



** IMAGE FOR REFERENCE ONLY - NOT ACTUAL TRAILER or SITE **

ITD D6 SALMON JOB TRAILER

SALMON, IDAHO

LOCATION MAP



VICINITY MAP



BUILDING DESCRIPTION

THE PROJECT SCOPE ENTAILS A PERMANENT JOB TRAILER LOCATION AT THE ITD D6 SALMON SITE. PROJECT SCOPE IDENTIFIES TRENCHING FOR UTILITIES TO THE JOB TRAILER LOCATION AND A CONCRETE TRAILER PAD. POWER, POWER PANEL, AND WATER SHOULD BE SET AND COMPLETE PRIOR TO THE TRAILER DELIVERY.

SEE THE FULL SET OF DRAWINGS HEREIN FOR ALL ASPECTS OF THE PROJECT.

GENERAL PROJECT NOTES

- DO NOT DISTRIBUTE PARTIAL SETS OF DRAWINGS or SPECIFICATIONS. INFORMATION AFFECTING THE WORK OF OTHER TRADES MAY BE COVERED ON OTHER SHEETS.
- ALL WORK SHALL CONFORM TO PREVAILING CODES, ORDINANCES AND REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION AND SHALL PAY ALL APPLICABLE FEES.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. ALL WORK REQUIRING MEASURING SHALL BE DONE ACCORDING TO FIGURES ON DRAWINGS AND NOT SCALED FROM DRAWINGS. THE ARCHITECT SHALL FURNISH ANY MISSING DIMENSIONS UPON WRITTEN REQUEST.

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DRAWING INDEX

| SHEET NUMBER | SHEET TITLE |
|--------------|--|
| G01 | TITLE SHEET |
| SP01 | JOB TRAILER AND INFO |
| E0.0 | ELECTRICAL & MECHANICAL LEGEND & ABBREVIATIONS |
| E0.1 | ELECTRICAL SPECIFICATIONS |
| E1.0 | ELECTRICAL & MECHANICAL PLAN |
| E5.0 | ELECTRICAL DETAILS |
| E6.0 | SINGLE-LINE DIAGRAM |

ADD ALTERNATES

ADD ALTERNATE #1: NEW WATER LINE AND HYDRANT

BASE BID: ALL WORK ASSOCIATED WITH THE NEW CONCRETE PAD, ELECTRICAL SERVICE, ELECTRICAL DISTRIBUTION, ELECTRICAL PEDESTAL, AND SITE GRADING ASSOCIATED WITH THE CONCRETE PAD. BASE BID EXCLUDES ANY WORK ASSOCIATED WITH THE NEW WATER LINE AND HYDRANT.

ADD ALTERNATE: ALL WORK ASSOCIATED WITH INSTALLATION OF NEW WATER LINE AND WATER HYDRANT ADJACENT TO THE NEW CONCRETE MOBILE UNIT PAD.

ADD ALTERNATE #2: 120/250V, 200 AMP PIN & SLEEVE CONNECTION

BASE BID: ALL WORK ASSOCIATED WITH INSTALLATION OF THE NEW ELECTRICAL SERVICE, PANELS, DISCONNECTS, 100 AMP PIN & SLEEVE CONNECTION, RECEPTACLES, LIGHTS, RELATED ELECTRICAL WORK, AND BREAKER FOR THE 200 AMP PIN & SLEEVE CONNECTION. BASE BID EXCLUDES INSTALLATION OF THE 120/250V, 200 AMP PIN & SLEEVE CONNECTION, CONDUIT FROM THE PANEL TO THE CONNECTION, AND ASSOCIATED CONDUCTORS.

ADD ALTERNATE: INCLUDES ALL WORK ASSOCIATED WITH INSTALLATION OF THE 120/250V, 200 AMP PIN & SLEEVE CONNECTION, CONDUIT FROM THE PANEL TO THE CONNECTION, AND ASSOCIATED CONDUCTORS.



ITD D6 SALMON JOB TRAILER

SALMON, IDAHO

TITLE SHEET

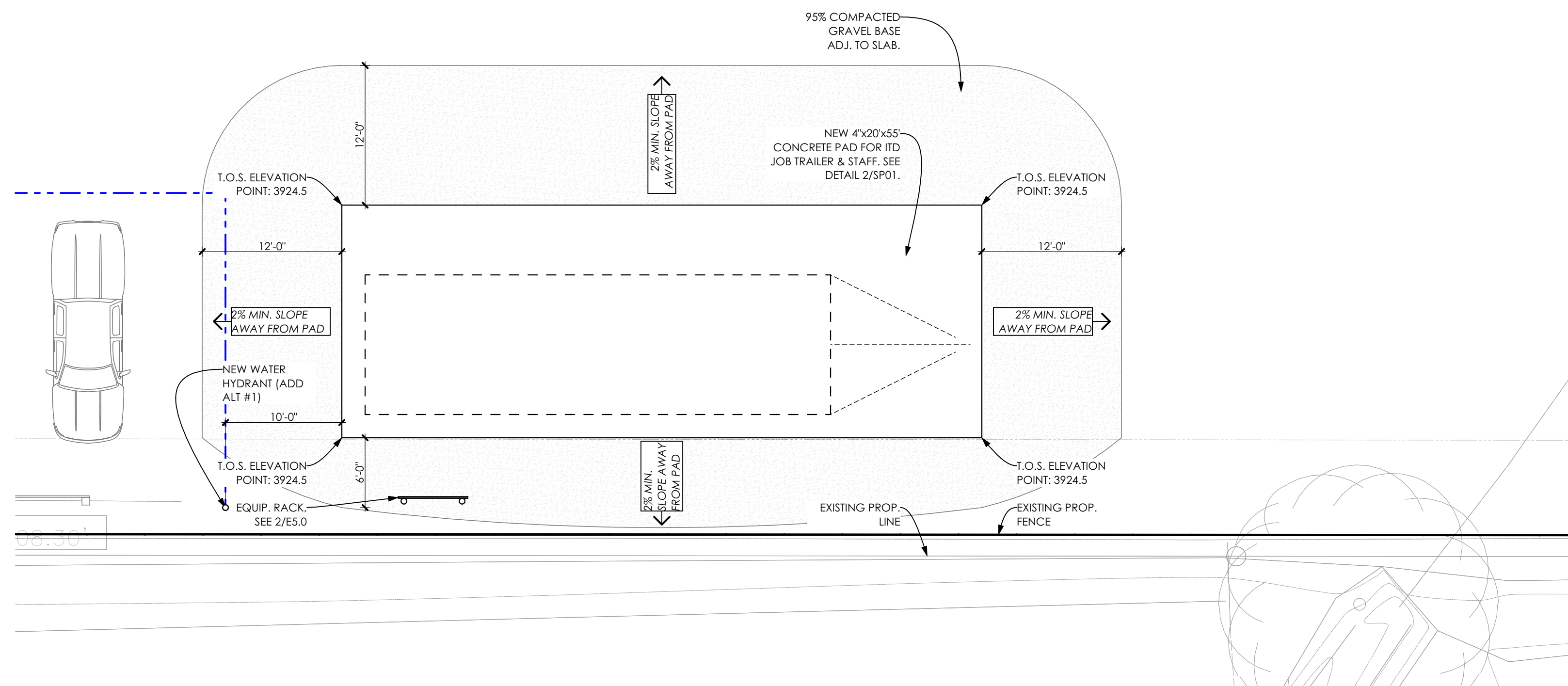
DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN or IMPLIED

DO NOT DISTRIBUTE PARTIAL SETS OF DRAWINGS or SPECIFICATIONS

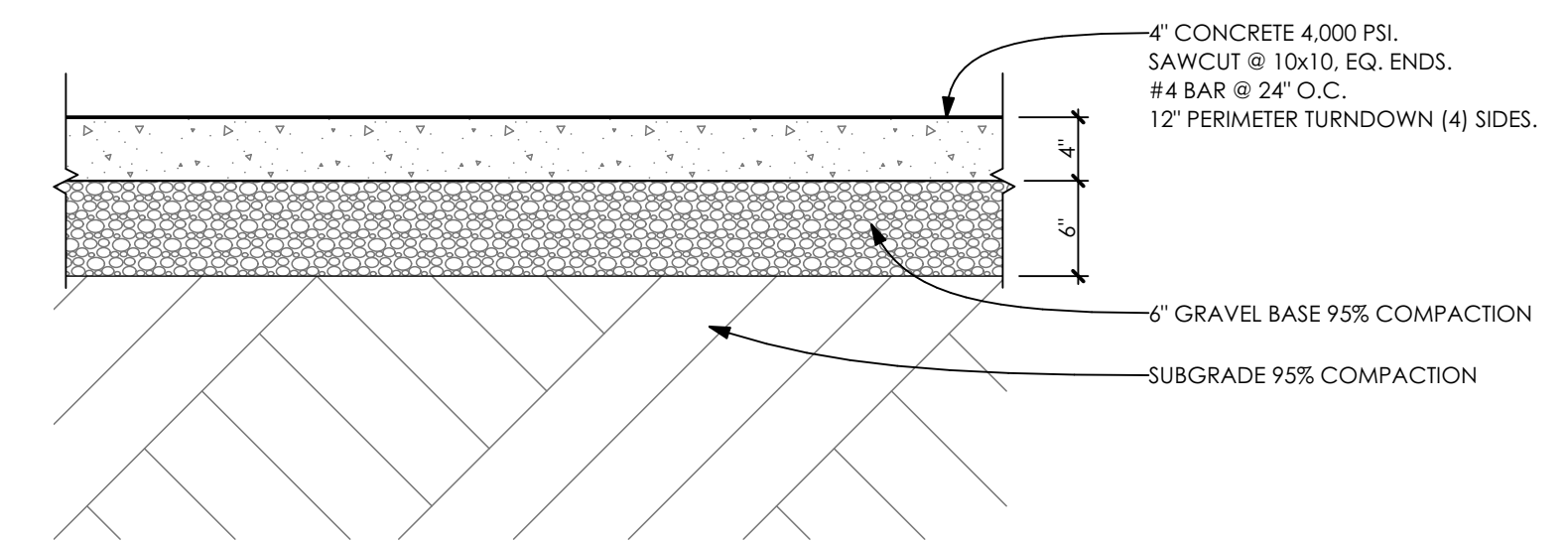
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| CLIENT PROJ. NUMBER: | FM62426 |
| ARCH. JOB NUMBER: | 23606-23A |
| SHEET ISSUED DATE: | MARCH 2024 |
| SHEET | G01 |



