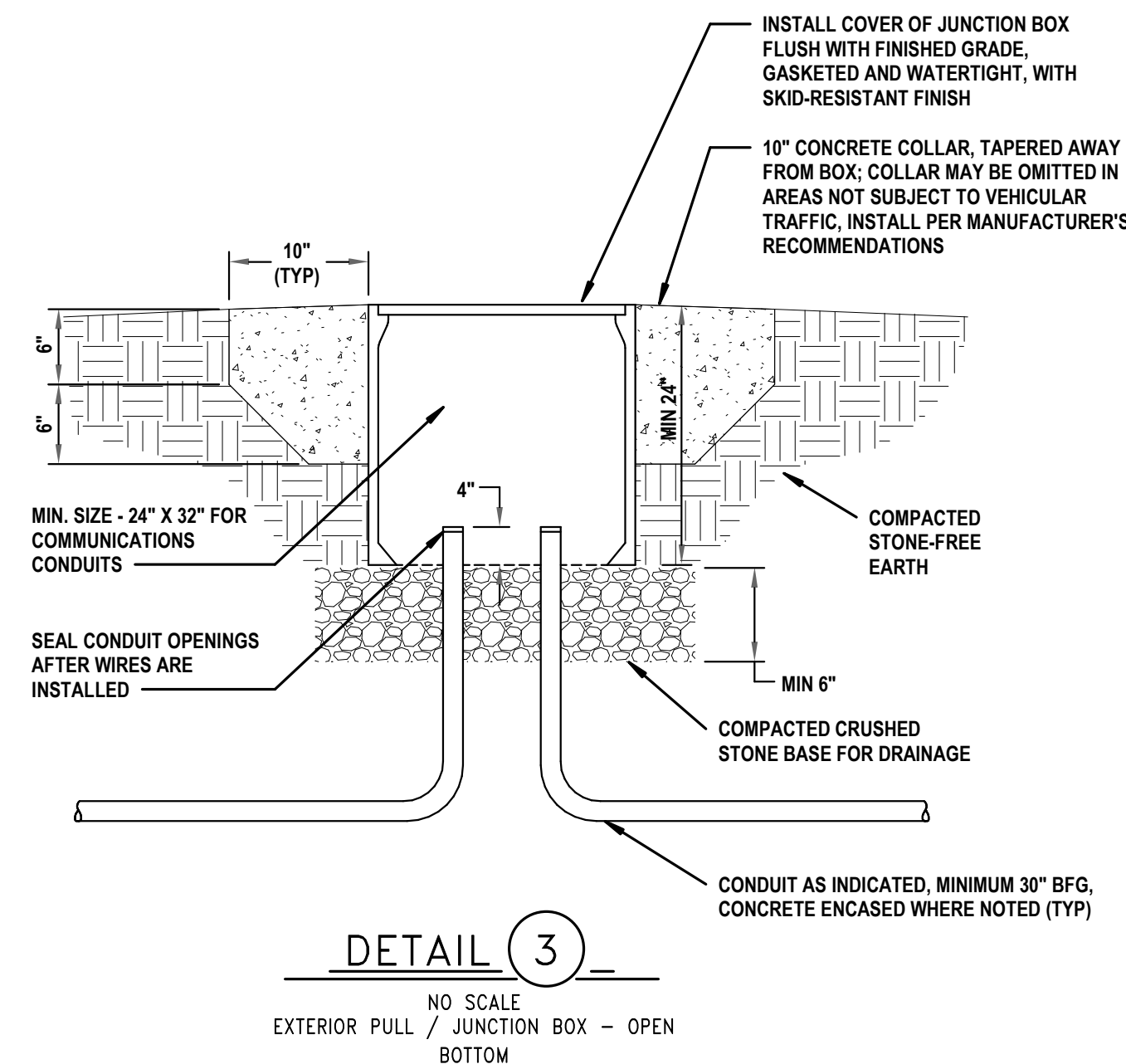
