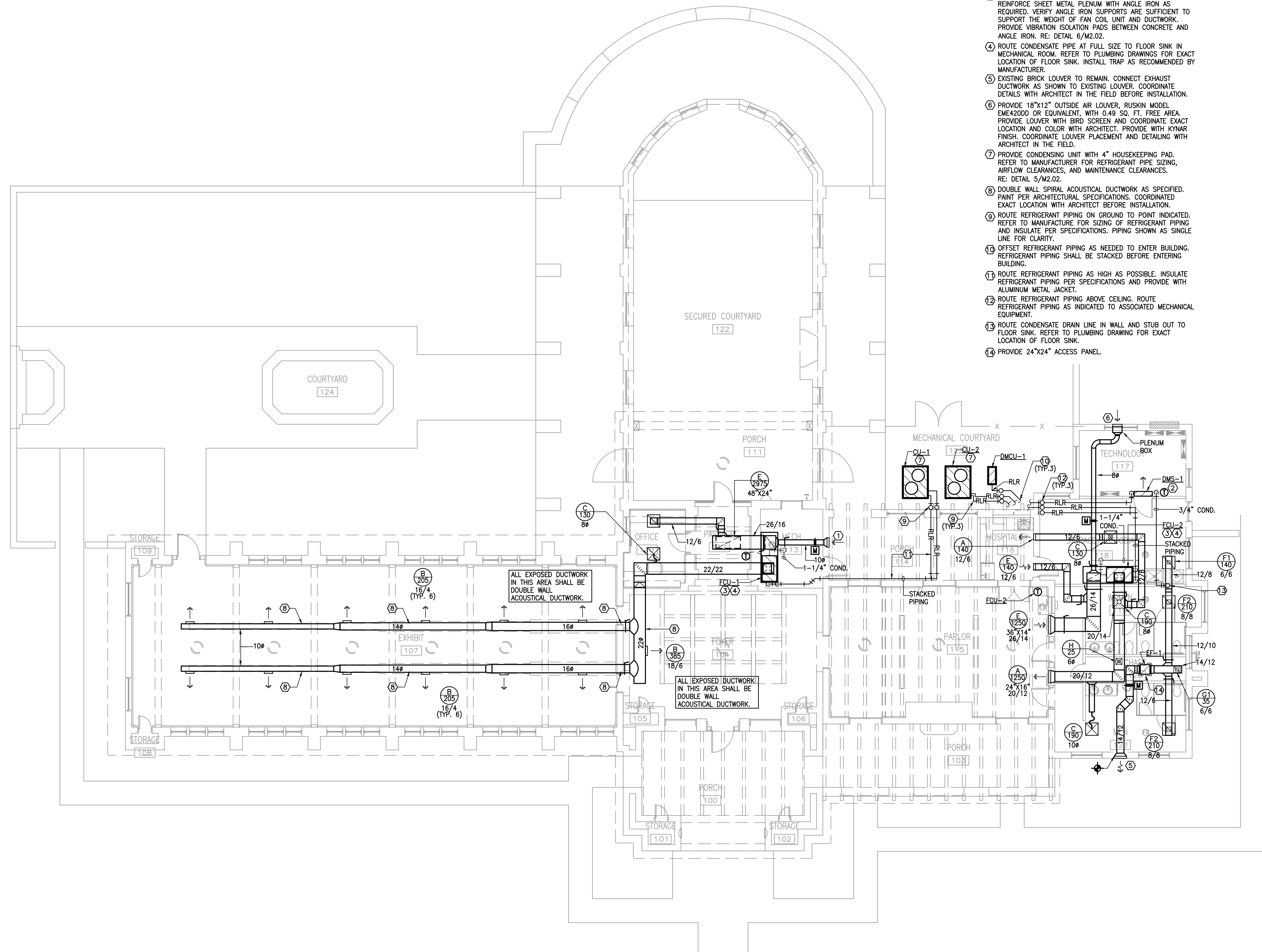




GENERAL NOTES:

1. ALL DUCT SIZES ARE INSIDE CLEAR DIMENSIONS. INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.
2. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.

MECHANICAL KEYED NOTES:

1. PROVIDE 18"x18" OUTSIDE AIR LOUVER, RUSKIN MODEL EME42000 OR EQUIVALENT, WITH 0.71 SQ. FT. FREE AREA. PROVIDE LOUVER WITH BIRD SCREEN AND COORDINATE EXACT LOCATION AND COLOR WITH ARCHITECT. PROVIDE LOUVER WITH KYNAR FINISH.
2. MOUNT INDOOR HIGH WALL UNIT ABOVE DOOR. PROVIDE NEW INDOOR UNIT WITH CONDENSATE PUMP.
3. MOUNT FAN COIL UNIT ON 32"x96"x24" SHEET METAL PLENUM. REINFORCE SHEET METAL PLENUM WITH ANGLE IRON AS REQUIRED. VERIFY ANGLE IRON SUPPORTS ARE SUFFICIENT TO SUPPORT THE WEIGHT OF FAN COIL UNIT AND DUCTWORK. PROVIDE VIBRATION ISOLATION PADS BETWEEN CONCRETE AND ANGLE IRON. RE: DETAIL 6/M2.02.
4. ROUTE CONDENSATE PIPE AT FULL SIZE TO FLOOR SINK IN MECHANICAL ROOM. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION OF FLOOR SINK. INSTALL TRAP AS RECOMMENDED BY MANUFACTURER.
5. EXISTING BRICK LOUVER TO REMAIN. CONNECT EXHAUST DUCTWORK AS SHOWN TO EXISTING LOUVER. COORDINATE DETAILS WITH ARCHITECT IN THE FIELD BEFORE INSTALLATION.
6. PROVIDE 18"x12" OUTSIDE AIR LOUVER, RUSKIN MODEL EME42000 OR EQUIVALENT, WITH 0.49 SQ. FT. FREE AREA. PROVIDE LOUVER WITH BIRD SCREEN AND COORDINATE EXACT LOCATION AND COLOR WITH ARCHITECT. PROVIDE WITH KYNAR FINISH. COORDINATE LOUVER PLACEMENT AND DETAILING WITH ARCHITECT IN THE FIELD.
7. PROVIDE CONDENSING UNIT WITH 4" HOUSEKEEPING PAD. REFER TO MANUFACTURER FOR REFRIGERANT PIPE SIZING, AIRFLOW CLEARANCES, AND MAINTENANCE CLEARANCES. RE: DETAIL 5/M2.02.
8. DOUBLE WALL SPIRAL ACOUSTICAL DUCTWORK AS SPECIFIED. PAINT PER ARCHITECTURAL SPECIFICATIONS. COORDINATED EXACT LOCATION WITH ARCHITECT BEFORE INSTALLATION.
9. ROUTE REFRIGERANT PIPING ON GROUND TO POINT INDICATED. REFER TO MANUFACTURE FOR SIZING OF REFRIGERANT PIPING AND INSULATE PER SPECIFICATIONS. PIPING SHOWN AS SINGLE LINE FOR CLARITY.
10. OFFSET REFRIGERANT PIPING AS NEEDED TO ENTER BUILDING. REFRIGERANT PIPING SHALL BE STACKED BEFORE ENTERING BUILDING.
11. ROUTE REFRIGERANT PIPING AS HIGH AS POSSIBLE. INSULATE REFRIGERANT PIPING PER SPECIFICATIONS AND PROVIDE WITH ALUMINUM METAL JACKET.
12. ROUTE REFRIGERANT PIPING ABOVE CEILING. ROUTE REFRIGERANT PIPING AS INDICATED TO ASSOCIATED MECHANICAL EQUIPMENT.
13. ROUTE CONDENSATE DRAIN LINE IN WALL AND STUB OUT TO FLOOR SINK. REFER TO PLUMBING DRAWING FOR EXACT LOCATION OF FLOOR SINK.
14. PROVIDE 24"x24" ACCESS PANEL.

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

ISSUED FOR SCHEMATIC DESIGN ☐
DATE: _____
DESIGN DEVELOPMENT ☐
DATE: _____
BIDS & CONSTRUCTION ☒
DATE: 05/31/2019
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

DRAWINGS SHEET TITLE
MECHANICAL FLOOR PLAN

SHEET NUMBER
M101
1852
PROJECT NUMBER

DAMPER						
MARK	ACTUATOR	DUTY	BLADE ACTION	MANUFACTURER	MODEL NUMBER	REMARKS
D-1	MANUAL BALANCING	UNDER 9" WIDE	N/A	N/A	N/A	SEE SMACNA CONSTRUCTION DETAILS REFERENCED "TYPICAL CONSTRUCTION DETAILS FOR LOW VELOCITY DUCTS."
D-2	MANUAL BALANCING	OVER 9" WIDE	OPPOSED	RUSKIN	MD-35	MANUAL DAMPER WITH STANDARD CONSTRUCTION FEATURES AND VENTLOCK #639 LOCKING REGULATOR.
D-3	MOTORIZED	OVER 9" WIDE	OPPOSED	RUSKIN	CD-60	LOW LEAKAGE DAMPER WITH BLADE SEALS
NOTES: N/A - NOT APPLICABLE						

DS01

GRILLE								
MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	MANUFACTURER	MODEL NUMBER	REMARKS
A	SUPPLY AIR	GRILLE	—	STEEL	WHITE	TITUS	300RL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED. (1)
B	SUPPLY AIR	GRILLE	—	STEEL	WHITE	TITUS	S300FL	DOUBLE DEFLECTION GRILLE WITH HORIZONTAL FRONT BARS. DUCT MOUNTED. (1 & 2)
C	SUPPLY AIR	DIFFUSER	—	STEEL	WHITE	TITUS	OMNI	SURFACE MOUNT CEILING FRAME STYLE WITH 24"x24"FACE (1)
D	RETURN AIR	DIFFUSER	—	STEEL	WHITE	TITUS	PAR	SURFACE MOUNT FRAME STYLE WITH 24"x24" FACE. (1)
E	RETURN AIR	GRILLE	—	STEEL	WHITE	TITUS	350RL	LOUVERED FACE SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED. (1)
F	EXHAUST AIR	DIFFUSER	—	STEEL	WHITE	TITUS	PAR	SURFACE MOUNT FRAME STYLE WITH 24"x24" FACE. (1)
G	EXHAUST AIR	DIFFUSER	—	STEEL	WHITE	TITUS	PAR	SURFACE MOUNT FRAME STYLE WITH 12"x12" FACE. (1)
H	SUPPLY AIR	DIFFUSER	—	STEEL	WHITE	TITUS	OMNI	SURFACE MOUNT FRAME STYLE WITH 12"x12" FACE. (1)
GENERAL NOTES:						REMARKS:		
1. DAMPERS NOTED AS U. L. SHALL BE A "U. L." CLASSIFIED CEILING RADIATION DAMPER WITH THERMAL BLANKET.						1. COORDINATE FINAL AIR DEVICE LOCATIONS WITH ARCHITECT.		
2. COORDINATE AIR DEVICE FINISH COLOR WITH ARCHITECT.						2. PROVIDE DIFFUSER WITH EXTRACTOR.		

DS02

FAN													
MARK	LOCATION	CFM	MAXIMUM RPM	EXT. STATIC PRESSURE (IN. W.C.)	HORSE POWER	CURRENT CHARAC.	LOCALLY SWITCHED BY	INTERLOCKED WITH	FAN TYPE	BELT/DIRECT DRIVE	MANUFACTURER	MODEL NUMBER	REMARKS
EF-1	CHASE 120	595	1,447	0.4	1/4	120/1/60	LIGHTS	—	INLINE	DIRECT	COOK	SQND	1,2,3
REMARKS:													
GENERAL NOTES:							1. PROVIDE WITH DISCONNECT. 2. PROVIDE WITH INLINE FAN KIT, BACKDRAFT DAMPER, AND UNIT MOUNTED FAN SPEED CONTROLLER 3. SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. PROVIDE SPRING ISOLATION. REFER TO MANUFACTURER FOR ADDITIONAL INSTALLATION REQUIREMENTS.						
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.													
2. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.													
3. FAN SHALL BE CENTRIFUGAL, BELT DRIVEN TYPE UNLESS OTHERWISE SCHEDULED.													

AS12

DX FAN/COIL UNIT																			
MARK	FAN					COOLING					ELECTRIC HEATING								REMARKS
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. STATIC PRESSURE (IN. W.C.)	HORSE POWER	ELECTRICAL REQUIREMENTS	AIR TEMPERATURE (°F) ENTERING DRY BULB	AIR TEMPERATURE (°F) ENTERING WET BULB	MIN. TOTAL CAPACITY (MBH)	MIN. SENSIBLE CAPACITY (MBH)	MINIMUM EER/ SEER	NUMBER OF STAGES	ENTERING AIR TEMP. (°F)	MINIMUM CAPACITY (MBH)	KW	NUMBER OF STAGES	ELECTRICAL REQUIREMENTS	MCA	MOCP	
FCU-1	2,975	360	1.0	2.0	208/3/60	77	64	84.96	70.18	12.8/-	2	65	88.7	26	2	208/3/60	100.1	110	1,2,3,4,5,6
FCU-2	1,925	250	.75	1.0	208/3/60	77	64	67.54	51.34	12.0/-	1	65	64.8	19	2	208/3/60	74	80	1,2,3,4,5,6
GENERAL NOTES:																			
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.																			
2. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.																			
REMARKS:																			
1. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.																			
2. CONTROLLED BY PROGRAMMABLE WIRED THERMOSTAT.																			
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.																			
4. PROVIDE VERTICAL UNIT.																			
5. PROVIDE A WATER LEVEL SENSING DEVICE IN THE PRIMARY DRAIN PAN. THIS DEVICE SHALL SHUT OFF THE UNIT IN THE EVENT THE PRIMARY DRAIN PAN LINE BECOMES RESTRICTED.																			
6. PROVIDE SINGLE POINT POWER CONNECTION.																			

AIR COOLED CONDENSING UNIT									
MARK	MIN. TOTAL CAPACITY (MBH)	OUTDOOR AIR TEMP (°F)	MINIMUM EER/ SEER	NUMBER OF STAGES	ELECTRICAL REQUIREMENTS	MCA	MOCP	RELATED UNIT MARK	REMARKS
CU-1	88.7	95	13.1/-	2	208/3/60	35	50	FCU-1	1,2,3
CU-2	70.2	95	11.2/-	1	208/3/60	28	45	FCU-2	1,2,3
DMCU-1	18.0	95	-/15.3	1	208/1/60	13	15	DMS-1	1,2,3
GENERAL NOTES:									
1. MINIMUM RECOMMENDED CLEARANCE AROUND ROOFTOP UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.									
REMARKS:									
1. PROVIDE WITH LOW AMBIENT CONTROL DOWN TO 20°F.									
2. PROVIDE WITH DISCONNECT SWITCH.									
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.									

C506

CS06

DUCTLESS MINI-SPLIT (INDOOR UNIT)																		
MARK	INDOOR AIR FAN					COOLING							ELECTRIC HEATING					REMARKS
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. STATIC PRESSURE (IN. W.C.)	HORSE POWER	CURRENT CHARAC.	AIR TEMPERATURE (°F) ENTERING DRY BULB	AIR TEMPERATURE (°F) ENTERING WET BULB	OUTDOOR AMBIENT	MIN. TOTAL CAPACITY (BTUH)	MIN. SENSIBLE CAPACITY (BTUH)	MINIMUM EER/ SEER	NUMBER OF STAGES	ENTERING AIR TEMP. (°F)	MINIMUM CAPACITY (BTUH)	KW	NUMBER OF STAGES	CURRENT CHARAC.	
DMS-1	425	—	—	—	208/1/60	75	62.5	—	18,000	8,000	—/15.3	1	—	—	—	—	—	1,2,3,4
GENERAL NOTES:																		
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.																		
2. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.																		
REMARKS:																		
1. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION REQUIREMENTS.																		
2. CONTROLLED BY PROGRAMMABLE WIRED THERMOSTAT.																		
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.																		
4. INDOOR UNIT POWERED FROM OUTDOOR UNIT.																		

