



PURCHASING

October 28, 2024

MEMO TO: Prospective Bidders
FROM: Kimberly Toon, Purchasing Manager
SUBJECT: **Addendum #1:** ITB – Mazarick Park Tennis Center Tennis Sitework
DUE DATE AND TIME: **October 31, 2024; 2:00 p.m.**

1. The Bid Documents are hereby modified per the attached Addendum #1 dated October 28, 2024. To include the following:

a. Questions and Answers

2. The foregoing changes shall be incorporated in the Bid Documents, and a copy of the Addendum #1, signed by the Bidder, must accompany the Bid to indicate the Bidder's familiarity with the changes.

Question: Could you provide drawings: E1, E2, E3?

Answer: The electrical sheets E1.0, E2.0 and E3.0 are attached to addendum 1.

Question: Also, could you clarify on what, "Sheet C2.3" is? This is mentioned on C202/9 & C203/11 on the dumpster pad details.

Answer: It should read C203 as listed on the dumpster pad details.

Question: Is the surveyor information available from the original project?

Answer: Yes. The original survey is attached to addendum 1 as sheet C1.0.

Question: Could you verify the alternates? Alternate #1 is listed on several items on the plans, but it is not clear on whether these are supposed to be added together for 1 total alternate or if these are to be separated.

Answer: Alternate 1 is a single cost and it must include all items related to the construction of the four (4) new clay tennis courts. There are grading requirements as well as sidewalks, trench drains, shade structures, etc. this work is shown on sheets C200A and C300A of the plan set.

Question: In the Building Bid Package, the contract was to cover the building only and nothing outside of the building, and then at the very end, the 1 layer of asphalt was added to the contract requirements. In the site package, the sidewalks and walkway outside of the building are shown to be included within the building package. I mention this, because neither one of these packages cover this area of concrete sidewalks. This area is outlined in C200A and C200. Is this something the owner is going to handle?

Answer: No. The sidewalks and the walkways outside of the building are included in the sitework package. It is reflected on C200 and C200A of the plans.

Question: Does the exhibition court get a curb around it also? (Where there isn't a wall.)

Answer: Yes, the exhibition court will require a curb as shown on sheet C201.

Question: What is the finish of the walls?

Answer: The retaining wall is required to have a smooth rubbed concrete finish. See wall details on sheet C201.

Question: Plan page T4.00...where do these shade structures go? Are they just in the new courts? (alt 1) So a total of 2?

Answer: Yes, only on the new clay courts as a part of the alternate #1. Shade structures are located on sheets T1.0 and T4.0.

Question: Could you confirm whether we are to provide landscaping in our prices or not?

Answer: Yes, landscaping is part of the sitework package and should be included in the bid price. See sheets L5.00, L5.01, L5.02, L5.03 and L5.04.

Question: Given that the site has been sitting, rocks and gravel are exposed on the slopes, should the contractor figure in bringing topsoil on site?

Answer: The contractor will need provide 4" of topsoil material. This will meet the requirements listed in "Soil Preparation" in specification section 329113.

Question: How should the contractor address the existing erosion control devices? Given that the erosion control devices have been sitting in the field, the erosion control devices and wattles, may not be any good when the grading operation begins. Should we figure on new erosion control devices?

Answer: The Contractor will be responsible for maintaining the existing and installing any new erosion control devices as necessary to contain all sediment on the site.

Question: How will the city address the contract time, given that there are 180 calendar days for the contract, yet some work will be contingent on coordinating with the tennis court contractor and the building contractor? How will the city address any delays?

Answer: The selected sitework Contractor will be a part of the scheduling and coordination meetings with the other three contractors on site. If the contractor's approved schedule is delayed because of the impact of another Contractor on site, the sitework Contractor can make a time extension change order request from the City.

Question: Does the City have a contact for the decorative fence contractor that was on the project previously?

Answer: The decorative fence contractor was Elmore Welding, Inc. (919) 584-7460.

Question: Does the city have a list of the subcontractors from the previous contract?

Answer: A list of previous subcontractors is listed below:

1. All Pro Waste Services 910-628-5420
2. Guaranteed Supply Company 910-484-1888
3. R&D Associates of Pembroke 910-521-9310
4. Whiteville Rentals 910-642-6642
5. Ferguson Waterworks 919-594-6028
6. United Rentals
7. McDonald Materials 910-630-2200
8. Concrete Services Company 910-483-0396
9. Carter and Sons Backhoe 910-485-4734
10. Carrera Grading 919-627-2254
11. Moorman, Kizer & Reitzel 910-484-5191
12. A&E Construction 910-449-3152
13. Elmore Welding 919-584-7460
14. Paul D Williams Hauling 910892-1553

Question: Does the City know the company that staked out the project previously?

Answer: The original surveyor is Moorman, Kizer & Reitzel, Inc, their information is available on the as built storm drainage sheet C300R.

Question: Is the exhibition court part of the project scope?

Answer: Yes, see sheets C201, C202 and C203 for the details for this court. Tennis sheets T1.0 thru T4.0 are provided as well.

Question: Are there any certifications needed for the Clay tennis courts or can this be performed by the site contractor? Are there any specifications on the type of clay used on the courts?

Answer: The clay court specifications are provided in the attached specification section 32 8032” Subsurface Irrigated Fast Dry Tennis Court.” The Hydro Court system must be installed by an authorized contractor of Hydro Court.

Question: Are the shade structures part of this contract?

Answer: Yes, two shade structures which are included in alternate 1 are the only ones in this contract.

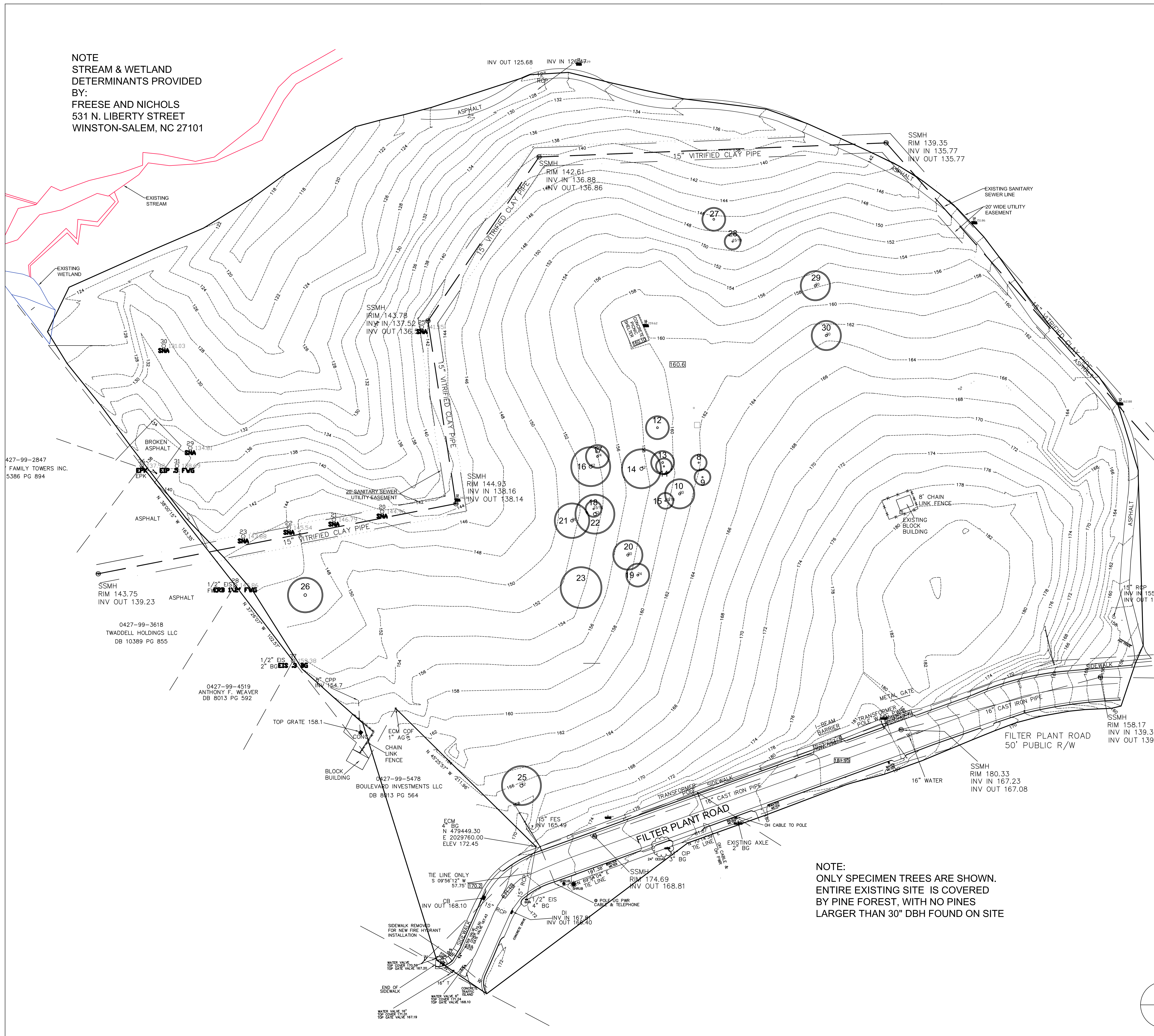
Bidder Acknowledgement:

Bidder Name (Print): _____

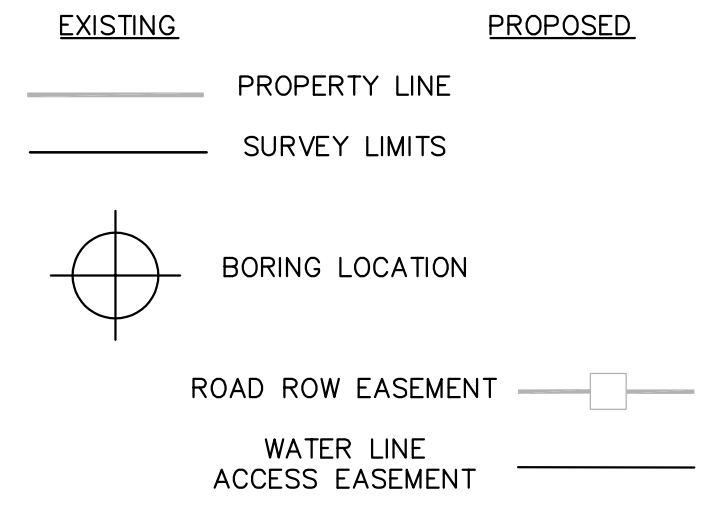
Bidder Signature: _____

Date of Signature: _____

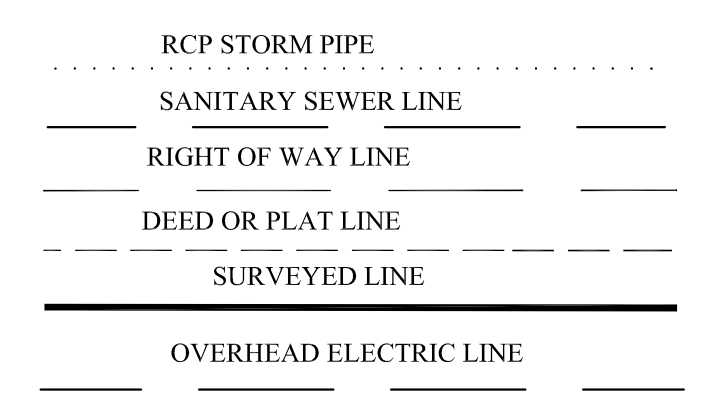
NOTE
 STREAM & WETLAND
 DETERMINANTS PROVIDED
 BY:
 FREESE AND NICHOLS
 531 N. LIBERTY STREET
 WINSTON-SALEM, NC 27101



EXISTING PLAN LEGEND



SURVEY LEGEND



○ HARDWOOD TREE
 (SOUTHERN RED OAK OR POST OAK,
 SEE TREE LIST ON DRAWING C101)

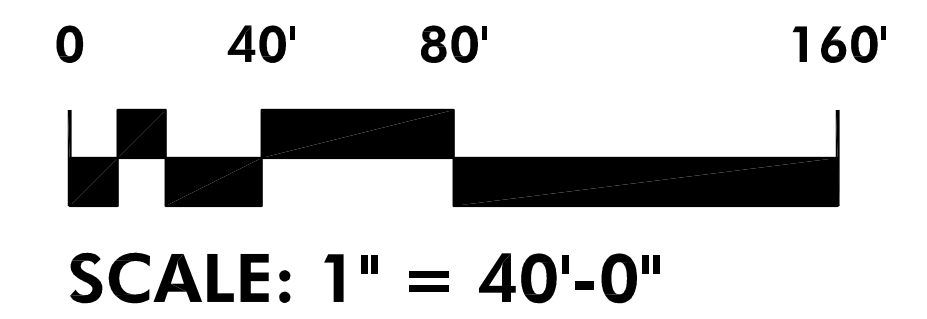
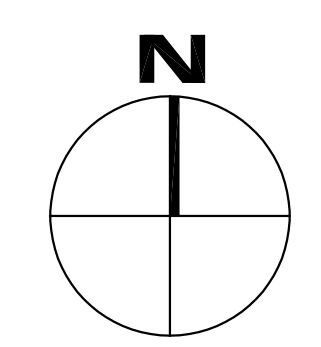
SURVEY NOTES:

1. BEARINGS BASED ON NC GRID NAD 83 (2011) FROM GPS
 2. ALL DISTANCES SHOWN ARE HORIZONTAL GROUND, GRID FACTOR IS 0.9998704.
 3. AREA BY COORDINATES.
 4. SUBJECT TO ANY EASEMENTS OF RECORD.
- REFERENCE:
 PLAT BOOK 11 PAGE 4
 PLAT BOOK 17 PAGE 32
 PLAT BOOK 21 PAGE 23
 PLAT BOOK 24 PAGE 9

GENERAL NOTES:

1. TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CITY OF FAYETTEVILLE, DATED 5-12-21.
2. PRIOR TO BIDDING ON WORK AT THE SITE, THE CONTRACTOR SHALL VISIT THE SITE TO FIELD VERIFY THE EXISTING CONDITIONS.
3. PRIOR TO START OF WORK CONTRACTOR SHALL MEET WITH OWNER, ARCHITECT, & ENGINEER FOR A PRE-CONSTRUCTION MEETING.
4. NO WORK SHALL TAKE PLACE ON THE SITE UNTIL THE CONTRACTOR HAS CONTACTED NORTH CAROLINA 811 CENTER TO LOCATE UTILITIES.
5. ANY INTERRUPTION OF UTILITY SERVICE SHALL BE APPROVED AT LEAST 72 HOURS PRIOR TO WORK IN THAT AREA.
6. ANY SIGNIFICANT CHANGES IN ACTUAL SITE CONDITIONS FROM THOSE SHOWN ON THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.
7. ALL EXISTING WALKS, PAVEMENT, CURB, ETC. WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO MATCH EXISTING CONDITIONS.
8. ALL EXISTING FENCING, PAVEMENT, ETC. THAT IS REMOVED BY THE CONTRACTOR SHALL BE DISPOSED OF PROPERLY.
9. PROVIDE POSITIVE DRAINAGE AWAY FROM NEW AND EXISTING BUILDINGS.
10. CONTRACTOR STAGING AREAS SHALL BE RETURNED TO ORIGINAL CONDITION AT THE COMPLETION OF ALL WORK.
11. RESEED ALL DISTURBED AREAS AT COMPLETION OF ALL WORK.
12. ADJUST ALL EXISTING & NEW UTILITIES TO BE FLUSH WITH FINISHED GRADES, TYPICAL.
13. USE PAVEMENT PATCHING DETAIL FOR ALL UTILITY CUTS THROUGH EXISTING ASPHALT.
14. SAWCUT EXISTING ASPHALT ADJACENT TO PAVEMENT PATCHING.
15. NO 100-YEAR FLOOD PLAIN AS MAPPED BY F.E.M.A. OR AS DEFINED BY ANY FEDERAL, STATE, OR LOCAL AUTHORITY IS LOCATED ON THIS PROPERTY.

NOTE:
 ONLY SPECIMEN TREES ARE SHOWN.
 ENTIRE EXISTING SITE IS COVERED
 BY PINE FOREST, WITH NO PINES
 LARGER THAN 30" DBH FOUND ON SITE



222 cloister court
 chapel hill, nc 27514
 919.401.8586
 www.cra-ae.com



**Mazarick Park
 Tennis Center**
 730 Filter Plant Road
 Fayetteville, North Carolina



no. revisions

The use of these plans and specifications shall be restricted to the original use and purpose for which they were prepared and shall not be used for any other purpose without the written consent of the engineer of record.

