

<p>GENERAL NOTES</p> <ol style="list-style-type: none"> THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LOCAL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY, SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE VERIZON REPRESENTATIVE OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES, THE CONTRACTOR SHALL FACE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS. 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ALL UNISTRUT, HARDWARE, AND OUTDOOR JUNCTION BOXES SHALL BE GALVANIZED STEEL, FOR FIELD CUTS OF GALVANIZED ITEMS, FIRST COAT SHALL BE GOLD GALVANIZED AND SECOND COAT SHALL BE MARINE GRADE GALVANIZED. GENERAL CONTRACTOR TO PROVIDE PORTABLE BATHROOM FACILITIES DURING CONSTRUCTION. RETURN ANY UNUSED MATERIALS WITH REQUIRED DOCUMENTATION TO A VERIZON WAREHOUSE WITHIN 14 DAYS OF CONSTRUCTION COMPLETION. REUSED MATERIAL NEEDS TO BE ACCCOMPANIED WITH AN RMA FORM AND PACKAGING REQUIREMENTS STIPULATED BY THE VERIZON CONSTRUCTION ENGINEER. WITHIN 24 HOURS, CONTRACTOR SHALL OPEN A REMEDY TICKET WITH THE VERIZON NOCC AND PERFORM DAILY VISUAL MONITORING OR PROVIDE A WIRELESS MONITORING DEVICE UNTIL THE SITE IS ON AIR. FILL OUT THE PROVIDED ENVIRONMENTAL EVALUATION SUMMARY (EES) AND SUBMIT WITHIN 24 HOURS OF COMPLETION OF THE WORK OUTLINED IN ATTACHMENT 'A' OF THE FORM. 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UPON COMPLETION OF ALL WORK CONTRACTOR SHALL REMOVE FIRE EXTINGUISHER FROM SITE. 	<p>CODE ANALYSIS OVERALL SITE</p> <p>APPLICABLE BUILDING CODES:</p> <p>2017 DC BUILDING CODE 2015 IBC WITH 2017 DCMR12A SUPPLEMENT 2015 IEBC WITH 2017 DCMR12J SUPPLEMENT 2014 NEC WITH 2017 DCMR12C SUPPLEMENT 2015 IFGC WITH 2017 DCMR12D SUPPLEMENT 2015 IFC WITH 2017 DCMR12H SUPPLEMENT 2012 IGC WITH 2017 DCMR12K SUPPLEMENT 2015 IECG WITH 2017 DCMR12I SUPPLEMENT 2015 IPC WITH 2017 DCMR12G SUPPLEMENT 2015 IMC WITH 2017 DCMR12E SUPPLEMENT</p> <p>INDUSTRY STANDARDS:</p> <p>ASCE/SEI 7-10 2010 ANSI/AISC 360 2010 ANSI/AISC 341 2010 ANSI S1000-07/52 2009 AISI S1000-07/51 2004 ASTM A325 OR A490 2015 AWS D1.1 2014 ACI 318 2011 ACI 530 2011 ACI 530.1 2016 TIA 222-G 2015 TIA 607-C 2012 IEEE801 2005 IEEE1100 2002 IEEE C62.41 TELCORDIA GR-1275 TELCORDIA GR-1503 1991 ANSI T1.311 FOR TELECOM 2011 NFPA 780 LIGHTNING PROTECTION CODE 2011</p>	<p>verizon</p> <p>KINGMAN PARK 2600 BENNING RD (AKA: 2500 BENNING RD NE) WASHINGTON, DC 20002</p>	<p>TEI TELEGENT ENGINEERING INC. 2216 Commerce Road, Suite 1 Forest Hill, MD 21050 410-692-5816 www.tei-eng.com</p> <p>TELEGRAM TELEGENT ENGINEERING INC. 2216 Commerce Road, Suite 1 Forest Hill, MD 21050 410-692-5816 www.tei-eng.com</p> <p>06/10/2025</p> <p>I AM RESPONSIBLE FOR DETERMINING THAT THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICATION ARE IN COMPLIANCE WITH ALL LAWS AND REGULATIONS OF THE DISTRICT OF COLUMBIA. I HAVE PERSONALLY PREPARED, OR DIRECTED OR SUPERVISED THE DEVELOPMENT OF THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICATION.</p>
<p>SITE INFORMATION</p> <p>USE GROUP: UTILITY (U) CONSTRUCTION TYPE: IIB EXISTING COMPOUND AREA: 520 SQ. FT. PROPOSED COMPOUND AREA: 506 SQ. FT. PLATFORM AREA: (VERIZON EQUIPMENT PLATFORM) ELECTRIC UTILITY COMPANY: PEPCO NATURAL GAS UTILITY COMPANY: WASHINGTON GAS</p> <p>GENERATOR USE</p> <p>THE PROPOSED VERIZON WIRELESS GENERATOR IS AN OPTIONAL STAND-BY UNIT AND DOES NOT SUPPLY LIFE SAFETY EQUIPMENT. THE GENERATOR IS USED TO BACKUP THE TELEPHONE EXCHANGE EQUIPMENT IN ORDER TO KEEP THE CELL SITE IN FULL OPERATION IN THE EVENT OF NORMAL UTILITY POWER FAIL. THEREFORE, NFPA 110 DOES NOT APPLY.</p>	<p>INDEX OF DRAWINGS</p> <p>C5-1 SITE LOCATION AND VICINITY PLAN, INDEX OF DRAWINGS, AND CODE ANALYSIS C-1 SITE PLAN C-2 ENLARGED COMPOUND LAYOUT, DETAILS & TOWER ELEVATION C-3 ANTENNA SECTOR PLAN, DETAILS & SCHEDULE S-1 STRUCTURAL DETAILS S-2 STRUCTURAL DETAILS S-3 STRUCTURAL DETAILS S-4 STRUCTURAL DETAILS & NOTES E-1 ELECTRICAL SPECIFICATIONS, SYMBOLS LIST, AND SCHEDULES E-2 POWER SITE PLAN AND NOTES E-3 PART PLANS, POWER RISER, AND NOTES E-4 GROUNDING SITE PLAN AND NOTES E-5 DETAILS E-6 DETAILS E-7 HYBRIFLEX DETAILS AND DIAGRAM E-8 PLUMBING DIAGRAM AND DETAILS E-9 DUCTBANK DETAILS</p>	<p>RAND McNALLY LICENSE # RL04-5-97</p> <p>VICINITY PLAN</p> <p>PROJECT DESCRIPTION</p> <p>THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A NEW VERIZON FENCED COMPOUND WITH ELEVATED EQUIPMENT PLATFORM ON GRADE FOR MOUNTING OF VERIZON TELECOMMUNICATIONS EQUIPMENT AND ASSOCIATED STAND-BY GENERATOR. THE ASSOCIATED TWELVE (12) ANTENNAS WILL BE MOUNTED ON THE EXISTING 89'-0" MONPOLE TOWER, WITH PROPOSED 15'-0" EXTENSION, AT A RAD CENTER OF 99'-0".</p> <p>DIRECTIONS TO SITE</p> <p>FROM JUNCTION DRIVE: - MERGE ONTO MD-32 E - TAKE EXIT 10C TO MERGE ONTO BALTIMORE-WASHINGTON FREEWAY - CONTINUE ONTO MD-201 - CONTINUE ONTO STATE HIGHWAY 295 - TAKE THE EXIT TOWARD BENNING RD/FOOTE ST/RFK STADIUM - MERGE ONTO KENILWORTH AVENUE NORTHEAST - TAKE THE RAMP TO BENNING ROAD - MERGE ONTO BENNING RD NE - TURN RIGHT ONTO 26TH ST NE - DESTINATION WILL BE ON THE RIGHT</p> <p>VERIZON REVIEW</p> <p>BUILDING OWNER _____ DATE _____ ENGINEERING _____ DATE _____ OPERATIONS _____ DATE _____ CONSTRUCTION _____ DATE _____</p> <p>SHEET: CS-1 0001</p>	

verizon

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1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
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12. THE CONTRACTOR SHALL MAINTAIN THE GENERAL WORK AREA AS CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DEBRIS, TRASH, AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. DETAILS OF EQUIPMENT TO BE INCLUDED IN RFQ PACKAGE. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
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16. ALL UNISTRUT, HARDWARE, AND OUTDOOR JUNCTION BOXES SHALL BE GALVANIZED STEEL. FOR FIELD CUTS OF GALVANIZED ITEMS, FIRST COAT SHALL BE COLD GALVANIZED AND SECOND COAT SHALL BE MARINE GRADE GALVANIZED.
17. GENERAL CONTRACTOR TO PROVIDE PORTABLE BATHROOM FACILITIES DURING CONSTRUCTION.
18. RETURN ANY UNUSED MATERIALS WITH REQUIRED DOCUMENTATION TO THE VERIZON WAREHOUSE WITHIN 14 DAYS OF PROJECT COMPLETION. RETURNED MATERIAL NEEDS TO BE ACCOMPANIED WITH AN RMA FORM AND PACKAGING REQUIREMENTS STIPULATED BY THE VERIZON CONSTRUCTION ENGINEER.
19. WITHIN 24 HOURS, CONTRACTOR SHALL OPEN A REMEDY TICKET WITH THE VERIZON NOCC AND PERFORM DAILY VISUAL MONITORING OR PROVIDE A WIRELESS MONITORING DEVICE UNTIL THE SITE IS ON AIR.
20. FILL OUT THE PROVIDED ENVIRONMENTAL EVALUATION SUMMARY (EES) AND SUBMIT WITHIN 24 HOURS OF COMPLETION OF THE WORK OUTLINED IN ATTACHMENT 'A' OF THE FORM.
21. CONTRACTOR IS RESPONSIBLE FOR STORAGE OF ALL MATERIALS PROVIDED BY VERIZON, AND IS LIABLE FOR THOSE MATERIALS ONCE PICKED UP FROM THE WAREHOUSE.
22. CONTRACTOR SHALL PERFORM A PUNCH WALK WITH VERIZON CONSTRUCTION & OPERATION REPRESENTATIVE PRIOR TO DECLARING CONSTRUCTION COMPLETE.
23. GENERAL CONTRACTOR SHALL PROVIDE A 10LBS. DRY-CHEMICAL FIRE EXTINGUISHER ON SITE DURING CONSTRUCTION. UPON COMPLETION OF ALL WORK, CONTRACTOR SHALL REMOVE FIRE EXTINGUISHER FROM SITE.

CODE ANALYSIS OVERALL SITE

APPLICABLE BUILDING CODES:	2017 DC BUILDING CODE 2015 IBC WITH 2017 DCMR12A SUPPLEMENT 2015 IEBC WITH 2017 DCMR12J SUPPLEMENT. 2014 NEC WITH 2017 DCMR12C SUPPLEMENT 2015 IFGC WITH 2017 DCMR12D SUPPLEMENT. 2015 IFC WITH 2017 DCMR12H SUPPLEMENT 2012 IGCC WITH 2017 DCMR12K SUPPLEMENT 2015 IECC WITH 2017 DCMR12I SUPPLEMENT 2015 IPC WITH 2017 DCMR12G SUPPLEMENT 2015 IMC WITH 2017 DCMR12E SUPPLEMENT
INDUSTRY STANDARDS:	ASCE/SEI 7-2010 2010 ANSI/AISC 360 2010 ANSI/AISC 341 2010 ANSI S1000-07/S2 2009 AISI S1000-07/S1 2004 ASTM A325 OR A490 2015 AWS D1.I 2014 ACI 318 2011 ACI 530 2011 ACI 530.I 2016 TIA 222-G 2015 TIA 607-C 2012 IEEE81 2005 IEEE1100 2002 IEEE C62.41 TELCORDIA GR-1275 TELCORDIA GR-1503 1991 ANSI T1.311 FOR TELECOM 2011 NFPA 780 LIGHTNING PROTECTION CODE 2011

SITE INFORMATION

USE GROUP:	UTILITY (U)
CONSTRUCTION TYPE:	IIB
EXISTING COMPOUND AREA:	528 SQ. FT.
PROPOSED COMPOUND AREA:	506 SQ. FT.
PLATFORM AREA: (VERIZON EQUIPMENT PLATFORM)	325.5 SQ. FT.
ELECTRIC UTILITY COMPANY:	PEPCO
NATURAL GAS UTILITY COMPANY:	WASHINGTON GAS

GENERATOR USE

THE PROPOSED VERIZON WIRELESS GENERATOR IS A

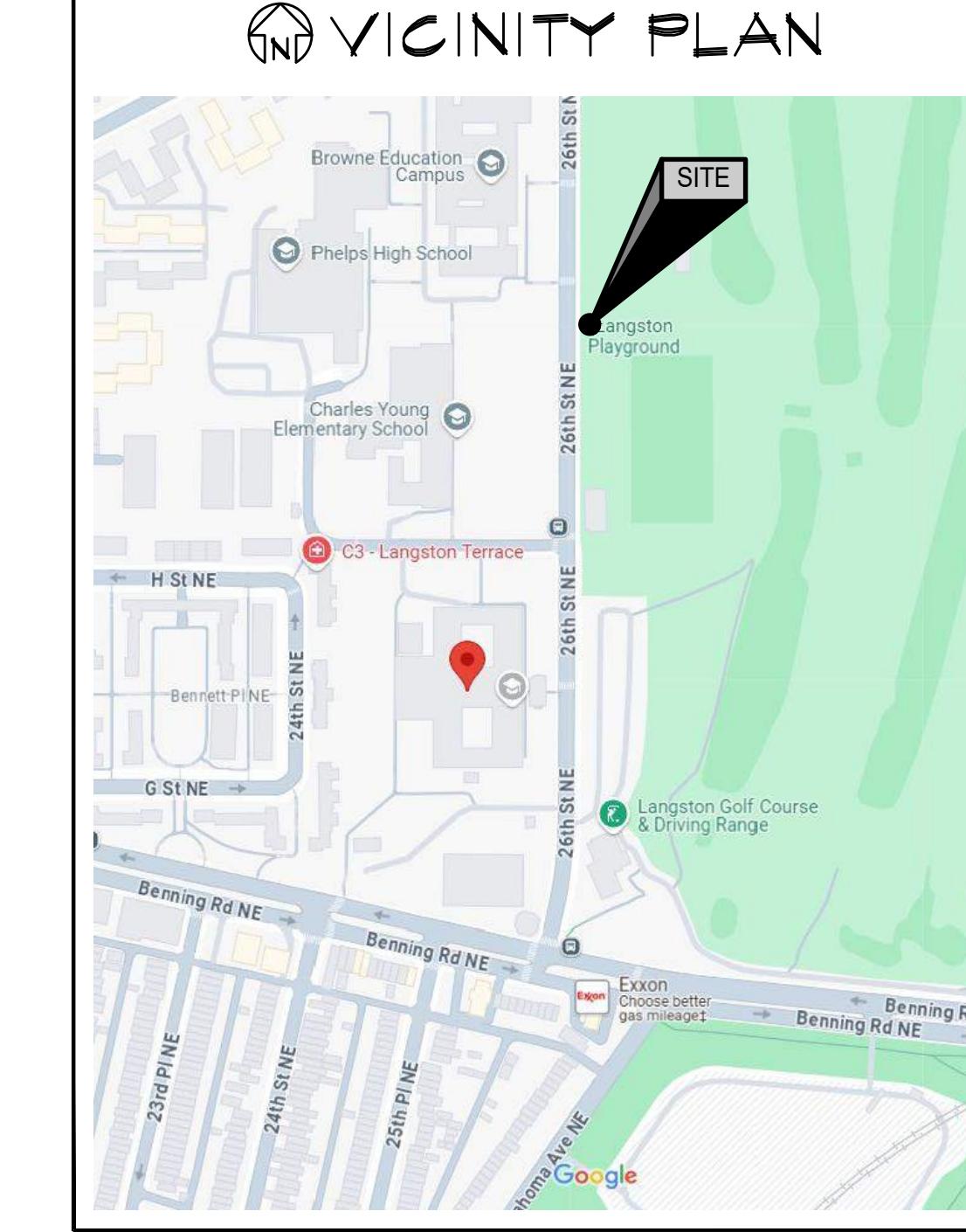
GENERATOR USE

THE PROPOSED VERIZON WIRELESS GENERATOR IS AN OPTIONAL STAND-BY UNIT AND DOES NOT SUPPLY LIFE SAFETY EQUIPMENT. THE GENERATOR IS USED TO BACKUP THE TELEPHONE EXCHANGE EQUIPMENT IN ORDER TO KEEP THE CELL SITE IN FULL OPERATION IN THE EVENT OF NORMAL UTILITY POWER FAIL. THEREFORE, NFPA 110 DOES NOT APPLY.

INDEX OF DRAWINGS

- CS-1 SITE LOCATION AND VICINITY PLAN, INDEX OF DRAWINGS, AND CODE ANALYSIS
- C-1 SITE PLAN
- C-2 ENLARGED COMPOUND LAYOUT, DETAILS & TOWER ELEVATION
- C-3 ANTENNA SECTOR PLAN, DETAILS & SCHEDULE
- S-1 STRUCTURAL DETAILS
- S-2 STRUCTURAL DETAILS
- S-3 STRUCTURAL DETAILS
- S-4 STRUCTURAL DETAILS & NOTES
- E-1 ELECTRICAL SPECIFICATIONS, SYMBOLS LIST, AND SCHEDULES
- E-2 POWER SITE PLAN AND NOTES
- E-3 PART PLANS, POWER RISER, AND NOTES
- E-4 GROUNDING SITE PLAN AND NOTES
- E-5 DETAILS
- E-6 DETAILS
- E-7 HYBRIFLEX DETAILS AND DIAGRAM
- E-8 PLUMBING DIAGRAM AND DETAILS
- E-9 DUCTBANK DETAILS

RAND McNALLY LICENSE # R.L.04-S-97



PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A NEW VERIZON FENCED COMPOUND WITH ELEVATED EQUIPMENT PLATFORM ON GRADE FOR MOUNTING OF VERIZON TELECOMMUNICATIONS EQUIPMENT AND ASSOCIATED STAND-BY GENERATOR. THE ASSOCIATED TWELVE (12) ANTENNAS WILL BE MOUNTED ON THE EXISTING 89'-0" MONOPOLE TOWER, WITH PROPOSED 15'-0" EXTENSION, AT A RAD CENTER OF 99'-0".

