ADDENDUM NO. 1 PUBLIC WORKS ADDITIONS CITY OF PARAGOULD PARAGOULD, ARKANSAS Project No. 23044

September 5, 2024

Lewis, Elliott, McMorran, Vaden, Ragsdale & Woodward, Inc. 11225 Huron Lane, Suite 104 Little Rock, AR 72211 Telephone: (501) 223-9302

The proposed Contract Documents, dated August 16, 2024, have been modified as follows:

Pertaining to the Specifications:

ALL APPROVED SUBSTITUTION REQUESTS SHALL BE HELD TO THE SPECIFICATIONS AS WRITTEN SPECIFICALLY FOR THIS PROJECT.

Item #1: Section 08 71 00 – Door Hardware (Revised): Attached with hardware sets.

Pertaining to the Drawings:

Item #2: Sheet AD1.1 (attached): Sill detail shown for all new sectional doors with the intent to direct water away from the interior of the building.

Item #3: Sheet A1.0, detail 1, Demolition Plan – Building A: Add note to demolish slab of existing pit as required for install of new concrete slab.

Item #4: Sheet A2.1, detail 1, Building B – Floor Plan: Lobby 108 should be in the space to the east of Reception 201 (between grids B3 and B6). See Life Safety Plan for location of Lobby 108. Door 203.2 shall swing out.

Item #5: Sheet A2.1, detail 2, Building A, Clarification: Mechanical platform is intended to be above Cust. 104, TLT 103, and TLT 102. See 3/S4.1.

Item #6: Sheet A3.1, Building A (existing) Elevations, Clarifications: Intent is to remove existing metal wall panels on the south, east, and west sides of Building A, and reinstall new concealed fastener metal wall panels (MTL-2) in place of the removed panels.

Item #7: Sheet A4.1, Revised 2024 09-05 (attached): Revised to better show accurate and applicable wall section cut marks.

Item #8: Sheet A8.1, Door Schedule: Door 104.1 shall be 3'-0" in width.

Item #9: Sheet A9.1, Material Key: At Ceiling Category, EXP-1 should read 'Exposed Structure Paint'. Intent at Building C, Building D, and Tools 105 is for all exposed structure (PEMB frames, girts, purlins, etc) to be painted.

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Addendum No. 1 Public Works Additions City of Paragould Paragould, Arkansas Page 1 of 2 Item #10: Sheet S2.1, Foundation Plan – Building B: Floor Drain shown in corridor should be

located in Women's restroom as shown on Plumbing drawings.

Item #11: Sheets E1.0 and E7.1– Electrical Site Plan and Lighting Schedule (Revised 2024 09-05):

Attached.

END OF ADDENDUM NO. 1

DOOR HARDWARE

PART ONE - GENERAL

1.1 DESCRIPTION

1.1.1 <u>Work included:</u> Furnish and deliver to the job site all finish hardware required to complete the Work as indicated on the Drawings and specified herein. Provide all trim attachments, and fastenings specified or required for proper complete installation.

1.2 QUALITY ASSURANCE

- 1.2.1 <u>Qualifications of manufacturers:</u> Products used in the work of this Section shall be produced by manufacturers regularly engaged in manufacture of similar items and with a history of successful production acceptable to the Architect.
- 1.2.2 Fire rated openings: Comply with the requirements of Underwriters' Laboratories, Inc.
- 1.2.3 <u>Supplier Qualifications</u>: A recognized architectural door finish hardware supplier, with warehouse facilities in the project's vicinity and that employs an Architectural Hardware Consultant (AHC).

1.3 SUBMITTALS

- 1.3.1 <u>General:</u> Comply with the provisions of Section 01 33 23.
- 1.3.2 <u>Product data:</u> If proposed products are other than as specified, within 35 calendar days after award of the Contract, submit:
 - A. Complete materials list of all items proposed to be furnished and delivered under this Section.
 - 1. Identify each hardware item by manufacturer, the manufacturer's catalog number, and the location of the item in the Work.
 - 2. Submit a detailed, vertical type hardware schedule conforming to DHI format organized into "hardware sets".
 - B. Manufacturer's specifications, catalog cuts, and other data required to demonstrate compliance with specified hardware.

Approval of the hardware list by the Architect shall not relieve the Contractor from the responsibility for furnishing all required finish hardware.

1.3.3 <u>Templates:</u> In a timely manner to ensure orderly progress of the Work, deliver templates or physical samples of the approved finish hardware items to pertinent manufacturers of interfacing items such as doors and frames.

1.4 PRODUCT HANDLING

- 1.4.1 <u>Packing and marking:</u> Individually package each unit of finish hardware, complete with proper fastenings and appurtenances, clearly marked on the outside to indicate the contents and specific location in the Work.
- 1.4.2 <u>Protection:</u> Use all means necessary to protect materials of this Section before, during and after delivery to the job site and to protect the Work and materials of all other trades.
- 1.4.3 <u>Replacements:</u> In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect and at no additional cost to the Owner.

PART TWO - PRODUCTS

- 2.1 SUBSTITUTIONS
- 2.1.1 Hinges: McKinney as specified, Stanley or Ives equal. No other substitutions.
- 2.1.2 <u>Locksets and Cylinders</u>: Sargent as specified, Schlage, or Best equal. No other substitutions.
- 2.1.3 Exit Devices: Sargent as specified, Von Duprin or Best equal. No other substitutions.
- 2.1.4 Closers: Sargent as specified, LCN or Stanley equal. No other substitutions.
- 2.1.5 <u>Fasteners:</u>
- 2.1.5.1 Furnish all finish hardware with all necessary screws, bolts, and other fasteners of suitable size and type to anchor the hardware in position for long life under hard use.
- 2.1.5.2 Furnish fastenings where necessary with expansion shields, toggle bolts, hex bolts, and other anchors approved by the Architect, according to the material to which the hardware is to be applied and the recommendations of the hardware manufacturer.
- 2.1.5.3 All fastenings shall harmonize with the hardware as to material and finish.
- 2.1.6 Finishes of all hardware shall match the finish of the locksets. Take special care to coordinate all the various manufactured items furnished under this Section, to ensure acceptably uniform finish.
- 2.2 MISCELLANEOUS
- 2.2.1 All hardware meets criteria for Handicap Accessibility Requirements of ADA.
- 2.2.2 All other items, not specifically described but required for a complete and proper installation of finish hardware, shall be as selected by the Contractor subject to the approval of the Architect.

2.3 KEYING

All locksets shall be keyed to a new Master Key System. All locksets shall be keyed alike in groups or keyed different as directed. Furnish six Master Keys. Furnish four keys for each keyed alike set and two keys for each keyed different lockset. Stamp key bows with key set symbol. BEFORE ORDERING, CONFIRM IF OWNER HAS EXISTING KEY SYSTEM.

It will be the responsibility of the hardware supplier to call or meet with the Owner to obtain keying requirements for this project.

2.4 MANUFACTURERS INDEX

Mc – McKinney Mfg. Co. R – Rockwood Mfg. Co.