drawn: dlb checked: mlh

Existing Conditions Plan

sheet **C100**

date: 1/17/22 project no.: 2102

ELECTRICAL SPECIFICATIONS

- 1.0 GENERAL:
1.1 PROVIDE ALL WORK, EQUIPMENT, SERVICES, LABOR, AND MATERIALS FOR THE CONSTRUCTION OF NEW ELECTRICAL SYSTEMS AS DESCRIBED OR IMPLIED BY THE CONTRACT DOCUMENTS.
1.2 THE DRAWINGS ARE DIAGRAMMATIC AND NOT INTENDED TO INCLUDE EVERY DETAIL OF CONSTRUCTION, MATERIALS, AND EQUIPMENT. TAKE ACTUAL FIELD MEASUREMENTS AT THE JOB SITE IN LIEU OF SCALING THE DRAWINGS.
1.3 REVIEW THE CONTRACT DOCUMENTS OF ALL TRADES AND COORDINATE ALL WORK WITH THE OTHER TRADES AS NECESSARY TO AVOID CONFLICTS AND INTERFERENCES.
1.4 ALL WORK AND MATERIALS SHALL COMPLY WITH APPLICABLE STATE, LOCAL, AND NATIONAL CODES (INCLUDING OSHA), COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND THESE SPECIFICATIONS SHALL BE THE MINIMUM STANDARD OF ACCEPTANCE.
1.5 OBTAIN AND PAY FOR ANY AND ALL REQUIRED PERMITS.
1.6 LOCATIONS INDICATED FOR OUTLETS, EQUIPMENT, ETC., ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR, BY INSTRUMENTATION ON THE DRAWINGS.
1.7 PROVIDE ONLY NEW MATERIALS AND EQUIPMENT LISTED AND LABELED (FOR THE USE INTENDED) BY AN APPROVED THIRD PARTY LABORATORY SERVICE SUCH AS UNDERWRITER'S LABORATORIES, INC.
1.8 SUBMIT SHOP DRAWINGS AND CATALOG DATA ELECTRONICALLY FOR LIGHT FIXTURES, GEAR AND PANELBOARDS, DEVICES, AND ALL SPECIAL SYSTEMS.
2.0 CONDUCITS:
2.1 ALL ABOVE GRADE INTERIOR CONDUIT SHALL BE ZINC-COATED EMT WITH COMPRESSION CONNECTORS.
2.2 ALL CONDUIT INSTALLED UNDERGROUND SHALL BE SCHEDULE 40 PVC ELBOWS AND STUB-UPS WHERE CONDUIT TRANSITIONS TO ABOVE SLAB IN BUILDINGS SHALL BE GALVANIZED RIGID STEEL WITH ASPHALTUM COATING. ALL ABOVE GRADE EXTERIOR CONDUIT SHALL BE SCHEDULE 40 PVC.
3.0 WIRING:
3.1 CONDUCTORS SHALL BE COPPER, THHN/THWN, SOLID FOR #10 AWG OR #12 AWG, AND STRANDED FOR ALL LARGER SIZES. ALL CONDUCTORS SHALL BE COLOR-CODED.
3.2 ALL CONDUCTORS AND CABLES SHALL BE INSTALLED IN CONDUITS AND TESTED FOR CONTINUITY AND GROUND BEFORE BEING ENERGIZED.
3.3 PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR WITH EVERY CIRCUIT. NO CONDUIT SHALL CONTAIN MORE THAN THREE PHASE CONDUCTORS.
3.4 ALL CONDUIT SHALL BE ROUTED OUTSIDE OF COURT PERIMETER EXCEPT WHERE SERVING RECEPTACLES AND DATA LOCATIONS IN THE COURT AREA.
3.5 ALL UNDERGROUND CONDUIT SHALL BE INSTALLED WITH LONG RADIUS FIELD BENDS. PROVIDE ADDITIONAL HANDHOLES AS REQUIRED WHERE TOTAL BENDS EXCEED 360 DEGREES.
3.6 ALL UNDERGROUND CONDUIT SHALL BE SEALED WATER TIGHT. PROVIDE SPACERS IN TRENCHES WITH MULTIPLE CONDUITS.
3.7 PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.
4.0 DEVICES:
4.1 ALL WIRING DEVICES SHALL BE HEAVY DUTY SPECIFICATION GRADE, HUBBELL, ARROW HART, OR APPROVED EQUAL.
RECEPTACLES SHALL BE HEAVY DUTY SPECIFICATION GRADE. GROUNDING TYPE ARRANGED FOR SIDE AND BACK WIRING WITH SEPARATE SINGLE OR DOUBLE GROUNDING TERMINALS. RECEPTACLES SHALL BE STRAIGHT BLADE RATED 20 AMPERES, 125 VOLT.
4.2 EXTERIOR RECEPTACLES SHALL HEAVY DUTY CAST ALUMINUM WHILE IN USE. MET UCLATION COVERS.
5.0 LIGHTING EQUIPMENT:
5.1 LIGHT FIXTURES SHALL BE PROVIDED IN ACCORDANCE WITH THE LIGHT FIXTURE SCHEDULE AND SHALL INCLUDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION.
6.0 POWER EQUIPMENT:
6.1 208Y/120V PANELBOARDS (UP TO 225A) OR 480Y/277V LIGHTING PANELBOARDS SHALL BE DEAD-FRONT SAFETY TYPE WITH FULL HEIGHT, COPPER BUSSING AND A NOMINAL 20 INCHES WIDE CABINET. ALL CIRCUIT BREAKERS SHALL BE MOULDED CASE, BOLT-ON, AUTOMATIC THERMAL MAGNETIC TYPE, CALIBRATED FOR 40 DEGREES C, AMBIENT COMPENSATING.
6.2 BRANCH DEVICES SHALL BE OF THE QUANTITY, AMPERE RATING, AND POLES SHOWN ON THE DRAWINGS. BRANCH DEVICES SHALL BE OF THE CIRCUIT BREAKER TYPE AND SHALL BE QUICK-MAKE, QUICK-BREAK, AND TRIP INDICATING. THE MINIMUM INTERRUPTING RATING SHALL BE 65KA RMS SYMMETRICAL (UNLESS INDICATED OTHERWISE). SERIES RATING OF CIRCUIT BREAKERS IS NOT ACCEPTABLE.
6.3 SAFETY SWITCHES SHALL BE HEAVY DUTY, QUICK-MAKE, QUICK-BREAK, TYPES OF THE SIZE AND FUSE AMPACITY AS DENOTED ON THE DRAWINGS. PROVIDE GROUND BUS, SOLID NEUTRAL (WHEN REQUIRED), CLASS RK-5 DUAL ELEMENT TIME DELAY FUSES, REJECTION TYPE FUSE HOLDERS, AND NEMA RATED ENCLOSURE. SWITCHES SHALL HAVE TOOL DEFEATABLE DOOR INTERLOCKS.
6.4 DISCONNECT SWITCHES SHALL BE SQUARE D, SIEMENS, GE, Eaton OR APPROVED EQUAL.
7.0 ELECTRICAL IDENTIFICATION:
7.1 EQUIPMENT IDENTIFICATION LABELS SHALL BE ENGRAVED PLASTIC LAMINATE. INSTALL ON EACH UNIT OF EQUIPMENT, INCLUDING CENTRAL OR MASTER UNIT OF EACH SYSTEM. THIS INCLUDES POWER, LIGHTING, COMMUNICATION, SIGNAL, AND ALARM SYSTEMS, UNLESS UNITS ARE SPECIFIED WITH THEIR OWN SELF-EXPLANATORY IDENTIFICATION. UNLESS OTHERWISE INDICATED, PROVIDE A SINGLE LINE OF TEXT WITH 1/2-INCH-HIGH LETTERING ON 1-1/2-INCH-HIGH LABEL. WHERE TWO LINES OF TEXT ARE REQUIRED, USE LABELS 2 INCHES HIGH. USE WHITE LETTERING ON BLACK FIELD. APPLY LABELS USING MECHANICAL FASTENERS.
7.2 CIRCUIT IDENTIFICATION LABELS SHALL BE INSTALLED ON BOXES AND DEVICE COVER PLATES. INSTALL LABELS EXTERNALLY USING PRESSURE-SENSITIVE, SELF-ADHESIVE LABELS. LABEL SHALL LIST PANEL AND CIRCUIT NUMBER OR EQUIVALENT.

CONDUIT AND CABLE SCHEDULE table with columns: SYMBOL, MINIMUM SIZE, CONDUCTORS AND CONDUIT, and rows for various conductor sizes and types like 50A, 60Y, 100Y, etc.

GENERAL ELECTRICAL NOTES:

- 1. THE CONTRACTOR SHALL VERIFY EQUIPMENT NAMEPLATE INFORMATION BEFORE INSTALLING CONDUIT, WIRING, CIRCUIT BREAKERS, DISCONNECT SWITCHES OR FUSES.
2. IN THE EVENT THE CONTRACTOR CHOOSES TO USE PRODUCTS OTHER THAN THE BASIS OF DESIGN, HE ASSUMES FULL RESPONSIBILITY FOR COORDINATION AND INTEGRATION OF SUCH ITEMS. THE FUNCTIONAL DESIGN INTEGRITY OF ALL SYSTEMS AND COMPONENTS SHALL BE MAINTAINED. VOLTAGES, LOADS, WIRE SIZES AND QUANTITIES, DISCONNECT SWITCHES AND FUSE SIZES, PHYSICAL SIZE, LOCATIONS, CLEARANCES, ETC. SHALL BE FULLY COORDINATED BY THE ELECTRICAL CONTRACTOR AND SHALL BE HIS RESPONSIBILITY. ANY ADDITIONAL COST RESULTING FROM SAID SUBSTITUTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
3. ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE, HAVE A GROUND BAR, A NEUTRAL BAR AND TOOL DEFEATABLE INTERLOCKS.
4. COORDINATE ANY AND ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION SO AS TO AVOID CONFLICT DURING CONSTRUCTION.
5. ALL PANELS SHALL HAVE TYPED, COMPLETED DIRECTORIES INDICATING EQUIPMENT SERVED & LOCATION, OR SPARE, OR SPACE.
6. THE CONTRACTOR SHOULD READ AND UNDERSTAND THE ENTIRE SET OF CONSTRUCTION DOCUMENTS WHICH INCLUDES BUT IS NOT LIMITED TO THE SPECIFICATIONS, ARCHITECTURAL, CIVIL, STRUCTURAL, AND ALL ENGINEERING DRAWINGS, SO THAT HE MAY UNDERSTAND THE FULL SCOPE OF WORK AND CONVEY THE PROPER REQUIRED MATERIALS AND METHODS OF INSTALLATION TO THE ESTIMATORS, SUPPLIERS AND INSTALLERS.
7. THE CONTRACTOR SHALL INSPECT AND OBSERVE THE EXISTING SITE CONDITIONS PRIOR TO BEGINNING WORK AND SHALL PROVIDE AND INSTALL FIXTURES, DEVICES AND EQUIPMENT IN A MANNER TO ACCOMMODATE THESE EXISTING CONDITIONS.
8. ALL ELECTRICAL EQUIPMENT AND WIRING SHALL BE 75 DEG. RATED.
9. FINAL LOCATIONS OF ALL POWER DEVICES SHALL BE COORDINATED WITH FINAL EQUIPMENT PLAN PRIOR TO ROUGH-IN OF ANY LOCATIONS.
10. ALL EXTERIOR CONDUIT ROUTINGS SHOWN ARE DIAGRAMMATIC AND FOR CONTRACTOR INFORMATION. ANY PATHWAYS INSTALLED SHALL MEET ALL CURRENT NEC AND ALL BUILDING CODE REQUIREMENTS. CONTRACTOR SHALL FIELD LOCATE AND PROTECT ALL EXISTING UNDERGROUND UTILITIES. EXTERIOR CONDUIT SHALL BE MARKED WITH DETECTABLE IDENTIFICATION TYPE INSTALLED 12" ABOVE CONDUIT.

LIGHT FIXTURE SCHEDULE

LIGHT FIXTURE SCHEDULE table with columns: TYPE, PRODUCT IMAGE, MANUFACTURER, MODEL NUMBER, LAMPING, VOLTAGE, VA, and FIXTURE DESCRIPTION. Includes types B1, B3, C1, and C4.

ELECTRICAL SYMBOLS

ELECTRICAL SYMBOLS table with columns: SYMBOL and DESCRIPTION. Lists symbols for circuit breakers, switches, and other electrical components.

