOR	VINYL	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	10'-0"	
104	X-RAY	VINYL	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	10'-0"	PROVIDE LEAD LINED GYPSUM BOARD NORTH & EAST WALLS ONLY
105	OFFICE	VINYL	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	10'-0"	
106	WAITING AND VITALS	VINYL	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	GYPSUM	9'-0"	
107	KC	VINYL	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	GYPSUM	9'-0"	
108	RECEPTION	VINYL	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	10'-0"	
109	REHAB	VINYL/CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
110	EXAM 1	VINYL	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	10'-0"	
111	THERAPY 1	VINYL	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	10'-0"	
112	THERAPY 2	VINYL	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	10'-0"	
113	THERAPY 4	VINYL	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	10'-0"	
114	THERAPY 3	VINYL	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	10'-0"	
115	THERAPY 5	VINYL	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	10'-0"	
116	CORRIDOR	VINYL	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	GYPSUM	10'-0"	
117	IT	STATIC CONTROL	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
118	UTILITY	VINYL	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
119	BREAKROOM	VINYL	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	10'-0"	
120	MEN	VINYL	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	GYPSUM	10'-0"	
121	WOMEN	VINYL	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	GYPSUM	10'-0"	
122	OFFICE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	GYPSUM	10'-0"	
123	STORAGE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	GYPSUM	9'-0"	
124	RESTROOM	TILE	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	GYPSUM	10'-0"	
125	ELECTRICAL	POLISHED CONCRETE	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	EXPOSED		
126	RISER	POLISHED CONCRETE	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	EXPOSED		

WINDOW SCHEDULE						
TYPE MARK	HEIGHT	WIDTH	HEAD	JAMB	SILL	COMMENTS
1	5' - 1"	4' - 0"				SLIDING GLASS
2	3' - 0"	2' - 0"	3/4".02	1/4".02	2/4".02	LEAD LINED

DOOR SCHEDULE																
MARK	TYPE	DOOR				FRAME				FIRE RATED	DETAILS			COMMENTS		
		OR PAIR	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	HARDWARE SET	TYPE		MATERIAL	FINISH	HEAD		JAMB	SILL
101A	A	PAIR	6' - 0"	7' - 0"	1 3/4"	GLASS	TEMPERED	002	1	ALUMINUM	ANODIZED	N/A	13/47.02	10/47.02	12/47.02	
101B	C	SINGLE	3' - 0"	8' - 0"	1 3/8"	SOLID WOOD	PAINTED	E201C	N/A	WOOD	PAINTED	N/A	6/47.02	4/47.02	5/47.02	PROVIDE ELECTRIFIED STRIKE
104	B1	SINGLE	3' - 0"	7' - 0"	1 3/4"	HOLLOW METAL	PAINT	L403	2.1	H.M.	PAINTED	N/A	9/47.02	7/47.02	8/47.02	LEAD LINED DOOR AND FRAME
105	C	SINGLE	3' - 0"	8' - 0"	1 3/8"	SOLID WOOD	PAINTED	103	N/A	WOOD	PAINTED	N/A	6/47.02	4/47.02	5/47.02	
107	C	SINGLE	2' - 0"	8' - 0"	1 3/8"	SOLID WOOD	PAINTED	303S	N/A	WOOD	PAINTED	N/A	6/47.02	4/47.02	5/47.02	
108	C	SINGLE	3' - 0"	8' - 0"	1 3/8"	SOLID WOOD	PAINTED	103	N/A	WOOD	PAINTED	N/A	6/47.02	4/47.02	5/47.02	
110	C	SINGLE	3' - 0"	8' - 0"	1 3/8"	SOLID WOOD	PAINTED	403	N/A	WOOD	PAINTED	N/A	6/47.02	4/47.02	5/47.02	
111	C	SINGLE	3' - 0"	8' - 0"	1 3/8"	SOLID WOOD	PAINTED	403	N/A	WOOD	PAINTED	N/A	6/47.02	4/47.02	5/47.02	
112	C	SINGLE	3' - 0"	8' - 0"	1 3/8"	SOLID WOOD	PAINTED	403	N/A	WOOD	PAINTED	N/A	6/47.02	4/47.02	5/47.02	
113	C	SINGLE	3' - 0"	8' - 0"	1 3/8"	SOLID WOOD	PAINTED	403	N/A	WOOD	PAINTED	N/A	6/47.02	4/47.02	5/47.02	
114	C	SINGLE	3' - 0"	8' - 0"	1 3/8"	SOLID WOOD	PAINTED	403	N/A	WOOD	PAINTED	N/A	6/47.02	4/47.02	5/47.02	
115	C	SINGLE	3' - 0"	8' - 0"	1 3/8"	SOLID WOOD	PAINTED	403	N/A	WOOD	PAINTED	N/A	6/47.02	4/47.02	5/47.02	
116	B	SINGLE	3' - 0"	7' - 0"	1 3/4"	G.H.M.	PAINTED	205	2	G.H.M.	PAINTED	N/A	16/47.02	14/47.02	15/47.02	
117	C	SINGLE	3' - 0"	8' - 0"	1 3/8"	SOLID WOOD	PAINTED	203S	N/A	WOOD	PAINT	N/A	6/47.02	4/47.02	5/47.02	
118	D	BIFOLD	5' - 0"	8' - 0"	1 1/2"	SOLID WOOD	PAINTED	001	N/A	WOOD	PAINTED	N/A	6/47.02	4/47.02	5/47.02	
119	C	SINGLE	3' - 0"	8' - 0"	1 3/8"	SOLID WOOD	PAINTED	403	N/A	WOOD	PAINTED	N/A	6/47.02	4/47.02	5/47.02	
120	C	SINGLE	3' - 0"	8' - 0"	1 3/8"	SOLID WOOD	PAINTED	301	N/A	WOOD	PAINTED	N/A	6/47.02	4/47.02	5/47.02	
121	C	SINGLE	3' - 0"	8' - 0"	1 3/8"	SOLID WOOD	PAINTED	301	N/A	WOOD	PAINTED	N/A	6/47.02	4/47.02	5/47.02	
122	B	SINGLE	3' - 0"	7' - 0"	1 3/4"	G.H.M.	PAINTED	105	2	G.H.M.	PAINTED	N/A	16/47.02	14/47.02	15/47.02	
123	D	BIFOLD	5' - 0"	8' - 0"	1 1/2"	SOLID WOOD	PAINTED	001	N/A	WOOD	PAINTED	N/A	6/47.02	4/47.02	5/47.02	
124	C	SINGLE	2' - 6"	8' - 0"	1 3/8"	SOLID WOOD	PAINTED	303	N/A	WOOD	PAINT		6/47.02	4/47.02	5/47.02	
125	B	SINGLE	3' - 0"	7' - 0"	1 3/4"	G.H.M.	PAINTED	205	2	G.H.M.	PAINTED	N/A	16/47.02	14/47.02	15/47.02	
126	B	SINGLE	3' - 0"	7' - 0"	1 3/4"	G.H.M.	PAINTED	205	2	G.H.M.	PAINTED	N/A	16/47.02	14/47.02	15/47.02	
201	A	PAIR	6' - 0"	7' - 0"	1 3/4"	GLASS	TEMPERED	002	1	ALUMINUM	ANODIZED	N/A	13/47.02	10/47.02	12/47.02	
202	B	SINGLE	3' - 0"	7' - 0"	1 3/4"	G.H.M.	PAINTED	205	2	G.H.M.	PAINTED	N/A	16/47.02	14/47.02	15/47.02	



**2** WINDOW TYPE ELEVATION  
1/4" = 1'-0"



**1** DOOR & FRAME ELEVATIONS  
1/4" = 1'-0"

- GLAZING TYPES - EXTERIOR**
- TYPE 1: 1" INSULATED GLAZING WITH LOW-E COATING, OUTDOOR LITE - GUARDIAN SUNGUARD SNR 43 ON CLEAR RADIANT LOW-E #2 INDOOR LITE - CLEAR
  - TYPE 2: 1" INSULATED GLAZING WITH LOW-E COATING, TEMPERED OUTDOOR LITE - GUARDIAN SUNGUARD SNR 43 ON CLEAR RADIANT LOW-E #2 INDOOR LITE - CLEAR
- GLAZING TYPES - INTERIOR**
- TYPE 1A: 1/4" SAFETY GLAZING CLEAR FULLY TEMPERED
  - TYPE 2A: 1/4" LEAD LINED SAFETY GLAZING CLEAR FULLY TEMPERED

1 PERMIT SET 06/05/23  
No. DESCRIPTION DATE

REGISTERED ARCHITECT  
STATE OF TEXAS  
21335

06.05.23

SAN GARCIA ARCHITECT  
1200 AUBURN AVE.,  
SUITE 280  
MCALLEN, TX 78504  
(956) 631-8327  
INFO@SANGARCIAARCHITECT.COM

**KHIT CHIROPRACTIC WELLNESS**

6151 E. POST ROAD,  
KYLE, TX 78640

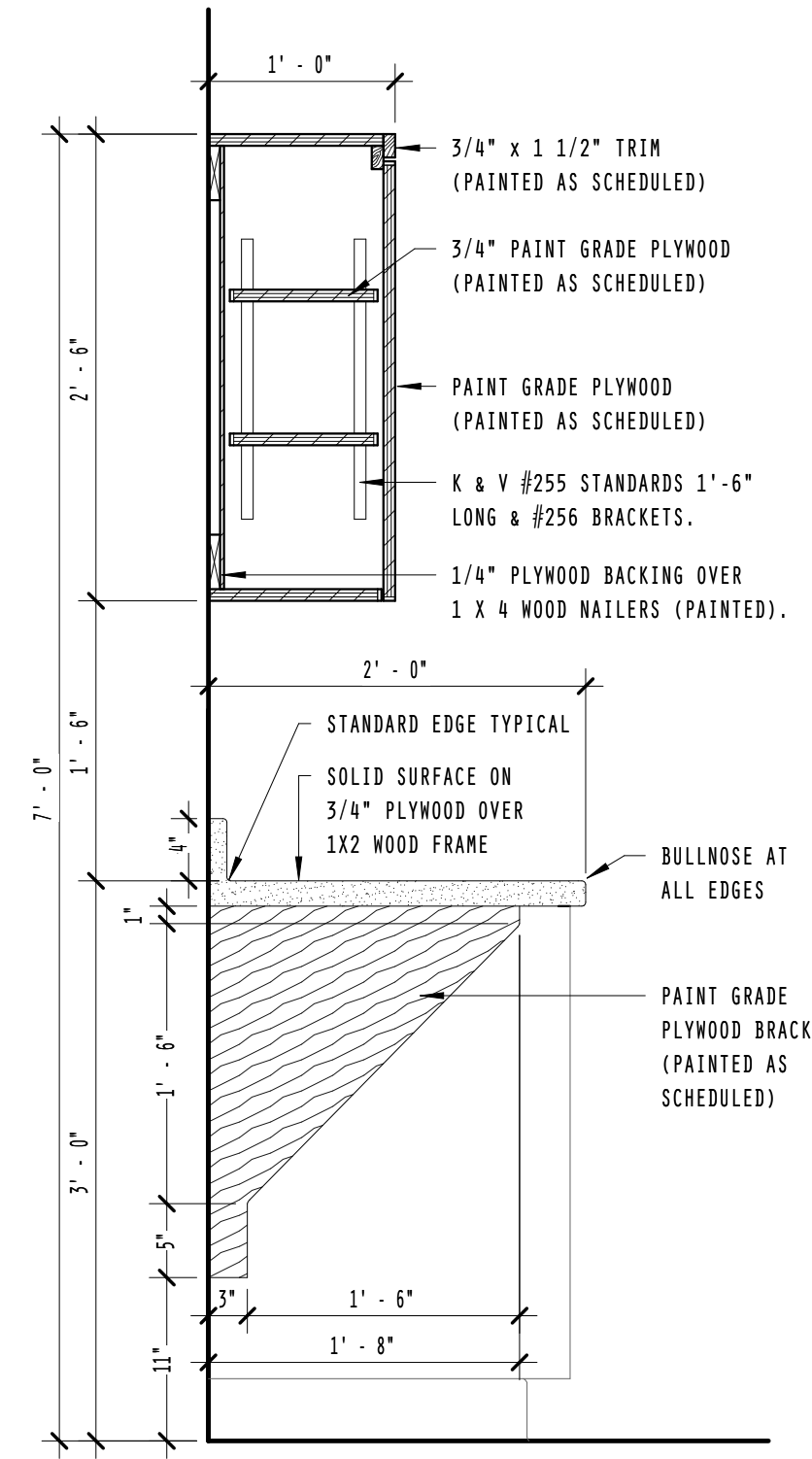
2022-008 06.05.23

SCHEDULES

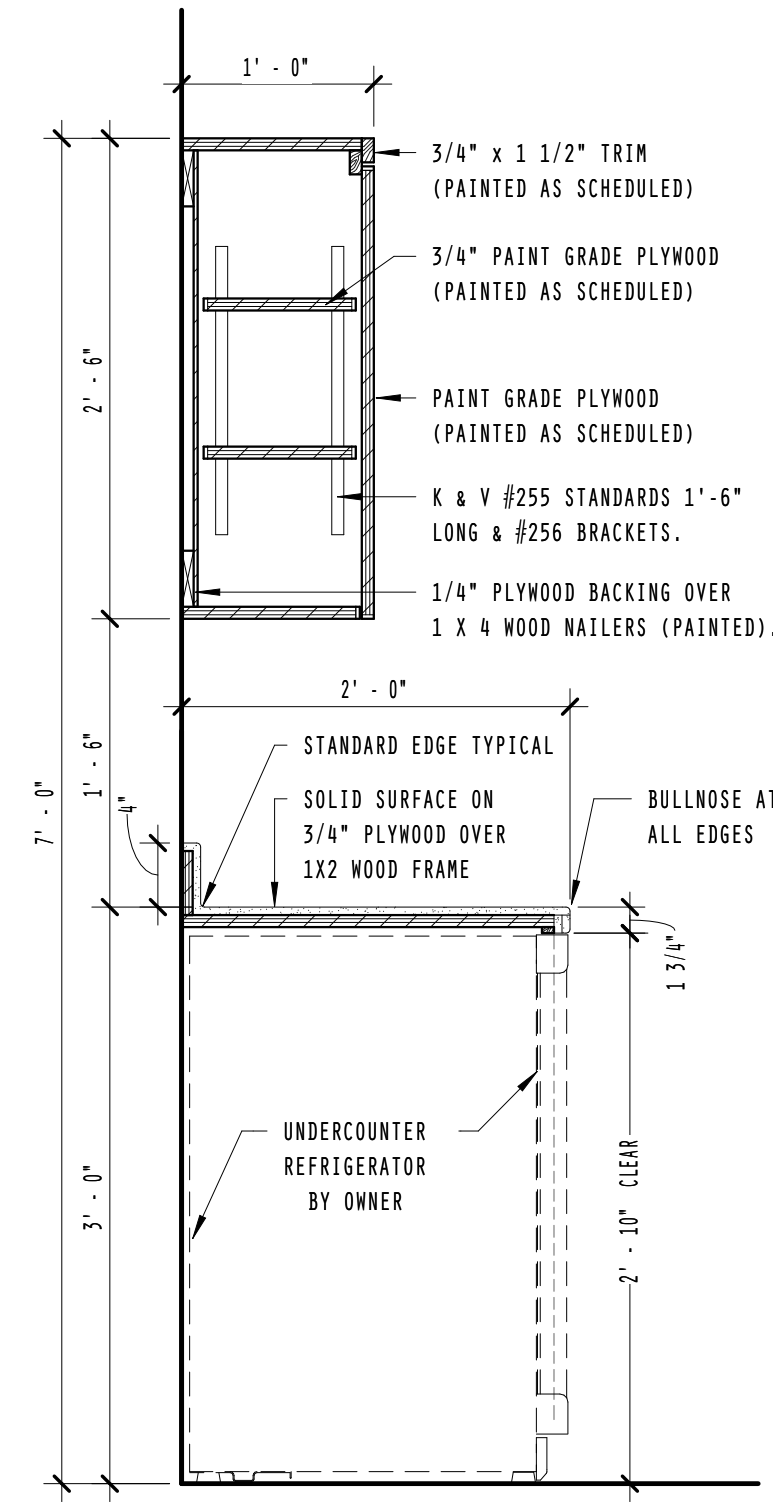
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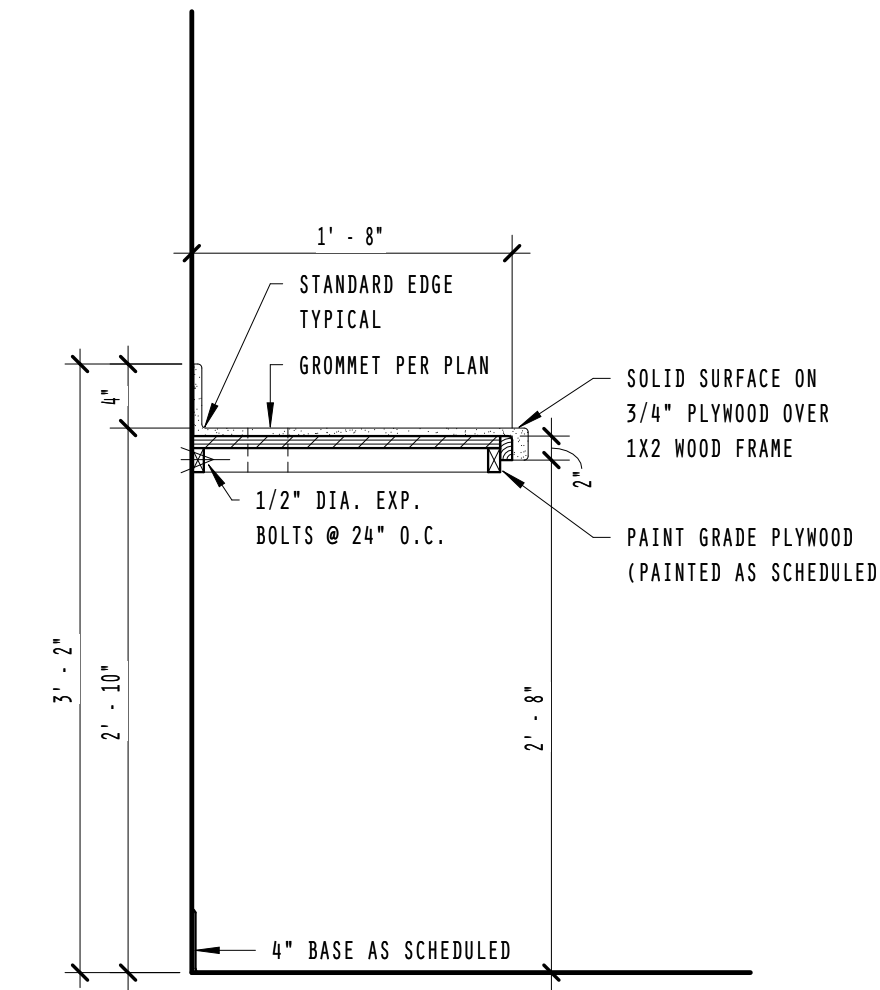




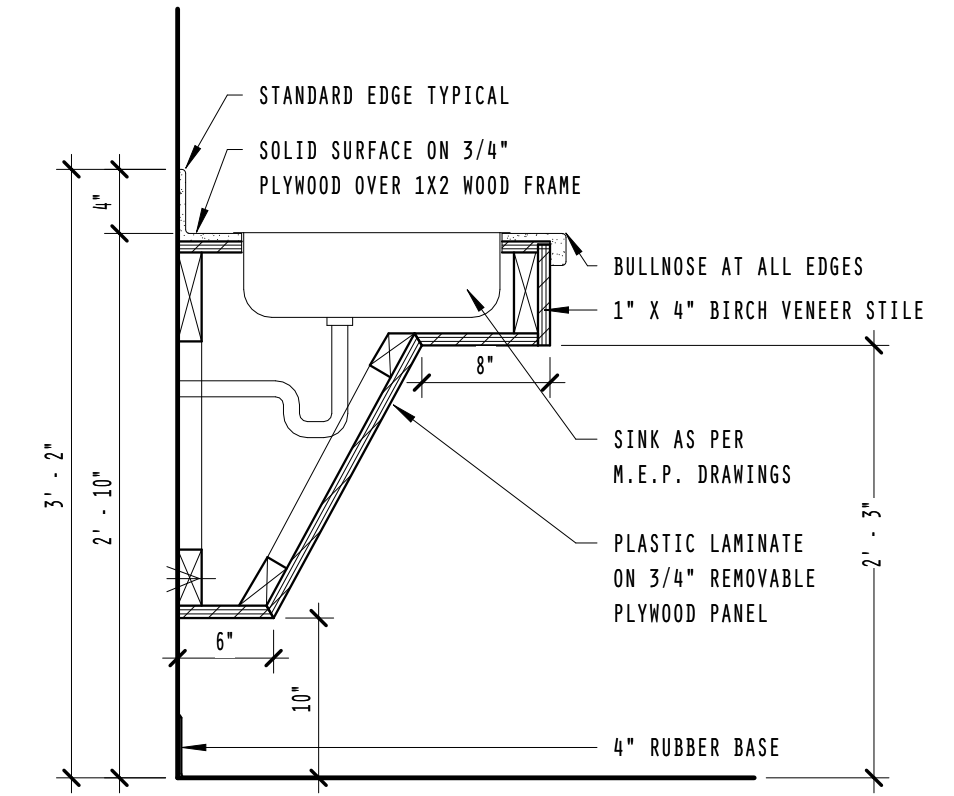
**9** MILLWORK SECTION  
1" = 1'-0"



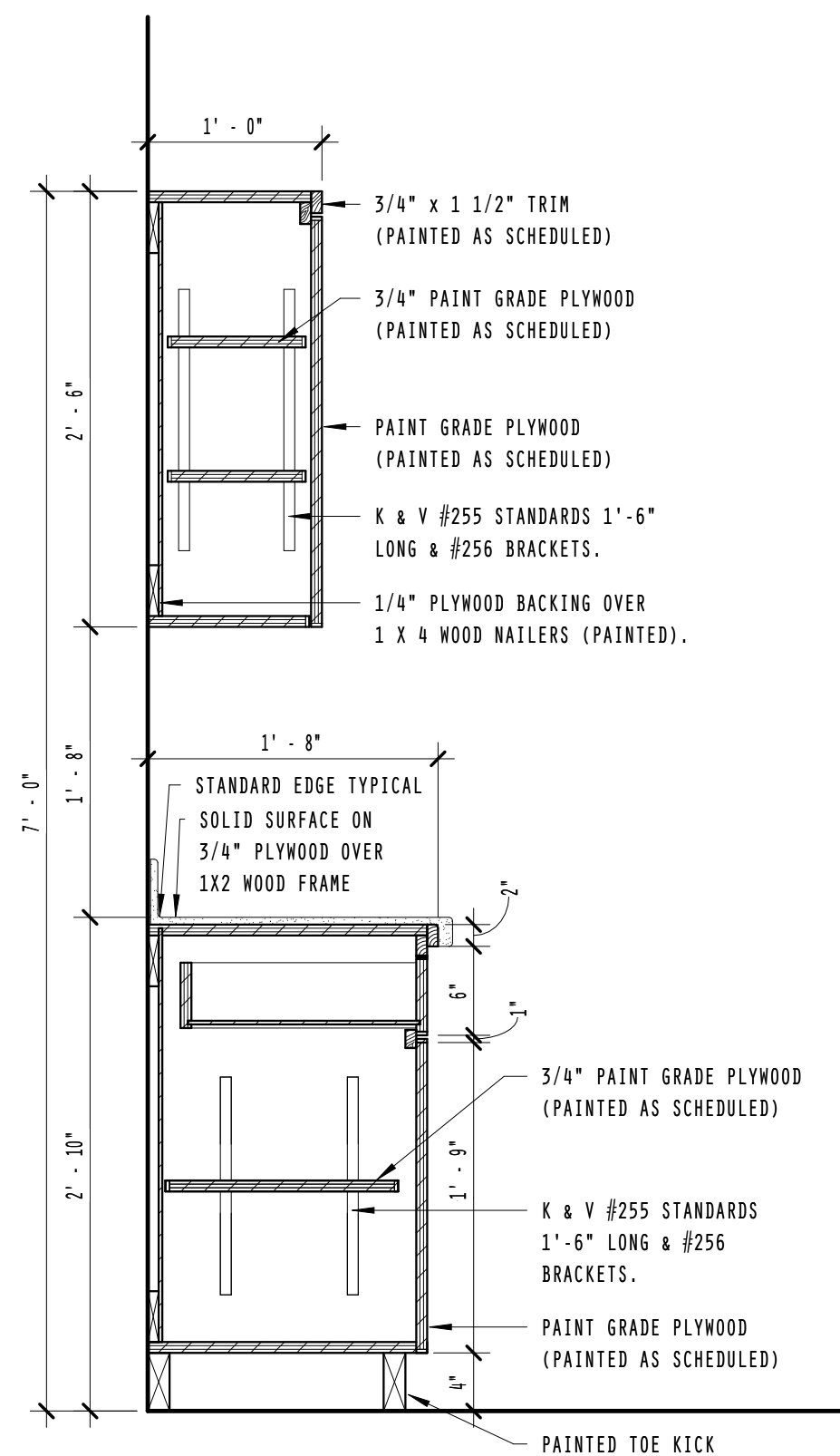
**8** MILLWORK SECTION  
1" = 1'-0"



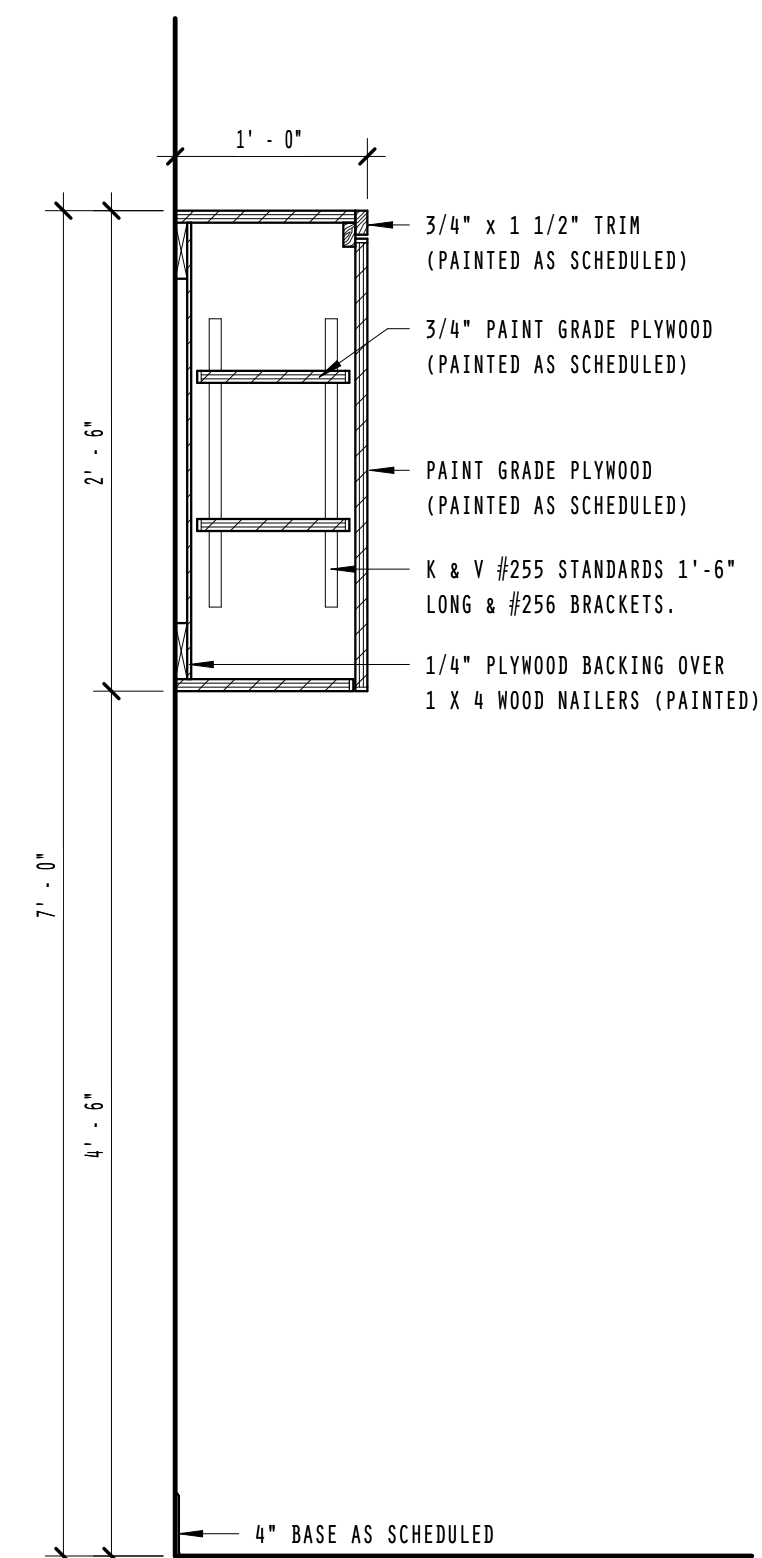
**7** MILLWORK SECTION  
1" = 1'-0"



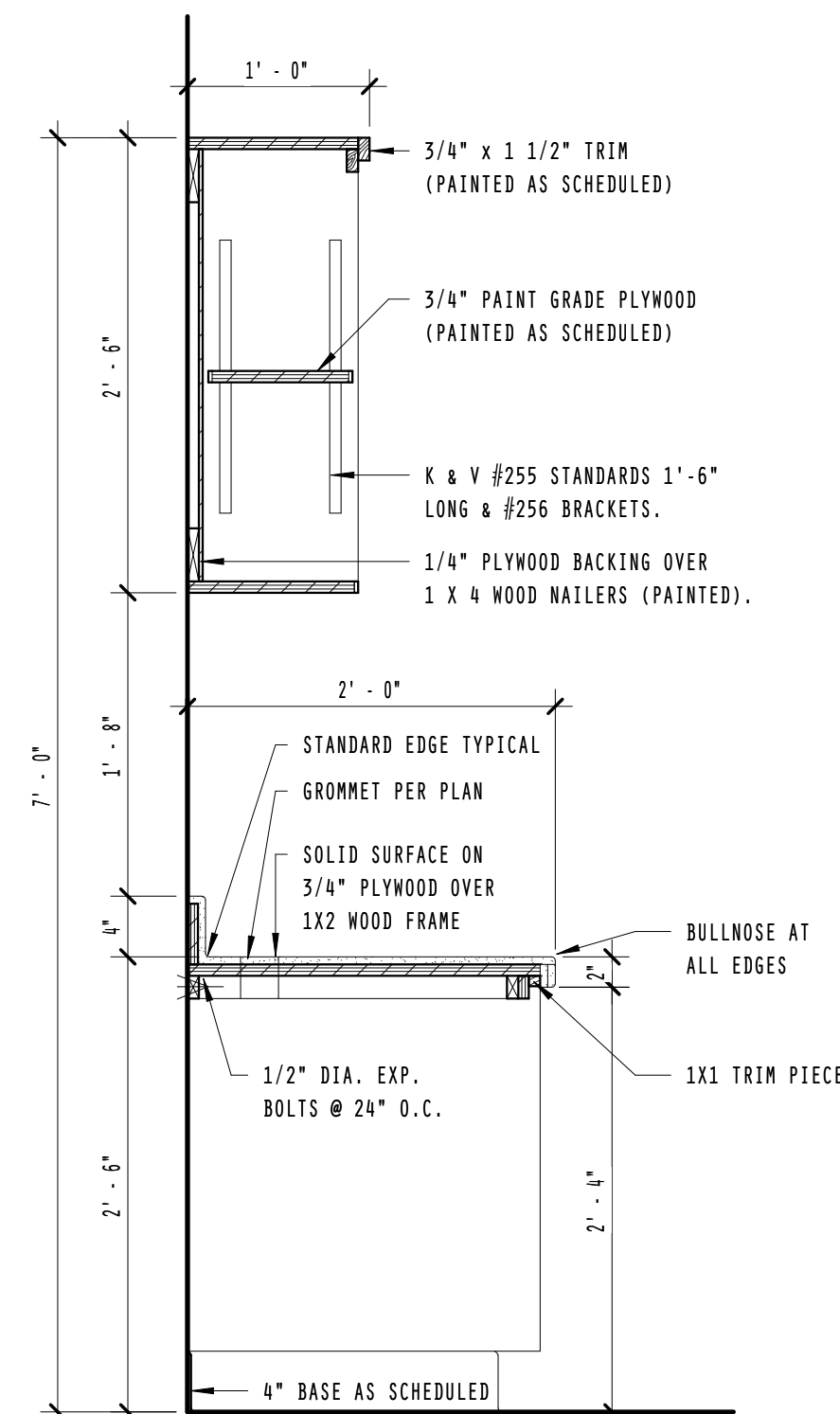
**6** MILLWORK SECTIONS  
1" = 1'-0"



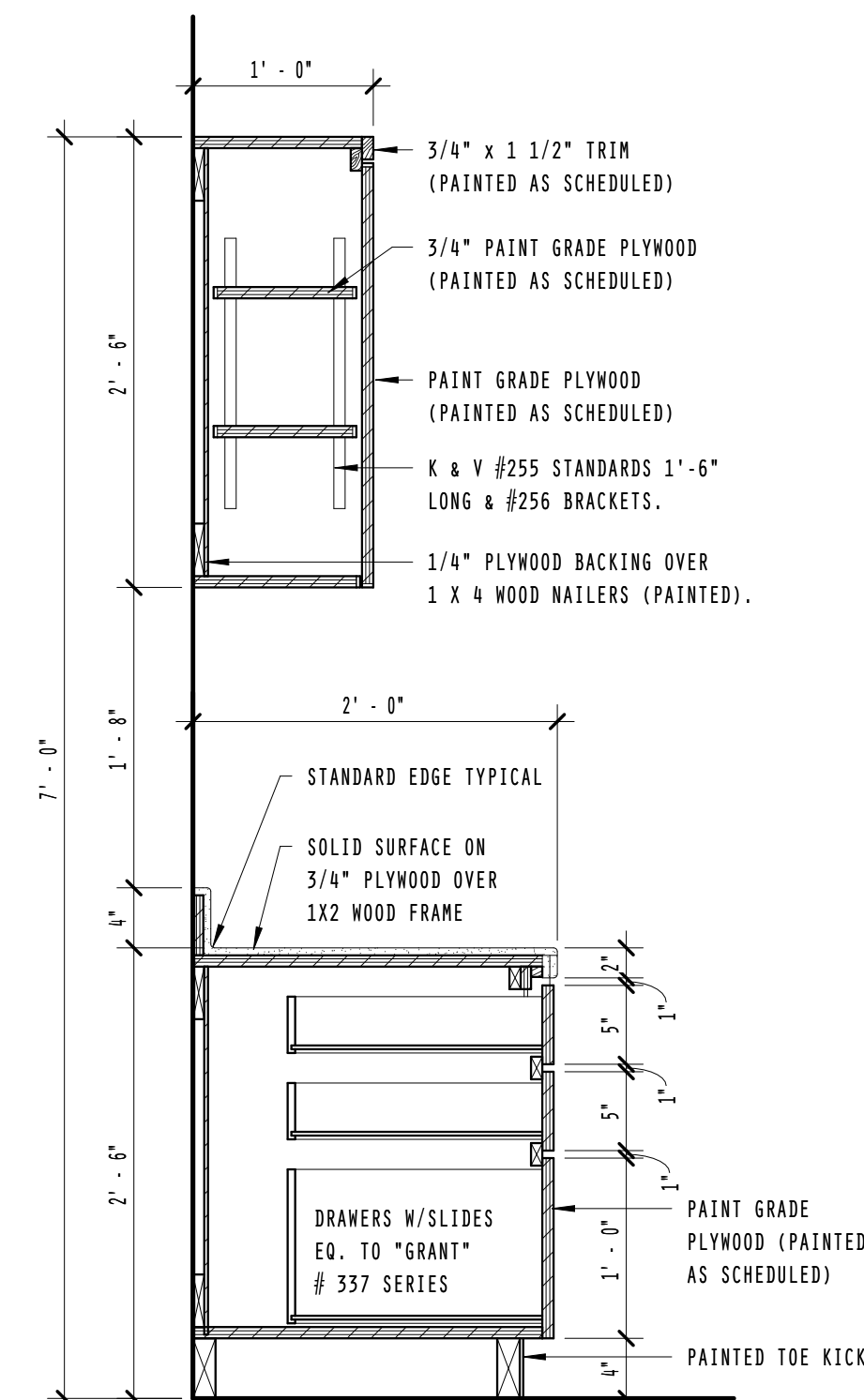
**5** MILLWORK SECTION  
1" = 1'-0"



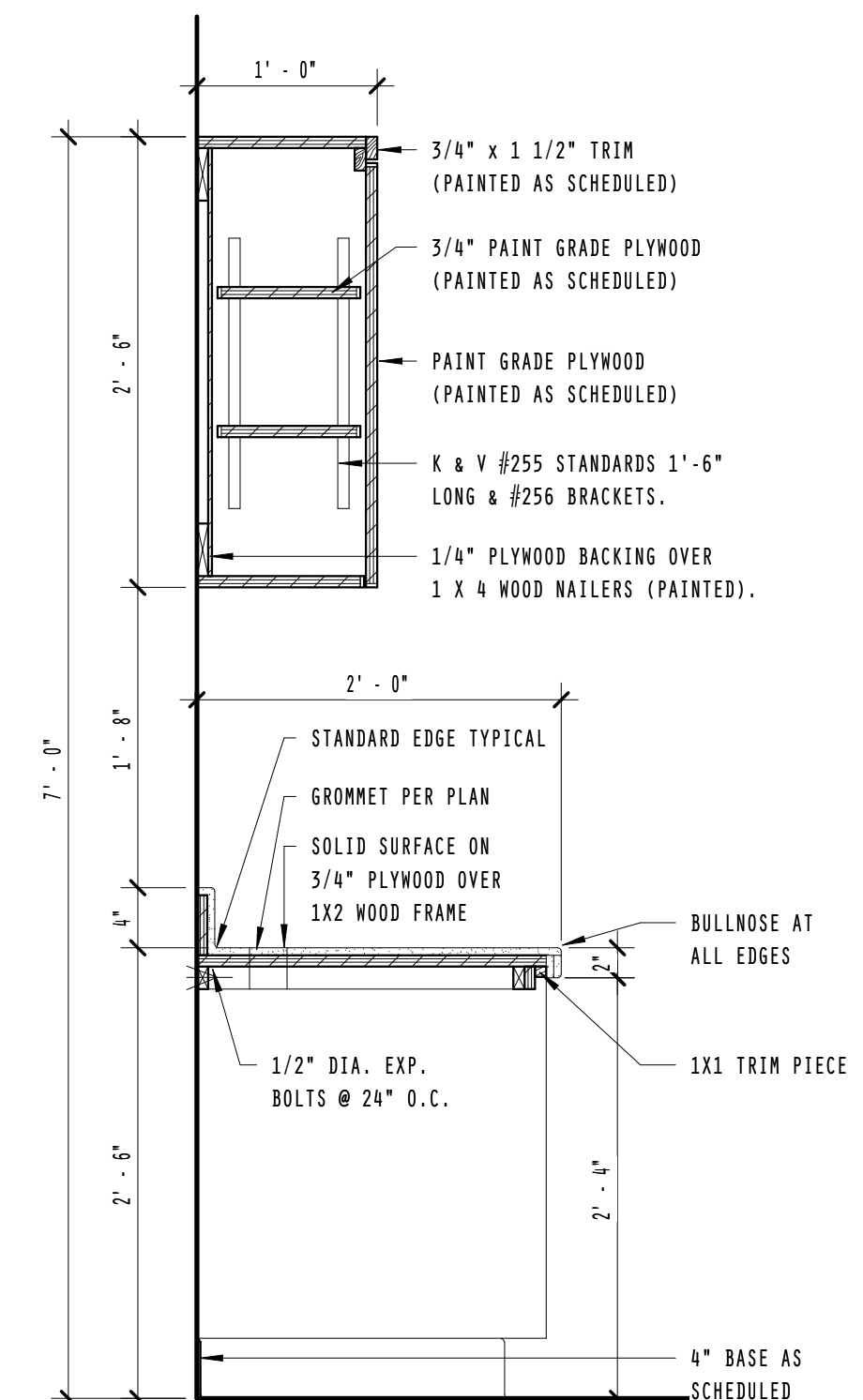
**4** MILLWORK SECTION  
1" = 1'-0"



**3** MILLWORK SECTION  
1" = 1'-0"

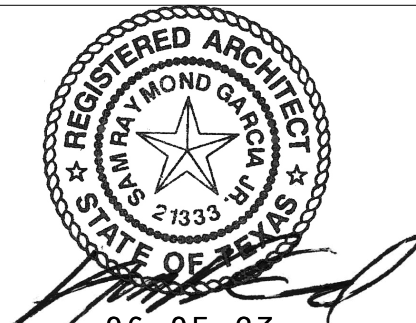


**2** MILLWORK SECTION  
1" = 1'-0"



**1** MILLWORK SECTION  
1" = 1'-0"

1	PERMIT SET	06/05/23
No.	DESCRIPTION	DATE



06.05.23

**SAN GARCIA ARCHITECT**  
1200 AUBURN AVE., SUITE 280  
MCALLEN, TX 78504  
(956) 631-8327  
INFO@SANGARCIAARCHITECT.COM

**KHIT CHIROPRACTIC WELLNESS**

6151 E. POST ROAD, KYLE, TX 78640

2022-008	06.05.23
MILLWORK	
DETAILS	

**A8.01**



**SHEET KEYNOTES**

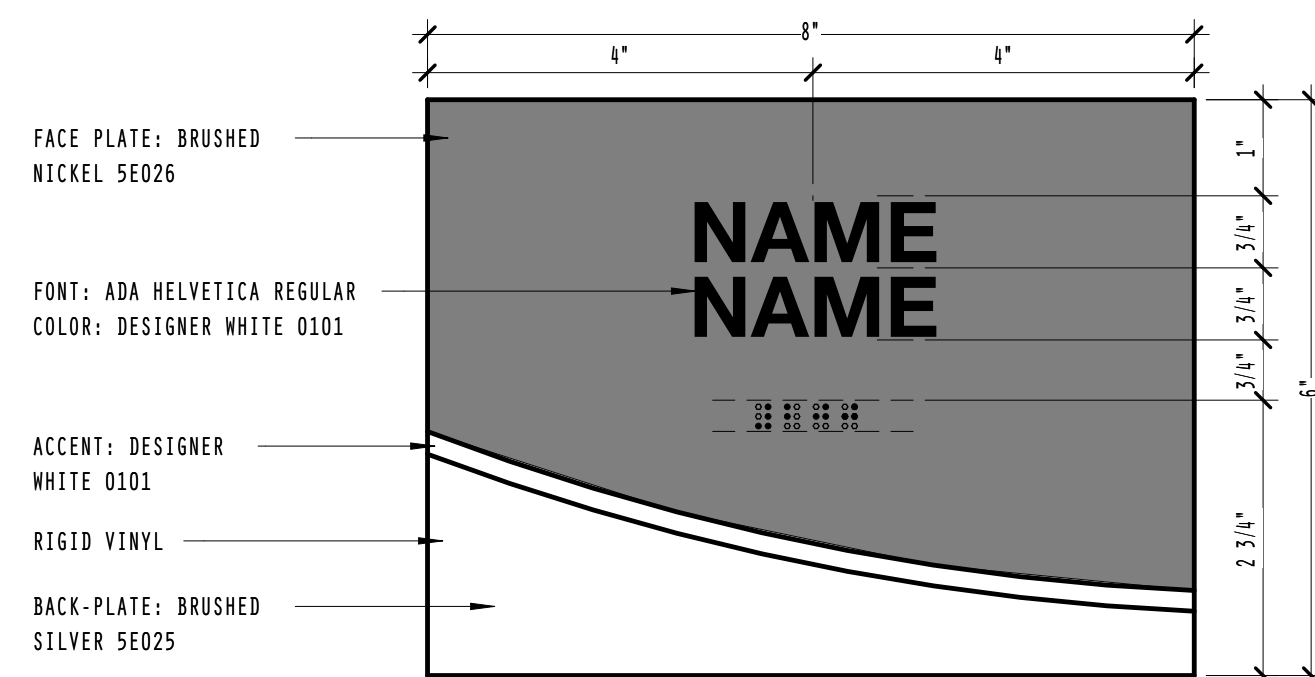
1. TYPE 1 (MALE RR)
2. TYPE 2 (FEMALE RR)
3. TYPE 3 MULTI LINE

**GENERAL NOTE**

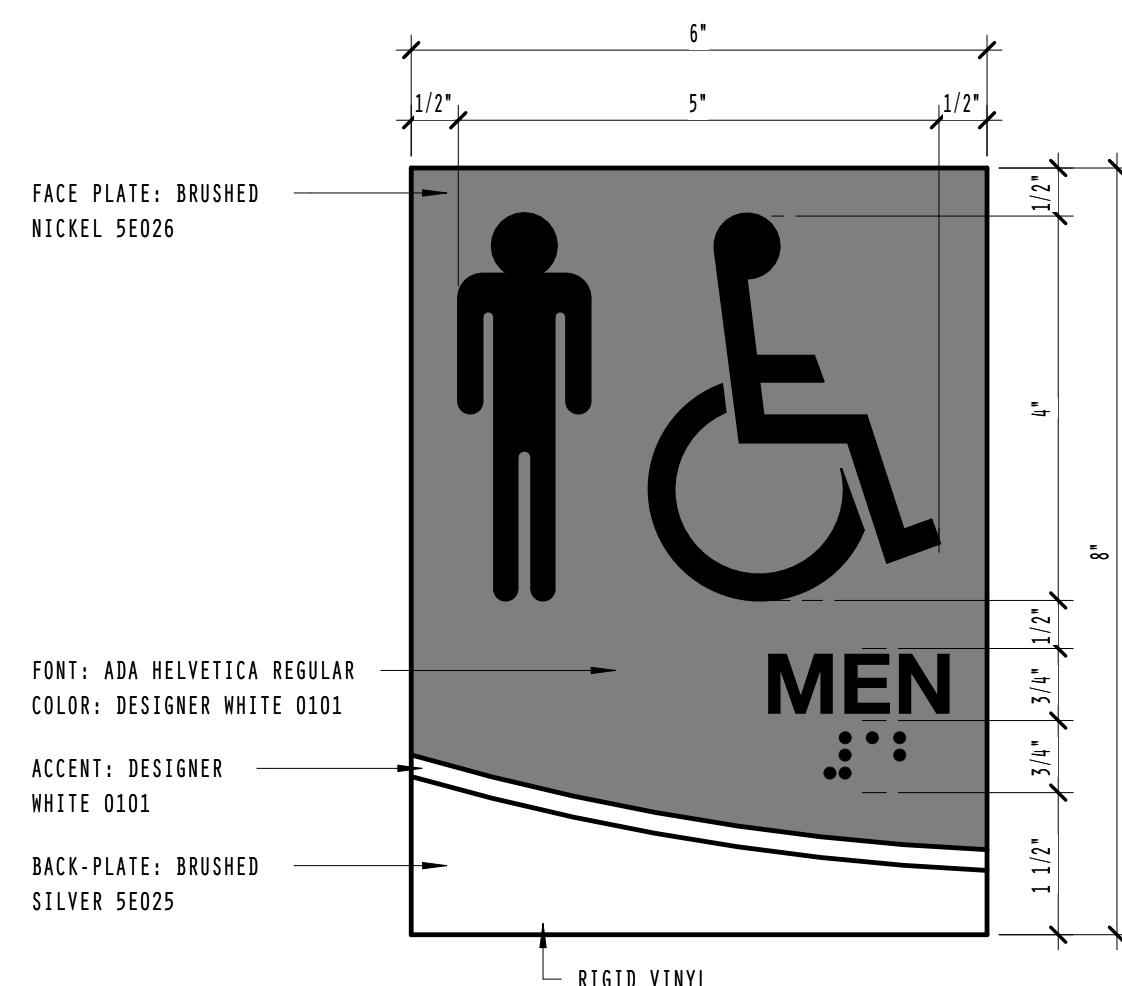
SELECTED VENDOR FOR INTERIOR & EXTERIOR SIGNAGE AS FOLLOWS:

IDEAL SIGN BUILDERS  
600 N CONWAY AVE  
MISSION TX 78572

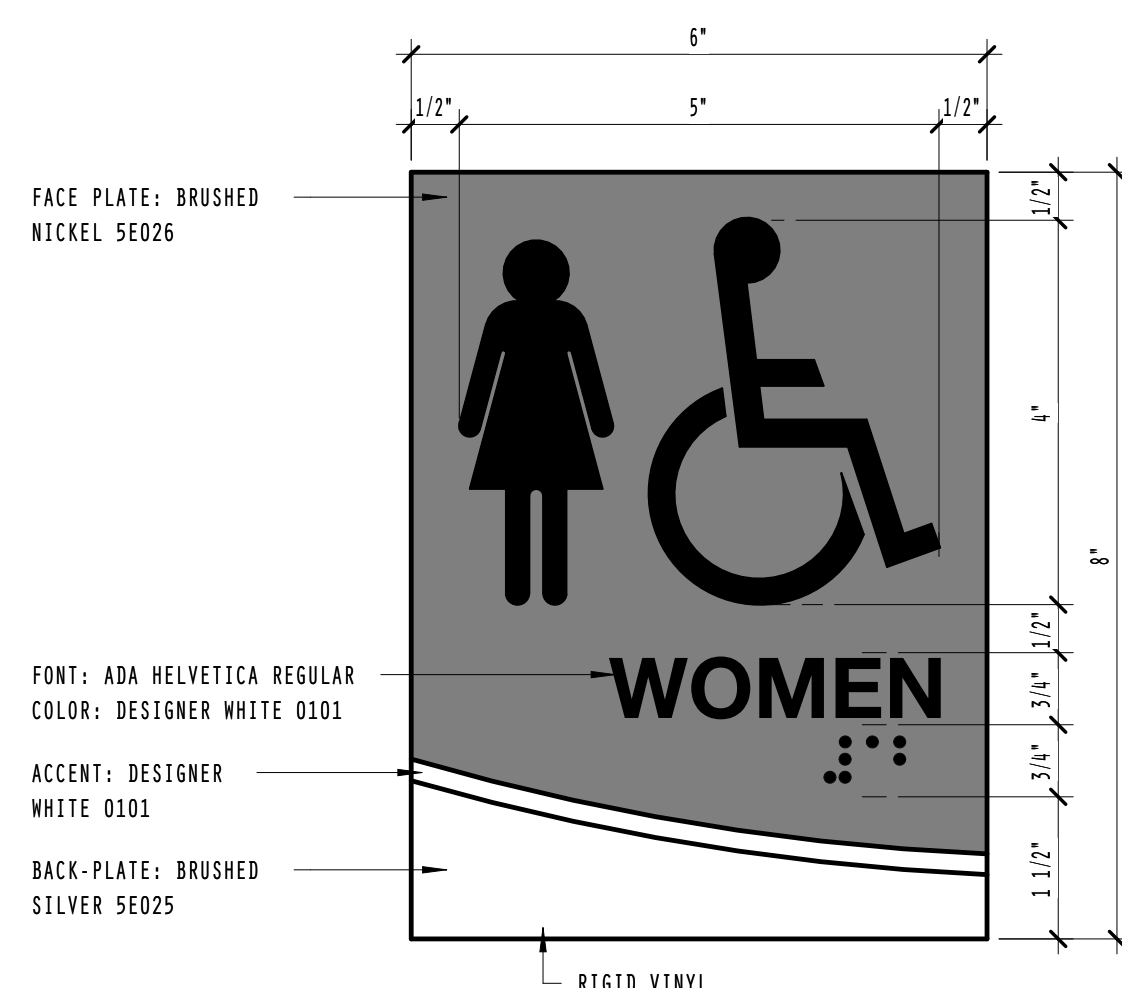
ATTENTION: ROGER AREVALO  
PHONE #: 956-580-0800



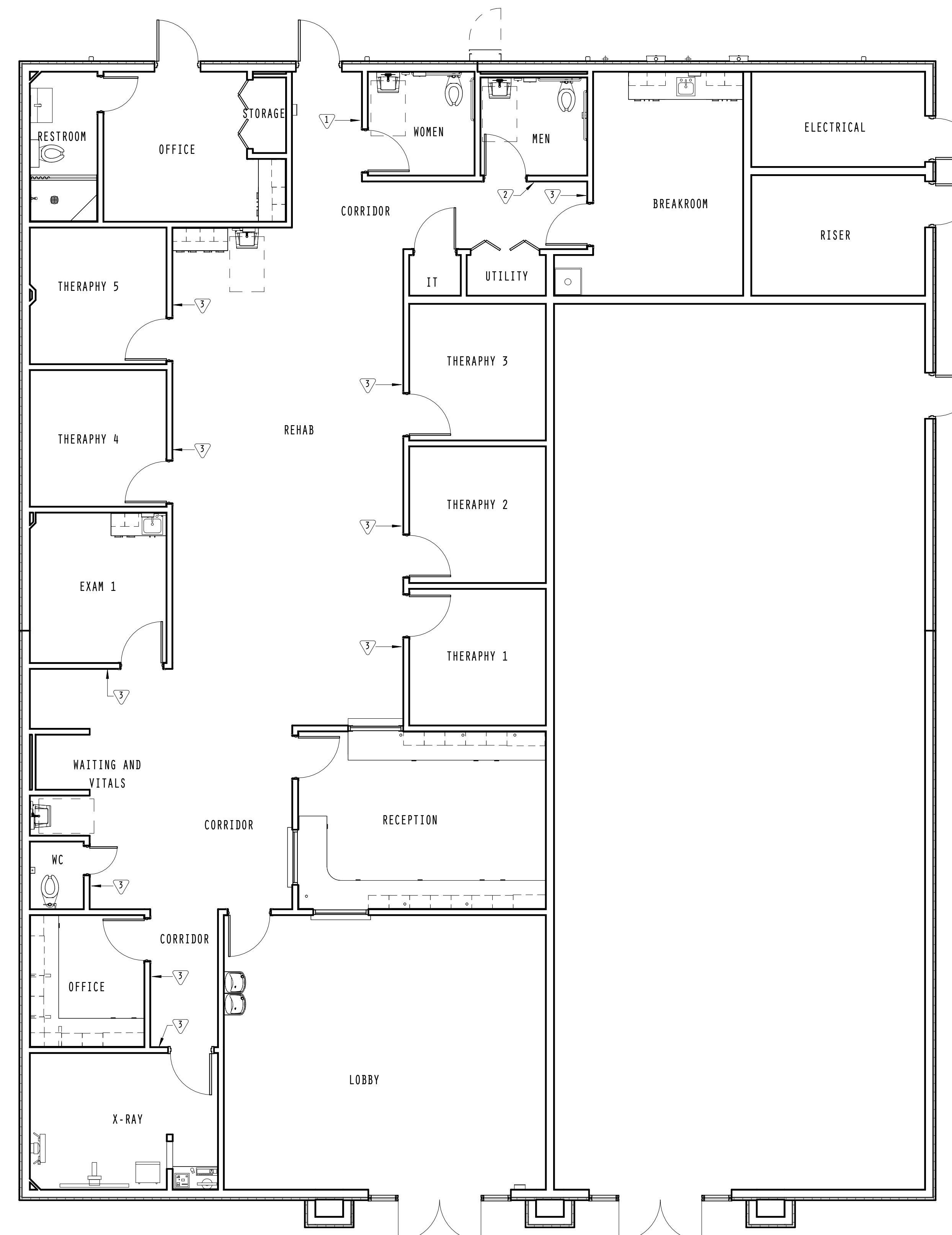
**SIGN TYPE L3**



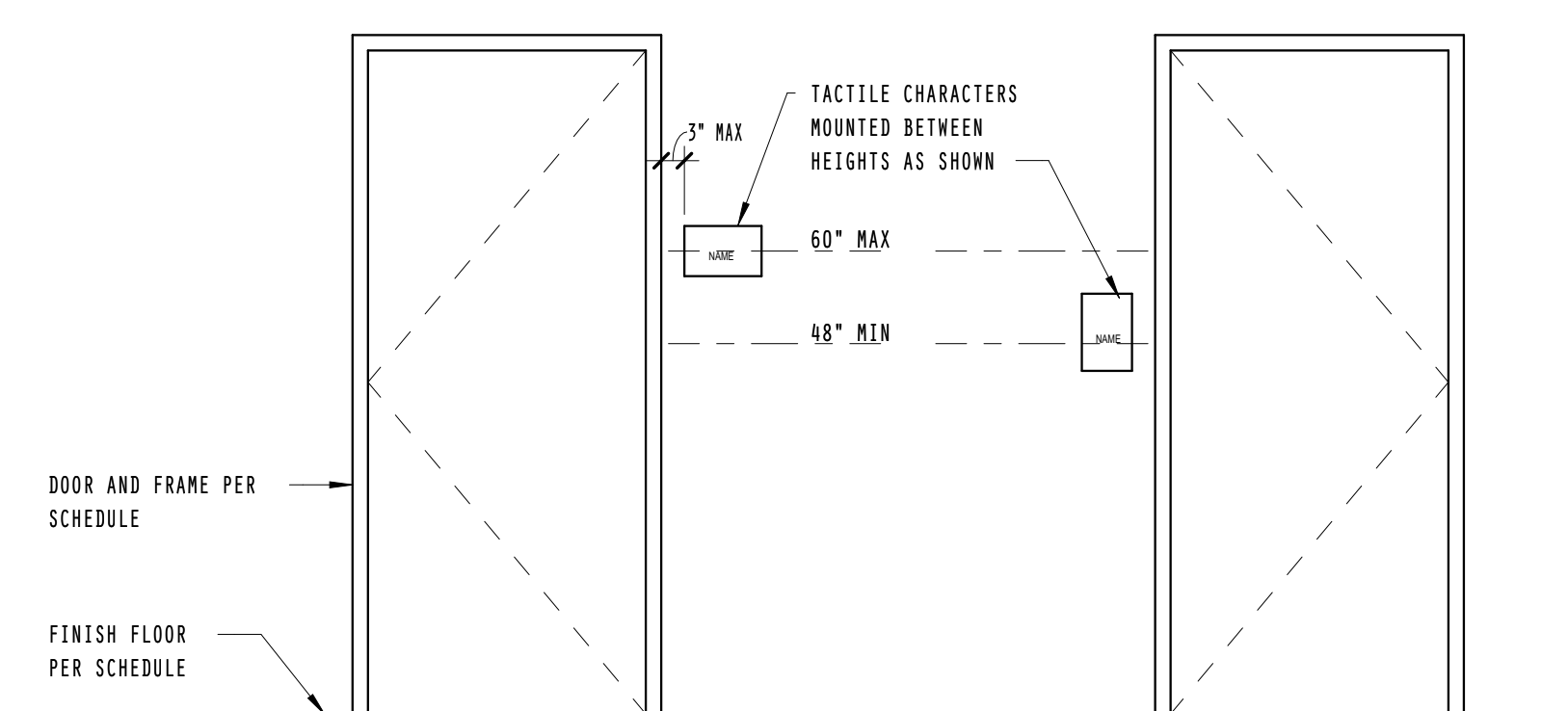
**SIGN TYPE L2**



**SIGN TYPE L1**



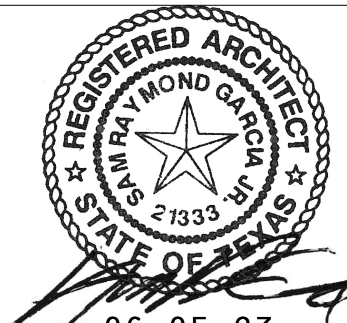
**1 SIGNAGE PLAN**  
3/16" = 1'-0"



**3 DOOR SIGNAGE**  
1/2" = 1'-0"

**2 SIGNAGE TYPE LEGEND**  
6" = 1'-0"

1	PERMIT SET	06/05/23
No.	DESCRIPTION	DATE



06.05.23

**SAN GARCIA ARCHITECT**  
1200 AUBURN AVE., SUITE 280  
MCALLEN, TX 78504  
(956) 631-8327  
INFO@SANGARCIAARCHITECT.COM

**KHIT CHIROPRACTIC WELLNESS**

6151 E. POST ROAD,  
KYLE, TX 78640

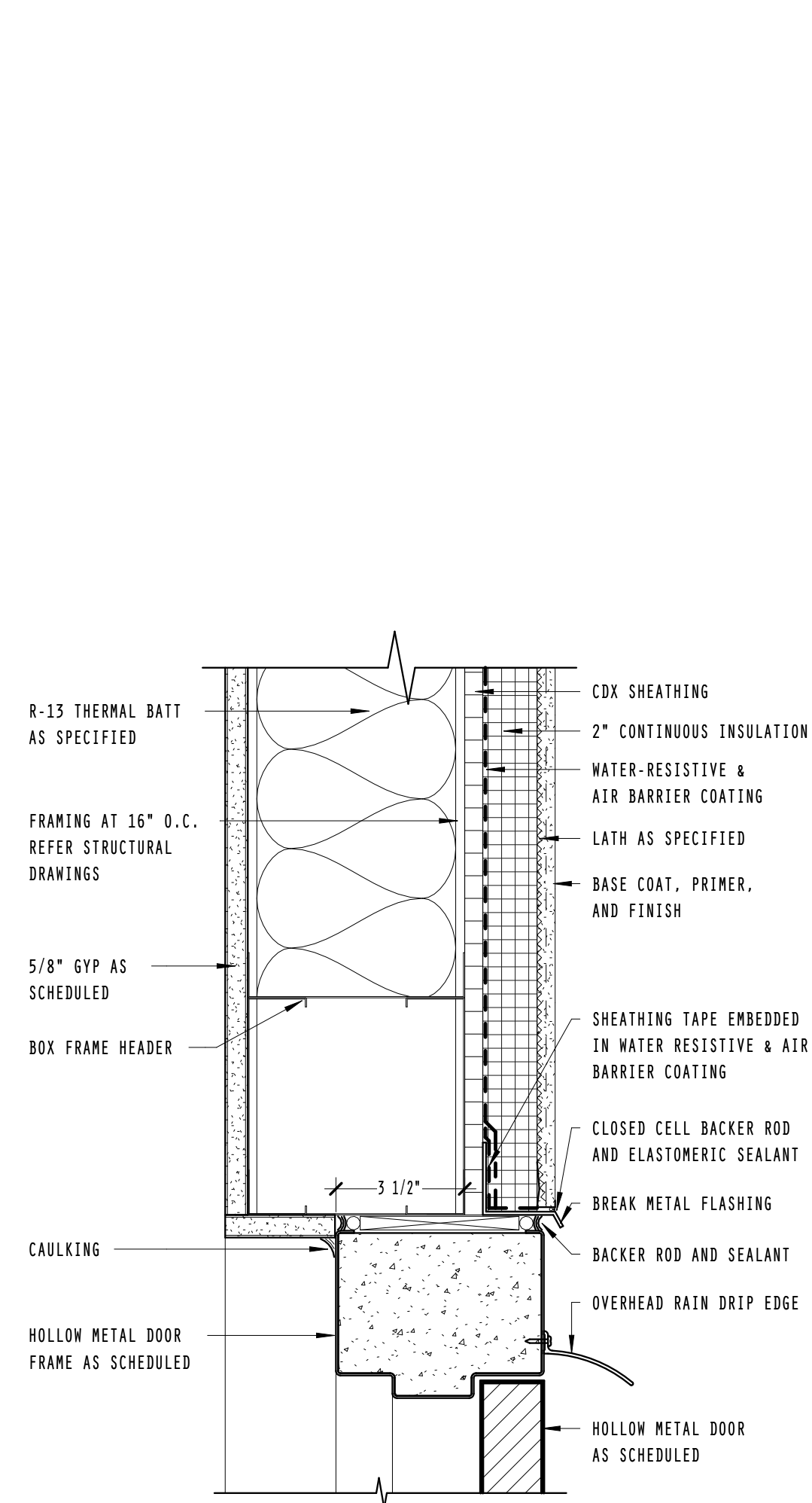
2022-008      06.05.23

**SIGNAGE PLAN**

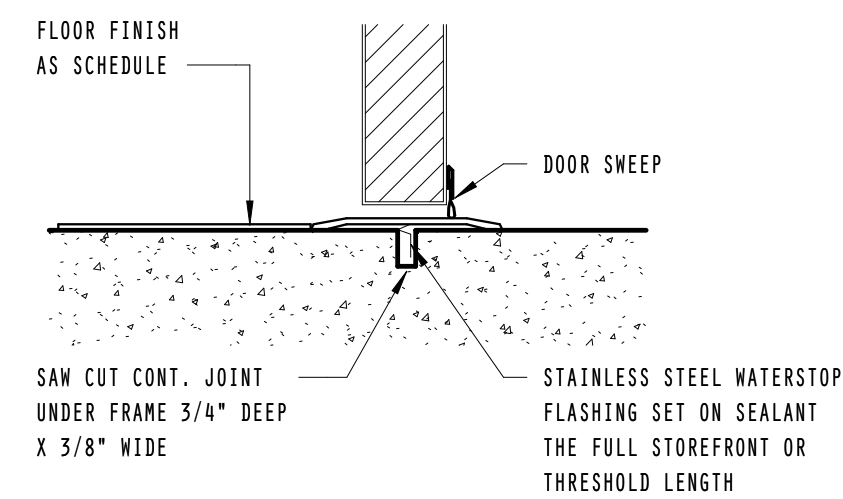
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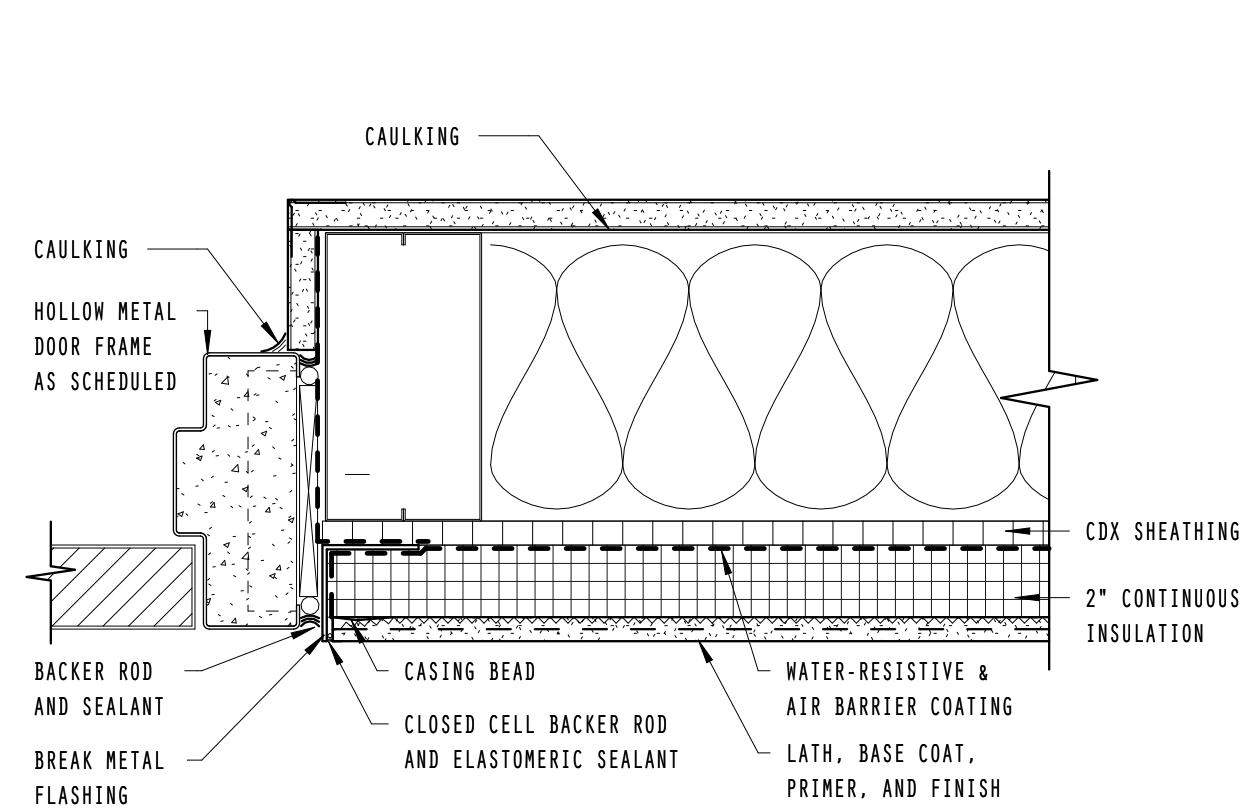




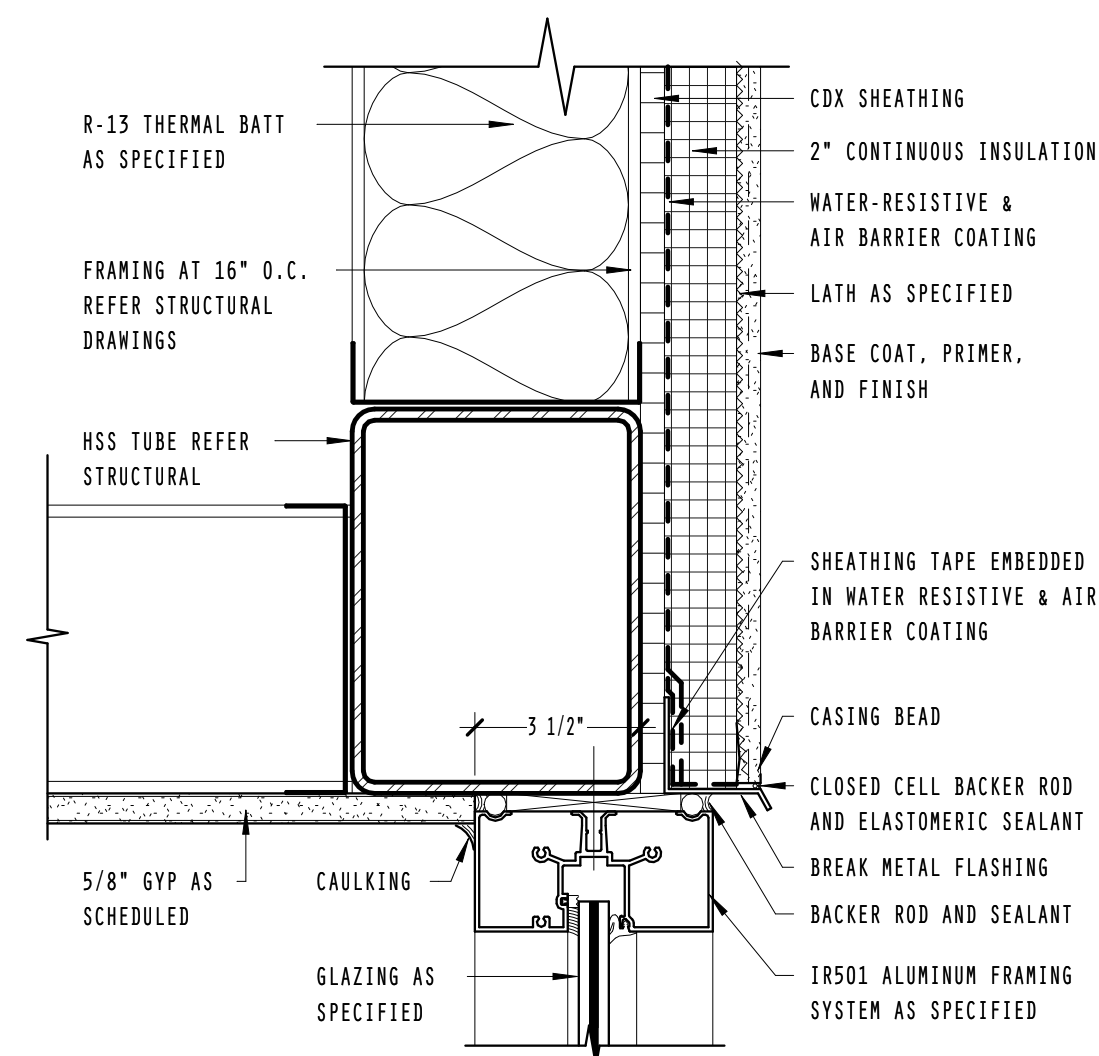
**16** HM DOOR HEAD  
3" = 1'-0"



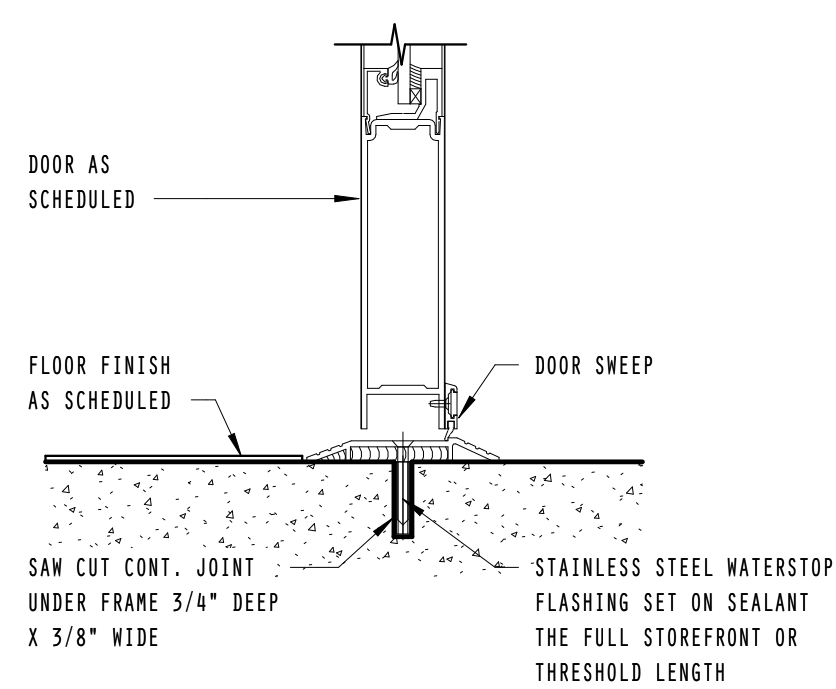
**15** DOOR SILL DETAIL  
3" = 1'-0"



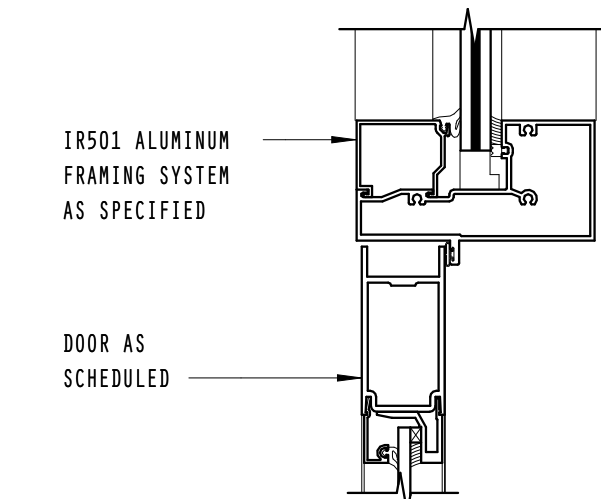
**14** HM DOOR JAMB  
3" = 1'-0"



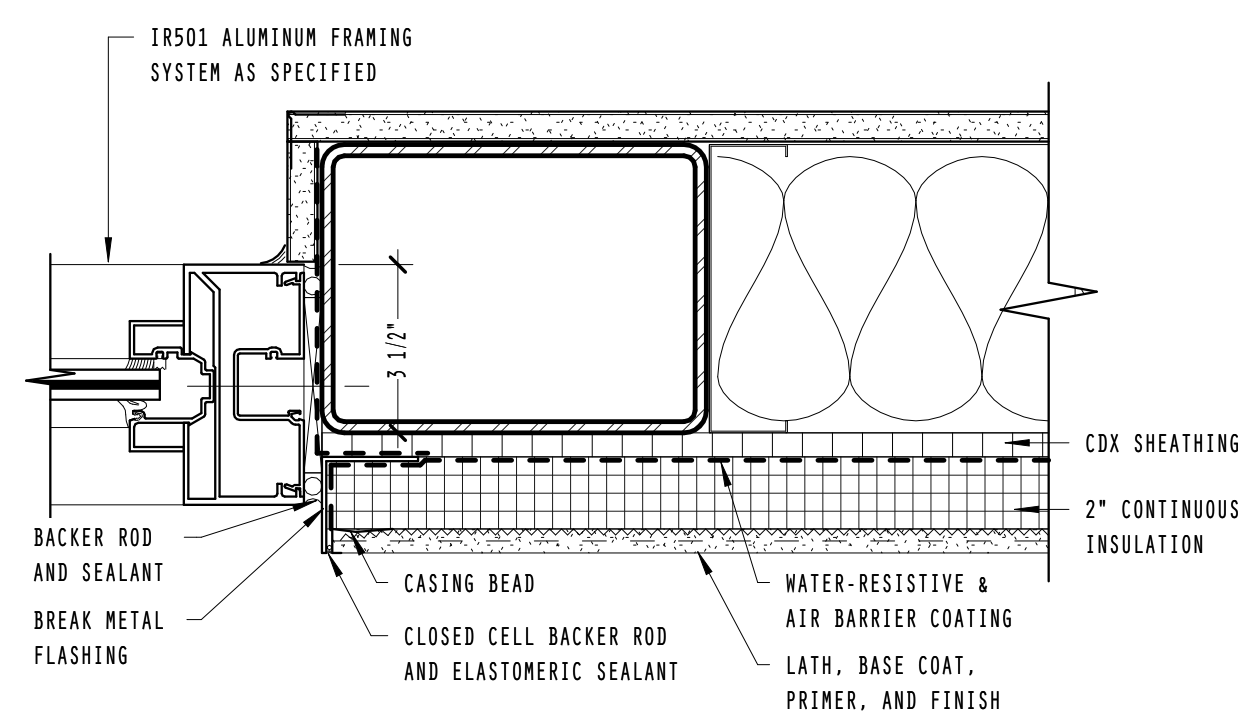
**13** ALM HEAD  
3" = 1'-0"



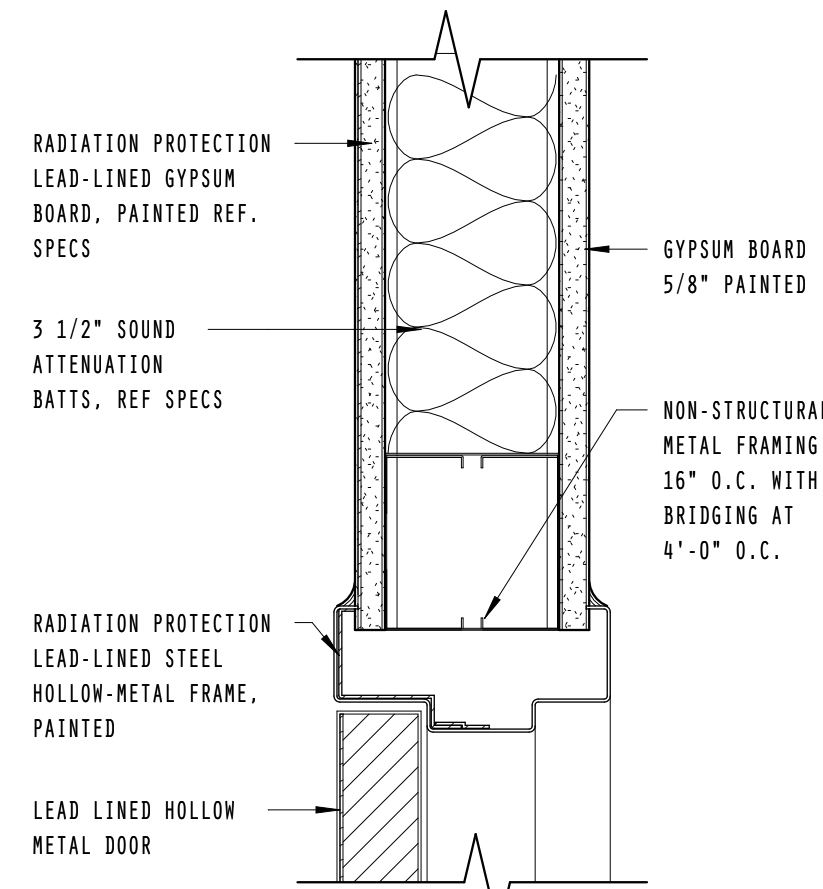
**12** ALM SILL  
3" = 1'-0"



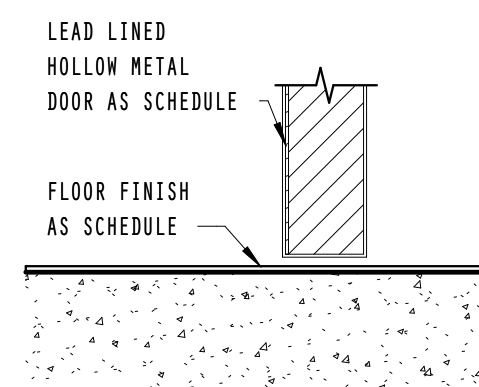
**11** ALM TRANSOM  
3" = 1'-0"



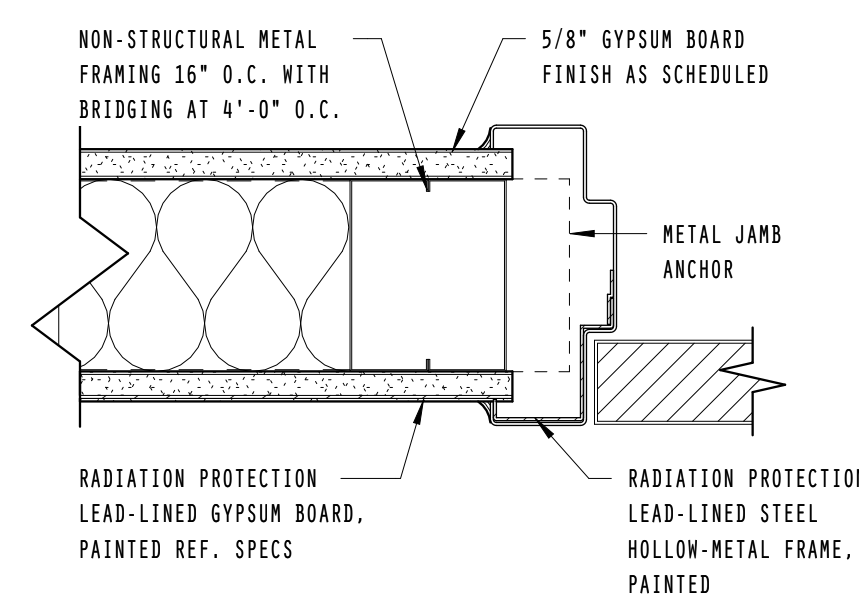
**10** ALUM. FRM. JAMB  
3" = 1'-0"



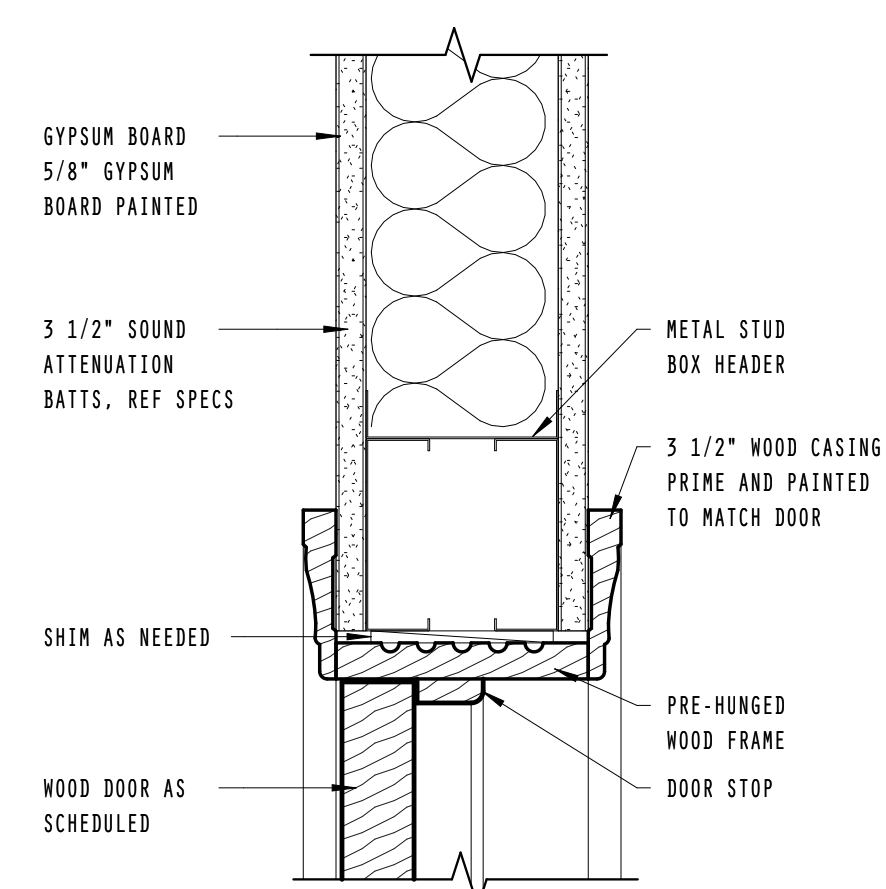
**9** DOOR HEAD DETAILS  
3" = 1'-0"



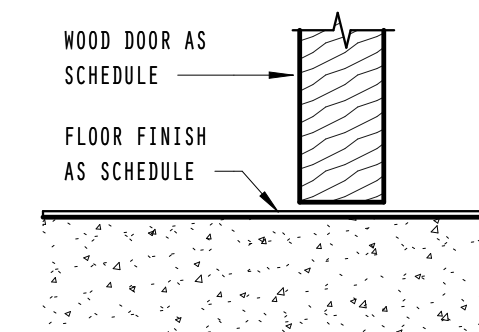
**8** DOOR SILL DETAIL  
3" = 1'-0"



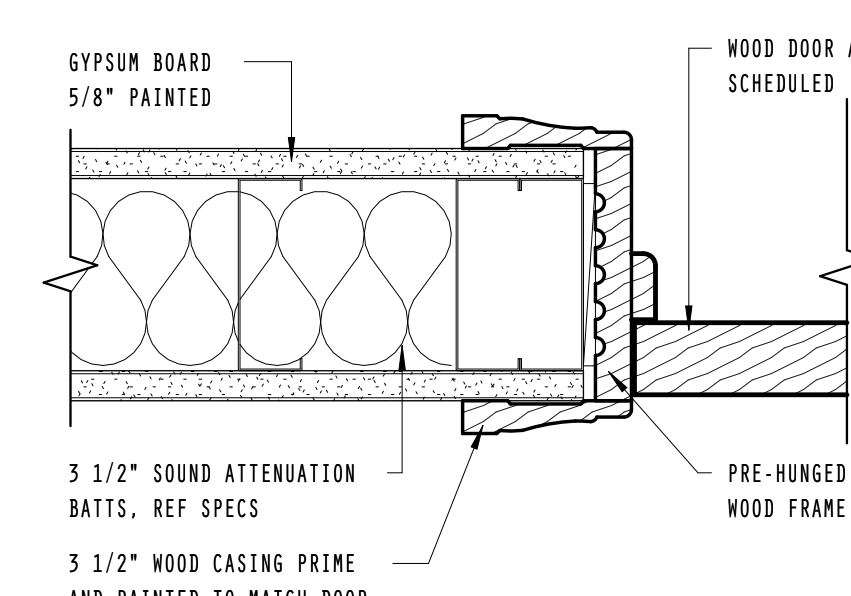
**7** DOOR JAMB DETAIL  
3" = 1'-0"



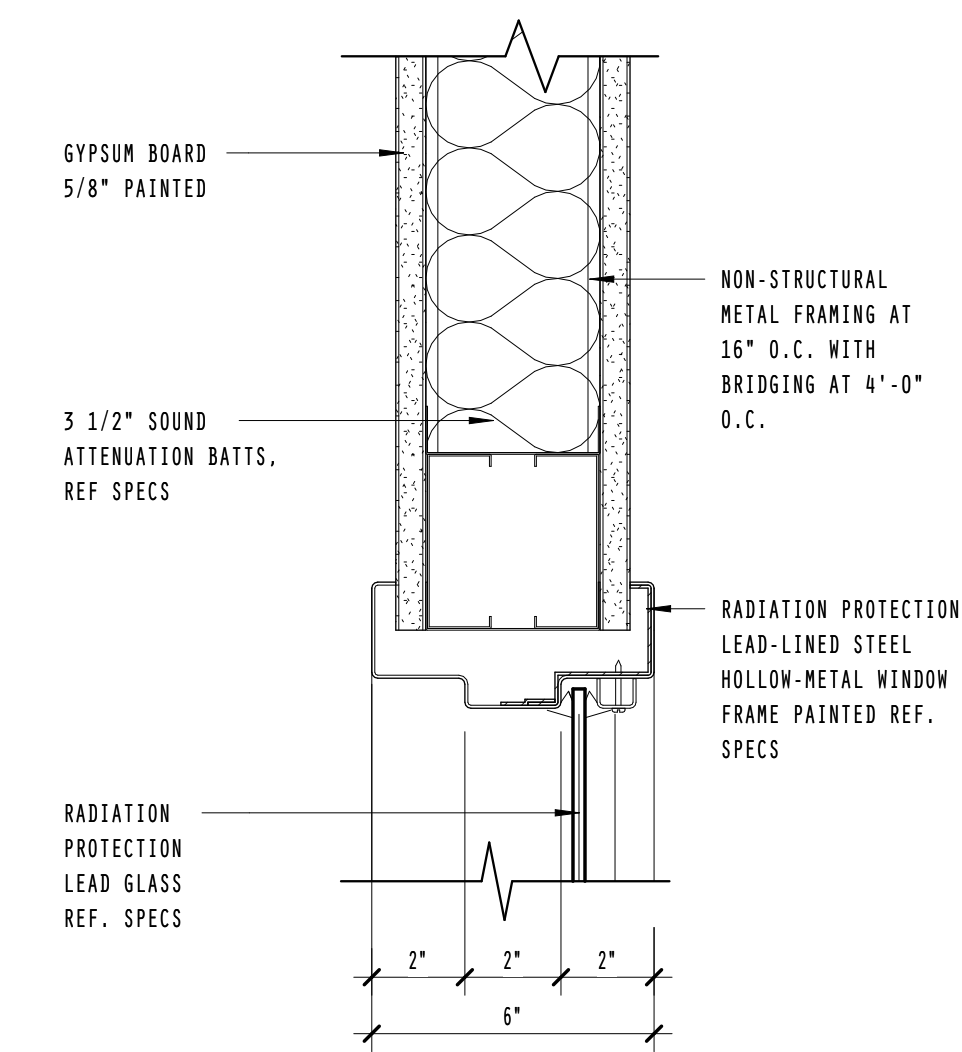
**6** DOOR HEAD DETAIL  
3" = 1'-0"



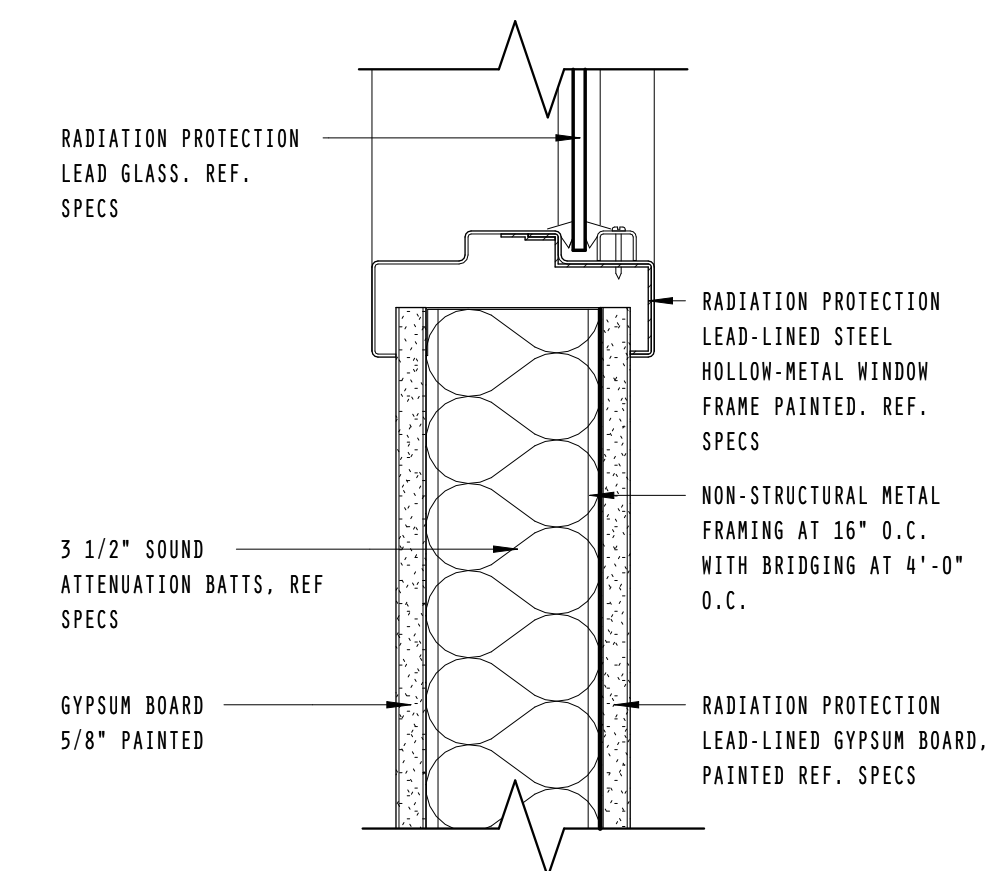
**5** DOOR SILL DETAIL  
3" = 1'-0"



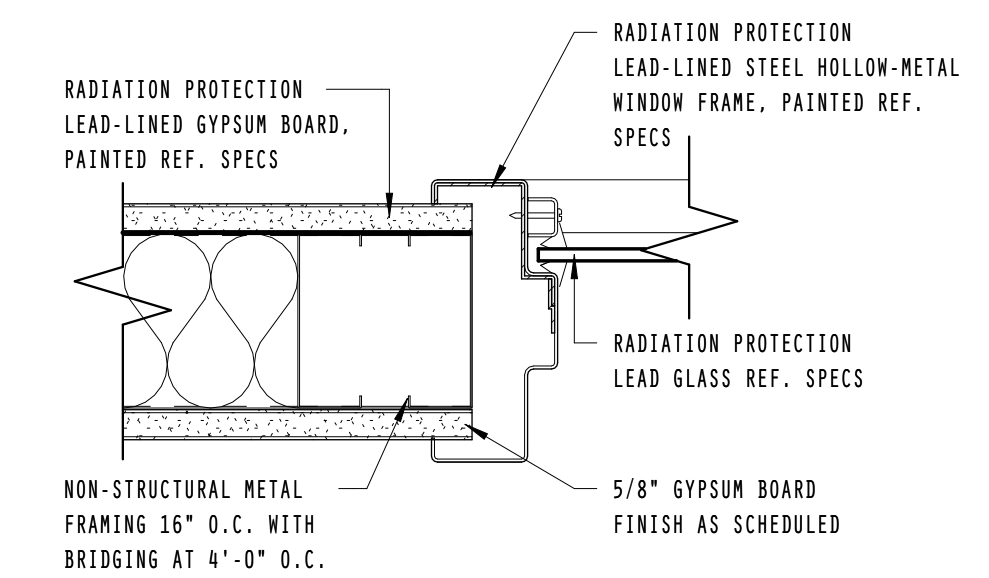
**4** DOOR JAMB DETAIL  
3" = 1'-0"



**3** WINDOW HEAD DETAIL  
3" = 1'-0"



**2** WINDOW SILL DETAIL  
3" = 1'-0"



**1** WINDOW JAMB DETAIL  
3" = 1'-0"

1 PERMIT SET 06/05/23  
No. DESCRIPTION DATE

06.05.23  
SAN GARCIA ARCHITECT  
1200 AUBURN AVE., SUITE 280  
MCALLEN, TX 78504  
(956) 631-8327  
INFO@SANGARCIAARCHITECT.COM

