OSCAR SA CARMEN ROBERT I MIGUEL " XAVIER S DOMINGA GONZALEZ

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SCHEDULE DRAWINGS

MECHANICAL

COVER SHEETS

CO1 - COVER SHEET

DM1 — DEMO MECHANICAL FLOOR PLAN DE1 — DEMO ELECTRICAL POWER PLAN

DEMOLITION

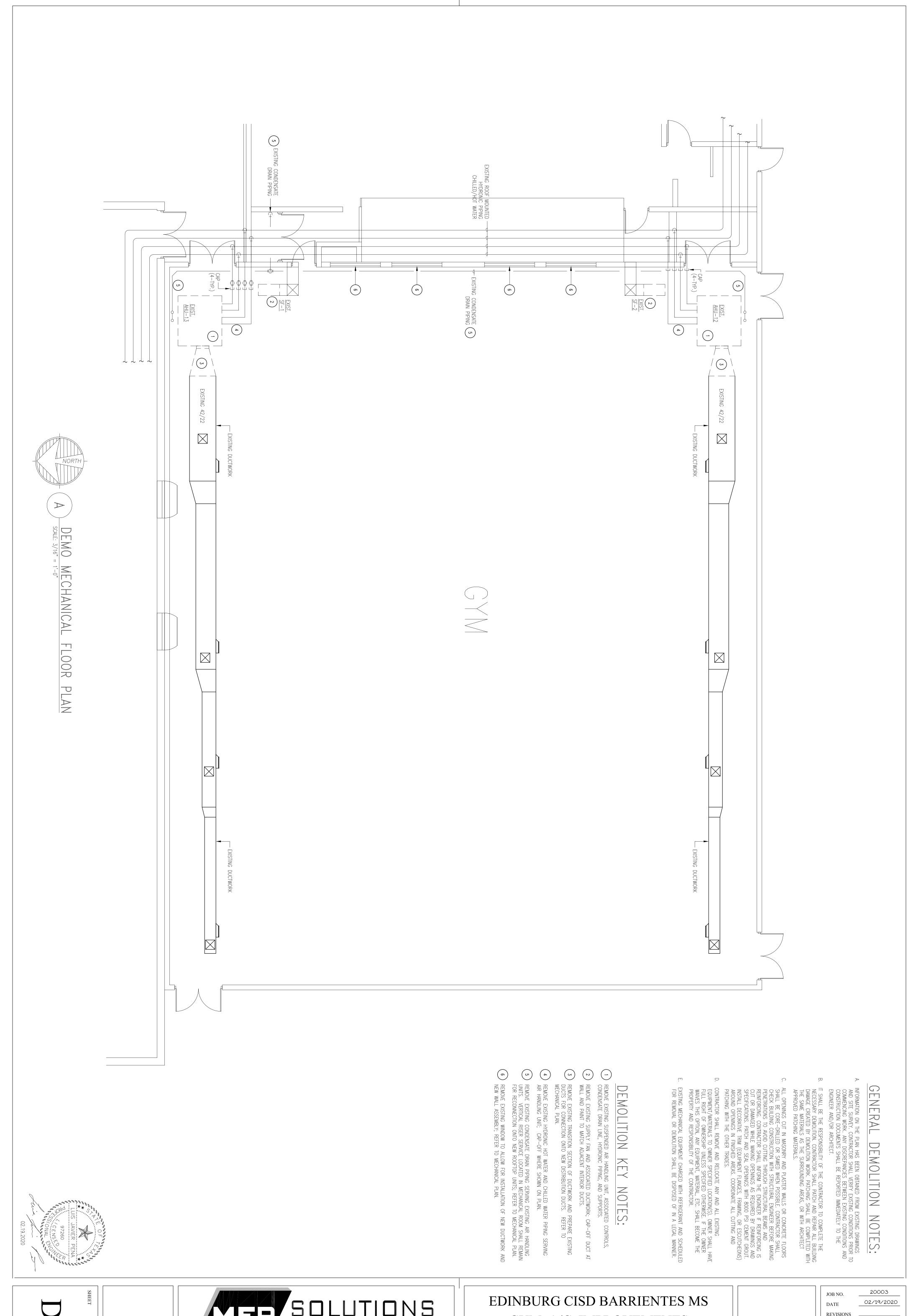
MECHANICAL FLOOR PLANMECHANICAL SCHEDULESMECHANICAL DETAILS

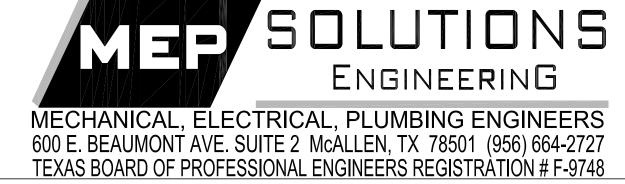
ELECTRICAL

E1 — ELECTRICAL POWER FLOOR PLAN E2 — ABBREVIATIONS SHEET

ENGINEERING MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS 600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727 TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748 EDINBURG CISD BARRIENTES MS GYM A/C IMPROVEMENTS

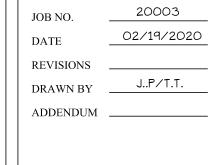
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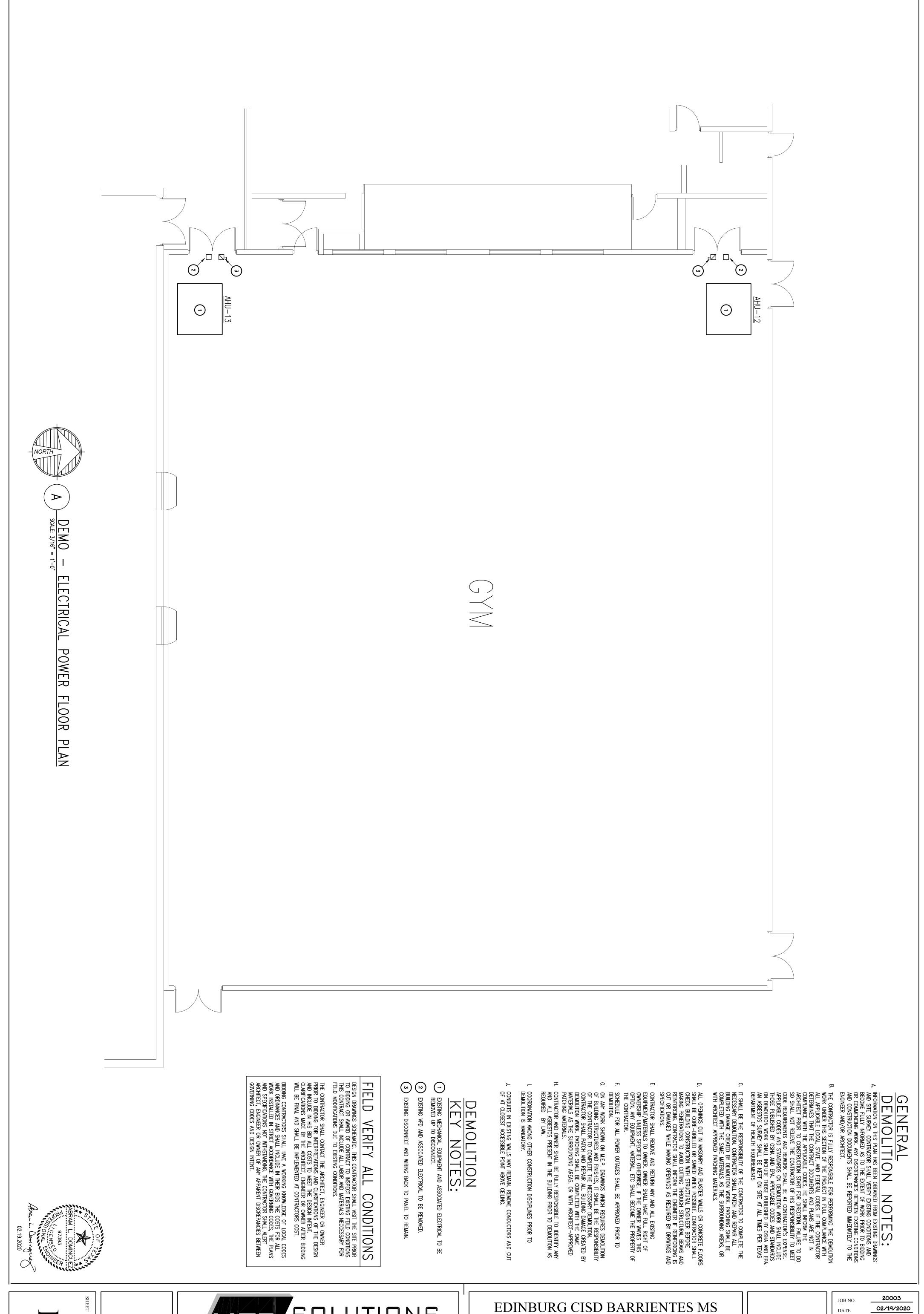