F - Folger Adam H - HES

 $\begin{array}{ll} N-Norton & P-Pemko\ Products \\ S-Sargent\ Lock\ Co & ST-Stanley\ Hardware \end{array}$

2.5 HARDWARE GROUPS

The following is a general listing of the minimum hardware requirements. Any item of hardware normally required by good practice as to meet state or local codes shall be furnished even though it may not be specifically mentioned.

<u>HW-1 – Each door (ALUM Exterior Door) to have:</u>

Mc	3	Hinges	TA2714 4.5 x 4.5 US26D NRP
S	1	Exit Device	8804 PSB US32D
Н	1	Electric Strike	9600 US32D
S	1	Door Closer	EN281-CPS
R	1	Kick Plate	K3125 10" x DW-2 US32D
P	1	Threshold	170 A x Opening Width
P	1	Door Bottom	315 CN x Door Width
P	1	Weatherstrip	303AV W x H
P	1	Drip Cap	346D x DW + 4"

HW-2 – Each door to have: (Exterior Steel Door with Exit Device and Access Control)

Mc	3	Hinges	TA2/14 4.5 x 4.5 US26D NRP
S	1	Exit Device	8804 PSB US32D
Н	1	Electric Strike	9600 US32D
S	1	Door Closer	EN281-CPS
R	1	Kick Plate	K3125 10" x DW-2 US32D
P	1	Threshold	170 A x Opening Width
P	1	Door Bottom	315 CN x Door Width
P	1	Weatherstrip	303AV W x H
P	1	Drip Cap	$346D \times DW + 4$ "

<u>HW-3 – Each door (Exterior Office Steel Door) to have:</u>

Mc	3	Hinges	TA2714 4.5 x 4.5 US26D NRP
S	1	Exit Device	8804 PSB US32D
Н	1	Electric Strike	9600 US32D
S	1	Door Closer	EN281-CPS
R	1	Kick Plate	K3125 10" x DW-2 US32D
P	1	Threshold	170 A x Opening Width
P	1	Door Bottom	315 CN x Door Width
P	1	Weatherstrip	303AV W x H
P	1	Drip Cap	$346D \times DW + 4$ "

<u>HW-4 – Each door to have:</u>

Mc	3	Hinges	TA2714 4.5 x 4.5 US26D NRP
S	1	Exit Device	8804 PSB US32D
Н	1	Electric Strike	9600 US32D
S	1	Door Closer	EN281-CPS
R	1	Kick Plate	K3125 10" x DW-2 US32D
P	1	Threshold	170 A x Opening Width
P	1	Door Bottom	315 CN x Door Width
P	1	Weatherstrip	303AV W x H
P	1	Drip Cap	346D x DW + 4"

Note: Door hardware is for future access control capabilities.

<u>HW-5 – Each door to have:</u>

Mc	3	Hinges	TA2714 4.5 x 4.5 US26D
S	1	Lockset	28-10G04 LL US26D
Н	1	Electric Strike	8000C US32D
S	1	Closer	EN1431-UO x TB
R	1	Wall Stop	409 US32D
R	3	Silencers	608

<u>HW-6 – each door to have:</u>

Mc	3	Hinges	TA2714 4.5 x 4.5 US26D
S	1	Lockset	28-10G05 LL US26D
R	1	Wall Stop	409 US32D
R	3	Silencers	608

<u>HW-7 – each door (Interior Wood door) to have:</u>

Mc	3	Hinges	TA2714 4.5 x 4.5 US26D NRP
S	1	Exit Device	8804 PSB US32D
Н	1	Electric Strike	9600 US32D
S	1	Door Closer	EN281-CPS
R	1	Kick Plate	K3125 10" x DW-2 US32D

<u>HW-8 – Each door to have:</u>

Mc	3	Hinges	TA2714 4.5 x 4.5 US26D
S	1	Privacy Set	28-10U65 LL US26D
S	1	Closer	EN1431-UO x TB
R	1	Wall Stop	409 US32D
R	3	Silencers	608

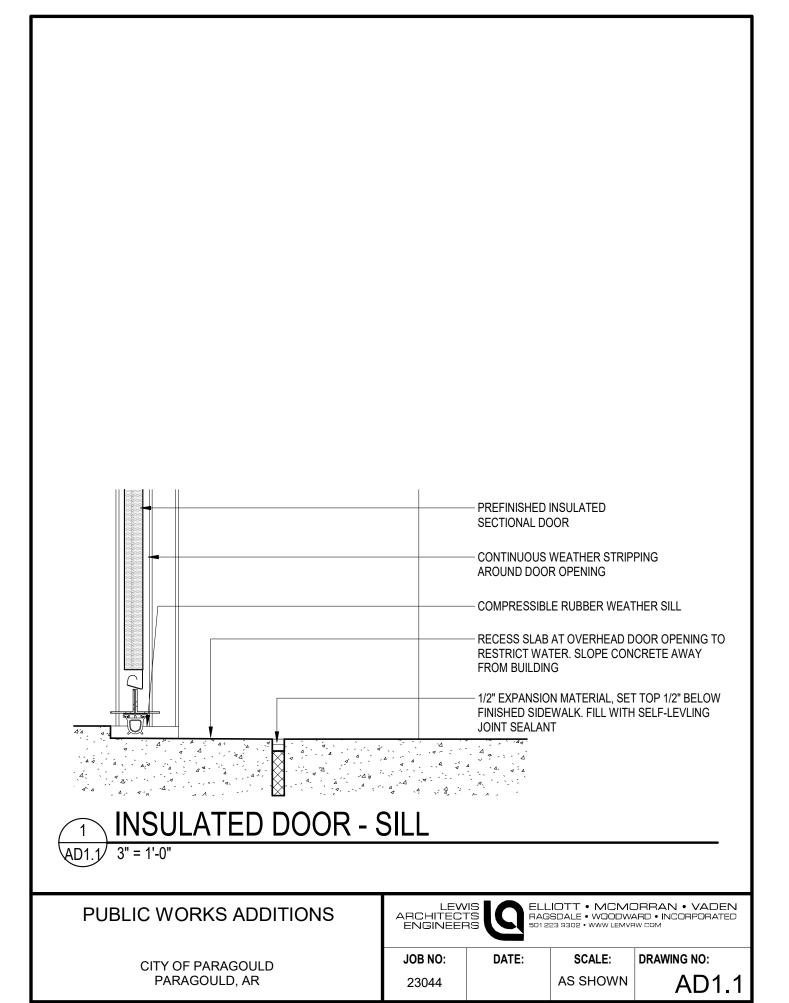
<u>HW-9 – each door (Interior Wood door) to have:</u>

