

PHARR-SAN JUAN-ALAMO ISD BALDEMAR G. CANO
CENTRAL KITCHEN COMPLEX CANOPY ADDITIONS
CONSTRUCTION DOCUMENTS
BID NO. 19-20-028



SCHOOL BOARD

PRESIDENT:.....JESUS "JESSE" ZAMBRANO
VICE-PRESIDENT:.....JORGE "GEORGE" PALACIOS
SECRETARY-TREASURER:.....JORGE ZAMBRANO
ASST. SECRETARY-TREASURER:.....RICARDO "RICK" PEDRAZA
MEMBER:.....VICTOR PEREZ
MEMBER:.....JESUS "JESSE" VELA, JR.
MEMBER:.....CARLOS G. VILLEGAS, JR.

PROJECT TEAM:

OWNER:
PSJA I.S.D.
601 E. KELLY
PHARR, TX 78577
TEL: 956.354.2000
EMAIL: GERARDO.LOPEZ@PSJAISD.US

STRUCTURAL:
HINOJOSA ENGINEERING, INC.
108 W 18TH ST
MISSION, TEXAS 78572
TEL: 956.581.0143
FAX: 956.581.2074
EMAIL: HINOJOSAENGINC@AOL.COM

MEP:
SIGMA HN ENGINEERS, PLLC
701 S 15TH ST
MCALLEN, TEXAS 78501
TEL: 956.332.3206
FAX: 956.687.5561
EMAIL: TONYNICANOR@SIGMAHNE.COM

DATE: 09/20/2019

SCALE:

REVISIONS:

TITLE:

PHARR-SAN JUAN-ALAMO ISD
BALDEMAR G. CANO CENTRAL
KITCHEN COMPLEX CANOPY
ADDITIONS
800 S STEWART RD, SAN JUAN, TX 78589

SHEET INDEX:

STRUCTURAL:
CS: COVER SHEET AND INDEX OF SHEETS
C1: SITE PLAN
D1: DEMOLITION PLAN
S1: GENERAL NOTES
S2: FOUNDATION PLAN
S3: ROOF & FRAMING PLAN
S4: SECTIONS
S5: DETAILS

ELECTRICAL:
E-0.0: ELECTRICAL SPECIFICATION SHEET
ES-1.0: ELECTRICAL SITE PLAN

SEAL:

LOCATION:

ENGINEER: RH
DESIGNER: AT
SURVEYOR:
DRAWN BY: MR
JOB NO.: 19-123
BOOK NO.:

CS

HINOJOSA
ENGINEERING, INC.
STRUCTURAL ENGINEERING
CIVIL ENGINEERING
108 W. 18TH ST.
MISSION, TEXAS
(956) 581-0143
FAX (956) 581-2071
HINOJOSA.ENG@AOL.COM
REGISTRATION NUMBER 6387 EXPIRATION DATE 09/30/2019

INHOJOSA ENGINEERING, INC. EXPRESSLY RESERVES ITS COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS IN THIS DOCUMENT. THIS DOCUMENT SHALL NOT BE REPRODUCED, COPIED, CHANGED OR DISCLOSED IN ANY FORM OR MANNER WHATSOEVER WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF H.E., INC. © 2019



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

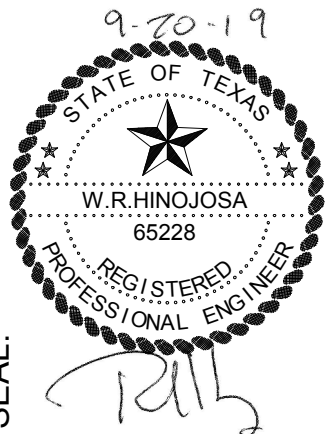
ENGINEER: RH
DESIGNER: AT
SURVEYOR:
DRAWN BY: MR
JOB NO.: 19-123
BOOK NO.:

C1



HINOJOSA
ENGINEERING, INC.
STRUCTURAL ENGINEERING
CIVIL ENGINEERING
MISSION, TEXAS
108 W. 18TH ST.
(956) 581-0143
FAX (956) 581-2071
E-MAIL: info@hinojosa.com
REGISTRATION NUMBER 1387 EXPIRATION DATE 09/30/2019

SEAL:



TITLE:

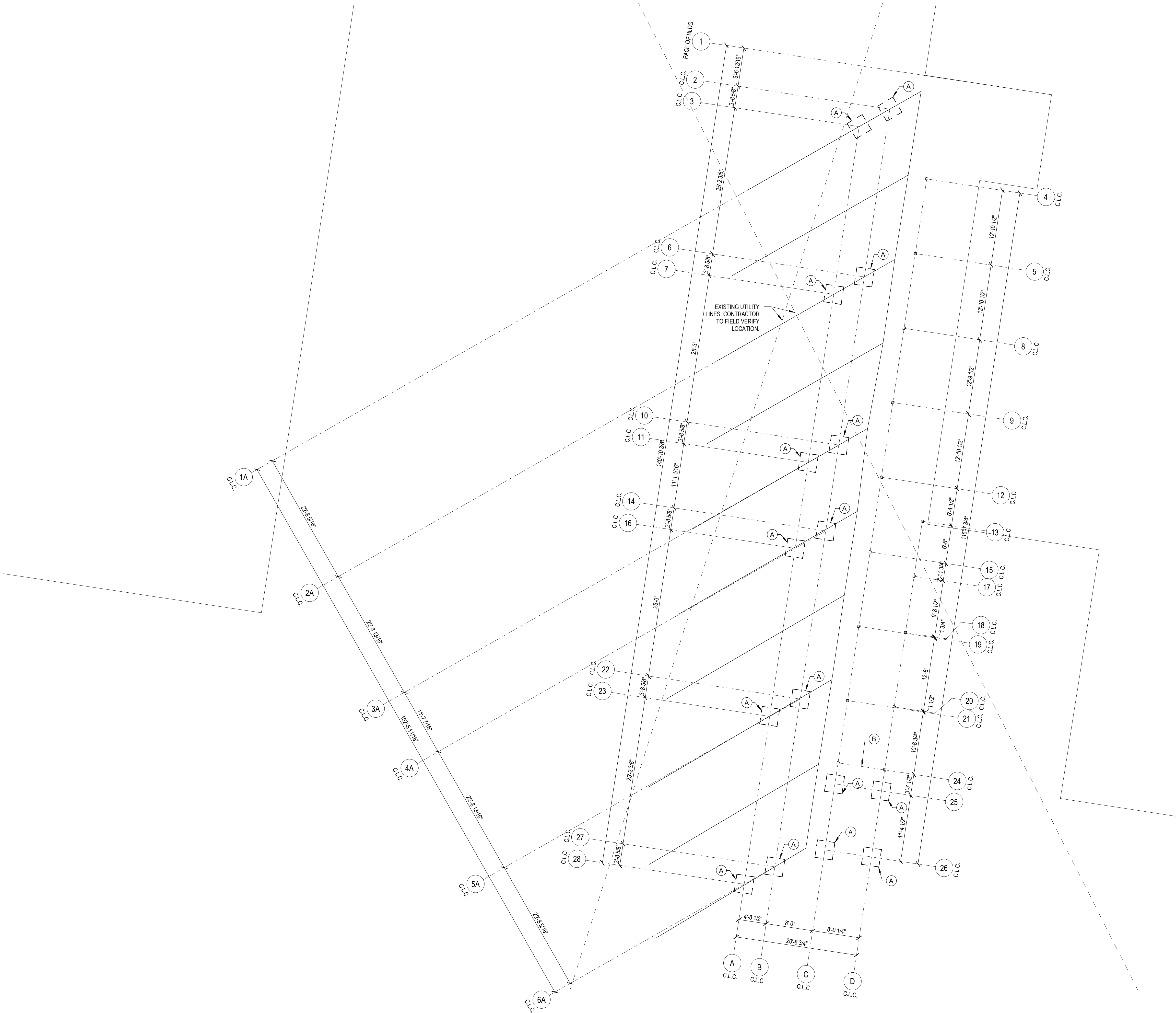
**PHARR-SAN JUAN-ALAMO ISD
BALDEMAR G. CANO CENTRAL
KITCHEN COMPLEX CANOPY
ADDITIONS**

800 S STEWART RD, SAN JUAN, TX 78589

DATE: 09/20/2019

SCALE:

REVISIONS:



1 DEMOLITION PLAN
1/8" = 1'-0"

GENERAL DEMOLITION NOTES:

