

SECTION 28 00 99 - REQUIREMENTS FOR CONTRACT COMPLETION

PART 1 GENERAL

1.01 DESCRIPTION

- A. The following material must be submitted prior to Contract Completion:
 - 1. Spare parts
 - 2. Record and Information Manuals
 - 3. Accessories and miscellaneous equipment
 - 4. Keys for equipment
- B. Contractor shall use only the attached forms for Material Receipt and System Completion.

1.02 SUBMITTALS

- A. To be included in Record and Information Manuals:
 - 1. Certificate of Material Receipt for all required spare parts
 - 2. Certificate of System Completion for each system when required by individual Division 26 Specifications

PART 2 PRODUCTS

2.01 SPARE PARTS

- A. Furnish spare parts and devices as required by Division 28 Specifications.

PART 3 EXECUTION

3.01 SPARE PARTS AND KEYS

- A. Deliver spare parts and keys to Owner's Representative. Obtain a signed copy of the Certificate of Material Receipt (ATTACHED TO THE END OF THIS SPECIFICATION SECTION).

3.02 MANUFACTURER'S INSPECTION

- A. Arrange for inspection and approval by Equipment Manufacturer where required by Division 26 Specifications. Provide Manufacturer Representative's signature on the Certificate of System Completion (ATTACHED TO THE END OF THIS SPECIFICATION SECTION).

3.03 OPERATIONAL TEST

- A. At completion, Contractor shall operate the systems for a period of at least seven (7) days, to demonstrate fulfillment of the requirements of the Contract. During this time, adjust equipment so that it will perform as the Manufacturer intended, and so that systems will function as designed. Contractor shall sign the Certificate of System Completion (ATTACHED TO THE END OF THIS SECTION).

3.04 EQUIPMENT DEMONSTRATION

- A. After all system operational tests have been completed, schedule an instruction period with the Owner. Instruct designated personnel in the operation and maintenance of all systems and equipment. Use manuals to familiarize Owner with equipment and procedures. Allow time as necessary for this instruction. Schedule a time convenient for the Owner and the Architect. All training sessions shall be videotaped for the Owners use in instructing future employees.

Instruction shall include:

1. Location of all components of the system and explanation of their function
2. Programming procedures for computer-based equipment
3. Maintenance and repair procedures
4. Review of documents in Record and Information Manuals

At the completion of instruction, have all attendees sign the Certificate of System Completion.

END OF SECTION

CERTIFICATE OF MATERIAL RECEIPT

PROJECT NAME: _____

DATE: _____

CONTRACTOR: _____

CONTRACTOR'S REPRESENTATIVE: _____

On the above listed date, the following pieces of equipment, as required by Division 26 Specifications, were delivered to the Owner's Representative:

Equipment	Quantity
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	

(Attach a separate page for additional items)

Owner's Representative: _____ (PRINT)

_____ (SIGN)

CERTIFICATE OF SYSTEM COMPLETION

PROJECT NAME: _____

CONTRACTOR: _____

SYSTEM: _____

SPECIFICATION SECTION NUMBER: _____

A. MANUFACTURER'S INSPECTION AND APPROVAL (If required by Specification Section)

The above listed system has been inspected and approved as meeting the Manufacturer's written instructions for installation and operation.

Manufacturer's Representative: _____ Date: _____

B. TESTING

The above listed system has passed all testing required by Division 26 Specifications and has met the terms of the Contract. Written test results are attached.

Contractor's Representative: _____ Date: _____

C. EQUIPMENT DEMONSTRATION

The above listed system has been demonstrated to the following Owner's Representatives:

	<u>NAME</u>	<u>TITLE</u>	<u>DATE</u>	<u>SIGNATURE</u>
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				

(ATTACH A SEPARATE PAGE FOR ADDITIONAL NAMES)

SECTION 28 00 20 - RECORD AND INFORMATION MANUALS

PART 1 GENERAL

1.01 RECORD DRAWINGS

- A. Refer to Division 1 for general requirements as well as for specific information regarding Record (As-Built) Drawings. All drawings shall be provided in electronic PDF format.

1.02 OPERATION AND MAINTENANCE MANUALS

- A. Refer to Division 1 for general requirements and for specific information regarding Operation and Maintenance Manuals, including required format(s) (paper and/or electronic) and quantity. If no such requirements are listed in Division 1, provide in electronic format. Submit one (1) copy of draft manual to the Architect for review and approval thirty (30) days before final inspection is due. After approval, submit three (3) approved manuals to the Owner and obtain receipt. (See Section 26 00 99, "Requirements for Contract Completion.")
- B. Paper Copy Manuals shall be loose leaf, three-ring, heavy-duty hard-cover binders. Material shall be typewritten or printed and be fully legible. Each section shall be divided by labeled tabs.
- C. Electronic Copy Manuals shall be PDF file format. Individual documents shall have filenames corresponding to specification sections and system names. Each document shall have bookmarks corresponding to the systems, subsystems, and equipment names. Use electronic files prepared by manufacturers where available.
- D. The following items, together with any other necessary pertinent data, shall be included in each Manual:
 - 1. Each manual shall be labeled on front cover with project name, Contract, Contractor's name, Architect, Engineer, and date of project completion.
 - 2. Manufacturers' names, nearest Factory Representative, and model and serial numbers of components of systems
 - 3. Operating instructions, start-up and shutdown procedures
 - 4. Maintenance instructions
 - 5. Routine and 24 hour emergency service/repair information:
 - a. Name, address, and telephone number of servicing agency
 - b. Names of personnel to be contacted for service arrangements
 - 6. Parts list with numbers of replaceable items, including sources of supply
 - 7. Manufacturers' literature describing each piece of equipment
 - 8. One (1) approved copy of each submittal
 - 9. Written warranties
 - 10. Certificate of Material Receipt and Certificate of System Completion
 - 11. Record (As-Built) Drawings
 - 12. IP and MAC address identified for each item required to have an address
 - 13. Certificate of Final Inspection signed by Building Authority Having Jurisdiction
 - 14. Test results
 - 15. Video recordings of all equipment demonstrations and training sessions

END OF SECTION

SECTION 28 00 15 - SUBMITTALS

PART 1 GENERAL

1.01 DESCRIPTION

- A. Refer to the GENERAL CONDITIONS and Division 1 for general requirements.
- B. Materials and equipment installed in this work shall meet all the requirements of the Contract Documents and no materials or equipment shall be ordered until submittals are reviewed and approved by the Architect and Engineer.
- C. Submit complete catalog data or shop drawings for each manufactured item of equipment and all components to be used in the work, including specific performance data, material description, rating, capacity, working pressure, dimensional data, material gauge or thickness, wiring diagrams, brand name, catalog number, and general type.
- D. Catalog data for equipment reviewed by the Engineer shall not take precedence over the requirements of the Contract Documents. The review of the Engineer shall not relieve the Contractor from the responsibility for deviations from Drawings or Specifications, nor from the responsibility for providing proper clearance and coordination with other Trades.
- E. When submitted for review, all shop drawings shall bear the Contractor's signed certification that he/she has reviewed, checked, and approved the shop drawings, that they have been coordinated with the requirements of the project and with the provisions of the Contract Documents, and that he/she has verified all field measurements and construction criteria, materials, catalog numbers, and similar data. Annotations shall be in red ink.
- F. Each required Specification Section submittal shall be complete with all required information included in one PDF file. External web links are not permitted. Include a transmittal cover page indicating Specification Section name and number.
- G. Submittals shall be sent to shopdrawings@korda.com.

1.02 CONTRACTOR'S RESPONSIBILITIES

- A. Complete review of shop drawings, product data, and samples prior to submission.
- B. Determine and verify:
 - 1. Field Measurements
 - 2. Field Construction Criteria
 - 3. Catalog Numbers and Similar Data
 - 4. Conformance with Specifications
- C. Coordinate each submittal with requirements of the work and the Contract Documents.
- D. Include a letter in the front of the submittal of any deviations in the submittals from the requirements of the Contract Documents.

- E. Make submittals and resubmittals, if necessary, promptly in accordance with the approved schedule and in such sequence as to cause no delay in the work or in the work of any other Contractor, or the project as a whole.
- F. Make any corrections or changes in rejected submittals as required by the Architect and resubmit until approved.
- G. Begin no fabrication or work which requires submittals until approved submittals are returned.

1.03 INCORPORATION OF SUBMITTALS INTO RECORD AND INFORMATION MANUALS

- A. Refer to Section 28 00 20, "Record and Information Manuals."

1.04 CERTIFICATIONS

- A. Provide:
 - 1. Test Agency results verifying capacities, operating conditions and power requirements at design conditions
 - 2. Manufacturer's Statement of Compliance with Standards discussed in individual Specification Sections
 - 3. Equipment labels indicating Certification requirements
 - 4. Quality standard designations on each unit piece
 - 5. Typed verification that noted mixes, chemical compositions, and testing procedures were complied with
 - 6. Other Certifications listed in other Sections of the Specifications

1.05 REQUIRED SUBMITTAL INFORMATION

- A. Submittal Transmittal
 - 1. Provide the following information on the Transmittal Form for each submittal:
 - a. Project name and address.
 - b. Specification number, as listed for each submittal item required in Paragraph 1.05C below.
 - c. Item description, as listed for each submittal item required in Paragraph 1.05C below. Where equipment is identified by number or tag on the documents, same shall be indicated on the submittal.
 - d. Specification number and item description (b and c, above) for each submittal if more than one submittal is sent under one transmittal form.
 - e. Name, address and telephone number of Contractor.
 - f. Bid package number (if applicable).
 - 2. Submittal Transmittal Forms not properly identified with the above information will be returned (without review) to the Contractor.

- B. Refer to the following letter key:

KEY FOR REQUIRED SUBMITTALS:

- A. Shop Drawings and/or Layout Drawings
- B. Product Data Sheets
- C. Wiring Diagrams

- D. Installation, Operation, and Maintenance Instructions (Due at the end of project)
 - E. Reports or Test results (Due at the end of project)
- C. Submit information on equipment items as listed below.

SECTION #	CONTRACT ITEM	SUBMITTALS REQUIRED
28 00 20	RECORD AND INFORMATION MANUALS	A, B, C, D
28 13 00	SECURITY AND ACCESS CONTROL SYSTEM	A, B, C, D
28 23 00	VIDEO SURVEILLANCE SYSTEM	A, B, C, D
28 15 00	INTRUSION DETECTION	A, B, C, D

- D. After approval, one (1) copy shall be returned to the Contractor. Contractor shall make prints of the approved transparencies and reproductions of all other shop drawing information as necessary for his/her use and for inclusion in the Record and Information Manuals.

END OF SECTION

SECTION 28 00 00 - DIVISION 28 - ELECTRONIC SAFETY AND SECURITY
INTRODUCTORY STATEMENT

PART 1 GENERAL

1.01 REQUIREMENTS

- A. All work included under this heading is subject to the Bidding Requirements, the Instructions to Bidders, the General Conditions, and/or the Division 1 General Requirements written for this entire Specification and shall apply to all work herein.
- B. In addition to conforming to the documents listed in Paragraph 1.01 A. above, the work performed by the Division 28 Contractor shall conform to all provisions of Sections 28 00 00 through 28 99 99 as included and made part of this Specification. The Division 28 Contractor is to consider the word "Contractor" when used in these Sections to mean himself/herself.
- C. The Division 28 Contractor must read the Specifications of all divisions, because they will be responsible for any and all work described in other Sections where reference is made to Division 28 and/or Electronic Safety and Security Contractor.

1.02 APPLICABLE SECTIONS

- A. Division 28 Contractor shall perform work described in the preceding paragraphs, and as it relates to Division 28 work in the following Sections (as included):

26 05 27	Telecommunications Bonding Infrastructure
27 00 00	Communications Introductory Statement
26 06 10	Cable Tray for Communication Systems
26 07 12	Security System Raceways
27 10 00	Structured Cabling

- B. Where reference is made to the Division 27 Contractor in the above applicable Division 27 Specification Sections, it shall be construed to mean Division 28 Contractor.

1.03 RESPONSIBILITY

- A. The Engineer's efforts under this Contract are aimed at designing a project that will be safe during construction and after full completion of the project. The Engineer has no expertise in, and takes no responsibility for, construction means and methods or job site safety during construction, which are exclusively the Contractor's responsibility. Processing and/or approving submittals made by the Contractor which may contain information related to construction methods or safety issues, or participation in meetings where such issues might be discussed must not be construed as voluntary assumption by the Engineer of any responsibility for safety procedures.
- B. If a conflict occurs between the Drawings and/or the Specifications, immediately call the conflict to the attention of the Architect at least ten (10) days before bids are submitted, so an addendum clarification may be issued. Conflicts not brought to the Architect's attention

before bids are due, shall be priced by the Contractor to include the most expensive, highest quality and quantity of the conflicting items in question.

END OF SECTION

ABBREVIATIONS	
NOTE: NOT ALL ABBREVIATIONS MAY BE USED.	
A	AMPERE
AC	ALTERNATING CURRENT OR AIR CONDITIONER
AF	ARC-FAULT CURRENT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CAPACITY
ANNC	ANNUNCIATOR
AWG	AMERICAN WIRE GAUGE
AV	AUDIOVISUAL
BPS	BOLTED PRESSURE SWITCH
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CM	CONSTRUCTION MANAGER
CTR	COUNTER
DC	DIRECT CURRENT
DP	DISTRIBUTION PANELBOARD
DTT	DOUBLE TWIN TUBE
EB	ELECTRONIC BALLAST
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
EMT	ELECTRICAL METAL TUBING
EWG	ELECTRIC WATER COOLER
FA	FIRE ALARM
FLA	FULL LOAD AMPS
G	GROUND
GC	GENERAL TRADES CONTRACTOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER (GFCI)
GEN	GENERATOR
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPC	HIGH PRESSURE CONTACT SWITCH
HZ	HERTZ
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INCD	INCANDESCENT
KVA	KILOVOLT AMPERE

ABBREVIATIONS	
NOTE: NOT ALL ABBREVIATIONS MAY BE USED.	
KW	KILOWATT
LTG	LIGHTING OR LIGHT
LRA	LOCKED ROTOR AMPS
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MSB	MAIN SWITCHBOARD
MH	METAL HALIDE
MTS	MANUAL TRANSFER SWITCH
NAC	NOTIFICATION APPLIANCE CIRCUIT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NF	NON-FUSED
OCC	OCCUPANCY
PA	PUBLIC ADDRESS
PB	PULL BOX OR PUSH BUTTON
PVC	POLYVINYL CHLORIDE (PLASTIC PIPE)
PWR	POWER
RECP	RECEPTACLE
RX/REX	REQUEST TO EXIT
STP	SHIELDED, TWISTED PAIR
TC	TIME CLOCK
TR	TAMPER RESISTANT
TRT	TRIPLE TUBE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UTP	UNSHIELDED, TWISTED PAIR
V	VOLT
W	WATT
WAP	WIRELESS ACCESS POINT
WH	WATTHOUR
WP	WEATHERPROOF
XFMR	TRANSFORMER
Z	IMPEDANCE
PH	PHASE
LV	LOW VOLTAGE

LIGHTING SYMBOLS	
NOTE: NOT ALL SYMBOLS MAY BE USED.	
	JUNCTION BOX
	PANELBOARD
	GENERAL PURPOSE LUMINAIRE
	EMERGENCY LUMINAIRE
	WALL MOUNTED EXIT SIGN
	CEILING MOUNTED ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROWS
	CEILING MOUNTED EMERGENCY DUAL FACE ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROWS
	POLE MOUNTED LUMINAIRE (SINGLE)
	SWITCH: X-BLANK-SINGLE POLE 20A, TOGGLE; X=3-THREE WAY; X=4-FOUR WAY; X=P-PILOT LIGHT; X=K-KEY; X=OS-D-COMBINATION DIMMER OCC SENSOR; X=D-DIMMER;
	EMERGENCY LIGHT

POWER SYMBOLS	
NOTE: NOT ALL SYMBOLS MAY BE USED.	
	20A DUPLEX RECEPTACLE WITH COVER PLATE: X=MOUNTING HEIGHT (STANDARD = 18" TO CENTER); F=FLUSHED IN FLOOR, C= FLUSHED IN CEILING
	GFCI (GROUND FAULT CIRCUIT INTERRUPTER) TYPE RECEPTACLE
	WEATHER-RESISTANT, GFCI RECEPTACLE WITH "EXTRA DUTY" WEATHERPROOF IN-USE COVER
	RECEPTACLE MOUNT AT 4" ABOVE SURFACE OR BACKSPASH TO BOTTOM
	USB TYPE RECEPTACLE WITH TAMPER RESISTANT
	TAMPER RESISTANT RECEPTACLE
	SIMPLEX RECEPTACLE
	QUADRUPLEX RECEPTACLE: SEE DUPLEX RECEPTACLE FOR TYPES
	WALL MOUNTED SPECIAL RECEPTACLE: REFER TO PLANS FOR ADDITIONAL INFORMATION
	SURFACE MOUNTED RACEWAY
	STANDARD DISCONNECT SWITCH: X=CIRCUIT BREAKER SIZE, Y=NUMBER OF POLES, Z=SPECIAL DESIGNATION
	STANDARD FUSED DISCONNECT SWITCH: X=CIRCUIT BREAKER SIZE, Y=FUSING, Z=NUMBER OF POLES
	MOTOR STARTER: X=STARTER SIZE, Y=NUMBER OF POLES
	COMBINATION MOTOR STARTER/DISCONNECT SWITCH: X=STARTER SIZE, Y=FUSE SIZE, Z=NUMBER OF POLES
	MOTOR (BY OTHERS); PROVIDE POWER AS INDICATED
	UTILITY METER
	FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER: 2 = 2-POLE
	JUNCTION BOX
	SURGE PROTECTIVE DEVICE
	PANELBOARD
	RECESSED 2-GANG FLOOR BOX (POWER ONLY) (WIREMOLD RFB11-FPCTC SERIES OR APPROVED EQUAL) (1) DUPLEX RECEPTACLE (1) EMPTY GANG FOR FUTURE USE
	RECESSED 4-GANG FLOOR BOX (POWER AND DATA) (WIREMOLD RFB11-FPCTC SERIES OR APPROVED EQUAL) (2) DUPLEX RECEPTACLES (2) DATA OUTLETS
	RECESSED 6-GANG FLOOR BOX (POWER AND DATA) (WIREMOLD RFB11-FPCTC SERIES OR APPROVED EQUAL) (3) DUPLEX RECEPTACLES (6) DATA OUTLETS
	RECESSED FLOOR BOX (POWER AND DATA) (WIREMOLD RFB11-FPCTC SERIES OR APPROVED EQUAL) HARDWIRED FURNITURE CONNECTION COORDINATE COVER PLATE WITH ARCHITECT.

REVISION SCHEDULE		
#	DATE	REVISION DESCRIPTION

PROJECT NAME :

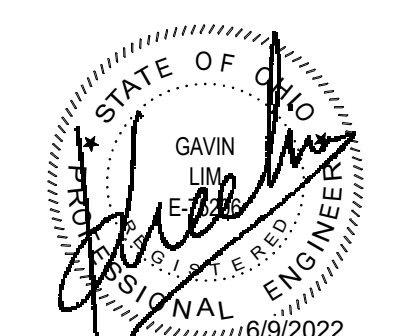
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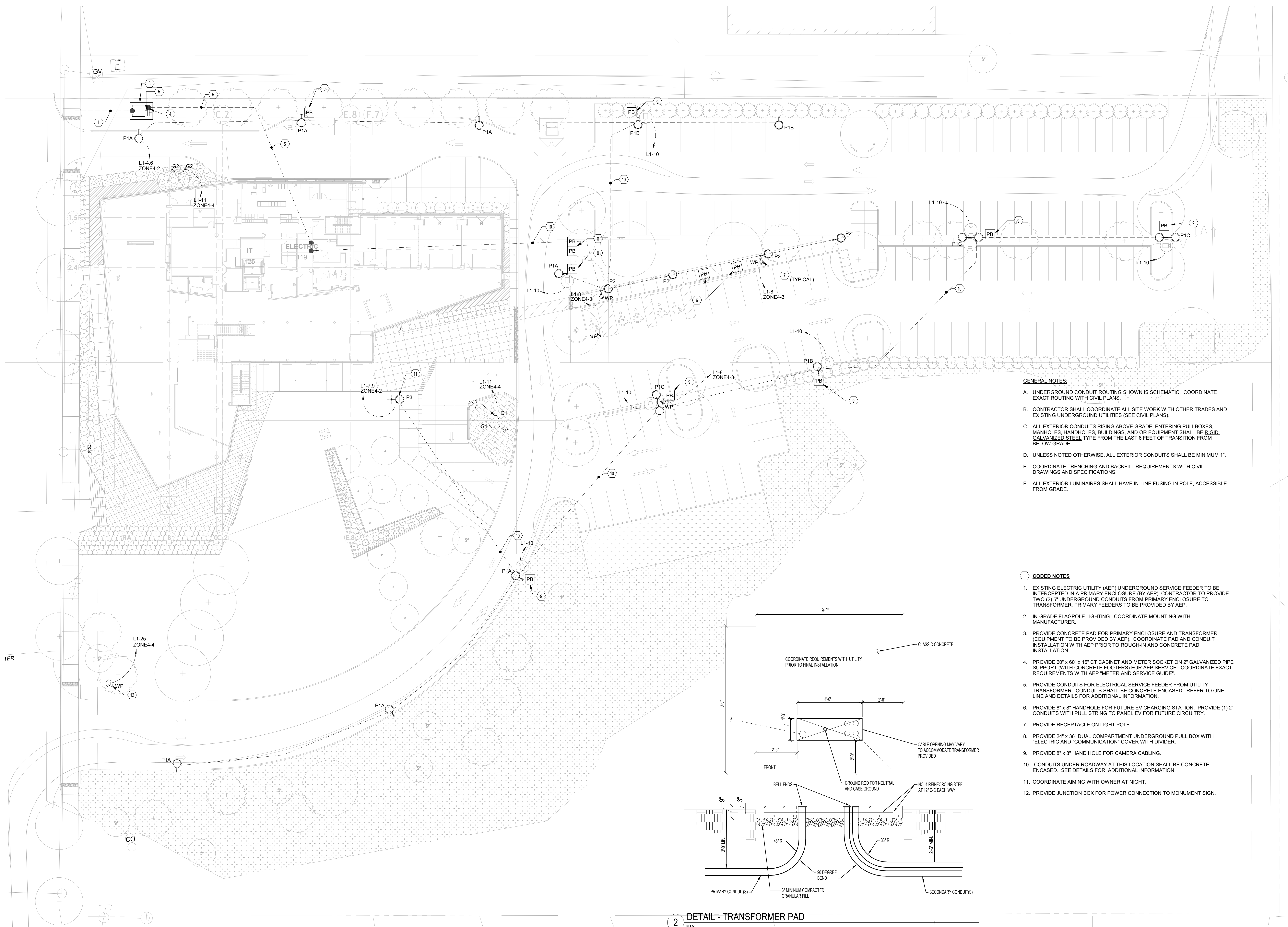
ISSUE DATE : 06/10/22

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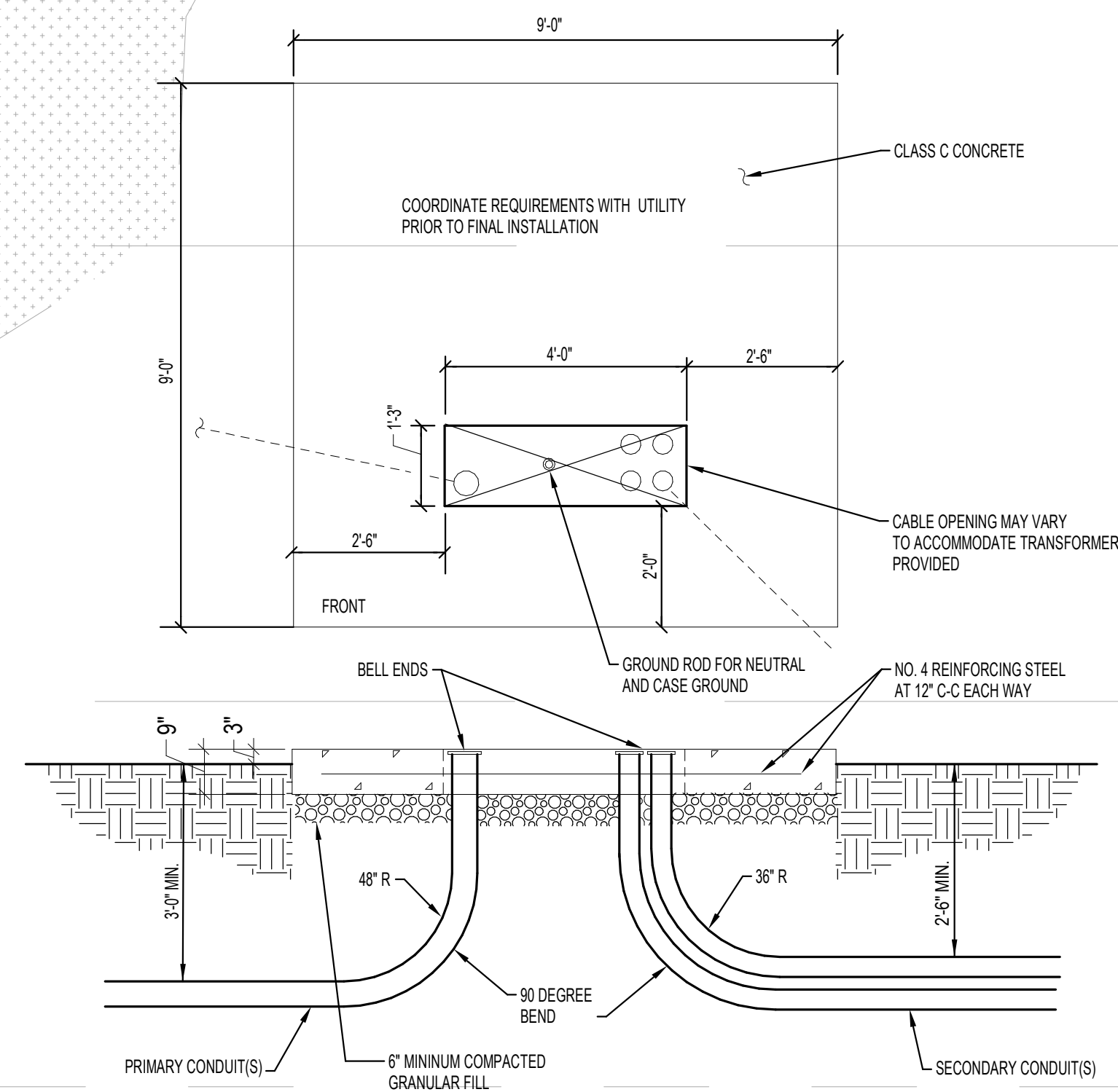
GENERAL INFORMATION - ELECTRICAL

E0.00



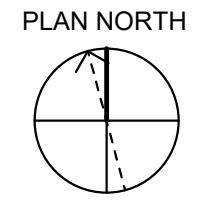
- GENERAL NOTES:**
- UNDERGROUND CONDUIT ROUTING SHOWN IS SCHEMATIC. COORDINATE EXACT ROUTING WITH CIVIL PLANS.
 - CONTRACTOR SHALL COORDINATE ALL SITE WORK WITH OTHER TRADES AND EXISTING UNDERGROUND UTILITIES (SEE CIVIL PLANS).
 - ALL EXTERIOR CONDUITS RISING ABOVE GRADE, ENTERING PULLBOXES, MANHOLES, HANDHOLES, BUILDINGS, AND/OR EQUIPMENT SHALL BE RIGID GALVANIZED STEEL TYPE FROM THE LAST 6 FEET OF TRANSITION FROM BELOW GRADE.
 - UNLESS NOTED OTHERWISE, ALL EXTERIOR CONDUITS SHALL BE MINIMUM 1".
 - COORDINATE TRENCHING AND BACKFILL REQUIREMENTS WITH CIVIL DRAWINGS AND SPECIFICATIONS.
 - ALL EXTERIOR LUMINAIRES SHALL HAVE IN-LINE FUSING IN POLE, ACCESSIBLE FROM GRADE.

