LEGAL DESCRIPTION

LOTS FIVE (5) AND SIX (6) JOHNSTONE SUPPLY SUBDIVISION, AN ADDITION TO THE CITY OF PHARR, HIDALGO COUNTY, TEXAS, AS PER MAP OR PLAT THEREOF RECORDED UNDER DOCUMENT NUMBER 2407382, MAP RECORDS, HIDALGO

PROJECT DIRECTORY

OWNER TRDI **DUNCAN ARCHITECTS, LLC** 425 SOLEDAD, SUITE 800 804 PECAN BLVD., STE 113 SAN ANTONIO, TX 78205 McALLEN, TX 78501 210-572-0402 956-443-3755 CIVIL ENGINEER RGV STRATA MEP ENGINEER RO ENGINEERING, PLLC 4900 TEXAN ROAD 2705 E. DAVIS RD. MISSION, TX 78574 EDINBURG, TX 78540 956-292-3336 956-802-7328

LANDSCAPE ARCHITECT STRUCTURAL ENGINEER HEFFNER DESIGN TEAM ATLAS ENGINEERING CONSULTANTS, LLC 4100 N. 22ND STREET 500 SOUTH 11TH STREET McALLEN, TX 78504 McALLEN, TX 78501

956-379-3857

P.E.M.B. SUPPLIER & E.O.R TEXAS ACCESSIBILITY SPECIALIST

HOUR

HEIGHT

H.W. HOT WATER

956-540-7850

ABBREVIATIONS A/C AIR CONDITIONING INSUL. INSULATION A.F.F. ABOVE FINISH FLOOR INT. INTERIOR ALT. ALTERNATIVE JAN. JANITOR APPROX .APPROXIMATE JCT. JUNCTION ARCH. ARCHITECTURAL JST. JOIST JOINT ASPH. ASPHALT AUTO. AUTOMATIC LAV. LAVATORY AVG. AVERAGE L.S. LANDSCAPE BLDG. BUILDING LT. LIGHT BLK. BLOCK MAS. MASONRY BLKG. BLOCKING MAX. MAXIMUM MECH. MECHANICAL B.O. BOTTOM OF B.O.S. BOTTOM OF STRUCTURE MET. METAL MFR. MANUFACTURER C.I.P. CAST-IN-PLACE MISC. MISCELLANEOUS CONTROL JOINT NORTH CENTER LINE CLG. CEILING N.I.C. NOT IN CONTRACT C.M.U. CONCRETE MASONRY UNIT NO. NUMBER N.T.S. NOT TO SCALE COL. COLUMN COMP. COMPOSITE PEMB PRE-ENGINEER METAL BLDG. CONC. CONCRETE PERF. PERFORATED CONT. CONTINUOUS PERP. PERPENDICULAR CTR. CENTER PL. PLATE C.W. COLD WATER PREFAB. PREFABRICATED CWK. CASEWORK P.T. PRESSURE TREATED DEPT. DEPARTMEN PT. PAINT DIV. DIVISION QTY. QUANTITY REF. REFERENCE DWG. DRAWINGS(S EXISTING REQ. REQUIRED R.O. ROUGH OPENING EACH EXPANSION JOINT RT. RATED ELEVATION S. SOUTH ELEC. ELECTRICAL S.C.D. SEE CIVIL DRAWINGS ENT. ENTRANCE S.E.D. SEE ELECTRICAL DRAWINGS EOR. ENGINEER OF RECORD SERV. SERVICE E.O.S. EDGE OF SLAB S.F.P.D. SEE FIRE PROT. DWGS. EQ. EQUAL S.L.A.D. SEE LANDSCAPE ARCH. DWGS EXT. EXTERIOR S.M.D. SEE MECHANICAL DRAWINGS F.A. FIRE ALARM S.P.D. SEE PLUMBING DRAWINGS F.D. FLOOR DRAIN S.S.D. SEE STRUCTURAL DRAWINGS FDN. FOUNDATION S.S. STAINLESS STEEL F.E. FIRE EXTINGUISHER STD. STANDARD F.E.C. FIRE EXTINGUISHER CABINET STL. STEEL SUSP. SUSPENDED FIN. FINISH FIXT. FIXTURE T&B. TOP AND BOTTOM FLOOR THK. THICK T.O. TOP OF F.O. FACE OF F.P. FIRE PROTECTION T.O.S. TOP OF STRUCTURE GEN. GENERAL TYP. TYPICAL GLASS GL. U.N.O. UNLESS NOTED OTHERWISE GLB GLUE LAM BEAM UTIL. UTILITY GR. GRADE VAR. VARIABLE G.W.B. GYPSUM WALL BOARD V.B. VAPOR BARRIER GYP. GYPSUM VERT. VERTICAL HBOT. HYPERBARIC OXYGEN THERAPY V.I.F. VERIFY IN FIELD HOSE BIBB W. WEST W/ WITH HANDICAPPED **HEAVY DUTY** W.C. WATER CLOSET HOLLOW METAL W/O WITHOUT HOLD OPEN WAINS WAINSCOTTING H.P. HIGH POINT WD. WOOD WP. WATERPROOF HIGH PRESSURE LAMINATE

WPT. WORK POINT

WSCT. WAINSCOT

WT. WEIGHT



TRDI OFFICE AND WAREHOUSE

941 W. SHARM DRIVE, PHARR, TX 78577

FEBRUARY 16TH, 2024

CONSTRUCTION DOCUMENTS FOR BIDDING

GENERAL NOTES:

ALL WORK ON THE PROJECT SHALL BE PERFORMED AS SHOWN ON THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATIONS. AND FULLY COMPLY WITH ALL SECTIONS AND REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (LATEST LOCALLY APPROVED EDITION WITH ALL APPLICABLE FEDERAL, STATE, COUNTY AND LOCAL ORDINANCES AND REGULATIONS. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH GENERALLY ACCEPTABLE CONSTRUCTION PRACTICES AND IN A WORKMAN AND PROFESSIONAL MANNER.

THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT. DESIGN, AND EXTENT OF THE WORK AND ARE PARTIALLY DIAGRAMMATIC THEY ARE NOT INTENDED TO BE SCALED FOR ROUGH-IN MEASUREMENTS, OR TO SERVE AS SHOP DRAWINGS OR PORTIONS THEREOF. DO NOT SCALE DRAWINGS - USE WRITTEN DIMENSIONS ONLY

ALL NOTES, SPECIFICATIONS, PLANS, DETAILS AND SECTIONS SHOWN ON THE CONSTRUCTION DOCUMENTS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL OR SECTION IS SHOWN AND WHERE SPECIFICALLY NOTED OTHERWISE

PRIOR TO START OF CONSTRUCTION, THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL VERIFY ALL GRADES, LINES, LEVELS, DIMENSIONS AND COORDINATE EXISTING CONDITIONS AT THE JOB SITE WITH THE PLANS AND SPECIFICATIONS. THEY SHALL REPORT ANY INCONSISTENCIES OR ERRORS IN THE CONSTRUCTION DOCUMENTS TO THE ARCHITECT AND ENGINEER OF RECORD BEFORE COMMENCING WORK. THE CONTRACTOR AND HIS SUB-CONTRACTORS SHALL LAY OUT THEIR WORK FROM ESTABLISHED REFERENCE POINTS AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS, AND MEASUREMENTS IN CONNECTION WITH THEIR WORK, THE CIVIL ENGINEER OF RECORD SHALL ESTABLISH THE +0'-0" FINISHED FLOOR BASE ELEVATION - REFERENCE CIVIL ENGINEERING PLANS FOR THE HEIGHT

IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, GENERAL NOTES, SPECIFICATIONS, OR OTHER DOCUMENTS, THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND/OR ENGINEER OF RECORD IN WRITING (E-MAIL ACCEPTABLE) OF SUCH OMISSION OR ERROR PRIOR TO PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION. IN THE EVENT OF THE GENERAL CONTRACTOR'S FAILING TO GIVE SUCH AN ADVANCED NOTICE, THE GENERAL CONTRACTOR SHALL BE HELD DIRECTLY RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS OR OMISSIONS AND THE COSTS INVOLVED FOR REMEDIATING THE SAME.

THE CONTRACTOR SHALL USE THE ARCHITECTURAL DRAWINGS STRUCTURAL DRAWINGS, MEP DRAWINGS, SHOP DRAWINGS, AND MANUFACTURER'S PRODUCT DATA TO LOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, BOLT SETTINGS, SLEEVES, DIMENSIONS, ETC. IMMEDIATELY NOTIFY THE ARCHITECT AND ENGINEER OF RECORD IN WRITING (E-MAIL ACCEPTABLE) OF ANY POTENTIAL CONFLICTS BEFORE PROCEEDING WITH THAT PHASE OF THE WORK.

THIS PROJECT INCLUDES STRUCTURAL ELEMENTS TO BE DESIGNED BY THE CONTRACTOR'S OR A SUPPLIER'S DELEGATED STRUCTURAL ENGINEER. NOTE THAT ANY INFORMATION (SUCH AS SIZE, DIMENSIONS, REINFORCEMENT, INTERNAL AND EXTERNAL CONNECTIONS, ETC.) PROVIDED IN THESE DRAWINGS ARE ONLY FOR GUIDANCE AND CLOSER COST ESTIMATING (UNLESS INDICATED) TO BE USED AS MINIMUM REQUIREMENTS. THE DELEGATED ENGINEER(S) SHALL DETERMINE THE FINAL STRUCTURAL REQUIREMENTS, BASED ON THEIR CALCULATIONS. INFORM THE ARCHITECT AND/OR ENGINEER OF RECORD OF ANY CHANGES, SO THEY CAN BE INCORPORATED IN THE ARCHITECT'S AND/OR ENGINEER'S OF RECORD CONSTRUCTION DOCUMENTS, PLANS AND DETAILS (AND BE RESUBMITTED

FOR BUILDING DEPARTMENT REVIEW IF REQUIRED). THE CONTRACTOR AND THEIR SUB-CONTRACTORS SHALL CONSTRUCT THE ELEMENTS BASED ONLY ON THE FULL DESIGN PLANS AND DETAILS (SHOP DRAWINGS) ISSUED BY THE OF RECORD AND APPROVED BY THE REGULATING BUILDING DEPARTMENT ANY PRICING OF THE DELEGATED ENGINEERED ELEMENTS OFF ANY OTHER PLANS SHALL BE CONSIDERED PRELIMINARY OR FOR GENERAL BUDGET PRICING ONLY.

EXISTING STRUCTURES AND/OR EXISTING CONDITIONS SHOWN IN THESE DOCUMENTS HAVE BEEN OBTAINED BY THE ARCHITECT AND/OR ENGINEER OF RECORD TO THE EXTENT POSSIBLE DURING THE DESIGN OF THE PROJECT, AND IS BASED ON THE EXISTING LEGIBLE PLANS (IF AVAILABLE) AND/OR LIMITED FIELD INVESTIGATION. THIS INFORMATION MAY BE PARTIAL INCOMPLETE, OR INACCURATE, AS SOON AS A GENERAL CONTRACTOR HAS BEEN SELECTED FOR THIS PROJECT, THE EXISTING ELEMENTS THAT ARE AFFECTED BY, OR AFFECT THE NEW CONSTRUCTION, SHALL BE EXPOSED AND FULLY INVESTIGATED AS REQUIRED TO DETERMINE THEIR STRUCTURAL INTEGRITY, CAPACITY AND GENERAL CONDITION. NO NEW WORK SHALL COMMENCE UNTIL EXISTING CONDITIONS HAVE BEEN CONFIRMED, REPORTED TO, OR OBSERVED BY THE ARCHITECT AND/OR ENGINEER OF RECORD FOR A POSSIBLE MODIFICATION OR REDESIGN.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A FULL-TIME CONSTRUCTION SUPERVISOR ON THE JOB AT ALL TIMES. THE CONSTRUCTION SUPERVISOR SHALL BE AWARE OF AND FOLLOW THE INTENT OF THE DESIGN AT ALL TIMES. WHEN IN QUESTION, THE ARCHITECTS OR EOR SHALL BE THE INTERPRETER OF THE INTENT OF THE DESIGN.

ALL EXISTING SURFACE, OVERHEAD, AND SUB-SURFACE CONDITIONS WHICH ARE NOT FORESEEN OR PREDICTED ON THESE DRAWINGS, WHICH MIGHT CAUSE LIABILITY, COSTS, OBLIGATIONS, AND/OR DELAYS, ARE THE OWNER'S RESPONSIBILITY. ALL OWNER'S INSTRUCTIONS TO THE CONTRACTOR SHALL BE MADE THROUGH THE ARCHITECT AND/OR ENGINEER OF RECORD. THESE INSTRUCTIONS SHALL BE MADE IN WRITING (E-MAIL ACCEPTABLE).

NO CHANGES OR SUBSTITUTIONS WILL BE ALLOWED FOR ANY CONSTRUCTION MATERIALS AND FINISHES SPECIFICALLY SPECIFIED ON THE PLANS WITHOUT FIRST CONTACTING THE ARCHITECT AND/OR ENGINEER OF RECORD AND OBTAINING PERMISSION IN WRITING (E-MAIL ACCEPTABLE). ALL SUBSTITUTED MATERIALS MUST BE EQUAL IN QUALITY, QUANTITY, AND APPEARANCE OF THE ORIGINAL MATERIAL SPECIFIED. FINAL SELECTION OF ALL MATERIALS/ FINISHES ARE BY OWNER.

SHOP DRAWING REVIEW:

ALL SHOP DRAWINGS SHALL BE SUBMITTED FOR ARCHITECT AND/OR ENGINEER OF RECORD'S REVIEW AFTER THEY HAVE BEEN THOROUGHLY REVIEWED BY THE GENERAL CONTRACTOR FOR CONSTRUCTION METHODS, DIMENSIONS, FIELD CONDITIONS, "AS-CONSTRUCTED" DIMENSIONS, AND ANY OTHER TRADE REQUIREMENTS, AND STAMPED WITH THE GENERAL CONTRACTOR'S APPROVAL STAMP

THE SHOP DRAWING REVIEW BY THE ARCHITECT AND/OR ENGINEER OF RECORD IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND INFORMATION GIVEN IN THE CONSTRUCTION DOCUMENTS CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THE ARCHITECT/ ENGINEER REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE PLANS & SPECIFICATIONS.

THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR QUANTITIES, ENGINEERING DESIGN PREPARED BY DELEGATED ENGINEERS, OR ERRORS OR OMISSIONS AS A RESULT OF REVIEWING ANY SHOP DRAWINGS. ANY

ERRORS OR OMISSIONS MUST BE REMEDIATED BY CONTRACTOR IRRESPECTIVE OF RECEIPT, CHECKING OR REVIEW OF DRAWINGS BY THE ARCHITECT AND EVEN THOUGH WORK IS DONE IN ACCORDANCE WITH SHOP

BEFORE OBSERVATIONS CAN BE MADE ON A PORTION OF THE BUILDING, ALL RELATED SHOP DRAWINGS, DELEGATED ENGINEERING, PRODUCT APPROVAL, MFR DATA AND OTHER RELATED INFO, MUST BE REVIEWED AND ACCEPTED BY THE ARCHITECT, AND/OR THE EOR, & SUBMITTED AND APPROVED BY THE LOCAL BUILDING DEPARTMENT

ANY COMMENTS, QUESTIONS AND MODIFICATIONS MADE BY THE SHOP DRAWING DETAILER TO THE ARCHITECT OR ENGINEER'S DESIGN AND/OR DETAIL, SHALL BE CLEARLY MARKED (CLOUDED OR FLAGGED)

CONTRACTOR SHALL SUBMIT TO ARCHITECT/ ENGINEER STRUCTURAL SHOP DRAWINGS FOR ENGINEER'S REVIEW, BEFORE STARTING FABRICATION. DIGITAL SUBMISSION FORMAT ACCEPTABLE. NO FABRICATION OR CONSTRUCTION SHALL BEGIN UNTIL OUTSTANDING ITEMS ON THE SHOP DRAWINGS HAVE BEEN CLARIFIED & AGREED UPON. AGREEMENT SHALL BE IN

ALL SHOP DRAWINGS SHALL CONTAIN THE MINIMUM INFORMATION, OUTLINED IN THE LOCAL BUILDING CODE

CONTRACTOR AND HIS DRAFTSMAN SHALL MAKE SURE THAT ALL THE FLAGGED ITEMS ON THE SHOP DRAWINGS HAVE BEEN RESPONDED TO BY THE ARCHITECT AND/OR ENGINEER OF RECORD. ITEMS THAT INADVERTENTLY HAVE NOT BEEN RESPONDED TO BY THE ARCHITECT AND/OR ENGINEER SHALL NOT BE CONSIDERED AS A YES OR NO ANSWER. THE CONTRACTOR AND THEIR DETAILER SHALL COMMUNICATE DIRECTLY WITH THE ARCHITECT AND/OR ENGINEER TO DISCUSS ALL THE UNANSWERED QUESTIONS.

SHOP DRAWINGS SHALL BE ORIGINAL AND PRODUCED BY THE CONTRACTOR THE CONSTRUCTION DRAWINGS SHALL BE USED AS REFERENCE ONLY, AND DIGITAL OR PRINTED CONSTRUCTION DRAWINGS PRODUCED BY ARCHITECT AND/OR ENGINEER SHALL NOT SERVE AS A BACKGROUND FOR THE CONTRACTOR'S SHOP DRAWINGS.

CONSTRUCTION MEANS AND METHODS

THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE, OR PROCEDURES, SAFETY PRECAUTIONS, SHORES, RESHORES, LATERAL BRACING AND PROGRAMS IN CONNECTION WITH THE PROJECT, ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR

THE CONTRACTOR IS RESPONSIBLE AND SHALL COMPLY WITH THE SAFETY REQUIREMENTS OF LOCAL BUILDING CODE AND ALL OTHER APPLICABLE LOCAL, STATE AND FEDERAL LAWS.

PROVIDE ALL SHORING, BRACING AND SHEETING AS REQUIRED FOR SAFETY STRUCTURAL STABILITY AND FOR THE PROPER EXECUTION OF THE WORK REMOVE WHEN WORK IS COMPLETED

AT ALL TIMES, PROVIDE PROTECTION AGAINST WEATHER (RAIN, WIND, STORMS OR THE SUN), AS TO MAINTAIN ALL WORK, MATERIALS, APPARATUS AND FIXTURES FREE FROM INJURY OR DAMAGE. PROVIDE ADEQUATE BRACING TO THE ELEMENTS ALREADY IN PLACE (ESPECIALLY MASONRY WALLS) AGAINST WIND FORCES CAPABLE OF DAMAGING THIS WORK

AT THE END OF THE DAY'S WORK, COVER ALL WORK LIKELY TO BE DAMAGED. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTION SHALL BE REMOVED AND REPLACED WITH NEW WORK AT THE CONTRACTOR'S

THE CONTRACTOR SHALL PAY FOR ALL DAMAGES TO ADJACENT STRUCTURES, SIDEWALKS, & TO STREETS OR PUBLIC UTILITIES.

BUILDING NOTES

GROSS AREA: CONDITIONED AREA: MAX BUILDING HEIGHT OF ADDITION: CONSTRUCTION TYPE: OCCUPANCY TYPE/LOADS: FIRE SPRINKLER/ ALARM: **EXISTING LAND USE:** PROPOSED USE: FLOOD ZONE: SITE AREA: **BUILDING SETBACKS**

SITE PARKING REQUIRED

SITE PARKING PROVIDED

HC (HEAVY COMMERCIAL) HC (HEAVY COMMERCIAL) .41 ACRES (17,955 SF) SEE SURVEY 10 SPACES

11 SPACES

5,550 GSF

2,229 SF

24'-0" (1 - STORY)

APPLICABLE CODES

INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL FUEL GAS CODE 2018 INTERNATIONAL FIRE CODE 2018 NATIONAL ELECTRIC CODE 2017 INTERNATIONAL ENERGY CONSERVATION CODE 2018 ALL CURRENT CITY OF PHARR, TX ORDINANCES

SHEET LIST

GENERAL

G1.0 TITLE SHEET G2.0 PROJECT IMAGES G3.0 SITE PLAN

G4.0 LIFE SAFETY PLAN

AMERICAN LAND TITLE ASSOCIATION ALTA SURVEY BY OTHERS

ARCHITECTURE

A1.0 OVERALL FLOOR PLAN A1.1 OFFICE FLOOR PLAN

A1.2 REFLECTED CEILING PLAN

A1.3 ROOF PLAN

A2.0 EXTERIOR BUILDING ELEVATIONS A2.1 EXTERIOR BUILDING ELEVATIONS

A3.0 BUILDING SECTIONS

A3.1 BUILDING SECTIONS

A4.0 CONCEPT OFFICE FURNITURE PLAN

A4.1 OFFICE INTERIOR ELEVATIONS

A4.2 OFFICE INTERIOR ELEVATIONS

A4.3 ACCESSIBLE RESTROOM PLANS

A4.4 DUMPSTER ENLOSURE PLAN, ELEVATIONS, SECTIONS A5.0 EXTERIOR DETAILS

A5.1 SITE DETAILS

A6.0 SCHEDULES & DOOR / WINDOW ELEVATIONS

A6.1 PARTITION SCHEDULE

STRUCTURE S1.0 FOUNDATION PLAN

S1.1 DETAILS

MECHANICAL M0.0 MECHANICAL SYMBOLS & ABBREVIATIONS

M0.1 MECHANICAL DETAILS M1.0 MECHANICAL PLAN

ELECTRICAL E0.0 ELECTRICAL SYMBOLS & ABBREVIATIONS AND GENERAL NOTES

E0.1 ELECTRICAL DETAILS

E1.0 LIGHTING PLAN

E1.1 EXTERIOR LIGHTING PLAN E2.0 POWER PLAN

E3.0 ELECTRICAL ONE LINE DIAGRAM & SCHEDULES

PLUMBING

P0.0 PLUMBING SYMBOLS AND ABBREVIATIONS

P1.0 PLUMBING PLAN

P2.0 PLUMBING RISERS & SCHEDULES

P3.0 PLUMBING DETAILS

DUNCAN ARCHITECTS

TRDI OFFICE AND **WAREHOUSE**

941 W. SHARM DR **PHARR, TX 78577**

OWNER TRDI **DUNCAN ARCHITECTS LLC** 425 SOLEDAD, SUITE 800 804 PECAN BLVD, SUITE 113 SAN ANTONIO, TX 78205 McALLEN, TX 78501 210-572-0402 956-443-3755

RGV STRATA 4900 TEXAN ROAD MISSION, TX 78574

956-802-7328

MEP ENGINEER RO ENGINEERING, PLLC 2705 E. DAVIS RD. EDINBURG, TX 78540 (956) 292-3336

956-379-3857

STRUCTURAL ENGINEER
ATLAS ENGINEERING LANDSCAPE ARCHITEC HEFFNER DESIGN TEAM 4100 N. 22ND STREET CONSULTANTS, LLC 500 SOUTH 11TH STREET McALLEN, TX 78504 956-540-7850 McALLEN, TX 78501

P.E.M.B. SUPPLIER & E.O.R.

REV.	DESCRIPTION	DATE
Α	90% CONSTRUCTION DOCUMENTS	02/02/2024
В	CONSTRUCTION DOCUMENTS FOR BIDDING	02/16/2022

FEBRUARY 16TH, 2024 CONSTRUCTION DOCUMENTS FOR BIDDING

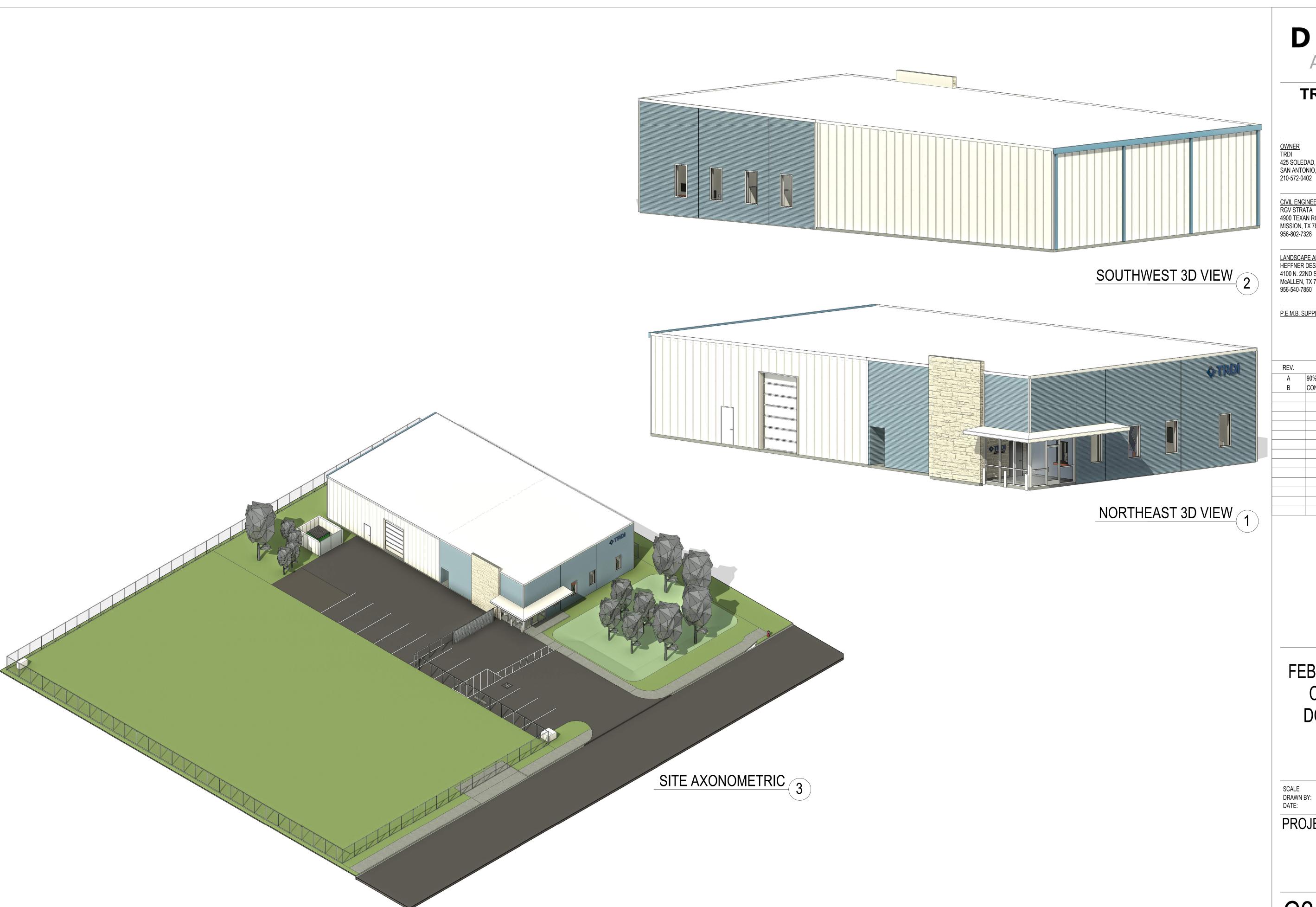
NOT FOR REGULATORY APPROVAL PERMITTING, OR CONSTRUCTION

12" = 1'-0"

DUNCAN ARCHITECTS 16 FEBRUARY 2024

TITLE SHEET

G1.0



DUNCAN

ARCHITECTS

TRDI OFFICE AND WAREHOUSE 941 W. SHARM DR. PHARR, TX 78577

425 SOLEDAD, SUITE 800 SAN ANTONIO, TX 78205

ARCHITECT DUNCAN ARCHITECTS LLC 804 PECAN BLVD, SUITE 113 McALLEN, TX 78501 956-443-3755

<u>CIVIL ENGINEER</u> RGV STRATA 4900 TEXAN ROAD MISSION, TX 78574 MEP ENGINEER RO ENGINEERING, PLLC 2705 E. DAVIS RD. EDINBURG, TX 78540 (956) 292-3336

LANDSCAPE ARCHITECT HEFFNER DESIGN TEAM 4100 N. 22ND STREET McALLEN, TX 78504 956-540-7850

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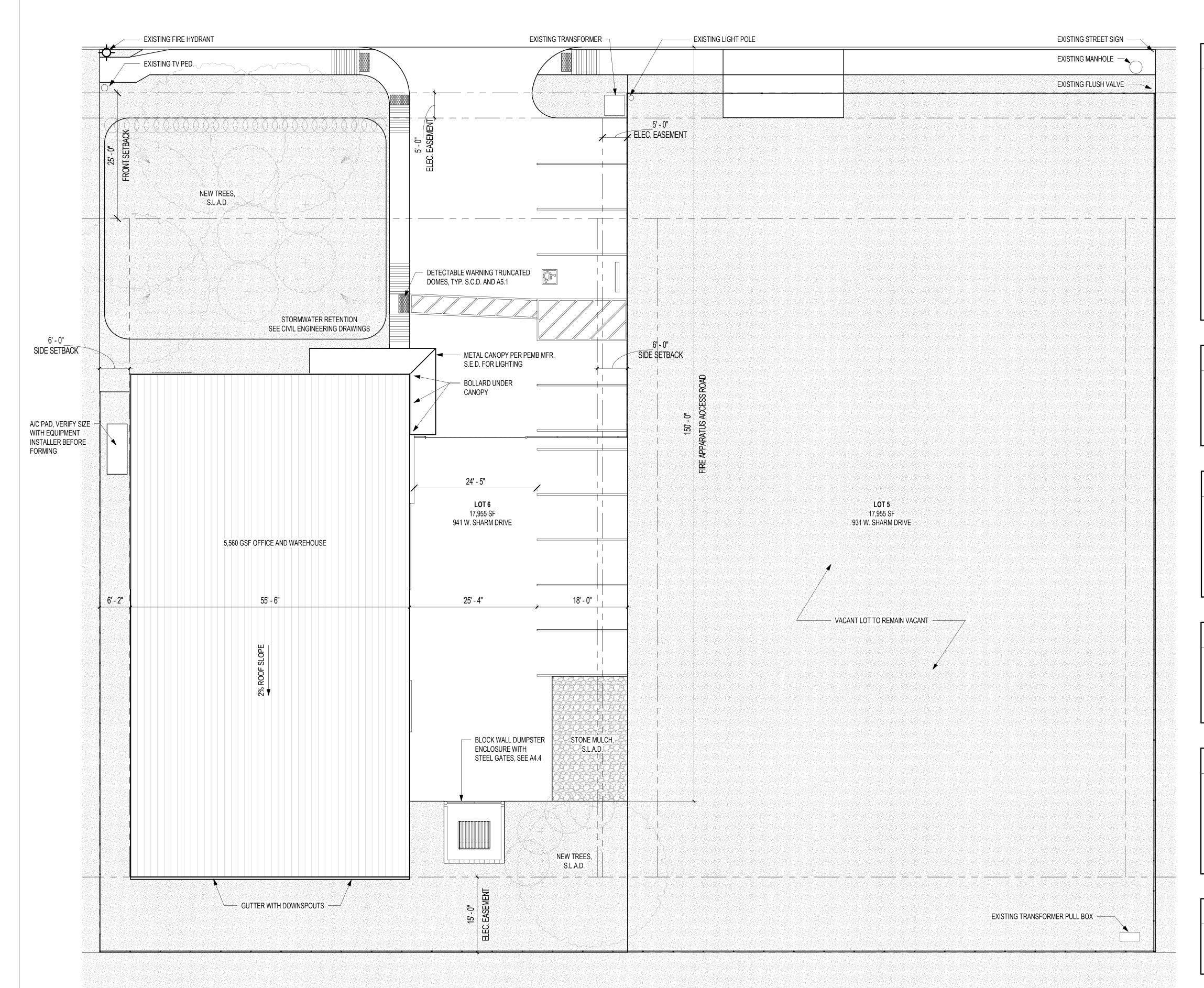
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PROJECT IMAGES

G2.0



COMMERCIAL PARKING TABULATION

PER: PLANNING DEPARTMENT, CITY OF PHARR, TEXAS

REQUIREMENTS:

THREE SPACES FOR UP TO 300 SQUARE FEET OF FLOOR AREA, PLUS ONE SPACE FOR EACH ADDITIONAL 300 SQUARE FEET OF FLOOR AREA.

PROPOSED TOTAL AREA **OMITTED AREAS** 134 SF WOMEN'S RESTROOM 112 SF LOBBY 112 SF 112 SF ADMIN OFFICE MEN'S RESTROOM 239 SF JANITOR'S CLOSET 37 SF LARGE CONFERENCE 153 SF 26 SF MANAGER'S OFFICE STORAGE OFFICE 91 SF 42 SF COPY / STORAGE 76 SF 329 SF TOTAL SMALL CONF. / OFFICE 142 SF 51 SF WALL CAVITIES 124 SF CORRIDOR

161 SF

1,776 SF

PARKING TABULATION:

BREAK ROOM

OPEN OFFICE

1,776 SF OFFICE = 8 SPACES 3,061 SF WAREHOUSE = 2 SPACES

10 PARKING SPACES REQUIRED
11 PARKING SPACES PROVIDED

LEGAL DESCRIPTION

LOTS FIVE (5) AND SIX (6) JOHNSTONE SUPPLY SUBDIVISION, AN ADDITION TO THE CITY OF PHARR, HIDALGO COUNTY, TEXAS, AS PER MAP OR PLAT THEREOF RECORDED UNDER DOCUMENT NUMBER 2407382, MAP RECORDS, HIDALGO COUNTY, TEXAS.

SIGN NOTE

MONUMENT/POLE SIGN, DIRECTIONAL SIGNS, WALL-MOUNTED IDENTIFICATION SIGNS, AND ALL OTHER SIGNS IN THE PROJECT ARE TO BE LOCATED AS INDICATED BY OTHERS (SELECTION BY OWNER)- SIGN CONSTRUCTION AND APPEARANCE TO ADHERE TO ALL CODES AND ORDINANCES OF CITY OF PHARR, TEXAS, AND ALL APPLICABLE SECTIONS AND AMENDMENTS OF THE INTERNATIONAL BUILDING CODE - ALL SIGNS INSTALLED IN THIS PROJECT REQUIRE A SEPARATE PERMIT FROM THE CITY OF SAN JUAN BUILDING DEPARTMENT.

PAVING AND UTILITIES

SEE CIVIL ENGINEER'S DRAWINGS FOR ALL ASPHALT AND CONCRETE PAVING ELEVATIONS, CONCRETE CURBS, ROADWAY CURVE RADIUSES, ROADWAY AND HANDICAP SIGNAGE, UNDERGROUND UTILITIES LOCATIONS, DRAINAGE CATCH BASINS, CONCRETE FLUMES, DRAINAGE CALCULATIONS, AND ALL ASSOCIATED ENGINEERING DETAILS AND NOTES.

EXISTING PAVEMENT NOTE

GENERAL CONTRACTOR TO INSPECT AND VERIFY ALL EXISTING SITE CONDITIONS - CONTRACTOR TO TAKE MEASURES TO PROTECT ALL ITEMS THAT ARE TO REMAIN THROUGHOUT THE CONSTRUCTION PROCESS - ANYTHING DAMAGED OR IN POOR CONDITION TO BE IDENTIFIED, LOGGED, AND ADDRESSED - PATCH, REPAIR, OR REPLACE ADJACENT EXISTING ROADWAY PAVEMENT, CURBS, STRIPING, CATCH BASINS AND ROAD SIGNS THAT ARE SCHEDULED TO REMAIN - INSTALL AS PER COUNTY CODES AND THE IBC.

UNDERGROUND UTILITIES

ALL UTILITIES SHALL BE INSTALLED UNDERGROUND ON THE SITE. SEE CIVIL ENGINEER'S, LANDSCAPE ARCHITECT'S, AND MECHANICAL ENGINEER'S DRAWINGS FOR ALL SPECIFICATIONS AND DETAILS.

SITE PLAN 1

DUNCAN ARCHITECTS

TRDI OFFICE AND WAREHOUSE

941 W. SHARM DR. PHARR, TX 78577

OWNER TRDI 425 SOLEDAD, SUITE 800 SAN ANTONIO, TX 78205 210-572-0402

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FEBRUARY 16TH, 2024 CONSTRUCTION DOCUMENTS FOR BIDDING

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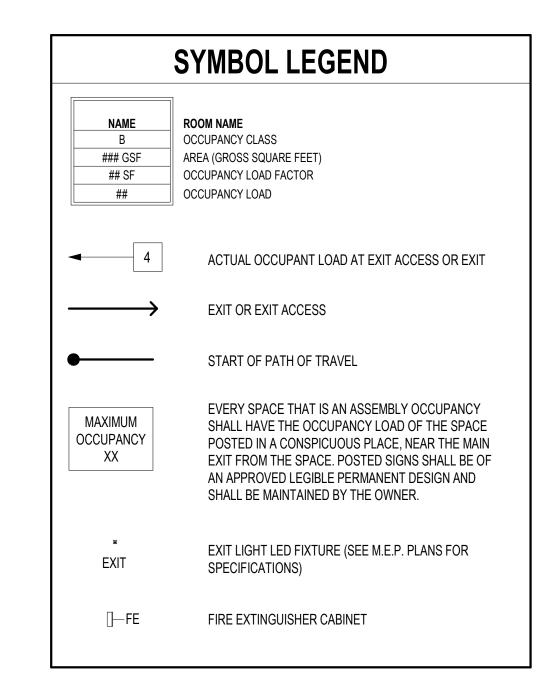
SCALE As indicated
DRAWN BY: DUNCAN AR

DRAWN BY: DUNCAN ARCHITECTS
DATE: 16 FEBRUARY 2024

SITE PLAN

G3.0

LIFE SAFETY PROJECT DATA MAXIMUM ALLOWED: 200 FEET (IBC CHAPTER 10 - TABLE 1017.2) MAXIMUM DISTANCE: 69 FEET **DEAD END TRAVEL DISTANCE:** MAXIMUM ALLOWED: 50 FEET (IFC CHAPTER 11 - TABLE 1104.18) MAXIMUM DISTANCE: N/A **CORRIDOR WIDTH:** MINIMUM ALLOWED: 44 INCHES (IBC CHAPTER 10 - TABLE 1020.2) MINIMUM PROVIDED: 48 INCHES MINIMUM REQUIRED: 1 (1 TO 500 OCC) (IBC CHAPTER 10 - TABLE 1006.2.1) EXITS PROVIDED: 2 TOTAL EGRESS WIDTH: REQUIRED: 52 OCCUPANTS X .2" = 10.4" (IBC CHAPTER 10 - 1005.3.2) PROVIDED: 32" **OCCUPANCY CLASSIFICATIONS:** GROSS = 2345 GSF /150 = 16 OCCUPANTS BY ROOM = 60 OCCUPANTS FIRE SPRINKLERS / ALARM SYSTEM: NO



INTERIOR FINISHES

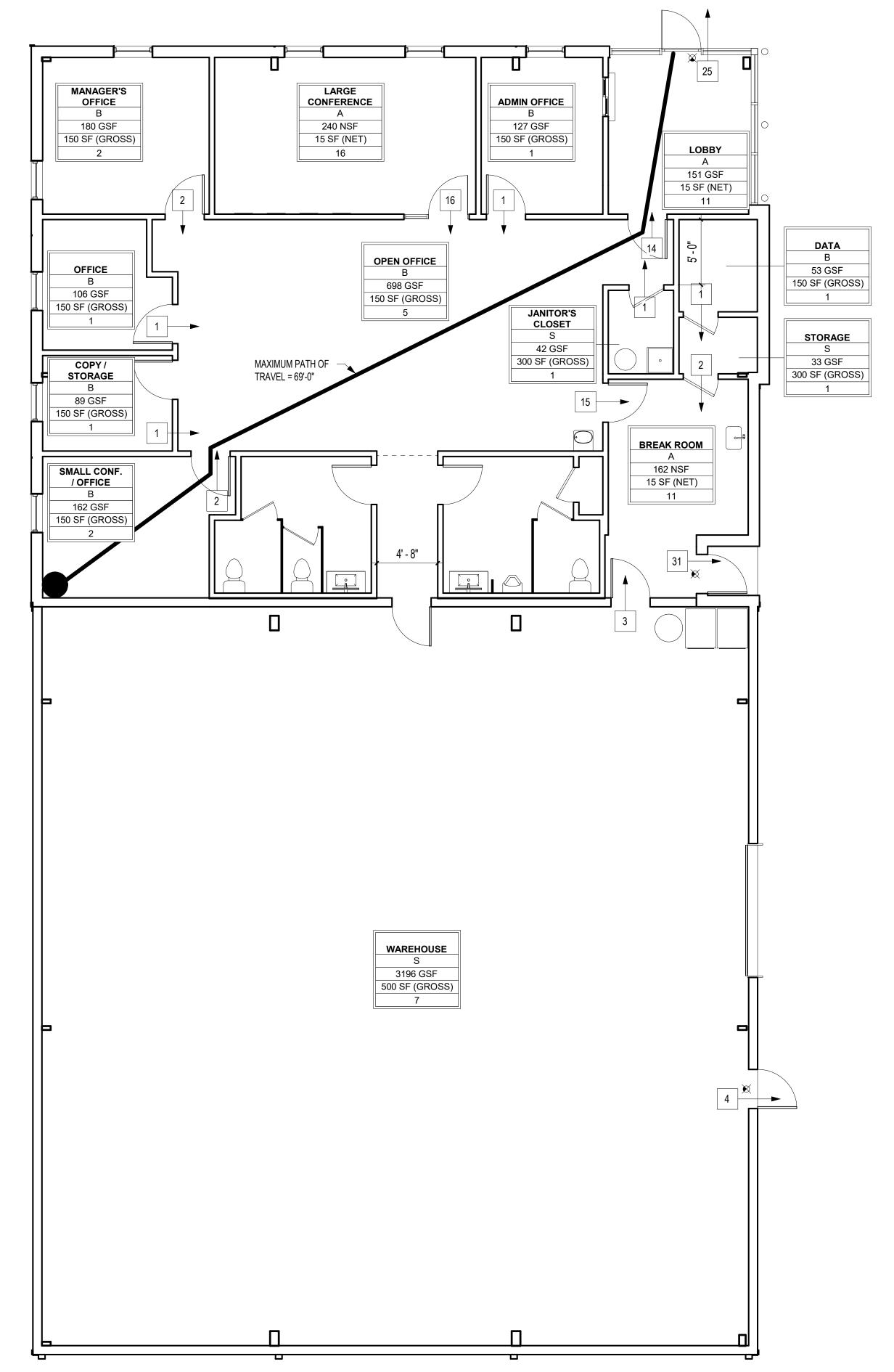
AS PER CHAPTER 10 NFPA 101 LIFE SAFETY CODE REQUIREMENTS, ALL INTERIOR FINISHES IN THE BUILDING SHALL MEET A MINIMUM OF "CLASS A" FOR CEILINGS AND "CLASS B" FOR WALLS CLASSIFICATION REQUIREMENTS IN FULL COMPLIANCE WITH NFPA SECTION 10.2 INTERIOR FINISH CODE REQUIREMENTS -ALL INTERIOR FINISHED SHALL ALSO FULLY COMPLY WITH ALL CODE REQUIREMENTS OF CHAPTER 8 OF THE INTERNATIONAL BUILDING CODE.

NFPA 101 NOTE

CLASSIFICATION OF HAZARD OF CONTENTS, AS PER NFPA 101, CHAPTER 6, SECTION 6.2.2: "LOW HAZARD"

MINIMUM HEADROOM HEIGHT

ALL ROOMS AND AREAS IN THE PROPOSED BUILDING MEETS OR EXCEEDS THE MINIMUM INTERIOR HEADROOM HEIGHT OF 90" (+7'-6") A.F.F. AS PER NFPA 101 SECTION 7.1.5



DUNCAN ARCHITECTS

TRDI OFFICE AND **WAREHOUSE**

941 W. SHARM DR. PHARR, TX 78577

<u>OWNER</u> TRDI 425 SOLEDAD, SUITE 800 SAN ANTONIO, TX 78205 210-572-0402

DUNCAN ARCHITECTS LLC 804 PECAN BLVD, SUITE 113 McALLEN, TX 78501 956-443-3755

MEP ENGINEER

2705 E. DAVIS RD.

(956) 292-3336

EDINBURG, TX 78540

RO ENGINEERING, PLLC

CIVIL ENGINEER **RGV STRATA** 4900 TEXAN ROAD MISSION, TX 78574 956-802-7328

LANDSCAPE ARCHITECT HEFFNER DESIGN TEAM 4100 N. 22ND STREET McALLEN, TX 78504 956-540-7850

STRUCTURAL ENGINEER ATLAS ENGINEERING CONSULTANTS, LLC 500 SOUTH 11TH STREET McALLEN, TX 78501 956-379-3857

P.E.M.B. SUPPLIER & E.O.R.

