



City of Hutto

Agenda

Historic Preservation Commission

Tuesday, July 27, 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 appointing of the Historic Preservation Commission Chair and Vice Chair positions.
- 4.2. Consideration and possible action on the meeting minutes for the Special Called Historic Preservation Commission meeting held on May 25, 2021.
- 4.3. Consideration and possible action on a Certificate of Appropriateness for a renovation and demolition of an existing gymnasium known as Riverhorse Academy at 200 College Street.
- 4.4. Consideration and possible action on a Certificate of Appropriateness request for a new Hutto ISD Administration Building at the northwest corner of Redbud Street and Taylor Street.
- 4.5. Consideration and possible action on Organizing a Hutto History Writing Committee.

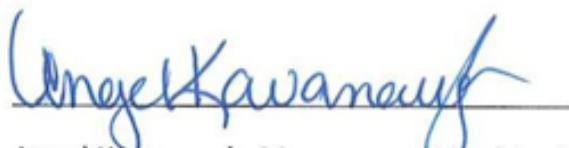
5. HISTORIC PRESERVATION OFFICER REPORT

6. ADJOURNMENT

7. 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 DATE 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@huttotx.gov or call (512) 759-4033 for assistance.

AGENDA ITEM REPORT



To: Historic Preservation Commission
Subject: Consideration and possible action on the appointing of the Historic Preservation Commission Chair and Vice Chair positions.
Meeting: Tuesday, July 27, 2021
Department: Development Services
Staff Contact:

BACKGROUND INFORMATION:

SUMMARY OF REQUEST:

STAFF REVIEW:

FINANCIAL IMPACT:

POLICY IMPLICATIONS:

ATTACHMENTS:

None

AGENDA ITEM REPORT



To: Historic Preservation Commission
Subject: Consideration and possible action on the meeting minutes for the Special Called Historic Preservation Commission meeting held on May 25, 2021.
Meeting: Tuesday, July 27, 2021
Department: Development Services
Staff Contact:

BACKGROUND INFORMATION:

SUMMARY OF REQUEST:

STAFF REVIEW:

FINANCIAL IMPACT:

POLICY IMPLICATIONS:

ATTACHMENTS:

1. HPC Meeting Minutes 5.25.21



City of Hutto

Minutes

Historic Preservation Commission

Tuesday, May 25, 2021 at 7:00 PM

City Council Chambers

1. CALL SESSION TO ORDER

Meeting was called to order at 7:00PM

2. ROLL CALL

Members of the Historic Preservation Commission present were: Travis Allen, Curtis Orton and Jon Stephenson. Members absent were: Robert Lykins and DeAnn Worley.

Member of the City of Hutto Staff in attendance were: Ashley Lumpkin, Executive Director of Development Services and Ashby Grundman, Director of Planning.

3. PUBLIC COMMENT

No public Comment

4. AGENDA ITEMS

- 4.1. Consideration and possible action on the meeting minutes from the Special Called Historic Preservation Commission Meeting held on March 9, 2021.

Commissioner Jon Stephenson made a motion to accept the meeting minutes from the Special Called Historic Preservation Commission Meeting held on March 9, 2021 as written, Commissioner Travis Allen seconded the motion. Motion passed 3 Ayes to 0 Nays.

- 4.2. Consideration and possible action on a Certificate of Appropriateness request for a fence at 102 West Pecan Street.

Commissioner Travis Allen made a motion to accept action on a Certificate of Appropriateness request for a fence at 102 West Pecan Street as written, seconded by Commissioner Curtis Orton. Motion passed 3 Ayes to 0 Nays.

5. HISTORIC PRESERVATION OFFICER REPORT

- 5.1. Update regarding ongoing projects including, but not limited to the Big Silo at the Co-Op District and the Railroad Depot at 200 College Street.

Staff updated Commission on projects in Hutto, spoke on 5-year plan suggestions made by Commissioner Jon Stephenson.

6. ADJOURNMENT

Meeting was adjourned at 7:56PM.

Chair

AGENDA ITEM REPORT



To: Historic Preservation Commission
Subject: Consideration and possible action on a Certificate of Appropriateness for a renovation and demolition of an existing gymnasium known as Riverhorse Academy at 200 College Street.
Meeting: Tuesday, July 27, 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 the gymnasium only.

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.

The gymnasium, as shown on the submitted plans, is partially in the right-of-way, this encroachment will need to be accepted and allowed by a separate encroachment agreement as there is no desire to vacate a portion of a right-of-way in the area. The new administration building will require a tree removal permit as

The proposed renovation plans and the ISD's project scope is included with this packet.

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.

As far as the gymnasium is renovation project, staff recommends the Historic Preservation Commission approve the Certificate of Appropriateness request.

FINANCIAL IMPACT:

POLICY IMPLICATIONS:

AGENDA ITEM REPORT



ATTACHMENTS:

1. 20-038_Gym_Plans
2. Projects at College Street Campus

HUTTO ISD HUTTO ISD GYM RENOVATION

302 COLLEGE STREET HUTTO, TX 78634

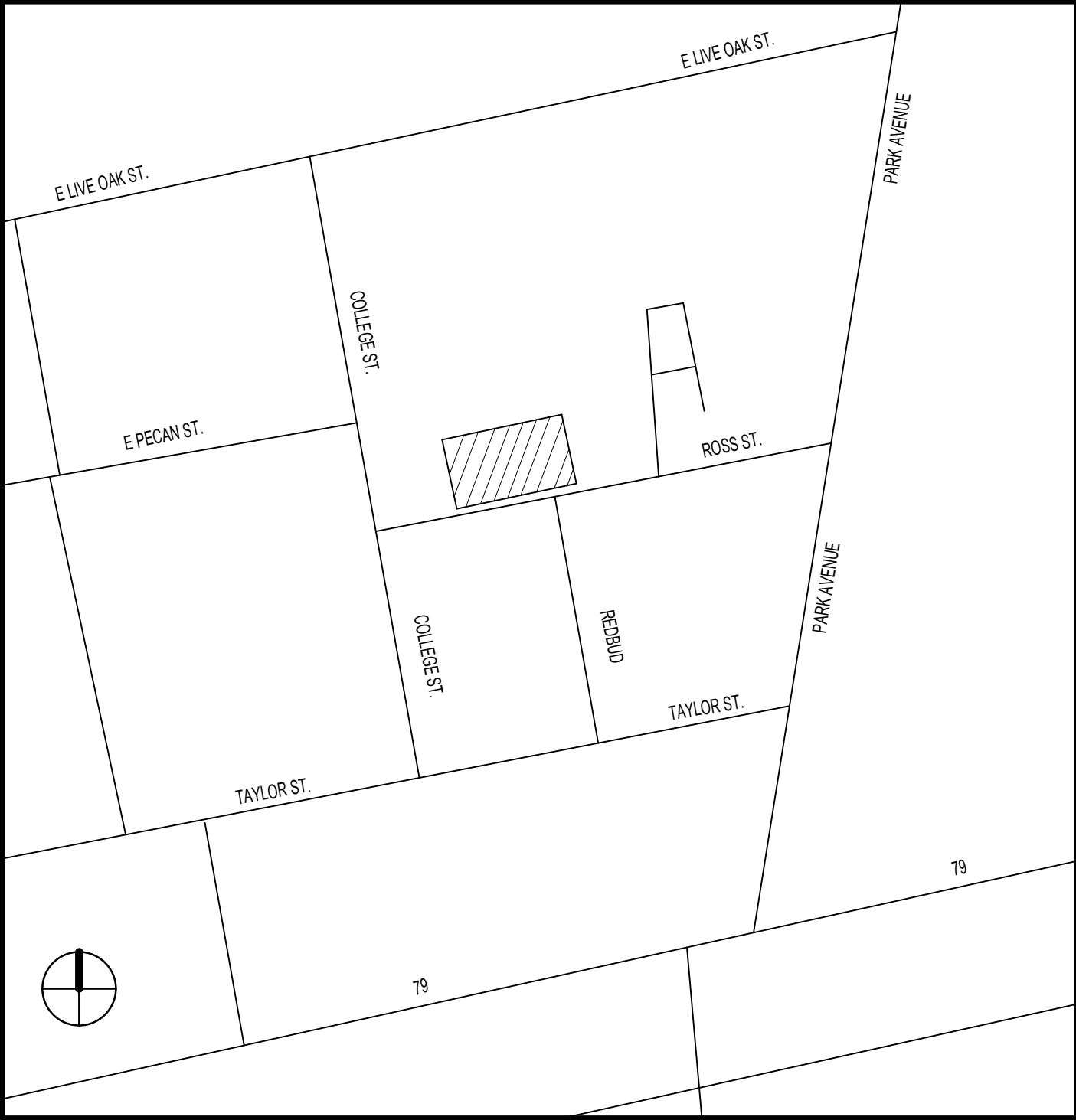
INDEX OF DRAWINGS

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	REPOINT EXTERIOR BRICK VENEER AT GYMNASIUM. MATCH EXISTING GROUT
ALTERNATE 2	PROVIDE AND INSTALL GUTTERS AND DOWNSPOUTS AT GYMNASIUM AS SHOWN ON PLANS
ALTERNATE 3	REPAIR SOFT SPOTS AT EXISTING WOOD GYMNASIUM FLOOR AND REFINISH FLOOR. MATCH EXISTING COURT LINES AND MARKINGS
ALTERNATE 4	PROVIDE AND INSTALL TECTUM ACOUSTICAL PANELS IN GYMNASIUM AS SHOWN ON PLANS AND SPECIFIED
ALTERNATE 5	IN LIEU OF TYING INTO EXISTING SEWER LINE, REPLACE EXISTING SEWER LINE FROM GYMNASIUM BUILDING TO THE EXISTING TAP IN THE PUBLIC SEWER LINE
ALTERNATE 6	IN LIEU OF TYING INTO THE EXISTING WATER LINE, REPLACE THE WATER LINE FROM THE GYMNASIUM BUILDING TO THE EXISTING WATER METER
ALTERNATE 7	PROVIDE AND INSTALL PROJECTION SCREEN, PROJECTOR, AND RELATED EQUIPMENT PER TECHNOLOGY PLANS AND SPECIFICATIONS
ALTERNATE 8	REFINISH EXISTING WOOD BLEACHERS, CEILINGS BELOW BLEACHERS AT ENTRANCE DOORS, AND WOOD WALL PANELING ON BLEACHER ENDS.
ALTERNATE 9	REFINISHING SHALL INCLUDE SANDING, STAINING, AND SEALING ALL SURFACES. PATCHING AND REPAIR OF DAMAGED PANELING SHALL BE INCLUDED IN THIS PRICE
ALTERNATE 10	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

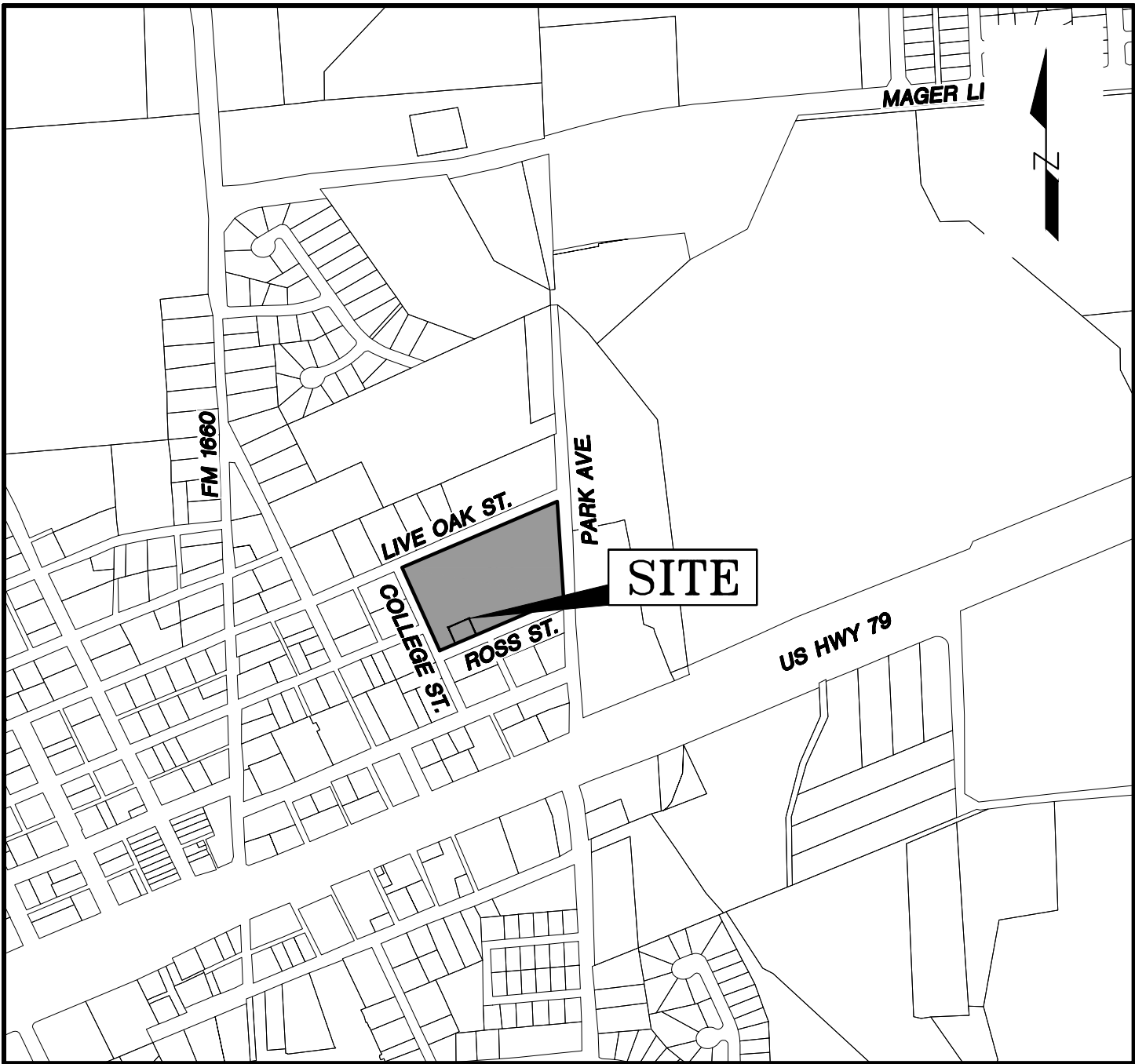
G0.00
COVER

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:

1. 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.

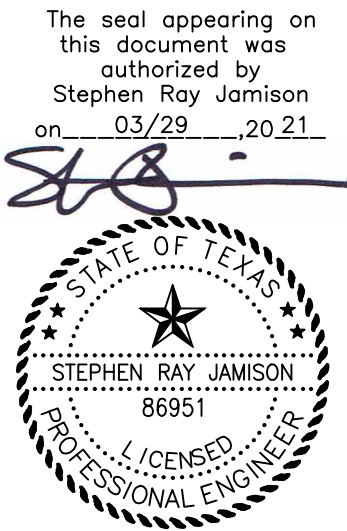
SITE PLAN COMPONENTS - ALL BUILDING AND STRUCTURAL IMPROVEMENTS SHOWN HEREON ARE SHOWN FOR CONCEPTUAL PURPOSES ONLY. JAMISON CIVIL ENGINEERING LLC IS NOT RESPONSIBLE OR LIABLE FOR THE DESIGN OF BUILDING AND STRUCTURAL IMPROVEMENTS BY OTHERS.

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

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

01 of 14

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

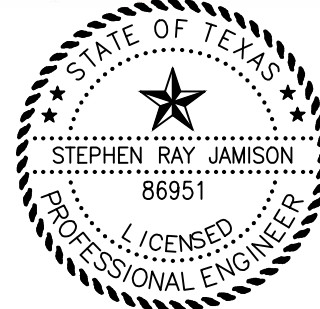
302 COLLEGE ST., HUTTO, TX 78634

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

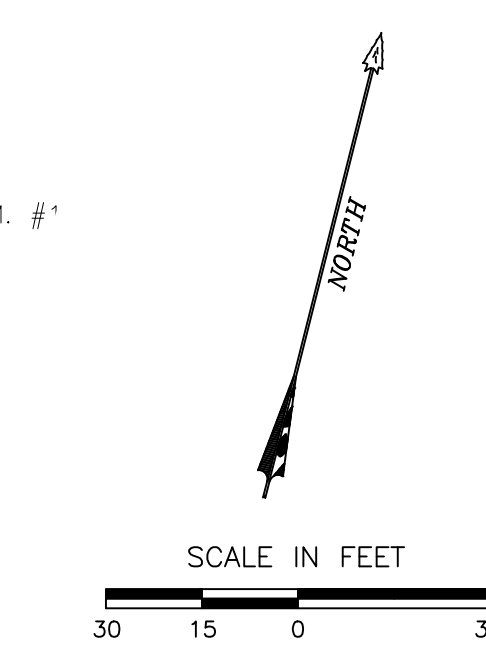
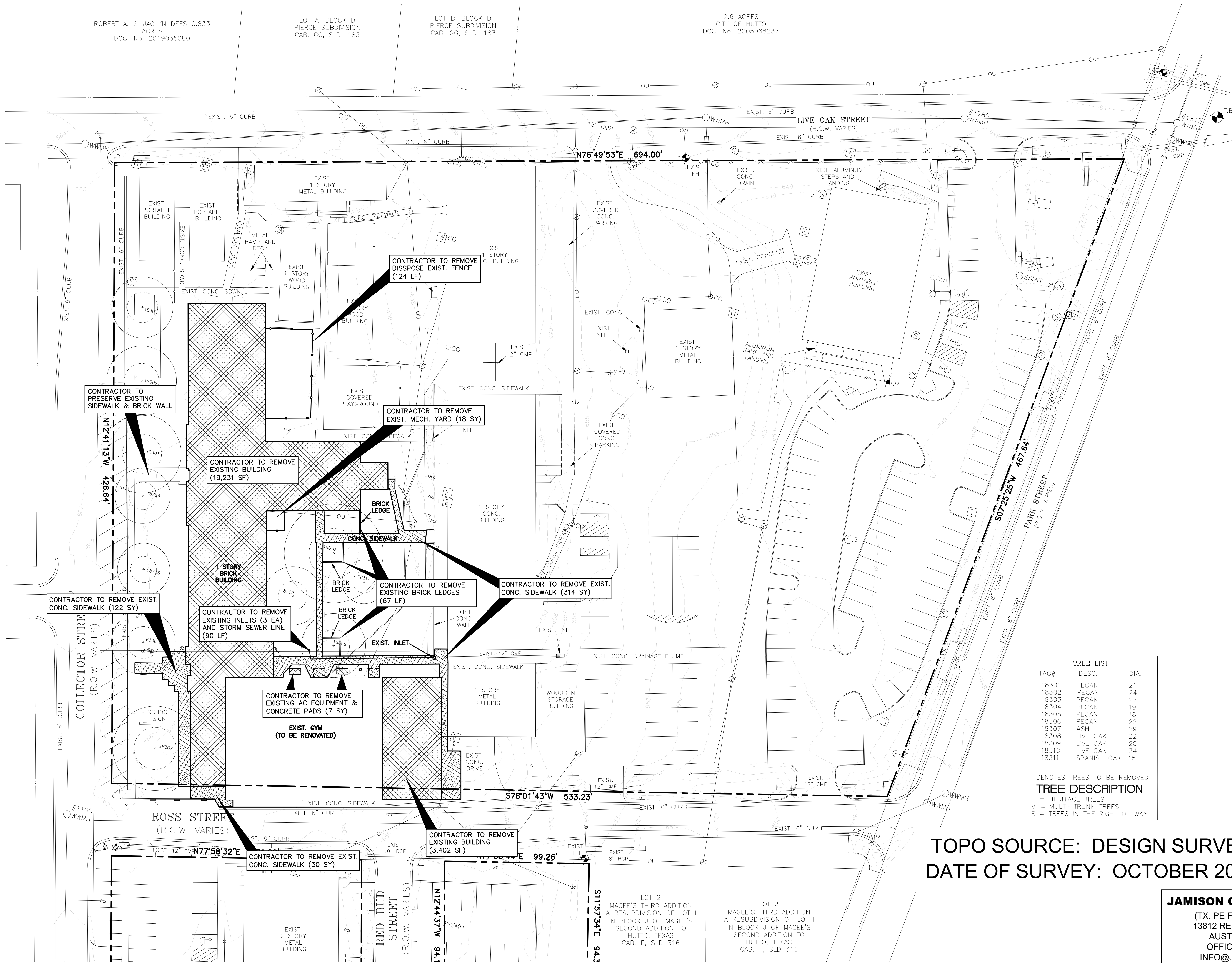
02 of 14

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



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

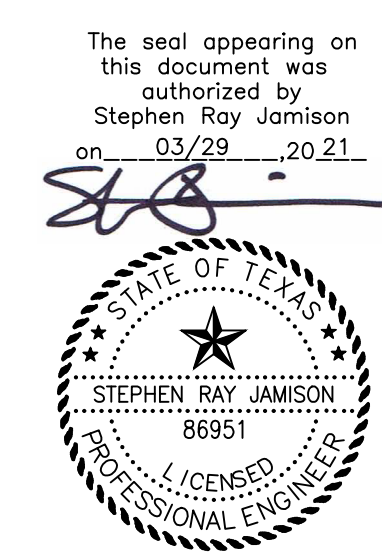
BENCHMARK:
TBM#1: 4" ALUMINUM DISK SET IN CONCRETE FOR CHAPARRAL CONTROL POINT "R061", LOCATED AT THE NORTHEASTERN SIDE OF THE BOUNDARY WHERE LIVE OAK STREET AND PARK STREET INTERSECT, APPROXIMATELY 7.7' FROM THE BACK OF CURB.
ELEVATION = 646.78'
DATUM: NAVD 88 (GEOID 18)

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

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

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

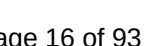
200 COLLEGE STREET
HUTTO, TX 78634

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

EXISTING CONDITIONS & DEMOLITION PLAN
BID SET

03 of 14

2.6 ACRES
CITY OF HUTTO
DOC. No. 2005068237



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%
TRIANGLE FILTER DIKE	50 FEET	1/2 ACRE	> 30%
	100 FEET	1/2 ACRE	< 30% SLOPE
ROCK BERM **, **	50 FEET	1/4 ACRE	> 30% SLOPE
	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.

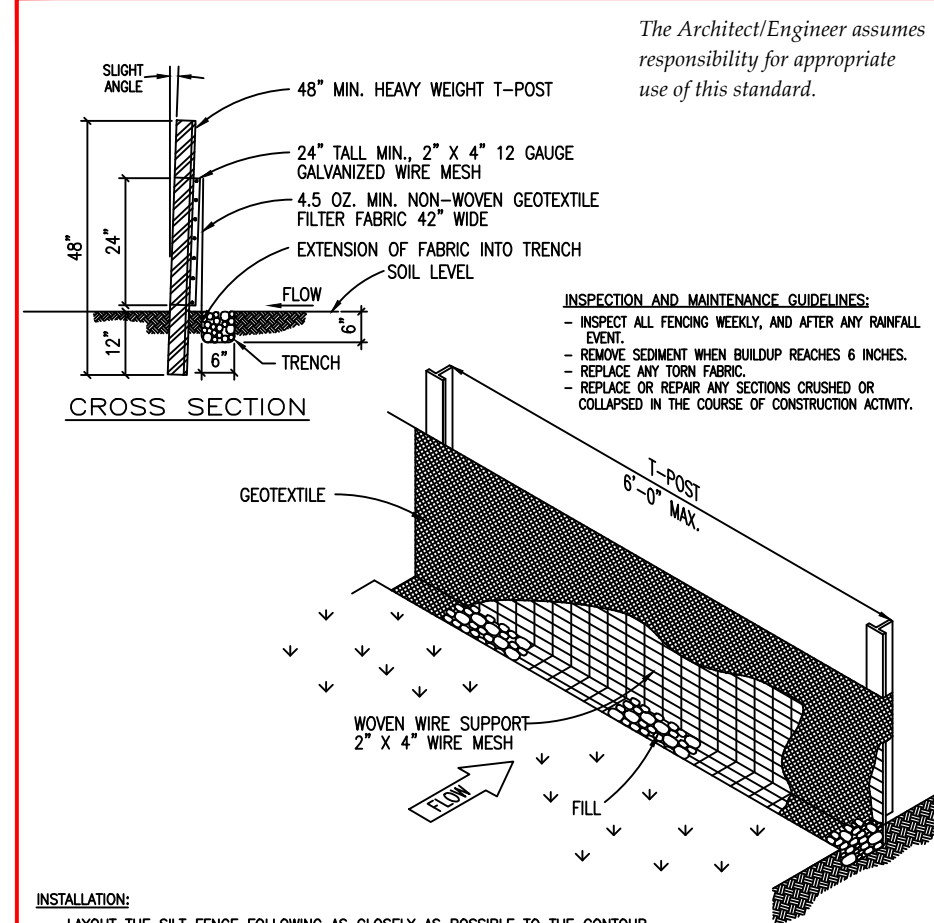


CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
TEMPORARY EROSION AND
SEDIMENTATION CONTROL GUIDELINES

ADOPTED 6/21/2006

EC01

MTS	1/2003
MTS	1/2003



INSTALLATION:

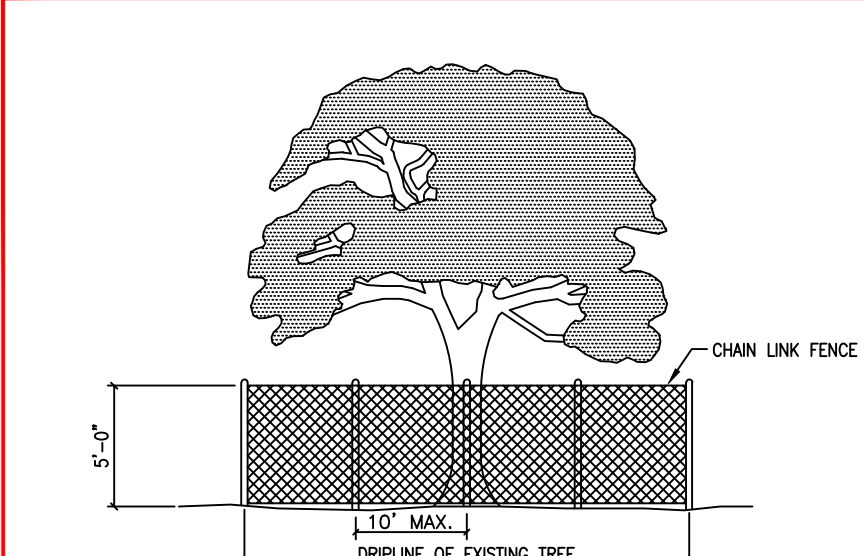
- LAYOUT THE SILT FENCE FOLLOWING AS CLOSELY AS POSSIBLE TO THE CURB.
- CLEAR THE GROUND OF JOBBES, ROCKS, PLANTS (INCLUDING GRASSES TALLER THAN 2") TO UPSTREAM SIDE OF FACE PER PLANE SURFACE. EXCAVATE 6" DEEP X 6" WIDE TRENCH ON DOWNSTREAM SIDE OF FACE PER PLANE SURFACE.
- DRIVE THE HEAVY DUTY T-POST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

MTS	1/2003
MTS	1/2003

CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
SILT FENCE DETAIL

ADOPTED 6/21/2006

EC02



- NOTES:
- TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING).
 - 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:
 - SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MATERIALS.
 - ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN SIX INCHES (6") CUT OR FILL, OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE CITY.
 - WOUNDS TO EXPOSED ROOTS, TRUNKS OR LIMBS BY MECHANICAL EQUIPMENT.
 - OTHER ACTIVITIES DETRIMENTAL TO TREES, SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING AND FIRE.
 - EXCEPTIONS TO INSTALLING FENCES AT TREE DROPLINES MAY BE PERMITTED IN THE FOLLOWING CASES:
 - WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA.
 - 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.

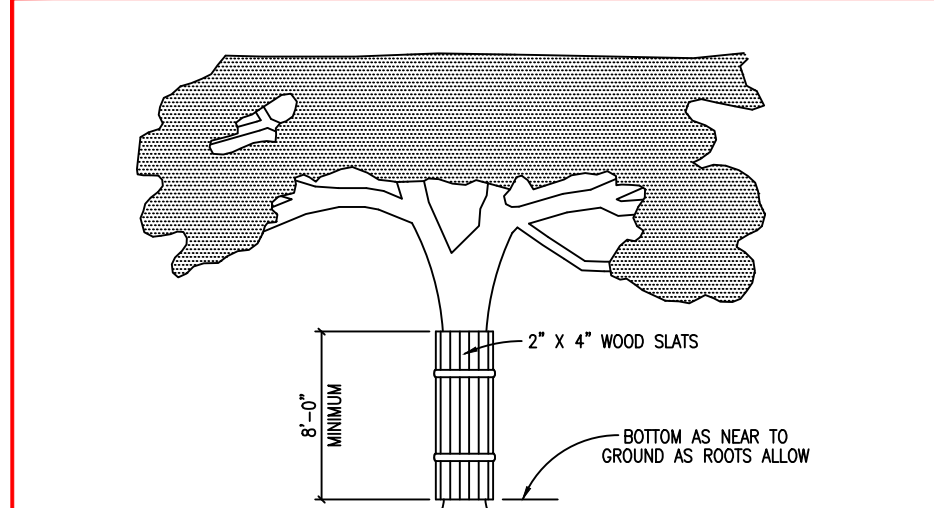


CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
TREE PROTECTION -
CHAIN LINK FENCE

ADOPTED 6/21/2006

EC09

MTS	1/2003
MTS	1/2003



- NOTES:
- 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.
 - 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.
 - 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.
 - 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.
 - ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
 - 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.
 - 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.

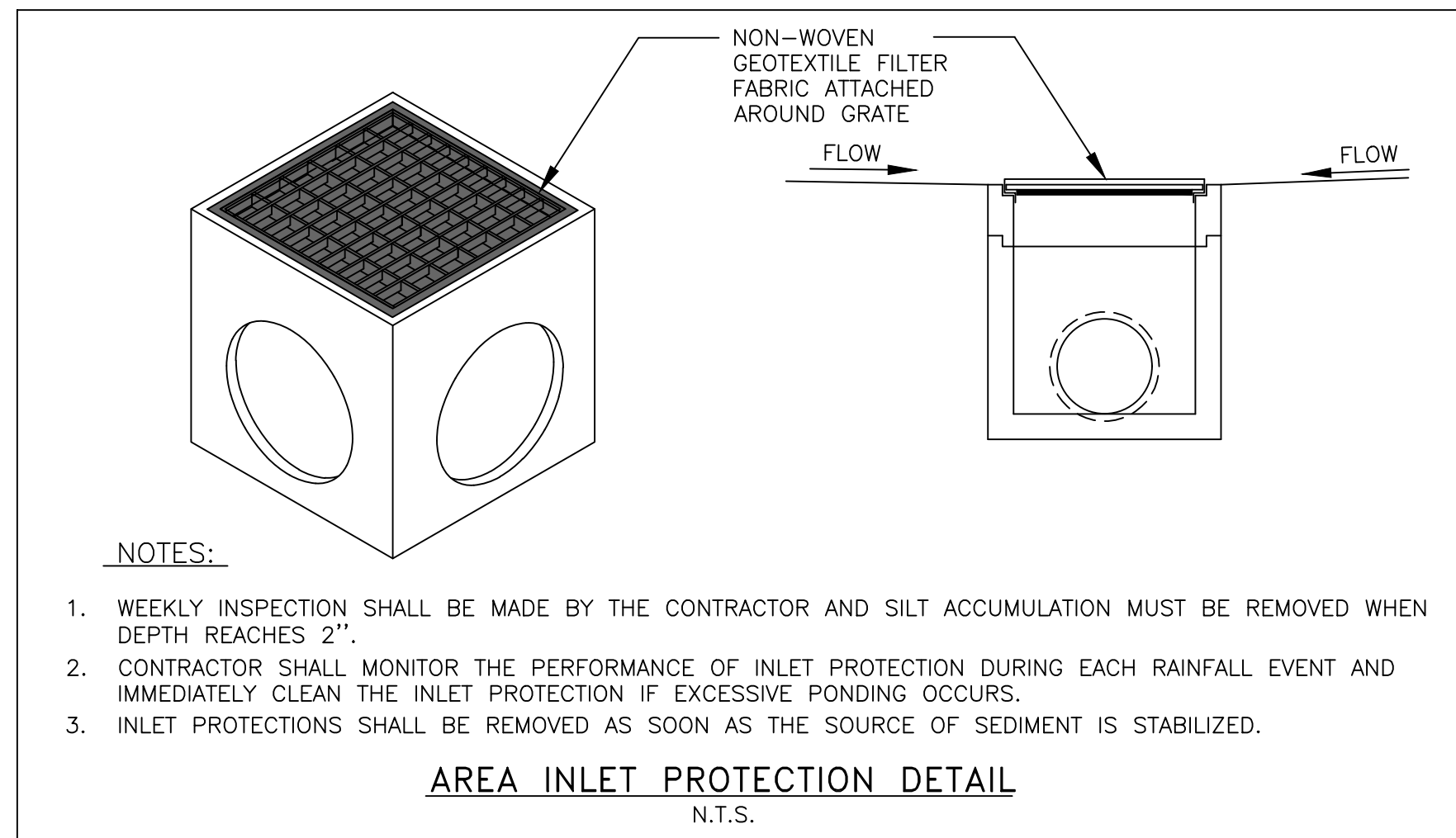


CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
TREE PROTECTION - WOOD SLATS

ADOPTED 6/21/2006

EC10

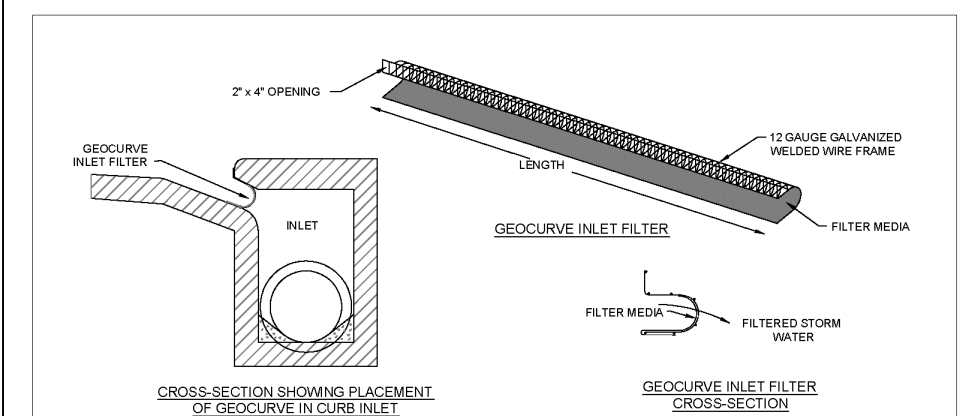
MTS	1/2003
MTS	1/2003



NOTES:

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

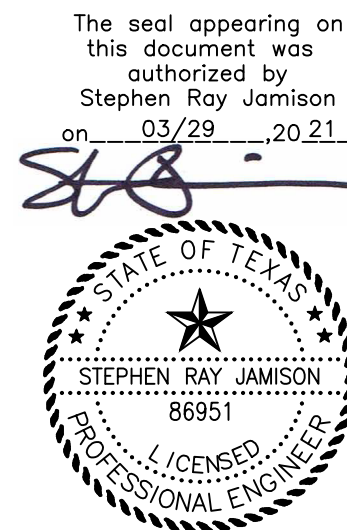
AREA INLET PROTECTION DETAIL
N.T.S.



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

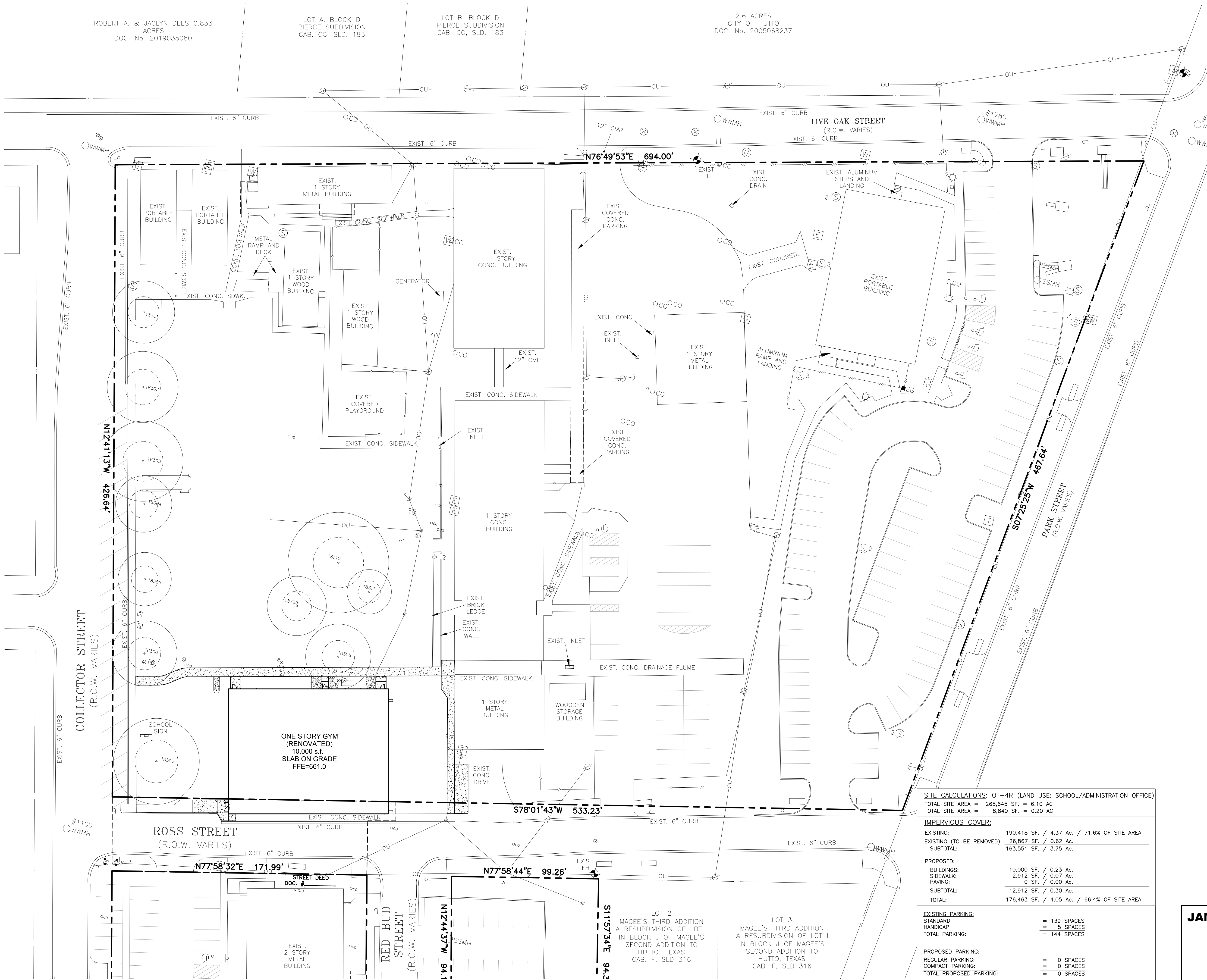
EROSION
SEDIMENTATION
CONTROL
DETAILS

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



- 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

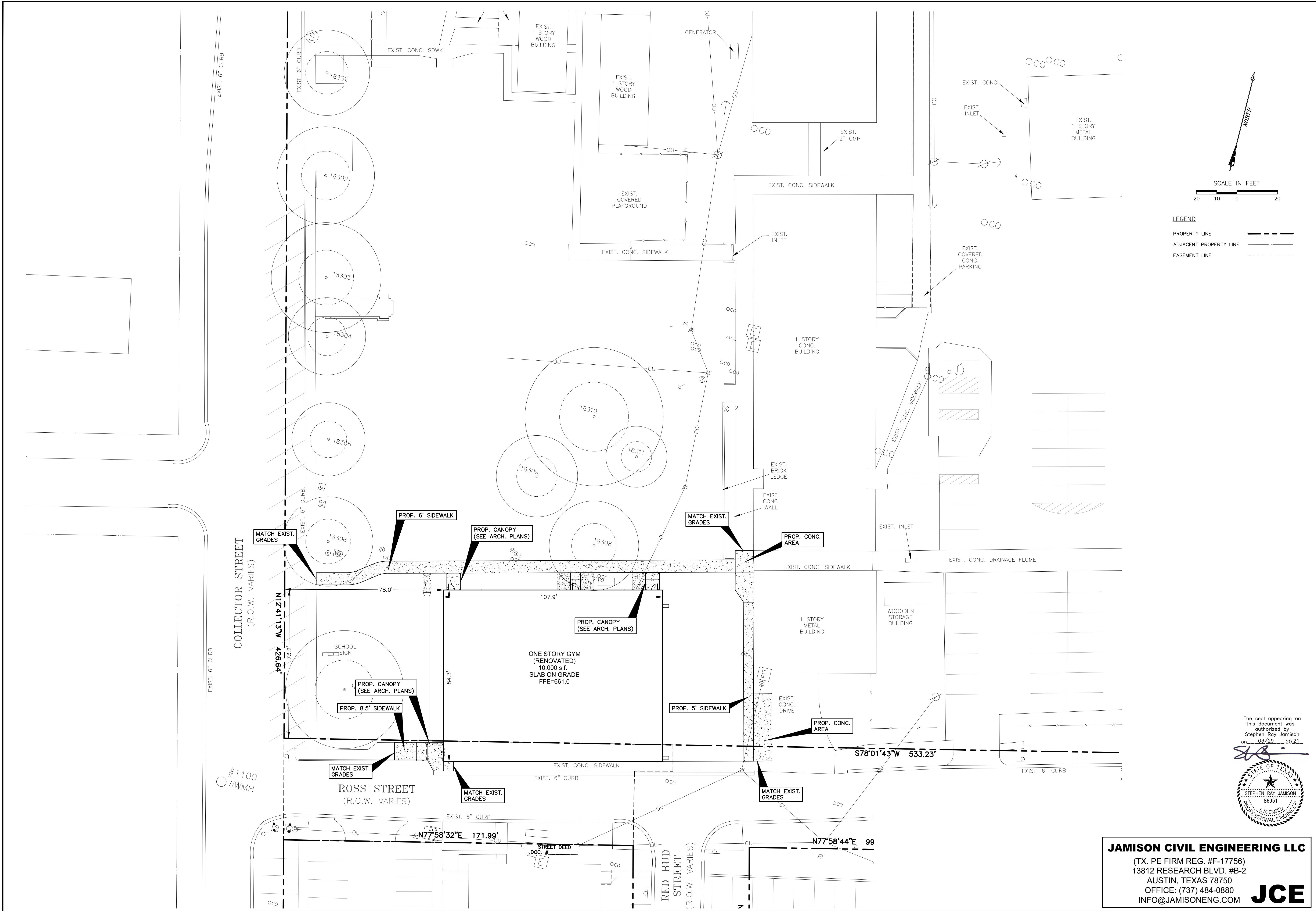
**200 COLLEGE STREET
HUTTO, TX 78634**

302 COLLEGE ST., HUTTO, TX 78634

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

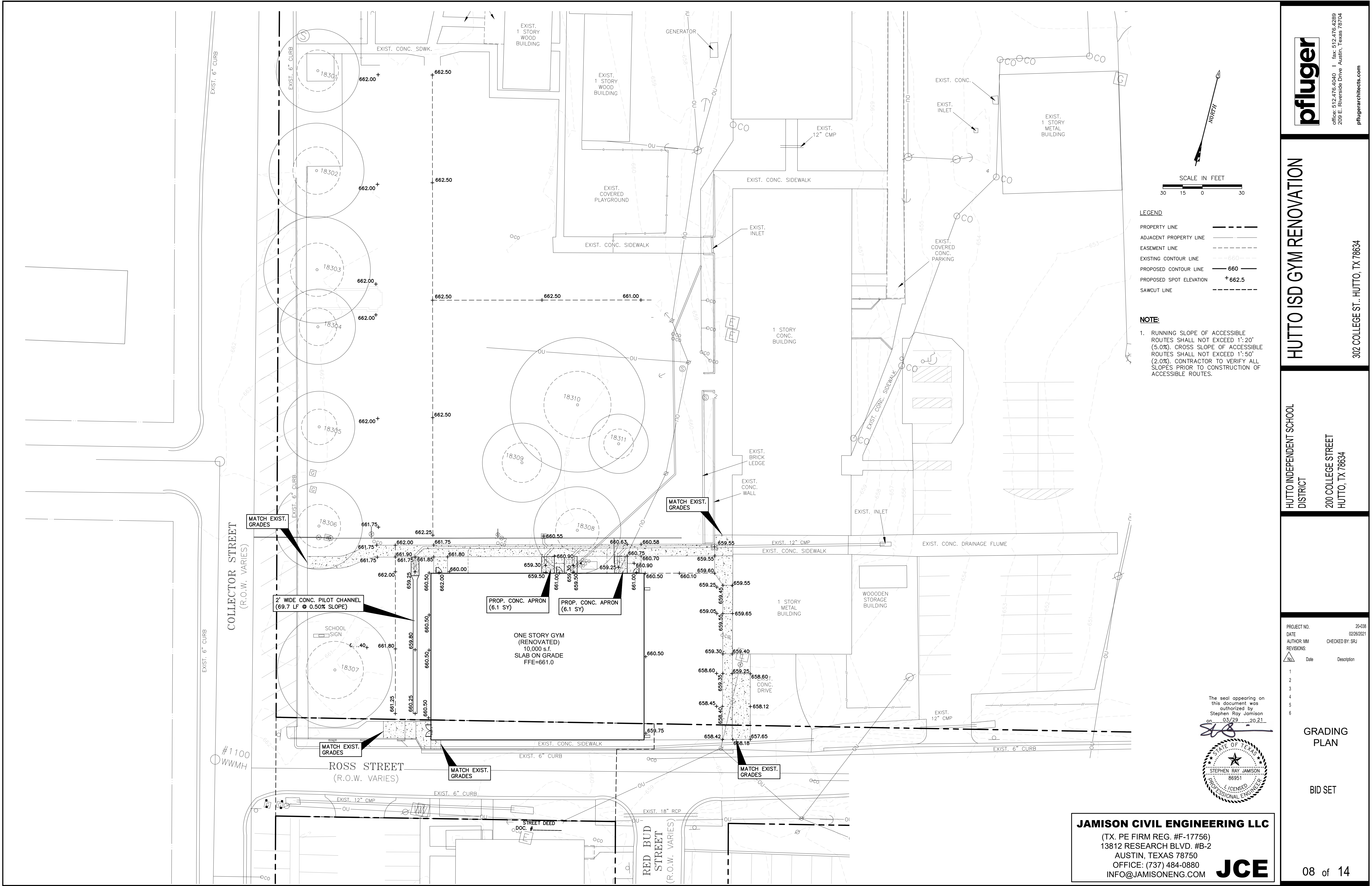
200 COLLEGE STREET
HUTTO, TX 78634

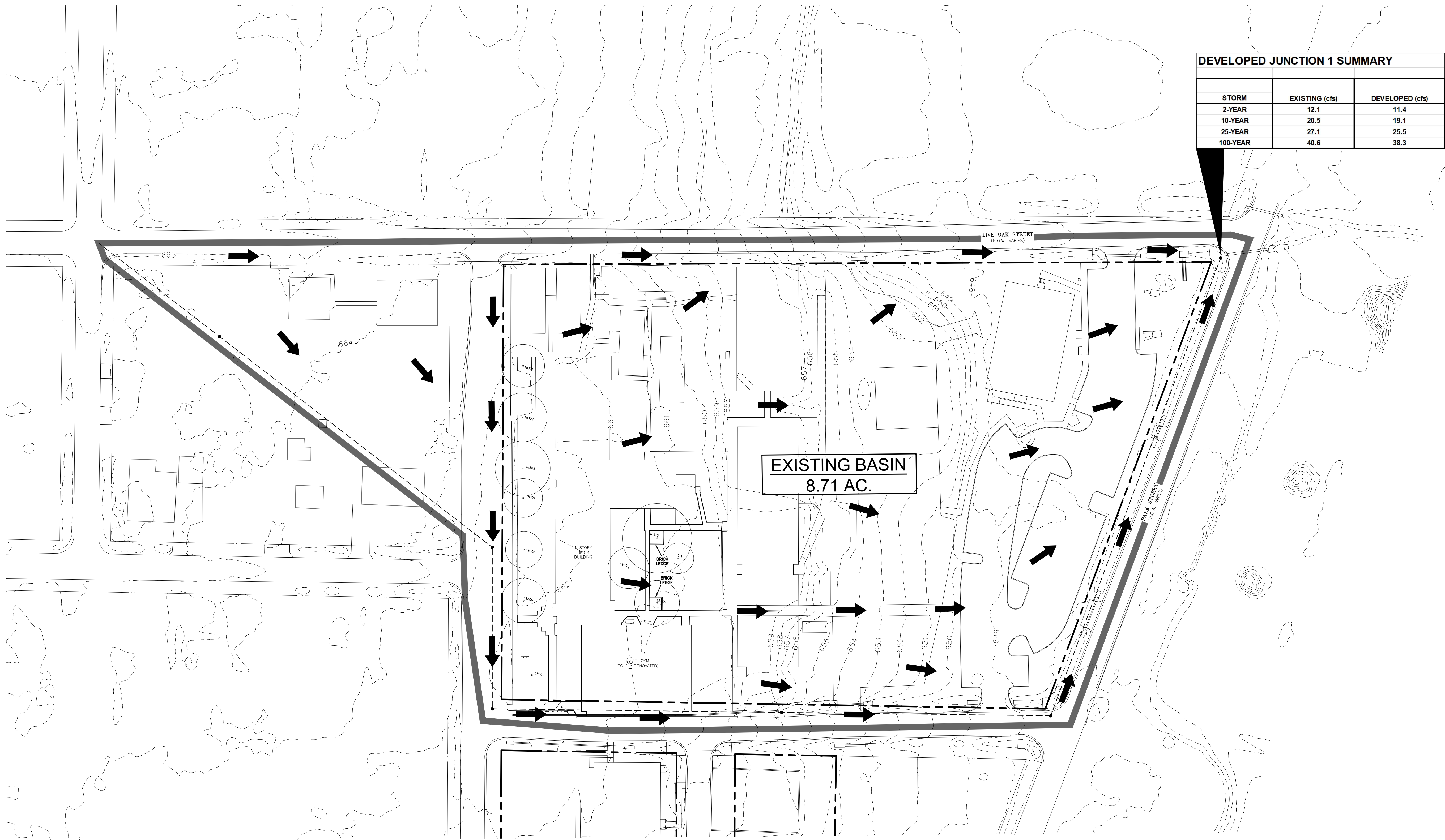
PROJECT NO. 20-038
DATE 02/26/2021
AUTHOR: MM CHECKED BY: SRJ
REVISIONS:
1
2
3
4
5
6

SITE PLAN

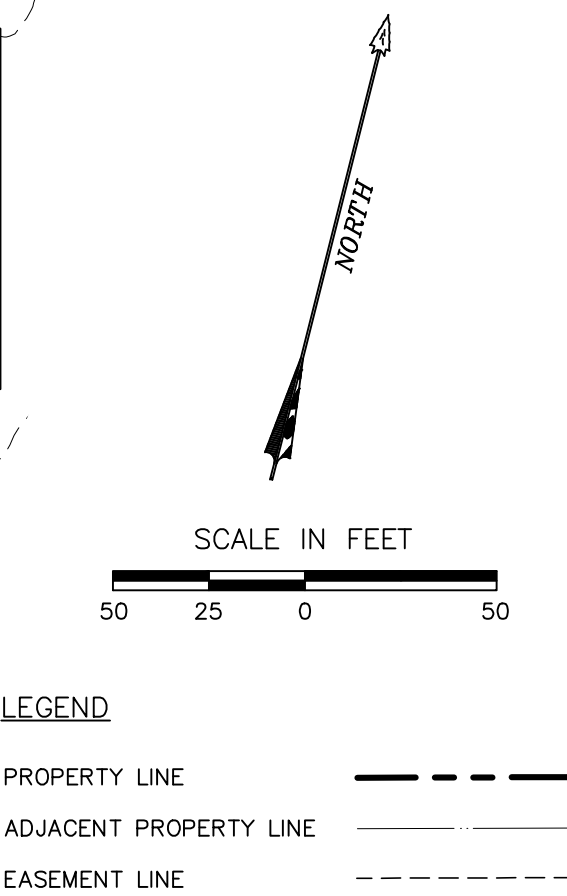
BID SET

07 of 14





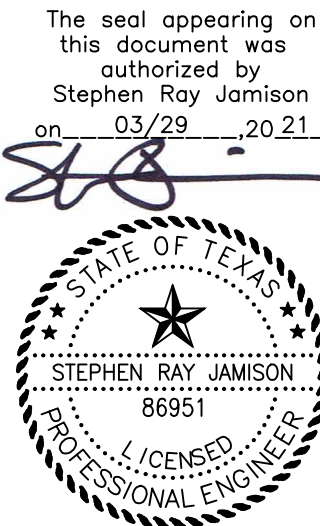
DEVELOPED JUNCTION 1 SUMMARY		
STORM	EXISTING (cfs)	DEVELOPED (cfs)
2-YEAR	12.1	11.4
10-YEAR	20.5	19.1
25-YEAR	27.1	25.5
100-YEAR	40.6	38.3



*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

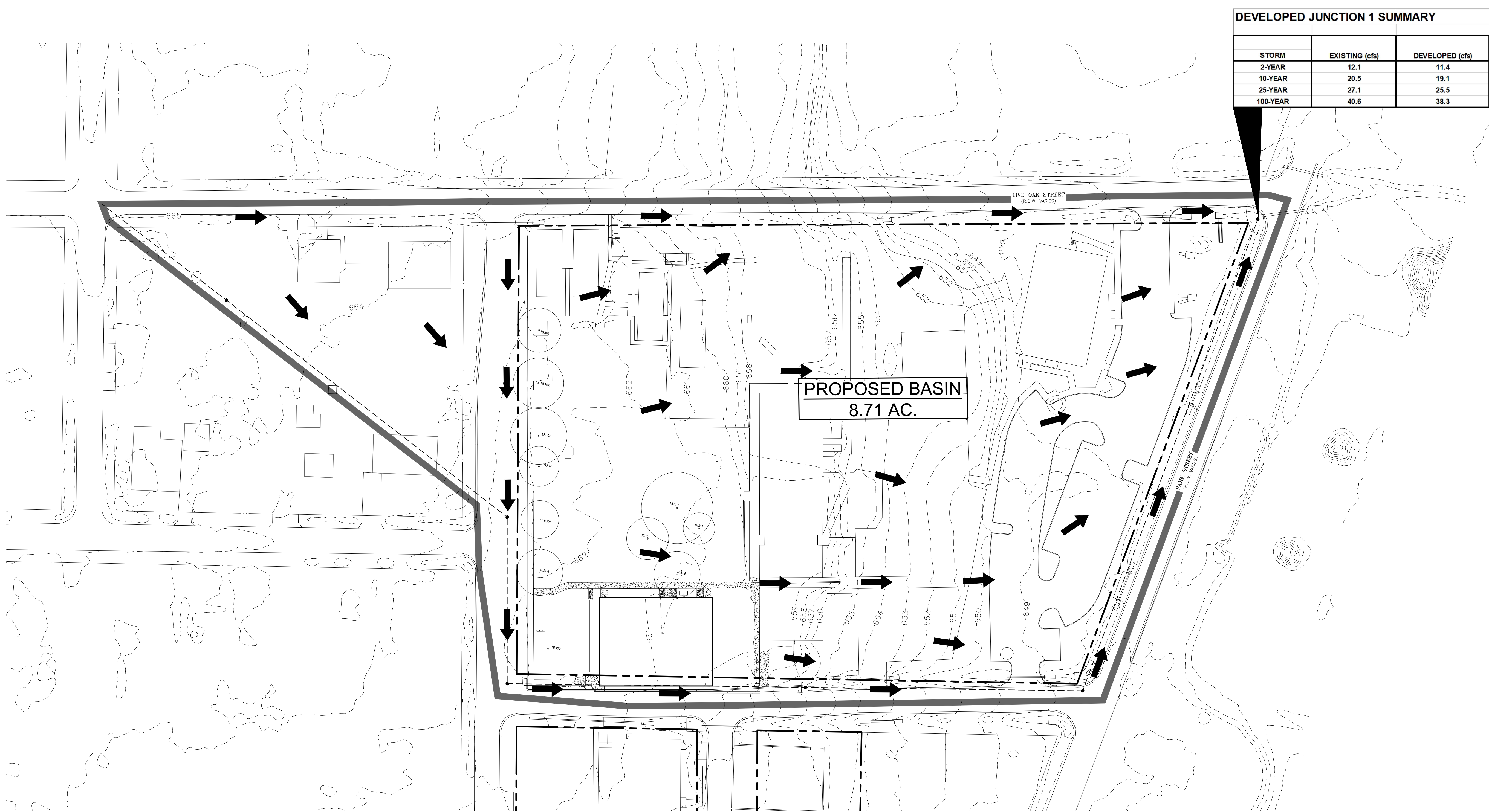


HUTTO INDEPENDENT SCHOOL
DISTRICT

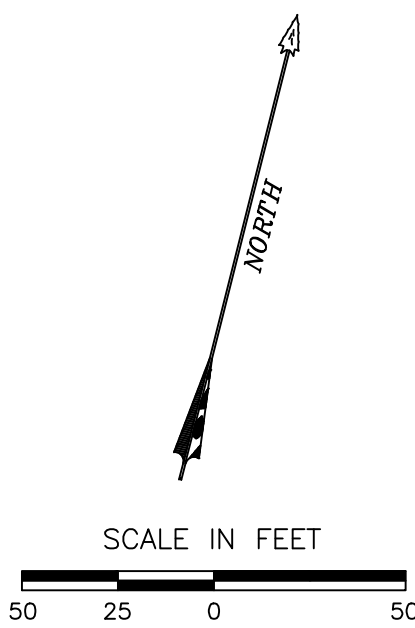
200 COLLEGE STREET
HUTTO, TX 78634

EXISTING
CONDITIONS
DRAINAGE
MAP

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



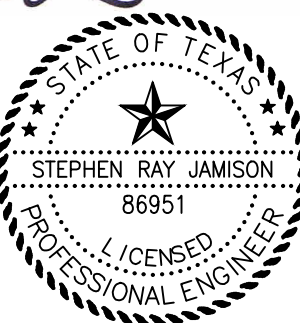
- LEGEND
- PROPERTY LINE
 - ADJACENT PROPERTY LINE
 - EASEMENT LINE

*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%	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%						

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



HUTTO INDEPENDENT SCHOOL
DISTRICT

200 COLLEGE STREET
HUTTO, TX 78634

HUTTO ISD GYM RENOVATION

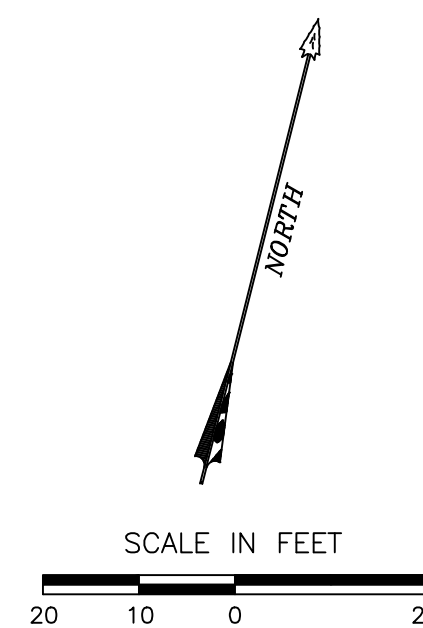
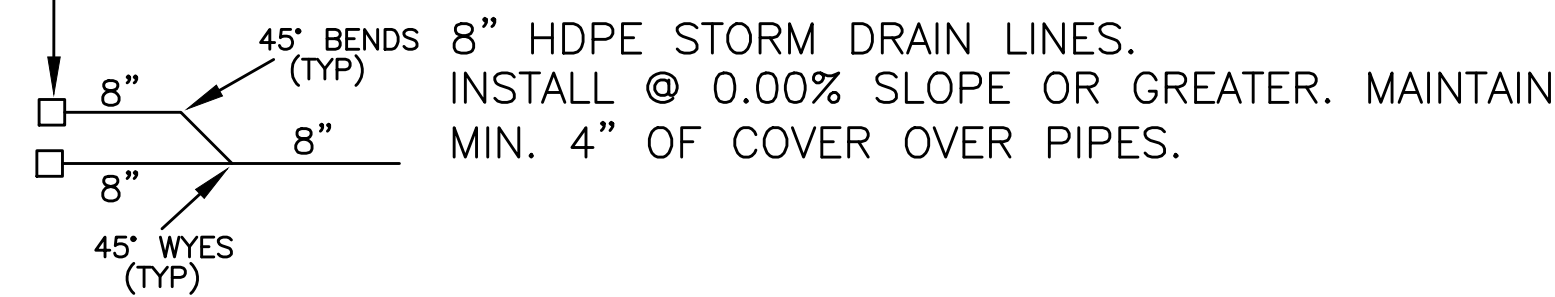
302 COLLEGE ST., HUTTO, TX 78634

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

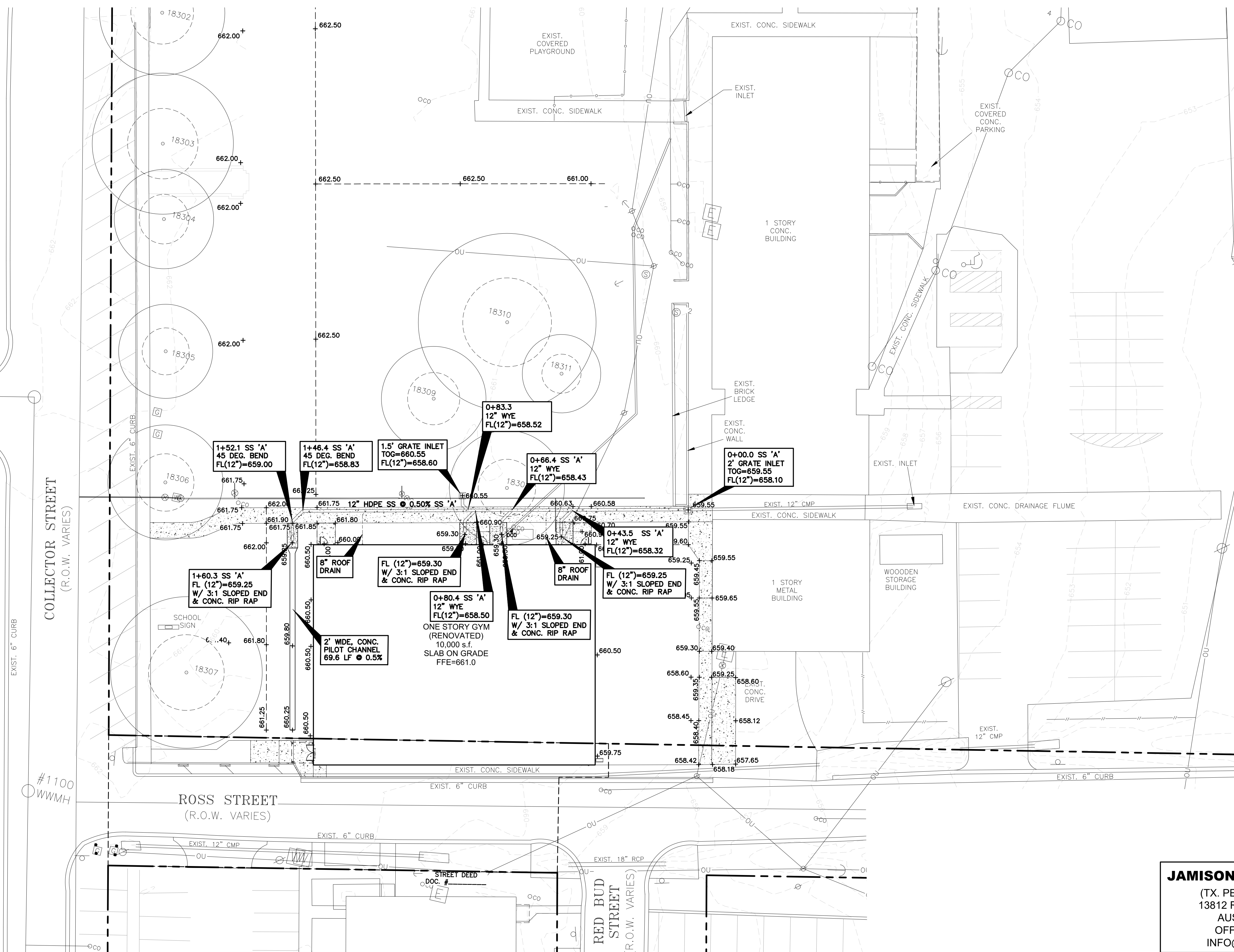
PROPOSED
CONDITIONS
DRAINAGE
MAP

BID SET

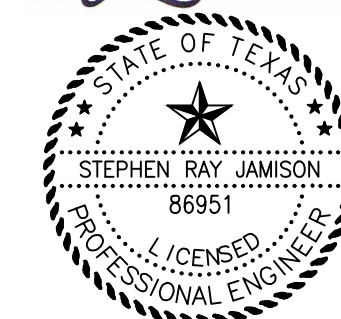
1. CONNECT EXISTING DOWNSPOUT TO 4' (PAINTED) CAST IRON DOWNSPOUT BOOT CONNECTION.
2. BOOT CONNECTION TO BE ATTACHED TO WALL.
2. CONNECT BOOT TO 8" HDPE PIPE 1' ABOVE FINISHED GRADE (MIN.)
3. ALL PIPE CONNECTIONS SHALL BE WATERTIGHT.



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



The seal appearing on
this document was
authorized by
Stephen Ray Jamison



(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

No.	Date	Description
-----	------	-------------

[illegible]

STORM SEWER LAYOUT

BID SET

11 of 14

pfluger

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

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.