- CODED NOTES**
- EXISTING ELECTRIC UTILITY (AEP) UNDERGROUND SERVICE FEEDER TO BE INTERCEPTED IN A PRIMARY ENCLOSURE (BY AEP). CONTRACTOR TO PROVIDE TWO (2) 5" UNDERGROUND CONDUITS FROM PRIMARY ENCLOSURE TO TRANSFORMER. PRIMARY FEEDERS TO BE PROVIDED BY AEP.
 - IN-GRADE FLAGPOLE LIGHTING. COORDINATE MOUNTING WITH MANUFACTURER.
 - PROVIDE CONCRETE PAD FOR PRIMARY ENCLOSURE AND TRANSFORMER (EQUIPMENT TO BE PROVIDED BY AEP). COORDINATE PAD AND CONDUIT INSTALLATION WITH AEP PRIOR TO ROUGH-IN AND CONCRETE PAD INSTALLATION.
 - PROVIDE 60" x 60" x 15" CT CABINET AND METER SOCKET ON 2" GALVANIZED PIPE SUPPORT (WITH CONCRETE FOOTERS) FOR AEP SERVICE. COORDINATE EXACT REQUIREMENTS WITH AEP "METER AND SERVICE GUIDE".
 - PROVIDE CONDUITS FOR ELECTRICAL SERVICE FEEDER FROM UTILITY TRANSFORMER. CONDUITS SHALL BE CONCRETE ENCASED. REFER TO ONE-LINE AND DETAILS FOR ADDITIONAL INFORMATION.
 - PROVIDE 8" x 8" HANDHOLE FOR FUTURE EV CHARGING STATION. PROVIDE (1) 2" CONDUITS WITH PULL STRING TO PANEL EV FOR FUTURE CIRCUITRY.
 - PROVIDE RECEPTACLE ON LIGHT POLE.
 - PROVIDE 24" x 36" DUAL COMPARTMENT UNDERGROUND PULL BOX WITH "ELECTRIC AND "COMMUNICATION" COVER WITH DIVIDER.
 - PROVIDE 8" x 8" HAND HOLE FOR CAMERA CABLING.
 - CONDUITS UNDER ROADWAY AT THIS LOCATION SHALL BE CONCRETE ENCASED. SEE DETAILS FOR ADDITIONAL INFORMATION.
 - COORDINATE AIMING WITH OWNER AT NIGHT.
 - PROVIDE JUNCTION BOX FOR POWER CONNECTION TO MONUMENT SIGN.



2 DETAIL - TRANSFORMER PAD
NTS

1 SITE PLAN - ELECTRICAL
1" = 20'-0"



REVISION SCHEDULE	
#	REVISION DESCRIPTION

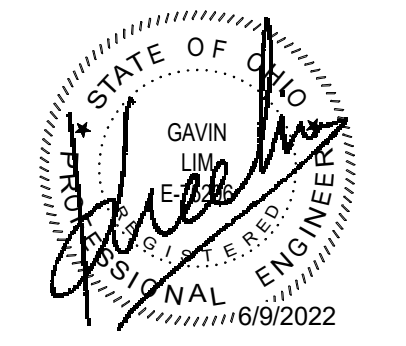
PROJECT NAME :

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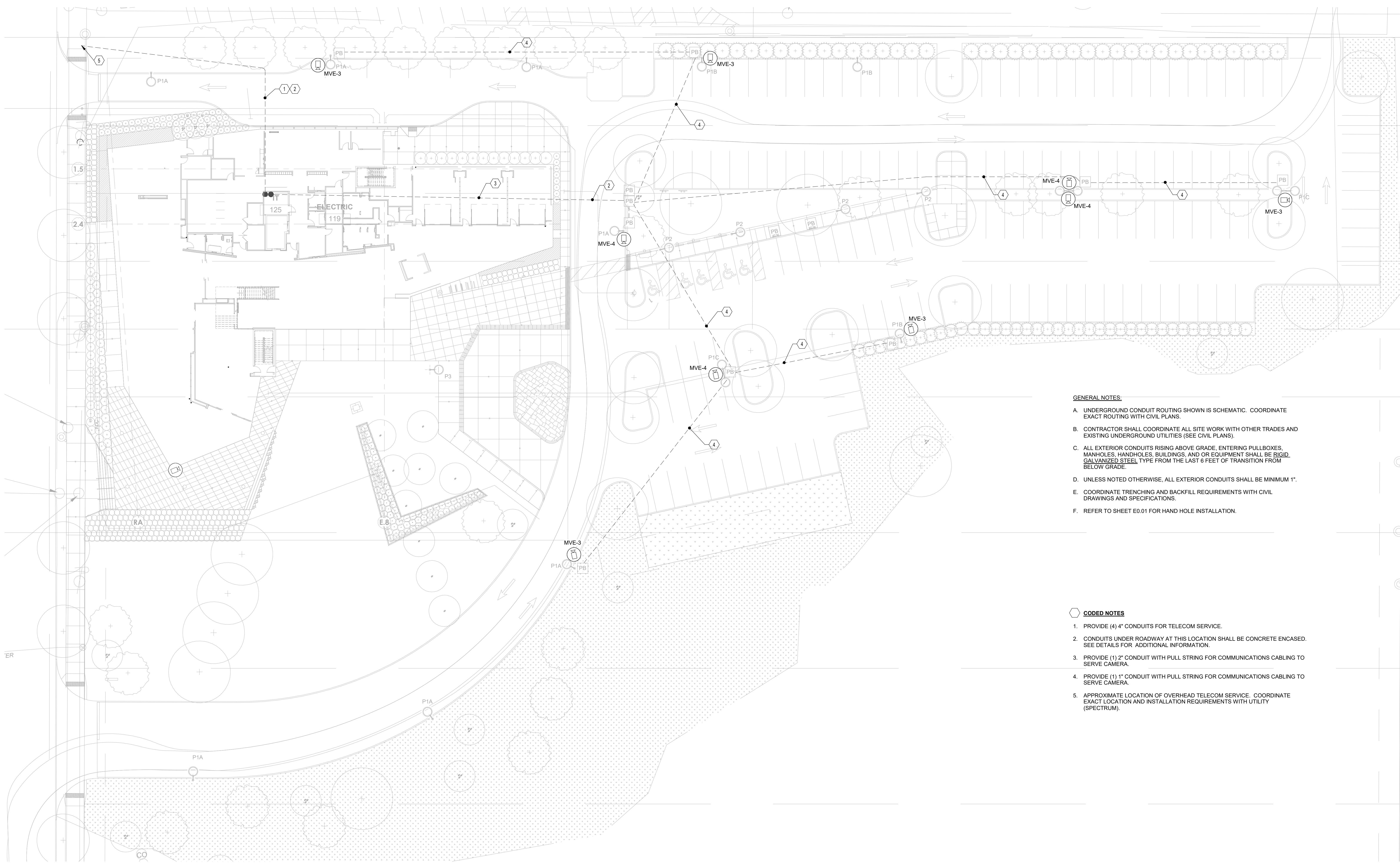
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SITE PLAN - ELECTRICAL

E0.01

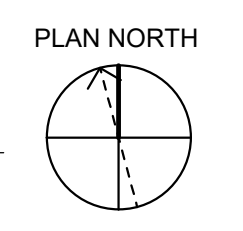
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- GENERAL NOTES:**
- A. UNDERGROUND CONDUIT ROUTING SHOWN IS SCHEMATIC. COORDINATE EXACT ROUTING WITH CIVIL PLANS.
 - B. CONTRACTOR SHALL COORDINATE ALL SITE WORK WITH OTHER TRADES AND EXISTING UNDERGROUND UTILITIES (SEE CIVIL PLANS).
 - C. ALL EXTERIOR CONDUITS RISING ABOVE GRADE, ENTERING PULLBOXES, MANHOLES, HANDHOLES, BUILDINGS, AND/OR EQUIPMENT SHALL BE RIGID GALVANIZED STEEL TYPE FROM THE LAST 6 FEET OF TRANSITION FROM BELOW GRADE.
 - D. UNLESS NOTED OTHERWISE, ALL EXTERIOR CONDUITS SHALL BE MINIMUM 1".
 - E. COORDINATE TRENCHING AND BACKFILL REQUIREMENTS WITH CIVIL DRAWINGS AND SPECIFICATIONS.
 - F. REFER TO SHEET E0.01 FOR HAND HOLE INSTALLATION.

- CODED NOTES**
- 1. PROVIDE (4) 4" CONDUITS FOR TELECOM SERVICE.
 - 2. CONDUITS UNDER ROADWAY AT THIS LOCATION SHALL BE CONCRETE ENCASED. SEE DETAILS FOR ADDITIONAL INFORMATION.
 - 3. PROVIDE (1) 2" CONDUIT WITH PULL STRING FOR COMMUNICATIONS CABLING TO SERVE CAMERA.
 - 4. PROVIDE (1) 1" CONDUIT WITH PULL STRING FOR COMMUNICATIONS CABLING TO SERVE CAMERA.
 - 5. APPROXIMATE LOCATION OF OVERHEAD TELECOM SERVICE. COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH UTILITY (SPECTRUM).

1 SITE PLAN - TELECOMMUNICATIONS
1" = 20'-0"



REVISION SCHEDULE	
#	REVISION DESCRIPTION

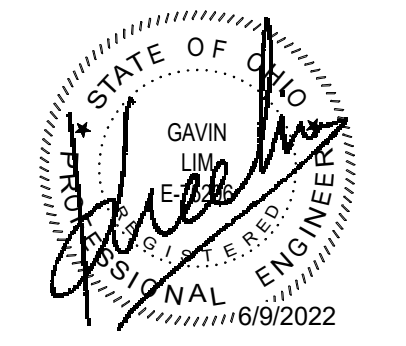
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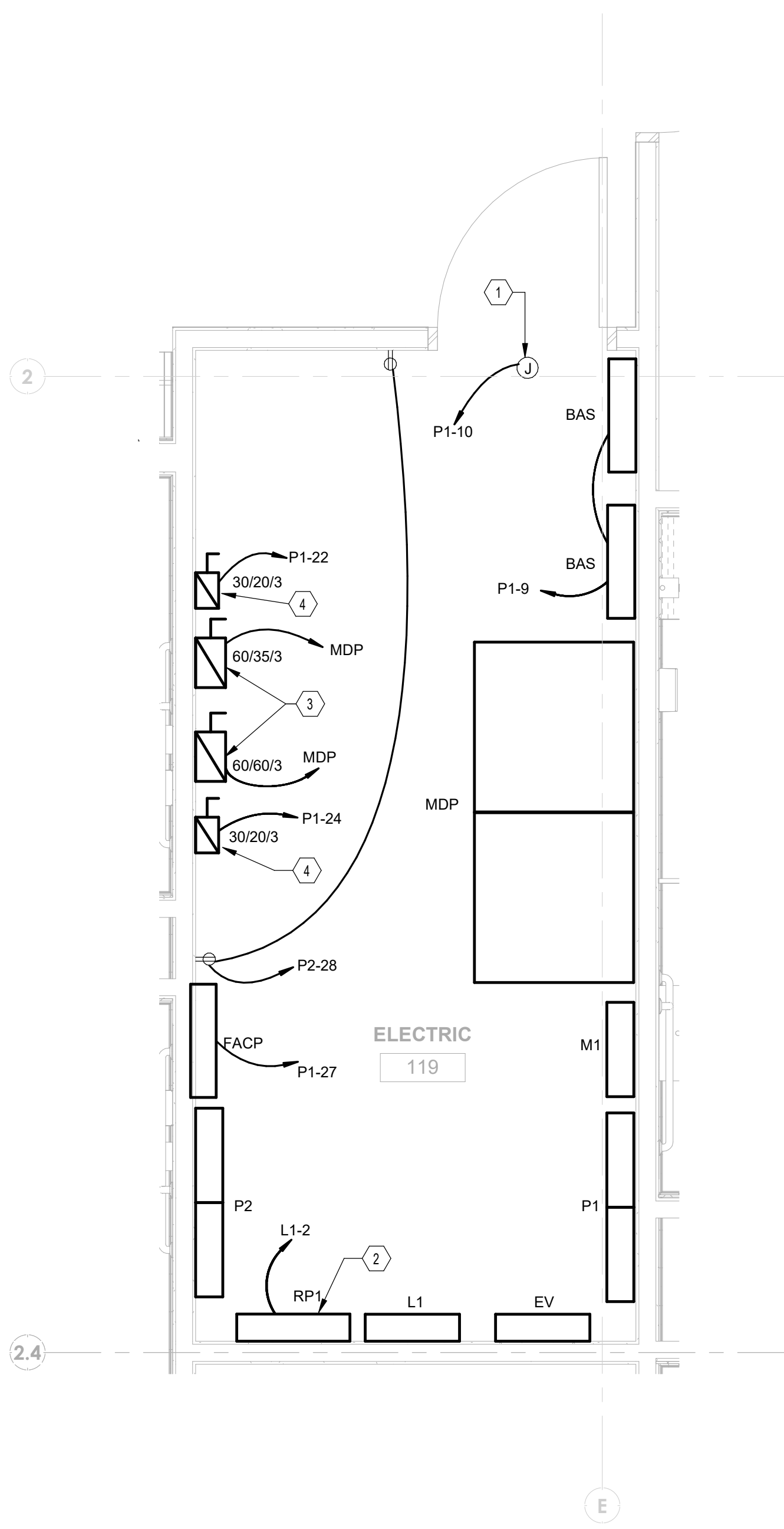
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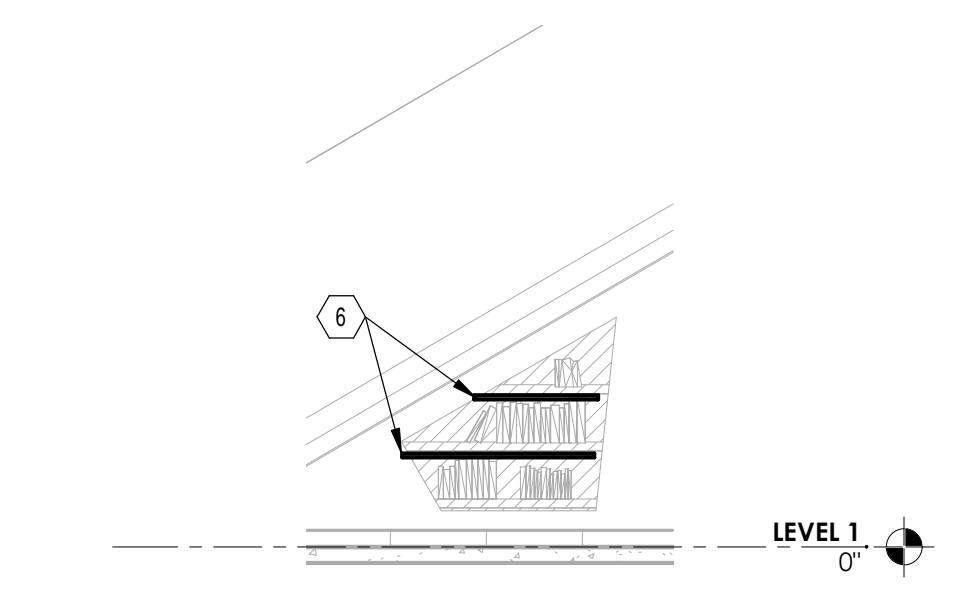


SITE PLAN - TELECOMMUNICATIONS

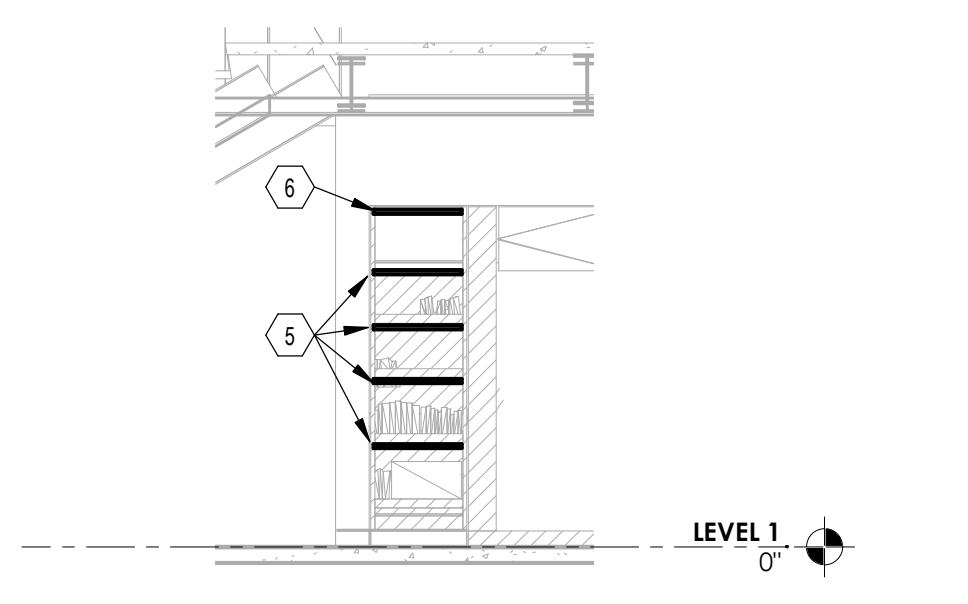
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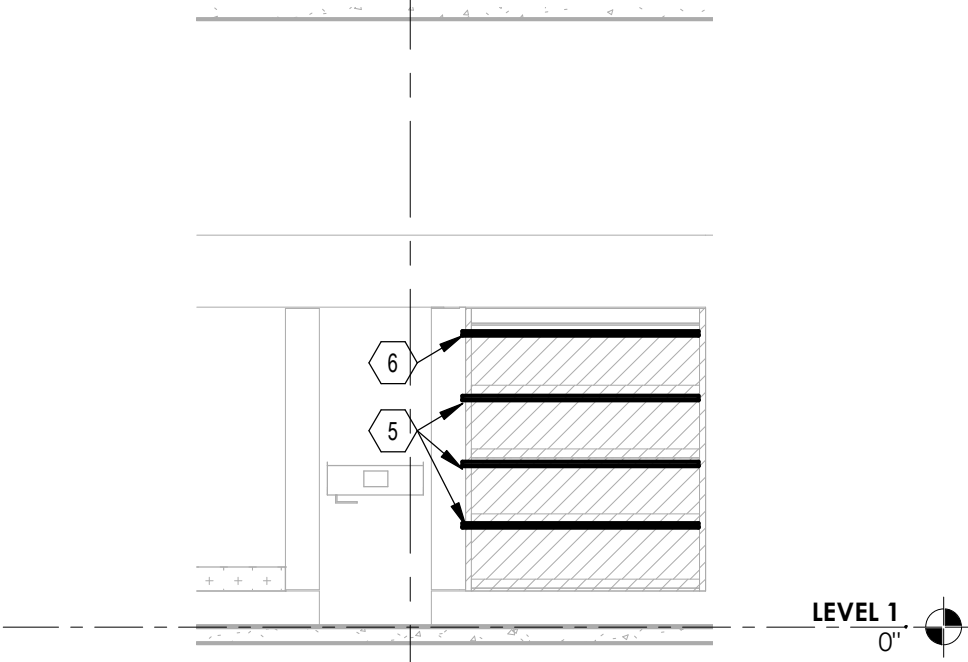
1 ENLARGED PLAN - ELECTRICAL ROOM 119 - POWER
1/2" = 1'-0"



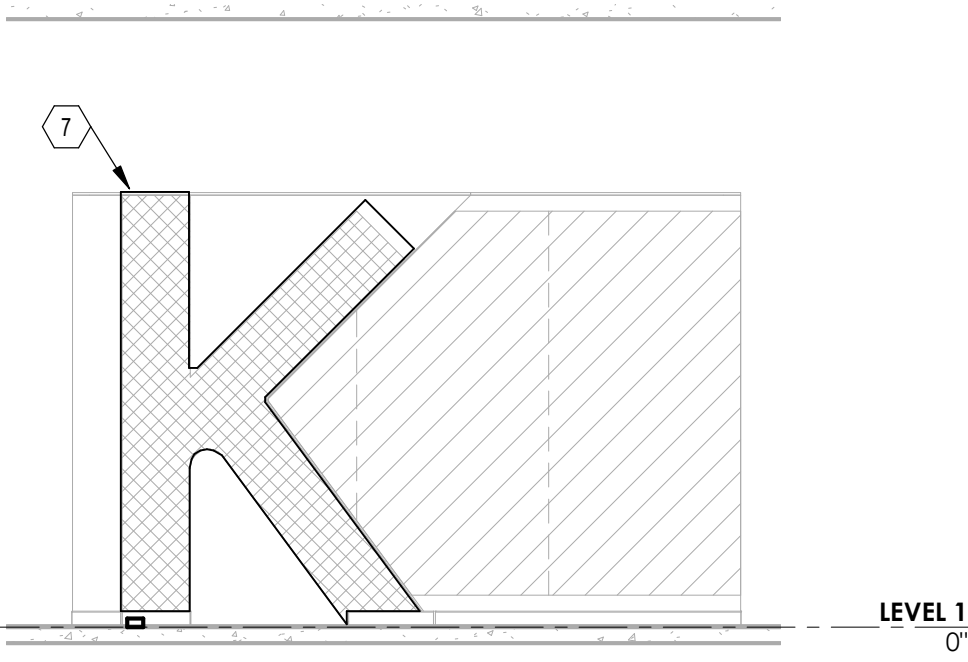
2 ENTRY HALL BOOKCASE LTG 1
1/4" = 1'-0"