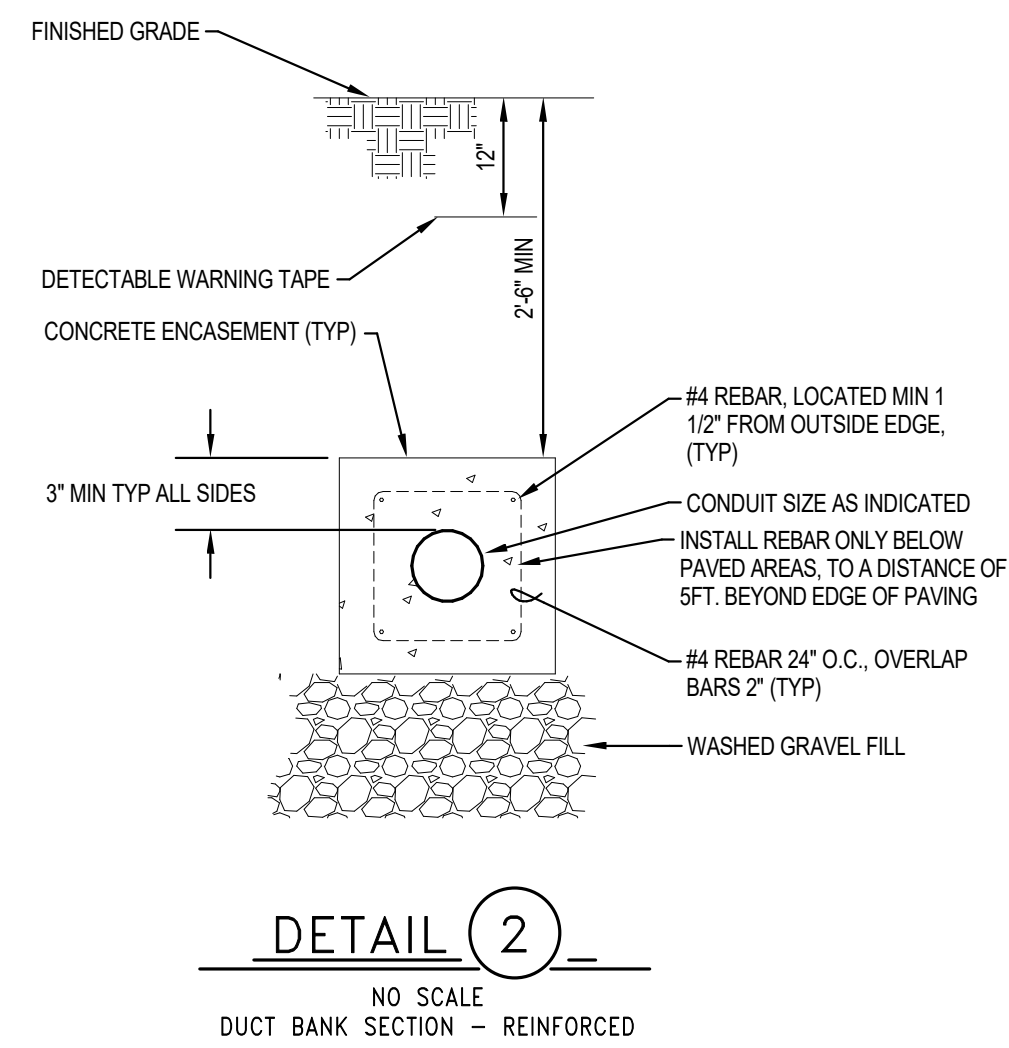
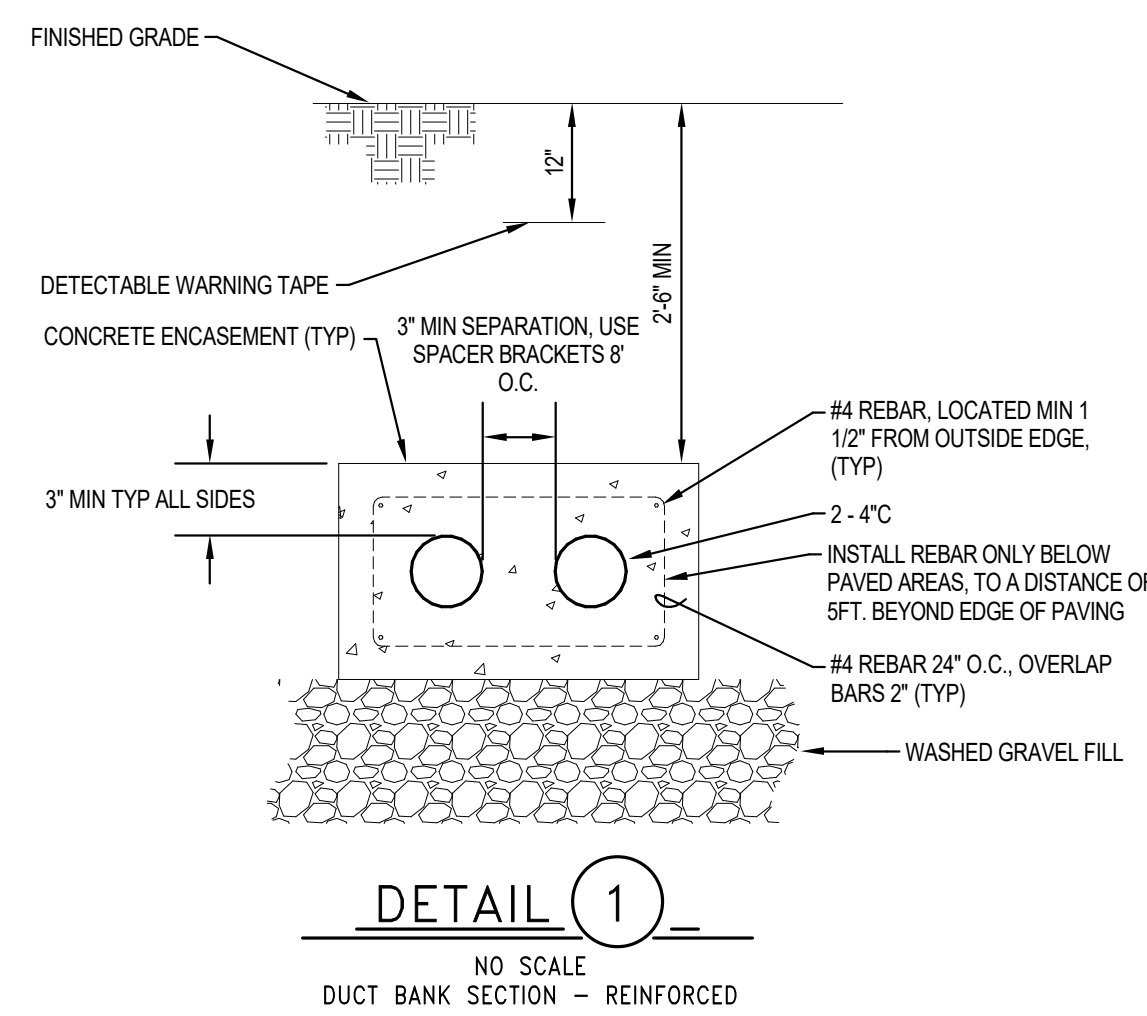
