

# HIDALGO COUNTY PCT. 2 COUNTY WIDE SERVICE SHOP

4011 S. VETERANS BLVD.  
SAN JUAN, TEXAS 78589

SET NO. \_\_\_\_\_

## CONSTRUCTION DOCUMENTS

JULY 1, 2016



COUNTY OF HIDALGO  
3100 SOUTH BUSINESS HIGHWAY 281,  
SUITE D  
PHARR, TEXAS 78539

HIDALGO COUNTY JUDGE  
RAMON GARCIA

COMMISSIONER PRECINCT 1  
AC. CUELLAR, JR.

COMMISSIONER PRECINCT 2  
EDUARDO "EDDIE" CANTU

COMMISSIONER PRECINCT 3  
JOE M. FLORES

COMMISSIONER PRECINCT 4  
JOSEPH PALACIOS



# GENERAL NOTES

THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, AND A201 LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS, ARE HEREBY MADE PART OF CONTRACT DOCUMENTS TO THE SAME EXTENT AS IF BOUND HEREIN.

THE CONTRACTOR SHALL PROVIDE ADEQUATE CONTRACTOR'S LIABILITY AND "ALL RISK" INSURANCE TO COVER 100% OF THE COST OF THE PROJECT. PROVIDE WORKMEN'S COMPENSATION AS REQUIRED BY LAW AND PROVIDE OTHER INSURANCE REQUIRED BY GENERAL CONDITIONS, LANDLORD, LAW OR CODE.

ALL SUBCONTRACTORS MUST BE PRE-APPROVED BY COUNTY OF HIDALGO, AND THE WARREN GROUP ARCHITECTS INC. GENERAL CONTRACTOR MUST SUBMIT A LISTING OF SUBCONTRACTORS PRIOR TO ANY WORK BEGINNING.

GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL PROVIDE, PRIOR TO CONSTRUCTION, UNIT PRICES FOR ALL WORK SHOWN. THESE PRICES SHALL BE VALID FOR THE DURATION OF THE PROJECT AND USED FOR ALL SUBMISSIONS REGARDING ADDITIONS OR DELETIONS TO SCOPE OF WORK.

UNLESS OTHERWISE STIPULATED, THE GENERAL CONTRACTOR SHALL PROVIDE AND PAY FOR ALL MATERIALS, LABOR, TAXES, WATER, TOOLS, EQUIPMENT, LIGHT, POWER, TRANSPORTATION AND OTHER FACILITIES NECESSARY FOR THE EXECUTION AND COMPLETION OF THE WORK.

THE CONTRACTOR AND HIS SUB-CONTRACTORS SHALL KEEP WORK AREA IN A CLEAN AND ORDERLY MANNER, REMOVING DEBRIS ON A ROUTINE BASIS.

## CONTRACTOR REVIEW:

GENERAL CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSION FOR ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE, AS SHOWN, BEFORE SUBMITTING FINAL PRICING AND PROCEEDING WITH CONSTRUCTION. FAILURE TO REPORT A CONFLICT IN THE CONTRACT DOCUMENTS SHALL BE DEEMED EVIDENCE THAT THE CONTRACTOR HAS ELECTED TO PROCEED IN THE MORE EXPENSIVE MANNER.

CONTRACTOR IS RESPONSIBLE TO PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES HAVING JURISDICTION.

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# PROJECT TEAM

## OWNER:

COUNTY OF HIDALGO  
ERIKA ZAMORA  
DIRECTOR OF ADMINISTRATIVE OPERATIONS  
HIDALGO COUNTY PRECINCT #2  
300 WEST HALL ACRES, SUITE G  
PHARR, TX 78589  
956.787.1891 EXT. 2015 OFFICE  
ERIKA.ZAMORA@CO.HIDALGO.TX.US

## ARCHITECT:

The Warren Group Architects, Inc.  
Contact: Laura Nasser Warren, AIA  
1801 S. 2nd St. Suite 330  
McAllen, Texas 78503  
956.994.1900  
956.994.1960 fax  
lwarren@twgarch.com

## ARCHITECT CONSULTANTS:

### MEP ENGINEER:

MEP Solutions Engineering  
Contact: Luis Javier Pina, PE  
Abram L. Dominguez, PE  
600 E Beaumont Ave. Suite 2  
McAllen, Texas 78501  
956.664.2727  
956.664.2726 fax  
jpina@mepsolutionsengineering.com  
adominguez@mepsolutionsengineering.com

### STRUCTURAL ENGINEER:

McHale Engineering  
Contact: Gary McHale, P.E.  
2000 Avenue G Ste. 100  
Plano, Texas 78074

### GEOTECHNICAL:

MILLENNIUM ENGINEERS GROUP, INC.  
TBPE Firm No. F-3913  
705 Dowson Drive  
PO BOX 7569  
Edinburg, TX 78540-4569  
Tel: 956.383.8522  
Fax: 956.383.0295

### CIVIL ENGINEER:

Hidalgo County Precinct No. 2  
Raul E. Sasin  
300 W. Hall Acres, Suite G  
Pharr, TX 78577  
Tel: 956.787.1981  
Fax: 956.787.4683  
www.co.hidalgo.tx.us

# CODE CHECK

## GENERAL - PROJECT IDENTIFICATION

LIST OF APPLICABLE CODES (TITLES & EDITIONS)  
-TEXAS ACCESSIBILITY STANDARDS (TAS), 2012 EDITION.  
-INTERNATIONAL BUILDING CODE (IBC), 2009 EDITION.  
-INTERNATIONAL ENERGY CONSERVATION CODE(IECC), 2009 EDITION.  
-NATIONAL FIRE PROTECTION ASSOCIATION - NFPA 2012

LIST OF APPLICABLE ORDINANCES AND JURISDICTIONS  
CITY OF SAN JUAN CODE OF ORDINANCES, CURRENT EDITION.

## PROJECT DESCRIPTION

APPROXIMATE OVERALL SITE AREA: 19.748 ACRES  
TOTAL BUILDING GROSS AREA 16,528 S.F.

## ACCESSIBILITY DESIGN CRITERIA (TAS-ADA)

EXTERIOR ACCESSIBLE PARKING SPACES ADA- TABLE 208.2  
REQUIRED 1 ACC PK SPACES  
PROVIDED 1 ACC PK SPACES  
ACCESSIBLE ENTRANCES 66% (REQUIRED) 100% (PROVIDED)

## BUILDING DESIGN CRITERIA - 2009 IBC CODE

USE GROUP (OCCUPANCY) CLASSIFICATION(S)

MAIN:	TYPE II-B	STORAGE (S1)
TYPE OF CONSTRUCTION	UNPROTECTED- NON SPRINKLED	

### ALLOWABLE BUILDING HEIGHT AND AREA:

IBC 2009 EDITION, TABLE 503	17,500 S.F.
ACTUAL AREA	16,504 S.F.
ALLOWABLE BUILDING HEIGHT:	2 STORIES 55 FT.
ACTUAL BUILDING HEIGHT:	1 STORY 29'-10"

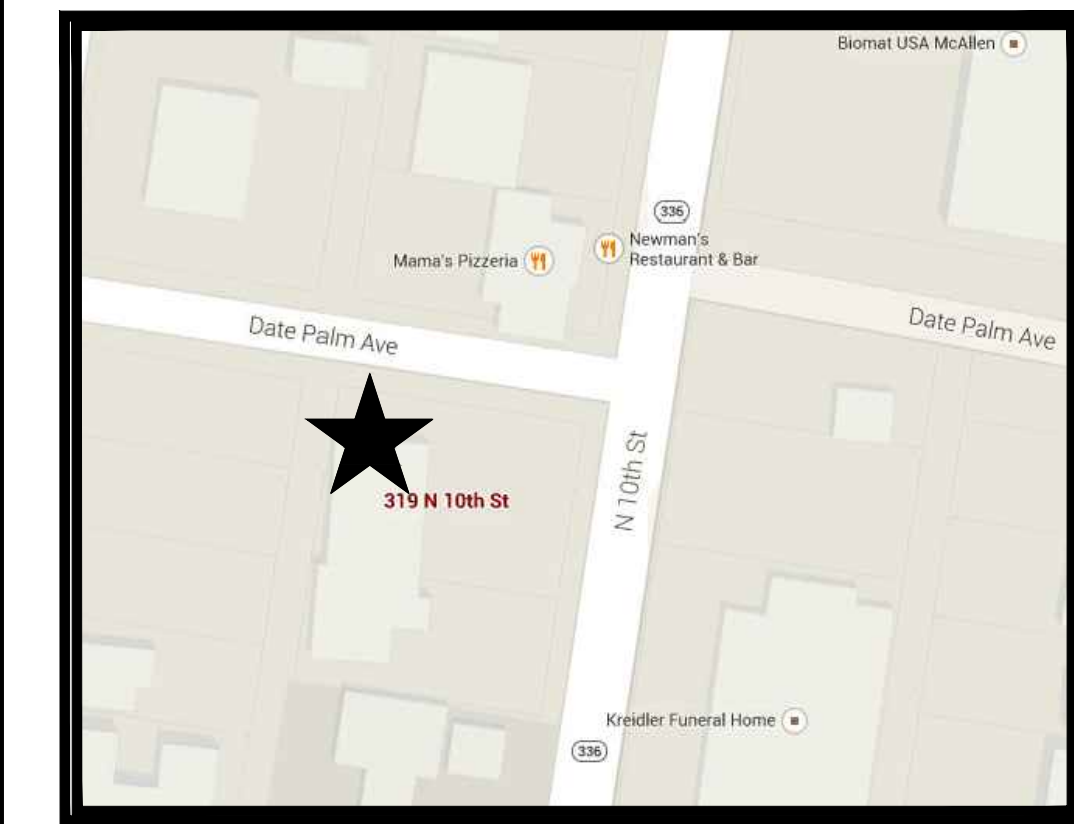
### NOTES:

1. ALL REQUIRED PERMITS MUST BE OBTAINED FROM THE CITY OF SAN JUAN FIRE DEPARTMENT BEFORE THE BUILDING IS OCCUPIED.
2. EXIT DOORS TO BE OPENABLE FROM INSIDE WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

# ALTERNATES

GENERAL CONTRACTOR TO REFER TO SPECIFICATIONS SECTION 01 23 00 ALTERNATES AND SEPARATE PRICES.

# VICINITY MAP



HIDALGO COUNTY PCT. 2  
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ALL CONSTRUCTION SHALL COMPLY WITH AMERICAN'S WITH DISABILITIES ACT, PUBLIC LAW 101-336 AND TAS COMPLIANT.

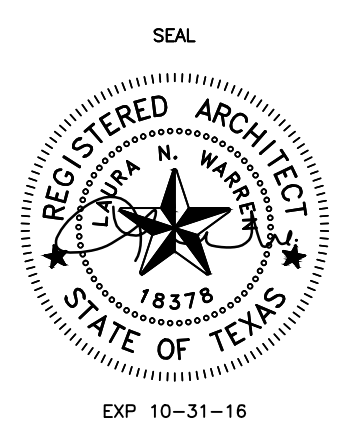
GENERAL CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS FOR ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE, AS SHOWN, BEFORE SUBMITTING FINAL PRICING FOR THE WORK IN QUESTION OR RELATED WORK.



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REVISION	DATE	APPROVED BY	DESCRIPTION



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PROJECT 1341501  
DATE 07/01/2016  
REVISED

**G0.01**  
GENERAL NOTES

# ARCHITECTURAL ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS ARE USED

CL	CENTERLINE
ACoust	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
ACP	ACOUSTICAL CEILING PANEL
ADA	AMERICANS WITH DISABILITIES ACT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISH FLOOR
ALT	ALTERNAT(-E,-IVE)
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
APPROX	APPROXIMATE(-E,-LY)
ARCH	ARCHITECT (-URAL)
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVG	AVERAGE
BLDG	BUILDING
BM	BENCH MARK
BOLL	BOLLARD
BFT	BELOW FINISH FLOOR
CH	CEILING HEIGHT
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
COL	COLUMN
COLS	COLUMNS
CONC	CONCRETE
COORD	COORDINATE
CPT	CARPET
CJ	CONTROL JOINT
CT	CERAMIC TILE
DEMO	DEMOLISH OR DEMOLITION
DET	DETAIL(-S)
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION(-S)
DL	DOCK LEVELER
DR	DOOR
DS	DOWN SPOUT
DWG(S)	DRAWING(-S)
(E)	EXISTING
EA	EACH
EW	EMERGENCY EYE-WASH
EWS	EMERGENCY EYE-WASH AND SHOWER
EF	EACH FACE OR EXHAUST FAN
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
ELEV	ELEVATION
ELEC	ELECTRIC(-AL)
EMERG	EMERGENCY
EOD	EDGE OF DOCK
EQ	EQUAL(-LY)
EQUIP	EQUIPMENT
EXT	EXTERIOR
EW	EACH WAY
EP	ELECTRICAL POWER & METER CAN
(F)	FIXTURE
FA	FIRE ALARM
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH, FINISH FLOOR
FH	FIRE HYDRANT
FLR	FLOOR
FRT	FIRE-RETARDANT TREATED
FTG	FOOTING
FURN	FURNITURE
GA	GAUGE
GDL	GROUND LEVEL
GYP	GYPSONUM
HB	HOSE BIB
HC	(HANDICAP) ACCESSIBLE
HGT,HT	HEIGHT
HORIZ	HORIZONTAL
HVAC	HEATING, VENTILATION & AIR CONDITIONING
IN	INCH(-ES)
JB,JB-BOX	JUNCTION BOX
JST	JOIST
JT	JOINT
LAV	LAVATORY
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MTL	METAL
MIN	MINIMUM
N	NORTH
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NOP	KNOCK-OUT PANEL
OC	ON CENTER
OTS	OPEN TO STRUCTURE
PERF	PERFORAT(-E, -ED, -ES, -ATION)
PL	PROPERTY LINE, PLATE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PROJ	PROJECT(-TION)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
P-J	PANEL JOINT
RAD	RADIUS
RE	REFER, REFERENCE
REQ	REQUIRED
RL	RISER LINE (STAIRS)
RR	RESTROOM
SCH	SCHEDULE
SHT	SHEET
SPECS	SPECIFICATIONS
SQ	SQUARE
SQ FT	SQUARE FEET
SQ IN	SQUARE INCHES
STD	STANDARD
STOR	STORAGE
STRUCT	STRUCTURE
S/W	SIDEWALK
SYM	SYMMETRICAL
TEMP	TEMPORARY
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
W/	WITH
W/O	WITHOUT
XFMR	TRANSFORMER

# SYMBOLS

## ANNOTATION

	BUILDING ELEVATION REFERENCE
	BUILDING SECTION REFERENCE
	WALL SECTION REFERENCE
	DETAIL REFERENCE
	NORTH ARROW
	INTERIOR ELEVATION REFERENCE
	STRUCTURAL GRID
	ELEVATION OF ARCHITECTURAL ELEMENT
	ROOM/SPACE IDENTIFIER ROOM NAME ROOM NUMBER
	TITLE MARK REFERENCE NUMBER
	BREAK MARK
	REFERENCE TO SHEET WHERE WORK THIS SIDE OF MATCHLINE IS DRAWN
	PARTITION TYPE
	WINDOW TYPE REFERENCE
	DOOR TYPE REFERENCE
	DOOR REFERENCE NUMBER
	ACCESSORY KEY
	EQUIPMENT KEY
	REVISION NUMBER
	CEILING HEIGHT MARKER

## ELECTRICAL

	2'x4' RECESSED FLUORESCENT FIXTURE
	2'x4' RECESSED FLUORESCENT FIXTURE W/ EMERGENCY BALLAST
	2'x2' RECESSED FLUORESCENT FIXTURE
	1'x4' RECESSED FLUORESCENT FIXTURE W/ EMERGENCY BALLAST
	LED RECESSED WALL WASHER
	2 LAMP SURFACE MOUNTED FLUORESCENT FIXTURE
	2 LAMP SURFACE MOUNTED FLUORESCENT FIXTURE W/ EMERGENCY BALLAST
	RECESSED, EXTERIOR GRADE CAN LIGHTING
	EMERGENCY LIGHT (BATTERY POWERED)
	TRANSFORMER
	EMERGENCY EXIT SIGN

## PLUMBING - CIVIL

	LIGHT POLE WITH A 36" HIGH CONCRETE BASE
	FIRE HYDRANTS
	IRRIGATION PIPE

NOTE: NOT ALL SYMBOLS ARE USED. SEE OTHER SPECIFIC SYMBOL LEGENDS ON EACH DRAWING WHERE OCCURS.

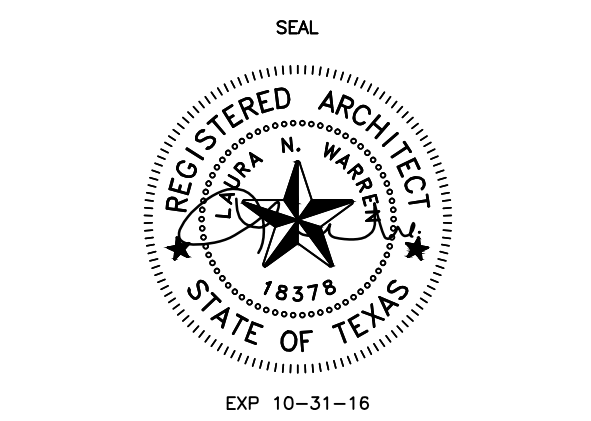
# MATERIALS

	CAST IN PLACE CONCRETE		WOOD BLOCKING
	PRECAST CONCRETE		ROUGH WOOD
	STEEL		FINISH WOOD
	METAL STUDS		PLYWOOD
	GLASS		RIGID INSULATION
	CONCRETE MASONRY UNITS		BATT INSULATION
	LANDSCAPE AREA		

**TWG**  
THE WARREN GROUP ARCHITECTS, INC.  
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REVISION	DATE



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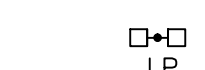


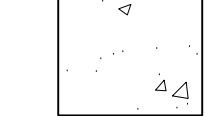
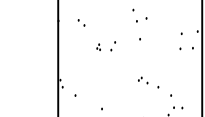

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DATE 07/01/2016  
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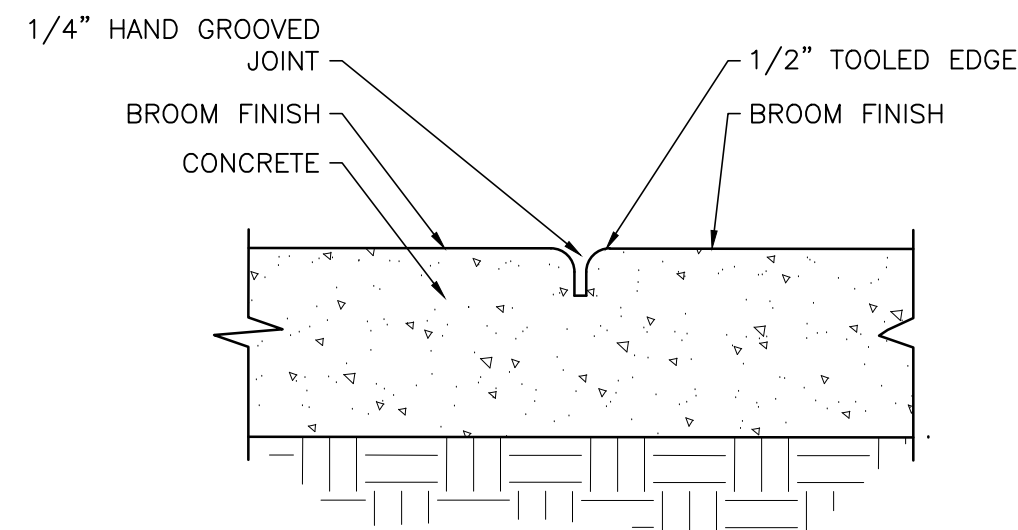
**G0.02**  
ABBREVIATIONS AND SYMBOLS

**SHEET NOTES**

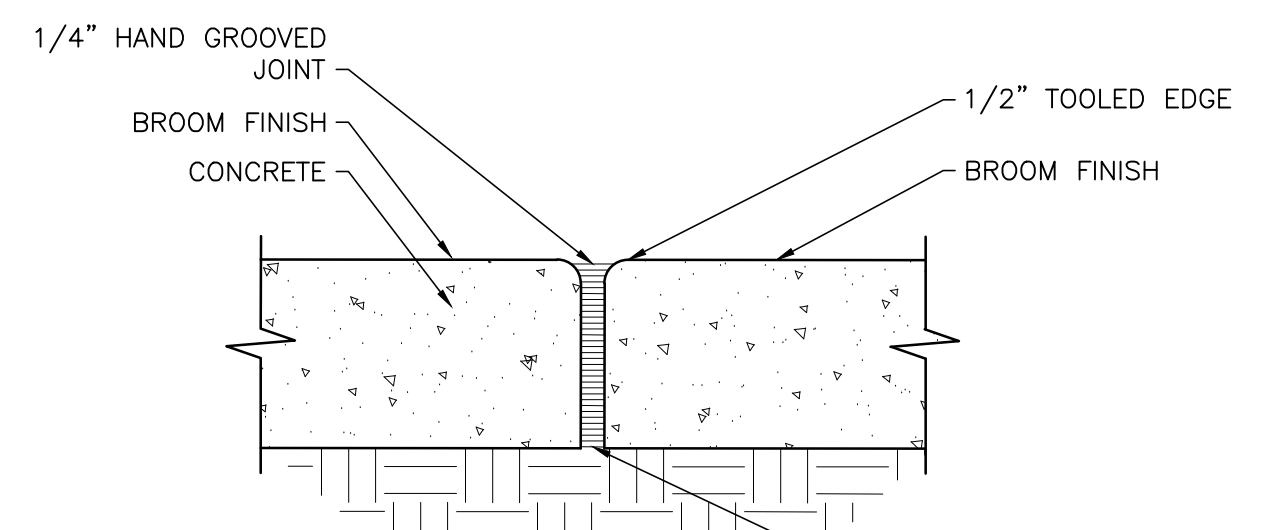
1. REFER CIVIL DRAWINGS FOR SITE NEW AND EXISTING GRADING, EROSION CONTROL, AND SITE DIMENSION CONTROL INFORMATION.
2. REFER TO CIVIL DRAWINGS FOR SITE DEMOLITION SCOPE.

**SHEET LEGEND**

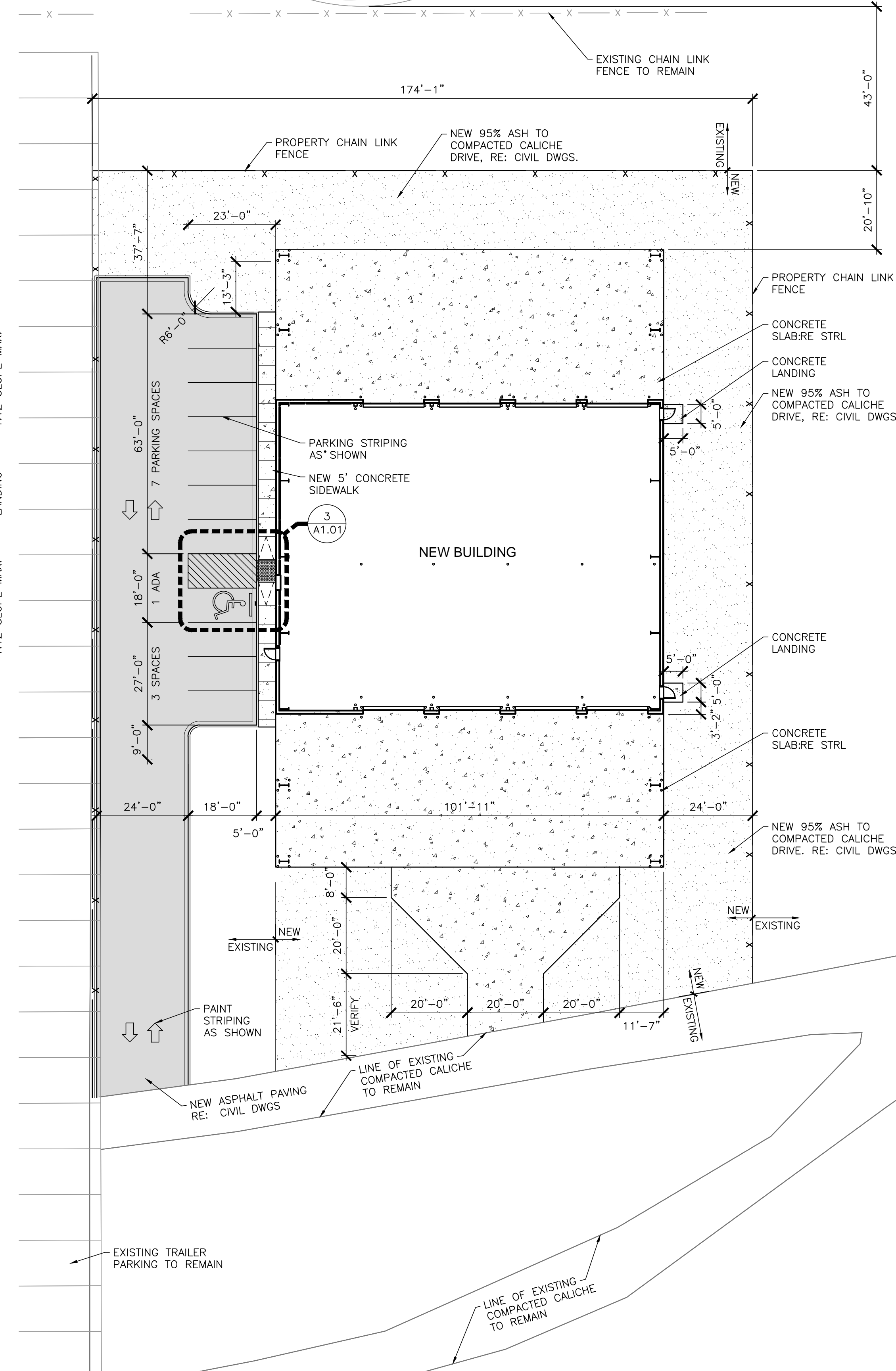
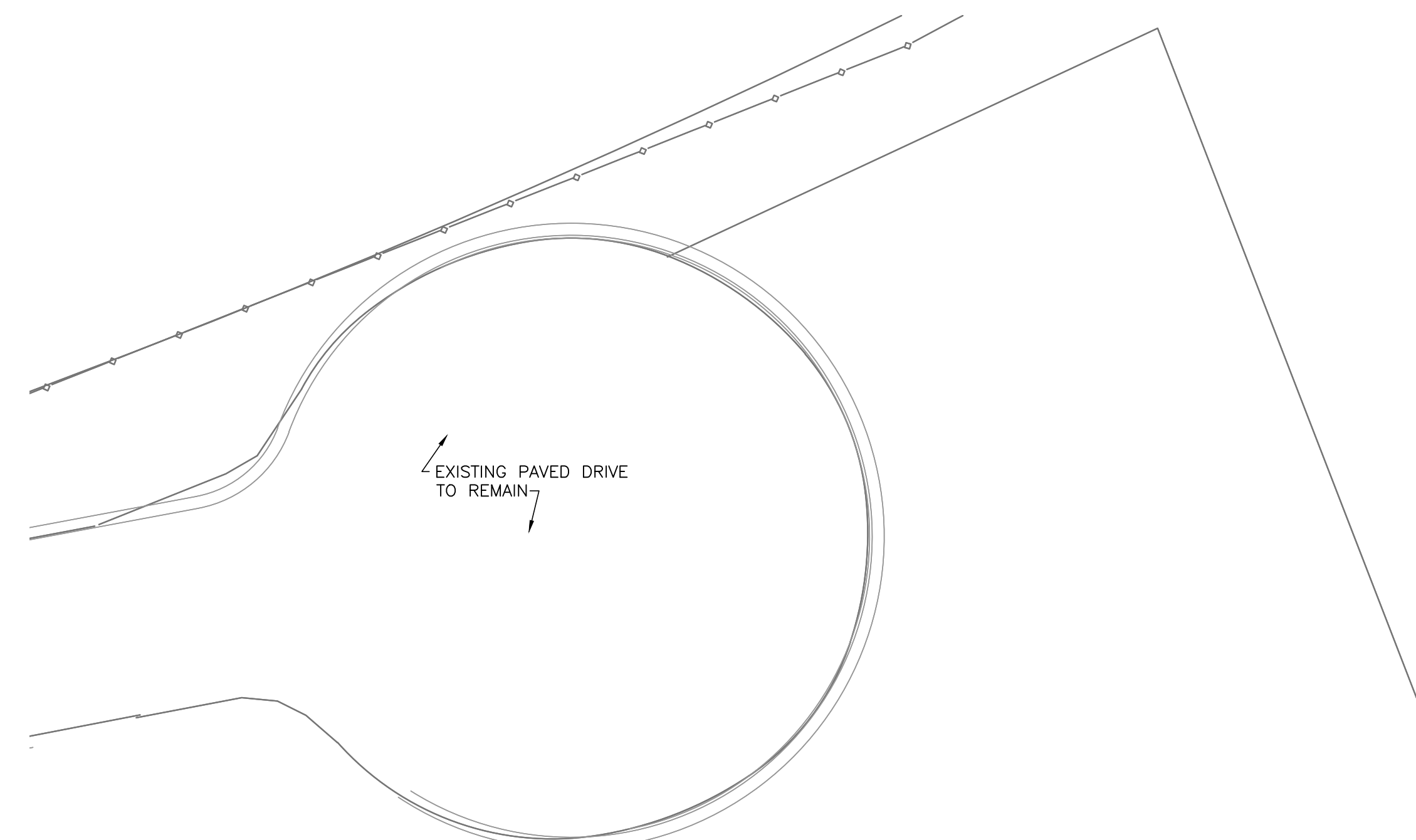
-  DUAL HEAD LIGHT POLE - RE: ELECTRICAL DRAWINGS
-  4\"
-  TRANSFORMER PAD - REFER: ELEC. DWGS.
-  CONCRETE PAD. RE: STRUCTURAL DRAWINGS
-  NEW COMPACTED CALICHE SURFACE/DRIVE. RE: CIVIL DRAWINGS
-  ASPHALT PAVING. RE CIVIL DRAWINGS



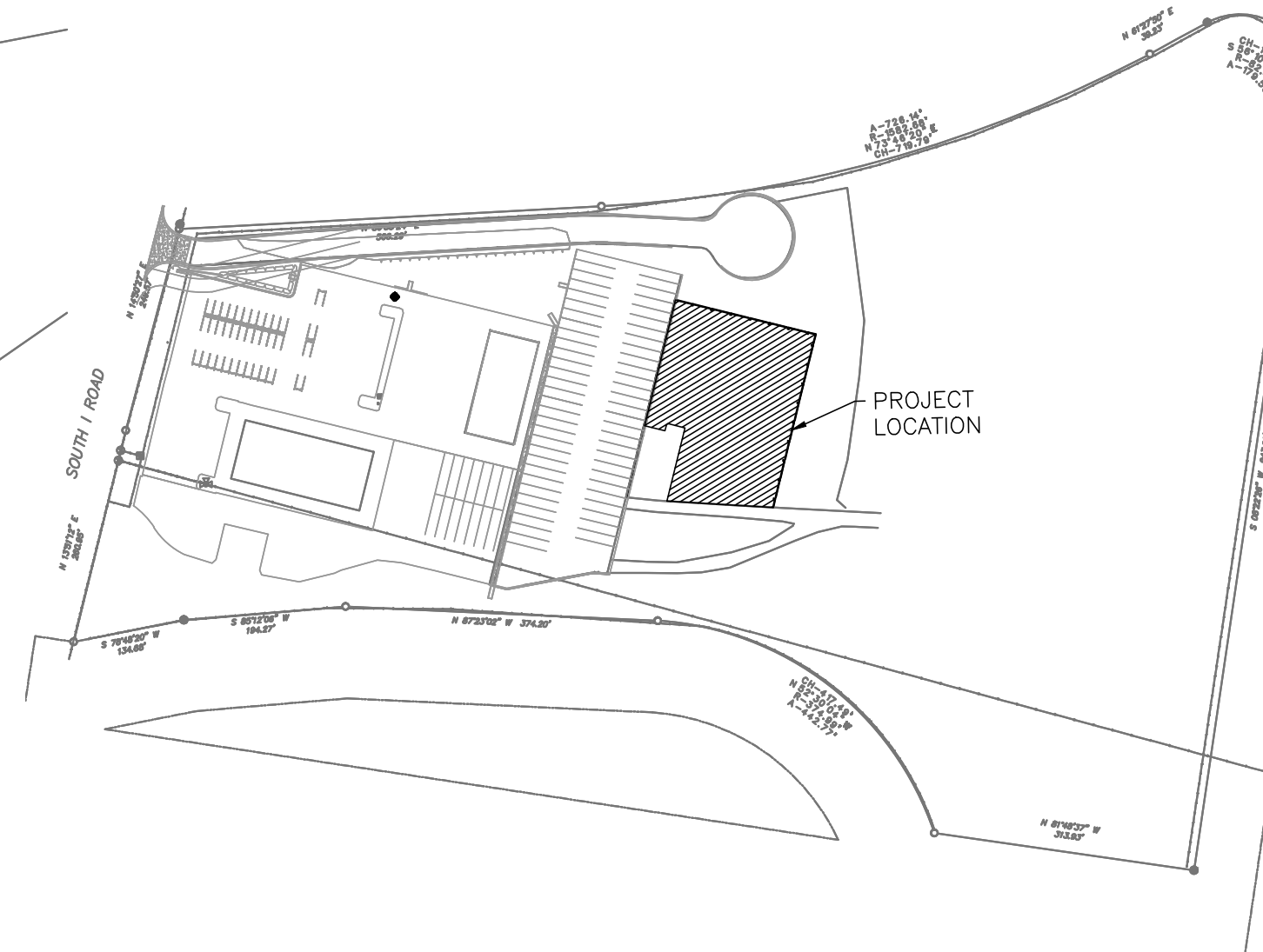
**CONTROL JOINT**



**EXPANSION JOINT**



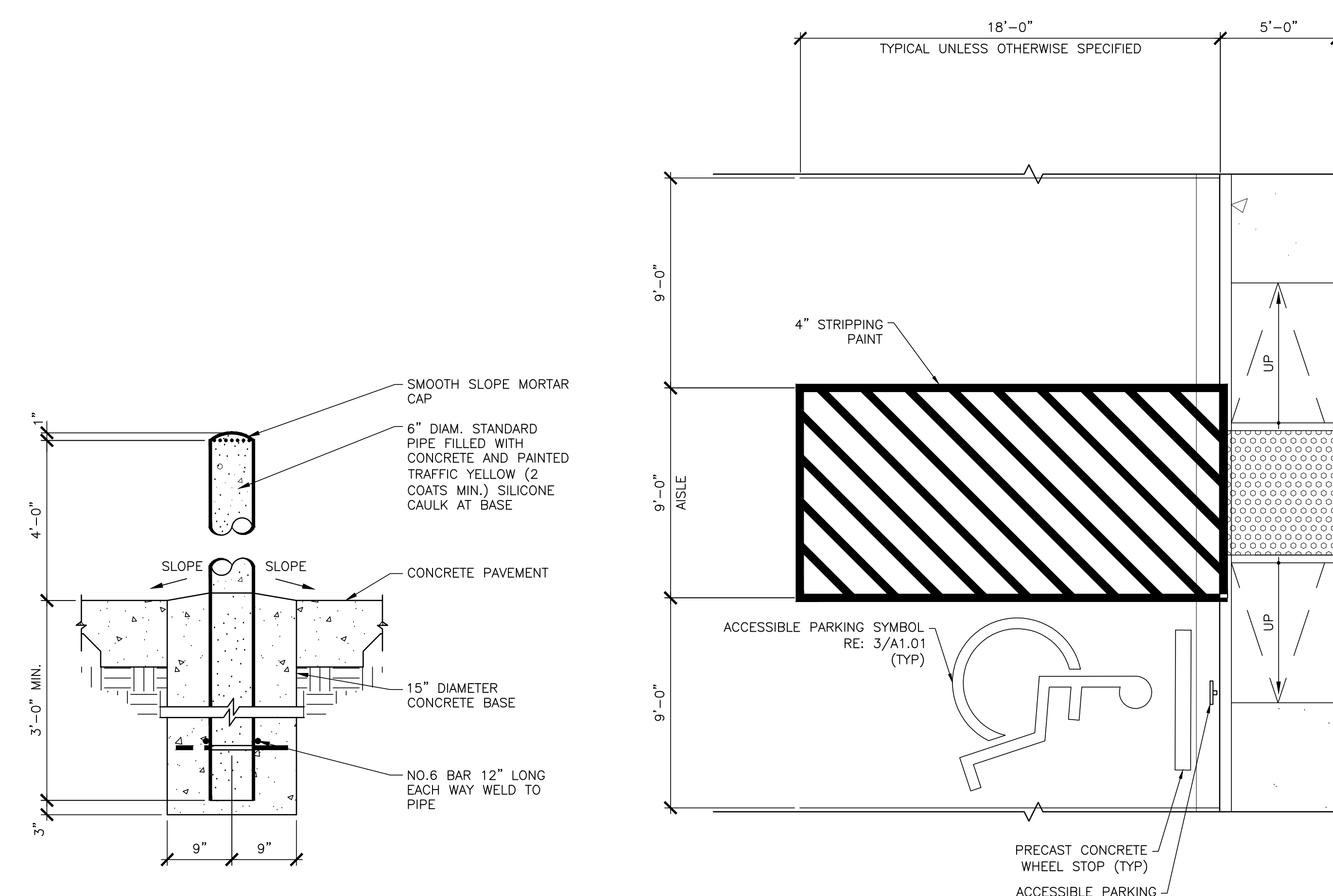
**2 SITE PLAN**  
SCALE: 1"=20'-0"