ELECTRICAL ABBREVIATIONS

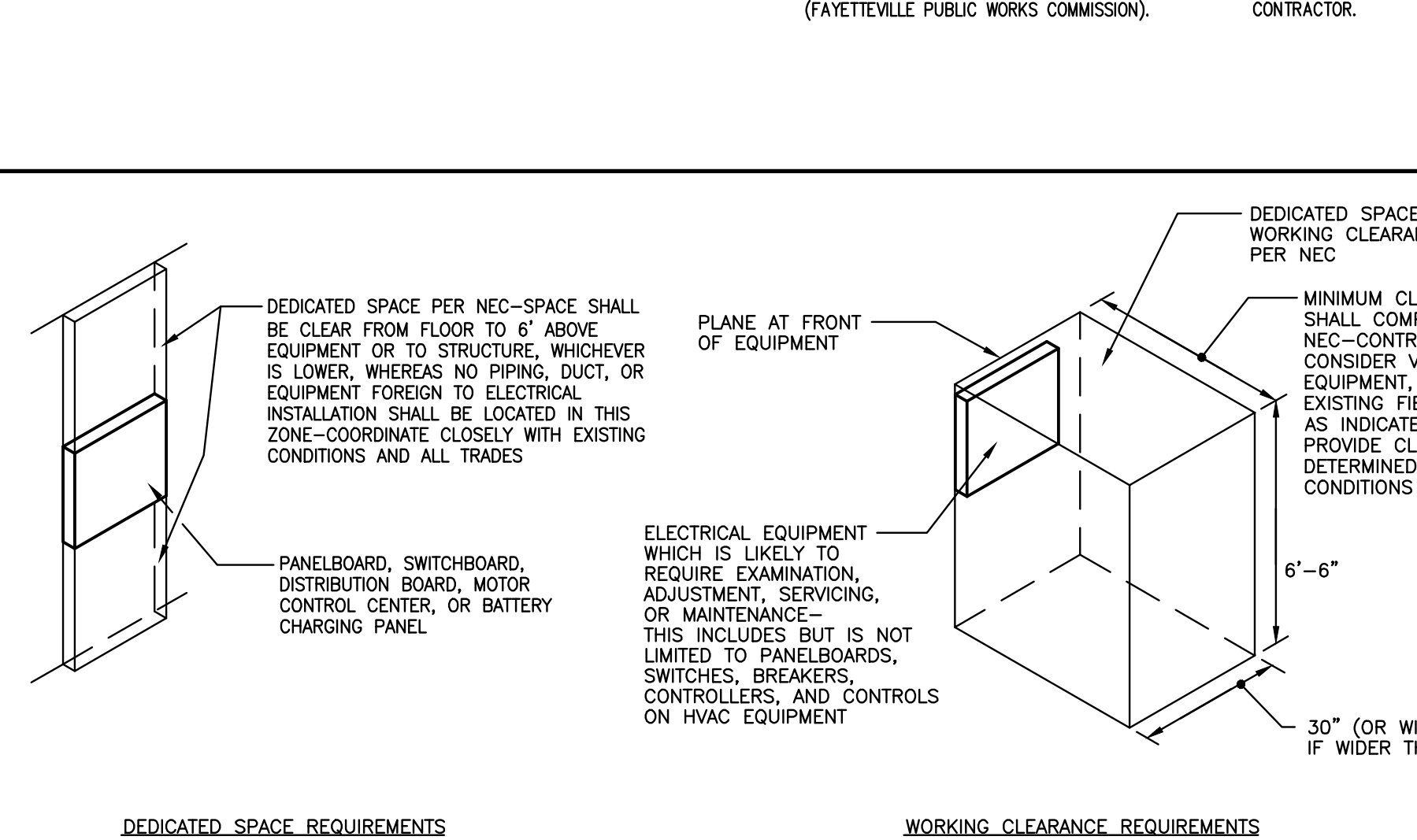
ELECTRICAL ABBREVIATIONS table with columns: ABBREVIATION and DESCRIPTION. Lists abbreviations for various electrical terms and symbols.

NEW PANEL 'SDPH' table with columns: CTY, LOAD, DESCRIPTION, COND, EGGI, N, W, CB, W, N, EGGI, COND, DESCRIPTION, LOAD, CTY. Includes a 'FEED THROUGH DEVICE' section at the bottom.

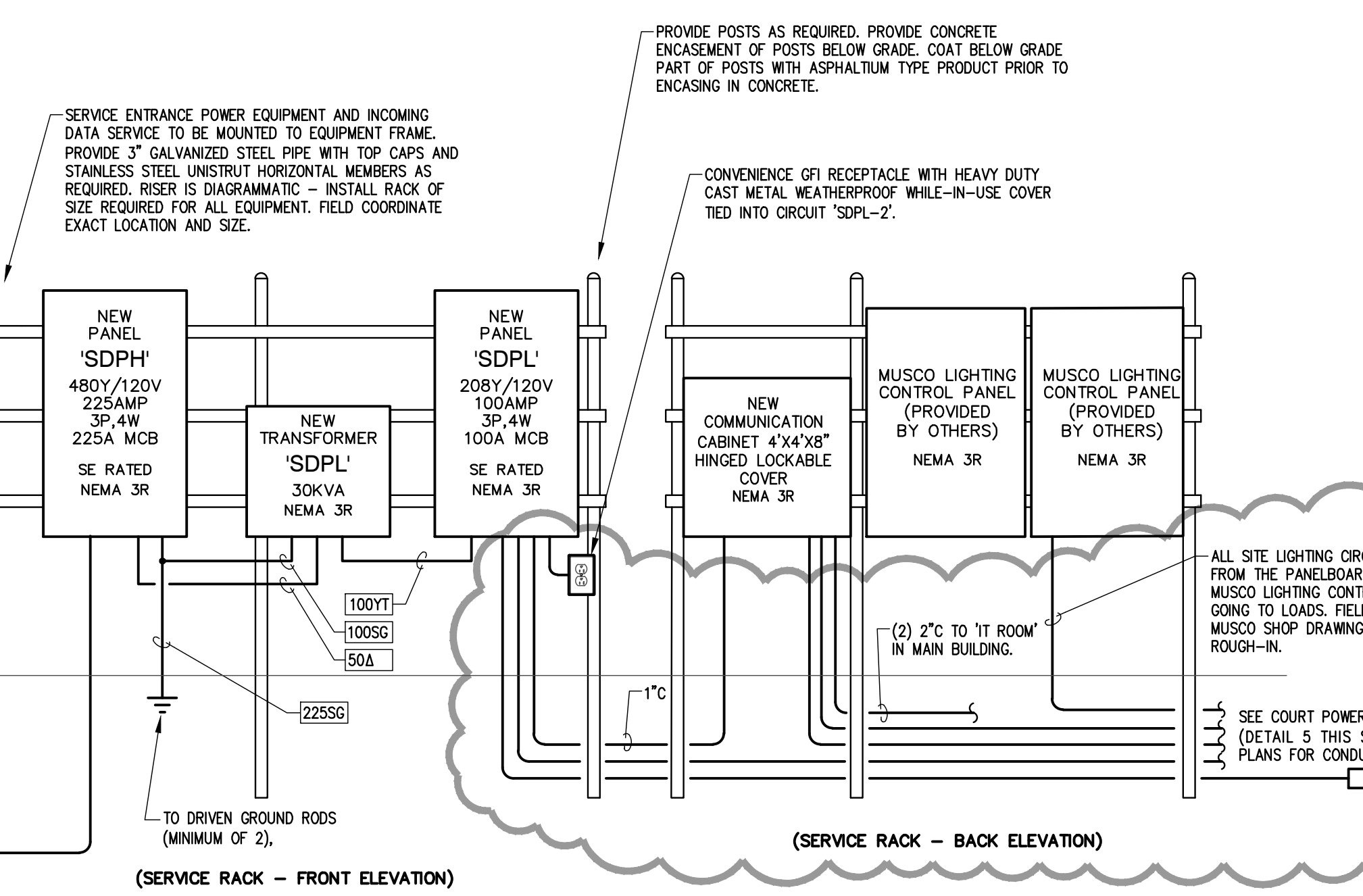
NEW PANEL 'SDPL' table with columns: CTY, LOAD, DESCRIPTION, COND, EGGI, N, W, CB, W, N, EGGI, COND, DESCRIPTION, LOAD, CTY. Includes a 'FEED THROUGH DEVICE' section at the bottom.

PHASE TOTALS table with columns: AMP, PHASE TOTALS, KVA. Includes details for PHASE A, PHASE B, PHASE C, and TOTAL DEMAND.

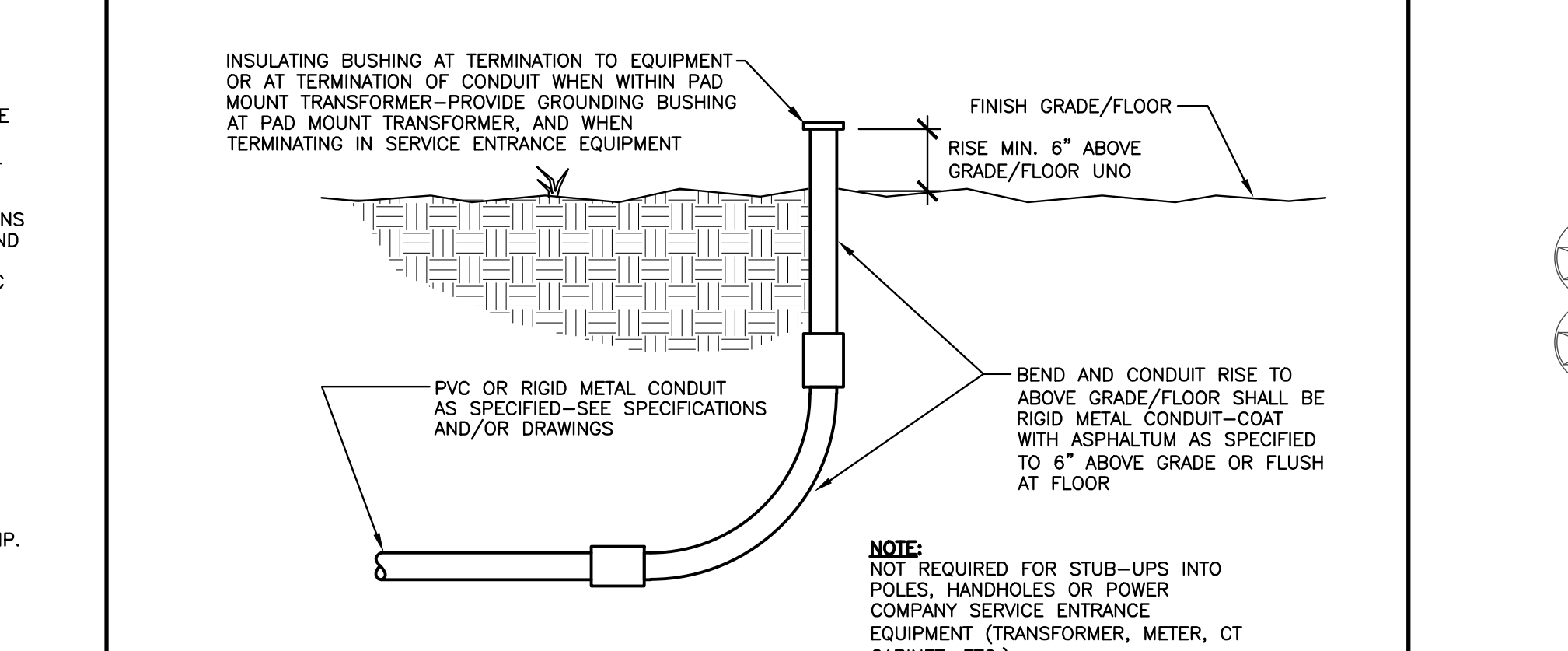
PHASE TOTALS table with columns: AMP, PHASE TOTALS, KVA. Includes details for PHASE A, PHASE B, PHASE C, and TOTAL DEMAND.