1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH LOCAL STATE AND FEDERAL LAWS AND OTHER SAFETY REGULATIONS THAT MAY GOVERN THE WORK OF THIS PROJECT.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CONSTRUCTION PERMITS AS NEEDED FROM CITY AND/ OR OTHER LOCAL AUTHORITIES. CONTRACTOR SHALL PAY ALL PERMIT FEES ASSOCIATED WITH OBTAINING PERMITS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE WELL BEING OF ALL MATERIALS USED IN THIS PROJECT UNTIL THE TIME OF ACCEPTANCE AND FINAL PAYMENT.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL WORK IN ACCORDANCE WITH THE CONTRACT DRAWINGS. NO ADDITIONS, DELETIONS OR MODIFICATIONS TO THE WORK SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
5. THE EXTENT OF DEMOLITION WORK IS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF DEMOLITION AND REMODELING WORK, AND FAMILIARIZE HIMSELF WITH THE CONDITIONS UNDER WHICH THE WORK WILL BE PERFORMED PRIOR TO SUBMITTING A BID AND COMMENCING WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ADDITIONAL WORK REQUIRED AS A RESULT OF THE WORK INDICATED HEREIN OR FOR PATCHING REQUIRED AS A RESULT OF NEW WORK, REMODELING OR DEMOLITION.
6. IF DISCREPANCIES APPEAR BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, OR BETWEEN THE DIFFERENT TRADES, THEN PROVIDE THE GREATER OF THE TWO. IF WORK IS UNCLEAR AND ADDENDUM IS NOT RECEIVED, PRICE A SOLUTION REASONABLE TO WORK TO BE PERFORMED. CHANGES TO WORK WILL NOT BE APPROVED WITHOUT PRICED ALTERNATIVE SOLUTION.
7. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE GROUND. ANY DISCREPANCY BETWEEN CONTRACTOR'S MEASUREMENTS AND CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF ENGINEER AND CONTRACTOR SHALL CEASE WORK UNTIL THE DISCREPANCY IS RESOLVED.
8. ANY ITEMS THAT ARE INDICATED TO BE SALVAGED SHALL BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE OWNER'S DESIGNATED STORAGE AREA.
9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO TAKE ALL PRECAUTIONARY MEASURES AS NEEDED TO PROTECT ALL EXISTING BUILDINGS, SIDEWALK, & ETC., WHICH ARE NOT CALLED FOR IN THE CONTRACT DOCUMENTS TO BE REPAIRED, REPLACED OR OTHERWISE ALTERED, FROM DAMAGE. DAMAGE TO ANY EXISTING BUILDINGS, SIDEWALK & ETC. THAT IS THE FAULT OF THE CONTRACTOR SHALL BE REPAIRED OR THE FACILITY SHALL BE REPLACED AS NEEDED TO RESTORE THE DAMAGED BUILDINGS, SIDEWALK & ETC. TO ITS ORIGINAL CONDITION OR BETTER AT NO ADDITIONAL EXPENSE TO THE OWNER.
10. CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION OR BETTER, ALL SURFACE MEDIA SPECIFIED ON THE DRAWINGS FOR REPAIR OR ANY DAMAGED AREAS NOT SPECIFIED WHICH ARE DAMAGED BY THE CONTRACTOR'S OWN NEGLIGENCE.
11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UNDERGROUND UTILITIES, WHETHER SHOWN OR NOT SHOWN ON THE DRAWINGS, SUFFICIENTLY IN ADVANCE OF OPERATION, TO PRECLUDE DAMAGE TO SAME.
12. IN THE EVENT OF DAMAGE TO UNDERGROUND FACILITIES WHETHER SHOWN OR NOT IN THE DRAWINGS, THE CONTRACTOR SHALL MAKE THE NECESSARY REPAIRS TO PLACE THE FACILITIES BACK IN SERVICE AT NO INCREASE IN THE CONTRACTOR'S PRICE, AND ALL SUCH REPAIRS SHALL CONFORM TO THE REQUIREMENTS OF THE COMPANY OR AGENCY SERVING THE FACILITY.
13. THE CONTRACTOR SHALL EXERCISE EXTRA CARE TO PREVENT DAMAGE TO ALL OTHER STRUCTURES IN THE AREA INCLUDING BUILDINGS, FENCES, ROADS, PIPELINES, UTILITIES, ETC., WHETHER PUBLICLY OR PRIVATELY OWNED.
14. UNTIL ACCEPTANCE BY THE ENGINEER OF ANY PART OR ALL OF THE CONSTRUCTION, AS PROVIDED FOR IN THE PLANS AND SPECIFICATIONS, IT SHALL BE UNDER THE CHARGE AND CARE OF THE CONTRACTOR, AND HE SHALL TAKE EVERY NECESSARY PRECAUTION AGAINST INJURY OR DAMAGE TO ANY PART OF THE WORK. THE CONTRACTOR SHALL REBUILD REPAIRS, RESTORE AND MAKE GOOD, AT HIS OWN EXPENSE, ALL INJURIES OR DAMAGE TO ANY PORTION OF THE WORK BEFORE ITS COMPLETION AND ACCEPTANCE.
15. NO OPEN TRENCHES OR EXCAVATION SHALL BE LEFT OPEN OVERNIGHT.

DEMOLITION KEYED NOTES:

- (A) REMOVE AND DISCARD EXISTING CONCRETE SAME SIZE AS PROPOSED FOOTING IN THAT LOCATION.
- (B) REMOVE AND DISCARD EXISTING METAL ROOF PANEL EAVE TRIM AND METAL WALL PANEL TRIM.

DATE: 09/20/2019

SCALE:

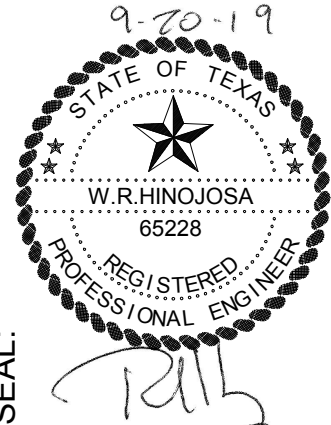
REVISIONS:

PHARR-SAN JUAN-ALAMO ISD
BALDEMAR G. CANO CENTRAL
KITCHEN COMPLEX CANOPY
ADDITIONS

800 S STEWART RD, SAN JUAN, TX 78589

TITLE:

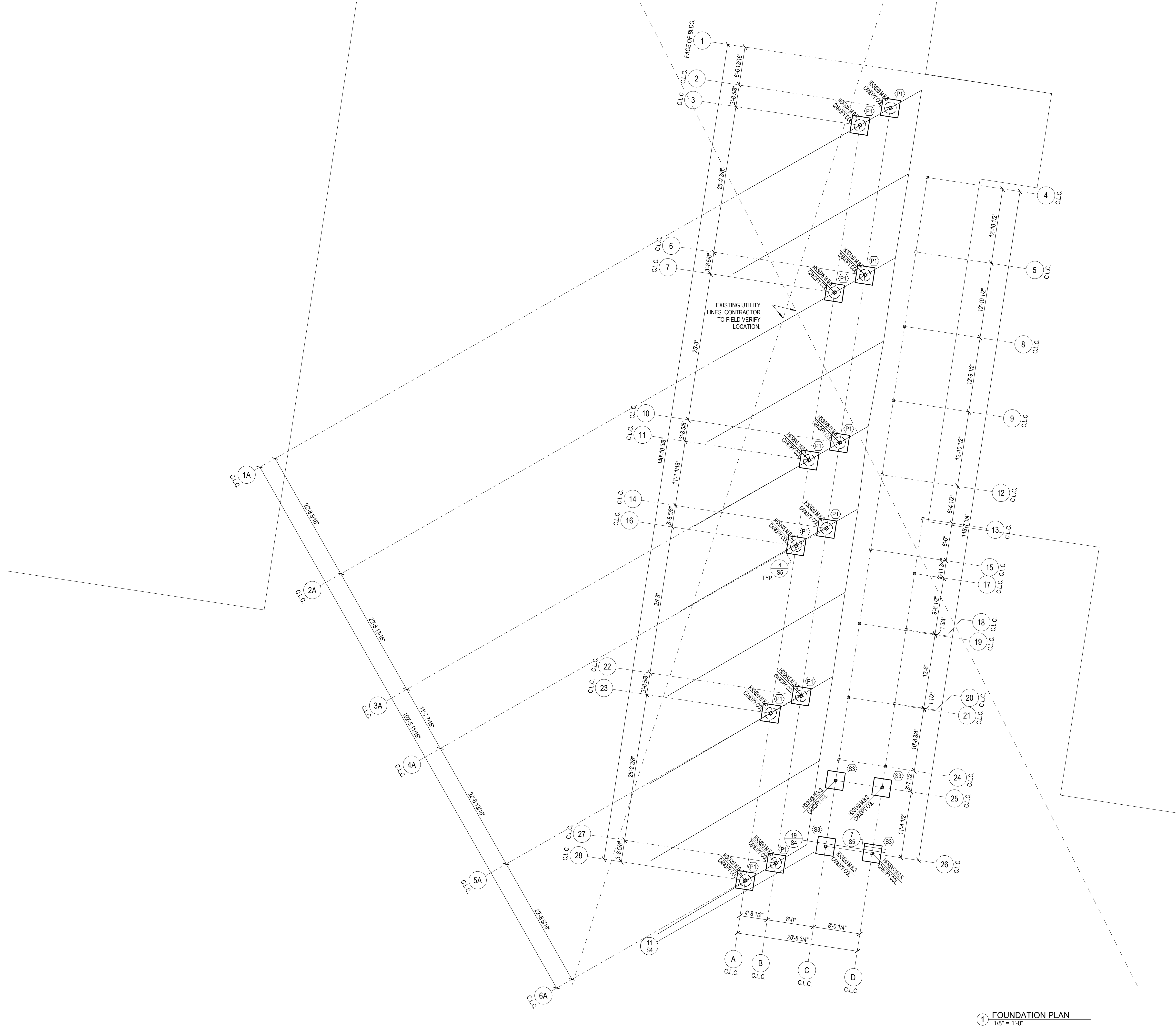
SEAL:



HINOJOSA
ENGINEERING, INC.
STRUCTURAL ENGINEERING
CIVIL ENGINEERING
MISSION, TEXAS
108 W. 18TH ST.
(956) 581-0743
FAX (956) 581-2071
REGISTRATION NUMBER 638 EXPIRATION DATE 09/30/2019

ENGINEER: RH
DESIGNER: AT
SURVEYOR:
DRAWN BY: MR
JOB NO.: 19-123
BOOK NO.:

D1



1 FOUNDATION PLAN
1/8" = 1'-0"

- FOUNDATION NOTES
- FOR GENERAL NOTES SEE SHEET S1.
 - CONTRACTOR/SUBCONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING DIMENSIONS WITH ENGINEERING PLANS BEFORE COMMENCING ANY WORK. THE CONTRACTOR/SUBCONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE ANY WORK HAS BEGUN.
 - REFER TO DETAIL 4/SS FOR PIER SCHEDULE.
 - REFER TO DETAIL 8/SS FOR FOOTING SCHEDULE.


DATE: 09/20/2019
SCALE:
REVISIONS:
TITLE: PHARR-SAN JUAN-ALAMO ISD BALDEMAR G. CANO CENTRAL KITCHEN COMPLEX CANOPY ADDITIONS 800 S STEWART RD. SAN JUAN, TX 78589
SEAL:
 HINOJOSA ENGINEERING, INC. STRUCTURAL ENGINEERING CIVIL ENGINEERING 108 W. 18TH ST. MISSION, TEXAS (956) 581-0743 FAX (956) 581-2071 CLAYTON, TEXAS REGISTRATION NUMBER 638 EXPIRATION DATE 09/30/2019
ENGINEER: RH DESIGNER: AT SURVEYOR: DRAWN BY: MR JOB NO.: 19-123 BOOK NO.: S2

19 CANOPY SECTION		11 CANOPY SECTION	

DATE: 09/20/2019
SCALE:
REVISIONS:


TITLE: **PHARR-SAN JUAN-ALAMO ISD
BALDEMAR G. CANO CENTRAL
KITCHEN COMPLEX CANOPY
ADDITIONS**
800 S STEWART RD. SAN JUAN, TX 78589

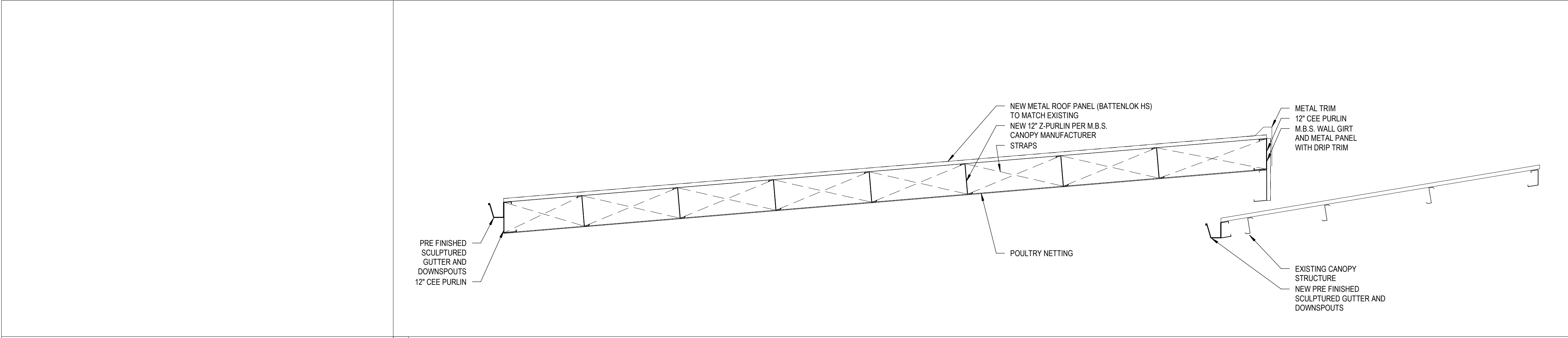
SEAL:



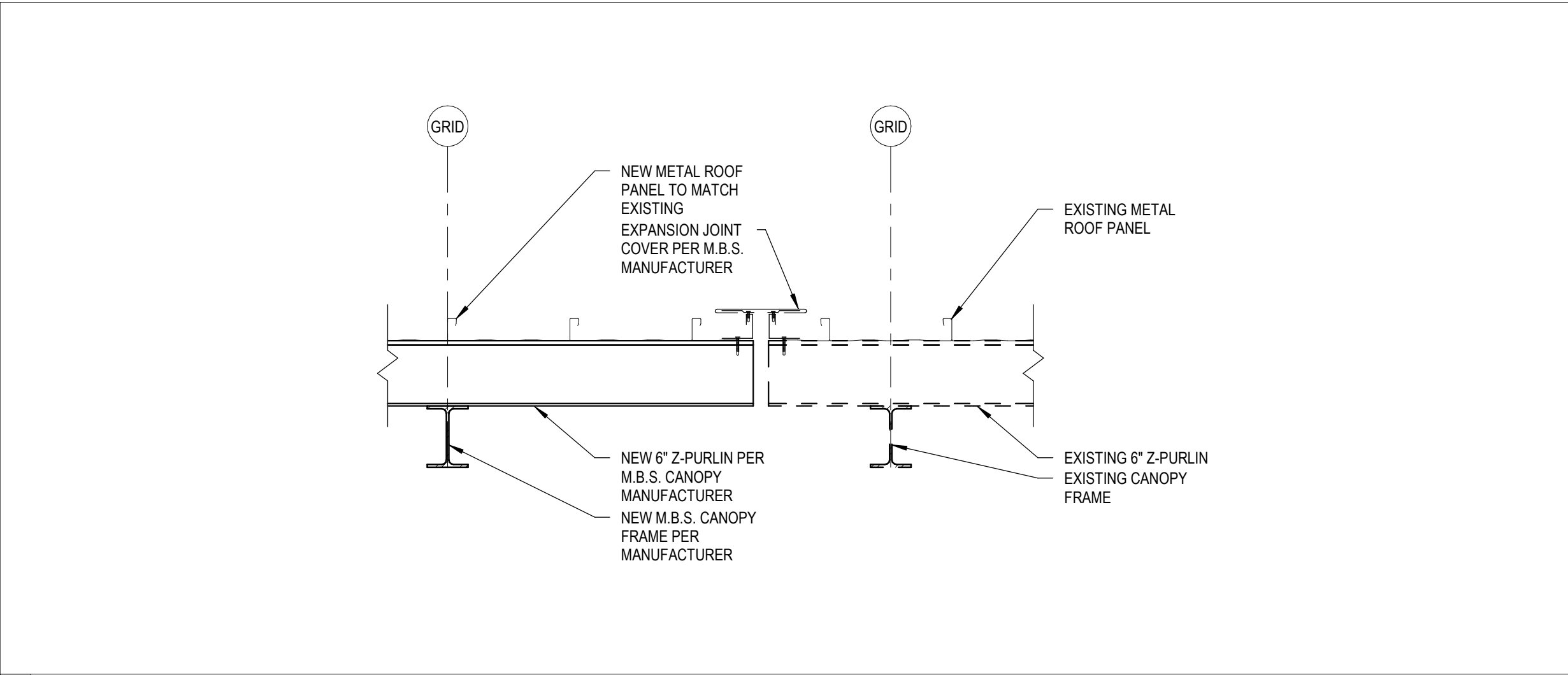
**HINOJOSA
ENGINEERING, INC.**
STRUCTURAL ENGINEERING
CIVIL ENGINEERING
108 W. 18TH ST. MISSION, TEXAS
(956) 581-0743 FAX (956) 581-2071
E-MAIL: info@hinojosaeng.com
REGISTRATION NUMBER 6387 EXPIRATION DATE 09/30/2019

ENGINEER: RH
DESIGNER: AT
SURVEYOR:
DRAWN BY: MR
JOB NO.: 19-123
BOOK NO.:

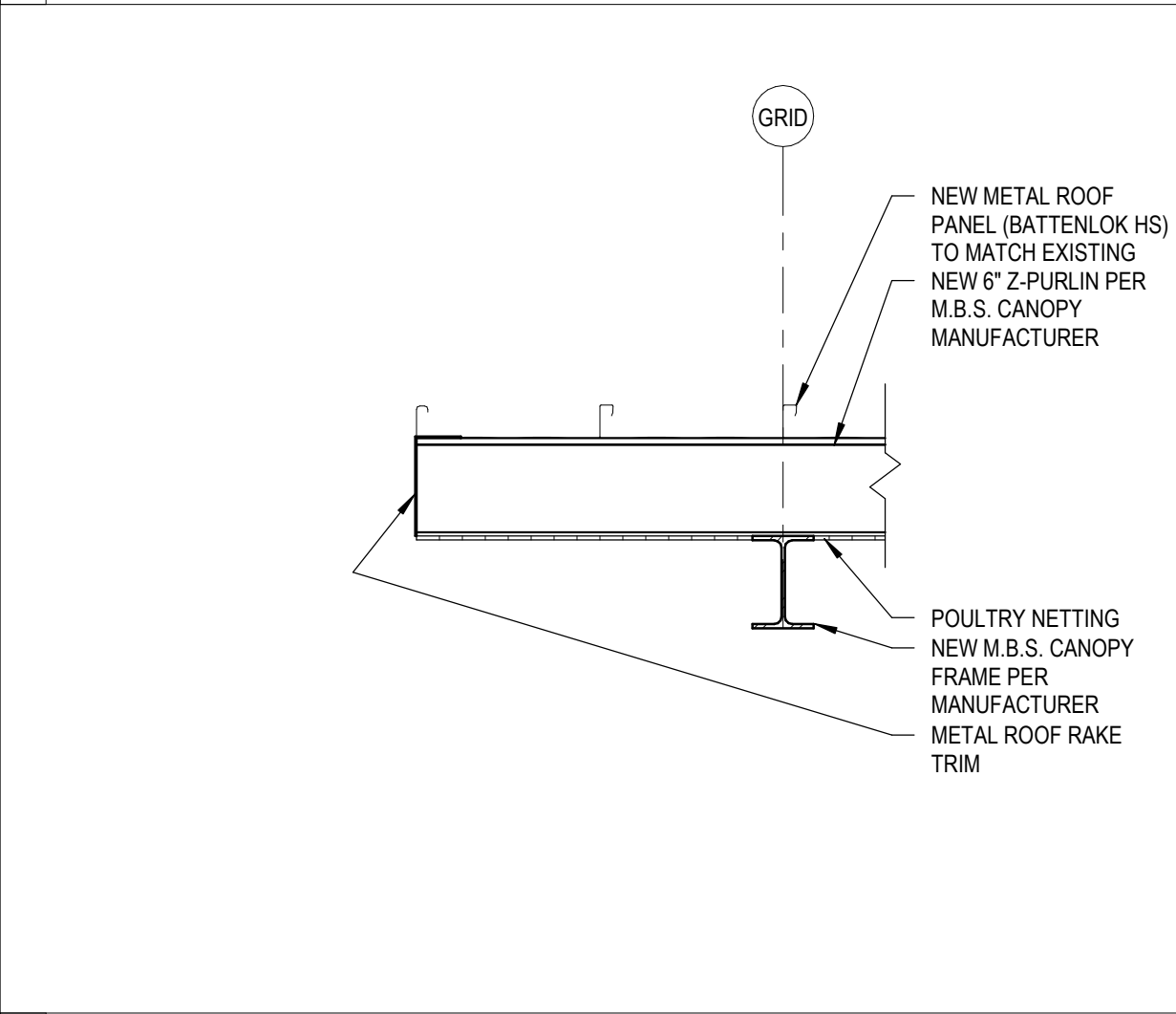




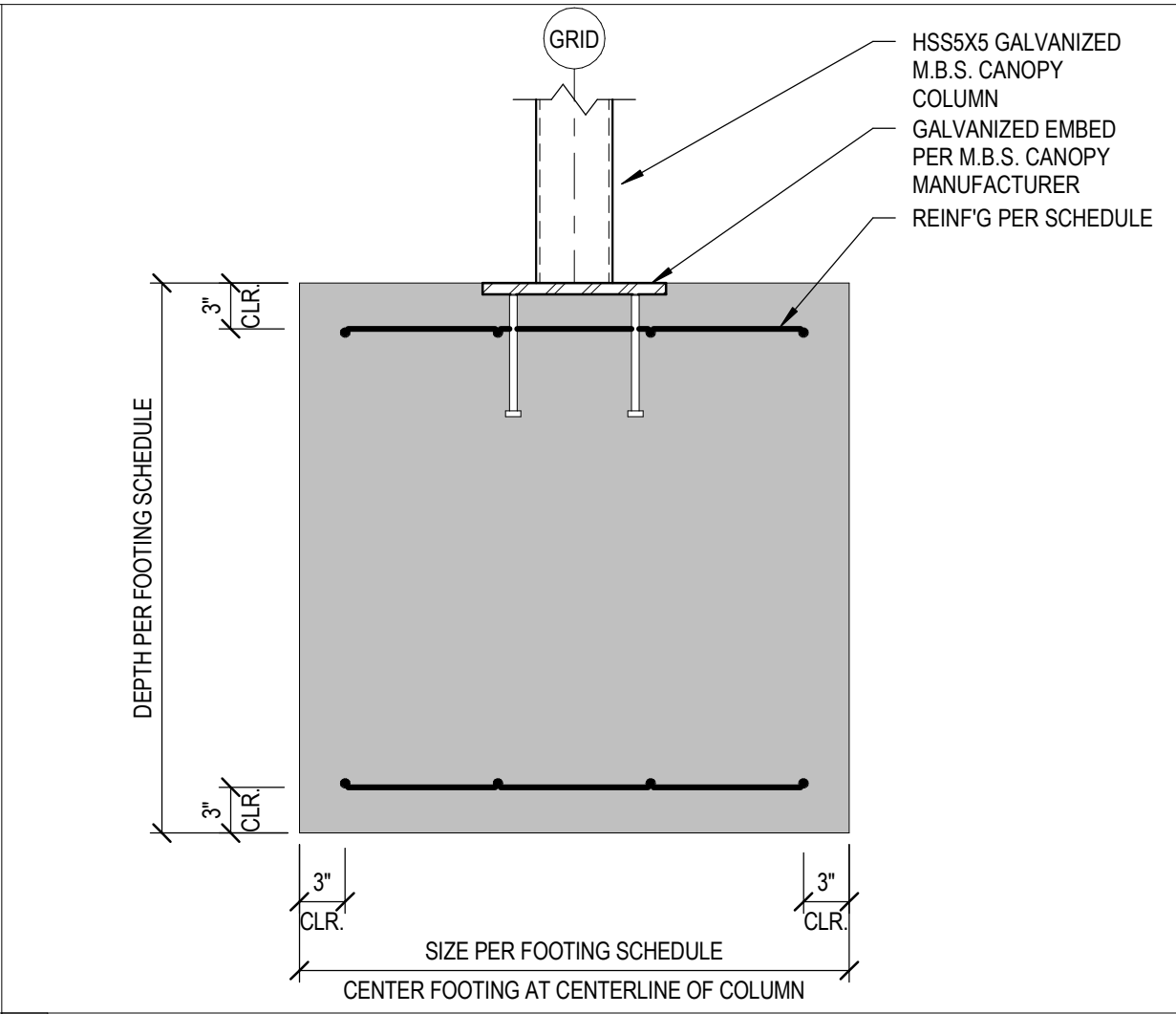
13 FRAMING SECTION DETAIL



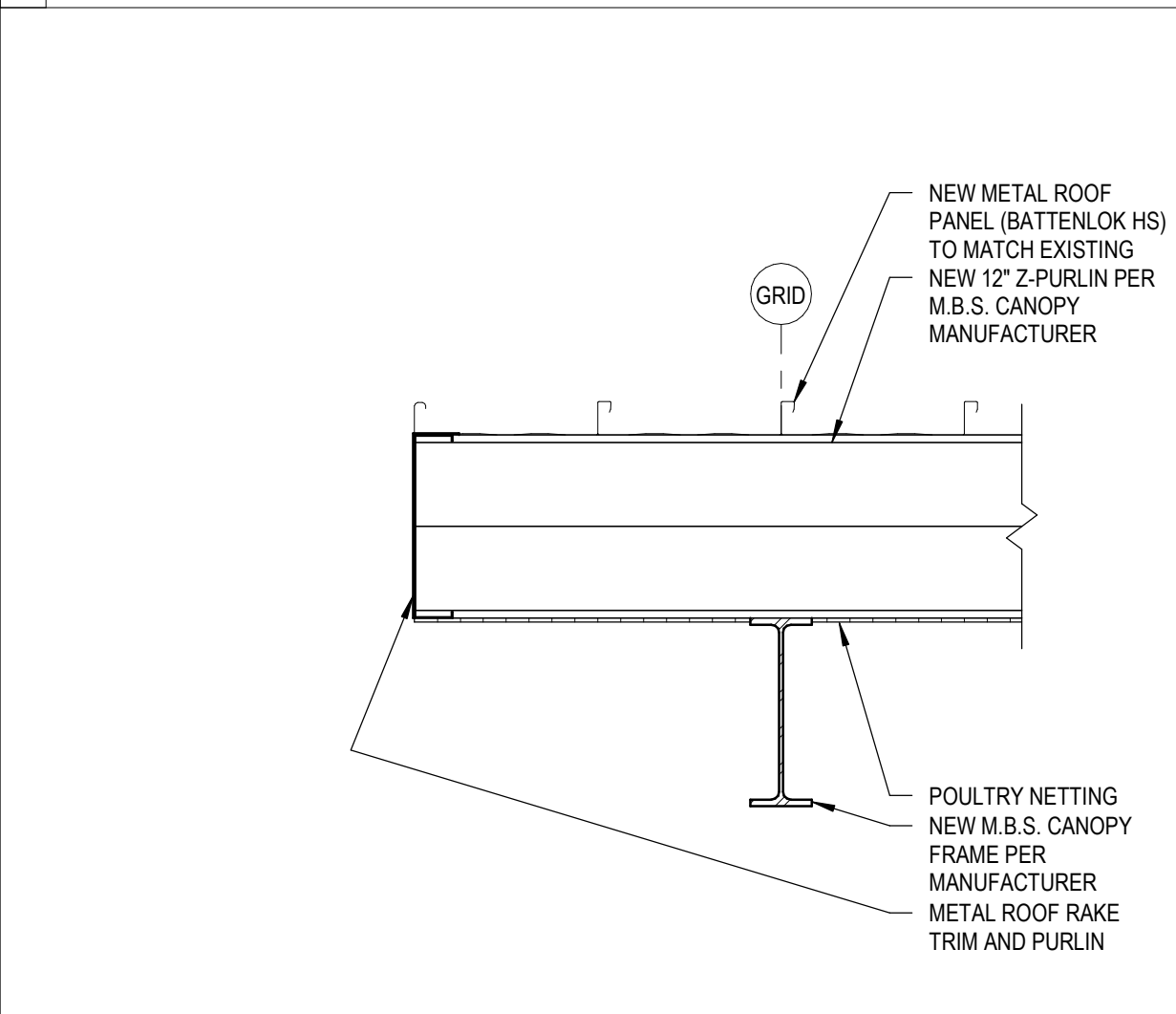
10 FRAMING SECTION DETAIL



11 FRAMING SECTION DETAIL



7 CANOPY FOUNDATION



12 FRAMING SECTION DETAIL

FOOTING SCHEDULE

TYPE	A	B	C	D	REINFORCING
S3	3'-0"			3'-0"	#5'S @ 10" O.C. E.W. TOP & BOT.

NOTES:
1. D= FOOTING BELOW FINISH FLOOR.
2. FOOTING DIMENSIONS ARE FOR BIDDING PURPOSES ONLY. ACTUAL DIMENSION MAY VARY.
3. PROVIDE UNIT PRICES (ON A CUBIC YARD BASIS) FOR REINFORCED (#5'S @ 12" O.C. E.W. TOP & BOT.) WIDENED BEAM CONCRETE FOOTINGS.

A

A

TYPE "S"

WIDENED BEAM FOOTINGS

8 FOOTING SCHEDULE

GRID

GALVANIZED HSS6X6 M.B.S. CANOPY COLUMN

1/2" DIA. X 2" LONG NELSON STUDS AT 24" O.C. EACH SIDE STAGGERED REINFG PER SCHEDULE

3'-0"

3'-0"

SPIRALS PER SCHEDULE

PIER PER SCHEDULE

PER SCHEDULE

6"

4"

3"

3"

VERT. PER SCHEDULE

SPIRALS PER SCHEDULE

STEEL COL. PER PLAN

1/2" DIA. X 2" LONG NELSON STUDS AT 24" O.C. EACH SIDE STAGGERED

3" CLR.

PER SCHEDULE

SECTION A-A

PIER SCHEDULE					
DEPTH BELOW GRADE	DIA.	VERT. REINF. NO.	SIZE	SPIRAL SIZE	PITCH
15'-0"	24"	7	8	3/8"	6"

4 CANOPY FOUNDATION

DATE: 09/20/2019

SCALE:

REVISIONS:

TITLE:

PHARR-SAN JUAN-ALAMO ISD
BALDEMAR G. CANO CENTRAL
KITCHEN COMPLEX CANOPY
ADDITIONS
800 S STEWART RD. SAN JUAN, TX 78589

SEAL:

9-20-19

STATE OF TEXAS

W.R.HINOJOSA

65228

REGISTERED PROFESSIONAL ENGINEER

ENGINEER: RH

DESIGNER: AT

SURVEYOR:

DRAWN BY: MR

JOB NO.: 19-123

BOOK NO.:

S5

HINOJOSA ENGINEERING, INC.

STRUCTURAL ENGINEERING

CIVIL ENGINEERING

MISSION, TEXAS

108 W. 18TH ST.

(956) 581-0743

REGISTRATION NUMBER 638

EXPIRATION DATE 09/30/2019

HINOJOSA ENGINEERING, INC. EXPRESSLY RESERVES ITS COMMON-LAW COPYRIGHT AND OTHER PROPERTY RIGHTS IN THIS DOCUMENT. THIS DOCUMENT SHALL NOT BE REPRODUCED, COPIED, CHANGED OR DISCLOSED IN ANY FORM OR MANNER WHATSOEVER WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF H.E., INC. © 2019