**1 LOCATION SITE PLAN**  
SCALE: 1"=100'-0"

**7 CONCRETE JOINT DETAILS**

SCALE: NTS SITE\_DET\_L\_005



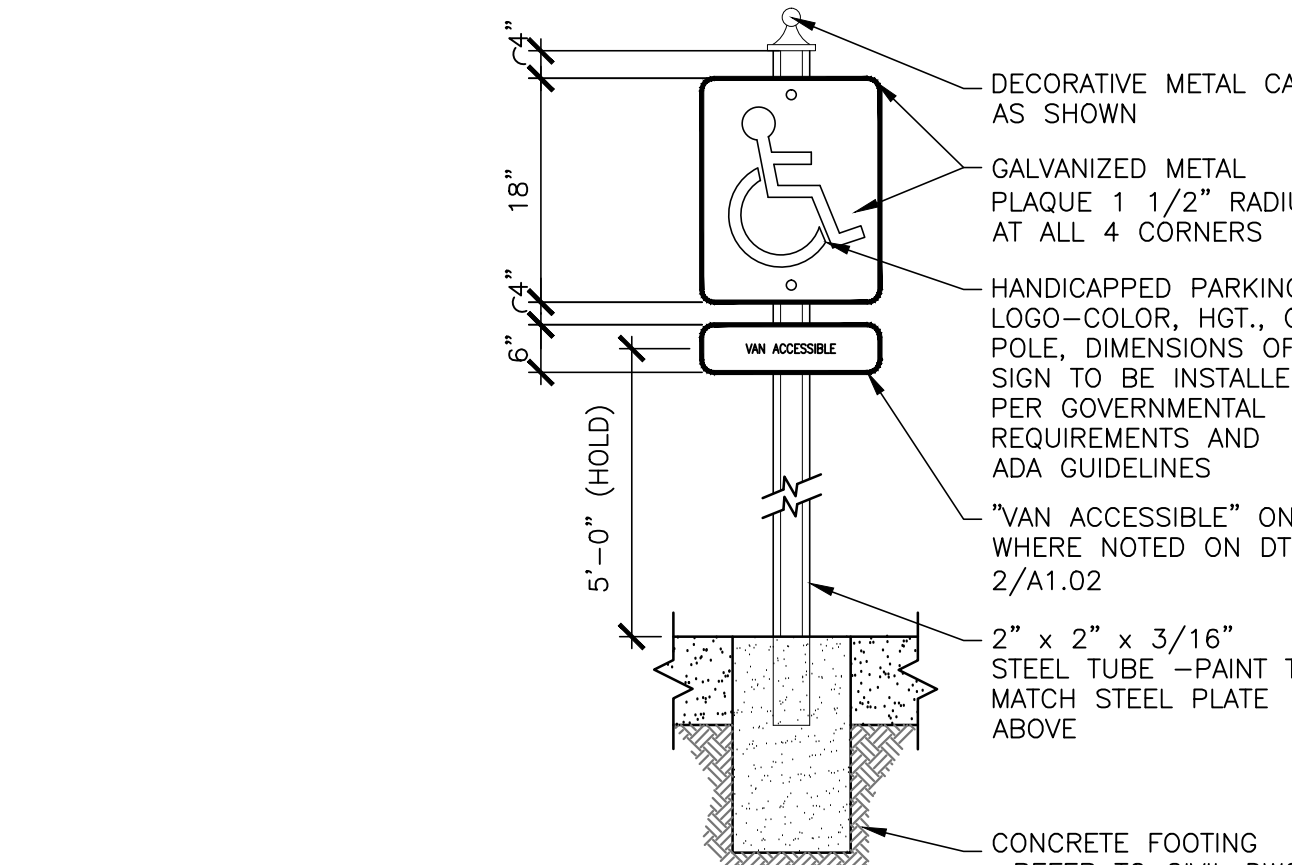
**6 PIPE BOLLARD - DETAIL**

SCALE: 3/8"=1'-0" SITE\_DET\_L\_003

**5 ACCESSIBLE PARKING DETAIL**

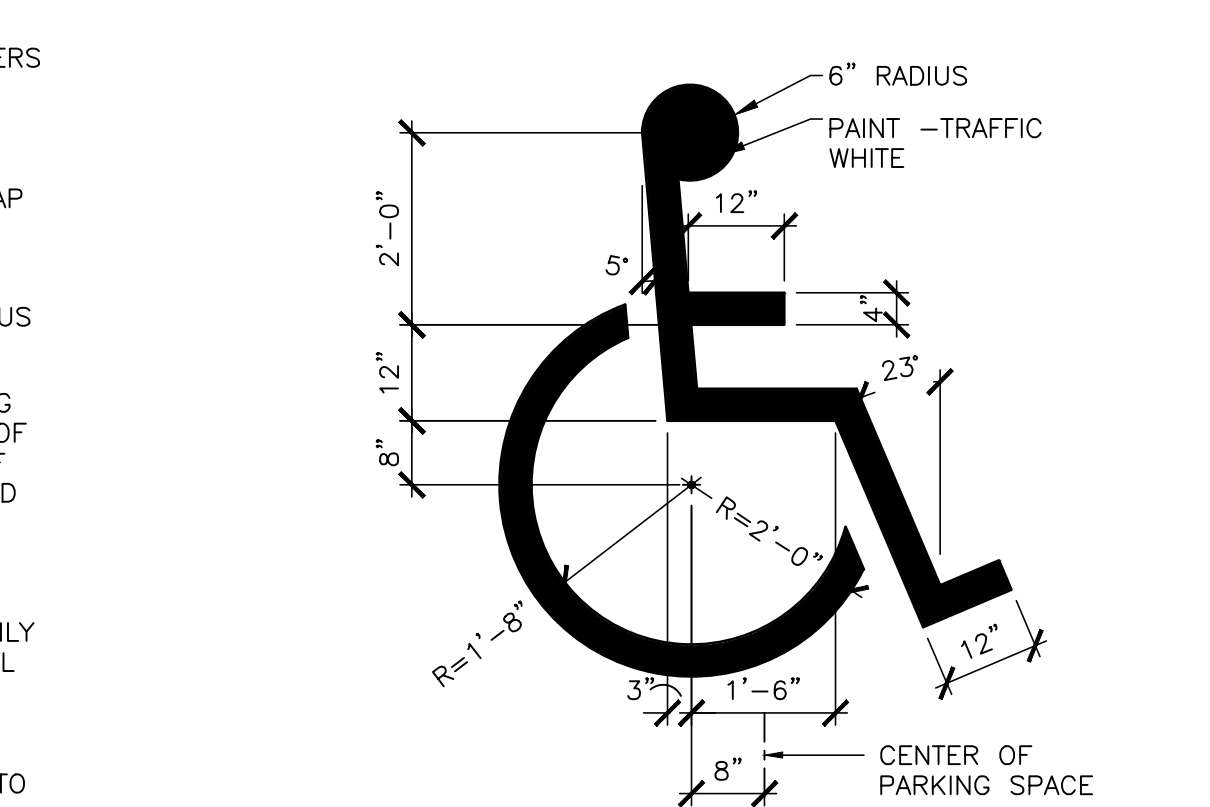
SCALE: 1/4"=1'-0" NORTH

- NOTE:**
1. SIGNS SHOULD BE PROPERLY CENTERED AT FRONT OF PARKING SPACE
  2. SIGN FACE SHOULD BE LOCATED NO FURTHER THAN 6' FROM THE FRONT OF EACH PARKING SPACE WITH MINIMUM 3'-0" CLEAR
  3. MOUNT SIGN ON COLUMN OR WALL AT SIM. CONDITION
  4. WHERE SIGN IS PLACED IN PAVED AREA AT PARKING STALLS, PROVIDE PRECAST BUMPERS
  5. PROVIDE "VAN ACCESSIBLE" SIGN AS SHOWN AT VAN ACCESSIBLE PARKING SPACE



**4 ACCESSIBLE SIGN DETAIL**

NOT TO SCALE SITE\_DET\_L\_002



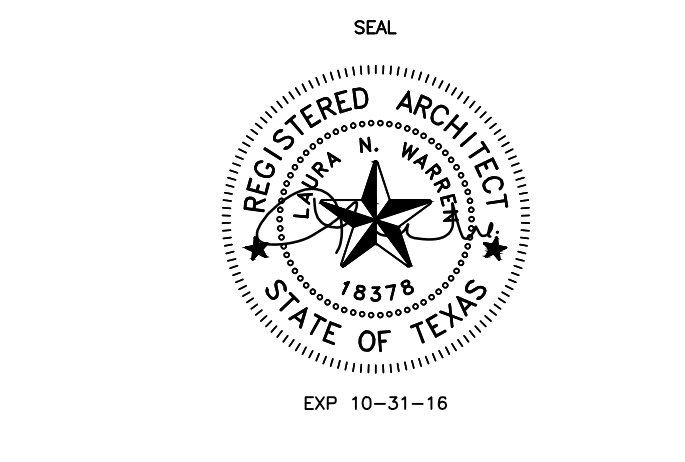
**3 ACCESSIBLE PARKING SYMBOL**

NOT TO SCALE SITE\_DET\_L\_001



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**A1.01  
SITE PLAN**

SHEET LEGEND

□ DS	DOWNSPOUT
■ WP	WALL PACK. RE: ELECTRICAL DWGS.
F.E.	5 LB FIRE EXTINGUISHER
° BOL.	6"X5" TALL CONCRETE FILLED PIPE BOLLARD REFER X.
E.E.W.	EMERGENCY EYE WASH AND SHOWER STATION
⊕	FLOOR DRAIN WITH SEPARATOR RE: PLUMBING DWGS.
FD	FLOOR DRAIN. RE: STRUCTURAL



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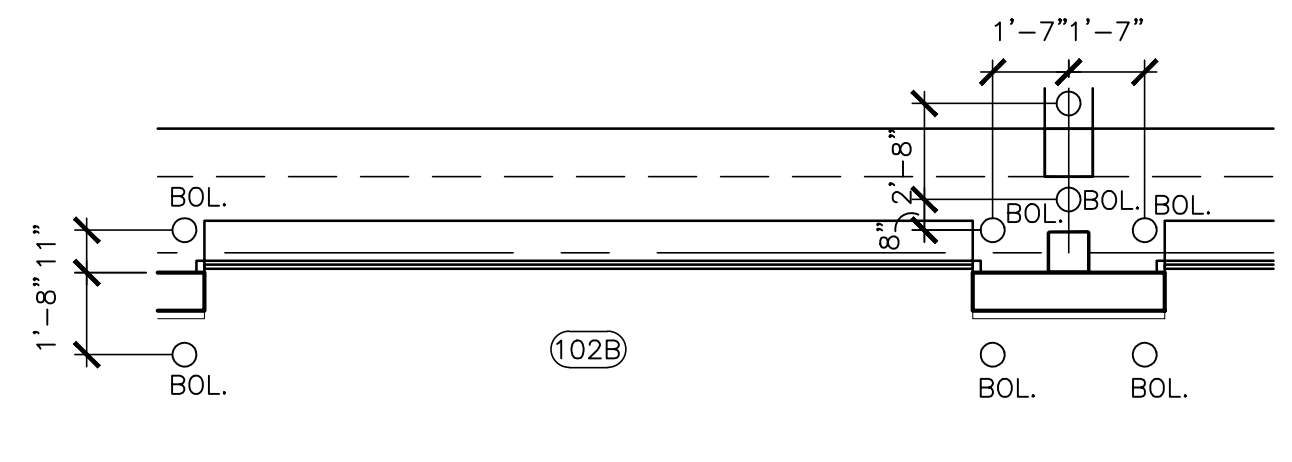
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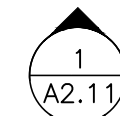
PROJECT 1341501  
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**A1.11**  
 FLOOR PLAN



**2** PARTIAL FLOOR PLAN  
 SCALE: 1/4"=1'-0"

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

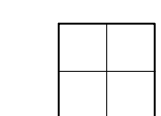

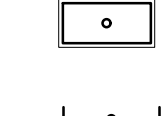
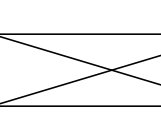
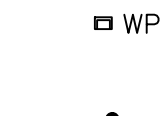

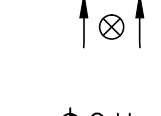





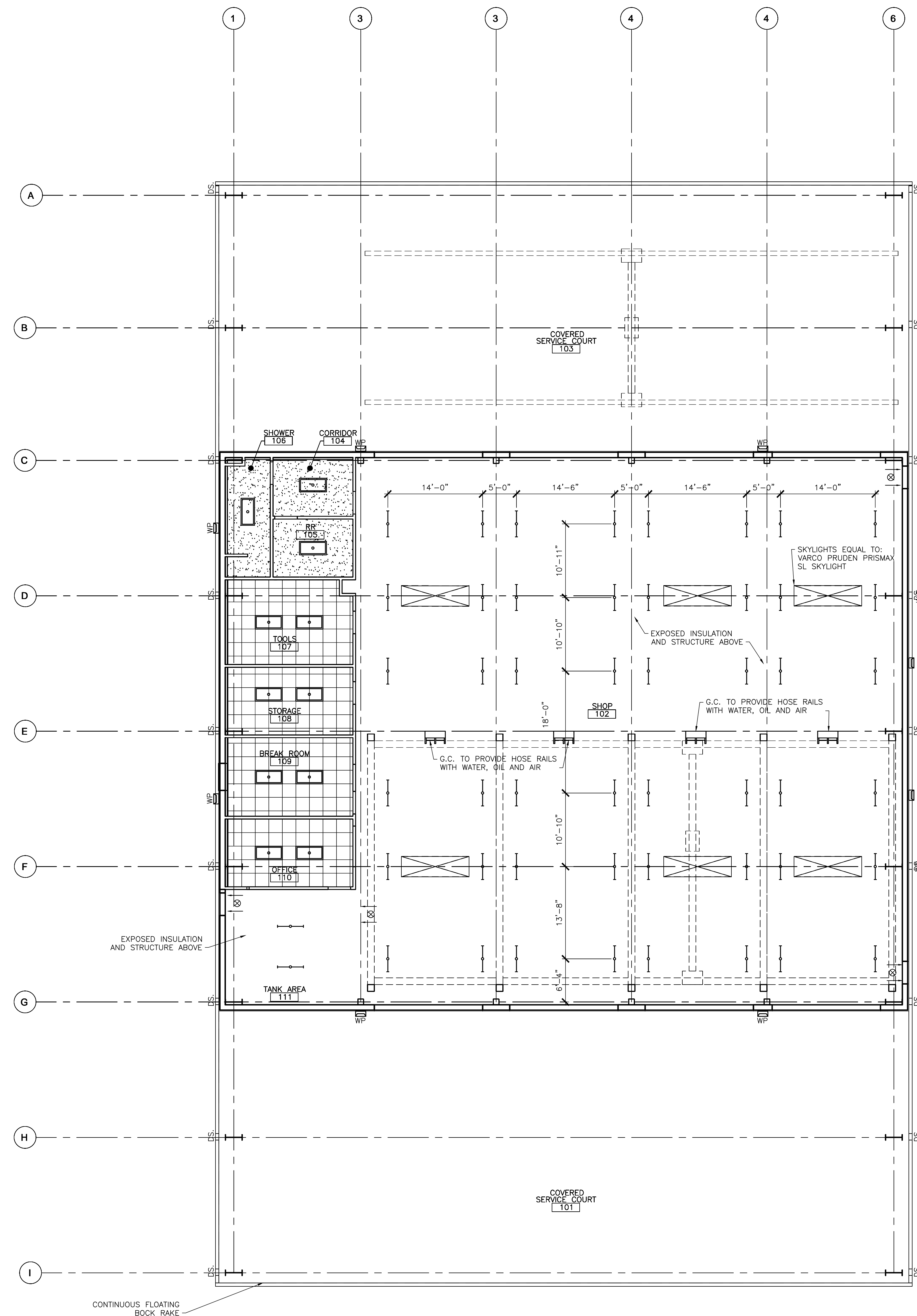
NORTH

**SHEET NOTES**

1. ALL CEILING HEIGHTS TO BE 9'-0" UNLESS OTHERWISE NOTED.

**SHEET LEGEND**

-  2'x2' ACOUSTICAL CEILING TILE
-  GYPSUM BOARD CEILING
-  2'x4' FLUORESCENT RECESSED LIGHT
-  HIGH BAY 2'x4' FLUORESCENT FIXTURE WITH PROTECTIVE CAGE
-  3'x10' SKYLIGHT EQUAL TO: VARCO PRUDEN PRISMAX SL SKYLIGHT
-  WP LED WALL PACK
-  4' EXTERIOR GRADE RECESSED LED CAN LIGHT
-  EMERGENCY EXIT SIGN
-  C.H. CEILING HEIGHT
-  COMMERCIAL FAN EQUAL TO: BIG ASS FANS YELLOW JACKET WITH PORTABLE BASE AND WHEEL SET

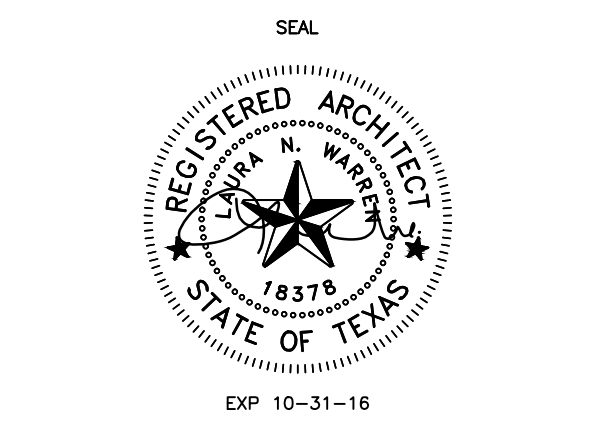


**REFLECTED CEILING PLAN**  
SCALE: 1/8"=1'-0"  
NORTH



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REVISION	DATE	DESCRIPTION



PROPOSED  
**HIDALGO COUNTY  
PCT. 2  
COUNTY WIDE  
SERVICE SHOP**  
4011 S. VETERANS BLVD.  
SAN JUAN, TEXAS 78589

PROJECT 1341501  
DATE 07/01/2016  
REVISED

**A1.21  
CEILING PLAN**

**SHEET NOTES**

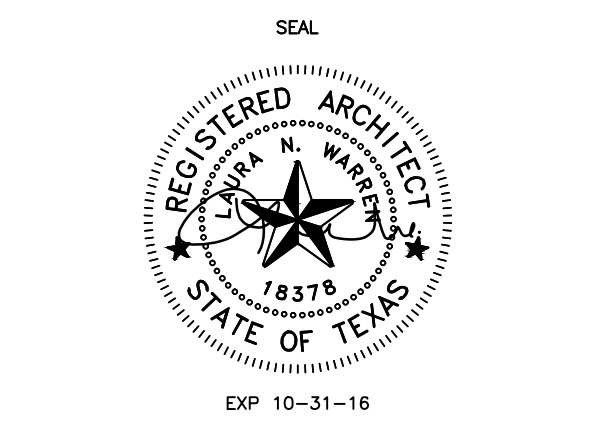
1. REFER STRUCTURAL DRAWINGS FOR TOP OF STEEL HEIGHTS.

**SHEET LEGEND**

- DS DOWN SPOUTS
- WP WALL PACK

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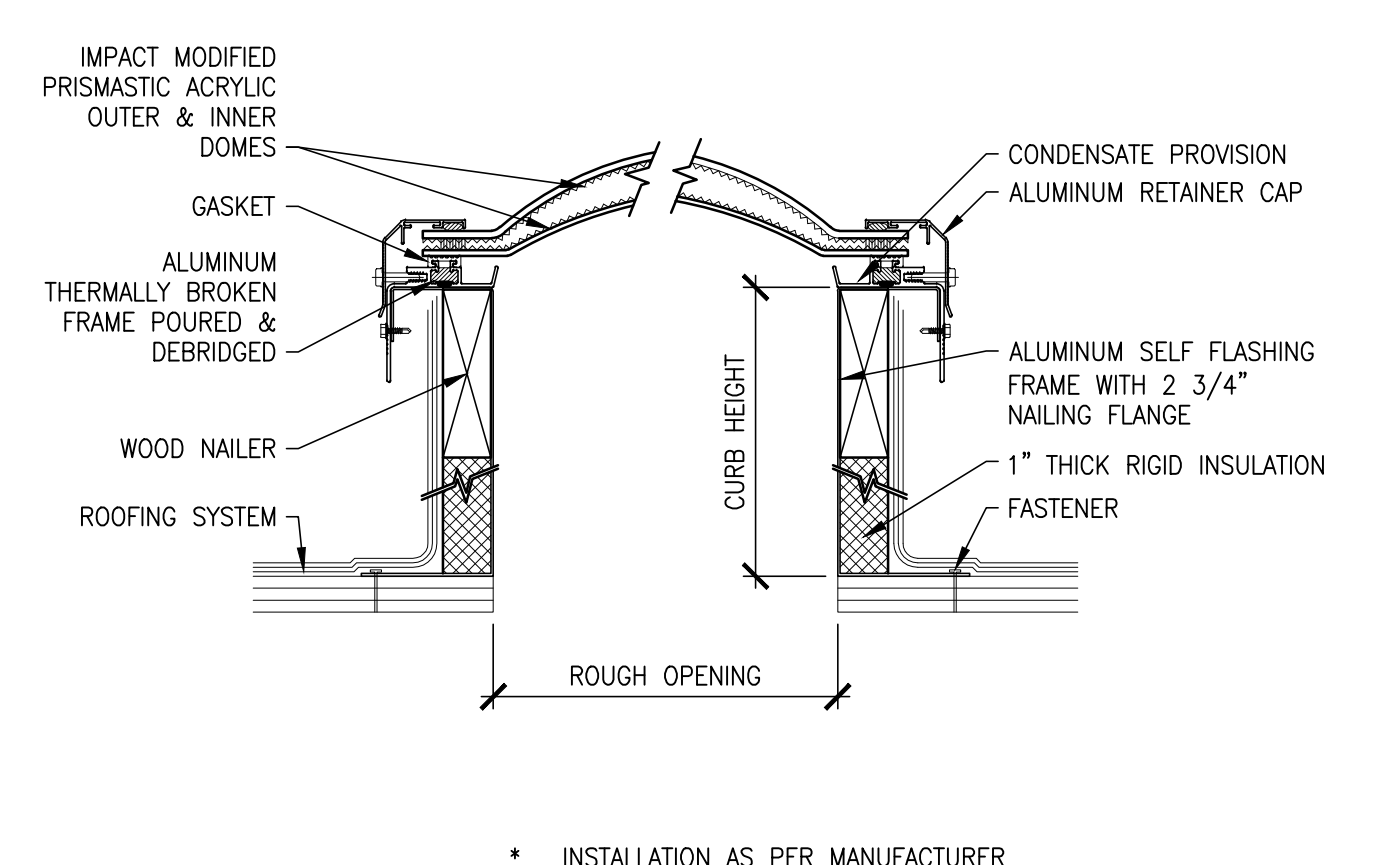
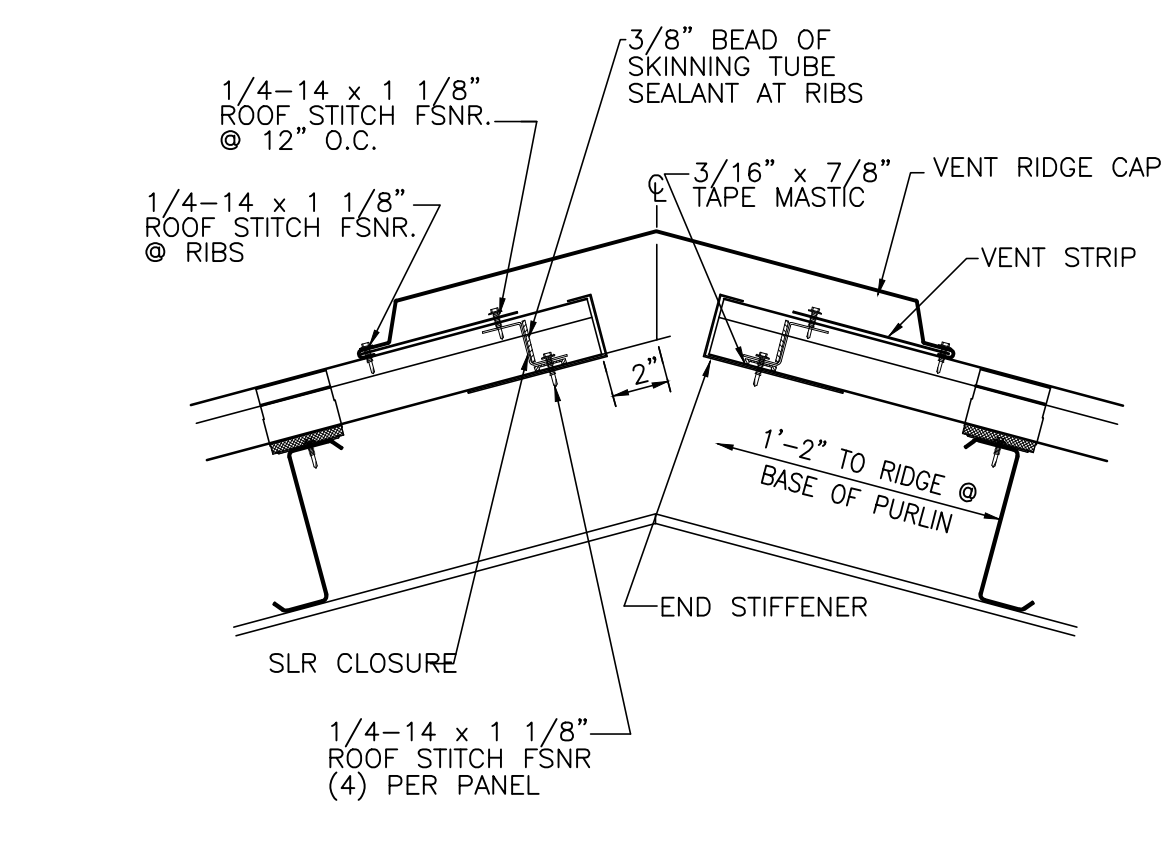
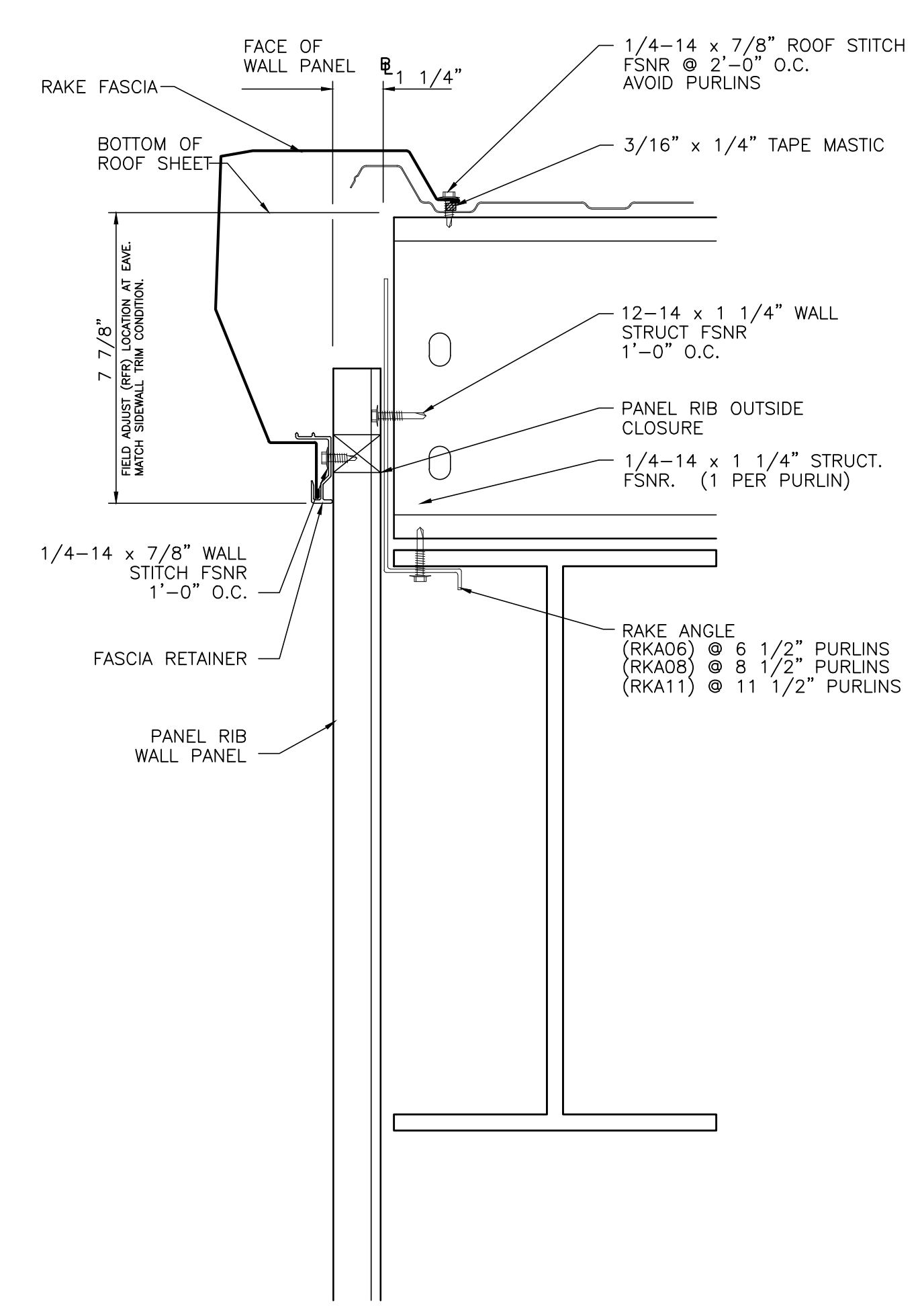
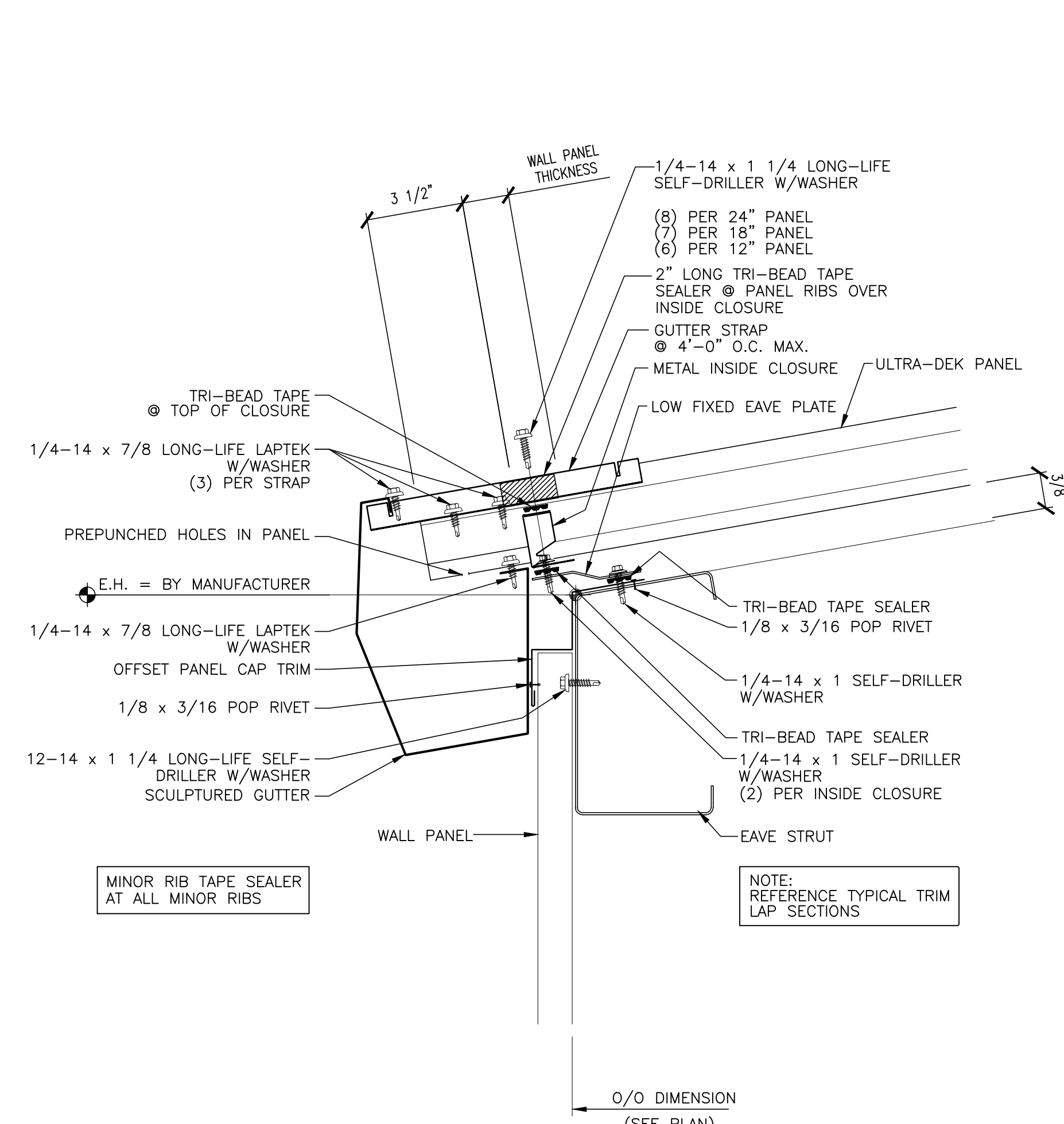
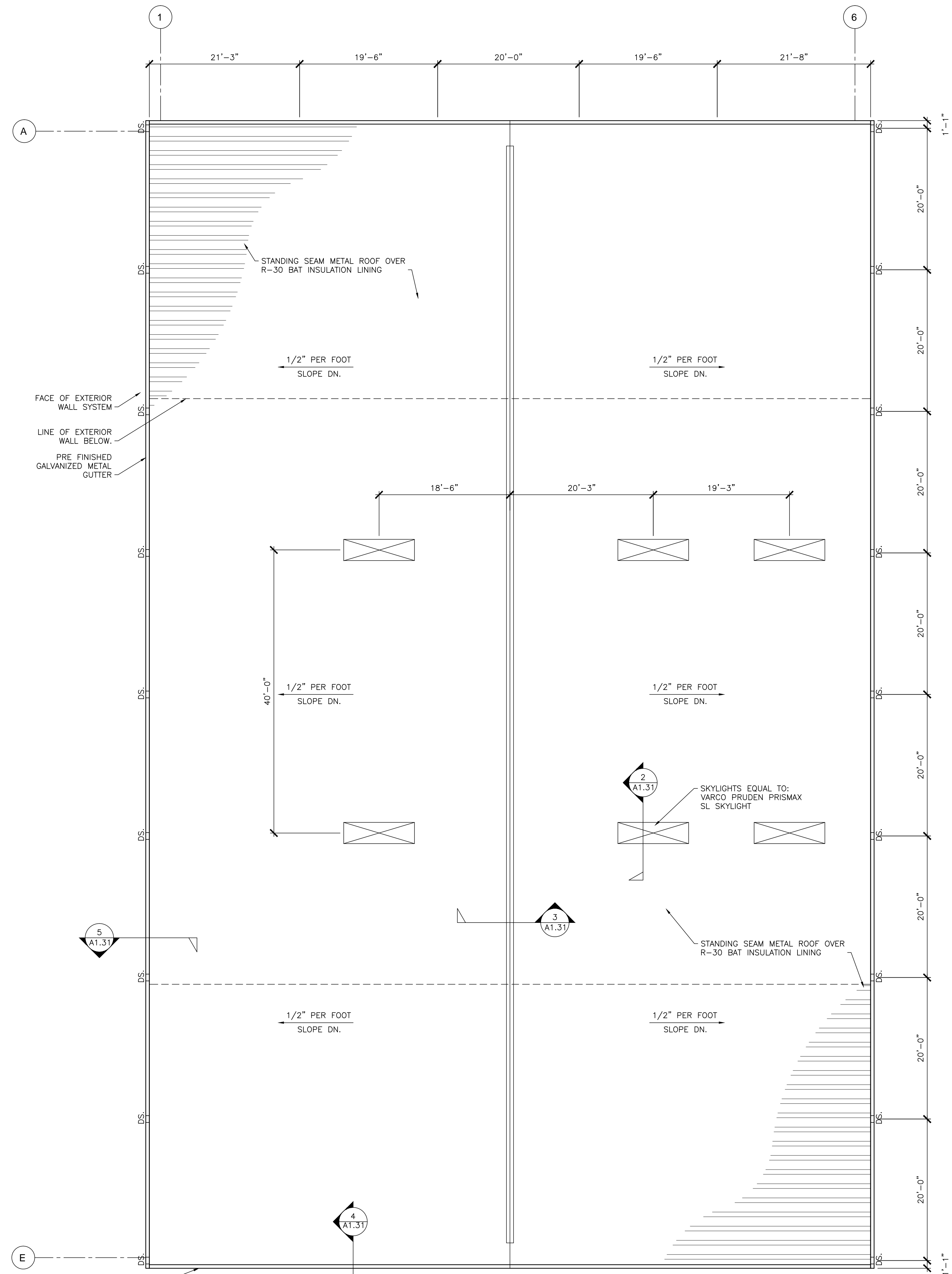
REVISION	DATE	DESCRIPTION



PROPOSED  
**HIDALGO COUNTY  
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 4011 S. VETERANS BLVD.  
 SAN JUAN, TEXAS 78589

PROJECT 1341501  
 DATE 07/01/2016  
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**A1.31**  
 ROOF PLAN



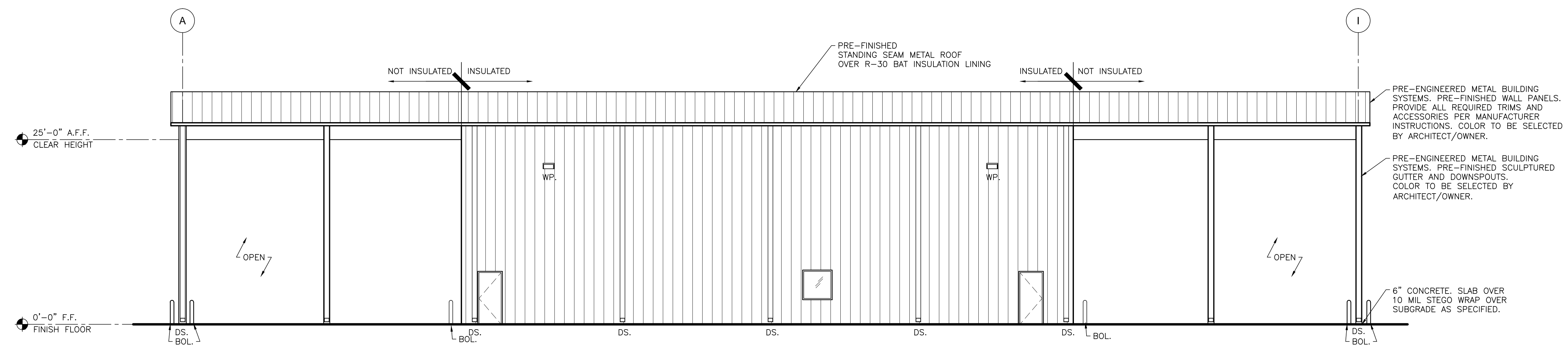
**1** ROOF PLAN  
 SCALE: 1/8"=1'-0"  
 NORTH

**SHEET NOTES**

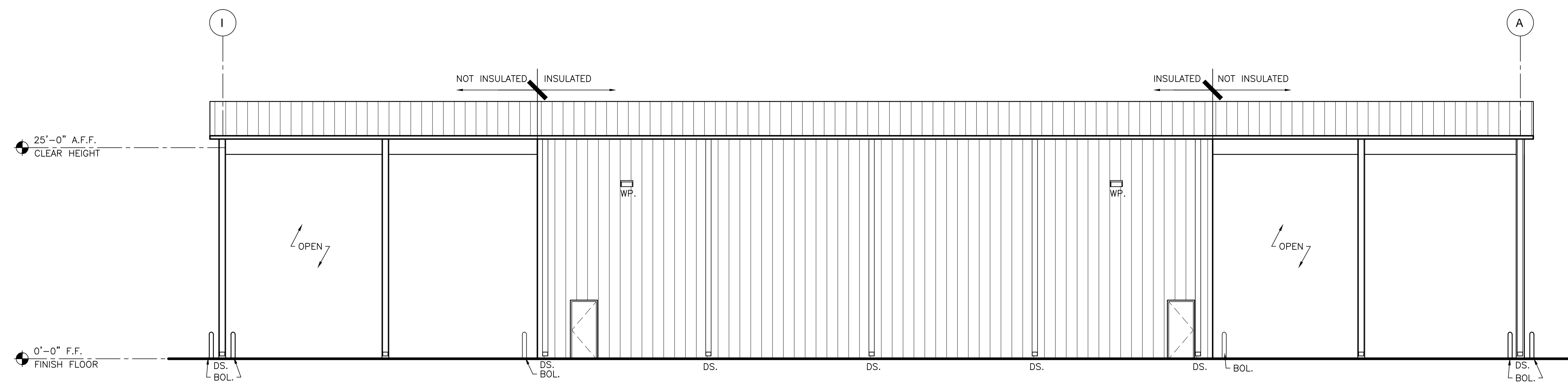
1. COLORS TO BE SELECTED BY OWNER/ARCHITECT.