SCALE IN FEET
20 10 0 20

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 1 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
2
3
4
5
6

UTILITY PLAN

BID SET

13 of 14

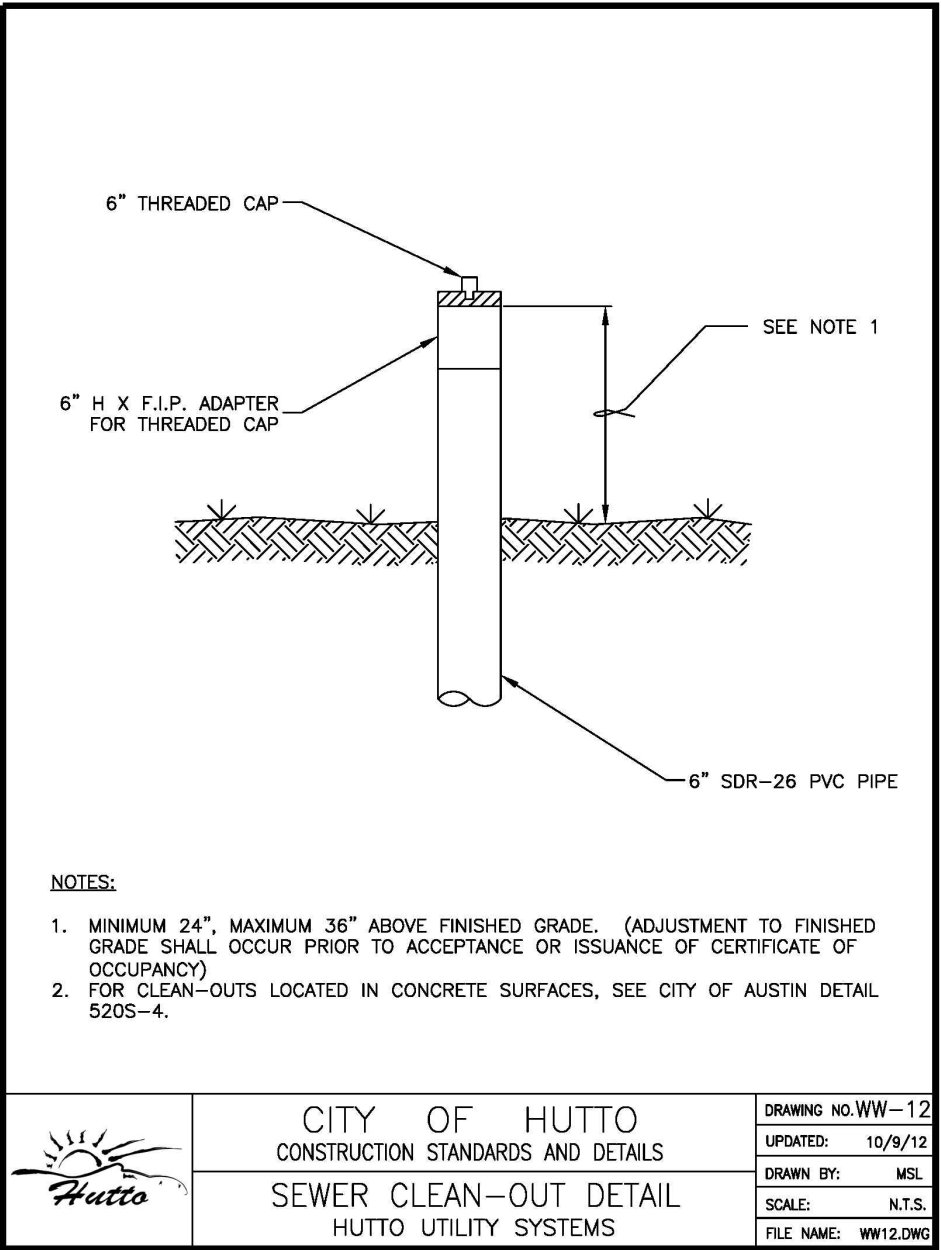
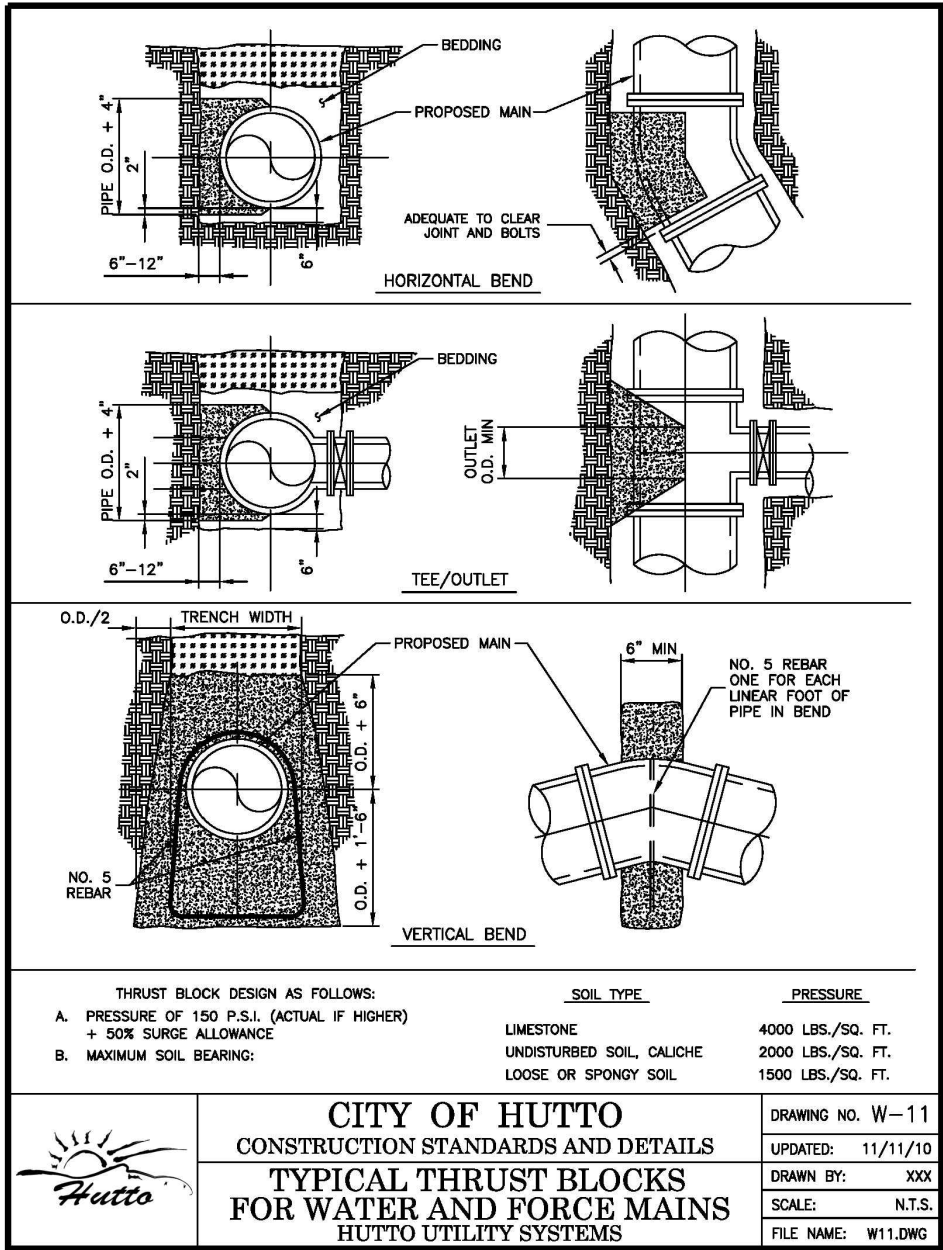
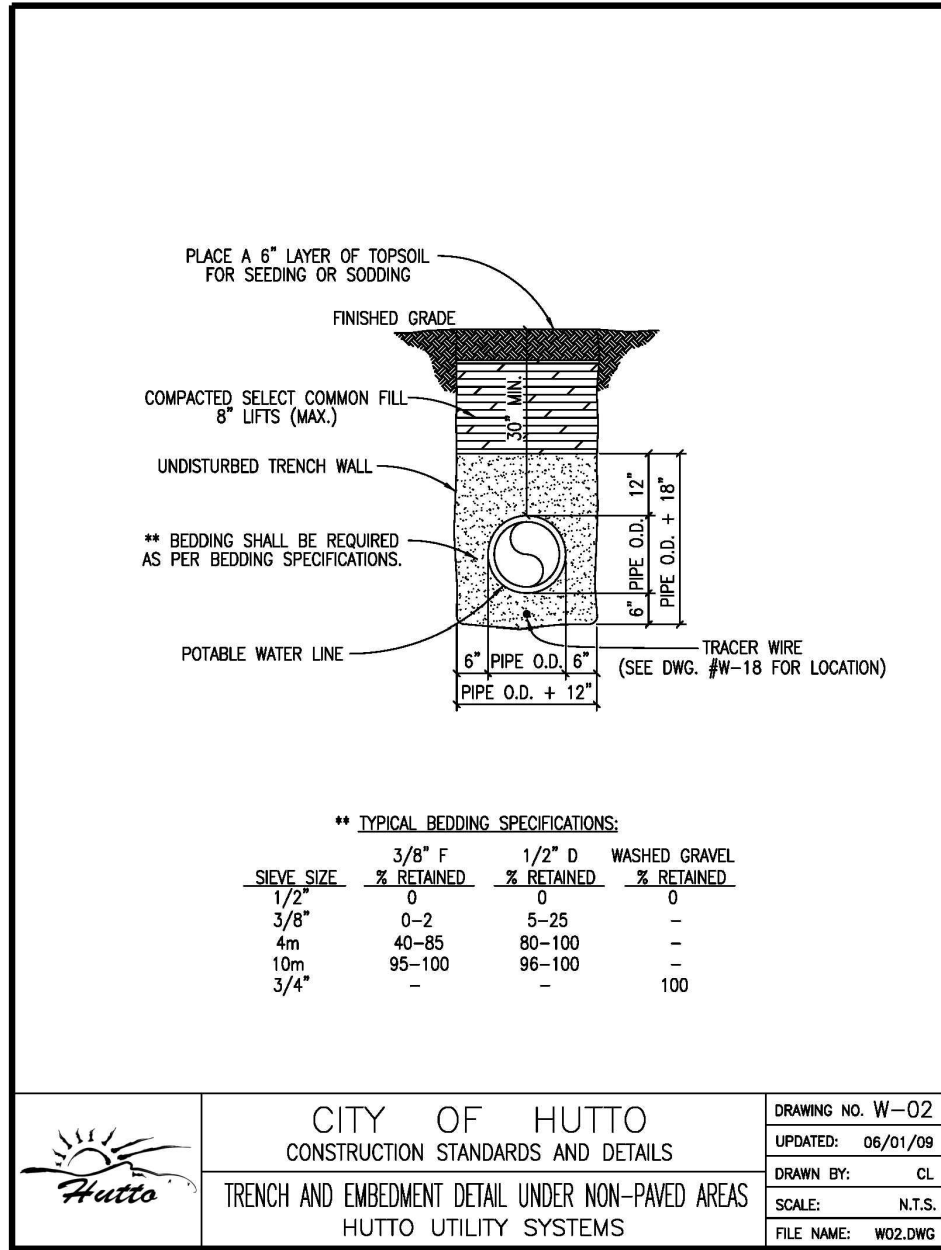
The seal appearing on this document was authorized by
Stephen Ray Jamison
on 03/29/2021



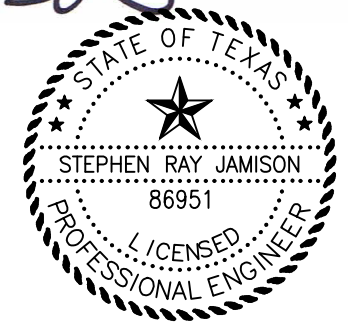
JAMISON CIVIL ENGINEERING LLC

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

JCE



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



HUTTO INDEPENDENT SCHOOL
DISTRICT

200 COLLEGE STREET
HUTTO, TX 78634

HUTTO ISD GYM RENOVATION



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

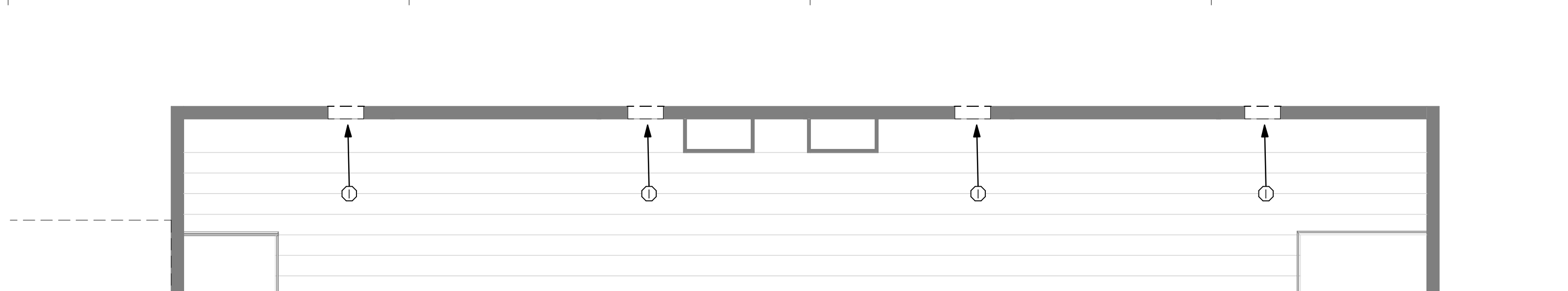
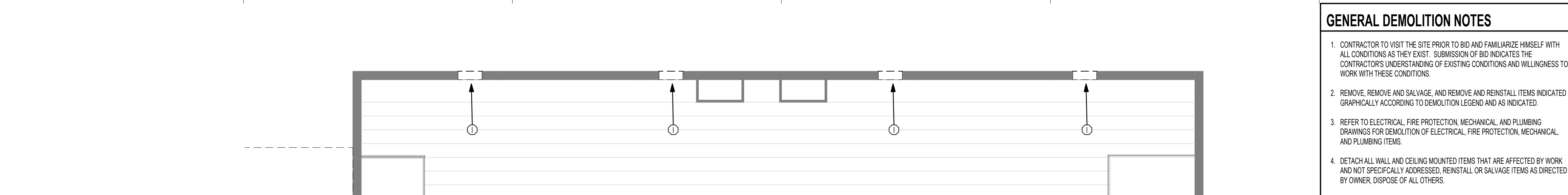
302 COLLEGE ST., HUTTO, TX 78634

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



3. CONTRACTOR TO VISIT THE SITE PRIOR TO BID AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AT THIS SITE. SUBMISSION OF BID INDICATES THE CONTRACTORS UNDERSTANDING OF EXISTING CONDITIONS AND WILLINGNESS TO WORK WITH THESE CONDITIONS.
2. REMOVE, REMOVE AND SALVAGE, AND REMOVE AND REINSTALL ITEMS INDICATED GRAYWALLY ACCORDING TO DEMOLITION LEGEND AND AS NOTED.
3. REFER TO ELECTRICAL, FIRE PROTECTION, MECHANICAL, AND PLUMBING GRAYWALLY ACCORDING TO ELECTRICAL, FIRE PROTECTION, MECHANICAL AND PLUMBING ITEMS.
4. DETACH ALL WALL AND CEILING MOUNTED ITEMS THAT ARE AFFECTED BY WORK AND NOT SPECIFICALLY ADDED, REINSTALLED OR SALVAGE ITEMS AS DIRECTED BY OWNER, DISPOSAL OF ALL OTHERS.
5. WHERE A SEAMLESS PATCH BETWEEN EXISTING AND NEW SURFACES AND ITEMS OF FINISHES ARE REQUIRED, THE CONTRACTOR SHALL PATCH BACK TO NEAREST JOINT OR CORNER AND REPLACE WITH NEW TO MATCH.
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. CONTRACTOR SHOULD QUESTION/DISCUSS PROBLEMS ARISE.
9. REFERENCE ARCHITECTURAL, MEP AND STRUCTURAL PLANS FOR ADDITIONAL INFORMATION REGARDING BUILDING DEMOLITION/RENOVATIONS.
10. IF WALLS OR SUB-STRUCTURAL ELEMENTS ARE DAMAGED DURING REMOVAL, OR DEMOLITION THE CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF WALL MATERIALS) TO ENSURE A LEVEL AND SMOOTH WALL SURFACE. MATCH ADJACENT WALL FINISHES.
11. CONTRACTOR RESPONSIBLE FOR CAPPING REMOVED PLUMBING SCHEDULES BELOW FINISH FLOOR AND PREPARING FLOOR SURFACE TO RECEIVE SCHEDULED FINISH.
12. CONTRACTOR RESPONSIBLE FOR DISCONNECTING AND CAPPING ELECTRICAL WIRING PRIOR TO DEMOLITION OF WALLS.
13. CONTRACTOR RESPONSIBLE FOR PROTECTING EXISTING SURFACES AND FINISHES DURING THE DEMOLITION/CONSTRUCTION PROCESS.
14. CONTRACTOR RESPONSIBLE FOR CEILING PATCHING AND CEILING PNEP IN AREAS AFFECTED BY DEMOLITION/CONSTRUCTION.
15. CONTRACTOR RESPONSIBLE FOR WALL PATCHING AND WALL PNEP IN AREAS AFFECTED BY DEMOLITION/CONSTRUCTION.
16. CONTRACTOR RESPONSIBLE FOR FLOOR PATCHING AND FLOOR PNEP IN AREAS AFFECTED BY DEMOLITION/CONSTRUCTION.

Text

TYPICAL STRUCTURAL ABBREVIATIONS

ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED

A		K	
ABOVE FINISH FLOOR	AFF	KIPS (1000 LBS)	K
ADDITIONAL	ADONL	KIP PER LINEAR FOOT	KLF
ADJACENT	ADJ	KIP PER SQUARE FOOT	KSF
AGGREGATE	AGGR.		
ALTERNATE	ALT.	L	
ANCHOR BOLT	A.B.	LIGHTWEIGHT CONCRETE	LWT. CONC.
AND	&	LIVE LOAD	LL
ANGLE	L	LONGITUDINAL	LONG.
APPROVED	APPD.	LONG LEG HORIZONTAL	LLH
APPROXIMATE	APPROX.	LONG LEG VERTICAL	LLV
ARCHITECT	ARCH.	LOW POINT	LP.
ARCHITECTURAL	ARCHL.		
ARCH'L. FINISH SURFACE	A.F.S.	M	
AT	@	MANUFACTURE(R)	MFR.
AIR CONDITIONER	A/C	MASONRY OPENING	M.O.
AIR HANDLING UNIT	AHU	MATERIAL	MAT.
		MAXIMUM	MAX.
B		MECHANICAL	MECH.
BACK FACE	B.F.	MEZZANINE	MEZZ.
BACK TO BACK	B. TO B.	MIDDLE	MID.
BASEMENT	BSMT.	MINIMUM	MIN.
BEAM	BM.	MISCELLANEOUS	MISC.
BEARING	BRG.	MOMENT	M
BELOW FINISH FLOOR	BFF	MOMENT CONNECTION(S)	M.C. OR
BETWEEN	BETWN.		
BEVEL (ED)	BEVL (D)	N	
BLOCK	BLK.	NEAR FACE	N.F.
BLOCKING	BLKG.	NOMINAL	NOM.
BLOCK-OUT	B.O.	NON-SHRINK	N.S.
BOTTOM	BOT.	NOT IN CONTRACT	N.I.C.
BRACKET	BRKT.	NOT TO SCALE	N.T.S.
BRICK LEDGE ELEVATION	B.L.E.	NUMBER	NO. OR #
BRIDGING	BRDG.		
BUILDING	BUILD.	O	
BUILDING LINE	B.L.	ON CENTER OPENING(S)	O.C. OPNG(S).
		OPPOSITE	OPP.
C		OPOSITE HAND	O.H.
CANTILEVER	CANT.	OUTSIDE FACE	O.F.
CAST IRON	C.I.	OUTSIDE DIAMETER	OSTG.
CAST-IN-PLACE	C.I.P.		
CEILING	CLG.	P	
CENTER LINE	C.L.	PAN	P
CENTER OF GRAVITY	C.G.	PARALLEL	PAR.
CENTER TO CENTER	C. TO C.	PARTITION	PARTN.
CHANNEL	C.	PENETRATION	PEN.
CLEAR OR CLEARANCE	CLR.	PERPENDICULAR	PERP.
COLUMN	COL.	PIECE	PC.
COMPRESSION	COL. OR COMP.	PLATE	PL.
CONCRETE	CONC.	POINT	PT.
CONCRETE MASONRY UNIT	CMU	POUNDS PER SQUARE FOOT	P.S.F.
CONNECTION (S)	CONN(S).	POUNDS PER SQUARE INCH	P.S.I.
CONTINUOUS	CONT.	PRECAST CONCRETE	PCG
CONTRACTOR	CONTR.	PRE-ENGINEERED	
CONTROL JOINT	CT.J.	BUILDING MANUFACTURER	PEBM
CONSTRUCTION	CONST.	PRE-ENGINEERED	
CONSTRUCTION JOINT	C.J.	METAL BUILDING	PEMB
CORNER	COR.	PREFABRICATED	PREFAB.
COVER PLATE	COV. PL.	PRELIMINARY	PRELIM.
		PROJECTION	PROJ.
D		R	
DETAIL	DET.	RADIUS	R
DEAD LOAD	DL	REINFORCED CONCRETE PIPE	RCP
DEFORMED BAR ANCHOR	D.B.A.	REINFORCE(ING) (ED) (MENT)	REINF.
DIAGONAL	DIAG.	REMAINDER	REM. OR R
DIAMETER	DIA.	REQUIRE	REQ.
DIMENSION(S)	DIM(S).	RETENTION SYSTEM	RET. SYS.
DOWEL	DWL(S).	REQUIRED	REQ'D.
		RISER	RIS.
E		ROOF	RF.
EACH	EA.	ROOF DRAIN	R.D.
EACH FACE	E.F.	ROOF OPENING	RF. OPNG.
EACH WAY	E.W.	ROOM	RM.
EDGE ANGLE OFFSET	E.A.O.	ROUND	RND.
ELECTRICAL	ELEC.		
ELEVATION	EL.	S	
ELEVATOR	ELEV.	SCHEDULE(D)	SCHED.
ENGINEER	ENGR.	SECTION	SECT.
ENTRANCE	ENT.	SHEAR	V
EQUAL	EQ.	SHEET	SHT.
EQUIPMENT	EQUIP.	SIDEWALK	SW.
EXPANSION	EXP.	SIMILAR	SIM.
EXPANSION JOINT	E.J.	SPACE	SPA.
EXISTING	EXIST.	SPECIFICATION(S)	SPEC(S)
EXTERIOR	EXT.	SPECIFIED	SPEC'D.
EXTRA STRONG	X-STR.	SQUARE FOOT (FEET)	S.F.
		STANDARD	STD.
F		STEEL	STL.
FACE TO FACE	F. TO F.	STIFFENER	STIFF.
FABRICATOR	FABR.	STRAIGHT	STRF.
FAR SIDE	F.S.	STIRRUPS	STIR.
FIELD VERIFY	(F.V.)	STRUCTURE	STRUCT.
FINISHED	FIN.	STRUCTURAL	STRUCT'L.
FINISHED FLOOR	FIN. FL.	SYMMETRICAL	SYM.
FIREPROOF(ING)	FP.	SUBCONTRACTOR	SUBCONTR.
FLANGE	FLG.	SUPPORT(S)	SUPT(S).
FLOOR	FL.		
FLOOR DRAIN	F.D.	T	
FOUNDATION	FDN.	TAPERED BEAM	T.B.
		TEMPERATURE	TEMP.
G		TENSION	T
GAGE OR GAUGE	GA.	TERRAZZO	TERR.
GALVANIZED	GALV.	THICK	THK.
GALVANIZED IRON	G.I.	TONGUE & GROOVE	T & G
GALVANIZED STEEL	G.S.	TOP AND BOTTOM	T & B
GENERAL CONTRACTOR	G.C.	TOP OF	T.O.
		TOP OF BEAM	T.O.B.
GOVERNMENT	GEN. CONTR.	TOP OF FOOTING	T.O.F.
GRADE	GR.	TOP OF PIER	T.O.P.
GRADE BEAM	GR. BM.	TOP OF PIER CAP	T.O.P.C.
		TOP OF RETAINING WALL	T.R.W.
H		TOP OF STEEL	T.O.S.
HEADED STUDS	H.S.	TOP OF STRUCTURAL CONCRETE	T.O.S.C.
HEIGHT	HT.	TOP OF WALL	T.O.W.
HIGH POINT	H.P.	TREAD	TR.
HOLLOW STRUCTURAL SHAPE	HSS	TUBE STEEL	TS
HORIZONTAL	HORIZ.	TYPICAL	TYP.
HOOK	HK.		
I		U	
INFORMATION	INFO.	UNLESS NOTED OTHERWISE	U.N.O.
INSIDE DIAMETER	I.D.		
INSIDE FACE	I.F.	V	
INTERIOR	INT.	VERTICAL	VERT.
INTERMEDIATE	INTERM.		
J		W	
JOINT(S)	JT(S).	WATERSTOP	WS.
JOIST(S)	JST(S).	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 SPICE - 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.

A.F.S. 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

TYPICAL PLAN NOTES:

1. 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.

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

2. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF FLOOR DROPS, FLOOR SLOPES, CURBS, MISCELLANEOUS ELEVATIONS, DETAILS AND DIMENSIONS NOT SHOWN ON PLAN.

3. SEE ARCH'L. DWGS. FOR SIZES & LOCATIONS OF ROOF OPENINGS.

4. NOTE TO CONTRACTOR: FIELD VERIFY ALL EXISTING DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION OF MATERIALS AND CONSTRUCTION.

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

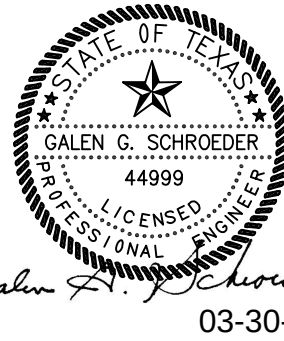
DATUM
ENGINEERS
www.datumengineers.com | Co. Reg. No. F-2019
Dallas, Texas Austin, Texas San Antonio, Texas
214.528.0174 512.689.9400 214.694.2860
Datum Project No. 20186.01

HUTTO ISD GYM RENOVATION

200 COLLEGE STREET HUTTO, TX 78634

HUTTO ISD

200 COLLEGE STREET
HUTTO, TEXAS 78634

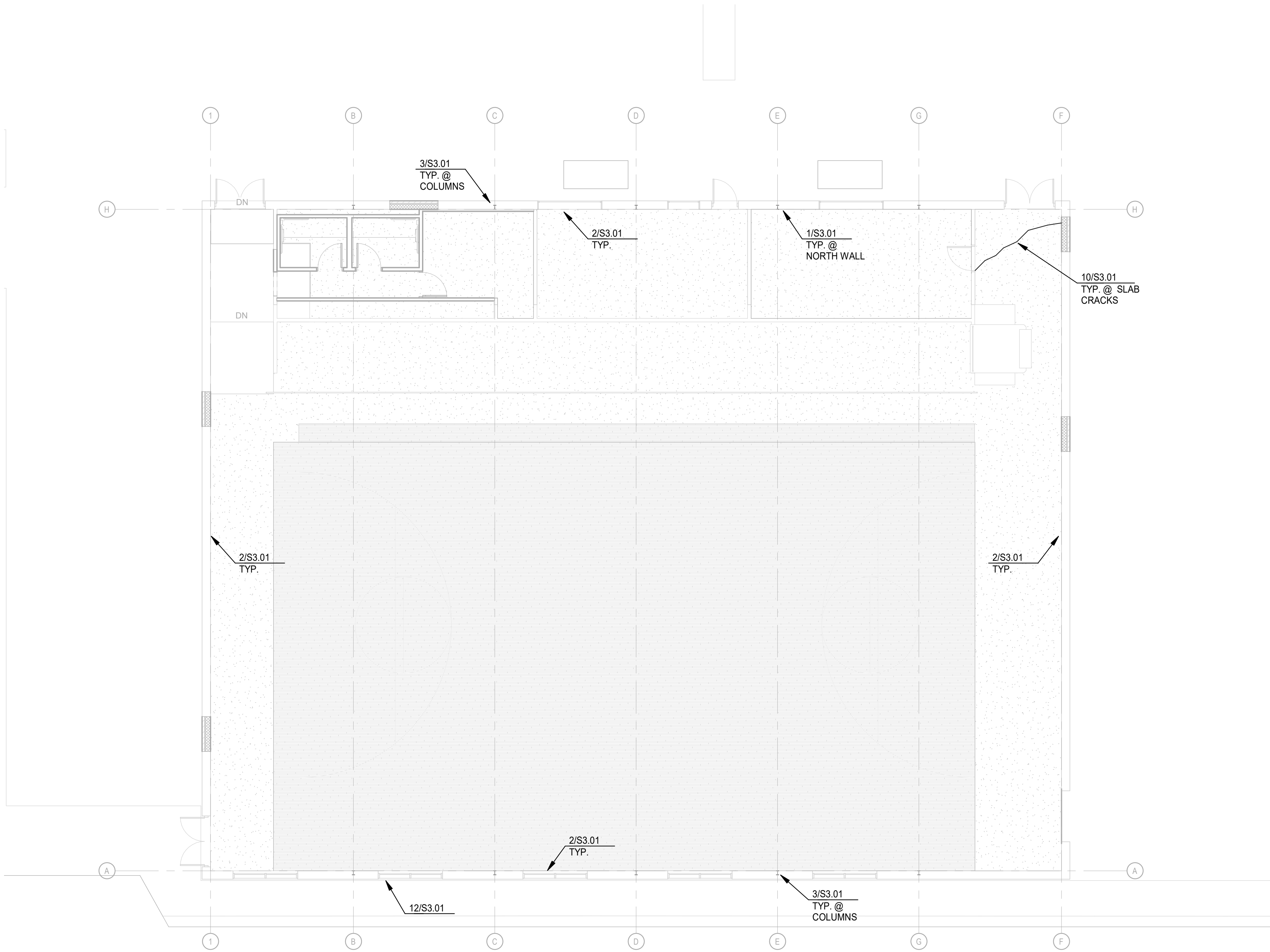


3/30/21

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

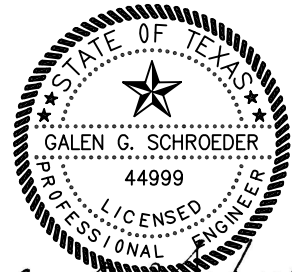
REVISIONS:
Date Description

BID SET
\$1.01
GENERAL NOTES,
ABBREVIATIONS AND
SYMBOLS



1 GYM FLOOR PLAN

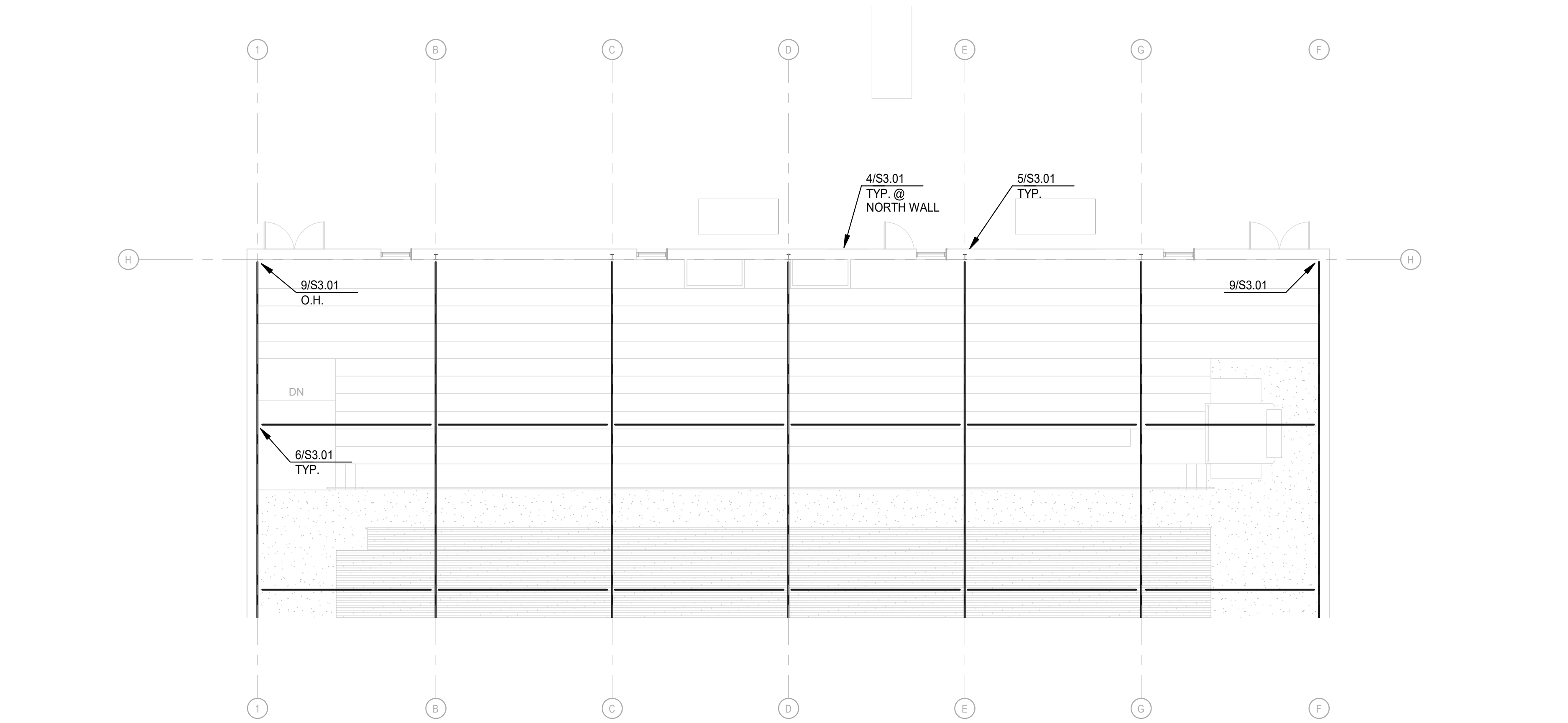
1/8" = 1'-0"



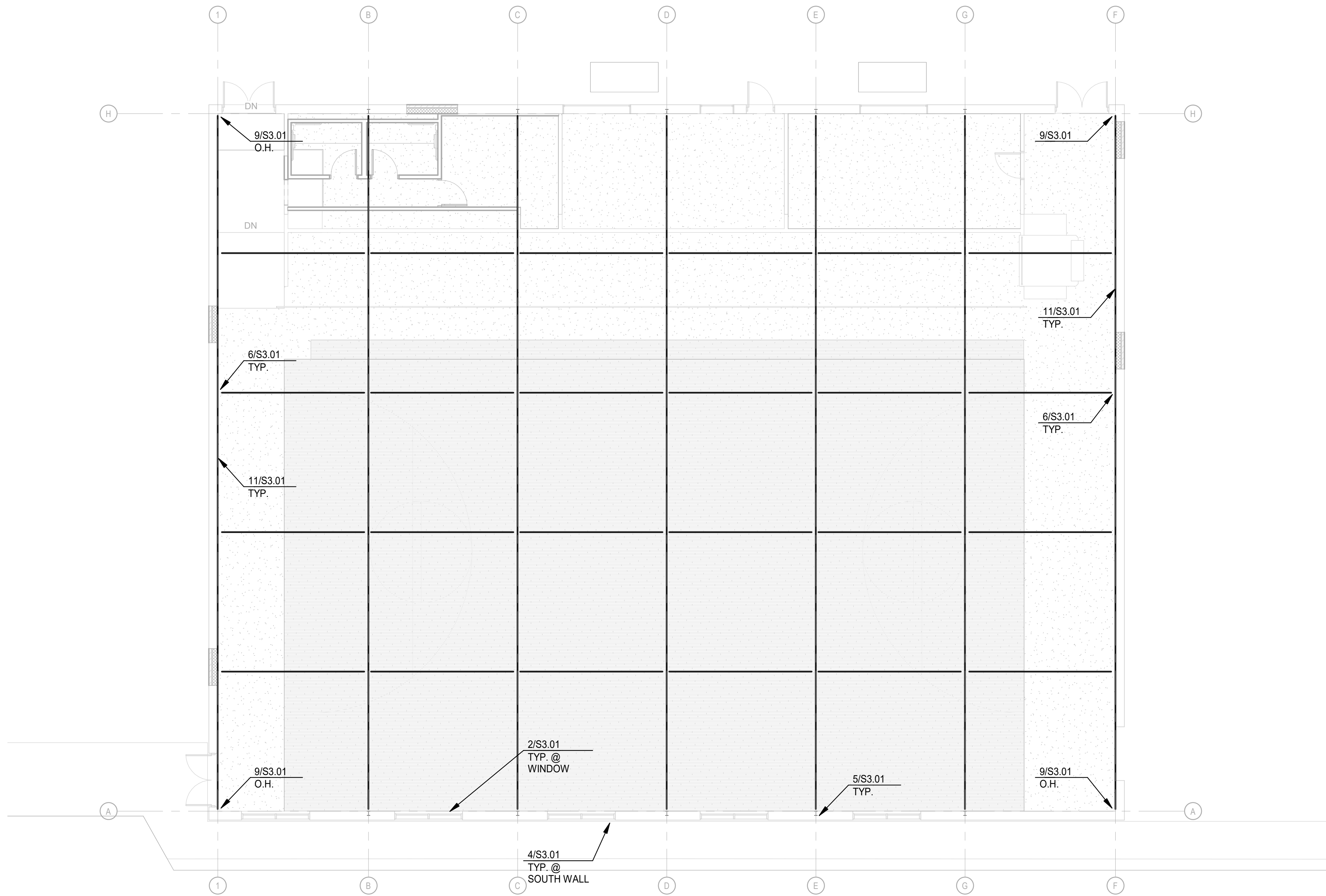
Galen C. Schroeder, P.E.
03-30-21

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

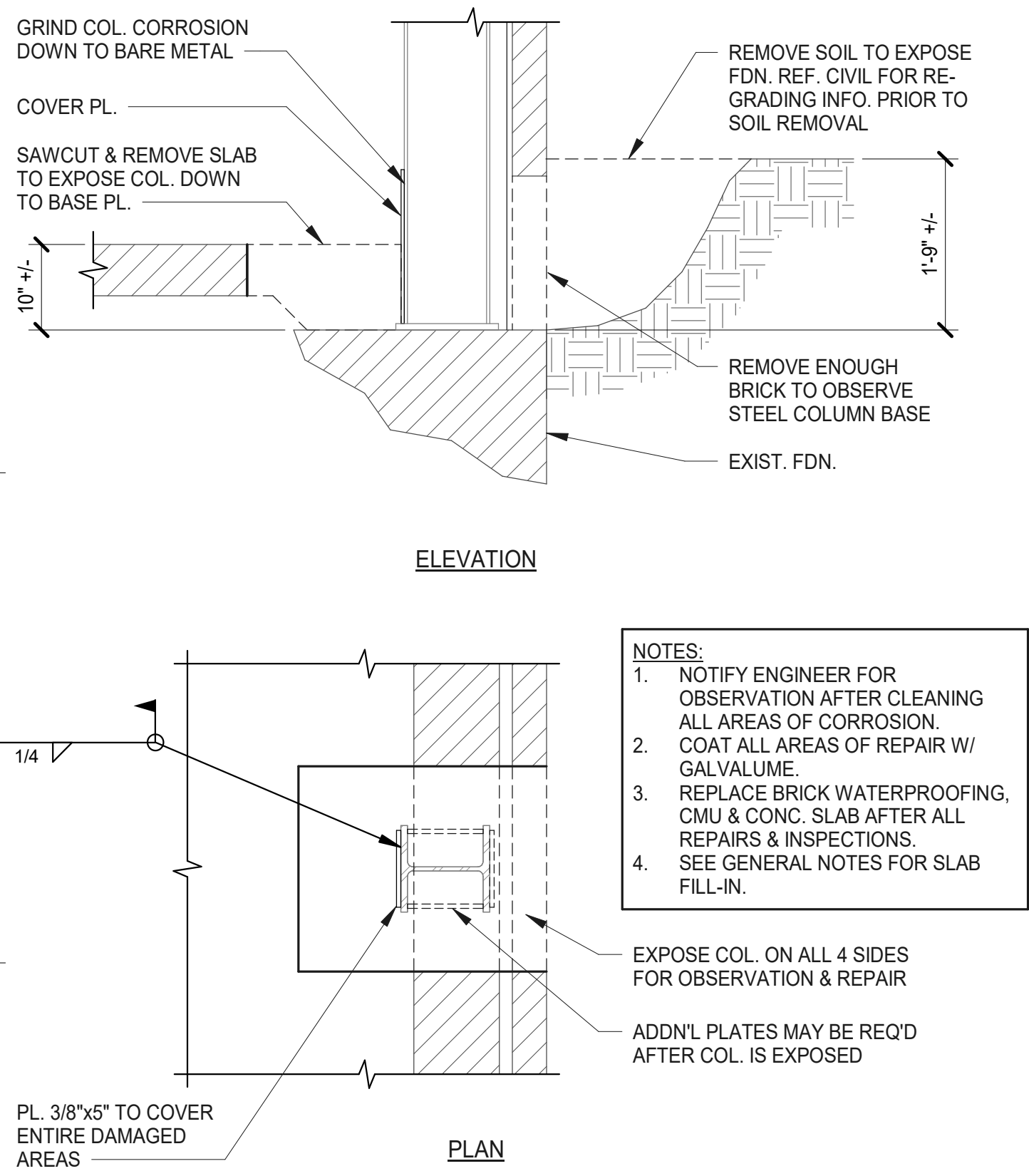
Date	Description



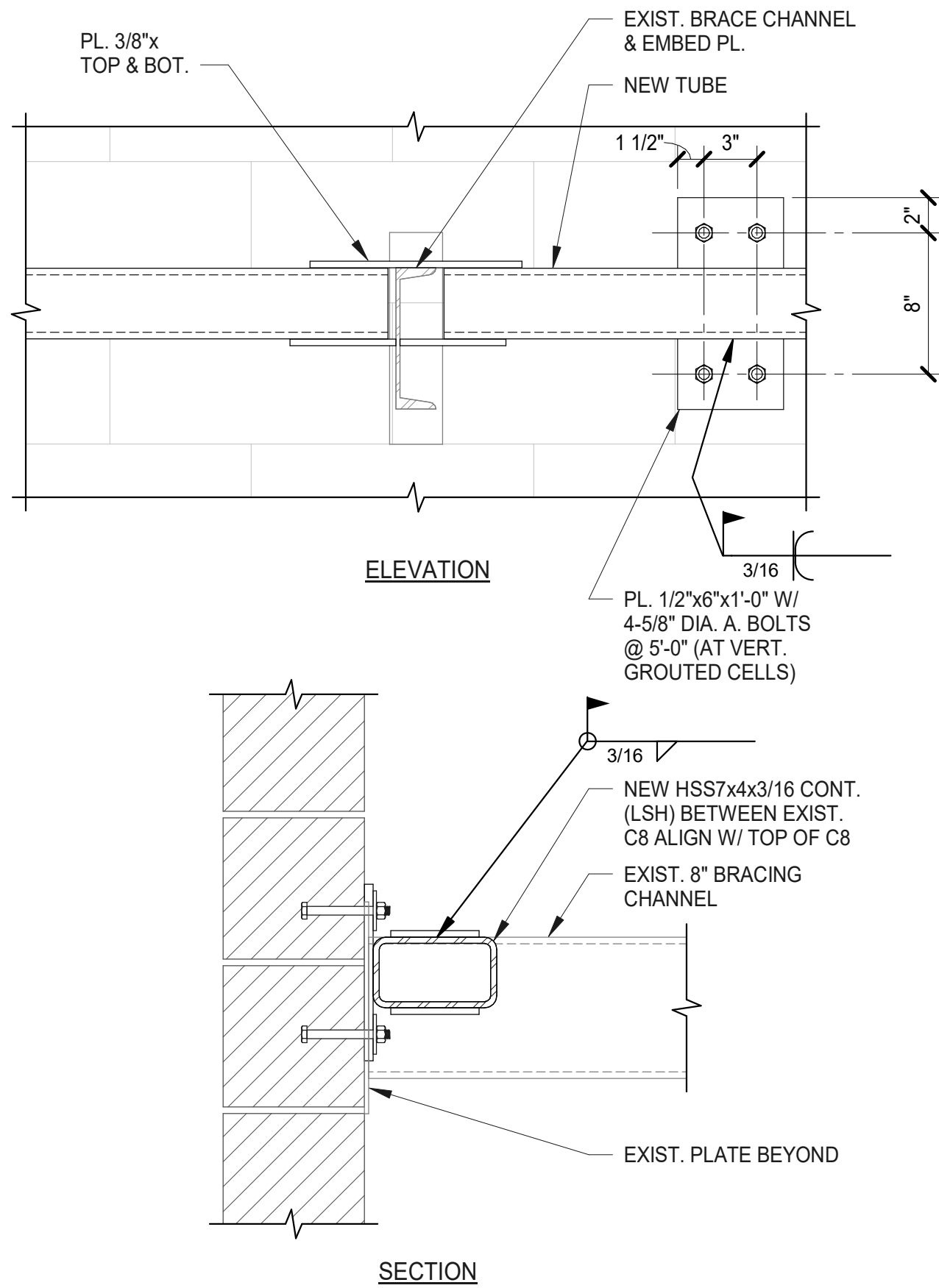
2 GYM BLEACHER PLAN
1/8" = 1'-0"



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



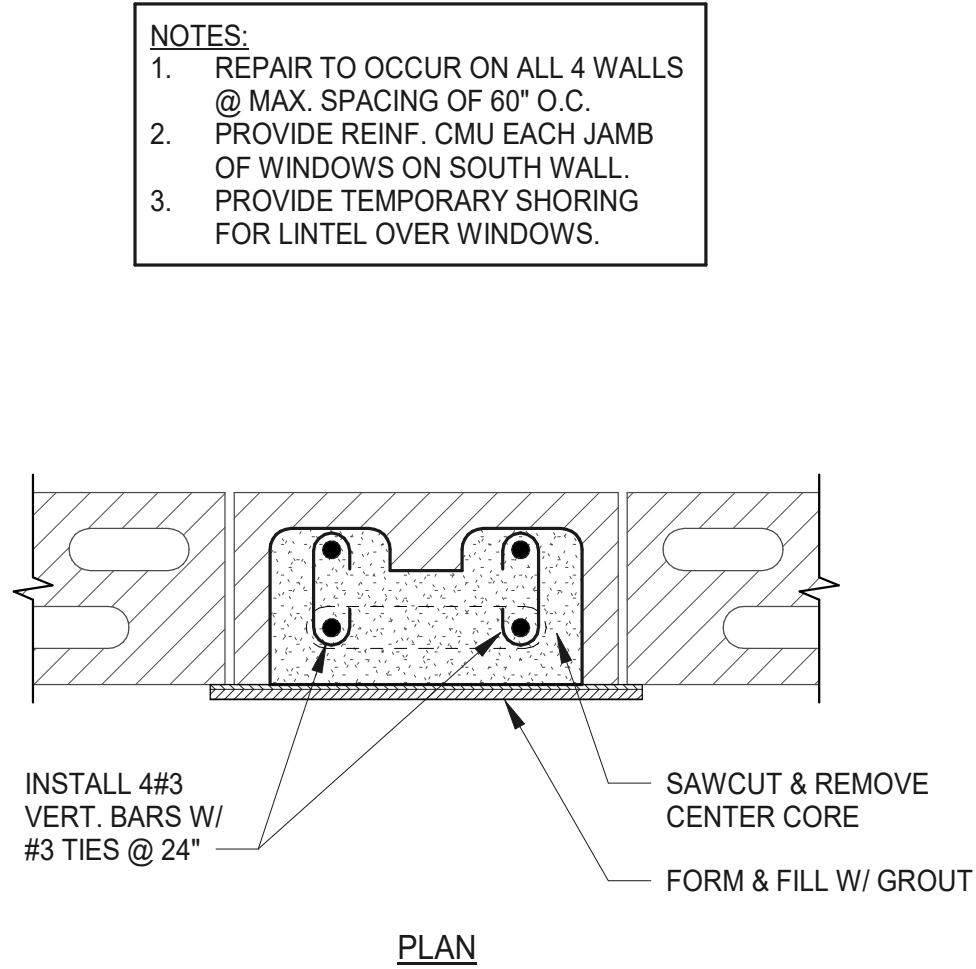
1 NORTH COLUMN REPAIR (5 TIMES)



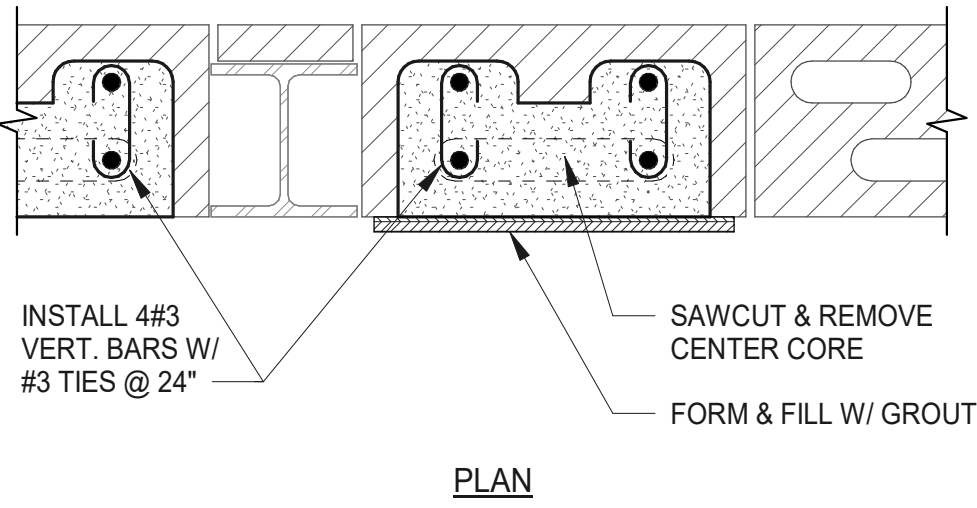
6 TOP OF EAST & WEST WALL BRACING



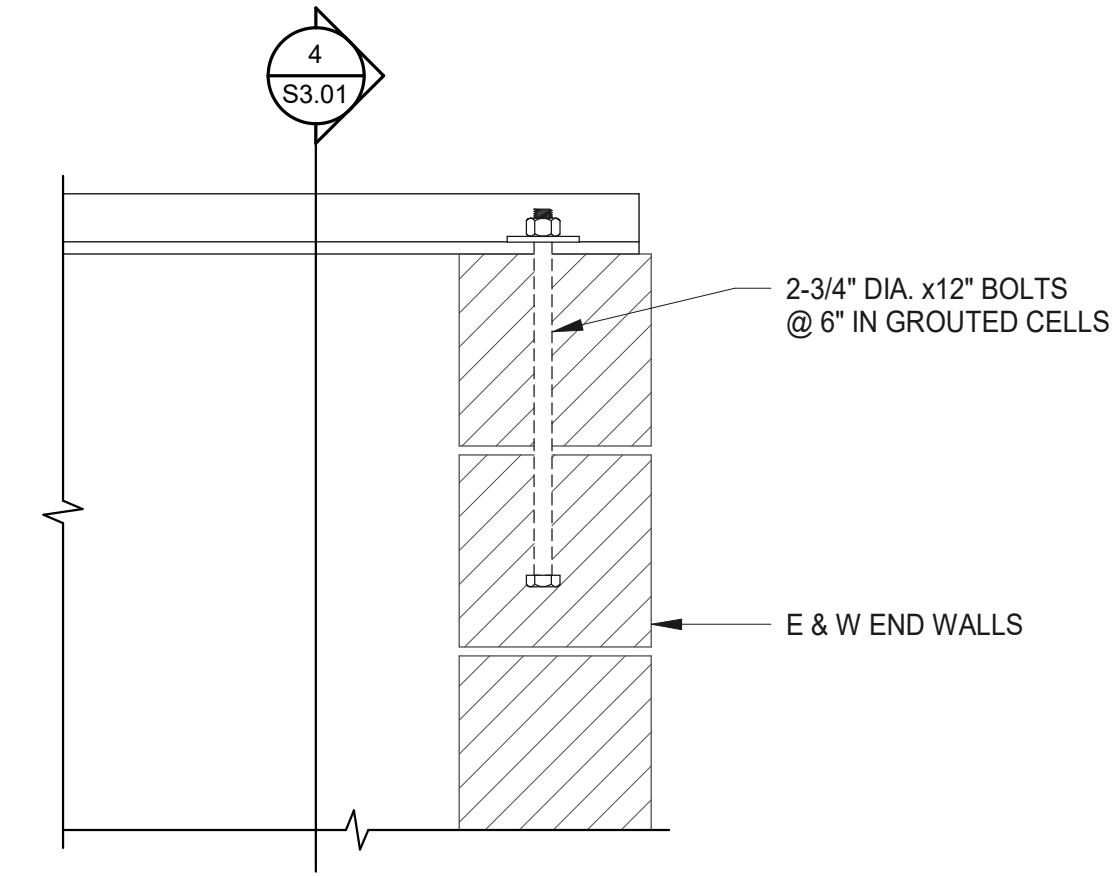
1" = 1'-0" 10



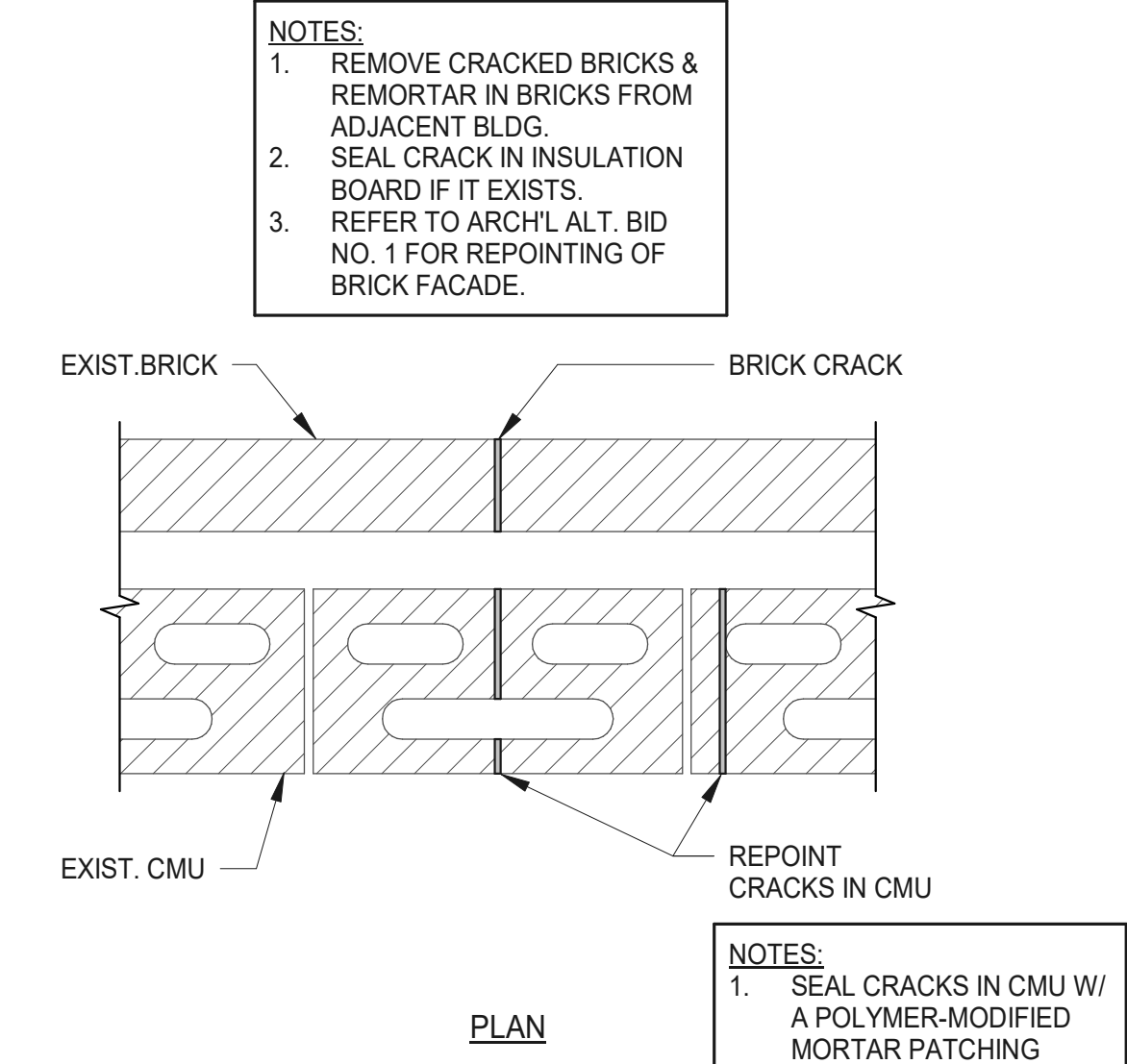
2 REINF. CMU WALLS



3 REINF. CMU WALLS AT COLUMNS



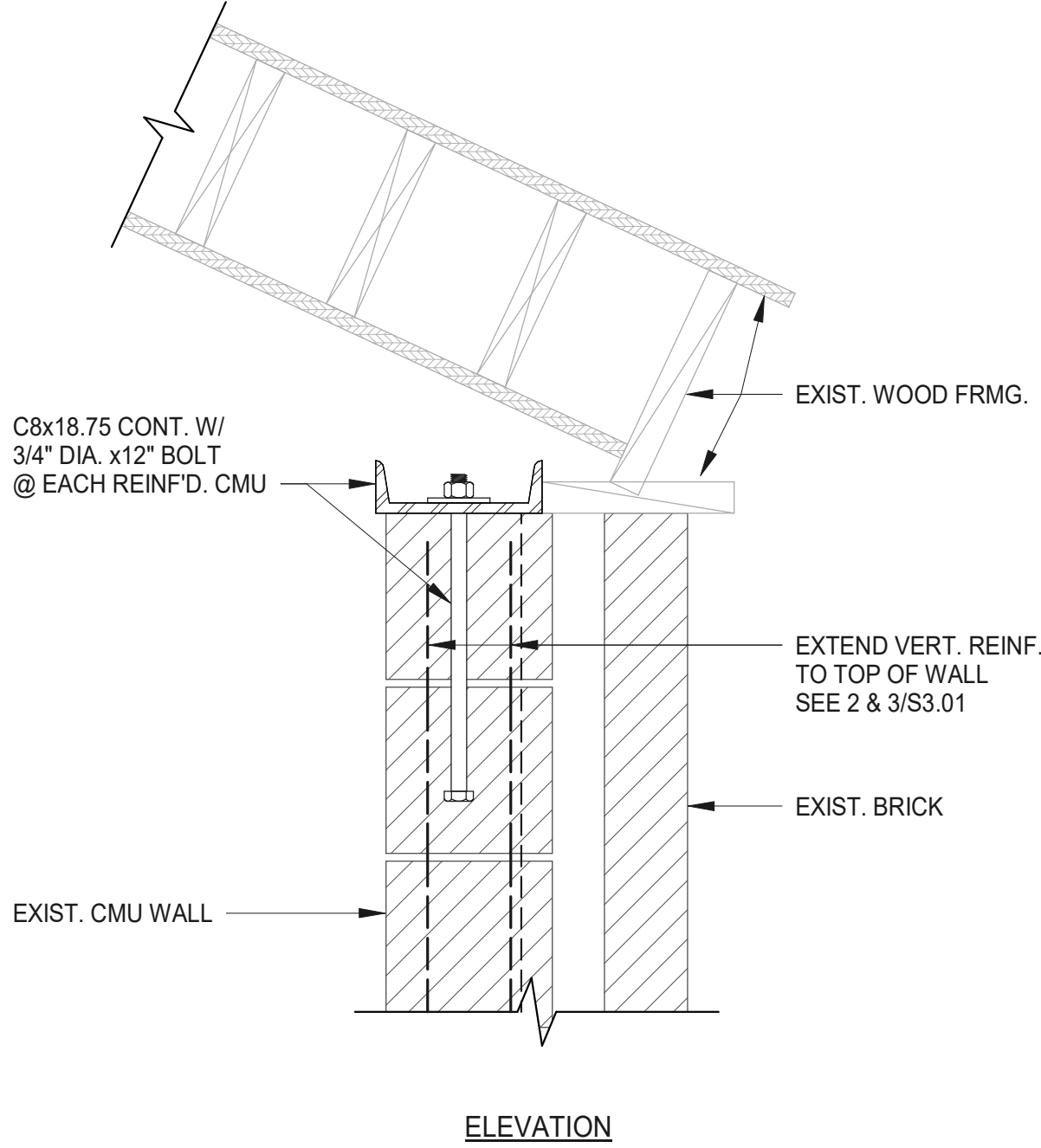
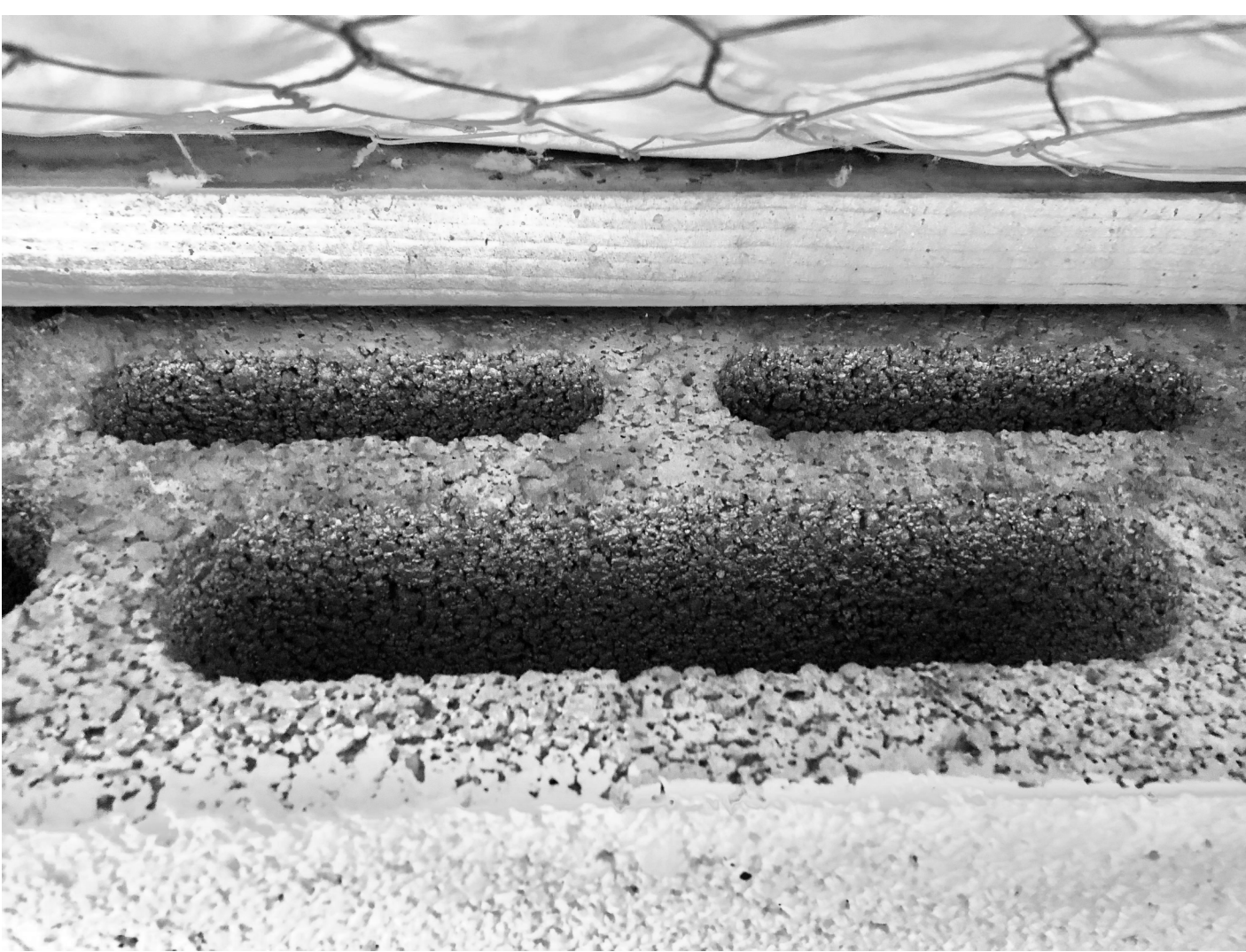
9 CHANNEL TERMINATION AT TOP OF WALLS



11 SEALING CRACKS IN CMU & BRICK



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

03-30-21

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
A.F.F.	ACCESS FLOOR	EXT.	EXTERIOR	MFD	METAL FLOOR DECK	TK, STP.	TACK STRIP
A.P.	ACCESS PANEL	EPS	EXTRUDED POLY STYRENE	MFO	METAL ROOF DECK	TEL	TELEPHONE
ACOUS.	ACOUSTICAL	F	FABRICATED	N. THR	MILLWORK	TV	TELEVISION
ACT.	ACOUSTICAL CEILING TILE	FAB	FABRICATED	MIN.	MINIMUM	THR.	THRESHOLD
ADD.	ADDENDUM	FV.	FIELD VERIFY	MIR.	MIRROR	TO. COL.	TOP OF COLUMN
ADJ.	ADJACENT	FNSH	FINISH	MISC.	MISCELLANEOUS	T.O.C.	TOP OF CONCRETE
ADJ.	ADJUSTABLE	FNSH FLR.	FINISH FLOOR	MDO.	MODULAR	T.O.F.	TOP OF FOOTING
ADMIN.	ADMINISTRATION	FFE	FINISH FLOOR ELEVATION	MDOG.	MOLDING	T.O.J.	TOP OF JOIST
AGG.	AGGREGATE	FA	FIRE ALARM	MT.	MOUNT	T.O.P.	TOP OF PARAPET
AC	AIR CONDITIONING	FDC	FIRE DEPARTMENT CONNECTION	MTD.	MOUNTED	T.O.S.	TOP OF STEEL
ALT.	ALTERNATE, ALTERNATIVE	FE	FIRE EXTINGUISHER	MOV.	MOVE	TG	TONGS AND GROOVE
ALUM.	ALUMINUM	FEC	FIRE EXTINGUISHER CABINET	MULL.	MULLION	TR	TREAD
ANCH.	ANCHOR, ANCHORAGE	FHS	FIRE HOSE CABINET			TR	TYPICAL
ANOD.	ANODIZED	FPL	FIRE PLACE	N	NATURAL	U	UNDER CUT
APPROX.	APPROXIMATE	FP.	FIRE PROOFING	NAT.	NATURAL	UC	UNDER CUT
ARCH.	ARCHITECT	FRG.	FIRE RESISTANT COATING	NR.	NOISE REDUCTION	UNFIN.	UNFINISHED
A.D.	AREA DRAIN	F RT.	FIRE RETARDANT	NOM.	NOMINAL	UNO	UNLESS NOTED OTHERWISE
ASPH.	ASPHALT	FLSHG.	FLASHING	N	NORTH	UR	URNAL
AUTO.	AUTOMATIC	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	FURR.	FURRED (ING)	O.A.	OVER ALL	VIN. B.	VINYL BASE
B.W.	BOTH WAYS	FUT.	FUTURE	OVHRO.	OVER HEAD	VCT	VINYL COMPOSITION TILE
B.O.D.	BOTTOM OF DECK	FRG.	REFRIGERATOR	OFCD	OWNER FURNISHED CONTRACTOR INSTALLED	VIN. F.	VINYL FABRIC
BK.	BRACKET	G	GALVANIZED	OFDI	OWNER FURNISHED OWNER INSTALLED	VIN. T.	VINYL TILE
BRZ.	BRONZE	GALV.	GALVANIZED	P	PAINT	W	WANSOT
BLOG.	BUILDING	GSKT.	GASKET	PNT.	PANIC BAR	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	GLS.	GLASS	PB.	PANIC BAR	WRP.	WATER REPELLENT
CPT.	CARPET	GL. BLK.	GLASS BLOCK	PIDS.	PAPER TOWEL DISPENSER	WS.	WATER STOP
CSMT.	CASEMENT	GL. CMU.	GLAZED CONCRETE MASONRY UNIT	PTD.	PAPER TOWEL RECEPTACLE	WWF.	WELODED WIRE FABRIC
CP.	CAST IN PLACE CONCRETE	GST.	GLAZED STRUCTURAL TILE	PAR.	PANEL	WWM.	WELODED WIRE MESH
C.B.	CATCH BASIN	GBL.	GREEN BLOCK	P.B.	PARTICLE BOARD	W.	WEST
CLG.	CEILING	GRT.	GROUT	P. BD.	PARTITION	WDW.	WINDOW
CLG. HT.	CEILING HEIGHT	GYPCTE.	GYPCRETE	PARTN.	PARTITION	WGLS.	WIRE GLASS
CEM.	CEMENT	GYP. PL.	GYP. PLASTER	P.T.	PAYEMENT	WM.	WIRE MESH
CL	CENTERLINE	GYP. T.	GYP. T. GYPSUM TILE	PERF.	PERFORATED	W.	WITH
CT	CLEAN OUT	GWB	GYPSUM WALL BOARD	PLAS.	PLASTER	WO.	WITHOUT
C.O.	CLEAN OUT	H	HARD BOARD	PLAM	PLASTIC LAMINATE	WO.	WOOD
CLR.	CLEAR(ANCE)	HD. BO.	HARD BOARD	PL.	PLATE	WO. B.	WOOD BASE
CLO.	CLOSET	HD. JT.	HARD JOINT	P.L.	PLYWOOD	W. PT.	WORKING POINT
COL.	COLUMN	HDW.	HARDWARE	P.V.	POLYVINYL CHLORIDE		
COMP.	COMPRESS	HDWD.	HARDWOOD	PREFAB.	PREFABRICATED		
COMP.	COMPUTER	HDR.	HEADER	PREFIN.	PREFINISHED		
CONC.	CONCRETE	HTG.	HEATING	Q	QUARRY TILE		
CMU.	CONCRETE MASONRY UNIT	HVAC.	HEATING, VENTILATION, AIR CONDITIONING	QT.	QUARRY TILE		
CONSTR.	CONSTRUCTION	HV. D.	HEAVY DUTY				
CONT.	CONTINUOUS	HT.	HEIGHT				
CONTR.	CONTRACTOR	HC.	HOLLOW CORE				
CFCI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	HM.	HOLLOW METAL				
C.J.	CONTROL JOINT	HORIZ.	HORIZONTAL				
CPR.	COPPER	HB.	HOSE BIB				
CG.	CORNER GUARD	HR.	HOT WATER HEATER				
CORR.	CORRIDOR	I	INCLUDE				
CTR.	COUNTER	INCL.	INCLUDE				
C. FL.	COUNTER FLASHING	ID.	INSIDE DIAMETER				
CTR. SINK.	COUNTER SINK	INSUL.	INSULATION				
CRS.	COURSE	INT.	INTERIOR				
CU. FT.	CUBIC FEET	INTERM.	INTERMEDIATE				
CU. YD.	CUBIC YARD	INV.	INVERT				
D	DAMP PROOFING						
D.P.	DAMP PROOFING						
DPR.	DAMP PROOFING						
DL	DEAD LOAD						
DEM.	DEMOLISH, DEMOLITION						
DEP.	DEPRESS						
DTL.	DETAIL						
DIAG.	DIAGONAL						
DAM.	DAMETER						
DW.	DISH WASHER						
DISPR.	DISPENSER						
DV.	DIVISION						
DR.	DOOR						
DBL.	DOUBLE						
DH.	DOUBLE HUNG						
DN.	DOWN						
DS.	DOWNSPOUT						
DRL.	DRAIN						
DRL. BD.	DRAIN BOARD						
DRL. TL.	DRAIN TILE						
DWR.	DRAWER						
DWG.	DRAWING						
DF.	DRINKING FOUNTAIN						
E	EACH						
EA.	EACH FACE						
EA. FA.	EAST						
E.	ELECTRIC						
ELEC.	ELECTRIC						
EPF.	ELECTRIC DRINKING FOUNTAIN						
EP.	ELECTRIC PANEL						
ELEV.	ELEVATION						
EMERG.	EMERGENCY						
ENCL.	ENCLOSURE						
EQ.	EQUIP.						
EQU.	EQUIPMENT						
ESC.	ESCALATOR						
EXCAV.	EXCAVATE						
EXH.	EXHAUST						
EXIST.	EXISTING						
EXP.	EXPANSION						

SYMBOLS & LEGENDS

ARCHITECTURAL DRAWING SYMBOLS

	ROOM TAG WITH ROOM FINISH		COLUMN GRID
	ROOM TAG WITH OCCUPANCY SF-SQUARE FEET P-PEOPLE		REVISION TAG
	DOOR TAG		REVISION CLOUD
	PARTITION TAG		ALIGN FACES
	HOLLOW METAL FRAME TAG		NOTE BY NUMBER - SHAPE MAY VARY
	ALUMINUM FRAME TAG		NORTH ARROW
	EXPANSION JOINT		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
	ENLARGED CALL OUT		FIRE EXTINGUISHER CABINET
	BUILDING SECTION TAG		FIRE EXTINGUISHER
	WALL SECTION TAG		CENTER LINE
	DETAIL SECTION TAG		MATCH LINE
	EXTERIOR ELEVATION TAG		PROPERTY LINE
	INTERIOR ELEVATION TAG		BREAK LINE
	VIEW REFERENCE DETAIL		LONGEST TRAVEL DISTANCE TO EXIT
	ELEVATION LEVEL TAG		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

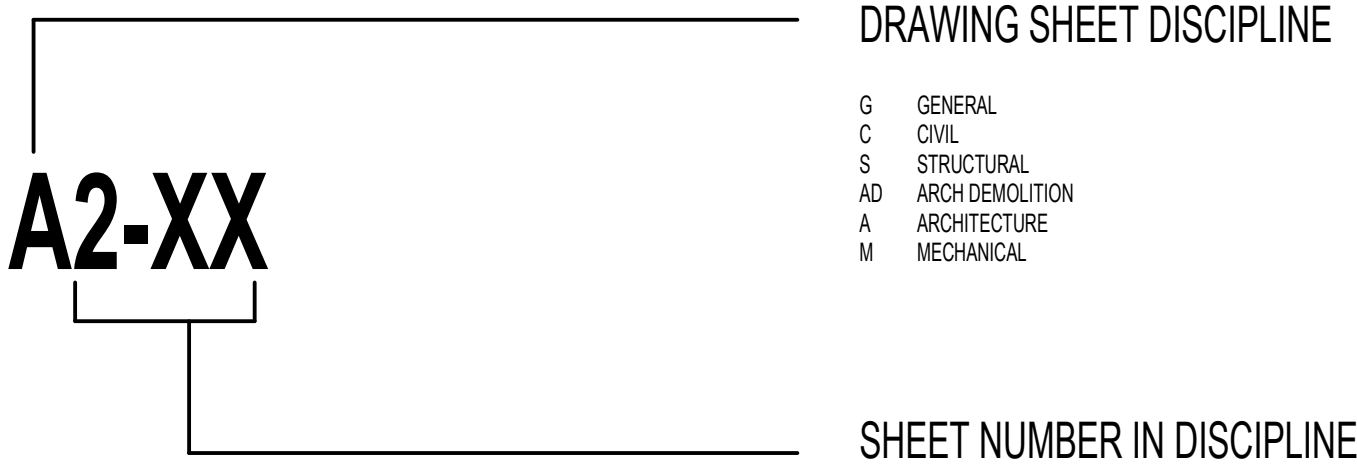
MATERIALS LEGEND

	EARTH (COMPACTED)
	POURIOUS FILL (STONE OR GRAVEL)
	CONCRETE
	PLASTER/SANDIMENT/ 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 "SMACNA" 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

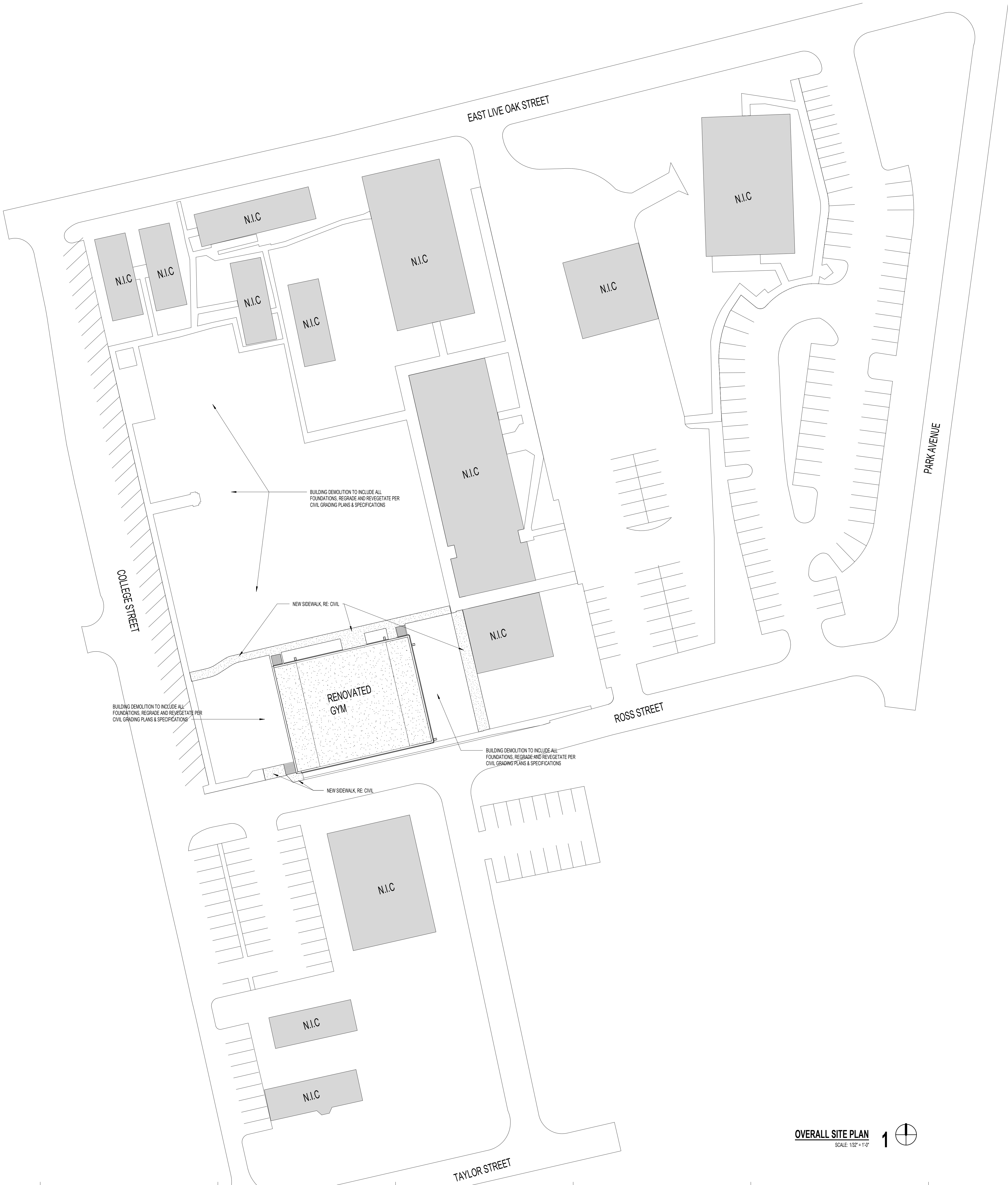


DRAWING SHEET DISCIPLINE

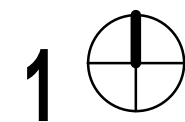
G	GENERAL	P	PLUMBING
C	CIVIL	E	ELECTRICAL
S	STRUCTURAL	T	TECHNOLOGY
AD	ARCH DEMOLITION		
A	ARCHITECTURE		
M	MECHANICAL		

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

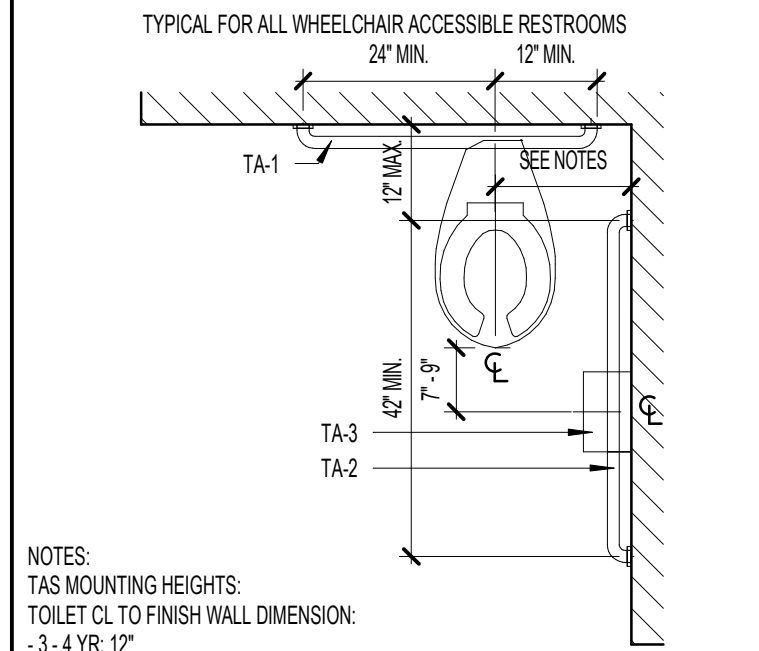
HUTTO ISD

200 COLLEGE STREET
HUTTO, TEXAS 78634

pfluger

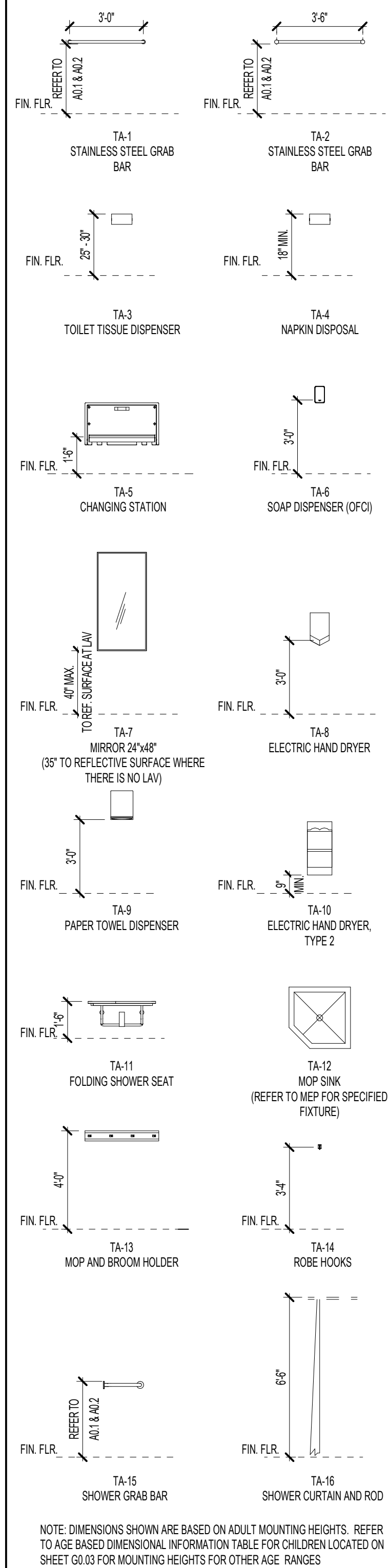
office: 512.476.4040 | fax: 512.476.4289
209 E. Riverside Drive Austin, Texas 78704
pflugerarchitects.com

RESTROOM WHEELCHAIR ACCESS, TYPICAL



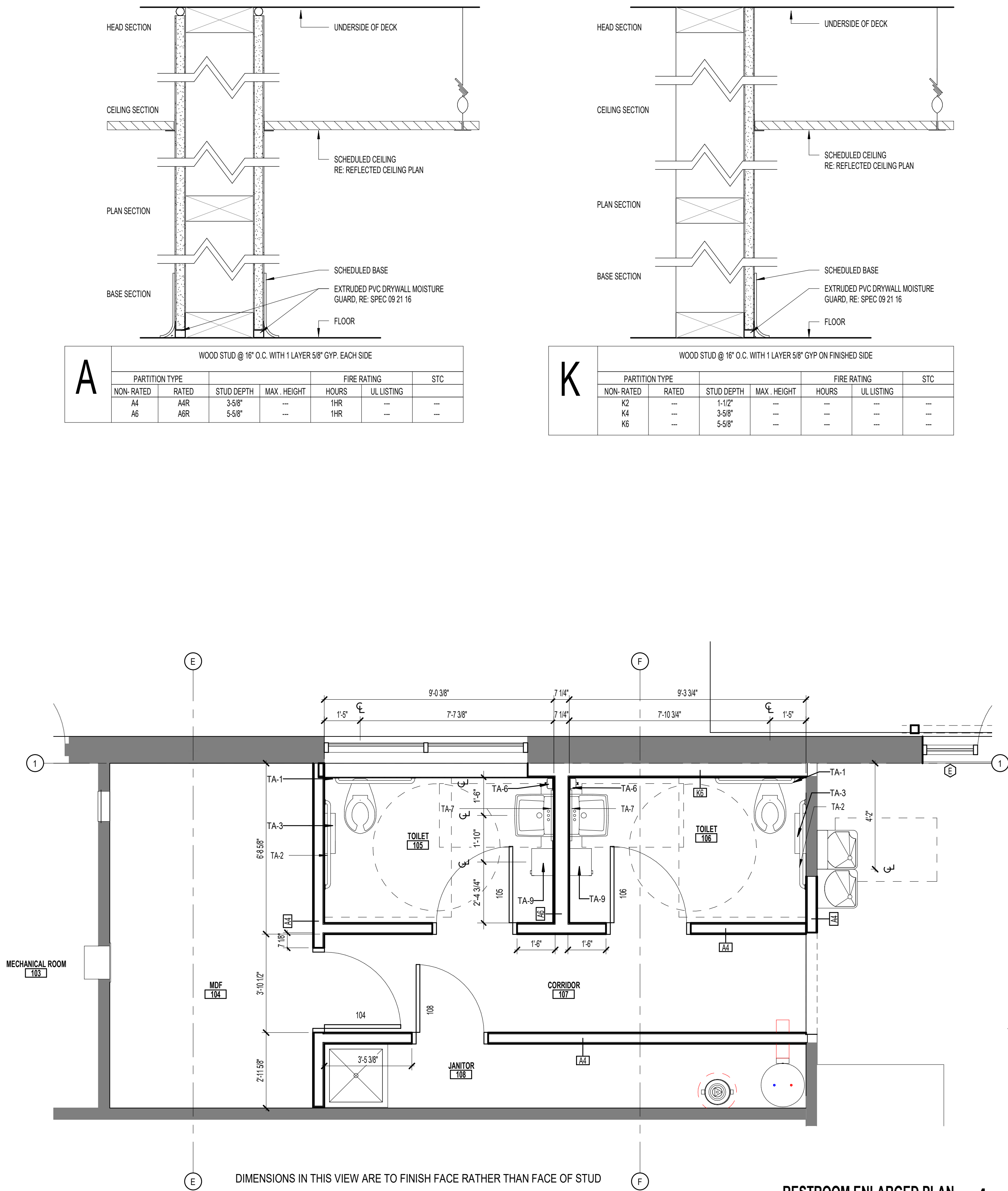
NOTES:
TAS MOUNTING HEIGHTS:
TOILET CL. TO FINISH WALL DIMENSION:
• 3-4 YR: 12"
• 5-8 YR: 12" - 15"
• 9-12 YR: 15" - 18"
• ADULT: 18" - 19"

TYPICAL MOUNTING HEIGHTS, U.N.O.

