



City of Hutto

Agenda

Historic Preservation Commission
Wednesday, September 22, 2021 at 7:00 PM
City Council Chambers

In accordance with the Texas Open Meetings Act this meeting agenda is posted for public information, continuously, for at least 72 hours prior to the scheduled time of the meeting on the bulletin board located on the exterior wall of the City Hall building at 500 West Live Oak, Hutto, Texas. This meeting agenda is also accessible via the Internet at huttotx.gov

1. CALL SESSION TO ORDER

2. ROLL CALL

3. PUBLIC COMMENT

4. AGENDA ITEMS

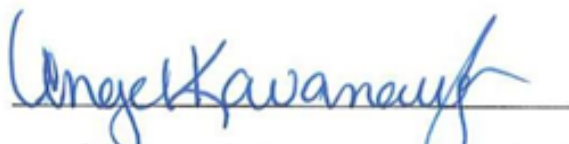
- 4.1. Consideration and possible action on the meeting minutes for the regular scheduled Historic Preservation Commission meeting held on August 24, 2021.
- 4.2. Consideration and possible action on a Certificate of Appropriateness for demolition of Riverhorse Academy School Building at 200 College Street.
- 4.3. Consideration and possible action on the Certificate of Appropriateness for work on the rear facades of 105 and 107 East, including new gutters and underground sump pump, addition of windows and doors, door awnings and brick facade work on the rear elevations. This request also includes an up to 20' expansion on the rear facade of 105 East.
- 4.4. Update, discussion and possible action pursuant to the Hutto Historical Writing Committee.

5. ADJOURNMENT

6. CERTIFICATION

I certify that this notice of the September 22, 2021 Hutto Historic Preservation Commission meeting was posted on the City of Hutto website and the City Hall bulletin board of the City of Hutto on September 17, 2021 at 5:00 P.M.




Angel Kavanaugh, Management Assistant

The City of Hutto is committed to comply with the Americans Disability Act. The Hutto City Council Chamber is wheelchair accessible. Request for reasonable special accommodations must be made

48 hours prior to the meeting. Please email the City Secretary's office at City.Secretary@huttox.gov or call (512) 759-4033 for assistance.

AGENDA ITEM REPORT



To: Historic Preservation Commission
Subject: Consideration and possible action on the meeting minutes for the regular scheduled Historic Preservation Commission meeting held on August 24, 2021.
Meeting: Wednesday, September 22, 2021
Department: Development Services
Staff Contact:

BACKGROUND INFORMATION:

SUMMARY OF REQUEST:

STAFF REVIEW:

FINANCIAL IMPACT:

POLICY IMPLICATIONS:

ATTACHMENTS:

1. Historic Preservation Commission Meeting Minutes 8.24.2021



City of Hutto

Minutes

**Historic Preservation Commission
Tuesday, August 24, 2021 at 7:00 PM
City Council Chambers**

1. CALL SESSION TO ORDER

7:00 PM

2. ROLL CALL

DeAnne Worley, Jon Stephenson, Robert Lykins and Travis Allen were in attendance. Curtis Orton was absent.

3. PUBLIC COMMENT

Resident spoke of Trophies, Banners etc at the RR depot and wanting this to be removed and preserved, Mike fowler spoke of preserving those historic items through photos as well.

4. AGENDA ITEMS

- 4.1. Consideration and possible action on the meeting minutes from the regular scheduled Historic Preservation Commission meeting held on July 27,2021.

Commissioner Robert Lykins? Made a motion to accept the the meeting minutes from the regular scheduled Historic Preservation Commission meeting held on July 27,2021 as written, additional information provided by Rose McMillin had been added to minutes after posting seconded by Commissioner Jon Stephenson? Motion passed 4 Ayes to 0 Nays.

- 4.2. Consideration and possible action on the RR depot building and prospects of securing it from Hutto ISD to the City for the purpose of making it into a museum, civic center, senior center, or similar and engaging SWAT(Seniors with Available Time) to investigate funding sources.

Commissioner Robert Lykins made a motion to start discussion on agenda item 4.2, seconded by Commissioner DeAnne Worley. Agenda item was opened to discussion. Commissioner Robert Lykins spoke of a few options to look into on this item. 1. Funding and grants 2. State of Texas funding for Historic Preservation. 3. The National trust for Preservation. Looking to involve SWAT (Seniors With Available Time) to possibly do the legwork on funding. Director Ashley Lumpkin stated that Asbestos abatement will need to be done prior to any advancement in this project. Commissioner Robert Lykins asked about the possibility of having a staff member work with SWAT to start this process. Ashley Lumpkin also stated that the 2021 Comp plan will also involve Historic District and might help with resources. We will keep channels open with HPC, HISD and Staff.

A resident spoke on his concern whether the building was structurally sound. Spoke of relocating the RR depot to a piece of Parkland at Durango Farms. Commissioner Robert Lykins made a motion to approve securing it from Hutto ISD to the City for the purpose of making it into a museum, civic center, senior center, or similar and engaging SWAT

(Seniors with Available Time) to investigate funding sources. Seconded by Commissioner DeAnne Worley. Motion passed 4 Ayes to 0 Nays

- 4.3. Update, discussion and possible action pursuant to the Hutto Historical Writing Committee.

Commissioner Jon Stephenson? addressed the meeting attendants, stated he has spoken to the Fowlers, the Hollands and the Clarks, asked if a city staff member could be on this committee, staff recommended Kristi Robich as a possibility, Rose McMillin would like to be on this committee and a volunteer from Cathy Cooper came in as well.

Requested that this item be kept on the agenda moving forward. No action was taken.

Commissioner Robert Lykins spoke of a point of interest in WASP (Women Airforce Service Pilots) and expressed interest in doing more research, trying to see if anyone was from Hutto and possible bringing an exhibit to Hutto High School. Commissioners stated that they would be interested in further research.

5. ADJOURNMENT

7:43 PM

6. CERTIFICATION

I certify that this notice of the Hutto Historic Preservation Commission meeting was posted on the City of Hutto website and the City Hall bulletin board of the City of Hutto on August 20, 2021 at 5:00 P.M.

Historic Preservation Commission Chair

AGENDA ITEM REPORT



To: Historic Preservation Commission
Subject: Consideration and possible action on a Certificate of Appropriateness for demolition of Riverhorse Academy School Building at 200 College Street.
Meeting: Wednesday, September 22, 2021
Department: Development Services
Staff Contact: Ashley Lumpkin

BACKGROUND INFORMATION:

Hutto ISD is proposing a major renovation at the Riverhorse Academy. There was a meeting on site with a walkthrough held in September of 2020. At that meeting there was a presentation by Pfluger Architects outlining the master plan for the entire site. This Certificate of Appropriateness request is for demolition of the school building. The applicant has provided additional information that was requested at the July meeting.

SUMMARY OF REQUEST:

There was a Special Called Historic Preservation Commission (HPC) on September 9, 2020 held at 200 College Street to discuss the proposed project. The ISD submitted for the Certificate of Appropriateness for a remodel of the gym, which includes the request to demolish the entirety of the existing school building. This is part of the master plan for the site. Per Section 10.204.2 a Certificate of Appropriateness is approved from 180 days from the date of approval by the Historic Preservation Commission.

A demolition permit is a separate application that would be reviewed by the Building Department but requires the HPC to make a final decision as it is within the 1911 historic district. Section 10.203.6.3 states the demolition request is based on the criteria that "The structure or site is not designated as a historic structure by any government agency. If it is designated, it must be shown the building cannot be saved, and the demolition was authorized subject to federal, state, county or local agency processes and rules." It is important to note a demolition permit is valid for 90 days from approval and must take place over a 30 day period, or 90 days for a demolition in which a building is deconstructed for the purpose of reusing or recycling materials.

10.203.5.2 Applicability A certificate of appropriateness is required for the following changes to the exterior of a structure with designated or pending historic designation:

- Visible change to the exterior of a designated contributing structure.
- Addition to a designated contributing structure in a historic district.
- Demolition or relocation of a designated contributing structure. The Historic Preservation Commission may require the owner to conform to a salvage plan as a condition for approving a certificate of appropriateness.
- Construction of a new, detached structure in a historic district. Work not involving a change to material, configuration, dimension, or outward appearance will be considered in-kind repair and does not require a certificate of appropriateness.

AGENDA ITEM REPORT



A Certificate of Appropriateness is evaluated, in part, to the following criteria (10.203.5.3):

Most structures and property change over time; changes that acquired historic significance in their own right will be kept and preserved.

Distinctive features, finishes and construction techniques or examples of craftsmanship characterizing a structure or property will be preserved in the limits permitted by applicable regulations

Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature must match the old in design, color, texture and other visual qualities; and, where possible, materials, if they meet other applicable codes and ordinances. Replacement of missing features will be proven by documentary, physical or pictorial evidence

New additions, exterior alterations, or related new construction will not destroy historic materials characterizing the structure or property. New work will be differentiated from the old and will be compatible with the massing, size, scale and architectural features to protect the historic integrity of the structure or property and its environment. • New additions and adjacent or related new construction will be undertaken in a way that the essential form and integrity of the historic structure or property and its environment will be unimpaired if it is removed in the future. • New construction taking place after demolition or removal of a structure or property in an historic district will conform to the design guidelines for the district.

STAFF REVIEW:

At the September 9, 2020 HPC meeting, the board and staff both requested that the Riverhorse Academy building not be demolished until the plans for the new building were approved by the Historic Preservation Commission. Therefore, staff recommends denial of the demolition of the Riverhorse Academy Building.

FINANCIAL IMPACT:

POLICY IMPLICATIONS:

ATTACHMENTS:

1. 20-038_Gym_Plans
2. Structural Condition Assessment

HUTTO ISD HUTTO ISD GYM RENOVATION

302 COLLEGE STREET HUTTO, TX 78634

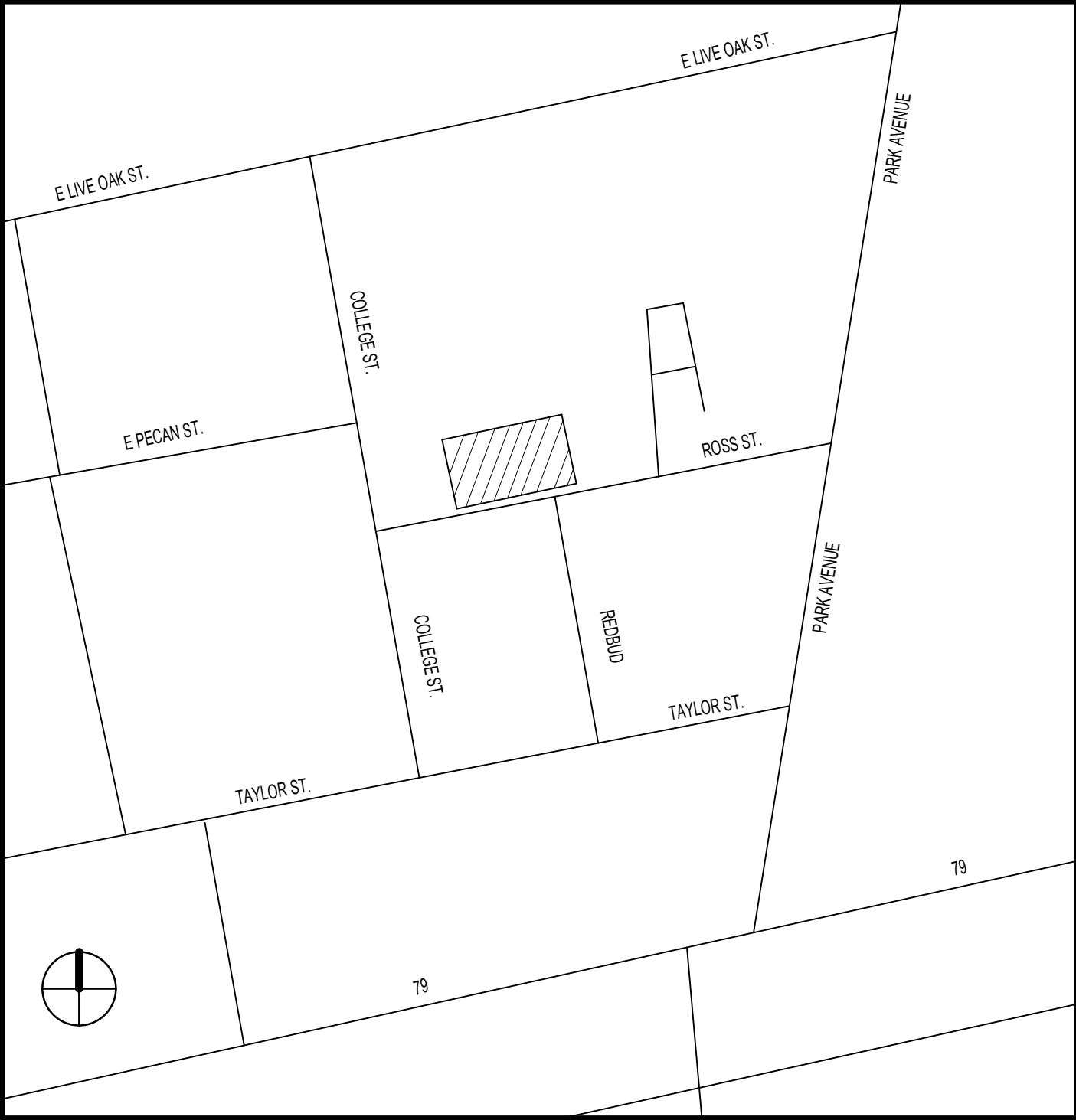
INDEX OF DRAWINGS

00 GENERAL	
G0.00	COVER
G0.01	TAS
G0.02	TAS
G0.03	CODE PLAN
01 CIVIL	
01 OF 14	CIVIL COVER
02 OF 14	GENERAL NOTES
03 OF 14	EXISTING CONDITIONS & DEMOLITION PLAN
04 OF 14	EROSION SEDIMENTATION AND TREE PROTECTION PLAN
05 OF 14	EROSION SEDIMENTATION CONTROL DETAILS
06 OF 14	OVERALL SITE PLAN
07 OF 14	SITE PLAN
08 OF 14	GRADING PLAN
09 OF 14	EXISTING CONDITIONS DRAINAGE MAP
10 OF 14	PROPOSED CONDITIONS DRAINAGE MAP
11 OF 14	STORM SEWER LAYOUT
12 OF 14	GENERAL DETAILS
13 OF 14	UTILITY PLAN
14 OF 14	UTILITY DETAILS
04 ARCHITECTURAL DEMO	
A02.01	ARCHITECTURAL DEMOLITION - FLOOR PLAN
04 STRUCTURAL	
S1.01	GENERAL NOTES, ABBREVIATIONS AND SYMBOLS
S2.01	GYM FLOOR PLAN
S2.02	GYM ROOF PLAN
S2.01	REPAIR DETAILS
05 ARCHITECTURAL	
A0.00	SYMBOLS & ABBREVIATIONS
A1.00	ARCHITECTURAL SITE PLAN
A2.01	FLOOR PLAN
A5.01	ROOF PLAN
A6.01	EXTERIOR ELEVATIONS & BUILDING SECTIONS
A7.10	WALL SECTIONS
A8.00	DOOR SCHEDULE
A8.00	INTERIOR FINISH PLAN & SCHEDULE
A8.01	INTERIOR ELEVATIONS
A10.01	REFLECTED CEILING PLAN
06 PLUMBING	
P001	SCHEDULES, NOTES, AND LEGENDS - PLUMBING
P102	DETAILS - PLUMBING
P201	FLOOR PLAN - PLUMBING
07 MECHANICAL	
M101	SCHEDULES, NOTES, AND LEGENDS - MECHANICAL
M102	SCHEDULES - MECHANICAL
M103	DETAILS - MECHANICAL
M201	FLOOR PLAN - MECHANICAL
08 ELECTRICAL	
E100	SITE PLAN - ELECTRICAL
E101	SCHEDULES, NOTES, AND LEGENDS - ELECTRICAL
E102	SCHEDULES - ELECTRICAL
E103	RISE DIAGRAM - ELECTRICAL
E201	FLOOR PLAN - LIGHTING
E301	FLOOR PLAN - POWER
09 TECHNOLOGY	
T000	TECHNOLOGY - INDEX SHEET
T010	TECHNOLOGY - SITE PLAN
T101	TECHNOLOGY - 01 FLOOR PLAN
T500	TECHNOLOGY DETAILS
T501	TECHNOLOGY DETAILS
T600	SECURITY DETAILS
T601	SECURITY DETAILS
T700	AV DETAILS
T701	AV DETAILS
T702	AV DETAILS

BOARD OF TRUSTEES

MS. BILLIE LOGIUDICE	PRESIDENT
MR. TERRENCE OWENS	VICE PRESIDENT
MS. MORGAN HUBBARD	SECRETARY
MR. PHILLIP BOUTWELL	BOARD MEMBER
MR. EDGAR PADILLA	BOARD MEMBER
MR. FELIX CHAVEZ	BOARD MEMBER
MS. SHARA TURNER	BOARD MEMBER
DR. CELINA ESTRADA THOMAS	SUPERINTENDENT
MR. HENRY GIDEON	ASSISTANT SUPERINTENDENT OF OPERATIONS
MR. BRANDON CARDWELL	DIRECTOR OF CONSTRUCTION

LOCATION MAP



ALTERNATE BID ITEMS

ALTERNATE 1
ALTERNATE 2
ALTERNATE 3
ALTERNATE 4
ALTERNATE 5
ALTERNATE 6
ALTERNATE 7
ALTERNATE 8

ALTERNATE 9
ALTERNATE 10

REPOINT EXTERIOR BRICK VENEER AT GYMNASIUM. MATCH EXISTING GROUT
PROVIDE AND INSTALL GUTTERS AND DOWNSPOUTS AT GYMNASIUM AS SHOWN ON PLANS
REPAIR SOFT SPOTS AT EXISTING WOOD GYMNASIUM FLOOR AND REFINISH FLOOR. MATCH EXISTING COURT LINES AND MARKINGS
PROVIDE AND INSTALL TECTUM ACOUSTICAL PANELS IN GYMNASIUM AS SHOWN ON PLANS AND SPECIFIED
IN LIEU OF TYING INTO EXISTING SEWER LINE, REPLACE EXISTING SEWER LINE FROM GYMNASIUM BUILDING TO THE EXISTING TAP IN THE PUBLIC SEWER LINE
IN LIEU OF TYING INTO THE EXISTING WATER LINE, REPLACE THE WATER LINE FROM THE GYMNASIUM BUILDING TO THE EXISTING WATER METER
PROVIDE AND INSTALL PROJECTION SCREEN, PROJECTOR, AND RELATED EQUIPMENT PER TECHNOLOGY PLANS AND SPECIFICATIONS
REFINISH EXISTING WOOD BLEACHERS, CEILINGS BELOW BLEACHERS AT ENTRANCE DOORS, AND WOOD WALL PANELING ON BLEACHER ENDS.
REFINISHING SHALL INCLUDE SANDING, STAINING, AND SEALING ALL SURFACES. PATCHING AND REPAIR OF DAMAGED PANELING SHALL BE INCLUDED IN THIS PRICE
AT EAST WALL, IN LIEU OF PAINTING, PATCH IN SALVAGED BRICK AT DAMAGED OR MISSING VENEER. REMOVE EXISTING PAINT FROM NEWLY EXPOSED BRICK
AT NORTH AND WEST WALLS, IN LIEU OF PAINTING, PATCH IN SALVAGED BRICK AT DAMAGED OR MISSING VENEER. REMOVE EXISTING PAINT FROM NEWLY EXPOSED BRICK

TECHNOLOGY/SECURITY

TRUE NORTH CONSULTING GROUP

13284 POND SPRINGS ROAD #304
AUSTIN, TX 78729
P: P: 512-451-5445

WWW.TNCG.COM

MEP ENGINEER

HENDRIX CONSULTING ENGINEERS

115 EAST MAIN STREET
ROUND ROCK, TX 78664
P: 512-218-0060
F: 512-218-0077

STRUCTURAL ENGINEER

DATUM ENGINEERS

BUILDING 1, 8140 N MOPAC EXPY #120
AUSTIN, TX 78759
P: 512-469-9490
F: Fax
WWW.DATUMENGINEERS.COM

CIVIL ENGINEER

JAMISON CIVIL ENGINEERING LLC

13812 RESEARCH BLVD. #B-2
AUSTIN, TX 78750
P: 737-484-0880
F: Fax
Web URL

PFLUGER ARCHITECTS

PFLUGER ARCHITECTS

209 E RIVERSIDE DRIVE
AUSTIN, TX 78704
P: 512-476-4040
F: 512-476-4289
WWW.PFLUGERARCHITECTS.COM

pfluger

office: 512.476.4040 | fax: 512.476.4289
209 E Riverside Drive Austin, Texas 78704
pflugerarchitects.com

HUTTO ISD GYM RENOVATION

302 COLLEGE STREET HUTTO, TX 78634

HUTTO ISD

200 COLLEGE STREET
HUTTO, TEXAS 78634



DATE: 04/05/2021

PROJECT NO. 20-038
DATE: 04/05/2021
DRAWN BY: DRW CHECKED BY: CHK.
REVISIONS:
Date Description

BID SET

G0.00
COVER

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 OR CONSTRUCTION PROJECTS THAT WOULD LIMIT ACCESSIBILITY. THE SCOPE OF THIS SECTION IS LIMITED AND THE INDIVIDUALS WORKING ON THE PROJECT SHOULD FAMILIARIZE THEMSELVES WITH TEXAS ACCESSIBILITY STANDARD (TAS) AND AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADA) 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 12167 AUSTIN, TEXAS 78711 (800) 803-8022 TDD: (800) 735-999 HOUSTON, TEXAS 77019 WWW.LICENSE.STATE.TX.US	ADAAG: DEPT. OF HEALTH & HUMAN SERVICES TECHNICAL ASSISTANCE CENTER FOR REGION VI 2023 S. GREGORY STREET, SUITE 1000 HOUSTON, TEXAS 77019 ADA HOTLINE: (800) 948-4232 TDD: (713) 535-6178 OR (713) 520-0232 FAX: (713) 535-5216
---	---

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 (ADA)

IN ACCORDANCE WITH ACCESSIBILITY REQUIREMENTS, THE FOLLOWING STANDARDS SHALL BE INCLUDED WHEN BOOING ON PROJECTS 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 COMFLICTS WITH ANY PORTION OF THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT. IN THE EVENT 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 (WARRIORS, SIMS, 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 APPEARANCE. 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

- ALL DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY TOLERANCES EXCEPT WHERE THE REQUIREMENT IS STATED AS A RANGE WITH SPECIFIC MINIMUM AND MAXIMUM POINTS
- UNLESS SPECIFICALLY STATED OTHERWISE, FIGURES ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

CHAPTER 2: SCOPING REQUIREMENTS

TAS SECTION 201 - SCOPE

- 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
 - 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 202.1
 - 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
 - AN ALTERATION THAT DECREASES THE USABILITY OF OR ACCESS TO AN AREA OR FACILITY BELOW THE REQUIREMENTS FOR NEW CONSTRUCTION AT THE TIME OF THE ALTERATION IS PROHIBITED
 - 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
 - ALTERATIONS THAT AFFECT THE USABILITY OF OR ACCESS TO AN AREA CONTAINING A PRIMARY FUNCTION SHALL BE MADE SO AS TO ENSURE USAGE BY INDIVIDUALS WITH DISABILITIES

TAS SECTION 204 - PROTRUDING OBJECTS

- WITHIN AREAS OF ACCESSIBLE ELEMENTS, ACCESSIBLE ROUTES, AND IN ACCESSIBLE ROOMS AND SPACES SHALL COMPLY WITH 309
- WITHIN AREAS OF SPORTS ACTIVITY, PROTRUDING OBJECTS ON CIRCULATION PATHS SHALL NOT BE REQUIRED TO COMPLY WITH 307
- 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

- OPERABLE PARTS ON ACCESSIBLE ELEMENTS, ACCESSIBLE ROUTES, AND IN ACCESSIBLE ROOMS AND SPACES SHALL COMPLY WITH 309
- OPERABLE PARTS INTENDED FOR USE ONLY BY SERVICE OR MAINTENANCE PERSONNEL SHALL NOT BE REQUIRED TO COMPLY WITH 309
- ELECTRICAL OR COMMUNICATION RECEPTACLES SERVING A DEDICATED USE SHALL NOT BE REQUIRED TO COMPLY WITH 309

TAS SECTION 206 - ACCESSIBLE ROUTES

- 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
- AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE
- AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT EACH STORY AND MEZZANINE IN MULTISTORY BUILDINGS AND FACILITIES
- IN RESTAURANTS AND CAFETERIAS, AN ACCESSIBLE ROUTE SHALL BE PROVIDED TO ALL DINING AREAS, INCLUDING RAISED OR SUNKEN DINING AREAS, AND OUTDOOR DINING AREAS
- WHERE A CIRCULATION PATH DIRECTLY CONNECTS A PERFORMANCE AREA TO AN ASSEMBLY AREA, AN ACCESSIBLE ROUTE SHALL BE PROVIDED TO 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

- MEANS OF EGRESS SHALL COMPLY WITH SECTION 1003.2.13 OF THE INTERNATIONAL BUILDING CODE (2000 EDITION AND 2001 SUPPLEMENT) OR SECTION 1007 OF THE INTERNATIONAL BUILDING CODE (2000 EDITION)
- STANDBY POWER SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1002.13.4.3 OF THE INTERNATIONAL BUILDING CODE (2000 EDITION AND 2001 SUPPLEMENT) OR SECTION 1007.5 OF THE INTERNATIONAL BUILDING CODE (2000 EDITION) TO SERVE AS A PART OF AN ACCESSIBLE MEANS OF EGRESS

TAS SECTION 208 - PARKING SPACES

- 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.

TABLE 208.2 PARKING SPACES				
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	20 PLUS 1 FOR EACH 100 OR FRACTION THEREOF, OVER 100		
151 TO 200	6			

TAS SECTION 208.2.1 - PARKING SPACES

- FOR EVERY SIX OR FRACTION OF SIX PARKING SPACES REQUIRED BY 208.2 TO COMPLY WITH 502, AT LEAST ONE SHALL BE A PARKING SPACE COMPLYING WITH 502

TAS SECTION 208.3 - LOCATION

- 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 SPACES 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

- PASSENGER LOADING ZONES, EXCEPT THOSE REQUIRED TO COMPLY WITH 208.2.2 AND 208.2.3, SHALL PROVIDE AT LEAST ONE PASSENGER LOADING ZONE COMPLYING WITH 501 AND ENERGY CONTROLS 100 LINEAR FEET (30M) OF LOADING ZONE SPACE, OR FRACTION THEREOF
- 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 502.2

TAS SECTION 210 - STAIRWAYS

- 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

- NO FEWER THAN TWO DRINKING FOUNTAINS SHALL BE PROVIDED
- 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 802.1 THROUGH 802.2 AND 50 PERCENT OF THE TOTAL NUMBER OF DRINKING FOUNTAINS PROVIDED SHALL COMPLY WITH 802.7

TAS SECTION 212 - KITCHENS, KITCHENETTES, AND SIMS

- KITCHENS AND KITCHENETTES SHALL COMPLY WITH 804
- WHERE SIMS ARE PROVIDED, AT LEAST 10 PERCENT, BUT NO FEWER THAN ONE, OF EACH TYPE PROVIDED IN EACH ACCESSIBLE ROOM OR SPACE SHALL COMPLY WITH 606

TAS SECTION 213 - TOILET FACILITIES AND BATHING FACILITIES

- WHERE TOILET FACILITIES AND BATHING FACILITIES ARE PROVIDED, THEY SHALL COMPLY WITH 213.1 TOILET FACILITIES AND BATHING FACILITIES SHALL BE PROVIDED ON A STORY CONNECTED BY A STAIRWAY TO AN ACCESSIBLE ENTRANCE
- TOILET RESTROOMS AND BATHING ROOMS SHALL COMPLY WITH 603
- WHERE MULTIPLE SINGLE-TOILET TOILET ROOMS ARE CLUSTERED AT A SINGLE LOCATION, NO MORE THAN 50% OF THE SINGLE USE TOILET ROOMS FOR EACH USE AT EACH CLUSTER SHALL BE REQUIRED TO COMPLY WITH 603
- UNLESS TOILET ROOMS AND BATHING ROOMS SHALL CONTAIN NOT MORE THAN ONE LAVATORY, AND TWO WATER CLOSETS WITHOUT URINALS OR ONE WATER CLOSET AND ONE URINAL. UNLESS BATHING ROOMS CONTAIN ONE SHOWER OR ONE SHOWER AND ONE BATHTUB, ONE LAVATORY, AND ONE WATER CLOSET. DOORS TO UNSEX RESTROOMS AND BATHING ROOMS SHALL HAVE PRIVACY LATCHES

TAS SECTION 214 - WASHING MACHINES AND CLOTHES DRYERS

- WHERE 3 OR FEWER WASHING MACHINES ARE PROVIDED, AT LEAST ONE SHALL COMPLY WITH 611. WHERE MORE THAN 3 WASHING MACHINES ARE PROVIDED, AT LEAST TWO SHALL COMPLY WITH 611
- WHERE 3 OR FEWER CLOTHES DRYERS ARE PROVIDED, AT LEAST ONE SHALL COMPLY WITH 611. WHERE MORE THAN 3 CLOTHES DRYERS ARE PROVIDED, AT LEAST TWO SHALL COMPLY WITH 611

TAS SECTION 215 - FIRE ALARM SYSTEMS

- ALARMS IN PUBLIC AREAS THAT ARE COMMON USE AREAS SHALL COMPLY WITH 702
- 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

- 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 WITH 216
- SIGNS REQUIRED BY SECTION 1002.13.5.4 OF THE INTERNATIONAL BUILDING CODE (2000 EDITION) OR SECTION 1017.4 OF THE INTERNATIONAL BUILDING CODE (2000 EDITION) TO PROVIDE DIRECTIONS IN AREAS OF REFUGE SHALL COMPLY WITH 703.3
- DIRECTIONAL SIGNS REQUIRED BY SECTION 1002.13.6 OF THE INTERNATIONAL BUILDING CODE (2000 EDITION) OR SECTION 1017.7 OF THE INTERNATIONAL BUILDING CODE (2000 EDITION) TO PROVIDE DIRECTIONS TO ACCESSIBLE MEANS OF EGRESS SHALL COMPLY WITH 703.5
- WHERE NOT ALL ENTRANCES COMPLY WITH 404, ENTRANCES COMPLYING WITH 404 SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 703.2.1. DIRECTIONAL SIGNS COMPLYING WITH 703.2 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

- 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

- IN EACH ASSEMBLY AREA WHERE AUDIBLE COMMUNICATION IS INTEGRAL TO THE USE OF THE SPACE AN ASSISTIVE LISTENING SYSTEM SHALL BE PROVIDED
- WHERE ALL SEATS IN AN ASSEMBLY AREA ARE SERVED BY AN INTRODUCTORY LOOP ASSISTIVE LISTENING SYSTEM, THE MINIMUM NUMBER OF RECEIVERS REQUIRED BY TABLE 219.3 TO BE HEARING AND COMPLIABLE SHALL NOT BE REQUIRED TO BE PROVIDED

TAS SECTION 220 - AUTOMATIC TELLER MACHINES AND FARE MACHINES

- 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 SIGNS ARE PROVIDED FOR ENVELOPES, WASTE PAPER, OR OTHER PURPOSES, AT LEAST ONE OF EACH TYPE SHALL COMPLY WITH 611

TAS SECTION 221 - ASSEMBLY AREAS

- ASSEMBLY AREAS SHALL PROVIDE WHEELCHAIR SPACES, COMPANION SEATS, AND DESIGNATED AISLE SEATS COMPLYING WITH 221.1 AND 802
- WHEELCHAIR SPACES COMPLYING WITH 802.1 SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 221.2.1.1
- WHEELCHAIR SPACES SHALL BE AN INTEGRAL PART OF THE SEATING PLAN
- 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 SPECTATORS WITH CHOICES OF SEATING LOCATIONS OR VIEWING ANGLES EQUAL TO OR BETTER THAN SEATING LOCATIONS AND VIEWING ANGLES OF OTHER SPECTATORS
- 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 ROUTES

TABLE 221.2 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 900	8 PLUS 1 FOR EACH 150, OR FRACTION THEREOF, OVER 900
51 TO 150	4	901 AND OVER	8 PLUS 1 FOR EACH 150, OR FRACTION THEREOF, OVER 900
151 TO 300	5		

TAS SECTION 222 - DRESSING, FITTING, AND LOCKER ROOMS

- 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 802
- WHERE COAT HOOKS OR SHELVES ARE PROVIDED, DRESSING FITTING OR LOCKER ROOMS MAY HAVE INDIVIDUAL COMPARTMENTS, AT LEAST ONE OF EACH TYPE SHALL COMPLY WITH 803.3. 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
 - IN A LICENSED MEDICAL CARE 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 223.1. 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

- TRANSIENT LODGING FACILITIES SHALL PROVIDE GUEST ROOMS IN ACCORDANCE WITH 224.1. 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 806
- ENTRANCES, DOORS, AND DOWNHALLS 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
- 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

- WHERE STORAGE IS PROVIDED, AT LEAST ONE OF EACH TYPE SHALL COMPLY WITH 811
- WHERE LOCKERS ARE PROVIDED, AT LEAST 5%, BUT NO FEWER THAN ONE OF EACH TYPE, SHALL COMPLY WITH 811
- TAS SECTION 226 - DINING SPACES AND WORK SURFACES
 - WHERE DINING SPACES 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 904.1. IN ADDITION, WHERE WORK SURFACES ARE PROVIDED FOR USE BY OTHER THAN EMPLOYEES, AT LEAST 5% SHALL COMPLY WITH 904.2

TAS SECTION 227 - SALES AND SERVICE

- WHERE PROVIDED, CHECK-OUT AISLES, SALES COUNTERS, SERVICE COUNTERS, FOOD SERVICE LINES, QUEUES, AND WAITING LINES SHALL COMPLY WITH 907 AND 904
- 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
- QUEUES AND WAITING LINES SERVING COUNTERS OR CHECK-OUT AISLES REQUIRED TO COMPLY WITH 904.3 OR 904.4 SHALL COMPLY WITH 402

TAS SECTION 228 - DEPOSITORIES, VENDING MACHINES, CHANGE MACHINES, MAIL BOXES

- WHERE PROVIDED, AT LEAST ONE OF EACH TYPE OF DEPOSITORY, VENDING MACHINE, CHANGE MACHINE, AND FUEL DISPENSER SHALL COMPLY WITH 309
- 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

- 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 A BUILDING OR FACILITY TO BE OPERABLE SHALL COMPLY WITH 309

TAS SECTION 230 - TWO-WAY COMMUNICATION SYSTEMS

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

TAS SECTION 230.1 - PLAY AREAS

- WHERE GROUND-LEVEL PLAY COMPONENTS ARE PROVIDED, AT LEAST ONE OF EACH TYPE SHALL BE ON AN ACCESSIBLE ROUTE AND SHALL COMPLY WITH 1008.4
- WHEN ELEVATED PLAY COMPONENTS ARE PROVIDED, AT LEAST 80% SHALL BE ON AN ACCESSIBLE ROUTE AND SHALL COMPLY WITH 1008.4

TAS SECTION 230.2 - SWIMMING POOLS, WADING POOLS, AND SPAS

- AT LEAST TWO ACCESSIBLE MEANS OF ENTRY SHALL BE PROVIDED FOR SWIMMING POOLS
- AT LEAST ONE ACCESSIBLE MEANS FOR ENTRY FOR WADING POOLS AND SPAS
- TAS SECTION 231 - SHOOTING FACILITIES WITH FIRING POSITIONS
 - 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 POSITION SHALL COMPLY WITH 1010

CHAPTER 3: BUILDING BLOCKS

TAS SECTION 302 - FLOOR OR GROUND SURFACES

- FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT
- 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, OR LEVEL CUT/TEXTURED TILE PILE. 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
- OPENINGS IN FLOOR OR 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, 810.5.2, AND 810.10. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL

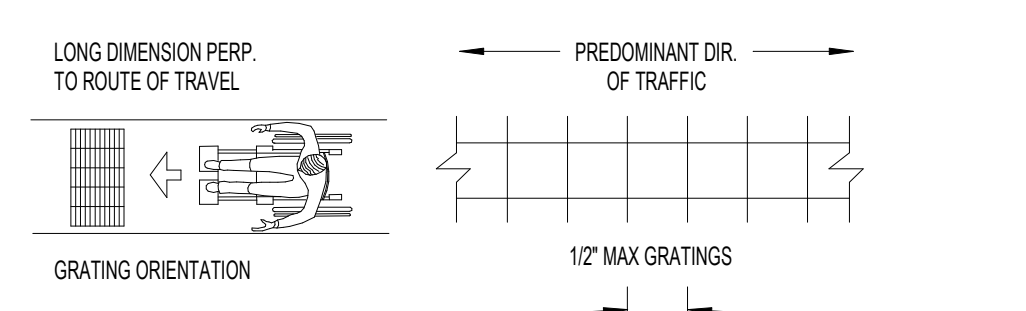


FIGURE 302.1 UNOBSTRUCTED FORWARD-SIDE REACH

- CHANGES IN LEVEL OF 1/4" HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL. (FIG. 303)
- CHANGES IN LEVEL BETWEEN 1/4" MAXIMUM SHALL BE BEVELLED AT A SLOPE NOT STEEPER THAN 1:2 (FIG. 303)
- CHANGES IN LEVEL GREATER THAN 1/2" HIGH SHALL BE RAMPED AND COMPLY WITH 405 OR 406

TAS SECTION 303 - CHANGES IN LEVEL

- CHANGES IN LEVEL OF 1/4" HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL. (FIG. 303)
- CHANGES IN LEVEL BETWEEN 1/4" MAXIMUM SHALL BE BEVELLED AT A SLOPE NOT STEEPER THAN 1:2 (FIG. 303)
- CHANGES IN LEVEL GREATER THAN 1/2" HIGH SHALL BE RAMPED AND COMPLY WITH 405 OR 406

TAS SECTION 304 - TURNING SPACE

- THE TURNING SPACE SHALL BE A SPACE 60" DIAMETER MINIMUM. THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306
- SLOPES STEEPER THAN 1:4 ARE NOT PERMITTED
- DOORS SHALL BE PERMITTED TO SWING INTO TURNING SPACES
- THE 1/2 SHAPED TURNING SPACE SHALL BE A 1/2 SHAPED SPACE WITH A 60" SQUARE MINIMUM WITH ARMS AND BASE 30" WIDE MINIMUM. EACH ARM OF THE 1/2 SHALL BE CLEAR OF OBSTRUCTIONS 12" MINIMUM IN EACH DIRECTION AND THE BASE SHALL BE CLEAR OF OBSTRUCTIONS 24" MINIMUM. THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306 ONLY AT THE END OF EITHER THE BASE OR ARM. (FIG. 304.3.2)

TAS SECTION 305 - CLEAR FLOOR OR GROUND SPACE

- THE CLEAR FLOOR OR GROUND SPACE SHALL BE 30" MINIMUM BY 48" MINIMUM
- FLOOR OR GROUND SURFACES OF A CLEAR FLOOR OR GROUND SPACE SHALL COMPLY WITH 302. CHANGES IN LEVEL ARE NOT PERMITTED. SLOPES STEEPER THAN 1:4 ARE NOT PERMITTED
- THE CLEAR FLOOR OR GROUND SPACE SHALL BE 30" MINIMUM BY 48" MINIMUM. (FIG. 305.3)
- UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR OR GROUND SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCES COMPLYING WITH 306
- UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED FOR EITHER FORWARD OR PARALLEL APPROACH TO AN ELEMENT. (FIG. 305.3)
- ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR OR GROUND SPACE SHALL ADJOIN AN ACCESSIBLE ROUTE OR ADJOIN ANOTHER CLEAR FLOOR OR GROUND SPACE
- WHERE A CLEAR FLOOR OR GROUND SPACE IS LOCATED IN AN ALCOVE OR OTHERWISE CONFINED ON ALL OR PART OF 3 SIDES, ADDITIONAL MANEUVERING CLEARANCE SHALL BE PROVIDED IN ACCORDANCE WITH 305.3.1

- ALCOVES SHALL BE 36" WIDE MINIMUM WHERE THE DEPTH EXCEEDS 24" FOR FORWARD APPROACH (FIG. 305.3.1)
- ALCOVES SHALL BE 60" WIDE MINIMUM WHERE THE DEPTH EXCEEDS 15" FOR PARALLEL APPROACH (FIG. 305.3.2)

TAS SECTION 309 - OPERABLE PARTS

- A CLEAR FLOOR SPACE COMPLYING WITH 305 SHALL BE PROVIDED
- OPERABLE PARTS SHALL BE PLACED WITHIN ONE OF THE REACH RANGES SPECIFIED IN 308
- OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM

CHAPTER 3: SCOPING REQUIREMENTS (CONTINUED)

FIGURE 306.3 CLEAR FLOOR OR GROUND SPACE



FIGURE 306.5 POSITION OF CLEAR FLOOR OR GROUND SPACE



FIGURE 306.7 MANEUVERING CLEARANCE IN AN ALCOVE, FORWARD APPROACH

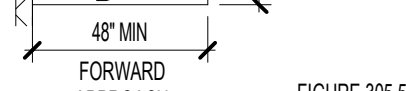


FIGURE 306.7.2 MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

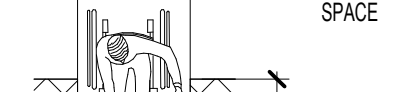


FIGURE 306.7.2 MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

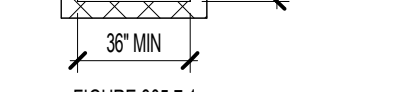


FIGURE 306.7.2 MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

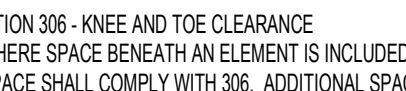


FIGURE 306.7.2 MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

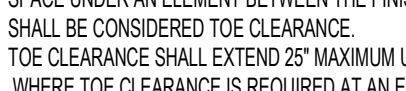


FIGURE 306.7.2 MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

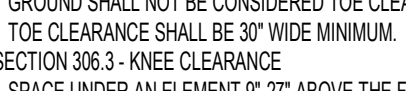


FIGURE 306.7.2 MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

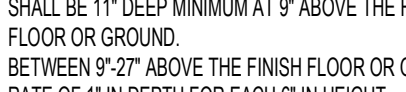


FIGURE 306.7.2 MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

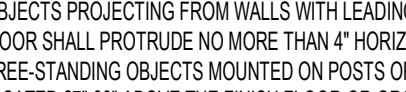


FIGURE 306.7.2 MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

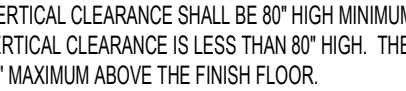


FIGURE 306.7.2 MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

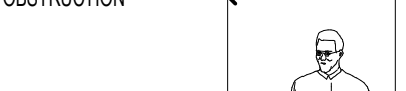


FIGURE 306.7.2 MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

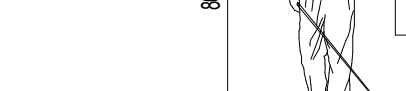
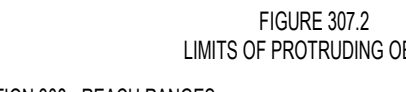
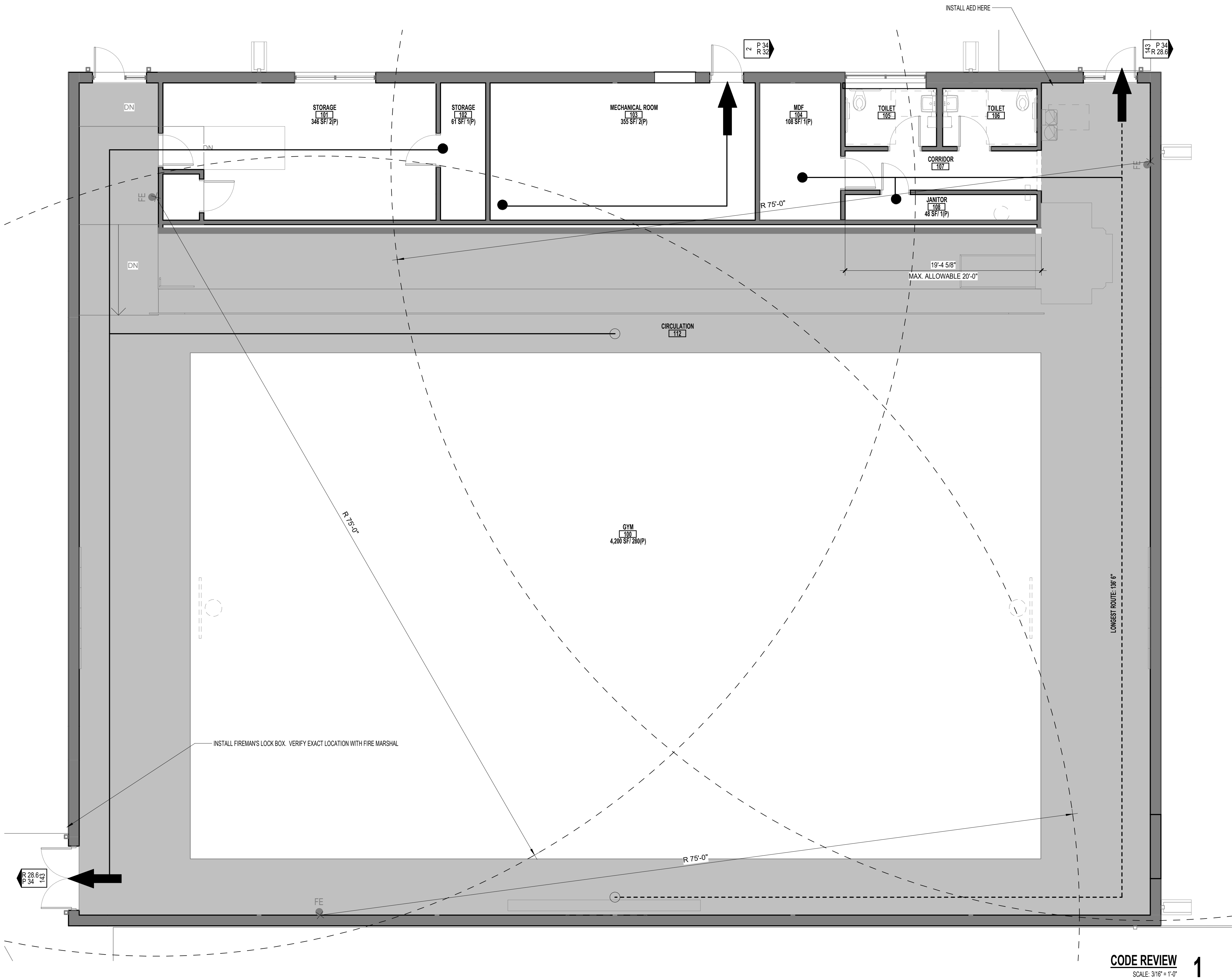


FIGURE 306.7.2 MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH





LEGEND

1 HOUR FIRE-RESISTANCE RATING
2 HOUR FIRE-RESISTANCE RATING
RATED DOOR/WINDOW REF. DOOR SCHEDULE FOR MORE INFO.
NON RATED ELEMENT
RATED EXIT ENCLOSURE
LONGEST EXIT ROUTE PER LEVEL
EXIT ROUTE
EXIT POINT WITH WIDTH INDICATED IN INCHES
P=PROVIDED EXIT WIDTH OF EGRESS COMPONENT
R=REQUIRED EXIT WIDTH OF EGRESS COMPONENT

FEC FIRE EXTINGUISHER CABINET & FIRE EXTINGUISHER
FE FIRE EXTINGUISHER - BRACKET

GENERAL NOTES

- REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS AND QUANTITY OF SMOKE DETECTORS AND ILLUMINATED EXIT SIGNS.
- ALL EXITS SHALL COMPLY WITH ACCESSIBLE STANDARDS AND DISCHARGE TO A PAVED PUBLIC WAY, OR A PAVED SIDEWALK WHICH LEADS TO A PUBLIC WAY.
- BUILDING WILL BE CONSTRUCTED IN ACCORDANCE WITH THE COUNTY FIRE CODE AND REFERENCED DOCUMENTS.

APPLICABLE CODES

2018 IBC INTERNATIONAL BUILDING CODE
2018 IBC INTERNATIONAL EXISTING BUILDING CODE
2018 IBC INTERNATIONAL MECHANICAL CODE
2018 IBC INTERNATIONAL PLUMBING CODE
2018 NFPA (NATIONAL FIRE PROTECTION AGENCY) 101 LIFE SAFETY CODE
2018 INTERNATIONAL FIRE CODE

2018 NFPA (NATIONAL FIRE PROTECTION AGENCY) 101 STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS
2017 NFPA (NATIONAL FIRE PROTECTION AGENCY) 70 NATIONAL ELECTRICAL CODE
2018 ASHRAE STANDARD 90.1 ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS
TAS TEXAS ACCESSIBILITY STANDARDS (ADOPTED MARCH 2012)

2018 IEBC COMPLIANCE DATA

CHAPTER 3 - PROVISIONS FOR ALL COMPLIANCE METHODS

SECTION 302.4 - EXISTING MATERIALS
MATERIALS ALREADY IN USE IN A BUILDING IN COMPLIANCE WITH REQUIREMENTS OR APPROVALS IN EFFECT AT THE TIME OF THEIR ERECTION OR INSTALLATION SHALL BE PERMITTED TO REMAIN IN USE UNLESS DETERMINED BY THE BUILDING OFFICIAL TO BE UNSAFE.

SECTION 308.3.3 - PLATFORM LIFTS
PLATFORM WHEELCHAIR LIFTS COMPLYING WITH ICCA 117.1 AND INSTALLED IN ACCORDANCE WITH ASME A18.1 SHALL BE PERMITTED AS A COMPONENT OF AN ACCESSIBLE ROUTE.

SECTION 308.5.5 - RAMPS
WHERE SLOPES STEEPER THAN ALLOWED BY SECTION 1012.2 OF THE INTERNATIONAL BUILDING CODE ARE NECESSITATED BY SPACE LIMITATIONS, THE SLOPE OF RAMPS IN OR PROVIDING ACCESS TO EXISTING FACILITIES SHALL COMPLY WITH TABLE 305.5.

ICC CHAPTER 5 - SECTION 501.4 - ALTERATIONS
ALTERATIONS TO ANY TIERED SHEATING SHALL CONFORM WITH THE REQUIREMENTS OF THIS STANDARD FOR NEW CONSTRUCTION. PORTIONS OF THE STRUCTURE NOT ALTERED AND NOT AFFECTED BY THE ALTERATION ARE NOT REQUIRED TO COMPLY WITH THE REQUIREMENTS IN THIS STANDARD FOR A NEW STRUCTURE.

2018 IBC COMPLIANCE DATA

CHAPTER 2 - DEFINITIONS
GRADE PLANE: A REFERENCE PLANE REPRESENTING THE AVERAGE OF FINISHED GROUND LEVEL ADJOINING THE BUILDING AT EXTERIOR WALLS. WHERE THE FINISHED GROUND LEVEL SLOPES AWAY FROM THE EXTERIOR WALLS, THE REFERENCE PLANE SHALL BE ESTABLISHED BY THE LOWEST POINTS WITHIN THE AREA BETWEEN THE BUILDING AND THE LOT LINE OR, WHERE THE LOT LINE IS MORE THAN 6 FEET (1829 MM) FROM THE BUILDING, BETWEEN THE BUILDING AND A POINT 6 FEET (1829 MM) FROM THE BUILDING. GRADE PLANE = 7' BELOW PROJECT TO "D" ELEVATION".

CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION
SECTION 302.1 - EDUCATION GROUP E
BUILDING OCCUPANCY - 285 OCCUPANTS

CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS
TABLE 504.5 & 504.6
GROUP E, TYPE IIB, NON-SPRINKLERED
BUILDING HEIGHT: 40' ALLOWED, 39' ACTUAL (ABOVE GRADE PLANE)
BUILDING STORIES: 1 STORIES ALLOWED, 1 STORIES ACTUAL
BUILDING AREA: 9,500 SQUARE FEET PER STORY ALLOWED (BEFORE AREA INCREASES)

SECTION 506.2.1 - EQUATION 5-1 FOR ALLOWABLE TOTAL SQUARE FOOTAGE FOR SINGLE OCCUPANCY, SINGLE-STORY BUILDING
A_{max} = 100 x (A)
A_{max} = 8,000 (8,000 x 75)
A_{max} = 15,075 SQUARE FEET ALLOWED FOR THE ENTIRE BUILDING
NO INDIVIDUAL STORY SHALL EXCEED THE ALLOWABLE AREA (A_{max}) AS DETERMINED BY EQUATION 5-1

SECTION 506.3 - FRONTAGE INCREASE
IF = 75
BUILDING AREA ACTUAL
LEVEL 1: TOTAL GROSS AREA: 8,900 SQUARE FEET
TOTAL SF LEVEL 1: 8,900 SQUARE FEET
TOTAL SF BUILDING: 8,900 SQUARE FEET

SECTION 509 - INCIDENTAL USES
509.4 - NO SEPARATION BETWEEN GROUP E OCCUPANCIES

CHAPTER 6 - TYPES OF CONSTRUCTION

SECTION 601 - GENERAL
601 - FOR CONSTRUCTION TYPE IIB, 1 HOUR FIRE-RESISTANCE RATING REQUIRED FOR BUILDING ELEMENTS
NOTE: ELEMENTS INCLUDE PRIMARY STRUCTURAL FRAME, EXTERIOR AND INTERIOR WALLS, FLOOR AND ROOF CONSTRUCTION

SECTION 602 - CONSTRUCTION CLASSIFICATION
602 - FOR CONSTRUCTION TYPE IIB, 1 HOUR FIRE-RESISTANCE RATING FOR EXTERIOR WALLS IF < 10 FT. FROM OTHER STRUCTURES, ELSE 0
602.4 - NOT APPLICABLE

CHAPTER 7 - FIRE AND SMOKE PROTECTION FEATURES

SECTION 705 - EXTERIOR WALLS
705.2 - PROJECTION SEPARATION DISTANCE FROM FSD LINE FOR FSD OF 30 FT.: 20 FT. MINIMUM, 44 FT. ACTUAL
705.2.1 - PROJECTIONS FROM TYPE IIB CONSTRUCTION SHALL BE OF ANY APPROVED MATERIAL
705.6.1 - EXCEPTION 2: BUILDINGS WHOSE EXTERIOR BEARING WALLS, EXTERIOR NONBEARING WALLS, AND EXTERIOR PRIMARY STRUCTURAL FRAME ARE NOT REQUIRED TO BE FIRE-RESISTANCE RATED SHALL BE PERMITTED TO HAVE UNLIMITED UNPROTECTED OPENINGS

CHAPTER 10 - MEANS OF EGRESS

SECTION 1005 - MEANS OF EGRESS SIZING
1005.1 - FOR STAIRWAYS: 0.3 IN. PER OCCUPANT
1005.2 - FOR OTHER EGRESS COMPONENTS: 0.2 IN. PER OCCUPANT

SECTION 1006 - NUMBER OF EXITS AND EXIT ACCESS DOORWAYS
1006.2.1 - FOR SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY, SEE CODE PLAN
1006.3.2 - FOR OCCUPANT LOAD PER STORY:
BUILDING (LEVEL 1): 2 EXITS REQUIRED, 2 EXITS PROVIDED

SECTION 1007 - EXIT AND EXIT ACCESS DOORWAY CONFIGURATION
1007.1.1 - FOR DISTANCE BETWEEN EXITS, SEE CODE PLAN

SECTION 1009 - ACCESSIBLE MEANS OF EGRESS
1009.1.2 - 48 IN. CLEAR HANDRAIL WIDTH IN EXIT STAIRS REQUIRED
1009.3.2 - AREAS OF REFUGE IN EXIT STAIRS REQUIRED
NO EXIT STAIRS PROVIDED IN THIS PROJECT

SECTION 1010 - DOORS, GATES, AND TURNSTILES
1010.1.1 - MINIMUM EGRESS DOOR WITH 20"
1010.1.2 - EGRESS DOORS SHALL SWING IN THE DIRECTION OF TRAVEL
1010.1.8 - DOORS IN SERIES MUST BE SEPARATED A MINIMUM OF 48 IN. PLUS THE SWING OF THE DOOR

SECTION 1017 - EXIT ACCESS TRAVEL DISTANCE
1017.2 - FOR GROUP E W/2 SPRINKLER SYSTEM: EXIT TRAVEL DISTANCE IS 200 FT.

SECTION 1020 - CORRIDORS
1020.1 - GROUP E W/2 SPRINKLER SYSTEM AND OCCUPANTS LESS THAN 30: NO FIRE-RESISTANCE RATING
1020.2 - FOR GROUP E W/2 SPRINKLER SYSTEM AND OCCUPANTS LESS THAN 30: NO FIRE-RESISTANCE RATING
1020.2 - FOR AN OCCUPANT LOAD LESS THAN 50: MINIMUM WIDTH OF 36 IN.
1020.2 - FOR ACCESS TO AND CIRCULATION OF MECHANICAL, PLUMBING, OR ELECTRICAL SYSTEMS OR EQUIPMENT: MINIMUM WIDTH OF 36 IN.
1020.3 - FOR ALL OTHER CONDITIONS: MINIMUM WIDTH OF 44 IN.
1020.5 - WHERE MORE THAN ONE EXIT OR EXIT ACCESS DOORWAY IS REQUIRED, THE EXIT ACCESS SHALL BE ARRANGED SUCH THAT DEAD-END CORRIDORS DO NOT EXCEED 20' IN LENGTH

CHAPTER 17 - SPECIAL INSPECTIONS AND TESTS
STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS REQUIRING SPECIAL INSPECTIONS PER SECTION 705 OF THE IBC HAVE NOT BEEN LISTED HERE. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL FOR SPECIAL INSPECTION REQUIREMENTS FOR THESE COMPONENTS
ITEMS OF ARCHITECTURAL CONSTRUCTION WHICH REQUIRE SPECIAL INSPECTION INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
NO SPECIAL INSPECTIONS REQUIRED FOR ARCHITECTURAL RELATED CONSTRUCTION

2018 IECC COMPLIANCE DATA

CHAPTER 3 - GENERAL REQUIREMENTS

SECTION C301.3 - GENERAL
C301.1 - CLIMATE ZONE 2A

CHAPTER 4 - COMMERCIAL ENERGY EFFICIENCY

REFER TO LIGHTING & MECHANICAL COMCHECK FOR COMPLIANCE

C402.4 - FOR CLIMATE ZONE 2 AND FIXED FENESTRATION: U-FACTOR OF 0.5
C402.4 - SOLAR HEAT GAIN COEFFICIENT REQUIREMENTS

CHAPTER 5 - EXISTING BUILDINGS

THE BUILDING ENVELOPE DOES NOT HAVE ANY IMPROVEMENTS THAT REQUIRE THE NEW WORK TO COMPLY WITH THE IECC. THE NEW MECHANICAL SYSTEM, HOT WATER SYSTEM, AND LIGHTING SYSTEMS WILL BE IN COMPLIANCE WITH THE APPLICABLE SECTIONS OF CHAPTER 4.

PRODUCTION FACTOR

SEASON	SEASON	SEASON
0.2	0.2	0.2
0.2	0.2	0.2
0.2	0.2	0.2

SHGC OF SPECIFIED GLAZING = 0.25
U-VALUE OF SPECIFIED GLAZING = 0.33

2018 IPC COMPLIANCE DATA

OCCUPANTS

WATER CLOSETS	WATER CLOSETS	WATER CLOSETS
RECD	3	285
PROVIDED	1	
RECD	3	
PROVIDED	1	
RECD	3	
PROVIDED	1	
RECD	3	
PROVIDED	1	
RECD	3	
PROVIDED	1	
RECD	3	
PROVIDED	1	
RECD	3	
PROVIDED	1	

NOTE: THE PROVIDED FIXTURES ARE INTENDED FOR CONVENIENCE. THERE ARE TOILET ROOMS THROUGHOUT THE CAMPUS THAT SATISFY THE ADDITIONAL PLUMBING REQUIREMENTS

*419.2 SUBSTITUTION FOR WATER CLOSETS. IN EACH BATHROOM OR TOILET ROOM, URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 67 PERCENT OF THE REQUIRED WATER CLOSETS IN ASSEMBLY AND EDUCATIONAL OCCUPANCIES. URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50 PERCENT OF THE REQUIRED WATER CLOSETS IN ALL OTHER OCCUPANCIES

pfluger
office: 512.476.4040 | fax: 512.476.4280
209 E. Riverside Drive Austin, Texas 78704
pflugarchitects.com

HUTTO ISD GYM RENOVATION
302 COLLEGE STREET HUTTO, TX 78634

HUTTO ISD
200 COLLEGE STREET
HUTTO, TEXAS 78634

BID SET
G0.03
CODE PLAN

DATE: 04/05/2021

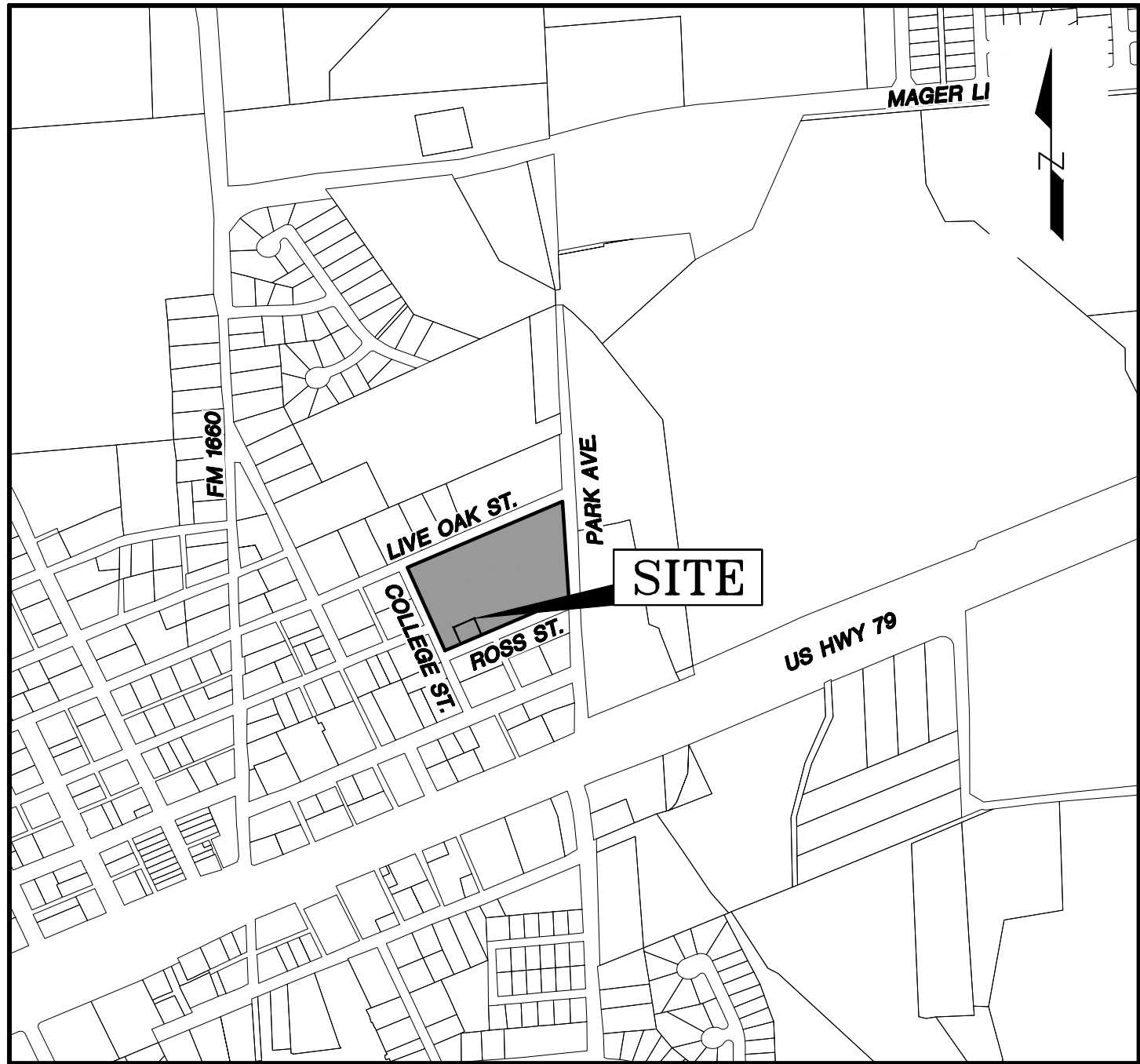
PROJECT NO. 20-038
DATE: 04/05/2021
DRAWN BY: DO CHECKED BY: JMM
REVISIONS:
Date Description

OWNER / DEVELOPER: HUTTO INDEPENDENT SCHOOL DISTRICT
CONTACT: HENRY GIDEON
200 COLLEGE STREET
HUTTO, TX 78634
(512) 759-3771

ENGINEER: JAMISON CIVIL ENGINEERING LLC
CONTACT: STEVE JAMISON
13812 RESEARCH BLVD. #B-2
AUSTIN, TEXAS 78750
(737) 484-0880

SURVEYOR: CHAPARRAL PROFESSIONAL LAND SURVEYING, INC.
SURVEYING AND MAPPING
CONTACT: STEVEN P. TIMBERLAKE
3500 McCALL LANE
AUSTIN, TEXAS 78744
(512) 443-1724

CONSTRUCTION PLANS FOR HUTTO ISD GYM RENOVATION 302 COLLEGE STREET HUTTO, TEXAS 78634



LOCATION MAP
N.T.S.

EDWARDS AQUIFER:

- NO PORTION OF THIS SITE IS LOCATED OVER THE EDWARDS AQUIFER RECHARGE ZONE.

FLOOD PLAIN NOTE:

NO PORTION OF THESE IMPROVEMENTS ARE WITHIN THE BOUNDARIES OF THE 100 YEAR FLOODPLAIN AS SHOWN ON PRELIMINARY FEDERAL FLOOD INSURANCE ADMINISTRATION FIRM PANEL 48491C0520F WILLIAMSON COUNTY, TEXAS (EFFECTIVE DECEMBER 20, 2019).

GENERAL NOTES:

- THE DISTURBED AREAS WITHIN THIS PROJECT SHALL BE REVEGETATED AND ALL PERMANENT EROSION/SEDIMENTATION CONTROLS COMPLETED PRIOR TO THE ISSUANCE OF OCCUPANCY PERMITS FOR THAT PHASE. TEMPORARY EROSION/SEDIMENTATION CONTROLS SHALL BE ADJUSTED AS NEEDED PRIOR TO THIS RELEASE TO INSURE THAT SUBSEQUENT PHASE DISTURBED AREAS ARE ADEQUATELY COVERED. ANY AREA WITHIN THE LIMIT OF DISTURBANCE OF THE PROJECT WHICH IS NOT ADEQUATELY REVEGETATED SHALL BE BROUGHT INTO COMPLIANCE PRIOR TO THE RELEASE OF THE FINAL PHASE.
- CONTRACTOR SHALL CALL THE CITY OF HUTTO PUBLIC WORKS DEPARTMENT AT (512) 759-4016 FOR UTILITY LOCATIONS PRIOR TO ANY WORK IN CITY EASEMENTS OR STREET R.O.W.
- ALL CONSTRUCTION OPERATIONS AROUND SLOPES OR TRENCHES GREATER THAN FIVE FEET IN DEPTH SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION. (OSHA STANDARDS MAY BE PURCHASED FROM THE GOVERNMENT PRINTING OFFICE; INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 611 EAST 6TH STREET, AUSTIN TEXAS.)
- ALL SITE WORK MUST ALSO COMPLY WITH THE CITY OF HUTTO'S ENVIRONMENTAL REQUIREMENTS.

REVISIONS							
NO.	DESCRIPTION	REVISED/ ADDED SHEET NO.'S	TOTAL # SHEETS IN PLAN SET	NET CHANGE IMP. COVER	SITE IMP. COVER	% SITE IMP. COVER	APPROVED/DATE

CORRECTIONS							
NO.	DESCRIPTION	REVISED/ ADDED SHEET NO.'S	TOTAL # SHEETS IN PLAN SET	NET CHANGE IMP. COVER	SITE IMP. COVER	% SITE IMP. COVER	APPROVED/DATE

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, CITY OF HUTTO MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER. REVIEW OF THE SUBMITTED MATERIALS DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR ORDINANCE COMPLIANCE BY THE CITY ENGINEER.

LIMITATION OF LIABILITY - JAMISON CIVIL ENGINEERING LLC ASSUMES NO LIABILITY FOR ANY DESIGN OR DRAWINGS IN THESE PLANS THAT ARE NOT SIGNED AND SEALED BY A PROFESSIONAL ENGINEER EMPLOYED BY THE FIRM. OTHER CONSULTANTS' WORK SHOWN IN THESE PLANS IS THE RESPONSIBILITY OF THE CONSULTANT WHO PREPARED SUCH WORK, AND IS INCLUDED IN THIS PLAN SET FOR REVIEW REQUIREMENTS ONLY.

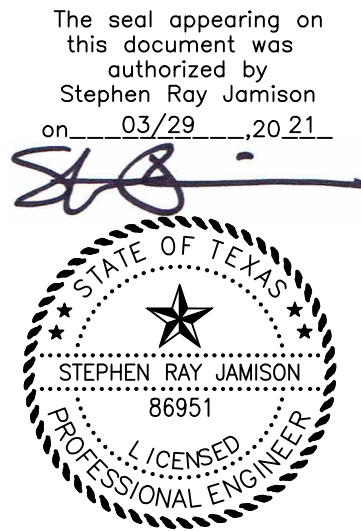
SITE PLAN COMPONENTS - ALL BUILDING AND STRUCTURAL IMPROVEMENTS SHOWN HEREON ARE SHOWN FOR CONCEPTUAL PURPOSES ONLY. JAMISON CIVIL ENGINEERING LLC IS NOT RESPONSIBLE OR LIABLE FOR THE DESIGN OF BUILDING AND STRUCTURAL IMPROVEMENTS BY OTHERS.

STRUCTURAL COMPONENTS - ALL STRUCTURAL DESIGN IS THE RESPONSIBILITY OF THE OWNER'S STRUCTURAL ENGINEER. STRUCTURAL DESIGN SHOWN HEREON IS THE DESIGN OF THE OWNER'S STRUCTURAL ENGINEER.

PAVEMENT DESIGN - PAVEMENT DESIGN SHOWN HEREON IS THE DESIGN OF THE OWNER'S GEOTECHNICAL CONSULTANT. JAMISON CIVIL ENGINEERING LLC MAKES NO WARRANTY OR GUARANTEE AS TO ITS SUITABILITY, AND ASSUMES NO LIABILITY THEREFOR.

SHEET INDEX

- | | |
|----|--|
| 01 | COVER SHEET |
| 02 | GENERAL NOTES |
| 03 | EXISTING CONDITIONS & DEMOLITION PLAN |
| 04 | EROSION SEDIMENTATION AND TREE PROTECTION PLAN |
| 05 | EROSION SEDIMENTATION CONTROL DETAILS |
| 06 | OVERALL SITE PLAN |
| 07 | SITE PLAN |
| 08 | GRADING PLAN |
| 09 | EXISTING CONDITIONS DRAINAGE MAP |
| 10 | PROPOSED CONDITIONS DRAINAGE MAP |
| 11 | STORM SEWER LAYOUT |
| 12 | GENERAL DETAILS |
| 13 | UTILITY PLAN |
| 14 | UTILITY DETAILS |



JAMISON CIVIL ENGINEERING LLC
(TX. PE FIRM REG. #F-17756)
13812 RESEARCH BLVD. #B-2
AUSTIN, TEXAS 78750
OFFICE: (737) 484-0880
INFO@JAMISONENG.COM

JCE

pfluger

office: 512.476.4040 | fax: 512.476.4289
209 E. Riverside Drive Austin, Texas 78704
pflugerarchitects.com

HUTTO ISD GYM RENOVATION

302 COLLEGE ST., HUTTO, TX 78634

HUTTO INDEPENDENT SCHOOL DISTRICT

200 COLLEGE STREET
HUTTO, TX 78634

PROJECT NO.	20-038
DATE	02/26/2021
AUTHOR: MM	CHECKED BY: SRJ
REVISIONS:	
1	Date Description
2	
3	
4	
5	
6	

COVER SHEET

BID SET

CITY OF HUTTO
GENERAL CONSTRUCTION NOTES
(UPDATED MARCH 2019)

1. THE CONTRACTOR IS TO CONTACT ONE OF THE FOLLOWING:
TEXAS 811
LONE STAR 1-800-669-8344
FOR LOCATION OF EXISTING FACILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
2. PRIOR TO ANY CONSTRUCTION, THE DESIGN ENGINEER SHALL CONVENE A PRECONSTRUCTION CONFERENCE BETWEEN THE CITY OF HUTTO, HIMSELF, THE CONTRACTOR, OTHER UTILITY COMPANIES, ANY AFFECTED PARTIES AND ANY OTHER ENTITY THE CITY OR ENGINEER MAY REQUIRE. IF CONSTRUCTION IS NOT STARTED ON THE SITE WITHIN 30 CALENDAR DAYS AFTER THE PRE-CONSTRUCTION CONFERENCE, THE ENGINEER SHALL CONVENE A NEW PRECONSTRUCTION CONFERENCE BETWEEN THE CITY OF HUTTO, HIMSELF, AND ALL THE ABOVE MENTIONED ENTITIES.
3. PRIOR TO ANY CHANGES TO THE CONSTRUCTION SITE, VIDEO OF THE SITE MUST BE TAKEN AND PROVIDED TO THE CITY BEFORE CONSTRUCTION COMMENCES.
4. ALL CONSTRUCTION OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF HUTTO ENGINEERING MANUAL AND STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS. IF CITY OF HUTTO ENGINEERING MANUAL UNAVAILABLE, OR NOT APPLICABLE, REFER TO TxDOT AND/OR CITY OF GEORGETOWN MANUAL, STANDARDS AND/OR SPECIFICATIONS.
5. ALL STORM SEWER BENDS AND WYES SHALL BE PREFABRICATED.
6. ALL STORM SEWER MAINS TO BE FIELD-TESTED FOR WATER TIGHTNESS NO SOONER THAN 30 DAYS AFTER TOTAL COMPLETION OF THE STORM SEWER LINES.
7. ALL STORM SEWER MAINS TO BE VIDEO TAPED BY CAMERA NO SOONER THAN 30 DAYS AFTER TOTAL COMPLETION OF THE STORM SEWER LINES. TWO DIGITAL COPIES SHALL BE SUPPLIED TO THE CITY BEFORE CLOSOUT. ALL STORM SEWER CONDUITS WILL BE INSPECTED BY THE CITY BEFORE CITY ACCEPTANCE. VIDEO MUST SHOW DETAILS OF ALL IRREGULARITIES OR OFFSETS (MINIMUM 10 SECONDS OF VIDEO TIME).
8. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, OSHA STANDARDS MAY BE PURCHASED FROM THE GOVERNMENT PRINTING OFFICE. INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 611 E. 6TH STREET, AUSTIN, TEXAS.
9. CONTRACTOR SHALL TAKE ALL DUE PRECAUTIONS TO PROTECT EXISTING FACILITIES FROM DAMAGE. ANY DAMAGE INCURRED TO EXISTING FACILITIES AS A RESULT OF CONSTRUCTION OPERATIONS TO BE REPAIRED IMMEDIATELY BY THE CONTRACTOR, AT NO ADDITIONAL COST TO OWNER.
10. CONTRACTOR TO GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS OR PERSONS IN CHARGE OF PUBLIC AND PRIVATE UTILITIES AFFECTED BY HIS OPERATIONS AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
11. CONTRACTOR TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS REGARDING EXCESS AND WASTE MATERIAL, INCLUDING METHODS OF HANDLING AND DISPOSAL.
12. CONTRACTOR TO COORDINATE INTERRUPTIONS OF ALL UTILITIES AND SERVICES. ALL WORK TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY COMPANY OR AGENCY INVOLVED.
13. WHEN UN-LOCATED OR INCORRECTLY LOCATED, A BREAK IN UTILITY LINES, OR OTHER UTILITIES AND SERVICES ARE ENCOUNTERED DURING SITE WORK OPERATIONS, CONTRACTOR SHALL NOTIFY THE APPLICABLE UTILITY COMPANY IMMEDIATELY TO OBTAIN PROCEDURE DIRECTIONS. CONTRACTOR SHALL COOPERATE WITH THE APPLICABLE UTILITY COMPANY IN MAINTAINING ACTIVE SERVICES IN OPERATION.
14. CONTRACTOR TO LOCATE, PROTECT, AND MAINTAIN BENCHMARKS, MONUMENTS, CONTROL POINTS AND PROJECT ENGINEERING REFERENCE POINTS. RE-ESTABLISH DISTURBED OR DESTROYED ITEMS BY REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF TEXAS, AT NO ADDITIONAL COST TO OWNER.
15. WHEN CONSTRUCTION IS BEING CARRIED OUT WITHIN EASEMENTS, THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE PERMANENT AND TEMPORARY EASEMENTS. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TRASH AND DEBRIS WITHIN THE PERMANENT AND TEMPORARY EASEMENTS. CLEAN-UP SHALL BE TO THE SATISFACTION OF THE ENGINEER.
16. THE CONTRACTOR AND THE ENGINEER SHALL KEEP ACCURATE RECORDS OF ALL CONSTRUCTION THAT DEVIATES FROM THE PLANS. ACCURATE RECORD DRAWINGS WILL BE PROVIDED TO THE CITY OF HUTTO, ALONG WITH A LETTER CERTIFICATION FROM A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS, STATING THAT SAID PROJECT HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THESE PLANS. PRIOR TO THE OWNER BEING ISSUED A CERTIFICATION OF COMPLETION AND FINAL ACCEPTANCE, THESE RECORD DRAWINGS SHALL MEET WITH THE SATISFACTION OF THE ENGINEERING AND DEVELOPMENT SERVICES DEPARTMENTS PRIOR TO FINAL ACCEPTANCE.
17. CONTRACTOR SHALL STRIP SIX (6) INCHES OF TOPSOIL FROM ALL AREAS SUBJECT TO GRADE MODIFICATION. REMOVE ALL AREAS OF WEAK SOIL.
18. THE CONTRACTOR SHALL PROTECT ALL EXISTING FENCES. IN THE EVENT THAT A FENCE MUST BE REMOVED, THE CONTRACTOR SHALL REPLACE SAID FENCE OR PORTION THEREOF WITH THE SAME TYPE OF FENCING TO A QUALITY OF EQUAL OR BETTER THAN THE ORIGINAL FENCE.
19. UPON COMPLETION OF THE PROJECT, THE SITE(S) AS DEFINED HEREIN SHALL BE CLEANED OF ALL DEBRIS AND LEFT IN A NEAT AND PRESENTABLE CONDITION.
20. ALL ADJOINING PAVEMENT SECTIONS SHALL BE PROTECTED DURING ALL PHASES OF CONSTRUCTION AND ANY DAMAGES INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED AND/OR REPLACED AT THE CONTRACTOR'S EXPENSE.
21. CONTRACTOR TO CONTROL DUST CAUSED BY THE WORK AND COMPLY WITH POLLUTION CONTROL REGULATIONS OF GOVERNING AUTHORITIES (NO SEPARATE PAY).
22. TRAFFIC CONTROLS TO BE INSTALLED IN ACCORDANCE WITH THE CURRENT TxDOT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND TxDOT BARRICADE AND CONSTRUCTION STANDARDS.
23. REVEGETATE ALL DISTURBED AREAS UPON COMPLETION OF THE WORK PER CITY OF GEORGETOWN CONSTRUCTION STANDARDS.
24. CONTRACTOR TO EXERCISE CAUTION DURING CONSTRUCTION NEAR AND AROUND GAS LINES AND POWER LINES.
25. NO WORK IS TO BE PERFORMED BETWEEN THE HOURS OF 6:00 P.M. AND 7:00 A.M. ALL WORK REQUIRING CITY INSPECTION SHALL BE PERFORMED MONDAY THRU FRIDAY. THE CITY RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO UNCOVER ALL WORK PERFORMED WITHOUT INSPECTION.
26. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION VERTICALLY AND HORIZONTALLY OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK, AND SHALL NOTIFY THE ENGINEER AND THE CITY IF THE EXISTING UTILITY LOCATION AND DEPTHS ARE DIFFERENT FROM WHAT IS SHOWN ON THE PLANS. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE ASSOCIATED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
27. ALL FIRE LINES SHALL BE DUCTILE IRON.
28. DETECTABLE TAPE SHALL BE USED FOR ALL UNDERGROUND UTILITIES. TAPE MUST BE 12" WIDE X 5 MIL WITH APPLICABLE COLOR AND LABEL.
29. CONTRACTOR WILL BE RESPONSIBLE FOR KEEPING ROADS AND DRIVES ADJACENT TO AND NEAR THE SITE FREE FROM SOIL, SEDIMENT AND DEBRIS. CONTRACTOR WILL NOT REMOVE SOIL, SEDIMENT OR DEBRIS FROM ANY AREA OR VEHICLE BY MEANS OF WATER, ONLY SHOVELING AND SWEEPING WILL BE ALLOWED. CONTRACTOR WILL BE RESPONSIBLE FOR DUST CONTROL FROM THE SITE.
30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO PRIVATE PROPERTY WHICH OCCURS AS A RESULT OF ANY PORTION OF THIS PROJECT. ANY DAMAGE TO PRIVATE PROPERTY SHALL BE REPAIRED TO EQUAL OR BETTER CONDITION. THE CONTRACTOR SHALL PAY AND/OR SETTLE WITH PRIVATE PROPERTY OWNER(S) FOR ALL COST RELATED TO DAMAGE. THE CITY WILL NOT PROVIDE SEPARATE PAY FOR REPAIR OF DAMAGES, REIMBURSEMENTS OR SETTLEMENTS.

CITY OF HUTTO
WATER NOTES
(UPDATED MARCH 2019)

1. WATER SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF HUTTO ENGINEERING MANUAL, STANDARD SPECIFICATIONS AND STANDARD DETAILS.
2. FIRE HYDRANTS ON MAINS UNDER CONSTRUCTION SHALL BE SECURELY WRAPPED WITH A POLY WRAP BAG AND TAPED INTO PLACE. THE POLY WRAP SHALL BE REMOVED WHEN THE MAINS ARE ACCEPTED AND BROUGHT INTO SERVICE. ALL FIRE LINES SHALL BE DUCTILE IRON.
3. ALL WATER SERVICE, WASTEWATER SERVICE, AND VALVE LOCATIONS SHALL BE APPROPRIATELY MARKED AS FOLLOWS:
A. WATER SERVICE "W" ON TOP OF CURB
B. VALVE "V" ON TOP OF CURB OR VALVE SIGN AS INSTRUCTED BY CITY ENGINEER
4. TOOLS FOR MARKING CURBS SHALL BE PROVIDED BY THE CONTRACTOR. OTHER APPROPRIATE MEANS OF MARKING SERVICE AND VALVE LOCATIONS SHALL BE PROVIDED IN AREAS WITHOUT CURBS. SUCH MEANS OF MARKING SHALL BE SPECIFIED BY THE ENGINEER AND APPROVED BY THE CITY OF HUTTO.
5. THRUST BLOCKING AND RESTRAINTS SHALL BE IN ACCORDANCE WITH CITY OF HUTTO STANDARD SPECIFICATIONS.
6. HYDROSTATIC PRESSURE AND LEAKAGE TESTS SHALL BE PERFORMED ON ALL PRESSURE PIPELINES CARRYING WATER.
7. ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI.
8. PIPE MATERIAL FOR WATER MAINS SHALL BE PVC (AWWA C900/C905, MIN. DR 14), OR DUCTILE IRON (AWWA C151, MIN. CLASS 350). WATER SERVICES (2' OR SMALLER) SHALL BE POLYETHYLENE TUBING (BLACK, 200 PSI, DR 9).
9. ALL DUCTILE IRON PIPE (D.I.P) SHALL BE WRAPPED WITH EIGHT (8) MIL, BLACK VIRGIN POLYETHYLENE WRAP AS SPECIFIED IN ANSI/AWWA C105/A21.5.
10. ALL D.I.P. SHALL BE LINED WITH VIRGIN POLYETHYLENE CONFORMING TO ASTM D-1248; 40 MIL THICKNESS (NOMINAL), 35 MILS (MINIMUM), LINER TO BE POLYBOND OR EQUAL, AT ANY POINT WHERE D.I.P. CANNOT BE WRAPPED IN POLYETHYLENE, COAT THE EXTERIOR WITH POLYBOND OR APPROVED EQUAL.
11. ALL PVC PIPE (ALL TYPES AND SDR/DR WALL THICKNESS TO BE USED) SHALL HAVE RUBBER GASKET EQUIPPED BELL AND SPIGOT JOINTS CONFORMING TO ASTM D-3212. THE GASKET MATERIAL SHALL CONFORM TO ASTM F-477. SOLVENT WELDED JOINTS WILL NOT BE APPROVED FOR THIS PROJECT.
12. ALL POTABLE WATERLINES AND SANITARY SEWER FACILITIES MUST BE INSTALLED SO AS TO PROVIDE A MINIMUM OF NINE FEET OF CLEARANCE IN ANY DIRECTION BETWEEN THEM. WHERE THE NINE FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, FOLLOW THESE SPECIAL PROCEDURES.
A. IF A COLLECTION SYSTEM PIPE PARALLELS A PUBLIC WATER SUPPLY PIPE THE FOLLOWING REQUIREMENTS APPLY:
I. A COLLECTION SYSTEM PIPE MUST BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC MEETING ASTM SPECIFICATIONS WITH AT LEAST 150 POUNDS PER SQUARE INCH (PSI) PRESSURE RATING FOR BOTH THE PIPE AND JOINTS.
II. VERTICAL SEPARATION MUST BE AT LEAST TWO FEET BETWEEN THE OUTSIDE DIAMETERS OF THE PIPES.
III. HORIZONTAL SEPARATION MUST BE AT LEAST FOUR FEET BETWEEN OUTSIDE DIAMETERS OF THE PIPES.
IV. COLLECTION SYSTEM PIPE MUST BE BELOW WATER SUPPLY PIPE.
B. IF A COLLECTION SYSTEM PIPE CROSSES A PUBLIC WATER SUPPLY PIPE, THE FOLLOWING REQUIREMENTS APPLY:
I. IF A COLLECTION SYSTEM IS CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC WITH A MINIMUM PRESSURE RATING OF 150 PSI, THE FOLLOWING REQUIREMENTS APPLY:
A. A MINIMUM DISTANCE OF SIX (6) INCHES BETWEEN OUTSIDE DIAMETERS OF THE PIPES.
B. A COLLECTION SYSTEM PIPE MUST BE BELOW A PUBLIC WATER SUPPLY PIPE.
C. COLLECTION SYSTEM PIPE JOINTS MUST BE LOCATED AS FAR AS POSSIBLE FROM AN INTERSECTION WITH A PUBLIC WATER SUPPLY LINE.
II. IF A COLLECTION SYSTEM CROSSES OVER A PUBLIC WATER SUPPLY PIPE, EACH PORTION OF A COLLECTION SYSTEM PIPE WITHIN NINE FEET OF A PUBLIC WATER SUPPLY PIPE MUST BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC PIPE WITH A PRESSURE RATING OF AT LEAST 150 PSI USING APPROPRIATE ADAPTERS.
13. THE CONTRACTOR MUST OBTAIN A TEMPORARY WATER METER FROM THE CITY OF HUTTO UTILITY BILLING DEPARTMENT FOR ALL WATER USED DURING CONSTRUCTION.
14. CONTRACTOR TO SCHEDULE WATER VALVE CLOSURE THROUGH CITY OF HUTTO: DEPARTMENT OF PUBLIC WORKS UTILITY DIVISION WITH ADVANCE NOTICE OF 7 DAYS. CONTRACTOR TO CONTACT PUBLIC WORKS AT PHONE #912-759-4016 AND NOTIFY CONSTRUCTION INSPECTOR. WATER VALVE CLOSURE WILL ONLY BE SCHEDULED FOR TUESDAY THROUGH THURSDAY. CONTRACTOR TO NOTIFY ALL BUSINESSES AND RESIDENTS AFFECTED BY VALVE CLOSURES. CLOSURES MUST BE COORDINATED TO MINIMIZE EFFECTS ON EXISTING CUSTOMERS WITH CONSIDERATIONS GIVEN TO BUSINESSES THAT REQUIRE WATER TO MAINTAIN OPERATIONS.
15. LINE FLUSHING OR ANY ACTIVITY USING A LARGE QUANTITY OF WATER MUST BE SCHEDULED WITH THE CITY OF HUTTO. CONTRACTOR WILL BE RESPONSIBLE FOR TRACKING THE AMOUNT OF WATER USED DURING FLUSHING AND BE REQUIRED TO REIMBURSE THE CITY FOR WATER USE, IF NOT ALREADY METRED.
16. THE CONTRACTOR, AT HIS EXPENSE, SHALL PERFORM STERILIZATION OF ALL POTABLE WATER LINES AND SHALL PROVIDE ALL EQUIPMENT NECESSARY (INCLUDING TEST GAGES), SUPPLIES (INCLUDING CONCENTRATED CHLORINE DISINFECTION MATERIAL) AND NECESSARY LABOR REQUIRED FOR THE STERILIZATION PROCEDURE. THE STERILIZATION PROCEDURE SHALL BE MONITORED BY THE ENGINEER AND A CITY OF HUTTO CONSTRUCTION INSPECTOR. WATER SAMPLES WILL BE COLLECTED TO VERIFY EACH TREATED LINE HAS ATTAINED AN INITIAL CHLORINE CONCENTRATION OF 50 PPM.
17. AN INDEPENDENT QUALIFIED LAB, AT THE CONTRACTOR'S EXPENSE, SHALL PERFORM QUALITY TESTING FOR ALL WASTEWATER PIPE INSTALLED AND PRESSURE HYDROSTATIC TESTING OF ALL WATER LINES CONSTRUCTED. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT (INCLUDING PUMPS AND GAGES), SUPPLIES, AND LABOR NECESSARY TO PERFORM THE TESTS. A CITY OF HUTTO CONSTRUCTION INSPECTOR MUST BE PRESENT FOR ALL TESTING.
18. THE CONTRACTOR SHALL PROVIDE THE ENGINEER AND THE CITY NOT LESS THAN 24 HOURS NOTICE PRIOR TO PERFORMING STERILIZATION, QUALITY TESTING, OR PRESSURE TESTING.
19. THE CONTRACTOR SHALL NOT OPEN OR CLOSE ANY VALVES UNLESS AUTHORIZED BY THE CITY OF HUTTO.
20. ALL VALVE BOXES AND COVERS SHALL BE CAST IRON PER CITY OF HUTTO STANDARD DETAILS.
21. ALL MANHOLES SHALL BE CONCRETE WITH CAST IRON RING AND COVER. ALL MANHOLES LOCATED OUTSIDE OF PAVEMENT SHALL HAVE BOLTED AND GASKETED COVERS. CONCRETE MANHOLES TO BE COATED PER STANDARD DETAIL AND CONSTRUCTION SPECIFICATIONS. TAPPING OF FIBERGLASS MANHOLES SHALL NOT BE PERMITTED.
22. ALL FIRE LINES SHALL BE DUCTILE IRON PIPE (AWWA C-100, CLASS 200).
23. ALL FIRE HYDRANTS SHALL BE SILVER IN COLOR INCLUDING BONNET AND INSTALLED PER CITY OF HUTTO STANDARD DETAIL.
24. ALL WATER PIPING AND FITTINGS SHALL BE VIRGIN STOCK.
25. ALL MECHANICAL RESTRAINTS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
26. ALONG STATE HIGHWAYS, WATER LINES ARE REQUIRED ON BOTH SIDES OF THE ROADWAY. NEW WATER LINES CROSSING EXISTING STREETS SHALL BE PLACED BY BORING. A STEEL CASING SHALL BE REQUIRED UNDER MAJOR AND MINOR COLLECTOR ROADWAYS, ARTERIAL ROADWAYS, AND STATE HIGHWAY. OPEN CUT EXCAVATION WILL NOT BE ALLOWED TO CROSS EXISTING STREETS, UNLESS APPROVED BY THE CITY ENGINEER.
27. ALL NEW WATER PIPES MUST HAVE DETECTABLE TAPE PER CITY OF HUTTO STANDARD DETAIL.
28. ALL AUTOMATIC FLUSH VALVES MUST USE A METER TO MEASURE WATER LOSS.
29. TRACER WIRE WILL BE TESTED AND MUST WORK CORRECTLY BEFORE CITY ACCEPTANCE OF INFRASTRUCTURE. TRACER WIRE MUST BE ENCASED IN PIPE.
30. ALL REDUCED SIZE TAPS SHALL BE MADE USING AN EPOXY COATED FABRICATED STEEL TAPPING SLEEVE WITH STAINLESS STEEL BOLTS, OR A STAINLESS STEEL FULL CIRCLE TAPPING SLEEVE WITH DUCTILE IRON FLANGE.

CITY OF HUTTO
WASTEWATER NOTES
(UPDATED AUGUST 2018)

1. WASTEWATER SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF HUTTO ENGINEERING DESIGN MANUAL, STANDARD SPECIFICATIONS AND STANDARD DETAILS.
2. NO CURVILINEAR WASTEWATER DESIGN/LAYOUT IS PERMITTED.
3. ALL WASTEWATER SERVICE, AND VALVE LOCATIONS SHALL BE APPROPRIATELY MARKED AS FOLLOWS:
A. WASTEWATER SERVICE "S" ON TOP OF CURB
B. VALVE "V" ON TOP OF CURB
4. TOOLS FOR MARKING CURBS SHALL BE PROVIDED BY THE CONTRACTOR. OTHER APPROPRIATE MEANS OF MARKING SERVICE AND VALVE LOCATIONS SHALL BE PROVIDED IN AREAS WITHOUT CURBS. SUCH MEANS OF MARKING SHALL BE SPECIFIED BY THE DESIGN ENGINEER AND APPROVED BY THE CITY OF HUTTO.
5. THRUST BLOCKING AND RESTRAINTS SHALL BE IN ACCORDANCE WITH CITY OF HUTTO STANDARD SPECIFICATIONS.
6. MANDREL TESTING WILL BE REQUIRED ON ALL WASTEWATER PIPE AS PER CITY OF HUTTO CONSTRUCTION SPECIFICATIONS.
7. ALL GRAVITY WASTEWATER MAINS TO BE FIELD-TESTED FOR WATER TIGHTNESS AND VIDEO TAPED BY CAMERA NO SOONER THAN 30-DAYS AFTER TOTAL COMPLETION OF WASTEWATER LINES. TWO DIGITAL COPIES SHALL BE PROVIDED TO THE CITY BEFORE CLOSOUT.
8. HYDROSTATIC PRESSURE AND LEAKAGE TESTS SHALL BE PERFORMED ON ALL PRESSURE PIPELINES CARRYING WASTEWATER.
9. ALL MANHOLES SHALL BE TESTED FOR LEAKAGE SEPARATELY AND INDEPENDENTLY OF WASTEWATER LINES BY HYDROSTATIC EXFILTRATION TESTING OR OTHER CITY APPROVED METHOD PER CITY OF HUTTO CONSTRUCTION SPECIFICATIONS.
10. EXISTING MANHOLES SHALL BE TESTED FOR LEAKAGE PRIOR TO CORING OR ADJUSTMENT.
11. EXISTING MANHOLES SHALL HAVE ALL CONCRETE SURFACES CLEANED AND COATED PER CITY OF HUTTO WASTEWATER DETAILS AFTER CORING OR ADJUSTMENT.
12. ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE / NATIONAL SANITATION FOUNDATION STANDARD 61 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI.
13. PIPE MATERIAL FOR PRESSURE WASTEWATER MAINS SHALL BE PVC (AWWA C900, MIN. DR 14), OR DUCTILE IRON (AWWA C151, MIN. CLASS 350). DUCTILE IRON FOR PRESSURE WASTEWATER MAINS SHALL HAVE A CORROSION RESISTANT INTERIOR LINING ACCEPTABLE TO OWNER. PIPE MATERIAL FOR GRAVITY WASTEWATER MAINS SHALL BE PVC SDR-26, ASTM D-3034.
14. ALL PVC PIPE (ALL TYPES AND SDR/DR WALL THICKNESS TO BE USED) SHALL HAVE RUBBER GASKET EQUIPPED BELL AND SPIGOT JOINTS CONFORMING TO ASTM D-3212. THE GASKET MATERIAL SHALL CONFORM TO ASTM F-477. SOLVENT WELDED JOINTS WILL NOT BE APPROVED FOR THIS PROJECT.
15. ALL SANITARY SEWER FACILITIES AND POTABLE WATERLINES MUST BE INSTALLED SO AS TO PROVIDE A MINIMUM OF NINE FEET OF CLEARANCE IN ANY DIRECTION BETWEEN THEM. WHERE THE NINE FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, FOLLOW THESE SPECIAL PROCEDURES.
A. IF A COLLECTION SYSTEM PIPE PARALLELS A PUBLIC WATER SUPPLY PIPE THE FOLLOWING REQUIREMENTS APPLY:
I. A COLLECTION SYSTEM PIPE MUST BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC MEETING ASTM SPECIFICATIONS WITH AT LEAST 150 POUNDS PER SQUARE INCH (PSI) PRESSURE RATING FOR BOTH THE PIPE AND JOINTS.
II. VERTICAL SEPARATION MUST BE AT LEAST TWO FEET BETWEEN THE OUTSIDE DIAMETERS OF THE PIPES.
III. HORIZONTAL SEPARATION MUST BE AT LEAST FOUR FEET BETWEEN OUTSIDE DIAMETERS OF THE PIPES.
IV. COLLECTION SYSTEM PIPE MUST BE BELOW WATER SUPPLY PIPE.
B. IF A COLLECTION SYSTEM PIPE CROSSES A PUBLIC WATER SUPPLY PIPE, THE FOLLOWING REQUIREMENTS APPLY:
I. IF A COLLECTION SYSTEM IS CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC WITH A MINIMUM PRESSURE RATING OF 150 PSI, THE FOLLOWING REQUIREMENTS APPLY:
A. A MINIMUM DISTANCE OF SIX (6) INCHES BETWEEN OUTSIDE DIAMETERS OF THE PIPES.
B. A COLLECTION SYSTEM PIPE MUST BE BELOW A PUBLIC WATER SUPPLY PIPE.
C. COLLECTION SYSTEM PIPE JOINTS MUST BE LOCATED AS FAR AS POSSIBLE FROM AN INTERSECTION WITH A PUBLIC WATER SUPPLY LINE.
II. IF A COLLECTION SYSTEM CROSSES OVER A PUBLIC WATER SUPPLY PIPE, EACH PORTION OF A COLLECTION SYSTEM PIPE WITHIN NINE FEET OF A PUBLIC WATER SUPPLY PIPE MUST BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC PIPE WITH A PRESSURE RATING OF AT LEAST 150 PSI USING APPROPRIATE ADAPTERS.
16. AN INDEPENDENT QUALIFIED LAB, AT THE CONTRACTOR'S EXPENSE, SHALL PERFORM QUALITY TESTING FOR ALL WASTEWATER PIPE INSTALLED AND PRESSURE HYDROSTATIC TESTING OF ALL WATER LINES CONSTRUCTED. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT (INCLUDING PUMPS AND GAGES), SUPPLIES, AND LABOR NECESSARY TO PERFORM THE TESTS. A CITY OF HUTTO CONSTRUCTION INSPECTOR MUST BE PRESENT FOR ALL TESTING.
17. THE CONTRACTOR SHALL PROVIDE THE DESIGN ENGINEER AND THE CITY NOT LESS THAN 24 HOURS NOTICE PRIOR TO PERFORMING STERILIZATION, QUALITY TESTING, OR PRESSURE TESTING.
18. THE CONTRACTOR SHALL NOT OPEN OR CLOSE ANY VALVES UNLESS AUTHORIZED BY THE CITY OF HUTTO.
19. ALL VALVE BOXES AND COVERS SHALL BE CAST IRON PER CITY OF HUTTO STANDARD DETAILS.
20. ALL MANHOLES SHALL BE CONCRETE WITH CAST IRON RING AND COVER. ALL MANHOLES LOCATED OUTSIDE OF PAVEMENT SHALL HAVE BOLTED AND GASKETED COVERS. CONCRETE MANHOLES TO BE COATED PER STANDARD DETAIL AND CONSTRUCTION SPECIFICATIONS. TAPPING OF FIBERGLASS MANHOLES SHALL NOT BE PERMITTED.
21. ALL WASTEWATER PIPING AND FITTINGS SHALL BE VIRGIN STOCK.
22. ALL MECHANICAL RESTRAINTS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

CITY OF HUTTO
EROSION, SEDIMENTATION AND TREE PROTECTION NOTES
(UPDATED AUGUST 2018)

1. THE CONTRACTOR TO INSTALL AND MAINTAIN EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING, GRADING, OR EXCAVATION). CONTRACTOR TO REMOVE EROSION/SEDIMENTATION CONTROLS AT THE COMPLETION OF THE PROJECT AND GRASS RESTORATION.
2. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS TO BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN AND WATER POLLUTION ABATEMENT PLAN. DEVIATIONS FROM THE APPROVED PLAN MUST BE SUBMITTED TO AND APPROVED BY THE OWNER'S REPRESENTATIVE.
3. ALL PLANTING SHALL BE DONE BETWEEN MAY 1ST AND SEPTEMBER 15TH EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING. IF PLANTING IS AUTHORIZED TO BE DONE OUTSIDE THE DATE SPECIFIED, THE SEED SHALL BE PLANTED WITH THE ADDITION OF WINTER FESCUE (KENTUCKY 31) AT A RATE OF 100 LBS/ACRE. GRASS SHALL BE COMMON BERMUJA GRASS, HULLED, MINIMUM 82% PURE LIVE SEED. ALL GRASS SEED SHALL BE FREE FROM NOXIOUS WEED, GRADE "A" RECENT CROP, CLEANED AND TREATED WITH APPROPRIATE FUNGICIDE AT TIME OF MIXING. SEED SHALL BE FURNISHED IN SEALED, STANDARD CONTAINERS WITH DEALER'S GUARANTEED ANALYSIS.
4. ALL DISTURBED AREAS TO BE RESTORED AS NOTED IN THE WATER POLLUTION ABATEMENT PLAN.
5. THE PLANTED AREA TO BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF FOUR INCHES (4"). THE IRRIGATION TO OCCUR AT 10-DAY INTERVALS DURING THE FIRST TWO MONTHS TO INSURE GERMINATION AND ESTABLISHMENT OF THE GRASS. RAINFALL OCCURRENCES OF ONE HALF AND INCH (1/2") OR GREATER TO POSTPONE THE WATER SCHEDULE ONE WEEK.
6. RESTORATION TO BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST ONE AND ONE HALF INCHES (1.5") HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN TWENTY-FIVE SQUARE FEET EXIST.
7. A MINIMUM OF FOUR INCHES (4") OF TOPSOIL TO BE PLACE IN ALL AREAS DISTURBED BY CONSTRUCTION.
8. THE CONTRACTOR TO HYDRO MULCH OR SOD (AS SHOWN ON PLANS) ALL EXPOSED CUTS AND FILLS UPON COMPLETION OF CONSTRUCTION.
9. EROSION AND SEDIMENTATION CONTROLS TO BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILDUP WITHIN TREE DRIP LINE.
10. TO AVOID SOIL COMPACTION, CONTRACTOR SHALL NOT ALLOW VEHICULAR TRAFFIC, PARKING, OR STORAGE OF EQUIPMENT OR MATERIALS IN THE TREE DRIP LINE AREA.
11. WHERE A FENCE IS CLOSER THAN FOUR FEET (4') TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF EIGHT FEET (8'), OR THE LIMITS OF LOWER BRANCHING, IN ADDITION TO THE FENCING.
12. TREES TO BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
13. ANY ROOT EXPOSED BY THE CONSTRUCTION ACTIVITY TO BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREA WITH GOOD QUALITY TOPSOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN TWO DAYS, COVER THEM WITH ORGANIC MATTER IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
14. CONTRACTOR TO PRUNE VEGETATION TO PROVIDE CLEARANCE FOR STRUCTURE, VEHICULAR TRAFFIC, AND EQUIPMENT BEFORE DAMAGE OCCURS (RIPPING OF BRANCHES, ETC.). ALL FINISHED PRUNING TO BE DONE ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY (REFERENCE THE "NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES").
15. THE CONTRACTOR IS TO INSPECT THE CONTROLS AT WEEKLY INTERVALS AND AFTER EVERY RAINFALL EXCEEDING ONE-QUARTER INCH (1/4") TO VERIFY THAT THEY HAVE NOT BEEN SIGNIFICANTLY DISTURBED. ANY ACCUMULATED SEDIMENT AFTER A SIGNIFICANT RAINFALL TO BE REMOVED AND PLACED IN THE OWNER DESIGNATED SPOIL DISPOSAL SITE. THE CONTRACTOR TO CONDUCT PERIODIC INSPECTIONS OF ALL EROSION/SEDIMENTATION CONTROLS AND TO MAKE ANY REPAIRS OR MODIFICATIONS NECESSARY TO ASSURE CONTINUED EFFECTIVE OPERATION OF EACH DEVICE.
16. WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, TREE WELL, OR OTHER SUCH SITE DEVELOPMENT IMMEDIATELY ADJACENT TO A PROTECTED TREE, ERECT THE FENCE APPROXIMATELY TWO TO FOUR FEET (2'-4') BEHIND THE AREA IN QUESTION.
17. NO ABOVE AND/OR BELOW GROUND TEMPORARY FUEL STORAGE FACILITIES TO BE STORED ON THE PROJECT SITE.
18. IF EROSION AND SEDIMENTATION CONTROL SYSTEMS ARE EXISTING FROM PRIOR CONTRACTS, OWNER'S REPRESENTATIVE AND THE CONTRACTOR TO EXAMINE THE EXISTING EROSION AND SEDIMENTATION CONTROL SYSTEMS FOR DAMAGE PRIOR TO CONSTRUCTION. ANY DAMAGE TO PREEXISTING EROSION AND SEDIMENTATION CONTROLS NOTED TO BE REPAIRED AT OWNER'S EXPENSE.
19. INTENTIONAL RELEASE OF VEHICLE OR EQUIPMENT FLUIDS ONTO THE GROUND IS NOT ALLOWED. CONTAMINATED SOIL RESULTING FROM ACCIDENTAL SPILL TO BE REMOVED AND DISPOSED OF PROPERLY.

pfluger

HUTTO ISD GYM RENOVATION

HUTTO INDEPENDENT SCHOOL DISTRICT

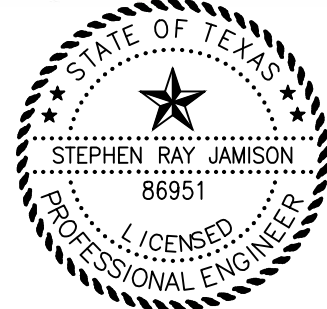
200 COLLEGE STREET
HUTTO, TX 78634

302 COLLEGE ST., HUTTO, TX 78634

office: 512.476.4040 1 fax: 512.476.4289
200 E. Riverside Drive Austin, Texas 78704
pflugarchitects.com

PROJECT NO.	20-038
DATE	02/26/2021
AUTHOR: MM	CHECKED BY: SRJ
REVISIONS:	
△ No.	Date Description
1	
2	
3	
4	
5	
6	

The seal appearing on this document was authorized by
Stephen Ray Jamison
on 03/29/2021



JAMISON CIVIL ENGINEERING LLC

(TX. PE FIRM REG. #F-17756)
13812 RESEARCH BLVD. #B-2
AUSTIN, TEXAS 78750
OFFICE: (737) 484-0880
INFO@JAMISONENG.COM

JCE

BID SET

GENERAL
NOTES

02 of 14

ROBERT A. & JACLYN DEES 0.833 ACRES
DOC. No. 2019035080

LOT A, BLOCK D
PIERCE SUBDIVISION
CAB. GG, SLD. 183

LOT B, BLOCK D
PIERCE SUBDIVISION
CAB. GG, SLD. 183

2.6 ACRES
CITY OF HUTTO
DOC. No. 2005068237

pfluger

office: 512.476.4040 | fax: 512.476.4289
209 E. Riverside Drive Austin, Texas 78704
pflugerarchitects.com

HUTTO ISD GYM RENOVATION

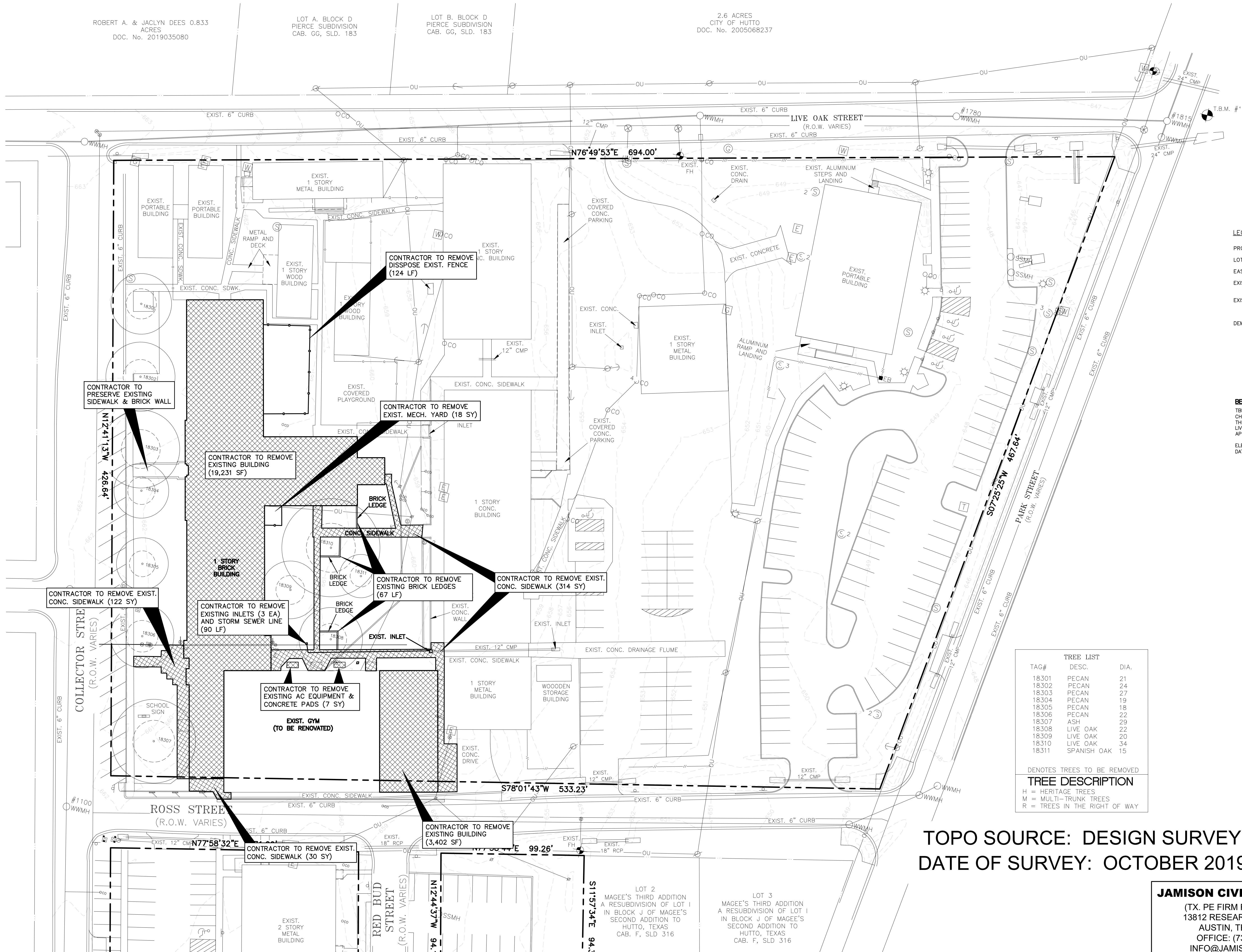
HUTTO INDEPENDENT SCHOOL
DISTRICT

200 COLLEGE STREET
HUTTO, TX 78634

302 COLLEGE ST., HUTTO, TX 78634

EXISTING
CONDITIONS
& DEMOLITION
PLAN
BID SET

03 of 14



SCALE IN FEET
30 15 0 30

LEGEND

- PROPERTY LINE
- LOT LINE
- EASEMENT LINE
- EXISTING CONTOUR LINE
- EXISTING TREE
- DEMOLITION AREA

BENCHMARK:

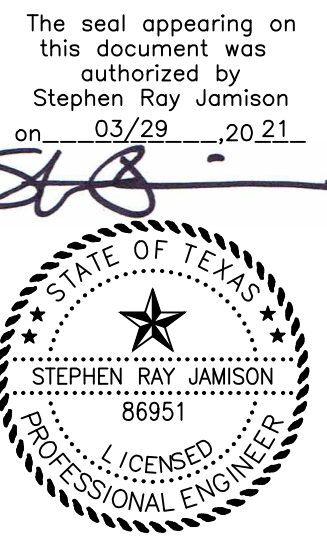
TBM#1: 4" ALUMINUM DISK SET IN CONCRETE FOR CHAPARRAL CONTROL POINT "R061", LOCATED AT THE NORTHEASTERN SIDE OF THE BOUNDARY WHERE LIVE OAK STREET AND PARK STREET INTERSECT, APPROXIMATELY 7.7' FROM THE BACK OF CURB.