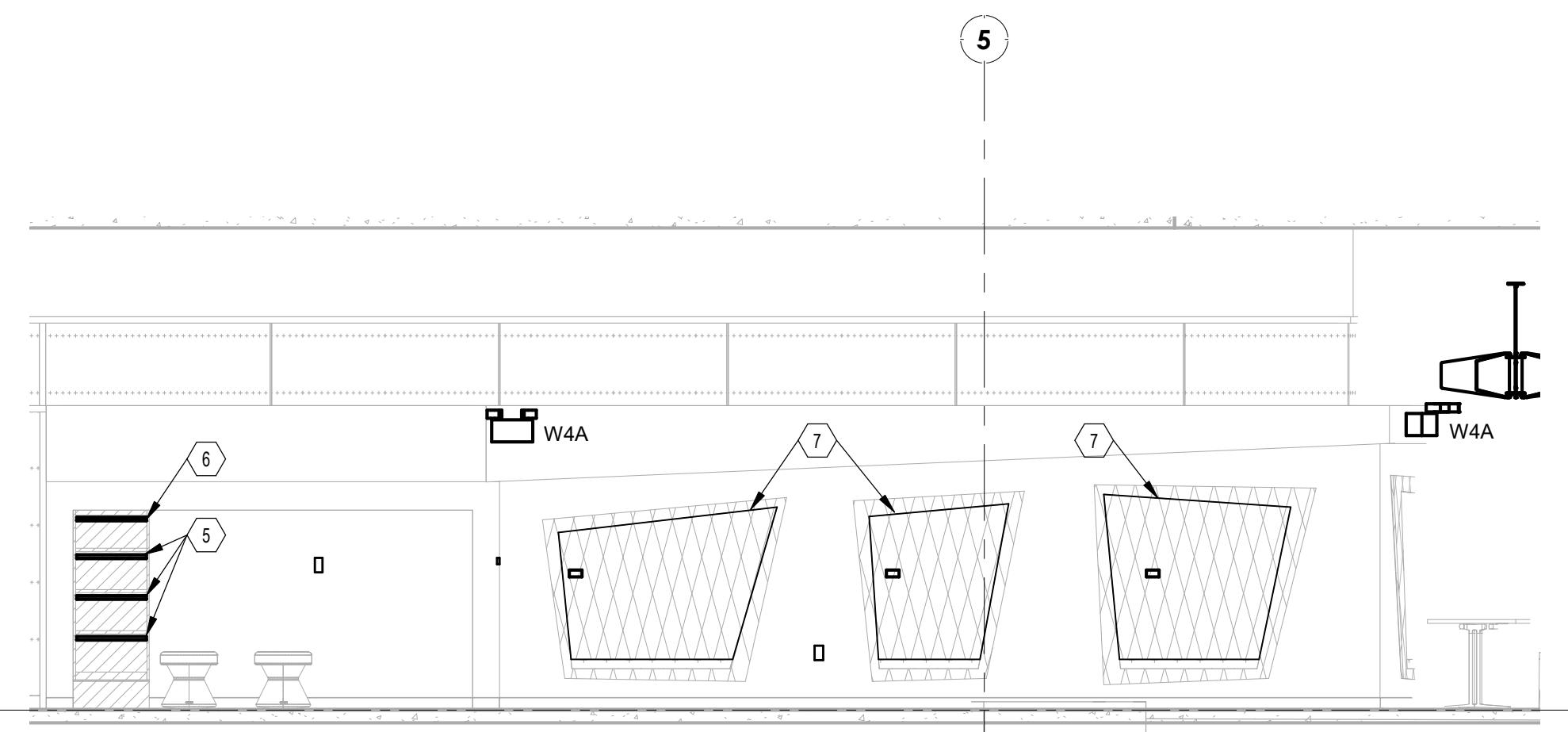
3 ENTRY HALL BOOKCASE LTG 2
1/4" = 1'-0"



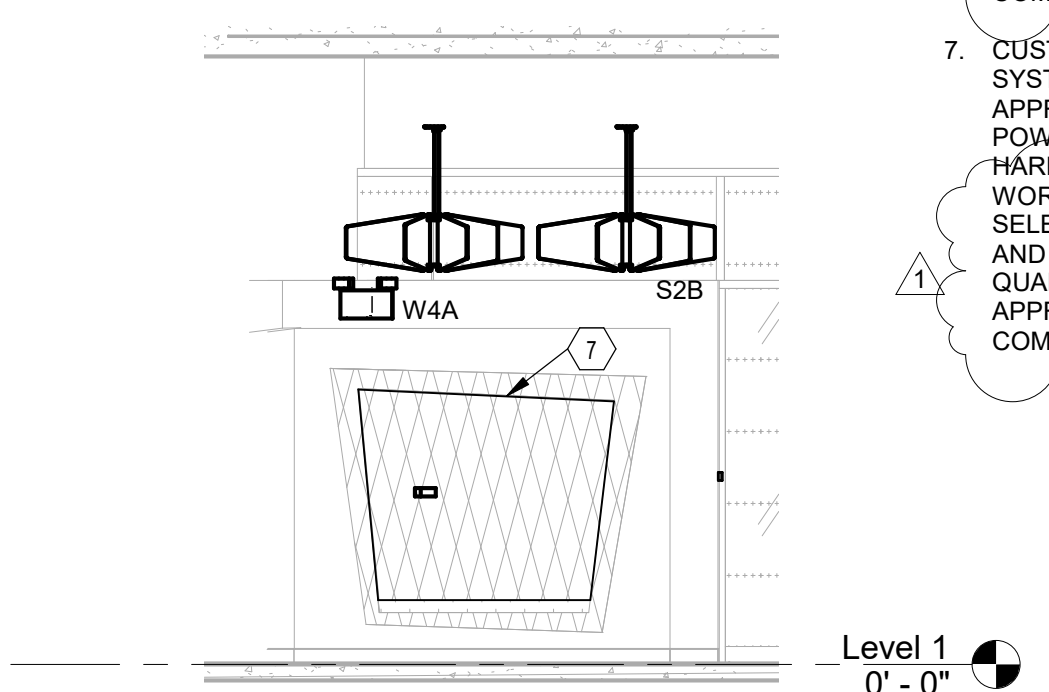
4 READY FOR K BOOKCASE LTG
1/4" = 1'-0"



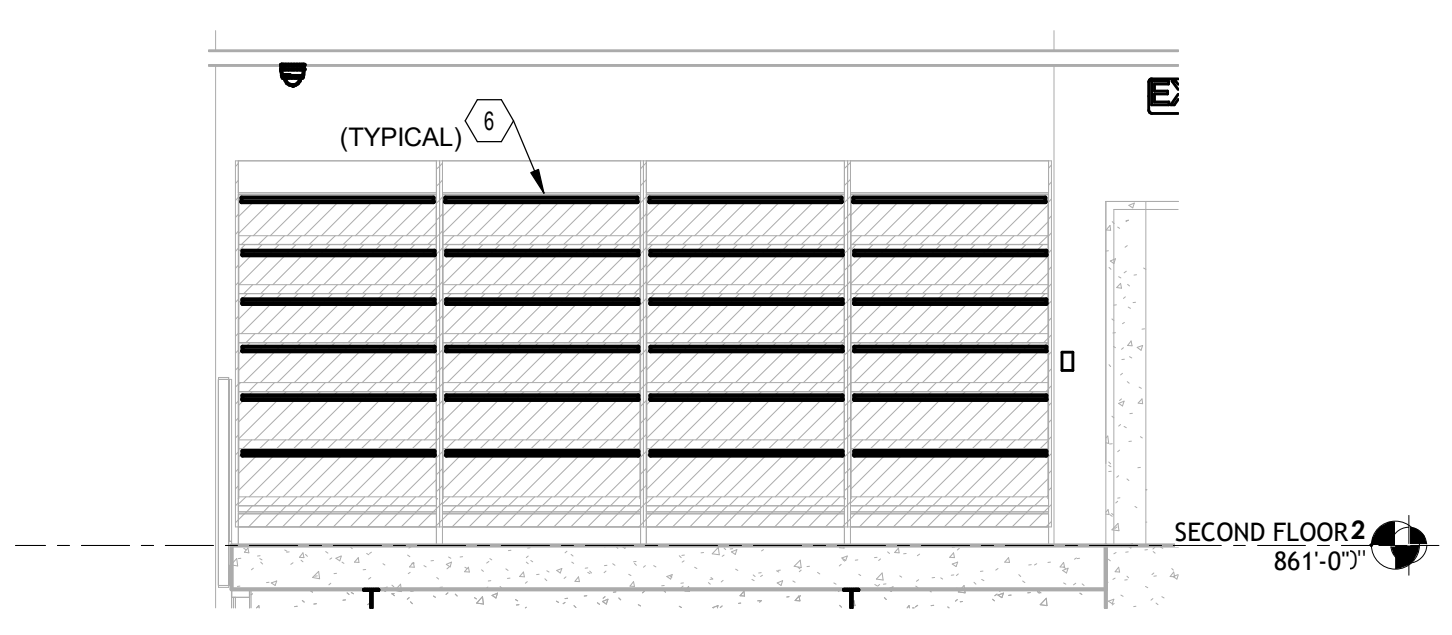
5 READY FOR K SIGN
1/4" = 1'-0"



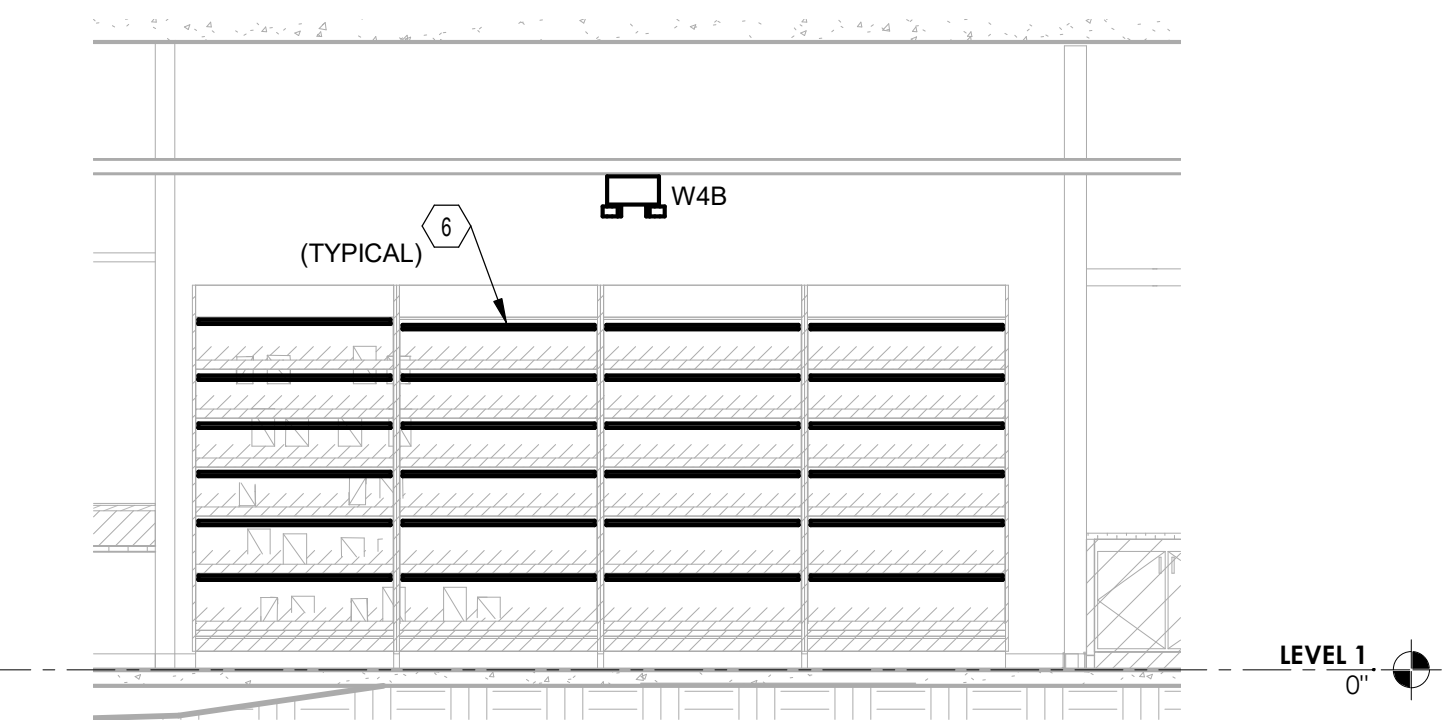
6 YOUNG CHILDRENS BOOKCASE LTG
1/4" = 1'-0"



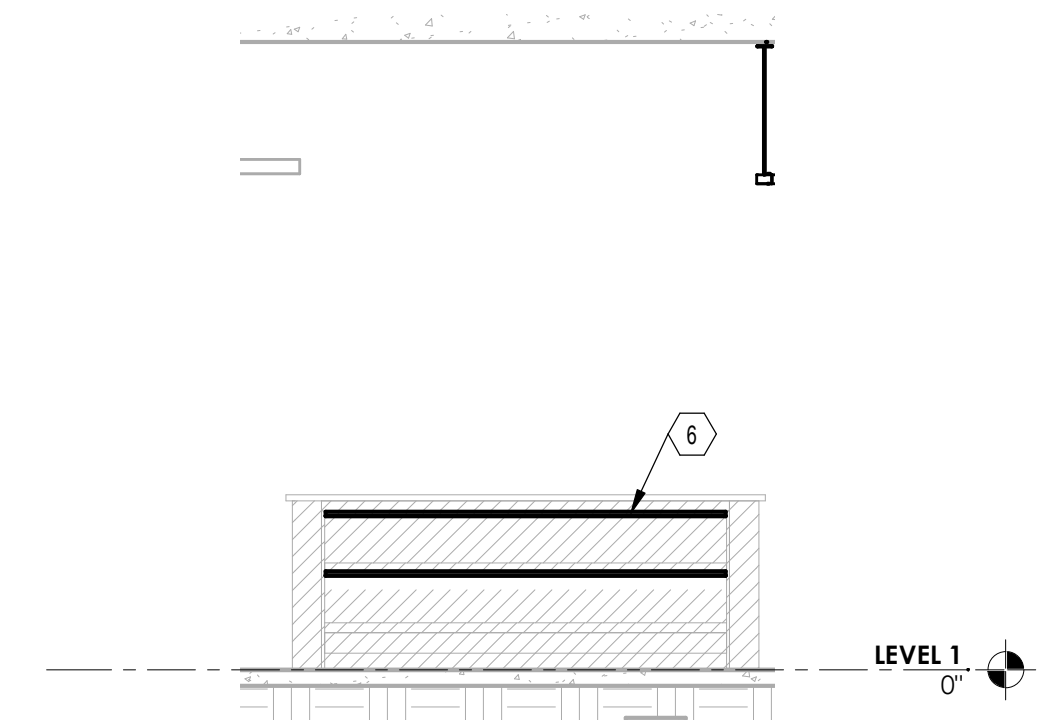
7 TWEENS BOOKCASE LTG
1/4" = 1'-0"



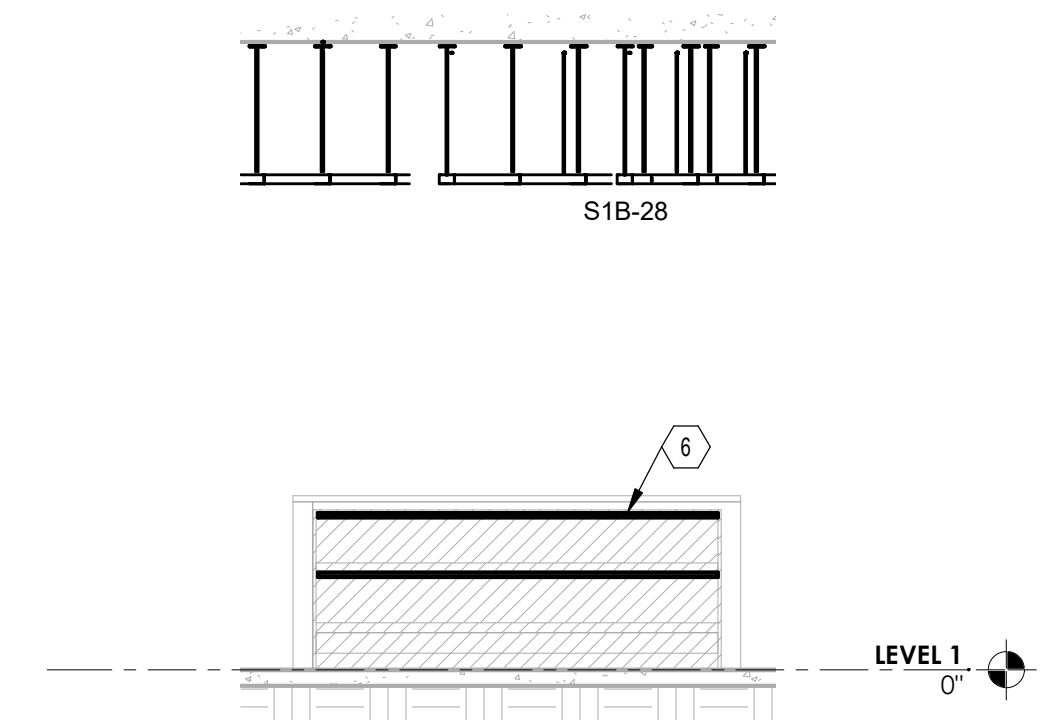
11 READING/STUDY 200.1 BOOKCASE LTG
1/4" = 1'-0"



8 ENTRY HALL BOOKCASE LTG
1/4" = 1'-0"



9 BUSINESS CENTER BOOKCASE LTG
1/4" = 1'-0"



10 BUSINESS CENTER BOOKCASE LTG1
1/4" = 1'-0"

- GENERAL NOTES:**
- FIELD VERIFY EXACT LOCATIONS OF ALL RECEPTACLES AND EQUIPMENT. REFER TO DRAWINGS AND SPECIFICATIONS OF OTHER CONSTRUCTION WORK TRADES FOR ADDITIONAL ELECTRICAL WORK INCLUDED IN DIVISION 26.
 - COORDINATE ALL ROUGH-IN REQUIREMENTS OF DEVICES IN CASEWORK, FURNITURE AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
 - UNLESS NOTED OTHERWISE, ALL CABLING SHALL BE EMT CONDUIT (MINIMUM 3/4") AND ROUTE PARALLEL AND TIGHT TO BUILDING STRUCTURE.
 - PROVIDE FINAL CONNECTIONS AS SHOWN TO ALL EQUIPMENT SHOWN PER MANUFACTURER'S PUBLISHED INSTRUCTION.
 - COORDINATE DEVICE COLOR SELECTIONS WITH ARCHITECT AND OWNER.
 - REFER TO SHEET E0.00 FOR ADDITIONAL INFORMATION ON FLOORBOX TYPE.
 - REFER TO MECHANICAL SCHEDULE SHEETS M6.01 AND M6.02 FOR ADDITIONAL INFORMATION.
 - COORDINATE FINAL FLOOR BOX LOCATION WITH ARCHITECTURAL FURNITURE PLANS.

- CODED NOTES:**
- PROVIDE JUNCTION BOX FOR POWER CONNECTION TO DOOR HARDWARE POWER SUPPLY.
 - LIGHTING CONTROL PANEL BY BAS VENDOR.
 - PROVIDE DISCONNECT SWITCH WITH SPD FOR ELEVATOR CONTROLLER. REFER TO SPECIFICATION 26 28 17 AND ELEVATOR SHOP DRAWINGS FOR ADDITIONAL INFORMATION.
 - PROVIDE DISCONNECT SWITCH FOR ELEVATOR CAB LIGHTING AND RECEPTACLE. REFER TO ELEVATOR SHOP DRAWINGS FOR ADDITIONAL INFORMATION.
 - BOOK DISPLAY LIGHTING. CORNER MOUNT LUMINAIRE WITH FROSTED LENS IN FRONT CORNER OF ANGLED SHELF (LED800-CMC OR EQUAL). PROVIDE POWER SUPPLIES, CONNECTORS, MOUNTING CLIPS, ETC TO MAKE A COMPLETE WORKING SYSTEM. REFER TO ELEVATION PLANS AND ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION. LOCATE REMOTB DRIVER IN ACCESSIBLE LOCATION. BUILD MOCKUPS TO VERIFY SELECTIONS MADE UNDER SAMPLE SUBMITTALS AND TO DEMONSTRATE AESTHETIC EFFECTS AND QUALITIES OF MATERIALS AND EXECUTION. APPROVED MOCKUPS MAY BECOME PART OF THE COMPLETED WORK.
 - BOOK DISPLAY LIGHTING. RECESSED STRIP AT TOP FLAT SHELF (LED8000-LMC OR APPROVED EQUAL). PROVIDE POWER SUPPLIES, CONNECTORS, MOUNTING CLIPS, ETC TO MAKE A COMPLETE WORKING SYSTEM. REFER TO ELEVATION PLANS AND ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION. LOCATE REMOTB DRIVER IN ACCESSIBLE LOCATION. BUILD MOCKUPS TO VERIFY SELECTIONS MADE UNDER SAMPLE SUBMITTALS AND TO DEMONSTRATE AESTHETIC EFFECTS AND QUALITIES OF MATERIALS AND EXECUTION. APPROVED MOCKUPS MAY BECOME PART OF THE COMPLETED WORK.
 - CUSTOM ILLUMINATED BACKLIT RGB MODULE SYSTEM. ALANSON SKYLINE ACLW-RGB3 40 OR APPROVED EQUAL. PROVIDE RGB CONTROLLER, POWER SUPPLIES, CONNECTORS, MOUNTING HARDWARE ETC. TO MAKE A COMPLETE WORKING SYSTEM. BUILD MOCKUPS TO VERIFY SELECTIONS MADE UNDER SAMPLE SUBMITTALS AND TO DEMONSTRATE AESTHETIC EFFECTS AND QUALITIES OF MATERIALS AND EXECUTION. APPROVED MOCKUPS MAY BECOME PART OF THE COMPLETED WORK.

REVISION SCHEDULE		
#	DATE	REVISION DESCRIPTION
1	07.05.22	Addendum 01

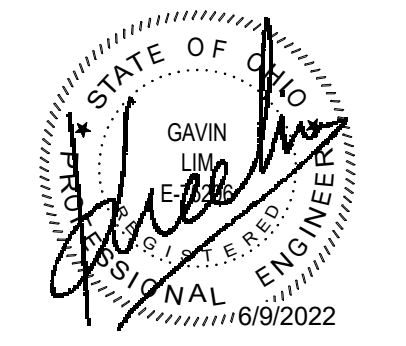
PROJECT NAME :

CML REYNOLDSBURG
1402 BRICE ROAD
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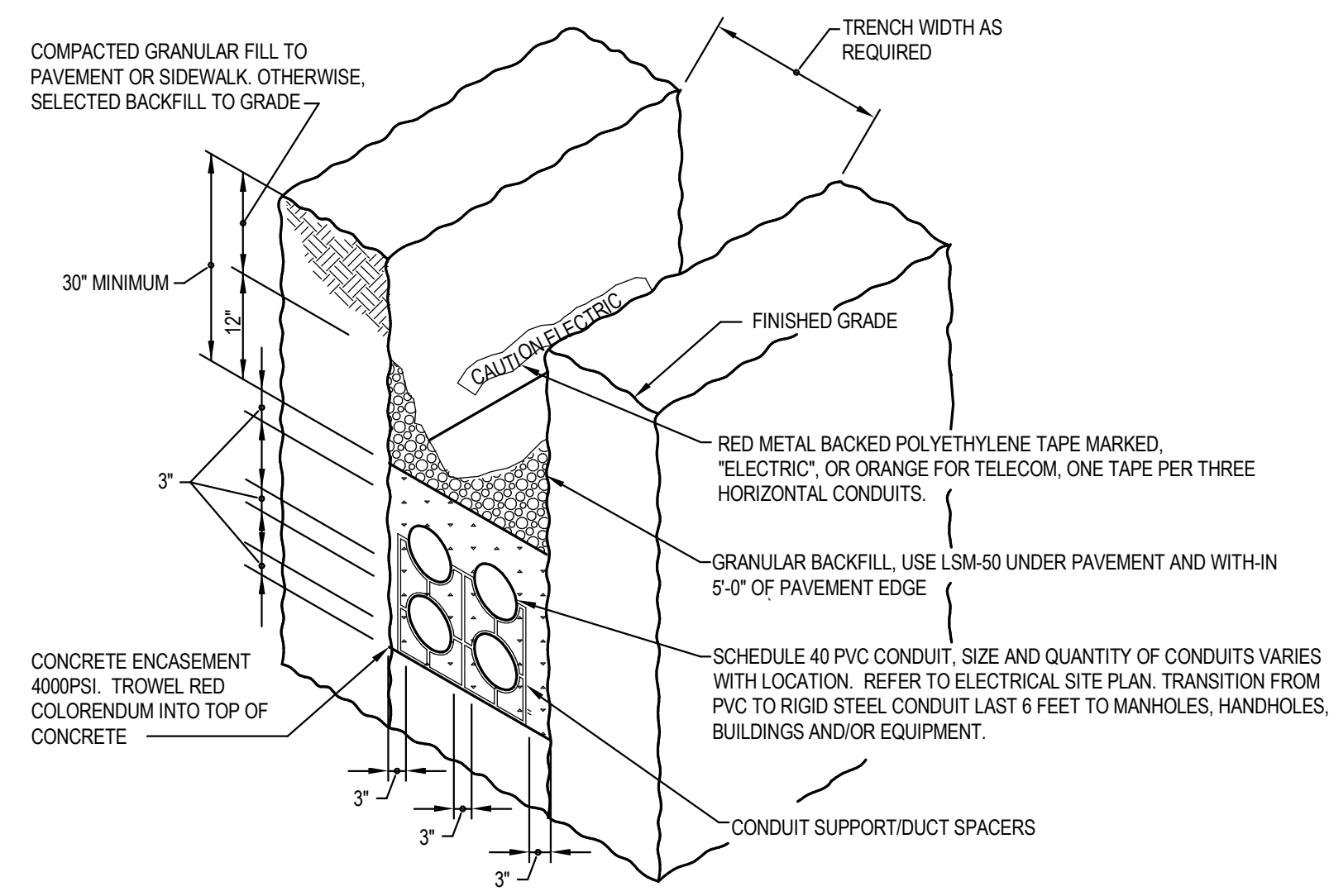
ISSUE DATE : 06/10/22