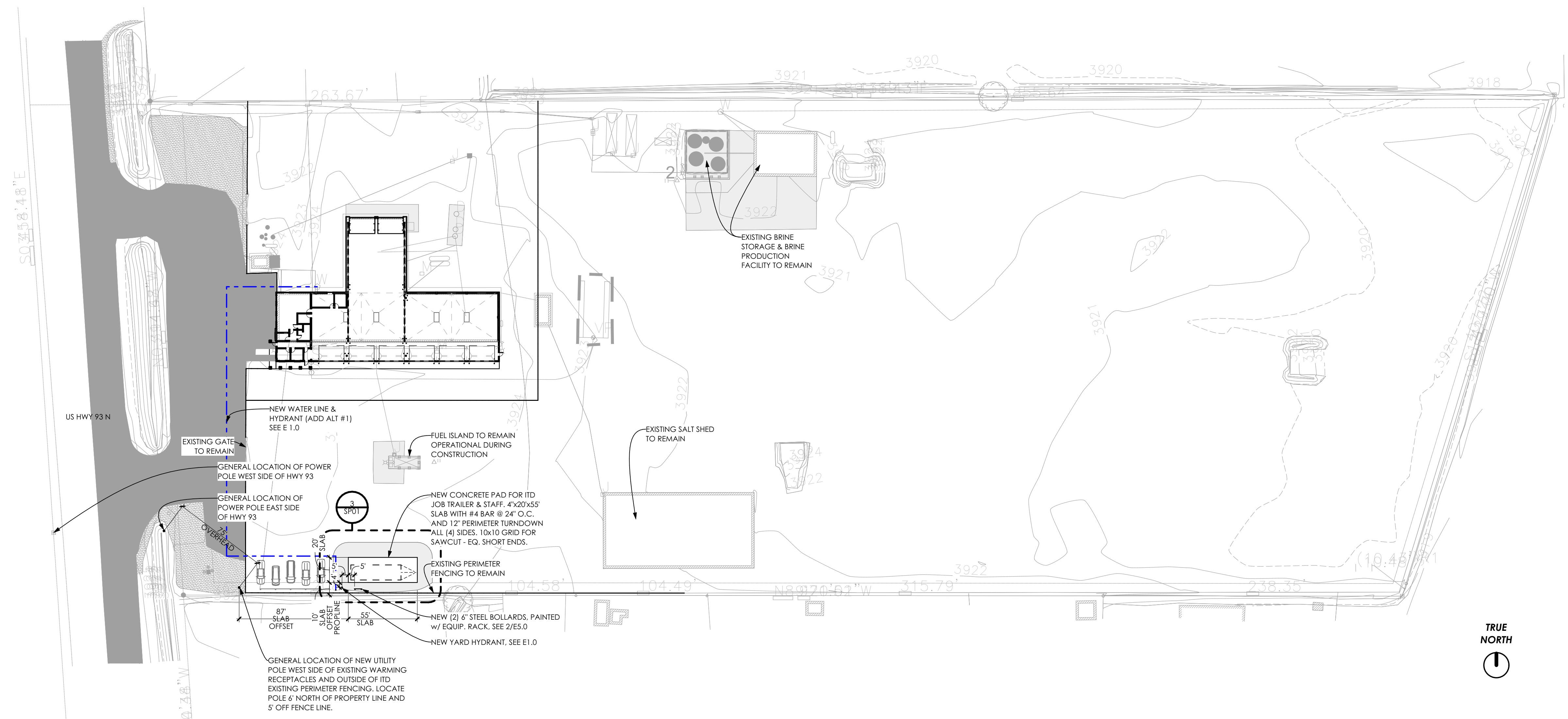
ENLARGED SITE PLAN - JOB TRAILER

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



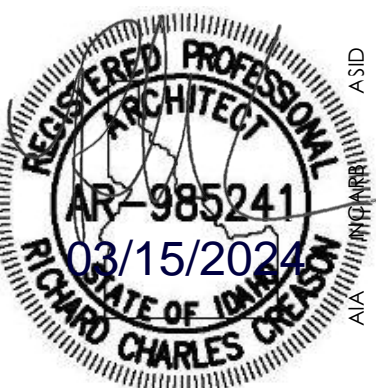
TYP. CONCRETE PAD DETAIL - JOB TRAILER

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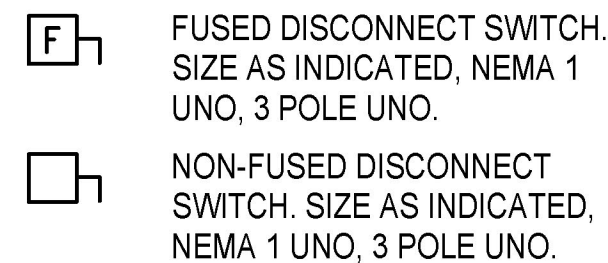
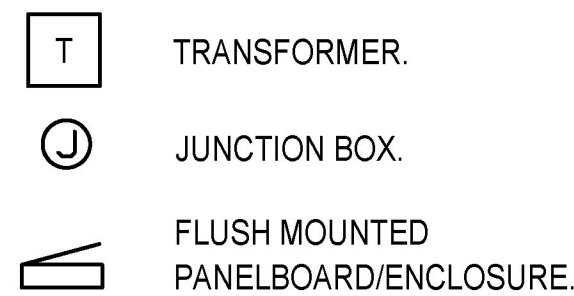
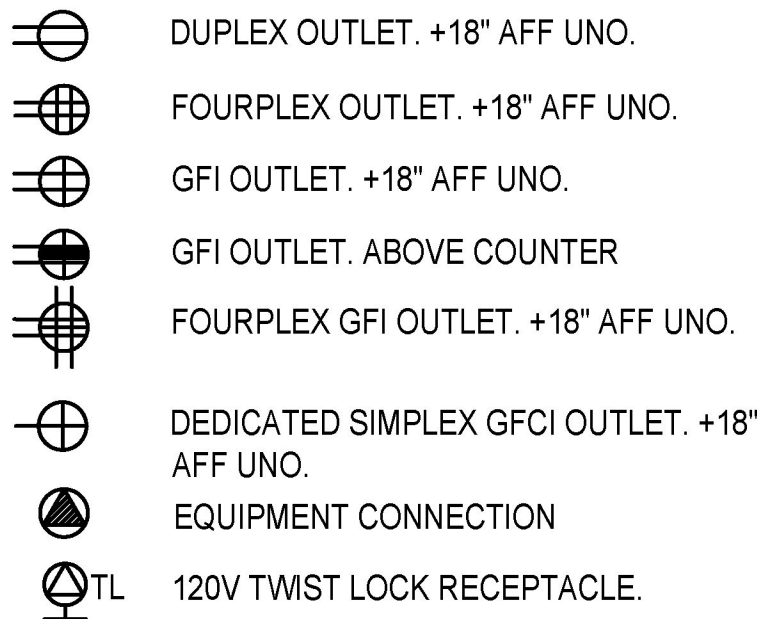


SITE PLAN - JOB TRAILER

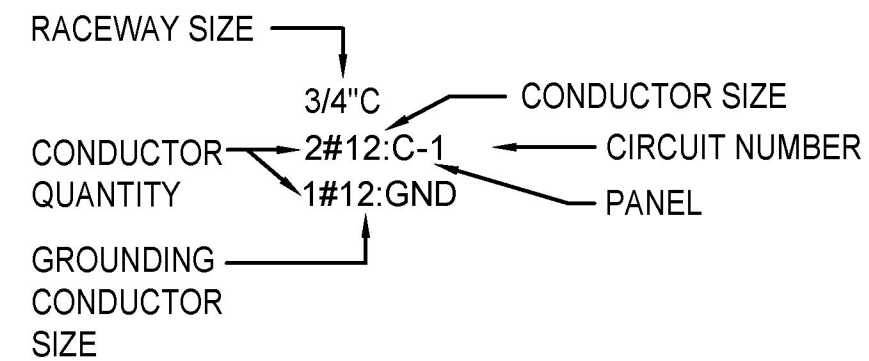
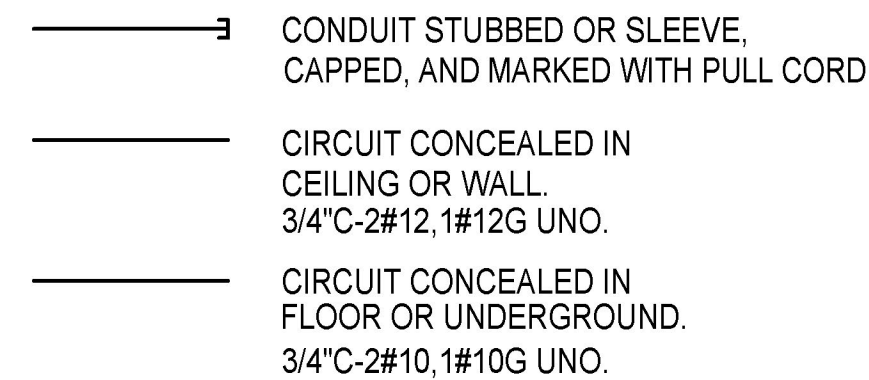
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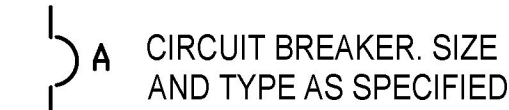
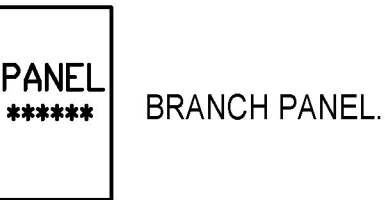
POWER SYSTEM DEVICE SYMBOLS