ELEVATION = 646.78'
DATUM: NAVD 88 (GEOID 18)

TREE LIST		
TAG#	DESC.	DIA.
18301	PECAN	21
18302	PECAN	24
18303	PECAN	27
18304	PECAN	19
18305	PECAN	18
18306	PECAN	22
18307	ASH	29
18308	LIVE OAK	22
18309	LIVE OAK	20
18310	LIVE OAK	34
18311	SPANISH OAK	15

DEMOTES TREES TO BE REMOVED

TREE DESCRIPTION	
H	= HERITAGE TREES
M	= MULTI-TRUNK TREES
R	= TREES IN THE RIGHT OF WAY



TOPO SOURCE: DESIGN SURVEY
DATE OF SURVEY: OCTOBER 2019

JAMISON CIVIL ENGINEERING LLC
(TX. PE FIRM REG. #F-17756)
13812 RESEARCH BLVD. #B-2
AUSTIN, TEXAS 78750
OFFICE: (737) 484-0880
INFO@JAMISONENG.COM

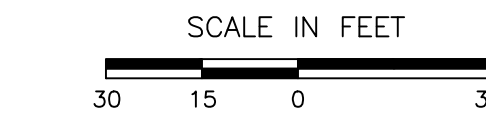
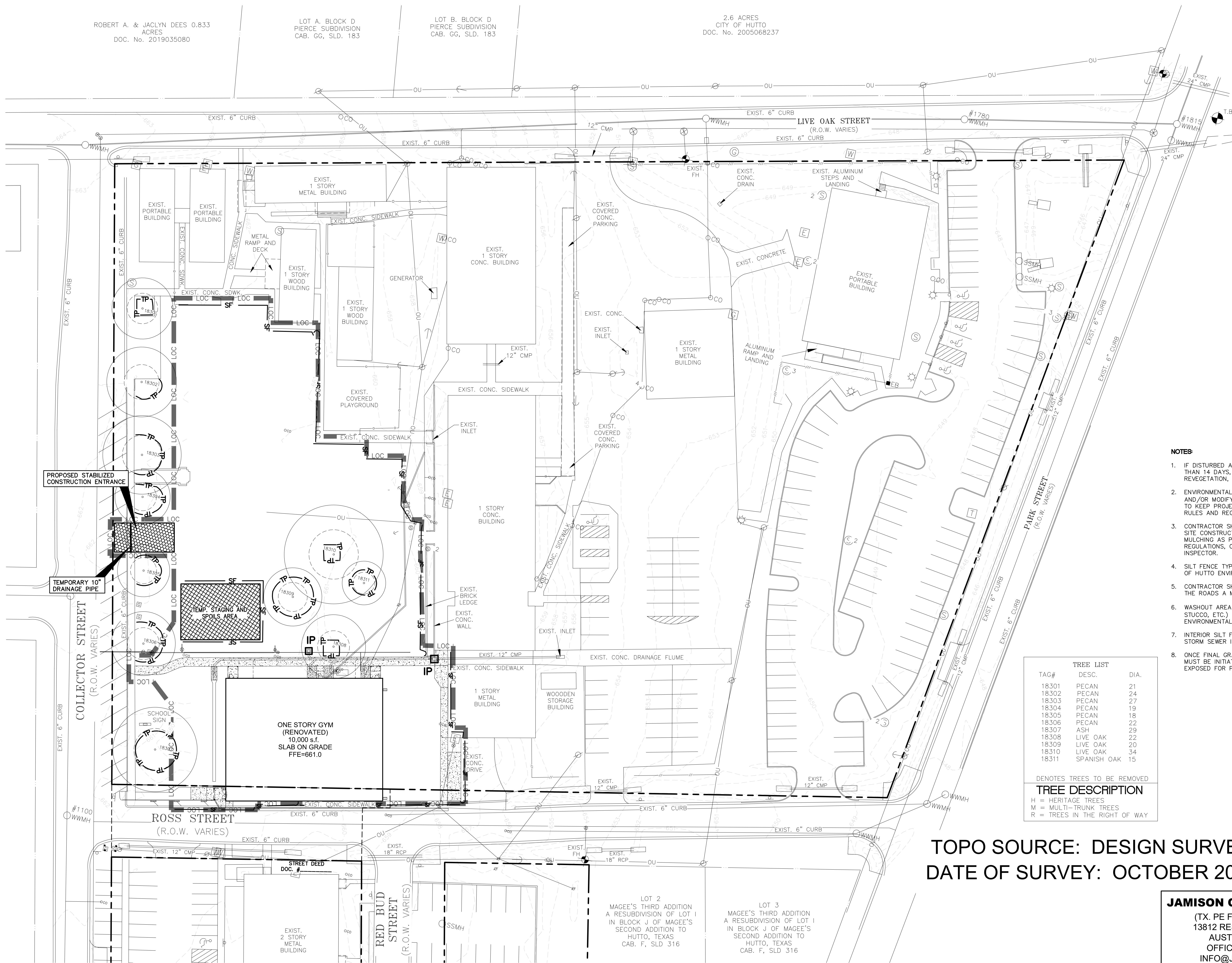
JCE

ROBERT A. & JACLYN DEES 0.833
ACRES
DOC. No. 2019035080

LOT A, BLOCK D
PIERCE SUBDIVISION
CAB. GG, SLD. 183

LOT B, BLOCK D
PIERCE SUBDIVISION
CAB. GG, SLD. 183

2.6 ACRES
CITY OF HUTTO
DOC. No. 2005068237



LEGEND

- PROPERTY LINE
ADJACENT PROPERTY LINE
EASEMENT LINE
EXISTING CONTOUR LINE
LIMITS OF CONSTRUCTION
SILT FENCE (100' MAX. CONTINUOUS RUN)
TEMPORARY STAGING AND SPOILS AREA
STABILIZED CONSTRUCTION ENTRANCE
EXISTING TREE W/ TREE PROTECTION
EXISTING TREE TO BE REMOVED

NOTES

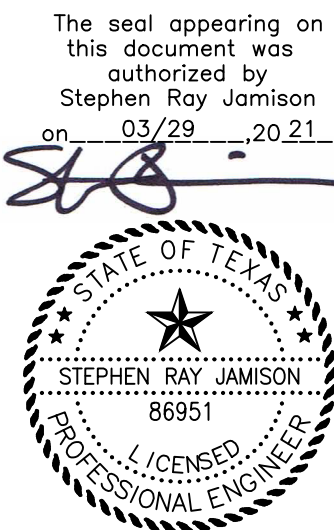
- IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY REVEGETATION, MULCH, TARP OR REVEGETATION MATTING.
- ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN COMPLIANCE WITH THE CITY OF HUTTO RULES AND REGULATIONS.
- CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES DURING SITE CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING AS PER CITY OF HUTTO ENVIRONMENTAL REGULATIONS, OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.
- SILT FENCE TYPE AND INSTALLATION SHALL COMPLY WITH CITY OF HUTTO ENVIRONMENTAL REGULATIONS.
- CONTRACTOR SHALL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A MINIMUM OF ONCE DAILY.
- WASHOUT AREA LOCATION (FOR CONCRETE MIXERS, PAINT, STUCCO, ETC.) TO BE SET DURING PRE-CON MEETING WITH ENVIRONMENTAL INSPECTOR.
- INTERIOR SILT FENCE TO BE REMOVED AFTER INSTALLATION OF STORM SEWER IS COMPLETE.
- ONCE FINAL GRADE IS ACHIEVED, PERMANENT STABILIZATION MUST BE INITIATED WITHIN 7 DAYS TO LIMIT TIME SOIL IS EXPOSED FOR POTENTIAL EROSION.

TREE LIST		
TAG#	DESC.	DIA.
18301	PECAN	21
18302	PECAN	24
18303	PECAN	27
18304	PECAN	19
18305	PECAN	18
18306	PECAN	22
18307	ASH	29
18308	LIVE OAK	22
18309	LIVE OAK	20
18310	LIVE OAK	34
18311	SPANISH OAK	15

18311 DENOTES TREES TO BE REMOVED

TREE DESCRIPTION

H = HERITAGE TREES
M = MULTI-TRUNK TREES
R = TREES IN THE RIGHT OF WAY



TOPO SOURCE: DESIGN SURVEY
DATE OF SURVEY: OCTOBER 2019

JAMISON CIVIL ENGINEERING LLC
(TX. PE FIRM REG. #F-17756)
13812 RESEARCH BLVD. #B-2
AUSTIN, TEXAS 78750
OFFICE: (737) 484-0880
INFO@JAMISONENG.COM



HUTTO ISD GYM RENOVATION

HUTTO INDEPENDENT SCHOOL DISTRICT

200 COLLEGE STREET
HUTTO, TX 78634

EROSION
SEDIMENTATION
AND TREE
PROTECTION
PLAN

BID SET

04 of 14

pfluger

office: 512.476.4040 | fax: 512.476.4289
209 E. Riverside Drive Austin, Texas 78704
pflugarchitects.com

GUIDELINES FOR DESIGN AND INSTALLATION OF
TEMPORARY EROSION AND SEDIMENTATION CONTROLS

TYPE OF STRUCTURE	REACH LENGTH	MAXIMUM DRAINAGE AREA	SLOPE
SILT FENCE	N/A	2 ACRES	0 - 10%
	200 FEET	2 ACRES	10 - 20%
	100 FEET	1 ACRE	20 - 30%
	50 FEET	1/2 ACRE	> 30%
TRIANGLE FILTER DIKE	100 FEET	1/2 ACRE	< 30% SLOPE
	50 FEET	1/4 ACRE	> 30% SLOPE
ROCK BERM **, **	500 FEET	< 5 ACRES	0 - 10%

* FOR ROCK BERM DESIGN WHERE PARAMETERS ARE OTHER THAN STATED, DRAINAGE AREA CALCULATIONS AND ROCK BERM DESIGN MUST BE SUBMITTED FOR REVIEW.

** HIGH SERVICE ROCK BERMS MAY BE REQUIRED IN AREAS OF ENVIRONMENTAL SIGNIFICANCE AS DETERMINED BY THE CITY OF GEORGETOWN.

The Architect/Engineer assumes
responsibility for appropriate
use of this standard.

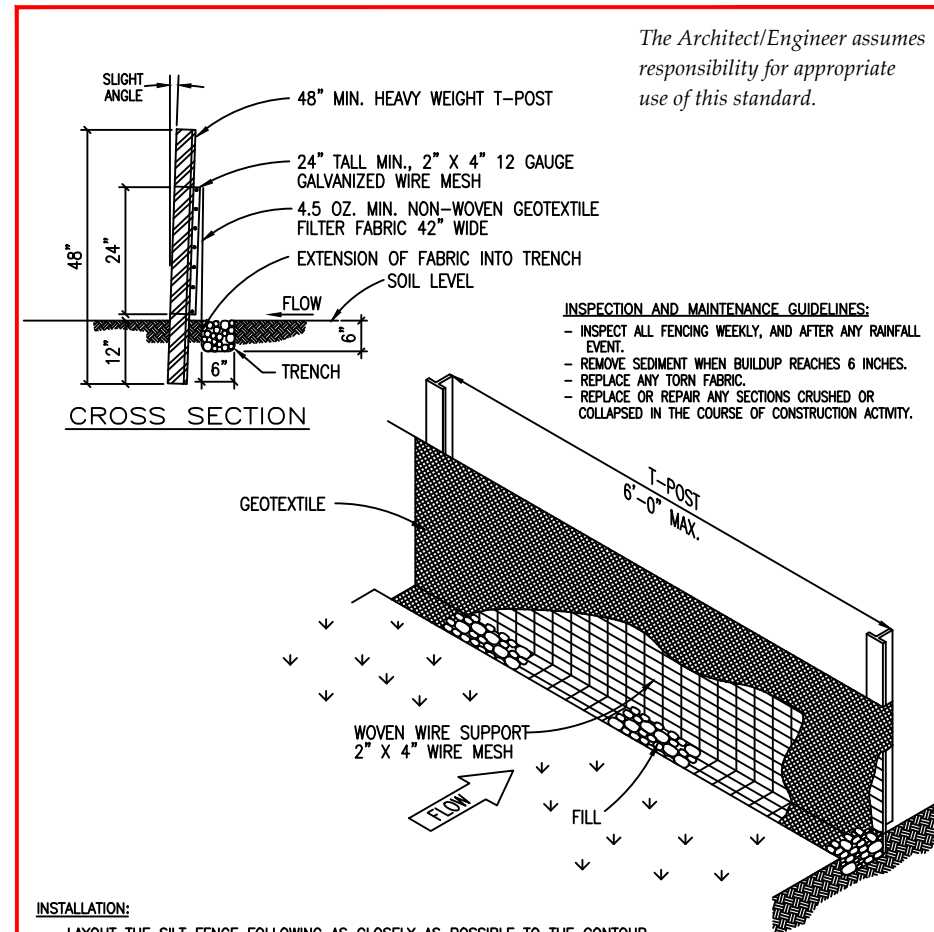


CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
TEMPORARY EROSION AND
SEDIMENTATION CONTROL GUIDELINES

ADOPTED 6/21/2006

ECO1

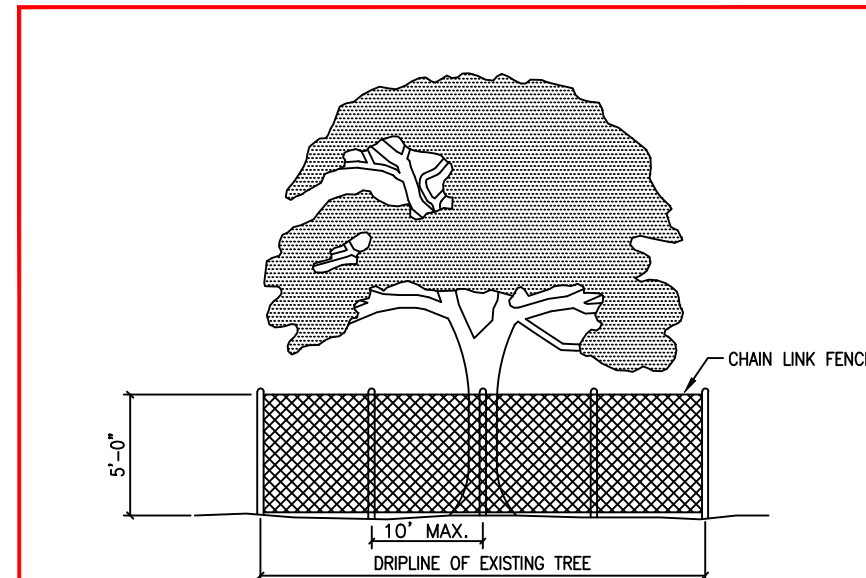
DATE	1/2003
BY	THE



INSTALLATION:

- LAYOUT THE SILT FENCE FOLLOWING AS CLOSELY AS POSSIBLE TO THE CONTOUR.
- CLEAR THE GROUND OF JOBBES, ROCKS, PLANTS (INCLUDING GRASSES TALLER THAN 2") TO UPSTREAM SIDE OF FACE PER PLANE SURFACE. EXCAVATE 6" DEEP X 6" WIDE TRENCH ON DOWNSTREAM SIDE.
- DRIVE THE HEAVY DUTY T-POST AT LEAST 12 INCHES INTO THE GROUND AND AT A SLIGHT ANGLE TOWARDS THE FLOW.
- ATTACH THE 24\"/>

CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS SILT FENCE DETAIL	ADOPTED 6/21/2006	ECO2
DATE	1/2003	
BY	THE	



- NOTES:
1. TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING).
 2. FENCES SHALL COMPLETELY SURROUND THE TREE, OR CLUSTERS OF TREES, WILL BE LOCATED AT THE OUTERMOST LIMIT OF THE TREE BRANCHES (DROPLINE) AND WILL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT IN ORDER TO PREVENT THE FOLLOWING:
 - A. SOIL COMPRESSION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MATERIALS.
 - B. ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN SIX INCHES (6") CUT OR FILL, OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE CITY.
 - C. WOUNDS TO EXPOSED ROOTS, TRUNKS OR LIMBS BY MECHANICAL EQUIPMENT.
 - D. OTHER ACTIVITIES DETRIMENTAL TO TREES, SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING AND FIRE.
 3. EXCEPTIONS TO INSTALLING FENCES AT TREE DROPLINES MAY BE PERMITTED IN THE FOLLOWING CASES:
 - A. WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA.
 - B. WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN SIX FEET (6'-0") TO BUILDING.

The Architect/Engineer assumes
responsibility for appropriate
use of this standard.

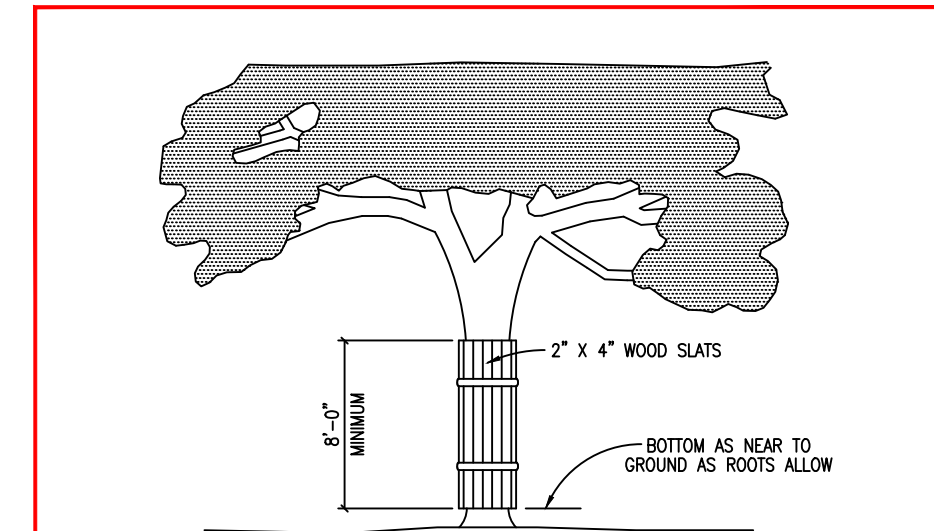


CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
TREE PROTECTION -
CHAIN LINK FENCE

ADOPTED 6/21/2006

ECO9

DATE	1/2003
BY	THE



- NOTES:
1. WHERE ANY EXCEPTIONS RESULT IN A FENCE BEING CLOSER THAN FOUR FEET (4'-0") TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF EIGHT FEET (8'-0"), OR TO THE LIMITS OF LOWER BRANCHING IN ADDITION TO THE REDUCED FENCING PROVIDED.
 2. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN TWO (2) DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE, AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
 3. PRIOR EXCAVATION OR GRADE CUTTING WITHIN TREE DROPLINE, MAKE A CLEAN CUT BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW OR SIMILAR EQUIPMENT, TO MINIMIZE DAMAGE TO REMAINING ROOTS.
 4. TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES SHOULD BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS SHOULD BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.
 5. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
 6. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN FOUR INCHES (4") SHALL BE PERMITTED WITHIN THE DROPLINE OF A TREE. NO SOIL IS PERMITTED ON THE ROOT FLARE OF ANY TREE.
 7. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC AND EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS.

The Architect/Engineer assumes
responsibility for appropriate
use of this standard.

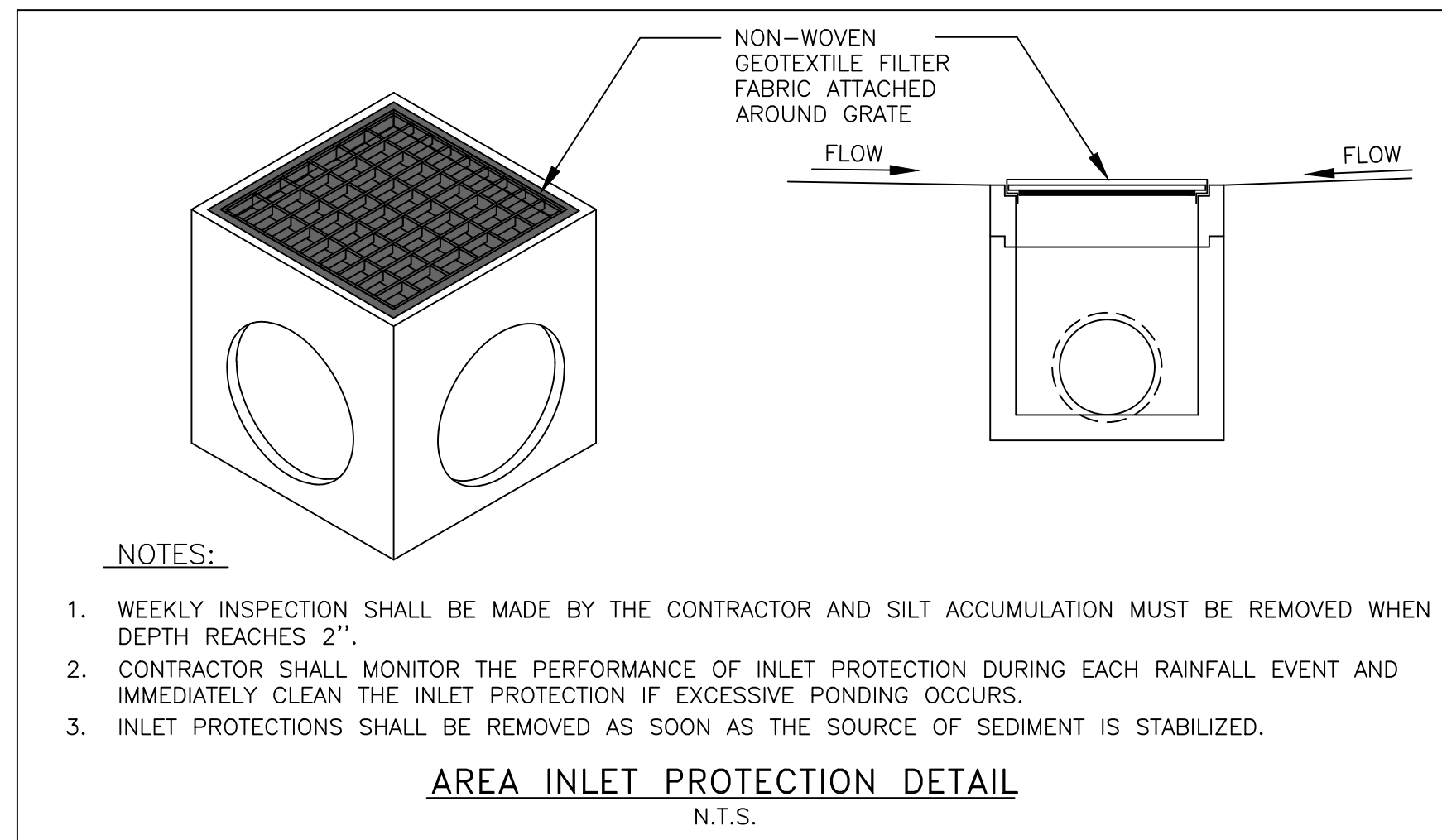


CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
TREE PROTECTION - WOOD SLATS

ADOPTED 6/21/2006

ECO10

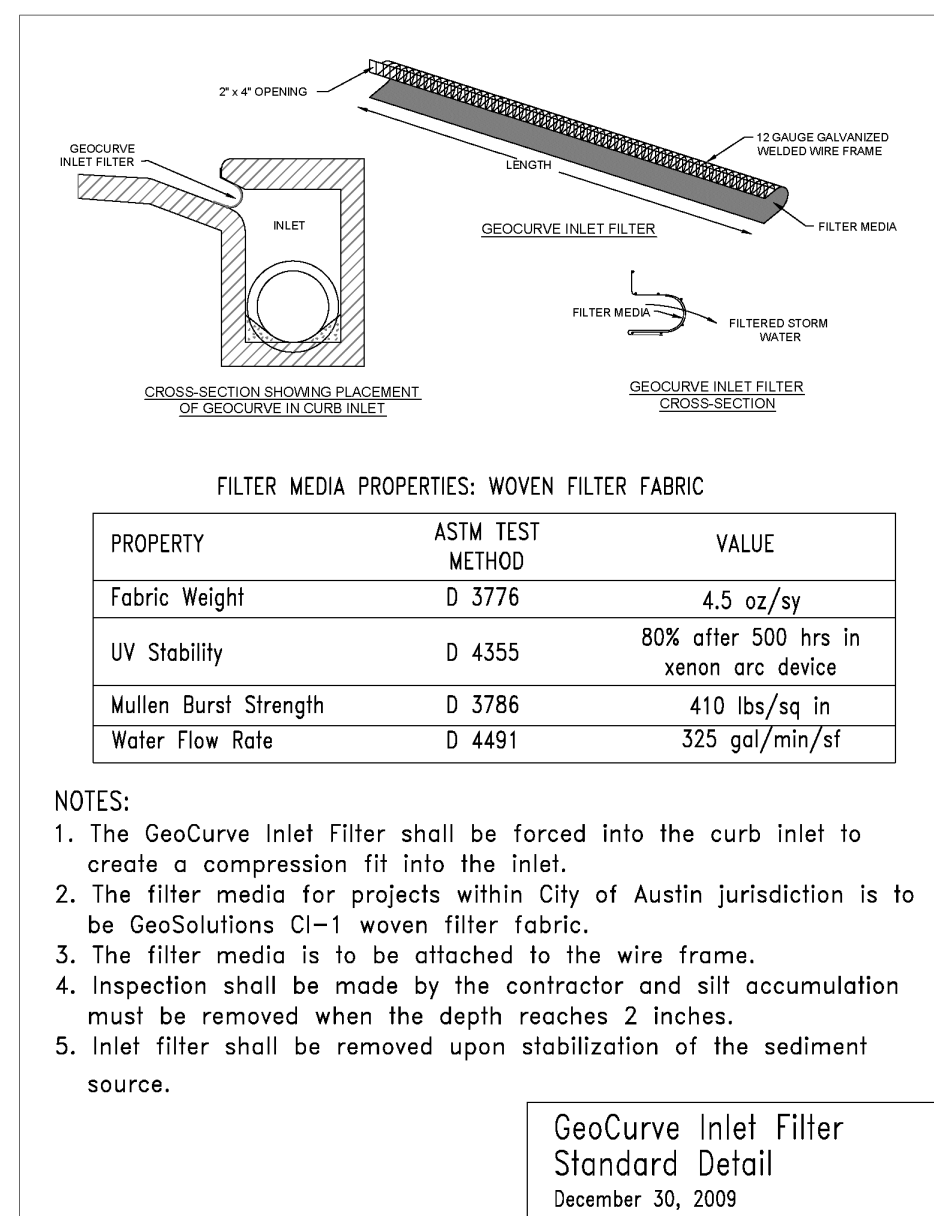
DATE	1/2003
BY	THE



NOTES:

1. WEEKLY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".
2. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY CLEAN THE INLET PROTECTION IF EXCESSIVE PONDING OCCURS.
3. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

AREA INLET PROTECTION DETAIL
N.T.S.

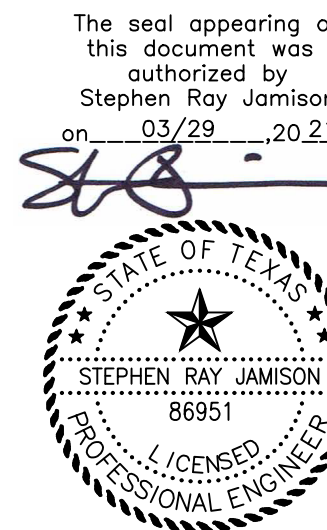


FILTER MEDIA PROPERTIES: WOVEN FILTER FABRIC

PROPERTY	ASTM TEST METHOD	VALUE
Fabric Weight	D 3776	4.5 oz/sy
UV Stability	D 4355	80% after 500 hrs in xenon arc device
Mullen Burst Strength	D 3786	410 lbs/sq in
Water Flow Rate	D 4491	325 gal/min/sf

- NOTES:
1. The GeoCurve Inlet Filter shall be forced into the curb inlet to create a compression fit into the inlet.
 2. The filter media for projects within City of Austin jurisdiction is to be GeoSolutions CI-1 woven filter fabric.
 3. The filter media is to be attached to the wire frame.
 4. Inspection shall be made by the contractor and silt accumulation must be removed when the depth reaches 2 inches.
 5. Inlet filter shall be removed upon stabilization of the sediment source.

GeoCurve Inlet Filter
Standard Detail
December 30, 2009



JAMISON CIVIL ENGINEERING LLC

(TX. PE FIRM REG. #F-17756)
13812 RESEARCH BLVD. #B-2
AUSTIN, TEXAS 78750
OFFICE: (737) 484-0880
INFO@JAMISONENG.COM



HUTTO ISD GYM RENOVATION

HUTTO INDEPENDENT SCHOOL DISTRICT

200 COLLEGE STREET
HUTTO, TX 78634

PROJECT NO. 20-038
DATE 02/26/2021
AUTHOR: MM CHECKED BY: SRJ
REVISIONS:

No.	Date	Description
1		
2		
3		
4		
5		
6		

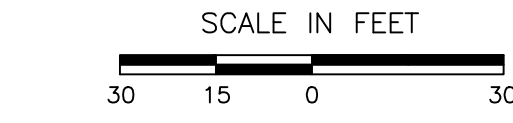
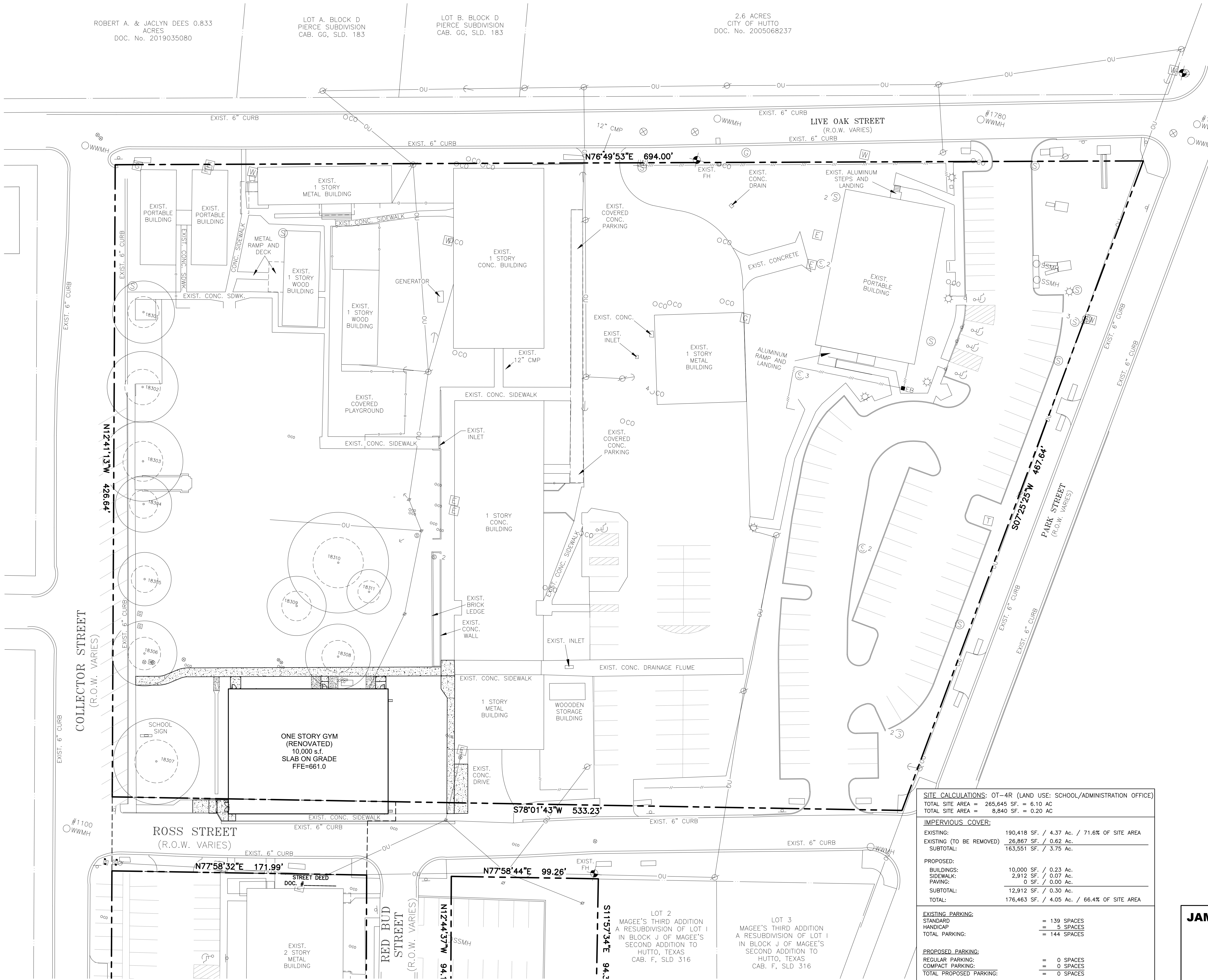
EROSION
SEDIMENTATION
CONTROL
DETAILS

BID SET



office: 512.476.4040 | fax: 512.476.4289
200 E. Riverside Drive Austin, Texas 78704
pflugararchitects.com

302 COLLEGE ST., HUTTO, TX 78634



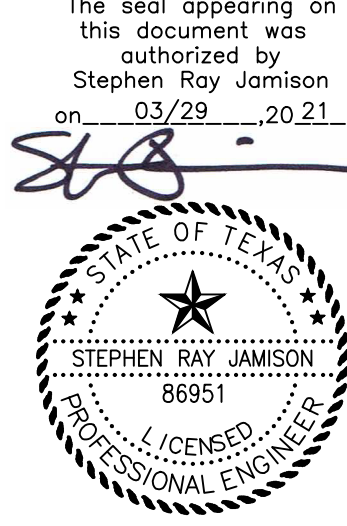
- LEGEND
- PROPERTY LINE
 - ADJACENT PROPERTY LINE
 - EASEMENT LINE

- SITE PLAN NOTES:**
- 6" RAISED CONCRETE CURBS SHALL BE PROVIDED AT THE END OF PARKING BAYS, LANDSCAPED ISLANDS AND AROUND THE PERIMETER OF ALL PARKING & DRIVE AREAS UNLESS OTHERWISE NOTED.
 - ALL CURB RETURNS SHALL BE 3' RADIUS UNLESS OTHERWISE NOTED.
 - THE MAXIMUM HEIGHT FOR PROPOSED BUILDING SHALL NOT EXCEED 40 FEET.
 - THE USE OF COAL TAR BASED ASPHALT SEALANTS FOR CONSTRUCTION OR REPAIR OF ASPHALTIC CONCRETE PAVING IS PROHIBITED ON THIS PROPERTY.
 - RUNNING SLOPE OF ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20' (5.0%). CROSS SLOPE OF ACCESSIBLE ROUTE SHALL NOT EXCEED 1:50' (2.0%). CONTRACTOR TO VERIFY ALL SLOPES PRIOR TO CONSTRUCTION OF ACCESSIBLE ROUTES.
 - THE NOISE LEVEL OF MECHANICAL EQUIPMENT WILL NOT EXCEED 70 DBA AT THE PROPERTY LINE ADJACENT TO RESIDENTIAL USES.
 - A MINIMUM VERTICAL CLEARANCE OF 114" MUST BE PROVIDED AT ACCESSIBLE PASSENGER LOADING ZONES AND ALONG VEHICLE ACCESS ROUTES TO SUCH AREAS FROM SITE ENTRANCES. A MINIMUM VERTICAL CLEARANCE OF 98" MUST BE PROVIDED FOR VAN-ACCESSIBLE PARKING SPACES AND ALONG THE VEHICULAR ROUTE THERE TO.
 - RETAINING WALLS OVER FOUR FEET IN HEIGHT, MEASURED FROM THE BOTTOM OF THE FOOTING TO THE TOP OF THE WALL, SHALL BE ENGINEERED PER IBC 2018 AND WILL REQUIRE A SEPARATE PERMIT. ALL RETAINING WALLS IN AN EASEMENT OR R.O.W. REGARDLESS OF HEIGHT, SHALL BE REVIEWED ACCORDING TO COA TRANSPORTATION CRITERIA MANUAL, CHAPTER 11.
 - ALL EXISTING STRUCTURES WITHIN 50' OF THE SITE ARE SHOWN.
 - ALL ON-SITE UTILITIES SHALL BE LOCATED UNDERGROUND UNLESS REQUIRED BY THE UTILITY TO BE OTHERWISE LOCATED.
 - APPROVAL OF THESE PLANS BY THE CITY OF HUTTO INDICATES COMPLIANCE WITH APPLICABLE CITY REGULATIONS ONLY. APPROVAL BY OTHER GOVERNMENTAL ENTITIES MAY BE REQUIRED PRIOR TO THE START OF CONSTRUCTION. THE APPLICANT IS RESPONSIBLE FOR DETERMINING WHAT ADDITIONAL APPROVALS MAY BE NECESSARY.

- NOTES:**
- NO CONSTRUCTION INVOLVING COMBUSTIBLE MATERIALS SHALL TAKE PLACE UNTIL FIRE APPARATUS ACCESS ROADS AND FIRE HYDRANTS ARE INSTALLED AND OPERATIONAL.
 - NO OVERHEAD OBSTRUCTIONS SHALL BE LOWER THAN 13 FEET 6 INCHES. (2018 IFC SEC. 503.2.1)
 - ALL APPROVED FIRE APPARATUS ACCESS ROADS SHALL BE CAPABLE OF SUPPORTING THE IMPOSED LOAD OF FIRE APPARATUS WEIGHING AT LEAST 75,000 POUNDS. (2018 IFC APPENDIX D SEC. D102.1)

BENCHMARK:
TBM#1: 4" ALUMINUM DISK SET IN CONCRETE FOR CHAPARRAL CONTROL POINT "R061", LOCATED AT THE NORTHEASTERN SIDE OF THE BOUNDARY WHERE LIVE OAK STREET AND PARK STREET INTERSECT, APPROXIMATELY 7.7' FROM THE BACK OF CURB.

ELEVATION = 646.78'
DATUM: NAVD 88 (GEOID 18)



SITE CALCULATIONS: OT-4R (LAND USE: SCHOOL/ADMINISTRATION OFFICE)	
TOTAL SITE AREA =	265,645 SF. = 6.10 AC
TOTAL SITE AREA =	8,840 SF. = 0.20 AC
IMPERVIOUS COVER:	
EXISTING:	190,418 SF. / 4.37 AC. / 71.6% OF SITE AREA
EXISTING (TO BE REMOVED)	26,867 SF. / 0.62 AC.
SUBTOTAL:	163,551 SF. / 3.75 AC.
PROPOSED:	
BUILDINGS:	10,000 SF. / 0.23 AC.
SIDEWALK:	2,912 SF. / 0.07 AC.
PAVING:	0 SF. / 0.00 AC.
SUBTOTAL:	12,912 SF. / 0.30 AC.
TOTAL:	176,463 SF. / 4.05 AC. / 66.4% OF SITE AREA
EXISTING PARKING:	
STANDARD	= 139 SPACES
HANDICAP	= 5 SPACES
TOTAL PARKING:	= 144 SPACES
PROPOSED PARKING:	
REGULAR PARKING:	= 0 SPACES
COMPACT PARKING:	= 0 SPACES
TOTAL PROPOSED PARKING:	= 0 SPACES

JAMISON CIVIL ENGINEERING LLC
(TX. PE FIRM REG. #F-17756)
13812 RESEARCH BLVD. #B-2
AUSTIN, TEXAS 78750
OFFICE: (737) 484-0880
INFO@JAMISONENG.COM

JCE

pfluger
office: 512.476.4040 | fax: 512.476.4289
209 E. Riverside Drive Austin, Texas 78704
pflugerarchitects.com

HUTTO ISD GYM RENOVATION

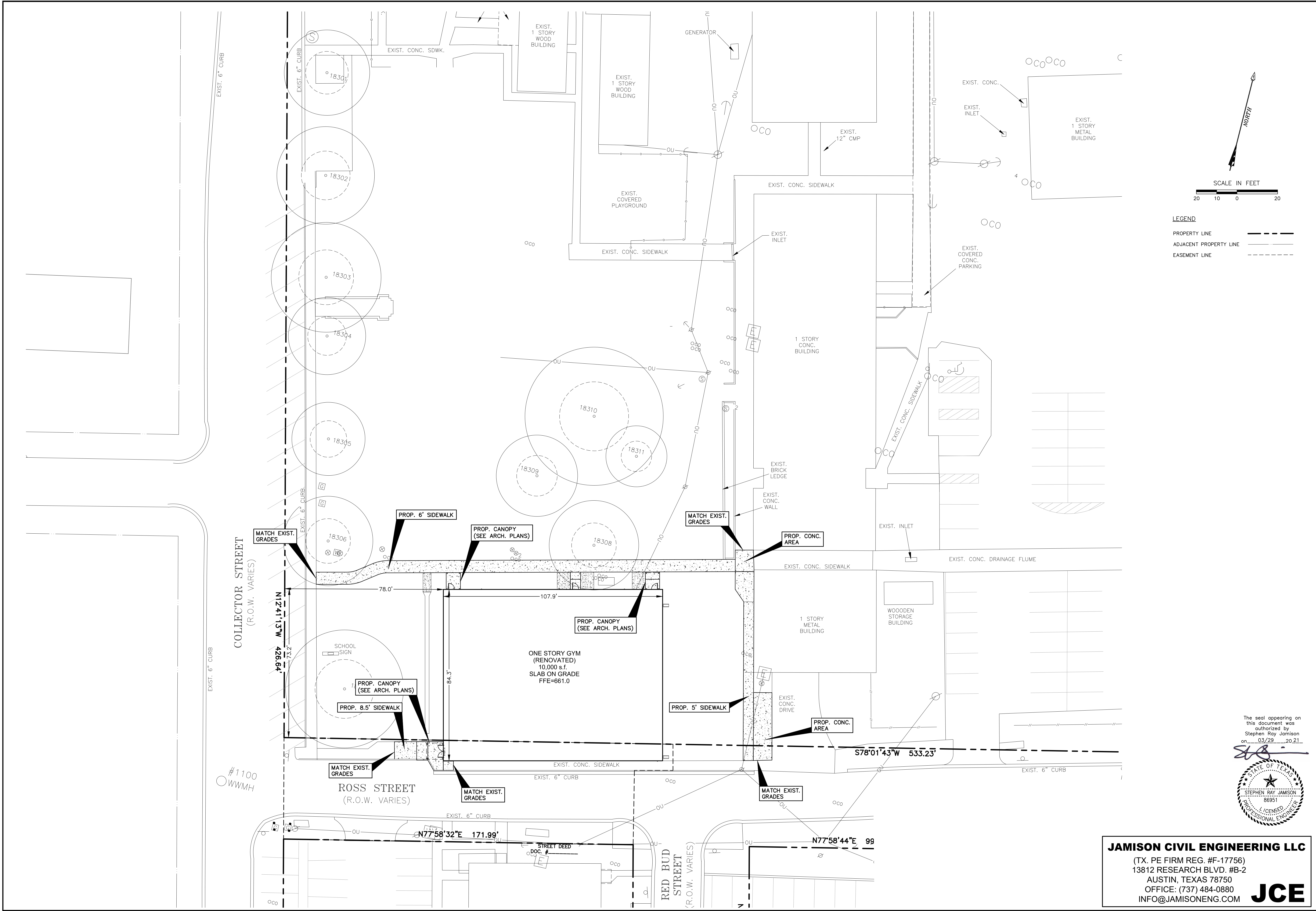
HUTTO INDEPENDENT SCHOOL DISTRICT
200 COLLEGE STREET
HUTTO, TX 78634

PROJECT NO. 20-038
DATE 02/26/2021
AUTHOR: MM CHECKED BY: SRJ
REVISIONS:
1
2
3
4
5
6

OVERALL SITE PLAN

BID SET

06 of 14



pfluger

office: 512.476.4040 | fax: 512.476.4289
209 E. Riverside Drive Austin, Texas 78704
pflugerarchitects.com

HUTTO ISD GYM RENOVATION

HUTTO INDEPENDENT SCHOOL DISTRICT

200 COLLEGE STREET
HUTTO, TX 78634

PROJECT NO. 20-038
DATE 02/26/2021
AUTHOR: MM CHECKED BY: SRJ
REVISIONS:
1. Date Description
2.
3.
4.
5.
6.

The seal appearing on this document was authorized by
Stephen Ray Jamison
on 03/29/2021

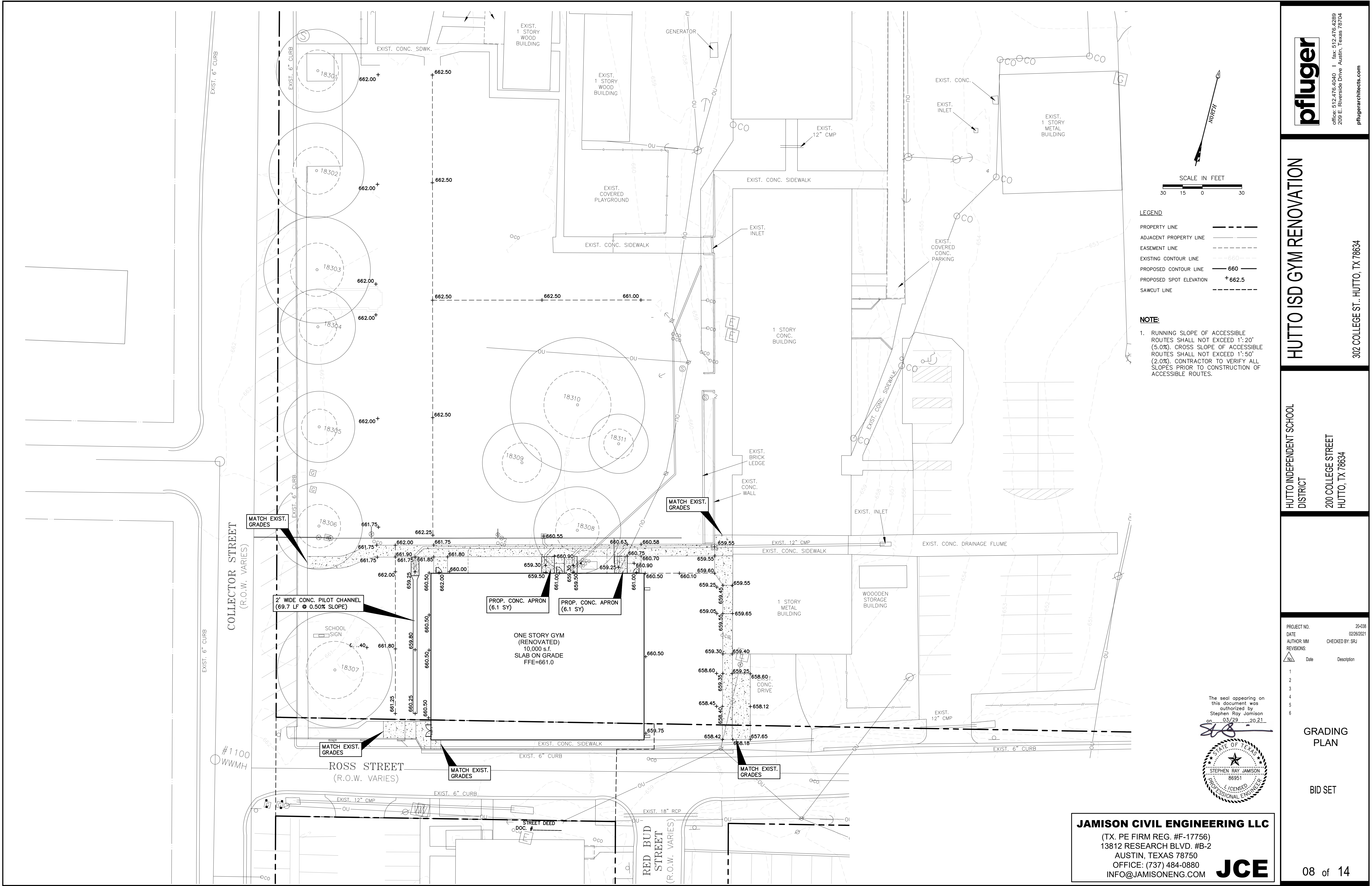
JAMISON CIVIL ENGINEERING LLC
(TX. PE FIRM REG. #F-17756)
13812 RESEARCH BLVD. #B-2
AUSTIN, TEXAS 78750
OFFICE: (737) 484-0880
INFO@JAMISONENG.COM

JCE

SITE PLAN

BID SET

07 of 14



PROJECT NO. 20-038

DATE 02/26/2021

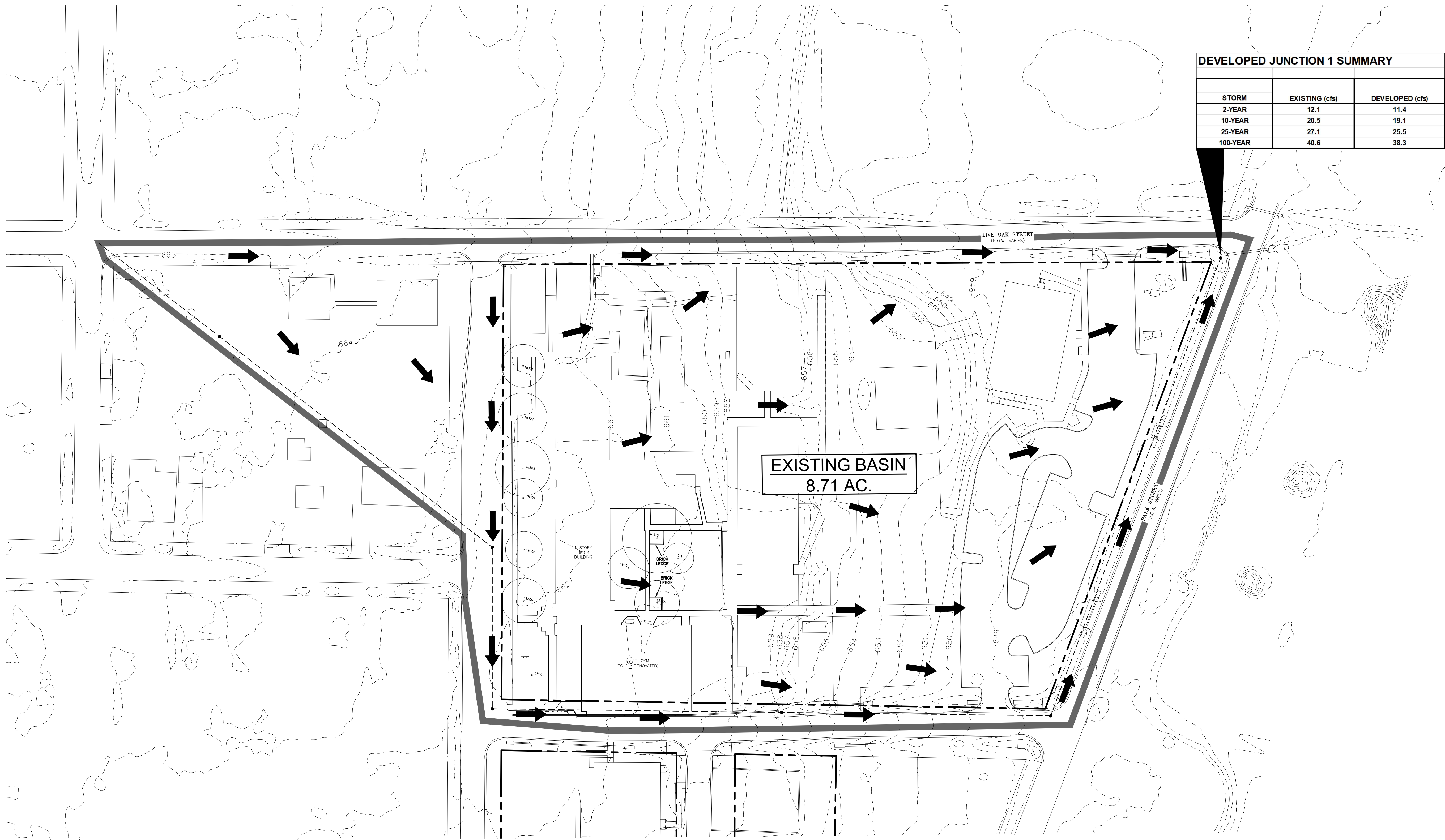
AUTHOR: MM CHECKED BY: SRJ

REVISIONS:

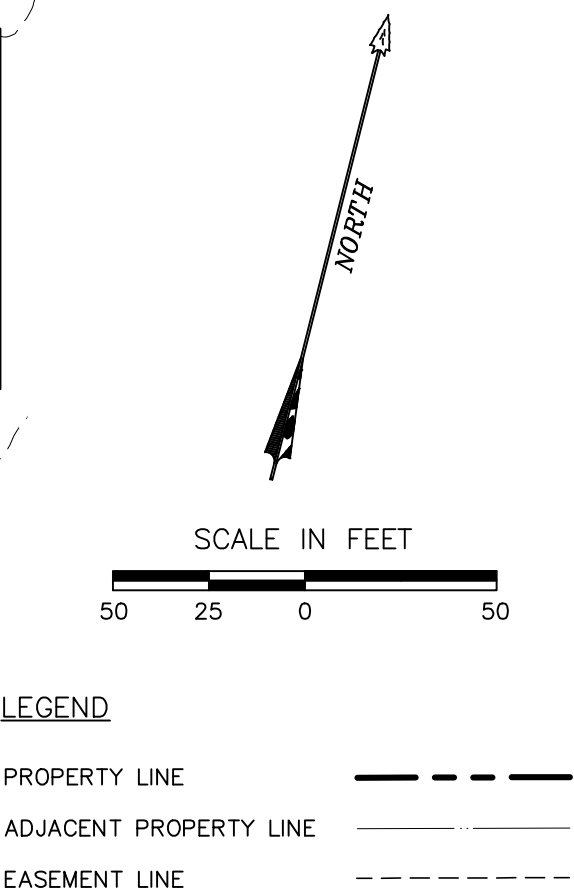
 No.	Date	Description
1		
2		
3		
4		
5		
6		

GRADING PLAN

BID SET



DEVELOPED JUNCTION 1 SUMMARY		
STORM	EXISTING (cfs)	DEVELOPED (cfs)
2-YEAR	12.1	11.4
10-YEAR	20.5	19.1
25-YEAR	27.1	25.5
100-YEAR	40.6	38.3

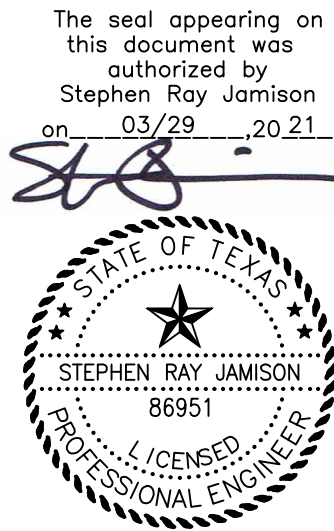


LEGEND	
PROPERTY LINE	---
ADJACENT PROPERTY LINE	---
EASEMENT LINE	---

*ALL DRAINAGE CALCULATIONS UTILIZE ATLAS 14 PRECIPITATION DATA

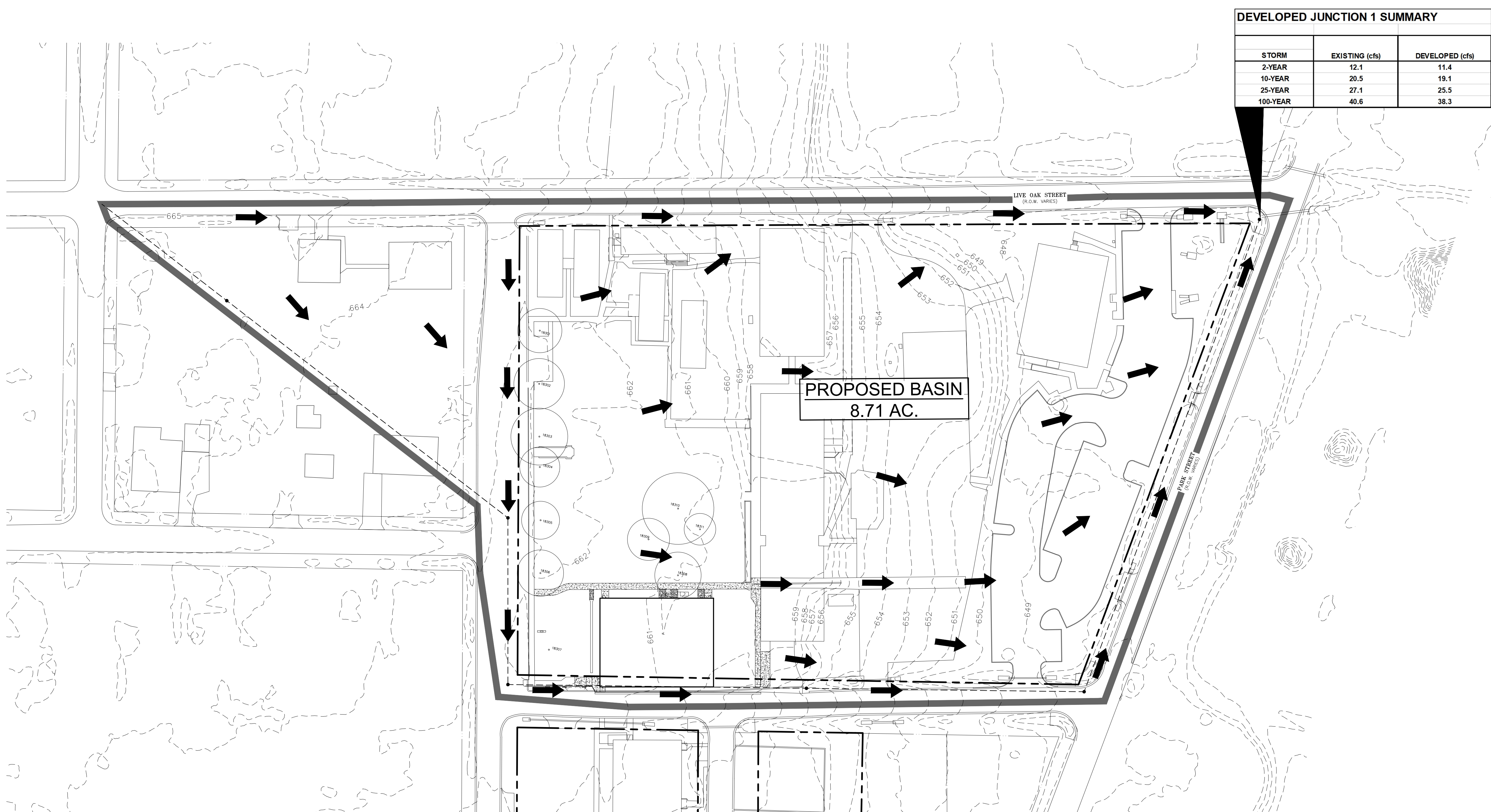
*TOPOGRAPHY SOURCE: WILLIAMSON COUNTY 1' CONTOURS (2017)

EXISTING BASIN								Composite "C" Calculations							
Event	2-yr	10-yr	25-yr	100-yr	Acres	Sq. Ft.		2	10	25	100				
C	0.53	0.60	0.64	0.72	3.52	153,288	40.4%	0.21	0.25	0.29	0.36				
Tc	37.0	37.0	37.0	37.0	5.19	226,236	59.6%	0.75	0.83	0.88	0.97				
I	2.62	3.92	4.87	6.47											
Q	12.1	20.5	27.1	40.6	8.71	379,524	100.0%								
PROPOSED BASIN								Composite "C" Calculations							
Event	2-yr	10-yr	25-yr	100-yr	Acres	Sq. Ft.		2	10	25	100				
C	0.50	0.56	0.60	0.68	4.08	177,528	46.8%	0.21	0.25	0.29	0.36				
Tc	37.0	37.0	37.0	37.0	4.64	201,998	53.2%	0.75	0.83	0.88	0.97				
I	2.62	3.92	4.87	6.47											
Q	11.4	19.1	25.5	38.3	8.71	379,526	100.0%								

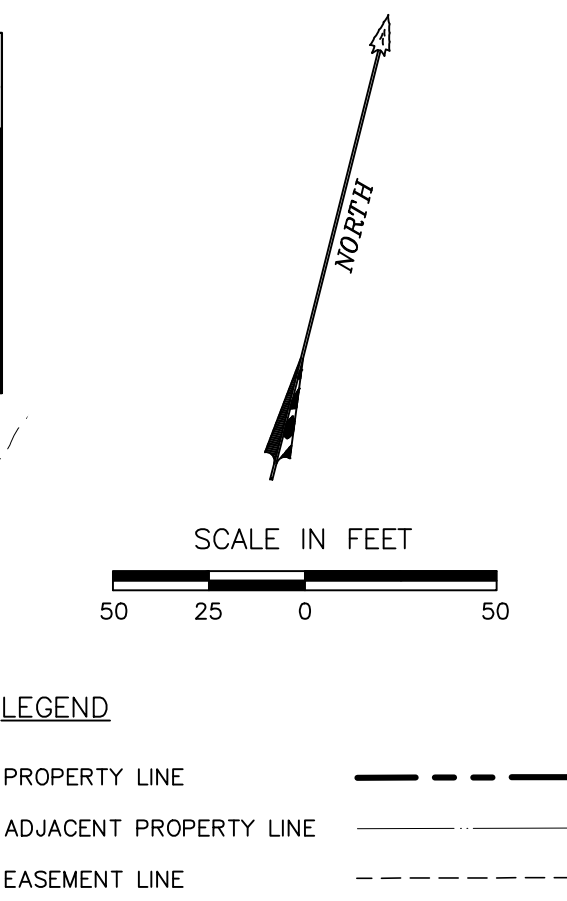


JAMISON CIVIL ENGINEERING LLC
(TX. PE FIRM REG. #F-17756)
13812 RESEARCH BLVD. #B-2
AUSTIN, TEXAS 78750
OFFICE: (737) 484-0880
INFO@JAMISONENG.COM

JCE



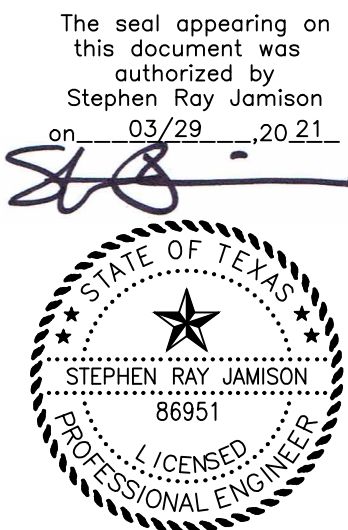
DEVELOPED JUNCTION 1 SUMMARY		
STORM	EXISTING (cfs)	DEVELOPED (cfs)
2-YEAR	12.1	11.4
10-YEAR	20.5	19.1
25-YEAR	27.1	25.5
100-YEAR	40.6	38.3



*ALL DRAINAGE CALCULATIONS UTILIZE
ATLAS 14 PRECIPITATION DATA

*TOPOGRAPHY SOURCE: WILLIAMSON
COUNTY 1' CONTOURS (2017)

EXISTING BASIN							Composite "C" Calculations						
Event	2-yr	10-yr	25-yr	100-yr	Acres	Sq. Ft.			2	10	25	100	
C	0.53	0.60	0.64	0.72	3.52	153,288	40.4%	Grass (0-2%)	0.21	0.25	0.29	0.36	
Tc	37.0	37.0	37.0	37.0	5.19	226,236	59.6%	Concrete	0.75	0.83	0.88	0.97	
I	2.62	3.92	4.87	6.47									
Q	12.1	20.5	27.1	40.6	8.71	379,524	100.0%						
PROPOSED BASIN							Composite "C" Calculations						
Event	2-yr	10-yr	25-yr	100-yr	Acres	Sq. Ft.			2	10	25	100	
C	0.50	0.56	0.60	0.68	4.08	177,528	46.8%	Grass (0-2%)	0.21	0.25	0.29	0.36	
Tc	37.0	37.0	37.0	37.0	4.64	201,998	53.2%	Concrete	0.75	0.83	0.88	0.97	
I	2.62	3.92	4.87	6.47									
Q	11.4	19.1	25.5	38.3	8.71	379,526	100.0%						



JAMISON CIVIL ENGINEERING LLC
(TX. PE FIRM REG. #F-17756)
13812 RESEARCH BLVD. #B-2
AUSTIN, TEXAS 78750
OFFICE: (737) 484-0880
INFO@JAMISONENG.COM

JCE

pfluger

office: 512.476.4040 | fax: 512.476.4289
209 E. Riverside Drive Austin, Texas 78704
pflugarchitects.com

HUTTO ISD GYM RENOVATION

HUTTO INDEPENDENT SCHOOL DISTRICT
200 COLLEGE STREET
HUTTO, TX 78634

PROJECT NO. 20-038
DATE 02/26/2021
AUTHOR: MM CHECKED BY: SRJ
REVISIONS:
1
2
3
4
5
6

PROPOSED CONDITIONS DRAINAGE MAP

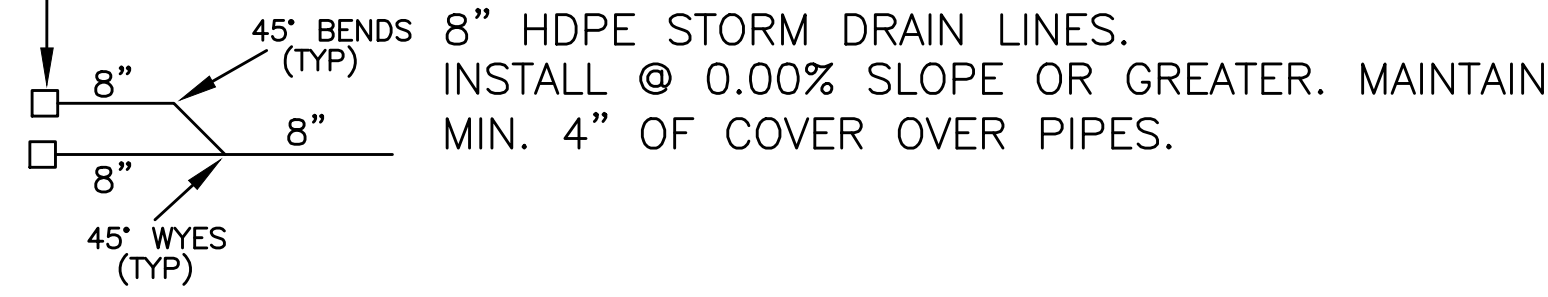
BID SET

302 COLLEGE ST., HUTTO, TX 78634

10 of 14

***DOWNSPOUT CONNECTIONS:**

1. CONNECT EXISTING DOWNSPOUT TO 4' (PAINTED) CAST IRON DOWNSPOUT BOOT CONNECTION.
2. BOOT CONNECTION TO BE ATTACHED TO WALL.
3. CONNECT BOOT TO 8" HDPE PIPE 1' ABOVE FINISHED GRADE (MIN.).
4. ALL PIPE CONNECTIONS SHALL BE WATERTIGHT.



SCALE IN FEET
20 10 0 20

LEGEND

PROPERTY LINE	---
ADJACENT PROPERTY LINE	---
EASEMENT LINE	---
PROPOSED STORM SEWER LINE W/ INLET	---

COLLECTOR STREET
(R.O.W. VARIES)

ROSS STREET
(R.O.W. VARIES)

RED BUD STREET
(R.O.W. VARIES)



JAMISON CIVIL ENGINEERING LLC

(TX. PE FIRM REG. #F-17756)
13812 RESEARCH BLVD. #B-2
AUSTIN, TEXAS 78750
OFFICE: (737) 484-0880
INFO@JAMISONENG.COM

JCE

HUTTO ISD GYM RENOVATION

HUTTO INDEPENDENT SCHOOL DISTRICT

200 COLLEGE STREET
HUTTO, TX 78634

PROJECT NO. 20-038
DATE 02/26/2021
AUTHOR: MM CHECKED BY: SRJ
REVISIONS:

No.	Date	Description
1		
2		
3		
4		
5		
6		

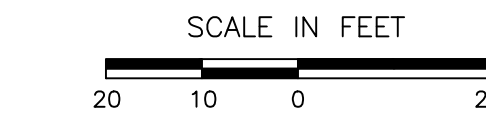
STORM SEWER LAYOUT

BID SET

NOTE:

CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO BEGINNING ANY OTHER WORK. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCY BETWEEN THE PLANS AND EXISTING UTILITIES IN THE FIELD. CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY RE-WORK REQUIRED AS A RESULT OF SUCH DISCREPANCY UNLESS ENGINEER IS NOTIFIED PRIOR TO BEGINNING ANY OTHER WORK.

CONTRACTOR IS RESPONSIBLE FOR ANY/ALL DAMAGE TO EXISTING UTILITIES, APPURTENANCES, SIGNAGE, FLATWORK, ETC. CAUSED BY THE CONSTRUCTION OF THIS PROJECT.



LEGEND

PROPERTY LINE	---
ADJACENT PROPERTY LINE	---
EASEMENT LINE	---
EXISTING CONTOUR LINE	---
PROPOSED WATER LINE	---
PROPOSED WASTEWATER LINE W/ CLEAN OUT	---

pfluger

office: 512.476.4040 | fax: 512.476.4289
209 E. Riverside Drive Austin, Texas 78704
pflugerarchitects.com

HUTTO ISD GYM RENOVATION

302 COLLEGE ST., HUTTO, TX 78634

HUTTO INDEPENDENT SCHOOL DISTRICT

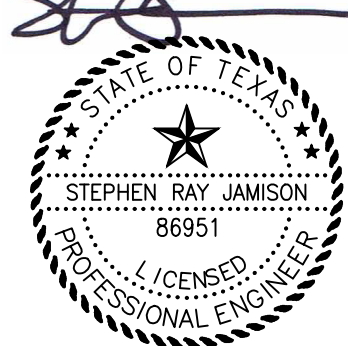
200 COLLEGE STREET
HUTTO, TX 78634

PROJECT NO.	20-038																					
DATE	02/26/2021																					
AUTHOR: MM	CHECKED BY: SRJ																					
REVISIONS:																						
<table><tr><td>No.</td><td>Date</td><td>Description</td></tr><tr><td>1</td><td></td><td></td></tr><tr><td>2</td><td></td><td></td></tr><tr><td>3</td><td></td><td></td></tr><tr><td>4</td><td></td><td></td></tr><tr><td>5</td><td></td><td></td></tr><tr><td>6</td><td></td><td></td></tr></table>	No.	Date	Description	1			2			3			4			5			6			
No.	Date	Description																				
1																						
2																						
3																						
4																						
5																						
6																						

UTILITY PLAN

BID SET

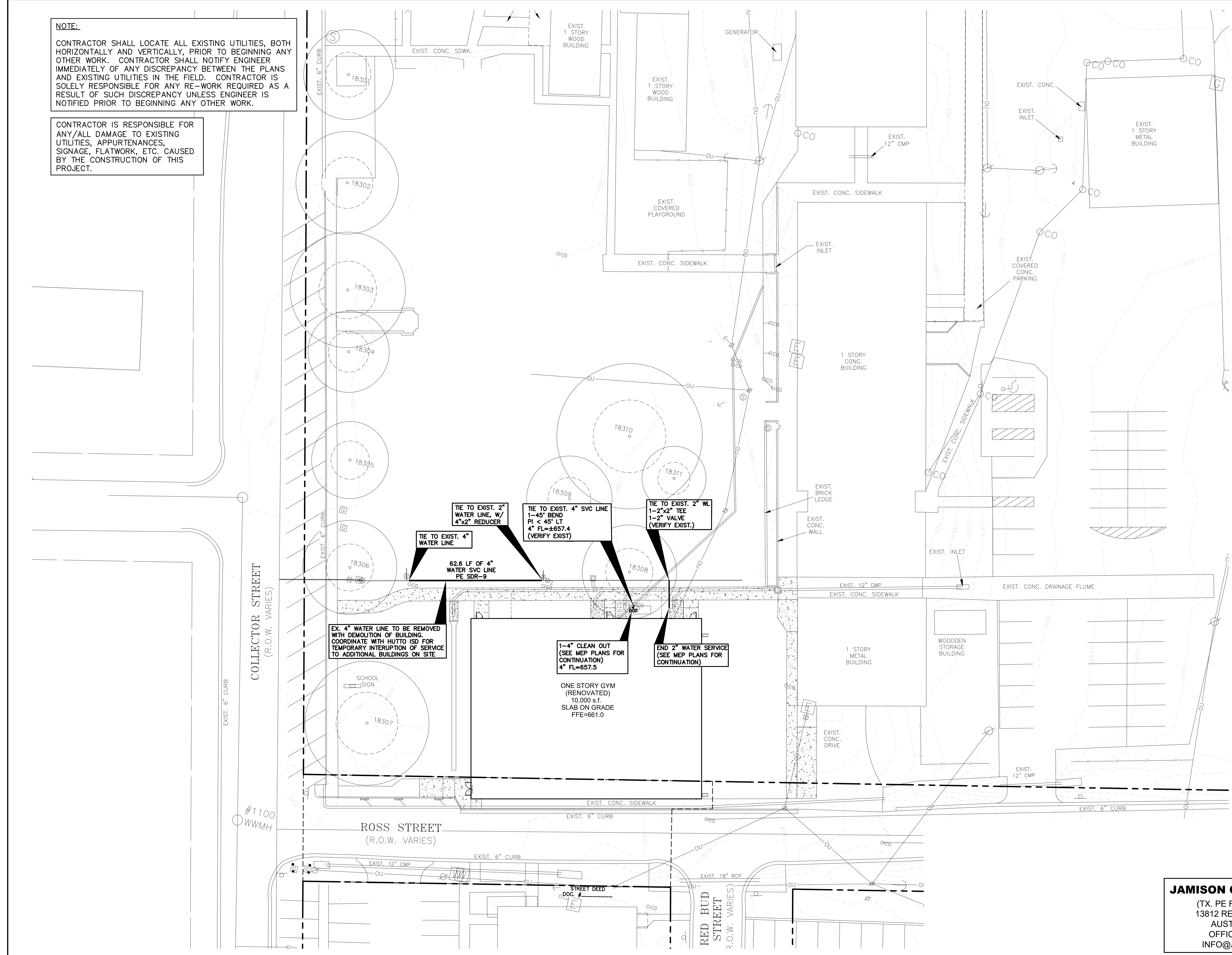
The seal appearing on this document was authorized by
Stephen Ray Jamison
on 03/29/2021

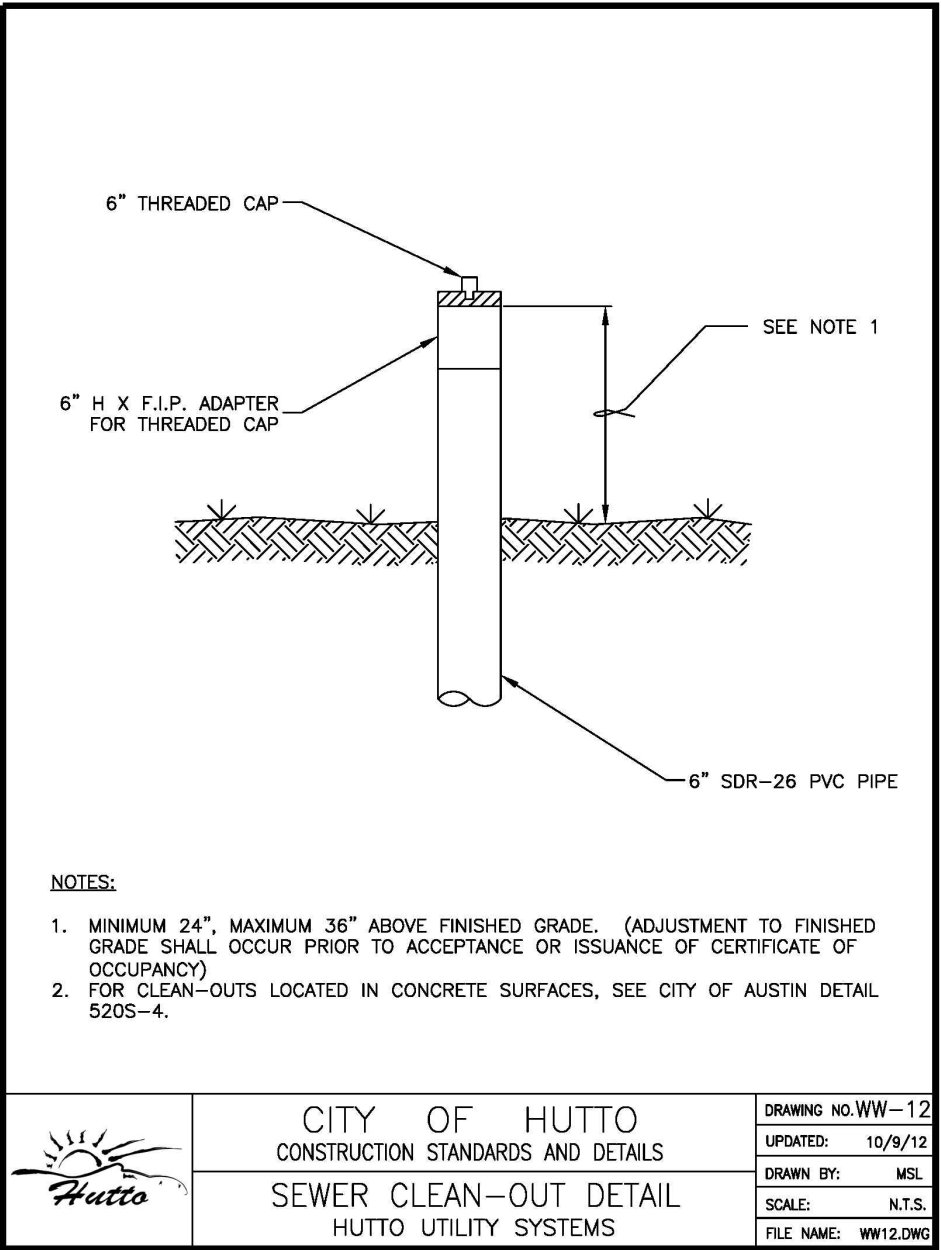
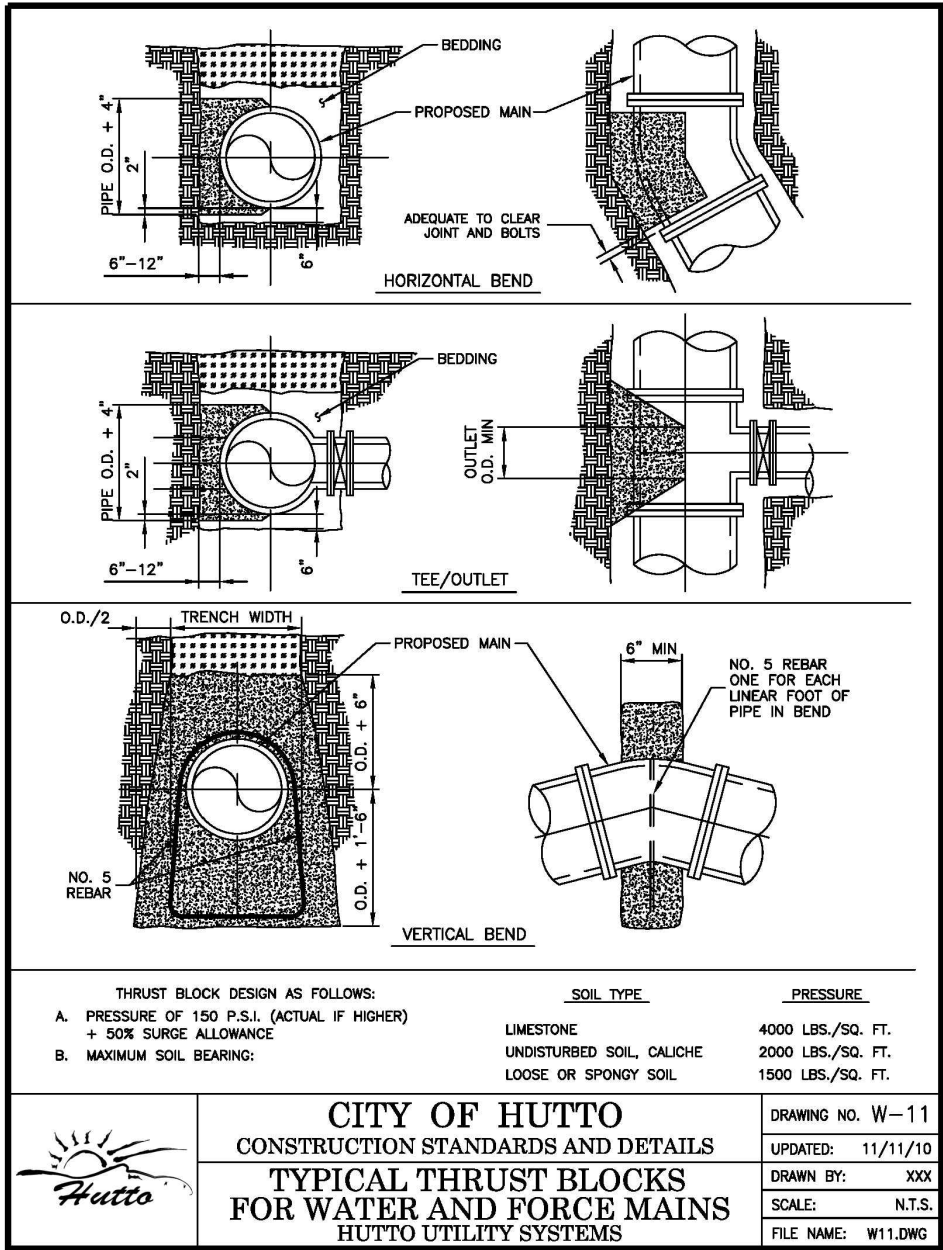
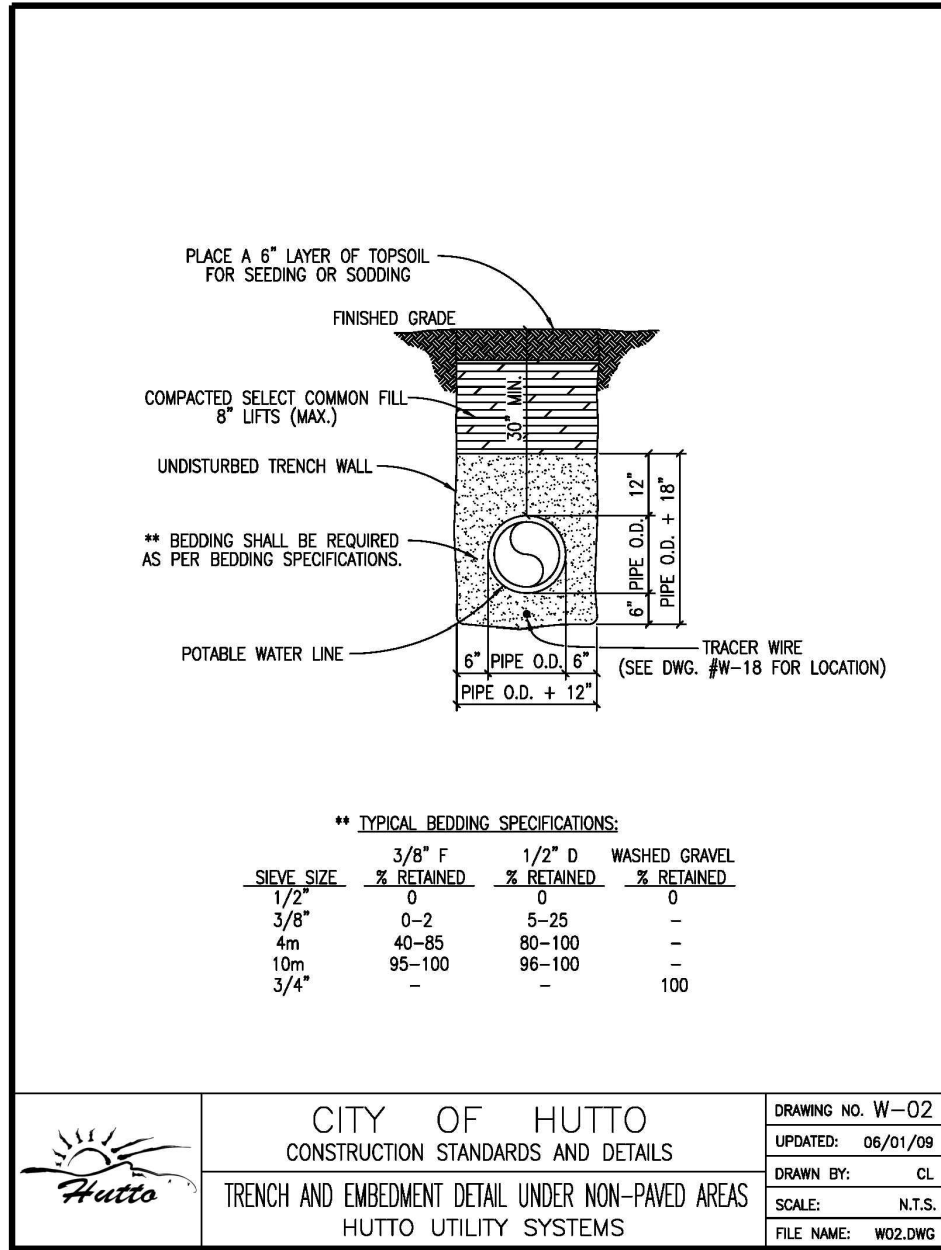


JAMISON CIVIL ENGINEERING LLC

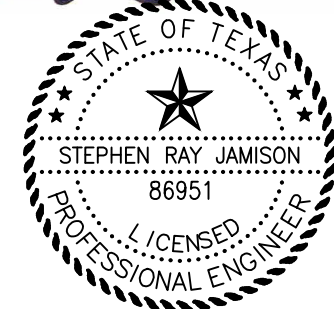
(TX. PE FIRM REG. #F-17756)
13812 RESEARCH BLVD. #B-2
AUSTIN, TEXAS 78750
OFFICE: (737) 484-0880
INFO@JAMISONENG.COM

JCE





JAMISON CIVIL ENGINEERING LLC
(TX. PE FIRM REG. #F-17756)
13812 RESEARCH BLVD. #B-2
AUSTIN, TEXAS 78750
OFFICE: (737) 484-0880
INFO@JAMISONENG.COM



The seal appearing on
this document was
authorized by
Stephen Ray Jamison
on 03/29/2021

HUTTO INDEPENDENT SCHOOL
DISTRICT

200 COLLEGE STREET
HUTTO, TX 78634

HUTTO ISD GYM RENOVATION

pfluger

office: 512.476.4040 | fax: 512.476.4289
209 E. Riverside Drive Austin, Texas 78704
pflugararchitects.com

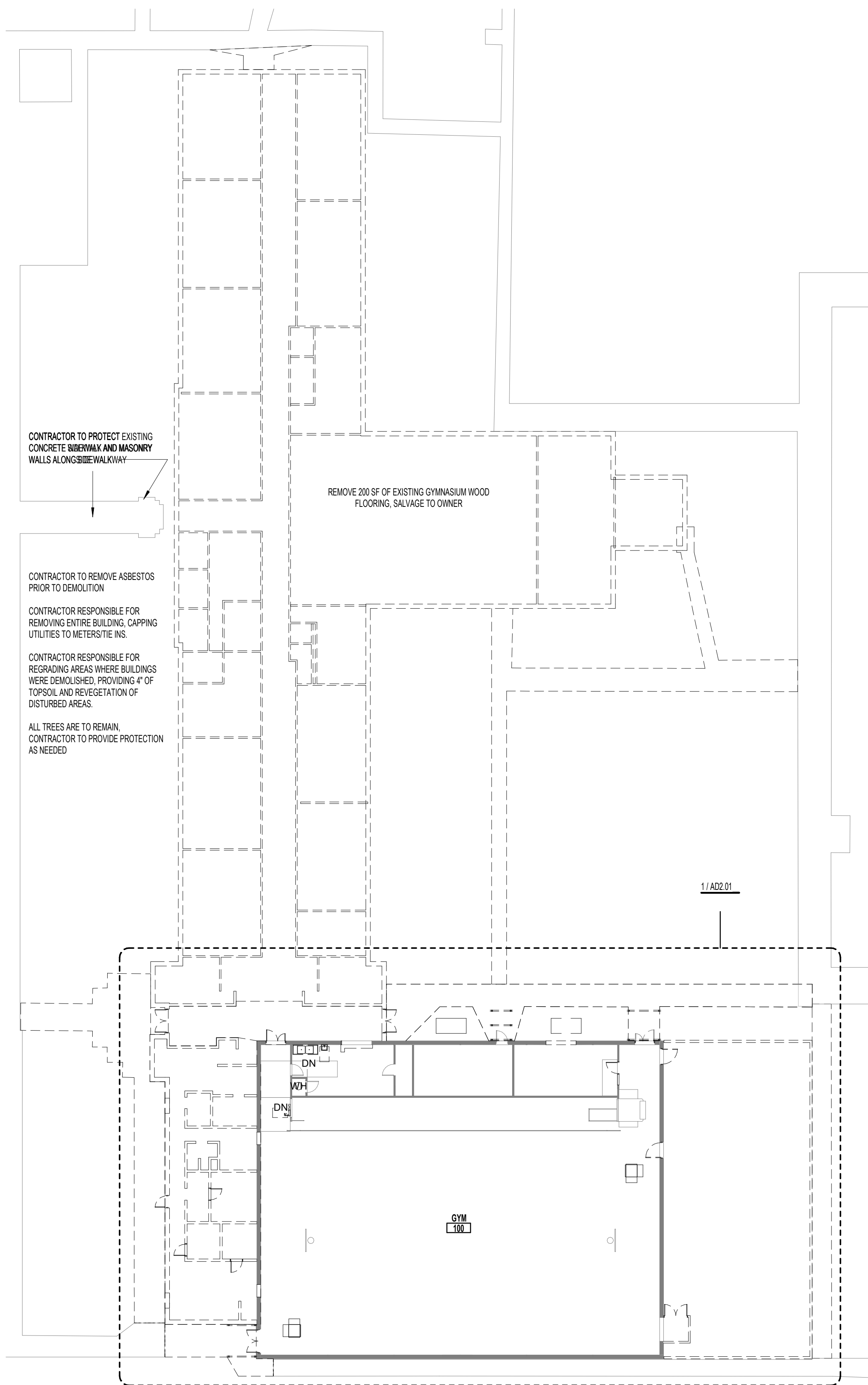
302 COLLEGE ST., HUTTO, TX 78634

PROJECT NO. 20-038
DATE 02/26/2021
AUTHOR: MM CHECKED BY: SRJ
REVISIONS:

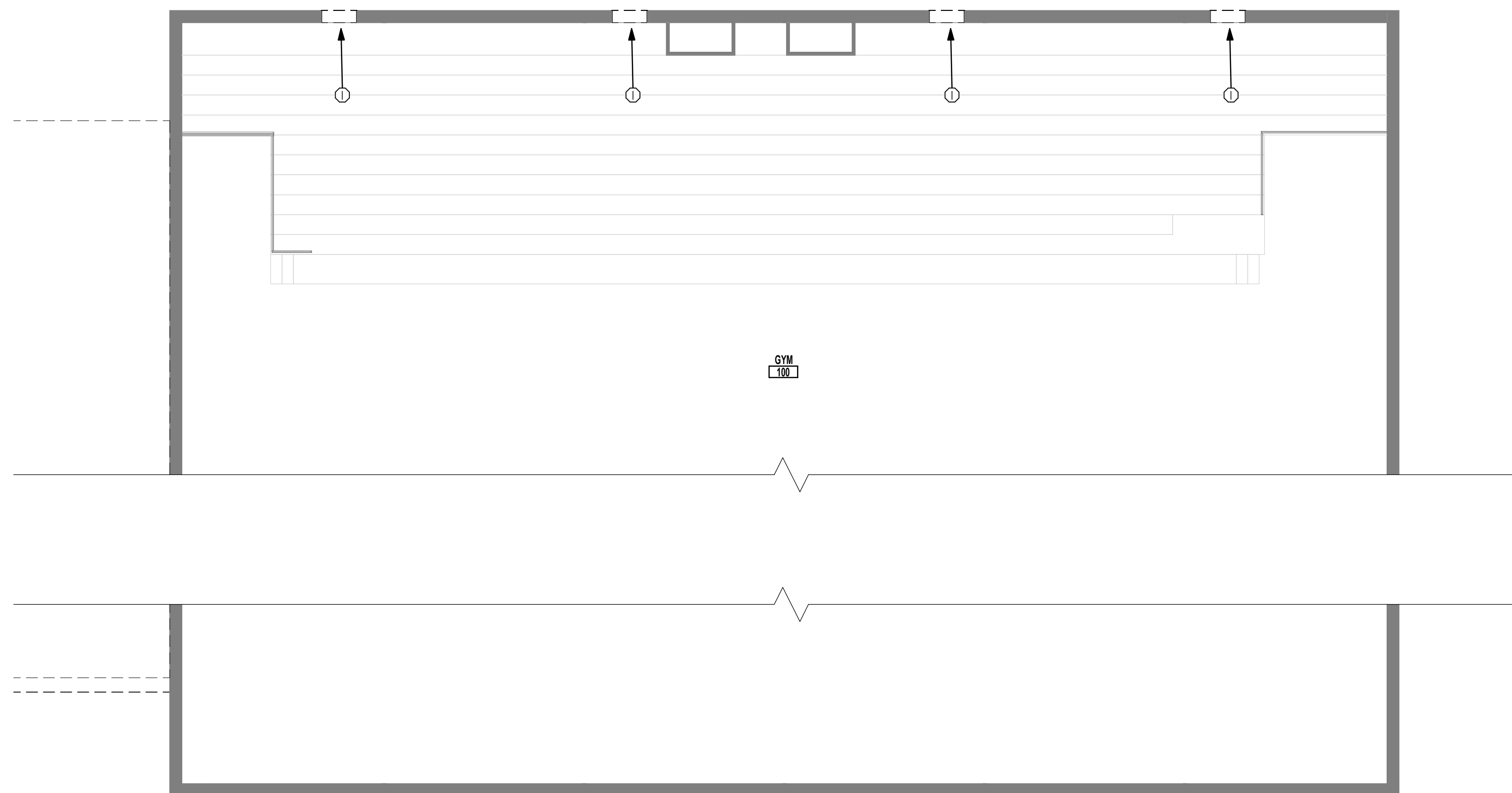
No.	Date	Description
1		
2		
3		
4		
5		
6		

UTILITY
DETAILS

BID SET



DEMOLITION FLOOR PLAN LEVEL 01 - GYM
SCALE: 1" = 20'-0"



DEMOLITION FLOOR PLAN - GYM BLEACHERS
SCALE: 1/8" = 1'-4"

- ### GENERAL DEMOLITION NOTES

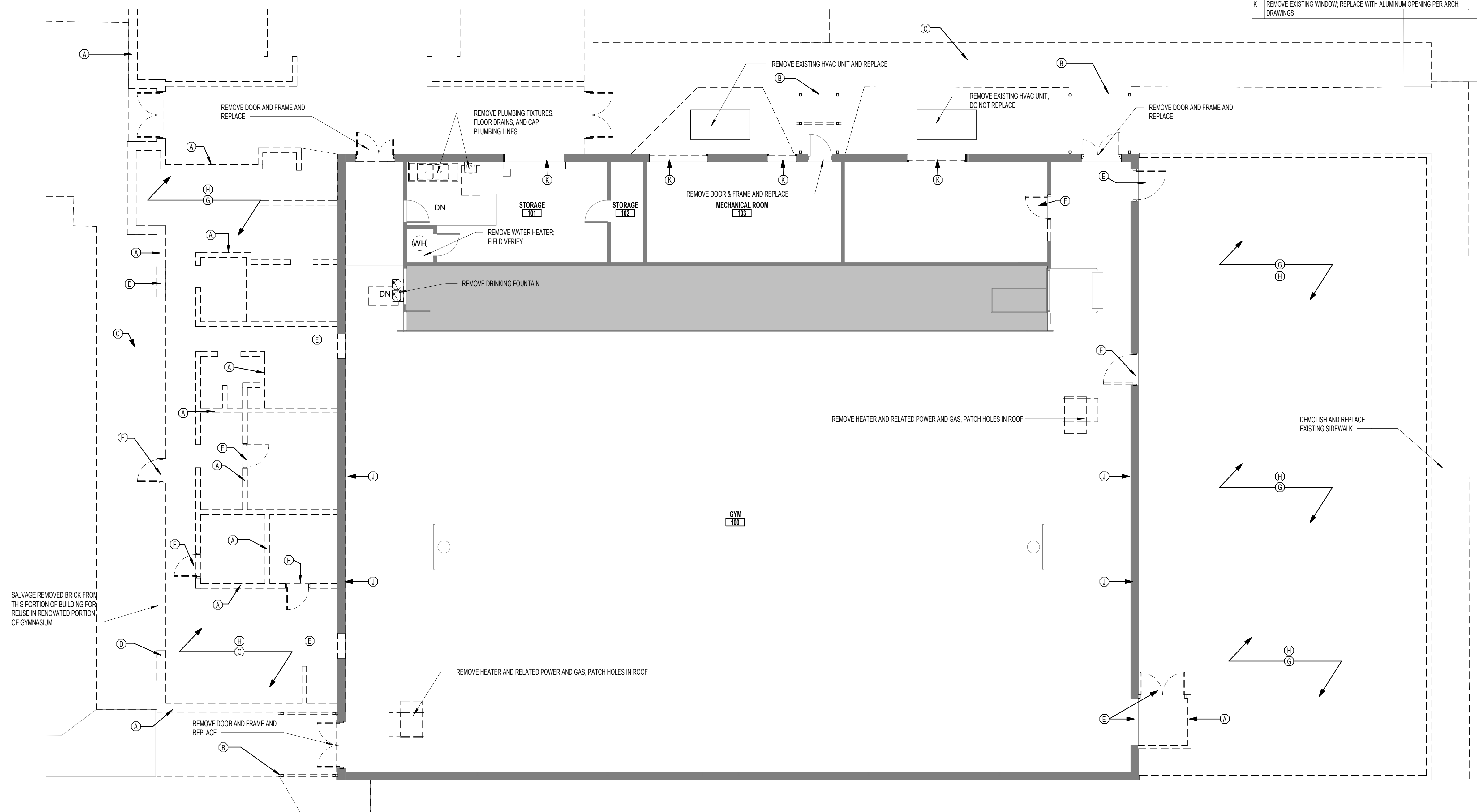
1. CONTRACTOR TO VISIT THE SITE PRIOR TO BID AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AS THEY EXIST. SUBMISSION OF BID INDICATES THE CONTRACTOR'S UNDERSTANDING OF EXISTING CONDITIONS AND WILLINGNESS TO WORK WITH THESE CONDITIONS.
2. REMOVE, REMOVE AND SALVAGE, AND REMOVE AND REINSTALL ITEMS INDICATED GRAPHICALLY ACCORDING TO DEMOLITION LEGEND AND AS INDICATED.
3. REFER TO ELECTRICAL, FIRE PROTECTION, MECHANICAL, AND PLUMBING DRAWINGS FOR DEMOLITION OF ELECTRICAL, FIRE PROTECTION, MECHANICAL, AND PLUMBING ITEMS.
4. DETACH ALL WALL AND CEILING MOUNTED ITEMS THAT ARE AFFECTED BY WORK AND NOT SPECIFICALLY ADVERTISED. REINSTALL OR SALVAGE ITEMS AS DIRECTED BY THE ARCHITECT. REMOVE ALL OTHER ITEMS.
5. WHERE A SEAMLESS PATCH BETWEEN EXISTING AND NEW SURFACES AND ITEMS IS NOT POSSIBLE, REMOVE THE EXISTING ELEMENT BACK TO NEAREST JOINT OR CORNER AND REPLACE WITH NEW MATCH TO.
6. REMOVE ALL ABANDONED ITEMS EXPOSED BY DEMOLITION. PATCH TO MATCH EXISTING.
7. CONTRACTOR RESPONSIBLE TO REPAIR DAMAGED WALL SURFACES THAT HAPPEN DURING THE DEMOLITION/CONSTRUCTION PROCESS.
8. DURING DEMOLITION, RETAIN STRUCTURAL INTEGRITY FOR INTERIOR/EXTERIOR WALLS. CONTACT ARCHITECT SHOULD QUESTIONS/PROBLEMS ARISE.
9. REFERENCE ARCHITECTURAL, MEP AND STRUCTURAL PLANS FOR ADDITIONAL INFORMATION REGARDING BUILDING DEMOLITION/RENOVATIONS.
10. IF WALL(S) OR SUB-WALL SURFACE(S) IS/ARE DAMAGED DURING REMOVAL, OR DEMOLITION, THE CONTRACTOR IS RESPONSIBLE FOR PLACEMENT OF WALL PATCHES TO ENSURE A FINISH, SMOOTH WALL SURFACE. MATCH ADJACENT WALL FINISH WHEN POSSIBLE.
11. CONTRACTOR RESPONSIBLE FOR CAPPING REMOVED PLUMBING LINES BELOW FINISH FLOOR AND PREPARING FLOOR SURFACES TO RECEIVE SCHEDULED FINISH.
12. CONTRACTOR RESPONSIBLE FOR DISCONNECTING AND CAPPING ELECTRICAL WIRING PRIOR TO DEMOLITION OF WALL(S).
13. CONTRACTOR RESPONSIBLE FOR PROTECTING EXISTING SURFACES AND FINISHES DURING THE DEMOLITION/CONSTRUCTION PROCESS.
14. CONTRACTOR RESPONSIBLE FOR CEILING PATCHING AND CEILING PREP IN AREAS AFFECTED BY DEMOLITION/CONSTRUCTION.
15. CONTRACTOR RESPONSIBLE FOR WALL PATCHING AND WALL PREP IN AREAS AFFECTED BY DEMOLITION/CONSTRUCTION.
16. CONTRACTOR RESPONSIBLE FOR FLOOR PATCHING AND FLOOR PREP IN AREAS AFFECTED BY DEMOLITION/CONSTRUCTION.