**KHIT**  
CHIROPRACTIC  
WELLNESS

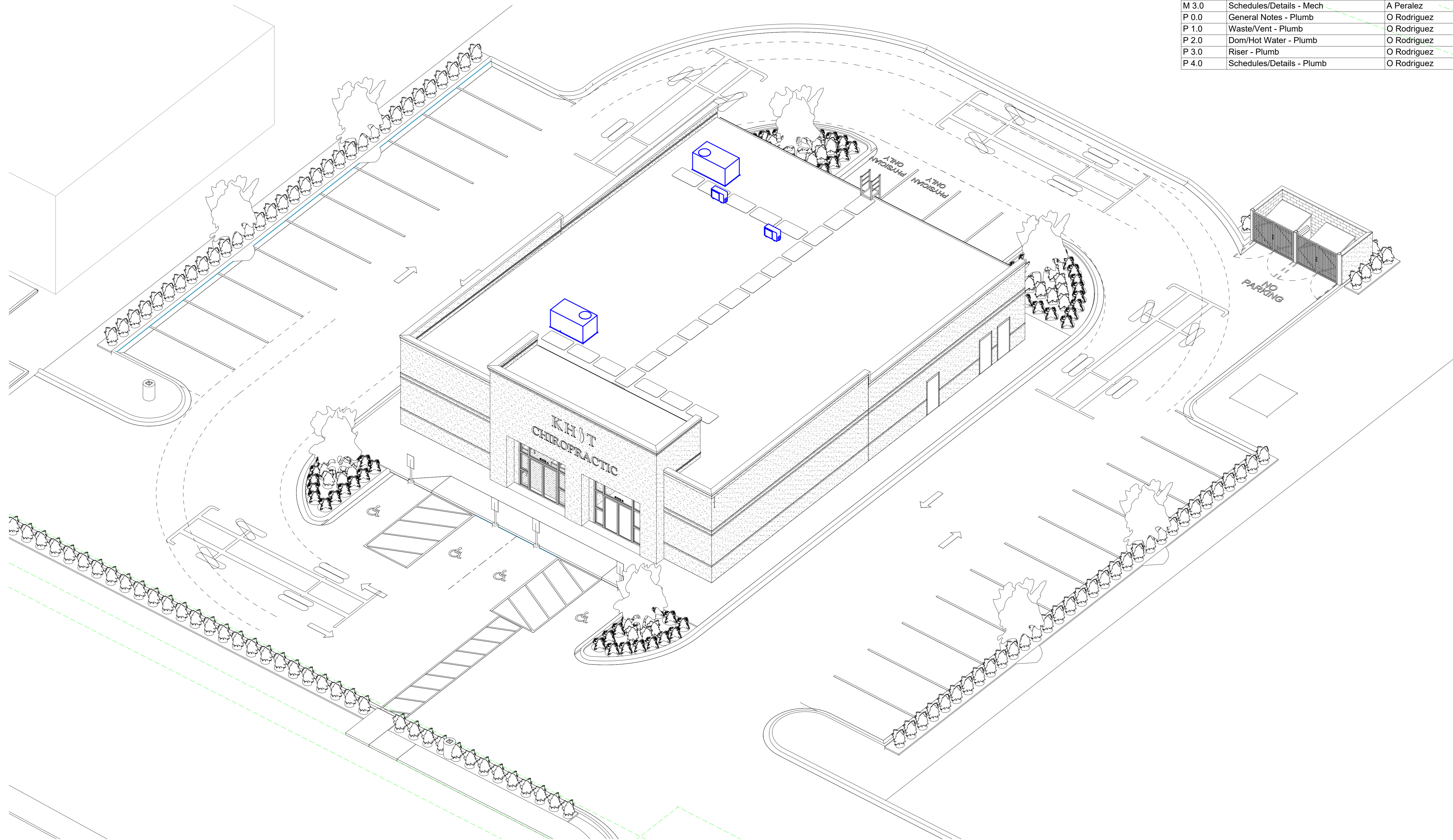
6151 E. POST ROAD,  
KYLE, TX 78640  
2022-008 06.05.23  
HEAD JAMB SILL  
DETAILS

**A7.02**



# KHIT CHIROPRACTIC WELLNESS

SHEET INDEX		
NUMBER	NAME	DESIGNED BY
B 1.0	Cover Sheet	A&G Engineering
E 0.0	General Notes - Elec	E Garcia
E 0.1	Site Plan - Elec	E Garcia
E 1.0	Lighting - Elec	E Garcia
E 2.0	Power - Elec	E Garcia
E 3.0	Schedules/Details - Elec	E Garcia
E 3.1	Schedules/Details - Elec	E Garcia
M 0.0	General Notes - Mech	A Peralez
M 1.0	Supply - Mech	A Peralez
M 2.0	Return - Mech	A Peralez
M 3.0	Schedules/Details - Mech	A Peralez
P 0.0	General Notes - Plumb	O Rodriguez
P 1.0	Waste/Vent - Plumb	O Rodriguez
P 2.0	Dom/Hot Water - Plumb	O Rodriguez
P 3.0	Riser - Plumb	O Rodriguez
P 4.0	Schedules/Details - Plumb	O Rodriguez



0	ISSUE FOR PERMIT	01 JUN 2023
No.	DESCRIPTION	DATE

01 JUN 2023

A&G Engineering  
MEP Design  
1004 W Frontage Rd  
Alamo, TX 78516  
(956) 787 - FIRE  
info@AandGMEP.com

## KHIT CHIROPRACTIC WELLNESS

6151 E. POST RD.  
KYLE TX, 78640

22 02 10      01 JUN 2023

Cover Sheet

# B 1.0

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GENERAL NOTES - ELECTRICAL

- A. CONTRACTOR REQUIREMENTS: ALL WORK UNDER THIS CONTRACT SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODES. WHERE THESE PLANS AND SPECIFICATIONS ARE IN CONFLICT WITH SUCH CODES, THE CODES SHALL GOVERN. BIDS SUBMITTED BY CONTRACTOR SHALL INCLUDE WORK REQUIRED TO COMPLY WITH ALL SUCH CODES. ANY ITEMS REQUIRED AND/OR MISSED IN THESE BASIS OF DESIGN DOCUMENT, SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR AT CONTRACTOR'S EXPENSE TO THE OWNER AND/OR DESIGN TEAM. CONTRACTOR SHALL PAY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES OF INSPECTION.
A.2. CONTRACTOR SHALL STUDY DOCUMENTS, FULLY UNDERSTAND AND ACCEPT THE BASIS OF DESIGN AND SCOPE OF WORK. SUBMISSION OF BID INDICATES CONTRACTOR'S COMPLETE APPROVAL AND ACCEPTANCE OF CONSTRUCTION DOCUMENTS.
A.3. CONTRACTOR SHALL USE ADEQUATE NUMBER OF SKILLED WORKERS, WHO ARE TRAINED, LICENSED AND EXPERIENCED IN COMMERCIAL ELECTRICAL, AND WHO ARE FAMILIAR WITH THE CONSTRUCTION DOCUMENTS AND METHODS OF PERFORMING THE WORK REQUIRED. EACH WORKDAY WILL BE FROM 8:00 AM UNTIL 5:00 PM. ANY DEVIATIONS MUST BE REQUESTED IN WRITING A MIN OF 24 HOURS PRIOR TO DATE OF DEVIATION.
A.4. ALL CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE JOBSITE PRIOR TO THE COMPLETION OF EACH WORKDAY. ALL WORK AREAS SHOULD BE BROOM CLEANED, AND EQUIPMENT WIPED CLEAN PRIOR TO FINISHING PROJECT AND PRIOR TO SUBMISSION OF FINAL PAYMENT APPLICATION.
A.5. CONTRACTOR SHALL PROVIDE A MINIMUM 1 YR. WARRANTY ON ALL LABOR AND MATERIALS INSTALLED. CONTRACTOR SHALL MAKE ALL WARRANTY REPAIRS OR REPLACEMENTS IN A TIMELY MANNER, AT NO ADDITIONAL COST TO THE OWNER.
B. BASIS OF DESIGN:
B.1. ALL CONSTRUCTION DOCUMENTS PROVIDED BY OWNER, INCLUDING ENGINEERING DRAWINGS, NOTES, SCHEDULES, DETAILS, CALCULATIONS AND SPECIFICATIONS, EQUIPMENT MANUFACTURER'S DRAWINGS AND SPECIFICATIONS, FORM THE BASIS OF DESIGN.
B.2. THE BASIS OF DESIGN WILL BE USED FOR ALL INSPECTIONS, TESTING AND ACCEPTANCE OF THE WORK PERFORMED BY THE CONTRACTOR TO VERIFY SUCCESSFUL COMPLETION OF SCOPE OF WORK. THESE DRAWINGS ARE INTENDED TO GENERALLY SHOW THE EXISTING BUILDING ELECTRICAL AND LIGHTING SYSTEMS MODIFICATIONS REQUIRED FOR THIS PROJECT. INFORMATION PROVIDED INCLUDES LOCATION, QUANTITY, TYPE, SIZE, CAPACITY, AND FUNCTION OF SPECIFIC COMPONENTS OF THE NEW AND MODIFIED ELECTRICAL AND LIGHTING SYSTEMS THAT ARE TO BE PROVIDED BY THE CONTRACTOR.
B.4. ALL WIRE AND CONDUIT SHALL BE SIZED BY A LICENSED ELECTRICAL CONTRACTOR AND SHALL ACCOUNT FOR VOLTAGE DROP OF LESS THAN 3%. ALL ELECTRICAL CIRCUITS ON PLAN ARE IDENTIFIED AT HOMERUN BY PANEL AND CIRCUIT NUMBERS.
B.5. INCIDENTAL MODIFICATIONS OR DEMOLITION OF EXISTING ELECTRICAL SYSTEMS AND COMPONENTS AS REQUIRED FOR INSTALLATION OF NEW WORK IS INCLUDED AS PART OF THE PROJECT, WHETHER SHOWN ON PLANS OR NOT. CONTRACTOR SHALL FIELD VERIFY ALL REQUIREMENTS PRIOR TO BIDDING PROJECT. AN REQUIRED ITEMS REQUIRED, REGARDLESS IF ON PLANS, SHALL BE INSTALLED AT CONTRACTOR'S EXPENSE. SUCH ITEMS INCLUDE, BUT NOT LIMITED TO, CONTRACTOR EXISTING CEILING TILE AND GRID REMOVAL, MODIFICATION, AND REINSTALLATION AS REQUIRED FOR WORK SHOWN IS TO BE PROVIDED BY OTHERS AND IS NOT CONSIDERED PART OF THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK. COORDINATE WITH OWNER TO PROVIDE THE REQUIRED WORK ACCESS ABOVE ALL LAY-IN CEILINGS.
B.7. RELOCATION OF EXISTING BUILDING SYSTEMS AND EQUIPMENT, SUCH AS DUCT WORK, FIRE SPRINKLER PIPING AND HEADS, SMOKE DETECTORS, PLUMBING, ETC., AS REQUIRED FOR INSTALLATION OF NEW WORK IS TO BE PROVIDED BY OTHERS AND IS NOT CONSIDERED PART OF THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK. COORDINATE WITH OWNER TO PROVIDE THE REQUIRED INTERFERENCE REMOVAL OF OTHER TRADES.
B.8. THE EXISTING BUILDING ELECTRICAL SYSTEMS ARE INTENDED TO BE REUSED AS SHOWN ON PLANS OR AS INSTALLED IF NOT SHOWN. ALL EXISTING ELECTRICAL AND LIGHTING SYSTEMS ON PLANS ARE FOR REFERENCE ONLY AND MAY BE DIFFERENT IN THE FIELD. CONTRACTOR SHALL FIELD SURVEY, TEST AND INSPECT ALL EXISTING ELECTRICAL AND LIGHTING SYSTEMS PRIOR TO BIDDING TO ENSURE HE UNDERSTANDS AND ACCEPTS ALL EXISTING CONDITIONS.
B.9. THE EXISTING ELECTRICAL LOADS AND PANEL SCHEDULES SHOWN ON PLANS ARE FOR REFERENCE ONLY TO ASSIST WITH NEW LOAD BALANCING BY THE ELECTRICAL CONTRACTOR. CONTRACTOR SHALL FIELD VERIFY ALL ACTUAL LOADS PRIOR TO FINAL LOAD BALANCING AND BREAKER SPACE SELECTION FOR ALL NEW CIRCUITS.
C. SCOPE OF WORK:
C.1. FURNISH ALL REQUIRED LABOR, MATERIALS, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO PERFORM THE WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL MAKE ALL INSTALLATIONS ACCORDING TO MANUFACTURERS INSTRUCTIONS AND SPECIFICATIONS, IN ADDITION TO THOSE SHOWN ON PLANS.
C.2. INSTALL COMPLETE AND OPERABLE ELECTRICAL SYSTEMS AS DESCRIBED BY THE CONSTRUCTION DOCUMENTS. INCIDENTAL ITEMS NOT SPECIFICALLY IDENTIFIED FOR THE PROPER OPERATION OF SPECIFIED SYSTEMS AND EQUIPMENT, ARE CONSIDERED INCLUDED IN THE SCOPE OF WORK AND SHALL BE PROVIDED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
D. CODE COMPLIANCE:
D.1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCALLY ADOPTED BUILDINGS CODES AS LISTED ON THE DRAWINGS, AND ACCORDING TO THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
D.2. THE BASIS OF DESIGN IS INTENDED TO COMPLY WITH ALL LOCAL CODES ENFORCED BY THE AHJ OVER THIS PROJECT. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS MADE BY THE AHJ, WHETHER SPECIFICALLY SHOWN ON PLANS OR NOT.
E. DISCREPANCIES:
E.1. IN THE CASE OF A DISCREPANCY BETWEEN DRAWINGS, SPECIFICATIONS, OR MANUFACTURERS REQUIREMENTS, THE MOST STRINGENT SHALL APPLY AND BE COMPLIED WITH BY THE CONTRACTOR. IN THE CASE OF A DISCREPANCY BETWEEN CODES AND THE CONSTRUCTION DOCUMENTS OR MANUFACTURERS REQUIREMENTS, THE AHJ SHALL DETERMINE WHICH SHOULD BE COMPLIED WITH BY THE CONTRACTOR.
F. JOBSITE CONDITIONS:
F.1. CONTRACTOR SHALL EXAMINE THE JOBSITE PRIOR TO BIDDING AND FULLY UNDERSTAND THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED BY SUBMITTING FOR WORK CONTRACTOR ACCEPTS ALL JOB CONDITIONS AS-IS.
F.2. CONTRACTOR SHALL LOCATE THE EXISTING ELECTRIC UTILITY POINT OF SERVICE PRIOR TO STARTING ANY OTHER WORK. SERVICE CONNECTION SHOWN ON THE PLANS ARE PRELIMINARY ONLY AND SHALL BE VERIFIED BY ELECTRICAL CONTRACTOR.
G. PERMITS AND FEES:
G.1. CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS, LICENSES, AND CERTIFICATIONS REQUIRED BY THE AHJ AND PAY FOR ALL PERMITTING FEES AT ZERO ADDITIONAL CHARGE TO THE OWNER.
G.2. CONTRACTOR SHALL INCLUDE ANY/ALL FEES ON CONTRACTUAL BID REGARDLESS IF KNOWN OR UNKNOWN DURING BIDDING.
H. CONSTRUCTION DRAWINGS:
H.1. DRAWINGS ARE GENERAL SCHEMATIC IN NATURE. ELECTRICAL EQUIPMENT AND LIGHTING SHOWN ON DRAWINGS IS UNDERSTOOD TO BE THE GENERAL ARRANGEMENT ONLY, TO BE FIELD ADJUSTED AS REQUIRED.
H.2. ITEMS WITH SPECIFIC LOCATION AND OR SIZES WILL BE DIMENSIONED ON THE PLANS.
H.3. DRAWINGS DO NOT SHOW EVERY DETAIL OR ITEM REQUIRED FOR EQUIPMENT INSTALLATIONS. REFER TO ALL EQUIPMENT MANUFACTURERS INSTRUCTIONS FOR ADDITIONAL; REQUIRED PARTS AND ACCESSORIES NEEDED FOR COMPLETE INSTALLATIONS.
I. COORDINATION WITH OTHER TRADES:
I.1. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO AVOID INTERFERENCES, PROPERLY SEQUENCE INSTALLATIONS, AND PROVIDE MANUFACTURERS REQUIRED SERVICE CLEARANCES. WHERE REQUIRED, CONTRACTOR SHALL MAKE THE REQUIRED ADJUSTMENTS TO EQUIPMENT LOCATIONS AND INSTALLATION SCHEDULES.
I.2. ALL ELECTRICAL CONNECTIONS TO OWNER FURNISHED HVAC EQUIPMENT SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR, INCLUDING STARTERS, SPEED CONTROLLERS, DISCONNECTS, ENCLOSURES AND LABELS AS NEEDED. OBTAIN FINAL ELECTRICAL SERVICE REQUIREMENTS FROM OWNER'S SUPPLIER.
I.3. IF APPLICABLE, ALL ELECTRICAL CONNECTIONS TO OWNER FURNISHED KITCHEN EQUIPMENT SHOWN ON PLANS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR, INCLUDING DISCONNECTS, ENCLOSURES AND LABELS. OBTAIN FINAL ELECTRICAL SERVICE REQUIREMENTS FROM KITCHEN EQUIPMENT SUPPLIER.
I.4. COORDINATE WITH ROOFING CONTRACTOR TO SEAL ALL CONDUIT PENETRATIONS THROUGH ROOF AS REQUIRED, PER ARCHITECTURAL ROOFING SPECIFICATIONS. PROVIDE ALL WEATHERPROOFING REQUIRED.
I.5. IF REQUIRED, COORDINATE WITH OWNER'S FOR ALARM, SECURITY, COMMUNICATIONS OR OTHER MEDIA COMPANY, TO INSTALL BACK BOXES, CONDUIT AND PULL STRING AS SHOWN ON PLANS FOR CABLE INSTALLATIONS WITH OTHERS. VERIFY ROUGH-IN, ROUTING AND CONDUIT SIZES WITH EQUIPMENT PROVIDERS PRIOR TO INSTALLATIONS.
I.6. CEILING TILE AND GRID REMOVAL, MODIFICATION AND REINSTALLATIONS AS REQUIRED FOR WORK SHOWN IS TO BE PROVIDED BY OTHERS AND IS NOT CONSIDERED PART OF THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK. COORDINATE WITH OWNER TO PROVIDE THE REQUIRED INTERFERENCE REMOVAL OF OTHER TRADES.
J. CONTRACTOR FURNISHED EQUIPMENT & MATERIALS:
J.1. SHALL BE NEW, MANUFACTURED AND CERTIFIED TO COMPLY WITH THE BASIS OF DESIGN, FREE OF DEFECT AND COVERED UNDER A MINIMUM OF 1-YEAR FACTORY WARRANTY, UNLESS SPECIFIED DIFFERENTLY ELSEWHERE.
J.2. SHALL BE AS SPECIFIED IN CONSTRUCTION DOCUMENTS, OR AS ACCEPTABLE SUBSTITUTIONS OF EQUAL ITEM. ALL SUBSTITUTIONS MUST BE 'APPROVED' THROUGH THE COMMISSIONING PROCESS TO BE ACCEPTABLE.

- K. DELIVERY, STORAGE AND PROTECTION: CONTRACTOR SHALL FURNISH DELIVERY OF ALL REQUIRED MATERIALS AND EQUIPMENT TO BE INSTALLED. CONTRACTOR SHALL VERIFY ALL EQUIPMENT IS UNDAMAGED AT THE TIME OF DELIVERY FROM THE FACTORY. DAMAGED ITEMS SHALL BE RETURNED TO THE FACTORY FOR REPLENISHMENT AT NO ADDITIONAL COST TO THE OWNER.
K.2. CONTRACTOR SHALL COORDINATE WITH OWNER TO OBTAIN ACCEPTABLE JOBSITE STORAGE LOCATION FOR MATERIALS. CONTRACTOR SHALL COMPLY WITH OWNER REQUIREMENTS FOR PROTECTION, ACCESS AND SECURITY OF MATERIALS STORED ONSITE. CONTRACTOR SHALL TAKE ALL REQUIRED PRECAUTIONS TO PROPERLY PROTECT ALL STORED MATERIALS FROM WEATHER, DAMAGE, THEFT OR ANY OTHER HAZARD PRESENT AT THE STORAGE LOCATION.
L. CORRECTIONS REQUIRED: (ONLY IF CA SERVICES WERE SELECTED)
L.1. IF CONTRACTOR IDENTIFIES ANY ACTUAL SITUATION OR SITE CONDITION THAT WILL PROHIBIT OR NEGATIVELY IMPACT THE INSTALLATION OR PERFORMANCE OF THE SYSTEMS AS DESIGNED, CONTRACTOR SHALL STOP ALL WORK AND NOTIFY THE ENGINEER IMMEDIATELY.
L.2. IF CONTRACTOR PERFORMS WORK, AND OR INSTALLS ANY EQUIPMENT THAT IS FOUND TO BE DEFECTIVE, OR OUT OF COMPLIANCE WITH BASIS OF DESIGN OR CODE, CONTRACTOR SHALL REPLACE THE DEFECTIVE WORK AT NO ADDITIONAL COST TO THE OWNER. ALL NEW WORK SHALL COMPLY WITH THE CONTRACT DOCUMENTS.
L.3. IF CONTRACTOR DAMAGES ADJACENT PROPERTY WHILE PERFORMING SCOPE OF WORK, HE SHALL MAKE PROMPT REPAIR AT CONTRACTOR'S EXPENSE, PRIOR TO COMPLETING PROJECT.
M. CONDUITS AND SUPPORTS:
M.1. HOLD ALL CONDUITS TIGHT AGAINST STRUCTURE TO AVOID DAMAGE AND INTERFERENCE FORM OTHER TRADES. RUN ALL CONDUITS IN A NEAT AND WORKMAN LIKE MANNER PARALLEL TO BUILDINGS LINES.
M.2. PROVIDE ALL REQUIRED CONDUIT HANGERS AND SUPPORTS WITH PROPER SPACING PER CODE REQUIREMENTS. GROUP PARALLEL RUNS OF CONDUIT TOGETHER ON COMMON HANGERS.
N. EQUIPMENT CONNECTIONS:
N.1. INSTALL ALL UNIT MOUNTED SWITCHES AND EQUIPMENT IN A MANNER THAT DOES NOT COVER UP MANUFACTURER'S EQUIPMENT LABELS OR BLOCK ACCESS TO REMOVABLE SERVICE PANELS. WHERE REQUIRED FOR EQUIPMENT SERVICE CONNECTIONS, PROVIDE STEEL CHANNEL SUPPORT STANDS FOR MOUNTING OF UNIT DISCONNECT SWITCHES, STARTERS, SPEED CONTROLLERS AND CONDUITS. PROPERLY SECURE SUPPORTS TO FLOORS OR WALLS.
N.3. ENSURE THAT SERVICE CLEARANCES ARE NOT BLOCKED BY ROUTING OF CONDUIT OR SUPPORT STRUCTURES AT ALL EQUIPMENT SERVICE CONNECTIONS. COORDINATE WITH HVAC CONTRACTOR TO DETERMINE REQUIRED CLEARANCES AND SERVICE WORK AREAS.
N.4. VERIFY WITH OWNER EQUIPMENT IDENTIFICATION MARKS, PRIOR TO ORDERING AND INSTALLING LABELS ON UNIT DISCONNECT SWITCHES. UNIT MARK SHOWN ON PLANS IS PRELIMINARY.
O. LIGHTING INSTALLATIONS:
O.1. COORDINATE MOUNTING HEIGHT OF ALL LIGHT FIXTURES WITH ARCH PLANS, PRIOR TO STARTING WORK. HEIGHTS SHOWN ON SCHEDULE ARE APPROXIMATE AND MUST BE FIELD VERIFIED BY CONTRACTOR.
O.2. ALL LIGHTING SWITCHES SHALL BE INSTALLED ON THE STRIKE SIDE OF DOOR. VERIFY ALL SWITCH LOCATIONS WITH ARCHITECTURAL PLANS PRIOR TO STARTING WORK.
O.3. ALL LIGHTING CONTROL CABLES SHALL BE PLENUM RATED AND RUN EXPOSED TIGHT AGAINST BUILDING STRUCTURE IN MANNER TO KEEP IT FROM DAMAGE BY OTHER TRADES. PROVIDE TIE-WRAP SUPPORTS TO HOLD TIGHT AGAINST STRUCTURE.
O.4. COORDINATE LIGHTING DEVICE LOCATIONS WITH MANUFACTURER'S REQUIREMENTS, INCLUDING SENSORS, SWITCHES AND CONTROLLERS. LOCATIONS SHOWN ON PLANS ARE APPROXIMATE.
O.5. INSTALL ALL LIGHTING CONTROLLERS IN ACCESSIBLE LOCATION ABOVE CEILING OR OTHER APPROVED LOCATION. WHEN ABOVE CEILING, PROVIDE PERMANENT MARKER FOR LOCATING CONTROLLER FROM THE GROUND.
O.6. PROGRAM LIGHTING CONTROLLERS WITH OWNER FURNISHED OCCUPANCY SCHEDULES FOR GANG ON/OFF CONTROL OF ALL INTERIOR LIGHTING. SETUP ALL CONTROLLERS AND DEVICES AS REQUIRED TO PERFORM SEQUENCE OF OPERATIONS ON LIGHTING CONTROLLER SCHEDULE.

COMMISSIONING PLAN - ELECTRICAL

- A. COMMISSIONING AGENT: THE OWNER'S PROJECT MANAGER OR OTHER PERSON DESIGNATED SHALL FUNCTION AS THE 'COMMISSIONING AGENT' (CA) FOR THE PROJECT. THE CA SHALL INITIATE, DIRECT AND SUPERVISE ALL PHASES OF COMMISSIONING BELOW. AGENT SHALL BE RESPONSIBLE TO ENSURE THAT COMMISSIONING PLAN IS FULLY IMPLEMENTED AND DOCUMENTED. OWNER HAS NOT CHOSEN A&G ENGINEERING AS THEIR COMMISSIONING AGENT AND QUESTIONS SHALL NOT BE DIRECTED TO THEM.
B. SUBMITTALS:
B.1. PROVIDE CA WITH MANUFACTURER'S SUBMITTAL DATA ON NEW EQUIPMENT TO BE FURNISHED AND OBTAIN OFFICIAL APPROVAL PRIOR TO ORDERING. PRE-CONSTRUCTION SUBMITTALS SHALL INCLUDE MANUFACTURER'S SPECIFICATIONS, SHOP DRAWINGS AND INSTALLATIONS MANUALS. PROVIDE SUBMITTALS FOR THE FOLLOWING MAJOR COMPONENTS AND EQUIPMENT PRIOR TO ORDERING:
B.1.1. ELECTRICAL PANELS, LIGHT FIXTURES, LIGHTING CONTROLS, RECEPTACLES, RECEPTACLE COVER PLATES, ELECTRIC HEATERS, ELECTRIC WATER HEATERS, CEILING FANS, FLOOR DEVICES, ETC
C. FIELD INSPECTIONS:
C.1. WHERE REQUIRED BY CA, CONTRACTOR SHALL COORDINATE FIELD INSPECTIONS OF CRITICAL CONSTRUCTION DETAIL BEFORE APPROVAL PRIOR TO PROCEEDING WITH ADDITIONAL WORK. AT A MINIMUM, FIELD INSPECTIONS SHALL INCLUDE:
C.1.1. LIGHTING SYSTEMS STARTUP AND TESTING.
C.1.2. FINAL LOCATIONS OF RECEPTACLE AND DATA BOXES.
D. STARTUP AND TESTING:
D.1. TEST ALL INDOOR AND OUTDOOR LIGHTING CONTROLS AFTER INSTALLATION. PROVIDE NAME AND SIGNATURE OF PERSON(S) COMPLETING THE TESTING, DATE PERFORMED, INITIAL AND FINAL SETTINGS OF CONTROLS ADJUSTMENTS AND THE RESULTING OPERATIONAL PERFORMANCE.
D.2. ENSURE LIGHT FIXTURES ARE INSTALLED AND OPERATIONAL.
D.3. AMBIENT OCCUPANCY TESTING OF EMERGENCY LIGHTING SYSTEMS REQUIRED BY NFPA 101, ANNUAL TESTING PROCEDURE.
D.4. VERIFY OPERATION OF ALL WALL MOUNTED OCCUPANCY LIGHT SWITCHES AND ADJUSTMENTS REQUIRED FOR PROPER OPERATION, PER MANUFACTURER'S INSTRUCTIONS.
D.5. VERIFY OPERATION OF ALL CEILING MOUNTED OCCUPANCY SENSORS IN EACH ZONE SHOWN ON PLANS. ADJUST SET-POINTS AS REQUIRED FOR PROPER OPERATION, PER MANUFACTURER'S INSTRUCTIONS.
D.6. VERIFY OPERATION OF OUTSIDE LIGHTING TIME CLOCK AND PHOTOCELL CONTROLS. ADJUST SET-POINTS ON TIME CLOCK TO ENABLE OUTDOOR LIGHTING CIRCUIT INDEPENDENT OF SEASONAL CHANGES. VERIFY PHOTOCELL WILL BRING ON/OFF THE OUTDOOR LIGHTING WHEN TIMER HAS ENABLED CIRCUITS. PERFORM ALL TESTING PER MANUFACTURER'S INSTRUCTIONS.
E. O&M DOCUMENTATION: PROVIDE THE CA AND OWNER W/ A MINIMUM OF 2 SETS OF BINDERS FOR THE PROJECT. EACH BINDER SHOULD INCLUDE THE FOLLOWING ITEMS:
E.0.1. AS-BUILT DRAWING MARKUPS SHOWING MODIFICATIONS WHERE INSTALLATIONS ARE DIFFERENT THAN DESIGN DRAWINGS.
E.0.2. EQUIPMENT MANUFACTURER'S INSTALLATION, OPERATION MAINTENANCE MANUALS.
E.0.3. COMPLETED MANUFACTURER'S EQUIPMENT STARTUP SHEETS.
E.0.4. EQUIPMENT PROGRAMMED SCHEDULES AND SET-POINTS DETERMINED AT STARTUP.
E.0.5. EQUIPMENT WARRANTIES
F. TRAINING: PROVIDE A MINIMUM OF 2 HOURS ON-SITE TRAINING FOR OWNER'S OPERATIONAL STAFF UPON COMPLETION OF ALL STARTUP WORK. TRAINING SHALL COVER OPERATIONS AND MAINTENANCE ON ALL NEW LIGHTING AND ELECTRICAL SYSTEMS INSTALLED BY CONTRACTOR, INCLUDING LIGHTING CONTROLS. TRAINING SHALL UTILIZE MANUFACTURER'S OPERATIONS AND MAINTENANCE MANUALS AS BASIS FOR INSTRUCTION.
G. ELEC. COMMISSIONING REPORT: THE CONTRACTOR SHALL COMPLETE THE TASKS BELOW TO COMMISSION THE LIGHTING CONTROL SYSTEM AND SUBMIT WRITTEN DOCUMENTATION DEALING THE TASKS BELOW. SUBMIT DOCUMENTATION AT OR BEFORE TIME OF COMPLETION.
G1.0 - MAKE SURE ALL LIGHTING FIXTURES HAVE LAMPS INSTALLED AND ARE FUNCTIONAL.
G2.0 - TEST ALL EXIT SIGNS AND EMERGENCY LIGHTING.
G3.0 - MAKE SURE ALL OCCUPANCY SENSORS ARE INSTALLED AND WORKING.
G4.0 - MAKE SURE WALLBOX AND SCENE CONTROLLERS ARE INSTALLED AND WORKING.
G5.0 - TEST 10% OF DEVICES FOR OCCUPANCY SENSOR TYPES: WALLBOX TYPE WSD-PDT.
G6.0 - VERIFY THE FOLLOWING:
-SENSORS HAVE BEEN LOCATED AND AIMED PER MANUFACTURER'S REQUIREMENTS.
-STATUS INDICATORS ON DEVICES ARE OPERATIONAL AND CORRECT.
-MOVEMENT IN ADJACENT AREA AND/OR CYCLING OF HVAC SYSTEMS NOT FALSE TRIGGER SENSORS.

EQUIPMENT & MATERIALS - ELECTRICAL

- A. CONDUIT: EMT, PVC AND RIGID GALVANIZED STEEL ARE ACCEPTABLE AS ALLOWED BY THE NEC. ELBOWS AND BENDS FOR ALL CONDUIT SYSTEMS SHALL USE THE SAME MATERIAL AS THE CONDUIT WITH WHICH THEY ARE INSTALLED.
A.2. PROVIDE FLEXIBLE CONDUIT CONNECTIONS AT ALL EQUIPMENT TERMINATIONS.
A.3. INSTALL A GALVANIZED IRON OR PVC SLEEVE FOR THE CONDUIT PASSING THROUGH CONCRETE OR MASONRY CONSTRUCTION.
A.4. EMT: UTILIZE WHERE INSTALLING ELECTRICAL IN EXPOSED LOCATIONS IN MECHANICAL ROOMS, SERVICE UTILITY AND OTHER WORK AREAS NOT OPEN TO PUBLIC. IN HIGH CEILING OR HIGH BAY AREAS, USE EMT CONDUIT FOR WIRING UP TO MINIMUM 10' ABOVE FLOOR BEFORE SWITCHING TO MC CABLE.
A.5. PVC: UTILIZE FOR INSTALLING ELECTRICAL IN UNDERGROUND EXTERIOR LOCATIONS WHERE ALLOWED AND NOT SUBJECT TO PAD DAMAGE. PROVIDE WITH RIGID STEEL FOR ALL BENDS AND ASSOCIATED FITTINGS. WHERE EXPOSED RISING OUT OF EXCAVATION TRENCH PROVIDE SCHEDULE 80 PVC PIPE AND FITTINGS.
A.6. RIGID STEEL: UTILIZE FOR INSTALLING ELECTRICAL IN ALL HIGH ABUSE AREAS INDOORS AND OUTDOORS.
B. WIRE AND CABLE: COPPER CONDUCTORS FOR ALL WIRING SHOWN ON DRAWINGS. MINIMUM 90°F RATED INSULATION FOR ALL CONDUCTORS USED, SUCH AS THHN, THHW, THW OR EQUAL. ALUMINUM CONDUCTORS OF EQUIVANT AMPACITY CAN BE SUBSTITUTED FOR SIZES #6 AND ABOVE.
B.2. MC CABLE: METAL CLAD CABLE WITH COPPER CONDUCTORS, RATED FOR WET OR DRY LOCATIONS, 90C TEMPERATURE RATING, WITH GREEN INSULATED GROUNDING CONDUCTOR, ALL CONDUCTORS CABLED TOGETHER WITH SEPARATOR TAPE, INTERLOCKED ALUMINUM ARMOR, FLAME RETARDANT BLACK PVC JACKET OVER THE ARMOR.
B.2.1. UTILIZE IN PLACE OF EMT CONDUIT AND WIRE WHERE ALLOWED FOR CONCEALED WIRING INSTALLATIONS, INSIDE WALLS AND OTHER BUILDING FRAMING, AND IN ATTIC AND CEILING PLENUM SPACES. INSTALL PER NEC REQUIREMENTS AND MANUFACTURERS INSTRUCTIONS WITH FACTORY FITTINGS AND CONNECTIONS.
B.2.2. UTILIZE IN PLACE OF RIGID OR PVC CONDUIT AND WIRE FOR UNDERGROUND OUTDOOR INSTALLATIONS WHERE ALLOWED AND POTENTIAL FOR DAMAGE IS MINIMAL.
C. RECEPTACLES AND COVER PLATES:
C.1. INDOORS: DUPLEX RECEPTACLES :120V, DUPLEX, IVORY COLOR, SMOOTH NYLON FACE, DUPLEX, BACK AND SIDE WIRED, 15A 125V, NEMA 5-15R, AS MANUFACTURED BY HUBBELL MODEL #HR151 OR EQUAL. PROVIDE WITH MATCHING COVER PLATE.
C.1.2. GFI RECEPTACLES : 120V DUPLEX, IVORY COLOR, SMOOTH NYLON FACE, TEST BUTTON, LED INDICATOR LIGHT, BACK AND SIDE WIRED, 15A 125V, NEMA 5-15R, AS MANUFACTURED BY HUBBELL MODEL #GF15L OR EQUAL. PROVIDE WITH MATCHING COVER PLATE.
C.1.3. 240V RECEPTACLES: 240V, MULTI-POLE WITH GROUND, COORDINATE FINAL NEMA TYPE AND AMPERAGE RATING WITH EQUIPMENT SUBMITTALS, SINGLE OR DUPLEX, AS MANUFACTURED BY HUBBELL OR EQUAL. PROVIDE WITH MATCHING COVER PLATE.
C.2. OUTDOORS:
C.2.1. GFI RECEPTACLES: 120V, WEATHER RESISTANT, DUPLEX, IVORY COLOR, SMOOTH NYLON FACE, TEST BUTTON, LED INDICATOR LIGHT, BACK AND SIDE WIRED, 15A 125V, NEMA 5-15R, AS MANUFACTURED BY HUBBELL MODEL #GF15LWR OR EQUAL. INSTALL IN WEATHERPROOF BOX WITH MATCHING GASKETED COVER PLATE.
D. WALL SWITCHES AND COVER PLATES:
D.1. MOTOR RATED SWITCH : 1P/20A, SUITABLE FOR USAGE AS MANUAL TOGGLE CONTROLLER FOR FRACTIONAL HP MOTORS, AS MANUFACTURED BY HUBBELL, CIRCUIT-LOOK MODEL #HBL7832D OR EQUAL. PROVIDE SUITABLE NEMA RATED BOX AND COVER PLATE AS REQUIRED.
E. DISCONNECT SWITCHES:
E.1. SQUARE D, HEAVY DUTY SAFETY SWITCH, OR EQUAL. QUICK-MAKE, QUICK-BREAK OPERATING MECHANISM, FUSIBLE OR NON-FUSIBLE, COLOR-CODED "ON"/"OFF" INDICATOR HANDLE. COVER PADLOCK HASP AND HANDLE LOCK "OFF" PROVISION FOR MULTIPLE PADLOCKS, 200.00 RMS SYMMETRICAL AMPERES SCRR, PROVIDE NEMA 1 OR 3R ENCLOSURE AS REQUIRED. PROVIDE CLASS R, L OR J FUSES AND SPRING REINFORCED PLATED COPPER FUSE CLIPS WHERE SPECIFIED.
F. LABELS: PROVIDE EQUIPMENT LABELS FOR ALL DISCONNECT SWITCHES, PANEL-BOARDS AND ENCLOSURES. LABELS SHALL BE PERMANENTLY FASTENED TO EXTERIOR OF ENCLOSURE IN VISIBLE LOCATION, AND SHALL MATCH EQUIPMENT IDENTIFICATION MARKS SHOWN ON PLANS.
F.2. INTERIOR LABELS SHALL BE BLACK PLASTIC WITH WHITE LETTERS, MINIMUM 3/4" HIGH.
F.3. EXTERIOR LABELS SHALL BE METALLIC, SUITABLE FOR EXTERIOR LOCATIONS WITH BLACK LETTERS MINIMUM 3/4" TALL.
G. ELECTRICAL PANELS:
G.1. PANELS SHALL BE AS MANUFACTURED BY SQUARE D, OR EQUAL. PROVIDE SUBMITTALS FROM VENDOR PRIOR TO ORDERING. PANELS AND BREAKERS. VERIFY PANELS MEET THE BUILT CURRENT RMS VALUES AS SHOWN ON THE PLANS.
H. BUSSED GUTTERS:
H.1. SURFACE MOUNT, NEMA 3R STEEL ENCLOSURE, REMOVABLE FRONT COVER (S) WITH FACTORY HANDLES. ALUMINUM BUSSING, UL1773 LISTED, AS MANUFACTURED BY EATON B-LINE #R1060HEE OR APPROVED EQUAL. MUST COMPLY WITH REQUIREMENTS OF LOCAL UTILITY SPECIFICATIONS AS DISTRIBUTION POINT FOR MULTIPLE METER APPLICATIONS. PROVIDE SINGLE LENGTHS OR MULTIPLE SECTIONS AS REQUIRED BUY TOTAL SERVICE LENGTH ON PLANS.
I. INDOOR LIGHTING CONTROLS:
I.1. LIGHTING MASTER INTERFACE: PROVIDES 'GATEWAY' TO ETHERNET NETWORK, PROGRAMMING AND CONTROL OF UP TO 100 DIRECTLY CONNECTED DEVICES. INCLUDES 120V POWER SUPPLY, CAT5 NETWORK CONNECTIONS AND STEEL NEMA 1 ENCLOSURE, AS MANUFACTURED BY TOUCHE LIGHTING CONTROL, MODEL #MSTR-DVOLT-S2 OR EQUAL.
I.2. LIGHTING RELAY MODULE: CONSISTS OF (2) INDEPENDENT LATCHING, MECHANICALLY HELD, SINGLE POLE RELAYS; EACH RATED AT 20A/120V. (3) CAT5 INPUT PORTS FOR DAISY CHAIN OF UP TO (8) AMBIENT OCCUPANCY SENSORS. (2) CAT5 INPUT PORTS FOR SWITCHES OR DRY CONTACT DEVICES. (2) 0-10V DIMMING OUTPUT CHANNELS, AS MANUFACTURED BY TOUCHE LIGHTING CONTROL, MODEL #LRM-2P-120-0/10DIM OR EQUAL.
I.3. AMBIENT/ OCCUPANCY SENSOR: CEILING MOUNTED, INTEGRATED OCCUPANCY DETECTION AND AMBIENT LIGHT CONTROL ON SINGLE SENSOR, AUTO- ADDRESSING AND SUTO-CONFIGURING, CAT5 CONNECTION PORTS AUTOMATIC CALIBRATION, SOFTWARE CONFIGURATION THROUGH LIGHTING MASTER INTERFACE, SURFACE OR FLUSH MOUNTING OPTIONS. AS MANUFACTURED BY TOUCHE LIGHTING CONTROL, MODEL #SMAOS-P, OR EQUAL. SELECT PROPER COVERAGE PATTERN FOR EACH SPECIFIC INSTALLATION SHOWN ON PLANS AS FOLLOWS:
I.3.1. AISLES AND CORRIDORS: #SMAOS-P-A
I.3.2. 360 COVERAGE, BELOW 20' CEILING HEIGHT: #SMAOS-P-360L
I.3.3. 360 COVERAGE, ABOVE 20' CEILING HEIGHT: #SMAOS-P-360H
I.4. LOW-VOLTAGE LIGHT SWITCH: MOMENTARY CONTACT SWITCH THAT PROVIDES DIGITAL INPUT TO CONTROLLER WHEN PRESSED, CUSTOM CONFIGURABLE THROUGH SOFTWARE AT THE LIGHTING MASTER INTERFACE. CAN BE PROGRAMMED TO FUNCTION AS ON/OFF ONLY, BI-LEVEL WITH DIMMING FIXTURES, ON/OFF WITH MANUAL OVERRIDE, AND 3-WAY SWITCH, AS MANUFACTURED BY TOUCHE LIGHTING CONTROL, MODEL #SW-SF, OR EQUAL. PROVIDE WITH MATCHING DECORATIVE COVER PLATE.
J. ROOM CONTROLLERS:
J.1. PROVIDE INTELLIGENT LIGHTING CONTROL ROOM CONTROLLERS TO ACHIEVE ZONING AS INDICATED ON PLANS WHEN PROVIDED. CONTRACTOR MUST PROVIDE 0-10V DIMMING WIRES FROM POWER PACK TO FIXTURE FOR CONTROL.
K. MOTION SENSORS:
K.1. PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR ENTIRE BUILDING, EXCEPT ELECTRIC ROOMS, AND AS WHEN NOTED ELSEWHERE SHOWN ON PLANS. PROVIDE DUAL TECHNOLOGY MOTION SENSORS IN EVERY ROOM AS REQUIRED BY IECC 2021. ASSUME CEILING MOUNT UNLESS WALL MOUNT SHOWN.
L. VACANCY SENSORS:
L.1. PROVIDE COMPLETE DUAL TECHNOLOGY VACANCY SENSOR COVERAGE PER IECC 2021 IN ALL AREAS EXCEPT EMERGENCY EGRESS CORRIDORS AND PATHWAYS. SHOP DRAWING REQUIRED.
M. OCCUPANCY SENSORS:
M.1. PROVIDE COMPLETE DUAL TECHNOLOGY OCCUPANCY SENSOR COVERAGE PER IECC 2021 IN ALL EMERGENCY EGRESS CORRIDORS AND PATHWAYS. SHOP DRAWING REQUIRED.
N. CONTROL STATION:
N.1. ALL ROOMS SHALL HAVE A CONTROL STATION FOR CONTROL OF LIGHTS IN ROOM. IF NO CONTROL STATION IS SHOWN, ASSUME A TWO ZONE CONTROLLER FOR ROOMS LARGER THAN 9' X 9' AND A WALL MOUNT DUAL TECHNOLOGY CONTROLLER FOR ROOMS SMALLER THAN 9' X 9'.
MCA - MINIMUM CIRCUIT AMPACITY

DESIGN WITHOUT CONSTRUCTION ADMINISTRATION:

IT IS UNDERSTOOD AND AGREED THAT THE ARCHITECT/ENGINEER'S SCOPE DOES NOT INCLUDE PROJECT OBSERVATION OR REVIEW OF THE CONTRACTOR'S PERFORMANCE OR ANY OTHER CONSTRUCTION PHASE SERVICES. THE OWNER AGREES TO PROVIDE CONSTRUCTION ADMINISTRATION AND ASSUMES ANY AND ALL POTENTIAL LIABILITY ARISING FROM SUCH ADMINISTRATION. THE OWNER ASSUMES ALL RESPONSIBILITY FOR INTERPRETATION OF THE CONTRACT DOCUMENTS AND FOR CONSTRUCTION OBSERVATION AND THE OWNERS WAIVES ANY CLAIMS AGAINST THE ARCHITECT/ENGINEER THAT MAY BE IN ANY WAY CONNECTED THERETO. THE ARCHITECT/ENGINEER SHALL NOT RESPOND TO ANY AND ALL QUESTIONS DIRECTED TO THE INTERPRETATION OF THE CONTRACT DOCUMENTS OR IN RESPONSE TO ISSUES ENCOUNTERED BY AND AS RELAYED BY THE CONTRACTOR IN THE FIELD. ANY AND ALL QUESTIONS SHALL BE SUBMITTED DURING THE BIDDING PHASE.

SYMBOL LEGEND - ELECTRICAL:

- 2' X 4' TROFFER LIGHT
2' X 4' TROFFER EMERGENCY LIGHT
2' X 2' TROFFER LIGHT
2' X 2' TROFFER EMERGENCY LIGHT
2" PENDANT
4" PENDANT
6" ROUND RECESSED DOWNLIGHT
6" ROUND RECESSED EMERGENCY DOWNLIGHT
4' STRIPLIGHT BASIC LIGHTING
4' STRIPLIGHT BASIC EMERGENCY LIGHTING
EXIT/EMERGENCY LED LIGHTS. SHALL NOT BE CONNECTED TO SWITCH LEG.
1'X4" SURFACE, LOW PROFILE
STRIP LED LIGHT.
LIGHT TRACK KIT.
ARCHITECTURAL WALL PACK
SINGLE HEAD ARM MOUNTED POLE LIGHT
WALL MOUNTED SCONCE UP/DOWN LIGHT
LED HIGH BAY
LED HIGH BAY EMERGENCY
SWITCH 120V/20A WALL MOUNTED. (MOUNTED AT A MAX HEIGHT OF 48" AFF).
3-WAY SWITCH 120V/20A WALL MOUNTED. (MOUNTED AT A MAX HEIGHT OF 48" AFF).
4-WAY SWITCH 120V/20A WALL MOUNTED. (MOUNTED AT A MAX HEIGHT OF 48" AFF).
DIMMER SWITCH 120V/20A WALL MOUNTED. (MOUNTED AT A MAX HEIGHT OF 48" AFF).
DATA/TELEPHONE WALL MOUNTED DEVICE. FASTENED TO STRUCTURE WITHIN 8" OF BOX. (MOUNTED AT 72" AFF).
ELECTRICAL PANEL BOARD (REFER TO SCHEDULE).
ELECTRICAL DISCONNECT (REFER TO SCHEDULE).
DUPLEX RECEPTACLE GENERAL 120V/20A (MOUNTED AT 18" AFF).
TELEVISION DUPLEX RECEPTACLE 120V/20A (MOUNTED AT 72" AFF).
QUAD RECEPTACLE 120V/20A (MOUNTED 18" AFF).
GROUND FAULT DUPLEX RECEPTACLE 120V/20A (MOUNTED 18" AFF).
GROUND FAULT QUAD RECEPTACLE 120V/20A (MOUNTED 18" AFF).
GROUND FAULT WEATHER RESISTANT RECEPTACLE 120V/20A (MOUNTED 18" AFF).
4-GANG STEEL RECESSED FLOOR BOX TO INCLUDE 2-DUPLEX AND 2-DATA DEVICES.
DUPLEX RECEPTACLE GENERAL 208V/20A (MOUNTED AT 18" AFF).
JUNCTION (J) BOX. PROVIDE APPROPRIATE BOX SIZE FOR A OPERABLE AND COMPLIANT SYSTEM.
HOMERUN CIRCUIT BREAKER SINGLE POLE.
HOMERUN CIRCUIT BREAKER TWO POLE.
HOMERUN CIRCUIT BREAKER THREE POLE.
ELECTRICAL UTILITY.
TELEPHONE & CABLE UTILITY.