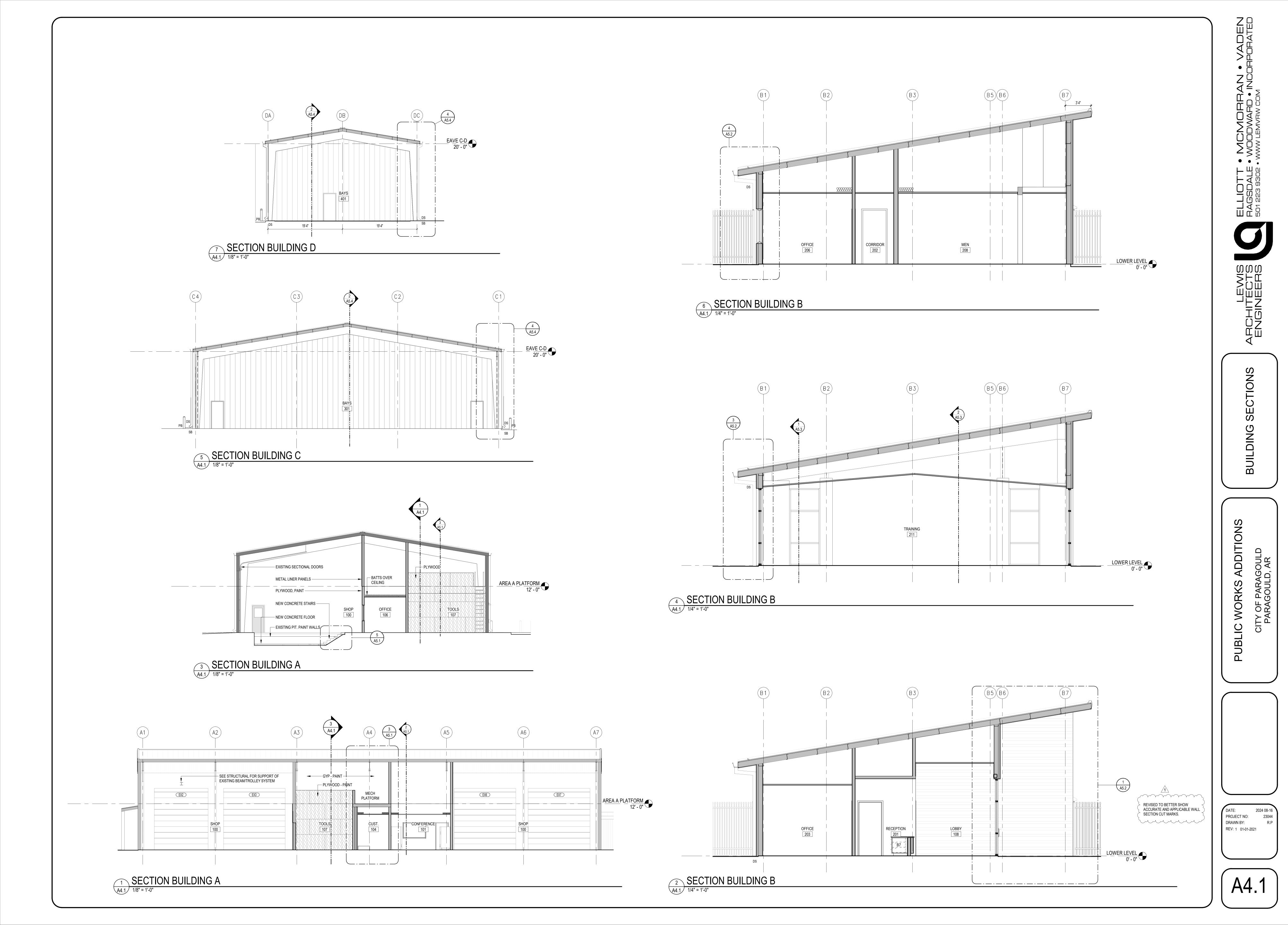
Mc	3	Hinges	TA2714 4.5 x 4.5 US26D
R	1	Push Plate	70C US32D
R	1	Pull Plate	70C x 107 US32D
R	1	Kick Plate	K1050 10 x DW-2" US32D
S	1	Closer	EN1431-UO x TB
R	1	Wall Stop	409 US32D
R	3	Silencers	608

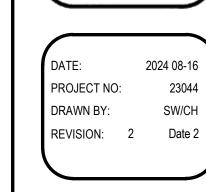
<u>PART THREE – EXECUTION</u>

Not Used.

END OF SECTION







CONTRACTOR MUST HAVE ONE CALL LOCATE AND MARK ALL EXISTING UTILITIES PRIOR TO TRENCHING OR BORING. ELECTRIC CONTRACTOR MUST LOCATE AND MARK ALL EXISTING CONDUITS AND PIPES OWNED BY PROPERTY OWNER PRIOR TO TRENCHING OR BORING.

PROJECT NO:

DRAWN BY:

HWAT-R2 HEAT TRACE CABLE BY

PLUMBING CONTRACTOR.