**SHEET LEGEND**

DS. DOWNSPOUT  
 WP. WALL PACK  
 BOL. BOLLARD



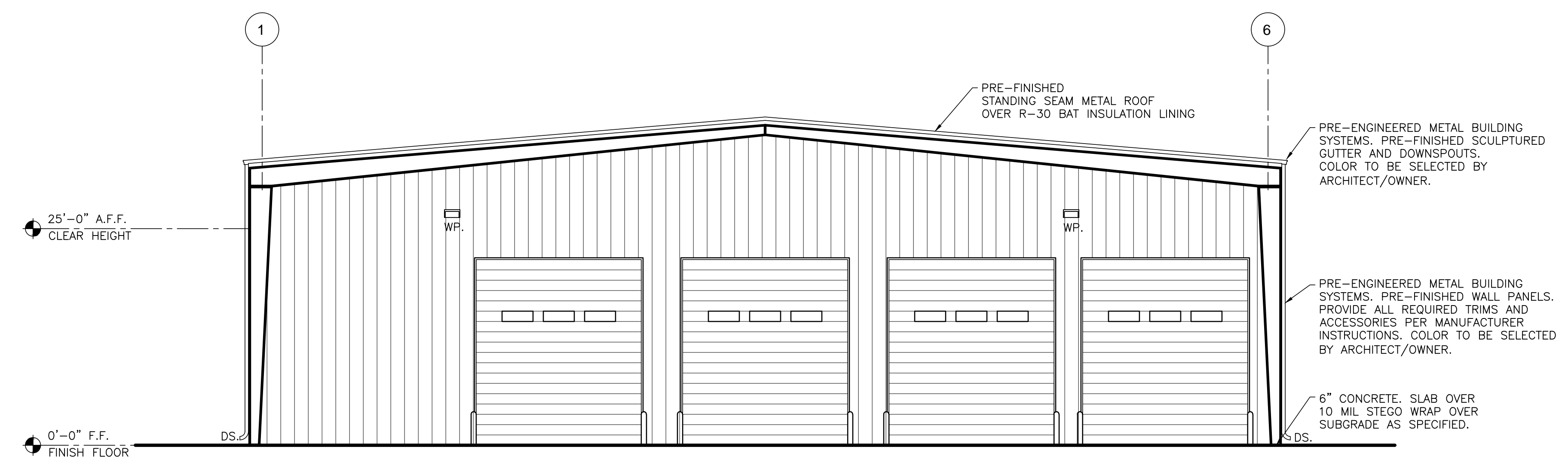
**4 WEST ELEVATION**  
 SCALE: 1/8"=1'-0"



**3 EAST ELEVATION**  
 SCALE: 1/8"=1'-0"



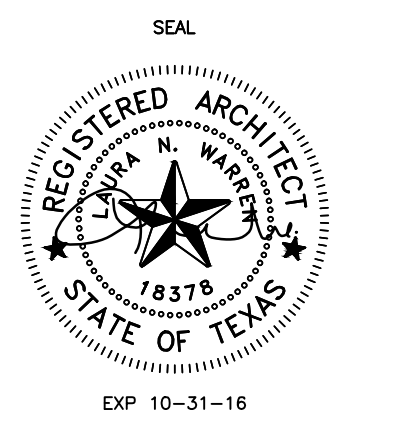
**2 NORTH ELEVATION**  
 SCALE: 1/8"=1'-0"



**1 SOUTH ELEVATION**  
 SCALE: 1/8"=1'-0"

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REVISION	DATE	DESCRIPTION

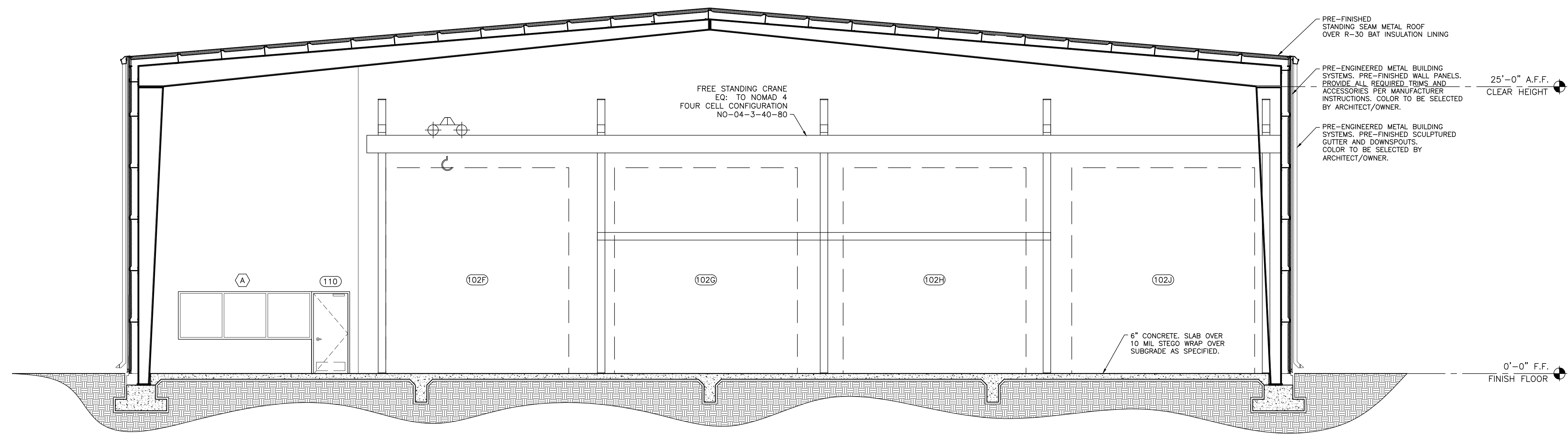


PROPOSED  
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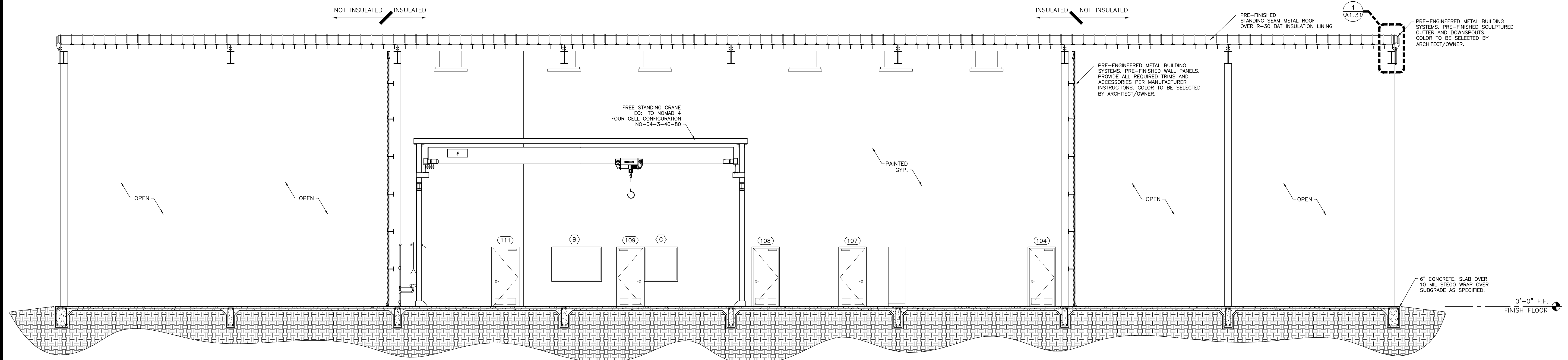
PROJECT 1341501  
 DATE 07/01/2016  
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**A2.11  
 ELEVATIONS**

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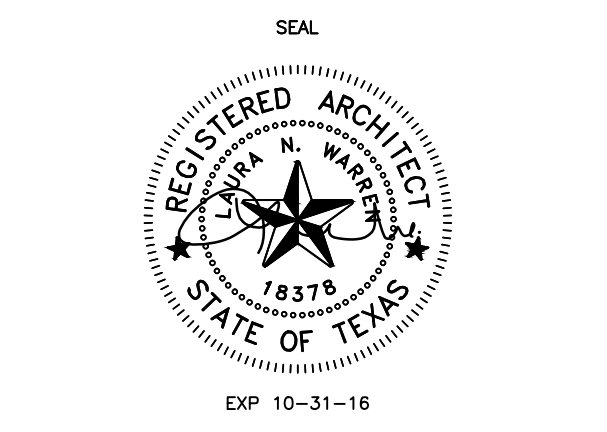


**2 BUILDING SECTION**  
 SCALE: 3/16"=1'-0"



**1 BUILDING SECTION**  
 SCALE: 3/16"=1'-0"

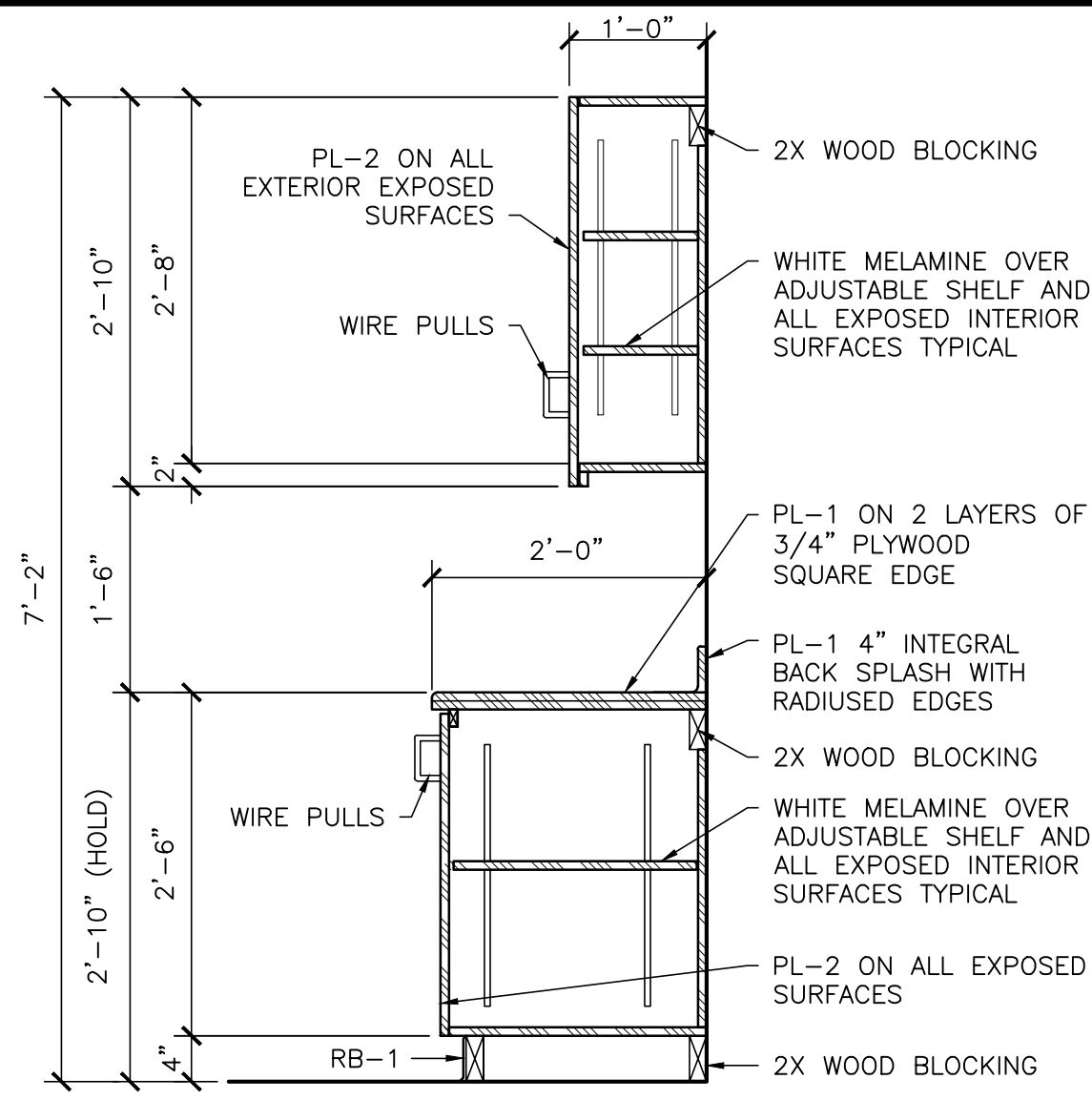
REVISION	DATE	DESCRIPTION



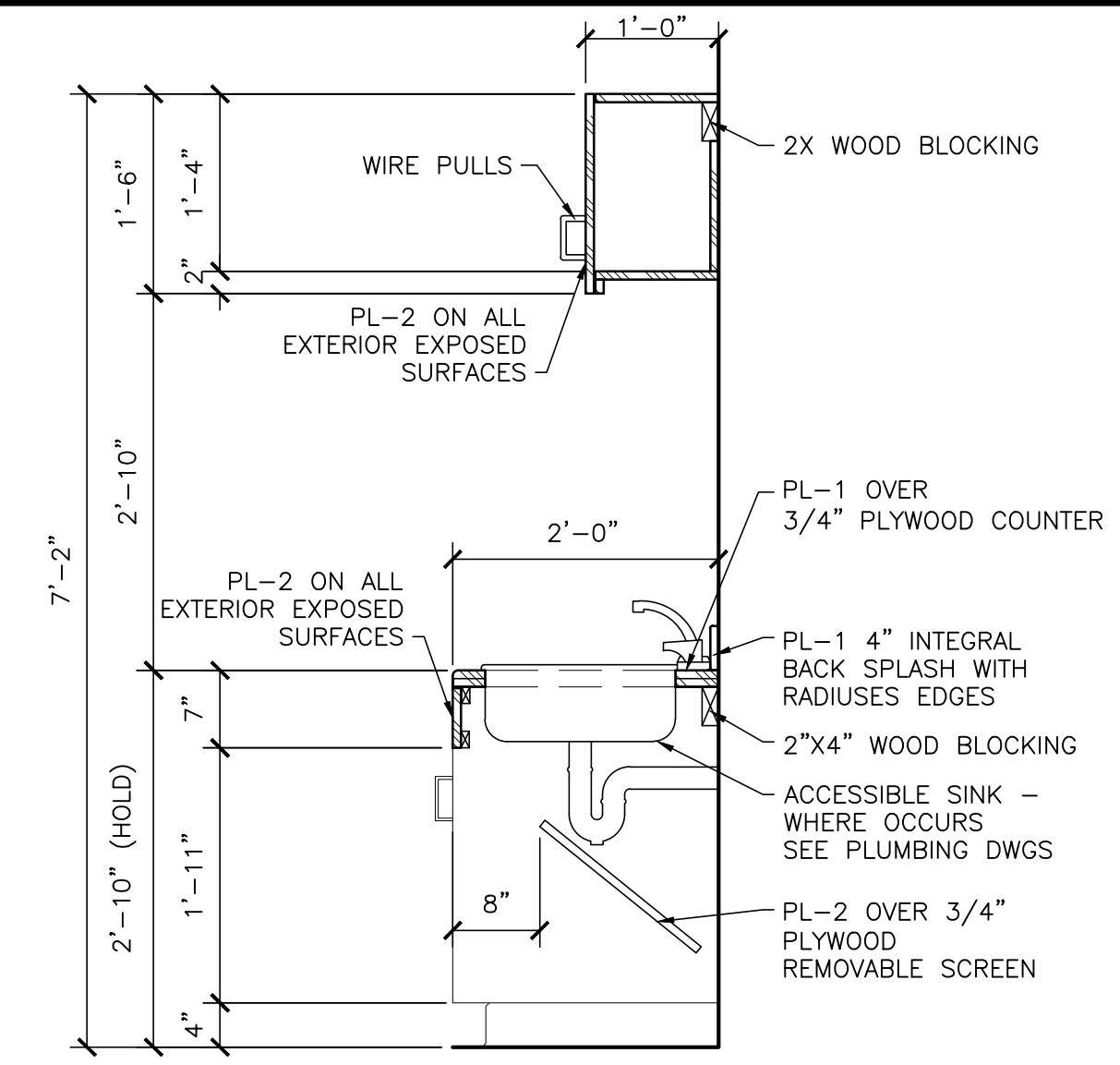
PROPOSED  
**HIDALGO COUNTY**  
**PCT. 2**  
**COUNTY WIDE**  
**SERVICE SHOP**  
 4011 S. VETERANS BLVD.  
 SAN JUAN, TEXAS 78589

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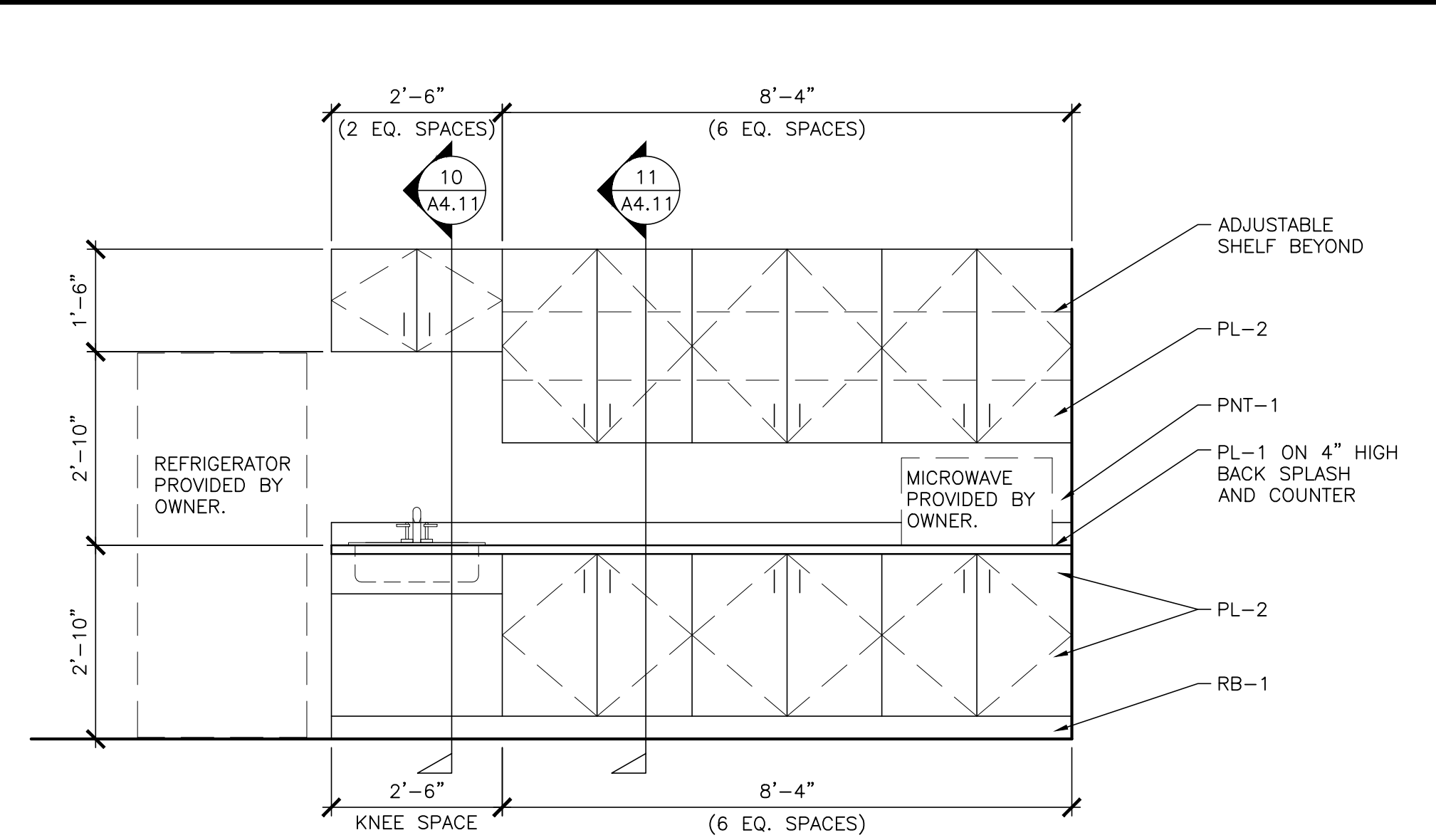
**A3.01**  
**BUILDING SECTIONS**



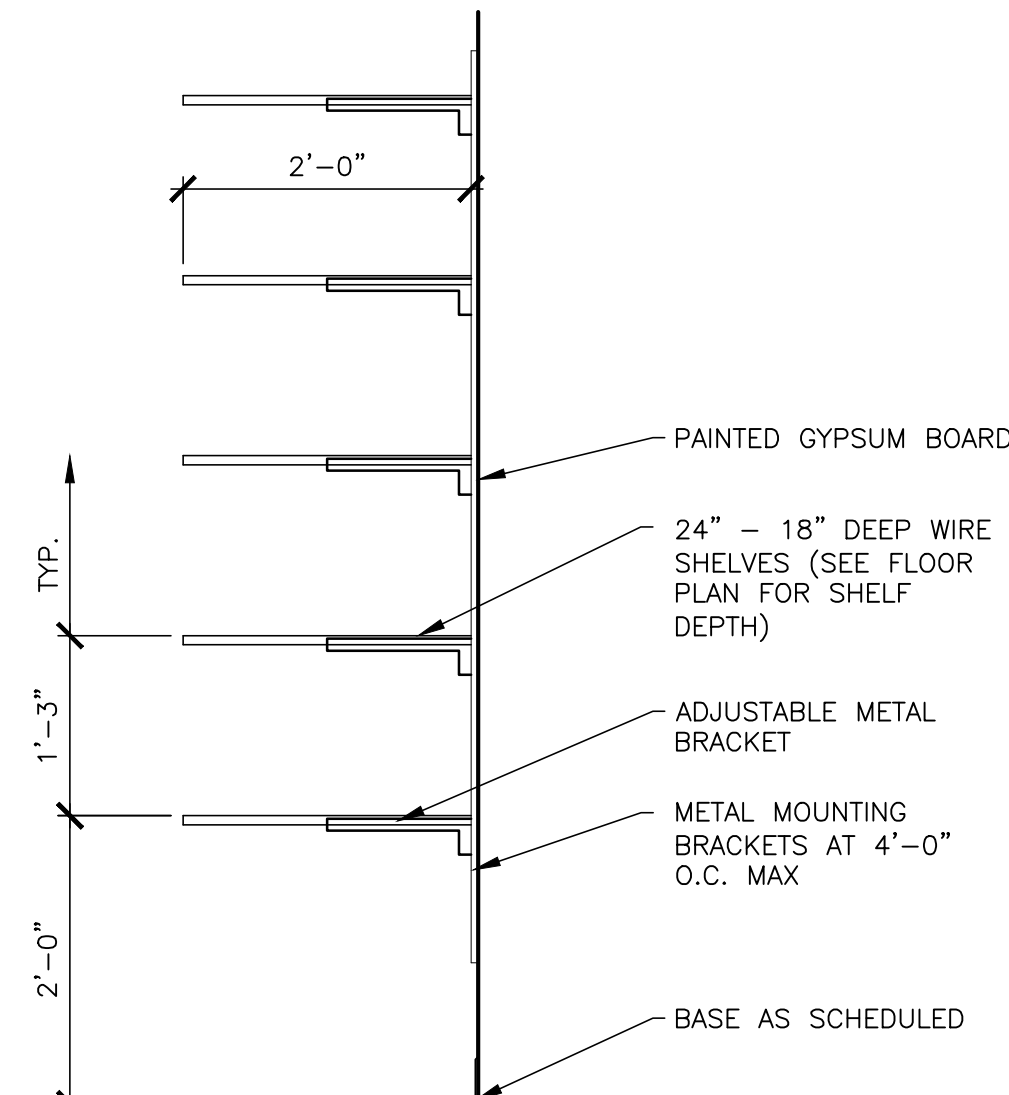
**11 MILLWORK SECTION**  
SCALE: 3/4" = 1'-0"  
MWRK\_SECT\_001



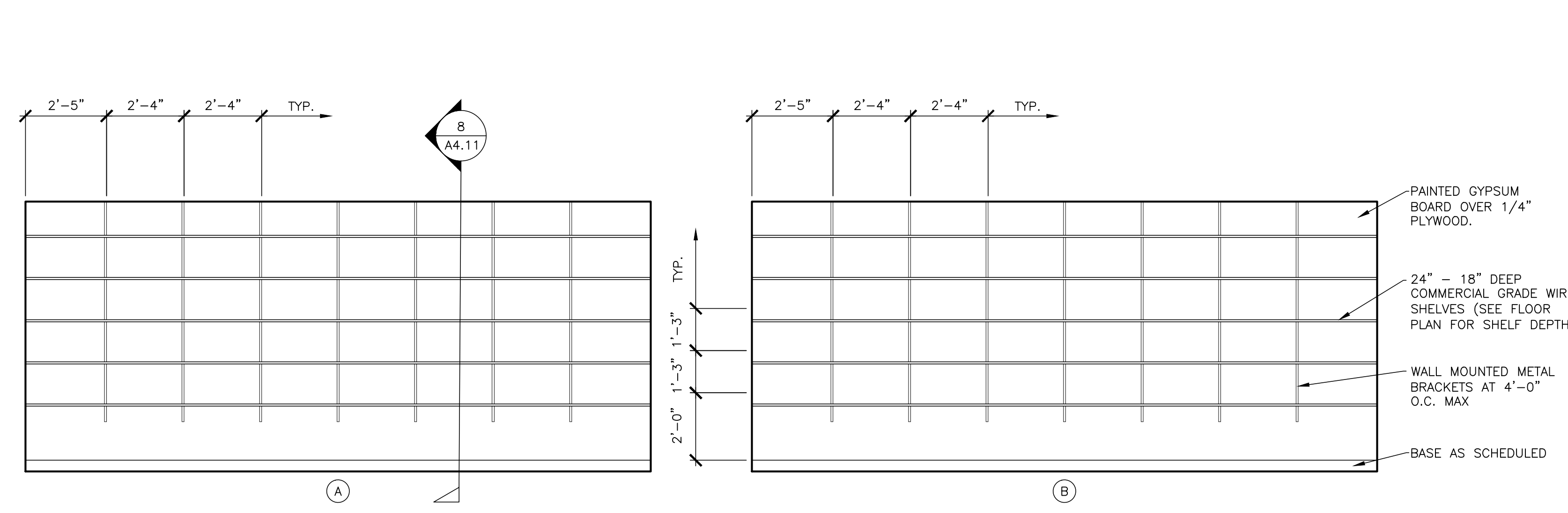
**10 MILLWORK SECTION**  
SCALE: 3/4" = 1'-0"  
MWRK\_SECT\_002



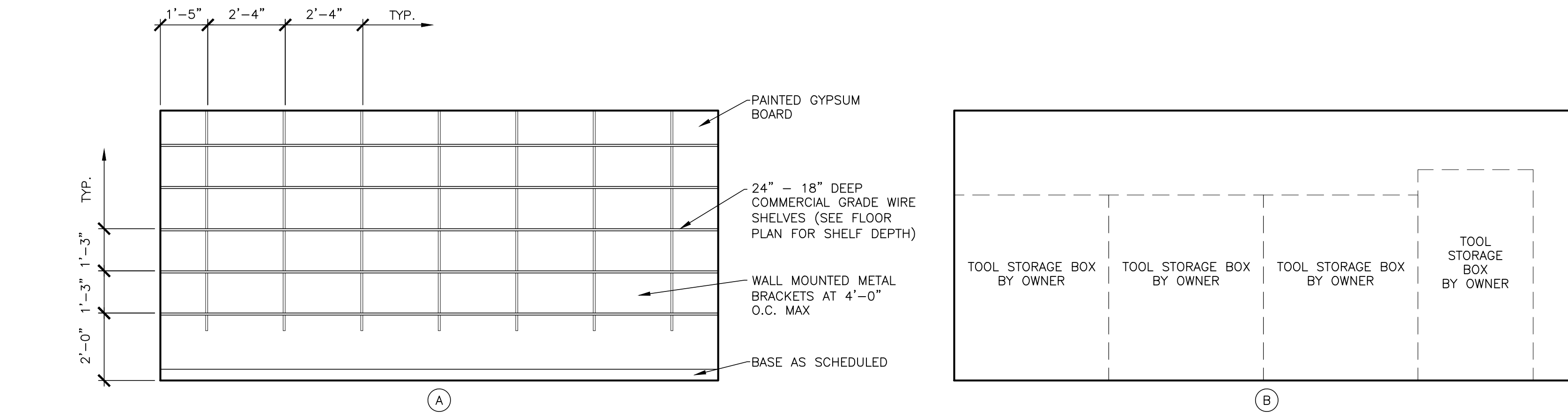
**9 BREAK ROOM 114**  
SCALE: 1/2" = 1'-0"  
MWRK\_DET\_001



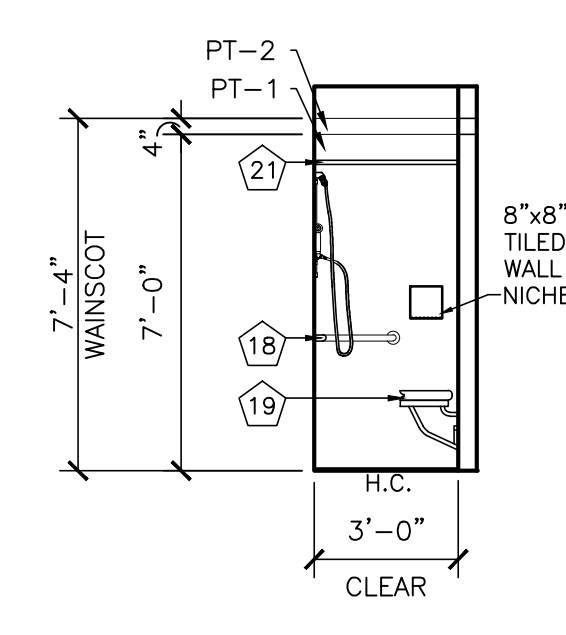
**8 STORAGE ROOM 108 WIRE SHELVES SECTION**  
SCALE: 3/4" = 1'-0"  
MWRK\_SECT\_003



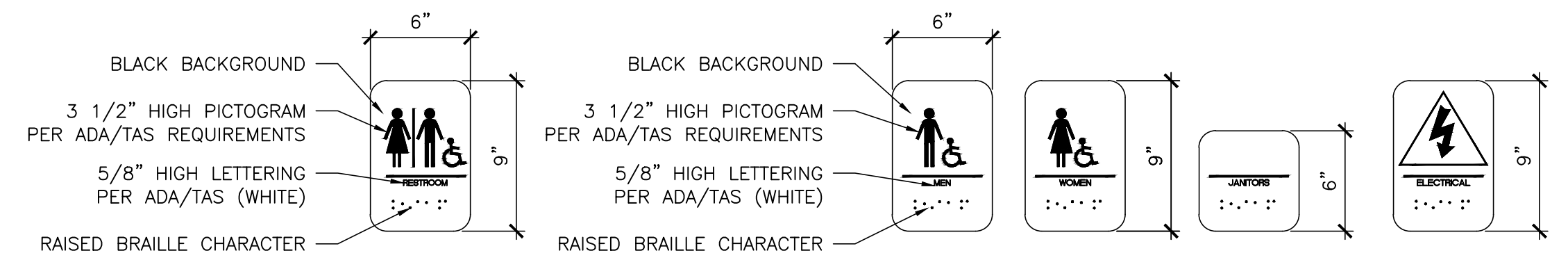
**7 STORAGE 108**  
SCALE: 3/8" = 1'-0"



**6 TOOLS 107**  
SCALE: 3/8" = 1'-0"

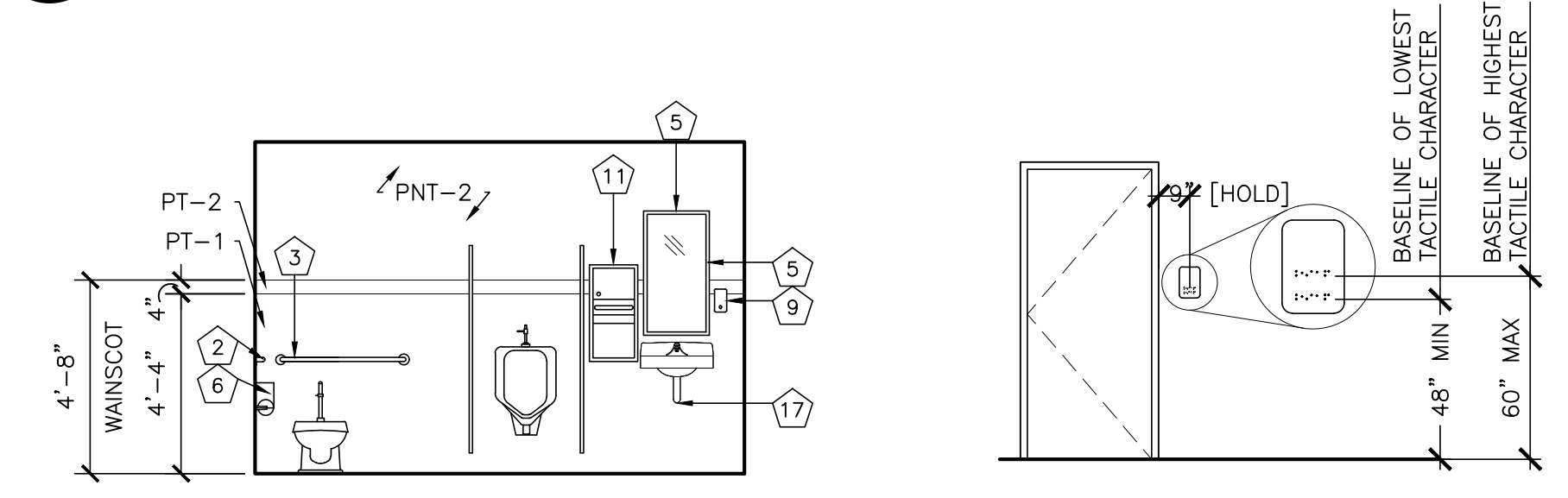


**5 SHOWER ELEVATION**  
SCALE: 1/4" = 1'-0"

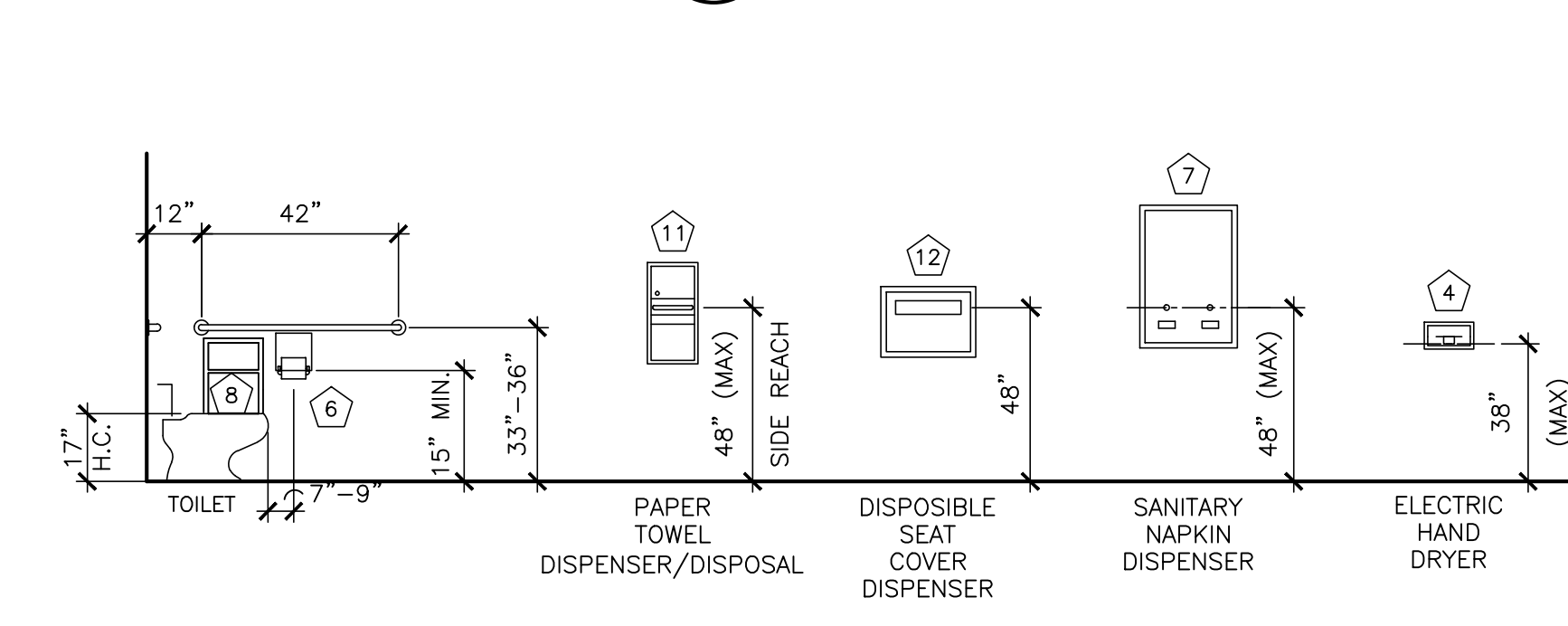


NOTES:  
1. GENERAL CONTRACTOR TO COMPLY WITH ALL APPLICABLE ADA/TAS REQUIREMENTS.

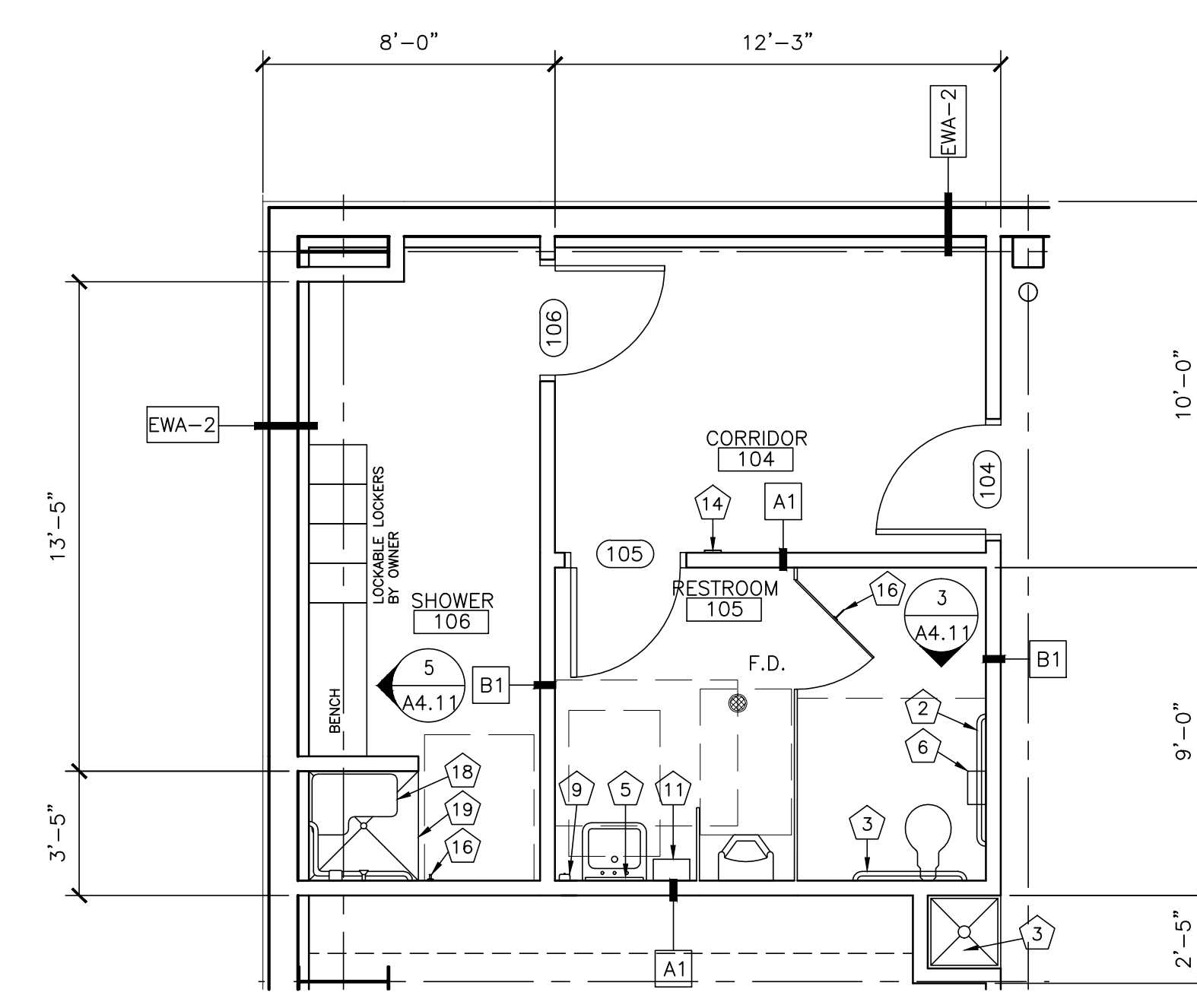
**4 TAS/ADA ACCESSIBLE SIGNAGE SCHEDULE**  
SCALE: 1 1/2" = 1'-0"



**3 RESTROOM ELEVATION**  
SCALE: 1/4" = 1'-0"



**2 TAS/ADA ACCESSIBLE MOUNTING HEIGHT**  
SCALE: 1/4" = 1'-0"



**1 PARTIAL FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

**SHEET NOTES**

1. GENERAL CONTRACTOR TO COMPLY WITH ALL TAS AND ADA APPLICABLE CODES AND REGULATIONS.
2. GENERAL CONTRACTOR TO COORDINATE WITH OWNER FOR ALL ACCESSORY PLACEMENTS AND TO INSTALL THEM PER TAS AND ADA ACCESSIBLE MOUNTING AND ACCESSORY SCHEDULE HEIGHTS.