REV.	DESCRIPTION	DATE
Α	90% CONSTRUCTION DOCUMENTS	02/02/2024
В	CONSTRUCTION DOCUMENTS FOR BIDDING	02/16/2022

FEBRUARY 16TH, 2024 CONSTRUCTION DOCUMENTS FOR BIDDING

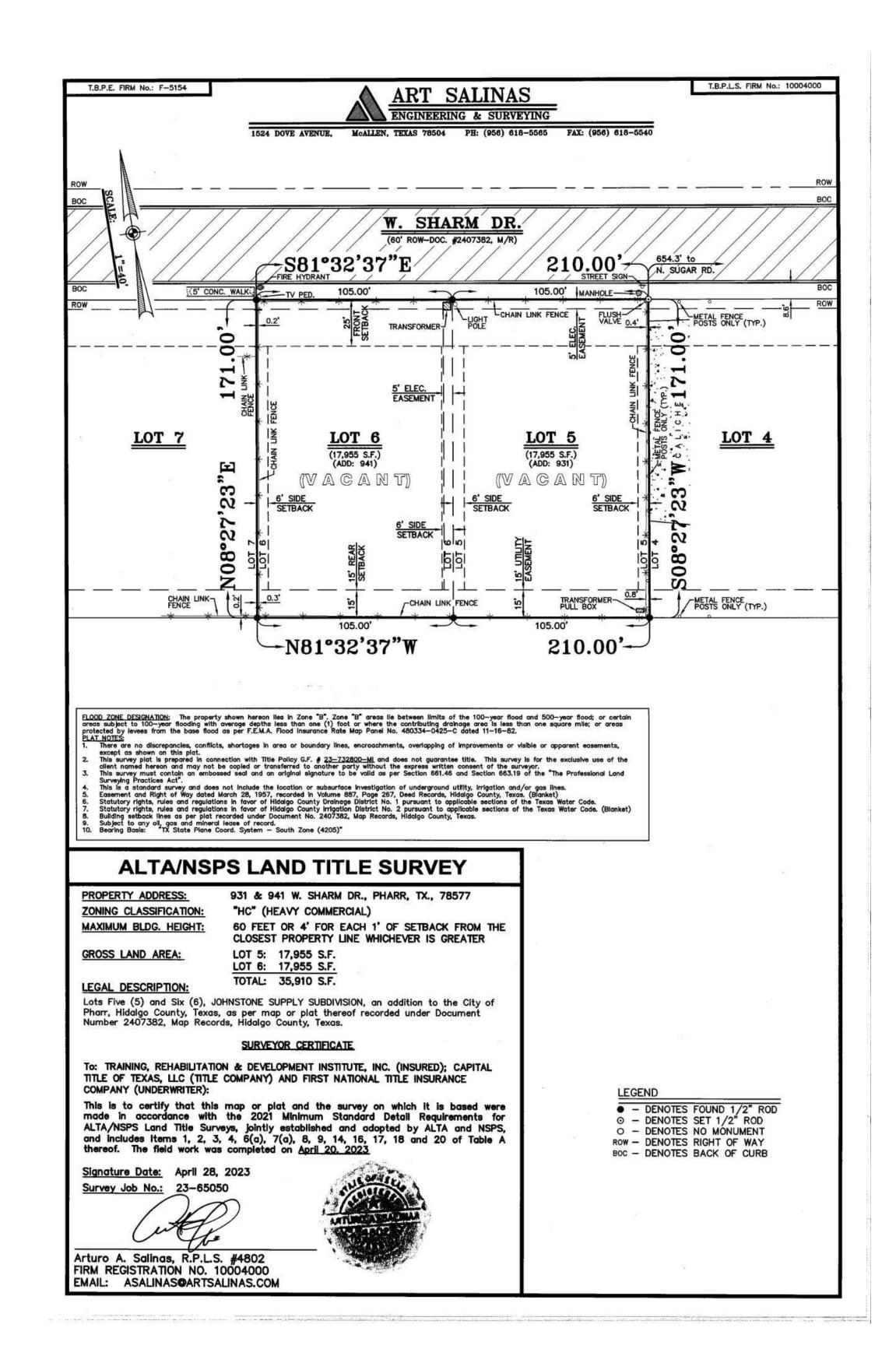
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As indicated DRAWN BY: DUNCAN ARCHITECTS 16 FEBRUARY 2024

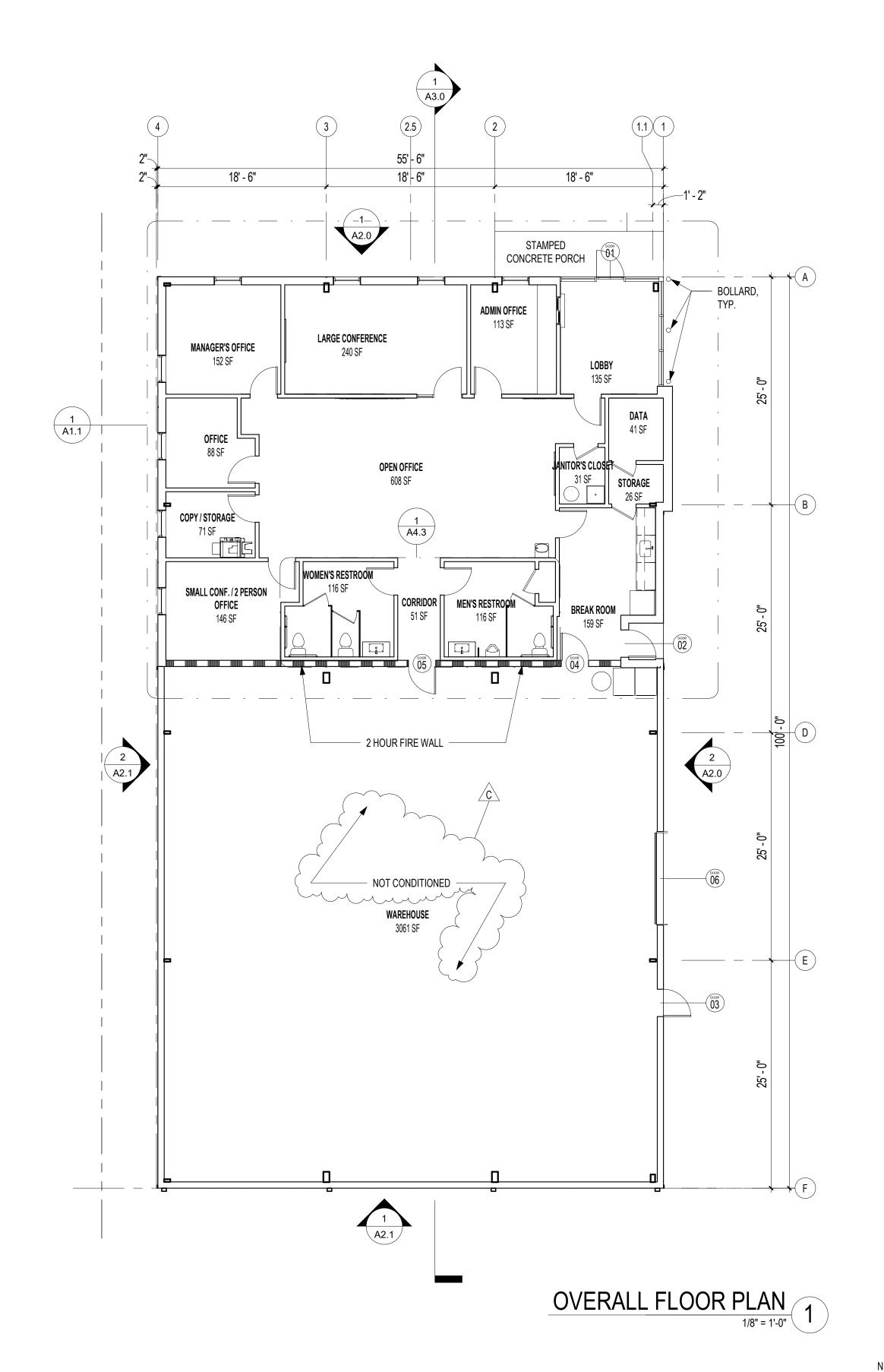
LIFE SAFETY PLAN

G4.0





ALTA



DUNCAN ARCHITECTS

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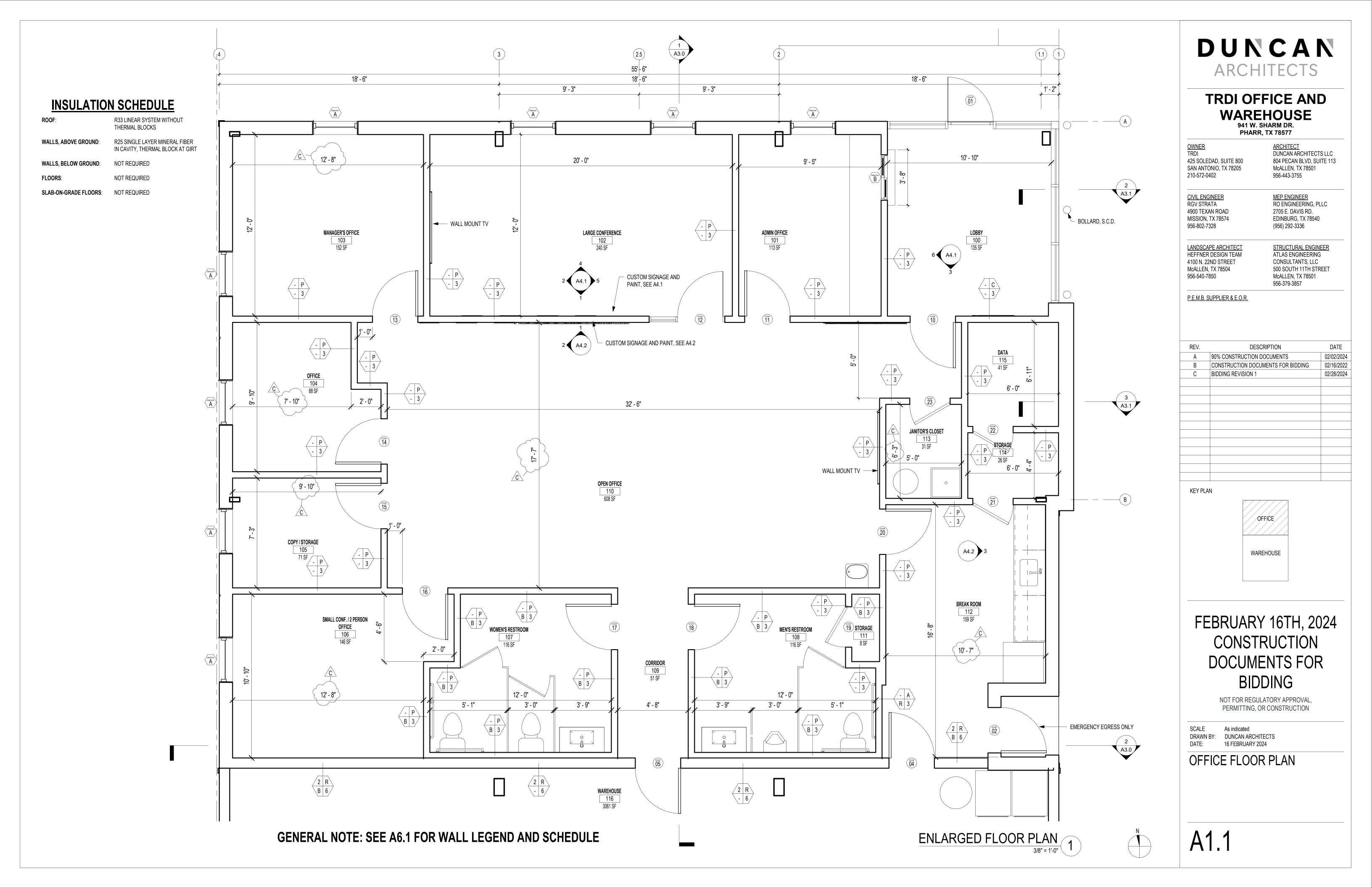
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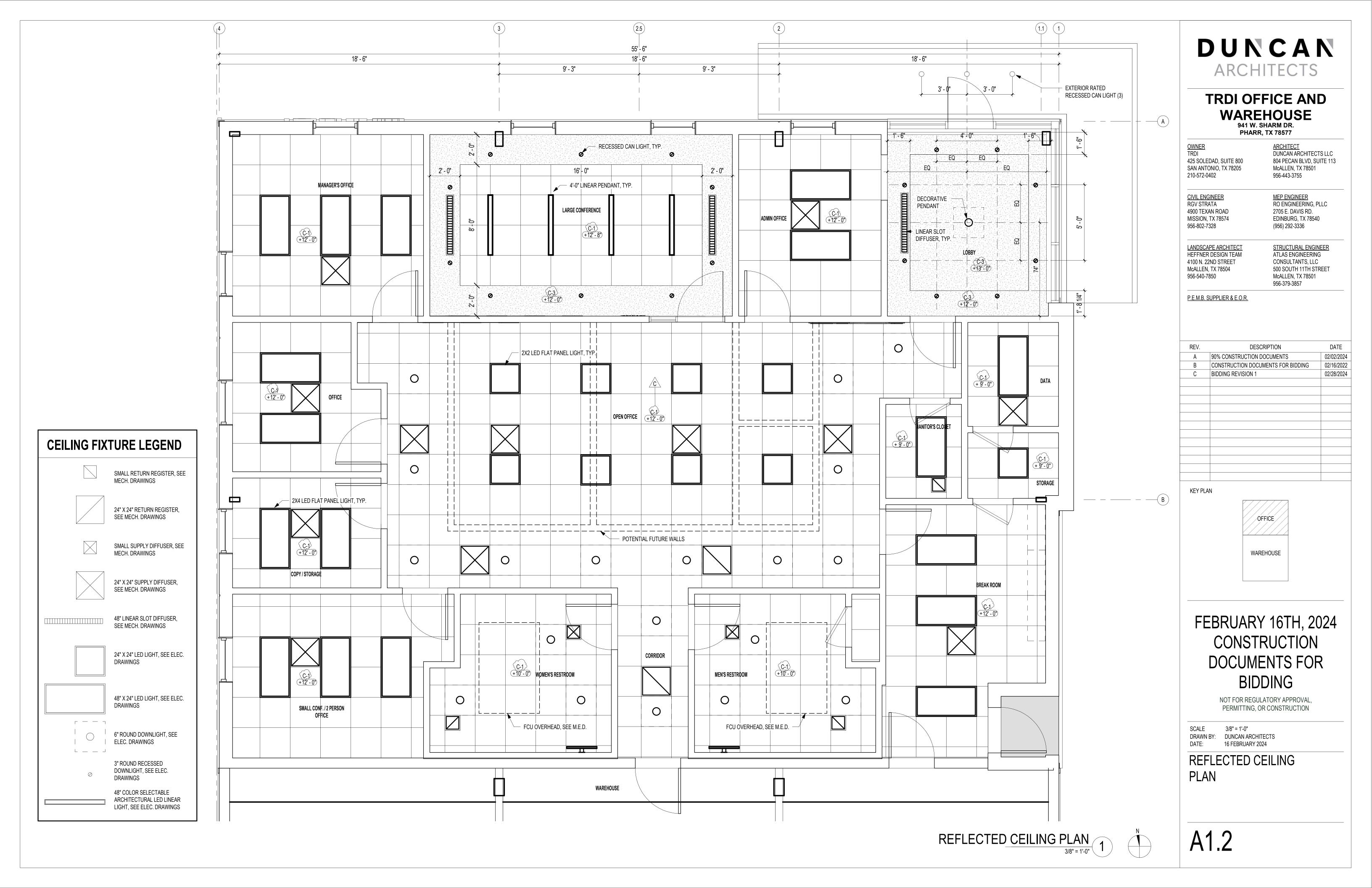
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1/8" = 1'-0" DUNCAN ARCHITECTS 16 FEBRUARY 2024

OVERALL FLOOR PLAN

A1.0

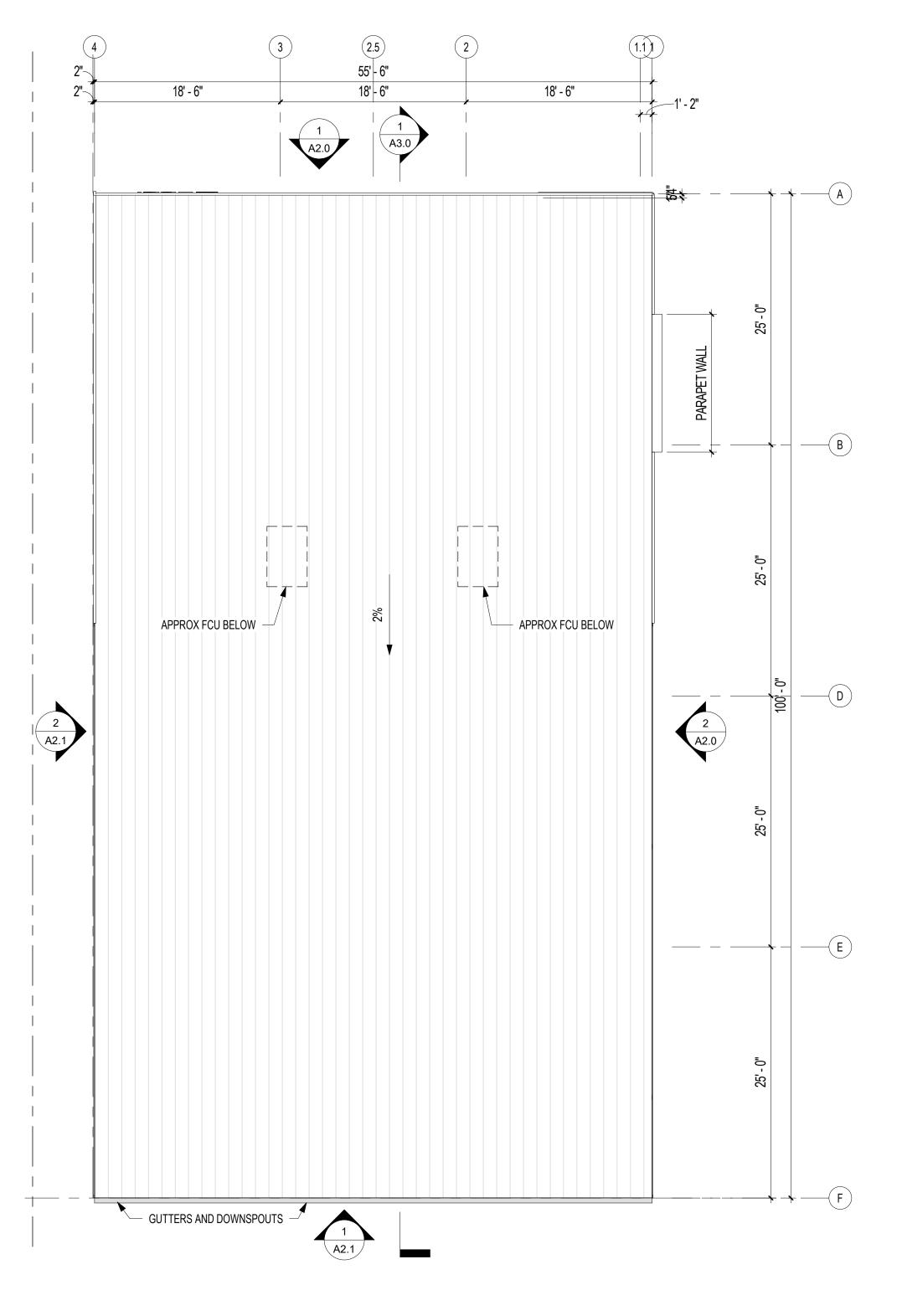




ROOF GENERAL NOTES

- FLASHING: INSTALL CONTINUOUS FULLY-ADHERED MEMBRANE ROOF FLASHING (TYPES VARY) - INSTALL AS PER ROOFING MANUFACTURER'S STANDARD DETAILS AND SPECIFICATIONS. PROVIDE APPROPRIATE HARDWARE (GALVANIZED FASTENERS) TO PREVENT GALVANIC ACTION.
- ROOF PENETRATIONS: ALL ROOF PENETRATIONS TO BE FLASHED BY THE ROOFING CONTRACTOR IN ACCORDANCE WITH MANUFACTURERS WARRANTY REQUIREMENTS. VERIFY QUANTITY & LOCATIONS OF ROOFING PENETRATIONS WITH MECHANICAL ENGINEERING DRAWINGS AND OTHER TRADES.
- RAIN GUTTER: CONTINUOUS FACTORY-FINISHED METAL RAIN GUTTER WITH DOWNSPOUTS, ATTACHED TO EXTERIOR WALLS AS REQUIRED - TO MATCH METAL MT-01 COLOR.
- METAL COPING CAP: PAINTED FABRICATED 26 GA. "U-SHAPED" METAL COPING CAP OVER TOP OF PARAPET WALLS WITH FORMED DRIP EDGE ON EACH SIDE AND CONCEALED FASTENING OVER TAPERED SHIM (AS REQUIRED) ATTACHED TO CONTINUOUS P.T. 2x NAILER AND/OR CONCRETE BEAM. ALL EXPOSED FASTENERS TO BE GALVANIZED.
- BUILT-UP ROOF COUNTER FLASHING: FABRICATED 26 GAUGE 12" HIGH (MIN.) METAL COUNTER FLASHING STOP WITH CANT STRIP WHERE ROOF ABUTS
- ROOF VENT: INSTALL MINIMUM OF (1) MANUFACTURED 8" HIGH SPUN ALUMINUM ONE-WAY ROOF VENT (BY "PORTALS PLUS, INC." OR EQUAL) PER EVERY 900 SQUARE FEET OF ROOF AREA. REFERENCE ROOF MANUFACTURER'S DETAILS FOR INSTALLATION.

INSULATION SCHEDULE ROOF: R33 LINEAR SYSTEM WITHOUT THERMAL BLOCKS WALLS, ABOVE GROUND: R25 SINGLE LAYER MINERAL FIBER IN CAVITY, THERMAL BLOCK AT GIRT -<u>C</u>_ WALLS, BELOW GROUND: NOT REQUIRED NOT REQUIRED **SLAB-ON-GRADE FLOORS**: NOT REQUIRED





DUNCAN ARCHITECTS

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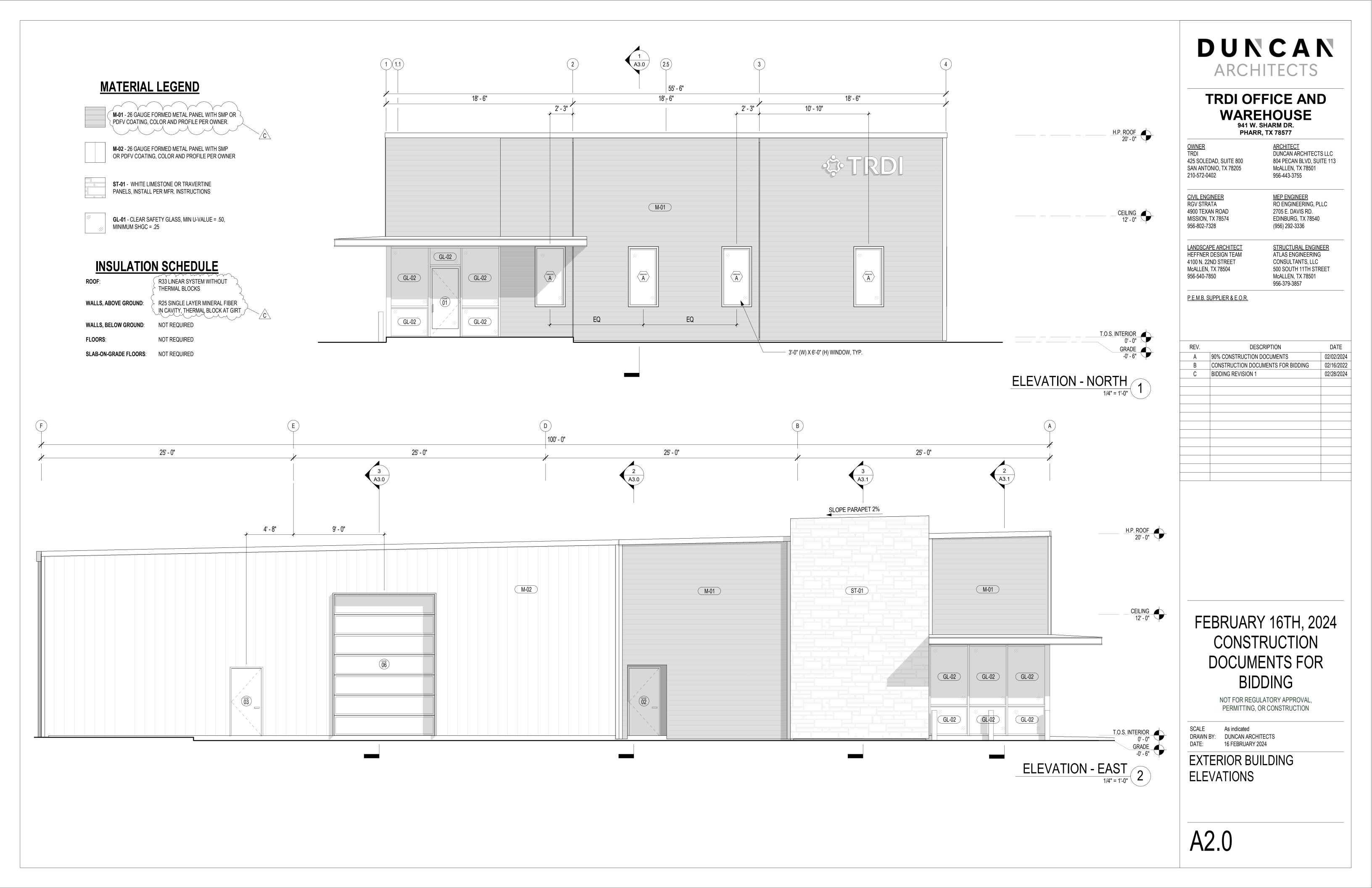
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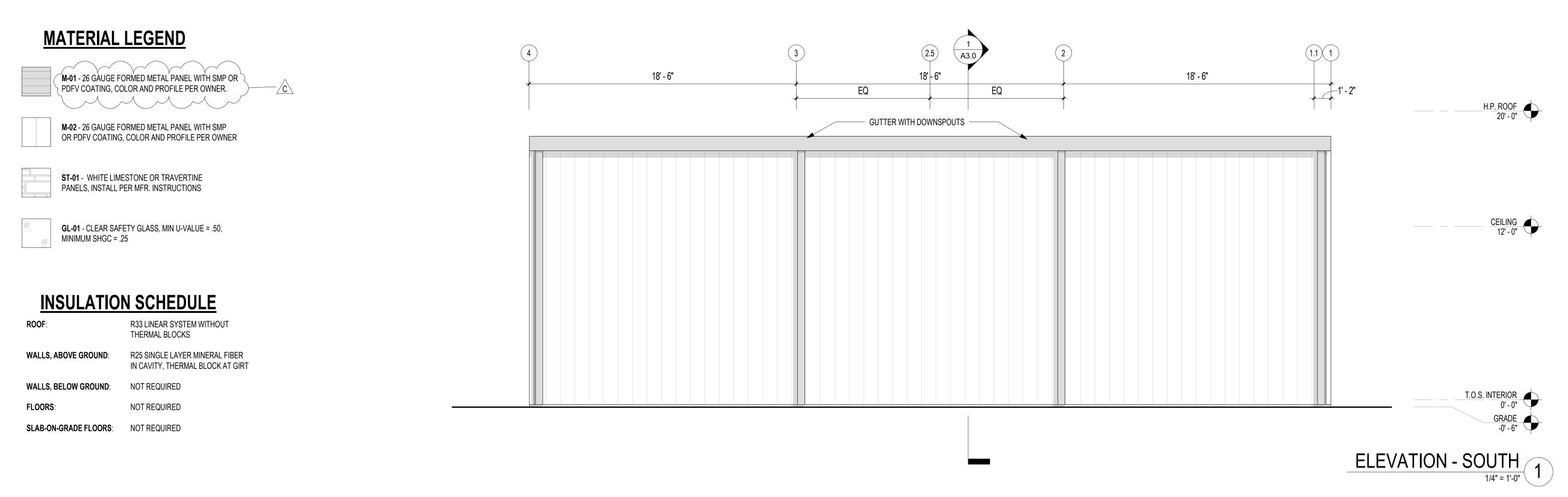
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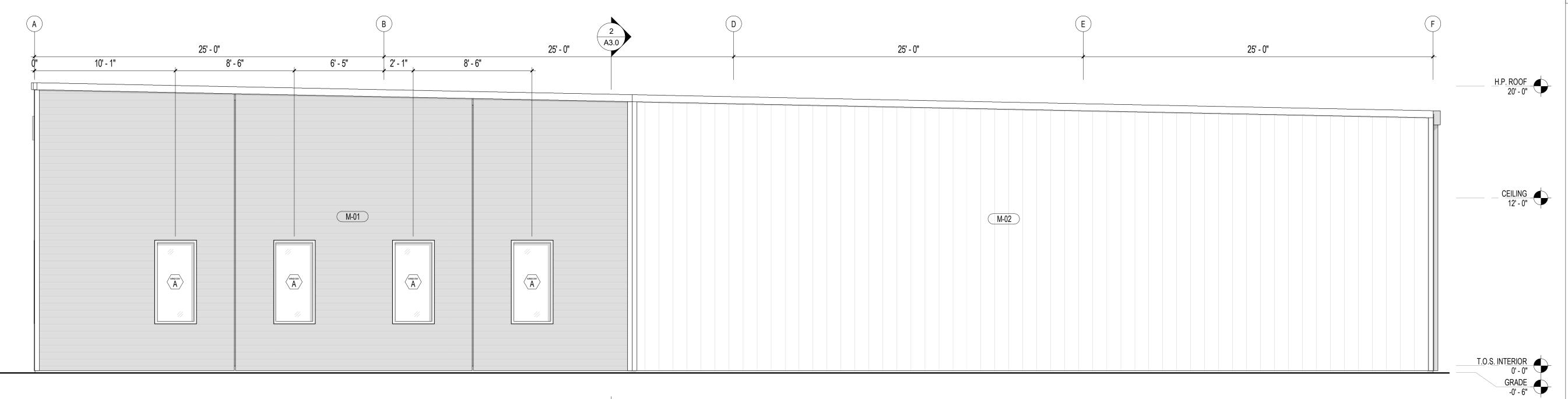
As indicated DRAWN BY: DUNCAN ARCHITECTS
DATE: 16 FEBRUARY 2024

ROOF PLAN

A1.3







ELEVATION - WEST
1/4" = 1'-0"

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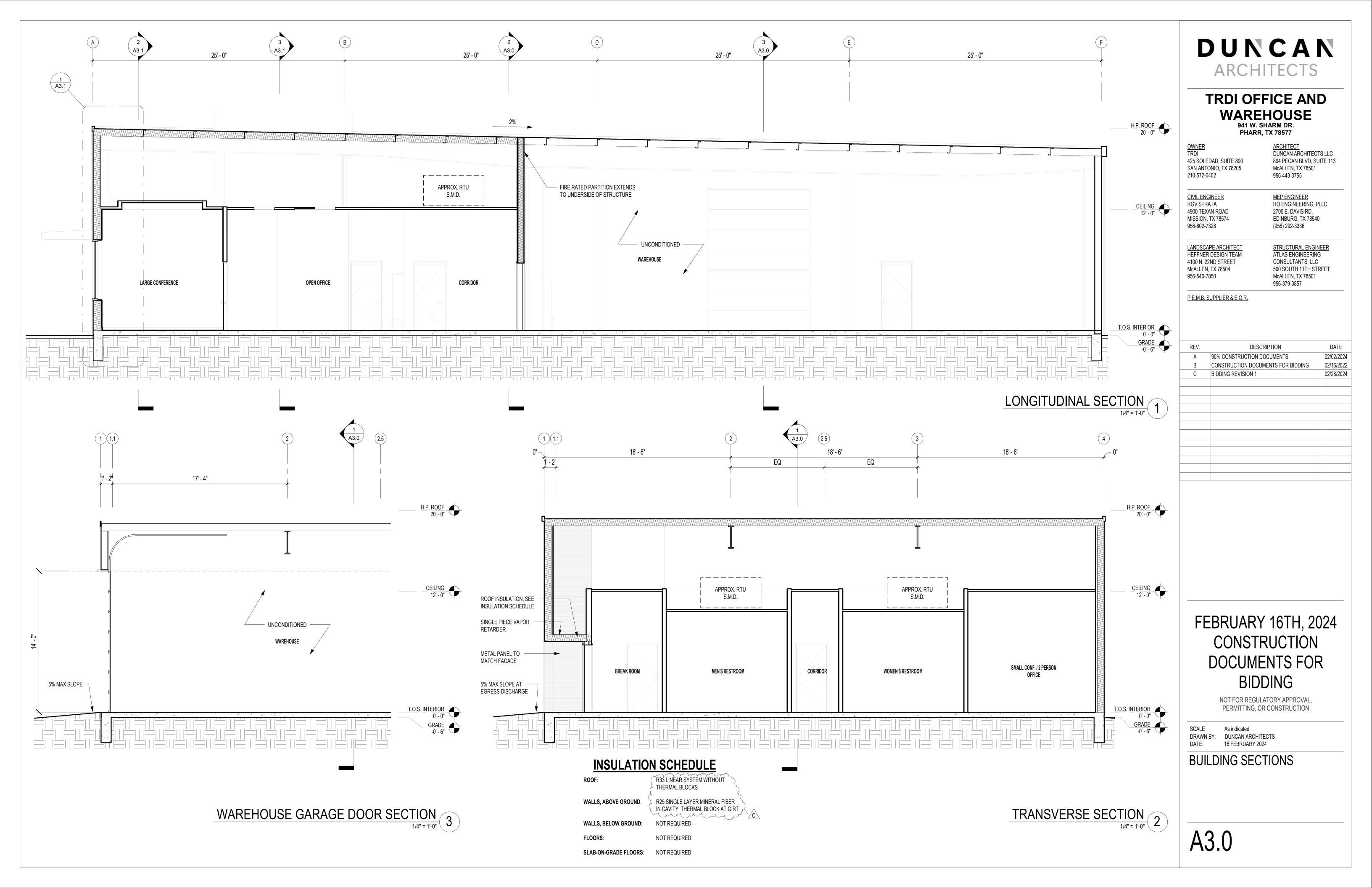
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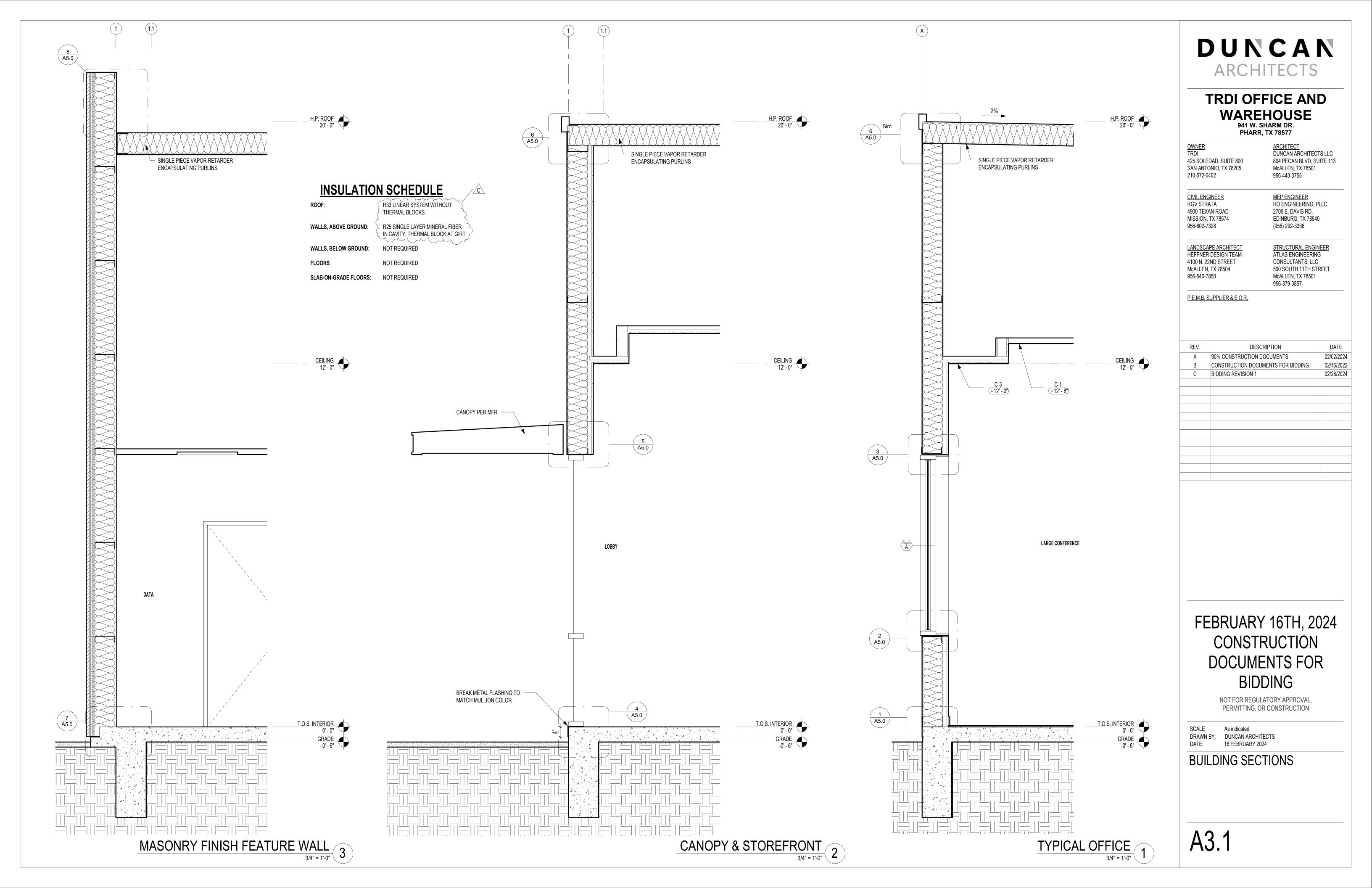
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SCALE As indicated
DRAWN BY: DUNCAN ARCHITECTS
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EXTERIOR BUILDING **ELEVATIONS**

A2.1







DUNCAN

ARCHITECTS

TRDI OFFICE AND

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McALLEN, TX 78501 956-443-3755

ARCHITECT DUNCAN ARCHITECTS LLC

804 PECAN BLVD, SUITE 113

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KEY PLAN



FEBRUARY 16TH, 2024 CONSTRUCTION DOCUMENTS FOR BIDDING

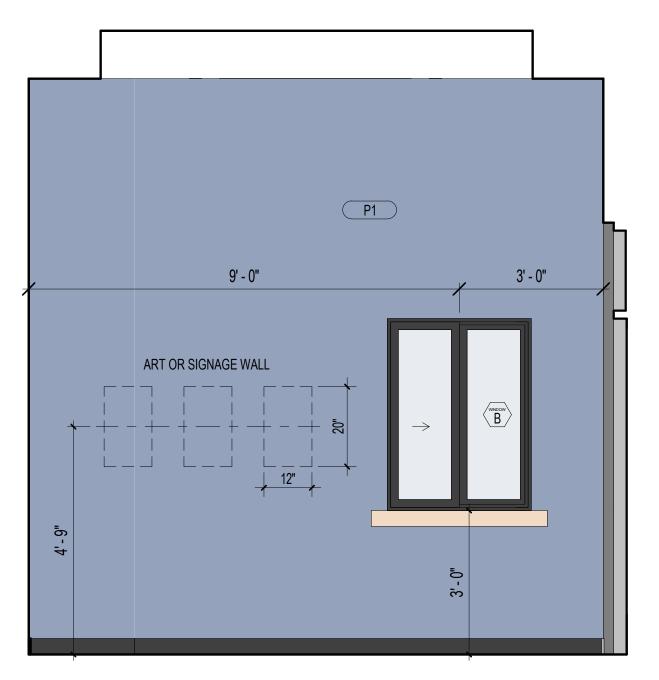
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SCALE 3/8" = 1'-0"

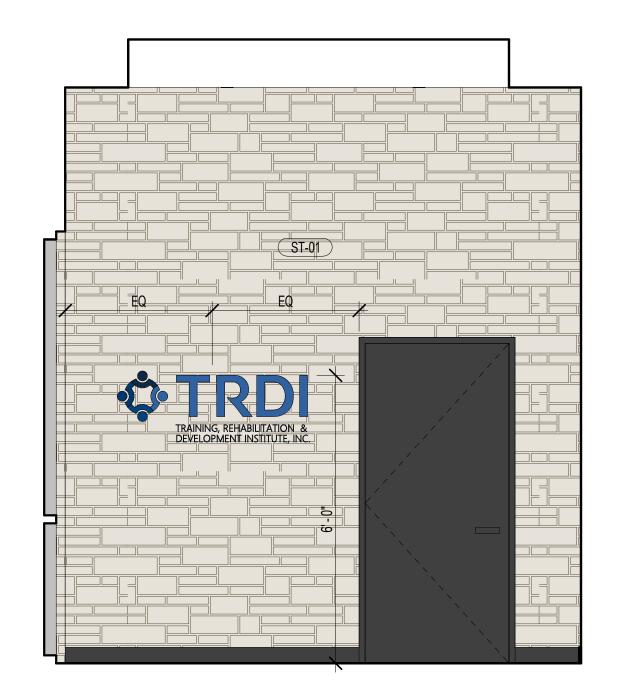
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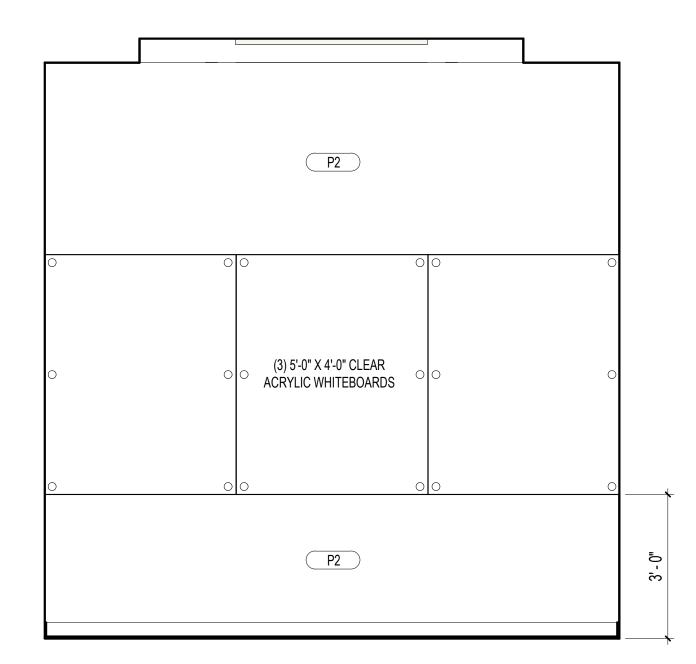
CONCEPT OFFICE FURNITURE PLAN



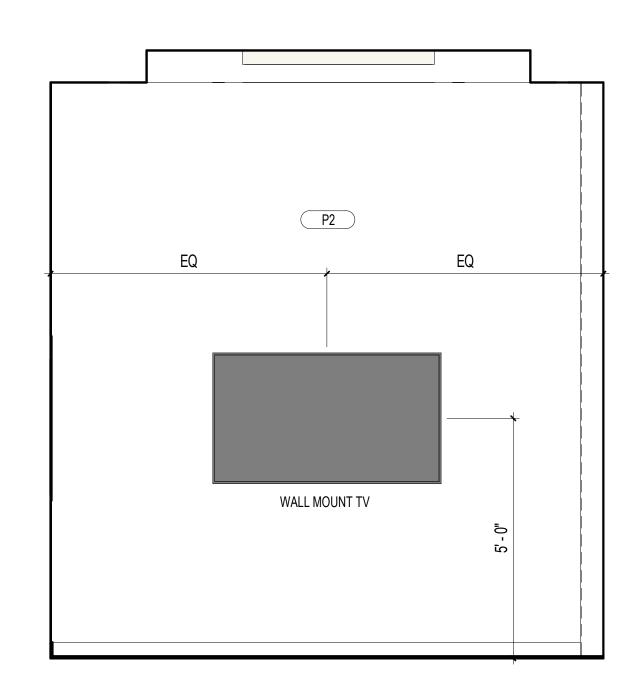




LOBBY - EAST
1/2" = 1'-0"
3

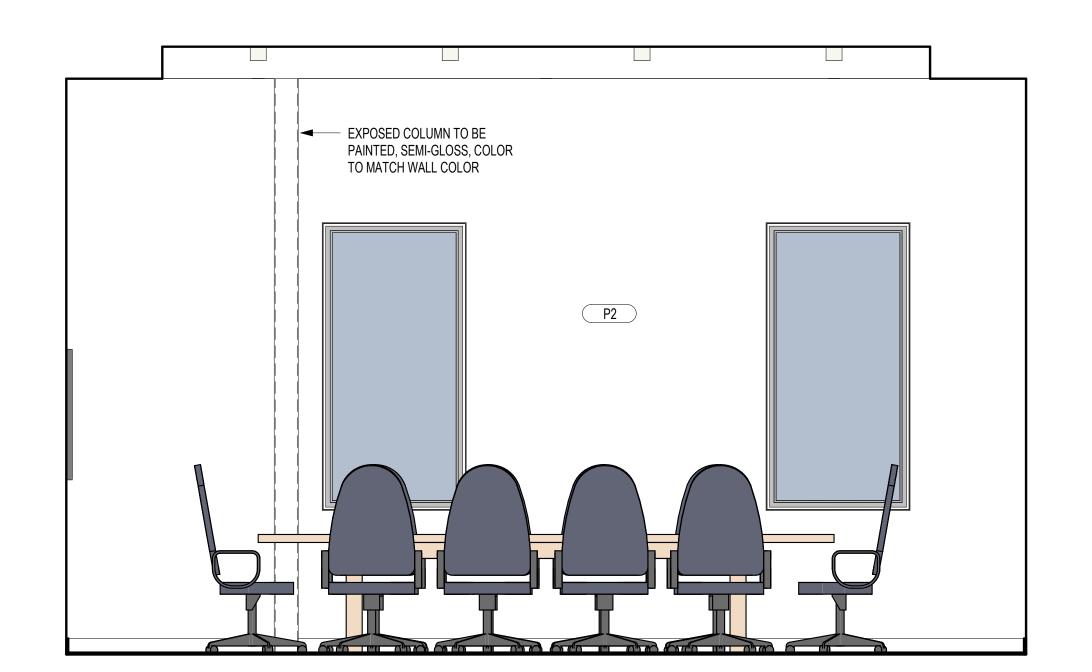




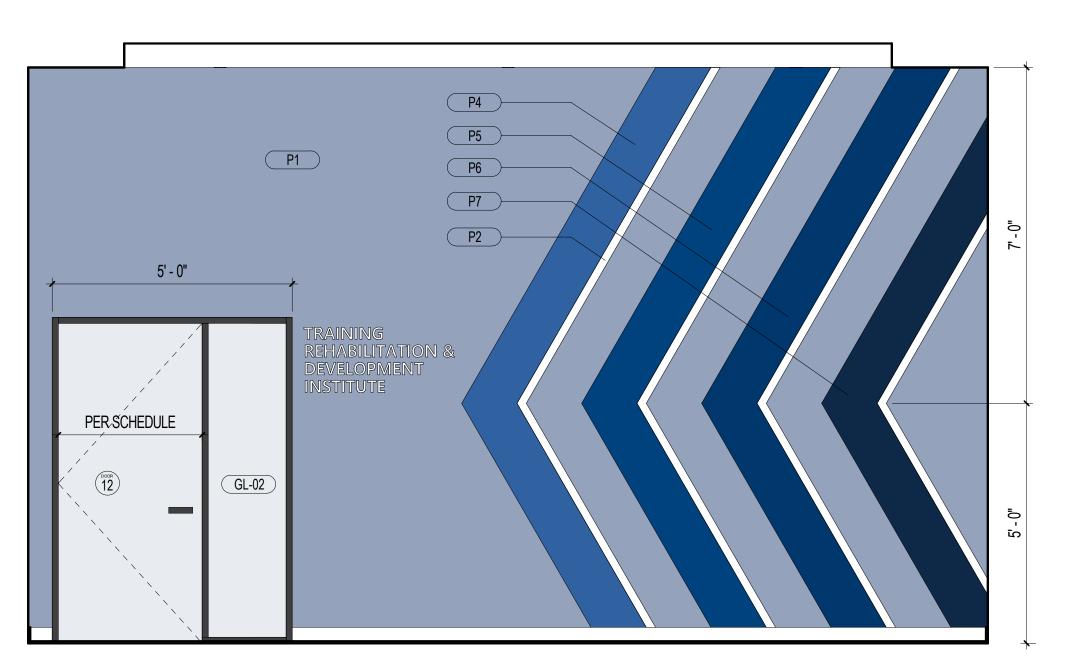


LARGE CONFERENCE - WEST

1/2" = 1'-0"



LARGE CONFERENCE - NORTH
1/2" = 1'-0"
4



LARGE CONFERENCE - SOUTH

1/2" = 1'-0"

1

NOTE: SEE A6.0 FOR FINISH SCHEDULE



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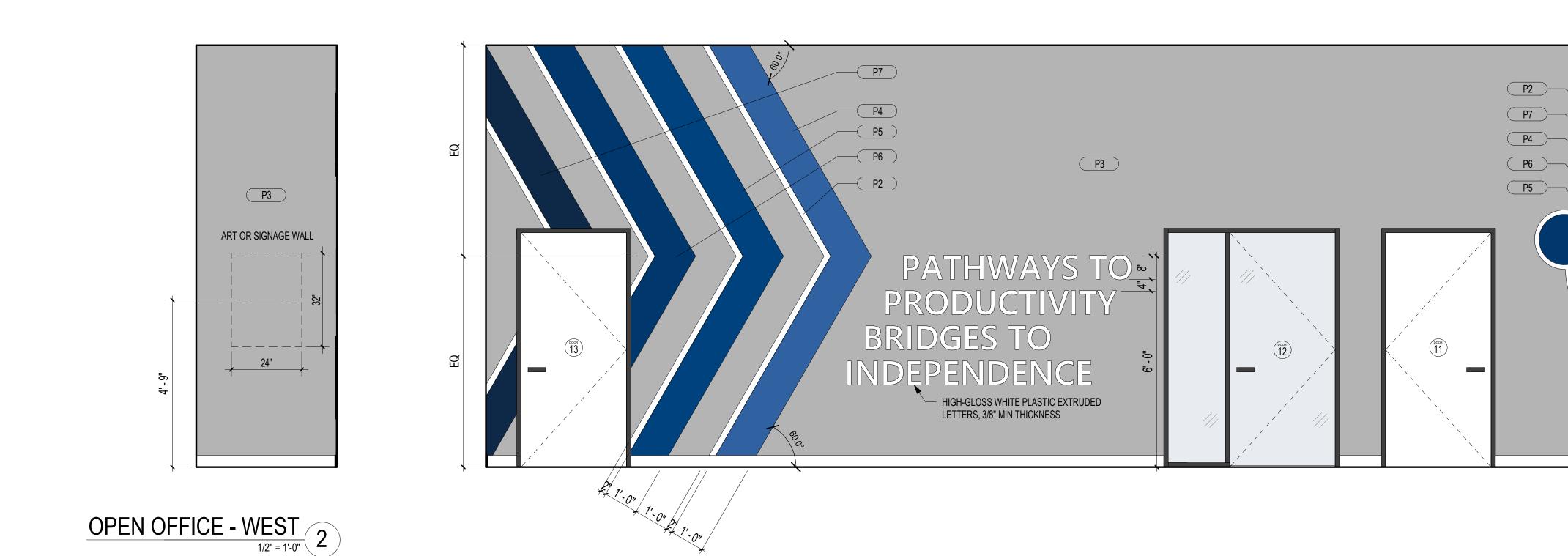
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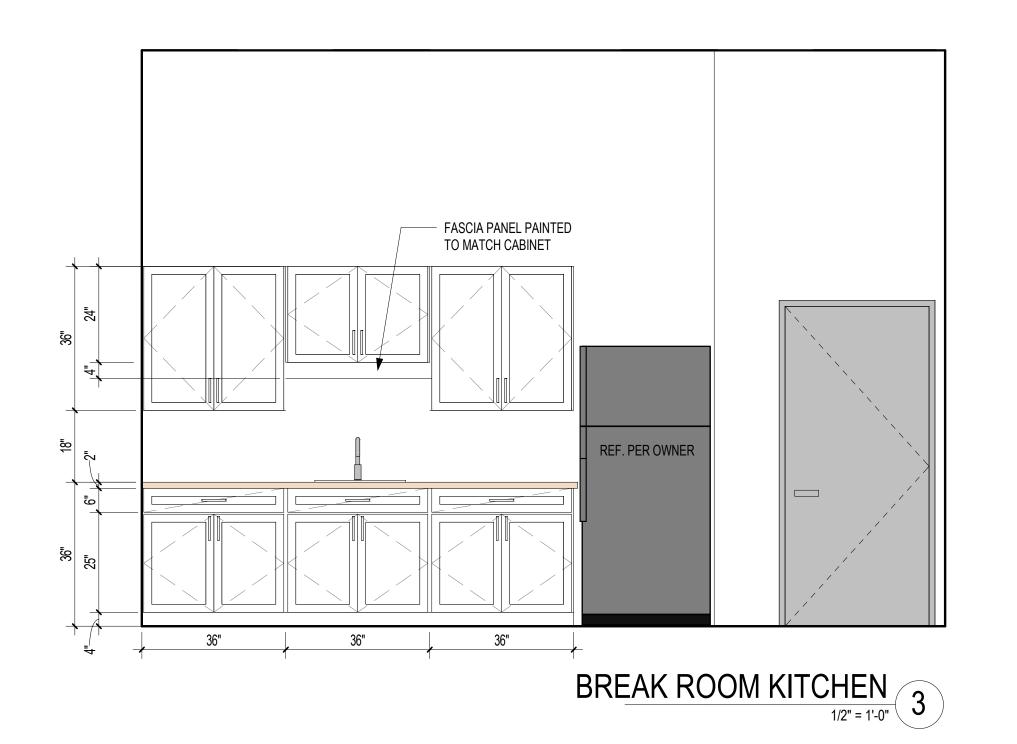
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1/2" = 1'-0" DUNCAN ARCHITECTS 16 FEBRUARY 2024

OFFICE INTERIOR **ELEVATIONS**





DUNCAN ARCHITECTS

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P.E.M.B. SUPPLIER & E.O.R.