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REVISION: 1 2024 09-05



- 1. DUE TO THE SMALL SCALE OF THE PLANS AND THE DIAGRAMMATIC NATURE OF ELECTRICAL PLANS IN GENERAL IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, JUNCTION BOXES, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING HIS WORK AND SHALL COORDINATE AND ARRANGE HIS WORK
- 2. PROVIDE LAMINATED NAMEPLATES ON ALL ELECTRICAL GEAR PER THE SPECIFICATIONS. SCREW OR POP RIVET TO COVERS. ALL SAFETY SWITCHES SHALL BE HEAVY DUTY, NON-FUSED, 240V OR 600V, SOLID NEUTRAL, NEMA 1 OR NEMA 3R AS APPLIES UNLESS NOTED OTHERWISE.
- 3. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE. SLEEVE ALL RACEWAYS ROUTED THRU FOOTINGS OR GRADE BEAMS. CONTRACTOR SHALL FIRESTOP PER SPECIFICATIONS ALL CONDUIT PENETRATIONS THRU RATED WALLS. VERIFY FIRE RATED WALL LOCATIONS WITH ARCHITECTURAL PLANS. CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR AND AVOID ANY WATER CARRYING PIPE INSTALLATION ABOVE ELECTRICAL GEAR AND/OR APPARATUS. SET SCREW AND INDENTER TYPE CONDUIT FITTINGS ARE NOT ALLOWED. ALL INTERIOR EXPOSED RACEWAY SHALL BE PAINTED AS DIRECTED BY ARCHITECT
- 4. ALL CONDUIT, JUNCTION AND OUTLET BOXES, AND RELATED ROUGH-IN MATERIAL ARE TO BE CONCEALED UNDER FLOORS, IN WALLS AND ABOVE FINISHED CEILINGS WHERE POSSIBLE UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS OR ON THE DRAWINGS. ALL CONDUITS SHALL BE ROUTED OVERHEAD UNLESS NOTED OTHERWISE OR SHOWN AS BELOW GRADE TO A DEVICE.
- 5. ALL CONDUCTORS SHALL BE COPPER WITH A MINIMUM SIZE CONDUCTOR OF #12 A.W.G. PROVIDE SOLID TYPE 'THW' OR 'THHN' FOR #12 A.W.G. AND #10 A.W.G. ALL FEEDER AND MOTOR/EQUIPMENT CONDUCTORS SHALL BE COPPER TYPE 'THHN' OR 'THWN'.
- 6. ALL EQUIPMENT SHALL BE BRACED FOR EARTHQUAKE. LIGHT FIXTURES TO HAVE EARTHQUAKE CLIPS AND INDEPENDENT SUPPORT WIRES AT OPPOSITE CORNERS. ALL CEILING MOUNTED EQUIPMENT SUCH AS LIGHT FIXTURES SHALL BE SECURED TO THE STRUCTURE WITH #12 GA STEEL WIRE ON TWO (2) SIDES. IN ADDITION, LIGHT FIXTURES SHALL BE SECURED TO THE CEILING WITH FACTORY UL LISTED EARTHQUAKE CLIPS.
- 7. AT LOCATIONS WHERE TRENCHES ARE BELOW BOTTOM OF FOOTING ELEVATION AND WITHIN SIX FEET OF THE EDGE OF THE FOOTING, TRENCHES SHALL BE BACKFILLED IN LIFTS, COMPACTED AND TESTED. REFER TO STRUCTURAL DRAWINGS FOR FOUNDATION NOTES FOR BACKFILL PROCEDURES. PROVIDE PULLSTRINGS FOR ALL CONDUIT STUBS/SLEEVES.
- 8. PROVIDE A MIN. OF (2) 4"C ON BOTH SIDES OF CORRIDOR PARTITIONS. PROVIDE (2) 3M# PT4RD FIRE-RATED SEALS AT FIRE-RATED PARTITIONS. PROVIDE SPEC-SEAL FIRESTOP PILLOWS IN ALL OTHER SLEEVES AND PENETRATIONS AT FIRE-RATED WALLS.
- 9. ALL CIRCUITS, LIGHTING AND POWER, SHALL HAVE DEDICATED NEUTRAL CONDUCTORS WITH ONE PER EACH HOT CONDUCTOR-(NO SHARING OF NEUTRALS). ONLY 3 "HOT" CIRCUITS ALLOWED PER HOMERUN - U.N.O.
- 10. ALL OF THE FOLLOWING RECEPTACLES SHALL BE GFCI TYPE: RECEPTACLES FOR ELECTRIC WATER COOLERS RECEPTACLES IN BATHROOMS OR WITHIN 6'-0 OF A SINK
- NEMA 5-20R RECEPTACLES FOR A KITCHEN OR CONCESSION AREA. EXTERIOR RECEPTACLES SHALL BE GFCI AND WEATHER RESISTANT "WR" TYPE. Note: FEED THROUGH PROTECTION OF GFCI OUTLETS ARE NOT ALLOWED.
- 11. PROVIDE EXTRA HEAVY DUTY HOSPITAL GRADE TYPE RECEPTACLES FOR ALL PATIENT TREATMENT AREAS SUCH AS, BUT NOT LIMITED TO: EXAM, TREATMENT, TRIAGE, SLEEPING, X-RAY AND DIAGNOSTIC OR IMAGING ROOMS.
- 12. MOUNT EXTERIOR DISCONNECTS FOR HVAC/MECHANICAL EQUIPMENT AT +48"A.F.G. TO TOP OF DISCONNECT OR, WHERE APPLICABLE, TOP OF DISCONNECT AT TOP OF ADJACENT SURROUNDING SCREEN WALL; WHICHEVER IS LOWER. COORDINATE LOCATIONS OF ALL DISCONNECTS WITH FINAL EQUIPMENT LOCATIONS PRIOR TO BEGINNING WORK AS NOT TO IMPEDE ANY EQUIPMENT ACCESS OR VIOLATE ANY NEC CLEARANCES REQUIREMENTS.
- 13. THE FINAL TYPEWRITTEN ELECTRICAL PANEL SCHEDULES SHALL REFLECT THE ACTUAL ROOM DESCRIPTIONS AND NUMBERS DEPICTED ON FINAL INSTALLED ROOM SIGNAGE. (FIELD VERIFY FOR
- 14. LOW-VOLTAGE, AUDIO/VISUAL AND INTERACTIVE DISPLAY BOARD CONDUITS ARE SIZED IN ACCORDANCE WITH VENDORS INSTALLING/UTILIZING "RAPIDRUN" OR "EZ-PULL" TYPE CABLES TO EQUIPMENT. CONTRACTORS PROVIDING AUDIO/VISUAL CABLING UNDER THIS PROJECT/CONTRACT SHALL UTILIZE THESE TYPES OF CABLES.
- 15. LIGHT FIXTURES SUBMITTED/PROVIDED SHALL MEET THE REQUIREMENTS OF THE DESIGNLIGHTS CONSORTIUM AND/OR BE ENERGYSTAR CERTIFIED.
- 16. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND SUBMITTING ALL POWER PACKS, RELAYS, SENSORS, CABLING, ETC AS REQUIRED TO PROVIDE COMPLETE AND OPERATIONAL OCCUPANCY CONTROLS IN COMPLIANCE WITH THE LATEST ENERGY CODES.
- 17. ALL CONDUITS ENTERING THE BUILDING FROM BELOW GRADE SHALL BE SEALED OFF FROM WATER INFILTRATION WITH CONDUIT SEALANT SYSTEM EQUAL TO POLY-WATER FST SYSTEM. ALL EMPTY STUBBED UP CONDUITS SHALL ALSO BE PROVIDE WITH THREADED CAP FOR COVER.
- 18. PROVIDE HANDLE-LOCK-OFF TYPE BREAKERS FOR ALL CIRCUITS FEEDING ELECTRIC RESISTIVE HEATERS (EH-#, CH-#, EDH-# FOR EXAMPLE).
- 19. PROVIDE TAMPER-RESTISTANT TYPE RECEPTACLES IN ALL LOCATIONS AS REQUIRED BY NEC 406.12

ELECTRICAL SEISMIC NOTES

2. THE CONTRACTOR SHALL BE FAMILIAR WITH SECTION 1621 OF THE LATEST

THE SYSTEMS AND THE COMPONENTS ARE INSTALLED TO COMPLY.

3. BECAUSE THE COMPONENTS OF THESE FACILITIES HAVE A COMPONENT

3.1 COMPONENTS WHICH HAVE FLEXIBLE CONNECTIONS BETWEEN THE

LESS ABOVE FLOOR LEVEL, AND WEIGH 400 POUNDS OR LESS. COMPONENTS WEIGHING 20 POUNDS OR LESS DO NOT HAVE A HEIGHT

3.2 CONDUIT SUPPORTED BY ROD HANGERS WHICH ARE 12" OR LESS IN

3.3 COMPONENTS SUPPORTED BY CHAINS OR SIMILARLY SUSPENDED FROM

ABOVE ARE NOT REQUIRED TO MEET THE LATERAL SEISMIC FORCE

REQUIREMENTS AND SEISMIC RELATIVE DISPLACEMENT. REQUIREMENTS

PROVIDED THAT THEY CANNOT BE DAMAGED OR CANNOT DAMAGE ANY OTHER COMPONENT WHEN SUBJECTED TO SEISMIC MOTION AND THEY

HAVE DUCTILE OR ARTICULATING CONNECTIONS TO THE STRUCTURE AT

4. ALL CEILING MOUNTED EQUIPMENT SUCH AS LIGHT FIXTURES SHALL BE SECURED TO THE STRUCTURE WITH #12 GA STEEL WIRE ON TWO (2) SIDES. IN ADDITION, LIGHT FIXTURES SHALL BE SECURED TO THE CEILING WITH FACTORY UL LISTED

NOTE: "C-CLAMP" CONNECTORS ARE NOT ACCEPTABLE EVEN WITH EXCEPTIONS.