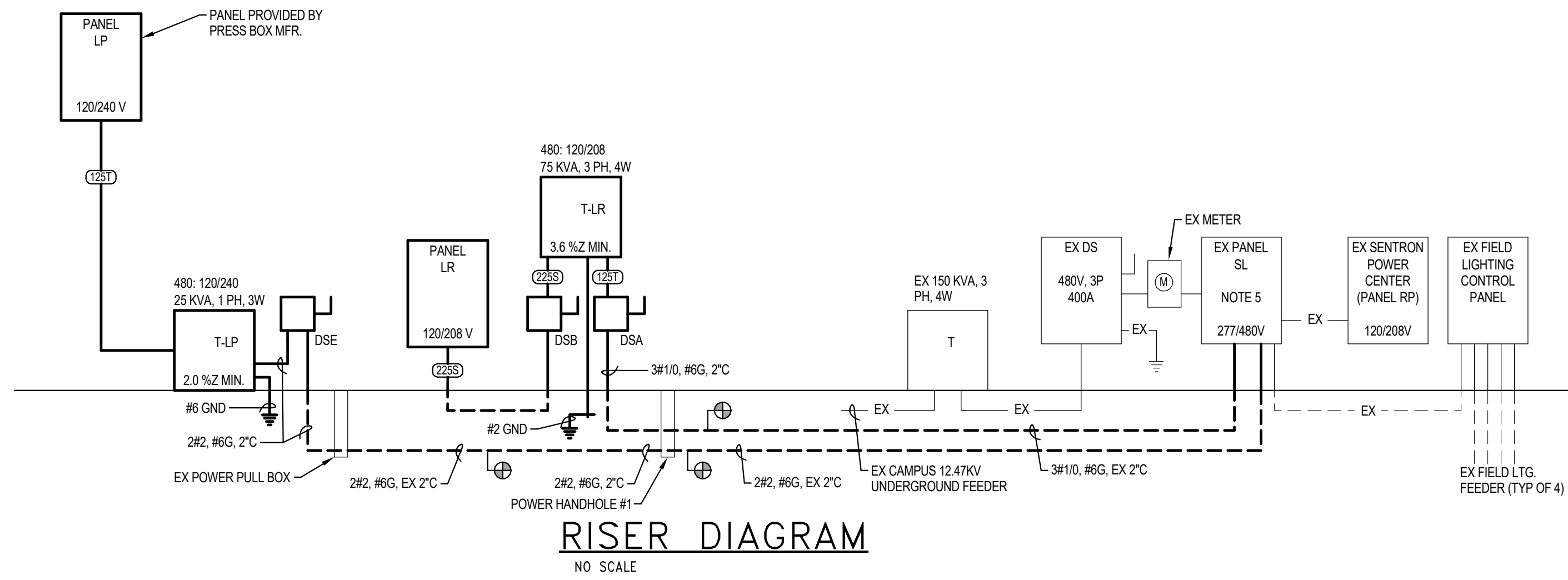