- 1 1/2" WHITE BOARDER

OPEN OFFICE - NORTH 1

REV.	DESCRIPTION	DATE
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1	I I	

FEBRUARY 16TH, 2024 CONSTRUCTION DOCUMENTS FOR BIDDING

NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION

1/2" = 1'-0"
DUNCAN ARCHITECTS
16 FEBRUARY 2024

OFFICE INTERIOR **ELEVATIONS**

TEXAS COMPLIANCE NOTE

ALL ACCESSIBILITY OR HANDICAP RELATED EQUIPMENT AND INSTALLATION TO BE IN FULL COMPLIANCE WITH THE "TEXAS ACCESSIBILITY STANDARDS (TAS)", ELIMINATION OF ARCHITECTURAL BARRIERS, TEXAS STATE CODE, CHAPTER 469, ADMINISTRATED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATION, EFFECTIVE MARCH 15, 2012 (WITH ALL CURRENT UPDATES AND AMENDMENTS).

DRINKING FOUNTAIN SPECIFICATIONS

TYPE: TWO (S) SELF-CONTAINED, WALL-HUNG ELECTRIC REFRIGERATED WATER **COOLERS**

FEATURES: HANDICAP ACCESSIBLE, METAL CONSTRUCTION, SPECIFIED FOR INTERIOR USE, BOTTLE FILL STATION

MODEL NUMBER: "EZSTL8WSVRSK" OR APPROVED EQUAL (VERIFY WITH OWNER)

MANUFACTURER: ELKAY USA (PHONE 630-574-8484 - WEBSITE: https://www.elkay.com/us/en.html)

SPECIFICATIONS: INSTALLATION TO BE IN FULL COMPLIANCE WITH ALL APPLICABLE SECTIONS. REQUIREMENTS AND AMENDMENTS OF THE ICC/ANSI A117.1-2015 (ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES) AND THE INTERNATIONAL BUILDING CODE (LATEST EDITION WITH UPDATES), AS WELL AS ALL APPLICABLE FEDERAL, STATE, AND LOCAL ORDINANCES AND REGULATIONS

RESTROOM SIGNS

AT EXTERIOR OF EACH CUSTOMER OR EMPLOYEE RESTROOM, INSTALL AN APPROVED RAISED PLASTIC OR METAL SIGN ON THE DOOR OR ADJACENT WALL INDICATING EITHER "MEN", "WOMEN", OR "RESTROOM" AS PER REQUIREMENTS IN SECTION 7.30 OF THE ICC/ANSI A117.1-2015 WITH ALL CURRENT UPDATES AND ALL OTHER APPLICABLE SECTIONS - AT ALL HANDICAP RESTROOMS, INCLUDE AN A.D.A. APPROVED HANDICAP SYMBOL ON SIGN (SEE SIGN DETAIL ON THIS SHEET).

GENERAL HANDICAP NOTES

- A. ALL HANDICAP-RELATED EQUIPMENT AND INSTALLATION TO BE IN FULL COMPLIANCE WITH ALL APPLICABLE SECTIONS, REQUIREMENTS, AND AMENDMENTS OF THE ICC/ANSI A117.1-2015 (ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES) AND THE INTERNATIONAL BUILDING CODE, AS WELL AS ALL APPLICABLE FEDERAL, STATE, AND LOCAL ORDINANCES AND REGULATIONS.
- B. DIMENSIONS INDICATED ON BOTH THE RESTROOM PLAN AND ELEVATIONS ARE TO FINISHED FLOORS AND WALLS, UNLESS SPECIFICALLY NOTED
- C. DO NOT SCALE THESE DRAWINGS. USE WRITTEN DIMENSIONS ONLY.
- D. CONTRACTOR TO ADJUST ANY AND ALL REQUIRED DIMENSIONS IN RESTROOMS TO ACCOMMODATE THE WALL TILE THICKNESS AND SETTING GROUT (TILE SELECTION BY OWNER).
- E. CONTRACTOR TO ENSURE THAT ALL RESTROOM FIXTURES AND EQUIPMENT ARE PROTECTED DURING CONSTRUCTION AFTER BEING INSTALLED, AND CLEAN OF ANY PAINT OR OTHER DEBRIS PRIOR TO DELIVERY TO OWNER.
- CONTRACTOR TO ENSURE THE "FLUSH LEVER" OF THE WATER CLOSET IS LOCATED ON THE SIDE FACING THE SINK AND WHEELCHAIR TURNING SPACE.

CHANGING TABLE NOTE

WHEN SPECIFIED, INSTALL A PLASTIC WALL-MOUNTED BABY CHANGING STATION ("KOALA KARE" MODEL NO. KB200 WITH UNFOLDED SIZE OF 23" X 35" - OR APPROVED EQUAL) - INSTALL AS PER MANUFACTURER SPECIFICATIONS AND HANDICAP CODES - BOTTOM OF UNIT TO BE 32" A.F.F. MAXIMUM (TYP).

RESTROOM ACCESSORIES

REQUIRED HANDICAP ACCESSIBLE RESTROOM ACCESSORIES FOR THE PROJECT SHALL BE BY BOBRICK WASHROOM EQUIPMENT INC. (OR APPROVED EQUAL). REQUIRED RESTROOM SIGNS BY AMERAPRODUCTS INC. - MINIMUM ACCEPTABLE ACCESSORIES SHALL BE:

MAKE/MODEL

B-6806X18

B-6806X36

B-6806X42

QUANTITY DESCRIPTION

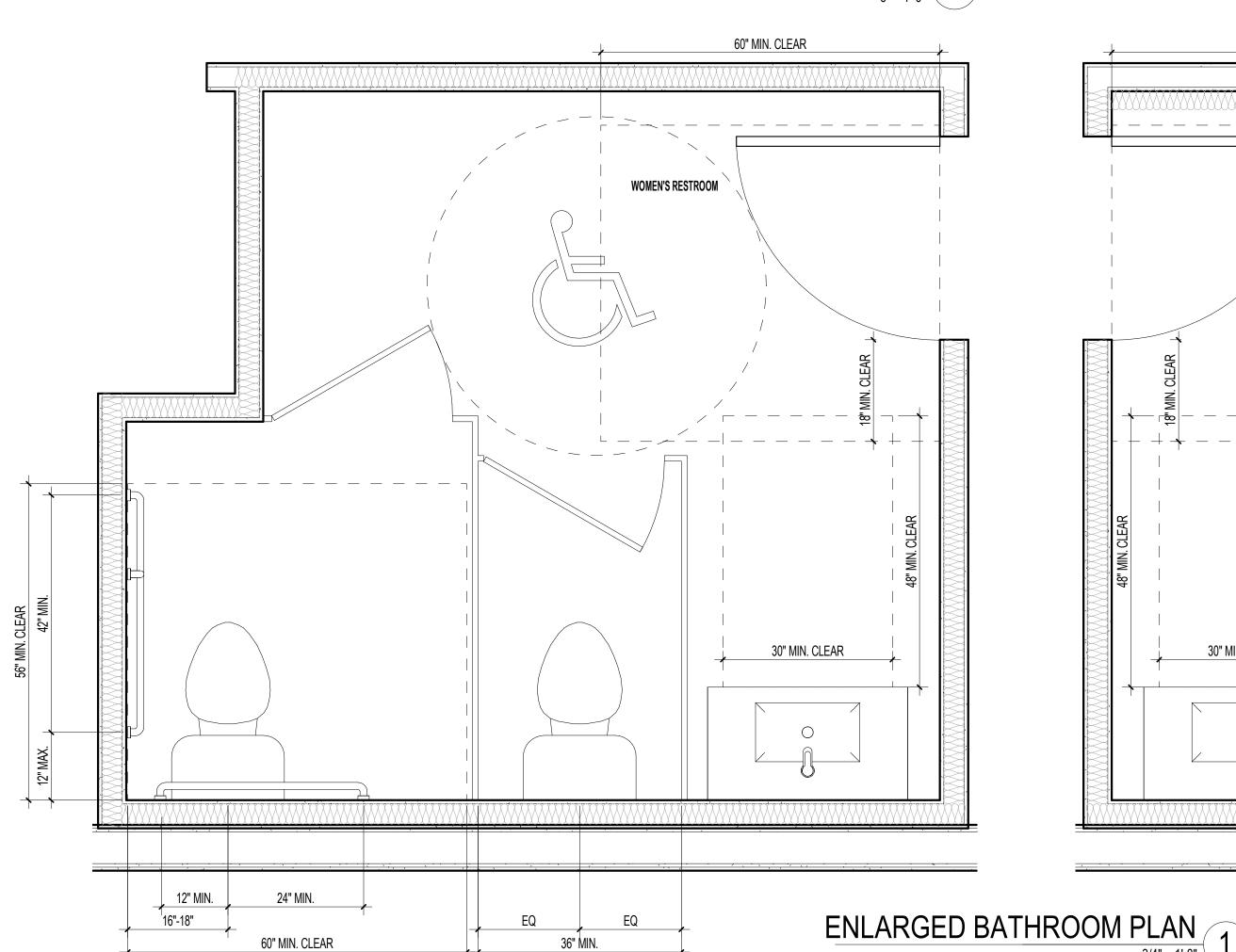
- 2 GRAB BAR (18") GRAB BAR (36") GRAB BAR (42")
- B-2888 3 TOILET PAPER DISPENSER B-165 1836 CHANNEL FRAMED MIRROR (18"X36") 1502
- 1504 1 RESTROOM SIGN - WOMEN - ADA BLUE 0 RESTROOM SIGN - UNISEX - ADA BLUE
- RESTROOM SIGN MEN ADA BLUE

HANDICAP SIGNS:

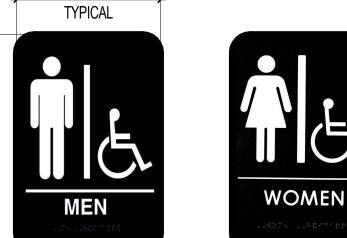
CONTRACTOR TO INSTALL A.D.A. COMPLIANT IDENTIFICATION SIGNS OUTSIDE OF ALL RESTROOMS - SIGNS TO BE A MINIMUM OF 6" X 9" SURFACE MOUNTED TACTILE WITH BRAILLE IN CONTRASTING COLORS AND FABRICATED FROM 1/16" ACRYLIC PLASTIC, WITH 1/32" TACTILE SYMBOLS, GRADE 2 BRAILLE AND MATTE FINISH (BY COMPLIANCESIGNS.COM, CHADWICK, IL - PHONE: 800-578-1245 - OR APPROVED EQUAL). MOUNTING HEIGHT AND LOCATIONS AS PER CODE. SIGNS TO BE IN FULL COMPLIANCE WITH ALL APPLICABLE SECTIONS, REQUIREMENTS AND AMENDMENTS OF THE ICC/ANSI A117.1-2015 (ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES) AND SECTION 703 OF THE INTERNATIONAL BUILDING CODE.

WALL FINISH AS SCHEDULED BACKER BOARD AS SCHEDULED (2) 1/4" X 3-1/2" LAG SCREWS 2-1/2" MIN. PENETRATION INTO CHANNEL 1-1/2" DIA. GRAB BAR CAPABLE OF SUPPORTING A MIN. 250 LB. LOAD





STEEL CHANNEL

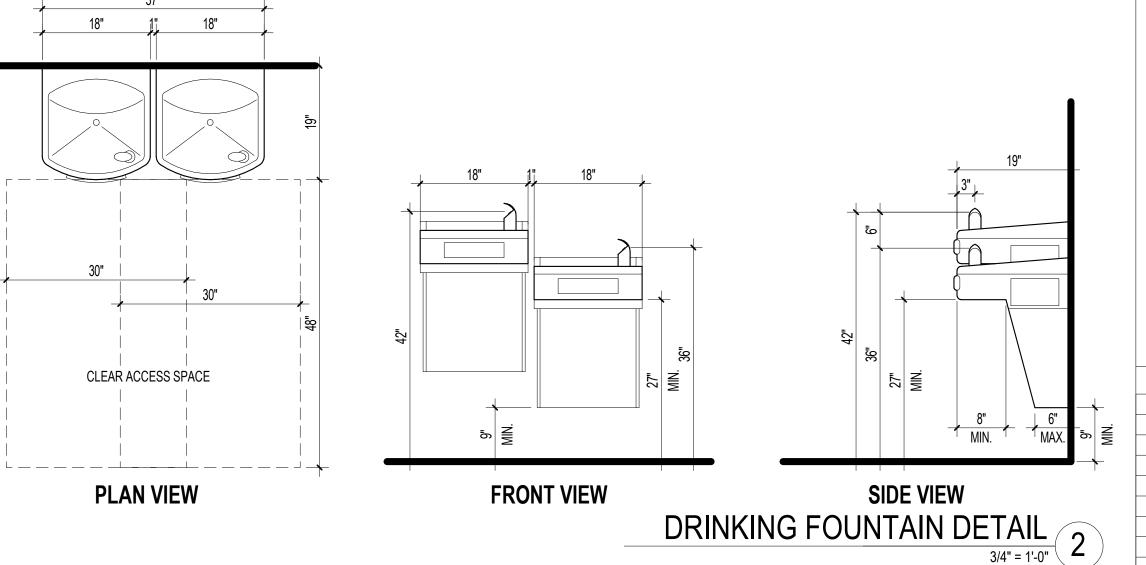


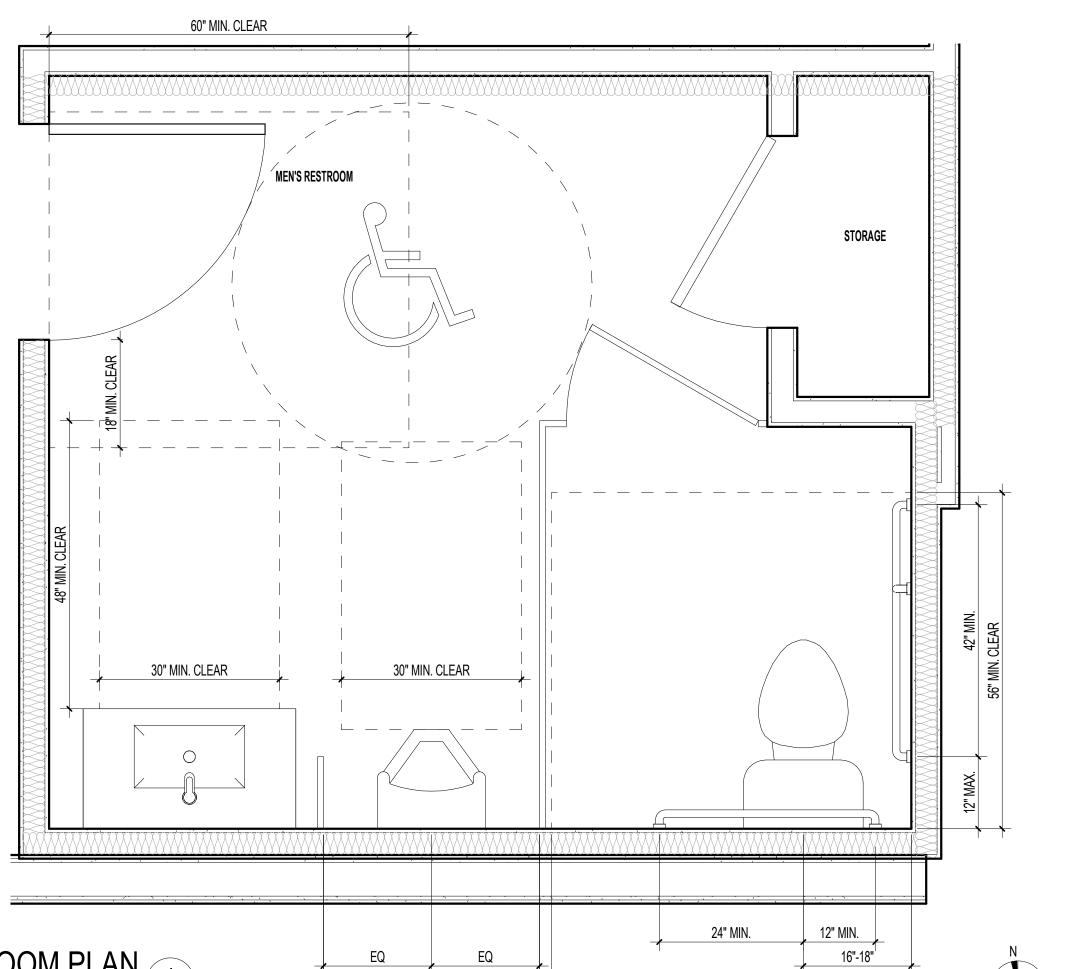






HANDICAP RESTROOM SIGNS
3" = 1'-0"
3





60" MIN. CLEAR

36" MIN.

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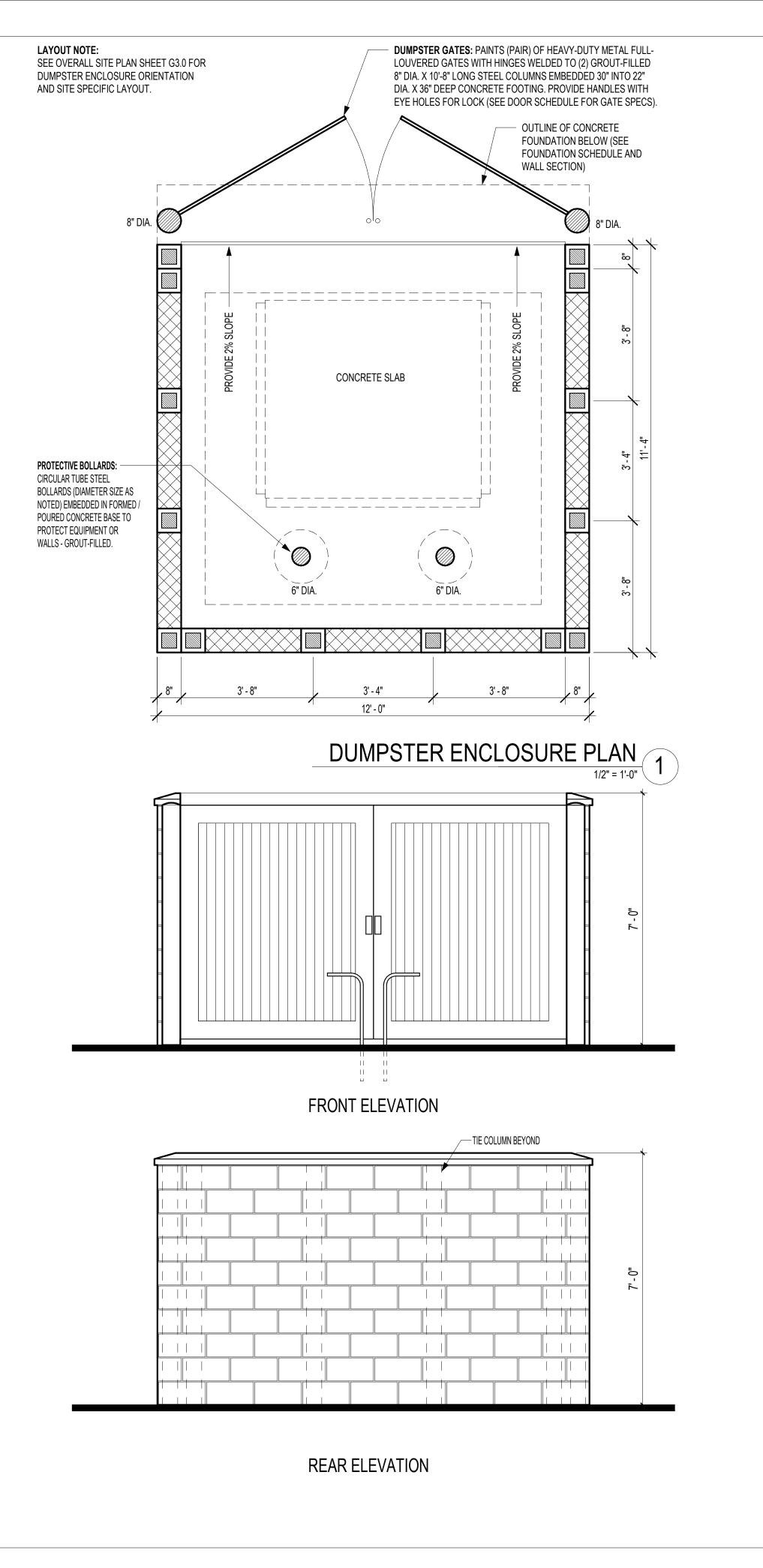
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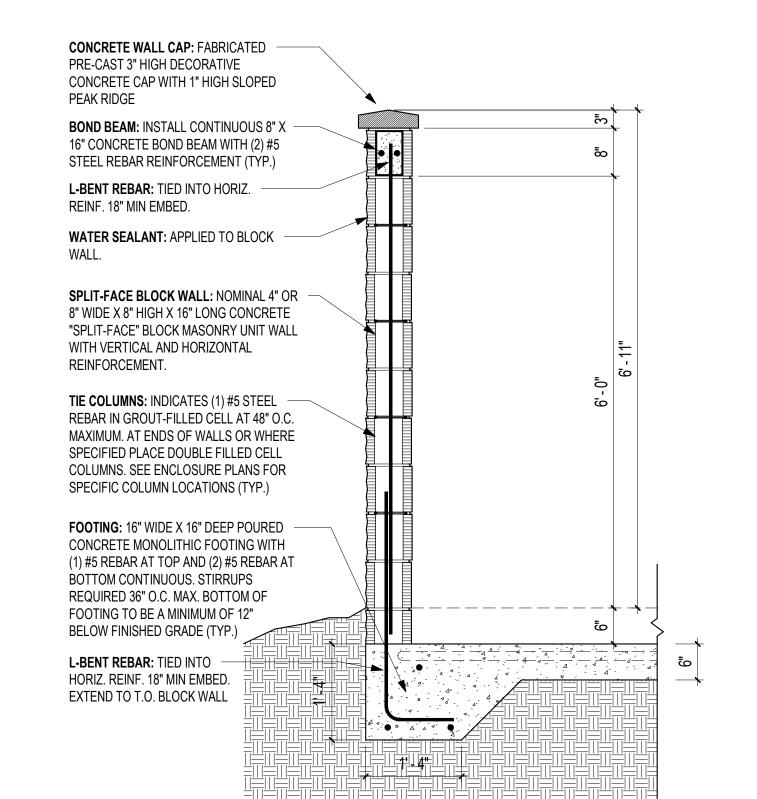
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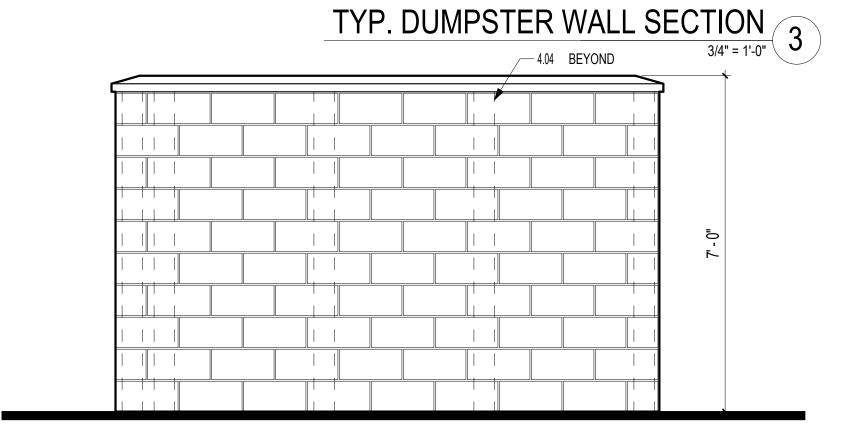
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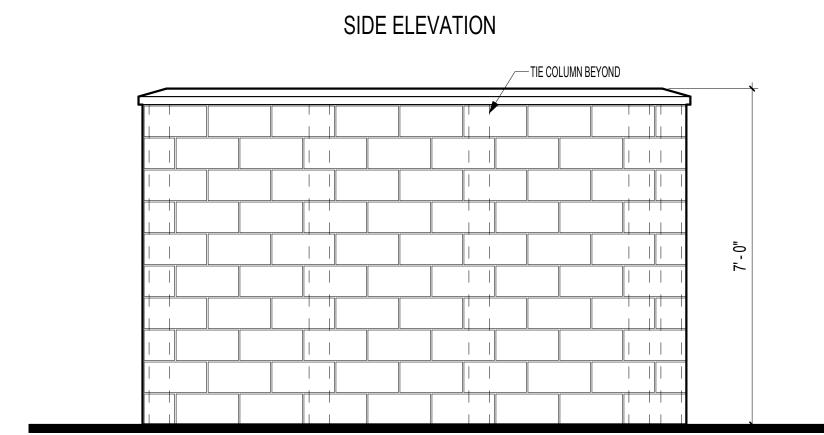
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ACCESSIBLE RESTROOM **PLANS**









SIDE ELEVATION DUMPSTER ENCLOSURE ELEVATIONS

1/2" = 1'-0"

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Α	90% CONSTRUCTION DOCUMENTS	02/02/202
В	CONSTRUCTION DOCUMENTS FOR BIDDING	02/16/202

FEBRUARY 16TH, 2024 CONSTRUCTION DOCUMENTS FOR BIDDING

NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION

As indicated DRAWN BY: DUNCAN ARCHITECTS
DATE: 16 FEBRUARY 2024

DUMPSTER ENLOSURE PLAN, ELEVATIONS, SECTIONS

EXTERIOR FINISH GENERAL NOTES

ADHERED STONE

- 1. FABRICATED CULTURED STONE DECORATIVE VENEER OR CAST BLOCKS OVER MASONRY OR OVER WOOD SHEATHING (WITH APPROVED UNDERLAYMENT). ATTACH TO STRUCTURAL WALLS. INSTALL AS PER MANUFACTURER'S SPEC'S (SELECTION BY OWNER).
- ADHERED MASONRY VENEER SHALL COMPLY WITH THE APPLICABLE
- REQUIREMENTS OF SECTIONS 12.1 AND 12.3 OF TMS 402. WITH COLD-FORMED STEEL STUD BACKING, A 2-INCH BY 2-INCH (51 BY 51 MM) 0.0625-INCH (1.59 MM) ZINC-COATED OR NONMETALLIC COATED WIRE MESH WITH TWO LAYERS OF WATER-RESISTIVE BARRIER IN ACCORDANCE WITH 2018 IBC SECTION 1403.2 SHALL BE APPLIED DIRECTLY TO STEEL STUDS SPACED A NOT MORE THAN 16 INCHES (406 MM) ON CENTER.
- THE MESH SHALL BE ATTACHED WITH CORROSION-RESISTANT #8 SELF-DRILLING, TAPPING SCREWS AT 4 INCHES (102 MM) ON CENTER, AND AT 8

INCHES (203 MM) ON CENTER INTO TOP AND BOTTOM TRACKS OR WITH

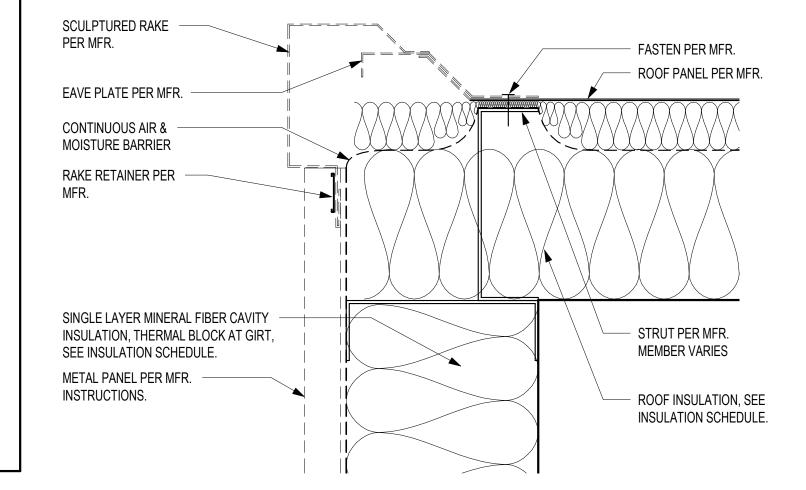
- EQUIVALENT WIRE TIES. SCREWS SHALL EXTEND THROUGH THE STEEL CONNECTION NOT FEWER THAN THREE EXPOSED THREADS.
- THERE SHALL BE NOT LESS THAN A 0.1055-INCH (2.68 MM) CORROSION-RESISTANT WIRE, OR APPROVED EQUAL, ATTACHED TO THE STUD WITH NOT SMALLER THAN A #8 SELF-DRILLING, TAPPING SCREW EXTENDING THROUGH THE STEEL FRAMING NOT FEWER THAN THREE EXPOSED THREADS FOR EVERY 2 SQUARE FEET (0.2 M2) OF STONE VENEER. THIS TIE SHALL BE A LOOP HAVING LEGS NOT LESS THAN 15 INCHES (381 MM) IN LENGTH, SO BENT THAT THE TIE WILL LIE IN THE STONE VENEER MORTAR JOINT. THE LAST 2 INCHES (51 MM) OF EACH WIRE LEG SHALL HAVE A RIGHT-ANGLE BEND. ONE-INCH (25 MM) MINIMUM THICKNESS OF CEMENT GROUT SHALL BE PLACED BETWEEN THE BACKING AND THE STONE VENEER.

- 7. THE COLD-FORMED STEEL FRAMING MEMBERS SHALL HAVE A MINIMUM
- BARE STEEL THICKNESS OF 0.0428 INCHES (1.087 MM). 8. PROVIDE WEEP SCREED AT BASE OF ALL EXTERIOR WALLS OR AS REQUIRED BY STONE MANUFACTURER. SCREED TO DIRECT

MOISTURE/CONDENSATION OUT OF CAVITY AND AWAY FROM BUILDING

METAL PANEL

- 1. WEEP SCREED: PROVIDE WEEP SCREED AT BASE OF ALL EXTERIOR WALLS OR AS REQUIRED BY METAL MANUFACTURER. SCREED TO DIRECT MOISTURE/CONDENSATION OUT OF CAVITY AND AWAY FROM BUILDING
- 2. BATT: INSTALL APPROVED CONTINUOUS BATT INSULATION (R-25 MINIMUM BETWEEN METAL STUDS, (SEE PROJECT ENERGY CALCULATIONS BY MECHANICAL ENGINEER FOR REQUIREMENTS AND SPECIFICATIONS).
- 3. WINDOWS: COMMERCIAL-GRADE FIXED-GLASS ALUMINUM WINDOWS (TO MATCH STOREFRONT COLOR AND FINISH APPEARANCE).
- 4. STOREFRONT: ANODIZED ALUMINUM STOREFRONT GLAZING SYSTEM WITH CLEAR GLAZING - SHIM STOREFRONT FRAME AS REQUIRED AND PROVIDE CONTINUOUS 3/4" BEAD COLORED SEALANT/CAULKING WITH BACKER ROD -TYPICAL AT ALL STOREFRONT WINDOWS AND DOORS (SEE DOOR AND WINDOW SCHEDULES FOR COMPLETE DESCRIPTION).
- . SILL FLASHING: STOREFRONT SILL FLASHING WITH CONTINUOUS SEALANT PROVIDE ADDITIONAL METAL FLASHING OVER ENTIRE SILL OF ALL WINDOWS.
- 6. DRIP: CONTINUOUS FABRICATED 26 GAUGE METAL DRIP-EDGE FLASHING ABOVE ALL WINDOW AND DOOR OPENINGS.
- 7. WALL WATER-PROOFING: INSTALL SELF-SEALING WATER-PROOFING MEMBRANE SHEETS OVER EXTERIOR OF METAL FRAMING.



SECTION DETAIL - PARAPET @ M-01

METAL PANEL, PER MFR.

FLEXIBLE AIR & MOISTURE

J MOLD TO MATCH METAL SIDING

SHIM AS REQ'D.

CONTINUOUS SEALANT

CUSTOM BREAK-METAL

SILL PAN COLORED TO

MATCH MULLION

ASPHALTIC -CONCRETE, S.C.D.

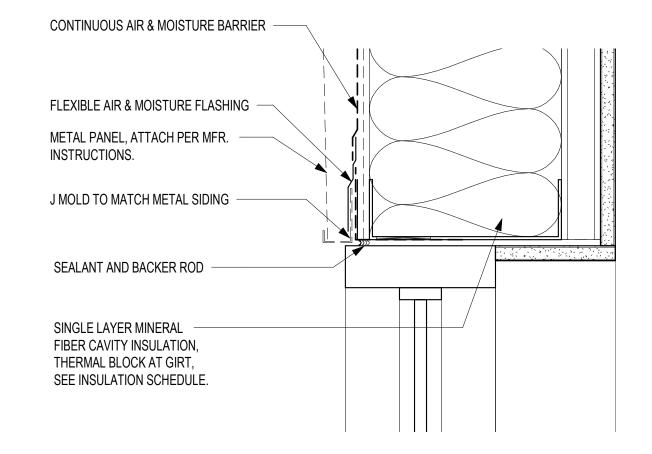
AND BACKER ROD

SEALANT AND BACKER ROD

INSTRUCTIONS.

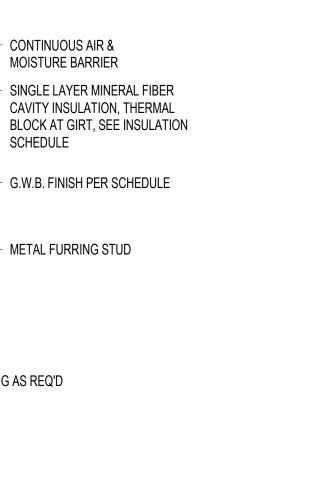
FLASHING

DRIP EDGE





SECTION DETAIL - TYP. WINDOW HEADER



T.O.S. INTERIOR 0' - 0"

GRADE -0' - 6"

CONCRETE SLAB, FOOTING, AND

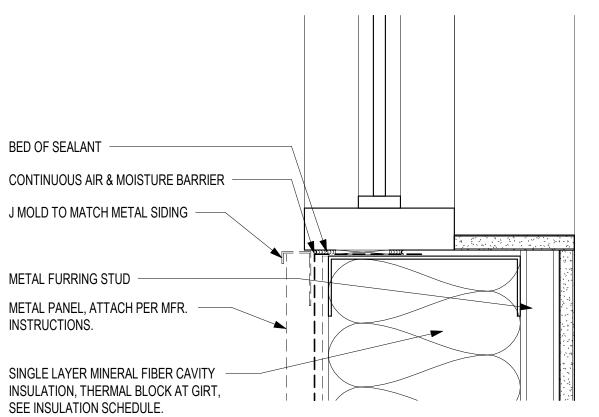
REINFORCEMENT

SCHEDULE

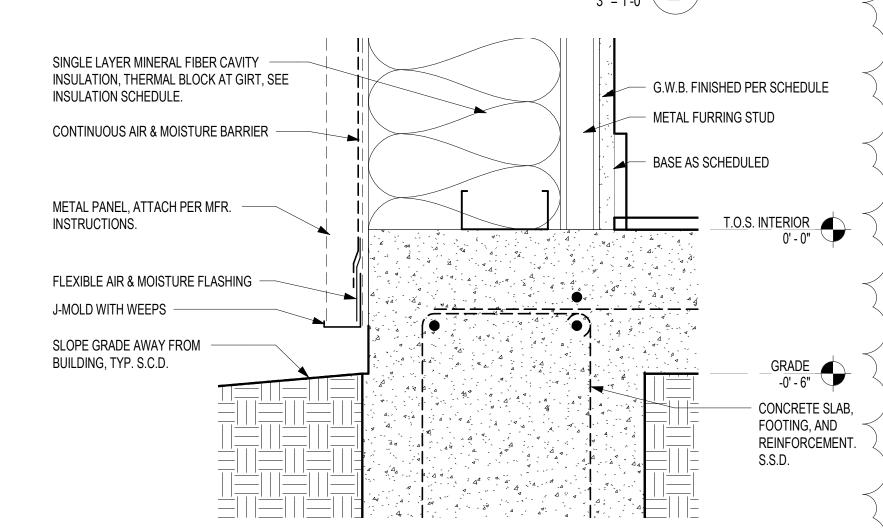
BLOCKING AS REQ'D

CONTINUOUS SEALANT

AND BACKER ROD



SECTION DETAIL - TYP. WINDOW SILL 3" = 1'-0" 2



SECTION DETAIL - WALL BASE @ M-01

DUNCAN ARCHITECTS

TRDI OFFICE AND **WAREHOUSE** 941 W. SHARM DR.

PHARR, TX 78577 **ARCHITECT** DUNCAN ARCHITECTS LLC

<u>OWNER</u> 425 SOLEDAD, SUITE 800 SAN ANTONIO, TX 78205 210-572-0402

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4900 TEXAN ROAD

MISSION, TX 78574

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804 PECAN BLVD, SUITE 113

McALLEN, TX 78501

LANDSCAPE ARCHITECT HEFFNER DESIGN TEAM 4100 N. 22ND STREET McALLEN, TX 78504

STRUCTURAL ENGINEER ATLAS ENGINEERING CONSULTANTS, LLC 500 SOUTH 11TH STREET McALLEN, TX 78501

EDINBURG, TX 78540

P.E.M.B. SUPPLIER & E.O.R.