THE POINT OF ATTACHMENT. THE GRAVITY DESIGN LOAD FOR THESE ITEMS

CONSTRUCTION WHICH WILL NOT BE SUBJECT TO BENDING.

SHALL BE THREE TIMES THEIR OPERATING LOAD.

EXCEMPT FROM THE REQUIREMENTS OF SECTION 1621:

RESTRICTION.

INTERNATIONAL BUILDING CODE (IBC) AND ARKANSAS AMENDMENT SUCH THAT

IMPORTANCE FACTOR (Ip) = 1.0, THE FOLLOWING ELECTRICAL COMPONENTS ARE

ASSOCIATED EQUIPMENT, PIPING AND CONDUIT, ARE MOUNTED 4 FEET OR

LENGTH FROM TOP OF PIPES TO STRUCTURE. THE HANGERS MUST BE RIGID

MINIMUM WIRING NOTES

THE PROPOSED SCHOOL PROJECT IS CLASSIFIED AS SEISMIC DESIGN CATEGORY AND SEISMIC USE GROUP 2 WITH COMPONENT IMPORTANCE FACTOR (Ip) = 1.0.

55A-70A

70A-85A

85A-100A

BELOW FOR ALL EQUIPMENT CONNECTIONS: MOCP/BREAKER 25A-30A 35A-40A # 8AWG 45A-55A #6AWG

4AWG

#2AWG

SYMBOL DESCRIPTION

LIGHT FIXTURE - REFER TO SCHEDULE, TYPICAL

CEILING MOUNTED LIGHT FIXTURE - REFER TO SCHEDULE

WALL MOUNTED LIGHT FIXTURE - REFER TO SCHEDULE

EMERGENCY BATTERY LIGHT (TYPE DENOTED)

→ POLE/WALL MOUNTED LIGHT (TYPE DENOTED)

LIGHTING CHANNEL WIRE (TYPE DENOTED)

TYPE (AIM DOWN CORRIDOR)

(LS) LIGHT LEVEL SENSOR - TYPE DENOTED

SWITCH - SINGLE POLE, 4'-0" A.F.F.

SWITCH - THREE WAY, 4'-0" A.F.F.

SWITCH - FOUR WAY, 4'-0" A.F.F.

a,b,c INDICATES ZONE

INDICATES KEYED SWITCH

←→ SW. W/PILOT

CONTROLLED, TYP.

PHOTOCELL "PEC"

EXIT LIGHT - CHEVRONS AS NOTED (BRACKET INDICATES WALL MOUNT)

CEILING FAN WITH T-BAR SUPPORT (REFER TO DETAIL/SCHEDULE)

OCCUPANCY SENSOR - CEILING MOUNT 360DEG INFRARED TYPE

OCC SENSOR - CEILING MOUNT 360DEG DUAL-TECHNOLOGY TYPE

OCCUPANCY SENSOR - DIRECTIONAL DUAL-TECHNOLOGY TYPE

OCC SENSOR - WALL MOUNT +8'-0"AFF UNO - SEE DETAIL

TWO-POLE TOGGLE DISC. SWITCH-MTD AS NOTED

DIMMER - 4'-0" A.F.F. - TYPE AS NOTED/REQUIRED BY MANU'

LOW VOLTAGE SWITCH - TYPE AS NOTED/SPECIFIED

LIGHTING RELAY / LOW VOLTAGE CONTROL PACK

OF FIXTURE BEING CONTROLLED - SUBMIT WITH LIGHTING PACKAGE.

MOUNT BACKBOX AS REQ'D AT 4'-0" A.F.F. TO TOPWITH 3/4"C MIN.

TO ABOVE ACCESSIBLE CEILING. [VM - INDICATES "MASTER"]

VARIABLE SPEED CONTROLLER FOR CEILING FAN - 4'-0" A.F.F.

REFER TO CEILING FAN SPECIFICATION FOR MODEL NUMBER.

HEIGHT: [+48"AFF, IN REGARDS TO ALL LIGHTING SWITCHES, IS TO THE TOP OF BOX]

\$0S OCC SENSOR - FLUSH WALL SWITCH @ +48"AFF TO TOP OF SWITCH

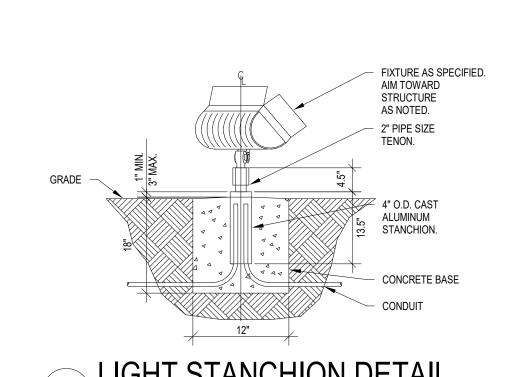
DIGITAL TIMER SWITCH - FLUSH MOUNT @ +48"AFF TO TOP OF SWITCH

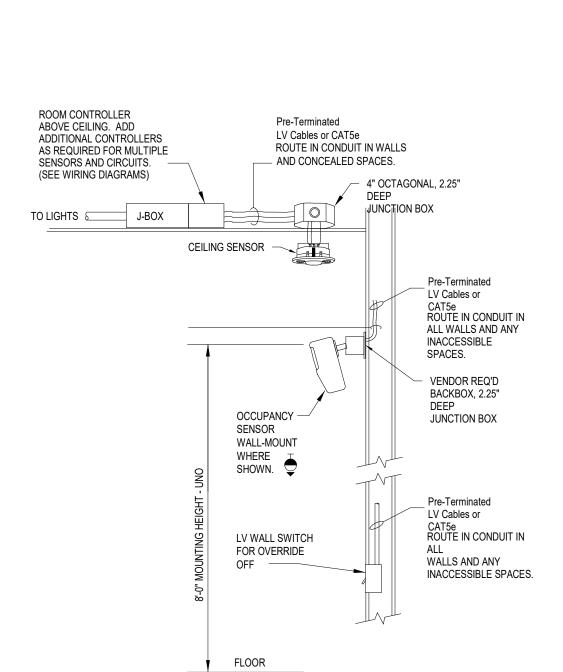
OCC SENSOR - CEILING MOUNT CORRIDOR ULTRASONIC