CIRCUIT WIRING SYMBOLS



ONE-LINE DIAGRAM SYMBOLS



1. COLOR CODE WIRES AS FOLLOWS:

| <u>CONDUCTORS</u> | <u>120/208V</u> | <u>480/277V</u> |
|-------------------|-----------------|-----------------|
| PHASE A | BLACK | BROWN |
| PHASE B | RED | ORANGE |
| PHASE C | BLUE | YELLOW |
| NEUTRAL | WHITE | GRAY |
| GROUND | GREEN | GREEN |

2. ELECTRICAL DEVICES AND LINEWORK ARE SHOWN BOLD FOR NEW, BOLD/DASHED FOR DEMO & RELOCATED AND MEDIUM/DASHED FOR EXISTING.

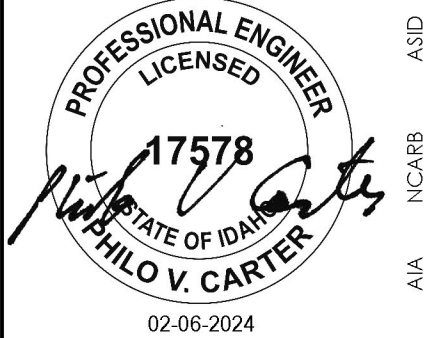
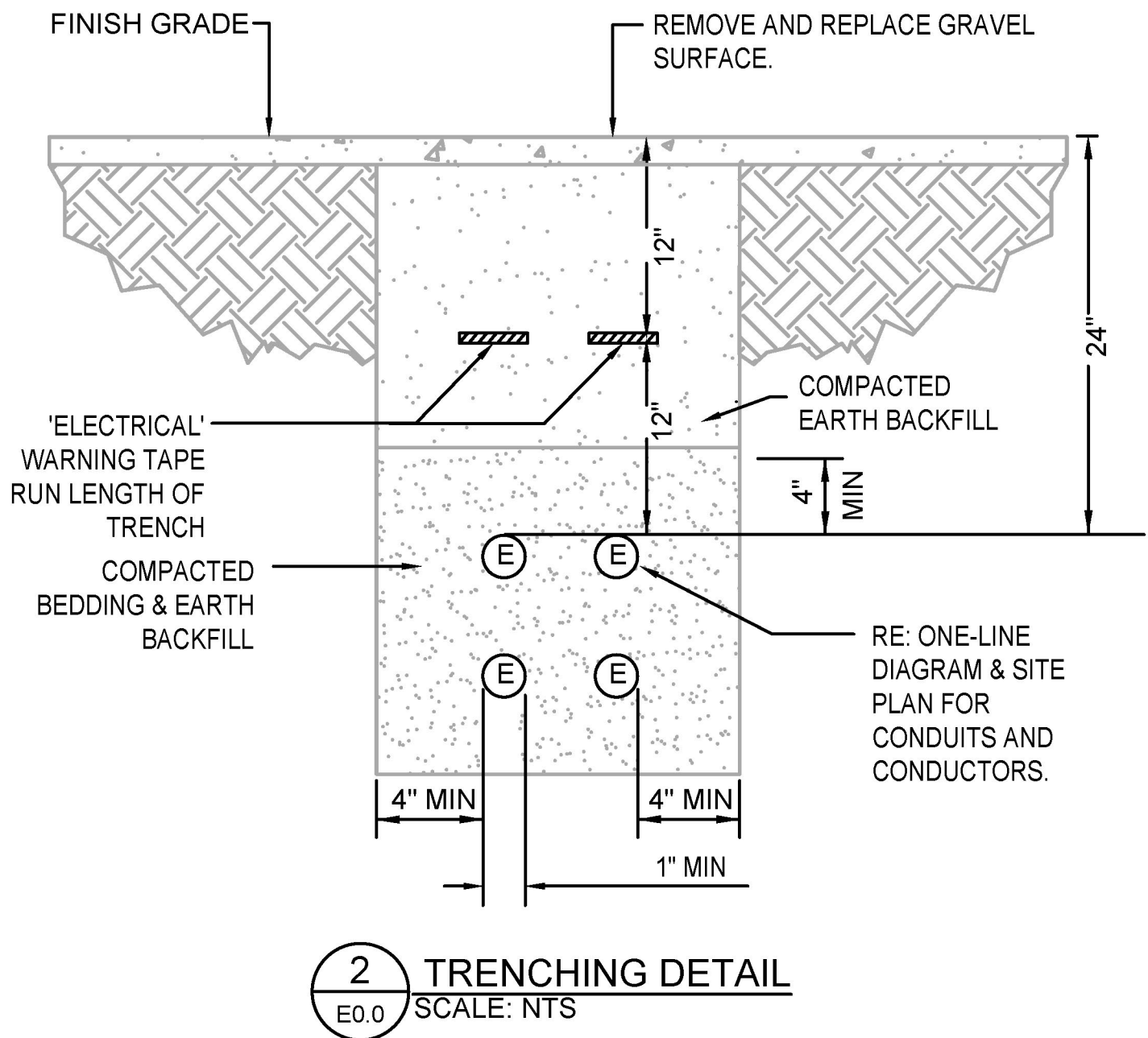
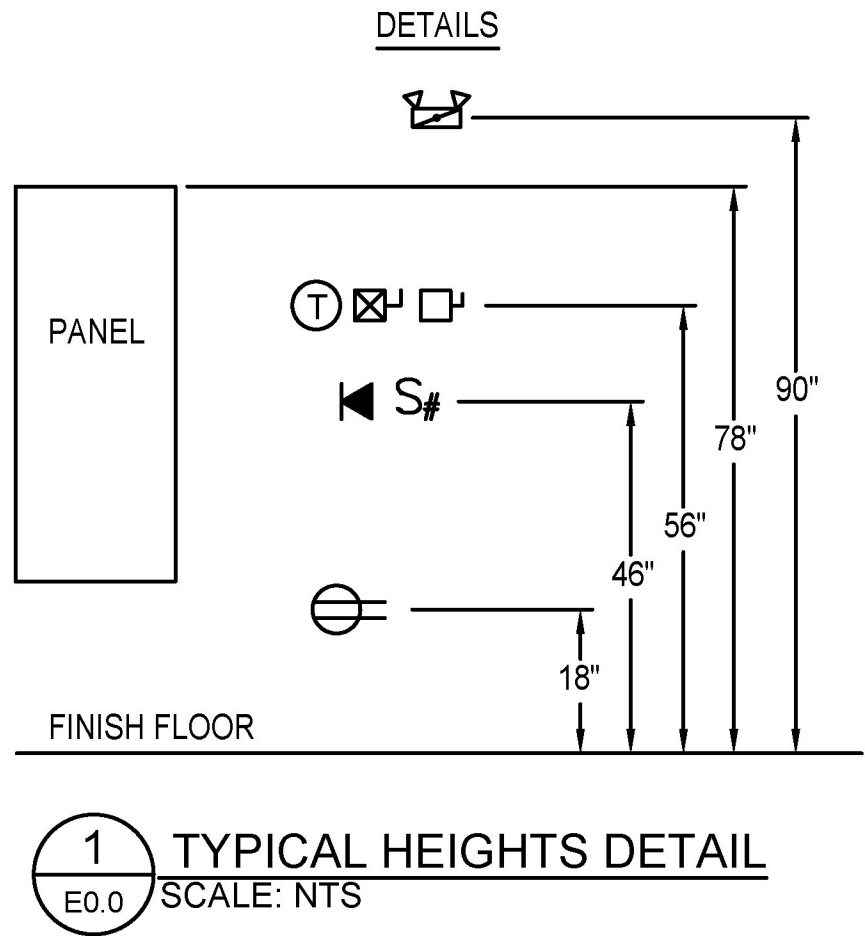
3. DIMENSIONED LENGTHS SHALL TAKE PRECEDENCE OVER SCALED LENGTHS.

4. FURNISH AND INSTALL A COMPLETE ELECTRICAL SYSTEM AS DEPICTED FROM THE PLANS AND SPECIFICATIONS. COMPLETE AS NOTED OR IMPLIED, NOT LIMITED TO WHAT IS SHOWN.