ELECTRICAL SPECIFICATION SHEETS ARE INTENDED TO BE ALL-INCLUSIVE AND INCLUDE SPECIFICATION SECTIONS THAT MAY OR MAY NOT APPLY TO THIS PARTICULAR PROJECT. REFER TO THE DRAWINGS FOR SCOPE OF WORK.

DIVISION 26 - ELECTRICAL

- GENERAL CONDITIONS:
- A. THE REQUIREMENTS AS SET FORTH UNDER GENERAL CONDITIONS, INSTRUCTIONS TO BIDDERS AND GENERAL REQUIREMENTS ARE A PART OF THIS CONTRACT.
 - B. BIDS SHALL BE BASED ON A COMPLETE/FULL SET OF DRAWINGS.
 - C. CONTRACTOR MUST READ THE ENTIRE SPECIFICATIONS COVERING OTHER BRANCHES OF WORK AND IS RESPONSIBLE FOR COORDINATION OF THE WORK WITH WORK PERFORMED BY OTHER TRADES.

- SCOPE OF WORK:
- A. PROVIDE ALL LABOR, MATERIALS, TESTING, EQUIPMENT, INCIDENTALS AND TOOLS TO PERFORM WORK SHOWN, NOTED OR SCHEDULED FOR A COMPLETE AND FINISHED INSTALLATION AND OPERABLE SYSTEM.
 - B. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND AS SUCH APPEAR ON THE UNDERWRITERS LABORATORIES LIST OF APPROVED ITEMS AND SHALL BE SIZED IN CONFORMITY WITH REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND OTHER APPLICABLE CODES, WHICHEVER ARE MORE STRINGENT.
 - C. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES.
 - D. INCLUDE ANY LABOR AND MATERIALS NOT SPECIFICALLY MENTIONED, BUT NECESSARY TO PROVIDE COMPLETE AND FULLY OPERATIVE SYSTEMS.

- PERMITS:
- A. SECURE AND PAY FOR ALL REQUIRED PERMITS, FEES, ASSESSMENTS AND INSPECTION CERTIFICATES THAT RELATE TO THE WORK.
 - B. PROVIDE APPROVED CERTIFICATE OF FINAL INSPECTION, AND PROVIDE TO OWNER AT COMPLETION OF PROJECT.

- DRAWINGS AND SPECIFICATIONS:
- A. PLANS ARE DIAGRAMMATIC, NOT SHOWING EVERY ITEM IN EXACT LOCATION OR DETAIL. MEASUREMENTS AND LOCATIONS MUST BE FIELD VERIFIED AND COORDINATED WITH ARCHITECTURAL, PLUMBING, HVAC, FIRE PROTECTION, STRUCTURAL AND OTHER WORK.