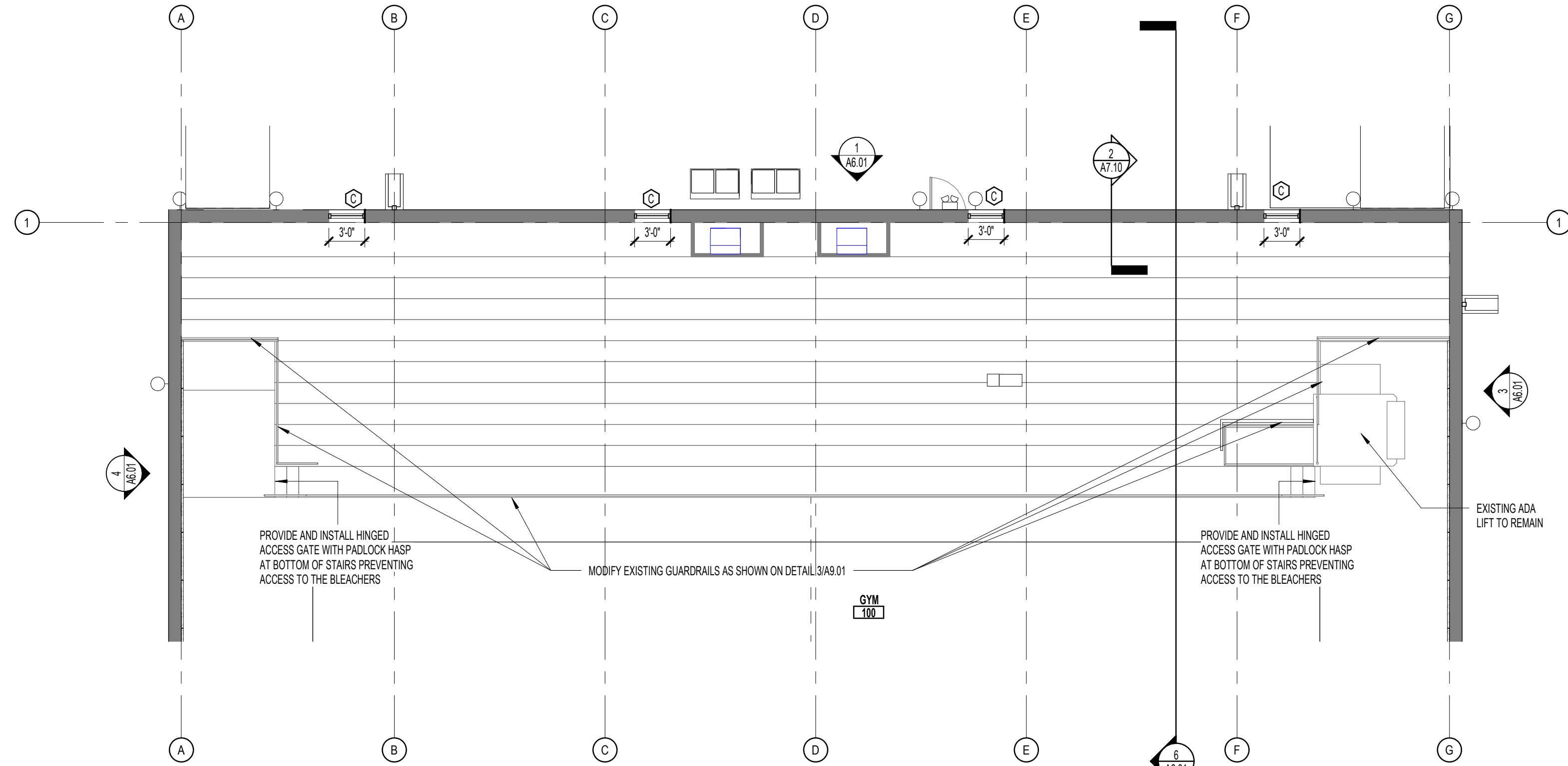


ENLARGED PLANS: GENERAL NOTES

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



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



FLOOR PLAN - GYM BLEACHERS

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

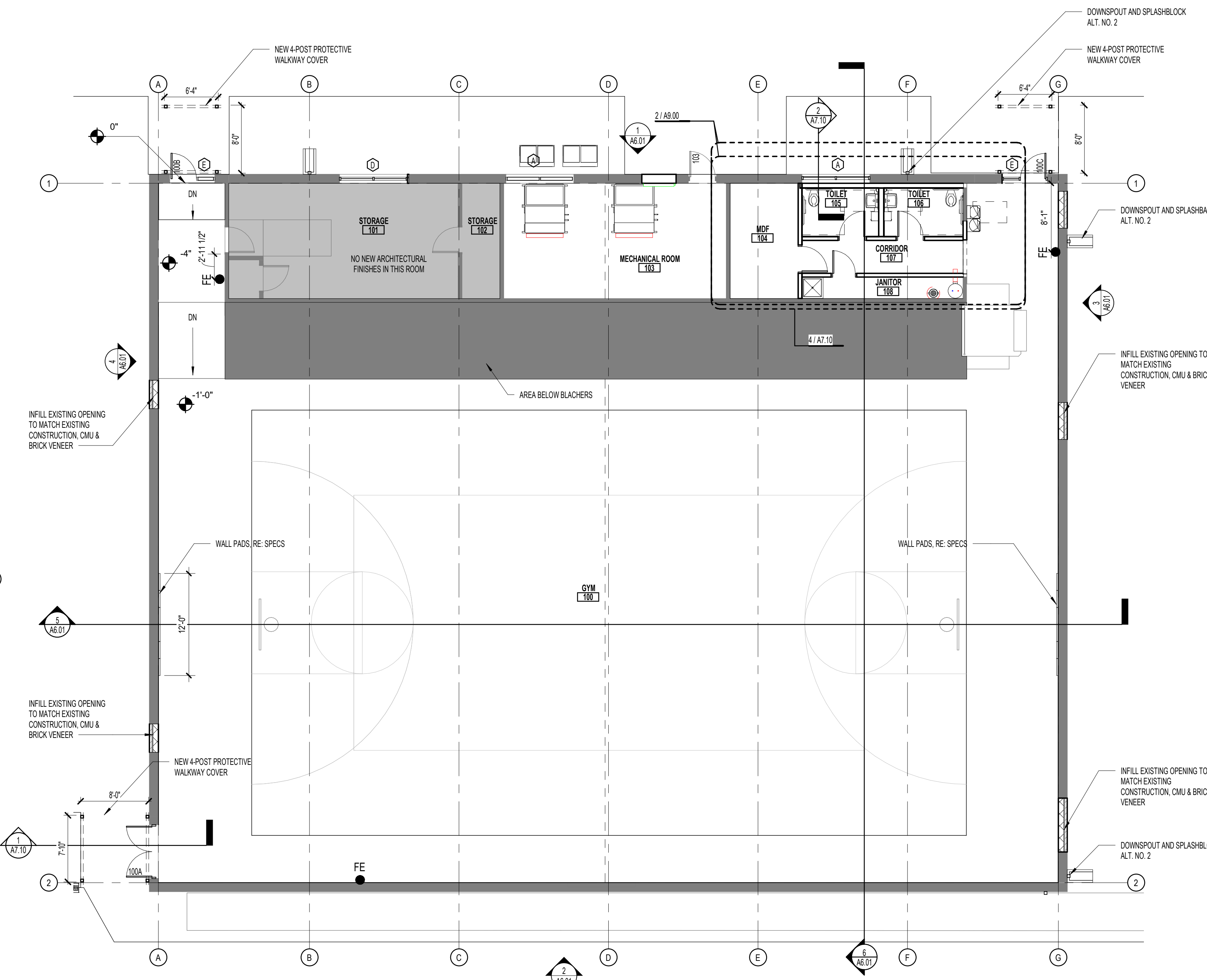
2

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 STUDFACE OF CMUTILT WALL OF INTERIOR WALLS, UNLESS OTHERWISE INDICATED.
4. ALL SINKS AND LAVATORIES SHALL BE MOUNTED SO THAT THE CENTERLINE OF THE FIXTURE IS 1'-3" MIN. TO THE FACE OF ADJACENT FIXED EQUIPMENT, PARTITIONS, CASEWORK, WALLS, ETC. AND 1'-3" MIN. TO THE CENTER OF AN ADJACENT FIXTURE.
5. PROVIDE MINIMUM 1'-0" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EVERY DOOR WITH A CLOSER & LATCH. PROVIDE MINIMUM 1'-4" CLEAR AT THE PULL SIDE OF EVERY DOOR, UNLESS SPECIFICALLY DIMENSIONED, NOTED, OR SHOWN OTHERWISE.

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" DIAMETER ADA TURN AROUND



FLOOR PLAN

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

1

HUTTO ISD GYM RENOVATION

302 COLLEGE STREET HUTTO, TX 78634

HUTTO ISD

200 COLLEGE STREET
HUTTO, TEXAS 78634



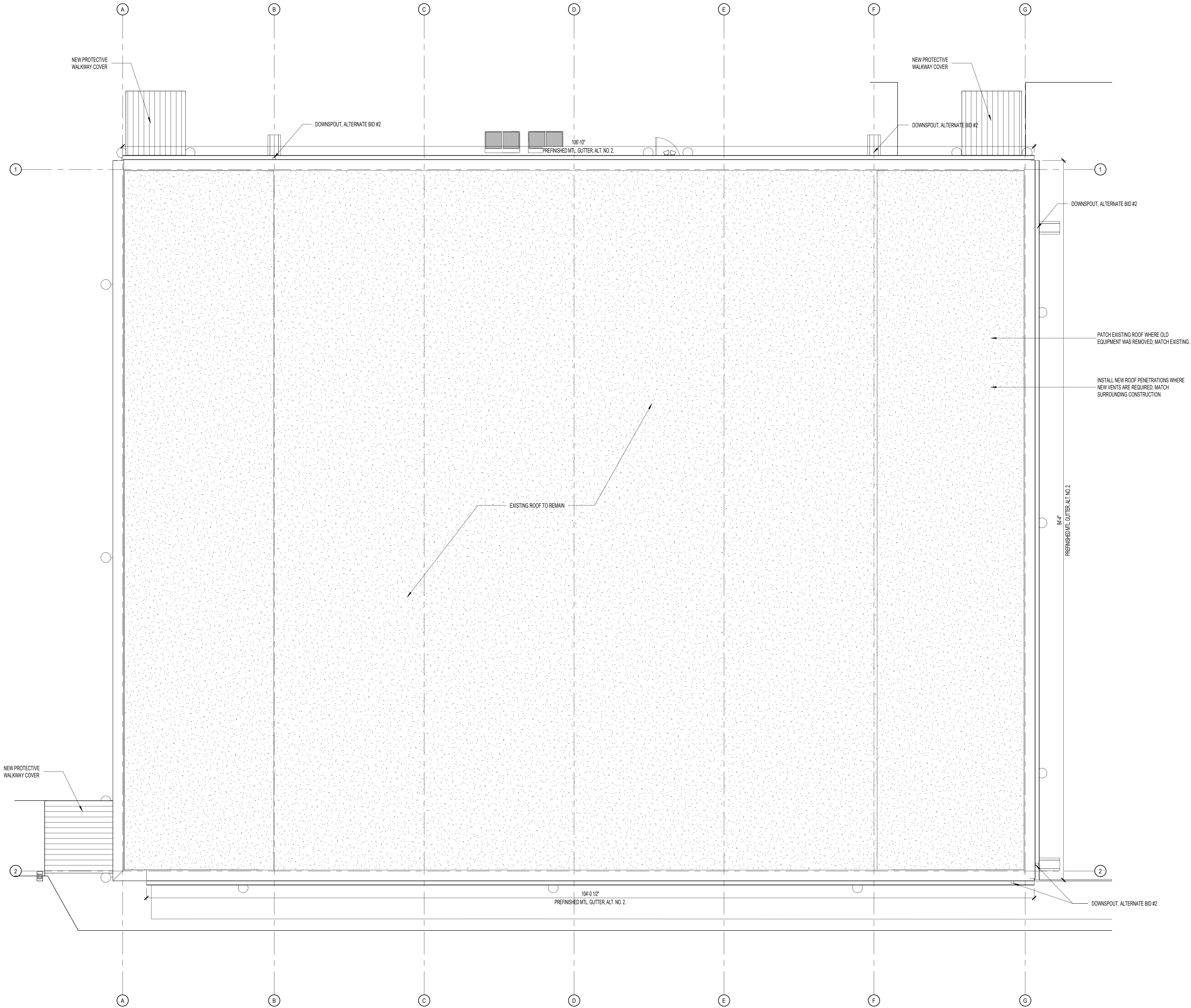
DATE: 04/05/2021

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

BID SET
A2.01
FLOOR PLAN

pfluger

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



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

1

HUTTO ISD

HUTTO ISD GYM RENOVATION

200 COLLEGE STREET
HUTTO, TEXAS 78634



DATE: 04/05/2021

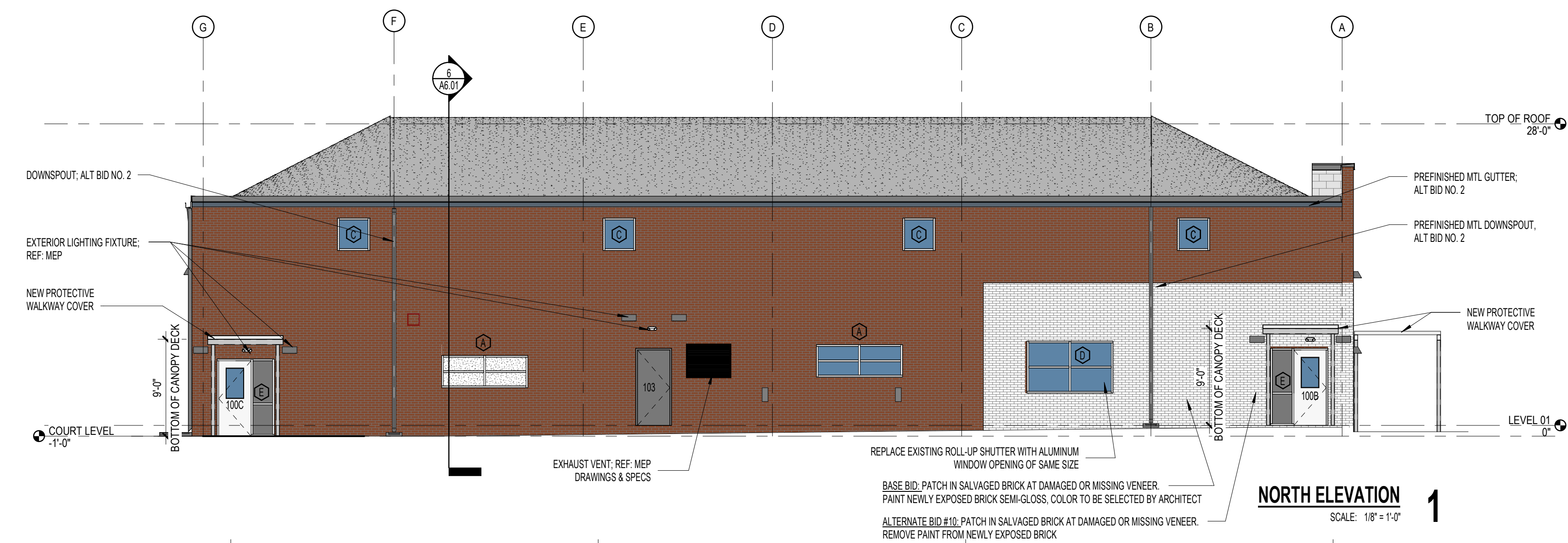
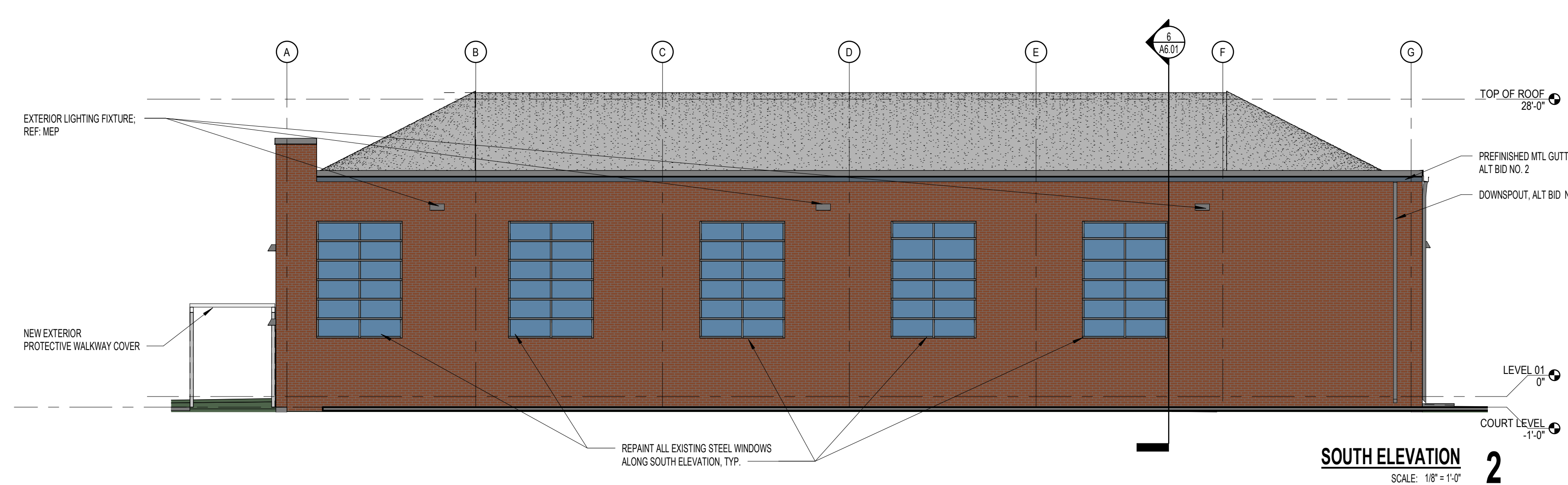
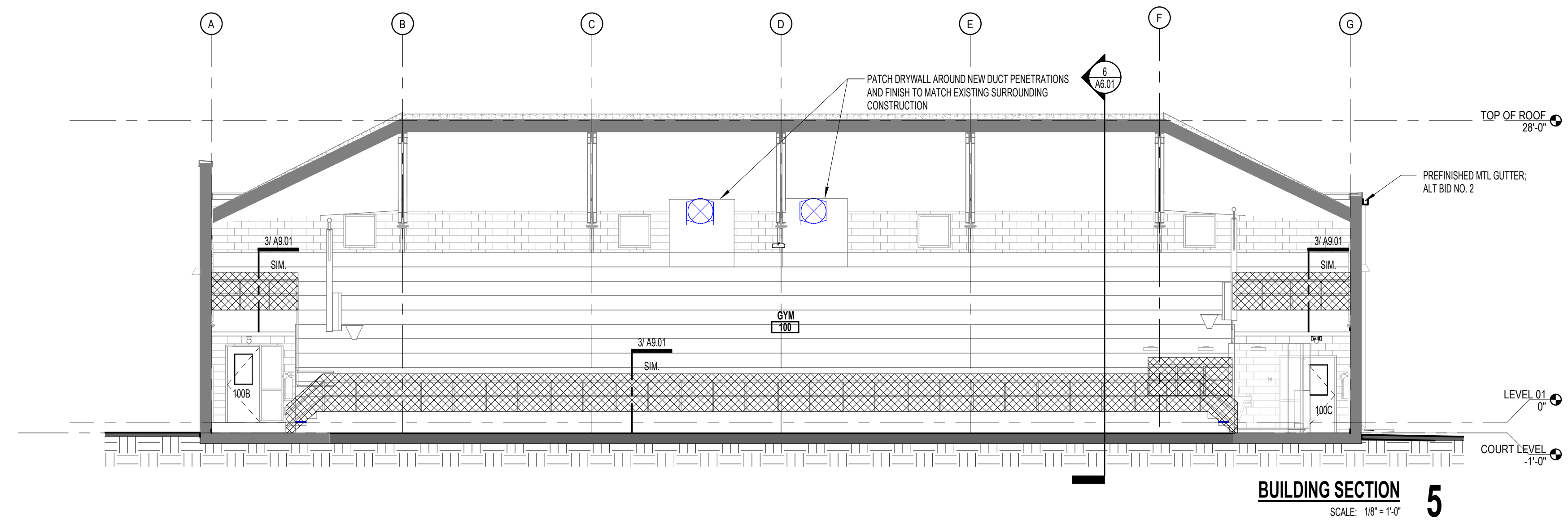
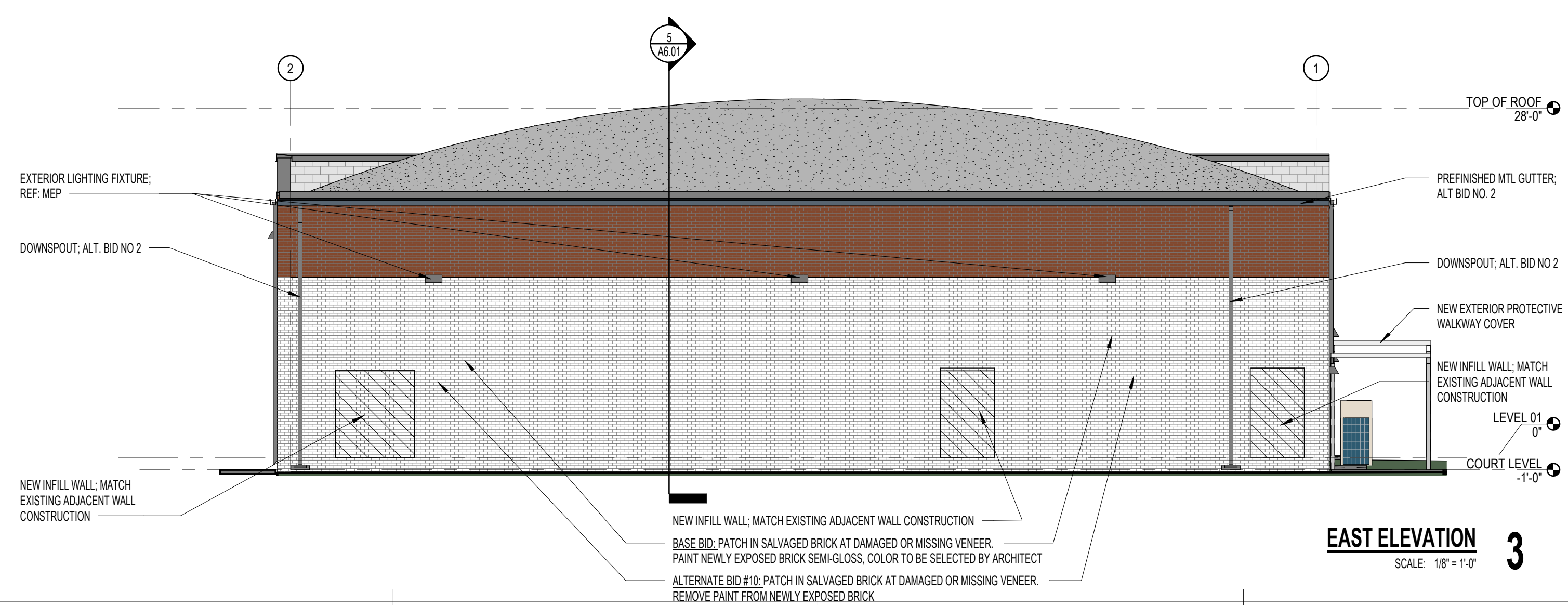
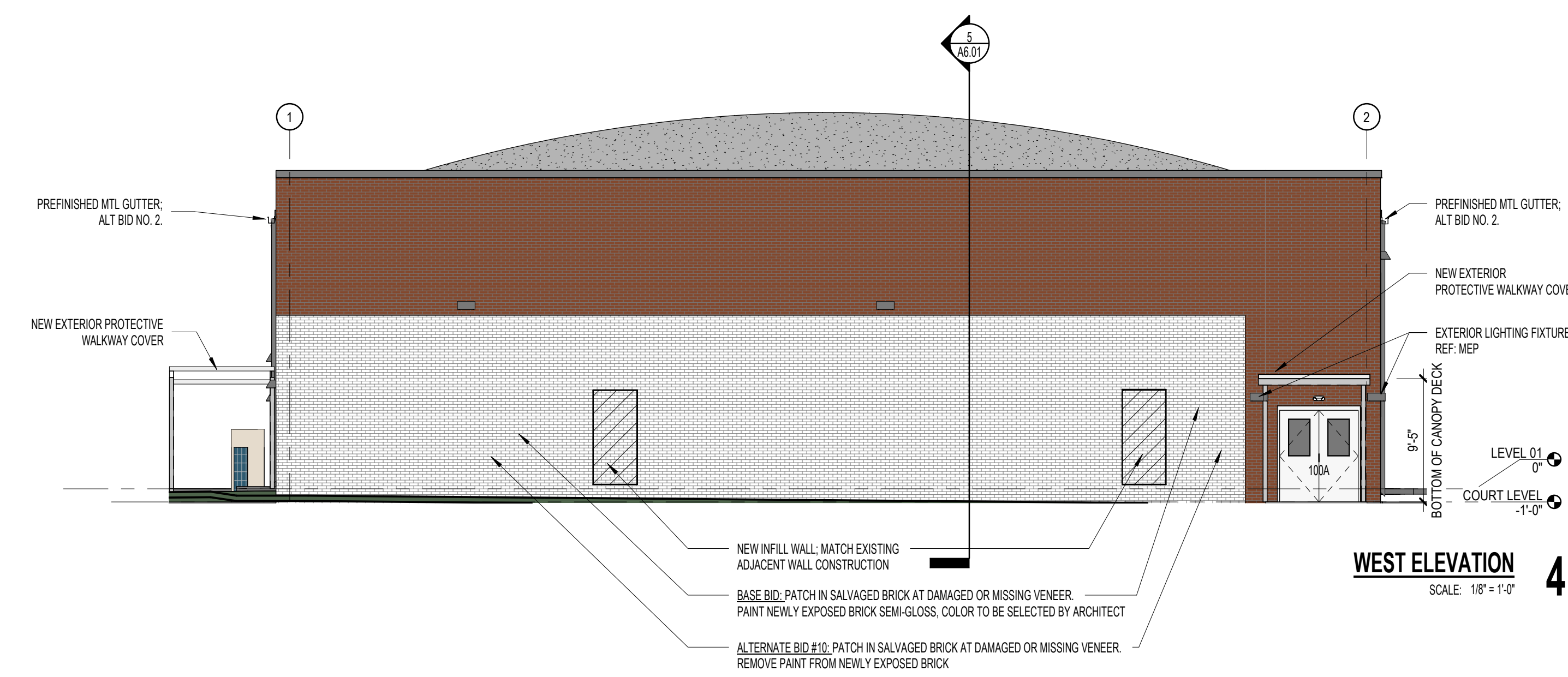
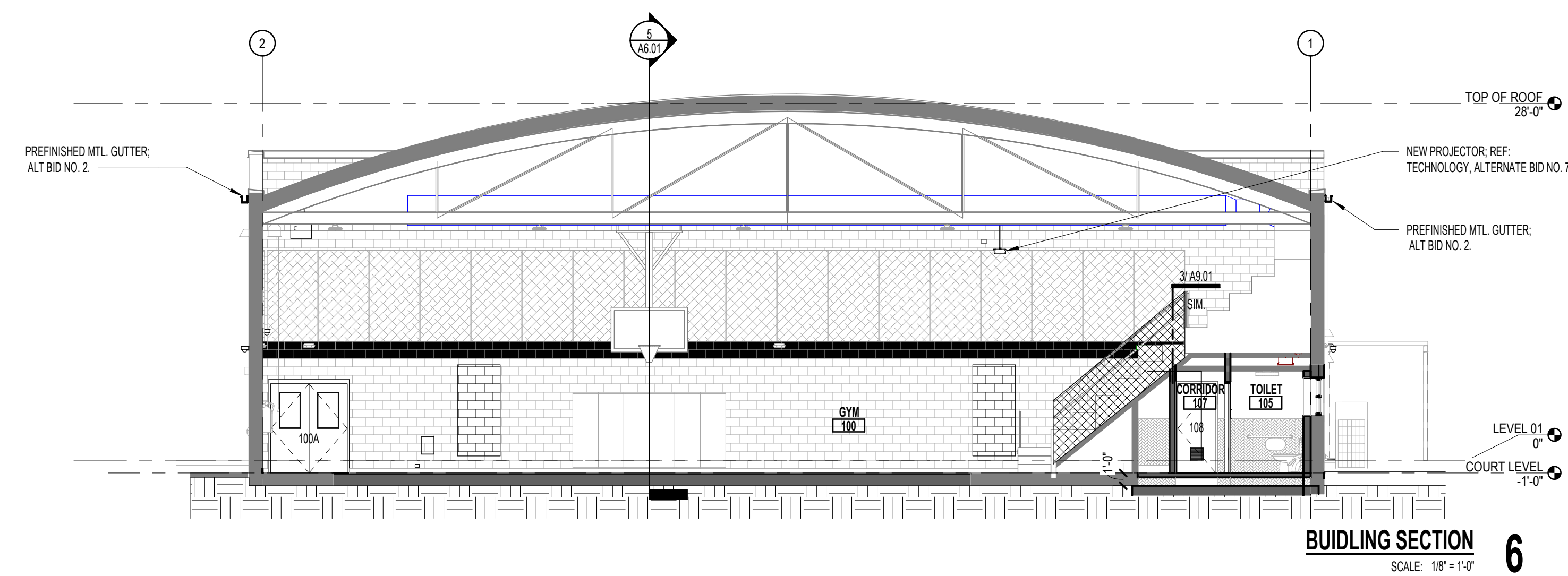
PROJECT NO. 20-038
DATE: 04/05/2021
DRAWN BY: DRW CHECKED BY: JMM
REVISIONS:

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

BID SET
A5.01
ROOF PLAN

pfluger

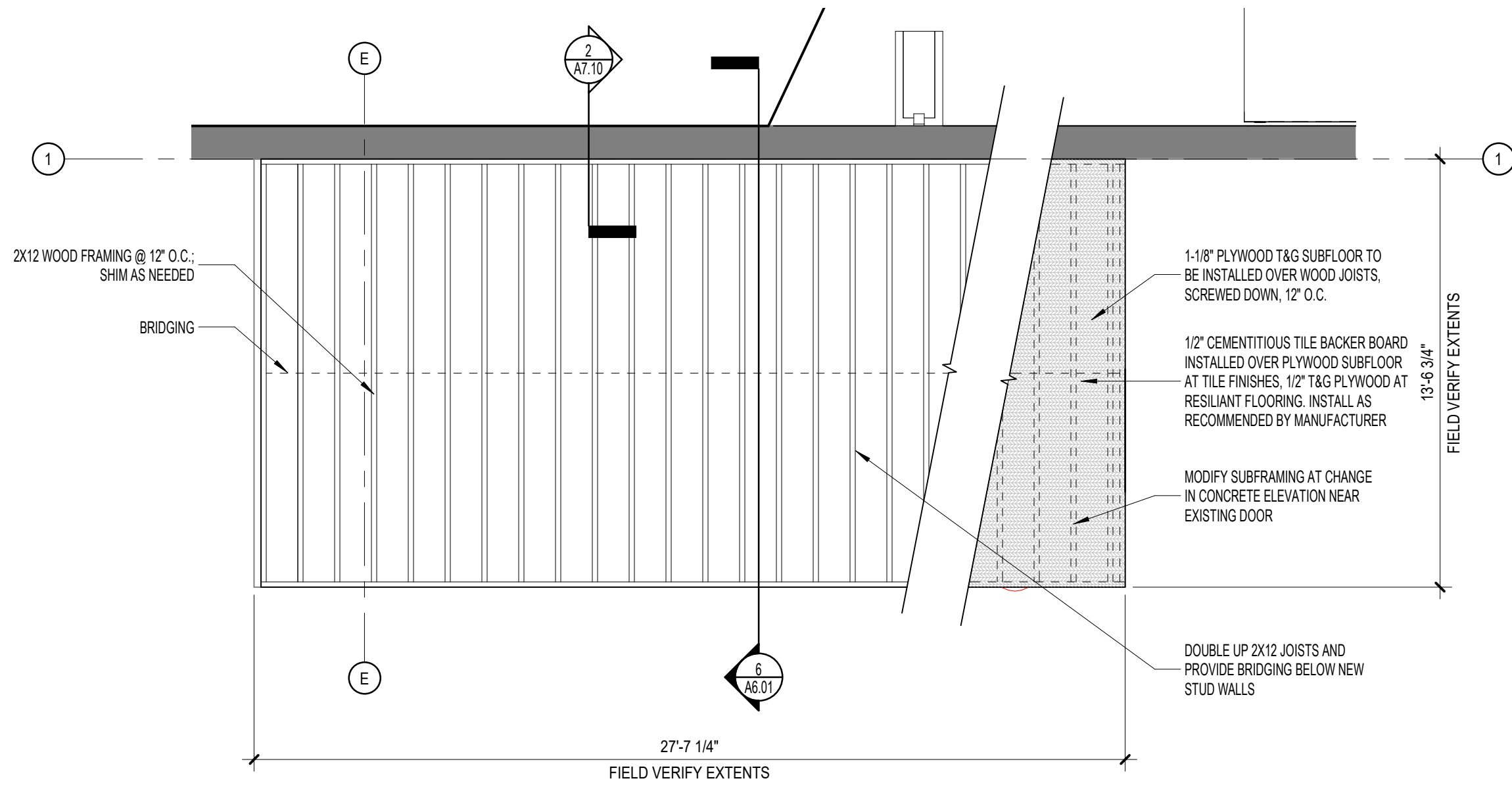
office: 512.476.4040 | fax: 512.476.4289
209 E. Riverside Drive Austin, Texas 78704
pflugerarchitects.com



EXTERIOR MATERIAL LEGEND

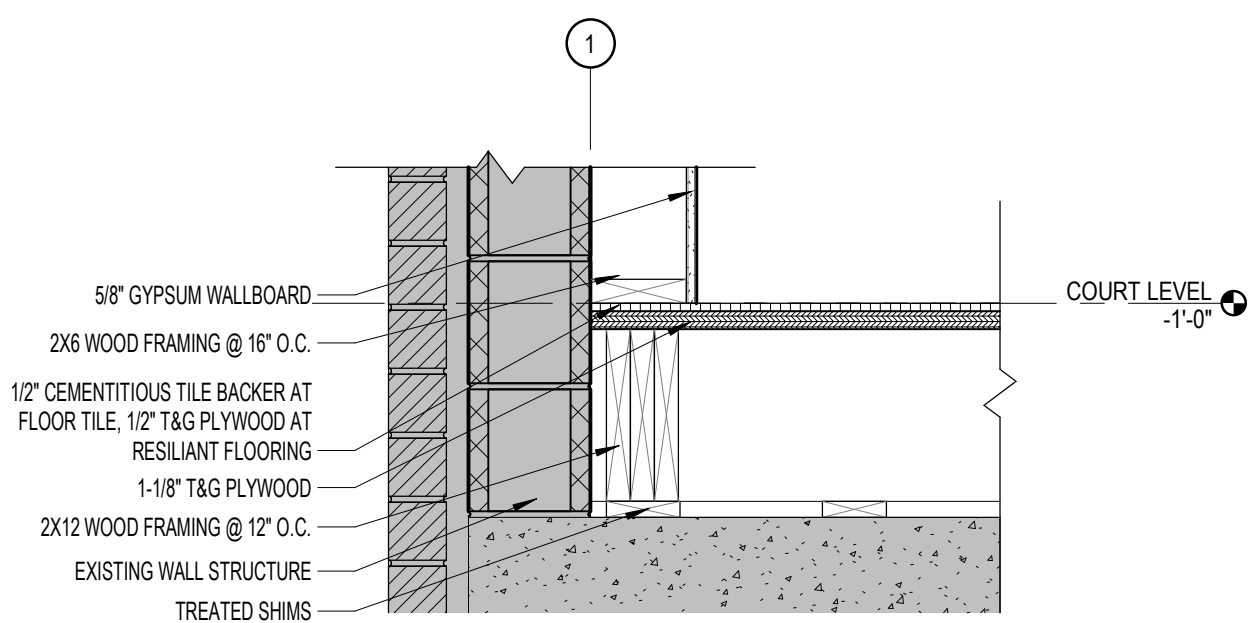
	NEWLY INSTALLED BRICK SALVAGED FROM DEMOLISHED BUILDING
	EXISTING BRICK
	EXISTING CONCRETE MASONRY UNIT
	NEW CONCRETE MASONRY UNIT
	MODIFIED BITUMINOUS ROOFING
	REPAIR/REPLACE EXISTING BRICK IN LOCATIONS INDICATED AS A RESULT OF DEMOLITION





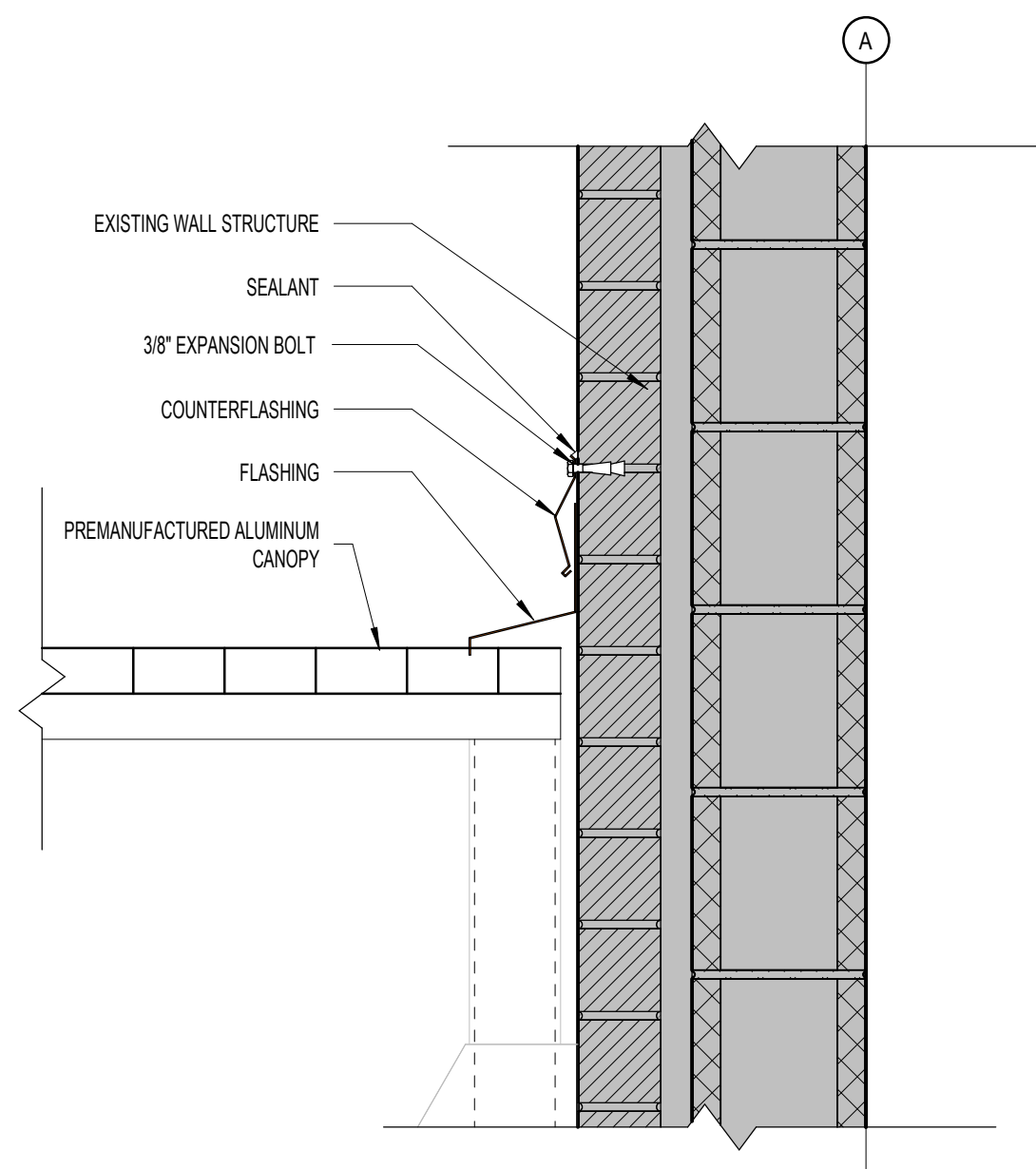
WOOD FLOOR FRAMING PLANS AT ROOMS 104, 105, 106, 107 & 108
SCALE: 1/8" = 1'-0"

4



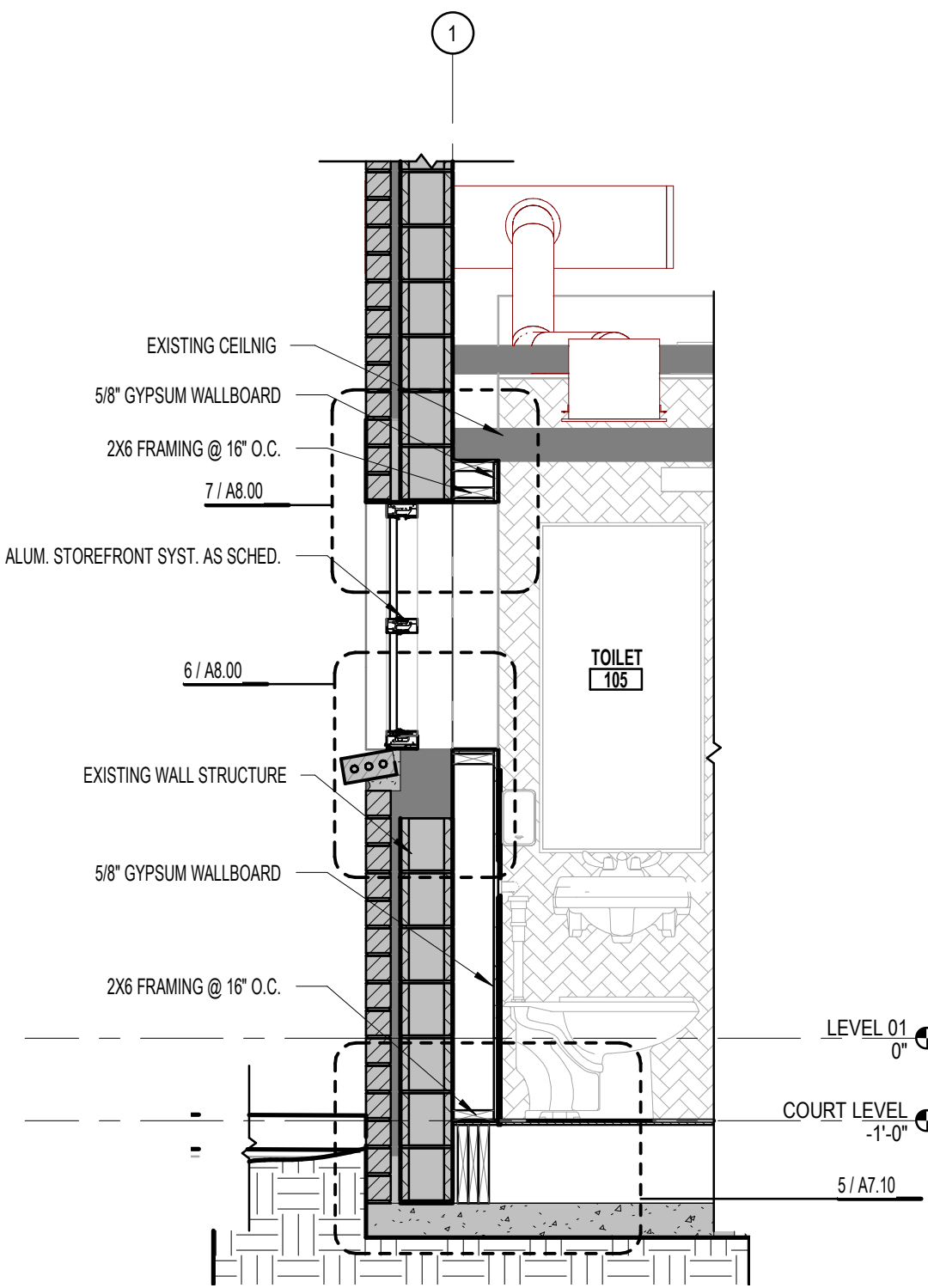
SECTION DETAIL
SCALE: 1" = 1'-0"

5



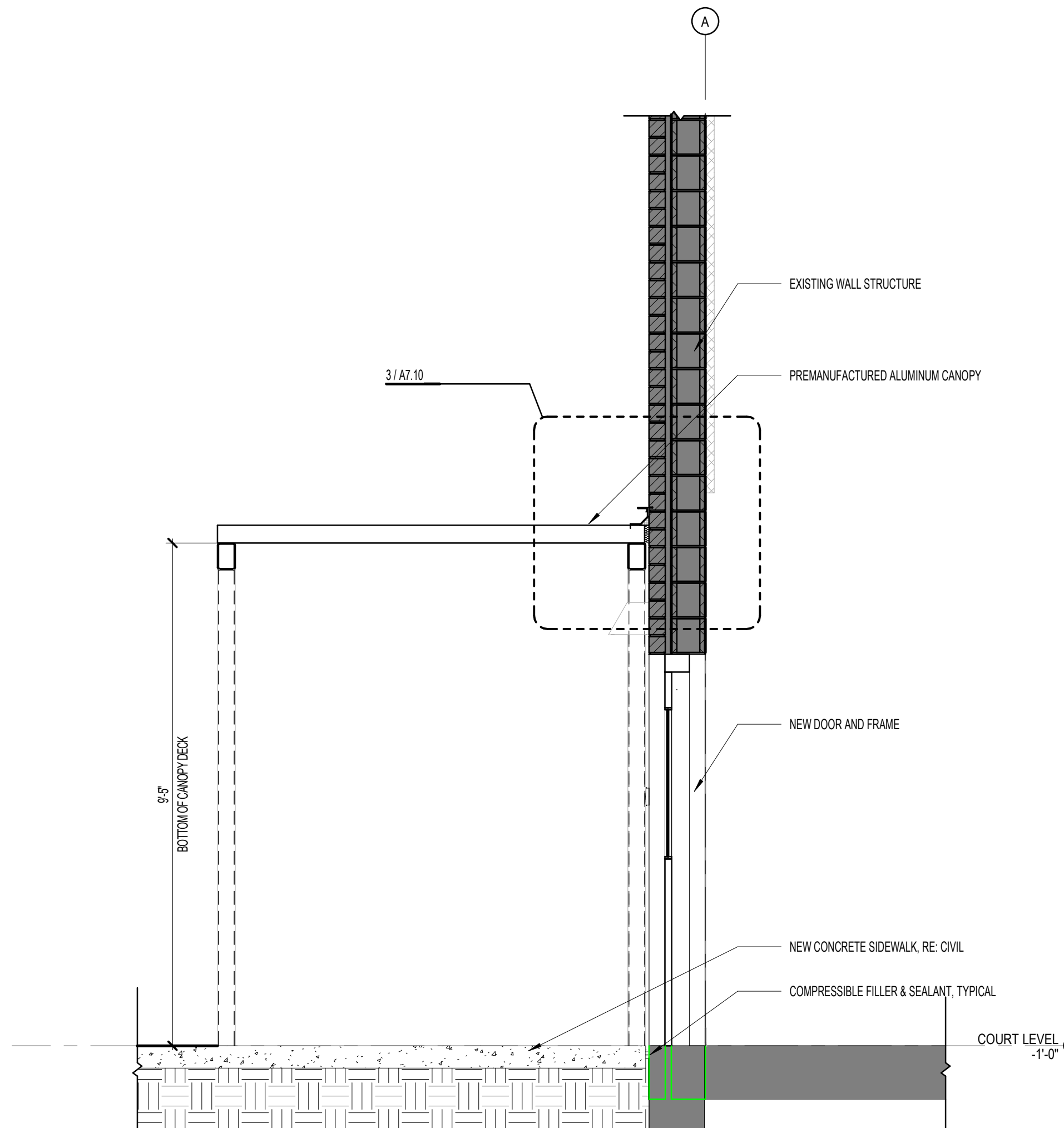
SECTION DETAIL
SCALE: 1/2" = 1'-0"

3



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

2



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

1

pfluger

office: 512.476.4040 | fax: 512.476.4289
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

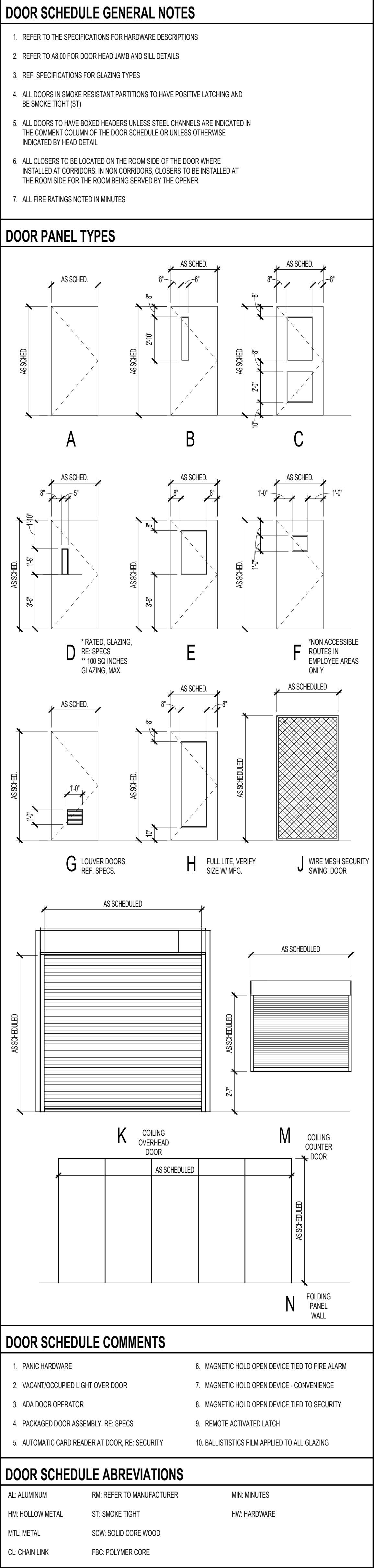
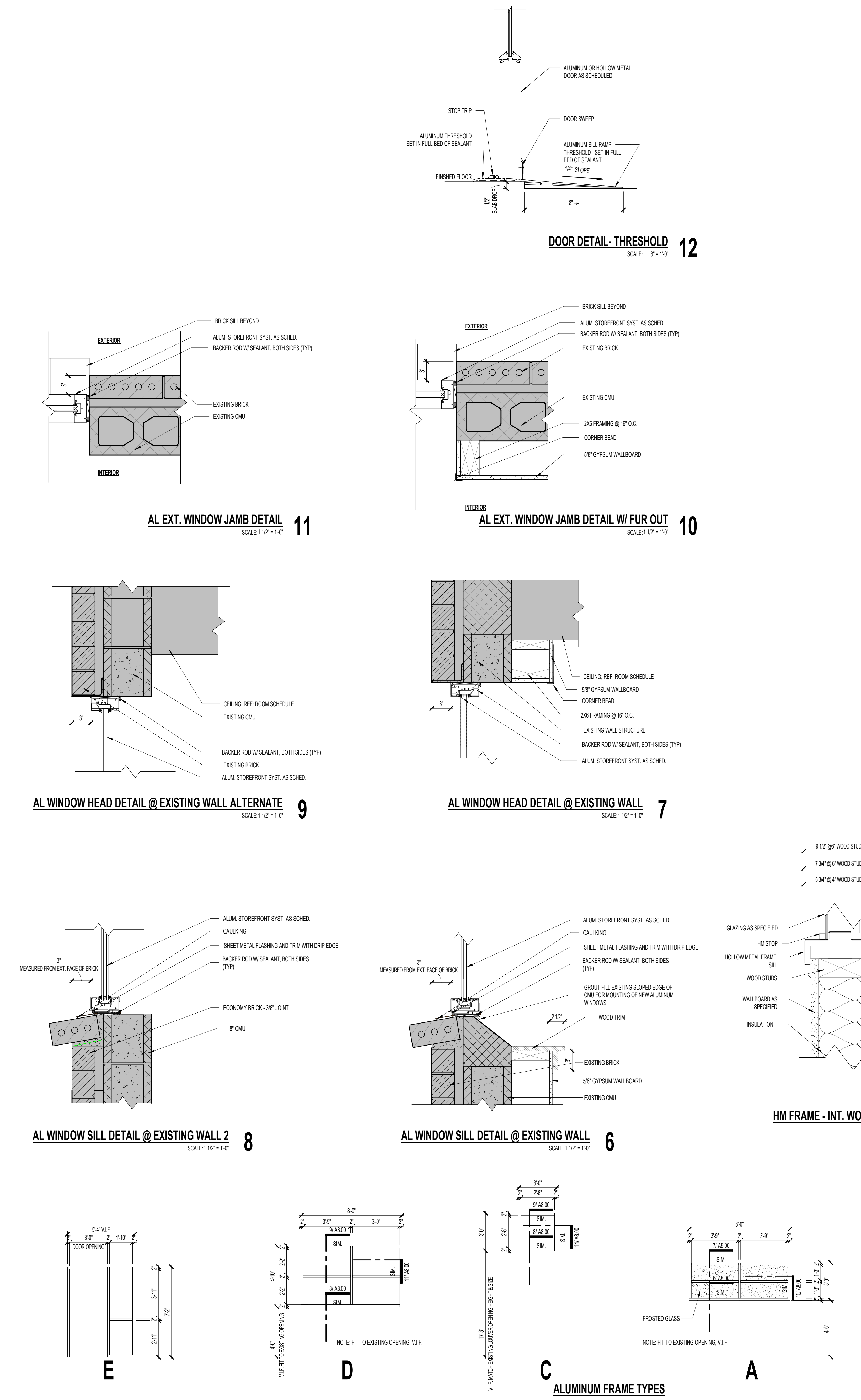


DATE: 04/05/2021

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

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

BID SET
A7.10
WALL SECTIONS



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

SIGN TYPE "A"

5/8" TEXT

5/8" TEXT

100 CONFERENCE

SIGN TYPE "B"

5/8" TEXT

5/8" TEXT

100 COUNSELING CENTER

SIGN TYPE "B"

5/8" TEXT

5/8" TEXT

100 RESTROOM

SIGN TYPE "C"

5/8" TEXT COMPLY WITH TAS, TYP

1" TEXT

100 WOMEN

SIGN TYPE "D1"

5/8" TEXT COMPLY WITH TAS, TYP

1" TEXT

100 MEN

SIGN TYPE "D2"

5/8" TEXT

5/8" TEXT

300 BAND HALL

300F REHEARSAL

SIGN TYPE "E"

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 1/2"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"

6

INTERIOR ELEVATION - RR 105 EAST

O.H. @ ROOM 108

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

5

INTERIOR ELEVATION - RR 106

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

4

INTERIOR ELEVATION - RR 105

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

3

ENLARGED FINISH PLAN

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

2

FINISH PLAN - LEVEL 01

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

1

FINISH PLAN - LEVEL 01

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

1

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	MDR	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, CEILING 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

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

- ARCHITECT TO SELECT COLORS. CONTRACTOR TO COORDINATE LEAD TIMES FOR ALL MATERIALS TO MAINTAIN PROJECT SCHEDULE.
- FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATING MILLWORK TO ASSURE PROPER FIT W/ AS-BUILT CONDITIONS.
- PROVIDE CONTROL JOINTS AS SHOWN AND SPECIFIED.
- REFERENCE WINDOW AND DOOR TYPES AS SPECIFIED FOR EXACT DIMENSIONS AND TYPES OF EACH ITEM.
- REFERENCE BUILDING SECTIONS FOR ADDITIONAL INFORMATION.
- REFER TO A2.01 FOR SIZES & LOCATIONS OF GRAB BARS & OTHER TOILET ACCESSORIES.
- 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

POOR (P) (S&P-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 (UNO).