5. COORDINATE ALL DEVICE/EQUIPMENT LOCATIONS AND SPECIFIC REQUIREMENTS WITH MECHANICAL TRADE PRIOR TO ROUGH-IN.

ABBREVIATIONS & DESCRIPTIONS

| | |
|-------|---|
| | AMPERES |
| AC | ABOVE COUNTER; REFER TO ARCHITECTURAL ELEVATIONS FOR REQUIRED HEIGHT. |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| AF | AMPERE FRAME |
| AHJ | AUTHORITY HAVING JURISDICTION |
| AT | AMP TRIP |
| AWG | AMERICAN WIRE GAUGE |
| C | CONDUIT |
| CB | CIRCUIT BREAKER |
| CKT | CIRCUIT |
| CO | CONDUIT ONLY, PROVIDE PULL-LINE |
| Cu | COPPER |
| CW | COLD WATER |
| DC | DIRECT CURRENT |
| DIA | DIAMETER |
| (E) | EXISTING |
| EF | EXHAUST FAN |
| EMT | ELECTRICAL MAGNETIC TUBING |
| F | FUSE |
| FVNR | FULL VOLTAGE NON-REVERSING |
| G/GND | GROUND |
| GFI | GROUND FAULT INTERRUPTION |
| GF | GROUND FAULT PROTECTION |
| HP | HANDHOLE |
| HP | HORSE POWER |
| IC | INTERRUPTING CAPACITY |
| JUB | JUNCTION BOX |
| KAIC | KILO-AMP INTERRUPTING CURRENT |
| KW | KILO-WATT |
| KVA | KILO-VOLT AMPERE |
| MB | MAIN BREAKER |
| MCC | MOTOR CONTROL CENTER |
| MIN | MINIMUM |
| MLO | MAIN LUGS ONLY |
| MS | MOTOR STARTER |
| (N) | NEW |
| N | NEUTRAL |
| NEC | NATIONAL ELECTRICAL CODE |
| NEMA | NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION |
| NTS | NOT TO SCALE |
| OFCI | OWNER FURNISHED CONTRACTOR INSTALLED |
| P | PHASE |
| PC | PHOTOCELL |
| PVC | POLYVINYL CHLORIDE |
| RCPT | RECEPTACLE |
| (R) | RELOCATED |
| RE: | REFER TO |
| RPVC | RIGID PVC (SCHEDULE 80) |
| SER | SERVICE ENTRANCE RATED |
| SPST | SINGLE POLE SINGLE THROW |
| TYP | TYPICAL |
| UG | UNDERGROUND |
| UH | UNIT HEATER |
| UNO | UNLESS NOTED OTHERWISE |
| V | VOLT |
| VA | VOLT AMPERE |
| WP | WEATHER PROOF/NEMA 3R |
| XFMR | TRANSFORMER |



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ELECTRICAL SHEET SPECIFICATIONS

PART 1 - GENERAL

1.1 SCOPE OF WORK

FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT AND PROVIDE ALL ASSOCIATED LABOR REQUIRED AND NECESSARY TO COMPLETE THE WORK INTENDED BY OR INFERRED FROM THIS SHEET SPECIFICATION AND DRAWING PACKAGE, AND ALL OTHER WORK AND OR MISCELLANEOUS ITEMS, NOT SPECIFICALLY MENTIONED, BUT REASONABLY INFERRED FOR A COMPLETE INSTALLATION, INCLUDING ALL ACCESSORIES AND APPURTENANCES REQUIRED FOR TESTING OF THE SYSTEM. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS THAT ALL SYSTEMS BE COMPLETE AND READY FOR OPERATION. THIS PROJECT INCLUDES GENERAL POWER, LIGHTING, AND COMMUNICATIONS SYSTEM RACEWAY. FIRE ALARM SYSTEM, IF REQUIRED, IS TO BE DESIGN/BUILD BY ELECTRICAL CONTRACTOR. COMMUNICATIONS SYSTEM CABLING AND HEAD-END EQUIPMENT IS BY OWNER.

1.2 CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL COMPLY WITH LATEST RULES, CODES AND REGULATIONS, INCLUDING, BUT NOT LIMITED TO THE MOST CURRENT ADOPTED VERSIONS OF OSHA, THE NATIONAL ELECTRICAL CODE, INTERNATIONAL BUILDING AND FIRE CODES, NFPA, AND OTHER APPLICABLE STATE AND LOCAL CODES, LAWS AND REGULATIONS. CODE COMPLIANCE IS MANDATORY. NOTHING IN THESE DRAWINGS AND SPECIFICATIONS PERMITS WORK NOT CONFORMING TO THESE CODES. WHERE WORK IS SHOWN TO EXCEED MINIMUM CODE REQUIREMENTS, COMPLY WITH DRAWINGS AND SPECIFICATIONS.

1.3 LICENSE, FEES AND PERMITS

ELECTRICAL CONTRACTOR IS TO ARRANGE FOR REQUIRED INSPECTIONS AND PAY ALL LICENSE, PERMIT AND INSPECTION FEES.

1.4 CONDITIONS AT SITE

VISIT TO SITE IS REQUIRED OF ALL BIDDERS PRIOR TO SUBMISSION OF BID. ALL BIDDERS WILL BE HELD TO HAVE FAMILIARIZED THEMSELVES WITH ALL DISCERNIBLE CONDITIONS AND NO EXTRA PAYMENT WILL BE ALLOWED FOR WORK REQUIRED BECAUSE OF THESE CONDITIONS, WHETHER SPECIFICALLY MENTIONED OR NOT. LINES OF OTHER SERVICES THAT ARE DAMAGED AS A RESULT OF THIS WORK SHALL PROMPTLY BE REPAIRED AT NO EXPENSE TO THE OWNER TO COMPLETE SATISFACTION OF THE OWNER.

1.5 SAFETY

THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. CONTRACTOR SHALL HAVE AN ESTABLISHED SAFETY PLAN THAT ALL EMPLOYEES ARE TRAINED ON.

1.6 GUARANTEE

GUARANTEE THE INSTALLATION FREE FROM DEFECTS OF WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER DATE OF CERTIFICATE OF FINAL PAYMENT AND PROMPTLY REMEDY ANY DEFECTS DEVELOPING DURING THIS PERIOD, WITHOUT CHARGE.

1.7 SUBSTITUTIONS

WHEREVER POSSIBLE, MORE THAN ONE MANUFACTURER HAS BEEN LISTED FOR VARIOUS ITEMS OF EQUIPMENT, ANY ONE OF WHICH WILL BE ACCEPTABLE. BASE THE BID ON USE OF MATERIALS SPECIFIED. IF, AFTER AWARD OF THE CONTRACT, A SUBSTITUTE IS PROPOSED, THE REQUEST FOR PERMISSION TO SUBSTITUTE SHALL BE ACCOMPANIED WITH A STATEMENT OF THE AMOUNT OF MONEY TO BE RETURNED TO THE CONTRACT IF THE SUBSTITUTION IS PERMITTED. THE OWNER IS THE SOLE JUDGE OF ACCEPTABILITY OF PROPOSED SUBSTITUTIONS, IF A SUBSTITUTE ITEM IS PERMITTED, AND ANY REDESIGN EFFORT IS THEREBY NECESSITATED, THE REQUIRED REDESIGN SHALL BE AT THE CONTRACTOR'S EXPENSE.

1.8 SHOP DRAWINGS AND MATERIALS LISTS

SUBMIT TO THE OWNER, SEVEN (7) COPIES OF COMPLETE SHOP DRAWINGS AND MATERIALS LISTS FOR REVIEW WITHIN FOURTEEN (14) DAYS AFTER AWARD OF CONTRACT, ALL PROPOSED DEVIATIONS FROM SPECIFICATIONS MUST BE CLEARLY LISTED UNDER A PROMINENT HEADING ENTITLED "DEVIATIONS".

1.9 WORKMANSHIP

ONLY QUALITY WORKMANSHIP WILL BE ACCEPTED. HAPHAZARD OR POOR INSTALLATION PRACTICE WILL BE CAUSE FOR REJECTION OF WORK.

1.10 COORDINATION

COORDINATE WORK WITH OTHER TRADES TO AVOID CONFLICT AND TO PROVIDE CORRECT ROUGH-IN AND CONNECTION FOR EQUIPMENT FURNISHED BY OTHER TRADES THAT REQUIRE ELECTRICAL CONNECTIONS. VERIFY EQUIPMENT DIMENSIONS AND REQUIREMENTS WITH PROVISIONS SPECIFIED UNDER THIS SECTION. CHECK ACTUAL JOB CONDITIONS BEFORE FABRICATING WORK. REPORT NECESSARY CHANGES IN TIME TO PREVENT NEEDLESS WORK AND OR DELAYS.

1.11 CUTTING AND PATCHING

ALL CUTTING AND PATCHING REQUIRED FOR WORK OF THIS DIVISION IS INCLUDED HEREIN. COORDINATION WITH GENERAL CONTRACTOR AND OTHER TRADES IS IMPERATIVE.

1.12 SITE CLEANUP

- A. AFTER ALL OTHER WORK HAS BEEN ACCOMPLISHED, CLEAN ALL EXPOSED CONDUIT, FIXTURES, EQUIPMENT AND SUPPORTS. TOUCH UP PAINT ON ANY EQUIPMENT SCRAPPED OR SCRATCHED DURING CONSTRUCTION. DAMAGED EQUIPMENT CAUSED BY THIS CONTRACTOR WILL BE REPLACED.
- B. LEAVE ALL AREAS INVOLVING ELECTRICAL WORK IN A CONDITION SATISFACTORY TO THE OWNER. REMOVE ALL CRATES, CARDBOARD, PACKING MATERIAL, WASTE MATERIAL, AND OTHER DEBRIS LEFT OVER FROM CONSTRUCTION DAILY.

PART 2 - PRODUCTS

2.1 MATERIAL APPROVAL

ALL MATERIALS MUST BE NEW AND BEAR U.L. LABEL. MATERIALS THAT ARE NOT COVERED BY UL TESTING STANDARDS SHALL BE TESTED AND APPROVED BY AN INDEPENDENT TESTING LABORATORY OF A GOVERNMENTAL AGENCY APPROVED BY THE AUTHORITY HAVING JURISDICTION.