DIRECTIONS TO SITE

FROM JUNCTION DRIVE:

- MERGE ONTO MD-32 E
- TAKE EXIT 10C TO MERGE ONTO BALTIMORE-WASHINGTON PKWY
- CONTINUE ONTO MD-201
- CONTINUE ONTO STATE HWY 295
- TAKE THE EXIT TOWARD BENNING RD/FOOTE ST/RFK STADIUM
- MERGE ONTO KENILWORTH AVENUE NORTHEAST
- TAKE THE RAMP TO BENNING ROAD
- MERGE ONTO BENNING RD NE
- TURN RIGHT ONTO 26TH ST NE
- DESTINATION WILL BE ON THE RIGHT

VERIZON REVIEW

BUILDING OWNER	DATE
ENGINEERING	DATE
OPERATIONS	DATE
CONSTRUCTION	DATE

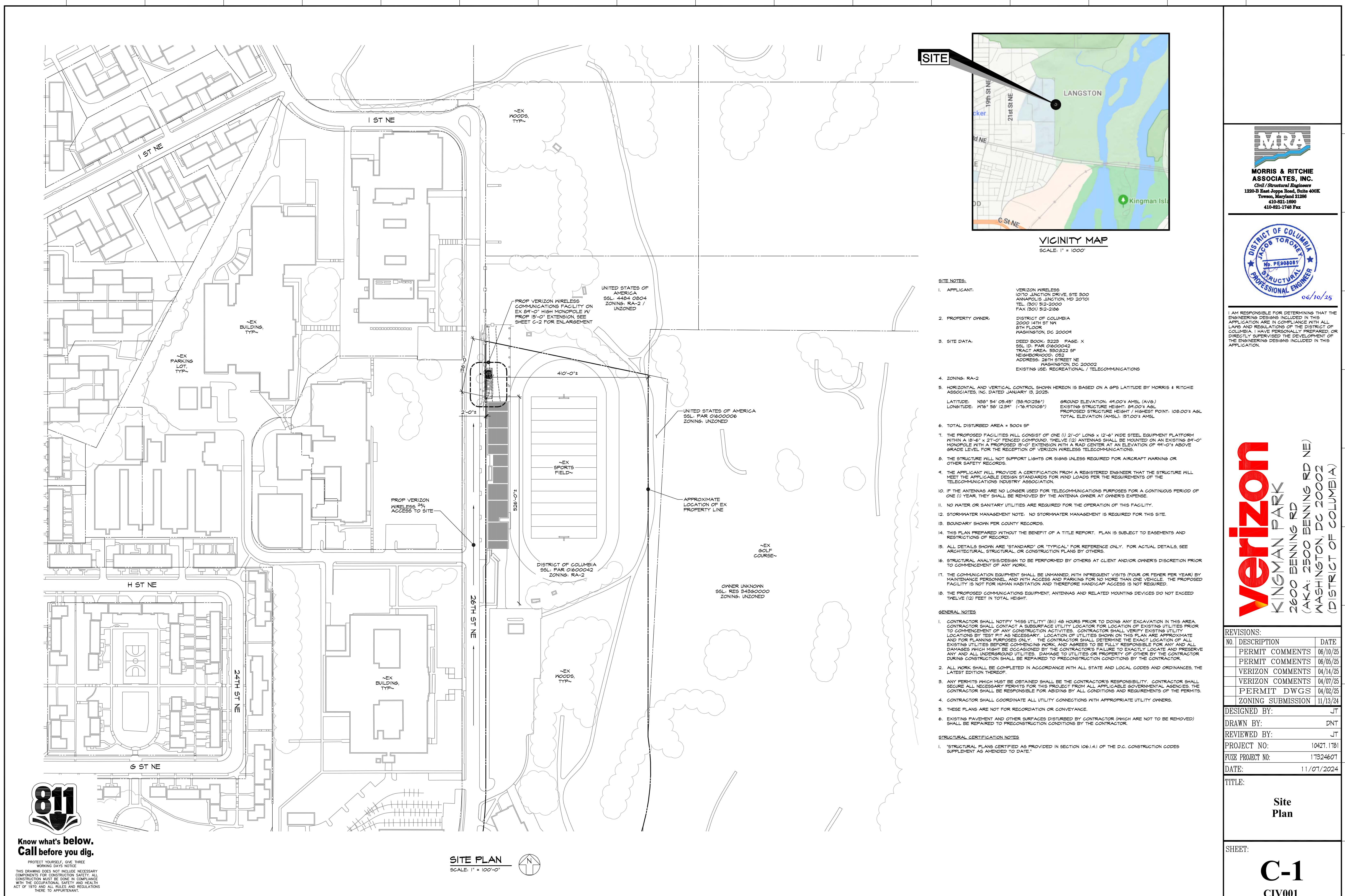
The image features the Verizon logo in its signature red, bold, sans-serif font on the left. To the right is a white rectangular label with black text and a black outline. The label contains the word 'VERIZON' in a large, bold, sans-serif font, with the 'V' partially cut off on the left edge. Below it, the word 'CINNAMON PARK' is written in a smaller, stylized, all-caps font. At the bottom of the label, the address '600 BENNING RD' is followed by 'AKA: 2500 BENNING RD NE' on the next line, 'WASHINGTON, DC 20002' on the third line, and 'DISTRICT OF COLUMBIA)' on the fourth line.

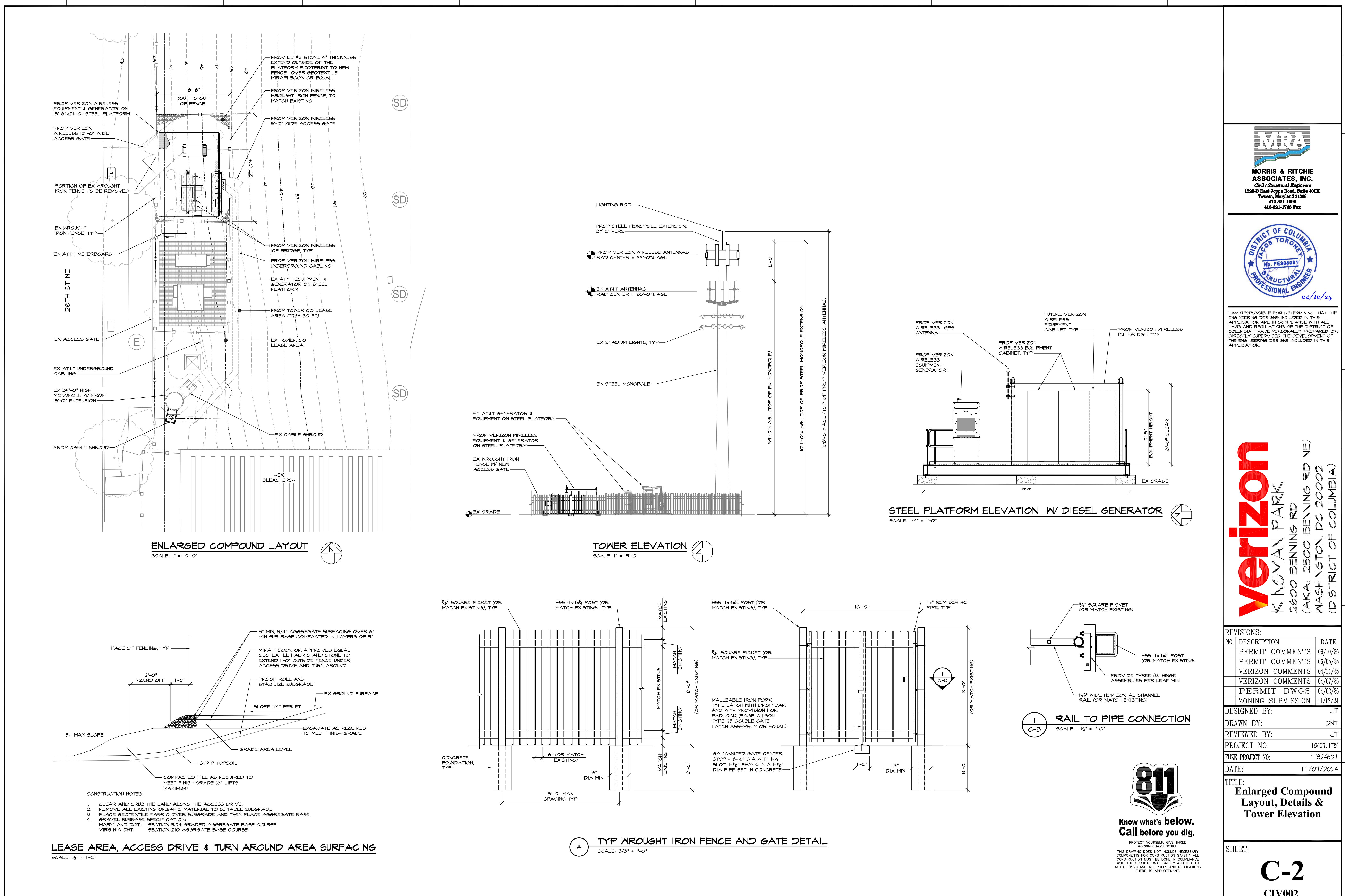
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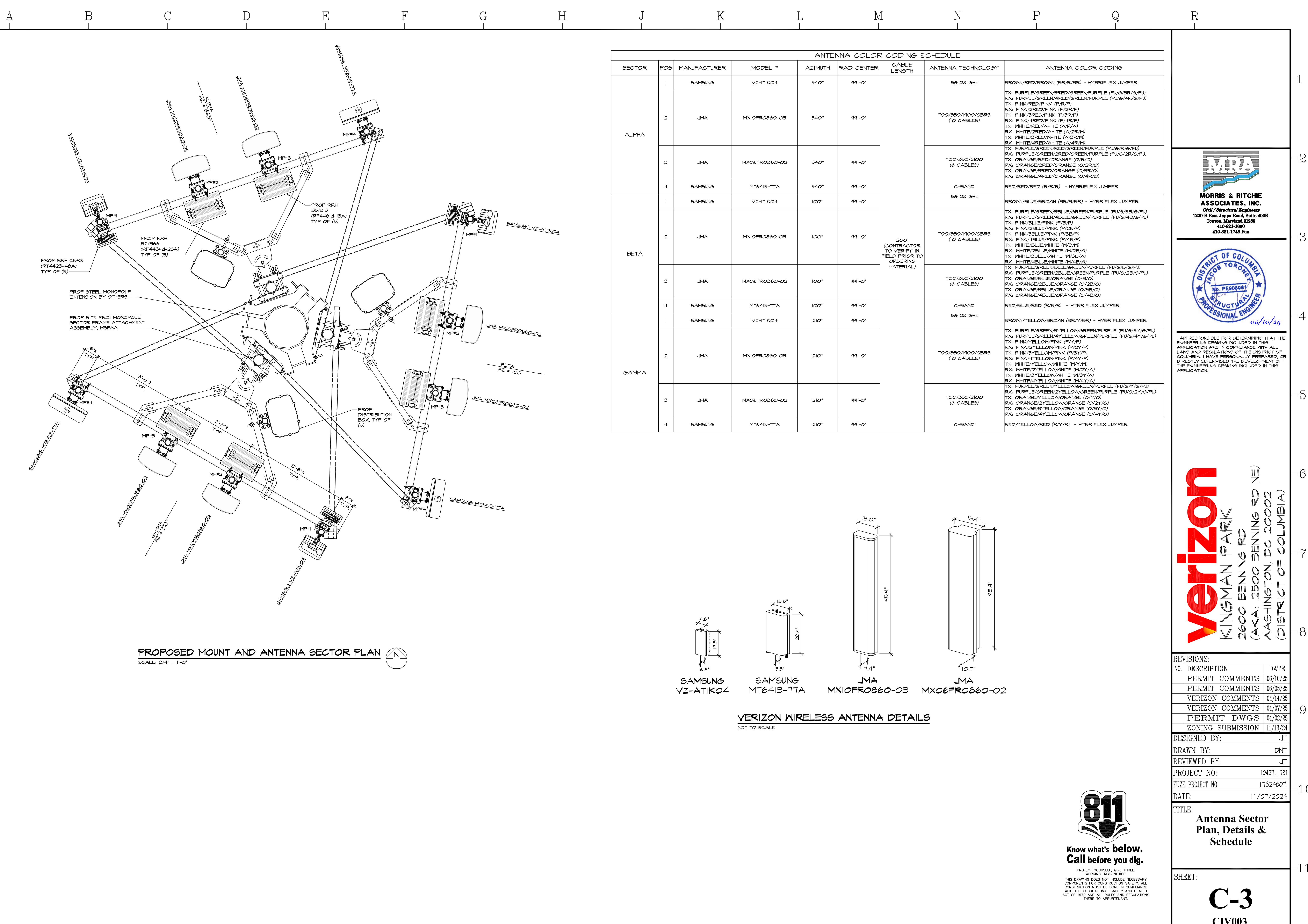
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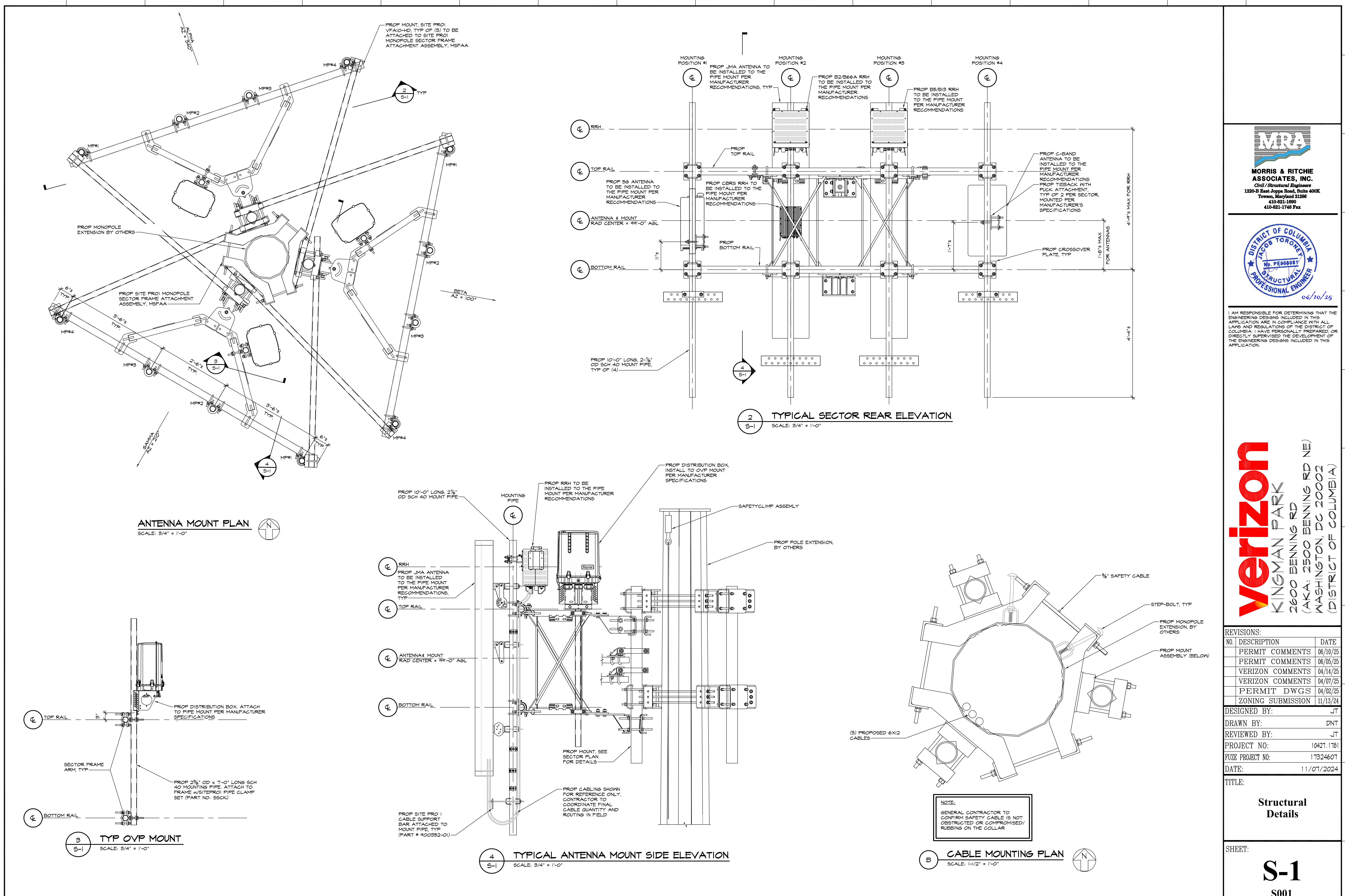
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AND VICINITY
PLAN, INDEX OF
DRAWINGS, AND
CODE ANALYSIS