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

FLOOR TRANSITIONS

FT-5	MARBLE THRESHOLD, RE: SPECS
------	-----------------------------

HUTTO ISD GYM RENOVATION

302 COLLEGE STREET HUTTO, TX 78634

HUTTO ISD

200 COLLEGE STREET
HUTTO, TEXAS 78634

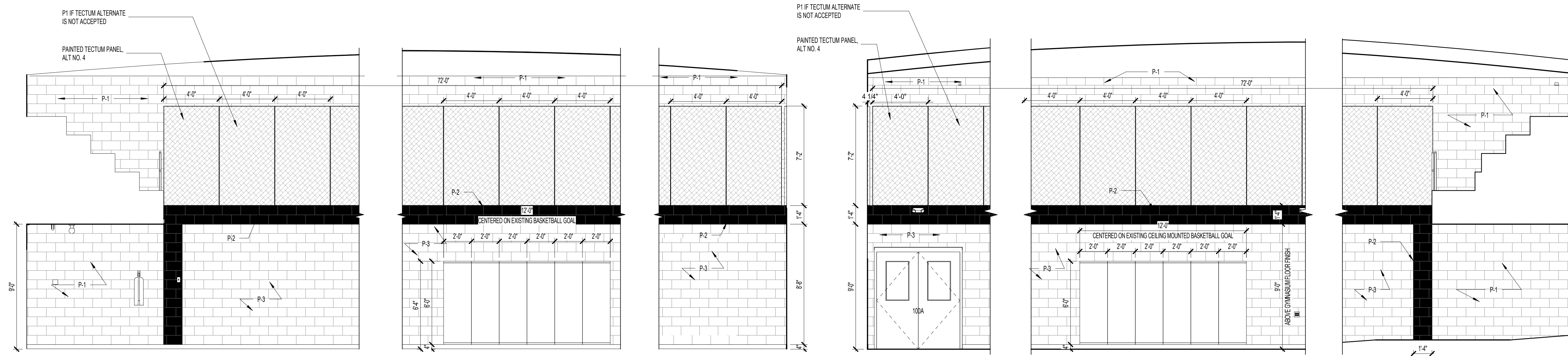
REGISTERED ARCHITECT
JAMES MOORE
STATE OF TEXAS
19850

DATE: 04/05/2021

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

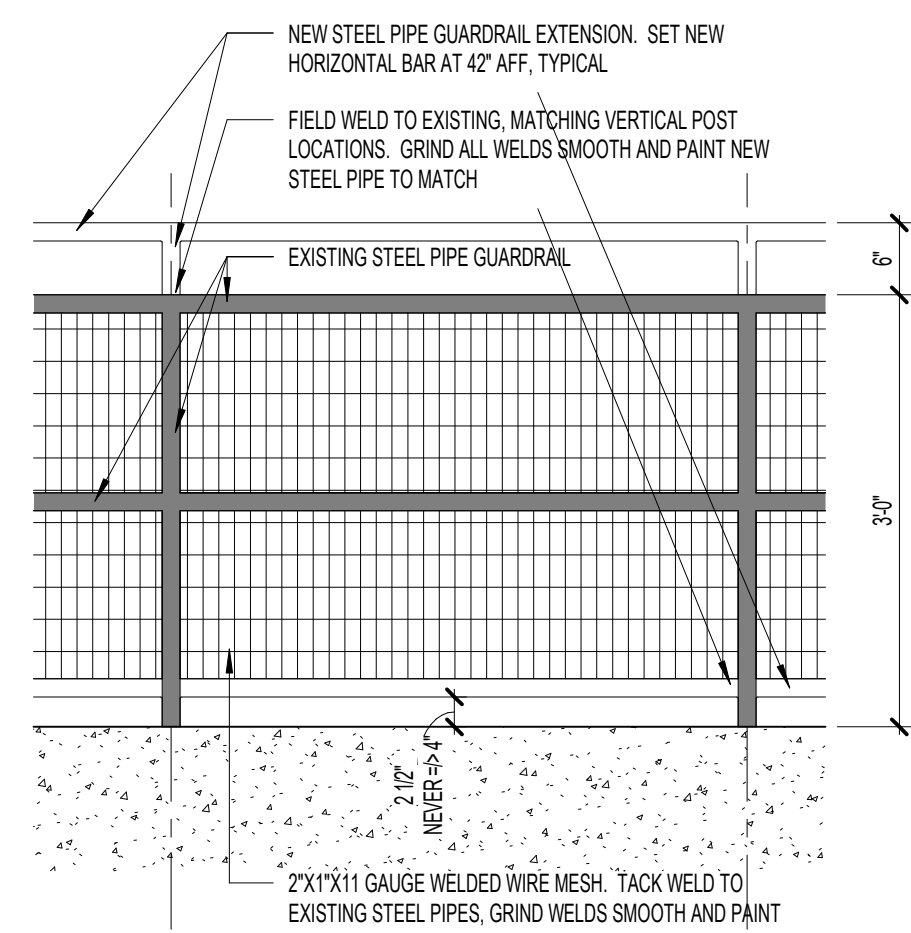
BID SET
A9.00
INTERIOR FINISH PLAN
& SCHEDULE

Page 39 of 93

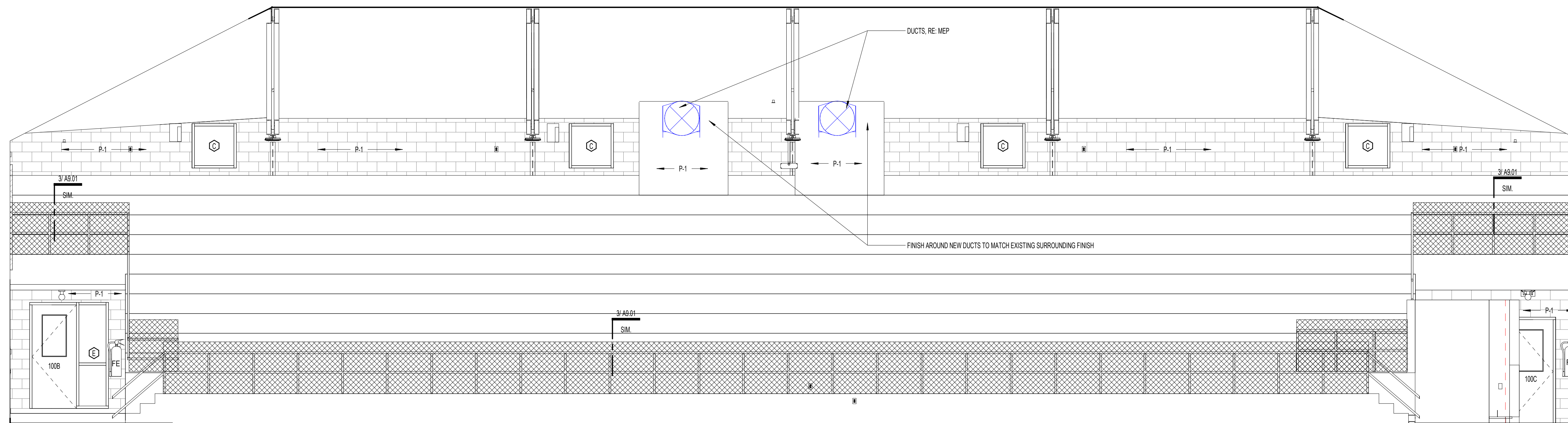


INTERIOR ELEVATION - GYM NORTH

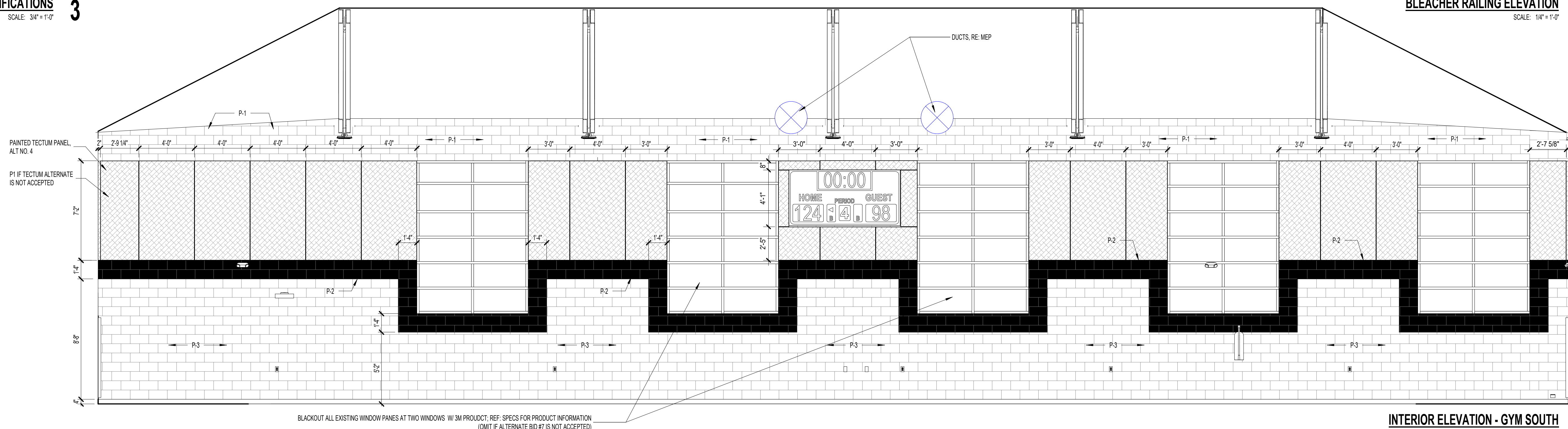
INTERIOR ELEVATION - GYM WEST 4
SCALE: 1/4" = 1'-0"



GUARDRAIL MODIFICATIONS



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



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

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
R8	RUBBER BASE
<u>WALL FINISHES</u>	
T2	WALL TILE
P-1	WHITE PAINT
P-2	BLACK PAINT
P-3	ORANGE PAINT
EPK4	WHITE EPOXY PAINT
TF	TAPE & FLAT WALLS ONLY - NO PAINT
<u>CEILING SYSTEMS</u>	
EPX	EPOXY PAINT EXISTING WOOD CEILING
EXP-2	EXPOSED STRUCTURE, NO 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 (A6.0 & A6.1) FOR DESIGN DETAILS.
3. ALTERNATE B104: PROVIDE ACOUSTIC PANELS. REFER TO INTERIOR ELEVATIONS FOR SIZES & TYPES.
4. REFER TO REFLECTED CEILING PLAN (A10 SERIES DWG5) FOR PAINTED GYP. BO AND/OR SPECIALTY TYPING OF CEILING.
5. AT MOP ROOMS: PROVIDE 7'-0" 3/4" PLYWOOD ON ALL WALL SURFACES. PAINT SIDES AND EDGES BLACK.
6. ALTERNATE B103: REPAIR AND REFRESH 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 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

ROOM
100

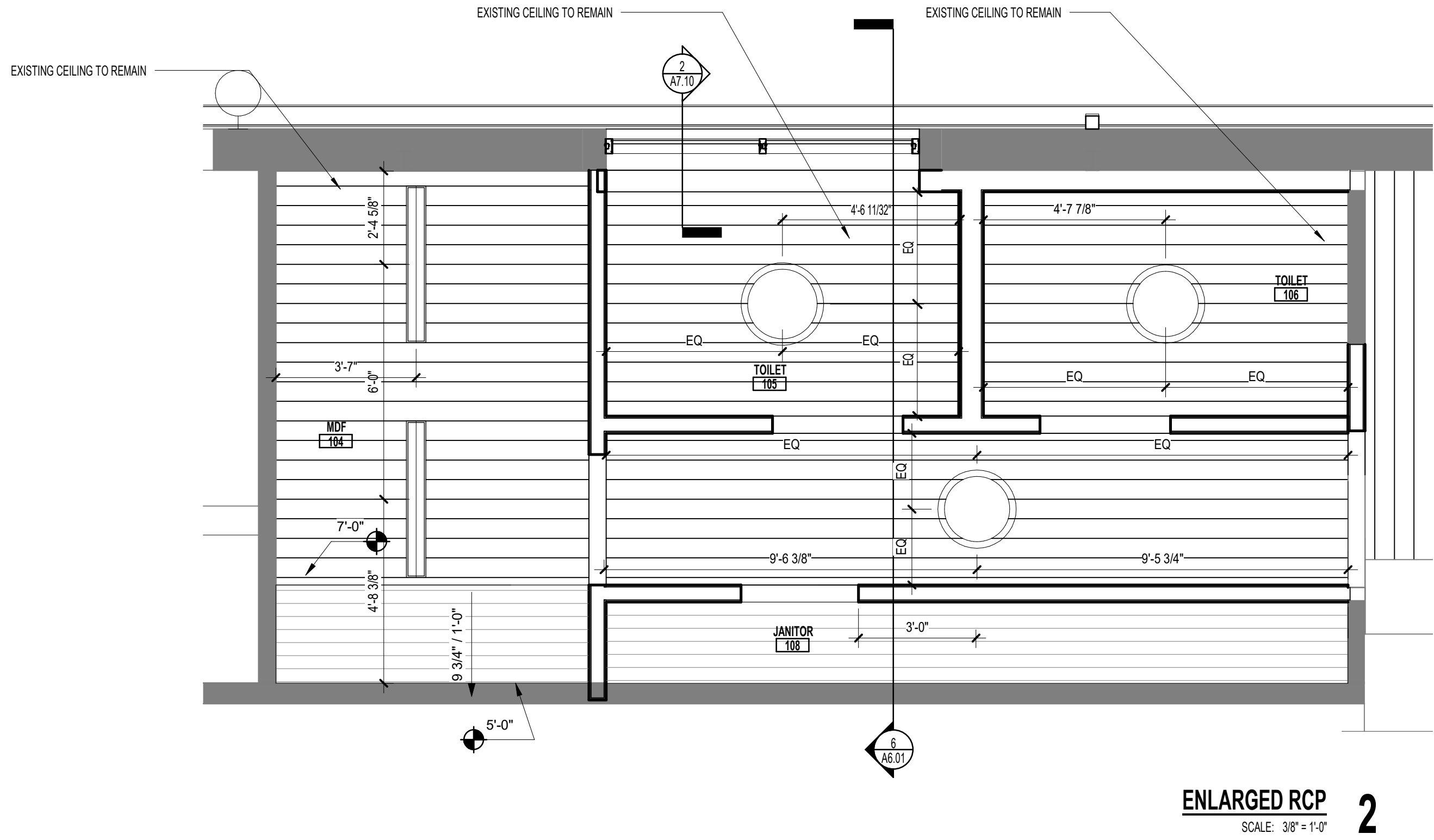
CEILING FINISH
WALL FINISH
FLOOR FINISH

* PROVIDE CONTROL JOINTS AS SHOWN. WHERE CONTROL JOINTS ARE NOT SHOWN, REFER TO STRUCTURAL DWGS. REFER TO STRUCTURAL DWGS FOR

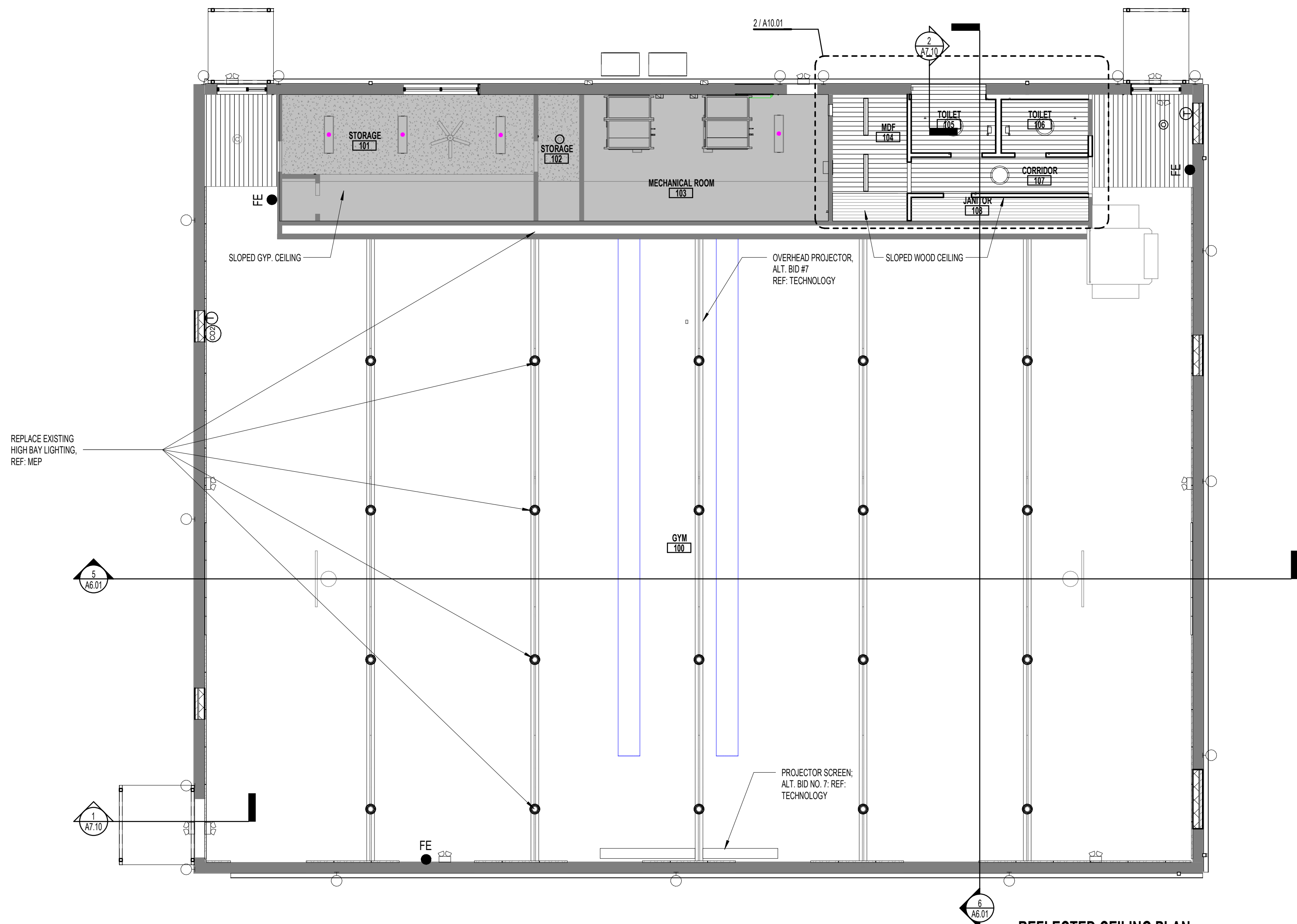
** REFER TO ROOM FINISH SCHEDULE FOR FULL LIST OF FINISH WITHIN ROOM

FLOOR TRANSITIONS

ET-5	MARBLE THRESHOLD, RE: SPECS
------	-----------------------------



ENLARGED RCP 2
SCALE: 3/8" = 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:

- REFER TO INTERIOR AND EXTERIOR ELEVATIONS FOR LIGHT FIXTURE MOUNTING HEIGHTS.
- AT AREAS WHERE CEILING IS EXPOSED - EXPOSED CONDUIT TO BE LOCATED NEATLY. ARCHITECT TO APPROVE LAYOUTS.
- COORDINATE CEILING ACCESS PANELS WITH MEP CONTRACTOR. LOCATE WHERE NECESSARY.
- 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.C.
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	REF
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 REQIRC MAIN DOWN FULL SIZE INTO ONE SIDE OF CHASE AND WILL BE CONNECTED BACK TO HOT WATER REQIRC 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-ES01 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 EHV-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: GRUNDFOF 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

pfluger

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

pflugarchitects.com

HUTTO ISD GYM RENOVATION

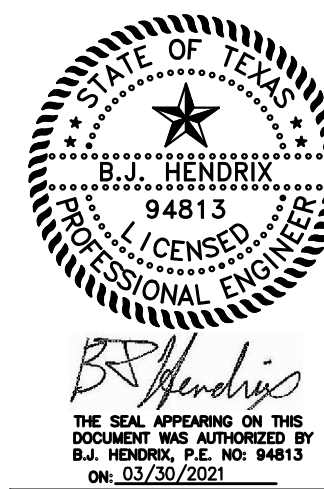
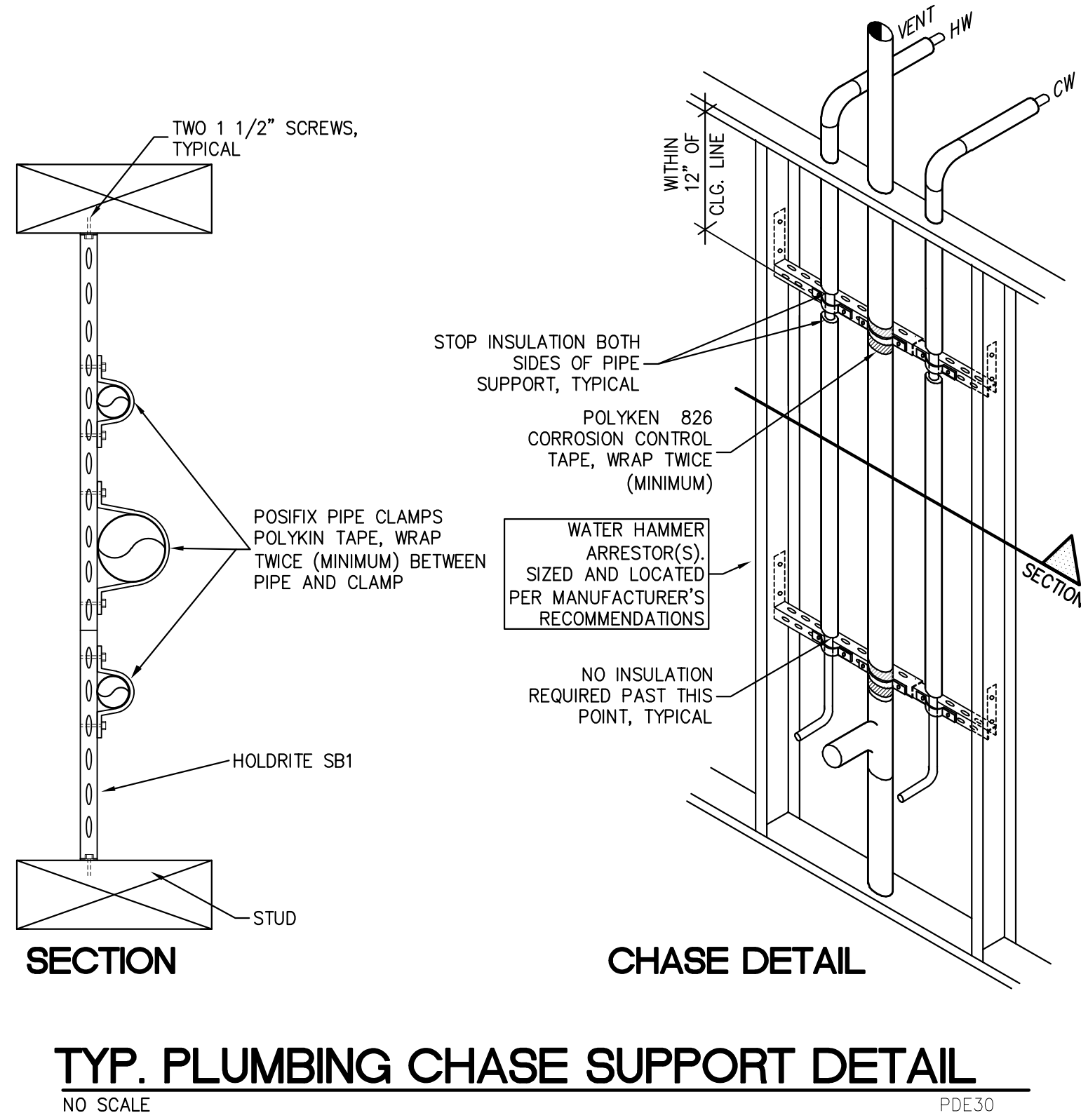
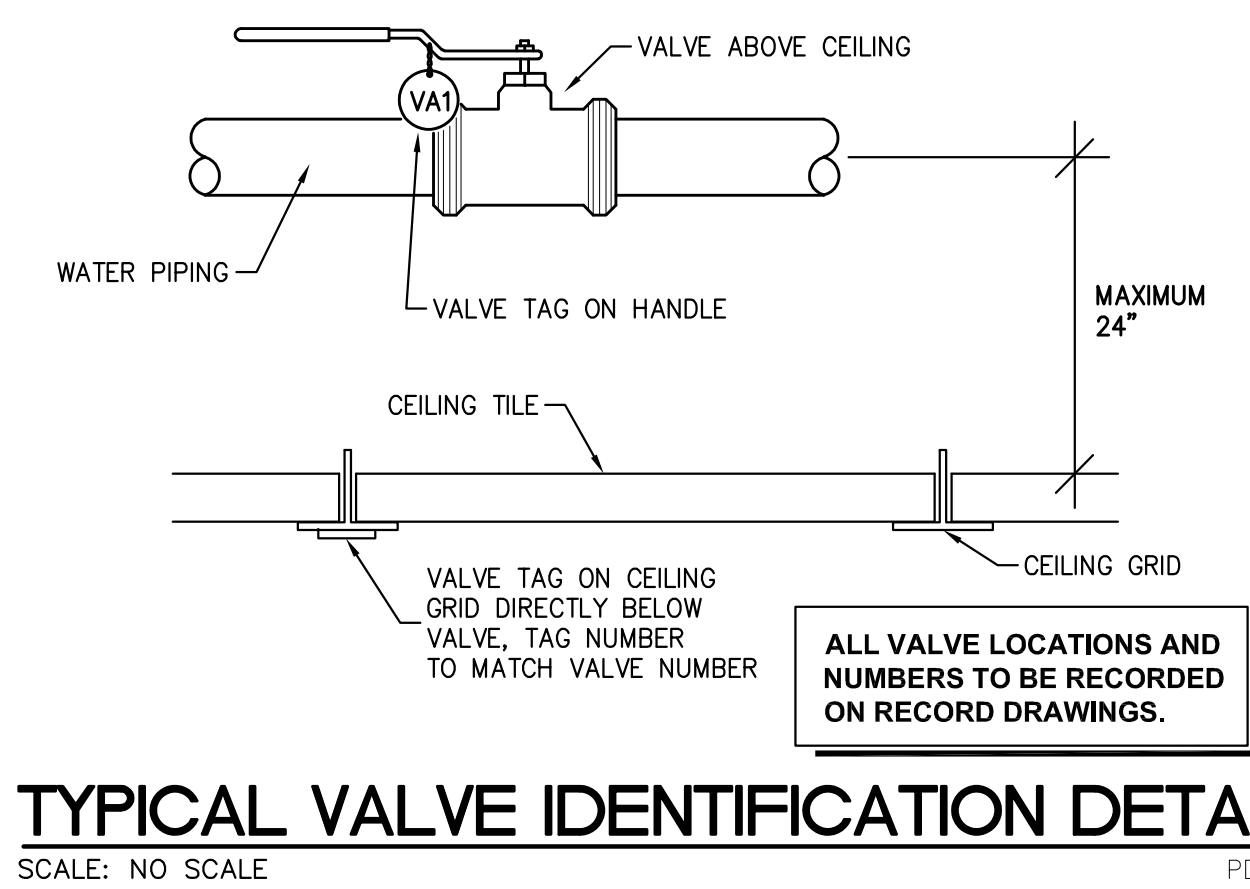
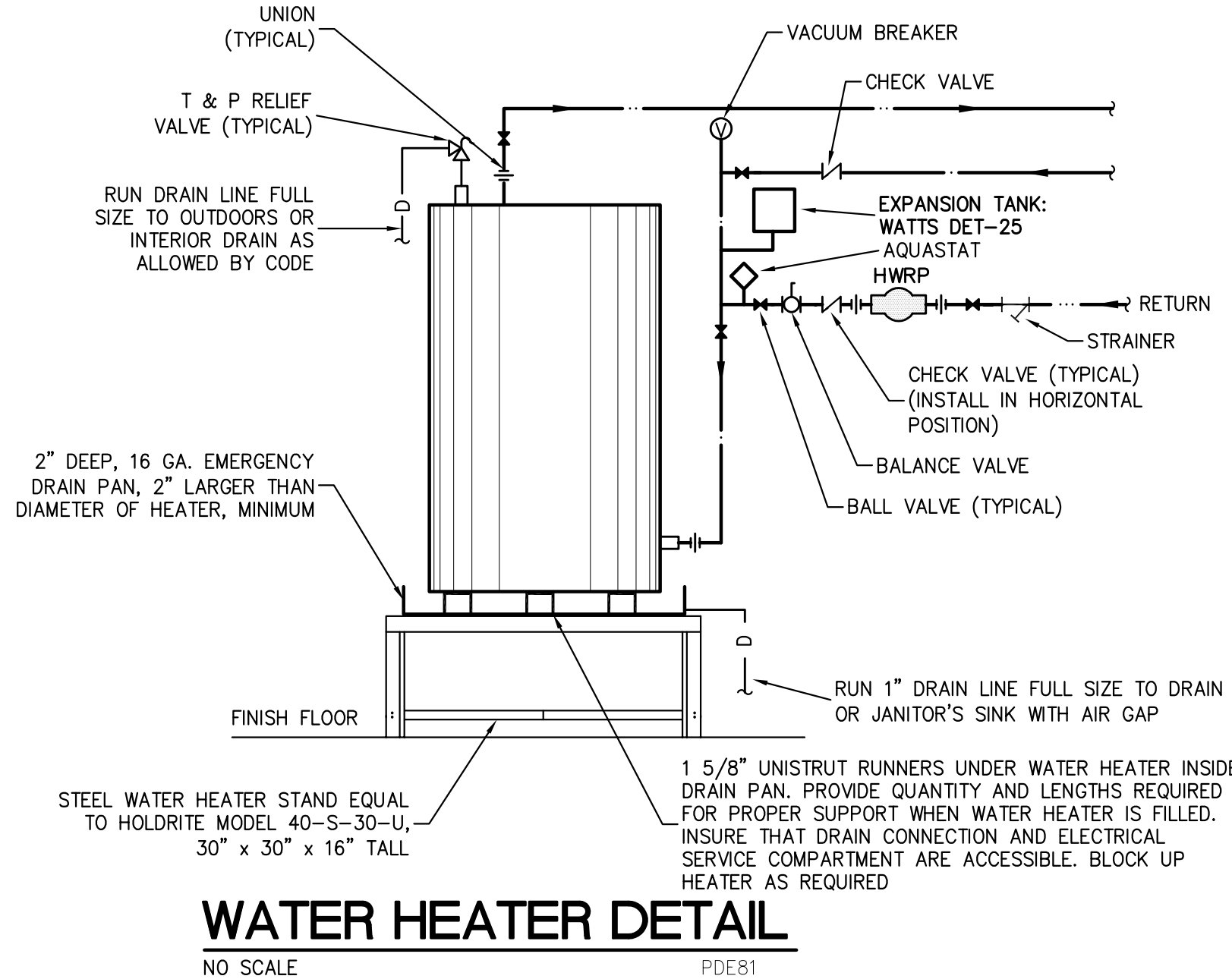
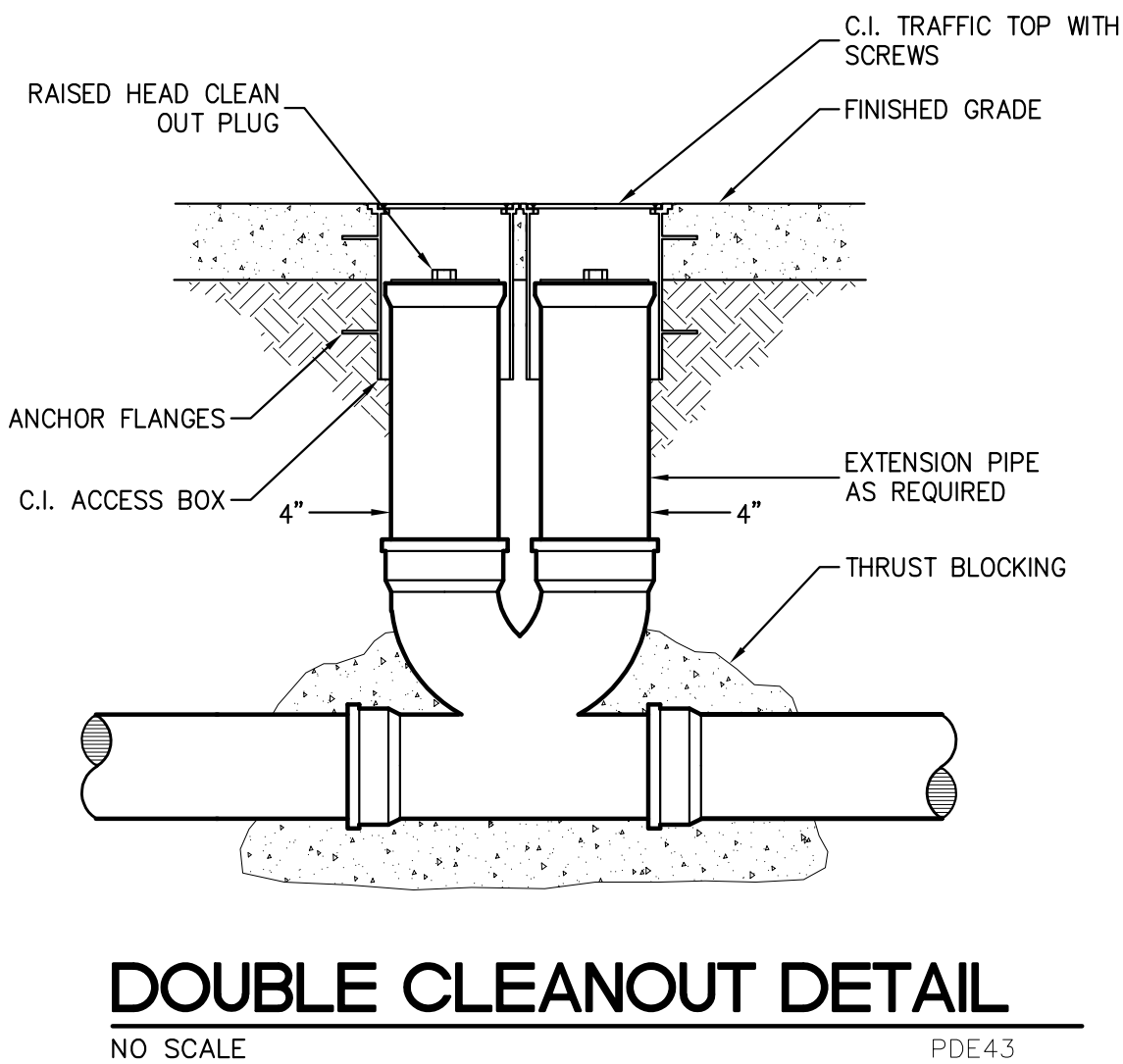
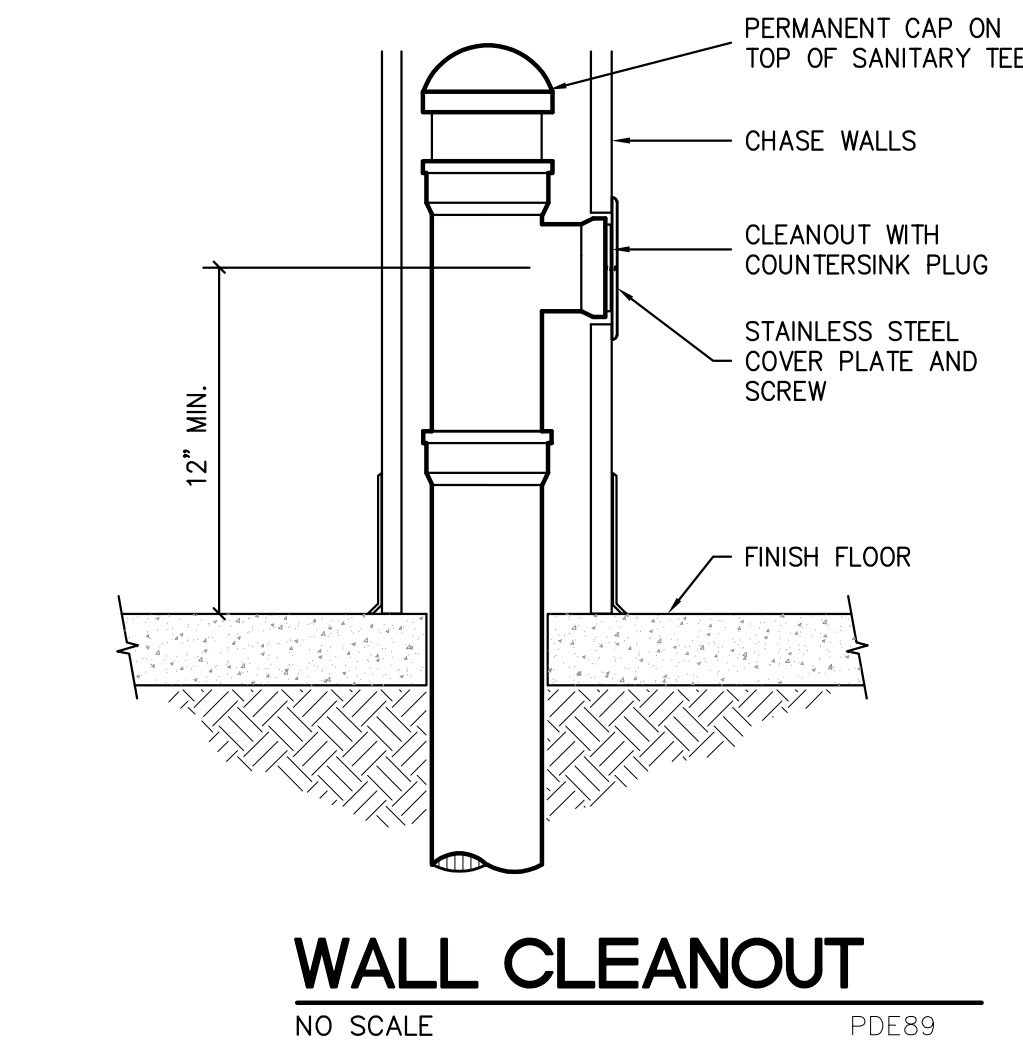
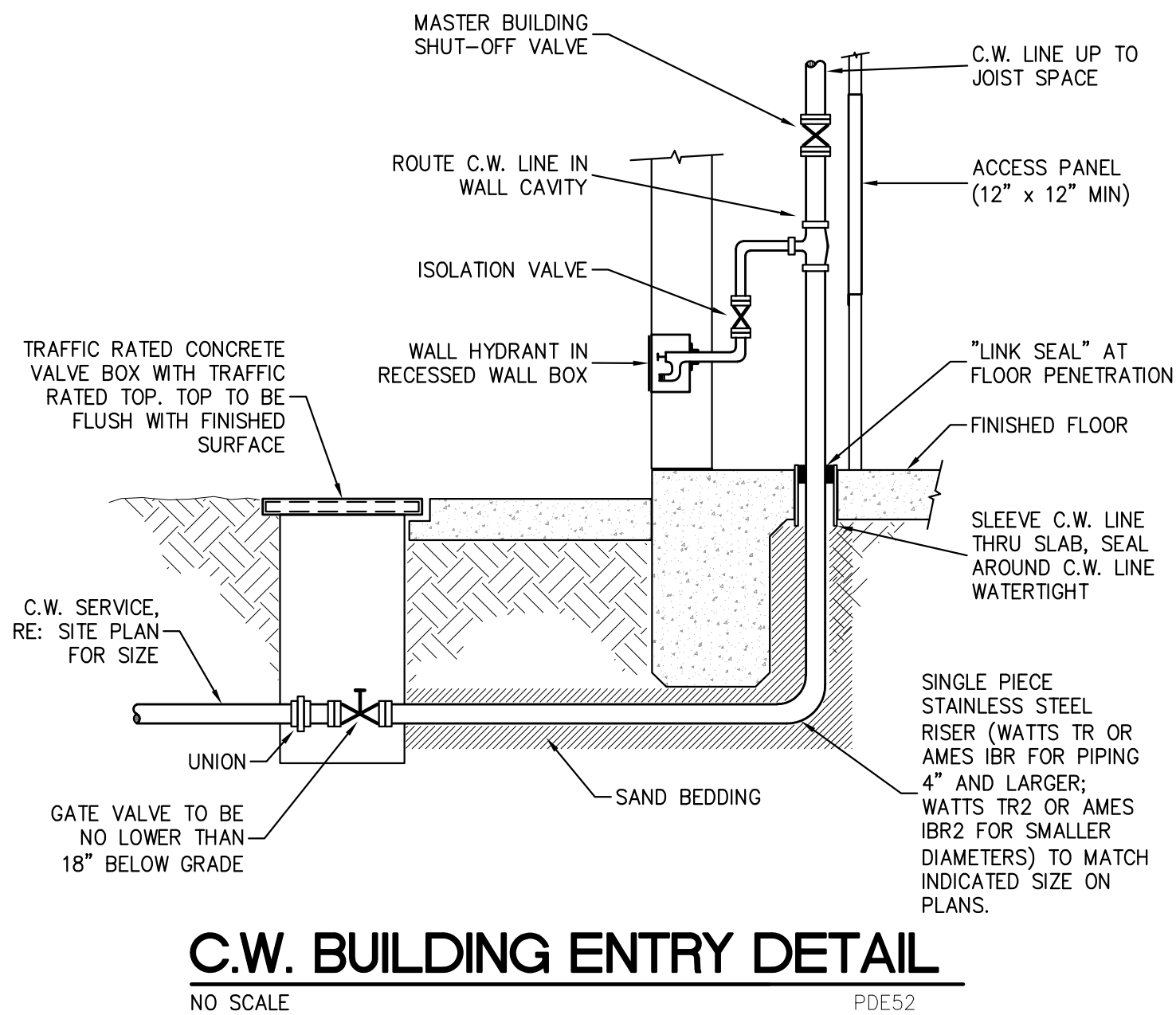
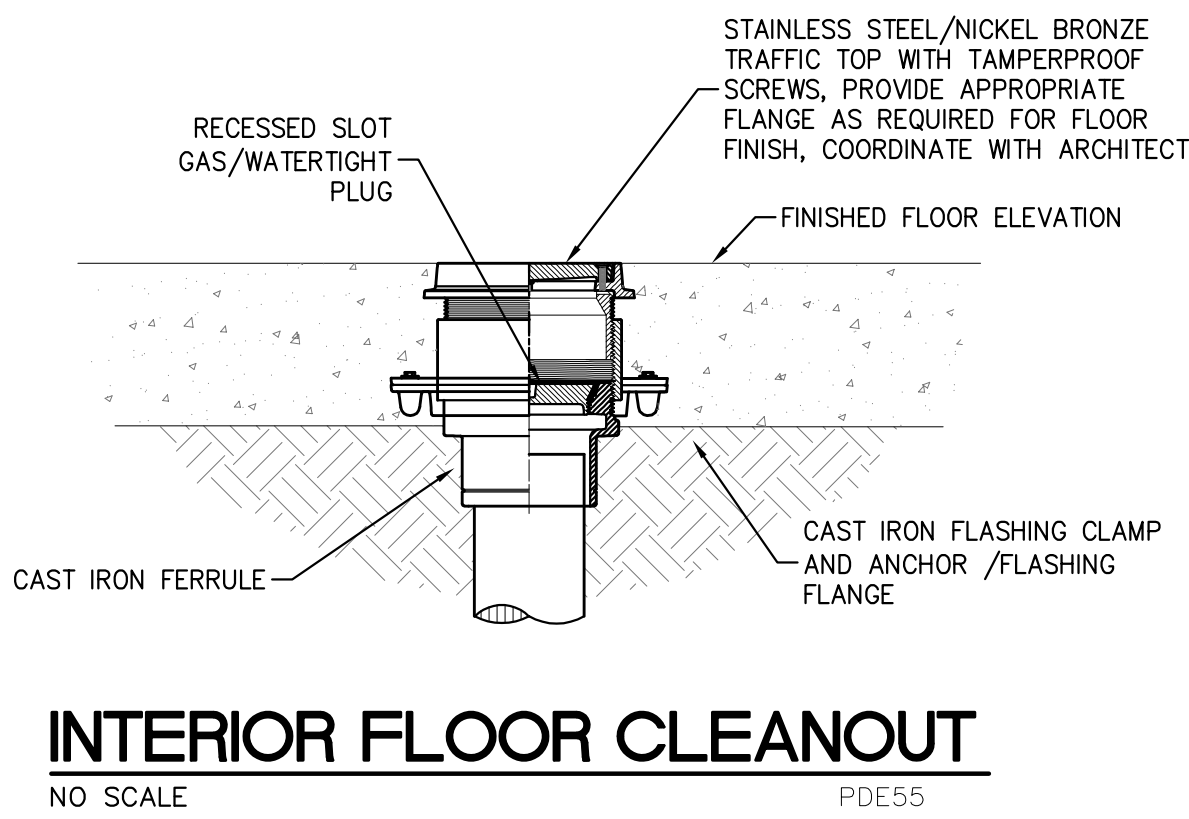
HUTTO ISD

200 COLLEGE STREET
HUTTO, TEXAS 78634

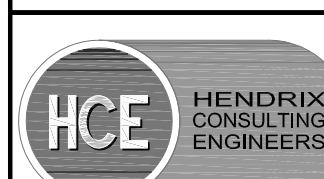
BID SET
P101
SCHEDULES NOTES
AND LEGENDS -
PLUMBING

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

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

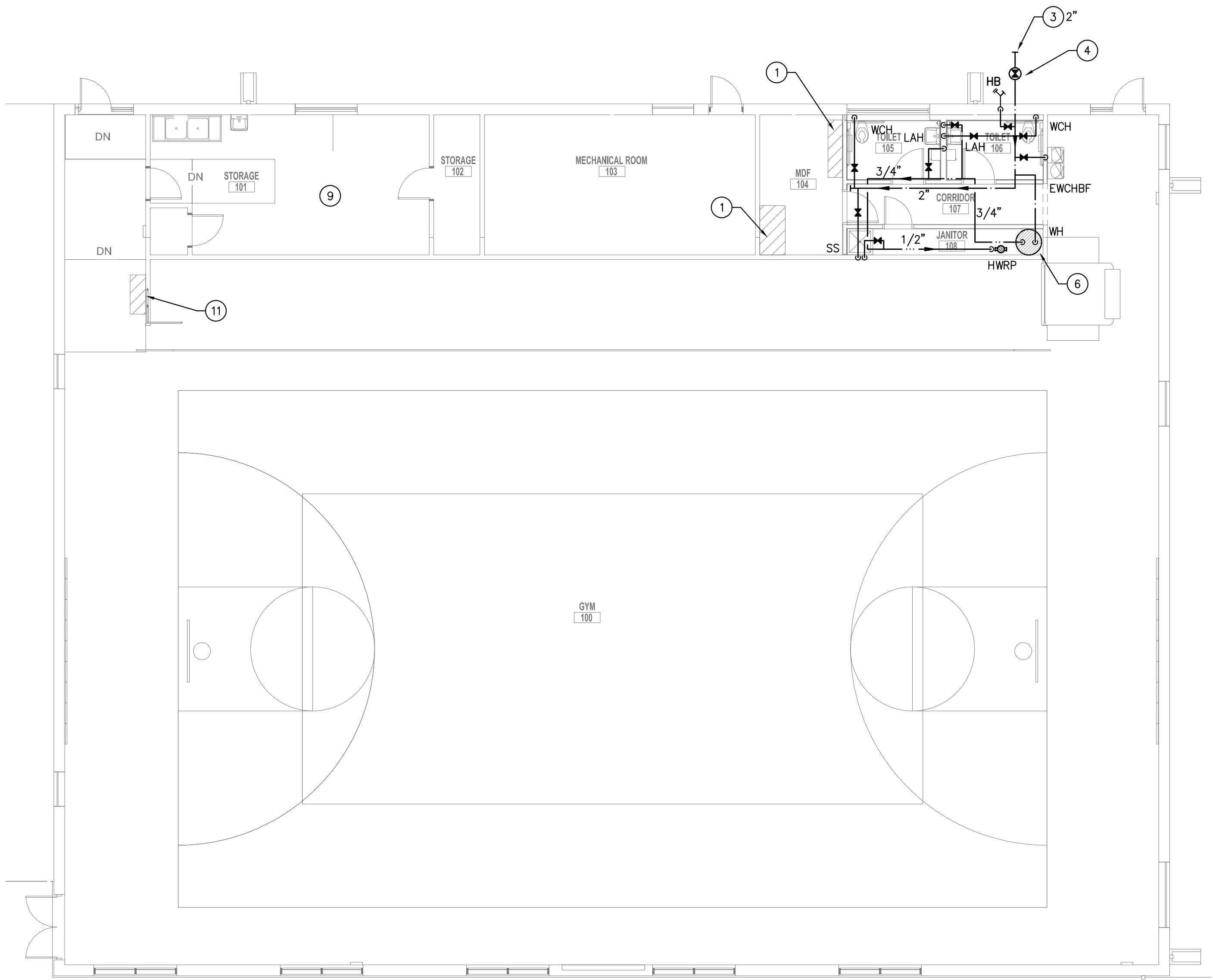
200 COLLEGE STREET
HUTTO, TEXAS 78634

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

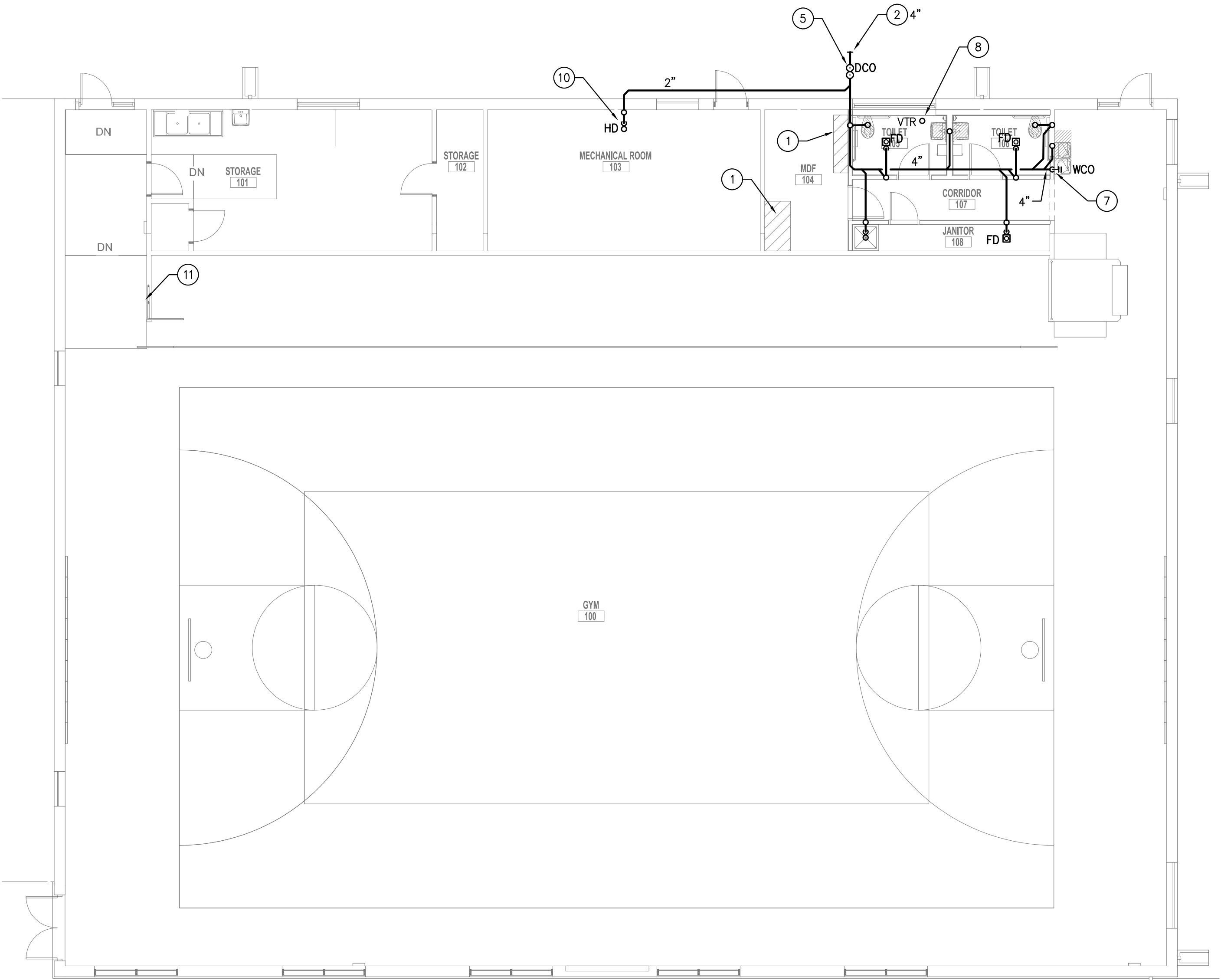
BID SET
P102
DETAILS - PLUMBING

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

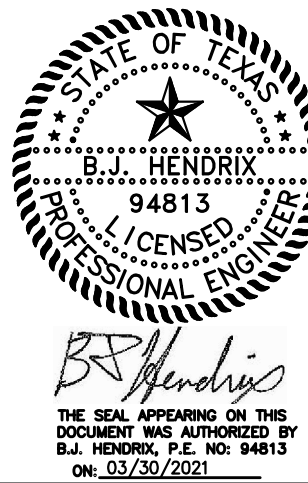
HUTTO ISD GYM RENOVATION

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 SUBMITTAL AND START-UP REQUIREMENTS

- A. 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/SETUP, CONTROL, INTEGRATION, TEST AND BALANCE 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.
- B. 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 ALL ON SITE AT THE SAME TIME, PRIOR TO FINAL ACCEPTANCE AND PAYMENT. THIS IS A NON NEGOTIABLE REQUIREMENT AND IS NOT OPTIONAL FOR ANY CONTRACTOR OR VENDOR. ALL SEQUENCES OF THE UNITS OPERATION ARE TO BE CONFIRMED WITH THE BUILDING CONTROL SYSTEM INITIATING EACH CALL. JUMPING UNIT 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 SPLITS MAKING SURE UNIT IS PHASED CORRECTLY AND ALLOWING IT TO RUN ON INTERNAL CONTROLS OR TEMPORARY CONTROLS UNTIL FINAL START UP/CONTROL INTEGRATION AND TAB 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 WITH ASSISTANCE FROM CONTRACTORS TECHNICIANS AND THE OTHERS SET UP BY CONTRACTORS TECHNICIAN. CONTROLS CONTRACTOR AND T&B 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.
- C. COMPLETED MECHANICAL/ELECTRICAL EQUIPMENT COORDINATION SHEET IN SPECIFICATION SECTION 20 00 00 TO BE FORWARDED TO GC AND ELECTRICAL CONTRACTOR FOR COORDINATION AND TO BECOME PART OF THE ELECTRICAL GEAR SUBMITTAL.
- D. 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.
- E. 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.
- F. 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.
- G. ALL SPACE SENSORS/THERMOSTATS ARE TO BE CALIBRATED SO THAT TEMPERATURE INDICATED IS WITHIN ONE DEGREE F OF ACTUAL TEMPERATURE.

M/P ABBREVIATION SCHEDULE

AD	ACCESS DOOR	MAINT	MAINTENANCE
ABV	ABOVE	MAU	MAKEUP AIR UNIT
ABF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
ARCH	ARCHITECT	MC	MECHANICAL CONTRACTOR
AUTO	AUTOMATIC	MBH	1000 BTU PER HOUR
AUX	AUXILIARY	MECH	MECHANICAL
AHU	AIR HANDLING UNIT	MANH	MANHOLE
BD	BALANCE DAMPER	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BIDG	BUILDING	MTD	MOUNTED
BOD	BOTTOM OF DUCT	MOD	MOTOR OPERATED DAMPER
BOP	BOTTOM OF PIPE	NIC	NOT IN CONTRACT
BP	BOOSTER FAN	N.O.	NORMALLY OPEN
		N.C.	NORMALLY CLOSED
		NO	NUMBER
		NTS	NOT TO SCALE
CLG	CEILING	O/A	OUTDOOR AIR
CL	CLEAN/CLEARANCE	OBD	OPPOSED BLADE DAMPER
CO	CLEANOUT	ON	ON CENTER(S)
COL	COLUMN	OPNG	OPENING
CONC	CONCRETE	ORL	OVERFLOW RAINLEADER
CONTR	CONTRACTOR	OAH	OUTSIDE AIR HOOD
CW	COLD WATER		
CONN	CONNECTION	PC	PLUMBING CONTRACTOR
COND	CONDENSING UNIT	PH	PHASE
CU	COPPER	PLBG	PLUMBING
CHS	CHILLED WATER SUPPLY		
CHR	CHILLED WATER RETURN		
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
EF	EXHAUST FAN	RHP	RADIANT HEAT PANEL
ELEC	ELECTRIC/ELECTRICAL	RL	RAINLEADER
EQ	EQUAL	RM	ROOM
EQUIP	EQUIPMENT	RTU	ROOFTOP UNIT
EX	EXISTING	S/A	SUPPLY AIR
EXH	EXHAUST	SCH	SCHEDULE
E.S.P.	EXTERNAL STATIC PRESSURE	SP	STATIC PRESSURE
ERV	ENERGY RECOVERY VENTILATOR	SPEC	SPECIFICATION
FCO	FLOOR CLEAN OUT	STD	STORM DRAIN
FCU	FAN COIL UNIT	TSP	TOTAL STATIC PRESSURE
FF	FINISHED FLOOR	TYP	TYPICAL
FLEX	FLEXIBLE		
FLR	FLOOR/FLOORING	UON	UNLESS OTHERWISE NOTED
GA	GAUGE	UG	UNDERGROUND
GC	GENERAL CONTRACTOR	UH	UNIT HEATER
GEN	GENERAL		
GYP	GYPSPUM BOARD	V	VENT (PLUMBING)
		V	VOLTAGE (ELECTRICAL)
		VTR	VENT THROUGH ROOF
HP	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 CIRC	WTR	WATER
HR	HOUR	WW	WASTE WATER
HWR	HEATING WATER RETURN	WCO	WALL CLEANDOUT
HWS	HEATING WATER SUPPLY	WH	WATER HEATER
LOC	LOCATION		

MECHANICAL LEGEND

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
	SA	LONG RADIUS 90° ELBOW
	SA	BRANCH TAKE-OFF WITH DAMPER
	SA	RADIUS DUCT SPLIT W/LOOKING SPLITTER DAMPER
		CEILING SUPPLY AIR DEVICE
		CEILING RETURN OR EXHAUST DEVICE
	D	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)
	AD	DUCT ACCESS DOOR

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 CURRENT APPLICABLE LOCAL, STATE AND FEDERAL CODES AND ORDINANCES. FOLLOW RECOMMENDED PRACTICES AS SET DOWN BY ASME, SMACNA, ASHRAE, NFPA, APPLICABLE BUILDING 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 ADOPTED 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, 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" ARMAFLEX 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 DUSTLOK 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 2000 CFM OR SERVING EGRESS PATHWAYS SHALL HAVE SMOKE DETECTORS LOCATED IN RETURN AND DISCHARGE AIR DUCTS, AS REQUIRED BY CODE AND LOCAL AHA. 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 DUCTMATE 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.I. 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 DUSTLOC 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 NEAR CONDITION BEFORE FINAL PAYMENT WILL BE APPROVED. 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 T&B PROCEDURES. WHEN T&B IS DONE BY OTHERS (SUBCONTRACTED BY MECHANICAL OR HIRED BY OTHERS), MECHANICAL CONTRACTOR IS TO WORK WITH AND FACILITATE T&B WORK AND MAKE ALL REPAIRS ETC AS NOTED BY T&B FIRM PROMPTLY SO THAT T&B CAN BE SUCCESSFULLY COMPLETED.

FAN SCHEDULE

MARK NO.	GREENWICK MODEL NO.	CFM	S.P.	RPM	DRIVE	H.P.	VOLT/PH	WATTS OR AMPS	ACCESSORIES
EF-1	SP-A50	75	.05	700	DIRECT	.025	115/1	18W	12.6
EF-2	SP-A50	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

- A. BALANCE ALL FANS TO ACTUAL CFM SHOWN ON FLOOR PLANS.
- B. BEE SCREEN.
- C. 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. CURB IS TO EXTEND A MINIMUM OF 12" ABOVE FINISHED ROOF ON SHORT SIDE.
- D. 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. CURB IS TO EXTEND A MINIMUM OF 12" ABOVE FINISHED ROOF ON SHORT SIDE.
- E. FACTORY DISCONNECT.
- F. 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 NOTED OTHERWISE. ELECTRICAL CONTRACTOR TO THE DAMPER ACTUATOR IN TO FAN POWER. PROVIDE TIME DELAY RELAY OR END SWITCH ONLY IF RECOMMENDED BY MANUFACTURER ON LARGER FANS. PROVIDE TRANSFORMER IF REQUIRED. MOTORIZED DAMPER NOT REQUIRED IF THE FAN HAS AN INTEGRAL BACKDRAFT DAMPER.
- G. UNIT WEIGHT LESS THAN 100 LBS. UNLESS NOTED OTHERWISE.
- H. COORDINATE ALL FINAL FAN LOCATIONS AND FRAMING WITH STRUCTURAL.
- I. ALL ALTERNATE MANUFACTURER'S FANS MUST OPERATE WITH CFM, RPM AND HP RANGE AS FANS LISTED ABOVE TO ALLOW FLEXIBILITY. FANS MAY NOT BE DOWN SIZED.
- J. FAN SPEED CONTROL (MOUNTED UNDER DOME ON ROOF FANS OR NEXT TO CABINET FANS FOR ALL DIRECT DRIVE FANS). DUCT DROPS ARE TO BE FULL SIZE OF DAMPER OR SIZED AT .05" SP PER 100 FT WHICHEVER IS GREATER OR AS SPECIFICALLY NOTED.
- K. POWDER COATED METAL IS NOT ALLOWED TO BE USED IN LIEU OF GALVANIZED UNLESS SPECIFICALLY SCHEDULED.
- M. EXHAUST FANS / OUTLETS TO BE LOCATED A MINIMUM OF 10' AWAY FROM OUTSIDE AIR INTAKES OR AS REQUIRED BY LOCAL CODES.

ACCESSORIES AND NOTES (ONLY PROVIDE ACCESSORIES LISTED IN SCHEDULE ABOVE)

1. UPBLAST GREASE FAN ACCESSORIES: FAN TO BE UL AND CUL 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 A 40" DISCHARGE HEIGHT), PROVIDE WITH SEPARATE CURB FROM ANY SUPPLY FAN.
2. KITCHEN SUPPLY FAN GREENWICK ARRANGEMENT "DB" ACCESSORIES: EXHAUST FAN AND SUPPLY FAN TO BE MOUNTED ON SEPARATE CURBS AND BEING MOUNTED IN EQUIPMENT SUPPORT RAIL WITH GALVANIZED UNISTRUT SUPPORT FOR WEATHER HOOD, 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, DISCONNECTS, CONTROL TRANSFORMERS, AND SINGLE POINT ELECTRICAL CONNECTION. ELECTRICAL CONTRACTOR TO 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 CIRCUIT. PROVIDE HOOD MOUNTED SWITCH FOR CONTROL OF EXHAUST AND SUPPLY FANS OR AS DIRECTED BY OWNER.
3. DIRECT FIRED GAS HEAT.
4. ELECTRIC HEAT.
5. PERFORATED BAFFLE INSTALLED AT INLET.
6. GRAVITY BACK DRAFT DAMPER.
7. RADIATION DAMPER (CEILING MOUNTED FANS).
8. COMBINATION NEOPRENE / SPRING VIBRATION ISOLATION.
9. INLET GUARD.
10. BELT GUARD.
11. MAGNETIC MOTOR STARTER.
12. SWITCHED WITH LIGHTS BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE ALL RELAYS AND APPURTENANCES.
13. SWITCHED BY SPRING WOUND TIMER (1 HR MAX) PROVIDED BY ELECTRICAL CONTRACTOR. LOCATE NEXT TO ROOM LIGHT SWITCH UNLESS OTHERWISE NOTED.
14. SWITCHED BY WALL SWITCH WITH PILOT LIGHT BY ELECTRICAL CONTRACTOR. LOCATE NEXT TO ROOM LIGHT SWITCH UNLESS OTHERWISE NOTED.
15. SWITCHED BY HOOD MOUNTED SWITCH WITH PILOT LIGHT BY ELECTRICAL CONTRACTOR.
16. SWITCHED BY THERMOSTAT. THERMOSTAT PROVIDED BY MECHANICAL CONTRACTOR. INSTALLED BY ELECTRICAL CONTRACTOR.
17. CONTROLLED BY ENERGY MANAGEMENT SYSTEM.
18. 120V/1PH MOTORIZED DAMPER FOR INLINE FAN TIED IN TO FAN POWER.
19. EXPLOSION PROOF FAN. WIRE TO RUN CONTINUOUSLY.
20. PERFORATED BAFFLE INSTALLED AT INLET.
21. INTERLOCKED WITH DISHWASHER.
22. DRYER BOOSTER FAN. PROVIDE ALL CONTROLS AND INTERLOCKING WIRING REQUIRED FOR A COMPLETE OPERABLE SYSTEM.
23. SIDEWALL PROPELLER FAN PROVIDE WITH HOUSING, MOTORIZED BACKDRAFT DAMPER, INTEGRAL DISCONNECT, MOTOR SIDE GUARD AND TEST SWITCH AND WIRE AS REQUIRED TO CONNECT TO WALL LOUVER.
24. 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.

AIR DEVICE SCHEDULE

MARK	NECK SIZE	FRAME SIZE	FRAME TYPE	VOLUME DAMPER	SUPPLY	RETURN	EXHAUST	MODEL	FLEX SIZE	MAXIMUM CFM
C1	6 x 6	15 x 15	SURFACE	-	●	-	-	PRICE MODEL SMD	6"φ	100
C2	12 x 12	18 x 18	SURFACE	-	●	-	-	PRICE MODEL SMD	8"φ	220
C3	12 x 12	18 x 18	SURFACE	-	●	-	-	PRICE MODEL SMD	10"φ	350
U1	8 x 8	10 x 10	SURFACE	-	-	●	-	PRICE MODEL 630	9"φ	250
U2	12 x 12	14 x 14	SURFACE	-	-	●	-	PRICE MODEL 630	12"φ	450

NOTES:

1. COORDINATE EXACT LOCATION OF DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
2. ALL SUPPLY DIFFUSERS SHALL BE 4-WAY THROW UNLESS NOTED OTHERWISE.
3. ALL FLEX SHALL BE SIZED AS SCHEDULED UNLESS NOTED OTHERWISE.
4. ALL DIFFUSERS SHALL BE WHITE UNLESS NOTED OTHERWISE. COORDINATE EXACT COLOR/FINISH WITH ARCHITECT.
5. VERIFY FRAME TYPE WITH ACTUAL CEILING TYPE PRIOR TO PURCHASE OF AIR DEVICES.
6. ALL VOLUME DAMPERS SHALL BE OPPOSED BLADE TYPE.
7. 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.
8. INSULATE BACKS OF ALL AIR DEVICES.
9. PROVIDE PRICE PLASTER FRAME FOR ALL AIR DEVICES LOCATED IN GYP OR PLASTER CEILINGS.
10. 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.
11. TRANSITION TO AIR DEVICE NECK SIZE AS REQUIRED.
12. ALL LAY-IN 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.

pfluger

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

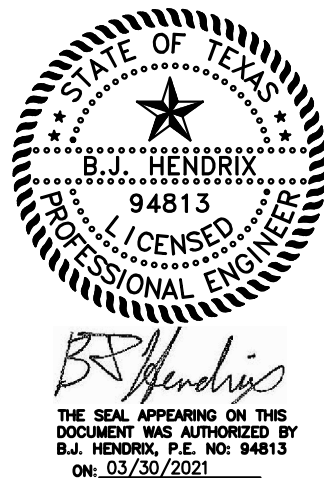
HUTTO ISD GYM RENOVATION

200 COLLEGE STREET HUTTO, TX 78634

HUTTO ISD

200 COLLEGE STREET
HUTTO, TEXAS 78634

PROJECT NO. 26474
DATE: 3/30/2020
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. P-4095
HCE job no.: 20-074

BID SET
M101
SCHEDULES NOTES
AND LEGENDS -
MECHANICAL

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

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 BRCL173 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

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

pflugerarchitects.com

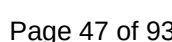
HUTTO ISD GYM RENOVATION

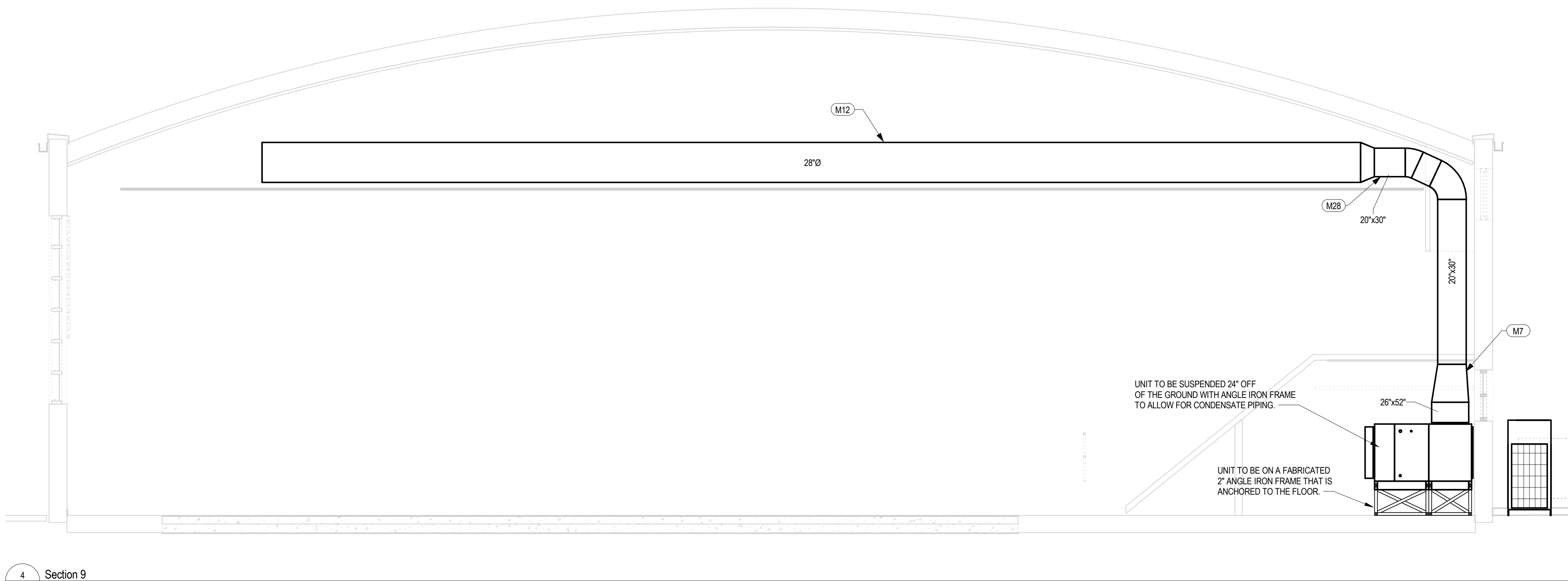
HUTTO ISD

200 COLLEGE STREET
HUTTO, TEXAS 78634

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

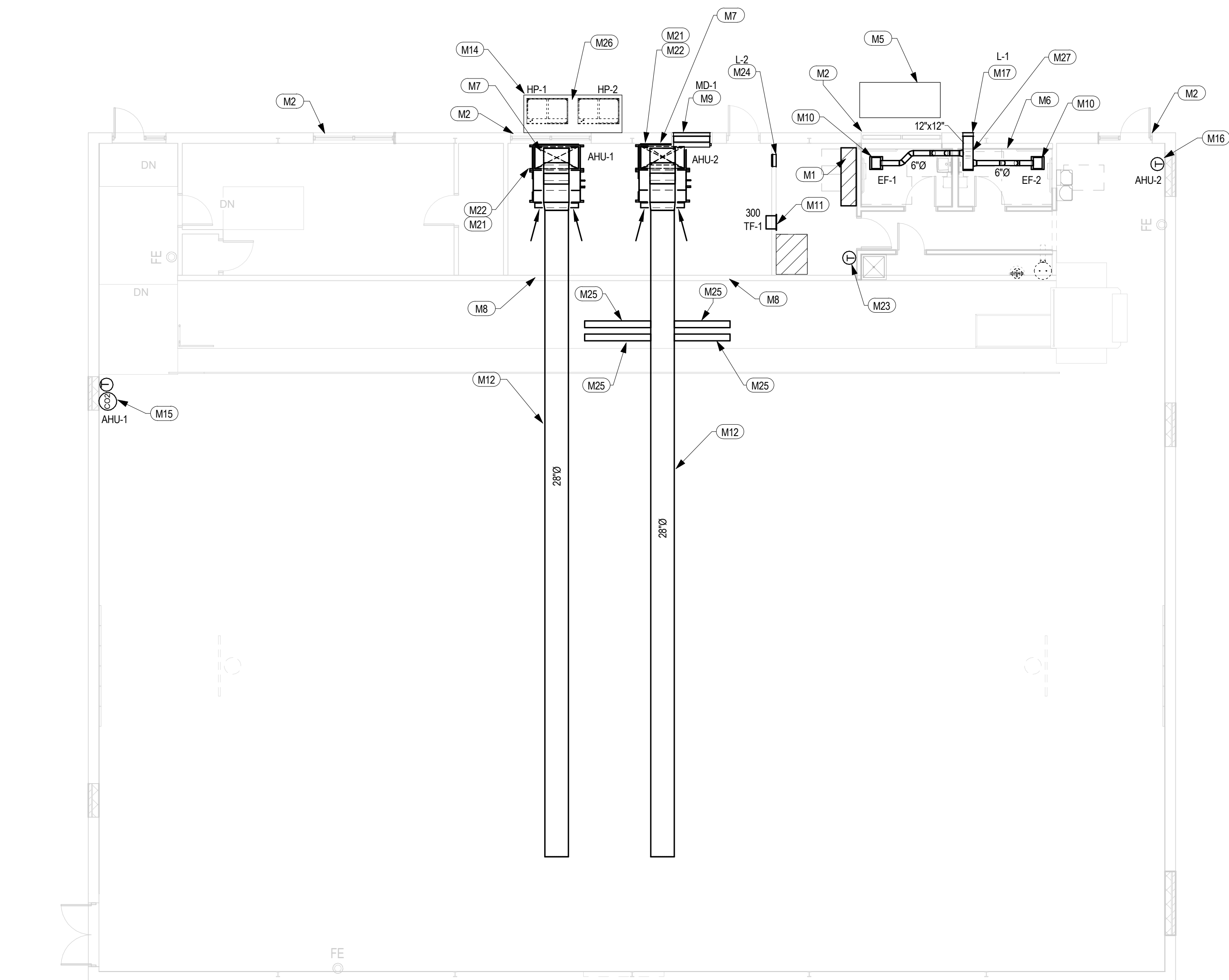
BID SET
M102
SCHEDULES - MECHANICAL





4 Section 9
M201 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 LEVEL 1 HVAC PLAN
M201 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

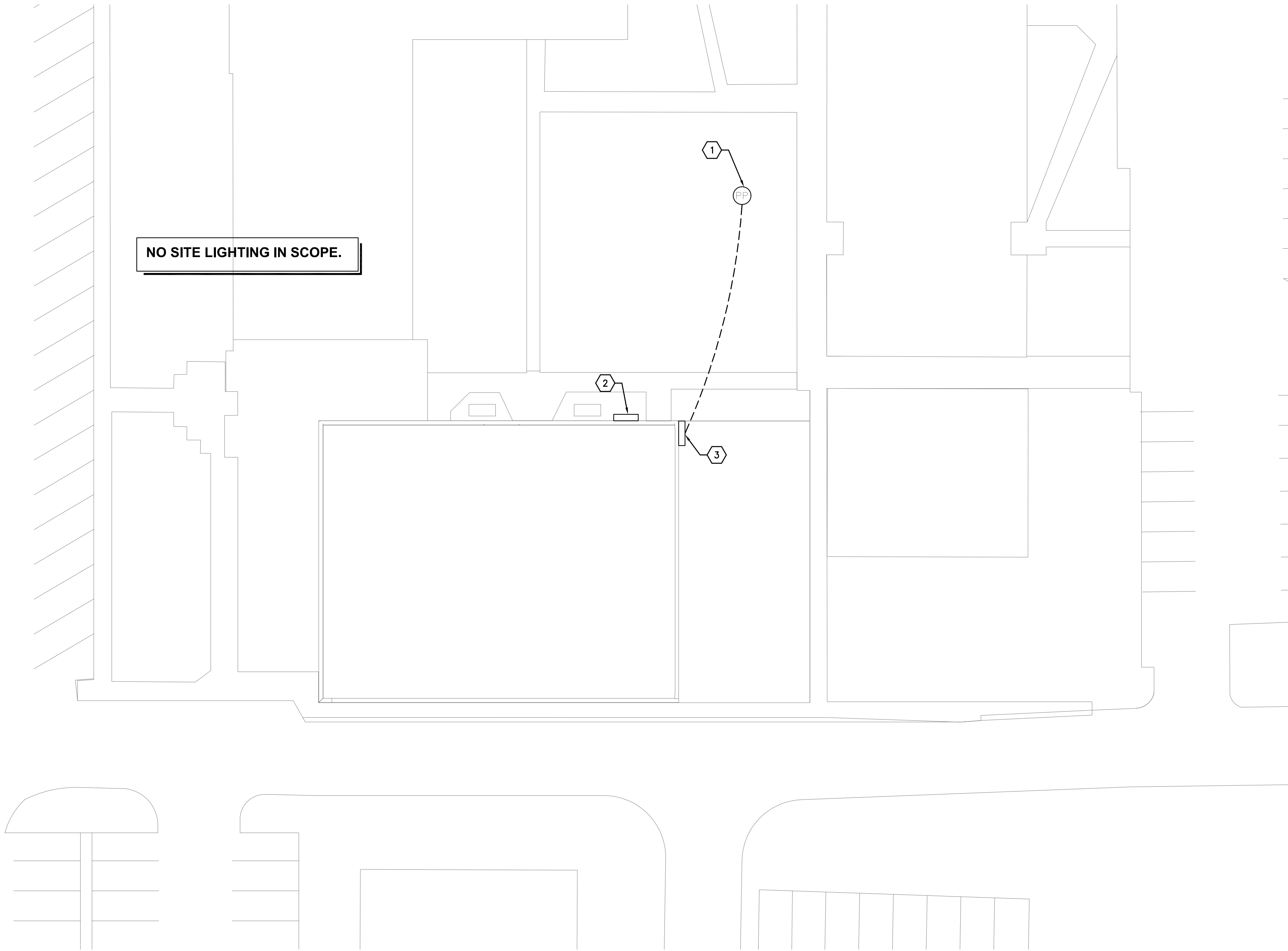
BID SET
M201
LEVEL 1 MECHANICAL
PLAN

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"

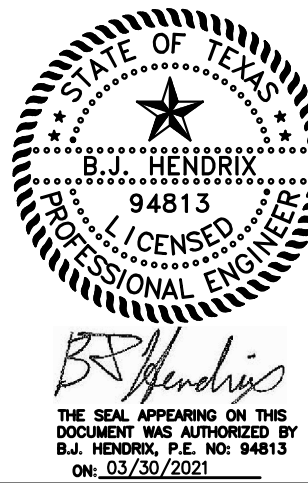


KEYED NOTES

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
pflugararchitects.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	GFI18ST20W
	DUPLEX RECEPTACLE 20A/120V 18" AFF UON WITH ISOLATED/INSULATED GROUND	IG5352WTR
	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	GFI18ST20W/ WP26M
	8" ABOVE COUNTER - GFI	
	SAFETY TYPE DUPLEX RECEPTACLE 20A/120V 18" AFF UON	CR20WHTR
	DUPLEX RECEPTACLE, FLOOR MOUNTED FLUSH	CR20WHTR,PFBG1 SB3083,S3825 OR FOR POKE THRU, CR20WHTR,SIR4PTFT SIR4SPDUPLEX,SIR4CVR
	FOURPLEX RECEPTACLE, FLOOR MOUNTED FLUSH	(2) CR20WHTR,PFBG2 SB3084,(2)S3825 OR FOR POKE THRU, (2) CR20WHTR,SIR6PTFT SIR6SPDUPLEX,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.	LLG	(33)	3/4, 1#8G, 1" C.	LLNG
(3)	2#12, 1#12G, 1/2" C.	LLG	(34)	3/4, 1#8G, 1" C.	LLG
(4)	3#12, 1/2" C.	LL	(35)	4#4, 1#8G, 1 1/4" C.	LLNG
(5)	3#12, 1#12G, 1/2" C.	LLNG	(36)	2#2, 1#4G, 1 1/2" C.	LLG
(6)	3#12, 1#12G, 1/2" C.	LLG	(37)	2#3, 1#8G, 1" C.	LN
(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.	LL
(9)	2#10, 1#10G, 1/2" C.	LLG	(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.	LLG
(11)	3#10, 1/2" C.	LL	(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.	LLG	(44)	2#2, 1#8G, 1" C.	LN
(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.	LL
(16)	2#8, 1#10G, 3/4" C.	LLG	(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.	LL	(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.	LLG	(51)	2#1, 1#6G, 1 1/4" C.	LN
(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.	LL
(23)	2#6, 1#10G, 3/4" C.	LLG	(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.	LL	(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.	LLG	(58)	2#1/0, 1#6G, 1 1/2" C.	LN
(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.	LL
(30)	2#4, 1#8G, 1" C.	LLG	(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.	LLG

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
CK	CLOCK	NTS	NOT TO SCALE
COL	COLUMN	OC	ON CENTER(S)
COMP	CONCRETE	OE	OVERHEAD ELECTRIC
CONST	CONSTRUCTION	OH	OVERHEAD
CONTR	CONTRACTOR	PL	PLUMBING CONTRACTOR
CTV	CABLE TELEVISION	PH	PHONE
DWG	DRAWING	PNC	POLYVINYL CHLORIDE
EF	EXHAUST FAN	RE	REFERENCE/REFER TO
DN	DOWN	RECP	RECEPTACLE
ELEC	ELECTRIC/ELECTRICAL	RIG	RIGID GALVANIZED STEEL CONDUIT
EMT	ELECTRICAL METALLIC TUBING	RM	ROOM
EQUIP	EQUIPMENT	SCH	SCHEDULE
EX	EXISTING	SPD	SURGE PROTECTIVE DEVICE
FA	FIRE ALARM	SPEC	SPECIFICATIONS
FLR	FLOOR/FLOORING	TEL	TELEPHONE
FLR	FLOOR/FLOORING	TTB	TELEPHONE TERMINAL BOARD
GC	GROUND	UC	UNDERGROUND CONDUIT
GFI	GROUND FAULT INTERRUPT	UE	UNDERGROUND ELECTRIC
HP	HORSEPOWER	UN	UNDERGROUND
IMC	INTERMEDIATE METAL CONDUIT	UT	UNDERGROUND TELEPHONE
KVA	KILOVOLT-AMPERES	VOLTS	VOLTS
KW	KILOWATTS	VA	VOLT-AMPERES
LGT	LIGHTING	W	WITH
MAX	MAXIMUM	W/O	WITHOUT
MC	MECHANICAL CONTRACTOR	WP	WEATHER PROOF
MCB	MAIN CIRCUIT BREAKER	XFMR	TRANSFORMER
MDP	MAIN DISTRIBUTION PANEL		

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	

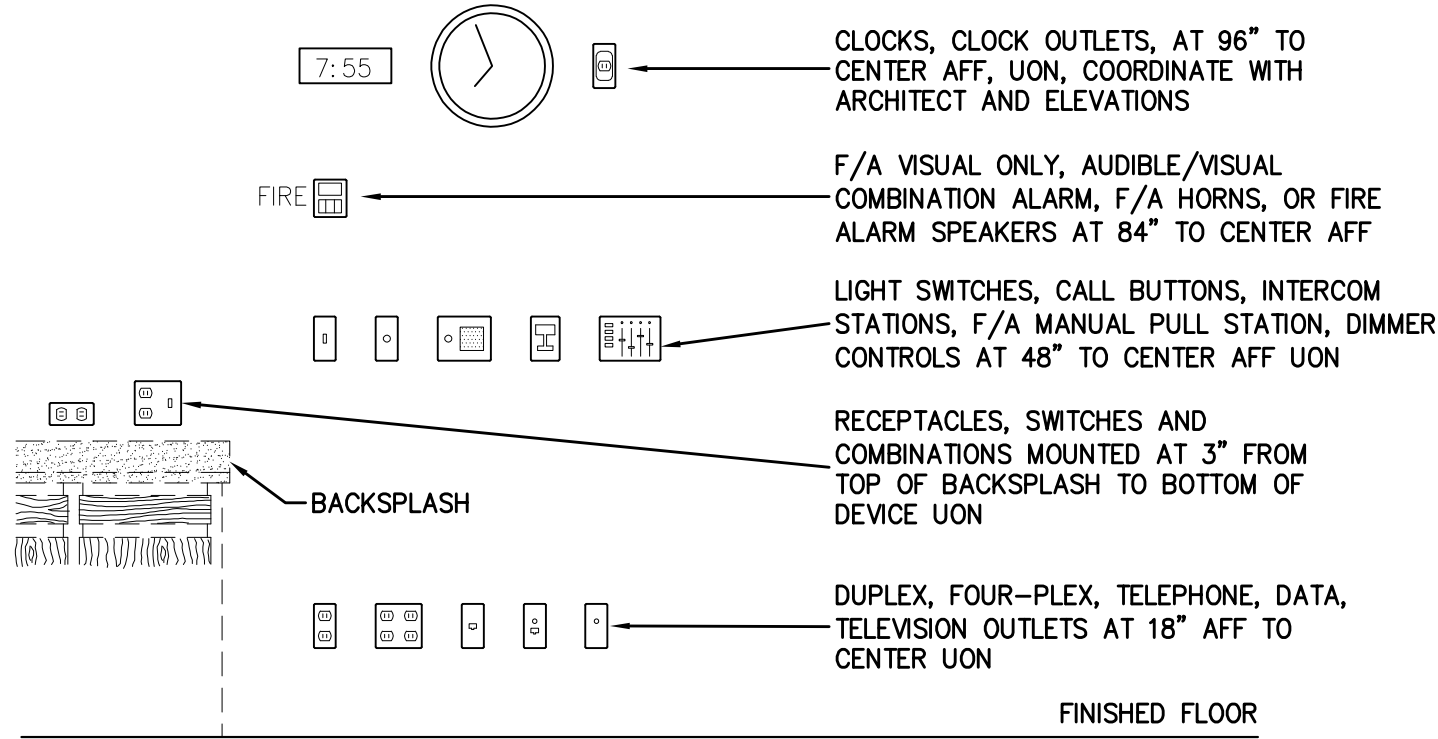
SPECIAL SYSTEMS SCOPE	
ACCESS CONTROL SYSTEM 1. REFERENCE TECHNOLOGY SHEETS.	
SECURITY SYSTEM 1. REFERENCE TECHNOLOGY SHEETS.	
TELEPHONE SYSTEM 1. REFERENCE TECHNOLOGY SHEETS.	
INTERCOM SYSTEM 1. REFERENCE TECHNOLOGY SHEETS.	
FIRE ALARM SYSTEM 1. NONE REQUIRED.	
AUDIO-VIDEO SYSTEM 1. REFERENCE TECHNOLOGY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

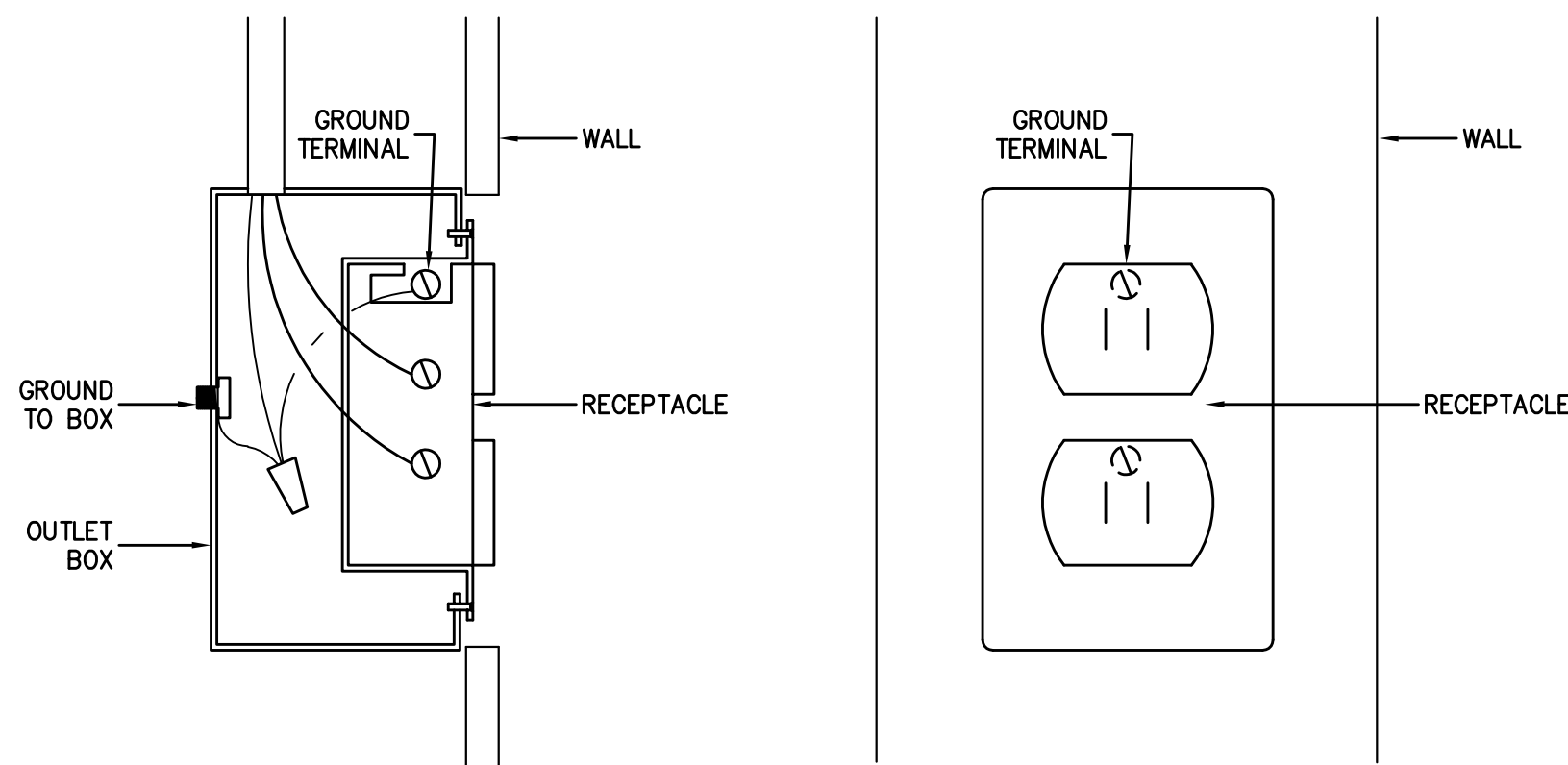
A.	THE CONTRACTOR IS TO VISIT THE SITE PRIOR TO BID TO FAMILIARIZE HIMSELF WITH ALL CONDITIONS AS THEY EXIST. SUBMISSION OF BID INDICATES THE CONTRACTOR'S UNDERSTANDING OF EXISTING CONDITIONS AND HIS WILLINGNESS TO WORK WITH THESE CONDITIONS. NO ADDITIONAL TIME OR MONEY WILL BE ALLOTTED DUE TO LACK OF 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 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 8 RECEPTACLES OR RUN TO NEAREST PANELBOARD AND PROVIDE HOMERUN WITH NEW 20 AMP CIRCUIT BREAKER.