2.2 WIRES AND CABLES

- A. CONDUCTORS FOR 600V SYSTEMS AND BELOW SHALL BE STRANDED COPPER (UNLESS NOTED OTHERWISE), #12 AWG MINIMUM.
- B. INSULATION SHALL BE THWN FOR WET LOCATIONS AND THHN FOR DRY LOCATIONS.

2.3 OUTLET BOXES, JUNCTION AND PULL BOXES

- A. OUTLET BOXES SHALL BE GALVANIZED OR CADMIUM PLATED STEEL SIZED AS PER N.E.C. OR AS NOTED. UTILIZE RESIDENTIAL-GRADE PLASTIC HANGER BOXES FOR NETWORK/COMMUNICATIONS CONNECTION POINTS. USE FOUR (4) INCH SQUARE OCTAGON BOX FOR FIXTURES AND TILE TYPE DEVICE BOXES.

2.4 WIRING DEVICES

- A. PROVIDE AND INSTALL ALL WIRING DEVICES WITH COVERPLATES AS NOTED ON THE PLANS. DEVICES AND COVER PLATES SHALL MATCH THE EXISTING COLOR AND TYPE.
- B. DEVICES: WALL SWITCHES AND CONVENIENCE OUTLETS SHALL BE RATED FOR 20-AMP, 125-VOLT (NEMA 5-20 ANSI C73.12 UL 498) SPECIFICATION GRADE DEVICES EXCEPT AS NOTED. RESIDENTIAL GRADE DEVICES ARE NOT PERMITTED.
- C. PROVIDE FACTORY-FABRICATED WIRING DEVICES, IN TYPES, AND ELECTRICAL RATINGS FOR APPLICATIONS INDICATED AND COMPLYING WITH NEMA STDS. PUB. NO. WD1.
- D. PROVIDE WIRING DEVICES (OF PROPER VOLTAGE RATING) AS FOLLOWS:

| MFGR | C.O.'S | 1-POLE | 3-WAY | 4-WAY | W/PILOT |
|---------|--|---------|---------|---------|-----------|
| HUBBELL | 5362 L | 1221 L | 1223 L | 1234 L | 1221-P1 L |
| P&S | 5362 L | 20AC1 L | 20AC3 L | 20AC4 L | 20AC1-CPL |
| LEVITON | 5362 L | 1223 L | 1223 L | 1224 L | |
| E. | <u>COVER PLATES:</u> ALL DEVICES SHALL HAVE COVERPLATES. THEY SHALL HAVE A PLAIN FLAT SURFACE WITH BEVELED EDGES COMPATIBLE WITH THE DEVICE. THE COVER PLATES IN THE SHOP, PARTS, TOOL ROOM AND FIRE RISER ROOM SHALL BE STAINLESS STEEL. COVER PLATES IN ALL OFFICE TYPE AREAS, SHOWROOM, RESTROOM AND HALLWAYS SHALL BE HIGHLY IMPACT RESISTANT (NYLON OR LEXAN) AND SHALL MATCH THE COLOR OF THE ASSOCIATED DEVICE. | | | | |
| F. | <u>EMPTY BOXES:</u> SHALL BE COVERED WITH MATCHING COVERPLATES. PROVIDE HARDWARE AS NEEDED. | | | | |

- G. EXTERIOR DEVICES SHALL BE 20A GFCI TYPE WITH WATERPROOF HIGHLY IMPACT RESISTANT CLEAR WHILE IN USE TYPE COVER.
- H. PIN & SLEEVE RECEPTACLES AND CONNECTORS:
 - 1. 240/120V SINGLE PHASE, 100A, 200A PIN AND SLEEVE RECEPTACLES AND CONNECTORS. COMPLY WITH UL/CSA.
 - a. AVAILABLE PRODUCTS: PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK:
 - i. RUSSELLSTOLE MAXGUARD SERIES
 - ii. APPLETON POWERTITE SERIES
 - iii. APPROVED EQUAL.
 - b. INSTALLATION AND USE: FOLLOW MANUFACTURER'S INSTRUCTIONS AND LISTING REQUIREMENTS.

2.5 WIRE CONNECTORS

- A. FOR WIRE SIZES #8 AWG AND SMALLER: INSULATED PRESSURE TYPE (WITH LIVE SPRING) RATED 105°C, 600V, FOR BUILDING WIRING AND 1000V IN FIXTURES, SCOTCHLOK OR IDEAL.
- B. FOR WIRE SIZES #6 AWG AND LARGER: T&B OR EQUIVALENT COMPRESSION TYPE WITH 3M #33+ OR PLYMOUTH "SLIPKNOT GREY" TAPE INSULATION.

2.6 PANELBOARD

PANELBOARDS SHALL BE AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, SIEMENS, OR EATON/CUTLER HAMMER. PROVIDE PANELBOARDS AS INDICATED ON SCHEDULES, WITH THE FOLLOWING FEATURES: TINNED ALUMINUM BUS (98 PERCENT CONDUCTIVITY), MECHANICAL-TYPE MAIN AND NEUTRAL LUGS, NEUTRAL BUS RATED 100 PERCENT OF PHASE BUS, GROUND BUS BONDED TO ENCLOSURE, BOLT-ON MOLDED-CASE THERMAL-MAGNETIC BREAKERS.

2.7 RACEWAYS

- A. OUTDOORS:

EXPOSED: RIGID STEEL OR INTERMEDIATE METAL CONDUIT CONCEALED: RIGID STEEL OR INTERMEDIATE METAL CONDUIT UNDERGROUND: RIGID NON-METALLIC CONDUIT TO VIBRATING EQUIPMENT: LIQUID-TIGHT FLEXIBLE METAL CONDUIT

- B. INDOORS:

EXPOSED: ELECTRICAL METALLIC TUBING, RIGID STEEL CONDUIT, PVC-COATED RIGID STEEL CONDUIT CONCEALED: ELECTRIC METALLIC TUBING, METAL CLAD (WHERE ALLOWED BY AHJ) DAMP OR WET LOCATIONS: RIGID STEEL CONDUIT TO VIBRATING EQUIPMENT: FLEXIBLE METAL CONDUIT

PART 3 - EXECUTION

3.1 - GENERAL

- A. ELECTRIC SYSTEM LAYOUTS INDICATED ON THE DRAWINGS ARE GENERALLY DIAGRAMMATIC, BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION AND WORK OF OTHER TRADES WILL PERMIT.
- B. CONSULT ALL OTHER DRAWINGS. VERIFY SCALES AND REPORT ANY DIMENSIONAL DISCREPANCIES OR OTHER CONFLICTS TO ARCHITECT BEFORE SUBMITTING BID.
- C. ALL HOME RUNS ARE INDICATED AS STARTING FROM THE DEVICE NEAREST THE PANEL AND CONTINUING IN THE GENERAL DIRECTION OF THAT PANEL. CONTINUE SUCH CIRCUITS TO THE PANEL AS THOUGH THE ROUTES WERE COMPLETELY INDICATED.
- D. AVOID CUTTING AND BORING HOLES THROUGH STRUCTURE OR STRUCTURAL MEMBERS WHEREVER POSSIBLE. OBTAIN PRIOR APPROVAL OF ARCHITECT AND CONFORM TO ALL STRUCTURAL REQUIREMENTS WHEN CUTTING OR BORING THE STRUCTURE IS NECESSARY AND PERMITTED.

3.2 - ELECTRICAL GROUNDING

GROUND ALL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 250. IN ADDITION PROVIDE A SEPARATE GROUND WIRE FOR ALL FEEDERS AND BRANCH CIRCUITS.

3.3 - ELECTRICAL EQUIPMENT INSTALLATION

- A. HEAD ROOM MAINTENANCE: IF MOUNTING HEIGHTS OR OTHER LOCATION CRITERIA ARE NOT INDICATED, ARRANGE AND INSTALL COMPONENTS AND EQUIPMENT TO PROVIDE THE MAXIMUM POSSIBLE HEADROOM.
- B. MATERIALS AND COMPONENTS: INSTALL LEVEL, PLUMB, AND

PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS, UNLESS OTHERWISE INDICATED.

- C. EQUIPMENT: INSTALL TO FACILITATE SERVICE, MAINTENANCE, AND REPAIR OR REPLACEMENT OF COMPONENTS. CONNECT FOR EASE OF DISCONNECTING, WITH MINIMUM INTERFERENCE WITH OTHER INSTALLATIONS.
- D. RIGHT OF WAY: COORDINATE INSTALLATION OF ELECTRICAL DEVICES WITH OTHER TRADES.