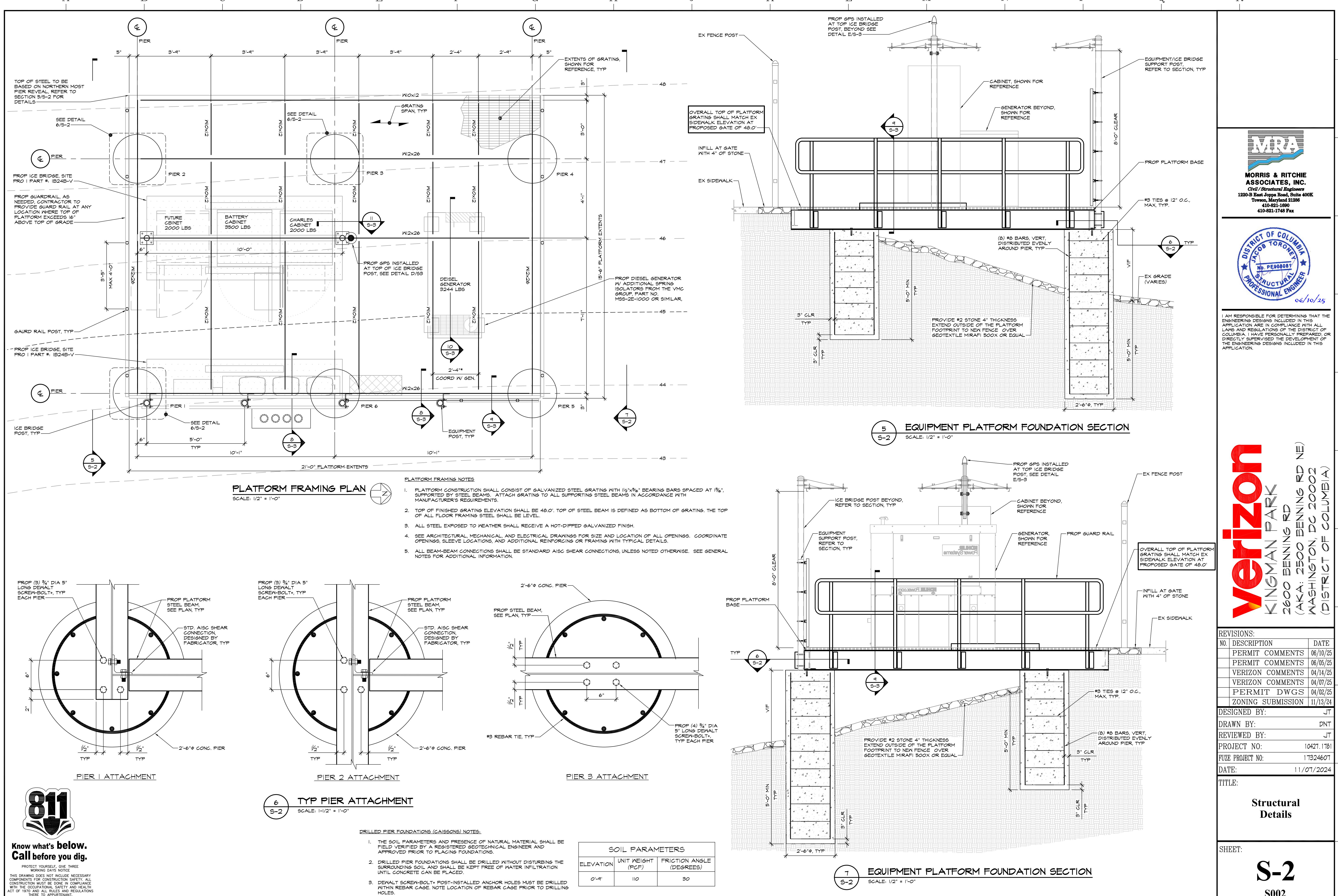
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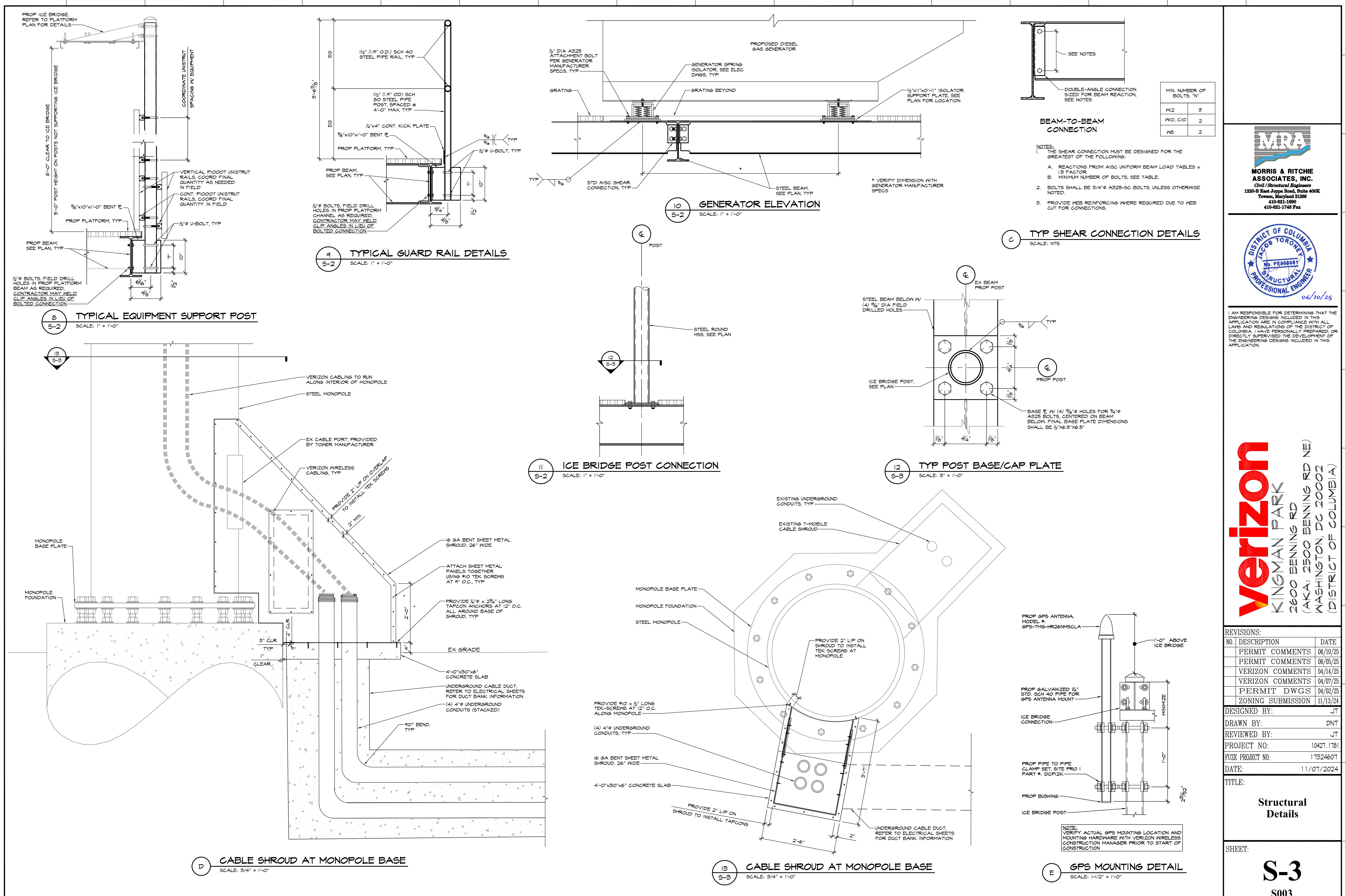


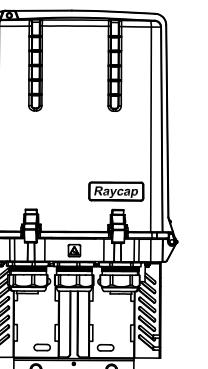
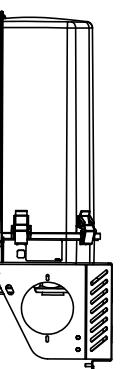
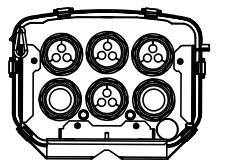










A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R																			
<p>RAYCAP RVZDC-6627-PF-48 DISTRIBUTION BOX DETAIL</p> <p>NOT TO SCALE</p> <p>FRONT </p> <p>SIDE </p> <p>BOTTOM </p> <p>MANUFACTURER: RAYCAP MODEL #: RVZDC-6627-PF-48 (12 OVP) DIMENSIONS: 12.6" D x 16.5" W x 29.5" H WEIGHT: 32 LBS (SYSTEM)</p> <p>GENERAL STRUCTURAL NOTES</p> <p>BUILDING CODES</p> <p>A. ALL CONSTRUCTION SHALL CONFORM WITH THE 2017 DC CONSTRUCTION CODES (INTERNATIONAL BUILDING CODE (IBC 2015)) AND ALL SUBSEQUENT SUPPLEMENTS.</p> <p>B. ANSI/TIA-222-H-2017 "STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS", AND ALL SUBSEQUENT SUPPLEMENTS.</p> <p>C. IN ADDITION, ALL CONSTRUCTION SHALL CONFORM WITH ANY LOCAL CODES AND REQUIREMENTS.</p> <p>DESIGN LOADS</p> <p>A. THE DESIGN DEAD LOADING FOR ALL FRAMING IS BASED ON THE CONSTRUCTION MATERIALS SHOWN ON THE DRAWINGS. ALL FRAMING IS DESIGNED AS FOLLOWS:</p> <p>SELF-WEIGHT OF STRUCTURAL STEEL GRATING EQUIPMENT: 10 PSF 2,000 LBS (CHARLES CABINET) 3,500 LBS (BATTERY CABINET) 9,244 LBS (DEIESEL GENERATOR)</p> <p>B. THE MINIMUM DESIGN UNIFORMLY DISTRIBUTED LIVE LOADING FOR ALL NEW FRAMING HAS BEEN DESIGNED AS FOLLOWS:</p> <p>PLATFORM 30 PSF</p> <p>C. SNOW LOAD DESIGN DATA</p> <p>GROUND SNOW LOAD: PSF = 25 PSF SNOW EXPOSURE FACTOR: CE = 1.0 THERMAL FACTOR: CT = 1.0 SNOW LOAD IMPORTANCE FACTOR: IS = 1.0 FLAT ROOF SNOW LOAD: PF = 30 PSF (DC MINIMUM)</p> <p>D. WIND LOAD DESIGN DATA</p> <p>ULTIMATE WIND SPEED (NO ICE): VULT = 115 MPH BASIC WIND SPEED (WITH ICE): VI = 40 MPH DESIGN RADIAL (ICE THICKNESS): I" (ICE THICKNESS INCREASES W/ HEIGHT) RESPONSE CATEGORY: II EXPOSURE CATEGORY: C TOPOGRAPHIC CATEGORY: I</p> <p>E. EARTHQUAKE LOAD DESIGN DATA</p> <p>SHORT PERIOD ACCELERATION, SS: 0.132 G ONE SECOND PERIOD ACCELERATION, S1: 0.043 G SITE CLASS: D (BY DEFAULT) DAMPED SHORT PERIOD ACCELERATION, SDS: 0.141 G RESPONSE MODIFICATION FACTOR, R: 2.0 (MOUNTS) SEISMIC RESPONSE COEFFICIENT, CS: 0.071 G</p> <p>F. THE CONTRACTOR SHALL NOT STORE ANY CONSTRUCTION MATERIALS OR UNDERTAKE ANY CONSTRUCTION OPERATION WHICH WILL EXCEED THE DESIGN LIVE LOADINGS NOTED.</p> <p>G. THE FRAMING HAS BEEN DESIGNED FOR THE WEIGHT OF EQUIPMENT SHOWN ON THE STRUCTURAL DRAWINGS. IF ACTUAL WEIGHT OF EQUIPMENT EXCEEDS THAT SHOWN OR IF EQUIPMENT NOT SHOWN EXCEEDS 500 POUNDS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.</p> <p>H. STRUCTURAL COMPONENTS ARE NOT DESIGNED FOR VIBRATING EQUIPMENT. MOUNT VIBRATING EQUIPMENT ON VIBRATION ISOLATORS.</p> <p>EXISTING STRUCTURE</p> <p>A. ALL EXISTING PLANS, DETAILS, DIMENSIONS, AND ELEVATIONS INDICATE EXISTING CONDITIONS AS KNOWN. THE EXISTING INFORMATION SHOWN IS NOT INTENDED TO BE "AS BUILT" AND THE ACTUAL CONSTRUCTION MAY DIFFER FROM THAT SHOWN. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING DIMENSIONS AND ELEVATIONS PRIOR TO STARTING CONSTRUCTION. ANY VARIATIONS CAN BE EXPECTED AND ANY REQUIRED DEVIATION FROM THE CONTRACT DOCUMENTS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.</p> <p>B. CONTRACTOR TO PROVIDE TEMPORARY SUPPORT FOR ALL EXISTING APPURTENANCES, AS NEEDED, DURING CONSTRUCTION.</p> <p>C. CONTRACTOR SHALL PROTECT ALL EXISTING APPURTENANCES FROM DAMAGE DURING CONSTRUCTION.</p> <p>D. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRS TO ANY STRUCTURAL ELEMENTS WHICH ARE TO REMAIN AND THAT HAVE BEEN DAMAGED TO THE COMPLETE SATISFACTION OF THE OWNER. THE REPAIRS SHALL BE AT NO EXPENSE TO THE OWNER. ALL REPAIR WORK SHALL BE DESIGNED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE THAT THE PROJECT IS LOCATED AND SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO COMMENCING REPAIR WORK.</p> <p>E. DO NOT PERMIT PORTIONS OF THE STRUCTURE TO FALL NOR DEBRIS TO DROP EXCEPT BY METHODS WHICH WILL ENSURE INTEGRITY OF THE STRUCTURE.</p> <p>F. THE CONTRACTOR SHALL MONITOR THE EXISTING STRUCTURE DURING CONSTRUCTION. IMMEDIATELY NOTIFY THE ENGINEER OF AREAS EXHIBITING DISTRESS OR FAILURE.</p> <p>MISCELLANEOUS</p> <p>A. ALL WORK SHALL BE PERFORMED IN CALM WEATHER, WITH WIND GUSTS LESS THAN 20 MPH.</p> <p>B. SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS MUST BE SUBMITTED BY THE CONTRACTOR OR OWNER FOR REVIEW BY THE ENGINEER. IF THE CONTRACTOR OR OWNER FAILS TO SUBMIT THE SHOP DRAWINGS, THE ENGINEER WILL NOT BE RESPONSIBLE FOR STRUCTURAL CERTIFICATION AND DESIGN OF THE PROJECT. THE SHOP DRAWINGS SHALL INDICATE ANY DEVIATIONS OR OMISSIONS FROM THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMISSION AND MAKE ALL CORRECTIONS DEEMED NECESSARY.</p> <p>C. SEE ARCHITECTURAL, CIVIL, AND MEP CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION RELATING TO THE COORDINATION OF STRUCTURAL COMPONENTS.</p> <p>D. THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL, CIVIL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR LOCATION AND DIMENSION OF CHASES, INSERTS, OPENINGS, SLEEVES, DEPRESSIONS, AND OTHER PROJECT REQUIREMENTS WHICH IMPACT THE STRUCTURAL COMPONENTS. THE STRUCTURAL CONSTRUCTION DRAWINGS DO NOT SHOW ALL OPENINGS REQUIRED FOR ADAPTION TO THE EXISTING STRUCTURE. THESE ARE REQUIRED BY OTHER DISCIPLINES AND SHALL BE CONSTRUCTED USING THE TYPICAL DETAILS AND CRITERIA INDICATED THE STRUCTURAL DRAWINGS. OPENINGS REQUIRED BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS MUST BE APPROVED BY THE STRUCTURAL ENGINEER.</p> <p>E. IN CASES OF CONFLICT BETWEEN THE DRAWINGS AND/OR SPECIFICATIONS AND OTHER DISCIPLINES OR EXISTING CONDITIONS, CONTRACTOR SHALL NOTIFY THE DESIGN PROFESSIONALS AND OBTAIN CLARIFICATION PRIOR TO BIDDING AND PROCEEDING WITH WORK.</p> <p>F. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS SHOWN ON THE CONTRACT DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION. ALL DISCREPANCIES AND OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.</p> <p>G. THE CONTRACTOR SHALL NOT SUBMIT REPRODUCTIONS OF THE STRUCTURAL CONTRACT DOCUMENTS AS SHOP DRAWINGS.</p> <p>H. SCALES SHOWN ON THE STRUCTURAL CONTRACT DRAWINGS ARE FOR GENERAL INFORMATION ONLY. DIMENSIONAL INFORMATION SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.</p> <p>I. APPLY DETAILS, SECTIONS AND NOTES ON THE DRAWINGS WHERE CONDITIONS ARE SIMILAR TO THOSE INDICATED BY DETAIL, DETAIL TITLE OR NOTE.</p> <p>J. THE CONTRACTOR SHALL VERIFY THAT CONSTRUCTION LOADS DO NOT EXCEED THE CAPACITY OF THE STRUCTURE AT THE TIME THE LOAD IS APPLIED.</p> <p>STRUCTURAL AND MISCELLANEOUS STEEL</p> <p>A. ALL STEEL CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE AISC STEEL CONSTRUCTION MANUAL "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (ANSI/AISC 360) AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".</p> <p>B. ALL MISCELLANEOUS STEEL (ANGLES, PLATES, ETC.) SHALL CONFORM TO ASTM A 36 HAVING A MINIMUM YIELD STRENGTH OF FY = 36,000 PSI.</p> <p>C. ALL STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A 53 GRADE "B", HAVING A MINIMUM YIELD STRENGTH OF FY = 35,000 PSI.</p> <p>D. ALL STRUCTURAL BOLTS SHALL CONFORM TO ASTM F3125 GRADE A325 (FU = 120 KSI).</p> <p>E. ALL U-BOLTS SHALL CONFORM TO SAE J429, GRADE 2 (FU = 14 KSI), WITH SAE J995 NUTS AND WASHERS.</p> <p>F. ALL NUTS SHALL CONFORM TO ASTM A563.</p> <p>G. ALL WASHERS SHALL CONFORM TO ASTM F436.</p> <p>GENERAL NOTES</p> <p>H. ALL SHOP AND FIELD WELDS REQUIRED BY THE SCOPE OF THIS PROJECT SHALL BE PERFORMED BY CERTIFIED WELDERS AND CONFORM TO THE AMERICAN WELDING SOCIETY CODE FOR BUILDINGS AND D1. WELDS SHALL DEVELOP THE FULL STRENGTH OF MATERIALS BEING WELDED UNLESS OTHERWISE INDICATED.</p> <p>I. ALL EXPOSED STRUCTURAL STEEL SHALL CONFORM TO THE AISC "SPECIFICATION FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL".</p> <p>J. THE CONTRACTOR SHALL NOT SPICE OR CUT OPENINGS IN STEEL MEMBERS NOT SHOWN ON CONTRACT DRAWINGS WITHOUT THE PERMISSION OF THE STRUCTURAL ENGINEER.</p> <p>K. AN INDEPENDENT INSPECTION AGENCY SHALL INSPECT ALL STRUCTURAL STEEL AND VERIFY THAT IT CONFORMS TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. FIELD INSPECTION REPORTS SHALL BE SUBMITTED TO THE ENGINEER WITHIN 5 DAYS OF THE INSPECTION. THE CONTRACTOR SHALL NOTIFY THE INSPECTION AGENCY OF ALL PHASES OF STEEL CONSTRUCTION AND WELDING.</p> <p>L. STEEL MEMBERS, FABRICATIONS AND ASSEMBLIES INDICATED TO BE GALVANIZED SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A 123 AFTER FABRICATION. ALL EXPOSED STEEL MEMBERS SHALL BE HOT DIPPED GALVANIZED. ALL BOLTS, WASHERS & NUTS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM F2329.</p> <p>M. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.</p> <p>N. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS INDICATING THE SIZES, EXTENT, AND LOCATION OF ALL STRUCTURAL AND MISCELLANEOUS STEEL FRAMING INCLUDING ALL CONNECTIONS, FASTENERS, AND BEARINGS.</p> <p>CAST IN PLACE CONCRETE</p> <p>A. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301)", AND TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318)".</p> <p>B. IN ADDITION TO THE ABOVE, ALL CONCRETE WORK SHALL CONFORM TO THE FOLLOWING:</p> <p>RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING (ACI 305). RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING (ACI 306). RECOMMENDED PRACTICE FOR CONCRETE FORMWORK (ACI 347). STANDARD SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS (ACI 117). CHEMICAL ADMIXTURES FOR CONCRETE (ACI 212.3). STANDARD SPECIFICATION FOR CURING CONCRETE (ACI 308). STANDARD SPECIFICATION FOR ARCHITECTURAL CONCRETE (ACI 301).</p> <p>C. ALL CONCRETE EXPOSED TO PUBLIC VIEW SHALL CONFORM TO THE REQUIREMENTS FOR ARCHITECTURAL CONCRETE CONTAINED IN ACI 301.</p> <p>D. ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL BE STONE AGGREGATE CONCRETE HAVING A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,500 PSI. ALL CONCRETE EXPOSED TO WEATHERING SHALL HAVE AN AIR ENRAINTMENT OF 6% +/- 1%. NO ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL BE USED. EXCEPT FOR CONCRETE AGGREGATE, 50% MAX. COARSE AND MAXIMUM SLUMP SHALL BE 4". MAXIMUM WATER / CEMENT (W/C) RATIO = 0.45. ALL CONCRETE, EXCEPT FOOTINGS, SHALL CONTAIN A WATER REDUCING ADMIXTURE. PORTLAND CEMENT SHALL CONFORM TO ASTM C150 AND NORMAL WEIGHT AGGREGATES SHALL CONFORM TO ASTM C33.</p> <p>E. ALL CONCRETE MIX DESIGNS, INCLUDING CEMENT CONTENT, WATER CEMENT RATIO, FINE AND COARSE AGGREGATE CONTENT AND ALL ADMIXTURES, SHALL BE REVIEWED BY ENGINEER PRIOR TO PLACING FIRST CONCRETE.</p> <p>F. ALL CONCRETE SHALL BE SAMPLED AND TESTED BY THE TESTING AGENCY. THE CONTRACTOR SHALL NOTIFY THE TESTING AGENCY 48 HOURS PRIOR TO THE PLACING OF ANY CONCRETE. TESTING SHALL BE IN ACCORDANCE WITH ASTM C107.</p> <p>G. THE CONCRETE STRUCTURE SHALL NOT SUPPORT THE DESIGN LIVE LOAD FOR A MINIMUM OF 28 DAYS AND ALL SHORING AND RE-SHORING REQUIRED TO SUPPORT THE CONCRETE STRUCTURE DURING CONSTRUCTION SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR. SHOP DRAWINGS SIGNED AND SEALED BY A REGISTERED ENGINEER IN THE STATE OF MARYLAND SHALL BE SUBMITTED FOR REVIEW. SHOP DRAWINGS SHALL INDICATE THE TYPE, EXTENT, SIZE, AND LOCATION OF ALL SHORING AND RE-SHORING AS WELL AS THE SEQUENCE OF CONSTRUCTION.</p> <p>H. GROUND BLAST FURNACE SLAG MAY BE USED TO REPLACE UP TO 50 PERCENT OF THE PORTLAND CEMENT IN A CONCRETE MIX, AND FLY ASH OR POZZOLAN MAY BE USED TO REPLACE UP TO 25 PERCENT OF PORTLAND CEMENT, SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND SHALL CONFORM TO ASTM C1494.</p> <p>I. ALL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615 GRADE 60 (FY = 60 KSI).</p> <p>J. LAP ALL REINFORCING BARS A MINIMUM OF 48 BAR DIAMETERS, UNLESS OTHERWISE INDICATED.</p> <p>K. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE CIRI "MANUAL OF STANDARD PRACTICE", ACI 318" DETAILS AND DETAILING OF CONCRETE REINFORCEMENT", ACI SP 66 "DETAILED MANUAL".</p> <p>L. MINIMUM COVER FOR ALL REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED:</p> <p>SLAB-ON-GRADE 3 INCHES (TOP, BOTTOM, & SIDES)</p> <p>M. ALL CAST-IN-PLACE CONCRETE WILL EXPERIENCE DIFFERING VARIATIONS OF CRACKING. ANY ELEMENT EXPOSED TO DIRECT WEATHER AND/OR TEMPERATURE VARIATIONS DURING CONSTRUCTION OR IN THE FINAL CONDITION IS TO BE TREATED AND REGULARLY MAINTAINED TO PREVENT PROPAGATION OF CRACKS AND WATER INFILTRATION. THE CONTRACTOR SHALL DEVELOP A REGULAR MAINTENANCE PROGRAM AND SUBMIT IT TO THE OWNER.</p> <p>N. ALL CONCRETE CONSTRUCTION SHALL BE INSPECTED IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.</p> <p>POST-MODIFICATION INSPECTION</p> <p>A. A POST-MODIFICATION INSPECTION REPORT IS REQUIRED AND SHALL BE INCLUDED IN THE CONTRACTOR'S BUILDING PERMIT. THE INSPECTION IS A VISUAL INSPECTION OF THE APPURTENANCE CONFIGURATION AND VIEWS OF MATERIAL SUBMITTALS OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY THE CONSTRUCTION DRAWINGS.</p> <p>B. THE POST-MODIFICATION INSPECTION REPORT SHALL BE COMPLETED BY A PROFESSIONAL ENGINEER LICENSED IN THE JURISDICTION IN WHICH THE PROJECT IS LOCATED.</p> <p>C. THE INTENT OF THE POST-MODIFICATION INSPECTION REPORT IS TO CONFIRM INSTALLATION AND CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE CONSTRUCTION DESIGN ITSELF.</p> <p>D. TO ENSURE THAT THE REQUIREMENTS OF THE POST-MODIFICATION INSPECTION REPORT ARE MET, IT IS VITAL THAT THE CONTRACTOR AND POST-MODIFICATION INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A P.O. IS RECEIVED.</p> <p>E. DETAILS.</p> <p>REVISIONS:</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>PERMIT COMMENTS</td> <td>06/10/25</td> </tr> <tr> <td>2</td> <td>PERMIT COMMENTS</td> <td>06/05/25</td> </tr> <tr> <td>3</td> <td>VERIZON COMMENTS</td> <td>04/14/25</td> </tr> <tr> <td>4</td> <td>VERIZON COMMENTS</td> <td>04/07/25</td> </tr> <tr> <td>5</td> <td>PERMIT DWGS</td> <td>04/02/25</td> </tr> <tr> <td>6</td> <td>ZONING SUBMISSION</td> <td>11/13/24</td> </tr> </tbody> </table> <p>DESIGNED BY: JT</p> <p>DRAWN BY: DNT</p> <p>REVIEWED BY: JT</p> <p>PROJECT NO: 10421.1181</p> <p>FUZE PROJECT NO: 17324607</p> <p>DATE: 11/07/2024</p> <p>TITLE:</p> <p style="text-align: center;">Structural Details & Notes</p> <p>SHEET: S-4</p> <p>Page: S004</p>														NO.	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ELECTRICAL SPECIFICATION