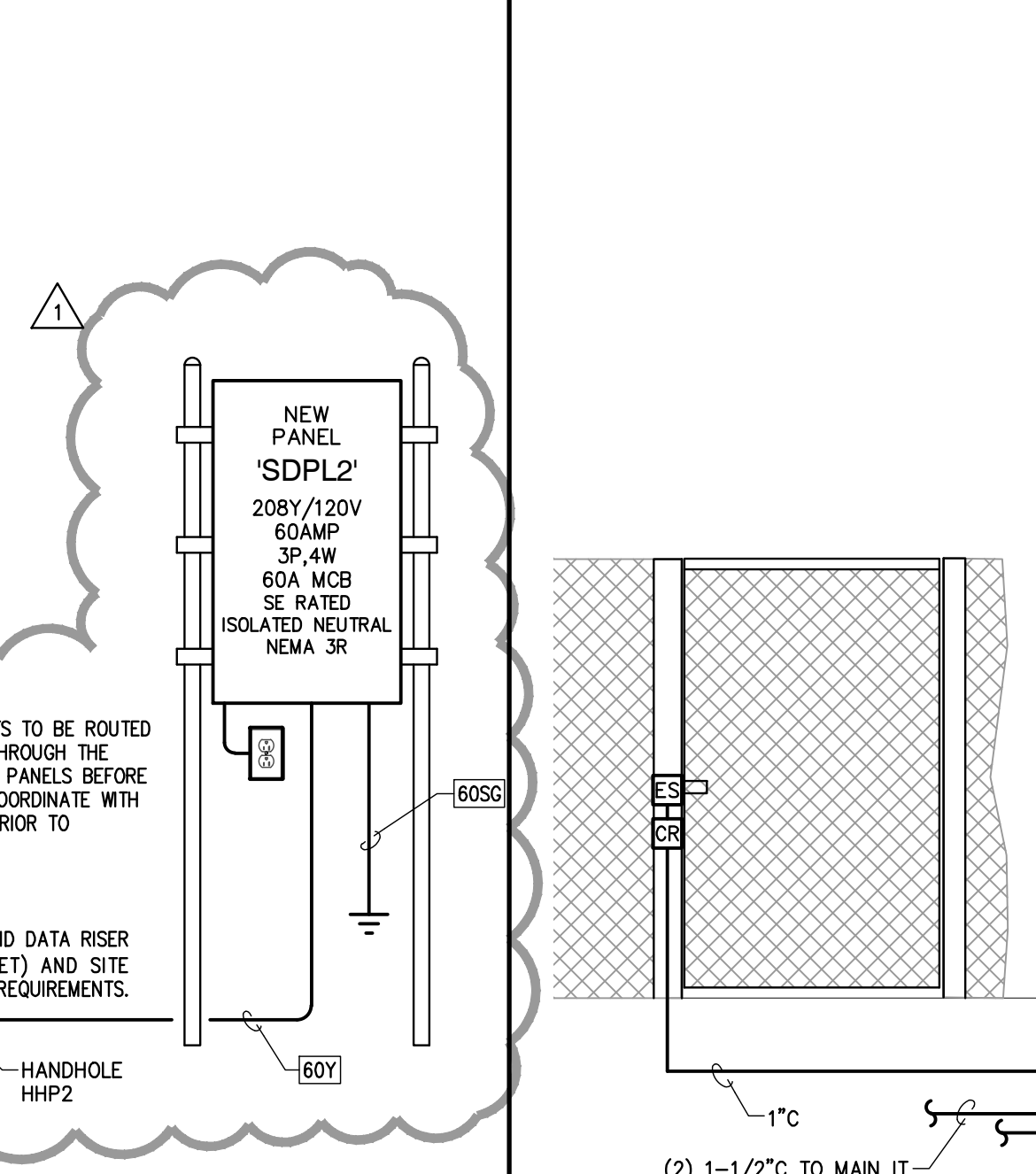
2 Electrical Equipment Dedicated Space & Working Clearance SCALE: NONE