3.4 - RACEWAY AND CABLE INSTALLATION RACEWAY:

- A. ABOVE GRADE: RIGID STEEL OR IMC IN WET LOCATIONS, WHERE SUBJECT TO MECHANICAL DAMAGE AND IN CONCRETE OR BLOCK WALLS, EMT IN OTHER LOCATIONS WHERE PERMITTED BY CODE. METAL CLAD ONLY WHERE ALLOWED BY LOCAL AUTHORITY HAVING JURISDICTION.
- B. CONCEAL RACEWAYS AND CABLES WITHIN FINISHED WALLS, CEILINGS, AND FLOORS, UNLESS OTHERWISE INDICATED.
- C. INSTALL RACEWAYS AND CABLES AT LEAST SIX (6) INCHES AWAY FROM PARALLEL RUNS OF FLUES AND STEAM OR HOT-WATER PIPES. LOCATE HORIZONTAL RACEWAY RUNS ABOVE WATER AND STEAM PIPING.
- D. USE TEMPORARY RACEWAY CAPS TO PREVENT FOREIGN MATTER FROM ENTERING.
- E. MAKE CONDUIT BENDS AND OFFSETS SO INSIDE DIAMETER IS NOT REDUCED. KEEP LEGS OF BENDS IN THE SAME PLANE AND STRAIGHT LEGS OFFSETS PARALLEL, UNLESS OTHERWISE INDICATED.
- F. USE RACEWAY FITTINGS AND CABLE FITTINGS COMPATIBLE WITH RACEWAYS AND CABLES AND SUITABLE FOR THIS APPLICATION AND LOCATION.
- G. INSTALL RACEWAYS EMBEDDED IN SLABS IN MIDDLE THIRD OF SLAB THICKNESS WHERE PRACTICAL, AND LEAVE AT LEAST 1-INCH OF CONCRETE COVER.
- H. SECURE RACEWAYS TO REINFORCING RODS TO PREVENT SAGGING OR SHIFTING DURING CONCRETE PLACEMENT.
- I. SPACE RACEWAYS Laterally TO PREVENT VOIDS IN CONCRETE.
- J. INSTALL CONDUIT LARGER THAN 1-INCH TRADE SIZE PARALLEL TO OR AT RIGHT ANGLES TO MAIN REINFORCEMENT. WHERE CONDUIT IS AT RIGHT ANGLES TO REINFORCEMENT, PLACE CONDUIT CLOSE TO SLAB SUPPORT.
- K. TRANSITION FROM NONMETALLIC TUBING TO RIGID STEEL CONDUIT, OR IMC BEFORE RISING ABOVE FLOOR.
- L. MAKE EXPOSED BENDS FOR BANKED RUNS FROM SAME CENTERLINE IN ORDER THAT BENDS ARE PARALLEL. USE FACTORY ELBOWS ONLY WHERE ELBOWS CAN BE INSTALLED PARALLEL; OTHERWISE, PROVIDE FIELD BENDS FOR EXPOSED PARALLEL RACEWAYS.

CABLES:

- A. INSTALL PULL WIRES IN EMPTY RACEWAYS. USE NO. 14 AWG ZINC-COATED STEEL OR MONOFILAMENT PLASTIC LINE WITH NOT LESS THAN 200-LB TENSILE STRENGTH. LEAVE AT LEAST 12-INCHES OF SLACK AT EACH END OF PULL WIRE.
- B. INSTALL TELEPHONE AND SIGNAL SYSTEM RACEWAYS, 2-INCH TRADE SIZE AND SMALLER, IN MAXIMUM LENGTHS OF 150 FEET (45 M) AND WITH A MAXIMUM OF TWO 90-DEGREE BENDS OR EQUIVALENT. SEPARATE LENGTHS WITH PULL OR JUNCTION BOXES WHERE NECESSARY TO COMPLY WITH THESE REQUIREMENTS, IN ADDITION TO REQUIREMENTS ABOVE.
- C. CONNECT MOTORS AND EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT WITH A MAXIMUM OF 72-INCH FLEXIBLE CONDUIT. INSTALL LFMC IN WET OR DAMP LOCATIONS. INSTALL A SEPARATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS.
- D. SET FLOOR BOXES LEVEL AND TRIM AFTER INSTALLATION TO FIT FLUSH TO FINISHED FLOOR SURFACE.
- E. CONDUCTORS: TYPE THHN/THWN INSULATED CONDUCTORS IN RACEWAY.
- F. INSTALL SPLICES AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL AND THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN UNSPLICED CONDUCTORS.
- G. INSTALL WIRING AT OUTLETS WITH AT LEAST 12 INCHES OF

SLACK CONDUCTOR AT EACH OUTLET.

- H. CONNECT OUTLET AND COMPONENT CONNECTIONS TO WIRING SYSTEMS AND TO GROUND. TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS, ACCORDING TO MANUFACTURER'S PUBLISHED TORQUE-TIGHTENING VALUES. IF MANUFACTURER'S TORQUE VALUES ARE NOT INDICATED, USE THOSE SPECIFIED IN UL 486A.

3.5 IDENTIFICATION

- A. PROVIDE ENGRAVED 3 LAYER LAMINATE PLASTIC NAMEPLATES FOR PANELBOARDS, DISCONNECT SWITCHES AND ALL SIMILAR DEVICES.
- B. COLOR-CODE 480/277-VOLT SYSTEM THREE PHASE SERVICE, FEEDERS, AND BRANCH-CIRCUIT CONDUCTORS THROUGHOUT THE SECONDARY ELECTRICAL SYSTEM AS FOLLOWS:
 - 1. PHASE A: BROWN
 - 2. PHASE B: ORANGE
 - 3. PHASE C: YELLOW
 - 4. NEUTRAL: GRAY
 - 5. GROUND: GREEN WITH YELLOW STRIPE
- C. COLOR-CODE 208/120-VOLT SYSTEM THREE PHASE SERVICE, FEEDERS, AND BRANCH-CIRCUIT CONDUCTORS THROUGHOUT THE SECONDARY ELECTRICAL SYSTEM AS FOLLOWS:
 - 1. PHASE A: BLACK
 - 2. PHASE B: RED
 - 3. PHASE C: BLUE
 - 4. NEUTRAL: WHITE
 - 5. GROUND: GREEN

3.7 OPERATING AND MAINTENANCE INSTRUCTIONS (O+M MANUAL)

PREPARE THREE (3) COPIES FOR ALL EQUIPMENT.

3.8 RECORD AS-BUILTS

PROVIDE (1) CLEAN, LEGIBLE COPY OF DRAWINGS TO ENGINEER INDICATING ALL DEVIATIONS FROM INITIAL DESIGN (AS-BUILT CONDITIONS).

3.9 STRUT CHANNEL - MANUFACTURERS

SUBJECT TO COMPLIANCE WITH REQUIREMENTS SET FORTH IN THE DRAWINGS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

- 1. UNISTRUT
- 2. COOPER B-LINE
- 3. ALLIED TUBE & CONDUIT
- 4. THOMAS & BETTS
- 5. WESANCO
- 6. GS GLOBAL METAL
- 7. APPROVED EQUAL

END OF SECTION

PROJECT
NOTICE

ITD D6 SALMON
JOB TRAILER

SALMON, IDAHO

Myers ■ Anderson

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PROFESSIONAL ENGINEER
LICENSED
17578
STATE OF IDAHO
PHILIP V. CARTER
02-06-2024

AIA
NCA&B
ASID

SHEET TITLE:

ELECTRICAL
SPECIFICATIONS

DRAWING SCALE APPLIES
TO 22" X 34" SHEET SIZE

CONTRACTOR SHALL VERIFY
ALL DIMENSIONS & CONDITIONS
SHOWN OR IMPLIED

DO NOT DISTRIBUTE PARTIAL SETS OF
DRAWINGS or SPECIFICATIONS

REVISIONDATE

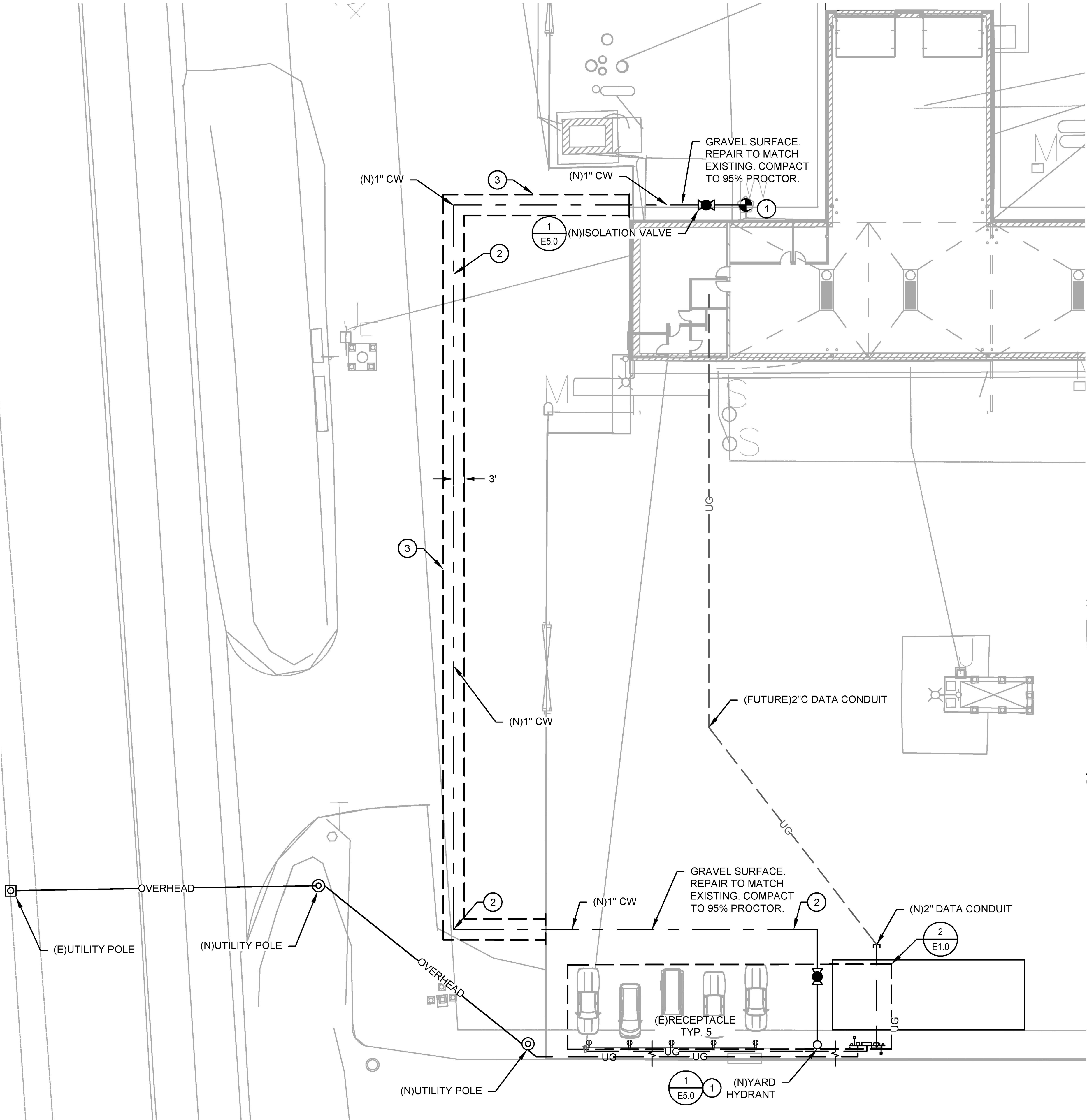
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ARCH.
JOB
NUMBER:23606-23A