**SHEET LEGEND**

⊙ F.D. FLOOR DRAIN

**ACCESSORY SCHEDULE**

KEY	ITEM	ADULT	
		STANDARD	HANDICAP (HC)
-	WATER CLOSET (WC)	15" TO TOP OF SEAT	17" TO TOP OF SEAT
-	URINAL (UR)	24" TO TOP OF RIM	17" TO TOP OF RIM
-	LAVATORY (LAV)	34" TO TOP	30" TO BOTTOM OF APRON
①	GRAB BAR (48")	-	33" MIN./36" MAX. TO CENTER OF BAR
②	GRAB BAR (42")	-	33" MIN./36" MAX. TO CENTER OF BAR
③	GRAB BAR (36")	-	33" MIN./36" MAX. TO CENTER OF BAR
④	ELECTRIC HAND DRYER	48" TO CONTROL	38" TO CONTROL
⑤	FRAMED WALL MOUNTED MIRROR	74" TO TOP	40" TO BOTTOM OF REFLECTIVE SURFACE
⑥	TISSUE DISPENSER	19" TO CONTROL DEVICE	19" TO CONTROL DEVICE
⑦	SANITARY NAPKIN DISPENSER	48" TO CONTROL DEVICE	48" TO CONTROL DEVICE
⑧	SANITARY NAPKIN DISPOSAL	19" TO CONTROL DEVICE	19" TO CONTROL DEVICE
⑨	WALL MOUNTED SOAP DISPENSER	48" TO CONTROL DEVICE	48" TO CONTROL DEVICE
⑩	COUNTER MOUNTED SOAP DISPENSER	AT COUNTER	AT COUNTER - 34" MAX.
⑪	PAPER TOWEL DISPENSER/DISPOSAL	48" TO CONTROL DEVICE	48" TO CONTROL DEVICE
⑫	DISPOSABLE SEAT COVER DISPENSER	48" TO CONTROL DEVICE	48" TO CONTROL DEVICE
⑬	MOP-HOOK	48" TO CONTROL DEVICE	48" TO CONTROL DEVICE
⑭	ACCESSIBLE SIGNAGE	60" TO CENTER OF SIGN	60" TO CENTER OF SIGN
⑮	DIAPER CHANGING STATION	34" TO TOP OF UNFOLDED SURFACE	-
⑯	CLOTHES/TOWEL HOOK	-	48" MAXIMUM TO CENTER
⑰	FOAM PIPE INSULATION WRAPPING	ALL EXPOSED LAVATORY PIPING	-
⑱	SHOWER COMPARTMENT	-	17" MIN 19" MAX TO TOP OF UNFOLDED SURFACE
⑲	SHOWER CURTAIN AND ROD	76 1/2" TO CENTER OF BAR FOR 72" CURTAIN	-

NOTE: NOT ALL ACCESSORIES MAY BE USED.

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REVISION	DATE	DESCRIPTION



PROPOSED  
**HIDALGO COUNTY PCT. 2 COUNTY WIDE SERVICE SHOP**  
4011 S. VETERANS BLVD.  
SAN JUAN, TEXAS 78589

PROJECT 1341501  
DATE 07/01/2016  
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**SHEET NOTES**

1. GENERAL CONTRACTOR TO FIELD VERIFY ALL OPENING DIMENSIONS PRIOR TO PURCHASE AND INSTALLATION.
2. REFER TO PROJECT MANUAL FOR DOOR HARDWARE.



1801 SOUTH SECOND ST. SUITE 330  
McALLEN, TX 78503  
956.994.1900  
twgarch.com

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**EXTERIOR SPECIALTIES**

<b>GL-1</b> MANUFACTURER: PPG IDEASCAPES LINE/BRAND: TINTED COLOR/FINISH: ATLANTICA	<b>GL-2</b> INTERIOR CLEAR GLAZING
--	---------------------------------------

**03 35 00 CONCRETE FINISHING**

<b>CONC-1</b> SEALED	<b>CONC-2</b> EXPOSED
-------------------------	--------------------------

**09 20 00 PLASTER & GYPSUM BOARD**

<b>GYP BD-1</b> STANDARD	<b>GYP BD-2</b> MOISTURE RESISTANT
-----------------------------	---------------------------------------

**09 30 00 TILING**

<b>PT-1</b> MANUFACTURER: DALTILE LINE/BRAND: SUEDE GRAY COLOR: 0182 FINISH: SEMI-GLOSS SIZE: 4"X4"	<b>PT-2</b> MANUFACTURER: DALTILE LINE/BRAND: MUSTARD COLOR: 0012 FINISH: SEMI-GLOSS SIZE: 4"X4"
--	---

**09 50 00 CEILINGS**

<b>ACC-1</b> REFER SPECIFICATIONS SECTION 09 51 13	<b>ACT-1</b> REFER SPECIFICATIONS SECTION 09 51 13
---	---

**09 60 00 FLOORING**

<b>RB-1</b> MANUFACTURER: JOHNSONITE LINE/BRAND: RUBBER BASE COLOR: 292 EVENING SHOW FINISH: SATIN SIZE: 4" TRADITIONAL COVE BASE
--

**09 90 00 PAINTING AND COATING**

<b>PNT-1 (FIELD)</b> MANUFACTURER: SHERWIN WILLIAMS LINE/BRAND: SW 9136 LULLABY COLOR: SATIN FINISH: SATIN TEXTURE: EGG-SHELL	<b>PNT-2 (ACCENT)</b> MANUFACTURER: SHERWIN WILLIAMS LINE/BRAND: SW 6229 TEMPLE STAR COLOR: SATIN FINISH: SATIN TEXTURE: EGG-SHELL
--	---

<b>PNT-3</b> MANUFACTURER: SHERWIN WILLIAMS LINE/BRAND: SW 6252 ICE CUBE COLOR: SATIN FINISH: SATIN TEXTURE: EGG-SHELL
---

**10 20 00 INTERIOR SPECIALTIES**

<b>FEC-1</b> 5 LBS. LOADED STREAM FIRE EXTINGUISHER WITH CABINET
---

**12 30 00 CASEWORK**

<b>PL-1 (HORIZONTAL)</b> MANUFACTURER: FORMICA LINE/BRAND: LAMINATE COLOR: 6220-58 FINISH: SMOKE QUARSTONE MATTE	<b>PL-2 (VERTICAL)</b> MANUFACTURER: FORMICA LINE/BRAND: LAMINATE COLOR: 6306-58 FINISH: WENGE STRAND MATTE
--	---

**ROOM FINISH SCHEDULE**

ROOM NO.	ROOM NAME	BASE	FLOOR	WALL				CEILING	NOTES
				NORTH	EAST	SOUTH	WEST		
101	COVERED SERVICE COURT	-	CONC-2	-	-	-	-	-	
102	SHOP	RB-1	CONC-1	-	-	-	GYP.BD-1, PNT-2	EXPOSED	
103	COVERED SERVICE COURT	-	CONC-2	-	-	-	-	-	
104	CORRIDOR	RB-1	CONC-1	GYP.BD-1, PNT-1	GYP.BD-1, PNT-1	GYP.BD-1, PNT-1	GYP.BD-1, PNT-1	GYP.BD-1, PNT-3	
105	RESTROOM	-	PT-1	GYP.BD-2, PNT-1, PT-1, PT-2	GYP.BD-2, PNT-1, PT-1, PT-2	GYP.BD-2, PNT-2, PT-1, PT-2	GYP.BD-2, PNT-1, PT-1, PT-2	GYP.BD-2, PNT-3	
106	SHOWER	-	PT-1	GYP.BD-2, PNT-1, PT-1, PT-2	GYP.BD-2, PNT-1, PT-1, PT-2	GYP.BD-2, PNT-1, PT-1, PT-2	GYP.BD-2, PNT-2, PT-1, PT-2	GYP.BD-2, PNT-3	
107	TOOLS	RB-1	CONC-1	GYP.BD-1, PNT-1	GYP.BD-1, PNT-1	GYP.BD-1, PNT-1	GYP.BD-1, PNT-1	ACG-1, ACT-1	
108	STORAGE	RB-1	CONC-1	GYP.BD-1, PNT-1	GYP.BD-1, PNT-1	GYP.BD-1, PNT-1	GYP.BD-1, PNT-1	ACG-1, ACT-1	
109	BREAK ROOM	RB-1	CONC-1	GYP.BD-1, PNT-2	GYP.BD-1, PNT-1	GYP.BD-1, PNT-1	GYP.BD-1, PNT-1	ACG-1, ACT-1	
110	OFFICE	RB-1	CONC-1	GYP.BD-1, PNT-2	GYP.BD-1, PNT-1	GYP.BD-1, PNT-1	GYP.BD-1, PNT-1	ACG-1, ACT-1	
111	TANK AREA	RB-1	CONC-1	GYP.BD-2, PNT-1	-	-	-	EXPOSED	

**GENERAL NOTES**

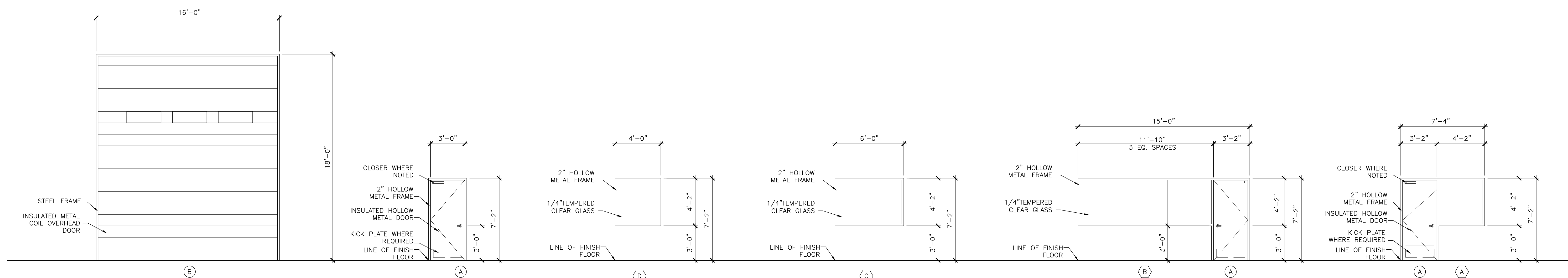
1. ALL CEILING HEIGHTS TO BE 9'-0" A.F.F. UNLESS OTHERWISE NOTED.
2. ALL WALL FINISH SURFACES TO HAVE SMOOTH FINISH - NO TEXTURE.
3. ALL WALLS TO RECEIVE ONE PRIMER COAT AND TWO FINISH COATS OF NEW PAINT FINISH. REFER SPECIFICATIONS.
4. WOMENS RR & MENS RR ALL WALLS TO BE MOISTURE RESISTANT GYPSUM BOARD. REFER SCHEDULE FOR APPLIED FINISHES.
5. REFER TO SHEET A1.41 FOR FLOOR PATTERN PLAN.
6. REFER TO SHEET A1.42 FOR WALL ACCENT PLAN.
7. REFER TO SHEET A4.11 FOR RESTROOM WALL TILE PATTERNS.
8. ALL PAINTED GYP. BD. CEILING IS TO RECEIVE PNT-3 UNLESS OTHER WISE NOTED.
9. ALL GYP. BD. WALLS TO RECEIVE RB-1 UNLESS OTHER WISE NOTED.

**DOOR SCHEDULE**

No.	LOCATION TO	SWING	DOOR			ELEV.	FRAME TYPE		REMARKS
			FIRE RATING	TYPE	FINISH		SIZE	TYPE	
102A	COVERED SERVICE COURT 101 TO SHOP 102	OVERHEAD	-	INSULATED METAL COIL DOOR	PNT-X	16'-0" x 18'-0"	B	STEEL CLR	PAINT TO BE SELECTED BY ARCHITECT/OWNER.
102B	COVERED SERVICE COURT 101 TO SHOP 102	OVERHEAD	-	INSULATED METAL COIL DOOR	PNT-X	16'-0" x 18'-0"	B	STEEL CLR	PAINT TO BE SELECTED BY ARCHITECT/OWNER.
102C	COVERED SERVICE COURT 101 TO SHOP 102	OVERHEAD	-	INSULATED METAL COIL DOOR	PNT-X	16'-0" x 18'-0"	B	STEEL CLR	PAINT TO BE SELECTED BY ARCHITECT/OWNER.
102D	COVERED SERVICE COURT 101 TO SHOP 102	OVERHEAD	-	INSULATED METAL COIL DOOR	PNT-X	16'-0" x 18'-0"	B	STEEL CLR	PAINT TO BE SELECTED BY ARCHITECT/OWNER.
102E	EXTERIOR TO SHOP 102	LHR	-	INSULATED H.MTL.	PNT-X	3'-0" x 7'-0"	A	H.MTL. PNT-X	PAINT TO BE SELECTED BY ARCHITECT/OWNER.
102F	EXTERIOR TO SHOP 102	OVERHEAD	-	INSULATED METAL COIL DOOR	PNT-X	16'-0" x 18'-0"	B	STEEL CLR	PAINT TO BE SELECTED BY ARCHITECT/OWNER.
102G	EXTERIOR TO SHOP 102	OVERHEAD	-	INSULATED METAL COIL DOOR	PNT-X	16'-0" x 18'-0"	B	STEEL CLR	PAINT TO BE SELECTED BY ARCHITECT/OWNER.
102H	EXTERIOR TO SHOP 102	OVERHEAD	-	INSULATED METAL COIL DOOR	PNT-X	16'-0" x 18'-0"	B	STEEL CLR	PAINT TO BE SELECTED BY ARCHITECT/OWNER.
102J	EXTERIOR TO SHOP 102	OVERHEAD	-	INSULATED METAL COIL DOOR	PNT-X	16'-0" x 18'-0"	B	STEEL CLR	PAINT TO BE SELECTED BY ARCHITECT/OWNER.
102K	EXTERIOR TO SHOP 102	RHR	-	INSULATED H.MTL.	PNT-X	3'-0" x 7'-0"	A	H.MTL. PNT-X	PAINT TO BE SELECTED BY ARCHITECT/OWNER.
104	SHOP 102 TO CORRIDOR 104	LH	-	INSULATED H.MTL.	PNT-2	3'-0" x 7'-0"	A	H.MTL. PNT-2	
105	CORRIDOR 104 TO RR 105	RH	-	INSULATED H.MTL.	PNT-2	3'-0" x 7'-0"	A	H.MTL. PNT-2	
106	CORRIDOR 104 TO SHOWER 106	RHR	-	INSULATED H.MTL.	PNT-2	3'-0" x 7'-0"	A	H.MTL. PNT-2	
107	SHOP 102 TO TOOLS 107	RH	-	INSULATED H.MTL.	PNT-2	3'-0" x 7'-0"	A	H.MTL. PNT-2	
108	SHOP 102 TO STORAGE 108	RH	-	INSULATED H.MTL.	PNT-2	3'-0" x 7'-0"	A	H.MTL. PNT-2	
109	SHOP 102 TO BREAK ROOM 109	LH	-	INSULATED H.MTL.	PNT-2	3'-0" x 7'-0"	A	H.MTL. PNT-2	
110	SHOP 102 TO OFFICE 110	RH	-	INSULATED H.MTL.	PNT-2	3'-0" x 7'-0"	A	H.MTL. PNT-2	
111	EXTERIOR TO TANK AREA 111	LHR	-	INSULATED H.MTL.	PNT-X	3'-0" x 7'-0"	A	H.MTL. PNT-X	PAINT TO BE SELECTED BY ARCHITECT/OWNER.

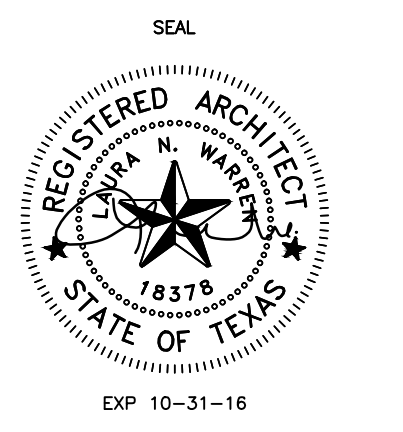
**WINDOW SCHEDULE**

No.	TYPE	FRAME TYPE	GLAZING	SIZE	ELEV.	LABEL	REMARKS
A	FIXED	HOLLOW METAL FRAME-PNT-2	1/4" TEMPERED CLEAR GLASS	4'-2" X 4'-2"	A		
B	FIXED	HOLLOW METAL FRAME-PNT-2	1/4" TEMPERED CLEAR GLASS	11'-10" X 4'-2"	B		
C	FIXED	HOLLOW METAL FRAME-PNT-2	1/4" TEMPERED CLEAR GLASS	6'-0" X 4'-2"	C		
D	FIXED	HOLLOW METAL FRAME-PNT-X	1" INSULATED LOW-E TINTED TEMPERED GLASS	4'-0" X 4'-2"	D		PAINT TO BE SELECTED BY ARCHITECT/OWNER.



**WINDOW & DOOR ASSEMBLIES**  
SCALE: 1/4"=1'-0"

APPROVED BY	DESCRIPTION
DATE	
REVISION	



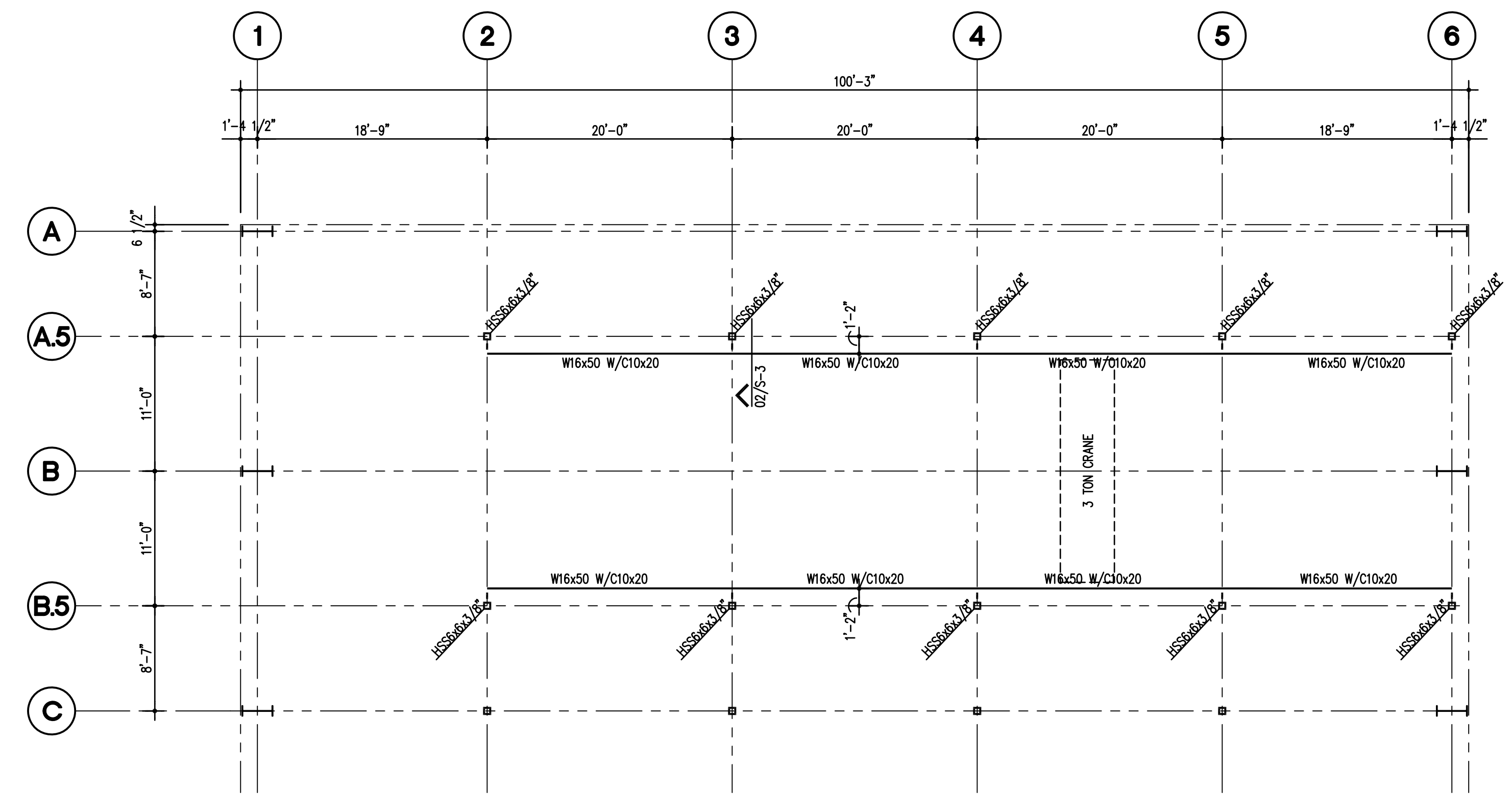
PROPOSED  
**HIDALGO COUNTY PCT. 2 COUNTY WIDE SERVICE SHOP**

4011 S. VETERANS BLVD.  
SAN JUAN, TEXAS 78589

PROJECT DATE REVISION: 1341501 07/01/2016

**A6.11**  
WINDOW, DOOR AND ROOM FINISH SCHEDULE

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**01 CRANE FRAMING PLAN**  
 SCALE: 1/8" = 1'-0"

**GENERAL NOTES**

- FOUNDATION DESIGN AND SUBSURFACE INFORMATION IS BASED ON THE SOIL INVESTIGATION PREPARED BY MILLENIUM ENGINEERS GROUP, INC. REPORT NO. 01-13-29060, DATED OCTOBER 2, 2013. FOUNDATION SHALL CONSIST OF A STIFFENED SLAB AND BEAM SYSTEM. CONTINUOUS FOOTINGS ARE DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 1,800 PSF. SPREAD FOOTINGS ARE DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 2,200 PSF. FOOTING SHALL BE FOUNDED A MINIMUM OF 24" BELOW GRADE AND BE INSPECTED BY THE GEOTECHNICAL ENGINEER.
- THE FLOOR SLAB SHALL BE PLACED OVER A TEN (10) MIL STEGO WRAP VAPOR BARRIER OVER A MOISTURE CONDITIONED SUBGRADE. SUBGRADE PREPARATION AND SELECT FILL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
- THE STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE PROVISIONS OF THE 2012 INTERNATIONAL BUILDING CODE.
- DESIGN LOADS ARE AS LISTED BELOW:

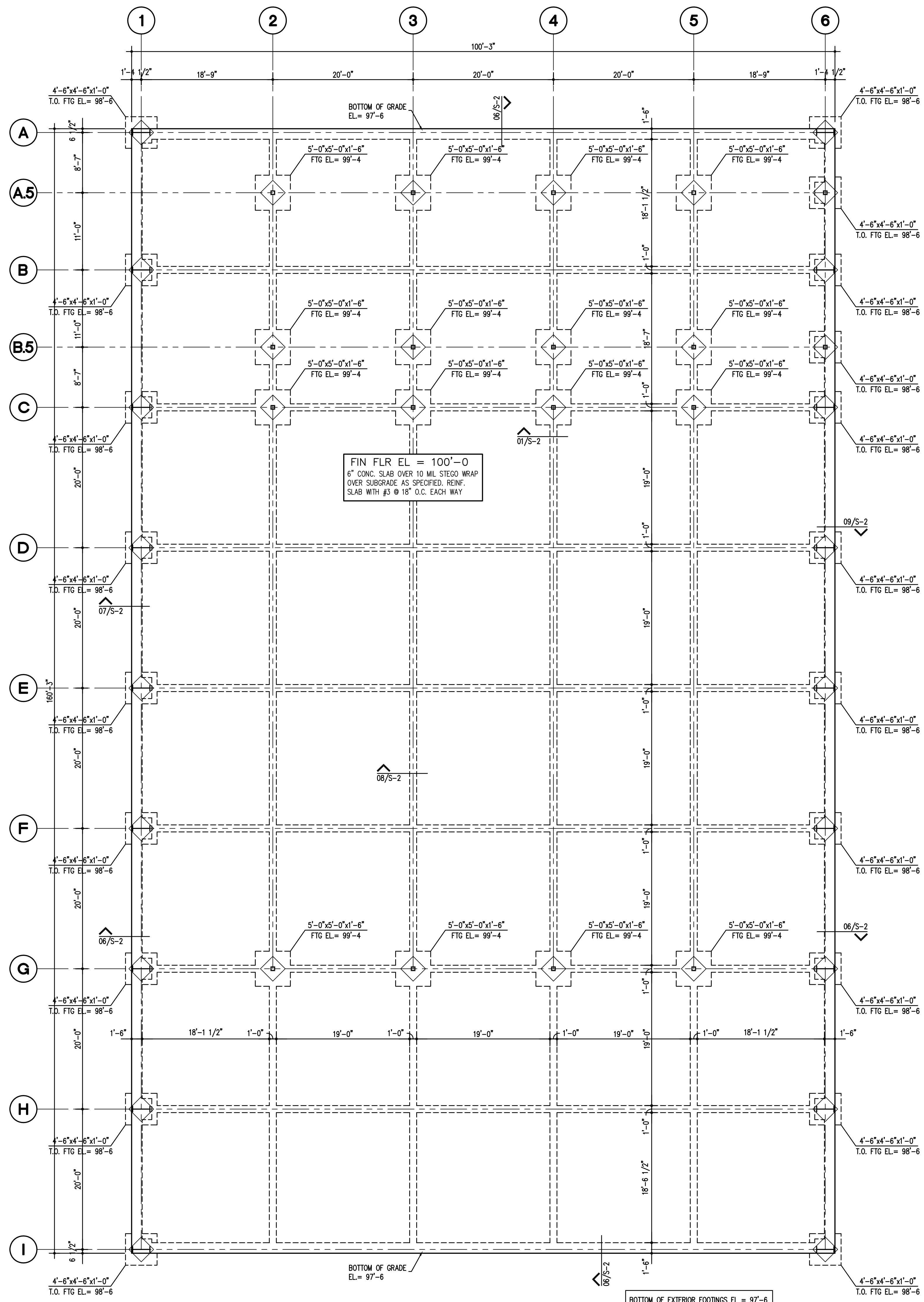
ROOF	20 PSF
WIND	80 MPH WIND SPEED EXPOSURE B
WIND UPLIFT	16 PSF
SEISMIC PER 2012	SITE CLASS C IMPORTANCE FACTOR 1.0 S <sub>MS</sub> =0.074 S <sub>FT</sub> =0.056 SEISMIC DESIGN CATEGORY - A

COMPRESSIVE STRENGTH @ 28 DAYS	TYPE AGGREGATE + AIR ENTRAINMENT	USAGE
3000 PSI	HARD ROCK	ALL CONCRETE

- AN AIR ENTRAINING AGENT SHALL BE ADDED TO THE NOTED CONCRETE TO PROVIDE 3 TO 5 PERCENT AIR BY VOLUME.
- ALL CONCRETE WORK TO BE IN ACCORDANCE WITH ACI 318 AND ACI 301.
  - CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS NOTED BELOW. REFERENCE ACI 318 SECTION 7.7 FOR CONDITIONS NOTED.
- |                                  |  |
|----------------------------------|--|
| PILASTERS                        | 3" BACKFILLED SIDES<br>2" NON-BACKFILLED SIDES |
| ALL CONCRETE PLACED AGAINST SOIL | 3"   |
| BEAMS AND COLUMNS                | 1 1/2" (REF. DETAILS)                          |
| SLABS ON GRADE                   | 1" TOP   |
| WALLS                            | 2" BACKFILLED SIDES<br>1" NON-BACKFILLED SIDES |
- HORIZONTAL OR NEARLY HORIZONTAL CONSTRUCTION JOINTS SHALL BE PREPARED BY ROUGHENING THE SURFACE IN AN APPROVED MANNER SO THAT THE AGGREGATE IS EXPOSED UNIFORMLY, LEAVING NO LATANCE, LOOSEN PARTICLES OR DAMAGED CONCRETE.

**STEEL NOTES**

- ALL REINFORCING SHALL BE NEW BILLET STEEL, ASTM A615 - GRADE 60. REINFORCING SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE ACI 315 AND ACI 318.
- ALL STRUCTURAL STEEL DETAILS AND CONNECTIONS SHALL CONFORM TO THE STANDARDS OF THE AISC.
- STEEL MEMBERS SHALL NOT BE SPLICED EXCEPT WHERE SHOWN ON THE DRAWINGS UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
- ALL ANCHOR BOLTS SHALL CONFORM TO ASTM A307, UNLESS NOTED OTHERWISE.
- THE PRE-MANUFACTURED BUILDING FRAME SHALL BE DESIGNED IN ACCORDANCE WITH THE 2012 INTERNATIONAL BUILDING CODE FOR ALL DEAD, LIVE, WIND AND SEISMIC BUILDING FRAMES SHALL BE DESIGNED FOR A MAXIMUM LATERAL DEFLECTION OF 1/120. SHOP DRAWINGS SHALL BE PROVIDED FOR THE PRE-MANUFACTURED BUILDING DETAILING ALL ANCHOR CONNECTIONS AND STRUCTURAL MEMBERS. THE BUILDING SHALL BE DESIGNED FOR A COLLATERAL LOAD OF 3.0 PSF IN ADDITION TO ALL DEAD AND LIVE LOADS. SHOP DRAWINGS SHALL BE SEALED BY AN ENGINEER REGISTERED IN THE STATE OF TEXAS.



**01 FOUNDATION PLAN**  
 SCALE: 1/8" = 1'-0"

**PLAN NOTES**

- REFERENCE SHEETS S-2 FOR TYPICAL DETAILS.
- LOCATE FOOTINGS AT CENTERLINE OF COLUMNS OR GRADE BEAMS.
- FINISH FLOOR 100'-0" = REF. CIVIL

McHALE ENGINEERING INC.  
 FIRM NUMBER F-2854  
 GARY B. McHALE  
 45753  
 12/15/2016  
 1/1/16

**McHale Engineering Inc.**  
 2000 AVENUE G, SUITE 800  
 PLANO, TEXAS 75074  
 PHONE: 972-423-9908  
 EMAIL: mchaleeng@verizon.net

PROPOSED  
**HIDALGO COUNTY  
 PCT. 2  
 COUNTY WIDE  
 SERVICE SHOP**  
 4011 S. VETERANS BLVD.  
 SAN JUAN, TEXAS 78589

PROJECT DATE REVISION  
 1341501  
 07/01/2016



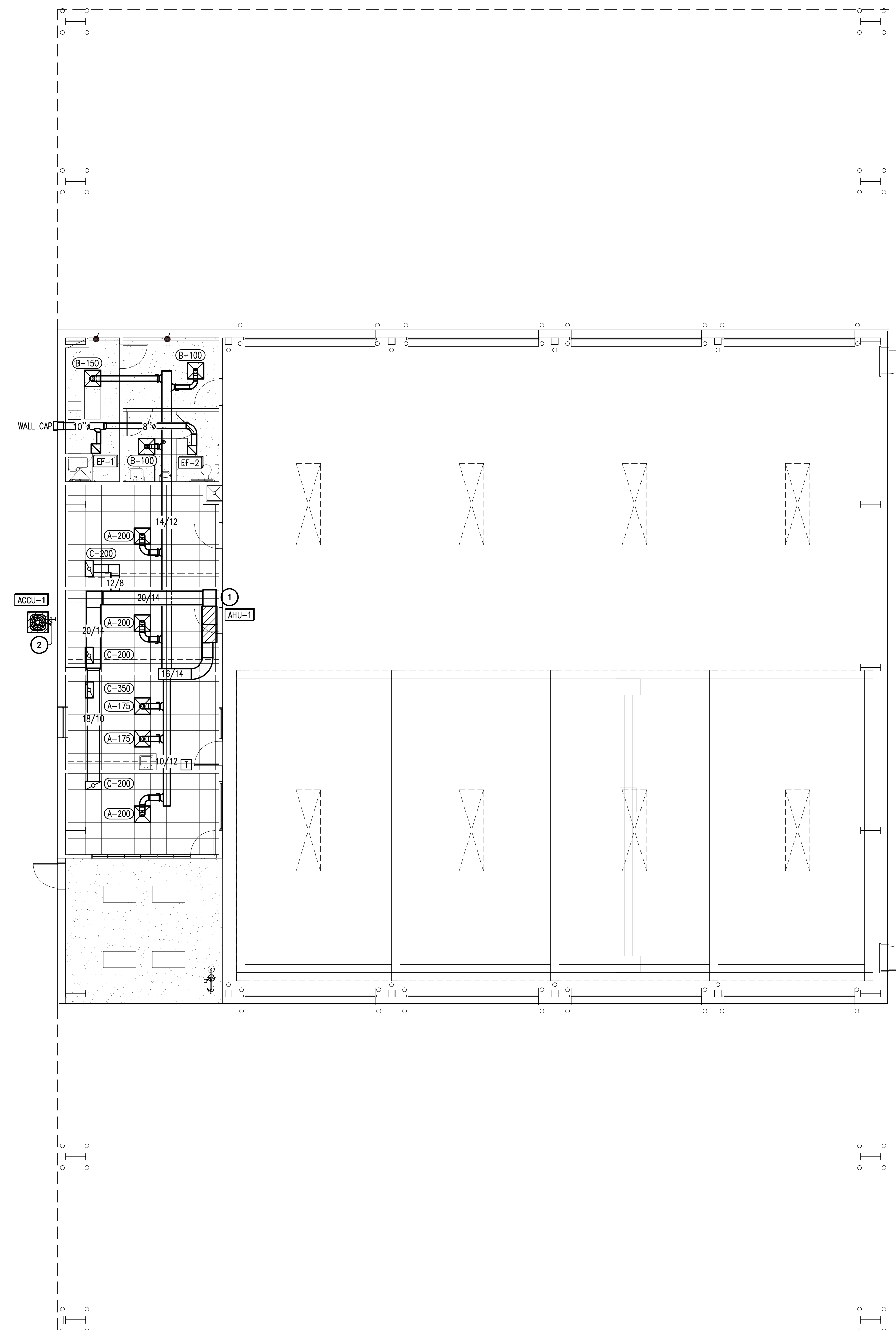


**GENERAL NOTES:**

- A. REFER TO SCHEDULE SHEET FOR ADDITIONAL GENERAL MECHANICAL NOTES.
- B. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRANSITIONS FROM MECHANICAL EQUIPMENT TO DUCTS. VERIFY EQUIPMENT OUTLET/INLET SIZE WITH SCHEDULE.
- C. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO MAINTAIN ACCESS CLEARANCES FOR ALL MECHANICAL EQUIPMENT.
- D. CONCEALED DUCTS SHALL BE SHEETMETAL SINGLE WALL TYPE WITH EXTERNAL WRAP INSULATION UNLESS OTHERWISE NOTED.
- E. ALL EXPOSED (VISIBLE) DUCT SHALL BE SHEETMETAL SINGLE WALL INTERNALLY LINED TYPE AND SURFACED FOR PAINTING. COLOR SELECTION BY ARCHITECT. (NO EXPOSED FLEX DUCT SHALL BE ALLOWED).
- F. CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL MECHANICAL EQUIPMENT LOCATED ABOVE INACCESSIBLE CEILING.
- G. CONTRACTOR SHALL PROVIDE STRUCTURAL SUPPORTS FOR ALL MECHANICAL EQUIPMENT SUSPENDED FROM STRUCTURE.
- H. CONTRACTOR SHALL COORDINATE ALL ROOF PENETRATIONS AND ROOFING WORK WITH ROOFING CONTRACTOR AS REQUIRED TO MAINTAIN ROOF WARRANTY.
- I. LOCATE EXHAUST HOODS/FANS MINIMUM 10- FEET FROM ANY OUTSIDE AIR INTAKE.

**KEY NOTES:**

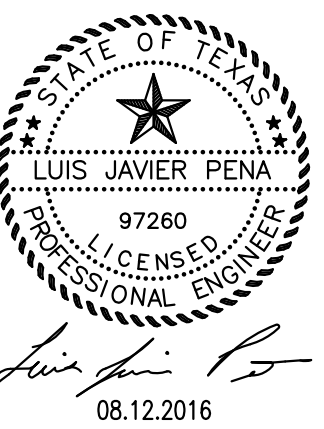
- ① PROVIDE RETURN AIR PLENUM OF EQUAL SIZE OF UNIT OPENING.
- ② PROVIDE AND INSTALL REFRIGERANT LINES PER MANUFACTURER RECOMMENDATIONS. PROVIDE INSULATION ON RETURN LINES. REFRIGERANT LINES LOCATED ON EXTERIOR SHALL BE PROVIDED WITH ALUMINUM JACKET. ROUTE REFRIGERANT LINES TO ASSOCIATED AIR HANDLING UNIT(S).



**A** MECHANICAL FLOOR PLAN  
 SCALE: 1/8" = 1'-0"

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REVISION	DATE	DESCRIPTION



PROPOSED

**HIDALGO COUNTY**  
**PCT. 2**  
**COUNTY WIDE**  
**SERVICE SHOP**

4011 S. VETERANS BLVD.  
 SAN JUAN, TEXAS 78589

PROJECT	1341501
DATE	08/12/2016
REVISED	

**M1.01**  
**MECHANICAL**  
**FLOOR PLAN**

**GENERAL MECHANICAL NOTES**

- 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.
- CONTRACTOR SHALL HANG AND INSTALL ALL DUCTWORK TIGHT WITH THE BUILDING STRUCTURE TO ACCOMMODATE CEILINGS. CONTRACTOR SHALL COORDINATE INSTALLATION WORK WITH ALL OTHER TRADES. ALL DUCTWORK SHALL BE MODIFIED AS REQUIRED TO FIT AROUND BUILDING STRUCTURES.
- 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.
- 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.
- 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.
- PROVIDE SMOKE DETECTORS AND SHUTDOWN CONTROLS ON AIR HANDLING UNITS. SMOKE DETECTORS SHALL BE PROVIDED, INSTALLED, AND WIRED FOR SHUTDOWN BY DIVISION 16.