REV.	DESCRIPTION	DATE
В	CONSTRUCTION DOCUMENTS FOR BIDDING	02/16/2022
С	BIDDING REVISION 1	02/28/2024

FEBRUARY 16TH, 2024 CONSTRUCTION DOCUMENTS FOR BIDDING

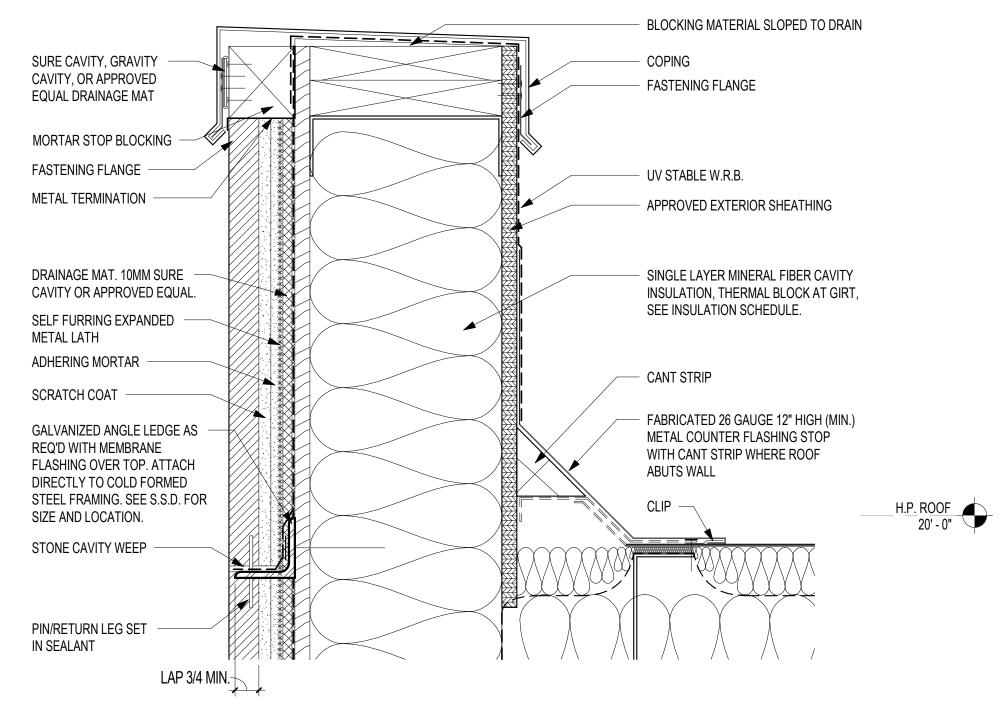
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As indicated

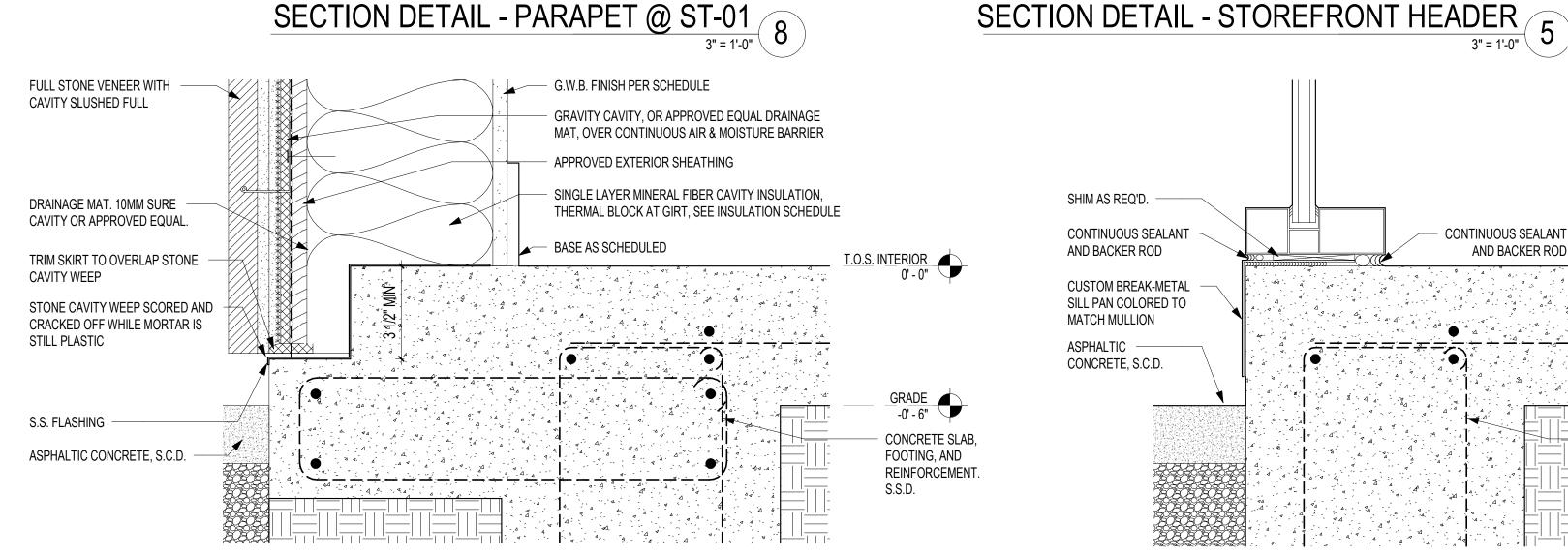
DUNCAN ARCHITECTS 16 FEBRUARY 2024

EXTERIOR DETAILS

A5.0

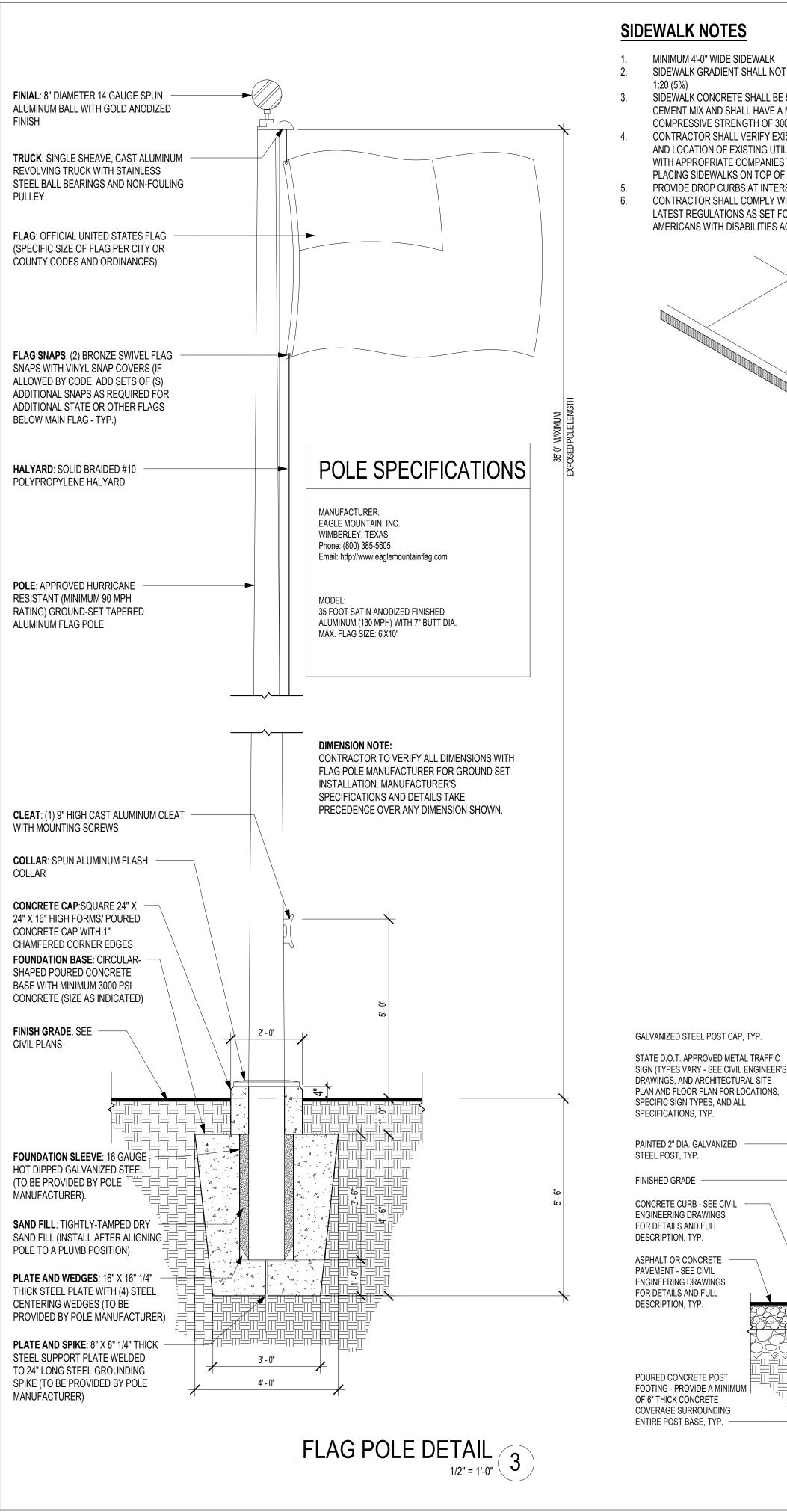


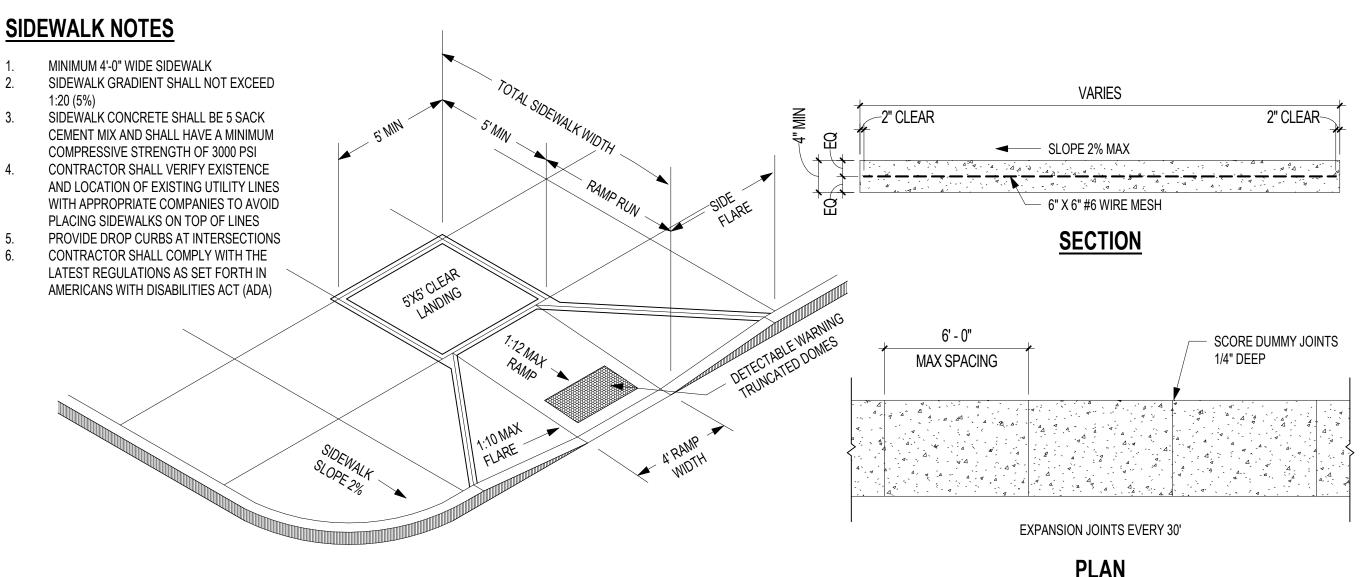
SECTION DETAIL - PARAPET @ ST-01 3" = 1'-0" 8



SECTION DETAIL - WALL BASE @ ST-01 7

SECTION DETAIL - STOREFRONT BASE





PERPENDICULAR CURB RAMP

PLAN

SIDEWALK DETAILS /7

NOTE: CONTRACTOR TO VERIFY THAT ALL BOLLARDS ARE

APPEARANCE - BOLLARD HEIGHTS ABOVE SLAB OR ROADWAY

FOR REMOVABLE BOLLARDS, PROVIDE A FLUSH METAL COVER

VARY - PLANS INDICATE HEIGHTS OF EACH BOLLARD, TYP.

INSTALLED STRAIGHT VERTICALLY AND CONSISTENT IN

FOR OPENINGS IN PAVEMENT, TYP.

BICYCLE RACK SPECIFICATIONS: NAME: WAVE STYLE BIKE RACK (IN-GROUND) MODEL: BRC-1002 / 3-LOOP (5 BIKES). 2-3/8" STEEL PIPE COLOR: SELECTION BY OWNER (POWDER COAT FINSIH) ACCESSORIES: (2) GROUT COVER PLATES

TELEPHONE: 800-689-9078 PROVIDE TWO (2) 10" DIAMETER X MINIMUM 10" HIGH POURED CONCRETE PAD FOORINGS WHEN BELOW CONCRETE SLABS, OR TWO (2) 14" DIAMETER X MINIMUM 14" HIGH WHEN BELOW CONCRETE PAVERS. INSURE EACH BIKE RACK LEG IS CENTERED ON FOOTINGS AND EBEDDED A MINIMUM OF 6" (TYP.) INSTALL (1) 3/8" DIA. ANCHOR ROD THRU

INSTALL BIKE RACK AS PER MANUFACTURER'S SPECIFICATIONS.

- 2. CONTRACTOR TO VERIFY THAT THE BIKE RACK IS INSTALLED PLUMB AND CONSISTENT IN HEIGHT AND APPEARANCE ON BOTH ENDS.
- 3. PROTECT BIKE RACK'S FINISH DURING INSTALLATION.
- 4. SEE SITE PLAN FOR EXACT BIKE RACK LOCATIONS.

BIKE RACK DETAIL 6



FACTORY DRILLED HOLE

TO SECURE LEG TO

FOOTING (TYP.)

WHERE SPECIFIED, INSTALL 4" DIA. 1/4" THICK REMOVABLE STEEL BOLLARD WITH 18" LONG X 3" DIA. BASE TO

INSERT INTO 4" TUBE STEEL SLEEVE

HEAVY-DUTY MANUFACTURED P.V.C.

VERIFY SIZE TO INSURE SNUG FIT -

BY OWNER, TYP.

SLEEVE COVER WITH HALF-ROUND TOP -

SELECTED COLOR OF P.V.C. COVER TO BE

SOLID - COLOR SELECTION AND/OR STYLE

INSTALL 4" OR 6" DIA. 1/4" THICK STEEL

TUBE BOLLARDS - WHERE SPECIFIED, FILL

ENTIRE LENGTH OF BOLLARD WITH GROUT,

18" DIA. X 24" HIGH POURED CONCRETE

CENTERED ON BASE AND EMBEDDED A

FULL 22" - NOTE: BASE FOOTING OF DUMPSTER BOLLARDS ARE LARGER IN SIZE - SEE DUMPSTER PLANS, TYP.

BASE FOOTING - ENSURE EACH BOLLARD IS

EMBEDDED INTO CONC. (TYP.)

DATE 02/02/2024 90% CONSTRUCTION DOCUMENTS CONSTRUCTION DOCUMENTS FOR BIDDING 02/16/2022

DESCRIPTION

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ARCHITECTS

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PHARR, TX 78577

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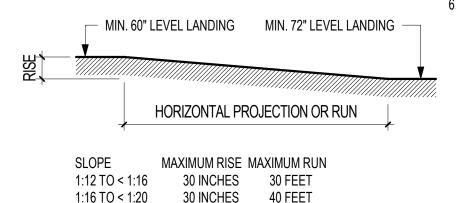
SAN ANTONIO, TX 78205

RAMP NOTES

DISTANCE AS

PER CODE

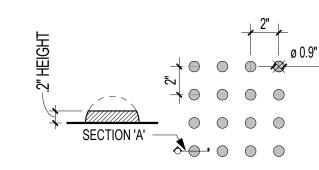
- 1. ALL CURB RAMPS SHALL BE IN FULL COMPLIANCE WITH ICC/ANSI A117.1-2015 (ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES) AND CHAPTER 11 (ACCESSIBILITY) OF THE 2018 INTERNATIONAL BUILDING CODE, AS WELL AS, ALL APPLICABLE FEDERAL, STATE, AND LOCAL ORDINANCES AND REGULATIONS.
- 2. CURB RAMPS SHALL BE NOT LESS THAN 36" IN WIDTH MAXIMUM SLOPE OF RAMPS SHALL BE 1 TO 12, WITH A MAXIMUM OF ANY RUN NOT TO EXCEED 30'.
- 3. IS SPECIFIED BY CODE, ALL EXTERIOR RAMPS OR OTHER WALKWAY RAMPS WITHIN THE PROJECT SITE ARE TO HAVE TRUNCATED DETECTABLE WARNING MATS. DETECTABLE WARNING MAT SIZE AND INSTALLATION AS PER CODE.



COMPONENTS OF A SINGLE RAMP RUN

4. ALL DETECTABLE WARNINGS ON WALKING SURFACES SHALL BE GOVERNED BY REQUIREMENTS OF ICC/ANSI A117.1-2015 (ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES) AND CHAPTER 11 (ACCESSIBILITY) OF THE 2018 INTERNATIONAL BUILDING CODE TEXTURES SHALL CONTRAST WITH THAT OF THE SURROUNDING WALKWAY SURFACE, AND BE OF FABRICATED PLASTIC CONSTRUCTION WITH INTEGRAL TRUNCATED SURFACES

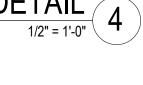
- 5. RECOMMENDED PRODUCT TO UTILIZE IS THE CASE-IN-PLACE DETECTABLE/TACTILE WARNING SURFACE TILE SYSTEM BY "ARMOR-TILE", MANUFACTURED BY "ENGINEERED PLASTICS, INC", NEW YORK, TEL: 800-682-2525, OR APPROVED EQUAL. INSTALL TILES AS PER MANUFACTURERS SPECIFICATIONS.
- 6. ALL TRUNCATED DETECTABLE WARNING MATS ARE TO BE "FEDERAL YELLOW" IN COLOR. AND BE CONSISTENT IN APPEARANCE AND DESIGN.

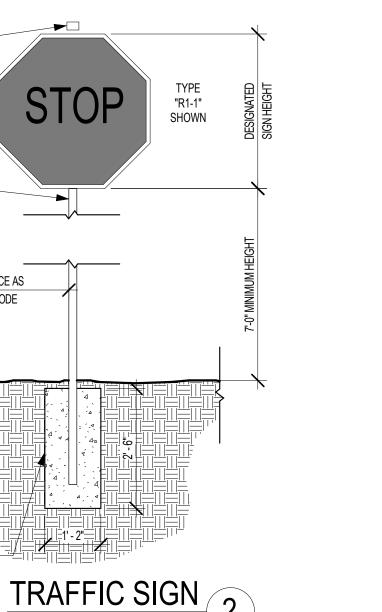


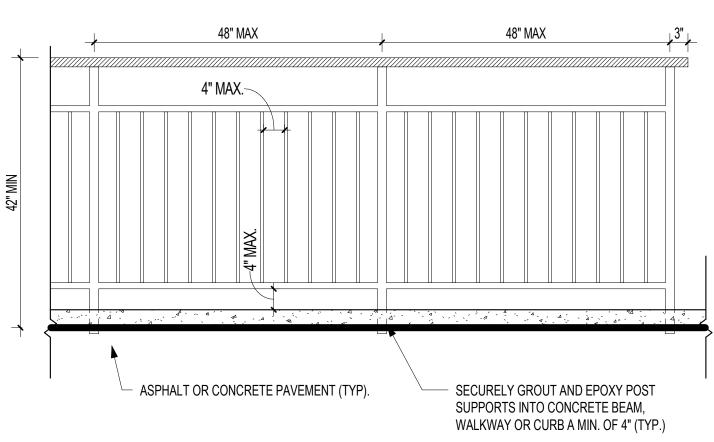
DETECTABLE WARNING TRUNCATED DOMES

HANDICAP ACCESSIBLE RAMP 1 1/2" = 1'-0" 5

PROTECTIVE BOLLARD DETAIL 1/2" = 1'-0" 4

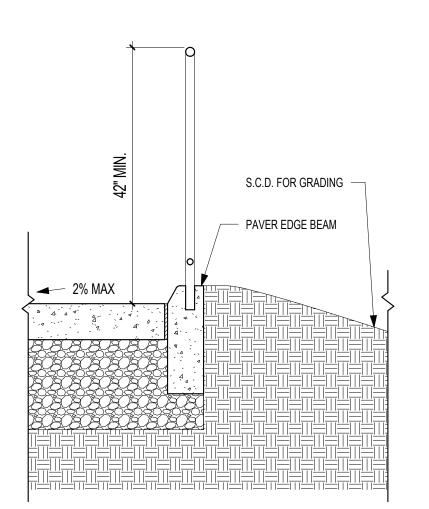






DESIGN AND FABRICATION NOTE: DESIGN OF SAFETY RAILING BY OTHERS. VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO FINAL DESIGN AND COMMENCEMENT OF MANUFACTURING. DESIGN ON FLOOR PLAN AND DETAILS AS SHOWN ARE ONLY TO CLARIFY BASIC DESIGN AND LAYOUT - SEE MANUFACTURERS SHOW DRAWINGS FOR COMPLETE DESIGN.

FRONT ELEVATION VIEW



SECTION VIEW

SAFETY RAILING DETAIL

FEBRUARY 16TH, 2024 CONSTRUCTION DOCUMENTS FOR BIDDING

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SCALE As indicated DRAWN BY: DUNCAN ARCHITECTS 16 FEBRUARY 2024

SITE DETAILS

A5.1

DOOR AND WINDOW NOTES

- CODE COMPLIANCE: FABRICATION AND INSTALLATION OF ALL NEW DOORS, WINDOWS, AND STOREFRONT TO BE IN FULL COMPLIANCE WITH ALL APPLICABLE SECTIONS OF THE 2018 INTERNATIONAL BUILDING CODE WILL ALL UPDATES AND AMENDMENTS.
- SHOP DRAWINGS: GENERAL CONTRACTOR SHALL PROVIDE COMPLETE SHOP DRAWINGS OF ALL GLAZING, FENESTRATION, ALUMINUM VENTS, ETC. FOR ARCHITECT AND ENGINEER OF RECORD'S REVIEW AS REQUIRED, AND (3) COPIES FOR SUBMITTAL WITH FINAL SEALED DRAWINGS TO BUILDING DEPARTMENT.
- TEST REPORTS: CONTRACTOR SHALL SUBMIT TEST REPORTS (IF REQUIRED DUE TO EXCESSIVE WIND LOADS) AND PROVIDE DRAWINGS OF ALL NEW EXTERIOR DOORS, WINDOWS, AND STOREFRONT WITH FULLY-ENGINEERED SHOP DRAWINGS AND ATTACHMENT DETAILS PRIOR TO COMMENCEMENT OF FABRICATION. FINAL SHOP DRAWINGS TO BE SIGNED AND SEALED BY A LOCAL REGISTERED ENGINEER.
- **ROUGH OPENINGS:** GENERAL CONTRACTOR SHALL VERIFY ALL REQUIRED ROUGH OPENING SIZES WITH THE SELECTED DOOR MANUFACTURER(S) AND WINDOW MANUFACTURER(S) PRIOR TO START OF CONSTRUCTION, AND ADJUST ALL ROUGH OPENINGS AS INDICATED ON THE CONSTRUCTION DOCUMENTS AS REQUIRED.
- WINDOWS: ALL NEW WINDOWS AND STOREFRONTS TO BE CONSTRUCTED OF HEAVY-DUTY GAUGE COMMERCIAL GRADE ALUMINUM WITH FACTORY POWDER-COAT PAINT FINISH (COLOR AS PER THE WINDOW SCHEDULE), SECURELY ATTACH ALL WINDOWS AND STOREFRONTS TO WALL OPENINGS AS PER MANUFACTURER'S SPECIFICATIONS, IN COLD CLIMATES, OR BY OWNERS REQUEST, ALL GLAZING TO BE INSULATED GLASS. PRIOR TO COMMENCEMENT OF SHOP FABRICATION. ALL WINDOW OPENINGS MUST BE FIELD VERIFIED AND MEASURED BY GLAZING SUBCONTRACTOR AND ACCEPTED BY GENERAL CONTRACTOR.
- DOORS: ALL EXTERIOR DOORS SHALL BE CONSTRUCTED OF MINIMUM 18 GAUGE GALVANIZED COMMERCIAL GRADE STEEL WITH HEAVY-DUTY HOLLOW METAL CONSTRUCTION AND HONEYCOMB INFILL CORE INSULATION. INTERIOR DOOR CONSTRUCTION AND SPECIFICATIONS AS NOTE IN DOOR SCHEDULE.
- . **FRAMES**: HOLLOW STEEL DOOR FRAMES SHALL BE HEAVY-DUTY 16 GAUGE GALVANIZED COMMERCIAL GRADE STEEL WITH MITERED, WELDED CORNERS ROUNDED TO A SMOOTH, UNIFORM FINISH. WALL ANCHORS APPROPRIATE TO FLOOR AND WALL CONSTRUCTION SHALL BE PROVIDED ON EACH JAMB. ALL FRAMES SHALL BE PREPARED, REINFORCED, DRILLED, AND TAPPED TO RECEIVE SPECIFIED MORTISED IRONMONGERY

- 8. FIRE DOORS: ALL FIRE-RATED DOORS SHALL BE "UL" (UNDERWRITER) LABORATORIES) LABEL CERTIFIED AND CONSTRUCTED OF 18 GAUGE GALVANIZED COMMERCIAL GRADE STEEL WITH HEAVY-DUTY HOLLOW METAL CONSTRUCTION AND HONEYCOMB INFILL CORE INSULATION DOOR GLAZING (WHERE APPLICABLE) SHALL BE OF WIRED GLASS AND SIZED AS PER CODE.
- 9. LOUVER DOORS: ALL LOUVERED DOORS SHALL BE CONSTRUCTED OF 18 GAUGE GALVANIZED COMMERCIAL GRADE STEEL WITH HEAVY-DUTY HOLLOW METAL CONSTRUCTION. LOUVERS TO BE OF IMPACT-RESISTANT GALVANIZED STEEL CONSTRUCTION WELDED TO DOOR. LOUVER BLADES SHALL OVERLAP OBSTRUCTING VISION BUT ALLOWING VENTILATION. INSTALL AN INSECT MESH SCREEN ON THE INSIDE FACE OF LOUVERS.
- 10. THRESHOLDS: ALL DOOR THRESHOLDS SHALL BE FABRICATED OF WATER-RESISTANT ALUMINUM WITH A MAXIMUM HEIGHT OF 1/2" (1.27CM) AND MINIMUM 4" (10CM) DEPTH (AS PER ADA HANDICAP REQUIREMENTS) ABOVE FINISH FLOOR.
- 11. HARDWARE: EACH DOOR AND FRAME SHALL BE BLANKED, REINFORCED, DRILLED, AND TAPPED READY TO RECEIVE MORTISED, TEMPLATED COMMERCIAL-GRADE HARDWARE. ALL HARDWARE SUPPLIED BY GENERAL CONTRACTOR. ALL SELECTION BY OWNER (UNLESS STATED OTHERWISE).
- 12. HANDICAP COMPLIANCE: ALL REQUIRED HANDICAP EQUIPMENT AND INSTALLATION ON DOORS AND WINDOWS SHALL BE IN FULL COMPLIANCE WILL ALL ADA AND IBC CODE REQUIREMENTS, AND LOCAL ORDNANCES.
- 13. SAFETY GLAZING: ALL STOREFRONT AND ANY DOORS WITH GLASS PANELS SHALL HAVE CATEGORY II SAFETY GLAZING AS PER SECTION 2406 OF THE IBC
- 14. GLAZING SEALANT: THE ENTIRE GLAZING SYSTEM AND ANY STOREFRONT DOORS SHALL BE WET SEALED WITH COLOR COORDINATED SEALANT, FINGER WIPED, AND CLEANED TO A WORKMAN AND INDUSTRY CLASS 1 STANDARD. COLOR SELECTION OF SEALANT BY ARCHITECT.
- 15. **SKYLIGHTS:** IF REQUIRED BY WIND LOADS, ALL SKYLIGHTS ON ROOF SHALL BE WIND LOAD APPROVED "IMPACT RESISTANT", AND ADHERE TO ALL REQUIREMENTS OF SECTION 2405 OF THE IBC.
- 16. EGRESS: ALL DOORS AND GATES TO FULLY COMPLY WITH ALL MEANS OF EGRESS REQUIREMENTS IN SECTION 1003.3 OF THE IBC.

			WINDOW SCHEDUI	LE			
				HEAD	SILL		WINDOW
MARK	WIDTH	HEIGHT	DESCRIPTION	HEIGHT	TYPE	FINISH	REMARKS
Α	3' - 0"	6' - 0"	COMMERICAL-GRADE FIXED-GLASS ALUMINUM WINDOWS	9' - 0"		TO MATCH STOREFRONT	J
В	3' - 0"	4' - 0"	COMMERCIAL-GRADE PASS-THRU ALUMINUM WINDOW WITH TEMPERED GLASS	7' - 0"		BLACK	Т

DOOR / WINDOW REMARKS

- HANDICAP ACCESSIBLE DOOR: DOOR AND INSTALLATION TO BE IN FULL COMPLIANCE WILL ALL APPLICABLE SECTIONS, REQUIREMENTS, AND AMENDMENTS OF THE ICC/ANSI A117.1-2003 (ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES), AND CHAPTER 11 (ACCESSIBILITY) OF THE 2018 INTERNATIONAL BUILDING CODE, AND ALL OTHER LOCAL ORDINANCES AND REGULATIONS.
- B LOADING DOOR: COMMERCIAL-GRADE ALUMINUM OVERHEAD COILING M HANDLE/LOCK SET 2: A.D.A. APPROVED LEVER-TYPE LOCK SET WITH DOOR. MAKE/ MODEL BY OWNER.
- C LOUVER VENTS: PROVIDE HEAVY-DUTY SECURITY-TYPE HORIZONTAL METAL LOUVERS WITH INTERIOR METAL BUG SCREEN FOR VENTILATION IN DOOR OR WINDOW PANELS.
- D THRESHOLDS: INSTALL A.D.A. APPROVED HANDICAP-ACCESSIBLE RAISED ALUMINUM, GRANITE, OR MARBLE THRESHOLD AT DOOR OPENING SECURED TO SLAB (1/2" IN MAX HEIGHT). MAKE/ MODEL BY OWNER. COORDINATE WITH FINISH FLOOR THICKNESS.
- KICK PLATE: PROVIDE 12" HIGH X 34" WIDE MANUFACTURED STAINLESS STEEL KICK PLATE ON INTERIOR FACE OF DOOR. MAKE/ MODEL BY OWNER.
- PEEPHOLE: INSTALL 1-1/2" DIA. SECURITY VIEWER IN CENTER OF DOOR AT 5'-4" ABOVE FINISHED FLOOR, MAKE/ MODEL BY OWNER.'
- G LOUVERED TRANSOM: INSTALL HORIZONTAL METAL LOUVERS WITH INTERIOR METAL BUG SCREEN TRANSOM ABOVE DOOR. SEE ELEVATIONS.
- H DOOR CLOSER: INSTALL A.D.A. APPROVED COMMERCIAL-GRADE ADJUSTABLE DOOR CLOSER, MAKE/ MODEL BY OWNER, FINISH: BRUSHED ALUMINUM.
- PVC DOOR: WATER-PROOF FLUSH PLASTIC 1-3/4" THICK DOOR CONSTRUCTED OF PVC PANELS WITH PVC FRAME AND WEATHER STRIP SEALED EDGE.
- **GLASS**: U-VALUE AND SHGC SHALL MEET OR EXCEED: U-VALUE=.83 MAX. SHGC=.25 MAX. WINDOWS: U-VALUE=.50 MAX. SHGC=.25 MAX.

- K HANDLES / DEADBOLTS: PROVIDE ROUNDED-STYLE STOREFRONT-TYPE PULL HANDLES ON EXTERIOR FACE WITH KEYED DEADBOLT AND PUSH BAR ON INTERIOR FACE. MAKE/MODEL PER OWNER.
- HANDLE/ LOCK SET 1: LEVER-TYPE LOCK SET WITH KEYED DEADBOLT. MAKE/MODEL PER OWNER.
- LEVER-TYPE INTERIOR LOCK. MAKE/MODEL PER OWNER.
- HANDLE/ LOCK SET 3: PROVIDE 12 INCH STAINLESS STEEL DOOR HANDLE PULL AND PUSH PLATE
- O DOOR FLUSH BOLTS: SURFACE FLUSH BOLTS INTO HEAD AND THRESHOLD OF DOOR FRAME WITHIN 1" EMBED. MAKE/MODEL PER OWNER.
- P DUMPSTER GATES: CUSTOM FABRICATED HEAVY-DUTY METAL FULL-LOUVERED GATES WITH HINGES WELDED TO STEEL BOLLARDS OR ANGLES EMBEDDED INTO CONCRETE COLUMNS - PROVIDE HEAVY-DUTY METAL HANDLES ON EACH. SEE DUMPSTER ENCLOSURE ELEVATIONS. . MAKE/MODEL PER OWNER.
- Q DROP-RODS: PROVIDE 1-1/2" DIA. 36" LONG STEEL DROP-RODS (WITH LIFT HANDLE) TO SECURE EACH GATE IN THE OPEN AND CLOSED POSITIONS, WITH METAL SLEEVES PLACED INTO ASPHALT PAVING FOR LOCKING RODS IN BOTH POSITIONS. . MAKE/MODEL PER OWNER.
- R LOW-E GLASS: INSTALL COMMERCIAL-GRADE GLASS WITH LOW-E SOLAR TINTING (INSULATED WHERE INDICATED) . MAKE/MODEL PER
- S GLASS TRANSOM: PROVIDE FIXED GLASS STOREFRONT TRANSOM ABOVE EXTERIOR DOOR. SEE ELEVATIONS.
- WINDOW SILL: INSTALL CUSTOM 4" THICK FULL-WINDOW-WIDTH COUNTER - EXTEND 8" BEYOND FACE OF FINISH WALL AND 4" TO EITHER SIDE OF THE WINDOW.
- U FIRE-RATED: 90-MINUTE FIRE-RATED FLUSH STEEL PREHUNG COMMERCIAL DOOR WITH WELDED FRAME

DOOR HARDWARD TWO THREE FOUR FIVE SIX SEVEN

	DOOR SCHEDULE									
MARK	TYPE	WIDTH	HEIGHT	TYPE / MATERIAL	FRAME	FINISH	DOOR HARDWARE	DOOR/WINDOW REMARKS		
01	EXTERIOR	3' - 0"	7' - 0"	STOREFRONT / METAL & GLASS	SILVER ALUM.	SILVER ALUM.	ONE	A,D,H,J,K,M,S		
02	EXTERIOR	3' - 0"	6' - 8"	EXTERIOR	P11	P11	TWO	A,D,H,K,M		
03	EXTERIOR	3' - 0"	6' - 8"	EXTERIOR	P12	P12	TWO	A,D,H,K,M		
04	EXTERIOR	3' - 0"	6' - 8"	EXTERIOR FIRE RATED (90 MIN.)	P9	P9	THREE	A,H,K,M,U		
05	EXTERIOR	3' - 0"	6' - 8"	EXTERIOR FIRE RATED (90 MIN.)	P9	P9	THREE	A,H,K,M,U		
06	OVERHEAD	10' - 0"	14' - 0"	GARAGE DOOR	P12	P12	ONE	В		
10	INTERIOR	3' - 0"	6' - 8"	FLUSH / SOLID CORE WOOD DOOR	P9	P9	FOUR	A,H,L		
11	INTERIOR	3' - 0"	6' - 8"	FLUSH / SOLID CORE WOOD DOOR	P9	P10	SEVEN	A,L		
12	INTERIOR	3' - 0"	6' - 8"	STOREFRONT / METAL & GLASS	BLACK ALUM.	BLACK ALUM.	ONE	A,D,L		
13	INTERIOR	3' - 0"	6' - 8"	FLUSH / SOLID CORE WOOD DOOR	P9	P10	FIVE	A,L		
14	INTERIOR	3' - 0"	6' - 8"	FLUSH / SOLID CORE WOOD DOOR	P9	P10	FIVE	A,L		
15	INTERIOR	3' - 0"	6' - 8"	FLUSH / SOLID CORE WOOD DOOR	P9	P10	FIVE	A,L		
16	INTERIOR	3' - 0"	6' - 8"	FLUSH / SOLID CORE WOOD DOOR	P9	P10	FIVE	A,L		
17	INTERIOR	3' - 0"	6' - 8"	FLUSH / SOLID CORE WOOD DOOR	P9	P10	SIX	A,E,H,N		
18	INTERIOR	3' - 0"	6' - 8"	FLUSH / SOLID CORE WOOD DOOR	P9	P10	SIX	A,E,H,N		
19	INTERIOR	2' - 8"	6' - 8"	FLUSH / SOLID CORE WOOD DOOR	P9	P10	FIVE	L		
20	INTERIOR	3' - 0"	6' - 8"	FLUSH / SOLID CORE WOOD DOOR	P9	P10	FIVE	A,L		
21	INTERIOR	2' - 8"	6' - 8"	FLUSH / SOLID CORE WOOD DOOR	P9	P10	FIVE	L		
22	INTERIOR	2' - 8"	6' - 8"	FLUSH / SOLID CORE WOOD DOOR	P9	P10	FIVE	L		
23	INTERIOR	2' - 8"	6' - 8"	FLUSH / SOLID CORE WOOD DOOR	P9	P10	FIVE	L		

ROOM FINISH KEY

FLOOR TYPES

F1 POLISHED CONCRETE FLOOR: GRIND CONCRETE SMOOTH WITH DIAMOND TOOLING. ONCE GROUND, DENSIFY CONCRETE WITH A CHEMICAL DENSIFIER / HARDENER. POLISH TO SMOOTH FINISH WITH MIN. 800 GRID DIAMOND. FINISH WITH LIQUID APPLIED GUARD / SEALER LS SEALER, HARDENER & DENSIFIER

GUARD / SEALER: LS GUARD AND PROTECTIVE TREATMENT FINISH: GLOSSY

F2 TILE FLOOR TYPE 'A': COMMERCIAL-GRADE CERAMIC TILE 24" X 24"

MAKE/MODEL: PER OWNER COLOR: PER OWNER

SIZE:

F3 TILE FLOOR TYPE 'B': COMMERCIAL-GRADE CERAMIC TILE SIZE: 24" X 24"

MAKE/MODEL: PER OWNER COLOR: PER OWNER

F4 VINYL FLOOR TYPE: COMMERCIAL-GRADE LAY-IN VINYL PER OWNER SIZE:

> MAKE/MODEL: PER OWNER COLOR: PER OWNER

F5 CARPET: COMMERCIAL-GRADE CARPET

PER OWNER MAKE/MODEL: PER OWNER COLOR:

F6 PAINTED OR STAINED CONCRETE: ROLLED-ON COMMERCIAL-GRADE CONCRETE PAINT OR STAIN

> MAKE/MODEL: PER OWNER COLOR: PER OWNER

BASE TYPES

B1 VINYL BASE: COMMERCIAL-GRADE 6" HIGH 1/8" THICK COLOR

INTEGRATED VINYL WALL BASE COVE-TOE MAKE/MODEL: PER OWNER COLOR: BLACK / CHARCOAL

B2 <u>VINYL BASE:</u> COMMERCIAL-GRADE 6" HIGH 1/8" THICK COLOR INTEGRATED VINYL WALL BASE

COVE-TOE MAKE/MODEL: PER OWNER COLOR: WHITE

WALL TYPES

W1 GYPSUM WALL BOARD 'A': 5/8" THICK GYPSUM WALL BOARD SMOOTH FINISH:

> PER ROOM SCHEDULE COLOR:

W2 GYPSUM WALL BOARD 'B': 5/8" THICK GYPSUM WALL BOARD FINISH: SMOOTH

PER ROOM SCHEDULE

W3 TILE WAINSCOTING: COMMERCIAL-GRADE 6"X6" STAIN-RESISTANT CERAMIC TILE OVER 5/8" THICK WATER-RESISTANT GYPSUM WALL BOARD FROM FINISHED FLOOR UP 60" W/ 6"X12" CONTRASTING TILE

BANDS, TOP & BOTTOM MAKE/MODEL: PER OWNER COLOR/ TEXTURE: PER OWNER

W4 TILE WAINSCOTING: COMMERCIAL-GRADE 24"X24" STAIN-RESISTANT CERAMIC TILE OVER 5/8" THICK WATER-RESISTANT GYPSUM WALL BOARD FROM FINISHED FLOOR UP 60" W/ 6"X12" CONTRASTING TILE

BANDS, TOP & BOTTOM MAKE/MODEL: PER OWNER COLOR/ TEXTURE: PER OWNER

CEILING TYPES

C1 LAY-IN TILES 'A': MINERAL FIBER 5/8" THICK CLASS A (UL) CEILING TILES IN SUSPENDED METAL GRID

> SIZE: 24" X 24" /C STYLE: **SQUARE EDGE** METAL GRID: 15/16" SQ. LAY-IN T-GRID MAKE/MODEL: PER OWNER COLOR: PER OWNER

C2 LAY-IN TILES 'B': MINERAL FIBER 5/8" THICK CLASS A (UL) CEILING TILES IN SUSPENDED METAL GRID

SIZE: 24" X 24" STYLE REVEALED EDGE METAL GRID: 15/16" SQ. LAY-IN T-GRID MAKE/MODEL: PER OWNER COLOR: PER OWNER

C3 GYPSUM WALL BOARD: 5/8" THICK TYPE-X GYPSUM WALL BOARD CEILING OVER METAL OR WOOD FRAMING

FINISH: SMOOTH PAINT:

PAINT TYPES

P5 PAINT TYPE 'E':

P7 PAINT TYPE 'G':

P1 PAINT TYPE 'A': SATIN LATEX (2-COATS) SHERWIN WILLIAMS, PRO-INDUSTRIAL MAKE/MODEL COLOR: BLUE ACCENT WALLS

P2 PAINT TYPE 'B': SATIN LATEX (2-COATS) SHERWIN WILLIAMS, PRO-INDUSTRIAL MAKE/MODEL COLOR: WHITE WALLS

P3 PAINT TYPE 'C': SATIN LATEX (2-COATS) SHERWIN WILLIAMS, PRO-INDUSTRIAL MAKE/MODEL COLOR: GRAY ACCENT WALLS

P4 PAINT TYPE 'D': SATIN LATEX (2-COATS) MAKE/MODEL SHERWIN WILLIAMS, DURATION COLOR: TRDI BLUE 1

SHERWIN WILLIAMS, DURATION MAKE/MODEL COLOR: TRDI BLUE 2

SATIN LATEX (2-COATS)

SATIN LATEX (2-COATS)

P6 PAINT TYPE 'F': SATIN LATEX (2-COATS) MAKE/MODEL SHERWIN WILLIAMS, DURATION COLOR: TRDI BLUE 3

SHERWIN WILLIAMS, DURATION MAKE/MODEL COLOR: TRDI BLUE 4 P8 PAINT TYPE 'H': FLAT LATEX (2-COATS) SHERWIN WILLIAMS, CEILING

HIGH REFLECTIVE WHITE COLOR: P9 PAINT TYPE 'I': SEMI-GLOSS (2-COATS) SHERWIN WILLIAMS, DOOR AND TRIM ENAMEL

COLOR: BLACK OR CHARCOAL DOORS AND DOOR TRIM P10 PAINT TYPE 'J': SEMI-GLOSS (2-COATS)

SHERWIN WILLIAMS, DOOR AND TRIM ENAMEL MAKE/MODEL COLOR: WHITE DOORS AND DOOR TRIM

P11 PAINT TYPE 'K': SEMI-GLOSS (2-COATS) EXTERIOR METAL MAKE/MODEL COLOR: TO MATCH MT-01

P12 PAINT TYPE 'L': SEMI-GLOSS (2-COATS) EXTERIOR METAL COLOR: TO MATCH MT-02

ROOM FINISH SCHEDUULE CEILING HEIGHT BASE WALLS PAINT TYPE | CEILING | AREA ROOM NAME FLOOR FINISH 100 LOBBY 13' - 0" SEE A4. ∑ C3 135 SF 101 ADMIN OFFICE 12' - 0" W1 |P1 C1 113 SF 102 LARGE CONFERENCE 12' - 8" SEE A4.1 C1, C3 240 SF 12' - 0" [≻]|C1 152 SF 103 | MANAGER'S OFFICE W1 12' - 0" 104 OFFICE 88 SF 105 COPY / STORAGE 12' - 0" 71 SF W1 C1 12' - 0" C1 146 SF 106 | SMALL CONF. / 2 PERSON OFFICE 107 WOMEN'S RESTROOM 10' - 0" 116 SF 10' - 0" (C1 116 SF 108 MEN'S RESTROOM 12' - 0" PT-3 109 CORRIDOR 51 SF |P3 |C1 12' - 0" SEE A4.2 C1 110 OPEN OFFICE 8 SF 11 STORAGE PT-2 8' - 0" 12' - 0" 159 SF 112 BREAK ROOM C1 113 JANITOR'S CLOSET 9' - 0" PT-2 . |C1 31 SF 114 STORAGE 9' - 0" PT-2 > C1 26 SF 41 SF 115 DATA 9' - 0" PT-2 C1 116 WAREHOUSE 17' - 3" N/A N/A N/A N/A 3061 SF 5160 SF

DUNCAN ARCHITECTS

TRDI OFFICE AND **WAREHOUSE**

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PHARR, TX 78577

ARCHITECT <u>OWNER</u> DUNCAN ARCHITECTS LLC 425 SOLEDAD, SUITE 800 804 PECAN BLVD, SUITE 113 SAN ANTONIO. TX 78205 McALLEN, TX 78501 210-572-0402 956-443-3755

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P.E.M.B. SUPPLIER & E.O.R.

REV.	DESCRIPTION	DATE
А	90% CONSTRUCTION DOCUMENTS	02/02/2024
В	CONSTRUCTION DOCUMENTS FOR BIDDING	02/16/2022
С	BIDDING REVISION 1	02/28/2024
1		

FEBRUARY 16TH, 2024 CONSTRUCTION DOCUMENTS FOR BIDDING

NOT FOR REGULATORY APPROVAL PERMITTING. OR CONSTRUCTION

SCALE 12" = 1'-0" **DUNCAN ARCHITECTS** DRAWN BY: 16 FEBRUARY 2024

SCHEDULES & DOOR / WINDOW ELEVATIONS

A6.0

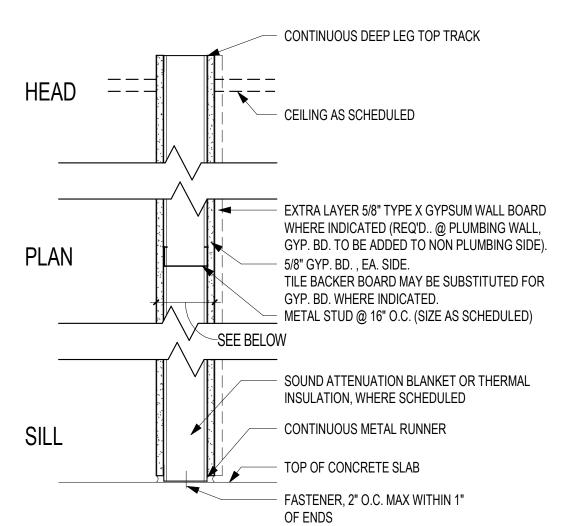
ALTERNATE SUPPORT: METAL STUD JOIST SPANNING WALL-TO-WALL WITH NO CONNECTION TO STRUCTURE **BUILDING STRUCTURE** CABLE RESTRAINT WITH 1" SLACK 1 1/2" COLD-ROLLED "C" CHANNEL, 48" O. C. 1 1/2" TO 3 CLEARANCE USG METAL FURRING CLIP 7/8" FURRING CHANNEL, 16" 5/8 GYPSUM BOARD 1/4" ACOUSTICAL SEALANT OVER FOAM BACKER ROD CEILING ASSEMBLY C-3

ACOUSTICALLY RATED WALLS

- AT DOUBLE STUD WALLS, DO NOT BRIDGE BETWEEN ROWS OF STUDS EXCEPT AT HEAD AND SILL. USE UL U493.
- DO NOT LOCATE OUTLET BOXES OPPOSITE ONE ANOTHER IN ACOUSTICALLY RATED PARTITIONS, LOCATE OUTLETS AT LEAST ONE STUD BAY AND 16-INCHES APART, IF LOCATED BACK TO BACK, ADD LAYER OF DRYWALL BETWEEN OUTLET BOXES.
- SEAL THE OUTLET BOXES WITH PUTTY PADS SUCH AS LOWRY'S OUTLET BOX PADS, AND CAULK THE PERIMETER USING ACOUSTICAL SEALANT.
- AT ALL ACOUSTICALLY RATED SINGLE-STUD WALLS, USE 25 GA METAL STUDS.
- ALL ACOUSTICALLY RATED WALLS ACHIEVE A MINIMUM STC RATING OF 50.
- WALL TYPES "C" AND "R" COMPLY WITH TEST REPORT: "KAISER GYPSUM TEST KG-163".
- WALL TYPE "A" COMPLIES WITH TEST REPORT: "NATIONAL GYPSUM CO. TEST NGC 3056". PROVIDE A 1/4-INCH CAULKED GAP AT ALL INTERSECTIONS AND PENETRATIONS OF
- SOUND-RATED PARTITIONS.