I. SECTION 16010 - BASIC ELECTRICAL REQUIREMENTS

- A. THE WORK INCLUDES FURNISHING AND INSTALLING THE MATERIAL, EQUIPMENT AND SYSTEMS COMPLETE AS SPECIFIED AND/OR INDICATED ON THE DRAWINGS. THE ELECTRICAL INSTALLATIONS, WHEN FINISHED, SHALL BE COMPLETE AND COORDINATED AND READY FOR SATISFACTORY SERVICE.
- B. ALL WORK UNDER THIS CONTRACT SHALL BE DONE IN STRICT ACCORDANCE WITH ALL APPLICABLE MUNICIPAL, STATE, BOCA, AND LOCAL ELECTRICAL CODES THAT GOVERN EACH PARTICULAR TRADE AND THE 2017 NATIONAL ELECTRICAL CODE.
- C. THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL EQUIPMENT INSTALLATION WITH ALL TRADES.
- D. THE CONTRACTOR SHALL MAKE APPLICATION AND PAY ALL CHARGES FOR ALL NECESSARY PERMITS, LICENSES, AND INSPECTIONS AS REQUIRED UNDER THE ABOVE CODES. UPON COMPLETION OF THE WORK, THE CUSTOMARY CERTIFICATIONS OF APPROVAL SHALL BE FURNISHED.
- E. NO MATERIALS OR EQUIPMENT SHALL BE USED IN THE WORK UNTIL APPROVED. ALL MATERIALS SHALL BE U.L. LISTED.
- F. THE CONTRACTOR SHALL EXAMINE ALL DRAWINGS AND SHALL INSPECT THE EXISTING CONDITIONS OF THE SITE. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLYING WITH THE CONTRACT DOCUMENTS.
- G. THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF THE ELECTRICAL INSTALLATIONS. DETAILS OF PROPOSED DEPARTURES DUE TO ACTUAL FIELD CONDITIONS OR OTHER CAUSES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION. REWORK OF COMPLETED ITEMS DUE TO IMPROPER FIELD COORDINATION SHALL BE AT THE CONTRACTOR'S EXPENSE.
- H. PROVIDE SUFFICIENT ACCESS AND CLEARANCE FOR ALL ITEMS OF EQUIPMENT REQUIRING SERVICING AND MAINTENANCE.
- I. THE CONTRACTOR SHALL PERFORM ALL NECESSARY CUTTING AND PATCHING AS REQUIRED TO COMPLETE THE INSTALLATIONS. PATCHING OF WALLS, FLOORS, CEILINGS, ETC. SHALL MATCH THE ADJACENT SURFACES.
- J. THE CONTRACTOR SHALL PREPARE THREE (3) COPIES OF A RECORD AND INFORMATION BOOKLET. THE BOOKLET SHALL BE BOUND IN A THREE RING LOOSE-LEAF BINDER AND INCLUDE ALL ITEMS OF ELECTRICAL EQUIPMENT.
- K. UPON COMPLETION OF THE ELECTRICAL INSTALLATION, THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF PRINTS OF THE ELECTRICAL CONTRACT DRAWINGS WHICH SHALL BE LEGIBLY MARKED IN RED TO SHOW ALL CHANGES AND DEPARTURES OF THE INSTALLATIONS COMPARED WITH THE ORIGINAL DESIGN. THEY SHALL BE SUITABLE FOR USE IN PREPARATION OF RECORD DRAWINGS.
- L. GUARANTEE: ALL NEW ELECTRICAL INSTALLATIONS SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR BEGINNING THE DAY OF THE FINAL ACCEPTANCE OF THE WORK OR BENEFICIAL OCCUPANCY OF THE OWNER, WHICHEVER OCCURS FIRST. THE ABOVE SHALL NOT IN ANY WAY VOID OR ABROGATE EQUIPMENT MANUFACTURER'S GUARANTEE OR WARRANTY. CERTIFICATES OF GUARANTEE SHALL BE DELIVERED TO THE OWNER. UPON RECEIPT OF NOTICE FROM THE OWNER OF FAILURE OF ANY PART OF THE ELECTRICAL INSTALLATION DURING THE GUARANTEE PERIOD, NEW REPLACEMENT PARTS SHALL BE FURNISHED AND INSTALLED PROMPTLY AND AT NO COST TO VERIZON.
- M. ANY ELECTRICAL WORK WHICH WILL INTERFERE WITH THE NORMAL USE OF THE BUILDING IN ANY MANNER SHALL BE DONE AT SUCH TIME OR TIMES AS SHALL BE MUTUALLY AGREED UPON BETWEEN THE CONTRACTOR AND THE VERIZON REPRESENTATIVE.
- N. SUPPORTS, HANGERS, AND FOUNDATIONS: PROVIDE ALL SUPPORTS, HANGERS, BRACES, ATTACHMENTS, AND FOUNDATIONS REQUIRED FOR THE WORK. SUPPORT AND SET THE WORK IN A THOROUGHLY SUBSTANTIAL AND WORKMANLIKE MANNER WITHOUT PLACING STRAINS ON THE MATERIALS, EQUIPMENT, OR THE BUILDING STRUCTURE. SUPPORTS, HANGERS, BRACES AND ATTACHMENTS SHALL BE STANDARD MANUFACTURED ITEMS OR FABRICATED STRUCTURAL STEEL SHAPES.
- O. THERE SHALL BE NO INTERRUPTION OF POWER TO EXISTING ELECTRICAL SYSTEMS WITHOUT PRIOR CONSENT FROM VERIZON. SUCH INTERRUPTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE SCHEDULED WITH THE OWNER AT LEAST THREE BUSINESS DAYS IN ADVANCE OF THE OUTAGE. ANY COST FOR WORK THAT MUST BE DONE ON AN OVERTIME BASIS SHALL BE INCLUDED IN THE BID.
- P. MOUNTING AND SUPPORTING OF ALL EQUIPMENT PROVIDED BY THIS CONTRACTOR SHALL BE COORDINATED WITH VERIZON IN THE FIELD.
- Q. PROVIDE ALL CUTTING AND PATCHING NECESSARY FOR THE INSTALLATION OF THE ELECTRICAL WORK. ANY DAMAGE DONE TO THE WORK ALREADY IN PLACE BY REASON OF THIS WORK SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE BY A QUALIFIED MECHANIC EXPERIENCED IN SUCH WORK. PATCHING SHALL BE UNIFORM IN APPEARANCE AND SHALL MATCH THE SURROUNDING SURFACE. ALL PENETRATIONS THROUGH WALLS OF NEW ROOM SHALL BE SEALED WEATHERTIGHT.

2. SECTION 16050 - BASIC ELECTRICAL MATERIALS & METHODS

- A. CONDUIT & BOXES:
 1. ALL CONDUIT BELOW GRADE SHALL BE SCHEDULE 40 PVC. ALL CONDUIT ABOVE GRADE AND EXPOSED TO WEATHER SHALL BE RIGID GALVANIZED STEEL.
 2. JUNCTION AND PULL BOXES SHALL BE FURNISHED AND INSTALLED AS SHOWN OR WHERE REQUIRED TO FACILITATE PULLING OF WIRES OR CABLES. SUCH BOXES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS. GASKETED COVER PLATES SHALL BE FURNISHED FOR OUTDOOR INSTALLATIONS.
 3. ALL BOXES, WHETHER OUTLET, JUNCTION, PULL, OR EQUIPMENT SHALL BE FURNISHED WITH APPROPRIATE COVERS.
 4. NO SECTIONALIZED BOXES SHALL BE USED.
 5. ALL EMT CONDUIT FITTINGS SHALL BE COMPRESSION TYPE.
 6. ALL FIELD CUTS OF GALVANIZED ITEMS SHALL BE BRUSHED WITH MARINE GRADE GALVANIZING.
 7. ALL METALLIC OBJECTS EXPOSED TO WEATHER SHALL BE GALVANIZED STEEL.
- B. WIRES & CABLE:
 1. BUILDING WIRE, UNLESS OTHERWISE INDICATED, SHALL BE 600 VOLT, TYPE THWN INSULATION FOR INTERIOR AND EXTERIOR USE. CONDUCTORS SHALL BE SOFT DRAWN COPPER OF NOT LESS THAN 98% CONDUCTIVITY. NO ROMEX OR AC (BX) WIRE WILL BE ALLOWED ON THE PROJECT.

2. NO WIRE SMALLER THAN NO. TWELVE (12) AWG SHALL BE USED UNLESS OTHERWISE INDICATED. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND FROM TERMINAL BOARD TO POINT OF FINAL CONNECTION, AND NO SPLICE SHALL BE MADE EXCEPT WITHIN OUTLET OR JUNCTION BOXES. ALL CONDUCTORS SHALL BE OF THE SIZES AS INDICATED. ALL WIRES NO. EIGHT (8) AWG AND LARGER SHALL BE STRANDED. THE CONTRACTOR SHALL MAKE WIRING CONNECTIONS OF ALL ELECTRICAL EQUIPMENT REQUIRING ELECTRICAL SERVICE. WIRES AND CABLES SHALL BE AS MANUFACTURED BY PIRELLI, ROYAL, AND TRIANGLE OR EQUIVALENT.

3. ALL WIRING SHALL BE COLOR CODED. MATCH EXISTING SYSTEM COLOR CODING WHERE APPLICABLE.

DISCONNECTS:

I. FURNISH AND INSTALL SAFETY SWITCHES WHERE INDICATED AND AS REQUIRED FOR MOTOR OUTLETS OR OTHER EQUIPMENT. SWITCHES SHALL BE OF SIZE, NUMBER OF POLES AND FUSED OR NON-FUSED, AS REQUIRED FOR JOB CONDITIONS AND THE NATIONAL ELECTRICAL CODE.

PANELBOARDS:

I. THE CONTRACTOR SHALL BALANCE THE LOADS ON ALL PANELBOARDS AS CLOSELY AS POSSIBLE AND TO THE SATISFACTION OF THE ENGINEER.

2. FURNISH AND INSTALL, WHERE INDICATED ON THE DRAWINGS, AUTOMATIC CIRCUIT BREAKER PANELBOARDS COMPLETE WITH ENCLOSING CABINETS. ENCLOSURES SHALL BE NEMA 3R WHERE EXPOSED TO WEATHER AS INDICATED. PANELBOARDS AND ENCLOSING CABINETS SHALL CONFORM TO STANDARDS ESTABLISHED BY UNDERWRITERS' LABORATORIES, INC. AND REQUIREMENTS OF THE NATIONAL ELECTRIC CODE.

3. ALL PANELBOARD INTERIORS SHALL BE FACTORY ASSEMBLED, COMPLETE WITH CIRCUIT BREAKERS AS SCHEDULED ON THE DRAWINGS. INTERIORS SHALL BE DESIGNED AND ASSEMBLED SO THAT ANY INDIVIDUAL BREAKER CAN BE REPLACED WITHOUT DISTURBING ADJACENT UNITS, WITHOUT REMOVING MAIN BUS, AND SHALL EMPLOY SEQUENCE BUSSING. MAIN BUSSES AND BACK PANS OF DISTRIBUTION AND POWER PANELBOARDS SHALL BE OF SUCH DESIGN THAT BRANCH CIRCUITS MAY BE CHANGED WITHOUT ADDITIONAL DRILLING, MACHINING, OR TAPPING. ALL CIRCUIT BREAKERS SHALL BE QUICK-MAKE AND SHALL BE TRIP INDICATING.

4. PANELBOARDS SHALL EMPLOY PLUG-IN BREAKERS OF NOT LESS THAN 22,000 SYMMETRICAL A.I.C. AT 120 VOLTS OR 240 VOLTS AS REQUIRED. PANELBOARDS SHALL BE EQUIPPED WITH COPPER BUS BARS. FURNISH SQUARE D, GENERAL ELECTRIC, OR WESTINGHOUSE AS INDICATED ON THE PANELBOARD SCHEDULE AND AS FOLLOWS:

<u>MANUFACTURER</u>	<u>DESIGNATION</u>	<u>TYPE</u>
INTERSECT	"PPI"	AA300G-IPH-42-3R

(INTEGRATED LOAD CENTER PANEL WITH INTEGRAL AUTOMATIC TRANSFER SWITCH AND SURGE SUPPRESSION)

5. PANELBOARDS SHALL BE EQUIPPED WITH A TYPEDIRECTORY, INDICATING PLAINLY WHAT EACH CIRCUIT OF THE PANEL CONTROLS.

6. PANELBOARD SHALL BE EQUIPPED WITH A COVER THAT HAS A CLASP THAT ALLOWS FOR THE INSTALLATION OF A PAD LOCK. PANELBOARD SHALL NOT BE EQUIPPED WITH KEY LOCK COVER.