**GENERAL ABBREVIATIONS**

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
ATF	ABOVE FINISHED FLOOR	KW	KILOWATTS
AHU	AIR HANDLING UNIT	L	LOUVER
ACCU	AIR COOLED CONDENSING UNIT	MAX	MAXIMUM
DB	DRY BULB	MIN	MINIMUM
EDH	ELECTRIC DUCT HEATER	NTS	NOT TO SCALE
EF	EXHAUST FAN	ODB	OPPOSED BLADE DAMPER
FCU	FAN COIL UNIT	S.P.	STATIC PRESSURE
FCCU	FAN COOLED CONDENSING UNIT	WB	WET BULB

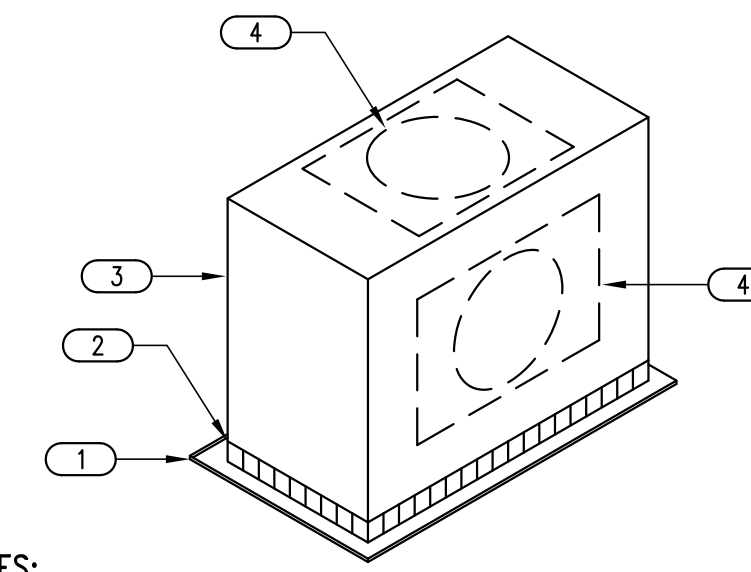
**HVAC SPECIFICATION**

- CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS PRIOR TO BIDDING OR BEGINNING WORK.
- CONTRACTOR SHALL OBTAIN ALL PERMITS AND NOTIFY AUTHORITIES FOR INSPECTIONS.
- CONTRACTOR SHALL PROVIDE A FULLY FUNCTIONAL HVAC SYSTEM TO INCLUDE DUCTWORK, DIFFUSERS AND GRILLES, INSULATION, THERMOSTATS/SENSORS, SUPPLY/EXHAUST FANS, INTERCONNECTING REFRIGERANT LINES, FILTERS, DAMPERS, INTAKE/RELIEF HOODS, ROOF CURBS, AIR CONDITIONING UNITS, AND ANY REQUIRED HANGERS/SUPPORTS.
- WARRANTY: PROVIDE LABOR AND MATERIALS TO REPAIR OR REPLACE DEFECTIVE PARTS AND MATERIALS AS REQUIRED FOR ONE YEAR AFTER SUBSTANTIAL COMPLETION OR OWNER ACCEPTANCE OF THE COMPLETED PROJECT.
- CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- CONTRACTOR SHALL INSTALL FIRE-STOPPING ON ALL PENETRATIONS THRU FIRE-RATED ASSEMBLIES.
- ALL DUCTWORK SHALL BE DESIGNED, MANUFACTURED, AND TESTED IN ACCORDANCE WITH THE LATEST APPLICABLE INDUSTRY STANDARDS INCLUDING THE FOLLOWING:  
 SMACNA "HAC" DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE"  
 ASTM A924/A924M-94, A653-04-65, AND E84  
 NFPA 90A, 96, AND 255  
 UL 181, 555, 555, AND 723  
 DUCT METAL THICKNESS, REINFORCING TYPES AND INTERVALS, AND JOINT TYPES AND INTERVALS SHALL ALSO COMPLY WITH THE REQUIREMENT OF THE ABOVE ORGANIZATIONS.  
 DUCT PRESSURE CLASS SHALL BE 3" W.G. FOR SUPPLY DUCTS FROM UNIT TO VAV BOXES.  
 RETURN, EXHAUST, AND SUPPLY DUCTS LOCATED DOWNSTREAM OF VAV BOXES SHALL BE 1" W.G.  
 DUCT INSULATION SHALL BE 2-INCH THICK MINERAL-FIBER BLANKET WITH 1.5-LB/CU.FT. NOMINAL DENSITY AND FACTORY APPLIED "FSK" JACKET (ALUMINUM-FOL, FIBERGLASS-REINFORCED SCRM WITH KRAFT-PAPER BACKING).
- CONTRACTOR SHALL PROVIDE RECORD "AS-BUILT" PRINTS TO THE OWNER.
- PROVIDE GRILLES, DIFFUSERS, AND DAMPERS IN SIZES, CAPACITIES, MATERIALS, AND PATTERN INDICATED ON THE DRAWINGS.
- FIRE DAMPERS (1-1/2 HOUR) SHALL BE EQUAL TO RUSKIN MODEL "DIB02".
- SQUARE VOLUME DAMPERS SHALL BE EQUAL TO RUSKIN MODEL "MDS25".
- ROUND VOLUME DAMPERS SHALL BE EQUAL TO RUSKIN MODEL "MDS25".

**SPLIT SYSTEM SCHEDULE**

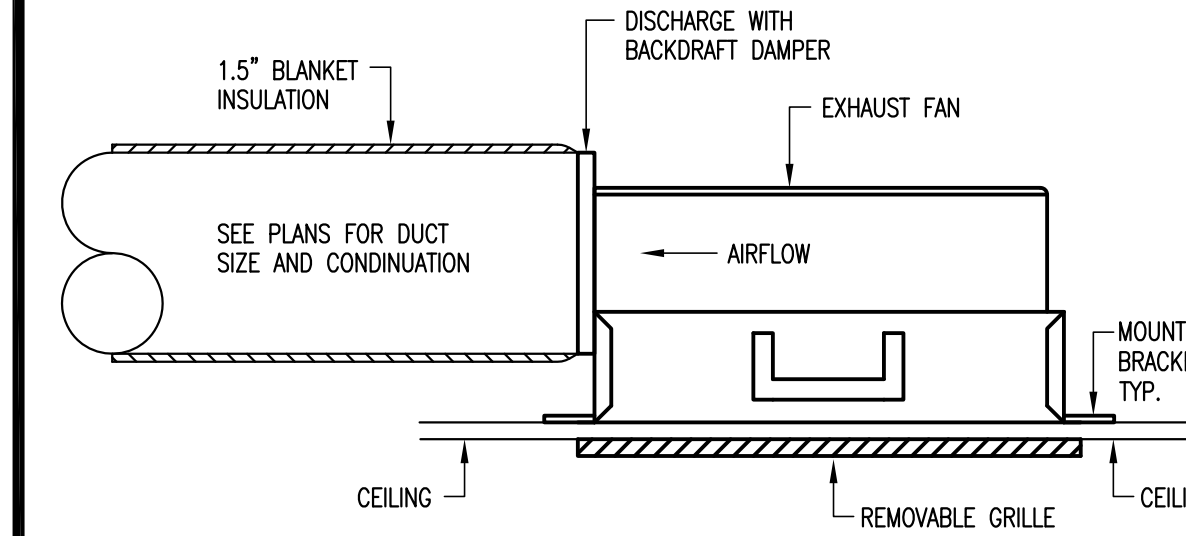
AIR HANDLING UNIT DESIGNATION	AHU-1
SUPPLY CFM	1300
OUTSIDE AIR CFM	175
EXTERNAL S.P. ("W.G.)	0.4
MOTOR HP	1/2
TOTAL CAPACITY (MBH)	37.82
SENSIBLE CAPACITY (MBH)	29.40
ENTERING AIR (DB/WB)F	78/64
LEAVING AIR (DB/WB)F	55/53
HEATER CAPACITY (KW)	8.0
STAGES	1
VOLTAGE/PHASE	208/1φ
MCA/MOCP	44.7/45
MANUFACTURER	CARRIER
MODEL	FB44-042
UNIT WEIGHT (LBS)	150
CONDENSING UNIT DESIGNATION	ACCU-1
CONDENSER AIR (DB)F	98
VOLTAGE/PHASE	208/1φ
MCA/MOCP	23.5/40
MANUFACTURER	CARRIER
MODEL	24ACC-42
UNIT WEIGHT (LBS)	218
EFFICIENCY EER (SEER)	14.0
REMARKS	1,2,3,4,5,6,7,8

- REMARKS
- PROVIDE WITH AUXILIARY DRAIN PAN.
  - PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT.
  - PROVIDE SINGLE POINT POWER.
  - PROVIDE 4-INCH CONCRETE PAD FOR CONDENSING UNIT. PAD SHALL EXTEND 6-INCHES BEYOND UNIT PERIMETER.
  - PROVIDE AND INSTALL REFRIGERANT LINES PER MANUFACTURER RECOMMENDATIONS.
  - CONDENSER COILS SHALL BE CORROSION RESISTANT.
  - PROVIDE WITH FILTER BASE WITH STANDARD SIZE FILTER (20"x20").
  - PROVIDE WITH SAFETY FLOAT SWITCH.



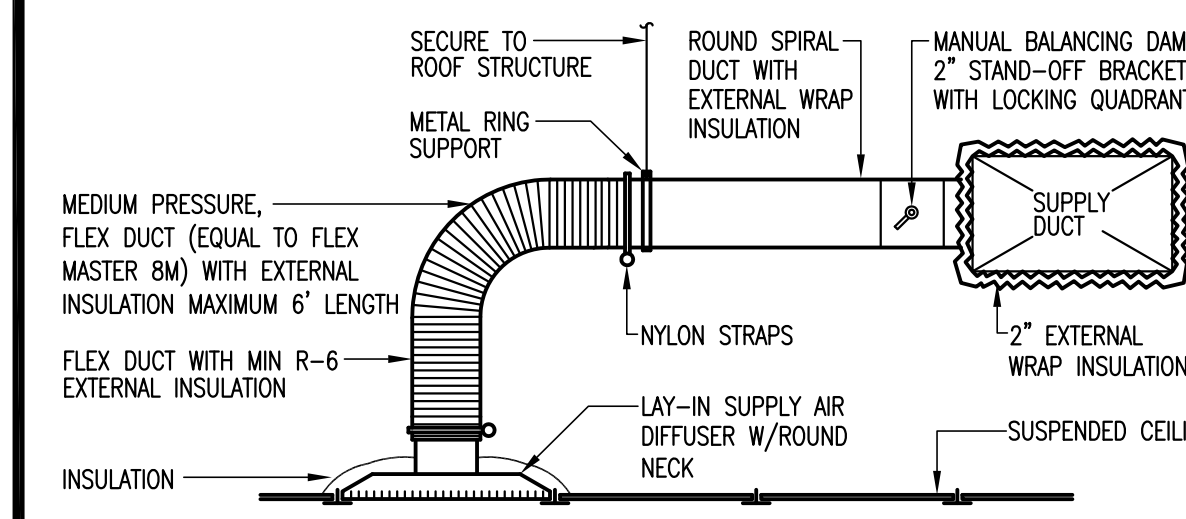
- KEY NOTES:**
- CEILING MOUNTED RETURN/EXHAUST AIR GRILLE. SEE PLANS AND SCHEDULE.
  - SECURE INTERNALLY LINED PLENUM TO AIR DEVICE.
  - PLENUM HEIGHT SHALL BE 12-INCHES MINIMUM WITH 1.5" INTERNAL LINING.
  - PROVIDE ROUND/SQUARE TAP CONNECTION AS REQUIRED.

**A RETURN/EXHAUST AIR DEVICE PLENUM**  
 SCALE: NTS



NOTE: INSTALL PER MANUFACTURER RECOMMENDATIONS

**B CEILING MOUNTED EXHAUST FAN**  
 NO SCALE



**C SUPPLY AIR DIFFUSER**  
 SCALE: N.T.S.

**NECK/BRANCH DUCT SIZE CHART**

SUPPLY DUCT			RETURN DUCT		
NECK/BRANCH SIZE	CFM RANGE		NECK/BRANCH SIZE	CFM RANGE	
6" DIAMETER	6/6 DUCT	0 - 100	6" DIAMETER	6/6 DUCT	0 - 75
8" DIAMETER	12/8 DUCT	101 - 225	8" DIAMETER	12/8 DUCT	76 - 150
10" DIAMETER	12/8 DUCT	226 - 400	10" DIAMETER	12/8 DUCT	151 - 275
12" DIAMETER	12/10 DUCT	401 - 675	12" DIAMETER	12/10 DUCT	276 - 475
14" DIAMETER	14/12 DUCT	676 - 1000	14" DIAMETER	14/12 DUCT	476 - 700
16" DIAMETER	18/12 DUCT	1001 - 1400	16" DIAMETER	18/12 DUCT	701 - 1000
18" DIAMETER	24/12 DUCT	1401 - 2000	18" DIAMETER	24/12 DUCT	1001 - 1300
20" DIAMETER	24/14 DUCT	2001 - 2500	20" DIAMETER	24/14 DUCT	1301 - 1800
22" DIAMETER	20/22 DUCT	2501 - 3200	22" DIAMETER	22/20 DUCT	1801 - 2300
24" DIAMETER	22/24 DUCT	3201 - 4200	24" DIAMETER	24/22 DUCT	2301 - 2800
			26" DIAMETER	24/24 DUCT	2801 - 3600
			28" DIAMETER	26/26 DUCT	3601 - 4200

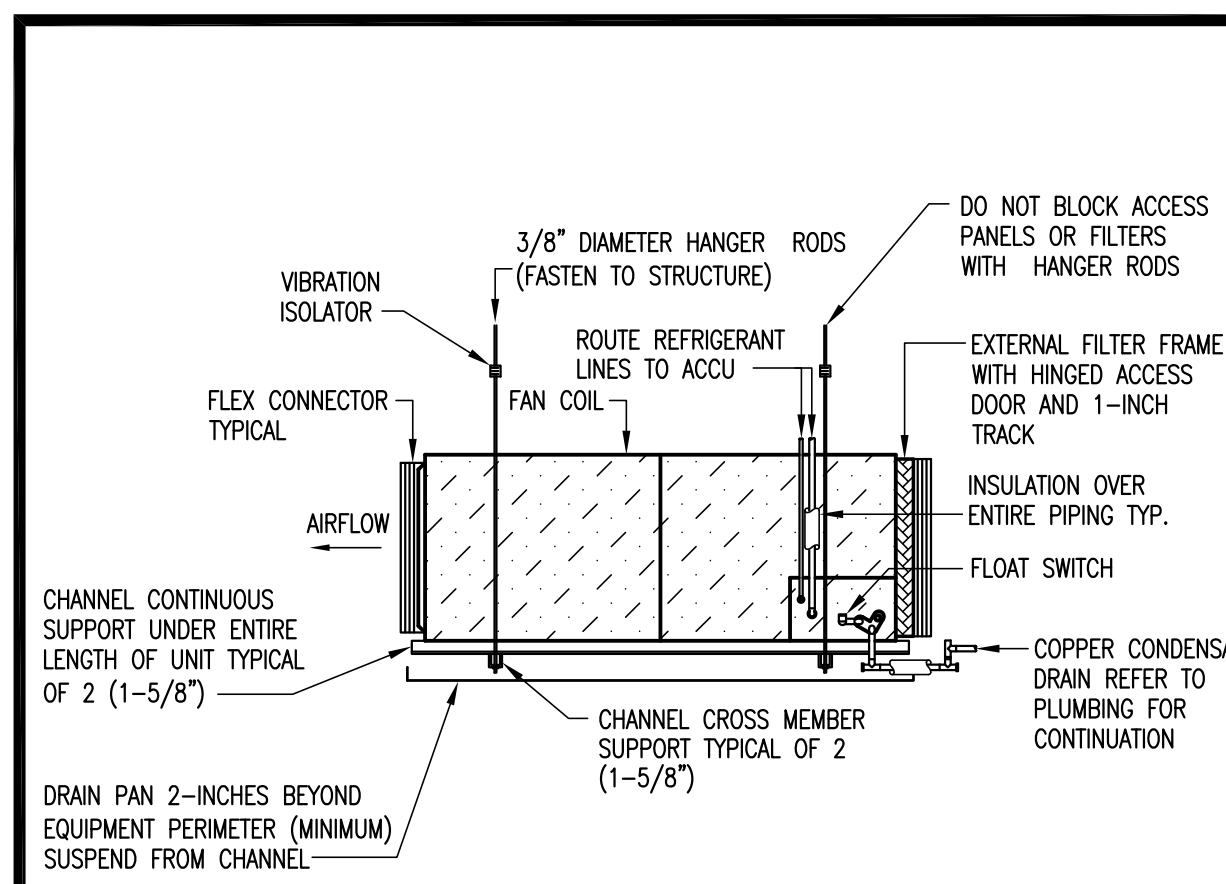
**EXHAUST FAN SCHEDULE**

DESIGNATION	EF-1	EF-2
EXHAUST CFM	100	200
EXTERNAL S.P. ("W.G.)	0.375	0.375
MOTOR HP	41 WATTS	86 WATTS
MOTOR RPM	965	1062
DRIVE TYPE	DIRECT	DIRECT
FAN TYPE	CENTRIFUGAL	CENTRIFUGAL
MOUNTING LOCATION	CEILING	CEILING
SONES	2.0	5.0
VOLTAGE/PHASE	120/1φ	120/1φ
MANUFACTURER	COOK	COOK
MODEL	GC-148	GC-186
UNIT WEIGHT (LBS)	12	13
REMARKS	1,2,3,4,5	1,2,3,4,5

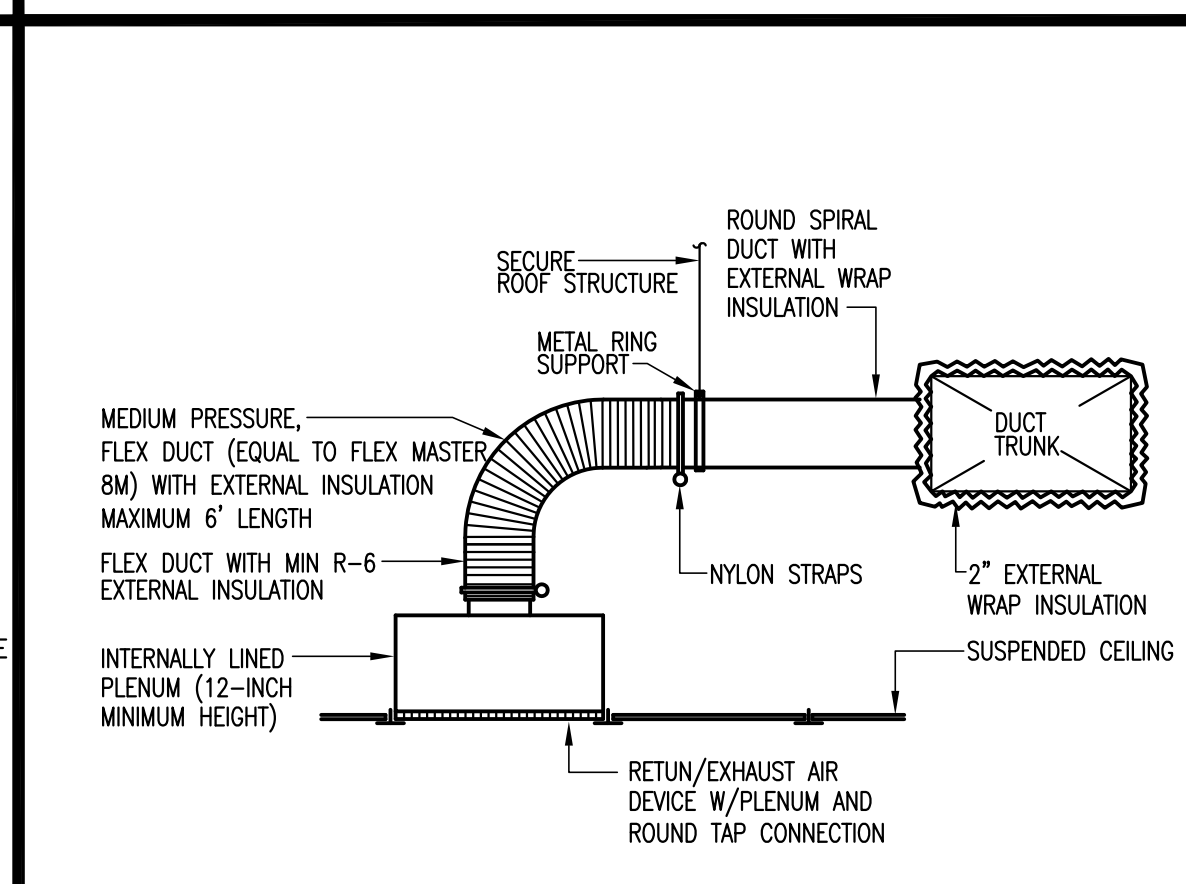
- REMARKS
- PROVIDE WITH INTERNAL DISCONNECT.
  - PROVIDE WITH BACK DRAFT DAMPER.
  - PROVIDE WITH FAN SPEED CONTROL.
  - SWITCH WITH LIGHTS.
  - PROVIDE WITH WALL CAP.

**MECHANICAL SYMBOLS**

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)
⊕	RECTANGULAR DUCT TRANSITION	⊕	ROUND BRANCH DUCT WITH MANUAL BALANCING DAMPER
⊗	ROUND FLEX DUCT	⊕	ROOF TOP UNIT (SEE SCHEDULE)
		⊕	THERMOSTAT



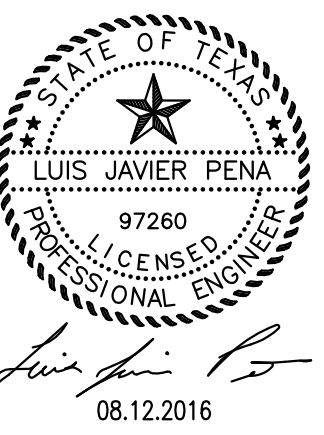
**D AIR HANDLING UNIT DETAIL**  
 SCALE: N.T.S. HORIZONTAL/SUSPENDED



**E RETURN/EXHAUST AIR DEVICE**  
 SCALE: N.T.S.

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REVISION	DATE	DESCRIPTION



PROPOSED  
**HIDALGO COUNTY PCT. 2 COUNTY WIDE SERVICE SHOP**  
 4011 S. VETERANS BLVD.  
 SAN JUAN, TEXAS 78589

PROJECT 1341501  
 DATE 08/12/2016  
 REVISION

**FIELD VERIFY ALL CONDITIONS**

DESIGN DRAWINGS SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

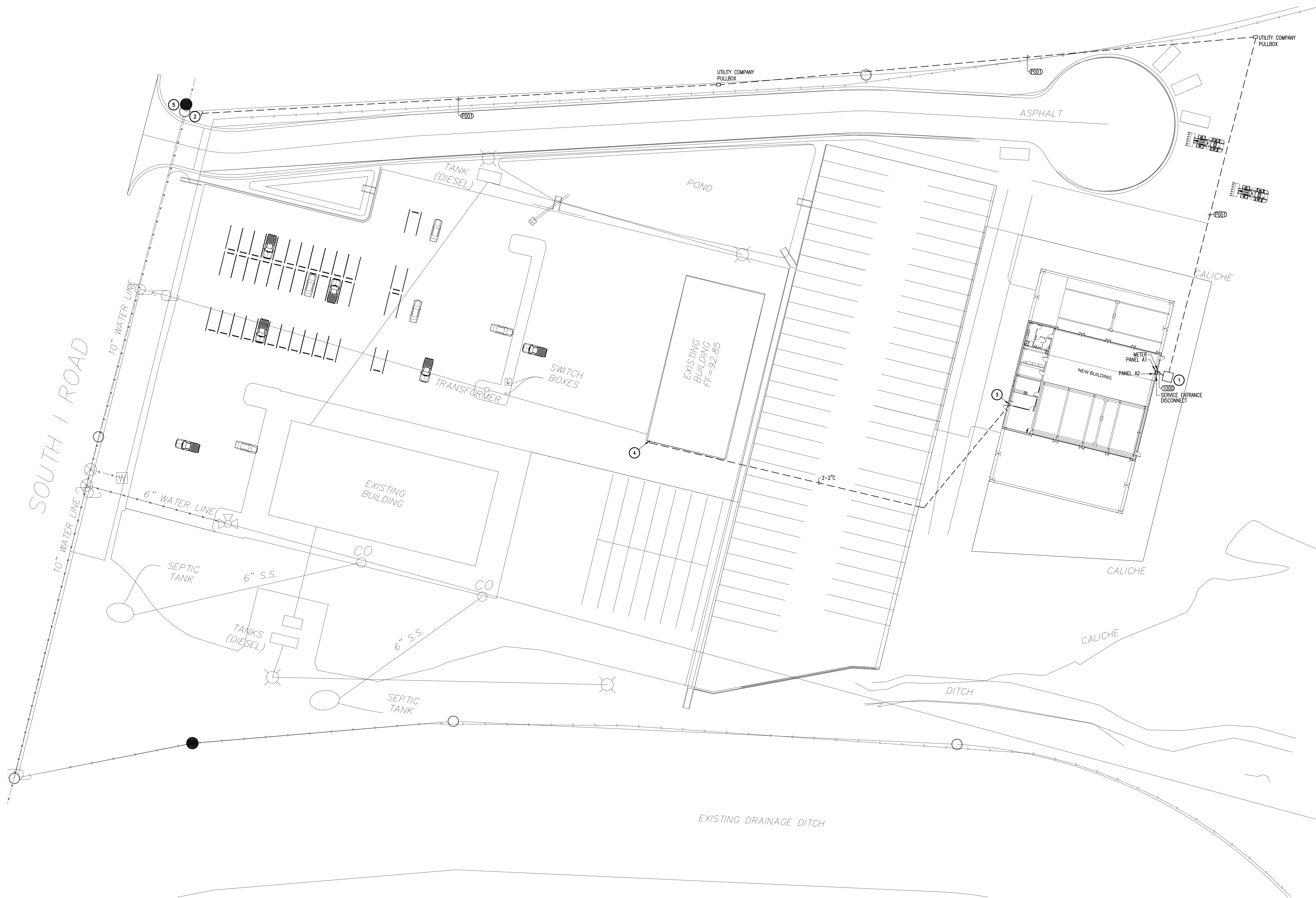
**KEYED NOTES: ○**

- 1 TRANSFORMER PAD FOR UTILITY COMPANY TRANSFORMER.
- 2 ROUTE AS DIRECTED BY UTILITY COMPANY.
- 3 APPROXIMATE LOCATION OF TELEPHONE/DATA CONDUITS.
- 4 CONDUITS SHALL BE ROUTED TO EXISTING TELEPHONE/DATA LOCATION WHERE EXISTING CONDUITS ARE RUN TO EXISTING MAIN BUILDING.
- 5 CONTRACTOR SHALL COORDINATE WITH OWNER AND AEP FOR 3-PHASE SERVICE TO SITE. AEP HAS PROVIDED OWNER WITH COST ESTIMATE FOR SERVICE TO SITE. CONTRACTOR SHALL INCLUDE ASSOCIATED COST FOR SERVICE FROM PROPERTY LINE TO TRANSFORMER.

**GENERAL NOTES: ( )**

(A) INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ENGINEER.

(B) FOR FEEDER / BRANCH CIRCUIT SCHEDULE REFER TO SHEET E2.01, DETAIL D.



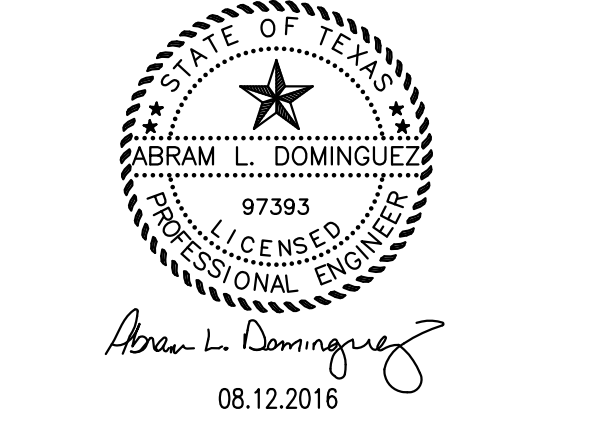
**A ELECTRICAL SITE PLAN**  
SCALE: 1" = 30'-0"



**TWG**  
THE WARREN GROUP ARCHITECTS, INC.  
1801 SOUTH SECOND ST. SUITE 330  
McALLEN, TX 78503  
956.994.1900  
twgarch.com

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**E1.00**  
ELECTRICAL  
SITE PLAN

**GENERAL NOTES:**

- A. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN (RCP) FOR EXACT LOCATION OF LIGHT FIXTURES. FURNISH FIXTURES WITH TRIM COMPATIBLE WITH THE TYPE OF CEILING AS INDICATED ON THE RCP.
- B. EXIT LIGHTS ARE TYPE X, UNO. CONNECT EXIT LIGHT FIXTURES TO UN-SWITCHED CIRCUIT SERVING SPACE IN WHICH FIXTURE IS INSTALLED. INSTALL WALL MOUNTED FIXTURES 8'-0" AFF. UNO.
- C. COORDINATE PLACEMENT OF FIXTURES WITH ACTUAL INSTALLATION OF MECHANICAL EQUIPMENT AND DUCTWORK.
- D. WHERE TWO LIGHT SWITCHES ARE SHOWN ADJACENT TO EACH OTHER, THE SWITCH NEAREST THE DOOR CONTROLS THE OUTER LAMPS IN ALL THE FIXTURES IN THE SPACE AND THE OTHER SWITCH CONTROLS THE INNER LAMPS IN ALL THE FIXTURES IN THE SPACE. UNO.
- E. CIRCUIT EMERGENCY FIXTURES IN CLASSROOMS TO PERMIT ALL THE LAMPS TO BE SWITCHED OFF, LEAVING THE BATTERY IN STAND BY CONDITION, SO THE EMERGENCY BATTERY UNIT WILL OPERATE ONE LAMP WHEN THE NORMAL POWER IS INTERRUPTED. REQUEST THE REQUIRED WIRING DIAGRAM FROM EQUIPMENT MANUFACTURER. ALL EMERGENCY LIGHTING FIXTURES SHALL BE CIRCUITED TO THE NON-SWITCHED PHASE WIRE IN ADDITION TO THE SWITCHED LEG. REFER TO DETAIL 05/SHEET E4.01. WIRING DETAIL. ALL EXIT SIGNS SHALL BE CIRCUITED TO THE NON-SWITCHED PHASE WIRE ONLY.
- F. SWITCH LEGS ARE NOT SHOWN WHERE SWITCHING SCHEME IS OBVIOUS.
- G. FIXTURES SHALL BE CIRCUITED TO CIRCUIT INDICATED IN SPACE. UNO.
- H. FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULE, REFER TO DETAIL C/SHEET E3.00.

**KEYED NOTES: ○**

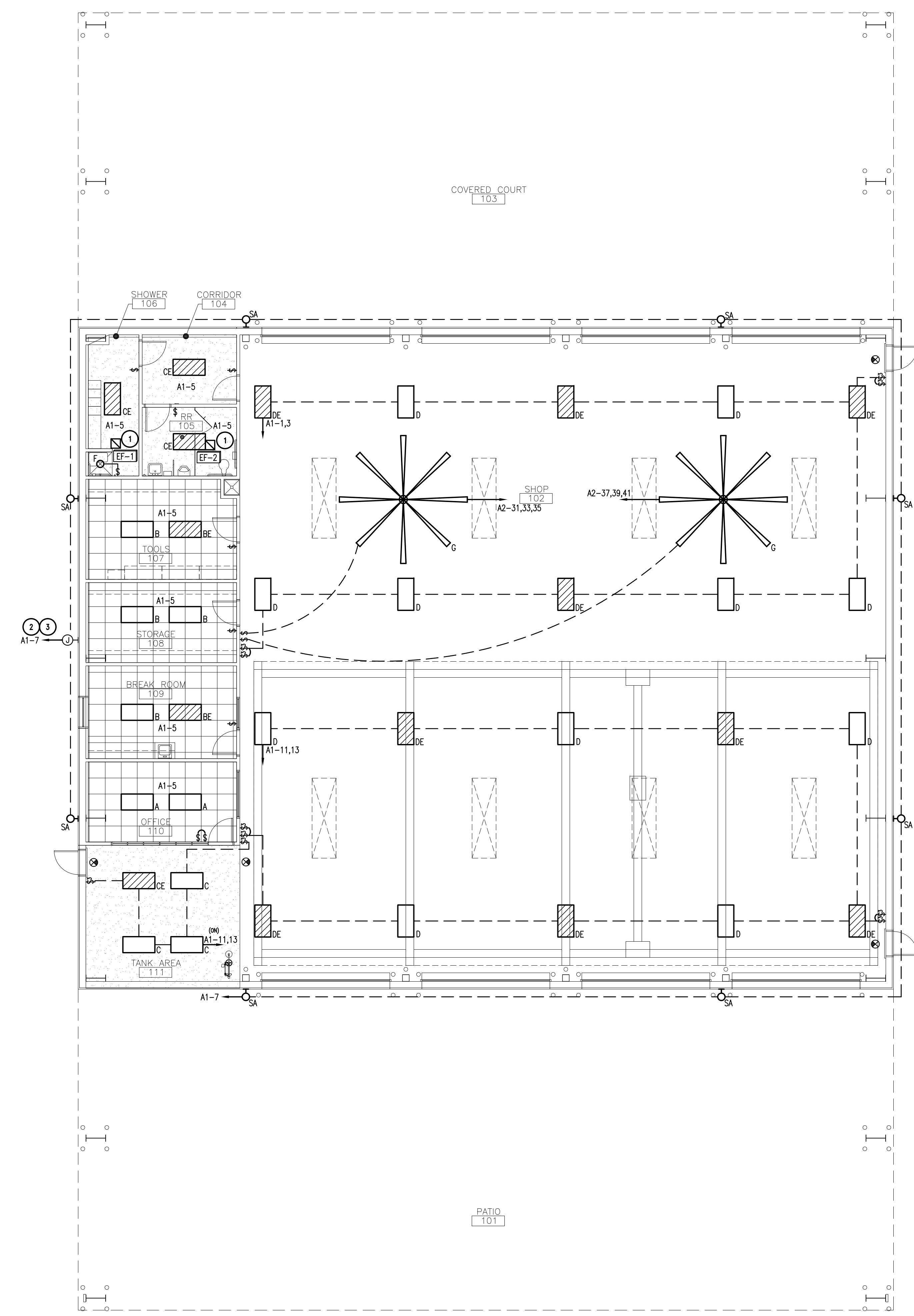
- ① EXHAUST FAN SHALL BE SWITCHED WITH LIGHTS.
- ② LIGHTING CIRCUIT SHALL BE CONTROLLED VIA THE LIGHTING CONTROLLER WITH A 7-DAY, 24 HOUR, PROGRAMMABLE, ASTRONOMICAL TIME CLOCK AND BY-PASS PROTOCOLS. PHOTOCELL MOUNTED ON BUILDING EXTERIOR ON NORTH WALL FACING EXPOSURE.
- ③ FURNISH AND INSTALL WEATHERPROOF J-BOX MOUNTED AT 18" AFF FOR CONNECTION OF SIGN. STUB IN 3/4" FROM J-BOX INTO ATTIC SPACE. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.

**FIELD VERIFY ALL CONDITIONS**

DESIGN DRAWINGS SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

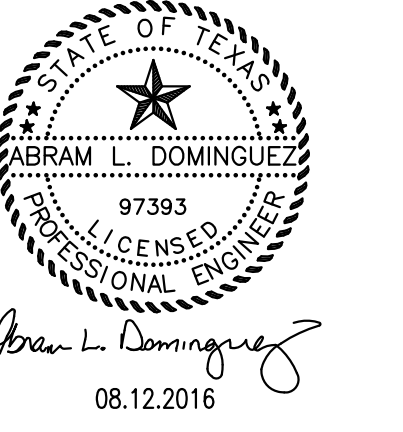
THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTOR'S COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.



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REVISION	DATE	DESCRIPTION



PROPOSED  
**HIDALGO COUNTY**  
**PCT. 2**  
**COUNTY WIDE**  
**SERVICE SHOP**  
 4011 S. VETERANS BLVD.  
 SAN JUAN, TEXAS 78589

PROJECT 1341501  
 DATE 08/12/2016  
 REVISION

**E1.01**  
**ELECTRICAL LIGHTING**  
**FLOOR PLAN**

**A ELECTRICAL LIGHTING FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"

**FIELD VERIFY ALL CONDITIONS**

DESIGN DRAWINGS SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

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**GENERAL NOTES:**

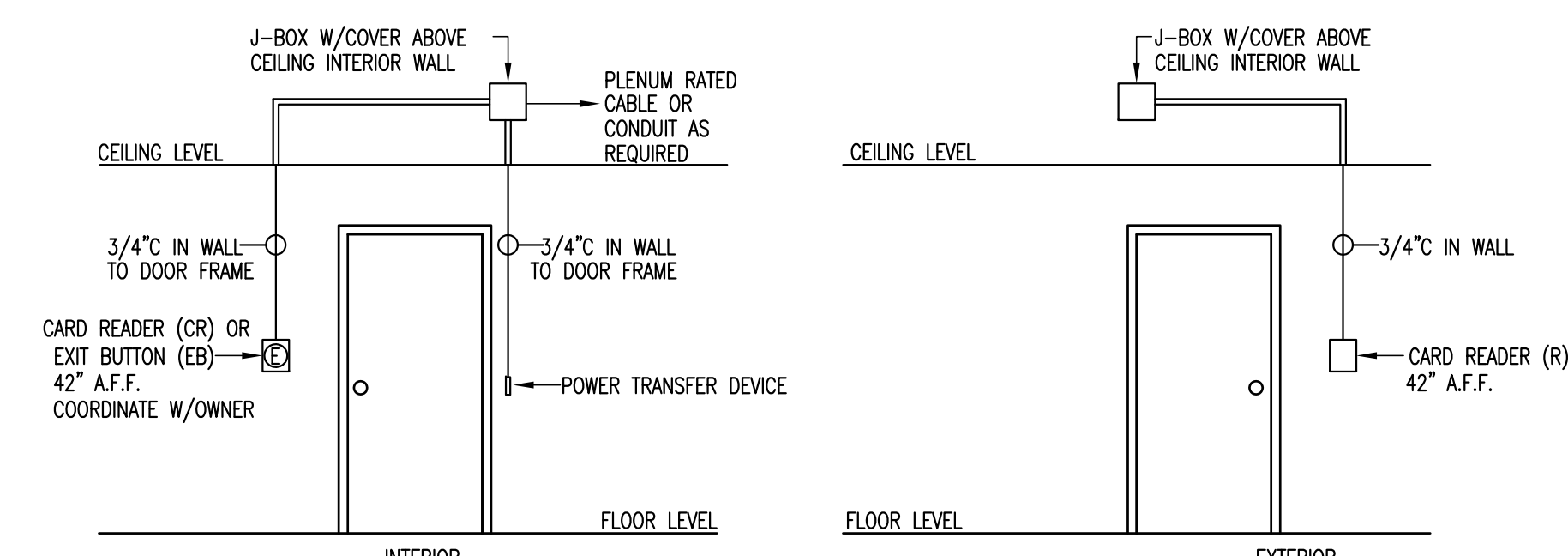
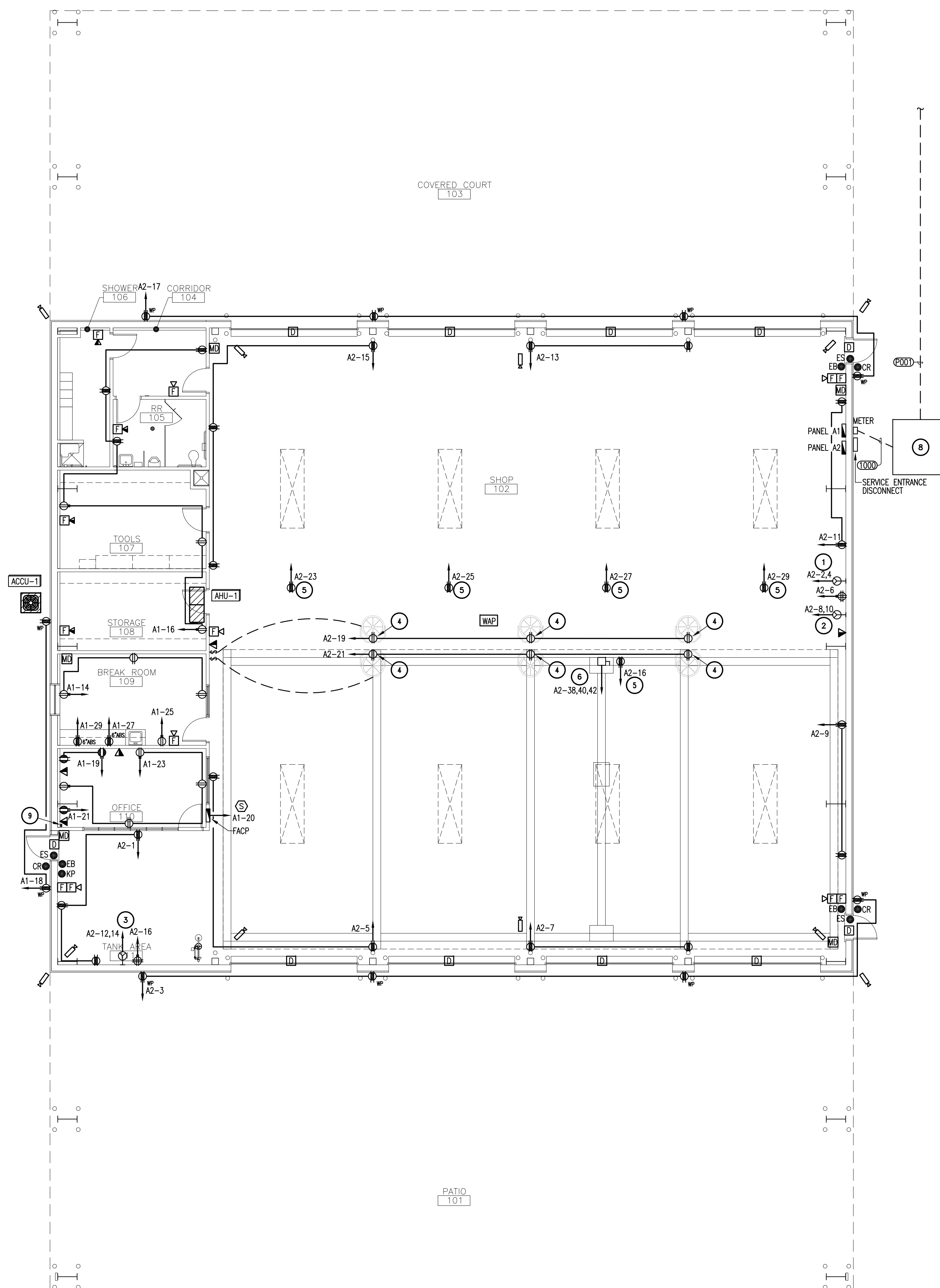
- A. COORDINATE ROUGH-IN LOCATION OF ALL DEVICES WITH ARCHITECTURAL ELEVATIONS, DETAILS, AND PLANS.
- B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL HAVE SOUND RETARDING /ABSORBING FIRE STOP MATERIAL.
- C. ALL DEVICES SHALL SHARE COMMON FACEPLATE WHERE APPLICABLE.
- D. FOR FEEDER / BRANCH CIRCUIT SCHEDULE REFER TO SHEET E2.01, DETAIL D.