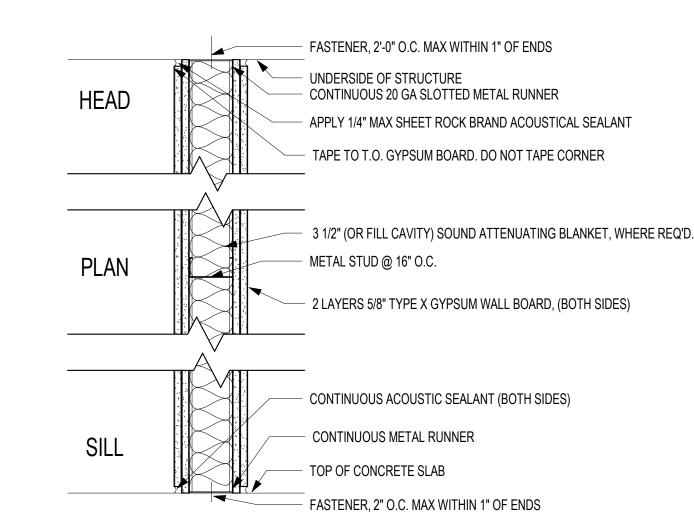
HANGER WIRE **CROSS RUNNER** MAIN RUNNER 24X24 ACOUSTICAL

CEILING ASSEMBLY C-1



WALL TYPE	CHANNEL/ STUD SIZE	OVERALL DIMENSION	RATING	UL DESIGN #	LIMITING HEIGHT	
	0.05 0.22	D.III.Z. (GIGIT		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	25 GA	20 GA
- P - 3	3 5/8"	4-7/8"	NONE (NON- COMBUSTIBLE)	-	14'-4"	15'-8"
- P BG 3	3 5/8"	5-1/2"	NONE (NON- COMBUSTIBLE)	-	14'-4"	15'-8"
- P B 6	6"	7-1/4"	NONE (NON- COMBUSTIBLE)	-	19'-9"	23'-2"

TYPE P-NON COMBUSTIBLE WALL
1 1/2" = 1'-0"



WALL TYPE	CHANNEL/ STUD SIZE	OVERALL DIMENSION	RATING	UL DESIGN #	SOUND ATTENUATION	LIMITING HEIGHT 25 GA 20 GA		
					BLANKET	23 GA	20 GA	
1 R B 3	3-5/8"	6-1/8"	2-HOUR	U411	3-1/2"	14'-4"	N/A	
2 R - 3	3-5/8"	6-1/8"	2-HOUR	U411	-	14'-4"	N/A	
2 R B 3	3-5/8"	6-1/8"	2-HOUR	U411	3-1/2"	14'-4"	N/A	
2 R - 6	6"	8-1/2"	2-HOUR	U411	-	19'-9"	N/A	
2 R B 6	6"	8-1/2"	2-HOUR	U411	3-1/2"	19'-9"	N/A	

TYPE R-RATED WALL (2 HOUR)

GENERAL PARTITION NOTES

- REFER TO PARTITION LEGEND THIS SHEET FOR 'FIRE RATING', 'CONSTRUCTION TYPE' AND 'STUD SIZE ' SYMBOLS USED TO IDENTIFY PARTITIONS ON THE DRAWINGS.
- REFER TO PARTITION LEGEND THIS SHEET FOR 'MODIFIERS' WHICH ARE USED TO IDENTIFY ADDITIONAL REQUIREMENTS TO BASIC PARTITION TYPE.
- ALL METAL STUDS SHALL BE SPACED 16" O.C. U.O.N.
- ALL FIRE RATED PARTITIONS SHALL BE 5/8" THICK TYPE 'X' GYPSUM BOARD. ALL PARTITIONS IN OCCUPIED SPACES THAT HAVE PLUMBING TO BE INSULATED.
- STUDS TO BE FILLED WITH BATT INSULATION. PARTITIONS IN OR ADJOINING SPACES WITH CEILING FINISHES AND WITHOUT SPECIAL REQUIREMENTS SHALL EXTEND TO THE GYPSUM BOARD TO 6" MINIMUM ABOVE THE HIGHEST ADJACENT CEILING.
- ALL ACOUSTICAL WALLS TO HAVE ASSEMBLY EXTEND FULL HEIGHT OF SPACE FROM T.O. SLAB TO B.O. DECK SEAL ALL EDGES AS REQUIRED.
- ALL FIRE-RATED WALLS TO HAVE ASSEMBLY EXTEND FULL HEIGHT OF SPACE FROM T.O. SLAB TO B.O. DECK SEAL ALL EDGES AS REQUIRED.
- PENETRATIONS IN FIRE-RATED CONSTRUCTION SHALL BE PROTECTED BY AN APPROVED FIRE STOP MATERIAL IN ACCORDANCE WITH 2018 IBC AND 2018 IFC.
- MAINTAIN RATING AROUND RECESSED FIXTURES. ALL ELECTRICAL ROOMS WITH TRANSFORMERS AND ALL MECHANICAL ROOMS ADJACENT TO TENANT SPACES TO HAVE SOUND INSULATION APPLIED TO 25%OF
- GROSS INTERIOR WALL SURFACE. APPLY INSULATION AFTER WALL MOUNTED EQUIPMENT HAS BEEN INSTALLED. PROVIDE CONTINUOUS FIRE RETARDANT TREATED PLYWOOD BACKING AT ALL
- ELECTRICAL ROOMS AND COORDINATE BACKING LOCATIONS WITH ELECTRICAL PANEL LOCATIONS. WHEN PARTITION RUNS PARALLEL TO ROOF STRUCTURE, SPAN PURLINS WITH 14
- GA 6" CONTINUOUS PLATE.
- WHEN PARTITION RUNS PERPENDICULAR TO ROOF STRUCTURE, GYPSUM BOARD TO EXTEND INTO 'PURLIN AREAS'. AT PARTITIONS SCHEDULED TO RECEIVE CERAMIC TILE FINISH, PROVIDE WATER
- RESISTANT TYPE GYPSUM WALL BOARD. INSTALLATION OF WATER RESISTANT GYPSUM BOARD OR BACKER BOARD ASSEMBLY SHOULD CONFORM TO REQUIREMENTS FOR FIRE-RESISTANCE RATING INDICATED.
- PROVIDE ADEQUATE STUD REINFORCING WHERE STUDS ARE TO BE CUT FOR PIPING DISTRIBUTION. CONTRACTOR SHALL COORDINATE ALL ANCHORS INTO THE SLAB, FROM ABOVE &
- BELOW, WITH ELECTRICAL CONDUITS IN THE SLAB. TILE BACKER BOARD (TB) REQUIRED AT ALL TUB AND SHOWER WALLS. SEE PLANS,
- ENLARGED BATHROOM PLANS, AND DETAILS FOR LOCATIONS. PROVIDE 25 GA STUDS U.O.N.
- CONTRACTOR TO PROVIDE SPECIFIC REFERENCES IN FIELD FOR INSPECTION AND VERIFICATION FOR ALL FIRE RATED/ SOUND RATED ASSEMBLIES. I.E. GYP CATALOG REFERENCE #, CODE REFERENCE #, AND LARR #, OR ICC #.COMPLETE NOTES FROM THE REFERENCE FOR EACH DETAIL MUST BE PROVIDED W/ IN THE PLAN. 2-HOUR SHAFTS (STAIRS, ELEVATORS, TRASH/ RECYCLING CHUTES, MECH SHAFTS, ETC.), 1-HOUR WALLS BETWEEN UNITS AND ANY OTHER USES, ETC. STC 50 IS ALSO REQUIRED FOR ALL WALLS THAT SEPARATE A UNIT FROM OTHER UNITS AND UNITS FROM ANY OTHER USES SUCH AS SHAFTS, CORRIDORS, LAUNDRY ROOMS, STAIRS, ETC.

WALL PARTITION LEGEND

- # STUD SIZE (NOMINAL) MODIFIER

P = NON-COMBUSTIBLE WALL PARTITION

B = FOR ACOUSTIC RATED WALLS. BATT INSULATION.

CEMENTITIOUS TILE BACKING BOARD AT TILE D = EXTRA LAYER OF CEMENTITIOUS TILE BACKING

M =1 COURSE 8" CMU CURB AT BASE W/ DOWEL AND

REINFORCING. CENTER STUD ON CMU CURB. N = ADD EXTRA LAYER OF DENSELEMENT SHEATHING

P = FOR ACOUSTICALLY RATED WALLS - BATT

BOARD ADDED TO ASSEMBLY. DO NOT REPLACE GWB.

INSULATION (SEMI-RIGID MINERAL FIBER MAT), REQ'D ONLY AT STUD CAVITIES WITH PLUMBING PIPING. T = THERMAL INSULATION (FLEXIBLE GLASS FIBER, R=13)

X WALL TYPE

FIRE RATING

WALL TYPE

STUD SIZE

MODIFIERS

30 = 30 MINUTES

1 = 60 MINUTES

2 = 120 MINUTES

3 = 35/8" STUD 6 = 55/8" STUD

R = FIRE RATED WALL

(SEMI-RIGID MINERAL FIBER MAT)

ON EXTERIOR SIDE OF WALL

C = REPLACE GYPSUM WALL BOARD WITH

FIRE RATING

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REV.	DESCRIPTION	DATE
В	CONSTRUCTION DOCUMENTS FOR BIDDING	02/16/2022
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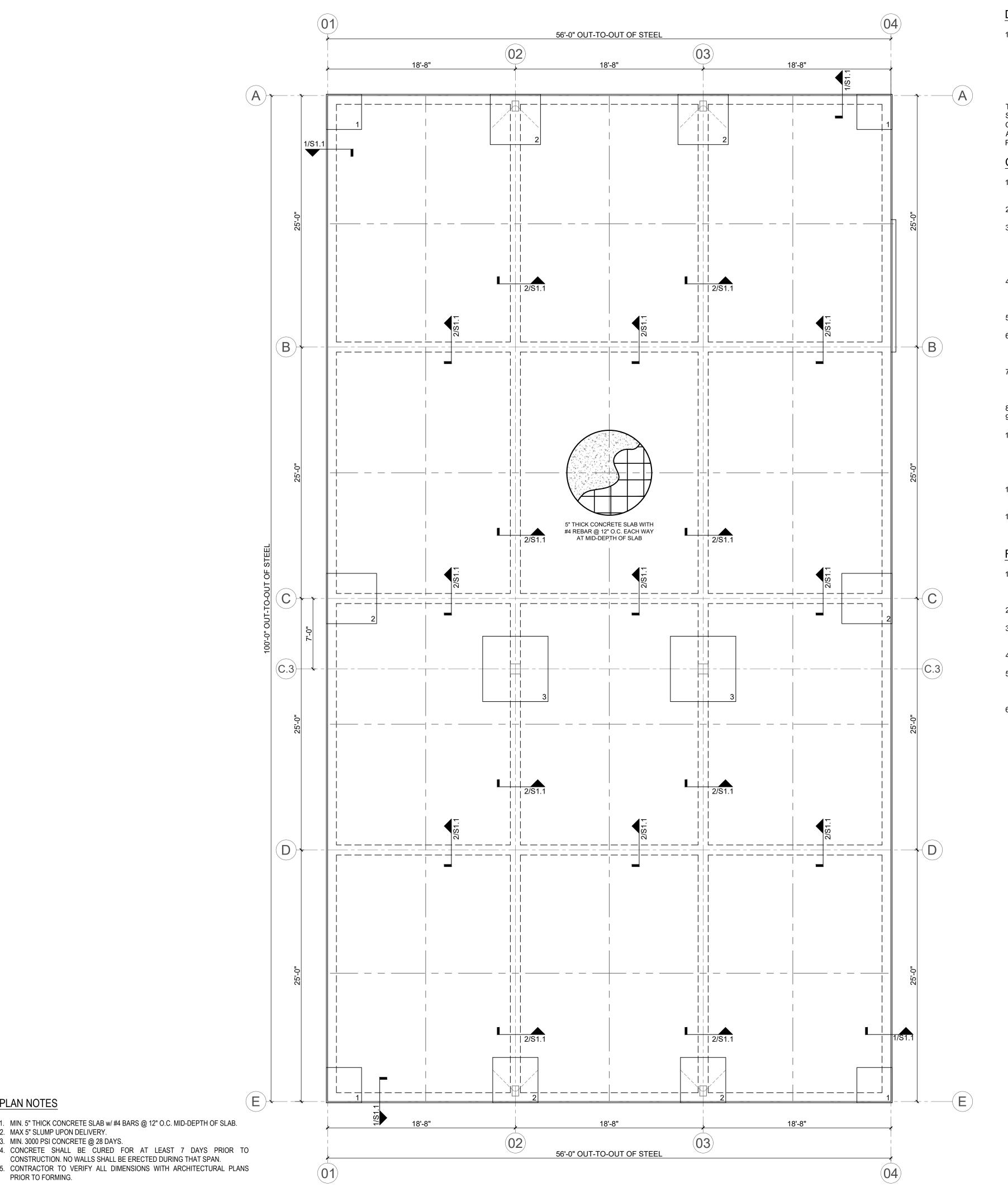
FEBRUARY 16TH, 2024 CONSTRUCTION DOCUMENTS FOR BIDDING

NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION

As indicated DRAWN BY: DUNCAN ARCHITECTS 16 FEBRUARY 2024

PARTITION SCHEDULE

A6.1



PLAN NOTES

MAX 5" SLUMP UPON DELIVERY.

FOUNDATION PLAN

PRIOR TO FORMING.

SCALE 3/32"=1'

3. MIN. 3000 PSI CONCRETE @ 28 DAYS.

DESIGN CRITERIA

1. DESIGN LOADS, STRUCTURAL ANALYSIS AND PREPARATIONS OF STRUCTURAL MEMBERS ARE BASED ON THE FOLLOWING:

CODE: 2018 IBC • WIND DESIGN: ASCE 07 - 16 • ROOF LIVE LOAD: 20 PSF • ROOF DEAD LOAD: 10 PSF

THE SPECIFICATION PRESENTED ON THESE PLANS ARE PRELIMINARY. ONCE FINAL, SEALED PLANS ARE AVAILABLE FOR THE PROPOSED PAVILION STRUCTURE, A REVIEW OF THE SEALED PLANS MUST BE MADE TO MAKE SURE THAT THESE SPECIFICATIONS ARE IN ACCORDANCE WITH THE THE APPLIED LOADINGS AND DESIGN CRITERIA PRESENTED ON THE SEALED PLANS.

CAST-IN-PLACE CONCRETE

- 1. VERIFY ALL DIMENSIONS. COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT AND OR ENGINEER OF ANY
- 2. ALL CONCRETE SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTED SPECIFICATION, ACI #301 AND ACI #318, LATEST EDITION.
- 3. THE MINIMUM 28 DAYS CYLINDER STRENGTH SHALL BE AS FOLLOWS:

STRENGTH MAXIMUM MAXIMUM AGGREGATE SYSTEM AT 28 DAYS SLUMP

SLAB-ON-GRADE 3000 PSI

4. ALL CONDUIT OR PLUMBING LINES IN SLAB SHALL BE PLACED BELOW SLAB REINFORCING. ALL CONDUIT TO BE NO GREATER THAN 1" DIAMETER AND TO BE PLACED IN CENTER OF SLAB. NO PLUMING LINES GRATER THAN 1" ALLOWED IN THE SLAB.

1-1/2"

- 5. ALL OPENINGS IN SLAB (FOR PIPING, DRAINS, ETC.) SHALL BE SEALED WITH 1/2 SEALANT '2A'(SELF-LEVELING 2-PART POLYURETHANE). THE VAPOR RETARDANT BELOW ALL SLAB AREAS SHALL BE 10 MIL
- POLYETHYLENE WITH ALL JOINTS LAPPED 12" CONTINUOUS AND SEALED. DROP VAPOR BARRIER DOWN THE SIDES OF ALL BEAM TRENCHES. DO NOT PLACE VAPOR BARRIER ACROSS TRENCH BOTTOM. 7. CURING COMPOUND SHALL BE PLACED WITHIN FOUR (4) HOURS AFTER CONCRETE HAS BEEN PLACED. CONCRETE SHALL BE MAINTAINED ABOVE 50
- DEGREES F AND IN A MOIST CONDITION FOR AT LEAST THE FIRST SEVEN (7) DAYS AFTER PLACEMENT.
- 8. CONCRETE COVER FOR REINFORCING AS INDICATED.
- ANCHOR BOLTS, DOWELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR TO PLACING CONCRETE.
- 10. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ALL MOLDS. GROOVES, REGLETS, ORNAMENTAL CLIPS, PIPES, CONDUITS, INSERTS, ETC. TO BE CAST IN CONCRETE. PROVIDE OVERSIZED SLEEVES FOR PLUMBING AND ELECTRICAL CONDUITS AND PIPES. NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE, FOOTINGS, OR SLAB UNLESS SPECIFICALLY DETAILED IN THESE PLANS, OR AS DIRECTED BY THE ENGINEER.
- 11. UTILITIES THAT PROJECT THROUGH SLAB FLOORS SHOULD BE DESIGNED WITH EITHER SOME DEGREE OF FLEXIBILITY OR WITH SLEEVES IN ORDER TO PREVENT DAMAGE TO THE LINES SHOULD VERTICAL MOVEMENT OCCUR.
- 12. CONCRETE TO BE CURED IN ACCORDANCE WITH ACI RECOMMENDATIONS. PROPOSED METHOD OF CURING TO BE COORDINATED WITH ENGINEER PRIOR TO CONCRETE PLACEMENT.

REINFORCING STEEL

- 1. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS, AND ALL ACCESSORIES UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH THE 7. FOUNDATION CONCRETE SHALL NOT BE PLACED ON SELECT FILL SOILS THAT ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE". ACI #315 LATEST EDITION.
- 2. ALL REINFORCING BARS SHALL BE NEW BILLET STEEL AND SHALL CONFORM TO
- ASTM A615 GRADE 60 SPECIFICATIONS. 3. PROVIDE CORNER BARS TOP AND BOTTOM AT ALL BEAM CORNERS AND DEAD END BEAM INTERSECTIONS. BARS TO EQUAL SIZE AND QUANTITY OF THE NOTED
- BEAM STEEL. BARS SHALL LAP BEAM REINFORCEMENT 40 BAR DIAMETERS. 4. BARS DETAILED AS CONTINUOUS SHALL BE LAPPED 40 BAR DIAMETERS AT SPLICES.
- 5. EXTEND THE SLAB REINFORCING STEEL, PERPENDICULAR TO THE BEAM, TO THE TOP OUTSIDE REINFORCING BAR OF PERIMETER BEAMS. START THE SLAB REINFORCING STEEL, PARALLEL TO THE BEAM, NOT MORE THAN 6" FROM THE TOP INSIDE REINFORCING BAR OF PERIMETER BEAMS.
- 6. PROVIDE #4 "Z" BARS AT 12" ON CENTER WHERE THE SLAB STEPS DOWN MORE THAN 3". THE "Z" BARS AT 12" ON CENTER WHERE THE SLAB STEPS DOWN MORE THAN 3". THE "Z" BARS SHALL LAP THE MAIN SLAB REINFORCING STEEL 40 BAR

GENERAL NOTES:

- 1. THE FOLLOWING SPECIFICATIONS ARE AN OUTLINE OF MINIMUM MATERIAL REQUIREMENTS AND THEIR APPLICATION. MANUFACTURER SPECIFICATION AND LOCAL CODE REQUIREMENTS, WHEN IN EXCESS OF MINIMUM SPECIFICATION, SHALL CONTROL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW AND SUBMIT ALL SHOP DRAWINGS AND REPORT ALL DOCUMENT DISCREPANCIES TO THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OR ERECTION.
- 2. AT CONSTRUCTION ISSUE, THESE DRAWINGS REPRESENT STRUCTURAL COMPONENTS IN THEIR FINAL AND FINISHED STATE. CONSTRUCTION PROCEDURES, BRACING, METHODS, SAFETY PRECAUTIONS OR MECHANICAL REQUIREMENTS USED TO ERECT THEM ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR OR SUBCONTRACTOR DOING THE WORK.

GEOTECHNICAL ENGINEERING REPORT

THESE PLANS AND GENERAL NOTES HAVE BEEN PREPARED WITH THE DESIGN RECOMMENDATIONS PRESENTED IN ATLAS ENGINEERING CONSULTANTS GEOTECHNICAL ENGINEERING REPORT NO. GEO22-041. THE FOLLOWING FOUNDATION DESIGN CRITERIA WAS USED IN THE FOUNDATION DESIGN:

MINIMUM GRADE BEAM WIDTH: 12 INCHES MINIMUM WIDENED SECTION WIDTH: 24 INCHES

ALLOWABLE SOIL BEARING CAPACITY: 1,500 PSF (CONTINUOUS FOOTING) 1,800 PSF (SPREAD FOOTING)

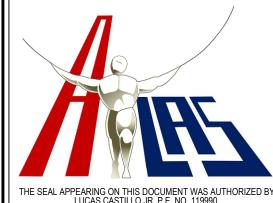
EXCAVATIONS AND BACKFILL REQUIREMENTS

THE FOLLOWING SITE PREPARATION IS REQUIRED PRIOR TO CONSTRUCTION.

- IN ORDER TO EXPOSE CLEAN SUBGRADE SOILS, EXCAVATE TO A DEPTH OF AT LEAST 2.5 FEET AND REMOVE ALL VEGETATION AND DELETERIOUS MATERIALS FROM THE SURFACE. THE EXCAVATION SHOULD EXTEND A MINIMUM OF FIVE (5) FEET BEYOND THE PERIMETER OF THE BUILDING. POSITIVE DRAINAGE FROM THE STRUCTURE SHOULD BE PROVIDED.
- 2. THE EXPOSED SUBGRADE SOILS SHOULD BE COMPACTED TO 98 PERCENT OF THE STANDARD PROCTOR (ASTM D698) FOR A DEPTH OF AT LEAST 8 INCHES BELOW THE EXPOSED SURFACE. THE MOISTURE CONTENT OF THE COMPACTED SUBGRADE SOILS SHOULD BE WITHIN THE RANGE OF OPTIMUM TO 4 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT
- AFTER SUBGRADE PREPARATION AND OBSERVATION HAVE BEEN COMPLETED, A MINIMUM OF 3.0 FEET OF SELECT FILL, MEETING THE SPECIFICATIONS PRESENTED BELOW, SHOULD BE PLACED BACK ON TOP OF THE PREPARED SUBGRADE SOILS. THE SOILS SHOULD BE PLACED IN MAXIMUM 8-INCH LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698.
- 4. THE MOISTURE CONTENT, AS DETERMINED BY ASTM D698, SHOULD BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE. EACH LIFT OF COMPACTED FILL SHOULD BE TESTED BY A TESTING LABORATORY PRIOR TO PLACEMENT OF SUBSEQUENT LIFTS.
- PROPERLY COMPACTED AND TESTED SELECT FILL SHOULD BE USED TO ACCOMMODATE RAISE IN GRADE TO ACHIEVE THE DESIRED FINISHED FLOOR ELEVATION. SELECT FILL SHOULD HAVE A MAXIMUM LIQUID LIMIT OF 40 PERCENT, A PLASTICITY INDEX BETWEEN 7 AND 18 PERCENT AND A MAXIMUM PARTICLE SIZE NOT EXCEEDING 4 INCHES OR ONE-HALF THE LOOSE LIFT THICKNESS, WHICHEVER IS SMALLER.
- SITE SHALL BE GRADED SO THAT WATER DOES NOT POND WITHIN 10 FEET OF THE PERIMETER FOUNDATION BEAM DURING OR AFTER CONSTRUCTION. THE SLOPE OF THE GROUND SURFACE AWAY FROM THE STRUCTURE SHOULD BE A MINIMUM OF 5% FOR A DISTANCE OF AT LEAST 10 FEET. ELEVATION OF GROUND SURFACE ADJACENT TO THE FOUNDATION SHOULD BE AT LEAST 6 INCHES BELOW FINISH FLOOR.
- HAVE BEEN DISTURBED BY RAINFALL OR WATER SEEPAGE. IF BEARING SOILS ARE SOFTENED BY WATER INTRUSION, OR BY DESICCATION, THE UNSUITABLE SOILS SHALL BE REMOVED FROM THE FOUNDATION EXCAVATION AND BE REPLACED WITH PROPERLY COMPACTED SELECT FILL PRIOR TO PLACEMENT OF FOUNDATION CONCRETE. ALL SOIL REMOVAL AND REPLACEMENT COSTS, INCLUDING ASSOCIATED COSTS TO REMOVE AND REINSTALL REINFORCEMENT AND VAPOR RETARDER MATERIALS, SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. DEPTH OF SOIL REMOVAL AND RECOMPACTION REQUIREMENTS SHALL BE COORDINATED WITH THE GEOTECHNICAL ENGINEER.

ATLAS ENGINEERING CONSULTANTS **TPBE FIRM NO. 17057** 2820 GULL MCALLEN, TEXAS 78504 956-379-3857 lcastillo.atlas@gmail.com

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FOOTING SCHEDULE DEPTH (FT) DETAIL **TYPE** SIZE (FT) REINFORCEMENT #5 @ 6" O.C. E.W. BOT. 4/SD1 3.0 3.5 x 3.5 #5 @ 6" O.C. E.W. BOT. 3.0 4.5 x 4.5 #5 @ 6" O.C. E.W. BOT. 6.5 x 6.5

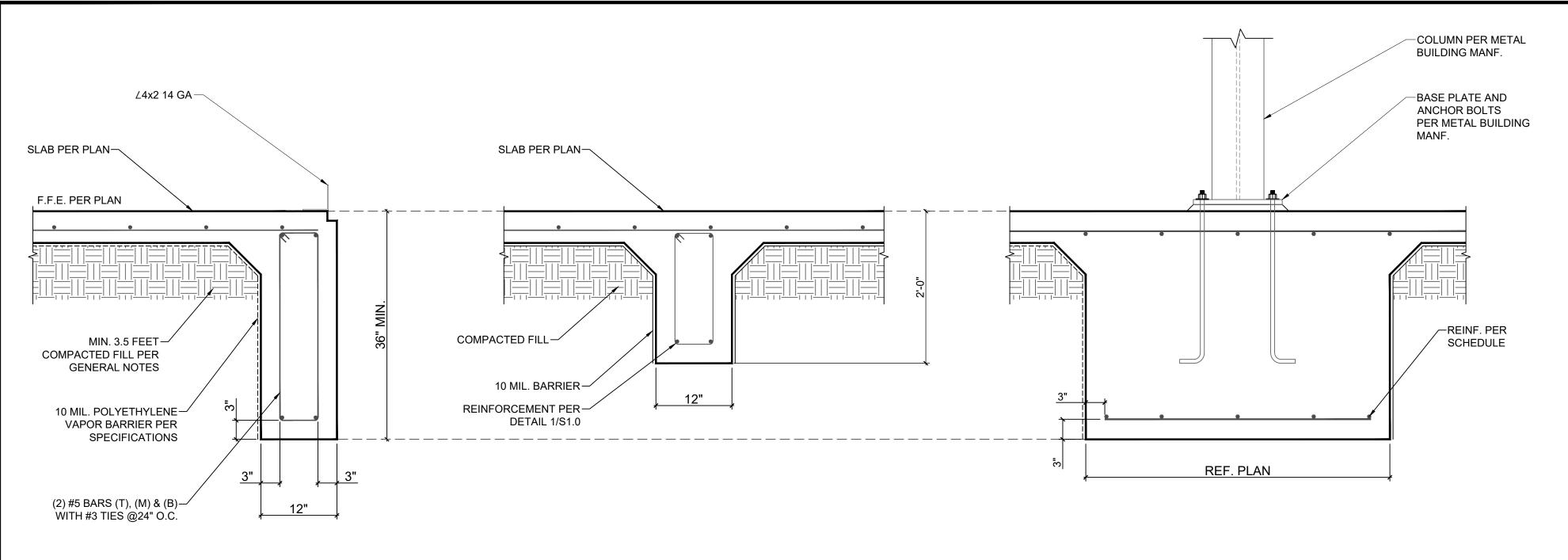
914 WEST SHARM DRIVE

^{ATE:} 02/02/2024

PHARR, TEXAS PROJECT NO.: ST24-016

FOUNDATION PLAN

S_{1.0}



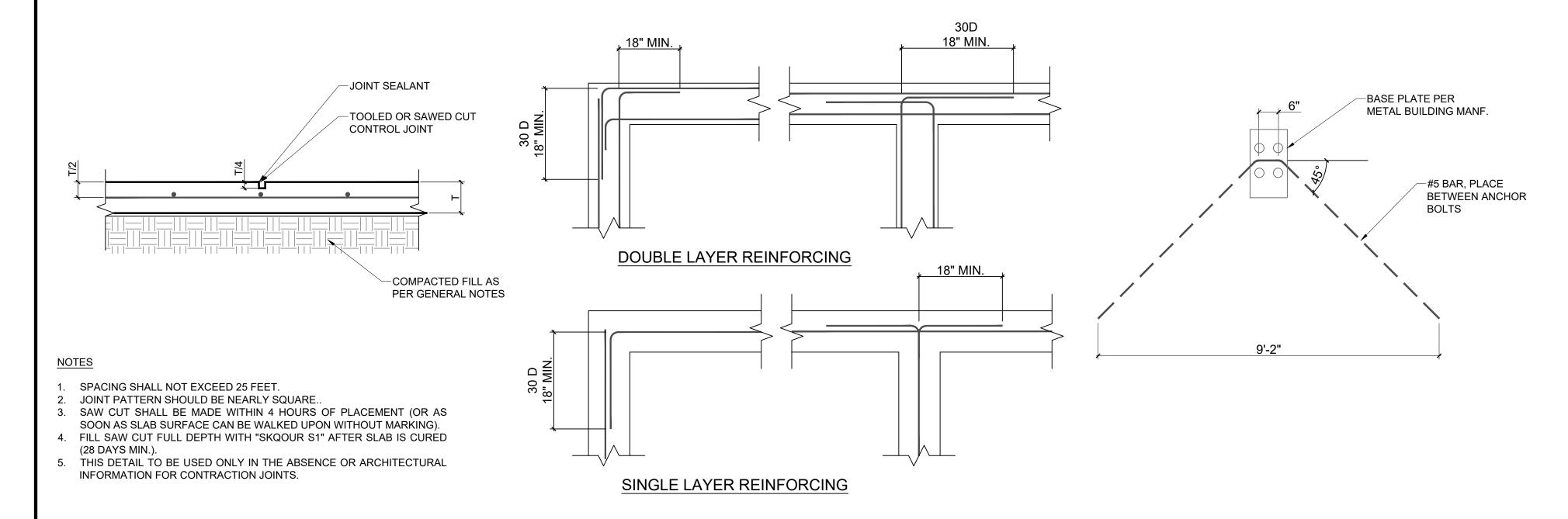
1. EXTERIOR GRADE BEAM

5. CONTRACTION JOINT

2. INTERIOR GRADE BEAM

4. FOOTING AT COLUMN TYP.

7. REINF. AT FOOTING



6. REINF. AT CORNERS & INTERSECTIONS

STRUCTURAL FIELD OBSERVATIONS

- 1. JOB SITE OBSERVATIONS BY THE PROFESSIONAL ENGINEER OR HIS AUTHORIZED REPRESENTATIVE SHALL CONSIST OF VISUAL OBSERVATION OF MATERIALS, EQUIPMENT OR CONSTRUCTION WORK FOR THE PURPOSE OF ASCERTAINING THAT THE WORK IS IN SUBSTANTIAL CONFORMANCE WITH THE CONTRACT DOCUMENTS AND WITH THE DESIGN INTENT. SUCH OBSERVATIONS SHALL NOT BE RELIED UPON BY OTHERS AS ACCEPTANCE OF THE WORK, NOR SHALL IT BE CONSTRUED TO RELIVE THE CONTRACTOR IN ANY WAY FROM HIS OBLIGATIONS AND RESPONSIBILITIES UNDER THE CONSTRUCTION CONTRACT. SPECIFICALLY BUT WITHOUT LIMITATION, OBSERVATIONS BY THE DESIGN PROFESSIONAL SHALL NOT REQUIRE THE DESIGN PROFESSIONAL TO ASSUME RESPONSIBILITY FOR THE MEANS AND METHODS OF CONSTRUCTION, NOR FOR SAFETY ON THE JOB SITE.
- 2. NOTIFY ENGINEER 24 HOURS IN ADVANCE WHEN A STRUCTURAL OBSERVATION IS REQUIRED. SPECIAL INSPECTIONS INDEPENDENT OF THE CONTRACTOR, THE ARCHITECT, OR THE ENGINEER, SHALL BE PROVIDED BY A SPECIAL INSPECTOR EMPLOYED BY THE OWNER ACCORDING TO CHAPTER 17 OF THE IBC 2012. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR SHALL SEND WRITTEN REPORTS TO THE OWNER, THE ARCHITECT, THE ENGINEER, AND THE CONTRACTOR. THE REPORTS SHALL INDICATE IF WORK INSPECTED WAS DONE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE SPECIAL INSPECTOR SHALL BRING THE DISCREPANCIES TO THE ATTENTION OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. THE SPECIAL INSPECTION WORK WAS, TO THE BEST OF THEIR KNOWLEDGE, IN OR NOT IN CONFORMANCE WITH THE DRAWINGS, SPECIFICATIONS AND APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC 2012.

CONTINUOUS OR PERIODIC SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING WORK:

	TABLE 170	4.7	
	REQUIRED VERIFICATION AND II	NSPECTION OF SOI	LS
	VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN CAPACITY.		X
2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		X
3.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		X
4.	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF SELECT FILL.	X	
5.	PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		X

	TABLE 1704	4.4	
	REQUIRED VERIFICATION & INSPECTION (OF CONCRETE CON	ISTRUCTION
	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1.	INSPECTION PF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT		Х
2.	INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1704.3, ITEM 5B.		
3.	INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEE INCREASED OR WHERE STRENGTH DESIGN IS USED.	X	
4.	INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE.		Х
5.	VERIFYING USE OF REQUIRED DESIGN MIX.		Х
6.	AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	x	
7.	INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	х	
8.	INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		X
9.	INSPECTION OF PRESTRESSED CONCRETE.		
	A. APPLICATION OF PRESTRESSING FORCES	X	
	B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	х	
0.	ERECTION OF PRECAST CONCRETE MEMBERS.		Х
11.	VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		x
12.	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		Х

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914 WEST SHARM DRIVE PHARR, TEXAS

PROJECT:

PROJECT NO.: ST24-016

DATE: 02/02/2024 DRAWN BY: X.G.
REVISION:

DETAILS

S1.1

KITCHEN HOOD EXHAUST

LOUVER DESIGNATION

LOW PRESSURE STEAM

THOUSAND BTU/HR.

LEAVING AIR TEMPERATURE

LEAVING WATER TEMPERATURE

MINIMUM CIRCUIT AMPACITY

MEDIUM PRESSURE STEAM

MAXIMUM OVERCURRENT PROTECTION

Valves and Fittings Industry, Inc."

"MANUFACTURERS STANDARDIZATION SOCIETY of the

NATIONAL ENVIRONMENTAL BALANCING BUREAU

OCCUPATIONAL SAFETY and HEALTH ADMINISTRATION

THOUSAND CUBIC FEET

MINIMUM or MINUTES

NOT APPLICABLE

NOISE CRITERIA

NORMALLY CLOSED

NOT IN CONTRACT

OUTSIDE DIAMETER

PART PER MILLION

"PSI, ABSOLUTE"

REFRIGERANT-22

return air

ROOF DRAIN

RECIRCULATE

RETURN FAN

RELIEF HOOD

ROOFTOP UNIT

RELIEF VENT

SUPPLY AIR

SATURATION

REFRIGERANT LIQUID

REFRIGERANT SUCTION

SOUND ATTENUATOR

SMOKE DETECTOR SUPPLY FAN

SPECIFIC GRAVITY

STATIC PRESSURE

TEMPERATURE DIFFERENCE

HEAT TRANSFER COEFFICIENT

UNLESS NOTED OTHERWISE

TONS OF REFRIGERATION

SPECIFICATION

SQUARE FEET

TEMPERATURE

THERMOSTAT

TERMINAL UNIT

UNDER COUNTER

UNIT VENTILATOR

VARIABLE AIR VOLUME

VELOCITY PRESSURE

WET BULB TEMPERATURE

VENT THRU ROOF

YARD CLEANOUT

VARIABLE FREQUENCY DRIVE

UNDERGROUND

UNIT HEATER

VOLT AMPERE

VOLTS

VACUUM

VARIABLE

VELOCITY

VERTICAL

VOLUME

WITH

WITHOUT

WET BULB

WATTS

WEIGHT

YARD

YEAR

ZONE

VENTILATION

SUCTION

REVOLUTIONS PER MINUTE

REVOLUTIONS PER SECOND

RECEIVER

THERMAL RESISTANCE

PRESSURE DIFFERENCE

POUNDS PER SQUARE INCH

"REFER TO DETAIL NO.1, SHEET M-xx"

"SHEET METAL and AIR CONDITIONING"

"CONTRACTORS" NATIONAL ASSOCIATION"

NORMALLY OPEN

NOT TO SCALE

OUTSIDE AIR

OUNCE

PHASE

PRIMARY

PRESSURE

"PSI, GAGE"

KILOWATTS

POUNDS

MAKEUP AIR

MAXIMUM

LIQUID

KILOWATT HOUR

KHE

kW

kWH

LBS.

LPS

MAX.

MCF

MIN.

MOCP

MPS

MSS

N/A

N.C.

NEBB

N.I.C.

Ν.Ο.

N.T.S.

0/A

OSHA

PD

PPM

PRI

PSI

PSIA

PSIG

R - 22

R/A

ŔĊVŔ

RECIRC.

RPM

RPS

S/A

SMACNA

SPEC.

SQ.FT.

SUCT.

TEMP

TONS

TSTAT

UG

UH

VAC

VAR

VAV VEL. VENT.

VERT.

VFD

VOL.

VTR

WB

WBT

YCO

RE: 1/M-xx

PRESS.

AIR DEVICE, SUPPLY- SIDEWALL.

AIR DEVICE, RETURN/EXHAUST- SIDEWALL.

-√-

ALTERNATING CURRENT / ABOVE CEILING AIR COMPRESSOR AIR CONDITIONING UNIT ABOVE FINISHED FLOOR AIR FLOW MEASURING STATION AIR HANDLING UNIT AMBIENT AMPERE "AMERICAN NATIONAL STANDARDS INSTITUTE" APPROXIMATE AMERICAN REFRIGERATION INSTITUTE "AMERICAN SOCIETY OF HEATING, REFRIGERATION, and AIR CONDITIONING ENGINEERS" "AMERICAN SOCIETY OF MECHANICAL ENGINEERS" "AMERICAN SOCIETY OF PLUMBING ENGINEERS" "AMERICAN SOCIETY FOR TESTING AND MATERIALS" AVERAGE "AMERICAN WATER WORKS ASSOCIATION" BOILER BAROMETRIC BAROMETRIC PRESSURE BELOW FLOOR BELOW FINISHED CEILING BELOW GRADE BRAKE HORSEPOWER BOTTOM OF DUCT BILL OF MATERIAL BOTTOM OF PIPE BRITISH THERMAL UNIT COOLING COIL COUNTERCLOCKWISE CONDENSATE DRAIN CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLER CHILLER WATER PUMP CHILLED WATER RETURN CHILLED WATER SUPPLY CLOSED CIRCUIT COOLER COMPRESSOR CONDENSATE RETURN COMPUTER ROOM UNIT COOLING TOWER CONDENSING UNIT CUBIC FEET CUBIC INCH CONSTANT VOLUME CARBON DIOXIDE SENSOR CONDENSER WATER PUMP CONDENSER WATER RETURN CONDENSER WATER SUPPLY DECIBEL DRAIN DRY BULB TEMPERATURE DIRECT CURRENT DIRECT DIGITAL CONTROL DEGREE DENSITY DIFFERENCE or DELTA DOWN DEEP DEW POINT TEMPERATURE EXHAUST AIR EACH ENTERING AIR TEMPERATURE ELECTRIC DUCT HEATER EXHAUST FAN EFFICIENCY ENTHALPY EMERGENCY OVERFLOW DRAIN EXPANSION TANK EVAPORATIVE COOLER ENTERING WATER TEMPERATURE EXPANSION FAHRENHEIT FAN COIL UNIT FLOOR FLAT ON BOTTOM FLAT ON TOP FEET PER MINUTE FEET PER SECOND FAN POWERED TERMINAL UNIT FURNACE FEET FEET of WATER GAGE FACE VELOCITY GALLONS PER HOUR GALLONS PER MINUTE GRAINS HEATING COIL HOOD HEIGHT HORSEPOWER HIGH PRESSURE STEAM HOUR HUMIDIFIER HOT WATER PUMP

ABBREVIATIONS

ACMPR

AFF

AFMS

AMB

AMP

ANSI

APPROX.

ASHRAE

ASME

ASPE

ASTM

AWWA

BARO

ВОМ

CHS

CLR

CRU

CU.FT.

CWR

DENS

DIFF

EFF

FLR.

FOT

FPM

FPS

FRN

FPTU

FT.W.G.

FVEL

GPH

GPM

HCL

HPS

HR

HUM

HWP

HWR

HWS

IN.W.G.

IRH

HOT WATER RETURN

HOT WATER SUPPLY

INCHES of WATER GAGE

INSIDE DIAMETER

INFRARED HEATER

INTAKE HOOD

HERTZ

INCH

ENTH.

DN

CMPR

BAROPR

AVG

<u>GENERAL</u>

1. COORDINATE WORK AMONG ALL DISCIPLINES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO DICTATE WHO MUST DO THE WORK. ALL WORK SHOWN IS THE RESPONSIBILITY OF THE (PRIME) CONTRACTOR.

2. FIELD VERIFY ALL CONDITIONS AND MEASURE DIMENSIONS WITHIN THE BUILDING PRIOR TO ORDERING EQUIPMENT AND/OR PROCEEDING WITH INSTALLATION.

3. ALL EQUIPMENT SHALL BE FACTORY TESTED, AND CONTRACTOR SHALL VERIFY THEIR CONDITION PRIOR TO INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT DAMAGED DURING MOVING AND INSTALLATION.

4. EQUIPMENT FOUND DEFECTIVE PRIOR TO FINAL ACCEPTANCE SHALL BE REPLACED AT NO COST TO OWNER. 5. SUBMISSION OF BID PROPOSAL IS CONSIDERED AN ACKNOWLEDGEMENT THAT CONTRACTOR VISITED SITE, AND 4. ALL GALVANIZED SHEET METAL DUCT WORK SHALL COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION" VERIFIED ALL EXISTING CONDITIONS, AND INCLUDED ANY MODIFICATIONS TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND OPERATIONAL MECHANICAL SYSTEM.

6. COORDINATE WITH OWNER AND ENGINEER FOR ANY DISRUPTION IN UTILITY SERVICES, PARTICULARLY THOSE THAT MIGHT AFFECT OTHER BUILDINGS IN THE CAMPUS.

7. CONTRACTOR SHALL NOT PROCEED WITH ANY WORK INVOLVING A CHANGE IN PROJECT SCOPE OR COST WITHOUT FIRST HAVING OBTAINED ENGINEER'S APPROVAL IN WRITING. UNLESS ENGINEER HAS AGREED TO SUCH CHANGE PRIOR TO IT BEING DONE, AND HAS AGREED THAT AN INCREASE IN COST ASSOCIATED WITH SUCH CHANGE IS WARRANTED; CONTRACTOR WILL NOT BE REIMBURSED FOR SUCH CHANGE.

8. TESTING, ADJUSTING AND BALANCING (TAB) CONTRACTOR SHALL BE RETAINED BY THE PRIME CONTRACTOR TAB SHALL NOT BE A PART OF THE MECHANICAL CONTRACT.

CODES AND ORDINANCES

1. PERFORM ALL WORK PER LATEST VERSION OF INTERNATIONAL MECHANICAL CODE, AND APPLICABLE LOCAL CODES AND ORDINANCES, UNLESS DRAWINGS OR SPECIFICATIONS HAVE MORE STRINGENT REQUIREMENTS.

2. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES ASSOCIATED WITH PROJECT, INCLUDING FEES FOR INSPECTIONS, APPLICATIONS, AND PROVISION OF NEW SERVICES.

3. NOTIFY ENGINEER OF ANY ASPECTS OF DESIGN WHICH ARE THOUGHT TO BE IN NONCOMPLIANCE WITH APPLICABLE CODES.

COORDINATION

1. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS OF CONSTRUCTION, INCLUDING BEAMS, FLOOR AND WALL PENETRATIONS, CHASES, AND REFLECTED CEILING PLANS. VERIFY OPENING SIZES WITH

2. COORDINATE ALL WORK WITH OTHER TRADES; COORDINATE SCHEDULE OF WORK WITH ALL SUB-CONTRACTORS TO ACHIEVE SMOOTH FLOW OF CONSTRUCTION.

3. CONTRACTOR SHALL REVIEW COMPLETE DOCUMENTS PRIOR TO SUBMITTAL OF PROPOSAL TO GAIN COMPLETE UNDERSTANDING OF PROJECT SCOPE, WORK BY OTHERS, AND MECHANICAL WORK ASSOCIATED WITH OTHER

4. ENGINEER/ ARCHITECT MUST BE GIVEN AT LEAST A TEN (10) WORKING DAY NOTICE TO PERFORM ALL TYPES OF INSPECTIONS. COORDINATE WORK SCHEDULE WITH ARCHITECT AND ENGINEER TO PLAN ACCORDINGLY FOR APPROPRIATE INSPECTIONS.

ECONOMIZER.

1. FOR SYSTEMS THAT REQUIRE ECONOMIZER, MECHANICAL CONTRACTOR SHALL PROVIDE A CONTROLLER EQUAL TO HONEYWELL JADE ECONOMIZER MODULE W7220. REFER TO ECONOMIZER DETAIL FOR ADDITIONAL INFORMATION.

METAL AND FLEXIBLE DUCTS

INSIDE CLEAR DIMENSION.

3. CONSTRUCT AND LEAKAGE TEST ALL DUCTWORK BASED ON SMACNA REQUIREMENTS. COORDINATE

5. USE 2" GLASS FIBER-REINFORCED FABRIC JOINT AND SEAM TAPE. USE WATER BASED JOINT AND SEAM SEALER. USE FIRE RESISTANT SEALER FOR FILLING OPENINGS AROUND DUCT PENETRATIONS THROUGH WALLS. ACCEPTABLE PRODUCTS ARE DOW CORNING, FIRE STOP FOAM AND FIRE STOP SEALER OR

6. USE SHEET METAL SCREWS OR BLIND RIVENTS COMPATIBLE WITH DUCT MATERIALS WHEN SECURING ALL DUCTWORK TO STRUCTURE.

8. FLEXIBLE DUCT CLAMP SHALL BE OF STAINLESS STEEL BANDS WITH CADMIUM PLATED HEX SCREW TO TIGHTEN BAND WITH WORM GEAR ACTION.

9. PROVIDE TURNING VANES IN ALL SPLITS, TEES AND SWEPT 90 DEGREE ANGLE DUCT FITTINGS. MANUFACTURED TURNING VANES TO BE 1-1/2" WIDE, DOUBLE VANE, CURVED BLADES OF GALVANIZED

10. WHERE RECTANGULAR TEE FITTINGS ARE SHOWN, PROVIDE FITTING WITH ADJUSTABLE DIVIDER SHEET

12. PROVIDE MANUAL VOLUME CONTROL DAMPERS WHERE SHOWN ON DRAWINGS. DAMPERS TO HAVE NEOPRENE BLADE SEALS AND GALVANIZED STEEL FRAMES, TIE BARS, DAMPER AND BRACKETS.

MANUFACTURER'S ARE RUSKIN CO., NAILOR INDUSTRIES, FLEXMASTER OR EQUAL.

DAMPER IN DUCTWORK OR DIFFUSER, PROVIDE REMOTE MANUAL DAMPER BY YOUNG REGULATOR,

(BOWDEN CABLE CONTROL SYSTEM). CONTRACTOR MAY PROVIDE OPPOSED BLADE DAMPER THAT IS INTEGRAL TO

WITH ENGINEER'S APPROVAL. <u>INSULATION</u>

1. DUCT WRAP INSULATION SHALL BE MINERAL FIBER INSULATION. ALL SERVICE JACKETING MANUFACTURED FROM KRAFT PAPER, REINFORCING SCRIM, ALUMINUM FOIL AND VINYL FILM. ACCEPTABLE MANUFACTURER'S ARE CERTAINTEED, KNAUF OR OWENS-CORNING. INSTALL DUCT WRAP INSULATION PER MANUFACTURER'S INSTRUCTIONS. INTERIOR DUCTWORK TO BE INSULATED WITH DUCT WRAP INSULATION. ALL SUPPLY DUCTS TO HAVE 3" MIN.

THICKNESS (R-8) INSULATION AND ALL RETURN AND OUTSIDE AIR DUCTS TO HAVE 2" MIN. INSULATION.

TESTING, ADJUSTING AND BALANCING (TAB)

BALANCE" OR NEBB'S "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, AND BALANCING OF

1. DRAWINGS ARE DIAGRAMMATIC IN NATURE. FOR CLARITY SAKE, MOST DUCT OFFSETS/RISES/DROPS ARE NOT SHOWN. RECTANGULAR AND ROUND DUCTWORK SHALL BE GALVANIZED STEEL. SIZES SHOWN ARE

2. VERIFY BOTTOM OF DUCT ELEVATION AND COORDINATE WITH OTHER TRADES.

PRESSURE CLASSES WITH EQUIPMENT SCHEDULES.

STANDARDS--METAL AND FLEXIBLE".

7. FLEXIBLE DUCT MAY BE USED TO CONNECT TO SUPPLY DIFFUSERS. MAXIMUM LENGTH OF FLEXIBLE LIMITED TO 6 FEET. PROVIDE FLEXMASTER TYPE 8M UL 181 CLASS I AIR DUCT OR EQUAL. FLEXIBLE DUCT SHALL HAVE MIN. R-8 INSULATING VALUE.

SHEET STEEL SET "" O.C. ACCEPTABLE MANUFACTURER'S ARE DUCTMATE INDUSTRIES, METALAIRE, WARD INDUSTRIES OR EQUAL.

TURNING VANES.