AS07

AS07

TYRRELL PARK VISITOR CENTER RENOVATION

City of Beaumont

5305 Tyrell Park Road

Beaumont, TX 77705

ISSUED FOR SCHEMATIC DESIGN ☐

DATE: _____

DESIGN DEVELOPMENT ☐

DATE: _____

BIDS & CONSTRUCTION ☒

DATE: 05/31/2019

REVISION: _____

DATE: _____

REVISION: _____

DATE: _____

REVISION: _____

DATE: _____

DRAWINGS SHEET TITLE

MECHANICAL SCHEDULES

SHEET NUMBER

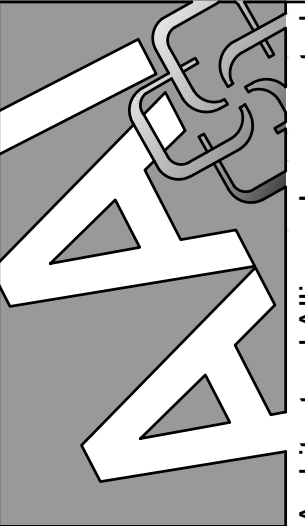
M201

1852

PROJECT NUMBER

**SALAS O'BRIEN**
(expect a difference)

10930 W. Sam Houston Parkway N., Suite 900
Houston, Texas 77064
281.664.1900 | Registration No. F-4111
Project No. 017-190133

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Mechanical
State of Texas
08-27-2019

VENTLOK #605 INSIDE END BEARING

SINGLE BLADE VOLUME DAMPER REF. SMACNA DUCT CONSTR. DETAILS

SQUARE CONTROL ROD

VENTLOK #607 END BEARING

VENTLOK #677 CONCEALED DAMPER REGULATOR WITH CHROME PLATED COVER

VENTLOK #637 LOCKING REGULATOR WITH END BEARING (VENTLOK #605)

EXTERNAL DUCT INSULATION

VOLUME DAMPER WHERE SHOWN ON DWGS. (TYP)

SINGLE THICKNESS TURNING VANES WITH TRAILING EDGE EXTENSIONS

TRANSITION

SPLITTER DAMPER LENGTH TO BE 1.5" x "A"

VENTLOK #603 BALL JOINT WITH SET SCREW

SPLITTER ROD

VENTLOK #600 BLADE BRACKET

↑ AIR FLOW

FINISHED CEILING (REF. ARCH. CLG. PLAN)

MULTIBLADE OPPOSED ACTION VOLUME DAMPER

TYPICAL CONDITION (SEE THIS DETAIL)

① DAMPER ABOVE INACCESSIBLE CEILING

② DAMPER ABOVE LIFT-OUT CEILING

12" CUSHION HEAD

REGISTER WITH DAMPER

DUCT TAP

ADJUSTABLE STEEL EQUALIZING GRID

TRANSITION (REF. SMACNA DUCT CONSTR. DETAILS)

SIDEWALL REGISTER AT END OF DUCT

NOTES:

- MAX. WIDTH OF DUCT TAP SHALL BE 48". PROVIDE BOTTOM REGISTER FOR SUPPORT WHERE EXTRACTOR EXCEEDS 16".
- MAX. HEIGHT OF DUCT TAP SHALL BE 12" (MIN. = 4")

AIR EXTRACTOR AT SIDEWALL REGISTER

SPLITTER DAMPER WITH VENTLOK #600 BLADE BRACKET (DAMPER LENGTH TO BE 1.5" x "D")

"D"

45°

SPLITTER ROD

VENTLOK #603 BALL JOINT WITH SET SCREW

↑ AIR FLOW

DUCT TAP

STANDARD GRILLE

ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN.

REGISTER OR NONSTANDARD GRILLE

ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN.
ALL REGISTERS SHALL HAVE A 45° HORIZONTAL DEFLECTION UNLESS OTHERWISE SHOWN.

GRILLE SIZE DESIGNATION	GRILLE NECK SIZE	GRILLE SIZE DESIGNATION	GRILLE NECK SIZE
1	6" x 6"	7	15" x 15"
2	8" x 8"	8	16" x 16"
3	9" x 9"	9	18" x 18"
4	10" x 10"	10	20" x 20"
5	12" x 12"	11	22" x 22"
6	14" x 14"	12	24" x 24"

VENTILATION AIR DUCTWORK

RETURN AIR DUCTWORK

AIR HANDLING UNIT/
FAN COIL UNIT

SUPPLY AIR DUCTWORK

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TRANSITIONS

MAIN BRANCH TAKE-OFFS

RISERS

SIDEWALL REGISTERS

DUCT CROSSEVERS

SUB-BRANCH TAP AND TEE

TWO LINE DUCTWORK LEGEND

TWO LINE DUCTWORK SYMBOLS

ONE LINE DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
	KEY NOTE TAG
	NOTE SPECIFIC TO DETAIL TAG
	REVISION TAG
	NEW EQUIPMENT
DUCTWORK	
	SUPPLY AIR DUCTWORK
	RETURN AIR AND OUTSIDE AIR DUCTWORK
	EXHAUST AIR DUCTWORK
	FLEXIBLE DUCTWORK
	SUPPLY AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	RETURN AIR AND OUTSIDE AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	FIRE DAMPER (VERTICAL)
	FIRE DAMPER (HORIZONTAL)
	SMOKE DAMPER (VERTICAL)
	SMOKE DAMPER (HORIZONTAL)
	COMBINATION FIRE & SMOKE DAMPER (VERTICAL)
	COMBINATION FIRE & SMOKE DAMPER (HORIZONTAL)
	MANUAL BALANCING DAMPER (SEE DAMPER SCHEDULE)
	MOTORIZED DAMPER (SEE DAMPER SCHEDULE)
SENSORS	
	THERMOSTAT AND TEMPERATURE SENSOR
	HUMIDISTAT
	SMOKE DETECTOR
	HEAT DETECTOR
AIR DEVICES	
	GRILLE SIZE TAG (REFER TO GRILLE SIZE LEGEND)
	SUPPLY AIR GRILLE WITH FOUR-WAY THROW
	SUPPLY AIR GRILLE WITH THREE-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY CORNER THROW
	SUPPLY AIR GRILLE WITH ONE-WAY THROW
	RETURN AIR GRILLE
	RETURN AIR GRILLE WITH SOUND BOOT
	EXHAUST AIR GRILLE
	SUPPLY AIR SIDEWALL GRILLE
	RETURN AIR SIDEWALL GRILLE
	RETURN AIR OPENING ABOVE CEILING
PIPING	
	CONDENSATE DRAIN LINE
	AUXILIARY CONDENSATE DRAIN LINE
	REFRIGERANT LIQUID & GAS RECIRCULATION LINE (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
	REFRIGERANT LIQUID LINE
	REFRIGERANT HOT GAS LINE
	REFRIGERANT SUCTION LINE
	ELBOW UP
	ELBOW DOWN
	90° ELBOW
	45° ELBOW
	TEE
	FLANGE
	CAP
	CONTINUATION
	FLOOR DRAIN (REFER TO PLUMBING DRAWINGS)
	PIPE GUIDE
SUBSCRIPTS AND ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
BBS	BELOW BOTTOM OF STRUCTURE
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
CA	COMBUSTION AIR
CFM	CUBIC FEET PER MINUTE
EA	EXHAUST AIR
FFM	FEET PER MINUTE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR

6 SCALE: NONE P009

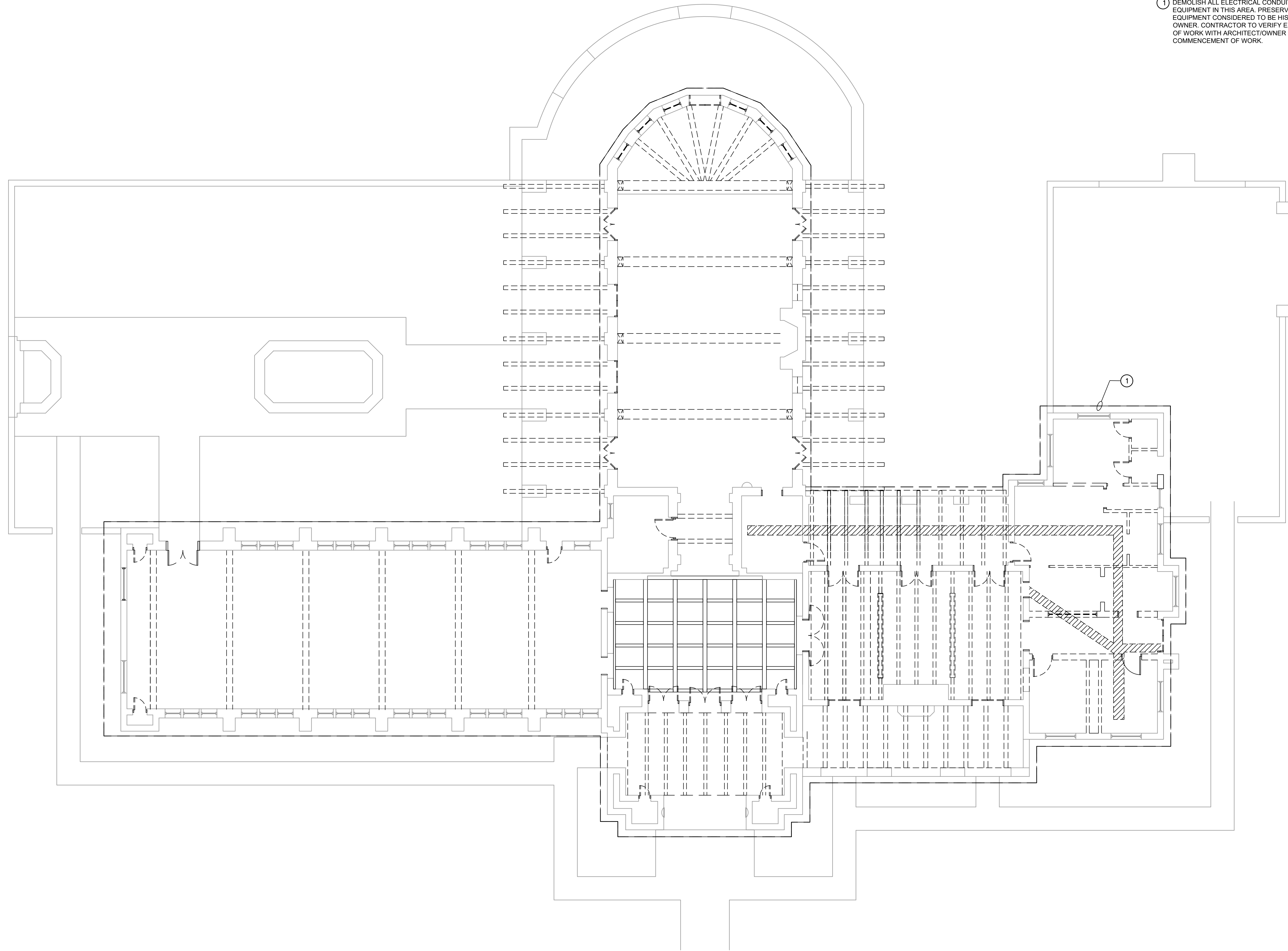
5 SCALE: NONE

4 SCALE: NONE D009

3 SCALE: NONE D013

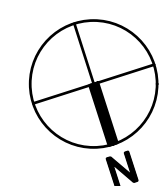
2 SCALE: NONE D015

SCALE: NONE P009



ELECTRICAL KEYED NOTES:

① DEMOLISH ALL ELECTRICAL CONDUITS, WIRING, DEVICES AND EQUIPMENT IN THIS AREA. PRESERVE ANY DEVICES/ EQUIPMENT CONSIDERED TO BE HISTORICAL AND RETURN TO OWNER. CONTRACTOR TO VERIFY EXACT DEMOLITION SCOPE OF WORK WITH ARCHITECT/OWNER PRIOR TO COMMENCEMENT OF WORK.

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

 **SALAS O'BRIEN**
[expect a difference]
10930 W. Sam Houston Parkway N., Suite 900
Houston, Texas 77064
281.664.1900 | Registration No. F-4111
Project No. 017-190133

DRAWINGS SHEET TITLE
**ELECTRICAL
DEMOLITION
FLOOR PLAN**

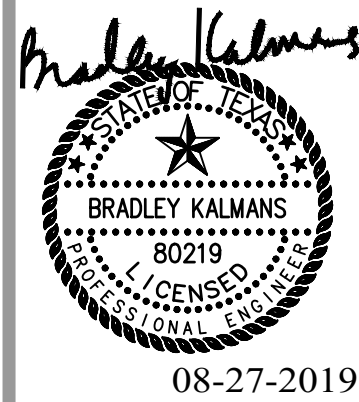
SHEET NUMBER
E001
1852
PROJECT NUMBER

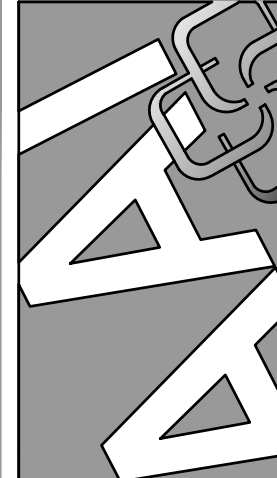
TYRRELL PARK VISITOR CENTER RENOVATION

City of Beaumont

5305 Tyrrell Park Road

Beaumont, TX 77705



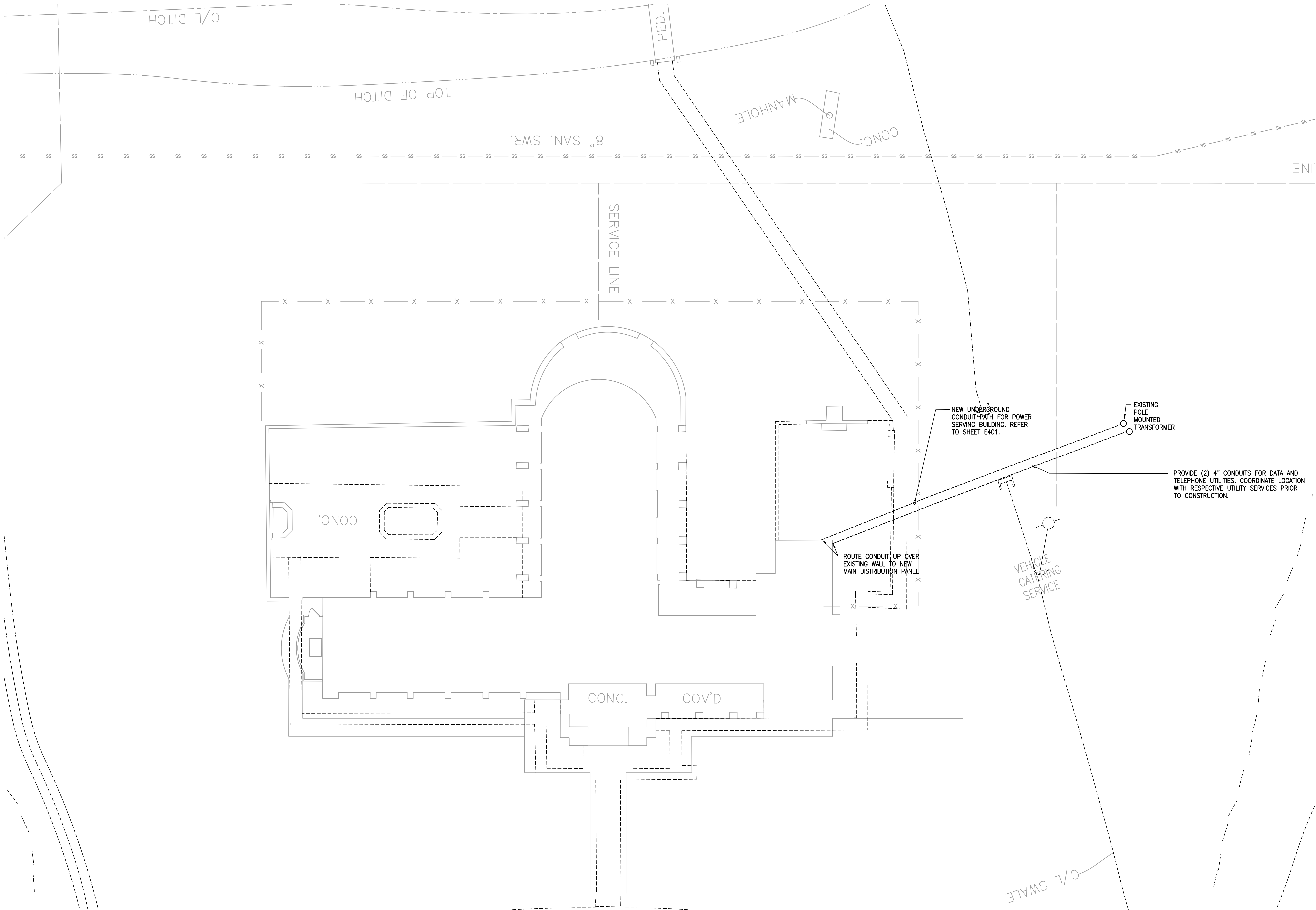

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RONALD W. JONES, AIA
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ELECTRICAL SITE GENERAL NOTES:

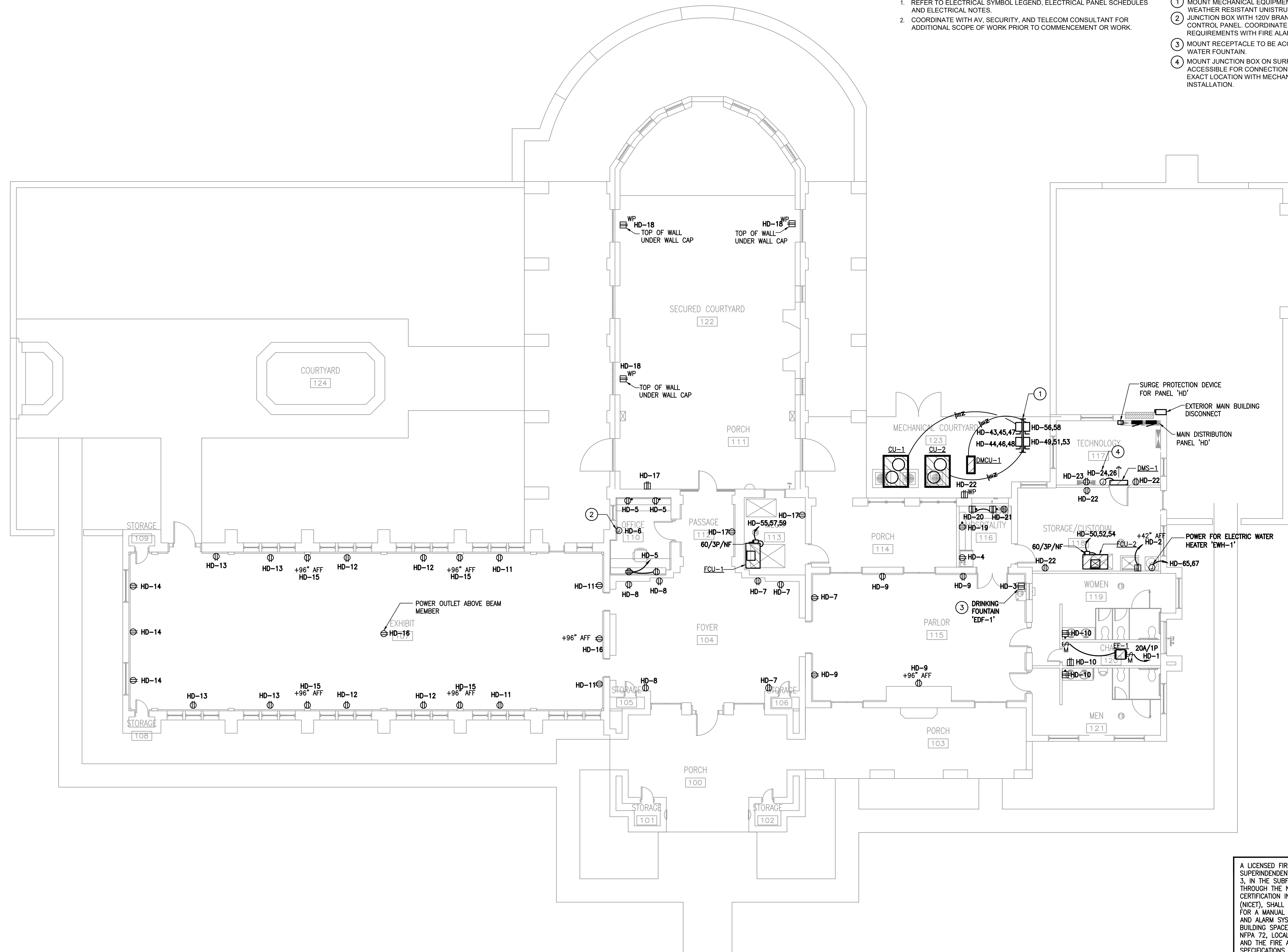
1. COORDINATE WITH CIVIL DRAWINGS FOR EXISTING UTILITY LOCATIONS PRIOR TO COMMENCEMENT OF WORK.
2. COORDINATE WITH ARCHITECT FOR FINAL LOCATIONS OF ALL SITE LIGHTING CONDUIT ROUTING WHICH INVOLVES PRESERVATION OF THE EXISTING SITE STRUCTURE AND/OR SLAB.

ELECTRICAL KEYED NOTES:

- 1 NEW POLE AND SITE LIGHTING FIXTURE. REFER TO SITE LIGHTING SCHEDULE.



1 ELECTRICAL SITE PLAN
SCALE: 1/16" = 1'-0"



ELECTRICAL GENERAL NOTES:

1. REFER TO ELECTRICAL SYMBOL LEGEND, ELECTRICAL PANEL SCHEDULES AND ELECTRICAL NOTES.
2. COORDINATE WITH AV, SECURITY, AND TELECOM CONSULTANT FOR ADDITIONAL SCOPE OF WORK PRIOR TO COMMENCEMENT OR WORK.

ELECTRICAL KEYED NOTES:

1. MOUNT MECHANICAL EQUIPMENT DISCONNECTS ON NEW WEATHER RESISTANT UNISTRUT RACK.
2. JUNCTION BOX WITH 120V BRANCH CIRCUIT FOR FIRE ALARM CONTROL PANEL. COORDINATE EXACT LOCATION AND OTHER REQUIREMENTS WITH FIRE ALARM CONTRACTOR.
3. MOUNT RECEPTACLE TO BE ACCESSIBLE UNDER 'H' SIDE OF WATER FOUNTAIN.
4. MOUNT JUNCTION BOX ON SURFACE OF WALL TO BE ACCESSIBLE FOR CONNECTION TO DMS-1. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACT PRIOR TO INSTALLATION.

A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

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

TYRRELL PARK VISITOR CENTER RENOVATION

City of Beaumont

5305 Tyrrell Park Road

Beaumont, TX 77705

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DATE: _____
BIDS & CONSTRUCTION ☒
DATE: 05/31/2019
REVISION: _____
DATE: _____
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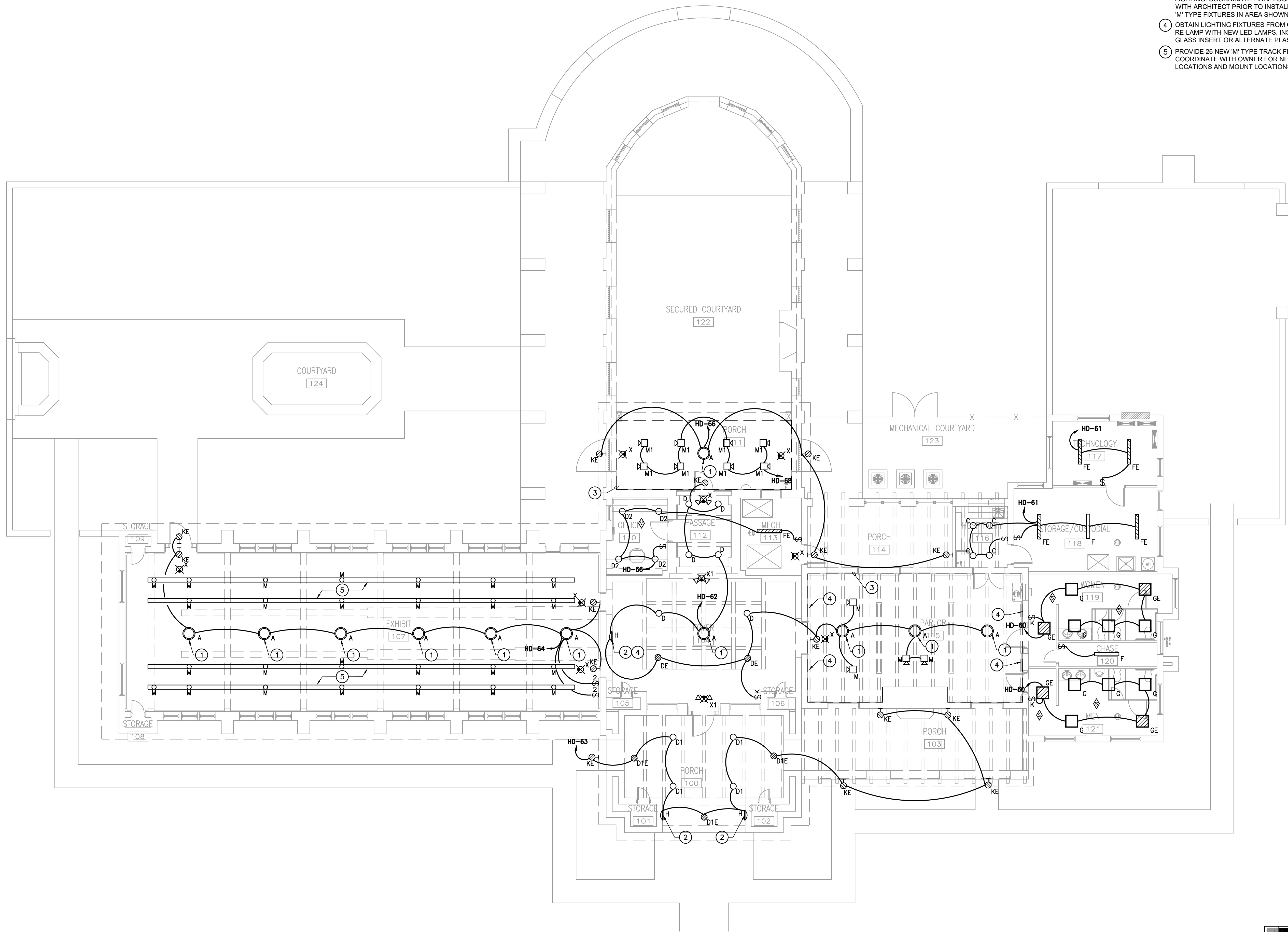
DRAWINGS SHEET TITLE
**ELECTRICAL
POWER
FLOOR PLAN**

SHEET NUMBER
E201
1852
PROJECT NUMBER

SALASO'BRIEN
[expect a difference]
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Project No. 017-190133

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BRADLEY KALMANS
80219
08-27-2019



ELECTRICAL KEYED NOTES:

- 1 OBTAIN FIXTURES FROM OWNER. CLEAN, PAINT, RE-WIRE AND RE-LAMP EXISTING LIGHTING FIXTURE WITH NEW LED LAMP(S). (TYPICAL)
- 2 CLEAN FIXTURE AND EXISTING WROUGHT IRON GRILLE. RE-WIRE AND RE-LAMP EXISTING LIGHTING FIXTURE WITH NEW LED LAMP(S).
- 3 SINGLE POINT FLUSH LIGHTING FIXTURE FOR TRACK LIGHTING. COORDINATE FINAL LOCATION AND MOUNTING WITH ARCHITECT PRIOR TO INSTALLATION. TYPICAL FOR ALL 'M' TYPE FIXTURES IN AREA SHOWN.
- 4 OBTAIN LIGHTING FIXTURES FROM OWNER RE-WIRE AND RE-LAMP WITH NEW LED LAMPS. INSTALL 1/4" THICK OBSCURE GLASS INSERT OR ALTERNATE PLASTIC SOLUTION.
- 5 PROVIDE 26 NEW 'M' TYPE TRACK FIXTURES FOR EXHIBIT 107. COORDINATE WITH OWNER FOR NEW TRACK LIGHTING LOCATIONS AND MOUNT LOCATIONS PRIOR TO INSTALLATION.

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CENSUS
COUNTY OF HARRIS, TEXAS

08-27-2019

TYRRELL PARK VISITOR CENTER RENOVATION

City of Beaumont

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Beaumont, TX 77705

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REVISION: _____

DATE: _____

REVISION: _____

DATE: _____

REVISION: _____

DATE: _____

DRAWINGS SHEET TITLE

ELECTRICAL LIGHTING FLOOR PLAN

SHEET NUMBER

E301

1852

PROJECT NUMBER

SALASO'BRIEN
[expect a difference]

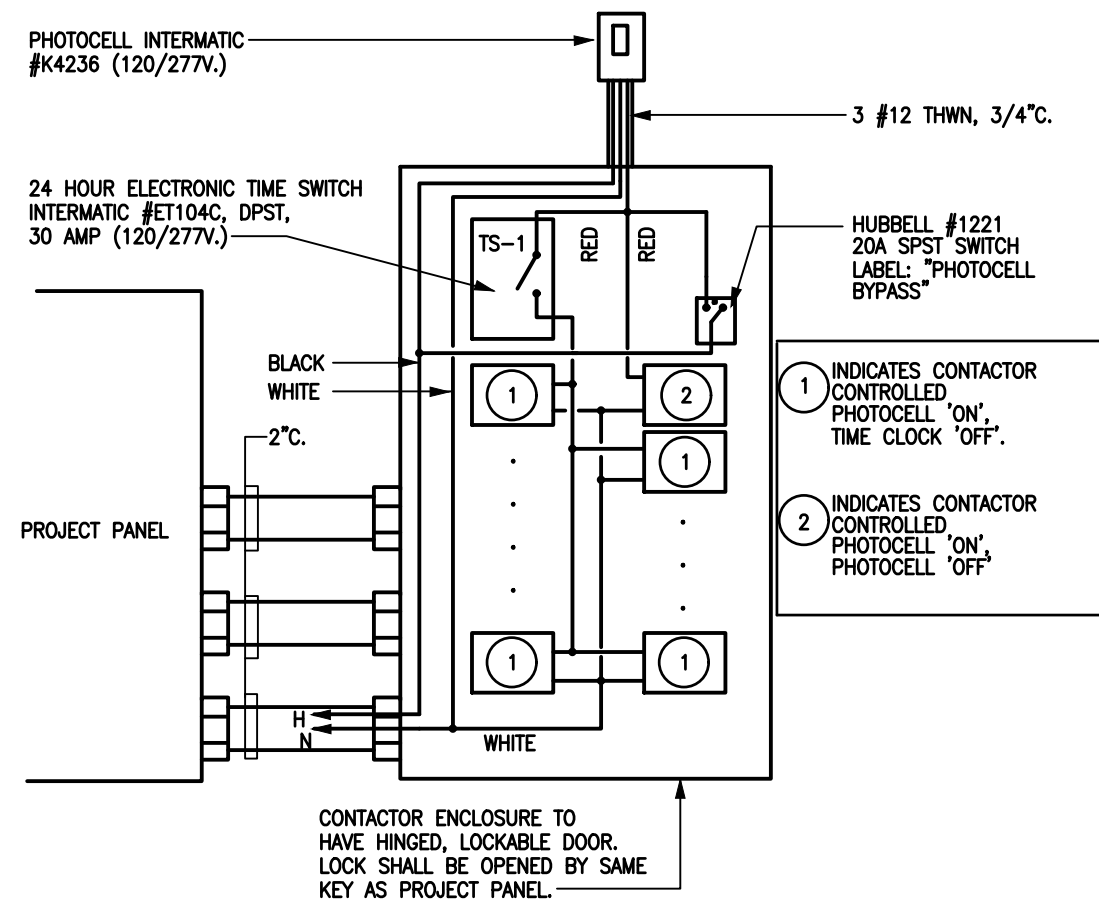
10930 W. Sam Houston Parkway N., Suite 900
Houston, Texas 77064
281.664.1900 | Registration No. F-4111
Project No. 017-190133