MOUNTING HEIGHT DETAIL

NO SCALE

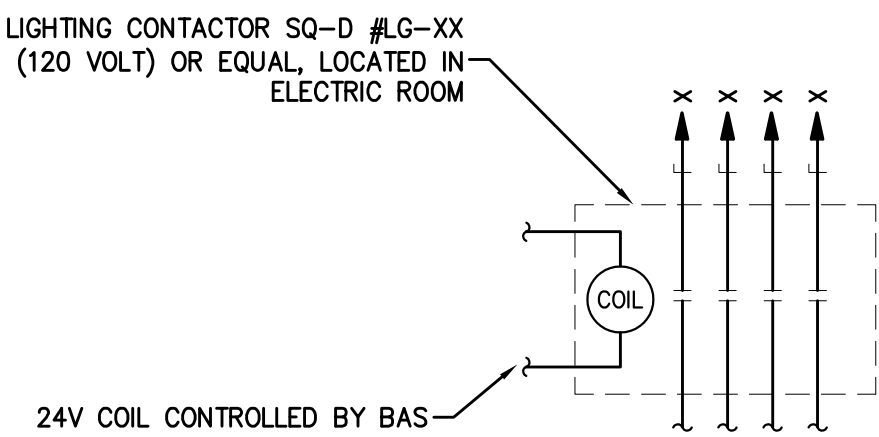
EDE-10



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	MMVOLT/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	MMVOLT/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	MMVOLT/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	MMVOLT/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	MMVOLT/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	MMVOLT/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 JEBL-30L-40K-80CRI-WH	1/31,588 LUMENS/218	MMVOLT/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	MMVOLT/5	LED SINGLE FACE EXIT SIGN WITH DIE CAST ALUMINUM HOUSING, EMERGENCY BATTERY PACK. WHITE FINISH.
X2	LITHONIA LOC-2R-277-ELN	INCLUDED	MMVOLT/5	LED DOUBLE FACE EXIT SIGN WITH DIE CAST ALUMINUM HOUSING, EMERGENCY BATTERY PACK. WHITE FINISH.
Y1	LITHONIA ELM2L	INCLUDED	MMVOLT/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
pflugarchitects.com

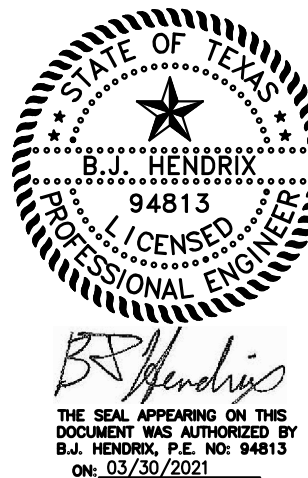
HUTTO ISD GYM RENOVATION

200 COLLEGE STREET HUTTO, TX 78634

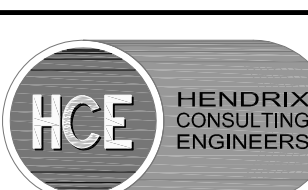
HUTTO ISD

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

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

STANDARD NOTES:														
1. PROVIDE RATED LOAD ON EACH PHASE. CIRCUIT NUMBERS SHOWN ON DRAWINGS ARE FOR REFERENCE ONLY.														
2. REFERENCE BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE.														
NOTES (THESE ITEMS APPLY ONLY WHERE SPECIFIED BELOW)														
(a) REFERENCE SPLIT SYSTEM / ROOFTOP ELECTRICAL CONNECTION SCHEDULE					(d) PROVIDE WITH SHUNT TRIP BREAKER									
(b) REFERENCE TRANSFORMATION BOX / WAVE CONNECTION SCHEDULE					(e) PROVIDE WITH PERMANENTLY INSTALLED LOCKING DEVICE									
(c) REFERENCE TRANSFORMATION BOX / WAVE CONNECTION SCHEDULE					(f) PROVIDE WITH GFCI BREAKER									
					(g) REFERENCE APPOINTMENT PANEL SCHEDULE									
					(h) PROVIDE 6" PANEL EXTENSION AND CTS AS NOTED									
120/208 VOLT, 3 PHASE, 4 WIRE, 400A, MCB, KA, RMS SYM														
FEEDER REFERENCE: NEMA 1 ENCLOSURE, S/N														
CKT	LOAD DESCRIPTION	WIRE/CONDUIT	KVA	CB	CB	KVA	WIRE/CONDUIT	LOAD DESCRIPTION	CKT					
1	R AV RACK	2	1.0	201	1.5	2	IF RACK 4	R	6					
1	R AV RACK	2	1.0	201	1.5	2	IF RACK 4	E	2					
5	E HVAC	2	1.5	201	0.5	2	E1-F1 EF-2 1P-1	R	6					
5	E HVAC	2	0.5	201	0.5	2	GYM LIGHTING	E	10					
11	L GYM LIGHTING	2	0.8	201	0.8	2	GYM LIGHTING	L	10					
11	L GYM LIGHTING	2	0.8	201	1.0	2	LIGHTING	L	12					
11	EXTERIOR LIGHTING	2	1.0	201	0.5	2	RECEPTACLES	R	14					
11	R RECEPTACLES	2	0.5	201	0.5	2	RECEPTACLES	R	16					
11	R HP1	2	18.3	603	18.3	28	HP1	R	20					
19	R HP1	2	0.5	201	0.5	2	RECEPTACLES	R	20					
21	R AHU1	7	4.2	203	4.2	7	AHU2	E	22					
21	R AHU1	7	0.5	201	0.5	2	RECEPTACLES	R	28					
29	R RECEPTACLES	2	0.9	201	0.9	2	RECEPTACLES	R	30					
29	R UPPER SCORING TABLE	2	1.0	201	1.0	2	UPPER SCORING TABLE	R	38					
38	R SCOREBOARD	2	1.5	201	1.5	2	DOOR POWER	E	34					
38	E WATER HEATER	5	3.0	202	3.0	2	HWHP	E	38					
38	E OVERHEAD PROJECTOR	2	1.0	201	0.5	2	ITCCH PANEL	R	40					
43	R RECEPTACLES	2	0.5	201	0.5	2	RECEPTACLES	R	42					
43	R RECEPTACLES	2	0.5	201	0.7	2	RECEPTACLES	R	44					
43	R RECEPTACLES	2	0.5	201	0.7	2	RECEPTACLES	R	46					
43	UPPER SCORING TABLE	2	1.0	201	0.7	2	RECEPTACLES	R	48					
48	R EXISTING RECEPTACLES	2	1.0	201	1.5	2	EXISTING REFRIGERATOR	E	50					
48	R EXISTING RECEPTACLES	2	1.0	201	1.0	2	EXISTING CEILING FAN	E	52					
53	S SPARE	--	--	202	30/2	--	SPARE	S	54					
53	S SPARE	--	--	203	60/3	--	SPARE	S	58					
59	S SPARE	--	--	201	0.5	--	SPARE	S	60					
61	S SPARE	--	--	201	0.5	--	SPARE	S	62					
63	S SPARE	--	--	201	0.5	--	SPARE	S	64					
63	S SPARE	--	--	201	0.5	--	SPARE	S	66					
63	S SPARE	--	--	201	0.5	--	SPARE	S	68					
63	S SPARE	--	--	201	0.5	--	SPARE	S	70					
73	S SPARE	--	--	201	0.5	--	SPARE	S	72					
73	S SPARE	--	--	201	0.5	--	SPARE	S	74					
73	S SPARE	--	--	201	0.5	--	SPARE	S	76					
81	S SPARE	--	--	201	0.5	--	SPARE	S	80					
81	S SPARE	--	--	201	0.5	--								

REMARKS:									
A.	THIS SCHEDULE IS NOT A COMPREHENSIVE DISCONNECT SCHEDULE. REFERENCE OTHER ELECTRICAL CONNECTION SCHEDULE 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 240-2(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 DISTANCING. MAKE CONNECTIONS IN ACCORDANCE WITH THE N.E.C.								
E.	NOTED FOR DRAWING ROOMS: ALL ELECTRIC ROOMS INDICATED ON LINE OF SIGHT OF A GREEN WALL OR IF SINGLE DISCONNECT, LEVEL WITH TOP OF CONDENSER. VERIFY LOCATION WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.								
F.	DISCONNECTS MOUNTED ABOVE CEILING MUST BE GRANTED TO BE READILY ACCESSIBLE NEAR UNIT.								
G.	HANDLE TO BE NO MORE THAN 36" ABOVE CEILING GRID.								
H.	NOTED FOR DRAWING ROOMS: ALL ELECTRICAL ROOMS INDICATED ON LINE OF SIGHT OF A GREEN WALL OR IF SINGLE DISCONNECT, LEVEL WITH TOP OF CONDENSER. VERIFY LOCATION WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.								
**	LUG FOR ALL PANELS SUBFED 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		1	S/N	400	BUILDING DISCONNECT		
○	277	480		3	NEMA 1	20	WH		
○	1 PHASE				NEMA 3R	20	ARIH--XX		
○	3 PHASE				NEMA 3R	20			
○	60	60		1	NON-US'D	60	HP--XC		
○	60	60		1	ENCLOS'D				
○	60	60		1	CIRCUIT BREAKER				
○	200	200		2					
○	400	400		3					
○	600	600		3					
○	800	800		3					
○	1000	1000		3					
○	1600	1600		3					
○	2000	2000		3					
○	2500	2500		3					
○	3000	3000		3					

NO SCALE

1	NEW WEATHERHEAD AMPERAGE TO MATCH SERVICE SIZE. ELEVATION TO BE HIGH ENOUGH SO PEDESTRIANS CAN'T INTERFERE. CONFIRM FINAL HEIGHT WITH OWNER.
2	400 AMP TRANSOCKET UTILITY METER.
3	REFERENCE SERVICE GROUNDING DETAIL ON DETAIL SHEET(S) FOR GROUNDING REQUIREMENTS.
4	REFERENCE DISCONNECT SCHEDULE FOR ADDITIONAL INFORMATION.
5	REFERENCE PANELBOARD CONNECTION SCHEDULE FOR CONDUIT/WIRING SIZES AND QUANTITIES.
6	REFERENCE PANELBOARD SCHEDULE FOR ADDITIONAL INFORMATION.
7	CONFIRM FINAL ROUTING WITH ARCHITECT.
8	EXISTING POWER POLE. FIELD VERIFY AND REFERENCE SITE PLAN.

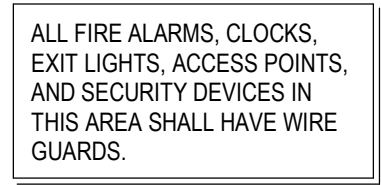
- A. WHEN THE LENGTH OF THE SECONDARY CONDUCTORS OF ANY TRANSFORMER EXCEEDS TEN FEET, PROVIDE AN ENCLOSED CIRCUIT BREAKER OR FUSED DISCONNECT WITHIN TEN FEET OF THE TRANSFORMER SECONDARY TERMINALS IN ACCORDANCE WITH NEC ARTICLE 240-21(C)(2). THIS OVERCURRENT DEVICE SHALL HAVE AN AMP RATING EQUAL TO THE AMP RATING OF THE PANEL BEING SERVED. THE PANEL BEING FED MAY BE CHANGED TO MAIN LUG ONLY.
- B. 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 NEC.
- C. PROVIDE SHOP DRAWINGS OF ALL ELECTRIC ROOMS INDICATING ALL PANEL, TRANSFORMER AND DISCONNECT LOCATIONS. ELECTRICAL EQUIPMENT MAY SHIFT IN LOCATION TO INSURE PROPER CLEARANCES.
- D. REFERENCE "DISCONNECT SCHEDULE" FOR ADDITIONAL DISCONNECT INFORMATION.
- E. SUB-FEED BREAKERS SHALL NEVER BE SMALLER THAN THE PANEL/MCB RATING OF THE PANEL BEING FED. CONTRACTOR TO VERIFY PRIOR TO SUBMITTAL AND CONTACT ENGINEER WITH ANY DISCREPANCIES.

- A. GEAR MANUFACTURER SHALL PROVIDE THE COORDINATION STUDY / FAULT CURRENT ANALYSIS / ARC FLASH ANALYSIS AND SHALL DETERMINE ALL FINAL KAIC/ARC FLASH RATINGS FOR ALL GEAR. THIS MUST BE SIGNED BY PROFESSIONAL ENGINEER WHO OVERSEES THE STUDY AT GEAR MANUFACTURER.
- B. ARC FLASH AND ARC FAULT LABELING AT SERVICE DISCONNECT AND ALL PANELS IS REQUIRED IN ORDER TO COMPLY WITH NEC 110.16 AND 110.24.
- C. FOR THESE LABELS TO BE ACCURATE THE FOLLOWING MUST BE USED:
 - ACTUAL AVAILABLE FAULT CURRENT FROM ELECTRIC UTILITY COMPANY.
 - ACTUAL WIRE SIZES AND LENGTHS TO BE INSTALLED PER ACTUAL FIELD ROUTING AS DETERMINED BY THE INSTALLING ELECTRICAL CONTRACTOR.
- D. AIC RATING OF UTILITY TRANSFORMER MAY NOT HAVE BEEN AVAILABLE FROM UTILITY COMPANY AT TIME OF DOCUMENT COMPLETION.
- E. ENGINEER HAS NO CONTROL OVER UTILITY COMPANY TRANSFORMER SELECTIONS. ENGINEER IS NOT RESPONSIBLE FOR SELECTION OF UTILITY TRANSFORMER OR RESULTING AVAILABLE FAULT CURRENT.
- F. AIC RATINGS FOR GEAR SHALL MEET OR EXCEED AIC RATINGS DETERMINED BY THE COORDINATION STUDY. THIS COMPLIES WITH NEC 110.9 AND 110.10.
- F. ENGINEER IS NOT RESPONSIBLE FOR ACTUAL LENGTHS AND ROUTING OF CONDUIT AND WIRE BEING INSTALLED FOR PROJECT. THIS IS MEANS AND METHODS OF ELECTRICAL CONTRACTOR. THIS INFORMATION IS NOT AVAILABLE TO ENGINEER AT TIME OF DOCUMENT COMPLETION. ELECTRICAL CONTRACTOR SHALL PROVIDE THIS INFORMATION TO GEAR MANUFACTURER FOR REQUIRED STUDY.
- G. INSTALLING ELECTRICAL CONTRACTOR SHALL CONTACT UTILITY COMPANY AND OBTAIN AND PROVIDE ACTUAL UTILITY FAULT CURRENT AND ACTUAL WIRE CONDUIT SIZE AND LENGTHS TO GEAR MANUFACTURER FOR DESCRIBED STUDY.
- H. RESULTS OF STUDY SHALL BE PROVIDED TO CITY AS REQUESTED AND STUDY SHALL BE SUBMITTED WITH GEAR SUBMITTAL TO PROJECT ENGINEER.
- I. ELECTRICAL CONTRACTOR SHALL LABEL ALL GEAR WITH AVAILABLE FAULT CURRENT AS WELL AS OTHER LABELING REQUIREMENTS PER NEC AND AS LISTED IN SPECIFICATIONS.
- J. ALL ITEMS LISTED ABOVE WILL BE PROVIDED BY ELECTRICAL CONTRACTOR AND WILL BE IN A DEFERRED SUBMITTAL.

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



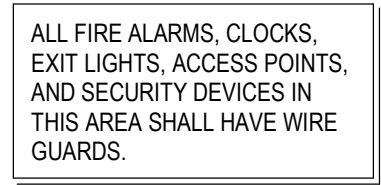
THESE NOTES APPLY TO THIS SHEET ONLY

- | | |
|----|---|
| L1 | LIGHT FIXTURES TO BE MOUNTED TO BOTTOM OF STRUCTURE. |
| L2 | LOW VOLTAGE LIGHTING CONTROL BUTTON. REFERENCE MISCELLANEOUS EQUIPMENT SCHEDULE AND N/LIGHT INTERIOR LIGHTING SCHEDULE. |
| L3 | COORDINATE LIGHTS WITH ARCHITECTURAL CEILING TREATMENT. |

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

pflugerarchitects.com

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



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

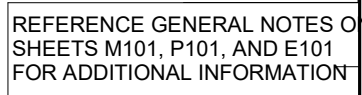
200 COLLEGE STREET HUTTO, TX 78634

200 COLLEGE STREET
HUTTO, TEXAS 78634

DATE: 02/24/2021

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

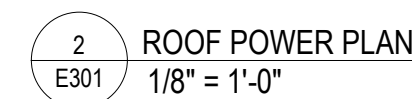
 No.	Date	Description
---	------	-------------



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



THESE NOTES APPLY TO THIS SHEET ONLY

- # HUTTO ISD GYM RENOVATION

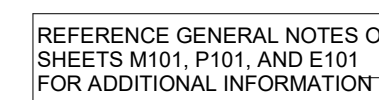
200 COLLEGE STREET HUTTO, TX 78634

HUTTO ISD

200 COLLEGE STREET
HUTTO, TEXAS 78634

DATE: 02/24/2021

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



● 中国 1990 年 12 月 1 日加入世界贸易组织

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

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-MAGER IP SURVEILLANCE CAMERA, (1) CABLE
	360° MULTI-MAGER IP SURVEILLANCE CAMERA, (1) CABLE
	360° FISHEYE LENS CAMERA
	IR ILLUMINATOR

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

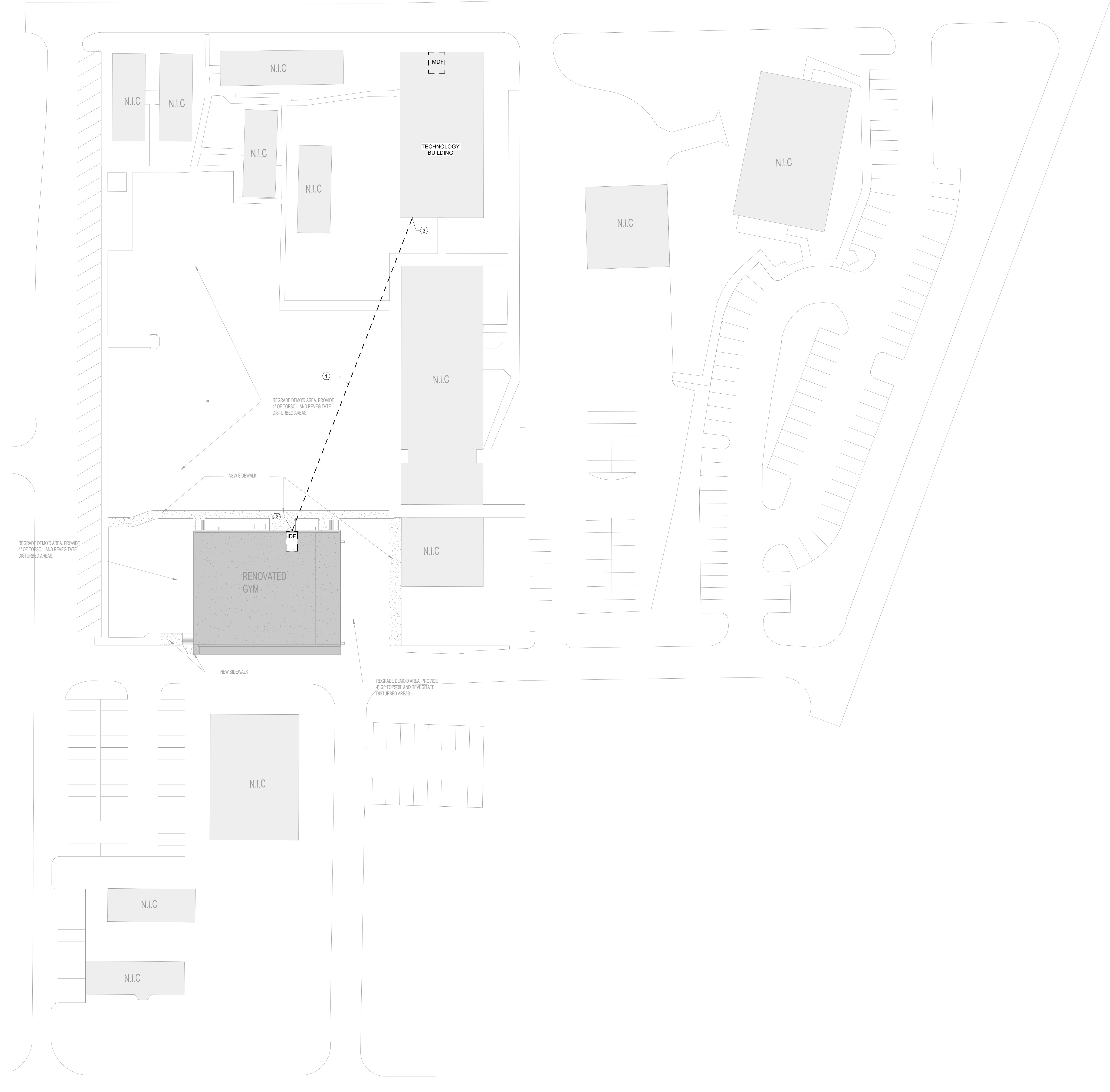
TECHNOLOGY - GENERAL NOTES

- 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.

TECHNOLOGY SYMBOLS LEGEND

NOT ALL SYMBOLS ARE USED

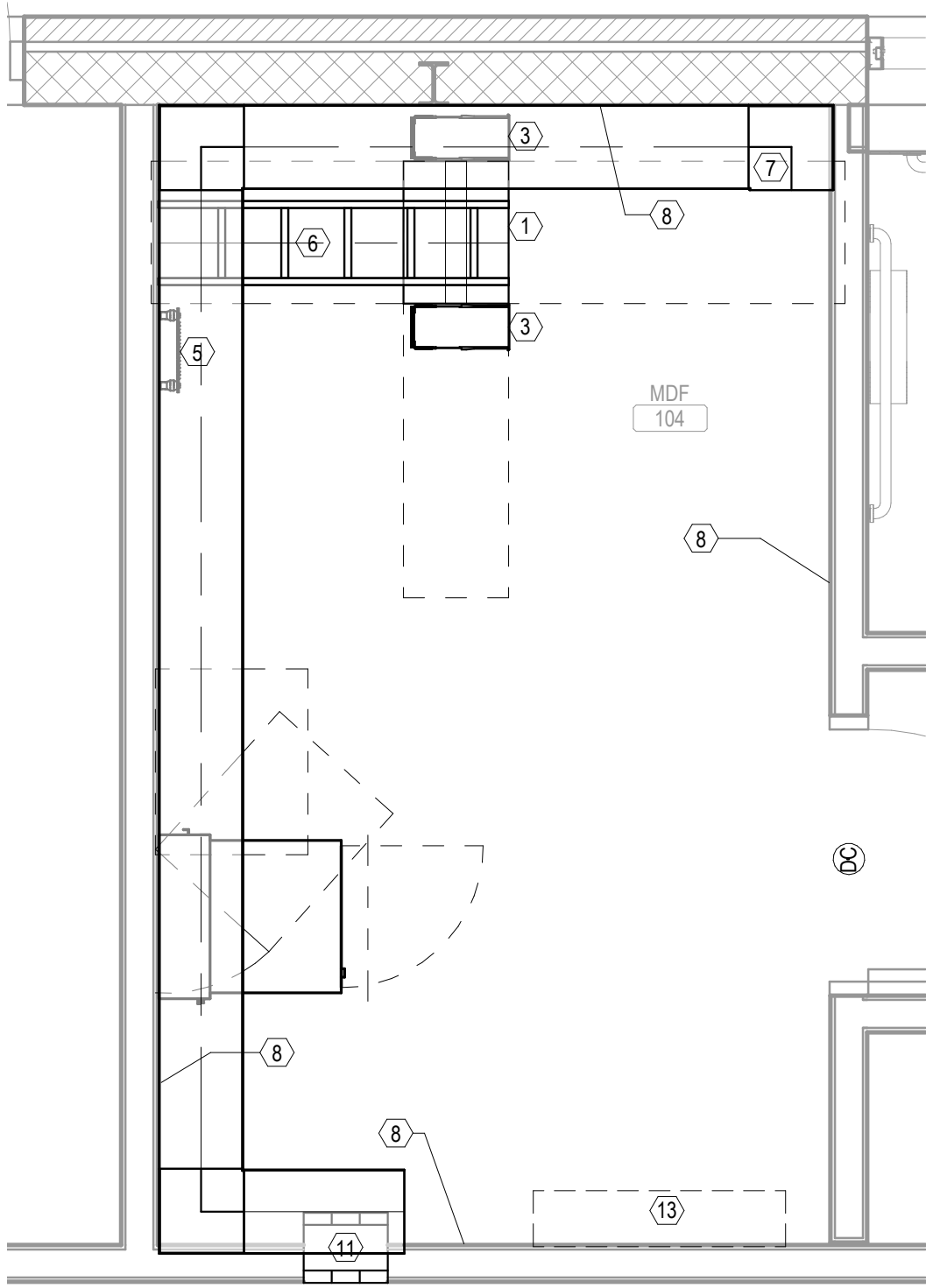
	AV WALL ROUGH-IN WITH DATA		KEYNOTE		Proposed Camera Direction SURVEILLANCE CAMERA		Camera Schedule Number (Floor #-Camera #) Camera (N)ew, (E)xisting Rough-in, (D)emo		Proposed Camera Direction PTZ CAMERA		Proposed Camera Direction FIXED SURVEILLANCE CAMERA		360°/MULTI-SENSOR FIXED SURVEILLANCE CAMERA		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		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA		MICROPHONE WITH AUDIO LINKED TO CAMERA
--	----------------------------	--	---------	--	--	--	--	--	---	--	--	--	---	--	--	--	---	--	-----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



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.

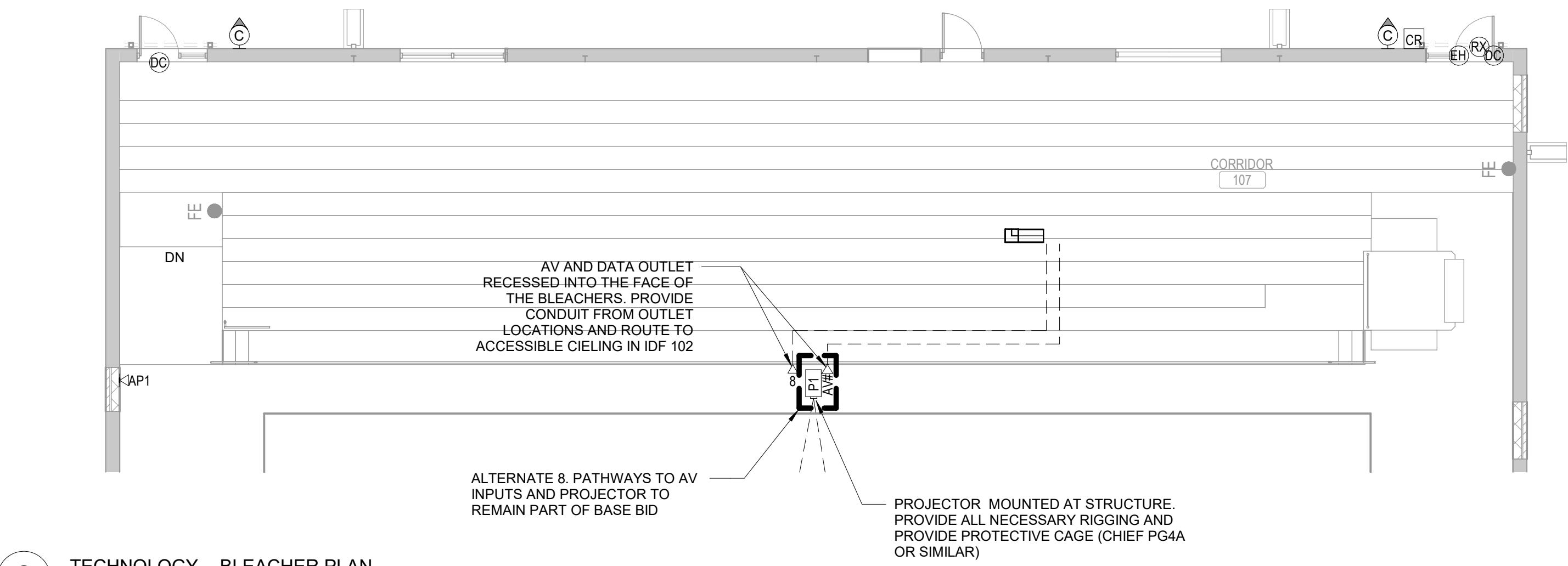
ENLARGEMENT KEYNOTES	
①	2-POST RACK, SECURED TO FLOOR WITH EXPANSION ANCHORS, FIRST RACK SHALL BE 6" FROM WALL, IF VERTICAL WIRE PRESENT BETWEEN RACK AND WALL THEN VERTICAL WIRE MANAGER ATTACHED TO WALL SIDE OF RACK SHALL BE 6" FROM WALL. (TYPICAL)
②	4-POST RACK, SECURED TO FLOOR WITH EXPANSION ANCHORS, 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.



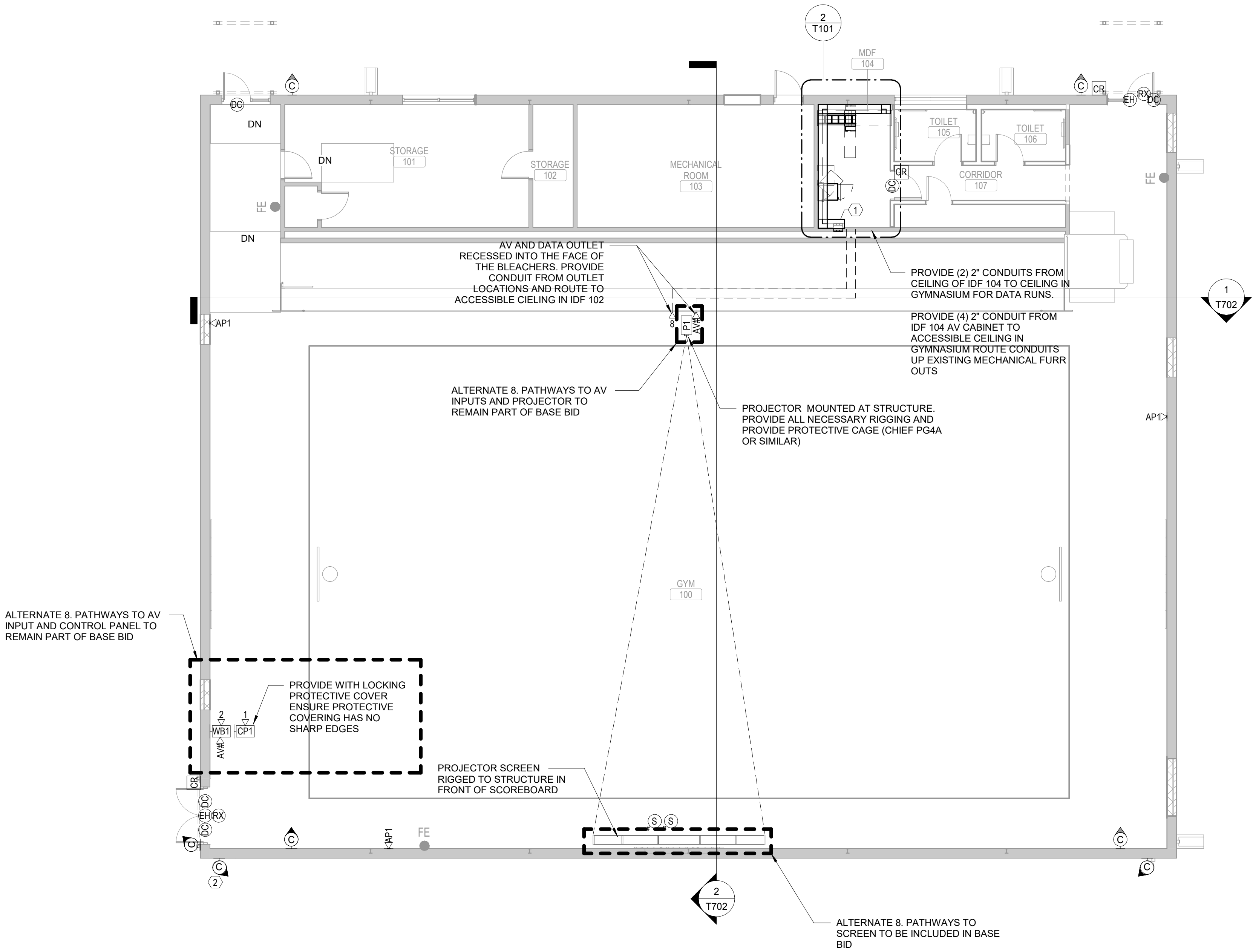
2 TECHNOLOGY - GYM RENOVATION - LEVEL 1 - MDF 104
SCALE: 1/2" = 1'-0"

- 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)

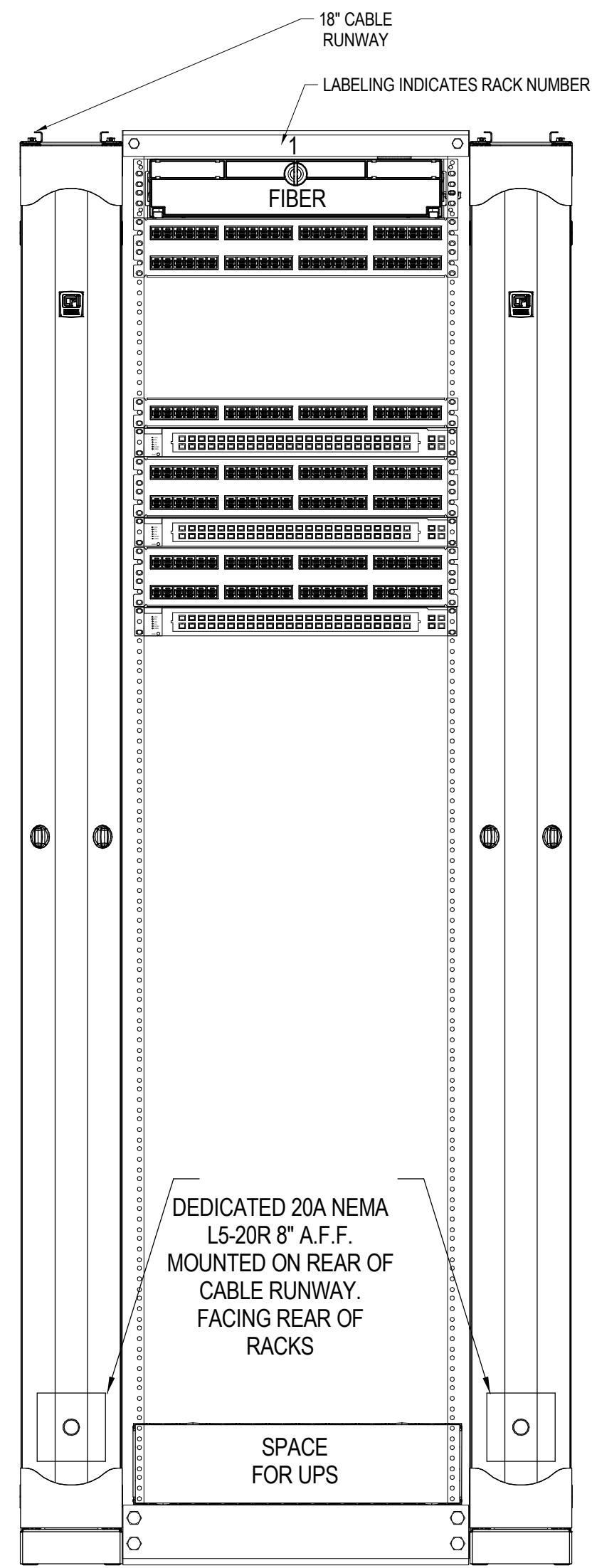
- | TECHNOLOGY KEYNOTES | |
|---------------------|---|
| ① | INSTALL CABLE TRAY ALONG SLOPED CEILING OVER TO MDF PENETRATION POINT. |
| ② | SURVEILLANCE SECURITY CONTRACTOR SHALL SET THIS EXTERIOR CAMERA TO 95 DEGREES HFOV TO CAPTURE BOTH THE ADMIN ENTRANCE, AS WELL AS THE SIDE ADMIN ENTRANCE. OWNER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



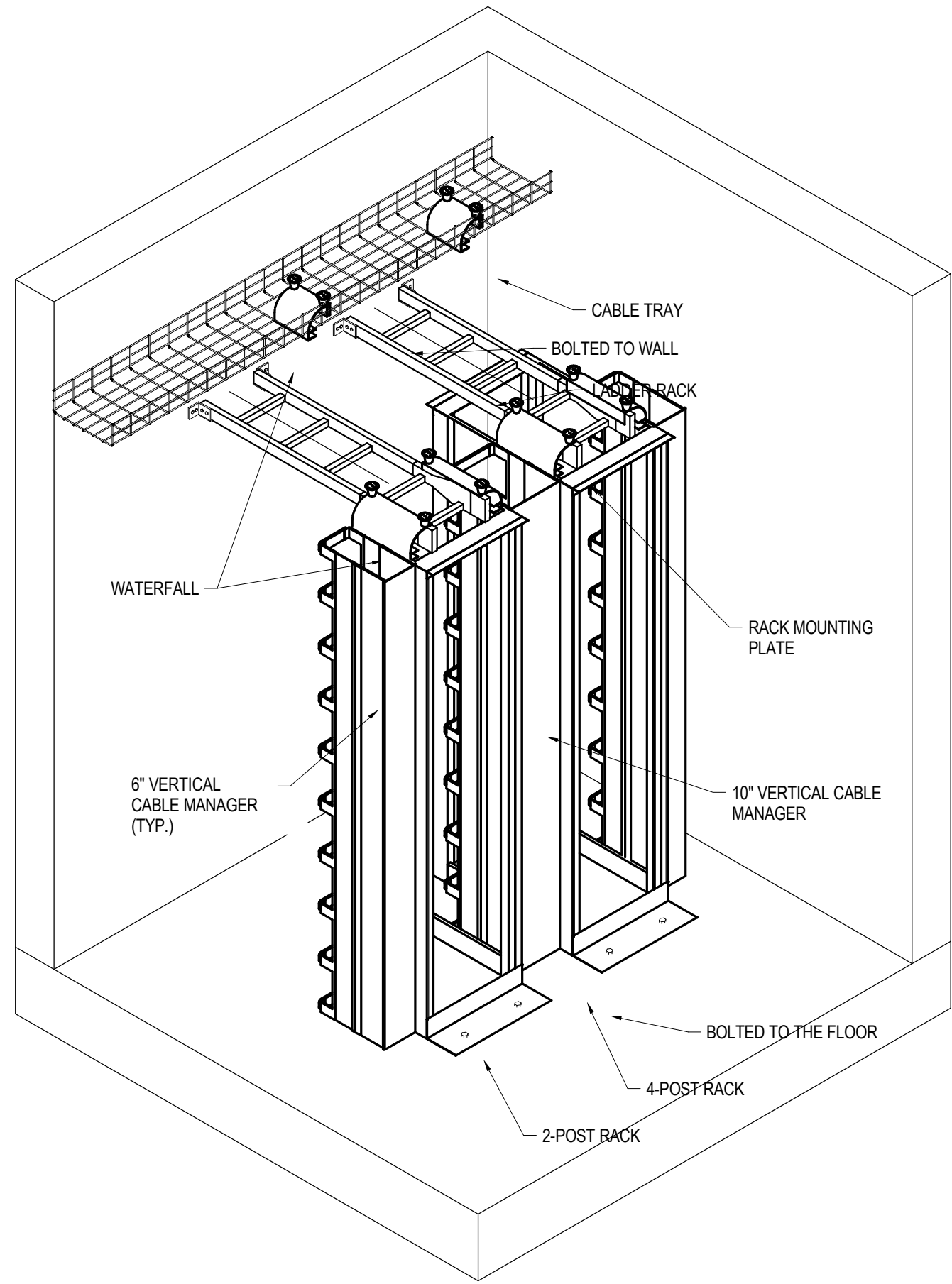
3 TECHNOLOGY - BLEACHER PLAN
SCALE: 1/8" = 1'-0"



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

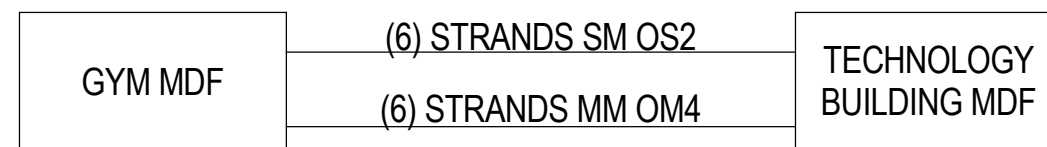


1 TYPICAL IDF RACK ELEVATION
SCALE: NTS

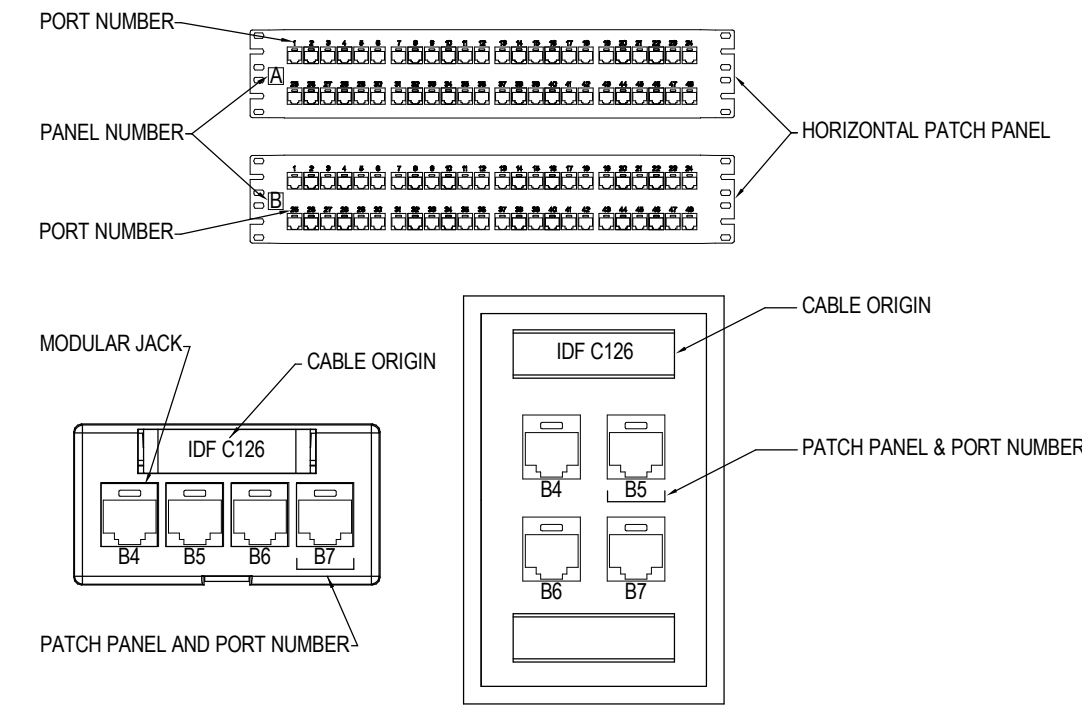


2 TYPICAL TELECOMMUNICATIONS ROOM DETAIL
SCALE: NTS

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

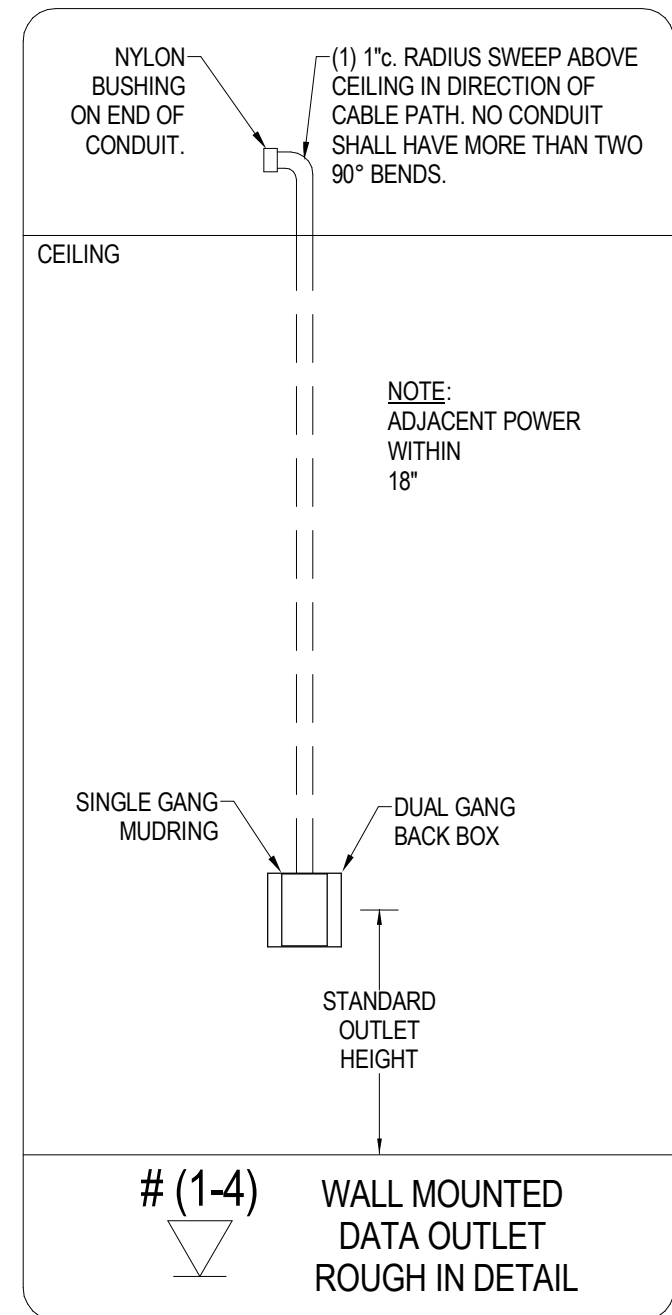


NOTE: 1) CABLE SHALL HAVE IDENTICAL LABEL AT BOTH ENDS
2) EACH PATCH PANEL SHALL BE UNIQUELY LABELED ALPHABETICALLY IN EACH MDF OR IDF

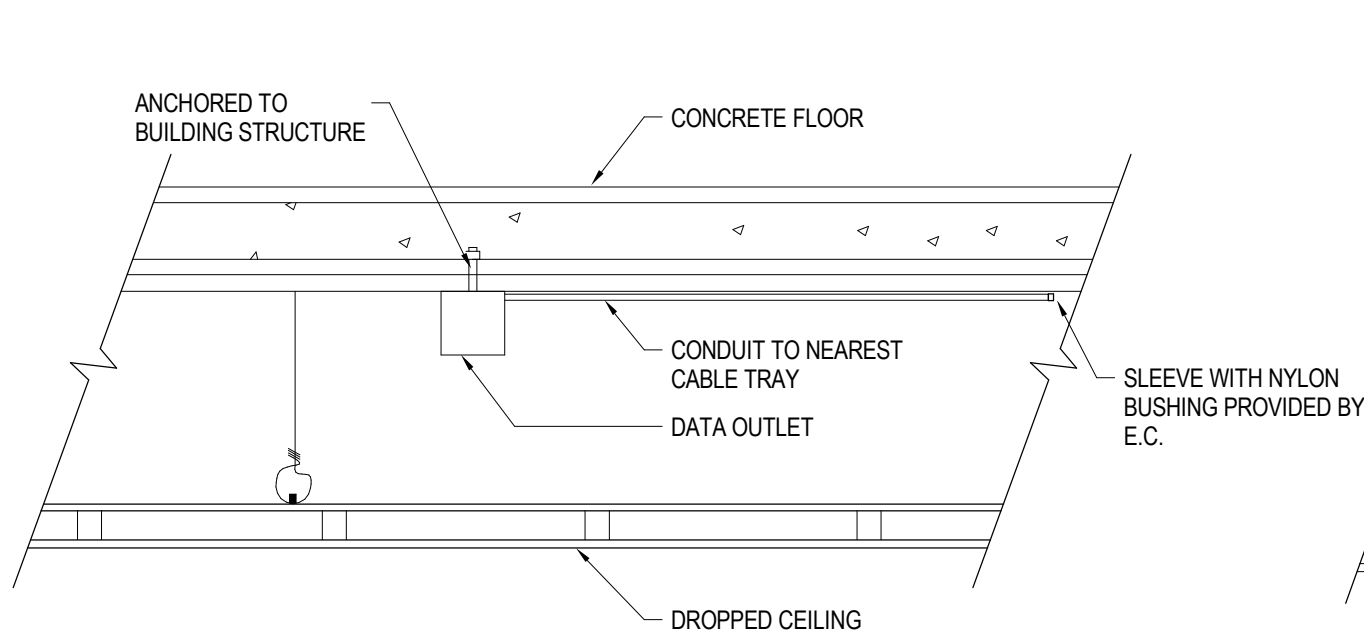
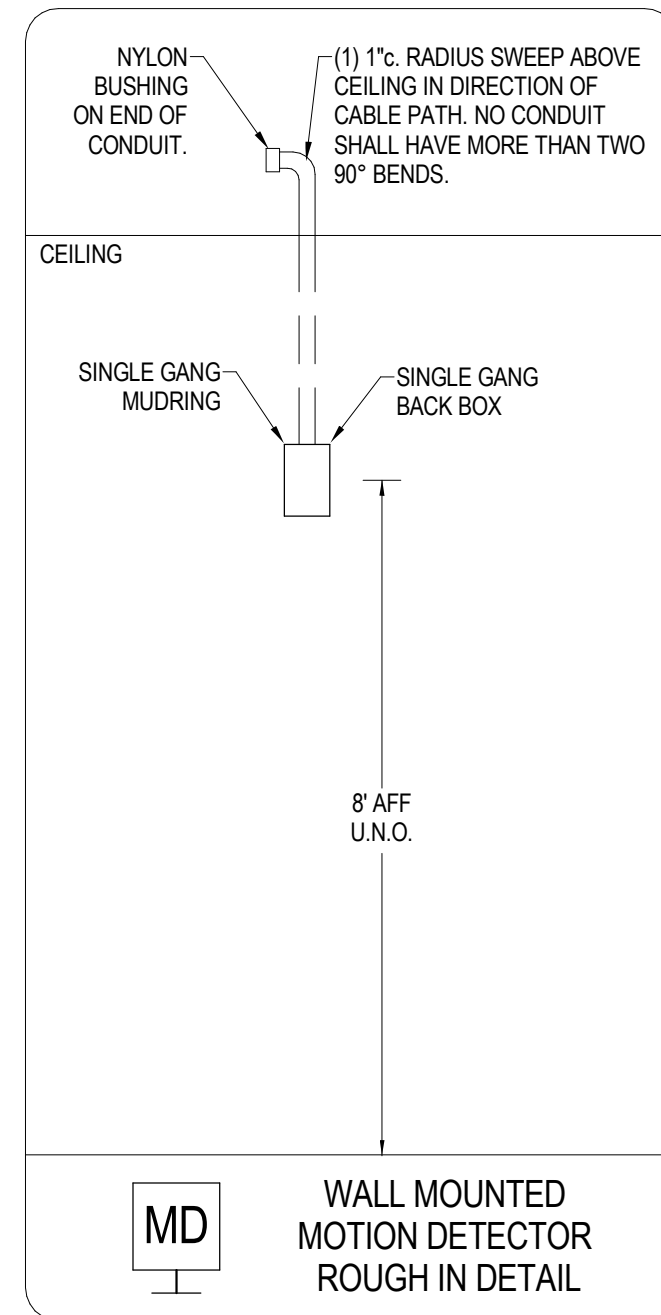
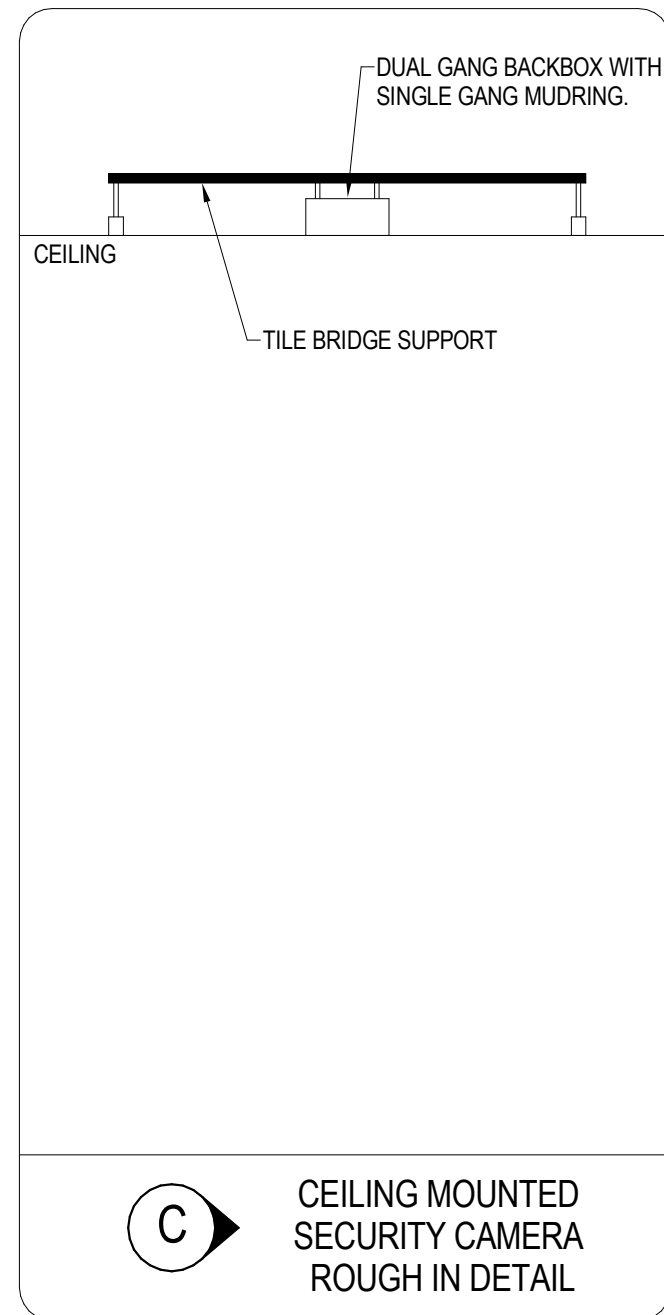
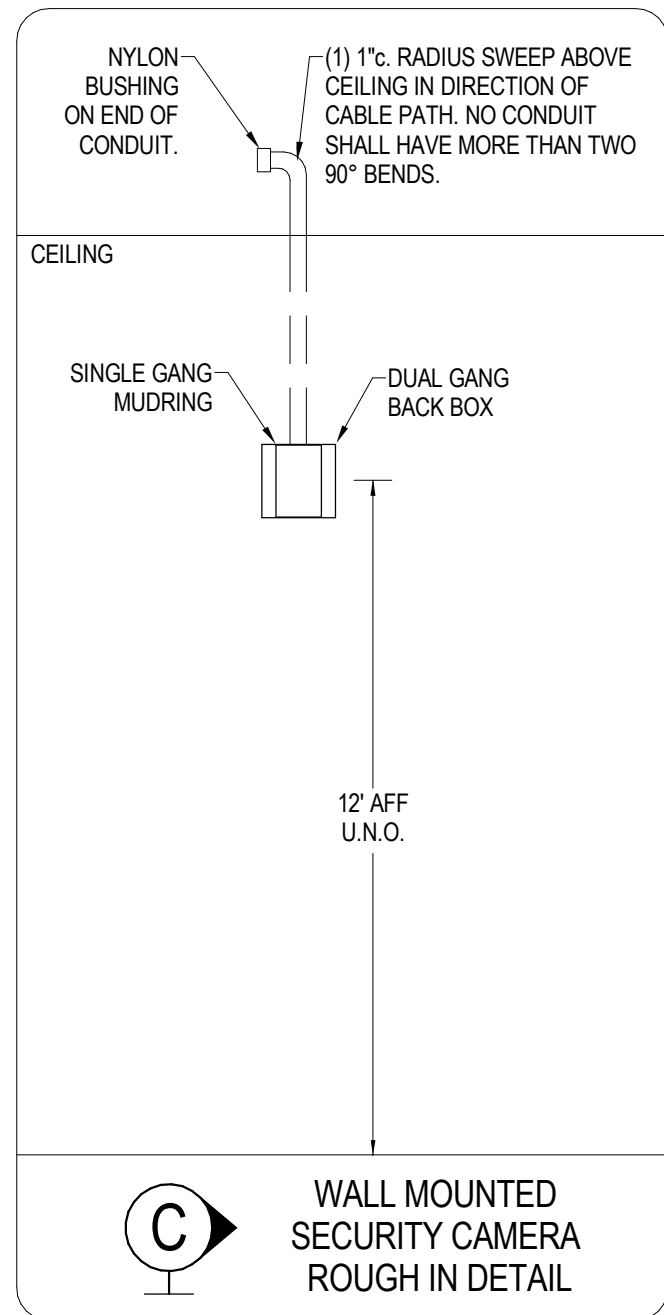
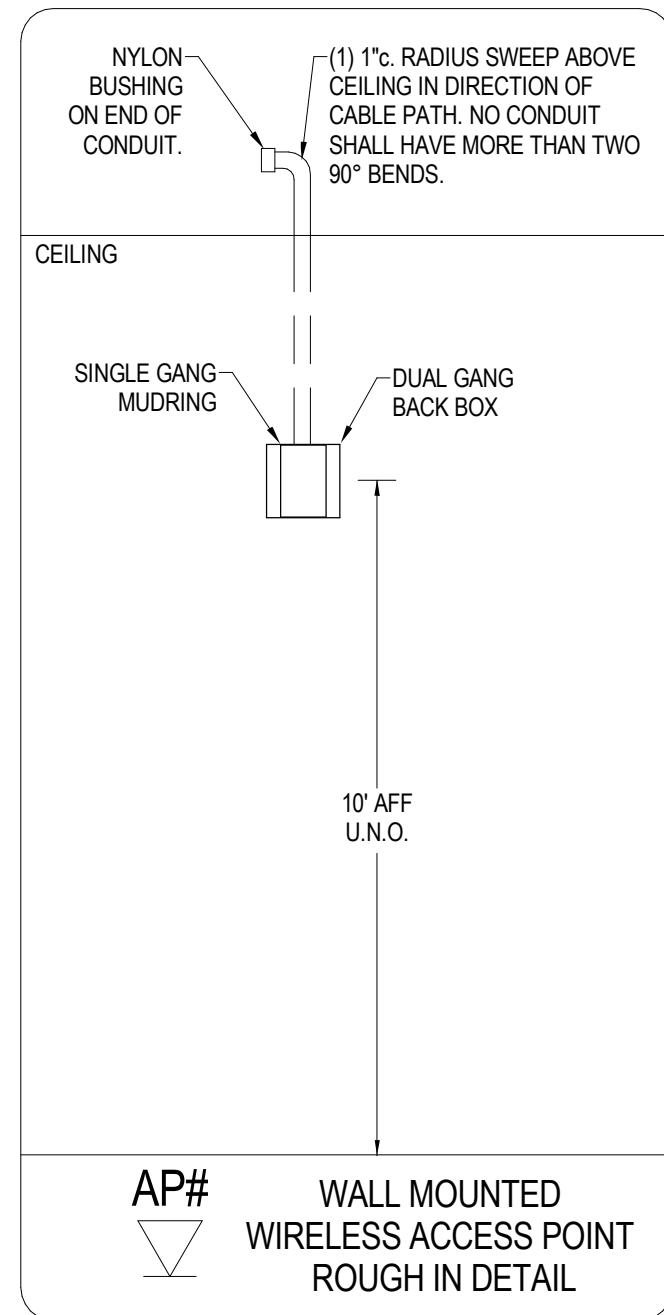
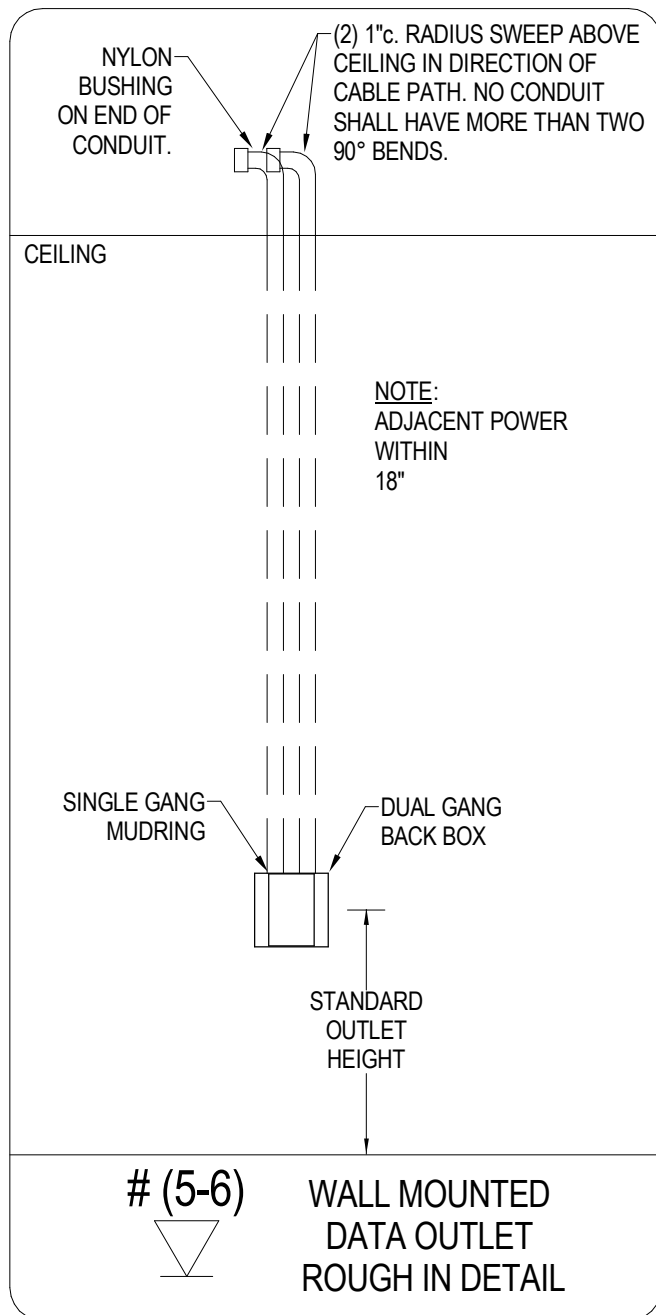
HORIZONTAL DATA CABLE LABELING SCHEME