7. PANELBOARDS SHALL EMPLOY PLUG-IN CIRCUIT BREAKERS ONLY, BOLT-ON CIRCUIT BREAKERS SHALL NOT BE USED.

GROUNDING:

I. PROVIDE GROUND FOR ALL RACEWAYS, DEVICES, AND UTILIZATION EQUIPMENT PERMANENTLY AND EFFECTIVELY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, AS HERINAFTER SPECIFIED. ALL GROUNDING AND BONDING CONNECTIONS SHALL BE SOLDERLESS.

2. PROVIDE INSULATED GROUNDING CONDUCTORS FOR FEEDER AND BRANCH CIRCUIT WIRING AS CALLED FOR ON THE PLANS. PROVIDE GROUNDING BLOCKS, TERMINALS, ETC., FOR CONNECTION OF GROUND WIRE IN ALL DISTRIBUTION EQUIPMENT.

SECTION 16400 - SERVICE & DISTRIBUTION

ELECTRICAL SERVICE:

I. ELECTRICAL POWER TO THE NEW EQUIPMENT PLATFORM SHALL BE EXTENDED FROM THE EXISTING METER STACK MOUNTED ON EXISTING ELECTRIC SERVICE BACKBOARD. LABEL METER AND CIRCUIT BREAKER WITH PHENOLIC NAMEPLATES READING "VERIZON".

COMMUNICATIONS SERVICE:

I. TELEPHONE SERVICE SHALL BE EXTENDED BY THE TELEPHONE COMPANY. PROVIDE SERVICE CONDUITS, BACKBOARDS, SLEEVES, AND OTHER EQUIPMENT SHOWN ON THE DRAWINGS FOR USE BY THE TELEPHONE COMPANY. ALL CHARGES BY THE UTILITY COMPANY SHALL BE PAID BY THE OWNER.

2. ALL ELBOWS IN CONDUIT RUNS SHALL BE WIDE SWEEP FIELD BENDS. INSTALL PULL BOXES AS REQUIRED AND WHERE DIRECTED BY THE TELEPHONE COMPANY AND/OR AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.

3. PROVIDE 1/4" POLYPROPYLENE PULL ROPE IN ALL CONDUITS LEFT EMPTY. ALL CONDUITS SHALL BE TERMINATED WITH NYLON INSULATING BUSHINGS.

4. PROVIDE ONE (1) CONDUIT AS SHOWN ON DRAWINGS BETWEEN TELEPHONE COMPANY DEMARC AND DEMARC LOCATED ON EQUIPMENT BACKBOARD.

5. FIBER SPLICES, IF NECESSARY, SHALL BE FUSION SPLICES. MECHANICAL CONNECTIONS ARE NOT PERMITTED.

STAND-BY GENERATOR:

I. THE CONTRACTOR SHALL INSTALL THE OWNER FURNISHED KOHLER STAND-BY GENERATOR. VERIZON WIRELESS HAS PRE-PURCHASED THE FOLLOWING EQUIPMENT:

GENERATOR: 120/240 VOLT, 1Φ, 3 WIRE, 30 KW DIESEL POWERED GENERATOR WITH A SOUND ATTENUATED, WEATHERPROOF ENCLOSURE. GENERATOR SHALL BE FURNISHED WITH A 2P150A MAIN LINE CIRCUIT BREAKER.

2. COORDINATE ALL INSTALLATION REQUIREMENTS WITH VERIZON WIRELESS AND THE EQUIPMENT MANUFACTURER.

3. PROVIDE ALL MATERIALS FOR STARTUP AND TESTING; TURN OVER A COMPLETE, FUNCTIONAL SYSTEM TO VERIZON WIRELESS.

4. GENERATOR SHALL BE SUPPLIED WITH WEATHERPROOF HOUSING, SILENCER MOUNTING KIT FOR HOUSING AND CRITICAL EXHAUST SILENCER.

5. WHEN ORDERING THE GENERATOR, INCLUDE FOUR (4) VIBRATION SPRING

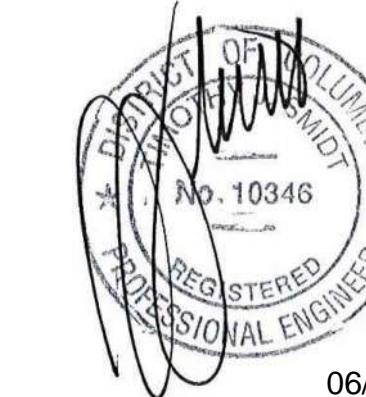
ELECTRICAL SYMBOLS LIST

NOTE: ALL MOUNTING HEIGHTS ARE TO CENTER LINE OF THE OUTLET BOX UNLESS OTHERWISE INDICATED.

	ENCLOSED CIRCUIT BREAKER
	DISCONNECT SWITCH - FUSED/NON FUSED
	120/240V, 1Φ, INTERSECT PANEL
	EQUIPMENT MOUNTING BACKBOARD
(5)	DRAWING NOTE
— — E — —	BURIED ELECTRIC FEEDERS
— — T — —	BURIED TELEPHONE SERVICE
— — — —	BURIED BRANCH CIRCUIT
	METER
↙ ↘	GROUND CONDUCTOR BELOW GRADE
● R	BURIED GROUND ROD
▼	DESIGNS FRONT
	DRY TYPE TRANSFORMER
	LIGHT FIXTURE - SURFACE MOUNT
\$ ^T	SWITCH - 120V, SINGLE POLE, 20A - TIMER

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06/10/2025

I AM RESPONSIBLE FOR DETERMINING THAT THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICATION ARE IN COMPLIANCE WITH ALL LAWS AND REGULATIONS OF THE DISTRICT OF COLUMBIA. I HAVE PERSONALLY PREPARED, OR DIRECTLY SUPERVISED THE DEVELOPMENT OF THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICATION.

(NEMA 3R)		PANEL PP			
120/240 VOLTS 1Φ 3 WIRE 200 AMP MAIN C.B.					
DESCRIPTION	B R K R	C K T	C K T	B R K R	DESCRIPTION
EQUIPMENT LIGHTING	20	1		2	20 BATTERY CHARGER
CHARLES CABINET RECPT.	20	3		4	20 BLOCK HEATER
* CHARLES CABINET RECTIFIER 1	30	5 7		6 30 8	CHARLES CABINET RECTIFIER 7
* CHARLES CABINET RECTIFIER 2	30	9 11		10 30 12	CHARLES CABINET RECTIFIER 8
* CHARLES CABINET RECTIFIER 3	30	13 15		14 30 16	CHARLES CABINET RECTIFIER 9
* CHARLES CABINET RECTIFIER 4	30	17 19		18 30 20	CHARLES CABINET RECTIFIER 10
* CHARLES CABINET RECTIFIER 5	30	21 23		22 30 24	CHARLES CABINET RECTIFIER 11
* CHARLES CABINET RECTIFIER 6	30	25 27		26 30 28	CHARLES CABINET RECTIFIER 12
SPACE	-	29		30 20	GFCI RECPETACLE
SPACE	-	31		32	- SPACE
SPACE	-	33		34	- SPACE
SPACE	-	35		36	- SPACE
SPACE	-	37		38	- SPACE
SPACE	-	39		40	- SPACE
SPACE	-	41		42	- SPACE
LIGHTING LOAD:	0.10 KVA x 125% = 0.13 KVA				
RECEPTACLE LOAD:	0.36 KVA				
MISC. LOAD:	1.69 KVA				
<u>CHARLES CABINET LOAD:</u>	11.52 KVA				
TOTAL LOAD:	13.70 KVA = 57.09 A @ 120/240V 1Φ 3W				

* CONTRACTOR SHALL FIELD COORDINATE OVERCURRENT PROTECTION WITH MANUFACTURER'S RECOMMENDATIONS.

** PANEL SCHEDULE SHALL NOT BE HAND-WRITTEN.

ELECTRICAL ENGINEER PROVIDED AND INSTALLED PEEL-AND-STICK PANEL SCHEDULE AT TIME OF PUNCH WALK. LABEL SHALL BE MOUNTED ON INSIDE COVER OF VERIZON WIRELESS PANEL "PPI". PANEL SCHEDULE SHALL BE TYPED (NOT HAND-WRITTEN) AND CLEARLY IDENTIFY EACH CIRCUIT AS SHOWN ON THE PANEL SCHEDULE ABOVE. CONTRACTOR SHALL CLEARLY LABEL EACH CIRCUIT

LIGHTING FIXTURE SCHEDULE

Type	Lamps	Mounting	Description/Voltage	Catalog No.
A	LUMEN SETTING MEDIUM POWER 4620 LUMENS 32 WATT LED 4000K	SURFACE	UL CERTIFIED WET LOCATION LED SURFACE MOUNT WITH RUGGED, WATERPROOF AND IMPACT-RESISTANCE HOUSING, UV STABILIZED HIGH IMPACT ACRYLIC LENS, AND INTEGRATED METAL GEAR TRAY. WHITE	METALUX LED VAPORTITE 4FT. CATALOG NUMBER: 4APVTLD-SL3C3

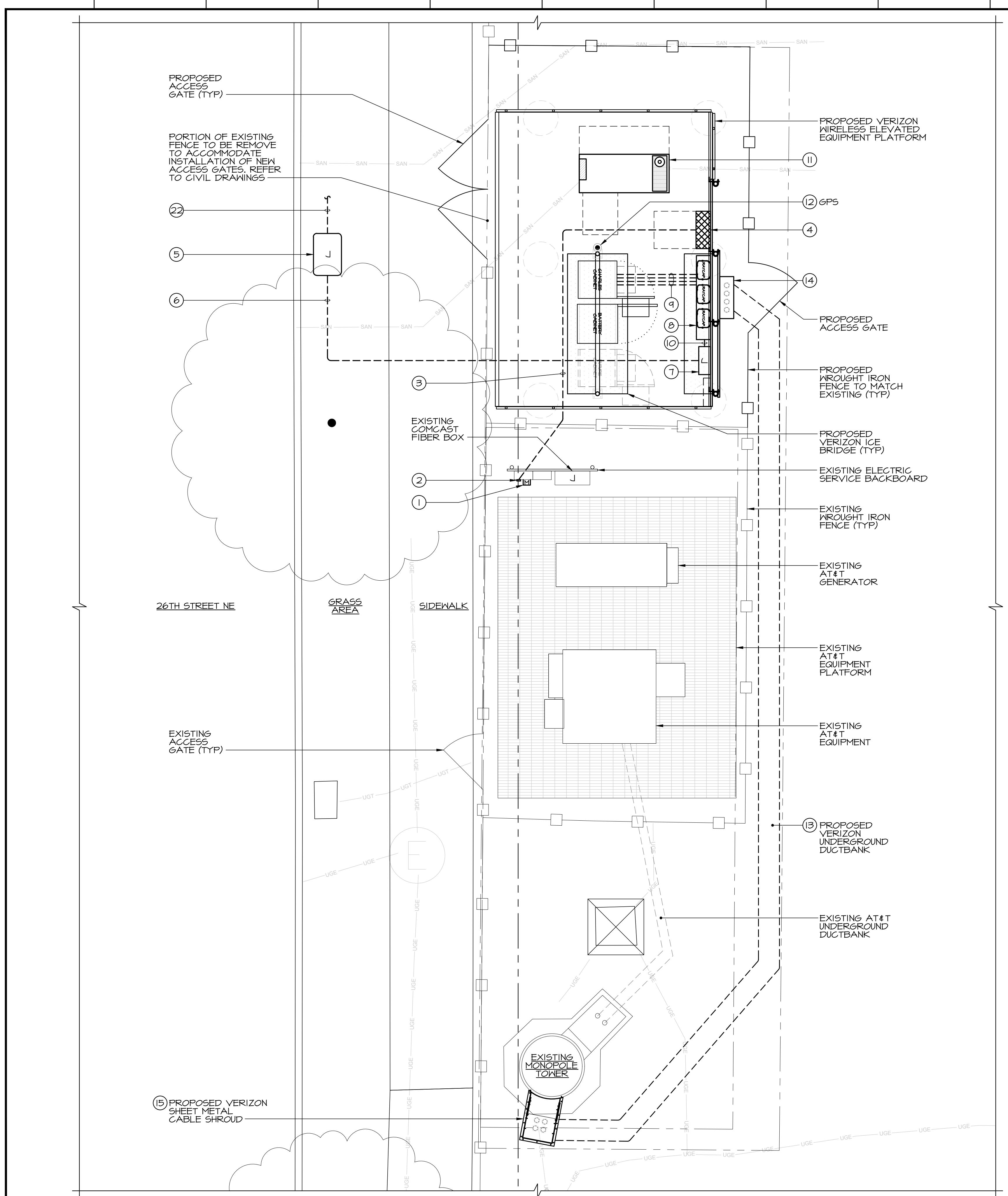
* NO PHOTOCELL OR MOTION DETECTOR. FIXTURE SHALL BE CONNECTED TO SWITCHED PORTION OF LIGHTING CIRCUIT AND BE CONTROLLED BY SPRING-WOUND TIMER SWITCH.