GYM A/C IMPROVEMENTS

EDINBURG, TEXAS





DE1

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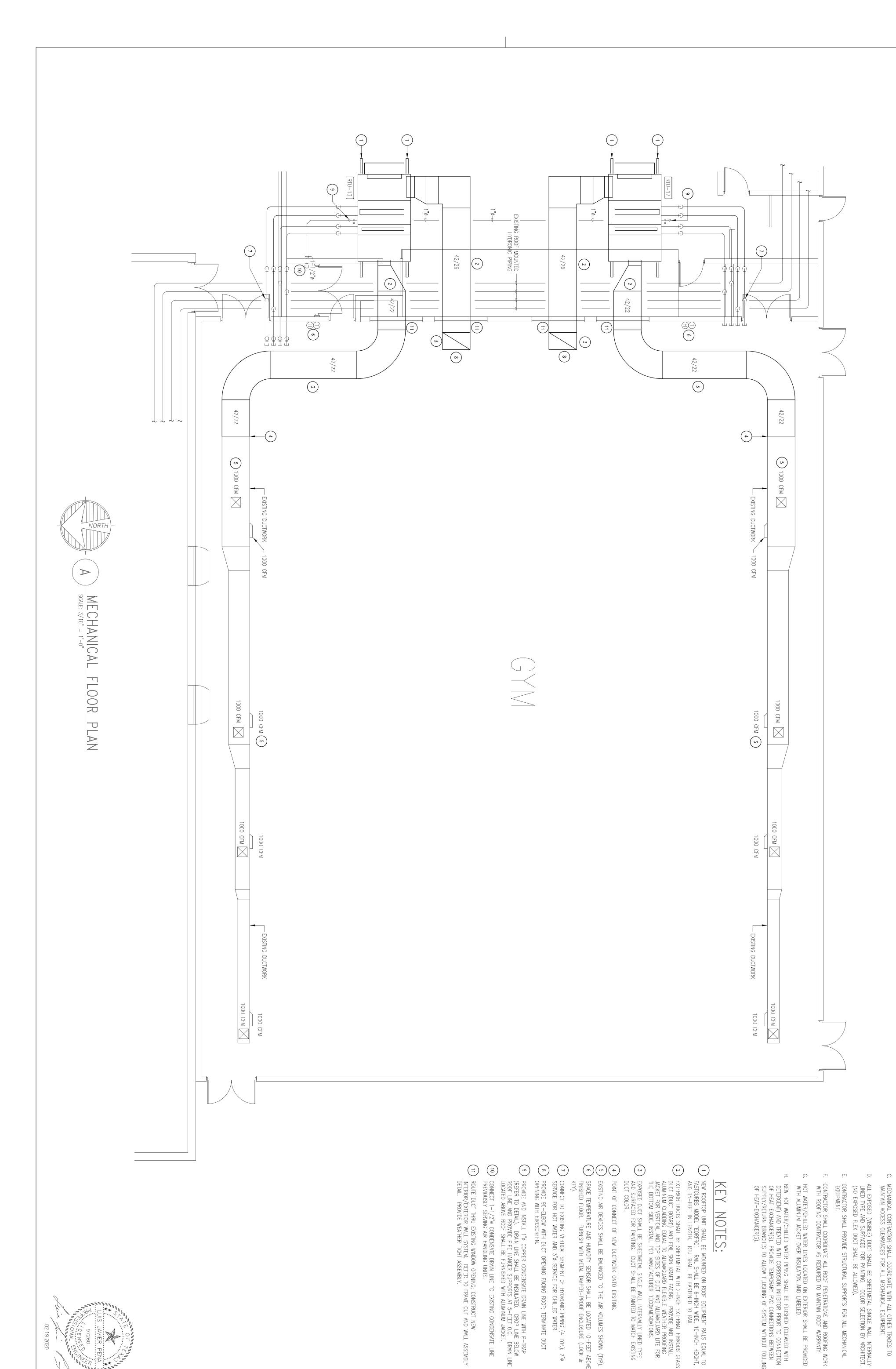
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CONTRACTOR SHALL PROVIDE ALL NECESSARY TRANSITIONS FROM MECHANICA EQUIPMENT TO DUCTS. VERIFY EQUIPMENT OUTLET/INLET SIZE WITH SCHEDULE.

REFER TO SCHEDULE SHEET FOR ADDITIONAL GENERAL MECHANICAL NOTES

GENERAL

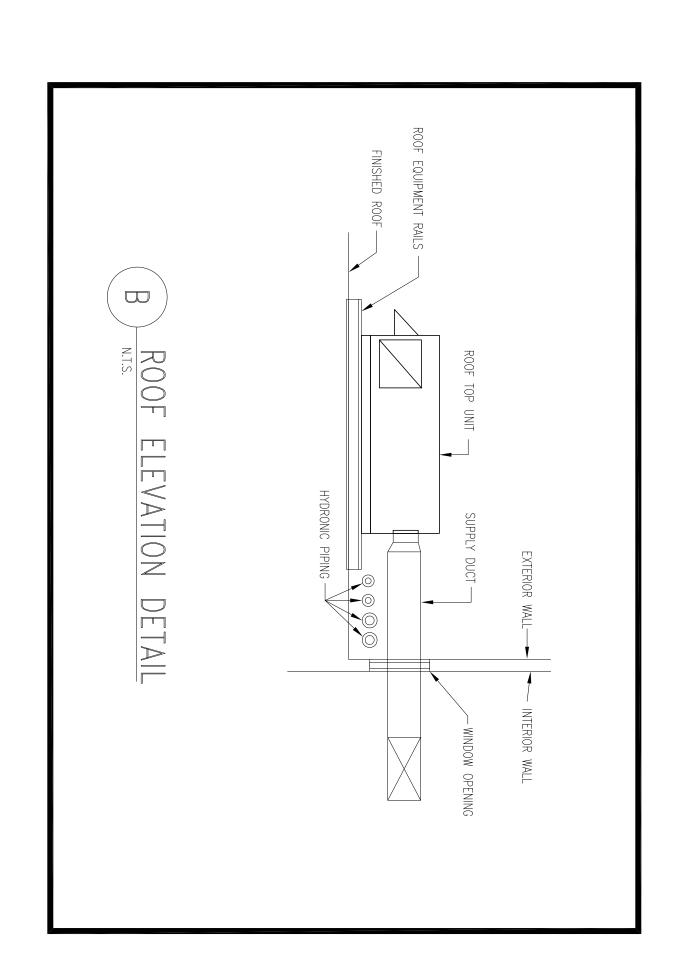
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ENGINEERING MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS 600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727 TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748 GYM A/C IMPROVEMENTS