11. WHERE RECTANGULAR MAIN AND BRANCH CONNECTIONS ARE SHOWN, PROVIDE EXTRACTOR VANES.

13. ABOVE INACCESSIBLE CEILINGS AND WHERE DUCT CONFIGURATION DOES NOT ALLOW FOR INSTALLATION

PROJECT #: 2319

1. TAB TO BE PERFORMED BY AN INDEPENDENT ENTITY, CERTIFIED BY AABC OR NEBB.

2. PERFORM TESTING AND BALANCING PROCEDURES PER AABC'S "NATIONAL STANDARDS FOR TOTAL SYSTEM

AND JSE 出 AR TRDI

W. SHARM [IARR, TX 7857

2705 E. DAVIS RD.

PH. 956.513.1849

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EDINBURG TEXAS 78539

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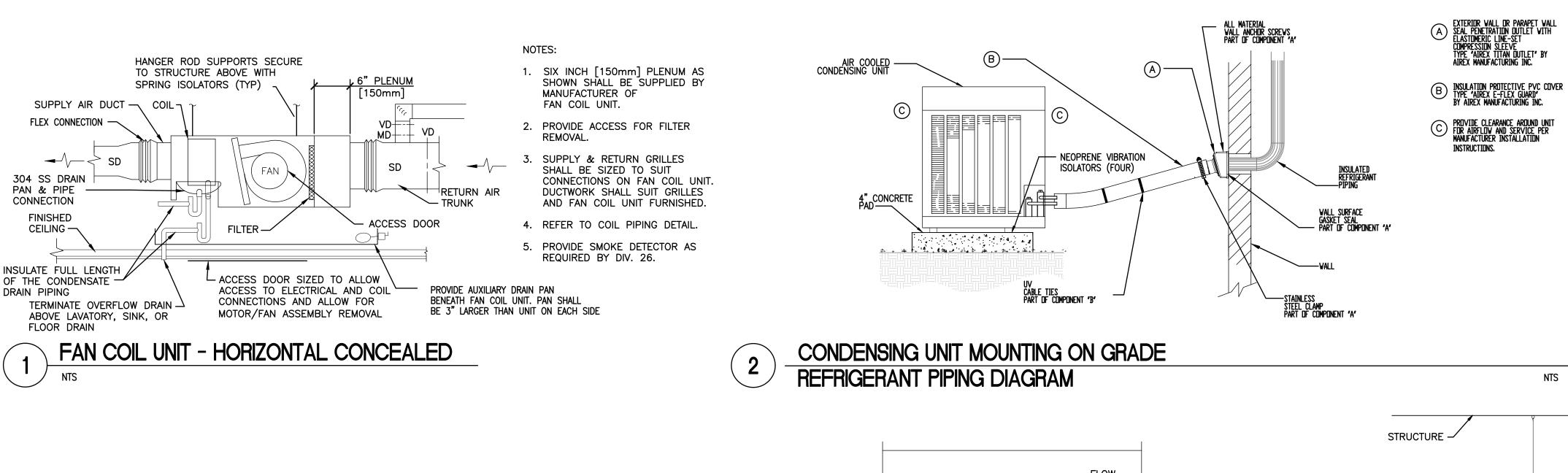
DRAWN BY: H.M. REVIEWED BY: R.O. ISSUED DATE: 2/15/24

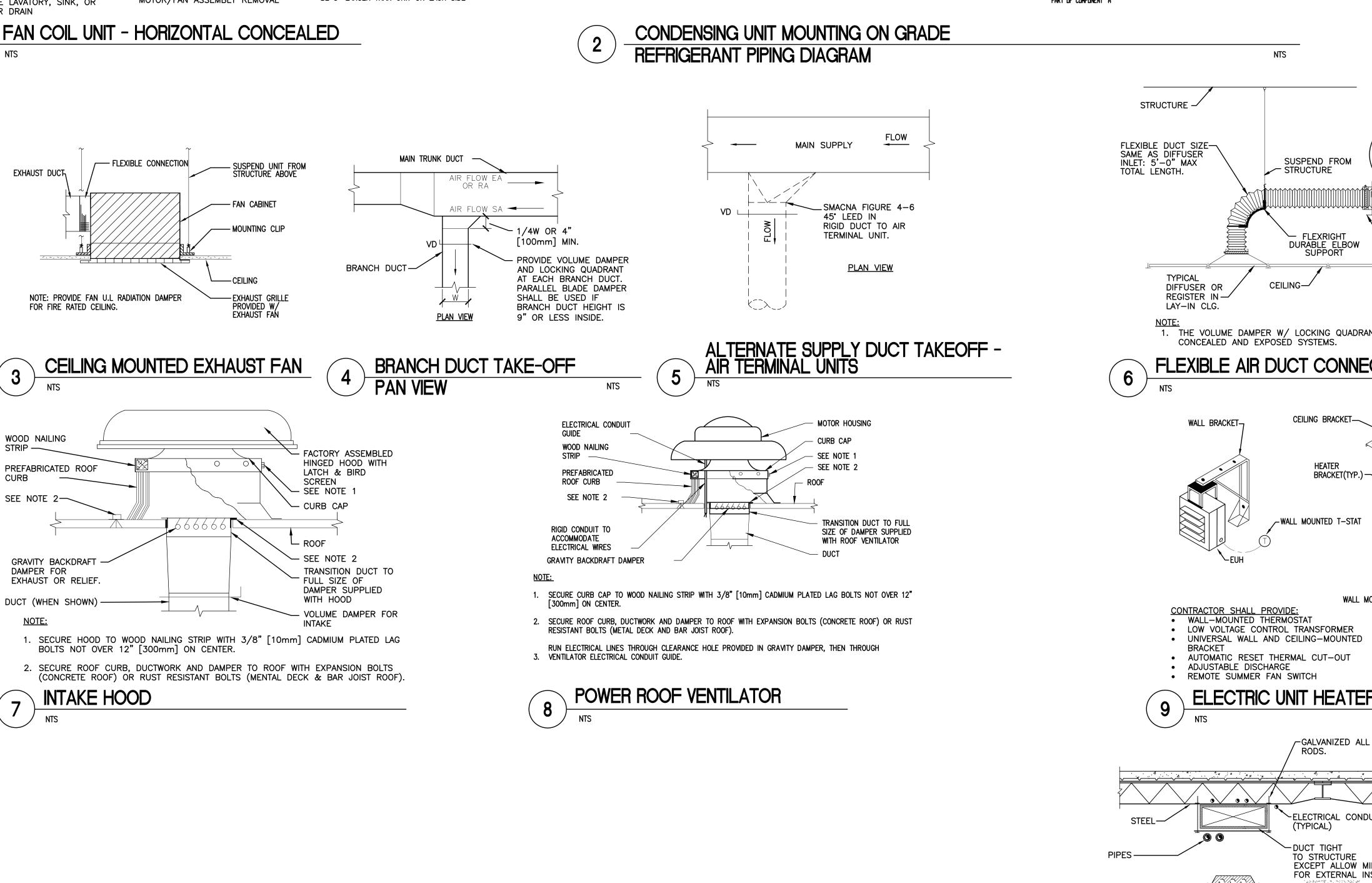
REVISION / ADDENDA NO. DATE DESCRIPTION

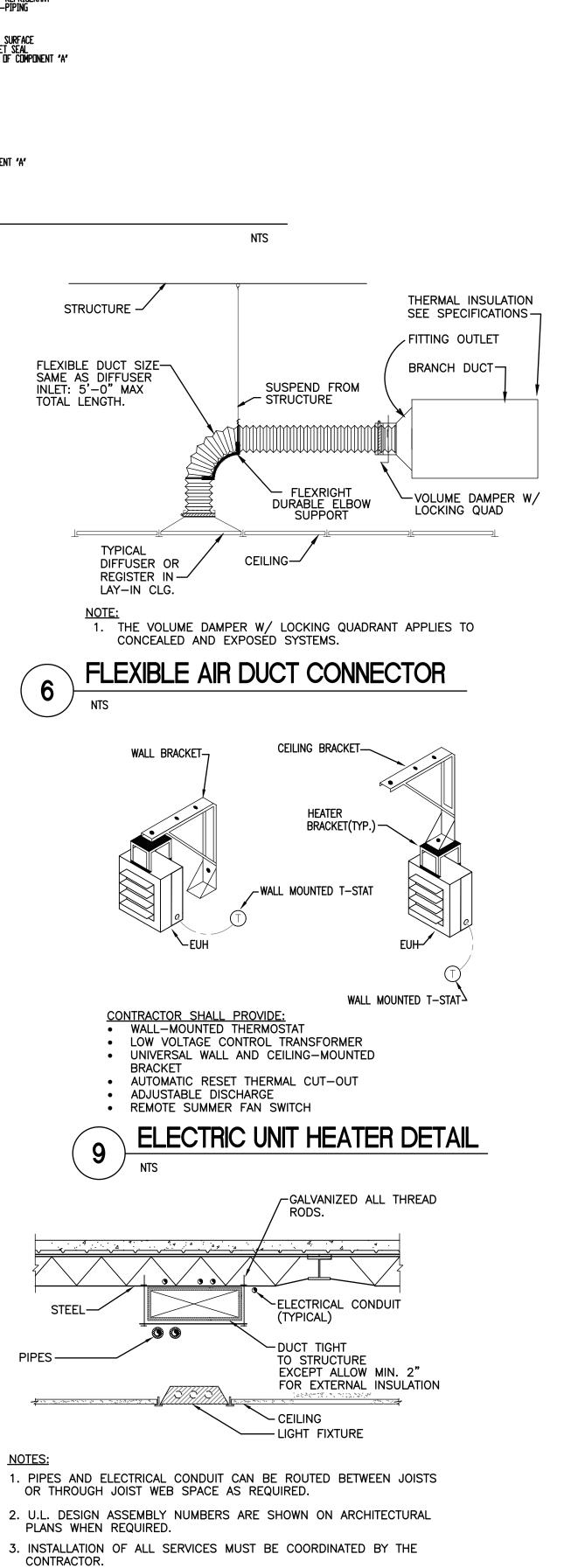
MECHANICAL SYMBOLS SH&TABBREVIATIONS

SHEET

M0.0







RECTANGULAR DUCT INSTALLATION

TRDI DRAWN BY: H.M. REVIEWED BY: R.O. ISSUED DATE: 2/15/24 REVISION / ADDENDA NO. DATE DESCRIPTION

2705 E. DAVIS RD.

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ENGINEERING

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102302

PROJECT #: 2319

EDINBURG TEXAS 78539

MECHANICAL SYMBOLS SH&TABBREVIATIONS

SHEET

EXTRUDED ALUMINUM FRAME; 0.070" BLADES w/ VINYL EDGE SEALS.

MECHANICAL FAN SCHEDULE													
		STATIC PRESSURE MOTOR DATA				ELECTRICAL DATA MAXIM							
TAG	FLOW RATE	EXTERNAL	LOAD	SPEED	MCA	МОСР		LOUDNESS	BASIS OF DESIGN		BASIS OF DESIGN		NOTES
	CFM	IN WG	HP	RPM	AMPS	AMPS	VOLTAGE	SONES	MANUFACTURER	MODEL OR SERIES			
EF-1	300	0.2	Η.	1500	1.0	15	120	4	L. COOK	GN-422	1-3		
EF-2	75	0.15	-	750	0.4	15	120	.9	L. COOK	GC-128	2-4		
VF-1	75	0.15	-	750	0.4	15	120	.9	L. COOK	GC-128	2,3,5		

. INTERLOCK WITH LIGHTS IN ROOM

PROVIDE FACTORY MOUNTED AND INSTALLED DISCONNECT.

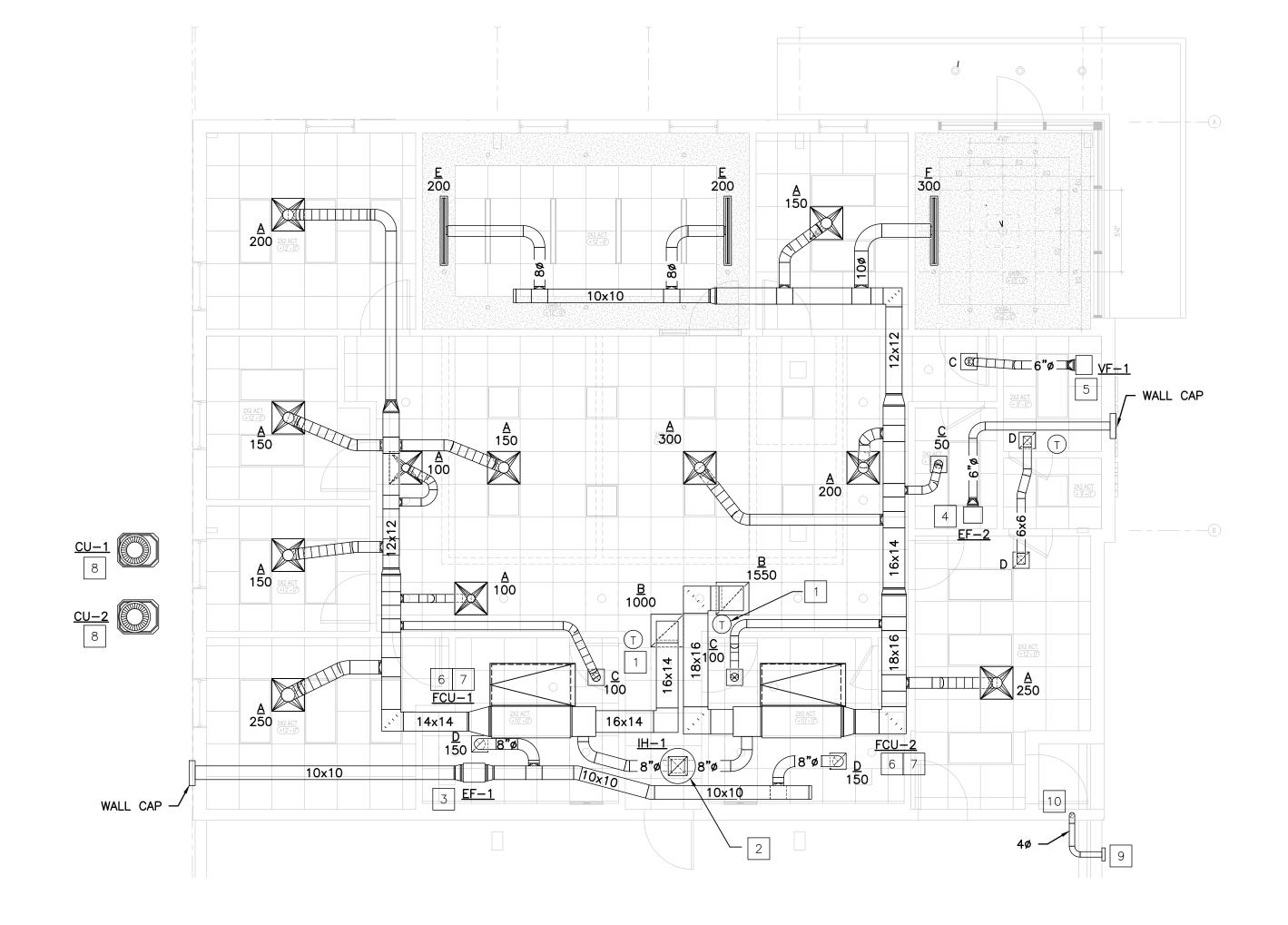
. PROVIDE ACCESS DOOR TO SERVICE UNIT IF IN HARD CEILING.

. PROVIDE MOTOR RATED SWITCH.

. INTERLOCK EXHAUST FAN TO T-STAT AND SET CUT-ON TEMP TO 80F

	MECHANICAL AIR TERMINAL DEVICES SCHEDULE									
TAC	G SIZE DESCRIPTION		CONSTRUCTION	BASIS	BASIS OF DESIGN					
TAG	SIZE	DESCRIPTION	FINISH	MANUFACTURER	MODEL OR SERIES	NOTES				
Α	24X24	LOUVERED FACE SUPPLY AIR DIFFUSER	ALUMINUM	TITUS	TMS-AA	1-5				
В	24X24	PERFORATED FACE RETURN AIR GRILLE	ALUMINUM	TITUS	PAR-A	1-5				
С	12X12	LOUVERED FACE SUPPLY AIR DIFFUSER	ALUMINUM	TITUS	TMS-AA	1-5				
D	12X12	PERFORATED FACE RETURN AIR GRILLE	ALUMINUM	TITUS	PAR-A	1-5				
Е	4' 8" Inlet	1" SLOT HIGHTHROW PATTERN LINEAR DIFFUSER 2- SLOT	ALUMINUM	TITUS	FL-10	ALL				
F	4' 8" Inlet	1.5" SLOT HIGHTHROW PATTERN LINEAR DIFFUSER 2- SLOT	ALUMINUM	TITUS	FL-15	ALL				

- 1. PROVIDE STANDARD WHITE FINISH FOR ALL AIR DEVICES UNLESS NOTED OTHERWISE ON PLAN.
- 2. PAINT ALL SURFACES VISIBLE THROUGH FACE OF RETURN AIR GRILLES FLAT BLACK. THIS SHALL
- INCLUDE PIPING, CONDUIT, DUCTWORK, AND STRUCTURAL MEMBERS.
- 3. PROVIDE FRAME FOR MOUNTING AIR DEVICE IN LAY-IN GRID CEILING UNLESS REFLECTED CEILING PLAN INDICATES HARD CEILING. IN AREAS WITH HARD CEILINGS, PROVIDE FRAMES FOR SURFACE MOUNTING.
- 4. UNLESS OTHERWISE NOTED, BRANCH DUCTS SERVING AIR DEVICES SHALL BE SAME SIZE AS NECK OF AIR DEVICE.
- 5. AIR DEVICE SHALL BE OF GALVANIZED FINISH WHEN INSTALLED ON EXPOSED DUCTWORK.
- 6. COORDINATE SLOT DIFFUSER FRAME/BORDER TYPE AND END BORDER CONFIGURATION WITH CEILING TYPE.
- FOR ROUND NECK DIFFUSERS:
- 6" DIA: 0-120 CFM
- 8" DIA: 125-220 CFM
- 10" DIA: 225-380 CFM
- 12" DIA: 385-600 CFM



MECHANICAL PLAN - OVERALL

MECHANICAL GENERAL NOTES:

- A. CONTRACTOR SHALL BALANCE EACH DEVICE WITH THE CFM SHOWN ON PLAN.
- B. NEW PIPING AND DUCTWORK SHOWN ON PLAN ARE SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK ROUTING. OFFSET AND RUN PIPING, DUCTWORK INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ANY EXTRA PIPING, DUCTWORK, FITTINGS, INSULATIONS AND OTHER ACCESSORIES IN ORDER TO COMPLETE THE INSTALLATION.
- C. COORDINATE LOCATIONS AND SIZES OF ROOF OPENINGS WITH OWNER AND STRUCTURE ENGINEERS.
- D. EQUIPMENT SIZES, DIMENSIONS AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE ACTUAL EQUIPMENT SELECTED VENDOR DRAWINGS BEFORE FABRICATION OF DUCTWORK, PIPING, ETC...
- E. DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE AIR STREAM DIMENSIONS.
- F. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL HVAC BASED ON ACTUAL EQUIPMENT SELECTED PRIOR TO INSTALLATION.
- G. CONTRACTOR SHALL COORDINATE EQUIPMENT WEIGHTS AND SUPPORTS BASED ON ACTUAL EQUIPMENT SELECTED.
- H. ALL EXPOSED DUCTWORK SHALL BE AS SHOWN, DOUBLE-WALL, INSULATED METAL, PRIMED FOR PAINTING, UNLESS OTHERWISE NOTED ON PLAN. ALL CONCEALED DUCTWORK SHALL BE INSULATED DUCT BOARD RECTANGULAR UNLESS ALLOWED IN WRITING BY THE ENGINEER OF RECORD. COORDINATE FINAL FINISH WITH ARCHITECT.
- I. COORDINATE WITH ALL TRADES FOR MATERIALS IN RATED AND PLENUM
- J. ALL EXHAUST FANS SCHEDULED TO BE AUTOMATICALLY CONTROLLED BY MECHANICAL AIR HANDLERS SHALL BE CONNECTED BY MEANS OF AN AUXILIARY RELAY. PROVIDE AUXILIARY RELAY AS NEEDED.
- K. ALL SOURCE OF MECHANICAL INTAKE SHALL MAINTAIN 10 LINEAR FEET SEPARATION BETWEEN ANY SOURCE OF EXHAUST. CONTRACTOR IS RESPONSIBLE TO ADJUST DUCT LENGTH AS NEEDED.

KEYED NOTES:

- 1. LOCATION OF DIGITAL THERMOSTAT CONTROL. PROVIDE LOCKABLE COVER.
- 2. PROVIDE ROOF MOUNTED INTAKE HOOD AS SPECIFIED ON SCHEDULE. VERIFY EXACT LOCATION OF STRUCTURAL MEMBERS PRIOR TO INSTALLATION.
- 3. PROVIDE ACCESS PANEL FOR CEILING MOUNTED EXHAUST FAN. INTERCONNECT EXHAUST FAN WITH LIGHTS IN THIS ROOM. REFER TO ELECTRICAL LIGHTING PLAN. FAN SHALL BE SUSPENDED FROM STRUCTURE ABOVE. VERIFY EXACT LOCATION OF STRUCTURAL MEMBERS PRIOR TO INSTALLATION. PROVIDE WALL CAP EQUAL TO LOREN COOK WCR6-ALUM AND INSTALL BOTTOM OF WALL CAP AT SAME HEIGHT AS EXHAUST FAN.
- 4. PROVIDE ACCESS PANEL FOR CEILING MOUNTED EXHAUST FAN. INTERCONNECT EXHAUST FAN WITH DEDICATED MOTOR RATED SWITCH. REFER TO ELECTRICAL LIGHTING PLAN. FAN SHALL BE SUSPENDED FROM STRUCTURE ABOVE. VERIFY EXACT LOCATION OF STRUCTURAL MEMBERS PRIOR TO INSTALLATION. PROVIDE WALL CAP EQUAL TO LOREN COOK WCR6-ALUM AND INSTALL BOTTOM OF WALL CAP AT SAME HEIGHT AS EXHAUST FAN.
- 5. PROVIDE ACCESS PANEL FOR CEILING MOUNTED EXHAUST FAN. INTERCONNECT EXHAUST FAN WITH T-STAT AND SET CUT-ON TEMP TO 80F. REFER TO ELECTRICAL LIGHTING PLAN. FAN SHALL BE SUSPENDED FROM STRUCTURE ABOVE. VERIFY EXACT LOCATION OF STRUCTURAL MEMBERS PRIOR TO INSTALLATION.
- 6. CONTRACTOR TO RUN CONDENSATE DRAIN TO MOP SINK IN JANITOR CLOSET.
- 7. COORDINATE FINAL LOCATION OF FCU'S WITH ARCHITECT AND OWNER. PROVIDE ACCESS PANEL AS REQUIRED, COORDINATE WITH ARCHITECT.
- 8. COORDINATE FINAL LOCATION OF CU'S WITH OWNER AND ARCHITECT.
- 9. PROVIDE DRYER EXHAUST VENT CAP EQUAL TO BROAN 642. COORDINATE EXACT PENETRATION LOCATION WITH ARCHITECT.

10. PROVIDE DRYERBOX MODEL 350 OR EQUAL. RUN 4"Ø FLEXIBLE THRU BOX AND THEN 4"Ø DUCT. COORDINATE EXACT LOCATION WITH ARCHITECT.

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THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RENE R. OLIVAREZ, P.E. 102302 TBPE REGISTRATION NO. 12179



PROJECT #: 2319

DRAWN BY: H.M. REVIEWED BY: R.O. ISSUED DATE: 2/15/24

REVISION / ADDENDA

NO. DATE DESCRIPTION

SHEET TITLE:

MECHANICAL

SHEET

MECHANICAL EQUIPMENT (ELECTRIC HEAT) SCHEDULE FLOW RATE | STATIC PRESSURE | ELECTRICAL DATA BASIS OF DESIGN ENT. AIR COIL SUPPLY OA MCA MOCP |SENSIBLE | TOTAL ___ VOLTAGE DB/WB DB/WB | STAGES | KW | VOLTAGE | MANUFACTURER | MODEL OR SERIES | HP | 28 30 208/3Ø L 58/56 FCU- 1 | 1200 | 200 | 33.9 | 42.9 | 80/69 7.2 | 208/3Ø | TEM4A0B42 15.5 SEER 133 4TTR6042J 305 | 40 | 45 | 208/3Ø | FCU- 2 | 1750 | 200 | 58/56 39.6 46.8 80/69 7.2 208/3Ø TRANE TEM5A0C60 15.5 SEER 143 30 | 45 | 208/3Ø TRANE 4TTR6060J 306

NOTE: 1. UNIT TO BE PROVIDED WITH ELECTRIC HEAT, FAN, DX COOLING COIL AND FILTER SECTION.

2. PROVIDE CONCRETE PAD AND HAIL GUARD.

EXISTING CONDITIONS & COORDINATION/RENOVATION:

- 1. COORDINATE FACILITY SCHEDULES AND PROJECT COMPLETION DATES WITH OWNER. PERFORM WORK IN CLOSE COORDINATION WITH OWNER. MAJORITY OF WORK SHALL BE PERFORMED WHEN SCHOOL IS UNOCCUPIED, SUCH AS WEEKENDS, AFTER HOURS, SPRING AND SUMMER BREAK OR AT OWNER APPROVED TIME.
- 2. COORDINATE WORK AMONG ALL DISCIPLINES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO DICTATE WHO MUST DO THE WORK. ALL WORK SHOWN IS THE RESPONSIBILITY OF THE (PRIME) CONTRACTOR.
- 3. WORK TO BE DONE UNDER ALLOWANCES BECOMES AN INTEGRAL PART OF THE WORK AND THE RESPONSIBILITY OF THE CONTRACTOR ONCE THE ALLOWANCE IS APPROVED.
- 4. COORDINATE WITH OWNER AND ENGINEER FOR ANY DISRUPTION IN UTILITY SERVICES, ESPECIALLY THOSE THAT MIGHT AFFECT OTHER BUILDINGS ON CAMPUS.
- 5. CONTRACTOR SHALL NOT PROCEED WITH ANY WORK INVOLVING A CHANGE IN PROJECT SCOPE OR COST WITHOUT FIRST HAVING OBTAINED ENGINEER'S APPROVAL IN WRITING. UNLESS ENGINEER HAS AGREED TO SUCH CHANGE PRIOR TO IT BEING DONE, AND HAS AGREED THAT AN INCREASE IN COST ASSOCIATED WITH SUCH CHANGE IS WARRANTED; CONTRACTOR WILL NOT BE REIMBURSED FOR SUCH CHANGE.
- 6. OWNER'S EQUIPMENT, MATERIALS, FURNISHINGS, CARPETS, AND INTERIOR SURFACES ARE TO BE PROTECTED FROM DUST ACCUMULATION AND DAMAGE, AND MUST BE THOROUGHLY CLEANED PRIOR TO SUBSTANTIAL COMPLETION. REFER TO SPECIFICATIONS SECTION 26 03 00 EXECUTION REQUIREMENTS FOR FURTHER DETAIL.
- 7. MAINTAIN PROJECT SITE FREE OF WASTE MATERIALS AND DEBRIS, AND CLEAN SITE AT END OF EACH WORK DAY TO GREATEST EXTENT POSSIBLE.
- 8. SUBMISSION OF PROPOSAL IS CONSIDERED AN ACKNOWLEDGEMENT THAT CONTRACTOR VISITED SITE, VERIFIED ALL EXISTING CONDITIONS, AND INCLUDED ANY MODIFICATIONS TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND OPERATIONAL SYSTEM.
- 9. TIME OR MONEY ALLOWANCES WILL NOT BE MADE TO ACCOMMODATE CONDITIONS THAT COULD HAVE BEEN VERIFIED PRIOR TO SUBMITTING PROPOSAL.
- 10. DRAWINGS SHOWING ALL EQUIPMENT LOCATIONS, DUCT AND PIPE SIZES, ELEVATIONS, AND ELECTRICAL INFORMATION HAVE BEEN RECREATED USING DRAWINGS AND SITE SURVEYS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SITE CONDITIONS IN ORDER TO MAKE ANY NECESSARY ADJUSTMENTS, PRIOR TO ORDERING MATERIALS OR COMMENCING INSTALLATION. CHANGE ORDERS WILL NOT BE APPROVED FOR DIMENSIONAL VERIFICATIONS REQUIRING MINOR ADJUSTMENTS NEEDED TO COMPLETE INSTALLATION.
- 11. PROVIDE OWNER WITH MINIMUM 10 DAYS ADVANCE NOTICE OF INTENT TO PERFORM ANY WORK WHICH WILL REQUIRE ELECTRICAL SERVICE TO BE SHUT DOWN.
- 19. PRIOR TO DEMOLITION WORK, SUBMIT A DETAILED DEMOLITION AND CONSTRUCTION SCHEDULE TO OWNER AND ENGINEER. DO NOT PROCEED WITH WORK UNTIL PROPOSED SCHEDULE IS APPROVED BY ALL PARTIES. PROVIDE OWNER WITH MINIMUM 10 DAYS ADVANCE NOTICE OF INTENT TO PERFORM ANY WORK WHICH WILL REQUIRE ELECTRICAL SERVICE TO BE SHUT DOWN.
- 20. PROVIDE SHOP DRAWINGS TO COORDINATE EXISTING AND NEW WORK.
- 21. NOTIFY OWNER AND ENGINEER IF ANY MATERIALS SUSPECTED OF CONTAINING ASBESTOS ARE FOUND AND STOP WORK IMMEDIATELY.
- 22. IT IS CONTRACTOR'S RESPONSIBILITY TO REMOVE AND DISPOSE OF ALL ITEMS INDICATED TO BE REMOVED. ONLY EXPRESSLY DESIGNATED ITEMS SHALL BE TURNED OVER TO OWNER.
- 23. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL OF ALL MATERIAL REMOVED. CONTRACTOR SHALL DISPOSE OF ALL MATERIALS WHICH THE OWNER DOES NOT WANT.
- 24. REMOVE ALL EQUIPMENT, MATERIALS, CONTROL DEVICES, BOXES, POWER AND CONTROL WIRING, SAFETY SWITCHES, TUBING, ELECTRICAL CONDUIT, PIPING, SENSORS, ELECTRICAL DISCONNECTS, SUPPORTING DEVICES AND STRUCTURES, AND ALL RELATED AUXILIARY ITEMS ASSOCIATED WITH EQUIPMENT AND MATERIALS WHICH WILL NO LONGER BE USED AFTER THE PROJECT IS COMPLETE.
- 25. CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY DISTURBED SURFACE TO ITS ORIGINAL CONDITION. ANY ROAD, TRAFFIC, OR OTHER PAINTED OR ERECTED SIGNS DAMAGED AS A RESULT OF WORK PERFORMED IN THOSE AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
- 26. CUTTING AND PATCHING OF WALLS DAMAGED IN THE REMOVAL OF ITEMS SHALL BE DONE, WHETHER OR NOT DRAWINGS SPECIFICALLY CALL FOR SUCH REPAIRS.
- 27. FIELD-VERIFY EXACT LOCATIONS OF ALL EXISTING AND NEW UTILITIES, PRIOR TO CONDUCTING ANY WORK. COORDINATE WITH OWNERS PERSONNEL AND UTILITY COMPANIES. ALL EXPENSES INCURRED TO REPAIR DAMAGE CAUSED TO KNOWN UTILITIES AS A RESULT OF CONTRACTOR'S WORK SHALL BE BORNE BY THE CONTRACTOR. OWNER WILL NOT BE RESPONSIBLE FOR SUCH COSTS.
- 28. COORDINATE DEMOLITION WORK WITH NEW AND TEMPORARY CONSTRUCTION WITH MINIMAL INTERRUPTION OF POWER, AND OTHER UTILITIES. COORDINATE WITH OWNER AND ENGINEER FOR ANY DISRUPTION IN UTILITY SERVICES, PARTICULARLY THOSE THAT MIGHT AFFECT OCCUPANCY.

EQUIPMENT:

- 1. EQUIPMENT INSPECTION:
- a. FIELD VERIFY ALL CONDITIONS AND MEASURE DIMENSIONS WITHIN THE BUILDING PRIOR TO ORDERING EQUIPMENT AND/OR PROCEEDING WITH INSTALLATION.
- b. ALL EQUIPMENT SHALL BE FACTORY TESTED, AND CONTRACTOR SHALL VERIFY EQUIPMENT CONDITION PRIOR TO INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR FOLIPMENT DAMAGED DURING MOVING AND INSTALLATION
- RESPONSIBLE FOR EQUIPMENT DAMAGED DURING MOVING AND INSTALLATION.

 c. EQUIPMENT FOUND DEFECTIVE PRIOR TO FINAL ACCEPTANCE SHALL BE REPLACED AT NO COST TO OWNER.
- d. COORDINATE CONCRETE HOUSEKEEPING PAD EXTENSIONS AS NEEDED.
- 2. EQUIPMENT ACCESS:
- a. PROVIDE MANUFACTURER RECOMMENDED AND CODE ENFORCED CLEARANCES AROUND EQUIPMENT. MAINTAIN 36" CLEAR IN FRONT OF CONTROLLER, ELECTRIC HEATERS, ETC.
- b. INSTALL ALL VALVES CONTROLS, DAMPERS, FANS, ETC. IN ACCESSIBLE LOCATIONS. PROVIDE ADEQUATELY SIZED ACCESS DOORS WHERE REQUIRED.
- 3. EQUIPMENT INSTALLATION:
- a. PROVIDE SPRING HANGER TYPE VIBRATION ISOLATORS TO SUPPORT POWERED VIBRATING EQUIPMENT. PROVIDE FLEXIBLE DUCT CONNECTORS.
 b. COMPLETELY WEATHERPROOF ALL EQUIPMENT, DUCTS, PIPES AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE THE BUILDING, CHILLER YARD AREA, OR OTHERWISE EXPOSED TO WEATHER. AS A MINIMUM, WEATHERPROOFING SHALL INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING: JACKETING FOR ALL PIPING INSULATION, VALVES AND ACCESSORIES RATED FOR OUTDOOR SERVICE, ELECTRICAL ENCLOSURES NEMA 4X—SS.
- PROVIDE ELECTRICAL HEAT TRACING FOR UTILITIES SUSCEPTIBLE TO FREEZING.
 c. AFFIX ID TAGS TO ALL MECHANICAL EQUIPMENT FOR SPECIFICATIONS.
- 4. ELECTRICAL:
- a. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ELECTRICAL CONTRACTOR REGARDING EQUIPMENT SIZES AND TYPES OF ELECTRICAL INTERFACE EQUIPMENT REQUIRED.
- b. DUE TO VARIATIONS IN EQUIPMENT CHARACTERISTICS BY DIFFERENT EQUIPMENT SUPPLIERS, MECHANICAL EQUIPMENT ULTIMATELY PROVIDED MAY DIFFER IN HORSEPOWER OR AMPERAGE REQUIREMENTS FROM THAT SPECIFIED IN THESE DRAWINGS. COORDINATE WITH GENERAL CONTRACTOR PRIOR TO BIDDING, AND PRIOR TO SUBMITTALS AND ORDERING EQUIPMENT, TO ENSURE THAT EQUIPMENT ELECTRICAL REQUIREMENTS ARE CONVEYED TO ELECTRICAL CONTRACTOR. IT IS SOLELY CONTRACTOR'S RESPONSIBILITY TO ENSURE COMPATIBILITY ISSUES ARE COORDINATED.

ELECTRICAL:

- 1. ALL ELECTRICAL WORK SHALL BE UNDER THE MASTER ELECTRICIAN WHO PULLED THE PERMIT AND ITS JOURNEYMAN ELECTRICIANS.
- 2. PERFORM ALL WORK PER ADOPTED N.E.C. AND APPLICABLE STATE STANDARDS, UNLESS DRAWINGS OR SPECIFICATIONS HAVE MORE STRINGENT REQUIREMENTS.
- 3. MINIMUM CIRCUIT SIZE IS 2 #12 AND 1 #12 GROUND IN 3/4" CONDUIT FOR INDIVIDUAL CIRCUITS, 3/4" CONDUIT FOR MULTIPLE CIRCUITS, WITH THE EXCEPTION THAT ANY CIRCUIT LONGER THAN 100 FEET SHALL BE MINIMUM #10 AWG WITH #10 GROUND WIRE. CIRCUIT LONGER THAN 200 FEET SHALL BE MINIMUM #8 AWG WITH #10 GROUND WIRE MINIMUM. ALL CONDUCTORS SHALL BE 75 DEGREE (MINIMUM) COPPER THHN, COLOR CODED AS PER NEC AND LOCAL AMENDMENTS WITH SIZE, TEMPERATURE, AND VOLTAGE PERMANENTLY PRINTED ON THE JACKET. ALL JOINTS SHALL BE MADE UP USING SELF LOCKING, TWIST-ON, COLOR CODED, SQUARE WIRE SPRING GRAB, LONG SKIRT, WIRE CONNECTORS WITH SWEPT WINGS.
- 4. ALL EXISTING ID NAMETAGS AND CIRCUIT IDENTIFICATION MUST BE REVISED TO REFLECT CURRENT CONDITIONS FOR ALL EQUIPMENT WHICH IS NEW, REPLACED, OR DEMOLISHED. REMOVE ID NAMETAGS FOR DEMOLISHED EQUIPMENT. REPLACE EXISTING NAMETAGS WITH NEW FOR REPLACED EQUIPMENT, IF REPLACEMENT EQUIPMENT HAS DIFFERENT NAME. PROVIDE NEW NAMETAGS FOR ALL NEW EQUIPMENT. ALL CIRCUIT BREAKER DIRECTORIES FOR PANELS IN WHICH NEW WORK TAKES PLACE ARE TO BE REPLACED WITH NEW DIRECTORIES WHICH LIST EXISTING CIRCUITS AND NEW. ALL UNUSED CIRCUITS ARE TO BE MARKED AS 'SPARE' IN THE DIRECTORIES. DIRECTORIES ARE TO BE COMPUTER GENERATED; NO HAND WRITTEN DIRECTORIES ARE ACCEPTABLE.
- 5. HAND-WRITTEN CIRCUIT BREAKER DIRECTORIES WILL NOT BE ACCEPTED. DIRECTORIES MUST BE COMPUTER GENERATED AND PRINTED TO REFLECT FINAL INSTALLED CONDITIONS.
- 6. MARK ALL J-BOXES WITH INDELIBLE INK, INDICATING POWER CIRCUITRY INFORMATION. LABEL ALL EQUIPMENT ITEMS PER SPECIFICATIONS.
- 7. ALL EXTERIOR RACEWAYS ABOVE GROUND SHALL BE RIGID GALVANIZED.
- 8. UNDER NO CIRCUMSTANCES SHALL MORE THAN THREE CIRCUITS SHARE THE SAME NEUTRAL, AND SUCH CIRCUITS MUST BE SEPARATE PHASE.
- 9. SINCE ELECTRICAL CHARACTERISTIC OF EQUIPMENT (SUCH AS HORSEPOWER, KW, AMPERAGE, VOLTAGE, ETC.) SUBMITTED MAY DIFFER FROM THOSE SPECIFIED IN DRAWINGS, CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH MECHANICAL AND OTHER CONTRACTORS TO ENSURE COMPATIBILITY BETWEEN ELECTRICAL AND MECHANICAL EQUIPMENT SIZES AND TYPES OF ELECTRICAL INTERFACE EQUIPMENT REQUIRED.
- 10. USE LONG-SWEEPS FOR ALL CHANGES IN DIRECTION ON CONDUIT RUNS.
- 11. ALL INTERIOR RACEWAYS SHALL BE EMT.
- 12. FIELD VERIFY PROJECT SITE EXISTING CONDITIONS AND ELEVATIONS PRIOR TO BEGINNING ANY WORK.
- 13. PHASING AND SEQUENCE OF CONSTRUCTION SHALL BE PER DRAWINGS AND SPECIFICATIONS.
- 14. ALL MATERIALS AND LABOR, WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT, WHICH ARE NECESSARY FOR THE PROPER INSTALLATION AND FUNCTION OF THE SYSTEM SHALL BE FURNISHED BY THIS CONTRACTOR. INCLUDE ALL COSTS OF CHANGES, IF/AS REQUIRED IN BID PROPOSAL.
- 15. ELECTRICAL WIRING SHALL NOT BE SPLICED BELOW GRADE.
- 16. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES ASSOCIATED WITH PROJECT, INCLUDING FEES FOR INSPECTIONS, APPLICATIONS, AND PROVISION OF NEW SERVICES.
- 17. CONTRACTOR WHO WILL ACTUALLY PERFORM WORK MUST APPLY FOR ALL REQUIRED PERMITS.
- 18. NOTIFY ENGINEER OF ANY ASPECTS OF DESIGN WHICH ARE THOUGHT TO BE IN NONCOMPLIANCE WITH APPLICABLE CODES.
- 19. COORDINATE ALL WORK WITH OTHER TRADES; COORDINATE SCHEDULE OF WORK WITH ALL SUB-CONTRACTORS TO ACHIEVE SMOOTH FLOW OF CONSTRUCTION.
- 20. SEAL AROUND ELECTRICAL RACEWAYS AT ALL WALLS AND WALL LOUVER PENETRATIONS WITH FIREPROOF CAULKING. RE: SPECS. PROVIDE FLASHING AROUND PENETRATION, BOTH INSIDE AND OUTSIDE, TO PROVIDE FINISHED LOOK.
- 21. CONTRACTOR SHALL REVIEW COMPLETE DOCUMENTS PRIOR TO SUBMITTAL OF PROPOSAL TO GAIN COMPLETE UNDERSTANDING OF PROJECT SCOPE, WORK BY OTHERS, AND ELECTRICAL WORK ASSOCIATED WITH OTHER DISCIPLINES.
- 22. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCE AROUND ALL EQUIPMENT.
- 23. PLACE ID TAGS TO ALL DIVISION 26 EQUIPMENT.
- 24. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH MECHANICAL AND PLUMBING CONTRACTOR REGARDING EQUIPMENT SIZES AND TYPES OF ELECTRICAL INTERFACE EQUIPMENT REQUIRED.
- 25. FIELD VERIFY ALL CONDITIONS AND MEASURE DIMENSIONS WITHIN THE BUILDING PRIOR TO ORDERING EQUIPMENT AND/OR PROCEEDING WITH INSTALLATION.
- 26. ALL EQUIPMENT SHALL BE FACTORY TESTED, AND CONTRACTOR SHALL VERIFY THEIR CONDITION PRIOR TO INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT DAMAGED DURING MOVING AND INSTALLATION.
- 27. EQUIPMENT FOUND DEFECTIVE PRIOR TO FINAL ACCEPTANCE SHALL BE REPLACED AT NO COST TO OWNER.
- 28. SLEEVE ALL EXTERIOR WALL PENETRATIONS.
- 29. MINIMUM CIRCUIT SIZE IS 2 #12 AND 1 #12 GROUND IN 3/4" CONDUIT. MAXIMUM FIXTURE WHIP LENGTH FROM ANY J-BOX 6 FEET. LIGHTING CIRCUITS JOINTS SHALL BE MADE UP IN OVERHEAD J-BOXES SECURED TO STRUCTURE WITH LIGHTING WHIPS FROM THE J-BOXES. FIXTURES DESIGNED TO BE QUICK-CLIPPED TOGETHER SHALL BE CONNECTED AS PER MANUFACTURER.
- 30. COORDINATE LIGHT LOCATIONS WITH OTHER CEILING ITEMS OR JOIST ITEMS PRIOR TO INSTALLATION. LIGHT LOCATIONS TAKE PRECEDENCE OVER AIR DEVICES.
- 31. PROVIDE SECONDARY SUPPORT WIRES FROM ALL FOUR (4) CORNERS OF THE LIGHTING FIXTURES TO THE STRUCTURE ABOVE.
 32. ALL GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 250 OF THE CURRENT NEC WITH ALL CITY AMENDMENTS.
- 33. THE PERIMETER GROUND LOOP CONDUCTOR SHALL BE MINIMUM 4/O STRANDED BARE COPPER, BURIED NOT LESS THAN 24 INCHES BELOW GRADE AND 36 INCHES FROM THE BUILDING. IT SHALL BE EXOTHERMICALLY WELDED (CAD) TO COLUMN GROUNDS AND PERIMETER GROUND RODS.
- 34. PERIMETER GROUND RODS SHALL BE MINIMUM 3/4 INCH AND 8 FOOT LONG COPPER OR COPPER CLAD, BURIED VERTICALLY TO A MINIMUM DEPTH OF 8 FOOT 6 INCH BELOW GRADE. DRIVE ALL GROUND RODS INTO EXPOSED EARTH. IF DUE TO CONSTRUCTION, THE EARTH HAS BEEN DISTURBED AT THE GROUND ROD POINT, COMPACT THE LOCATION AND INSTALL GROUND ROD.
- 35. EXPOSED GROUNDING CONDUCTORS SHALL BE SUPPORTED BY MECHANICAL MEANS AND PROPERLY PROTECTED FROM DAMAGE. ALL GROUNDING CONDUCTORS SHALL BE SLEEVED THROUGH BUILDING WALLS.
- 36. BOND THE GROUNDING SYSTEM TO THE WATER PIPE SYSTEM. IF THE WATER PIPING IS SUSPENDED BELOW THE STRUCTURE, BOND THE GROUND TO THE WATER PIPE AT THE GRADE POINT.
- 37. BOND THE GROUND LOOP TO THE BUILDING COLUMN CASINGS. EXOTHERMICALLY WELD THE CONNECTIONS. IF THE COLUMN STEEL DOES NOT PENETRATE THE EARTH MORE THAN 4 FEET, PROVIDE COPPER BONDING JUMPER FROM THE CASING TO THE COLUMN.
- 38. BOND BUILDING GROUND SYSTEM TO ALL BUILDING STEEL, TO INCLUDE BAR JOISTS OFF MASONRY WALLS. MECHANICAL BONDING CLAMPS ARE PERMITTED. ALL CONDUCTORS ON BEAMS SHALL BE SECURED 48" INTERVALS WITH MALLEABLE CABLE STRAPS. SAND AND CLEAN ALL BOLT—ON CONNECTIONS.
- 39. PROVIDE GROUNDING SYSTEM PER NEC 250.32 FOR ALL STANDALONE STRUCTURES.

CODES AND ORDINANCES:

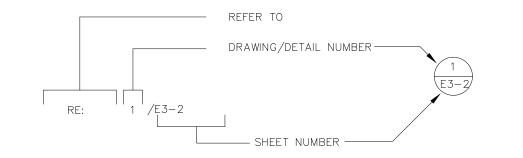
- a. UNLESS DRAWINGS OR SPECIFICATIONS HAVE MORE STRINGENT REQUIREMENTS, PERFORM ALL WORK PER APPLICABLE VERSION OF INTERNATIONAL BUILDING CODES, AND LOCAL CODES AND ORDINANCES.
 b. PRIOR TO SUBMITTING PROPOSAL, NOTIFY ENGINEER OF ANY ASPECTS OF DESIGN WHICH ARE THOUGHT TO BE IN NONCOMPLIANCE WITH APPLICABLE CODES.
- PERMITS:

 a. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES ASSOCIATED WITH PROJECT, INCLUDING FEES FOR INSPECTIONS, APPLICATIONS, AND PROVISION OF NEW SERVICES.
 b. CONTRACTOR WHO WILL ACTUALLY PERFORM WORK MUST APPLY FOR ALL REQUIRED PERMITS.
- 3. APPROVALS AND INSPECTIONS:
- a. OBTAIN APPROVAL FROM CITY FIRE DEPARTMENT AND BUILDING AND SAFETY DEPARTMENT PRIOR TO INSTALLATION OF ANY FIRE RELATED ITEMS.
- b. COORDINATE PRESSURE TESTS, INSPECTIONS AND APPROVAL FOR ALL SYSTEMS WITH PERMITTING OFFICER, OWNER AND ENGINEER. c. FOR ALL EQUIPMENT INSTALLED OUTDOORS, PROVIDE WIND RESTRAINTS TO MEET IBC REQUIREMENTS.