| FEEDER SCHEDULE | |
|-----------------|-----------------------------------|
| (30) | 4#10, #10G, 1°C |
| (30T) | 3#10, #10G, 1°C |
| (36) | 4#6, #6G, 1°C |
| (36T) | 3#6, #6G, 1°C |
| (36T) | 3#4, #6G, 1°C |
| (100) | 4#2, #6G, 1 1/4°C |
| (125) | 4#1, #6G, 1 1/2°C |
| (125T) | 3#1, #6G, 1 1/2°C |
| (150) | 4#10, #6G, 2°C |
| (175) | 4#20, #6G, 2°C |
| (235T) | 3#20, #6G, 2°C |
| (200) | 4#30, #6G, 2 1/2°C |
| (225) | 4#40, #4G, 2 1/2°C |
| (225S) | 4#40, #2G, 2 1/2°C |
| (250) | 4-250KCMIL, #4G, 2 1/2°C |
| (250T) | 3-250KCMIL, #4G, 2 1/2°C |
| (275) | 4-300KCMIL, #4G, 3°C |
| (300) | 4-350KCMIL, #4G, 3°C |
| (350) | 4-400KCMIL, #3G, 3°C |
| (350T) | 3-400KCMIL, #3G, 3°C |
| (400) | 4-500KCMIL, #3G, 3 1/2°C |
| (505S) | 4-600KCMIL, #10G, 4°C |
| (505T) | 2 SETS (4-250KCMIL, #2G, 2 1/2°C) |
| (500T) | 2 SETS (3-250KCMIL, #2G, 2 1/2°C) |
| (600) | 2 SETS (4-350KCMIL, #1G, 3°C) |