- CONDUITS:
- A. CONDUIT SHALL BE STANDARD STEEL RIGID, IMC OR EMT (THIN WALL) ACCORDING TO LOCAL CODE AND LANDLORD REQUIREMENTS. CONDUIT SHALL BE CONCEALED IN FINISHED AREAS, EXCEPT AS OTHERWISE APPROVED BY OWNER. EMT CONNECTIONS SHALL BE COMPRESSION OR SET SCREW TYPE.
 - B. FLEXIBLE METAL CONDUIT SHALL BE USED FOR FINAL CONNECTIONS TO LUMINAIRES, MOTORS AND VIBRATING EQUIPMENT ONLY; AND WHERE SO USED TO BE GROUNDED WITH A SEPARATE FULL SIZED GREEN GROUNDING CONDUCTOR. FINAL FLEXIBLE METAL CONDUIT CONNECTIONS SHALL BE LIMITED TO 5'-0" IN LENGTH. (ARRANGE CIRCUITS TO AVOID THE USE OF JUNCTION BOXES ABOVE DRYWALL CEILING AREAS. JUNCTION BOXES LOCATED ABOVE LAY IN CEILINGS ARE ACCEPTABLE).
 - 1. MINIMUM SIZES OF CONDUITS SHALL BE 3/4" FOR STANDARD CONDUIT, AND 1/2" FOR FLEXIBLE METAL CONDUIT (1/2" STANDARD CONDUIT MAY BE USED AS SPECIFIED ABOVE, IF ACCEPTABLE WITH LOCAL CODES. COORDINATE WITH INSPECTION AGENCIES PRIOR TO INSTALLATION). ELECTRIC METALLIC TUBING (EMT) SHALL BE GALVANIZED OR ELECTRO-GALVANIZED. FITTINGS SHALL BE SET SCREW OR COMPRESSION TYPE. FITTING SHALL BE AS MANUFACTURED BY REGEL, STEEL CITY, RACO, T & B, EFCOR OR EQUAL. EMT SHALL BE USED FOR FEEDERS AND BRANCH CIRCUITS RUN ABOVE SUSPENDED CEILINGS OR CONCEALED IN INTERIOR PARTITIONS.
 - 2. PAINT CONDUITS, ETC., TO MATCH SURROUNDING SURFACES WHERE EXPOSED TO PUBLIC VIEW.
 - C. THE USE OF NM, ROMEX, OR BX IS NOT PERMITTED.
 - D. MAXIMUM CONDUIT HANGER SPACING SHALL BE 8'-0" FOR 3/4" THRU 1 1/4" AND 10'-0" FOR 1-1/2" THRU 4" CONDUITS. DO NOT SUPPORT CONDUIT FROM CEILING SYSTEM.
 - E. PROVIDE NYLON PULL STRING IN ALL EMPTY CONDUITS.
 - F. SECURE ALL CONDUITS TO THE BUILDING STRUCTURE IN A RIGID AND SECURE MANNER, USING FASTENERS SUCH AS "CADDY CLIPS" OR EQUAL.
 - G. FLASH AND COUNTER FLASH ALL CONDUITS WHICH PENETRATE THE ROOF OR USE PITCH POCKETS. PENETRATIONS SHALL BE COMPLETELY WEATHERPROOF. ALL CONDUIT SYSTEMS EXPOSED TO WEATHER SHALL BE WEATHERPROOF.
 - H. SLAB OPENINGS FOR CONDUITS IN WET AREAS MUST BE SLEEVED 2" ABOVE FLOOR AND SEALED TO PROPER FLOOR WATERPROOFING SYSTEM PER B-2. X-RAY SLAB PRIOR TO CORE DRILLING.

- WIRE:
- A. WIRE SHALL BE SINGLE CONDUCTOR COPPER WITH 600 VOLT INSULATION. MINIMUM WIRE SIZE SHALL BE #12 AWG, ALL WIRE AND CABLE SHALL BE NEW AND SHALL BE BROUGHT TO THE SITE IN UNBROKEN PACKAGES. ALL WIRING OF ANY TYPE SHALL BE IN CONDUIT. WHERE ALLOWED BY LOCAL CODES, TYPE MC CABLE IS ALLOWED. NO STRANDED WIRE ALLOWED FOR #10 AND #12 AWG SIZES. (INCREASE CONDUCTOR BY ONE SIZE FOR EVERY 150' INCREMENT OF DISTANCE FROM THE PANEL BOARD FOR ALL 120 VOLT CIRCUITS.)
 - 1. GENERAL WIRING SHALL BE COPPER THWN OR THHN.
 - B. WIRE CONNECTORS SHALL BE EQUAL TO SCOTCHLOCK FOR #8 AND SMALLER, AND EQUAL TO T & B "LOCK-TITE" FOR #6 AND LARGER.
 - C. ALL WIRING SHALL BE COLOR CODED AS FOLLOWS
 - 208/120 VOLT SYSTEM
 - NEUTRAL - WHITE
 - PHASE A OR L1-BLACK
 - PHASE B OR L2-RED
 - PHASE C OR L3-BLUE
 - GROUND-GREEN

- LIGHTING:
- A. LUMINAIRES SHALL BE PROVIDED AS SCHEDULED ON THE LUMINAIRE SCHEDULE. FLUORESCENT LAMPS SHALL HAVE HPF BALLASTS WITH EFFICIENCY FACTORS IN ACCORDANCE WITH "NATIONAL APPLIANCE ENERGY CONSERVATION ACT OF 1987, AMENDMENTS OF 1988."
 - B. LUMINAIRES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE VIA ALL THREAD AND UNISTRUT, NOT SUPPORTED BY CEILING SYSTEM.

- GROUNDING SYSTEM:
- A. PROVIDE A COMPLETE WIRED GROUNDING SYSTEM FOR ELECTRICAL EQUIPMENT AND CIRCUITS AS SHOWN ON THE DRAWINGS AND DESCRIBED GENERALLY BELOW.
 - B. ALL GROUNDING CONDUCTORS SHALL BE GREEN, WHERE EXPOSED IN PANEL, SWITCHBOARD, OUTLET, BOXES, ETC.
 - C. ALL ENCLOSURES AND NON-CURRENT CARRYING METALS SHALL BE GROUNDED. ALL METAL CONDUIT SYSTEMS SHALL BE GROUNDED. ALL LOCK NUTS MUST CUT THROUGH ENAMELED OR PAINTED SURFACES ON ENCLOSURES. WHERE ENCLOSURES AND NON-CURRENT CARRYING METALS ARE ISOLATED FROM THE CONDUIT SYSTEM, USE BONDING JUMPERS WITH APPROVED CLAMPS.
 - D. RUN A SEPARATE GROUNDING CONDUCTOR IN EACH CONDUIT, #12 MINIMUM. FOR PANEL FEEDERS BOND THE GROUNDING CONDUCTOR TO THE CONDUIT, WHERE ENTERING AND LEAVING THE CONDUIT. ALL GROUND CLAMPS SHALL BE PENN-UNION OR EQUAL, SIMILAR TO "GPI" TYPE. CONDUIT GROUND BUSHINGS SHALL BE THOMAS & BETTS OR EQUAL, SIMILAR TO #3800 SERIES WITH NYLON INSULATED THROAT.
 - E. ALL DEVICES SHALL BE BONDED TO THE CONDUIT SYSTEM. USE A BONDING JUMPER BETWEEN THE OUTLET BOX AND THE DEVICE GROUNDING TERMINAL. METAL TO METAL CONTACT BETWEEN THE DEVICE YOKE AND THE OUTLET BOX IS NOT ACCEPTABLE AS A BOND FOR EITHER SURFACE MOUNTED BOXES OR FLUSH TYPE BOXES. ALL JUNCTION BOXES, OUTLET BOXES AND PULL BOXES SHALL BE BONDED TO THE CONDUIT SYSTEM. ALL FLEXIBLE CONDUIT SHALL BE JUMPERED WITH A GROUNDING CONDUCTOR.

- WIRING DEVICES:
- A. DEVICES AND COVERPLATES
 - 1. RECEPTACLES SHALL BE 20 AMP, 3-WIRE GROUNDING TYPE EQUAL TO HUBBELL 5362.
 - 2. SWITCHES SHALL BE 20 AMP SPECIFICATION GRADE, RATED AT 120 VOLT.
 - 3. SPECIAL DEVICES SHALL BE A SPECIFICATION GRADE.
 - 4. ALL DEVICES & COVER PLATES SHALL BE WHITE IN COLOR.
 - 5. EQUAL ALTERNATES = ARROW-HART, GENERAL ELECTRIC, BRYANT, PASS & SEYMOUR, OR SIERRA.

- PANEL BOARDS AND SAFETY SWITCHES:
- A. PROVIDE BRANCH CIRCUIT PANEL BOARDS WHICH SHALL BE OF THE BOLTED CIRCUIT BREAKER TYPE WITH SOLID COPPER BUSSING FULL SIZE NEUTRAL, 100% GROUND BUSSING, OVERALL HINGED/LOCKABLE DOOR, AND TYPE-WRITTEN DIRECTORY INSIDE DOOR. ALL SERVICE ENTRANCE EQUIPMENT SHALL BEAR THE MANUFACTURER'S LABEL WHICH SHALL STATE THAT THE EQUIPMENT IS RATED FOR SERVICE ENTRANCE APPLICATION IN ACCORDANCE WITH N.E.C. #230-70. LOAD BALANCE ALL ELECTRICAL PHASES AT PANELS AND SWITCHBOARDS. TWO AND THREE POLE BREAKERS SHALL BE COMMON TRIP TYPE. WHEN USED AS SWITCHES IN 120V LIGHTING CIRCUITS, FURNISH TYPE "SWD" BREAKERS IN ACCORDANCE WITH N.E.C. #240-83B. SQUARE D OR EQUAL BY CUTLER-HAMMER, WESTINGHOUSE, OR GENERAL ELECTRIC (OR APPROVED EQUAL).
 - B. PROVIDE SAFETY AND DISCONNECT SWITCHES, FUSED OR NON-FUSED, AS INDICATED ON DRAWINGS AND AS REQUIRED BY CODE (FUSES AS MANUFACTURED BY BUSSMAN, CHASE SHAWMUT, WESTINGHOUSE, ECONOMY FUSE CO., OR LITTLE FUSE CO. ARE ACCEPTABLE). SWITCHES SHALL BE HEAVY DUTY, QUICK MAKE/QUICK BREAK TYPE, FUSIBLE OR NON-FUSIBLE, WEATHERPROOF AS INDICATED ON THE DRAWINGS, OR AS REQUIRED BY LOCAL CODES. LOAD AND HORSEPOWER RATED SWITCHES AS MANUFACTURED BY SQUARE D, CUTLER HAMMER, WESTINGHOUSE, OR GENERAL ELECTRIC (OR APPROVED EQUAL).
 - C. ALL HVAC EQUIPMENT SHALL BE PROVIDED WITH INTEGRAL SAFETY SWITCH AND CONVENIENCE OUTLET. VERIFY ALL MINIMUM CIRCUIT IMPACITIES AND MINIMUM OVERCURRENT PROTECTION WITH EQUIPMENT PROVIDED PRIOR TO INSTALLING FEEDERS TO EQUIPMENT.