DEMOLITION LEGEND

— — — ELEMENTS TO BE DEMOLISHED OR REMOVED FROM SPACE

DEMOLITION KEYNOTES

Tag	Text
A	REMOVE EXISTING WALL, TYP.
B	REMOVE EXISTING EXTERIOR CANOPY; REPLACE AND REPAIR EXISTING BRICK AND MORTAR AT TIE IN LOCATION
C	REMOVE EXISTING EXTERIOR FLATWORK; REF. CIVIL DRAWINGS
D	REMOVE EXISTING EXTERIOR LOUVERS
E	REMOVE EXISTING DOOR, PATCH AND REPAIR TO MATCH ADJACENT WALL STRUCTURE
F	REMOVE EXISTING DOOR
G	DEMOLISH EXISTING ROOF THROUGHOUT
H	DEMOLISH EXISTING FLOOR AND FOUNDATION THROUGHOUT
I	DEMOLISH EXISTING OVERHEAD EXTERIOR DEVICES; REPLACE WITH WINDOWS PER ARCHITECTURAL DRAWINGS
J	REMOVE EXISTING WALL MOUNTED BASKETBALL GOALS; PATCH AND REPAIR AS NECESSARY
K	REMOVE EXISTING WINDOW; REPLACE WITH ALUMINUM OPENING PER ARCH. DRAWINGS



DEMOLITION FLOOR PLAN - GYM
SCALE: 1/8" = 1'-0"

TYPICAL STRUCTURAL ABBREVIATIONS

ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED

A		K	
ABOVE FINISH FLOOR	-	AFF	KIPS (1000 LBS)
ADDITIONAL	-	ADONL	KIP PER LINEAR FOOT
ADJACENT	-	ADJ.	KIP PER SQUARE FOOT
AGGREGATE	-	AGGR.	
ALTERNATE	-	ALT.	
ANCHOR BOLT	-	A.B.	
AND	-	&	
ANGLE	-	L	
APPROVED	-	APPD.	
APPROXIMATE	-	APPROX.	
ARCHITECT	-	ARCH.	
ARCHITECTURAL	-	ARCHL.	
ARCH'L FINISH SURFACE	-	A.F.S.	
AT	-	@	
AIR CONDITIONER	-	A/C	
AIR HANDLING UNIT	-	AHU	
B			
BACK FACE	-	B.F.	
BACK TO BACK	-	B. TO B.	
BASEMENT	-	BSMT.	
BEAM	-	BM.	
BEARING	-	BRG.	
BELOW FINISH FLOOR	-	BFF	
BETWEEN	-	BETWN.	
BEVEL (ED)	-	BEVL (D)	
BLOCK	-	BLK.	
BLOCKING	-	BLKG.	
BLOCK-OUT	-	B.O.	
BOTTOM	-	BOT.	
BRACKET	-	BRKT.	
BRICK LEDGE ELEVATION	-	B.L.E.	
BRIDGING	-	BRDG.	
BUILDING	-	BUILD.	
BUILDING LINE	-	B.L.	
C			
CANTILEVER	-	CANT.	
CAST IRON	-	C.I.	
CAST-IN-PLACE	-	C.I.P.	
CEILING	-	CLG.	
CENTER LINE	-	C.L.	
CENTER OF GRAVITY	-	C.G.	
CENTER TO CENTER	-	C. TO C.	
CHANNEL	-	C.	
CLEAR OR CLEARANCE	-	CLR.	
COLUMN	-	COL.	
COMPRESSION	-	COL. OR COMP.	
CONCRETE	-	CONC.	
CONCRETE MASONRY UNIT	-	CMU	
CONNECTION (S)	-	CONN(S).	
CONTINUOUS	-	CONT.	
CONTRACTOR	-	CONTR.	
CONTROL JOINT	-	CT.J.	
CONSTRUCTION	-	CONST.	
CONSTRUCTION JOINT	-	C.J.	
CORNER	-	COR.	
COVER PLATE	-	COV. PL.	
D			
DETAIL	-	DET.	
DEAD LOAD	-	DL	
DEFORMED BAR ANCHOR	-	D.B.A.	
DIAGONAL	-	DIAG.	
DIAMETER	-	DIA.	
DIMENSION(S)	-	DIM(S).	
DOVETAIL	-	D.V.T.	
DOWNSPOUT	-	DS.	
DRAWING(S)	-	DWG(S).	
DOUBLE	-	DBL.	
DOWEL(S)	-	DWL(S).	
E			
EACH	-	EA.	
EACH FACE	-	E.F.	
EACH WAY	-	E.W.	
EDGE ANGLE OFFSET	-	E.A.O.	
ELECTRICAL	-	ELEC.	
ELEVATION	-	EL.	
ELEVATOR	-	ELEV.	
ENGINEER	-	ENGR.	
ENTRANCE	-	ENT.	
EQUAL	-	EQ.	
EQUIPMENT	-	EQUIP.	
EXPANSION	-	EXP.	
EXPANSION JOINT	-	E.J.	
EXISTING	-	EXIST.	
EXTERIOR	-	EXT.	
EXTRA STRONG	-	X-STR.	
F			
FACE TO FACE	-	F. TO F.	
FABRICATOR	-	FABR.	
FAR SIDE	-	F.S.	
FIELD VERIFY	-	(F.V.)	
FINISHED	-	FIN.	
FINISHED FLOOR	-	FIN. FL.	
FIREPROOF(ING)	-	FP.	
FLANGE	-	FLG.	
FLOOR	-	FL.	
FLOOR DRAIN	-	F.D.	
FOUNDATION	-	FDN.	
G			
GAGE OR GAUGE	-	GA.	
GALVANIZED	-	GALV.	
GALVANIZED IRON	-	G.I.	
GALVANIZED STEEL	-	G.S.	
GENERAL CONTRACTOR	-	G.C.	
GOVERNMENT	-	GEN. CONTR.	
GRADE	-	GR.	
GRADE BEAM	-	GR. BM.	
H			
HEADED STUDS	-	H.S.	
HEIGHT	-	HT.	
HIGH POINT	-	H.P.	
HOLLOW STRUCTURAL SHAPE	-	HSS	
HORIZONTAL	-	HORIZ.	
HOOK	-	HK.	
I			
INFORMATION	-	INFO.	
INSIDE DIAMETER	-	I.D.	
INSIDE FACE	-	I.F.	
INTERIOR	-	INT.	
INTERMEDIATE	-	INTERM.	
J			
JOINT(S)	-	JT(S).	
JOIST(S)	-	JST(S).	

K			
KIPS (1000 LBS)	-	K	
KIP PER LINEAR FOOT	-	KLF	
KIP PER SQUARE FOOT	-	KSF	
L			
LIGHTWEIGHT CONCRETE	-	LWT. CONC.	
LIVE LOAD	-	LL	
LONGITUDINAL	-	LONG.	
LONG LEG HORIZONTAL	-	LLH	
LONG LEG VERTICAL	-	LLV	
LOW POINT	-	L.P.	
M			
MANUFACTURE(R)	-	MFR.	
MASONRY OPENING	-	M.O.	
MATERIAL	-	MAT.	
MAXIMUM	-	MAX.	
MECHANICAL	-	MECH.	
MEZZANINE	-	MEZZ.	
MIDDLE	-	MID.	
MINIMUM	-	MIN.	
MISCELLANEOUS	-	MISC.	
MOMENT	-	M	
MOMENT CONNECTION(S)	-	M. C. OR	
N			
NEAR FACE	-	N.F.	
NOMINAL	-	NOM.	
NON-SHRINK	-	N.S.	
NOT IN CONTRACT	-	N.I.C.	
NOT TO SCALE	-	N.T.S.	
NUMBER	-	NO. OR #	
O			
ON CENTER OPENING(S)	-	O.C. OPNG(S).	
OPPOSITE	-	OPP.	
OPPOSITE HAND	-	O.H.	
OUTSIDE FACE	-	O.F.	
OUTSIDE DIAMETER	-	O.D.	
OUTSTANDING	-	OSTG.	
P			
PAN	-	P	
PARALLEL	-	PAR.	
PARTITION	-	PARTN.	
PENETRATION	-	PEN.	
PERPENDICULAR	-	PERP.	
PIECE	-	PC.	
PLATE	-	PL.	
POINT	-	PT.	
POUNDS PER SQUARE FOOT	-	P.S.F.	
POUNDS PER SQUARE INCH	-	P.S.I.	
PRECAST CONCRETE	-	PCG	
PRE-ENGINEERED	-	PEBM	
BUILDING MANUFACTURER	-		
PRE-ENGINEERED	-	PEMB	
METAL BUILDING	-	PREFAB.	
PREFABRICATED	-	PREFAB.	
PRELIMINARY	-	PRELIM.	
PROJECTION	-	PROJ.	
R			
RADIUS	-	R	
REINFORCED CONCRETE PIPE	-	RCP	
REINFORCE(ING) (ED) (MENT)	-	REINF.	
REMAINDER	-	REM. OR R	
REQUIRE	-	REQ.	
RETENTION SYSTEM	-	RET. SYS.	
REQUIRED	-	REQ'D.	
RISER	-	RIS.	
ROOF	-	RF.	
ROOF DRAIN	-	R.D.	
ROOF OPENING	-	RF. OPNG.	
ROOM	-	RM.	
ROUND	-	RND.	
S			
SCHEDULE(D)	-	SCHED.	
SECTION	-	SECT.	
SHEAR	-	V	
SHEET	-	SHT.	
SIDEWALK	-	SW.	
SIMILAR	-	SIM.	
SPACE	-	SPA.	
SPECIFICATION(S)	-	SPEC(S)	
SPECIFIED	-	SPEC'D.	
SQUARE FOOT (FEET)	-	S.F.	
STANDARD	-	STD.	
STEEL	-	STL.	
STIFFENER	-	STIFF.	
STRAIGHT	-	STRT.	
STIRRUPS	-	STIR.	
STRUCTURE	-	STRUCT.	
STRUCTURAL	-	STRUCT'L.	
SYMMETRICAL	-	SYM.	
SUBCONTRACTOR	-	SUBCONTR.	
SUPPORT(S)	-	SUPT(S).	
T			
TAPERED BEAM	-	T.B.	
TEMPERATURE	-	TEMP.	
TENSION	-	T	
TERRAZZO	-	TERR.	
THICK	-	THK.	
TONGUE & GROOVE	-	T & G	
TOP AND BOTTOM	-	T & B	
TOP OF	-	T.O.	
TOP OF BEAM	-	T.O.B.	
TOP OF FOOTING	-	T.O.F.	
TOP OF PIER	-	T.O.P.	
TOP OF PIER CAP	-	T.O.P.C.	
TOP OF RETAINING WALL	-	T.R.W.	
TOP OF STEEL	-	T.O.S.	
TOP OF STRUCTURAL CONCRETE	-	T.O.S.C.	
TOP OF WALL	-	T.O.W.	
TREAD	-	TR.	
TUBE STEEL	-	TS	
TYPICAL	-	TYP.	
U			
UNLESS NOTED OTHERWISE	-	U.N.O.	
V			
VERTICAL	-	VERT.	
W			
WATERSTOP	-	WS.	
WATERPROOFING	-	WPFG.	
WELDED WIRE MESH	-	W.W.M.	
WIND BRACE	-	WB	
WIND LOAD	-	WL	
WINDOW	-	WDW.	
WITH	-	W/	
WORK POINT	-	W.P.	
WOOD	-	WD.	
WROUGHT IRON	-	W.I.	

TYPICAL SYMBOLS LEGEND

WB-1	INDICATES WIND BRACE - SEE WIND BRACE ELEVATIONS.
TRUSS	INDICATES TRUSS - SEE TRUSS ELEVATIONS.
	INDICATES MOMENT CONNECTION - SEE MOMENT CONNECTION DETAILS.
	INDICATES STEEL BEAM SPLICE - SEE STRUCTURAL STEEL SIMPLE BEAM CONNECTION DETAILS SBX-1.
	INDICATES STRUCTURE OVER VOID - SEE EXPANSIVE CLAY SOIL DETAILS CES-1.
	INDICATES THAT COLUMN STARTS UPWARD FROM THIS LEVEL.
	INDICATES THAT COLUMN STOPS AT THIS LEVEL.

STRUCTURAL SYMBOLS

THE FOLLOWING SYMBOLS ARE USED TO REPRESENT THE MATERIALS SHOWN ON THE STRUCTURAL DRAWINGS. SEE SPECIFICATIONS AND GENERAL NOTES FOR MATERIAL QUALITIES REQUIRED.

	ARCHITECTURAL FINISHED SURFACE
	CAST-IN-PLACE CONCRETE
	STRUCTURAL PRECAST CONCRETE
	SAND GRAVEL, OR LOW P.I. FILL
	EARTH
	ROCK
	ARCHITECTURAL PRECAST CONCRETE
	NON-SHRINK GROUT
	SAND CEMENT GROUT
	STYROFOAM
	EXISTING
	C.M.U.
	BRICK
	STRUCTURAL STEEL
	WOOD (CONTINUOUS)
	WOOD (NON-CONTINUOUS)
	PLYWOOD
	GLUE LAMINATED LUMBER (GLU-LAM)
	MICRO LAMINATED LUMBER (MICRO-LAM)
	ROOF TOP MECHANICAL UNIT ON PLAN
	BEAM BOTTOM CHORD BRACING ON PLAN

NOTE TO ENGINEER AND PRODUCTION:
SHEETS FROM THE INDEX SHOULD BE DELETED AS
COORDINATED WITH PROJECT REQUIREMENTS.

TYPICAL PLAN NOTES:

- SHEET INDEX:
THE DETAILS IN THE DRAWINGS, INCLUDING THOSE DRAWINGS REFERENCED BY THIS INDEX, WHICH ARE DESIGNATED AS "TYPICAL DETAILS", APPLY GENERALLY TO THE CONSTRUCTION IN ALL AREAS WHERE THE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAILS, REGARDLESS OF WHETHER OR NOT THE DETAILS ARE SPECIFICALLY REFERENCED IN THE DRAWINGS.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF FLOOR DROPS, FLOOR SLOPES, CURBS, MISCELLANEOUS ELEVATIONS, DETAILS AND DIMENSIONS NOT SHOWN ON PLAN.
- SEE ARCH'L DWGS. FOR SIZES & LOCATIONS OF ROOF OPENINGS.
- NOTE TO CONTRACTOR:
FIELD VERIFY ALL EXISTING DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION OF MATERIALS AND CONSTRUCTION.

SHEET LIST	
SHT. NO.	SHEET NAME
S1.01	GENERAL NOTES, ABBREVIATIONS AND SYMBOLS
S2.01	GYM FLOOR PLAN
S2.02	GYM ROOF PLAN
S3.01	REPAIR DETAILS

GENERAL

- THE FOLLOWING GENERAL NOTES CONSTITUTE A MAJOR PART OF THE PLANS AND SPECIFICATIONS. STRICT COMPLIANCE WITH THESE NOTES IS ESSENTIAL TO THE PROPER CONSTRUCTION OF THE BUILDING.
- REFER TO THE PLAN NOTES, LOCATED IN THESE GENERAL NOTES, FOR APPLICATION OF DETAILS WHICH ARE DESIGNATED AS "TYPICAL DETAILS" IN THIS SET OF DRAWINGS.
 - SLEEVES AND BLOCKOUTS REQUIRED FOR PASSAGE OF DUCTWORK, PIPING, DRAINS, CONDUIT, ETC., AND ANCHORS REQUIRED FOR ANCHORING EQUIPMENT AND PIPING ARE NOT GENERALLY INDICATED ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL DETERMINE SUCH REQUIREMENTS FROM OTHER SERIES DRAWINGS, SUBCONTRACTORS, AND SUPPLIERS AND SHALL COORDINATE THE LOCATIONS AND DETAILS FOR THESE ITEMS PRIOR TO FABRICATION OR CONSTRUCTION OF THE STRUCTURE. ANY CONFLICTS BETWEEN THESE ITEMS AND THE BUILDING STRUCTURE SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION.
 - VERIFY, OR ESTABLISH, LOCATIONS AND DIMENSIONS OF ALL FRAMED OPENINGS RELATED TO EQUIPMENT OR DUCTWORK, INCLUDING INSULATION, IF ANY. WHERE SUBSTANTIAL RELOCATION OR RECONFIGURATION IS REQUIRED, SUBMIT A DRAWING TO THE ARCHITECT FOR REVIEW.
 - MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL WHICH ARE NOT AS SPECIFIED IN THE DOCUMENTS SHALL BE ACCOMPANIED BY A CURRENT I.C.B.O. (INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS) REPORT. MATERIALS OR PRODUCTS THAT DO NOT HAVE I.C.B.O. REPORTS INDICATING THE SUBSTITUTED MATERIAL OR PRODUCT TO BE EQUAL TO THAT SPECIFIED, WILL NOT BE CONSIDERED.

SUBSTITUTIONS

- ALL REQUESTS FOR SUBSTITUTIONS OF MATERIALS OR DETAILS SHOWN IN THE CONTRACT DOCUMENTS SHALL BE SUBMITTED FOR APPROVAL DURING THE BIDDING PERIOD. ONCE BIDS ARE ACCEPTED, PROPOSED SUBSTITUTIONS WILL BE CONSIDERED ONLY WHEN THEY ARE OFFICIALLY SUBMITTED WITH AN IDENTIFIED SAVINGS TO BE DEDUCTED FROM THE CONTRACT.

DESIGN LOADS

- DEAD LOADS INCLUDE THE WEIGHT OF THE STRUCTURAL COMPONENTS AND ALLOWANCES FOR PERMANENT PARTITIONS, PERMANENT FIXTURES, FINISHES, ROOFING, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION MATERIALS SHOWN OR SPECIFIED.
- DESIGN WIND LOADING IS AS FOLLOWS (NOTE: PER ASCE 7-10, WIND LOADS ARE ULTIMATE. SERVICE LOADS MAY BE OBTAINED BY DIVIDING THE STATED LOADS BY 1.6):

DESIGN WIND LOADING IS AS FOLLOWS:
WIND LOADS LISTED ARE ULTIMATE LOADS IN ACCORDANCE WITH ASCE 7-10

WIND DESIGN OPTION.....	DIRECTIONAL PROCEDURE
BASIC WIND SPEED (3-SECOND GUST)	120 MPH
RISK CATEGORY.....	<II>
EXPOSURE CATEGORY.....	<C>
INTERNAL PRESSURE COEFFICIENT.....	<0.18>
RELIABLE ROOF DEAD LOAD TO RESIST UPLIFT (SERVICE).....	<5> PSF

- SNOW LOADING (ASCE 7, SECTION 7):
GROUND SNOW LOAD..... 5 PSF

CODES & DESIGN SPECIFICATIONS

- BUILDING CODE: 2015 IBC
- STRUCTURAL STEEL: THE TECHNICAL REQUIREMENTS OF THE 1989 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND 1993 "LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS," THE AIA GENERAL CONDITIONS OF THE CONTRACT ARE THE GOVERNING SPECIFICATION. IN CASE OF CONFLICTS IN INTERPRETATION OF THE DEFINITION OF "CONTRACT DOCUMENTS" AND REQUIREMENTS OF THE DRAWINGS, THE AIA SPECIFICATIONS GOVERN.
- CONCRETE MASONRY: "BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES (ACI 530-88)," THE AMERICAN CONCRETE INSTITUTE.

SPECIAL INSPECTION REQUIREMENTS

- PERIODIC SITE OBSERVATIONS BY THE ENGINEER OF RECORD ARE SOLELY FOR THE PURPOSE OF DETERMINING GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. THOSE LIMITED OBSERVATIONS ARE NOT A SUBSTITUTE FOR INSPECTIONS AND TESTING PERFORMED BY THE OWNER'S QUALIFIED, INDEPENDENT TESTING LABORATORY, NOR ARE THEY INTENDED TO IDENTIFY ALL DEFECTS AND DEFICIENCIES IN THE WORK BY THE CONTRACTOR. THOSE OBSERVATIONS DO NOT FULFILL ANY PART OF THE SPECIAL INSPECTIONS REQUIREMENTS GIVEN IN THE SPECIFICATIONS. THE DESIGNATED SPECIAL INSPECTOR IS SOLELY RESPONSIBLE FOR FULFILLING THE SPECIAL INSPECTION REQUIREMENTS AS OUTLINED HERE AND DEFINED IN THE SPECIFICATIONS.
- REFER TO THE SPECIFICATIONS FOR CODE MANDATED MATERIALS TESTING AND INSPECTION REQUIREMENTS FOR STRUCTURAL WORK.
- ITEMS OF STRUCTURAL CONSTRUCTION WHICH REQUIRE SPECIAL INSPECTION INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
PLACEMENT OF MASONRY REINFORCING
PLACEMENT OF ANCHOR BOLTS PLACED IN MASONRY
CONSTRUCTION OF REINFORCED MASONRY
FABRICATION AND ERECTION OF STRUCTURAL STEEL
WELDING AND BOLTING OF STEEL CONNECTIONS
- ARCHITECTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS REQUIRING SPECIAL INSPECTIONS PER SECTION 1705 OF THE IBC HAVE NOT BEEN LISTED HERE. REFER TO ARCH/MEP FOR SPECIAL INSPECTION REQUIREMENTS FOR THESE COMPONENTS.

CONCRETE FILL-IN NOTES

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE 2014 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-14)," THE AMERICAN CONCRETE INSTITUTE.
- ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS AND A MINIMUM CEMENT CONTENT OF 5 SACKS PER CUBIC YARD. SLUMP SHALL BE 3" TO 5". AGGREGATE SHALL CONFORM TO ASTM C 33. APPLY CURING COMPOUND TO ALL FLAT CONCRETE SURFACES IMMEDIATELY AFTER FINISHING.

MASONRY WALL REPAIR

- ANY REPLACED HOLLOW LOAD BEARING MASONRY UNITS SHALL CONFORM TO ASTM C 90, LIGHTWEIGHT, GRADE N, WITH A MINIMUM UNIT COMPRESSIVE STRENGTH OF 1900 PSI.
- MORTAR SHALL CONFORM TO ASTM C 270, TYPE S, CONSISTING OF 1 PART PORTLAND CEMENT, 1/2 PART HYDRATED LIME AND 3 1/2 TO 4 1/2 PARTS MASON'S SAND. DO NOT USE AIR ENTRAINING LIME, MASONRY CEMENT OR ADMIXTURES.
- COARSE GROUT SHALL CONFORM TO ASTM C 476, WITH A MAXIMUM AGGREGATE SIZE OF 3/8". PROPORTIONS BY VOLUME SHALL BE 1 PART PORTLAND CEMENT, 2 1/4 TO 3 PARTS MASON'S SAND AND 1 TO 2 PARTS PEA GRAVEL. SLUMP SHALL BE 10" TO 11".
- VERTICAL BARS SHALL BE HELD IN POSITION IN THE CENTER OF THE CELL OR GROUT SPACE DURING PLACEMENT OF EACH LIFT OF GROUT UNLESS ANOTHER POSITION IS DETAILED.
- REINFORCING BARS SHALL BE STRAIGHT EXCEPT FOR BENDS AROUND CORNERS AND WHERE BENDS OR HOOKS ARE DETAILED ON THE PLANS.
- STANDARD LAP SPLICE LENGTHS FOR REINFORCING BARS SHALL BE 40 BAR DIAMETERS.
- VERTICAL REINFORCING BARS MAY BE SPLICED IN 6'-0" TO 8'-0" (+) LENGTHS, PROVIDED THE SPLICES IN ADJACENT BARS ARE STAGGERED AND ARRANGED SO THAT NOT MORE THAN ONE-HALF OF THE TOTAL NUMBER OF BARS ARE SPLICED AT ANY ONE HEIGHT.
- PROVIDE TEMPORARY BRACING FOR WALLS AS NECESSARY UNTIL THE PERMANENT BRACING SYSTEM HAS BEEN COMPLETED.
- VIBRATE FORM BOARD TO MINIMIZE HONEYCOMBS.
- PRIOR TO PAINTING WALLS, PATCH ALL VOIDS DEEPER THAN 1/4".

pfluger

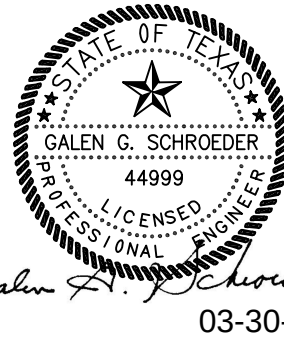
DATUM
ENGINEERS
www.datumengineers.com | Co. Reg. No. F-2019
Dallas, Texas Austin, Texas San Antonio, Texas
214.588.0174 | 512.689.9400 | 214.694.2860
Datum Project No. 20186.01

HUTTO ISD GYM RENOVATION

200 COLLEGE STREET HUTTO, TX 78634

HUTTO ISD

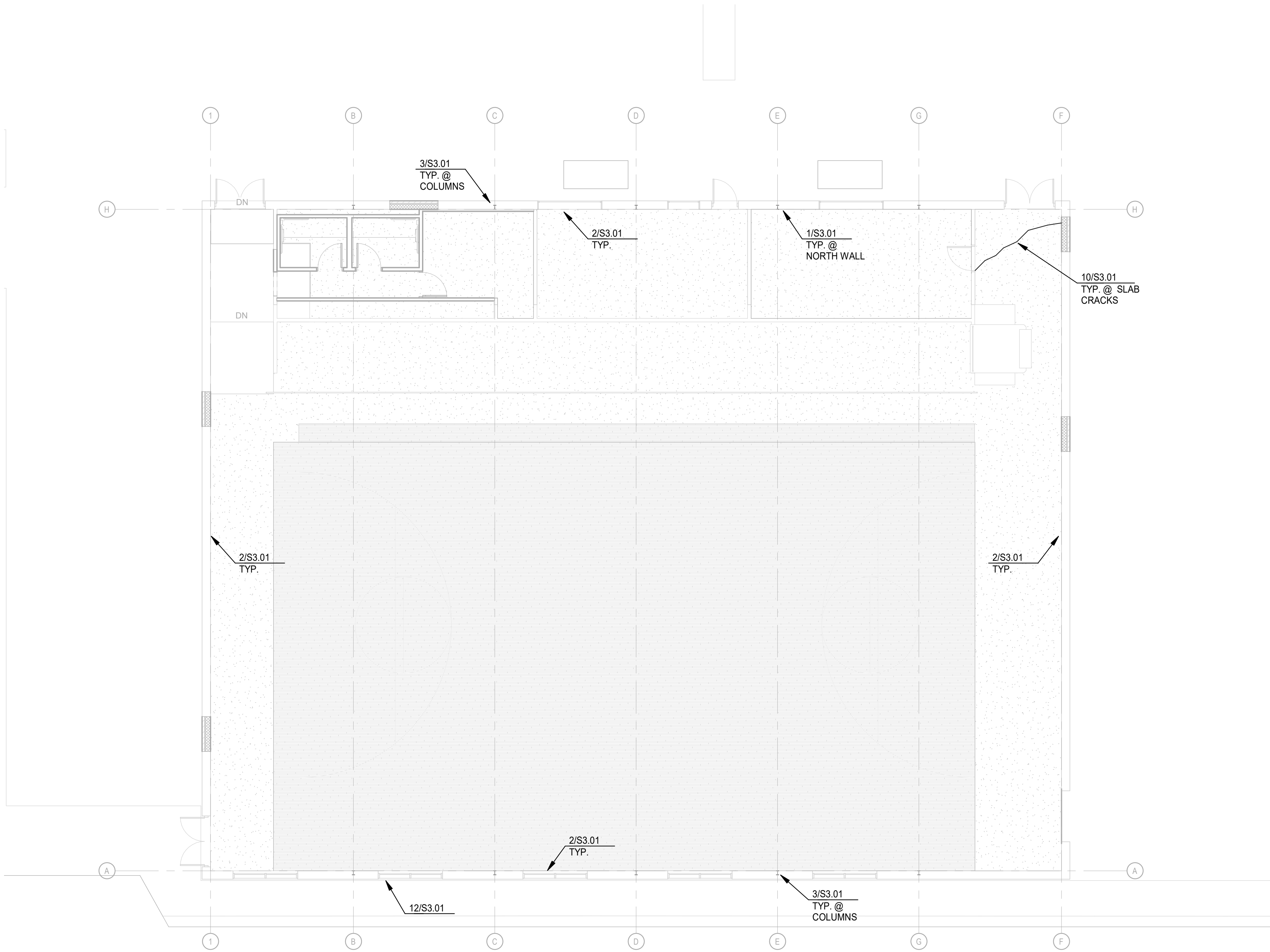
200 COLLEGE STREET
HUTTO, TEXAS 78634



3/30/21

PROJECT NO. 20-038
DATE 3/30/21
REVISIONS:
Date Description

BID SET
\$1.01
GENERAL NOTES,
ABBREVIATIONS AND
SYMBOLS



1 GYM FLOOR PLAN

1/8" = 1'-0"

pfluger

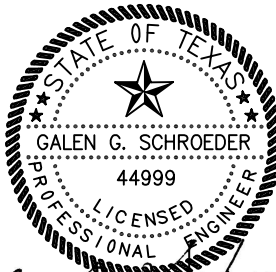
DATUM
ENGINEERS
www.datumengineers.com Lic. Reg. No. F-2019
Dallas, Texas Austin, Texas San Antonio, Texas
214.585.0174 512.469.9400 214.585.2880
Datum Project No. 20186.01

HUTTO ISD GYM RENOVATION

200 COLLEGE STREET HUTTO, TX 78634

HUTTO ISD

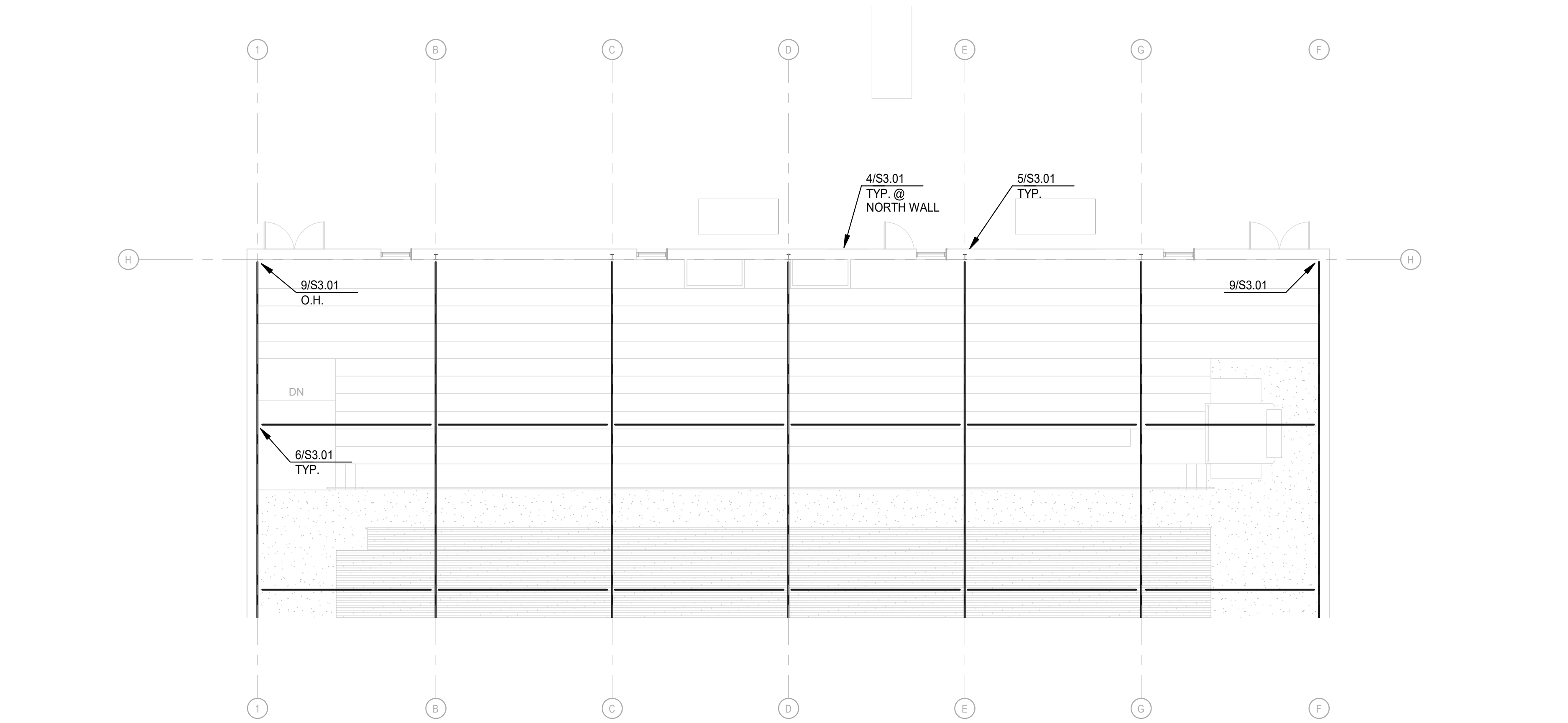
200 COLLEGE STREET
HUTTO, TEXAS 78634



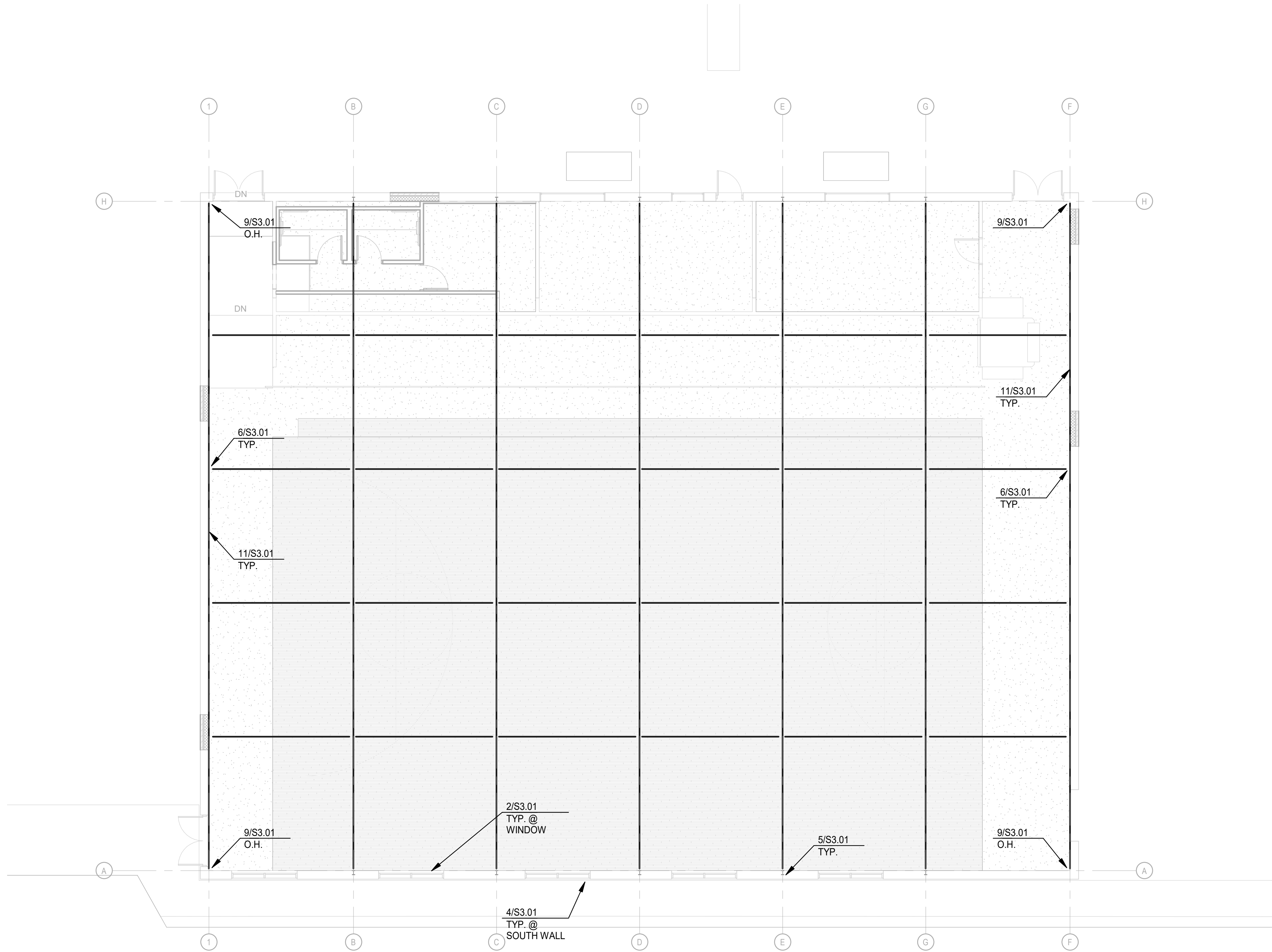
Galen C. Schroeder, P.E.
03-30-21

PROJECT NO. 20-038
DATE 3/30/21
REVISIONS:
Date Description

BID SET
S2.01
GYM FLOOR PLAN



2 GYM BLEACHER PLAN
1/8" = 1'-0"



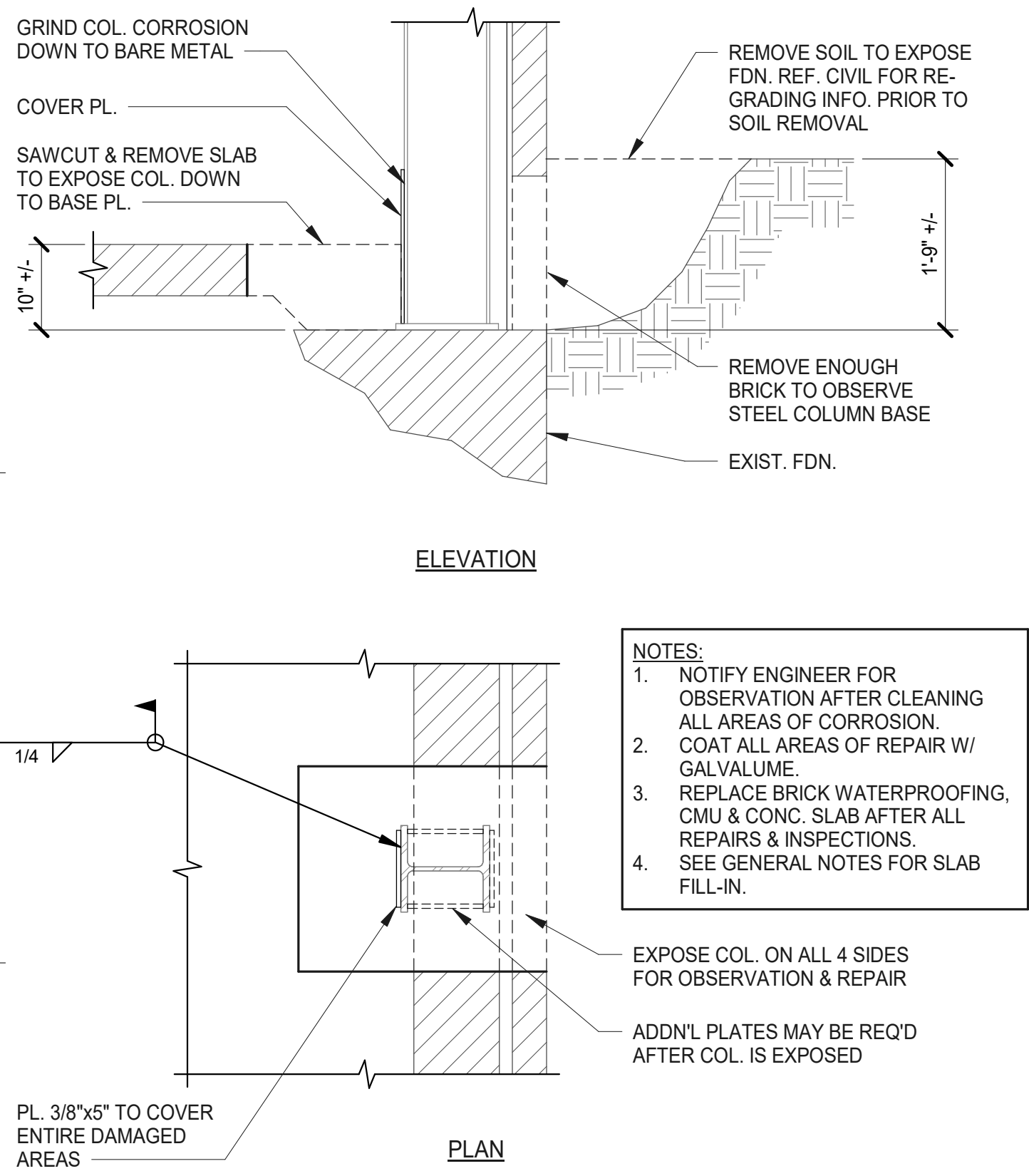
1 GYM ROOF PLAN
1/8" = 1'-0"



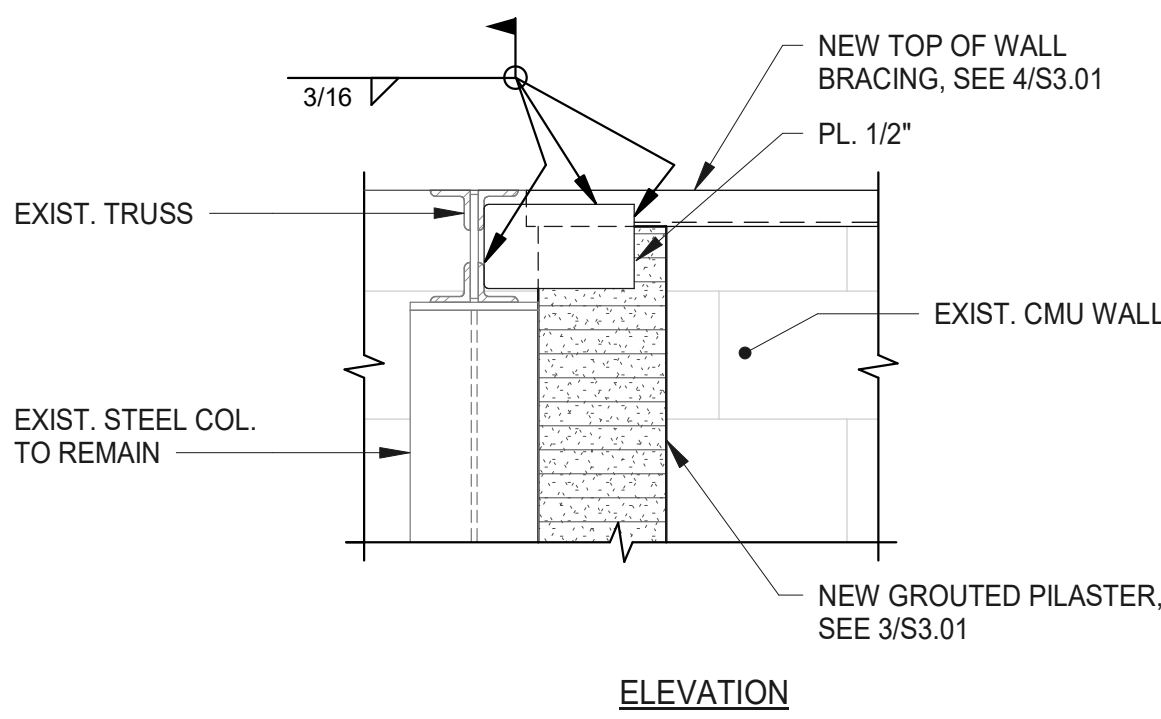
Galen C. Schroeder, P.E.
03-30-21

PROJECT NO.	20-038
DATE	3/30/21
REVISIONS:	

Date	Description
------	-------------



1 NORTH COLUMN REPAIR (5 TIMES)

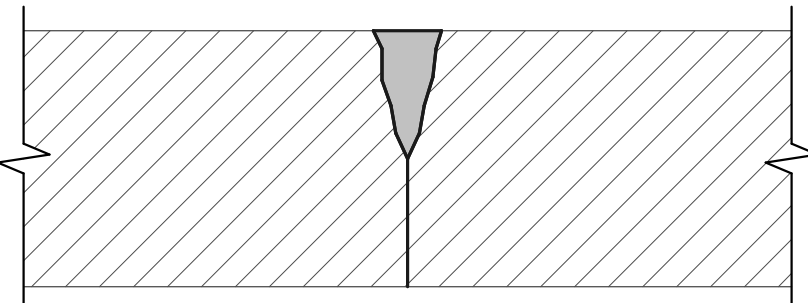


5 TOP OF WALL BRACING - CONNECTION AT TRUSS

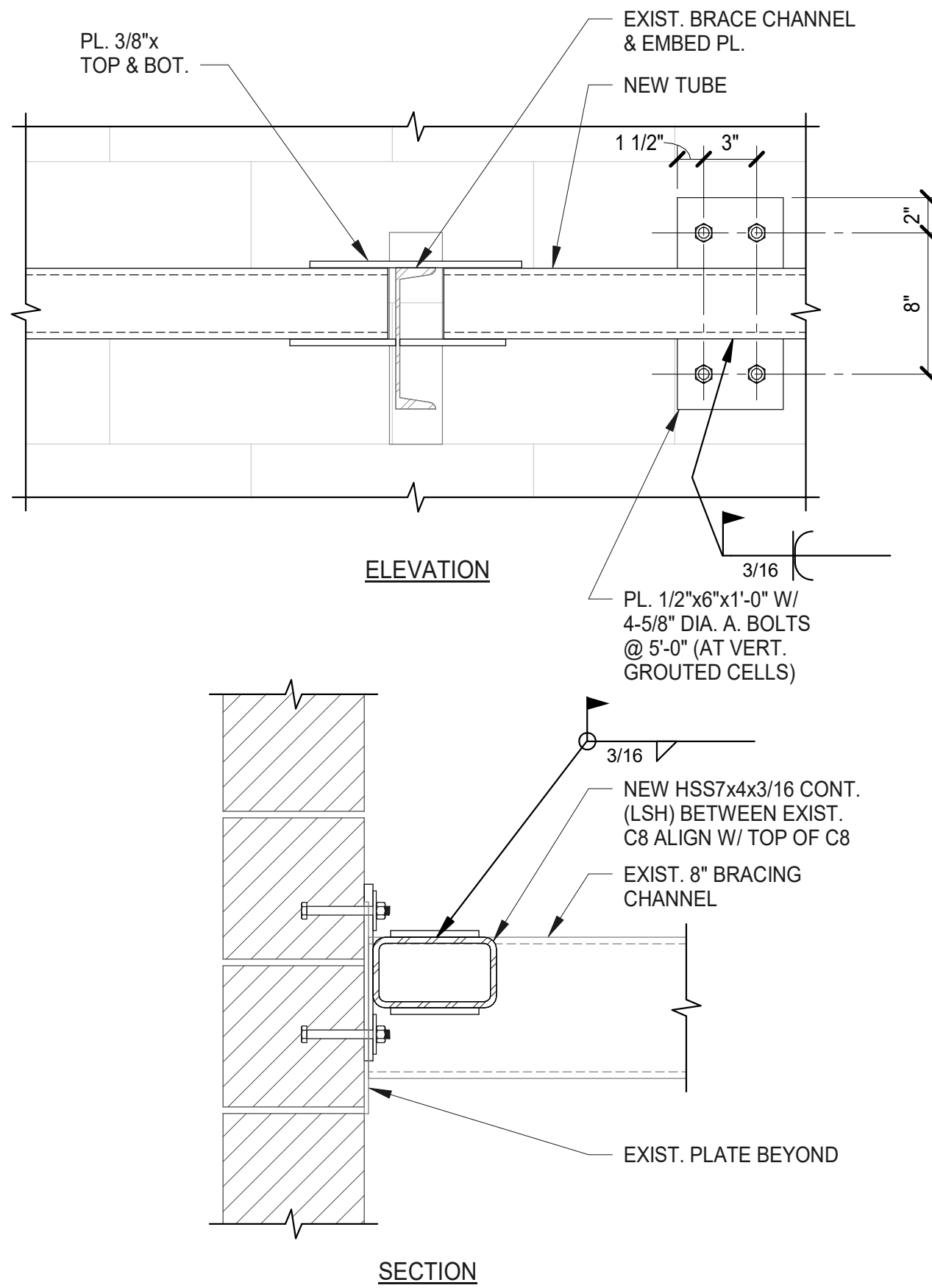
CONCRETE CRACK GROUTING

- ALL CRACKS 1/16\"/>
- SUBMIT PROPOSED HYDROPHOBIC POLYURETHANE RESIN CHEMICAL GROUT TO THE STRUCTURAL ENGINEER FOR APPROVAL. THE FOLLOWING HYDROPHOBIC POLYURETHANE CHEMICAL GROUTS ARE ACCEPTABLE:

SIKAFIX HH LV - SIKA CORPORATION, LYNHURST, NEW JERSEY
- HYDROPHOBIC POLYURETHANE RESIN CHEMICAL GROUT SHALL BE INJECTED AS FOLLOWS:
 - ALL SURFACES TO RECEIVE HYDROPHOBIC POLYURETHANE RESIN CHEMICAL GROUT SHALL BE FREE OF ALL LOOSE AND UNSOUND MATERIAL, OIL, GREASE, WAX, DIRT, AND EXISTING COATINGS TO EXACTLY LOCATE THE CRACK.
 - IF HIGH WATER FLOW IS ENCOUNTERED SEAL THE SURFACE WITH A SURFACE SEALING MATERIAL RECOMMENDED BY THE CHEMICAL GROUT MANUFACTURER.
 - DRILL HOLES STAGGERED, ON EACH SIDE OF THE CRACK AT SPACING RECOMMENDED BY THE CHEMICAL GROUT MANUFACTURER. FLUSH HOLES WITH WATER TO REMOVE DRILL DUST.
 - INSTALL INJECTION PACKERS ACCORDING TO SUBMITTED RECOMMENDATIONS OF THE CHEMICAL GROUT MANUFACTURER.
 - IF CONCRETE BEING INJECTED CONTAINS INSUFFICIENT MOISTURE TO ACTIVATE THE GROUT, INJECT GROUT WITH WATER AS RECOMMENDED BY THE MANUFACTURER PRIOR TO APPLICATION OF THE CHEMICAL GROUT.
 - CHEMICAL GROUT INJECTION SHALL BEGIN AT THE PACKER OF LOWEST ELEVATION. WHEN MATERIAL FLOW AND WATER MOVEMENT AT THE SURFACE STOPS, BEGIN INJECTING INTO THE NEXT PACKER. CONTINUE WORKING VERTICALLY UNTIL ALL PACKERS HAVE BEEN INJECTED.
 - AFTER SET OF CHEMICAL GROUT, REMOVE PACKERS AND EXCESS MATERIAL FROM EXPOSED SURFACES.
- UNEVEN CRACKS SHALL BE GROUND TO LESS THAN 1/8\"/>



CONCRETE CRACK SEALING FOR SLAB-ON-GRADE
TYPICAL DETAIL
NO SCALE

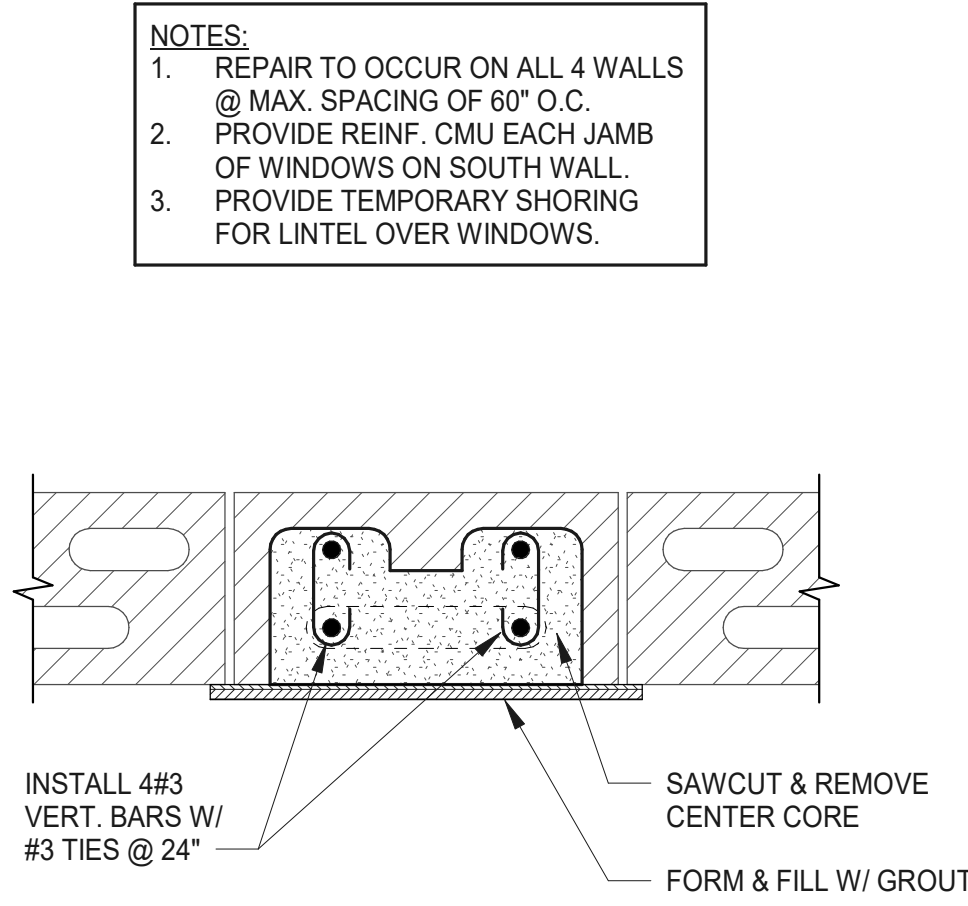


6 TOP OF EAST & WEST WALL BRACING

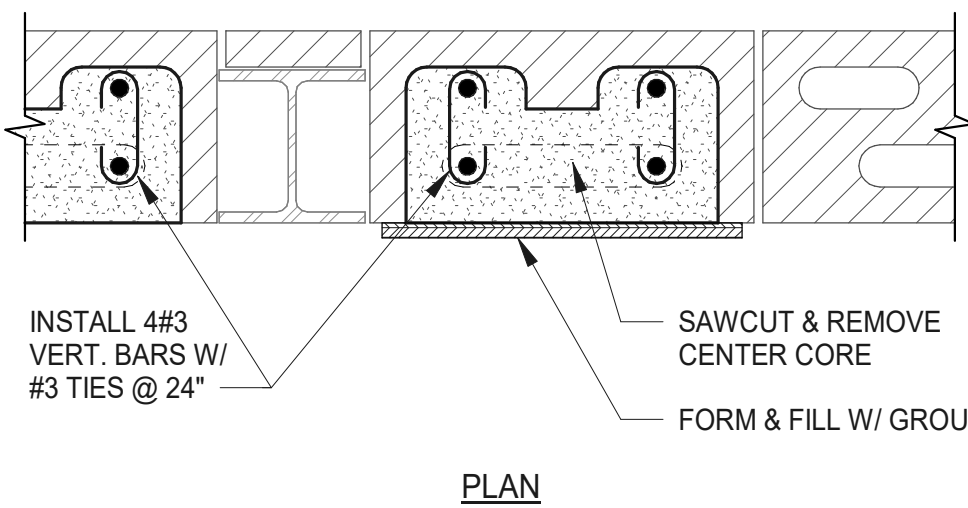


1\"/>

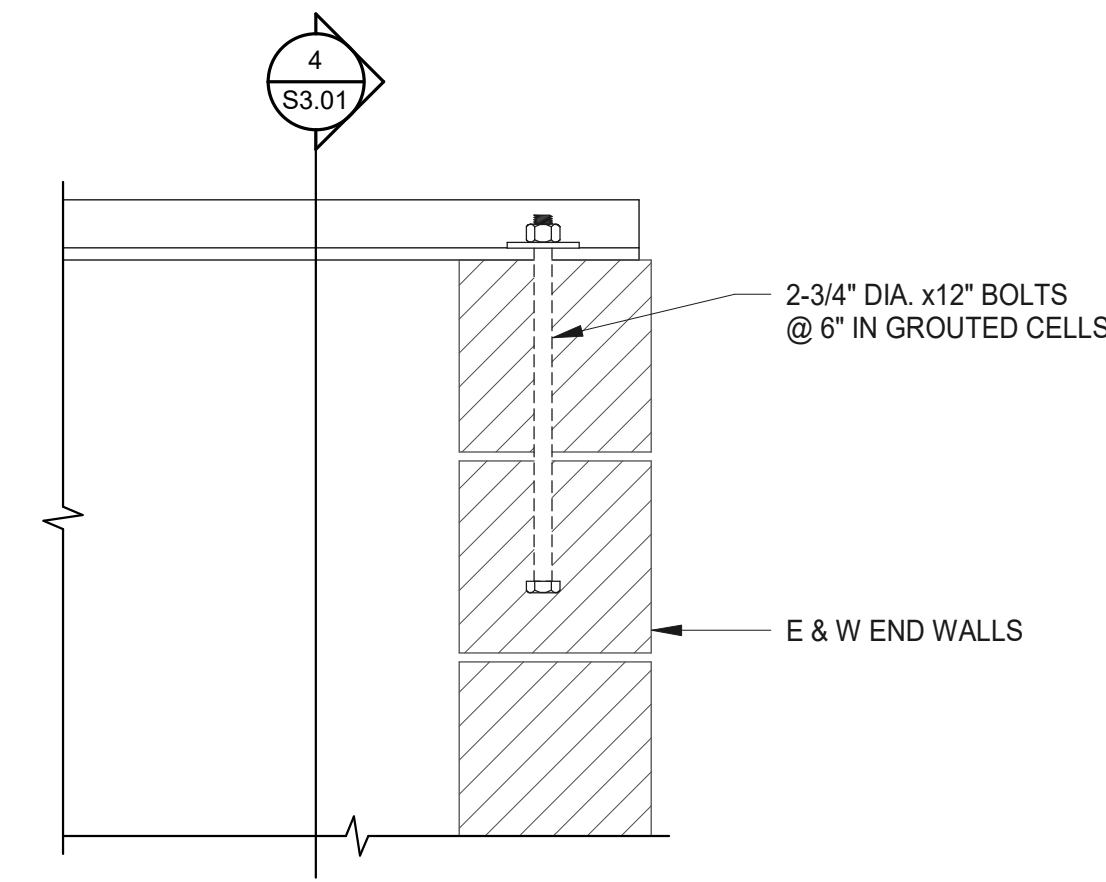
10



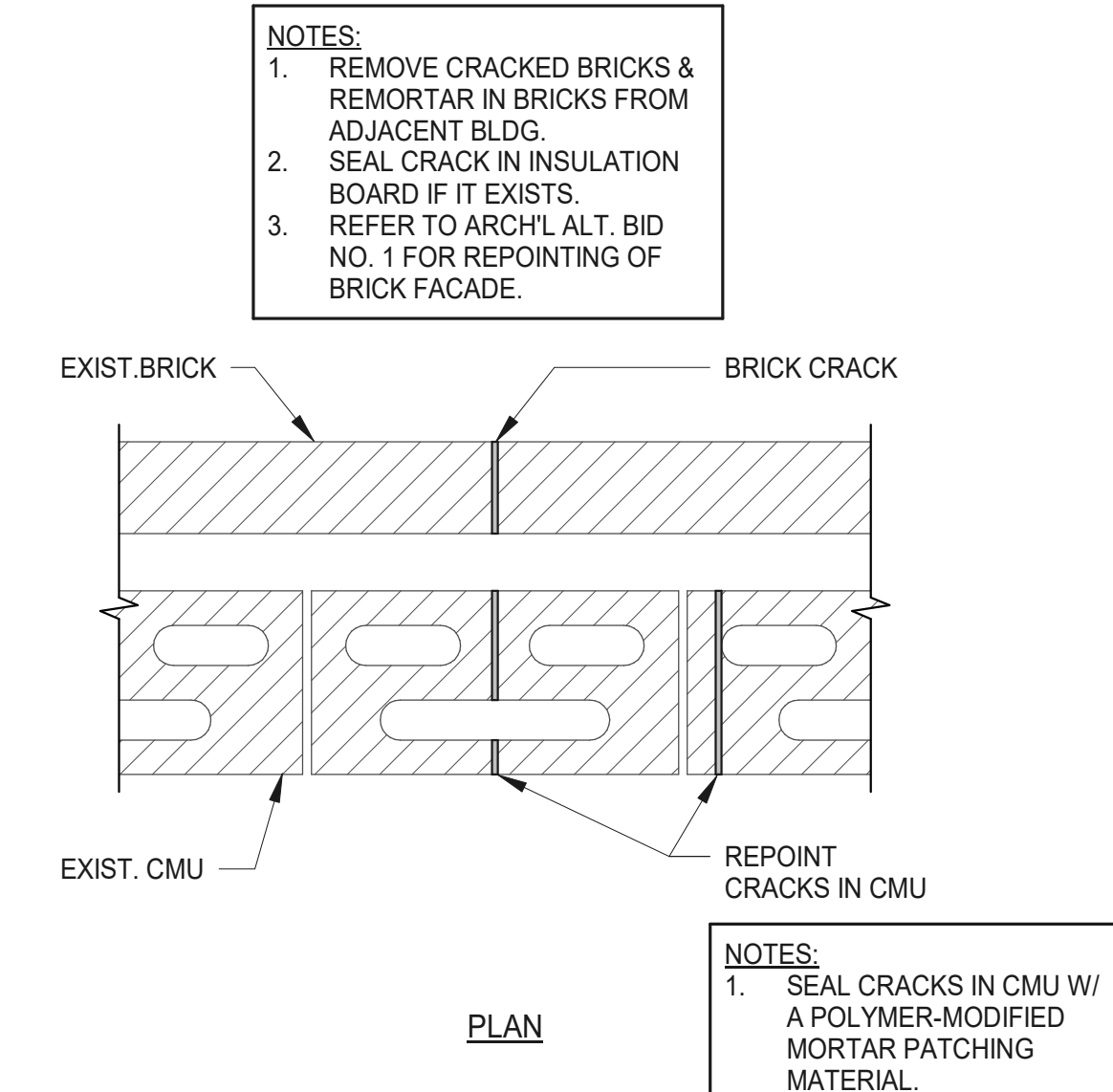
2 REINF. CMU WALLS



3 REINF. CMU WALLS AT COLUMNS



9 CHANNEL TERMINATION AT TOP OF WALLS

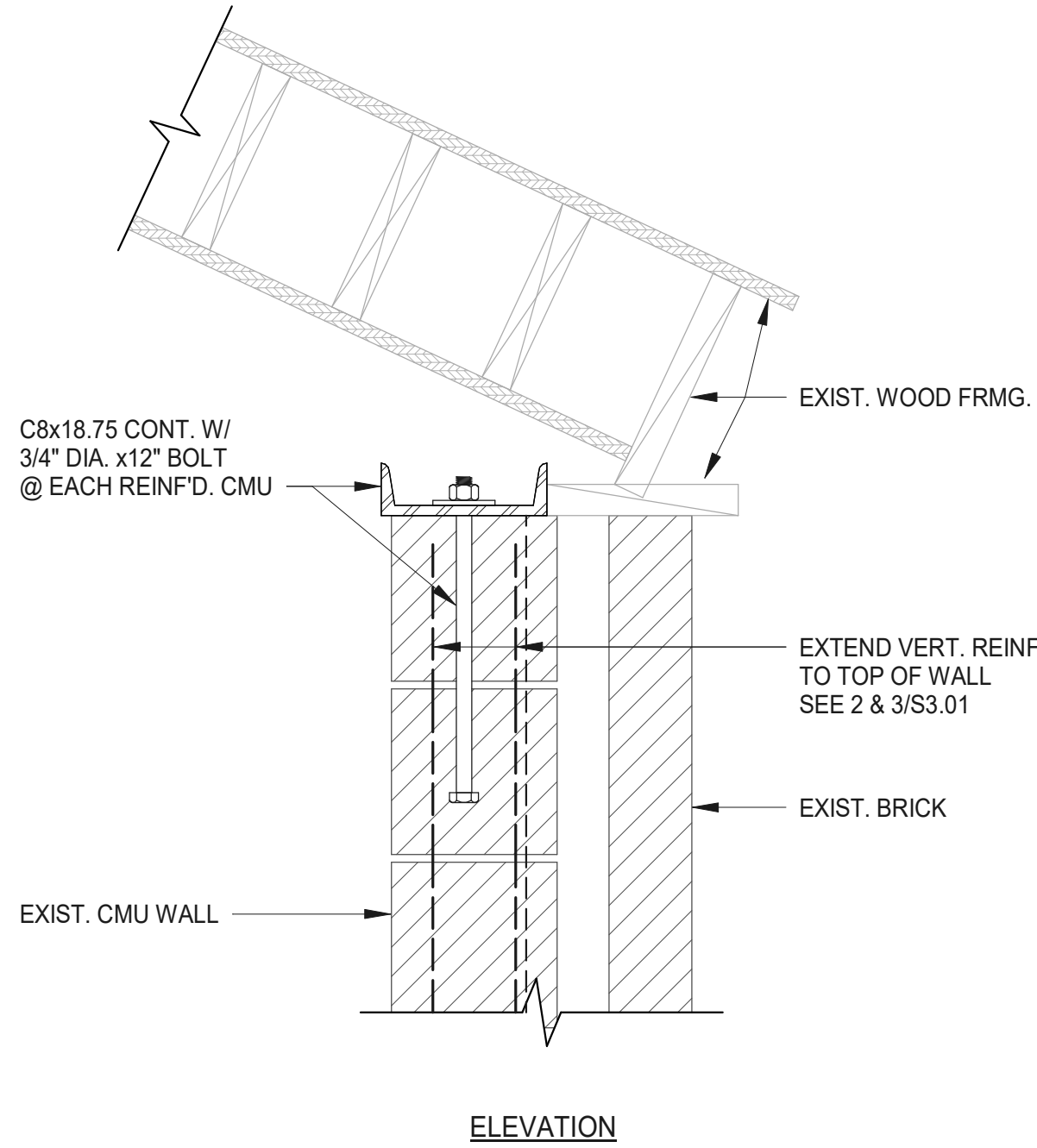
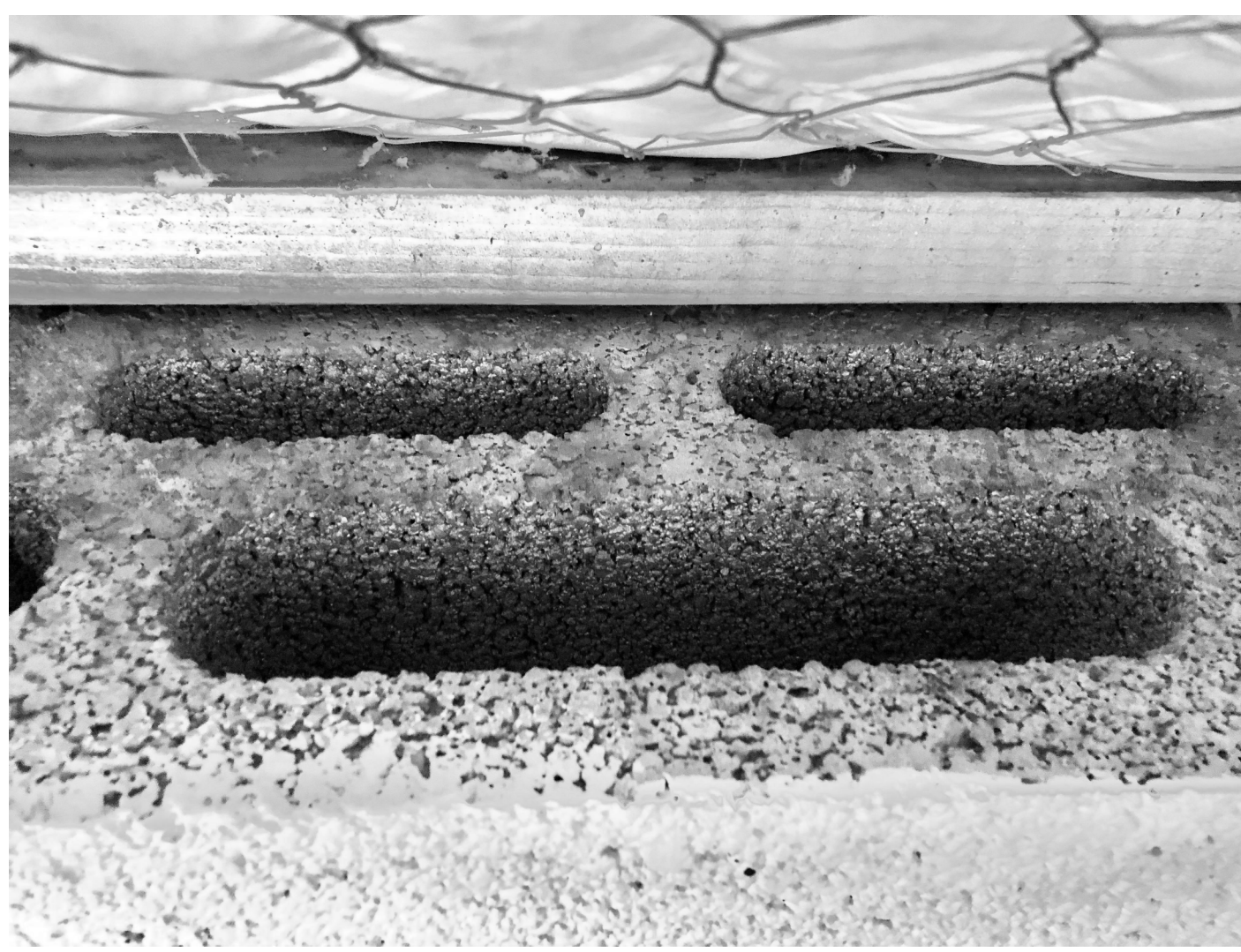


11 SEALING CRACKS IN CMU & BRICK



NOTES:
1. REMOVE OLD SEALANT AND REPLACE W/ 2 PART POLYURETHANE TYPE, EQUAL TO PECORA "DYNATRED" OR "TREMCO" SYSTEM.

12 REPLACE SEALANT BETWEEN SIDEWALK AND BRICK



4 BRACING TOP OF NORTH & SOUTH CMU WALLS

pfluger

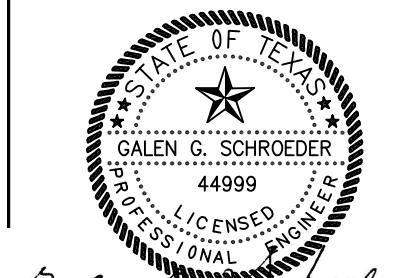
DATUM
ENGINEERS
www.datumengineers.com | Lic. Reg. No. F-2016
Dallas, TX 75201-0174 Austin, TX 78701-0009 San Antonio, TX 78201-0009
Datum Project No. 20186.01

HUTTO ISD GYM RENOVATION

200 COLLEGE STREET HUTTO, TX 78634

HUTTO ISD

200 COLLEGE STREET
HUTTO, TEXAS 78634



3/30/21

PROJECT NO. 20-038
DATE 3/30/21
REVISIONS:
Date Description

BID SET
S3.01
REPAIR DETAILS

ABBREVIATIONS

A	ABOVE FINISH FLOOR	EJ	EXPANSION JOINT	MTL	METAL	TB	TACK BOARD
ACC.FL	ACCESS FLOOR	EXT	EXTERIOR	MFD	METAL FLOOR DECK	TK, STP	TACK STRIP
AP	ACCESS PANEL	EPS	EXTRUDED POLY STYRENE	MRO	METAL ROOF DECK	TEL	TELEPHONE
ACOUS	ACOUSTICAL	F	FABRICATED	N, THR	METAL THRESHOLD	TV	TELEVISION
ACT	ACOUSTICAL CEILING TILE	FAB	FABRICATED	MIN	MILLWORK	THK	THICK
ADD	ADDENDUM	FV	FIELD VERIFY	MIR	MINIMUM	THR	THRESHOLD
ADJNT	ADJACENT	FIN	FIELD VERIFY	MIR	MIRROR	TO, COL	TOP OF COLUMN
ADJ	ADJUSTABLE	FIN FLR	FINISH FLOOR	MISC	MISCELLANEOUS	T.O.C	TOP OF CONCRETE
ADMIN	ADMINISTRATION	FNSH	FINISH FLOOR ELEVATION	MDO	MODULAR	T.O.F	TOP OF FOOTING
AGG	AGGREGATE	FO	FIRE ALARM	MDOG	MOLDING	T.O.J	TOP OF JOIST
AC	AIR CONDITIONING	FAC	FIRE ALARM	MT	MOUNT	T.O.P	TOP OF PARAPET
ALT	ALTERNATE, ALTERNATIVE	FDC	FIRE DEPARTMENT CONNECTION	MTD	MOUNTED	T.O.S	TOP OF STEEL
ALUM	ALUMINUM	FE	FIRE EXTINGUISHER	MOV	MOVE	TG	TONGS AND GROOVE
ANCH	ANCHOR, ANCHORAGE	FEC	FIRE EXTINGUISHER CABINET	MULL	MULLION	TR	TREAD
ANOD	ANODIZED	FHS	FIRE HOSE CABINET			TYP	TYPICAL
APPROX	APPROXIMATE	FPL	FIRE PLACE	N	NATURAL	U	UNDER CUT
ARCH	ARCHITECT	FP	FIRE PROOFING	NAT	NATURAL	UC	UNDER CUT
A.D.	AREA DRAIN	FRG	FIRE RESISTANT COATING	NR	NOISE REDUCTION	UNFIN	UNFINISHED
ASPH	ASPHALT	F RT	FIRE RETARDANT	NOM	NOMINAL	UNO	UNLESS NOTED OTHERWISE
AUTO	AUTOMATIC	FLSHG	FLASHING	N	NORTH	UR	URNAL
		FLEX	FLEXIBLE	NC	NOT IN CONTRACT		
		FLR	FLOOR	NTS	NOT TO SCALE		
B	BASMENT	FLR, C.O.	FLOOR CLEAN OUT	O	ON CENTER	VB	VAPOR BARRIER
BSMT	BENCH MARK	FD	FLOOR DRAIN	OC	ON CENTER	VAR	VARIES
BTWN	BETWEEN	FLR, JT	FLOOR JOINT	OCEW	ON CENTER EACH WAY	VNR	VENER
BEV	BEVEL	FLUR	FLOOR PLATE	OPG	OPENING	VIF	VERIFY IN FIELD
BIT	BITUMINOUS	FTG	FOOTING	OPP	OPPOSITE	VERT	VERTICAL
B/L	BLOCKING	FRMG	FRAMING	OH	OPPOSITE HAND	VIS	VERTICAL GRAB
BO	BOARD	FBO	FURNISHED BY OWNER	OH	OPPOSITE HAND	VIN	VINYL
B.S.	BOTH SIDES	FLURR	FURRED (ING)	O.A	OVER ALL	VIN, B	VINYL BASE
B.W.	BOTH WAYS	FUT	FUTURE	OVHRD	OVER HEAD	VCT	VINYL COMPOSITION TILE
B.O.D.	BOTTOM OF DECK	FRG	REFRIGERATOR	OFCD	OWNER FURNISHED CONTRACTOR	VIN, F	VINYL FABRIC
B/K	BRAKET	G	GALVANIZED	OFDI	OWNER FURNISHED OWNER INSTALLED	VIN, T	VINYL TILE
BRZ	BRONZE	GALV	GALVANIZED	P	PAINT	W	WANSOT
BLOG	BUILDING	GSKT	GASKET	PNT	PANIT	WH	WALL HUNG
BUR	BUILT UP ROOFING	GA	GAUGE	PTD	PAINTED	WC	WATER CLOSET
C	CABINET	GLS	GLASS	PNL	PANEL	WPR	WATER PROOFING
CAB	CABINET	GL, BLK	GLASS BLOCK	PB	PANIC BAR	WRP	WATER REPELLENT
CPT	CARPET	GL, CMU	GLAZED CONCRETE MASONRY UNIT	PDIS	PAPER TOWEL DISPENSER	WS	WATER STOP
CSMT	CASEMENT	GST	GLAZED STRUCTURAL TILE	PAR	PAPER TOWEL RECEPTACLE	WWF	WELODED WIRE FABRIC
CP	CAST IN PLACE CONCRETE	GRAB	GRAB BAR	PAR	PANEL	WWM	WELODED WIRE MESH
C.B.	CATCH BASIN	GBLK	GREEN BLOCK	P.BD	PARTICLE BOARD	WDW	WINDOW
CLG	CEILING	GRT	GROUT	PARTN	PARTITION	WGLS	WIRE GLASS
CLG, HT	CEILING HEIGHT	GYPCTE	GYPCRETE	PRT	PAGEMENT	WM	WIRE MESH
CEM	CEMENT	GYP, PL	GYPSPUM PLASTER	PERF	PERFORATED	W	WITH
CL	CENTERLINE	GYP T	GYPSPUM TILE	PERM	PERIMETER	WO	WITHOUT
CT	CERAMIC TILE	GWB	GYPSPUM WALL BOARD	PLAS	PLASTER	WD	WOOD
C.O.	CLEAN OUT	H	HARD BOARD	PLAM	PLASTIC LAMINATE	WD, B	WOOD BASE
CLR	CLEAR(ANCE)	HD, BD	HARD BOARD	PL	PLATE	W, PT	WORKING POINT
CLO	CLOSET	HD, JT	HARD JOINT	P.V.	PLYWOOD		
COL	COLUMN	HDW	HARDWARE	PVC	POLYVINYL CHLORIDE		
COMP1	COMPARTMENT	HDWD	HARDWOOD	PREFAB	PREFABRICATED		
COMP2	COMPRESS	HDR	HEADER	PREFIN	PREFINISHED		
COMP	COMPUTER	HTG	HEATING	P.L	PROPERTY LINE		
CONC	CONCRETE	HVAC	HEATING, VENTILATION, AIR CONDITIONING	Q	QUARRY TILE		
CMU	CONCRETE MASONRY UNIT	HV, D	HEAVY DUTY	QT	QUARRY TILE		
CONST	CONSTRUCTION	HT	HEIGHT	R	RADIUS		
CONT	CONTINUOUS	HC	HOLLOW CORE	REF	REFERENCE		
CONTR	CONTRACTOR	HM	HOLLOW METAL	RAD	RADIUS		
CFCI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	HORIZ	HORIZONTAL	REF	REFERENCE		
C.J.	CONTROL JOINT	HB	HOSE BIB	RFL	REFLECTED		
CPR	COPPER	HR	HOT WATER HEATER	REG	REGISTER		
CG	CORNER GUARD	HS	HOUR	RENF	REINFORCING		
CORR	CORRIDOR	I	INCLUDE	REM	REMOVE		
CTR	COUNTER	INCL	INCLUDE	REQD	REQUIRED		
C, FL	COUNTER FLASHING	INCL	INCLUDE	RES	RESILIENT		
CTR, SNK	COUNTER SINK	ID	INSIDE DIAMETER	RET	RETURN		
CRS	COURSE	INSUL	INSULATION	RA	RETURN AIR		
CU, FT	CUBIC FEET	INT	INTERIOR	RVS	REVERSE		
CU, YD	CUBIC YARD	INTERM	INTERMEDIATE	REV	REVISION		
D	DAMP PROOFING	INV	INVERT	RH	RIGHT HAND		
DPR	DAMP	J	JANITOR	R.O.W	RIGHT OF WAY		
DL	DEAD LOAD	JAN	JANITOR	RO	ROOF DRAIN		
DEMO	DEMOLISH, DEMOLITION	J.C	JANITORS CLOSET	RF, HT	ROOF HEIGHT		
DEP	DEPRESS	JT	JOINT	RFG	ROOFING		
DTL	DETAIL	JF	JOINT FILLER	RM	ROOM		
DIAG	DIAGONAL	JST	JOIST	RO	ROUGH OPENING		
DIAM	DIAMETER	K	KICK PLATE	RB	RUBBER BASE		
DW	DISH WASHER	K, PL	KICK PLATE	S	SAFETY GLASS		
DISPR	DISPENSER	KIT	KITCHEN	SF, GL	SCHEDULE		
DIV	DIVISION	K.O	KNOCK OUT	SINT	SEALANT		
DR	DOOR	L	LABORATORY	STG	SEATING		
DRL, BD	DRAIN BOARD	L	LABORATORY	SCIN	SECTION		
DRL, TL	DRAIN TILE	LAB	LABORATORY	SHTR	SHEATHING		
DWR	DRAWER	LAM	LAMINATE	SHT	SHEET		
DWG	DRAWING	LAV	LAVATORY	SH, GL	SHEET GLASS		
DF	DRINKING FOUNTAIN	LH	LEFT HAND	SHR	SHORING		
E	EACH	LC	LIGHT CONTROL	SHM	SIMILAR		
EA, FA	EACH FACE	LT, WT	LIGHT WEIGHT	SKYLT	SKYLIGHT		
E	EAST	LT	LIGHT, RE, ELECTRICAL	SLV	SLEEVE		
ELEC	ELECTRIC	LT, CONC	LIGHTWEIGHT CONCRETE	SC	SOLID CORE		
EPF	ELECTRIC DRINKING FOUNTAIN	LMTN	LIMESTONE	SOW	SOLID CORE WOOD		
EP	ELECTRICAL PANEL	LTL	LINTEL	S	SOUTH		
ELEV	ELEVATION	LL	LIVE LOAD	SPCR	SPACER		
EMERG	EMERGENCY	LB	LOAD BEARING	SPKR	SPEAKER		
ENCL	ENCLOSURE	LPT	LOW POINT	SPEC	SPECIFICATIONS		
EQU	EQUIP	M	MAN HOLE	SQ	SQUARE		
EQU	EQUIPMENT	MH	MAN HOLE	S.S	STAINLESS STEEL		
ESC	ESCALATOR	MFR	MANUFACTURE	STD	STANDARD		
EXCAV	EXCAVATE	MRB	MARBLE	STA	STATION		
EXH	EXHAUST	MB	MARKER BOARD	STL	STEEL		
EXST	EXISTING	MAS	MASONRY	STN	STONE		
EXP	EXPANSION	M.O	MASONRY OPENING	STOR	STORAGE		
		MU	MASONRY UNIT	SD	STORM DRAIN		
		MATL	MATERIAL	STRCT	STRUCTURE (TURAL)		
		MAX	MAXIMUM	SUSP	SUSPENDED		
		MECH	MECHANICAL	SYM	SYMMETRICAL		
		MEP	MECHANICAL/ELECTRICAL/PLUMBING	SYN	SYNTHETIC		
		M.C	MEDICINE CABINET	SYS	SYSTEM		
		MEMB	MEMBRANE	T			

SYMBOLS & LEGENDS

ARCHITECTURAL DRAWING SYMBOLS

	ROOM TAG WITH ROOM FINISH		COLUMN GRID
	ROOM TAG WITH OCCUPANCY SF= SQUARE FEET P= PEOPLE		5' DIAMETER ADA TURN AROUND
	DOOR TAG		REVISION TAG
	PARTITION TAG		REVISION CLOUD
	HOLLOW METAL FRAME TAG		ALIGN FACES
	ALUMINUM FRAME TAG		NOTE BY NUMBER - SHAPE MAY VARY
	EXPANSION JOINT		NORTH ARROW
	ENLARGED CALL OUT		EXIT POINT WITH WIDTH INDICATED IN INCHES OCCUPANT LOAD SHOWN VERTICAL P= PROVIDED EXIT WIDTH OF EGRESS COMPONENT R= REQUIRED EXIT WIDTH OF EGRESS COMPONENT
	BUILDING SECTION TAG		FIRE EXTINGUISHER CABINET
	WALL SECTION TAG		FIRE EXTINGUISHER
	DETAIL SECTION TAG		CENTER LINE
	EXTERIOR ELEVATION TAG		MATCH LINE
	INTERIOR ELEVATION TAG		PROPERTY LINE
	VIEW REFERENCE DETAIL		BREAK LINE
	ELEVATION LEVEL TAG		LONGEST TRAVEL DISTANCE TO EXIT
	BUILDING EXIT		

WALL LEGEND

	EXISTING WALL TO REMAIN
	METAL STUD PARTITION
	CMU PARTITION
	1 HR WALL CONSTRUCTION
	1 HR CMU WALL CONSTRUCTION
	2 HR WALL CONSTRUCTION
	2 HR CMU WALL CONSTRUCTION

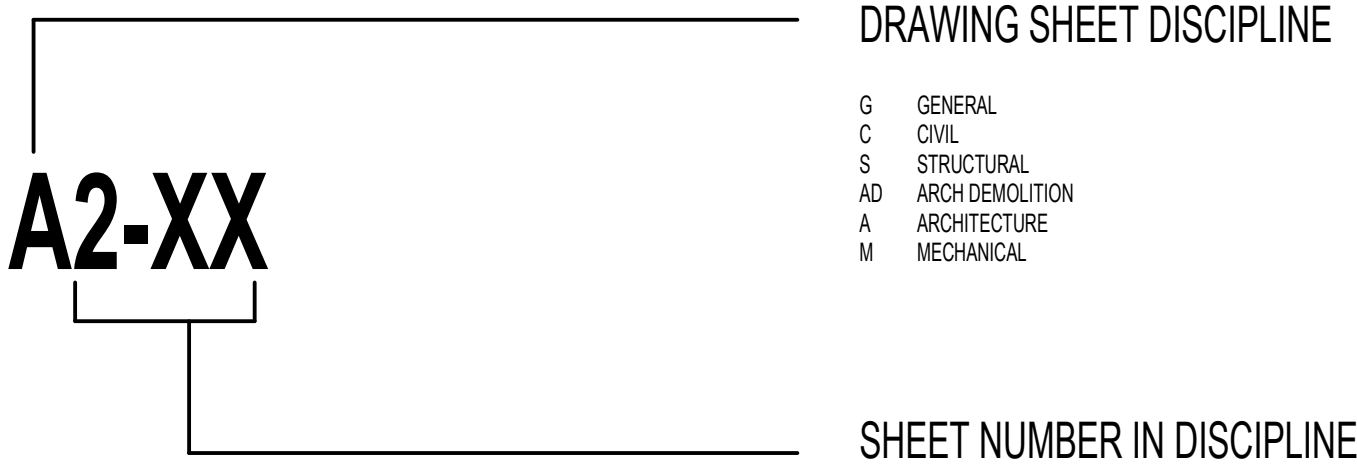
MATERIALS LEGEND

	EARTH (COMPACTED)
	POURIOUS FILL (STONE OR GRAVEL)
	CONCRETE
	PLASTER/SANDIMENT/CEMENT GROUT
	BRICK (COMMON OR FACE)
	CONCRETE MASONRY UNIT (CMU)
	METAL (LARGE SCALE)
	METAL (SMALL SCALE)
	BATT INSULATION
	RIGID BOARD OR SPRAY FOAM INSULATION
	ROUGH WOOD (CONTINUOUS)
	ROUGH WOOD (NON-CONTINUOUS)
	FINISH WOOD
	PLYWOOD

PROJECT GENERAL NOTES

1. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO PROVIDE A WATERTIGHT & WEATHERTIGHT BUILDING
2. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO PROVIDE A PLUM, LEVEL AND SQUARE STRUCTURE UNLESS OTHERWISE NOTED ANY DEVIATION FROM THIS GENERAL INTENT SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION
3. THE BUILDING SHALL BE CONSTRUCTED IN FULL COMPLIANCE WITH ALL THE APPLICABLE CODES, ORDINANCES AND REGULATIONS AS WELL AS THE DRAWINGS & SPECIFICATION. ANY CODE DEFICIENCIES IN THE DRAWINGS RECOGNIZED BY THE CONTRACTOR SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION
4. THE CONTRACTOR SHALL VISIT PROJECT SITE TO FAMILIARIZE THEMSELVES WITH THE SCOPE OF WORK AND TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING. ANY AMBIGUOUS ITEMS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING PRIOR TO SUBMITTING PROPOSAL
5. THE CONTRACTOR IS TO COMPLY WITH FEDERAL, STATE, AND LOCAL CODES REQUIREMENTS, AND COMPLETE TEXAS HEALTH DEPARTMENT NOTIFICATIONS AND SUBMIT FORMS AND REQUIRED INFORMATION TO MEET " TEXAS COMMISSION ON ENVIRONMENTAL QUALITY" (TCEQ) REQUIREMENTS PRIOR TO START OF PROJECT
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE PLACEMENT OF THE BUILDING ON THE SITE AND VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. DISCREPANCIES BETWEEN DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE BIDDING THE PROJECT OR THE COMMENCEMENT OF WORK. THE OWNER SHALL NOT BE RESPONSIBLE FOR CHANGES TO THE WORK DUE TO THE FAILURE OF THE CONTRACTOR TO FAMILIARIZE HISHER SELF WITH EXISTING CONDITIONS
7. DO NOT SCALE DRAWINGS: ALL DIMENSIONS SHALL HAVE PREFERENCE OVER SCALE AND BE FIELD VERIFIED AND COORDINATED WITH WORK OF ALL TRADES. IF NO DIMENSIONS ARE GIVEN OR DISCREPANCIES FOUND, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR CLARIFICATION BEFORE BIDDING OR COMMENCING THE WORK.
8. DETAILS ARE INTENDED TO SHOW METHOD AND MANNER OF ACCOMPLISHING WORK. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, ALL INCLUDED AS PART OF THE WORK.
9. THE CONTRACTOR SHALL PROVIDE ALL PERMITS AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION OF THE WORK IN ACCORDANCE WITH APPLICABLE CODES AND GOVERNING REGULATIONS
10. THE CONTRACTOR SHALL VERIFY THE SIZES AND LOCATIONS OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT PADS AND BASES, AS WELL AS POWER, WATER AND DRAIN REQUIREMENTS FOR SUCH EQUIPMENT WITH EQUIPMENT MFG. DEVIATION OF BEFORE MENTIONED REQUIREMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION
11. DEMOLITION SHALL GENERALLY BE ARRANGED TO AGREE WITH THE ACCOMPLISHMENT OF WORK IN COORDINATION WITH THE WORK OF OTHER TRADES. REVIEW ALL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
12. ALL INTERIOR INSULATION SHALL BE NON-COMBUSTIBLE
13. ALL WINDOW OPENING SILL FLASHING SHALL BE END DAMMED
14. PROVIDE FIRE STOPS WHEREVER INTERIOR AND EXTERIOR WALLS AND PARTITIONS INTERSECT FLOORS, CEILINGS, AND ROOFS. ALSO PROVIDE AT ALL OPENINGS ABOVE PENETRATIONS TO PREVENT VERTICAL & HORIZONTAL COMMUNICATION OF FIRE ALONG LINES OF CORRIDORS, OCCUPANCY CHANGES, AND SIMILAR SEPARATIONS.
15. ALL WALL WIDTHS ARE SHOWN AND DIMENSIONED WITH NOMINAL DIMENSIONS. (I.E. 8" CMU = 7 5/8"). DIMENSIONS FOR FRAMED WALLS ARE SHOWN TO FACE OF STUDS AND/OR FACE OF BLOCK.
16. CONTRACTOR IS TO PROVIDE BLOCKING AS REQUIRED FOR PROPER SUPPORT OF WALL AND CEILING MOUNTED EQUIPMENT
17. CONTRACTOR IS TO DOUBLE- UP STUDS AT ALL DOOR OR CASED OPENINGS
18. VERIFY ALL DIMENSIONS BEFORE ORDERING MATERIALS AND PROCEEDING WITH THE WORK
19. ALL CONSTRUCTION AND EQUIPMENT IS NEW, UNLESS NOTED OTHERWISE
20. WHERE APPLICABLE, INSTALL ACCESS PANELS FOR VALVES, DAMPERS, CONTROLS, ETC. AND OTHERWISE INDICATED. COORDINATE WITH ARCHITECT & MEP ENGINEER PRIOR TO SELECTION AND INSTALLATION
21. DIFFUSERS, LIGHT FIXTURES, ETC., ARE INDICATED ON THE REFLECTED CEILING PLAN FOR LOCATION AND COORDINATION. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
22. COORDINATE ROOF PENETRATIONS WITH M.E.P. DRAWINGS-PENETRATIONS SHALL BE FLASHED TO MEET " SMOCK" DETAIL REQUIREMENTS
23. WHERE DISSIMILAR MATERIALS MEET, PROVIDE BACKER ROD AND SEALANT TO SEAL JOINT, TYPICAL
24. ALL GYPSUM BOARD SHALL BE COATED IN ORGANIC GLASS MAT FACED, WATER RESISTANT TREATED GYPSUM CORE WALLBOARD.
25. GENERAL CONTRACTORS AND SUB-CONTRACTORS ARE TO SCHEDULE AND COMPLETE THEIR WORK SO AS TO KEEP MECHANICAL, ELECTRICAL, TELEPHONE, DATA, HVAC CONTROL, INTERCOM, AND OTHER EXISTING SYSTEMS OPERATIONAL IN AREAS OCCUPIED BY THE OWNER DURING THE RENOVATION AND CONSTRUCTION OF THE PROJECT
26. WHERE EXISTING OR NEW EXPANSION JOINTS ARE EXPOSED DUE TO NEW CONSTRUCTION OR RENOVATION, PROVIDE APPROVED FLOOR, WALL, AND/OR CEILING EXPANSION JOINT COVER ASSEMBLIES AS REQUIRED.
27. WHERE NEW FLOORING IS TO BE INSTALLED ON TOP OF EXISTING FLOOR SLAB, PROVIDE FLOOR LEVELING COMPOUND AS REQUIRED TO PROVIDE LEVEL, WORKABLE SURFACE FOR NEW FINISHES
28. CONTRACTOR IS TO ENSURE THAT NEW AND/OR EXISTING MECHANICAL, ELECTRICAL, DATA AND CONTROL SYSTEMS ARE CONCEALED TO THE GREATEST EXTENT AS POSSIBLE UNLESS OTHERWISE NOTED
29. CONTRACTOR SHALL CROSS REFERENCE STRUCTURAL COMPONENT DIMENSIONS WITH STRUCTURAL DRAWINGS AND NOTIFY ARCHITECT OF DISCREPANCIES PRIOR TO INSTALLATION
30. ALL EXPOSED METALS EXCEPT GALVANIZED AND PRE-FINISHED ITEMS, SHALL BE FINISH PAINTED- COLOR TO BE SELECTED BY ARCHITECT. REF SPECS FOR FIELD WELDS AT GALV
31. WHERE THE WORDS "PATCH", "MATCH", "REPAIR", "REPLACE", ARE USED SPECIAL CARE SHALL BE TAKEN TO ENSURE THAT COLORS, TEXTURES AND FINISH OF DISTURBED AREAS SHALL MATCH IN ALL RESPECTS. REPLACE IS DEFINED AS REMOVE EXISTING AND INSTALL NEW INCLUDING ALL APPROPRIATE ELECTRICAL CONNECTIONS AND WITH MATCHING OR COMPATIBLE EQUIPMENT OR MATERIALS AS SHOWN, SPECIFIED OR REQUIRED FOR COMPLETE INSTALLATION.
32. ALL SURFACE MOUNTED CONDUIT TO BE INSTALLED AT 90 DEGREE ANGLES WHERE POSSIBLE. PAINT ALL CONDUIT TO MATCH WALL AREA IN WHICH IT IS ATTACHED.

SHEET NAMING CONVENTION

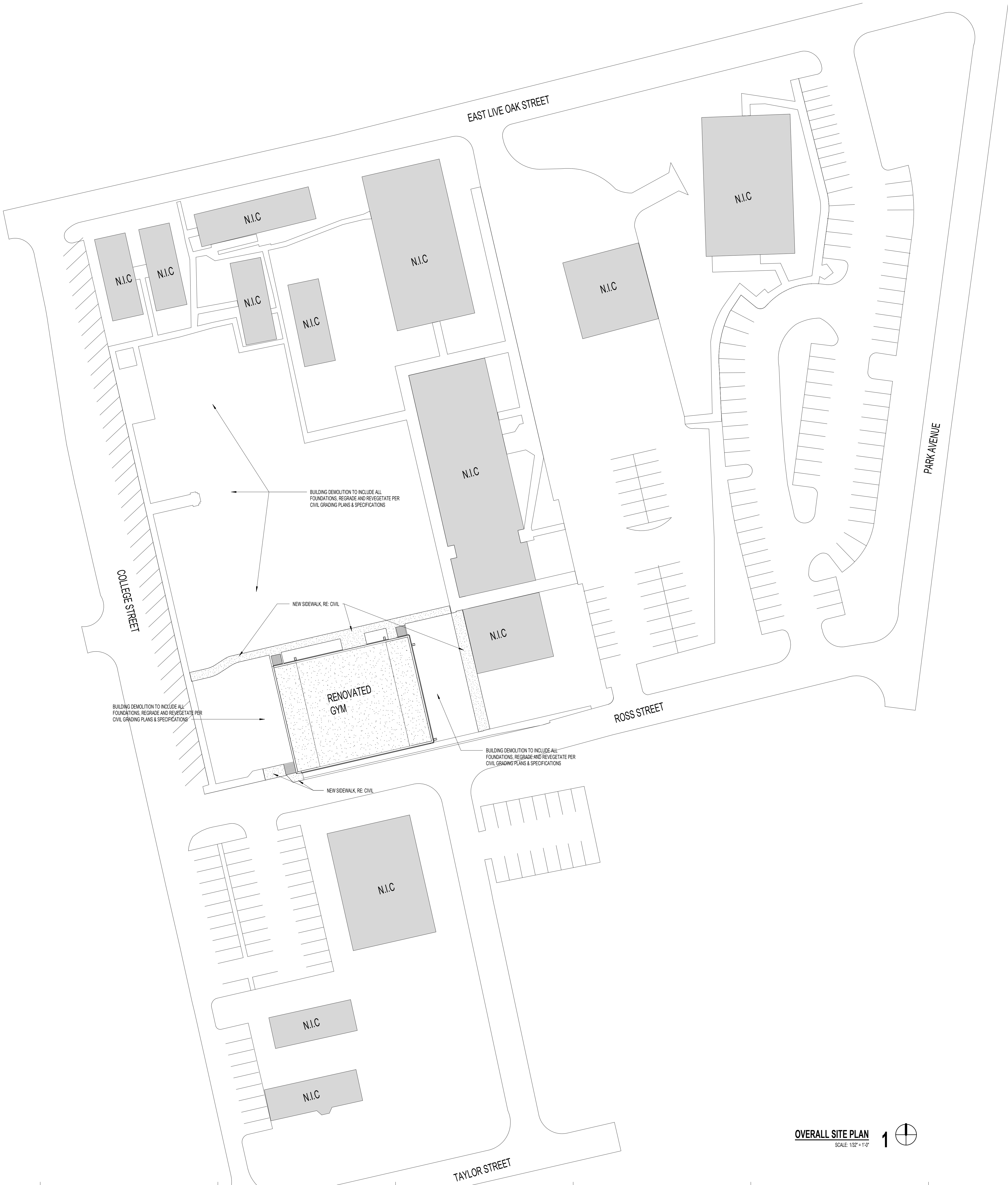


DRAWING SHEET DISCIPLINE

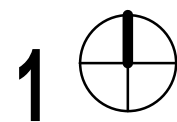
G	GENERAL	P	PLUMBING
C	CIVIL	E	ELECTRICAL
S	STRUCTURAL	T	TECHNOLOGY
AD	ARCH DEMOLITION		
A	ARCHITECTURE		
M	MECHANICAL		

SHEET NUMBER IN DISCIPLINE





OVERALL SITE PLAN
SCALE: 1/32" = 1'-0"



DATE: 04/05/2021

PROJECT NO. 20-038
DATE: 04/05/2021
DRAWN BY: DRW CHECKED BY: JMM
REVISIONS:
Date Description

BID SET
A1.00
ARCHITECTURAL SITE
PLAN

HUTTO ISD GYM RENOVATION

302 COLLEGE STREET HUTTO, TX 78634

HUTTO ISD

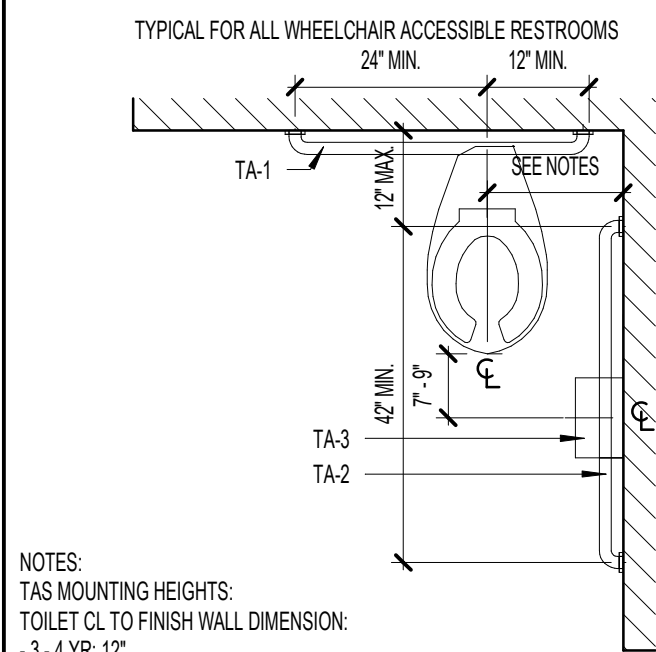
200 COLLEGE STREET
HUTTO, TEXAS 78634

pfluger

office: 512.476.4040 | fax: 512.476.4289
209 E. Riverside Drive Austin, Texas 78704

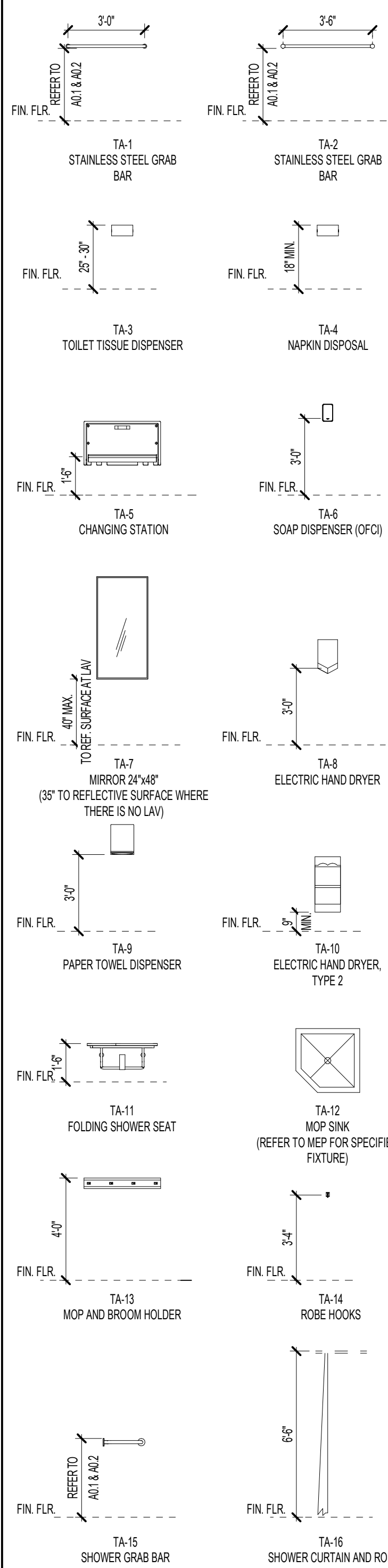
pflugerarchitects.com

RESTROOM WHEELCHAIR ACCESS, TYPICAL



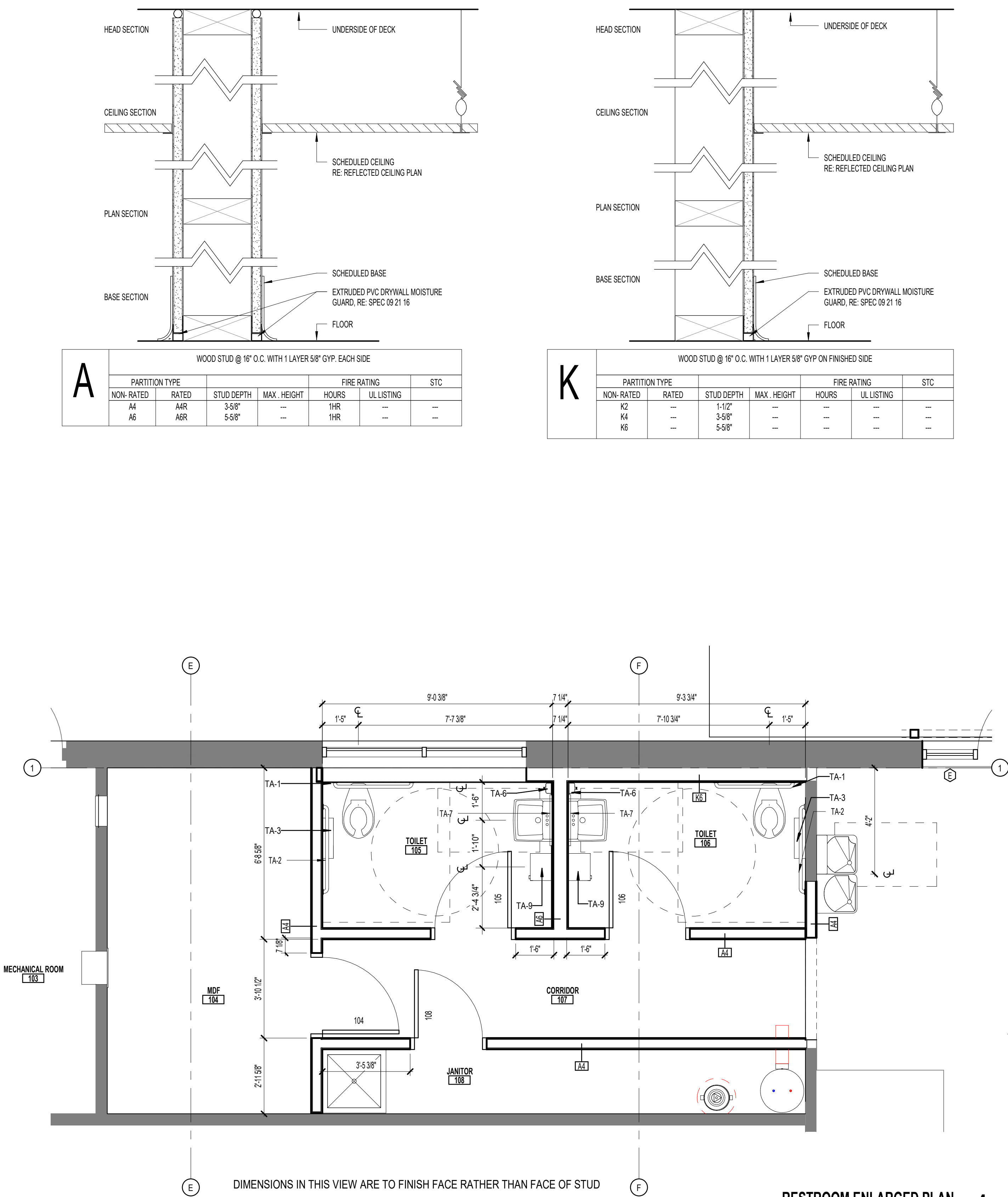
NOTES:
TAS MOUNTING HEIGHTS:
TOILET CL. TO FINISH WALL DIMENSION:
• 3-4 YR: 12\"/>

TYPICAL MOUNTING HEIGHTS, U.N.O.