ACCU	DB	77	FDH	EF EDH	EF FCU
AIR COOLED CONDENSING UNIT		DRY BULB	DRY BULB ELECTRIC DUCT HEATER	DRY BULB ELECTRIC DUCT HEATER EXHAUST FAN	DRY BULB ELECTRIC DUCT HEATER EXHAUST FAN FAN COIL UNIT
	MAX	M MAX	MIN MAX	MIN NTS	MIN NTS OBD S.P.
	MAXIMUM	MINIMUM	MAXIMUM NOT TO SCALE	MAXIMUM MINIMUM NOT TO SCALE OPPOSED BLADE DAMPER	MAXIMUM MINIMUM NOT TO SCALE OPPOSED BLADE DAMPER STATIC PRESSURE

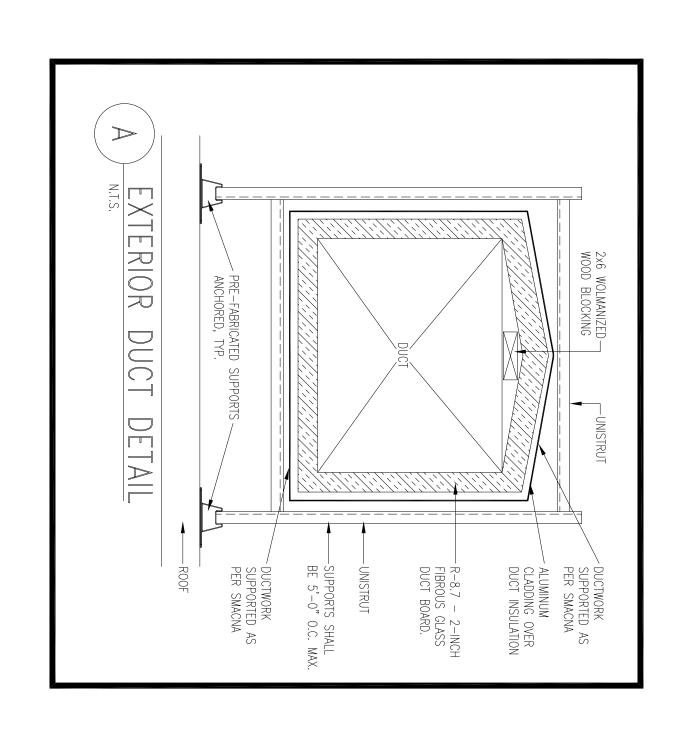
	GENERAL MECHANICAL NOTES
<u>.</u> →	THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION EFFORTS. PROVIDE ALL NECESSARY OFFSETS AND FITTINGS AS REQUIRED BY FIELD CONDITIONS.
2.	. CONTRACTOR SHALL HANG AND INSTALL ALL DUCTWORK TIGHT WITH THE BUILDING STRUCTURE TO ACCOMODATE CEILINGS. CONTRACTOR SHALL COORDINATE INSTALLATION WORK WITH ALL OTHER TRADES. ALL DUCTWORK SHALL BE MODIFIED AS REQUIRED TO FIT AROUND BUILDING STRUCTURES.
3.	. CONTRACTOR SHALL BALANCE ALL AIR DISTRIBUTION SYSTEMS TO ACHIEVE THE AIR VOLUME REQUIREMENTS AS INDICATED. BALANCING SHALL INCLUDE ADJUSTMENT OF ALL MANUAL VOLUME DAMPERS AND INDIVIDUAL DIFFUSER DAMPERS.
4.	CONTRACTOR SHALL MOUNT ALL THERMOSTATS 48-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COORDINATE THE FINAL LOCATION OF EACH THERMOSTAT WITH ROOM FINISHES. PROVIDE ALL CONTROL VOLTAGE WIRING FOR THERMOSTAT INSTALLATION.
5.	. CONTRACTOR SHALL COORDINATE THE FINAL LOCATIONS OF ALL CEILING AIR DEVICES WITH LIGHTING INSTALLATIONS AND ARCHITECTURAL CEILING PLANS. AIR DEVICES SHALL BE RELOCATED IF REQUIRED TO AVOID OBSTRUCTION WITH DUCTWORK AND LIGHT FIXTURES.
6.	PROVIDE SMOKE DETECTORS AND SHUTDOWN CONTROLS ON AIR HANDLING UNITS. SMOKE DETECTORS SHALL BE PROVIDED, INSTALLED, AND WIRED FOR SHUTDOWN BY DIVISION 16.

	MECHANICAL SYMBOLS	SYMBC	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TEMPERATURE SENSOR		EXHAUST AIR DUCT
	SUPPLY AIR DEVICE (SEE SCHEDULE)		RETURN AIR DUCT
	RETURN/TRANSFER AIR DEVICE (SEE SCHEDULE)		SUPPLY AIR DUCT
	EXHAUST FAN (SEE SCHEDULE)	X/X	DUCT INTERNAL DIMENSIONS (WIDTH/DEPTH)
Ħ	RECTANGULAR DUCT TRANSITION		ROUND BRANCH DUCT WITH MANUAL BALANCING DAMPER
	ROUND FLEX DUCT	[53][7] [2] [8]	ROOF TOP UNIT (SEE SCHEDULE)
T _{AVG} .	AVERAGING TEMPERATURE SENSOR	ī	THERMOSTAT

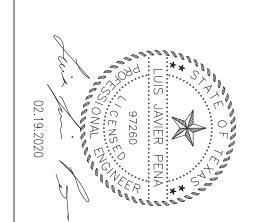


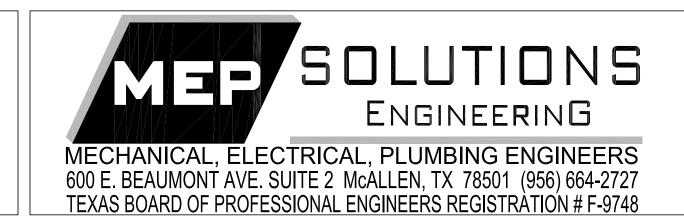
STATIC PRESSURE DROP (FOR FAN SIZE)	0.59	0.59
OVERALL UNIT		
VOLTAGE/PHASE	460/3ø	460/3ø
MAX FACE VELOCITY (FPM)	500	500
MANUFACTURER	DAIKIN	DAIKIN
MODEL	OAH017GDAC	OAH017GDAC
UNIT WEIGHT (LBS)	2,800	2,800
REMARKS	1,2,3,4,5	1,2,3,4,5
סבואסוגס		