SCALE: AS

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DRAWING NOTES

- ① EXISTING 120/240V, 1Φ, 3W, 600A MLO, FOUR (4) POSITION METER STACK WITH PROVISIONS FOR FOUR (4) 2P 200A CIRCUIT BREAKERS TO REMAIN. PROVIDE PHENOLIC NAMEPLATE READING "VERIZON" BELOW POSITION OF METER. METER GLOBE PROVIDED AND INSTALLED BY UTILITY COMPANY.
- ② PROVIDE AND INSTALL ONE (1), 240 VOLT SERVICE ENTRANCE RATED, 2P 200A CIRCUIT BREAKER IN POSITION CONNECTED TO NEW VERIZON METER. PROVIDE PHENOLIC NAMEPLATE BELOW CIRCUIT BREAKER READING "VERIZON". COORDINATE A.I.C. RATING WITH UTILITY COMPANY PRIOR TO ORDERING. PROVIDE CAUTION TWO SOURCES OF SUPPLY STICKER ON CIRCUIT BREAKER. BACKGROUND SHALL BE YELLOW WITH BLACK BLOCK STYLE LETTERING. REFER TO DETAIL, SHEET E-3.
- ③ EXTEND 3#3/0 + #6 GRD - 2" CONDUIT BELOW GRADE. COORDINATE EXACT ROUTING WITH VERIZON REPRESENTATIVE IN THE FIELD.
- ④ VERIZON PROVIDED, CONTRACTOR INSTALLED WEATHERPROOF 120/240 VOLT, 1Φ, 3W, 200 AMP MCB INTEGRATED LOAD CENTER PANEL WITH INTEGRATED AUTOMATIC TRANSFER SWITCH AND SURGE PROTECTION. MOUNT PANEL ON PROPOSED VERIZON EQUIPMENT BACKBOARD. REFER TO PANEL SCHEDULE AND SPECIFICATIONS, SHEET E-1 FOR ADDITIONAL INFORMATION. COORDINATE ALL REQUIREMENTS WITH VERIZON REPRESENTATIVE PRIOR TO ORDERING. ALL CONDUITS FROM INTERSECT PANEL MUST ENTER/EXIT THROUGH SIDE, REAR OR BOTTOM. CONDUIT INSTALLATION MUST UTILIZE MYERS HUBS AND INCLUDE ALL NECESSARY FITTINGS, SEALANTS, ETC. TO MAINTAIN NEMA RATING OF ENCLOSURE. WHEN DRILLING INTO INTERSECT PANEL, ATS MUST BE COVERED TO AVOID METALLIC SHAVINGS DROPPING INTO ATS CONTACTS. PANELBOARD SHALL BE EQUIPPED WITH A COVER THAT HAS A CLASP THAT ALLOWS FOR THE INSTALLATION OF A PAD LOCK. PANELBOARD SHALL NOT BE EQUIPPED WITH KEY LOCK COVER. CONTRACTOR SHALL PROVIDE AND INSTALL VERIZON COMBINATION PADLOCK ON INTERSECT PANEL CLASP. PADLOCK SHALL BE 2 1/4" SESAMEE K47 COMBINATION PADLOCK, OR 1" SESAMEE KCRO436 CHROME PLATED COMBINATION PAD LOCK IN AREAS SUBJECT TO HIGH CORROSION.
- ⑤ PROPOSED FIBER HANHOLE FOR EXTENSION OF FIBER. COORDINATE EXACT LOCATION, SIZE, COVER RATING, AND REQUIREMENTS WITH VERIZON REPRESENTATIVE AND UTILITY COMPANY PRIOR TO START OF WORK.
- ⑥ EXTEND ONE (1) - 3" CONDUIT BELOW GRADE FROM PROPOSED FIBER HANHOLE TO PROPOSED HOFFMAN BOX OR CHARLES CUBE MOUNTED ON EQUIPMENT BACKBOARD FOR EXTENSION OF FIBER. REFER TO DETAIL, SHEET E-6. COORDINATE EXACT ROUTING WITH VERIZON REPRESENTATIVE IN THE FIELD.
- ⑦ PROPOSED LOCATION OF WEATHERPROOF, 24"H X 24"W X 10" DEEP HINGED FIBER HOFFMAN BOX OR CHARLES CUBE MOUNTED ON EQUIPMENT BACKBOARD ADJACENT TO RAYCAP TROUGH. HOFFMAN BOX SHALL BE FURNISHED WITH PLYWOOD BACKBOARD AND BE EQUIPPED WITH A COVER THAT HAS A CLASP THAT ALLOWS FOR THE INSTALLATION OF A PAD LOCK. FIBER HOFFMAN BOX SHOWN ASSUMES A DARK FIBER CIRCUIT. IN THE EVENT AN E-LINE CIRCUIT IS DELIVERED, CONTRACTOR SHALL PROVIDE AND INSTALL A CHARLES CUBE CABINET IN PLACE OF THE FIBER HOFFMAN BOX SHOWN AND EXTEND DC WIRING FROM CHARLES CABINET POWER PLANT TO CHARLES CUBE FUZE BLOCK. COORDINATE FINAL FIBER CIRCUIT PRIOR TO START OF WORK AND NOTIFY ENGINEER OF ANY REQUIRED CHANGES. PROVIDE PHENOLIC NAMEPLATE ON FRONT OF HOFFMAN BOX LABELED, "VERIZON FIBER". CONTRACTOR SHALL PROVIDE AND INSTALL VERIZON COMBINATION PADLOCK ON HOFFMAN BOX HINGED COVER LATCH. PADLOCK SHALL BE 2 1/4" SESAMEE K47 COMBINATION PADLOCK, OR 1" SESAMEE KCRO436 CHROME PLATED COMBINATION PAD LOCK IN AREAS SUBJECT TO HIGH CORROSION.
- ⑧ PROPOSED LOCATION OF WEATHERPROOF, 12"H X 12"D X 6'-0" LONG TROUGH MOUNTED ON EQUIPMENT BACKBOARD BELOW RAYCAP OVP BOXES. REFER TO DETAIL, SHEET E-7 FOR ADDITIONAL INFORMATION AND DETAILS.
- ⑨ PROPOSED ROUTE OF CONDUITS FROM CHARLES CABINET, SECURED TO UNDERSIDE OF EQUIPMENT PLATFORM TO RAYCAP TROUGH FOR EXTENSION OF DC POWER, FIBER, AND ALARMS. REFER TO SHEET E-3 FOR ADDITIONAL INFORMATION. NO SEALTIGHT OR PVC CONDUIT ABOVE GRADE SHALL BE PERMITTED.
- ⑩ PROPOSED CONDUITS FROM SIDE OF RAYCAP TROUGH TO FIBER HOFFMAN BOX FOR EXTENSION OF DC POWER AND FIBER. REFER TO SHEET E-3 FOR ADDITIONAL INFORMATION. NO SEALTIGHT OR PVC CONDUIT ABOVE GRADE SHALL BE PERMITTED.
- ⑪ VERIZON PROVIDED, CONTRACTOR INSTALLED 30 KW DIESEL GENERATOR MOUNTED ON EQUIPMENT PLATFORM. REFER TO SPECIFICATIONS, SHEET E-1 AND DETAILS, SHEET E-5 FOR ADDITIONAL INFORMATION.
- ⑫ VERIZON PROVIDED AND CONTRACTOR INSTALLED GPS ANTENNA (MODEL #GPS-TMG-HR26NCM) MOUNTED ABOVE ICE BRIDGE ON ICE BRIDGE SUPPORT POST. REFER TO STRUCTURAL FOR MOUNTING DETAILS.
- ⑬ PROPOSED LOCATION OF VERIZON UNDERGROUND DUCTBANK FOR EXTENSION OF HYBRIFLEX CABLES BELOW GRADE. CONTRACTOR SHALL COORDINATE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO START OF WORK. REFER TO DETAILS, SHEET E-9, AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- ⑭ PROPOSED LOCATION OF WEATHERPROOF, 36"H X 36"W X 12" DEEP HYBRIFLEX CABLE HOFFMAN BOX MOUNTED ON EQUIPMENT BACKBOARD BEHIND RAYCAP TROUGH FOR EXTENSION / TRANSITION OF HYBRIFLEX CABLES FROM BELOW GRADE AND INTO REAR OF RAYCAP TROUGH. TOP OF HOFFMAN BOX SHALL BE MOUNTED AT SAME HEIGHT AS TOP OF RAYCAP TROUGH. PROVIDE SNAP-IN SUPPORTS ON INTERIOR OF HOFFMAN BOX TO SECURE HYBRIFLEX CABLES. PROVIDE 4" WEATHERPROOF CONDUIT SLEEVES BETWEEN BACK OF HOFFMAN BOX AND BACK OF RAYCAP TROUGH.
- ⑮ PROPOSED LOCATION OF VERIZON SHEET METAL SHROUD FOR EXTENSION OF HYBRIFLEX CABLES UP FROM BELOW GRADE. CONTRACTOR SHALL COORDINATE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO START OF WORK. REFER TO DETAILS, SHEET E-9, AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- ⑯ ALL CONDUITS BELOW GRADE SHALL BE SCHEDULE 40 PVC. ALL CONDUITS EXTENDING BELOW AREAS SUBJECT TO VEHICULAR TRAFFIC SHALL BE SCHEDULE 80 PVC. ALL CONDUITS ABOVE GRADE AND/OR EXPOSED TO WEATHER SHALL BE RIGID GALVANIZED STEEL. NO SEALTIGHT OR PVC CONDUIT ABOVE GRADE SHALL BE PERMITTED. ALL CONDUITS ENTERING CABINETS, EQUIPMENT, AND GENERATOR SHALL BE PLUGGED WITH FIRESTOP PUTTY (MINIMUM OF 1" INTO CONDUIT). PROVIDE AND INSTALL RODENT BLOCKER (XCLUDER OR APPROVED EQUAL) WITHIN TELCO CONDUITS FOR RODENT AND PEST DETERRENT (SHALL NOT BE USED IN ELECTRICAL CONDUITS).
- ⑰ ALL METALLIC ITEMS (UNISTRUT, POSTS, HARDWARE, ETC.) SHALL BE GALVANIZED STEEL. PROVIDE AND INSTALL METALLIC UNISTRUT END CAPS WITH SNAP-IN CLIPS ON ENDS OF ALL CUT UNISTRUT. SNAP-IN CLIPS MUST BE PROVIDED TO ENSURE END CAPS ARE SECURELY FASTENED TO UNISTRUT. CADDY SLICK NUTS SHALL BE UTILIZED FOR FASTENING ALL ITEMS TO UNISTRUT, SPRING NUTS SHALL NOT BE USED.
- ⑱ CONDUIT ROUTING IS DIAGRAMMATIC, EXACT CONDUIT ROUTE SHALL BE COORDINATED WITH VERIZON REPRESENTATIVE IN THE FIELD.
- ⑲ REFER TO DRAWING PREPARED BY MRA FOR SITE PLAN.
- ⑳ THE SPECIFIED OPTIONAL STAND-BY GENERATOR IS NOT A SEPARATELY DERIVED SYSTEM. THE CONTRACTOR SHALL VERIFY THAT THE AUTOMATIC TRANSFER SWITCH DOES NOT SWITCH THE NEUTRAL CONDUCTOR. IF THE MANUFACTURER INSTALLED A MAIN BONDING JUMPER IN THE GENERATOR, THE CONTRACTOR SHALL DISCONNECT AND REMOVE THE JUMPER TO PREVENT VIOLATING NEC ARTICLE 250.6, OBJECTIONABLE CURRENT OVER GROUNDING CONDUCTORS.
- ㉑ CONTRACTOR SHALL OBTAIN THE LATEST ELECTRIC SERVICE DESIGN DRAWINGS FROM THE UTILITY COMPANY PRIOR TO START OF WORK. UTILITY COMPANY DRAWINGS SHALL SUPERCEDE ELECTRIC SERVICE DESIGN AS SHOWN IN CONSTRUCTION DOCUMENTS. COORDINATE ALL REQUIREMENTS WITH UTILITY COMPANY AND VERIZON REPRESENTATIVE.
- ㉒ EXTEND TWO (2) - 4" SCHEDULE 40 PVC CONDUITS FROM PROPOSED FIBER HANHOLE TO LOCATION DETERMINED AT TIME OF TELCO WALK WITH UTILITY COMPANY. COORDINATE EXACT ROUTING AND TERMINATION POINT WITH VERIZON REPRESENTATIVE IN THE FIELD PRIOR TO START OF WORK. PROVIDE NYLON PULL ROPE AND ENDCAPS. VERIZON LANDLINE SHALL PROVIDE AND INSTALL INNERDUCTS AS REQUIRED. COORDINATE UTILITY SOURCE TO BE USED FOR EXTENSION OF PROPOSED INCOMING FIBER SERVICE WITH UTILITY COMPANY PRIOR TO START OF WORK.

NOTE:
THE SITE PLAN IS SHOWN FOR INFORMATIONAL PURPOSES ONLY, AND THE EXACT LOCATION OF THE VERIZON
WIRELESS EQUIPMENT PLATFORM SHALL BE COORDINATED WITH FINAL CIVIL DRAWINGS PRIOR TO START OF WORK.

The image features the Verizon logo in red on the left. A yellow pushpin is stuck into the bottom of the 'V'. To the right is a hand-drawn address in black ink: 'Kingman Park' on top, '600 BENNING RD' on the next line, and '(AKA: 2500 BENNING RD NE)' on the third line. Below that is 'ASHINGTON, DC 20002'.

2600 BENNING RD
(AKA: 2500 BENNING RD NE)
WASHINGTON, DC 20002
DISTRICT OF COLUMBIA

REVISIONS:		
NO.	DESCRIPTION	DATE
	PERMIT COMMENTS	06/10/25
	PERMIT COMMENTS	06/05/25
	VzW COMMENTS	04/14/25
	PERMIT DWGS.	04/02/25

LAST REV.:

PROJECT NO: 240870

DATE: APRIL 02, 2025
SCALE AS NOTED

SCALE: AS NOTED

TITLE: POWER SITE PLAN

POWER SITE PLAN AND NOTES

Ergonomics in Design, Vol. 22, No. 1, March 2011, 11–20

CHARTER

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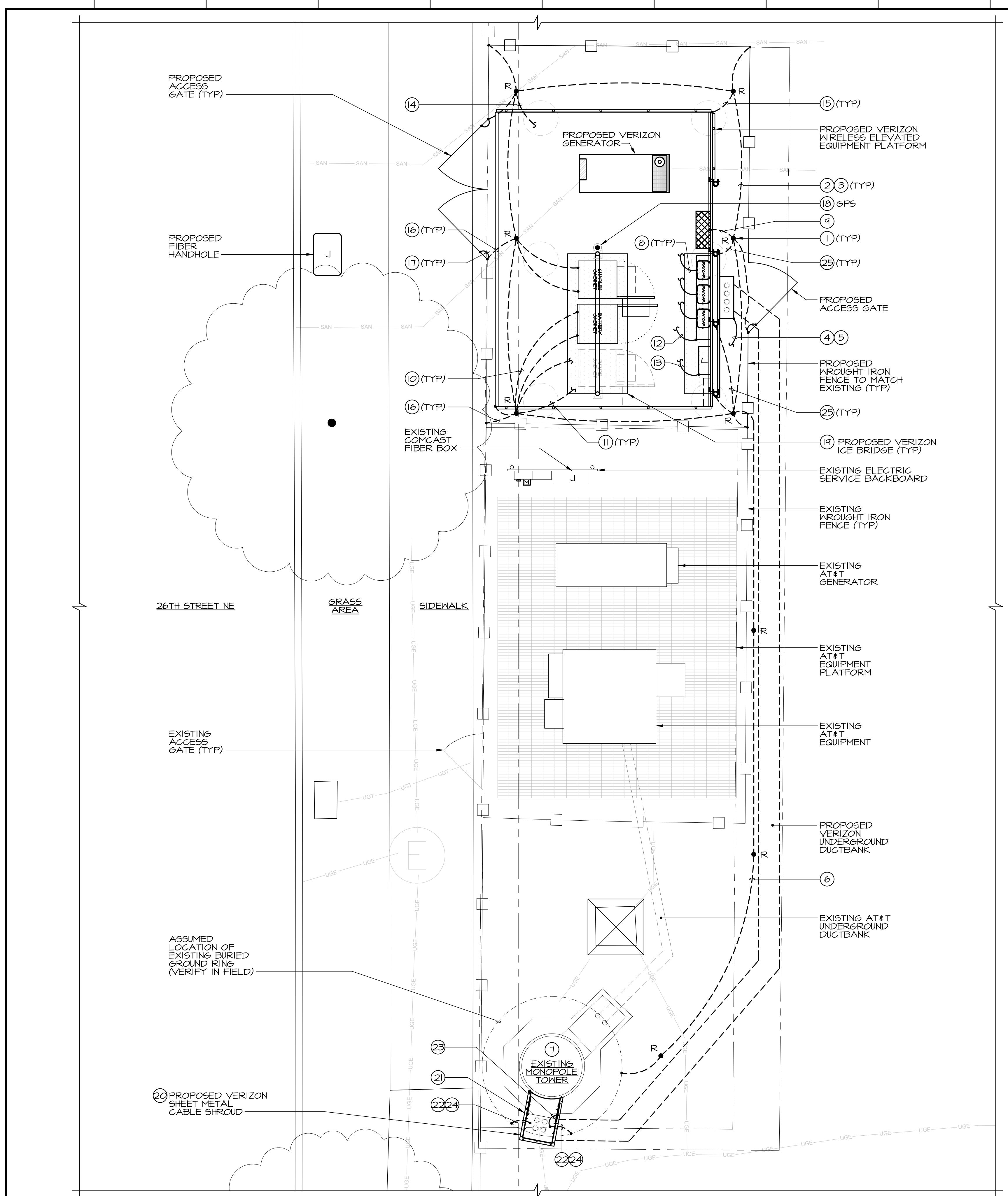
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TEI# 240870

SCALE: 1/4" = 1'-0"



GENERAL NOTES

1. ALL GROUND CONNECTIONS BELOW GRADE SHALL BE EXOTHERMIC (CADWELD) TO NEAREST GROUND ROD USING ERICO CADWELD "ONE-SHOT" CONNECTIONS.
2. ALL EXTERIOR GROUND CONDUCTORS SHALL BE #2 AWG BARE, TINNED SOLID COPPER, UNLESS NOTED OTHERWISE.
3. ALL GROUND CONNECTIONS ABOVE GRADE SHALL BE TWO-HOLE COPPER COMPRESSION TYPE WITH STANDARD LENGTH BARREL (BURNDY # YA2CL- 2TC14EI). SINGLE HOLE LUGS ARE NOT ACCEPTABLE.
4. ALL MOUNTING HARDWARE FOR EXTERIOR LOCATIONS SHALL BE HOT-DIPPED GALVANIZED STEEL INCLUDING NUTS, BOLTS, FLAT AND LOCK WASHERS.
5. ALL EXTERIOR MECHANICAL CONNECTIONS SHALL BE MADE USING OXIDE- INHIBITING JOINT COMPOUND. THE COMPOUND SHALL BE APPLIED TO ALL SURFACES OF BOLTS, WASHERS, NUTS AND CONNECTING SURFACES OF GROUND BAR PLATES. ALL BARE COPPER SURFACES OF CONDUCTORS SHALL BE COATED PRIOR TO LUGGING. JOINT COMPOUND SHALL BE NO-OX. KOPR-SHIELD SHALL NOT BE PERMITTED.
6. ALL EXOTHERMIC WELD CONNECTIONS AND FIELD CUTS OF METALLIC OBJECTS EXPOSED TO WEATHER SHALL BE FIRST SPRAYED WITH COLD GALVANIZING (AFTER COOL DOWN) THEN BE TOPPED WITH BRUSH ON MARINE GRADE GALVANIZING.
7. ALL CONDUIT USED AS SLEEVES FOR GROUNDING OR BONDING CONDUCTORS SHALL BE PVC.
8. ALL GROUND RODS SHALL BE DRIVEN VERTICALLY USING A GROUND ROD SHIELD TO PREVENT THE ENDS FROM "MUSHROOMING".
9. THE MAXIMUM RESISTANCE OF THE COMPLETED GROUND SYSTEM SHALL NOT EXCEED 5 OHMS ON ANY PART OF THE SYSTEM. IF DUE TO SOIL CONDITIONS OR OTHER PARAMETERS, THIS MAXIMUM IS EXCEEDED, CONTACT LYNCOLE FOR XIT GROUNDING DESIGN.
10. PROVIDE ANDREW 36" GROUNDING CABLE REQUIRING FIELD ATTACHABLE CRIMP-ON LUG. DO NOT USE THE LUGS PROVIDED WITH THE GROUNDING KIT; PROVIDE TWO HOLE LUGS. GROUNDING CABLE SHALL BE CUT TO SHORTEST LENGTH POSSIBLE. ALL BONDING CONNECTIONS TO THE EXTERIOR GROUND BAR PLATE SHALL BE MADE USING STAINLESS STEEL NUTS AND BOLTS. CORROSION INHIBITOR SHALL BE APPLIED BETWEEN NUTS AND BOLTS AND GROUND BAR PLATE.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING A CLAMP ON RESISTANCE TEST TO DETERMINE THE OHMS RESISTANCE RATING OF FINAL GROUNDING SYSTEM. RESULTS OF TEST SHALL BE COMMUNICATED TO VERIZON WIRELESS CONSTRUCTION MANAGER INCLUDED IN CLOSEOUT PACKAGE.
12. ALL EXTERIOR GROUND BARS SHALL BE GALVANIZED STEEL, SIZE AS NOTED ON PLANS, AND MANUFACTURED BY ELECTRIC MOTIONS COMPANY, INC. (WWW.ELECTRICMOTIONSCOMPANY.COM).
13. ALL JOINT COMPOUND USED FOR GROUNDING SHALL BE NO-OX. KOPR-SHIELD SHALL NOT BE PERMITTED.