ABBREVIATIONS:

- A - AMPERES; AMPS (CURRENT)
AC - ABOVE COUNTER
AFF - ABOVE FINISHED FLOOR
AFG - ABOVE FINISH GRADE
AUTH - AUTHORITY HAVING JURISDICTION
ARCH - ARCHITECTURAL
BC - BELOW COUNTER
C - CONDUIT
CA - COMMISSIONING AGENT
CB - CIRCUIT BREAKER
CONC - CONCRETE
CU - COPPER
DEG - DEGREE
DET - DETAIL
DIM - DIMMABLE
EXIST - EXISTING
GFCI - GRD FAULT CIRCUIT INTERRUPTING
GND - GROUND
IECC - INT ENERGY CONSERVATION CODE
IG - ISOLATED GROUND
JMB - JUNCTION BOX (J-BOX)
KVA - KILOWATT AMP
KW - KILOWATT
LC - LIGHTING CONTACTOR
MCA - MINIMUM CIRCUIT AMPACITY
MCB - MAIN CIRCUIT BREAKER
MED - MEDIUM
MFR - MANUFACTURER
ML - MAIN LUGS ONLY
MOCP - MAX OVER-CURRENT PROTECTION
NEC - NATIONAL ELECTRIC CODE
NFC - NON-FUSED DISCONNECT SWITCH
NO - NUMBER
OH - OVERHEAD
P - PHASE OR POLE
PC - PHOTOCELL
PM - PROJECT MANAGER
T - TELEPHONE
UG - UNDERGROUND
V - VOLTS
VA - VOLTAMPS
W - WIRE OR WATTS
WP - WEATHERPROOF
TR - TRANSFORMER
XFRM - DEGREE CELSIUS
°F - DEGREE FAHRENHEIT
"K" - DEGREE KELVIN
1Ø - SINGLE PHASE
3Ø - THREE PHASE

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Luís Eduardo Medeiros
114403
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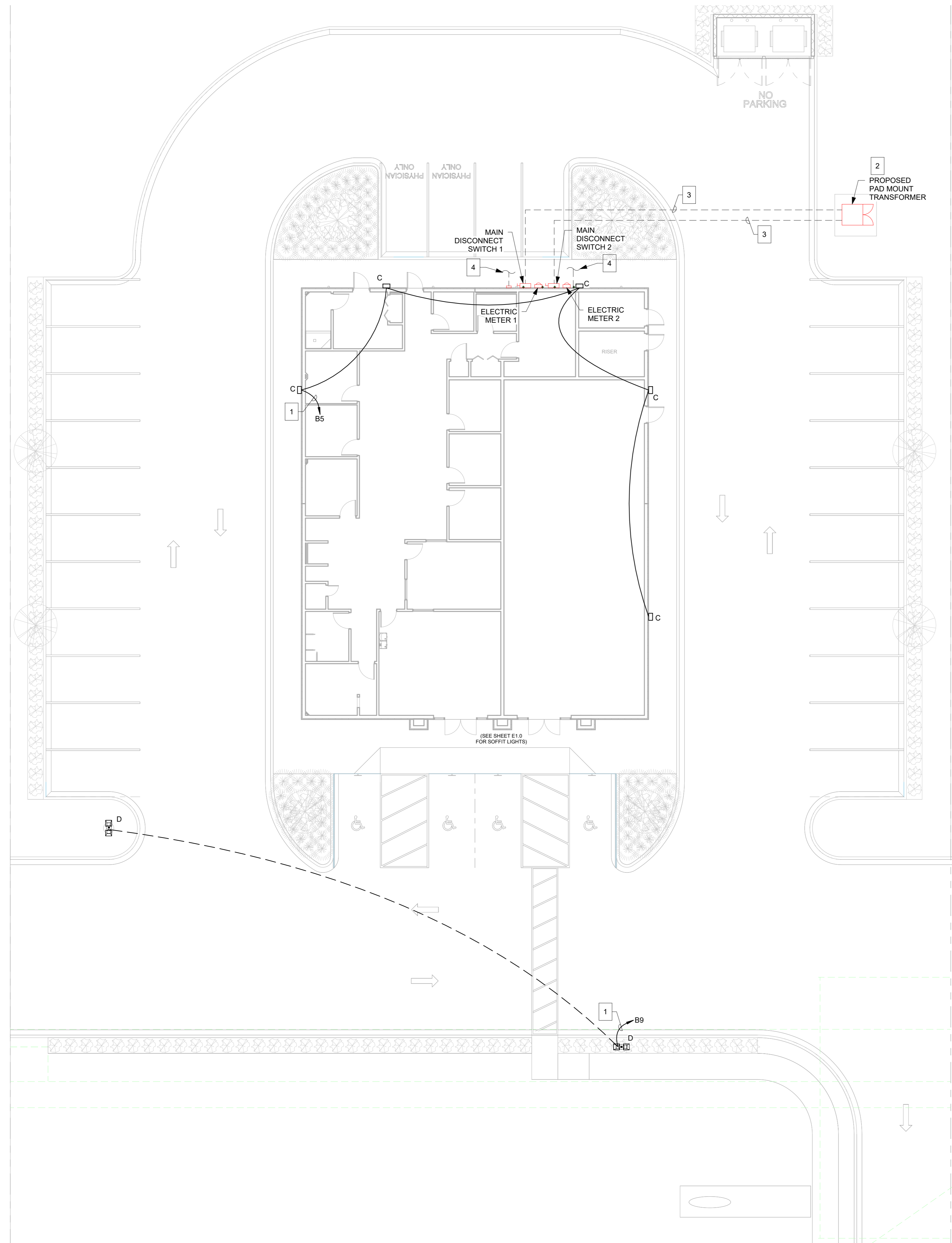
General Notes - Elec

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**GENERAL NOTES:**

- A. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE EXACT LOCATION OF ALL UTILITY SERVICES PRIOR TO BIDDING.
- B. ALL LIGHT FIXTURE SUBSTITUTION SHALL BE APPROVED BY OWNER AND MUST BE EQUAL OR BETTER QUALITY THAN FIXTURES APPROVED.
- C. EQUIPMENT GROUNDING CONDUCTORS SHALL NOT BE TERMINATED OR ROUTED THROUGH METER SOCKET. GROUNDING SHALL BE ESTABLISHED PER 2017 NEC 250.24(A)(1)
- D. CONTRACTOR SHALL PROVIDE AND INSTALL HAPCO "RTA25D7B4-BM" ALUMINUM POLE FOR ALL POLE LIGHTS SHOW ON PLANS. NO SUBSTITUTIONS SHALL BE ALLOWED.

**KEYED NOTES:**

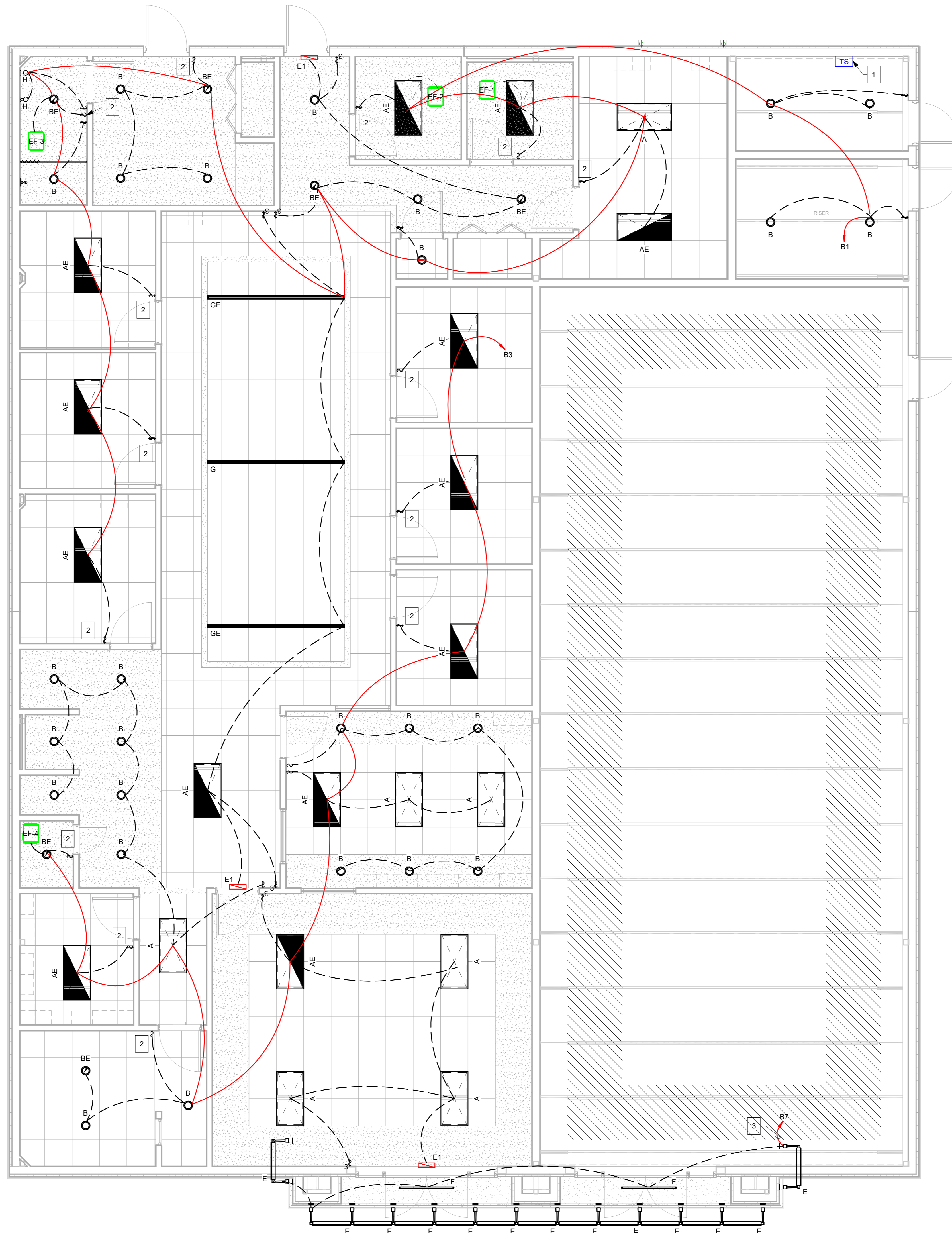
- 1. CONTROL LIGHTING CIRCUIT VIA A 7-DAY, 24-HOUR, PROGRAMMABLE, ASTRONOMICAL, DIGITAL TIME CLOCK/PHOTO CELL COMBINATION. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY DISTANCES TO ELECTRICAL PANEL BOARD FOR WIRE AND CONDUIT.
- 2. PROPOSED UTILITY COMPANY PAD MOUNTED TRANSFORMER. COORDINATE EXACT LOCATION AND PRIMARY RACEWAY ROUTING WITH POWER COMPANY ENGINEERING DEPARTMENT.
- 3. SECONDARY FEEDERS ROUTED TO ELECTRICAL SERVICE. REFER TO ELECTRICAL RISER DIAGRAM FOR FEEDER SIZES/QUANTITIES.
- 4. PROVIDE AND INSTALL ONE (1) UNDERGROUND CONDUIT PIPE FOR TELEPHONE / TELEVISION SERVICE. REFER TO CIVIL DRAWINGS FOR EXACT POINT OF CONNECTION.

1 ELECTRICAL SITE PLAN  
3/32" = 1'-0"

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**GENERAL NOTES:**

- THE CONTRACTOR SHALL:
- A. COMPARE LIGHT FIXTURE PLACEMENT ON ARCHITECTURAL AND MEP PLANS. ANY DEVIATIONS FROM THE TWO SHALL BE REPORTED TO OWNER PRIOR TO BIDDING.
  - B. NOT DEVIATE FROM FIXTURE SCHEDULE UNLESS APPROVED BY OWNER.
  - C. ENSURE ALL EMERGENCY LIGHT FIXTURES ARE PURCHASED WITH OPTIONAL FACTORY-INSTALLED BACKUP BATTERY PACK IN COMPLIANCE WITH NFPA 101 LIFE SAFETY CODE SECTION 7.9.2.1. IF FIXTURE DOES NOT COME WITH THAT OPTION, THEN CONTRACTOR SHALL PROVIDE ONE (1) "LVS LED-BP-SLIM-18W" AND BE INSTALLED IN COOL DRY LOCATION.
  - D. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN (RCP) FOR EXACT LOCATION OF LIGHT FIXTURES. FURNISH FIXTURES WITH TRIM COMPATIBLE WITH THE TYPE OF CEILING AS INDICATED ON THE RCP.
  - E. CONNECT EXIT/EMERGENCY LIGHTS AND EMERGENCY BALLASTS IN EMERGENCY LIGHTS IN EACH SPACE TO UNSWITCHED HOT LEG OF LOCAL LIGHTING CIRCUIT.
  - F. COORDINATE PLACEMENT OF FIXTURES WITH ACTUAL INSTALLATION OF MECHANICAL EQUIPMENT AND DUCTWORK.
  - G. WHERE DUAL LEVEL SWITCHING IS INDICATED IN A SPACE WITH 3-LAMP FLUORESCENT FIXTURES, PROVIDE BALLASTS IN ALL FIXTURES AND WIRING TO ALLOW FOR SWITCHING OF MIDDLE LAMPS INDEPENDENTLY OF OUTER LAMPS.
  - H. ENSURE SWITCH LEGS ARE NOT SHOWN WHERE DIGITAL SWITCHES ARE USED TO CONTROL LIGHTS.
  - I. INCLUDE IN HIS BID TO OWNER THE COST OF ALL CONTROL PANELS, DEVICES, NETWORK CABLING AND LOW OR LINE VOLTAGE WIRING FOR A COMPLETE LIGHTING CONTROL SYSTEM AS SPECIFIED. REFER TO MANUFACTURERS WIRING DIAGRAMS AND INSTALLATION MANUALS PRIOR TO BID.
  - J. ENSURE LIGHTING CONTROL SYSTEM IS DESIGNED TO MEET CURRENT VERSION OF INTERNATIONAL ENERGY CONSERVATION CODE. ALL LIGHT SWITCHES SHALL OPERATE AS BOTH MANUAL AND AUTOMATIC LINE VOLTAGE SWITCHES OR AS MOMENTARY DIGITAL SWITCHES IN CONJUNCTION WITH RELAY CONTROL PANELS, UNLESS OTHERWISE NOTED. REFER TO ELECTRICAL GENERAL LEGEND.
  - K. REFER TO LIGHTING CONTROL RELAY SCHEDULE FOR CIRCUITING OF LIGHT SWITCHES AND LIGHT FIXTURES THROUGH RELAYS IN LIGHTING RELAY PANELS.
  - L. ENSURE ALL LIGHTING CONTROL SYSTEM "CONTROL" AND "POWER" WIRING IS INSTALLED IN CONDUIT.
  - M. COORDINATE LOCATION OF LIGHTS WITH DIFFUSERS AND GRILLS.
  - N. USE #10 AWG CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 100 FEET.
  - O. USE #10 AWG CONDUCTORS FOR 20 AMPERE, 227 VOLT BRANCH CIRCUITS LONGER THAN 200 FEET.

**KEYED NOTES:**

- 1. PROVIDE AND INSTALL TIME SWITCH CONTROL. COORDINATE EXACT LOCATION WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
- 2. PROVIDE AND INSTALL OCCUPANCY SENSOR CONTROL WITH MANUAL SWITCH LIKE "DOUGLAS DIVERSA WOSSDU1-P-VW. COORDINATE EXACT LOCATION WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
- 3. CONTROL LIGHTING CIRCUIT VIA A 7-DAY, 24-HOUR, PROGRAMMABLE, ASTRONOMICAL, DIGITAL, TIME CLOCK/PHOTO CELL COMBINATION. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY DISTANCES TO ELECTRICAL PANEL BOARD FOR WIRE AND CONDUIT.

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

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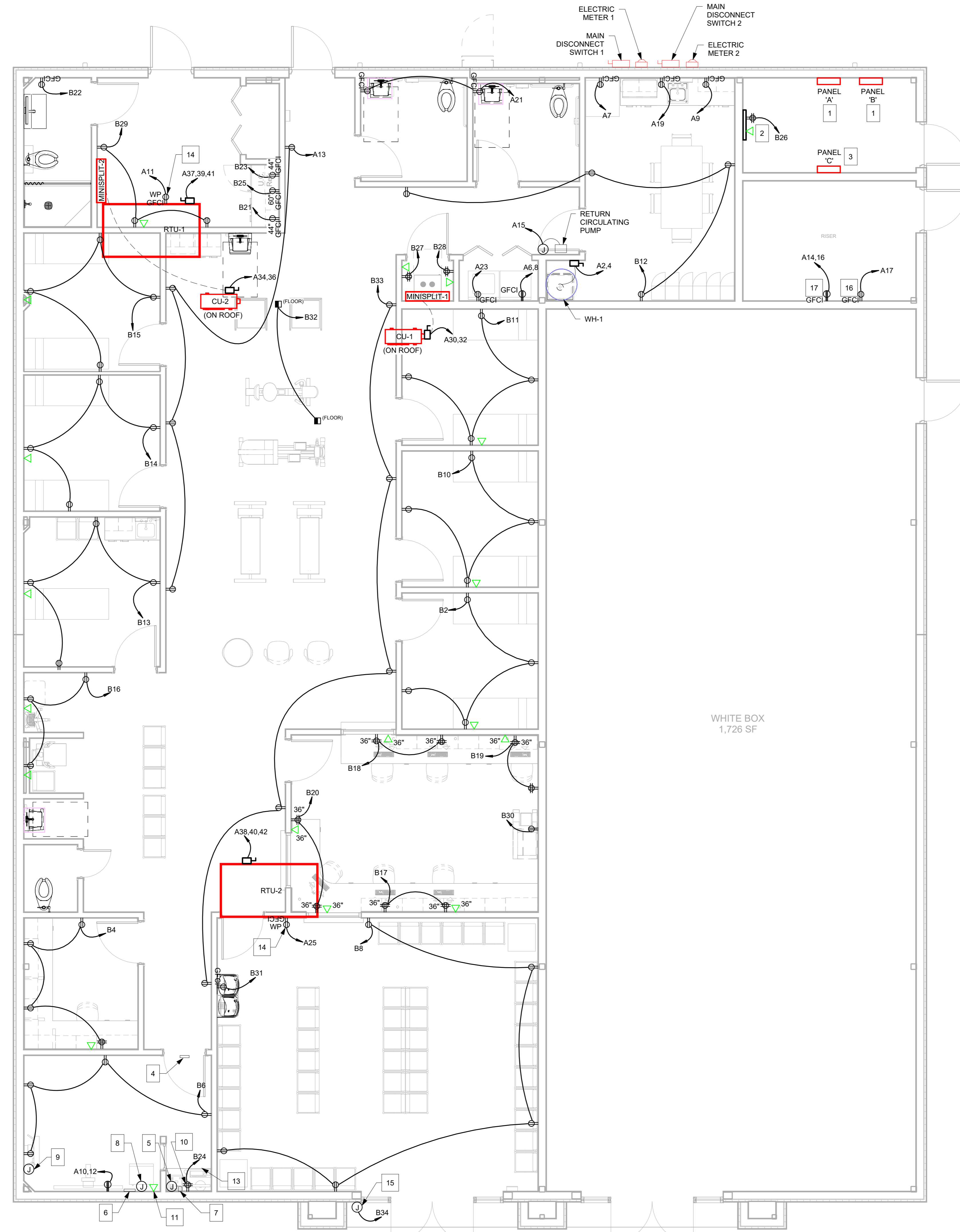
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**Lighting - Elec**

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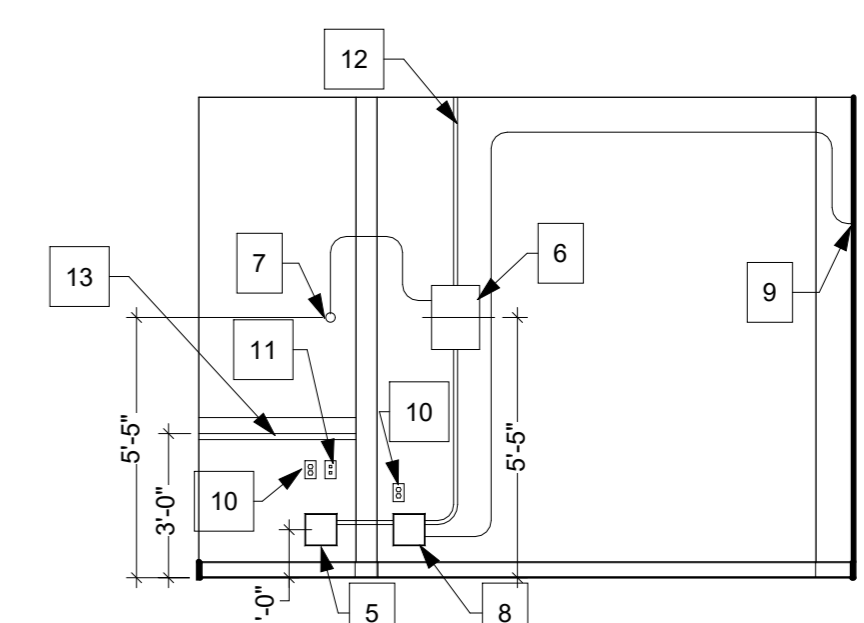
1 POWER PLAN  
1/4" = 1'-0"

**GENERAL NOTES:**

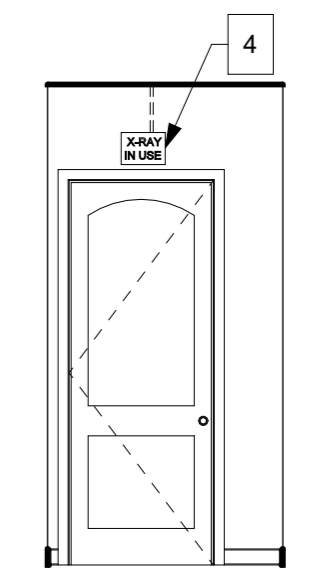
- THE CONTRACTOR SHALL:
- ENSURE ALL 120VAC, 1-PHASE, 20A RECEPTACLES ARE INSTALLED WITH AFCI CIRCUIT BREAKERS.
  - PROVIDE A 120VAC DEDICATED CIRCUIT AND INSTALL SMOKE DETECTORS AS REQUIRED BY NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE. ENSURE TO GET APPROVAL FROM THE AHJ PRIOR TO BIDDING.
  - ENSURE EQUIPMENT GROUNDING CONDUCTORS ARE NOT ROUTED NOR TERMINATE THROUGH THE METER SOCKET. GROUNDING SHALL BE ESTABLISHED PER MOST CURRENT VERSION OF THE NFPA 70 NATIONAL ELECTRICAL CODE ARTICLE 250.24(A)(1).
  - ENSURE ALL REQUIRED TAMPER-RESISTANT RECEPTACLES ARE INSTALLED AS PER MOST CURRENT VERSION OF THE NFPA 70 NATIONAL ELECTRICAL CODE ARTICLE 406.12.
  - PROVIDE AND INSTALL DUCT MOUNTED SMOKE DETECTORS WITHIN THE RETURN DUCT FOR ANY SYSTEM RETURNING 2,000CFM OR MORE AND A SUPPLY DUCT DETECTOR FOR ANY SYSTEM SUPPLYING 15,000 CFM OR MORE.
  - ENSURE ALL DUCT MOUNTED SMOKE DETECTORS ARE PROVIDED WITH A REMOTE ALARM INDICATOR AND ARE LABELED TO INDICATE THE UNIT THEY SERVE. AN EXCEPTION TO THIS REQUIREMENT IS WHERE THE SPECIFIC IN-DUCT SMOKE DETECTOR IS ADDRESSABLE AND ITS LOCATION IS INDICATED AT THE FACP.
  - ENSURE ALL FIRE ALARM DEDICATED BRANCH CIRCUITS ARE MECHANICALLY PROTECTED, HAVE A RED MARKING, ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND BE IDENTIFIED, IN RED, AS "FIRE ALARM CIRCUIT".
  - ENSURE SMOKE DETECTORS ARE INSTALLED FURTHER THAN 3 FEET FROM ANY SUPPLY OR RETURN GRILL.
  - ENSURE AUXILIARY RELAYS, TO INITIATE CONTROL OF FIRE SAFETY FUNCTIONS, ARE LOCATED WITHIN 3 FEET OF THE CONTROLLED CIRCUIT OR DEVICE.
  - ENSURE ALL CONDUIT AND CONDUIT STUBS ARE 1" (UN ON DRAWINGS).
  - ENSURE THAT ALL ELECTRICAL CONDUIT IS SECURELY FASTENED IN PLACE BY AN APPROVED MEANS PER NFPA 70, NATIONAL ELECTRICAL CODE 2020, ARTICLE 348.
  - ENSURE ONE (1) 120VAC DEDICATED BRANCH CIRCUIT IS INSTALLED FOR THE FIRE ALARM CONTROL PANEL. CIRCUIT SHALL BE TERMINATED WITH 3' OF FLEX CABLE.
  - ENSURE THE FIRE ALARM PANEL IS INSTALLED BY A TEXAS LICENSED FIRE ALARM COMPANY.
  - ENSURE THAT ALL ELECTRICAL PANELS HAVE A DEDICATED WORKING SPACE PER NFPA 70, NATIONAL ELECTRICAL CODE 2020, ARTICLE 110.26.
  - ENSURE ALL PATIENT CARE SPACES & FIXED EQUIPMENT, INCLUDING BUT NOT LIMITED TO EXAM ROOMS, THERAPY AREAS, MRI MACHINES, ETC, HAVE REDUNDANT GROUNDING IN ACCORDANCE WITH NFPA 70 NEC, ARTICLE 517.13 (A) AND 517.13 (B) AND FOLLOW THE GROUNDING SIZING IN ACCORDANCE WITH NEC ARTICLE 250.122.
  - USE #10 AWG CONDUCTORS FOR 20 AMP 120V BRANCH CIRCUITS LONGER THAN 100 FEET.
  - FURNISH AND INSTALL TV OUTLET AND TV RECEPTACLES IN SEPERATE BACKBOX WALL PLATE AND REQUIRED BLOCKING.
  - ENSURE ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL HAVE SOUND RETARDING/ABSORBING FIRE STOP MATERIAL. REFER TO ARCHITECTURAL MILLWORK AND ELEVATION PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL WIRING DEVICES. COORDINATE ROUGH-IN LOCATIONS OF ALL DEVICES WITH ARCHITECTURAL ELEVATIONS DETAILS AND PLANS.

**KEYED NOTES:**

- ELECTRICAL PANEL BOARD. REFER TO ELECTRICAL SCHEDULES FOR FURTHER INFORMATION.
- 2'X2'X3/4" PLYWOOD TELEPHONE BOARD MOUNTED ON WALL. PROVIDE ONE (1) #6 GROUND CONDUCTOR AT BOARD FROM PANEL GROUND BUSS. NOTE: ROUTE TWO (2) CONDUITS WITH PULL STRING, STUB 1'-0" ABOVE FINISHED FLOOR FOR TELEPHONE / TELEVISION SERVICE.
- PROVIDE AND INSTALL AN ELECTRICAL PANEL BOARD, 225A MAIN LUGS, 200A MAIN BREAKER, NEMA-1, 42 SPACES.
- X-RAY "ON" WARNING LIGHT.
- J-BOX (A) 8"X8" MOUNTED 1' A.F.F. (2" CONDUIT TO J-BOX (B)).
- CIRCUIT BREAKER, 2" CONDUIT TO J-BOX (B).
- PANIC BUTTON, SHUNT TRIP BREAKER.
- J-BOX (B) 8"X8" MOUNTED 1' A.F.F. (3/4" CONDUIT TO J-BOX (E), 2" CONDUIT TO J-BOX (A), 2" CONDUIT TO CIRCUIT BREAKER).
- J-BOX (E) 2"X4" (3/4" CONDUIT TO J-BOX (B)).
- POWER OUTLETS.
- CAT-6 NETWORK.
- TO BUILDING SERVICE PANEL.
- SOLID SURFACE COUNTER, PROVIDE 2" GROMMET AS INDICATED.
- ACCORDING TO 2020 NFPA 70 NATIONAL ELECTRICAL CODE ARTICLE 210.63, PROVIDE AND INSTALL ONE (1) GFCI, WEATHERPROOF RECEPTACLE FOR EVERY HVAC EQUIPMENT INSTALLED.
- PROVIDE AND INSTALL A WEATHERPROOF JUNCTION BOX TO SERVE EXTERIOR SIGN. ROUTE LIGHTING CIRCUIT VIA A 7-DAY, 24-HOUR, PROGRAMMABLE, ASTRONOMICAL, DIGITAL, TIME CLOCK/PHOTO CELL COMBINATION.
- CONTRACTOR SHALL PROVIDE ONE 120V/1 J-BOX WITH 3' OF SPARE FLEX CABLE FOR FUTURE FIRE ALARM PANEL. FIRE ALARM SYSTEM SHALL BE DESIGNED BY A LICENSED FIRE ALARM CONTRACTOR.
- CONTRACTOR SHALL PROVIDE ONE 208V/1 J-BOX FOR FUTURE UNIT HEATER. UNIT HEATER SHALL BE PROVIDED BY MECHANICAL CONTRACTOR.



2 X-RAY AREA DETAIL 1  
NOT TO SCALE



3 X-RAY AREA DETAIL 2  
NOT TO SCALE

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# KHIT CHIROPRACTIC WELLNESS

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**Power - Elec**

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Branch Panel: A											
Location:				Volts: 120/208 Wye				A.I.C. Rating: See notes 1 & 2			
Supply From:				Phases: 3				Mains Type:			
Mounting: Recessed				Wires: 4				Mains Rating: 400 A			
Enclosure: Type 1								MCB Rating: 300 A			
Notes:											
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
A1	PANEL 'B'	100 A	3	8657...	2250...		2	30 A	WH: Water Heater 1	A2	
A3	--	--	--		8172...	2250...	--	--		A4	
A5	--	--	--		6535...	2500...	2	30 A	EQ: Dryer	A6	
A7	REC: Refrigerator	20 A	1	500 VA	2500...		--	--		A8	
A9	REC: Break room counter	20 A	1		1000...	2000...	2	30 A	EQ: X-Ray	A10	
A11	REC: hvac maintenance	20 A	1			180 VA	2000...	--	--	A12	
A13	REC: Gym area	20 A	1	720 VA	750 VA		2	20 A	EQ: Riser room	A14	
A15	EQ: Return circulating pump	20 A	1		200 VA	750 VA	--	--		A16	
A17	REC: Riser room	20 A	1			1000...	--	--		A18	
A19	REC: Microwave	20 A	1	1000...						A20	
A21	REC: Restroom	20 A	1		360 VA					A22	
A23	REC: Washer	20 A	1			500 VA				A24	
A25	REC: hvac maintenance	20 A	1	180 VA						A26	
A27										A28	
A29						1250...	2	15 A	HVAC: CU-1	A30	
A31				1250...			--	--		A32	
A33					1903...		2	20 A	HVAC: CU-2	A34	
A35							--	--		A36	
A37	HVAC: RTU-1	45 A	3	5398...	7797...		3	70 A	HVAC: RTU-2	A38	
A39	--	--	--		5398...	7797...	--	--		A40	
A41	--	--	--			5398...	7797...	--	--	A42	
<b>Total Load:</b>				30999 VA	29825 VA	29063 VA					
<b>Total Amps:</b>				259 A	250 A	242 A					
<b>Legend:</b>											
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals							
Water Heater	4500 VA	100.00%	4500 VA								
HVAC	45891 VA	100.00%	45891 VA	<b>Total Conn. Load:</b> 89886 VA							
Equipments	24360 VA	65.00%	15834 VA	<b>Total Est. Demand:</b> 80100 VA							
Receptacle	12520 VA	89.94%	11260 VA	<b>Total Conn.:</b> 249 A							
Lighting	2684 VA	100.00%	2684 VA	<b>Total Est. Demand:</b> 222 A							
<b>Notes:</b>											
1- Electrical contractor shall submit over current protective device short circuit study prior to approval of the distribution equipment submittals.											
2- Estimated loads were conservative estimates at time of design, contractor shall contact A&G Engineering should actual connected loads be higher.											

Branch Panel: B											
Location:				Volts: 120/208 Wye				A.I.C. Rating: See notes 1 & 2			
Supply From: A				Phases: 3				Mains Type:			
Mounting: Recessed				Wires: 4				Mains Rating: 125 A			
Enclosure: Type 1								MCB Rating: ----			
Notes:											
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
B1	LTS: Interior area	20 A	1	694 VA	720 VA		1	20 A	REC: Exam room	B2	
B3	LTS: Interior area	20 A	1		768 VA	900 VA	1	20 A	REC: Office	B4	
B5	LTS: Wall packs	20 A	1			535 VA	720 VA	1	20 A	REC: X-Ray room	
B7	LTS: Decorative front lights	20 A	1	428 VA	900 VA		1	20 A	REC: Lobby area	B8	
B9	LTS: Pole lights	20 A	1		314 VA	720 VA				B10	
B11	REC: Exam room	20 A	1			720 VA	720 VA	1	20 A	REC: Break room	
B13	REC: Exam room	20 A	1	720 VA	720 VA					B14	
B15	REC: Exam room	20 A	1		720 VA	540 VA				B16	
B17	REC: Reception	20 A	1			720 VA	720 VA	1	20 A	REC: Reception	
B19	REC: Reception	20 A	1	720 VA	720 VA					B20	
B21	EQ: Break area	20 A	1		1000...	180 VA				B22	
B23	EQ: Break area	20 A	1			1000...	360 VA	1	20 A	REC: X-Ray room	
B25	EQ: Break area	20 A	1	1000...	360 VA					B26	
B27	REC: I.T. room	20 A	1		1000...	1000...				B28	
B29	REC: Office	20 A	1			540 VA	500 VA	1	20 A	REC: Printer	
B31	REC: Electric water cooler	20 A	1	1000...	720 VA					B32	
B33	REC: Gym area	20 A	1		900 VA	200 VA				B34	
B35										B36	
B37										B38	
B39										B40	
B41										B42	
<b>Total Load:</b>				8657 VA	8172 VA	6535 VA					
<b>Total Amps:</b>				74 A	70 A	54 A					
<b>Legend:</b>											
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals							
Equipments	10660 VA	65.00%	6929 VA								
Receptacle	10080 VA	99.60%	10040 VA	<b>Total Conn. Load:</b> 23361 VA							
Lighting	2684 VA	100.00%	2684 VA	<b>Total Est. Demand:</b> 19592 VA							
				<b>Total Conn.:</b> 65 A							
				<b>Total Est. Demand:</b> 54 A							
<b>Notes:</b>											
1- Electrical contractor shall submit over current protective device short circuit study prior to approval of the distribution equipment submittals.											
2- Estimated loads were conservative estimates at time of design, contractor shall contact A&G Engineering should actual connected loads be higher.											

LIGHTING SCHEDULE							
GENERAL				SPECIFICATIONS			
LABEL	QTY	DESCRIPTION	MAKE/MODEL	LAMP	VOLTAGE	WATTS	MOUNTING
A	7	2' X 4' VOLUMETRIC RECESSED LIGHTING	SIGNIFY: 2FGXG48L840-4-RS-UNV-DIM	LED	120 V	36 VA	RECESSED
AE	13	2' X 4' VOLUMETRIC RECESSED LIGHTING EMERGENCY BATTERY PACK	SIGNIFY: 2FGXG48L840-4-RS-UNV-DIM-BSL10LST	LED	120 V	36 VA	RECESSED
B	26	6" RECESSED DOWNLIGHT	SIGNIFY: #6RN / Z6RDL20840WOCZ10U	LED	120 V	21 VA	RECESSED
BE	6	6" RECESSED DOWNLIGHT EMERGENCY BATTERY PACK	SIGNIFY: #6RNEM6 / Z6RDL20840WOCZ10U	LED	120 V	21 VA	RECESSED
C	5	SIGNIFY 101L WALL PACK, 11237 LUMENS.	SIGNIFY: 101L-32L-1000-NW-G2-4-UNV-XX	LED	120 V	107 VA	WALL MOUNTED
D	2	SIGNIFY ECOFORM AREA 48L BLC, 14544 LUMENS	ECF-S-48L-1A-NW-G2-AR-BLC-UNV-XX	LED	120 V	157 VA	POLE
E	13	AC ZOLO 7, WASHER/GRAZER, DRY RATED, WET RATED, HIGH PURITY TEMPERED GLASS.	KELVIX: Z7AC-4-9-W-Z-40-50-L3-WH	LED	120 V	27 VA	WALL MOUNTED
E1	3	EMERGENCY EXIT 1W (2) LED LAMPS FURNISHED	SIGNIFY: #VLTOR3R	LED	120 V	3 VA	WALL MOUNTED
F	4	4' STRIPLIGHT BASIC LIGHTING	SIGNIFY: FSSEZ440L840-UNV-DIM	LED	120 V	40 VA	SURFACE
G	1	10 FEET RECESSED LIGHT.	3R-10-MD-40-UNV-T1-WH	LED	120 V	60 VA	RECESSED
GE	2	10 FEET RECESSED LIGHT, BATTERY PACK INCLUDED.	3R-10-MD-40-UNV-T1-WH-EM	LED	120 V	60 VA	RECESSED
H	2	24" BRUSHED NICKEL STANDARD, CONTEMPORARY WALL SCONCE LIGHT	BROWNL EE: 5165-24-WH-H16-35K	LED	120 V	16 VA	WALL MOUNTED
Grand total: 84							

LOAD ANALYSIS INDIVIDUAL SUITE	
SUITE NAME: WHITE BOX	SUITE AREA: 1,726 SF
<b>CONNECTED LOAD CALCULATION:</b>	
GENERAL LIGHTING:	1,726 SF X 3 VA/SF= 5,178 VA
OUTSIDE SIGN CIRCUIT:	1,200 VA
RECEPTACLES (ESTIMATING 40 RECEPTACLES X 180 WATTS):	7,200 VA
WATER HEATER	4,500 VA
EQUIPMENT	8,000 VA
HVAC UNIT (PROPOSED 10 TONS , 30KW HEATING, 208V, 3-PHASE):	31,666 VA
<b>TOTAL:</b>	57,744 VA
<b>DESIGN LOAD CALCULATION:</b>	
GENERAL LIGHTING:	5,178 VA X 1.25= 6,473 VA
OUTSIDE SIGN CIRCUIT:	1,200 VA X 1.25= 1,500 VA
RECEPTACLES:	7,200 VA X 1.0/0.5= 7,200 VA
WATER HEATER	4,500 VA X 1.0= 4,500 VA
EQUIPMENT	8,000 VA X 1.0= 8,000 VA
HVAC UNIT:	31,666 VA X 1.25= 39,583 VA
<b>TOTAL:</b>	67,255 VA
<b>CALCULATED LOAD FOR SERVICE SIZE:</b>	
67,255 VA	= 186.9 AMPS
3Ø X 208V	
<b>SELECTED SERVICE:</b>	
-MAIN FUSE: 200 AMPS.	

0 ISSUE FOR PERMIT 01 JUN 2023  
No. DESCRIPTION DATE

01 JUN 2023

A&G Engineering  
MEP Design  
1004 W Frontage Rd  
Alamo, TX 78516  
(956) 787 - FIRE  
info@AandGMEP.com

**KHIT**  
**CHIROPRACTIC**  
**WELLNESS**

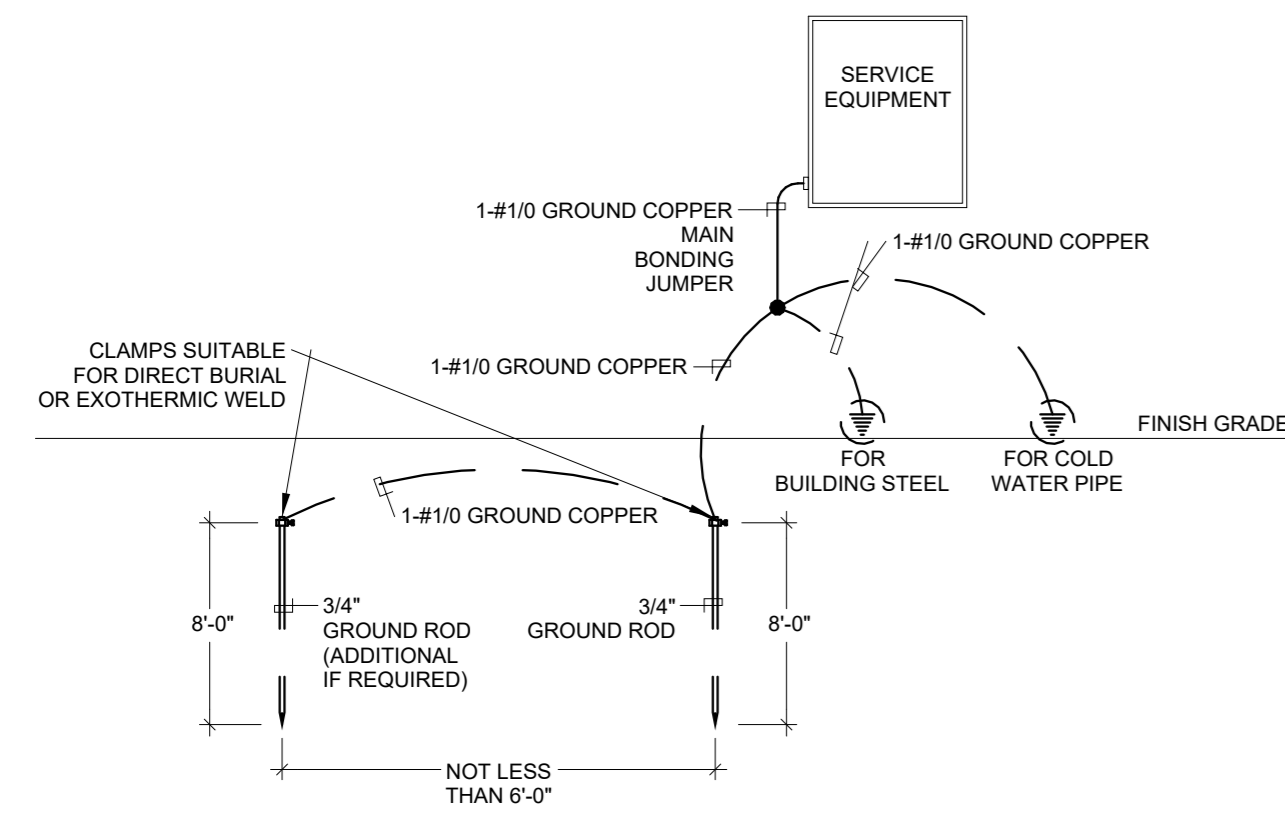
6151 E. POST RD.  
KYLE TX, 78640

22 02 10 01 JUN 2023  
**Schedules/Details - Elec**

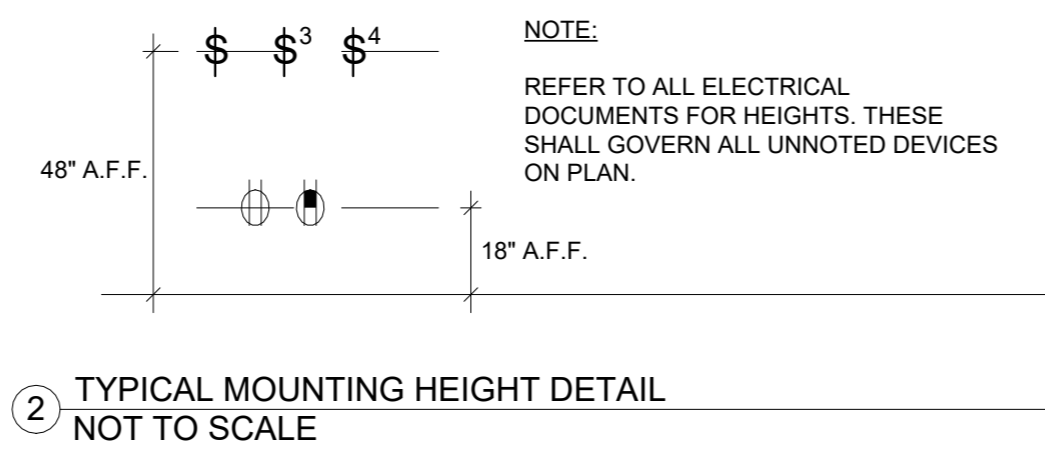
**E 3.0**

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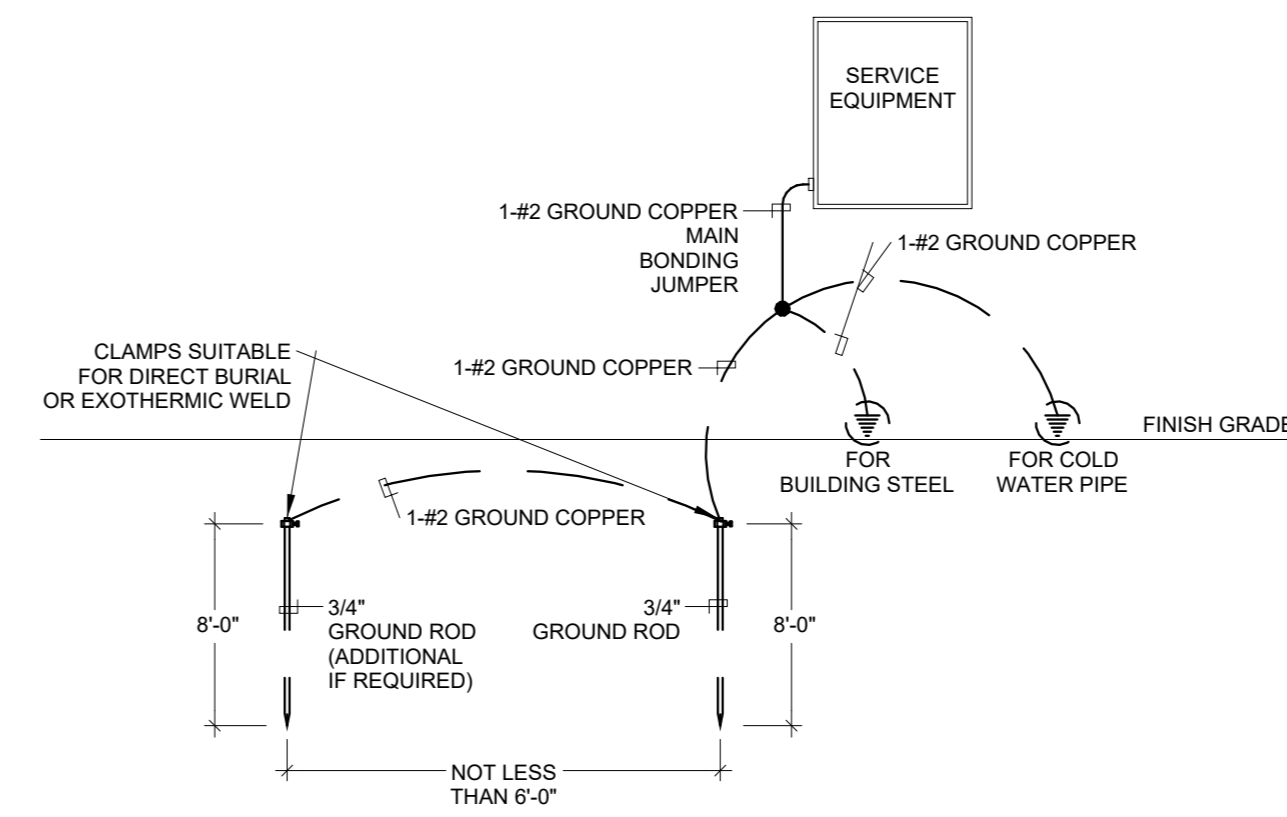




1 GROUNDING DETAIL 1  
NOT TO SCALE



2 TYPICAL MOUNTING HEIGHT DETAIL  
NOT TO SCALE



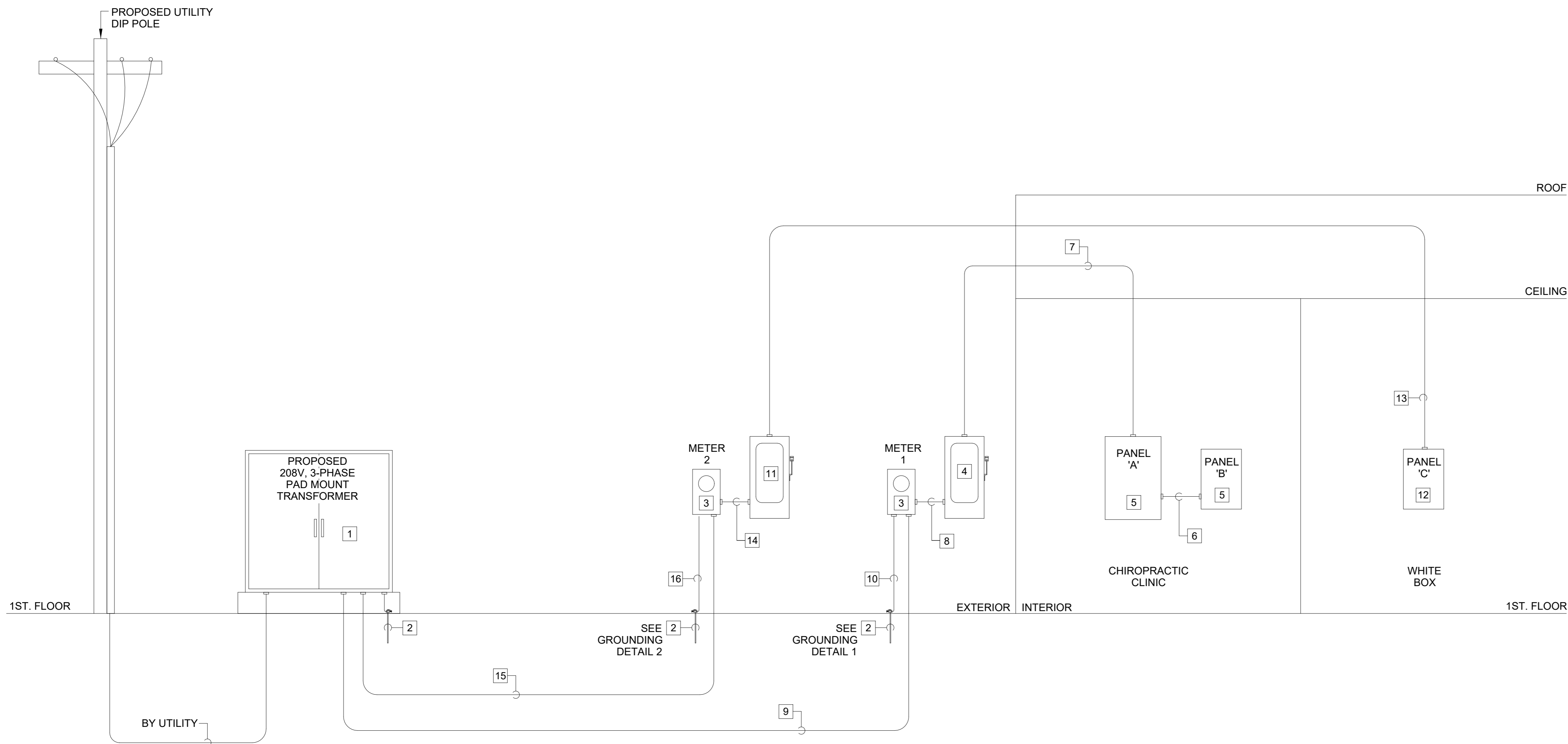
3 GROUNDING DETAIL 2  
NOT TO SCALE

**GENERAL NOTES:**

- A. ALL LIGHT FIXTURE SUBSTITUTION SHALL BE APPROVED BY OWNER AND MUST BE EQUAL OR BETTER QUALITY THAN APPROVED FIXTURES.
- B. ALL 120 VOLTS, 1-PHASE, 20 AMPS RECEPTACLES INSTALLED SHALL BE AFCI CIRCUIT BREAKER TYPE.
- C. PROVIDE A 120V DEDICATED CIRCUIT FOR WIRED SMOKE DETECTORS. CONTRACTOR SHALL PLACE SMOKE DETECTORS AS REQUIRED BY IFC AND THE LOCAL AUTHORITY HAVING JURISDICTION.
- D. EQUIPMENT GROUNDING CONDUCTORS SHALL NOT BE TERMINATED OR ROUTED THROUGH METER SOCKET. GROUNDING SHALL BE ESTABLISHED PER 2017 NEC 250.24(A)(1)

**KEYED NOTES:**

- 1. PROPOSED POWER COMPANY PAD MOUNT TRANSFORMER ON CONCRETE PAD. CONTRACTOR SHALL COORDINATE CONFIGURATION WITH UTILITY COMPANY AND ENSURE INSTALLATION.
- 2. CONTRACTOR SHALL PROVIDE AND INSTALL GROUNDING ROD PER NOTED NEC.
- 3. CONTRACTOR SHALL PROVIDE AND INSTALL AN ELECTRIC METER, ELECTRICAL CONTRACTOR SHALL COORDINATE METER SOCKET CONFIGURATION WITH LOCAL UTILITY COMPANY.
- 4. CONTRACTOR SHALL PROVIDE AND INSTALL 400A, 208V, 3-PHASE, 300A FUSED, NEMA-3R, MAIN DISCONNECT SWITCH TO SERVE WIRING LUGS INSIDE WIREWAY. NOTE: UTILITY COMPANY SHALL PROVIDE VANDAL RESISTANT SEAL ON DISCONNECT AND CONTRACTOR SHALL ENSURE INSTALLATION.
- 5. CONTRACTOR SHALL REVIEW ELECTRICAL PANEL BOARD AND REFER TO PANEL SCHEDULES FOR FURTHER INFORMATION.
- 6. CONTRACTOR SHALL PROVIDE AND INSTALL 4-#1 COPPER, 1-#8 GROUND COPPER, IN 1-1/2" CONDUIT.
- 7. CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) SETS EACH WITH: 4-#2/0 COPPER, 1-#4 GROUND COPPER, IN 2" CONDUIT.
- 8. CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) SETS EACH WITH: 4-#2/0 COPPER, IN 2" CONDUIT.
- 9. CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) SETS EACH WITH: 4-#2/0 COPPER, IN 4" CONDUIT.
- 10. CONTRACTOR SHALL PROVIDE AND INSTALL 1-# 1/0 GROUND COPPER, IN 3/4" CONDUIT.
- 11. CONTRACTOR SHALL PROVIDE AND INSTALL 200A, 208V, 3-PHASE, 200A FUSED, NEMA-3R, MAIN DISCONNECT SWITCH TO SERVE WIRING LUGS INSIDE WIREWAY. NOTE: UTILITY COMPANY SHALL PROVIDE VANDAL RESISTANT SEAL ON DISCONNECT AND CONTRACTOR SHALL ENSURE INSTALLATION.
- 12. PROVIDE AND INSTALL AN ELECTRICAL PANEL BOARD, 225A MAIN LUGS, 200A MAIN BREAKER, NEMA-1, 42 SPACES.
- 13. CONTRACTOR SHALL PROVIDE AND INSTALL 4-# 4/0 COPPER, 1-#6 GROUND COPPER, IN 2-1/2" CONDUIT.
- 14. CONTRACTOR SHALL PROVIDE AND INSTALL 4-# 4/0 COPPER, IN 2-1/2" CONDUIT.
- 15. CONTRACTOR SHALL PROVIDE AND INSTALL 4-# 4/0 COPPER, IN 4" CONDUIT.
- 16. CONTRACTOR SHALL PROVIDE AND INSTALL 1-#2 GROUND COPPER, IN 3/4" CONDUIT.