RI	J SCHEDULE	
AIR HANDLING UNIT DESIGNATION	RTU-12	RTU-13
FAN SECTION		
SUPPLY CFM	8,000	8,000
OUTSIDE AIR CFM (MIN/MAX)	1,100 / 1,100	1,100 / 1,100
EXTERNAL S.P. ("W.G.)	0.6	0.6
MOTOR HP.	7.5	7.5
MOTOR BHP.	7.17	7.17
DRIVE TYPE	BELT	BELT
FAN TYPE	DWDI AIRFOIL	DWDI AIRFOIL
COOLING COIL SECTION		
COIL TYPE	CHILLED WATER	CHILLED WATER
TOTAL CAPACITY (MBH)	312.9	312.9
SENSIBLE CAPACITY (MBH)	219.2	219.2
ENTERING AIR (DB/WB)°F	80/67	80/67
LEAVING AIR (DB/WB)°F	55/54	55/54
ROWS (MIN)/FINS PER INCH (MAX)	5/9	5/9
GALLONS PER MINUTE	60	60
WATER PRESSURE DROP (MAX)	15	15
EWT/LWT (°F)	44/54	44/54
HEATING COIL SECTION		
COIL TYPE	HOT WATER	HOT WATER
TOTAL CAPACITY (MBH)	137.9	137.9
ENTERING AIR/LEAVING AIR (DB)°F	75/90	75/90
ROWS (MIN)/FINS PER INCH (MAX)	1/9	1/9
GALLONS PER MINUTE	22.4	22.4
WATER PRESSURE DROP (MAX)	5	ڻ ن
EWT/LWT (°F)	160/147	160/147
FILTER SECTION		
FILTER TYPE	2"-30%	2"-30%
STATIC PRESSURE DROP (CLEAN)	0.18	0.18
STATIC PRESSURE DROP (FOR FAN SIZE)	0.59	0.59
OVERALL UNIT		
VOLTAGE/PHASE	460/3ø	460/3ø
MAX FACE VELOCITY (FPM)	500	500
MANUFACTURER	DAIKIN	DAIKIN
MODEL	OAHO17GDAC	OAH017GDAC
UNIT WEIGHT (LBS)	2,800	2,800
REMARKS	1,2,3,4,5	1,2,3,4,5



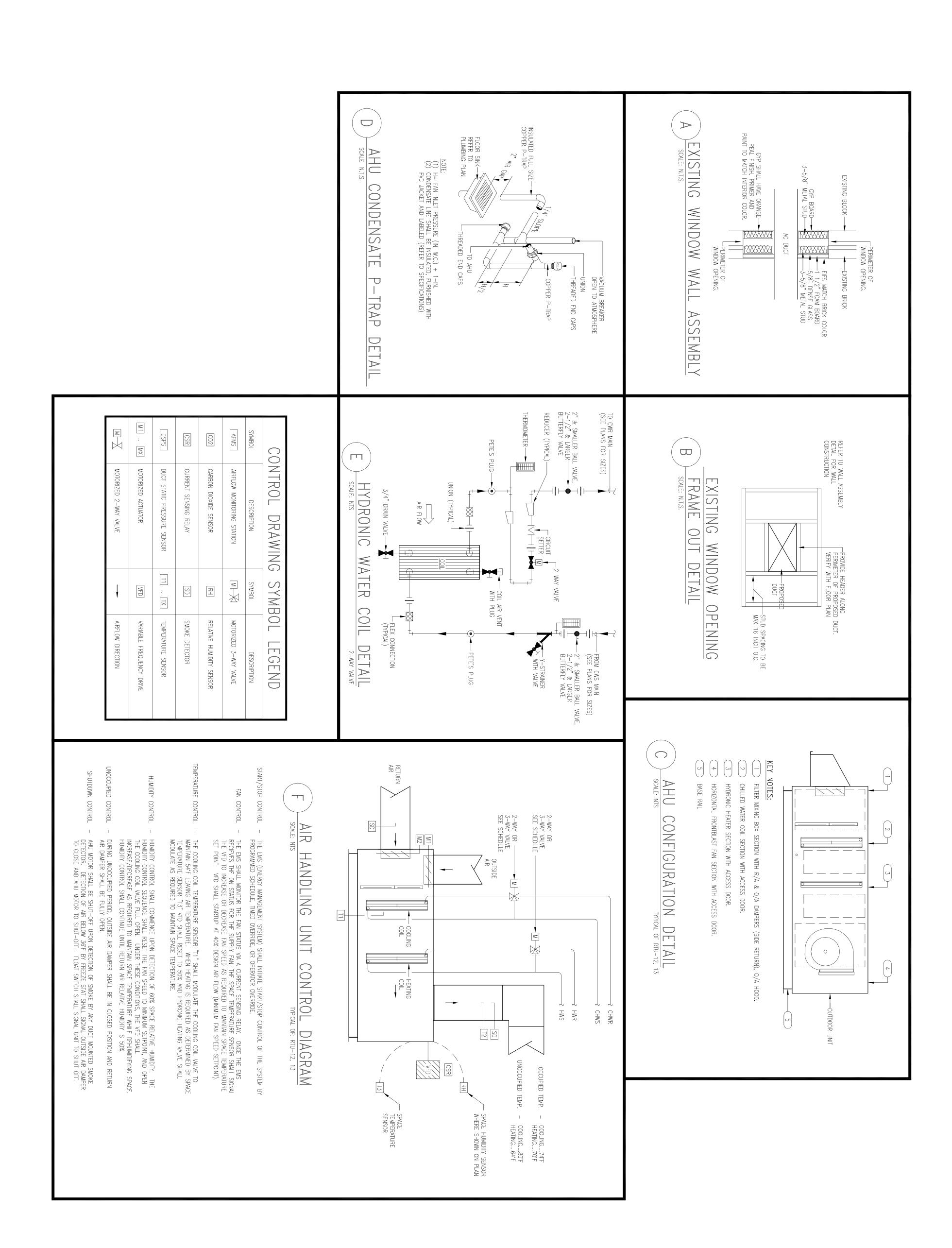
ESIGNATION EQUIPMENT EQUIPMENT VFD LOCATION HP VOLTAGE ENCLOSURE MANUFACTURER MODEL VFD—12 FAN OUTDOOR 7.5 460/3¢ NEMA—3R YASKAWA Z1000 VFD—13 RTU—13 FAN OUTDOOR 7.5 460/3¢ NEMA—3R YASKAWA Z1000			VARIABLE	T REQU	FREQUENCY DRIVE SCH		U		
RTU−12 FAN OUTDOOR 7.5 460/3¢ NEMA−3R YASKAWA RTU−13 FAN OUTDOOR 7.5 460/3¢ NEMA−3R YASKAWA	ESIGNATION	EQUIPMENT SERVED	EQUIPMENT TYPE	VFD LOCATION	HP	VOLTAGE	ENCLOSURE	MANUFACTURER	MODEL
RTU-13 FAN OUTDOOR 7.5 460/3¢ NEMA-3R YASKAWA	FD-12	RTU-12	FAN	OUTDOOR	7.5	460/3ø	NEMA-3R	YASKAWA	Z1000
	FD-13	RTU-13	FAN	OUTDOOR	7.5	460/3ø	NEMA-3R	YASKAWA	Z1000