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06/10/2025

DRAWING NOTES

- ① PROVIDE 8'-0" (MINIMUM) x 5/8" COPPER CLAD STEEL GROUND ROD. TOP OF GROUND ROD SHALL BE AT THE SAME DEPTH AS THE GROUND RING.
- ② BURIED GROUND RING SHALL BE #2 AWG, BARE, TINNED, SOLID COPPER.
- ③ BURIED GROUND RING SHALL BE WITHIN 24" TO 36" OFF THE STRUCTURE (WHERE FEASIBLE). THE GROUND RING SHALL BE AT A DEPTH OF AT LEAST 30" BELOW FINISHED GRADE.
- ④ EXTEND 1#2 AWG GREEN, INSULATED, STRANDED COPPER GROUND CONDUCTOR FROM HYBRIFLEX CABLE HOFFMAN BOX AND BOND TO NEAREST PLATFORM STEEL FRAMING.
- ⑤ PROVIDE LONG BARREL 2 HOLE LUG FOR TERMINATION OF HYBRIFLEX CABLE GROUND. CONTRACTOR SHALL CONNECT TO BOTTOM INTERIOR OF HYBRIFLEX CABLE HOFFMAN BOX.
- ⑥ EXTEND 1#2 AWG, BARE, TINNED, SOLID, COPPER GROUND CONDUCTOR FROM PROPOSED VERIZON GROUND RING AND BOND TO EXISTING TOWER BURIED GROUND RING. COORDINATE CONNECTION TO EXISTING GROUND RING WITH FINAL LOCATION OF GROUND RING BELOW GRADE.
- ⑦ PROVIDE AND INSTALL THREE (3) 12" WIDE x 4" HIGH x 1/4" THICK, GALVANIZED STEEL GROUND BARS (ONE PER SECTOR) MOUNTED ON EXISTING TOWER AT ELEVATION OF VERIZON ANTENNAS. GROUND BAR(S) SHALL BE MOUNTED WITH BEAM CLAMPS, DO NOT USE INSULATED STANDOFFS. EXTEND 1#6 AWG, GREEN, INSULATED, STRANDED GROUND CONDUCTOR FROM EACH REMOTE RADIO HEAD (RRH)/ DISTRIBUTION BOX AND BOND TO EACH SECTOR GROUND BAR (TYP OF 3).
- ⑧ EXTEND 1#2 AWG, GREEN, INSULATED, STRANDED GROUND CONDUCTOR FROM MAIN DISTRIBUTION BOX MOUNTED ON EQUIPMENT BACKBOARD AND BOND TO NEAREST EQUIPMENT BACKBOARD SUPPORT POST.
- ⑨ EXTEND 1#2 AWG, BARE, TINNED, SOLID COPPER GROUNDING ELECTRODE CONDUCTOR FROM GROUND BAR IN PANEL PPI AND CADWELD TO NEAREST BURIED GROUND ROD. THE GROUNDED CONDUCTOR SHALL BE ELECTRICALLY ISOLATED FROM THE GROUND BAR/GROUNDING CONDUCTOR PER NEC 250-32(B). PROVIDE BONDING CONNECTION FROM ENCLOSURE OF LOAD CENTER PANEL TO EQUIPMENT BACKBOARD UNISTRUT/PLATFORM STEEL FRAMING.
- ⑩ EXTEND 2#2 AWG, BARE, TINNED, SOLID COPPER GROUND CONDUCTOR FROM NEAREST BURIED GROUND ROD, TURN UP THROUGH PLATFORM GRATING IN SEALIGHT CONDUIT, AND BOND TO GROUND LUG AT BOTTOM REAR OF CHARLES R-F AND BATTERY CABINETS (TYP OF 4 LOCATIONS).
- ⑪ EXTEND 2#2 AWG, BARE, TINNED, SOLID COPPER GROUND CONDUCTOR IN SEALIGHT CONDUIT FROM NEAREST BURIED GROUND ROD AND COIL TIGHT TO UNDERSIDE OF PLATFORM GRATING FOR FUTURE CABINET GROUNDING (TYP OF 2).
- ⑫ EXTEND 1#2 AWG, GREEN, INSULATED, STRANDED GROUND CONDUCTOR FROM UNDERSIDE OF WEATHERPROOF RAYCAP TROUGH AND BOND TO NEAREST EQUIPMENT BACKBOARD SUPPORT POST.
- ⑬ EXTEND 1#2 AWG, GREEN, INSULATED, STRANDED COPPER GROUND CONDUCTOR FROM UNDERSIDE OF FIBER HOFFMAN BOX AND BOND TO NEAREST EQUIPMENT BACKBOARD SUPPORT POST.
- ⑭ EXTEND 1#2 AWG, BARE, TINNED, SOLID COPPER GROUND CONDUCTOR FROM BURIED GROUND RING, TURN UP THROUGH CONDUIT STUB-UP AREA, AND BOND TO INTERIOR FRAME OF GENERATOR PER MANUFACTURER'S RECOMMENDATIONS.
- ⑮ EXTEND 1#2 AWG, BARE, TINNED, SOLID COPPER GROUND CONDUCTOR FROM PROPOSED PLATFORM STEEL FRAMING AND BOND TO NEAREST BURIED GROUND ROD IN TWO (2) LOCATIONS, 180 DEGREES APART. PORTIONS OF GROUND CONDUCTOR EXTENDING ABOVE GRADE SHALL BE RAN IN SEALIGHT.
- ⑯ EXTEND 1#2 AWG, BARE, TINNED, SOLID COPPER GROUND CONDUCTOR FROM NEAREST BURIED GROUND ROD AND BOND TO EACH NEW / EXISTING METALLIC FENCE POST. CONNECTION TO FENCE POST SHALL BE BELOW GRADE.
- ⑰ PROVIDE FLEXIBLE GROUND STRAP (T & B SERIES) CONNECTING METALLIC GATE FRAME TO ADJACENT METALLIC FENCE POST. REFER TO DETAIL, SHEET E-6.
- ⑱ VERIZON WIRELESS PROVIDED AND CONTRACTOR INSTALLED GPS ANTENNA (MODEL #GPS-TMG-HR26NCM). CONTRACTOR SHALL PROVIDE AND INSTALL 1/2" GROUND KIT ON ICE BRIDGE SUPPORT POST AT LOCATION OF GPS ANTENNA AND ON NEAREST PLATFORM STEEL FRAMING BEFORE ENTERING CHARLES CABINET FOR BONDING OF GPS ANTENNA/COAX. REFER TO STRUCTURAL FOR MOUNTING DETAILS.
- ⑲ EXTEND 1#6 AWG GREEN, INSULATED, STRANDED COPPER BONDING JUMPER BETWEEN EACH SECTION OF ICE BRIDGE USING 2-HOLE LUG WITH STAINLESS STEEL HARDWARE. EACH SECTION OF ICE BRIDGE SHALL BE BONDED TO ICE BRIDGE SUPPORT POST VIA EXOTHERMIC WELD.
- ⑳ PROPOSED LOCATION OF THREE SIDED SHEET METAL SHROUD OVER HYBRIFLEX CABLES EXTENDING UP FROM BELOW GRADE AT BASE OF PROPOSED TOWER. REFER TO SHEET E-9 AND CIVIL/STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- ㉑ PROPOSED LOCATION OF CONCRETE PAD FOR EXTENSION OF HYBRIFLEX CABLE CONDUITS FROM BELOW GRADE UP INTO SHEET METAL SHROUD. PROVIDE TWO (2) 3/4" PVC SLEEVES IN PROPOSED CONCRETE PAD FOR EXTENSION OF GROUND CONDUCTOR PIGTAILS FROM EXISTING BURIED GROUND RING SURROUNDING EXISTING TOWER UP INTO SHROUD.
- ㉒ EXTEND 1#2 AWG, BARE, TINNED, SOLID COPPER GROUND CONDUCTOR PIGTAILS FROM EXISTING BURIED GROUND RING SURROUNDING TOWER, UP THROUGH PVC SLEEVES IN CONCRETE PAD, INTO SHEET METAL SHROUD FOR BONDING OF SHROUD AND HYBRIFLEX CABLES.
- ㉓ EXTEND 1#2 AWG, GREEN, INSULATED, STRANDED COPPER GROUND CONDUCTOR FROM GROUND PIGTAILS INSIDE SHEET METAL SHROUD AND BOND TO INSIDE OF SHROUD.
- ㉔ PROVIDE BONDING CONNECTION FROM GROUND PIGTAILS INSIDE SHEET METAL SHROUD TO OUTER CONDUCTOR OF HYBRIFLEX CABLE VIA COAX GROUNDING KIT.
- ㉕ EXTEND 1#2 AWG, BARE, TINNED, SOLID COPPER GROUND CONDUCTOR FROM NEAREST GROUND ROD AND BOND TO EQUIPMENT BACKBOARD SUPPORT POST. PORTIONS OF GROUND CONDUCTOR EXTENDING ABOVE GRADE SHALL BE RAN IN SEALIGHT.
- ㉖ ALL GROUNDING CONNECTIONS SHALL BE MADE BELOW GRADE TO MINIMIZE THE AMOUNT OF EXPOSED GROUND CONDUCTORS.
- ㉗ ALL EQUIPMENT GROUND LEADS TO BACKBOARD SUPPORT POSTS AND ASSOCIATED EQUIPMENT/HYBRIFLEX CABLES SHALL BE IN A DIRECT, DOWNWARD DIRECTION. AVOID UPWARD SWEEPS AT ALL POSSIBLE.

I AM RESPONSIBLE FOR DETERMINING THAT THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICATION ARE IN COMPLIANCE WITH ALL LAWS AND REGULATIONS OF THE DISTRICT OF COLUMBIA. I HAVE PERSONALLY PREPARED, OR DIRECTLY SUPERVISED THE DEVELOPMENT OF THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICATION.

REVISIONS:		
NO.	DESCRIPTION	DATE
	PERMIT COMMENTS	06/10/25
	PERMIT COMMENTS	06/05/25
	VZW COMMENTS	04/14/25
	PERMIT DWGS	04/07/25

LAST REV.:	
PROJECT NO.:	240810
DATE:	APRIL 02, 2025
SCALE:	AS NOTED
TITLE:	

TITLE:
**GROUNDING
SITE PLAN
AND NOTES**

AND REVIEWS

SHEET:

III-4
004

A scale bar with markings from 0 to 12 inches. The markings are: 0, 1, 2, 3, 4, 8, 12. The first four markings are on a black background, and the last three are on a white background. Below the scale bar, the text "SCALE: 1/4\" data-bbox="111 100 458 178" data-label="Text">

SCALE: $1/4"$ = $1'-0"$

A B C D E F G H J K L M N P Q R

ALARM NUMBER	DESCRIPTION
CC1	DOOR INTRUSION
CC2	COMMERCIAL POWER FAILURE
CC3	SURGE SUPPRESSOR/LIGHTNING ARRESTOR
CC4	RECTIFIER FAILURE
CC5	MULTIPLE RECTIFIER FAILURE
CC6	BATTERY DISCHARGE
CC7	LOW VOLTAGE
CC8	DC POWER FAILURE
CC9	GENERATOR RUNNING
CC10	GENERATOR LOW FUEL
CC11	GENERATOR FAILURE
CC12	HVAC FAILURE
CC13	HIGH TEMP
CC14	LOW TEMP
CC15	TOWER LIGHT
CC16	TOWER LIGHT SIDE
CC17	RRH UP-CONVERTER FAILURE
CC18	RRH POWER FAILURE
CC19	RRH HIGH HUMIDITY
CC20	RRH INTRUSION
CC21	SMOKE FIRE
CC22	BUS BAR THEFT
CC23	
CC24	
CC25	MICROWAVE CRITICAL
CC26	MICROWAVE MAJOR
CC27	DEHYDRATOR ALARM
CC28	FIRE SUPPRESSION DISCHARGE
CC29	FIRE SUPPRESSION TROUBLE
CC30	SECONDARY HVAC RUNNING
CC31	EXPLOSIVE GAS
CC32	HIGH HUMIDITY

TEI

TELEGENT ENGINEERING INC
2216 Commerce Road, Suite 1
Forest Hill, MD 21050
410-692-5816
www.tel-eng.com



06/10/2025

Verizon
Engineering Park
2600 Benning Rd
(aka: 2500 Benning Rd NE)
(District of Columbia)

REVISIONS:
NO. DESCRIPTION DATE
PERMIT COMMENTS 06/10/25
PERMIT COMMENTS 06/10/25
VZN COMMENTS 04/14/25
PERMIT DWGS. 04/02/25

LAST REV.:
PROJECT NO: 240810
DATE: APRIL 02, 2025
SCALE: AS NOTED
TITLE: DETAILS

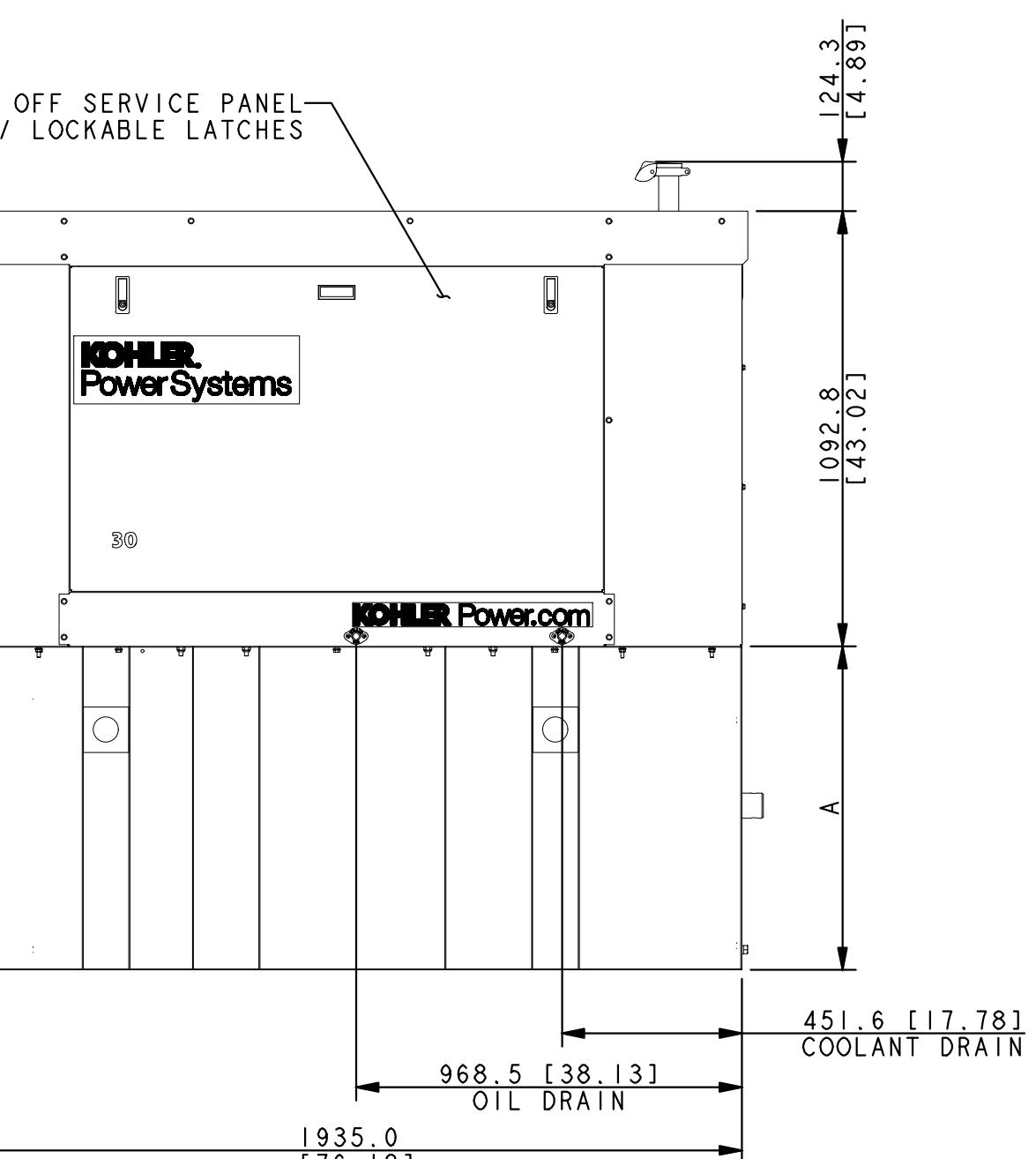
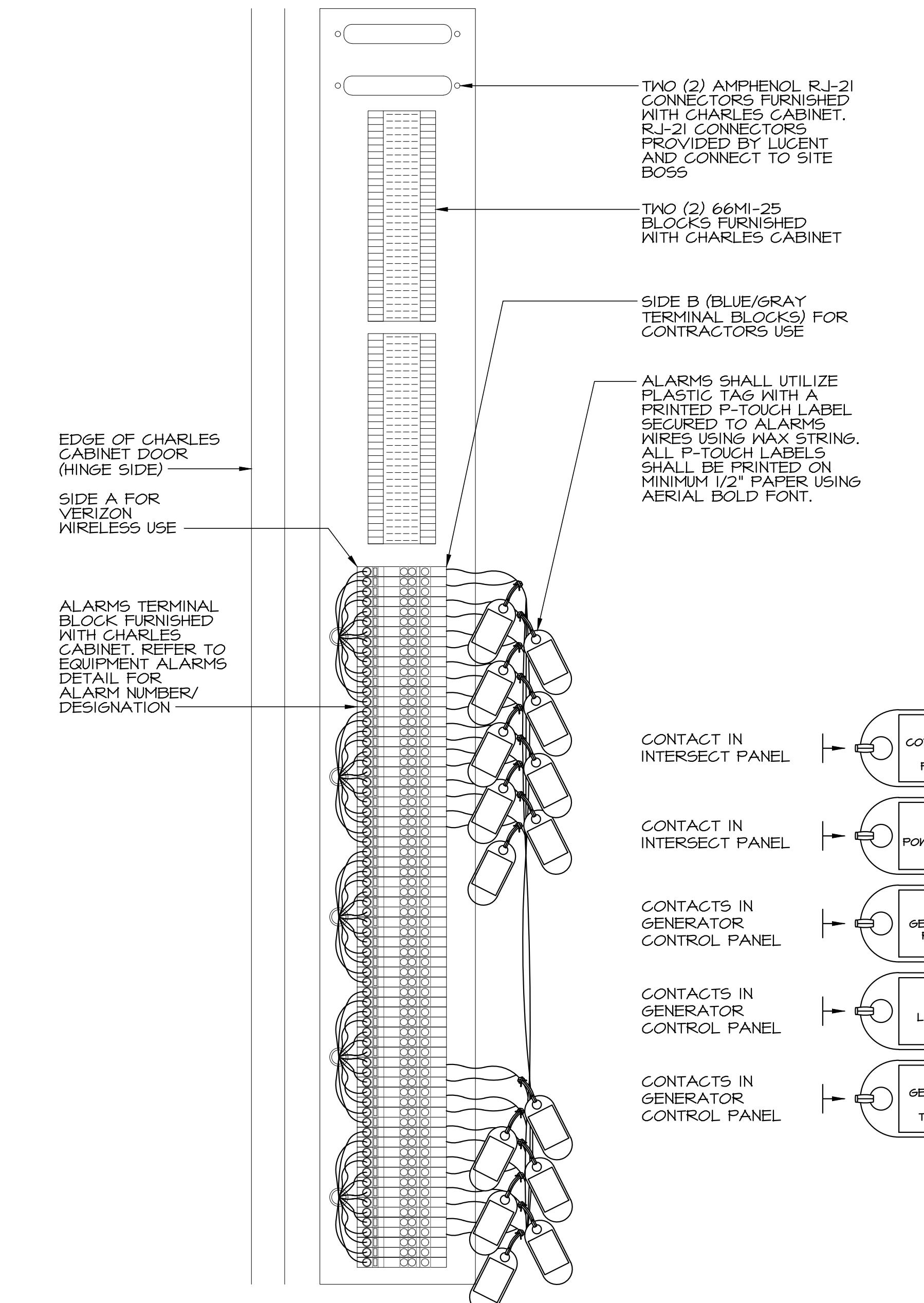
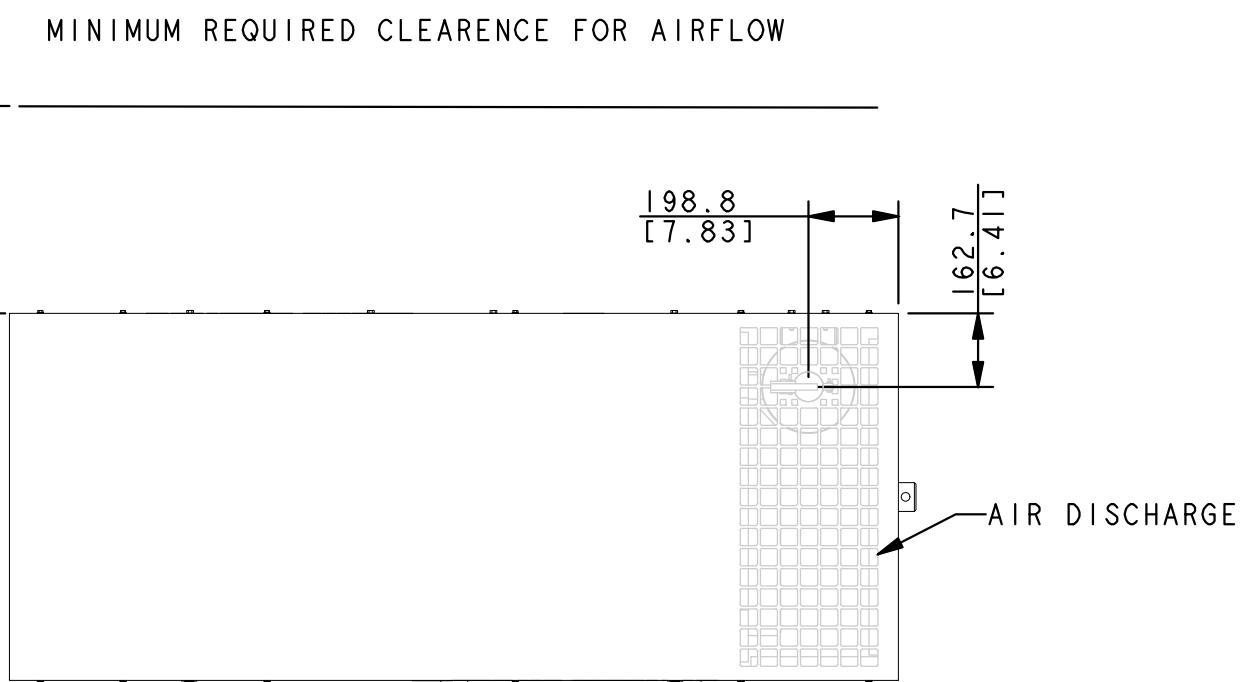
SHEET: E-5
E005