4 ELECTRICAL RISER DIAGRAM  
NOT TO SCALE

0	ISSUE FOR PERMIT	01 JUN 2023
No.	DESCRIPTION	DATE

01 JUN 2023

**AG** Engineering  
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**KHIT**  
CHIROPRACTIC  
WELLNESS

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KYLE TX, 78640

22 02 10 01 JUN 2023  
Schedules/Details -  
Elec

**E 3.1**



**GENERAL NOTES - MECHANICAL (HVAC):**

- A. HVAC CONTRACTOR REQUIREMENTS:
- A.1. ALL WORK UNDER THIS CONTRACT SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODES. WHERE THESE PLANS AND SPECIFICATIONS ARE IN CONFLICT WITH SUCH CODES, THE CODES SHALL GOVERN. BIDS SUBMITTED BY CONTRACTOR SHALL INCLUDE CONCEALED: SNAPS TO COMPLY WITH ALL SUCH CODES. ANY ITEMS REQUIRED AND/OR MISSED IN THESE BASIS OF DESIGN DOCUMENT, SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR AT CONTRACTORS EXPENSE AND ZERO EXPENSE TO THE OWNER AND/OR DESIGN TEAM. CONTRACTOR SHALL PAY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES OF INSPECTION.
- A.2. CONTRACTOR SHALL STUDY CONTRACT DOCUMENTS, FULLY UNDERSTAND AND ACCEPT THE BASIS OF DESIGN AND SCOPE OF WORK. SUBMISSION OF BID INDICATES CONTRACTOR'S COMPLETE APPROVAL AND ACCEPTANCE OF CONSTRUCTION DOCUMENTS.
- A.3. CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SKILLED WORKMEN, TRAINED, LICENSED AND EXPERIENCED IN COMMERCIAL HVAC WORK, AND WHO ARE FAMILIAR WITH THE CONSTRUCTION METHODS AND JOBS REQUIRED.
- A.4. CONTRACTOR SHALL PROVIDE A MINIMUM 1 YR. WARRANTY ON ALL LABOR AND MATERIALS INSTALLED. CONTRACTOR SHALL MAKE ALL WARRANTY REPAIRS OR REPLACEMENTS IN A TIMELY MANNER, AT NO ADDITIONAL COST TO THE OWNER.
- B. BASIS OF DESIGN:
- B.1. ALL CONSTRUCTION DOCUMENTS PROVIDED BY OWNER, INCLUDING ENGINEERING DRAWINGS, NOTES, SCHEDULES, DETAILS, CALCULATIONS AND SPECIFICATIONS PROVIDED, ALONG WITH EQUIPMENT MANUFACTURER'S DRAWINGS AND SPECIFICATIONS, FORM THE BASIS OF DESIGN.
- B.2. THE BASIS OF DESIGN WILL BE USED FOR ALL INSPECTIONS, TESTING AND ACCEPTANCE OF THE WORK PERFORMED BY THE CONTRACTOR TO VERIFY SUCCESSFUL COMPLETION OF SCOPE OF WORK.
- C. SCOPE OF WORK:
- C.1. FURNISH ALL REQUIRED LABOR, MATERIALS, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO PERFORM THE WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL MAKE ALL INSTALLATIONS ACCORDING TO THOSE SHOWN ON PLANS.
- C.2. INSTALL COMPLETE AND OPERABLE HVAC SYSTEMS AS DESCRIBED BY THE CONSTRUCTION DOCUMENTS. INCIDENTAL ITEMS NOT SPECIFIED, BUT WHICH ARE ESSENTIAL FOR THE PROPER OPERATION OF SPECIFIED SYSTEMS AND EQUIPMENT, ARE INCLUDED IN THE SCOPE OF WORK AND SHALL BE PROVIDED BY CONTRACTOR AT NO ADDITIONAL COST.
- C.3. COMPLY WITH COMMISSIONING PLAN SHOWN ON DRAWINGS AND AS IMPLEMENTED BY OWNER'S DESIGNATED 'COMMISSIONING AUTHORITY' (CA).
- C.4. PROVIDE STRUCTURAL ENGINEERING DESIGN, DRAWINGS AND MODIFICATIONS FOR INSTALLATION OF HVAC EQUIPMENT OVER 200 LBS., UTILIZING THE BUILDING STRUCTURE OR FOUNDATION FOR SUPPORT, UNLESS PROVIDED BY OWNER OR ARCHITECT.
- D. CODE OF COMPLIANCE:
- D.1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCALLY ADOPTED MECHANICAL, FUEL GAS AND PLUMBING CODES, ACCORDING TO THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
- D.2. THE BASIS OF DESIGN IS INTENDED TO COMPLY WITH ALL LOCAL CODES ENFORCED BY THE AHJ OVER THIS PROJECT. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS MADE BY THE AHJ, WHETHER SPECIFICALLY SHOWN ON PLANS OR NOT.
- E. DISCREPANCIES:
- E.1. IN THE CASE OF A DISCREPANCY BETWEEN DRAWINGS, SPECIFICATIONS OR MANUFACTURER'S REQUIREMENTS, THE MOST STRINGENT SHALL APPLY AND BE COMPLIED WITH BY THE CONTRACTOR.
- E.2. IN THE CASE OF A DISCREPANCY BETWEEN CODES AND THE CONSTRUCTION DOCUMENTS OR MANUFACTURER'S REQUIREMENTS, THE AHJ SHALL DETERMINE WHICH SHOULD BE COMPLIED WITH BY THE CONTRACTOR.
- F. JOBSITE CONDITIONS:
- F.1. CONTRACTOR SHALL EXAMINE THE JOBSITE PRIOR TO BIDDING AND FULLY UNDERSTAND THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, BY SUBMITTING BID FOR WORK CONTRACTOR HAS ACCEPTED ALL CONDITIONS AS-IS.
- F.2. CONTRACTOR SHALL LOCATE AND INSPECT ANY EXISTING HVAC EQUIPMENT TO BE REUSED AND OR MODIFIED, PRIOR TO BIDDING WORK. DIMENSIONAL AND PERFORMANCE DATA FOR EXISTING EQUIPMENT SHOWN ON THE PLANS ARE ESTIMATES ONLY AND NOT EXACT.
- F.3. FIELD VERIFY ROOF STRUCTURE AND TRUSS SPACING PRIOR TO STARTING WORK. CONTRACTOR SHALL EMPLOY A STRUCTURAL ENGINEER FOR ANY ROOF MOUNTED EQUIPMENT ABOVE 100 LBS.
- G. PERMITS AND FEES:
- G.1. CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS, LICENSES, AND CERTIFICATIONS REQUIRED BY THE AHJ AND PAY FOR ALL PERMITTING FEES.
- H. CONSTRUCTION DRAWINGS:
- H.1. DRAWINGS ARE GENERALLY SCHEMING IN NATURE. DUCTWORK, PIPING, CONTROLS AND EQUIPMENT SHOWN ON DRAWINGS IS UNDERSTOOD TO BE THE GENERAL ARRANGEMENT ONLY, TO BE FIELD ADJUSTED AS REQUIRED.
- H.2. ITEMS WITH SPECIFIC LOCATIONS AND OR SIZES WILL BE DIMENSIONED ON THE PLANS.
- H.3. DRAWINGS DO NOT SHOW EVERY DETAIL OR ITEM REQUIRED FOR EQUIPMENT INSTALLATIONS. REFER TO ALL EQUIPMENT MANUFACTURER'S INSTRUCTIONS FOR ADDITIONAL REQUIRED PARTS AND ACCESSORIES NEEDED FOR COMPLETE INSTALLATIONS.
- H.4. FOR ALL STRUCTURAL ENGINEERING REQUIRED, UTILIZE ACTUAL EQUIPMENT WEIGHTS FROM EQUIPMENT SUPPLIERS FOR STRUCTURAL DESIGN. EQUIPMENT WEIGHTS SHOWN ON DRAWINGS ARE PRELIMINARY.
- H.5. OBTAIN FINAL SUBMITTALS ON ALL OWNER FURNISHED COMMERCIAL KITCHEN FANS, HOODS AND REFRIGERATION EQUIPMENT TO BE INSTALLED BY HVAC CONTRACTOR, AS SHOWN ON PLANS, PRIOR TO STARTING WORK. EQUIPMENT DATA SHOWN AND SCHEDULED ON PLANS IS PRELIMINARY.
- H.6. ADJUST DUCTWORK SIZES AND PROVIDE OFFSETS AS NEEDED TO PASS DUCTWORK BETWEEN ROOF TRUSSES OR THROUGH WALL FRAMING WHERE REQUIRE. SIZES AND TRANSITIONS SHOWN ON PLANS ARE PRELIMINARY ONLY. FINAL COORDINATION AND DETAILING OF DUCTWORK SHALL BE PROVIDED BY HVAC CONTRACTOR.
- I. COORDINATION WITH OTHER TRADES:
- I.1. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO AVOID INTERFERENCES, PROPERLY SEQUENCE INSTALLATION, AND PROVIDE MANUFACTURERS REQUIRED SERVICE CLEARANCES. WHERE REQUIRED, CONTRACTOR SHALL MAKE THE REQUIRED ADJUSTMENTS.
- I.2. ALL FUEL GAS CONNECTION TO HVAC EQUIPMENT, INCLUDING SERVICE VALVES, REGULATORS, FLEXIBLE COUPLINGS, AND OTHER FITTINGS SHALL BE PROVIDED BY PLUMBING CONTRACTOR AS REQUIRED BY MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE THE ACTUAL FUEL GAS PIPING REQUIREMENTS TO PLUMBING CONTRACTOR.
- I.3. ALL ELECTRICAL CONNECTIONS TO HVAC EQUIPMENT SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR, INCLUDING STARTERS, SPEED CONTROLLERS, DISCONNECTS, ENCLOSURES AND LABELS. PROVIDE ELECTRICAL CONTRACTOR THE ACTUAL SERVICE REQUIREMENTS FOR ALL HVAC EQUIPMENT.
- I.4. COORDINATE WITH ROOFING CONTRACTOR TO SEAL ALL ROOF CURBS AND PIPING PENETRATIONS THROUGH ROOF PER ARCHITECTURAL ROOFING SPECIFICATIONS. PROVIDE ALL REQUIRED WEATHERPROOFING.
- I.5. COORDINATE WITH FIRE ALARM CONTRACTOR TO CONNECT DUCT MOUNTED SMOKE DETECTORS TO FIRE ALARM SYSTEM, IF REQUIRED. PROVIDE ALL REQUIRED FAN SAFETY INTERLOCKS PER CONTROL DRAWINGS.
- J. CONTRACTOR FURNISHED EQUIPMENT & MATERIALS:
- J.1. SHALL BE NEW, MANUFACTURED AND CERTIFIED TO COMPLY WITH THE BASIS OF DESIGN, FREE OF DEFECTS AND COVERED UNDER A MINIMUM 1-YEAR FACTORY WARRANTY, UNLESS SPECIFIED DIFFERENTLY ELSEWHERE.
- J.2. SHALL BE AS SPECIFIED IN CONSTRUCTION DOCUMENTS, OR AS ACCEPTABLE SUBSTITUTION OF EQUAL ITEM. ALL SUBSTITUTIONS MUST BE 'APPROVED' THROUGH THE COMMISSIONING PROCESS TO BE ACCEPTABLE.
- J.3. SHALL BE OF COMMERCIAL GRADE EQUIPMENT AND MATERIALS, UNLESS OTHERWISE INDICATED IN CONSTRUCTION DOCUMENTS.
- K. DELIVERY, STORAGE AND PROTECTION:
- K.1. CONTRACTOR SHALL FURNISH DELIVERY OF ALL REQUIRED MATERIALS AND EQUIPMENT TO BE INSTALLED. CONTRACTOR SHALL VERIFY ALL EQUIPMENT IS UNDAMAGED AT THE TIME OF DELIVERY FROM THE FACTORY. DAMAGED ITEMS SHOULD BE RETURNED TO THE FACTORY FOR REPLACEMENTS AT NO ADDITIONAL COST TO THE OWNER.
- K.2. WHERE REQUIRED, CONTRACTOR SHALL PROVIDE CRANE AND OR ALL RIGGING EQUIPMENT NEEDED TO INSTALL HVAC EQUIPMENT IN PLACE AS SHOWN ON PLANS.
- K.3. CONTRACTOR SHALL COORDINATE WITH OWNER TO OBTAIN ACCEPTABLE JOBSITE STORAGE LOCATION TO COMPLY WITH OWNER REQUIREMENTS FOR PROTECTIONS, ACCESS AND SECURITY OF MATERIALS STORED ONSITE.
- K.4. CONTRACTOR SHALL TAKE ALL REQUIRED PRECAUTION TO PROPERLY, PROTECT ALL STORED MATERIALS FORM WEATHER, DAMAGE, THEFT OR ANY OTHER HAZARD PRESENT AT THE STORAGE LOCATION.
- L. JOBSITE CLEANUP:
- L.1. REMOVE ALL CONSTRUCTIONS DEBRIS FROM THE JOBSITE AS REQUIRED AND PRIOR TO COMPLETION OF ALL WORK. ALL WORK AREAS SHOULD BE BROOK CLEANED, AND EQUIPMENT WIPED CLEAN PRIOR TO FINISHING PROJECT.
- M. SPARE PARTS:
- M.1. PRIOR TO COMPLETION OF WORK, CONTRACTOR SHALL PROVIDE OWNER WITH ALL SPARE PARTS PROVIDED FORM FACTORY WITH ANY EQUIPMENT PURCHASED FOR THE PROJECT.

- N. CORRECTIONS REQUIRED:
- N.1. IF CONTRACTOR IDENTIFIES ANY ACTUAL SITUATION OR SITE CONDITION THAT WILL PROHIBIT OR NEGATIVELY IMPACT THE INSTALLATION OR PERFORMANCE OF THE SYSTEMS AS DESIGNED, CONTRACTOR SHOULD STOP ALL WORK AND NOTIFY THE ENGINEER IMMEDIATELY.
- N.2. IF CONTRACTOR PERFORMS WORK, AND OR INSTALS ANY EQUIPMENT THAT IS FOUND TO BE DEFECTIVE, OR OUT OF COMPLIANCE WITH BASIS OF DESIGN, MANUFACTURERS INSTRUCTIONS, OR CODE REQUIREMENTS, CONTRACTOR SHALL REPLACE THE DEFECTIVE WORK AT NO ADDITIONAL COST TO THE OWNER. ALL NEW WORK SHALL COMPLY WITH THE CONTRACT DOCUMENTS.
- N.3. IF CONTRACTOR DAMAGES ADJACENT PROPERTY WHILE PERFORMING SCOPE OF WORK, HE SHALL MAKE PROMPT REPAIR OF ALL DAMAGE AT OWN EXPENSE, PRIOR TO REQUESTING FINAL PAYMENT.
- O. SCOPE: PROVIDING ALL LABOR, MATERIAL, AND EQUIPMENT IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE ACCOMPANYING DRAWING TO PROVIDE A COMPLETE AND PROPERLY OPERATING HEATING, VENTILATING, AIR CONDITIONING, AND REFRIGERATION SYSTEMS FOR THE BUILDING. WORK UNDER THIS SECTION INCLUDES, BUT IS NOT NECESSARILY LIMITED TO:
- O.1. FURNISH AND INSTALL THE FOLLOWING: ROOFTOP UNITS AND CURBS OR DX SPLIT SYSTEMS DUCT INSULATION AND DUCT WORK FOR HVAC SYSTEMS DIFFUSERS, GRILLES, AND PLENUM BOXES CONTROL PANEL AND CONTROL WIRING.
- O.2. INSTALL THE FOLLOWING: - EXHAUST FANS, HOODS, AND DUCTS FOR VENTILATION OF COOKING EQUIPMENT - ICE MACHINE AIR COOLED CONDENSER OR ROOF.
- O.3. GENERAL REQUIREMENTS: COORDINATION: COORDINATE WORK WITH OTHERS TRADES. LOCATIONS SHOWN ARE APPROXIMATE. REFER TO THE ARCHITECTURAL PLANS FOR EXACT MEASUREMENTS IN THE PLUMBING OF EQUIPMENT, FIXTURES, OUTLETS, ETC. WHERE THE LOCATIONS ARE NOT CLEAR, OBTAIN THE EXACT LOCATION FROM OWNER AND FIELD VERIFY. THE PLANS DO NOT GIVE EXACT DETAILS AS TO ELEVATIONS AND LOCATION OF VARIOUS PIPES, FITTINGS, DUCTS, CONDUIT, ETC., AND DO NOT SHOW ALL OFFSETS AND OTHER INSTALLATION DETAILS WHICH MAY BE REQUIRED.
- P. MECHANICAL CONTRACTOR SHALL VERIFY THAT ALL EQUIPMENT, AS SHOWN ON THESE DRAWINGS, WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, EVENTS, ETC.
- Q. ALL ROOF MOUNTED EQUIPMENT AND PENETRATIONS SHALL BE FLASHED A MINIMUM OF 12" ABOVE THE ROOF. PROVIDE AMPLE CURBS OF PIPE SEALS FOR ELECTRICAL CONDUITS WHICH SUPPLY MECHANICAL EQUIPMENT.
- R. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM ANY EXHAUST FAN OR PLUMBING VENT.
- S. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR EQUIPMENT FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH HE INSTALLS. THIS INCLUDES ALL CONDENSERS, REFRIGERANT LINES, AND OTHERS ITEMS FURNISHED BY OTHERS AS WELL AS THOSE FURNISHED BY HIM.
- T. CONDENSATE DRAINAGE FROM ROOF TOP HVAC UNITS SHALL BE TRAPPED.
- U. PROVIDE VIBRATIONS ISOLATION DEVICES AND FLEXIBLE CONNECTIONS TO ALL MOVING MACHINERY.
- V. ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
- W. MECHANICAL CONTRACTORS SHALL COORDINATE ALL DUCTS AND DIFFUSER LOCATIONS WITH LIGHTING LAYOUTS AS REQUIRED.
- X. THE CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION TO THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR COMPLETION AND COORDINATION OF THE COMPLETE PROJECT.
- Y. THE CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES, ALL REQUIRED OPENINGS AND EXCAVATIONS. ALL OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOF SHALL BE DESIGNED INTO THE STRUCTURE INITIALLY BY THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
- Z. THERMOSTATS SHALL BE LOCATED GENERALLY AS SHOWN BUT THEIR EXACT LOCATION SHALL BE FIELD COORDINATED TO AVOID INTERFERENCE WITH WALL MOUNTED ITEMS. ONCE FIELD IDENTIFICATION, MOUNT 42" AFF.
- AA. THE GENERAL CONTRACTOR SHALL PERFORM AND BE RESPONSIBLE FOR ALL REFRIGERATION WORK REQUIRED FOR THE ICE MACHINES. ALL THIS WORK SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CONTACT THE EQUIPMENT SUPPLIERS TO OBTAIN ALL NECESSARY INFORMATION TO PERFORM THE REFRIGERATION WORK. E.G. SHALL ALSO BE RESPONSIBLE FOR ARRANGING FACTORY AUTHORIZED START-UP AND ADJUSTMENT ON THE ICE MACHINES.
- AB. MECHANICAL CONTRACTOR TO INSULATE BACKSIDE OF ALL DIFFUSERS.
- AC. TRANSITION ALL DUCTS AS REQUIRED TO ATTACH TO EQUIPMENT.
- AD. OFFSET RETURN AIR DUCTS FOR ROOF TOP AC UNITS TO AVOID FRAMING AS REQUIRED.
- AE. ALL DAMAGED COIL FINS SHALL BE COMBED STRAIGHT PRIOR TO OWNER HANDOVER.
- AF. "RE-ENGINEERING" "VALUE ENGINEERING" OR ANY DEVIATIONS FROM THE SHOWN DESIGN AND REQUIRED HVAC EQUIPMENT MUST BE REQUESTED AND APPROVED PRIOR TO BIDDING. UNAUTHORIZED SUBSTITUTIONS OR ALTERATIONS WILL VOID THE SIGNATURE AND SEAL OF THE PROFESSIONAL ENGINEER & ARCHITECT OF RECORD AND LEAVE VIOLATORS RESPONSIBLE FOR RESUBMISSION OF SIGNED AND SEALED DRAWINGS.
- AG. EXHAUST HOOD NOTES
- AG.1. THE FOLLOWING EQUIPMENT SHALL BE SUPPLIED BY OWNER AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- AG.2. STAINLESS STEEL HOODS AS SPECIFIED PRE PIPED FOR FIRE PROTECTION SYSTEM, AND CEILING CLOSURE STRIP.
- AG.3. EXHAUST FANS AND CURBS EXCEPT RESTROOM EXHAUST FAN AND CURBS.
- AH. THE MECHANICAL CONTRACTOR SHALL RECEIVE THE ABOVE EQUIPMENT, UNCRATE, BE RESPONSIBLE FOR REPORTING DAMAGE RECEIVED DURING SHIPMENT, AND BE RESPONSIBLE FOR LOSS OR DAMAGE TO THE ABOVE EQUIPMENT ONCE RECEIVED ON THE JOB.
- AI. EXHAUST HOODS PROVIDED WILL MEET OR EXCEED THE FOLLOWING REQUIREMENTS:
- AK. - NSF # 1362 BEAR THE NSF SEAL OF APPROVAL
- AL. - U.L. CLASSIFICATION # 24N1
- AM. - MEET OR EXCEED NFPA # 96 (AHJ ADOPTED EDITION) & IMC
- AO. - IF REQUIREMENTS ARE NOT MEET, SEEK OWNER APPROVAL.
- AP. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO OBTAINING A SET OF SHOP DRAWINGS FROM THE HOOD MANUFACTURER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE HOOD MANUFACTURER OF ANY LOCAL CODES WHICH WILL AFFECT THE HOOD MANUFACTURE OR INSTALLATION.
- AQ. THE HOOD MANUFACTURER WILL PROVIDE PRE-PIPED AUTOMATIC FIRE CONTROL SYSTEMS FOR ANY FRYER HOOD INCLUDING FIRE CONTROL CABINETS - AND FURNISH A 2 POLE MICRO SWITCH THERMOSTAT AS SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE HOOD MANUFACTURER FOR FINAL INSTALLATION AND INSPECTIONS OF THE HOOD FIRE EXTINGUISHING SYSTEM. - COMPLETE EXTINGUISHING BY HOOD MANUFACTURER.
- AR. THE PLUMBING CONTRACTOR SHALL INSTALL THE MECHANICAL GAS VALVE IN ACCORDANCE WITH THE PLUMBING DRAWINGS. THE VALVE WILL BE PROVIDED TO HIM BY THE HOOD SUPPLIER. VERIFY WITH LOCAL AUTHORITIES.
- AS.1. EXHAUST HOOD DUCT NOTES
- AS.1. ALL FLYER EXHAUST COLLARS AND EXHAUST DUCTWORKS ARE SIZED TO MAINTAIN NOTED EXHAUST AIR VELOCITY. ALL GREASE EXHAUST DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH NFPA-96. GREASE EXHAUST DUCTWORK SHALL HAVE ALL SEAMS, JOINTS AND PENETRATIONS SEALED LIQUID TIGHT.
- AS.2. ALL HORIZONTAL RUNS OF GREASE DUCT, EXHAUST OR CONDENSATE SPLIT SLOPE BACK TOWARD THE HOOD, GRILLE OR DRAIN AT A SLOPE OF 1" PER FOOT. PROVIDE A RESIDUE TRAP AT THE BASE OF EACH VERTICAL RISER.
- AS.3. THE MECHANICAL CONTRACTOR IS TO PROVIDE CLEANOUTS, IN GREASE EXHAUST DUCTWORK AT A MINIMUM OF 10' INTERVALS, AT EACH CHANGE OF DIRECTION AND AT EACH RESIDUE TRAP.
- AS.4. THE DISCHARGE OF THE GREASE EXHAUST FAN SHALL BE UPWARD AND A MINIMUM OF 40" ABOVE THE HOOD SURFACE AND A MINIMUM OF 10" FROM ANY OUTSIDE AIR INTAKE.
- AS.5. ALL GREASE EXHAUST DUCTS SHALL HAVE LONG RADIUS ELBOWS.
- AS.6. GREASE EXHAUST DUCT SHALL BE CARBON STEEL 16 GAUGE WELDED SHEETS PER NFPA-96 PROTECTED WITH THE FOLLOWING: 1" AIR SPACE FROM DUCT TO 22 GA SHEET METAL COVERED WITH 1" MINERAL WOOD AND WIRE MESH SECURED TO COMBUSTIBLES WITH 1" NON COMBUSTIBLE SPACERS TO REDUCE CLEARANCE TO COMBUSTIBLE TO 3" PER NFPA 96 A-1-3.2.

**EQUIPMENT & MATERIAL - MECHANICAL (HVAC):**

- AT. DUCTWORK SYSTEMS:
- AT.1. ROUND DUCT: GALVANIZED STEEL, MINIMUM 1" PRESSURE RATED OR AS SHOWN ON PLANS. FACTORY MADE ELBOWS AND FITTINGS OR QUALITY GAUGE, AND SLIP JOINT CONNECTIONS. CONCEALED: SNAPS TO COMPLY WITH ALL SUCH CODES. ANY ITEMS REQUIRED AND/OR MISSED FOR 1" PRESSURE RATING, OR AS SHOWN ON PLANS, ALL TRANSVERSE JOINTS AND DUCT WALL PENETRATION SEALED WITH METALLIC DUCT TAPE OR MASTIC. ANY INTERIOR DUCTWORK DOWNSTREAM OF EXHAUST FANS SHALL HAVE HARD CAST MASTIC SEALER ON ALL JOINTS AND SEAMS.
- AT.1.1. CONCEALED: SPIRAL ROUND TYPE, STANDARD GAUGES AND SIZES FOR 1" PRESSURE RATING OR AS SHOWN ON PLANS. ALL TRANSVERSE JOINTS AND DUCT WALL PENETRATIONS SEALED WITH CLEAR SILICONE. INSTALL IN NEAT AND ORDERLY MANNER WITH FINISHED APPEARANCES, INCLUDING ALL HANGERS AND SUPPORTS. CLEAN ALL EXTERIOR SURFACES FOR PAINTING AFTER INSTALLATION.
- AT.2. RECTANGULAR DUCT: GALVANIZED STEEL, MINIMUM 1" PRESSURE RATED OR AS SHOWN ON PLANS, MINIMUM 2" PRESSURE RATED, AND REINFORCED PER LATEST VERSION OF "SMACNA HVAC DUCT CONSTRUCTION STANDARDS". ANY INTERIOR DUCTWORK DOWNSTREAM OF EXHAUST FANS SHALL HAVE HARD CAST MASTIC SEALER ON ALL JOINTS AND SEAMS.
- AT.2.1. CONCEALED: ALL TRANSVERSE JOINTS AND DUCT WALL PENETRATIONS SEALED WITH METALLIC DUCT TAPE OR MASTIC. SUPPLY AND RETURN DUCTWORK IN UNCONDITIONED SPACES SHALL HAVE MINIMUM R-8 EXTERNAL DUCT WRAP INSULATION AFTER SEALING.
- AT.2.2. EXPOSED ALL TRANSVERSE JOINTS AND DUCT WALL PENETRATIONS SEALED WITH CLEAR SILICON CAULKING. EXTERIOR DUCT INSTALLATIONS SHALL HAVE WELDED OR FLANGED AND GASKETED JOINTS. MINIMUM R-6 INTERNAL, FOIL-FACED DUCT LINER FOR FINISHED AREAS, MINIMUM R-6 EXTERIOR DUCT INSULATION BOARD FOR MECHANICAL ROOMS, AND R-6 DUCT WRAP FOR ALL OTHER UNCONDITIONED AREAS WHERE EXPOSED.
- AT.3. FLEX DUCT: HEAVY SPRING STEEL WIRE HELIX, PERMANENTLY BONDED INNER FILM LINER AND FIBERGLASS SCRIM, FIBERGLASS BLANKET INSULATION AND POLYETHYLENE OUTER JACKET, AS MANUFACTURED BY THERMAFLEX, TYPE G-KM OR EQUAL. PROVIDE 2 IE WRAPS AT EACH CONNECTION TO STEEL DUCTWORK, DEVICES OR EQUIPMENT.
- AT.4. FLEX CONNECTION: 1" GALVANIZED STEEL EDGE WITH 2" FLEXIBLE VINYL STRIP IN MIDDLE, MINIMUM 2" PRESSURE RATED, AND MANUFACTURED BY DUCTMATE OR EQUAL.
- AT.5. PLENUMS: GALVANIZED STEEL, MINIMUM STEEL GAUGE, JOINTS AND REINFORCEMENT PER LATEST VERSION OF "SMACNA HVAC DUCT CONSTRUCTION STANDARDS".
- AT.5.1. ALL TRANSVERSE JOINTS AND DUCT WALL PENETRATIONS SEALED WITH METALLIC DUCT TAPE OR MASTIC.
- AT.5.2. FAN INLET OR DISCHARGE: PROVIDE ALL PLENUMS WITH MINIMUM 2" INTERIOR, FOIL-FACED DUCT LINER FOR NOISE REDUCTION, PROVIDE MINIMUM 12" SQ. DUCT ACCESS FOR DOOR FOR INTERNAL SERVICE AND CLEANING, AS SHOWN ON PLANS.
- AT.5.3. ROOF HOODS OR WALL LOUVERS: PROVIDE ALL PLENUMS WITH MINIMUM 1" EXTERIOR DUCT INSULATION BOARD IN MECHANICAL ROOMS, AND 1" DUCT WRAP WHERE CONCEALED. PROVIDE MINIMUM 12" SQ. DUCT ACCESS DOOR FOR INTERNAL SERVICE AND CLEANING, OR AS SHOWN ON PLANS.
- AT.6. INSULATION: SUPPLY, RETURN AND OUTSIDE AIR VENTILATION DUCTWORK INSTALLED IN UNCONDITIONED SPACES SHALL HAVE MINIMUM R-8 EXTERNAL DUCT WRAP INSULATION AFTER SEALING. SEE DUCT WRAP SPECIFICATIONS.
- AT.6.1. PROVIDE INTERNAL DUCT LINER FOR RECTANGULAR DUCTWORK OR PLENUMS INSTALLED IN EXPOSED FINISHED AREAS.
- AT.6.2. PROVIDE EXTERNAL DUCT INSULATION BOARD FOR RECTANGULAR DUCTWORK OR PLENUMS INSTALLED IN MECHANICAL SPACES. SEE DUCT INSULATION BOARD SPECIFICATIONS.
- AT.7. DUCT LINER: OWENS CORNING, SERIES 703 OR EQUAL, FIBERGLASS INSULATION FORMED INTO RIGID BOARD, BONDED TO EXTERIOR KRAFT VAPOR RETARDING FACING, MINIMUM R-8 RATING FOR INTERIOR INSTALLATIONS, AND R-8 FOR EXTERIOR INSTALLATIONS.
- AT.8. DUCT WRAP: PROVIDE DUCT WRAP ON ALL SUPPLY AND RETURN DUCTWORK INSTALLED IN CONCEALED, UNCONDITIONED SPACES. OWENS CORNING, ALL SERVICE DUCT WRAP, OR EQUAL, FIBERGLASS BLANKET, FACTORY LAMINATED TO FRK VAPOR RETARDING FACING, MINIMUM R-8 RATING FOR INTERIOR INSTALLATIONS, AND R-8 FOR EXTERIOR INSTALLATIONS.
- AT.9. DUCT INSULATION BOARD: OWENS CORNING, SERIES 701 FOR CURVED SURFACES AND SERIES 7056 FOR FLAT SURFACES, OR EQUAL, FIBERGLASS INSULATION FORMED INTO RIGID BOARD, BONDED TO FOIL-REINFORCED KRAFT VAPOR RETARDING FACING, MINIMUM R-8 RATING FOR INTERIOR INSTALLATIONS, AND R-8 FOR EXTERIOR INSTALLATIONS.
- AT.10. DUCT ACCESS DOOR: NAJOR INDUSTRIES, 085CL SERIES OR EQUAL, RATED FOR MEDIUM AND LOW PRESSURES, SMACNA CONSTRUCTIONS SPECIFICATIONS, GALVANIZED STEEL CONSTRUCTION. REMOVABLE DOOR WITH 1" INTERNAL FOIL-FACED INSULATION, KNOCK-OVER TABS PROGRESSIVE CAMLOCK OPERATION.
- AT.11. MANUAL BALANCING DAMPERS: PROVIDE MANUAL BALANCING DAMPERS WHERE SHOWN ON PLANS AND AS NEEDED FOR PROPER DISTRIBUTION OF AIRFLOWS. BALANCING DAMPERS SHALL BE SEPARATE FROM THE GRILLES AND BE INSTALLED A MINIMUM OF 5 DUCT DIAMETERS UPSTREAM OR DOWNSTREAM TO REDUCE AIR NOISE.
- AT.11.1. ROUND DAMPERS: 20 GAGE, GALVANIZED STEEL, 3/8" SQUARE AXLE SHAFT EXTENDING BEYOND FRAME THROUGH FACTORY MOUNTED LOCKING HAND QUADRANT, MOLDED SYNTHETIC BEARINGS, MILL GALVANIZED FINISH, AS MANUFACTURED BY RUSKIN, MODEL MD025 PR APPROVED EQUAL.
- AT.11.2. RECTANGULAR DAMPERS: 20 GAGE, GALVANIZED STEEL, ORT SMACNA STANDARD, WHICHEVER IS GREATER, SQUARE AXLE SHAFT EXTENDING BEYOND FRAME THROUGH FACTORY MOUNTED LOCKING HAND QUADRANT, MOLDED SYNTHETIC BEARINGS, MILL GALVANIZED FINISH, AS MANUFACTURED BY RUSKIN, MODEL MD25 OR APPROVED EQUAL.
- AT.12. MOTORIZED BACKDRAFT DAMPERS: GALVANIZED STEEL FRAME, ALUMINUM BLADES WITH SEALS, SIX LEAVES OF 4 CM EACH, DESIGNED TO DIFFERENTIATE RATED OR VOLTAGES UP TO 2500 FPM AND PRESSURES UP TO 2" WC, AS MANUFACTURED BY GREENHECK, OR EQUAL. PROVIDE WITH CLASS I DAMPER MOTOR ON ALL AIR INTAKE AND EXHAUST OPENINGS FOR HOODS AND FANS.
- AT.13. GRILLES AND DIFFUSERS: AS SCHEDULED OR EQUAL, PROVIDE WITH ALL REQUIRED FACTORY ACCESSORIES NEEDED FOR COMPLETE INSTALLATION.
- AT.13.1. WHERE REQUIRED, PROVIDE FACTORY MOUNTING FRAME FOR INSTALLATION INTO SHEETROCK CEILINGS.
- AT.13.2. FOR SPIRAL DUCT MOUNTED SIDEWALL GRILLES, PROVIDE FACTORY SCOOP FOR BALANCING.
- AT.14. WALL LOUVERS: AS SCHEDULED OR EQUAL, FIELD VERIFY FRAME SIZE AND TYPE, WITH ACTUAL WALL SECTION PRIOR TO ORDERING. PROVIDE WITH BAROMETRIC OR MOTORIZED BACKDRAFT DAMPERS AS NOTED ON PLANS.
- AT.15. ROOF HOODS: AS SCHEDULED OR EQUAL. PROVIDE WITH
- AT.16. FACTORY CURBS AND BAROMETRIC OR MOTORIZED BACKDRAFT DAMPERS AS NOTED ON PLANS.
- BA. ROOFTOP UNITS: RTU PERFORMANCE, MAKE AND MODEL NUMBERS AS SCHEDULED. MAKE MODIFICATIONS OR ADJUSTMENTS AS REQUIRED TO OPERATE EXISTING RTUs. PER CONTROL DETAILS ON PLANS AND CONTRACTOR TO ASSUME ALL LIABILITY ON EXISTING UNITS.
- BB. EXHAUST FAN: PERFORMANCE, MAKE AND MODEL NUMBER AS SCHEDULED, OR APPROVED EQUAL. PROVIDE WITH FACTORY CURB, CLASS I MOTORIZED BACKDRAFT DAMPERS, DISCONNECT SWITCH AND ECM MOTOR IF FRACTIONAL HP.
- BC. CONTROL SYSTEMS: PROVIDE A COMPLETE SYSTEM OF CONTROLS TO PROPERLY OPERATE ALL HVAC SYSTEMS SHOWN ON PLANS. PLANS SHOW ONLY THE ANTICIPATED MAJOR COMPONENTS OF CONTROL SYSTEMS AND SEQUENCE OF OPERATIONS ONLY. THEY DO NOT SHOW EVERY SINGLE COMPONENT OF THE SYSTEM OR WIRING AND INSTALLATION DETAILS. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL ITEMS AS NEEDED TO MEET THE PERFORMANCE SEQUENCES SHOWN ON PLANS.
- BC.1. CONTROL WIRING:
- BC.1.1. ALL CONTROL WIRING SHALL BE AS SPECIFIED BY CONTROL EQUIPMENT MANUFACTURER. THE NUMBER OF CONDUCTORS AND GAUGE SHALL MEET THEIR REQUIREMENTS, AS WELL AS THE METHOD OF INSTALLATION.
- BC.1.2. ALL CONTROL WIRING EXPOSED IN MECHANICAL ROOMS SHALL BE INSTALLED IN EMT CONDUIT.
- BC.1.3. WIRING INSTALLED IN CEILING PLENUMS AND INSIDE WALLS SHALL BE PLENUM RATED AND RUN EXPOSED UNLESS OTHERWISE REQUIRED BY THE LOCAL AUTHORITY.
- BC.2. THERMOSTATS: AS MANUFACTURED BY HONEYWELL OR EQUAL, DESIGNED TO OPERATE THE TYPE OF COOLING OR HEATING UNIT TO BE CONNECTED, WITH NUMBER OF COOLING AND HEATING STAGES EQUAL TO THOSE OF THE UNIT SERVED. ALL THERMOSTATS SHALL INCLUDE CAPABILITIES AS REQUIRED BY STATED IECC, INCLUDING 7-DAY SCHEDULED TEMPERATURE SETBACK WITH OPTIMAL START AND MANUAL OVERRIDE OF UP TO 2 HRS.
- BC.2.1. MULTI-STAGE UNITS: PROVIDE SEPARATE CONTROL WIRE FOR EACH STAGE OF HEAT AND COOLING FOR ALL MULTI-STAGE UNITS. DO NOT JUMPER WIRE STAGES TOGETHER TO MAKE THEM RUN SIMULTANEOUSLY.
- BC.2.2. REMOTE SENSORS: WHERE SHOWN ON PLANS PROVIDE A REMOTE TEMPERATURE SENSOR COMPATIBLE WITH THERMOSTAT CONTROLLING UNIT. CONNECT TO THERMOSTAT PER MANUFACTURER'S INSTRUCTIONS. ADJUST THERMOSTAT PER MANUFACTURER'S INSTRUCTIONS TO UTILIZE REMOTE SENSOR FOR UNIT CONTROL AFTER INSTALLATION.
- BD. INTERLOCKS:
- BD.1. BACKDRAFT DAMPERS: FOR ALL BACKDRAFT DAMPERS SERVING EXHAUST AND OUTSIDE AIR OPENING ON THE PLANS, INTERLOCK CLASS I MOTORIZED DAMPERS TO CLOSE WHEN SYSTEMS ARE NOT IN OPERATION.
- BD.2. EXHAUST FANS: INTERLOCK EXHAUST FANS TO OPERATE SIMULTANEOUSLY WITH HVAC UNITS AS NOTED ON PLANS, USING AUXILIARY CONTACTS OR RELAYS IN UNIT STARTERS. PROVIDE ALL REQUIRED CONDUIT, WIRING AND CONTROL COMPONENTS NEEDED TO PROVIDE THE AUTOMATIC SIMULTANEOUS OPERATION.
- BD.3. TESTING OF THE INTERLOCKS SHALL BE A PART OF THE STARTUP PROCESS FOR HVAC EQUIPMENT AND SHALL BE DOCUMENTED ON STARTUP SHEETS, PROVIDED TO THE PM.
- BE. SMOKE DETECTORS:
- BE.1. PROVIDE A RETURN DUCT MOUNTED SMOKE DETECTOR FOR ALL HVAC UNITS WITH GREATER THAN 2,000 CFM OF AIRFLOW. PROVIDE ONE SMOKE DETECTOR FOR EACH HVA UNIT WITH GREATER THAN 150 CFM OF AIRFLOW. HAVE SMOKE DETECTOR INSTALLED IN SUPPLY DUCTWORK AS SPECIFIED IN NFPA 90A. DETECTORS SHALL BE WIRED TO SHUT DOWN THE UNIT UPON ACTIVATION, AND INITIATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL.