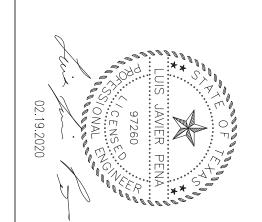


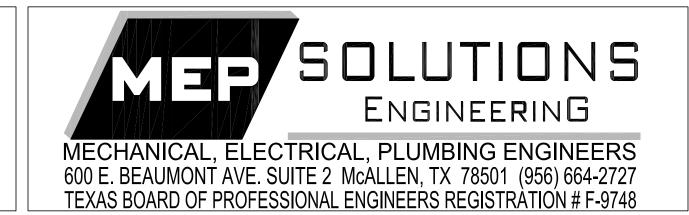


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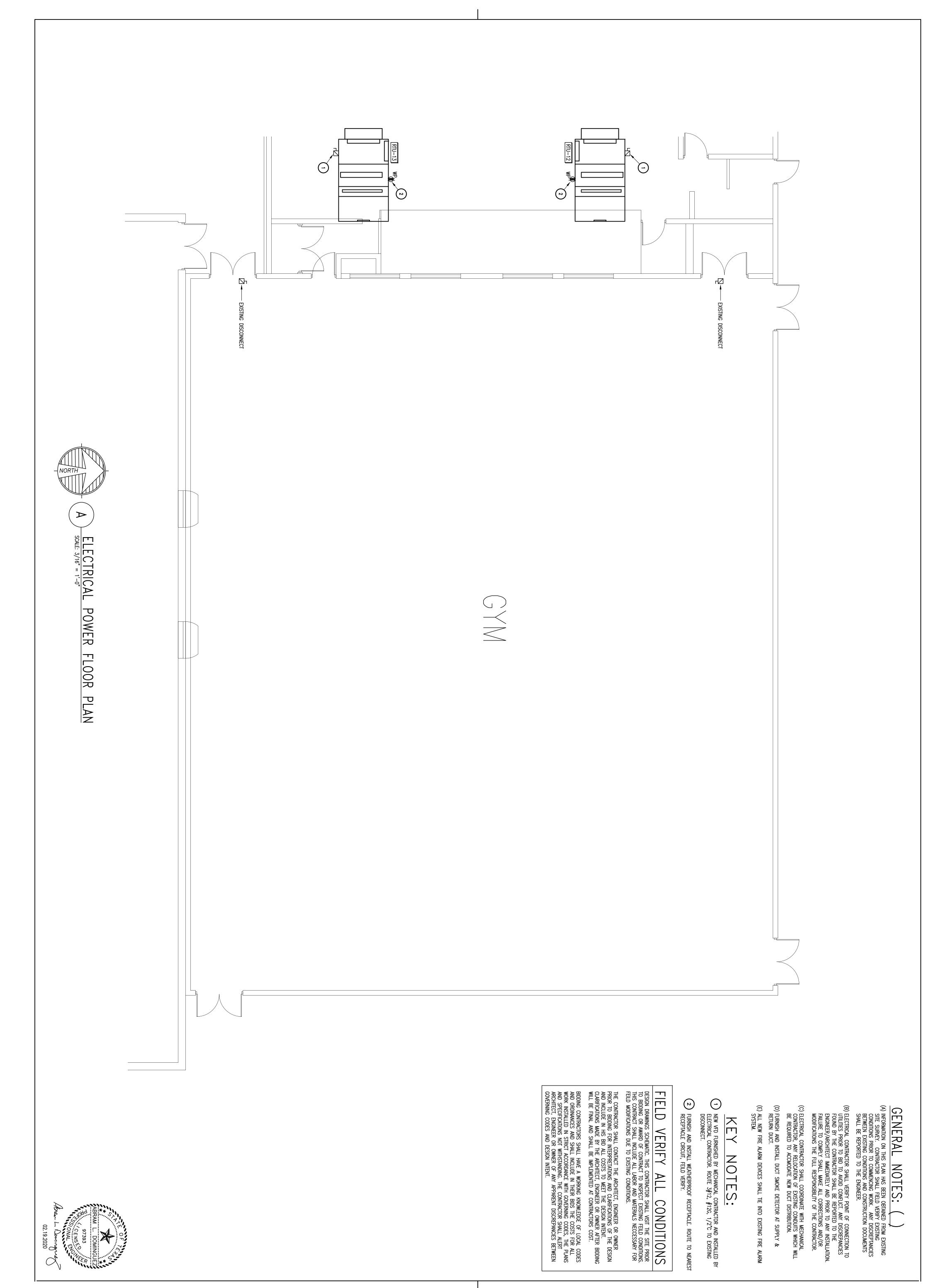


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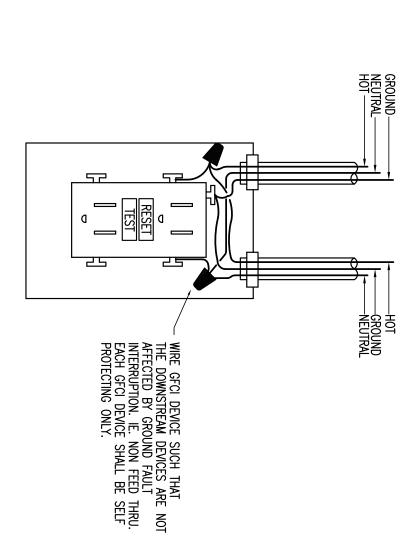
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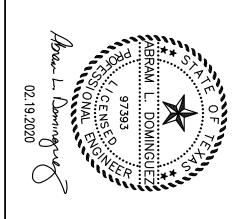
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	STANDESS SERVES SERVES NOW STREAMS AND MANY OF ST. DESCRIPTION DESC	SHUNT TRIP		FUSE		48" AFF	PUSHBUTTON	•
224 In the fource of decreased dec	SAMELS ARE SHAME SHEWAY & DAWN NOT BE TO SOLE.	SPARE UNLT		EXISTING		1	OUTLET BOX	
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WIRING DIAGRAM

ELECTRICAL SCALE: N.T.S.

LEGEND





SOLUTIONS ENGINEERING MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS 600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727 TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

EDINBURG CISD BARRIENTES MS

EDINBURG, TEXAS

20003 02/19/2020 A.D./M.G.

GYM A/C IMPROVEMENTS

GENERAL

- 1. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIE DOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.
- 2. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE
- SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. 3. EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF THE INVOLVED TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS TO BE BORNE BY THE APPROPRIATE CONTRACTOR
- 4. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER,
- 5. REFER TO THE ARCHITECTURAL, MECHANICAL ELECTRICAL AND PLUMBING FOR SLEEVES, CURBS, INSERTS, ETC. NOT SHOWN ON STRUCTURAL DRAWINGS. 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND BE RESOLVED BEFORE PROCEEDING WITH ANY WORK.
- 7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES
- 8. THE STRUCTURAL INTEGRITY OF ANY BUILDING RELIES ON THE FULL INTERACTION OF ALL ITS COMPONENT PARTS, WITH NO PROVISIONS MADE FOR CONDITIONS AND/OR SEQUENCES OF CONSTRUCTION AND THE STRUCTURAL DESIGN IS BASED ON THIS PREMISE. THEREFORE THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING OF SUPERSTRUCTURED DURING CONSTRUCTION. 9. CONTRACTOR SHALL BE RESPONSIBLE FOR RIGID BRACING OF ALL WALLS,
- FORMWORK, SHORING AND FALSE WORK DURING CONSTRUCTION. 10. CONTRACTOR SHALL VERIFY ALL DROPS, OFFSETS, BLOCKOUTS, FINISHES, AND DIMENSIONS. WITH ARCHITECTURAL PLANS PRIOR TO PROJECT LAYOUT. 11. THE USE OF REPRODUCTION OF THESE CONTRACT DRAWINGS BY ANY
- CONTRACTOR, ERECTOR, FABRICATOR OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, DUE TO ANY ERRORS THAT MAY OCCUR.
- 12. CONTRACTOR IS RESPONSIBLE FOR ALL METHODS AND PROCEDURES DURING CONSTRUCTION. CONTRACTOR SHALL TAKE ALL NECCESSARY PRECAUTIONS TO MAINTAIN INTEGRITY OF STRUCTURE DURING CONSTRUCTION.
- 13. ALL MATERIAL AND WORKMANSHIP SHALL COMPLY WITH THE DRAWINGS, SPECIFICATIONS AND REFERENCE CODE. 14. STRUCTURAL MEMBERS HAVE BEEN LOCATED AND DESIGNED TO ACCOMMODATE
- THE MECHANICAL EQUIPMENT AND OPENINGS SPECIFIED BY THE MECHANICAL CONSULTANT. ANY SUBSTITUTIONS RESULTING IN REVISIONS TO THE STRUCTURE SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR TO COORDINATE WITH THE STRUCTURAL ENGINEER. 15. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL DETERMINE THE
- SCOPE OF THE STRUCTURAL WORK FROM THE CONTRACT DOCUMENTS TAKEN AS A WHOLE INCLUDING ARCHITECTURAL AND MECHANICAL DRAWINGS. THE STRUCTURAL SHALL NOT BE CONSIDERED SEPARATELY FOR THE PURPOSES OF BIDDING THE STRUCTURAL WORK. CONTRACTOR SHALL REVIEW THE ENTIRE DRAWING PACKAGE IN ORDER TO DETERMINE THE SCOPE OF STRUCTURAL WORK INCLUDING NECCESSARY COORDINATION SHOWN IN OTHER CONSULTANT DRAWINGS.
- 16. NOTED SCALES ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL NOT SCALE THE DRAWINGS FOR THE PURPOSE OF DETERMINING
- DIMENSIONAL INFORMATION 17. ANY ALTERNATES ACCEPTED BY THE OWNER, GENERAL CONTRACTOR OF SUBCONTRACTOR SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE.
- 18. PRINCIPAL OPENINGS ARE INDICATED ON THE STRUCTURAL DRAWINGS. OTHER OPENINGS (SLEEVES, BLOCKOUTS, ETC.) ARE SHOWN IN THE ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR SHALL SUBMIT TO ARCHITECT AND ENGINEER A PLAN WITH ALL PROPOSED OPENINGS COORDINATED WITH ALL THE TRADES. ADDITIONAL REINFORCEMENT AND/OR STRUCTURAL MEMBERS MAY BE REQUIRED UPON REVIEW.