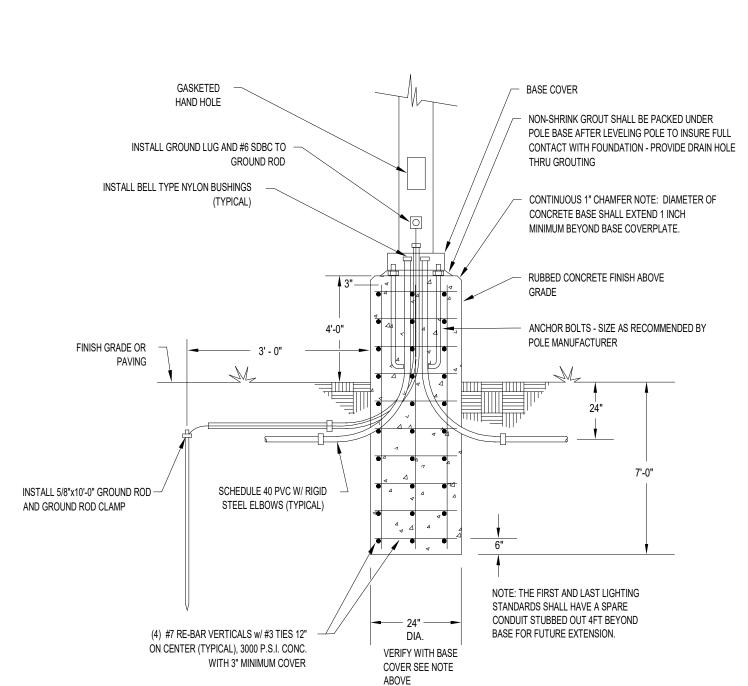
INDICATES EMERGENCY EGRESS FIXTURE ["EM"]

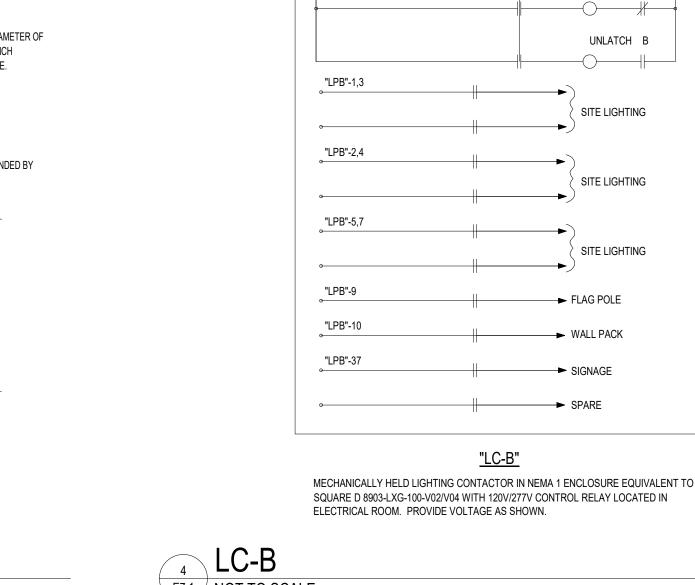
LIGHT STRIP/COVE FIXTURE - REFER TO SCHEDULE

WHETHER SHOWN OR NOT - THE CONTRACTOR SHALL PROVIDE THE MINIMUM WIRE NOTED









ELECTRICAL SYMBOL LEGEND

FIRE ALARM, STROBE ONLY, 80" A.F.F.

Hurles Fire Alarm, SPKR / STROBE COMBINATION, 80" A.F.F.

DH / HOTE GENERAL NOTES (SEPERISION SERVICE)

FIRE ALARM, STROBE ONLY, CEILING MOUNT FA NOTES: "cd"= CANDELA RATING

HEIGHT: [+48", IN REGARDS TO FIRE ALARM, IS TO THE TOP OF BOX]

VOICE/TELEPHONE JACK OUTLET @ 18" A.F.F.

DATA/COMPUTER JACK OUTLET @ 18" A.F.F.

WIRELESS ACCESS POINT - CEILING

COMPUTER/TELE. COMBO OUTLET @ 18" A.F.F.

(MULTI-GANG WALKER RFB6-OG - U.N.O.)

CABLE TRAY - TYPE AND MOUNTING AS DETAILED

HEIGHT:[IN REGARDS TO TELECOM, MATCH RECEPTACLE

HEIGHTS: +18"AFF / "AC" IS +6" COUNTERTOP]

MODEL

LITHONIA CPX-2X2-4000LM-80CRI-40K-SWL-MIN10-MVOLT

LITHONIA CPX-1X4-4000LM-80CRI-40K-SWL-MIN10-MVOLT

LITHONIA | CPX-2X4-4000LM-80CRI-40K-SWL-MIN10-MVOLT

LITHONIA | CPX-2X4-6000LM-80CRI-40K-SWL-MIN10-MVOLT

LITHONIA ZL1N-L48-3000LM-FST-MVOLT-40K-80CRI-WH

LITHONIA TMSL 8000LM L/LV MVOLT GZ10 40K 80CRI FINISH

LITHONIA | JEBL-12000LM-PFL-MVOLT-40K-80CRI-WGX-DWHXD

LITHONIA DSXF2 LED P2 40K WFR MVOLT-IS-FINISH-STANCHION

GOTHAM | EVO-40/20-6AR-WD-LSS-MVOLT-EZ1

LITHONIA AFF-FINISH-EXT

2. ALL EXIT SIGNS SHALL BE PROVIDED WITH THE PROPER FACES/CHEVRONS AS REQUIRED. ALL EXIT SIGNS AND "R"/"G" EGRESS ONLY TYPE FIXTURES ARE TO BE NON-SWITCHED.

CATV COAX OUTLET - MOUNT AT HEIGHT NOTED (F-CONNECTOR)

[+80", IN REGARDS TO FIRE ALARM, IS TO THE BOTTOM OF BOX]

LUSH MOUNTED FLOOR BOX, SEE PLANS FOR COOR'D WITH

POWER FLOOR BOX(ES) TELE/DATA OR COMBO AS INDICATED

COMBINATION RECEPTACLE AND LOW-VOLTAGE "AV" CABLING IN

MULTI-GANG BOX MOUNT AT HEIGHT NOTED/DETAILED ON RISER

LIGHT FIXTURE SCHEDULE

WATTAGE

TELECOM TERMINAL BOARD: 4FTx8FTx3/4" FIRE-RATED PLYWOOD - U.N.C

FA, CEILING SPKR / STROBE COMBINATION

S_{FA}/ FA, CEILING SPEAKER ONLY

FS / SOO WATER SUPERVISORY FLOW SWITCH

REMOTE TEST/STATUS STATION

 $\neg F \vdash \vdash$ FIRE ALARM STATION - PULL STATION, 4'-0" A.F.F.

GENERAL NOTES/SPECIFICATIONS.

TS / NATER SUPERVISORY TAMPER SWITCH

(11'-6" MAX. HGT.).

INTERIOR: FIRE ALARM HORN/SPKR - MTD. AT 80" A.F.F. TO BOTTOM - U.N.Q.

EXTERIOR: RE-ENTRANT HORN/SPKR - 24" BELOW ROOF LINE, U.N.O.

SD - SMOKE DETECTOR - AUTOMATIC, ADDRESSABLE, CEILING MOUNTED

HD - HEAT DETECTOR - AUTOMATIC, ADDRESSABLE, CEILING MOUNTED

①—— 'DSD' DENOTES DUCT SMOKE DETECTOR (SUP=SUPPLY/RET=RETURN)

SYMBOL DESCRIPTION

SYMBOL DESCRIPTION

SPECIAL PURPOSE OUTLET

FROM COUNTERTOP HEIGHT - U.N.O.]