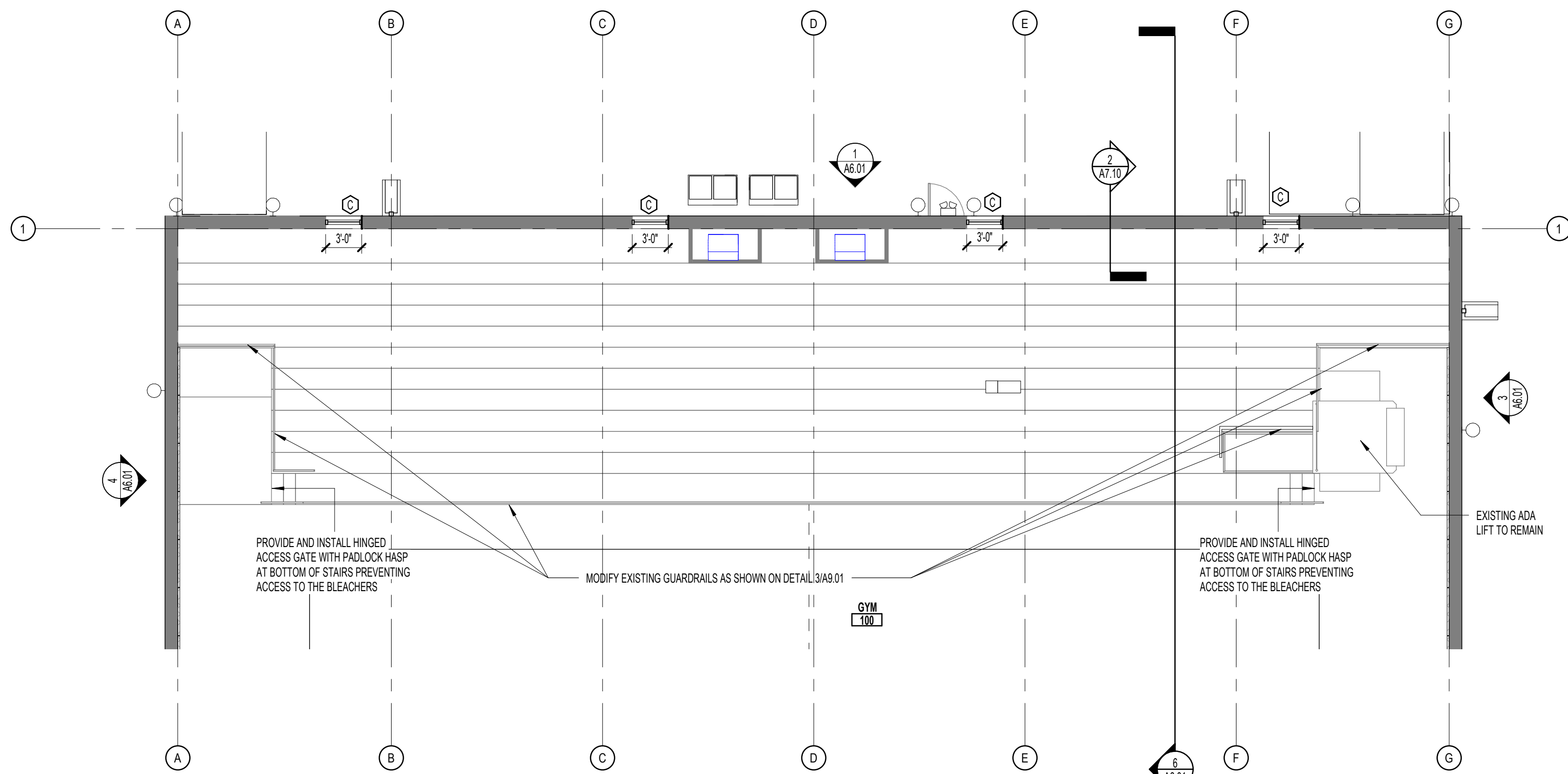


ENLARGED PLANS: GENERAL NOTES

1 ALL DIMENSIONS AT ENLARGED PLANS ARE TO OUTSIDE FACE OF GYP. BD. / FACE OF CMU/TILT WALL.



RESTROOM ENLARGED PLAN
SCALE: 3/8\"/>



FLOOR PLAN - GYM BLEACHERS

SCALE: 1/8\"/>

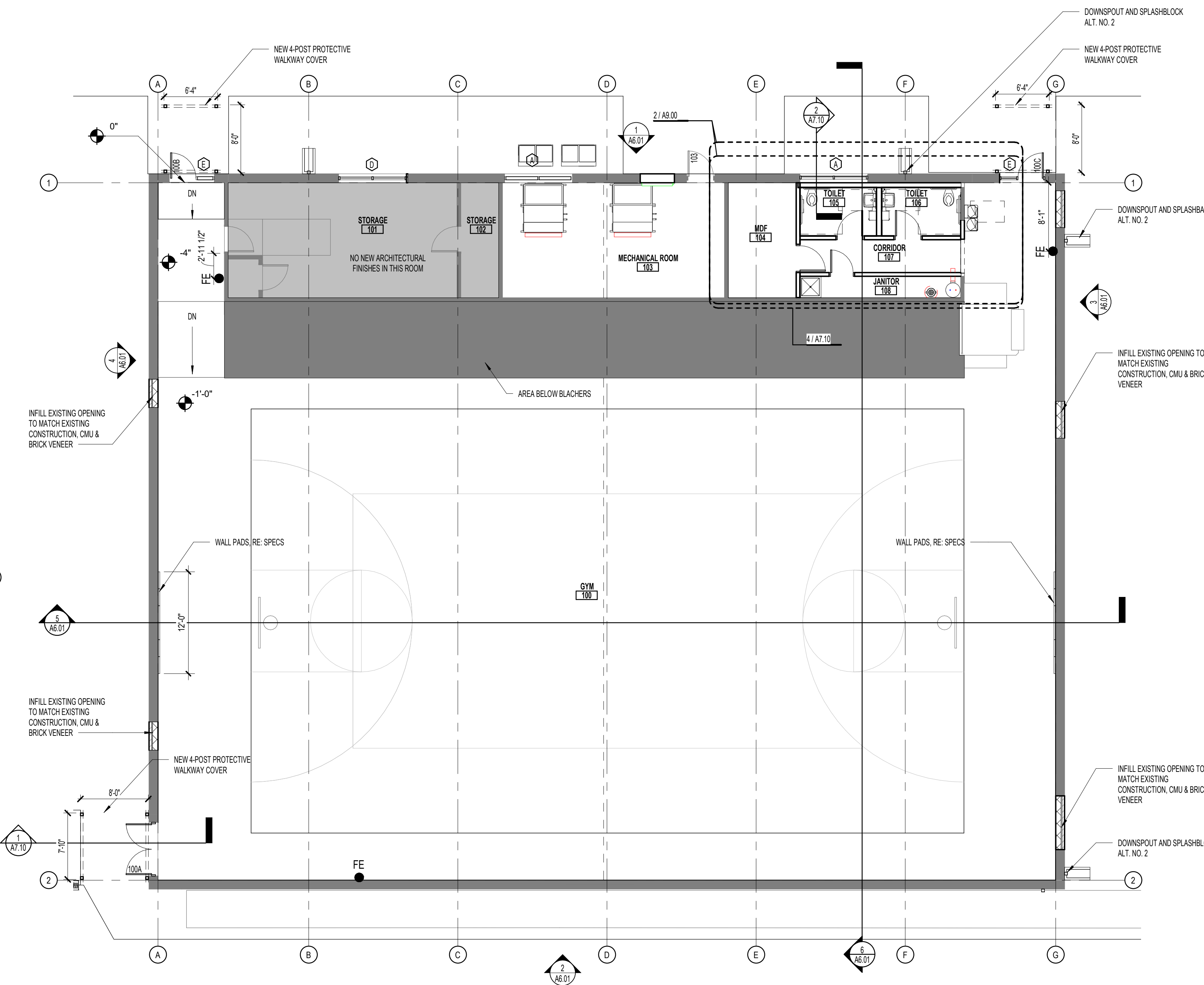
2

FLOOR PLAN GENERAL NOTES

1. REFER TO SHEET A.0.0 FOR ADDITIONAL GENERAL NOTES.
2. RE SHEET A2.01 FOR PARTITION TYPES
3. DIMENSIONS SHOWN ON THE FLOOR PLANS ARE TO THE FACE OF STUD/FACE OF CMU/FACE OF TILT WALL OF INTERIOR WALLS, UNLESS OTHERWISE INDICATED.
4. ALL SINKS AND LAVATORIES SHALL BE MOUNTED SO THAT THE CENTERLINE OF THE FIXTURE IS 1\"/>
5. PROVIDE MINIMUM 1'-0\"/>

FLOOR PLAN LEGEND

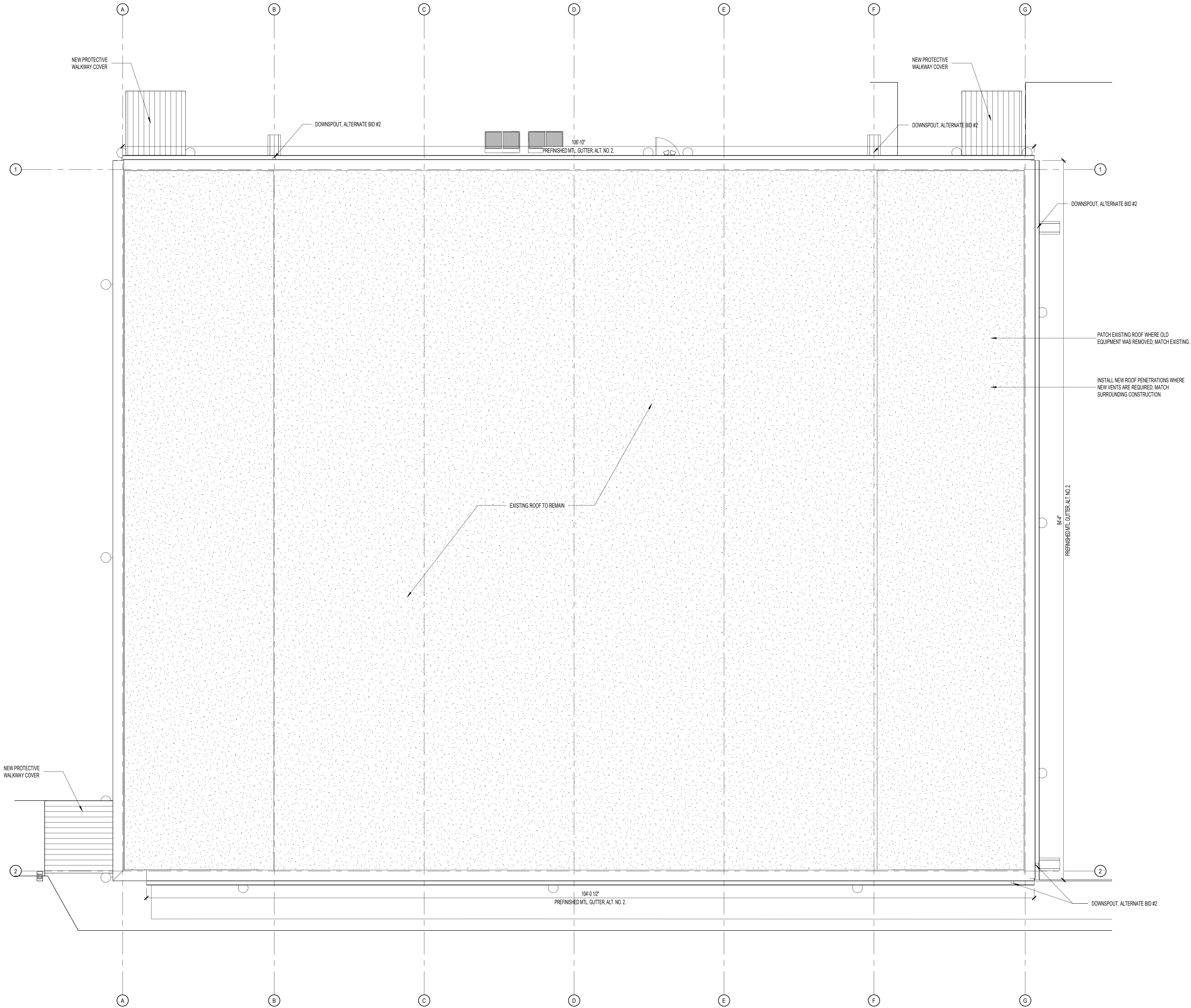
- NEW CONSTRUCTION
- EXISTING NOT IN SCOPE
- EXPANSION JOINT
- COLUMN GRID
- EXTERIOR ELEVATION TAG
- INTERIOR ELEVATION TAG
- BUILDING SECTION TAG
- WALL SECTION TAG
- ENLARGED CALL OUT
- DOOR TAG
- PARTITION TAG
- HOLLOW METAL WINDOW TAG
- ALUMINUM WINDOW TAG
- 5\"/>



FLOOR PLAN

SCALE: 1/8\"/>

1



ROOF PLAN
SCALE: 3/16" = 1'-0"

1

HUTTO ISD

HUTTO ISD GYM RENOVATION

200 COLLEGE STREET
HUTTO, TEXAS 78634



DATE: 04/05/2021

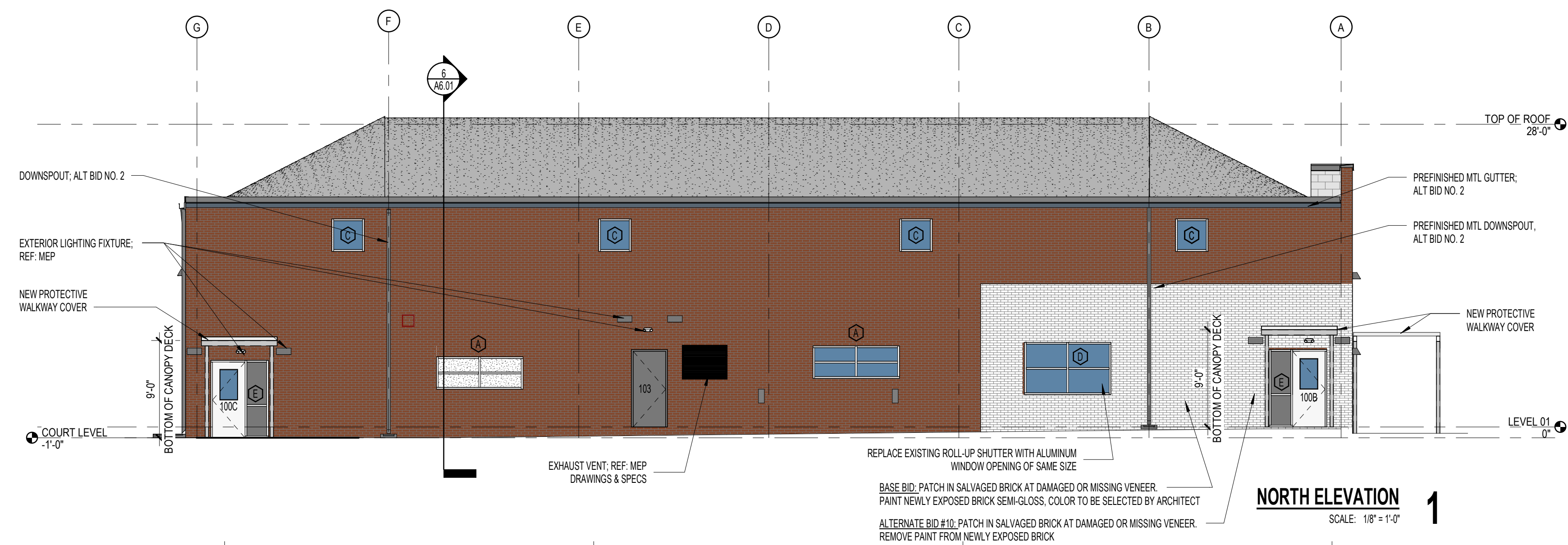
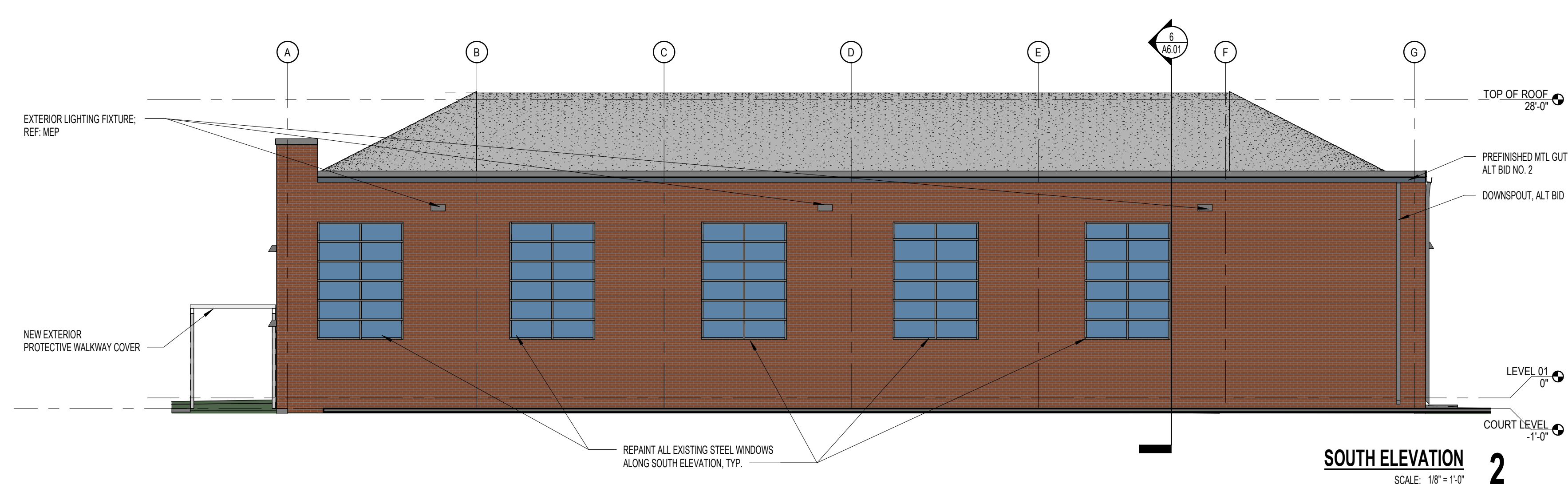
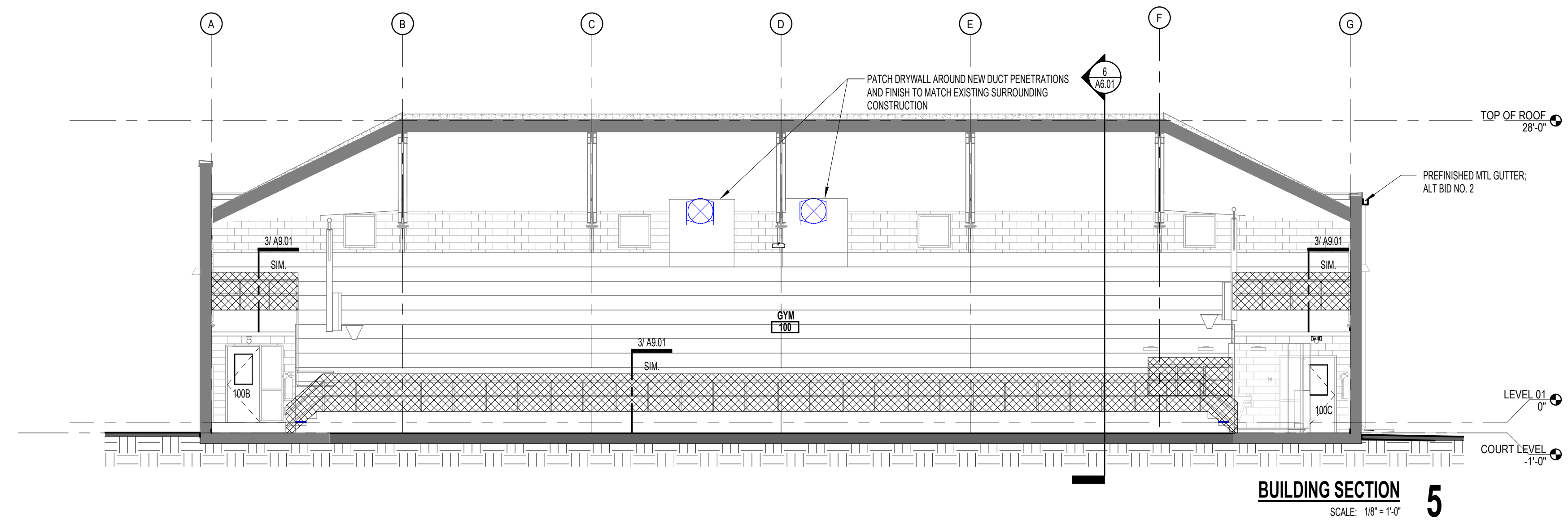
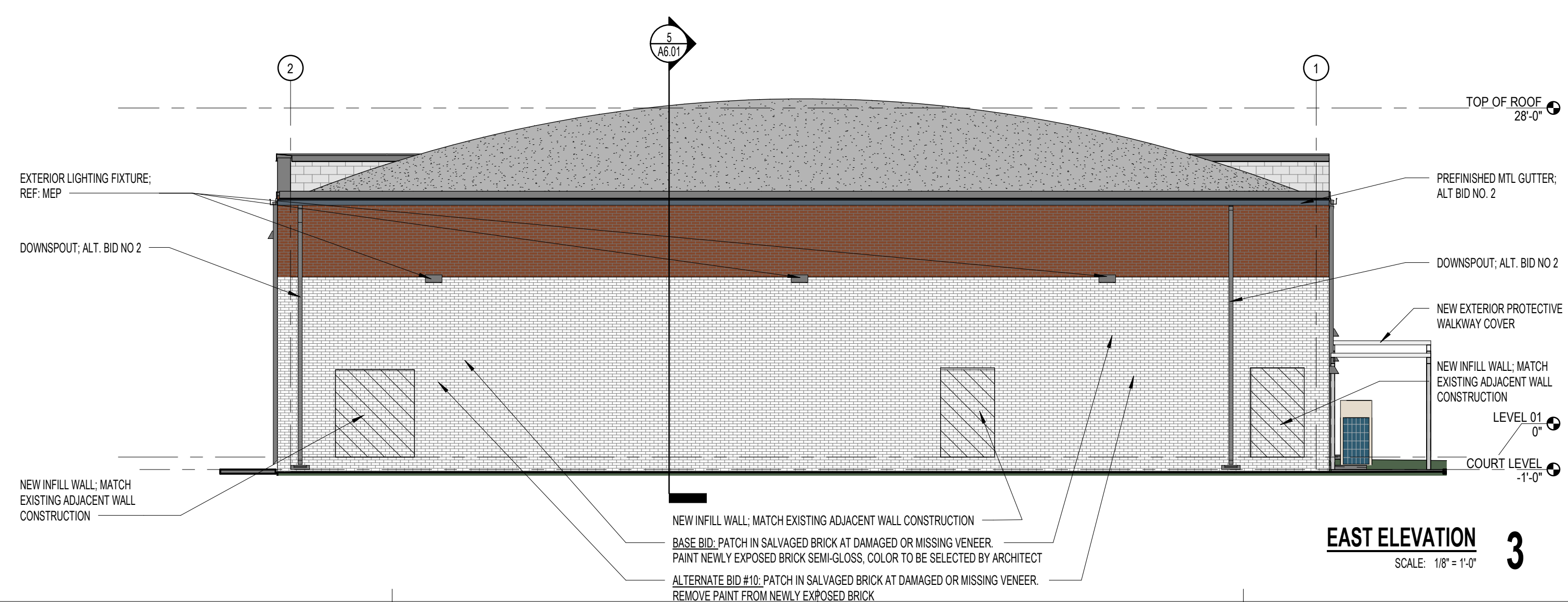
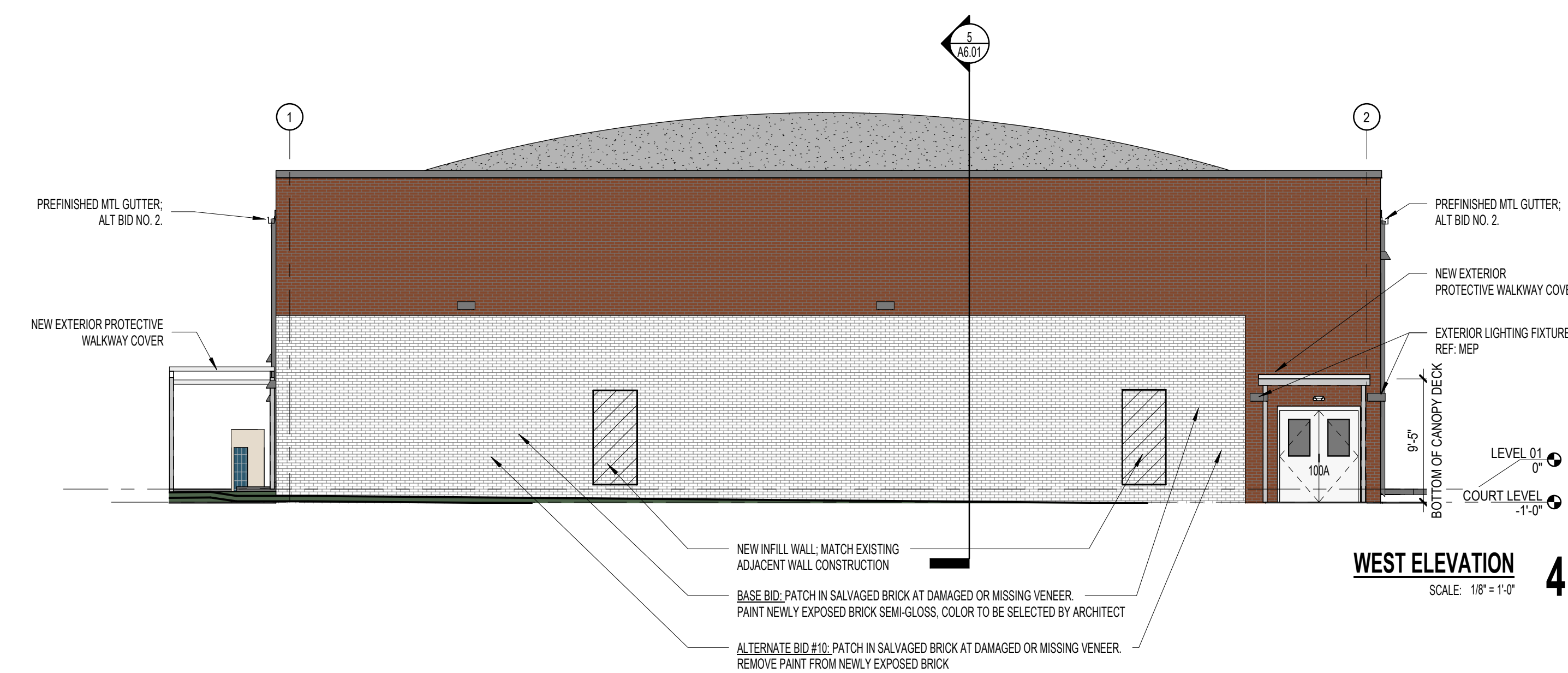
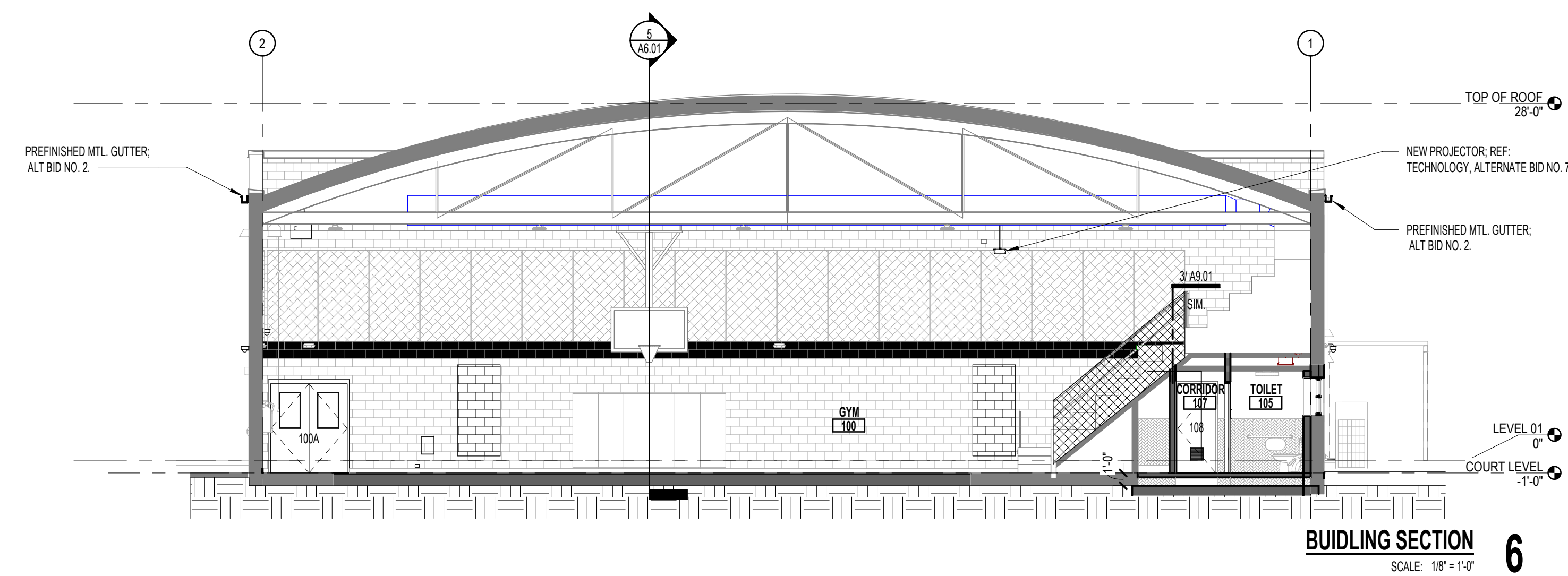
PROJECT NO. 20-038
DATE: 04/05/2021
DRAWN BY: DRW CHECKED BY: JMM
REVISIONS:

△	Date	Description
---	------	-------------

BID SET
A5.01
ROOF PLAN

pfluger

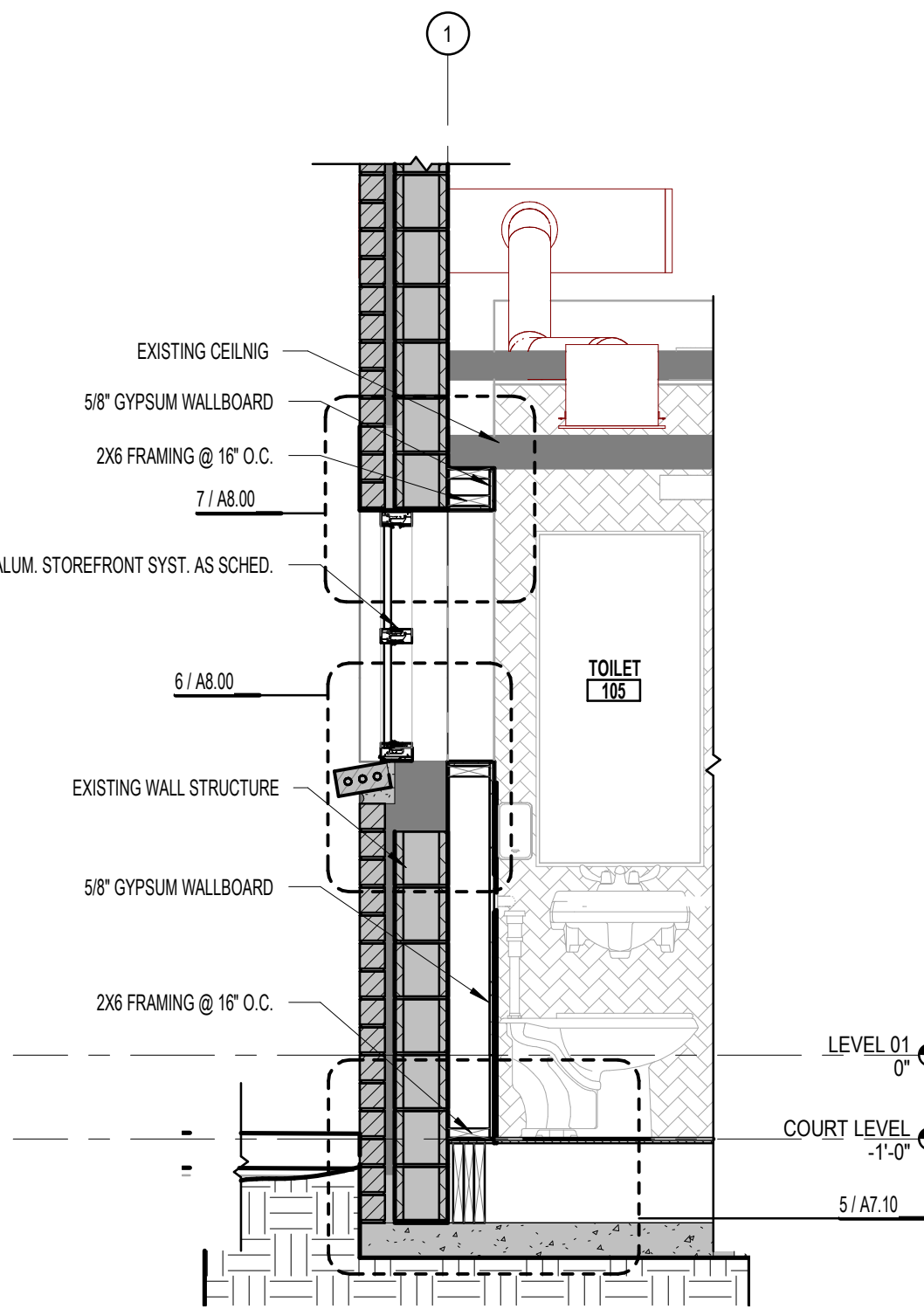
office: 512.476.4040 | fax: 512.476.4289
209 E. Riverside Drive Austin, Texas 78704
pflugerarchitects.com



EXTERIOR MATERIAL LEGEND

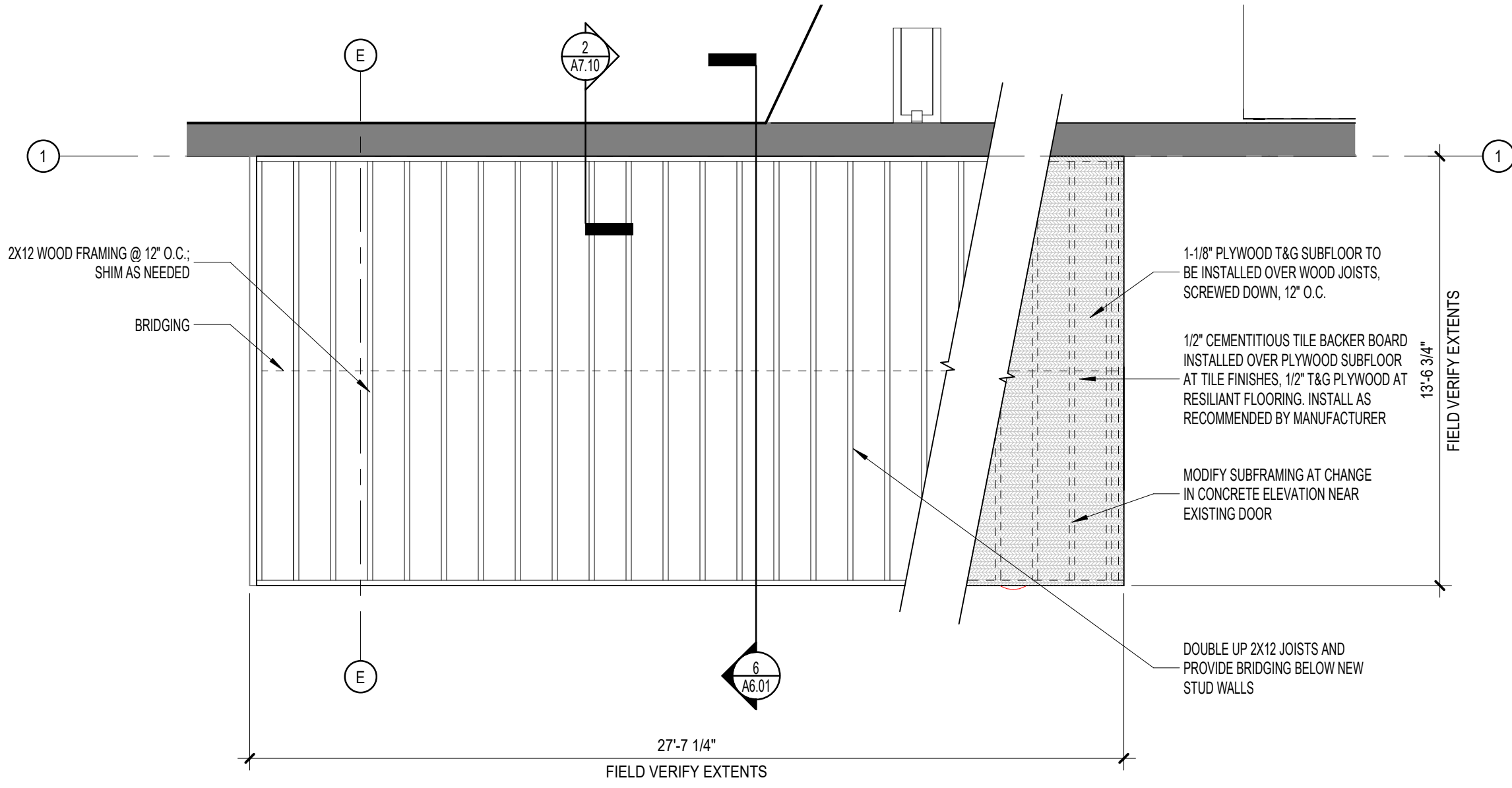
	NEWLY INSTALLED BRICK SALVAGED FROM DEMOLISHED BUILDING
	EXISTING BRICK
	EXISTING CONCRETE MASONRY UNIT
	NEW CONCRETE MASONRY UNIT
	MODIFIED BITUMINOUS ROOFING
	REPAIR/REPLACE EXISTING BRICK IN LOCATIONS INDICATED AS A RESULT OF DEMOLITION





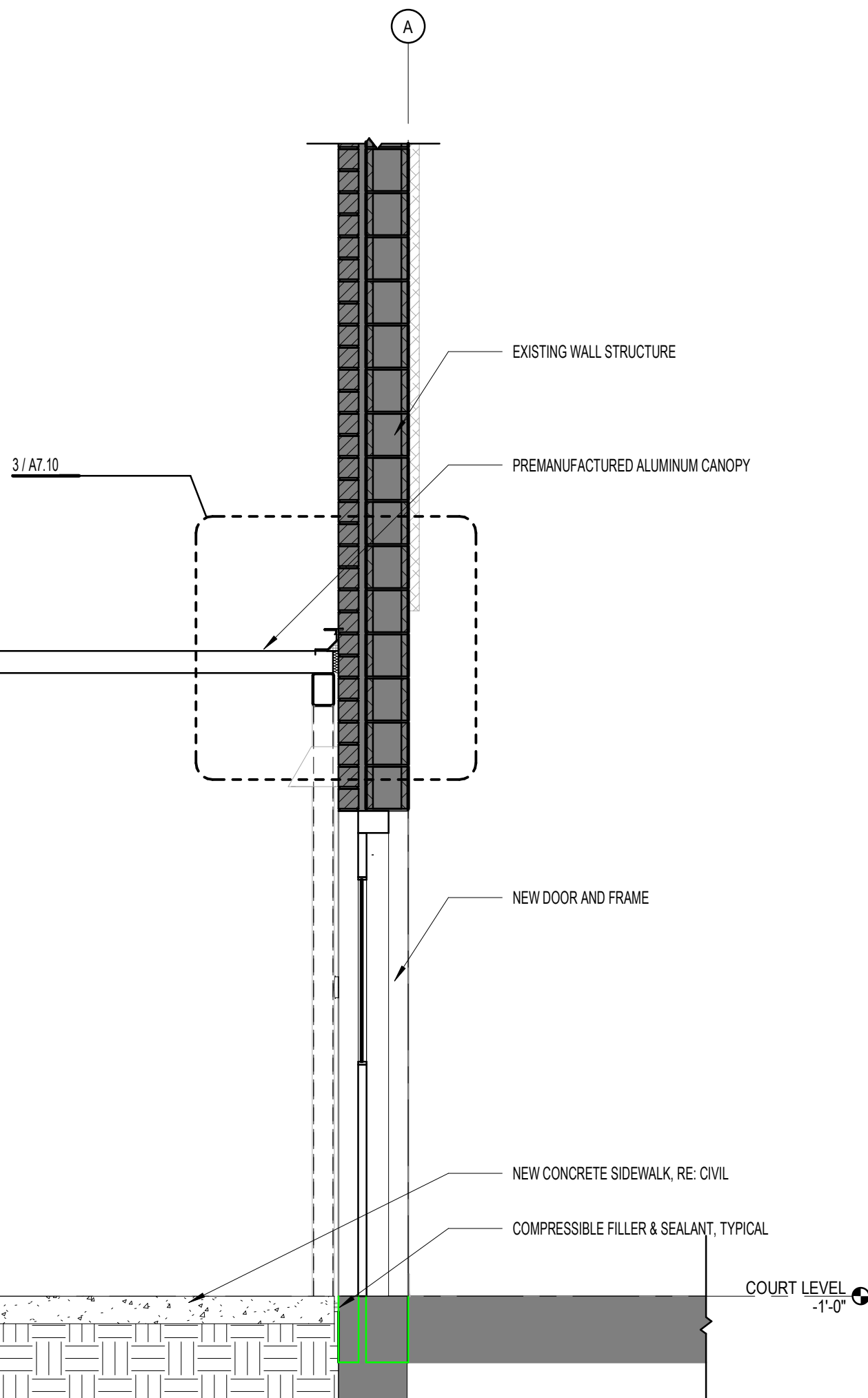
WALL SECTION
SCALE: 1/2" = 1'-0"

2



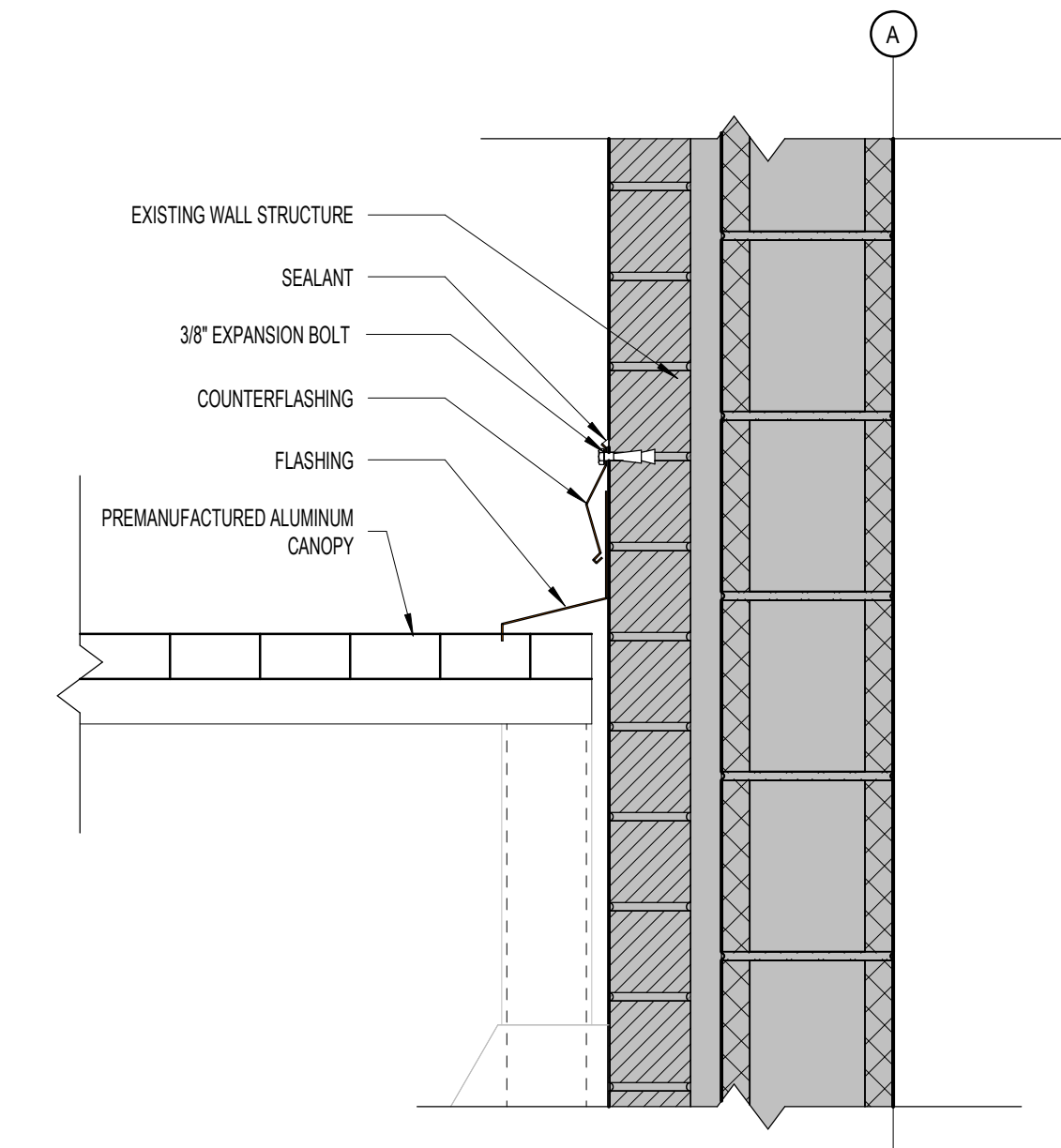
WOOD FLOOR FRAMING PLANS AT ROOMS 104, 105, 106, 107 & 108
SCALE: 1/4" = 1'-0"

4



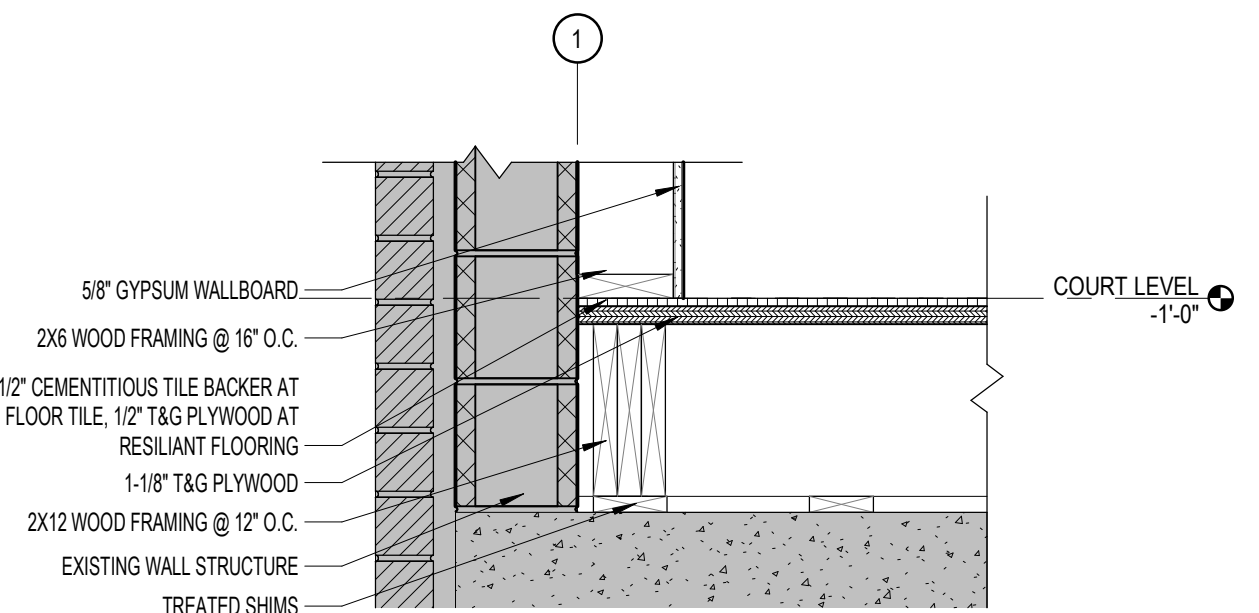
WALL SECTION
SCALE: 1/2" = 1'-0"

1



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

3



SECTION DETAIL
SCALE: 1" = 1'-0"

5

HUTTO ISD

HUTTO ISD GYM RENOVATION

200 COLLEGE STREET
HUTTO, TEXAS 78634

302 COLLEGE STREET HUTTO, TX 78634



DATE: 04/05/2021

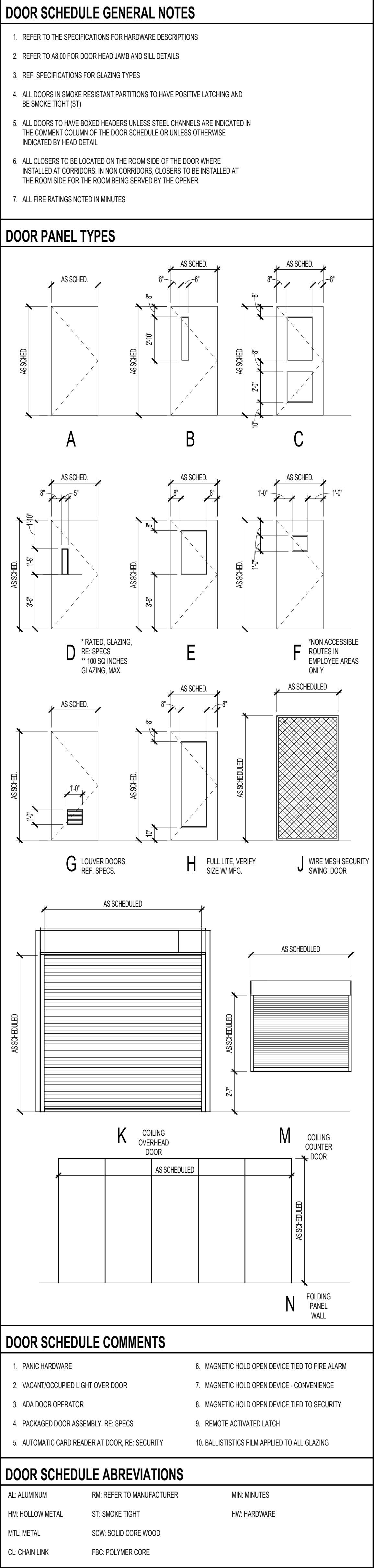
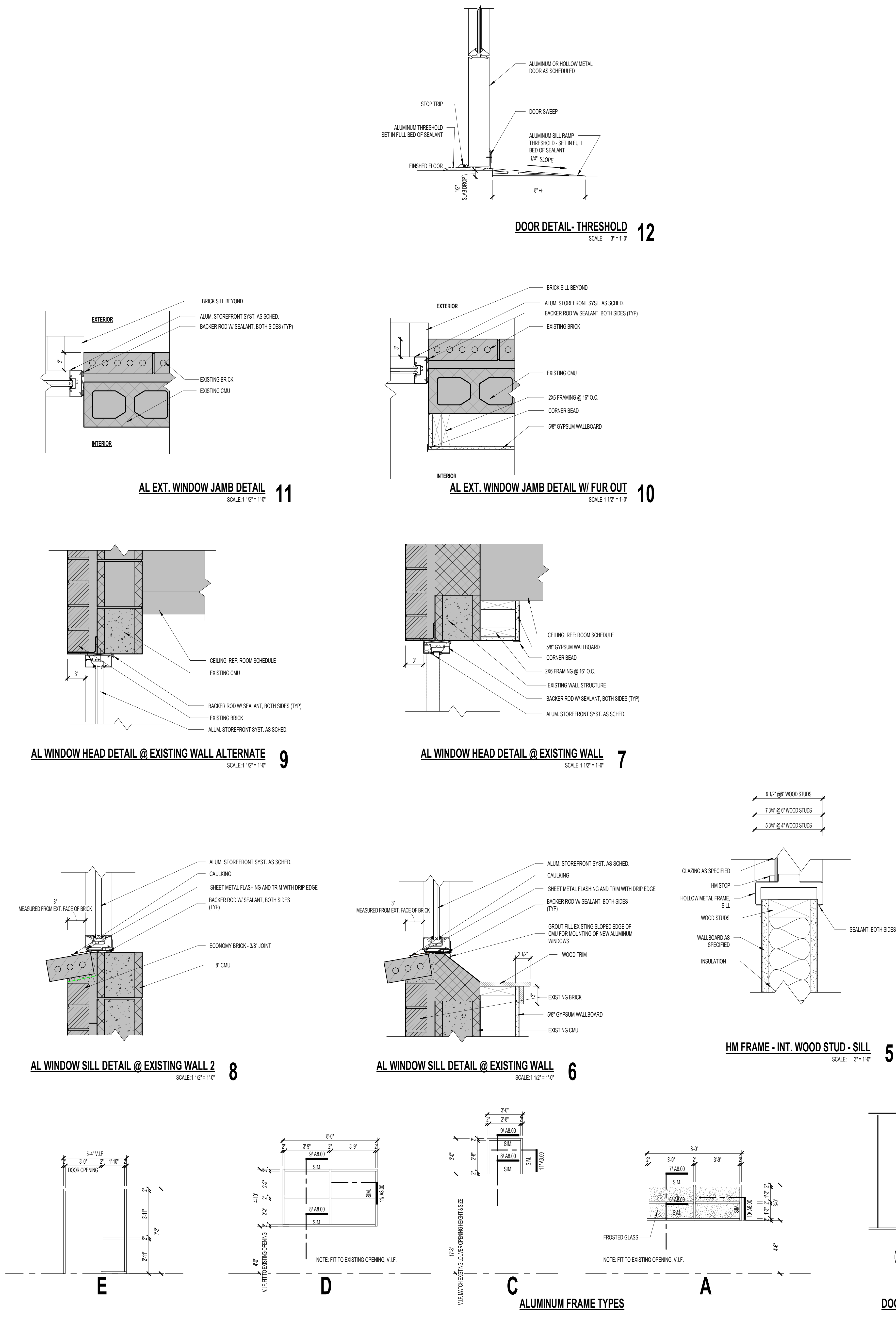
PROJECT NO. 20-038
DATE: 04/05/2021
DRAWN BY: DRW CHECKED BY: CHK
REVISIONS:
Date Description

BID SET
A7.10
WALL SECTIONS

pfluger

office: 512.476.4040 | fax: 512.476.4289
209 E. Riverside Drive Austin, Texas 78704

pflugarchitects.com



GENERAL NOTES

BASED ON ASI MODULEX ARCHITECTURAL SIGNAGE SOLUTIONS
WWW.ASIMODULEX.COM
1-800-874-7728

"INTOUCH" ADA READY 1/8" THICK CLEAR ACRYLIC SIGN FACE IN COLOR ON BLACK
FONT STYLE TO BE "SANS SERIF"
BACKGROUND COLOR TO BE DETERMINED AT A LATER DATE.
RAISED COPY TO BE WHITE.

ARCHITECT TO COORDINATE WITH OWNER FINAL NAMES AND NUMBERS FOR EACH ROOM.
SIGNAGE AT EXTERIOR WALLS ARE DESIGNATED WITH "A" AFTER SIGNAGE TYPE.

ADA SIGNAGE

1" TEXT

5/8" TEXT COMPLY WITH TAS, TYP

UPDATABLE WINDOW FOR INSERT PROVIDED BY OWNER

100 CLASSROOM

STAFF NAME

1" TEXT

5/8" TEXT COMPLY WITH TAS, TYP

100 CONFERENCE

1" TEXT

5/8" TEXT COMPLY WITH TAS, TYP

100 COUNSELING CENTER

SIGN TYPE "B" WHERE TEXT IS TOO LONG FOR SINGLE LINE

5/8" TEXT

100 RESTROOM

5/8" TEXT COMPLY WITH TAS, TYP

1" TEXT

100 WOMEN

5/8" TEXT COMPLY WITH TAS, TYP

1" TEXT

100 MEN

5/8" TEXT

5/8" TEXT

300 BAND HALL

300F REHEARSAL

SIGN TYPE "F" WHERE THERE ARE MULTIPLE ROOMS PER SIGN

5/8" TEXT

5/8" TEXT

100 JANITOR

NOTE: COMPLY WITH TEXAS ACCESSIBILITY STANDARDS (TAS) FOR SIGN DESIGN, MOUNTING HEIGHTS AND LOCATIONS.

INTERIOR SIGNAGE SCHEDULE

QUANTITY	TYPE	SIZE
0	A	8" X 8"
3	B	8" X 3" 8" X 4"
2	C	8" X 9"
0	D1	8" X 9"
0	D2	8" X 9"
0	F	8" X 6"

ARCHITECT TO COORDINATE WITH OWNER FINAL NAMES AND NUMBERS FOR EACH ROOM.
*TYPES A, B & F INCLUDE 3 EXTRA SIGNS TO USE IF NECESSARY.

AT LARGE OPENINGS IN GUARDRAIL CAUSED BY THE BLEACHER RISERS, CONTRACTOR MAY USE A DIAGONAL WOOD TRIM BOARD, LIKE A STRINGER TO CLOSE THE GAP AND PROVIDE A CONSISTANT ANGLED EDGE. NOTE THAT TRIM BOARD SHALL BE FINISHED TO MATCH EXISTING BLEACHERS.

REPLACE ALL SCREENS LOCATED IN FACE OF BLEACHERS WITH 1"x2"x11 GAUGE WELDED WIRE MESH. FASTEN MESH TO BACK OF BLEACHER OPENINGS AND PAINT MESH. CONTRACTOR TO FIELD VERIFY SIZES, LOCATIONS, AND QUANTITIES OF NEW SCREENS.

INTERIOR ELEVATION - RR 105 WEST
O.H. @ ROOM 105
SCALE: 3/8" = 1'-0"

INTERIOR ELEVATION - RR 105 EAST
O.H. @ ROOM 108
SCALE: 3/8" = 1'-0"

INTERIOR ELEVATION - RR 106
SCALE: 3/8" = 1'-0"

INTERIOR ELEVATION - RR 105
SCALE: 3/8" = 1'-0"

ENLARGED FINISH PLAN
SCALE: 3/8" = 1'-0"

FINISH PLAN - LEVEL 01
SCALE: 1/8" = 1'-0"

FINISH PLAN - LEVEL 01
SCALE: 1/8" = 1'-0"

FINISH SCHEDULE						
NUMBER	NAME	WALL FINISH	FLOOR	BASE	CEILING	COMMENTS
LEVEL 01						
100	GYM	P-1, P-2, P-3	CONC & WD	EXISTING	EXP-2	1, 2, 3, 6, 7
101	STORAGE	EXISTING	EXISTING	EXISTING	EXISTING	
102	STORAGE	EXISTING	EXISTING	EXISTING	EXISTING	
103	MECHANICAL ROOM	EXISTING	EXISTING	EXISTING	EXISTING	
104	MDF	T&F	VCT	RB	EPK	5
105	TOILET	T-2/EPK-1	T-1	TB	EPK	2
106	TOILET	T-2/EPK-1	T-1	TB	EPK	2
107	CORRIDOR	P-1	T-1	TB	P	
108	JANITOR	T&F	T-1	RB	P	

1. ALTERNATE BID #8: SAND, STAIN, AND SEAL EXISTING WOOD BLEACHERS, CEILINGS BELOW BLEACHERS, AND WOOD PANELING ON BLEACHER SIDES

FINISH SCHEDULE LEGEND

FLOORING

F1 FLOOR TILE
CONC CONCRETE FINISH W SEALER
VCT RESILIENT FLOORING, RE: SPECS
WD WOOD FLOORING

BASE

TB TILE BASE
RB RUBBER BASE

WALL FINISHES

T-2 WALL TILE
P-1 WHITE PAINT
P-2 BLACK PAINT
P-3 ORANGE PAINT
EPK-1 WHITE EPOXY PAINT
TF TAPE & FLOAT WALLS ONLY - NO PAINT

CEILING SYSTEMS

EPK EPOXY PAINT EXISTING WOOD CEILING
EXP-2 EXPOSED STRUCTURE, NO NEW FINISHING
P PAINT EXISTING WOOD CEILING

FINISH SCHEDULE NOTES

1. REFER TO INTERIOR ELEVATIONS FOR LOCATION, SIZES & TYPES OF INTERIOR FINISHES.
2. PROVIDE FLOOR OR WALL PATTERNS. REFER TO INTERIOR PLANS (A0.0 & A0.1) FOR DESIGN DETAILS.
3. ALTERNATE BID#4: PROVIDE ACOUSTIC PANELS. REFER TO INTERIOR ELEVATIONS FOR SIZES & TYPES.
4. REFER TO REFLECTED CEILING PLAN (A10 SERIES DWGS) FOR PAINTED GYP, BD, AND/OR SPECIALTY PORTIONS OF CEILING.
5. AT MDF ROOMS, PROVIDE 7'-0", 3/4" PLYWOOD ON ALL WALL SURFACES. PAINT SIDES AND EDGES BLACK.
6. ALTERNATE BID#5: REPAIR AND REFINISH EXISTING WOOD GYM FLOOR.
7. PRIME AND PAINT NEW STEEL SHOW IN STRUCTURAL DRAWINGS TO MATCH EXISTING EXPOSED STEEL FRAMING.

GENERAL NOTES

A. REFER TO REFLECTED CEILING PLAN (A10 SERIES DWGS) FOR CEILING HEIGHTS & ADDITIONAL INFORMATION.
B. ALL FINISHES SUBJECT TO ARCHITECT'S APPROVAL.

INTERIOR ELEVATION GENERAL NOTES

1. ARCHITECT TO SELECT COLORS. CONTRACTOR TO COORDINATE LEAD TIMES FOR ALL MATERIALS TO MAINTAIN PROJECT SCHEDULE.
2. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATING MILLWORK TO ASSURE PROPER FIT W/ AS-BUILT CONDITIONS.
3. PROVIDE CONTROL JOINTS AS SHOWN AND SPECIFIED.
4. REFERENCE WINDOW AND DOOR TYPES AS SPECIFIED FOR EXACT DIMENSIONS AND TYPES OF EACH ITEM.
5. REFERENCE BUILDING SECTIONS FOR ADDITIONAL INFORMATION.
6. REFER TO A2.01 FOR SIZES & LOCATIONS OF GRAB BARS & OTHER TOILET ACCESSORIES.
7. REFER TO A0.1 & A0.2 FOR REQUIRED MOUNTING HEIGHTS PER T.A.S.

MATERIAL FINISH LEGEND

SEALED CONCRETE

VCT

GYMNASIUM WOOD FLOORING

FLOOR TILE

PROVIDE CONTROL JOINTS (C.J.) AS SHOWN & AT COLOR CHANGES. WHERE CONTROL JOINTS ARE NOT SHOWN, REFER TO STRUCTURAL DWGS.

SYMBOLS

SB SIGN - TYPE B
CJ CONTROL JOINT*
SC SIGN - TYPE C

ROOM 100
POOR (P) (SAP-1)
CEILING FINISH
WALL FINISH
FLOOR FINISH

*PROVIDE CONTROL JOINTS AS SHOWN. WHERE CONTROL JOINTS ARE NOT SHOWN, REFER TO STRUCTURAL DWGS. REFER TO STRUCTURAL DWGS FOR DIMENSIONS, AT COLOR TRANSITIONS, PROVIDE SCORE LINE (V.O.).
**REFER TO ROOM FINISH SCHEDULE FOR FULL LIST OF FINISH WITHIN ROOM.

FLOOR TRANSITIONS

ET-5 MARBLE THRESHOLD, RE: SPECS

pfluger

office: 512.476.4040 | fax: 512.476.4280
209 E. Riverside Drive Austin, Texas 78704
pflugerarchitects.com

HUTTO ISD GYM RENOVATION

302 COLLEGE STREET HUTTO, TX 78634

HUTTO ISD

200 COLLEGE STREET
HUTTO, TEXAS 78634

REGISTERED ARCHITECT
JAMES MOORE
STATE OF TEXAS
19850

DATE: 04/05/2021

PROJECT NO. 20-038
DATE: 04/05/2021
DRAWN BY: KD
CHECKED BY: JMM
REVISIONS:
Date Description

BID SET
A9.00
INTERIOR FINISH PLAN
& SCHEDULE

Page 38 of 103

FINISH SCHEDULE LEGEND

<u>FLOORING</u>	
T-1	FLOOR TILE
CONC	CONCRETE FINISH W/ SEALER
VCT	RESILIENT FLOORING, RE: SPECS
WD	WOOD FLOORING
<u>BASE</u>	
TB	TILE BASE
RB	RUBBER BASE
<u>WALL FINISHES</u>	
T-2	WALL TILE
P-1	WHITE PAINT
P-2	BLACK PAINT
P-3	ORANGE PAINT
EPX-1	WHITE EPOXY PAINT
TF	TAPE & FLOAT WALLS ONLY - NO PAINT
<u>CEILING SYSTEMS</u>	
EPX	EPOXY PAINT EXISTING WOOD CEILING
EXP-2	EXPOSED STRUCTURE, NO NEW FINISH
P	PAINT EXISTING WOOD CEILING

FINISH SCHEDULE NOTES

1. REFER TO INTERIOR ELEVATIONS FOR LOCATION, SIZES & TYPES OF INTERIOR FINISHES.
2. PROVIDE FLOOR OR WALL PATTERNS. REFER TO INTERIOR PLANS (A6.0 & A6.1) FOR DESIGN DETAILS.
3. ALTERNATE BID#4: PROVIDE ACQUISTIC PANELS. REFER TO INTERIOR ELEVATIONS FOR SIZES & TYPES.
4. REFER TO REFLECTED CEILING PLAN (A10 SERIES DWGS) FOR PAINTED GYP. BD. AND/OR SPECIALTY PORTIONS OF CEILING
5. AT MOF ROOMS, PROVIDE 7'-0" x 34" PLYWOOD ON ALL WALL SURFACES. PAINT SIDES AND EDGES BLACK
6. ALTERNATE BID#3: REPAIR AND REFINISH EXISTING WOOD GYM FLOOR
7. PRIME AND PAINT NEW STEEL SHOW IN STRUCTURAL DRAWINGS TO MATCH EXISTING EXPOSED STEEL FRAMING

GENERAL NOTES

- A. REFER TO REFLECTED CEILING PLAN (A10 SERIES DWG) FOR HEIGHTS & ADDITIONAL INFORMATION.
- B. ALL FINISHES SUBJECT TO ARCHITECT'S APPROVAL.

INTERIOR ELEVATION GENERAL NOTES

1. ARCHITECT TO SELECT COLORS. CONTRACTOR TO COORDINATE LEAD TIMES FOR ALL MATERIALS TO MAINTAIN PROJECT SCHEDULE
2. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATING MILLWORK TO ASSURE PROPER FIT W/ AS-BUILT CONDITIONS
3. PROVIDE CONTROL JOINTS AS SHOWN AND SPECIFIED
4. REFERENCE WINDOW AND DOOR TYPES AS SPECIFIED FOR EXACT DIMENSIONS AND TYPES OF EXCHITEM
5. REFERENCE BUILDING SECTIONS FOR ADDITIONAL INFORMATION
6. REFER TO **A2.01** FOR SIZES & LOCATIONS OF GRAB BARS & OTHER TOILET ACCESSORIES
7. REFER TO **A0.1** & **A0.2** FOR REQUIRED MOUNTING HEIGHTS PER T.A.S

MATERIAL FINISH LEGEND

	SEALED CONCRETE		VCT
	GYMNASIUM WOOD FLOORING		FLOOR TILE

PROVIDE CONTROL JOINTS (C.J.) AS SHOWN & AT COLOR CHANGES. WHERE
CONTROL JOINTS ARE NOT SHOWN, REFER TO STRUCTURAL DWGS

SYMBOLS

SB	SIGN - TYPE B
CJ	CONTROL JOINT
SC	SIGN - TYPE C

```

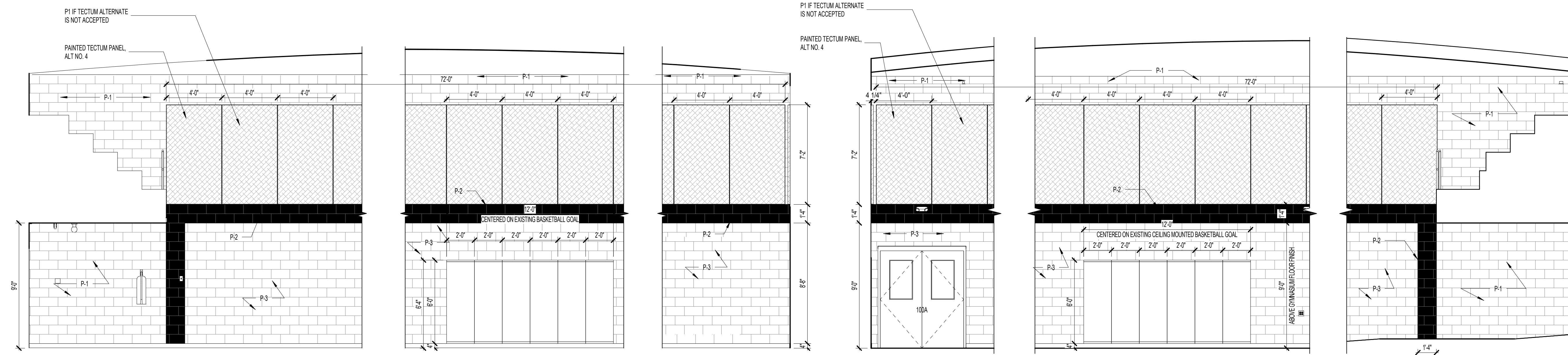
graph LR
    Room[ROOM 100] --- PCON[PCON | P | SAP-1]
    PCON --- Ceiling[CEILING FINISH]
    PCON --- Wall[WALL FINISH]
    PCON --- Floor[FLOOR FINISH]
  
```

* PROVIDE CONTROL JOINTS AS SHOWN. WHERE CONTROL JOINTS ARE NOT SHOWN, REFER TO STRUCTURAL DWGS. REFER TO STRUCTURAL DWGS FOR DIMENSIONS. AT COLOR TRANSITIONS, PROVIDE SCORE LINE U.N.O.

** REFER TO ROOM FINISH SCHEDULE FOR FULL LIST OF FINISH WITHIN ROOM

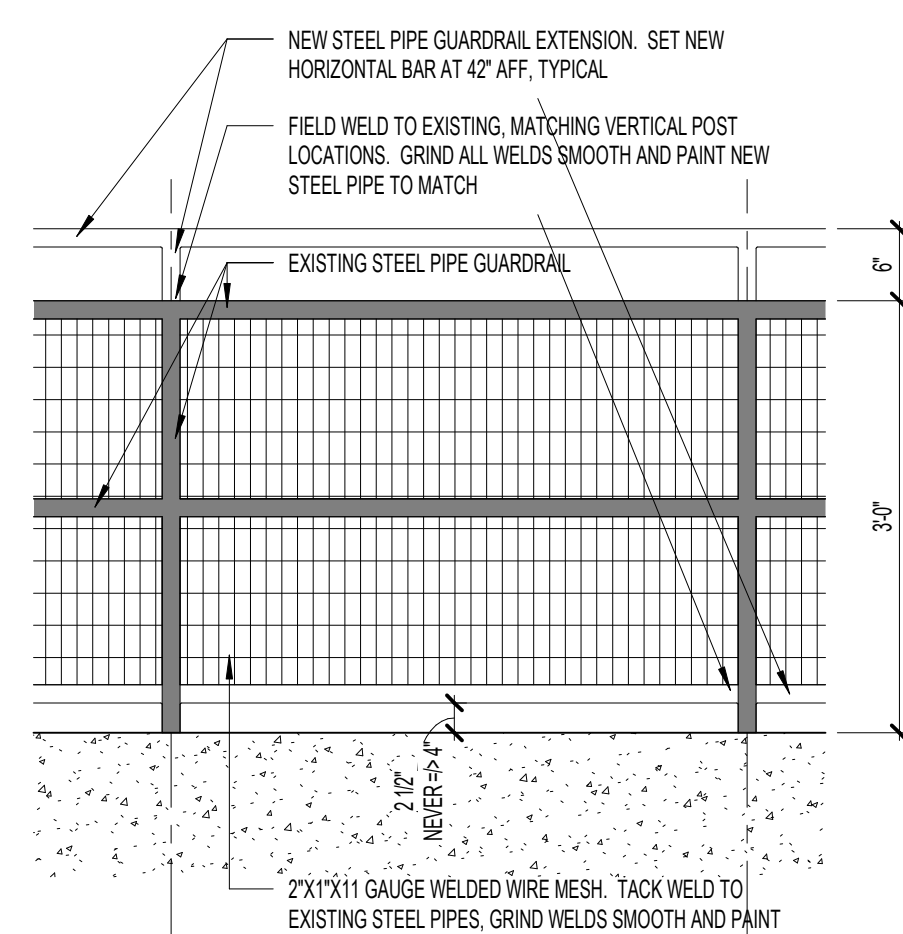
FLOOR TRANSITIONS

FT-5 MARBLE THRESHOLD, RE: SPECS

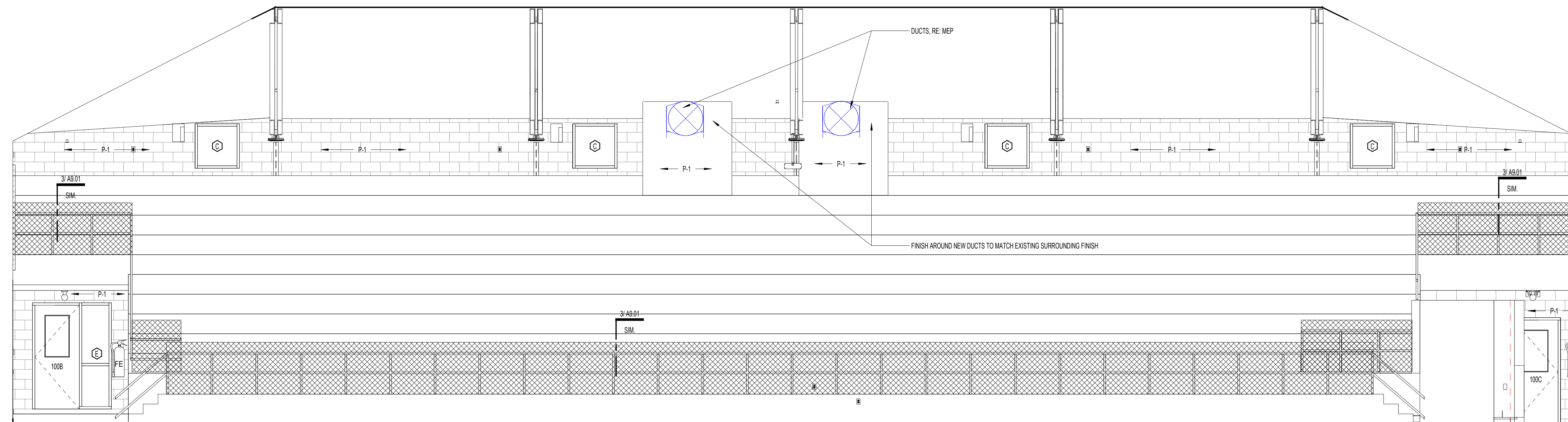


INTERIOR ELEVATION - GYM NORTH
SCALE: 1/4" = 1'-0"

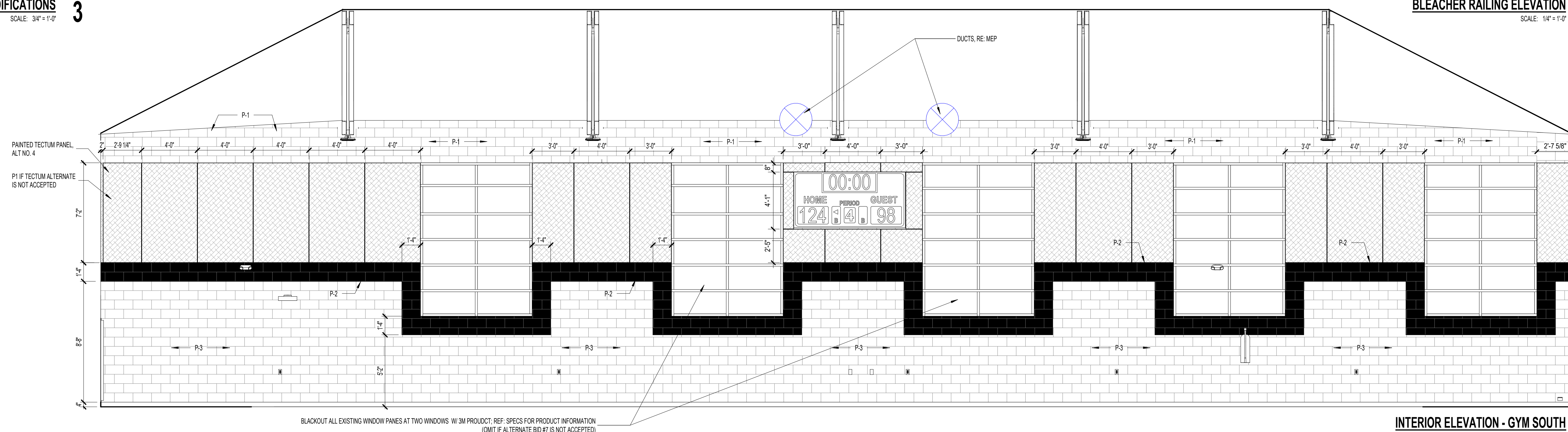
INTERIOR ELEVATION - GYM WEST
SCALE: 1/4" = 1'-0"



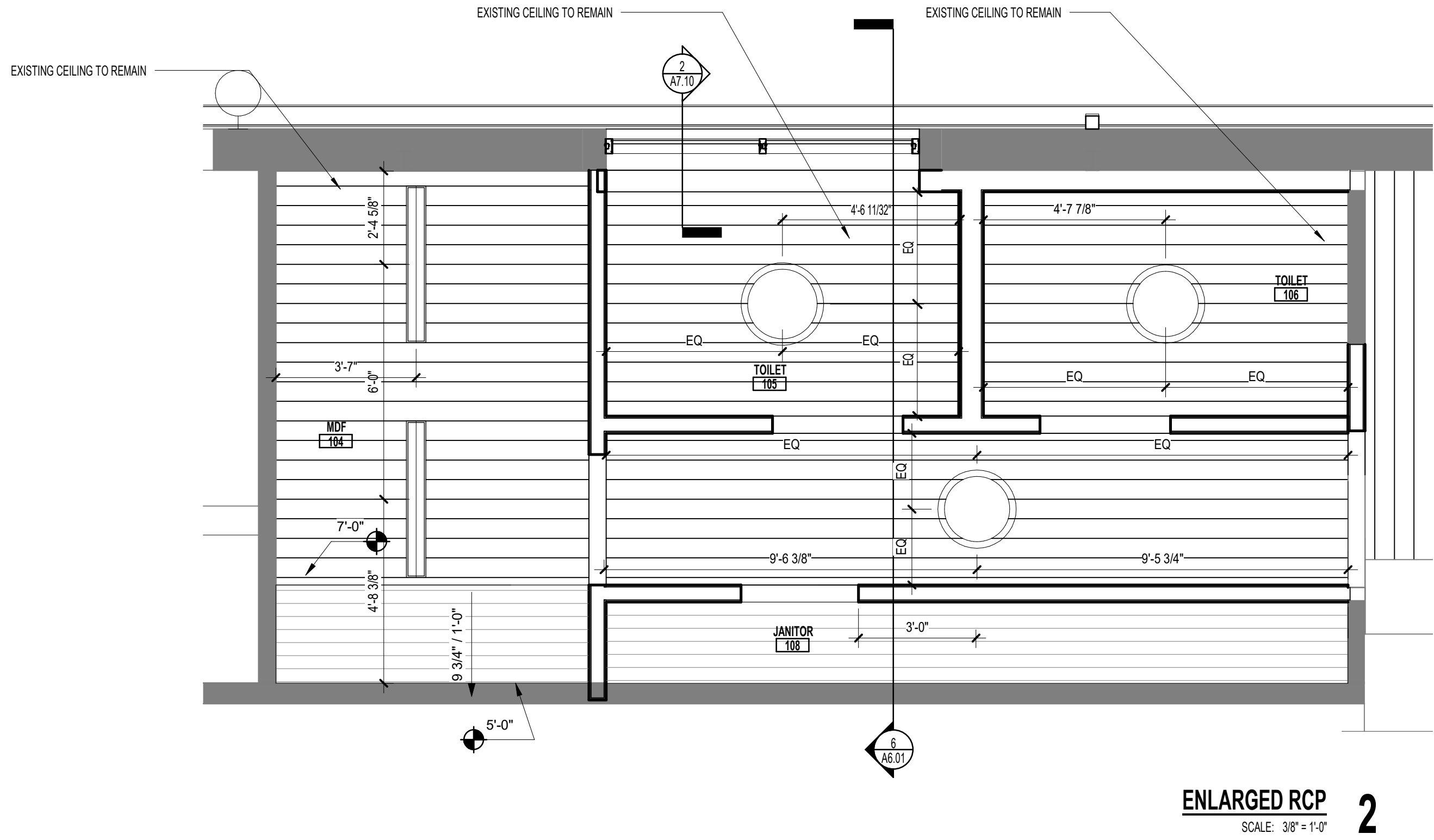
GUARDRAIL MODIFICATIONS
SCALE: 3/4" = 1'-0"



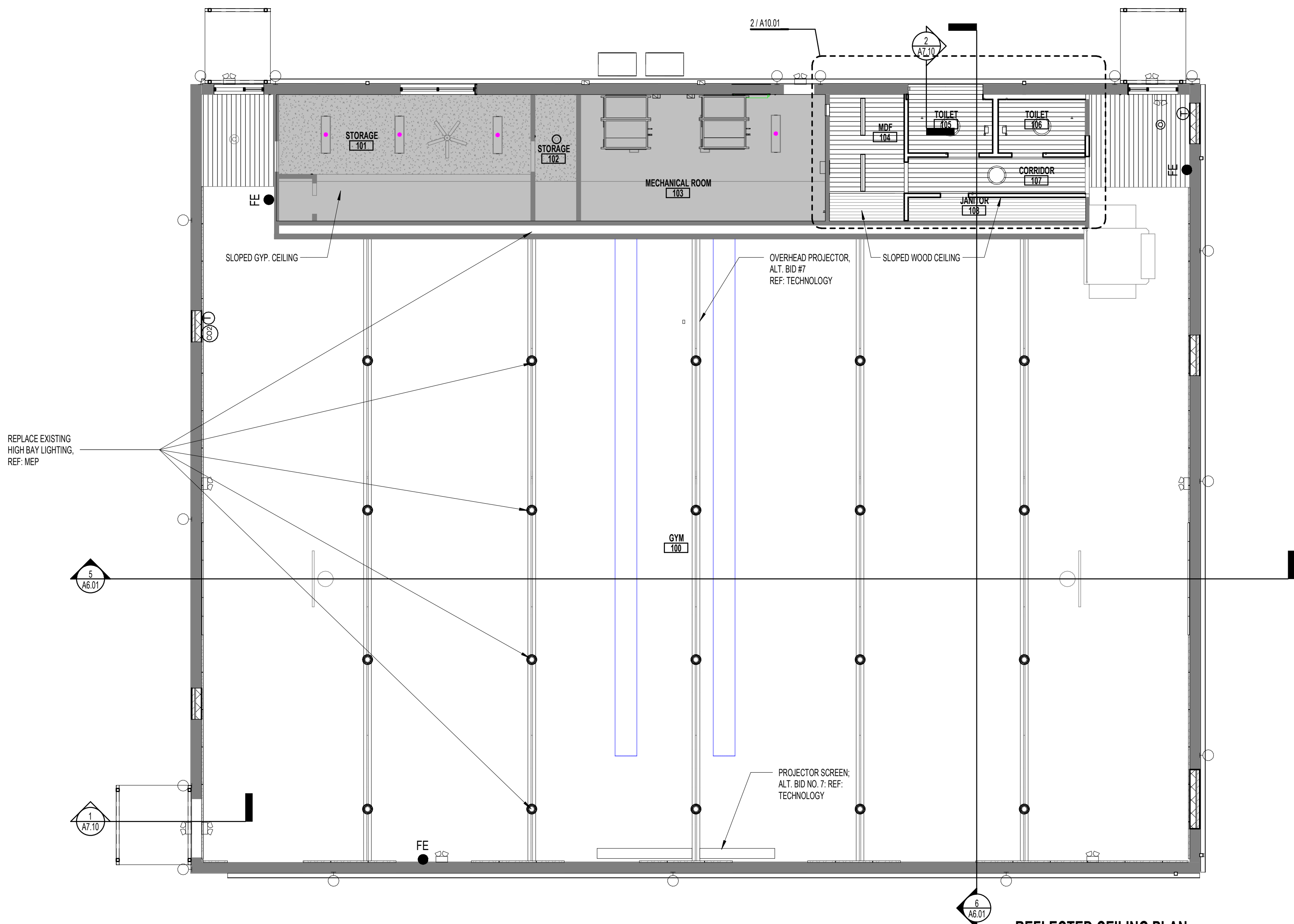
BLEACHER RAILING ELEVATION SCALE: 1/4" = 1'-0"



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



REFLECTED CEILING PLAN 1
SCALE: 1/8" = 1'-0"



REFLECTED CEILING PLAN LEGEND

- LINEAR LED FIXTURE (SURFACE MOUNTED)
- SURFACE MOUNTED CAN LIGHT FIXTURE
- WALL SCONCE
- CEILING FAN
- SUPPLY AIR GRILLE
- RETURN AIR GRILLE
- EXISTING PAINTED OR STAINED WOOD CEILING
- EXPOSED STRUCTURE

GENERAL NOTES:

1. REFER TO INTERIOR AND EXTERIOR ELEVATIONS FOR LIGHT FIXTURE MOUNTING HEIGHTS.
2. AT AREAS WHERE CEILING IS EXPOSED - EXPOSED CONDUIT TO BE LOCATED NEATLY. ARCHITECT TO APPROVE LAYOUTS.
3. COORDINATE CEILING ACCESS PANELS WITH MEP CONTRACTOR. LOCATE WHERE NECESSARY.
4. REFER TO A8.00 FOR MORE INFO ON SIGNAGE TYPES.

HUTTO ISD

HUTTO ISD GYM RENOVATION

200 COLLEGE STREET
HUTTO, TEXAS 78634



DATE: 04/05/2021

PROJECT NO. 20-038
DATE: 04/05/2021
DRAWN BY: KD CHECKED BY: JMM
REVISIONS:

Date	Description
------	-------------

BID SET

A10.01
REFLECTED CEILING
PLAN

pfluger

office: 512.476.4040 | fax: 512.476.4280
209 E. Riverside Drive Austin, Texas 78704

pflugerarchitects.com

M/P ABBREVIATION SCHEDULE		
AD	ACCESS DOOR	MAINT
ABV	ABOVE	MAU
AFF	ABOVE FINISHED FLOOR	MAX
ARCH	ARCHITECT	MC
AUTO	AUTOMATIC	MEH
AUX	AUXILIARY	MECH
AHU	AIR HANDLING UNIT	MH
BD	BALANCE DAMPER	MIN
BFF	BELOW FINISHED FLOOR	MISC
BLDG	BUILDING	MTD
BOD	BOTTOM OF DUCT	MOD
BOP	BOTTOM OF PIPE	NIC
BF	BOOSTER FAN	N.O.
CLG	CEILING	N.C.
CLR	CLEAR/CLEARANCE	N.O.
CO	CLEANOUT	NTS
COL	COLUMN	O/A
CONC	CONCRETE	QBD
CONTR	CONTRACTOR	OC
CW	COLD WATER	OPNG
CONN	CONNECTION	ORL
CU	CONDENSING UNIT	OAH
CJ	COPPER	PC
CHS	CHILLED WATER SUPPLY	PH
CHR	CHILLED WATER RETURN	PLBG
DIA	DIAMETER	R/A
DN	DOWN	RE
DWG	DRAWING	REFRIG
DH	DUCT HEATER	RE
E/A	EXHAUST AIR	REQD
EC	ELECTRICAL CONTRACTOR	RHP
EF	EXHAUST FAN	RL
ELEC	ELECTRIC/ELECTRICAL	RM
EQ	EQUAL	RTU
EQUIP	EQUIPMENT	S/A
EX	EXISTING	SCH
EXH	EXHAUST	SP
E.S.P.	EXTERNAL STATIC PRESSURE	SPEC
ERV	ENERGY RECOVERY VENTILATOR	SD
FCO	FLOOR CLEAN OUT	SF
FCU	FAN COIL UNIT	TSP
FF	FINISHED FLOOR	TYP
FLEX	FLEXIBLE	UON
FLR	FLOOR/FLOORING	UG
GA	GAUGE	UH
GC	GENERAL CONTRACTOR	V
GEN	GENERAL	V
GYP	GYPSON BOARD	V
HB	HOSE BIBB/WALL HYDRANT	VTR
HP	HEAT PUMP	W
Hp	HORSEPOWER	W/O
HT	HEIGHT	WP
HW	HOT WATER	WT
HWC	HOT WATER CIRC	WTR
HR	HOUR	WM
HWR	HEATING WATER RETURN	WCO
HWS	HEATING WATER SUPPLY	WH
LOC	LOCATION	

PLUMBING LEGEND		
SYMBOL	ABB.	DESCRIPTION
— — — — —	CW	COLD WATER PIPING
— — — — —	HW	HOT WATER PIPING
— — — — —	HWR	HOT WATER RETURN PIPING
— — — — —	WW	WASTE WATER
— — — — —		VENT PIPING
— — — — —	T	TEMPERED WATER
— — — — —	G	GAS PIPING
— — — — —	F	FIRE LINE
— — — — —	GT	GREASE TRAP LINE
— — — — —	A	COMPRESSED AIR PIPING
— — — — —	D	RELIEF OR CONDENSATE DRAIN PIPING
— — — — —	SD	STORM DRAIN
— — — — —	RL	RAIN LEADER
— — — — —	ORL	OVERFLOW RAIN LEADER
— — — — —		FULL PORT BALL PIPE ISOLATION VALVE
— — — — —	HB	HOSE BIBB/WALL HYDRANT
— — — — —	U	UNION
— — — — —	FD/FS	FLOOR DRAIN/FLOOR SINK
— — — — —	HD	HUB DRAIN
— — — — —	CO	CLEAN OUT
— — — — —		DOUBLE CLEAN OUT
— — — — —	WCO	WALL CLEAN OUT
— — — — —		GAS COCK
— — — — —		BALANCE VALVE
— — — — —		CHECK VALVE
— — — — —		POINT OF CONNECTION
— — — — —		GAS PRESSURE REGULATOR

PIPE SIZING REQUIREMENTS	
1.	ALL FLOOR DRAINS AND FLOOR SINKS MUST HAVE TRAP PRIMERS. PROVIDE INVERTED TEE CONNECTION FROM SINK TAILPIECE OR FLUSH VALVE TYPE TRAP PRIMER CONNECTION TO ALL FLOOR DRAINS, FLOOR SINKS AND HUB DRAINS. AS LAST RESORT PROVIDE MECHANICAL TYPE TRAP PRIMER (PPP INC. "OREGON #1" TYPE). CONNECT TO NEAREST WATER SERVING THAT AREA PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. IN JURISDICTIONS WHERE PRESSURE ACTIVATED MECHANICAL PRIMERS ARE NOT ALLOWED, USE ELECTRONIC TRAP PRIMERS. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR. PROSET "TRAP GUARD" DEVICE MAY BE USED IN LIEU OF TRAP PRIMERS WHEN ALLOWED BY LOCAL CODE AUTHORITY HAVING JURISDICTION. BEFORE USING PROSET "TRAP GUARD" CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM LOCAL CODE AUTHORITY HAVING JURISDICTION AND PROVIDE COPIES TO ARCHITECT AND ENGINEER.
2.	AT ALL PUBLIC LAVATORIES A HOT WATER MANIFOLD WILL BE ROUTED PARALLEL TO HOT WATER REGRIC MAIN DOWN FULL SIZE INTO ONE SIDE OF CHASE AND WILL BE CONNECTED BACK TO HOT WATER REGRIC MAIN OUT OF OPPOSITE SIDE OF CHASE TO COMPLY WITH INTERNATIONAL ENERGY CODE (IECC) MAXIMUM ALLOWABLE HOT WATER PIPING LENGTH FROM MANIFOLD. (TAP SIZE: FOR 3/8", PIPING MAXIMUM LENGTH = 3 FEET; FOR 1/2" MAXIMUM LENGTH = 2 FEET)
3.	PIPING SIZE FOR WATER MAIN DROPS AND MANIFOLD IN CHASE OR WALL TO REMAIN FULL SIZE OF DROP INDICATED. REFERENCE FIXTURE CONNECTION SCHEDULE FOR INDIVIDUAL LINE SIZE TO EACH FIXTURE.
4.	COORDINATE ALL WASTEWATER FLOOR PENETRATIONS AND PIPING PENETRATIONS WITH STRUCTURAL PRIOR TO INSTALLATION. PIPING MAY BE OFFSET SLIGHTLY TO AVOID STRUCTURAL CONFLICTS.
5.	ROUTE VENT FROM EACH FIXTURE TO HORIZONTAL VENT HEADER IN CHASE/WALL OR TO NEAREST COMMON VTR ABOVE CEILING. REFERENCE FIXTURE CONNECTION SCHEDULE FOR INDIVIDUAL FIXTURE VENT SIZES. VENT HEADERS IN CHASE TO BE SIZED ACCORDINGLY: 1 1/2" VENT UP TO 6 DRAIN FIXTURE UNITS MAXIMUM DEVELOPED LENGTH OF 60 FEET (EXCEPT FOR WATER CLOSETS); 2" VENT UP TO 20 DRAIN FIXTURE UNITS MAXIMUM DEVELOPED LENGTH OF 120 FEET; 3" VENT UP TO 84 DRAIN FIXTURE UNITS MAXIMUM DEVELOPED LENGTH OF 212 FEET AND 4" VENT UP TO 256 DRAIN FIXTURE UNITS MAXIMUM DEVELOPED LENGTH OF 300 FEET. BRANCH VENTS EXCEEDING 40 FEET IN DEVELOPED LENGTH ARE TO BE INCREASED BY ONE PIPE SIZE. NO MORE THAN 1/3 OF THE CODE PERMITTED DEVELOPED LENGTH SHALL BE IN HORIZONTAL POSITION. EXTEND COMMON VENT UP THROUGH ROOF.
6.	ROUTE ALL VENTS TO NEAREST COMMON VENT THRU ROOF (VTR) TO MINIMIZE ROOF PENETRATIONS. VTR TO BE MINIMUM 15 FEET AWAY FROM OUTSIDE AIR INTAKES. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.

FIXTURE CONNECTION SCHEDULE					
MARK	CW	HW	WASTE	DRAIN FIXTURE UNITS	VENT
WATER CLOSET (FLUSH VALVE)	1"	-	4"	6	2"
WATER CLOSET (TANK TYPE)	1 1/2"	-	4"	4	2"
URINAL	3/4"	-	2"	2	2"
PUBLIC LAVATORY	3/8"	3/8"	2"	1	1 1/2" * *
SINK	1/2"	1/2"	2"	2	1 1/2" * *
SERVICE SINK	3/4"	3/4"	3"	2	2"
WASH FOUNTAIN	1/2"	1/2"	2"	2	1 1/2" * *
EWIC	1/2"	-	2"	1	1 1/2" * *
WASHING MACHINE	3/4"	3/4"	2"	2	2"
HOSE BIBB	3/4"	-	-	-	-
SHOWER	1/2"	1/2"	3"	2	1 1/2"
FLOOR DRAIN	-	-	3"	2	2"
* HOT AND COLD WATER REQUIRED UNLESS NOTED OTHERWISE ON PLUMBING FIXTURE SCHEDULE. PROVIDE TEMPERATURE MIXING VALVE (ASSE 1070) AT THE FIXTURE.					
* * IF HORIZONTAL VENT LENGTH EXCEEDS 20 FEET, INCREASE VENT SIZE TO TWO INCHES.					
* * * COMMERCIAL KITCHEN SINKS GET HOT WATER, REMAINDER TO BE PROVIDED WITH TEMPERATURE MIXING VALVE (ASSE 1070) AT THE FIXTURE.					
* * * * SHOWER VALVES TO BE BALANCED-PRESSURE, THERMOSTATIC OR COMBINATION BALANCED-PRESSURE/THERMOSTATIC CONFORMING TO ASSE 1016.					

GENERAL NOTES	
A.	THE CONTRACTOR IS TO VISIT THE SITE PRIOR TO BID TO FAMILIARIZE HIMSELF WITH ALL CONDITIONS AS THEY EXIST. SUBMISSION OF BID INDICATES THE CONTRACTOR'S UNDERSTANDING OF EXISTING CONDITIONS AND HIS WILLINGNESS TO WORK WITH THESE CONDITIONS. NO ADDITIONAL TIME OR MONEY WILL BE ALLOTTED DUE TO LACK OF COORDINATION WITH EXISTING CONDITIONS OR OTHER TRADES.
B.	CONTRACTORS TO REVIEW AND COMPARE ALL DRAWINGS SO ALL WORK IN THEIR RESPECTIVE TRADE IS INCLUDED IN BID. EACH CONTRACTOR SHALL INCLUDE ALL MATERIALS AND INSTALLATION REQUIRED FOR HIS PARTICULAR TRADE AFTER COMPLETE REVIEW OF ALL CONTRACT DRAWINGS AND SPECIFICATIONS.
C.	ALL WORK SHALL COMPLY WITH THE APPLICABLE LOCAL, STATE AND FEDERAL CODES AND ORDINANCES. FOLLOW RECOMMENDED PRACTICES AS SET DOWN BY ASME, ASHRAE, NFPA, APPLICABLE BUILDING CODE, APPLICABLE MECHANICAL CODE, APPLICABLE PLUMBING CODE, APPLICABLE ENERGY CODE, NATIONAL ELECTRICAL CODE, AGA, ADA AND OSHA, AS THEY APPLY TO THIS PROJECT EXCEPT IN CASES WHERE LOCAL STATUTES GOVERN.
D.	THE CONTRACTOR SHALL VERIFY WITH AUTHORITY HAVING JURISDICTION THE LATEST ADOPTED LOCAL CODES, ORDINANCES AND AMENDMENTS THAT APPLY TO THIS PROJECT. PROVIDE CODE APPROVED CONDENSATE DISPOSAL POINT FOR ALL MECHANICAL EQUIPMENT TO DRAIN TO. COORDINATE WITH MECHANICAL CONTRACTOR.
E.	ABSOLUTELY NO PIPING OR DUCTWORK CAN BE ROUTED ABOVE ELECTRICAL PANELS, GEAR OR TRANSFORMERS. THE ONLY HVAC, PLUMBING, SPRINKLER OR DUCTWORK THAT CAN ENTER AN ELECTRIC ROOM ARE THOSE SPECIFICALLY SERVING THAT ROOM. THESE SERVICES CAN ONLY ENTER INTO ELECTRIC ROOM ABOVE ENTRY DOOR.
F.	PROVIDE VALVE TAGS FOR ALL VALVES. PROVIDE CEILING ACCESS MARKERS FOR VALVES LOCATED ABOVE CEILING OR BEHIND WALL MOUNTED PANEL.
G.	PLUMBING PIPING SHALL NOT BLOCK ACCESS TO EQUIPMENT, JUNCTION BOXES, DISCONNECTS, ACCESS DOORS, ETC.
H.	ALL VALVES ARE TO BE ACCESSIBLE AND SHALL NOT BE LOCATED MORE THAN FOUR FEET ABOVE THE CEILING.
I.	CONTRACTOR TO CONNECT COLD WATER, HOT/TEMPERED WATER, WASTE WATER AND VENT PIPING TO ALL FIXTURES PER MANUFACTURER'S RECOMMENDATIONS, UNLESS OTHERWISE NOTED ON DRAWINGS.
J.	BEFORE ANY CUTTING OR TRENCHING OPERATIONS BEGIN, VERIFY WITH OWNER'S REPRESENTATIVE, UTILITY COMPANIES AND OTHER INTERESTED PARTIES THAT ALL AVAILABLE INFORMATION HAS BEEN PROVIDED CONCERNING EXISTING UTILITY LOCATION. VERIFY LOCATIONS GIVEN. CONTACT ARCHITECT IMMEDIATELY UPON UNCOVERING UNKNOWN UTILITIES FOR FURTHER DIRECTION. INDICATE ALL UNCOVERED UTILITIES ON RECORD DRAWINGS.
K.	FIRE SEAL AROUND ALL PIPING AT PENETRATIONS THROUGH RATED WALLS, CEILINGS AND TUNNELS PER UL LISTED MATERIAL FOR ACTUAL SEALANT BEING USED. COORDINATE WITH ARCHITECTURAL PLANS FOR RATED WALL LOCATION.
L.	PROVIDE ALL APPROPRIATE TOOLS, WRENCHES, KEYS, ETC. AS REQUIRED FOR ACCESS AND OPERATION OF VALVES, COVERS, ETC.
M.	DO NOT ROUTE PIPING UNDER EQUIPMENT LOCATED ABOVE CEILING. ROUTE PIPING AROUND EQUIPMENT TO ALLOW FOR ACCESS AROUND EQUIPMENT AND FOR FUTURE REMOVAL OF EQUIPMENT.
N.	PROVIDE HEAT TRAPS ON INCOMING AND DISCHARGE LINES FROM WATER HEATERS WHICH DO NOT HAVE THEM FACTORY INSTALLED OR ARE NOT CONNECTED TO A RECIRCULATING SYSTEM.
O.	PROVIDE WATER HAMMER ARRESTORS WITH ACCESSIBLE ISOLATION VALVE ON COLD WATER AND HOT WATER SUPPLIES TO ALL PLUMBING FIXTURES. PROVIDE ACCESS DOOR FOR ALL CONCEALED ARRESTORS. WATER HAMMER ARRESTERS SHALL BE CERTIFIED BY THE PLUMBING AND DRAINAGE INSTITUTE (PDI) STANDARD WH-201. ARRESTORS ARE TO BE INSTALLED IN LOCATIONS AND SIZED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THE LATEST EDITION OF THE WATER HAMMER ARRESTERS STANDARD PDI WH 201. WHEN A BRANCH EXCEEDS 20' IN LENGTH THEN AN ADDITIONAL ARRESTOR IS REQUIRED. CONTRACTOR TO PROVIDE A PLAN SHOWING WATER HAMMERS LOCATIONS, SIZE AND FIXTURE UNIT COUNT ON EACH BRANCH LINE.
P.	GAS PIPING:
1.	CAP ALL EXISTING GAS PIPING FLUSH WITH THE WALL AS ALL GAS PIPING IS GOING TO BE ABANDONED. CONFIRM WITH ARCHITECT FOR FINAL CAPPING LOCATION.

PLUMBING FIXTURE SCHEDULE	
NOTES:	
1.	REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2.	ALL WALL HUNG FIXTURES TO BE INSTALLED WITH WALL CARRIERS, VERIFY CONFIGURATION TYPE.
3.	PROVIDE VANDAL RESISTANT SCREWS AT ALL FIXTURES.
4.	INSTALL STAINLESS STEEL CAPS AT ALL UNUSED LAVATORY FAUCET HOLES.
5.	NO OFFSET FLANGES WILL BE ALLOWED FOR WATER CLOSET INSTALLATIONS.
6.	GROUT FOR LEVELING WATER CLOSETS SHALL NOT EXTEND UP ON SIDE OF WATER CLOSET BASES. TAKE GROUT BACK TO MINIMUM 1/8" UNDER BASE AND CAULK FOR FINAL FINISH. VERIFY CAULK COLOR AND TYPE WITH ARCHITECT.
7.	REFERENCE ARCHITECTURAL CONTRACT DOCUMENTS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES. CONTACT ARCHITECT FOR ADDITIONAL INFORMATION AS REQUIRED.
8.	PROVIDE INVERTED TEE CONNECTION FROM SINK TAILPIECE OR FLUSH VALVE TYPE TRAP PRIMER CONNECTION TO ALL FLOOR DRAINS, FLOOR SINKS AND HUB DRAINS. AS LAST RESORT PROVIDE ELECTRONIC TYPE TRAP PRIMER (SIOUX CHIEF MODEL 685-E501 FOR UP TO 8 FLOOR DRAINS WITH CORRECT ACCESSORIES). PROVIDE FLUSH MOUNTING BOX WITH KEVED SS COVER. CONNECT TO NEAREST UNSWITCHED 120 VOLT POWER AND PROVIDE DISCONNECTING MEANS. CONNECT TO NEAREST WATER SERVING THAT AREA PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
9.	ALL PLUMBING FIXTURES TO BE "LEAD FREE" AS 1993 COMPLIANT (.25% OR LESS AVERAGE LEAD CONTENT). PROVIDE DOCUMENTATION IN SUBMITTALS THAT THIS REQUIREMENT IS MET FOR EACH APPLICABLE FIXTURE.
10.	PROVIDE WATER HAMMER ARRESTORS AT ALL PLUMBING FIXTURES. PROVIDE SIZE RECOMMENDED BY MANUFACTURER AND INSTALL IN LOCATIONS AS DIRECTED BY MANUFACTURER.
WCH	WATER CLOSET (ADA): SLOAN MODEL WETS 2020, 1001-1-28, FLOOR MOUNTED, VITREOUS CHINA, 1-1/2" TOP SPUD, ELONGATED BOWL, 17-1/4" HIGH AND 18-1/2" TO TOP OF SEAT. EXPOSED FLUSH VALVE: SLOAN ROYAL #111 WITH EBF-200-A SIDE MOUNT BATTERY PACK AUTO FLUSH, 1.28 GALLON FLUSH. SEATCHURCH MODEL 285CT, STA-TITE FASTENER, OPEN FRONT LESS COVER (WHITE). BEMIS 1955C OR EQUIVALENT. STAINLESS STEEL HARDWARE ONLY (NO PLASTIC ALLOWED)
LAH	LAVATORY (ADULT ADA): KOHLER K-2028-4-0, WHITE VITREOUS CHINA, WALL HUNG, 4" FAUCET CENTER AND GRID STRAINER, K-2057 SHROOD. FAUCET: SLOAN EBF-85-M. POLISHED CHROME SPOUT WITH .5 GPM AERATOR. 120V PLUG IN TRANSFORMER. WATER TEMPERATURE AS SET AT UNDER SINK TMV. 5 YEAR CARTRIDGE WARRANTY.
EWCHBF	ELECTRIC WATER COOLER WITH BOTTLE FILLER (ADA): ELKAY #LMABFTLRWSSK EZH20, HIGH EFFICIENCY, FILTERED, SENSOR ACTIVATED BOTTLE FILLING STATION, VANDAL RESISTANT, TWO (2) STATION FOUNTAIN, VANDAL RESISTANT PUSH BUTTON IN FRONT, VANDAL RESISTANT FLEXI-GUARD ANTI MICROBIAL BUBBLERS, STAINLESS STEEL FINISH, CANE APRON, 120V-1PH.
SS	SERVICE SINK: FIAT #MSB-2424 ONE-PIECE MOLDED STONE WITH #832-AA HOSE AND HOSE BRACKET #E-77-AA VINYL BUMPER GUARD MSG-2424 WALL GUARD AND #830-AA FAUCET. PROVIDE AND INSTALL HB-2 AT EACH SERVICE SINK LOCATION AT 36" AFF FOR CONNECTION TO OWNERS SOAP SYSTEM. CONNECT TO COLD WATER LINE SERVING SERVICE SINK.
WH	WATER HEATER: A.O.SMITH MODEL DEL-30, 30 GALLON STORAGE, 3KW-208V-1PH NON-SIMULTANEOUS ELEMENTS, 15 GPH RECOVERY AT 80 DEGREES RISE.
HWRP	HOT WATER RECIRCULATION PUMP: GRUNDFOS UPS15-55, THREE SPEED, 4 GPM AT TEN FEET (10') OF HEAD. 1/12 HP-120V-1PH.
HB	HOSE BIBB: WOODFORD MODEL 25 SERIES, ASSE 1011 BACKFLOW PROTECTED AUTOMATIC DRAINING, FREEZELESS. PROVIDE SHUT-OFF VALVE INSIDE BUILDING IN ACCESSIBLE LOCATION. SLOPE LINE FROM SHUT-OFF VALVE TO WALL HYDRANT TO ALLOW DRAINING OF LINE FOR FREEZE PROTECTION.
FD	(GENERAL PURPOSE): C.I. BODY, FLASHING COLLAR, WEEPHOLES, ADJUSTABLE STAINLESS STEEL SQUARE TOP (6" x 6"). MIFAB F1100 CS-3 SERIES.
HD	(HUB DRAIN): C.I. BODY, ROUND STRAINER WITH SATIN BRONZE FINISH. MIFAB F1100 C-DD SERIES.
SS2E	EXISTING TWO(2) COMPARTMENT SINK TO BE REMOVED AND CAPPED. REFERENCE ARCHITECTURAL DEMO PLAN FOR MORE INFO.
HSE	EXISTING HAND SINK TO BE REMOVED AND CAPPED. REFERENCE ARCHITECTURAL DEMO PLAN FOR MORE INFO.
TMV	POINT OF USE THERMOSTATIC MIXING VALVE: WATTS MODEL LFUSG-B LEAD FREE UNDER SINK GARDIAN BRONZE THERMOSTATIC MIXING VALVE WITH 3/8" COMPRESSION FITTINGS ON COLD AND HOT INLETS WITH CHECK VALVES AND STRAINERS AND 3/8" COMPRESSION FITTINGS ON COLD AND TEMPERED OUTLETS. ASSE 1070 LISTED. PROVIDE ONE TMV FOR EACH AND EVERY LAV, WASH FOUNTAIN, HAND SINK AND SINK. THEY ARE NOT REQUIRED FOR KITCHEN 2 AND 3 COMPARTMENT SINKS. INITIALLY SET TMV'S TO PROVIDE 105 DEGREE TEMPERED WATER.