- BE.2. WHERE AN APPROVED FIRE ALARM SYSTEM IS INSTALLED IN THE BUILDING, THE DUCT SMOKE DUCTWORK AS SPECIFIED IN NFPA 90A. DETECTORS SHALL BE WIRED TO SHUT DOWN THE UNIT UPON ACTIVATION, AND INITIATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL.
- BE.3. WHERE AN APPROVED FIRE ALARM SYSTEM IS INSTALLED IN THE BUILDING, THE DUCT SMOKE DETECTORS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM AND INITIATE EITHER AN ALARM SIGNAL AT THE PROTECTED PREMISES, A SUPERVISORY SIGNAL AT A CONSTANTLY ATTENDED LOCATION, OR BE MONITORED BY A SUPERVISING STATION.
- BF. HVAC DRAWINGS:
- BF.1. THESE DRAWINGS ARE INTENDED TO GENERALLY SHOW THE EXISTING BUILDING AND HVAC SYSTEMS MODIFICATIONS REQUIRED FOR THIS PROJECT. INFORMATION PROVIDED INCLUDES LOCATION, QUANTITY, TYPE, SIZE, CAPACITY AND FUNCTION OF SPECIFIC COMPONENTS OF THE NEW AND MODIFIED HVAC SYSTEMS TO BE PROVIDED BY THE CONTRACTOR.
- BF.2. SEE DIFFUSER AND GRILLE SCHEDULE FOR ALL BRANCH DUCT SIZES NOT SHOWN ON PLAN FOR CLARITY, ALL BRANCH DUCTS AND CONNECTING FLEX DUCTS SHALL EQUAL DIFFUSER OR GRILLE COLLAR SIZE AS SCHEDULE.
- BF.3. ADJUST DUCT SIZES SHOWN ON PLANS AS NEEDED FOR OFFSETS AND INTERFERENCES IDENTIFIED IN THE FIELD AND OR CREATED BY OTHER TRADES. MAINTAIN DUCT CROSS SECTIONAL AREA THROUGH OFFSETS, ELBOWS AND TRANSITIONS.
- BF.4. INCIDENTAL MODIFICATION OR DEMOLITION OF EXISTING HVAC SYSTEMS AND COMPONENTS AS REQUIRED FOR INSTALLATION OF NEW WORK IS INCLUDED AS PART OF THE PROJECT, WHETHER SHOWN ON PLANS OR NOT. CONTRACTOR SHALL FIELD VERIFY ALL REQUIREMENTS PRIOR TO BIDDING PROJECT.
- BF.5. CEILING TILE AND GRID REMOVAL, MODIFICATION AND REINSTALLATION AS REQUIRED FOR WORK SHOWN IS TO BE PROVIDED BY OTHERS AND IS NOT CONSIDERED PART OF THE HVAC CONTRACTOR'S SCOPE OF WORK. COORDINATE WITH OWNER TO PROVIDE THE REQUIRED WORK ACCESS ABOVE ALL LAY-IN CEILINGS.
- BF.6. RELOCATION OF EXISTING BUILDING SYSTEMS AND EQUIPMENT SUCH AS LIGHT FIXTURES, FIRE EXTINGUISHERS, ELECTRIC PANELS, SMOKE DETECTORS, ELECTRICAL CONDUITS, PLUMBING, ETC. AS REQUIRED FOR INSTALLATION OF NEW WORK IS TO BE PROVIDED BY OTHERS AND IS NOT CONSIDERED PART OF THE HVAC CONTRACTOR'S SCOPE OF WORK. COORDINATE WITH OWNER TO PROVIDE THE REQUIRED INTERFERENCE REMOVAL OF OTHER TRADES.
- BG.7. THE EXISTING BUILDING HVAC SYSTEMS ARE INTENDED TO BE REUSED AS SHOWN ON PLANS OR AS INSTALLED IF NOT SHOWN ON PLANS. ALL EXISTING HVAC SYSTEMS AND PERFORMANCE DATA SHOWN ON PLANS IS FOR REFERENCE ONLY AND MAY BE DIFFERENT IN THE FIELD. CONTRACTOR SHALL FIELD SURVEY, TEST AND INSPECT ALL EXISTING HVAC SYSTEMS PRIOR TO BUILDING TO ENSURE HE UNDERSTANDS AND ACCEPTS ALL EXISTING CONDITIONS.
- BG.8. THE EXISTING HVAC SYSTEMS AIRFLOWS SHOWN ON PLANS ARE FOR REFERENCE ONLY TO ASSIST WITH COMFORT BALANCING TO BE PROVIDED BY THE HVAC CONTRACTOR AND SPECIFIED BY THE OWNER.
- BH. CUTTING AND PATCHING:
- BH.1. WHERE CUTTING AND PATCHING ARE REQUIRED TO INSTALL HVAC SYSTEMS, CONTRACTOR SHALL PROVIDE WORK AS NEEDED. AFTER INSTALLATION, PATCH ALL OPENING TO MATCH ADJUSTMENT FINISHED SURFACES. FINISHED PAINTING TO BE PROVIDED BY OTHERS.
- BI. DUCTWORK, PIPING AND SUPPORTS:
- BI.1. LOCATE ALL BALANCING DAMPERS IN ACCESSIBLE LOCATIONS, WHERE INSTALLED ABOVE SHEETROCK CEILING, COORDINATE WITH OTHER TRADES TO PROVIDE ACCESS HATCH FOR BALANCING.
- BI.2. HOLD ALL DUCTWORK AND PIPING TIGHT AGAINST STRUCTURES, RUN IN A NEAT AND WORKMAN LIKE MANNER PARALLEL TO BUILDING LINES WHERE POSSIBLE. PROVIDE ALL REQUIRED DUCT AND PIPE HANGERS AND SUPPORTS WITH PROPER SPACING PER CODE REQUIREMENTS.
- BI.3. GROUP PARALLEL RUNS OF DUCTWORK AND PIPING TOGETHER ON COMMON HANGERS AND SUPPORTS TO MINIMIZE SPACE WHEREVER POSSIBLE.
- BI.4. ALL SUPPLY AND RETURN DUCTWORK CONCEALED ABOVE CEILINGS SHALL BE INSULATED AFTER INSTALLATION AND SEALING. SEE SPECS FOR INSULATION REQUIREMENTS.

**DESIGN WITHOUT CONSTRUCTION ADMINISTRATION:**

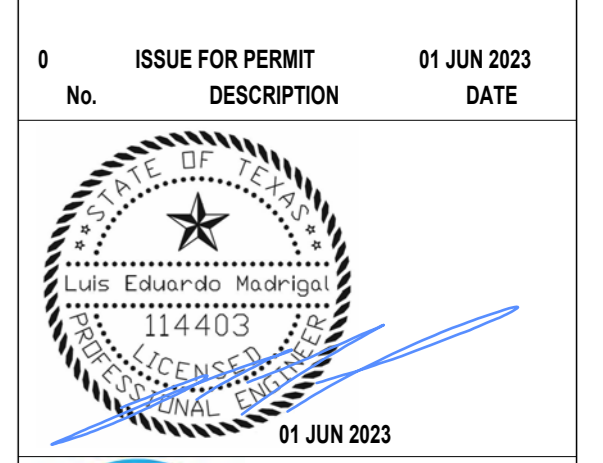
IT IS UNDERSTOOD AND AGREED THAT THE ARCHITECT/ENGINEER'S SCOPE DOES NOT INCLUDE PROJECT OBSERVATION OR REVIEW OF THE CONTRACTOR'S PERFORMANCE OR ANY OTHER CONSTRUCTION PHASE SERVICES. THE OWNER AGREES TO PROVIDE CONSTRUCTION ADMINISTRATION AND ASSUMES ANY AND ALL POTENTIAL LIABILITY ARISING FROM SUCH ADMINISTRATION. THE OWNER ASSUMES ALL RESPONSIBILITY FOR INTERPRETATION OF THE CONTRACT DOCUMENTS AND FOR CONSTRUCTION OBSERVATION AND THE OWNERS WAIVES ANY CLAIMS AGAINST THE ARCHITECT/ENGINEER THAT MAY BE IN ANY WAY CONNECTED THERETO. THE ARCHITECT/ENGINEER WILL NOT RESPOND TO ANY QUESTIONS DIRECTED TO THE INTERPRETATION OF THE CONTRACT DOCUMENTS OR IN RESPONSE TO ISSUES ENCOUNTERED BY AND AS RELAYED BY THE CONTRACTOR IN THE FIELD.

**SYMBOL LEGEND - MECHANICAL:**

	RTU (ROOF TOP UNIT).		EXHAUST FAN.
	CU (COMPRESSOR UNIT).		CFM's.
	COMPRESSOR.		ROUND BRANCH DUCT W/ BALANCING DAMPER
	PTAC.		DUCT/INTERNAL DIMENSIONS (WIDTH/DEPTH).
	AHU (AIR HANDLING UNIT).		RECTANGULAR DUCT TRANSITION.
	2x2' SUPPLY AIR DIFFUSER.		ROUND FLEX DUCT.
	1x1' SUPPLY DIFFUSER.		LIQUID LEVEL SENSOR.
	12x6' SUPPLY DIFFUSER.		SMOKE DETECTOR.
	2x2' RETURN/TRANSFER AIR DEVICE.		TEMPERATURE SENSOR.

**ABBREVIATIONS:**

AFF	- ABOVE FINISHED FLOOR	KW	- KILOWATT
AHJ	- AUTHORITY HAVING JURISDICTION	L	- LOUVER
ARCH	- ARCHITECTURAL	LAT	- LEAVING AIR TEMPERATURE
BAL	- BALANCE	LBS	- POUNDS
BTU	- BRITISH THERMAL UNIT	LVG	- LEAVING
CA	- COMMISSIONING AGENT	MAU	- MAKEUP AIR HOUR
CAP	- CAPACITY	MBH	- 1000 BTU PER HOUR
CFM	- CUBIC FEET PER MINUTE	MCA	- MINIMUM CIRCUIT AMPACITY
CLG	- COOLING	MFG	- MANUFACTURER
CO	- COMPANY	MIN	- MINIMUM
DE	- DRY BULB	NOCP	- MAXIMUM OVERCURRENT
NC	- DIAMETER	NO	- NOISE CRITERIA
DMPR	- DAMPER	NO	- NUMBER
DN	- DOWN	OA	- OUTSIDE AIR
DX	- DIRECT EXPANSION	OCPD	- OVERCURRENT PROTECTION DEVICE
EA	- ENTERING AIR	PD	- PRESSURE DROP
EA	- ENTERING AIR TEMPERATURE	PH	- PHASE
EE	- ENERGY EFFICIENCY RATIO	PLCS	- PLACES
EF	- EXHAUST FAN	PM	- PROJECT MANAGER
ELECT	- ELECTRICAL	PSIG	- POUNDS PER SQUARE INCH
ENGR	- ENGINEER OR ENGINEERING	RA	- RETURN AIR
EN	- ENTERING	SA	- SUPPLY AIR
EXH	- EXHAUST	SEER	- SEASONAL ENERGY EFFICIENCY RATIO
EXT	- EXTERNAL	SENS	- SENSIBLE
F	- DEGREES FAHRENHEIT	SP	- STATIC PRESSURE
FT	- FEET	SOFT	- SQUARE FEET
HP	- HORSEPOWER	T	- TEMPERATURE
HTG	- HEATING	TOT	- TOTAL
HVAC	- HEATING, VENTILATION AND AIR	TP	- TYPICAL
Hz	- HERTZ	VEL	- VELOCITY
IECC	- INT'L ENERGY CONSERVATION CODE	WB	- WET BULB TEMPERATURE
IN	- INCHES	WG	- WATER GAUGE
IMC	- INTERNATIONAL MECHANICAL CODE		



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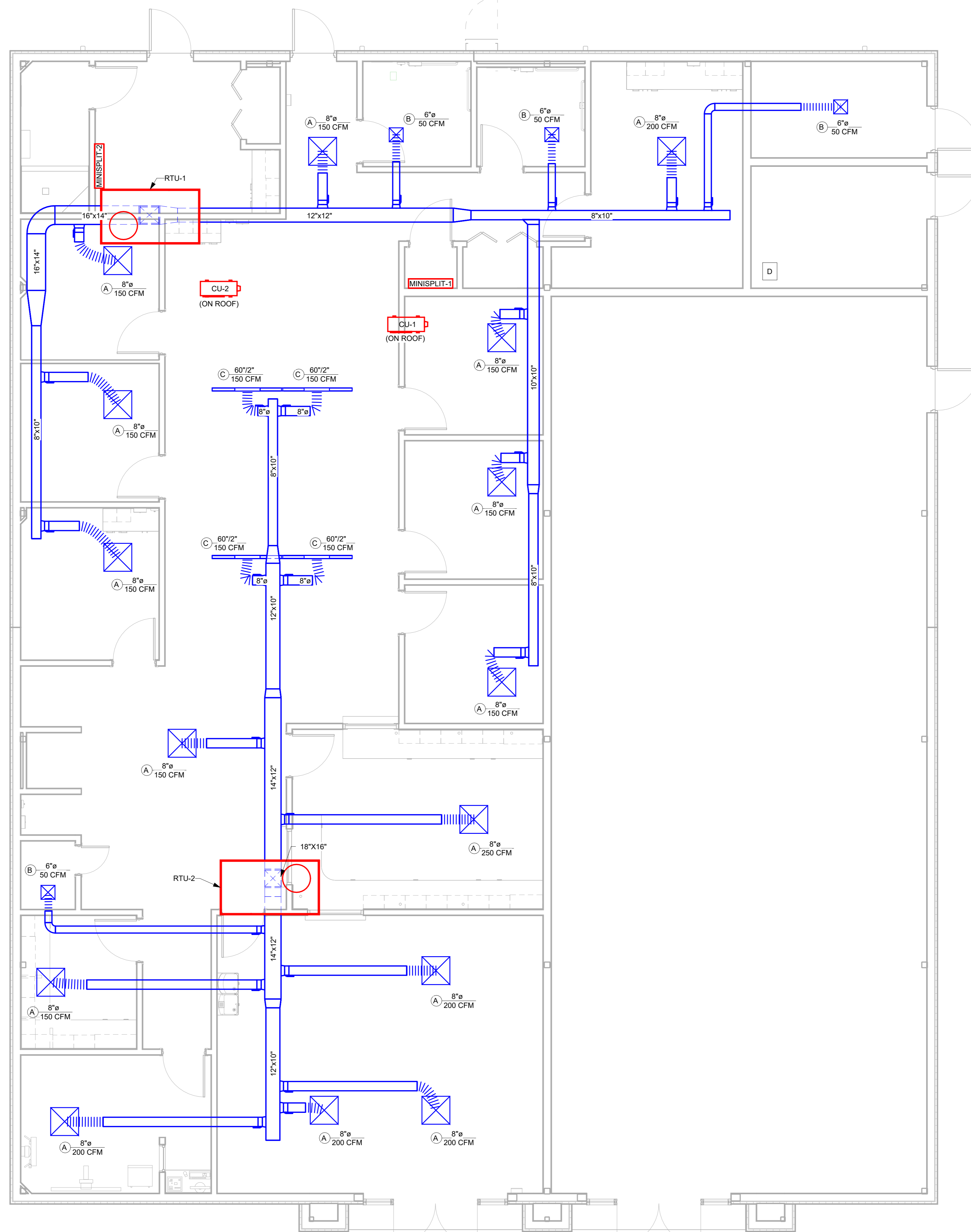
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**General Notes - Mech**



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**GENERAL NOTES:**

- A. HVAC UNIT FAN SHALL BE PLACED IN "AUTO" RUN POSITION, NOT "CONTINUOUS RUN" POSITION.
- B. THERMOSTAT SHALL NOT BE SET BELOW 72 deg. F FOR COOLING.
- C. SYSTEM SHALL NOT BE OPERATED UNTIL BUILDING INTERIOR IS "FINISHED OUT". FIRST WEEK OF OPERATION, TEMPERATURE SHALL NOT BE SET BELOW 78 deg. F, SECOND WEEK: 76 deg. F, THIRD WEEK: 74 deg. F. BUILDING MUST BE SLOWLY BROUGHT TO OPERATING TEMPERATURE TO PREVENT THE FORMATION OF MOISTURE ON THE WALLS, CEILING, ETC.
- D. CONTRACTOR SHALL PROVIDE A UNIT HEATER WITHIN THE RISER ROOM. THE UNIT HEATER WIRING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. UNIT HEATER SHALL PROVIDE SUFFICIENT HEAT TO PREVENT FIRE SPRINKLER SYSTEM FROM FREEZING.

1 SUPPLY PLAN  
1/4" = 1'-0"

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01 JUN 2023

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**KHIT**  
**CHIROPRACTIC**  
**WELLNESS**

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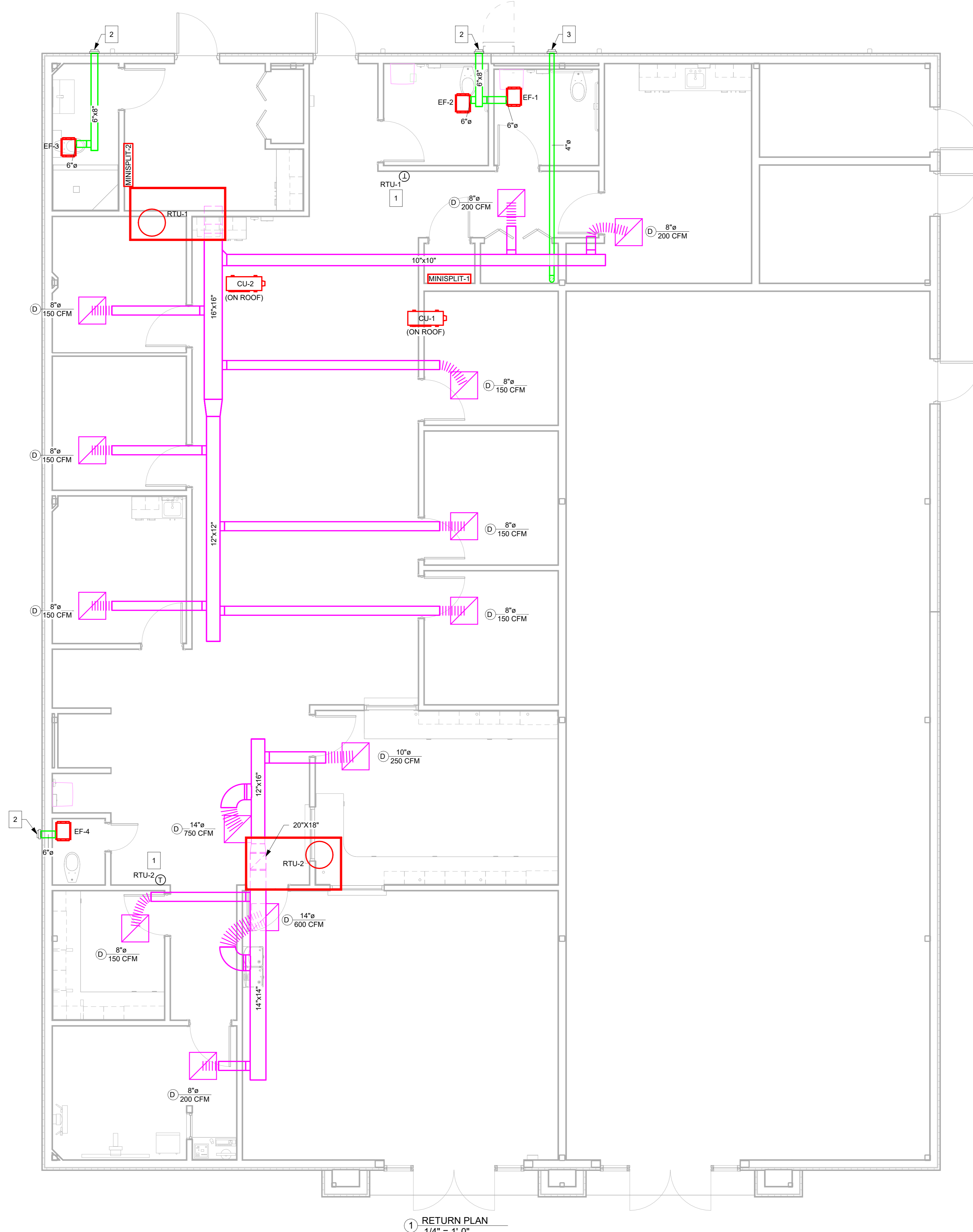
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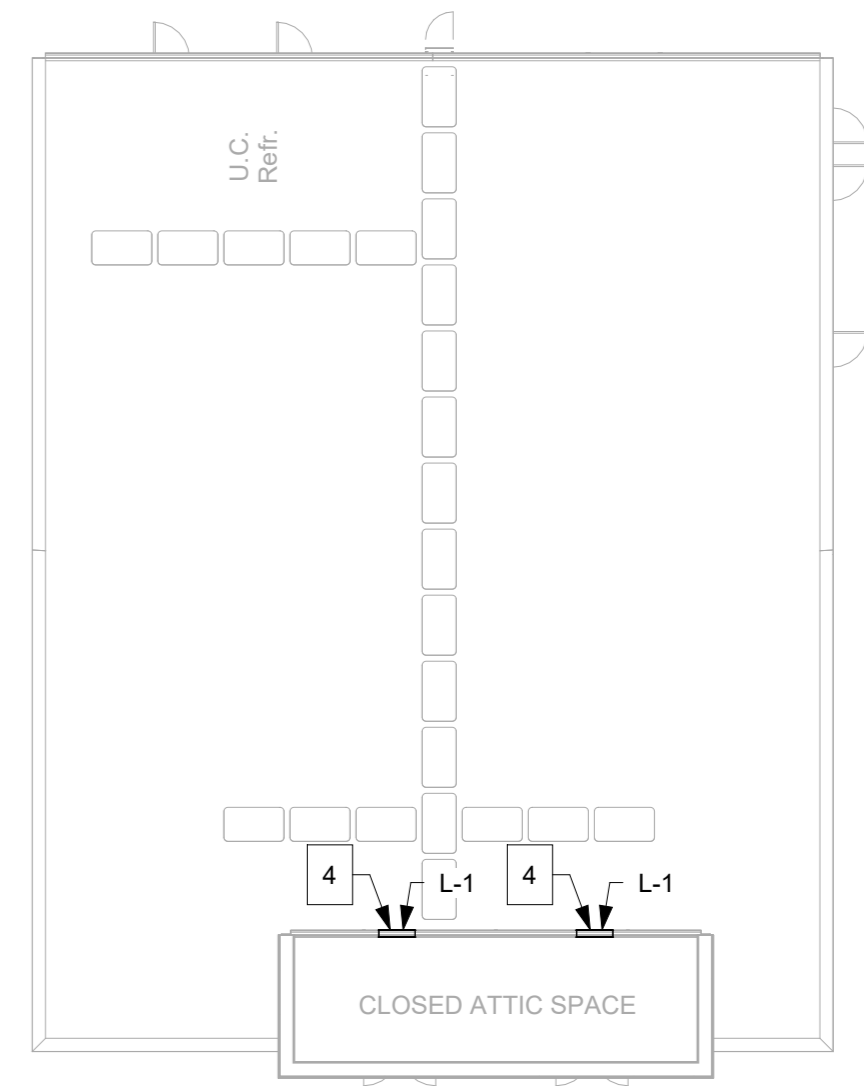
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① RETURN PLAN  
1/4" = 1'-0"



② ROOF PLAN  
1/16" = 1'-0"

**KEYED NOTES:**

- CONTROLS FOR A/C UNIT WILL BE BY MEANS OF A 24 VOLT 7-DAY PROGRAMMABLE THERMOSTAT WITH HEAT-OFF-COOL AND FAN ON-AUTO CAPABILITIES SHOWN ON A DIGITAL DISPLAY. MOUNT THERMOSTAT AT 48" ABOVE FINISHED FLOOR. PROVIDE WITH KEYS CLEAR PLASTIC COVER.
- WEATHERPROOF METAL WALL CAP FOR EXHAUST SYSTEM. MECHANICAL CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION.
- PROVIDE EXTERIOR DRYER WALL VENT METAL COVER. MECHANICAL CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION PRIOR TO ANY WORK.
- WEATHERPROOF METAL LOUVER IN WALL FOR MAKE UP AIR SYSTEM. MECHANICAL CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION.

**NATURAL VENTILATION CALCULATIONS:**

"CLOSED ATTIC SPACE":  
 -Required area for natural ventilation:  
 Area= 358sf x 0.04= 14.4 SF  
 -Proposed area:  
 Louver 1: 3'x3'= 9 SF  
 Louver 2: 3'x3'= 9 SF  
 Total= 18 SF

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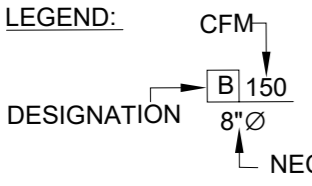
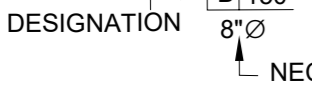
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PACKAGED DX ROOFTOP UNIT SCHEDULE																													
MARK	MANUF.	MODEL	BASIS OF DESIGN						SUPPLY FAN					DX COIL				ELECTRIC HEAT				VENTILATION AND FILTER				POWER			
			LXWXH	WEIGHT	SOUND	AMBIENT	IEER /	EER	FAN		MOTOR		TOTAL	SENSIBLE	EAT	LAT	MIN	EAT(F)	LAT(F)	HEAT	STAGES	OUTSIDE	FILTER	DEPTH	EFF.	VOLTAGE	MCA	MOCF	
			(IN)	(LB)	(DB)	TEMP.	(SEER)		TYPE	DRIVE	AIRFLOW	E.S.P.	POWER	CAPACITY	CAPACITY	DB/WB	DB/WB	COOLING	DB	DB	(KW)		AIRFLOW	TYPE	(IN)	(%)			
RTU-1 (4 TON)	LENNOX	KC8048	84X47X37	591	75	98	(14)	11.5	ODP	BELT	1400	0.8	1	45,567	33,635	78/65	55.3/53.8	1	67	92.4	15.0	1	200	MERV 4	2	30	208/3/60	45	45
RTU-2 (6 TON)	LENNOX	KC8074	84X47X44	697	79	98	(14)	11.2	ODP	BELT	2100	0.8	1	66,942	52,498	78/65	54.4/54	1	67	92.4	22.5	1	300	MERV 4	2	30	208/3/60	65	70

MINISPLIT SCHEDULE		
INDOOR UNIT MARK	MINISPLIT 1	MINISPLIT 2
INDOOR UNIT TON	3/4 TON	1.5 TON
MAX SUPPLY CFM	417	713
MINIMUM O/A (CFM)	N/A	N/A
ENTERING AIR (DB/WB)	80/67	80/67
TOTAL COOLING CAP. (BTUH)	9000	18000
SENSIBLE COOLING CAP. (BTUH)	8170	14480
HEATING CAPACITY (BTUH)	10000	21600
VOLTAGE/PHASE	208-230/1	208-230/1
MCA	N/A	N/A
MAX. FUSE SIZE	N/A	N/A
MANUFACTURER	DAIKIN	DAIKIN
MODEL NO.	FTX09NMVJU	FTX18NMVJU
WEIGHT (LBS)	18	27
CONDENSING UNIT MARK	CU-1	CU-2
VOLTAGE/PHASE	208-230/1	208-230/1
MCA	12.1	18.3
MAX. FUSE SIZE (AMPS)	15	20
AMB. AIR TEMP. (CLG°F/HTG°F)	95/47	95/47
REFRIGERANT	R-410A	R-410A
COOLING AMBIENT RANGE (STD)	-4°F - 115°F	-4°F - 115°F
HEATING MODE OPER. RANGE	5°F - 64°F	5°F - 65°F
MANUFACTURER	DAIKIN	DAIKIN
MODEL NO.	RX09NMVJU	RX18NMVJU
WEIGHT (LBS)	55	97
SEER	19	18
HTG EFF. (HSPF)	9	9
MAX EQUIV. LINE LENGTH (FT)	65	98
MAX VERTICAL RISE (FT)	49	65

AIR DEVICE SCHEDULE										
DESIGNATION	SIZE	MOUNTING	THROW	NECK TYPE	CONSTRUCTION	OBD	MAX NC	FINISH	MANUFACTURER	MODEL
A	24" X 24"	RECESSED	4-WAY	ROUND	ALUMINUM	YES	30	#26 WHITE	TITUS	TMS
B	12" X 12"	RECESSED	4-WAY	ROUND	ALUMINUM	YES	30	#26 WHITE	TITUS	TMS
C	60" X 2"	RECESSED	1-WAY	ROUND	ALUMINUM	YES	30	#26 WHITE	TITUS	FT-20
D	24" X 24"	RECESSED	RETURN	ROUND	ALUMINUM	YES	30	#26 WHITE	TITUS	50F

LEGEND:  DESIGNATION  NECK SIZE

NOTES:

- SIZE SHALL INCLUDE MODULE WITH FULL FACE.
- COORDINATE AIR DEVICE TYPE WITH ARCHITECTURAL CEILINGS.
- NECK SIZE PER NECK / BRANCH DUCT SIZE CHART.

EXHAUST FAN SCHEDULE	
DESIGNATION	EF-1, 2, 3, 4
EXHAUST CFM	70
MOTOR HP.	50 WATTS
FAN RPM	900
MOUNTING LOCATION	CEILING
VOLTAGE/PHASE	120V/1-PHASE
MANUFACTURER	CAPTIVE AIRE
MODEL	CFA-D70-CA
REMARKS	ALL

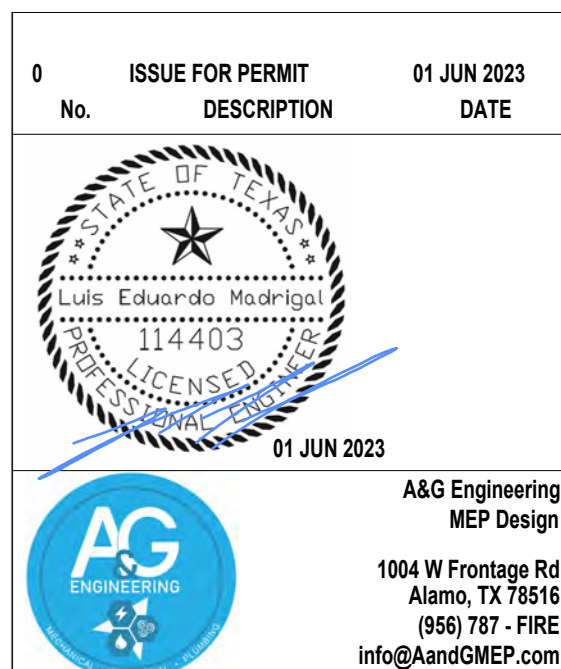
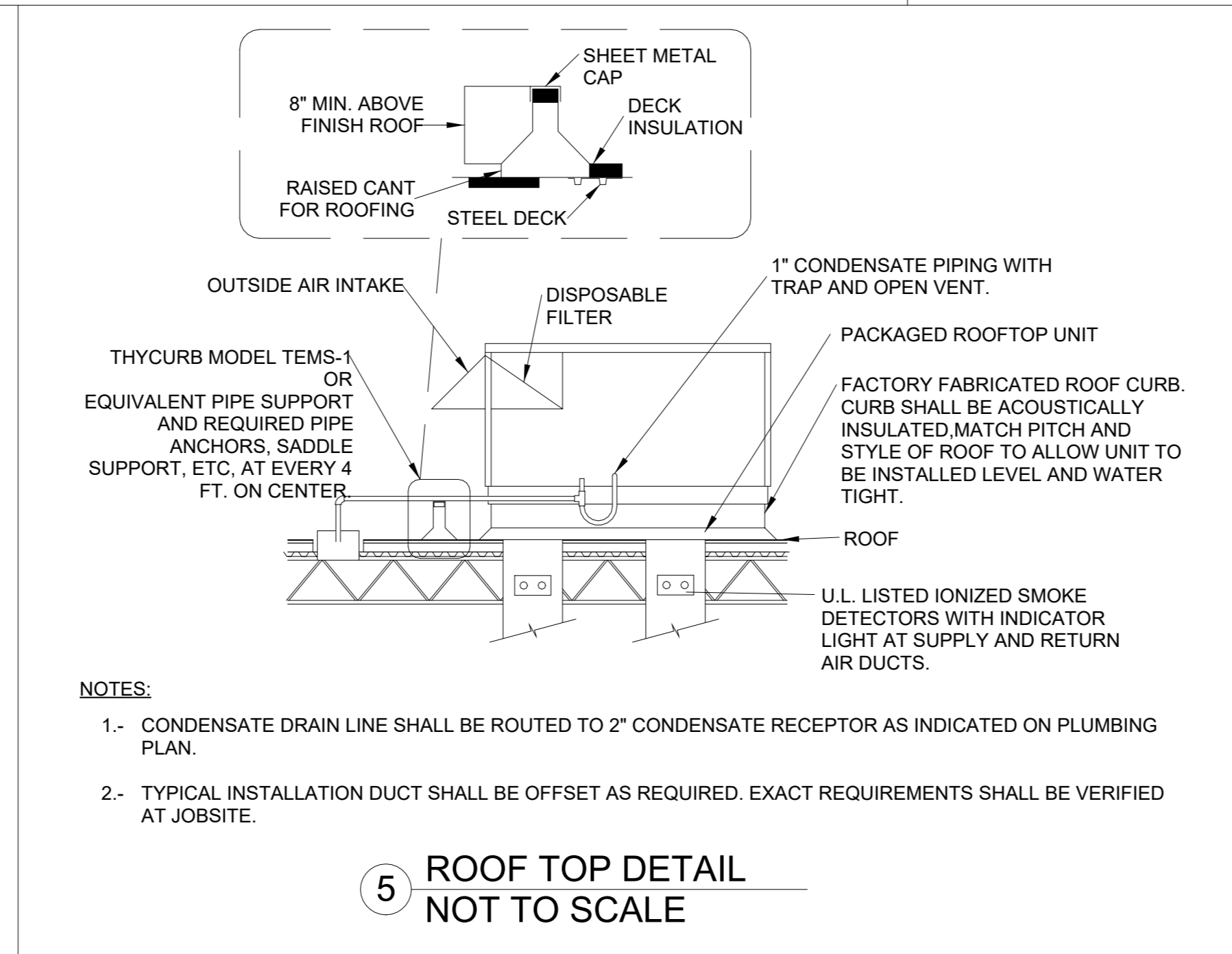
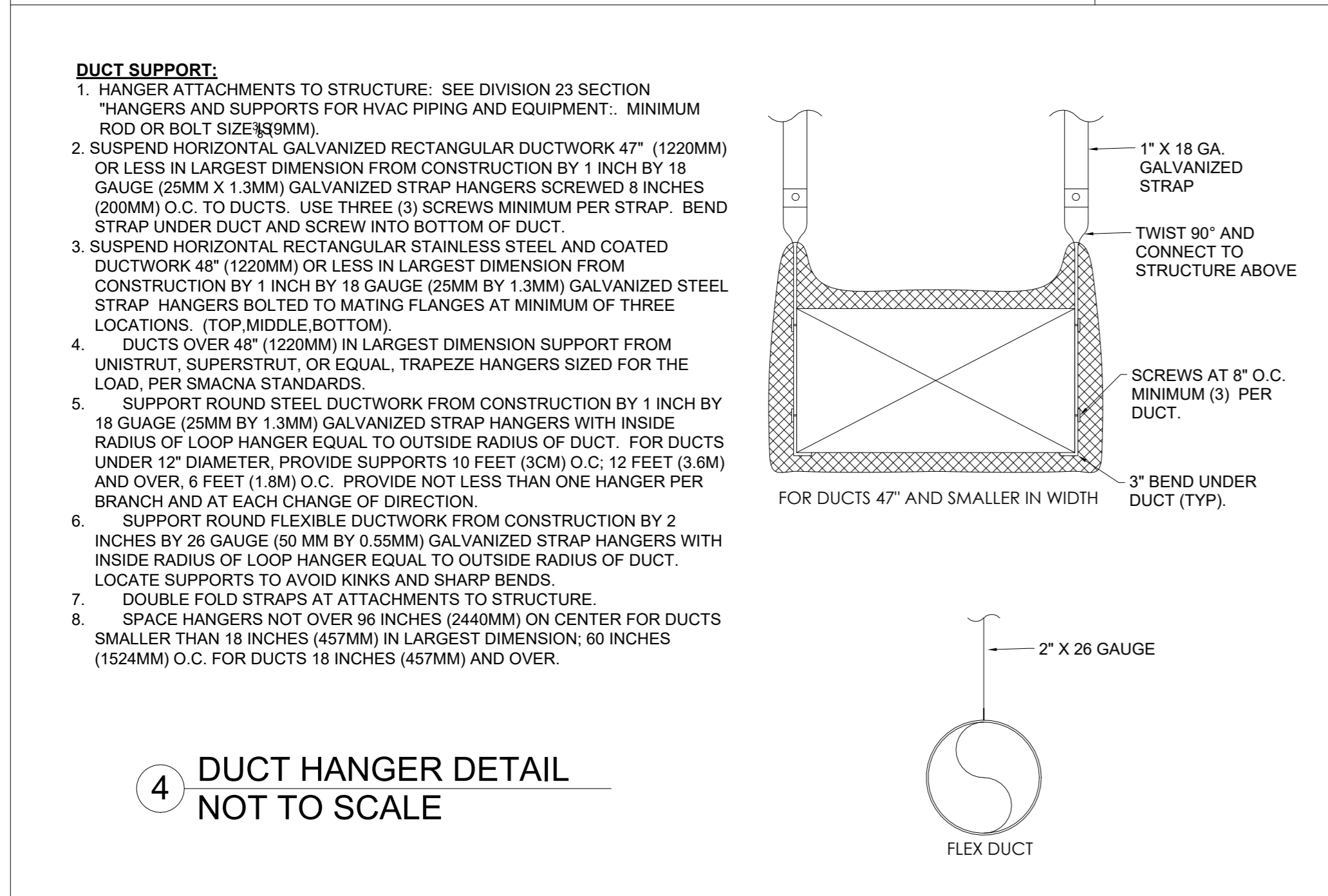
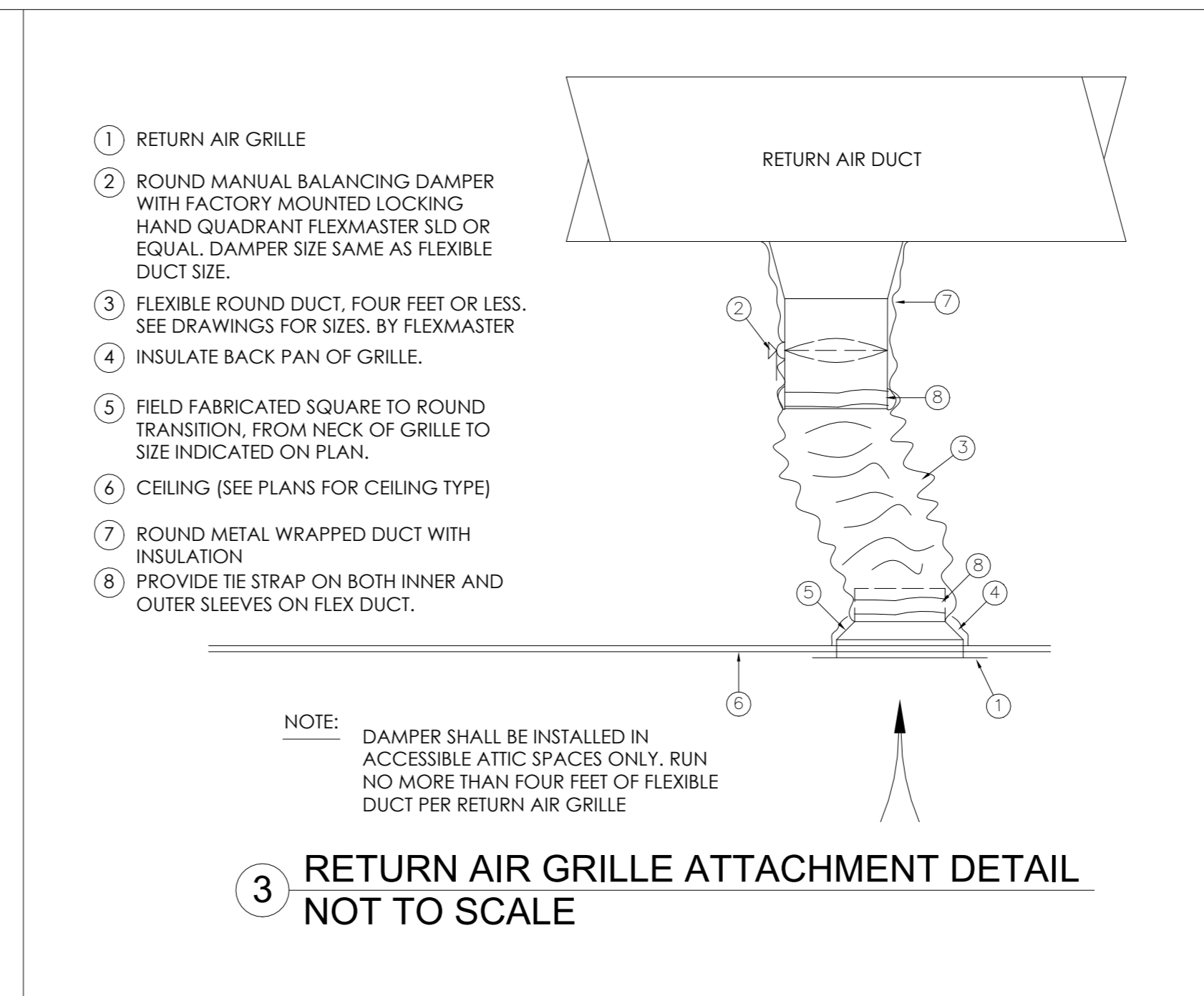
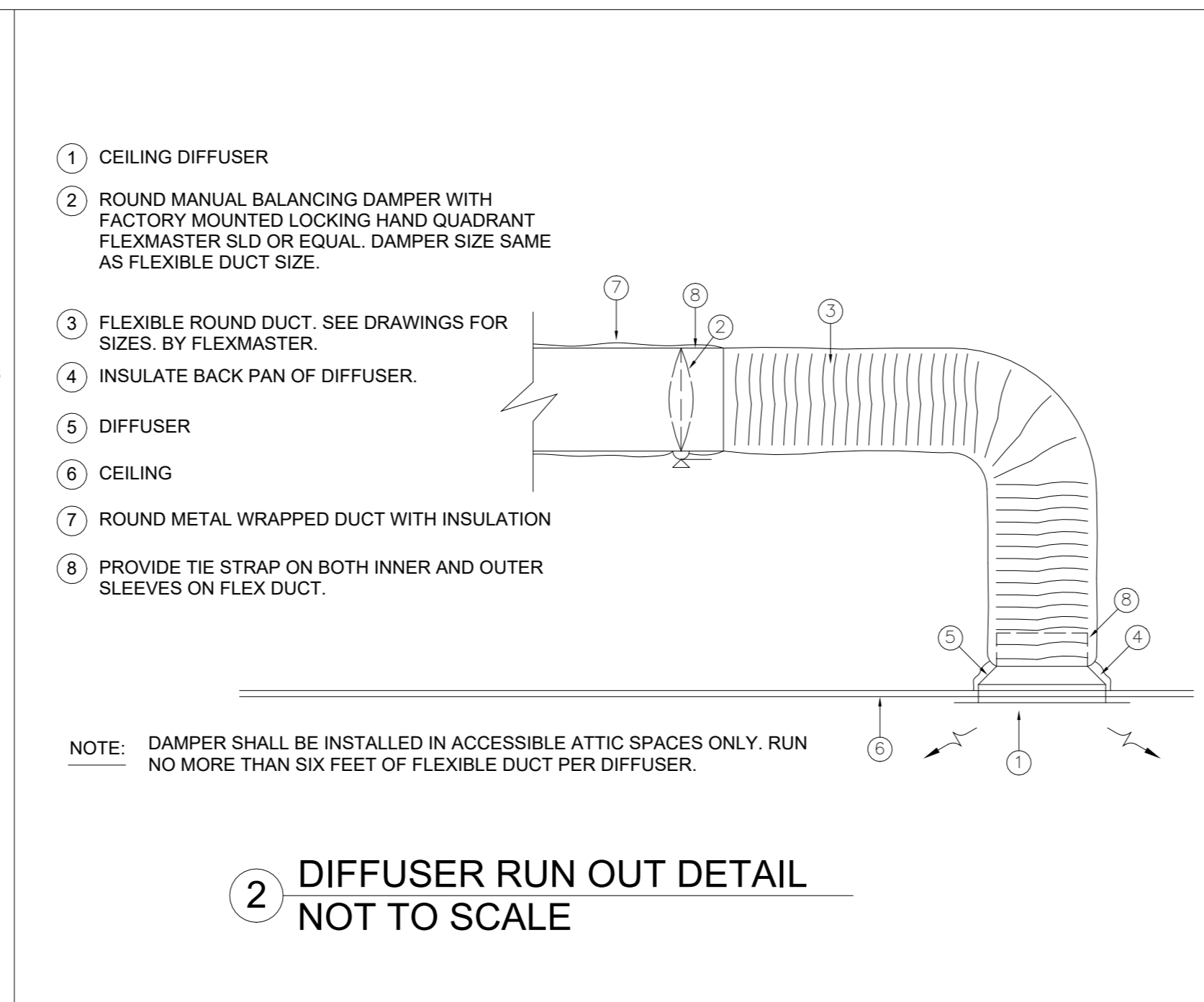
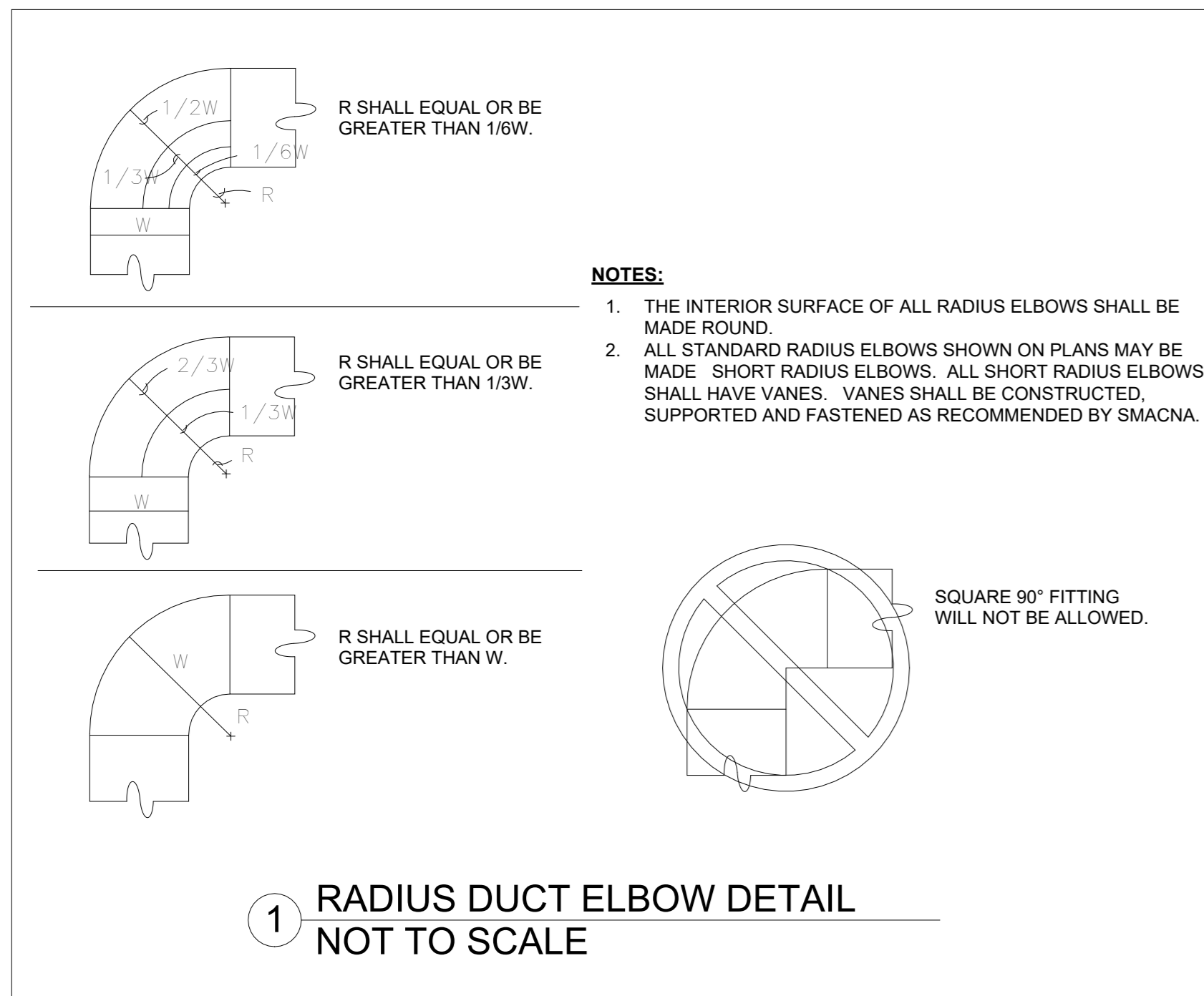
REMARKS:

- PROVIDE TIME DELAYED SHUTOFF.
- PROVIDE WITH FAN SPEED CONTROLLER.
- PROVIDE WITH BACK DRAFT DAMPER.
- INTERLOCK WITH LIGHTS.

LOUVER SCHEDULE	
MARK	L-1
MAKEUP AIR AREA	9 SF
MOUNTING LOCATION	WALL
WIDTH	3 FEET
HEIGHT	3 FEET
FREE AREA (%)	0.47
AIR VELOCITY (FT/MIN)	439
LOUVER PD (IN. WC.)	0.11

REMARKS:

- FULLY PROTECTED GALVANIZED BIRD SCREEN.
- CONTINUOUSLY SLOT DRAINAGE SYSTEM.
- 26 GAUGE SHEET METAL.