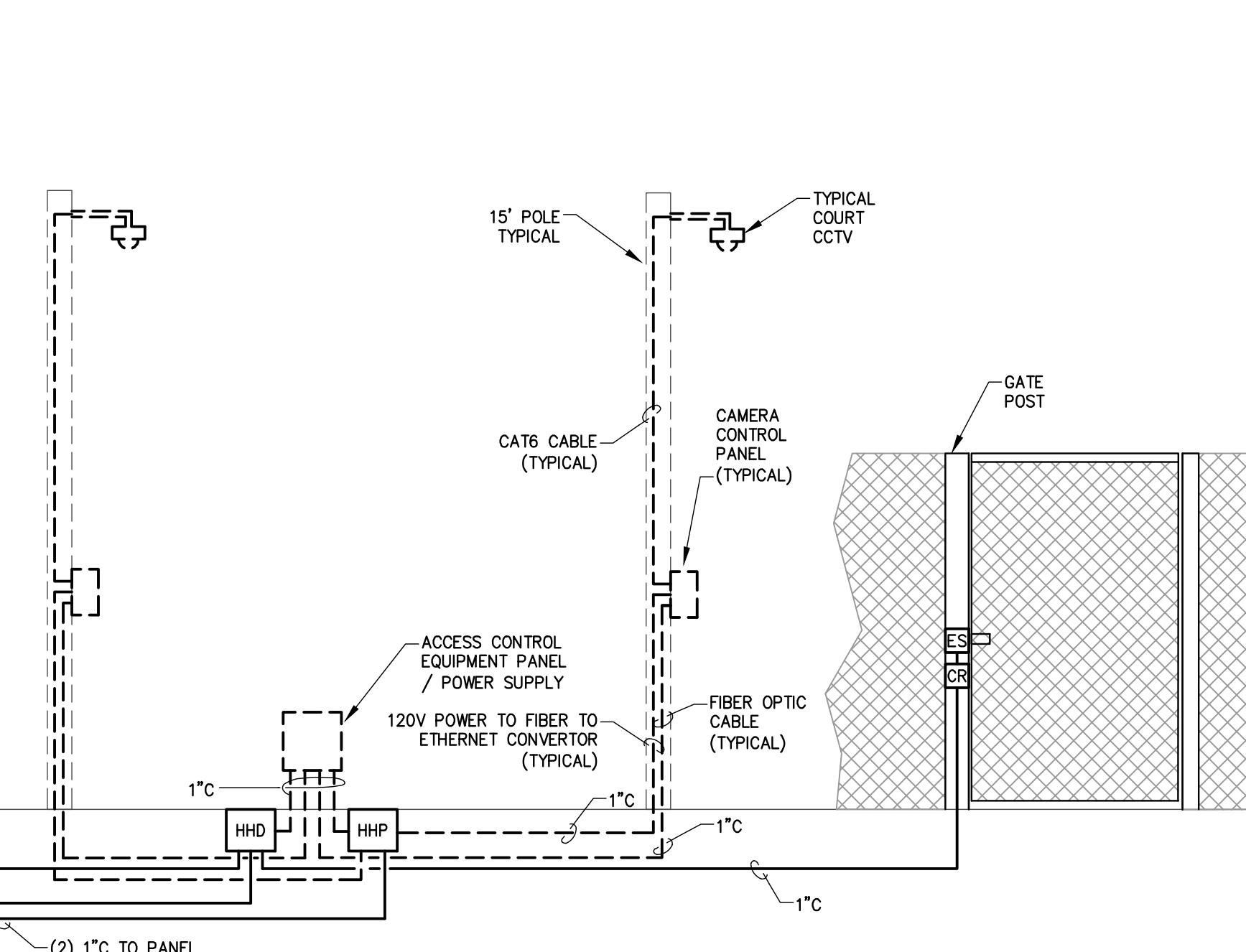
1 Electrical Riser Diagram SCALE: None



3 Underground Conduit Below Grade/Floor SCALE: Not To Scale



4 Receptacle Wiring Detail SCALE: Not To Scale



5 Typical Power & Data Riser SCALE: NONE

- NOTES:
1. ELECTRICAL CONTRACTOR TO INSTALL ALL INFRASTRUCTURE FOR OWNER PROVIDED CCTV, SECURITY AND ACCESS CONTROL EQUIPMENT. INFRASTRUCTURE TO INCLUDE MAIN CONDUIT RUNS, HAND HOLES AND POWER CIRCUITS. INFRASTRUCTURE SHALL ALSO INCLUDE ALL LOW VOLTAGE SYSTEM CONDUITS AND PULL STRINGS.
2. OWNER TO PROVIDE COURT CAMERA POLES AND EQUIPMENT AT A FUTURE TIME AND WILL INSTALL POWER AND LOW VOLTAGE CONDUIT AND CABLING FROM HANDHOLES TO EQUIPMENT AS REQUIRED AT THAT TIME. TOP OF POLES WILL TYPICALLY BE AT 15' WITH CAMERAS INSTALLED NEAR TOP OF POLE. CHAMPIONSHIP COURT POLE WILL BE 25'.
3. OWNER TO PROVIDE ALL CARD READERS AND ELECTRIC STRIKES AT THE COURT GATES.
4. OWNER TO PROVIDE ALL SITE SECURITY CAMERA WHICH WILL TYPICALLY BE INSTALLED ON COURT AND PARKING LOT LIGHTING POLES AS INDICATED ON PLANS.
5. OWNER PROVIDED EQUIPMENT IS DENOTED WITH DASHED LINE TYPE IN RISER.
6. THE GATES SHALL BE PREPARED BY THE CONTRACTOR FOR ELECTRICAL LOCKS AND CARD READERS. THE DESIGN BASIS FOR GATE SECURITY INFRASTRUCTURE (RACKWAYS, BOXES, GATE PREP, ETC.) IS AN OUTDOOR RATED ELECTRIC STRIKE SYSTEM. THIS WILL ALLOW THE GATES TO FAIL SECURE AND WILL ALLOW FREE EXIT FROM COURTS. A KEYPAD LOCK SET WILL ALSO ALLOW AUTHORIZED ACCESS DURING AN OUTAGE. SEE ARCHITECTURAL PLANS FOR DETAILS.
7. HHD - 11"x18"x18" POLYMER CONCRETE HANDHOLE FOR COMMUNICATIONS / LOW VOLTAGE SYSTEMS.
8. HHP - 11"x18"x18" POLYMER CONCRETE HANDHOLE FOR POWER CIRCUITS.
9. CONCEAL CONDUIT FOR CARD ACCESS IN GATE POSTS. COORDINATE WITH ARCHITECT, HARDWARE VENDOR AND SECURITY CONTRACTOR FOR EXACT LOCATIONS AND REQUIREMENTS.
10. PROVIDE A PULL STRING IN ALL EMPTY CONDUIT.
11. PROVIDE A RECORD DRAWING WITH EXACT LOCATIONS OF ALL CONDUIT INCLUDING DEPTHS SHOWN ON 10' INTERVALS.

5 Electrical Cover Sheet E1.0

cra logo and contact information: 222 cloister court chapel hill, nc 27514 919.401.8586 www.cra-ae.com

EDMONDSON ENGINEERS logo and contact information: 1820 Hwy. 54, Suite 700, Durham, NC 27713 Ph. 919.544.1836 Fax 919.544.2540 License: C-1813

Professional Engineer seal for Dennis J. Hayes, License No. 028899, State of North Carolina.

Mazarick Park Tennis Center 730 Filter Plant Road Fayetteville, North Carolina

City of Fayetteville logo and project information: no. revisions 1/30/24 AMR ADDED PHASE 2 SCOPE OF WORK

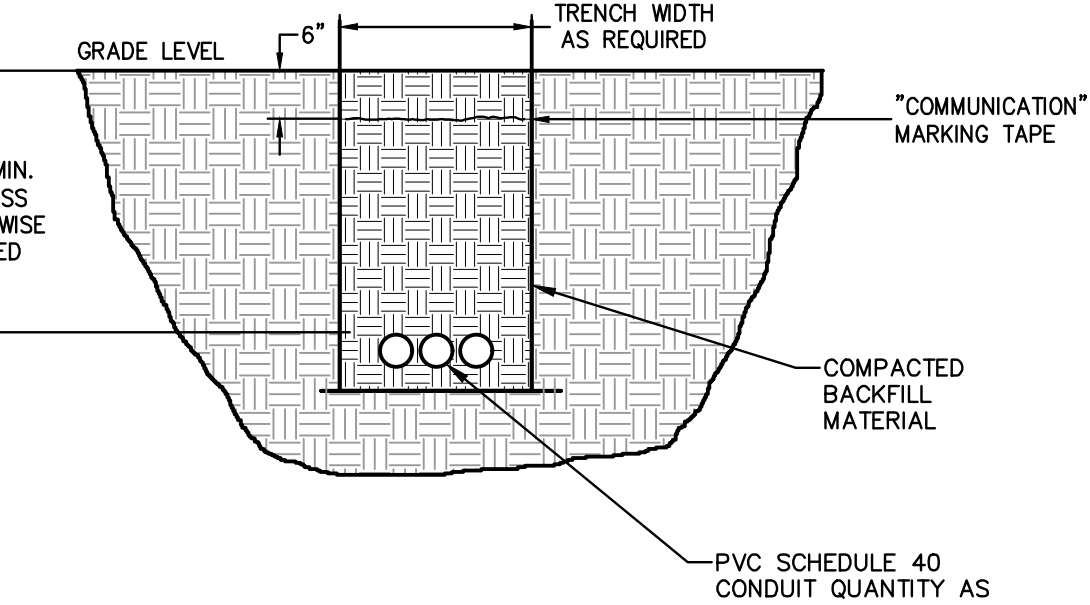
Electrical Cover Sheet E1.0 drawing MS3 checked JDH date 1/17/22 project no. 21-073

NEW PANEL 'SDPL2'																		
NOTES	CKT	LOAD	DESCRIPTION	COND	EGG	N	W	CB	LOAD	CB	W	N	EGG	COND	DESCRIPTION	LOAD	CKT	NOTES
	1	600	C1,C2 REC. CAMERA	1"	10	10	20	1200		20	12	12	12	3/4"	C3,C4 REC. CAMERA	600	2	
	3	360	C1,C2 SEC GATE	-	10	10	20	720		20	10	10	-	-	C1,C2 SEC GATE	360	4	
	5	200	CALL BOX	1"	10	10	20	380		20	12	12	12	3/4"	PANEL SERVICE REC	180	6	
	7		SPARE					0		20					SPARE	10	8	
	9		SPARE					0		20					SPARE	10	10	
	11		SPARE					0		20					SPARE	12	12	
	13		SPARE					0		20					SPARE	14	14	
	15		SPARE					0		20					SPARE	16	16	
	17		SPARE					0		20					SPARE	18	18	
	19		SPARE					0		20					SPARE	20	20	
	21		SPARE					0		20					SPARE	22	22	
	23		SPARE					0		20					SPARE	24	24	
		N/A	FEED THROUGH DEVICE					0		20								

208Y/120 VOLTS 3 PHASE
60 BUS AMPS N/A M.L.O.
60 FEEDER AMPS
60 MCB AMPS X MCB

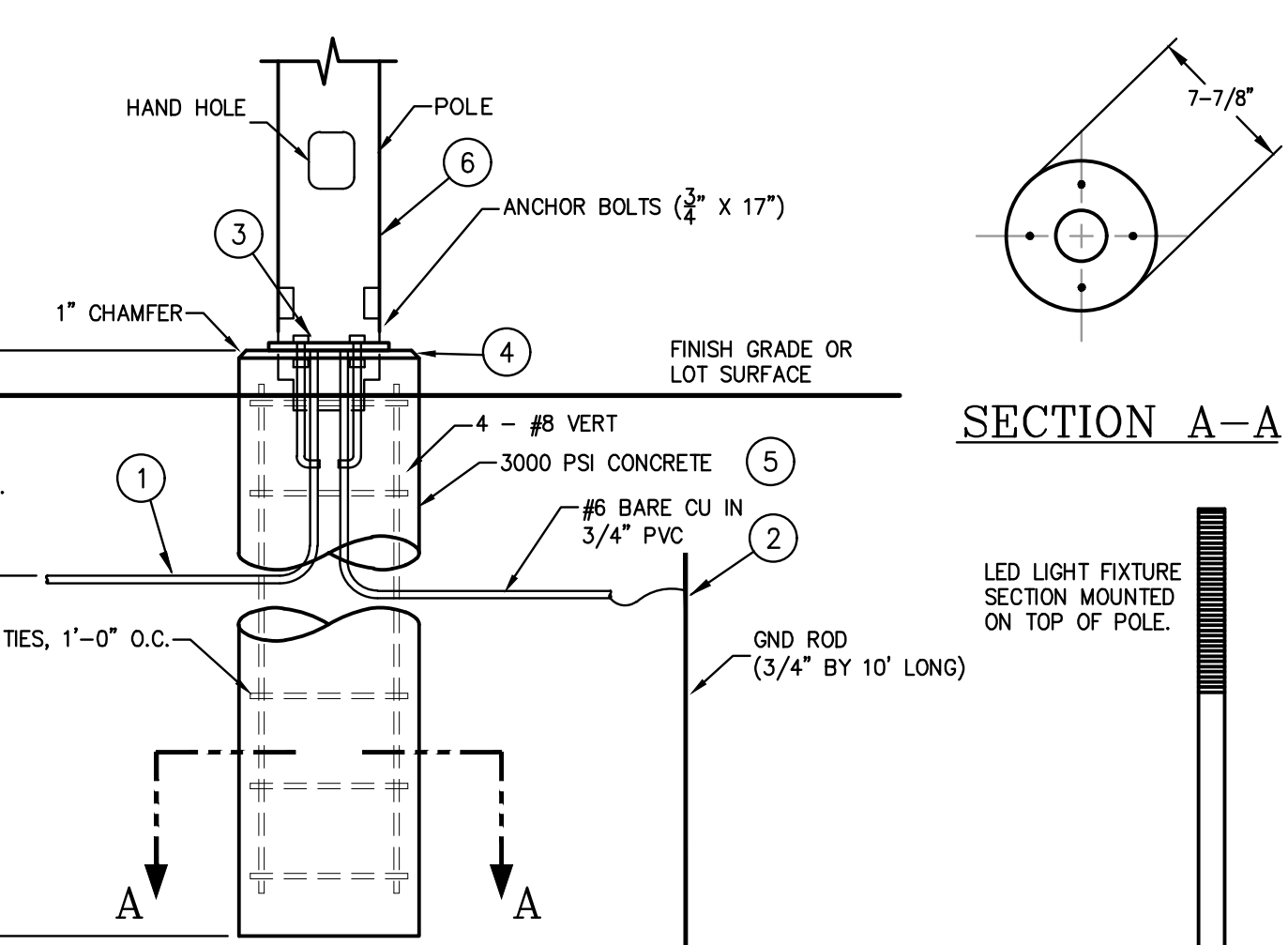
4 WIRE X GROUND BAR SURFACE MOUNT
NEMA 1 10K AC MINIMUM
X SE RATED NOTE 3

NOTES:	AMPS	PHASE TOTALS:	KVA
1. CIRCUITS UPSIZED FOR VOLTAGE DROP	10.00	PHASE A:	1.20
2. FUTURE CIRCUIT: INSTALL CONDUIT ONLY	6.00	PHASE B:	0.72
3. NEUTRAL BUS AND GROUND BUS TO BE ISOLATED	3.17	PHASE C:	0.38
	6.39	TOTAL CONNECTED:	2.30
	6.39	TOTAL DEMAND *:	2.30