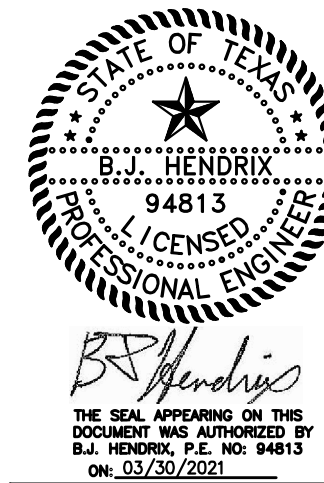
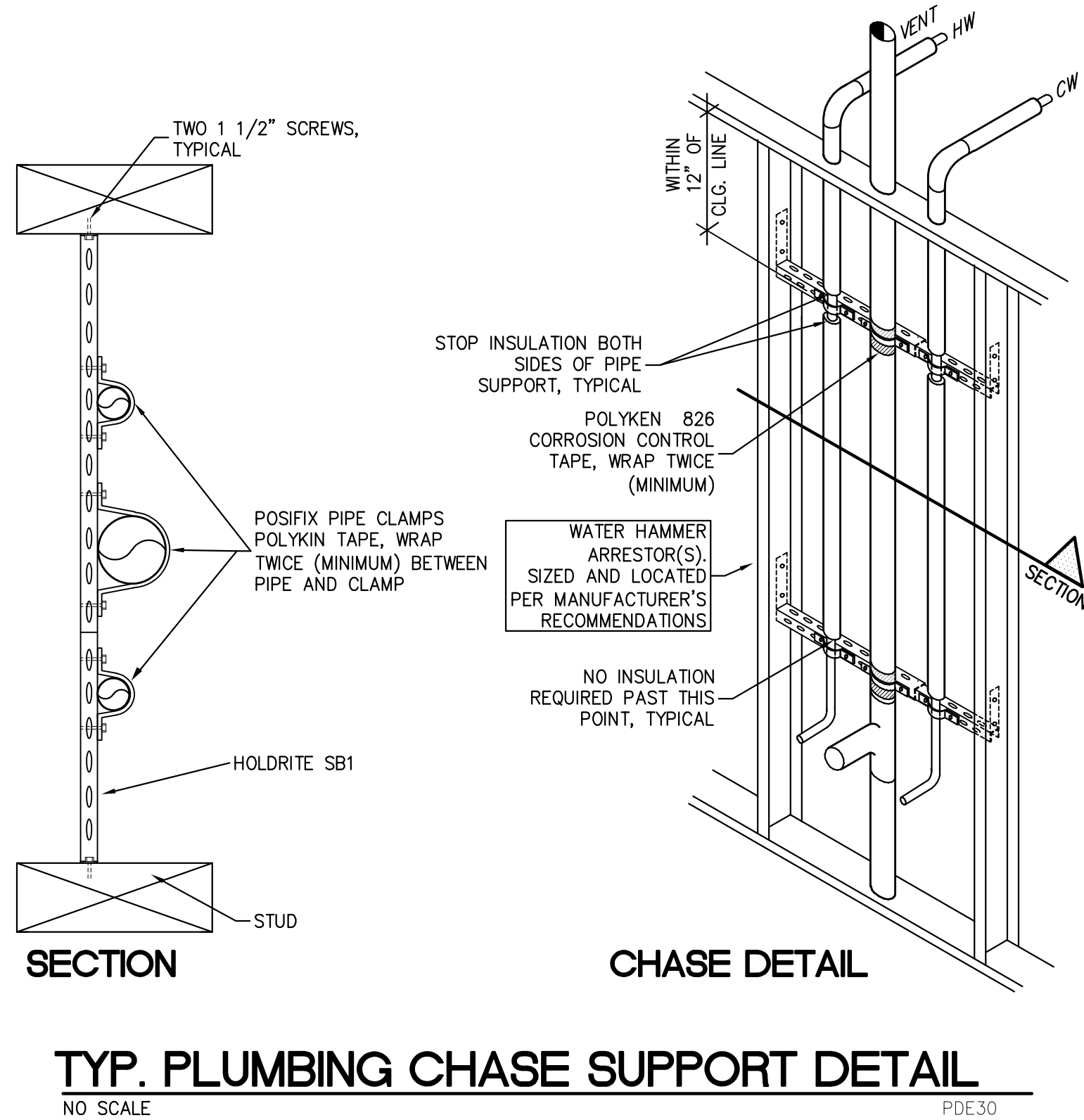
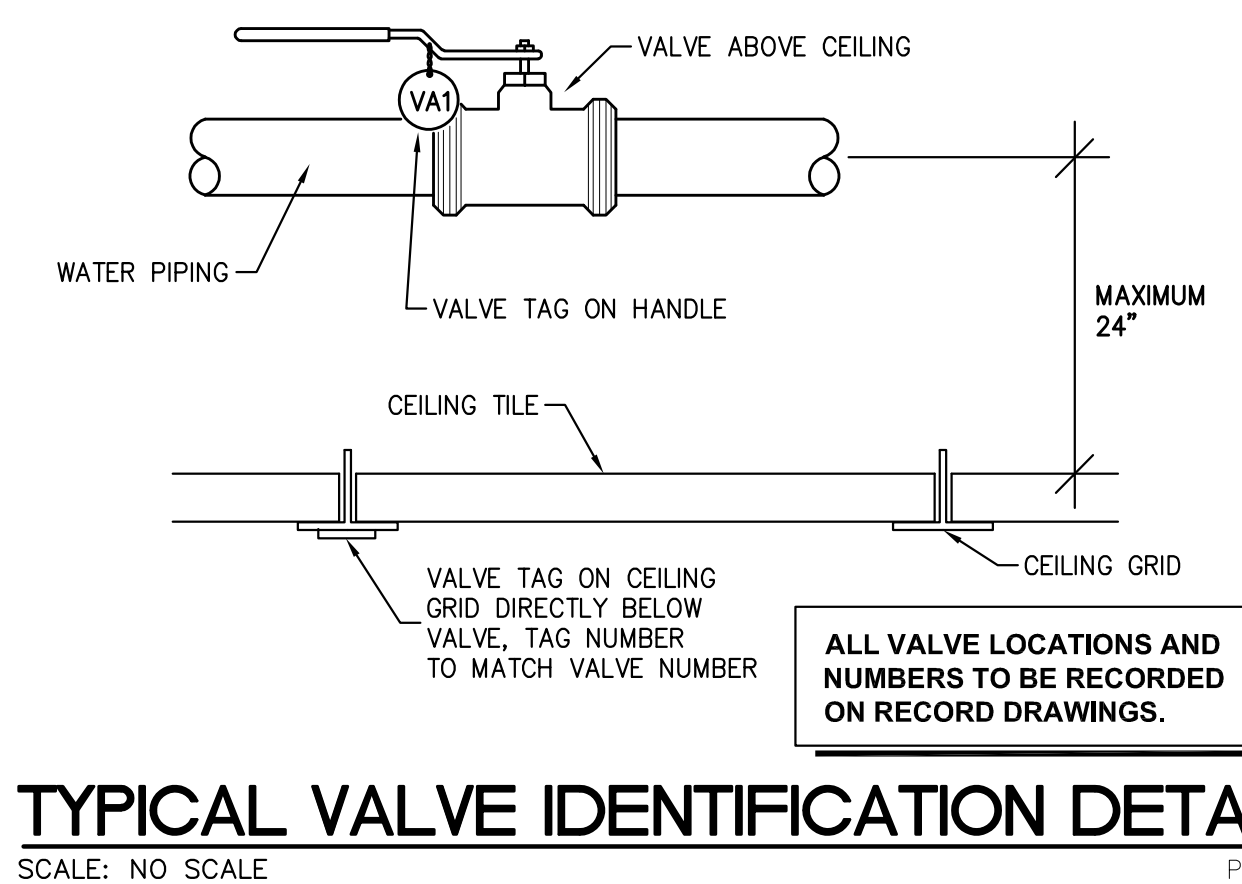
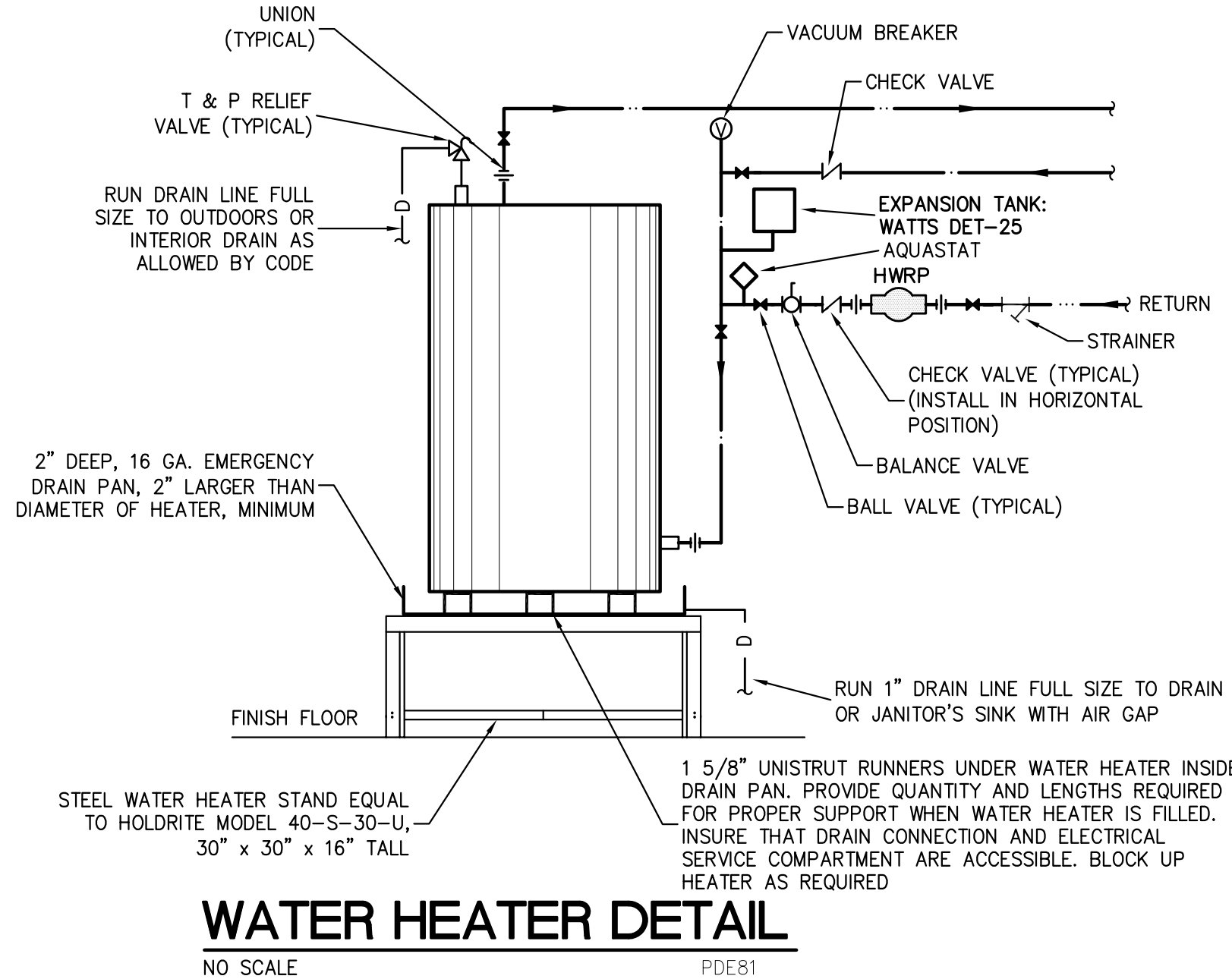
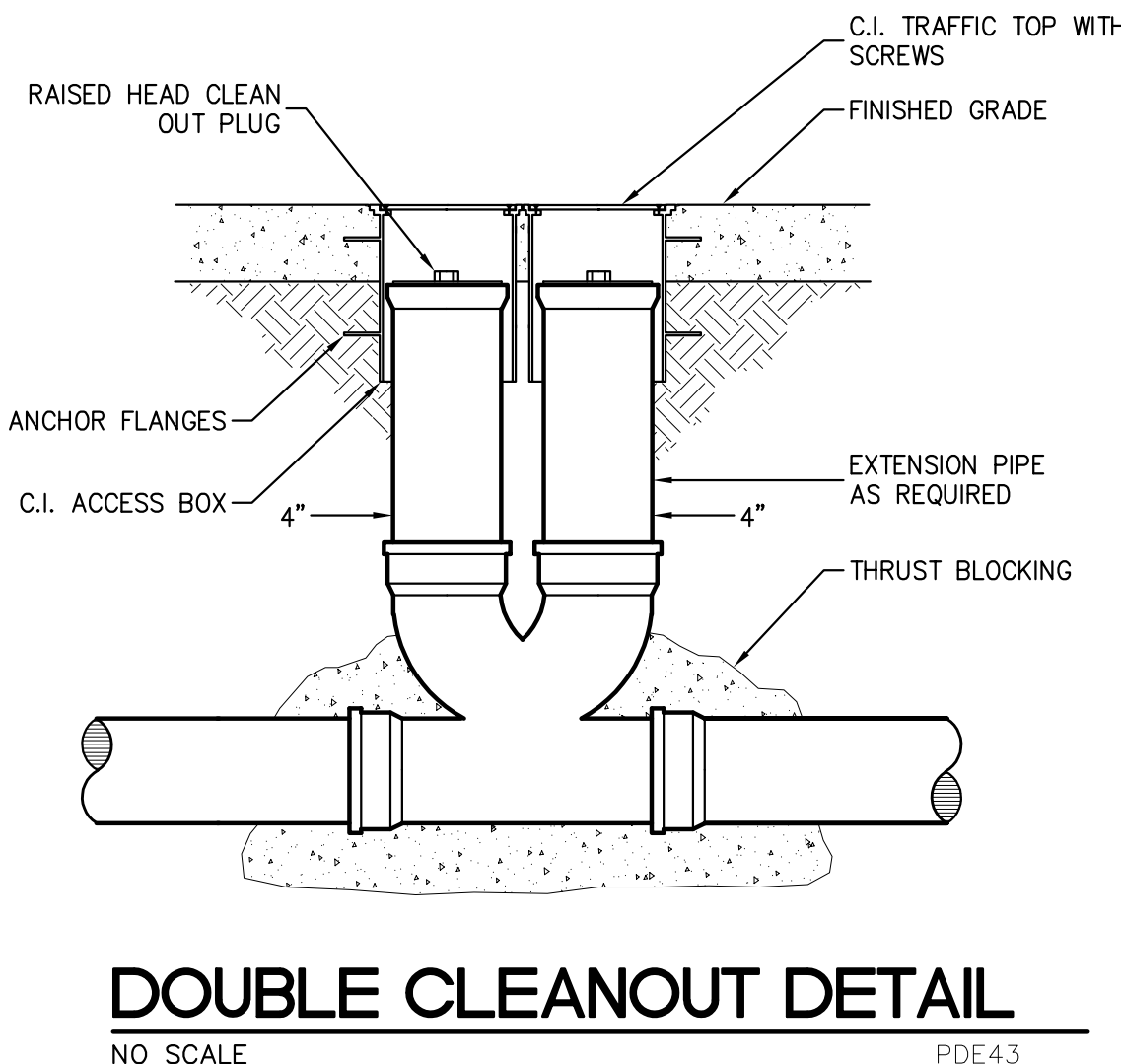
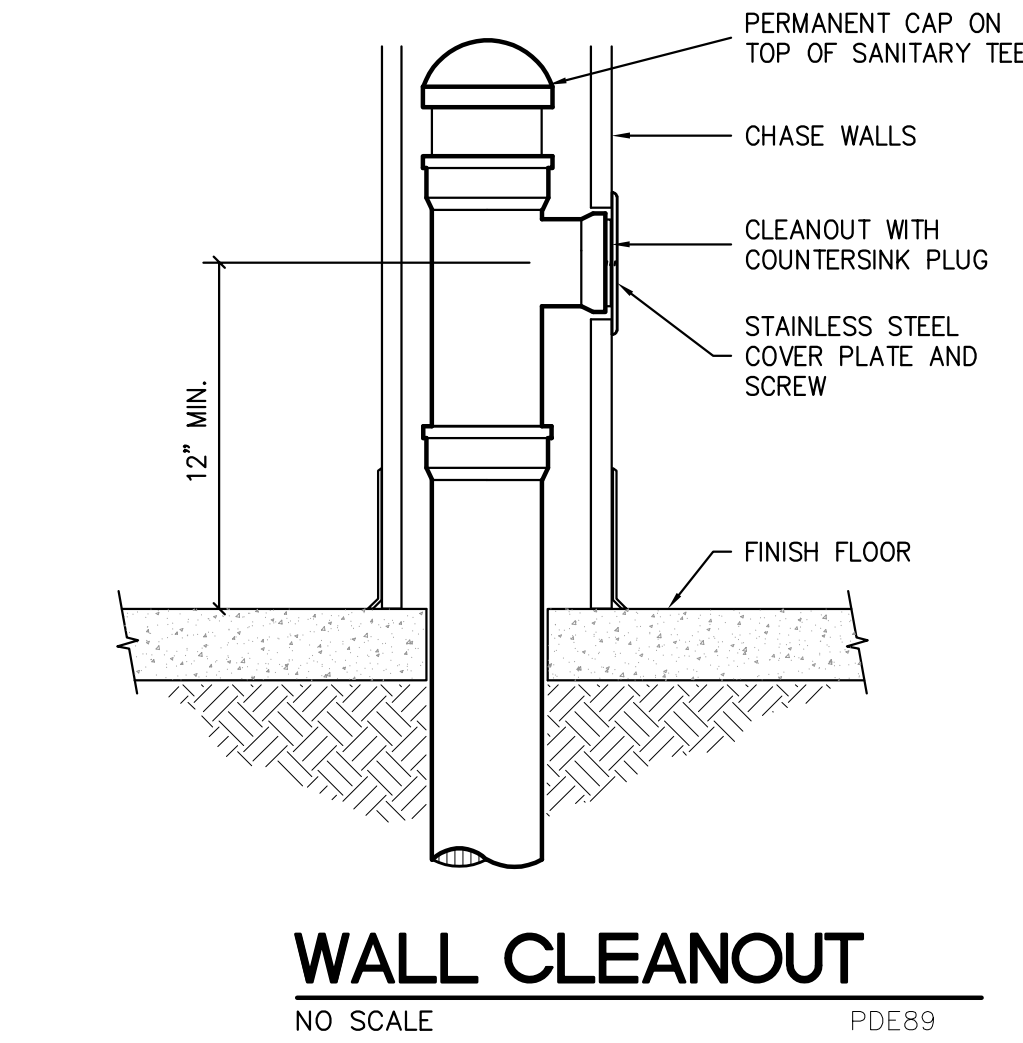
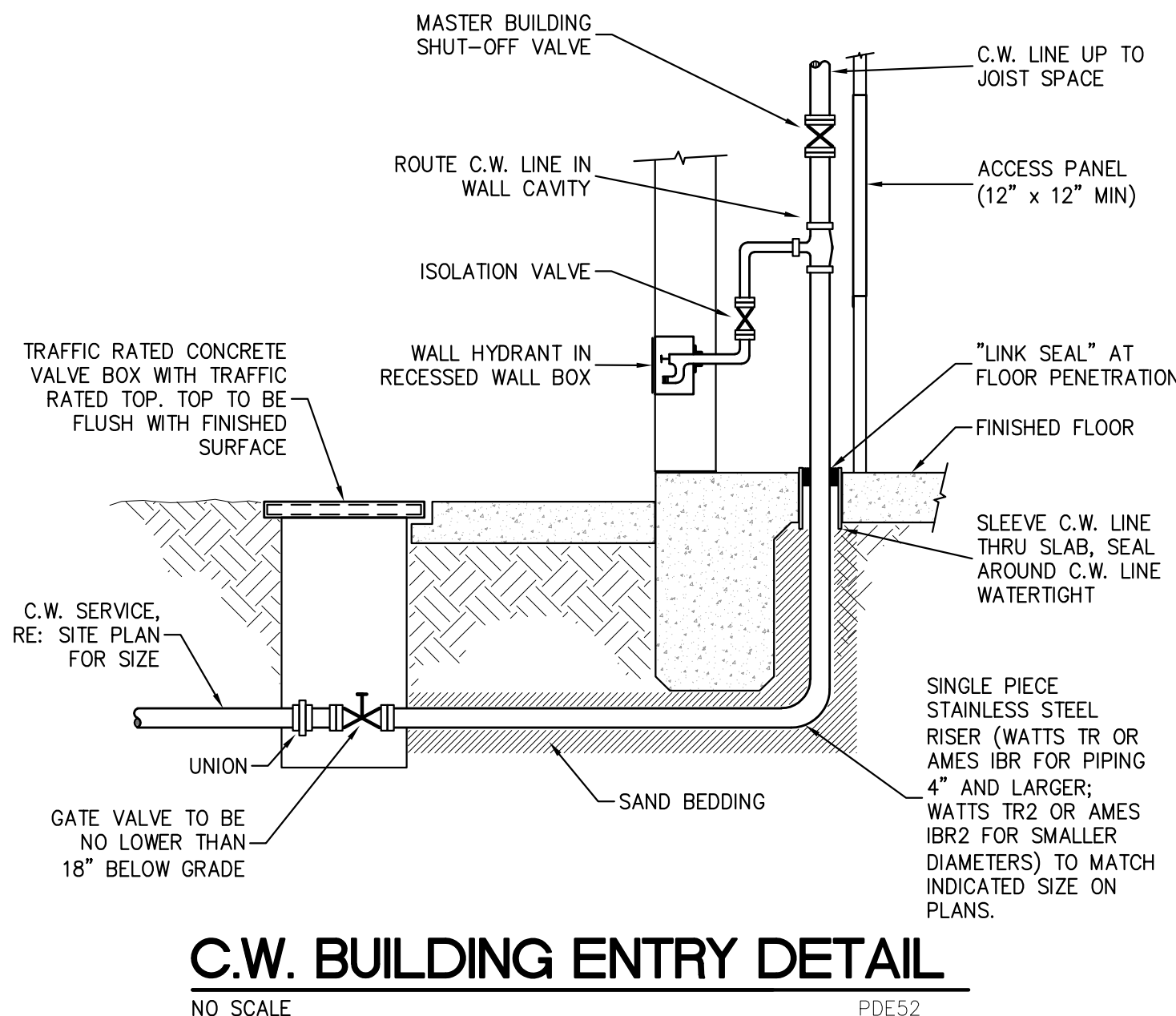
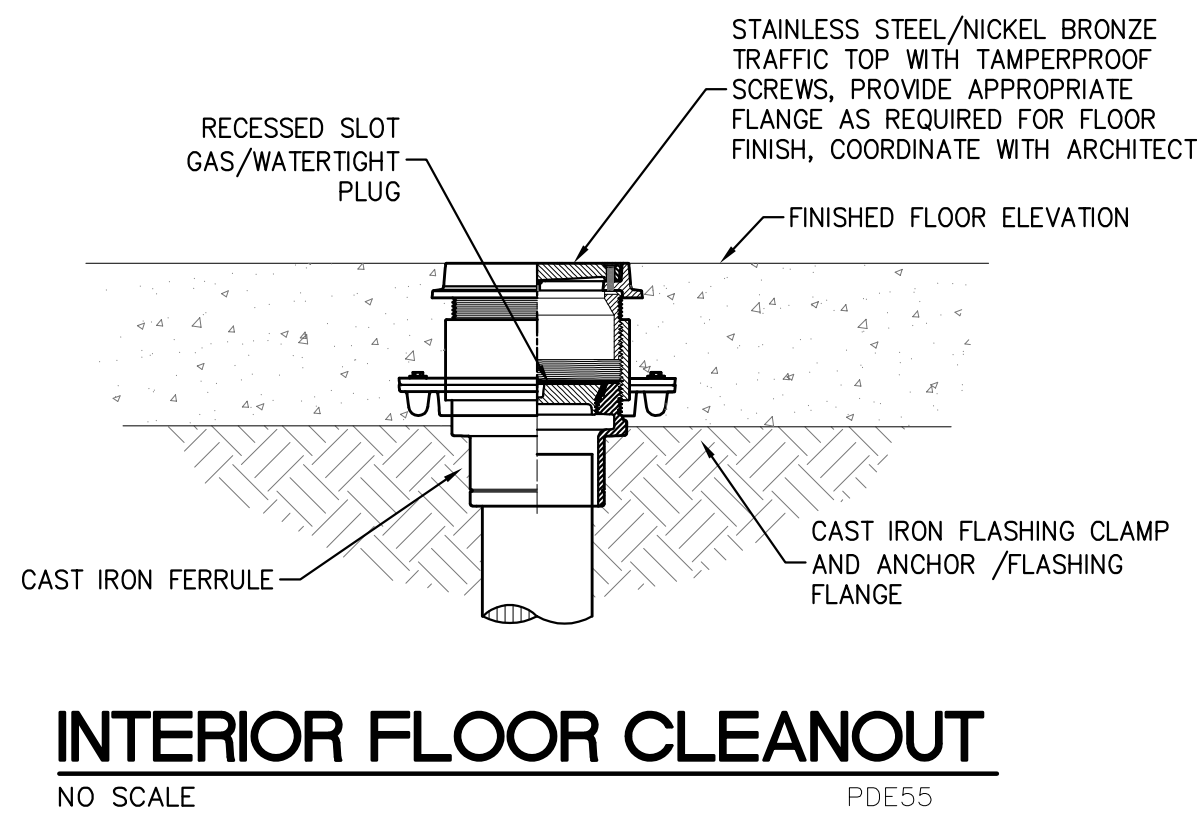


REFERENCE GENERAL NOTES ON SHEETS M101, P101, AND E101 FOR ADDITIONAL INFORMATION

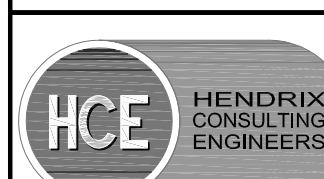


This document, the ideas and designs incorporated herein are and shall remain the property of Hendrix Consulting Engineers. These documents are not to be used or altered, in whole or in part, for other than the original intended use, nor are they to be assigned to any third party without written permission from Hendrix Consulting Engineers. P - 4095 HCE job no.: 20-074

1/18/2021 4:52:38 PM C:\Users\Joey\Documents\REVIT LOCAL\74 Hutto ISD Gym Renovation_MEP20_Joey.rvt



REFERENCE GENERAL NOTES ON SHEETS M101, P101, AND E101 FOR ADDITIONAL INFORMATION



This document, the ideas and designs incorporated herein are and shall remain the property of Hendrix Consulting Engineers. These documents are not to be used or altered, in whole or in part, for other than the original intended use, nor are they to be assigned to any third party without written permission from Hendrix Consulting Engineers. P - 4095

HCE job no.: 20-074

HUTTO ISD GYM RENOVATION

200 COLLEGE STREET HUTTO, TX 78634

HUTTO ISD

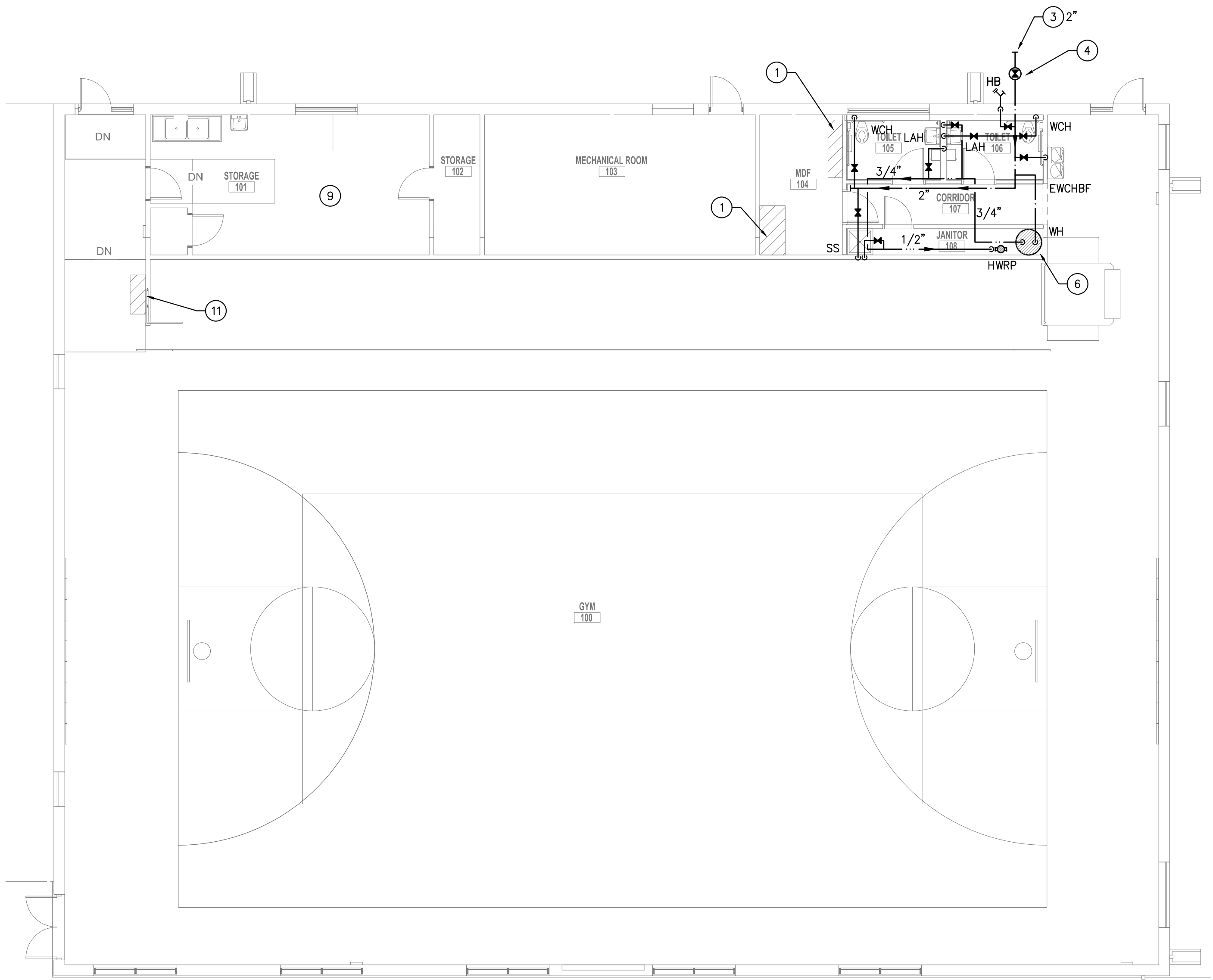
200 COLLEGE STREET
HUTTO, TEXAS 78634

PROJECT NO. 20-074
DATE: 3/20/2021
DRAWN BY: Author CHECKED BY: Checker
REVISIONS:
Date Description

BID SET
P102
DETAILS - PLUMBING

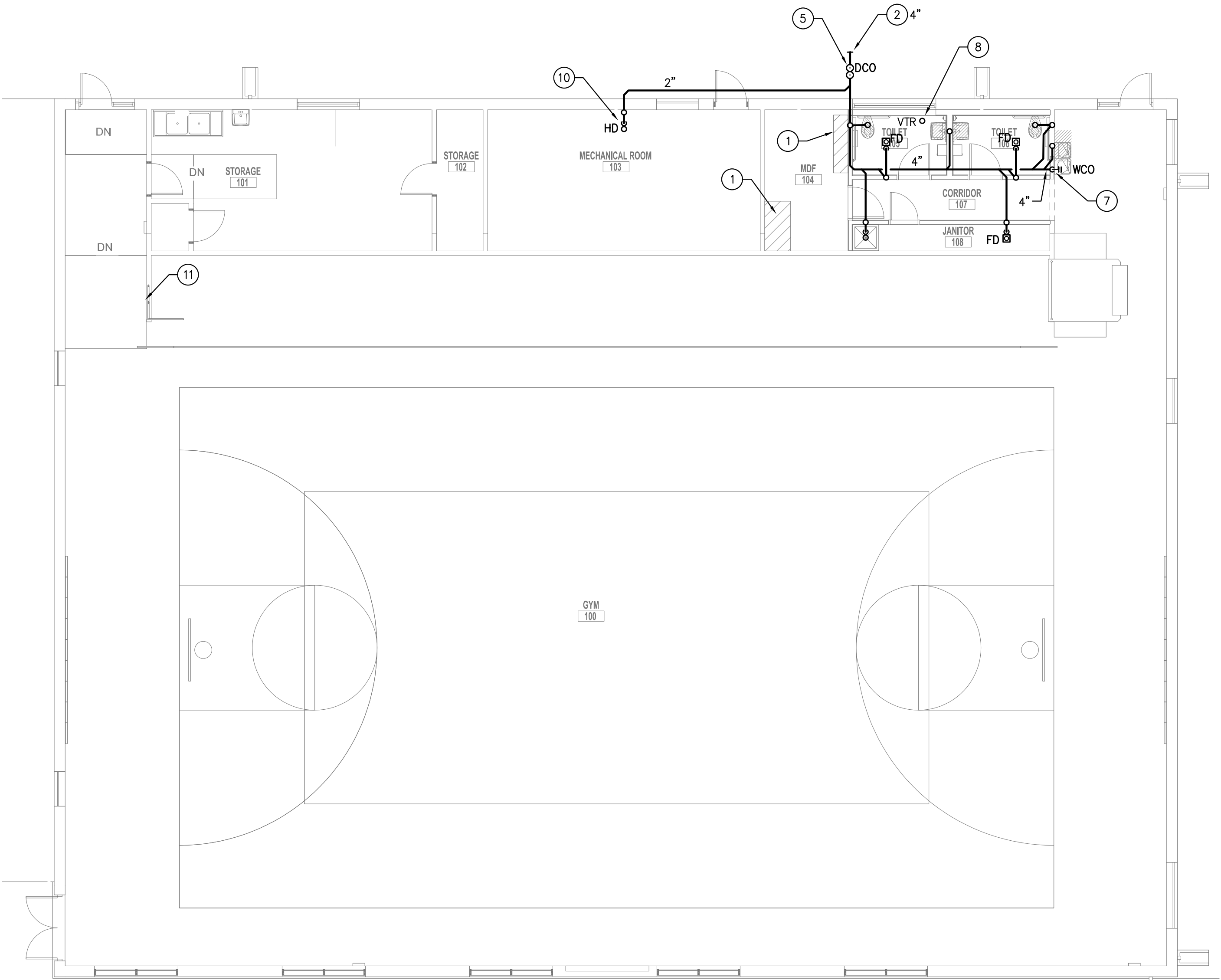
pfluger

Office: 512.476.4040 | Fax: 512.476.4289
209 E. Riverside Drive Austin, Texas 78704
pflugerarchitects.com



01 FLOOR PLAN - PLUMBING - SUPPLY

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



01 FLOOR PLAN - PLUMBING - WASTE

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

KEYED NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

- DO NOT ROUTE ANY PIPING ABOVE THIS AREA.
- CONNECT TO WASTEWATER (WW) STUB PROVIDED BY CIVIL. FIELD VERIFY EXACT LOCATION AND INVERT. PROVIDE ADAPTER AS REQUIRED TO MAKE SIZE AND/OR MATERIAL TRANSITION.
- CONNECT TO COLD WATER (CW) STUB PROVIDED BY CIVIL. FIELD VERIFY EXACT LOCATION. PROVIDE ADAPTER AS REQUIRED TO MAKE SIZE AND/OR MATERIAL TRANSITION.
- RE: CW BUILDING ENTRY DETAIL ON PLUMBING DETAIL SHEET(S).
- RE: DOUBLE CLEANOUT DETAIL ON PLUMBING DETAIL SHEET(S).
- RE: WATER HEATER DETAIL ON PLUMBING DETAIL SHEET(S).
- RE: INTERIOR CLEANOUT DETAIL ON PLUMBING DETAIL SHEET(S).
- PLUMBER TO FIELD LOCATE AND VERIFY BEST LOCATION FOR THE VTR.
- EXISTING PLUMBING TO BE REMOVED. CAP AND SEAL ALL PIPES. SEE ARCHITECTURAL DEMO PLAN FOR MORE INFO.
- HUB DRAIN ABOVE SLAB WITH DEEP SEAL TRAP AND TRAP GUARD MUST BE CAST IRON AND CAST IRON VENT. ROUTED OUTSIDE BELOW GRADE TO AVOID CUTTING SLAB.
- EXISTING WATER FOUNTAIN PLUMBING TO BE REMOVED. CAP AND SEAL ALL PIPES TO BE NON VISIBLE IN THE WALL. CONFIRM WITH ARCHITECT.

pfluger

Office: 512.476.4040 | Fax: 512.476.4289
209 E. Riverside Drive | Austin, Texas 78704
pflugararchitects.com

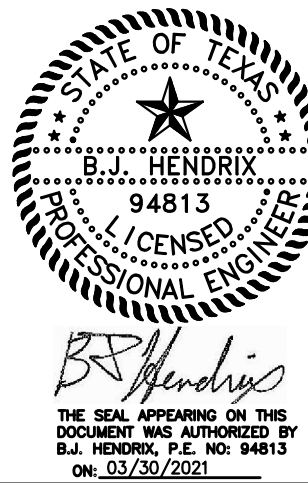
HUTTO ISD GYM RENOVATION

200 COLLEGE STREET HUTTO, TX 78634

HUTTO ISD

200 COLLEGE STREET
HUTTO, TEXAS 78634

PROJECT NO. 20-074
DATE: 3/20/2021
DRAWN BY: Author CHECKED BY: Checker
REVISIONS:
Date Description



REFERENCE GENERAL NOTES ON SHEETS M101, P101, AND E101 FOR ADDITIONAL INFORMATION



This document, the ideas and designs incorporated herein are and shall remain the property of Hendrix Consulting Engineers. These documents are not to be used or altered, in whole or in part, for other than the original intended use, nor are they to be assigned to any third party without written permission from Hendrix Consulting Engineers. P - 4095

HCE job no.: 20-074

BID SET
P201
FLOOR PLAN -
PLUMBING

MECHANICAL EQUIPMENT SUBMITTALS (INCLUDES FANS, VAV BOXES, ETC.) MUST INCLUDE COMPLETED MECHANICAL/ELECTRICAL COORDINATION SHEET AS WELL AS A WRITTEN CONTROL POINTS LIST/ WIRING DIAGRAM AND FULL ELEMENTARY NARRATIVE OF EVERYTHING NEEDED FOR PROPER START UP AND OPERATION. MECHANICAL/ELECTRICAL PROCEDURES AND CONTINUED OPERATION OF EQUIPMENT BEING PROVIDED. WHEN STANDARD THERMOSTAT CONTROL INTERFACE IS USED, PROVIDE WIRING DIAGRAM FOR CONNECTION FROM THERMOSTAT TYPE INTERFACE AND NARRATIVE OF WHAT SIGNALS ARE REQUIRED FOR EACH MODE OF OPERATION. FAILURE TO FOLLOW THESE REQUIREMENTS WILL RESULT IN AN IMMEDIATE FLAT REJECTION OF THE SUBMITTAL. FAN SUBMITTALS TO INCLUDE CURVES OF SELECTED POINT AS WELL AS LOWEST POSSIBLE AND HIGHEST POSSIBLE OPERATION POINTS WITH SELECTED MOTOR AND DRIVE.

MECHANICAL EQUIPMENT VENDORS FACTORY SERVICE AND START-UP TECHNICIAN (NOT THE MECHANICAL CONTRACTORS SERVICE TECHNICIAN, EVEN WHEN CERTIFIED) WILL ASSIST MECHANICAL CONTRACTOR WITH FINAL START-UP AND DDC SYSTEM INTEGRATION WITH CONTROLS CONTRACTOR, WITH THE EXCEPTION OF THE TOWER UNIT, MECHANICAL ACCEPTANCE. A SIGNATURE OF THIS IS NOT A NOTIFICATION REQUIREMENT. IT IS NOT OPTIONAL FOR AN CONTRACTOR TO VENDOR. ALL SEQUENCES OF THE UNITS OPERATION ARE TO BE CONFORMED WITH THE BUILDING CONTROL SYSTEM INITIATING EACH CALL. JUMPING THE UNITS CONTROLS OR RUNNING EQUIPMENT ON INTERNAL CONTROLS TO CONFIRM OPERATION IS NOT ACCEPTABLE. CONTACT ENGINEER 3 DAYS PRIOR TO WHEN FINAL START-UP/CONTROL INTEGRATION WILL BE PERFORMED ON SITE SO THAT ENGINEER MAY BE PRESENT DURING PART OF THIS WORK AT HIS DISCRETION. MECHANICAL CONTRACTOR IS TO DO THE PRELIMINARY START UP OF RTU'S AND SPLIT'S MAKING SURE UNIT IS PROPERLY CALIBRATED FROM CALIBRATION TAGS AND TO RUN ON INTERNAL CONTROLS OR TEMPORARY CONTROLS UNTIL FINAL START UP/CONTROL INTEGRATION AND TABS ARE DONE, TEST AND BALANCE CONTRACTOR IS TO ALSO BE PART OF THE FINAL START UP PROCESS TO MAKE SURE THE CORRECT CFM IS PROPERLY INTEGRATED TO THE STAGES OF UNIT OPERATION. FINAL START UP SHEET IS TO BE SIGNED AND DATED BY ALL PARTIES DURING THIS PROCESS. WHEN THERE ARE MULTIPLES OF THE SAME EXACT SAME TONNAGE, OPTIONS AND STYLE UNIT, ONE MAY BE SET UP BY VENDORS TECHNICIAN FROM CALIBRATION TAGS AND THE OTHER SET UP BY CONTRACTORS TECHNICIAN. CONTRACTORS TECHNICIAN MUST BE PRESENT WITH THE VENDOR CONTRACTOR TO MATCH IT FOR INTEGRATION. UNITS MUST BE LEFT IN FULL CONTROL BY THE DDC SYSTEM, NOT ON UNITS INTERNAL CONTROLS. SEE SPECS FOR FURTHER INFORMATION. VENDOR START UP INCLUDES BUT IS NOT LIMITED TO ALL COMPRESSORIZED PIECES OF EQUIPMENT, BOILERS, TOWERS, FLUID COOLERS, VFD'S, ETC.

COMPLETED MECHANICAL/ELECTRICAL EQUIPMENT COORDINATION SHEET IN SPECIFICATION SECTION 20 00 00 TO BE FORWARDED TO AND BY ELECTRICAL CONTRACTOR FOR COORDINATION AND TO BECOME PART OF THE ELECTRICAL GEAR SUBMITTAL.

CONTROL NARRATIVE AND POINTS LIST FROM EQUIPMENT SUBMITTAL PACKAGE IS TO BE DISTRIBUTED TO THE GC AND TO THE CONTROL CONTRACTOR AND IS TO BECOME PART OF THE CONTROL SUBMITTAL.

SETTINGS IN EQUIPMENT AND IN CONTROLS TO ACHIEVE OPERATIONAL CHARACTERISTICS REQUIRED ARE TO BE SETUP BY VENDOR AND CONTROL CONTRACTOR AND THEN BE NOTED IN THE UNIT AND IN THE AS BUILTS.

FIRST STAGE OF COOLING IS TO BEGIN ONCE SETPOINT HAS BEEN EXCEEDED BY ONE DEGREE F. COOLING IS SUSPENDED ONCE IT IS ONE DEGREE BELOW SETPOINT. SECOND STAGE COOLING TO BEGIN ONCE SETPOINT IS EXCEEDED BY TWO DEGREES. SECOND STAGE COOLING WILL CEASE AND UNIT WILL REMAIN IN FIRST STAGE ONCE SPACE IS WITHIN ONE DEGREE OF SETPOINT. STAGE UP AND STAGE DOWN TO EXTEND COOLING CYCLES. HEATING IS TO BE CONTROLLED IN A SIMILAR FASHION.

ALL SPACE SENSORS/THERMOSTATS ARE TO BE CALIBRATED SO THAT TEMPERATURE INDICATED IS WITHIN ONE DEGREE F OF ACTUAL TEMPERATURE.

AD	ACCESS DOOR	MAINT	MAINTENANCE
ABV	ABOVE	MAU	MAKEUP AIR UNIT
AF	ABOVE FINISHED FLOOR	MC	MAXIMUM
ARCH	ARCHITECT	MC	MECHANICAL CONTRACTOR
AUT	AUTOMATIC	MBH	1000 BTU PER HOUR
AUX	AUXILIARY	MECH	MECHANICAL
AHU	AIR HANDLING UNIT	MIN	MINIMUM
BD	BALANCE DAMPER	MISC	MISCELLANEOUS
BFF	BELOW FINISHED FLOOR	MTD	MOUNTED
BLDG	BUILDING	MOD	MOTOR OPERATED DAMPER
BDG	BOTTOM OF DUCT		
BOF	BOTTOM OF PIPE	NIC	NOT IN CONTRACT
BOF	BOOSTER FAN	N.O.	NORMALLY OPEN
		N.C.	NORMALLY CLOSED
CLG	CEILING	NO.	NUMBER
CLR	CLEAR/CLEARANCE	NTS	NOT TO SCALE
COL	CLEANOUT		
COL	COLUMN	O/A	OUTDOOR AIR
CONC	CONCRETE	OB	OPPOSED BLADE DAMPER
CONTR	CONTRACTOR	OC	ON CENTER(S)
CON	COLD WATER	OPNG	OPENING
CONN	CONNECTION	ORL	OVERFLOW RAINLEAD
CU	CONDENSING UNIT	OAH	OUTSIDE AIR HOOD
CU	COPPER		
CHS	CHILLED WATER SUPPLY	PC	PLUMBING CONTRACTOR
CHR	CHILLED WATER RETURN	PH	PHASE
		PLBG	PLUMBING
DIA	DIAMETER		
DN	DOWN	R/A	RETURN AIR
DWG	DRAWING	RE:	REFERENCE/REFER TO
DH	DUCT HEATER	REFRIG	REFRIGERANT
E/A	EXHAUST AIR	REF	REFRIGERATOR
EC	ELECTRICAL CONTRACTOR	REQD	REQUIRED
E/A	EXHAUST FAN	RHP	RADIANT HEAT PANEL
ELEC	ELECTRIC/ELECTRICAL	RL	RAINLEAD
EQ	EQUAL	RM	ROOM
EQUIP	EQUIPMENT	RTU	ROOFTOP UNIT
EX	EXISTING		
EXH	EXHAUST	S/A	SUPPLY AIR
E.S.P.	EXTERNAL STATIC PRESSURE	SH	SCHEDULE
ERV	ENERGY RECOVERY VENTILATOR	SF	STATIC PRESSURE
		SPEC	SPECIFICATION
FCO	FLOOR CLEAN OUT	SD	STORM DRAIN
FCU	FAN COIL UNIT	SF	SUPPLY FAN
FF	FINISHED FLOOR	TSP	TOTAL STATIC PRESSURE
FLEX	FLEXIBLE	THP	TYPICAL
FLR	FLOOR/FLOORING		
		UON	UNLESS OTHERWISE NOTED
GA	GAUGE	UH	UNDERGROUND UNIT
GC	GENERAL CONTRACTOR	UNIT	UNIT HEATER
GEN	GENERAL		
GYP	GYPSUM BOARD	V	VENT (PLUMBING)
		V	VOLTAGE (ELECTRICAL)
		VTR	VENT THROUGH ROOF
HOSE	HOSE BIBB/WALL HYDRANT		
HP	HEAT PUMP	W/	WITH
HT	HORSEPOWER	W/O	WITHOUT
HT	HEIGHT	WP	WATERPROOF
HW	HOT WATER	WT	WEIGHT
HWC	HOT WATER CIR	WTR	WATER
HR	HOUR		
HWR	HEATING WATER RETURN	WV	WASTE WATER
HWS	HEATING WATER SUPPLY	WH	WALL CATCHER WATER HEATER
LOC	LOCATION		

SYMBOL	ABB.	DESCRIPTION
	FD	FIRE DAMPER (RE: ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS)
	FSD	COMBINATION FIRE/SMOKE DAMPER
	DB	DUCT BARRIER WITH SECURITY 1/2" BARS (6 x 6) EQUAL TO PRICE MODEL MSBG
	TSTAT	THERMOSTAT/CONTROL DEVICE
		REMOTE TEMPERATURE SENSOR
		HUMIDISTAT
		CARBON DIOXIDE SENSOR
		FIRESTAT
		SMOKE DETECTOR
		ABSOLUTE HUMIDITY SENSOR
	MOD	MOTOR OPERATED DAMPER
		VENTILATION SWITCH
		LONG RADIUS 90° ELBOW
		BRANCH TAKE-OFF WITH DAMPER
		RADIUS DUCT SPLIT W/LOCKING SPLITTER DAMPER
		CEILING SUPPLY AIR DEVICE
		CEILING RETURN OR EXHAUST DEVICE
		CONDENSATE DRAIN
		BALL VALVE - 2" AND SMALLER BUTTERFLY VALVE - LARGER THAN 2"
	O.B.D.	OPPOSED BLADE DAMPER
		SMOKE SUPPLY GRILLE
		POINT OF CONNECTION
		MANUAL DAMPER (OBD WHEN ON MAU DUCTWORK)
		DUCT ACCESS DOOR

THE CONTRACTOR IS TO VISIT THE SITE PRIOR TO BID TO FAMILIARIZE HIMSELF WITH ALL CONDITIONS AS THEY EXIST. SUBMISSION OF BID INDICATES THE CONTRACTOR'S UNDERSTANDING OF EXISTING CONDITIONS AND HIS WILLINGNESS TO WORK WITH THESE CONDITIONS. NO ADDITIONAL TIME OR MONEY WILL BE ALLOTTED DUE TO LACK OF COORDINATION WITH EXISTING CONDITIONS OR OTHER TRADES.

B. CONTRACTORS TO REVIEW AND COMPARE ALL DRAWINGS SO ALL WORK IN THEIR RESPECTIVE TRADE IS INCLUDED IN BID. EACH CONTRACTOR SHALL INCLUDE ALL MATERIALS AND INSTALLATION REQUIRED FOR HIS PARTICULAR TRADE AFTER COMPLETE REVIEW OF ALL CONTRACT DRAWINGS AND SPECIFICATIONS.

C. ALL WORK SHALL COMPLY WITH THE CURRENT APPLICABLE LOCAL, STATE AND FEDERAL CODES AND ORDINANCES. FOLLOW RECOMMENDED PRACTICES AS SET DOWN BY ASME, SMACNA, ASHRAE, NFPA, APPLICABLE BUILDING CODE, APPLICABLE MECHANICAL CODE, APPLICABLE PLUMBING CODE, NATIONAL ELECTRICAL CODE, AGA, ADA AND OSHA. AS THEY APPLY TO THIS PROJECT, EXCEPT IN CASES WHERE LOCAL STATUTES GOVERN. THE CONTRACTOR SHALL VERIFY WITH THE LATEST ADAPTED LOCAL CODES, ORDINANCES AND AMENDMENTS THAT APPLY TO THIS PROJECT WITH THE AUTHORITY HAVING JURISDICTION.

D. MECHANICAL CONTRACTOR TO COMPLETE A MECHANICAL/ELECTRICAL EQUIPMENT COORDINATION SHEET IN SPECIFICATION SECTION 20 00 00 AND SUBMIT COMPLETED FORM WITH EQUIPMENT SUBMITTAL AND PROVIDE A COMPLETED FORM TO THE ELECTRICAL CONTRACTOR.

E. PROVIDE TRAP AND PROPER VENTING AT EACH A/C UNIT PER THE MANUFACTURER'S RECOMMENDATIONS. ROUTE CONDENSATE TO NEAREST CODE APPROVED DISPOSAL POINT.

F. PROVIDE COMPLETE DIRECT DIGITAL CONTROL SYSTEM DESIGNED TO MEET THE JOB SPECIFICATIONS. UNLESS THE DIRECT DIGITAL CONTROL SPECIFICATIONS SPECIFICALLY CALL FOR A HYBRID SYSTEM UTILIZING STANDARD THERMOSTATS, DEHUMIDISTATS, ETC. ALL CONTROLS REQUIRED ARE TO BE PROVIDED BY THE CONTROLS CONTRACTOR. PRIOR TO SUBMISSION OF BIDS, CONTROL CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFICATION OF CONTROL REQUIREMENTS FOR ALL HVAC GEAR WITH MANUFACTURER. VERIFY ACTUAL NUMBER OF POINTS REQUIRED AND PROVIDE APPROPRIATE CONTROLLERS WITH A SUFFICIENT NUMBER OF POINTS AVAILABLE. PULSE WIDTH MODULATORS OR ANY OTHER METHOD OF STRETCHING A GIVEN CONTROLLER'S NUMBER OF POINTS ARE STRICTLY PROHIBITED. ADDITIONAL MONIES NOT WILL BE ALLOTTED DUE TO FAILURE OF BIDDER TO VERIFY ALL REQUIREMENTS PRIOR TO SUBMISSION OF BIDS.

G. CONFIRM LOCATION AND MOUNTING HEIGHT OF EACH THERMOSTAT/SENSOR PRIOR TO INSTALLATION. COORDINATE WITH ARCHITECT, OWNER, MILLWORK, SWITCHES, EQUIPMENT, FURNITURE, ETC. PROVIDE INSULATED SUBBASE FOR EACH THERMOSTAT/SENSOR.

H. PROVIDE ENGRAVED LABELS FOR ALL EQUIPMENT. LABEL ALL THERMOSTATS/SENSORS TO CORRESPONDING EQUIPMENT NUMBER. PROVIDE ENGRAVED ACCESS PANEL MARKERS ON THE CEILING GRID TO INDICATE ACCESS LOCATIONS FOR EQUIPMENT ABOVE CEILING.

I. ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS.

J. RETURN AIR PLENUMS ON BACK OF AIR HANDLING UNITS TO BE FULL SIZE OF RETURN OPENING ON UNITS. PROVIDE MINIMUM 16" x 16" ACCESS DOOR IN RETURN PLENUM IN ACCESSIBLE LOCATION.

K. COORDINATE WITH ALL STRUCTURAL BRACING FOR ROUTING OF DUCT AND DIFFUSERS.

L. BEFORE ANY CUTTING OR TRENCHING OPERATIONS BEGIN, VERIFY WITH OWNER'S REPRESENTATIVE, UTILITY COMPANIES AND OTHER INTERESTED PARTIES THAT ALL AVAILABLE INFORMATION HAS BEEN PROVIDED CONCERNING EXISTING UTILITY LOCATION. VERIFY LOCATIONS GIVEN. CONTACT ARCHITECT IMMEDIATELY UPON UNCOVERING UNKNOWN UTILITIES FOR FURTHER DIRECTION. INDICATE ALL UNCOVERED UTILITIES ON RECORD DRAWINGS.

M. REFRIGERANT PIPING: THE REFRIGERATION SYSTEM SHALL BE INSTALLED COMPLETE AS A SYSTEM WITH ALL REFRIGERANT, OIL, VALVES, DEHYDRATORS, GAUGES AND CONTROLS AS REQUIRED FOR PROPER OPERATION OF THE SYSTEM. PIPING SHALL BE HARD DRAWN ACR REFRIGERANT PIPING WITH WROT FITTINGS IN ACCORDANCE WITH ARI STANDARDS. USE LONG RADIUS ELBOWS. INSULATE SUCTION LINES AND SEAL ALL CUT ENDS AND EDGES WITH ADHESIVE TO PROVIDE AN AIR TIGHT SEAL. USE 3/4" ARMAREX AP II INSULATION. REFRIGERANT PIPING IN INACCESSIBLE SPACES, SUCH AS WALL CAVITIES, OR IN UNDERGROUND SLEEVES IS TO BE SOFT DRAWN COPPER WITH NO FITTINGS IN THE INACCESSIBLE AREAS. ALL BENDS IN SOFT COPPER ARE TO BE MADE WITH REFRIGERATION TUBING BENDER. INSTALL COMBINATION SIGHT GLASS/MOISTURE INDICATOR NEAR LIQUID LINE CONNECTION TO OUTDOOR UNIT.

N. FIRE/SMOKE AND/OR FIRE DAMPERS: INSTALL DAMPERS AT ALL DUCT PENETRATIONS OR RATED WALLS, TUNNELS AND CEILINGS. ALL DAMPERS TO BE OUT OF AIRSTREAM TYPE. DAMPERS TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE FACTORY WALL SLEEVE AND ANGLE KIT. ACCESS PANEL TO BE PROVIDED IN DUCT FOR ACCESS TO FUSIBLE LINK AND FOR INSPECTION AND MAINTENANCE. VERIFY THE EXACT LOCATION OF ALL RATED WALLS, TUNNELS AND CEILINGS WITH ARCHITECTURAL DRAWINGS. COMBINATION FIRE/SMOKE DAMPERS TO BE INSTALLED IN ALL SMOKE WALLS AND RATED EGRESS WAYS.

O. COORDINATE LOCATION AND MOUNTING TYPE OF ALL CEILING AIR DEVICES IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLANS.

P. INSTALL CLEAN SET OF FILTERS THROUGHOUT AT COMPLETION OF PROJECT. ANY UNITS THAT ARE OPERATED DURING CONSTRUCTION SHALL HAVE FILTER MEDIA (FIBERBOND DUAL-PLY DUST/LOK MEDIA) PLACED OVER THE EXTERIOR OF RETURN AIR GRILLES. MEDIA SHALL BE CHANGED AS FREQUENTLY AS REQUIRED TO KEEP DUCTWORK CLEAN. WHEN RETURN AIR FILTERS ARE LOCATED AT UNIT, PROVIDE INSULATED FILTER RACK SUITABLE FOR 2" THICK, FACTORY STANDARD FILTER SIZES, THAT IS AIRTIGHT WITH HINGED ACCESS DOOR AND LATCH, UNLESS SUCH A RACK IS INTEGRAL TO UNIT CONSTRUCTION.

Q. ALL MECHANICAL EQUIPMENT OR GROUPS OF EQUIPMENT SERVING A COMMON AREA AND DISCHARGING OVER 200 CFM OR SERVING EGRESS PATHWAYS SHALL HAVE SMOKE DETECTORS LOCATED IN RETURN AND DISCHARGE AIR DUCTS, AS REQUIRED BY CODE AND LOCAL AHJ. THE MECHANICAL CONTRACTOR IS TO PROVIDE, INSTALL AND WIRE SMOKE DETECTORS COMPLETE WITH REMOTE TEST SWITCH INDICATOR UNLESS THE BUILDING HAS A FIRE ALARM SYSTEM. WHEN BUILDING HAS A FIRE ALARM SYSTEM THE ELECTRICAL/FIRE ALARM CONTRACTOR IS TO PROVIDE AND WIRE THE DUCT DETECTORS BACK INTO THE FIRE ALARM CONTROL PANEL AND PROVIDE A RELAY AT THE UNIT FOR LOCAL SHUTDOWN. MECHANICAL CONTRACTOR (CONTROLS CONTRACTOR) IS TO WIRE HIS CONTROL CIRCUIT THROUGH THE RELAY CONTACTS. REFERENCE MECHANICAL AND ELECTRICAL GENERAL NOTES, SCHEDULES, PLANS AND SPECIFICATIONS FOR MORE INFORMATION.

R. PROVIDE ALL APPROPRIATE TOOLS, WRENCHES, KEYS, ETC. AS REQUIRED FOR ACCESS AND OPERATION OF VALVES, COVERS, ETC.

S. SEAL AROUND ALL DUCTWORK AND PIPING AT PENETRATIONS THROUGH SOUND WALLS WITH ACOUSTICAL SEALANT.

BB. ALL DUCTS 30" AND LARGER IN ANY DIMENSION TO HAVE DUCTMADE FITTINGS.

CC. PROVIDE ALL ACCESS DOORS SHALL BE INSTALLED IN EASILY ACCESSIBLE LOCATIONS. RELOCATE ANY ACCESS DOOR THAT IS NOT INSTALLED IN THIS MANNER. THIS SHALL BE DONE AT NO ADDITIONAL COST TO OWNER. INSTALL MINIMUM 12" x 12" HINGED ACCESS DOORS WITH CAM LOCKS AT THE END OF ALL DUCT RUNS, AT 20' INTERVALS ALONG LENGTH OF RUN, AND ON EACH SIDE OF ELBOWS WITH TURNING VANES. REFERENCE SPECIFICATIONS FOR MORE INFORMATION.

DD. COORDINATE LOCATION OF DUCTWORK WITH LOCATION AND DEPTH OF ALL LIGHT FIXTURES PRIOR TO INSTALLATION.

EE. MECHANICAL CONTRACTOR TO HAVE STAMPED AND REVIEWED DUCT SHOP DRAWINGS PRIOR TO INSTALLATION OF ANY DUCTWORK IN FIELD.

FF. ABSOLUTELY NO PIPING OR DUCTWORK CAN BE ROUTED ABOVE ELECTRICAL PANELS, GEAR OR TRANSFORMERS. THE ONLY HVAC, PLUMBING, SPRINKLER PIPING OR DUCTWORK THAT CAN ENTER AN ELECTRIC ROOM ARE THOSE SPECIFICALLY SERVING THAT ROOM. THESE SERVICES CAN ONLY ENTER INTO ELECTRIC ROOM ABOVE ENTRY DOOR.

HH. SEAL AROUND ALL DUCTWORK AND PIPING AT PENETRATIONS THROUGH RATED WALLS WITH FIRE SEALANT. ALL PENETRATIONS THROUGH RATED WALLS ARE TO BE SEALED ACCORDING TO THE FIRE SEALANT MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUBMIT ON U.L. SYSTEM TO BE USED FOR EACH TYPE OF PENETRATION. POST A COPY OF INSTALLATION INSTRUCTIONS AT JOB SITE ACCESSIBLE TO ALL WORKERS PERFORMING WORK.

II. ALL OPENINGS OF DUCTWORK AND MECHANICAL EQUIPMENT MUST BE COVERED WITH PLASTIC AND TIGHTLY SEALED TO PREVENT DUST AND CONSTRUCTION DEBRIS FROM ENTERING SYSTEMS. THIS INCLUDES EQUIPMENT AND DUCTWORK STORED ON SITE. IF THE MECHANICAL EQUIPMENT IS OPERATED PRIOR TO ACCEPTANCE OF THE BUILDING BY OWNER, ALL OUTLET AND INLETS OF THE SYSTEM MUST BE PROTECTED WITH ROLLED FILTER MEDIA EQUAL TO (FIBERBOND DUAL-PLY DUST/LOK MEDIA). UNITS MUST BE SHUT DOWN WHEN PAINTING, SANDING AND SIMILAR CONSTRUCTION OPERATIONS ARE BEING PERFORMED. SYSTEMS THAT ARE OPERATED DURING CONSTRUCTION MUST BE CLEANED TO NEW CONDITION BEFORE FINAL PAYMENT WILL BE RENDERED. ITEMS TO BE CLEANED INCLUDE: WHOLE DUCT SYSTEM, AIR DEVICES, BLOWERS, MOTORS, UNIT CASING, EVAPORATOR COILS, CONDENSER COILS AND ALL OTHER COMPONENT EFFECTED BY THE OPERATION OF THE SYSTEMS.

JJ. ALL SUPPLY BRANCH DUCTS ARE TO HAVE BALANCING DAMPERS WITH MANUAL LOCKING QUADRANT OPERATORS. PROVIDE STAND-OFF BRACKETS EQUIVALENT TO INSULATION THICKNESS PROVIDE BALANCING DAMPERS IN OTHER DUCT SYSTEMS AS REQUIRED TO PROPERLY BALANCE SYSTEMS. SINGLE BLADE DAMPERS ARE ACCEPTABLE IN DUCTS 14" ROUND OR 14" TALL. LARGER DUCTS TO HAVE MULTIPLE BLADE DAMPERS. ALL DAMPER BLADES AND HARDWARE ARE TO BE FABRICATED OF SUFFICIENT GAGE AND HAVE REINFORCEMENTS AS REQUIRED TO PREVENT VIBRATION.

KK. OUTSIDE AIR TO THE BUILDING IS CALCULATED BASED ON THE USE OF BI-POLAR ION GENERATOR AIR PURIFIERS FOR REDUCING INDOOR CONTAMINATES TO ACCEPTABLE LEVELS, IN ACCORDANCE WITH SECTION 403.3 OF THE INTERNATIONAL MECHANICAL CODE. THE OUTDOOR AIR QUANTITIES INDICATED IN THE SCHEDULES EXCEEDS THE MINIMUM REQUIRED OUTDOOR AIR PER SECTION 403.3, AND PROVIDES FOR BUILDING PRESSURIZATION AND MAKEUP FOR BUILDING EXHAUST.

LL. IF THERE IS NO T&B SPECIFIED AND T&B IS NOT SHOWN TO BE BY OTHERS THEN CONTRACTOR IS TO SET ALL CFM/GPM FLOW RATES USING TAB PROCEDURES. WHEN T&B IS DONE BY OTHERS (SUBCONTRACTED BY MECHANICAL OR HIRED BY OTHERS), MECHANICAL CONTRACTOR IS TO WORK WITH AND FACILITATE TAB WORK AND MAKE ALL REPAIRS ETC AS NOTED BY TAB FIRM PROMPTLY SO THAT T&B CAN BE SUCCESSFULLY COMPLETED.

MARK	MODEL	CFM	S.P.	RPM	DRIVE	H.P.	VOL/1PH	OR AMPS	ACCESSORIES
EF-1	SP-ASO	75	.05	700	DIRECT	.025	115/1	18W	12.6
EF-2	SP-ASO	75	.05	700	DIRECT	.025	115/1	18W	12.6
TF-1	CBF-205	300	.04	2126	DIRECT	.16	115/1	120W	16

STANDARD NOTES - APPLIES TO ALL FANS

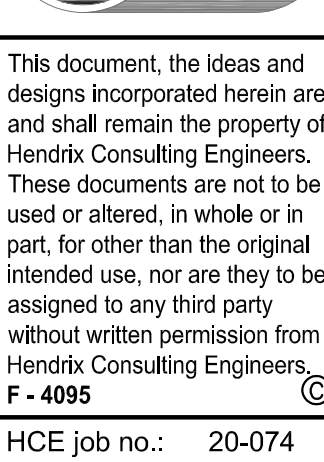
- BALANCE ALL FANS TO ACTUAL CFM SHOWN ON FLOOR PLANS.
- BEE SCREEN.
- FANS INSTALLED ON METAL STANDING SEAM ROOFS: ROOF CURB IS TO BE FURNISHED, INSTALLED, FLASHED AND COUNTER FLASHED BY ROOFING CONTRACTOR. MECHANICAL CONTRACTOR IS TO COORDINATE SIZE AND LOCATION.
- FANS TO EXTEND A MINIMUM OF 12" ABOVE FINISHED ROOF IN SHORT SIDE.
- FANS INSTALLED ON BUILT-UP ROOF: ROOF CURB IS TO BE FLASHED AND COUNTER FLASHED BY ROOFING CONTRACTOR. MECHANICAL CONTRACTOR IS TO FURNISH AND INSTALL ROOF CURB AND COORDINATE LOCATION. CURBS TO EXTEND A MINIMUM OF 12" ABOVE FINISHED ROOF ON SHORT SIDE.
- FAN FACTORY DISCONNECT.
- PROVIDE ALL EXHAUST FANS (EXCEPT FOR GREASE EXHAUST FANS) AND MAKE-UP AIR FANS WITH A PARALLEL BLADE DAMPER WITH HEAVY DUTY MOTORIZED ACTUATOR (MATCH FAN VOLTAGE UNLESS SPECIFICALLY NOT OTHERWISE SPECIFIED). CONTROL CABLE TO BE PROVIDED BY THE ACTUATOR. IN THE EVENT OF A POWER FAILURE, THE BLADE SHALL REMAIN ONLY IF RECOMMENDED BY MANUFACTURER ON LARGER FANS. PROVIDE TRANSFORMER IF REQUIRED. MOTORIZED DAMPER NOT REQUIRED IF THE FAN HAS AN INTEGRAL BACKDRAFT DAMPER.
- POWDER COATED METAL IS NOT ALLOWED TO BE USED IN USE OF GALVANIZED UNLESS SPECIFICALLY SCHEDULED.
- EXHAUST FANS / OUTLETS TO BE LOCATED A MINIMUM OF 10' AWAY FROM OUTSIDE AIR INTAKES OR AS REQUIRED BY LOCAL CODES.

ACCESSORIES AND NOTES (NOT TO PROVIDE ACCESSORIES LISTED IN SCHEDULE ABOVE)

- UPBLAST GREASE FAN ACCESSORIES: FAN TO BE UL AND UL LISTED FOR GREASE REMOVAL, HEAT BAFFLE, BIRD GUARD, HINGE KIT, DRAIN CONNECTION, GREASE TRAP AND VENTED CURB EXTENSION MUST MEET THE NFPA 96 REQUIREMENT FOR DISCHARGE TO THE OUTDOOR.
- KITCHEN SUPPLY FAN GREENHECK ARRANGEMENT "BD" ACCESSORIES: EXHAUST FAN AND SUPPLY FAN TO BE MOUNTED ON SEPARATE CURBS AND PROVIDE MOPPED IN EQUIPMENT SUPPORT RAIL WITH GALVANIZED UNSTRUT SUPPORT WITH HOOD AND MOTORIZED INTAKE DAMPER, SPACER SECTION TO MAINTAIN 10 FEET SEPARATION FROM EXHAUST FAN), FILTER SECTION THAT ACCOMMODATES 2" FILTERS, WEATHER HOOD, SUPPLY FAN INTERLOCKED TO RUN WITH KITCHEN EXHAUST FAN, KITCHEN EXHAUST FAN IS TO RUN AND SUPPLY FAN IS TO GO OFF IN THE EVENT THAT A FIRE IS DETECTED. FURNISH WITH REMOTE OR FAN CASING MOUNT PREWIRED KITCHEN FAN CONTROL, CENTER WITH STARTERS, FAN ELECTRICALS, COOL, LIGHTING, AND SINGLE POINT ELECTRICAL CONNECTION. ELECTRICAL CONTRACTOR MAKE ALL CONTROL AND LINE VOLTAGE TERMINATIONS AND FEED THROUGH CONNECTIONS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. 120 VOLT CONTROL VOLTAGE FOR HOOD FAN PACKAGE IS TO BE OBTAINED FROM HOOD LIGHTING OR GRCIT. PROVIDE HOOD MOUNTED SWITCH FOR CONTROL OF EXHAUST AND SUPPLY FANS OR AS DIRECTED BY OWNER.
- DIRECT FIRED GAS HEAT.
- ELECTRIC HEAT.
- PERFORATED BAFFLE INSTALLED AT INLET.
- GRAVITY BACK DRAFT DAMPER.
- RADIATION DAMPER (CEILING MOUNTED FANS).
- COMBINATION NEOPRENE / SPRING VIBRATION ISOLATION.
- INLET GUARD.
- BELT GUARD.
- MAGNETIC MOTOR STARTER.
- SWITCHED WITH LIGHTS BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE ALL RELAYS AND APPURTENANCES.
- SWITCHED BY SPRING WOUND TIMER (1 HR MAX) PROVIDED BY ELECTRICAL CONTRACTOR. LOCATE NEXT TO ROOM LIGHT SWITCH UNLESS OTHERWISE NOTED.
- SWITCHED BY WALL SWITCH WITH PILOT LIGHT BY ELECTRICAL CONTRACTOR. LOCATE NEXT TO ROOM LIGHT SWITCH UNLESS OTHERWISE NOTED.
- SWITCHED BY HOOD MOUNTED SWITCH WITH PILOT LIGHT BY ELECTRICAL CONTRACTOR.
- SWITCHED BY THERMOSTAT. THERMOSTAT PROVIDED BY MECHANICAL CONTRACTOR. INSTALLED BY ELECTRICAL CONTRACTOR.
- INTERLOCKED BY ENERGY MANAGEMENT SYSTEM.
- 120V/1PH MOTORIZED DAMPER FOR INLINE FAN TIED IN TO FAN POWER.
- EXPLOSION PROOF FAN, WIRE TO RUN CONTINUOUSLY.
- PERFORATED BAFFLE INSTALLED AT INLET.
- INTERLOCKED WITH DISHWASHER.
- DROYER BOOSTER FAN. PROVIDE ALL CONTROLS AND INTERLOCKING WIRING REQUIRED FOR A COMPLETE OPERABLE SYSTEM.
- SIDEWALL PROPELLER FAN PROVIDE WITH HOUSING, MOTORIZED BACKDRAFT DAMPER, INTEGRAL DISCONNECT, MOTOR SIDE GUARD AND TRANSITIONS AS REQUIRED TO CONNECT TO WALL LOUVER.
- FAN TO BE CONTROLLED BY CARBON MONOXIDE (CO) AND DIESEL (NO2) SENSORS, PROVIDE MULTI GAS DETECTION SYSTEM AND ALL SENSORS REQUIRED. IN ADDITION PROVIDE A SPRING WOUND TIMER TO MANUALLY OPERATE THE FAN.

MARK	NECK SIZE	FRAME SIZE	FRAME TYPE	VOLUME DAMPER	SUPPLY	RETURN	EXHAUST	MODEL	FLEX SIZE	MAXIMUM CFM
	6 x 6	15 x 15	SURFACE	—	●	—	—	PRICE MODEL SMD	6"φ	100
	12 x 12	18 x 18	SURFACE	—	●	—	—	PRICE MODEL SMD	8"φ	220
	12 x 12	18 x 18	SURFACE	—	●	—	—	PRICE MODEL SMD	10"φ	350
	8 x 8	10 x 10	SURFACE	—	—	●	—	PRICE MODEL 630	9"φ	250
	12 x 12	14 x 14	SURFACE	—	—	●	—	PRICE MODEL 630	12"φ	450
NOTES: - COORDINATE EXACT LOCATION OF DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLAN. - ALL SUPPLY DIFFUSERS SHALL BE 4-WAY THROW UNLESS NOTED OTHERWISE. - ALL FLEX SHALL BE SIZED AS SCHEDULED UNLESS NOTED OTHERWISE. - ALL DIFFUSERS SHALL BE WHITE UNLESS NOTED OTHERWISE. COORDINATE EXACT COLOUR FINISH WITH ARCHITECT. - VERIFY FRAME TYPE WITH ACTUAL CEILING TYPE PRIOR TO PURCHASE OF AIR DEVICES. - ALL VOLUME DAMPERS SHALL BE OPPOSED BLADE TYPE. - RUN-OUTS AND DROPS FROM R/A MAIN TRUNKS SHALL BE AS FOLLOWS: UP TO 250 CFM USE 10" DIAMETER OR 10" x 8"; 251 CFM TO 450 CFM USE 12" DIAMETER OR 12" x 10"; 451 CFM TO 700 CFM USE 14" DIAMETER OR 12" x 12"; 701 CFM TO 1000 CFM USE 16" DIAMETER OR 14" x 16"; 1001 CFM TO 1400 CFM USE 18" DIAMETER OR 16" x 18". UNLESS SHOWN OTHERWISE. - INSULATE BACKS OF ALL AIR DEVICES. - PROVIDE PRICE PLASTER FRAME FOR ALL AIR DEVICES LOCATED IN GYP OR PLASTER CEILINGS. - AIR DEVICES LOCATED IN DAMP AREAS (SHOWERS/LOCKER ROOMS/TRAINING ROOMS) ARE TO BE OF THE SAME SIZE AND TYPE AS SHOWN ON THE AIR DEVICE SCHEDULE BUT MUST BE OF ALL ALUMINUM CONSTRUCTION. ALL DEVICES SCHEDULED TO BE ALUMINUM MUST BE ALUMINUM NO MATTER WHERE THEY ARE LOCATED. - TRANSITION TO AIR DEVICE NECK SIZE AS REQUIRED. - ALL LAVATORY AIR DEVICES ARE TO BE CONNECTED WITH FLEX DUCT. PROVIDE WITH MINIMUM 3" HIGH ROUND NECK OR SQUARE TO ROUND ADAPTER WITH 3" HIGH NECK FOR PROPER CONNECTION OF FLEX DUCT (SIZED PER SCHEDULE) TO AIR DEVICE. * PROVIDE INACTIVE SECTIONS OF LINEAR SLOTS WITH BLANK-OFF PLATES. * PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE CONTINUOUS APPEARANCE.										

M101
SCHEDULES NOTES
AND LEGENDS -
MECHANICAL



VARIABLE REFRIGERANT VOLUME - AIR-COOLED HEAT PUMP CONDENSING UNIT SCHEDULE																				
TAG	BASIS OF DESIGN (DAIKIN)	NOMINAL TONNAGE	DESCRIPTION	COOLING CAPACITY		HEATING CAPACITY		ELECTRICAL			EFFICIENCY			DIMENSIONS		NOTES				
				BTU/h	AMBIENT DESIGN (*F DB)	BTU/h	AMBIENT DESIGN (*F DB / WB)	VOLTAGE-PHASE	MCA	MOCP	EER	IEER	COP 47	(WxHxD) (inch)	WEIGHT (lbs)					
HP-1	RXYQ168XATJA	14	Air cooled heat pump (1)	159,887	105.0	127,794	23.0 / 22.0	208V - 230V 3ph	55.1	60.0	10.6 / 10.6	22.6 / 19.8	3.4 / 3.2	48.9 x 66.7 x 30.2	694.5					
HP-2	RXYQ168XATJA	14	Air cooled heat pump (1)	159,887	105.0	127,794	23.0 / 22.0	208V - 230V 3ph	55.1	60.0	10.6 / 10.6	22.6 / 19.8	3.4 / 3.2	48.9 x 66.7 x 30.2	694.5					
AIR HANDLER SCHEDULE																				
MARK	AREA SERVED	AIR DATA					COOLING DATA						HTG.- Heat Pump		ELECTRICAL DATA				UNIT DATA	NOTES
		TOT. CFM	OA CFM	E.S.P.	HP	CONFIGURATION	ENTERING		SCHEDULE		DAT		MCA	MOC	Heatin Cap BTU/H	VOLT/PH	MAKE	MODEL	WEIGHT (LBS)	
							D.B.	W.B.	SENS.	TOT.	D.B.	W.B.								
AHU-1	ELECTRICAL ROOM	4688	500	1.5	3.8	VERTICAL	78	65	114.7	159.9	55.0	54.0	11.5	20.0	127.7	208V/3PH	DAIKIN	Daikin/MWVU	1057	1,3
AHU-2	ELECTRICAL ROOM	4688	500	1.5	3.8	VERTICAL	78	65	114.7	159.9	55.0	54.0	11.5	20.0	127.7	208V/3PH	DAIKIN	Daikin/MWVU	1057	1

VRF EQUIPMENT NOTES
THESE NOTES APPLY TO ALL VRF (VARIABLE REFRIGERANT FLOW) EQUIPMENT, INCLUDING BUT NOT LIMITED TO THE FOLLOWING TYPES OF EQUIPMENT: SINGLE OUTDOOR VRF UNIT WITH MULTIPLE INDOOR UNITS, SINGLE VRF OUTDOOR UNIT WITH A SINGLE INDOOR UNIT, HEAT RECOVERY SYSTEMS, HEAT PUMP VRF SYSTEMS.
ALL SPLIT SYSTEMS ON THIS PROJECT ARE TO USE R410A REFRIGERANT
STANDARD NOTES A. SOME UNITS SHOWN ON THE MASTER SCHEDULE(S) MAY NOT BE USED ON THIS JOB. B. SEE SPECIFICATIONS FOR STANDARD ACCESSORIES, FEATURES AND CONTROLS REQUIRED. C. ALL GROSS CAPACITIES LISTED ARE AT STANDARD ARI CONDITIONS (80/67/95) WITH STANDARD AIR FLOW. D. BALANCE AIRFLOW FOR EACH SYSTEM TO PROVIDE CFM AS SHOWN ON PLANS. E. HEAT PUMP AND VRF SYSTEMS MUST BE ABLE TO HEAT DOWN TO 10 DEGREES F AMBIENT. F. HEAT PUMP AND VRF SYSTEMS MUST BE ABLE TO DEFROST WITHOUT ELECTRIC BACK UP HEAT. G. PROVIDE SINGLE POINT POWER CONNECTION. H. PROVIDE BACNET SERVER GATEWAY TO INTERFACE WITH DDC CONTROL SYSTEM. COORDINATE ALL REQUIREMENTS WITH CONTROLS CONTRACTOR AND ASSIST IN INTEGRATION.
OUTDOOR UNIT NOTES: A. PROVIDE FIELD INSTALLED METAL HAIL GUARD. STANDARD FACTORY MESH GUARD IS NOT ACCEPTABLE. B. UNITS SHALL MEET OR EXCEED MIN SCHEDULED IEER VALUES PER AHRI 1230. C. PROVIDE WITH INVERTER DRIVE COMPRESSOR, MUST UNLOAD TO 14% OF FULL RATED CAPACITY. D. ALL CONDENSING UNITS TO BE CAPABLE OF OPERATING AT 105°F AMBIENT. E. WHEN POSSIBLE, UNITS ARE TO BE LOCATED SO THAT ONE UNIT DOES NOT DISCHARGE TOWARD THE INLET OF ANOTHER UNIT. WHEN THIS IS NOT POSSIBLE, PROVIDE THE ACCESSORY THAT DIVERTS THE DISCHARGE AIR UP AWAY FROM THE INLET OF ANOTHER UNIT. F. SECURE UNIT TO SLAB OR ROOF SUPPORT AS SHOWN IN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND OR AS SHOWN ON DETAIL SHEETS. G. PROVIDE WITH DAIKIN AHU INTEGRATION KIT EXPANTION VALVE AND CONTROL BOX.
INDOOR FAN COIL (AHU) NOTES: A. PROVIDE FACTORY MOUNTED/FIELD INSTALLED CONDENSATE PUMP FOR EACH INDOOR UNIT AS NEEDED. A GRAVITY DRAIN CONDENSATE SYSTEM IS PREFERRED AND SHOULD BE PROVIDED FOR ALL UNITS IF POSSIBLE. B. PROVIDE AHU WITH ECM MOTOR 0-10 V DC INPUT. C. PROVIDE ELECTRONIC TXV'S ON ALL SPLIT SYSTEM UNITS AT INDOOR COIL. D. PROVIDE FIELD MOUNTED 2" FILTER RACK ACCESSORY FOR MULTI-POSITION AIR HANDLING UNITS. E. AIR PURIFICATION: PROVIDE GLOBAL PLASMA SOLUTIONS, ONE(1) BI-POLAR ION GENERATOR MODEL NUMBER - GPS-IMOD 18" FOR ALL UNITS LISTED IN SCHEDULE. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. POWER SUPPLY IS 24 VAC AT 12VA. COORDINATE ELECTRICAL REQUIREMENTS WITH UNIT MANUFACTURER PRIOR TO INSTALLING. PROVIDE LARGER UNIT TRANSFORMER IF REQUIRED. CONTACT HTS FOR PRICING. 512-745-0555 F. UNIT TO INCLUDE STANDARD DISPOSABLE FILTER. MERVE 8 OR GREATER. G. PROVIDE UNIT WITH 2" R13 DOUBLE WALL CASING.
CONTROLS: A. PROVIDE BRC1E73 NAVIGATION STAT FOR ALL FCU WITH AUTO CHANGE OVER AND DUAL HEAT AND COOL SET POINTS. B. PROVIDE I-TOUCH MANAGER VRF CENTRAL TOUCH SCREEN CONTROLLER. C. PROVIDE DRY CONTACT CONTROL COMPONENTS AS NEEDED TO ACCOMPLISH SEQUENCE OF OPERATION. D. THE DDC CONTROL CONTRACTOR IS TO FULLY COORDINATE WITH ALL EQUIPMENT MANUFACTURERS TO PROVIDE A COMPLETE AND OPERABLE SYSTEM THAT MEETS THE INTENT OF THE PLANS, SPECIFICATIONS AND HUTTO'S LATEST STANDARD FOR THE CONTROL SYSTEM. THE CONTROL SYSTEM PROVIDED BY THE VRF MANUFACTURER IS TO BE CONNECTED TO THE DDC SYSTEM THROUGH BAC NET. VRF MANUFACTURE TO PROVIDE ANY REQUIRED INTIGRATION PANEL. THE UNIT MANUFACUTERURE AND THE CONTROL SYSTEM MANUFACTURER ARE TO PROVIDE PROVIDE ALL COMPONENTS NECESSARY FOR INTIGRATION. THE DDC CONTRACTOR IS TO PROVIDE DISCHARGE AIR SENSORS FOR ALL AIR HANDLING UNITS SO THAT THE DISCHARGE AIR TEMPERATURE CAN BE DISPLAYED IN THE DDC GRAPHICS (AND ANY OTHER COMPONENTS NEEDED TO PROVIDE SPECIFIED ITEMS) REFERENCE SPECIFICATIONS FOR MORE INFORMATION.
WARRANTY: A. PROVIDE 10 YEAR PARTS WARRANTY FOR THE INDOOR AND OUTDOOR UNITS, THERMOSTATS, AND COMPRESSORS. B. PROVIDE 10 YEAR COMPRESSOR WARRANTY. C. CONTRACTOR PROVIDES STANDARD 1 YEAR LABOR WARRANTY FOR FIRST YEAR. FOR PRICING CALL DXS 512-940-3435
MECHANICAL / ELECTRICAL COORDINATION NOTES (BY CONTRACTOR) A. THE MECHANICAL CONTRACTOR IS TO USE THE "MECH/ ELECT COORDINATION SHEET" FOUND IN SPECIFICATION SECTION 20 00 00 TO COORDINATE THE ELECTRICAL REQUIREMENTS OF THE MECHANICAL EQUIPMENT WITH THE ELECTRICAL CONTRACTOR. THIS APPLIES TO ALL MECHANICAL EQUIPMENT NOT JUST VRF EQUIPMENT. 1) THE MECHANICAL CONTRACTOR IS TO SUBMIT A COPY OF THE COMPLETED COORDINATION SHEET THAT HAS BEEN REVIEWED AND SIGNED BY THE ELECTRICAL CONTRACTOR 2) MECHANICAL EQUIPMENT SUBMITTAL WILL BE REJECTED AND RETURNED IF SUBMITTED WITHOUT A COORDINATION SHEET THAT HAS BEEN SIGNED BY THE ELECTRICAL CONTRACTOR. A COPY OF THE COORDINATION SHEET SHOULD BE ATTACHED TO EACH SEPARATE MECHANICAL EQUIPMENT SUBMITTAL. 3) THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ANY COST ASSOCIATED WITH CHANGES IN ELECTRICAL REQUIREMENTS IF ALTERNATE EQUIPMENT (EQUIPMENT NOT SCHEDULED ON PLANS) IS PROVIDED ON THIS PROJECT. THIS INCLUDES EQUIPMENT THAT MAY BE LISTED AS EQUAL OR AS AN APPROVED ALTERNATE. 4) THE ELECTRICAL CONTRACTOR IS TO VERIFY THAT THE SCHEDULED ELECTRICAL VOLTAGE AND PHASE IS AVAILABLE ON SITE. 5) THE ELECTRICAL CONTRACTOR IS TO PROVIDE THE MOCP (MAXIMUM OVER CURRENT PROTECTION) LISTED ON THE COORDINATION SHEET, AS WELL AS WIRE SIZE WITH AMPACITY EQUAL TO OR GREATER THAN THE LISTED MOCP. 6) AN APPROVED SUBMITTAL DOES NOT RELEASE THE CONTRACTORS FROM COORDINATING THE MECHANICAL EQUIPMENT AND ASSOCIATED ELECTRICAL SERVICE TO PROVIDE THE OWNER WITH A COMPLETE AND OPERABLE SYSTEM.
ACCESSORIES AND NOTES (ONLY PROVIDE ACCESSORIES LISTED IN THE SCHEDULE UNDER ACCESSORIES AND NOTES) 1. DUCT SMOKE DETECTOR SUPPLY (AND RETURN) AIR DUCT PROVIDED AND WIRED BY FIRE ALARM CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. FIRE ALARM CONTRACTOR SHALL PROVIDE A SHUTDOWN RELAY AND MAKE CONNECTIONS FROM DETECTOR TO RELAY. CONTROLS CONTRACTOR SHALL PROVIDE WIRE AND CONNECTIONS FROM CONTROL RELAY TO AIR HANDLING UNIT. IF A FIRE ALARM SYSTEM IS NOT PROVIDED, THE MECHANICAL CONTRACTOR IS TO PROVIDE AND INSTALL DUCT DETECTOR, SHUT DOWN RELAY, REMOTE TEST SWITCH AND AUDIBLE/VISUAL INDICATOR, MOUNTED NEXT TO THERMOSTAT. 2. PROVIDE UNIT WITH THERMOSTAT HAVING TWO REMOTE SENSORS EACH HAVING 50% AUTHORITY EACH. 3. PROVIDE CO2 SENSOR MOUNTED 18" FROM UNIT THERMOSTAT/SENSOR TO MONITOR SPACE CONDITIONS. OUTSIDE AIR DAMPER IS TO CLOSE WHEN UNIT IS OFF AND OPEN TO MAXIMUM O/A POSITION (100% OF RAW O/A CFM SCHEDULED) ANY TIME SPACE IS OCCUPIED AND CO2 LEVEL IS ABOVE 800 PPM. 4. PROVIDE LABOR WARRANTY FOR YEARS 2-5. FOR PRICING CALL DXS 512-940-3435

MOTORIZED DAMPERS						
MOTORIZED DAMPER (MD): GREENHECK MODEL WD-300, VERTICAL MOUNT EXHAUST DAMPER WITH AN EXTERNAL MOUNT FLANGE, 18 GAGE GALVANIZED STEEL FRAME, .025 ROLL FORMED ALUMINUM BLADES, 115/230 VOLT MOTOR PACK.						
MARK NO.	SIZE (W X H)					
MD - 1	43" x 31"					
LOUVERS						
LOUVER (L): GREENHECK MODEL ESD-403, 4 INCH DEEP EXTRUDED ALUMINUM CONSTRUCTION. VERIFY FINISH WITH ARCHITECT PRIOR TO ORDERING. COORDINATE FRAME TYPE WITH ARCHITECT AND BUILDING CONSTRUCTION. PROVIDE WITH 1/8" X 1/8" GALVANIZED HARDWARE CLOTH BEE SCREEN.						
MARK NO.	SIZE (W X H)	CFM	VELOCITY FPM	PRESSURE DROP	WATER PENETRATION	STORM/WIND RESISTANT
L-1 (1)	12" x 12"	150	459	.03	-	-
L-2	14" x 13"	300	800	.11	-	-
(1) NO DAMPERS						

REFERENCE GENERAL NOTES ON SHEETS M101, P101, AND E101 FOR ADDITIONAL INFORMATION

This document, the ideas and designs incorporated herein are and shall remain the property of Hendrix Consulting Engineers. These documents are not to be used or altered, in whole or in part, for other than the original intended use, nor are they to be assigned to any third party without written permission from Hendrix Consulting Engineers. P - 4095

HCE job no.: 20-074

pfluger

office: 512.476.4040 | fax: 512.476.4289
209 E. Riverside Drive | Austin, Texas 78704

pflugarchitects.com

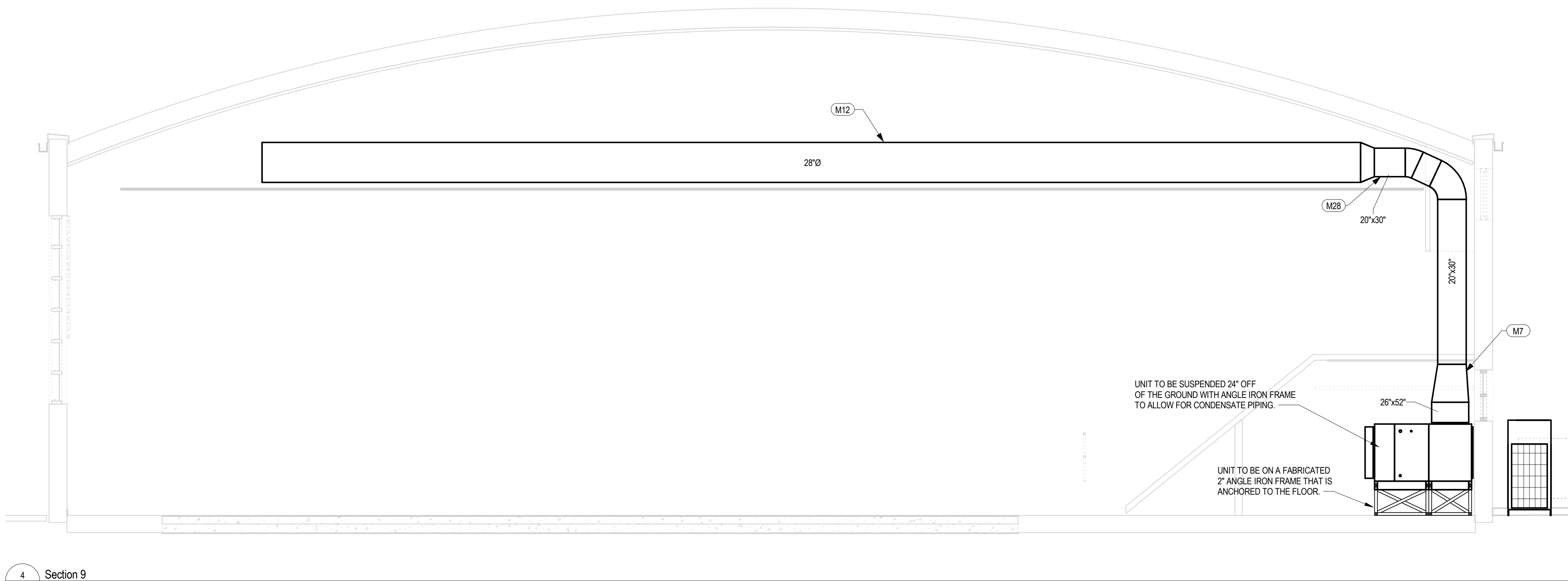
HUTTO ISD GYM RENOVATION

HUTTO ISD

200 COLLEGE STREET
HUTTO, TEXAS 78634

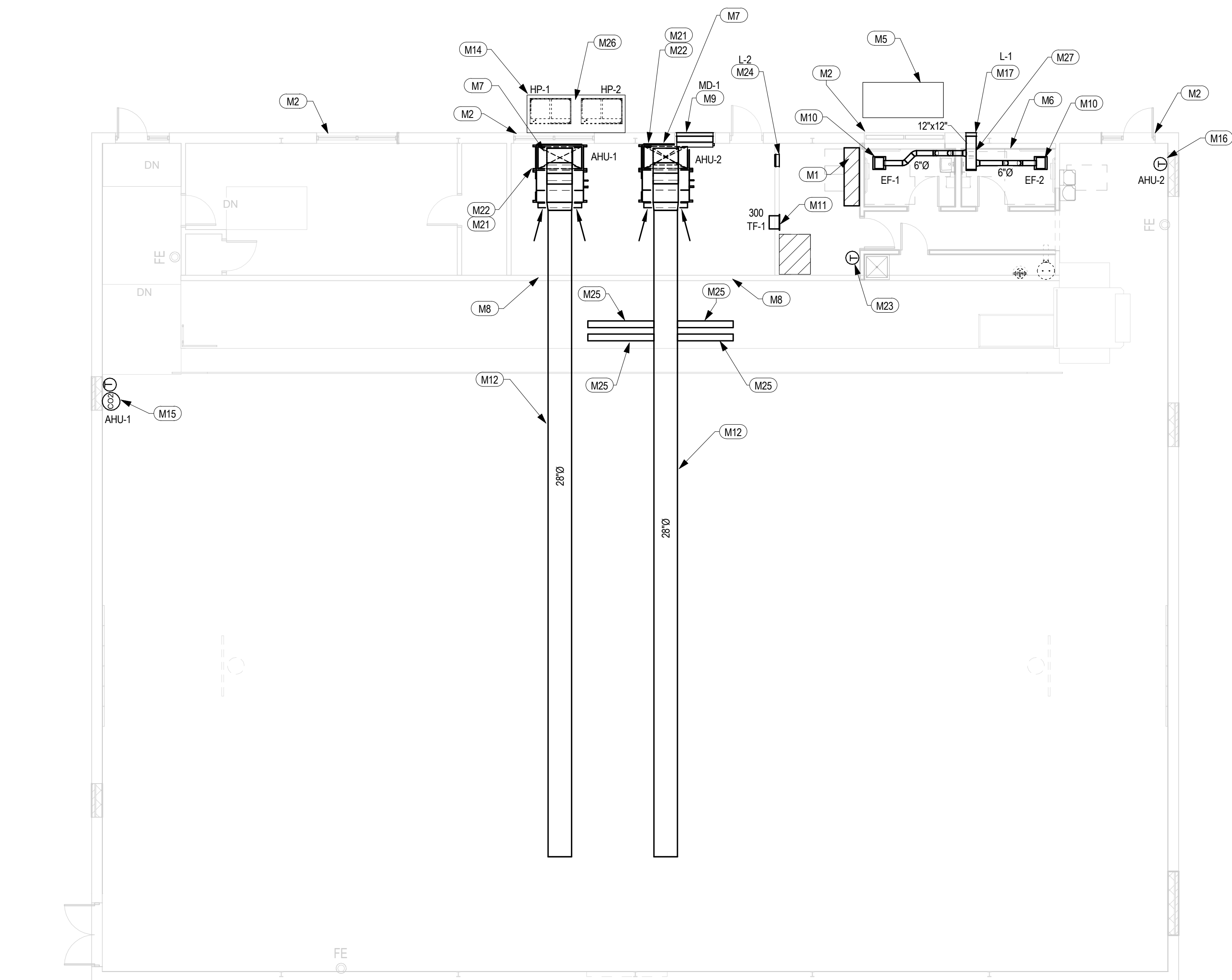
BID SET
M102
SCHEDULES -
MECHANICAL

PROJECT NO. 20-074
DATE: 3/30/2021
DRAWN BY: Author CHECKED BY: Checker
REVISIONS:
Date Description



4
M201 Section 9
1/4" = 1'-0"

PER DISTRICT INSTRUCTION, THERE WILL NOT BE A MINI SPLIT IN THE TECHNOLOGY ROOM. TRANSFER FAN IS ONLY FOR TEMPERATURE CONTROL.



1
M201 LEVEL 1 HVAC PLAN
1/8" = 1'-0"

MECHANICAL KEYED NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

- M1 DO NOT ROUTE ANY DUCTWORK ABOVE THIS AREA.
- M2 EXISTING LOUVERS TO BE REMOVED AND REPLACE WITH WINDOWS PER ARCHITECT. SEE ARCHITECTURAL SHEETS FOR MORE INFORMATION.
- M5 EXISTING HOUSE KEEPING PAD TO BE DEMOLISHED.
- M6 RESTROOM TO HAVE EXHAUST ONLY.
- M7 WHEN BRINGING DUCT UP THRU BLEACHERS EITHER SPLIT MAIN DUCT TO FIT BETWEEN SUPPORTS AND RECONNECT INTO 1 (ONE) MAIN DUCT OR RE FRAME THE BLEACHERS TO ACCOMMODATE THE SIZE OF THE DUCT.
- M8 EXISTING FRAMED OPENING TO REMAIN FOR RETURN AIR PATH UNDER BLEACHERS.
- M9 OUTSIDE AIR INTAKE LOUVER TO TAKE UP FULL FRAMED WINDOW OPENING REFERENCE ARCHITECTURAL FOR EXACT LOCATION. MECHANICAL DAMPER TO BE CONTROLLED BY CO2 SENSOR IN GYM. BOTTOM OF PLENUM TO BE WELDED WATER TIGHT AND SLOPED TO DRAIN TOWARDS EXTERIOR.
- M10 RESTROOM EXHAUST FAN TO BE CONTROLLED THRU THE LIGHTS. FANS SHOULD BE ON WHEN THE LIGHTS ARE ON.
- M11 POWERED TRANSFER/EXHAUST RETURN AIR FAN TO BE CONTROLLED BY BOTH THE THERMOSTAT AND THE VARIABLE SPEED CONTROLLER. THEY ARE TO BE WIRED IN SERIES SO THAT THE T-STAT TURN THE FAN ON AND OFF, AND THE SPEED CONTROLLER ONLY WORKS WHEN THE FAN IS POWERED.
- M12 FABRIC DUCT. STANDARD COLOR SELECTED BY ARCHITECT. PROVIDE RIBBED STRUCTURE TO BE IN THE FABRIC DUCT TO KEEP THE DUCT ROUND WHEN NOT IN USE.
- M14 EXISTING HOUSE KEEPING PAD TO BE DEMOLISHED AND RE PORED TO ACCOMMODATE BOTH CONDENSING UNITS AND SERVICE REQUIREMENTS.
- M15 THERMOSTAT AND CO2 SENSORS TO BE MOUNTED IN INFILL OF WALL ON GYM SIDE OF THE CHASE. PROVIDE SECURITY COVERS.
- M16 THERMOSTAT TO BE MOUNTED IN INFILL OF WALL ON GYM SIDE OF THE CHASE. PROVIDE SECURITY COVERS.
- M17 LOUVER ON EXTERIOR WALL. COORDINATE EXACT LOCATION WITH ARCHITECT. PROVIDE EXTERNALLY WRAPPED PLENUM ON BACK OF LOUVER, FULL SIZE OF LOUVER. SLOPE BOTTOM OF PLENUM TOWARDS EXTERIOR. SOLDER ALL JOINTS WATER TIGHT.
- M21 EXISTING PAD FOR EXISTING AHU TO BE DEMO' ED TO ALLOW ROOM FOR NEW AHUS. SEE DETAIL SHEETS FOR MORE INFORMATION ON MOUNTING THE NEW AHUS.
- M22 CONDENSATE IS TO ROUTE TO THE NEAREST CODE APPROVED LOCATION. THIS COULD BE THE SERVICE SINK OR A FLOOR DRAIN. IF THIS IS NOT POSSIBLE PROVIDE DRY WELL OUTSIDE AND PIPE CONDENSATE TO DRY WELL.
- M23 THERMOSTAT TO CONTROL THE TRANSFER FAN IN TECHNOLOGY ROOM. LINE VOLTAGE, MAKE ON TEMPERATURE RISE THERMOSTAT SET AT 78 DEGREES.
- M24 LOUVER TO BE INSTALLED AS CLOSE TO THE GROUND AS POSSIBLE.
- M25 RETURN AIR IS TO COME THRU THE ORIGINAL OPENINGS IN THE BLEACHERS. ARCHITECT TO REPLACE THE EXISTING HARDWARE CLOTH. DO NOT BLOCK THE RETURN AIR PATH UNDER THE BLEACHERS.
- M26 PROVIDE ALUMINUM JACKET FOR REFRIGERANT LINE PROTECTION.
- M27 INSULATE ALL EXHAUST DUCT.
- M28 FABRIC DUCT TO START NO LESS THAN 12" FROM THE END OF THE CHASE WALLS TO ENSURE THE ABILITY TO REMOVE AND CLEAN THE FABRIC DUCT.



REFERENCE GENERAL NOTES ON SHEETS M101, P101, AND E101 FOR ADDITIONAL INFORMATION



COMMISSIONING • FIELD INVESTIGATIONS

This document, the ideas and designs incorporated herein are and shall remain the property of Hendrix Consulting Engineers. These documents are not to be used or altered, in whole or in part, for other than the original intended use, nor are they to be assigned to any third party without written permission from Hendrix Consulting Engineers.

HCE job no.: 20-074 c

HUTTO ISD GYM RENOVATION

HUTTO ISD

200 COLLEGE STREET HUTTO, TX 78634

200 COLLEGE STREET
HUTTO, TEXAS 78634

DATE: 03/30/2021

PROJECT NO. 20-074
DATE: 03/30/2021
DRAWN BY: Author CHECKED BY: Check
REVISIONS:
Date Description

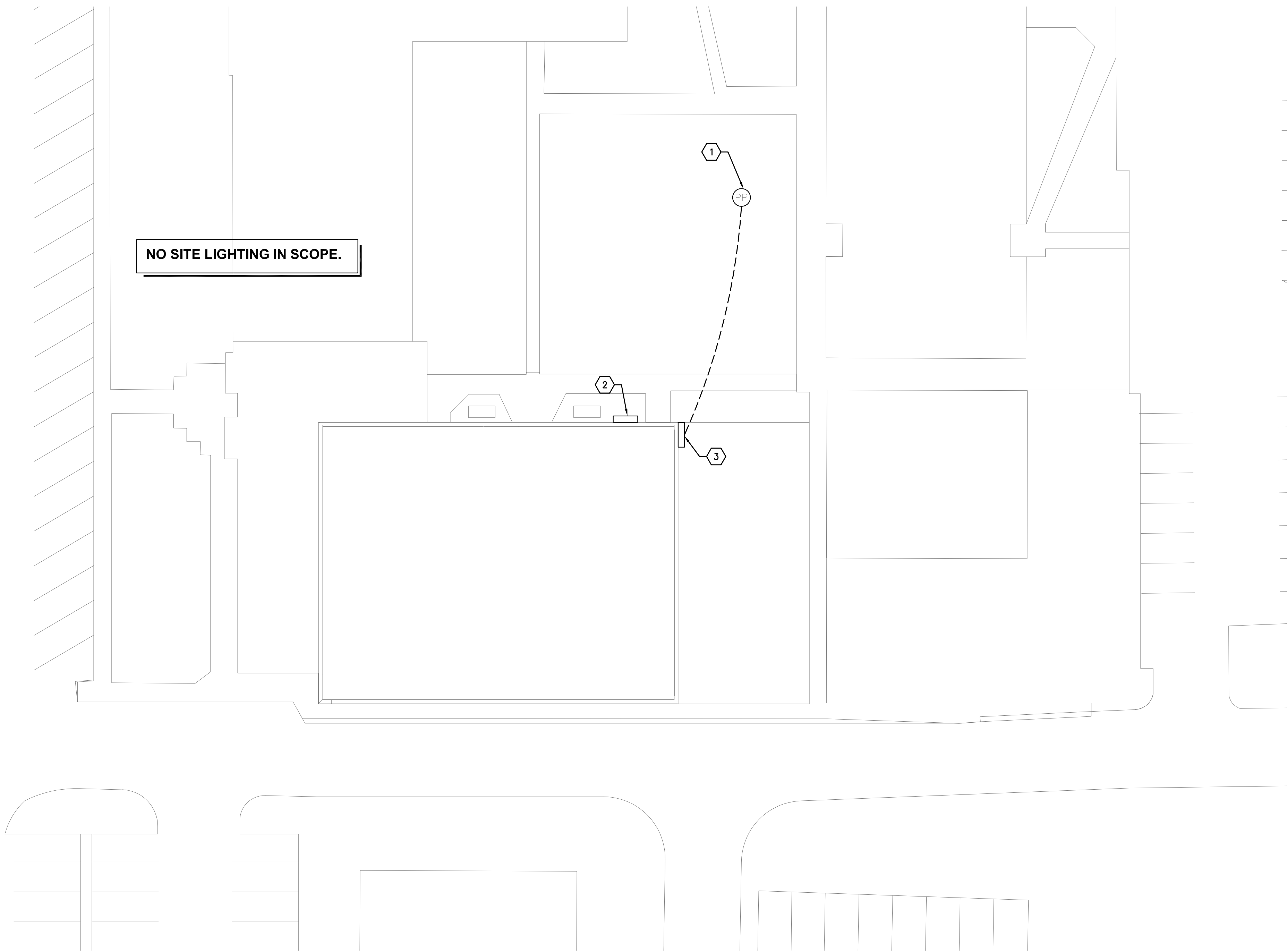
BID SET
M201
LEVEL 1 MECHANICAL
PLAN

pfluger

office: 512.476.4040 | fax: 512.476.4289
209 E. Riverside Drive Austin, Texas 78704
pflugerarchitects.com

01 SITE PLAN - ELECTRICAL

SCALE: 1" = 10'-0"

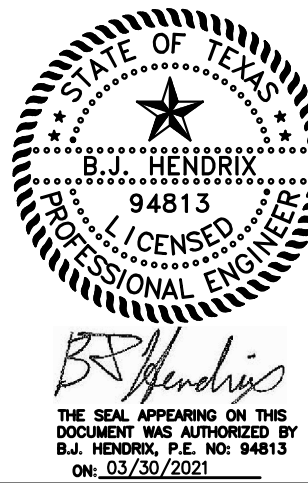


KEYED NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

- 1 EXISTING UTILITY COMPANY POWER POLE WITH EXISTING 120/208V POLE MOUNTED TRANSFORMER TO FEED NEW OVERHEAD SERVICE TO BUILDING.
- 2 LOCATION OF EXISTING ELECTRICAL PANELS AND DISCONNECT. EXISTING PANELS TO BE REMOVED.
- 3 EXISTING WEATHERHEAD ON BUILDING TO BE REMOVED AND REPLACED WITH NEW. FEED NEW WEATHERHEAD FROM EXISTING UTILITY POWER POLE.

DO NOT BEGIN SITE UTILITY WORK UNTIL DRAWINGS HAVE BEEN RECEIVED FROM UTILITY COMPANY.