COORDINATION

- 1. ONLY LARGER SLEEVE OPENINGS AND FRAMED OPENINGS IN STRUCTURAL FRAMING COMPONENET MEMBERS ARE INDICATED ON THE STRUCTURAL DRAWINGS. HOWEVER, ALL SLEEVES, INSERTS AND OPENINGS, INCLUDING FRAMES AND/OR SLEEVES SHALL BE PROVIDED FOR PASSAGE, PROVISION AND/OR INCORPORATION OF THE WORK OF THE CONTRACT, INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING WORK. THIS WORK SHALL INCLUDE THE COORDINATION OF SIZES. ALIGNMENT, DIMENSIONS, POSITION, LOCATIONS, ELEVATIONS AND GRADES AS REQUIRED TO SERVE THE INTENDED PURPOSE. OPENINGS NOT INDICATED ON THE STRUCTURAL DRAWINGS, BUT REQUIRED AS NOTED ABOVE, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
- 2. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR FLOOR ELEVATIONS, SLOPES, DRAINS AND LOCATION OF DEPRESSED AND ELEVATED FLOOR AREAS.
- 3. COMPABILITY OF THE STRUCTURE AND PROVISIONS FOR BUILDING EQUIPMENT SUPPORTED ON OR FROM STRUCTURAL COMPONENTS SHALL BE VERIFIED AS TO SIZE, DIMENSIONS, CLEARANCES, ACCESSIBILITY, WEIGHTS AND REACTION WITH THE EQUIPMENT FOR WHICH THE STRUCTURE HAS BEEN DESIGNED PRIOR TO SUBMISSION OF SHOP DRAWINGS AND DATA FOR EACH PIECE OF EQUIPMENT AND FOR STRUCTURAL COMPONENTS. DIFFERENCES SHALL BE NOTED ON THE SUBMITTALS.
- 4. SHOP DRAWINGS SHALL BE PREPARED FOR ALL STRUCTURAL ITEMS AND SUBMITTED FOR REVIEW BY THE ENGINEER. CONTRACT DRAWINGS SHALL NOT BE REPRODUCED AND USED AS SHOP DRAWINGS. ALL ITEMS DEVIATING FROM THE CONTRACT DRAWINGS OR FROM PREVIOUSLY SUBMITTED SHOP DRAWINGS SHALL BE CLOUDED.
- 5. THE DETAILS DESIGNATED AS "TYPICAL DETAILS" APPLY GENERALLY TO THE DRAWINGS IN ALL AREAS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAILS.
- 6. THE DESIGN AND PROVISION OF ALL TEMPORARY SUPPORTS SUCH AS GUYS, BRACES, FALSEWORK, SUPPORTS AND ANCHORS FOR SAFETY LINES, CRIBBING, OR ANY OTHER TEMPORARY ELEMENTS REQUIRED FOR THE EXECUTION OF THE CONTRACT ARE NOT INCLUDED IN THESE DRAWINGS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. TEMPORARY SUPPORTS SHALL NOT RESULT IN THE OVERSTRESS OR DAMAGE OF THE ELEMENTS TO BE BRACED NOR ANY ELEMENTS USED AS BRACE SUPPORTS.

CODES

- 1. BUILDING CODE: 2012 INTERNATIONAL BUILDING CODE WITH CITY OF EDINBURG, TEXAS AMENDMENTS.
- 2. STRUCTURAL CONCRETE: BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITURE, ACI 318.
- 3. STRUCTURAL STEEL: MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN, AMERICAN INSTITUTE OF STEEL CONSTRUCTION, NINITH EDITION.
- 4. ASCE 7-05

GENERAL NOTES

DESIGN CRITERIA

1. FRAMING DESIGN IS IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE 2012.

 REFERENCES: AWS D1.1-86 - "STRUCTURAL WELDING CODE - STEEL" AWS D1.3-81 - "STRUCTURAL WELDING CODE - SHEET STEEL"