SHEET
ISSUED
DATE:February 2024

SHEET
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ELECTRICAL & MECHANICAL PLAN

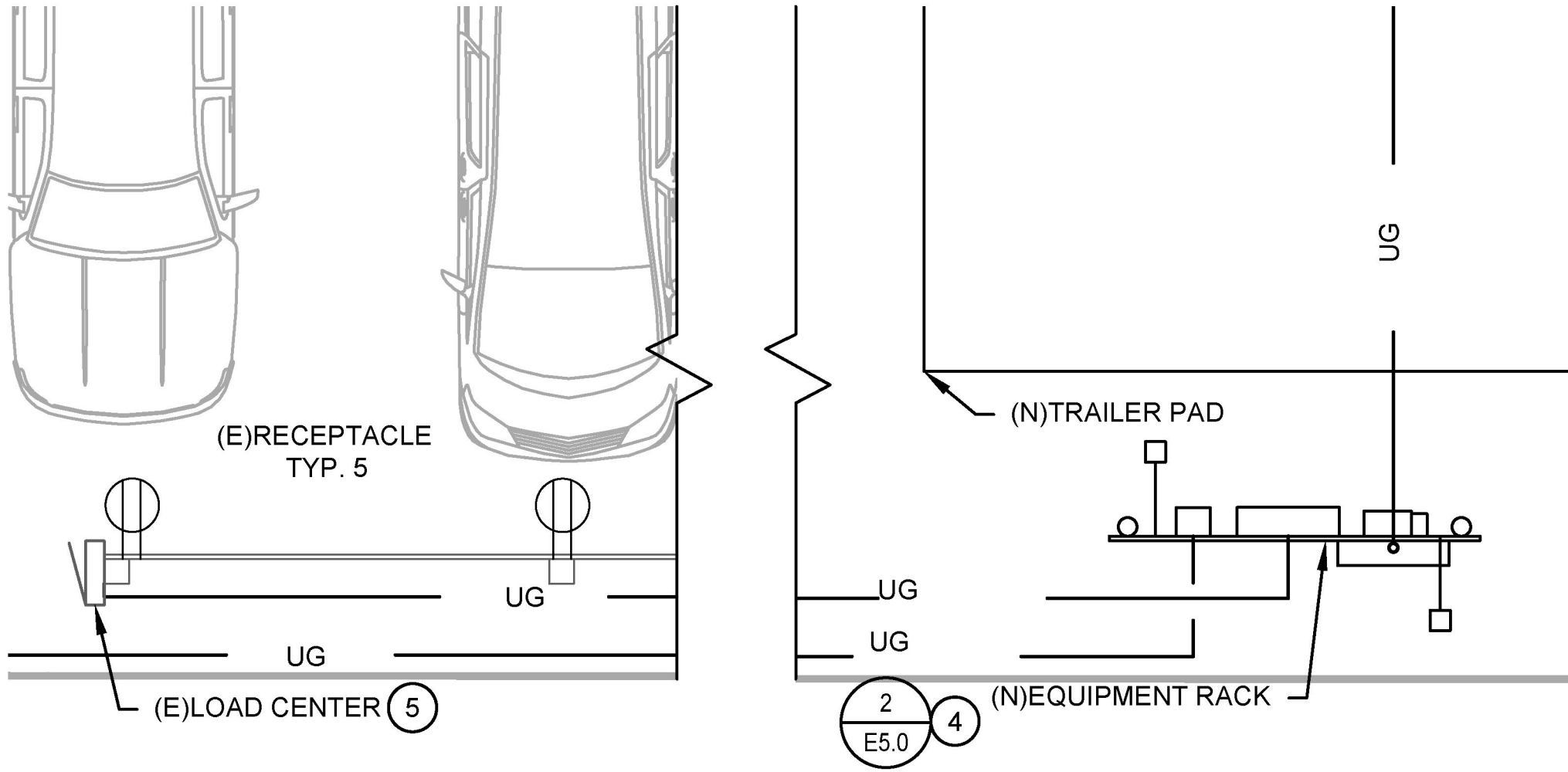
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SHEET NOTES:

- A. ALL OUTDOOR RECEPTACLES ARE TO BE EQUIPPED WITH WEATHERPROOF WHILE-IN-USE COVERS.
- B. MAINTAIN NEC REQUIRED WORKING CLEARANCES FOR ALL PANELS, CABINETS, AND DISCONNECTS.

KEYNOTES:

- CONNECT NEW 1" CW LINE TO EXISTING BUILDING WATER SERVICE ENTERING BUILDING. EXTEND AS SHOWN TO YARD HYDRANT; SEE DETAIL 1/E5.0 FOR YARD HYDRANT INSTALLATION.
- INSTALL 1" SCHEDULE 80 PVC CW LINE @ A DEPTH OF 48" BELOW GRADE IN CLEAN FILL. COMPACT TO 95% PROCTOR UNDER ALL DRIVABLE SURFACES.
- SAW CUT ASPHALT 1' MIN. FROM EDGE OF TRENCH; REPLACE ASPHALT TO MATCH EXISTING FINISH, DEPTH, AND BASE LAYERS.
- GROUND EQUIPMENT PER NEC ART. 250.
- DEMO EXISTING CONDUIT AND CONDUCTORS ABOVE GROUND, RETAIN AND PROTECT EXISTING RECEPTACLE POSTS AND LOAD CENTER, ABANDON CONDUIT AND CONDUCTORS BELOW GRADE, DISCONNECT AT BREAKER IN MAIN BUILDING. RECONNECT EXISTING LOAD CENTER AND OUTLETS TO NEW SERVICE FROM NEW PANEL.



2
E1.0

ENLARGED PLAN

1/4" = 1'