RECEPTACLE, DUPLEX - 18" A.F.F. UNLESS NOTED OTHERWISE

RECEPTACLE, DUPLEX "SPLIT-WIRED" AT 18"A.F.F. - U.N.O.

RECEPTACLE, DUPLEX - CEILING FLUSH MOUNT. PROVIDE 6FT

WHIP FROM J-BOX ABOVE CEILING TO RECEPTACLE LOCATION.

CONDUIT COUPLING - CONNECT TO EQUIPMENT AS REQUIRED

RECEPTACLE (DOUBLE DUPLEX) - 18" A.F.F. - U.N.O.

WITH EQUIPMENT [TYPICALLY, +18" AFF - U.N.O.]

[MULTI-GANG WALKER RFB6-OG SERIES - U.N.O.]

PLANS FOR COOR'D WITH SYSTEMS FLOOR BOX(ES)

RECEPT ON DROP CORD (DUPLEX SHOWN)

RECEPT ON CORD REEL (DUPLEX SHOWN)

WITH BAKELITE LABEL AS DETAILED

ENCLOSED CIRCUIT BREAKER

SURFACE MOUNTED PANEL BOARD

FLUSH MOUNTED PANEL BOARD

PUSHBUTTON - TYPE AS INDICATED ON PLANS.

METER SOCKET - AS REQ'D BY UTILITY

GROUND ROD

ANTENNA

DESCRIPTION

A 2 x 2 RECESSED TROFFER

A1 1 x 4 RECESSED TROFFER

A2 2 x 4 RECESSED TROFFER

A3 2 x 4 RECESSED TROFFER

x EMERGENCY EXIT LIGHT

z FLOOD LIGHT

COMMENTS:

Y HIGH BAY ROUND FIXTURE

LINEAR UTILITY STRIP FIXTURE

C 6" RECESSED ARCHITECTURAL DOWNLIGHT

3 WALL MOUNT EXTERIOR EGRESS FIXTURE

SR EXTERIOR TYPE 4 AREA LIGHT - 2 HEAD @ 90

R WALL MOUNT TWO-HEADED EMERGENCY EGRESS LIGHT

1. ALL HEIGHTS ARE IN REGARDS TO THE CENTERLINE OF FIXTURE - UNO.

D1 INDUSTRIAL HIGH LUMEN UTILITY STRIP

POWER POLE

GROUND ROD (PLAN VIEW)

LIGHTNING PROTECTION AIR TERMINAL

SWITCH, RUN PILOT LIGHT AND AUX. CONTACTS

240 VOLT RECEPT (TYPE AS NOTED)

INDICATES ABOVE COUNTER [TYPICALLY, +6" TO BOTTOM OF BOX

SPECIAL RECEPTACLE, NEMA STYLE AS NOTED - VERIFY SIZE

DUPLEX/QUAD RECPT IN FLUSH MOUNTED FLOORBOX, SEE

HEIGHT: [+18", IN REGARDS TO RECEPTACLES, IS TO THE CENTERLINE OF BOX]

MANUAL MOTOR STARTER, SQUARE 'D' TYPE FG w/ OVERLOAD

COMBINATION MOTOR STARTER AND DISCONNECT SWITCH W/HOA

FUSED DISCONNECT - w/GROUNDING LUG, SIZE/FUSE AS NOTED ON PLANS

DISCONNECT SWITCH - w/GROUNDING LUG, SIZE AS NOTED ON PLANS

ELECTRIC ELEMENT - SIZE AS NOTED (MAKE ALL FINAL CONNECTIONS)

MOTOR - SIZE AS NOTED ON PLANS (MAKE ALL FINAL CONNECTIONS)

EQUIPMENT - SIZE AS NOTED ON PLANS (MAKE ALL FINAL CONNECTIONS)

MANUFACTURER

3. CONTRACTOR SHALL PROVIDE/SUBMIT COMPATIBLE LOW-VOLTAGE DIMMER SWITCHES WITH THE FINAL SELECTED FIXTURE SUBMITTALS.

PROMOTE PROTECTIVE WIRE-NOTARDS FOR ALL FIXTURES LOCATED INSHOP WORKING AREA AND/OR IN SIMILAR ACTIVITY AREAS.

PROTECTION IN ALL PHASES. MOUNT AT 4'-0" A.F.F. TO TOP AND MARK | FR / HE INDICATES FA ADDRESSABLE RELAY

RECEPT ON EMERGENCY CKT (DUPLEX SHOWN)

ISOLATED GROUND RECEPT (DUPLEX SHOWN)

SYMBOL DESCRIPTION

EXTERIOR(11'-6" MAX. HGT.).

(S) / (S) INTERCOM/PAGING U.N.O.

VOLUME CONTROL

MIC / MH MICROPHONE OUTLET

K / ∷ H KEYPAD - INTRUS.

D H / MC MAGNETIC CONTACT(SECURITY)

PIR PIR SENSOR FOR DOOR RELEASE

PS SECURITY/DOOR POWER SUPPLY

PANIC PANIC HARDWARE DOOR RELEASE

CR CARD READER - ACCESS

READER CONTROLLER

MD / GB MOTION DETECTOR / GLASS BREAK

EL ELECTRIC LATCH

VOLTAGE

30.2 UNV

35.2 UNV

26.1 UNV

44.1 UNV

23.2 UNV

PHOTOCELL EQUAL TO TORK 2000/EPC1

ELECTRIC DOOR STRIKE /

CEILING CAMERA - CCTV

ELECT POWER TRANSFER HINGE

EXIT REQUEST BUTTON - ACCESS CONTROL

HEIGHT: [IN REGARDS TO SECURITY, +48"AFF IS TO TOP OF BOX - UNO]

25 UNV CHAIN MOUNT TO +10'-0" AFF WHERE NO CEILING

UNV WALL MOUNT AT +8'-0" AFF WHERE SHOWN AS SUCH

78 UNV PROVIDE 18" STANCHION MOUNT AS DETAILED ON PLANS

58 UNV CHAIN MOUNT TO +X'-X" AFF - UNO

UNV | WALL MOUNT AT +8'-0" AFF - UNO

UNV | WALL MOUNT AT +9'-0" AFF - UNO

93 UNV MOUNT TO BOTTOM OF STRUCTURE

PB DOOR RELEASE PB / TWO-WAY INTERCOM

EM ELECTROMAGNETIC LOCK - ACCESS CONTROL

BELL - MTD. AT 12" BELOW CEILING INTERIOR, 24" BELOW ROOFLINE

PROVIDE DOUBLE-FACE U.N.O. / ("S") INDICATES SINGLE-FACE

INTERCOM TWO-WAY TELEPHONE HANDSET. MOUNT 4'-0" A.F.F. TO

TOP OF BOX WHERE SHOWN AS WALL-MOUNT. ("ADMIN" INDICATES

[RN INDICATES SOUND REINFORCE, FA - FIRE, AV- AUDIO/VISUAL]

SPEAKER - CEILING MOUNTED 8" ROUND / 2x2 AS SPEC'D

SPEAKER - WALL MOUNTED 12" BELOW CEILING INTERIOR,

LOUDSPEAKER/HORN - MOUNT AT HEIGHT NOTED (11'-6" MAX UNO)

/ \$IC INTERCOM CALL-SWITCH, 4'-0" A.F.F. TO TOP OF BOX

(11'-6" MAX. HGT.) ARCHITECTURAL GRADE

HEIGHT: [+48", IN REGARDS TO INTERCOM, IS TO THE TOP OF BOX]

ADMINISTRATIVE TELEPHONE)

DIGITAL CLOCK-MTD. AT 12" BELOW CEILING INTERIOR, (11'-6" MAX. HGT.)