ELECTRICAL LIGHTING FLOOR PLAN

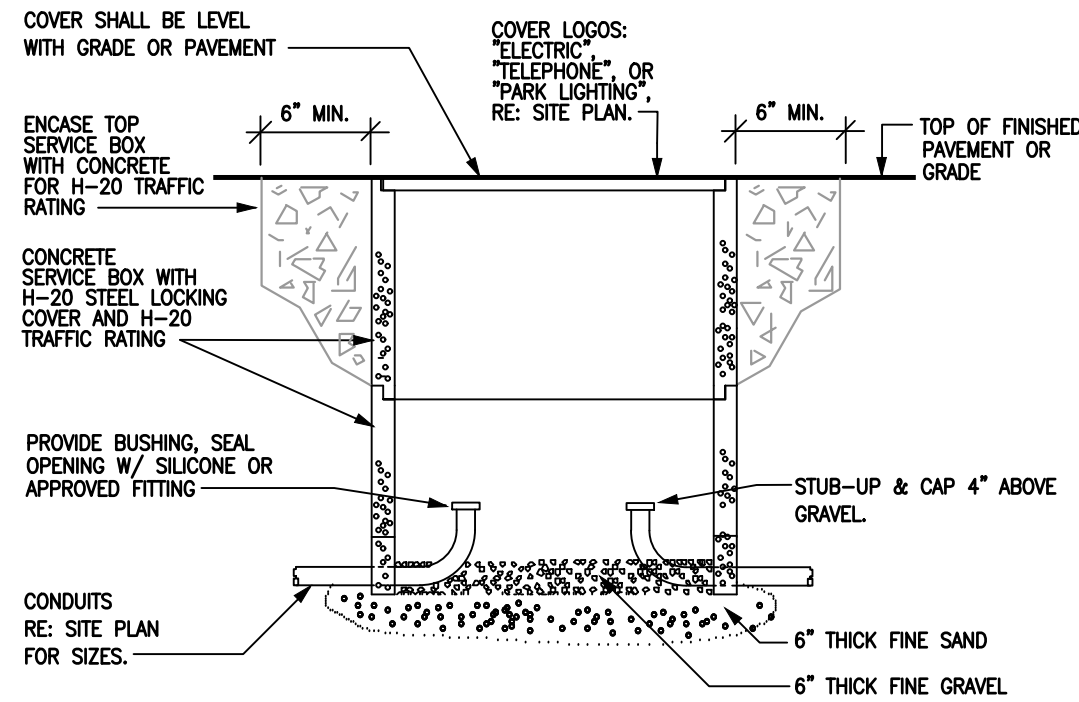
SCALE: 1/8" = 1'-0"



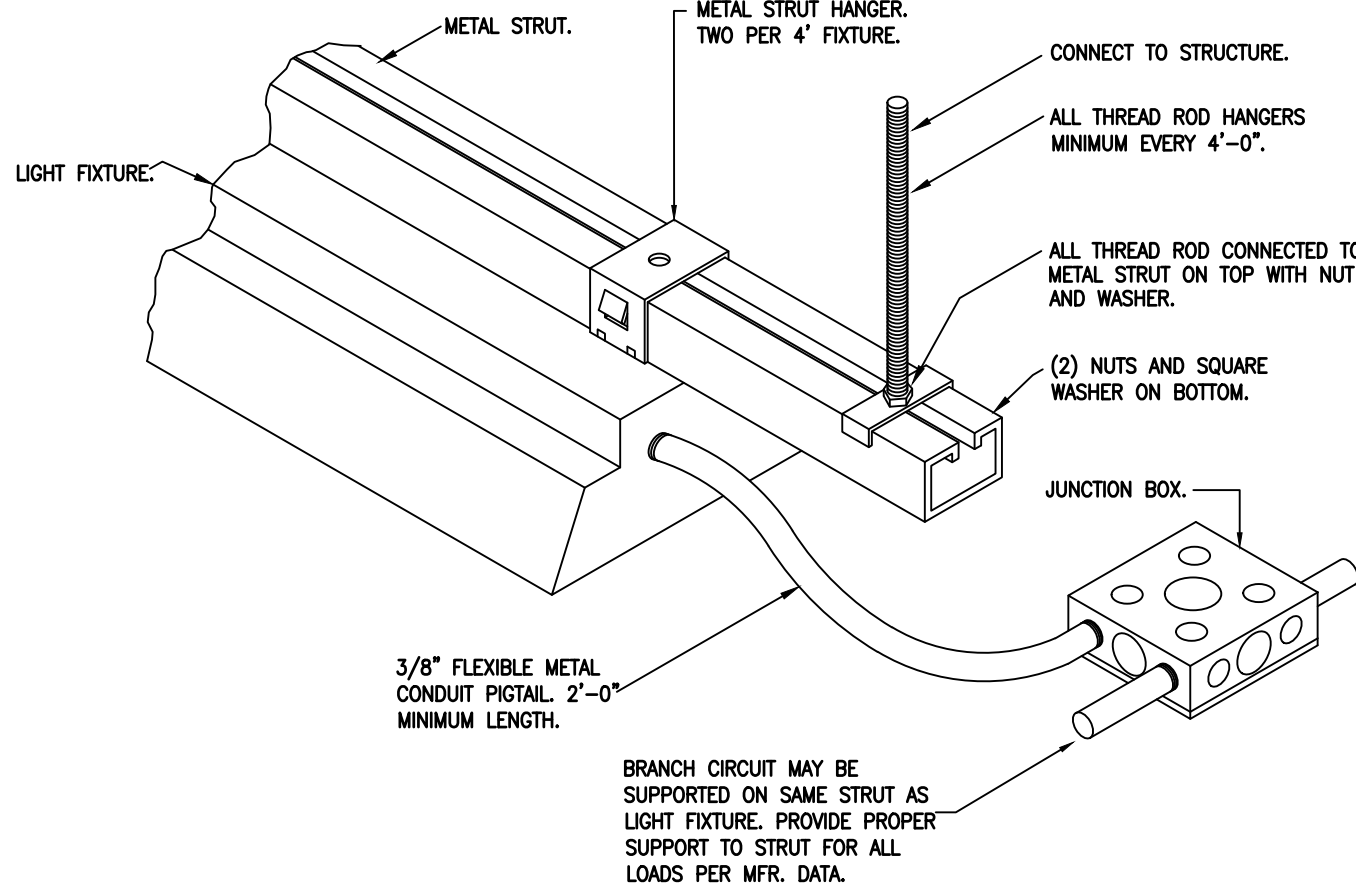
1852



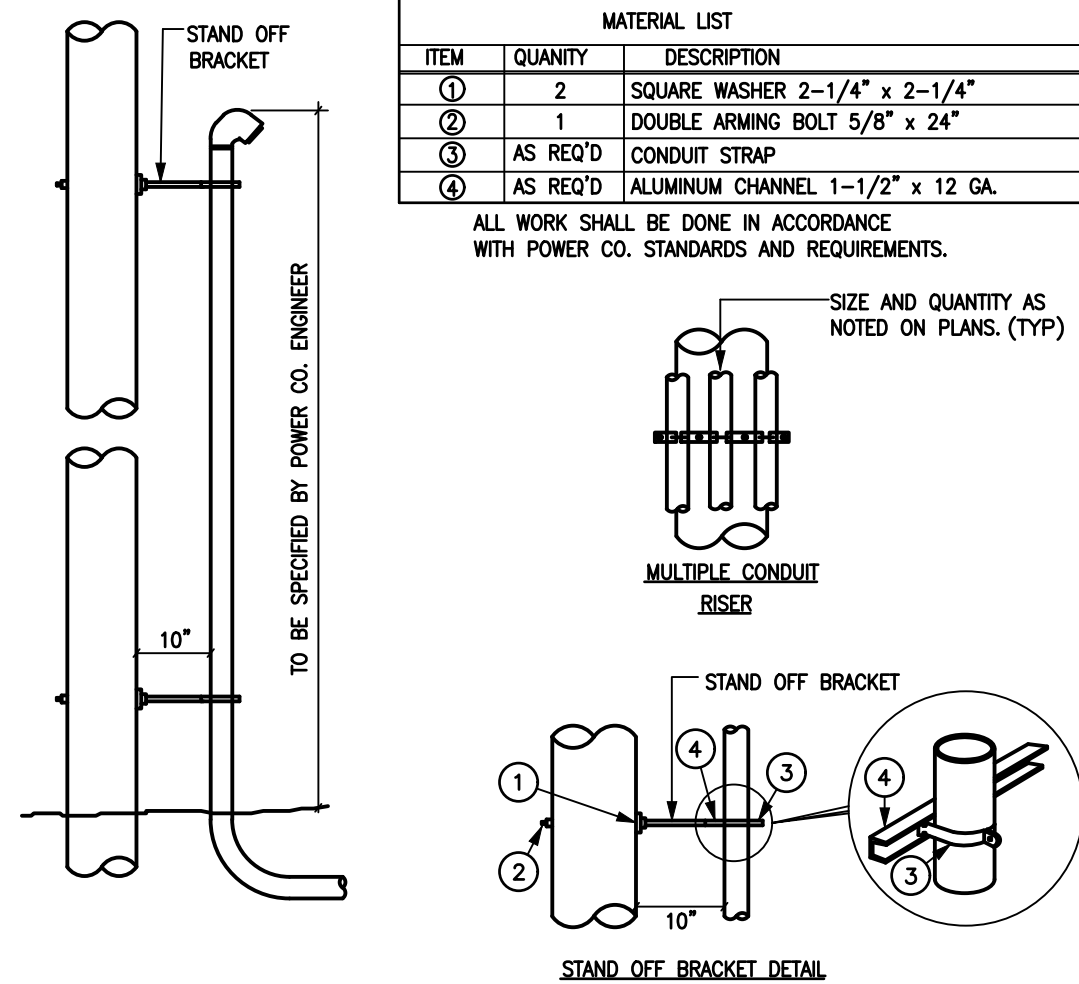
1 LIGHTING CONTROL DIAGRAM
SCALE: NONE



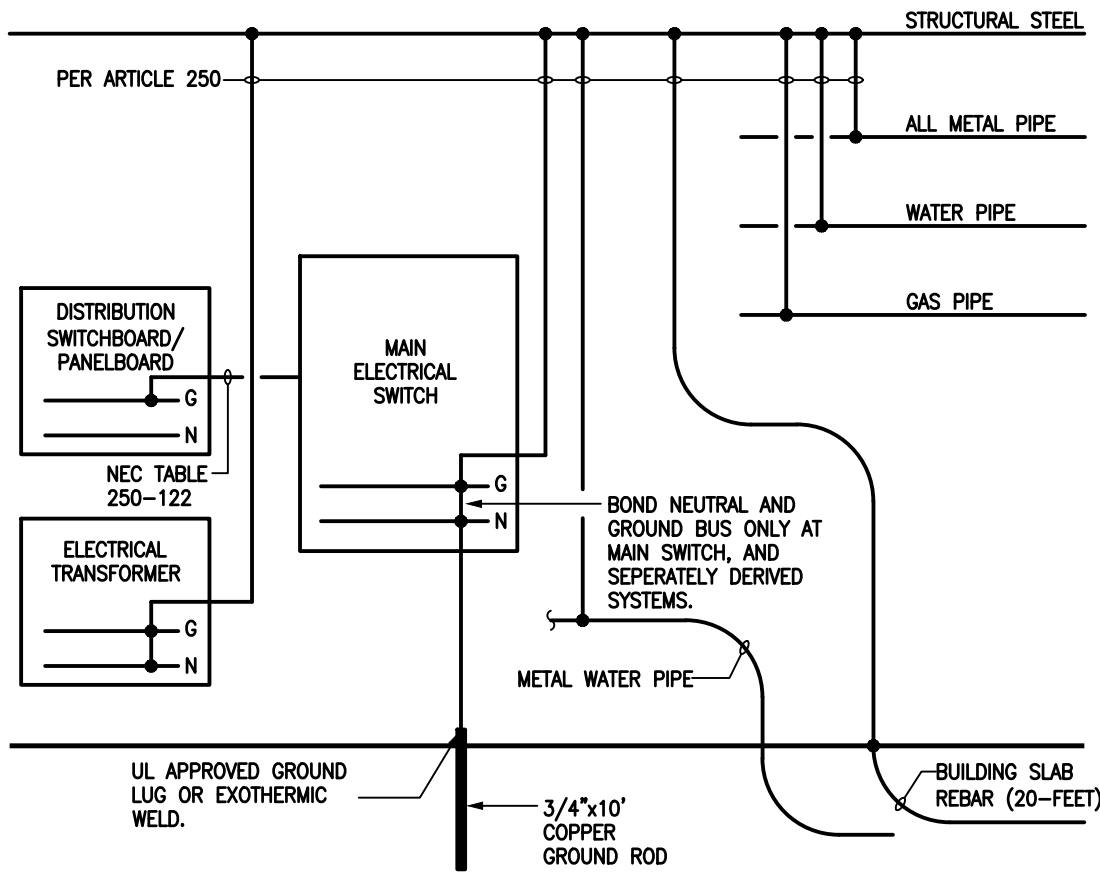
2 PULL/CAP BOX DETAIL
SCALE: NONE



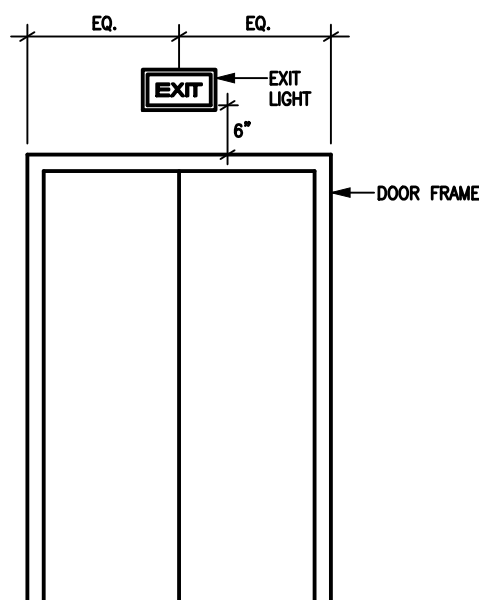
3 STRUT MOUNT LIGHT FIXTURE DETAIL
SCALE: NONE