- BOXES:
- A. OUTLET BOXES AND COVERS SHALL BE GALVANIZED, ONE PIECE PRESSED STEEL KNOCKOUT.
 - B. JUNCTION, PULL BOXES AND COVERS SHALL BE GALVANIZED STEEL, CODE GAUGE SIZE.
 - C. INSTALL BOXES RIGIDLY ON BUILDING STRUCTURE AND SUPPORT INDEPENDENTLY OF CONDUIT SYSTEM. ALSO PROVIDE SUITABLE/PROPER BOX EXTENSIONS TO EXTEND BOXES TO FINISHED FACES OF WALLS ETC. ALL OUTLET BOXES TO HAVE SUITABLE BLOCKING BEHIND THEM TO MINIMIZE THE DEFLECTION THAT OCCURS WHEN PLUGGING/UNPLUGGING INTO THESE DEVICES.

- SERVICES:
- A. PROVIDE TEMPORARY SERVICE, LIGHTING, POWER AND WIRING AS REQUIRED TO FACILITATE APPLICABLE TEMPORARY NEEDS. ANY TEMPORARY WIRINGS, FUSES, ETC., SHALL BE REMOVED UPON COMPLETION OF THE PROJECT. PROVIDE GROUND FAULT PROTECTION AS REQUIRED BY NEC AND LOCAL CODES.
 - B. PROVIDE ELECTRICAL SERVICE AS SHOWN ON THE DRAWINGS. FIELD VERIFY ALL UTILITY REQUIREMENTS PRIOR TO BID. ALL WORK NOT SPECIFICALLY NOTED AS BEING BY THE UTILITY COMPANY SHALL BE PROVIDED BY THE CONTRACTOR. CLOSELY COORDINATE ENTIRE INSTALLATION WITH UTILITY COMPANY AS REQUIRED. PROVIDE EQUIPMENT THAT IS COMPATIBLE WITH AVAILABLE FAULT CURRENT LEVELS.
 - C. PROVIDE PROVISIONS FOR NEW TELEPHONE SERVICE AS REQUIRED, AND AS INDICATED ON THE DRAWINGS.
 - D. CONDUIT SYSTEM FOR TELEPHONE DISTRIBUTION WITHIN BUILDING SHALL BE PROVIDED AS REQUIRED FOR A COMPLETE TELEPHONE SYSTEM. OUTLET BOXES SHALL BE 4" SQUARE MINIMUM WITH SINGLE DEVICE COVER AND TELEPHONE PLATE.

- FIRE ALARM SYSTEM
- A. FURNISH AND INSTALL A COMPLETE OPERATION FIRE ALARM SYSTEM. THE SYSTEM SHALL INCLUDE BUT IS NOT LIMITED TO HORN-STROBE, PULL STATIONS, AREA SMOKE DETECTORS, HEAT DETECTORS, DUCT SMOKE DETECTORS, TAMPER SWITCHES, FLOAT SWITCHES, REMOTE TEST STATIONS AND ANSUL SUPPRESSION SYSTEM INTERFACE COMPONENTS. ONLY THOSE DEVICES REQUIRED BY CODE SHALL BE INSTALLED. A LICENSED FIRE ALARM CONTRACTOR HIRED BY THE GENERAL CONTRACTOR AND DESIGNATED SHALL PREPARE AND SUBMIT A COMPLETE FIRE ALARM DRAWING AND MATERIAL LIST, PRIOR TO COMMENCING WORK.

- INSTALLATION:
- A. ALL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL SUCH AS CHANNELS, RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK AND SHALL BE FASTENED TO BUILDING STEEL, CONCRETE OR MASONRY, BUT NOT TO PIPING OR DUCTWORK. EXPOSED CONDUITS SHALL BE IN STRAIGHT LINES PARALLEL WITH OR AT RIGHT ANGLES TO COLUMN LINES OR BEAMS AND SEPARATED AT LEAST 3 INCHES FROM WATER LINES WHEREVER THEY RUN ALONGSIDE OR ACROSS SUCH LINES.
 - B. PROVIDE ALL LINE VOLTAGE POWER AND CONTROL WIRING INCLUDING CONNECTIONS TO MOTORS, DAMPERS, INTERLOCKING, ETC. ALL LINE VOLTAGE WIRING, CONDUIT, AND FINAL CONNECTIONS FROM THE POWER SOURCE THRU THE STARTER/DISCONNECT ETC. TO THE MOTOR OR EQUIPMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.
 - C. SLEEVES SHALL EXTEND AT LEAST TWO (2") INCHES ABOVE FINISHED FLOOR AND SHALL BE FIRE SEALED WITH CALCIUM SILICATE, SILICONE "RTV" FOAM, "3M" FIRE RATED SEALANTS OR EQUAL BY HILTI AFTER CONDUIT/CABLES INSTALLATION SO AS TO RETAIN THE FIRE RATING.
 - D. PANEL BOARDS, DISCONNECT/SAFETY SWITCHES SHALL BE PROVIDED WITH ENGRAVED NAMEPLATE, APPROXIMATELY 1" X 2" IN SIZE AND BE FASTENED WITH POP RIVETS OR SCREWS.
 - E. THE LOCATION OF OUTLETS AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE AND THE OWNER REPRESENTATIVE SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ADDITIONAL COST.
 - F. CONTRACTOR SHALL RECORD ALL FIELD CHANGES IN THE WORK AS THE JOB PROGRESSES, AND TURN THIS "AS BUILT" INFORMATION OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT.
 - G. CONTRACTOR SHALL PROTECT ALL EQUIPMENT AGAINST DAMAGE FROM LEAKS, ABUSE, ETC., AND PAY COST OF REPAIR OR REPLACEMENT OF EQUIPMENT MADE NECESSARY BY FAILURE TO PROVIDE SUITABLE SAFEGUARDS OR PROTECTION.
 - H. PROVIDE ALL FINAL ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM. AFTER ALL EQUIPMENT HAS BEEN INSPECTED AND APPROVED, THOROUGHLY CLEAN ALL EQUIPMENT PROVIDED UNDER THIS WORK JUST PRIOR TO COMPLETION OF PROJECT.

- GUARANTEE:
- A. MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT CONTRACTOR'S EXPENSE.
 - B. FOR THE SAME PERIOD, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

- FINALLY:
- A. IT IS THE INTENT THAT THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE WORK SHALL BE FURNISHED.

DATE: 09/19/2019

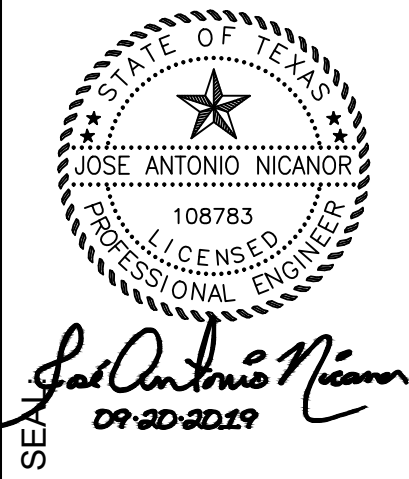
SCALE:

REVISIONS:

PHARR-SAN JUAN-ALAMO ISD
BALDEMAR G. CANO CENTRAL
KITCHEN COMPLEX CANOPY
ADDITIONS

800 S STEWART RD, SAN JUAN, TX 78589

TITLE:



HINOJOSA
ENGINEERING, INC.
STRUCTURAL ENGINEERING
CIVIL ENGINEERING
108 W. 18TH ST. MISSION, TEXAS
(956) 581-0143
FAX (956) 581-2071
LIC. NO. 108783
EXPIRATION DATE 09/20/2019



ENGINEER: JAN

DESIGNER: JAN

SURVEYOR:

DRAWN BY: KA

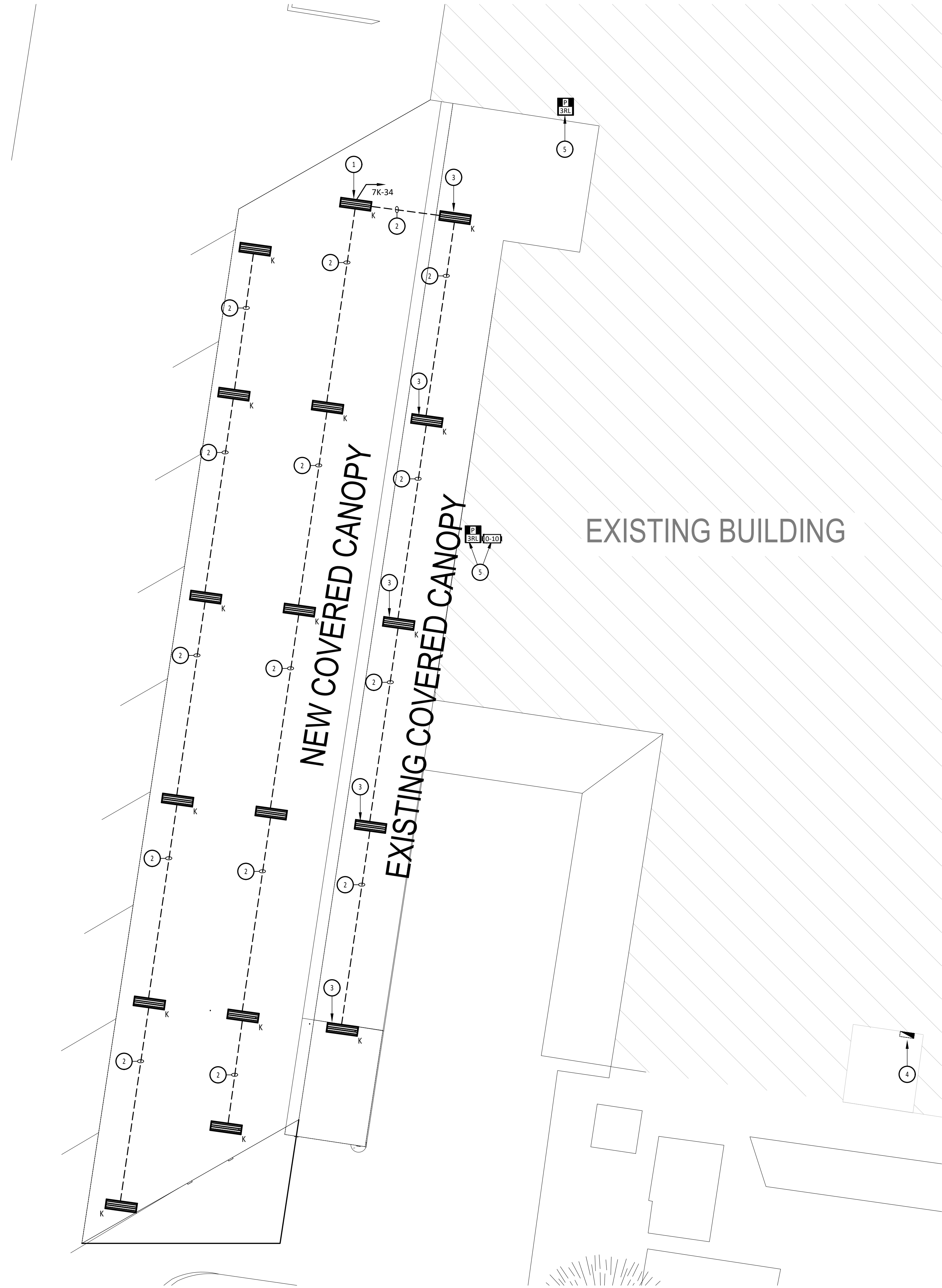
JOB NO.: 19-123

BOOK NO.:

E-0.0

SIGMA
ENGINEERS, PLLC

TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501



LIGHTING FIXTURE SCHEDULE						
TYPE	MANUF.	MODEL NUMBER	LAMPS	VA	VOLTAGE	DESCRIPTION
K	GENERAL ELECTRIC	ALR2-1-4N-10-T-48-1D-S-V-ST-K-Q-W	79W-LED 4000K 10,000-LUMENS	79	120	LED WIDE ENCLOSED AND GASKETED

ELECTRICAL GENERAL LEGEND		
ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.		
SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	LED LIGHT FIXTURES	SEE FIX. SCH.
	SINGLE LINE CONTINUATION	-
	CIRCUIT HOME RUN TO PANELBOARD (2 #12, 1 #12G, 3/4"C. 20A/1P CB UNO)	-
	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS	-
	MULTI-POLE DEVICE CIRCUIT NUMBERS	-
	PULL BOX	-
	TRANSFORMER	-
	ELECTRICAL SERVICE PANELBOARD	AS REQD.

GENERAL ABBREVIATIONS			
ABS	ABOVE BACK SPLASH	TYP	TYPICAL
AFF	ABOVE FINISHED FLOOR	EP	ELECTRICAL PRIMARY
BFC	BELOW FINISHED CEILING	NL	NIGHT LIGHT
C	CONDUIT	NO	(N.O.) NORMALLY OPEN
CB	CIRCUIT BREAKER	RCPT(S)	RECEPTACLE(S)
CLG	CEILING	PNL	PANEL
EC	EMPTY CONDUIT	SO	(S.O.) SPACE ONLY
EX	EXISTING	SP	SPARE
F	FUSE	ST	(S.T.) SHUNT TRIP
G	GROUND (EQUIPMENT)	SW	SWITCH
GFI	GROUND FAULT INTERRUPTER	UF	UNDERFLOOR
IC	INTERRUPTING CAPACITY	UG	UNDERGROUND
IG	ISOLATED GROUND	WG	WIRE GUARD
MTD	MOUNT OR MOUNTED	WP	WEATHERPROOF
NC (N.C.)	NORMALLY CLOSED	XFMR	TRANSFORMER
NF	NONFUSED	UNO	UNLESS NOTED OTHERWISE
NIC	NOT IN CONTRACT		
NOTES: 48" AFF INDICATES TO TOP OF DEVICE; 1. 15" AFF INDICATES TO BOTTOM OF DEVICE; ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.			

GENERAL NOTES:

- A. ELECTRICAL CONTRACTOR SHALL INSTALL ALL UNDERGROUND CONDUIT, CONDUCTORS AND CABLES AS SPECIFIED. REFER TO SPECIFICATION SECTIONS FOR REQUIREMENTS.

KEY NOTES: ①

- FURNISH AND INSTALL LIGHT FIXTURE SURFACED MOUNTED TO CANOPY JOISTS. CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER MATERIAL AND LABOR REQUIRED TO CONNECT NEW LIGHT FIXTURES TO EXISTING PANEL "7K". FURNISH AND INSTALL NEW 20/1 POLE BRANCH BREAKER IN EXISTING SPACE "7K-34". ROUTE CIRCUIT TO NEW POWER PACK.
- FURNISH AND INSTALL NEW CIRCUIT CONSISTING OF 2#12, 1#12EG, 1/2" EMT CONDUIT. CONTRACTOR SHALL CONNECT NEW LIGHTING BRANCH CIRCUIT TO THE EXISTING CANOPY LIGHT FIXTURES AND LIGHTING CONTROLS.
- CONTRACTOR SHALL INCLUDE IN HIS BID MATERIAL AND LABOR REQUIRED TO REPLACE EXISTING CANOPY LIGHT FIXTURES, DISCONNECT EXISTING HOMERUN AND RECONNECT TO NEW LIGHTING CIRCUIT "7K-34".
- APPROXIMATE LOCATION OF EXISTING 208/120 VOLT, THREE, PHASE, 4-WIRE ELECTRICAL PANEL "7K"
- FURNISH AND INSTALL DIMMING POWER PACK FOR CONTROL OF CANOPY LIGHTING. INSTALL POWER BACK INSIDE THE CORRIDOR, ACCESSIBLE ABOVE CEILING. FURNISH AND INSTALL THE DIMMING CONTROL SWITCH ADJACENT TO EXISTING LIGHTING SWITCHES.

LIGHTING CONTROLS LEGEND

	PI2-3BRL-GWH-L01 (CW-1-WH-PICOWBX-ADAPT)
	RMJS-8T-DV-B



TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

DATE: 09/19/2019

SCALE:

REVISIONS:

PHARR-SAN JUAN-ALAMO ISD
BALDEMAR G. CANO CENTRAL
KITCHEN COMPLEX CANOPY
ADDITIONS
800 S STEWART RD. SAN JUAN, TX 78589

TITLE:



HINOJOSA
ENGINEERING, INC.
STRUCTURAL ENGINEERING
CIVIL ENGINEER - TEXAS
108 W. 18TH ST. MISSION, TEXAS
(956) 581-0143
REGISTRATION NUMBER 930 EXPIRATION DATE 08/30/2019

ENGINEER: JAN
DESIGNER: JAN
SURVEYOR:
DRAWN BY: KA
JOB NO.: 19-123
BOOK NO.:

ES-1.0