ELECTRICAL LEGEND:

	LEGEND:		
	EXISTING EQUIP. TO REMAIN		DISCONNECT SWITCH - NON FUSED
[]]]]]]	EXISTING EQUIP. TO BE DEMOLISHED		DISCONNECT SWITCH - FUSED
	NEW EQUIPMENT		COMBINATION MOTOR STARTER/DISCONNECT SWITCH
	EXISTING CIRCUIT	(5)	SINGLE OR THREE PHASE MOTOR NUMBER INDICATES HORSPOWER
	NEW CIRCUIT (ABOVE GROUND)	VFD	VARIABLE FREQUENCY DRIVE PROVIDED BY DIVISION 15 AND INSTALLED BY DIVISION 16.
	NEW CIRCUIT (UNDERGROUND)	(S)VC	CEILING MOUNTED SPEAKER. "VC" INDICATES VOLUME CONTROL ON SPEAKER
	ELECTRICAL PANEL	F	AUDIO VISUAL FIRE ALARM HORN-CEILING MOUNTED
	SWITCHBOARD, MAIN DISTRIBUTION PANEL OR MOTOR CONTROL CENTER	\triangleleft	DATA WALL OUTLET.
	HOMERUN TO PANEL	FACP	FIRE ALARM CONTROL PANEL
#	FOURPLEX WALL RECEPTACLE. NEMA 5—20R, 20A,125V.	F	AUDIO VISUAL FIRE ALARM HORN +80" AFF
0	DUPLEX WALL RECEPTACLE.		8" X 4' LINEAR LED LIGHT FIXTURE.
J	JUNCTION BOX (SQUARE)		2' X 4' LED LIGHT FIXTURE.
P	INGROUND PULL BOX (SQUARE)	⊗ —	LIGHT POLE WITH LED LIGHT FIXTURE
•	POINT OF CONNECTION.	0	PUSHBUTTON SWITCH WITH TIMER

NOT ALL SYMBOLS SHOWN ON THIS SYMBOL LIST ARE USED IN THE CONTRACT DOCUMENTS.



ABBREVIATIONS:

Д	AMPERES	MCC	MOTOR CONTROL CENTER
ABV	ABOVE	MD	MOTORIZED DAMPER
ACC	AIR COOLED CHILLER	MDP	MAIN DISTRIBUTION PANEL
ACCU	AIR COOLED CONDENSING UNIT	MFR	MANUFACTURER
AFC	ABOVE FINISHED CEILING	MLO	MAIN LUGS ONLY
4FF	ABOVE FINISHED FLOOR	MSB	MAIN SWITCHBOARD
AFG	ABOVE FINISHED GRADE	N3R	NEMA 3R ENCLOSURE
AHU	AIR HANDLING UNIT	N4X	NEMA 4X ENCLOSURE
AIC AL	AMPERE INTERRUPT CAPACITY ALUMINUM	NEC	NATIONAL ELECTRICAL CODE
4P	ACCESS PANEL, ALARM PANEL	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
ATS AUX.	AUTOMATIC TRANSFER SWITCH AUXILIARY	NF	NON-FUSED
AWG.	AMERICAN WIRE GAUGE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
BAS	BUILDING AUTOMATION SYSTEM	NFS	NON-FUSED SWITCH
3KR	BREAKER	NTS	NOT TO SCALE
BLDG.	BUILDING	OAU	OUTSIDE AIR UNIT
Э.	CONDUIT	Р	POLE, PUMP
CLG	CEILING	PH	PHASE
CU	COPPER	PNL	PANEL
dB	DECIBEL	POS	POINT OF SALE
OC .	DIRECT CURRENT	PP	POWER POLE
DDC	DIRECT DIGITAL CONTROL	PR PWR	PAIR POWER
DIA	DIAMETER	RA	RETURN AIR
DISC	DISCONNECT	RE	REFERENCE, REFER
)P	DISTRIBUTION PANEL	RGS	RIGID GALVANIZED STEEL
DWG	DRAWING	RTU	ROOFTOP UNIT
E)	EXISTING	SECT	SECTION
EMS	ENERGY MANAGEMENT SYSTEM	SPKR	SPEAKER
EUH	ELECTRIC UNIT HEATER	SS	STAINLESS STEEL
EWH	ELECTRIC WATER HEATER	SW	SWITCH
F	EXHAUST FAN	SWBD	SWITCHBOARD
ACP	FIRE ALARM CONTROL PANEL	TC	TEMPERATURE CONTROL
CU	FAN COIL UNIT	TEL	TELEPHONE
βA	GAUGE	SA	SUPPLY AIR
BALV	GALVANIZED	TAB	TEST AND BALANCE
GC	GENERAL CONTRACTOR	TSTAT	THERMOSTAT
FCI ID	GROUND FAULT CIRCUIT INTERRUPTER ELECTRIC HAND DRYER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
1D 1P	HORSEPOWER	TYP	TYPICAL
)	INSIDE DIAMETER	UG	UNDERGROUND
V	INCH	V	VOLT
IB	JUNCTION BOX	VAV	VARIABLE AIR VOLUME
(VA	KILOVOLT- AMPS	VFD	VARIABLE FREQUENCY DRIVE
:W	KILOWATT	WP	WEATHERPROOF
(WH	KILOWATT-HOUR	XFMR	TRANSFORMER
1CB	MAIN CIRCUIT BREAKER		

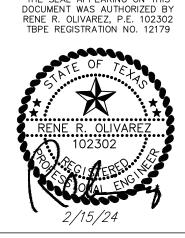
2705 E. DAVIS RD.
EDINBURG TEXAS 78539

PH. 956.513.1849

TEUCTION MANAGEN

SINEERING & CONSTRUCTION





THE SEAL APPEARING ON THIS

PROJECT #: 2319

OFFICE AND VAREHOUSE

DRAWN BY: H.M.

REVIEWED BY: R.O.

ISSUED DATE: 2/15/24

REVISION / ADDENDA

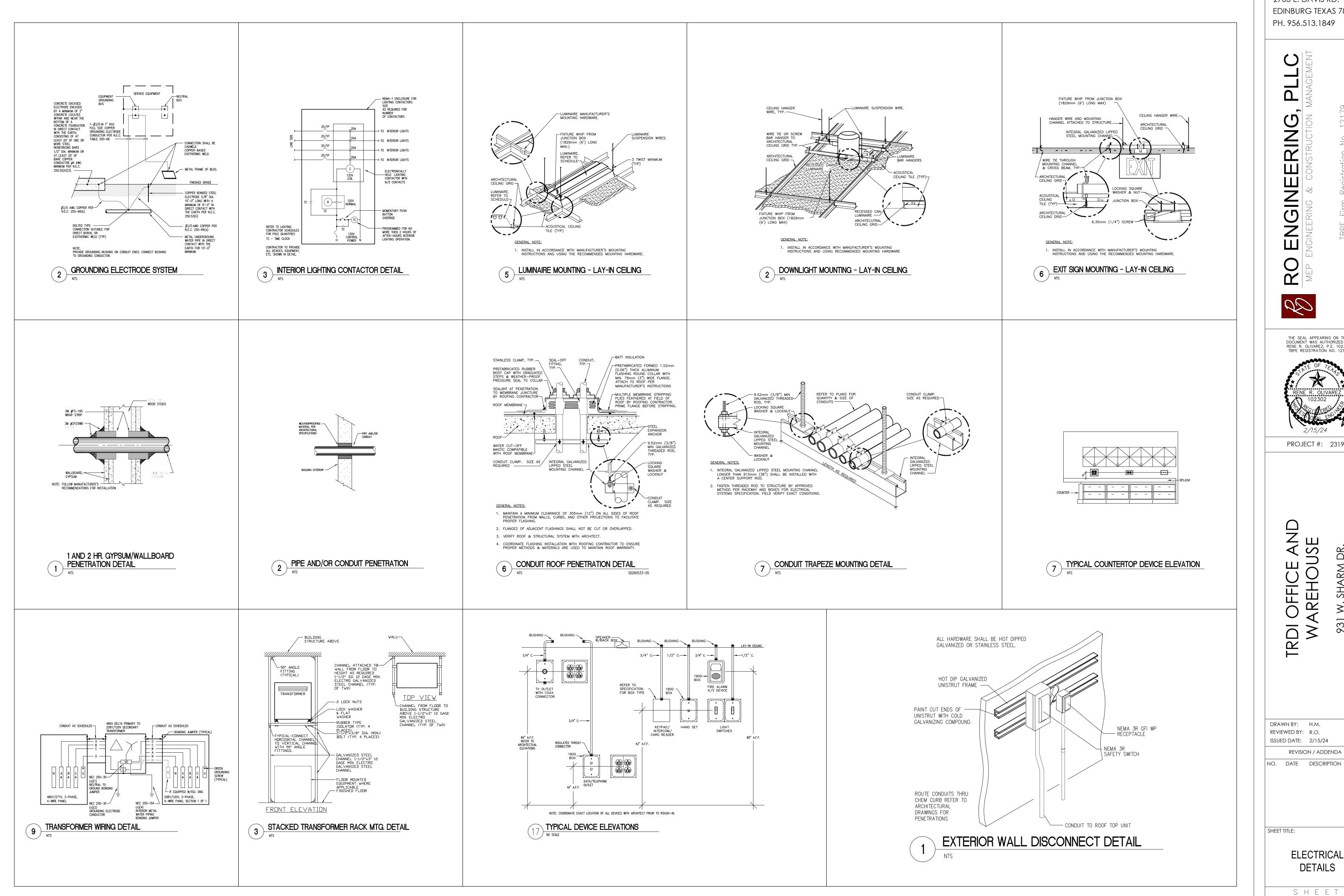
NO. DATE DESCRIPTION

ELECTRICAL SYMBOLS

& ABBREVIATIONS

AND GENERAL NOTES

SHEET



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NGINEERING

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RENE R. OLIVAREZ, P.E. 102302 TBPE REGISTRATION NO. 12179

PROJECT #: 2319

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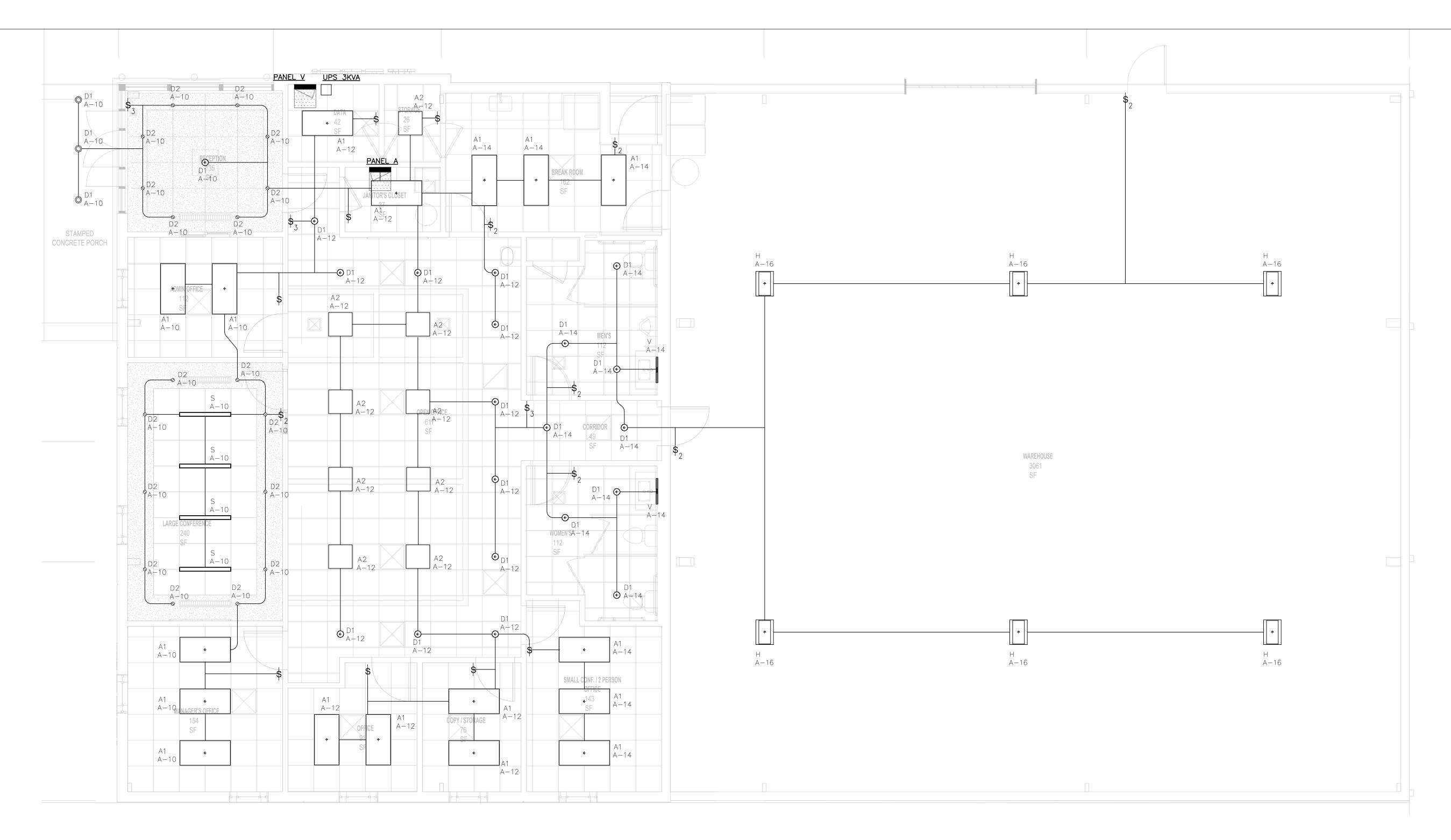
REVISION / ADDENDA

ELECTRICAL

DETAILS

SHEET

E0.1





		LIGH	IT FIXTUR	E S	CHE	DULE			
TYPE	MANUF.	CATALOG №.	MOUNTING	LA #	MPS TYPE	VOLTAGE	INPUT W	REMARKS	NOTES
A1	SIGNIFY	2FGXG54L840-4-RS-UNV	CELING		LED	120/277V	40.6W	VERIFY COLOR WITH OWNER. CONNECT TO OCCUPANCY SENSOR.	1
A2	SIGNIFY	2FGXG48L840-4-RS-UNV	CELING		LED	120/277V	35.6W	VERIFY COLOR WITH OWNER. CONNECT TO OCCUPANCY SENSOR.	1
D1	SIGNIFY	6RN/P6RDL10940WCLZ10U	CELING		LED	120/277V	28.3W	VERIFY COLOR WITH OWNER. CONNECT TO OCCUPANCY SENSOR.	1
D2	NLSTR	NFLIN-R610/30WW	CELING		LED	120/277V	24 W	VERIFY COLOR WITH OWNER. CONNECT TO OCCUPANCY SENSOR.	1
Н	SIGNIFY	FBY18L840-UNV-LFA	PENDANT		LED	120/277V	132.6W	VERIFY COLOR WITH OWNER. CONNECT TO OCCUPANCY SENSOR.	1
S	SIGNIFY	FSS330L840-UNV-DIM	CELING		LED	120/277V	23.9W	VERIFY COLOR WITH OWNER. CONNECT TO OCCUPANCY SENSOR.	1
V	BROWNLEE	5020-24-CH-H16-WHA-40K	WALL		LED	120/277V	16.7W	VERIFY COLOR WITH OWNER. CONNECT TO OCCUPANCY SENSOR.	1

ELECTRICAL KEYED NOTES:

1) PROVIDE NEW LIGHTING AS PER LIGHT FIXTURE SCHEDULE AND CONNECT TO CONTROLS AS SHOWN IN ACCORDANCE TO LEGEND.

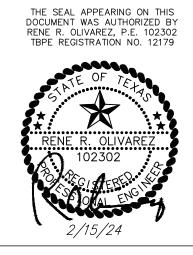
GENERAL NOTES LIGHTING SHEETS:

- 1. WHEN LOCATING SYSTEMS NEXT TO DOORS, LOCATE 8 INCHES OFF DOOR JAMB TO CENTER OF DEVICE. WHEN MULTIPLE DEVICES ARE TOGETHER, STACK BUT NO MORE THAN 72 INCHES AFF. COORDINATE SWITCH LOCATIONS IN ROOMS WITH ARCHITECT AND OTHER DEVICES (THERMOSTATS, FIRE ALARM, AND CALL BUTTONS).
- 2. SWITCHES SHALL BE PROVIDED FOR EACH ROOM. SWITCH FIXTURES ACCORDING TO THE FOLLOWING: A) SWITCH DOWNLIGHTS ABOVE COUNTERS SEPARATE FROM REMAINDER OF ROOM. B) PROVIDE SEPARATE SWITCHING FOR CORRIDORS INDEPENDENT OF ROOMS.
- 3. MINIMUM CIRCUIT SIZE IS 2-#12 AND 1-#12 GROUND IN 3/4"CONDUIT. MAXIMUM FIXTURE WHIP LENGTH FROM ANY J-BOX 6 FEET. LIGHTING CIRCUITS JOINTS SHALL BE MADE UP IN OVERHEAD J-BOXES SECURED TO STRUCTURE WITH LIGHTING WHIPS FROM THE J-BOXES. FIXTURES DESIGNED TO BE QUICK-CLIPPED TOGETHER SHALL BE CONNECTED AS PER MANUFACTURER.
- 4. COORDINATE LIGHT LOCATIONS WITH OTHER CEILING ITEMS OR JOIST ITEMS PRIOR TO INSTALLATION. LIGHT LOCATIONS TAKE PRECEDENCE OVER AIR DEVICES.
- 5. PROVIDE SECONDARY SUPPORT WIRES FROM ALL FOUR (4) CORNERS OF THE LAY-IN FIXTURES TO THE STRUCTURE ABOVE. DO NOT SUPPORT FIXTURES FROM CEILING GRID WIRE SUPPORTS, PIPING, CONDUIT, SIDE WALLS, OR MECHANICAL EQUIPMENT. CEILING SPECIFICATIONS DO NOT SUPERCEDE THIS REQUIREMENT.
- 6. FIXTURES WITH "E" SUFFIX HAVE BATTERY BACK-UPS.
- 7. FIRESTOP ALL CONDUIT PENETRATIONS IN RATED WALLS. SEE ARCHITECTURAL FOR WALL RATINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO SHEET ROCK AND REPAIR. PROVIDE FIRE RATED SLEEVES IN ALL FLOOR PENETRATIONS.
- 8. CONTRACTOR TO VERIFY FIXTURE VOLTAGE PRIOR TO INSTALLING ANY RELOCATED FIXTURE. COORDINATE WITH RCP FOR FIXTURE LOCATIONS.
- 9. PROVIDE AN EXTRA UNSWITCHED HOT LEG FOR EXIT LIGHTS.
- 10. PROVIDE CONTACTORS ADJACENT TO NEW PANELS WITH EXTERIOR LIGHTING CIRCUITS. THE CONTACTORS SHALL BE 4 POLE FOR CONTROL OF EXTERIOR LIGHTING AS NOTED. PROVIDE 120V FROM NEW PANEL SPARE 20A/1P C.B. ALL EXTERIOR LIGHTS SHALL BE ROUTED THROUGH LIGHTING CONTACTOR FOR PHOTOCELL ON/TIMER OFF OPERATION.
- 11. PROVIDE AN EXTRA UNSWITCHED HOT LEG FOR EXITS LIGHTS, NIGHTLIGHTS AND EMERGENCY LIGHTS. PROVIDE THE EXTRA UNSWITCHED HOT LEG FROM THE LINE SIDE OF THE CONTACTOR TO EACH EXIT AND EMERGENCY LIGHT AS INDICATED ON DRAWINGS. DO NOT ROUTE A SWITCHED (EITHER BY SWITCH OR CONTACTOR) HOT LEG TO EMERGENCY LIGHTS AND BALLASTS AS THIS WILL NOT ALLOW FOR PROPER OPERATION OF THE EMERGENCY/EXIT FIXTURE.
- 12. PROVIDE LUTRON GRAFIK EYE "GRX-XGLC" LOCKING COVER FOR SWITCHES IN HALLWAYS AND STUDENT RESTROOMS.
- 13. COORDINATE MOUNTING HEIGHT OF LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS.

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ENGINEERING





PROJECT #: 2319

DRAWN BY: H.M. REVIEWED BY: R.O. ISSUED DATE: 2/15/24

REVISION / ADDENDA NO. DATE DESCRIPTION

SHEET TITLE:

LIGHTING PLAN

SHEET

GENERAL NOTES LIGHTING SHEETS:

- 1. WHEN LOCATING SYSTEMS NEXT TO DOORS, LOCATE 8 INCHES OFF DOOR JAMB TO CENTER OF DEVICE. WHEN MULTIPLE DEVICES ARE TOGETHER, STACK BUT NO MORE THAN 72 INCHES AFF. COORDINATE SWITCH LOCATIONS IN ROOMS WITH ARCHITECT
- 4. COORDINATE LIGHT LOCATIONS WITH OTHER CEILING ITEMS OR JOIST ITEMS PRIOR TO
- 5. PROVIDE SECONDARY SUPPORT WIRES FROM ALL FOUR (4) CORNERS OF THE LAY-IN FIXTURES TO THE STRUCTURE ABOVE. DO NOT SUPPORT FIXTURES FROM CEILING GRID WIRE SUPPORTS, PIPING, CONDUIT, SIDE WALLS, OR MECHANICAL EQUIPMENT. CEILING SPECIFICATIONS DO NOT SUPERCEDE THIS REQUIREMENT.
- 6. FIXTURES WITH "E" SUFFIX HAVE BATTERY BACK-UPS.
- 7. FIRESTOP ALL CONDUIT PENETRATIONS IN RATED WALLS. SEE ARCHITECTURAL FOR WALL RATINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO SHEET ROCK AND REPAIR. PROVIDE FIRE RATED SLEEVES IN ALL FLOOR PENETRATIONS.
- 8. CONTRACTOR TO VERIFY FIXTURE VOLTAGE PRIOR TO INSTALLING ANY RELOCATED FIXTURE. COORDINATE WITH RCP FOR FIXTURE LOCATIONS.
- 9. PROVIDE AN EXTRA UNSWITCHED HOT LEG FOR EXIT LIGHTS.
- 10. PROVIDE CONTACTORS ADJACENT TO NEW PANELS WITH EXTERIOR LIGHTING CIRCUITS. THE CONTACTORS SHALL BE 4 POLE FOR CONTROL OF EXTERIOR LIGHTING AS SHALL BE ROUTED THROUGH LIGHTING CONTACTOR FOR PHOTOCELL ON/TIMER OFF
- HALLWAYS AND STUDENT RESTROOMS.
- 13. COORDINATE MOUNTING HEIGHT OF LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS.

- 1) PROVIDE NEW LIGHTING AS PER LIGHT FIXTURE SCHEDULE AND CONNECT TO CONTROLS AS SHOWN IN ACCORDANCE TO LEGEND.
- 2 COORDINATE EXACT ROUTE WITH OWNER AND ARCHITECT AND MARK UTILITIES PRIOR TO TRENCHING. ROUTE THRU GRASS AREA.
- 3 BORE ELECTRICAL CONDUIT UNDER EXISTING PAVEMENT.

AND OTHER DEVICES (THERMOSTATS, FIRE ALARM, AND CALL BUTTONS).

- 2. SWITCHES SHALL BE PROVIDED FOR EACH ROOM. SWITCH FIXTURES ACCORDING TO THE FOLLOWING: A) SWITCH DOWNLIGHTS ABOVE COUNTERS SEPARATE FROM REMAINDER OF ROOM. B) PROVIDE SEPARATE SWITCHING FOR CORRIDORS INDEPENDENT OF ROOMS.
- 3. MINIMUM CIRCUIT SIZE IS 2-#12 AND 1-#12 GROUND IN 3/4"CONDUIT. MAXIMUM FIXTURE WHIP LENGTH FROM ANY J-BOX 6 FEET. LIGHTING CIRCUITS JOINTS SHALL BE MADE UP IN OVERHEAD J-BOXES SECURED TO STRUCTURE WITH LIGHTING WHIPS FROM THE J-BOXES. FIXTURES DESIGNED TO BE QUICK-CLIPPED TOGETHER SHALL BE CONNECTED AS PER MANUFACTURER.
- INSTALLATION. LIGHT LOCATIONS TAKE PRECEDENCE OVER AIR DEVICES.

- NOTED. PROVIDE 120V FROM NEW PANEL SPARE 20A/1P C.B. ALL EXTERIOR LIGHTS OPERATION.
- 11. PROVIDE AN EXTRA UNSWITCHED HOT LEG FOR EXITS LIGHTS, NIGHTLIGHTS AND EMERGENCY LIGHTS. PROVIDE THE EXTRA UNSWITCHED HOT LEG FROM THE LINE SIDE OF THE CONTACTOR TO EACH EXIT AND EMERGENCY LIGHT AS INDICATED ON DRAWINGS. DO NOT ROUTE A SWITCHED (EITHER BY SWITCH OR CONTACTOR) HOT LEG TO EMERGENCY LIGHTS AND BALLASTS AS THIS WILL NOT ALLOW FOR PROPER OPERATION OF THE EMERGENCY/EXIT FIXTURE.
- 12. PROVIDE LUTRON GRAFIK EYE "GRX-XGLC" LOCKING COVER FOR SWITCHES IN

ELECTRICAL KEYED NOTES:

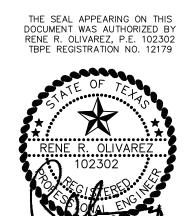
EXTERIOR LIGHTING PLAN

1/8" = 1'-0"

	LIGHT FIXTURE SCHEDULE										
TYPE	MANUF.	CATALOG №.	MOUNTING	LA	MPS	VOLTAGE	INPUT W	REMARKS	NOTES		
				#	TYPE						
P1	SIGNIFITY	OPF-S-A04-840-T3M-AR1-UNV-XX	POLE		LED	120/277V	90.68W	VERIFY COLOR WITH OWNER. CONNECT TO OCCUPANCY SENSOR.	1		
W1	SIGNIFITY	101L-16L-1000-NW-G2-4-XX	WALL		LED	120/277V	54.8W	VERIFY COLOR WITH OWNER. CONNECT TO OCCUPANCY SENSOR.	1		
W2	SIGNIFITY	GCS-A01-840-T2M-XX	WALL		LED	120/277V	10 200	VERIFY COLOR WITH OWNER. CONNECT TO OCCUPANCY SENSOR.	1		
W3	SIGNIFITY	101L-16L-200-NW-G2-2-UNV-XX	WALL		LED	120/277V	12\//	VERIFY COLOR WITH OWNER. CONNECT TO OCCUPANCY SENSOR.	1		

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 Weight



PROJECT #: 2319

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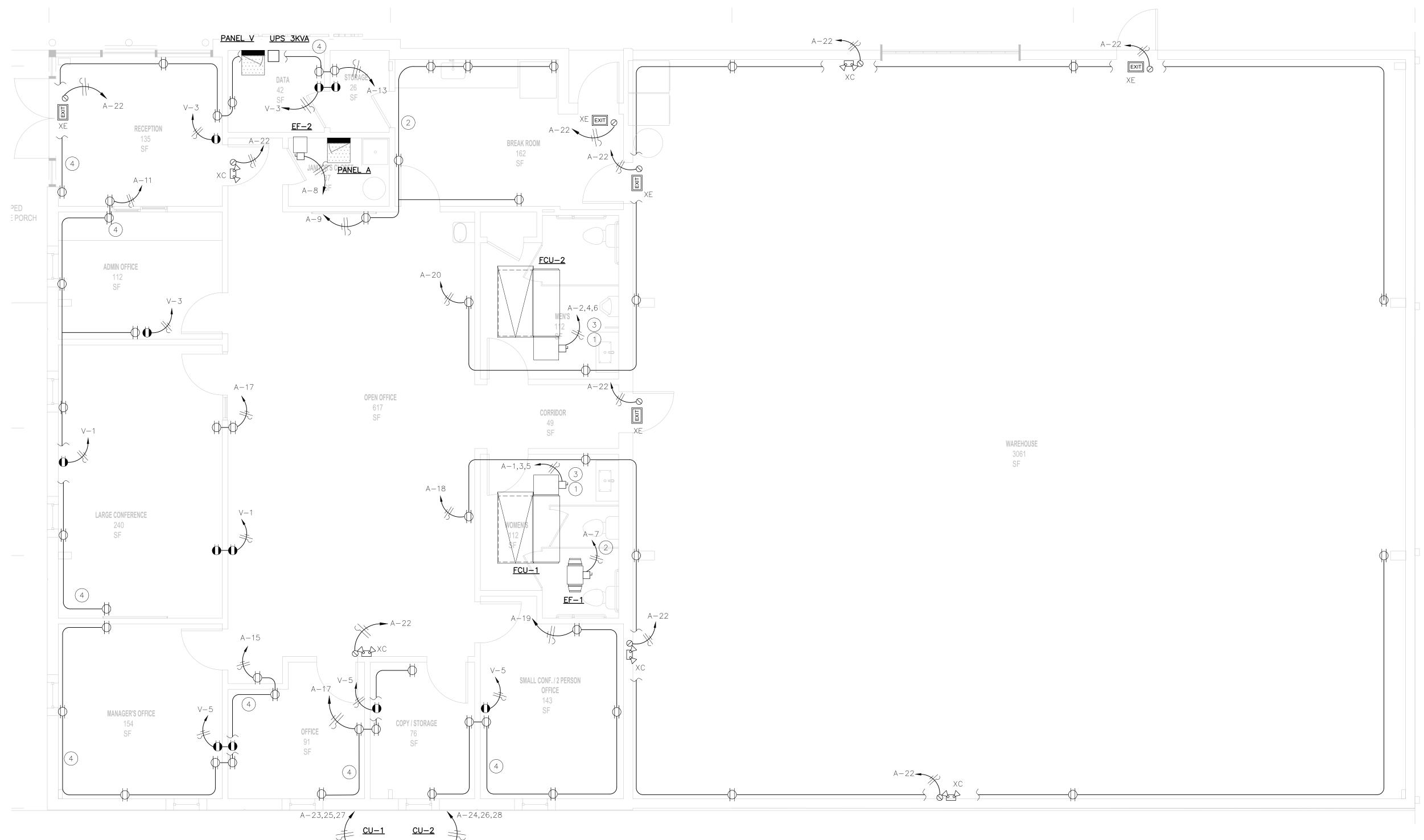
REVISION / ADDENDA

NO. DATE DESCRIPTION

EXTERIOR LIGHTING PLAN

SHEET

E1.1



ELECTRICAL KEYED NOTES:

- 1) PROVIDE J BOX ON WALL. ROUTE CONDUIT IN ABOVE CEILING FROM DECK.
 SUSPEND CONDUIT FROM STRUCTURE. COORDINATE EXACT LOCATION WITH
 ARCHITECT DRAWINGS AND LIGHTS PRIOR TO INSTALLATION.
- (2) INTERLOCAK FAN WITH LIGHTS WIRE SHALL BE 2#12,1#12G,1/2"C.
- 3 COORDINATE LOCATION OF NEW EQUIPMENT PRIOR TO ROUGH-IN.
- (4) COORDINATE LOCATION OF TV AND COMPUTERS PRIOR TO ROUGH-IN.

GENERAL NOTES POWER SHEETS:

- 1. SEE ALL OTHER PLANS FOR ADDITIONAL DEVICES. SOME POWER CIRCUITING MAY BE ON OTHER PLANS. COORDINATE THE LOCATIONS OF DATA/CATV JACKS WITH THE RECEPTACLES. MOUNT ADJACENT TO EACH OTHER.
- 2. WHEN LOCATING SYSTEMS NEXT TO DOORS, LOCATE 8 INCHES OFF DOOR JAMB TO CENTER OF DEVICE. WHEN MULTIPLE DEVICES ARE TOGETHER, STACK BUT NO MORE THAN 72 INCHES AFF.
- 3. MINIMUM CIRCUIT SIZE IS 2 #12 AND 1 #12 GROUND IN ½" CONDUIT FOR INDIVIDUAL CIRCUITS, 3/4" CONDUIT FOR MULTIPLE CIRCUITS. ALL CONDUCTORS SHALL BE 75 DEGREE (MINIMUM) COPPER THHN, COLOR CODED AS PER NEC AND LOCAL AMENDMENTS WITH SIZE, TEMPERATURE, AND VOLTAGE PERMAMENTLY PRINTED ON THE JACKET. ALL JOINTS SHALL BE MADE UP USING SELF LOCKING, TWIST-ON, COLOR CODED, SQUARE WIRE SPRING GRAB, LONG SKIRT, WIRE CONNECTORS WITH SWEPT WINGS.
- 4. COORDINATE RECEPTACLE LOCATIONS WITH MILLWORK AND COUNTERS. DO NOT LOCATE RECEPTACLES BEHIND DRAWERS OR HIDDEN IN MILLWORK UNLESS SPECIFICALLY DIRECTED BY OWNER/ARCHITECT. REVIEW ARCHITECTURAL ELEVATIONS PRIOR TO RECEPTACLE ROUGH—INS. SEE ARCH. ELEVATIONS IN BREAKROOMS FOR APPLIANCES AND RECEPTACLE MOUNTING LOCATIONS.
- 5. MOUNT RECEPTACLES 18" AFF, 6" ABOVE BACKSPLASH AT COUNTERS, 48" IN TOILET ROOMS, AT EQUIPMENT ROUGH—IN LOCATIONS FOR APPLIANCES, AND 96" FOR TV'S. PROVIDE GFI RECEPTACLES AT ALL SINKS, EXTERIOR RECEPTACLES, AND UNDERCOUNTER EQUIPMENT.
- 6. ALL EQUIPMENT SHALL HAVE A LOCAL DISCONNECTING MEANS, EITHER CORDED PLUG AND RECEPTACLE OR SWITCHED DISCONNECT. VERIFY FROM EQUIPMENT SUBMITTED OR RELOCATED IF DIRECT CONNECT OR RECEPTACLE. IF DIRECT CONNECT, PROVIDE SWITCH AS PER NEC OTHERWISE, PROVIDE RECEPTACLE, CORD PLUG AS REQUIRED BY EQUIPMENT SUBMITTAL.
- 7. ON CIRCUITS GREATER THAN 20A, FEEDING MULTIPLE PIECES OF EQUIPMENT, PROVIDE FUSED DISCONNECTS (SIZED FOR EQUIPMENT PROTECTING).
- 8. PROVIDE INDIVIDUAL DISCONNECTS FOR ALL SMOKE FIRE DAMPERS AND VAV'S. NO EXCEPTIONS.
- 9. FIRESTOP ALL CONDUIT PENETRATIONS IN RATED WALLS. SEE ARCHITECTURAL FOR WALL RATINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO SHEET ROCK AND REPAIR.

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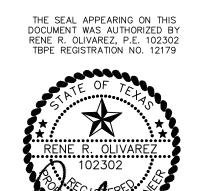
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PROJECT #: 2319

DI OFFICE AND WAREHOUSE

DRAWN BY: H.M.
REVIEWED BY: R.O.
ISSUED DATE: 2/15/24

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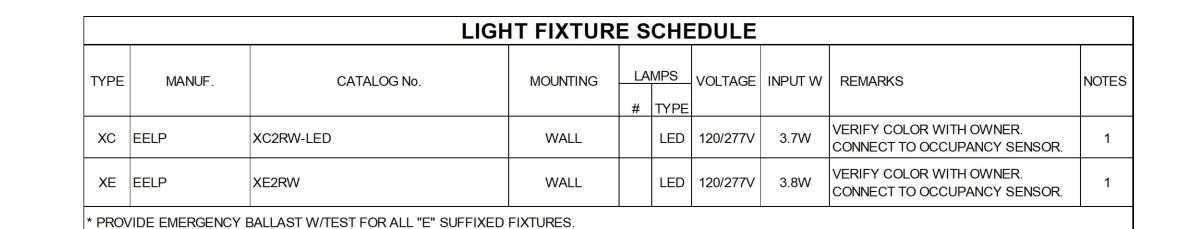
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POWER PLAN

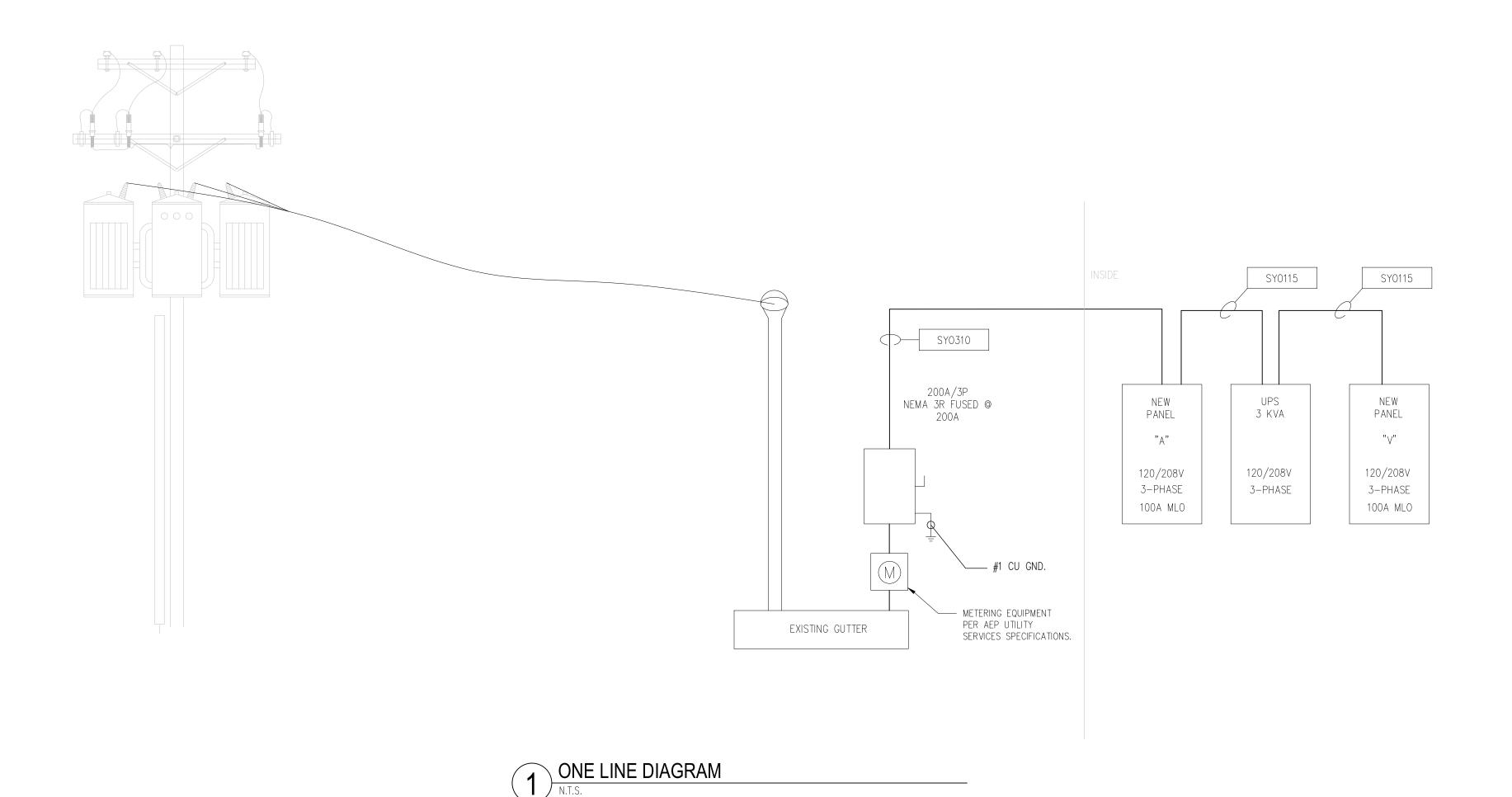
SHEET

E2.0



ELECTRICAL SERVICE SCOPE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY OF SERVICE TO THE NEW BLDG. COORDINATE ALL REQUIREMENTS AND COSTS AND LABOR W/ LOCAL UTILITY. PRIOR TO BID. ALL COSTS ASSOCIATED W/ THE DELIVERY OF ELECTRICAL SERVICE SHALL BE INCLUDED AS A PART OF THIS CONTRACT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



MARK	CONDUIT	CONDUCTORS
SY0115	1 - 1-1/4" Conduit	4 - #2 and 1 - #6 Ground
SY0150	1 - 2" Conduit	4 - #1/0 and 1 - #6 Ground
SY0200	1 - 2" Conduit	4 - #3/0 and 1 - #4 Ground
SY0230	1 - 2-1/2" Conduit	4 - #4/0 and 1 - #2 Ground
SY0310	1 - 3" Conduit	4 - #350 kcmil and 1 - #2 Ground
SY0400	2 - 2" Conduit	EACH with 4 - 3/0 and 1 - #2 Ground
SY1260	3 - 4" Conduits	EACH with 4 - #600 kcmil and 1 - #4/0 Ground
SY1520	4 - 4" Conduits	EACH with 4 - #500 kcmil and 1 - #4/0 Ground
SY1630	4 - 3-1/2" Conduits	EACH with 8 - #250 kcmil and 1 - #250 kcmil Grou
SY1680	4 - 4" Conduits	EACH with 4 - #600 kcmil and 1 - #250 kcmil Grou
SY2100	5 - 4" Conduits	EACH with 4 - #600 kcmil and 1 - #350 kcmil Grou
SD0115	1 - 1-1/4" Conduit	3 - #2 and 1 - #6 Ground

1. Wet location (underground or outdoors) use THHW. Otherwise THHN.

- 2. Conduit Types; underground schedule 40 PVC; indoors EMT; outdoor exposed IMC.
- CPS riser poles (follow Utility guidelines or minimum schedule 80).
- 3. Provide transitions to conduit changes prior to different environment (ex. Transition from
- EMT to IMC prior to penetrating walls to the exterior).
- 4. Motor Connections shall be flexible metallic conduit

5. All conduit penetrations in rated walls shall be firestopped. 6. See drawings for any special requirements.

NEW PANELBOARD A

VOLTAGE:	120/208	Volt	3	Phase,4-	Wire										ROOM
MCB: 150)												MO	UNTING	SURFAC
MLO:	MAIN; NEUTRAL	- 100%	6; EQL	IPMENT	GROUN	ID					Isc =	22,000	DA RMS SY	S AVAII	LABLE
Load (VA)	Description		Туре	Wire	СВ	CKT #	PH	CKT #	СВ	Wire	Туре		Description		Load (VA)
2400	FCU-1		С	8	40/3	1	Α	2	40/3	8	С	FCU-	2		2400
2400			С	8	40/3	3	В	4	40/3	8	С				2400
2400			С	8	40/3	5	С	6	40/3	8	С				2400
480	EF-1		F	12	20/1	7	Α	8	20/1	12	F	EF-2			480
1080	RECEPTACLE		R	10	20/1	9	В	10	15/1	12	L	LIGHT	TING		844
1260	RECEPTACLE		R	10	20/1	11	C	12	15/1	12	L	LIGH	TING		875
1080	RECEPTACLE		R	10	20/1	13	Α	14	15/1	12	L	LIGHT	TING		503
1260	RECEPTACLE		R	10	20/1	15	В	16	15/1	12	L	LIGHT	TING		796
1080	RECEPTACLE		R	10	20/1	17	O	18	20/1	10	R	RECE	PTACLE		1080
1080	RECEPTACLE		R	10	20/1	19	Α	20	20/1	10	R	RECE	PTACLE		1080
248	EXTERIOR LIGH	TING	L	12	20/1	21	В	22	15/1	12	L	LIGHT	TING EMER	₹.	38
2400	CU-1		С	8	40/3	23	С	24	40/3	8	С	CU-2			2400
2400			С	8	40/3	25	Α	26	40/3	8	С				2400
2400			С	8	40/3	27	В	28	40/3	8	С				2400
	SPACE					29	С	30				SPAC	E		
	SPACE					31	Α	32				SPAC			
	SPACE					33	В	34				SPAC			
	SPACE					35	С	36				SPAC	/ /		
540	PANEL-V		М	2	15/3	37	Α	38				SPAC			
720			М	2	15/3	39	В	40				SPAC			
720			M	2	15/3	41	С	42				SPAC	E		
23,948	Subtotal												S	ubtotal	20,096
Load	Туре	Cor	nn.	Fct.	Diver	sity							Conn.	Fct.	Diversity
(R) R	ecept.	9,0	00	100%	9,00	00			(L) Lighting			3,304	125%	4,130
(K) K	itchen	0)	100%	0				(E	EL) Ext. Lto	J.		0	125%	0
(C) C	Cooling	28,8	300	100%	28,8	00			(E	E) Elevator	S		0	100%	0
(F) (F)	eating	O)	0%	0				(V	VH) Wateı	r Ht.		0	100%	0
(F) Fa	•	96	60	100%	960)			•	/П) Lrg. M			0	125%	0
(M) N		1,9	80	100%	1.98	30			•	SP) Sub Pa			0	100%	0

*=FURNISH AND INSTALL CIRCUIT BREAKER AS INDICATED. MATCH AIC RATING.

				VA CONNECTED TO A PHASE =	14,843
Total Connected Load =	44,044	VA =	122.3 AMPS	VA CONNECTED TO B PHASE =	14,585
Total Load (Diversified)=	44,870	VA =	124.5 AMPS	VA CONNECTED TO C PHASE =	14.615

NEW PANELBOARD V

Lood (VA)	MAIN; NEUTRAL Description			Wire	СВ	CKT	PH	CKT	СВ	Wire		<u> </u>	A RMS SY		
Load (VA)	Description		Type	VVIIC	СВ	#	FI	#	СВ	VVIIC	Туре		Description		Load (VA)
540	RECEPTACLE		R	2	15/3	1	Α	2				SPACE			
720	RECEPTACLE		R	2	15/3	3	В	4				SPACE			
720	RECEPTACLE		R	2	15/3	5	С	6				SPACE			
	SPACE					7	Α	8				SPACE			
	SPACE					9	В	10				SPACE			
	SPACE					11	С	12				SPACE			
1,980	Subtotal												S	ubtotal	0
Load 7	Гуре	Cor	nn.	Fct.	Diver	sity							Conn.	Fct.	Diversity
(R) Re	ecept.	1,9	80	100%	1,98	30			(L	_) Lighting			0	125%	0
(K) Kit	tchen	0)	100%	0				(E	EL) Ext. Ltg	g.		0	125%	0
(C) Co	ooling	0		0%	0				(E	E) Elevator	S		0	100%	0
(H) He	eating	0		0%	0				(1	NH) Water	r Ht.		0	100%	0
(F) Fa	-	0)	100%	0				(1	MT) Lrg. M	ot.		0	125%	0
(M) Mi	SC.	0)	100%	0				18	SP) Sub Pa			0	100%	0
FURNISH A	ND INSTALL CIR	CUIT B	REAK	ER AS IN	DICATE	ED.	MAT	CH AI	C RAT	ING.					