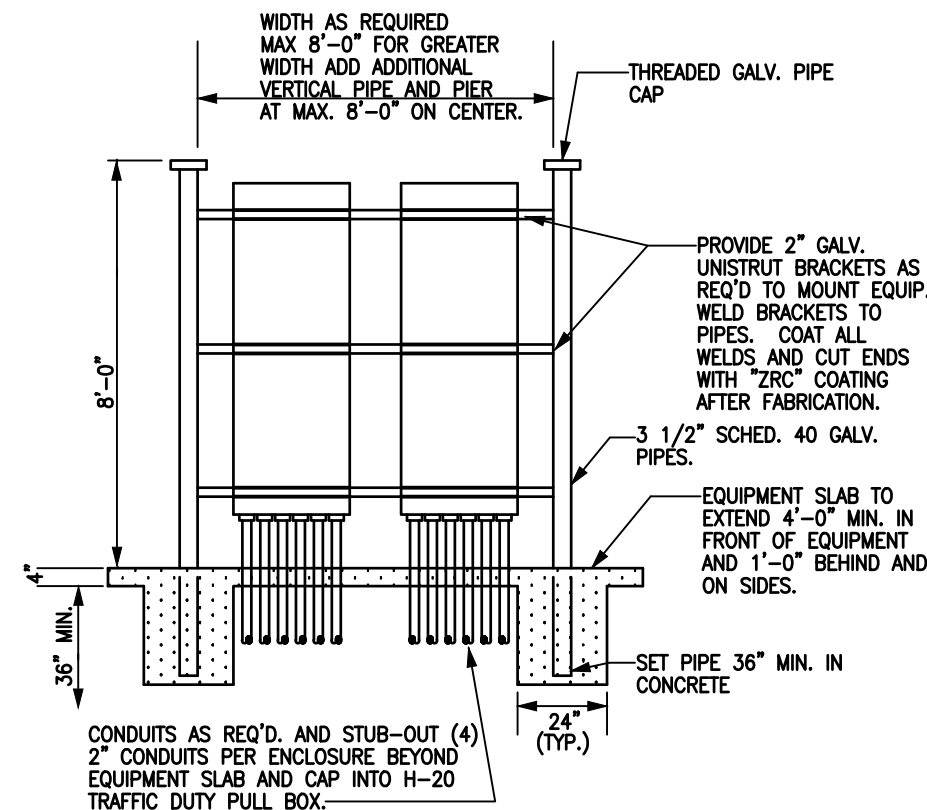
4 CONDUIT RISER ON POWER POLE
SCALE: NONE



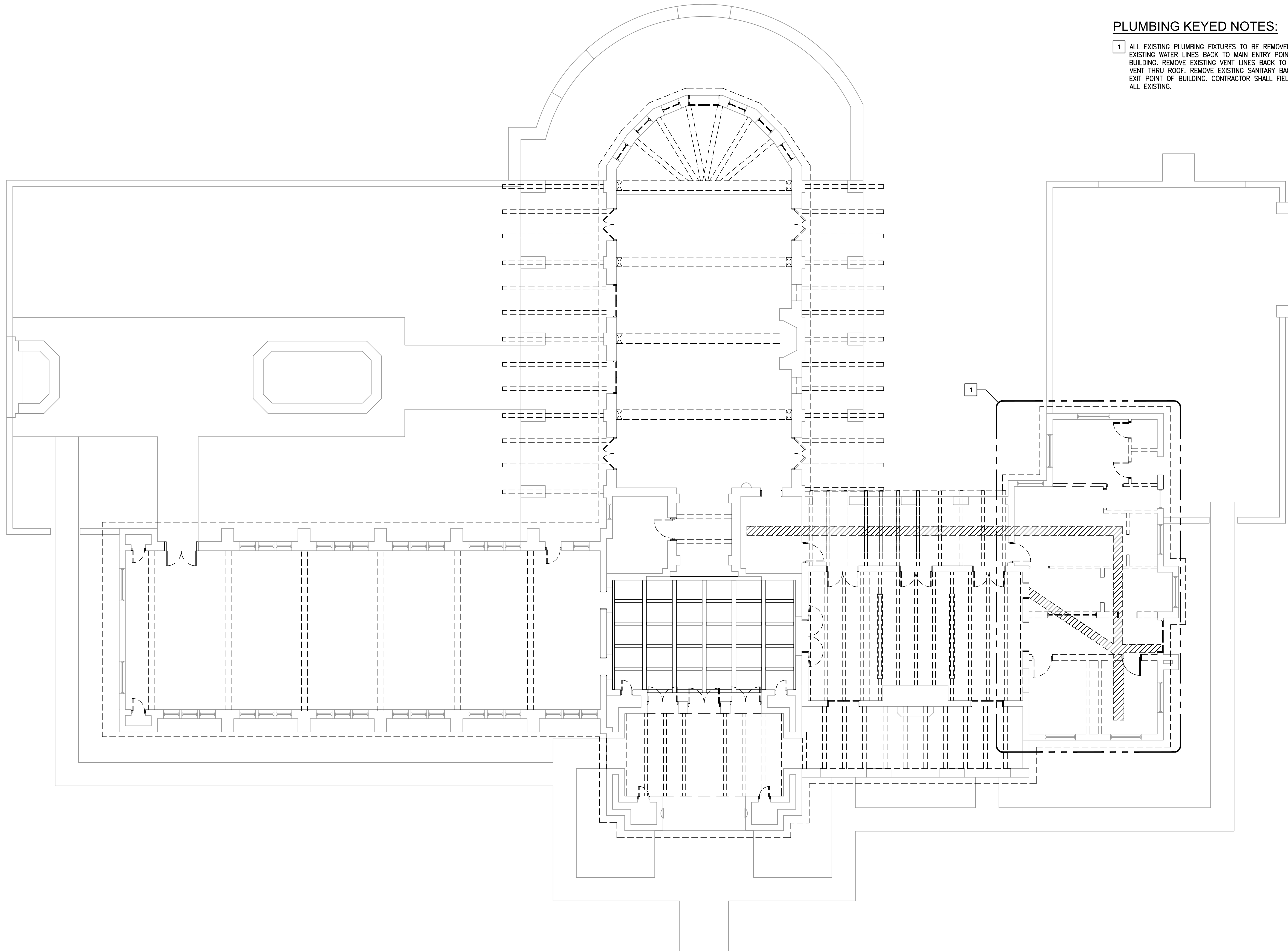
5 GROUNDING DETAIL
SCALE: NONE



6 TYPICAL EXIT SIGN LOCATION
SCALE: NONE

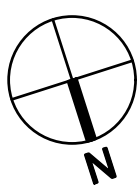


7 ELECTRICAL EQUIPMENT RACK DETAIL
SCALE: NONE



PLUMBING KEYED NOTES:

- 1 ALL EXISTING PLUMBING FIXTURES TO BE REMOVED. REMOVE EXISTING WATER LINES BACK TO MAIN ENTRY POINT OF BUILDING. REMOVE EXISTING VENT LINES BACK TO EXISTING VENT THRU ROOF. REMOVE EXISTING SANITARY BACK TO MAIN EXIT POINT OF BUILDING. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING.



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

SALASO'BRIEN
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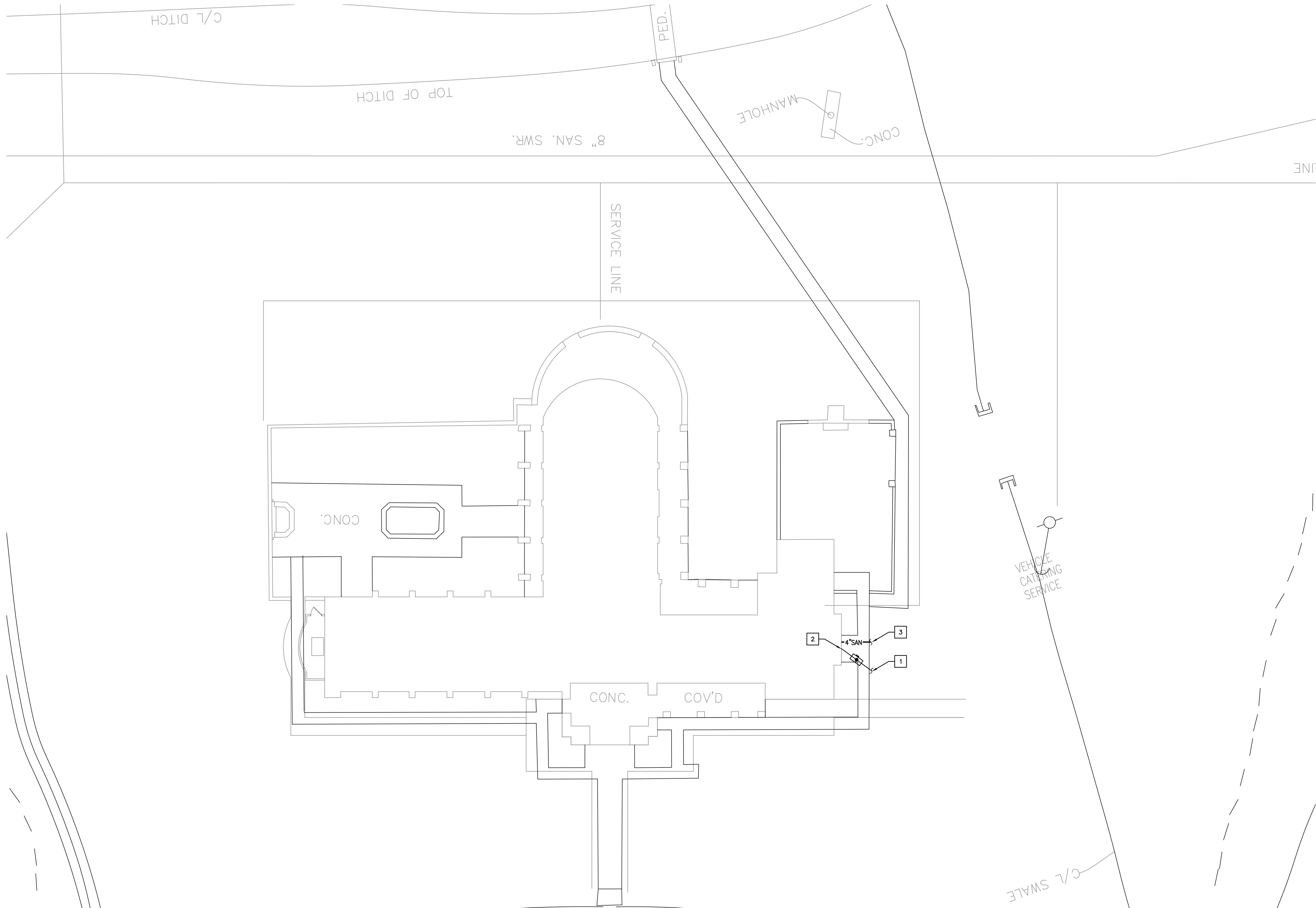
Bradley Kalmans

08-27-2019

TYRRELL PARK VISITOR CENTER RENOVATION
City of Beaumont
5305 Tyrrell Park Road
Beaumont, TX 77705

ISSUED FOR SCHEMATIC DESIGN ☐
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DESIGN DEVELOPMENT ☐
DATE: _____
BIDS & CONSTRUCTION ☒
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DATE: _____
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DATE: _____
REVISION: _____
DATE: _____

DRAWINGS SHEET TITLE
PLUMBING DEMOLITION FLOOR PLAN
SHEET NUMBER
P001
1852
PROJECT NUMBER



- PLUMBING KEYED NOTES:
- 1 NEW 2" DOMESTIC WATER SERVICE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
 - 2 NEW 2" DOMESTIC WATER ENTRY. REFER TO DETAIL 01/P3.01
 - 3 NEW 4" SANITARY. REFER TO CIVIL DRAWINGS FOR CONTINUATION.

1 PLUMBING SITE PLAN
SCALE: 1/16" = 1'-0"

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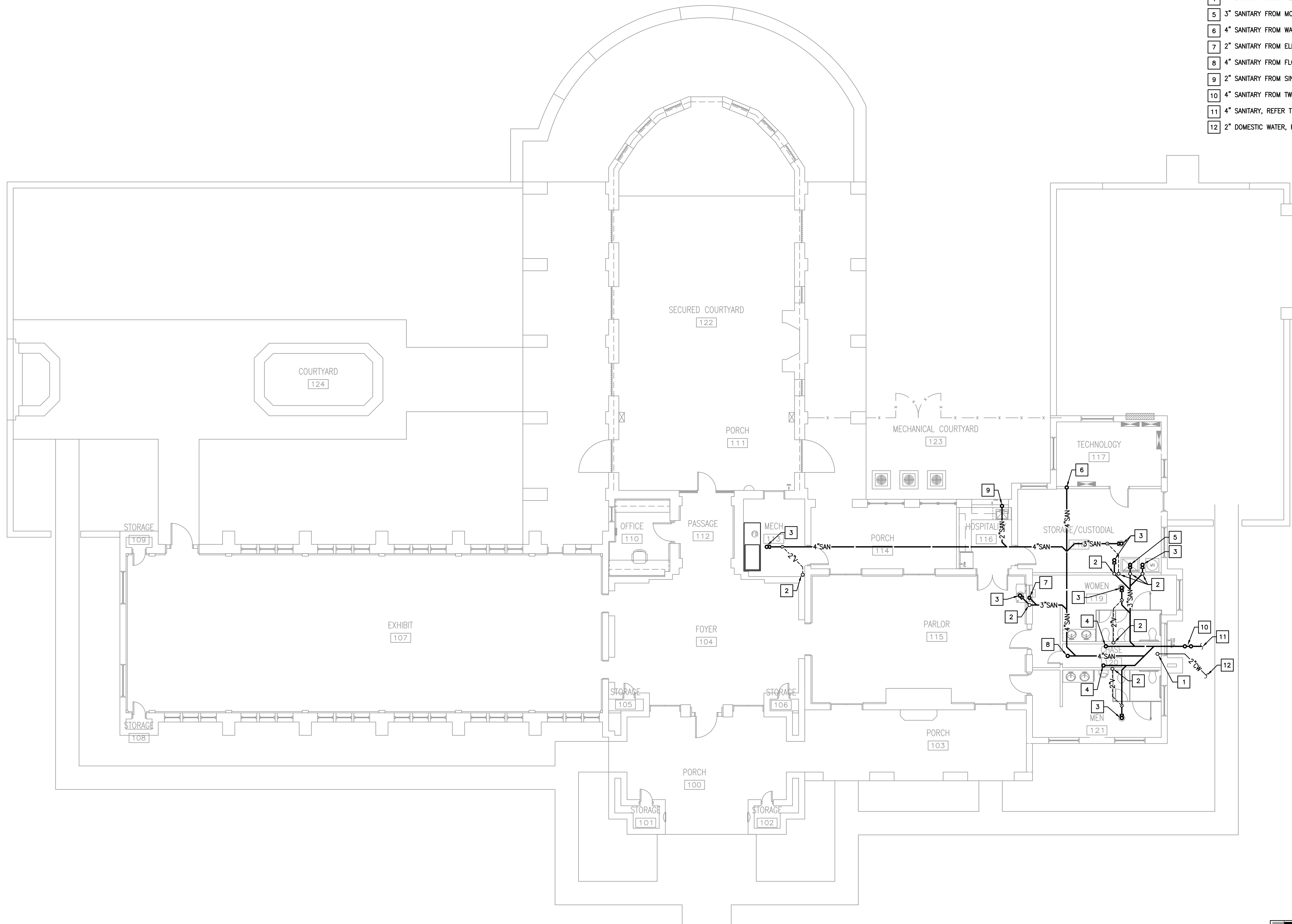
Bradley Kalmans
BRADLEY KALMANS
80219
LICENSED
ARCHITECT
08-27-2019

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City of Beaumont
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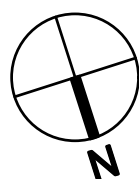
DRAWINGS SHEET TITLE
**PLUMBING
SITE PLAN**

SHEET NUMBER
P101
1852
PROJECT NUMBER



PLUMBING KEYED NOTES:

- 1 2" DOMESTIC WATER ENTRY UP TO ABOVE SLAB. REFER TO DETAIL 01/P3.01.
- 2 2" VENT UP.
- 3 3" SANITARY FROM FLOOR DRAIN/FLOOR SINK ABOVE.
- 4 4" SANITARY FROM PLUMBING FIXTURE ABOVE.
- 5 3" SANITARY FROM MOP SINK ABOVE.
- 6 4" SANITARY FROM WALL CLEANOUT ABOVE.
- 7 2" SANITARY FROM ELECTRIC DRINKING FOUNTAIN ABOVE.
- 8 4" SANITARY FROM FLOOR CLEANOUT ABOVE.
- 9 2" SANITARY FROM SINK ABOVE.
- 10 4" SANITARY FROM TWO-WAY CLEANOUT ABOVE.
- 11 4" SANITARY, REFER TO PLUMBING SITE PLAN P1.01.
- 12 2" DOMESTIC WATER, REFER TO PLUMBING SITE PLAN P1.01.