2. ALL WELDING BY AWS QUALIFIED OPERATORS.

1. WELDING SHALL CONFORM TO ANSI/AWS DI.I, LATEST EDITION.

STRUCTURAL STEEL CONNECTIONS

- 2. BOLTS SHALL CONFORM TO ASTM A325. BOLTS SHALL BE DESIGNED USING VALUES FOR BEARING TYPE BOLTS WITH THREAD ALLOWED IN THE SHEAR
- 3. ANCHOR BOLTS SHALL BE: ASTM F1554 GR. 36
- 4. STRUCTURAL STEEL CONNECTION NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED AND DETAILED BY THE CONTRACTOR UNDER THE DIRECT SUPERVISION OF A REGISTERED ENGINEER LICENSED IN THE STATE OF TEXAS. SEALED CALCULATIONS FOR ALL CONNECTIONS DESIGNED BY THE CONTRACTOR SHALL BE SUBMITTED FOR THE ARCHITECT'S FILES.
- 5. BEAM CONNECTIONS SHALL BE DESIGNED AND DETAILED AS FOLLOWS, UNLESS NOTED OTHERWISE ON THE DRAWINGS:
- A. CONNECTION SHALL BE AISC TYPE 2 SIMPLE FRAMING CONNECTIONS. SHEAR TAB CONNECTIONS SHALL NOT BE USED.
- B. IN GENERAL, SHOP CONNECTIONS SHALL BE BOLTED OR WELDED AND FIELD CONNECTIONS SHALL BE BOLTED.
- C. WHERE INDICATED, CONNECTIONS SHALL BE DESIGNED FOR THE SCHEDULED SHEAR FORCE, THE SHEAR FORCE INDICATED ON THE DRAWINGS AS "V=", AND THE HORIZONTAL FORCE INDICATED AS
- D. IF NOT INDICATED ON THE DRAWINGS, CONNECTIONS SHALL BE DESIGNED FOR 55 PERCENT OF THE TOTAL LOAD CAPACITY FOR THE BEAM SPAN SHOWN IN THE BEAM TABLES IN SECTION 2 OF THE AISC MANUAL,
- E. THE MINIMUM NUMBER OF ROWS OF BOLTS SHALL BE 1/6 OF THE BEAM DEPTH WITH ANY FRACTION BE ROUNDED TO THE NEXT HIGHER NUMBER.
- F. BOLTS SHALL BE "SNUG TIGHT", U.N.O.
- G. SHORT SLOTTED HOLES SHALL BE PERMITTED PROVIDED WASHERS ARE INSTALLED IN ACCORDANCE WITH AISC REQUIREMENTS. WASHERS SHALL BE HARDENED WHERE A325 BOLTS ARE UTILIZED.
- 6. WIND BRACE CONNECTION SHALL BE DESIGNED AND DETAILED AS FOLLOWS, UNLESS NOTED OTHERWISE ON THE DRAWINGS:
- A. CONNECTIONS SHALL BE WELDED.
- B. CONNECTIONS SHALL BE DESIGNED AND DETAILED FOR THE FORCES SHOWN ON THE DRAWINGS.
- C. IF FORCES ARE NOT INDICATED ON THE DRAWINGS, CONNECTIONS SHALL BE DESIGNED TO DEVELOP THE FULL TENSILE CAPACITY OF THE
- 7. FOR CONNECTIONS NOT SPECIFICALLY ADDRESSED BY THESE NOTES OR THE DRAWINGS, PROVIDE FILLET WELDS AT ALL CONTACT SURFACES SUFFICIENT TO DEVELOP THE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE
- 8. MOMENT CONNECTIONS INDICATED ON DRAWINGS SHALL BE WELDED TO DEVELOP THE FULL CAPACITY OF THE MEMBER.
- 9. ROOF EDGE ANGLES SHALL BE CONTINOUS AND SHALL BE SPLICED ONLY AT SUPPORTS. SPLICES SHALL BE BUTT WELDED TO DEVELOP FULL CAPACITY OF THE MEMBER.
- 10. FILLET WELDS WITH NO SIZE SPECIFIED SHALL BE 3/16" OR MINIMUM SIZE REQUIRED BY AISC, WICHEVER IS LARGER.

STRUCTURAL STEEL

MATERIALS:

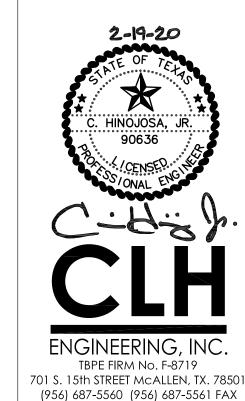
A. STRUCTURAL STEEL: W SECTIONS ASTM- A572 FY= 50 KSI HSS SECTIONS ASTM- A500 GRADE B ALL OTHER SECTIONS ASTM- A36 HIGH STRENGTH BOLTS: ASTM A325 OR A490 ANCHOR BOLTS: ASTM A307 OR A36: ELECTRODES: SERIES E70

STRUCTURAL PIPES: ASTM A53 OR A501, FY = 35 KSI EXPANSION BOLTS: HILTI "KWIK BOLTS" OR APPROVED EQUAL. 2. SPECIFICATIONS: WELDING PERSONNEL AND PROCEDURES ARE TO BE

- QUALIFIED PER AWS D1.1. UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION TO BE GOVERNED BY
- A. AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (JUNE 1, 1989). B. AISC CODE OF STANDARD PRACTICE (SEPTEMBER 1, 1986). STRUCTURAL WELDING CODE AWS D1.1-88 OF THE AMERICAN WELDING SOCIETY D. SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS (NOVEMBER 13, 1985).
- CONNECTIONS: A. CONNECTIONS TO BE DESIGNED BY THE FABRICATOR TO DEVELOP FULL STRENGTH OF MEMBER.
- FOLLOW INSTRUCTIONS ON DRAWINGS FOR GENERAL ARRANGEMENT OR PARTICULAR DETAILS. FIELD CONNECTIONS TO BE BOLTED. SHOP CONNECTIONS TO BE WELDED OR BOLTED.
- B. FULL PENETRATION AND PARTIAL PENETRATION FIELD WELDS IN MATERIAL OVER 5/16 INCH THICK SHALL BE SUBJECT TO NON-DESTRUCTIVE TESTING (OTHER THAN VISUAL INSPECTION) BY AN INDEPENDENT LABORATORY.
- C. ALL BOLTS IN BRACED FRAMES AND BOLTS IN SHEAR CONNECTIONS USED IN CONJUNCTION WITH FULL PENETRATION FLANGE WELDS SHALL BE SLIP CRITICAL (FRICTION) TYPE.
- A. DO NOT PAINT ANY STEEL WHICH WILL BE CONCEALED FROM VIEW. PAINT ALL
- VISIBLE STEEL GRAY. 5. GALVANIZING: ALL SHELF ANGLES, LINTELS IN EXTERIOR WALLS, AND ALL EXTERIOR STEEL EXPOSED TO THE ELEMENTS SHALL BE GALVANIZED.
- 6. MISCELLANEOUS: A. PROVIDE HOLES FOR OTHERS. IF OPENING IS NOT SHOWN ON THE STRUCTURAL
- DRAWINGS, OBTAIN PRIOR APPROVAL. B. STEEL SUPPORTING OR CONNECTED TO HVAC AND OTHER EQUIPMENT AND ROOF OPENINGS AS SHOWN ON THE DRAWINGS IS SHOWN FOR BIDDING
- PURPOSES ONLY. CONTRACTOR SHALL RECONCILE EXACT SIZE AND LOCATION BEFORE PROCEEDING WITH HIS WORK. C. GROUT UNDER BEARING PLATES, BASE PLATES, AND SETTING PLATES TO BE
- NON-SHRINKING TYPE D. STEEL BELOW GRADE TO BE PROTECTED BY A MINIMUM OF 3 INCHES OF
- E. PROVIDE 1/4 INCH THICK SETTING PLATES FOR ALL BEAMS BEARING ON MASONRY WHICH DO NOT REQUIRE A BEARING PLATE
- F. PROVIDE SHOP WELDED ANCHORS FOR ATTACHMENTS OF MASONRY, SPACING TO BE 16 INCHES ON COLUMNS AND BEAMS.
- G. PROVIDE HEAVY WASHER AT ALL ANCHOR BOLTS. H. FINISH ENDS OF ALL COLUMNS, STIFFENERS AND ALL OTHER MEMBERS IN
- DIRECT BEARING. I. PROVIDE BOLT HOLES FOR JOISTS BOLTED TO BEAMS AND ATTACHMENT FOR JOINING EXTENDED JOIST BOTTOM CHORDS.
- J. MINIMUM BEAM BEARING ON MASONRY = 8 INCHES UNLESS NOTED OTHERWISE. L. EMBEDMENT LENGTH OF EXPANSION BOLTS INTO SOLID MASONRY OR
- CONCRETE SHALL BE AS FOLLOWS: 1/2 INCH DIAMETER BOLTS --- 3 1/2 INCHES EMBEDMENT
- 3/4 INCH DIAMETER BOLTS --- 5 INCHES EMBEDMENT M. PROVIDE 8,000 LBS. OF RED IRON ALLOWANCE. ALLOWANCE SHALL INCLUDE
- N. PROVIDE ADEQUATE AND APPROPRIATE STRUCTURAL STEEL FRAMING APPROVED BY THE ENGINEER, FOR THE SUPPORT AND MOUNTING OF MECHANICAL EQUIPMENT ESTING ON, OR SUSPENDED FROM, STEEL JOISTS, MAXIMUM WEIGHT TO BE HUNG OFF JOISTS BETWEEN "PANEL POINTS" (THE JUNCTURES OF CHORDS AND DIAGONAL WEB MEMBERS) IS 50 LBS. LOADS IN EXCESS OF 50 LBS. REQUIRED JOISTS TO BE MODIFIED OR STRENGTHENED TO CARRY SUCH LOADS.
- O. STEEL STAIRS TO BE DESIGNED AND DETAILED FOR LL=100 PSF BY STEEL FABRICATOR UNDER DIRECT SUPERVISION OF A REGISTERED PROFESSIONA ENGINEER. SHOP DRAWINGS TO BE SIGNED AND SEALED BY THE SPECIALTY ENGINEER.
- P. QUALITY ASSURANCE:
- A) INSTALLER QUALIFICATIONS: A QUALIFIED INSTALLER SPECIALIZING IN PERFORMING THE WORK OF THIS SECTION WITH A MINIMUM 5 YEARS DOCUMENTED EXPERIENCE B) FABRICATOR QUALIFICATIONS: A QUALIFIED FABRICATOR, SPECIALIZING IN PERFORMING THE WORK OF THIS SECTION WITH A MINIMUM OF 10 YEARS DOCUMENTED EXPERIENCE, THAT PARTICIPATES IN THE AISC QUALITY CERTIFICATION
- PROGRAM AND IS DESIGNATED AN AISC-CERTIFIED PLANT, CATEGORY STD. C) WELDING: QUALITY PROCEDURES AND PERSONNEL ACCORDING TO AWS D1.1 "STRUCTURAL WELDING CODE-STEEL.
- Q. STRUCTURAL FRAMING CONNECTIONS SHALL BE SEATED COLUMN CAPS, CLIP ANGLES WEB PLATES AS SHOWN ON DETAILS. USE A325 HIGH STRENGTH BOLTS OR WELDS SUFFICIENT TO DEVELOP REACTION CAPACITY SHOWN IN AISC MANUAL (9TH EDITION) AS THE ALLOWABLE UNIFORM LOAD/SPAN DIVIDED BY TWO AS SHOWN IN THE (9TH EDITION) OR THE MAXIMUM TOTAL UNIFORM LOAD/SPAN DIVIDED BY TWO AS SHOWN IN TABLES 3-6 THROUGH 3-9 OF THE 13TH EDITION (ASD).