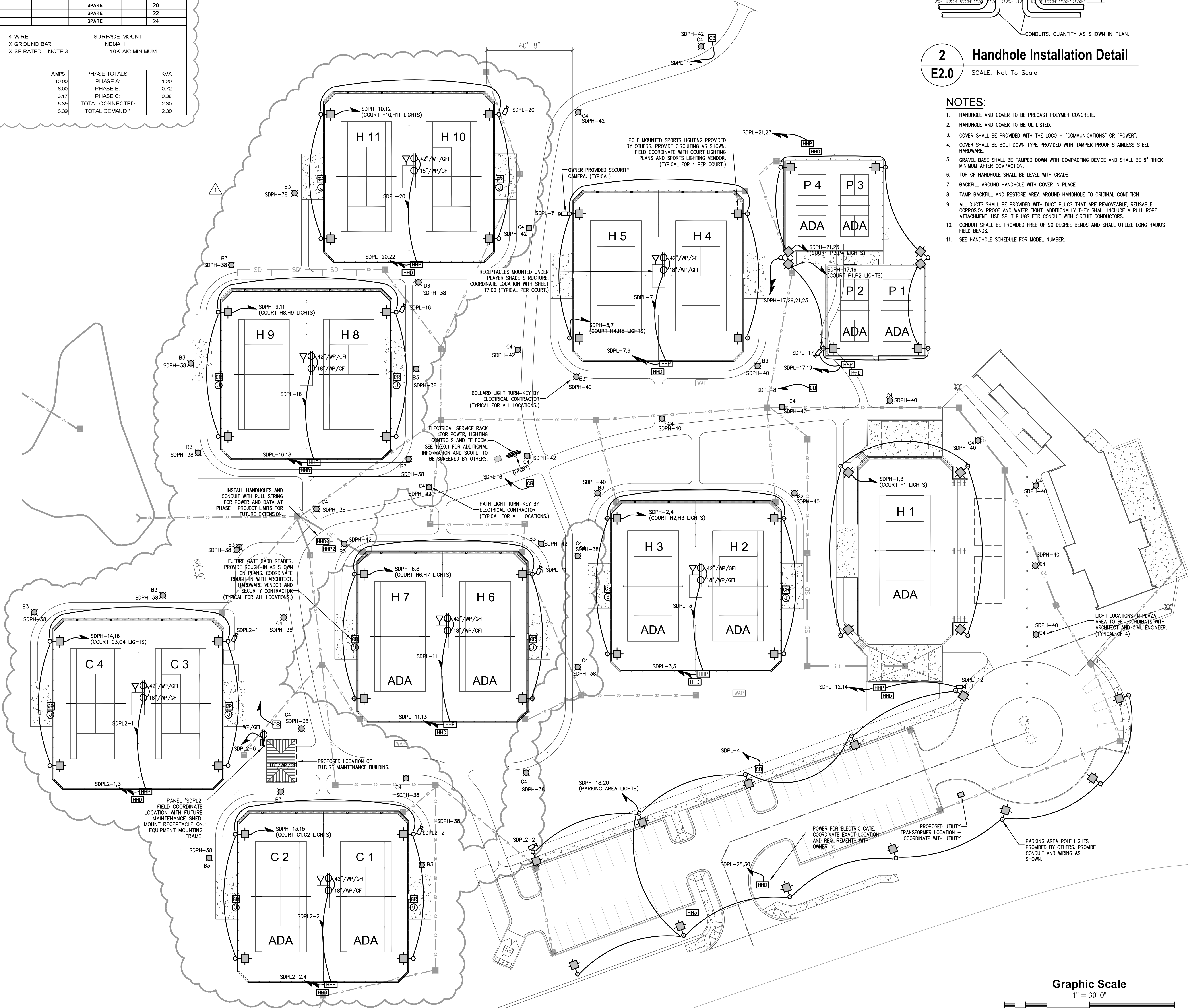
3 Trench Detail
E2.0 SCALE: Not To Scale

- NOTES:**
1. PROVIDE A NEW TRENCH FOR FIBER CONDUITS AS SHOWN IN PLAN. PROVIDE MINIMUM OF 24" OF COVER.
 2. PROVIDE SPACERS FOR CONDUIT.
 3. BACKFILL AND COMPACT THE TRENCH WITH THE REMOVED MATERIAL.
 4. PROVIDE MARKING TAPE ONE FOOT ABOVE DUCT BANK TO WARN OF THE ELECTRIC UTILITIES BELOW.

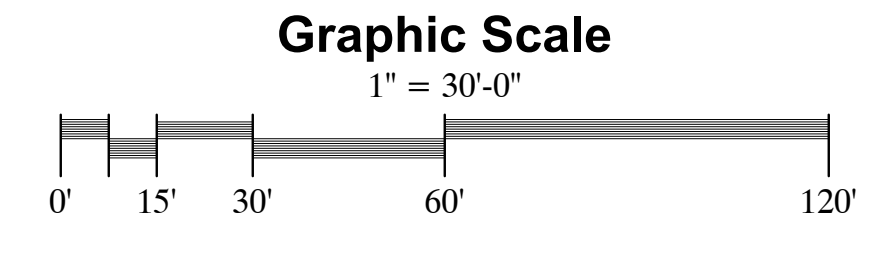


- NOTES:**
1. CONDUIT RUN(S) AS SHOWN ON SITE LIGHTING PLAN.
 2. BOND GROUNDING ELECTRODE CONDUCTOR TO ROD USING CLAMP LISTED FOR DIRECT BURIAL.
 3. BOND GROUNDING ELECTRODE CONDUCTOR AND CIRCUIT GROUNDING CONDUCTOR TO POLE BASE.
 4. GROUT AROUND POLE BASE. PROVIDE BOLT/NUT COVERS TO MATCH POLE COLOR AND CONSTRUCTION.
 5. PROVIDE TEMPORARY FORM TO MATCH INDICATED DIAMETER. AFTER FORM REMOVAL FINISH TO LEAVE SURFACE WITHOUT HOLES OR BLEBS.
 6. CENTER POLE ON CONCRETE BASE. BOLT PATTERN IS TO MATCH POLE BASE. ORIENT POLE BASE SUCH THAT FLAT SIDE OF POLE BASE IS PARALLEL TO CURB LINE.
 7. CONTRACTOR TO VERIFY POLE BASE DIMENSIONS AND MOUNTING REQUIREMENTS BEFORE CONSTRUCTING CONCRETE BASE.

4 Sidewalk Light Pole Base Detail
E2.0 SCALE: NONE



1 Site Power Plan
E2.0 SCALE: 1" = 30'-0"



2 Handhole Installation Detail
E2.0 SCALE: Not To Scale

- NOTES:**
1. HANDHOLE AND COVER TO BE PRECAST POLYMER CONCRETE.
 2. HANDHOLE AND COVER TO BE UL LISTED.
 3. COVER SHALL BE PROVIDED WITH THE LOGO - "COMMUNICATIONS" OR "POWER".
 4. COVER SHALL BE BOLT DOWN TYPE PROVIDED WITH TAMPER PROOF STAINLESS STEEL HARDWARE.
 5. GRAVEL BASE SHALL BE TAMPED DOWN WITH COMPACTING DEVICE AND SHALL BE 6" THICK MINIMUM AFTER COMPACTION.
 6. TOP OF HANDHOLE SHALL BE LEVEL WITH GRADE.
 7. BACKFILL AROUND HANDHOLE WITH COVER IN PLACE.
 8. TAMP BACKFILL AND RESTORE AREA AROUND HANDHOLE TO ORIGINAL CONDITION.
 9. ALL DUCTS SHALL BE PROVIDED WITH DUCT PLUGS THAT ARE REMOVABLE, REUSABLE, CORROSION PROOF AND WATER TIGHT. ADDITIONALLY THEY SHALL INCLUDE A PULL ROPE ATTACHMENT. USE SPLIT PLUGS FOR CONDUIT WITH CIRCUIT CONDUCTORS.
 10. CONDUIT SHALL BE PROVIDED FREE OF 90 DEGREE BENDS AND SHALL UTILIZE LONG RADIUS FIELD BENDS.
 11. SEE HANDHOLE SCHEDULE FOR MODEL NUMBER.

POLE MOUNTED SPORTS LIGHTING PROVIDED BY OTHERS. PROVIDE CIRCUITING AS SHOWN. FIELD COORDINATE WITH COURT LIGHTING PLANS AND SPORTS LIGHTING VENDOR. (TYPICAL FOR 4 PER COURT).

OWNER PROVIDED SECURITY CAMERA (TYPICAL).

RECEPTACLES MOUNTED UNDER PLAYER SHADE STRUCTURE. COORDINATE LOCATION WITH SHEET T7.00 (TYPICAL PER COURT).