**KHIT**  
CHIROPRACTIC  
WELLNESS

6151 E. POST RD.  
KYLE TX, 78640

22 02 10 01 JUN 2023  
Schedules/Details -  
Mech

M 3.0



**GENERAL NOTES - PLUMBING**

- A. PLUMBING CONDITIONS FOR PLUMBING WORK:
- A.1. ALL WORK UNDER THIS CONTRACT SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODES. WHERE THESE PLANS AND SPECIFICATIONS ARE IN CONFLICT WITH SUCH CODES, THE CODES SHALL GOVERN. BIDS SUBMITTED BY CONTRACTOR SHALL INCLUDE WORK REQUIRED TO COMPLY WITH ALL SUCH CODES. ANY ITEMS REQUIRED AND/OR MISSED IN THESE BASIS OF DESIGN DOCUMENT SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR AT CONTRACTOR'S EXPENSE AND ZERO EXPENSE TO THE OWNER AND/OR DESIGN TEAM. CONTRACTOR SHALL PAY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES OF INSPECTION. CONTRACTOR SHALL STUDY CONTACT DOCUMENTS, FULLY UNDERSTAND AND ACCEPT THE BASIS OF DESIGN AND SCOPE OF WORK. SUBMISSION OF BID INDICATES CONTRACTOR'S COMPLETE APPROVAL AND ACCEPTANCE OF CONSTRUCTION DOCUMENTS.
- A.3. CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SKILLED WORKMEN, TRAINED LICENSED AND EXPERIENCED IN COMMERCIAL PLUMBING, AND WHO ARE FAMILIAR WITH THE CONSTRUCTION DOCUMENTS AND METHODS OF PERFORMING THE WORK REQUIRED.
- A.4. CONTRACTOR SHALL PROVIDE A MINIMUM ONE (1) YEAR WARRANTY ON ALL LABOR AND MATERIALS INSTALLED. CONTRACTOR SHALL MAKE ALL WARRANTIED REPAIRS OR REPLACEMENT WITHIN SEVEN (7) CALENDAR DAYS, AT NO ADDITIONAL COST TO THE OWNER.
- B. BASIS OF DESIGN:
- B.1. ALL CONSTRUCTION DOCUMENTS PROVIDED BY OWNER, INCLUDING ENGINEERING DRAWINGS, NOTES, SCHEDULE, DETAILS, CALCULATIONS AND SPECIFICATIONS PROVIDED, ALONG WITH EQUIPMENT MANUFACTURER'S DRAWINGS AND SPECIFICATIONS, FROM THE BASIS OF DESIGN AND GENERALLY SCHEMATIC IN NATURE, PIPING, FIXTURES AND EQUIPMENT SHOWN ON DRAWINGS IS UNDERSTOOD TO BE THE GENERAL ARRANGEMENT ONLY, TO BE FIELD ADJUSTED AS REQUIRED.
- B.2. DRAWINGS DO NOT SHOW EVERY DETAIL OR ITEM REQUIRED FOR FIXTURE AND EQUIPMENT INSTALLATIONS. REFER TO ALL EQUIPMENT MANUFACTURER'S INSTRUCTIONS FOR ADDITIONAL REQUIRED PARTS AND ACCESSORIES NEEDED FOR COMPLETE INSTALLATIONS.
- B.3. INVERT ELEVATIONS (IE) OF SANITARY DRAIN PIPING, SHOWN ON PLANS, IS ESTIMATED MINIMUM DEPTH BELOW FINISHED FLOOR ONLY, COORDINATE W/CIVIL FOR ADDITIONAL INFORMATION NOT SHOWN. THESE DRAWINGS ARE INTENDED TO GENERALLY SHOW THE EXISTING BUILDING AND PLUMBING SYSTEMS MODIFICATION REQUIRED FOR THIS PROJECT. INFORMATION PROVIDED INCLUDES LOCATION, QUANTITY, TYPE, SIZE, CAPACITY AND FUNCTION OF SPECIFIC COMPONENTS OF THE NEW/MODIFIED PLUMBING SYSTEMS TO BE PROVIDED BY CONTRACTOR.
- B.5. FOR CLARITY, SEE PLUMBING FIXTURE AND DRAIN SCHEDULES FOR ALL PIPING CONNECTIONS SIZES NOT SHOWN ON PLANS.
- B.6. INCIDENTAL MODIFICATIONS FOR DEMOLITION OF EXISTING PLUMBING SYSTEMS AND COMPONENTS AS REQUIRED FOR INSTALLATION OF NEW WORK IS INCLUDED AS PART OF THE PROJECT. WEATHER SHOWN ON PLANS OR NOT, CONTRACTOR SHALL FIELD VERIFY ALL REQUIREMENTS PRIOR TO BIDDING PROJECT.
- B.7. CEILING TILE AND GRID REMOVAL, MODIFICATIONS AND REINSTALLATION AS REQUIRED FOR WORK SHOWN SHALL BE PROVIDED BY OTHERS AND IS NOT CONSIDERED PART OF THE PLUMBING CONTRACTOR'S SCOPE OF WORK. COORDINATE WITH OWNER TO PROVIDE THE REQUIRED WORK ACCESS ABOVE ALL LAY-IN CEILINGS.
- B.8. RELOCATION OF EXISTING BUILDING SYSTEMS AND EQUIPMENT, SUCH AS LIGHT FIXTURES, FIRE SPRINKLER PIPING AND HEADS, SMOKE DETECTORS, ELECTRICAL CONDUITS, DUCTWORK, ETC., AS REQUIRED BY FOR INSTALLATION OF NEW WORK IS TO BE PROVIDED BY OTHERS AND IS NOT CONSIDERED PART OF THE PLUMBING CONTRACTOR'S SCOPE OF WORK. COORDINATE WITH OWNER TO PROVIDE THE REQUIRED INTERFERENCE REMOVAL OF OTHER TRADES.
- B.9. THE EXISTING BUILDING PLUMBING SYSTEMS ARE INTENDED TO BE REUSED AS SHOWN ON PLANS OR AS INSTALLED IF NOT SHOWN ON PLANS. ALL EXISTING PLUMBING SYSTEMS AND EQUIPMENT SHOWN ON PLANS IS FOR REFERENCE ONLY AND MAY BE DIFFERENT IN THE FIELD. CONTRACTOR SHALL FIELD SURVEY, TEST AND INSPECT ALL EXISTING PLUMBING SYSTEMS PRIOR TO BIDDING TO ENSURE THE UNDERSTANDS AND ACCEPTS ALL EXISTING CONDITIONS.
- B.10. THE EXISTING GAS EQUIPMENT LOADS SHOWN ON PLANS ARE FOR REFERENCE ONLY TO ASSIST WITH MODIFICATIONS TO BE PROVIDED BY THE PLUMBING CONTRACTOR AND GAS UTILITY COMPANY. FIELD VERIFY ALL ACTUAL GAS LOADS PRIOR TO COORDINATING MODIFICATIONS WITH GAS UTILITY, GAS DESIGN, SIZING, LAYOUT, AND MODIFICATIONS ESTIMATES SHOWN ON PLANS ARE STRICTLY PRELIMINARY.
- C. SCOPE OF WORK:
- C.1. FURNISH ALL REQUIRED LABOR, MATERIALS, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO PERFORM THE WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL MAKE ALL INSTALLATIONS ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND SPECIFICATION, IN ADDITION TO THOSE SHOWN ON PLANS.
- C.2. INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEMS AS DESCRIBED BY THE BASIS OF DESIGN DOCUMENTS. INCIDENTALS ITEMS NOT SPECIFIED, BUT WHICH ARE ESSENTIAL FOR THE PROPER OPERATION OF SPECIFIED SYSTEMS AND EQUIPMENT, ARE INCLUDED IN THE SCOPE OF WORK AND SHALL BE PROVIDED BY CONTRACTOR AT NO ADDITIONAL COST.
- C.3. COMPLY WITH COMMISSIONING PLAN SHOWN ON DRAWINGS AND AS IMPLEMENTED BY OWNER'S DESIGNATED COMMISSIONING AGENT/AUTHORITY (CA).
- C.4. PROVIDE STRUCTURAL ENGINEERING DESIGN, DRAWINGS AND MODIFICATIONS FOR INSTALLATION OF PLUMBING EQUIPMENT OVER 100 LBS., UTILIZING THE BUILDING STRUCTURE OR FOUNDATION FOR SUPPORT, UNLESS PROVIDED IN ADVANCE BY OWNER.
- D. CODE COMPLIANCE:
- D.1. ALL WORK SHALL BE PREPARED IN ACCORDANCE WITH ALL LOCALLY ADOPTED MECHANICAL FUEL GAS AND PLUMBING CODES, ACCORDING TO THE LOCAL AUTHORITY HAVING JURISDICTION(AHJ). THE BASIS OF DESIGN IS INTENDED TO COMPLY WORTH ALL LOCAL CODES ENFORCED BY THE AHJ OVER THOSE PROJECTS. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS MADE BY THE AHJ, WHETHER SPECIFICALLY SHOWN ON PLANS OR NOT.
- D.2. DISCREPANCIES:
- E.1. IN THE CASE OF A DISCREPANCY BETWEEN DRAWINGS, SPECIFICATIONS OR MANUFACTURER'S REQUIREMENTS, THE MOST STRINGENT SHALL APPLY AND BE COMPLIED WITH BY THE CONTRACTOR.
- E.2. IN THE CASE IF A DISCREPANCY BETWEEN CODES AND THE CONSTRUCTION DOCUMENTS OR MANUFACTURER'S REQUIREMENTS, THE AHJ SHALL DETERMINE WHICH SHOULD BE COMPLIED WITH BY THE CONTRACTOR.
- F. JOBSITE CONDITIONS:
- F.1. CONTRACTOR SHALL EXAMINE THE JOBSITE PRIOR TO BIDDING AND FULLY UNDERSTAND THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, BY SUBMITTING A BID FOR WORK, CONTRACTOR ACCEPTS ALL JOB CONDITIONS AS-IS WITHOUT EXTRA COMPENSATION.
- F.2. CONTRACTOR SHALL LOCATE AND UNCOVER THE EXISTING UTILITY SERVICES, INCLUDING GAS, WATER AND SEWER PIPING, TO DETERMINE EXISTING SIZE AND DEPTH OF EACH PRIOR TO STARTING WORK. SERVICE CONNECTIONS SHOWN ON THE PLANS ARE PRELIMINARY ONLY.
- G. PERMITS AND FEES:
- G.1. CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS, LICENSES, AND CERTIFICATIONS REQUIRED BY THE AHJ AND PAY FOR ALL PERMITTING FEES.
- H. COORDINATION WITH OTHER TRADES:
- H.1. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO AVOID INTERFERENCES, PROPERLY SEQUENCE INSTALLATIONS, AND PROVIDE MANUFACTURER'S REQUIRED SERVICE CLEARANCES, WHERE REQUIRED. CONTRACTOR SHALL MAKE THE ADJUSTMENTS TO PLUMBING SYSTEMS AND OR INSTALLATION SCHEDULE.
- H.2. ALL FUEL GAS CONNECTIONS TO HVAC EQUIPMENT, INCLUDING SERVICE VALVES REGULATORS, FLEXIBLE COUPLINGS, AND OTHER FITTINGS SHALL BE PROVIDED BY PLUMBING CONTRACTOR AS REQUIRED BY MANUFACTURER'S INSTALLATION INSTRUCTIONS. OBTAIN COMPLETE AND FINAL FUEL PIPING REQUIREMENTS FROM EQUIPMENT SUPPLIER.
- H.3. ALL ELECTRICAL CONNECTIONS TO PLUMBING FIXTURES AND EQUIPMENT SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR, INCLUDING DISCONNECTS, ENCLOSURES REQUIREMENTS FOR EQUIPMENT FURNISHED.
- H.4. COORDINATE WITH ROOFING CONTRACTOR TO SEAL ALL PIPING PENETRATION THROUGH ROOF PER ARCHITECTURAL ROOFING SPECIFICATIONS, PROVIDE ALL WEATHERPROOFING REQUIRED.
- I. UTILITY CONNECTIONS:
- I.1. COORDINATE WITH UTILITY TO DETERMINE ACTUAL REQUIREMENTS FOR NEW SERVICE CONNECTION SAND METERING. INSTALL ALL UTILITY CONNECTIONS AS REQUIRED BY UTILITY SPECIFICATIONS.
- I.2. PAY ALL UTILITY REQUIRED FEES FOR SERVICE CONNECTIONS OR MODIFICATIONS SHOWN ON PLANS.
- J. CONTRACTOR FURNISHED EQUIPMENT & MATERIALS:
- J.1. SHALL BE NEW, MANUFACTURED CERTIFIED TO COMPLY WITH THE BASIS OF DESIGN, FREE OF DEFECT AND COVERED UNDER A MINIMUM 1-YEAR FACTORY WARRANTY, UNLESS SPECIFIED DIFFERENTLY ELSEWHERE.
- J.2. SHALL BE AS SPECIFIED IN CONSTRUCTION DOCUMENTS OR AS ACCEPTABLE SUBSTITUTION OF EQUAL ITEM, ALL SUBSTITUTIONS MUST BE APPROVED THROUGH THE COMMISSIONING PROCESS TO BE ACCEPTABLE.
- J.3. SHALL BE COMMERCIAL GRADE EQUIPMENT AND MATERIALS, UNLESS OTHERWISE INDICATED IN CONSTRUCTION DOCUMENTS.
- K. CUTTING AND PATCHING:
- K.1. WHERE CUTTING AND PATCHING ARE REQUIRED TO INSTALL PLUMBING SYSTEMS, CONTRACTOR SHALL PROVIDE THE CUTTING SERVICE AND DO SO AS TO MINIMIZE THE AMOUNT OF OPENING. AFTER PLUMBING SYSTEMS HAVE BEEN INSTALLED, PATCH ALL OPENINGS TO MATCH ADJACENT FINISHED SURFACES.
- K.2. FINISHED TEXTURING AND PAINTING TO BE PROVIDED BY OTHERS BUT AT THE PLUMBING CONTRACTOR'S EXPENSES.
- L. PIPING AND SUPPORTS:
- L.1. OPEN PIPING SYSTEMS, INCLUDING FLOOR DRAINS, FLOOR SINKS, HUB DRAINS, ETC. SHALL BE CAPPED OR PLUGGED DURING ALL CONSTRUCTION TO PREVENT DAMAGE AND THE ENTRANCE OF FOREIGN MATERIALS. REMOVE ALL PROTECTIVE COVERINGS UPON COMPLETION OF ALL WORK.

- L.2. COORDINATE WITH HVAC CONTRACTOR TO MAINTAIN A MINIMUM OF TEN (10) FEET OF SEPARATION BETWEEN ALL VENT STACKS TERMINATIONS AND ALL OUTDOOR AIR INTAKES.
- L.3. HOLD ALL PIPING TIGHT AGAINST STRUCTURE TO AVOID DAMAGE AND INTERFERENCE FROM OTHER TRADES. RUN ALL PIPING IN A NEAT AND WORKMAN LIKE MANNER PARALLEL TO BUILDING LINES.
- L.4. PROVIDE ALL REQUIRED PIPING HANGERS AND SUPPORTS WITH PROPER SPACING PER CODE REQUIREMENTS. GROUP PARALLEL RUNS OF PIPING TOGETHER ON COMMON HANGERS AND SUPPORTS TO MINIMIZE SPACE WHEREVER POSSIBLE.
- L.5. MORE CONJUNCTIONS TO BE SUBMITTED TO SLOPE TOWARDS DRAIN FOR BOTH WASTE AND VENT PIPING. ROUT ALL DRAIN PIPING AS NEEDED TO MINIMIZE REQUIRED DEPTH OF BUILDING SEWER. DRAIN PIPING ROUTING SHOWN ON PLANS IS SCHEMATIC LAYOUT, PLUMBING CONTRACTOR SHALL DETERMINE ACTUAL ROUTING PER CODE AND AS TO MINIMIZE COST TO OWNER.
- L.6. PROVIDE INSULATION FOR ALL PLUMBING SYSTEMS AND EQUIPMENT AS REQUIRED FOR PREVENTION OF HEAT LOSS AND/OR FREEZING, REGARDLESS IF SHOWN ON PLANS OR NOT.
- M. EQUIPMENT INSTALLATIONS:
- M.1. WHERE REQUIRED FOR EQUIPMENT PIPING CONNECTIONS, PROVIDE STEEL CHANNEL SUPPORTS STANDS FOR MOUNTING OF PIPING, VALVES, AND FITTINGS. PROPERLY SECURE SUPPORTS TO FLOORS OR WALLS.
- M.2. ENSURE THAT SERVICE CLEARANCES ARE NOT BLOCKED BY ROUTING OF PIPING OR SUPPORT STRUCTURES AT ALL EQUIPMENT CONNECTIONS. COORDINATE WITH HVAC CONTRACTOR AND OR EQUIPMENT PROVIDE TO DETERMINE REQUIRED CLEARANCES AND SERVICE WORK AREAS.
- M.3. PROVIDE WATER HAMMER ARRESTERS ON HOT AND COLD-WATER SUPPLY PIPING FOR ALL WASHING MACHINES, DISHWASHERS, FLUSH VALVES, AND ANY OTHER EQUIPMENT WITH QUICK CLOSING VALVES, AND WHERE REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION. FOR CLARITY, ARRESTORS MAY NOT BE SHOWN ON PLANS.
- M.4. PROVIDE TRAP PRIMERS AND WATER SUPPLY PIPING ON ALL FLOOR DRAINS. FOR CLARITY, TRAP PRIMERS MAY NOT BE SHOWN ON PLANS.
- M.5. INSTALL PUMP AND OTHER VIBRATING EQUIPMENT IN A MANNER THAT MINIMIZES NOISE LEVELS. MAKE ALL POSSIBLE ADJUSTMENTS TO REDUCE NOISE TO ACCEPTABLE LEVELS. SQUEAKS, SQUEALING AND RATTLING ARE NOT ACCEPTABLE.
- N. EXCAVATIONS:
- N.1. IT IS THE PLUMBING CONTRACTORS JOB TO CALL FOR A DIG TESS.
- N.2. EXCAVATIONS SHALL BE CAUTIONOUSLY TO AVOID DISRUPTION OR DAMAGE TO UNDERGROUND UTILITIES. HAVE ALL UNDERGROUND UTILITIES LOCATED AND MARKED, PRIOR TO DIGGING. UTILIZE HAND DIGGING WHEN NEAR BURIED PIPING, CABLES, GAS LINES, ETC. ANY AND ALL DAMAGE TO UNDERGROUND UTILITIES WILL BE REPAIRED BY OTHERS BUT AT THE PLUMBING CONTRACTORS EXPENSE.
- N.3. COMBINE UNDERGROUND PIPING INTO COMMON TRENCHES WHERE POSSIBLE TO MINIMIZE TRENCHING. PIPE ROUTING SHOWN ON PLANS IS PRELIMINARY. SEE CIVIL ENGINEERING PLANS FOR FINAL ROUTING, EQUIPMENT AND UTILITY CONNECTION LOCATIONS.
- O. DELIVERY, STORAGE AND PROTECTION:
- O.1. CONTRACTOR SHALL FURNISH DELIVERY OF ALL REQUIRED MATERIALS AND EQUIPMENT TO BE INSTALLED. CONTRACTORS SHALL VERIFY ALL EQUIPMENT IS UNDAAMAGED AT THE TIME OF DELIVERY FROM THE FACTORY. DAMAGED ITEMS SHOULD BE RETURNED TO THE FACTORY FOR REPLACEMENTS AT NO ADDITIONAL COST TO THE OWNER.
- O.2. WHERE REQUIRED, CONTRACTOR SHALL PROVIDE CRANE AND OR ALL RIGGING EQUIPMENT NEEDED TO INSTALL EQUIPMENT ON PLANS AS SHOWN ON PLANS.
- O.3. CONTRACTOR SHALL COORDINATE WITH OWNER TO OBTAIN ACCEPTABLE JOBSITE STORAGE LOCATION FOR MATERIALS. CONTRACTOR SHALL COMPLY WITH OWNER REQUIREMENTS FOR PROTECTION, ACCESS AND SECURITY OF MATERIALS STORED ONSITE.
- O.4. CONTRACTOR SHALL TAKE ALL REQUIRED PRECAUTIONS TO PROPERLY PROTECT ALL STORED MATERIALS FORM WEATHER, DAMAGE, THEFT OR ANY OTHER HAZARD PRESENT AT THE STORAGE LOCATION.
- P. SPARE PARTS:
- P.1. PRIOR TO COMPLETION OF WORK, CONTRACTOR SHALL PROVIDE OWNER WITH ALL SPARE PARTS PROVIDED FROM FACTORY WITH ANY EQUIPMENT PURCHASED FOR THE PROJECT.

**COMMISSIONING PLAN - PLUMBING:**

- A. COMMISSIONING AGENT
- A.1. THE OWNER'S PROJECT MANAGER OR OTHER PERSON DESIGNATED SHALL FUNCTION AS THE COMMISSIONING AGENT (CA) FOR THE PROJECT.
- B. SUBMITTALS
- B.1. IN ORDER TO OBTAIN OFFICIAL APPROVAL PRIOR TO ORDERING OF EQUIPMENT, CONTRACTOR SHALL PROVIDE THE CA WITH MANUFACTURER'S SUBMITTAL DATA ON ALL NEW EQUIPMENT TO BE FURNISHED. PRE-COMMISSIONING SUBMITTALS SHALL INCLUDE MANUFACTURER'S SPECIFICATIONS, SHOP DRAWINGS AND INSTALLATION MANUALS. PROVIDE SUBMITTALS FOR THE FOLLOWING MAJOR COMPONENTS AND EQUIPMENT PRIOR TO ORDERING:
  - B.1.1. PLUMBING FIXTURES, PLUMBING FIXTURE ACCESSORIES, FAUCETS, VALVES, ETC. WATER HEATERS, HOT WATER CIRCULATION PUMPS, PIPING (HOT, DOMESTIC, AND NATURAL GAS)
- C. FIELD INSPECTIONS:
- C.1. WHERE REQUIRED BY CA, COORDINATE FIELD INSPECTIONS OF CRITICAL CONSTRUCTION DETAILS FOR APPROVAL, PRIOR TO PROCEEDING WITH ADDITIONAL WORK. AT A MINIMUM, FIELD INSPECTIONS SHALL INCLUDE:
  - C.1.1. PIPING SYSTEM STARTUP AND TESTING, EQUIPMENT STARTUP AND TESTING, OPERATIONS AND MAINTENANCE TRAINING
- D. STARTUP AND TESTING:
- D.1. PRESSURE TEST THE WASTE/VENT PIPING SYSTEMS BY PLUGGING BUILDING MAIN DRAIN CONNECTION TO SEWER, AND FILLING ENTIRE SYSTEM FULL OF WATER FROM LOWEST POINT TO HIGHEST POINT.
- D.2. PRESSURE TEST THE POTABLE WATER SYSTEMS TO MINIMUM OF 60 PSIG. USING POTABLE WATER OR AIR, FOR A MINIMUM OF 60 MINUTES WITHOUT LEAKS. FLUSH TO REMOVE DEBRIS AND PROVIDE DISINFECTION AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- D.3. FOLLOW ALL EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS TO PROVIDE COMPLETE STARTUP AND TESTING OF NEW PLUMBING EQUIPMENT. MAKE MODIFICATION ADJUSTMENTS AS REQUIRED TO MEET PERFORMANCE SPECIFICATIONS ON PLANS. PROVIDE THE CA WITH COMPLETED MANUFACTURER'S STARTUP SHEETS AS RECORD OF SUCCESSFUL INSTALLATION. PROVIDE STARTUP FOR THE FOLLOWING:
  - D.3.1. NATURAL GAS FIRED WATER HEATERS, CIRCULATION PUMPS, NATURAL GAS FIRED DRIERS
- E. O&M DOCUMENTATION:
- E.1. PROVIDE THE CA WITH A MINIMUM OF TWO (2) SETS OF BINDERS FOR THE PROJECT. EACH BINDER SHOULD INCLUDE THE FOLLOWING ITEMS:
  - E.1.1. AS-BUILD DRAWING MARKUPS SHOWING MODIFICATIONS WHERE INSTALLATIONS ARE DIFFERENT THAN DESIGN DRAWINGS.
  - E.1.2. EQUIPMENT MANUFACTURER'S INSTALLATION, OPERATION MAINTENANCE MANUALS.
  - E.1.3. COMPLETED MANUFACTURER'S EQUIPMENT STARTUP SHEETS.
  - E.1.4. EQUIPMENT SET-POINTS DETERMINED AT STARTUP.
  - E.1.5. EQUIPMENT WARRANTIES
- F. TRAINING:
- F.1. PROVIDE A MINIMUM OF ONE (1) TRAINING SESSION OF NO LESS THAN TWO (2) HOURS OF ON-SITE TRAINING FOR OWNER'S OPERATIONAL STAFF UPON COMPLETION OF ALL STARTUP WORK. TRAINING SHALL COVER OPERATIONS AND MAINTENANCE ON ALL NEW PLUMBING SYSTEMS AND EQUIPMENT INSTALLED BY CONTRACTOR. TRAINING SHALL UTILIZE MANUFACTURER'S OPERATIONS AND MAINTENANCE MANUALS AS BASIS FOR INSTRUCTION.

**EQUIPMENT & MATERIALS - PLUMBING**

- A. NATURAL GAS EQUIPMENT:
- A.1. GAS PIPING: BLACK STEEL, CONFIRMING TO ASTM A 53 OR ASTM A 106. SCHEDULE 40 WITH SCREWED OR WELDED JOINTS AND FITTINGS OF SAME MATERIAL AS PIPING. SCREWED FITTINGS SHALL USE JOINT TAPE ON ALL MALE THREADS WELDED JOINTS SHALL USE AND APPROVED METAL FILLER MATERIAL FOR NATURAL GAS.
- A.2. GAS COCK: FLAT TEE HEAD GAS PLUG VALVE, BRONZE BODY, RATED TO 2 PSIG, FNPT THREADED, AS MANUFACTURED BY A.Y. MCDONALD OR EQUALS. SELECT VALVE SUITABLE FOR LOCATION WHERE INSTALLED.
- A.3. VENT PIPING: SHALL BE AS SPECIFIED BY GAS FIRED EQUIPMENT MANUFACTURER'S INSTRUCTIONS AS FOLLOWS:
  - A.3.1. TYPE B HEAVY-GAUGE, DOUBLE WALL AIR-INSULATED PIPE, GALVANIZED STEEL OUTER WALL, ALUMINUM INNER WALL, UL LISTED, AS MANUFACTURED BY ALERVAN OR EQUAL. FITTINGS AND ACCESSORIES SHALL BE BY SAME MANUFACTURER AS VENT PIPING.
  - A.3.2. SCHEDULE 40 PVC PIPING AND FITTINGS AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS. PROVIDE FACTORY WALL CAP AT TERMINATION. PROVIDE CONDENSATE DRAIN PIPING AND FITTINGS AND ROUT TO APPROVED DRAIN LOCATIONS, PER MANUFACTURER'S INSTRUCTIONS. WHERE REQUIRED FOR PROPER DRAINAGE, PROVIDE FACTORY CONDENSATE DRAIN PUMP AND CONDENSATE NEUTRALIZER.
- B. DOMESTIC WATER PIPING:
- B.1. WATER SERVICE PIPING (OUTSIDE BUILDING): MINIMUM 160 PSI PRESSURE RATED, CONFORMING TO NSF 61 STANDARDS, OF THE FOLLOWING APPROVED TYPES:
  - B.1.1. TYPE K COPPER, WITH JOINTS AND FITTINGS OF SAME MATERIAL. SOLDER JOINTS SHALL HAVE A MAXIMUM OF 8% LEAD CONTENT.

- B.1.2. GALVANIZED STEEL PIPING, JOINTS AND FITTINGS.
- B.1.3. PVC PLASTIC PIPE AND FITTINGS WITH SLIP OR SCREWED JOINTS AND FITTINGS OF SAME MATERIAL.
- B.1.4. POLYETHYLENE (PE) PLASTIC TUBING, JOINTS, AND FITTINGS.
- B.1.5. POLYPROPYLENE (PP) PLASTIC PIPE OR TUBING, JOINTS AND FITTINGS.
- B.2. WATER DISTRIBUTION PIPING (INSIDE BUILDING): MINIMUM 100 PSI PRESSURE RATED, CONFORMING TO NSF 61 STANDARDS OF THE FOLLOWING APPROVED TYPES:
  - B.2.1. TYPE K COPPER, WITH JOINTS AND FITTINGS OF SAME MATERIAL. SOLDER JOINTS SHALL BE MADE WITH LEAD FREE FLUX AND SOLDER.
  - B.2.2. GALVANIZED STEEL PIPING, JOINTS AND FITTINGS.
  - B.2.3. CPVC PLASTIC PIPE AND FITTINGS WITH SLIP OR SCREWED JOINTS AND FITTINGS OF SAME MATERIAL.
  - B.2.4. PEX PLASTIC TUBING AND FITTINGS.
- C. SANITARY WASTE AND VENT PIPING: CAN UTILIZE ANY OF THE FOLLOWING PIPING MATERIAL TYPES DEPENDING UPON THE APPLICATION:
  - C.1. BUILDING DRAINAGE (INSIDE BUILDING):
    - C.1.1. SCHEDULE 40 ABS PLASTIC PIPE AND FITTINGS
    - C.1.2. CAST IRON PIPE AND FITTINGS
    - C.1.3. SCHEDULE 40 PVC PLASTIC PIPING AND FITTINGS
  - C.2. BUILDING SEWER(OUTSIDE BUILDING):
    - C.2.1. SCHEDULE 40 ABS PLASTIC PIPE AND FITTINGS
    - C.2.2. CAST IRON PIPE AND FITTINGS
    - C.2.3. SCHEDULE 40 PVC PLASTIC PIPING AND FITTINGS

- D. PIPING INSULATION:
- D.1. MATERIALS: PIPING INSULATION MATERIALS SHALL BE ONE OF THE FOLLOWING TYPES:
  - D.1.1. POLYETHYLENE FOAM, SELF-SEALING TYPE
  - D.1.2. RUBBER SEED SEALING TYPE/MOLDED FIBERGLASS WITH ALL SERVICE JACKET
  - D.2. DOMESTIC HW PIPING:
    - D.2.1. PROVIDE PIPING INSULATION ON ALL DOMESTIC HOT WATER PIPING, AS WELL AS ALL DOMESTIC WATER PIPING INSTALLED IN EXTERIOR WALLS, ATTICS OR UNCONDITIONED SPACES. INSULATION SHALL BE MINIMUM R-4 RATED, WITH MINIMUM 1" THICKNESS ON HW PIPING UP THRU 1-1/4" AND 1" ON PIPING OVER 1-1/4".
  - D.3. LAVATORIES:
    - D.3.1. INSULATE ALL EXPOSED DRAIN AND WATER PIPING UNDER LAVATORIES WITH FACTORY COVERS AS MANUFACTURED BY TRUEBRU LAVGUARD, MODEL #102 OR EQUAL.
- E. PLUMBING FIXTURES AND ACCESSORIES: AS SCHEDULED ON DRAWINGS OR APPROVED EQUAL. FURNISH AND INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE ALL REQUIRED FITTINGS AND ACCESSORIES FOR A COMPLETE AND FUNCTIONING FIXTURE, WHETHER SPECIFIED ON PLANS OR NOT.
- E.1. POINT OF USE MIXING VALVES:
  - E.1.1. THERMOSTATIC TEMPERATURE LIMITING DEVICE USED TO SUPPLY SINGLE OUTLET. AS MANUFACTURED BY LEONARD MODEL #170A-LF, OR EQUAL. ADJUST AS NEEDED TO MAINTAIN MAXIMUM WATER TEMPERATURE AT OUTLET BELOW 120°F.
- E.2. WATER HEATERS:
  - E.2.1. TYPE: STORAGE CAPACITY (IF NOT TANKLESS), AND PERFORMANCE AS SCHEDULED ON DRAWINGS OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE ALL REQUIRED VALVES AND FITTINGS AS SHOWN ON THE PLANS, INCLUDING THE FOLLOWING ACCESSORIES:
    - E.2.1.1. EXPANSION TANK:
    - E.2.1.2. ANTI-MICROBIAL LINER, WATER DIFFUSER, PRE-CHARGED TO MATCH WATER SERVICE PRESSURE, DEEP DRAWN STEEL DOMES, THICK RUBBER DIAPHRAGM, STAINLESS STEEL SYSTEM CONNECTION NSF61 APPROVED, AS MANUFACTURED BY AMITROL, MODEL THERM-X-TROL, OR EQUAL. SIZING SHALL BE PROVIDED BY VENDOR BASED ON WATER HEATER CAPACITY.
    - E.2.1.3. VACUUM BREAKER:
      - E.2.1.3.1. LOW PROFILE, ALL BRASS BODY, PROTECTIVE CAP, AS MANUFACTURED BY WATTS MODEL #N36-M1, OR EQUAL. LINE SIZED FOR COLD WATER INLET PIPING.
    - E.2.1.4. T&P RELIEF VALVE:
      - E.2.1.4.1. TEMPERATURE AND PRESSURE RELIEF VALVE, LEAD-FREE COPPER ALLOY BODY WITH NPT MALE INLET AND NPT FEMALE OUTLET CONNECTIONS. UNIQUE THERMOSTAT WITH SPECIAL THERMO-BONDED COATING, AND A TEST LEVER. TEMPERATURE RELIEF:210°F, PRESSURE RELIEF RANGE: 75PSI TO 150PSI, AS MANUFACTURED BY WATTS, SERIES LF100XL.
    - E.2.1.5. HW RECIRCULATION PUMP:
      - E.2.1.5.1. IN-LINE CENTRIFUGAL PUMP, ELECTRONIC CONTROLS CAPABLE OF STARTING/STOPPING THE PUMP AS THE DEMAND FOR HOT WATER COMES AND GOES, AND STOPPING PUMP WITHIN 5 MINUTES OF END OF HEATING CYCLE. INCLUDE ALL FACTORY REMOTE TEMPERATURE SENSORS AND ACCESSORIES REQUIRED TO COMPLY WITH IECC (AHJ APPROVED YEAR).
    - E.2.1.6. HOSE BIBS:
      - E.2.1.6.1. OUTDOORS:
        - E.2.1.6.1.1. SHALL BE WOODFORD MODEL 67, CHROME FINISH, FREEZEPROOF TYPE, AUTOMATIC DRAINING WITH BACK FLOW PREVENTER AND KEVED OPERATION, OR APPROVED EQUAL. CONTRACTOR SHALL VERIFY WALL THICKNESS PRIOR TO ORDERING HOSE BIBS.
      - E.2.1.6.1.2. INDOOR:
        - E.2.1.6.1.2.1. SHALL BE WOODFORD MODEL 24P-1/2, CHROME FINISH, ANTI-SIPHON VACUUM BREAKER, OPTIONAL TEE KEY, OR APPROVED EQUAL.
    - E.2.1.7. FLOOR DRAINS:
      - E.2.1.7.1. AS SCHEDULED ON DRAWINGS OR MANUFACTURER RECOMMENDED EQUAL. VERIFY SCHEDULED SELECTIONS WITH DRAIN MANUFACTURER FOR EXPECTED USE AND LOCATION AND PROVIDE MANUFACTURER SPECIFIED DRAINS, ALONG WITH RECOMMENDED ACCESSORIES.
    - E.2.1.8. TRAP PRIMERS:
      - E.2.1.8.1. PROVIDE ALL FLOOR DRAINS WITH TRAP PRIMERS OR AS NOTED ON PLANS. AUTOMATIC VALVE, BRONZE BODY, 1/2" NPT THREADED CONNECTIONS, AS MANUFACTURED BY JAY R. SMITH, FIGURE 2699 OR EQUAL.
    - E.2.1.9. CLEANOUTS:
      - E.2.1.9.1. PROVIDE WHERE SHOWN ON PLANS AND AS REQUIRED BY LOCAL PLUMBING CODES. CLEANOUTS SHALL BE SUITABLE FOR CONDITIONS WHERE INSTALLED AS FOLLOWS:
        - E.2.1.9.1.1. FLOORS, FINISHED:
          - E.2.1.9.1.1.1. CAST IRON WITH NICKEL BRONZE, ADJUSTABLE TOP, AS MANUFACTURED BY J.R. SMITH, MODEL #4025 OR EQUAL.
        - E.2.1.9.1.2. FLOORS, UNFINISHED:
          - E.2.1.9.1.2.1. CAST IRON WITH NON-TILT TRACTOR COVER, ADJUSTABLE TOP, AS MANUFACTURED BY J.R. SMITH, MODEL #4237 OR EQUAL.
        - E.2.1.9.1.3. WALL:
          - E.2.1.9.1.3.1. CAST IRON CLEAN-OUT TEE, STAINLESS STEEL ROUND COVER AND SCREW, IRON PLUG WITH SEAL, AS MANUFACTURED BY J.R. SMITH, MODEL #4520S OR EQUAL.
        - E.2.1.9.1.4. GRADE:
          - E.2.1.9.1.4.1. HEAVY DUTY CAST IRON COVER, FLANGED FOR USE IN POURED CONCRETE, SUITABLE FOR USE IN ASPHALT PAVING OR EARTH, CAST IRON BODY WITH ADJUSTABLE TOP, AS MANUFACTURED BY J.R. SMITH, MODEL #4250 OR EQUAL.
      - E.2.1.9.1.5. 2-WAY(DOUBLE):
        - E.2.1.9.1.5.1. GRADE CLEAN-OUT WITH 2-WAY CLEAN-OUT TEE FITTING IN SEWER LINE, JUST OUTSIDE BUILDINGS WALLS OR AS SHOWN ON PLANS.
      - E.2.1.10. BACK-FLOW PREVENTER:
        - E.2.1.10.1. REDUCED PRESSURE TYPE, DUAL CHECK VALVES WITH INTERMEDIATE RELIEF VALVE, TEE HANDLE SHUTOFF VALVES, AS MANUFACTURED BY WATTS, SERIES 009 OR EQUAL.
      - E.2.1.11. BALL VALVES:
        - E.2.1.11.1. LINE SIZED, FULLY PORTED, BRASS BODY.
      - E.2.1.12. WATER HAMMER ARRESTERS:
        - E.2.1.12.1. PROVIDE SHOCK ABSORBER ON DOMESTIC WATER AND HOT WATER SUPPLY LINES FOR ALL FAST ACTUATING DEVICES, INCLUDING BUT NOT LIMITED TO WASHING MACHINES, DISHWASHERS AND OTHER EQUIPMENT WITH AUTOMATIC VALVES, AS MANUFACTURED BY WATTS, MODEL #15M2 OR EQUAL. SELECT AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.
      - E.2.1.13. ELECTRIC WATER COOLER:
        - E.2.1.13.1. SELF-CONTAINED, HEAVY DUTY, VANDAL RESISTANT WATER COOLER, FRONT PUSHBUTTON ACTIVATION, INTERNAL BASIN DRAIN, WALL MOUNTED, AS MANUFACTURED BY ELKAY #LVRCHDTL83C OR APPROVED EQUAL. SEE SCHEDULES FOR PERFORMANCE REQUIREMENTS. REFRIGERATION SYSTEM INCLUDES RECIPROCATING TYPE COMPRESSOR WITH R134 REFRIGERANT, COPPER TUBING AND STAINLESS-STEEL TANK, EPS FOAM INSULATION, CONDENSER FAN AND ADJUSTABLE THERMOSTATIC CONTROLS.
    - E.2.2. SAMPLE WELL:
      - E.2.2.1. FACTORY MADE. BELOW GRADE INSTALLATION. CONCRETE CONSTRUCTION WITH STEEL RISER COVER, PEDESTRIAN RATED LOADING ON COVER, AS MANUFACTURED BY PARK ENVIRONMENTAL, MODEL #SWBP OR EQUAL. COORDINATE FINAL SELECTION, INCLUDING REQUIRED ACCESSORIES AND DESIGN.

**DESIGN WITHOUT CONSTRUCTION ADMINISTRATION:**

IT IS UNDERSTOOD AND AGREED THAT THE ARCHITECT/ENGINEER'S SCOPE DOES NOT INCLUDE PROJECT OBSERVATION OR REVIEW OF THE CONTRACTOR'S PERFORMANCE OR ANY OTHER CONSTRUCTION PHASE SERVICES. THE OWNER AGREES TO PROVIDE CONSTRUCTION ADMINISTRATION AND ASSUMES ANY AND ALL POTENTIAL LIABILITY ARISING FROM SUCH ADMINISTRATION. THE OWNER ASSUMES ALL RESPONSIBILITY FOR INTERPRETATION OF THE CONTRACT DOCUMENTS AND FOR CONSTRUCTION OBSERVATION AND THE OWNERS WAIVES ANY CLAIMS AGAINST THE ARCHITECT/ENGINEER THAT MAY BE IN ANY WAY CONNECTED THERETO. THE ARCHITECT/ENGINEER WILL NOT RESPOND TO ANY QUESTIONS DIRECTED TO THE INTERPRETATION OF THE CONTRACT DOCUMENTS OR IN RESPONSE TO ISSUES ENCOUNTERED BY AND AS RELAYED BY THE CONTRACTOR IN THE FIELD.

**SYMBOL LEGEND - PLUMBING:**

- NEW SANITARY DRAIN PIPING, UNDERGROUND OR UNDER FLOOR.
- VENT
- NEW SANITARY VENT PIPING
- NEW DOMESTIC HW PIPING, ABOVE CEILING OR IN WALLS.
- NEW DOMESTIC CW PIPING, ABOVE CEILING OR IN WALLS.
- NEW DOMESTIC HW RE-CIRCULATION PIPING.
- NEW NATURAL GAS PIPING, CONCEALED ABOVE CEILING OR IN WALLS, OR EXPOSED IN MECH SPACES, OUTDOORS OR ROOF.
- NEW GREASE WASTE PIPING, ABOVE CEILING OR IN WALLS.
- NEW OXYGEN PIPING, ABOVE CEILING OR IN WALLS.
- NEW MED GAS PIPING, ABOVE CEILING OR IN WALLS.
- NEW AIR PIPING, ABOVE CEILING OR IN WALLS.
- NATURAL GAS UTILITY.
- POINT OF CONNECTION TO EXISTING WATER PIPING.
- PIPE ELBOW, 90 DEG TURNED DOWN.
- PIPE ELBOW, 90 DEG TURNED UP.
- PIPE TEE, BRANCH TURNED DOWN.
- PIPE TEE, BRANCH TURNED UP.
- VENT STACK CONNECTION TO WASTE LINE BELOW.
- WASTE STACK THROUGH FLOOR.
- CLEANOUT, FLOOR OR GRADE, WITH PROPER COVER.
- WALL CLEANOUT PLUG AND COVER.
- HOSE BIB, FREEZEPROOF WITH VACUUM BREAKER, SEE SPECS.
- GATE VALVE, LINE SIZED.
- BALL VALVE, LINE SIZED.
- GAS COCK, LINE SIZED.
- CHECK VALVE OR BACKFLOW PREVENTOR AS NOTED.
- PRESSURE REGULATOR VALVE, GAS OR WATER.
- BALANCING VALVE OR CIRCUIT SETTER.
- PIPE UNION COUPLING.
- PIPE FLEXIBLE COUPLING.
- HW RECIRCULATION PUMP, SEE SCHEDULE.
- NEW FLOOR DRAIN, MARK SHOWN, SEE SCHEDULE.
- FLOOR SINK.
- TEMPERING VALVE.

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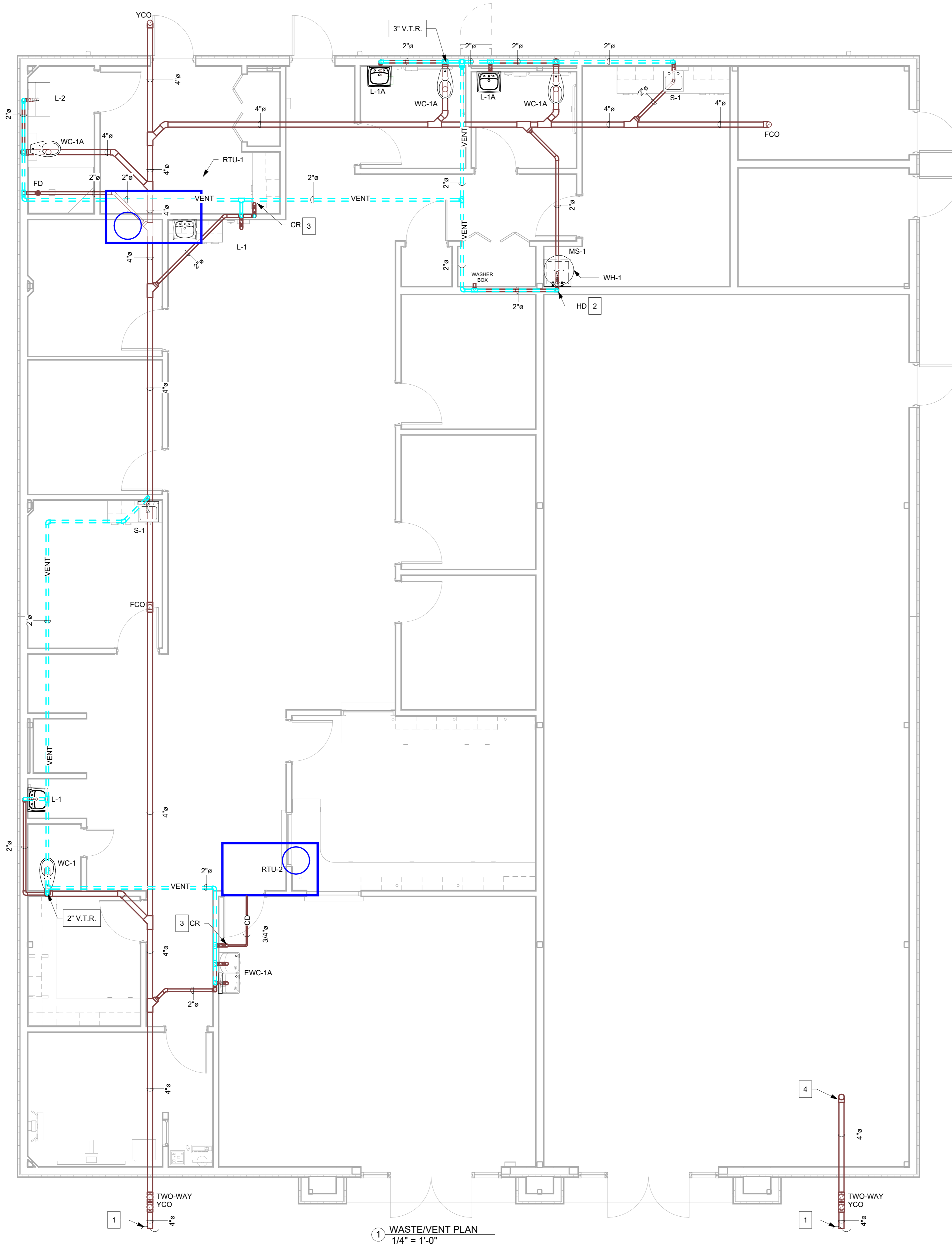
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General Notes - Plumb

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1 WASTE/VENT PLAN  
1/4" = 1'-0"

**GENERAL NOTES:**

- A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE EXACT LOCATION OF ALL UTILITY SERVICES AND SLOPE PRIOR TO BIDDING.
- B. PROVIDE AND INSTALL YARD/GROUND CLEANOUTS A MAXIMUM OF 100'-0" ON CENTER.
- C. PRIMARY A/C CONDENSATE LINE SHALL BE CONNECTED DIRECTLY FROM THE HVAC EQUIPMENT AND DISCHARGE IN GROUP TO THE 2" HUB DRAIN/CONDENSATE RECEPTOR.
- D. SECONDARY A/C CONDENSATE LINE SHALL BE CONNECTED FROM EACH SAFETY DRAIN PAN AND DISCHARGE INDIVIDUALLY TO A VISIBLE HEIGHT BELOW CEILING IN THE NEAREST SINK, LAVATORY OR MOP SINK.

**KEYED NOTES:**

- 1. CONTRACTOR SHALL CONNECT NEW SEWER LINE TO EXTERIOR SANITARY LINE. PLUMBING CONTRACTOR SHALL RUN LINE UP TO 5' AWAY FROM EXTERIOR WALL AND UTILITY CONTRACTOR SHALL RUN REMAINING EXTERIOR LINE. REFER TO CIVIL DRAWINGS FOR EXACT POINT OF CONNECTION PRIOR TO ANY BIDDING OF WORK.
- 2. 2" HUB DRAIN LOCATED UNDER WATER HEATER PAN. COORDINATE HEIGHT AND LOCATION REQUIREMENTS WITH PLUMBING CONTRACTOR.
- 3. DRAIN PIPING VERTICALLY INSIDE WALL FROM ROOFTOP UNIT(S) TO CONDENSATE RECEPTOR. COORDINATE EXACT LOCATION OF CONDENSATE RECEPTOR WITH PLUMBING CONTRACTOR.
- 4. CONTRACTOR SHALL ENSURE THAT A 4" CAPPED STUB-OUT WASTE LINE IS INSTALLED FOR FUTURE USE. STUB-OUT SHALL BE WITHIN ANY FOUNDATION LEAVE OUT.