| MECHANICAL-ELECTRICAL COORDINATION SCHEDULE | | | | | | | | | | | | | | | |
|---|-----------------------|----------------------------------|-------|-----|------|------|------|---------------------|-------|----------|------------------|------------------|-----------|---------|---|
| DESIG | DESCRIPTION | ELECTRICAL NAMEPLATE INFORMATION | | | | | | CIRCUIT INFORMATION | | | | MAX AVAIL. FAULT | DISC TYPE | STARTER | REMARKS |
| | | VOLTS | PHASE | HP | KW | FLA | MCA | MOCB | PANEL | BREAKER | WIRING | | | | |
| CP-1 | CIRCULATING PUMP | 120 | 1 | 1/8 | - | - | 4.0 | 15 | LR | 20 | 2#12, #120, 3/4" | | - | MANUAL | |
| DL-1 | ELECTRIC DUCT COIL | 208 | 3 | - | 12 | - | 41.7 | 50 | LR | 2,4,6 | 3#8, #102, 1" | | INTEGRAL | - | |
| DWH-1 | DOMESTIC WATER HEATER | 208 | 3 | - | 10 | - | 34.7 | 40 | LR | 8,10,12 | 3#8, #102, 1" | | DSF | - | |
| ERV-1 | ENERGY RECOVERY UNIT | 208 | 3 | - | - | - | 11.5 | 15 | LR | 14,16,18 | 3#12, #120, 3/4" | 1237A | - | MSA | |
| F-1 | FAN | 120 | 1 | - | .060 | - | 1.0 | 15 | LR | 22 | 2#12, #120, 3/4" | | INTEGRAL | * | * WIRE THROUGH LINE VOLTAGE TSTAT BY HC |
| UH-1 | UNIT HEATER | 208 | 1 | - | 3.3 | 15.9 | 19.8 | 20 | LR | 24,26 | 2#12, #120, 3/4" | | INTEGRAL | ** | ** LOW VOLTAGE TSTAT BY HC |
| UH-2 | UNIT HEATER | 208 | 1 | - | 3.3 | 15.9 | 19.8 | 20 | LR | 28,30 | 2#12, #120, 3/4" | | INTEGRAL | ** | ** LOW VOLTAGE TSTAT BY HC |
| UH-3 | UNIT HEATER | 208 | 1 | - | 3.3 | 15.9 | 19.8 | 20 | LR | 32,34 | 2#12, #120, 3/4" | | INTEGRAL | ** | ** LOW VOLTAGE TSTAT BY HC |
| UH-4 | UNIT HEATER | 208 | 1 | - | 3.3 | 15.9 | 19.8 | 20 | LR | 36,38 | 2#12, #120, 3/4" | | INTEGRAL | ** | ** LOW VOLTAGE TSTAT BY HC |