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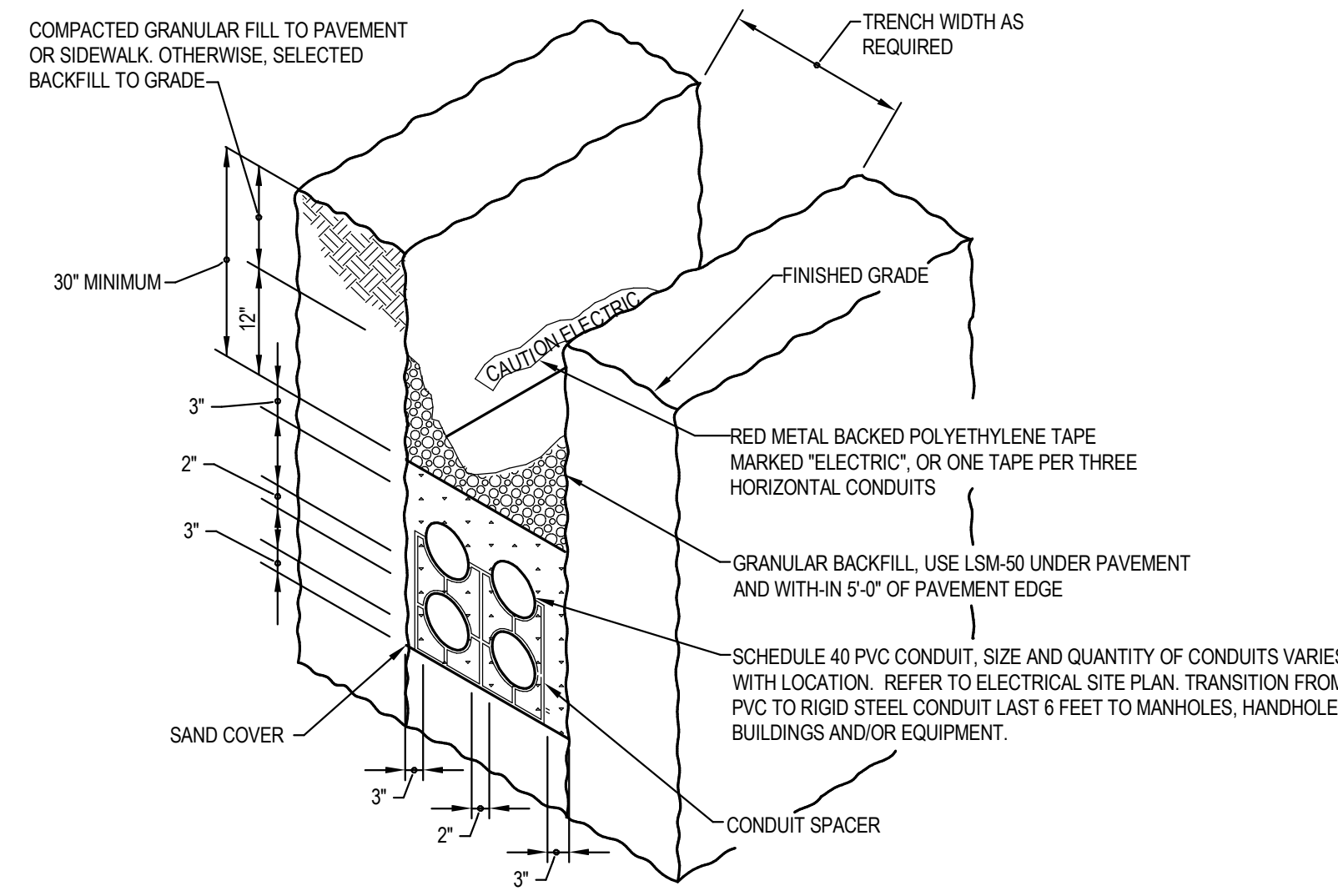


ENLARGED PLANS - SECTIONS

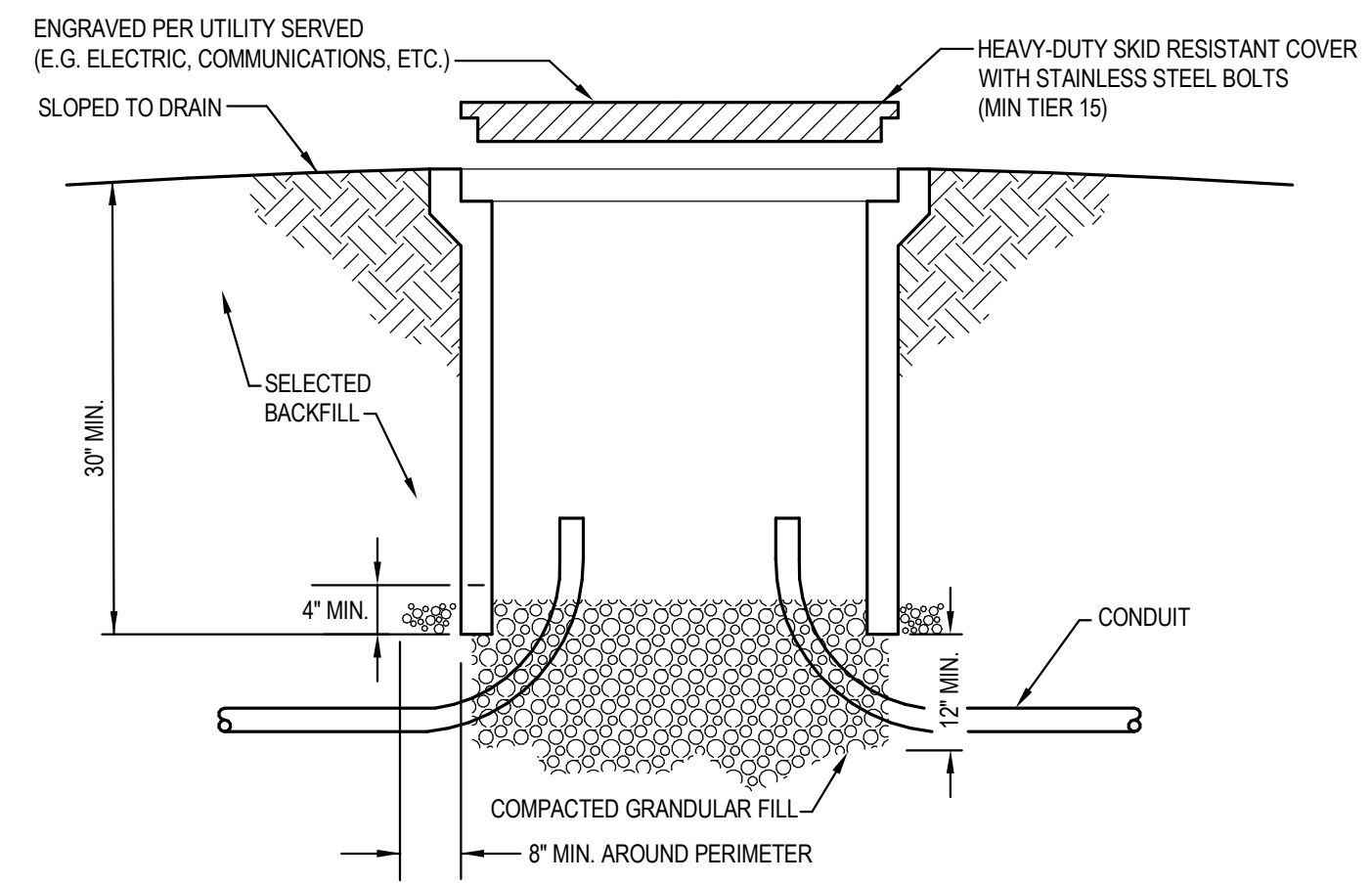
E4.03



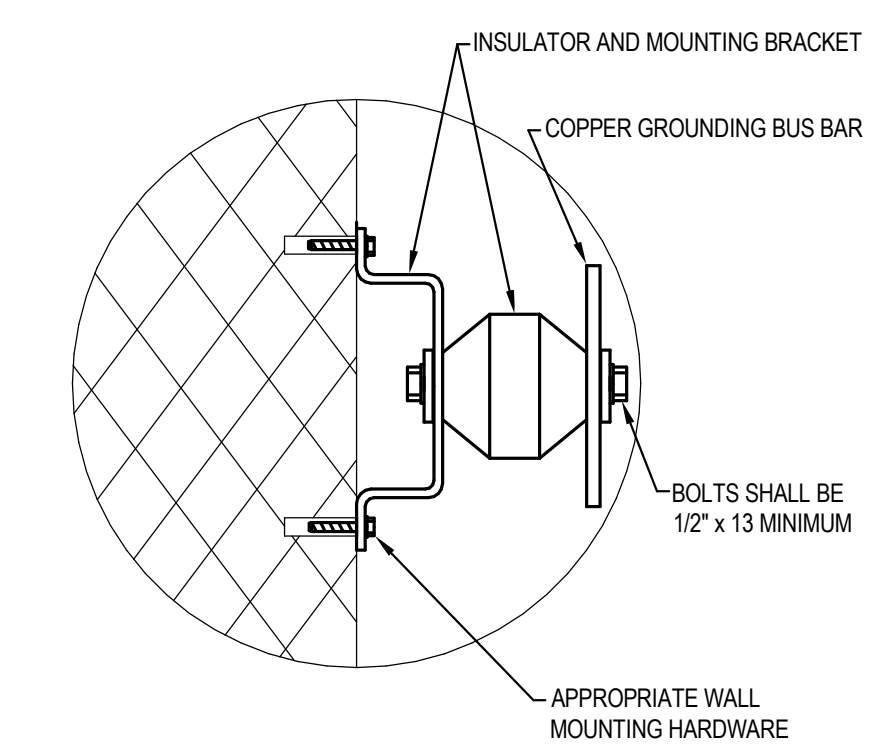
1 DETAIL - CONCRETE ENCASED DUCTBANK
NTS



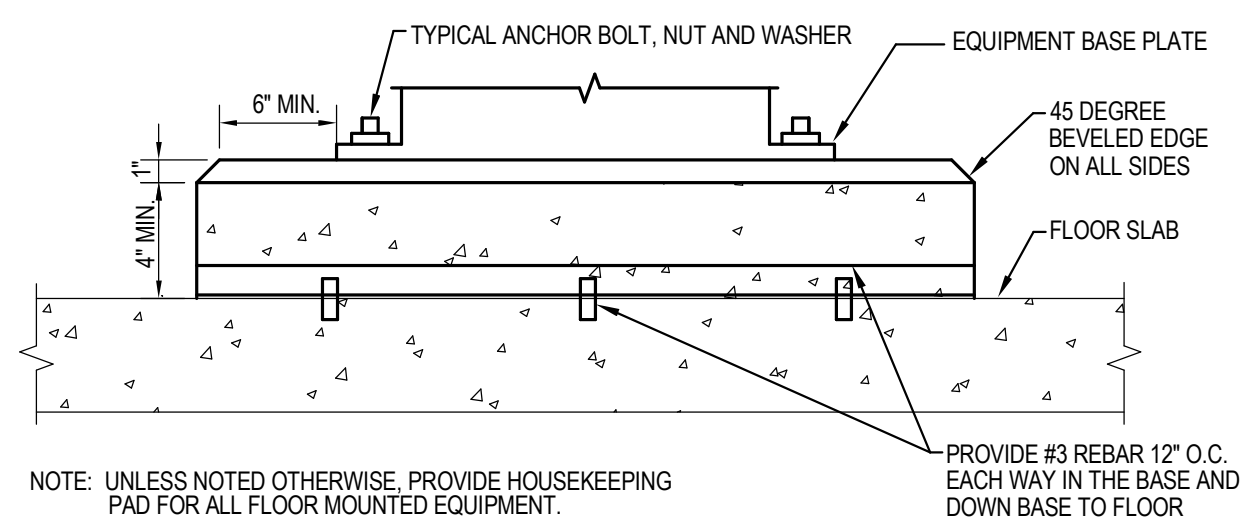
2 DETAIL - DIRECT BURIED CONDUIT
NTS



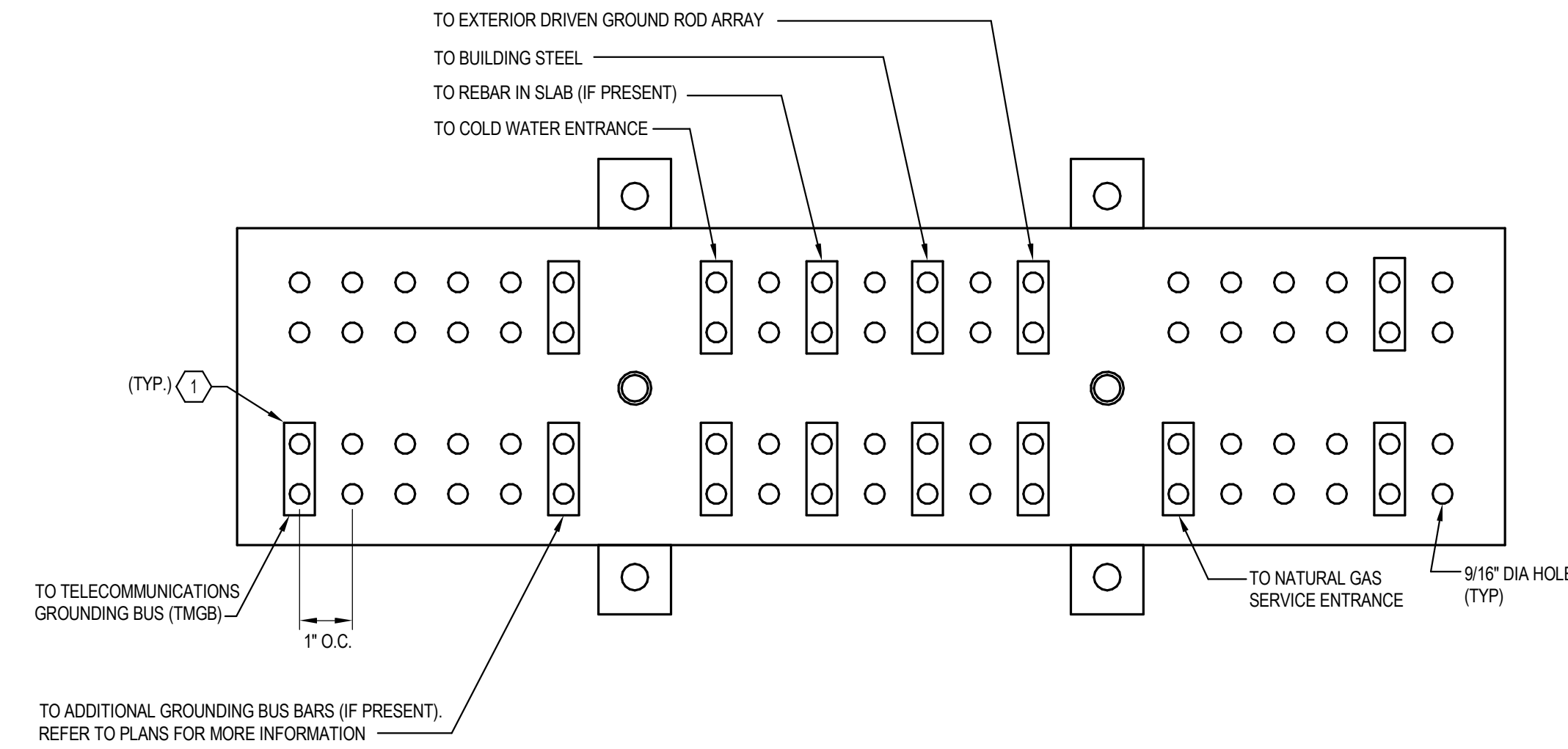
3 DETAIL - TYPICAL PULLBOX
NTS



4 DETAIL - BUS BAR MOUNTING
NTS



5 DETAIL - INTERIOR EQUIPMENT HOUSKEEPING PAD
NTS

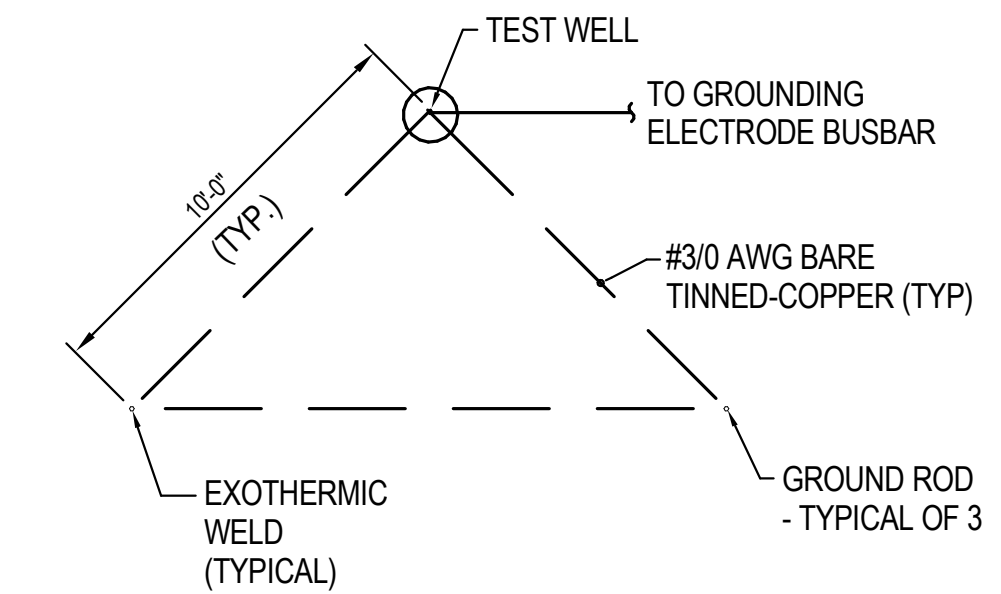


DETAIL GENERAL NOTES:

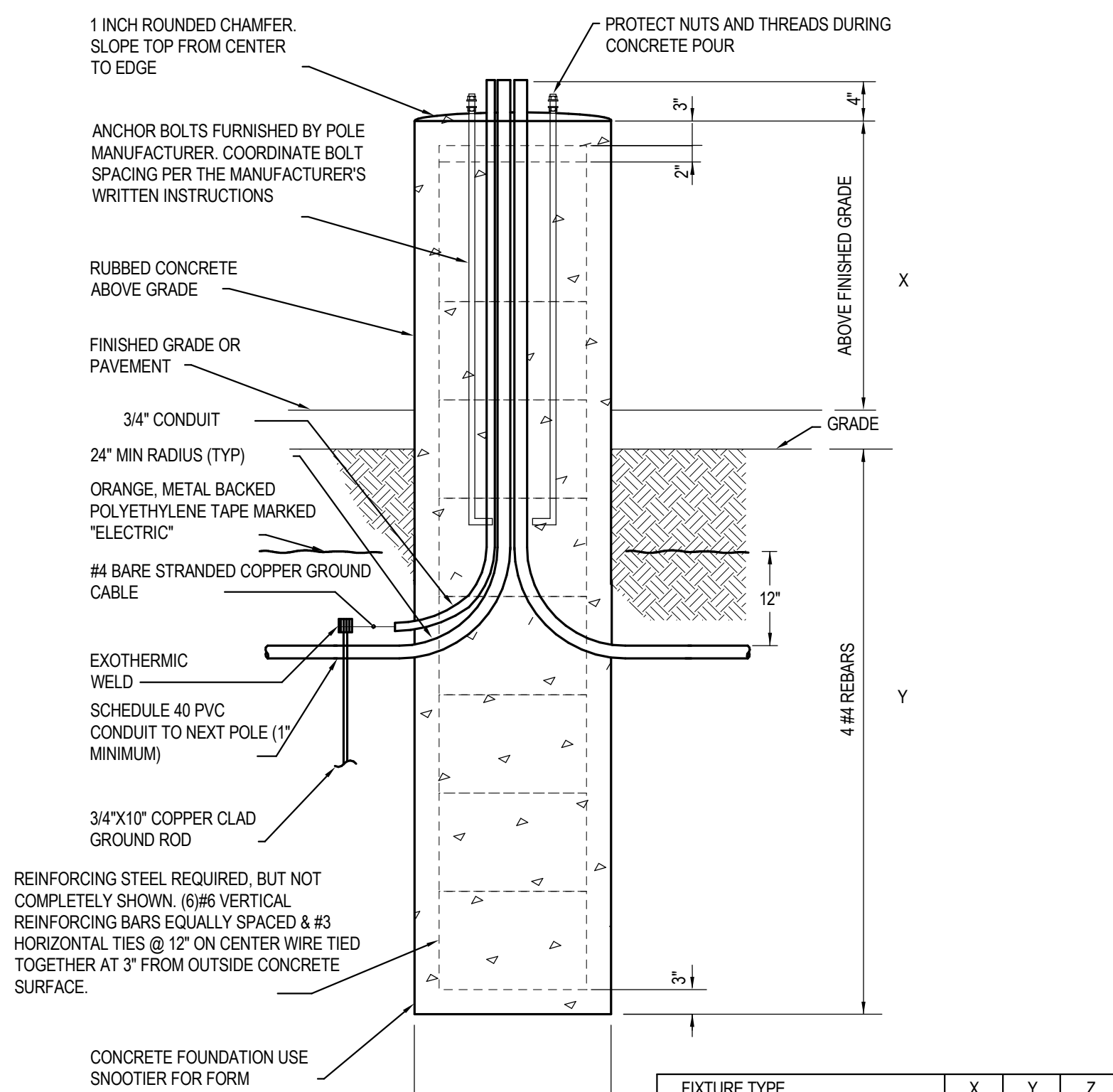
- A. MINIMUM REQUIRED SIZE OF BUS SHALL BE 6\"/>

DETAIL CODED NOTES:

- 1. ALL GROUND WIRING CONNECTING TO GROUNDING BUS BAR SHALL BE MINIMUM #3/0 AWG UNLESS NOTED OTHERWISE.



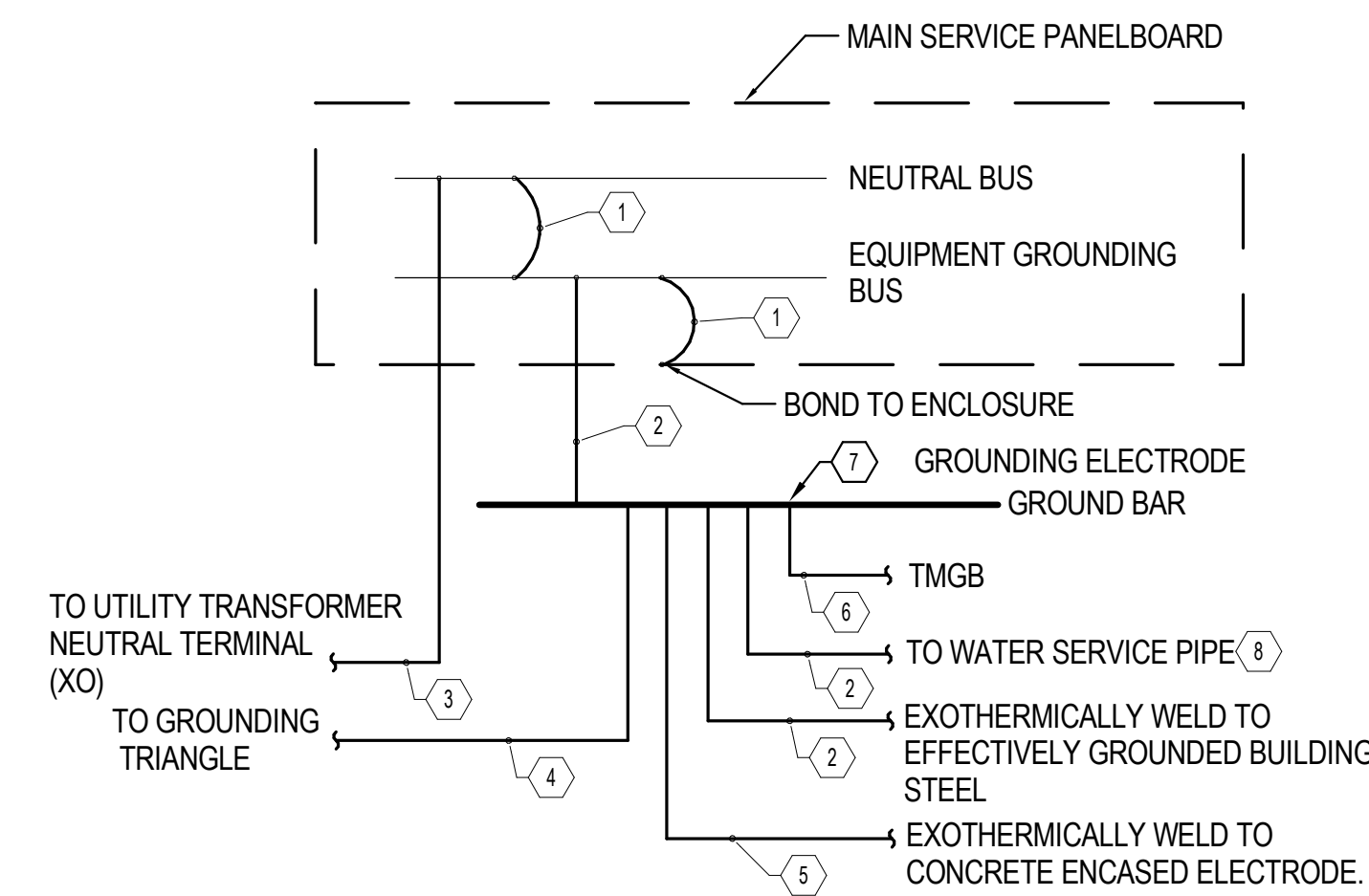
7 DETAIL - GROUND TRIANGLE
NTS



FIXTURE TYPE	X	Y	Z
P1A/P1B	36"	54"	24"
P1C	36"	72"	24"
P2/P3	6"	54"	24"

ADJUST POLE HEIGHTS PER DIMENSION 'X' ON DETAIL SHEET SUCH THAT HEIGHTS OF TYPES P1A/P1B, P1C ARE THE SAME AND TYPES P2A AND P2B ARE THE SAME.