SYMBOL DESCRIPTION

MULTIOUTLET ASSEMBLY (TYPE DENOTED)

EQUIPMENT AS REQUIRED

ISOLATED GROUND, RESPECTIVELY.

WIRE IN CONDUIT-CEILING OR WALL

WEATHERHEAD - SIZE AS NOTED ON PLANS

EM - INDICATES EMERGENCY EGRESS FIXTURE

EWC - ELECTRIC WATER COOLER(GFI BREAKER)

1G/1G - SINGLE GANG BOX / SINGLE GANG RING

C - CONDUIT ("EMT" OR "RIGID" AS SPECIFIED)

SB - INDICATES INTERACTIVE DISPLAY BOARD

A.F.F. - INDICATES ABOVE FINISHED FLOOR

A.F.G. - INDICATES ABOVE FINISHED GRADE

B.F.G. - INDICATES BELOW FINISHED GRADE F.D.S. - FUSIBLE DISCONNECT SWITCH

T INDICATES TAMPER-RESISTANT TYPE

IG INDICATES ISOLATED GROUND TYPE

N.F.D.S. - NON-FUSIBLE DISCONNECT SWITCH

U INDICATES DUPLEX POWER WITH "USB" OUTLETS

----OHE-----OVERHEAD ELECTRICAL

---- UNDERGROUND ELECTRICAL

---- UGT---- UNDERGROUND TELEPHONE

---- UFO---- UNDERGROUND FIBER OPTIC

GFCI INDICATES GROUND FAULT CIRCUIT INTERRUPTER TYPE

(PROVIDE SEPARATE NEUTRALS/GROUNDS ON ALL "IG" CIRCUITS)

---EUGE---- EXISTING UNDERGROUND ELECTRICAL

-----UTV----- UNDERGROUND CABLE (TELEVISION)

---- UC ---- UNDERGROUND SYSTEMS CONDUIT

XXX INDICATES UTILITY TO BE REMOVED

(P-INDICATES PRIMARY;

S-INDICATES SECONDARY)

——EOHE— EXISTING OVERHEAD ELECTRICAL

AV - INDICATES AUDIO/VISUAL DEVICE

PVC - ELECT GRADE PVC CONDUIT (SCH. AS NOTED)

WM - SURFACE MOUNTED RACEWAY (WIREMOLD)

★ - DASHED INDICATES EXISTING OR BELOW GRADE AS NOTED

U.N.O. - UNLESS NOTED OTHERWISE

---- WIRE IN CONDUIT - UNDERFLOOR. (SEE REQ'S IN SPECS)

SOLENOID VALVE

HOMERUN TO PANEL

WP - WEATHERPROOF (3R)

LC - LIGHTING CONTACTOR

ER - EXISTING RELOCATED

AC - ABOVE COUNTER

CLG INDICATES CEILING

(P) - (S)

NOTES

Y 16 Y 4NV Y ALLYHOUN NATA 12 YHAFF - YHAY

HP - HORSEPOWER

WG - WIRE PROTECTIVE GUARD

NS - NON-SWITCHED

TC - TIME CLOCK

FA - FIRE ALARM

CONDUIT STUB/SLEEVE

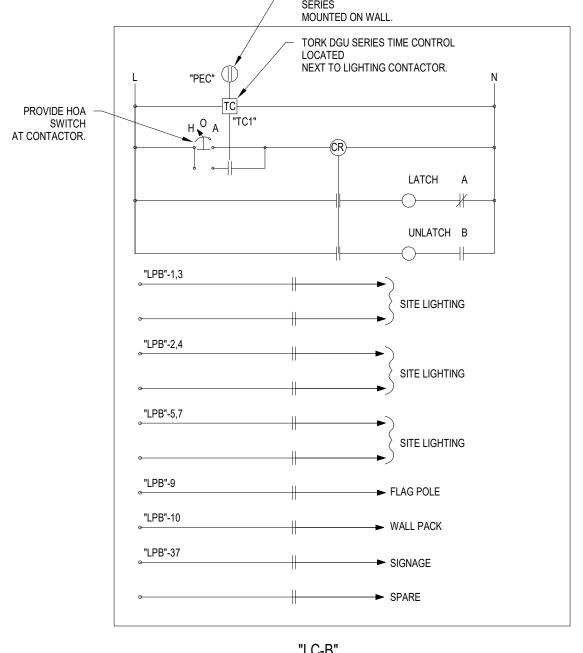
THERMOSTAT/TEMP SENSOR - PROVIDE BOX AS REO'D BY MECHANICAL

AT 4'-0" A.F.F. TO TOP WITH 3/4"C MIN. TO ABOVE ACCESSIBLE CEILING.
[SEE MECH PLANS FOR LOCATIONS]

JUNCTION BOX - FINAL CONNECTION TO EQUIPMENT AS REQUIRED

EQUIPMENT J-BOX - TYPE AS SHOWN/NOTED - CONNECT TO

WIRE DESIGNATIONS - HOT, SWITCH, NEUTRAL, GROUND,



DIRECTLY NEXT TO CONTROLLER. PROVIDE (2#10,#10G,3/4"C) TO A 30A/2P BREAKER IN PANEL NOTED ON PLANS. PIPE TEMPERATURE SENSOR -WORK BY PLUMBING CONTRACTOR HWAT-ECO-GF CONTROLLER -BY PLUMBING CONTRACTOR (INTEGRAL GFI PROTECTION) ALL HWAT-R2 HEAT TRACE -CABLE SPLICING/TEE WORK BY PLUMBING CONTRACTOR. PROVIDE 1/2"C TO JUNCTION BOX WITH -(2#10, #10G) WIRE PROVIDE JUNCTION BOX WITHIN 3FEET -OF PC CONNECTOR TO MAKEUP FINAL RayClic-PC CONNECTOR CONNECTION TO PRE-WIRED 5FT WHIP FIELD VERIFY EXACT LOCATION WITH PROVIDED WITH PC CONNECTOR. PLUMBING CONTRACTOR PRIOR TO PROVIDE 1/2" SEAL-TITE FLEXIBLE BEGINNING WORK - MAY BE REMOTELY CONDUIT TO PC CONNECTOR AND MOUNTED ABOVE CEILING.

MAKE ALL FINAL CONNECTIONS. HEAT TRACE CONNECTION

ELECTRICAL CONTRACTOR TO -

PROVIDE 240V/30A/2P/NFDS SWITCH