BOLLARD LIGHT TURN-KEY BY ELECTRICAL CONTRACTOR (TYPICAL FOR ALL LOCATIONS).

ELECTRICAL SERVICE RACK FOR POWER, LIGHTING CONTROLS AND TELECOM. SEE SHEET FOR ADDITIONAL INFORMATION AND SCOPE. TO BE SCREENED BY OTHERS.

INSTALL HANDHOLES AND CONDUIT WITH PULL STRING FOR POWER AND DATA AT PHASE 1 PROJECT LIMITS FOR FUTURE EXTENSION.

FUTURE GATE CARD READER. PROVIDE ROUGH-IN AS SHOWN ON PLANS. COORDINATE ROUGH-IN WITH ARCHITECT, HARDWARE VENDOR AND SECURITY CONTRACTOR. (TYPICAL FOR ALL LOCATIONS).

PANEL 'SDPL2' FIELD COORDINATE LOCATION WITH FUTURE MAINTENANCE SHED. MOUNT RECEPTACLE ON EQUIPMENT MOUNTING FRAME.

PROPOSED LOCATION OF FUTURE MAINTENANCE BUILDING.

POWER FOR ELECTRIC GATE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER.

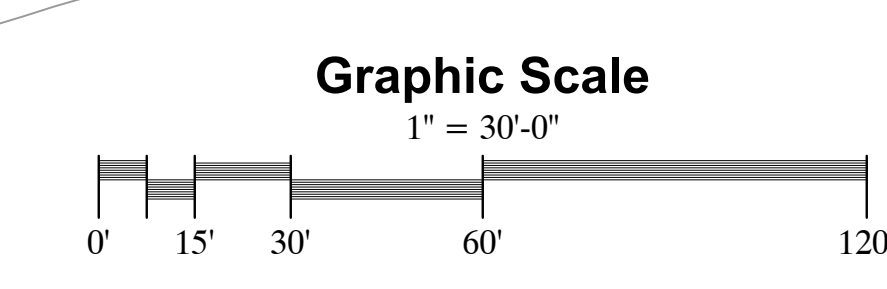
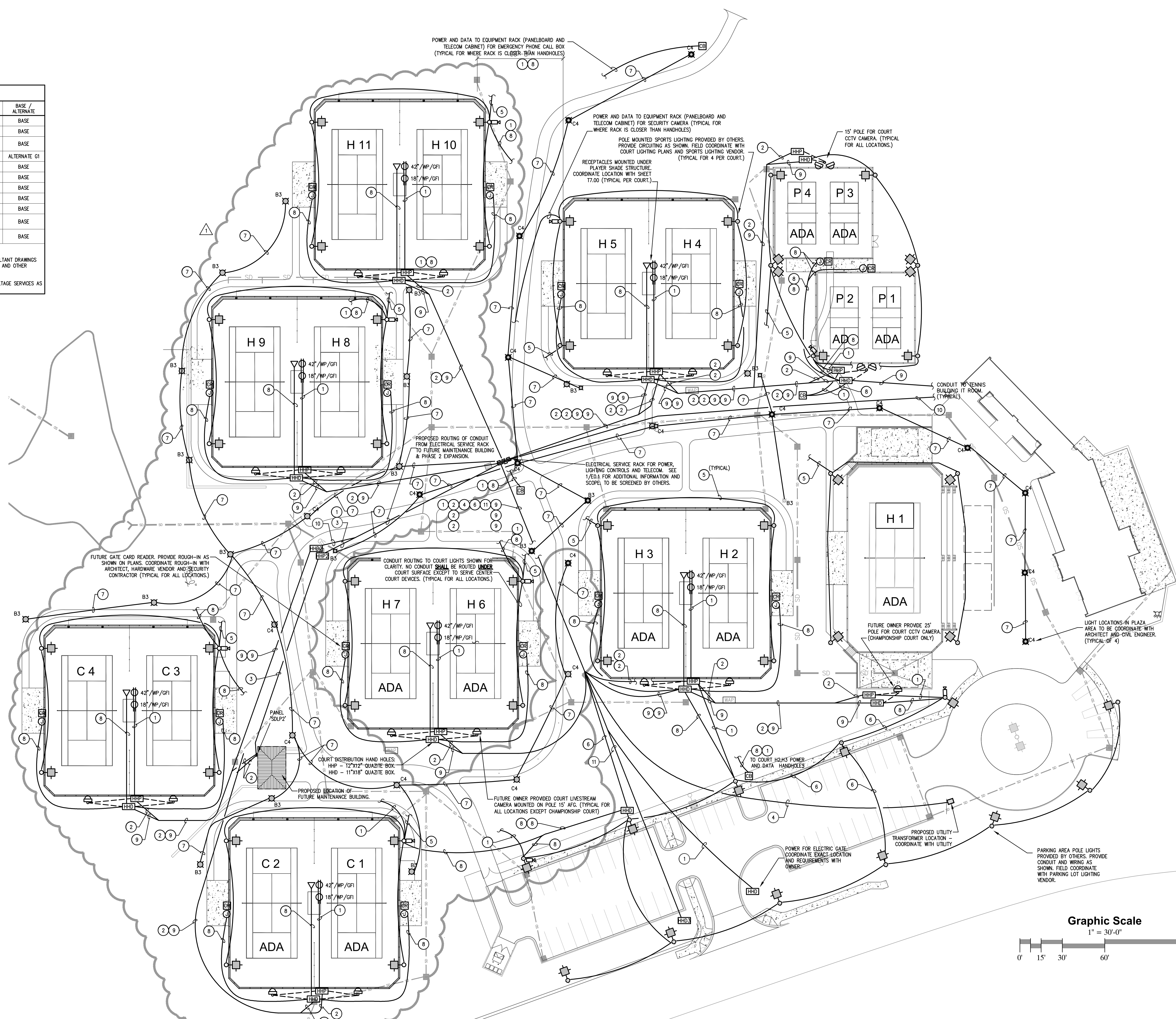
TRANSFORMER LOCATION. COORDINATE WITH UTILITY.

PARKING AREA POLE LIGHTS PROVIDED BY OTHERS. PROVIDE CONDUIT AND WIRING AS SHOWN.

SITE DISTRIBUTION SCHEDULE			
SYMBOL	CONDUIT SIZE	SITE UTILITY INFORMATION	BASE / ALTERNATE
1	1"	POWER - MISCELLANEOUS (RECEPTACLES, FUTURE SECURITY, ETC.)	BASE
2	(2) 1"	POWER - MISCELLANEOUS (RECEPTACLES, FUTURE SECURITY, ETC.)	BASE
3	(2) 2"	POWER - ELECTRICAL SERVICE RACK TO FUTURE MAINTENANCE BUILDING HH	BASE
4	3"	POWER - UTILITY TRANSFORMER TO SERVICE PANEL	ALTERNATE G1
5	1-1/4"	LIGHTING - COURT LIGHTING (POLE TO POLE & COURT TO MUSCO CNTRL PANEL)	BASE
6	1-1/4"	LIGHTING - PARKING LOT LIGHTING	BASE
7	1"	LIGHTING - SIDE WALK LIGHTING	BASE
8	1"	LOW VOLTAGE - SECURITY, CAMERAS, ETC.	BASE
9	(2) 1-1/2"	LOW VOLTAGE - SECURITY, CAMERAS, ETC.	BASE
10	(2) 2"	LOW VOLTAGE - ELECTRICAL SERVICE RACK TO BUILDING (IT ROOM, MAINT. BLD. HH)	BASE
11	3"	LOW VOLTAGE - ELECTRICAL SERVICE RACK TO PROPERTY LINE.	BASE

NOTE:
1. ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL CONDUITS WITH TENNIS FACILITY DESIGN CONSULTANT DRAWINGS TO MINIMIZE IMPACT TO COURTS. ROUTINGS ARE DIAGRAMMATIC AND MAY SHIFT AS REQUIRED FOR SITE CONDITIONS AND OTHER UTILITIES NOT SHOWN.
2. IF MAIN BUILDING IS NOT CONSTRUCTED, INCOMING LOW VOLTAGE CONDUIT TO BE ROUTED TO STREET FOR LOW VOLTAGE SERVICES AS REQUIRED.

HANDHOLE SCHEDULE:
 HH1 13'x24'x18"D, STRAIGHT WALL, OPEN BOTTOM, TIER 8, POLYMER CONCRETE HANDHOLE EQUAL TO QUARTZITE MODEL #G1324B18 WITH COVER MODEL #G1324CA00-12.
 HHP 11'x18'x18"D, STRAIGHT WALL, OPEN BOTTOM, TIER 8, POLYMER CONCRETE HANDHOLE EQUAL TO QUARTZITE MODEL #G1118CA00-17.
 HH2 17'x30'x18"D, STRAIGHT WALL, OPEN BOTTOM, TIER 8, POLYMER CONCRETE HANDHOLE EQUAL TO QUARTZITE MODEL #G1730CA00-12.
 HHP2 17'x30'x18"D, STRAIGHT WALL, OPEN BOTTOM, TIER 8, POLYMER CONCRETE HANDHOLE EQUAL TO QUARTZITE MODEL #G1730CA00-17.
 HH3 24'x36'x24"D, STRAIGHT WALL, OPEN BOTTOM, TIER 8, POLYMER CONCRETE HANDHOLE EQUAL TO QUARTZITE MODEL #G2436CA00-12.



1 Site Conduit Plan
E3.0 SCALE: 1" = 30'-0"

P:\PROJECTS\2021\01-073 MAZARICK PARK TENNIS CENTER - FAYETTEVILLE\13.0 CAD\13.00 ELECTRICAL\E3.0.DWG PLTDTN 1/26/2024 10:10 PM BY: BRUCE NEUMAN

CITY OF FAYETTEVILLE
Pre-Bid

DATE: October 17, 2024 TIME: 10:00 AM

SUBJECT: ITB - Mazarick Park Tennis Center Sitework

curry.com

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