4 LABELING & CABLING SCHEMES
SCALE: NTS

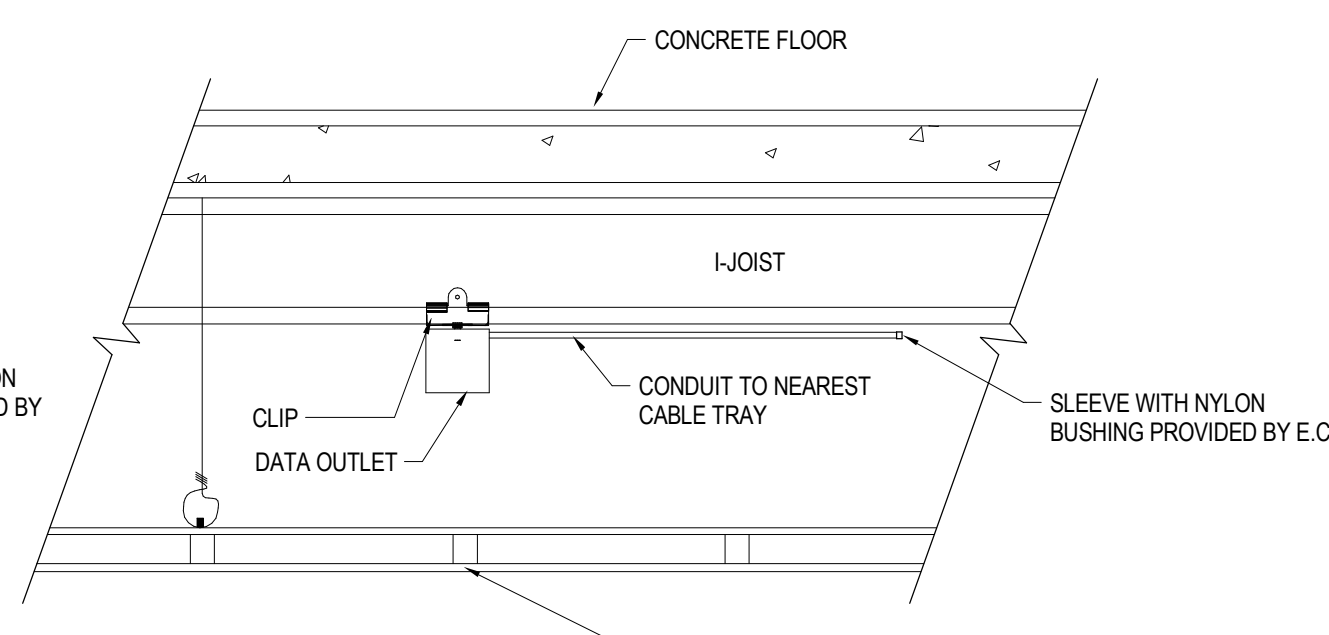
ALL TECHNOLOGY JUNCTION BOXES TO HAVE
NOMINAL DEPTH OF 3-1/2\"/>



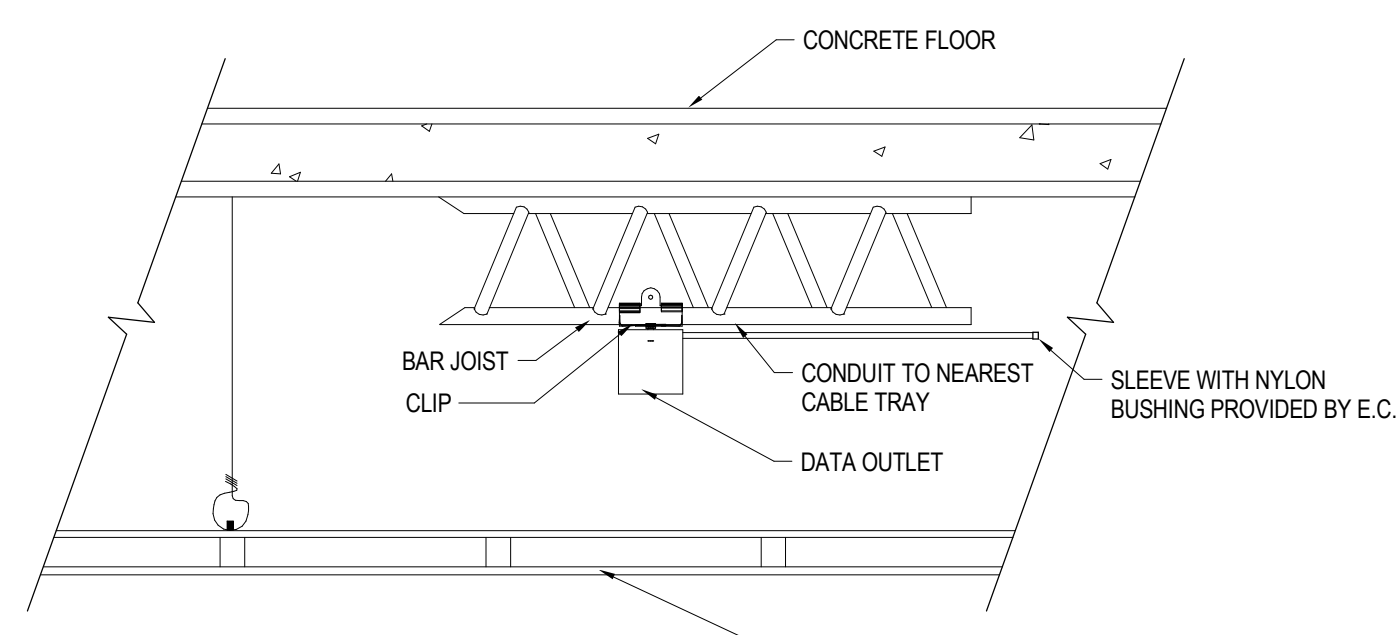
5 TECHNOLOGY ROUGH-IN DETAILS - BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE
SCALE: NS



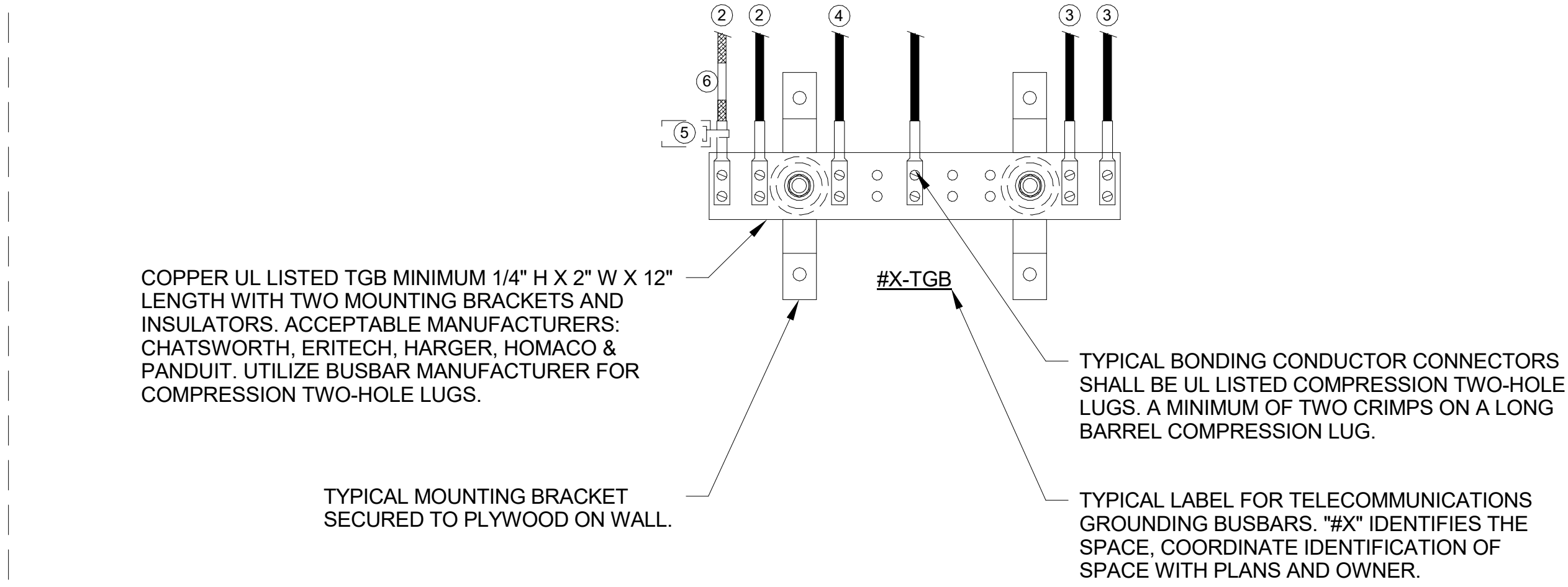
6 DROPPED CEILING MOUNTING DETAIL
SCALE: NS



7 I-JOIST MOUNTING DETAIL
SCALE: NS



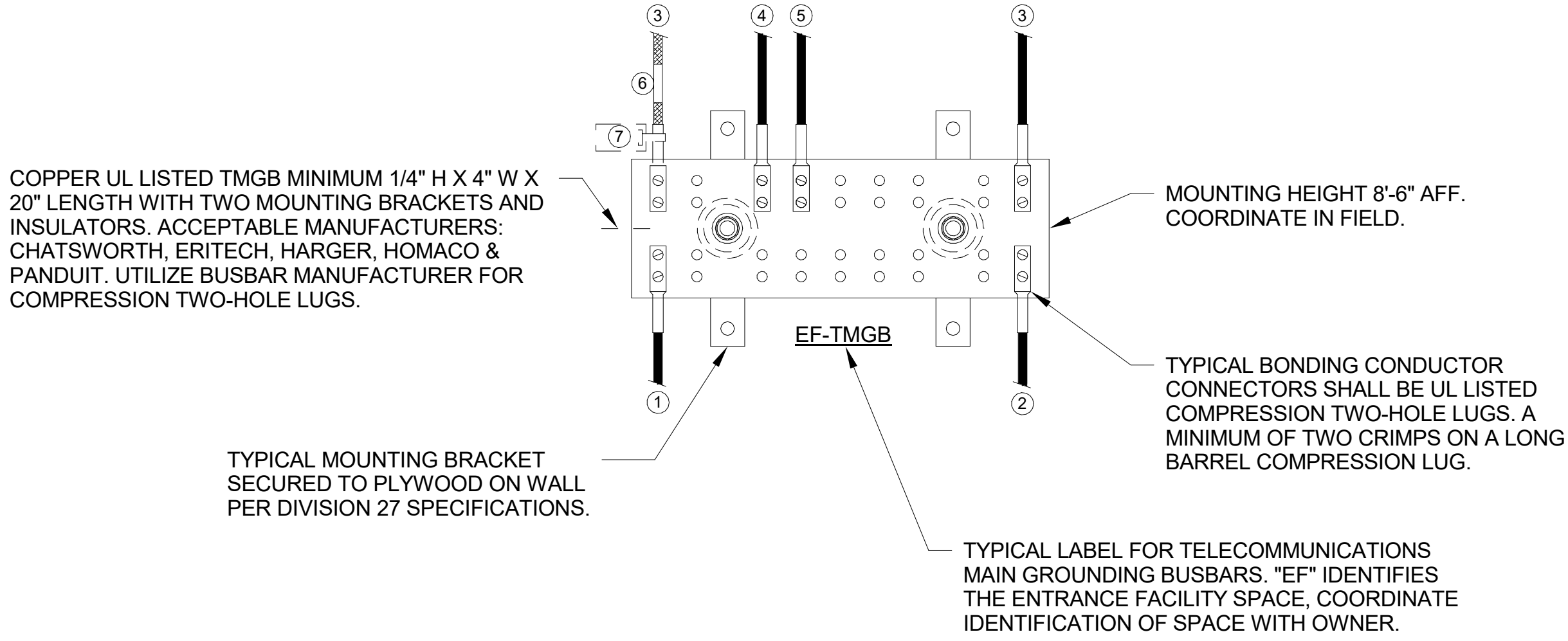
8 BAR JOIST MOUNTING DETAIL
SCALE: NS



- ### 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

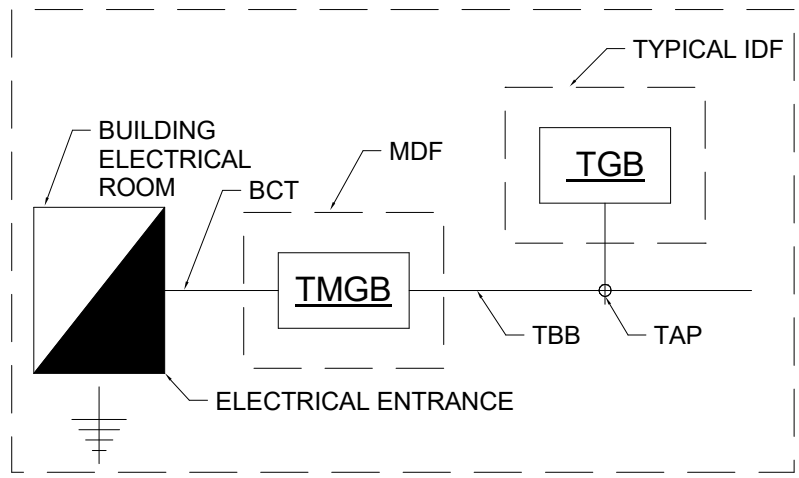
LENGTH (FEET)	SIZE (AWG)
LESS THAN (<) 13'	# 6
14' - 20'	# 4
21' - 26'	# 3
27' - 33'	# 2
34' - 41'	# 1
42' - 52'	# 1/0
53' - 66'	# 2/0
GREATER THAN (>) 66'	# 3/0



- ### 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*.

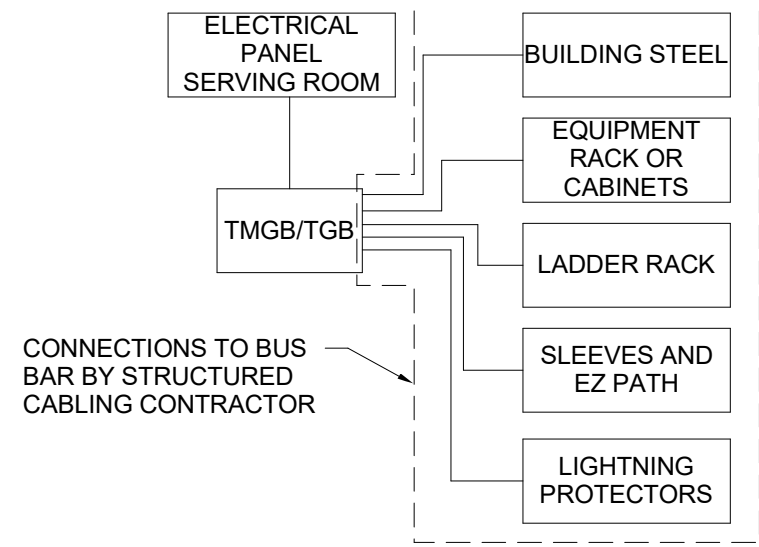
- ### GROUNDING & BONDING GENERAL NOTES
- ELECTRICAL CONTRACTOR RESPONSIBILITY -TELECOMMUNICATION MAIN GROUNDING BUSBAR (TMGB), TELECOMMUNICATION GROUNDING BUSBAR(S) (TGBS), AND THE BONDING CONDUCTORS TO THE BUILDING GROUNDING ELECTRODE, BUILDING STRUCTURAL STEEL, AND BONDING OF ALL TGBS TO THE TMGB 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

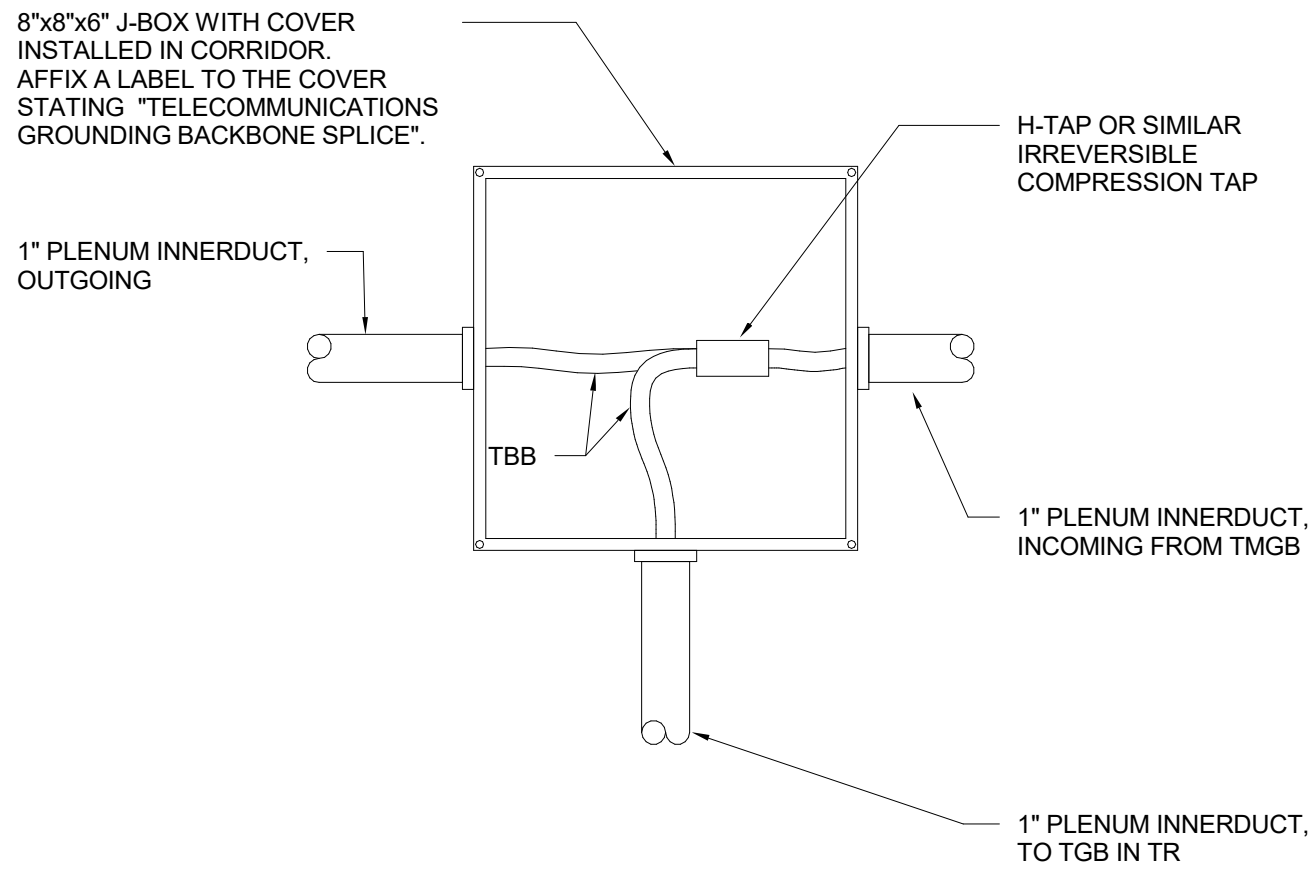


NOTES:
TMGB = Telecommunications main grounding busbar
TGB = Telecommunications main grounding busbar
TBB = Telecommunications bonding backbone
BCT = Bonding conductor for telecommunications
TAP = Conductor connects into a main feeder line
MDF = Main distribution frame
IDF = Independent distribution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

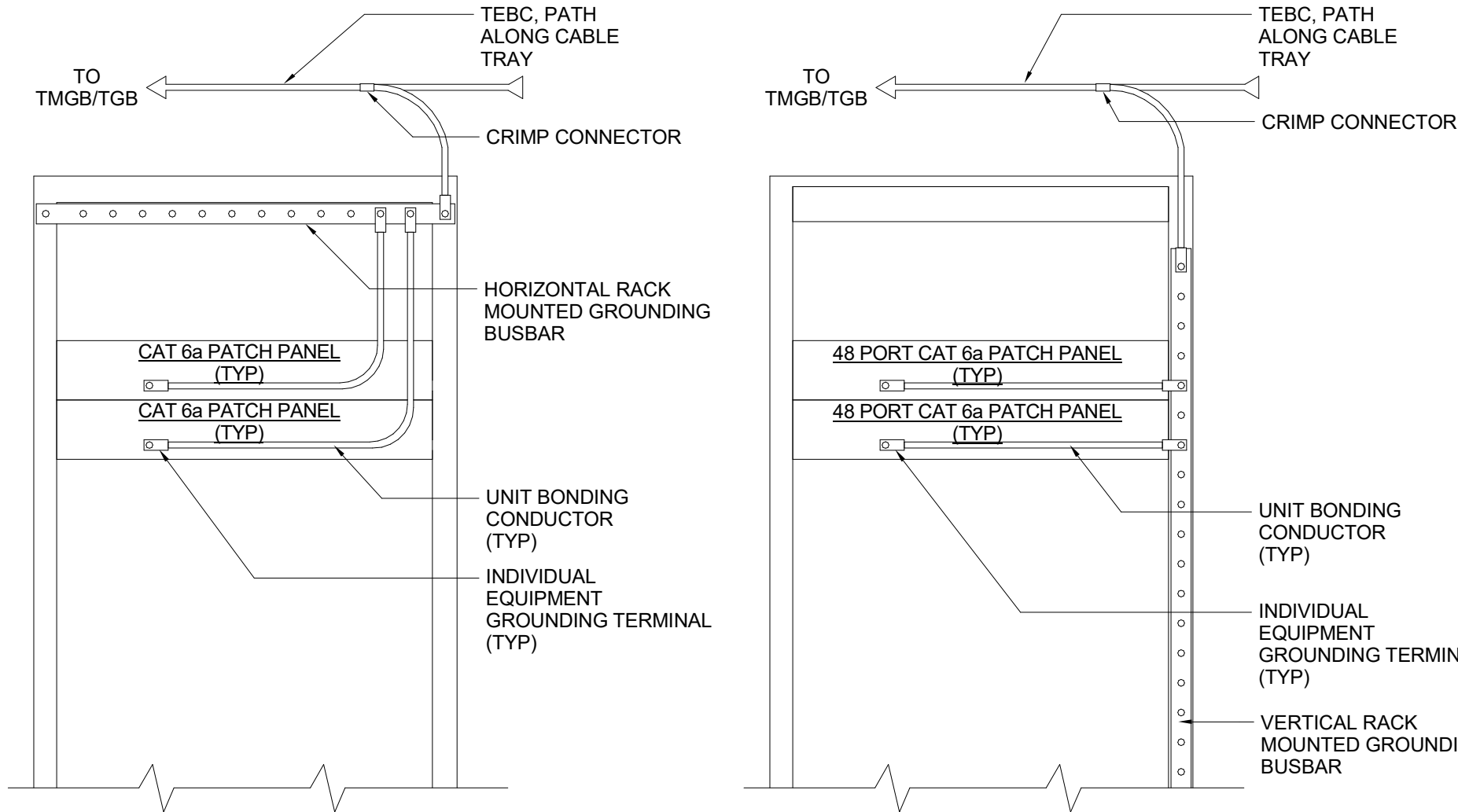
2 TYPICAL GROUNDING FLOW DIAGRAM
SCALE: NS



3 TELECOM ROOM BONDING DIAGRAM
SCALE: NS



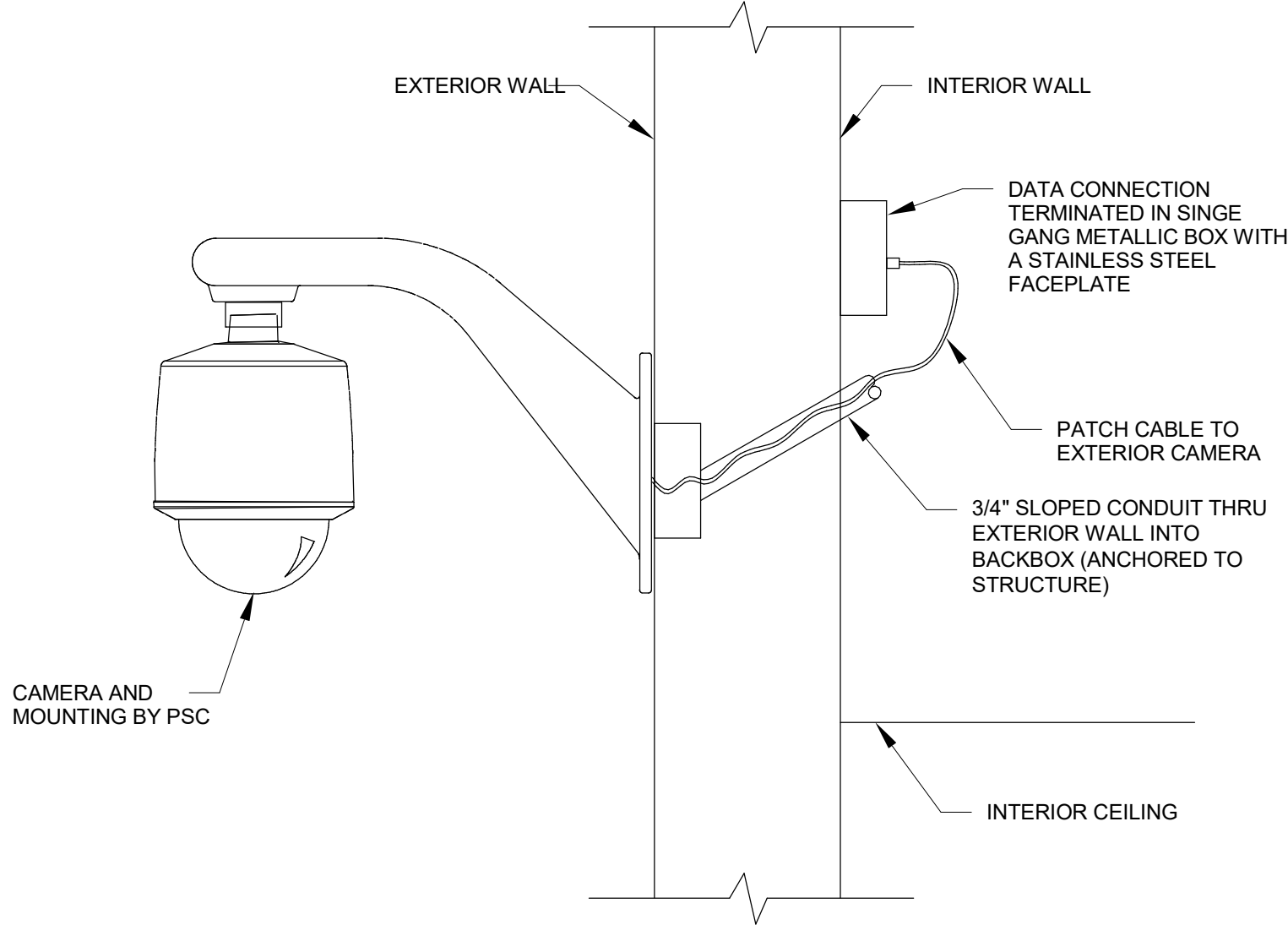
4 TELECOM BONDING BACKBONE SPLICE DETAIL
SCALE: NS



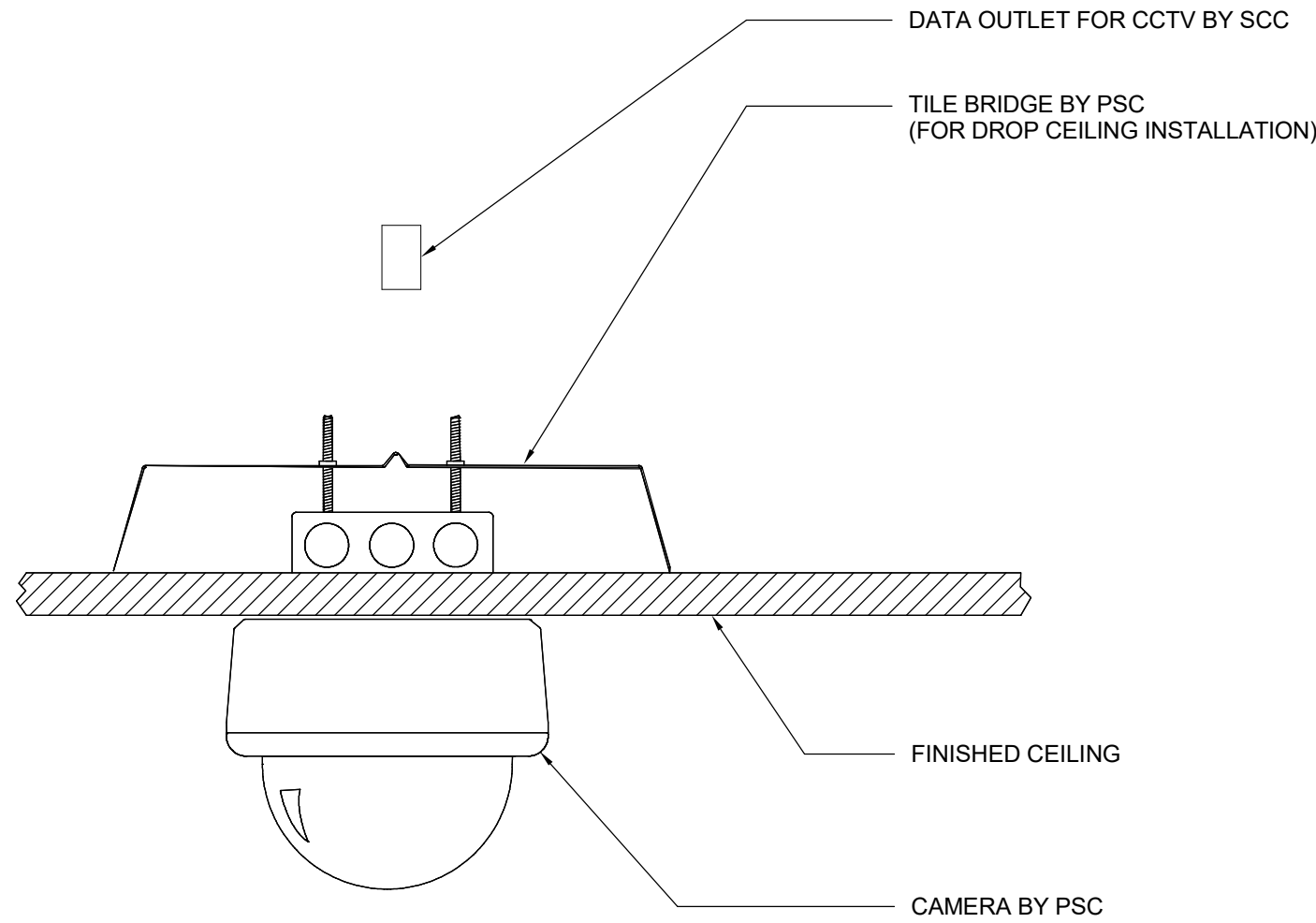
5 RACK MOUNTED GROUNDING BAR DETAIL
SCALE: NS

GENERAL NOTES:

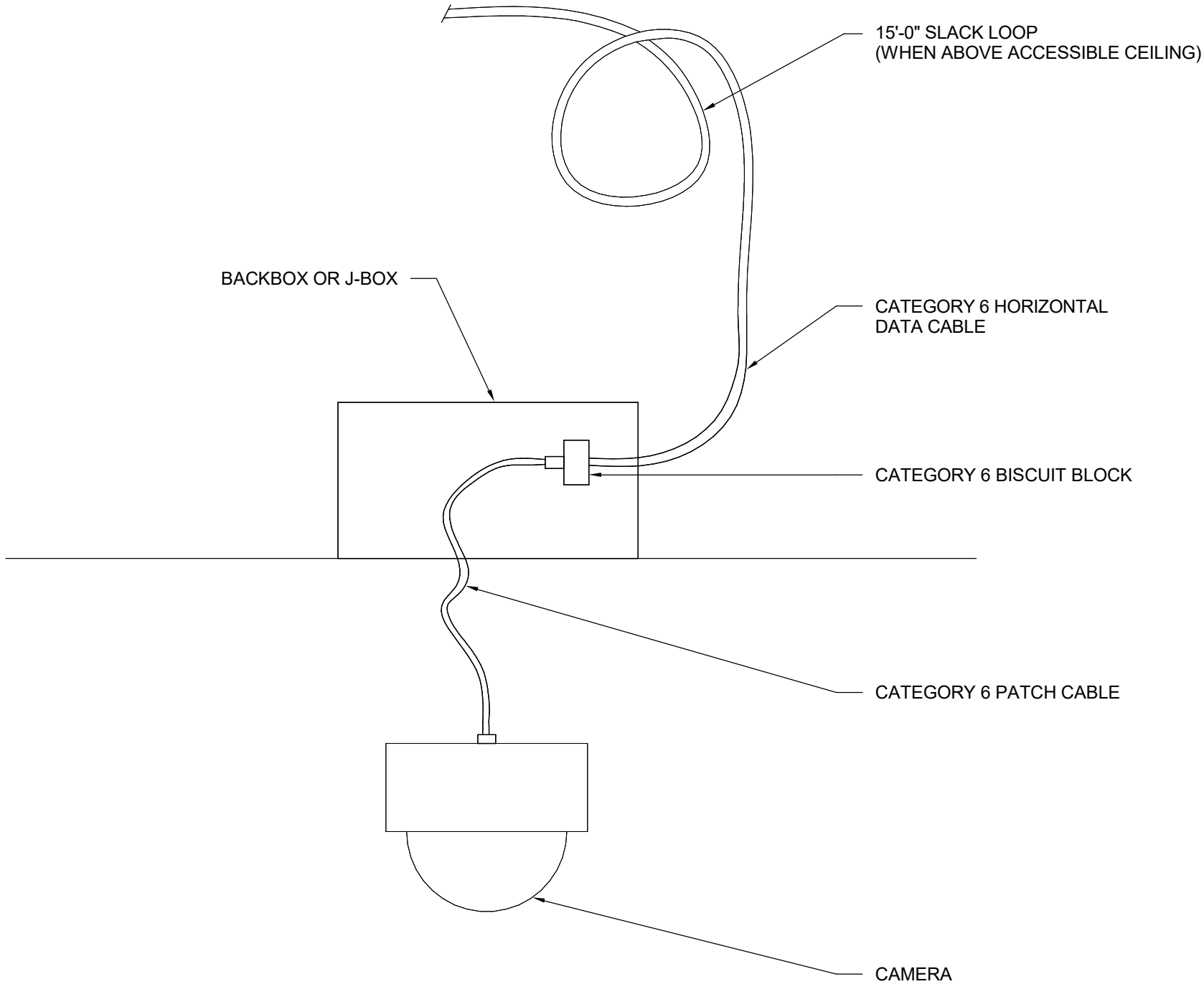
1. REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE WEATHER PROOF/WATER RESISTANT ENCLOSURE FOR ALL EXTERIOR CAMERAS.
3. ALL CABLES FROM CAMERAS SHALL BE INSTALLED IN FLEXIBLE AND/OR RIGID CONDUIT.
4. ALL MOUNTING DETAILS ARE REFERENCE FOR ALL FIXED DOME, 180°, 360°, PTZ, AND "BULLET/BOX"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



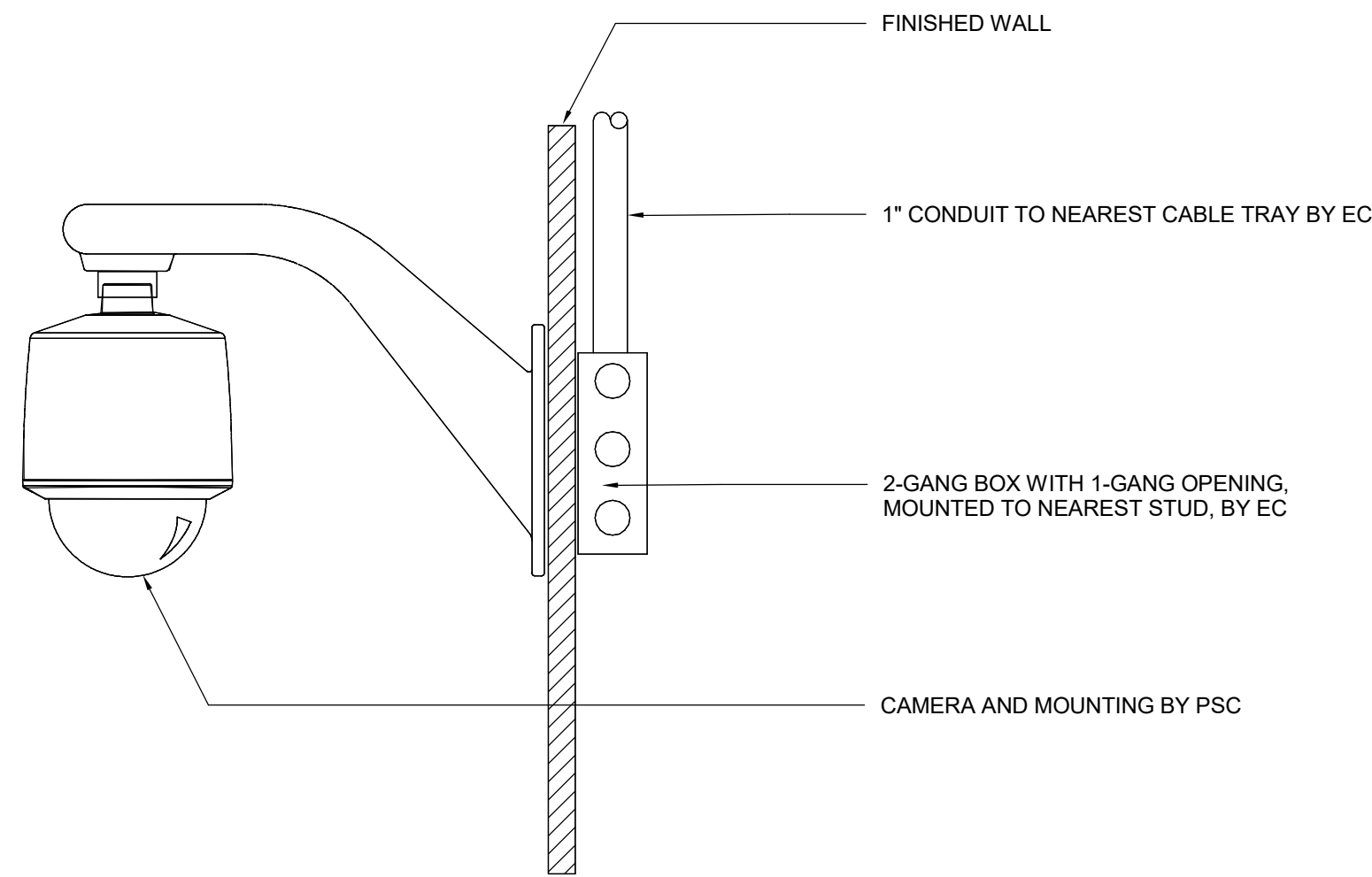
1 EXTERIOR WALL MOUNTED CAMERA DETAIL
SCALE: NTS



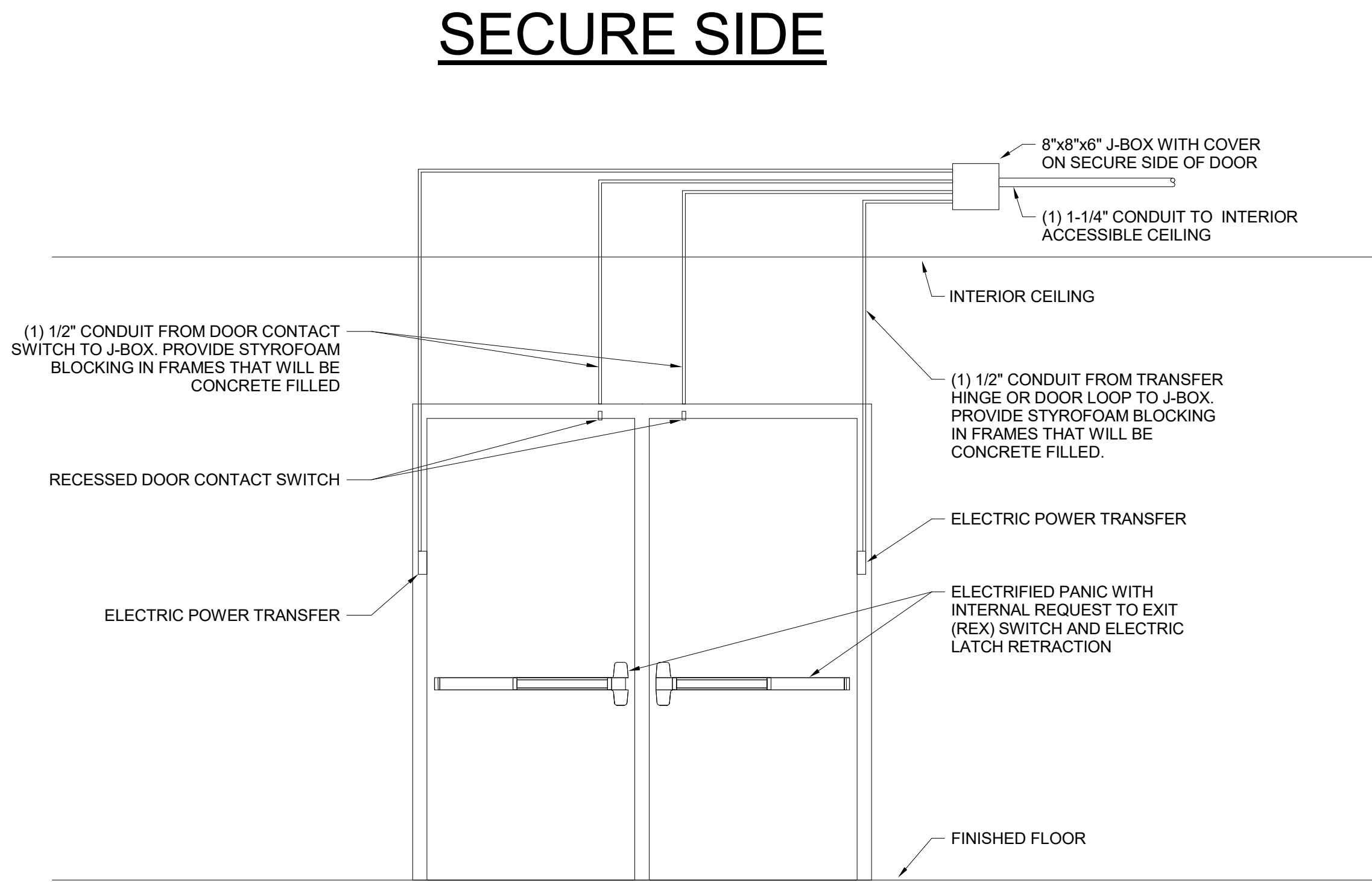
3 CEILING MOUNTED CAMERA DETAIL
SCALE: NS



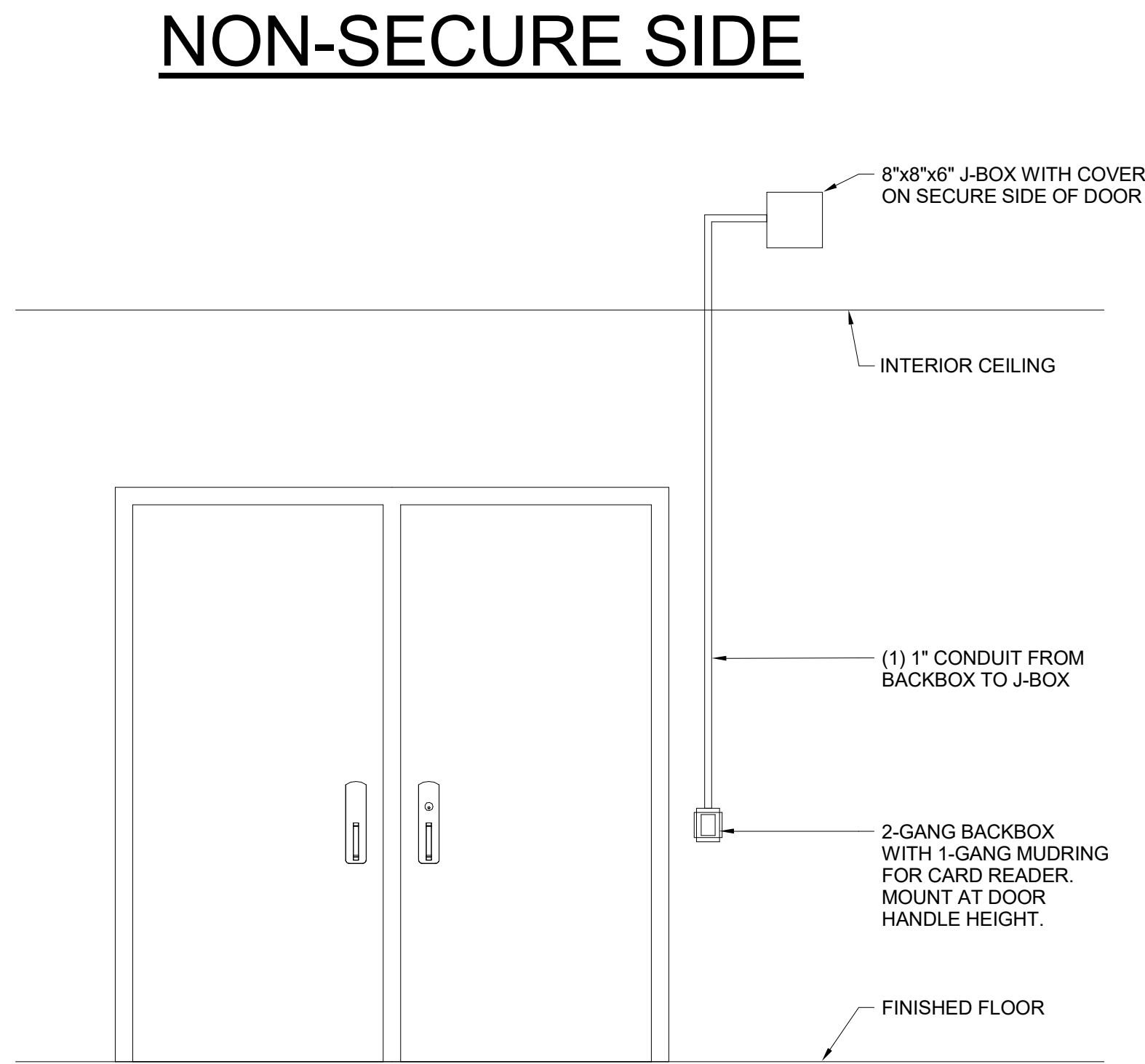
2 TYPICAL CAMERA INSTALLATION SECTION DETAIL
SCALE: NS



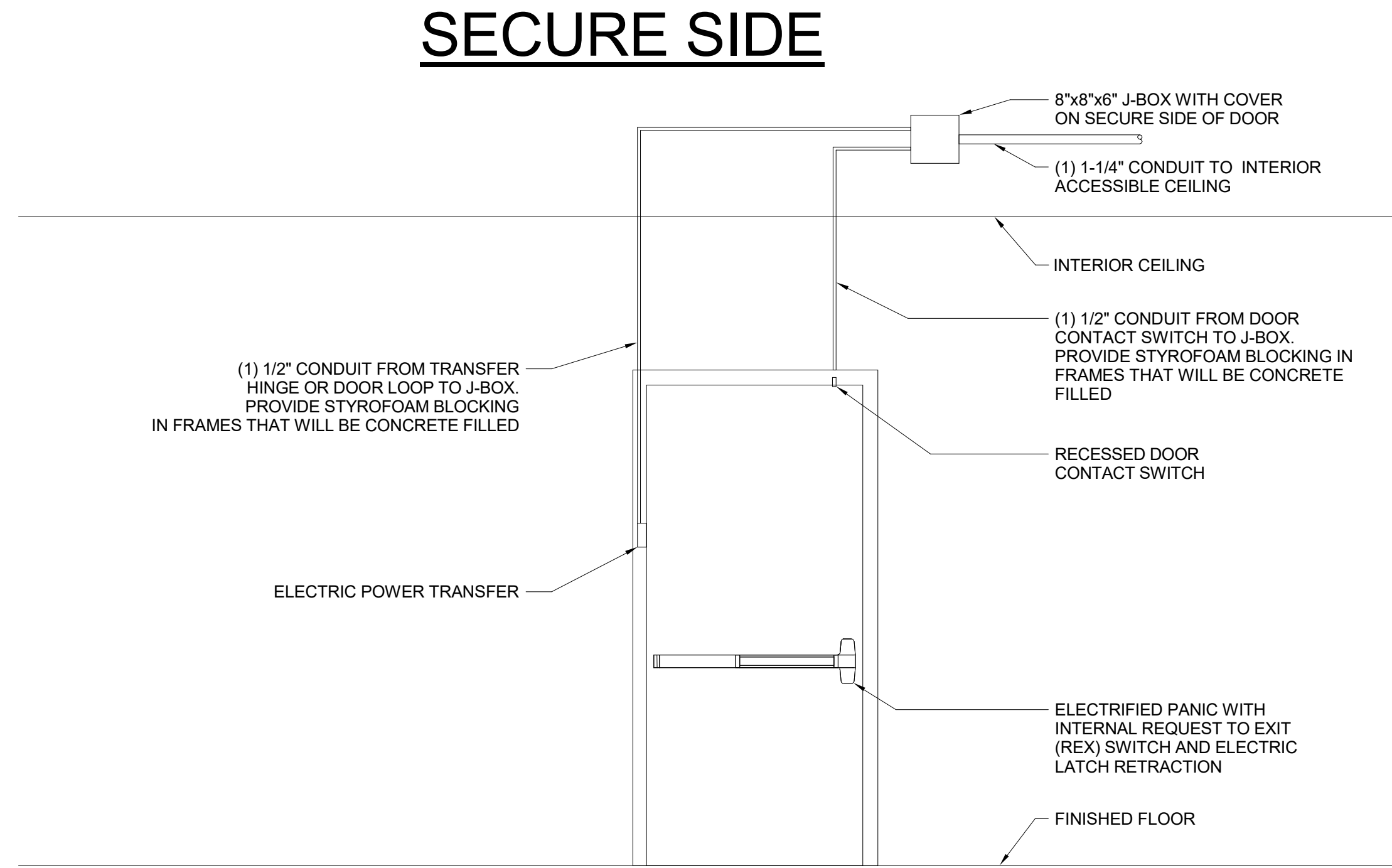
4 WALL MOUNTED CAMERA DETAIL
SCALE: NS



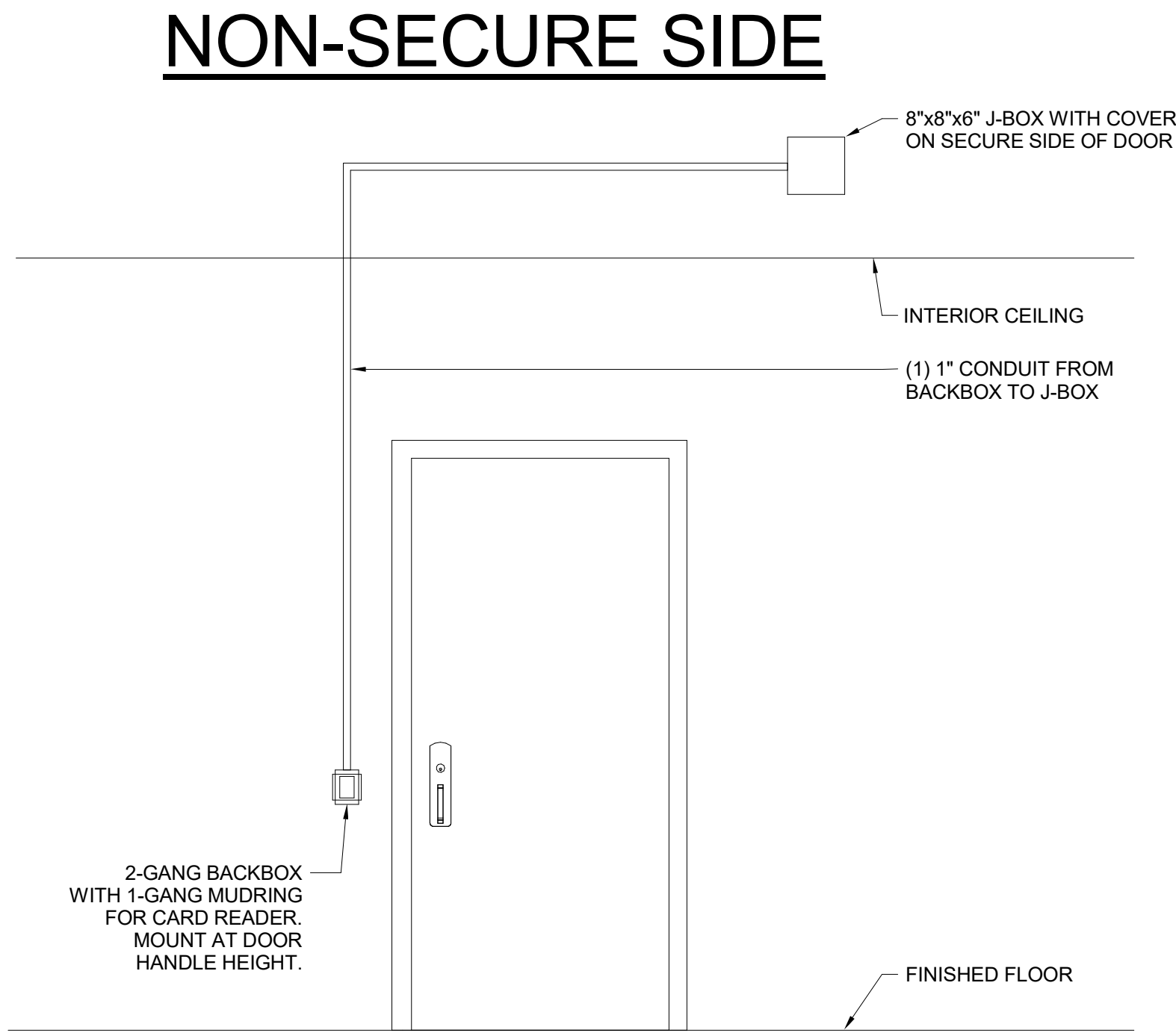
1 TYPICAL UNIVERSAL DOUBLE DOOR ROUGH-IN DETAIL - CR TYPE 1
SCALE: NTS

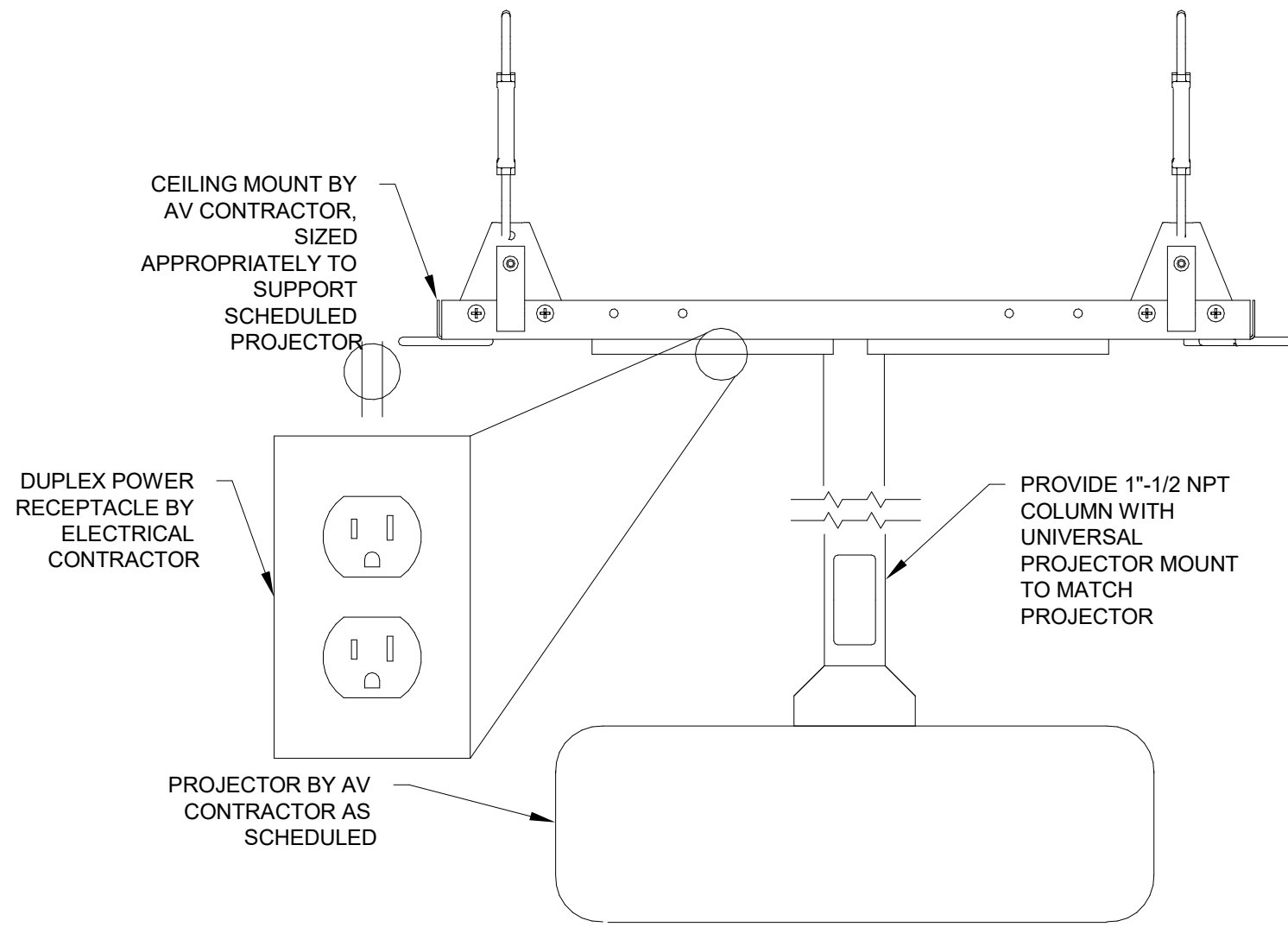
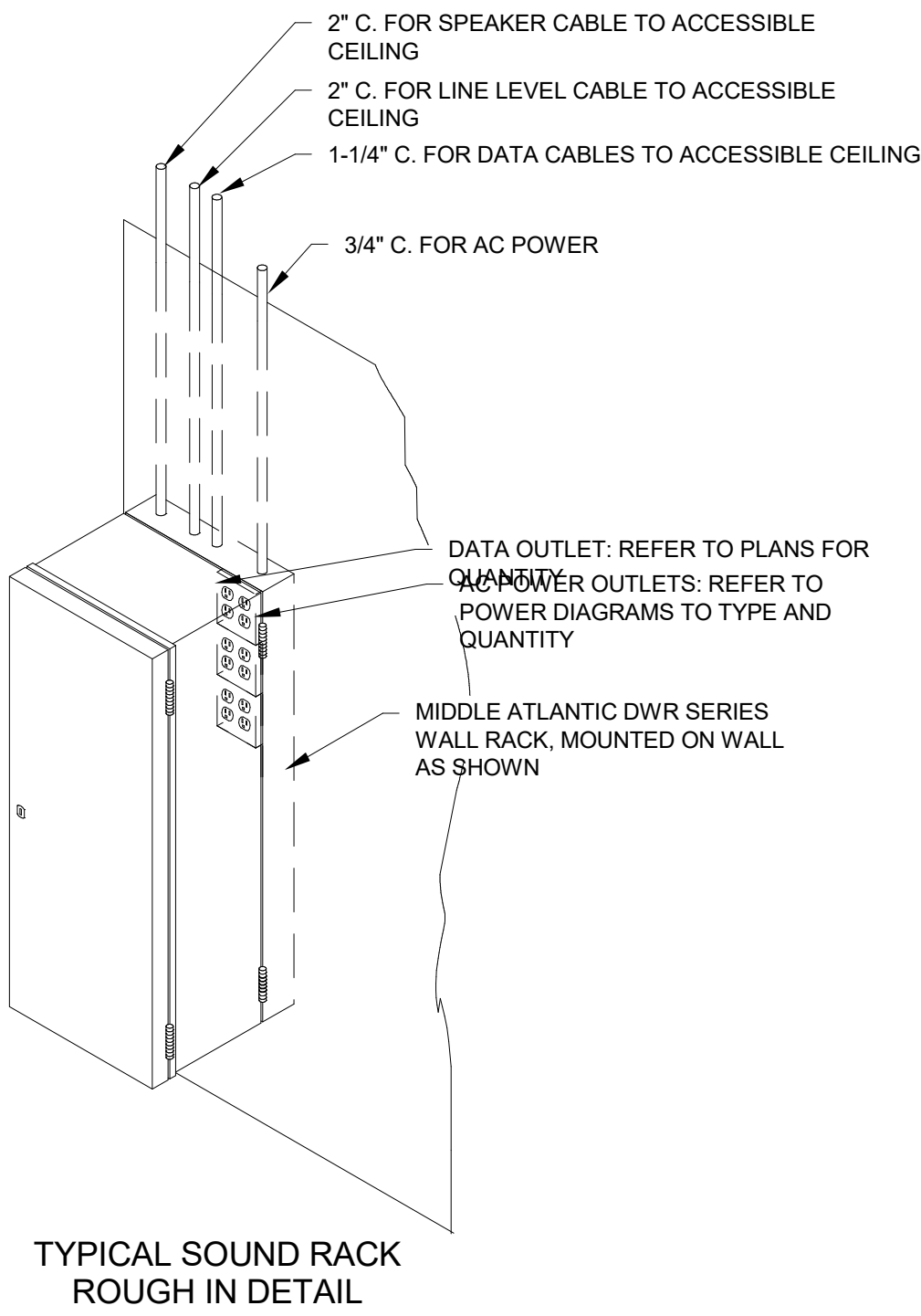
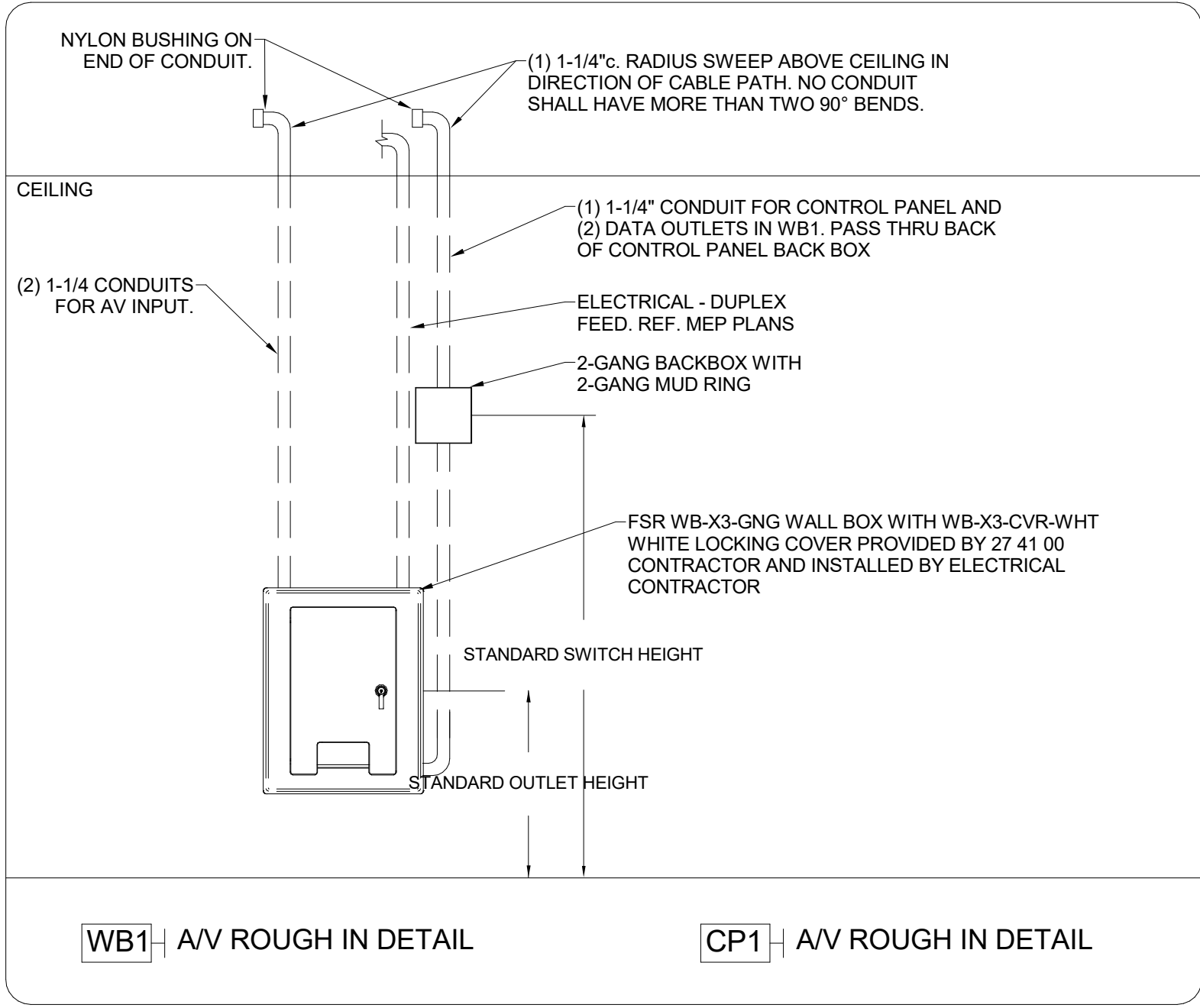
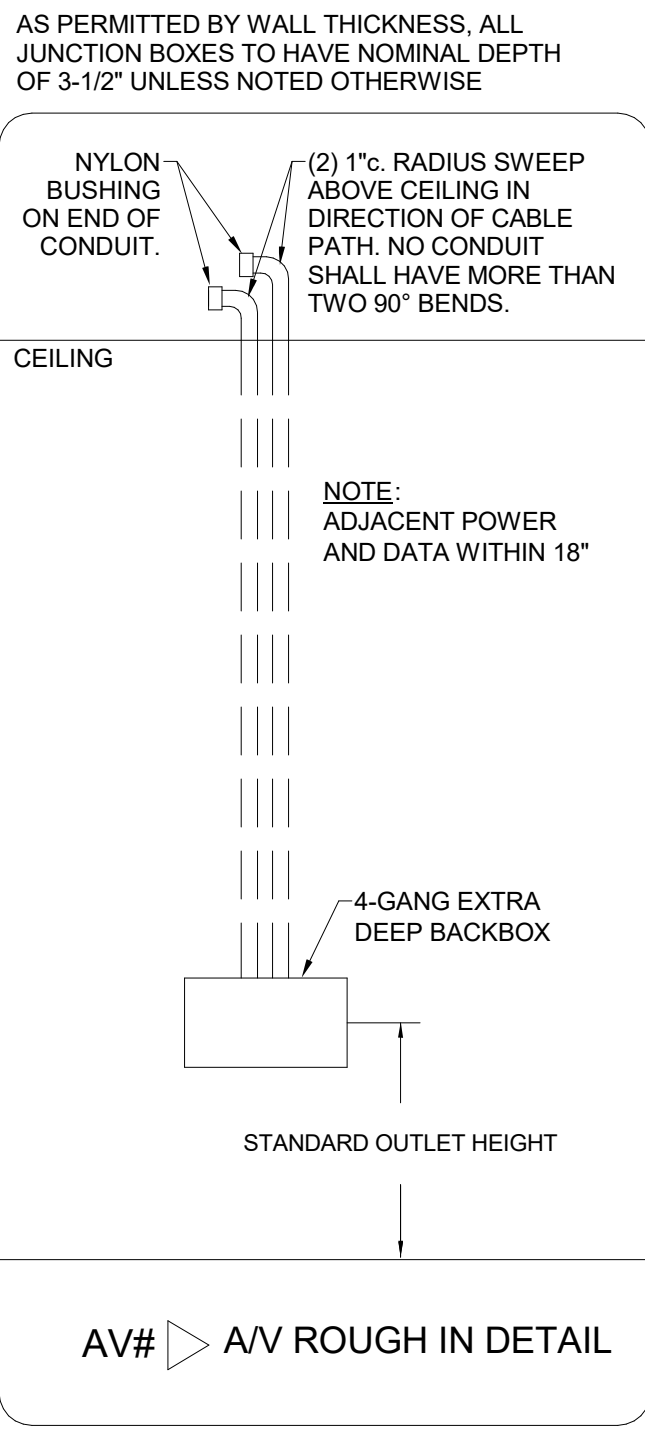


- GENERAL NOTES:
1. REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 2. DOOR DETAIL INDICATES DOOR HANDLE OR CRASHBAR ON SECURED SIDE OF DOOR FOR REFERENCE ONLY. REFER TO DOOR HARDWARE DIVISION SPECIFICATIONS FOR ADDITIONAL INFORMATION.