REFERENCE GENERAL NOTES ON SHEETS M101, P101, AND E101 FOR ADDITIONAL INFORMATION



This document, the ideas and designs incorporated herein are and shall remain the property of Hendrix Consulting Engineers. These documents are not to be used or altered, in whole or in part, for other than the original intended use, nor are they to be assigned to any third party without written permission from Hendrix Consulting Engineers. P - 4095

HCE job no.: 20-074

HUTTO ISD GYM RENOVATION

200 COLLEGE STREET HUTTO, TX 78634

HUTTO ISD

200 COLLEGE STREET
HUTTO, TEXAS 78634

PROJECT NO. 20-074
DATE: 3/20/2021
DRAWN BY: Author CHECKED BY: Checker
REVISIONS:
Date Description

BID SET
E100
SCHEDULES NOTES
AND LEGENDS -
ELECTRICAL

pfluger

office: 512.476.4040 f: 512.476.4289
209 E Riverside Drive Austin, Texas 78704
pflugerarchitects.com

DEVICE SYMBOL SCHEDULE		
NOTES: A. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS. B. ALL DEVICE PART NUMBERS ARE HUBBELL UNLESS OTHERWISE NOTED. C. ALL DEVICE HEIGHTS ARE REFERENCED TO CENTER OF DEVICE.		
SYMBOL	DESCRIPTION	REMARKS
	SINGLE RECEPTACLE 20A/120V 18" AFF UON	HBL5361W
	DUPLEX RECEPTACLE 20A/120V 18" AFF UON-TAMPER RESISTANT UON	CR20WHTR
	DUPLEX RECEPTACLE WITH DUAL USB 20A/120V 18" AFF UON	USB20AC5W
	DUPLEX RECEPTACLE 20A/120V 18" AFF UON WITH GROUND FAULT INTERRUPTER	GFTIRST20W
	DUPLEX RECEPTACLE 20A/120V 18" AFF UON WITH ISOLATED/INSULATED GROUND	IGS352WTR
	FOURPLEX RECEPTACLE 20A/120V 18" AFF UON	(2) CR20WHTR
	FOURPLEX RECEPTACLE 20A/120V, (1) WITH DUAL USB 18" AFF UON	(1) CR20WHTR,(1) USB20AC5W
	CLOCK RECEPTACLE 120V 96" AFF UON	HBL5235
	SPECIAL PURPOSE RECEPTACLE 18" AFF SEE PLANS FOR DETAILS	
	CEILING MOUNTED DUPLEX RECEPTACLE 20A/120V (FLUSH)	CR20-W
	DUPLEX RECEPTACLE 20A/120V MOUNTED HORIZONTALLY 48" AFF UON	CR20WHTR
	DUPLEX RECEPTACLE FOR PROJECTOR	
	WEATHER/TAMPER-RESISTANT DUPLEX RECEPTACLE WITH "IN-USE" COVER 20A/120V 18" AFF UON	GFTIR20W/ WP26M
	8" ABOVE COUNTER - GFI	
	SAFETY TYPE DUPLEX RECEPTACLE 20A/120V 18" AFF UON	CR20WHTR
	DUPLEX RECEPTACLE, FLOOR MOUNTED FLUSH	CR20WHTR,PFBRG1 SB30B3,S3825 OR FOR POKE THRU, CR20WHTR,SIR4PTFT1 SIR4SPDUPLEX,SIR4CVR
	FOURPLEX RECEPTACLE, FLOOR MOUNTED FLUSH	(2) CR20WHTR,PFBRG2 SB30B4,(2)S3825 OR FOR POKE THRU, (2) CR20WHTR,SIR6PTFT1 (2) SIR6SP,SIR6CVR
	EXISTING DUPLEX RECEPTACLE	
	EXISTING FOURPLEX RECEPTACLE	
	EXISTING 208V RECEPTACLE	
	SINGLE POLE SWITCH 20A, 48" AFF UON	CS120W
	DIMMER SWITCH, 48" AFF UON, SEE PLANS FOR DETAILS	
	SWITCH WITH PILOT LIGHT, 48" AFF UON	HBL1221PL
	TWO POLE SWITCH 20A, 48" AFF UON	CS1222W
	TIMER SWITCH, 48" AFF UON	INTERMATIC FF60MC
	FAN SWITCH, 48" AFF UON	RF51

SPECIAL SYSTEM SYMBOL SCHEDULE		
NOTE: A. REFERENCE OWNER SPECIFICATIONS FOR ADDITIONAL INFORMATION. B. THIS IS FOR GENERAL LOCATION ONLY. ALL DEVICES AND CABLING PER OWNER SPECIFICATIONS. C. ALL DEVICE HEIGHTS ARE REFERENCED TO CENTER OF DEVICE.		
SYMBOL	DESCRIPTION	REMARKS
	FIRE ALARM CONTROL PANEL	
	FIRE ALARM ANNUNCIATOR PANEL	
	REMOTE VOICE EVACUATION PANEL	
	SPEAKER, WALL MOUNTED WEATHER RESISTANT, 120" AFF U.O.N.	
	TELEVISION POWER, 72" AFF U.O.N. OR SPECIFIED BY TECHNOLOGY CONSULTANT/OWNER	
	UTILITY CONTROLLER	
	CLOCK, SINGLE FACED WALL MOUNTED, 96" AFF UON	
	CLOCK, DOUBLE FACED WALL MOUNTED, 96" AFF UON	
	CENTRAL DISPLAY UNIT	
	WEATHER PROOF EXTERIOR FIRE ALARM HORN	
	SECURITY KEY PAD, 48" AFF UON	3/4" TO ABOVE CEILING
	BADGE READER FOR SECURITY SYSTEM, 48" AFF UON	3/4" TO ABOVE CEILING
	LIGHTING RELAY ZONE OVERRIDE CONTROL BUTTON	3/4" TO ABOVE CEILING
	MICROPHONE JACK	3/4" TO ABOVE CEILING
	ROUGH-IN FOR CAMERA (WEATHERPROOF BOX FLUSH WITH EXTERIOR WALL)	1" TO ABOVE CEILING
	CEILING MOUNTED CAMERA LOCATION (DATA DROP, CAMERA BY OTHERS)	
	INTERCOM PROGRAM PHONE LOCATION	3/4" TO ABOVE CEILING
	MAG DOOR HOLD OPEN, POWERED BY SPECIAL SYSTEMS	
	LOCK DOWN DEVICE	3/4" TO ABOVE CEILING
	120V POWER FOR DOOR SECURITY POWER SUPPLY	
	120V POWER FOR HANDICAP DOOR POWER SUPPLY	
	DOOR BUZZER, CONFIRM LOCATION WITH OWNER.	3/4" TO ABOVE CEILING
	INTERCOM VOLUME CONTROL	3/4" TO ABOVE CEILING
	OVERHEAD DOOR POWER	
	OVERHEAD DOOR CONTROL LOCATION	
	INTERCOM SPEAKER	
	HAND DRYER POWER	SPECIFIED BY ARCHITECT
	DISHWASHER POWER	
	CIRCULATING FAN POWER	
	WALL MOUNTED MOTION SENSOR	
	FIRE SPRINKLER POWER	
	MOTORIZED BLINDS	

BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE					
NOTE: A. PROVIDE INDIVIDUAL NEUTRALS FOR EACH CIRCUIT. NO SHARED NEUTRALS ALLOWED. C - CONDUIT G - GROUND L - LINE OR PHASE N - NEUTRAL					
MARK	WIRE AND CONDUIT	SYSTEM	MARK	WIRE AND CONDUIT	SYSTEM
(1)	2#12, 1/2" C.	LN	(32)	3/4, 1" C.	LL
(2)	2#12, 1#12G, 1/2" C.	LNG	(33)	3/4, 1#8G, 1" C.	LLNG
(3)	2#12, 1#12G, 1/2" C.	LLG	(34)	3/4, 1#8G, 1" C.	LLLG
(4)	3#12, 1/2" C.	LLL	(35)	4#4, 1#8G, 1 1/4" C.	LLNG
(5)	3#12, 1#12G, 1/2" C.	LLNG	(36)	2#2, 0, 1#4G, 1 1/2" C.	LLG
(6)	3#12, 1#12G, 1/2" C.	LLLG	(37)	2#3, 0, 1#4G, 2" C.	LLNG
(7)	4#12, 1#12G, 1/2" C.	LLNG	(38)	2#3, 1#8G, 1" C.	LLG
(8)	2#10, 1/2" C.	LN	(39)	3#3, 1" C.	LLL
(9)	2#10, 1#10G, 1/2" C.	LNG	(40)	3#3, 1#8G, 1 1/4" C.	LLNG
(10)	2#10, 1#10G, 1/2" C.	LLG	(41)	3#3, 1#8G, 1 1/4" C.	LLLG
(11)	3#10, 1/2" C.	LLL	(42)	4#3, 1#8G, 1 1/4" C.	LLNG
(12)	3#10, 1#10G, 1/2" C.	LLNG	(43)	2#2, 1" C.	LN
(13)	3#10, 1#10G, 1/2" C.	LLLG	(44)	2#2, 1#8G, 1" C.	LNG
(14)	4#10, 1#10G, 1/2" C.	LLNG	(45)	2#2, 1#8G, 1" C.	LLG
(15)	2#8, 1/2" C.	LN	(46)	3#2, 1 1/4" C.	LLL
(16)	2#8, 1#10G, 3/4" C.	LNG	(47)	3#2, 1#8G, 1 1/4" C.	LLNG
(17)	2#8, 1#10G, 3/4" C.	LLG	(48)	3#2, 1#8G, 1 1/4" C.	LLG
(18)	3#8, 3/4" C.	LLL	(49)	4#2, 1#8G, 1 1/4" C.	LLNG
(19)	3#8, 1#10G, 3/4" C.	LLNG	(50)	2#1, 1 1/4" C.	LN
(20)	3#8, 1#10G, 3/4" C.	LLLG	(51)	2#1, 1#6G, 1 1/4" C.	LNG
(21)	4#8, 1#10G, 1" C.	LLNG	(52)	2#1, 1#6G, 1 1/4" C.	LLG
(22)	2#6, 3/4" C.	LN	(53)	3#1, 1 1/2" C.	LLL
(23)	2#6, 1#10G, 3/4" C.	LNG	(54)	3#1, 1#6G, 1 1/2" C.	LLNG
(24)	2#6, 1#10G, 3/4" C.	LLG	(55)	3#1, 1#6G, 1 1/2" C.	LLG
(25)	3#6, 3/4" C.	LLL	(56)	4#1, 1#6G, 1 1/2" C.	LLNG
(26)	3#6, 1#10G, 3/4" C.	LLNG	(57)	2#1/0, 1 1/4" C.	LN
(27)	3#6, 1#10G, 3/4" C.	LLLG	(58)	2#1/0, 1#6G, 1 1/2" C.	LNG
(28)	4#6, 1#10G, 1" C.	LLNG	(59)	2#1/0, 1#6G, 1 1/2" C.	LLG
(29)	2#4, 3/4" C.	LN	(60)	3#1/0, 1 1/2" C.	LLL
(30)	2#4, 1#8G, 1" C.	LNG	(61)	3#1/0, 1#6G, 2" C.	LLNG
(31)	2#4, 1#8G, 1" C.	LLG	(62)	3#1/0, 1#6G, 2" C.	LLLG

ELECTRICAL ABBREVIATION SCHEDULE			
A	AMPERES	MECH	MECHANICAL
A/C	AIR CONDITIONING	MIN	MINOR
AFF	ABOVE FINISHED FLOOR	MISC	MISCELLANEOUS
AJ	AUTHORITY HAVING JURISDICTION	MLO	MAIN LUG ONLY
AL	ALUMINUM	MSB	MAIN SWITCHBOARD
AUX	AUXILIARY	NEC	NATIONAL ELECTRICAL CODE
BFF	BELOW FINISHED FLOOR	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
BDC	BUILDING CONDUIT	NF	NON-FUSED
CB	CIRCUIT BREAKER	NTC	NOT IN CONTRACT
CKT	CIRCUIT	NTS	NOT TO SCALE
COL	COLUMN	OC	ON CENTER(S)
COMP	CONCRETE	OE	OVERHEAD ELECTRIC
CONST	CONSTRUCTION	OT	OVERHEAD TELEPHONE
CONTR	CONTRACTOR	PL	PLUMBING CONTRACTOR
CTV	CABLE TELEVISION	PH	PHONE
DWG	DRAWING	PNC	PANCLOR
EF	EXHAUST FAN	PVCL	POLYVINYL CHLORIDE
DN	DOWN	RE	REFERENCE/REFER TO
ELEC	ELECTRIC/ELECTRICAL	RECP	RECEPTACLE
EMT	ELECTRICAL METALLIC TUBING	RIS	RIGID GALVANIZED STEEL CONDUIT
EQUP	EQUIPMENT	RM	ROOM
EX	EXISTING	SCH	SCHEDULE
FA	FIRE ALARM	SPD	SURGE PROTECTIVE DEVICE
FLR	FLOOR/FLOORING	SPEC	SPECIFICATIONS
GC	GROUND	TEL	TELEPHONE
GFI	GROUND FAULT INTERRUPT	TTB	TELEPHONE TERMINAL BOARD
HP	HORSEPOWER	UC	UNDERGROUND CONDUIT
IMC	INTERMEDIATE METAL CONDUIT	UE	UNDERGROUND ELECTRIC
KVA	KILOVOLT-AMPERES	UL	UNDERULTRASONIC LABORATORIES
KW	KILOWATTS	UN	UNLESS OTHERWISE NOTED
LGT	LIGHTING	UT	UNDERGROUND TELEPHONE
MAX	MAXIMUM	VOLTS	VOLTS
MC	MECHANICAL CONTRACTOR	W	WITH
MCB	MAIN CIRCUIT BREAKER	W/O	WITHOUT
MDP	MAIN DISTRIBUTION PANEL	WP	WEATHER PROOF
		XFMR	TRANSFORMER

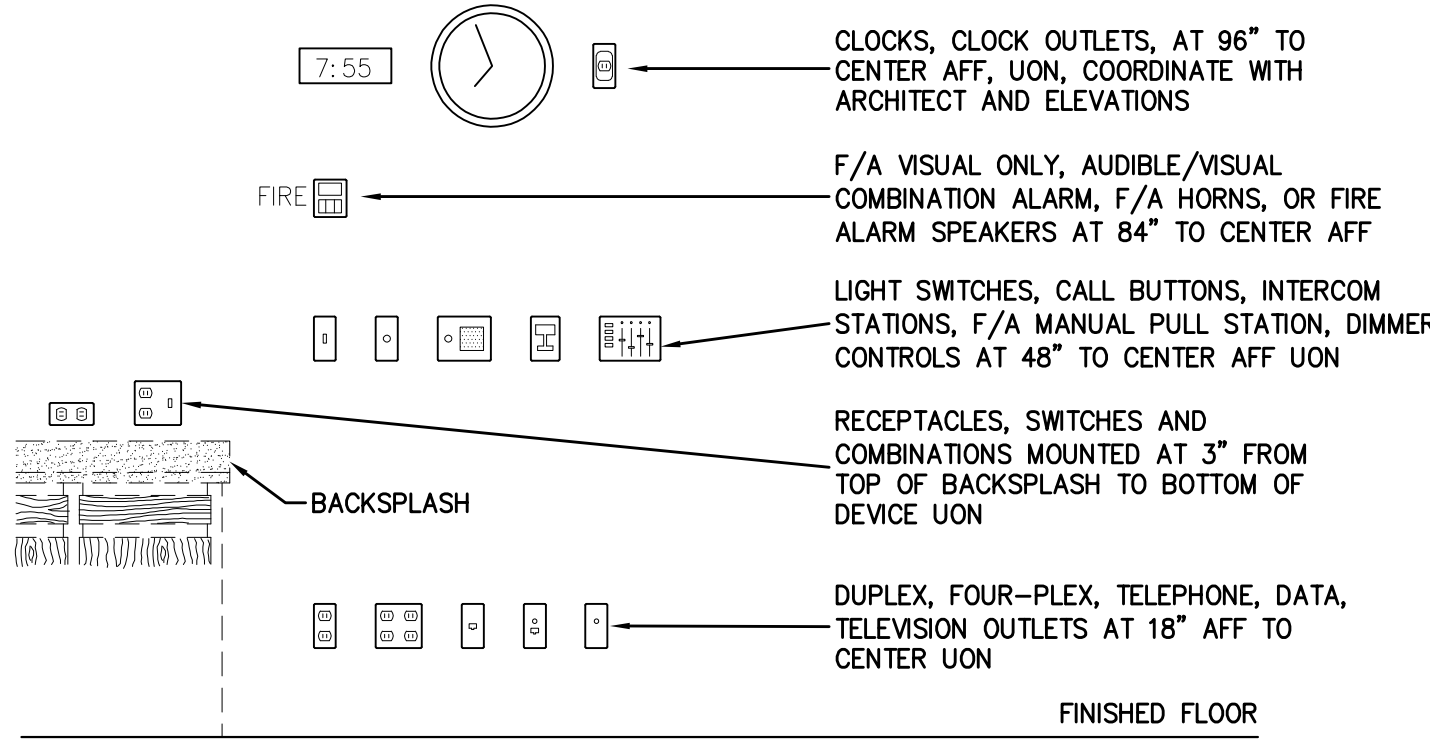
DISTRIBUTION SYMBOL SCHEDULE		
NOTES: A. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS.		
SYMBOL	DESCRIPTION	REMARKS
	HOMERUN (REFER TO PANEL SCHEDULES FOR CONDUIT/WIRING)	
	CIRCUIT ROUTED THRU CONTACTOR OR RELAY	
	UNDERGROUND ELECTRIC	
	UNDERGROUND COMMUNICATION	
	OVERHEAD ELECTRIC	
	OVERHEAD COMMUNICATION	
	CIRCUIT INDICATORS (HOT, NEUTRAL, GROUND, SWITCHLEG)	
	PHOTOCELL	
	JUNCTION BOX	
	JUNCTION BOX, FLOOR MOUNTED FLUSH	
	JUNCTION BOX, WALL MOUNTED - 3/4" TO ABOVE CEILING	
	MANUAL STARTER WITH THERMAL TRIP	
	DISCONNECT SWITCH, REFER TO DISCONNECT SCHEDULE	
	STARTER	
	COMBINATION STARTER/DISCONNECT SWITCH, REFER TO SCHEDULE	
	POWER AND/OR LIGHTING PANELBOARD, REFER TO PANELBOARD SCHEDULE	
	SWITCHBOARD, REFER TO SWITCHBOARD SCHEDULE	
	TRANSFORMER, REFER TO TRANSFORMER SCHEDULE	

SPECIAL SYSTEMS SCOPE	
ACCESS CONTROL SYSTEM 1. REFERENCE TECHNOLOGY SHEETS.	
SECURITY SYSTEM 1. REFERENCE TECHNOLOGY SHEETS.	
TELEPHONE SYSTEM 1. REFERENCE TECHNOLOGY SHEETS.	
INTERCOM SYSTEM 1. REFERENCE TECHNOLOGY SHEETS.	
FIRE ALARM SYSTEM 1. NONE REQUIRED.	
AUDIO-VIDEO SYSTEM 1. REFERENCE TECHNOLOGY SHEETS.	

MISCELLANEOUS EQUIPMENT SCHEDULES	
GENERAL NOTES: A. ELECTRICIAN TO PROVIDE 120V POWER TO ALL EQUIPMENT FROM NEAREST PANEL HAVING CAPACITY, UNLESS OTHERWISE NOTED. B. ELECTRICAL CONTRACTOR IS TO PROVIDE ALL PARTS AND LABOR TO MAKE FINAL CONNECTIONS TO ALL EQUIPMENT SHOWN IN CONTRACT DOCUMENTS. POWER MAY BE SHOWN IN GENERAL LOCATION. IT IS EXPECTED THAT THE ELECTRICAL CONTRACTOR COORDINATE FINAL LOCATION FOR ROUGH-IN AND CONNECTION REQUIREMENTS WITH EXACT EQUIPMENT BEING INSTALLED. THESE ITEMS INCLUDE, BUT NOT LIMITED TO, BOOK SECURITY, EXHAUST FANS, MILS, HAND DRYERS, SENSOR OPERATED PLUMBING DEVICES, ELECTRIC OVERHEAD DOORS, FIRE SMOKE DAMPERS, AIR PURIFICATION UNITS, ETC.	
DAIKIN VRF AC SYSTEMS REFERENCE FLOORPLANS. PROVIDE SNAP SWITCH AT ALL BRANCH SELECTORS AND FCU FOR DISCONNECTING MEANS. CIRCUIT AS SHOWN. PROVIDE DISCONNECTS AS SHOWN FOR ALL AHS AND HRV'S. REFER TO PIPING AND WIRING DIAGRAMS ON THE MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.	
DAIKIN MINI-SPLIT AC SYSTEMS POWER IS CONNECTED TO OUTDOOR UNIT. INDOOR UNIT IS FED FROM OUTDOOR UNIT AND POWER AND COMMUNICATION WIRES MUST BE RUN IN ITS OWN DEDICATED CONDUIT. REFERENCE PLANS AND MANUFACTURER'S INSTALLATION MANUAL.	
LIGHTING CONTROL REFERENCE LIGHTING CONTROL DETAILS AND NOTES. 1. EXTERIOR LIGHTS BY BAS. 2. INTERIOR LIGHTS BY NIGHT.	
POWER FOR SPECIAL SYSTEMS POWER SUPPLIES 1. ELECTRICAL CONTRACTOR TO PROVIDE POWER TO ALL SECURITY, FIRE ALARM, ACCESS CONTROL, ETC. POWER SUPPLIES. COORDINATE EXACT LOCATION WITH SPECIAL SYSTEMS CONTRACTOR AND FLOOR PLANS. PROVIDE DEDICATED LOW VOLTAGE CIRCUIT TO NEAREST PANEL HAVING CAPACITY U.O.N. 2. LABEL ALL SPECIAL SYSTEMS POWER SUPPLIES WITH PANEL AND CIRCUIT NUMBERS.	
MOTORIZED CURTAIN / BLINDS / SHADES CIRCUIT IS SHOWN IN GENERAL AREA AND DOES NOT REPRESENT QUANTITY OF LINE VOLTAGE CONNECTIONS. COORDINATE WITH ARCHITECT SPECIFICATIONS, SCHEDULES AND EXACT CURTAIN BEING PROVIDED FOR ALL ROUGH-IN REQUIREMENTS. CONNECT POWER TO MASTER CONTROL UNIT AND EACH CURTAIN / BLINDS / SHADES PER MANUFACTURE RECOMMENDATIONS. THIS INFO FOR BIDDING PURPOSES ONLY. PROVIDE ALL REQUIRED COMPONENTS FOR COMPLETE WORKABLE SYSTEM.	
MOTORIZED DAMPERS PROVIDE 120V POWER TO ALL MOTORIZED DAMPERS SHOWN ON MECHANICAL DRAWINGS. COORDINATE DAMPER CONTROL REQUIREMENTS WITH MECHANICAL DRAWINGS.	
EXHAUST FAN ELECTRICAL CONTRACTOR SHALL WIRE ALL EXHAUST FANS TO BE CONTROLLED PER "EXHAUST FAN SCHEDULE" ON MECHANICAL SHEET. ELECTRICAL CONTRACTOR TO PROVIDE ALL RELAYS, CONTACTORS, SPRING WOUND TIMERS, ETC., AS REQUIRED PER SCHEDULE TO OPERATE AND CONTROL EXHAUST FAN. IF NO CONTROL IS SPECIFIED, EXHAUST FAN SHALL ENERGIZE WHEN LIGHTS IN ANY ROOM IT SERVES ARE POWERED ON. REFERENCE DETAIL ON ELECTRICAL SHEET FOR ADDITIONAL INFORMATION.	

PANELBOARD CONNECTION SCHEDULE			
A. USE TABLE FOR WIRE AND CONDUIT SIZES FOR ALL PANELBOARDS UNLESS NOTED OTHERWISE. B. WIRE SIZES BASED ON 86°F AMBIENT, 75°C COLUMN OF CHART. NEC 310.15(B)(16) C. TABLE FOR 120/208/3PH/4W AND 277/480/3PH/4W PANELBOARDS. D. PROVIDE 200% NEUTRAL BUS BAR AND 200% NEUTRAL WIRE WHEN SPECIFIED.			
PANEL SIZE OR MCB SIZE	WIRE SIZE	GROUND	CONDUIT
60	4 #6	#10	1"
100	4 #3	#8	1 1/4"
125	4 #1	#6	1 1/2"
150	4 #1/0	#6	2"
200	4 #5/0	#6	2"
225	4 #4/0	#4	2 1/2"
300	4 #350	#4	3"
400	2 SETS 4 #3/0 OR 1 SET 4 #600	#3	2" PER SET 4"
600	2 SETS 4 #350	#1	3" PER SET
800	2 SETS 4 #600	#1/0	4" PER SET

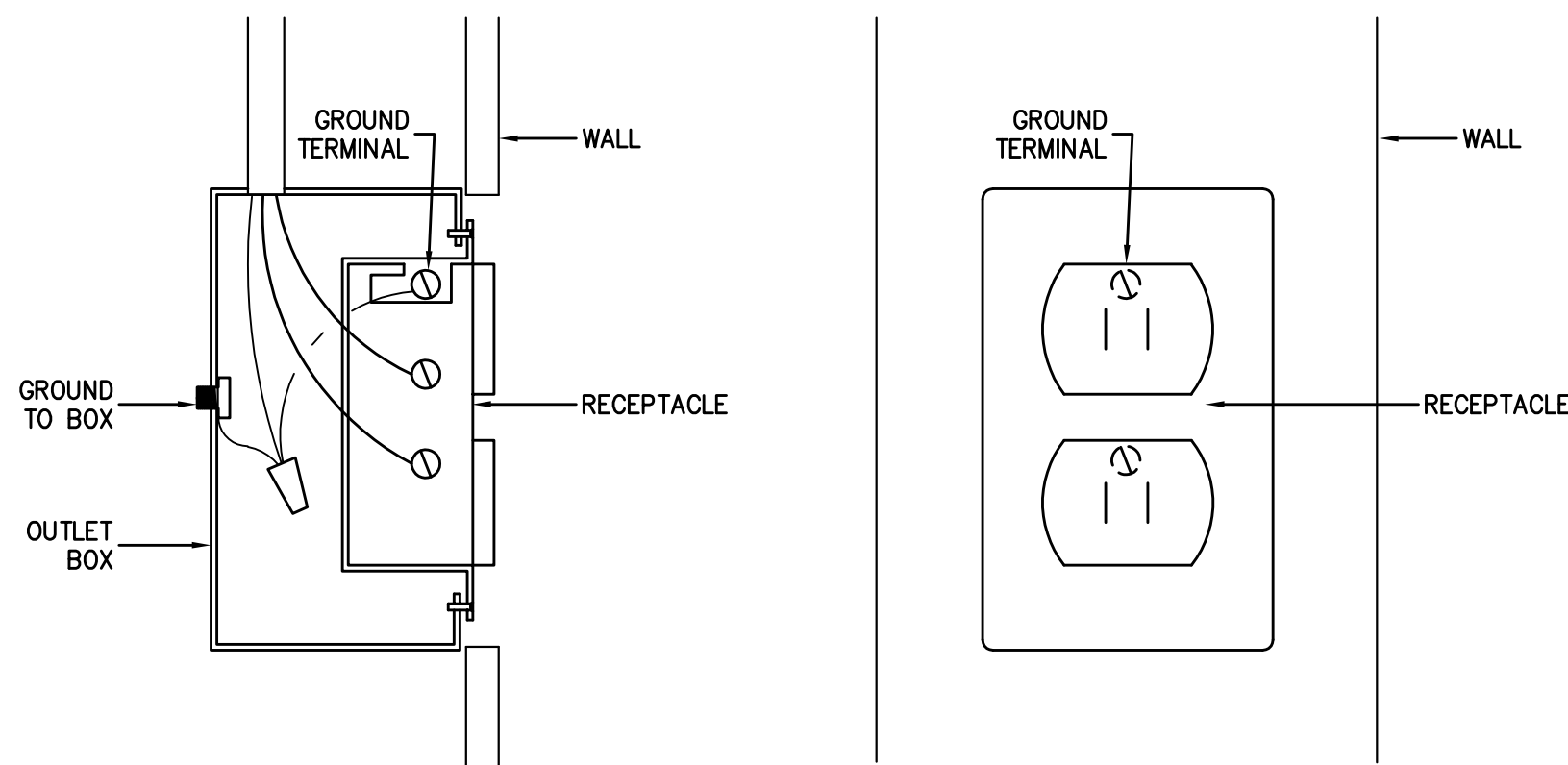
GENERAL NOTES	
A.	THE CONTRACTOR IS TO VISIT THE SITE PRIOR TO BID TO FAMILIARIZE HIMSELF WITH ALL CONDITIONS AS THEY EXIST. SUBMISSION OF BID INDICATES THE CONTRACTOR'S UNDERSTANDING OF EXISTING CONDITIONS AND HIS WILLINGNESS TO WORK WITH THESE CONDITIONS. NO ADDITIONAL TIME OR MONEY WILL BE ALLOTTED DUE TO LACK OF COORDINATION WITH EXISTING CONDITIONS OR OTHER TRADES.
B.	CONTRACTOR IS TO REVIEW AND COMPARE ALL DRAWINGS SO ALL WORK IN THEIR RESPECTIVE TRADE IS INCLUDED IN BID. EACH CONTRACTOR SHALL INCLUDE ALL MATERIALS AND INSTALLATION REQUIRED FOR HIS PARTICULAR TRADE AFTER COMPLETE REVIEW OF ALL CONTRACT DRAWINGS AND SPECIFICATIONS.
C.	ALL WORK SHALL COMPLY WITH THE CURRENT APPLICABLE LOCAL, STATE AND FEDERAL CODES AND ORDINANCES. FOLLOW RECOMMENDED PRACTICES AS SET DOWN BY NFPA, BUILDING CODE, MECHANICAL CODE, PLUMBING CODE, NATIONAL ELECTRICAL CODE, ADA AND OSHA, AS THEY APPLY TO THIS PROJECT, EXCEPT IN CASES WHERE LOCAL STATUTES GOVERN. THE CONTRACTOR SHALL VERIFY WITH AUTHORITY HAVING JURISDICTION THE LATEST ADOPTED LOCAL CODES, ORDINANCES AND AMENDMENTS THAT APPLY TO THIS PROJECT.
D.	THE ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE, SIZES OF BREAKERS, FUSES, WIRES, ETC., FOR ALL EQUIPMENT TO BE PROVIDED, INCLUDING BUT NOT LIMITED TO HVAC, LIGHTING, PUMPS, HEATERS, ETC., AND REPORT DISCREPANCIES TO THE ENGINEER/ARCHITECT PRIOR TO INSTALLATION OF CONDUIT. COORDINATE WITH MECHANICAL/ELECTRICAL COORDINATION SHEET PROVIDED BY MECHANICAL CONTRACTOR FOR ACTUAL EQUIPMENT BEING USED.
E.	HOMERUNS SHALL BE COORDINATED WITH PANELBOARDS. ALL WIRING AND CONDUIT SHALL BE CONCEALED, EXCEPT IN ELECTRICAL ROOMS AND EXPOSED STRUCTURE AREAS.
F.	ALL WIRING SHALL BE FREE OF SHORTS AND GROUNDS. NO WIRING SHALL BE LOADED BEYOND THE PERMITTED AMPACITIES ALLOWED BY CURRENT N.E.C.
G.	MINIMUM WIRE/CONDUIT SIZES, EXCEPT FOR CLASS 2 LOW VOLTAGE CIRCUITS, ARE #12 AWG COPPER IN 1/2" CONDUIT. WHERE THE DISTANCE BETWEEN THE SUPPLYING PANEL AND THE FIRST BRANCH CIRCUIT RECEPTACLE OR LIGHT FIXTURE IS MORE THAN 100 FEET, CONTRACTOR REQUIRED TO USE SIZE CONDUCTOR TO ALLOW FOR MAXIMUM OF 3% VOLTAGE DROP FOR ACTUAL ROUTING OF CONDUITS TO DEVICE.
H.	THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO MAKE A COMPLETE AND WORKABLE SYSTEM.
I.	CONFIRM THE EXACT LOCATION AND MOUNTING HEIGHTS OF LIGHTING FIXTURES WITH ARCHITECT BEFORE ROUGH-IN. COORDINATE REQUIRED CLEARANCES ABOVE FIXTURES WITH OTHER TRADES.
J.	PROVIDE A TYPED PANEL DIRECTORY FOR ALL PANELBOARDS INDICATING FINAL INSTALLED CONDITION. CIRCUIT LABELING SHALL AGREE WITH EQUIPMENT DESIGNATIONS AND OWNERS FINAL ROOM NUMBERS.
K.	LABEL ALL RECEPTACLES AND LIGHT SWITCHES WITH CIRCUIT NUMBER USING AN ELECTRONIC LABELER (BLACK ON CLEAR).
L.	THE CONTRACTOR IS TO LAY OUT SERVICE ENTRANCE AND ELECTRIC ROOMS TO SCALE WITH ACTUAL GEAR TO BE INSTALLED TO ENSURE PROPER FIT AND CLEARANCES BEFORE INSTALLATION. COORDINATE ALL SERVICE CLEARANCE REQUIREMENTS WITH LOCAL UTILITY COMPANY. PROVIDE A 1/4" SCALE (MINIMUM) SHOP DRAWING. NOTIFY ARCHITECT/ENGINEERS OF ANY DIMENSIONAL PROBLEMS.
M.	COORDINATE AND WIRE ALL DOOR HOLD OPEN DEVICES, AS REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS. ROUTE 120 VOLT POWER FROM NEAREST AVAILABLE CIRCUIT AS REQUIRED. PROVIDE ALL WIRING NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
N.	PROVIDE SLEEVES FOR SPECIAL SYSTEMS ABOVE EACH DOOR INTO A RATED EGRESS CORRIDOR, (1 - 2" AND 3 - 3/4"). FIRE SEAL ENDS AND UNUSED SLEEVES SHALL HAVE A SCREW CAP INSTALLED ON BOTH SIDES. USE THREADED CONDUIT.
O.	ALL RECEPTACLES SERVING ELECTRIC WATER COOLERS SHALL BE LOCATED AT A HEIGHT SO AS NOT TO BE VISIBLE AFTER INSTALLATION OF EWC. COORDINATE MOUNTING HEIGHT WITH EQUIPMENT BEING PROVIDED. PROTECT WITH GFCI BREAKER.
P.	ALL CONDUITS ROUTED BELOW FINISHED FLOOR SHALL BE RUN BELOW THE GRADE BEAMS. CONDUITS AND MULTIPLE CONDUITS SHALL NOT PENETRATE GRADE BEAMS UNLESS COORDINATED WITH STRUCTURAL ENGINEER. OBTAIN WRITTEN APPROVAL FROM STRUCTURAL ENGINEER PRIOR TO BEGINNING WORK.
Q.	ALL EXPOSED CONDUIT SHALL BE RUN PARALLEL AND PERPENDICULAR TO STRUCTURE AND BUILDING LINES. COORDINATE FINAL CONDUIT ROUTING PATH WITH ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.
R.	THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL 120 VOLT WIRING AND CONNECTIONS REQUIRED TO FIRE SMOKE DAMPERS. COORDINATE EXACT LOCATIONS OF DAMPERS WITH MECHANICAL CONTRACTOR AND RELAY REQUIREMENTS WITH FIRE ALARM CONTRACTOR. CONNECT TO NEAREST AVAILABLE UNSWITCHED CIRCUIT UNLESS OTHERWISE INDICATED ON DRAWINGS.
S.	ELECTRICAL CONTRACTOR SHALL CONNECT MOTORIZED BACK DRAFT DAMPERS FOR EXHAUST FANS FROM CIRCUIT FEEDING FAN. PROVIDE ALL MATERIAL AND LABOR TO MAKE CONNECTIONS.
T.	ELECTRICAL CONTRACTOR TO SEAL ALL PENETRATIONS OF ELECTRICAL WORK IN FIRE AND SMOKE RATED PARTITIONS, CEILINGS, ETC.
U.	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECTING MEANS AND PROPER FUSING PROTECTION FOR ALL EQUIPMENT PER N.E.C. UNLESS OTHERWISE NOTED.
V.	COORDINATE ALL DEVICES IN MILLWORK WITH ARCHITECTURAL MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN.
W.	SENSOR OPERATED PLUMBING DEVICES: PLUMBING CONTRACTOR TO PROVIDE LOW VOLTAGE TRANSFORMERS FROM MANUFACTURER. ELECTRICAL CONTRACTOR IS TO PROVIDE ALL OTHER MATERIALS AND LABOR FOR COMPLETE INSTALLATION.
X.	SPRAY PAINT JUNCTION BOXES RED FOR FIRE ALARM SYSTEM. ALL OTHER SPECIAL SYSTEM JUNCTION BOXES TO BE PAINTED WHITE.
Y.	DO NOT HANG ANY FIXTURES, EQUIPMENT OR CONDUIT FROM ROOF DECK.
BB.	LABEL ALL JUNCTION BOXES WITH CIRCUIT NUMBERS.
CC.	IDENTIFY RECEPTACLE CIRCUITS IN PANELBOARDS TO INDICATE FINAL ROOM NUMBERS. VERIFY FINAL ROOM NUMBERS PRIOR TO TYPING PANELBOARD SCHEDULES.
DD.	MECHANICALLY FASTEN ALL LABELS TO EQUIPMENT.
EE.	ELECTRICAL CONTRACTOR TO OBTAIN "MECH/ELEC COORDINATION SHEET" FILLED OUT FROM MECHANICAL CONTRACTOR. THIS SHEET IS TO BE INCLUDED WITH ELECTRICAL GEAR/PANELBOARD SUBMITTAL. SUBMITTAL WILL NOT BE CHECKED WITHOUT THIS FORM INCLUDED.
FF.	ELECTRICAL CONTRACTOR IS TO PROVIDE ROUGH-IN FOR ALL MECHANICAL CONTROL DEVICES IN WALLS AND PENETRATIONS FOR CONTROL WIRES TO EXTERIOR UNITS. COORDINATE ALL LOCATIONS WITH MECHANICAL CONTRACTOR AND MECHANICAL SHEETS.
GG.	DISCONNECTS MOUNTED ABOVE CEILING MUST BE MOUNTED TO BE READILY ACCESSIBLE NEAR UNIT. HANDLE TO BE NO MORE THAN 36" ABOVE CEILING GRID.
HH.	ALL EXTERIOR DISCONNECTS ARE TO BE MOUNTED BELOW LINE OF SIGHT OF A SCREEN WALL OR IF SINGLE DISCONNECT, LEVEL WITH TOP OF CONDENSER. VERIFY LOCATION WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.
II.	THE ELECTRICAL CONTRACTOR SHALL PROVIDE ONE 120 VOLT, WEATHERPROOF GFCI DUPLEX RECEPTACLE WITHIN 25 FEET OF ALL PIECES OF NEW OR REPLACEMENT MECHANICAL EQUIPMENT LOCATED ON ROOF, MEZZANINE OR ON THE GROUND. CONNECT TO NEAREST AVAILABLE UNSWITCHED 120 VOLT 20 AMP CIRCUIT WITH LESS THAN 6 RECEPTACLES OR RUN TO NEAREST PANELBOARD AND PROVIDE HOMERUN WITH NEW 20 AMP CIRCUIT BREAKER.



MOUNTING HEIGHT DETAIL

NO SCALE

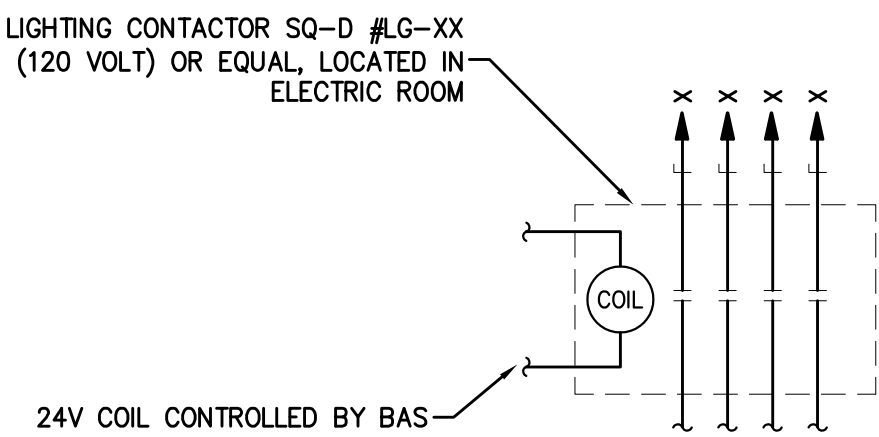
EDE-10



RECEPTACLE GROUNDING DETAIL

NO SCALE

EDE-57



LIGHTING CONTACTOR DETAIL

SCALE: NONE

EDE-11

NLIGHT - DEVICE SYMBOL SCHEDULE

NOTES:

- ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS.
- ALL DEVICE PART NUMBERS ARE NLIGHT UNLESS OTHERWISE NOTED.
- THESE DEVICES SHOULD BE USED IN ALL AREAS TO BE CONTROLLED BY NLIGHT.
- MOTION SENSOR: WHERE MOTION SENSORS ARE SHOWN ON THE PLANS, THAT INDICATES AREA SHOULD BE COVERED IN FULL BY MOTION SENSORS. IT IS UP TO MOTION SENSOR PROVIDER TO PROVIDE APPROPRIATE QUANTITY, LAYOUT, AND TYPE OF MOTION SENSORS FOR COMPLETE COVERAGE. PROVIDE SHOP DRAWINGS AT SUBMITTAL PHASE.
- PHOTOCELL: WHERE PHOTOCELLS ARE SHOWN ON PLANS OR IN TYPICAL DETAILS, IE: CLASSROOMS, PHOTOCELL LOCATION AND QUANTITY SHOULD BE DETERMINED BY PHOTOCELL PROVIDER. PHOTOCELLS ARE INTENDED TO DIM LIGHTS IN DAYLIGHT ZONES AS INDICATED BY IECC 2018.
- IF MULTIPLE ZONE CONTROL IS INDICATED FOR A SPACE AND THOSE ZONES ARE NOT CLEAR TO CONTRACTOR, THE CONTRACTOR IS TO MAKE BEST ASSUMPTION IN SHOP DRAWING PHASE AND NOTE AREAS IN QUESTION. ENGINEER WILL REVIEW AND MAKE ANY ADJUSTMENTS TO ZONES AT THAT TIME.
- MANUFACTURER TO PROVIDE A COMPLETE SET OF SHOP DRAWINGS INDICATING ALL ASPECTS OF LIGHTING CONTROL AT A MINIMUM OF 1/8" = 1' SCALE WITH CLEAR DESCRIPTIONS AND LEGENDS FOR SYMBOLS.
- BASIC COMPONENTS ARE CALLED FOR HERE, IT IS EXPECTED THAT MANUFACTURER PROVIDES ALL COMPONENTS FOR A COMPLETE WORKABLE SYSTEM.
- FACTORY START-UP IS REQUIRED FOR ALL NLIGHT SPACES.
- CONTRACTOR SHOULD SEND COMPLETE SET OF ELECTRICAL PLANS TO NLIGHT FACTORY REP TO ENSURE A COMPLETE BID.
- CONTRACTOR TO ASSUME ALL DEVICES INTER-CONNECTED WITH CAT-6 CABLE. PROVIDE ALL REQUIRED CABLING BETWEEN DEVICES. CABLE COLOR IS TO BE COORDINATED WITH THE TECHNOLOGY CABLING TO BE A DIFFERENT COLOR. NO ZIP TIES MAY BE USED FOR SECURING CABLE. ONLY VEGRO TIES MAY BE USED.

SYMBOL	DESCRIPTION	REMARKS
	DUAL TECHNOLOGY WALL MOUNT MOTION AND DIMMING	nWSXA-PDT-LV-DX
	ONE ZONE CONTROLLER, ON/OFF AND DIMMING	nPODMA-DX
	TWO ZONE CONTROLLER, ON/OFF AND DIMMING	nPODMA-2P-DX
	FOUR ZONE CONTROLLER, 4 PRESET TOGGLE BUTTONS	nPODMA-4S-DX
	ONE ZONE KEYED CONTROLLER, ON/OFF AND DIMMING	nPOD-KEY
	COLOR SCENE CONTROLLER	nPODMA-4S-EDUTW
	MOTION SENSOR, DT (DUAL TECHNOLOGY)	nCM-PDT-9
	MOTION SENSOR, DT (DUAL TECHNOLOGY)	nCM-PDT-10
	MOTION SENSOR, DT (DUAL TECHNOLOGY)	nWV-PDT-16
	PHOTOCELL	nCM-ADCX

NLIGHT INTERIOR LIGHTING SCHEDULE

GENERAL NOTES:

POWER PACKS

FOR FIXTURES THAT ARE NOT NLIGHT COMPATIBLE, PROVIDE POWER PACKS TO ACHIEVE ZONING INDICATED ON PLANS.

AREAS WITH HIGH CEILINGS (25FT OR HIGHER). PROVIDE POWER PACKS TO ACHIEVE ZONING INDICATED ON PLANS. LOCATE POWER PACKS IN ACCESSIBLE LOCATION FROM LIGHTING PANEL SERVING CIRCUITS.

WHEN POWER PACKS ARE PROVIDED. CONTRACTOR MUST PROVIDE 0-10V DIMMING WIRES FROM POWER PACK TO FIXTURE FOR CONTROL IN LIEU OF CAT5 CABLE.

NLIGHT MANUFACTURER TO PROVIDE NLIGHT ENABLED FIXTURES OR POWER PACKS TO ACHIEVE ZONING SHOWN ON PLANS FOR SWITCHING AND DAYLIGHT ZONES TO PROVIDE BEST VALUE TO THE PROJECT.

MOTION SENSORS

PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR ENTIRE BUILDING, EXCEPT ELECTRIC ROOMS, AND AS WHEN NOTED EXCEPTION SHOWN ON PLANS. PROVIDE DUAL TECHNOLOGY MOTION SENSORS IN EVERY ROOM AS REQUIRED BY IECC 2018. ASSUME CEILING MOUNT UNLESS WALL MOUNT SHOWN.

VACANCY SENSORS

PROVIDE COMPLETE DUAL TECHNOLOGY VACANCY SENSOR COVERAGE PER IECC 2018 IN ALL AREAS EXCEPT EMERGENCY EGRESS CORRIDORS AND PATHWAYS. SHOP DRAWING REQUIRED.

OCCUPANCY SENSORS

PROVIDE COMPLETE DUAL TECHNOLOGY OCCUPANCY SENSOR COVERAGE PER IECC 2018 IN ALL EMERGENCY EGRESS CORRIDORS AND PATHWAYS. SHOP DRAWING REQUIRED.

CONTROL STATION

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'.

PROGRAMMING MODULE

PROVIDE (2) NIO BT BLUE TOOTH PROGRAMMING MODULES WITH PROJECT AND PROVIDE TO OWNER FOR OWNER'S FUTURE USE. STARTUP TECHNICIAN SHALL PROVIDE OWNER TRAINING ON USE OF MODULE.

PROGRAMMING FOR SPECIAL CONTROLLERS

PROVIDE MINIMUM 2 DAYS FOR PROGRAMMING AND OWNER TRAINING FOR THE NP0D GFX AND TWOVUE LIGHTING CONTROLLERS SPECIFIED BELOW. COORDINATE WITH OWNER FOR ALL SCENE PROGRAMMING INCLUDING SPECIFIC SCENES SPECIFIED IN THE SECTIONS BELOW AND OTHERS THAT THE OWNER MAY REQUEST.

SPACE TYPE DESCRIPTION:

GYM

- PROVIDE CONTROL STATIONS AS SHOWN ON PLANS.
- ONE OVERALL ZONE.
- 4-BUTTON STATIONS SHOULD BE PROGRAMMED FOR 100%, 50%, 25%, 10%.
- PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR MAJOR MOVEMENTS. MANUAL ON / AUTO OFF AFTER 20 MINUTES. SHOP DRAWING REQUIRED.
- IF 2 COURTS, COURTS ARE TO BE CONTROLLED SEPARATELY.
- NO PHOTOCELL CONTROL.

SINGLE ZONE ROOMS

- PROVIDE CONTROL STATIONS AS SHOWN ON PLANS.
- ONE OVERALL ZONE TO CONTROL ALL LIGHTS IN ROOM.
- PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR MINOR MOVEMENTS. MANUAL ON / AUTO OFF AFTER 20 MINUTES. SHOP DRAWING REQUIRED.
- PROVIDE NIGHT PLUG LOAD POWER PACK (NP20 PL) IN ACCESSIBLE LOCATION FOR EXHAUST FAN CONTROL IN SINGLE RESTROOMS.

LIGHT FIXTURE SCHEDULE

GENERAL NOTES:

- CONFIRM CEILING TYPE AND CONSTRUCTION PRIOR TO ORDERING LIGHT FIXTURE. PROVIDE FLANGE KIT FOR PROPER INSTALLATION OF LAY-IN FIXTURE IN GYPSUM CEILING. PROVIDE FIXTURE TYPE 'H2' IN LIEU OF FIXTURE TYP 'A2' IN ROOMS WITH NO CEILING. CHAIN HANG AT 10' A.F.F.
- COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF WALL MOUNTED LIGHT FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.
- REFER TO ARCHITECTURAL REFLECTIVE CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURE.
- CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDERING LIGHT FIXTURES.
- 'E' DESIGNATION ADJACENT TO LIGHTING FIXTURE TYPE INDICATES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY PACK UNIT. LIGHT FIXTURE SHALL BE SWITCHED, BATTERY PACK SHALL BE UNSWITCHED.
- 'N' DESIGNATION ADJACENT TO LIGHTING FIXTURE TYPE INDICATES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY PACK UNIT. LIGHT FIXTURE AND BATTERY PACK SHALL BE UNSWITCHED.
- FIXTURES SHALL BE PROVIDED WITH A DIMMING DRIVER.
- CONNECT ALL EXIT LIGHTING TO THE NEAREST UNSWITCHED CIRCUIT OR THE NEAREST EMERGENCY CIRCUIT.
- REFERENCE 'NLIGHT DEVICE SYMBOL SCHEDULE' AND 'NLIGHT INTERIOR LIGHTING SCHEDULE'.
- ELECTRICAL CONTRACTOR SHALL CONFIRM ALL FIXTURE DRIVER VOLTAGE RATINGS MATCH THE PROJECT ELECTRICAL POWER SYSTEM VOLTAGE AND LIGHTING CIRCUIT VOLTAGE PRIOR TO SUBMITTAL.
- PROVIDE UNIT PRICE FOR THIS FIXTURE. INCLUDE MATERIAL AND LABOR TO BE ADDED AT ANY TIME DURING THE PROJECT.

MARK	MANUFACTURERS CATALOG NUMBER	LAMPS NO. / TYPE / WATTS	FIXTURE VOLTS / WATTS	DESCRIPTION AND COMMENTS
G1	LITHONIA NL2-18-MVOLT-EZ1-LP835-NLIGHT	1/LED 1796 LUMENS/18	120V/18	2' SURFACE MOUNT WRAP AROUND LED. MOUNT 6" ABOVE MIRROR, OR 8" ABOVE STAIRS DEPENDING ON APPLICATION. 1% DIM. NLIGHT
H2	LITHONIA CLX-L48-5000LM-SEF-FDL MVOLT-EZ1-35K-80CRI-WH	1/LED 5189 LUMENS/35	120V/35	LED STRIP FIXTURE. CHAIN HANG. AIRCRAFT CABLE OR SURFACE MOUNT DEPENDING ON APPLICATION. PROVIDE THOLX BRACKET WHEN SURFACE MOUNTED. TYPICAL MOUNTING HEIGHT APPROX 8'-12'. 1% DIMMING. NLIGHT
L2	LITHONIA LDN6-35-2000-L06-AR-LD-MVOLT-EZ1-NLIGHT	1/LED 2006 LUMENS/23	120V/23	6" LED DOWNLIGHT. TRIM TO MATCH CANOPY OR SILVER. PROVIDE 'EL' BATTERY WHEN SPECIFIED. 1% DIM. NLIGHT
N1	OWNER/ARCHITECT SPECIFIED FIXTURE	1/LED/40	120V/40	LED ROUND SURFACE MOUNT LIGHT FIXTURE SPECIFIED BY OWNER/ARCHITECT. 40W MAX ASSUMED. \$1000 ALLOWANCE PER FIXTURE FOR FIXTURE ONLY.
T1	VISIONAIRE LIGHTING VSC-II-T3-32AR-5-4K-UNV-WH-EZ-WSC-X-DM-DOOR/LENS	1/LED ENGINES/50	120V/50	SLIM ARCHITECTURAL WALL MOUNTED LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, ALUMINUM REFLECTOR WITH FULL CUT-OFF. HIGH EFFICIENCY DRIVER WITH FSP-211 FOR MOTION DIMMING TO 50% AND PHOTOCELL CONTROL. DARK BRONZE FINISH. APPROX. 12-14" AFF. COORDINATE FINAL HEIGHT WITH ARCHITECTURAL. FIXTURE TO BE SECURELY MOUNTED TO A STRUCTURAL SURFACE. PROVIDE A TOTAL OF (2) FSIR-100 PROGRAMMING REMOTES PER JOB TO THE OWNER.
T5	OWNER/ARCHITECT SPECIFIED FIXTURE	1/LED/60	120V/60	ARCHITECTURAL WALL MOUNTED LED FIXTURE SELECTED BY OWNER/ARCHITECT. CONFIRM FINISH, FINAL ELEVATION, POWER REQUIREMENTS, ETC., WITH OWNER/ARCHITECT. 60W MAX ASSUMED. \$1000 ALLOWANCE PER FIXTURE FOR FIXTURE ONLY.
U6	LITHONIA JERL-30L-40K-80CRI-WH	1/31,588 LUMENS/218	120V/218	18" x 4" HIGH BAY LED. WITH 100% DIMMING AND NLIGHT CONTROL. ACRYLIC FROSTED LENS AND WHITE FINISH. USE UNISTRUT TO SPAN JOIST OR MOUNT TO BOTTOM OF JOIST DEPENDING ON LOCATION. PROVIDE NLIGHT POWER PACK AS REQUIRED TO SUIT ZONING ON PLANS.
X1	LITHONIA LOC-W-1R-MVOLT-ELN	INCLUDED	120V/5	LED SINGLE FACE EXIT SIGN WITH DIE CAST ALUMINUM HOUSING, EMERGENCY BATTERY PACK. WHITE FINISH.
X2	LITHONIA LOC-2R-277-ELN	INCLUDED	120V/5	LED DOUBLE FACE EXIT SIGN WITH DIE CAST ALUMINUM HOUSING, EMERGENCY BATTERY PACK. WHITE FINISH.
Y1	LITHONIA ELM2L	INCLUDED	120V/2	EMERGENCY EGRESS FIXTURE WITH POLYCARBONATE HOUSING, EMERGENCY BATTERY PACK AND AMMETER. WHITE FINISH. WALL MT APPROX 9' AFF. CONNECT TO NEAREST UNSWITCHED LIGHT CIRCUIT.
Y4	LITHONIA AFF-OEL-00BTD-UVOLT-LTP-WT-CW	INCLUDED	277/10	ARCHITECTURAL, EMERGENCY EGRESS FIXTURE WITH ALUMINUM HOUSING EMERGENCY BATTERY PACK, AMMETER, TIME DELAY. DARK BRONZE FINISH. MOUNT FIXTURE AT 9' A.F.F. UNLESS OTHERWISE NOTED, CONNECT TO NEAREST UNSWITCHED LIGHTING CIRCUIT. NET LOCATION RATED HIGH TEMPERATURE NICKEL-CADMIUM BATTERY.

pfluger

office: 512.476.4040 | fax: 512.476.4289
209 E. Riverside Drive | Austin, Texas 78704

pflugararchitects.com

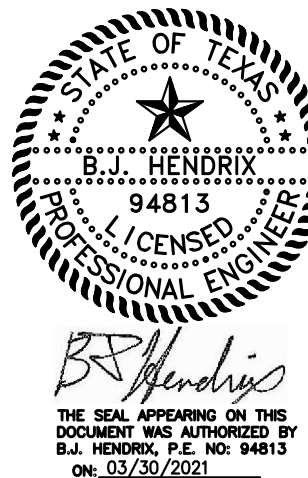
HUTTO ISD GYM RENOVATION

200 COLLEGE STREET HUTTO, TX 78634

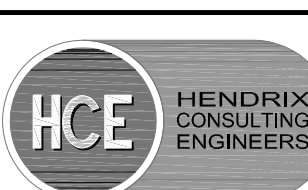
HUTTO ISD

200 COLLEGE STREET
HUTTO, TEXAS 78634

PROJECT NO. 20-074
DATE: 3/30/2021
DRAWN BY: Author CHECKED BY: Designer
REVISIONS:
Date Description



REFERENCE GENERAL NOTES ON SHEETS M101, P101, AND E101 FOR ADDITIONAL INFORMATION



This document, the ideas and designs incorporated herein are and shall remain the property of Hendrix Consulting Engineers. These documents are not to be used or altered, in whole or in part, for other than the original intended use, nor are they to be assigned to any third party without written permission from Hendrix Consulting Engineers. F-4095

HCE job no.: 20-074

BID SET
E102
SCHEDULES -
ELECTRICAL

ELECTRICAL LOAD ANALYSIS			
HUTTO ISD - HISTORIC GYM RENO			
NOTES:			
1. LIGHTING LOAD:			KVA
A. LIGHTING LOAD 6 KVA X 1.25	=		7.5
2. RECEPTACLE LOAD:			
A. 20.2 KVA - 10 KVA = 10.2 KVA x 50% = 5.1 KVA + 10 KVA	=		15.1
3. EQUIPMENT LOAD:			
A. AC	=		48.2
B. HEAT	=		0.0
C. WATER HEATER(S)	=		4.0
D. ELEVATOR(S)	=		0.0
E. MISCELLANEOUS	=		10.8
F. EXST. LOAD PER UTILITY CO. KW X .9 PF X 125%	=		0.0
G.	=		
H.	=		
4. KITCHEN LOAD:			
A. 0 KVA x DEMAND FACTOR (NEC 220-20)	=		0.0
5. 25% OF LARGEST MOTOR (HP) 0 KVA	=		0.0
6. TOTAL CONNECTED LOAD (KVA)	=		85.6
7. FUTURE LOAD	=		85.6
0 KVA + TOTAL CONNECTED LOAD	=	85.6 KVA	
8. TOTAL AMP LOAD OF:			
238 AMPS AT 20/208 VOLT, 3 PHASE, 4 WIRE			
REMARKS:			

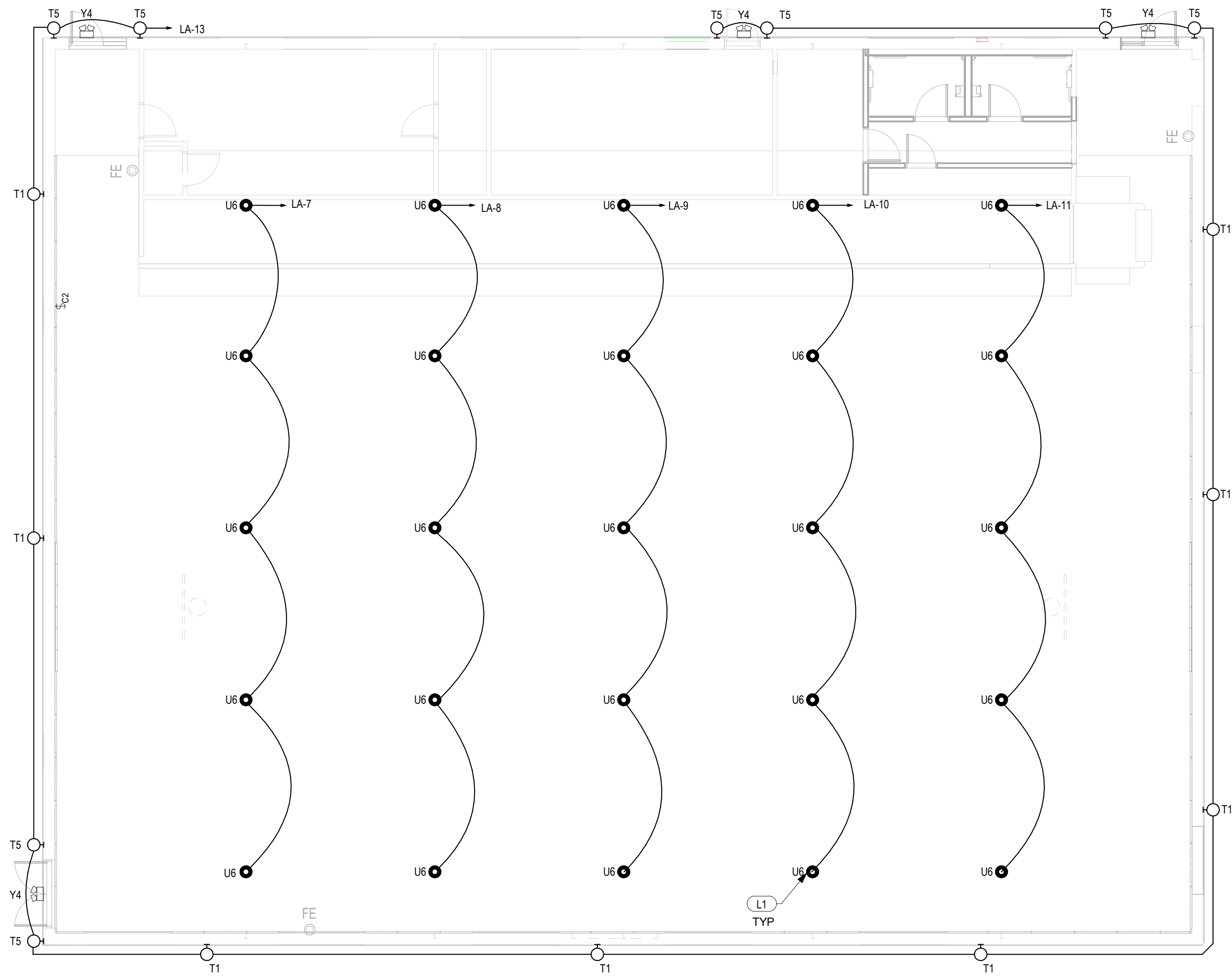
CIRCUIT BREAKER PANELBOARD 'LA' HUTTO ISD - HISTORIC GYM RENO											
STANDARD NOTES: 1. PROVIDE BALANCED LOAD ON EACH PHASE. CIRCUIT NUMBERS SHOWN ON DRAWINGS ARE FOR REFERENCE ONLY. 2. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 3. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 4. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 5. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 6. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 7. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 8. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 9. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 10. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 11. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 12. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 13. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 14. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 15. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 16. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 17. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 18. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 19. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 20. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 21. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 22. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 23. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 24. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 25. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 26. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 27. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 28. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 29. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 30. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 31. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 32. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 33. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 34. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 35. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 36. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 37. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 38. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 39. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 40. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 41. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 42. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 43. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 44. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 45. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 46. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 47. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 48. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 49. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 50. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 51. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 52. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 53. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 54. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 55. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 56. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 57. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 58. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 59. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 60. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 61. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 62. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 63. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 64. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 65. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 66. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 67. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 68. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 69. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 70. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 71. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 72. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 73. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 74. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 75. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 76. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 77. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 78. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 79. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 80. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 81. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 82. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 83. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. 84. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN.											
NOTES: (THESE ITEMS APPLY ONLY WHERE SPECIFIED BELOW) (a) REFERENCE SPLIT SYSTEM ROOFTOP ELECTRICAL CONNECTION SCHEDULE. (b) REFERENCE TRANSFORMER SCHEDULE. (c) REFERENCE FAN POWERED BOX / VAV CONNECTIONS SCHEDULE. (d) PROVIDE WITH SHUNT TRIP BREAKER. (e) PROVIDE WITH PERMANENTLY INSTALLED LOCKING DEVICE. (f) PROVIDE WITH GFCI BREAKER. (g) REFERENCE ASSOCIATED PANEL SCHEDULE. (h) PROVIDE P' PANEL EXTENSION AND CT'S AS NOTED.											
120/208 VOLT 3 PHASE 4 WIRE 400A MCB KA RMS SYM SURFACE MOUNTED, NEMA 1 ENCLOSURE, 5N FEEDER. REFERENCE PANELBOARD CONNECTION SCHEDULE											
CRKT	LOAD DESCRIPTION	WIRE/CONDUIT	KVA	C/B	C/B	KVA	WIRE/CONDUIT	LOAD DESCRIPTION	CRKT		
1	R AV RACK	2	1.0	201	201	1.5	2	IT RACK	R	2	
3	R AV RACK	2	1.0	201	201	1.5	2	IT RACK	R	4	
5	E BWC	2	1.5	201	201	0.5	2	EF-1 EF-2 TF-1	E	8	
7	L GYM LIGHTING	2	0.8	201	201	0.8	2	GYM LIGHTING	L	8	
9	L GYM LIGHTING	2	0.8	201	201	0.8	2	GYM LIGHTING	L	10	
11	L GYM LIGHTING	2	0.8	201	201	1.0	2	LIGHTING	L	12	
13	L EXTERIOR LIGHTING	2	1.0	201	201	0.5	2	RECEPTACLES	R	14	
15	R RECEPTACLES	2	0.5	201	201	0.5	2	RECEPTACLES	R	16	
17	E HP-1	28	15.9	302	302	15.9	28	HP-2	E	18	
19	E HP-1	28	15.9	302	302	15.9	28	HP-2	E	20	
21	E HP-1	28	15.9	302	302	15.9	28	HP-2	E	22	
23	E AHU-1	7	4.2	203	203	4.2	7	AHU-2	E	24	
25	E HP-1	28	15.9	302	302	15.9	28	HP-2	E	26	
27	E HP-1	28	15.9	302	302	15.9	28	HP-2	E	28	
29	R RECEPTACLES	2	0.9	201	201	0.9	2	RECEPTACLES	R	30	
31	R SCORERS TABLE	2	1.0	201	201	1.0	2	UPPER SCORERS TABLE	R	32	
33	E SCORERBOARD	2	1.5	201	201	1.5	2	DOOR POWER	E	34	
35	E WATER HEATER	5	3.0	202	201	0.3	2	HWRP	E	36	
37	E OVERHEAD PROJECTOR	2	1.0	201	201	0.5	2	TOUCH PANEL	E	38	
39	E OVERHEAD PROJECTOR	2	1.0	201	201	0.5	2	TOUCH PANEL	E	40	
41	R RECEPTACLES	2	0.5	201	201	0.5	2	RECEPTACLES	R	42	
43	R RECEPTACLES	2	0.5	201	201	0.7	2	RECEPTACLES	R	44	
45	E LIFT	2	1.5	201	201	0.5	2	RECEPTACLES	R	46	
47	E UPPER SCORERS TABLE	2	1.0	201	201	0.7	2	RECEPTACLES	R	48	
49	R EXISTING RECEPTACLES	2	1.0	201	201	1.5	2	EXISTING REFRIGERATOR	E	50	
51	R EXISTING RECEPTACLES	2	1.0	201	201	1.0	2	EXISTING CEILING FAN	E	52	
53	S SPARE	--	--	202	302	--	--	SPARE	S	54	
55	S SPARE	--	--	203	603	--	--	SPARE	S	56	
57	S SPARE	--	--	203	603	--	--	SPARE	S	58	
59	S SPARE	--	--	203	603	--	--	SPARE	S	60	
61	S SPARE	--	--	203	603	--	--	SPARE	S	62	
63	S SPARE	--	--	203	603	--	--	SPARE	S	64	
65	S SPARE	--	--	203	603	--	--	SPARE	S	66	
67	S SPARE	--	--	203	603	--	--	SPARE	S	68	
69	S SPARE	--	--	203	603	--	--	SPARE	S	70	
71	S SPARE	--	--	203	603	--	--	SPARE	S	72	
73	S SPARE	--	--	203	603	--	--	SPARE	S	74	
75	S SPARE	--	--	203	603	--	--	SPARE	S	76	
77	S SPARE	--	--	203	603	--	--	SPARE	S	78	
79	S SPARE	--	--	203	603	--	--	SPARE	S	80	
81	S SPARE	--	--	203	603	--	--	SPARE	S	82	
83	S SPARE	--	--	203	603	--	--	SPARE	S	84	
ELECTRICAL LOAD CALCULATIONS:											
CONNECTED LOAD:				DEMAND FACTOR:				DEMAND LOAD:			
LIGHTING	=	6.0 KVA	X 1.25	LIGHTING	=	7.5 KVA					
RECEPTACLE	=	20.2 KVA	NEC 220 - 14	RECEPTACLE	=	15.1 KVA					
EQUIPMENT	=	63.0 KVA	X 1.0	EQUIPMENT	=	63.0 KVA					
KITCHEN	=	0.0 KVA	NEC 220 - 56	KITCHEN	=	0.0 KVA					
SPARES	=	0.0 KVA	X 0.5	SPARES	=	0.0 KVA					
TOTAL	=	89.2 KVA		TOTAL	=	85.6 KVA					
										238	AMPS
REMARKS:											

UTILITY COMPANY CONTACT:	
ONCOR	
JIM KRUMNOW (512) 244-5692 jimmy.krumnow@oncor.com	
UTILITY COMPANY TO DETERMINE SERVICE TRANSFORMER SIZES. DO NOT BEGIN ANY UTILITY WORK UNTIL UTILITY DRAWINGS HAVE BEEN ISSUED BY UTILITY COMPANY. UTILITY COMPANY TO PROVIDE AVAILABLE FAULT CURRENT WHEN AVAILABLE.	

THE ELECTRICAL RISER DIAGRAM IS SHOWN SCHEMATICALLY IN NATURE TO INDICATE THE RELATIONSHIP OF THE ELECTRICAL SYSTEM COMPONENTS. IT DOES NOT REFLECT THE ACTUAL ROUTING OF CONDUITS. CONTRACTOR SHALL DETERMINE OVERHEAD OR UNDERGROUND CONDUIT ROUTING. CONDUIT SHALL NOT BE ROUTED EXPOSED ON EXTERIOR WALLS EXCEPT OUT OF THE BOTTOM OF THE PANEL TO RUN UNDER SLAB OR TO AN ADJACENT PANEL WITHIN 24". EXTERIOR EXPOSED CONDUIT SHALL BE MINIMIZED.	
--	--

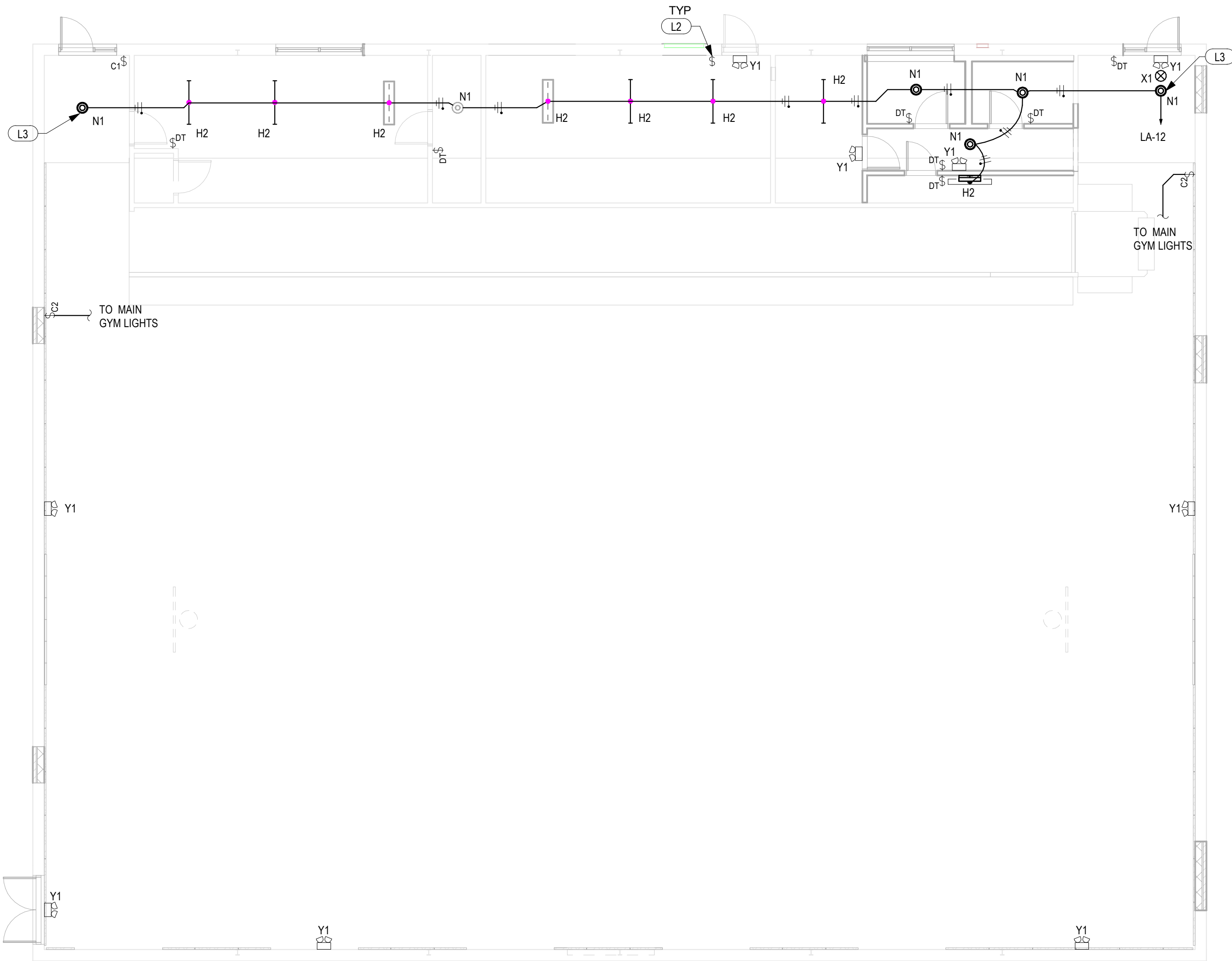
ELECTRICAL CONTRACTOR TO COORDINATE METER AND SERVICE LOCATION WITH DOOR LOCATION. CLEARANCES TO MEET N.E.C.	
--	--

DISCONNECT SWITCH SCHEDULE											
REMARKS: A. THIS SCHEDULE IS NOT A COMPREHENSIVE DISCONNECT SCHEDULE. REFERENCE OTHER ELECTRICAL CONNECTION SCHEDULES FOR ADDITIONAL DISCONNECT REQUIREMENTS. B. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN. C. WHEN THE LENGTH OF THE SECONDARY CONDUCTORS OF ANY TRANSFORMER EXCEEDS TEN FEET, PROVIDE AN ENCLOSED CIRCUIT BREAKER OR FUSED DISCONNECT WITHIN TEN FEET OF THE TRANSFORMER SECONDARY TERMINALS IN ACCORDANCE WITH NEC ARTICLE 240-21(C)(2). THIS OVERCURRENT DEVICE SHALL HAVE AN AMP RATING EQUAL TO THE AMP RATING OF THE PANEL BEING SERVED. THE PANEL BEING FED MAY BE CHANGED TO MAIN LUG ONLY. D. PROVIDE LUG KITS AND/OR WIRING GUTTERS FOR PANELS WITH OVERSIZED CONDUCTORS DUE TO VOLTAGE DROP AND/OR DISTANCE. MAKE CONNECTIONS IN ACCORDANCE WITH THE N.E.C. E. PROVIDE SHOP DRAWINGS OF ALL ELECTRIC ROOMS INDICATING ALL PANEL, TRANSFORMER AND DISCONNECT LOCATIONS. ELECTRICAL EQUIPMENT MAY SHIFT IN LOCATION TO INSURE PROPER CLEARANCES. F. PROVIDE DISCONNECTING MEANS FOR ALL EQUIPMENT PER N.E.C. G. DISCONNECTS MOUNTED ABOVE CEILING MUST BE MOUNTED TO BE READILY ACCESSIBLE NEAR UNIT. H. ALL EXTERIOR DISCONNECTS ARE TO BE MOUNTED BELOW LINE OF SIGHT OF A SCREEN WALL OR IF SINGLE DISCONNECT, LEVEL WITH TOP OF CONDENSER. VERIFY LOCATION WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN. ** LUG IN FOR ALL PANELS SUBFERD FROM TRANSFORMERS THAT REQUIRE DISCONNECT, REFERENCE TRANSFORMER SCHEDULE SECONDARY BREAKER SIZE FOR ALL ENCLOSURE TYPE AND DISCONNECT/FUSE SIZING INFORMATION.											
MARK	VOLTAGE	AMPERES RATING		POLES			ENCLOSURE	FUSES	REMARKS		
	120	208	277	480	1 PHASE	30	1	2	3		
		100	200	400	800	1200	1600	2000	2500	3000	
		60	100	200	400	800	1200	1600	2000	2500	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4	5	6	7	8	9	
		1	2	3	4						



- LIGHTING KEYED NOTES**
THESE NOTES APPLY TO THIS SHEET ONLY
- L1 LIGHT FIXTURES TO BE MOUNTED TO BOTTOM OF STRUCTURE.
- L2 LOW VOLTAGE LIGHTING CONTROL BUTTON. REFERENCE MISCELLANEOUS EQUIPMENT SCHEDULE AND NLIGHT INTERIOR LIGHTING SCHEDULE.
- L3 COORDINATE LIGHTS WITH ARCHITECTURAL CEILING TREATMENT.

2 LEVEL 1 LIGHTING PLAN
E201 1/8" = 1'-0"



1 LEVEL 1 LIGHTING PLAN
E201 1/8" = 1'-0"

HUTTO ISD GYM RENOVATION

200 COLLEGE STREET HUTTO, TX 78634

HUTTO ISD

200 COLLEGE STREET
HUTTO, TEXAS 78634

DATE: 03/24/2021

PROJECT NO. 20-074
DATE: 03/30/2021
DRAWN BY: Author
CHECKED BY: Checker
REVISIONS:
Date Description

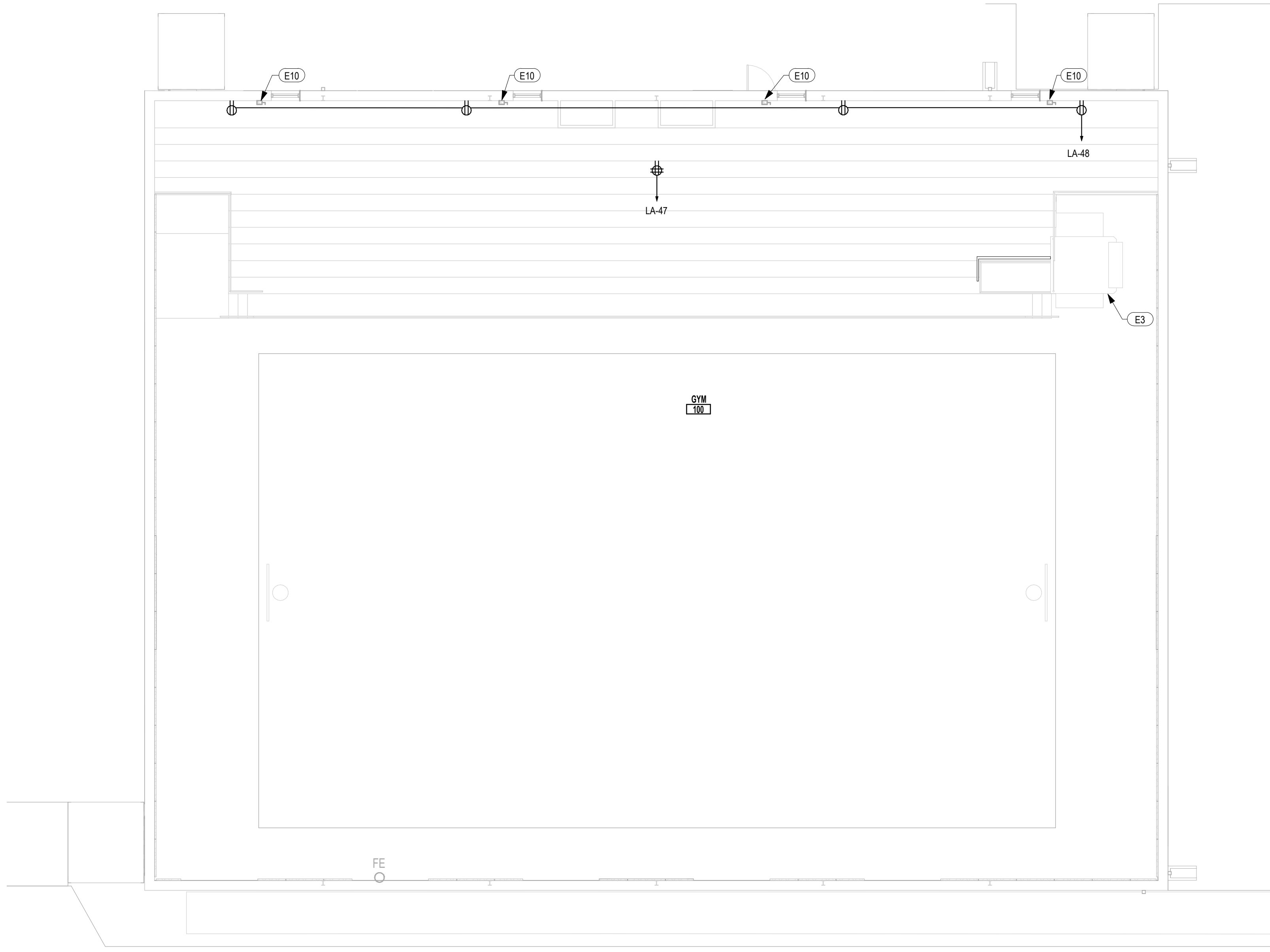


REFERENCE GENERAL NOTES ON SHEETS M101, P101, AND E101 FOR ADDITIONAL INFORMATION

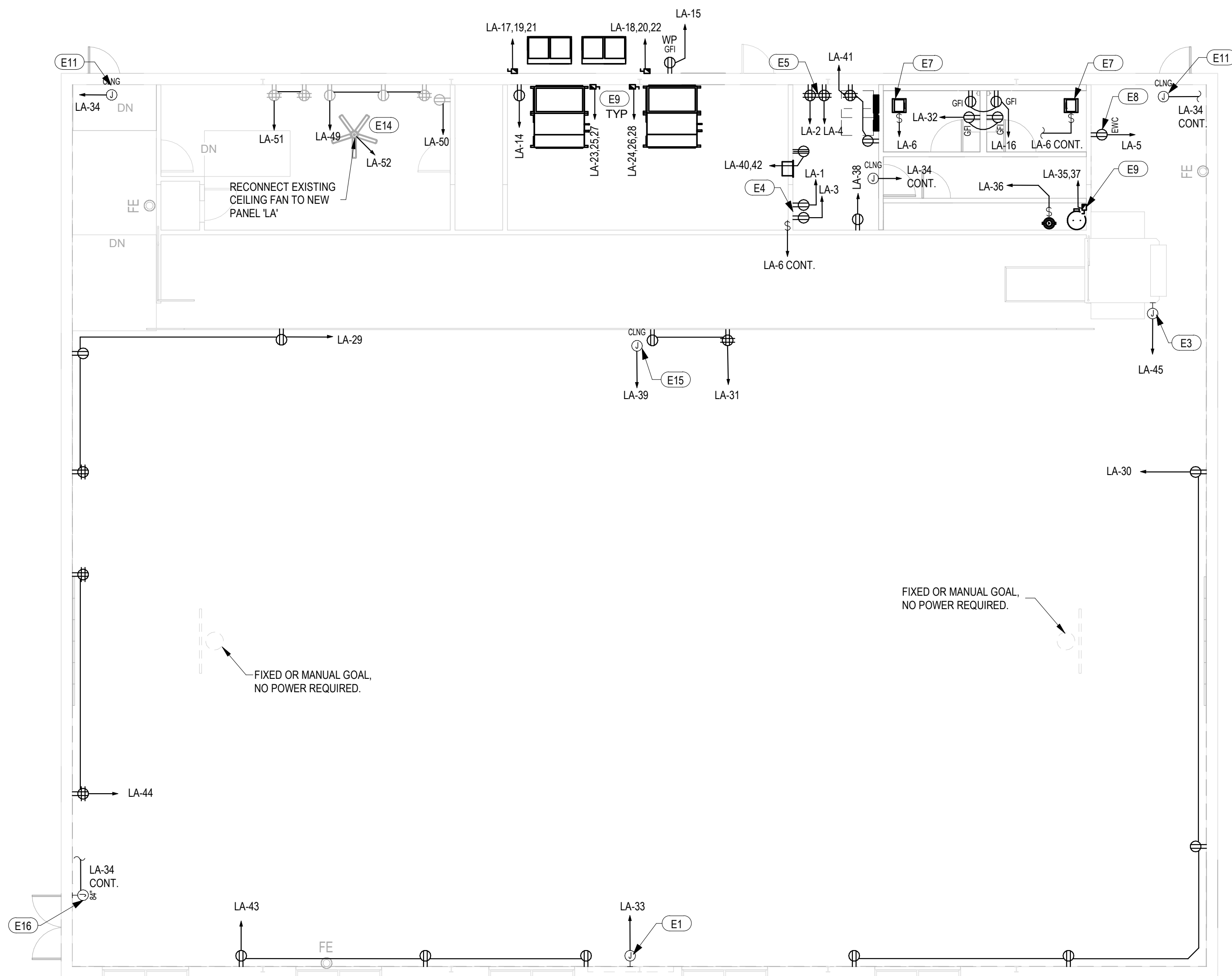


COMMISSIONING • FIELD INVESTIGATIONS
This document, the ideas and designs incorporated herein are and shall remain the property of Hendrix Consulting Engineers. These documents are not to be used or altered, in whole or in part, for other than the original intended use, nor are they to be assigned to any third party without written permission from Hendrix Consulting Engineers.
HCE job no.: 20-074 c

BID SET
E201
LEVEL 1 LIGHTING PLAN



2 ROOF POWER PLAN
E301 1/8" = 1'-0"



1 LEVEL 1 POWER PLAN
E301 1/8" = 1'-0"

POWER KEYED NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

- E1 J-BOX MOUNTED HIGH ON WALL FOR SCOREBOARD. CONFIRM EXACT MOUNTING HEIGHT AND POWER REQUIREMENTS WITH ARCHITECT AND SCOREBOARD PROVIDED
- E3 EXISTING LIFT TO REMAIN. FIELD VERIFY EXACT LOCATION. RECONNECT LIFT TO NEW PANEL 'LA'.
- E4 POWER FOR A/V EQUIPMENT. COORDINATE FINAL MOUNTING HEIGHT AND POWER REQUIREMENTS WITH OWNER/ARCHITECT AND WITH A/V EQUIPMENT PROVIDED.
- E5 POWER FOR IT RACK.
- E7 REFERENCE MECHANICAL FAN SCHEDULE FOR CONTROL OF EXHAUST FANS.
- E8 EWC POWER. RECEPTACLE FOR POWER BEHIND WASH FOUNTAIN OR EWC TO HAVE GFCI BREAKER AT PANEL. COORDINATE FINAL ROUGH-IN LOCATION.
- E9 COORDINATE DISCONNECT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN. REFERENCE DISCONNECT SCHEDULE FOR ADDITIONAL REQUIREMENTS FOR ALL DISCONNECT SWITCHES.
- E10 EXISTING DISCONNECTS SERVING EXISTING LOUVERS. TO BE REMOVED WITH LOUVERS.
- E11 SPECIAL SYSTEMS POWER SUPPLY ABOVE CEILING. COORDINATE EXACT LOCATION WITH SPECIAL SYSTEMS CONTRACTOR.
- E14 REPLACE EXISTING DEVICES IN ROOM WITH NEW DEVICES AND CONNECT TO NEW PANEL 'LA' IN MDF ROOM.
- E15 STRUCTURE MOUNTED J-BOX FOR OVERHEAD PROJECTOR POWER. CONFIRM FINAL LOCATION WITH OWNER/ARCHITECT.
- E16 SPECIAL SYSTEMS POWER SUPPLY MOUNTED HIGH ON WALL. COORDINATE EXACT LOCATION AND ELEVATION WITH SPECIAL SYSTEMS CONTRACTOR.

HUTTO ISD GYM RENOVATION

200 COLLEGE STREET HUTTO, TX 78634

HUTTO ISD

200 COLLEGE STREET
HUTTO, TEXAS 78634

DATE: 03/24/2021

PROJECT NO. 20-074
DATE: 03/30/2021
DRAWN BY: Author
CHECKED BY: Checker
REVISIONS:
Date Description



REFERENCE GENERAL NOTES ON SHEETS M101, P101, AND E101 FOR ADDITIONAL INFORMATION



COMMISSIONING • FIELD INVESTIGATIONS

This document, the ideas and designs incorporated herein are and shall remain the property of Hendrix Consulting Engineers. These documents are not to be used or altered, in whole or in part, for other than the original intended use, nor are they to be assigned to any third party without written permission from Hendrix Consulting Engineers.

HCE job no.: 20-074 c

BID SET
E301
LEVEL 1 POWER PLAN

pfluger

office: 512.476.4040 1 fax: 512.476.4289
209 E. Riverside Drive Austin, Texas 78704
pflugararchitects.com

AUDIO/VISUAL MULTIMEDIA LEGEND	
	WALL AV ROUGH-IN DETAIL
	CEILING AV ROUGH-IN DETAIL
	FLOOR AV ROUGH-IN DETAIL
	INTERACTIVE WHITE BOARD - WALL - CEILING
	MULTIMEDIA PROJECTOR
	MULTIMEDIA FLAT PANEL DISPLAY
	LOUD SPEAKER, CEILING MOUNTED - # INDICATES TYPE
	CONTROL PANEL
	TOUCH PANEL
	MICROPHONE, CEILING MOUNTED - # INDICATES TYPE
	VOLUME CONTROL
	WALL BOX ENCLOSURE
	D1 = DIGITAL SINGLE SIDED CLOCK / A1 = ANALOG SINGLE SIDED CLOCK
	D2 = DIGITAL DOUBLE SIDED CLOCK / A2 = ANALOG DOUBLE SIDED CLOCK
	CEILING AV ENCLOSURE
	PRESENTATION CAMERA - CEILING - WALL MOUNTED

PREMISE SECURITY LEGEND	
	CARD READER
	CARD READER MULLION
	INTRUSION DETECTION KEYPAD
	INTERCOM (1 DATA CABLE)
	INTERCOM MASTER STATION (1 DATA CABLE)
	PANIC/DURESS BUTTON
	LOCK DOWN BUTTON
	MOTION DETECTOR
	ACOUSTICAL GLASS BREAK DETECTOR
	BIOMETRIC READER
	REQUEST TO EXIT - SURFACE PIR
	REQUEST TO EXIT - INTEGRAL TO DOOR HARDWARE
	DOOR CONTACT / MONITOR
	ELECTRIFIED STRIKE - ELECTRIFIED LATCH - ELECTRIFIED HARDWARE (REFER TO SCHEDULES)
	DOORBELL
	STANDARD IP SURVEILLANCE CAMERA, (1) CABLE
	180° MULTI-IMAGER IP SURVEILLANCE CAMERA, (1) CABLE
	360° MULTI-IMAGER IP SURVEILLANCE CAMERA, (1) CABLE
	360° FISHEYE LENS CAMERA
	IR ILLUMINATOR

TECHNOLOGY SYMBOLS LEGEND NOT ALL SYMBOLS ARE USED

AV WALL ROUGH-IN WITH DATA

KEYNOTE

Proposed Camera Direction
SURVEILLANCE CAMERA

Camera Schedule Number (Floor #-Camera #)
Camera (N)ew, (E)xisting Rough-in, (D)emo

Proposed Camera Direction
PTZ CAMERA

Proposed Camera Direction
FIXED SURVEILLANCE CAMERA

360°/MULTI-SENSOR FIXED SURVEILLANCE CAMERA

Approximate view of lens
Lens View Angle (WHEN
INTERCHANGEABLE LENS IS POSSIBLE)

360°/MULTI-SENSOR FIXED SURVEILLANCE
CAMERA OR FISHEYE LENS CAMERA

Lens size

MICROPHONE WITH AUDIO LINKED TO CAMERA

MICROPHONE WITH AUDIO LINKED TO CAMERA

SYMBOL TAG #

(#) = DIFFERENT TYPES OF CARD READERS:
M = MULLION
W = WIRELESS (Proprietary)
Wi = Wi-Fi (802.11)
POE = POWER OVER ETHERNET
K = INTEGRAL KEYPAD
HW = HARD WIRED (RS-485, WIEGAND, OSDP, ETC.)

SYMBOL TAG #

(#) = DIFFERENT TYPES OF CARD READERS:
TS = TOUCHSCREEN
PU = PUSH BUTTON

TOP = DETAIL NUMBER
DETAIL REFERENCE

BOTTOM = SHEET NUMBER

NORTH ARROW

SHEET NUMBER

SECTION MARKER
DETAIL NUMBER

DIRECTION OF ELEVATION

ELEVATION MARKER

SHEET NUMBER
DETAIL NUMBER

DIRECTION OF ELEVATION
SHEET NUMBER

DIRECTION OF ELEVATION
DETAIL NUMBER

BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE
INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY

STRUCTURED CABLING LEGEND	
	TELECOMMUNICATIONS OUTLET, # =NUMBER OF DATA CABLE(S)/JACK(S)
	TELECOMMUNICATIONS OUTLET, ## = NUMBER OF VOICE CABLE(S)/JACK(S) AND NUMBER OF DATA CABLE(S)/JACK(S)
	TELECOMMUNICATIONS OUTLET, # =NUMBER OF VOICE/DATA CABLE(S)/JACK(S), SURFACE MOUNT
	TELECOMMUNICATIONS OUTLET, ## = NUMBER OF VOICE CABLE(S)/JACK(S) AND NUMBER OF DATA CABLE(S)/JACK(S), SURFACE MOUNT
	WALL MOUNT PHONE (1 CABLE/JACK)
	WALL MOUNT PHONE, SURFACE MOUNT (1 CABLE/JACK)
	FLOOR MOUNTED OUTLET, # =NUMBER OF VOICE/DATA CABLE(S)/JACK(S) (FLOOR BOX BY E.C.)
	FLOOR MOUNTED OUTLET, ## = NUMBER OF VOICE CABLE(S)/JACK(S) AND NUMBER OF DATA CABLE(S)/JACK(S) (FLOOR BOX BY E.C.)
	CEILING MOUNTED DATA OUTLET, # =NUMBER OF VOICE/DATA CABLE(S)/JACK(S)
	CEILING MOUNTED OUTLET FOR WIRELESS ACCESS POINT #=NUMBER OF CABLE(S)/JACK(S)
	WALL MOUNTED OUTLET FOR WIRELESS ACCESS POINT #=NUMBER OF CABLE(S)/JACK(S)
	CABLING SLEEVE(S)
	TYPICAL LADDER RACK
	TYPICAL CABLE TRAY, BASKET STYLE

GENERAL ANNOTATION LEGEND	
	MAIN EQUIPMENT ROOM
	TELECOMMUNICATION ROOM
	MAIN DISTRIBUTION FRAME
	INTERMEDIATE DISTRIBUTION FRAME
	EXISTING TO REMAIN
	ABOVE FINISHED FLOOR
	ABOVE FINISHED GRADE
	ABOVE COUNTER
	ELECTRICAL CONTRACTOR
	UNLESS NOTED OTHERWISE
	ACCESS CONTROL SYSTEM
	VIDEO SURVEILLANCE SYSTEM

TECHNOLOGY SHEET INDEX	
SHEET NUMBER	SHEET NAME
T000	TECHNOLOGY - INDEX SHEET
T010	TECHNOLOGY - SITE PLAN
T101	TECHNOLOGY - 01 FLOOR PLAN
T500	TECHNOLOGY DETAILS
T501	TECHNOLOGY DETAILS
T600	SECURITY DETAILS
T601	SECURITY DETAILS
T700	AV DETAILS
T701	AV DETAILS
T702	AV DETAILS

TECHNOLOGY - GENERAL NOTES

- EACH KEYNOTE MAY NOT BE UTILIZED ON EVERY SHEET.
- ALL CONDUIT MEASUREMENTS REFER TO STANDARD CONDUIT TRADE SIZES.
- ALL CABLES SHALL BE CONCEALED.
- EACH CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY SLEEVES, WHETHER OR NOT SPECIFICALLY NOTED ON PROJECT DRAWINGS. ALL SLEEVES SHALL BE 1-1/4" UNLESS NOTED OTHERWISE ON THE DRAWINGS. CABLE FILL PERCENTAGE SHALL COMPLY WITH NEC.
- DEVICE LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL REVIEW CONDITIONS AND COORDINATE WITH OTHER TRADES AS NECESSARY FOR EXACT PLACEMENT.

trueNORTH
consulting group
3408 Hillcrest Drive
Waco, TX 76708
ph: 512.451.5445 fax: 512.451.8777
www.tnccg.com

BID SET
T000
TECHNOLOGY - INDEX
SHEET

HUTTO ISD
200 COLLEGE STREET
HUTTO, TEXAS 78634

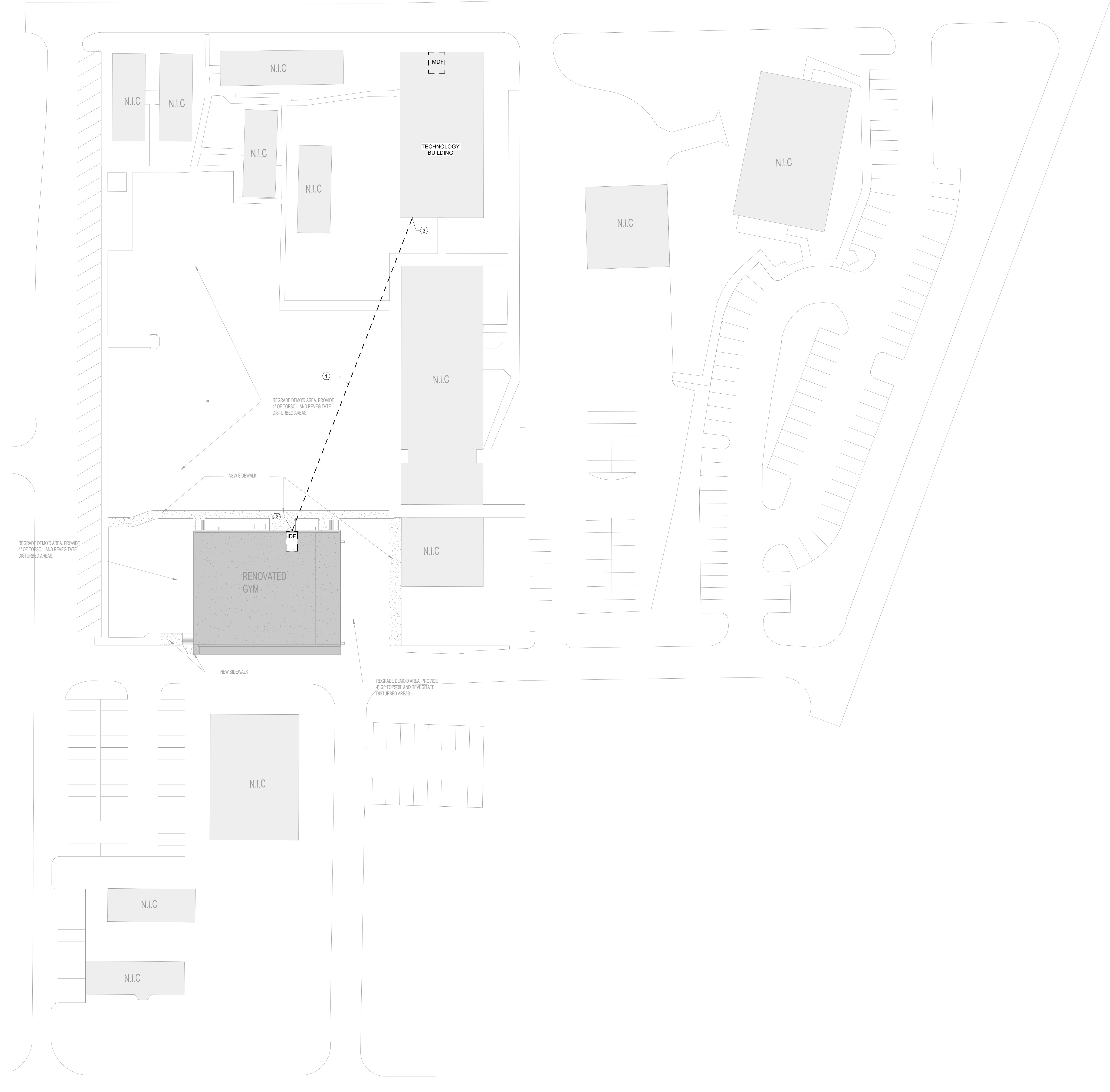
REGISTERED COMMUNICATIONS
DISTRIBUTION
BICSI
OSP SPECIALIST #17PM
EXPIRES: 12/31/21
Reg. No. 117065
SIGNATURE
DATE: 02/26/21

PROJECT NO. 20-038
DATE: 02/24/2021
DRAWN BY: RT
CHECKED BY: JMM
REVISIONS:
Date Description

HUTTO ISD GYM RENOVATION
200 COLLEGE STREET HUTTO, TX 78634

pfluger
office: 512.476.4040 f fax: 512.476.4289
209 E Riverside Drive Austin, Texas 78704
pflugararchitects.com

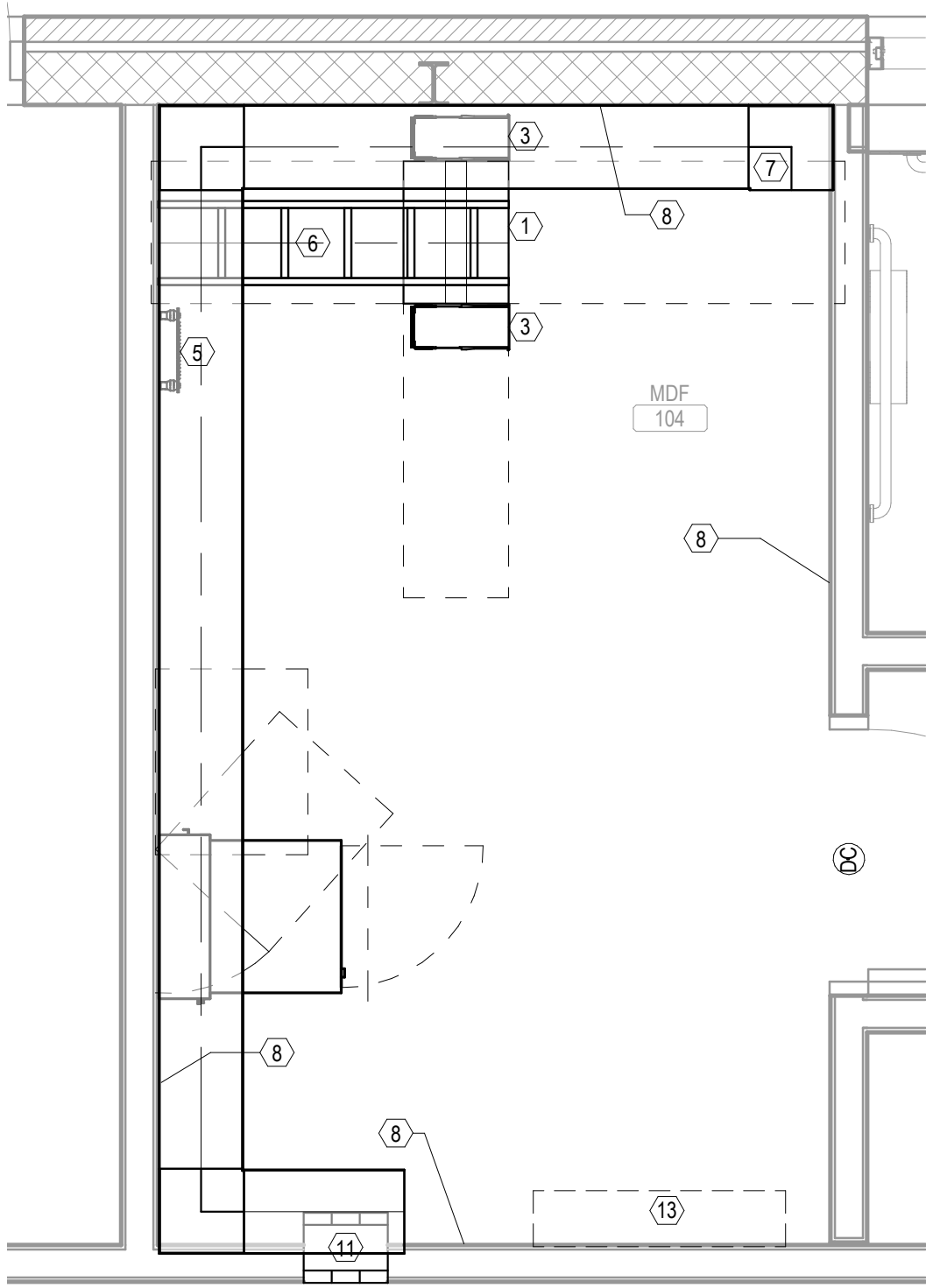
Page 54 of 135



1 TECHNOLOGY - SITE PLAN
1" = 30'-0"

SITE PLAN KEYNOTES	
1	NEW OSP OS2 SINGLE MODE FIBER OPTIC CABLE TO BE RUN FROM EXISTING MDF IN TECHNOLOGY BUILDING. PATHWAY INTENT IS AERIAL. REFER TO SPECIFICATIONS FOR FURTHER DIRECTION.
2	PROVIDE JUNCTION BOX AT THIS POINT WITH PENETRATION INTO MDF. FIELD COORDINATE EXACT PENETRATION LOCATION AND REFER TO SPECIFICATIONS AHEAD OF INSTALLATION.
3	FIELD COORDINATE EXACT PENETRATION LOCATION. USE EXISTING PENETRATION POINT. PENETRATION SHALL BE FIRESTOPPED.