PANEL LR

BUS RATING: 225A

MINS. MLO

RATINGS: 120/208V, 3PH, 4W

MOUNTING: SURFACE

MIN A.I.C. RATING: 22,000

| CKT NO | CIRCUIT DESCRIPTION | BREAKER | P | TRIP | LOAD (KVA) | | | LOAD (KVA) | | | BREAKER | TRIP | P | CIRCUIT DESCRIPTION | CKT NO |
|--------|-------------------------------|---------|------|------|------------|------|------|------------|------|------|---------|------|-------------------|---------------------|--------|
| | | | | | A | B | C | A | B | C | | | | | |
| 1 | LIGHTING | 1 | 20 A | 0.31 | | | | 4.00 | | | | | | | 2 |
| 3 | LIGHTING | 1 | 20 A | | 0.16 | | | 4.00 | | | 50 A | 3 | DC-1 | | 6 |
| 5 | LIGHTING | 1 | 20 A | | | | | 4.00 | | | | | | | 4 |
| 7 | REC - EXTERIOR | 1 | 20 A | 1.26 | | | | 3.33 | | | | | | | 8 |
| 9 | REC - ROOMS R101, R102, R103 | 1 | 20 A | | 0.54 | | | 3.33 | | | 40 A | 3 | DWH-1 | | 10 |
| 11 | HAND DRYER MENS R101 | 1 | 20 A | | | | 2.00 | | 3.33 | | | | | | 12 |
| 13 | HAND DRYER MENS R101 | 1 | 20 A | 2.00 | | | | 1.10 | | | | | | | 14 |
| 15 | HAND DRYER SINGLE R102 | 1 | 20 A | | 2.00 | | | 1.10 | | | 15 A | 3 | ERV-1 | | 16 |
| 17 | REC - CUSTODIAL J110 | 1 | 20 A | | | | | 1.10 | | | | | | | 18 |
| 19 | REC - CUSTODIAL J110 | 1 | 20 A | 0.18 | | 0.02 | 0.25 | | 15 A | 1 | CP-1 | | | | 20 |
| 21 | ACCESS CONTROL & POWER SUPPLY | 1 | 20 A | | 0.00 | | | 0.06 | 15 A | 1 | F-1 | | | | 22 |
| 23 | FIRE ALARM CONTROL PANEL | 1 | 20 A | | | 0.50 | | | 1.65 | 20 A | 2 | UH-1 | | | 24 |
| 25 | REC - CUSTODIAL J110 | 1 | 20 A | 0.18 | | | | 1.65 | | | | | | | 26 |
| 27 | HAND DRYER WOMENS R103 | 1 | 20 A | | 2.00 | | | 1.65 | | 20 A | 2 | UH-2 | | | 28 |
| 29 | HAND DRYER WOMENS R103 | 1 | 20 A | | | 2.00 | | 1.65 | | | | | | | 30 |
| 31 | BA - MTR CUSTODIAL J106 | 1 | 20 A | 0.18 | | | | 1.65 | | 20 A | 2 | UH-3 | | | 32 |
| 33 | SPARE | 1 | 20 A | | | | | 1.65 | | | | | | | 34 |
| 35 | SPARE | 1 | 20 A | | | 0.00 | | 1.65 | | 20 A | 2 | UH-4 | | | 36 |
| 37 | PROVISIONAL SPACE | 1 | -- | -- | -- | -- | -- | 1.65 | | | | | | | 38 |
| 39 | PROVISIONAL SPACE | 1 | -- | -- | -- | -- | -- | -- | -- | -- | 1 | | PROVISIONAL SPACE | | 40 |
| 41 | PROVISIONAL SPACE | 1 | -- | -- | -- | -- | -- | -- | -- | -- | 1 | | PROVISIONAL SPACE | | 42 |

TOTAL CONNECTED LOAD PHASE A: 17.02 kVA

TOTAL CONNECTED LOAD PHASE B: 15.96 kVA

TOTAL CONNECTED LOAD PHASE C: 17.72 kVA

TOTAL CONNECTED LOAD: 50.7 kVA

NOTES:

PROVIDE INTEGRAL SURGE PROTECTION DEVICE.