8 DETAIL - POLE BASE
NTS



CODED NOTES:

- 1. MAIN BONDING JUMPER: PROVIDED AS PART OF LISTED AND LABELED SERVICE EQUIPMENT.
- 2. GROUNDING ELECTRODE CONDUCTOR: #3/0 AWG COPPER.
- 3. GROUNDED (NEUTRAL) CONDUCTOR: (REFER TO DISTRIBUTION ONE-LINE FOR SIZE).
- 4. SUPPLEMENTAL GROUNDING ELECTRODE BONDING JUMPER CONDUCTOR: #3/0 AWG COPPER.
- 5. GROUND ELECTRODE SYSTEM BONDING JUMPER CONDUCTOR: #3/0 AWG COPPER.
- 6. BONDING CONDUCTOR FOR TELECOMMUNICATIONS: 3/0 AWG STRANDED COPPER WITH GREEN INSULATION.
- 7. PROVIDE UL 467 LISTED CONNECTIONS (TYPICAL).
- 8. PROVIDE #3/0 BOND ACROSS WATER METER.

9 DETAIL - SYSTEM GROUNDING
NTS

REVISION SCHEDULE	
#	REVISION DESCRIPTION

PROJECT NAME :

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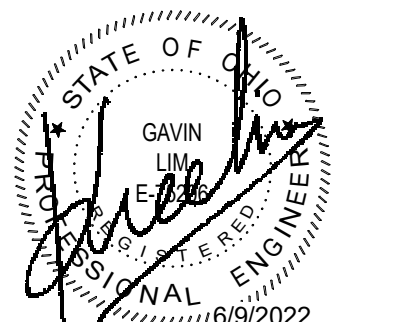
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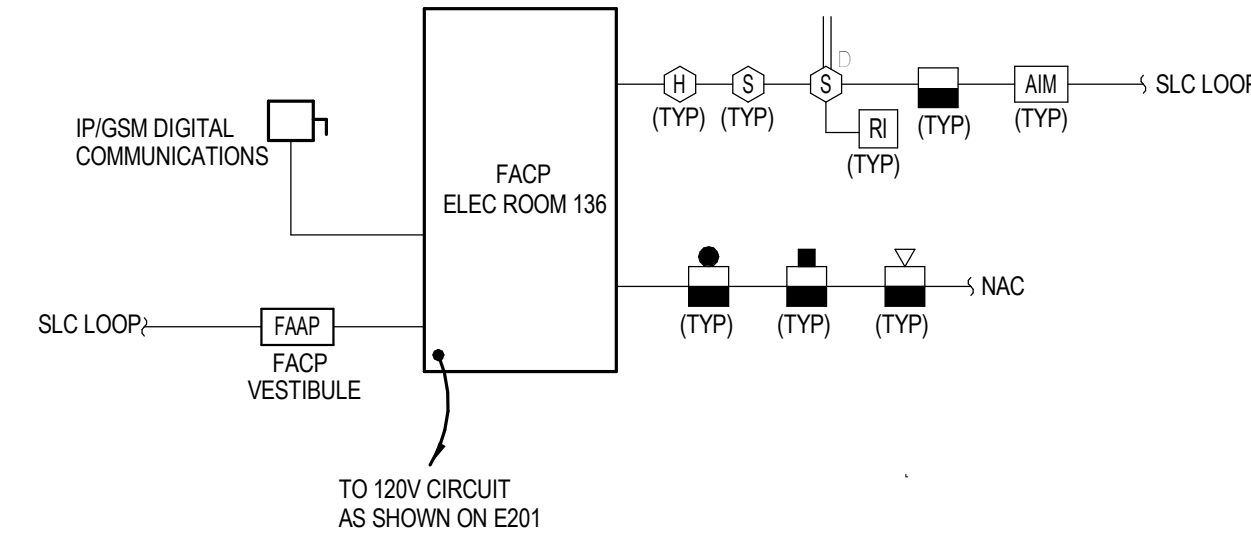
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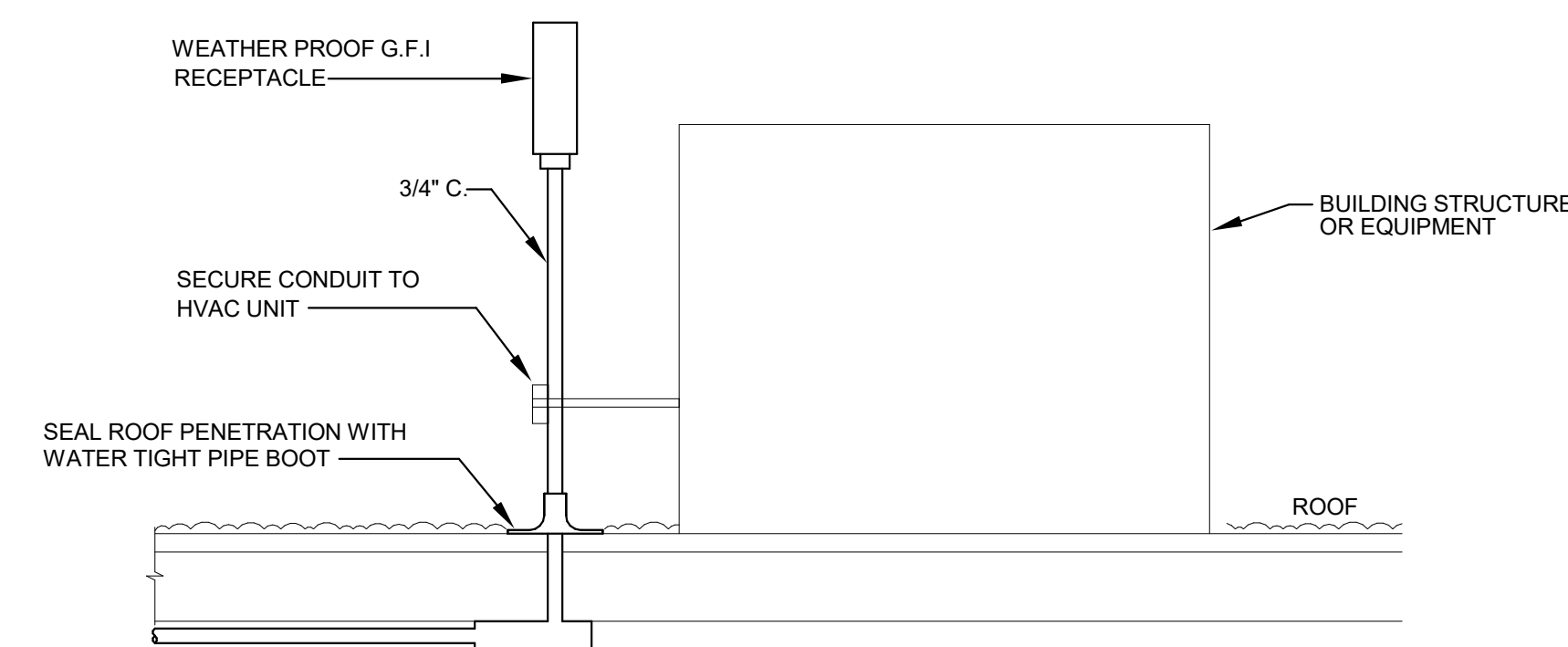


DETAILS - ELECTRICAL

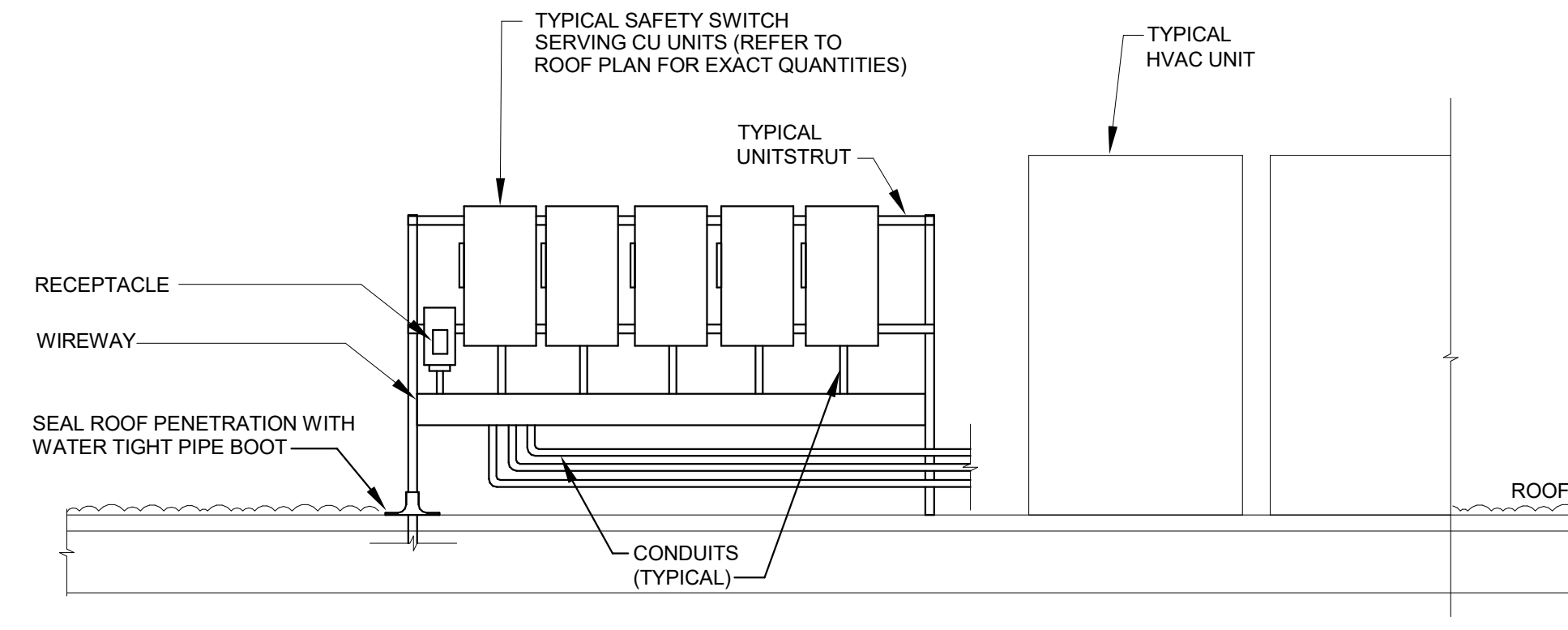
E5.01



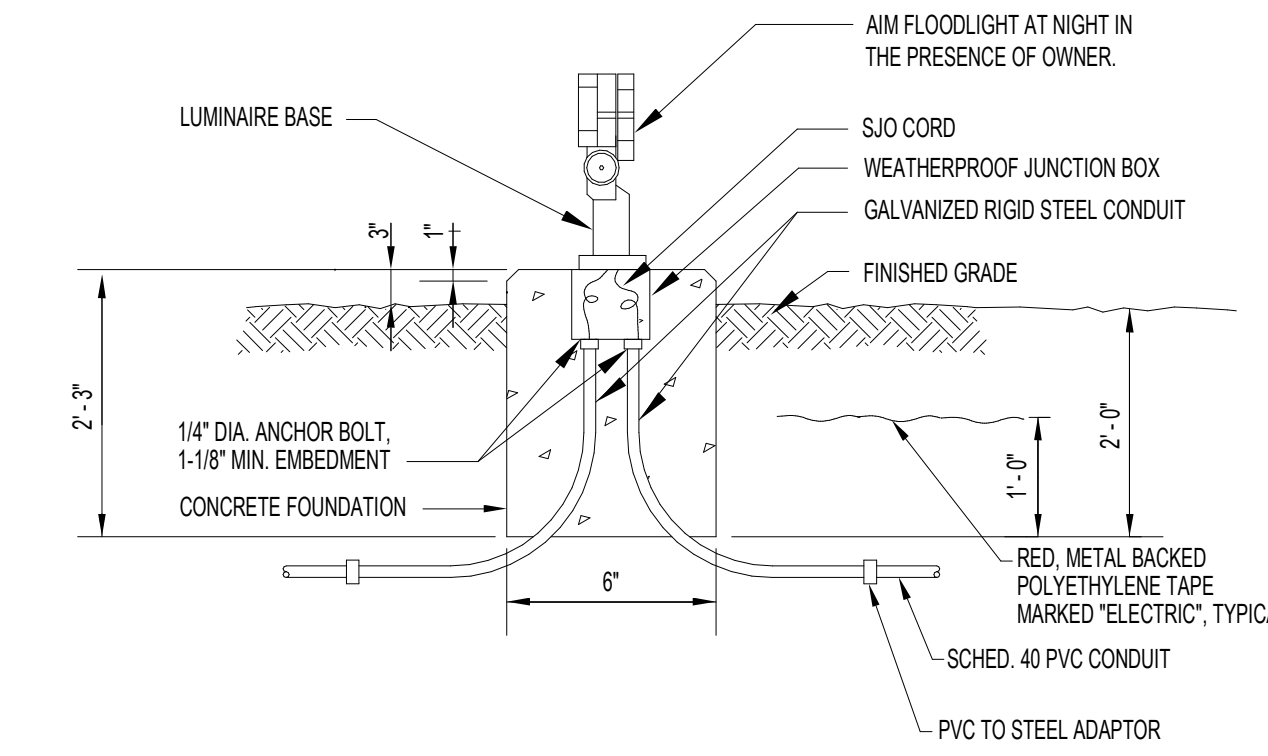
1 DETAIL - FIRE ALARM RISER SYSTEM SCHEMATIC
NTS



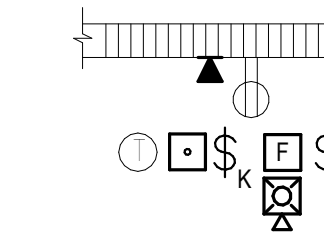
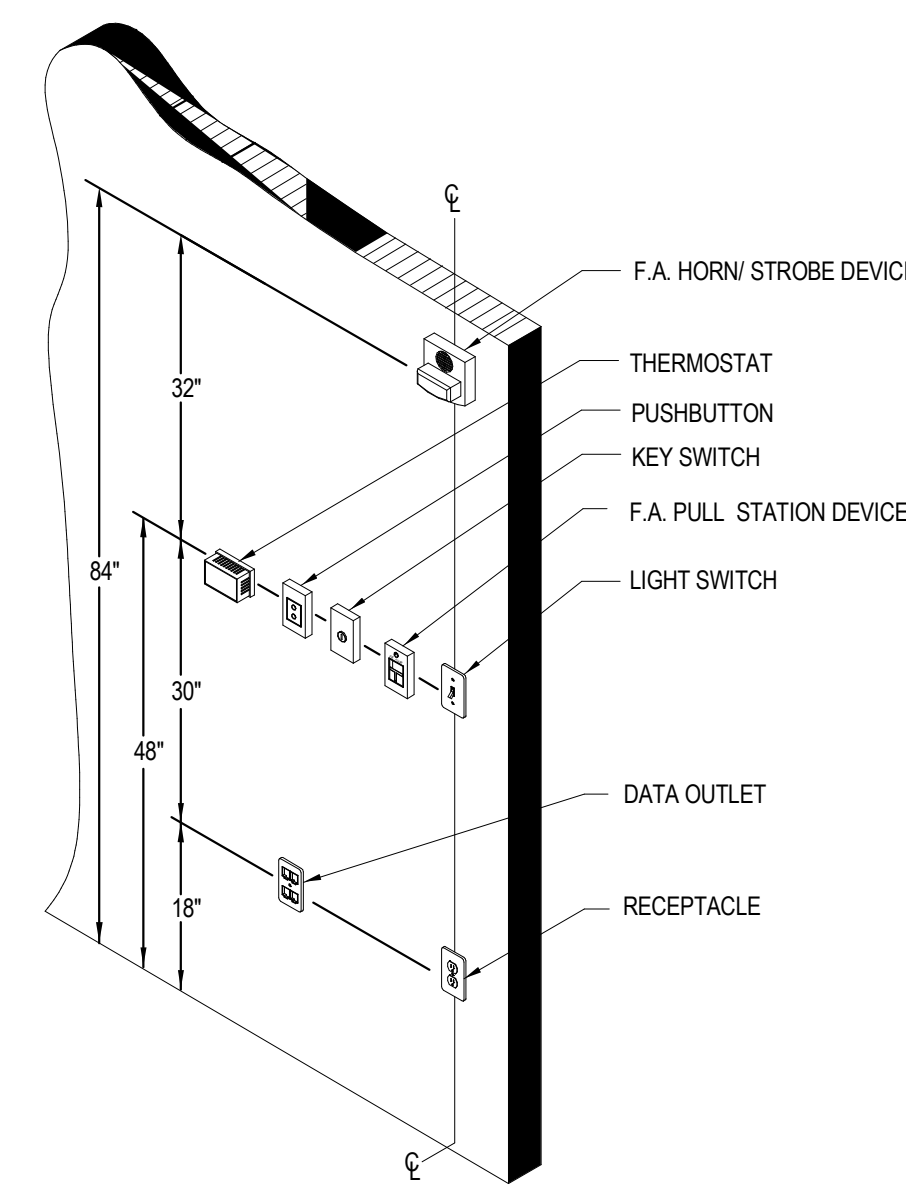
2 DETAIL - ROOFTOP EQUIPMENT LIGHT AND RECEPTACLE
NTS



3 DETAIL - TYPICAL SAFETY SWITCH MOUNTING
NTS



4 DETAIL - FLOOD LIGHTING MOUNT
NTS



- NOTES:
1. DEVICES SHOWN STACKED ALONG WALLS FALL IN THE ORDER OF LOWEST (CLOSEST TO WALL) TO HIGHEST (FURTHEST FROM WALL)
 2. HEIGHTS SHOWN ARE TYPICAL UNLESS OTHERWISE NOTED ELSEWHERE ON DRAWINGS, SPECS OR IDENTIFIED IN APPLICABLE CODES.
 3. VERTICAL DIMENSIONS ARE TO CENTER OF DEVICE.

5 DETAIL - WALL DEVICE ORIENTATION
NTS

REVISION SCHEDULE		
#	DATE	REVISION DESCRIPTION

PROJECT NAME :