1 PLUMBING UNDERFLOOR PLAN
SCALE: 1/8" = 1'-0"

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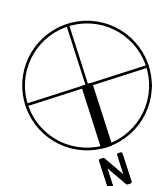
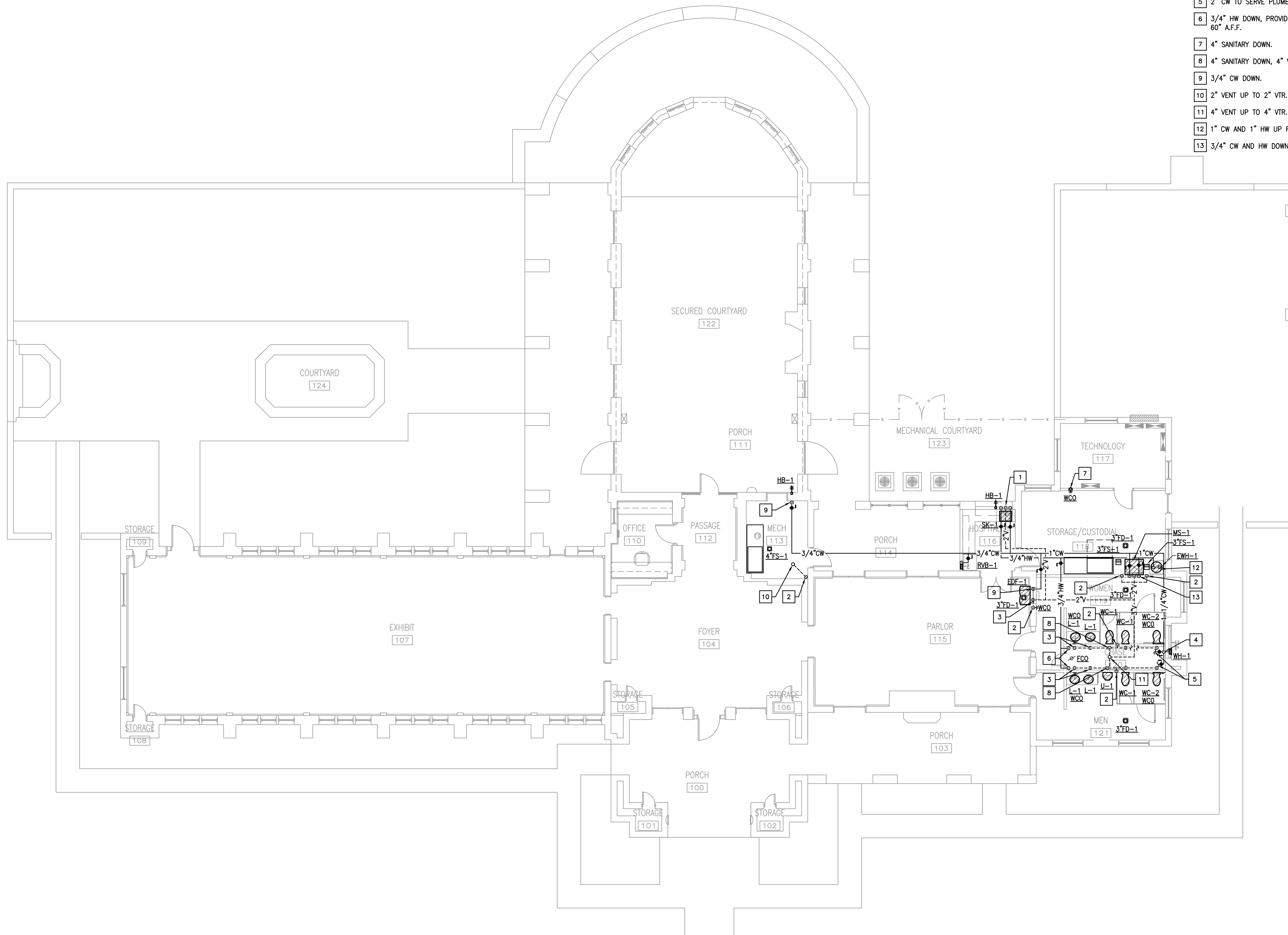
DRAWINGS SHEET TITLE
PLUMBING UNDERFLOOR PLAN
SHEET NUMBER
P201
1852
PROJECT NUMBER

PLUMBING GENERAL NOTES:

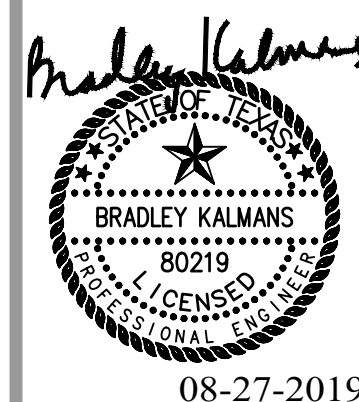
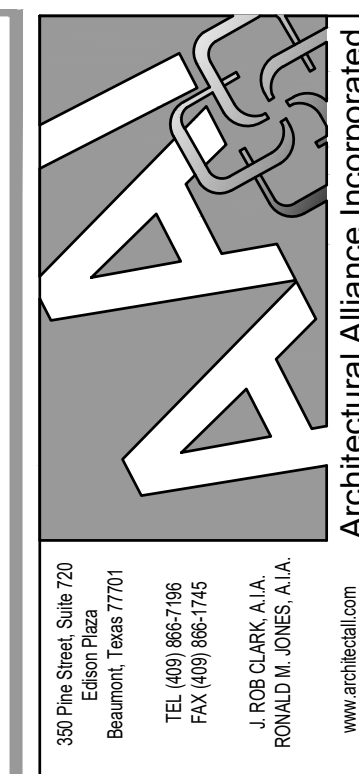
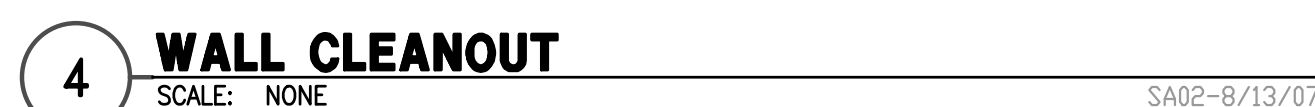
1. ALL WALL CLEANOUTS SHALL BE SET A MINIMUM OF 6" ABOVE THE FLOOD RIM OF THE FIXTURE(S) BEING SERVED.

PLUMBING KEYED NOTES:

- 1 3/4" CW AND HW DOWN, 2" VENT UP, 2" SANITARY DOWN.
- 2 2" VENT FROM BELOW.
- 3 2" SANITARY DOWN, 2" VENT UP.
- 4 2" DOMESTIC WATER ENTRY FROM BELOW. REFER TO DETAIL.
- 5 2" CW TO SERVE PLUMBING FIXTURES.
- 6 3/4" HW DOWN, PROVIDE BALL VALVES IN VERTICAL MAXIMUM 60" A.F.F.
- 7 4" SANITARY DOWN.
- 8 4" SANITARY DOWN, 4" VENT UP.
- 9 3/4" CW DOWN.
- 10 2" VENT UP TO 2" VTR.
- 11 4" VENT UP TO 4" VTR.
- 12 1" CW AND 1" HW UP FROM ELECTRIC WATER HEATER.
- 13 3/4" CW AND HW DOWN, 2" VENT FROM BELOW.



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



TYRRELL PARK VISITOR CENTER RENOVATION

City of Beaumont

Beaumont, TX 77705

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DRAWINGS SHEET TITLE
**PLUMBING
 RISER DIAGRAM
 AND DETAILS**

SHEET NUMBER
P401
1852
PROJECT NUMBER

PLUMBING PIPING LEGEND	
SYMBOLS	DESCRIPTION
—SAN—	SANITARY OR WASTE PIPING ABOVE GRADE (SAN)
—SAN—	SANITARY OR WASTE PIPING BELOW GRADE (SAN)
—CD—	CONDENSTATE DRAIN PIPING (CD)
—D—	CONDENSTATE – INDIRECT DRAIN PIPING (D)
— — — — —	VENT PIPING (V)
—CW—	COLD WATER PIPING (CW)
—HW—	HOT WATER PIPING (HW)
—HWR—	HOT WATER RETURN PIPING (HWR)
—SCW—	SOFT COLD WATER PIPING (SCW)
—CDW—	CHILLED DRINKING WATER PIPING (CDW)
—TP—	TRAP PRIMER LINE (TP)
—F—	FIRE PROTECTION PIPING (F)
—AS—	AUTOMATIC SPRINKLER PIPING (AS)
—GAS—	NATURAL GAS PIPING (G)
	FLOW DIRECTIONAL ARROW
	SHUT-OFF VALVE
	BALANCING VALVE (BV)
	SOLENOID VALVE (SV)
	BALL VALVE (BV)
	BUTTERFLY VALVE
	LUBRICATED PACKED PLUG STOP STOP COCK (PC)
	HORIZONTAL SWING CHECK
	UNION
	HORIZONTAL SWING CHECK
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	REDUCED PRESSURE BACKFLOW PREVENTER (RPBFP)
	PIPING DOWN
	RISE OR DROP PIPING
	PIPING UP -OR- PIPING UP & DOWN
	CAP ON END OF PIPE
	CLEANOUT (WALL OR CEILING) (CO)
	FLOOR CLEANOUT (FCO)
	EXTERIOR CLEANOUT WITH 18"x18"x4" CONCRETE PAD (ECO)
	TWO-WAY CLEANOUT (PROVIDE 18"x24"x4" CONCRETE PAD OUTSIDE)
	PRESSURE REDUCING VALVE (PRV)
	BRANCH CONNECTION OUT OF TOP
	BRANCH CONNECTION OUT OF BOTTOM
	BRANCH CONNECTION OUT OF SIDE
	WYE & 1/8TH BEND BRANCH CONNECTION
	WYE BRANCH CONNECTION
	HOSE BIBB
	PRESSURE GAUGE WITH COCK
	THERMOMETER
	GAS METER
	WALL HYDRANT
	VALVE IN RISE
	ASME TEMPERATURE & PRESSURE RELIEF VALVE
	VACUUM RELIEF VALVE
	ANGLE VALVE
	OS&Y VALVE
	FLOOR SINK (FS)
	FLOOR DRAIN (FD)
	FLOOR DRAIN WITH P-TRAP (FD)
	FLOOR DRAIN WITH P-TRAP AT 45° ANGLE (FD)
	HUB DRAIN (HD)
	ACCESS PANEL FOR TRAP PRIMER OR SHOCK ABSORBER
	ACCESS PANEL LOCATION SYMBOL
	SHOCK ABSORBER
	AIR CHAMBER
(E)	EXISTING
(N)	NEW
VTR	VENT THRU ROOF
B.F.F.	BELOW FINISHED FLOOR
A.F.F.	ABOVE FINISHED FLOOR
	NEW CONNECTION
	INVERT ELEVATION
	DELTA CHANGE SYMBOL
	RISER FLAG

ELEC. WATER HEATER SCHEDULE						
ITEM NO.	KW INPUT	GALS. PER HR. RECOVERY RATE 100°F RISE	STORAGE CAPACITY	ELECTRICAL REQUIRED	STORED WATER TEMP	MANUFACTURER COMMENT
EW-H-1	4.5	18	40 GAL	208V/1ø 60HZ	140°F	A.O. SMITH #DEN-40

DOMESTIC HW EXPANSION TANK SCHED.						
ITEM NO.	DESCRIPTION	MAX. WORK PRESSURE	TANK VOL. GALLONS	MAX. ACCEPT. GALLONS	DIAMETER INCHES	MANUFACTURER AND MODEL
ET-1	HOT WATER EXPANSION TANK	150 PSI	2	1	8"	AMTROL THERM-X-TROL ST-5C
NOTES: 1. ALL EXPANSION TANKS SHALL BE ASME RATED. 2. ET-1 SHALL BE PIPED IN CONJUNCTION WITH EWH-1.						

SHOCK ARRESTOR SCHEDULE				
P.D.I. SYMBOLS:	FIXTURE UNITS:	CHAMBER LENGTH	THREADED CONNECTION:	
	1-11	9-5/8"	1/2"	
	12-32	11-3/4"	3/4"	
	33-60	14-11/16"	1"	
	61-113	12-3/8"	1"	
	114-154	15-3/8"	1"	
	155-330	17-3/8"	1"	

PLUMBING MATERIAL LIST	
ABOVE GRADE, INSIDE BUILDING	
SANITARY WASTE AND VENT PIPING SHALL BE NO-HUB CAST IRON SYSTEM CONFORMING TO CISPI, STANDARD NO. 301-75. NEOPRENE GASKETS SHALL CONFORM TO ASTM STANDARD C564-75, OR, DOMESTIC WATER PIPING SHALL BE DRAWN (HARD) COPPER WATER TUBE, TYPE "L", ASTM B88, WITH WROUGHT COPPER FITTINGS, ANSI B16.22 AND 95-5 SOLDER JOINTS.	
BELOW GRADE, INSIDE BUILDING	
SANITARY WASTE AND VENT PIPING SHALL BE SCHEDULE 40 DWV POLYVINYL CHLORIDE PIPE AND FITTINGS CONFORMING TO ASTM-2665 WITH SOLVENT WELDED JOINTS. DO NOT USE IN AIR SUPPLY OR RETURN PLENUMS, AND OR WHERE FIRE RATED WALLS, PARTITIONS, OR FLOORS ARE PENETRATED. DOMESTIC WATER PIPING SHALL BE ANNEALED (SOFT) COPPER WATER TUBE, TYPE "K", ASTM B88, WITH NO JOINTS OR FITTINGS BELOW SLAB.	

GENERAL NOTES	
1. ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION. 2. THIS CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. SHOULD A CONFLICT OCCUR THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT/ ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.	