**KEY NOTES:**

- 1 FURNISH AND INSTALL RECEPTACLE AS INDICATED FOR WELDER. ROUTE 3#6, #10G, 3/4".
- 2 FURNISH AND INSTALL RECEPTACLE AS INDICATED FOR PRESSURE WASHER. ROUTE 3#6, #10G, 3/4".
- 3 FURNISH AND INSTALL DISCONNECT AS INDICATED FOR COMPRESSOR. ROUTE 3#6, #10G, 3/4".
- 4 COORDINATE EXACT LOCATION OF FAN RECEPTACLE WITH OWNER, PRIOR TO ROUGH-IN.
- 5 FURNISH AND INSTALL RETRACTABLE DROP CORD WITH KELLEEM STRAIN RELIEF GRP. FURNISH WITH 20AMP, 120V NEMA 5-20R DUPLEX RECEPTACLE. CORD REEL SHALL BE SECURELY MOUNTED TO STRUCTURE. COORDINATE CONNECTION TYPE AND LOCATION WITH OWNER PRIOR TO ROUGH-IN. ROUTE 2#12, 12G, 1/2".
- 6 FURNISH AND INSTALL DISCONNECT AS INDICATED FOR CRANE. ROUTE 3#6, #10G, 3/4".
- 7 FOR CRANE CONTROLS, COORDINATE EXACT LOCATION OF RECEPTACLE WITH OWNER, PRIOR TO ROUGH-IN.
- 8 TRANSFORMER PAD FOR UTILITY COMPANY TRANSFORMER.
- 9 FURNISH AND INSTALL 2-2" CONDUIT FOR CONNECTION OF DATA/TELEPHONE. REFER TO SITE PLAN FOR CONTINUATION.

**LEGEND**

DOOR CONTACT
MOTION DETECTOR
GLASS BREAK
CR CARD READER
ES ELECTRIC STRIKE
EB EGRESS BUTTON
ML MAGLOCK
KP ALARM KEYPAD
ACCESS CONTROL PANEL



**B ELECTRICAL DOOR DETAIL**  
SCALE: N.T.S.

**A ELECTRICAL LIGHTING FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

**TWGW**  
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REVISION	DATE	DESCRIPTION

STATE OF TEXAS  
ABRAM L. DOMINGUEZ  
97393  
LICENSED PROFESSIONAL ENGINEER  
*Abram L. Dominguez*  
08.12.2016

PROPOSED  
**HIDALGO COUNTY  
PCT. 2  
COUNTY WIDE  
SERVICE SHOP**  
4011 S. VETERANS BLVD.  
SAN JUAN, TEXAS 78589

PROJECT 1341501  
DATE 08/12/2016  
REVISED

**MEP SOLUTIONS**  
ENGINEERING  
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS  
600 E. BEAUMONT AVE. SUITE 2 MCALLEN, TX 78501 (956) 684-2727  
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-6748

**E1.02**  
ELECTRICAL POWER  
FLOOR PLAN

# ELECTRICAL SYSTEM – SECTION 16000

THE ELECTRICAL WORK INCLUDES PROVIDING NEW MATERIALS, FIXTURES, DEVICES AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING ELECTRICAL SYSTEM. THE WORK ALSO INCLUDES FINAL CONNECTIONS TO FOOD SERVICE EQUIPMENT ITEMS PROVIDED BY OTHERS. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES OR ORDINANCES AND SUBJECT TO INSPECTION.

THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR ELECTRICAL WORK ARE DIAGRAMMATIC, SHOWING THE LOCATION, TYPE DEVICES AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. PROVIDE ALL FIXTURES, LAMPS, DEVICES, ACCESSORIES, OFFSETS AND MATERIALS NECESSARY TO FACILITATE THE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT MANUFACTURER.

COORDINATE WITH THE WORK OF OTHER SECTIONS. VERIFY EXISTING SITE CONDITIONS BEFORE BIDDING. MAKE ALL CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS. COMPLY WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION REGARDING KITCHEN EQUIPMENT, CASEWORK, AND REQUIRED ELECTRICAL CONNECTIONS.

ALL WORK SHALL COMPLY WITH LOCAL LAWS GOVERNING ELECTRICAL INSTALLATIONS, AND THE MOST RECENT EDITION OF THE "NATIONAL ELECTRIC CODE". PROVIDE CODE REQUIRED CLEARANCES AROUND ALL ELECTRICAL EQUIPMENT. OBTAIN ALL PERMITS AND PAY ANY FEES RELATING TO ELECTRICAL WORK.

MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM TO NEMA, NATIONAL ELECTRIC CODE (NEC), AND UNDERWRITERS LABORATORIES (UL) STANDARDS IN EVERY CASE WHERE SUCH STANDARDS HAVE BEEN ESTABLISHED.

VERIFY VOLTAGE DROPS AND A.I.C. RATINGS FOR ALL EQUIPMENT CONNECTED, AND VERIFY SIZE OF ELECTRICAL SYSTEM BREAKERS, CONDUITS, ETC.

TEMPORARY SERVICES: ARRANGE FOR SOURCES OF TEMPORARY CONSTRUCTION SERVICES. SUCH SERVICES SHALL BE NOMINALLY 120/208 VOLT, 3-PHASE, 4-WIRE FROM WHICH A COMPLETE SYSTEM OF TEMPORARY POWER AND LIGHTING SHALL BE PROVIDED FOR ALL CONSTRUCTION NEEDS.

DISCONNECT SWITCHES SHALL BE HEAVY-DUTY, QUICK-MAKE, QUICK-BREAK TYPE NEMA 1 ENCLOSURE (NEMA 3R FOR OUTDOOR). SWITCHES SHALL BE AS MANUFACTURED BY SQUARE "D", GENERAL ELECTRIC, OR CUTLER HAMMER PROVIDE ALL FUSES AS MANUFACTURED BY BUSSMAN, GOULD-SHAMMUT, OR LITTLE-FUSE. ALL CONDUCTOR TERMINALS TO BE U.L. FOR MINIMUM 75°C.

PANELBOARDS SHALL BE AS MANUFACTURED BY SQUARE "D", GENERAL ELECTRIC, OR CUTLER HAMMER; MEETING U.L. STANDARDS 30 AND 67, WITH U.L. LABEL. ALL CONDUCTOR TERMINALS TO BE U.L. FOR MINIMUM 75°C.

BREAKERS TO BE THERMAL MAGNETIC TYPE, BOLT-ON, QUICK-MAKE, QUICK-BREAK TYPE SINGLE UNIT CONSTRUCTION. TWO AND THREE POLE BREAKERS SHALL BE SINGLE UNIT COMMON TRIP TYPE. ALL BREAKERS CONNECTED TO LIGHTING BRANCH CIRCUITS SHALL BE APPROVED FOR THAT USE AND MARKED "SMO".

PANELBOARD CABINETS SHALL BE ONE PIECE CODE GAGE GALVANIZED STEEL WITH MOUNTING STUDS. WIRING CUTTERS OF AMPLE SIZE AND KNOCKOUTS FOR CONDUIT CONNECTIONS AS REQUIRED. BUS BARS SHALL BE 98 % CONDUCTIVE COPPER. FRONTS SHALL BE ONE PIECE CODE GAGE STEEL WITH ADJUSTABLE FASTENERS. PROVIDE FLUSH MOUNT UNITS UNLESS OTHERWISE INDICATED. PROVIDE A PLASTIC COVERED TYPEWRITTEN SCHEDULE IDENTIFYING ALL BRANCH CIRCUITS INSIDE EACH CABINET.

GROUNDING SYSTEM: PERMANENTLY AND EFFECTIVELY GROUND ALL METALLIC CONDUITS, SUPPORTS, CABINETS, PANELBOARDS AND SYSTEM GROUNDING NEUTRAL. MAINTAIN CONTINUITY OF EQUIPMENT GROUND THROUGHOUT THE SYSTEM. GROUND CLAMPS SHALL BE APPROVED TYPE, SPECIFICALLY DESIGNED FOR GROUNDING. WHERE GROUNDING CONDUCTOR IS ENCLOSED IN CONDUIT, GROUND CLAMP SHALL BE OF A TYPE WHICH GROUNDS BOTH CONDUCTOR AND CONDUIT. ALL CIRCUITS IN FLEXIBLE CONDUIT OR PLASTIC CONDUIT SHALL INCLUDE A GROUND WIRE SIZED IN ACCORDANCE WITH "NEC" TABLE 250-95.

CONDUIT SHALL BE SIZED TO COMPLY WITH "NEC" FOR NUMBER AND SIZE OF CONDUCTORS INSTALLED. MINIMUM SIZE OF 1/2" ABOVE GRADE (UNLESS 3/4" IS REQUIRED BY LOCAL JURISDICTION). PROVIDE SCHEDULE 40 PVC PLASTIC OR RIGID STEEL CONDUIT BELOW GRADE, MINIMUM SIZE OF 3/4". PROVIDE ELECTRICAL METAL TUBING (EMT) MEETING FS #W-5653, OR FLEXIBLE CONDUIT (IN LENGTHS 6'-0" OR LESS) FOR INTERIOR LOCATIONS. EMT CONNECTORS AND COUPLINGS SHALL BE SET-SCREW TYPE. CLAMP CONDUIT TO BOXES WITH BUSHINGS INSIDE AND LOCKNUT OUTSIDE. TYPE AC & MC ARMORED CABLE IS ACCEPTABLE IN CONSTRUCTION TO BE SECURELY FASTENED TO STRUCTURE (UNLESS NOT ACCEPTABLE BY LOCAL JURISDICTION).

CONDUCTORS SHALL BE INSULATED SOFT ANNEALED 98 % PURE COPPER WITH COLOR CODING. B & S GAGE, #10 AND SMALLER TO BE SOLID, #8 AND LARGER TO BE STRANDED, MINIMUM #12 UNLESS OTHERWISE INDICATED. ALUMINUM CONDUCTORS SHALL NOT BE ALLOWED. "THIN" MAY NOT BE USED UNDERGROUND, AT SERVICE ENTRANCE, OUTSIDE, OR IN WET LOCATIONS. ALL INSULATION TO BE RATED FOR 600 VOLT AND TYPES AS FOLLOWS:

#10 AND SMALLER: THW, THHN, OR THWN  
#8 AND LARGER: THW OR THHN  
SERVICE ENTRANCE: USE-RHW

WIRE THROUGH FLUORESCENT FIXTURES OR WITHIN 3" OF HEATING EQUIPMENT TO BE "THIN".

DEVICES SHALL BE MANUFACTURED BY LEVITON OR EQUAL. ALL DEVICES AND COVER PLATES SHALL BE WHITE COLOR. STANDARD DUPLEX RECEPTACLES SHALL BE GROUNDING TYPE, 20 AMP, NEMA 5-20R, BACK AND SIDE WIRE. OTHER DEVICES SHALL BE AS INDICATED ON THE DRAWINGS OR AS REQUIRED BY THE EQUIPMENT ITEM INTENDED TO BE SERVED. WHERE SWITCHES ARE GROUPED, PROVIDE GANG PLATES.

SPECIAL PLATES: PROVIDE STAINLESS STEEL PLATES AT ALL RECEPTACLES INSTALLED IN THE KITCHEN AND BACK LINE AREAS.

LAYOUT BRANCH CIRCUIT WIRING AND ARRANGEMENT OF HOME RUNS FOR MAXIMUM ECONOMY AND EFFICIENCY. INCREASE WIRE SIZE IF VOLTAGE DROP EXCEEDS 3% OR CONDUCTOR LENGTH EXCEEDS 100 FEET.

## A ELECTRICAL SPECIFICATIONS

SCALE: N.T.S.

ELECTRICAL 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)	SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
[Symbol]	2'x4' FLUORESCENT LIGHT FIXTURE	SEE FIX. SCH.	[Symbol]	FIRE ALARM SPRINKLER FLOW SWITCH	-
[Symbol]	2'x4' FLUORESCENT LIGHT FIXTURE ON EMERGENCY CIRCUIT	SEE FIX. SCH.	[Symbol]	FIRE ALARM SPRINKLER TAMPER SWITCH	-
[Symbol]	2'x4' FLUORESCENT LIGHT FIXTURE SWITCHED W/ INBOARD LAMPS ONE SWITCH AND OUTBOARD LAMPS ON ANOTHER	SEE FIX. SCH.	[Symbol]	FIRE ALARM SPRINKLER PRESSURE SWITCH	-
[Symbol]	2'x4' FLUORESCENT LIGHT FIXTURE W/INBOARD LAMPS ON EMERGENCY CIRCUIT AND OUTBOARD LAMPS ON NORMAL CIRCUIT	SEE FIX. SCH.	[Symbol]	FIRE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED	80" AFF
[Symbol]	2'x2' FLUORESCENT LIGHT FIXTURE	SEE FIX. SCH.	[Symbol]	HEAT DETECTOR CEILING OR WALL MOUNTED	-
[Symbol]	2'x2' FLUORESCENT LIGHT FIXTURE ON EMERGENCY CIRCUIT	SEE FIX. SCH.	[Symbol]	DUCT SMOKE DETECTOR	-
[Symbol]	FLUORESCENT STRIP LIGHT	SEE FIX. SCH.	[Symbol]	SMOKE DOOR HOLDER	-
[Symbol]	1'x4' FLUORESCENT LIGHT FIXTURE	SEE FIX. SCH.	[Symbol]	FIRE ALARM CONTROL PANEL	-
[Symbol]	TRACK LIGHT	SEE FIX. SCH.	[Symbol]	FIRE ALARM ANNUNCIATOR PANEL	-
[Symbol]	INCANDESCENT, FLUORESCENT, OR HID WALL WASHER LIGHT FIXTURE, CEILING MTD.	SEE FIX. SCH.	[Symbol]	P.A. SPEAKER, CEILING OR WALL MOUNTED	9" BFC
[Symbol]	INCANDESCENT, FLUORESCENT, OR HID FIXTURE CLG. OR WALL MTD.	SEE FIX. SCH.	[Symbol]	MICROPHONE OUTLET	-
[Symbol]	INCANDESCENT, FLUORESCENT, OR HID FIXTURE ON EMERGENCY CCT. CLG. OR WALL MTD.	SEE FIX. SCH.	[Symbol]	DISCONNECT SWITCH - 30/-/3 INDICATES 30A, 3-POLE, NONFUSED; 30/30/3 INDICATES 30A, 3-POLE, 30A FUSE	AS REQD.
[Symbol]	EXIT LIGHT, CEILING OR WALL MOUNTED - SHADING INDICATING SINGLE OR DOUBLE FACE, DIRECTIONAL ARROWS AS INDICATED	9" BFC	[Symbol]	CIRCUIT BREAKER DISCONNECT SWITCH - THERMAL MAGNETIC CB IN NEMA 1 ENCL. AMPS/POLES AS INDICATED	AS REQD.
[Symbol]	WALL SWITCH SPST, 20A/120/277V	48" AFF	[Symbol]	DISCONNECT SWITCH - 30/30/3 INDICATES 30A, 3-POLE, 30A FUSE	AS REQD.
[Symbol]	DOUBLE POLE TOGGLE SWITCH, 20A/120/277V	48" AFF	[Symbol]	MOTOR STARTER FVAR UNO; NUMBER INDICATES NEMA SIZE	AS REQD.
[Symbol]	3-WAY WALL SWITCH, 20A/120/277V	48" AFF	[Symbol]	COMBINATION MOTOR CONTROLLER/DISCONNECT SWITCH	AS REQD.
[Symbol]	4-WAY WALL SWITCH, 20A/120/277V	48" AFF	[Symbol]	MOTOR	-
[Symbol]	WALL DIMMER SWITCH	48" AFF	[Symbol]	PANELBOARD	-
[Symbol]	KEY OPERATED WALL SWITCH	48" AFF	[Symbol]	CIRCUIT HOME RUN TO PANELBOARD (2 #12, 1 #16, 1/2" C. 20A/1P CB UNO)	-
[Symbol]	WALL SWITCH WITH PILOT LIGHT	48" AFF	[Symbol]	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS	-
[Symbol]	SINGLE RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R	15" AFF	[Symbol]	MULTI-POLE DEVICE CIRCUIT NUMBERS	-
[Symbol]	DUPLEX RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R	15" AFF	[Symbol]	MOTION DETECTOR, CEILING OR WALL MOUNTED	-
[Symbol]	DUPLEX RCPT. SPLIT-WIRED - 20A/125V/2P/3W/G NEMA 5-20R	15" AFF	[Symbol]	DOOR HOLDER - REFER TO ARCHITECTURAL DOOR SCHEDULE FOR DOOR ROUGH-IN REQUIREMENTS.	-
[Symbol]	DUPLEX RCPT. GFI - 20A/125V/2P/3W/G NEMA 5-20R	15" AFF	[Symbol]	CHIME/STROBE	80" AFF
[Symbol]	DUPLEX RCPT. GFI - 20A/125V/2P/3W/G NEMA 5-20R	15" AFF	[Symbol]	BELL/BUZZ	48" AFF
[Symbol]	QUADRUPLX RECEPTACLE (TWO DUPLEX RCPTS. UNDER ONE COVERPLATE)	15" AFF	[Symbol]	GLASS BREAK MOTION SENSOR	-
[Symbol]	ISOLATED GROUND DUPLEX RECEPTACLE - 20A/125V NEMA 5-20R	15" AFF	[Symbol]	DOOR CONTACTS	-
[Symbol]	DUPLEX RECEPTACLE WITH TWO USB PORTS LEVITON #15832	15" AFF	[Symbol]	KEYPAD	48" AFF
[Symbol]	FLOOR MOUNTED DUPLEX RECEPTACLE - FLUSH MOUNTED UNO	-	[Symbol]	CAMERA	1-1/2"
[Symbol]	SPECIAL PURPOSE RECEPTACLE (NEMA NO. AS INDICATED)	15" AFF	[Symbol]	CARD READER - REFER TO DESCRIPTION IN DOOR HARDWARE SPECIFICATION SECTION.	48" AFF
[Symbol]	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED	AS REQD.	ELECTRICAL ABBREVIATIONS		
[Symbol]	MULTIOUTLET ASSEMBLY - LENGTH AND OUTLET SPACING AS INDICATED	AS NOTED	AFF	ABOVE FINISHED FLOOR	NL
[Symbol]	TELEPHONE, DATA AND TELEPHONE/DATA OUTLET, WALL MOUNTED - STUB 1" C. ABOVE CEILING FROM OUTLET BOX	15" AFF	BFC	BELOW FINISHED CEILING	NO (N.O.)
[Symbol]	FLOOR MOUNTED DATA/TELEPHONE OUTLET - FLUSH MOUNTED UNO	-	C	CONDUIT	RCPT(S) RECEPTACLE(S)
[Symbol]	TELEVISION OUTLET, CLG. OR WALL MOUNTED - STUB 3/4" C. ABOVE CEILING FROM OUTLET BOX	15" AFF	CB	CIRCUIT BREAKER	PNL PANEL
[Symbol]	PUSHBUTTON	48" AFF	EC	EMPTY CONDUIT	SD (S.O.) SPACE ONLY
[Symbol]	CLOCK HANGER OUTLET 15A/125V/2P/3W/G RECEPTACLE	96" AFF	EX	EXISTING	SP SPARE
[Symbol]	WIRELESS ACCESS POINT	-	F	FUSE	ST (S.T.) SHUNT TRIP
[Symbol]	FIRE ALARM PULL STATION	48" AFF	G	GROUND (EQUIPMENT)	SW SWITCH
[Symbol]	FIRE ALARM AUDIBLE/VISUAL SIGNAL	80" AFF	GFI	GROUND FAULT INTERRUPTER	UF UNDERFLOOR
[Symbol]	FIRE ALARM AUDIBLE SIGNAL	80" AFF	IC	INTERRUPTING CAPACITY	UG UNDERGROUND
[Symbol]	FIRE ALARM VISUAL SIGNAL	80" AFF	IG	ISOLATED GROUND	UNO(UN.O.) UNLESS NOTED OTHERWISE
[Symbol]	SPEAKER VOICE EVAC SYSTEM	80" AFF	MTD	MOUNT OR MOUNTED	WG WIRE GUARD
[Symbol]	VOICE EVAC SYSTEM	-	NC (N.C.)	NORMALLY CLOSED	WP WEATHERPROOF
			NE	NONFUSED	XFMR TRANSFORMER
			NIC	NOT IN CONTRACT	ABS ABOVE BACK SPLASH

## B ELECTRICAL LEGEND

SCALE: N.T.S.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE			
MECHANICAL EQUIPMENT	CIRCUIT DESIGNATION	LOCATION	NOTES
AHU-1	A1-2,4	STORAGE 108	1 60/-/2 DISCONNECT, 2#5, #10G, 3/4"
ACCU-1	A1-6,8	EXTERIOR	1 60/-/2 NEMA 3R DISCONNECT, 2#8, #10G, 3/4"
EF-1	A-5	LOCKER/SHOWER	2 2#12, #12G, 1/2"
EF-2	A-5	RR 105	2 2#12, #12G, 1/2"
WH-1	A1-10,12	SHOP 102	30/-/2 DISCONNECT, 2#10, #10G, 1/2"

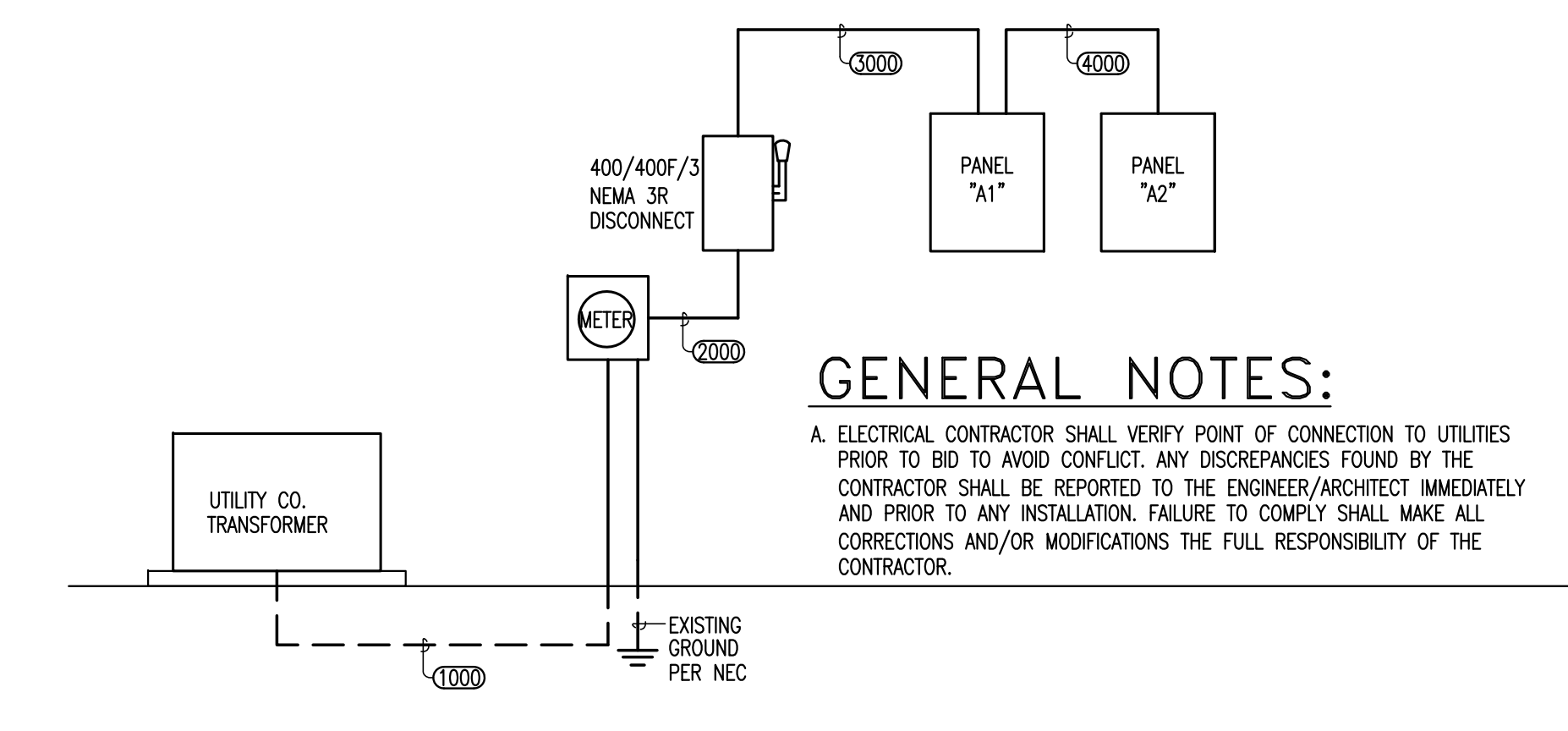
DISCONNECTING MEANS AND/OR BRANCH CIRCUIT SIZE

GENERAL NOTES:  
A. ALL DISCONNECTS AND COMBINATION STARTERS ARE NEMA 1 ENCLOSED, UNO.  
B. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DV. 15 AND FURNISH AND INSTALL POWER FOR CONTROLS.

NOTES:  
1. EXISTING DUCT SMOKE DETECTOR AT SUPPLY & RETURN DUCT.  
2. EXHAUST FAN SHALL BE SWITCHED WITH LIGHTS.

## C ELECTRICAL - MECHANICAL EQUIPMENT CONNECTION SCHEDULE

SCALE: N.T.S.



## D ELECTRICAL RISER DIAGRAM

SCALE: N.T.S.

## E ELECTRICAL FEEDER / BRANCH CIRCUIT SCHEDULE

SCALE: N.T.S.

MARK	RACEWAY	PHASE CONDUCTORS	NEUTRAL CONDUCTORS	GROUND CONDUCTORS	REMARKS
1000	2"	3#5/0	1#5/0	1#3	TWO PARALLEL FEEDERS REQUIRED
2000	2"	3#5/0	1#5/0	1#3	TWO PARALLEL FEEDERS REQUIRED
3000	2"	3#5/0	1#5/0	1#3	TWO PARALLEL FEEDERS REQUIRED

## F ELECTRICAL LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER & MODEL #	LAMPS/TEMP/VA	VOLTAGE	REMARKS
A	2'x4 LAY-IN TROFFER #12 PATTERN ACRYLIC 0.125" THICK ELECTRONIC BALLAST	LITHONIA #2GT 3 32 A12125 MVOLT GEB10S	3-F32T8 3500K 88	120/277	1
AE	2'x4 LAY-IN TROFFER #12 PATTERN ACRYLIC 0.125" THICK EMERGENCY BATTERY PACK	LITHONIA #2GT 3 32 A12125 MVOLT GEB10S EL14	3-F32T8 3500K 88	120/277	1
B	2'x4 LAY-IN TROFFER #12 PATTERN ACRYLIC 0.125" THICK ELECTRONIC BALLAST	LITHONIA #2GT 2 32 A12125 MVOLT GEB10S	2-F32T8 3500K 58	120/277	
BE	2'x4 LAY-IN TROFFER #12 PATTERN ACRYLIC 0.125" THICK EMERGENCY BATTERY PACK	LITHONIA #2GT 2 32 A12125 MVOLT GEB10S EL14	2-F32T8 3500K 58	120/277	
C	2'x4 LAY-IN TROFFER #12 PATTERN ACRYLIC 0.125" THICK, GRD ADAPTER ELECTRONIC BALLAST	LITHONIA #2GT 2 32 A12125 MVOLT GEB10S DG424	2-F32T8 3500K 58	120/277	
CE	2'x4 LAY-IN TROFFER #12 PATTERN ACRYLIC 0.125" THICK, GRD ADAPTER ELECTRONIC BALLAST	LITHONIA #2GT 2 32 A12125 MVOLT GEB10S EL14 DG424	2-F32T8 3500K 58	120/277	
D	LED HIGH BAY FIXTURE WIDE DISTRIBUTION	LITHONIA #BL 18L WD LP840 METALUX #HBLD-LD4-18-W-UNV-L840-CD2 GE ABV1-0-2-T-47-1-N-V-ST-XX-W	LED 4000K 192	120/277	
DE	LED HIGH BAY FIXTURE WIDE DISTRIBUTION EMERGENCY BATTERY PACK	LITHONIA #BL 18L WD LP840 I2412 METALUX #HBLD-LD4-18-W-UNV-L840-EL7W-CD2 GE ABV1-0-2-T-47-1-N-V-ST-XX-W-EL1	LED 4000K 192	120/277	
F	6" RECESSED DOWNLIGHT WET LOCATION	LITHONIA #LDN6 40/10 L06 AR 277 WL	LED 4000K 19	120/277	
G	16' HVLFS VAN COORDINATE LOCATION OF CONTROLLER WITH OWNER PRIOR TO ROUGH IN	BAS #POWERFOIL X2.0		208/3	
SA	WALL MOUNTED ARCHITECTURAL WALL SCONCE	LITHONIA #WSR LED 2 10A700/40K SR3 MVOLT XX	LED 4000K 47	120/277	
X	UNIVERSAL EXIT LIGHT WITH BATTERY PACK	LITHONIA #LQMSWR120/277ELN	LED'S FURNISHED	120/277	

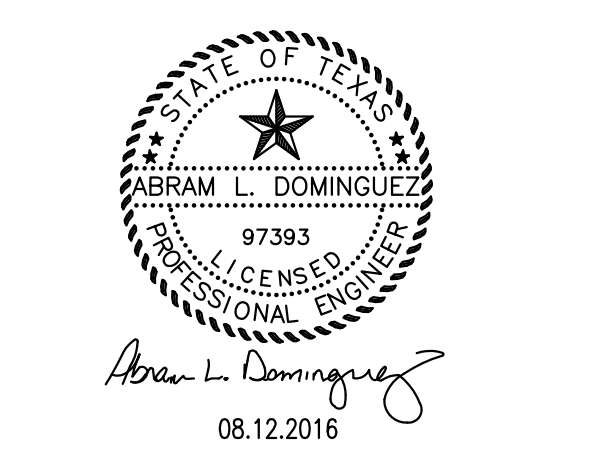
## F ELECTRICAL LIGHTING FIXTURE SCHEDULE

SCALE: N.T.S.



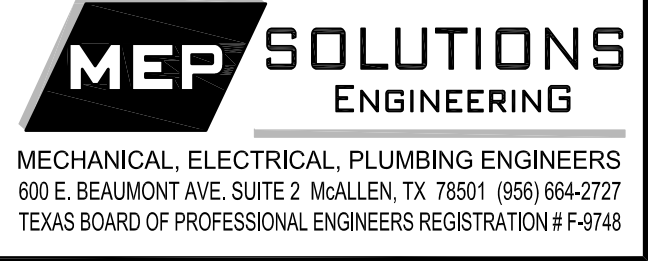
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REVISION	DATE	DESCRIPTION



PROPOSED  
**HIDALGO COUNTY PCT. 2 COUNTY WIDE SERVICE SHOP**  
 4011 S. VETERANS BLVD. SAN JUAN, TEXAS 78589

PROJECT 1341501  
 DATE 08/12/2016  
 REVISED

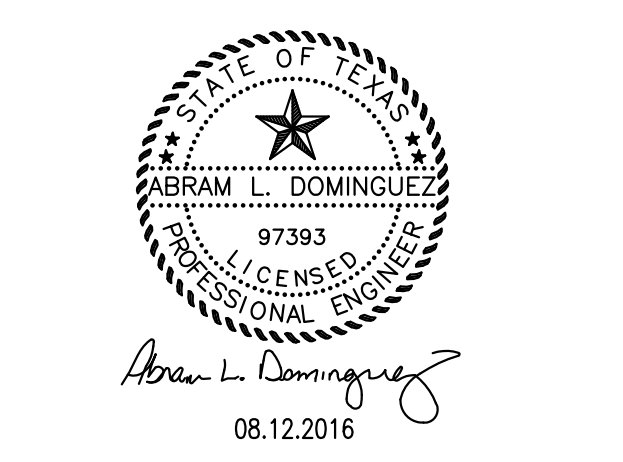


## E2.01 ELEC SPECS, RISER DIAGRAM LEGEND & SCH



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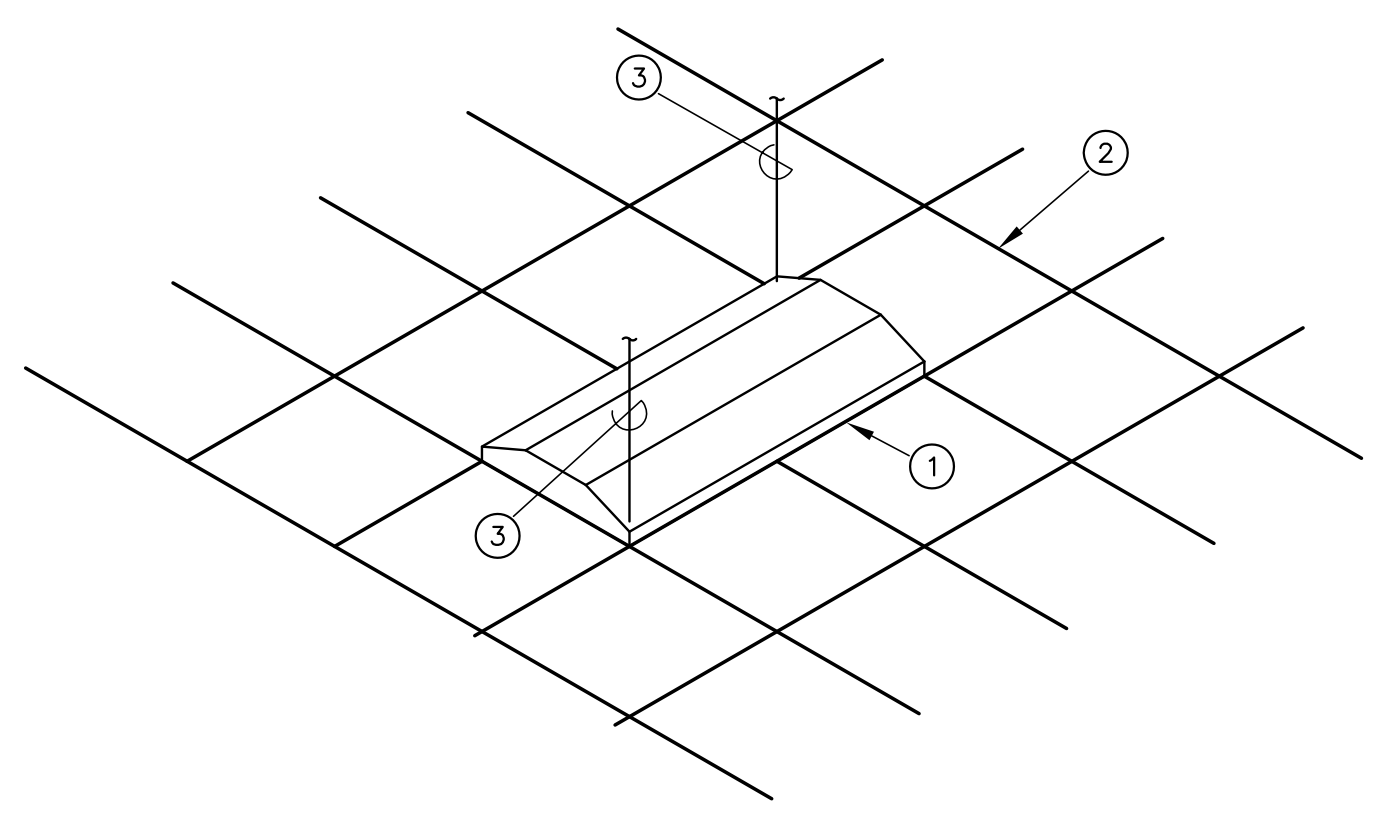
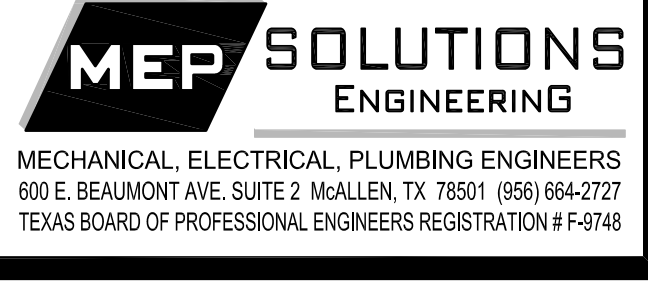
REVISION	DATE	DESCRIPTION



PROPOSED  
**HIDALGO COUNTY**  
**PCT. 2**  
**COUNTY WIDE**  
**SERVICE SHOP**  
 4011 S. VETERANS BLVD.  
 SAN JUAN, TEXAS 78589