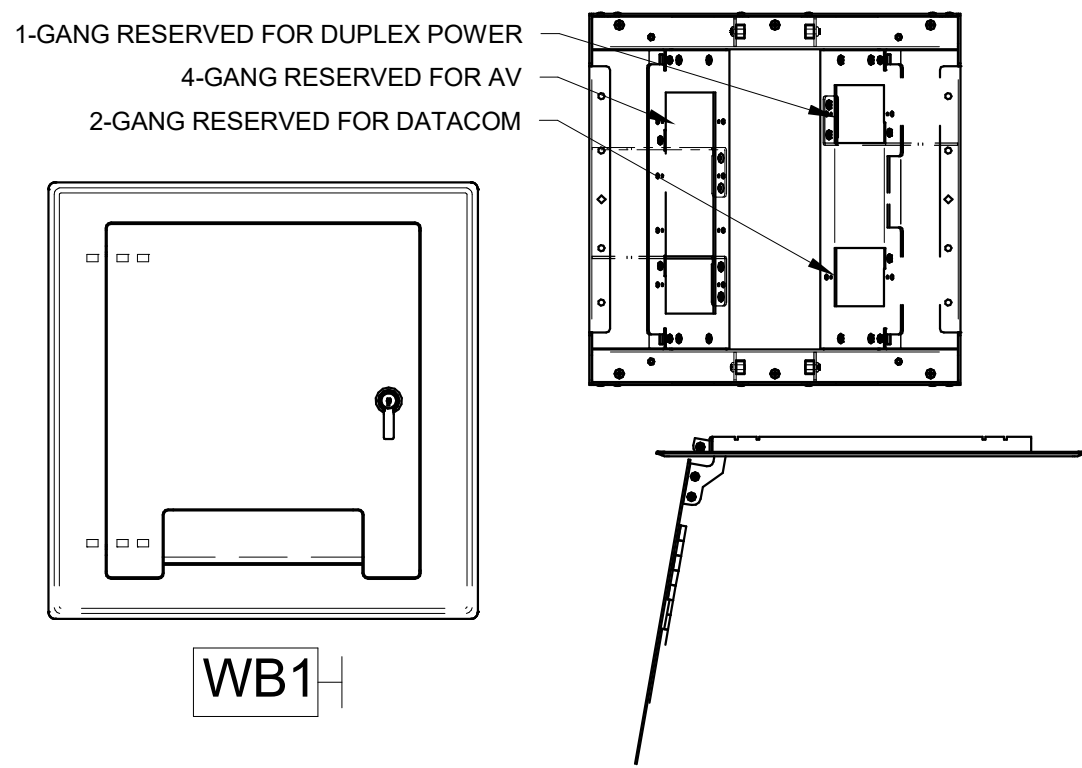
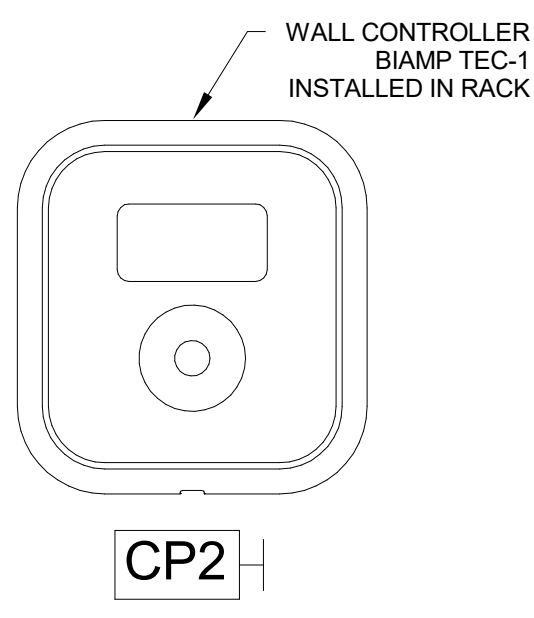
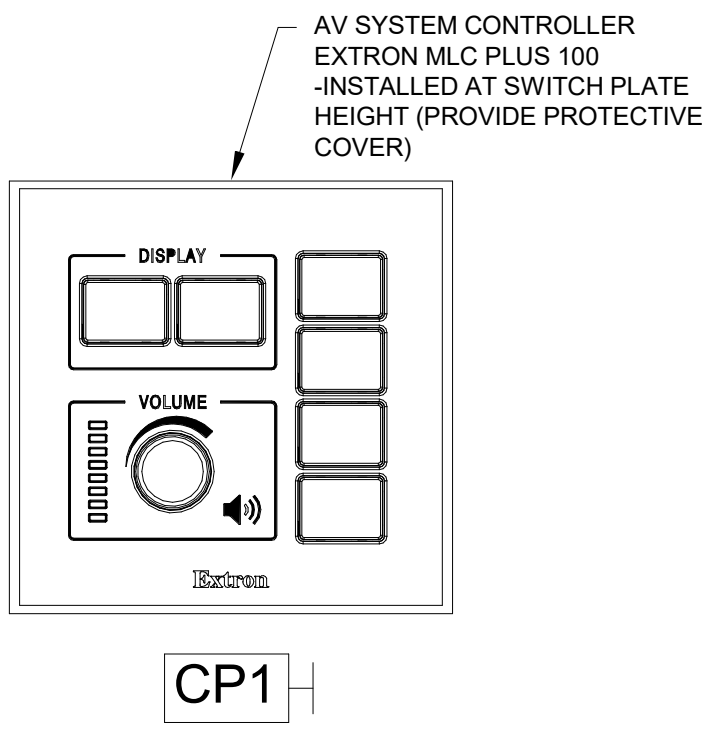
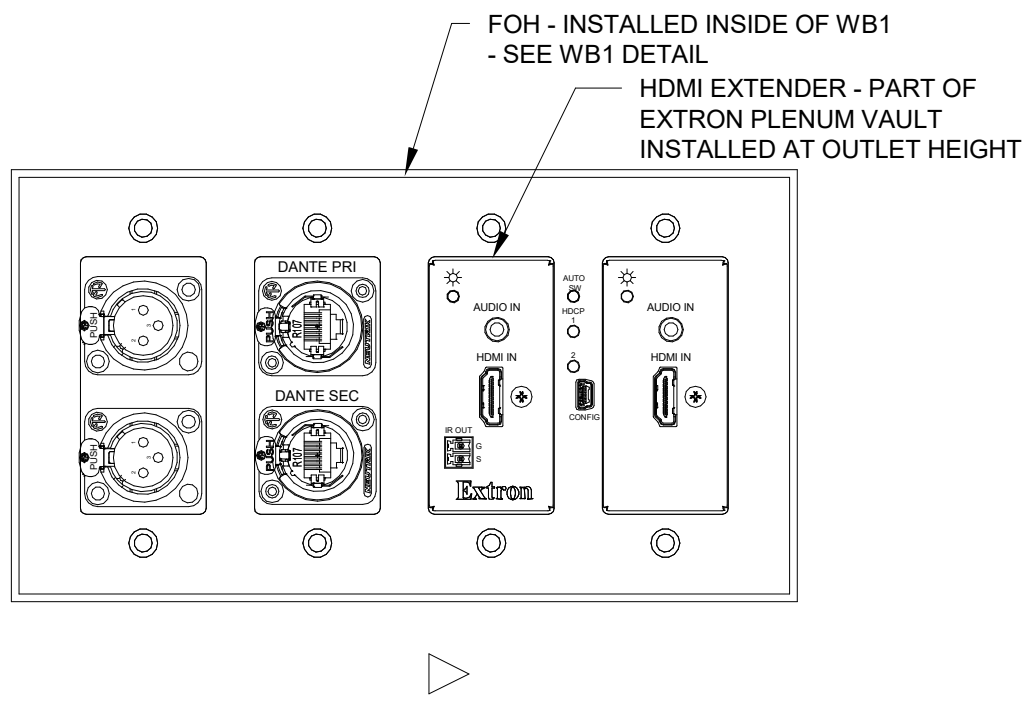
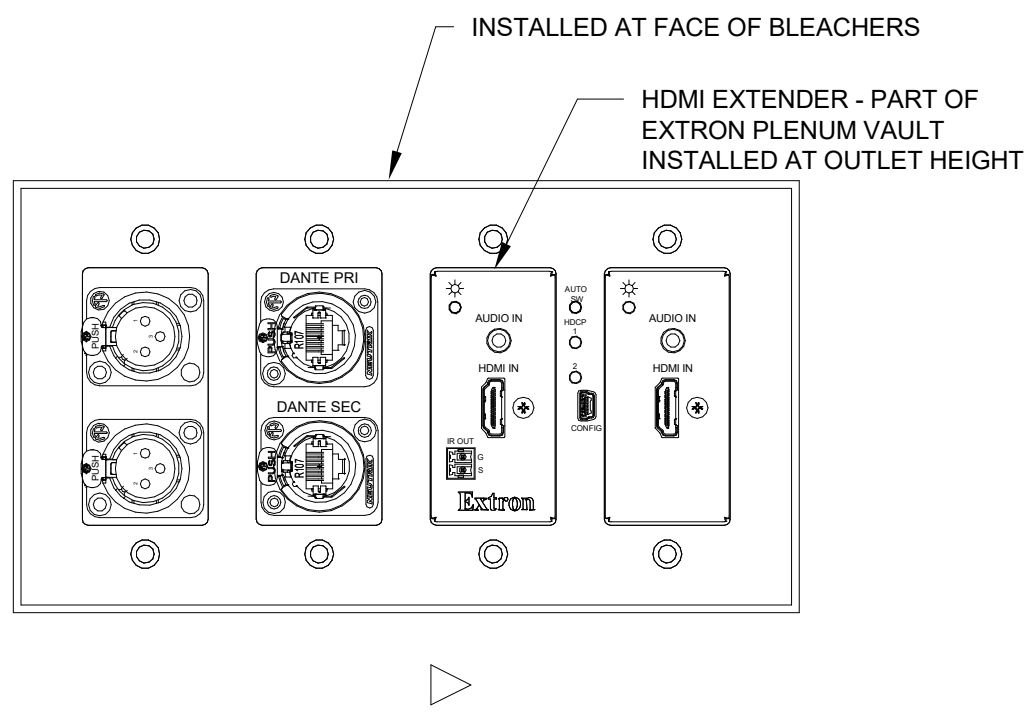


2 TYPICAL UNIVERSAL SINGLE DOOR ROUGH-IN DETAIL CR - TYPE 2
SCALE: NTS

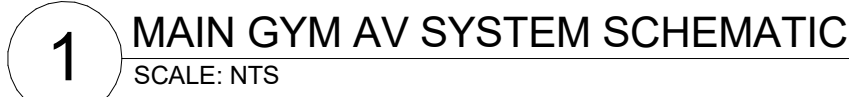




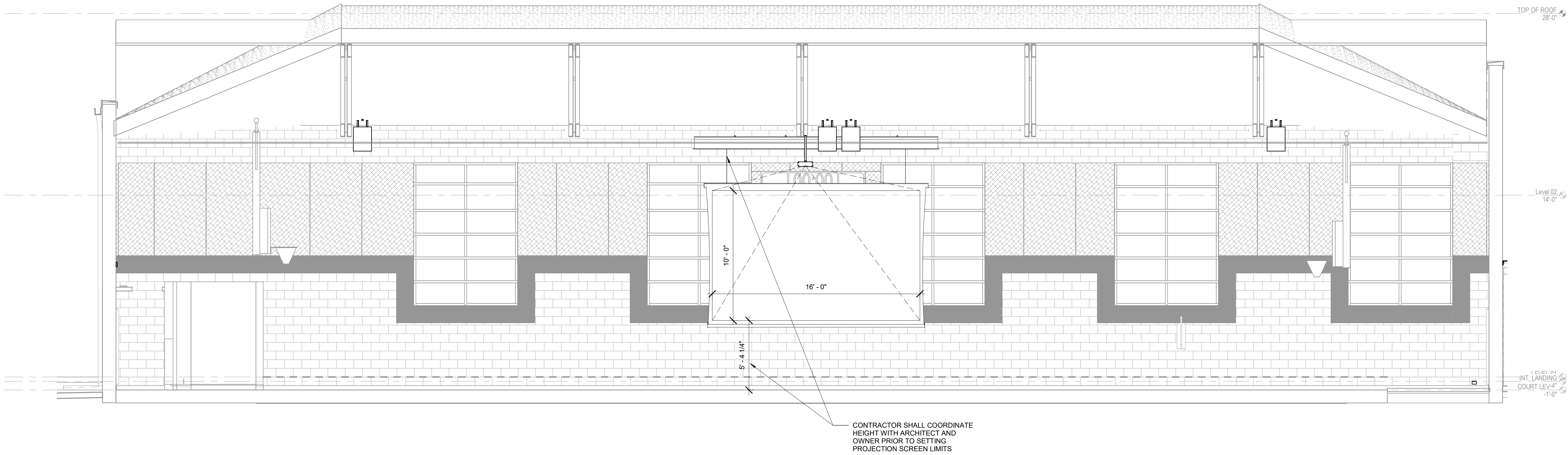
1 A/V ROUGH-IN DETAILS, PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE
SCALE: NTS



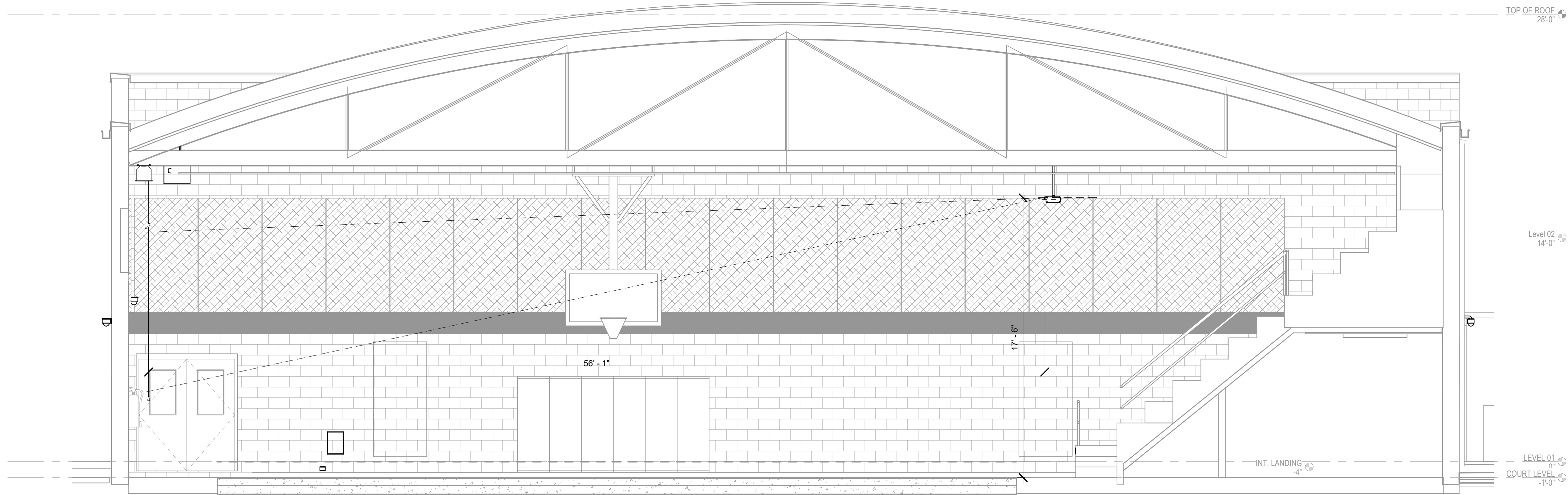
2 A/V ROUGH-IN DETAILS, PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE
SCALE: NTS



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.

AGENDA ITEM REPORT



To: Historic Preservation Commission
Subject: Consideration and possible action on a Certificate of Appropriateness request for a new Hutto ISD Administration Building at the northwest corner of Redbud Street and Taylor Street.
Meeting: Tuesday, July 27, 2021
Department: Development Services
Staff Contact: Ashley Lumpkin

BACKGROUND INFORMATION:

Hutto ISD is proposing a new Administration Building on a vacant portion of their property. The proposed building will be east of the existing railroad depot with frontage along Red Bud Street and Taylor Street.

SUMMARY OF REQUEST:

The proposed Administration Building is 4,800 square feet and is L-Shaped to help limit the removal of trees. There are 4 trees proposed for removal.

- Tree 18321 is a Pecan that is 13 and 10 inches (multi-trunk);
- Tree 18322 is a Pecan that is 18 inches;

These trees fall under 10.407.8 of the UDC and require replacement for the removal.

The building itself will match the materials and colors that are included in the packet.

STAFF REVIEW:

Staff has reviewed the application and recommends the Historic Preservation Commission approve the Certificate of Appropriateness with the condition that the trees being removed are replaced per the UDC and the building colors come from the approved list of colors.

FINANCIAL IMPACT:

Not applicable.

POLICY IMPLICATIONS:

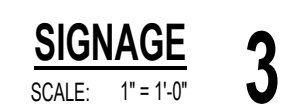
Not applicable.

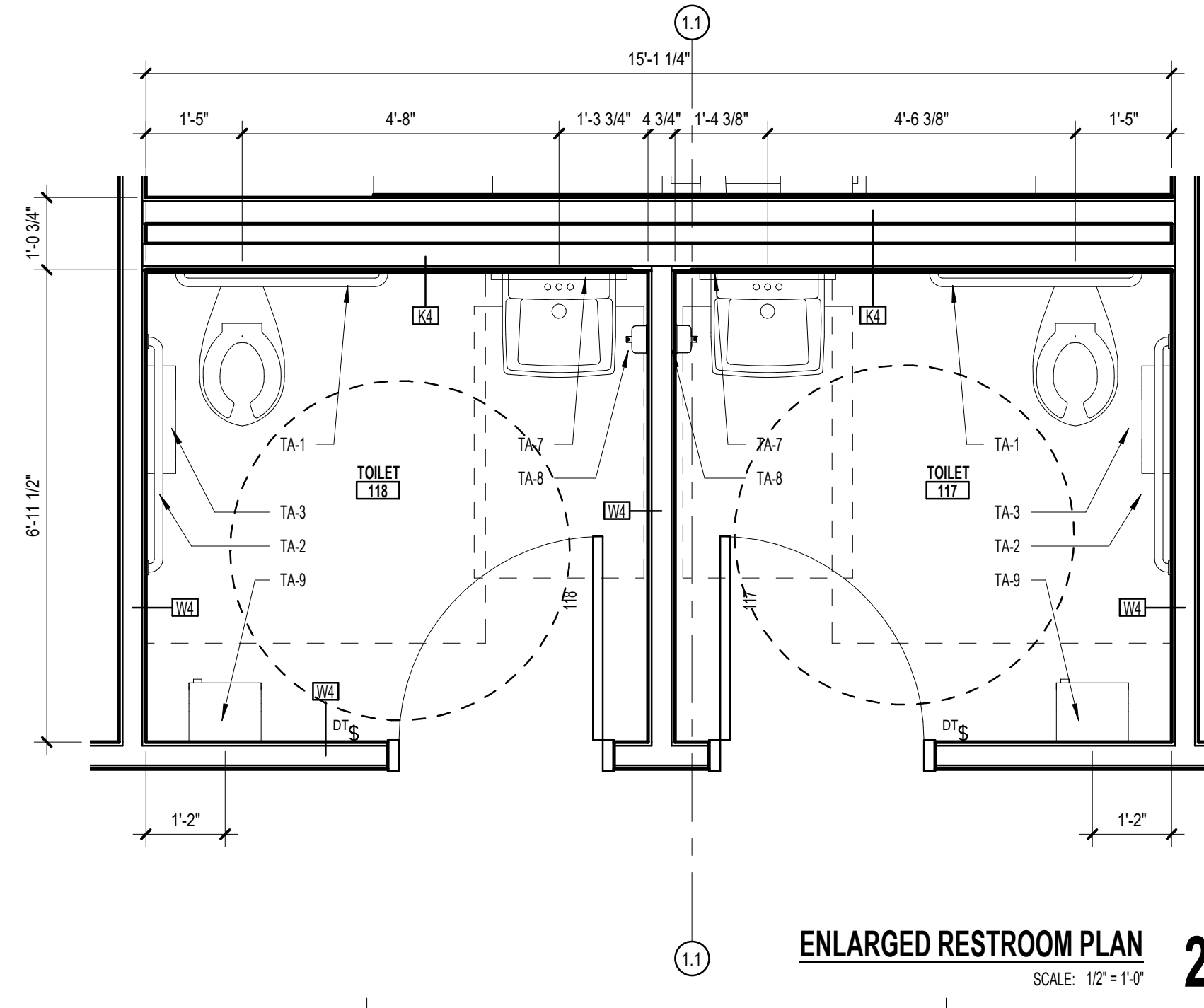
ATTACHMENTS:

AGENDA ITEM REPORT

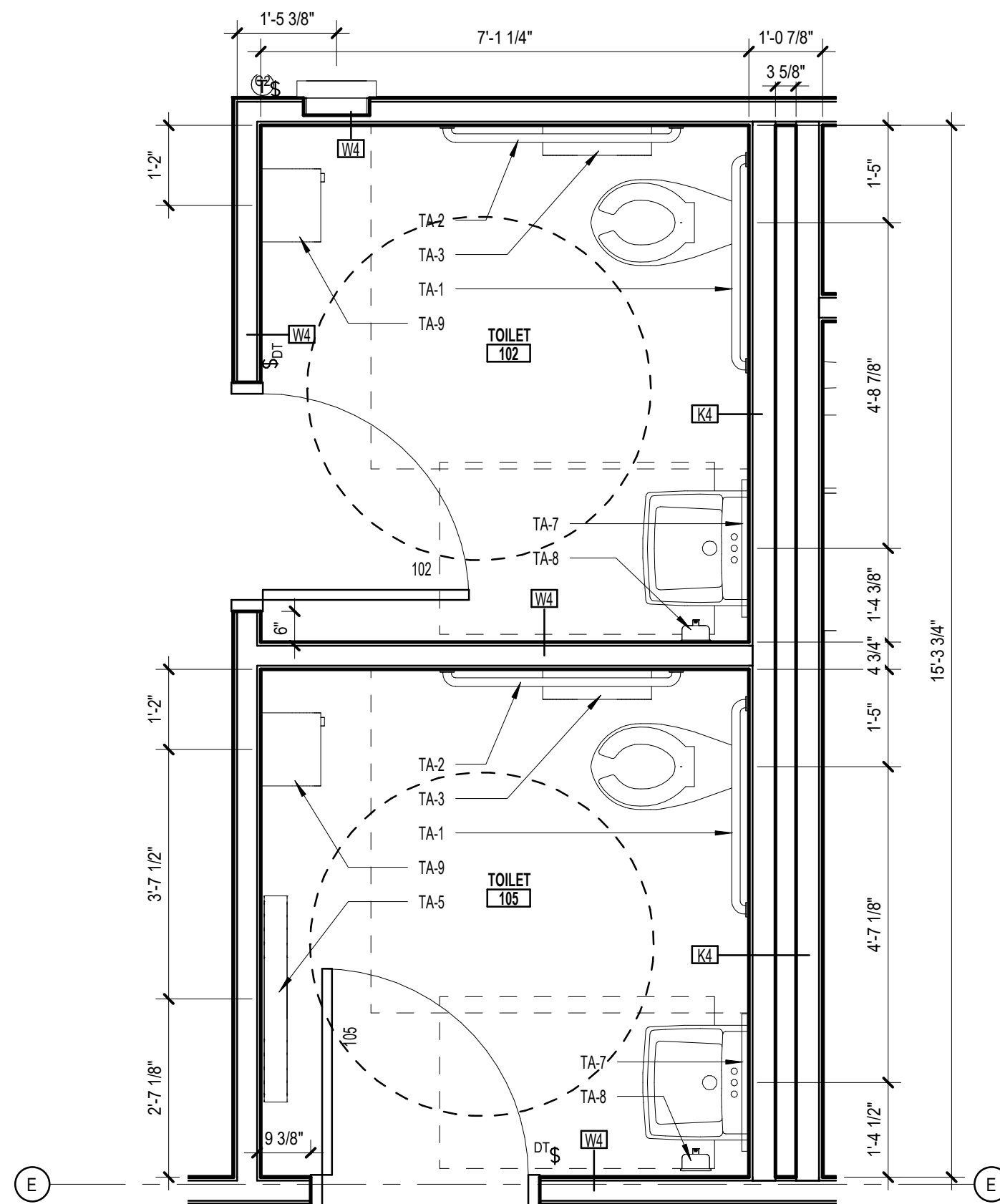


1. plans
2. Photos of existing conditions
3. Significant Architectural Details and Material Samples
4. T5 Light Fixture

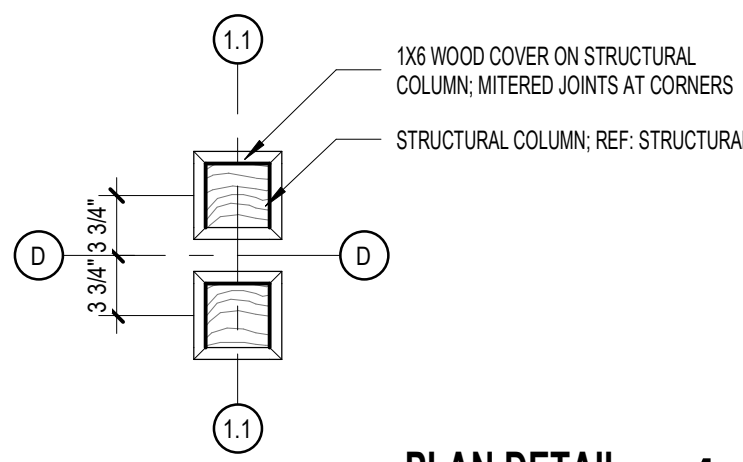




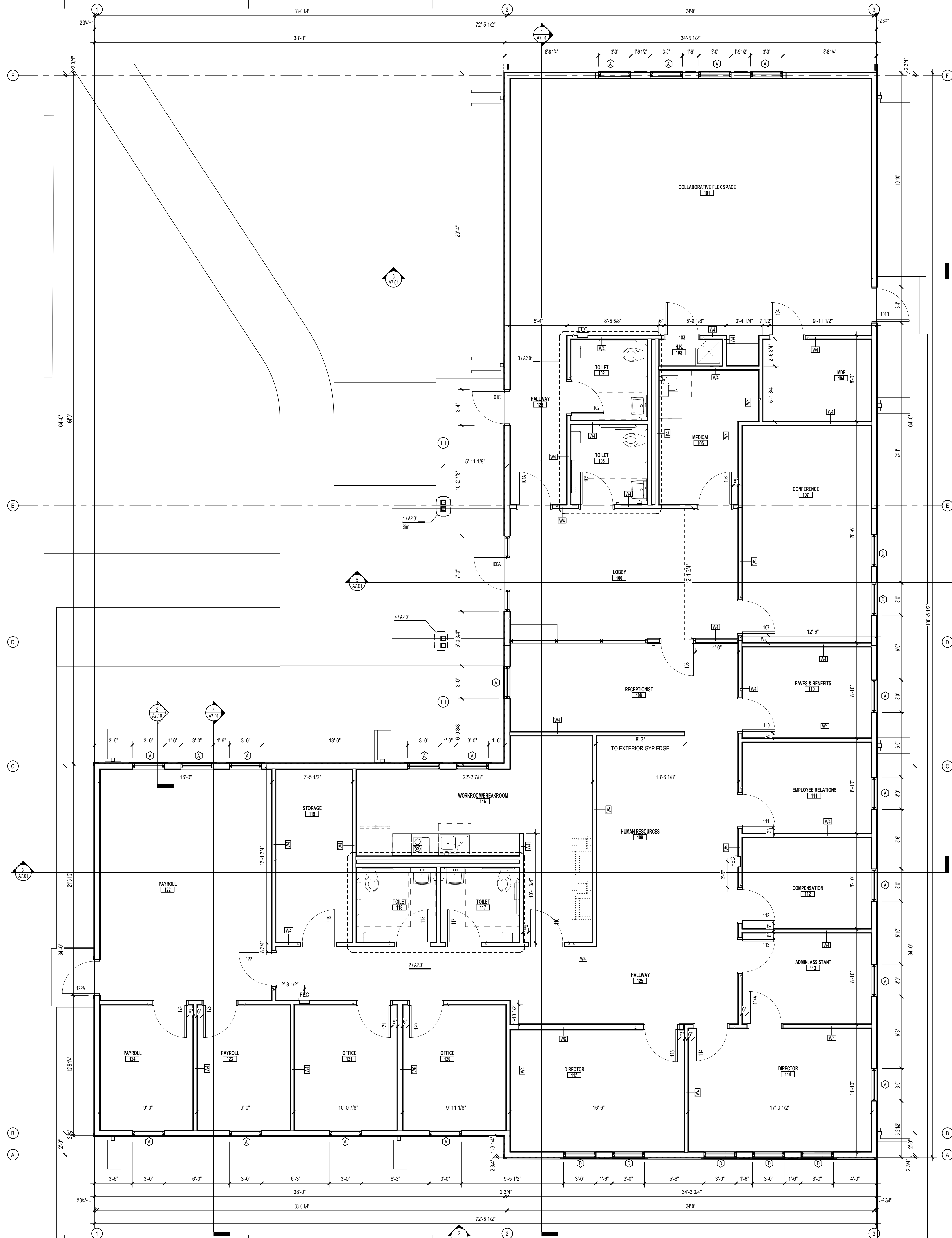
ENLARGED RESTROOM PLAN **2**
SCALE: 1/2" = 1'-0"



ENLARGED RESTROOM PLAN **3**
SCALE: 1/2" = 1'-0"



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



FLOOR PLAN GENERAL NOTES

1. REFER TO SHEET A 0.0 FOR ADDITIONAL GENERAL NOTES
2. RE. SHEET AT 10 FOR PARTITION TYPES
3. DIMENSIONS SHOWN ON THE FLOOR PLANS ARE TO THE FACE OF STUDFACE OF OUTFAÇE OF TILT WALL OF INTERIOR WALLS. UNLESS OTHERWISE INDICATED.
4. ALL SINKS AND LAVATORIES SHALL BE MOUNTED SO THAT THE CENTRELINE OF THE FIXTURE IS 15" MIN. TO THE FACE OF ADJACENT FIXED EQUIPMENT, PARTITIONS, CASEWORK, WALLS, ETC. AND 1'-3" MIN. TO THE CENTER OF AN ADJACENT FLOOR.
5. REFER TO SHEETS A 3 SHEETS FOR TOILET ROOM DESIGNATIONS, TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES AND TOILET ACCESSORIES.
6. PROVIDE MINIMUM 1'-4" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EVERY DOOR WITH A CLOSER & LATCH. PROVIDE MINIMUM 1'-6" CLEAR AT THE PULL SIDE OF EVERY DOOR. UNLESS SPECIFICALLY DIMENSIONED, NOTED, OR SHOWN OTHERWISE.

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' DIAMETER ADA TURN AROUND |

FLOOR PLAN NOTES BY NUMBER

- | | |
|-------|------------------------------|
| TA-1 | 36" STAINLESS STEEL GRAB BAR |
| TA-2 | 42" STAINLESS STEEL GRAB BAR |
| TA-3 | TOILET TISSUE DISPENSER |
| TA-4 | SANITARY NAPKIN DISPOSAL |
| TA-5 | BABY CHANGING STATION |
| TA-6 | SOAP DISPENSER |
| TA-7 | MIRROR 24"x48" |
| TA-8 | ELECTRIC HAND DRYER |
| TA-9 | PAPER TOWEL DISPENSER |
| TA-10 | MIRROR 24X12" |
| TA-11 | FOLDING SHOWER SEAT |
| TA-12 | MOP SINK |
| TA-13 | MOP & BROOM HOLDER |
| TA-14 | ROBE HOOKS |
| TA-15 | SHOWER GRAB BARS |
| TA-16 | SHOWER CURTAIN AND ROD |

GENERAL NOTES

1. REFER TO ACCESSIBILITY SHEETS FOR MINIMUM DIMENSIONS.
2. PROVIDE PIPE GUARDS AT ALL EXPOSED LAVATORY PIPES, TYP. RE: MEP
3. REFER TO A3 SHEETS FOR HANDRAIL & GUARDRAIL DETAILS

HUTTO ISD ADMINISTRATION BUILDING

HUTTO ISD

200 COLLEGE STREET
HUTTO, TX, 78634



DATE: 06/11/2021

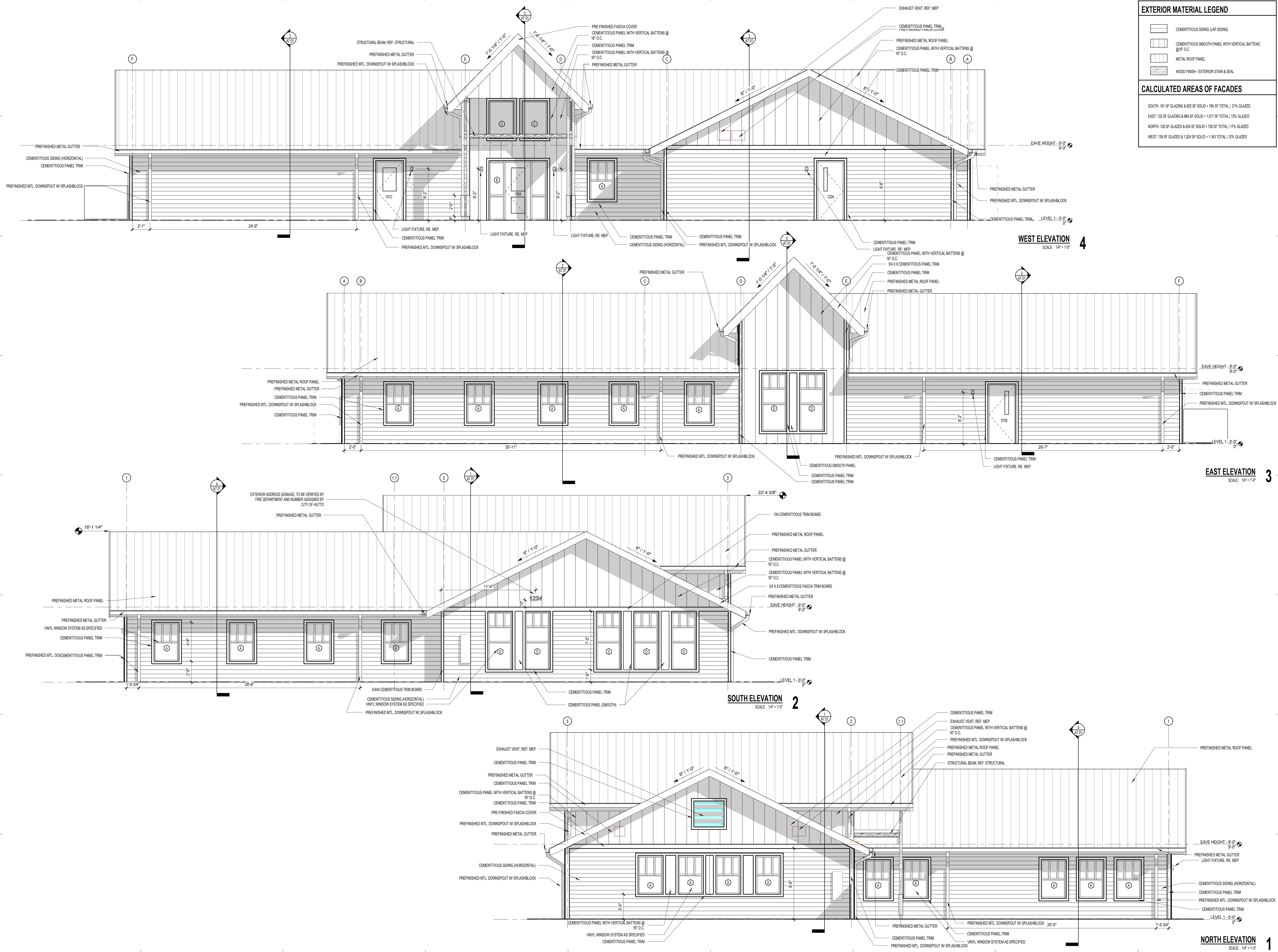
PROJECT NO.	20-045						
DATE:	06/11/2021						
DRAWN BY: DRW	CHECKED BY: CHK						
REVISIONS:							
<table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Date	Description				
No.	Date	Description					

BID SET
A2.01
FLOOR PLAN



STANDING SEAM METAL ROOF





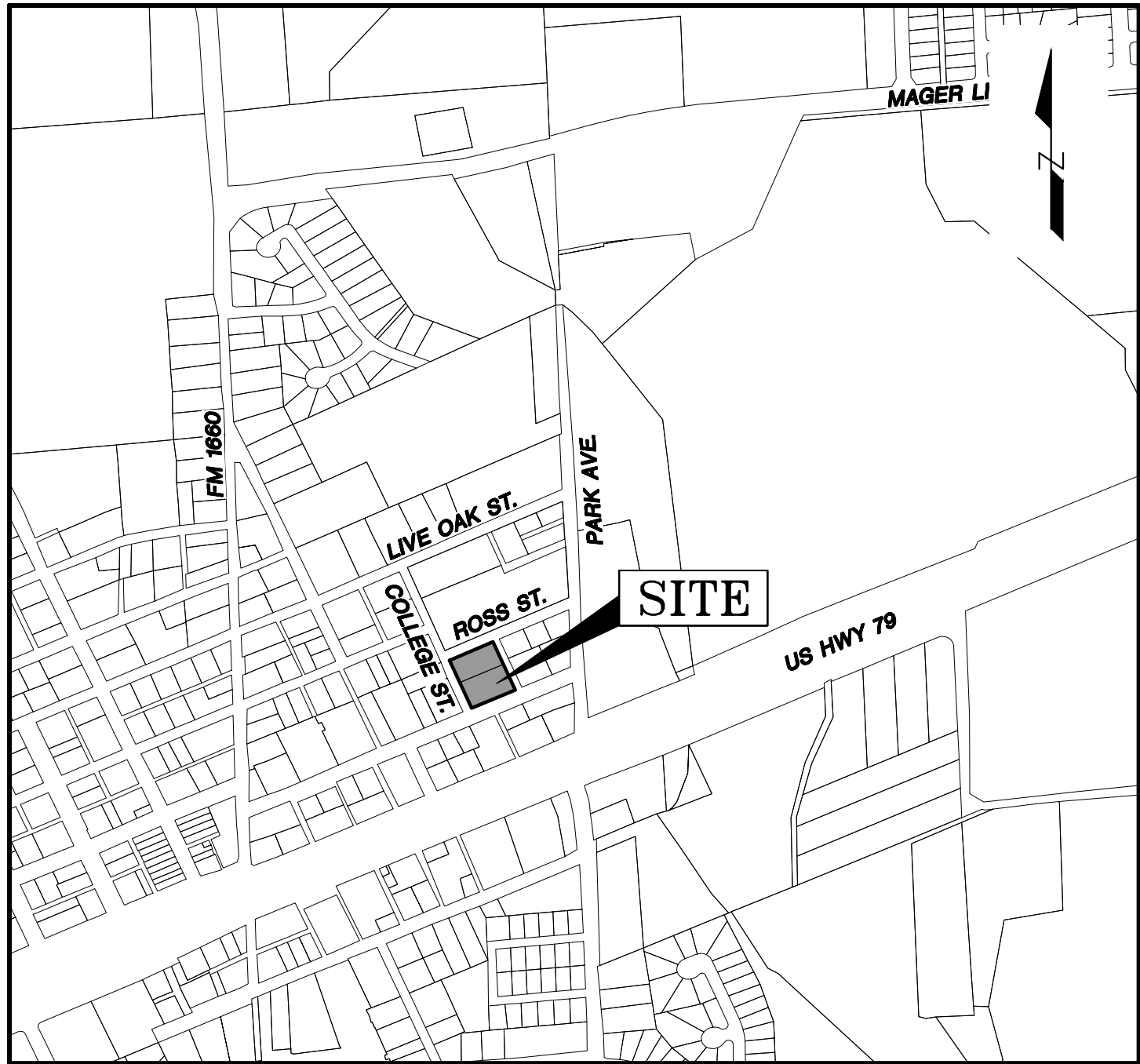
EXTERIOR MATERIAL LEGEND	
	CEMENTITIOUS SIDING (LAP SIDING)
	CEMENTITIOUS SMOOTH PANEL WITH VERTICAL BATTENS @ 18" O.C.
	METAL ROOF PANEL
	WOOD FINISH - EXTERIOR STAIN & SEAL

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 ADMINISTRATION BUILDING 302 COLLEGE STREET HUTTO, TEXAS 78634



LOCATION MAP
N.T.S.

EDWARDS AQUIFER:

1. 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.

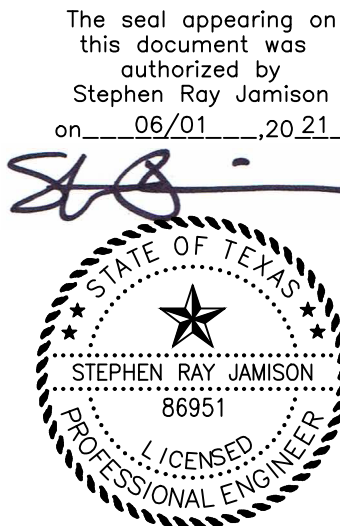
SITE PLAN COMPONENTS - ALL BUILDING AND STRUCTURAL IMPROVEMENTS SHOWN HEREON ARE SHOWN FOR CONCEPTUAL PURPOSES ONLY. JAMISON CIVIL ENGINEERING LLC IS NOT RESPONSIBLE OR LIABLE FOR THE DESIGN OF BUILDING AND STRUCTURAL IMPROVEMENTS BY OTHERS.

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 | GENERAL DETAILS |
| 12 | UTILITY PLAN |
| 13 | 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

HUTTO ISD ADMINISTRATION
BUILDING

302 COLLEGE ST., HUTTO, TX 78634

HUTTO INDEPENDENT SCHOOL
DISTRICT
200 COLLEGE STREET
HUTTO, TX 78634

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

COVER SHEET

100% CHECK SET

CITY OF HUTTO
GENERAL CONSTRUCTION NOTES
(UPDATED MARCH 2019)

1. THE CONTRACTOR IS TO CONTACT ONE OF THE FOLLOWING:
TEXAS811 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 METERED.
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 ADMINISTRATION
BUILDING

HUTTO INDEPENDENT SCHOOL
DISTRICT

200 COLLEGE STREET
HUTTO, TX 78634

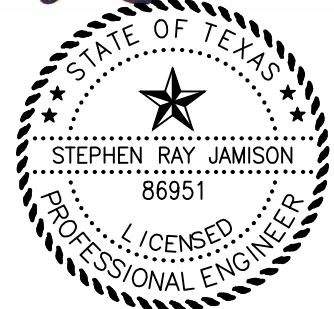
302 COLLEGE ST., HUTTO, TX 78634

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

PROJECT NO. 20-038
DATE XXXXX/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 06/01/2021



JAMISON CIVIL ENGINEERING LLC

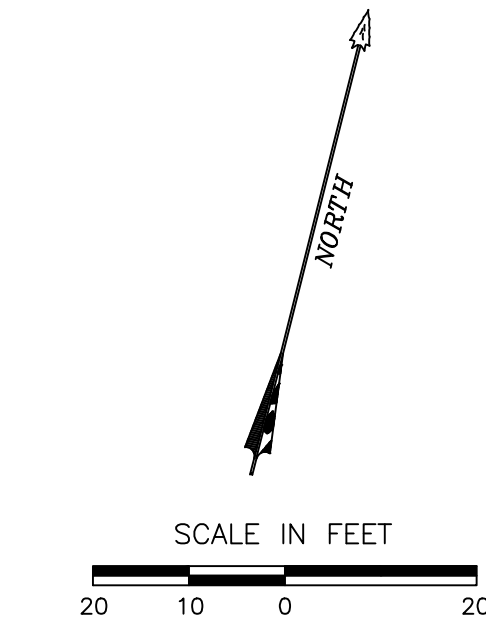
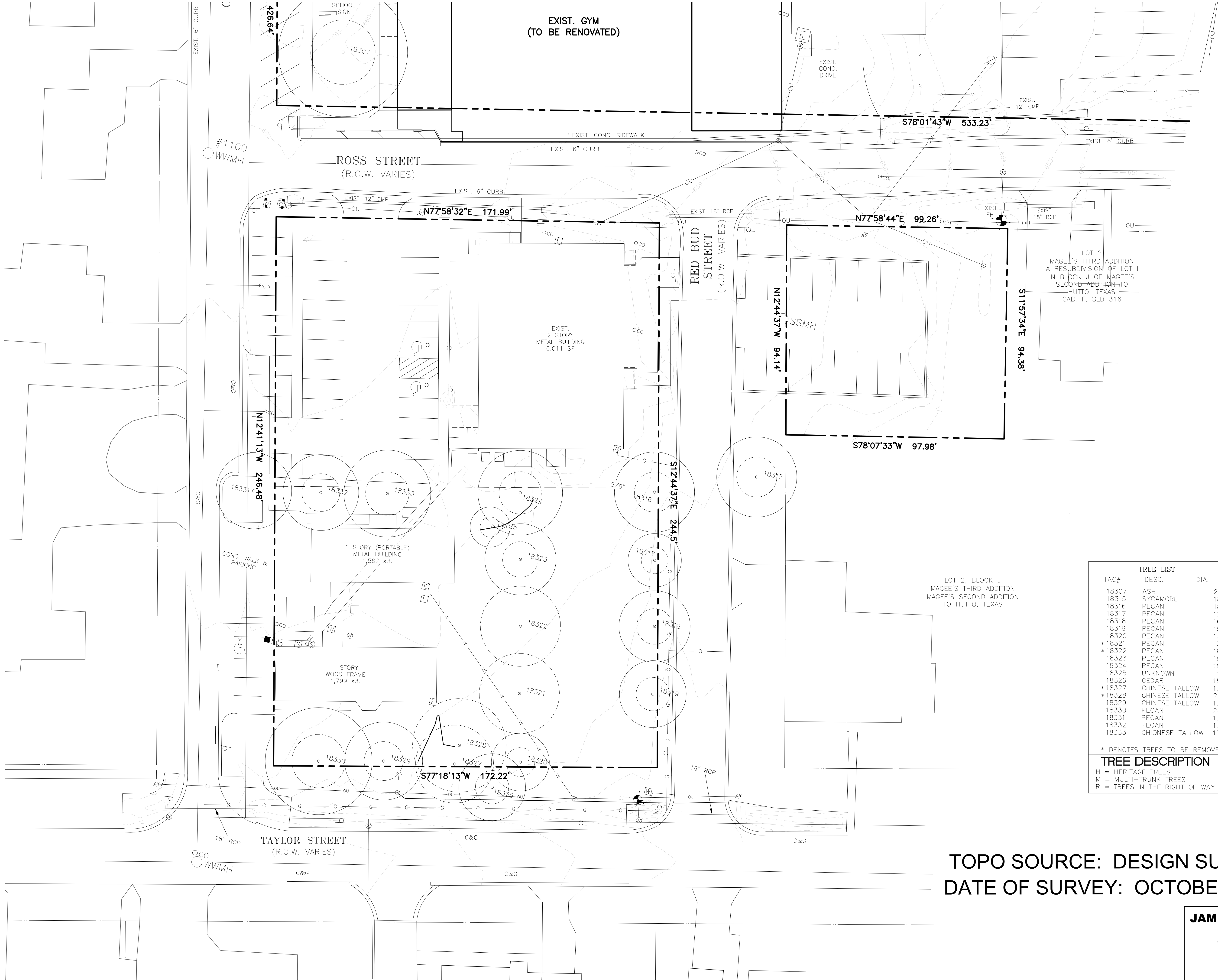
(TX. PE FIRM REG. #F-17756)
13812 RESEARCH BLVD. #B-2
AUSTIN, TEXAS 78750
OFFICE: (737) 484-0880
INFO@JAMISONENG.COM

JCE

GENERAL
NOTES

100% CHECK SET

02 of 13



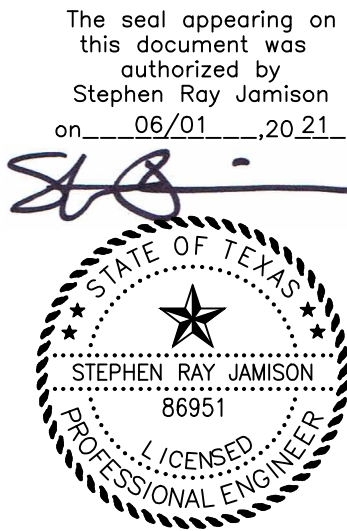
- LEGEND**
- PROPERTY LINE
 - LOT LINE
 - EASEMENT LINE
 - EXISTING CONTOUR LINE
 - EXISTING TREE
 - DEMOLITION AREA

BENCHMARK:
BM#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.
18307	ASH	29
18315	SYCAMORE	18
18316	PECAN	18
18317	PECAN	12
18318	PECAN	16
18319	PECAN	15
18320	PECAN	13
*18321	PECAN	13 10
*18322	PECAN	18
18323	PECAN	16
18324	PECAN	19
18325	UNKNOWN	9
18326	CEDAR	15
*18327	CHINESE TALLOW	13 9
*18328	CHINESE TALLOW	21
18329	CHINESE TALLOW	13 9
18330	PECAN	24
18331	PECAN	17
18332	PECAN	17
18333	CHINESE TALLOW	13 13

* 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

JCE

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

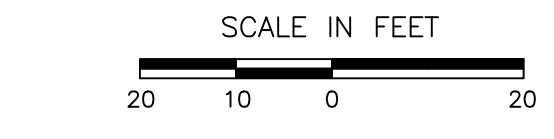
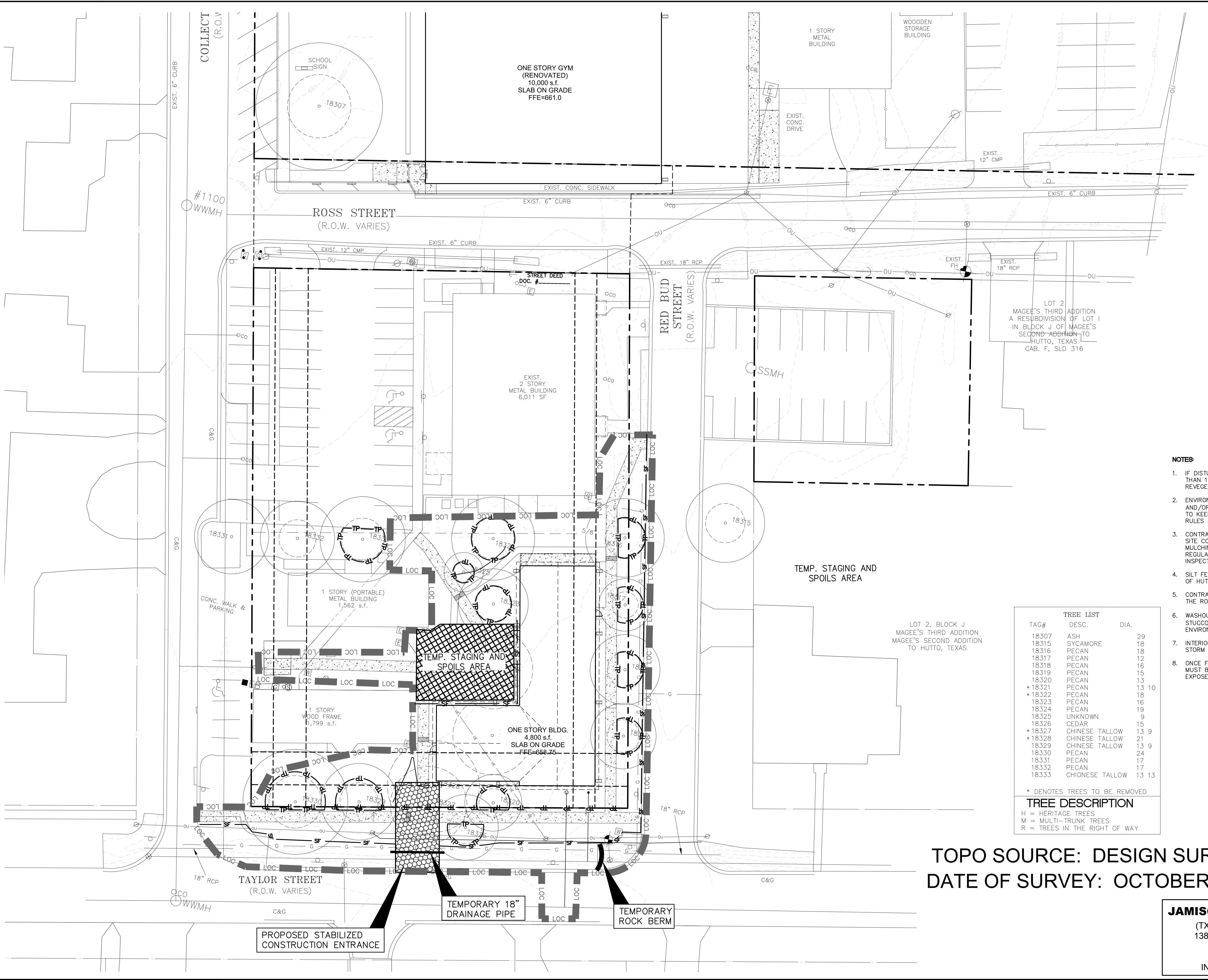
HUTTO ISD ADMINISTRATION BUILDING
302 COLLEGE ST., HUTTO, TX 78634

HUTTO INDEPENDENT SCHOOL DISTRICT
200 COLLEGE STREET
HUTTO, TX 78634

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

EXISTING CONDITIONS & DEMOLITION PLAN
100% CHECK SET

03 of 13



- 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.
18307	ASH	29
18315	SYCAMORE	18
18316	PECAN	18
18317	PECAN	12
18318	PECAN	16
18319	PECAN	15
18320	PECAN	13
*18321	PECAN	13 10
*18322	PECAN	18
18323	PECAN	16
18324	PECAN	19
18325	UNKNOWN	9
18326	CEDAR	15
*18327	CHINESE TALLOW	13 9
*18328	CHINESE TALLOW	21
18329	CHINESE TALLOW	13 9
18330	PECAN	24
18331	PECAN	17
18332	PECAN	17
18333	CHINESE TALLOW	13 13

* 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

JCE

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

HUTTO ISD ADMINISTRATION BUILDING
302 COLLEGE ST., HUTTO, TX 78634

HUTTO INDEPENDENT SCHOOL DISTRICT
200 COLLEGE STREET
HUTTO, TX 78634

EROSION SEDIMENTATION AND TREE PROTECTION PLAN
100% CHECK SET

04 of 13

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.

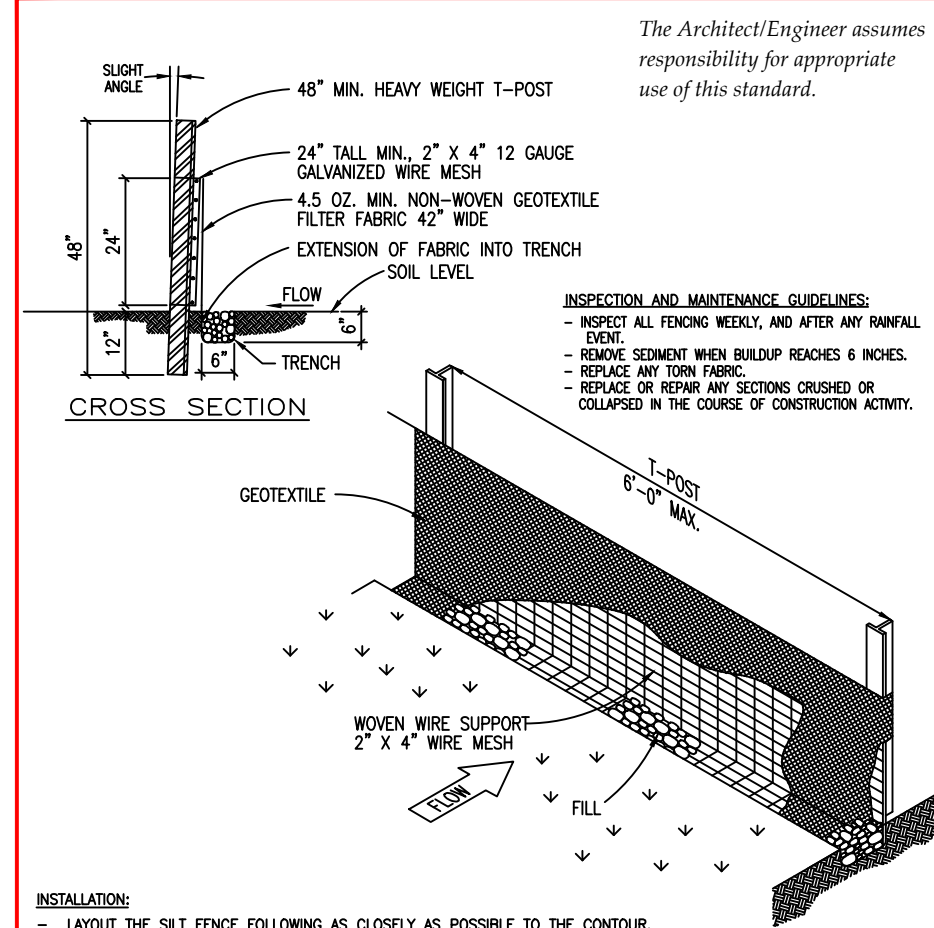
** HIGH SERVICE ROCK BERMS MAY BE REQUIRED IN AREAS OF ENVIRONMENTAL SIGNIFICANCE AS DETERMINED BY THE CITY OF GEORGETOWN.

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
DATE 1/2003



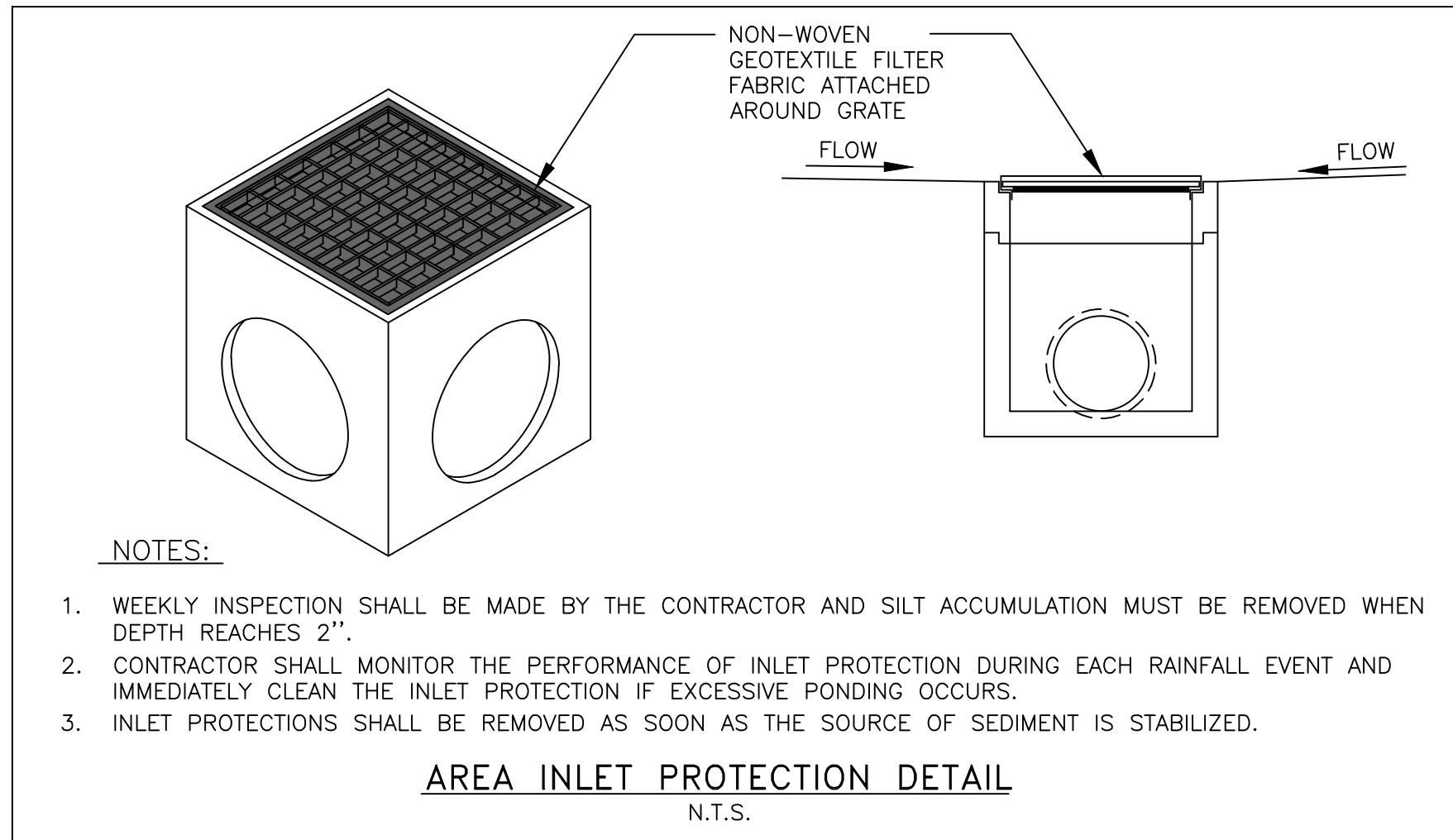
INSTALLATION:

- 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\"/>
- THE SILT FENCE TO BE INSTALLED WITH A SLIGHT ANGLE TOWARDS THE FLOW.
- INSIDE EXCAVATED TRENCH, THE FABRIC TO OVERLAP THE TOP OF THE WIRE BY 1\"/>
- ANCHOR THE SILT FENCE BY GRAVELLING WITH EXCAVATED DIRT AND ROCKS (NOT LARGER THAN 2").
- GEOTEXTILE SPLICES SHOULD BE A MINIMUM OF 18" WIDE ATTACHED IN AT LEAST 6 PLACES. SPLICES IN CONCENTRATED FLOW AREAS WILL NOT BE ACCEPTED.
- SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPIDE STORM FLOW OR DRAINAGE.



CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
SILT FENCE DETAIL

ADOPTED 6/21/2006
ECO2
DATE 1/2003
DATE 1/2003



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.

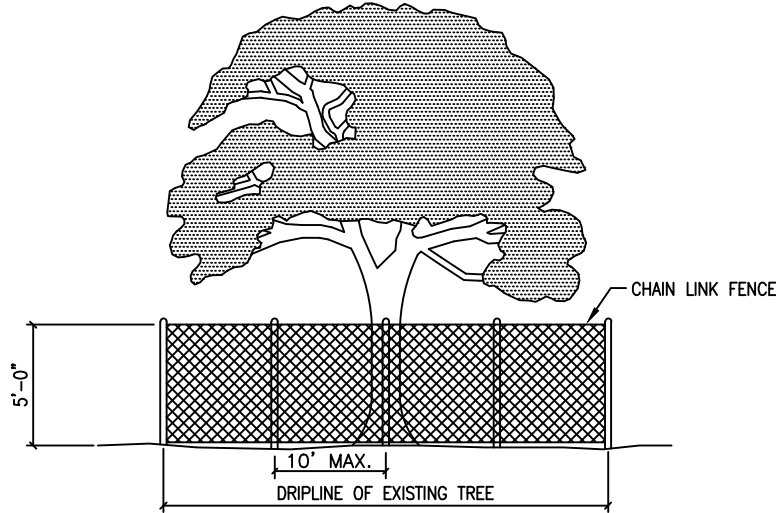
The Architect/Engineer assumes
responsibility for appropriate
use of this standard.



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

ADOPTED 6/21/2006
ECO9
DATE 1/2003
DATE 1/2003

- 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, 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.



NOTES:

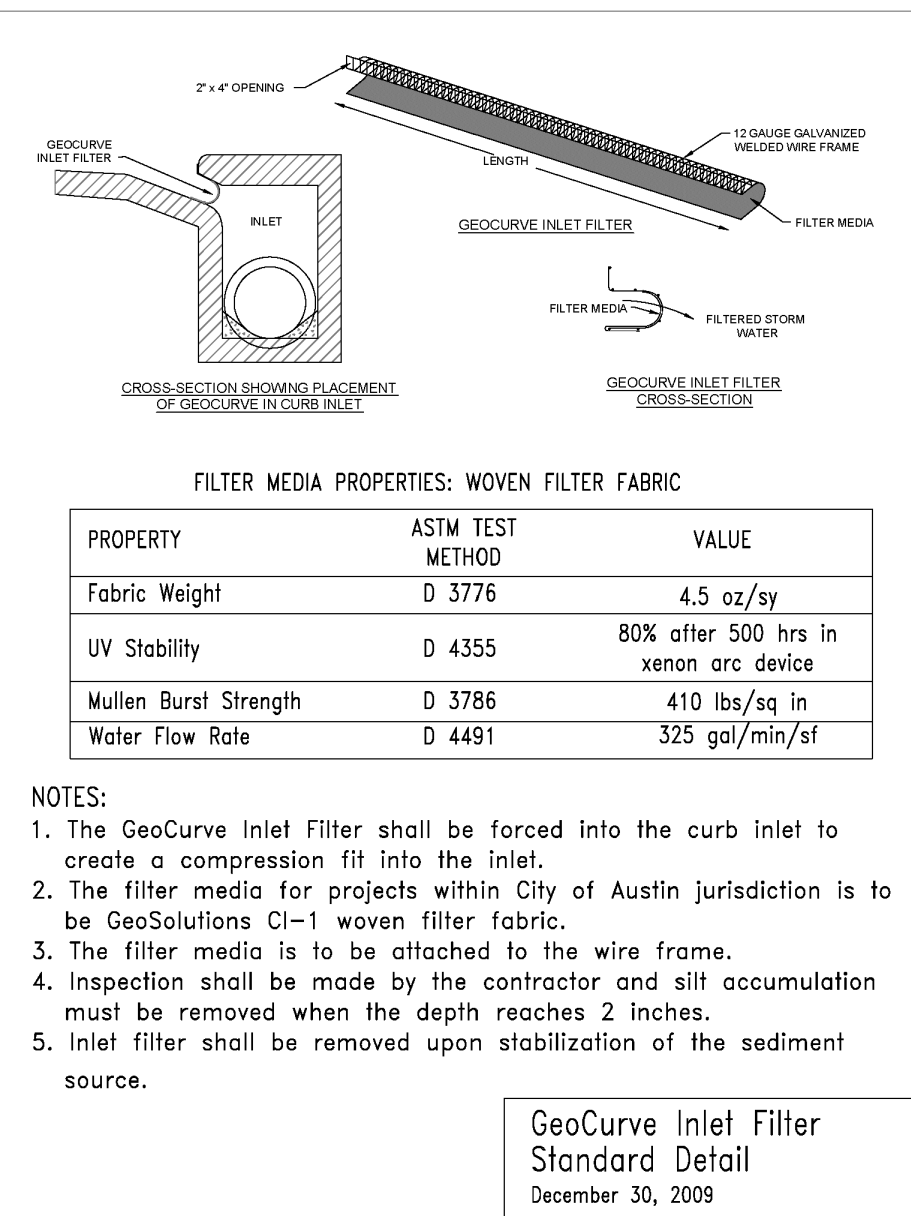
1. WHERE ANY EXCEPTIONS RESULT IN A FENCE BEING CLOSER THAN FOUR FEET (4'-0") TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF EIGHT FEET (8'-0"), OR TO THE LIMITS OF LOWER BRANCHING IN ADDITION TO THE REDUCED FENCING PROVIDED.
2. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY 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
EC10
DATE 1/2003
DATE 1/2003



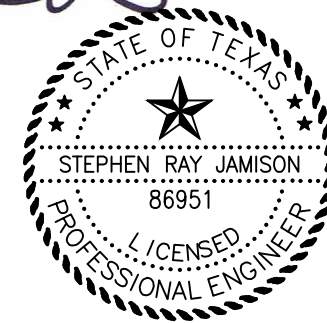
PROPERTY	ASTM TEST METHOD	VALUE
Fabric Weight	D 3776	4.5 oz/sy
UV Stability	D 4355	80% after 500 hrs in xenon arc device
Mullen Burst Strength	D 3786	410 lbs/sq in
Water Flow Rate	D 4491	325 gal/min/sf

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

The seal appearing on
this document was
authorized by
Stephen Ray Jamison
on 06/01/2021



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

HUTTO ISD ADMINISTRATION
BUILDING

302 COLLEGE ST., HUTTO, TX 78634

HUTTO INDEPENDENT SCHOOL
DISTRICT

200 COLLEGE STREET
HUTTO, TX 78634

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

No. Date Description

1
2
3
4
5
6

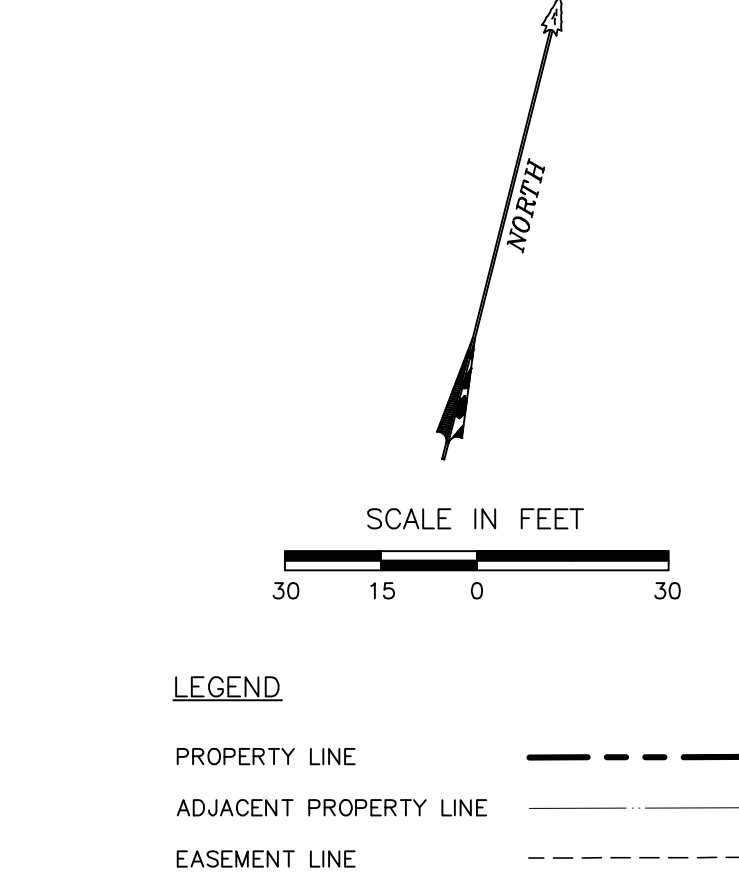
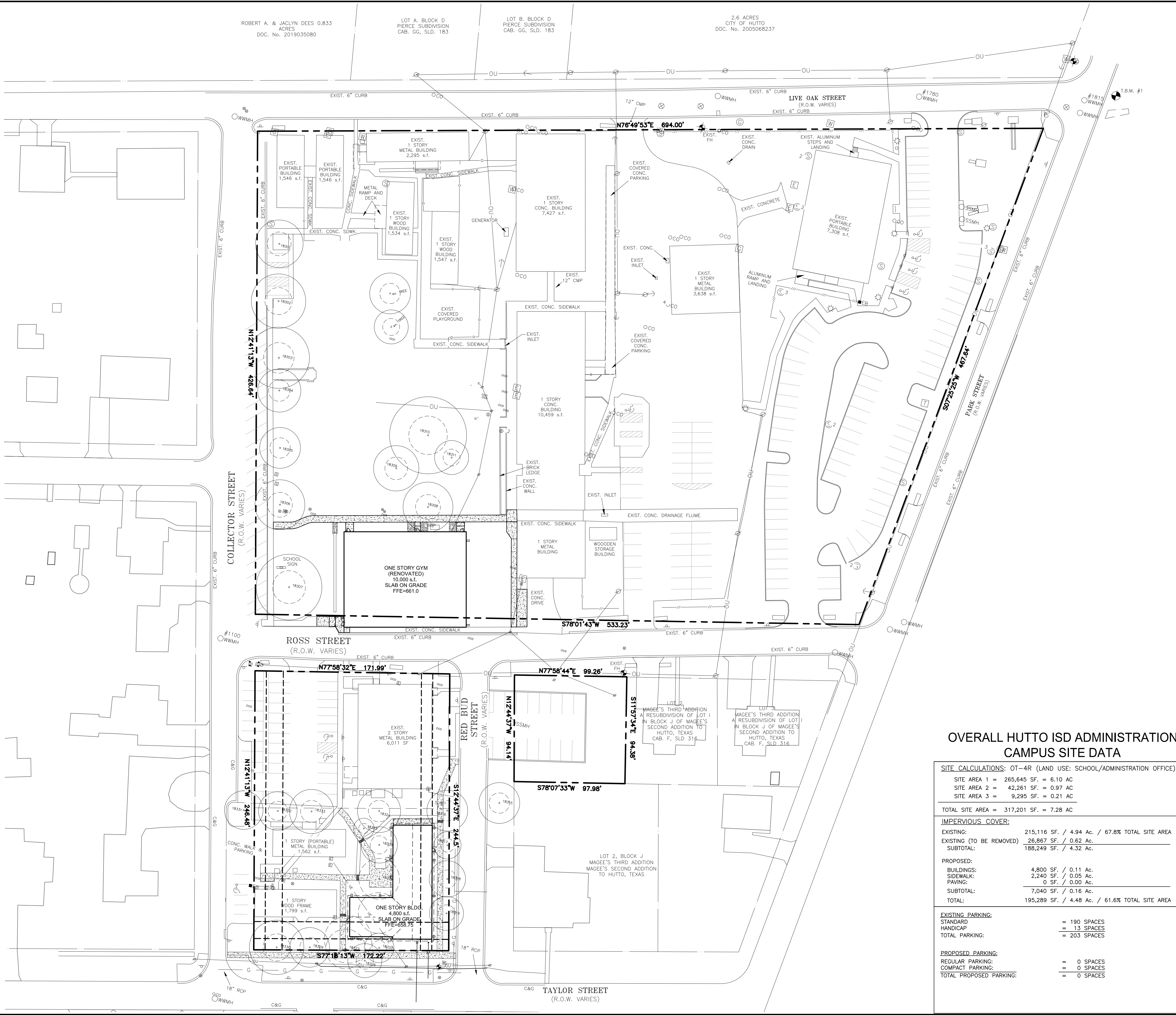
EROSION
SEDIMENTATION
CONTROL
DETAILS

100% CHECK SET

05 of 13

pfluger

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

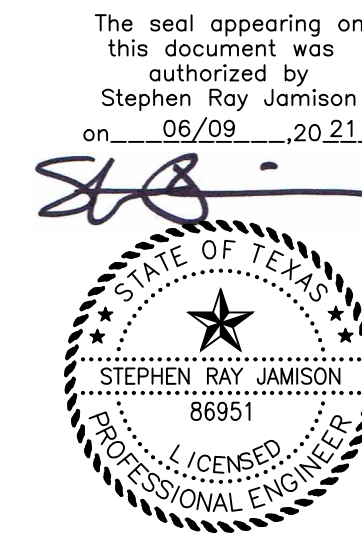


- SITE PLAN NOTES:**
- 6" RAISED CONCRETE CURBS SHALL BE PROVIDED AT THE END OF PARKING BAYS, LANDSCAPED ISLANDS AND AROUND THE PERIMETER OF ALL PARKING & DRIVE AREAS UNLESS OTHERWISE NOTED.
 - ALL CURB RETURNS SHALL BE 3' RADIUS UNLESS OTHERWISE NOTED.
 - THE MAXIMUM HEIGHT FOR PROPOSED BUILDING SHALL 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 11'4" MUST BE PROVIDED AT ACCESSIBLE PASSENGER LOADING ZONES AND ALONG VEHICLE ACCESS ROUTES TO SUCH AREAS FROM SITE ENTRANCES. A MINIMUM VERTICAL CLEARANCE OF 9'8" 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)