PLUMBING FIXTURE SPECIFICATION	
TYPE: DESCRIPTION: WC-1 (STANDARD HEIGHT) WATER CLOSET, WALL HUNG, WHITE VITREOUS CHINA, 1.28 GALLON PER FLUSH SIPHON JET ACTION, ELONGATED CLOSET BOWL WITH 1-1/2" TOP SPUD AND BOLT COVERS.	TYPE: DESCRIPTION: SK-1 – HOSPITALITY SINK (ADA COMPLIANT) SINK, COUNTER MOUNTED, SELF-RIMMING, 18 GAUGE TYPE 304 STAINLESS STEEL, 22" X 19" X 5" DEEP, SINGLE COMPARTMENT WITH FAUCET DECK. THREE FAUCET HOLES ON 4" CENTERS.
SEAT: AMERICAN STANDARD "AFWALL MILLENNIUM" #2257.101. ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF SUSTAINING CONCEALED CHECK HINGES. BEMIS 1955SSCT.	FAUCET: CHROME PLATED BRASS DECK MOUNTED FITTING WITH 11-3/4" HIGH SWING SPOUT AND 4" WRIST BLADE HANDLES ON 8" CENTERS. QUARTER TURN CERAMIC DISC OPERATING CARTRIDGES, VANDAL RESISTANT 2.2 GPM AERATOR.CHICAGO #1100-HAB-317XK-E12VPJKCP.
FLUSH VALVE: 1.28 GALLON FLUSH CYCLE. EXPOSED, PISTON TYPE, CHROME PLATED CLOSET FLUSHOMETER. VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD. AMERICAN STANDARD #6047.121.002.	STRAINER: CHROME PLATED WROUGHT BRASS 4-1/2" WIDE GRID SINK STRAINER, 1-1/4" 20 GAUGE CHROME PLATED BRASS TAILPIECE. MCGUIRE #152.
CARRIER: WADE 310, 330, 340 SERIES.	SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE #2165LK.
ROUGH-IN: 4" WASTE, 2" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.	ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
TYPE: DESCRIPTION: WC-2 (T.A.S. COMPLIANT) WATER CLOSET, WALL HUNG, WHITE VITREOUS CHINA, 1.28 GALLON PER FLUSH SIPHON JET ACTION, ELONGATED CLOSET BOWL WITH 1-1/2" TOP SPUD AND BOLT COVERS.	TYPE: DESCRIPTION: HB-1 – COLD WATER HOSE BIBB, EXPOSED TYPE, MILD CLIMATE, WALL-MOUNTED FAUCET WITH 3/4" F.P.T. INLET, 3/4" MALE HOSE THREAD OUTLET AND SELF-DRAINING ANTI-SIPHON VACUUM BREAKER. CHROME PLATED BRASS FINISH WITH REMOVABLE TEE HANDLE. CHICAGO 952-CP.
SEAT: AMERICAN STANDARD "AFWALL MILLENNIUM" #2257.101. ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF SUSTAINING CONCEALED CHECK HINGES. BEMIS 1955SSCT.	ROUGH-IN: 3/4" COLD WATER. INSTALL WITH OUTLET AT 18" A.F.F. OR AS DIRECTED BY ARCHITECT/OWNER.
FLUSH VALVE: 1.28 GALLON FLUSH CYCLE. EXPOSED, PISTON TYPE, CHROME PLATED CLOSET FLUSHOMETER. VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD. AMERICAN STANDARD #6047.121.002.	TYPE: DESCRIPTION: RVB-1 RECESSED VALVE BOX, 10-3/4" X 9", 18 GAUGE STEEL WITH WHITE POWDER COAT FINISH, 5/8" O.D. SWEAT CONNECTION. PROVIDE FILTER WHEN MAKING FINAL CONNECTION. GUY GRAY BIM-875 WITH AQUA-PURE AP717 FILTER.
CARRIER: WADE 310, 330, 340 SERIES.	ROUGH-IN: 1/2" COLD WATER
ROUGH-IN: 4" WASTE, 2" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.	TYPE: DESCRIPTION: WH-1 WALL HYDRANT IN S.S. BOX, 3/4" NON FREEZE, HALF TURN CERAMIC DISC CARTRIDGE, STAINLESS STEEL FINISH WITH ANTI SIPHON VACUUM BREAKER AND LOOSE TEE KEY. INSTALL WITH BOTTOM OF HYDRANT 18" A.F.F. WADE 8601-MT-175.
TYPE: DESCRIPTION: U-1 (T.A.S. COMPLIANT) URINAL, WALL HUNG, WHITE VITREOUS CHINA, 0.5 GALLON PER FLUSH, WASHOUT FLUSH ACTION, INTEGRAL TRAP, REMOVABLE DOMED STRAINER. AMERICAN STANDARD "WASHBROOK" #6590.001	ROUGH-IN: 3/4" COLD WATER
FLUSH VALVE: 0.5 GALLON FLUSH CYCLE. EXPOSED, PISTON TYPE, CHROME PLATED URINAL FLUSHOMETER. VACUUM BREAKER, SPUD COUPLING FOR 3/4" TOP SPUD. AMERICAN STANDARD #6045.051.	TYPE: SERVICE: FD-1 TOILET ROOMS AND GENERAL USE FLOOR DRAIN
CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 4" SQUARE BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, UPPER AND LOWER BEARING PLATES WITH THREADED STUDS. WADE 400-AM11.	DESCRIPTION: CAST IRON BODY, ADJUSTABLE 6" DIAMETER STAINLESS STEEL STRAINER WITH VANDAL PROOF SCREWS, INTEGRAL CLAMPING DEVICE, BOTTOM OUTLET. WADE #1100-MRG.
ROUGH-IN: 2" WASTE, 2" VENT, 3/4" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.	TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER. REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS/FLOOR CONSTRUCTION.
TYPE: DESCRIPTION: L-1 (T.A.S. COMPLIANT) – HOT AND COLD WATER LAVATORY, COUNTER MOUNT, VITREOUS CHINA, 20-3/8" X 17-3/8" WITH FRONT OVERFLOW, FAUCET HOLES ON 4" CENTERS.	ROUGH-IN: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK.
FAUCET: AMERICAN STANDARD "AQUALYN" 0476.028. CHROME PLATED VANDAL RESISTANT BRASS DECK MOUNTED LAVATORY FAUCET WITH 4" SPOUT, PUSH BUTTON METERING CARTRIDGE AND ESCUTCHEON PLATE ON 4" CENTERS. SELF CLOSING AUTO TIMED METERING CARTRIDGE, VANDAL RESISTANT 2.2 GPM AERATOR. CHICAGO MODEL 857-E2805-665PSHAB.	TYPE: DESCRIPTION: ECO EXTERIOR CLEANOUT TO GRADE, CAST IRON BODY WITH TOP ASSEMBLY WITH PRIMARY GASKET SEAL, AND ROUND SCORIATED VANDAL RESISTANT DUCTILE IRON TRACTOR TYPE COVER. IF LOCATED IN ASPHALT OR DIRT PROVIDE 18"x18"x12" CONCRETE PAD. WADE #6000-Z.
MIXING VALVE: ASSE 1070 CERTIFIED POINT OF USE BRASS MIXING VALVE SET TO 105 DEGREES FARENHEIT. INTEGRAL CHECK VALVES AND MOUNTING BRACKET BRADLEY #559-4007	TYPE: DESCRIPTION: FCO FLOOR CLEANOUT, CAST IRON BODY TOP ASSEMBLY WITH PRIMARY GASKET SEAL, AND ROUND SCORIATED STAINLESS STEEL COVER. WADE 6000-153. FOR CARPETED FLOORS PROVIDE WADE 6000-CM.
STRAINER: 1-1/4" 17 GAUGE CHROME PLATED BRASS GRID STRAINER WITH TAILPIECE. MCGUIRE #155A.	TYPE: DESCRIPTION: WCO WALL CLEANOUT, CAST IRON CLEANOUT FERRULE WITH DUCTILE IRON COVER/PLUG AND ROUND STAINLESS COVER PLATE WITH CENTER SECURING SCREW. WADE #8550 WITH 8480-R6. PROVIDE WADE 8560 CAST IRON CLEANOUT TEE IN LIEU OF FERRULE AS REQUIRED FOR WALL CONSTRUCTION.
P-TRAP: 1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8872.	GENERAL NOTES: ALL LAVATORIES AND SINKS SHALL BE SUPPLIED WITH HOT AND COLD WATER TO FAUCETS AS INDICATED ON PLANS AND FIXTURE SCHEDULE. PROVIDE CHROME PLATED BRASS SUPPLY STOPS WITH LOOSE KEYS AND WALL ESCUTCHEONS. PROVIDE CHROME PLATED FLEXIBLE RISERS OF SIZE REQUIRED TO PROPERLY CONNECT FIXTURES. PROVIDE 17 GAUGE CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON. REFER TO FIXTURE SCHEDULE FOR MINIMUM SIZES OF PLUMBING FIXTURE ROUGH-INS. INSULATION KITS AT ALL LAVATORIES AND SINKS REQUIRED TO BE T.A.S. ACCESSIBLE (MCGUIRE OR TRUEBRO). ALL SUCH FIXTURES AND FINAL INSTALLATIONS SHALL COMPLY WITH THE STATE ACCESSIBILITY STANDARDS REQUIREMENTS. INSERT TRAP GUARDS AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS-TIGHT SEAL. FOR DRAIN RODDING AFTER INSTALLATION. INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1-1/2" PVC PIPE TO PROTECT TRAP GUARD.
SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK.	
CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE SLAB WITH (4) 1/2" BOLTS. ADJUSTABLE SLEEVE FOR CONNECTION TO HANGER PLATE PROVIDED BY FIXTURE MANUFACTURER. WADE 400.	
ROUGH-IN: 2" WASTE, 2" VENT, 1/2" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.	
TYPE: DESCRIPTION: MS-1 MOP SINK BASIN, 36" X 24" X 12" HIGH. PRECAST TERRAZZO WITH STAINLESS STEEL THRESHOLD CAPS ON ALL FOUR SIDES, AND STAINLESS STEEL WALL GUARD.	
FAUCET: STERN-WILLIAMS "SERVICEPTOR" SB-250. CHROME PLATED BRASS WALL MOUNTED FITTING WITH INTEGRAL CHECK STOPS, ADJUSTABLE SUPPLY ARMS, VACUUM BREAKER SPOUT WITH PAIL HOOK AND WALL BRACE, 2-1/2" INDEXED LEVER HANDLES ON 8" CENTERS. QUARTER TURN CARTRIDGES, 3/4" MALE HOSE THREAD OUTLET. CHICAGO #445-897SRXKCCP.	
ROUGH-IN: 3" WASTE, 2" VENT, 1/2" HOT AND COLD WATER.	
DISREGARD FIXTURES LISTED THAT ARE NOT ON THIS JOB.	

389794 Street, Suite 720
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www.architectall.com

08-27-2019

TYRRELL PARK VISITOR CENTER RENOVATION

City of Beaumont

5305 Tyrell Park Road
Beaumont, TX 77705

ISSUED FOR SCHEMATIC DESIGN ☐

DATE: _____

DESIGN DEVELOPMENT ☐

DATE: _____

BIDS & CONSTRUCTION ☒

DATE: 05/31/2019

REVISION: _____

DATE: _____

REVISION: _____

DATE: _____

REVISION: _____

DATE: _____

DRAWINGS SHEET TITLE

PLUMBING
LEGEND AND
SCHEDULES

SHEET NUMBER

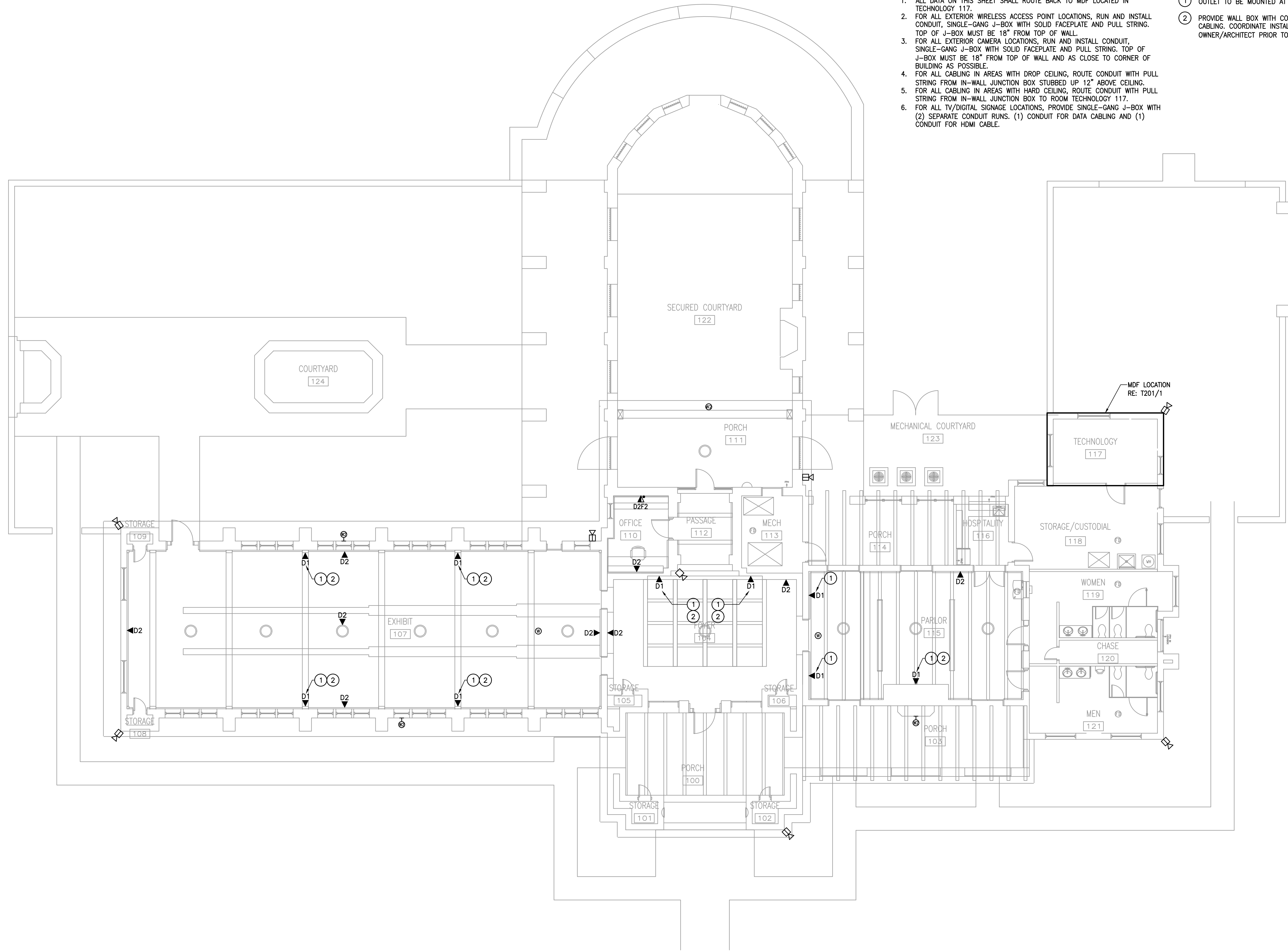
P501

1852

PROJECT NUMBER

SALAS O'BRIEN
(expect a difference)

10930 W. Sam Houston Parkway N., Suite 900
Houston, Texas 77064
281.664.1900 | Registration No. F-4111
Project No. 017-190133

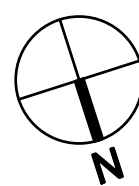


TECHNOLOGY GENERAL NOTES.

1. ALL DATA ON THIS SHEET SHALL ROUTE BACK TO MDF LOCATED IN TECHNOLOGY 117.
2. FOR ALL EXTERIOR WIRELESS ACCESS POINT LOCATIONS, RUN AND INSTALL CONDUIT, SINGLE-GANG J-BOX WITH SOLID FACEPLATE AND PULL STRING. TOP OF J-BOX MUST BE 18" FROM TOP OF WALL.
3. FOR ALL EXTERIOR CAMERA LOCATIONS, RUN AND INSTALL CONDUIT, SINGLE-GANG J-BOX WITH SOLID FACEPLATE AND PULL STRING. TOP OF J-BOX MUST BE 18" FROM TOP OF WALL AND AS CLOSE TO CORNER OF BUILDING AS POSSIBLE.
4. FOR ALL CABLING IN AREAS WITH DROP CEILING, ROUTE CONDUIT WITH PULL STRING FROM IN-WALL JUNCTION BOX STUBBED UP 12" ABOVE CEILING.
5. FOR ALL CABLING IN AREAS WITH HARD CEILING, ROUTE CONDUIT WITH PULL STRING FROM IN-WALL JUNCTION BOX TO ROOM TECHNOLOGY 117.
6. FOR ALL TV/DIGITAL SIGNAGE LOCATIONS, PROVIDE SINGLE-GANG J-BOX WITH (2) SEPARATE CONDUIT RUNS. (1) CONDUIT FOR DATA CABLING AND (1) CONDUIT FOR HDMI CABLE.