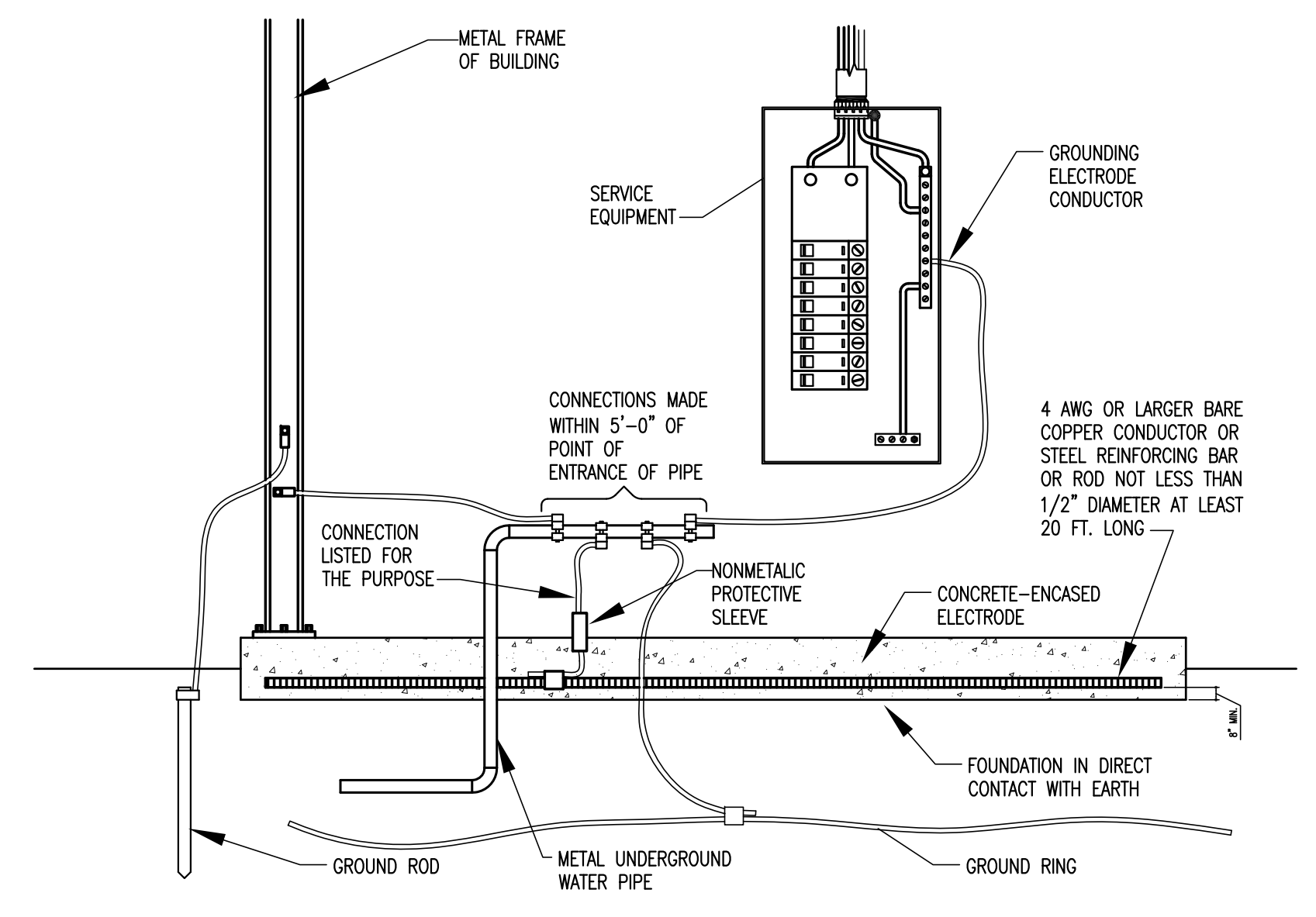
PROJECT	1341501
DATE	08/12/2016
REVISED	

**E4.01**  
**ELECTRICAL**  
**DETAILS**

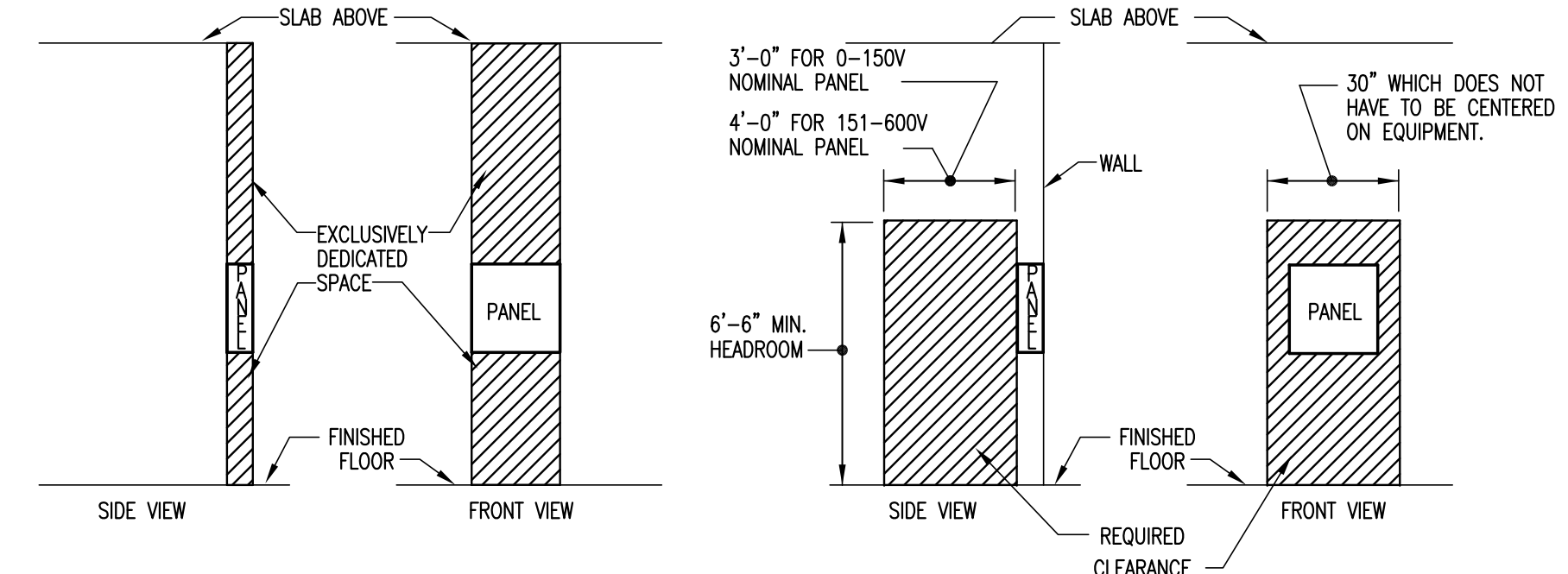


- NOTES BY SYMBOL " O "
- ① 2"x 4" LAY-IN FLUORESCENT FIXTURE
  - ② SUSPENDED CEILING
  - ③ THE WIRE, CONNECT TO TWO CORNERS OF FIXTURE TO STRUCTURE ABOVE, INDEPENDENT OF CEILING SUPPORTS.

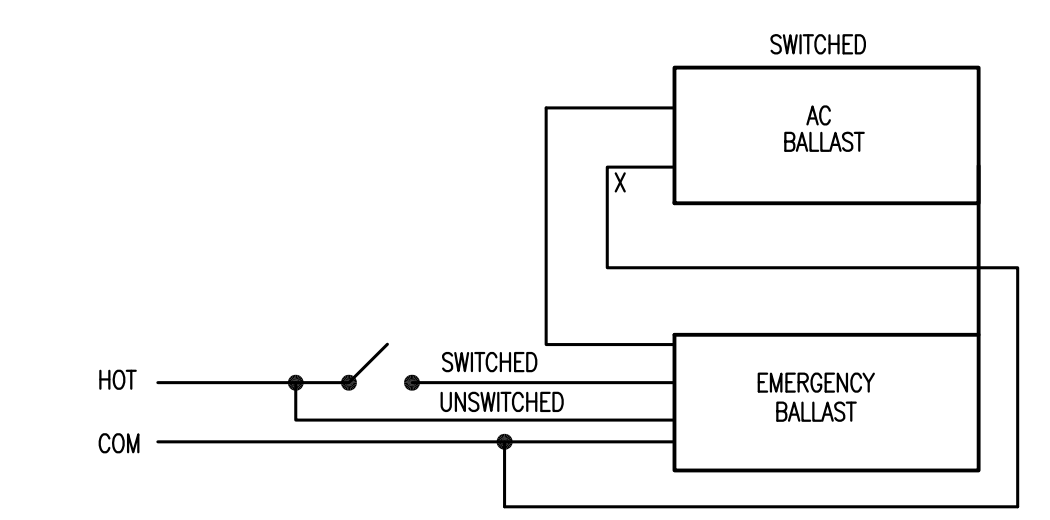
**C** TYPICAL LAY-IN FIXTURE SUPPORT  
 SCALE: N.T.S.



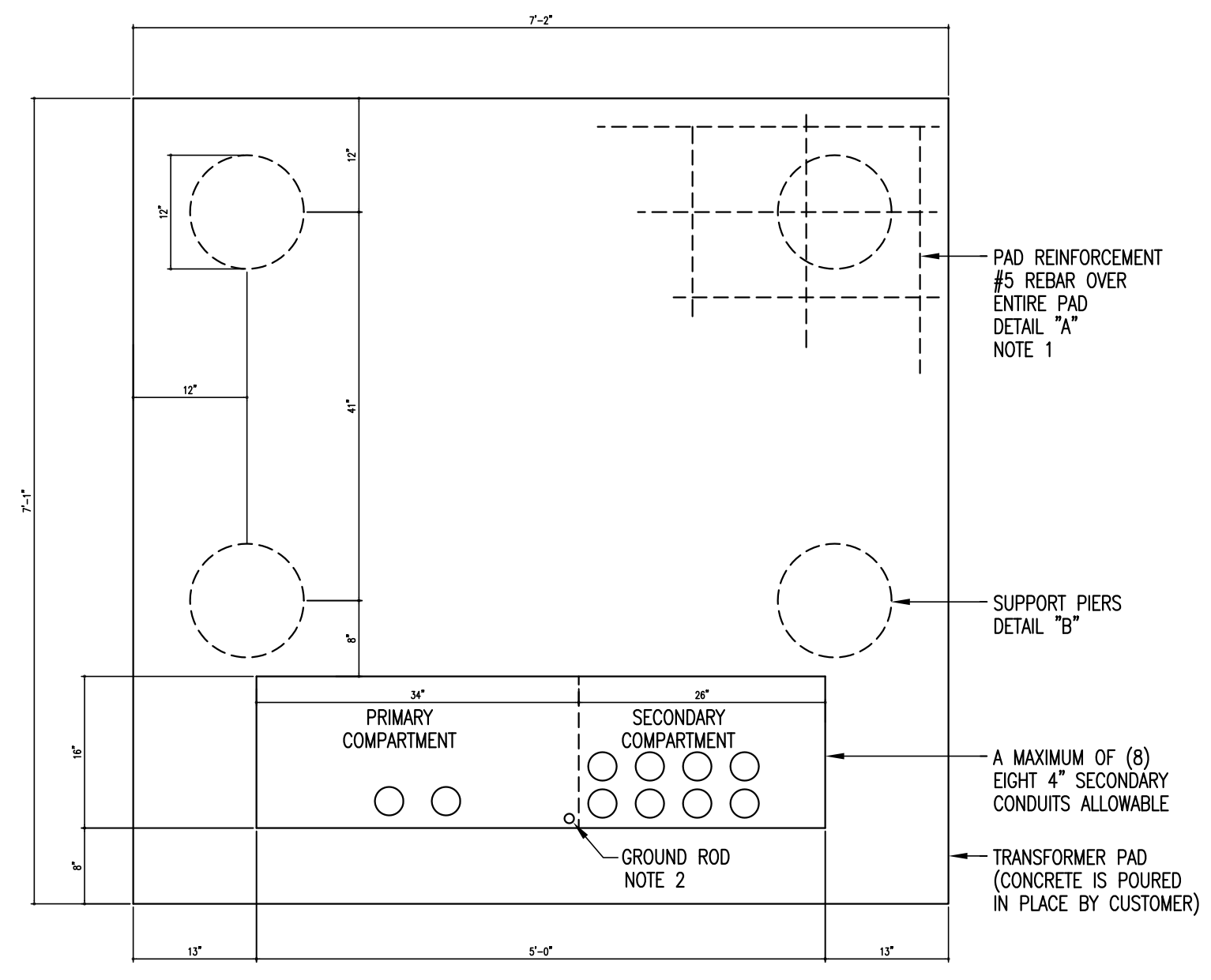
**B** GROUNDED ELECTRODE SYSTEM DETAIL  
 SCALE: N.T.S.



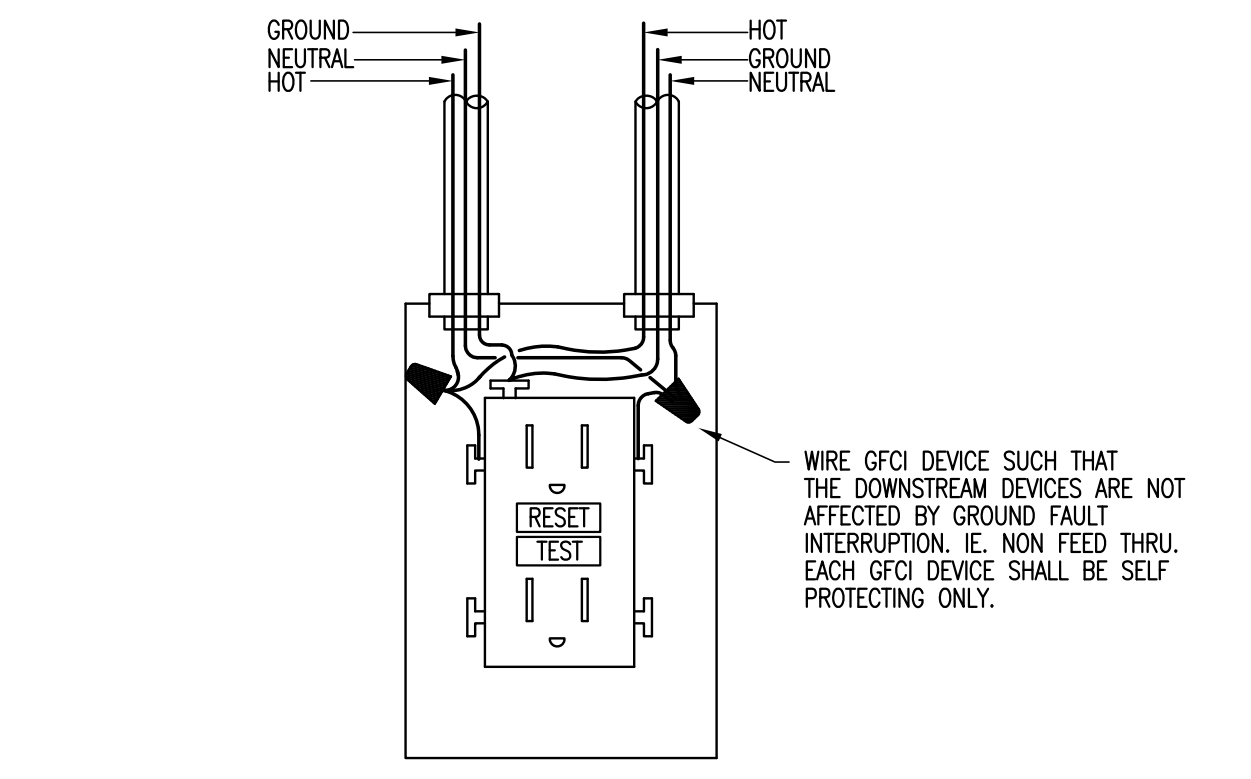
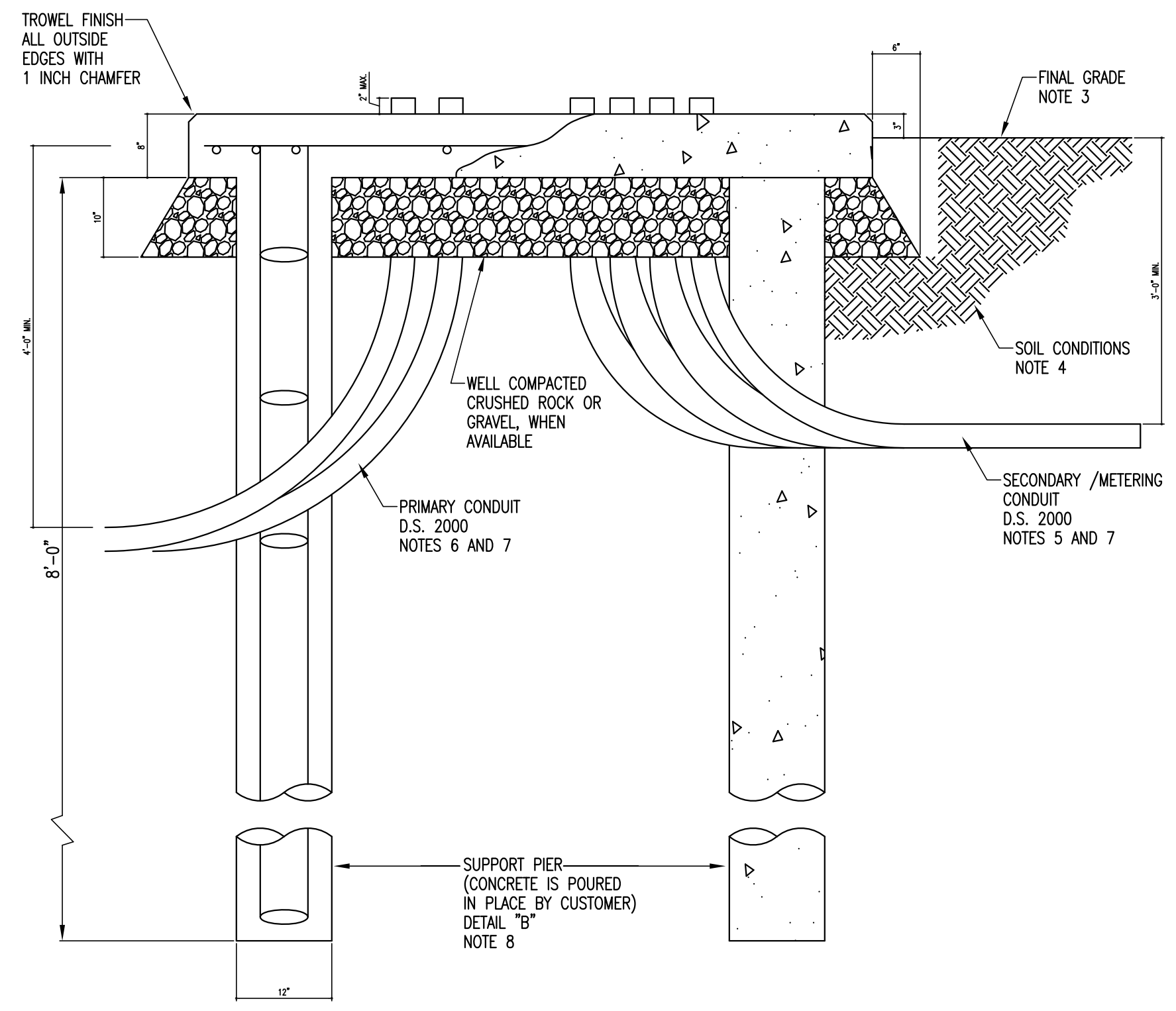
**D** TYPICAL PANELBOARD REQUIRED CLEARANCE  
 SCALE: N.T.S.



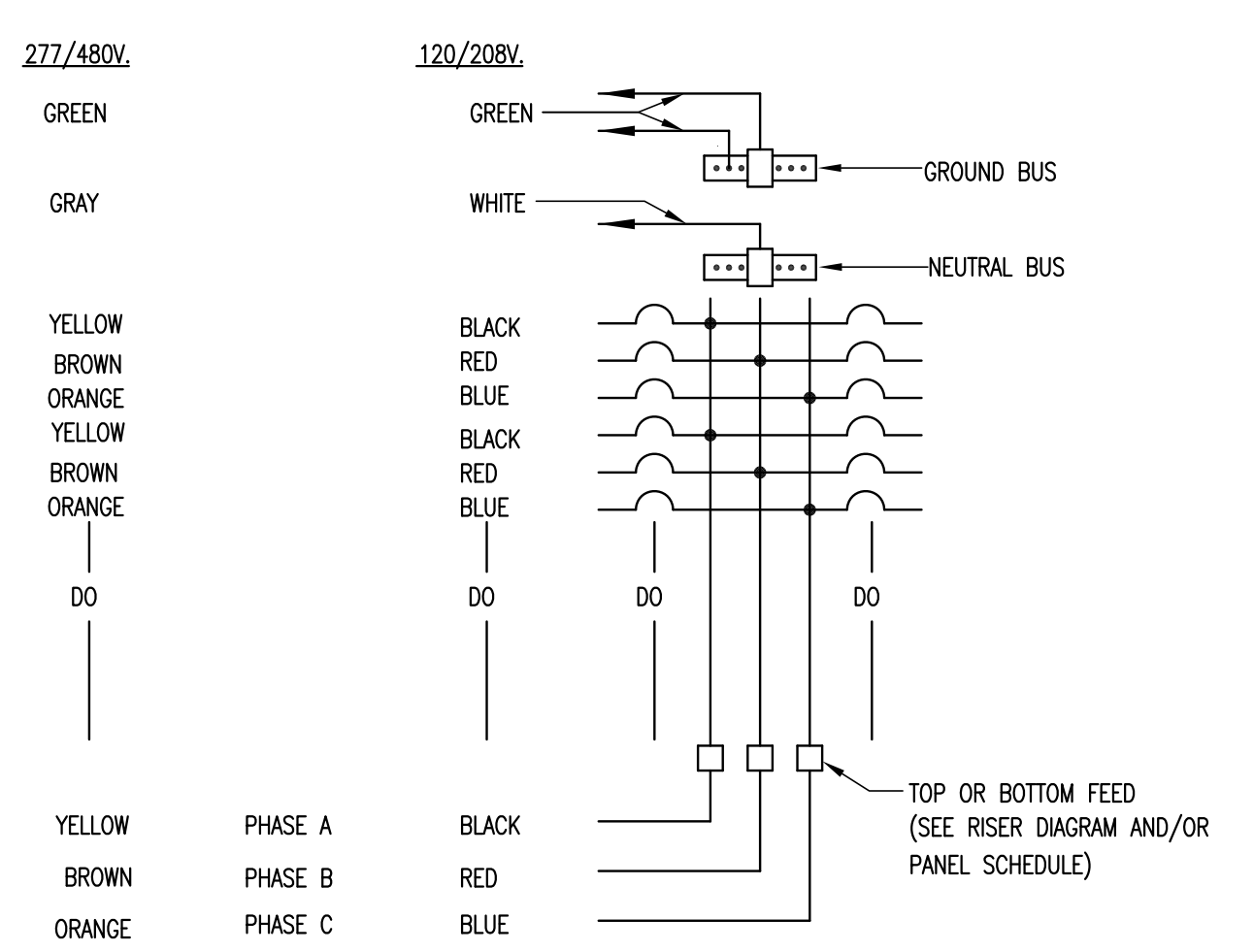
**E** EMERGENCY BALLAST WIRING DETAIL  
 SCALE: N.T.S.



**A** CONC. PAD AND PIERS FOR THREE PHASE PAD MOUNTED TRANSFORMER  
 SCALE: N.T.S.



**F** GFCI RECEPTACLE - WIRING DIAGRAM  
 SCALE: N.T.S.



**G** TYPICAL PANEL COLOR DETAIL  
 SCALE: N.T.S.

PLUMBING CONTRACTOR SHALL COORDINATE DOMESTIC WATER AND SANITARY SEWER LINE DIRECTION OF FLOW, SIZE, INVERT, AND POINT OF CONNECTION WITH EXISTING CONDITIONS PRIOR TO INSTALLATION OF ROUGH-IN TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

**GENERAL NOTES: ( )**

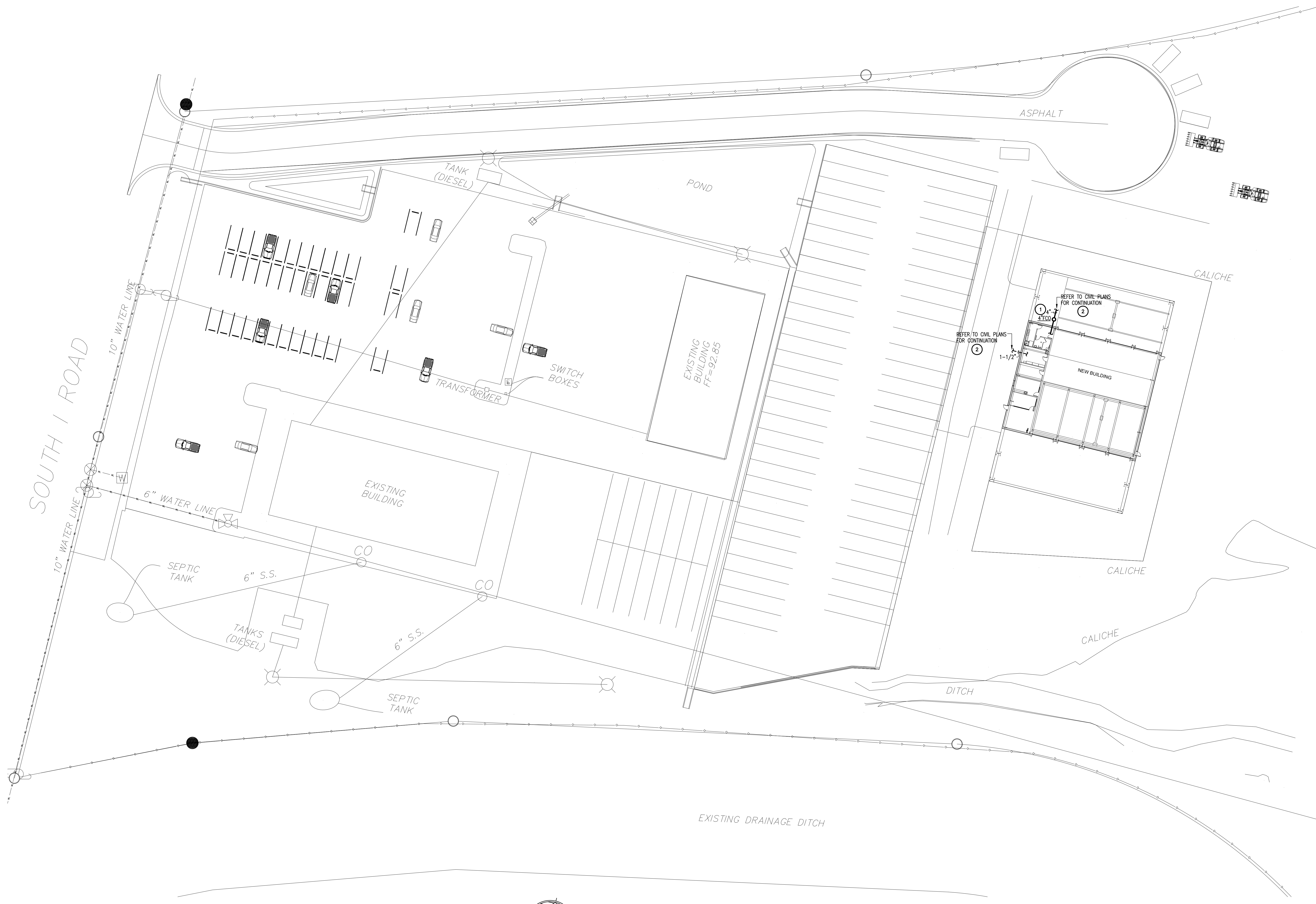
(A) INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ENGINEER.

**KEYED NOTES: O**

- ① PROPOSED 4" SEWER LINE. REFER TO CIVIL PLAN FOR EXACT LOCATION.
- ② PLUMBING CONTRACTOR SHALL VERIFY POINT OF CONNECTION TO UTILITIES PRIOR TO BID TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

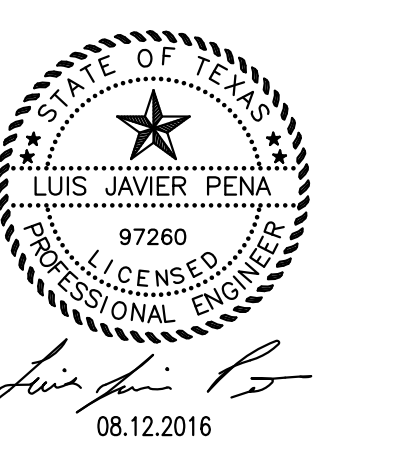
**TWG**  
THE WARREN GROUP  
ARCHITECTS, INC.  
1801 SOUTH SECOND ST. SUITE  
330  
McALLEN, TX 78503  
956.994.1900  
twgarch.com

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**A PLUMBING SITE PLAN**  
 SCALE: 1" = 30'-0"

REVISION	DATE	APPROVED BY	DESCRIPTION



PROPOSED  
**HIDALGO COUNTY  
PCT. 2  
COUNTY WIDE  
SERVICE SHOP**  
4011 S. VETERANS BLVD.  
SAN JUAN, TEXAS 78589

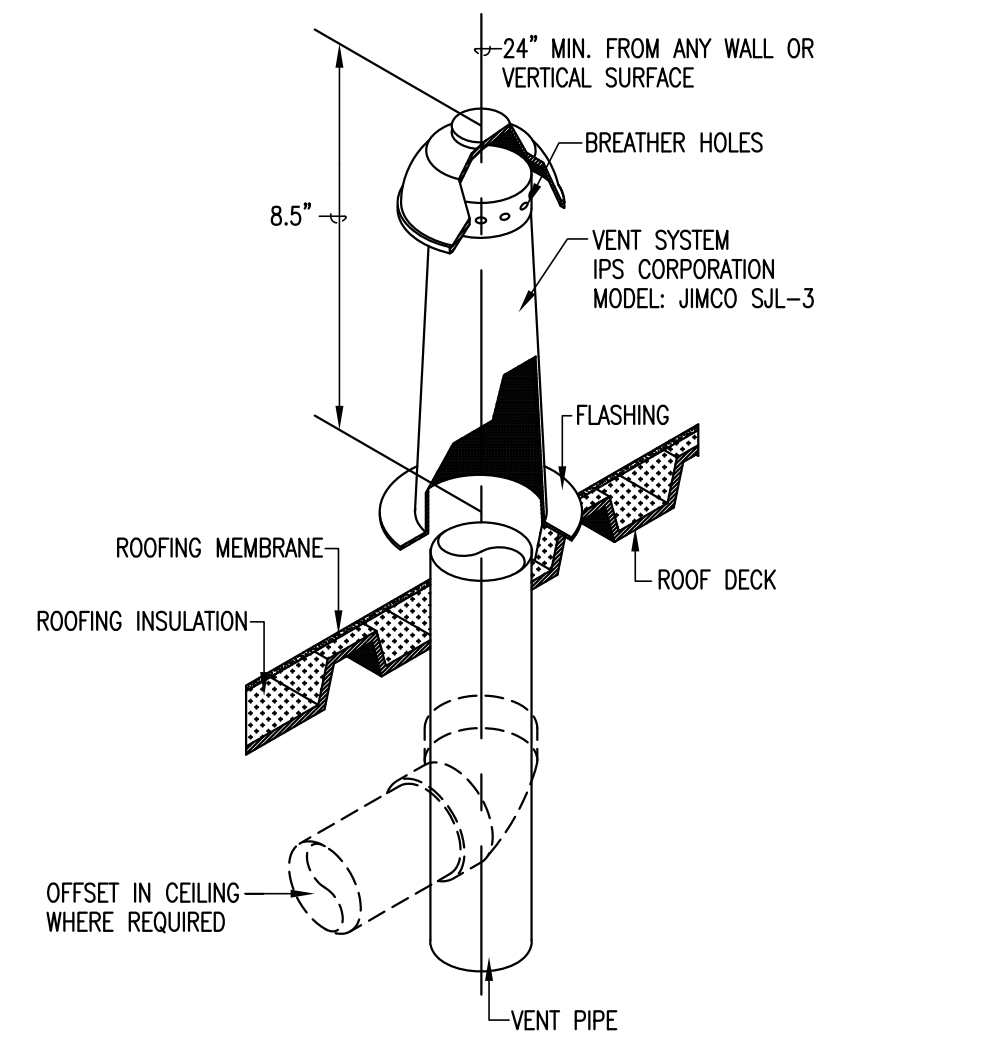
PROJECT	1341501
DATE	08/12/2016
REVISED	

**MEP SOLUTIONS**  
ENGINEERING  
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS  
600 E. BEAUMONT AVE. SUITE 200 McALLEN, TX 78501 (956) 664-2727  
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-6748

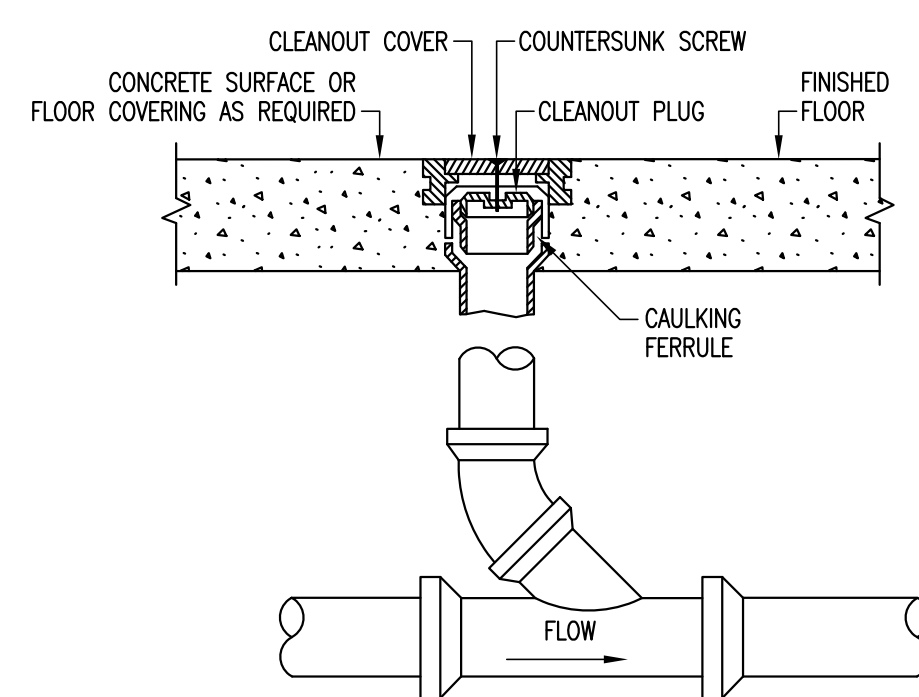
P1.00

PLUMBING  
SITE PLAN

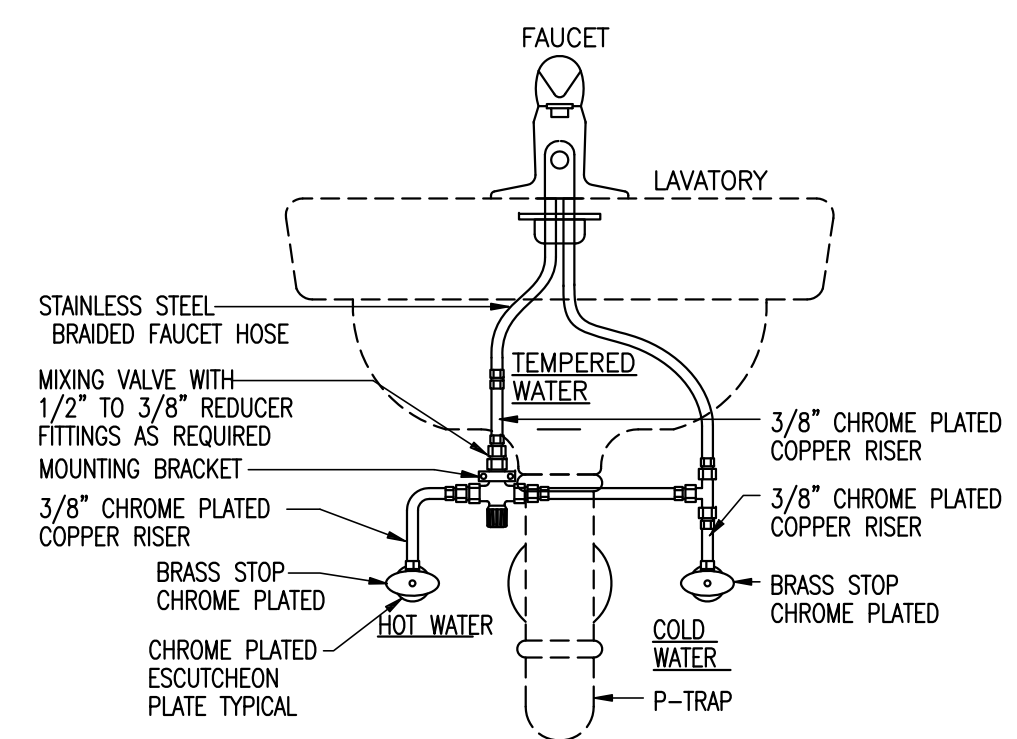




**A VENT THROUGH ROOF DETAIL**  
SCALE: N.T.S.

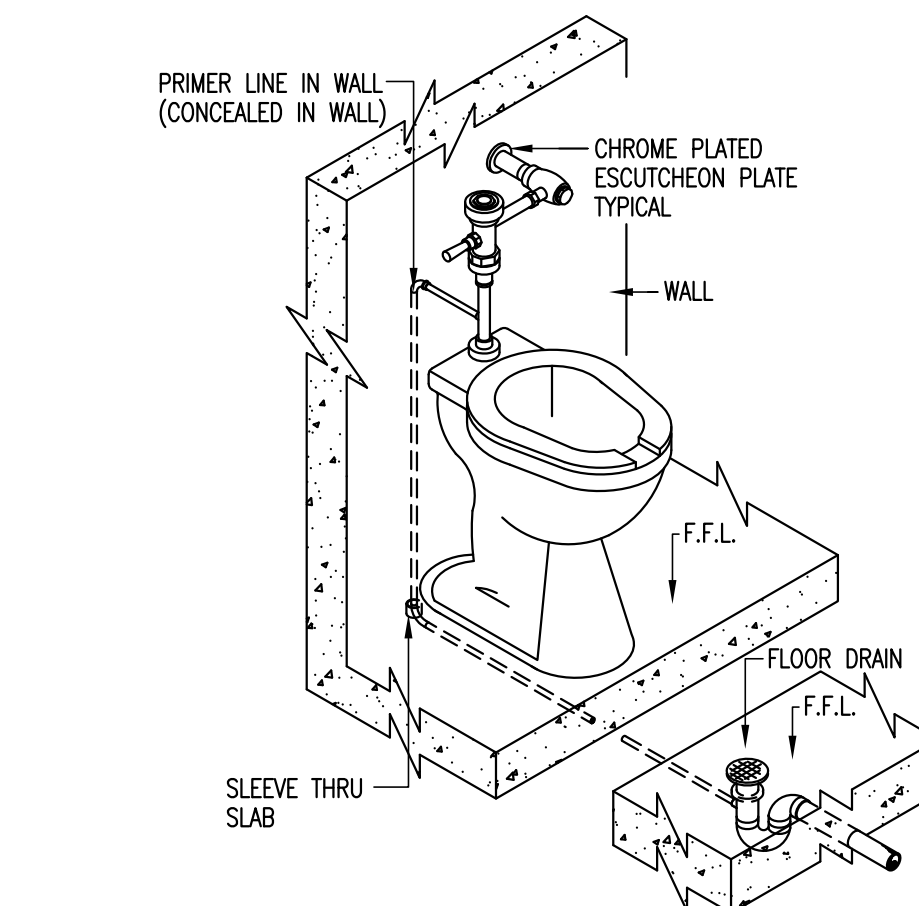


**B FLOOR CLEANOUT DETAIL**  
SCALE: N.T.S.

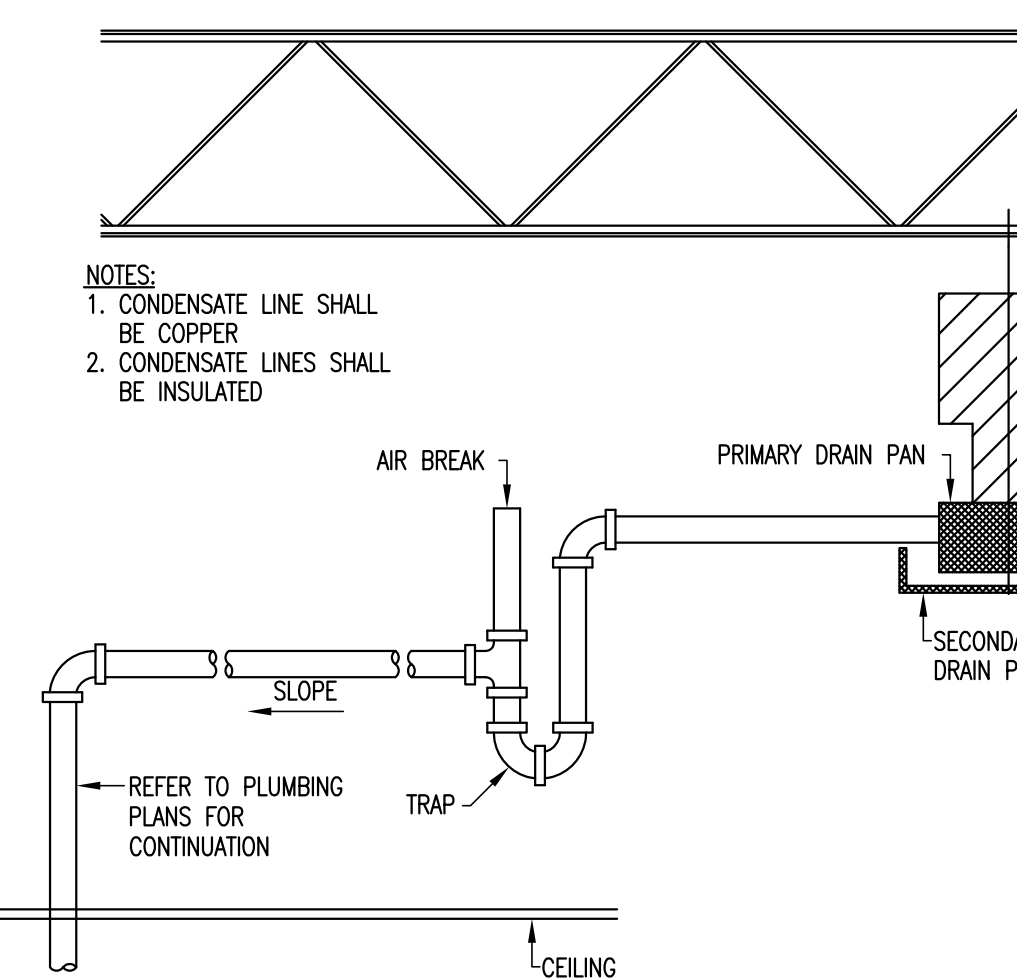


- NOTE:**
- MIXING VALVE AND WATER LINES SHALL BE INSTALLED BETWEEN WALL AND P-TRAP TAILPIECE
  - PROVIDE AND INSTALL COVER KIT FOR P-TRAP AND STOPS.
  - FIELD INSULATE MIXING VALVE AND PIPING FROM MIXING VALVE TO FAUCET CONNECTION. SOCKET INSULATION TO MATCH TRAP COVER KIT.
  - PROVIDE AND INSTALL REQUIRED 1/2" TO 3/8" REDUCERS AND CONNECTION FITTINGS.