OVERALL HUTTO ISD ADMINISTRATION CAMPUS SITE DATA

SITE CALCULATIONS: OT-4R (LAND USE: SCHOOL/ADMINISTRATION OFFICE)	
SITE AREA 1 =	265,645 SF. = 6.10 AC
SITE AREA 2 =	42,261 SF. = 0.97 AC
SITE AREA 3 =	9,295 SF. = 0.21 AC
TOTAL SITE AREA = 317,201 SF. = 7.28 AC	
IMPERVIOUS COVER:	
EXISTING:	215,116 SF. / 4.94 Ac. / 67.8% TOTAL SITE AREA
EXISTING (TO BE REMOVED)	26,867 SF. / 0.62 Ac.
SUBTOTAL:	188,249 SF. / 4.32 Ac.
PROPOSED:	
BUILDINGS:	4,800 SF. / 0.11 Ac.
SIDEWALK:	2,240 SF. / 0.05 Ac.
PAVING:	0 SF. / 0.00 Ac.
SUBTOTAL:	7,040 SF. / 0.16 Ac.
TOTAL:	195,289 SF. / 4.48 Ac. / 61.6% TOTAL SITE AREA
EXISTING PARKING:	
STANDARD	= 190 SPACES
HANDICAP	= 13 SPACES
TOTAL PARKING:	= 203 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 ADMINISTRATION BUILDING

HUTTO INDEPENDENT SCHOOL DISTRICT

200 COLLEGE STREET
HUTTO, TX 78634

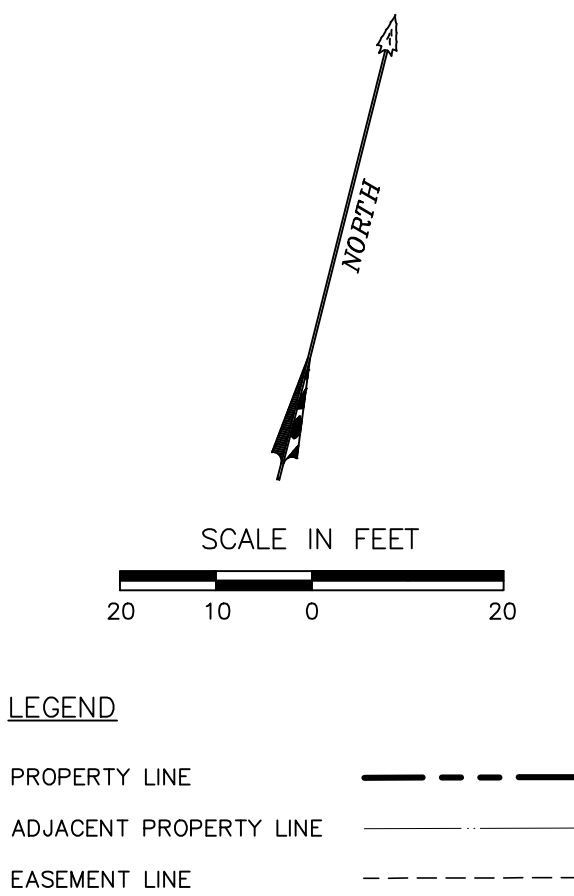
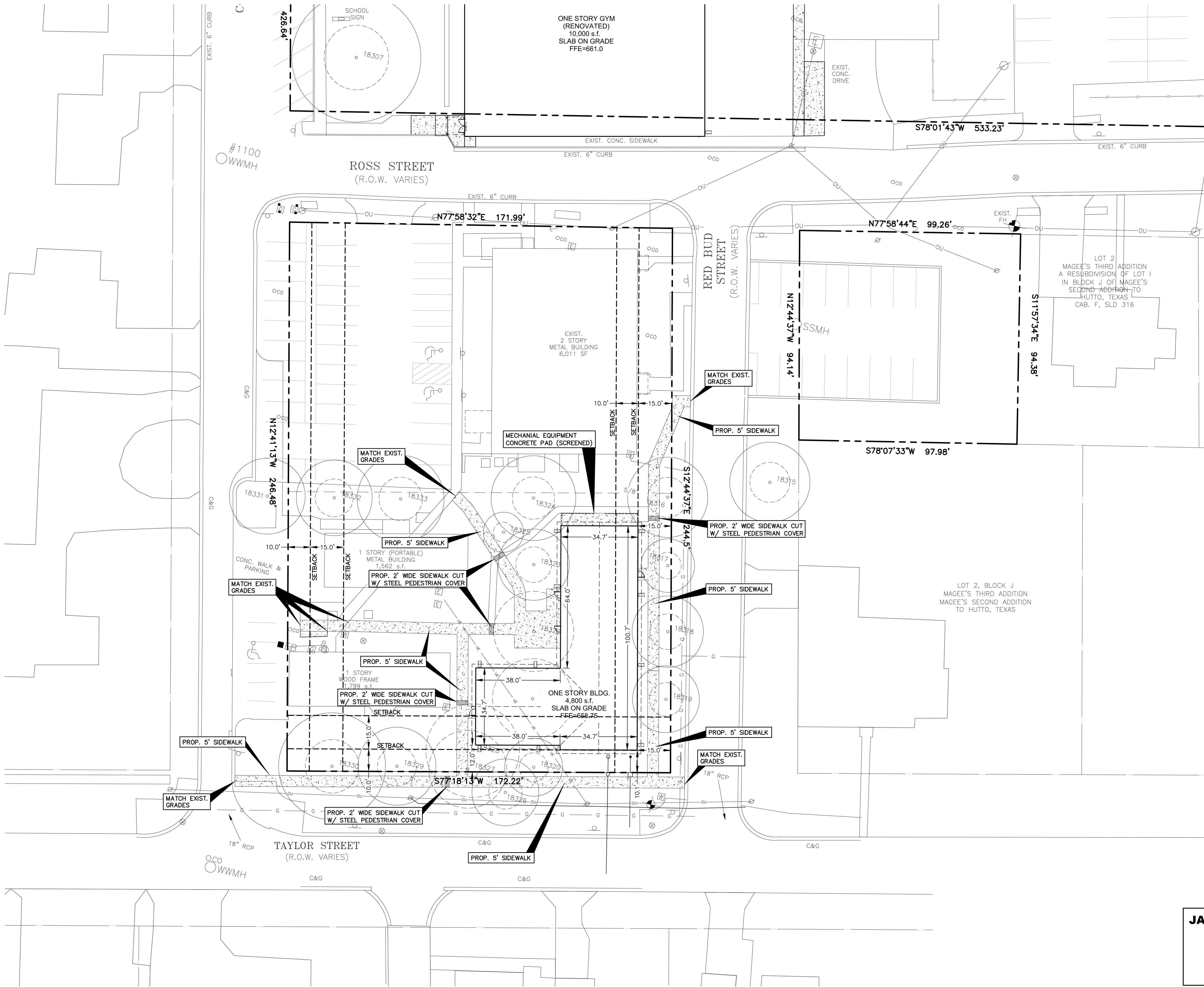
PROJECT NO. 20-038
DATE XXXX/XX/XX
AUTHOR: MM CHECKED BY: SRJ
REVISIONS:
1
2
3
4
5
6

OVERALL HUTTO ISD CAMPUS SITE PLAN

100% CHECK SET

302 COLLEGE ST., HUTTO, TX 78634

06 of 13



LEGEND
PROPERTY LINE
ADJACENT PROPERTY LINE
EASEMENT LINE

The seal appearing on this document was authorized by
Stephen Ray Jamison
on 06/09/2021
STATE OF TEXAS
STEPHEN RAY JAMISON
88951
LICENSED PROFESSIONAL ENGINEER

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 ADMINISTRATION
BUILDING**

302 COLLEGE ST., HUTTO, TX 78634

HUTTO INDEPENDENT SCHOOL
DISTRICT

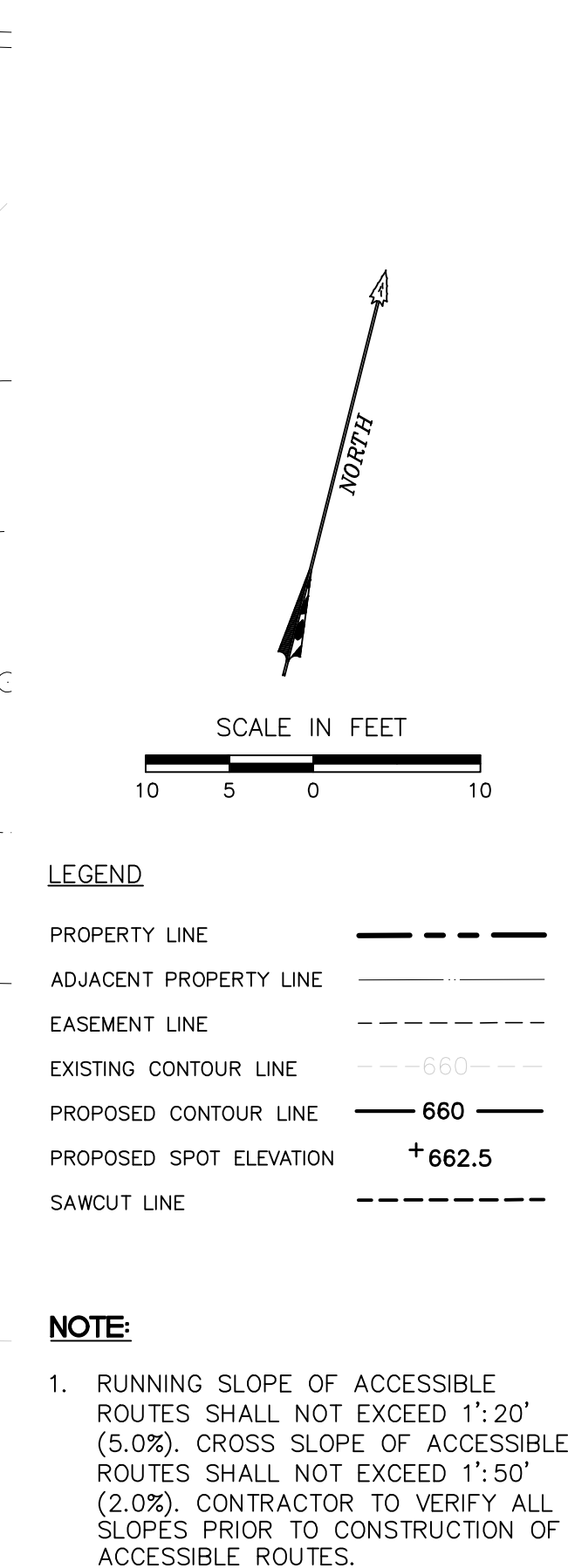
200 COLLEGE STREET
HUTTO, TX 78634

PROJECT NO.	20-038																					
DATE	XX/XX/20																					
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																						

SITE PLAN

100% CHECK SET

07 of 13



PROPERTY LINE ————

ADJACENT PROPERTY LINE ————

EASEMENT LINE ————

EXISTING CONTOUR LINE - - - - - 660 - - - - -

PROPOSED CONTOUR LINE ———— 660 ————

PROPOSED SPOT ELEVATION + 662.5

SAWCUT LINE ————

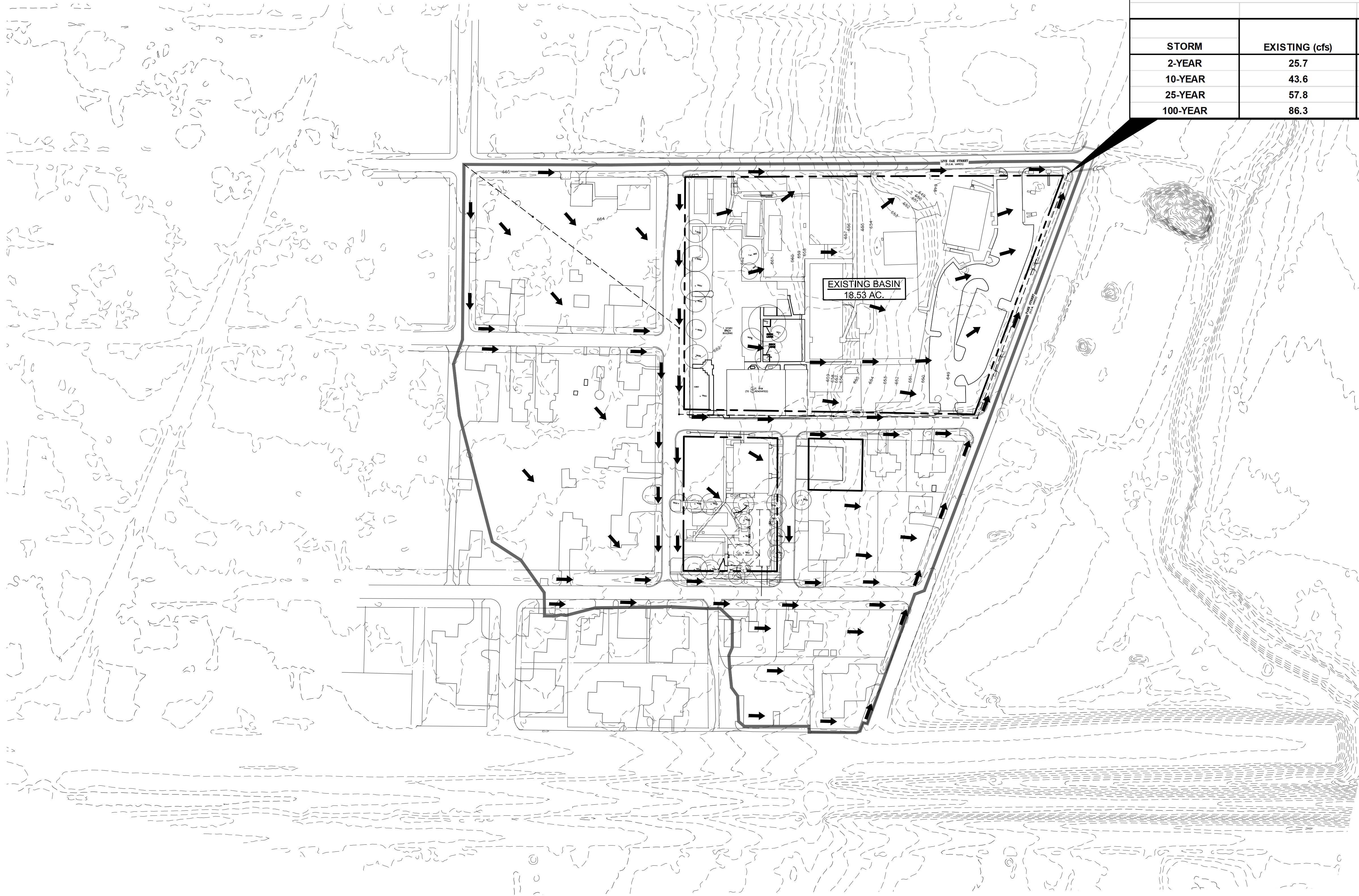
1. RUNNING SLOPE OF ACCESSIBLE ROUTES SHALL NOT EXCEED 1':20' (5.0%). CROSS SLOPE OF ACCESSIBLE ROUTES SHALL NOT EXCEED 1':50' (2.0%). CONTRACTOR TO VERIFY ALL SLOPES PRIOR TO CONSTRUCTION OF ACCESSIBLE ROUTES.

The seal appearing on
this document was
authorized by
Stephen Ray Jamison
on 06/09, 2021

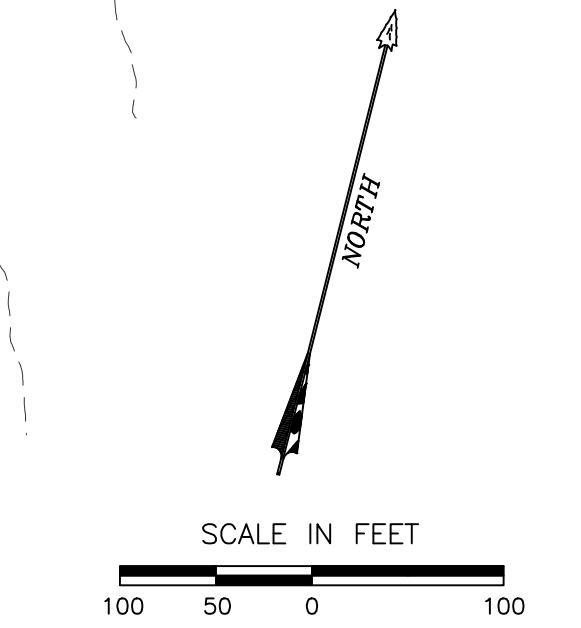


JAMISON CIVIL ENGINEERING LLC
(TX. PE FIRM REG. #F-17756)
13812 RESEARCH BLVD. #B-2
AUSTIN, TEXAS 78750
OFFICE: (737) 484-0880
INFO@JAMISONENG.COM

08 of 13



DEVELOPED JUNCTION 1 SUMMARY		
STORM	EXISTING (cfs)	DEVELOPED (cfs)
2-YEAR	25.7	24.3
10-YEAR	43.6	40.7
25-YEAR	57.8	54.1
100-YEAR	86.3	81.5

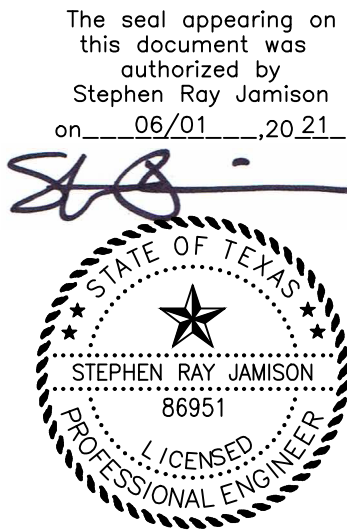


LEGEND	
PROPERTY LINE	---
ADJACENT PROPERTY LINE	---
EASEMENT LINE	---

*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	7.48	325,750	40.4%	Grass (0-2%)	0.21	0.25	0.29	0.36	
Tc	37.0	37.0	37.0	37.0	11.05	481,303	59.6%	Concrete	0.75	0.83	0.88	0.97	
I	2.62	3.92	4.87	6.47									
Q	25.7	43.6	57.8	86.3	18.53	807,053	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	8.66	377,325	46.8%	Grass (0-2%)	0.21	0.25	0.29	0.36	
Tc	37.0	37.0	37.0	37.0	9.87	429,738	53.2%	Concrete	0.75	0.83	0.88	0.97	
I	2.62	3.92	4.87	6.47									
Q	24.3	40.7	54.1	81.5	18.53	807,063	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

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

**HUTTO ISD ADMINISTRATION
BUILDING**
302 COLLEGE ST., HUTTO, TX 78634

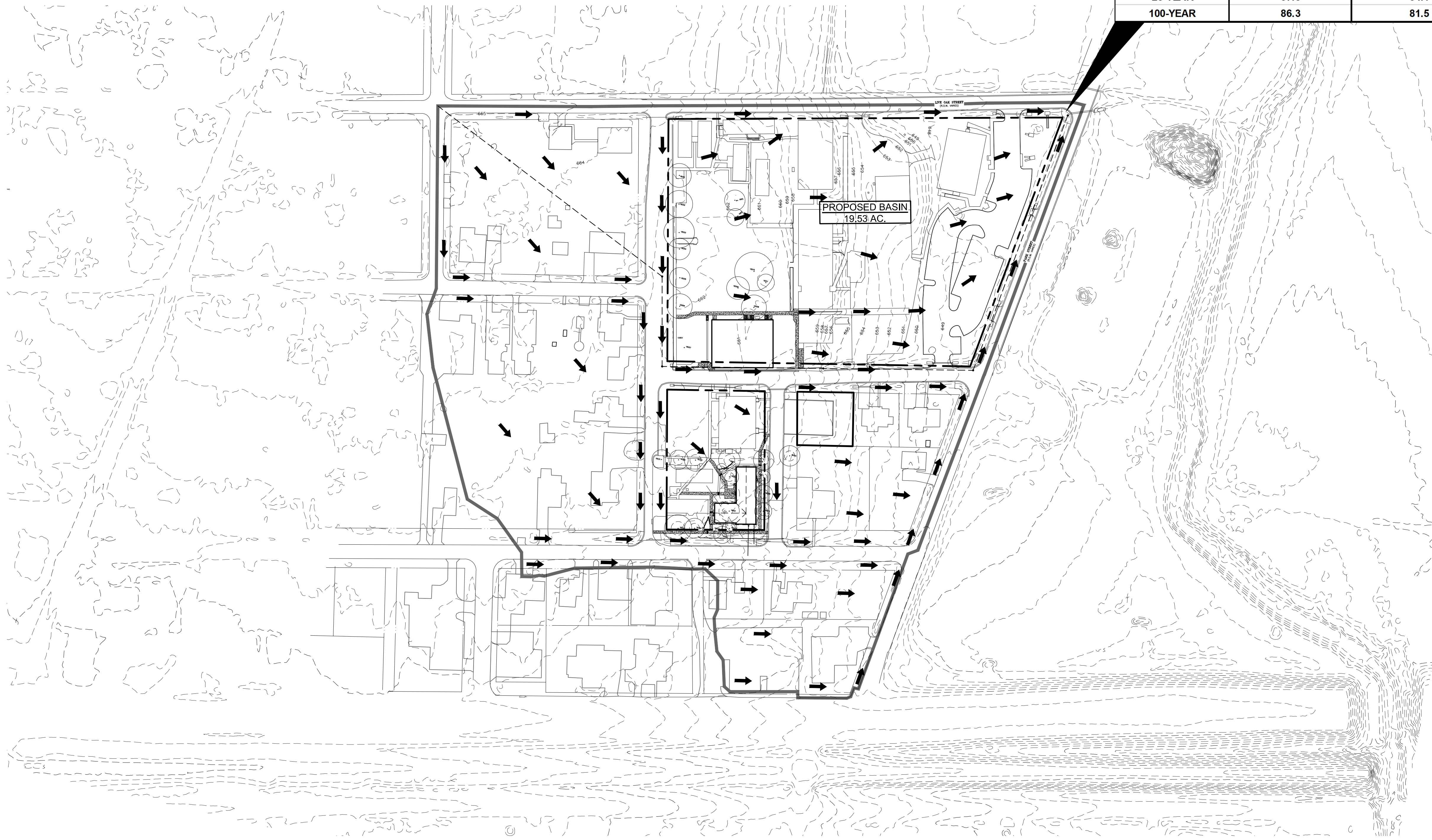
HUTTO INDEPENDENT SCHOOL
DISTRICT
200 COLLEGE STREET
HUTTO, TX 78634

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

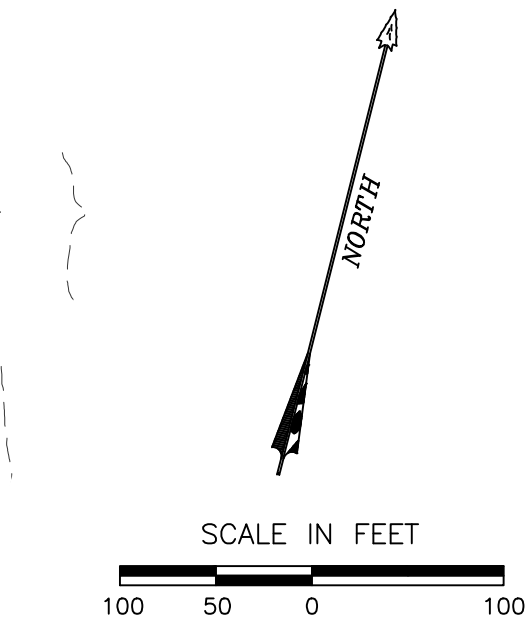
EXISTING
CONDITIONS
DRAINAGE
MAP

100% CHECK SET

09 of 13



DEVELOPED JUNCTION 1 SUMMARY		
STORM	EXISTING (cfs)	DEVELOPED (cfs)
2-YEAR	25.7	24.3
10-YEAR	43.6	40.7
25-YEAR	57.8	54.1
100-YEAR	86.3	81.5

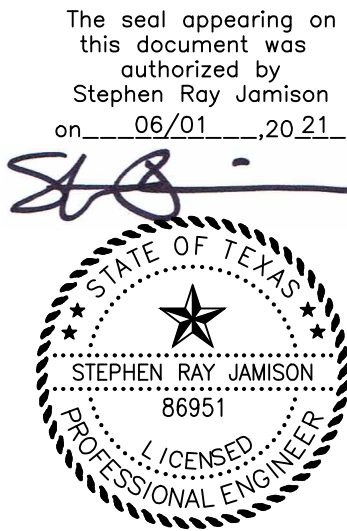


LEGEND	
PROPERTY LINE	---
ADJACENT PROPERTY LINE	---
EASEMENT LINE	---

*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	7.48	325,750	40.4%	Grass (0-2%)	0.21	0.25	0.29	0.36
Tc	37.0	37.0	37.0	37.0	11.05	481,303	59.6%	Concrete	0.75	0.83	0.88	0.97
I	2.62	3.92	4.87	6.47								
Q	25.7	43.6	57.8	86.3	18.53	807,053	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	8.66	377,325	46.8%	Grass (0-2%)	0.21	0.25	0.29	0.36
Tc	37.0	37.0	37.0	37.0	9.87	429,738	53.2%	Concrete	0.75	0.83	0.88	0.97
I	2.62	3.92	4.87	6.47								
Q	24.3	40.7	54.1	81.5	18.53	807,063	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

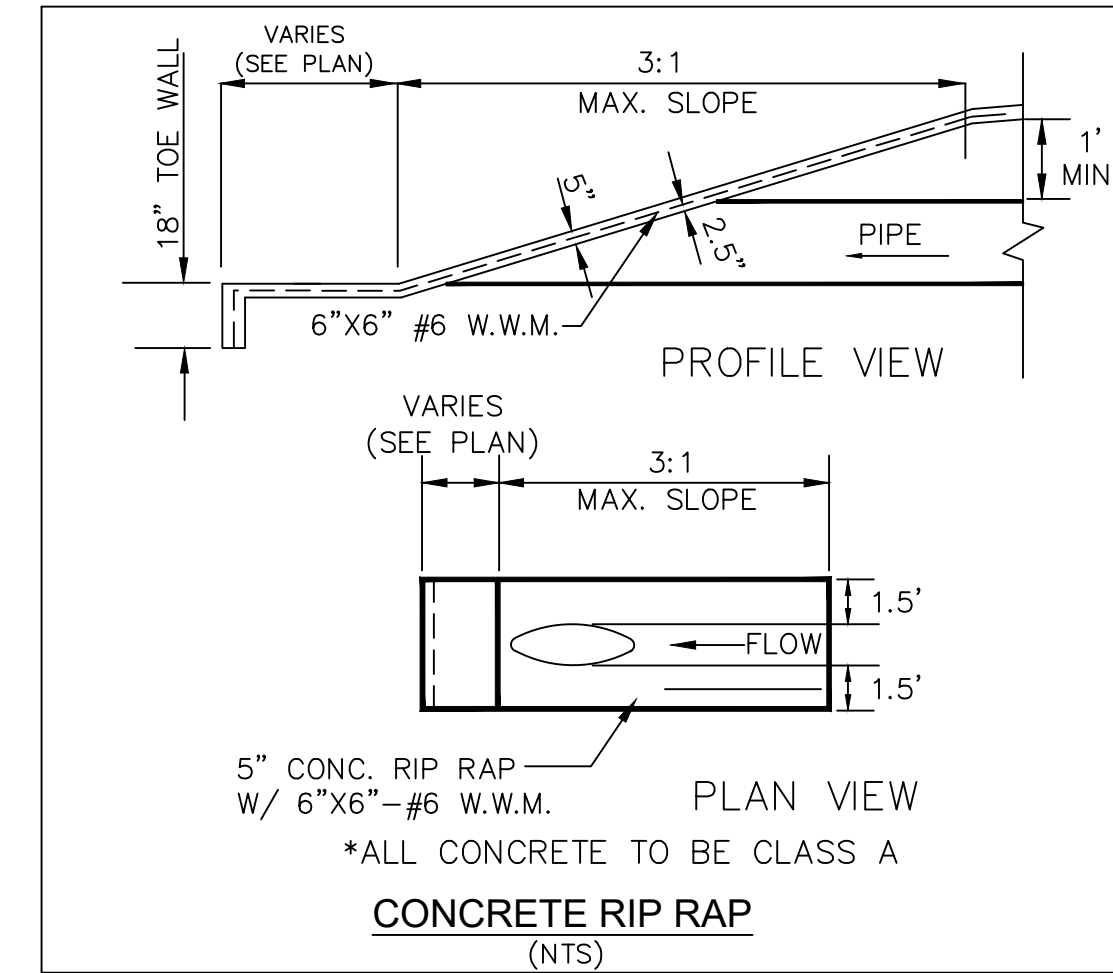
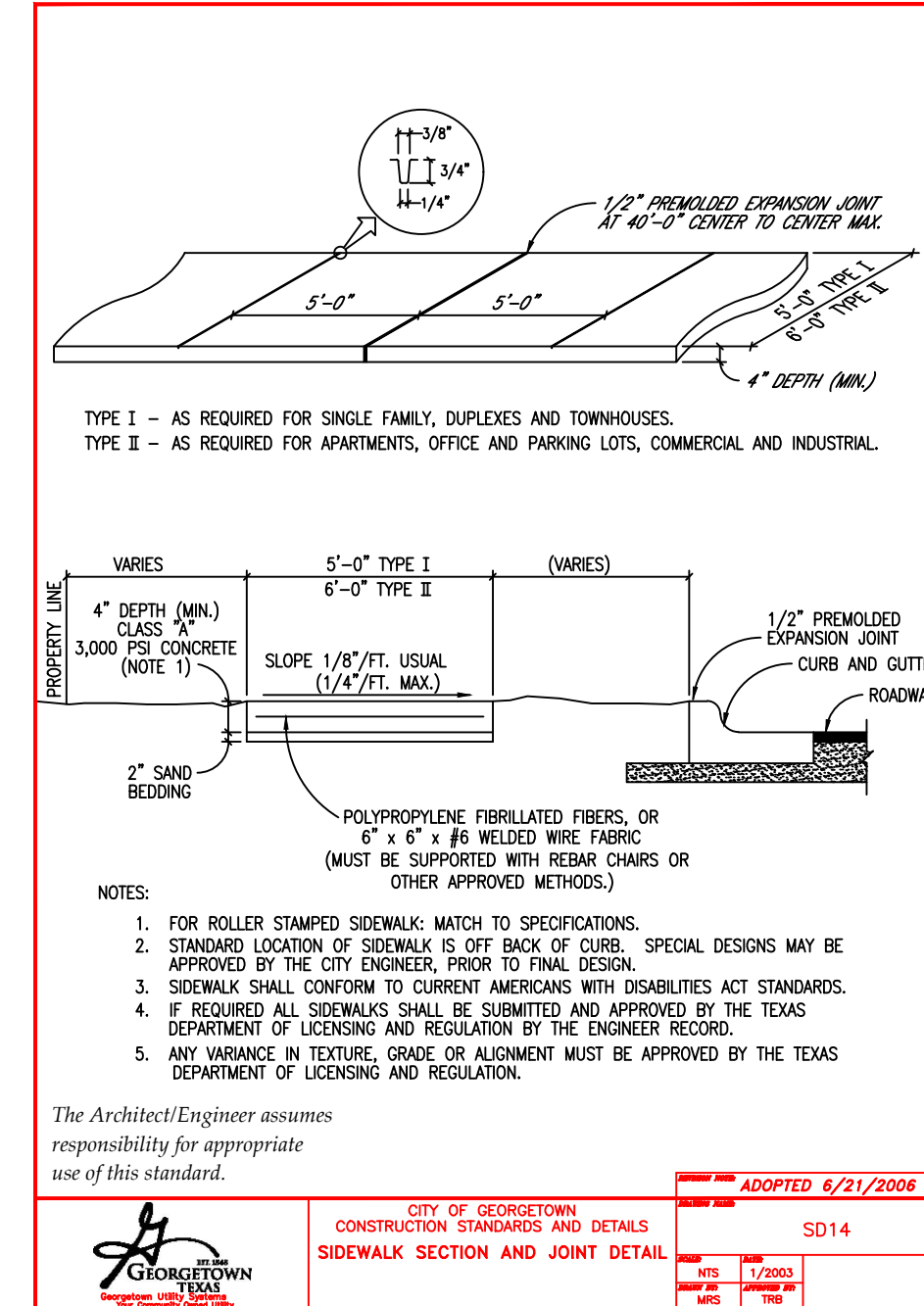
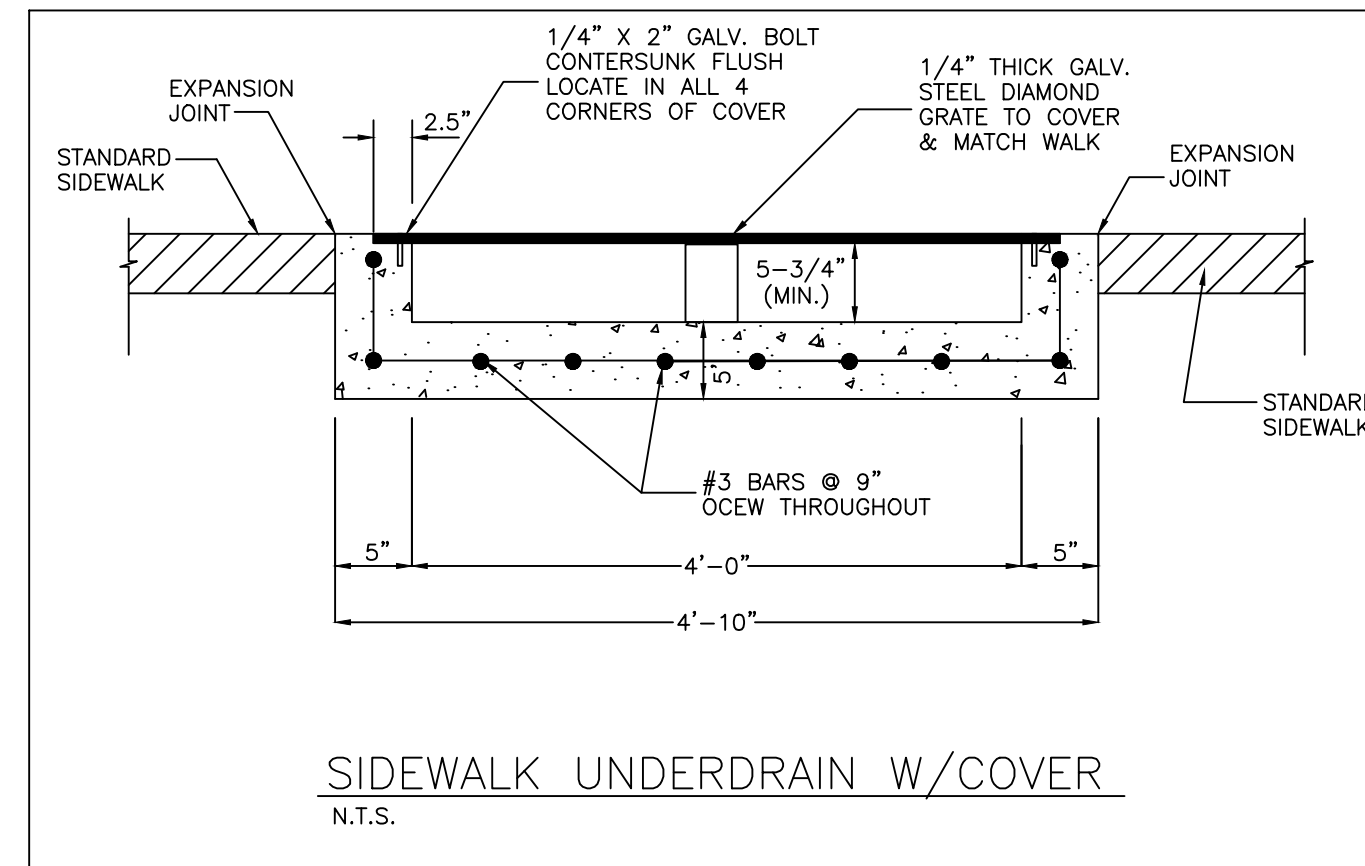
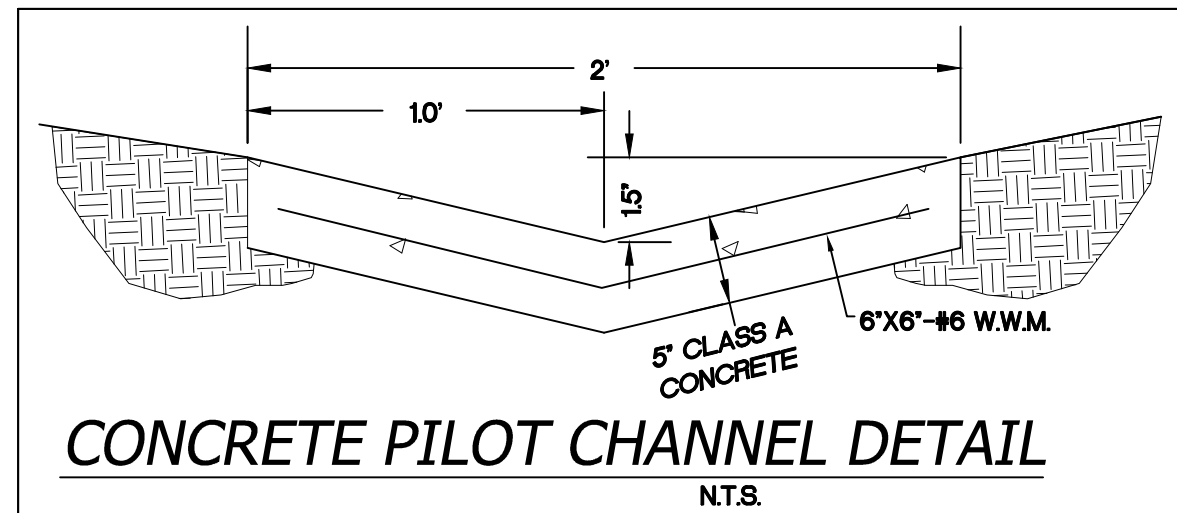
JCE

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

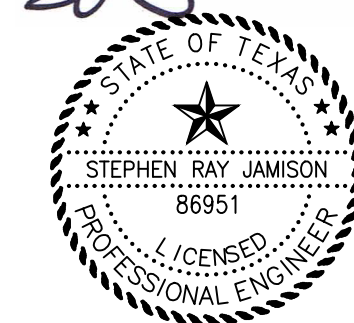
**HUTTO ISD ADMINISTRATION
BUILDING**
302 COLLEGE ST., HUTTO, TX 78634

HUTTO INDEPENDENT SCHOOL
DISTRICT
200 COLLEGE STREET
HUTTO, TX 78634

PROJECT NO. 20-038
DATE XXXXX/2021
AUTHOR: MM CHECKED BY: SRJ
REVISIONS:
1
2
3
4
5
6
The seal appearing on
this document was
authorized by
Stephen Ray Jamison
on 06/01/2021
**PROPOSED
CONDITIONS
DRAINAGE
MAP**
100% CHECK SET
10 of 13



The seal appearing on
this document was
authorized by
Stephen Ray Jamison
on 06/01, 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**

JCE

pfluger

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

pflugerarchitects.com

**HUTTO ISD ADMINISTRATION
BUILDING**

302 COLLEGE ST., HUTTO, TX 78634

HUTTO INDEPENDENT SCHOOL
DISTRICT

200 COLLEGE STREET
HUTTO, TX 78634

PROJECT NO.	20-038						
DATE	XX/XX/2021						
AUTHOR: MM	CHECKED BY: SRJ						
REVISIONS:							
<table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Date	Description				
No.	Date	Description					

1
2
3
4
5
6

GENERAL DETAILS

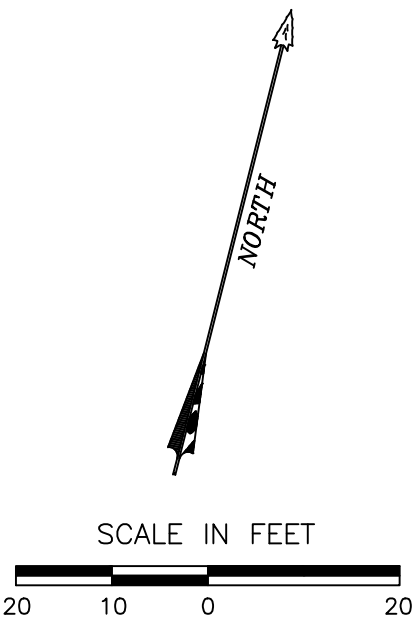
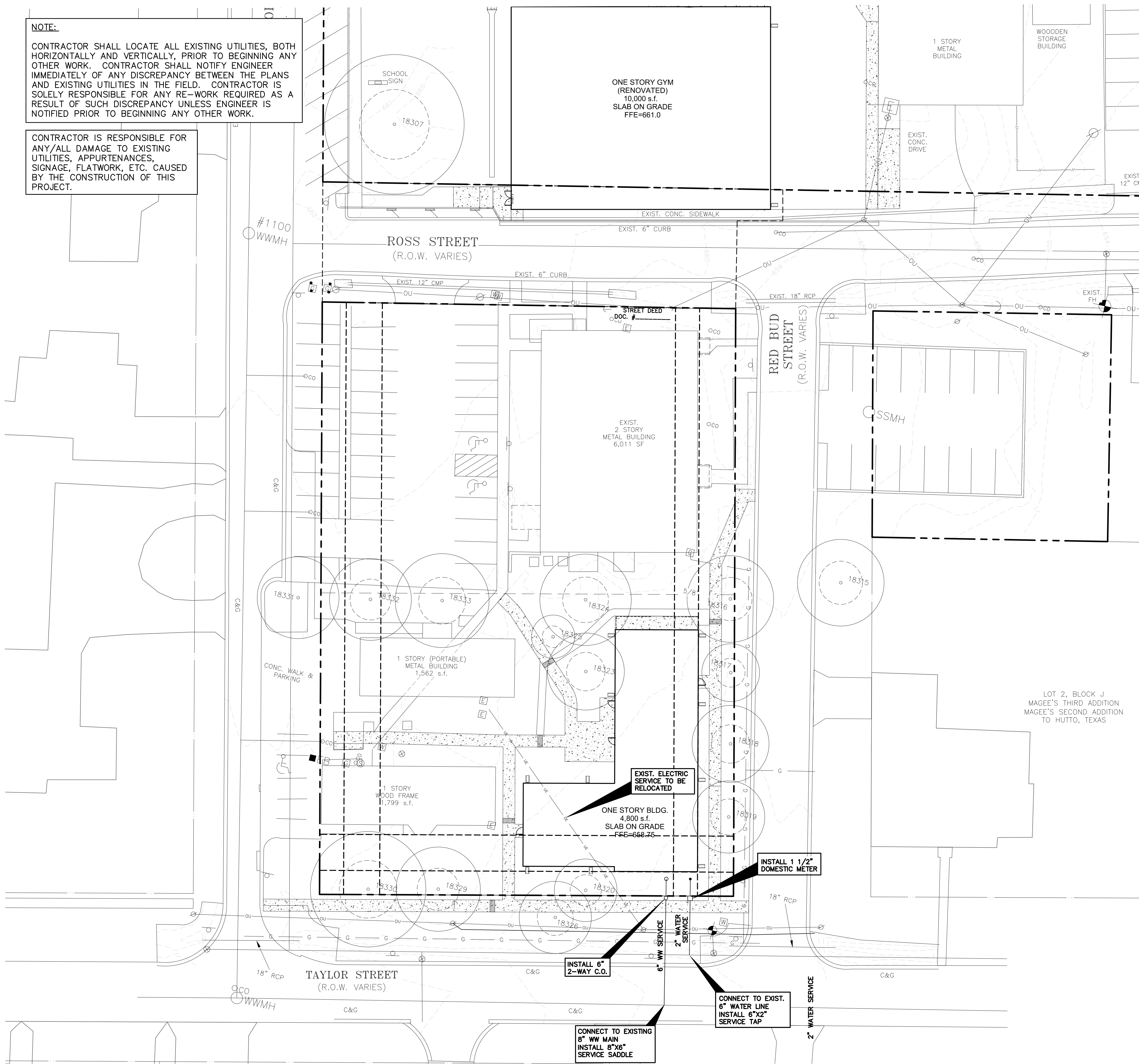
100% CHECK SET

11 of 13

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.

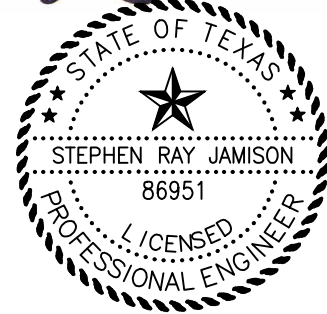
CONTRACTOR IS RESPONSIBLE FOR ANY/ALL DAMAGE TO EXISTING UTILITIES, APPURTENANCES, SIGNAGE, FLATWORK, ETC. CAUSED BY THE CONSTRUCTION OF THIS PROJECT.



LEGEND

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

The seal appearing on this document was authorized by
Stephen Ray Jamison
on 06/09/2021



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

HUTTO ISD ADMINISTRATION
BUILDING

HUTTO INDEPENDENT SCHOOL
DISTRICT

200 COLLEGE STREET
HUTTO, TX 78634

PROJECT NO. 20-038

DATE XXXXX/2021

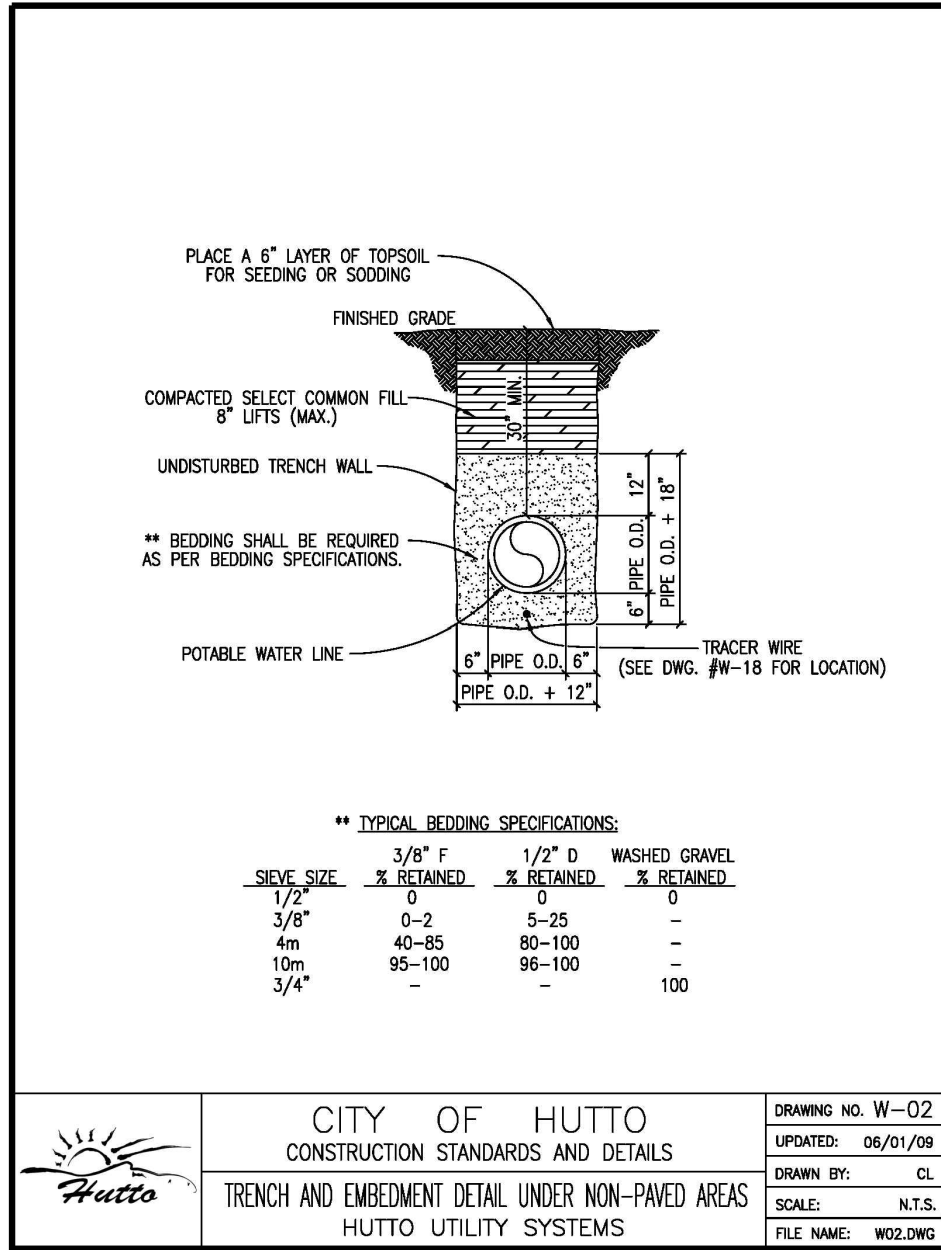
AUTHOR: MM CHECKED BY: SRJ

REVISIONS:

No.	Date	Description
1		
2		
3		
4		
5		
6		

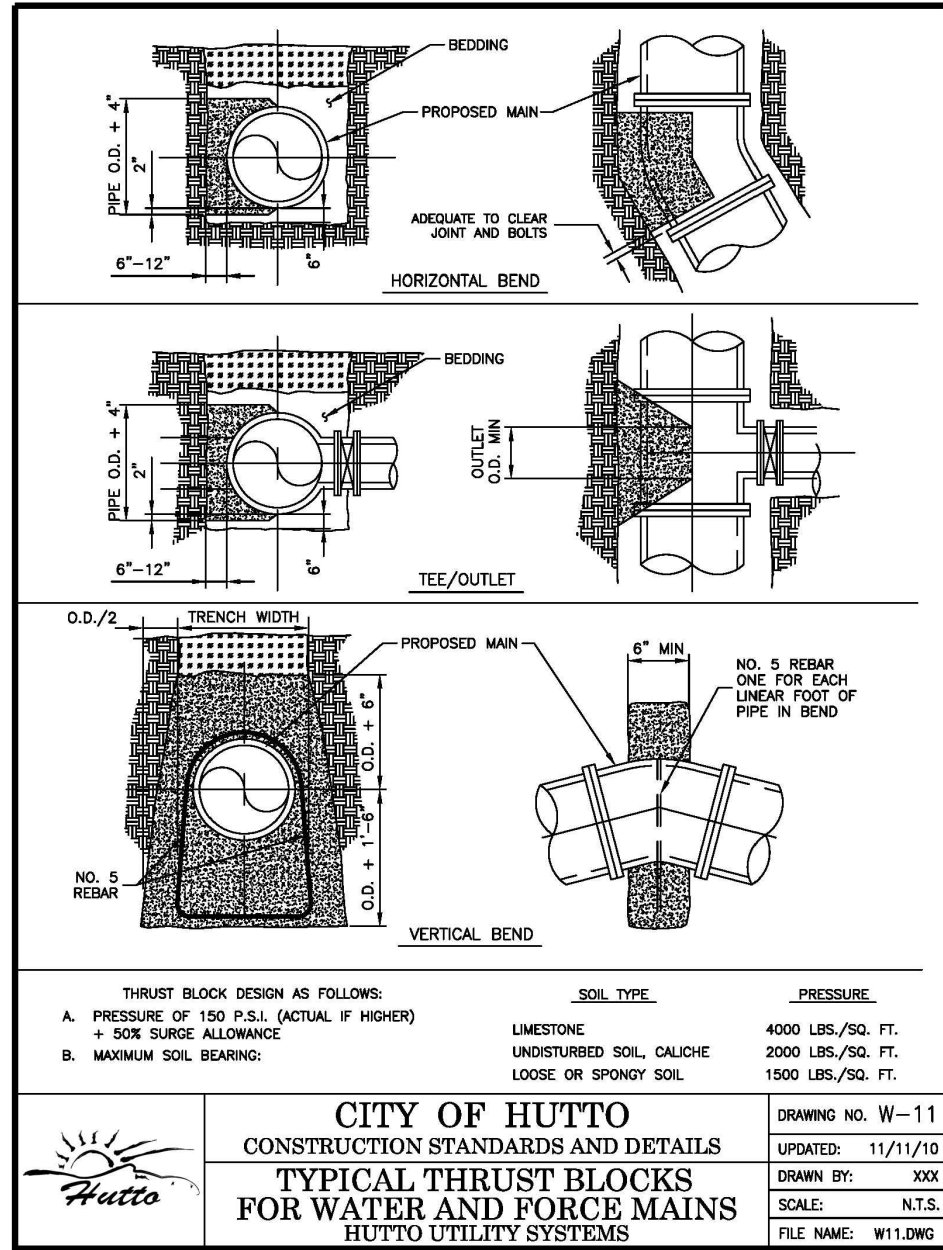
UTILITY PLAN

100% CHECK SET



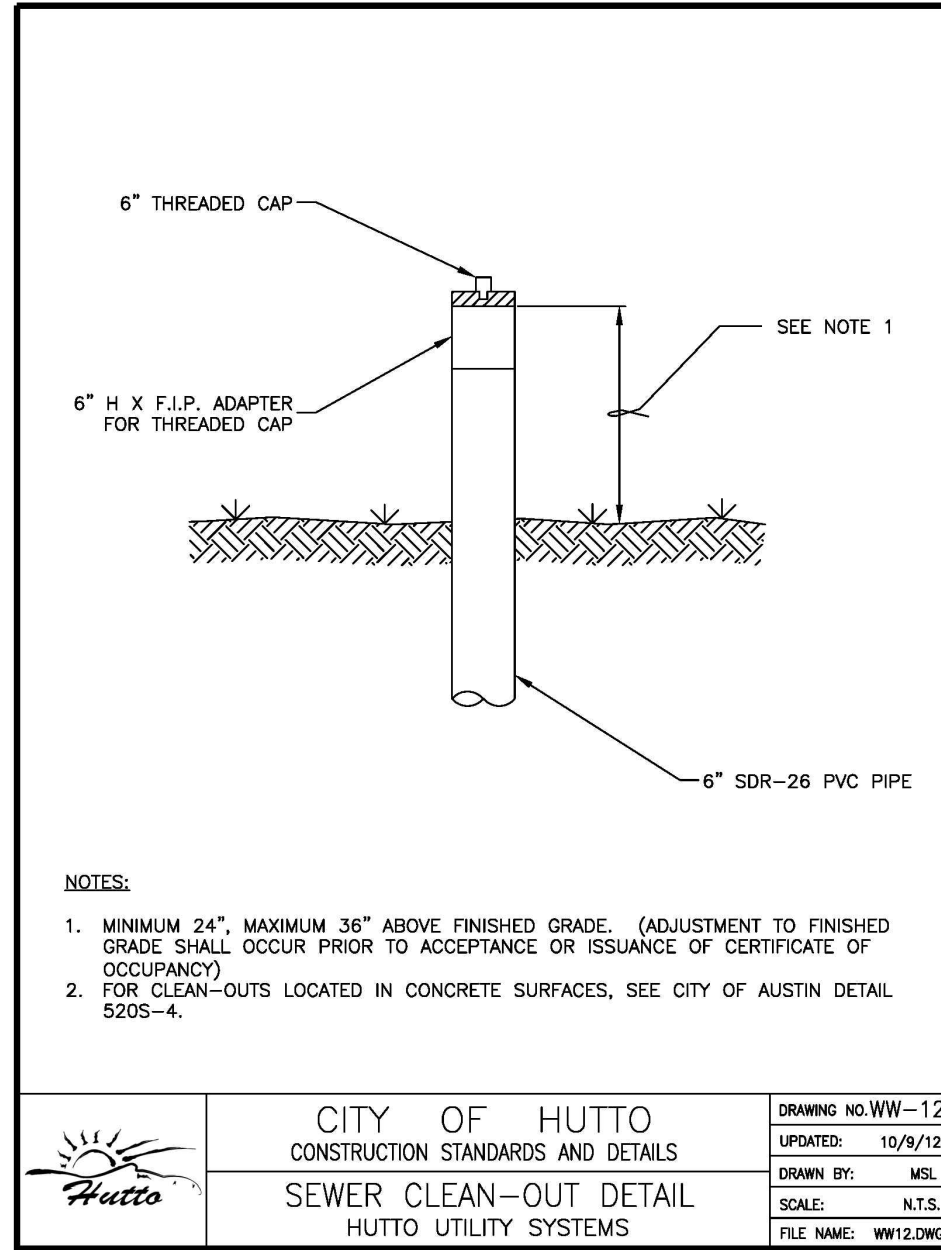
CITY OF HUTTO
CONSTRUCTION STANDARDS AND DETAILS
TRENCH AND EMBEDMENT DETAIL UNDER NON-PAVED AREAS
HUTTO UTILITY SYSTEMS

DRAWING NO. W-02
UPDATED: 06/01/09
DRAWN BY: CL
SCALE: N.T.S.
FILE NAME: W02.DWG



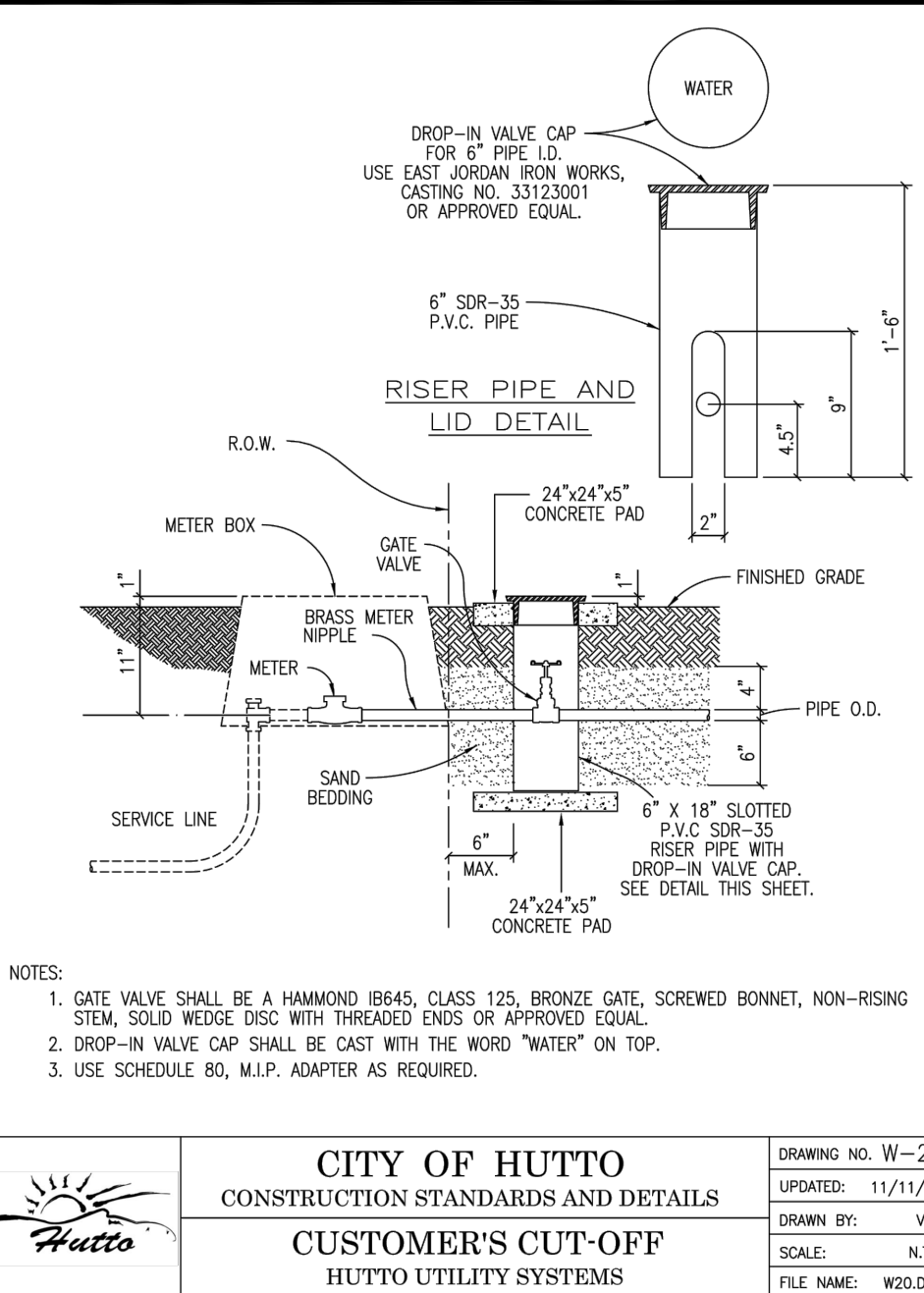
CITY OF HUTTO
CONSTRUCTION STANDARDS AND DETAILS
TYPICAL THRUST BLOCKS
FOR WATER AND FORCE MAINS
HUTTO UTILITY SYSTEMS

DRAWING NO. W-11
UPDATED: 11/17/10
DRAWN BY: JKL
SCALE: N.T.S.
FILE NAME: W11.DWG



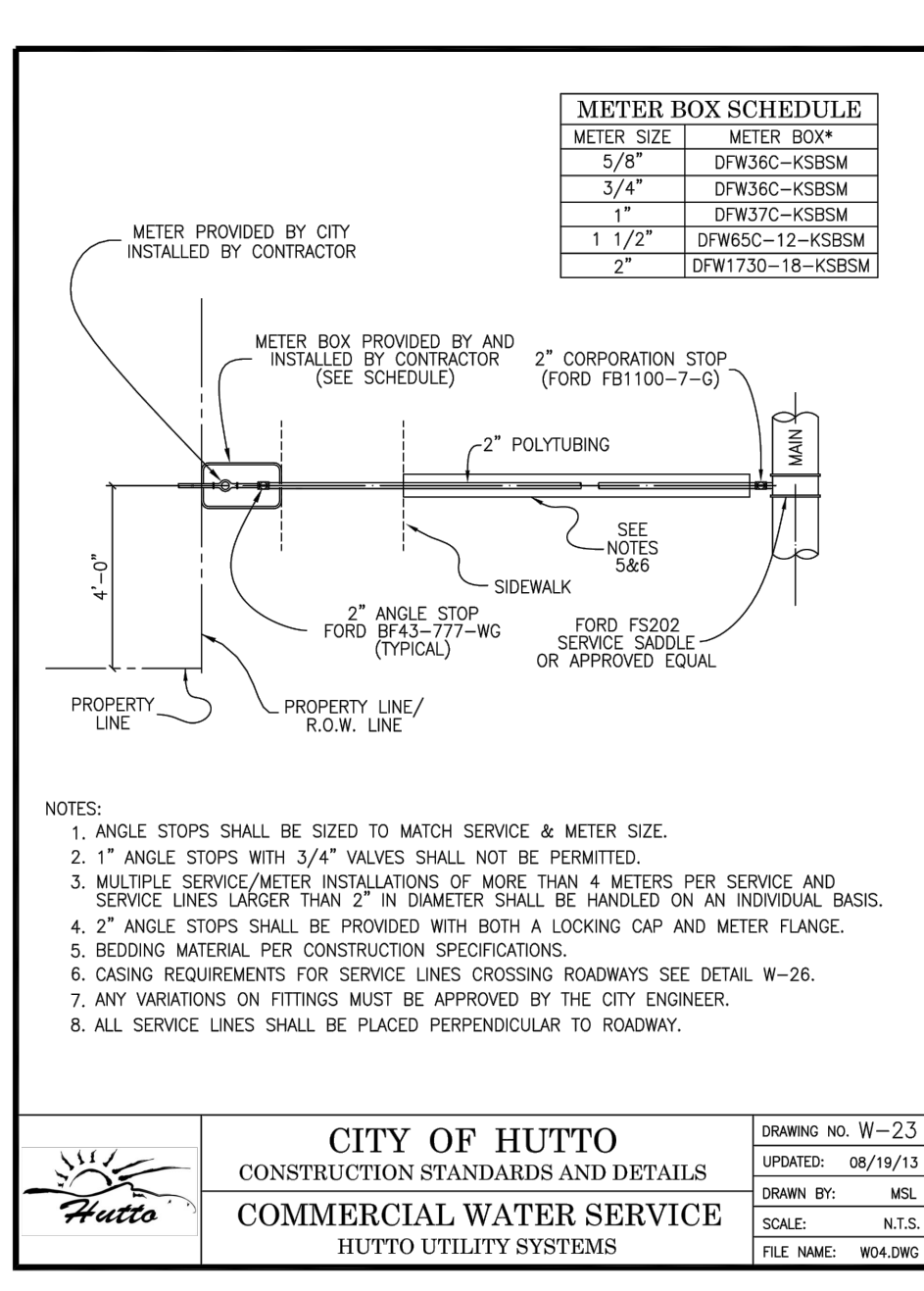
CITY OF HUTTO
CONSTRUCTION STANDARDS AND DETAILS
SEWER CLEAN-OUT DETAIL
HUTTO UTILITY SYSTEMS

DRAWING NO. W-12
UPDATED: 10/01/12
DRAWN BY: MEL
SCALE: N.T.S.
FILE NAME: W12.DWG



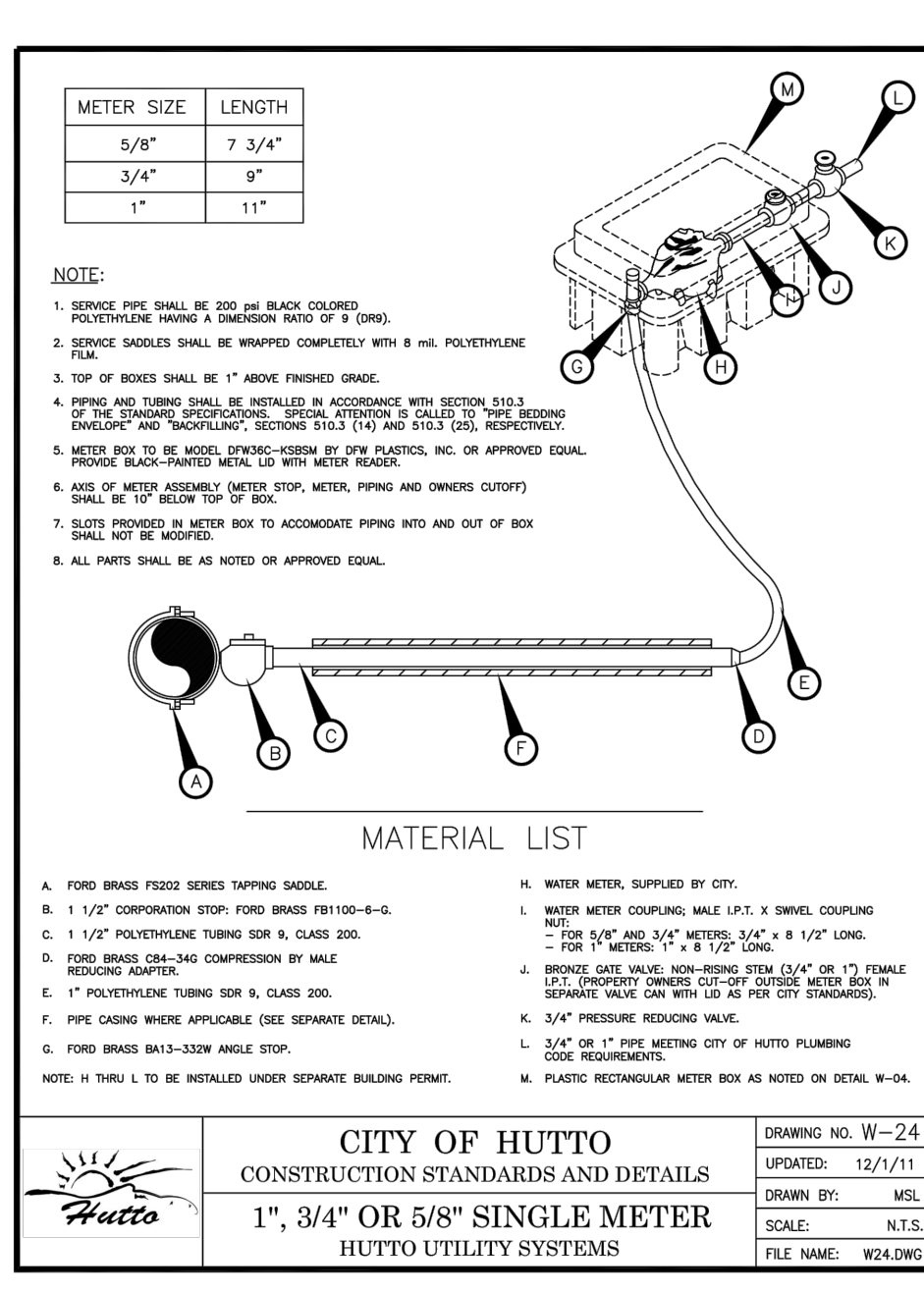
CITY OF HUTTO
CONSTRUCTION STANDARDS AND DETAILS
CUSTOMER'S CUT-OFF
HUTTO UTILITY SYSTEMS

DRAWING NO. W-20
UPDATED: 11/11/11
DRAWN BY: VMB
SCALE: N.T.S.
FILE NAME: W20.DWG



CITY OF HUTTO
CONSTRUCTION STANDARDS AND DETAILS
COMMERCIAL WATER SERVICE
HUTTO UTILITY SYSTEMS

DRAWING NO. W-23
UPDATED: 06/19/13
DRAWN BY: MEL
SCALE: N.T.S.
FILE NAME: W23.DWG



CITY OF HUTTO
CONSTRUCTION STANDARDS AND DETAILS
1", 3/4" OR 5/8" SINGLE METER
HUTTO UTILITY SYSTEMS

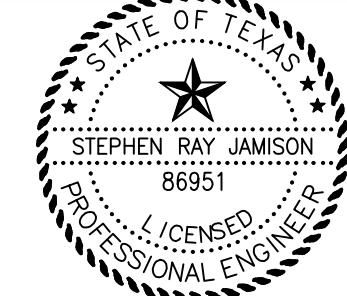
DRAWING NO. W-24
UPDATED: 12/1/11
DRAWN BY: MEL
SCALE: N.T.S.
FILE NAME: W24.DWG

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

The seal appearing on this document was authorized by
Stephen Ray Jamison
on 06/01/2021



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

HUTTO ISD ADMINISTRATION
BUILDING
302 COLLEGE ST., HUTTO, TX 78634

HUTTO INDEPENDENT SCHOOL
DISTRICT
200 COLLEGE STREET
HUTTO, TX 78634

PROJECT NO. 20-038
DATE XXXXX2021
AUTHOR: MM CHECKED BY: SRJ
REVISIONS:
1. Date Description
2.
3.
4.
5.
6.

UTILITY
DETAILS

100% CHECK SET

13 of 13

Hutto New Administration Building Site Photos



View west at corner of Red Bud and Taylor Streets.



North View looking northwest from the corner of Red Bud and Taylor Streets



View west from Red Bud Street



View east from the corner of the SW corner of the existing admin building.



View South from the corner of the SW corner of the existing admin building.

trees will be protected.

Hutto ISD New Administration Building: Material Samples



AF-505

blue echo
eco azulado

AF-20

mascarpone
mascarpone

6" reveal smooth hardieboard clapboard lap siding is the majority of the façade. At the main entrance and gable ends, smooth hardie panel with battens create a board and batten pattern. Between closely spaced windows, smooth panel is used. Around all edges and corners, 5/4 x 4" hardie trim is used to in the accent color Marscapone. The Fascia, soffits and gutters and downspouts will also be in Marscapone. The roof is a galvalume standing seam metal panel.



Windows will be a white vinyl double hung with mullion dividers as shown on drawings. Doors will be painted a light gray to match the anodized aluminum door at the main entrance. A 48" black wrought iron fence will be used at the mechanical units to screen them from view.



The main entrance will have some wood structural elements that will be stained and sealed. The entrance system will be clear anodized aluminum storefront.



Product Configuration ⇒ [Lumiere](#) ⇒ [Lanterra 9002/9003/9004](#)

Catalog Number Provided: **9002**

Clear Selections

Close

Comments:

25" O.D.) and 9004 (4.25" O.D.) are line voltage cylinder fixtures comes in various mountings, surface mount with integral driver in with round and square wall plates and square wall integral driver, standard 4 inch j-box. The luminaire also comes with various mounting option.



Lanterra Cylinder

Include Spec Sheet

Back to Build Product Page

Number	Object Type	Quantity	Quote Price	Extended Price
NV-WRS	Fixture	1		

- None Selected
- 9003=LED 3.5" Cylinder Accent Fixture
- W2=Up and Down Fixture
- Not an Option
- FL=Flush Lens with no weep
- LED2790=2700K, 90 CRI
- M=Medium
- M=Medium
- BZ=Bronze
- Not an Option
- L1=Light Level 1
- UNV=Voltage 120-277V
- WRS=Remote Driver Housing - Square Wall Plate
- None Selected

w1 - downlight only

AGENDA ITEM REPORT



To: Historic Preservation Commission
Subject: Consideration and possible action on Organizing a Hutto History Writing Committee.
Meeting: Tuesday, July 27, 2021
Department: Development Services
Staff Contact:

BACKGROUND INFORMATION:

SUMMARY OF REQUEST:

STAFF REVIEW:

FINANCIAL IMPACT:

POLICY IMPLICATIONS:

ATTACHMENTS:

None