TECHNOLOGY KEYED NOTES.

- ① OUTLET TO BE MOUNTED AT +96" A.F.F. FOR DIGITAL SIGNAGE.
- ② PROVIDE WALL BOX WITH CONDUIT ROUTED TO TV FOR HDMI CABLING. COORDINATE INSTALLATION REQUIREMENTS WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.



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

**SALAS O'BRIEN**
[expect a difference]

10930 W. Sam Houston Parkway N., Suite 900
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281.664.1900 | Registration No. F-4111
Project No. 017-190133

TYRRELL PARK VISITOR CENTER RENOVATION

City of Beaumont

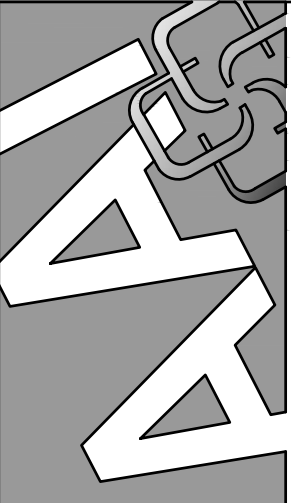
5305 Tyrell Park Road

Beaumont, TX 77705

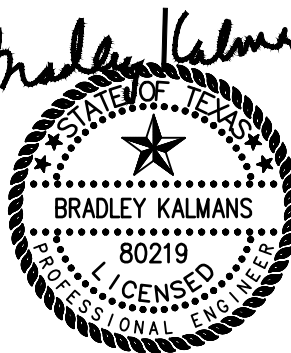
ISSUED FOR SCHEMATIC DESIGN	☐
DATE:	
DESIGN DEVELOPMENT	☐
DATE:	
BIDS & CONSTRUCTION	☒
DATE: 05/31/2019	
REVISION:	
DATE:	
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DATE:	

DRAWINGS SHEET TITLE
TECHNOLOGY
FLOOR PLAN

SHEET NUMBER
T101
1852
PROJECT NUMBER

**Architectural Alliance Incorporated**

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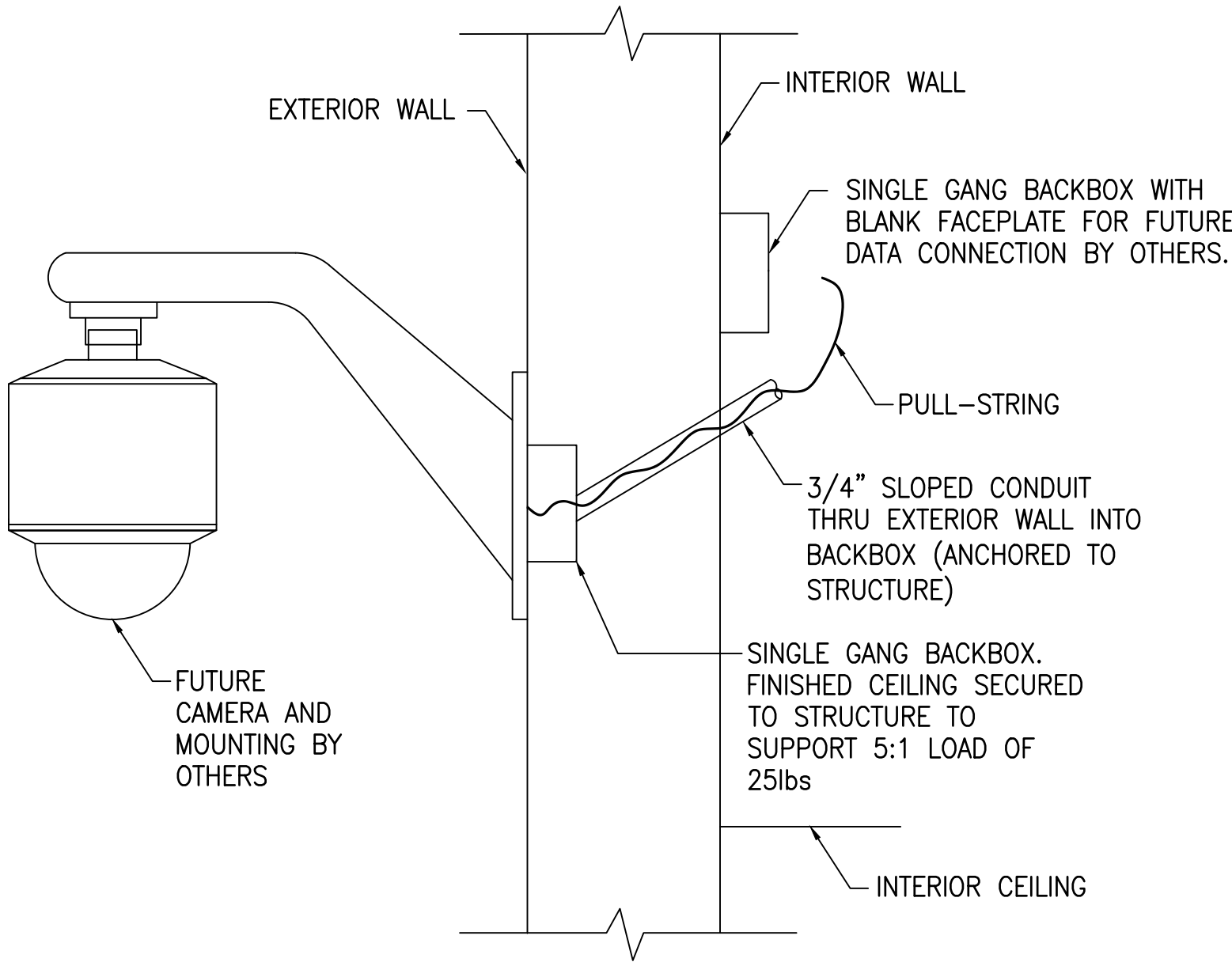
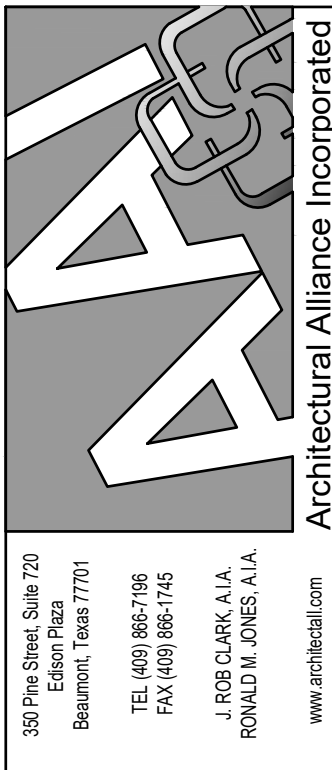
**Bradley Kalmans**
80219
08-27-2019

TECHNOLOGY GENERAL NOTES:

1. VERIFY MOUNTING HEIGHTS OF ALL DEVICES WITH CASEWORK ELEVATIONS PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL DRAWINGS FOR ROOM ELEVATIONS FOR LOCATION AND COORDINATION OF ELECTRICAL OUTLETS. AT KNEESPACE LOCATIONS, LOCATE DROPS WITHIN KNEESPACE ADJACENT TO ELECTRICAL OUTLET, UNLESS NOTED OTHERWISE. AT COUNTERS WITHOUT KNEESPACE, LOCATE DROPS HORIZONTALLY 6-INCHES ABOVE BACK SPLASH, UNLESS NOTED OTHERWISE.

SYMBOL SCHEDULE

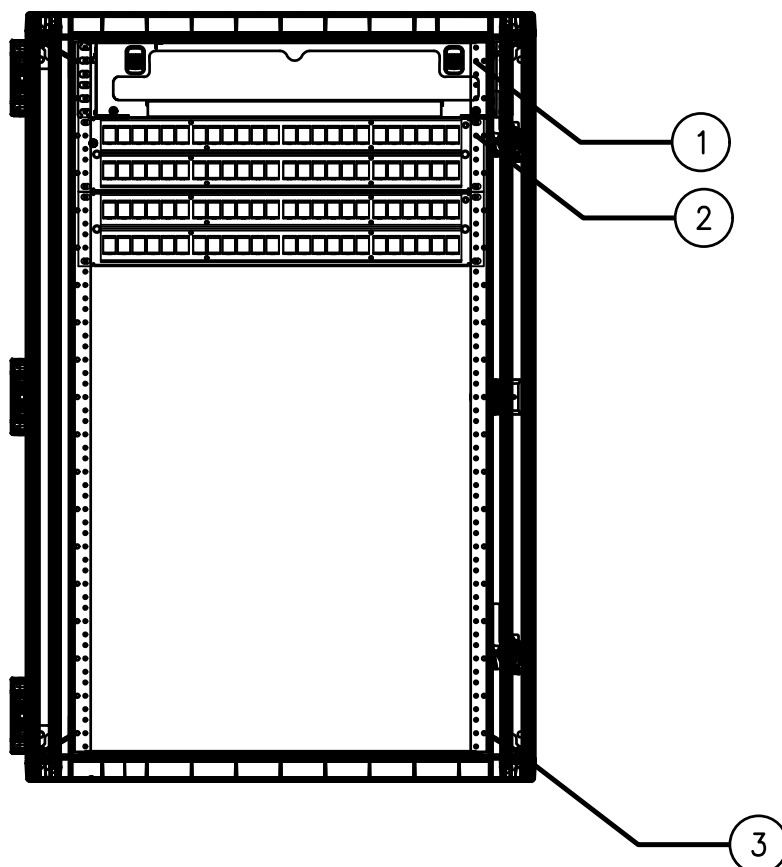
SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
DATA AND COMMUNICATION DEVICES	
◀D#	DATA OUTLET WITH CABLE AND TERMINATION QUANTITIES AS INDICATED
◀D#	CEILING MOUNTED DATA OUTLET WITH CABLE AND TERMINATION QUANTITIES AS INDICATED
◀F#	FAX OUTLET WITH CABLE AND TERMINATION QUANTITIES AS INDICATED. MOUNT TO PHONE PLATE. INSTALL AT +48" A.F.F. UNLESS NOTED OTHERWISE.
◀D#F#	COMBINATION DATA & FAX OUTLET WITH CABLE AND TERMINATION QUANTITIES AS INDICATED. +18" A.F.F.
⊙	WIRELESS ACCESS POINT EXTENDER LOCATION. PROVIDE (1) DATA DROP AT LOCATION INDICATED.
⊙	EXTERIOR WIRELESS ACCESS POINT EXTENDER LOCATION. PROVIDE (1) DATA DROP AT LOCATION INDICATED.
SAFETY AND SECURITY	
☒	SECURITY CAMERA LOCATION. PROVIDE (1) DATA CABLE AT EACH LOCATION.
☒	EXTERIOR SECURITY CAMERA ROUGH-IN LOCATION ONLY.
SUBSCRIPTS AND ABBREVIATIONS	
WP	INDICATES WEATHERPROOF
WG	INDICATES WIREGUARD
•	NEXT TO ANY SYMBOL INDICATES FINAL ROUGH-IN FIELD COORDINATION BY CONTRACTOR WITH ARCHITECTURAL MILLWORK DRAWINGS AND OTHER TRADES.
—	NEXT TO ANY SYMBOL INDICATES DEVICE IS WALL MOUNTED.



3 EXTERIOR WALL MOUNTED CAMERA DETAIL
SCALE: N.T.S.

TECHNOLOGY KEYED NOTES:

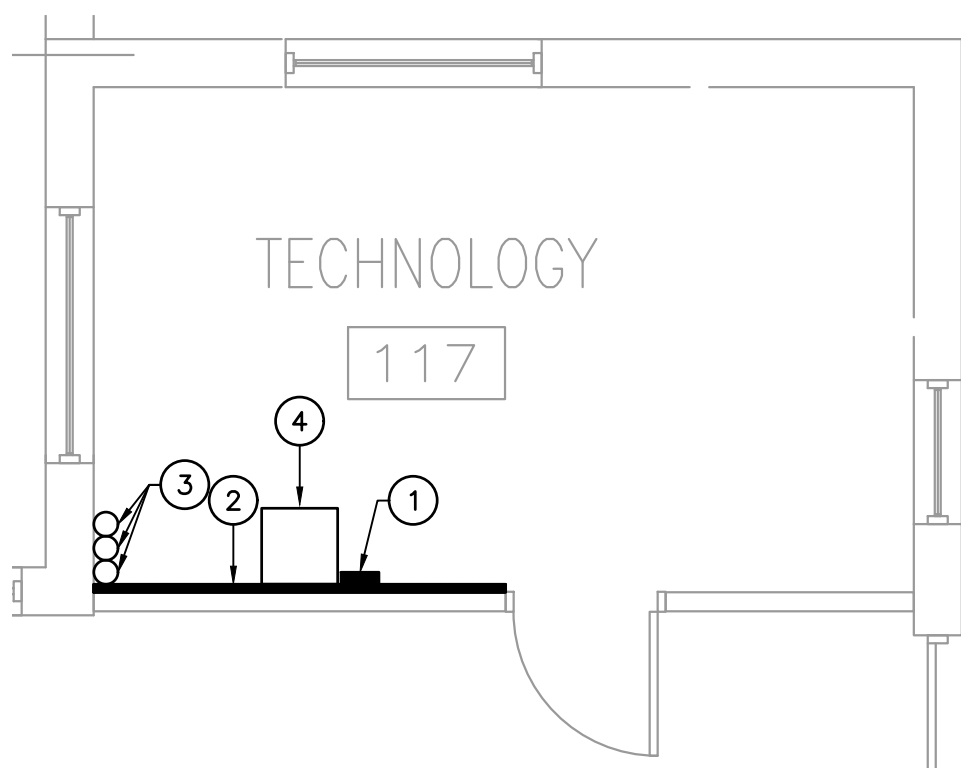
- 1 CONTRACTOR SHALL FURNISH 2RU FIBER OPTIC ENCLOSURE FOR TERMINATION OF FIBER BACKBONE TIE.
2 CONTRACTOR SHALL FURNISH 4RU 96-PORT PATCH PANEL FOR TERMINATION OF NEW CABLING. QUANTITY SHOWN FOR REFERENCE ONLY. PROVIDE NECESSARY AMOUNT.
3 CONTRACTOR SHALL FURNISH WALL MOUNT CABINET WITH FAN KIT AS SPECIFIED.



2 TYPICAL WALL MOUNT DATA CABINET DETAIL
SCALE: NONE

TECHNOLOGY KEYED NOTES:

- 1 TMGB STYLE GROUNDING BUS BAR
2 FIRE RATED PLYWOOD. COVER ENTIRE WALL.
3 (3) 3" CONDUIT RUNNING TO BUILDING EXTERIOR FOR INCOMING PROVIDER CONNECTIONS. COORDINATE WITH CITY OF BEAUMONT COMMUNICATIONS DIVISION FOR EXACT LOCATION OF CONDUIT ROUTING.
4 WALL MOUNTED RACK. COORDINATE WITH CITY OF BEAUMONT TECHNOLOGY SERVICES FOR EXACT MOUNTING.



1 ENLARGED MDF/TECHNOLOGY 117
SCALE: 1/4" = 1'-0"



TYRRELL PARK VISITOR CENTER RENOVATION

City of Beaumont

5305 Tyrrell Park Road
Beaumont, TX 77705

ISSUED FOR SCHEMATIC DESIGN ☐
DATE: _____
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DRAWINGS SHEET TITLE
TECHNOLOGY SCHEDULES, DETAILS AND LEGEND

SHEET NUMBER
T201
1852
PROJECT NUMBER