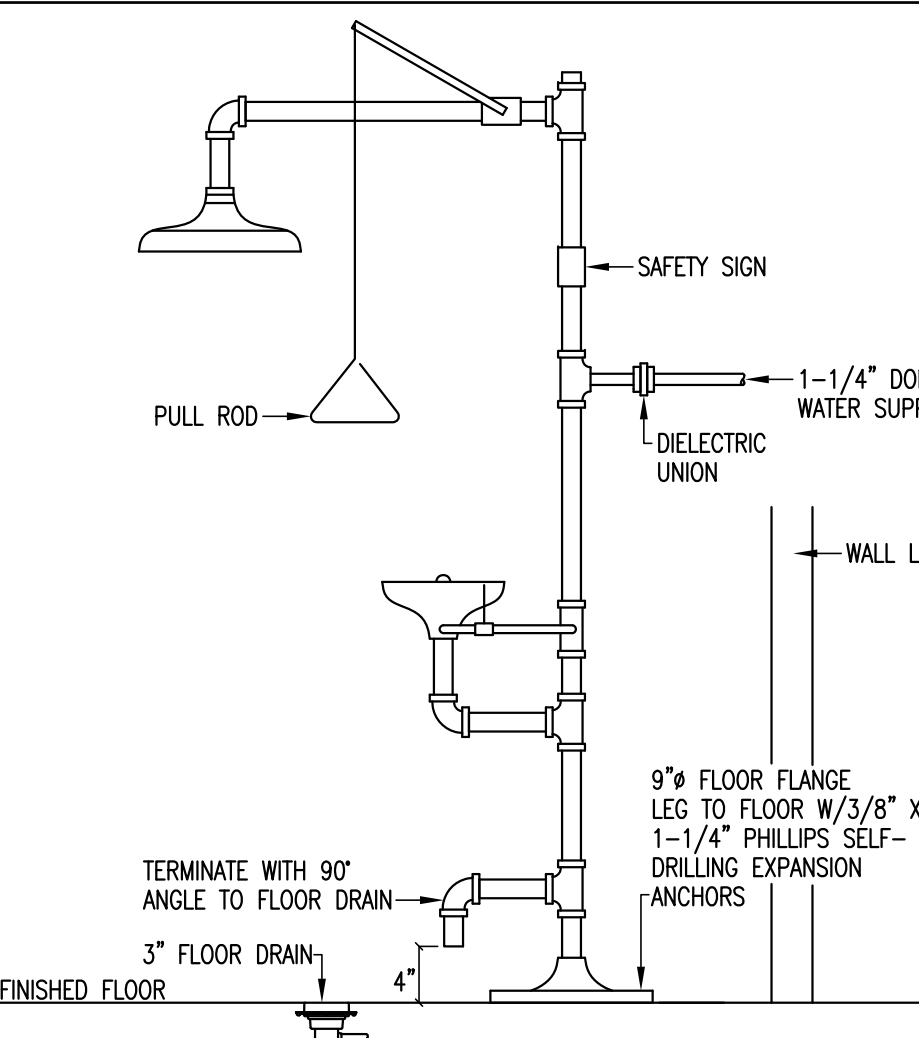
**C MIXING VALVE UNDER LAV DETAIL**  
SCALE: N.T.S.



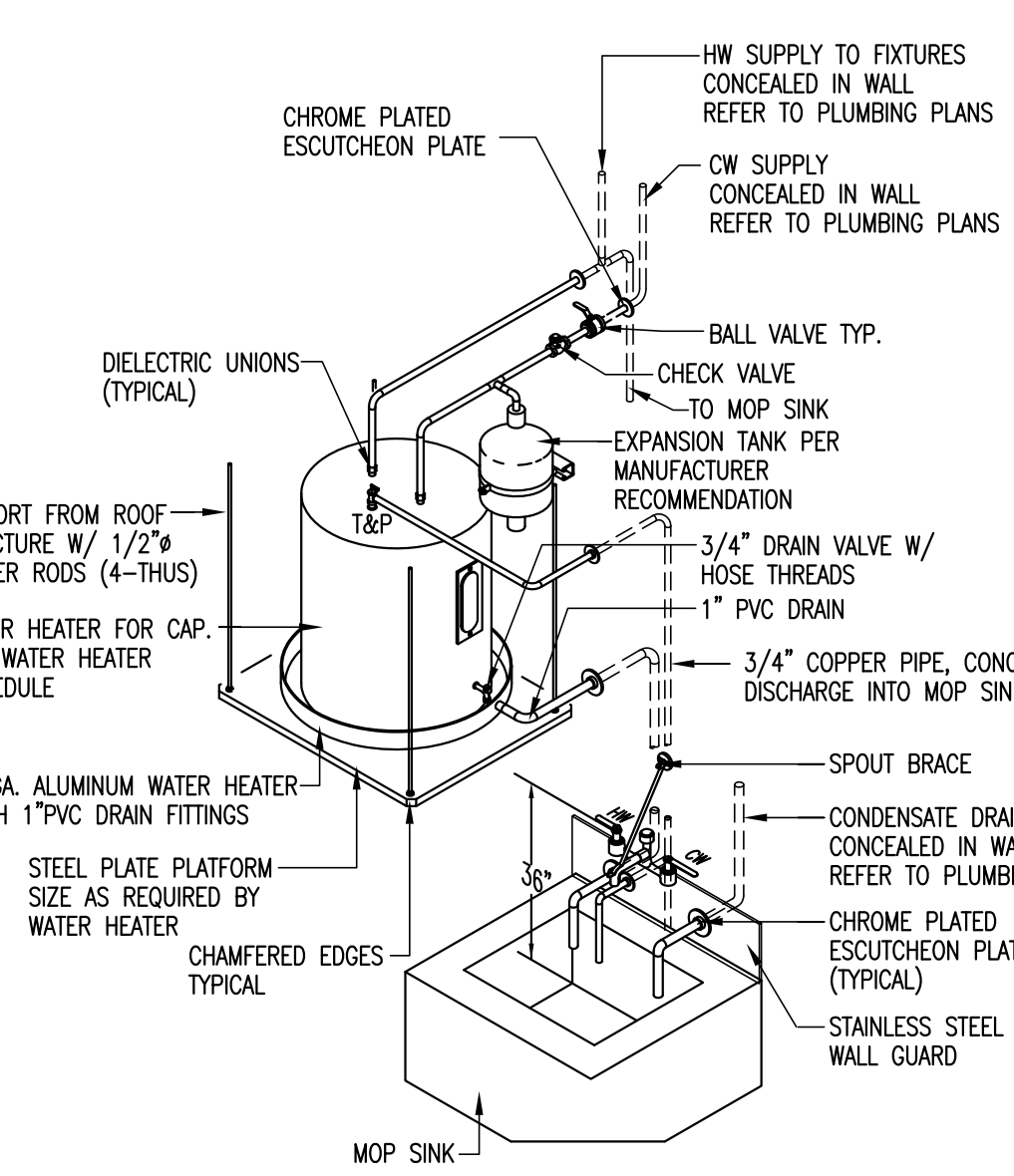
**D FLUSH VALVE TRAP PRIMER DETAIL**  
SCALE: N.T.S.



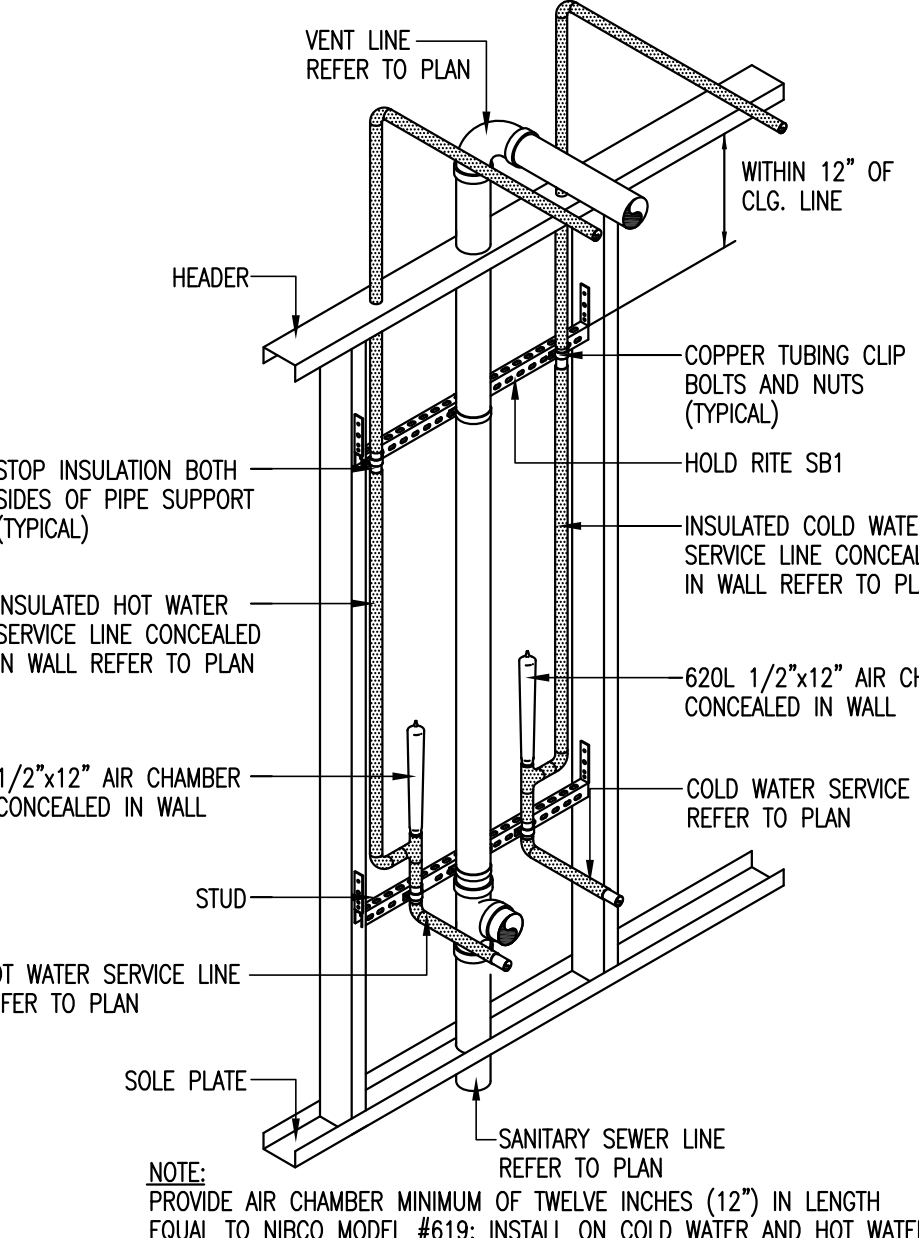
**E SUSPENDED AIR HANDLER CONDENSATE DRAIN DETAIL**  
SCALE: N.T.S.



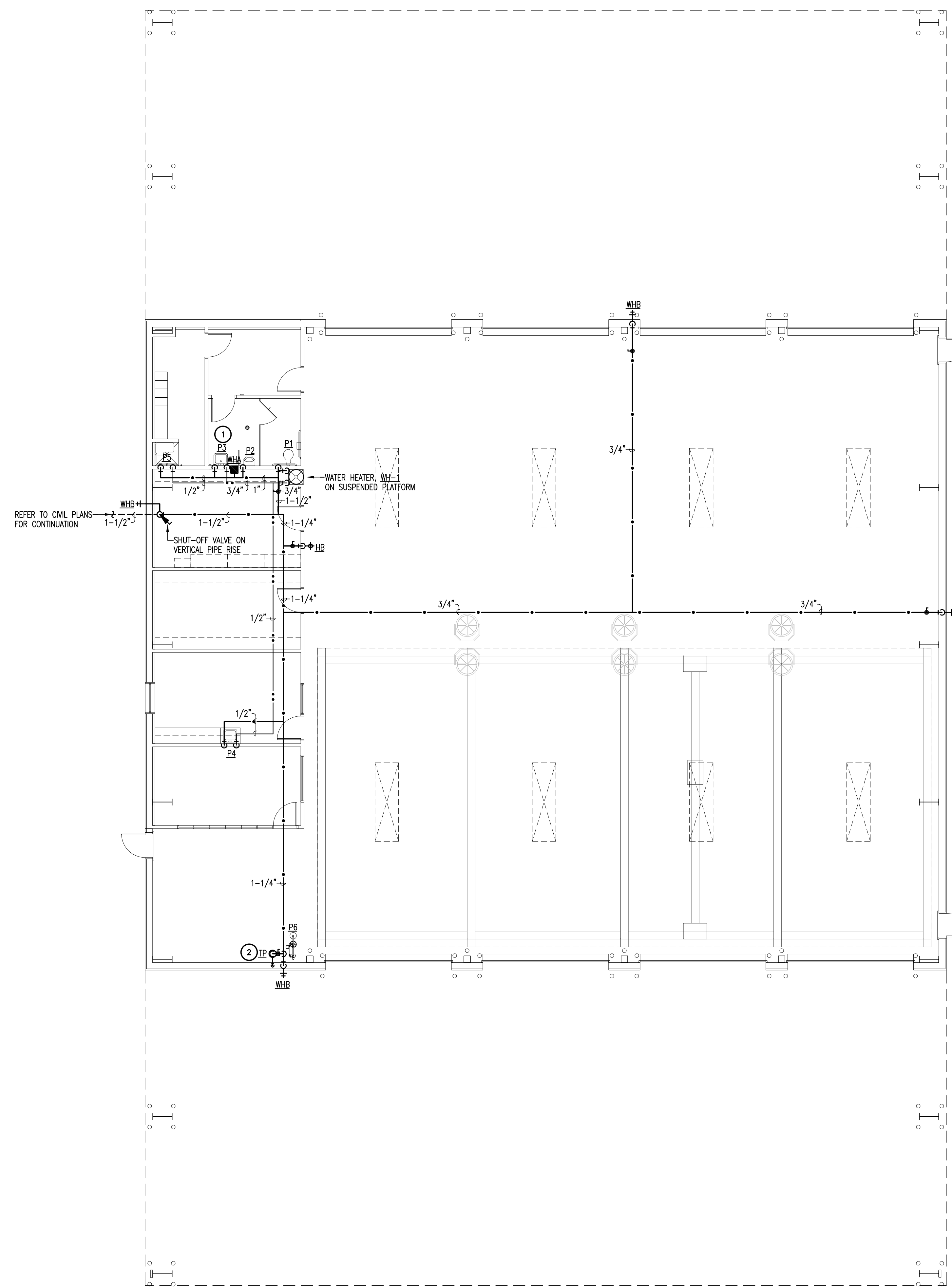
**E EMERGENCY SHOWER/EYEWASH DETAIL**  
SCALE: N.T.S.



**F WATER HEATER MOUNTED ABOVE MOPSINK DETAIL**  
SCALE: N.T.S.



**G PLUMBING FIXTURE INSTALLATION DETAIL**  
SCALE: N.T.S.



**A PLUMBING HW/CW FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

**GENERAL NOTES:** ( )

- INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ENGINEER.
- PLUMBING CONTRACTOR SHALL ADHERE TO ALL CITY CODES, STATE CODES AND LOCAL CODES THAT HAVE AUTHORITY OVER THIS PROJECT.
- PLUMBING CONTRACTOR SHALL TERMINATE ALL WATER ROUGH-IN WITH SHUT-OFF VALVES BEFORE CONNECTING TO EQUIPMENT AND RELATED FIXTURES.
- PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY INSTALLATION OF PIPING AND DUCTWORK PRIOR TO BEGINNING OF CONSTRUCTION.
- INSULATE "P" TRAPS AND SUPPLIES AT HANDICAP LAVATORIES WITH INSULATION KIT.
- PROVIDE VACUUM BREAKER TO ALL FIXTURES WITH HOSE CONNECTION AND APPLIANCES WITH DIRECT CONNECTIONS TO DOMESTIC WATER.
- REFER TO ARCHITECTS DRAWINGS FOR MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES.
- PROVIDE CEILING ACCESS PANEL FOR WATER ISOLATION VALVES, IN OTHERWISE INACCESSIBLE AREAS. PROVIDE LOCKABLE HINGED ACCESS PANELS IN PUBLIC AREAS. PAINT PANELS TO MATCH SURROUNDING SURFACE.
- ALL VENTS THROUGH ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE ROOF. ALL VENTS SHALL BE MINIMUM OF 10' AWAY FROM ANY OUTSIDE AIR INTAKE.

**KEY NOTES:** O

- FIXTURE SHALL BE PROVIDED WITH THERMOSTATIC MIXING VALVE LOCATED UNDER PLUMBING FIXTURE EQUAL TO A LEONARD MODEL 170 WITH COLD WATER BY-PASS AND MOUNTING BRACKET. REFER TO DETAIL.
- TRAP PRIMER WITH 1/2" LINE LOCATED ABOVE CEILING. REFER TO DETAIL.

PLUMBING CONTRACTOR SHALL COORDINATE DOMESTIC WATER AND SANITARY SEWER LINE DIRECTION OF FLOW, SIZE, INVERT, AND POINT OF CONNECTION WITH EXISTING CONDITIONS PRIOR TO INSTALLATION OF ROUGH-IN TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

**TWGW**  
THE WARREN GROUP  
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1801 SOUTH SECOND ST. SUITE 330  
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REVISION	DATE	APPROVED BY	DESCRIPTION

STATE OF TEXAS  
LUIJ JAVIER PENA  
97260  
LICENSED PROFESSIONAL ENGINEER  
08.12.2016

PROPOSED  
**HIDALGO COUNTY  
PCT. 2  
COUNTY WIDE  
SERVICE SHOP**  
4011 S. VETERANS BLVD.  
SAN JUAN, TEXAS 78589

PROJECT 1341501  
DATE 08/12/2016  
REVISED

**MEP SOLUTIONS**  
ENGINEERING  
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS  
600 E. BEAUMONT AVE. SUITE 200 McALLEN, TX 78501 (956) 664-2727  
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-6748

**P1.02**  
PLUMBING HW/CW  
FLOOR PLAN

## PLUMBING SYSTEM – SECTION 15400

PIPING SYSTEMS—GENERAL: ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS, AND TO ALLOW FOR INSTALLATION OF OTHER WORK SUCH AS DUCTS AND ELECTRICAL CONDUIT. PROVIDE AN ISOLATING DIELECTRIC UNION AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING. ALL HANGERS SHALL BE COMPATIBLE WITH PIPING MATERIAL TO PREVENT CORROSION.

PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED.

SEWER, GREASE AND WASTE PIPING: PROVIDE ALL DRAINS AND SEWERS WITHIN THE SPACE WITH CONNECTION TO THE EXISTING DRAINAGE SYSTEMS ON-SITE. SANITARY DRAINAGE PIPING SHALL BE PVC TYPE DWV, PLASTIC PIPE AND FITTINGS WITH SOLVENT CEMENT JOINTS. ALL DRAINAGE PIPING SHALL BE UNIFORMLY PITCHED, 1/8" PER FOOT UNLESS OTHERWISE REQUIRED BY EXISTING CONDITIONS, OR INDICATED ON THE DRAWINGS. NO PVC DWV PIPING ALLOWED WITHIN CEILING VOIDS USED FOR NON-DUCTED RETURN AIR PLENUM. PVC DWV PIPING LOCATED IN RETURN AIR PLENUMS SHALL BE PROVIDED WITH FIRE-WRAP INSULATION.

VENTS: PROVIDE A COMPLETE SYSTEM OF PVC TYPE DWV, PLASTIC PIPE AND FITTINGS WITH SOLVENT CEMENTED JOINTS. THE VENT SYSTEM SHALL BE CARRIED THROUGH THE ROOF WITH APPROPRIATE FLASHING. PVC DWV PIPING LOCATED IN RETURN AIR PLENUMS SHALL BE PROVIDED WITH FIRE-WRAP INSULATION.

WATER DISTRIBUTION PIPING: LAYOUT WATER PIPING SO THAT THE ENTIRE SYSTEM CAN BE DRAINED. HOT AND COLD WATER PIPING SHALL BE 1/2" MINIMUM TYPE L COPPER TUBING WITH WROUGHT COPPER FITTINGS AND SWEAT CONNECTIONS. PROVIDE MINIMUM 16" HIGH FULL AIR CHAMBER AT EACH FIXTURE STOP. INSTALL CHROME PLATED BRASS ESCUTCHEON PLATES AT ALL PENETRATIONS THROUGH FINISHED SURFACES (INCLUDING CABINET INTERIORS). USE TIN-ANTIMONY SOLDER, 95/5 FOR ALL SWEAT FITTINGS OF COPPER PIPING.

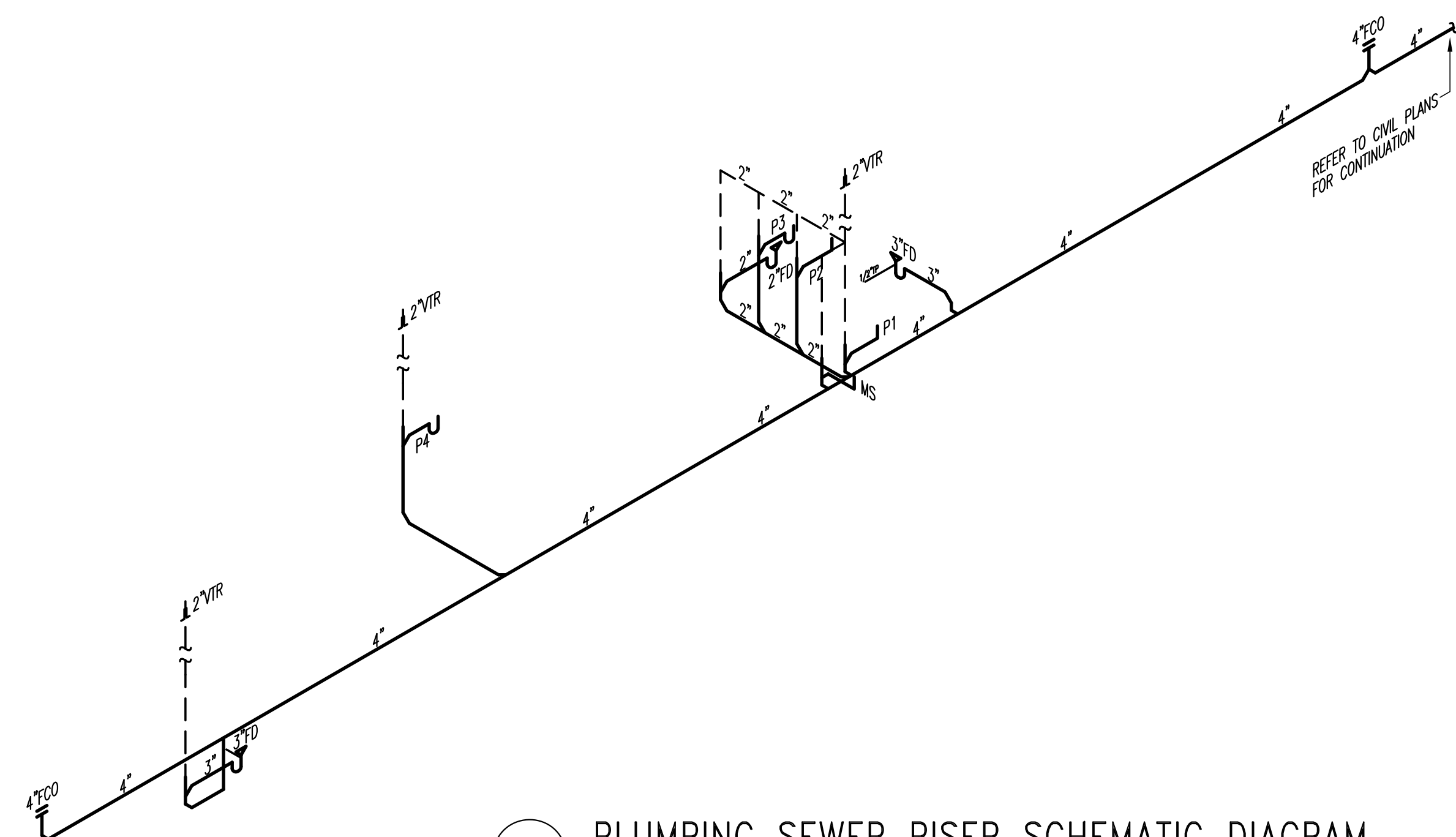
GAS PIPING: LAYOUT GAS DISTRIBUTION PIPING AS SHOWN ON PLANS. PROVIDE BLACK STEEL PIPE TYPE E OR S WITH STEEL THREADED FITTINGS. LOCATE DRIPS AND TRAPS IN AREAS WHERE CONDENSATE MAY COLLECT. INSTALL HANGERS AND SUPPORTS AS REQUIRED TO SECURE PIPING TO BUILDING. EXPOSED PIPING SHALL BE PAINTED BRIGHT YELLOW. TEST, INSPECT, AND PURGE PIPING PER REQUIREMENT OF AUTHORITIES HAVING JURISDICTION.

PIPE INSULATION: INSULATE ALL HOT WATER PIPING. PROVIDE 1/2" PREFORMED FIBERGLASS, ASJ-V6, FLAME SPREAD 25, SMOKE DEVELOPED 50, ASTM C-547. WHEN PERMITTED BY LOCAL CODE, PROVIDE 1/2" SELF-ADHESIVE UNCELLULAR FOAM PIPE INSULATION WITH PREFORMED PVC FITTING COVERS (EQUAL TO SELF-ADHESIVE ARMSTRONG 2000) WITH K FACTOR OF 0.27 AT 75°F MEAN TEMPERATURE. INSULATE ALL EXPOSED CONDENSATE PIPING WITH WASTE TEMPERATURES BELOW 60°F.

SHUTOFF VALVES WITH UNIONS SHALL BE PROVIDED FOR SERVICE TO EACH PLUMBING FIXTURE, FOOD SERVICE EQUIPMENT ITEM OR OTHER EQUIPMENT ITEM, TO FACILITATE ISOLATION FOR REPAIR OR REPLACEMENT. VALVES SHALL BE EQUAL TO JENKINS #902-T BALL VALVE, CHROME-FINISHED BRONZE, TEFLON SEATS AND PACKING, 400 LB. W.O.G., SOLDER END.

INSTALLATION: THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE. PROCEED AS RAPIDLY AS CONSTRUCTION WILL PERMIT. SET FIXTURES LEVEL AND IN PROPER ALIGNMENT. INSTALL SUPPLIES IN PROPER ALIGNMENT WITH FIXTURES. INSTALL SILICONE SEALANT BETWEEN FIXTURES AND ADJACENT MATERIAL FOR SANITARY JOINT, AND OMIT ESCUTCHEON.

TEST WATER SYSTEM UNDER 150 PSIG HYDROSTATIC PRESSURE, FOR A MINIMUM OF FOUR (4) HOURS. WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP IS DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED. PROVIDE A STATIC TEST OF DWV SYSTEM. REPAIR OR REPLACE LEAKS AS REQUIRED.



**A** PLUMBING SEWER RISER SCHEMATIC DIAGRAM  
SCALE: N.T.S.

## PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE TYPE (HANDICAP)	CONNECTION SIZE				DESCRIPTION
		SEWER	VENT	CW	HW	
P1	WATER CLOSET (HANDICAP)	4"	2"	1"	—	VITREOUS CHINA, ELONGATED RIM, FLOOR MOUNTED WATER CLOSET WITH 1-1/2" TOP SPUD. ZURN "ECONOMATE" MODEL "25665-BWL", 16-3/4" RIM HEIGHT, 1.6 GPM, 10" ROUGH-IN, SIPHON JET ACTION WITH SLOAN "ROYAL" FLUSH MODEL "111-TP" WITH TRAP PRIMER CONNECTION WHERE SHOWN ON PLANS, BENEKE MODEL "533" OPEN FRONT SEAT LESS COVER.
P2	URINAL (HANDICAP)	2"	2"	3/4"	—	VITREOUS CHINA, WALL HUNG, SIPHON JET ACTION WITH 3/4" TOP SPUD AND WALL HANGERS. MINIMUM 14" RIM TO WALL DISTANCE. EQUAL TO ZURN MODEL "25730" WITH SLOAN ROTAL "186-1" FLUSH VALVE AND APPROVED CARRIER SYSTEM.
P3	LAVATORY WALL HUNG (HANDICAP)	2"	2"	1/2"	1/2"	VITREOUS CHINA, WALL HUNG LAVATORY WITH HOLES ON 4" CENTERS EQUAL TO ZURN MODEL "25340". COMPLETE WITH LAVATORY FAUCET MOEN MODEL "8413F15", CHROME FINISH, SINGLE LEVER HANDLE, 1.5 GPM FLOW, ADA APPROVED, WITH CARRIER AND PROTECTIVE COVER ON P-TRAP.
P4	STAINLESS STEEL COUNTERTOP SINK (HANDICAP)	2"	2"	1/2"	1/2"	SINGLE COMPARTMENT STAINLESS STEEL SINK EQUAL TO ELKAY MODEL "L840-1919-60-3". SELF RIMMING, 19-1/2"x19"x6", 3 HOLES ON 4" CENTERS, 18 GAUGE, UNDERMOUNTED. COMPLETE WITH MOEN MODEL "8289" SWING GOOSENECK SPOUT, CHROMED METAL WRIST BLADE HANDLES, DECK MOUNT FAUCET AND "LK-35" STRAINER WITH BASKET.
P5	SHOWER (HANDICAP)	—	—	1/2"	1/2"	PRESSURE BALANCING SHOWER WITH INTEGRAL CHECK STOPS, AND ADJUSTABLE TEMPERATURE LIMIT STOPS EQUAL TO MOEN "PRO-TEMP" MODEL "8347". COMPLETE WITH HAND HELD SHOWER, 69" SHOWER HOSE, 30" SLIDE BAR, 1/2" CC CONNECTIONS, ADA COMPLIANT. POLISHED CHROME FINISH.
P6	COMBINATION UNIT SHOWER/EYEWASH	2"	2"	1-1/4"	—	COMBINATION DRENCH SHOWER AND EYE/FACE WASH, STAINLESS STEEL SHOWER HEAD AND BOWL EQUAL TO BRADLEY BARRIER FREE "S19-310B1" UNIT.
MS	MOP SINK FLOOR MOUNTED	2"	2"	3/4"	3/4"	TERRAZO, SQUARE MOP SINK EQUAL TO FIAT "TSPC-3010" 24"x24"x12" WITH 6" DROP FRONT, STAINLESS STEEL RIM GUARD AND "MS-2424" WALL GUARD. COMPLETE WITH MOEN MODEL "8124 CHROME" SERVICE SINK FAUCET WITH 8" CENTERS, PAIL HOOK, AND VACUUM BREAKER SPOUT. COMPLETE WITH "832-AA" HOSE AND BRACKET, "889-CC" STAINLESS STEEL MOP BRACKET AND GRID STRAINER.
WH-1	WATER HEATER	—	—	3/4"	3/4"	30 GALLON WATER HEATER SHALL BE EQUAL TO A RHEEM MODEL "ELDS30". IT SHALL BE 208V/1Ø 4.5KW WITH A RECOVERY OF 30 GALLONS PER HOUR @ 60°F RISE. PROVIDE AND INSTALL EXPANSION TANK AS PER MANUFACTURER RECOMMENDATIONS.
3FD	GENERAL DUTY FLOOR DRAIN	3"	2"	—	—	ZURN MODEL "Z-415-B" LACQUERED CAST IRON FLOOR DRAIN. FURNISH COMPLETE WITH "TYPE B" NICKEL BRONZE STRAINER AND 1/2" TRAP PRIMER CONNECTION.
2FD	SHOWER FLOOR DRAIN	2"	2"	—	—	ZURN MODEL "Z-415-B" LACQUERED CAST IRON FLOOR DRAIN. FURNISH COMPLETE WITH "TYPE B" NICKEL BRONZE STRAINER.
RIB	REFRIGERATOR ICE CONNECTION BOX	—	—	1/2"	—	GLY GRAY MODEL "BIM-875" ICE CONNECTION BOX.
HB	HOSE BIBB	—	—	3/4"	—	BACKFLOW PROTECTED WALL FAUCET EQUAL TO A WOODFORD MODEL "26-P" WITH POLISHED CHROME FINISH, 3/4" INLET, AND LOOSE TEE KEY.
WHB	WALL HYDRANT	—	—	3/4"	—	ZURN ELECTROL WALL HYDRANT MODEL "Z-1300" ENCASED, NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING HYDRANT FOR FLUSH WALL INSTALLATION COMPLETE WITH BACKFLOW PREVENTER, CLOSURE VALVE, NICKEL BRONZE BOX, HINGED COVER, KEY LOCK, AND "WATER" CAST ON COVER.
FCO	FLOOR CLEANOUT	4"	—	—	—	ZURN MODEL "ZN1400" LEVEL-TROL ADJUSTABLE FLOOR CLEANOUT WITH DURA-COATED CAST IRON BODY, GAS AND WATERTIGHT ABS TAPERED THREADED PLUG, AND ROUND SCORATED POLISHED NICKEL BRONZE TOP ADJUSTABLE TO FINISHED FLOOR.
WHA	WATER HAMMER ARRESTOR	—	—	—	—	WATER HAMMER ARRESTOR FOR SINGLE RESTROOM SHALL BE EQUAL TO WADE PISTON-TYPE SHOCKSTOPS MODEL #10-P, COPPER FINISH.

## PLUMBING SYMBOL LEGEND

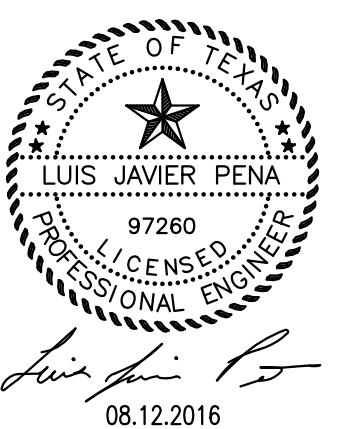
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	
—•—•—	DOMESTIC COLD WATER LINE	— — —	BALL VALVE	— — —	UNION	CW	COLD WATER	
—•••—	DOMESTIC HOT WATER LINE	— — —	BALANCING VALVE	— — —	BRANCH - TOP CONNECTION	DN	DOWN	
—••••—	DOMESTIC HOT WATER RETURN LINE	— — —	CHECK VALVE	— — —	PIPE RISER	F.F.E.	FINISH FLOOR ELEVATION	
—TW—	DOMESTIC TEMPERED WATER LINE	— — —	GATE VALVE	— — —	PIPE DROP	FU	FIXTURE UNITS	
—	SANITARY SEWER VENT LINE	— — —	FLOOR CLEANOUT	— — —	THERMOMETER	GW	GREASE WASTE	
—	SANITARY WASTE LINE	— — —	YARD CLEANOUT	— — —	DIRECTION OF FLOW	I.E.	INVERT ELEVATION	
—CD—	CONDENSATE LINE	— — —	FLOOR SINK	— — —	CALIBRATING VALVE	HW	HOT WATER	
—GW—	GREASE WASTE LINE	— — —	FLOOR DRAIN	— — —	WALL CLEANOUT	SS	SANITARY SEWER	
—GAS—	GAS LINE	— — —	ROOF DRAIN	— — —	PLUMBING RISER DESIGNATION	TP	TRAP PRIMER	
—AIR—	AIR LINE	— — —	POINT OF CONNECTION	— — —	PLUMBING DETAIL REFERENCE	TYP	TYPICAL	
—AW—	ACID WASTE LINE	— — —	WALL HYDRANT	— — —	ABV. CLG.	ABOVE CEILING	UND. LAV.	UNDER LAVATORY
—RD—	ROOF DRAIN LINE	— — —	HOSE BIBB	— — —	B.F.F.	BELOW FINISH FLOOR	V	VENT
—OD—	OVERFLOW DRAIN LINE	— — —	WATER HAMMER ARRESTOR	— — —	CO	CLEAN OUT	VTR	VENT THRU ROOF

NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT



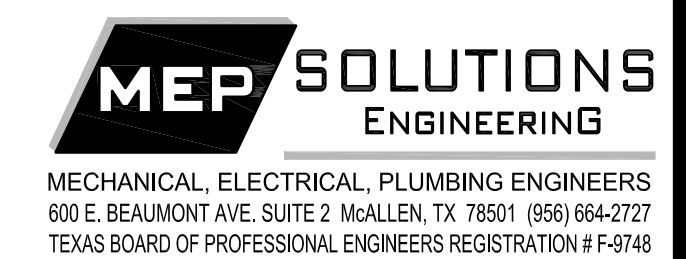
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REVISION	DATE	DESCRIPTION



PROPOSED  
**HIDALGO COUNTY  
PCT. 2  
COUNTY WIDE  
SERVICE SHOP**  
4011 S. VETERANS BLVD.  
SAN JUAN, TEXAS 78589

PROJECT 1341501  
DATE 08/12/2016  
REVISED



**P2.01**  
PLUMBING  
SCHEDULES