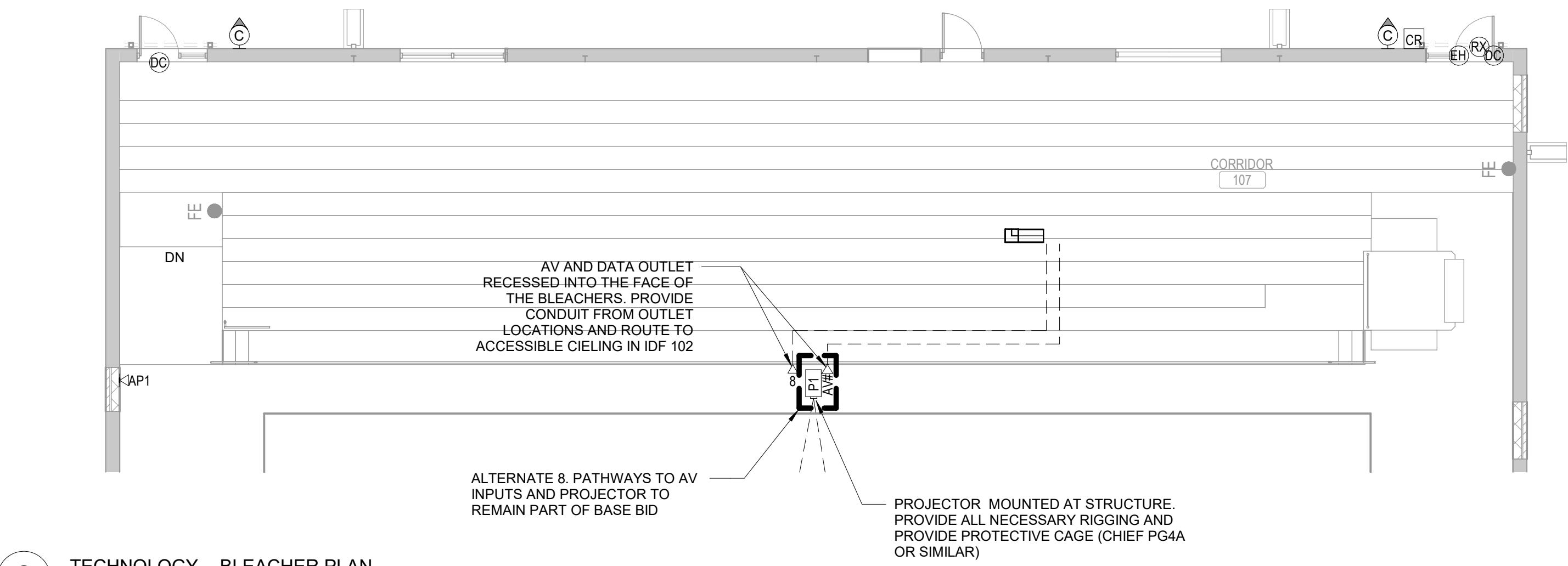
ENLARGEMENT KEYNOTES	
①	2-POST RACK, SECURED TO FLOOR WITH EXPANSION ANCHORS, FIRST RACK SHALL BE 6" FROM WALL, IF VERTICAL WIRE PRESENT BETWEEN RACK AND WALL THEN VERTICAL WIRE MANAGER ATTACHED TO WALL SIDE OF RACK SHALL BE 6" FROM WALL. (TYPICAL)
②	4-POST RACK, SECURED TO FLOOR WITH EXPANSION ANCHORS, FIRST RACK SHALL BE 6" FROM WALL, IF VERTICAL WIRE PRESENT BETWEEN RACK AND WALL THEN VERTICAL WIRE MANAGER ATTACHED TO WALL SIDE OF RACK SHALL BE 6" FROM WALL. (TYPICAL)
③	6" VERTICAL WIRE MANAGER SECURED TO SIDE OF RACK (TYPICAL)
④	10" VERTICAL WIRE MANAGER SECURED TO SIDE OF RACK (TYPICAL)
⑤	GROUND BUS BAR, MOUNTED 6" AFF, ELECTRON PLATED AND PREDRILLED TO ACCEPT STANDARD TWO-HOLE LUGS.
⑥	18"x2" LADDER RACK SECURED TO TOP OF RACK WITH LADDER RACK MOUNTING PLATE AND BOLTED TO WALL, WITH WATER FALLS INTO VERTICAL WIRE MANAGERS (TYPICAL)
⑦	12"x4" CABLE TRAY (BASKET STYLE) WITH 6" CLEARANCE FROM WALL (TYPICAL)
⑧	3/4" FIRED RATED PLYWOOD SECURED TO WALL AT 22" AFF. IF THE PLYWOOD IS PAINTED, THE PAINT SHALL BE FIRE RETARDANT PAINT ON BOTH SIDES AND THE RATING STAMP ON THE PLYWOOD SHALL BE EXPOSED.
⑨	(4) 4" CONDUIT SLEEVES STUBBED UP 4" FROM FLOOR BELOW, WITH UL-LISTED 2-HOUR RATED RE-ENTERABLE FIRE STOP SYSTEM.
⑩	(4) 4" CONDUIT SLEEVES STUBBED UP TO FLOOR ABOVE, WITH UL-LISTED 2-HOUR RATED RE-ENTERABLE FIRE STOP SYSTEM.
⑪	FIRESTOP SLEEVES, STI EZPATH OR HILTI SPEED SLEEVES.
⑫	SPACE RESERVED FOR TELEPHONE TERMINAL BLOCKS OR FRAME.
⑬	SPACE RESERVED FOR SECURITY PANELS.



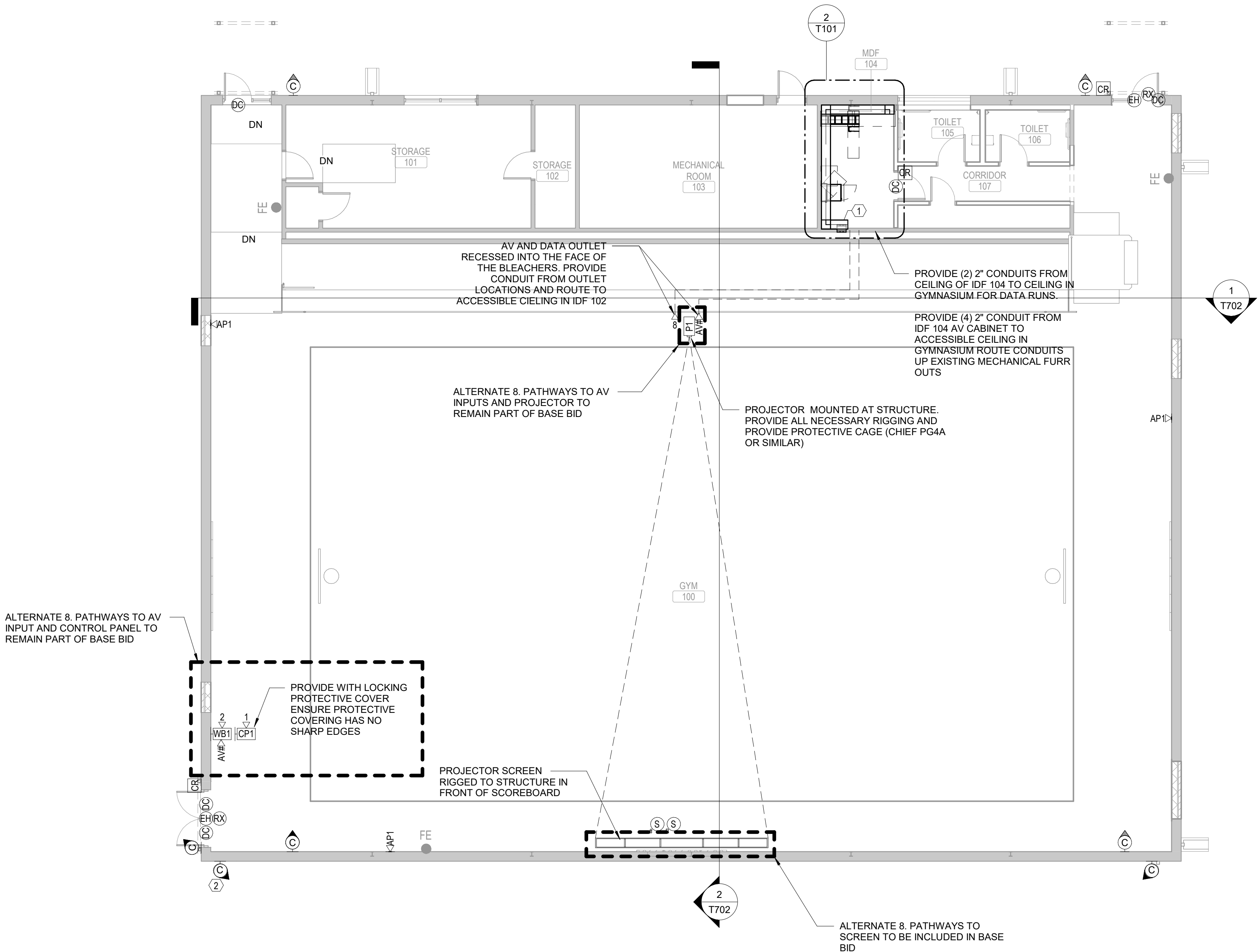
2 TECHNOLOGY - GYM RENOVATION - LEVEL 1 - MDF 104
SCALE: 1/2" = 1'-0"

- GENERAL NOTE:
1. CONTRACTOR SHALL RUN ALL CABLING ALONG TRUSSES, SUPPORT AND CONCEAL ALL CABLING.
 2. RIG ALL SPEAKERS TO STRUCTURE AND ROUTE ALL CABLING ALONG JOIST. UTILIZE BRIDLE RINGS OR OTHER APPROVED METHODS TO CONCEAL CABLING. (TYP OF ALL CABLING AND GYMNASIUM DEVICES)

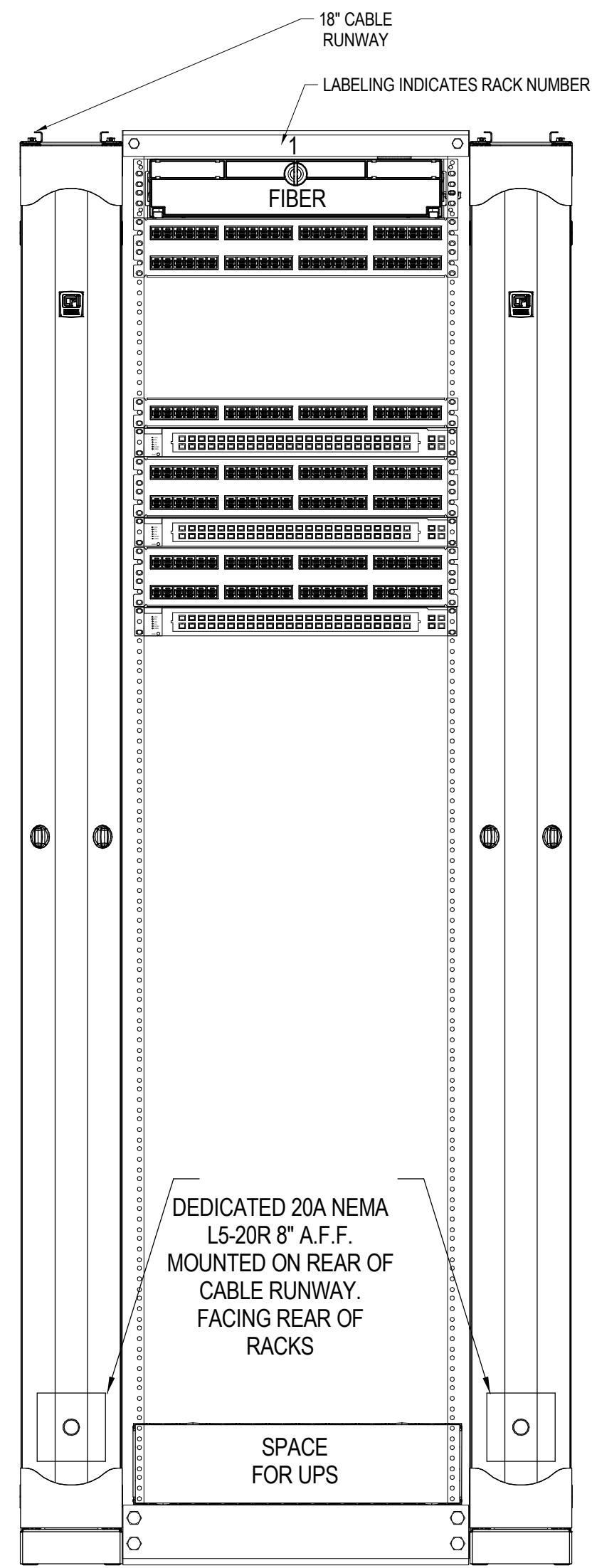
TECHNOLOGY KEYNOTES	
①	INSTALL CABLE TRAY ALONG SLOPED CEILING OVER TO MDF PENETRATION POINT.
②	SURVEILLANCE SECURITY CONTRACTOR SHALL SET THIS EXTERIOR CAMERA TO 95 DEGREES HFOV TO CAPTURE BOTH THE ADMIN ENTRANCE, AS WELL AS THE SIDE ADMIN ENTRANCE. OWNER SHALL HAVE FINAL SAY ON ALL VIEWS PRIOR TO CLOSOUT.



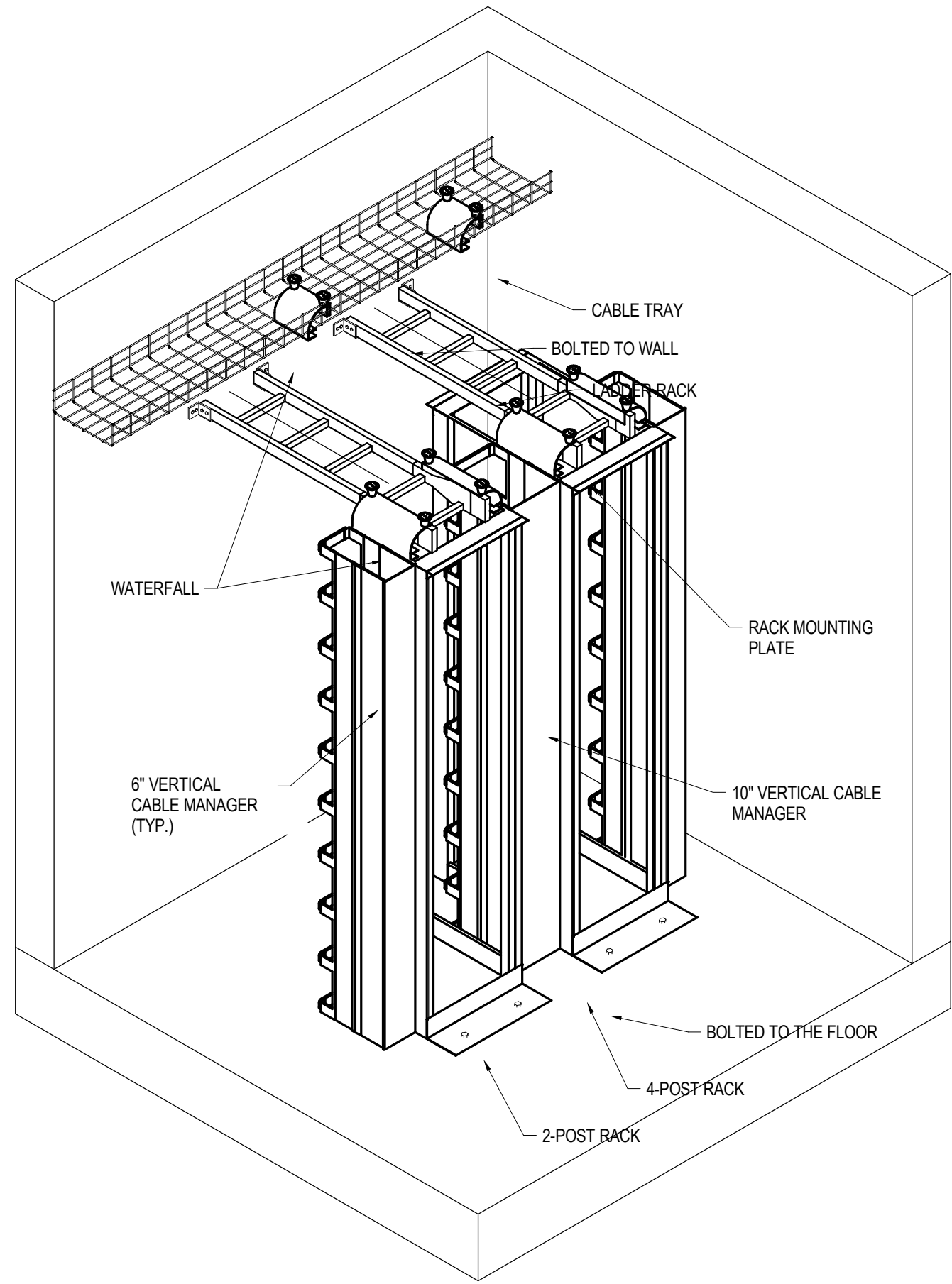
3 TECHNOLOGY - BLEACHER PLAN
SCALE: 1/8" = 1'-0"



1 TECHNOLOGY - GYM RENOVATION - LEVEL 1
SCALE: 1/8" = 1'-0"

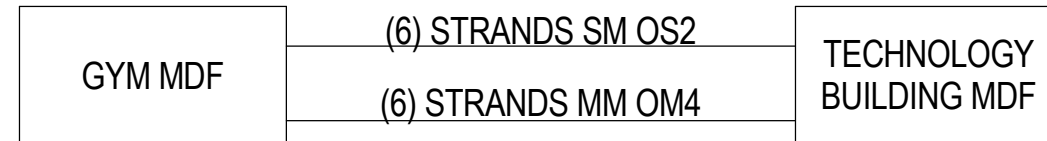


1 TYPICAL IDF RACK ELEVATION
SCALE: NTS

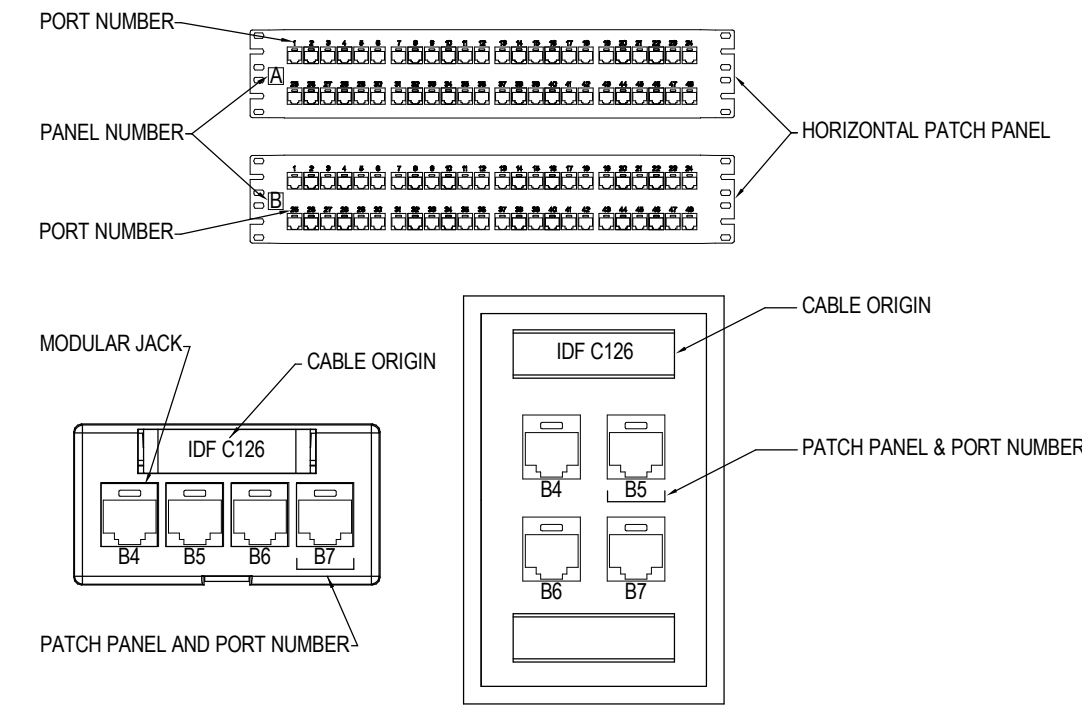


2 TYPICAL TELECOMMUNICATIONS ROOM DETAIL
SCALE: NTS

GENERAL NOTE:
OSP CONTRACTOR MAY UTILIZE AERIAL FIBER PATHWAYS.
ENSURE ALL PEDESTRIAN CROSSINGS ARE CLEAR AND FOLLOW
ALL SPECIFICATION GUIDELINES. CONTRACTOR SHALL PROVIDE
THE PROPER RATED CABLE AND TRANSITIONS, AS REQUIRED BY
STANDARDS AND BUILDING CODE.



3 WAN/OSP LOGICAL BACKBONE DIAGRAM
SCALE: NTS

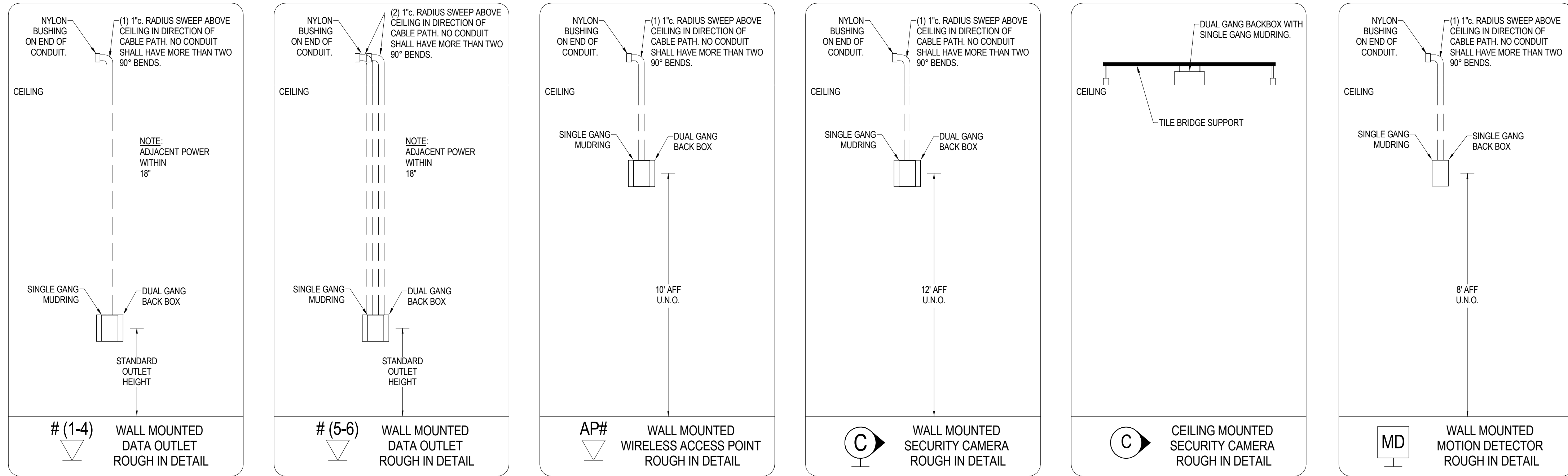


NOTE: 1) CABLE SHALL HAVE IDENTICAL LABEL AT BOTH ENDS
2) EACH PATCH PANEL SHALL BE UNIQUELY LABELED ALPHABETICALLY IN EACH MDF OR IDF

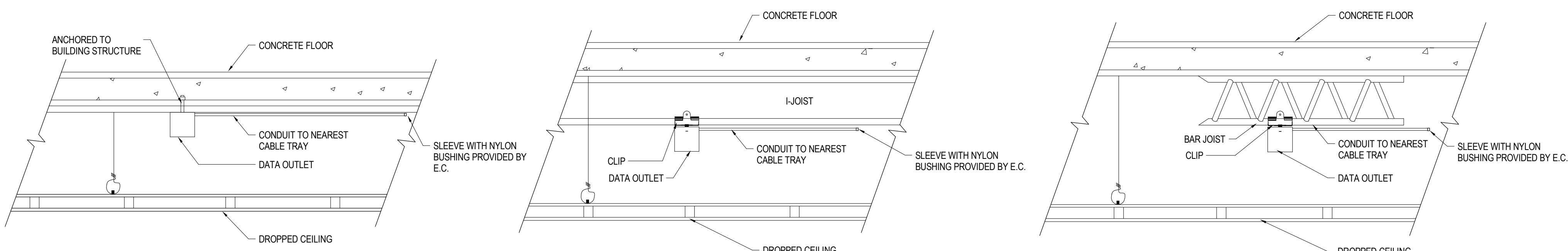
HORIZONTAL DATA CABLE LABELING SCHEME

4 LABELING & CABLING SCHEMES
SCALE: NTS

ALL TECHNOLOGY JUNCTION BOXES TO HAVE
NOMINAL DEPTH OF 3-1/2" UNLESS NOTED
OTHERWISE



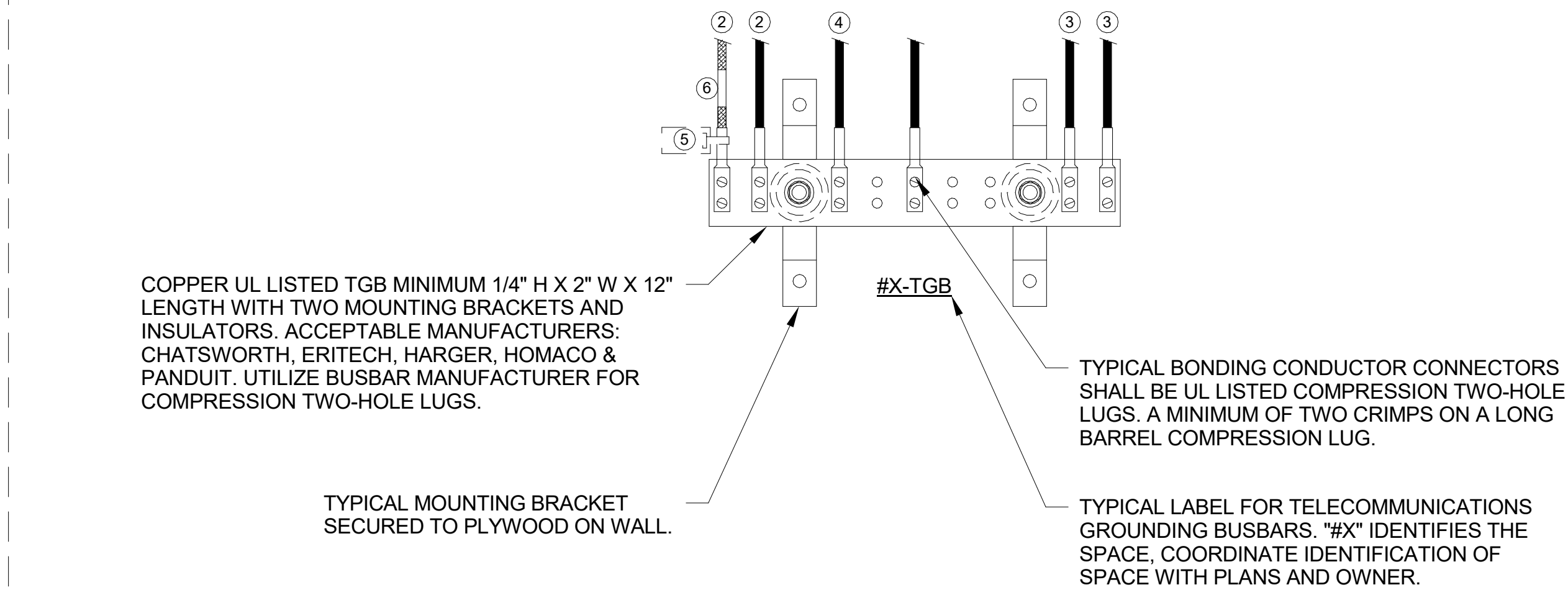
5 TECHNOLOGY ROUGH-IN DETAILS - BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE
SCALE: NS



6 DROPPED CEILING MOUNTING DETAIL
SCALE: NS

7 I-JOIST MOUNTING DETAIL
SCALE: NS

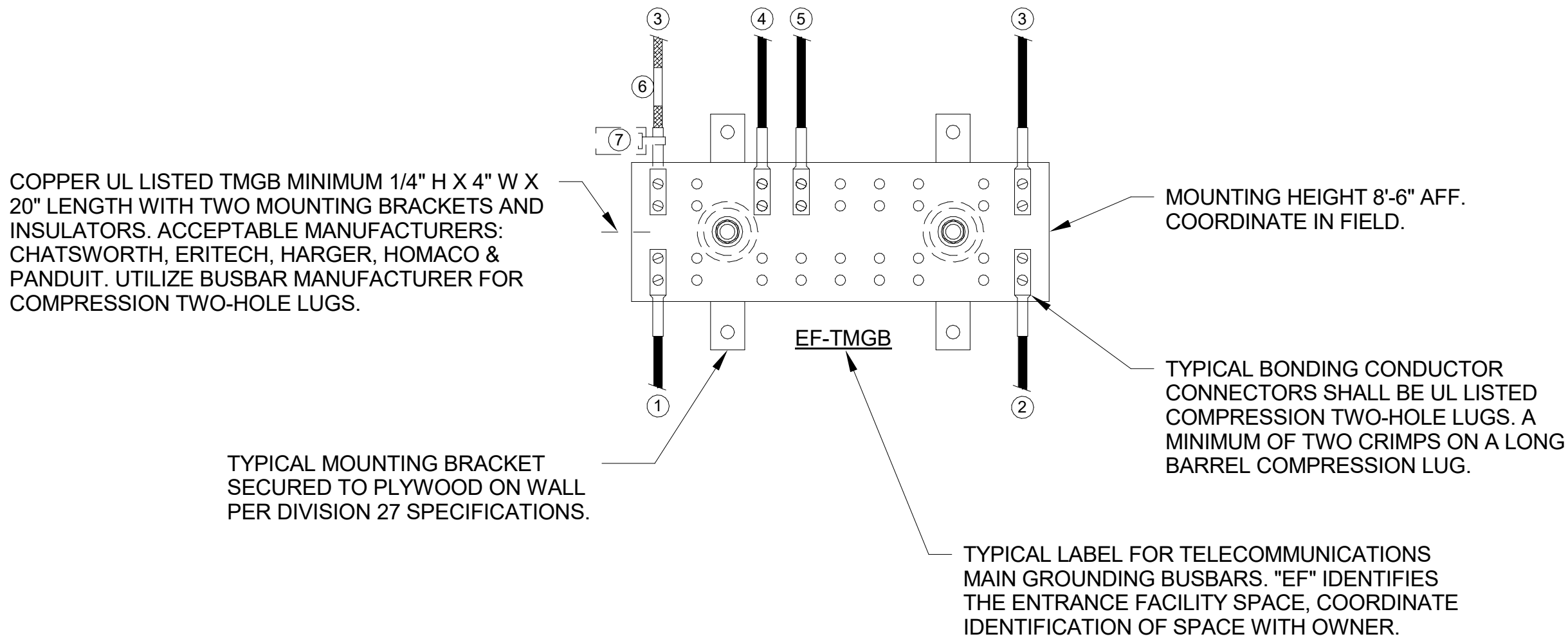
8 BAR JOIST MOUNTING DETAIL
SCALE: NS



- ### TGB GROUNDING & BONDING NOTES
- BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT) TO BUILDING MAIN ELECTRICAL GROUND SYSTEM.
 - BCT TO TELECOMMUNICATIONS CABLE RUNWAYS(S), RACK(S), CABINET(S) AND APPLICABLE EQUIPMENT. DAISY CHAINING OF BCT AT RELAY RACKS IS NOT ACCEPTABLE. EACH RACK IS TO HAVE A BCT TO A COMPRESSION LUGTAP TO DEDICATED HOME RUN ACT BACK TO THE TGB. SEE DETAILS.
 - TYPICAL TBB(S) THAT INTERCONNECTS ALL IDF TGB(S) WITH THE TMGB.
 - BONDING CONDUCTOR TO EACH ARMORED FIBER JACKET. IDF SIDE ONLY.
 - TYPICAL OF ALL BONDING CONDUCTORS WITH IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-607-B) "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".
 - TYPICAL OF ALL BONDING CONDUCTORS CABLE IDENTIFIER/ LABEL.

BONDING CONDUCTOR SIZING CHART

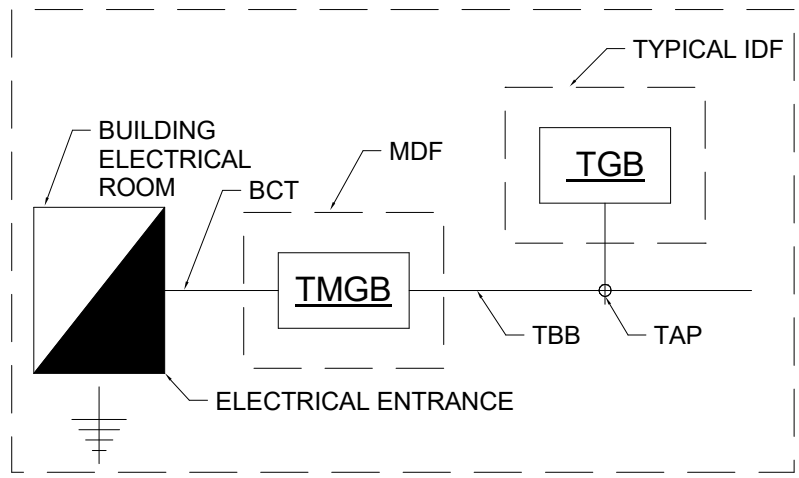
LENGTH (FEET)	SIZE (AWG)
LESS THAN (<) 13'	# 6
14' - 20'	# 4
21' - 26'	# 3
27' - 33'	# 2
34' - 41'	# 1
42' - 52'	# 1/0
53' - 66'	# 2/0
GREATER THAN (>) 66'	# 3/0



- ### TMGB GROUNDING & BONDING RISER NOTES
- BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT) TO BUILDING GROUNDING ELECTRODE. BCT SHALL NOT BE SMALLER THEN THE TBB.
 - BCT TO NEAREST BUILDING STEEL STRUCTURE. IF APPLICABLE UTILIZED EXOTHERMIC WELDING CONNECTION TO BUILDING STEEL.
 - TELECOMMUNICATIONS BONDING BACKBONE (TBB) FOR GROUNDING EQUALIZER (GE), IF APPLICABLE.
 - TYPICAL TBB(S) THAT INTERCONNECTS ALL TGB(S) WITH THE TMGB.
 - BCT TO TELECOMMUNICATIONS CABLE RUNWAYS(S), RACK(S), CABINET(S) AND APPLICABLE EQUIPMENT. DAISY CHAINING OF BCT AT RELAY RACKS IS NOT ACCEPTABLE. EACH RACK IS TO HAVE A BCT TO A COMPRESSION LUG TAP TO DEDICATED HOMERUN ACT BACK TO THE TGB. SEE DETAILS.
 - TYPICAL OF ALL BONDING CONDUCTORS CABLE IDENTIFIER/ LABEL.
 - TYPICAL OF ALL BONDING CONDUCTORS WITH IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-607-B) "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".

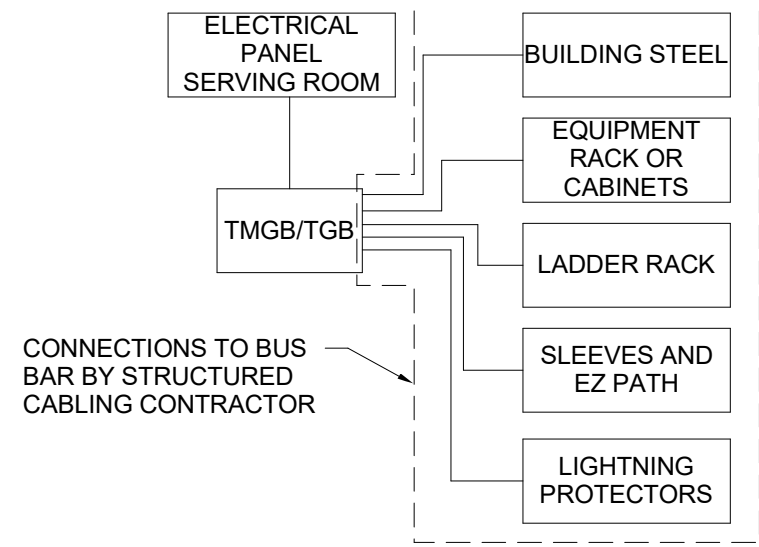
- ### GROUNDING & BONDING GENERAL NOTES
- ELECTRICAL CONTRACTOR RESPONSIBILITY -TELECOMMUNICATION MAIN GROUNDING BUSBAR (TMGB), TELECOMMUNICATION GROUNDING BUSBAR(S) (TGBS), AND THE BONDING CONDUCTORS TO THE BUILDING GROUNDING ELECTRODE, BUILDING STRUCTURAL STEEL, AND BONDING OF ALL TGBS TO THE TMGB SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
 - ALL GROUNDING OF OF EQUIPMENT, RACKS, CABINETS, AND DEVICES SHALL BE THE RESPONSIBILITY OF THE DIVISION 27 TECHNOLOGY CONTRACTOR.
 - FASTENING BONDING CONNECTOR TWO-HOLE LUGS TO ALL BUSBARS SHALL BE CLEANED AND APPLY A COPPER ANTI-OXIDANT TO THE CONTACT AREA OF BOTH THE CONNECTOR LUG AND THE BUSBAR.
 - BONDING CONDUCTORS AND BUSBARS SHALL BE LABELED. WITH IDENTIFICATION IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA/EIA-606-B.
 - BONDING CONDUCTORS SHALL BE LABELED WITH IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-607-B) "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".
 - STRUCTURED CABLING CONTRACTOR SHALL PERFORM CONTINUITY TESTING MEASUREMENTS OF THE GROUNDING RESISTANCE TO NOT EXCEED 0.1 OHM
A. THE TGB AND THE NEAREST GROUNDING ELECTRODE.
B. THE TGB AND THE NEAREST GROUNDING ELECTRODE.
C. EACH TGB AND THE PATHWAY(S), RACK(S), CABINETS(S) AND APPLICABLE EQUIPMENT.

1 GROUNDING AND BONDING DETAIL
SCALE: NS

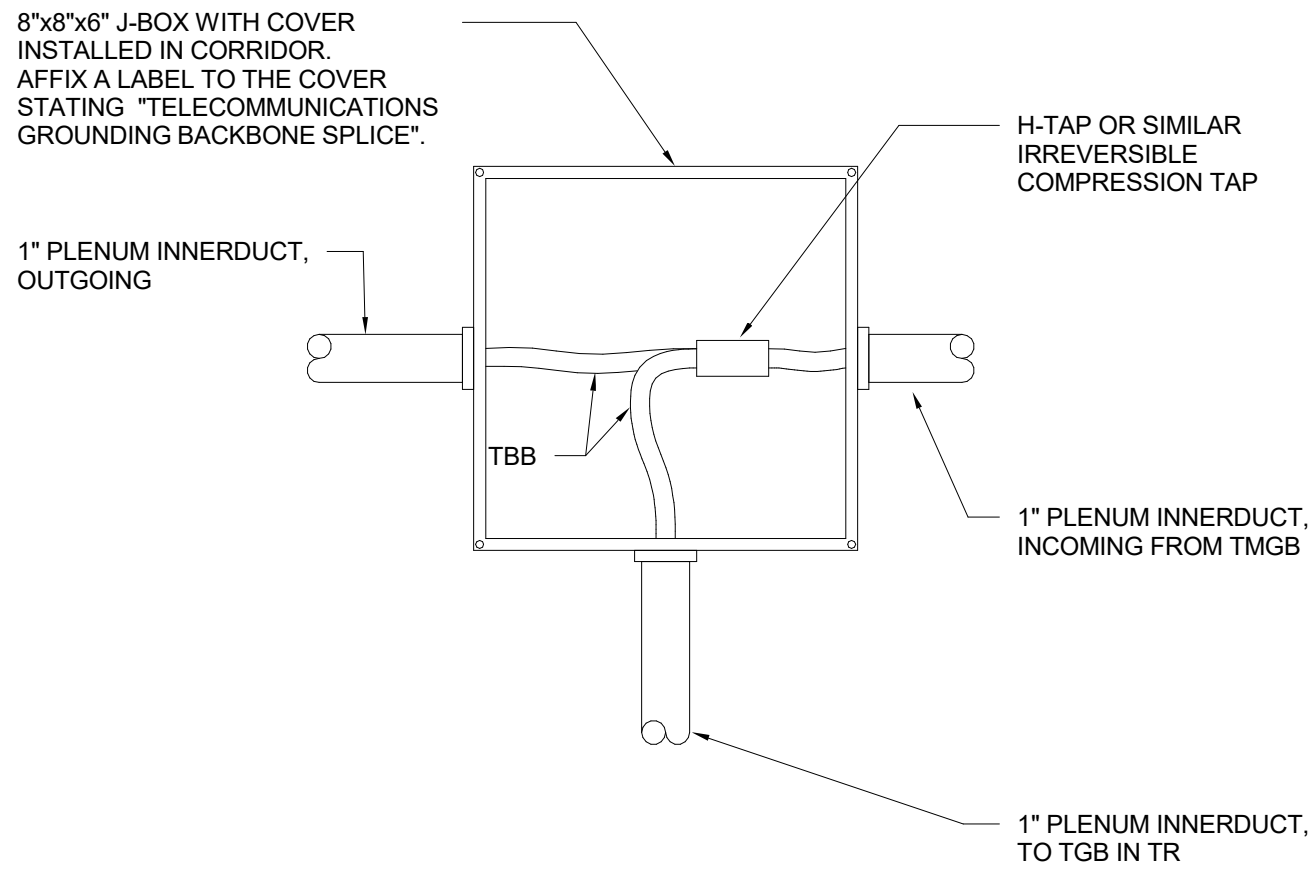


NOTES:
TMGB = Telecommunications main grounding busbar
TGB = Telecommunications main grounding busbar
TBB = Telecommunications bonding backbone
BCT = Bonding conductor for telecommunications
TAP = Conductor connects into a main feeder line
MDF = Main distribution frame
IDF = Independent distribution frame

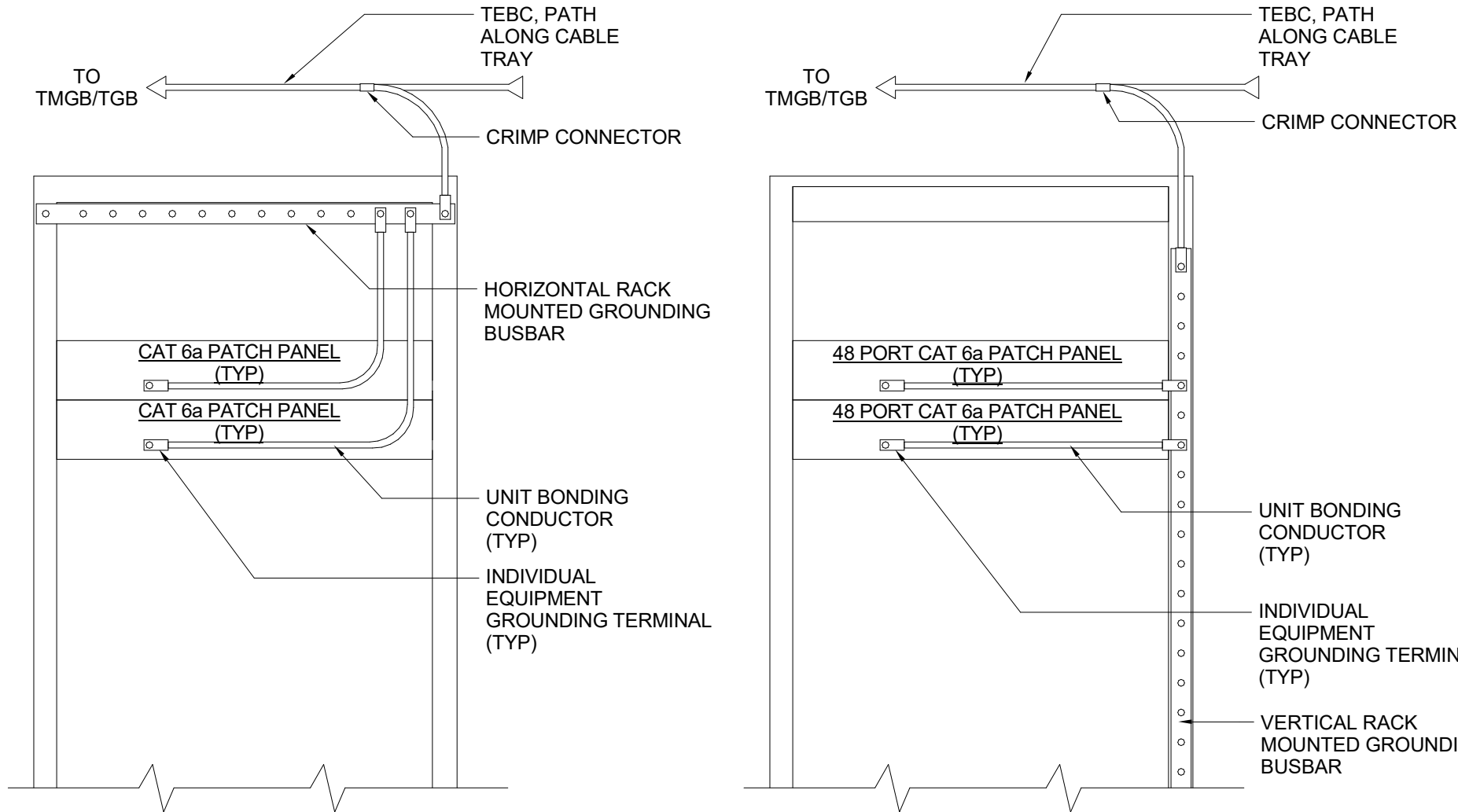
2 TYPICAL GROUNDING FLOW DIAGRAM
SCALE: NS



3 TELECOM ROOM BONDING DIAGRAM
SCALE: NS



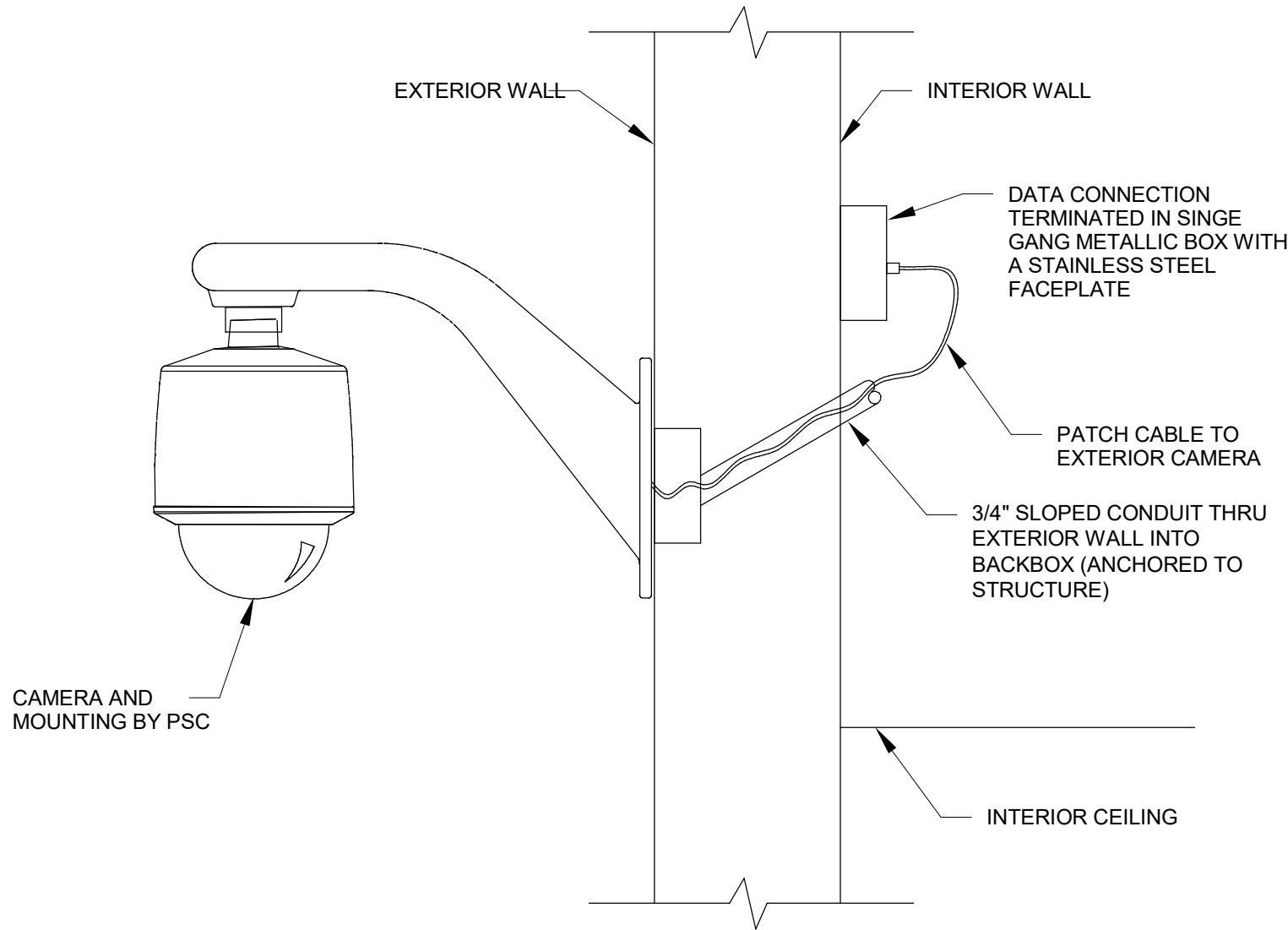
4 TELECOM BONDING BACKBONE SPLICE DETAIL
SCALE: NS



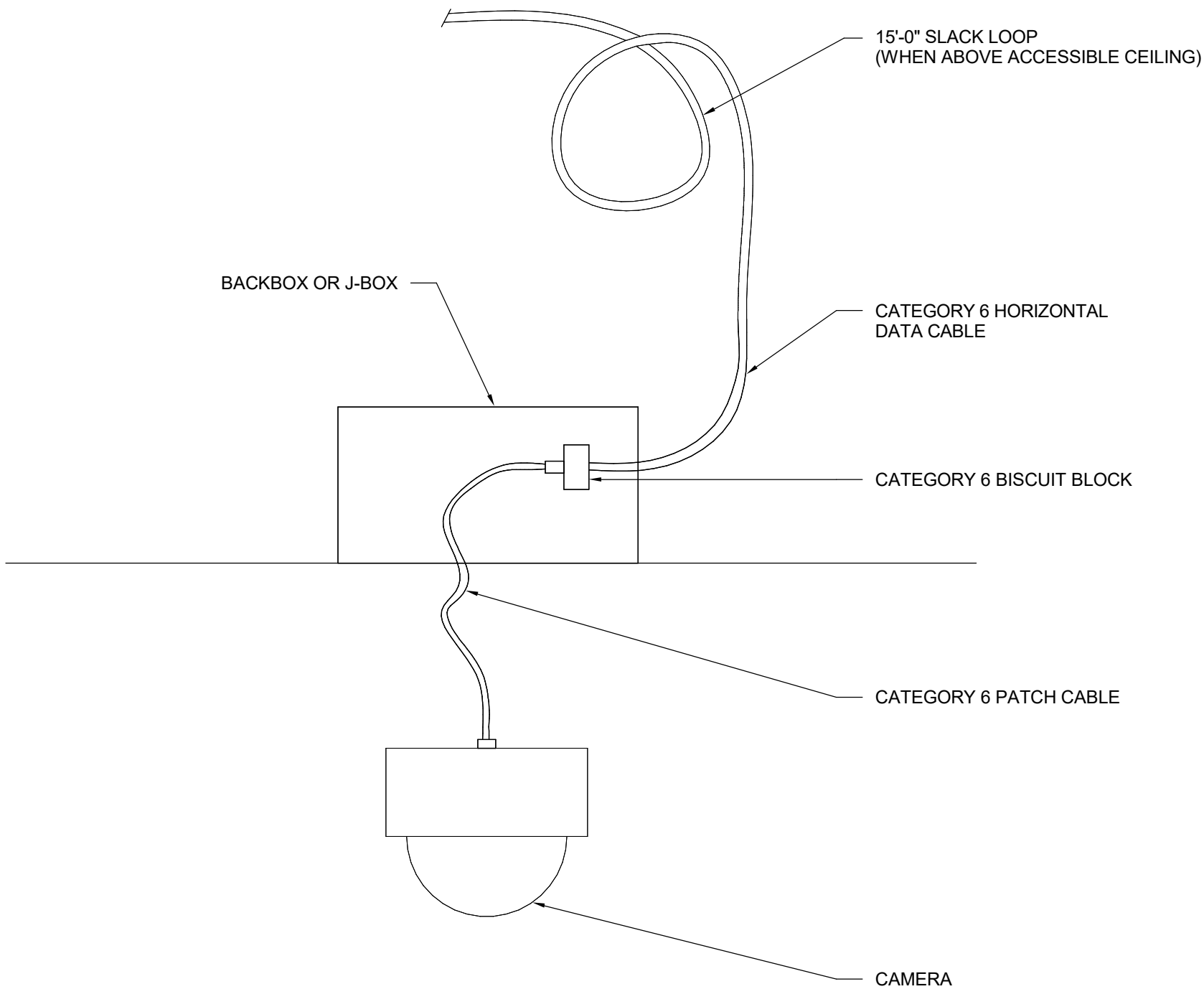
5 RACK MOUNTED GROUNDING BAR DETAIL
SCALE: NS

GENERAL NOTES:

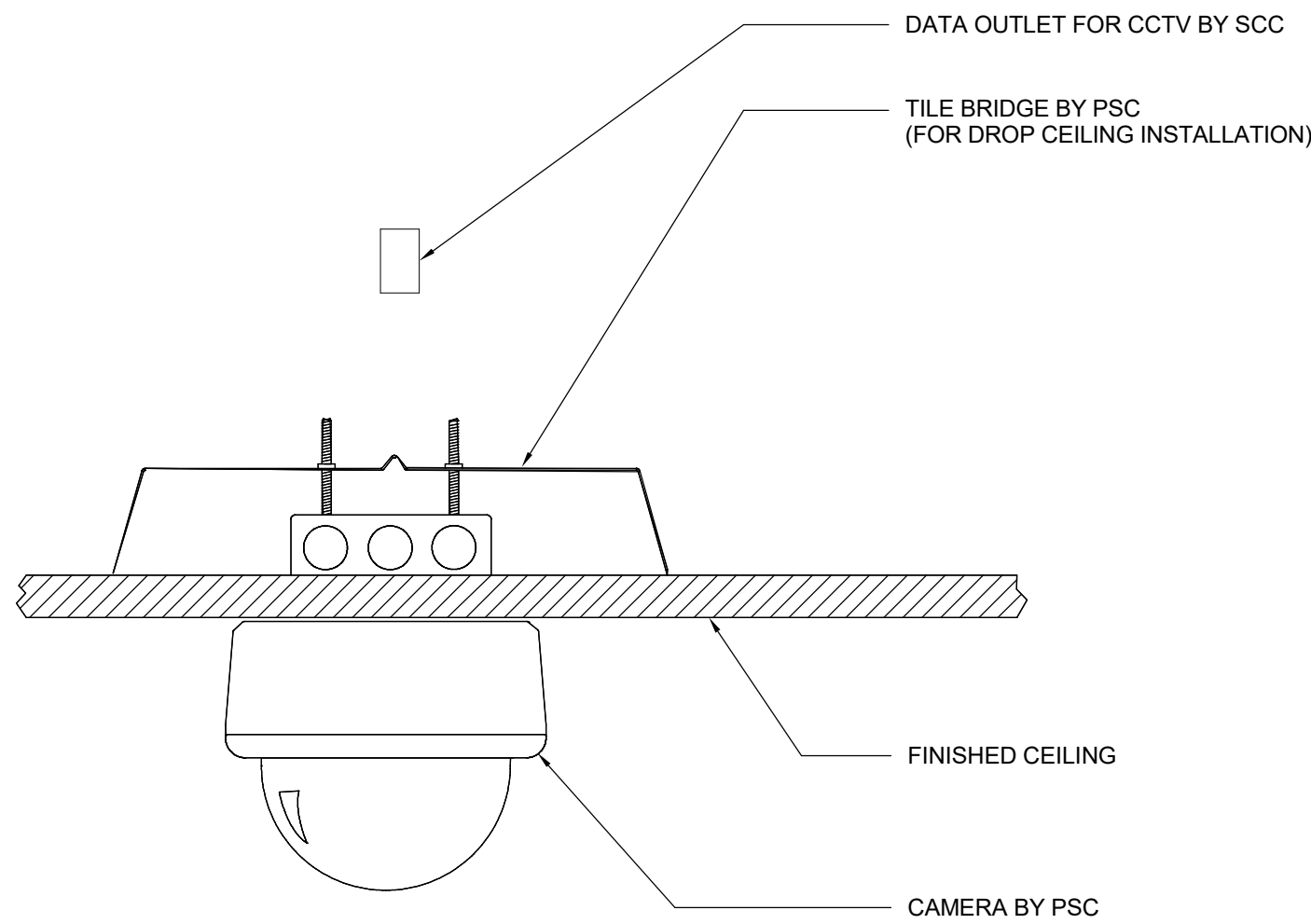
- 1. REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 2. PROVIDE WEATHER PROOF/WATER RESISTANT ENCLOSURE FOR ALL EXTERIOR CAMERAS.
- 3. ALL CABLES FROM CAMERAS SHALL BE INSTALLED IN FLEXIBLE AND/OR RIGID CONDUIT.
- 4. ALL MOUNTING DETAILS ARE REFERENCE FOR ALL FIXED DOME, 180°, 360°, PTZ, AND "BULLET/BOX" CAMERAS.



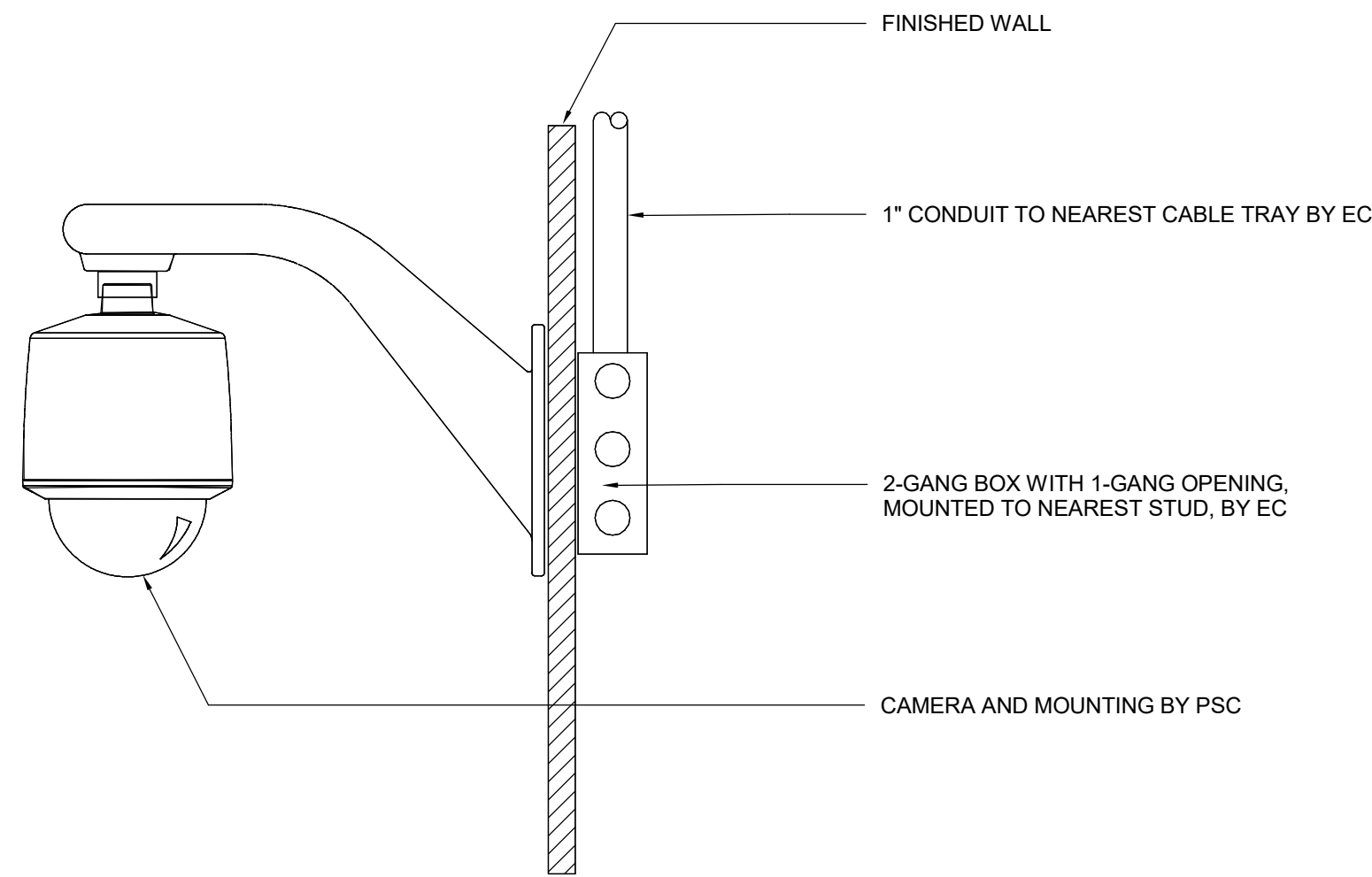
1 EXTERIOR WALL MOUNTED CAMERA DETAIL
SCALE: NTS



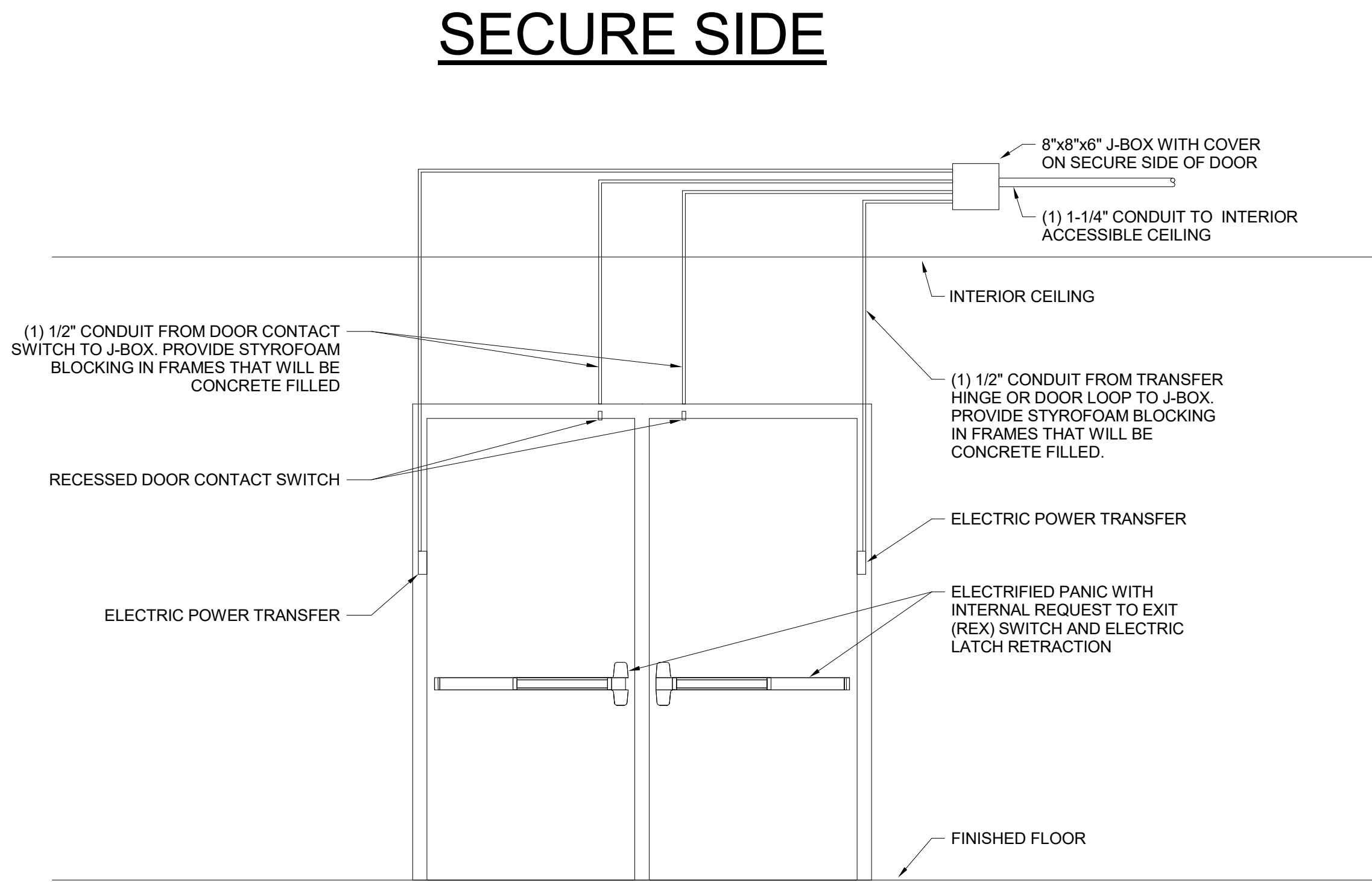
2 TYPICAL CAMERA INSTALLATION SECTION DETAIL
SCALE: NS



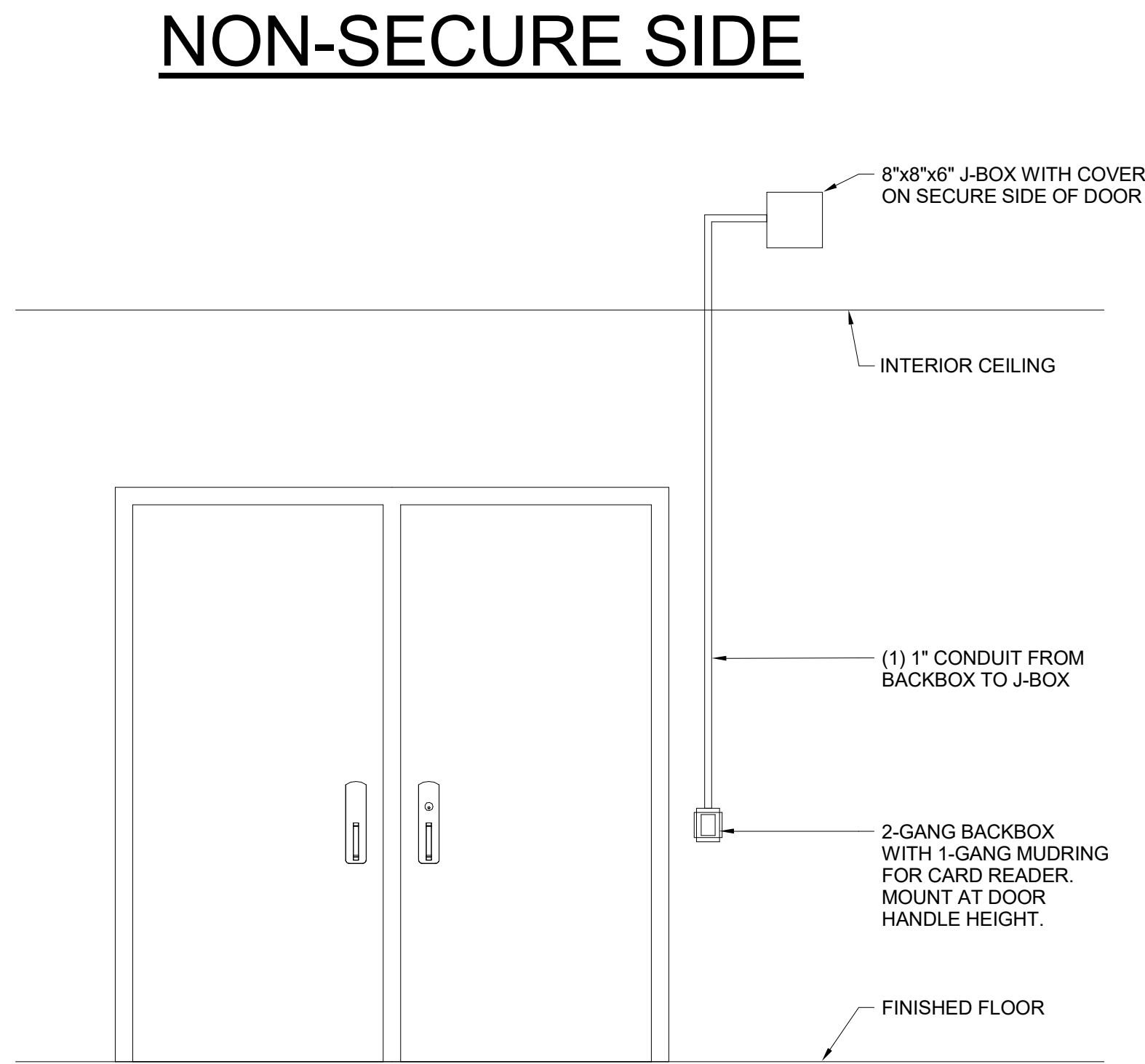
3 CEILING MOUNTED CAMERA DETAIL
SCALE: NS



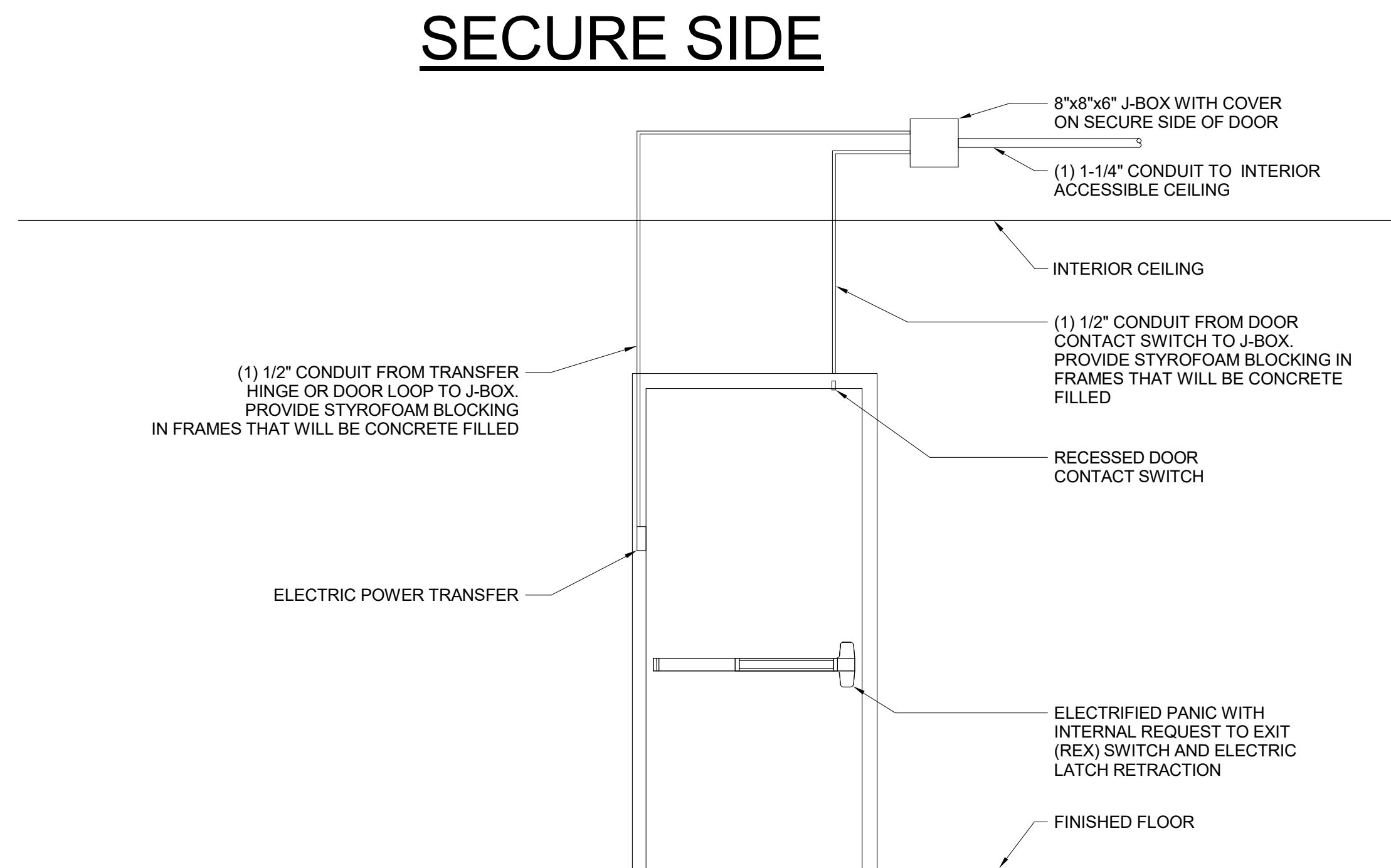
4 WALL MOUNTED CAMERA DETAIL
SCALE: NS



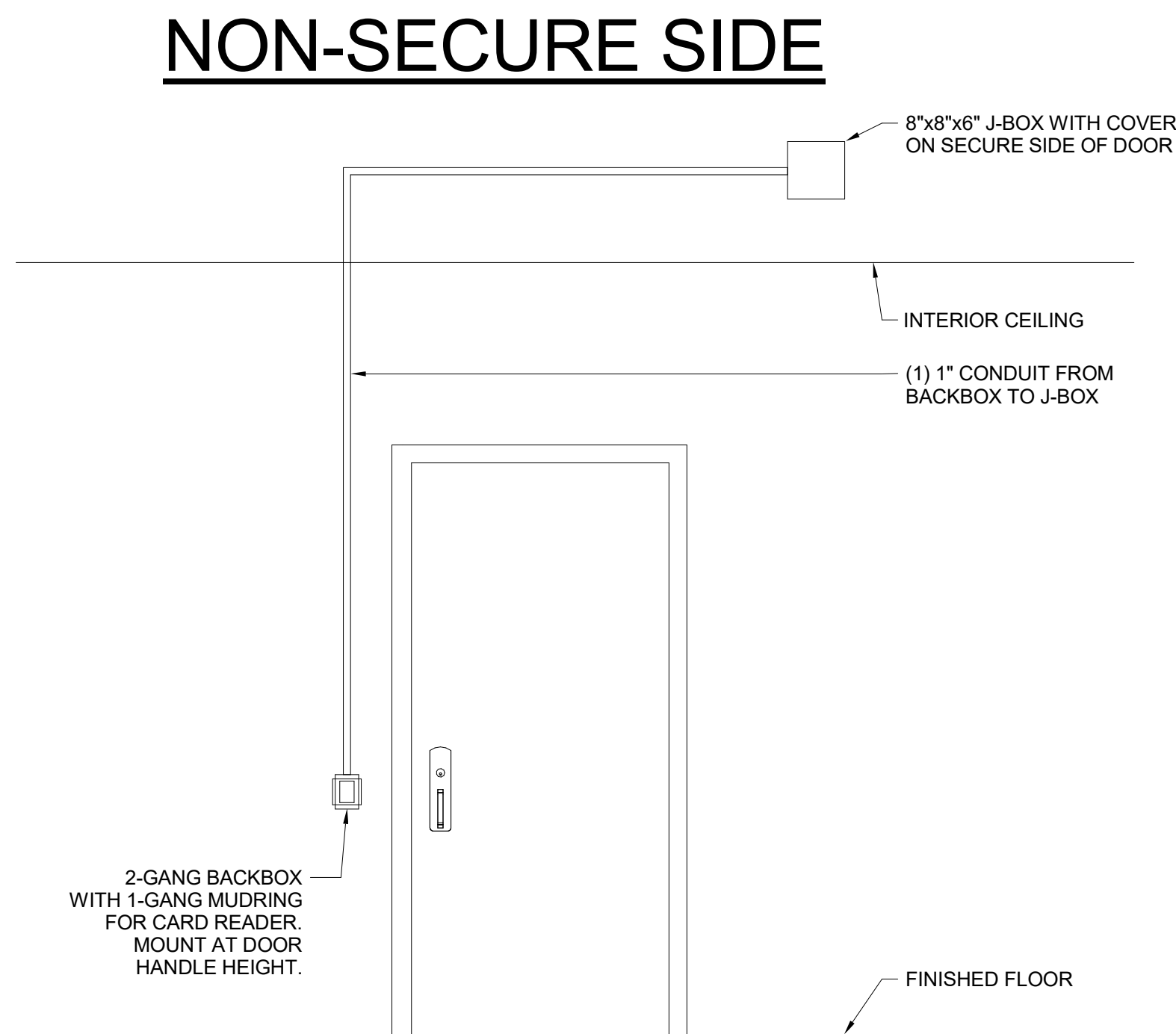
1 TYPICAL UNIVERSAL DOUBLE DOOR ROUGH-IN DETAIL - CR TYPE 1
SCALE: NTS

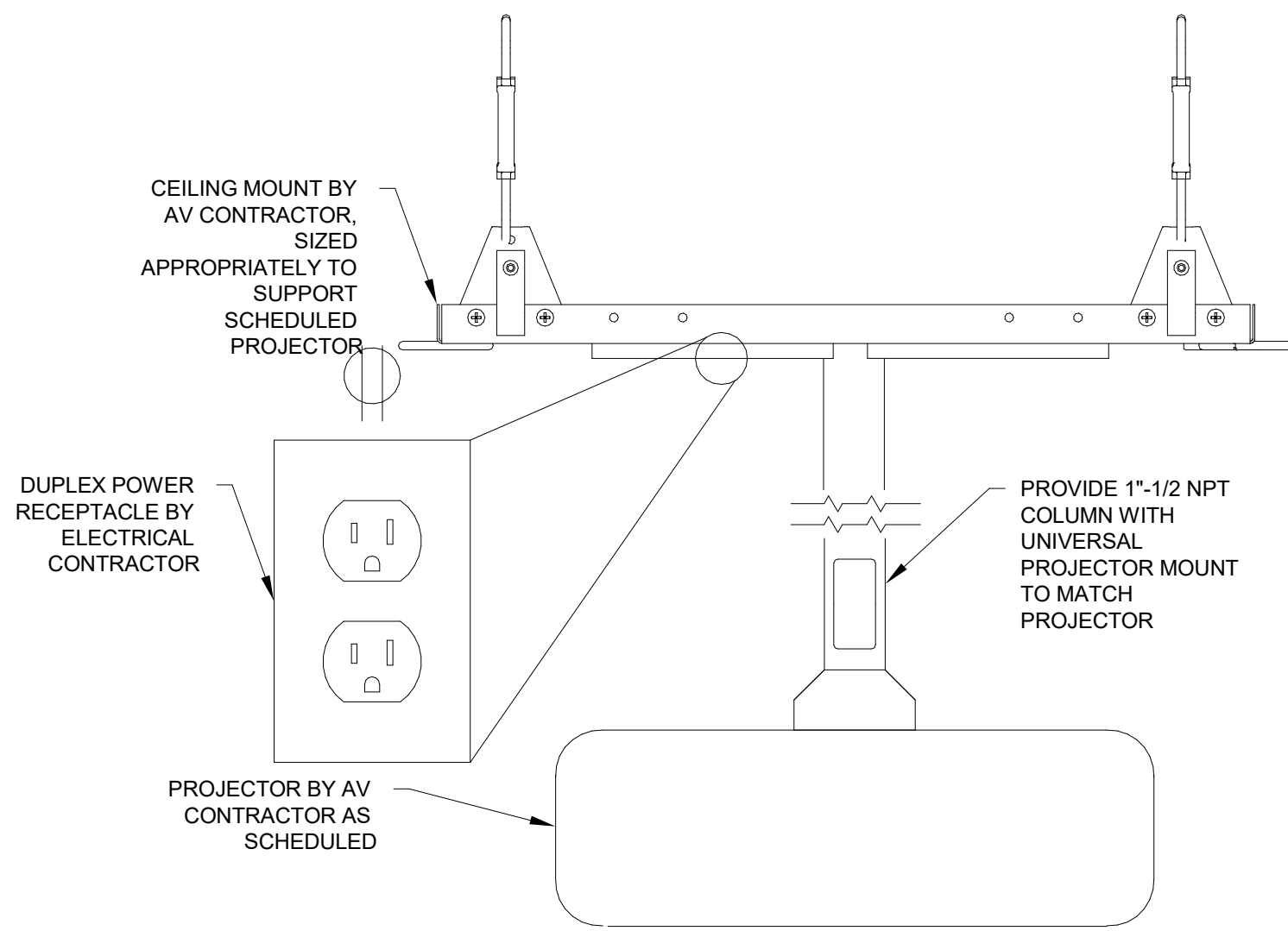
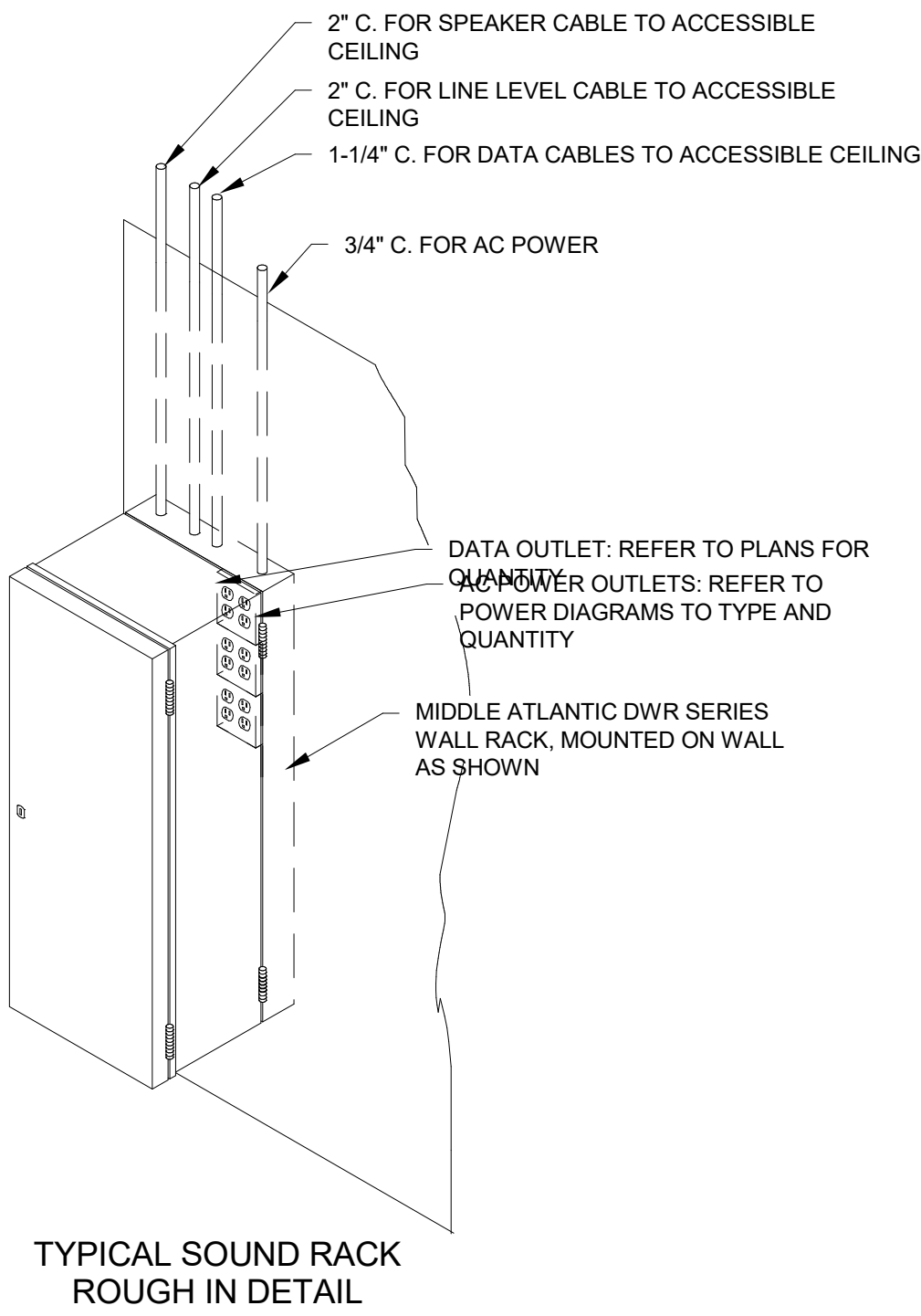
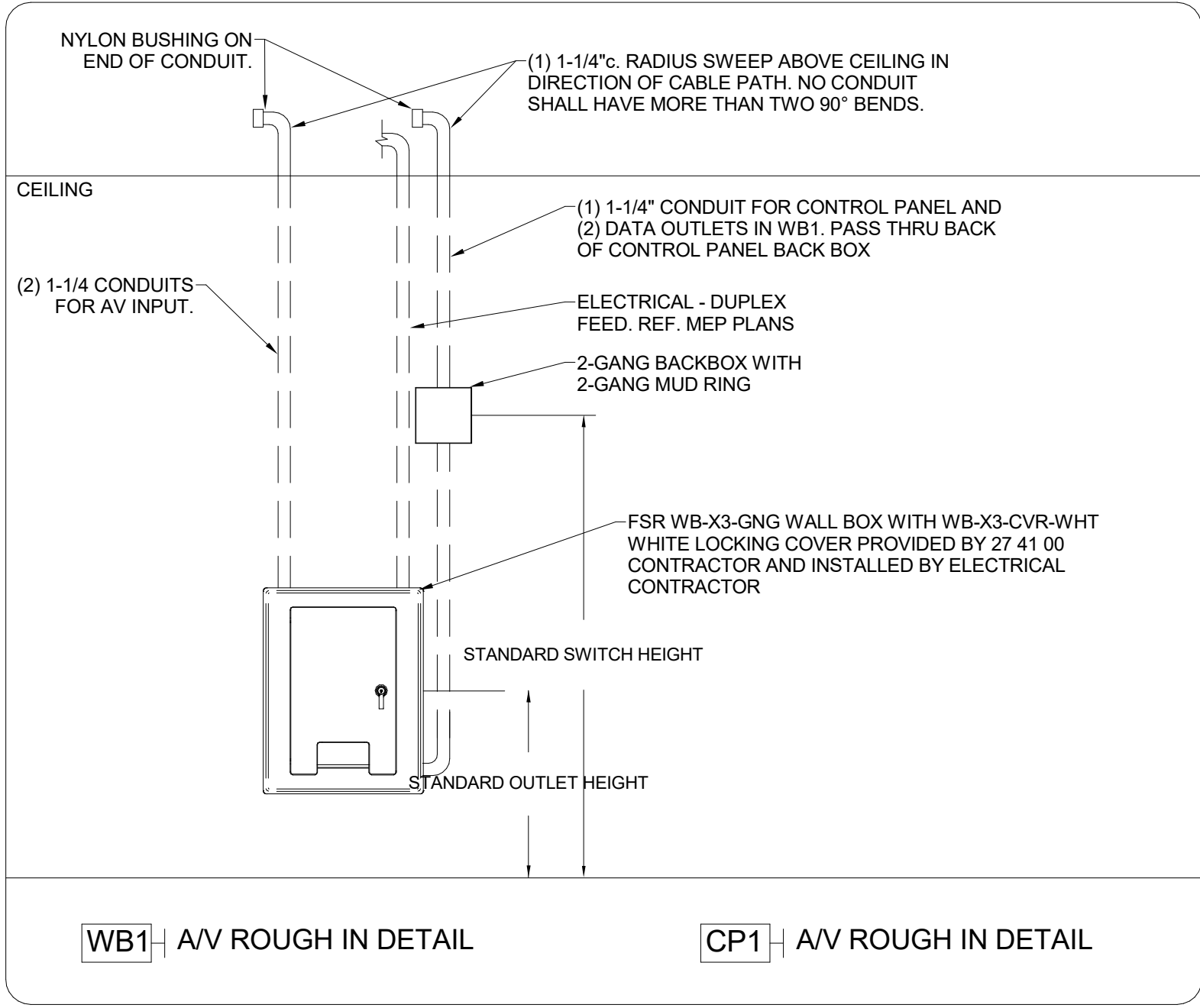
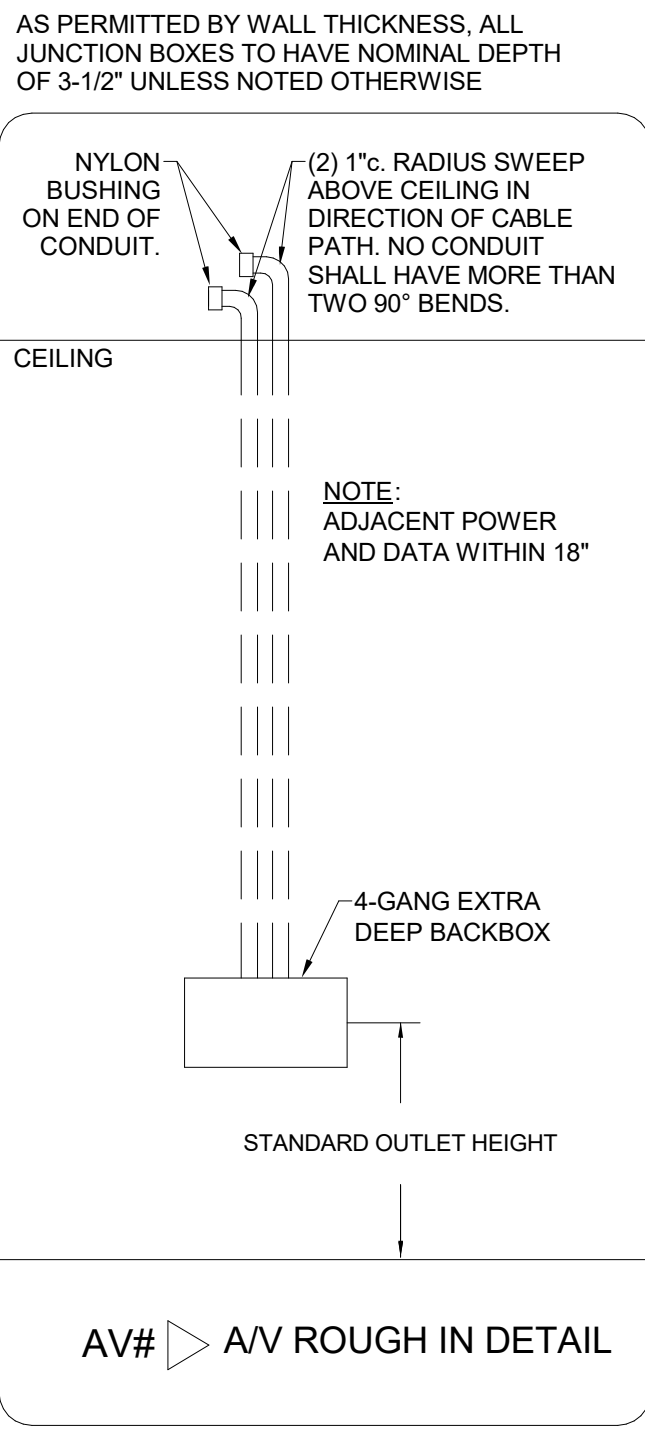


- GENERAL NOTES:
1. REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 2. DOOR DETAIL INDICATES DOOR HANDLE OR CRASHBAR ON SECURED SIDE OF DOOR FOR REFERENCE ONLY. REFER TO DOOR HARDWARE DIVISION SPECIFICATIONS FOR ADDITIONAL INFORMATION.

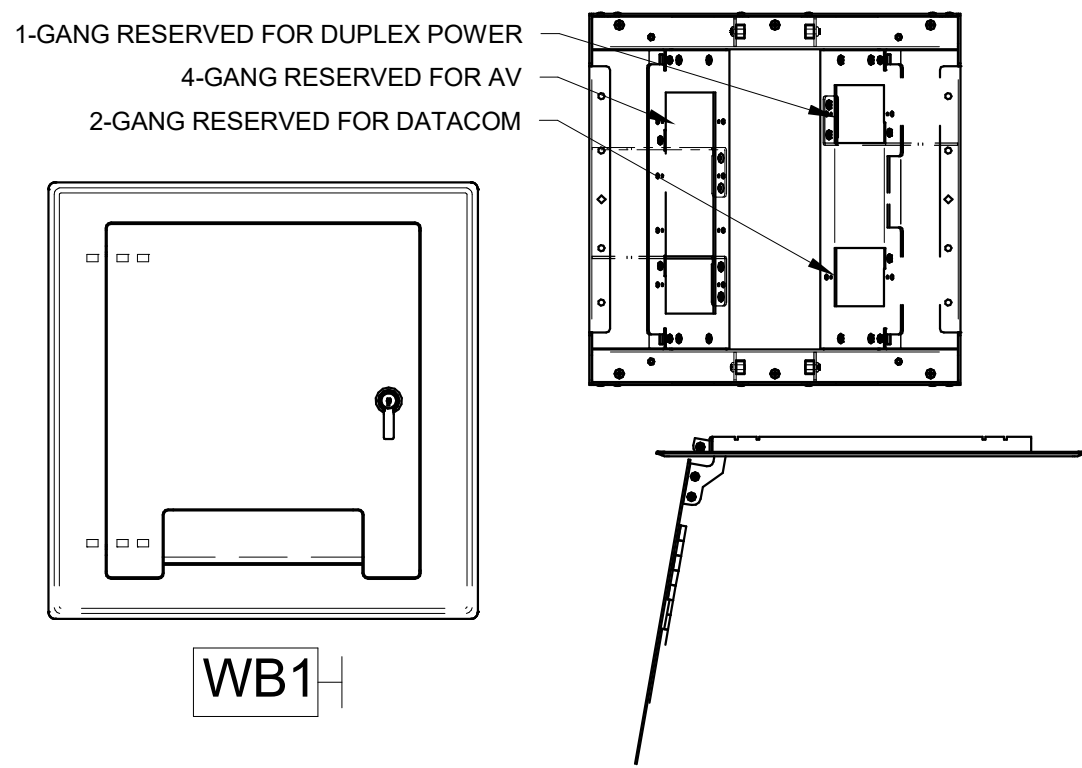
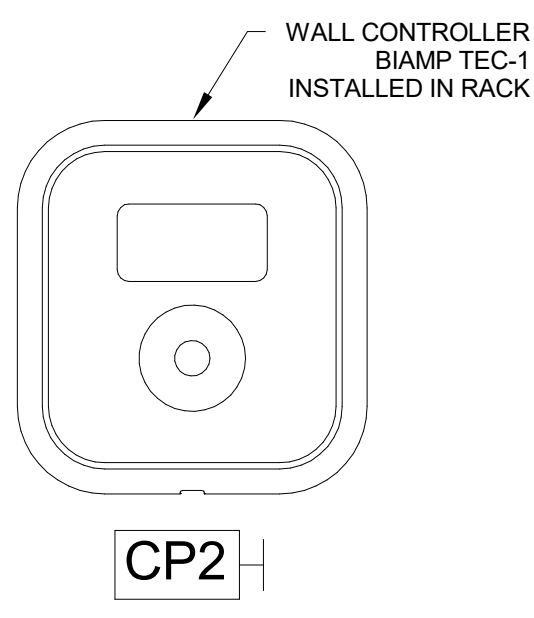
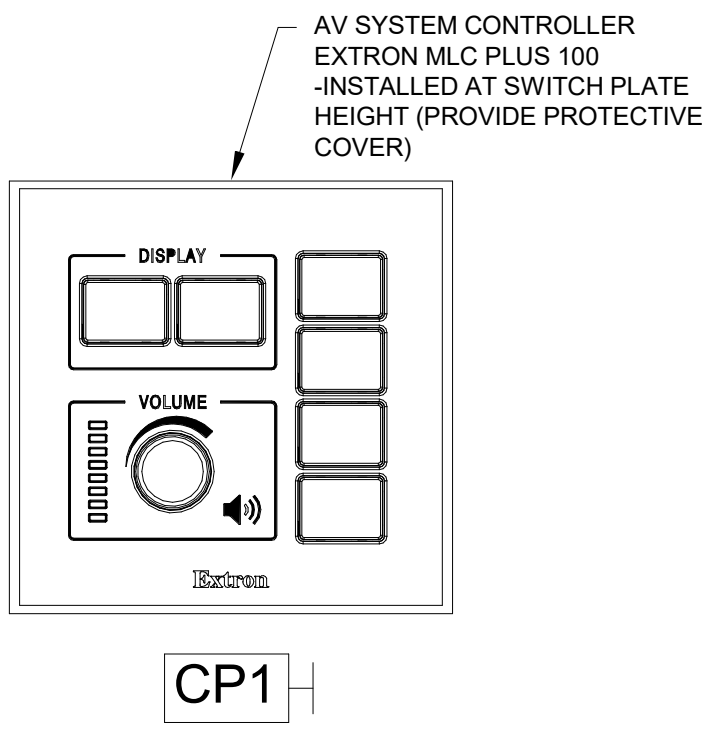
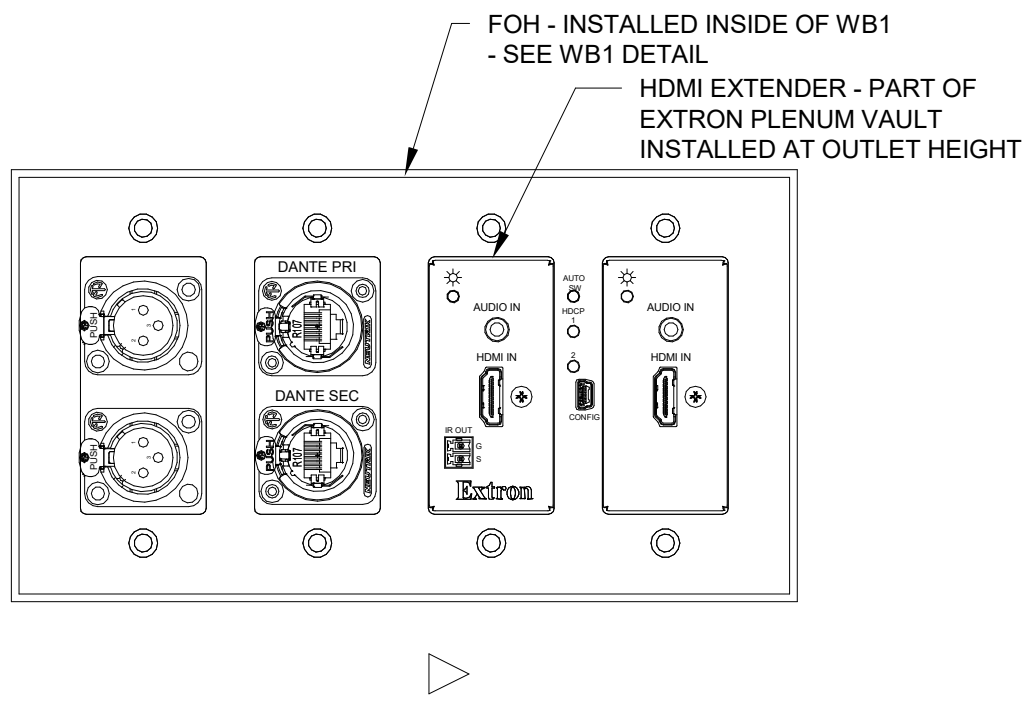
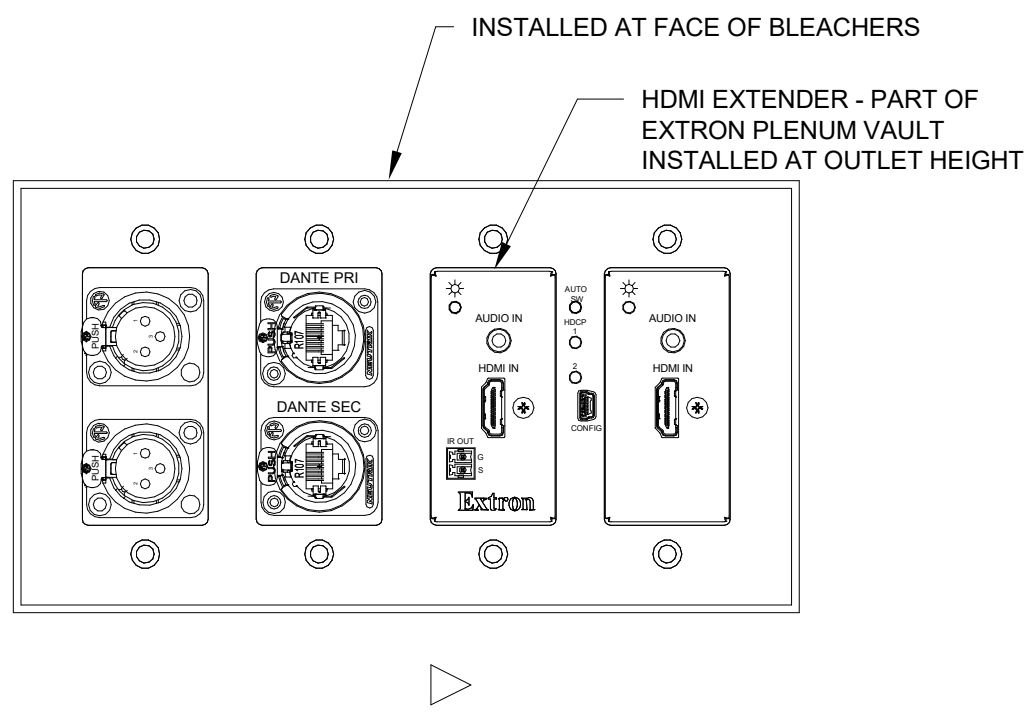


2 TYPICAL UNIVERSAL SINGLE DOOR ROUGH-IN DETAIL CR - TYPE 2
SCALE: NTS

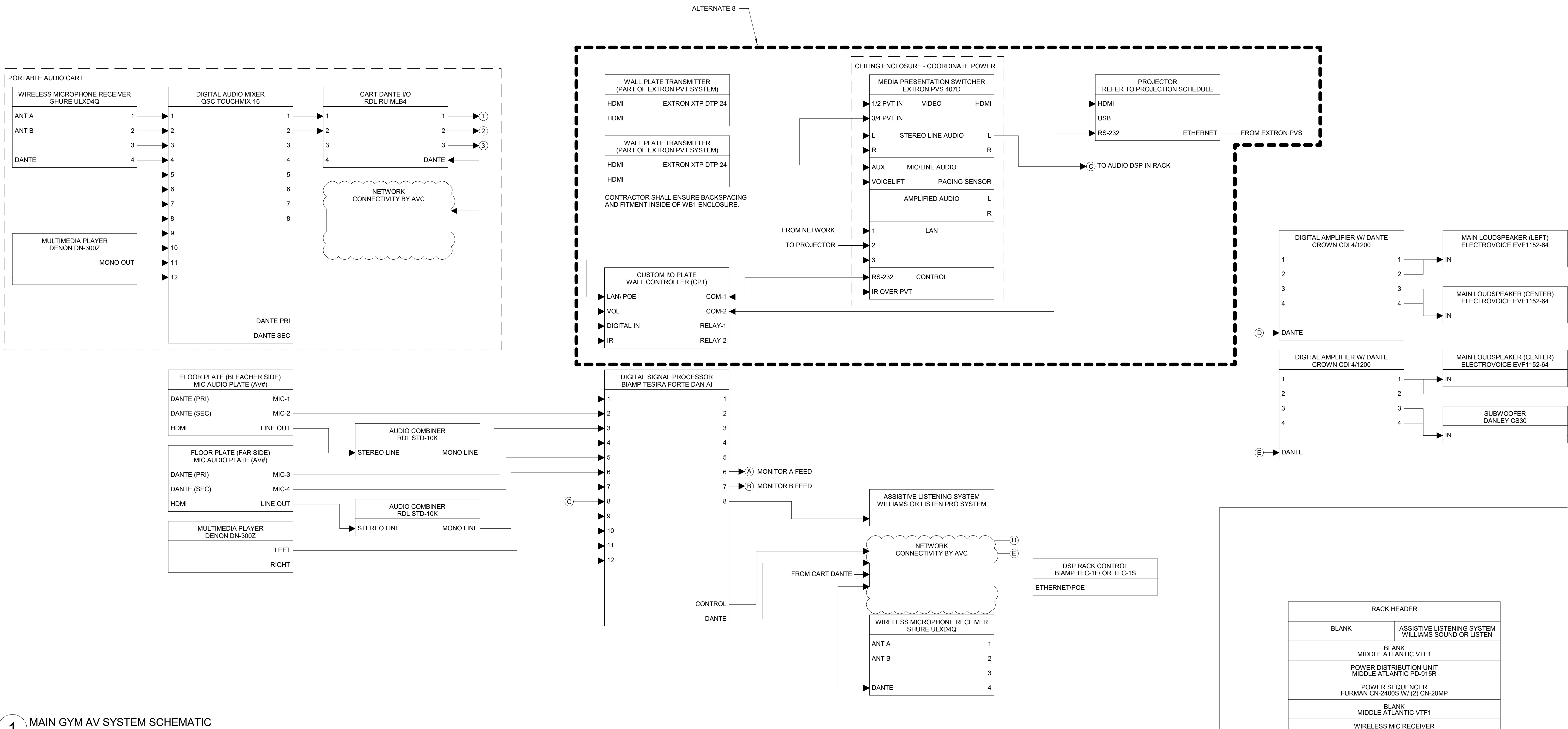




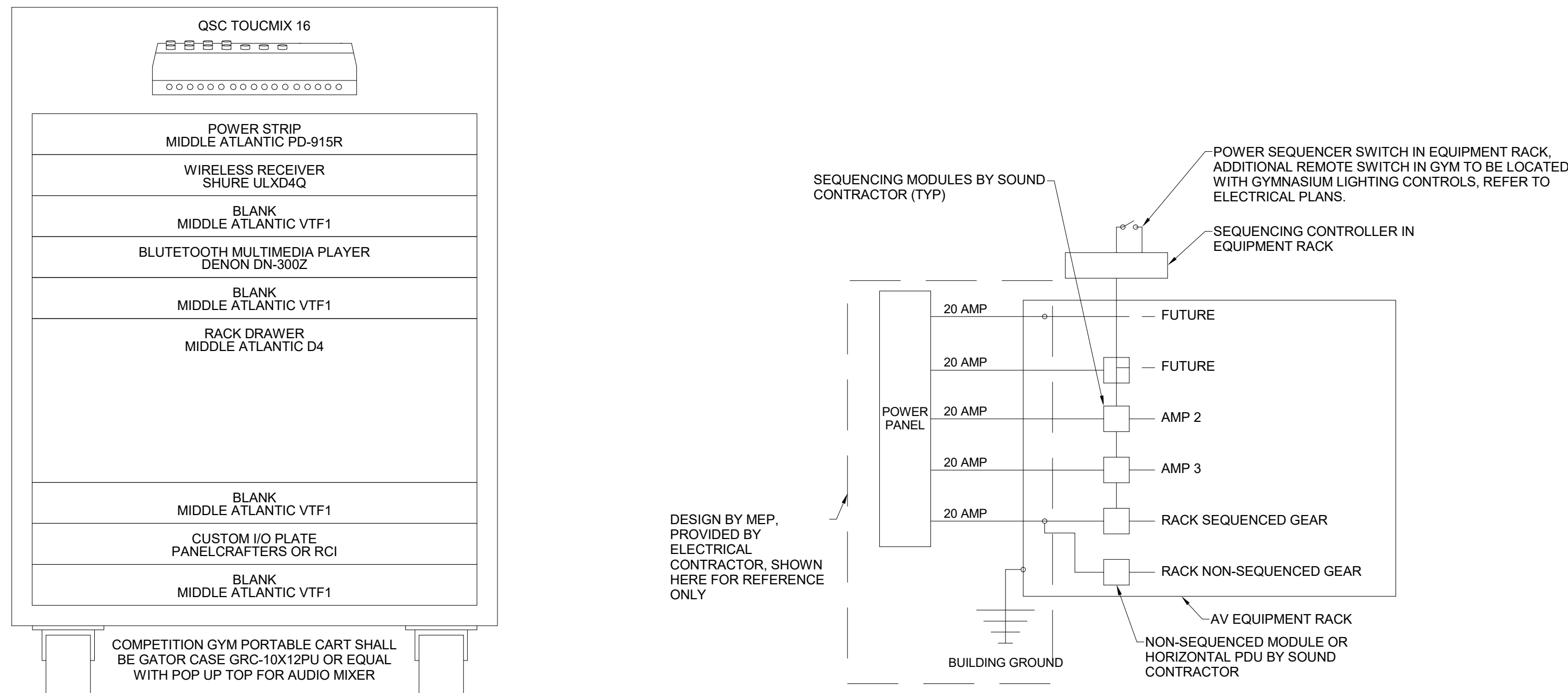
1 A/V ROUGH-IN DETAILS, PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE
SCALE: NTS



2 A/V ROUGH-IN DETAILS, PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE
SCALE: NTS



1 MAIN GYM AV SYSTEM SCHEMATIC
SCALE: NTS



4 ELECTRICAL POWER REQUIREMENTS FOR MAIN GYM AV RACK
SCALE: NTS

- PROVIDE (ADDITIONAL HARDWARE AND CABLES):
- (4) SHURE ULXD1
 - (8) SHURE ULXD2/B58
 - (1) AKG PRO HEADPHONES
 - (4) SHURE 58 BETA
 - (4) SHURE 57 BETA
 - (1) PROCO IFACE
 - (4) POINT SOURCE CR-8S EARSET (BEIGE)
 - (2) POINT SOURCE CR-8L LAVALIER (BLACK)
 - (4) ULTIMATE PRO-R-5B
 - (2) ULTIMATE PRO-R-T-T
- CONQUEST SOUND AUDIO PATCH CABLES**
- *****NOTE ALL CABLES MUST BE RED HEAT SHRINK LABELED W/ 2 LINES*****;
- 1st LINE - "PROPERTY OF HUTTO ISD"
- 2nd LINE - "SCHOOL NAME"
- (4) OPMICN 10' STAR QUAD MIC CABLE W/NEUTRIK BLACK X-SERIES CONNECTORS, GOLD CONTACTS & BLUE BOOTS
 - (6) OPMICN 15' STAR QUAD MIC CABLE W/NEUTRIK BLACK X-SERIES CONNECTORS, GOLD CONTACTS & YELLOW BOOTS
 - (6) OPMICN 25' STAR QUAD MIC CABLE W/NEUTRIK BLACK X-SERIES CONNECTORS, GOLD CONTACTS & GREEN BOOTS
 - (4) OPMICN 50' STAR QUAD MIC CABLE W/NEUTRIK BLACK X-SERIES CONNECTORS, GOLD CONTACTS & PURPLE BOOTS

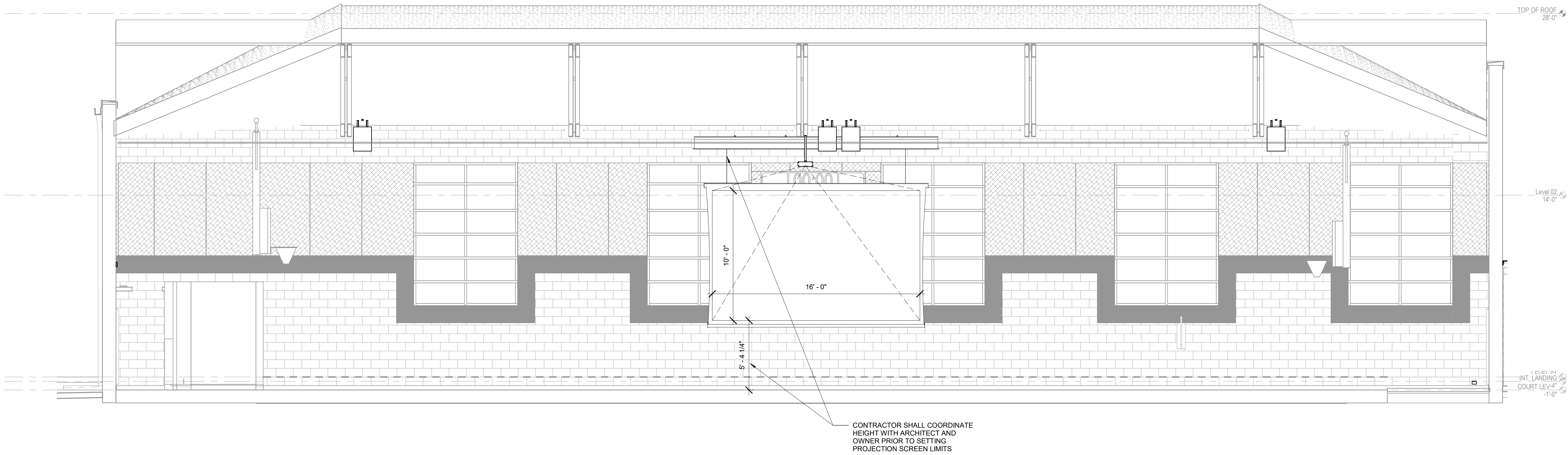
5 ADDITIONAL HARDWARE AND MISC FOR MAIN GYM SYSTEM
SCALE: NTS

RACK HEADER	
BLANK	ASSISTIVE LISTENING SYSTEM WILLIAMS SOUND OR LISTEN
BLANK	MIDDLE ATLANTIC VTF1
POWER DISTRIBUTION UNIT MIDDLE ATLANTIC PD-915R	
POWER SEQUENCER FURMAN CN-2400S W/ (2) CN-20MP	
BLANK	MIDDLE ATLANTIC VTF1
WIRELESS MIC RECEIVER SHURE ULXD4Q	
BLANK	MIDDLE ATLANTIC VTF1
AUDIO DSP CONTROLLER BIAMP TESIRA TEC-1F	
MIDDLE ATLANTIC VTF1	
MEDIA PLAYER DENON DN300Z	
BRUSH PLATE MIDDLE ATLANTIC BR1	
NETWORK SWITCH BIAMP OR APPROVED EQUAL - COORDINATE WITH OWNER	
BRUSH PLATE MIDDLE ATLANTIC BR1	
DIGITAL SIGNAL PROCESSOR (DSP) BIAMP TESIRAFORTE DAN AI	
BLANK	MIDDLE ATLANTIC VTF1
RACK DRAWER MIDDLE ATLANTIC D4	
MIDDLE ATLANTIC VTF1	
BLANK	MIDDLE ATLANTIC VTF1
BLANK	MIDDLE ATLANTIC VTF1
BLANK	MIDDLE ATLANTIC VTF1
AUDIO POWER AMPLIFIER CROWN CDI 4/1200	
AUDIO POWER AMPLIFIER CROWN CDI 4/1200	

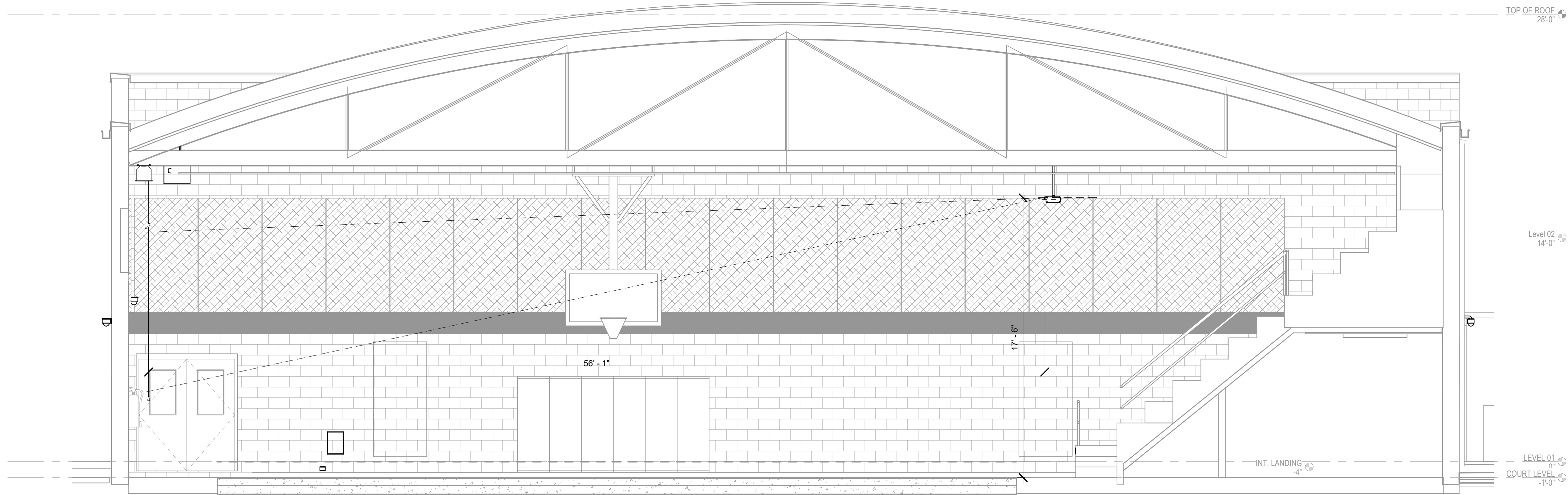
RACK SHALL BE MIDDLE ATLANTIC DWR SERIES WITH LOCKABLE FRONT DOOR. INCLUDE FAN KIT FK-22 AND THERMOSTATIC FAN CONTROL FC-4-1CA.