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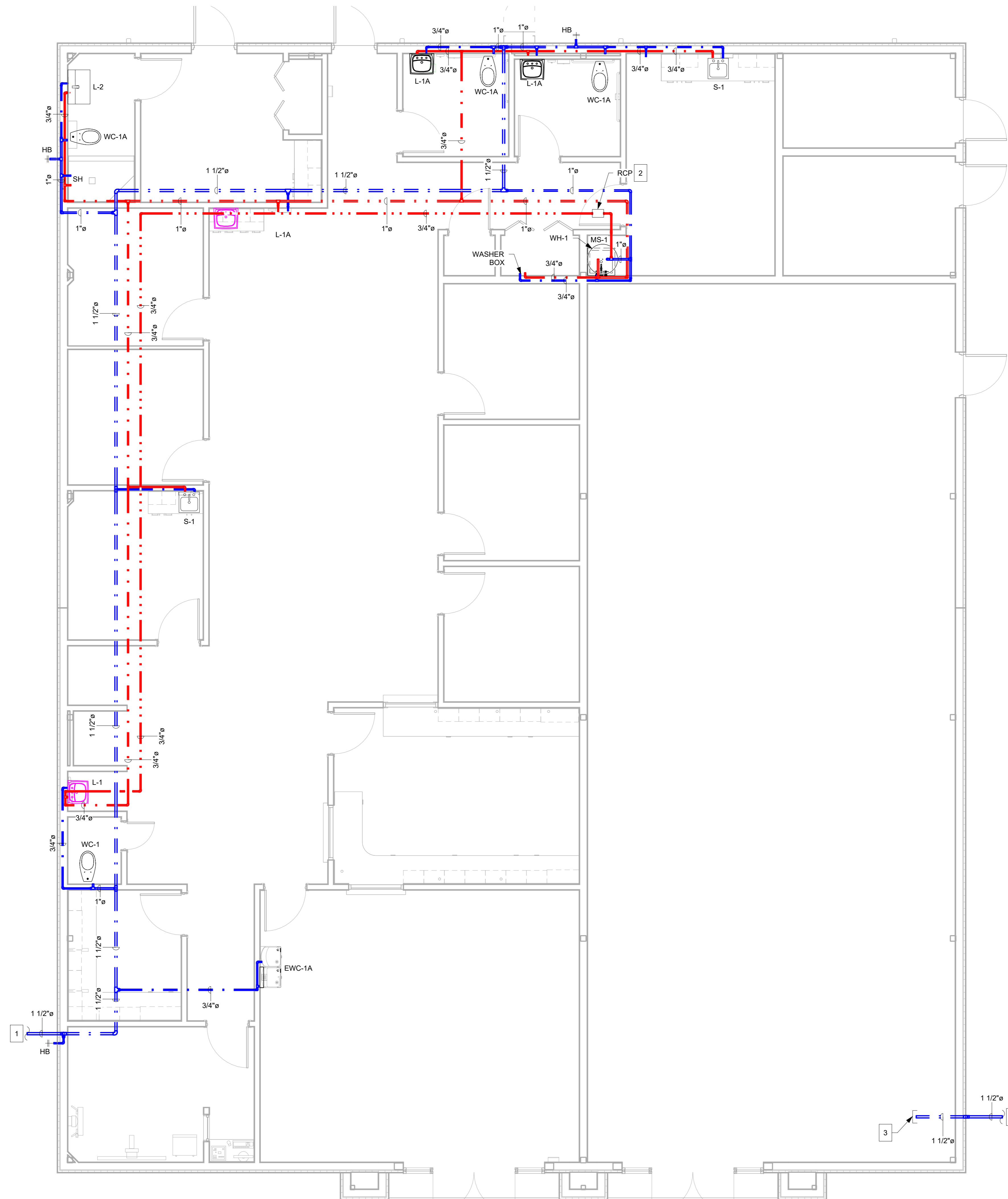
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**Waste/Vent - Plumb**

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1 DOM/HOT WATER PLAN  
1/4" = 1'-0"

**GENERAL NOTES:**

- A. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION OF ALL UTILITY SERVICES PRIOR TO BIDDING.
- B. THE CONTRACTOR SHALL PROVIDE AND INSTALL A WATER HAMMER ARRESTOR #WADE4481 TO ALL HIGH FLOW DEVICES, WHERE QUICK-CLOSING VALVES ARE UTILIZED. WATER HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010 OR PDI-WH 201 & UPC SECTION 609.10. (AIR CHAMBERS NOT ALLOWED).
- C. CONTRACTOR SHALL PROVIDE AND INSTALL A BACKFLOW PREVENTOR VALVE IN THE SAME VAULT AS THE WATER METER. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION OF WATER METER PRIOR TO INSTALLATION.

**KEYED NOTES:**

- 1. THE CONTRACTOR SHALL CONNECT NEW WATER LINE TO EXISTING DOMESTIC WATER LINE BELOW SLAB. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION OF WATER METER PRIOR TO ANY WORK.
- 2. PROVIDE AND INSTALL A RETURN CIRCULATING PUMP. REFER TO PLUMBING FIXTURE SCHEDULE IN SHEET P4.0 FOR FURTHER INFORMATION.
- 3. 1-1/2" CAPPED DOMESTIC WATER LINE ABOVE CEILING HEIGHT FOR FUTURE USE.

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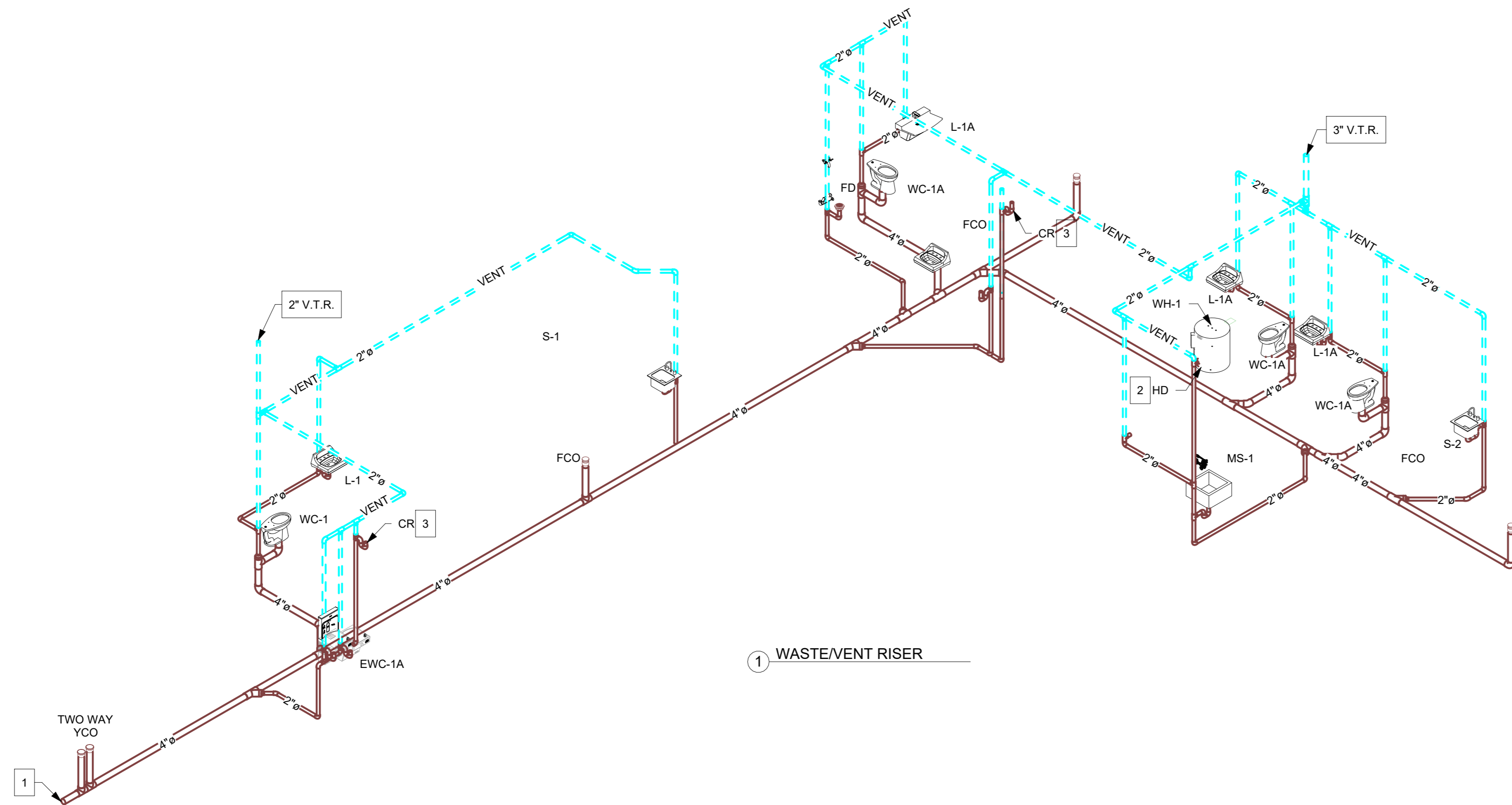
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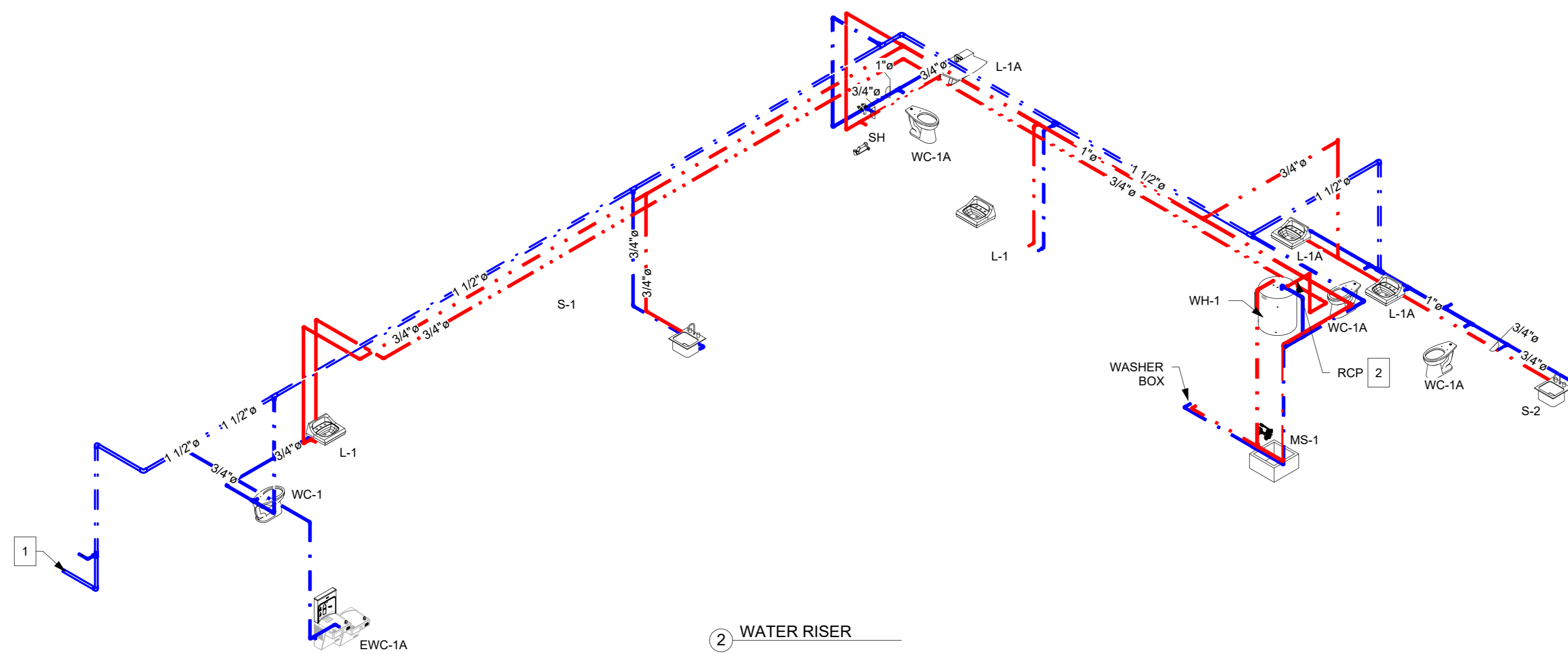
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1 WASTE/VENT RISER



2 WATER RISER

**WASTE GENERAL NOTES:**

- A. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE EXACT LOCATION OF ALL UTILITY SERVICES AND SLOPE PRIOR TO BIDDING.
- B. PROVIDE AND INSTALL YARD/GROUND CLEANOUTS A MAXIMUM OF 100'-0" ON CENTER.
- C. PRIMARY A/C CONDENSATE LINE SHALL BE CONNECTED DIRECTLY FROM THE HVAC EQUIPMENT AND DISCHARGE IN GROUP TO THE 2" HUB DRAIN/CONDENSATE RECEPTOR.
- D. SECONDARY A/C CONDENSATE LINE SHALL BE CONNECTED FROM EACH SAFETY DRAIN PAN AND DISCHARGE INDIVIDUALLY TO A VISIBLE HEIGHT BELOW CEILING IN THE NEAREST SINK, LAVATORY OR MOP SINK.

**WASTE KEYED NOTES:**

- 1. CONNECT NEW SEWER LINE TO EXISTING SANITARY PIPE BELOW SLAB. REFER TO CIVIL DRAWINGS FOR EXACT POINT OF CONNECTION PRIOR TO ANY WORK.
- 2. 2" HUB DRAIN LOCATED UNDER WATER HEATER PAN. COORDINATE HEIGHT AND LOCATION REQUIREMENTS WITH PLUMBING CONTRACTOR.
- 3. DRAIN PIPING VERTICALLY INSIDE WALL FROM ROOFTOP UNIT(S) TO CONDENSATE RECEPTOR. COORDINATE EXACT LOCATION OF CONDENSATE RECEPTOR WITH PLUMBING CONTRACTOR.

**WATER GENERAL NOTES:**

- A. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION OF ALL UTILITY SERVICES PRIOR TO BIDDING.
- B. THE CONTRACTOR SHALL PROVIDE AND INSTALL A WATER HAMMER ARRESTOR #WADE4481 TO ALL HIGH FLOW DEVICES, WHERE QUICK-CLOSING VALVES ARE UTILIZED. WATER HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010 OR PDI-WH 201 & UPC SECTION 609.10. (AIR CHAMBERS NOT ALLOWED).
- C. CONTRACTOR SHALL PROVIDE AND INSTALL A BACKFLOW PREVENTOR VALVE IN THE SAME VAULT AS THE WATER METER. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION OF WATER METER PRIOR TO INSTALLATION.

**WATER KEYED NOTES:**

- 1. THE CONTRACTOR SHALL CONNECT NEW WATER LINE TO EXISTING DOMESTIC WATER LINE BELOW SLAB. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION OF WATER METER PRIOR TO ANY WORK.
- 2. PROVIDE AND INSTALL A RETURN CIRCULATING PUMP. REFER TO PLUMBING FIXTURE SCHEDULE IN SHEET P4.0 FOR FURTHER INFORMATION.

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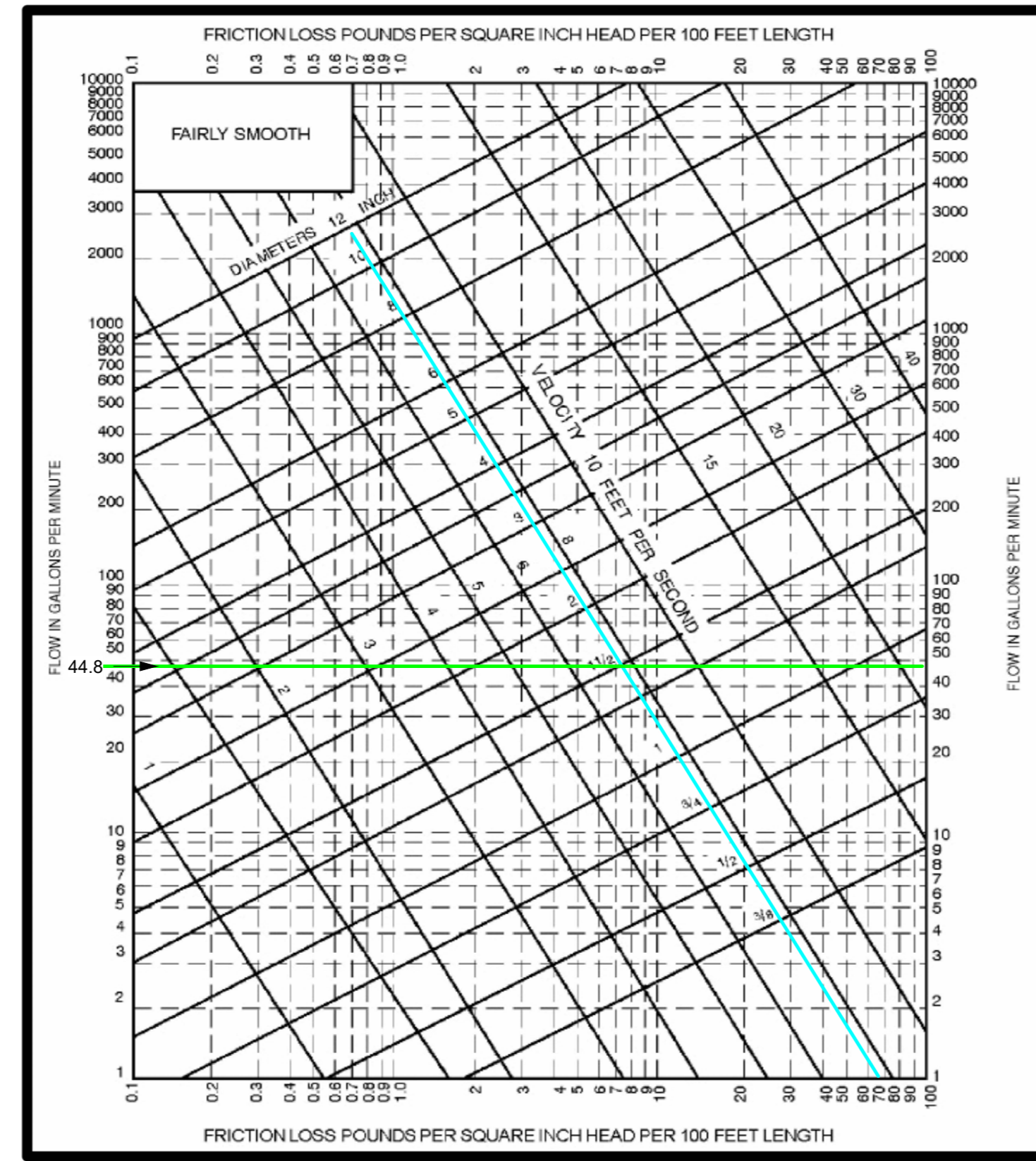
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### WATER SUPPLY FIXTURE UNITS (2021 IPC-Table E103.3(2))

DEVICE	WSFU PER DEVICE			QTY	TOTAL WSFU		
	COLD	HOT	TOTAL		COLD	HOT	TOTAL
BATHTUB (PRIVATE)	1.0	1.0	1.4	0	0.00	0.00	0.00
BATHTUB (PUBLIC)	3.0	3.0	4.0	0	0.00	0.00	0.00
LAVATORY (PRIVATE)	0.5	0.5	0.7	5	2.50	2.50	3.50
LAVATORY (PUBLIC)	1.5	1.5	2.0	0	0.00	0.00	0.00
WATER CLOSET (PRIVATE FLUSH TANK)	2.2	0.0	2.2	0	0.00	0.00	0.00
WATER CLOSET (PRIVATE FLUSH VALVE)	6.0	0.0	6.0	4	24.00	0.00	24.00
WATER CLOSET (PUBLIC FLUSH TANK)	5.0	0.0	5.0	0	0.00	0.00	0.00
WATER CLOSET (PUBLIC FLUSH VALVE)	10.0	0.0	10.0	0	0.00	0.00	0.00
WATER CLOSET (PUB./PRIV. FLUSHOMETER)	2.0	0.0	2.0	0	0.00	0.00	0.00
SHOWER HEAD (PUBLIC)	3.0	3.0	4.0	0	0.00	0.00	0.00
SHOWER HEAD (PRIVATE)	1.0	1.0	1.4	1	1.00	1.00	1.40
SINK (PRIVATE)	1.0	1.0	1.4	2	2.00	2.00	2.80
KITCHEN SINK (HOTEL/RESTAURANT)	3.0	3.0	4.0	0	0.00	0.00	0.00
SERVICE SINK	2.25	2.25	3.0	1	2.25	2.25	3.00
WATER HEATER	0.00	2.0	2.0	1	0.00	2.00	2.00
BIDET	1.5	1.5	2.0	0	0.00	0.00	0.00
URINAL (1" FLUSHOMETER)	10.0	0.0	10.0	0	0.00	0.00	0.00
URINAL (3/4" FLUSHOMETER)	5.0	0.0	5.0	0	0.00	0.00	0.00
COMBINATION FIXTURE	2.25	2.25	3.0	0	0.00	0.00	0.00
WASHING MACHINE (8 LBS PUBLIC)	2.25	2.25	3.0	0	0.00	0.00	0.00
WASHING MACHINE (8 LBS PRIVATE)	1.0	1.0	1.4	0	0.00	0.00	0.00
WASHING MACHINE (15 LBS PUBLIC)	3.0	3.0	4.0	0	0.00	0.00	0.00
HOSE BIB	2.5	0.0	2.5	0	0.00	0.00	0.00
DRINKING FOUNTAIN	0.25	0.0	0.25	1	0.25	0.00	0.25
DISHWASHING MACHINE	8.0	1.4	1.4	0	0.00	0.00	0.00
ICE MACHINE	0.0	0.0	8.0	0	0.00	0.00	0.00
<b>TOTAL (WSFU)</b>					<b>32.0</b>	<b>9.8</b>	<b>37.0</b>
<b>TOTAL(GPM) (Table E103.3(3))</b>					<b>44.8</b>		



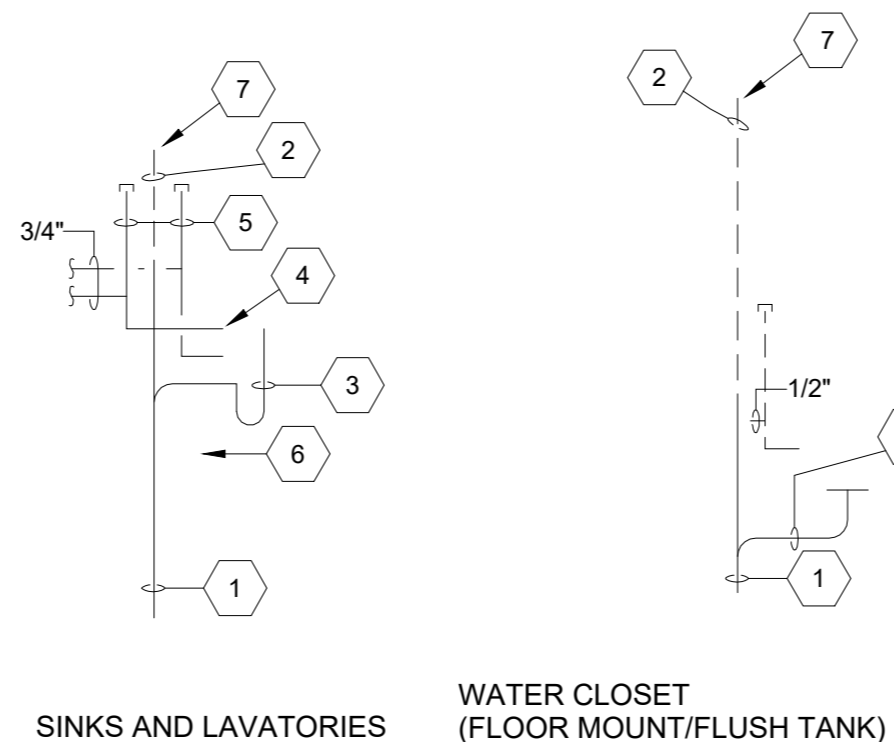
### PLUMBING SCHEDULE

LABEL	QTY	DESCRIPTION	GENERAL	MAKE	MODEL	CONNECTION SIZE				DESCRIPTION/FEATURES
						DW	HW	WASTE	VENT	
EWC-1A	1	BI-LEVEL WATER COOLER	ELKAY	LVRCTLBWSK		0'-0 1/2"		0'-2"	0'-2"	MODEL NUMBER: LVRCTLBWSK. BI-LEVEL COOLER FILTERED RIGORATED. 1.5 GPM. 1-1/2" NOMINAL DRAIN.
FCO	3	CLEANOUT	ZURN	Z1400-HD				0'-4"		LEVEL TROL. ADJUSTABLE FLOOR CLEANOUT. DURA-COATED CAST IRON BODY WITH GAS AND WATER TIGHT ABS TAPERED THREAD PLUG, AND ROUND EXTRA HEAVY-DUTY TOP ADJUSTABLE TO FINISHED FLOOR.
FD	1	FLOOR DRAIN	PER ARCH	PER ARCH				0'-2"	0'-2"	FLOOR DRAIN BY ARCHITECT. REFER TO ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION.
HB	3	HOSE BIBB	WOODFORD	B65		0'-0 3/4"				CONCEALED TYPE WALL HYDRANT COMPLETE BUT NOT LIMITED TO RECESSED WALL BOX WITH LOCKABLE DOOR. LOOSE TEE KEY. VACUUM BREAKER-BACKFLOW PREVENTER. POLISHED BRASS FINISH. AND 3/4" HOSE THREAD NOZZLE OR EQUAL.
L-1	2	LAVATORY	KOHLER	K-2006		0'-0 3/4"	0'-0 3/4"	0'-2"	0'-2"	"KINGSTON" WALL MOUNTED LAVATORY VITREOUS CHINA. 4" FAUCET CENTERS. TWO (2) BLADE HANDLE FAUCET. MOEN MODEL #840SRN. ANGLE STOPS. FLEXIBLE RISERS. CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT. OFFSET TAILPIECE. PROVIDE A.D.A. PROTECTIVE COVERS AT WATER PIPING, VALVES, AND DRAIN.
L-1A	2	LAVATORY (HANDICAPPED)	KOHLER	K-2006		0'-0 3/4"	0'-0 3/4"	0'-2"	0'-2"	"KINGSTON" WALL MOUNTED LAVATORY VITREOUS CHINA. 4" FAUCET CENTERS. TWO (2) BLADE HANDLE FAUCET. MOEN MODEL #840SRN. ANGLE STOPS. FLEXIBLE RISERS. CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT. OFFSET TAILPIECE. PROVIDE A.D.A. PROTECTIVE COVERS AT WATER PIPING, VALVES, AND DRAIN.
L-2	1	LAVATORY	BRADLEY	LVL1-1853-3700-BN-NONE-4-SIDIAN(FRUCTICA-S-SPICY)		0'-0 1/2"	0'-0 1/2"	0'-2"	0'-2"	VERGE WASH BASIN. LVL SERIES. CREST METRO. LINEA ZEN SERIES. 4" CENTERED 853-3700 VERGE FAUCET. 0.5 GPM. NONE FAUCET ACTIVATION. BN BRUSHED NICKEL. NONE POWER SUPPLY. NONE NO SOAP DISPENSER. ANTIFRACTIC COLOR. SUPPLY P-TRAP.
MS-1	1	MOP SINK	FIAT	TSB-100		0'-0 3/4"	0'-0 3/4"	0'-2"	0'-2"	24"X24"X12" ONE PIECE PRECAST TERRAZZO (3000 PSI COMPRESSIVE STRENGTH). 12" HIGH WITH 2" WIDTH MIN. SHOULDERS WITH STAINLESS STEEL CAPS AND 1/2" PITCH TOWARD INSIDE. DRAIN BODY SHALL BE STAINLESS STEEL. CAST INTEGRAL WITH CAULKED LEAD CONNECTION. STAINLESS STEEL THRESHOLD. FURNISH WITH CHROME PLATED WALL FAUCET WITH VACUUM BREAKER. INTERNAL STOPS. ADJUSTABLE WALL BRACE. WALL FLANGES. PALM HOOK. 3/4" HOSE THREAD ON SPOUT (FIAT 850-84). AND 80"X24" DIA PLAIN END REINFORCED RUBBER HOSE WITH HOSE BRACKET (FIAT 850-84). AND HOSE HANGERS (EAT 888-00).
RCP	1	RETURN CIRCULATING PUMP	BELL AND GOSSETT	FL-308		0'-1"	0'-1"			IN LINE CIRCULATOR. 5 GPM AT 5 FT HEAD. 112HP. 115V/1.4-F.L. AMPS FLANGE CONNECTIONS. ALL BRONZE CONSTRUCTION. FLEX COILED. OIL LUBRICATED MOTOR.
S-1	2	STAINLESS STEEL COUNTERTOP SINK	ELKAY	LRAD-1617-60-3		0'-0 1/2"	0'-0 1/2"	0'-2"	0'-2"	SINGLE COMPARTMENT STAINLESS STEEL SINK EQUAL TO ELKAY MODEL "LRAD-1718-60-3". SELF RIMMING. 17X16X8". 3 HOLES ON 4" CENTERS. 18 GAUGE. UNDERCOATED. COMPLETE WITH KINGSTON WATER FAUCET. 3 HOLES. MODEL #840SRN. NIBBY FUSION. 1.8 GPM STANDARD FAUCET. BRUSHED NICKEL FINISH. SINGLE HANDLE POST-TEMP PRESSURE BALANCED SHOWER TRIM WITH SHOWER HEAD FROM THE CHATEAU COLLECTION (LESS VALVE). 20 GAUGE. TYPE 304 STAINLESS STEEL CLASSIC BRUSHED NICKEL FINISH.
SH	1	SHOWER	MOEN	T837SNHCBN_8348EP150BN		0'-0 3/4"	0'-0 3/4"			MODEL NUMBER: ST-2029. FLUSHOMETER MODEL: ROYAL 111. VITREOUS CHINA. ADA COMPLIANT. ADA FLOOR MOUNTED. ADA COMPLIANT. GUPC GREEN CERTIFIED. CEC COMPLIANT. LEED COMPLIANT. 1.28 GPM. Exposed Water Closet Flushometer, for floor mounted or wall hung top spud bowls. BRUSHED NICKEL FINISH.
WC-1	2	WATER CLOSET	SLOAN	ST-2029		0'-1"		0'-4"	0'-2"	MODEL NUMBER: ST-2029. FLUSHOMETER MODEL: ROYAL 111. VITREOUS CHINA. HANDICAP. ADA COMPLIANT. ADA FLOOR MOUNTED. ADA COMPLIANT. GUPC GREEN CERTIFIED. CEC COMPLIANT. LEED COMPLIANT. 1.28 GPM. Exposed Water Closet Flushometer, for floor mounted or wall hung top spud bowls. BRUSHED NICKEL FINISH.
WC-1A	2	WATER CLOSET (HANDICAPPED)	SLOAN	ST-2029		0'-1"		0'-4"	0'-2"	MODEL NUMBER: ST-2029. FLUSHOMETER MODEL: ROYAL 111. VITREOUS CHINA. HANDICAP. ADA COMPLIANT. ADA FLOOR MOUNTED. ADA COMPLIANT. GUPC GREEN CERTIFIED. CEC COMPLIANT. LEED COMPLIANT. 1.28 GPM. Exposed Water Closet Flushometer, for floor mounted or wall hung top spud bowls. BRUSHED NICKEL FINISH.
WH-1	1	ELECTRIC WATER HEATER (TANK)	A.O. SMITH	DEL-50						SMITH MODEL #DEL-50 ELECTRIC RATED AT 208 VOLTS. SINGLE PHASE. 4.5 KW. SINGLE ELEMENT. GLASS LINED AND U.L. LISTED. 50 GALLONS. 3/4" TAPPING FOR RELIEF VALVE. INSTALLATION. ANODE ROD FOR CATHODIC PROTECTION. TEMPERATURE AND PRESSURE VALVE. DRAIN PAN. THERMOSTAT SET AT 110 DEG WITH TEMPERATURE CUTOFF. AND DRAIN VALVE LOCATED AT FRONT FOR EASY DE-SERVICING. TUE-TOP NON-ADJUSTABLE FLOOR CLEANOUT W/ DURA-COATED CAST IRON BODY. W/ GAS & WATER TIGHT ABS TAPERED THREAD PLUG. & ROUND SCORATED CAST IRON HEAVY-DUTY SECURED COVER & FRAME.
YCO	4	YARD CLEANOUT	ZURN	Z1402				0'-4"		
<b>Grand total: 27</b>										

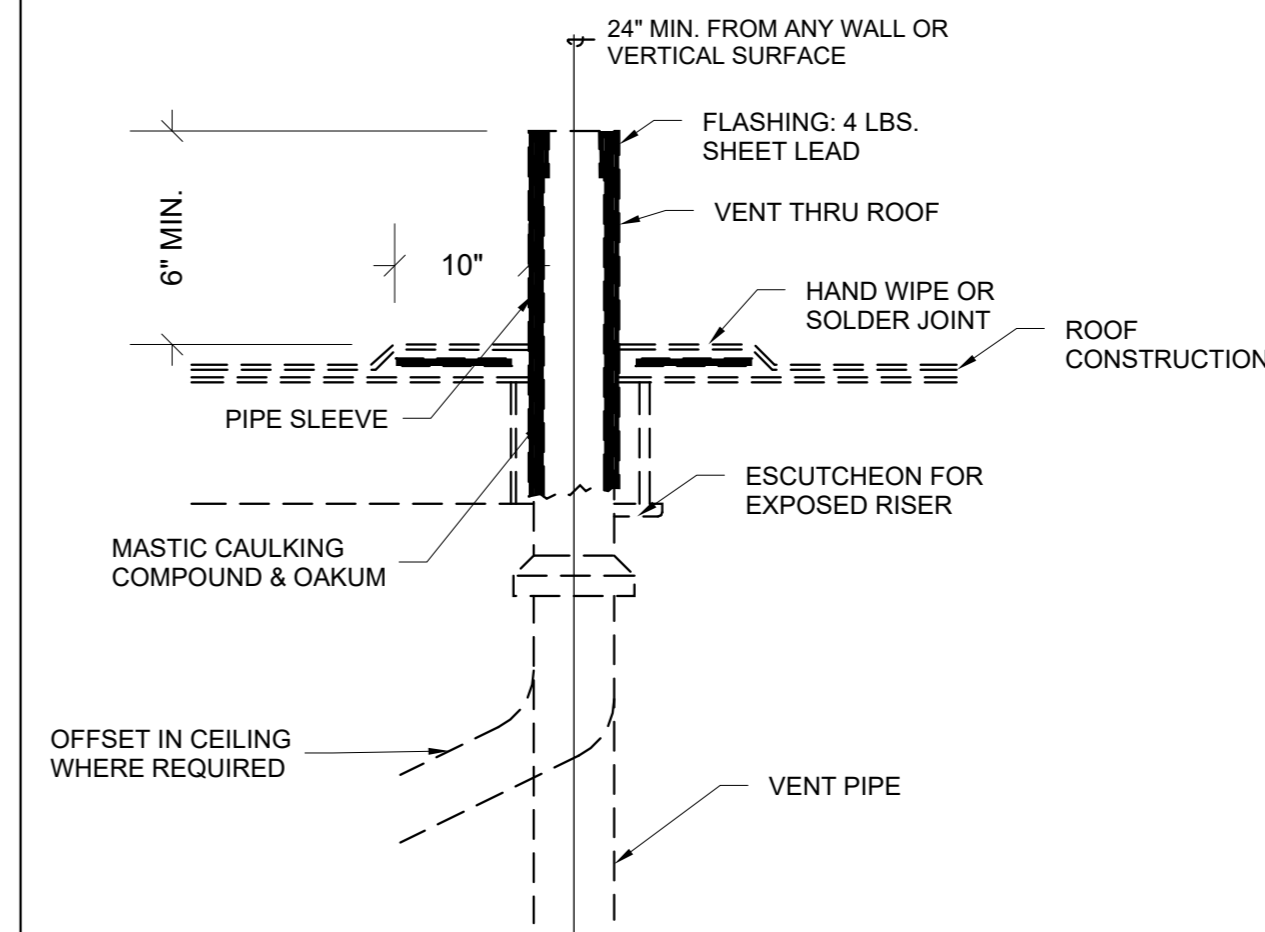
#### KEYED NOTES- RISER DIAGRAM DETAILS

- REFER TO PLUMBING FIXTURE SCHEDULE FOR SOIL OR WASTE ROUGH-IN PIPE SIZE. MINIMUM SOIL OR WASTE DRAIN LINE SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
- REFER TO PLUMBING FIXTURE SCHEDULE FOR SANITARY VENT ROUGH-IN PIPE SIZE. MINIMUM SANITARY VENT BRANCH SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
- REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE DRAIN ROUGH-IN PIPE SIZE. MINIMUM FIXTURE DRAIN AND TRAP SIZE FOR THIS FIXTURE.
- REFER TO PLUMBING FIXTURE SCHEDULE FOR WATER PIPING ROUGH-IN PIPE SIZE. MINIMUM WATER SUPPLY BRANCH SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.

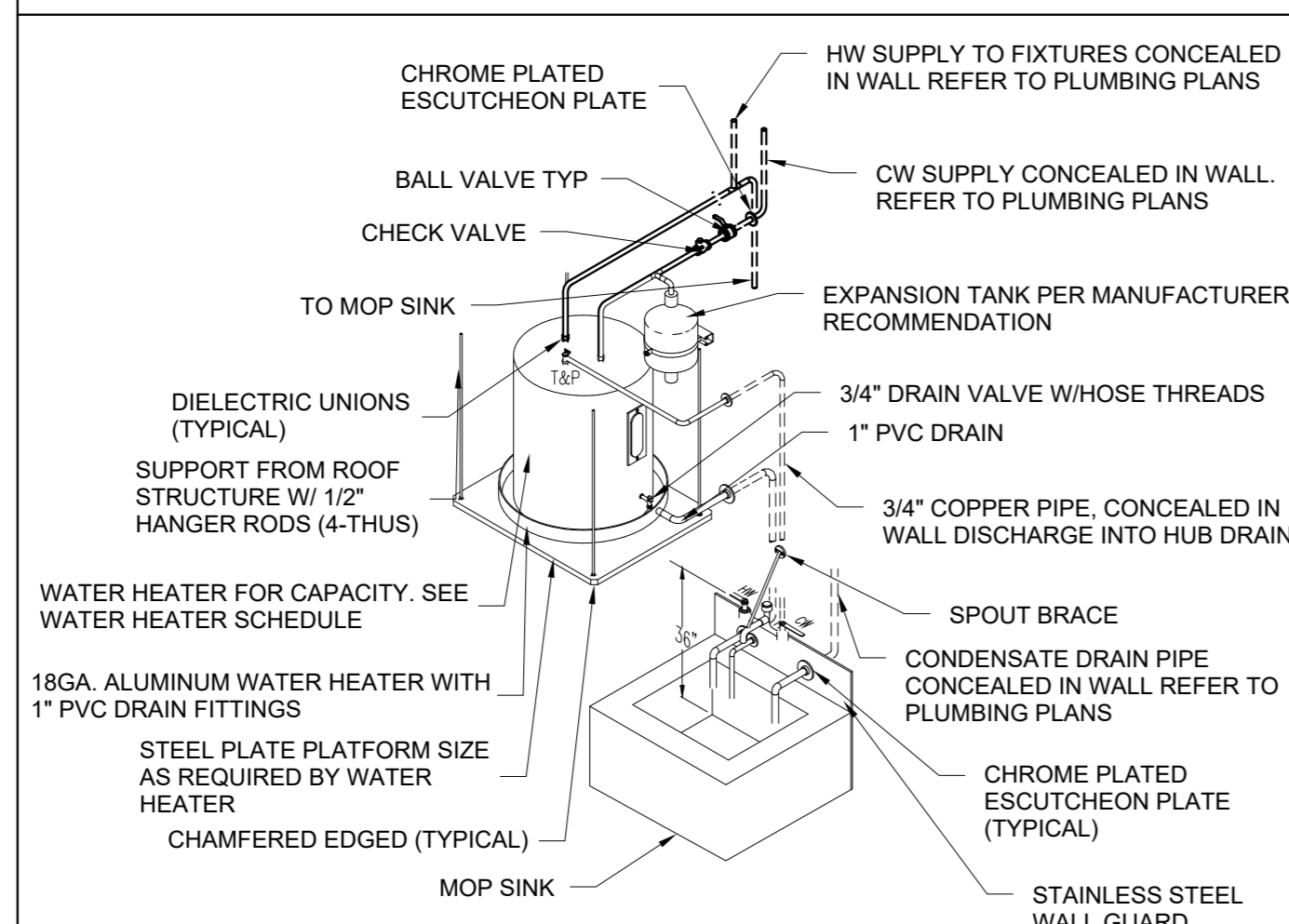
- PROVIDE AND INSTALL A WATER HAMMER ARRESTOR #ASSE1010 TO ALL HIGH FLOW DEVICES IN ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS.
- WALL CLEANOUTS SHALL BE PROVIDED AT ALL END OF BATTERY OR END OF BRANCH LINE FIXTURES AND WHERE REQUIRED BY PLUMBING CODE OFFICIALS TO ASSURE COMPLETE ACCESS TO ALL PORTIONS OF DRAIN.
- SANITARY VENT PIPES SHALL CONTINUE TO CEILING OR HEADER TOGETHER AT A MINIMUM 42" ABOVE FIN. FLOOR.



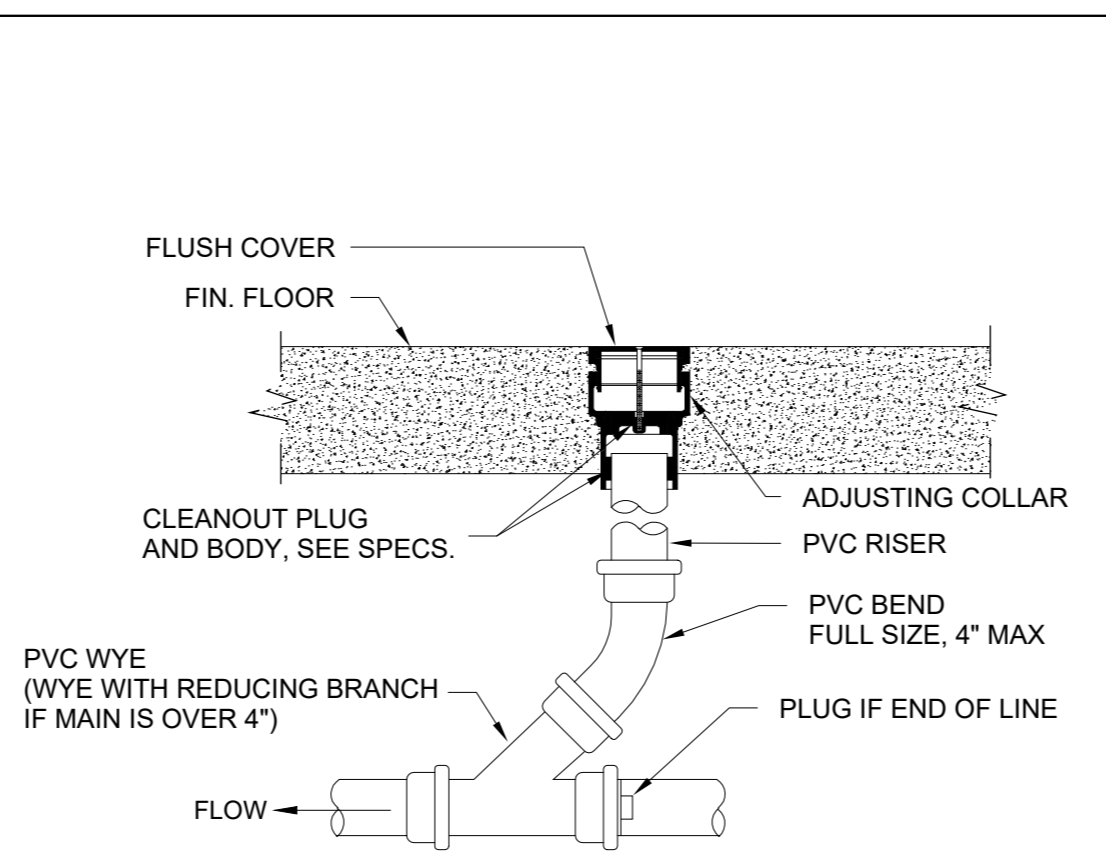
1 TYPICAL PLUMBING RISER DETAILS NOT TO SCALE



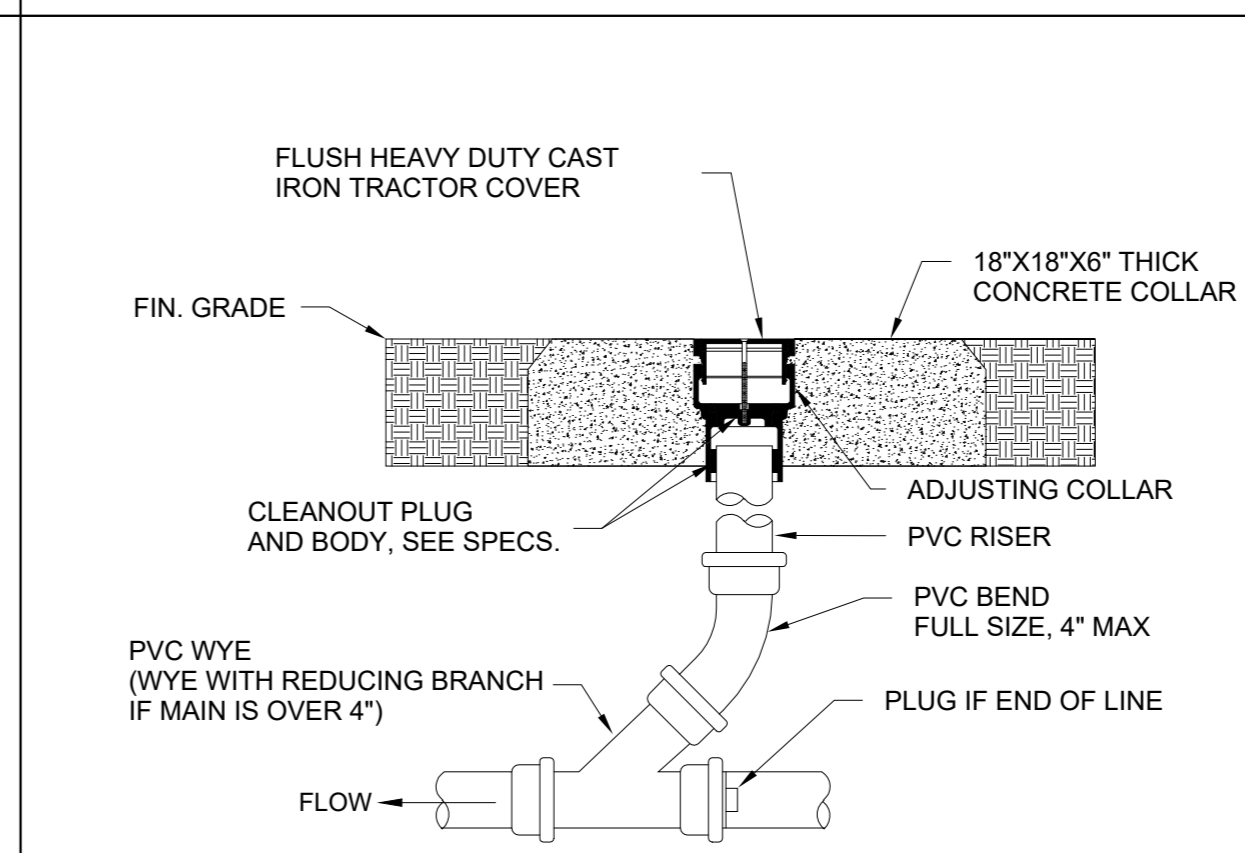
2 VENT THROUGH ROOF DETAIL NOT TO SCALE



3 WATER HEATER ABOVE MOP SINK NOT TO SCALE



4 FLOOR CLEANOUT DETAIL NOT TO SCALE



5 YARD CLEANOUT DETAIL NOT TO SCALE

0 ISSUE FOR PERMIT 01 JUN 2023  
No. DESCRIPTION DATE

**Luis Eduardo Madrigal**  
Professional Engineer  
114403  
01 JUN 2023

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22 02 10 01 JUN 2023  
Schedules/Details - Plumb

**P4.0**

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