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REYNOLDSBURG, OHIO 43068

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DETAILS - ELECTRICAL

E5.02

LUMINAIRE SCHEDULE 1

TYPE	DIMENSIONS	MOUNTING	CONSTRUCTION AND FINISH	DESCRIPTION AND OPTIONS	LAMPS/LUMENS	DRIVER(S)	VOLTAGE/LOAD	APPROVED MANUFACTURER(S)
C1	6" DIA 5.5" HIGH	SURFACE	MARINE GRADE 6060 ALUMINUM, DIE CAST AND EXTRUDED	MONOPOINT CYLINDER DOWNLIGHT MEDIUM DISTRIBUTION, FROSTED LENS, INTEGRAL COLD WEATHER BATTERY	4000K 2200 LUMENS	INTEGRAL 0-10V	120-277V 20W	LIGMAN LJE-80052-20W-M-W40-XX-120277V-DIM-F WE-EF DAC220LED BEGA
C2-8	5" X 8" 5" DEEP	SURFACE	EXTRUDED ALUMINUM HOUSING, DIE CAST AND EXTRUDED	LINEAR SURFACE SLOT FROSTED LENS, BATWING DISTRIBUTION	4000K 1000LUFT	INTEGRAL 0-10V	120-277V 37W	FOCAL POINT F5M4LS-BW-1000LF-40K-1C-UNV-LD1-SM-8' FINELINE AXIS
G1	11" DIA 6" DIA	IN GRADE CAST IN CONCRETE	MARINE GRADE 6060 ALUMINUM, DIE CAST AND EXTRUDED	IN GRADE FLAG LIGHT ANTI SLIP LENS, ANTI GLARE LOUVRE, IP67 RATED	4000K 3300 LUMENS	INTEGRAL 0-10V	120-277V 33W	LIGMAN LUM-60785-33W-LJN-W40-120277V WE-EF ETC330-FS LED BEGA
G2	6" DIA 3" DIA	ON GRADE STANCHION	MARINE GRADE 6060 ALUMINUM, DIE CAST AND EXTRUDED	FLOOD LIGHT VERY NARROW FLOOD DISTRIBUTION, SAFETY GLASS, GASKETED, ADJUSTABLE HEAD, WET LOCATION LISTED, IP66 RATED, FUSE KIT	4000K 360 LUMENS	REMOTE	120-277V 4W	LIGMAN UT-50552-2W LED-W40-01-120277V HYDREL PINE WISON
P1A	25"X23" 5" SQ	POLE MOUNTED 17' POLE REFER TO PLANS FOR BASE DETAIL	DIE CAST ALUMINUM 4" SQ ALUM POLE, 188" WALL THICK, FINISH BY ARCHITECT	SITE AREA LIGHT TYPE 2 DISTRIBUTION WITH SPILL CONTROL, MOTION SENSOR, B-LEVEL DIM TO 30%, FUSE KIT	4000K MIN 9100 LUMENS	INTEGRAL B/LEVEL DIMMING	120-277V 63W	MCGRAW GAIN-SA2A-740-U-SL2-XX-AHD245-SPB2 ACUTY DSX0 LED BLC BEACON
P1B	25"X23" 5" SQ	POLE MOUNTED 17' POLE REFER TO PLANS FOR BASE DETAIL	DIE CAST ALUMINUM 6" SQ ALUM POLE, 188" WALL THICK, DARK BRONZE	SITE AREA LIGHT TYPE 4 DISTRIBUTION WITH FORWARD THROW, MOTION SENSOR, B-LEVEL DIM TO 30%, FUSE KIT	4000K MIN 9800 LUMENS	INTEGRAL B/LEVEL DIMMING	120-277V 93W	MCGRAW GAIN-SA3A-740-U-74FT-XX-AHD245-SPB2 ACUTY DSX0 LED T5W BEACON
P1C	25"X23" 5" SQ	POLE MOUNTED 17' POLE REFER TO PLANS FOR BASE DETAIL	DIE CAST ALUMINUM 6" SQ ALUM POLE, 188" WALL THICK, DARK BRONZE	DUAL HEAD LED SITE AREA LIGHT TYPE 5 DISTRIBUTION WITH SQUARE WIDE THROW, MOTION SENSOR, B-LEVEL DIM TO 30%, FUSE KIT	4000K MIN 14000 LUMENS	INTEGRAL B/LEVEL DIMMING	120-277V 186W	MCGRAW GAIN-SA3A-740-U-SWQ-XX-AHD245-SPB2 ACUTY DSX0 LED T5W BEACON
P2	26" DIA 33" DEEP	POLE MOUNTED 12' POLE, SPIDER ARM MOUNT	DIE CAST ALUMINUM 4" SQ ALUM POLE, 188" WALL THICK, DARK BRONZE	SITE AREA LIGHT ASYMMETRIC DISTRIBUTION, INTEGRAL MOTION SENSOR, B-LEVEL DIM, FUSE KIT	4000K MIN 3600 LUMENS	INTEGRAL B/LEVEL DIMMING	120-277V 48W	INVIEW LSX-VA-2-740-U-ASC-S-FMS-L20 ACUTY RADEAN FT KIM
P3	19.5" DIA 19.5" DIA	POLE MOUNTED 19.5" POLE REFER TO PLANS FOR BASE DETAIL	DIE CAST ALUMINUM 6" SQ ALUM POLE, 188" WALL THICK, DARK BRONZE	AREA LIGHT 3 LIGHT CLUSTER ON ROUND STRAIGHT ALUMINUM POLE, COORDINATE AIMING WITH MANUFACTURER, FUSE KIT	4000K 4400 LUMENS	INTEGRAL NON DIMMING	120-277V 78W	LIGMAN (1)JUA-2001-W-8040 (2) UZA-2001-M-8040 WE-EF FLC230LED LUMENPULS
R1A	3.5" W X 4" 3.75" DEEP	RECESSED/ DRYWALL	EXTRUDED ALUMINUM HOUSING WITH MICROFILM ACRYLIC LENS	RECESSED LINEAR SLOT ASYMMETRIC FLUSH LENS	4000K 1000 LUFT	INTEGRAL 0-10V DIMMING	120-277V 53W/4FT	FOCAL POINT F5M4L-FF-1000LF-40K-1C-UNV-LD1-TF-4 AXIS BRRLD FINELINE
R1B	5" W X 4" 4.1" DEEP	RECESSED/ DRYWALL	EXTRUDED ALUMINUM HOUSING WITH MICROFILM ACRYLIC LENS	RECESSED LINEAR SLOT FROSTED ACRYLIC LENS, BATWING DISTRIBUTION	4000K 1000LUFT	INTEGRAL 0-10V DIMMING	120-277V 37W/4FT	FOCAL POINT F5M4L-BW-1000LF-40K-1C-UNV-LD1-TF-WH-4 AXIS BRRLD FINELINE
R2AG-4	5" W X 4" 4.1" DEEP	RECESSED GRID	EXTRUDED ALUMINUM HOUSING WITH MICROFILM ACRYLIC LENS	RECESSED LINEAR SLOT FROSTED ACRYLIC LENS, BATWING DISTRIBUTION	4000K 1000LUFT	INTEGRAL 0-10V DIMMING	120-277V 37W/4FT	FOCAL POINT F5M4L-BW-1000LF-40K-1C-UNV-LD1-G1-WH-4 AXIS BRRLD FINELINE
R2AH-16	5" W X 16" 4.1" DEEP	RECESSED WOOD	EXTRUDED ALUMINUM HOUSING WITH MICROFILM ACRYLIC LENS	RECESSED LINEAR SLOT FROSTED ACRYLIC LENS, BATWING DISTRIBUTION	4000K 1000LUFT	INTEGRAL 0-10V DIMMING	120-277V 148W	FOCAL POINT F5M4L-BW-1000LF-40K-1C-UNV-LD1-TF-WH-16 AXIS BRRLD FINELINE
R2AH-20	5" W X 20" 4.1" DEEP	RECESSED WOOD	EXTRUDED ALUMINUM HOUSING WITH MICROFILM ACRYLIC LENS	RECESSED LINEAR SLOT FROSTED ACRYLIC LENS, BATWING DISTRIBUTION	4000K 1000LUFT	INTEGRAL 0-10V DIMMING	120-277V 185W	FOCAL POINT F5M4L-BW-1000LF-40K-1C-UNV-LD1-TF-WH-20 AXIS BRRLD FINELINE
R2AH-24	5" W X 24" 4.1" DEEP	RECESSED WOOD	EXTRUDED ALUMINUM HOUSING WITH MICROFILM ACRYLIC LENS	RECESSED LINEAR SLOT FROSTED ACRYLIC LENS, BATWING DISTRIBUTION	4000K 1000LUFT	INTEGRAL 0-10V DIMMING	120-277V 185W	FOCAL POINT F5M4L-BW-1000LF-40K-1C-UNV-LD1-TF-WH-24 AXIS BRRLD FINELINE
R2B-4	5" W X 4" 4.1" DEEP	RECESSED GRID	EXTRUDED ALUMINUM HOUSING WITH MICROFILM ACRYLIC LENS	RECESSED LINEAR SLOT FROSTED ACRYLIC LENS, BATWING DISTRIBUTION	4000K 625LUFT	INTEGRAL 0-10V DIMMING	120-277V 22W	FOCAL POINT F5M4L-BW-625LF-40K-1C-UNV-LD1-G1-WH-4 AXIS BRRLD FINELINE
R2B-12	5" W X 12" 4.1" DEEP	RECESSED GRID	EXTRUDED ALUMINUM HOUSING WITH MICROFILM ACRYLIC LENS	RECESSED LINEAR SLOT FROSTED ACRYLIC LENS, BATWING DISTRIBUTION	4000K 625LUFT	INTEGRAL 0-10V DIMMING	120-277V 66W	FOCAL POINT F5M4L-BW-625LF-40K-1C-UNV-LD1-G1-WH-12 AXIS BRRLD FINELINE
R2B-16	5" W X 16" 4.1" DEEP	RECESSED GRID	EXTRUDED ALUMINUM HOUSING WITH MICROFILM ACRYLIC LENS	RECESSED LINEAR SLOT FROSTED ACRYLIC LENS, BATWING DISTRIBUTION	4000K 625LUFT	INTEGRAL 0-10V DIMMING	120-277V 88W	FOCAL POINT F5M4L-BW-625LF-40K-1C-UNV-LD1-G1-WH-16 AXIS BRRLD FINELINE
R2C-4	5" W X 4" 4.1" DEEP	RECESSED GRID	EXTRUDED ALUMINUM HOUSING WITH MICROFILM ACRYLIC LENS	RECESSED LINEAR SLOT FROSTED ACRYLIC LENS, BATWING DISTRIBUTION	4000K 275LUFT	INTEGRAL 0-10V DIMMING	120-277V 20W	FOCAL POINT F5M4L-BW-275LF-40K-1C-UNV-LD1-G1-WH-4 AXIS BRRLD FINELINE
R2C-8	5" W X 8" 4.1" DEEP	RECESSED GRID	EXTRUDED ALUMINUM HOUSING WITH MICROFILM ACRYLIC LENS	RECESSED LINEAR SLOT FROSTED ACRYLIC LENS, BATWING DISTRIBUTION	4000K 275LUFT	INTEGRAL 0-10V DIMMING	120-277V 20W	FOCAL POINT F5M4L-BW-275LF-40K-1C-UNV-LD1-G1-WH-8 AXIS BRRLD FINELINE
R2CH-4	5" W X 4" 4.1" DEEP	RECESSED WOOD	EXTRUDED ALUMINUM HOUSING WITH MICROFILM ACRYLIC LENS	RECESSED LINEAR SLOT FROSTED ACRYLIC LENS, BATWING DISTRIBUTION	4000K 275LUFT	INTEGRAL 0-10V DIMMING	120-277V 10W/4FT	FOCAL POINT F5M4L-BW-275LF-40K-1C-UNV-LD1-TF-WH-4 AXIS BRRLD FINELINE
R2CH-8	5" W X 8" 4.1" DEEP	RECESSED WOOD	EXTRUDED ALUMINUM HOUSING WITH MICROFILM ACRYLIC LENS	RECESSED LINEAR SLOT FROSTED ACRYLIC LENS, BATWING DISTRIBUTION	4000K 275LUFT	INTEGRAL 0-10V DIMMING	120-277V 20W	FOCAL POINT F5M4L-BW-275LF-40K-1C-UNV-LD1-TF-WH-8 AXIS BRRLD FINELINE
R2CH-12	5" W X 12" 4.1" DEEP	RECESSED WOOD	EXTRUDED ALUMINUM HOUSING WITH MICROFILM ACRYLIC LENS	RECESSED LINEAR SLOT FROSTED ACRYLIC LENS, BATWING DISTRIBUTION	4000K 275LUFT	INTEGRAL 0-10V DIMMING	120-277V 30W	FOCAL POINT F5M4L-BW-275LF-40K-1C-UNV-LD1-TF-WH-12 AXIS BRRLD FINELINE
R2CH-16	5" W X 16" 4.1" DEEP	RECESSED WOOD	EXTRUDED ALUMINUM HOUSING WITH MICROFILM ACRYLIC LENS	RECESSED LINEAR SLOT FROSTED ACRYLIC LENS, BATWING DISTRIBUTION	4000K 275LUFT	INTEGRAL 0-10V DIMMING	120-277V 40W	FOCAL POINT F5M4L-BW-275LF-40K-1C-UNV-LD1-TF-WH-16 AXIS BRRLD FINELINE
R2CH-20	5" W X 20" 4.1" DEEP	RECESSED WOOD	EXTRUDED ALUMINUM HOUSING WITH MICROFILM ACRYLIC LENS	RECESSED LINEAR SLOT FROSTED ACRYLIC LENS, BATWING DISTRIBUTION	4000K 275LUFT	INTEGRAL 0-10V DIMMING	120-277V 50W	FOCAL POINT F5M4L-BW-275LF-40K-1C-UNV-LD1-TF-WH-20 AXIS BRRLD FINELINE
R3-8	6" X 8" 3.5" DEEP	RECESSED	ALUMINUM EXTRUSION, WHITE FINISH	LED PERIMETER LINEAR CLEAR LENS, INDIRECT, COORDINATE MOUNTING WITH ARCHITECT	4000K 102 LUFT	INTEGRAL 0-10V DIMMING	120-277V 46W	ALUZ LIGHTING A2 SERIES DAY-O-LITE PNRL LITECONTROL
R4	6" DIA 7.5" DEEP	RECESSED	GALVANIZED STEEL HOUSING, SPECULAR FINISH	DOWNLIGHT CLEAR REFLECTOR AND WHITE PAINTED SELF FLANGE, 45 DEGREE CUTOFF	4000K 1500 LUMENS	INTEGRAL 0-10V DIMMING	120-277V 14.7W	GOTHAM EVO6-40/15-AR-MWD-LS-MVOLT-GZ10-TRW PORTFOLIO PRESCLUTE
R4A	6" DIA 7.5" DEEP	RECESSED	STEEL HOUSING	WALL WASH DOWNLIGHT CLEAR REFLECTOR AND WHITE PAINTED SELF FLANGE, 45 DEGREE CUTOFF	4000K 1500 LUMENS	INTEGRAL 0-10V DIMMING	120-277V 14.7W	GOTHAM EVO6DWW-40/15-AR-LSS-MVOLT-GZ10-TRW PORTFOLIO PRESCLUTE
R4B	6" DIA 7.5" DEEP	RECESSED	STEEL HOUSING	DOUBLE WALL WASH DOWNLIGHT CLEAR REFLECTOR AND WHITE PAINTED SELF FLANGE, 45 DEGREE CUTOFF	4000K 1500 LUMENS	INTEGRAL 0-10V DIMMING	120-277V 14.7W	GOTHAM EVO6DWW-40/15-AR-LSS-MVOLT-GZ10-TRW PORTFOLIO PRESCLUTE
R4C	6" DIA 7.5" DEEP	RECESSED	STEEL HOUSING	CORNER WALL WASH DOWNLIGHT CLEAR REFLECTOR AND WHITE PAINTED SELF FLANGE, 45 DEGREE CUTOFF	4000K 1500 LUMENS	INTEGRAL 0-10V DIMMING	120-277V 14.7W	GOTHAM EVO6CWW-40/15-AR-LSS-MVOLT-GZ10-TRW PORTFOLIO PRESCLUTE

LUMINAIRE SCHEDULE 2

TYPE	DIMENSIONS	MOUNTING	CONSTRUCTION AND FINISH	DESCRIPTION AND OPTIONS	LAMPS/LUMENS	DRIVER(S)	VOLTAGE/LOAD	APPROVED MANUFACTURER(S)
R5	2" X 4" 2" DEEP	RECESSED GRID	NARROW ALUMINUM BEZEL, GAUGE STEEL, ACRYLIC SHIELD	LED FLAT PANEL WHITE FROST LENS, IMPACT RESISTANT, DAMP LOCATION LISTED	4000K 4685 LUMENS	INTEGRAL 0-10V DIMMING	120-277V 41W	METALUX 24FP4740C ACUTY CPX COLUMBIA
R6	TBD	RECESSED	BLACK MEGOLON 5530 JACKET	FIBER OPTICS	TBD	DIMMABLE	120-277V	MESSELEX GL S530 VLT CORP BL LIGHTING
R7	3.3" DIA 4.5" DEEP	RECESSED	ALUMINUM SHALLOW HOUSING, MATTE POWDER COATED FINISH	LED DOWNLIGHT	4000K 2200 LUMENS	INTEGRAL 0-10V DIMMING	120-277V 22W	3G-DL33RF70-22H90-40K-400-UNV-DIM-WT-WT USA REVISED ALPHA BETA
R8	3" X LENGTH AS SHOWN	RECESSED CONCRETE	EXTRUDED ALUMINUM HOUSING, MATTE POWDER COATED FINISH	RECESSED LINEAR SLOT CONTINUOUS FROSTED ACRYLIC LENS, ASYMMETRIC DISTRIBUTION	4000K 1000LUFT	INTEGRAL 0-10V DIMMING	120-277V 88W	LUMENWERX V3SELRPA2-0-WETL-ASDD-SW-80-1000-40-XX-X-UNV-01 AXIS
S1A-4	4" W X 4" L 4.5" DEEP	SUSPENDED/ CABLE	ALUMINUM HOUSING, WHITE FINISH	SUSPENDED DIRECT/INDIRECT LINEAR BATWING OPTIC UPLIGHT DISTRIBUTION/FLUSH DOWN LENS	4000K 1000LUFT DN 875LUFT UP	INTEGRAL 0-10V DIMMING	120-277V 37W	FOCAL POINT SEEM 4 F5M4S-BW-BW-FL-1000DN-875UP-40K-1C-UNV-LD1-XXX-X-4' AXIS 184DILED FINELINE
S1A-8	4" W X 8" L 4.5" DEEP	SUSPENDED/ CABLE	ALUMINUM HOUSING, WHITE FINISH	SUSPENDED DIRECT/INDIRECT LINEAR BATWING OPTIC UPLIGHT DISTRIBUTION/FLUSH DOWN LENS	4000K 1000LUFT DN 875LUFT UP	INTEGRAL 0-10V DIMMING	120-277V 74W	FOCAL POINT SEEM 4 F5M4S-BW-BW-FL-1000DN-875UP-40K-1C-UNV-LD1-XXX-X-8' AXIS 184DILED FINELINE
S1A-16	4" W X 16" L 4.5" DEEP	SUSPENDED/ CABLE	ALUMINUM HOUSING, WHITE FINISH	SUSPENDED DIRECT/INDIRECT LINEAR BATWING OPTIC UPLIGHT DISTRIBUTION/FLUSH DOWN LENS	4000K 1000LUFT DN 875LUFT UP	INTEGRAL 0-10V DIMMING	120-277V 148W	FOCAL POINT SEEM 4 F5M4S-BW-BW-FL-1000DN-875UP-40K-1C-UNV-LD1-XXX-X-16' AXIS 184DILED FINELINE
S1B-4	4" W X 4" L 4.5" DEEP	SUSPENDED/ CABLE	ALUMINUM HOUSING, WHITE FINISH	SUSPENDED DIRECT LINEAR	4000K 1000LUFT	INTEGRAL 0-10V DIMMING	120-277V 32W/4FT	FOCAL POINT SEEM 4 F5M4S-BW-1000LF-40K-1C-UNV-LD1-XXX-X-4' AXIS BRRLD FINELINE
S1B-8	4" W X 8" L 4.5" DEEP	SUSPENDED/ CABLE	ALUMINUM HOUSING, WHITE FINISH	SUSPENDED DIRECT LINEAR	4000K 1000LUFT	INTEGRAL 0-10V DIMMING	120-277V 64W	FOCAL POINT SEEM 4 F5M4S-BW-1000LF-40K-1C-UNV-LD1-XXX-X-8' AXIS BRRLD FINELINE
S1B-12	4" W X 12" L 4.5" DEEP	SUSPENDED/ CABLE	ALUMINUM HOUSING, WHITE FINISH	SUSPENDED DIRECT LINEAR	4000K 1000LUFT	INTEGRAL 0-10V DIMMING	120-277V 96W	FOCAL POINT SEEM 4 F5M4S-BW-1000LF-40K-1C-UNV-LD1-XXX-X-12' AXIS BRRLD FINELINE
S1B-12A	4" W X 12" L 4.5" DEEP	SUSPENDED/ CABLE	ALUMINUM HOUSING, WHITE FINISH	SUSPENDED DIRECT LINEAR 2 DIMMING ZONES	4000K 1000LUFT	INTEGRAL 0-10V DIMMING	120-277V 96W	FOCAL POINT SEEM 4 F5M4S-BW-1000LF-40K-2C2Z-UNV-LD1-XX-1DC-X-12' AXIS BRRLD FINELINE
S1B-16	4" W X 16" L 4.5" DEEP	SUSPENDED/ CABLE	ALUMINUM HOUSING, WHITE FINISH	SUSPENDED DIRECT LINEAR 2 DIMMING ZONES	4000K 1000LUFT	INTEGRAL 0-10V DIMMING	120-277V 128W	FOCAL POINT SEEM 4 F5M4S-BW-1000LF-40K-2C2Z-UNV-LD1-XX-1DC-X-16' AXIS BRRLD FINELINE
S1B-20	4" W X 20" L 4.5" DEEP	SUSPENDED/ CABLE	ALUMINUM HOUSING, WHITE FINISH	SUSPENDED DIRECT LINEAR 2 DIMMING ZONES	4000K 1000LUFT	INTEGRAL 0-10V DIMMING	120-277V 160W	FOCAL POINT SEEM 4 F5M4S-BW-1000LF-40K-2C2Z-UNV-LD1-XX-1DC-X-20' AXIS BRRLD FINELINE
S1B-20A	4" W X 20" L 4.5" DEEP	SUSPENDED/ CABLE	ALUMINUM HOUSING, WHITE FINISH	SUSPENDED DIRECT LINEAR 2 DIMMING ZONES	4000K 1000LUFT	INTEGRAL 0-10V DIMMING	120-277V 160W	FOCAL POINT SEEM 4 F5M4S-BW-1000LF-40K-2C2Z-UNV-LD1-XX-1DC-X-20' AXIS BRRLD FINELINE
S1B-28	4" W X 28" L 4.5" DEEP	SUSPENDED/ CABLE	ALUMINUM HOUSING, WHITE FINISH	SUSPENDED DIRECT LINEAR	4000K 1000LUFT	INTEGRAL 0-10V DIMMING	120-277V 224W	FOCAL POINT SEEM 4 F5M4S-BW-1000LF-40K-1C-UNV-LD1-XXX-X-28' AXIS BRRLD FINELINE
S1B-32	4" W X 32" L 4.5" DEEP	SUSPENDED/ CABLE	ALUMINUM HOUSING, WHITE FINISH	SUSPENDED DIRECT LINEAR	4000K 1000LUFT	INTEGRAL 0-10V DIMMING	120-277V 256W	FOCAL POINT SEEM 4 F5M4S-BW-1000LF-40K-1C-UNV-LD1-XXX-X-32' AXIS BRRLD FINELINE
S1B-36	4" W X 36" L 4.5" DEEP	SUSPENDED/ CABLE	ALUMINUM HOUSING, WHITE FINISH	SUSPENDED DIRECT LINEAR	4000K 1000LUFT	INTEGRAL 0-10V DIMMING	120-277V 288W	FOCAL POINT SEEM 4 F5M4S-BW-1000LF-40K-1C-UNV-LD1-XXX-X-36' AXIS BRRLD FINELINE
S2A	47" DIA 14" HIGH	SUSPENDED	FINS AND HUBS MADE OF PET FELT RECYCLED CONTENT	ACOUSTIC PENDANT FROSTED ACRYLIC DIFFUSER TUBE, WIDE FLOOD, FIN COLOR TBD BY ARCHITECT, CLUSTER OF FIVE	4000K 2100 LUMENS	CANOPY 0-10V DIMMING	120-277V 125W	LIGHTART ECHO ACC-SHP-ECHO-E478-X-X-CG-840CK-2000LM-WFL-PCE-LV01-STD-XX-XX OCL KWYET ARANCIA
S2B	47" DIA 14" HIGH	SUSPENDED	FINS AND HUBS MADE OF PET FELT RECYCLED CONTENT	ACOUSTIC PENDANT FROSTED ACRYLIC DIFFUSER TUBE, WIDE FLOOD, FIN COLOR TBD BY ARCHITECT, CLUSTER OF THREE	4000K 1000 LUMENS	CANOPY 0-10V DIMMING	120-277V 75W	LIGHTART ECHO ACC-SHP-ECHO-E478-X-X-CG-840CK-2000LM-WFL-PCE-LV01-STD-XX-XX OCL KWYET ARANCIA
S2B.2	47" DIA 14" HIGH	SUSPENDED	FINS AND HUBS MADE OF PET FELT RECYCLED CONTENT	ACOUSTIC PENDANT FROSTED ACRYLIC DIFFUSER TUBE, WIDE FLOOD, FIN COLOR TBD BY ARCHITECT, CLUSTER OF THREE	4000K 1000 LUMENS	CANOPY 0-10V DIMMING	120-277V 75W	LIGHTART ECHO ACC-SHP-ECHO-E478-X-X-CG-840CK-2000LM-WFL-PCE-LV01-STD-XX-XX OCL KWYET ARANCIA
S3	6" DIA 5.5" HIGH	SUSPENDED/CABLE	MARINE GRADE 6060 ALUMINUM, DIE CAST AND EXTRUDED	MONOPOINT CYLINDER DOWNLIGHT MEDIUM DISTRIBUTION, FROSTED LENS	4000K 2200 LUMENS	INTEGRAL 0-10V DIMMING	120-277V 39W	LIGMAN LJE-9611-39W-M-W40-XX-120277V-DIM-F WE-EF DAS120 WAC
S4	3" W X 4" 3.9" DEEP	SURFACE/ SUSPENDED	COLD ROLLED STEEL HOUSING, BAKED WHITE ENAMEL	INDUSTRIAL STRIP LIGHT FROSTED LENS	4000K 4800 LUMENS	INTEGRAL 0-10V DIMMING	120-277V 41W	METALUX 4SNLED-LS47SL-LW-L-840-CD1-UJ COLUMBIA
S6-4	97.38" W X 4" L 15.63" DEEP	SUSPENDED/ AIRCRAFT	ALUMINUM FRAME, POWDER COAT FINISH	SUSPENDED ACCOUSTICAL LED LINEAR ACCOUSTICAL COLOR TBD BY ARCHITECT	4000K 1050LUFT	INTEGRAL 0-10V DIMMING	120-277V 72W/4FT	STATIC ACC-STAT-BEAM-96L-16H-XX-XX-CRW-8FT-STD-D-840CK-DHO-P01-120V FOCAL POINT BARTICO
S6-8	97.38" W X 8" L 15.63" DEEP	SUSPENDED/ AIRCRAFT	ALUMINUM FRAME, POWDER COAT FINISH	SUSPENDED ACCOUSTICAL LED LINEAR ACCOUSTICAL COLOR TBD BY ARCHITECT	4000K 1050LUFT	INTEGRAL 0-10V DIMMING	120-277V 144W	STATIC ACC-STAT-BEAM-96L-16H-XX-XX-CRW-8FT-STD-D-840CK-DHO-P01-120V FOCAL POINT BARTICO
S7A	18" DIA	SUSPENDED AIRCRAFT	PLATED STEEL AND WHITE OPAL GLASS, FINISH TYPE BY ARCH	LED PENDANT	3000K 1796 LUMENS	INTEGRAL NON DIMMING	120-277V 22W	SPI SPHERES AIP12042-L22W-120-277-4000K-AC-XX BASELITE SPECTRUM
S7B	24" DIA	SUSPENDED AIRCRAFT	ALUMINUM HOUSING, WHITE MATTE ACRYLIC DIFFUSER	LED PENDANT	3000K 2375 LUMENS	INTEGRAL NON DIMMING	120-277V 29W	SPI SPHERES AIP12043-L29W-120-277-4000K-AC-XX BASELITE SPECTRUM
S7C	30" DIA	SUSPENDED AIRCRAFT	PLATED STEEL AND WHITE OPAL GLASS, FINISH TYPE BY ARCH	LED PENDANT	3000K 2974 LUMENS	INTEGRAL NON DIMMING	120-277V 36W	SPI SPHERES AIP12044-L36W-120-277-4000K-AC-XX BASELITE SPECTRUM
S8	47" DIA	SUSPENDED AIRCRAFT	STEEL AND LAPRENE, NEBULITE	DECORATIVE PENDANT RESIN GRAY FINISH, UL LISTED	2900K HALOGENE (NOT INCLUDED) 1490 LUMENS	N/A ELV DIMMING	120V (2) 72W	MEZZA LUNA INEP359065 (NO EXCEPTION)
S9	47" DIA	SUSPENDED AIRCRAFT	STEEL HOUSING, LAPRENE, NEBULITE	DECORATIVE LUNA PENDANT SOFTLY LUMINESCENT QUALITY OF MOONS SURFACE	2900K HALOGENE (NOT INCLUDED) 1050 LUMENS	N/A ELV DIMMING	120V 53W	YLIGHTING IN-ES ART DESIGN INEP369364 (NO EXCEPTION)
W1	1" X 77" 6" DEEP	SURFACE	EXTRUDED ALUMINUM HOUSING	LED LINEAR ASYMMETRIC	4000K 99 LUFT	REMOTE 0-10V DIMMING	120-277V 1.1W/FT	IQ LINE 75 0.03-1W-835-90-ID-STD-UNV-XX-WM-X-77 INSIGHT PCM ACCCLAIM
W2	2.8" W X 4" L 2.72" DEEP	SURFACE	STEEL HOUSING POLY LENS	STAIR LIGHT INTEGRAL OCCUPANCY SENSOR DIM TO 50% WHEN UNOCCUPIED INTEGRAL BATTERY BACKUP	4000K 5000 LUMENS	INTEGRAL 0-10V DIMMING	120-277V 16W	FAIL SAFE HVSL2-4-LD4-STD-40-UNV-0-ED101-0