2 MAIN GYM AUDIO RACK ELEVATION
SCALE: NTS

3/30/2021 3:25:54 PM BIM 360://20-038 Hutto ISD Gym Renovation/Hutto ISD - Gym Renovation - Technology - 20v_rene.torres.rvt



1 PROJECTION SCREEN ELEVATION - FRONT VIEW
SCALE: 1/4" = 1'-0"



2 PROJECTION SCREEN ELEVATION - SIDE VIEW
SCALE: 1/4" = 1'-0"

Projects at College Street Campus

The Gymnasium and Administration projects are the first phase of a masterplan to redevelop the Hutto ISD property at College Street to accommodate the District's needs as it continues to grow and develop. The focus is to honor the history of the site and the community while also creating a campus that reflects the development goals of the City and future growth in Old Town.

Gymnasium project

The gymnasium project consists of two major scopes of work. The first is the demolition of the existing school along College Street. This building has outlived its useful life and is beyond repair. Some features of this building will be preserved and integrated into future development on this site. This includes the front walkway that has names incorporated into the concrete, salvaging some wood flooring from the smaller, older gymnasium, and salvaging some original masonry use in future development on site. Once the building is fully removed, the land will be regraded and revegetated until a later phase of development when a new building will be constructed in its place. The future building is master planned to fit into the same set back as the current building. The intent is to match the current entrance, preserve the pecan trees along College Street, and match the Art Deco design of the original building.

The second scope of work is the larger gymnasium, built in 1952. This building is in much better shape than the school and will be renovated into a stand-alone facility that will support District and community activities. The focus of this renovation is to preserve the historic charm of the building while expanding the activities it can support. New AV, athletic equipment, and toilet rooms will support District professional development, PE activities for River Horse Academy, and community recreational activities. The renovation on the interior includes new lighting, electrical, plumbing, mechanical, and technology. Some structural work will be done to reinforce the CMU walls and clean up the steel structure. The walls will be repainted, and finishes refreshed. The exterior will be cleaned up, brick will be repointed, new door canopies and lighting will be installed, and salvaged brick will be installed where the adjacent buildings were removed. In addition, new grading and drainage around the building will ensure positive drainage around the gym and other buildings on the campus.

New Administration Building

The new administration building proposed at the corner of Taylor and Red Bud Streets is intended to unify the Human Resources and Pay Roll departments for Hutto ISD. Human Resources is currently housed in the old train depot building along Taylor and College Streets. This building is too small and lacks the meeting space needed by this department to on-board new staff. Pay roll is located in the main administration building. This new building will serve to unify these departments and give them the space they need to function properly.

The new building, located on Taylor Street is designed to fit into the residential feel of that street. The building is one story, with a residential scale and finishes including standing seam metal roof, lap and board & batten siding, and windows with a traditional mullion pattern. The layout is intended to preserve as many original trees as possible. The L-shape limits the impact on the trees and establishes a street front along the two main roads. The new building meets the guidelines established by the UDC and Old Town Smartcode overlays. Landscaping along Red Bud will soften the street front and reflect the adjacent homes. Future development along College street will mean that this building will likely take on a different roll in the future but will continue to support the Hutto ISD mission.

College Street Campus - Master Plan Building Six Salvagable Asset Inventory

Inventory ID	Item	Description	Quantity	Removed? (Yes / No)	Storage Location & Address	Storage location Identifier	HSD Contact Responsible
1	Main entrance walkway paving	main building entrance that has names engraved into it	1	No	Protected during demolition of building with plywood, left in place	NA	Henry Gideon, Assistant Superintendent of Facilities
2	Wood Flooring	Wood floor from small gym/theater	100 sf of gymnasium wood flooring	Yes	Hutto Warehouse, 200 College Street	TBD	Henry Gideon, Assistant Superintendent of Facilities
3	Plaques	plaques found in the structure to be demolished	TBD	Yes	Hutto Warehouse, 200 College Street	TBD	Henry Gideon, Assistant Superintendent of Facilities
4	Front Façade	Front Entry Façade Frame	Front entrance door, approx. 10' to either side of the center of the door, capturing the entire width of the canopy and the projecting brick bands to either side, from finish floor to parapet. Door panels and light fixtures may be removed and stored separately	Yes	Hutto Warehouse, 200 College Street	TBD	Henry Gideon, Assistant Superintendent of Facilities
5							



STRUCTURAL CONDITION ASSESSMENT

for

Hutto ISD

College Street Gymnasium

November 02, 2020

Prepared by:

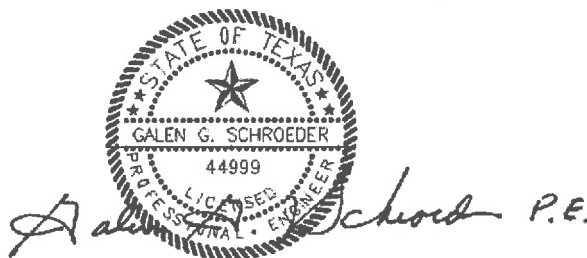
Datum Engineers, Inc.

8140 N. Mopac Expressway, Building 1, Suite 120

Austin, Texas 78759

Datum Project Number 20186

Datum Registration No. F-2819



Galen G. Schroeder, P.E.

TABLE OF CONTENTS

1.0	EXECUTIVE SUMMARY, HISTORY AND RECOMMENDATIONS.....
2.0	GYMNASIUM PHOTO KEY PLAN FOR OBSERVATIONS
3.0	OBSERVATIONS
	A. ISSUES WITH DEMOLITION OF ADJACENT BUILDINGS ON EAST, NORTH, AND WEST SIDES OF GYMNASIUM.
	B. ROOF CONDITIONS OF THE EXISTING GYM.
	C. STRUCTURAL REPAIRS NEEDED TO SAVE AND RE-USE THE EXISTING GYM.
	D. OTHER NON-STRUCTURAL OBSERVATIONS.
4.0	CONCLUSIONS AND RECOMMENDATIONS.....
5.0	LIMITATIONS.....

1.0 Executive Summary

Galen Schroeder and Jeff Courtney of Datum Engineers, Inc. performed a walk-thru survey of the existing 9,000 square feet Gymnasium and adjoining structures on the south side of River Horse Academy campus on October 13, 2020. It appears that the steel frame of the east side locker room building was built independent of the Gym and can be removed without damage to the existing brick façade. The wood buildings on the north and west side of the Gym appear to be supported by the brick façade of the Gym.

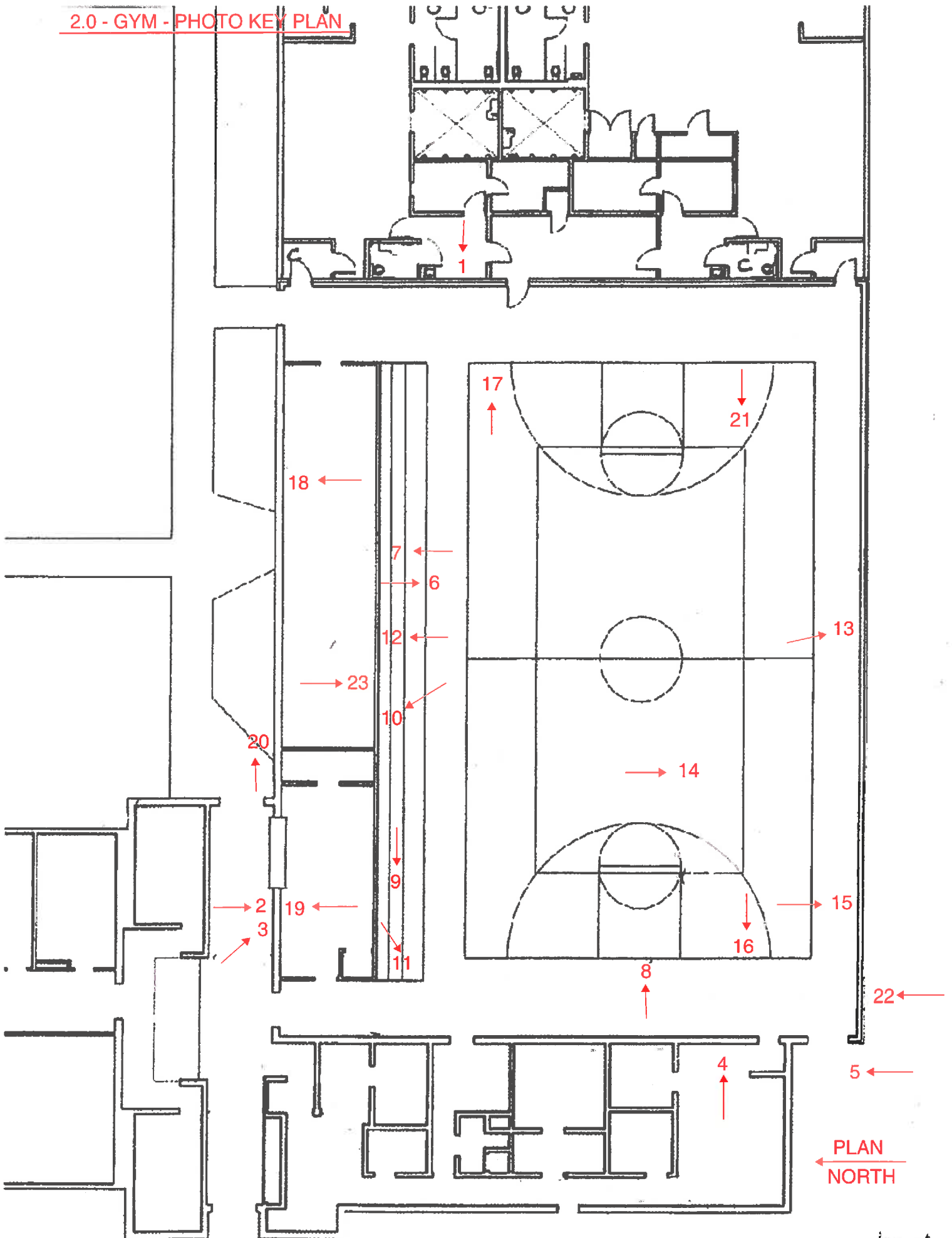
The roof structure and roofing appear to be in good condition as no signs of leakage were seen. The steel columns supporting the bow-string roof trusses have some corrosion damage on the north wall due to moisture intrusion related to the column base being below ground level.

The CMU walls of the Gym have cracks mainly due to the fact that the walls are totally unreinforced and ungrouted. The top of the walls are not braced to the roof structure making them unstable. 5 Large windows on the south side do not have reinforcement in the jambs making the walls more unstable. There is a large crack completely thru the south CMU and brick wall due to foundation movement that will need repair. Even though the Gym has existed for quite a number of years, we recommend some structural repairs be made prior to being used again.

Gymnasium History & Description

The original classroom building was built around 1937. The Gymnasium and adjacent locker rooms were added in a future addition. The roof of the Gym is curved metal supported by 1 x 8 wood decking over 2 x 12 wood joists over arched steel bow-string trusses at 18 feet on center. The trusses are supported by 6x6 steel wide flange columns each end. The perimeter of the Gym is 18 feet tall 8" CMU walls. Concrete grade beams support the perimeter CMU walls. The foundation below the grade beam and columns is unknown. The slab appears to be cast on grade and separate from the perimeter grade beam without being doweled together. A wood deck floor in the center of the Gym is probably placed over shims over a recessed concrete slab. No destructive demolition was done to investigate the concrete slab structure or column/grade beam foundations. A brick façade completely surrounds the Gymnasium indicating it was built as a stand-alone building before the locker room additions on the east and west sides, and the lobby addition on the north side.

2.0 - GYM - PHOTO KEY PLAN



3.0 – OBSERVATIONS

A. ISSUES WITH DEMOLITION OF ADJACENT BUILDINGS ON EAST, NORTH, AND WEST SIDES OF GYMNASIUM.

ADJACENT EAST BUILDING



Photo 1 - East Side locker room building looking up at steel roof structure and brick façade of gymnasium.

East side locker room building is framed with structural steel and perimeter concrete tilt wall panels. It appears to be totally independent of the Gymnasium structure. Brick façade of Gym as can be seen through three access openings in hard ceilings appears to be in good condition.

ADJACENT EAST BUILDING



Photo 2 - North side building, looking up at wood beam.



Photo 3 - North side building, looking up at wood ledger and wood decking.

The one-story building on the North side of the Gym is wood framed and appears to be supported by the brick façade of the Gym. Photo 2 shows a built-up wood beam bearing in a pocket of the brick façade. Photo 3 shows a continuous wood ledger bolted to the brick.



Photo 4 - West side locker room building, looking up at wood roof rafters and brick facade.

The one-story locker room building on the West side of the Gym is also wood framed and is also supported by the brick façade of the Gym.

Photo 4 shows 2 x 12 wood roof rafters at 16" on center, running in an E-W direction and bearing in pockets cut into the brick façade of the West wall of the Gym.



Photo 5 - Exterior of the West side locker room building as seen from the South.

Ceiling of the west side locker room is 12' high. Roof slopes to the west with built-up wood framing above the rafters. If desired, brick can be salvaged from this building and the adjacent building to make repairs to the numerous penetrations in the brick façade of the Gym.

B. ROOF CONDITIONS OF THE EXISTING GYM.



Photo 6 - Underside of Gym roof as seen from the North wall, looking South.

Insulation under roof of Gym is held in place with wire mesh. Underside of insulation looks good with no visible water stains or mildew which indicates the curved roofing and wood decking is probably holding up well.

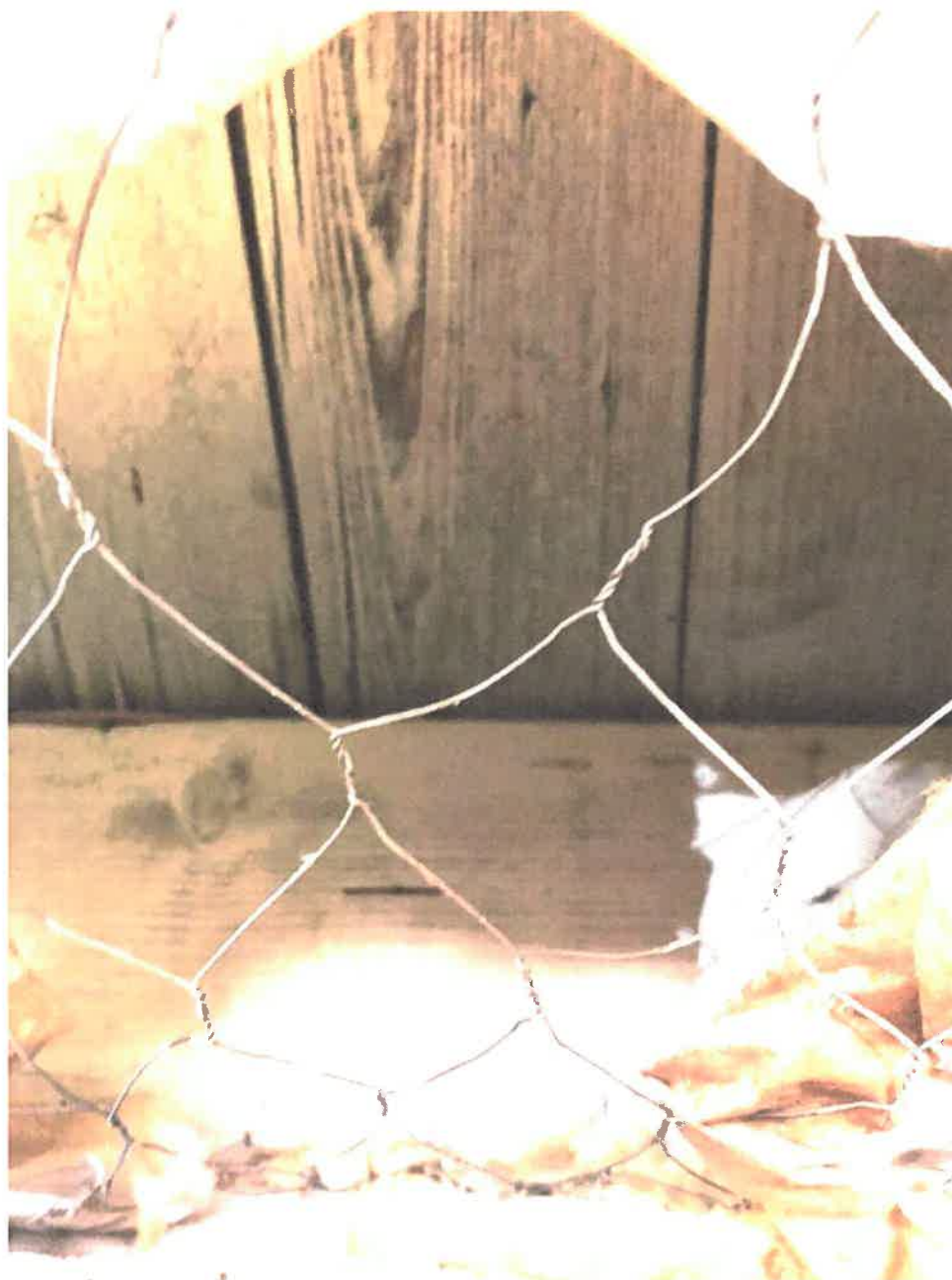


Photo 7 – Wood roof purlins and decking at Gym as seen at top of bleachers.

Structure of roof above trusses appears to be 1 x 8 wood decking over 2 x 12 wood purlins running E-W over the steel trusses.



Photo 8 - Underside of Gym roof structure, looking East.



Photo 9 - End of the Westernmost Gym roof truss at the North wall.

Steel bow-string trusses are spaced at 18 feet on center and 82 feet long. Trusses and x-rod bracing appear to be in good condition.



Photo 10 - Gym roof truss connection to column at the North wall.

Trusses bear on 6" x 6" wide flange columns that are 18 feet tall. Trusses are connected to the top of columns with 8" x 8" x ½" bearing plates and 4 bolts.



Photo 11 - West wall of Gym looking from top of bleachers.

5 rows of truss bracing channels run in E-W direction and appear to be tied into the East and West CMU walls of Gym with steel embeds. The row of CMU blocks above this bracing channel is a different color which may indicate that it's a continuous reinforced and grouted bond beam. This area was not accessible during our walk thru. This would be an important investigation if repairs are made. It appears that a thicker brick wall starts above this row of CMU.

C. STRUCTURAL REPAIRS NEEDED TO SAVE AND RE-USE THE EXISTING GYM.



Photo 12 - Top of CMU wall at the North side of the Gym as seen from top of bleachers.

The top of the exterior CMU wall on the north side above the bleachers has open cell blocks. Normally the top of an 18 feet tall CMU wall would consist of a continuous U-block with horizontal reinforcing and grout or an embedded steel member to brace the top of the wall. Such a continuous bracing element would then be connected to the roof diaphragm at a regular spacing to tie it to the lateral load resisting system. Repairs will need to take place at all 4 sides of the Gym to brace the tops of the exterior walls.



Photo 13 - Base of column near along the South wall of the Gym.

Missing 8" CMU block and drilled test holes indicate no grout or vertical reinforcing adjacent to 6 x 6 steel columns to horizontally anchor walls to columns. The lack of connection between the columns and the walls means the walls cannot be spanning horizontally between columns. Likewise, the columns cannot rely on the walls for weak-axis bracing. Repairs will need to be made to provide this bracing connection.



Photo 14 - South wall of the Gym as seen from center-court, looking South.

Drilled test holes in CMU indicate no grout or vertical reinforcing in the jambs of the large windows on the North side of the Gym. GPR tests indicate no grout or reinforcing in any of the CMU walls. Some mortar joints were filled with fiber board in lieu of mortar. Normally CMU walls with large window will have vertical reinforced and grouted jambs. Structural reinforcements will be needed to provide the required strength and stiffness to all exterior walls.

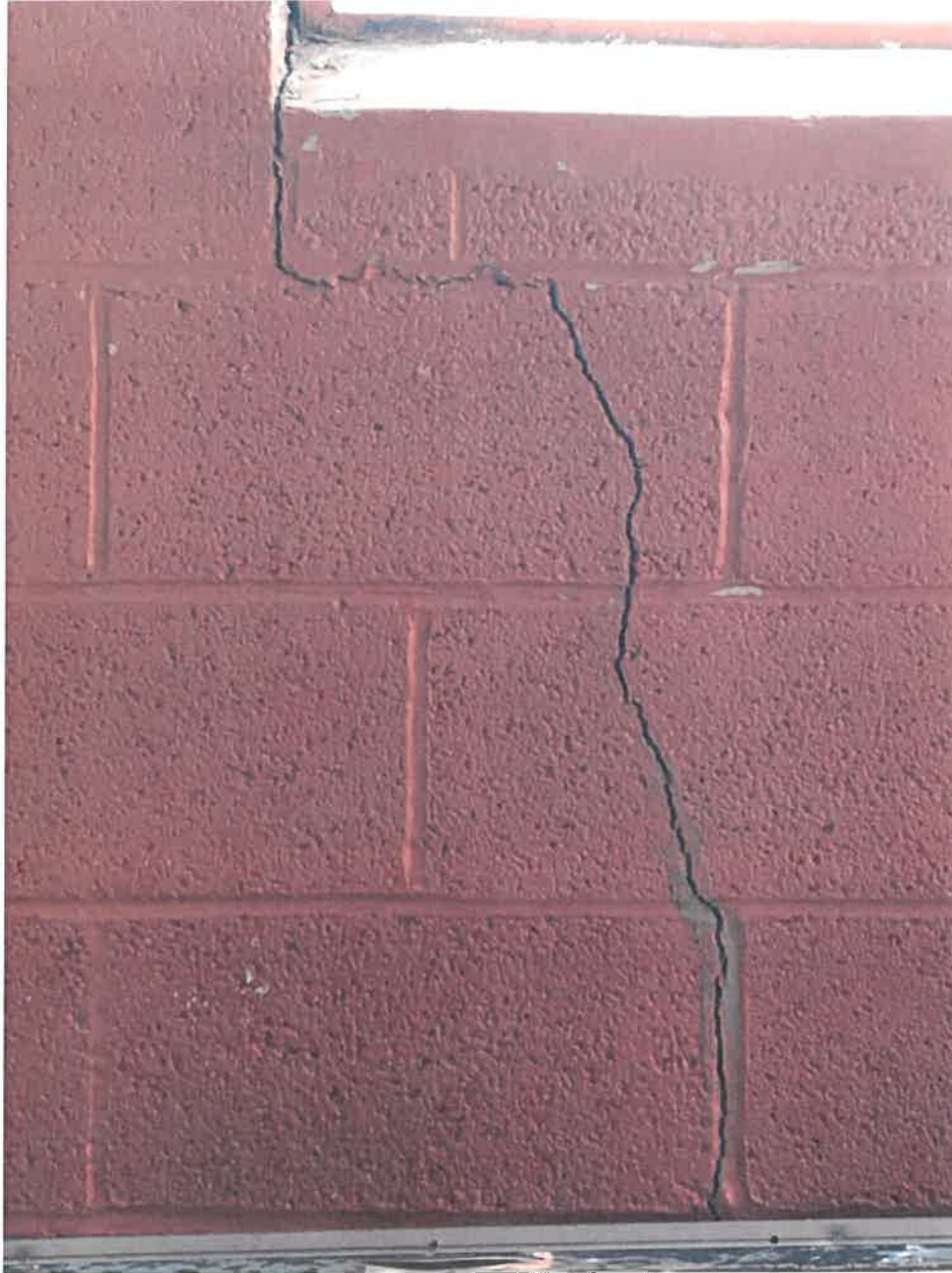


Photo 15 - Bottom portion of South CMU wall under the Westernmost window.

Large crack in CMU wall under westernmost window of south wall goes completely through the wall and exterior brick façade. This crack indicates foundation grade beam settlement. This crack will need to be repaired and sealed.



Photo 16 - CMU crack in west wall.

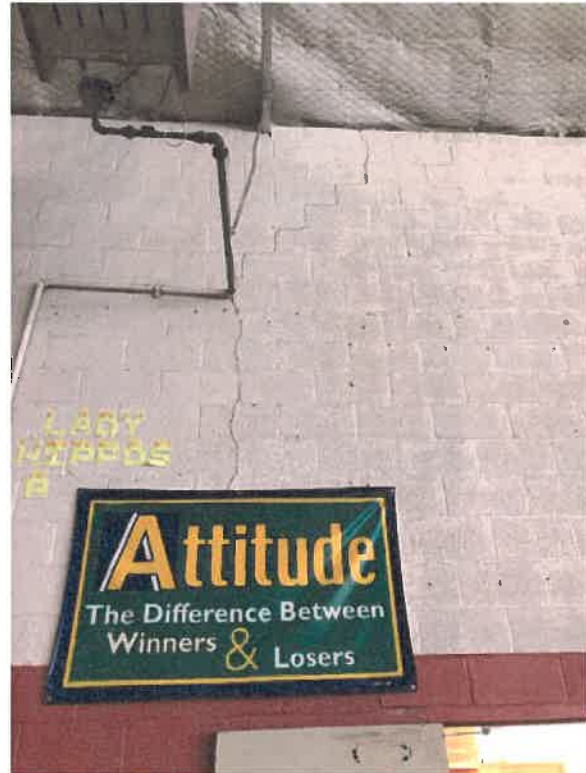


Photo 17 - CMU crack in east wall.

Cracks in East and West CMU walls indicate no horizontal reinforcing and possible grade beam settlement. These cracks will need to be filled with sealant.



Photo 18 – Easternmost column base at North wall near.

Two steel columns in storage room along north wall, under bleachers, are severely corroded at the slab level with large chunks of metal flaking off. The base of two other columns on the North wall in the concession room extend below the slab and exterior ground level and are not visible for inspection. The fifth column was in a locked mechanical room and therefore also not visible. The column bases are 12" below ground level of the North brick façade. Water may be seeping thru the wall corroding the steel columns. The base of each column on the North wall will need to be fully exposed for further investigation. All columns, like the two noted here, with structurally significant amounts of corrosion will need to be repaired.



Photo 19 - Base of North wall near _____.

There is a large gap between the slab and the North CMU wall. Interior slabs are not doweled to exterior grade beams. Gaps like these should be sealed to inhibit moisture migration through the joint.

D. OTHER NON-STRUCTURAL OBSERVATIONS.



Photo 20 - North wall of the Gym as seen from the exterior, looking East.

North brick façade is in good structural condition, but extends below grade with poor drainage in this area. The brick surfaces have numerous mold/mildew stains. Five steel columns behind this wall extend below grade and show signs of severe water damage. Positive drainage and a concrete stem-wall will need to be provided to protect the subgrade steel from moisture infiltration.



Photo 21 - Southeast corner of basketball court floor.

Up to 1" offsets in wood floor adjacent to concrete slab create trip hazards. Numerous slab cracks don't appear to be critical. There is also a very soft spot in the wood floor about 20 feet in from the southwest corner of the Gym. Slab cracks may need to be filled with an epoxy crack filler in the future if moisture migration becomes a problem. We expect the slab movement will continue for the life of the building and thus, the trip hazards and flooring inconsistencies will need an ongoing maintenance regime.



Photo 22 - Southwest entry exterior, looking North.

The sidewalk at the Southwest entry has settled at least 2" relative to the brick façade. The relative movement is indicative of subgrade volumetric changes, likely due to moisture changes. The subgrade changes could impact the structural foundation and the exterior CMU walls in the future. Sealant should be installed between the flatwork and adjacent structure around the entire Gym after demolition of adjacent buildings.



Photo 23 - Underside of bleachers near access door, looking South.

Comprehensive review of the bleachers was not included in the scope of this report. However, based on the limited access seen here, the wood bleachers appear to be in good condition. No visible distress was observed.

4.0 Conclusions

It appears that the steel frame of the east side locker room building was built independent of the Gym and can be removed without damage to the existing brick façade. The wood buildings on the north and west side of the Gym appear to be supported by the brick façade of the Gym. Removing these structures will leave holes in the brick façade that can be patched with other brick or covered with siding for waterproofing purposes.

The roof structure and roofing appear to be in good condition as no signs of leakage were seen. The bottom of steel columns supporting the bow-string roof trusses have some corrosion damage on the north wall due to moisture intrusion related to the column bases being below ground level.

The CMU walls of the Gym have cracks mainly due to the fact that the walls are unreinforced and ungrouted, and the supporting grade beams are settling or heaving. The top of the walls do not appear to be braced to the roof structure and are not attached to the steel columns making them unstable. Five large windows on the south side do not have reinforcement and grout in the jambs making these walls even more unstable. There is a large crack completely thru the south CMU and brick wall due to foundation movement that will need repair.

When the three adjoining building structures are removed by demolition, the Gym will now be exposed to full wind load on all four sides. In addition, the Gym structure is losing some bracing elements that the adjoining buildings provided. Even though the Gym has been in use for quite a number of years, we recommend several structural repairs be made prior to being occupied again.

The bleachers appear to be well built and in good condition. We recommend they remain to perform as a lateral bracing element for the Gym. Other minor items, such as slab cracks, offsets in wood to concrete floor, and soft wood floor areas do not appear to be critical to the structural performance of the building.

Recommendations

Following are recommendations for structural repairs to be performed prior to occupancy:

1. Repair the two damaged steel columns on the north side that are visible by grinding away the corrosion, welding new steel material, and coating with a galvanized compound. The other three columns will need to be investigated during demolition after regrading and removal of some brick façade for observations.
2. Investigate the top of the east and west CMU walls. Brace the top of north and south CMU walls by adding a continuous steel member to be anchored to the CMU walls and the roof deck and welded to the five steel columns on the north and south sides and the five bracing channels on the east and west sides.
3. Install a minimum amount of vertical reinforcing and grout in cells of the CMU walls, at 56" on center and each side of the 5 large windows on the south side of the Gym.

4. Regrade the north side of the Gym so the bottom of brick and steel columns are not continuously exposed to moisture, probably requiring a continuous concrete retaining stem wall.

5.0 Limitations and Further Investigation

The purpose of our survey was to assess the current condition of the existing Gymnasium and adjoining buildings, in general, based solely on what was visible to us in a walk-through type of survey. Our survey did not include a code compliance check, exploratory examination or analysis of the existing structure, removal of finishes, or material testing.

Datum endeavored to find and identify any visually apparent structural defects, but Datum did not attempt to discover deficiencies which were not visible because of obscuring conditions.

No attempt has been made to document the condition of each and every structural or non-structural element. Hidden defects or problems such as cracks in members, exposed and rusting reinforcing steel, honeycombing of concrete, etc. may exist which were not readily visible. No representation, guarantee, or warranty as to the future performance of the building we investigated is made, intended or implied.



Structural Investigation
Of the
River Horse Academy
For
Hutto Independent School District

May 31, 2012

Galen G. Schroeder, P. E.
Vice President
Datum Engineers, Inc.



THE ART OF STRUCTURAL ENGINEERING
WWW.DATUMENGINEERS.COM ■ DATUM ENGINEERS, INC. F-2619

6516 FOREST PARK ROAD
DALLAS, TEXAS 75235
214.358.0174

5929 BALCONES DRIVE, SUITE 100
AUSTIN, TEXAS 78731
512.469.9490

5021 BROADWAY
SAN ANTONIO, TEXAS 78209
210.858.2880

1.0 Executive Summary

Datum Engineers, Inc. performed several visual walk-through surveys on the existing building. There were significant signs of floor movement, particularly along the perimeter walls. It appears that the floor slab was not connected to the perimeter beam and as a result has settled by 1" to 1 ½" in numerous locations along the perimeter walls. Numerous large slab cracks are evident where the slab is exposed. As a result, Interior CMU walls are separating at intersecting walls and cracking in various other locations. There are numerous signs of water damage throughout the building resulting in stained wood roof framing, mold on the ceilings and walls, sagging ceilings, water stains, etc. Final structural analysis and a detailed summary of our findings can be found in Section 5.0.

2.0 Building Description & History

The building, currently named River Horse Academy, is a one-story building built around 1937. The original building (called Phase 1 here) was rectangular in shape and consisted of 10 classrooms and a small gymnasium with about 15,800 square feet of space. A later addition (called Phase 2 here) included areas for administration, a larger gymnasium and locker rooms with an additional 15,900 square feet of space.

The roof is composed of 2x8 wood joists spaced at 16" on center and 2x10 ceiling rafters in the east-west direction that bear on exterior brick walls and interior load bearing wood stud walls along the main corridor in the north-south direction. The interior load bearing walls are 2x4's spaced at 16" on center. Nominal 1x6 Wood decking runs across the wood joists in the north-south direction. We are told some flat roofs were later covered by a sloping metal roof.

The exterior wall is constructed of double-wythe brick with no air space or water proofing. It is 8" thick with a ¾" layer of plaster on the interior face. The exterior brick wall bears on a 13" wide perimeter concrete grade beam. The grade beam reinforcing, depth and whether it's supported on piers or soil material is unknown.

The floor of Phase 1 is composed of a 3/4" x 2 ½" T&G (tongue in groove) wood deck on 2x4 sleepers spaced at 16" on center. The sleepers bear on a concrete slab. There is ½" thick plywood over roofing felt over the T&G flooring in the corridor and ½" thick fiberboard over roofing felt over the T&G flooring in the classrooms. The floor of Phase 2 is a concrete slab, probably placed on grade.

Although we can't see it without destructive demolition, we are told that the original floor construction had wood beams supporting the 2x4 sleepers. The wood beams may have been supported on piers with an 8" crawlspace below the beams. We suspect that the wood beams are deteriorated.

The Gymnasiums have exposed wood flooring surrounded by slab-on-grade concrete. The roof is supported by arched bow-string trusses bearing on 6"x6" steel wide flange columns with 8" CMU closure walls on all 4 sides between the steel columns. The CMU is coated with plaster on the exterior side and exposed on the interior side.

The locker room on the east side of the large Gymnasium was apparently constructed at a later date as evidenced by the Pre-Engineering Metal Building frame to support the roof. Steel frame beams and columns with Z-purlins spaced at 5'-0" on center support a sloping metal roof deck. The exterior walls are precast concrete panels that are exposed on the interior face indicating no insulation or waterproofing. Interior partitions are mostly CMU walls.

3.0 Structural Observations - Interior

- A. The building slab shows signs of significant floor slab movement, particularly along the perimeter walls. It appears that the floor slab was not connected to the perimeter beam and as a result has settled by 1" to 1½" in numerous locations along the perimeter walls. The flooring material in Phase 2 was placed directly on the slab. Photos show how the slab has dropped along the west wall of the corridor as can be seen by the gap between the tile and bottom of the base board. The slab has completely separated from the grade beam and no longer has any structural stability.

Photo 1



Photo 2



- B. The flooring material in Phase 1 has carpet and wood flooring over a concrete slab. This slab has also failed and settled. Photo shows that the floor slab has dropped along the east wall of the east-side classrooms as can be seen by the gap between the carpet and bottom of the base board. The slab has completely separated from the grade beam.

Photo 3



Photo 4



- C. Photos show continuous separation of the slab from the exterior grade beam along the west wall of the locker rooms. Floors are sagging and numerous door frames are shifting as can be seen by the gap at the top and sides of the door frame.

Photo 5



Photo 6



- D. Photo shows that the floor slab has dropped along the east wall of the east-side restroom as can be seen by the gap between the ceramic tile and bottom of the wall tile. The slab has completely separated from the grade beam. Tiles are coming loose with severe slab movement and voids under the tile. Photo 7 shows significant slab variation relative to the perimeter grade beam.

Photo 7



Photo 8



- E. Most exterior doors at the ends of hallways have very large gaps under them as a result of severe slab movement. Rain has been blowing in under the doors.

Photo 9



- F. Floor drain in the girls locker room backs up when the washing machine is draining. The back-up means the drain line is either broken or clogged. There's a good chance the drain is leaking under the building increasing the slab movement. Rust stains on the tile floor also indicate deterioration of underslab plumbing. Water is leaking through roof along east and west walls of the girls locker room. The slab in this area was also severely cracked.

Photo 10



- G. The CMU partition walls have separated from the corridor wall of the Gymnasium in both the boys and girls locker room, rest room, and laundry room. This is more indication of significant slab movement.

Photo 11



Photo 12



- H. Numerous large cracks in the walls indicate significant slab movement. Most of the CMU wall intersections have cracks and large gaps as a result of slab movement.

Photo 13



Photo 14



- I. Photo 15 shows significant water damage and a severe crack in the CMU lintel in the laundry/locker room area. This area is currently not easily accessible, but the lintel needs to be shored up to prevent possible failure.

Photo 15



Photo 16



- J. There are numerous roof leaks in the building. At the time of the visit, the carpet in this area was wet and the plaster on the wall was wet with moisture damage.

Photo 17



- K. Photo looking up from a mechanical chase shows the existing wood framing for the roof decking, roof joists and the ceiling rafters. There was water on the floor from a leak in the chase.

Photo 18



- L. There were numerous signs of water damage with mold. Numerous walls in the locker and shower rooms on the east and west sides of the building had signs of mold on the walls, floors, and ceilings. Gypsum board and acoustical tile ceilings are severely damaged and sagging or have fallen to the floor from roof leaks. A lot of moisture was evident inside the building on one site visit shortly after a rain fall.

Photo 19



Photo 20

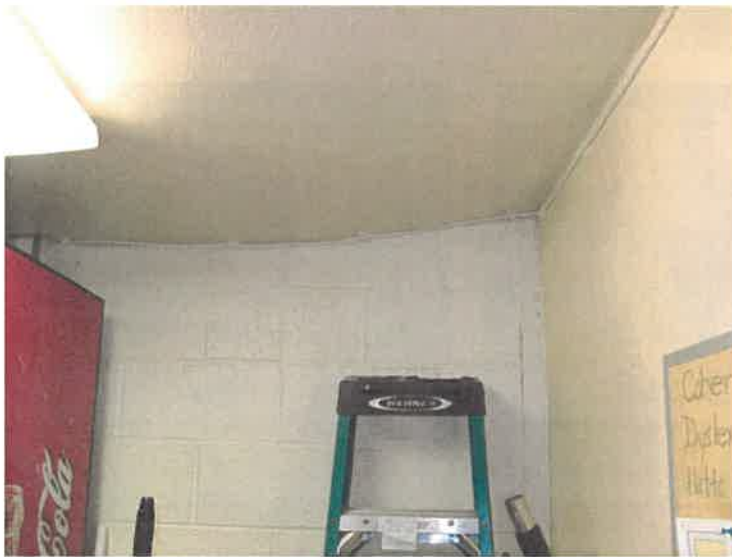


- M. Gypsum board ceiling has dropped about 4" along the north wall in the maintenance staff office and needs to be shored up to prevent failure. Ceiling had been shored on the most recent site visit.

Photo 21



Photo 22



- N. Compared to the rest of the building, the Gymnasium is in better condition. There are some cracks in the perimeter CMU walls. On the large Gym, there are at least 6 continuous vertical cracks on the west wall, with some offset in the CMU as can be seen in the photo. It appears that the concrete grade beam below is moving. The south wall has at least 2 cracks, the east wall has at least 6 cracks and the north wall is mostly hidden by the wooden bleachers. There is no bond beam or other support at the top of the wall to brace the wall back to the structure.

Photo 23



Photo 24



- O. The steel arched trusses, steel columns and truss bracing appear to be in excellent condition and could be reused in another project if demolition is desired.

Photo 25



Photo 26



- P. There are some humps in the wood flooring indicating ground movement or deteriorated wood support below. One area in particular, at the southwest corner, had flexible movement in the floor under foot traffic.

Photo 27



- Q. There are signs of inconsistent floor offsets between the wood flooring and the surrounding concrete floor, up to 1" deep, on all sides of the gym flooring, creating numerous toe stumbers. The slab surrounding the Gym floor slopes severely toward the CMU wall on 3 sides. This is a result of ground and slab movement. It appears that this slab is connected to the perimeter grade beam, so the slab is either heaving at the wood floor or the perimeter beam is settling.

Photo 28



4.0 Structural Observations - Exterior

- A. Plaster ceiling at the main entry canopy on the north and west sides show signs of roof leaks and corrosion of rebar or steel in the roof framing. Stains on brick in photo 30 appear to be roofing tar leaking onto the brick wall below. Since the canopies are hanging off of the building, the integrity of the attachment of the canopies to the building are in question.

Photo 29



Photo 30



- B. Severe deterioration of wood fascia and eave soffit boards around perimeter of the building allows rain to enter into plenum space. Most severe areas are along the front (west) side of the building at the south end. Roof joists are not visible and may be damaged.

Photo 31



Photo 32



- C. Brick cracking at southwest corner of building indicates foundation movement in a number of places. This crack has produced a $\frac{1}{2}$ " offset in the brick. Cracks were previously caulked.

Photo 33



- D. Sidewalk has separated from the building by $\frac{1}{2}$ " to $\frac{3}{4}$ " along the south side of building allowing water to get into the foundation area. The brick has numerous holes in the mortar and some areas where mortar is missing which also allows moisture to enter the building since there is no waterproofing in these walls. There are also numerous wall penetrations (gas, condensate lines, plumbing vents, etc) that penetrate the exterior wall with no sealant allowing water to enter.

Photo 34



- E. Brick wall on east side has pulled away from the main building by as much as 1 3/8". Wood eave fascia boards have severe rot and deterioration. Water is getting into the joints. Condition of the wood truss bearing is suspect and would need to be inspected when exposed.

Photo 35



Photo 36



- F. Metal roof deck over east entry has failed and is leaking, particularly at the connection to the building. This corner has wood rot damage as can be seen from inside the building.

Photo 37



- G. All metal awnings and canopies are severely damaged and will need to be removed and replaced.

Photo 38



- H. Precast panels along 3 sides of the east gymnasium locker room are exposed on the interior side providing no insulation or waterproofing. There are cracks showing up on both the inside and outside faces of these wall panels. Some panels have mold on the inside face.

Photo 39



- I. This particular cracked and spalled piece of concrete should be removed to avoid falling debris over the sidewalk.

Photo 40



- J. Photo shows numerous cracks and spalls in the precast wall panel. Joints between the panels are opening up to allowing moisture into the building.

Photo 41



- K. Grade beam crack at the northeast corner.

Photo 42



5.0 Structural Analysis and Recommendations

1. The building shows signs of significant floor slab movement, particularly along the perimeter walls. It appears that the floor slab was not connected to the perimeter beam and as a result has settled by 1" to 1 ½" in numerous locations along the perimeter walls. The floor in Phase 1 has wood flooring over a concrete slab and in Phase 2 the flooring material was placed directly on the slab. In either case, the slab has failed and no longer has any structural stability. Repairing this condition would require removing all the interior partitions that are not on grade beams and possibly having to remove and replace all interior slabs.
2. Interior CMU walls are separating at intersecting walls and cracking in other various locations. This separation and cracking can probably be attributed to the damaged slab. Repair would involve removing all interior CMU partition walls that are not on grade beams and replacing with new CMU or drywall partitions after the slab has been repaired or replaced.
3. There are numerous signs of water damage throughout the building resulting in stained wood roof framing, mold on the ceilings and walls, sagging ceilings, water stains, etc. Repair would involve removing all ceilings, insulation and all gypsum board material on interior bearing walls so the wood roof and bearing walls can be inspected for water damage. All areas of wood rot or other serious deterioration would need to be removed. Although not structural, mold removal operations would also need to be performed.
4. The exterior brick load bearing walls are in remarkably good condition for their age. This may be due to the fact that they bear on stabilized grade beams which may be on piers. If preserved, they would need to be inspected after all interior finishes are removed on the inside face. Cleaning, repainting of mortar joints and sealing all penetrations would be required.
5. Compared to the rest of the building, the Gymnasium is in better condition, but still has issues.
 - A. There are numerous cracks on the perimeter CMU walls as defined in the report. The top of the walls do not have grouted and reinforced bond beams or steel members bracing the wall back to the structure. Steel bracing beams would need to be added to the top of all 4 walls, particularly where the exterior wall is exposed to wind loads.
 - B. The steel arched trusses, steel columns and truss bracing appear to be in excellent condition and could be reused in another project if demolition is desired.
 - C. There are some humps in the wood flooring indicating ground movement below. The wood flooring would need to be removed to observe the support condition below the flooring.
 - D. There are also floor offsets up to 1" deep between the wood flooring and the surrounding concrete floor, creating numerous toe stumps.
6. The exterior precast wall panels on 3 sides of the eastside locker rooms of Phase 2 are in very poor condition. We recommend removal and replacement of these walls.
7. The pre-engineered steel frame building of this locker room would need to be inspected after all ceilings and partitions are removed in this area. Its' condition is unknown.
8. The small canopies over the main entrances on the north and west sides of the building are made of concrete and hang from the building with no support columns. Signs of water leaks, mildew and rebar corrosion are evident on the wall and in the plaster ceilings. There is no easy way to analyze

the structural integrity of these canopies or their connection to the building, therefore they should eventually be removed or shored.

9. There is water damaged wood rot in the fascia boards and soffits along numerous parts of the exterior. If the building is preserved, we recommend removing and replacing all exterior fascia and soffits. Wood roof joists would then need to be inspected along the perimeter of the building for damage, particularly where they bear on the perimeter wall.
10. Most metal awnings and canopies are severely damaged and need to be removed and replaced.
11. Much of the building movement and damage can be attributed to the poor landscape drainage around the building. The area immediately around the building either slopes toward the building or at least not away from it resulting in water migrating and standing under the building. Downspouts dump roof drainage along the edge of the building with no slope to drain away. This water probably ends up under the building. Gil Engineering is providing a report on the exterior site work.

In summary, if there is a desire to preserve the building for a historical nature, we recommend demolishing all ceilings, all interior partitions, all exterior and load bearing wall coverings, and flooring to expose the bare structure for a more detailed inspection of the structural framing to see what could be preserved and reused. There is a good chance that the entire floor slab may need to be removed and replaced. All bearing wall foundations would then need to be investigated for structural integrity.

6.0 Disclaimer

This report is a summary of results from “walk-through” visual survey. Removal of architectural finishes, material testing and roofing examination are outside the scope of this document and were not performed. The opinions and comments stated in this report are based on limited visual observations only. No physical testing was performed and no calculations have been made to determine the adequacy of the structural system or its compliance with accepted building code requirements. No warranty, expressed or implied, related to the condition of the structure is intended.

Please feel free to call and discuss any issues or recommendations in this report.

Sincerely yours,

A handwritten signature in black ink that reads "Galen G. Schroeder P.E." The signature is written in a cursive, flowing style.

Galen G. Schroeder, P.E.
Vice President
Datum Engineers, Inc.

AGENDA ITEM REPORT



To: Historic Preservation Commission
Subject: Consideration and possible action on the Certificate of Appropriateness for work on the rear facades of 105 and 107 East, including new gutters and underground sump pump, addition of windows and doors, door awnings and brick facade work on the rear elevations. This request also includes an up to 20' expansion on the rear facade of 105 East.
Meeting: Wednesday, September 22, 2021
Department: Development Services
Staff Contact: Autumn Speer

BACKGROUND INFORMATION:

SUMMARY OF REQUEST:

107 East

1. Rear elevation addition of gutters and underground pump
2. Adding covered entry awnings over rear doors
3. Side elevation addition of two doors and three windows
4. No front elevation changes proposed

105 East

1. Rear elevation addition of gutters
2. Remove the rear wall and balcony/deck
3. Extend the rear footprint approximately 20' with brick façade and decking
4. Add door, 3 windows, new balcony and staircase
5. No front elevation changes proposed

105 and 107 East are both contributing structures. A contributing structure or site adds to the historical integrity or architectural qualities that make the historic district significant. A contributing structure or site helps make a historic district "historic".

STAFF REVIEW:

COA Applicability

A certificate of appropriateness is required for the following change to the exterior of a structure with designated or pending historic designation:

AGENDA ITEM REPORT



- Visible change to the exterior of a designated contributing structure.

COA Evaluation and Recommendation

A Certificate of Appropriateness is evaluated, in part, to the following criteria:

1. The structure or site will be used for its historic purpose or be placed in a new use that is permitted under this code. The use will require minimal change to the defining characteristics of the structure, property, site and environment. **No use changes are proposed.**
2. The historic character of a structure or site will be kept and preserved. Removal of historic materials or alteration of features and spaces characterizing a structure or property will be avoided. **The historical elements will be preserved and the new rear expansion and facade on 105 East will utilize brick to match the original structure.**
3. The structure and/or site remains as a physical record of its time, place and use. Changes will not create a false sense of historical development, such as adding conjectural features or architectural elements from other structures or property. **The structures will remain as is in the front.**
4. Most structures and property change over time; changes that acquired historic significance in their own right will be kept and preserved. **NA**
5. Distinctive features, finishes and construction techniques or examples of craftsmanship characterizing a structure or property will be preserved in the limits permitted by applicable regulations. **The structures will remain as is in the front.**
6. Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature must match the old in design, color, texture and other visual qualities; and, where possible, materials, if they meet other applicable codes and ordinances. Replacement of missing features will be proven by documentary, physical or pictorial evidence. **The proposed changes to the rear facades will serve to strengthen the structural integrity of the structure and provide additional access to the property.**
7. Chemical or physical treatments that could damage historic materials are prohibited. Surface cleaning of structures, if appropriate, must be undertaken using the gentlest method possible. **NA**
8. New additions, exterior alterations, or related new construction will not destroy historic materials characterizing the structure or property. New work will be differentiated from the old and will be compatible with the massing, size, scale and architectural features to protect the historic integrity of the structure or property and its environment. **The new rear expansion and facade on 105 East will utilize brick to closely match the original structure**
9. New additions and adjacent or related new construction will be undertaken in a way that the essential form and integrity of the historic structure or property and its environment will be unimpaired if it is removed in the future. **Building permits are required for all work**

AGENDA ITEM REPORT



10. New construction taking place after demolition or removal of a structure or property in an historic district will conform to the design guidelines for the district. **NA**

10.203.5.5 Approval conditions

Staff Recommends approval of the proposed Certificate of Appropriateness for the gutter placement, new windows and doors in the rear and the brick façade on the rear of the structure as shown. The Historic Preservation Commission may impose conditions on a general development plan. Certificates of Appropriateness expire in 180 days upon approval and building permits must still be obtained for projects authorized by a certificate of appropriateness.

FINANCIAL IMPACT:

POLICY IMPLICATIONS:

ATTACHMENTS:

1. 105 and 107 East COA and Master App
2. 105 and 107 East-Rear Elevation Exterior Proposal
3. 105 & 107 East St Existing Floor Plan and Elevations
4. 105 & 107 East St Proposed Floor Plan (105 Expansion)
5. 107 East St. Side Wall Existing Photo
6. 107 East St. Side Wall Photo
7. 107 East St. Side Wall - Proposed 3D
8. 105 East Survey Legal Description
9. 107 East Survey Legal Description



CERTIFICATE OF APPROPRIATENESS APPLICATION

Must be accompanied by a Master Application

City of Hutto Development Services
500 W. Live Oak Street
Hutto TX 78634
Phone: 512-782-2640
Planning: 512-759-3479
Permits & Inspections: 512-846-2640
Engineering: 512-759-4038
planning@huttotx.gov
building@huttotx.gov
www.huttotx.gov

PROJECT NAME: **107 East**

PROPERTY ADDRESS: **107 East St. Hutto, TX 78634**

Current zoning district: **OT-5H** Current use: **Mixed** Occupancy: ☐ Residential ☒ Commercial

☐ ** Pre-application meeting with Development Services staff. (Required for all COA applications.) **

Request Type (Check One)

☐ New construction ☐ Remodel or Addition ☐ Storage or Accessory Building ☐ Fence construction or Repair

☐ Demolition ☐ Storage or Accessory Building ☒ Other: **Gutter Repair / Re route**

FEES ☐ All required fees may be provided by cash, credit card (plus additional fee) or check made payable to: City of Hutto

See City of Hutto Development Fee flyer for appropriate fees

REQUIRED FOR SUBMITTAL:

ALL SUBMITTAL DOCUMENTS PROVIDED ON A CD (disk) OR OTHER COMPATIBLE ELECTRONIC STORAGE DEVICE

All items listed must be included with application, unless otherwise noted per your Pre Application meeting.

- ☐ Complete Master application and Certificate of Appropriateness application.
- ☐ Proof of ownership (copy of deed).
- ☐ Photos of lot and existing structure(s) (all sides), submitted digitally/electronically (via: email, flash drive, disc).

If applicable to the project, the following items are to be submitted digitally/electronically (via: email, flash drive, disc) at a minimum scale of (1/8 inch = 1 foot), unless otherwise indicated.

☐ 1. Site Plan

- A. Minimum scale (1 inch = 20 feet) and must include the following:
- B. North arrow and scale
- C. Lot lines with dimensions, setback and easement lines
- D. Existing/proposed structure location(s), accessory structures, and reference dimensions from all lot lines
- E. Existing trees (with sizes) and locations of all primary/secondary entrances to structures
- F. Driveway, parking, walkway, fence and retaining wall locations (existing/proposed)

☐ 2. Floor Plan

- G. Existing/proposed structure location on site
- H. Layout of all rooms, exterior decks, porches, windows and door openings
- I. Total square footage of overall structure (total heated/cooled area)

☐ 3. Roof Plan

- J. Flue, roof, exhaust vents, chimneys, skylights
- K. All projections, penetrations, overhang lines and lengths
- L. Gutters, downspouts, major ridge, valley and eave lines

☐ 4. Architectural Elevations

- M. North, south, east and west side elevations showing: deck/patio, porch, and showing heights for building, plate, foundation and roof pitch
- N. Calculated areas for all facades and glazed surfaces (windows)
- O. Additions: show entire structure

☐ 5. Significant Architectural Details

- P. Descriptions and drawings that demonstrate the architectural character of the structure, exposed structural connections, materials, interfaces, etc. (includes finials, corbels, brackets, rafter ends, window casing, etc)

☐ 6. Material Samples

- Q. Exterior wall/siding, color, texture and finish (photos from current property or any website of materials)
- R. Trim, masonry type, color, texture and layup (photos from current property or any website of materials)
- S. Roof, garage, exterior door type and driveway color (if other than asphalt/grey concrete)
- T. Window type and color (photos from website of materials)
- U. Site, building exterior lighting fixtures and home numbering (photos from website of materials)

FOR DEPARTMENT USE ONLY:

Submittal date	Date accepted for review	Payment type	Fees paid	HPC Mtg. date	HPC determination
					☐ Approved ☐ Approved with conditions (attached) ☐ Denied



MASTER APPLICATION

Must accompany all application types unless otherwise indicated

City of Hutto Development Services 210
500 W. Live Oak St Hutto TX 78634
512-759-3479 Planning
512-846-2640 Permits & Inspections
512-759-4038 Engineering
512-759-5962 Fax
planning@huttotx.gov
building@huttotx.gov
www.huttotx.gov

PROJECT NAME: **107 East ST**

APPLICATION TYPE _____

APPLICANT INFORMATION (property owner or authorized agent) this will be the City's official contact.

Name: **Gracie Matthews**

Company Name: **Legendary Endeavors, LLC**

Address: **8502 Andes Cv, Austin TX 78759**

Phone: **512-769-6336** Email: **gracietopher1@gmail.com**

PROPERTY INFORMATION

Address: **107 East St. Hutto, TX 78634**

Legal Description: Deed **LOT 6-10(PTS)** Block **3** Subdivision **Railroad**

Reference: Volume **National Registrar of Historic Places** OMB No. **1024-0018** Page(s) _____ or Document No. _____ Ref # **11000515**

City Limits ☒ ETJ ☐ Current Zoning District: _____

PROPERTY OWNER INFORMATION

Name: **Chris Matthews**

Company Name: **Legendary Endeavors, LLC**

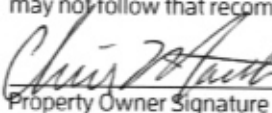
Address: **8502 Andes Cove, Austin TX 78759**

Phone: **512-703-7416** Email: **chris@memorizemyemail.com**

PROPERTY OWNER CONSENT/AGENT AUTHORIZATION

By my signature I hereby affirm that I am the property owner of record, or if the applicant is an organization or business entity, that authorization has been granted to represent the owner, organization or business in this application. I certify that the preceding information is complete and accurate, and it is understood that I agree to the submittal of this application. Additionally, my signature below indicates my awareness of the fee(s) required at the time of application submittal and that this fee(s) is non-refundable even in the event of application withdrawal or if reviewed and denied.

By signing this form, the owner of the property authorizes the City of Hutto to begin proceedings in accordance with the process for the type of application indicated on page one of this application. The owner further acknowledges that submittal of an application does not in any way obligate the City to approve the application and that although City staff may make certain recommendations regarding this application, the City Council may not follow that recommendation and may make a final decision that does not conform to the staff's recommendation.


Property Owner Signature

Christopher Matthews
Property Owner Printed Name

8/24/2021
Date

THE STATE OF TEXAS

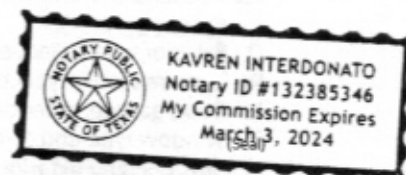
COUNTY OF **Travis**

Before me, the undersigned authority, on this day personally appeared _____, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this **24th** day of **August**, 20**21**


Notary Public Signature

Kaven Interdonato
Notary Public Printed Name



If there are multiple property owners attach separate page(s) with notarized signature(s)

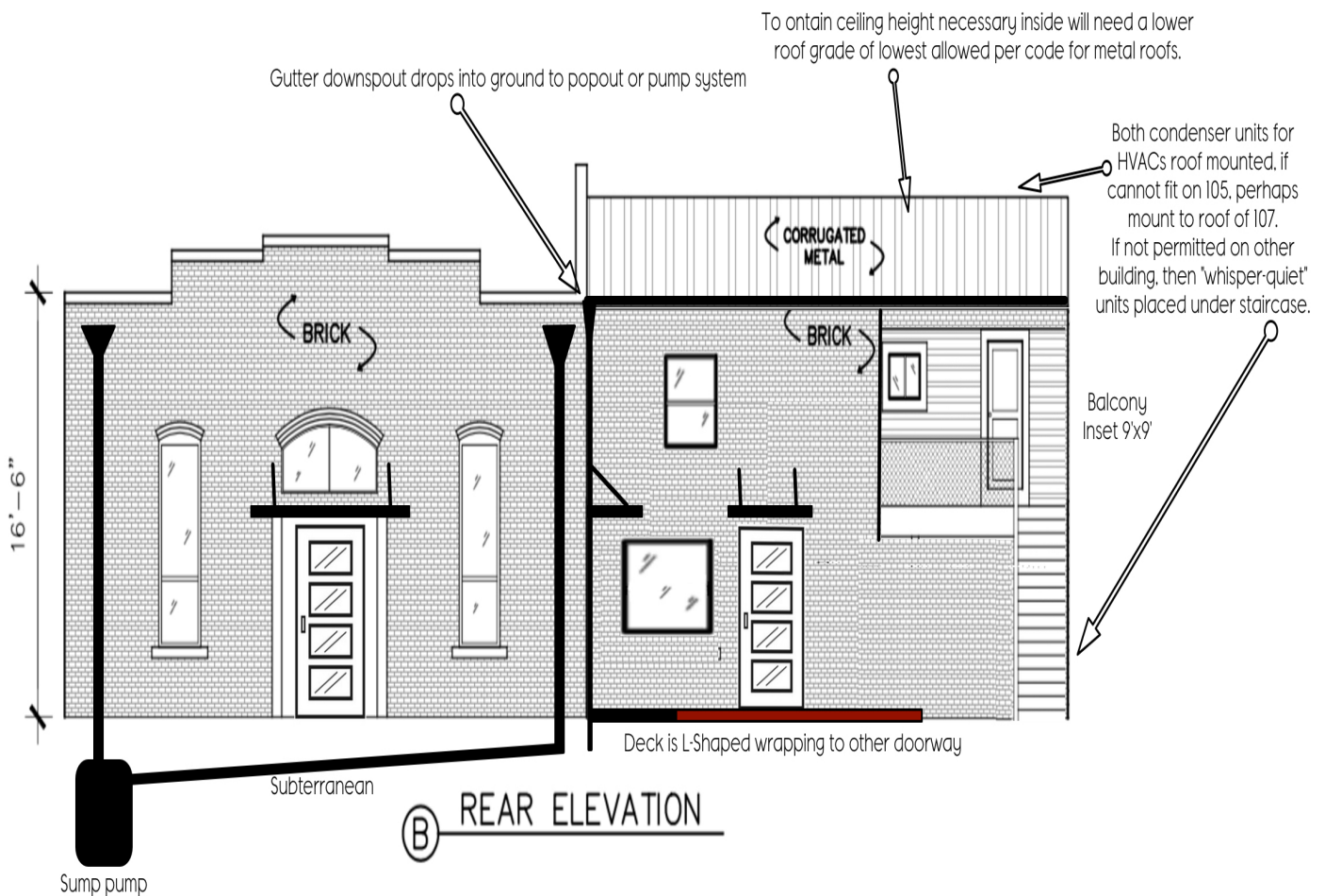
Planning	Date	Building	Date	Notes

EXISTING



Ⓑ REAR ELEVATION

PROPOSED

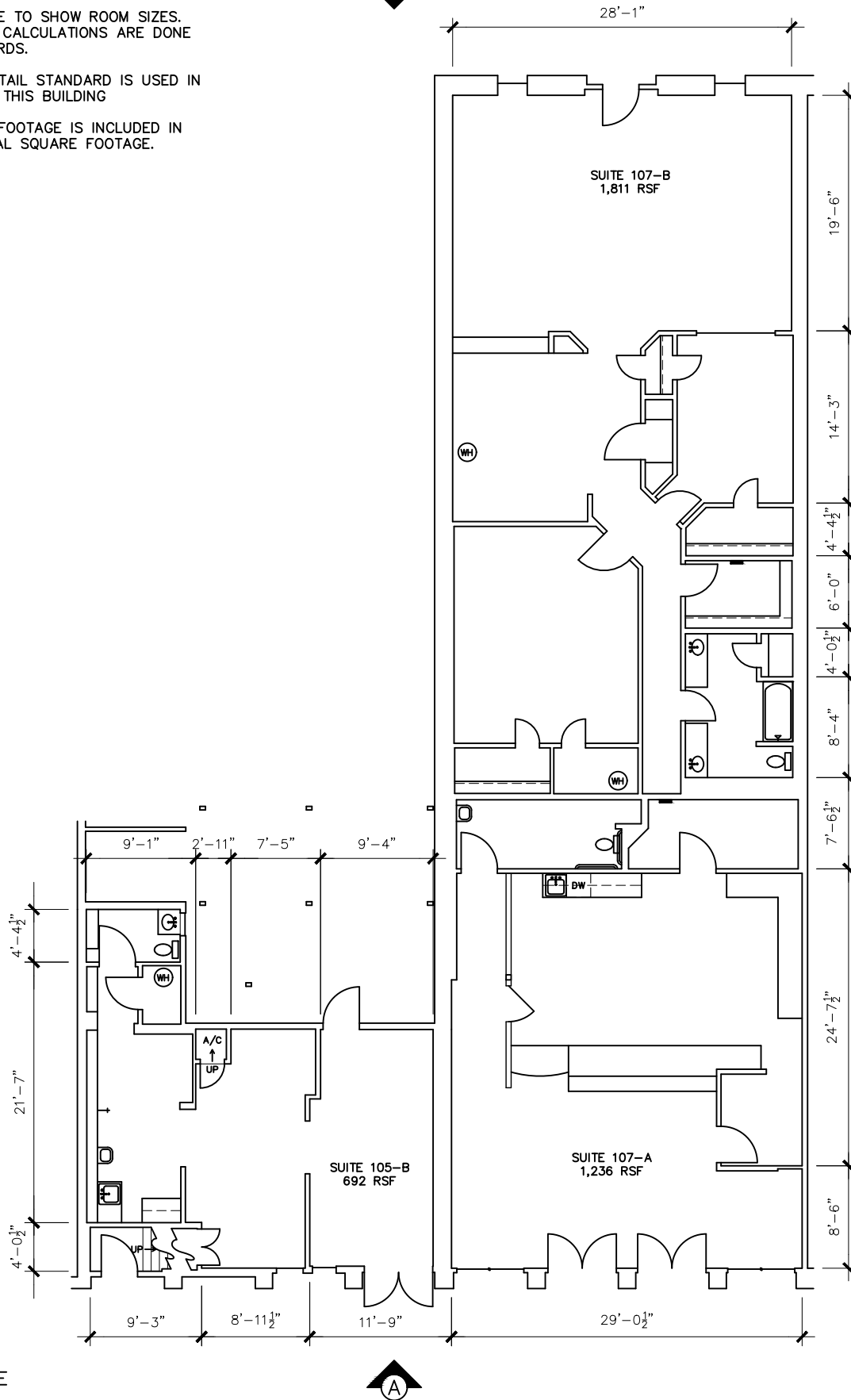


NOTE:

1. DIMENSIONS ARE TO SHOW ROOM SIZES.
SQUARE FOOTAGE CALCULATIONS ARE DONE
TO BOMA STANDARDS.

2. BOMA 2020 RETAIL STANDARD IS USED IN
THE ANALYSIS OF THIS BUILDING

3. DECK SQUARE FOOTAGE IS INCLUDED IN
SUITE 105-A TOTAL SQUARE FOOTAGE.



NOT TO SCALE

Drawing for:
Gracie Matthews
8502 Andres Cove
Austin, TX 78759

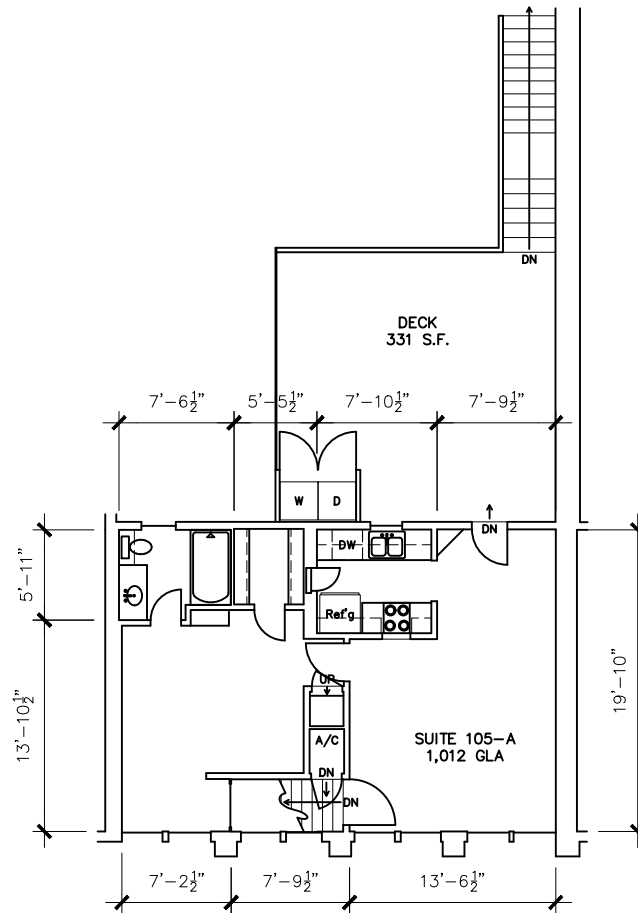
FIRST FLOOR
105 & 107 EAST STREET
HUTTO, TEXAS

THE MEASUREMENTS, FLOOR PLANS,
AND CALCULATIONS ARE ACCURATE
USING BOMA MEASUREMENT
STANDARDS FOR MIXED-USE
BUILDINGS. ANSI/BOMA Z65.5-2012
Project No.: 2125.29
Date: June 10, 2021
© 2021

DIMENSIONS
FLOOR PLANS
Austin, Texas
dimensionsfloorplans.com
Phone: (512)342-0114

NOTE:

1. DIMENSIONS ARE TO SHOW ROOM SIZES. SQUARE FOOTAGE CALCULATIONS ARE DONE TO BOMA STANDARDS.
2. BOMA 2020 RETAIL STANDARD IS USED IN THE ANALYSIS OF THIS BUILDING
3. DECK SQUARE FOOTAGE IS INCLUDED IN SUITE 105-A TOTAL SQUARE FOOTAGE.



NOT TO SCALE

Drawing for:
Gracie Matthews
8502 Andres Cove
Austin, TX 78759

SECOND FLOOR
105 & 107 EAST STREET
HUTTO, TEXAS

THE MEASUREMENTS, FLOOR PLANS,
AND CALCULATIONS ARE ACCURATE
USING BOMA MEASUREMENT
STANDARDS FOR MIXED-USE
BUILDINGS. ANSI/BOMA Z65.5-2012
Project No.: 2125.29
Date: June 10, 2021
© 2021

†DIMENSIONS†
FLOOR PLANS
Austin, Texas
dimensionsfloorplans.com
Phone: (512)342-0114



Ⓐ FRONT ELEVATION



Ⓑ REAR ELEVATION

NOT TO SCALE

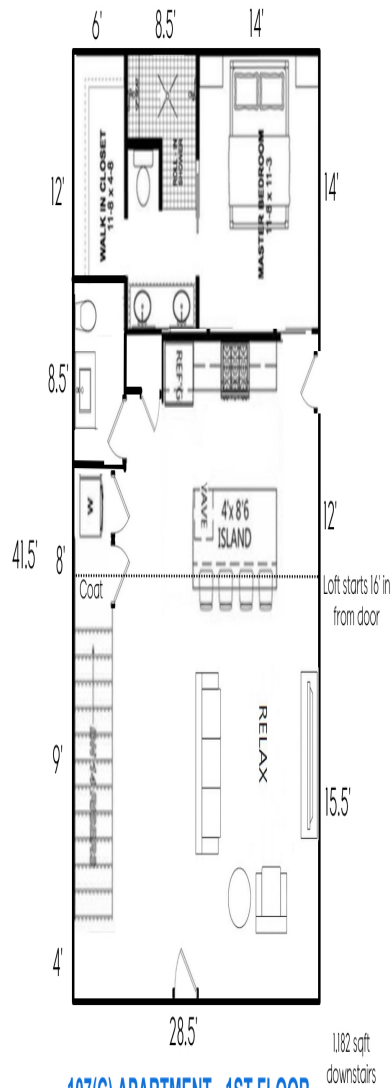
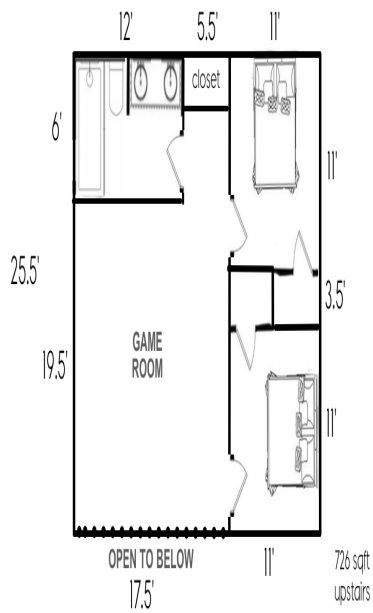
Drawing for:
Gracie Matthews
8502 Andres Cove
Austin, TX 78759

ELEVATIONS
105 & 107 EAST STREET
HUTTO, TEXAS

THE MEASUREMENTS, FLOOR PLANS,
AND CALCULATIONS ARE ACCURATE
USING BOMA MEASUREMENT
STANDARDS FOR MIXED-USE
BUILDINGS. ANSI/BOMA Z65.5-2012
Project No.: 2125.29
Date: June 10, 2021
© 2021

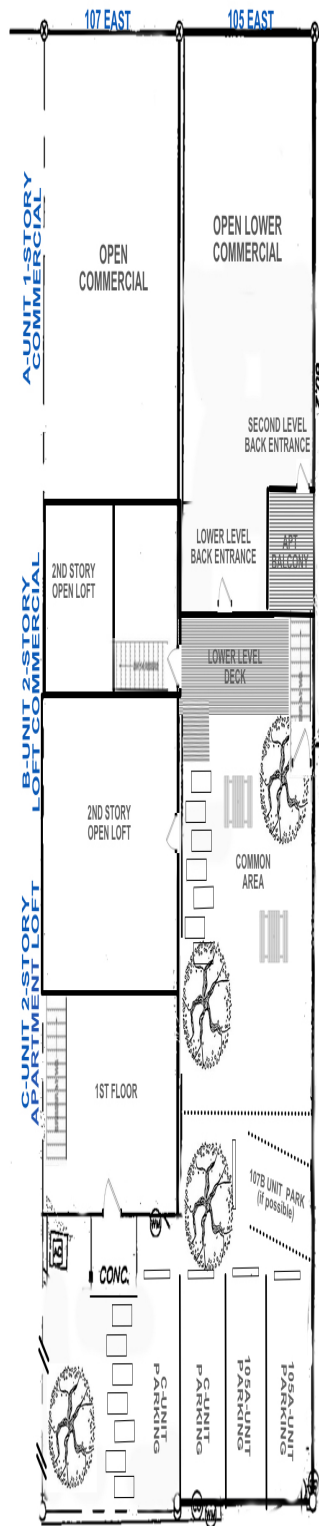
†DIMENSIONS†
FLOOR PLANS
Austin, Texas
dimensionsfloorplans.com
Phone: (512)342-0114

107(C) APARTMENT - 2ND FLOOR

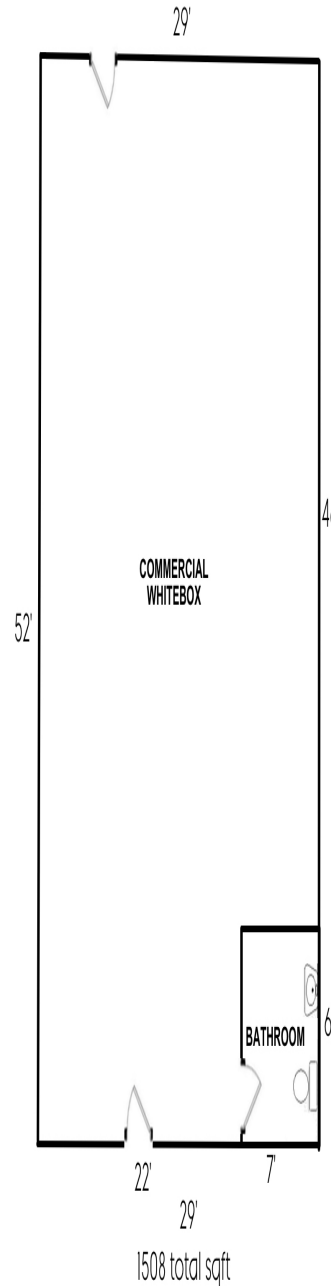


107(C) APARTMENT - 1ST FLOOR

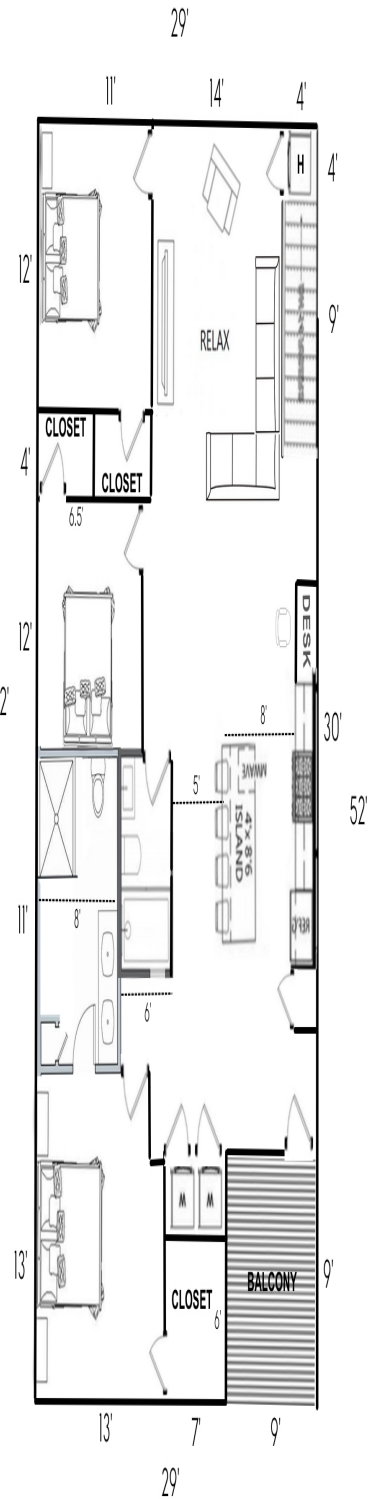
1,908 total sqft



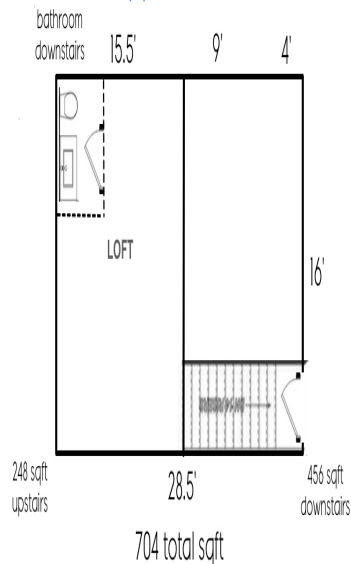
105 EAST A - LOWER COMMERCIAL



105 EAST B - UPPER APARTMENT



107(B) - COMMERCIAL







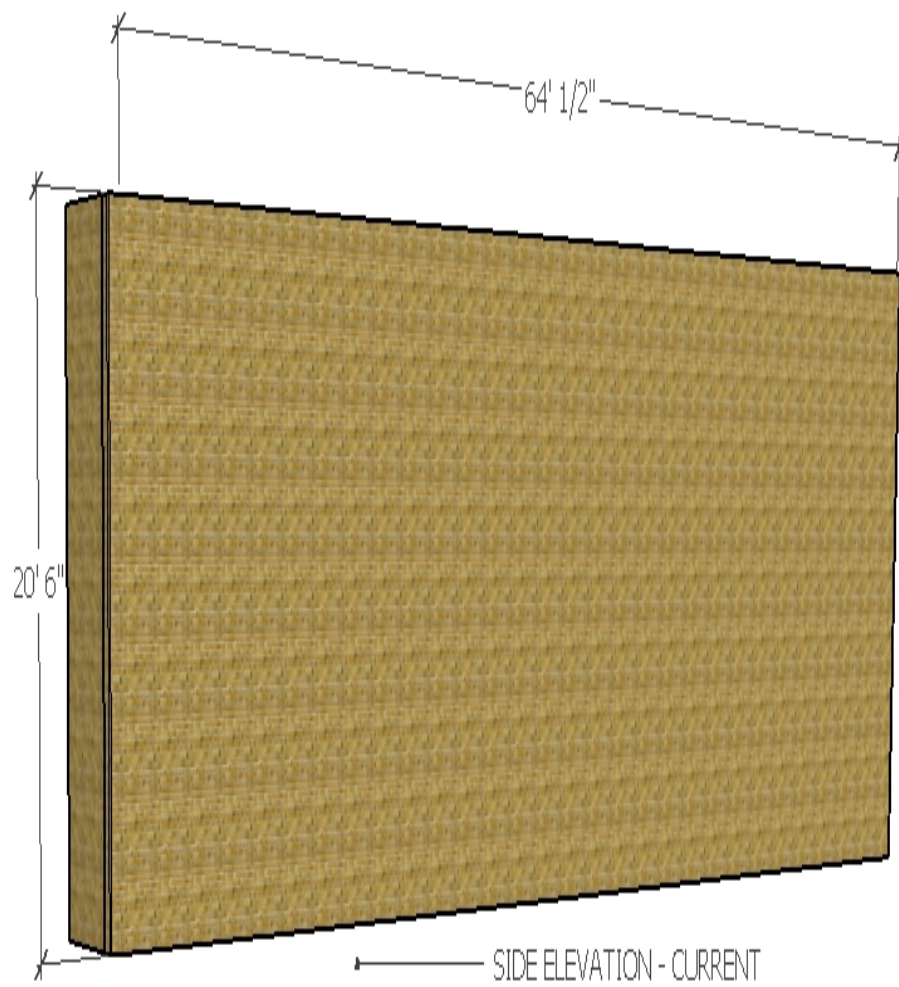


EXHIBIT "A"

FIELD NOTES

JOB NO. 20-1029

DATE: OCTOBER 07, 2020

PAGE 1 OF 2

Field notes to accompany exhibit.

0.09 ACRES

Being 0.09 acres of land, more or less, out of the W. J. Brown Survey, Abstract No. 105, Williamson County, Texas, being that tract called a portion of Lots 6-10, Block 3, out of the International and Great Northern Railroad Addition to the Town of Hutto, said plat recorded in Volume 50, Page 250, Plat Records, Williamson County, Texas, also being called Tract 2 as conveyed to Octave Holdings, LLC, by deed recorded in Document No. 2015030555, Official Public Records, Williamson County, Texas, as surveyed on the ground by Texas Land Surveying, Inc. on October 2nd, 2020, and further described by metes and bounds as follows:

BEGINNING at an x set in concrete in the west line of East Street, marking the southeast corner of a tract called Tract 1 as conveyed to Octave Holdings, LLC, by deed recorded in Document No. 2015030555, of said Official Public Records, for the northeast corner of said Tract 2 and this tract, from which an x set in concrete, marking the northeast corner of said Tract 1, bears N 12°41'17" W, 30.00 feet;

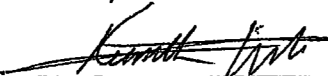
THENCE: S 12°41'17" E, 30.00 feet with the west line of said East Street and the east line of said Tract 2 to an x set in concrete, marking the northeast corner of a tract conveyed to Howard R. Widmer, by deed recorded in Volume 2350, Page 134, Official Records, Williamson County, Texas, for the southeast corner of said Tract 2 and this tract, from which a magnail found in concrete, marking the southeast corner of said Widmer tract, bears S 12°41'17" E, 24.00 feet;

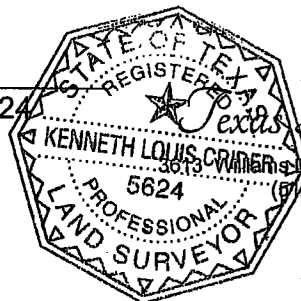
THENCE: S 77°18'43" W, 125.00 feet with the north line of said Widmer tract and the south line of said Tract 2 to a 1/2 inch iron rod with pink cap stamped "TLS" set in the east line of an alley, marking the northwest corner of said Widmer tract, for the southwest corner of said Tract 2 and this tract;

THENCE: N 12°41'17" W, 30.00 feet with the east line of said alley and the west line of said Tract 2 to a 1/2 inch iron rod with pink cap stamped "TLS" set in the south line of said Tract 1, for the northwest corner of said Tract 2 and this tract, from which a 1/2 inch iron rod with pink cap stamped "TLS" set, marking the southwest corner of said Tract 1, bears S 77°18'43" W, 0.69 feet;

THENCE: N 77°18'43" E, 125.00 feet with the south line of said Tract 1 and the north line of said Tract 2 to the Point of Beginning.

Bearings cited hereon based on Grid North Texas State Plane Coordinate System (Central Zone) NAD83

 10-12-20
Kenneth Louis Crider, R.P.L.S. No. 5624
Texas Land Surveying, Inc.
3613 Williams Drive, Suite 903
Georgetown, Texas 78628



Texas Land Surveying, Inc.
3613 Williams Drive, Suite 903 – Georgetown, Texas 78628
(817) 930-1600 www.texas-ls.com
TBPLS FIRM No. 10056200

BEING 0.09 ACRES OF LAND, MORE OR LESS, OUT OF THE W. J. BROWN SURVEY, ABSTRACT NO. 105, WILLIAMSON COUNTY, TEXAS, BEING THAT TRACT CALLED TRACT 2 AS CONVEYED TO OCTAVE HOLDINGS, LLC, BY DEED RECORDED IN DOCUMENT NO. 2015030555, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS.

JOB NO: 20-1029

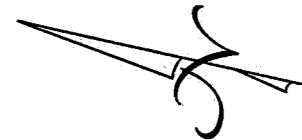
DRAWN: RCG

F.C.: CB/JA

RESTRICTIVE COVENANTS:
ONLY THOSE EASEMENTS AND THAT INFORMATION LISTED IN TITLE COMMITMENT #20-520407-RR, EFFECTIVE DATE OF AUGUST 28, 2020 AND RE-LISTED BELOW WERE CONSIDERED FOR THIS SURVEY:

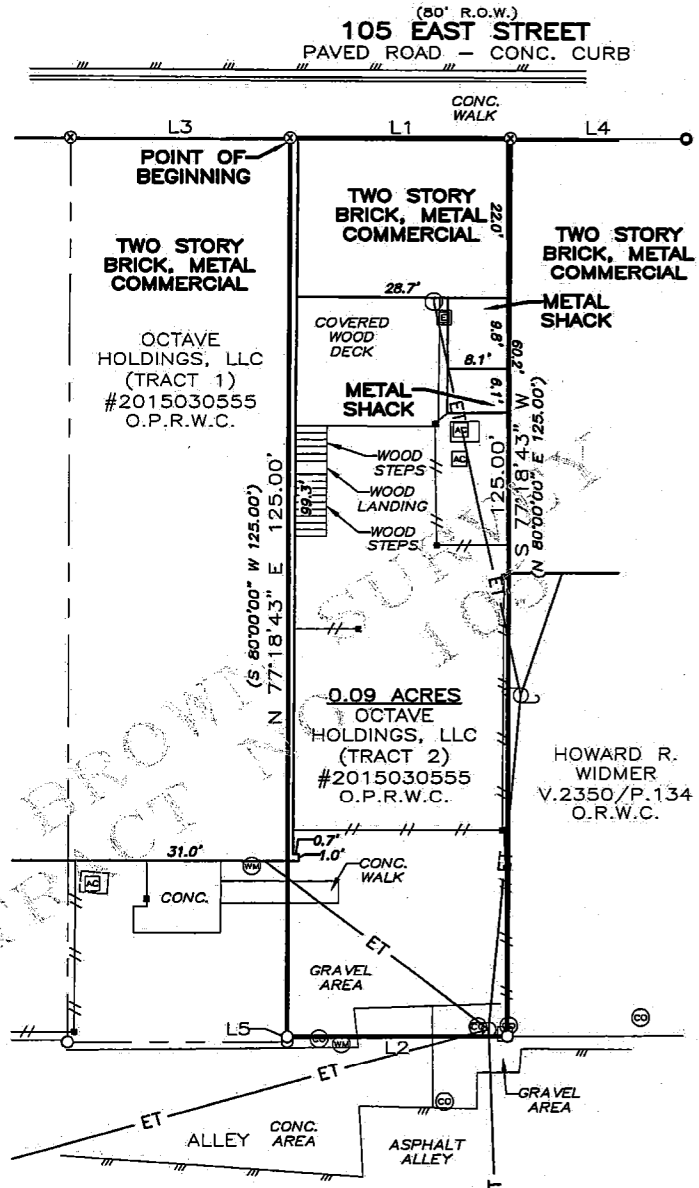
NO SURVEY RELATED MATTERS LISTED.

LINE TABLE		
NUMBER	DIRECTION	DISTANCE
L1	S 12°41'17" E	30.00'
L2	N 12°41'17" W	30.00'
L3	N 12°41'17" W	30.00'
L4	S 12°41'17" E	24.00'
L5	S 77°18'43" W	0.69'
RECORD LINE TABLE		
NUMBER	DIRECTION	DISTANCE
L1	N 10°00'00" W	30.00'
L2	S 10°00'00" E	30.00'



Scale: 1" = 20'
BEARINGS CITED HEREON BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983, TEXAS CENTRAL ZONE.

LEGEND	
○	MAGNAIL FOUND IN CONCRETE
○	1/2" IRON ROD SET WITH PINK CAP STAMPED "TLS"
⊗	X SET IN CONCRETE
///	PAVEMENT
■	FENCE POST
—	WOOD FENCE
○	UTILITY POLE
—	ELECTRIC/TELEPHONE LINES
⊠	AIR CONDITIONER
⊞	CLEANOUT
⊞	ELECTRIC
⊞	SIGN
⊞	TELEPHONE
⊞	WATER METER
()	RECORD INFORMATION
CONC.	CONCRETE
R.O.W.	RIGHT-OF-WAY
O.P.R.W.C.	OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS
O.R.W.C.	OFFICIAL RECORDS OF WILLIAMSON COUNTY, TEXAS



PAGE 2 OF 2

EXHIBIT TO ACCOMPANY FIELD NOTES

CERTIFY TO: CAPITAL TITLE / FIRST NATIONAL TITLE INSURANCE COMPANY / N/A / GF# 20-520407-RR

STATE OF TEXAS

§

KNOW ALL MEN BY THESE PRESENTS

COUNTY OF WILLIAMSON

§

THAT SURVEYOR FOR TEXAS LAND SURVEYING, INC., HAVE THIS DATE CAUSED TO BE PERFORMED AN ON-THE-GROUND SURVEY UNDER MY SUPERVISION OF THE FOREGOING TRACT OF LAND AND TO THE BEST OF MY KNOWLEDGE AND BELIEF THERE ARE NO DISCREPANCIES, CONFLICTS, SHORTAGES IN AREA, ENCROACHMENTS, VISIBLE UTILITY LINES OR ROADS IN PLACE, AND THAT SAID PROPERTY ADJOINS A DEDICATED ROADWAY, EXCEPT AS SHOWN HEREON.

Texas Land Surveying, Inc.

—A Land Surveying and Geoscience Firm—

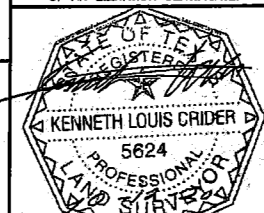
3613 Williams Drive, Suite 903 — Georgetown, Texas 78628

(512) 930-1600/(512) 930-9389 fax www.texas-ls.com

TBPES LAND SURVEYING FIRM NO.10056200 GEOSCIENCE FIRM NO.50538

IF THIS DOCUMENT DOES NOT CONTAIN THE RED STAMPED SEAL OF THE UNDERSIGNED SURVEYOR, IT IS AN UNAUTHORIZED/ILLEGAL COPY. TEXAS LAND SURVEYING, INC. ASSUMES NO LIABILITY FROM THE USE OF ANY UNAUTHORIZED/ILLEGAL DOCUMENT.

THIS AREA DOES NOT APPEAR TO BE IN SPECIAL FLOOD HAZARD AREAS PER FEMA'S FLOOD INSURANCE RATE MAP #48491C0520F, DATED DEC. 20, 2019. THIS STATEMENT IS NOT MADE IN LIEU OF AN ELEVATION CERTIFICATE.



Witness my hand and seal this the 2nd Day of October, 2020 A.D.

© COPYRIGHT 2020 BY TEXAS LAND SURVEYING, INC. THIS SURVEY PROVIDED SOLELY FOR THE USE OF THE CURRENT PARTIES AND NO LICENSE HAS BEEN CREATED, EXPRESSED OR IMPLIED, TO COPY THE SURVEY EXCEPT AS NECESSARY IN CONJUNCTION WITH THE ORIGINAL TRANSACTION, WHICH SHALL TAKE PLACE WITHIN 90 DAYS OF THE COMPLETION OF THE SURVEY.

EXHIBIT "A"

FIELD NOTES

JOB NO. 20-1030

DATE: OCTOBER 07, 2020

PAGE 1 OF 2

Field notes to accompany exhibit.

0.09 ACRES

Being 0.09 acres of land, more or less, out of the W. J. Brown Survey, Abstract No. 105, Williamson County, Texas, being that tract called a portion of Lots 6-10, Block 3, out of the International and Great Northern Railroad Addition to the Town of Hutto, said plat recorded in Volume 50, Page 250, Plat Records, Williamson County, Texas, also being called Tract 1 as conveyed to Octave Holdings, LLC, by deed recorded in Document No. 2015030555, Official Public Records, Williamson County, Texas, as surveyed on the ground by Texas Land Surveying, Inc. on October 2nd, 2020, and further described by metes and bounds as follows:

BEGINNING at an x set in concrete in the west line of East Street, marking the northeast corner of a tract called Tract 2 as conveyed to Octave Holdings, LLC, by deed recorded in Document No. 2015030555, of said Official Public Records, for the southeast corner of said Tract 1 and this tract, from which an x set in concrete, marking the southeast corner of said Tract 2, bears S 12°41'17" E, 30.00 feet;

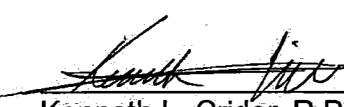
THENCE: S 77°18'43" W, with the north line of said Tract 2 and the south line of said Tract 1 at 125.00 feet passing a 1/2 inch iron rod with pink cap stamped "TLS" set, marking the northwest corner of said Tract 2, continuing in all **125.69 feet** to a 1/2 inch iron rod with pink cap stamped "TLS" set in the east line of an alley, for the southwest corner of said Tract 1 and this tract;

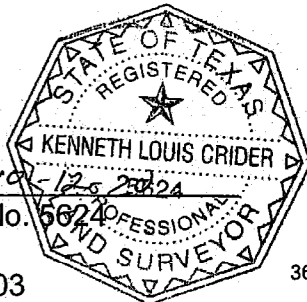
THENCE: N 12°35'34" W, 30.00 feet with the east line of said alley and the west line of said Tract 1 to a 1/2 inch iron rod with pink cap stamped "TLS" set, for the northwest corner of said Tract 1 and this tract;

THENCE: N 77°18'43" E, 125.64 feet with the north line of said Tract 1 and in part with the south line of a tract conveyed to East Street 109, LLC, by deed recorded in Document No. 2016074745, of said Official Public Records, to an x set in concrete in the west line of said East Street, for the northeast corner of said Tract 1 and this tract;

THENCE: S 12°41'17" E, 30.00 feet with the west line of said East Street and the east line of said Tract 1 to the Point of Beginning.

Bearings cited hereon based on Grid North Texas State Plane Coordinate System (Central Zone) NAD83


Kenneth L. Crider, R.P.L.S. No. 5624
Texas Land Surveying, Inc.
3613 Williams Drive, Suite 903
Georgetown, Texas 78628



Texas Land Surveying, Inc.

3613 Williams Drive, Suite 903 – Georgetown, Texas 78628
(512) 930-1600 www.texas-ls.com
TBPLS FIRM No. 10056200

BEING 0.09 ACRES OF LAND, MORE OR LESS, OUT OF THE W. J. BROWN SURVEY, ABSTRACT NO. 105, WILLIAMSON COUNTY, TEXAS, BEING THAT TRACT CALLED TRACT 1 AS CONVEYED TO OCTAVE HOLDINGS, LLC, BY DEED RECORDED IN DOCUMENT NO. 2015030555, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS.

JOB NO: 20-1030

DRAWN: RCG

F.C.: CB/JA

RESTRICTIVE COVENANTS:
ONLY THOSE EASEMENTS AND THAT INFORMATION LISTED IN TITLE COMMITMENT #20-520407-RR, EFFECTIVE DATE OF AUGUST 28, 2020 AND RE-LISTED BELOW WERE CONSIDERED FOR THIS SURVEY:

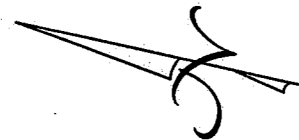
NO SURVEY RELATED MATTERS LISTED.

(80' R.O.W.)
107 EAST STREET
PAVED ROAD - CONC. CURB

LINE TABLE		
NUMBER	DIRECTION	DISTANCE
L1	S 12°41'17" E	30.00'
L2	N 12°35'34" W	30.00'
L3	S 12°41'17" E	30.00'

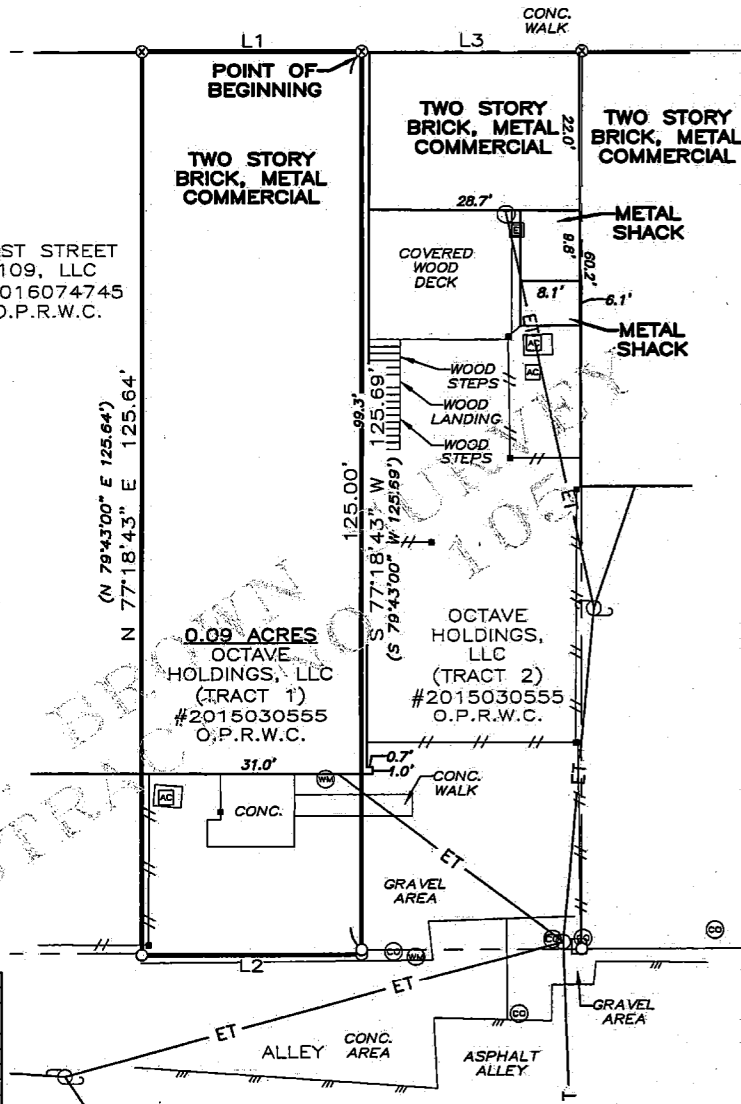
RECORD LINE TABLE		
NUMBER	DIRECTION	DISTANCE
L1	S 10°10'00" E	30.00'
L2	N 09°54'00" W	30.00'

EAST STREET
109, LLC
#2016074745
O.P.R.W.C.



Scale: 1" = 20'
BEARINGS CITED HEREON BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983, TEXAS CENTRAL ZONE.

LEGEND	
○	MAGNAIL FOUND IN CONCRETE
○	1/2" IRON ROD SET WITH PINK CAP STAMPED "TLS"
⊗	X SET IN CONCRETE
///	PAVEMENT
■	FENCE POST
—	WOOD FENCE
○	UTILITY POLE
—	ELECTRIC/TELEPHONE LINES
⊠	AIR CONDITIONER
⊞	CLEANOUT
⊞	ELECTRIC
⊞	SIGN
⊞	TELEPHONE
⊞	WATER METER
⊞	RECORD INFORMATION
CONC.	CONCRETE
R.O.W.	RIGHT-OF-WAY
O.P.R.W.C.	OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS



PAGE 2 OF 2

EXHIBIT TO ACCOMPANY FIELD NOTES

CERTIFY TO: CAPITAL TITLE / FIRST NATIONAL TITLE INSURANCE COMPANY / N/A / GF# 20-520407-RR

STATE OF TEXAS

KNOW ALL MEN BY THESE PRESENTS

COUNTY OF WILLIAMSON

THAT SURVEYOR FOR TEXAS LAND SURVEYING, INC., HAVE THIS DATE CAUSED TO BE PERFORMED AN ON-THE-GROUND SURVEY UNDER MY SUPERVISION OF THE FOREGOING TRACT OF LAND AND TO THE BEST OF MY KNOWLEDGE AND BELIEF THERE ARE NO DISCREPANCIES, CONFLICTS, SHORTAGES IN AREA, ENCROACHMENTS, VISIBLE UTILITY LINES OR ROADS IN PLACE, AND THAT SAID PROPERTY ADJOINS A DEDICATED ROADWAY, EXCEPT AS SHOWN HEREON.

Texas Land Surveying, Inc.

—A Land Surveying and Geoscience Firm—

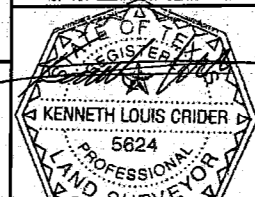
3613 Williams Drive, Suite 903 — Georgetown, Texas 78628

(512) 930-1600/(512) 930-9389 fax www.texas-land.com

TBPELS LAND SURVEYING FIRM NO.10056200 GEOSCIENCE FIRM NO.50538

IF THIS DOCUMENT DOES NOT CONTAIN THE RED STAMPED SEAL OF THE UNDERSIGNED SURVEYOR, IT IS AN UNAUTHORIZED/ILLEGAL COPY. TEXAS LAND SURVEYING, INC. ASSUMES NO LIABILITY FROM THE USE OF ANY UNAUTHORIZED/ILLEGAL DOCUMENT.

THIS AREA DOES NOT APPEAR TO BE IN SPECIAL FLOOD HAZARD AREAS PER FEMA'S FLOOD INSURANCE RATE MAP #48491C0520F, DATED DEC. 20, 2019. THIS STATEMENT IS NOT MADE IN LIEU OF AN ELEVATION CERTIFICATE.



Witness my hand and seal this the 2nd Day of October, 2020 A.D.

© Copyright 2020 by Texas Land Surveying, Inc. This survey provided solely for the use of the current parties and no license has been created, expressed or implied, to copy the survey except as necessary in conjunction with the original transaction, which shall take place within 90 days of the completion of the survey.

AGENDA ITEM REPORT



To: Historic Preservation Commission
Subject: Update, discussion and possible action pursuant to the Hutto Historical Writing Committee.
Meeting: Wednesday, September 22, 2021
Department: Development Services
Staff Contact:

BACKGROUND INFORMATION:

This item is requested on behalf of the Historic Preservation Chairperson. This will be a reoccurring item on future agendas.

SUMMARY OF REQUEST:

STAFF REVIEW:

FINANCIAL IMPACT:

POLICY IMPLICATIONS:

ATTACHMENTS:

None