2705 E. DAVIS RD. EDINBURG TEXAS 78539 PH. 956.513.1849

ENGINEERING



PROJECT #: 2319

DRAWN BY: H.M. REVIEWED BY: R.O. ISSUED DATE: 2/15/24

REVISION / ADDENDA NO. DATE DESCRIPTION

SHEET TITLE: **ELECTRICAL ONE** LINE DIAGRAM & SCHEDULES

SHEET

E3.0

PLUMBING SYMBOLS AND ABBREVIATIONS

(NOT ALL OF THE SYMBOLS SHOWN MAY BE USED ON THE PROJECT.)

<u>SYMBOL</u>	DESCRIPTION	<u>ABBREVIATION</u>	SYMBOL	<u>DESCRIPTION</u> A	ABBREVIATION_	SYMBOL	DESCRIPTION	<u>ABBREVIATION</u>	<u>ABBR</u>	<u>EVIATIONS</u>	<u>AB</u>	BREVIATIONS
├ SD 	STORM DRAIN, RAINWATER DRAIN	SD, RT	—	OUTSIDE YOLK & STEM GATE VALVE	OSY	├	UPRIGHT FIRE SPRINKLER HEAD	_				
⊱—SSD—	SUBSOIL DRAIN, FOOTING DRAIN	SSD		GATE VALVE	GV	FHR O 	FIRE HOSE RACK	FHR	A AFF AC	ABOVE FINISHED FLOOR ABOVE CEILING	M MAX MPS	MAXIMUM MEDIUM-PRESSURE STEAM
├ GW -	GREASE WASTE	GREASE WASTE	<u> </u>	GLOBE VALVE	GLV	←—AS ——	AUTOMATIC SPRINKLER PIPE	_	ACU AHU	AIR—CONDITIONING UNIT(S) AIR HANDLING UNIT	MTHW HG	MEDIUM-TEMPERATURE HOT WATER MERCURY
· -	ABOVE GRADE SOIL, WASTE, OR SANITARY SEWER	S, W, SAN, SS	\(\)	ANGLE VALVE	AV	⊱—DPS—→	DRY PIPE SPRINKLER	_	AHP AC	AIR HORSEPOWER ALTERNATING CURRENT	MPH MIN	MILES PER HOUR MINIMUM
→	BELOW GRADE SOIL, WASTE, OR SANITARY SEWER	S, W, SAN, SS	 	BALL VALVE	BV	⊱—PRA——	PREACTION SPRINKLER PIPE	_	ALI AMB ANSI	ALTITUDE AMBIENT AMERICAN NATIONAL STANDARDS INSTITUTE	NC NO	NORMALLY CLOSED NORMALLY OPEN
⊢	VENT	V	$\leftarrow \rightarrow \downarrow $	BUTTERFLY VALVE	BFV	O— ∑-	FIRE HOSE VALVE	FHV	AWG AMP	AMERICAN WIRE GAUGE AMPERE (AMP, AMPS)	NA NIC	NOT APPLICABLE NOT IN CONTRACT
←	ACID WASTE	AW	· · · · · · · · · · · · · · · · · · ·	GAS COCK, GAS STOP	_		FIRE HOSE CABINET (SURFACE-MOUNTED)	FHC	ANG ANGI ADP	ANGLE ANGLE OF INCIDENCE APPARATUS DEW POINT	NTS NO.	NOT TO SCALE NUMBER
AV	ACID VENT	AV	$\longleftarrow \longleftarrow$	BALANCING VALVE (SPECIFY TYPE)	BLV		FIRE HOSE CABINET (RECESSED)	FHC	APPROX A	APPROXIMATE AREA	OZ OA	OUNCE OUTSIDE AIR
├	INDIRECT DRAIN	D	<u> </u>	CHECK VALVE	CV	CO XCO	CLEANOUT PLUG	CO	ATM AVG	ATMOSPHERE AVERAGE	P PPM	PARTS PER MILLION
├ PD ├	PUMP DISCHARGE LINE	PD	— — 	PLUG VALVE	PV	ø co	FLOOR CLEANOUT	FCO	BFF BFF	BELOW FINISH FLOOR BELOW GRADE	% PH PIPE	PERCENT PHASE (ELECTRICAL) PIPE
·	COLD WATER	CW	AD-	ACCESS PANEL LOCATION	AP	₩CO	WALL CLEANOUT	WCO	BHP BTU	BRAKE HORSEPOWER BRITISH THERMAL UNIT	LB PSF	POUNDS POUNDS PER SQUARE FOOT
	HOT WATER SUPPLY (120°)	HW	<u>P-1A</u>	PLUMBING FIXTURE DESIGNATION	_	, <u>co</u> ,	YARD CLEANOUT OR CLEANOUT TO GRADE	CO	°C	CELSIUS	PSI PSIA	POUNDS PER SQUARE INCH PSI ABSOLUTE
├ ─── 140 ────	HOT WATER SUPPLY (140°)	140°		SOLENOID VALVE	_	FD <u>←</u> □	FLOOR DRAIN WITH P-TRAP	FD	C TO C CKT CCW	CENTER TO CENTER CIRCUIT COUNTERCLOCKWISE	PSIG PRES	PSI GAGE PRESSURE
<u> </u>	HOT WATER RETURN (120°)	HWR		MOTOR-OPERATED VALVE (SPECIFY TYPE)	_		PITCH DOWN OR UP—IN DIRECTION OF ARROW		FT ³	CUBIC FEET CUBIC INCH	QT R	QUART
	HOT WATER RETURN (140°)	140°R	→ PRV	PRESSURE—REDUCING VALVE	PRV		FLOW-IN DIRECTION OF ARROW	_	CFM SCFM	CUBIC FEET PER MINUTE CFM, STANDARD CONDITIONS	R RCVR	RADIUS RECEIVER
`	TEMPERED HOT WATER (TEMP.°F)	TEMP, HW, TW		PRESSURE—RELIEF VALVE	RV	•	POINT OF CONNECTION	POC	SCFS D DIA	CUBIC FT PER SEC, STANDARD DIAMETER	RECIRC REV RPM	RECIRCULATE REVOLUTIONS REVOLUTIONS PER MINUTE
	TEMPERED HOT WATER RECIRCULATING (TEMP.*F)	TEMP, HWR, TWR	↓ T&P	TEMPERATURE—PRESSURE—RELIEF VALVE	TPV	V F&T	STEAM TRAP (ALL TYPES)	-	ID OD	DIAMETER, INSIDE DIAMETER, OUTSIDE	RPS S	REVOLUTIONS PER SECOND
	(CHILLED) DRINKING WATER SUPPLY		₹ ^N RZBP		RZBP	FFD O	FUNNEL FLOOR DRAIN		DIFF DC	DIFFERENCE OR DELTA DIRECT CURRENT	S SPEC	SECOND SPECIFICATION
→ DWS	, , ,	DWS	DCV	REDUCED ZONE BACKFLOW PREVENTER		<u>~</u> ——⇒		FDD	DYCO F	DRY DOUBLE YARD CLEANOUT	SQ STD SP	SQUARE STANDARD STATIC PRESSURE
→ DWR	(CHILLED) DRINKING WATER RECIRCULATING	DWR		DOUBLE-CHECK BACKFLOW PREVENTER	DCBP		FLOOR SINK (3/4 GRATE)	FS	EFF ELEV	EFFICIENCY ELEVATION	SUCT SUM	SUCTION SUMM (-ER, -ARY, -ATION)
⊱—SW —	SOFT WATER	SW	≻ • + HB	HOSE BIBB	НВ	← ← ← ← ← ← ← ← ← ←	FLOOR SINK (1/2 GRATE)	FS	EVAP EXP	EVAPORATE (-E, -ING, -ED, -OR) EXPANSION	SPLY SYS	SUPPLY SYSTEM
	CONDENSATE DRAIN	CD	WH WH	RECESSED-BOX HOSE BIBB OR WALL HYDRANT VALVE IN YARD BOX (VALVE TYPE SYMBOL AS	WH	<u>S</u> 1	SOIL/VENT STACK DESIGNATION REFERENCE: DETAIL NUMBER	-	°F FPM	FAHRENHEIT FEET PER MINUTE	TAB TEE	TABULAT (-E, -ION) TEE
→ DI →	DISTILLED WATER	DI	<u> </u>	REQUIRED FOR VALVE USE)	YB	(P-3)	REFERENCE: SHEET NUMBER	_	FPS FT	FEET PER SECOND FOOT OR FEET	TEMP TD	TEMPERATURE TEMPERATURE DIFFERENCE
DE	DEIONIZED WATER	DE	·	UNION (SCREW)	_	├	UPRIGHT SPRINKLER	_	FTLB FCO	FOOT—POUND FLOOR CLEANOUT	TSTAT THKNS	THERMOSTAT THICK (-NESS)
\ / / / / / / 	PIPING TO BE HEAT TRACED	_	 	UNION (FLANGED)	_	$\leftarrow \longrightarrow \longrightarrow$	PENDENT SPRINKLER	_	G GA	GAGE OR GAUGE GALLONS	MCM MCF KIP FT	THOUSAND CIRCULAR MILES THOUSAND CUBIC FEET THOUSAND FOOT—POUNDS
← LS ←	LAWN SPRINKLER SUPPLY	LS		STRAINER (SPECIFY TYPE)	-	$\longleftarrow -\bigcirc \!\!\!\!- \rightarrow$	UPRIGHT SPRINKLER, NIPPLED UP	_	GPH STD GPH	GALLONS GALLONS PER HOUR GPH, STANDARD	KIP TON	THOUSAND POUNDS TON
├ F ├	FIRE PROTECTION WATER SUPPLY	F	\leftarrow	PIPE ANCHOR	PA	\leftarrow \longrightarrow	PENDENT SPRINKLER, ON DROP NIPPLE	_	GPD GR	GALLONS PER DAY GRAINS	U	U-FACTOR
← G ← →	GAS-LOW-PRESSURE	G	─	PIPE GUIDE	_	$\longleftarrow \bigvee - \bigvee - \longrightarrow$	SIDEWALL SPRINKLER	_	H HD HT	HEAD HEAT	UNIT V	UNIT VACUUM
├ MG ├	GAS-MEDIUM-PRESSURE	MG		EXPANSION JOINT	EJ	\leftarrow \sim \sim \sim	PIPE HANGER	_	HTR HGT	HEATER HEIGHT	VAC V VAR	VACOON VALVE VARIABLE
├── HG ──	GAS-HIGH-PRESSURE	HG	<u></u>	FLEXIBLE CONNECTOR	FC		ALARM CHECK VALVE ASSEMBLY	_	HPS HTHW	HIGH-PRESSURE STEAM HIGH-TEMPERATURE HOT WATER	VAV VEL	VARIABLE AIR VOLUME VELOCITY
\leftarrow — GV — \rightarrow	GAS VENT	GV	, , † , , , , , , , , , , , , , , , , ,	TEE	_		DRY PIPE VALVE ASSEMBLY	_	HP H	HORSEPOWER HOUR(S)	VENT VERT	VENTILATION, VENT VERTICAL VOLT
——	CONCENTRIC REDUCER	_	, * `	SIAMESE FIRE DEPARTMENT CONNECTION	_		DELUGE VALVE ASSEMBLY	_	IPS IPS	INTERNATIONAL PIPE STD IRON PIPE SIZE	V VOL VTR	VOLUME VENT THRU ROOF
	ECCENTRIC REDUCER	-	5—F— ↑ +	FREESTANDING SIAMESE FIRE DEPARTMENT CONNEC	CTION —	Θ	PREACTION VALVE ASSEMBLY	-	K K	KELVIN	W WAL	WALL
GWH-1	EQUIPMENT DESIGNATION (GAS WATER HEATER #1)	_	, \	WALL (SPECIFY NUMBERS AND SIZE OF OUTLETS		FH X	EXISTING FIRE HYDRANT	_	KW	KILOWATT KWH KILOWATT HOUR	WTR W	WATER WATT WATT—HOUR
P-1	NEW PLUMBING FIXTURE DESIGNATION	_	FP/JP	FIRE PUMP / JOCKEY PUMP	_	FH ┣️	NEW FIRE HYDRANT	_	LG LIN FT	LENGTH LINEAR FEET	WT WCO	WEIGHT WALL CLEANOUT
「しー) 」~)	EXISTING PLUMBING FIXTURE TO BE REMOVED	_	1 /// 1 // 1	TRAP PRIMER	TP	\$ *]	WALL HYDRANT, TWO HOSE OUTLETS	_	LIQ LPS	LIQUID LOW-PRESSURE STEAM	YYCO	YARD CLEANOUT
1) -	PLUMBING KEYED NOTE	_		PROPANE GAS	PG						YR Z	YEAR
♦	AQUASTAT	_		I NOT AINE GAS	1 0						۷	ZONE
TS TS	TAMPER SWITCH	TS										
₽ FS	FLOW SWITCH	FS										
□ PS					GENER	RAL PLUMBING	; NOIES:					

<u>GENERAL PLUMBING NOTES:</u>

RECIRCULATED.

1. ALL WORK SHALL CONFORM TO ALL STATE AND LOCAL CODES, RULES AND REGULATIONS, AND ORDINANCES.

PRESSURE SWITCH

WATER HAMMER ARRESTER (PDI DESIGNATION "A")

PRESSURE GAUGE WITH GAUGE COCK

THERMOMETER (SPECIFY TYPE)

AUTOMATIC AIR VENT

CIRCUIT SETTER

VALVE IN RISER (TYPE AS SPECIFIED OR NOTED)

RISER DOWN (ELBOW)

RISER (FLBOW) AIR CHAMBER

RISE OR DROP

BRANCH-BOTTOM CONNECTION

BRANCH-SIDE CONNECTION

CAP ON END PIPE

FLOW INDICATOR FOR STATIONARY METER (ORIFICE)

FLOW INDICATOR FOR PORTABLE METER (SPECIFY FLOW RATE)

₩

WHA

PG

АC

2. PLUMBING PLANS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO INDICATE CAPACITY, SIZE, LOCATION, DIRECTION AND GENERAL ARRANGEMENT. WHERE NOT SPECIFICALLY SHOWN ON PLANS, CONTRACTOR SHALL APPLY PROFESSIONAL STANDARDS SUCH AS THAT OF THE AMERICAN SOCIETY OF PLUMBING ENGINEERS.

3. WORK SHALL INCLUDE ALL LABOR, MATERIALS, PERMITS AND OTHER COSTS AS ARE NECESSARY FOR THE INSTALLATION OF A COMPLETE AND SATISFACTORY OPERATIONAL PLUMBING AND SANITARY SYSTEM. EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER AS TO MAINTAIN ITS LISTING AND THE MANUFACTURER'S GUARANTEES AND WARRANTIES.

4. THIS CONTRACTOR SHALL COORDINATE WITH THE OTHER TRADES TO INSURE THAT EACH

TRADE SHALL HAVE SUFFICIENT SPACE TO INSTALL THEIR EQUIPMENT (DUCTWORK, PIPING,

ELECTRICAL, ETC.), ALONG WITH THE PLUMBING WORK. 5. WHERE THE TERM "PROVIDE" IS USED, IT SHALL MEAN "FURNISH AND INSTALL". THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL THE OTHER TRADES PRIOR TO THE FABRICATION, PURCHASE AND/OR INSTALLATION OF THE WORK.

6. UNLESS NOTED, ALL MATERIALS SHALL BE NEW, COMPLETE, INCLUDE MANUFACTURER'S WARRANTY, AND BE U.L. APPROVED IF APPLICABLE. ALL WORK SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED.

7. FIELD VERIFY ALL DIMENSIONS. CONTRACTOR SHALL VERIFY ELEVATION OF UTILITY CONNECTIONS ON SITE PRIOR TO COMMENCING WORK. FINAL CONNECTION TO SITE UTILITIES

SHALL BE BY THE PLUMBING CONTRACTOR. 8. PIPING ROUTED THROUGH FOUNDATIONS SHALL BE SLEEVED AND INSTALLED IN

ACCORDANCE WITH THE AMERICAN SOCIETY OF PLUMBING ENGINEERS STANDARDS. 9. PLUMBING SYSTEM INSTALLER SHALL PROVIDE ALL STRUCTURAL MEMBERS, SUPPORT

BRACKETS, FLASHING, HARDWARE, ETC., REQUIRED TO INSTALL A COMPLETE SYSTEM.

10. DRAIN WASTE AND VENT PIPING SHALL BE PVC SCH. 40 WHEN INSTALLED BELOW GRADE OR UNDER CONCRETE SLABS. DRAIN WASTE AND VENT PIPING INSTALLED ABOVE GRADE SHALL BE PVC SCH. 40.

11. DOMESTIC WATER PIPING SHALL BE TYPE "L" COPPER.

12. PLUMBING CONTRACTOR SHALL CERTIFY ALL WATER PIPING AND SPECIALTIES FREE FROM MICROBIAL CONTAMINATION BY SANITIZING THE PLUMBING SYSTEM BEFORE OCCUPATION OF

13. EXPOSED FIXTURE TRIM SHALL BE CHROME PLATED BRASS. PROVIDE INDIVIDUAL STOPS FOR EACH HOT AND COLD WATER CONNECTION TO FIXTURES.

16. ALL SANITARY PIPING CHANGES OF DIRECTION 45 DEGREES OR MORE SHALL BE ACCOMPLISHED BY USING 45 DEGREE 1/8 BEND ELBOWS UNLESS OTHERWISE NOTED.

17. ALL SANITARY PIPING UNDER SLAB SHALL BE 2" OR LARGER.

18. INSTALL HEAT TRAPS ON ALL WATER HEATERS, WHERE THE SYSTEM IS NOT

19. PROVIDE MAINTENANCE AND/OR OTHER CLEARANCES AT EACH PIECE OF EQUIPMENT AS REQUIRED OR RECOMMENDED BY THE EQUIPMENT MANUFACTURER. COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE ANY ADDITIONAL SPACE REQUIRED FOR SUBMITTED EQUIPMENT.

20. PROVIDE ACCESS DOORS IN INACCESSIBLE FINISHES FOR ALL VALVES TRAP PRIMER, ETC., THAT REQUIRES PERIODIC ADJUSTMENTS OR MAINTENANCE.

21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTY AGAINST FIR THEFT OR ENVIRONMENTAL CONDITIONS.

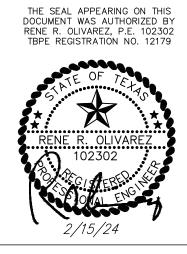
22. ALL MODEL NUMBERS INDICATED ARE PROVIDED TO ESTABLISH THE QUALITY LEVEL AND FEATURES REQUIRED. LISTED MANUFACTURERS AND OTHER PRIOR APPROVED EQUALS MAY BE SUBSTITUTED WHEN PROVIDED WITH EQUAL FEATURES, EITHER STANDARD OR AS ACCESSORIES. SUBSTITUTED AIR DEVICES AND PLUMBING FIXTURES MUST BE SIMILAR IN APPEARANCE TO THE ITEMS SPECIFICALLY INDICATED.

23. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER. CLEAN THE SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSED BY THE WORK INCLUDED IN THIS CONTRACT.

24. PROVIDE 1" ARMAFLEX INSULATION ON ALL HOT AND CIRCULATING WATER PIPING.

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PROJECT #: 2319

DRAWN BY: H.M. REVIEWED BY: R.O. ISSUED DATE: 2/15/24

REVISION / ADDENDA

NO. DATE DESCRIPTION

PLUMBING SYMBOLS & **ABBREVIATIONS**

SHEET

1 PLUMBING PLAN

1/8" = 1'-0"

PLUMBING GENERAL NOTE:

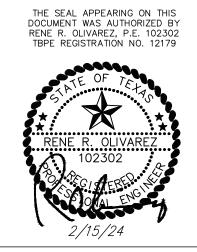
- A. DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.
- B. CONTRACTOR TO INSTALL ALL VTR AT A MINIMUM OF 15' AWAY FROM ANY EXISTING AIR INTAKE. FIELD VERIFY EXISTING ROOF EQUIPMENT PRIOR TO PENETRATING THE ROOF.

PLUMBING KEYED NOTES:

- REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION. CONTRACTOR TO BE RESPONSIBLE FOR COORDINATION, VERIFICATION AND CONNECTION OF ALL UTILITIES TO SITE UTILITY STUB-OUTS.
- $\langle 2 \rangle$ DOMESTIC WATER SERVICE ENTRY. REFER TO DETAIL 4/P0.1.
- BALL VALVE ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING. PANEL SHALL BE 12"X12" PAINTED TO MATCH CEILING. PROVIDE MARKING OF VALVE LOCATION ALONG THE CEILING TILE.
- WATER HAMMER ARRESTOR, PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE WALL/CEILING. PANEL SHALL BE 12"X12" PAINTED TO MATCH WALL/CEILING.
- 5 COLD & HOT WATER DROP TO FIXTURES; SIZE AS NOTED. SEE PLUMBING RISER DIAGRAMS FOR CONTINUATION IN WALL OR CHASE. PROVIDE WATER HAMMER ARRESTORS AS INDICATED IN RISER DIAGRAMS, PROVIDE ACCESS PANEL WHERE WHA LOCATED IN INACCESSIBLE WALL OR CEILING.
- 6 PROVIDE PROSET SYSTEMS INC. "TRAP GUARD" SEWER GAS EMISSION PROTECTION IN THIS FLOOR DRAIN. DETAIL 2/PO.1.
- $\overline{\langle 7 \rangle}$ PROVIDE TRAP PRIMER. REFER TO DETAIL 5/P0.1.
- $\langle 8 \rangle$ VENT THRU ROOF. REFER TO DETAIL 1/PO.1
- 9 RISE 3" SANITARY FOR MECHANICAL EQPMT DRAINAGE. REFER TO MEP2.0 FOR CONTINUATION AND DETAIL 7/P0.1.

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REVISION / ADDENDA

NO. DATE DESCRIPTION

PLUMBING

SHEET

P1.0

PLUMBING SCOPE & SPECIFICATION

FAUCET:

STRAINER:

P-TRAP:

SUPPLIES:

CARRIER:

ROUGH-IN:

DESCRIPTION:

ROUGH-IN:

FAUCET:

STRAINER:

P-TRAP:

SUPPLIES:

ROUGH-IN:

FAUCET:

ROUGH-IN:

P-TRAP:

SUPPLIES:

CARRIER:

ROUGH-IN:

1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVES

RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2"

BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE

SLEEVE, THREADED CONCEALED ARMS, ALIGNMENT BAR, LOCKING

2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO

URINAL, WALL HUNG, WHITE VITREOUS CHINA, .5 GALLON PER FLUSH SIPHON JET ACTION, INTEGRAL TRAP. AMERICAN STANDARD

RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE

2" WASTE, 2" VENT, 3/4" COLD WATER. REFER TO ARCHITECTURAL

SLEEVE, UPPER AND LOWER BEARING PLATÉS WITH THREADED

SINK, COUNTER MOUNTED, SELF-RIMMING, 18 GAUGE TYPE 304 STAINLESS STEEL, 29" X 18" X 6" DEEP, DOUBLE COMPARTMENT

WITH FAUCET DECK. THREE FAUCET HOLES ON 4" CENTERS. ELKAY

SPOUT AND 4" WRIST BLADE HANDLES ON 8" CENTERS. QUARTER

CHROME PLATED BRASS FLAT GRID SINK STRAINER, WITH 1-1/2"

1-1/2" END OUTLET 16" CENTERS 17 GAUGE CONTINUOUS WASTE WITH CAST BRASS TEE AND SLIP NUTS. MCGUIRE 111C16G17. 1-1/2"

1/2" I.P.S. X 3/8" O.D. CHROME PLATED LOOSE KEY STOP VALVES

CHROME PLATED BRASS DECK MOUNTED FITTING WITH 8" SWING

TURN OPERATING CARTRIDGES, VANDAL RESISTANT 2.2 GPM

17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE.

WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED

CONSTRUCTION. TRUEBRO BASIN GUARD MODEL 36 IN WHITE OR BEIGE AS SELECTED BY ARCHITECT/OWNER. CUT IN FIELD AS

HOMOGENEOUS MOLDED STONE CONSTRUCTION. STAINLESS STEEL

STEEL COMBINATION DOME STRAINER AND LINT BASKET. PROVIDE

BREAKER SPOUT WITH PAIL HOOK AND WALL BRACE, FOUR ARM

FOUNTAIN, ALL STAINLESS STEEL. SHALL DELIVER 8 GPH OF 50

DEGREE WATER AT 90 DEGREE AMBIENT AND 80 DEGREE INLET

27" HIGH. HALSEY TAYLOR HAC8FSBL-Q WITH APRON 42522. 1-1/4" CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND

EXTENSION TO WALL WITH ESCUTCHEON. MCGUIRE 8872.

PROVIDED BY FIXTURE MANUFACTURER. MIFAB MC-33.

WATER. PROVIDE CANE TOUCH APRON IN ALL STAINLESS STEEL ON

1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH

ALL UNITS MOUNTED WITH A CLEAR KNEE SPACE GREATER THAN

ÉSCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE

RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE SLAB WITH (4) 1/2" BOLTS. ADJUSTABLE SLEEVE FOR CONNECTION TO HANGER PLATE

2" WASTE, 2" VENT, 1/2" COLD WATER. REFER TO ARCHITECTURAL

HANDLES ON 8" CENTERS. 3/4" MALE HOSE THREAD OULET. FIAT

WITH WALL HANGER. FIAT MSB 2424 WITH E-88-AA, MSG-2424, 889-

STAINLESS STEEL WALL GUARDS IN QUANITITY AS REQUIRED TO PROTECT ADJACENT WALLS, PROVIDE MOP HANGER AND 30" HOSE

BUMPER GUARDS, DRAIN BODY, AND REMOVEABLE STAINLESS

CHROME PLATED BRASS WALL MOUNTED FITTING. VACUUM

3" WASTE, 2" VENT, 1/2" HOT AND COLD WATER.

EDF-1 (T.A.S. COMPLIANT FOR ADULTS) DESCRIPTION: WALL HUNG, BARRIER FREE, SPLIT-LEVEL ELECTRIC DRINK

DRAWINGS FOR HEIGHT REQUIREMENTS.

2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO

ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

AND FASTENERS RIGID HIGH IMPACT STAIN RESISTANT PVC

AERATOR. CHICAGO MODEL 1100-317-E3VPJKCP.

SK-1 (T.A.S. COMPLIANT FOR ADULTS) - BREAKROOM

ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED

FLEXIBLE RISERS. MCGUIRE 2165LK.

U-1 (T.A.S. COMPLIANT FOR ADULTS)

DRAWINGS FOR HEIGHT REQUIREMENTS.

"ALLBROOK" 6550.005

STUDS. MIFAB MC-32.

OUTLET, MCGUIRE 152LT.

FLEXIBLE RISERS. MCGUIRE 2165LK.

ACCESSORY: UNDERSINK PROTECTIVE ENCLOSURE WITH MOUNTING TRACK

REQUIRED TO FIT KNEE SPACE OPENING.

DESCRIPTION: MOP SINK BASIN, 24" X 24" X 10" HIGH. WHITE ONE-PIECE

MCGUIRE 8912.

CC, AND 832-AA.

RISER. MCGUIRE 2165LK.

LRAD-2918.

FLUSH VALVE: SLOAN ROYAL G2 8186-0.5 GPF FLUSH VALVE.

DEVICE, AND LEVELING SCREWS. MIFAB MC-41.

THE WORK OF THIS SECTION SHALL INCLUDE, BUT NOT BE LIMITED TO:

- A. A DOMESTIC HOT AND COLD WATER DISTRIBUTION SYSTEM TO SERVE ALL FIXTURES. B. A SANITARY WASTE AND VENT SYSTEM TO SERVE ALL FIXTURES.
- C. CONNECT TO EXISTING COLD WATER AND SANITARY MAINS.

DRAWINGS ARE DIAGRAMMATIC: CONFIRM DIMENSIONS AND LOCATIONS IN THE FIELD. ADVISE OF MAJOR DISCREPANCIES.

GUARANTEE LABOR AND MATERIALS FOR ONE YEAR.

ADHERE TO APPLICABLE LOCAL CODES AND REGULATIONS, WHICH INCLUDE BUT ARE NOT LIMITED TO CITY OF HOUSTON (2000 UNIFORM PLUMBING CODE, WITH AMENDMENTS). PRODUCE RECORD DRAWINGS.

CONTRACTOR SHALL OBTAIN REQUIRED PERMITS AND PAY ALL FEES.

<u>VALVES</u>

VALVES SHALL BE MANUFACTURED BY NIBCO, HAMMOND, POWELL, STOCKHAM, WATTS OR EQUIVALENT APPROVED BY THE ENGINEER.

GATE VALVES SHALL CONFORM TO MSS-SP-80 FOR BRONZE AND MSS-SP-70 FOR IRON, VALVES 2" AND SMALLER SHALL BE NIBCO T-113 OR S-113 OR APPROVED EQUIVALENT.

BALL VALVES SHALL HAVE CAST BRONZE BODY, BLOWOUT PROOF STEMS, FULL SIZE PORT, 316 STAINLESS STEEL TRIM, TEFLON SEAT AND SEAL AND THRUST WASHERS. VALVES 2" AND SMALLER SHALL BE NIBCO T-585-70-66 OR APPROVED EQUIVALENT.

<u>UNIONS</u>

UNIONS IN COPPER OR BRASS LINES SHALL BE BRASS, THREADED PATTERN UNIONS.

EXCAVATION

EXCAVATE TRENCHES FOR UNDERGROUND PIPING TO THE REQUIRED DEPTH.

CUT THE BOTTOM OF THE TRENCH OR EXCAVATION TO UNIFORM GRADE.

EXCAVATE 6" BELOW GRADE, FILL WITH BEDDING MATERIAL (SAND) AND TAMP WELL.

LAY OUT ALIGNMENT OF PIPE TRENCHES TO AVOID OBSTRUCTIONS. PROVIDE ASSURANCE THAT PROPOSED ROUTE OF PIPE WILL NOT INTERFERE WITH BUILDING FOUNDATION BEFORE ANY CUTTING IS BEGUN. SHOULD INTERFERENCE BE FOUND, CONTACT THE ARCHITECT/ENGINEER BEFORE PROCEEDING.

BACKFILL

BACKFILL SHALL NOT BE PLACED UNTIL THE WORK HAS BEEN INSPECTED, TESTED AND APPROVED. USE SUITABLE FRIABLE SOILS AS BACKFILL MATERIAL. DO NOT USE PEAT, SILT, MUCK, DEBRIS OR OTHER ORGANIC MATERIALS. DEPOSIT BACKFILL IN UNIFORM LAYERS.

PLACE BACKFILL MATERIAL IN UNIFORM LAYERS, 8" MAXIMUM LOOSE MEASURE. COMPACT TO NOT LESS THAN 95% OF MAXIMUM SOIL DENSITY AS DETERMINED BY ASTM D698 STANDARD PROCTOR.

PLUMBING PIPING HANGER SPACING

MAXIMUM SPACING SHALL BE 10 FOOT.

CLEANING, TESTING AND ADJUSTING

THIS CONTRACTOR SHALL FURNISH ALL LABOR, TOOLS, INSTRUCTIONS, AND SUPERVISION REQUIRED FOR THE PERFORMANCE OF ALL TESTS, CLEANING, AND MAKING NECESSARY ADJUSTMENTS TO OPERATION OF ALL FIXTURES AND EQUIPMENT.

<u>PIPING INSULATION</u>

ALL COLD WATER PIPING, FITTINGS AND VALVES SHALL BE INSULATED WITH NOMINAL 1/2" WALL THICKNESS IMCOLOCK PIPE INSULATION, OR AN APPROVED EQUAL HAVING FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DENSITY OF 50 OR LESS WHEN TESTED BY ASTM E-84 METHOD.

IMCOLOCK PIPE INSULATION MAY BE SLIPPED ONTO THE PIPE PRIOR TO CONNECTION OR APPLIED AFTER THE PIPE IS INSTALLED, AT THE CONTRACTOR'S OPTION. ALL BUTT JOINTS AND MITER JOINTS SHALL BE CLOSED USING IMCOA'S FUSE SEAL JOINING SYSTEM OR FACTORY APPROVED CONTACT ADHESIVE. IMCOLOCK PIPE INSULATION SHALL BE INSTALLED ACCORDING TO THE PROCEDURES OUTLINED BY THE MANUFACTURER.

FITTING COVER INSULATION SHALL BE FABRICATED AND INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURES. SWEAT FITTINGS SHALL BE INSULATED WITH MITER CUT PIECES OF IMCOLOCK PIPE INSULATION THE SAME SIZE AS ON ADJACENT PIPING. THREADED FITTINGS SHALL BE INSULATED WITH SLEEVED FITTING COVERS FABRICATED FROM MITER CUT PIECES OF IMCOLOCK PIPE INSULATION ACCORDING TO THE MANUFACTURER'S SLEEVING SIZE RECOMMENDATIONS AND SHALL BE OVERLAPPED 2" AND SEALED TO THE ADJACENT PIPE INSULATION. ALL VALVES SHALL BE INSULATED WITH CUT PIECES OF IMCOLOCK PIPE INSULATIONS. ALL JOINTS AND MITER CUT PIECES ARE TO BE SEALED USING IMCOA'S FUSE SEAL JOINING SYSTEM OR FACTORY APPROVED CONTACT ADHESIVE.

SUPPORTING HANGERS SHALL BE DESIGNED TO RESIST COMPRESSION; SUPPORTING DEVICES SUCH AS SHORT WOOD DOWELS OR WOOD BLOCKS SHALL BE USED IN COMBINATION WITH GALVANIZED SHEET METAL HANGER SHIELDS. THE WOOD SUPPORTING DEVICES SHALL BE THE SAME THICKNESS AS THE INSULATION AND SEALED TO THE INSULATION WITH FACTORY APPROVED CONTACT ADHESIVE.

INSTALL THERMAL INSULATION ON CLEAN, DRY SURFACES AFTER ALL TESTING AND INSPECTION IS COMPLETED. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THESE SPECIFICATIONS AND WITH MANUFACTURERS INSTRUCTIONS.

THERMOSTATIC MIXING VALVES

ITEM NO.	INLET HOT WATER TEMP (°F)	OUTLET MIXED WATER TEMP (°F)	MINIMUM FLOW (GPM)	DESIGN FLOW (GPM)	PRESSURE DROP © DESIGN FLOW (PSI)	VALVE FINISH	MANUFACTURER / MODEL NO.
TMV-1	120°	110°	0.5	4	5.0	ROUGH BRONZE	SYMMONS THERMIXER 7-225-CK

- I. MAKE WATER CONNECTIONS TO THERMOSTATIC MIXING VALVE(S) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 2. PROVIDE PIPE INCREASERS AND/OR VALVES AS REQUIRED.

PLUMBING FIXTURE SPECIFICATION

TYPE: DESCRIPTION:	WC-1 (T.A.S. COMPLIANT FOR ADULTS) WATER CLOSET, FLOOR MOUNTED 12" ROUGH-IN, WHITE VITREOUS	TYPE: DESCRIPTION:	TMV THERMOSTATIC MIXING VALVE. SCHEDULED ON DRAWINGS.
SEAT:	CHINA, 1.28 GALLON PER FLUSH SIPHON JET ACTION, 16-1/2" HIGH ELONGATED CLOSET BOWL WITH CLOSE-COUPLED TANK AND BOLT COVERS. TANK TO BE CONFIGURED WITH TRIP LEVER LOCATED ON LEFT SIDE OR ON RIGHT SIDE IN ORDER TO MEET T.A.S. REQUIREMENT THAT FLUSH CONTROLS BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREA. AMERICAN STANDARD CADET ADA 16-1/2" H ELONGATED TOILET 2235.128US ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. CHURCH 9500SSC.	TYPE: DESCRIPTION: ROUGH-IN:	WH-1 WALL HYDRANT, CONCEALED BOX TYPE, NON-FREEZE, 3/4" MALE HOSE THREAD OUTLET, SELF-DRAINING WITH ANTI-SIPHON VACUUM BREAKER. CHROME PLATED BRONZE CONSTRUCTION WITH CAST STAINLESS STEEL HYDRANT BOX. LOCKING HINGED COVER. LOOSE TEE OPERATING KEY. MIFAB MHY-20-3. 3/4" COLD WATER. INSTALL WITH OUTLET AT 24" A.F.F. OR AS DIRECTED BY ARCHITECT/OWNER.
SUPPLIES: ROUGH-IN:	1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISER. MCGUIRE 2166LK. 4" WASTE, 2" VENT, 1/2" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.	TYPE: DESCRIPTION:	WCO WALL CLEANOUT. CAST IRON CLEANOUT FERRULE WITH BRONZE RAISED HEAD PLUG AND ROUND STAINLESS STEEL COVER PLATE WITH CENTER SECURING SCREW. MIFAB C1440-RD6. PROVIDE MIFAB C1460 CAST IRON CLEANOUT TEE IN LIEU OF FERRULE AS REQUIRED
TYPE:	L-1 - TOILET ROOMS (T.A.S. COMPLIANT FOR ADULTS) LAVATORY, WALL HUNG, WHITE VITREOUS CHINA, 20-1/2" X 18-1/4"		FOR WALL CONSTRUCTION.
DESCRIPTION:	WITH FRONT OVERFLOW AND CONCEALED ARM SUPPORTS, FAUCET HOLES ON 4" CENTERS. AMERICAN STANDARD "LUCERNE" 0355.012.	GENERAL NOTES:	ALL LAVATORIES AND SINKS SHALL BE SUPPLIED WITH HOT AND COLD WATER TO FAUCETS AS INDICATED ON PLANS AND FIXTURE

SCHEDULE. PROVIDE CHROME PLATED BRASS SUPPLY STOPS WITH CHROME PLATED BRASS DECK MOUNTED SINGLE LEVER LOOSE KEYS AND WALL ESCUTCHEONS. PROVIDE CHROME PLATED LAVATORY FITTING WITH 4-3/4" SPOUT, 4" CENTERS COVER PLATE, FLEXIBLE RISERS OF SIZE REQUIRED TO PROPERLY CONNECT CERAMIC MIXING CARTRIDGE, VANDAL RESISTANT 0.5 GPM AERATOR. FIXTURES. PROVIDE 17 GAUGE CHROME PLATED CAST BRASS P-CHROME PLATED BRASS GRID STRAINER WITH 1-1/4" 17 GAUGE TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH TAILPIECE WITH LOCK NUT. MCGUIRE 155A. ESCUTCHEON. REFER TO FIXTURE SCHEDULE FOR MINIMUM SIZES 1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH OF PLUMBING FIXTURE ROUGH-INS. CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8872.

PROVIDE MOLDED CLOSED CELL ANTI-MICROBIAL VINYL INSULATION KITS AT ALL LAVATORIES AND SINKS REQUIRED TO BE T.A.S. ACCESSIBLE (MCGUIRE OR TRUEBRO). ALL SUCH FIXTURES AND FINAL INSTALLÀTIONS SHALL COMPLY WITH THE STATE ACCESSIBILITY STANDARDS REQUIREMENTS.

INSERT TRAP GUARDS AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS-TIGHT SEAL. FOR DRAIN RODDING AFTER INSTALLATION, INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1-1/2" PVC PIPE TO PROTECT TRAP GUARD.

SHOCK ARRESTORS			
P.D.I. SYMBOL	FIXTURE UNITS	CHAMBER LENGTH	SWEAT CONNECTION
A	1-11	9-5/8"	1/2"
В	12-32	11-3/4"	3/4"
С	33-60	14-11/18"	1"
D	61–113	12-3/8"	1"
E	114-154	15-3/8"	1"
F	155-330	17-3/8"	1"

PIPE MATERIAL LIST

TYPE M COPPER TUBING UP TO 1" ID, TYPE DWV TUBING AND COPPER FITTINGS FOR 1-1/4" AND LARGER SIZES, AND 95-5 SOLDER JOINTS.

SANITARY SOIL WASTE AND VENT PIPING SHALL BE

CONFORMING TO ASTM D-1784-82 WITH SOLVENT WELDED JOINTS. DO NOT USE IN AIR

ABOVE SLAB INSIDE THE BUILDING SHALL BE SEAMLESS ASTM B 88 TYPE L COPPER WATER TUBE WITH WROUGHT COPPER FITTINGS, ANSI B16.22. SOLDER MATERIAL SHALL BE 95.5% LEAD FREE, ASTM B 32. THE USE OF DRILLED-T CONNECTIONS IS NOT PERMITTED.

CONDENSATE AND INDIRECT DRAIN PIPING SHALL BE

ABOVE AND BELOW SLAB SHALL BE SCHEDULE 40 DWV POLYVINYL CHLORIDE PIPE AND FITTINGS SUPPLY OR RETURN AIR PLENUMS, OR FIRE RATED WALLS, PARTITIONS, OR FLOORS.

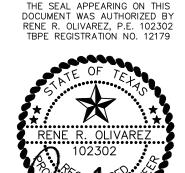
2705 E. DAVIS RD. EDINBURG TEXAS 78539 PH. 956.513.1849

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PROJECT #: 2319

W. SHAF ARR, TX

DRAWN BY: H.M. REVIEWED BY: R.O. ISSUED DATE: 2/15/24

REVISION / ADDENDA

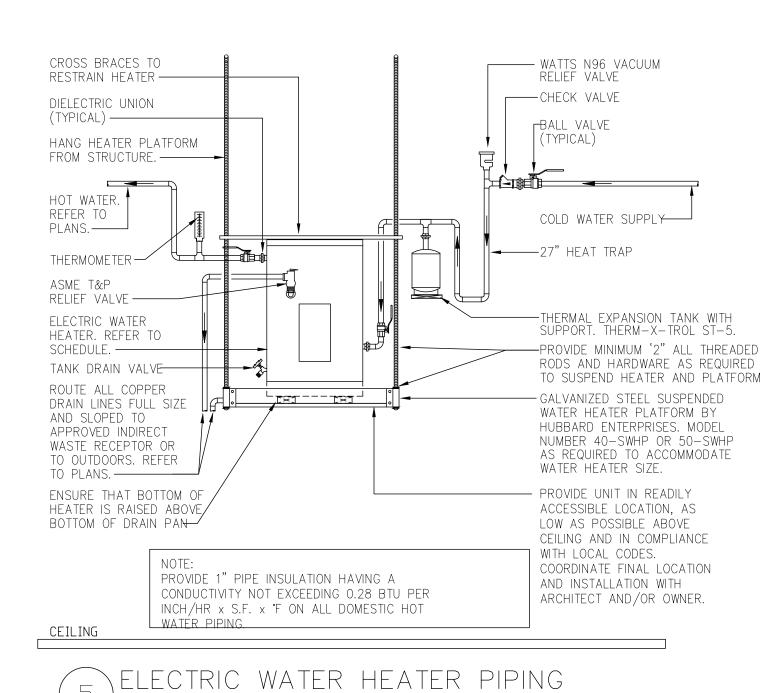
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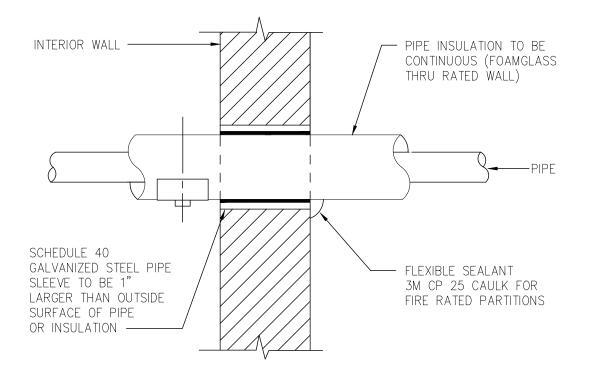
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PLUMBING RISERS & SCHEDULES

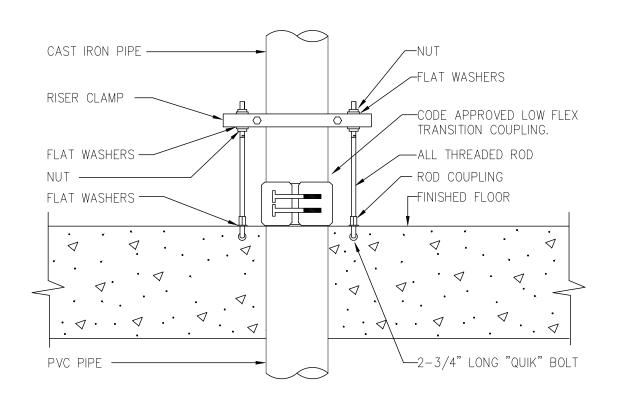
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OMESTIC WATER SERVICE ENTRY



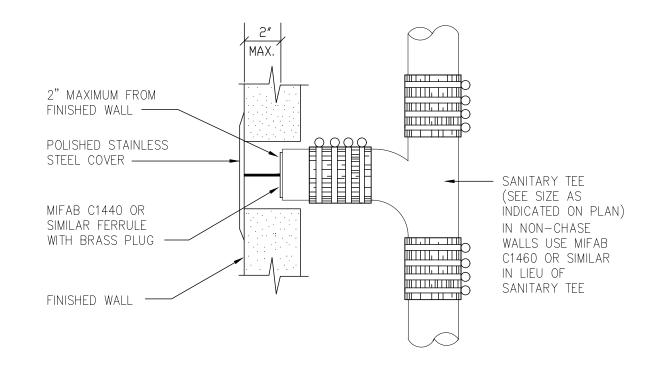


NTERIOR WALL PENETRATION



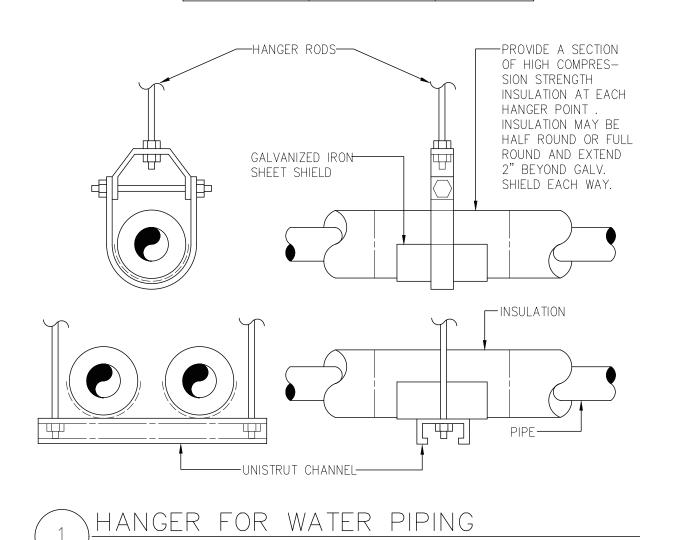
NOTE: THERE IS TO BE NO EXPOSED PVC ABOVE SLAB.

CAST IRON TO PVC PIPE TRANSITION



WALL CLEANOUT

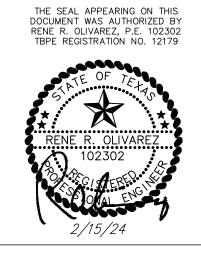
MINIMUM DIMENSIONS OF GALVANIZED SHEETMETAL PROTECTION SHIELDS AT PIPE HANGERS				
NOMINAL SIZE PIPE	SHIELD LENGTH MIN. (IN.)	GAUGE THICKNESS		
1/2" & 3/4" 1" - 2-1/2"	12 12	18 18		
3" – 4"	12	18		
6"	12	16		



2705 E. DAVIS RD. EDINBURG TEXAS 78539

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ENGINEERING



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REVISION / ADDENDA

NO. DATE DESCRIPTION

SHEET TITLE:

PLUMBING DETAILS

SHEET P3.0