LIGHTING ROOM CONTROLS

ROOM NO.	DESCRIPTION	TARGET-FOOTCANDLE	TARGET HEIGHT	AVGMIN	CONTROL SOURCE	CONTROL TYPE	CONTROL ZONE	REMARKS
100	VESTIBULE	15	0"	2:1	BAS	TC	ZONE 1-1	TIME CONTROL FOR "ON" DURING OPERATION HOURS
101	LOBBY/ENTRY HALL	50	30"	2:1	BAS	TC/LS	ZONE 1-1a	TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE
102 & 103	MEN & WOMEN	15	30"	2:1	LOCAL	OS-DT	LOCAL	AUTO ON/AUTO OFF
104	JANITOR	10	0"	3:1	LOCAL	OS	LOCAL	MANUAL ON/AUTO OFF
105	CATERING	50	36"	3:1	LOCAL	OS/DM	LOCAL	AUTO 50% ON/AUTO OFF
106	COMMUNITY ALCOVE	30	30"	2:1	BAS	TC/LS	ZONE 1-1b	TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE
107	BUSINESS CENTER	30	30"	2:1	BAS	TC/LS	ZONE 1-1b	TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE
108	RESERVES	30	30"	2:1	BAS	TC/LS/DS	ZONE 1-1b,c	b:TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE c:TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE/DAYLIGHT HARVESTING (DAYLIGHT MIN 20% TRIM)
109	LOUNGE	30	30"	2:1	BAS	TC/LS/DS	ZONE 1-1b,c	b:TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE c:TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE/DAYLIGHT HARVESTING (DAYLIGHT MIN 20% TRIM)
110	MEETING ROOM	30	30"	3:1	BAS	OS/DM/PS/LS	ZONE 1-2a	COMMON CONTROLS WHEN ROOMS ARE OPENED TO EACH OTHER/AUTO 50% ON/AUTO OFF/TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE
111	MEETING ROOM	30	30"	3:1	BAS	OS/DM/PS/LS	ZONE 1-2b	COMMON CONTROLS WHEN ROOMS ARE OPENED TO EACH OTHER/AUTO 50% ON/AUTO OFF/TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE
112	MEETING ROOM	30	30"	3:1	BAS	OS/DM/PS/LS	ZONE 1-2c	COMMON CONTROLS WHEN ROOMS ARE OPENED TO EACH OTHER/AUTO 50% ON/AUTO OFF/TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE
113	STORAGE	10	0"	3:1	LOCAL	OS	LOCAL	MANUAL ON/AUTO OFF
114	STAIRS 2	5	0"	2:1	LOCAL	OS-DT/DM	LOCAL	DIM TO 30% WHEN OCCUPIED
115	RECEIVING	30	30"	2:1	BAS	TC/LS	ZONE 1-3	TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE
116	WATER ROOM	20	36"	3:1	LOCAL	LS	LOCAL	MANUAL ON/MANUAL OFF
117	BOOK DROP	15	30"	2:1	LOCAL	TS	LOCAL	MANUAL ON/AUTO OFF
118	TBD							
119	ELECTRIC ROOM	20	36"	3:1	LOCAL	LS	LOCAL	MANUAL ON/MANUAL OFF
120								
121	PROCESSING	30	30"	2:1	BAS	TC/LS	ZONE 1-3	TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE
122	LOCKERS	30	0"	2:1	BAS	TC/LS	ZONE 1-3	TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE
123	B.O.H. HALL 123	10	0"	2:1	BAS	TC/LS	ZONE 1-3	TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE
124	WC - STAFF RR	15	30"	2:1	LOCAL	OS-DT	LOCAL	AUTO ON/AUTO OFF
125	IT	50	36"	3:1	LOCAL	LS	LOCAL	MANUAL ON/AUTO OFF
126	WC - STAFF RR	15	30"	2:1	LOCAL	OS-DT	LOCAL	AUTO ON/AUTO OFF
127	ELEVATOR	20	0"	2:1	LOCAL	LS	LOCAL	IN ELEVATOR PIT
128	RETURNS	30	30"	3:1	BAS	TC/LS	ZONE 1-3	AUTO 50% ON/AUTO OFF
129	ELEVATOR	20	0"	2:1	LOCAL	LS	LOCAL	IN ELEVATOR PIT
130	PM STORAGE	10	0"	3:1	LOCAL	OS	LOCAL	MANUAL ON/AUTO OFF
131	STAFF LOUNGE	15	30"	3:1	LOCAL	OS/DM	LOCAL	AUTO 50% ON/AUTO OFF
132	MANAGER'S OFFICE	30	30"	3:1	LOCAL	OS/DM	LOCAL	AUTO 50% ON/AUTO OFF
133	STORAGE	10	0"	3:1	LOCAL	OS	LOCAL	MANUAL ON/AUTO OFF
134	KITCHEN	50	36"	3:1	LOCAL	OS/DM	LOCAL	AUTO 50% ON/AUTO OFF
135	STAFF 135	20	0"	3:1	LOCAL	OS/DM	LOCAL	LOCAL DIMMER FOR DIMMING DOWN TO 30%
136	PRIVACY	30	30"	3:1	LOCAL	OS/DM	LOCAL	AUTO 50% ON/AUTO OFF
137	STORAGE/OFFICE	30	30"	3:1	LOCAL	OS	LOCAL	MANUAL ON/AUTO OFF
138	PRIVACY	15	30"	2:1	LOCAL	OS/DM	LOCAL	AUTO 50% ON/AUTO OFF
139	FAMILY RR	15	30"	2:1	LOCAL	OS-DT	LOCAL	AUTO ON/AUTO OFF
140	PROGRAM SPACE	30	30"	3:1	BAS	TC/LS/DS	ZONE 1-4	TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE/DAYLIGHT HARVESTING (DAYLIGHT MIN 20% TRIM)
141	READ FOR K	50	0"	3:1	BAS	TC/LS/DS	ZONE 1-4.4a	TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE a:TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE/DAYLIGHT HARVESTING (DAYLIGHT MIN 20% TRIM)
142	YOUNG CHILDRENS	50	0"	3:1	BAS	TC/LS/DS	ZONE 1-4.4a	TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE a:TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE/DAYLIGHT HARVESTING (DAYLIGHT MIN 20% TRIM)
143	TWEENS	50	0"	3:1	BAS	TC/LS/DS	ZONE 1-4	TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE/DAYLIGHT HARVESTING (DAYLIGHT MIN 20% TRIM)
144	SCHOOL HELP	30	30"	3:1	BAS	TC/DM/DS	ZONE 1-5	TIME CONTROL WITH LOCAL DIMMER FOR DIMMING DOWN TO 30%/DAYLIGHT HARVESTING (DAYLIGHT MIN 20% TRIM)
144	SCHOOL HELP	30	30"	3:1	BAS	TC/DM/DS	ZONE 1-5a,b	a:TIME CONTROL WITH LOCAL DIMMER FOR DIMMING DOWN TO 30% b:TIME CONTROL WITH LOCAL DIMMER FOR DIMMING DOWN TO 30%/DAYLIGHT HARVESTING (DAYLIGHT MIN 20% TRIM)
145, 245	STAIRS 1	5	0"	2:1	LOCAL	OS-DT/DM	LOCAL	DIM TO 30% WHEN OCCUPIED
200.1, 200.2, 200.3	READING/STUDY AREA	50	30"	3:1	BAS	TC/LS	ZONE 2-1	TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE
201	PUBLIC PCS	30	30"	2:1	BAS	TC/LS	ZONE 2-2	TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE
202	STUDY ROOM	50	30"	3:1	LOCAL	OS-DT/DM	LOCAL	AUTO 50% ON/AUTO OFF
203	STUDY ROOM	50	30"	3:1	LOCAL	OS-DT/DM	LOCAL	AUTO 50% ON/AUTO OFF
204	STUDY ROOM	50	30"	3:1	LOCAL	OS-DT/DM	LOCAL	AUTO 50% ON/AUTO OFF
205	STUDY ROOM	50	30"	3:1	LOCAL	OS-DT/DM	LOCAL	AUTO 50% ON/AUTO OFF
206	STUDY ROOM	50	30"	3:1	LOCAL	OS-DT/DM	LOCAL	AUTO 50% ON/AUTO OFF
207	STAIRS 2	5	0"	2:1	LOCAL	OS-DT/DM	LOCAL	DIM TO 30% WHEN OCCUPIED
208	STORAGE	10	0"	3:1	LOCAL	OS	LOCAL	MANUAL ON/AUTO OFF
209	RESTROOM	15	30"	2:1	LOCAL	OS-DT	LOCAL	AUTO ON/AUTO OFF
210	RESTROOM	15	30"	2:1	LOCAL	OS-DT	LOCAL	AUTO ON/AUTO OFF
211	IT	50	36"	3:1	LOCAL	LS	LOCAL	MANUAL ON/AUTO OFF
212	JANITOR	10	0"	3:1	LOCAL	OS	LOCAL	MANUAL ON/MANUAL OFF
213	STORAGE	10	0"	3:1	LOCAL	OS	LOCAL	MANUAL ON/AUTO OFF
214	TEENS STORAGE	10	0"	3:1	LOCAL	OS	LOCAL	MANUAL ON/AUTO OFF
215	TEENS	50	30"	3:1	BAS	TC/LS/OS/DM/DS	ZONES 2-2	DAYLIGHT HARVESTING
216	COLLECTIONS	50	0"	3:1	BAS	TC/LS /DS	ZONES 2-3,3a	TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE a:TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE/DAYLIGHT HARVESTING (DAYLIGHT MIN 20% TRIM)
217	STUDY ROOM	50	30"	3:1	LOCAL	OS-DT/DM	LOCAL	AUTO 50% ON/AUTO OFF
218	STUDY ROOM	50	30"	3:1	LOCAL	OS-DT/DM	LOCAL	AUTO 50% ON/AUTO OFF
219	STUDY ROOM	50	30"	3:1	LOCAL	OS-DT/DM	LOCAL	AUTO 50% ON/AUTO OFF
220	STUDY ROOM	50	30"	3:1	LOCAL	OS-DT/DM	LOCAL	AUTO 50% ON/AUTO OFF
221	STUDY ROOM	50	30"	3:1	LOCAL	OS-DT/DM	LOCAL	AUTO 50% ON/AUTO OFF
222	STUDY ROOM	50	30"	3:1	LOCAL	OS-DT/DM	LOCAL	AUTO 50% ON/AUTO OFF
223	STUDY ROOM	50	30"	3:1	LOCAL	OS-DT/DM	LOCAL	AUTO 50% ON/AUTO OFF
224	STUDY ROOM	50	30"	3:1	LOCAL	OS-DT/DM	LOCAL	AUTO 50% ON/AUTO OFF
225	STUDY ROOM	50	30"	3:1	LOCAL	OS-DT/DM	LOCAL	AUTO 50% ON/AUTO OFF
226								
234	QUIET STUDY	50	30"	2:1	LOCAL	LS/OS/DM	LOCAL	AT ELEVATOR DOOR AND TOP OF ELEVATOR SHAFT
227	ELEVATOR	20	0"					
229	ELEVATOR	20	0"	2:1	LOCAL	LS	LOCAL	AT ELEVATOR DOOR AND TOP OF ELEVATOR SHAFT
114, 207	STAIRS 2	5	0"	2:1	LOCAL	OS-DT/DM	LOCAL	DIM TO 30% WHEN OCCUPIED
2ND FLR	ENTRY HALL	10	0"	2:1	BAS	TC/LS	ZONE 1-3	TIME CONTROL WITH ON/OFF SWITCH FOR AFTER HOURS OVERRIDE
EXTERIOR	ENTRANCE CANOPY	5	0"	2:1	BAS	TC	ZONES 4-1	ON FROM DUSK TIL DAWN
EXTERIOR	PARKING LOT	1.5	0"	3:1	BAS	TC/OC	ZONES 4-2	ON FROM DUSK TO DAWN/DIM TO 30% WHEN UN-OCCUPIED
EXTERIOR	PARKING LOT RECEPTACLES				BAS		ZONES 4-3	TIME CONTROL ON/OFF
EXTERIOR	GROUND LIGHTS				BAS	TC/OC	ZONES 4-4	ON FROM DUSK TO DAWN
EXTERIOR	CANOPY				BAS	TC/OC	ZONES 4-5	ON FROM DUSK TO DAWN

AFTER HOURS OVERRIDE - MAXIMUM OF 2HRS; FLASH LIGHTS 10 MINUTES PRIOR TO AUTO OFF.
TIME CLOCK CONTROLS - COORDINATE WITH CML FOR ON AND OFF TIMES FOR EACH "TC" ZONE

TC	Time Clock On/Off/Dim (Dusk to Dawn)
LS	Local Switch
OS	Occupancy Sensor (PIR)
OS-DT	Occupancy Sensor (Dual Tech)
DS	Photocell (Daylight Harvesting)
PC	Photocell (Lighting Relay Panel)
DM	Dimmer
PS	Partition Sensor
TS	Timer Switch

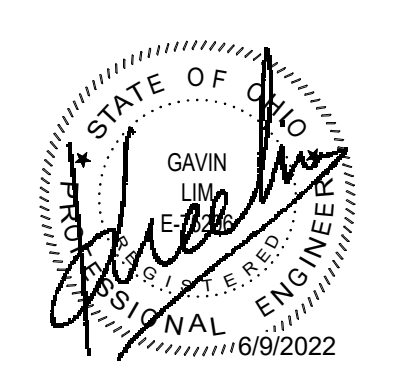
REVISION SCHEDULE		
#	DATE	REVISION DESCRIPTION
1	07.05.22	Addendum 01

PROJECT NAME :

CML REYNOLDSBURG
1402 BRICE ROAD
REYNOLDSBURG, OHIO 43068

100% CONSTRUCTION DOCUMENTS
ISSUED FOR BIDDING AND PERMITS

ISSUE DATE : 06/10/22



SCHEDULES - ELECTRICAL

E6.02

Branch Panel: L1

Location: ELECTRIC 119
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 100 A

Notes:

CKT	Wire Size	Circuit Description	Trip	Brkr Opt	A	B	C	Brkr Opt	Trip	Circuit Description	Wire Size	CKT	
1	12	LTG -115-117,121,123,128,131-134	20 A		1.39	0.10				20 A	RP1 - Electric 119	12	2
3	12	LTG - 125,135-139	20 A			0.73	0.63			20 A	LTG - SITE	10	4
5	12	LTG - 102,106,113,114,122A,130,126,124	20 A				0.94	0.00		20 A	RECEPTACLE POLE MTD CAMERA - SITE	10	6
7	6	LTG - SITE	20 A		0.92	0.54				20 A	LTG - 110,111,112	10	8
9	10	LTG - SITE/GROUND	20 A			0.00	0.14			20 A	LTG - 141,142	12	10
11	10	LTG - SITE/GROUND	20 A				0.12	0.66		20 A	LTG - 142	12	12
13	12	LTG - 106,107,108,109	20 A		1.28	2.04				20 A	LTG - 143	12	14
15	12	LTG ELEV 127,129	20 A			0.12	0.27			20 A	LTG - 143	12	16
17	12	LTG - PROGRAM 140	20 A				0.56	0.89		20 A	LTG - CANOPY	12	18
19	12	LTG - 144, 145	20 A		0.80	1.40				20 A	LTG - CANOPY	12	20
21	12	LTG - 101	20 A			0.62	1.40			20 A	LTG - CANOPY	12	22
23	12	LTG - BLDG MTD	20 A				0.09	1.40		20 A	LTG - CANOPY	12	24
25	8	MONUMENT SIGN	20 A		0.50	1.40				20 A	LTG - CANOPY	12	26
27	12	LTG - K SIGN	20 A			0.50	1.40			20 A	LTG - CANOPY	12	28
29	12	LTG - BOOKCASE	20 A				1.10	0.20		20 A	LTG - BOOKCASE	12	30
31	12	LTG - BOOKCASE	20 A		0.40	0.20				20 A	LTG - BOOKCASE	12	32
33	12	LTG - BOOKCASE	20 A			0.20	0.80			20 A	LTG - BOOKCASE	12	34
35		SPARE	20 A				0.00	0.20		20 A	LTG - BOOKCASE	12	36
37		SPARE	20 A		0.00	0.00				20 A	SPARE	38	
39		SPARE	20 A			0.00	0.00			20 A	SPARE	40	
41		SPARE	20 A				0.00	0.00		20 A	SPARE	42	
Total Load:					10.93 kVA	6.78 kVA	6.17 kVA						
Total Amps:					92 A	57 A	51 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	16936 VA	100.00%	16936 VA	
Lighting - Exterior	1556 VA	125.00%	1945 VA	
Other	570 VA	100.00%	570 VA	
Power	4240 VA	100.00%	4240 VA	
Receptacle	540 VA	100.00%	540 VA	
				Total Conn. Load: 23770 VA
				Total Est. Demand: 24142 VA
				Total Conn.: 66 A
				Total Est. Demand: 67 A

Branch Panel: L2

Location: STORAGE 213
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 100 A

Notes:

CKT	Wire Size	Circuit Description	Trip	Brkr Opt	A	B	C	Brkr Opt	Trip	Circuit Description	Wire Size	CKT	
1	12	LTG - 200, 1,216	20 A		1.30	1.50				20 A	LTG - 200, 1,216	12	2
3	12	LTG - 200, 1,234	20 A			0.41	0.40			20 A	LTG - 217,226	12	4
5	12	LTG - 215,235	20 A				0.64	0.77		20 A	LTG - 216	12	6
7	12	LTG - 202,214	20 A		0.94	0.59				20 A	LTG - 216	12	8
9	12	LTG - 216	20 A			1.15	1.07			20 A	LTG - 200,2	12	10
11	12	LTG - 216	20 A				1.15	0.12		20 A	LTG - ELEVATOR	12	12
13	12	LTG - 201,215	20 A		1.04	0.94				20 A	LTG - 2ND FLOOR ENTRY	12	14
15	12	LTG - ROOF	20 A			0.07	0.09			20 A	LTG - 2ND FLOOR ENTRY	12	16
17	12	LTG - 2ND FLOOR ENTRY	20 A				1.18	0.50		20 A	LTG - BOOKCASE	12	18
19		SPARE	20 A		0.00	0.50				20 A	LTG - BOOKCASE	12	20
21		SPARE	20 A			0.00	0.00			20 A	SPARE	22	
23		SPARE	20 A				0.00	0.00		20 A	SPARE	24	
25		SPARE	20 A		0.00	0.00				20 A	SPARE	26	
27		SPARE	20 A			0.00	0.00			20 A	SPARE	28	
29		SPARE	20 A				0.00	0.00		20 A	SPARE	30	
31		SPARE	20 A		0.00	0.00				20 A	SPARE	32	
33		SPARE	20 A			0.00	0.00			20 A	SPARE	34	
35		SPARE	20 A				0.00	0.00		20 A	SPARE	36	
37		SPARE	20 A		0.00	0.00				20 A	SPARE	38	
39		SPARE	20 A			0.00	0.00			20 A	SPARE	40	
41		SPARE	20 A				0.00	0.00		20 A	SPARE	42	
Total Load:					6.81 kVA	3.18 kVA	4.36 kVA						
Total Amps:					58 A	27 A	38 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	12964 VA	100.00%	12964 VA	
Power	1000 VA	100.00%	1000 VA	
Other	386 VA	100.00%	386 VA	
				Total Conn. Load: 14350 VA
				Total Est. Demand: 14350 VA
				Total Conn.: 40 A
				Total Est. Demand: 40 A

Branch Panel: EV

Location: ELECTRIC 119
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 225 A

Notes:

CKT	Wire Size	Circuit Description	Trip	Brkr Opt	A	B	C	Brkr Opt	Trip	Circuit Description	Wire Size	CKT	
1		FUTURE EV CHARGING	40 A		0.00	0.00				40 A	FUTURE EV CHARGING	4	
3		FUTURE EV CHARGING	40 A			0.00	0.00			40 A	FUTURE EV CHARGING	6	
5		FUTURE EV CHARGING	40 A		0.00	0.00				40 A	FUTURE EV CHARGING	8	
7		SPARE	40 A			0.00	0.00			40 A	SPARE	10	
9		SPARE	40 A				0.00	0.00		40 A	SPARE	12	
11		SPARE	40 A		0.00	0.00				40 A	SPARE	14	
13		SPARE	40 A			0.00	0.00			40 A	SPARE	16	
15		SPARE	40 A				0.00	0.00		40 A	SPARE	18	
17		SPARE	40 A					0.00	0.00	40 A	SPARE	20	
19		SPARE	40 A		0.00	0.00				40 A	SPARE	22	
21		SPARE	40 A			0.00	0.00			40 A	SPARE	24	
23		SPARE	40 A				0.00	0.00		40 A	SPARE	26	
25		SPARE	40 A		0.00	0.00				40 A	SPARE	28	
27		SPARE	40 A			0.00	0.00			40 A	SPARE	30	
29		SPARE	40 A				0.00	0.00		40 A	SPARE	32	
31		SPARE	40 A		0.00	0.00				40 A	SPARE	34	
33		SPARE	40 A			0.00	0.00			40 A	SPARE	36	
35		SPARE	40 A				0.00	0.00		40 A	SPARE	38	
37		SPARE	40 A		0.00	0.00				40 A	SPARE	40	
39		SPARE	40 A			0.00	0.00			40 A	SPARE	42	
41		SPARE	40 A				0.00	0.00		40 A	SPARE	44	
Total Load:					0.00 kVA	0.00 kVA	0.00 kVA						
Total Amps:					0 A	0 A	0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn.: 0 A
				Total Est. Demand: 0 A

Branch Panel: M1

Location: ELECTRIC 119
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MLO
Mains Rating: 225 A

Notes:

CKT	Wire Size	Circuit Description	Trip	Brkr Opt	A	B	C	Brkr Opt	Trip	Circuit Description	Wire Size	CKT			
1	12	BASEBOARD HEATING - 101	20 A		1.31	0.87				20 A	BASEBOARD HEATING - 101	12	2		
3	12	BASEBOARD HEATING - 101	20 A			1.31	0.87			20 A	BASEBOARD HEATING - 101	12	4		
5	10	BASEBOARD HEATING - 141-142	20 A		1.25	1.50		1.25	1.50	20 A	BASEBOARD HEATING - 140-141	10	6		
7	10	BASEBOARD HEATING - 143	20 A			1.25	1.25			20 A	BASEBOARD HEATING - 142	10	8		
9	10	BASEBOARD HEATING - 143	20 A				1.25	1.25		20 A	BASEBOARD HEATING - 142	10	10		
11	10	BASEBOARD HEATING - 143-144	20 A		1.25	0.04				15 A	FC-1 - VESTIBULE 100	12	14		
13	10	BASEBOARD HEATING - 143-144	20 A			1.25	0.04			15 A	FC-3, FC-8 RETURNS 128	12	16		
15	10	BASEBOARD HEATING - 143-144	20 A				1.25	0.04		15 A	FC-5, FC-6, FC-7 - MTG RM 110,111,112	12	18		
17	12	FC-2, FC-14, BS-2-1 - STAFF 135, STORAGE 137	15 A		0.75	0.52			0.75	0.52	15 A	FC-3, FC-8 RETURNS 128	12	20	
19		SPARE	15 A			0.44	0.77			0.44	0.77	15 A	FC-5, FC-6, FC-7 - MTG RM 110,111,112	12	22
21	12	FC-4, BS-1-1 - STORAGE 113	15 A			0.68	0.40			0.68	0.40	15 A	FC-10, FC-11, BS-1-2 - PROCESSING 121, STAFF LOUNGE 131, RECEIVING...	12	24
23	12	FC-9, FC-12, FC-13 - MANAGER 132, STOR 133, STAFF 135	15 A			0.68	0.40			0.67	0.71	15 A	FC-15, FC-16 - YOUNG CHILDRENS 142, TWEENS 143	12	26
25	12	FC-9, FC-12, FC-13 - MANAGER 132, STOR 133, STAFF 135	15 A			0.67	0.71			1.50	0.25	20 A	EUH-2 - STAIR 2 114	12	28
27	12	FC-9, FC-12, FC-13 - MANAGER 132, STOR 133, STAFF 135	15 A				1.50	0.25		1.50	0.25	20 A	EUH-2 - STAIR 2 114	12	30
29	12	FC-17, FC-18, BS-2-2 - SCHOOL HELP 144	15 A		0.67	0.71				0.25	0.25	20 A	EUH-4 - WATER ROOM 116	12	32
31	12	FC-17, FC-18, BS-2-2 - SCHOOL HELP 144	15 A			0.25	0.25			0.25	0.25	20 A	EUH-4 - WATER ROOM 116	12	34
33	12	EUH-1 - STAIR 1 145	20 A									20 A	SPARE	36	
35		SPARE	20 A									20 A	SPARE	38	
37		SPARE	20 A		0.25	0.25						20 A	SPARE	40	
39		SPARE	20 A			0.25	0.25					20 A	SPARE	42	
41		SPARE	20 A				0.00	0.00				20 A	SPARE	44	
Total Load:					10.45 kVA	10.51 kVA	10.85 kVA								
Total Amps:					87 A	88 A	91 A								

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	21870 VA			

Branch Panel: P1

Location: ELECTRIC 119
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 225 A

Notes:

CKT	Wire Size	Circuit Description	Trip	Brkr Opt	A	B	C	Brkr Opt	Trip	Circuit Description	Wire Size	CKT		
1	12	EWC - Lounge147	20 A	GFCI	0.36	0.72				20 A	Hand Dryer - Men 103, Women 102	12	2	
3	12	Hand Dryer - Men 103	20 A			1.00	1.00			20 A	Hand Dryer - Women 102	12	4	
5	12	Hand Dryer - Men 103	20 A					1.00	1.00	20 A	Hand Dryer - Women 102	12	6	
7	12	Microwave - Catering 105	20 A	GFCI	1.20	0.90				20 A	Recept. Jan. 104, Catering 105	12	8	
9	12	BAS Panels - Electric 119	20 A			1.00	0.40			20 A	Door hardware - Rms 115, 105, 109	12	10	
11	12	Recept. - Process 121, Rowing 115	20 A					1.26	1.00	40 A	EW11 - Janitor 104	10	12	
13	12	Recept. - AV Rack-Storage 113	20 A		0.36	0.00				20 A	RCP1 - Janitor 104	12	14	
15	12	Recept. - Processing 121	20 A			0.36	0.50			20 A	Recept. Storage 113, 122A	12	16	
17	12	Recept. - Exterior	20 A					0.90	0.36	20 A	Recept. - Processing 121	12	18	
19	12	Recept. - Processing 121	20 A		0.36	0.72				20 A	Elevator Cab lighting - Electric Rm. 119	12	20	
21	12	Recept. - Reception Desk 101	20 A				1.08	1.00		20 A	Elevator Cab lighting - Electric Rm. 119	12	22	
23	12	Recept. - Reception Desk 101	20 A					1.08	1.00	20 A	Elevator Cab lighting - Electric Rm. 119	12	24	
25	12	Recept. - Vestibule 100, Business 107	20 A		0.54	0.50				20 A	Book Security System - Vestibule 100	12	26	
27	12	Recept. - ELEC 119	20 A	LO			0.50	0.72		20 A	Recept. - Alcove 106, Lounge 109	12	28	
29	12	Auto Sliding Door - Vestibule 100	20 A					0.20	0.54	20 A	Recept. - Meeting Rm. 112	12	30	
31	12	Recept. - Meeting Rm. 112	20 A		0.54	0.50				20 A	Scheduler Tablet - Meeting Rm. 112	12	32	
33	12	Motorized Shade - Meeting Rm. 112	20 A			0.30	0.50			20 A	Scheduler Tablet - Meeting Rm. 111	12	34	
35	12	Recept. - Process 121, Rowing 115	20 A					0.64	1.20	20 A	Garage Door - Meeting Rm. 112	12	36	
37	12	Movable Partition - Meeting Rms 111, 112	20 A		0.64	0.30				20 A	Motorized Shade - Meeting Rm. 111	12	38	
39						0.64	0.64						40	
41	12	Recept. - Meeting Rm. 111	20 A						0.72	0.64	20 A	Movable Partition - Meeting Rms 110, 111	12	42
43	12	Garage Door - Meeting Rm. 111	20 A		1.20	0.64							44	
45	12	Recept. - Meeting Rm. 110, Lounge 109	20 A				0.72	0.50			20 A	Scheduler Tablet - Meeting Rm. 110	12	46
47	12	Recept. - Meeting Rm. 110, Exterior	20 A					0.54	0.54	20 A	Recept. - Business Center 107	12	48	
49	12	Floor boxes - 109	20 A		0.72	0.50				20 A	Scheduler Tablet - School Help 144	12	50	
51	12	Printer - Business Center 107	20 A			1.00	0.50			20 A	Scheduler Tablet - School Help 144	12	52	
53	12	Copier - Business Center 107	20 A					1.00	0.18	20 A	Copier - School Help 144	12	54	
55	12	Aquarium - Entry Hall 101	20 A		0.36	0.36				20 A	Changinr Chairs - School Help 144	12	56	
57	12	Recept. - School Help 144	20 A			0.36	0.54			20 A	Recept. - School Help 144	12	58	
59	12	Comp. Docking Station - School Help 144	20 A					0.36	0.72	20 A	Recept. - School Help 144, Exterior	12	60	
61	12	Comp. Docking Station - School Help 144	20 A		0.36	0.72				20 A	Recept. - Self-Checkout - Entry Hall 101	12	62	
63	12	Recept. - Young Children's 142	20 A			0.72	0.72			20 A	Recept. - Self-Checkout - Entry Hall 101	12	64	
65	12	Fire Sprinkler Bell - Exterior	20 A					0.50	1.20	20 A	Garage Door - Meeting Rm. 110	12	66	
67	12	Doorbell	20 A		0.10	0.00				20 A	SPARE	12	68	
69		SPARE	20 A				0.00	0.00		20 A	SPARE	12	70	
71		SPARE	20 A				0.00	0.00		20 A	SPARE	12	72	
73		SPARE	20 A		0.00	0.00				20 A	SPARE	12	74	
75		SPARE	20 A				0.00	0.00		20 A	SPARE	12	76	
77		SPARE	20 A				0.00	0.00		20 A	SPARE	12	78	
79		SPARE	20 A		0.00	0.00				20 A	SPARE	12	80	
81		SPARE	20 A				0.00	0.00		20 A	SPARE	12	82	
83		SPARE	20 A				0.00	0.00		20 A	SPARE	12	84	
					Total Load:	12.60 kVA	14.70 kVA	16.58 kVA						
					Total Amps:	105 A	125 A	141 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	7440 VA	106.45%	7920 VA	
Other	600 VA	100.00%	600 VA	Total Conn. Load: 42880 VA
Power	12200 VA	100.00%	12200 VA	Total Est. Demand: 37040 VA
Receptacle	22640 VA	72.00%	16320 VA	Total Conn.: 1110 A
				Total Est. Demand: 103 A

Branch Panel: P3

Location: ELECTRIC 119
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Wire Size	Circuit Description	Trip	Brkr Opt	A	B	C	Brkr Opt	Trip	Circuit Description	Wire Size	CKT		
1	12	RECEPT - IT 211	20 A		0.36	0.36				20 A	RECEPT - IT 211	12	2	
3	12	RECEPT - IT 211	20 A			0.36	0.36			20 A	RECEPT - IT 211	12	4	
5	12	RECEPT - IT 211	20 A				0.36	0.72		20 A	RECEPT - IT 211	12	6	
7	12	SPECIAL RECEPTACLE - IT 211	20 A		0.09	0.09				20 A	SPECIAL RECEPTACLE - IT 211	12	8	
9	12	SPECIAL RECEPTACLE - IT 211	20 A			0.09	0.09			20 A	SPECIAL RECEPTACLE - IT 211	12	10	
11	12	SPECIAL RECEPTACLE - IT 211	20 A		0.09	0.09				20 A	SPECIAL RECEPTACLE - IT 211	12	12	
13	12	SPECIAL RECEPTACLE - IT 211	20 A			0.09	0.09			20 A	SPECIAL RECEPTACLE - IT 211	12	14	
15	12	SPECIAL RECEPTACLE - IT 211	20 A				0.09	0.09		20 A	SPECIAL RECEPTACLE - IT 211	12	16	
17	12	RECEPT - IT 211	20 A		0.72	0.36				20 A	RECEPT - IT 211	12	18	
19	12	RECEPT - IT 211	20 A			0.36	0.36			20 A	RECEPT - IT 211	12	20	
21	12	RECEPT - IT 211	20 A				0.36	1.26		20 A	RECEPT - IT 211	12	22	
23	12	DOOR HARDWARE - IT 211	20 A					0.10	0.36	20 A	RECEPT - IT 211	12	24	
25	10	RECEPT - STUDY 224, 225, 226	20 A		1.08	0.36				20 A	PUBLIC PCS SOUTH TABLE	12	26	
27	12	RECEPT - STUDY 205, 206	20 A				0.72	0.36		20 A	PUBLIC PCS SOUTH TABLE	12	28	
29	12	RECEPT - STUDY 203, 204	20 A					0.54	0.36	20 A	PUBLIC PCS NORTH TABLE	12	30	
31	12	PUBLIC PCS NORTH TABLE	20 A		0.36	0.36				20 A	PUBLIC PCS WEST TABLE	12	32	
33	12	PUBLIC PCS WEST TABLE	20 A			0.36	0.36			20 A	PUBLIC PCS WEST TABLE	12	34	
35	12	PUBLIC PCS WEST TABLE	20 A				0.36	1.26		20 A	RECEPT - STUDY 217, 218, 219, 220	12	36	
37	12	SCHEDULER EAST ROOMS	20 A		0.50	1.20				20 A	COPIER/PRINTER - PUBLIC PCS 201	12	38	
39	12	SCHEDULER WEST ROOMS	20 A			0.50	1.20			20 A	COPIER/PRINTER - PUBLIC PCS 201	12	40	
41	12	COPIER/PRINTER - PUBLIC PCS 201	20 A					0.18	0.36	GFCI	20 A	EWIC - COLLECTIONS 216	12	42
43	12	DISPLAY MONITOR - TEEN 215	20 A		0.18	1.08				20 A	RECEPT - TEEN 215	12	44	
45	12	RECEPT - TEEN 215	20 A			0.72	0.18			20 A	COPIER/PRINTER - TEEN 215	12	46	
47	12	RECEPT - TEEN 215	20 A				0.72	1.08		20 A	RECEPT - TEEN 215	12	48	
49	12	RECEPT - EQUIPMENT 214	20 A		0.90	0.72				20 A	RECEPT - WC 209, 210	12	50	
51	12	RECEPT - STORAGE 213	20 A			0.90	0.72			20 A	RECEPT - TEEN STUDIO	12	52	
53	12	RECEPT - HVAC MAINTENANCE	20 A				1.26	0.50		20 A	SCHEDULER - SOUTH ROOMS	10	54	
55	10	RECEPT - STUDY 221, 222, 223	20 A		1.08	0.60				20 A	MOTORIZED SHADES - SOUTH	10	56	
57	10	RECEPT - QUIET STUDY 234	20 A			0.54	0.60			20 A	MOTORIZED SHADES - WEST	12	58	
59	12	RECEPT - JAN 212	20 A				0.18	1.00		20 A	BAS	12	60	
61	12	HAND DRYER - WC 210	20 A		1.00	0.36				20 A	RECEPT - PUBLIC PCS 201	12	62	
63	12	HAND DRYER - WC 209	20 A			1.00	0.36			20 A	RECEPT - PUBLIC PCS 201	12	64	
65	12	DOOR HARDWARE -	20 A				0.60	1.08		20 A	RECEPT - COLLECTIONS 216,...	12	66	
67	10	MOTORIZED SHADES - QUIET STUDY...	20 A		0.30	0.54				20 A	RECEPT - STUDY 202, 203	12	68	
69	12	MOTORIZED SHADES - TEEN 215	20 A			0.30	0.00			20 A	SPARE	12	70	
71	12	RECEPT - ELEVATOR CAB	20 A					0.36	0.00	20 A	SPARE	12	72	
73		SPARE	20 A		0.00	0.00				20 A	SPARE	12	74	
75		SPARE	20 A			0.00	0.00			20 A	SPARE	12	76	
77		SPARE	20 A				0.00	0.00		20 A	SPARE	12	78	
79		SPARE	20 A		0.00	0.00				20 A	SPARE	12	80	
81		SPARE	20 A				0.00	0.00		20 A	SPARE	12	82	
83		SPARE	20 A				0.00	0.00		20 A	SPARE	12	84	
					Total Load:	12.78 kVA	10.62 kVA	11.74 kVA						
					Total Amps:	108 A	89 A	99 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	360 VA	125.00%	450 VA	
Power	6000 VA	100.00%	6000 VA	Total Conn. Load: 34140 VA
Receptacle	27780 VA	68.00%	18890 VA	Total Est. Demand: 25340 VA
				Total Conn.: 95 A
				Total Est. Demand: 70 A

Branch Panel: P2

Location: ELECTRIC 119
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 225 A

Notes:

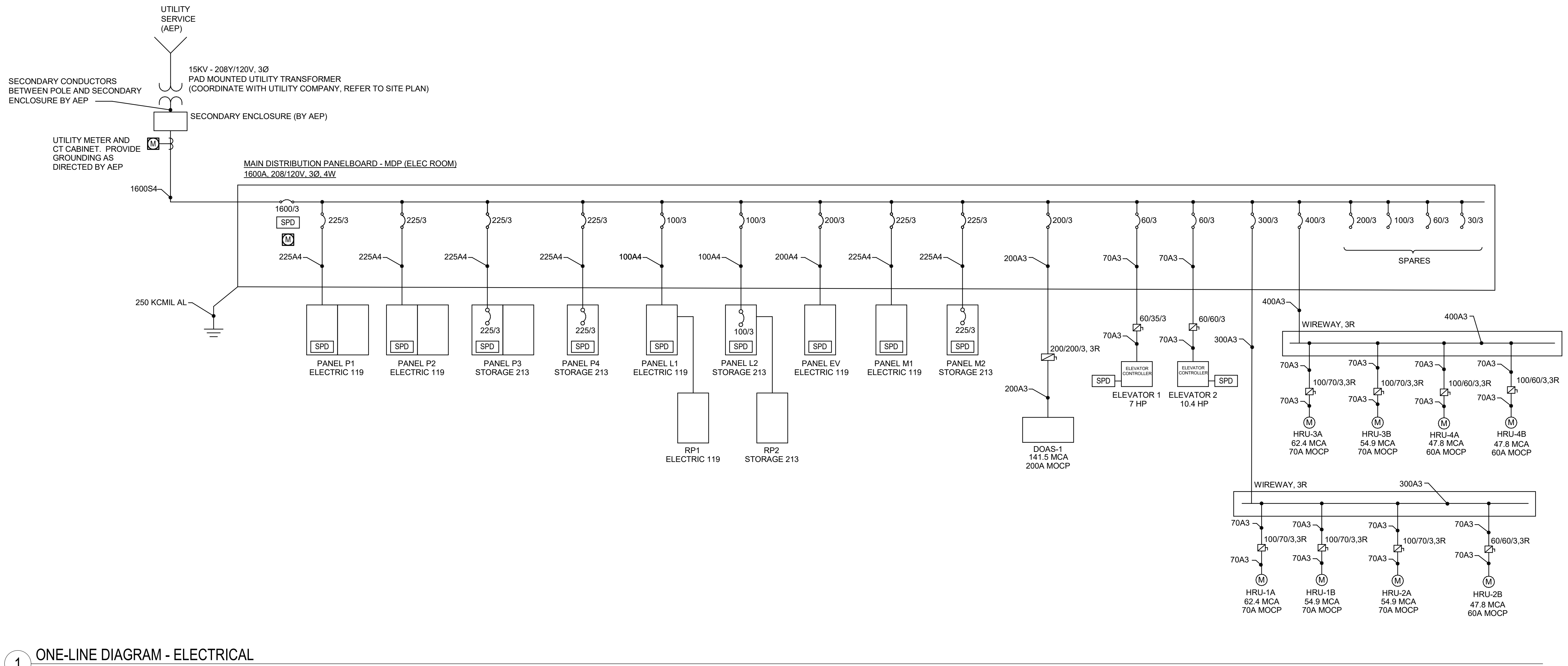
CKT	Wire Size	Circuit Description	Trip	Brkr Opt	A	B	C	Brkr Opt	Trip	Circuit Description	Wire Size	CKT	
1	12	Hand Dryer - WC 124	20 A		1.00	0.72				20 A	Recept. - BOH Hall 123	12	2
3	12	Auto Flushers - 1st Flr Toilets 124, 126	20 A			1.20	0.36			20 A	Receptacle - IT Room 125	12	4
5	12	Recept. - WC 124 and WC 126	20 A				0.72	0.36		20 A	Receptacle - IT Room 125	12	6
7	12	Receptacle - IT Room 125	20 A		0.36	0.36				20 A	Receptacle - IT Room 125	12	8
9	12	Receptacle - IT Room 125	20 A			0.36	0.36			20 A	Receptacle - IT Room 125	12	10
11	12	Receptacle - IT Room 125	20 A				0.36	0.09		20 A	Special Receptacle - IT Room 125	12	12
13	12	Receptacle - IT Room 125	20 A		0.36	0.09				20 A	Special Receptacle - IT Room 125	12	14
15	12	Special Receptacle - IT Room 125	20 A			0.09	0.09			20 A	Special Receptacle - IT Room 125	12	16
17	12	Special Receptacle - IT Room 125	20 A			0.09	0.09			20 A	Special Receptacle - IT Room 125	12	18
19	12	Special Receptacle - IT Room 125	20 A		0.09	0.09				20 A	Special Receptacle - IT Room 125	12	20
21	12	Special Receptacle - IT Room 125	20 A			0.09	0.09			20 A	Special Receptacle - IT Room 125	12	22
23	12	Special Receptacle - IT Room 125	20 A		0.09	0.09				20 A	Special Receptacle - IT Room 125	12	24
25	12	Special Receptacle - IT Room 12											

COPPER FEEDER SCHEDULES							
TAG	# OF SETS	PHASE WIRES QUANTITY - SIZE	NEUTRAL WIRE QUANTITY - SIZE	GROUND SIZE	CONDUIT SIZE PER SET	PURPOSE	NOTES
20A3	1	3-12 AWG	-	12 AWG	3/4"	3 PHASE EQUIPMENT AND MOTOR FEEDERS	
30A3	1	3-10 AWG	-	10 AWG	3/4"		
40A3	1	3-8 AWG	-	10 AWG	3/4"		
50A3	1	3-6 AWG	-	10 AWG	3/4"		
70A3	1	3-4 AWG	-	8 AWG	1"		
90A3	1	3-2 AWG	-	8 AWG	1-1/4"		
110A3	1	3-1 AWG	-	6 AWG	1-1/4"		
150A3	1	3-1/0 AWG	-	6 AWG	1-1/2"		
175A3	1	3-2/0 AWG	-	6 AWG	1-1/2"		
200A3	1	3-3/0 AWG	-	6 AWG	2"		
300A3	1	3-350 KCMIL	-	4 AWG	2"-1/2"		
400A3	1	3-600 KCMIL	-	3 AWG	3"		

- COPPER FEEDER GENERAL NOTES:
- IF CONDUIT OR CONDUCTOR SIZE ARE NOT INDICATED, SELECT FROM THE FEEDER SCHEDULE TABLE ABOVE
 - NOT ALL SIZES SHOWN ARE USED
 - CONDUIT SIZES SHOWN ARE BASED ON EMT TYPE, AND CONDUCTORS WITH THHN, THWN, OR XHHW INSULATION. CONTRACT SHALL COMPLY WITH NEC FILL RATIOS IF ANY OTHER TYPE COMBINATIONS ARE USED.
 - AMPACITY SHOWN IS THE NOMINAL REQUIRED FOR CONDUCTORS INDICATED. CONDUCTORS WITH HIGHER CURRENT RATINGS MAY BE SHOWN ON THE DRAWINGS TO ACCOUNT FOR VOLTAGE DROP OR FOR FUTURE EXPANSION.

ALUMINUM FEEDER SCHEDULES							
TAG	# OF SETS	PHASE WIRES QUANTITY - SIZE	NEUTRAL WIRE QUANTITY - SIZE	GROUND SIZE	CONDUIT SIZE PER SET	PURPOSE	NOTES
100A4	1	3-1 AWG	1-1 AWG	8 AWG	1-1/2"	POWER PANELS, DISTRIBUTION PANELBOARDS, AND SWITCHBOARDS	
150A4	1	3-4/0 AWG	1-4/0 AWG	4 AWG	2-1/2"		
200A4	1	3-250 KCMIL	1-250 KCMIL	4 AWG	2-1/2"		
225A4	1	3-300 KCMIL	1-300 KCMIL	2 AWG	3"		
250A4	1	3-350 KCMIL	1-350 KCMIL	2 AWG	3"		
300A4	1	3-500 KCMIL	1-500 KCMIL	2 AWG	3-1/2"		
350A4	2	3-4/0 AWG	1-4/0 AWG	1 AWG	2-1/2"		
400A4	2	3-250 KCMIL	1-250 KCMIL	1 AWG	2-1/2"		
500A4	2	3-350 KCMIL	1-350 KCMIL	1/0 AWG	3"		
600A4	2	3-500 KCMIL	1-500 KCMIL	2/0 AWG	3-1/2"		
800A4	3	3-400 KCMIL	1-400 KCMIL	3/0 AWG	3"		
1000A4	3	3-600 KCMIL	1-600 KCMIL	4/0 AWG	3-1/2"		
1200A4	4	3-500 KCMIL	1-500 KCMIL	250 KCMIL	3-1/2"		
1600A4	5	3-600 KCMIL	1-600 KCMIL	350 KCMIL	4"		
2000A4	6	3-600 KCMIL	1-600 KCMIL	400 KCMIL	4"		
2500A4	8	3-600 KCMIL	1-600 KCMIL	600 KCMIL	4"		
3000A4	9	3-600 KCMIL	1-600 KCMIL	600 KCMIL	4"		
4000A4	12	3-600 KCMIL	1-600 KCMIL	750 KCMIL	4"		
100A5	1	3-1/0 AWG	2-1/0 AWG	8 AWG	2"	POWER PANELS, DISTRIBUTION PANELBOARDS, AND SWITCHBOARDS W/ 200% NEUTRAL	
200A5	1	3-350 KCMIL	2-350 KCMIL	4 AWG	3"		
225A5	1	3-500 KCMIL	2-500 KCMIL	2 AWG	3-1/2"		
250A5	1	3-600 KCMIL	2-600 KCMIL	2 AWG	4"		
400A5	2	3-350 KCMIL	2-350 KCMIL	1 AWG	3"		
600A5	3	3-350 KCMIL	2-350 KCMIL	2/0 AWG	3"		
800A5	3	3-600 KCMIL	2-600 KCMIL	3/0 AWG	4"		
1000A5	4	3-600 KCMIL	2-600 KCMIL	4/0 AWG	4"		
1200A5	5	3-500 KCMIL	2-500 KCMIL	250 KCMIL	4"		
1600A5	6	3-600 KCMIL	2-600 KCMIL	350 KCMIL	4"		
2000A5	8	3-600 KCMIL	2-600 KCMIL	400 KCMIL	4"		
100L4	1	3-1/0 AWG	1-1/0 AWG	8 AWG	2"	LIGHTING PANELS AND OTHER LOADS WITH CURRENT CARRYING NEUTRAL	
200L4	1	3-350 KCMIL	1-350 KCMIL	4 AWG	3"		
225L4	1	3-500 KCMIL	1-500 KCMIL	2 AWG	3-1/2"		
400L4	2	3-350 KCMIL	1-350 KCMIL	1 AWG	3"		
600L4	3	3-350 KCMIL	1-350 KCMIL	2/0 AWG	3"		
800L4	3	3-600 KCMIL	1-600 KCMIL	3/0 AWG	4"		
600S4	2	3-500 KCMIL	1-500 KCMIL	-	4"	3P,4W SERVICE FEEDERS	
1600S4	6	3-600 KCMIL	1-600 KCMIL	-	4"		
3000S4	9	3-600 KCMIL	1-600 KCMIL	-	5"		

- ALUMINUM FEEDER GENERAL NOTES:
- IF CONDUIT OR CONDUCTOR SIZE ARE NOT INDICATED, SELECT FROM THE FEEDER SCHEDULE TABLE ABOVE
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 - CONDUIT SIZES SHOWN ARE BASED ON SCHEDULE 40 PVC TYPE, AND CONDUCTORS WITH THHN, THWN, OR XHHW INSULATION. CONTRACT SHALL COMPLY WITH NEC FILL RATIOS IF ANY OTHER TYPE COMBINATIONS ARE USED.
 - AMPACITY SHOWN IS THE NOMINAL REQUIRED FOR CONDUCTORS INDICATED. CONDUCTORS WITH HIGHER CURRENT RATINGS MAY BE SHOWN ON THE DRAWINGS TO ACCOUNT FOR VOLTAGE DROP OR FOR FUTURE EXPANSION.



1 ONE-LINE DIAGRAM - ELECTRICAL
NTS

EQUIPMENT SHORT-CIRCUIT (AIC) SCHEDULE			
EQUIPMENT TAG	AVAILABLE SHORT-CIRCUIT CURRENT (AMPS)	MINIMUM EQUIPMENT AIC RATING	REMARKS
MDP	23,792	65k	
PANEL P1	12,895	22k	
PANEL P2	12,895	22k	
PANEL P3	10,025	22k	
PANEL P4	10,025	22k	
PANEL L1	6,355	22k	
PANEL L2	4,359	22k	
PANEL EV	11,757	22k	
PANEL M1	12,895	22k	
PANEL M2	10,025	22k	

Switchboard: MDP				
Location: ELECTRIC 119		Volts: 120/208 Wye	A.I.C. Rating: 65,000	
Supply From: Utility		Phas... 3	Mains Type: M.C.B.	
Mounting: Surface		Wires: 4	Mains Rating: 1600 A	
Enclosure: Type 1			MCB Rating: 1600 A	
CKT	Circuit Description	# of Poles	Load	Remarks
1	M1 - ELECTRIC 119	3	31.8 kVA	
2	M2 - STORAGE 213	3	37.5 kVA	
3	P1 - ELECTRIC 119	3	43.9 kVA	
4	P2 - ELECTRIC 119	3	42.3 kVA	
5	P3 - STORAGE 213	3	35.1 kVA	
6	P4 - STORAGE 213	3	19.6 kVA	
7	L1 - ELECTRIC 119	3	23.9 kVA	
8	L2 - STORAGE 213	3	14.4 kVA	
9	EV - ELECTRIC 119	3	0.0 kVA	
10	DOAS - ROOF	3	35.2 kVA	
11	ELEVATOR CONTROLLER - ELEV 1 129	3	13.7 kVA	
12	ELEVATOR CONTROLLER - ELEV 2 127	3	19.4 kVA	
13	HRU-1A, HRU-1B, HRU-2A, HRU-2A - ROOF	3	79.2 kVA	
14	HRU-3A, HRU-3B, HRU-4A, HRU-4B - ROOF	3	76.6 kVA	
15	SPARE	3	0.0 kVA	
16	SPARE	3	0.0 kVA	
17	SPARE	3	0.0 kVA	
18	SPARE	3	0.0 kVA	
19	SPARE	3	0.0 kVA	
20	SPARE	3	0.0 kVA	
			470.4 kVA	
			1306 A	
Conn. Load		Demand Load	Demand Current	
470.4 kVA		432.3 kVA	1200 A	

REVISION SCHEDULE		
#	DATE	REVISION DESCRIPTION

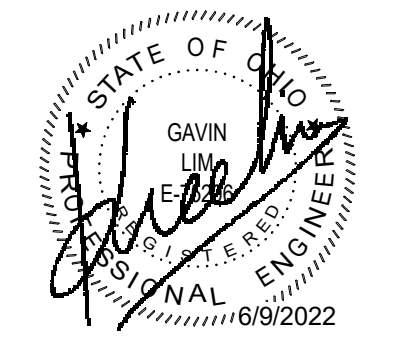
PROJECT NAME :

CML REYNOLDSBURG
1402 BRICE ROAD
REYNOLDSBURG, OHIO 43068

100% CONSTRUCTION DOCUMENTS
ISSUED FOR BIDDING AND PERMITS

ISSUE DATE : 06/10/22

AEC ADVANCED ENGINEERING CONSULTANTS
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