Revision/Issue Date

General Notes

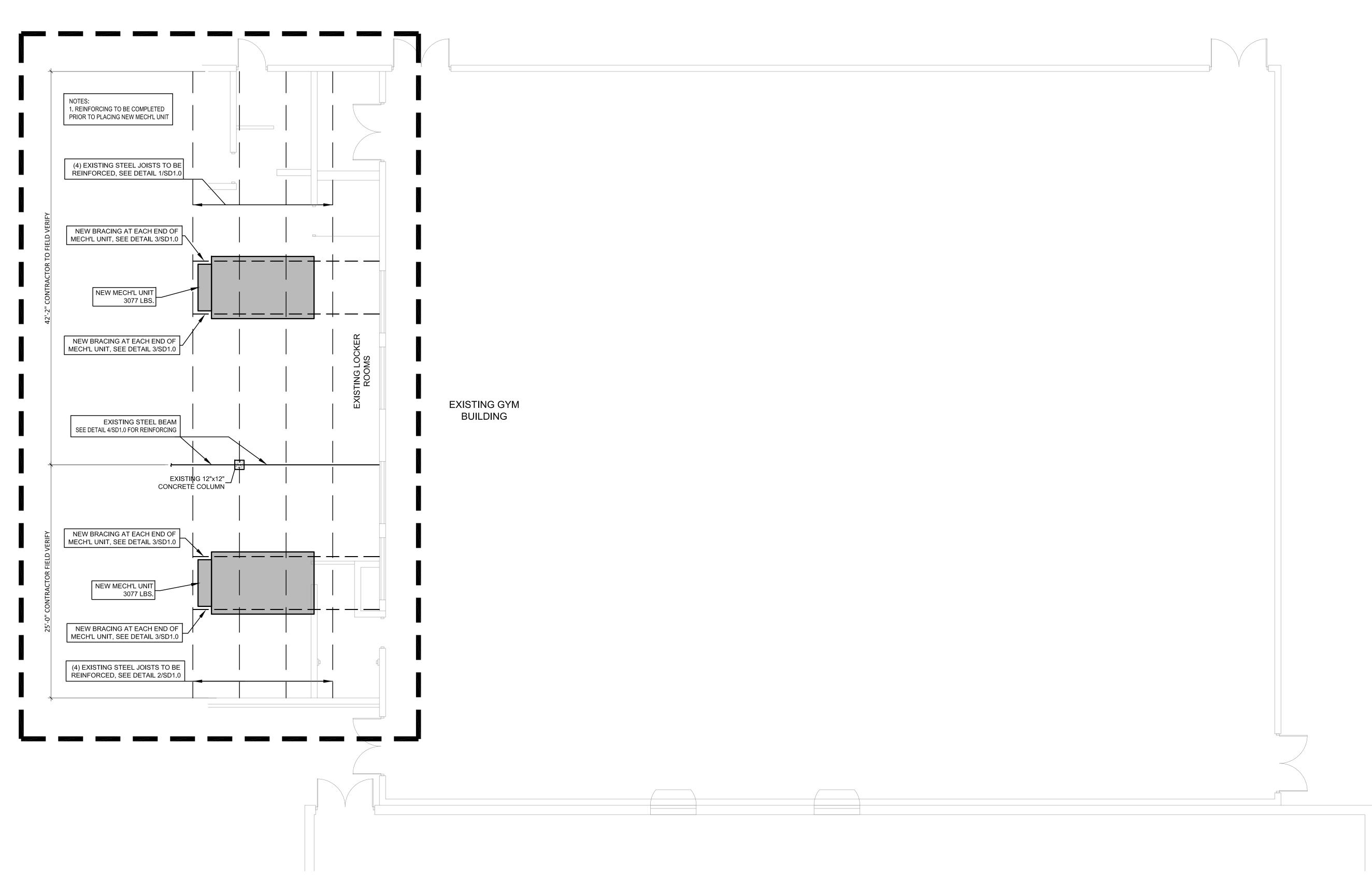


Project Name and Address or Nearest Intersection Barrientes Middle School Gym Hvac improvements

1100 E. Ebony Ln. Edinburg, Texas 78539

As Noted

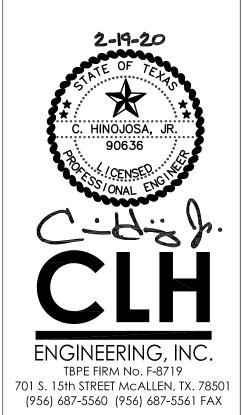
Sheet Title **GENERAL NOTES** February 19, 2020 Scale



REINFORCING PLAN
SCALE 3/16 "=1'-0"

•	Revision/Issue	Date	

General Notes



Project Name and Address or Nearest Intersection

Barrientes Middle School

Gym Hvac improvements

1100 E. Ebony Ln. Edinburg, Texas 78539

Owner

Sheet Title	Sheet
EINFORCING PLAN	
Date	000
February 19, 2020	S2.0

Scale
As Noted