* PROVIDE GFCI BREAKER

96.88% DEMAND FACTOR

49.1% DEMAND LOAD

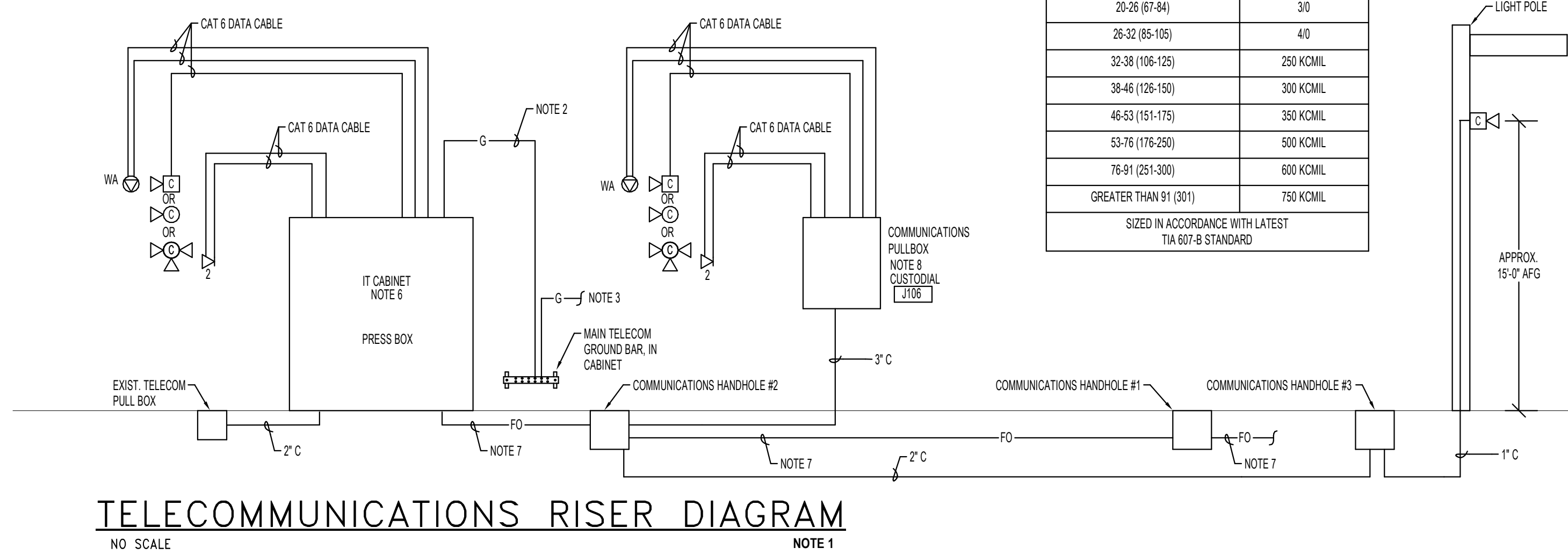
156.3 A DEMAND AMPS

130.3 A DEMAND *1.25

| DISCONNECT SWITCH SCHEDULE | | | | | | | | |
|---|----------------------------------|-------|------|-------|------|-----|----------------|--------------|
| * FUSE TO BE DETERMINED IN FIELD FROM UNIT FULL LOAD AMPS | | | | | | | | |
| DESIG | DESCRIPTION | VOLTS | AMPS | POLES | FUSE | | NEMA ENCLOSURE | REMARKS |
| DSA | TRANSFORMER PRIMARY DISCONNECT | 480 | 200 | 3 | - | - | 3R | ** NON-FUSED |
| DSB | TRANSFORMER SECONDARY DISCONNECT | 480 | 400 | 3 | 225 | RK1 | 3R | ** NON-FUSED |
| DSE | PRIMARY DISCONNECT SWITCH | 480 | 100 | 3 | - | ** | 3R | ** NON-FUSED |
| DSF | DWH-1 | 208 | 60 | 3 | - | ** | 1 | ** NON-FUSED |

| TELECOM GROUNDING | |
|-----------------------------|-------------------|
| TBBLGE LINEAR LENGTH m (ft) | TBBLGE SIZE (AWG) |
| LESS THAN 4 (13) | 6 |
| 4.6 (14.20) | 4 |
| 6.8 (21.26) | 3 |
| 8-10 (27.30) | 2 |
| 13.35 (43.41) | 1 |
| 13.56 (44.50) | 1/0 |
| 16.20 (53.46) | 2/0 |
| 20.28 (67.54) | 3/0 |
| 26.32 (85.16) | 4/0 |
| 32.48 (106.12) | 250 KCMIL |
| 38.46 (126.15) | 300 KCMIL |
| 46.63 (151.17) | 350 KCMIL |
| 53.79 (175.25) | 500 KCMIL |
| 76.91 (251.30) | 600 KCMIL |
| GREATER THAN 91 (301) | 750 KCMIL |