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PROJECT
EXAMINE

ITD D6 SALMON
JOB TRAILER

SALMON, IDAHO

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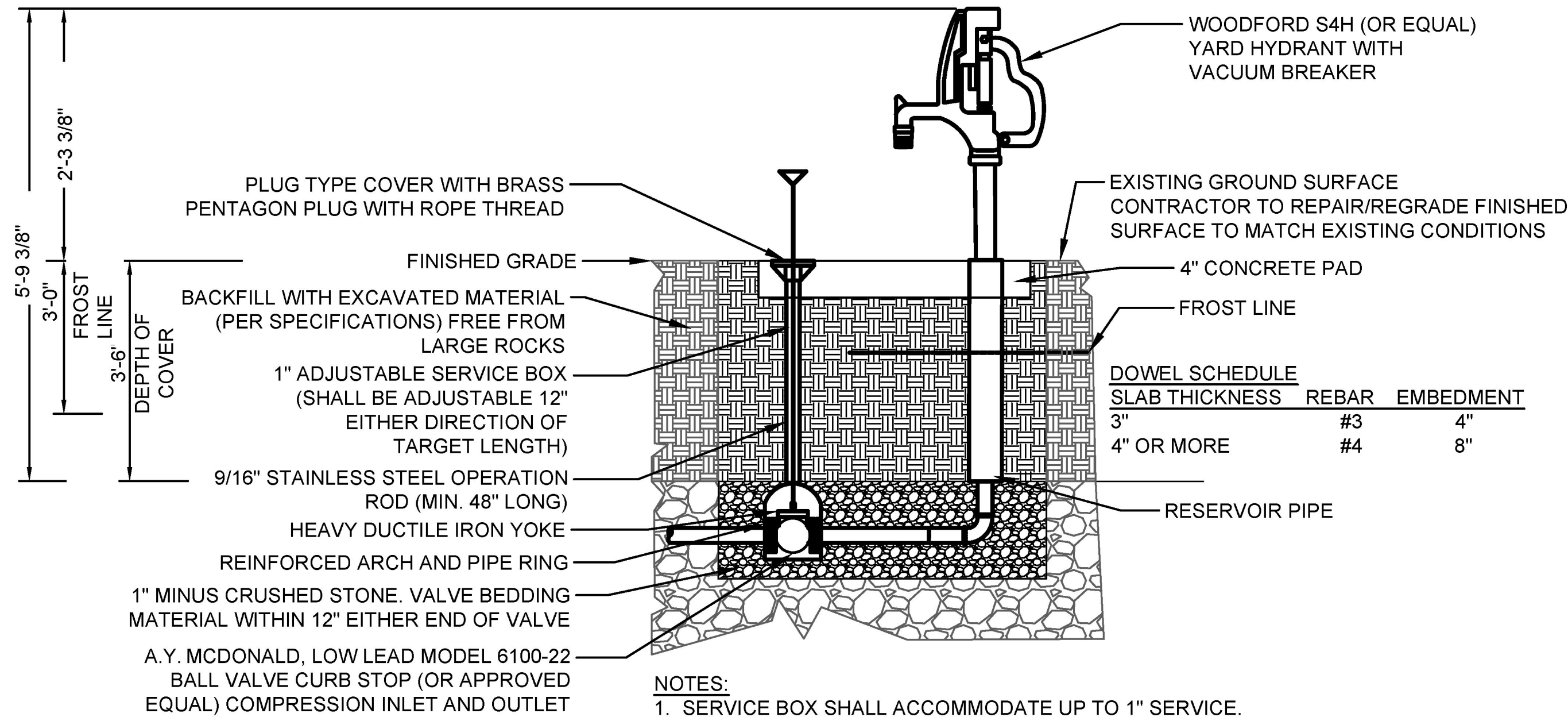
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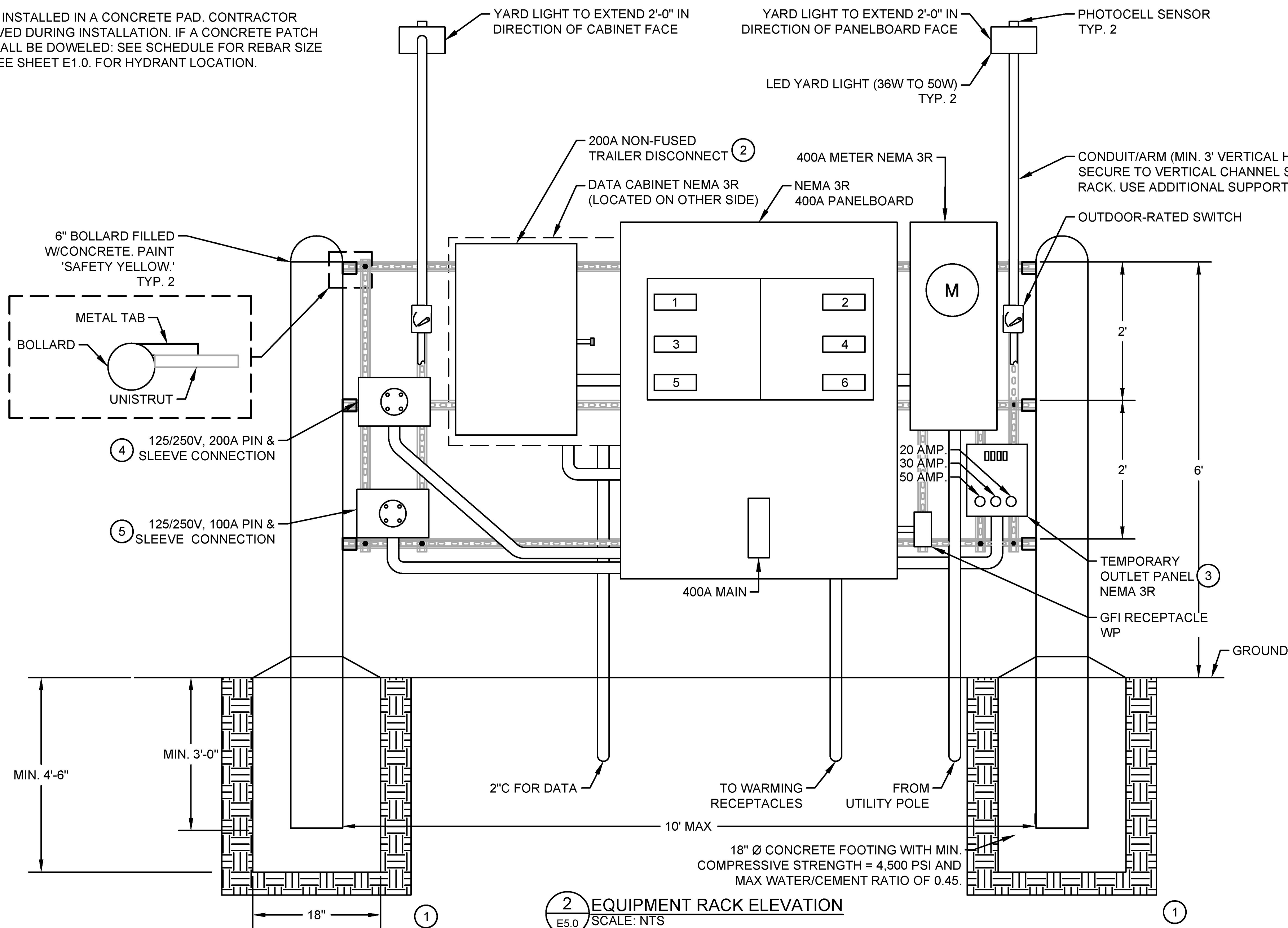
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1 YARD HYDRANT
SCALE: NTS



KEYNOTES: #

- SOIL WAS ASSUMED TO BE SANDY GRAVEL BASED ON INFORMATION PROVIDED BY USDA WEB SOIL SURVEY. A PRESCRIPTIVE LATERAL BEARING PRESSURE OF 200 PSF/FT. PER IBC TABLE 1806.2 WAS USED FOR THE DESIGN. VERIFICATION OF SOIL TO ENSURE ACCURACY OF THE DESIGN IS THE RESPONSIBILITY OF THE CONTRACTOR.
- SQUARE D DTU224NRB DOUBLE-POLE DOUBLE-THROW SWITCH OR EQUAL. NEMA 3R ENCLOSURE REQUIRED.
- VEVOR RV-30A/50A OR EQUAL. NEMA 3R ENCLOSURE REQUIRED.
- APPLETON AJA20033-200 (RECEPTACLE) AND AP20033E (PLUG) ON EQUIPMENT RACK. TRAILER WILL HAVE APPLETON AJA20033-200RS (RECEPTACLE) AND AP20033ERS (PLUG). NEMA 3R ENCLOSURE REQUIRED.
- APPLETON ADJA1022-150 (RECEPTACLE) AND ACP1022CD (PLUG) ON EQUIPMENT RACK. TRAILER WILL HAVE APPLETON ADJA1022-150RS (RECEPTACLE) AND ACP1022CDRS (PLUG). NEMA 3R ENCLOSURE REQUIRED.

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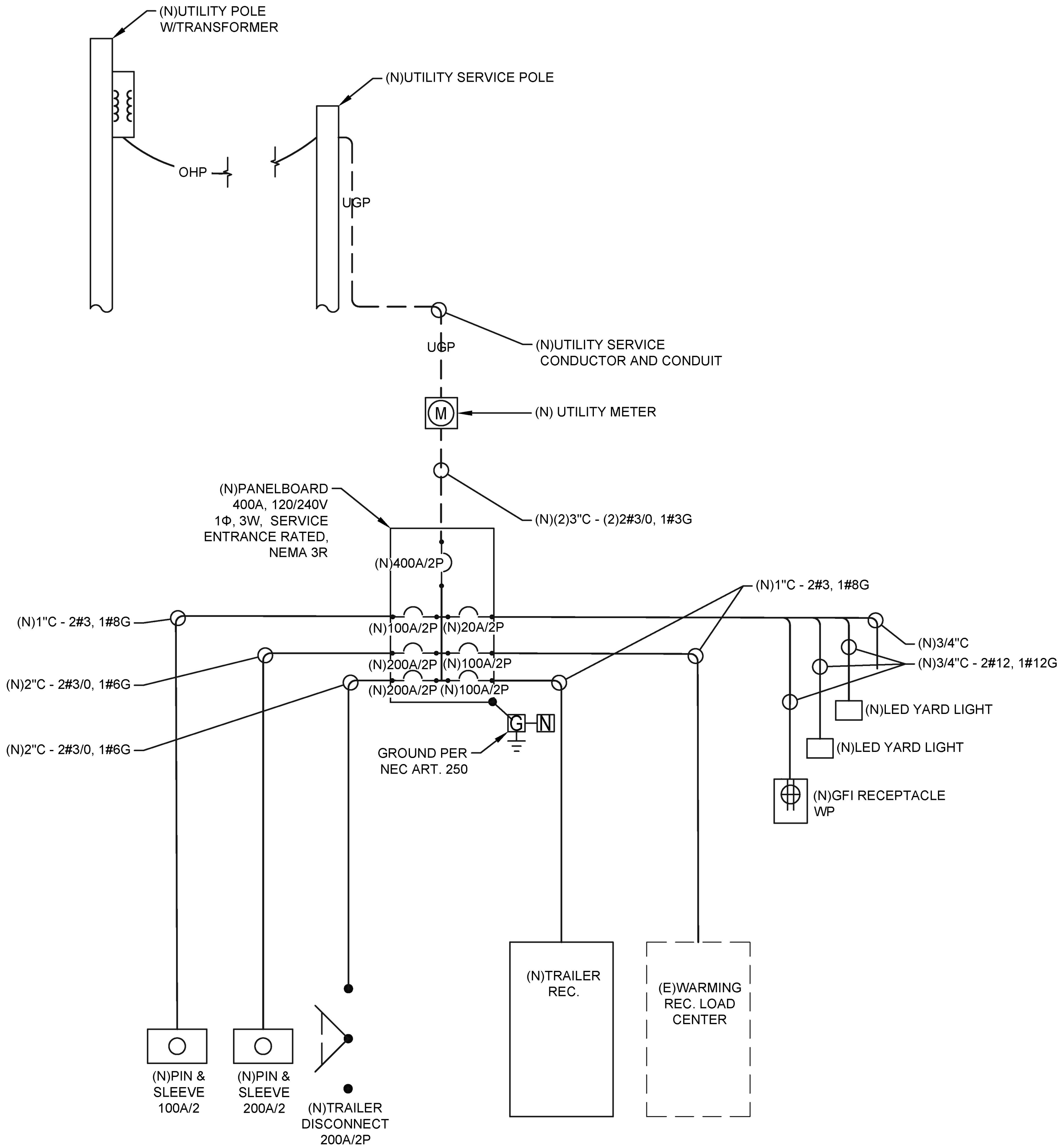
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1 SINGLE-LINE DIAGRAM
E6.0 SCALE: NTS

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