*SEE IN ACCORDANCE WITH LATEST
 IIA 607.8 STANDARD



- | TELECOMMUNICATIONS RISER DIAGRAM | |
|---|--------|
| NO SCALE | NOTE 1 |
| <p><u>NOTES:</u></p> <ol style="list-style-type: none"> 1. SYMBOLS SHOWN ARE TYPICAL OF OUTLET TYPES. REFER TO SITE PLAN AND FLOOR PLANS FOR QUANTITIES AND LOCATIONS OF ALL DEVICES AND EQUIPMENT. 2. FURNISH AND INSTALL GROUNDING CONDUCTORS FROM GROUND BAR TO OWNER'S EQUIPMENT IN RACKS, AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS. 3. EXTEND GROUNDING CONDUCTOR TO MAIN ELECTRICAL GROUND BUS. 4. SIZE GROUNDING CONDUCTORS PER TIA STANDARD 607B. REFER TO GROUNDING CONDUCTOR SIZING CHART ON THIS SHEET. 5. EXISTING PANEL IS MANUFACTURED BY SIEMENS, TYPE P1. REMOVE (2) EXISTING 100 AMP, 2 POLE SPARE CIRCUIT BREAKERS AND TURN OVER TO UNIVERSITY. REPLACE WITH 70 AMP, 2 POLE CIRCUIT BREAKER FOR PANEL LP IN PRESS BOX AND 125 AMP, 3 POLE CIRCUIT BREAKER FOR PANEL LR IN RESTROOMS BUILDING. BREAKERS SHALL BE SAME TYPE AND HAVE SAME RATINGS AS EXISTING BREAKERS IN PANEL. CONNECT FEEDER WIRING TO CIRCUIT BREAKERS. 6. CABINET, INCLUDING INTERNAL SWITCHES, POWER DISTRIBUTION UNITS, UPS, PATCH PANELS, WILL BE FURNISHED BY UNIVERSITY, INSTALLED BY GC. MAKE ALL CABLE TERMINATIONS IN APPROPRIATE CABINET COMPONENTS. 7. CONDUIT DUCTBANK FURNISHED AND INSTALLED BY EC. PROVIDE 4 - 1" INNERDUCTS IN EACH CONDUIT. FIBER OPTIC CABLEING WILL BE FURNISHED AND INSTALLED BY UNIVERSITY. 8. CABINET SHALL BE 24" X 24" X 6" MIN. W/ HINGED, LOCKABLE FRONT DOOR. NEMA 1 RATING. | |



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 York, PA 17401



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| | | | |
|----------------------------------|-------------------------|----------------------------|---------------------------|
| PROJECT NO: 2022225-00 | DRAWN BY: ASC | DESIGNED BY: BGB | CHECKED BY: WLS |
|----------------------------------|-------------------------|----------------------------|---------------------------|

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| | | |
|------|------------|------------------|
| | | |
| | | |
| | 01-22-2024 | BID SET |
| | 12-06-2023 | REVISED DRAWINGS |
| | 10-04-2023 | BID SET |
| | 09-27-2023 | PERMIT SET |
| | 09-06-2023 | CD SUBMISSION |
| MARK | DATE | DESCRIPTION |

KEY PLAN

NORTH

A circular compass rose divided into four quadrants by a vertical and horizontal line. The word "NORTH" is written above the circle, aligned with the top vertical line.

PROJECT TITLE:

PENNSTATE
Harrisburg

**STADIUM SEATING &
RESTROOMS BLDG**
PENN STATE UNIVERSITY HARRISBURG CAMPUS
STREET, CITY, STATE ZIP CODE

PSU BUILDING NUMBER: 0985095

PSU PROJECT NUMBER: 00-08713.00

PROJECT NUMBER: 2022.138.00

PROJECT PHASE: CONSTRUCTION DOCUMENTS

POWER DETAILS & SCHEDULES

DRAWN BY: ASC

CHECKED BY: WLS

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DRAWING NO

E601