TEI# 240810

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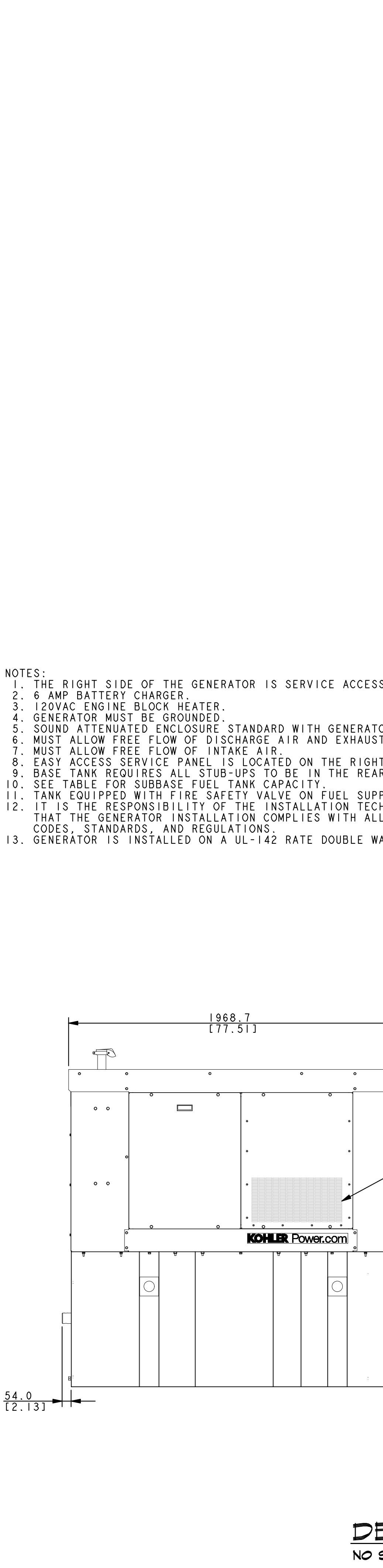
DETAIL - CHARLES CABINET ALARMS SCHEDULE
NO SCALE

I AM RESPONSIBLE FOR DETERMINING THAT THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICATION ARE IN COMPLIANCE WITH ALL LOCAL AND NATIONAL COMBINED CIRCUIT PERMANENTLY PROGRAMMED OR DIRECTLY SUPERVISED THE DEVELOPMENT OF THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICATION.

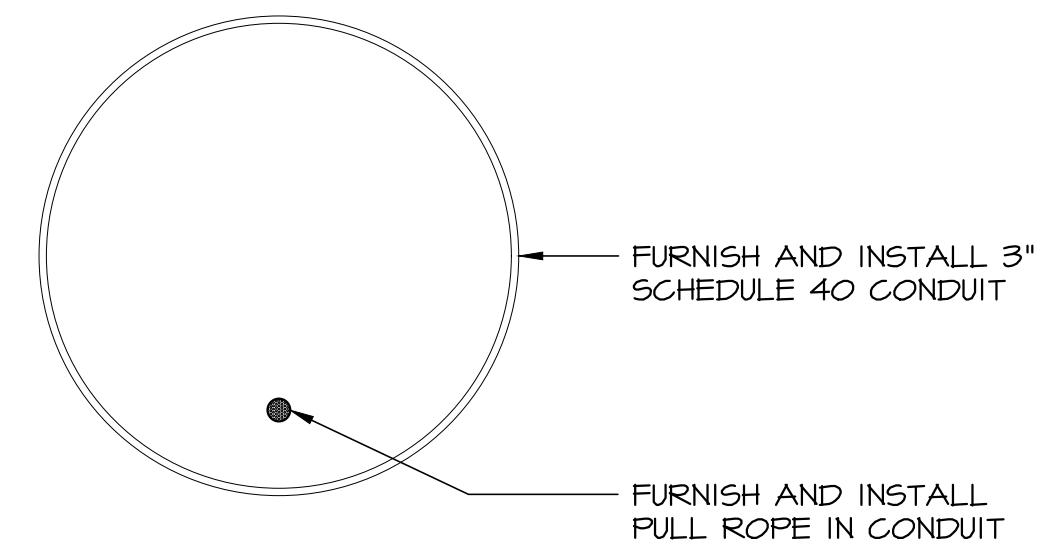


DETAIL - KOHLER 30kW DIESEL GENERATOR
NO SCALE

DETAIL - ALARM LEADS TERMINAL
NO SCALE



A B C D E F G H J K L M N P Q R



NOTES:
1. ENTIRE TELCO CONDUIT PATHWAY SHALL NOT CONTAIN ANY LB FITTINGS. ALL BENDS SHALL BE OF LONG SWEEPS OR MADE BY USING JUNCTION BOXES.

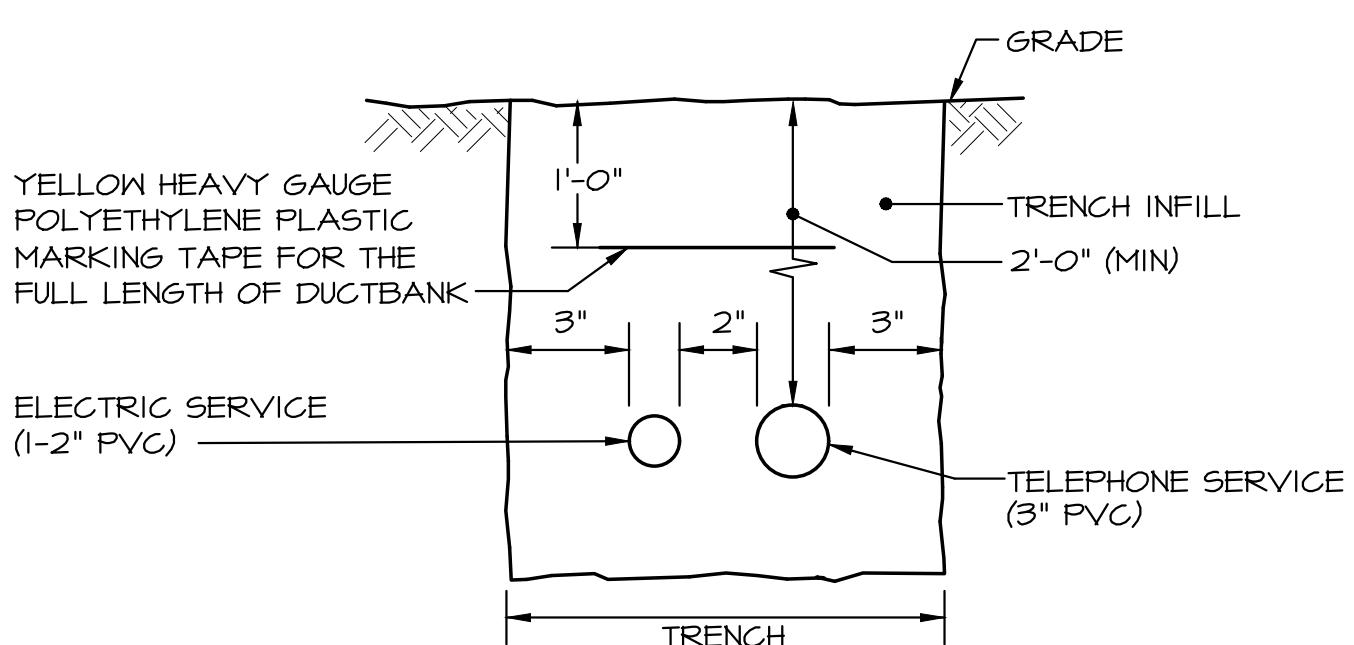
DETAIL - 3" TELCO CONDUIT
NO SCALE (FIBER CONDUIT WITHIN COMPOUND)

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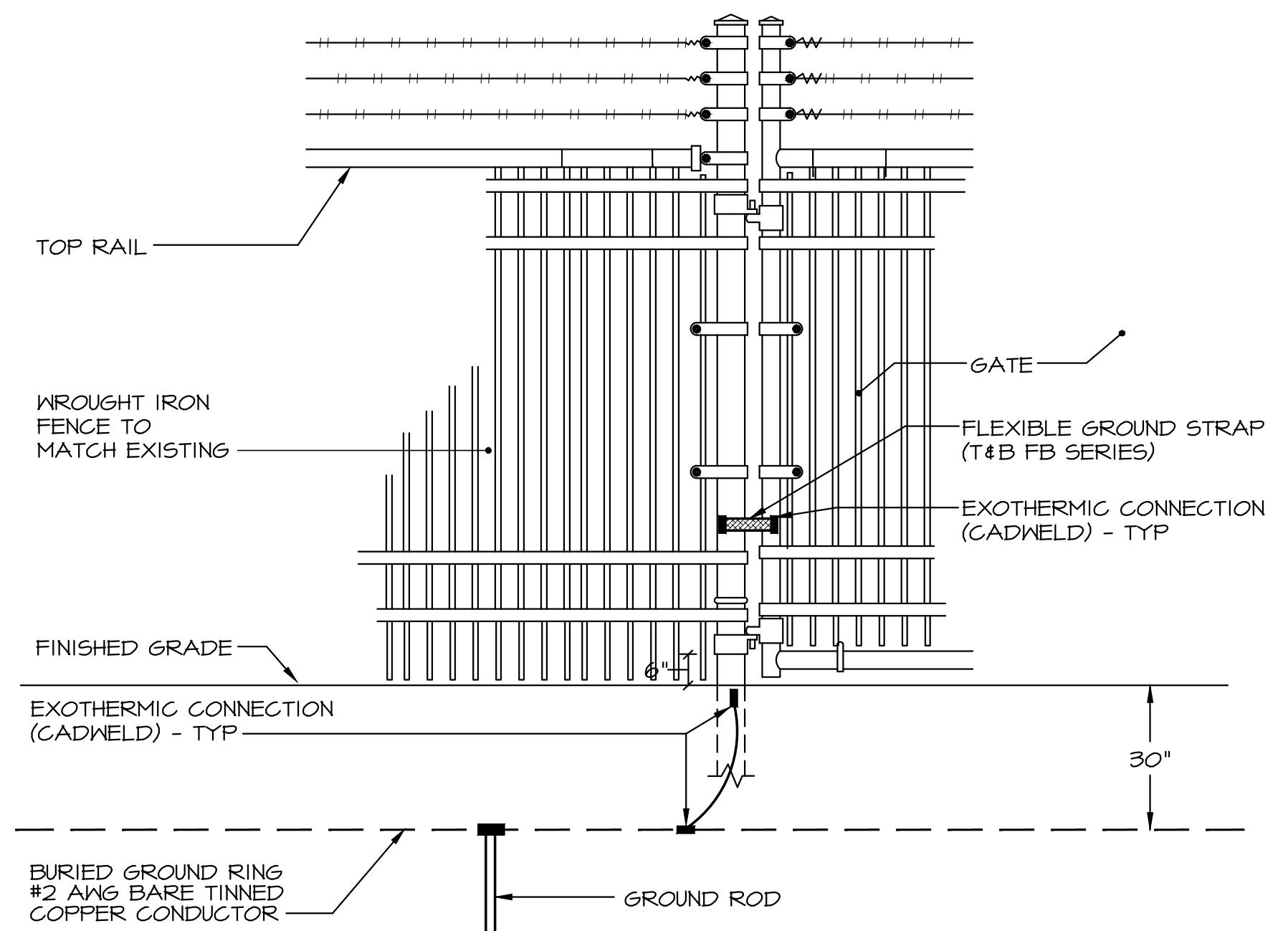
06/10/2025



DETAIL - UTILITY CONDUIT SECTION
NO SCALE (WITHIN COMPOUND)

Verizon

2600 BENNING RD
WAL: 2600 BENNING RD
DISTRICT OF COLUMBIA



DETAIL - GATE GROUNDING

NO SCALE

REVISIONS:		
NO.	DESCRIPTION	DATE
	PERMIT COMMENTS	06/10/25
	PERMIT COMMENTS	06/05/25
	VZN COMMENTS	04/14/25
	PERMIT DWGS.	04/02/25

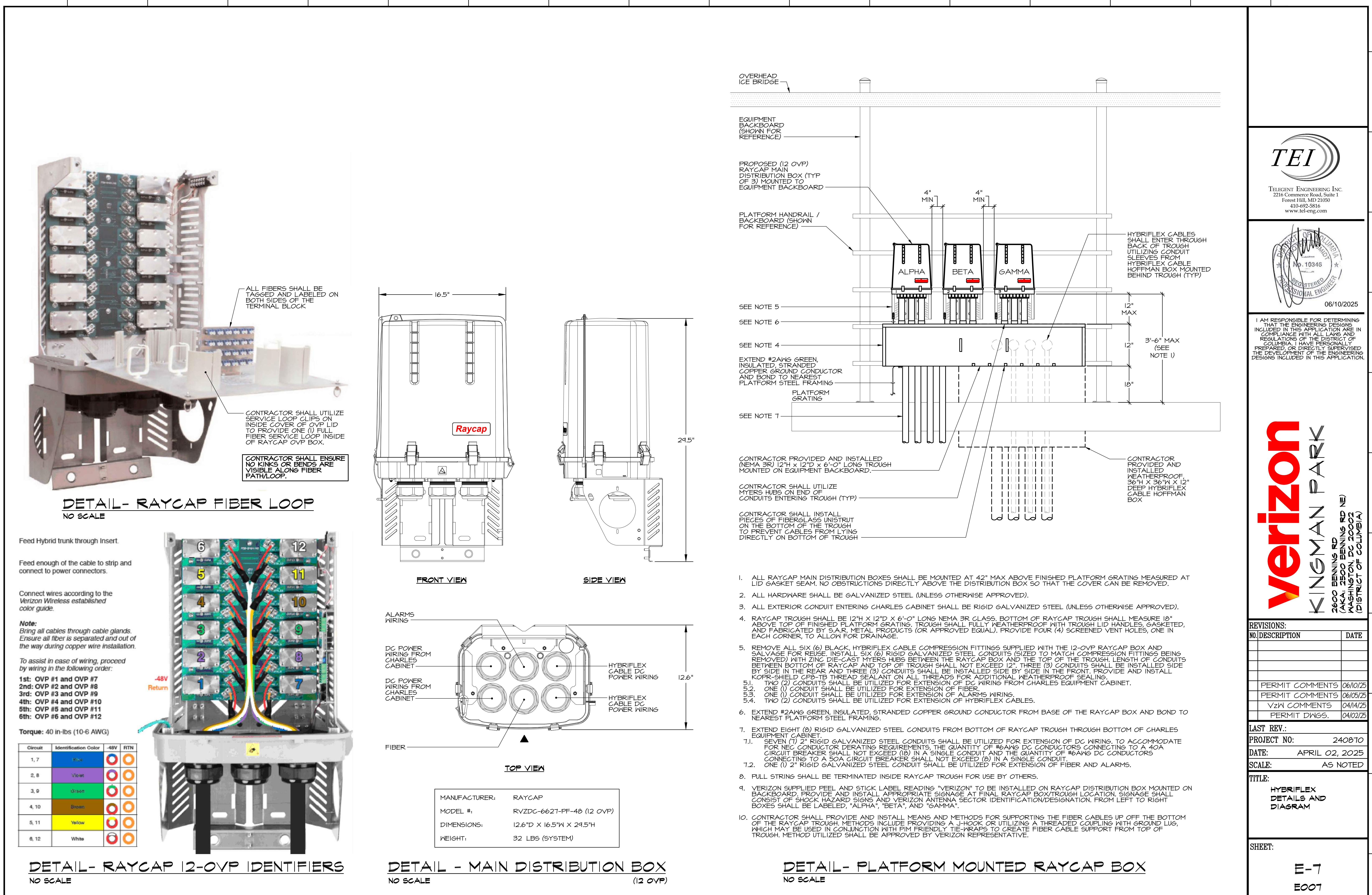
LAST REV.:		
PROJECT NO:	240810	
DATE:	APRIL 02, 2025	
SCALE:	AS NOTED	

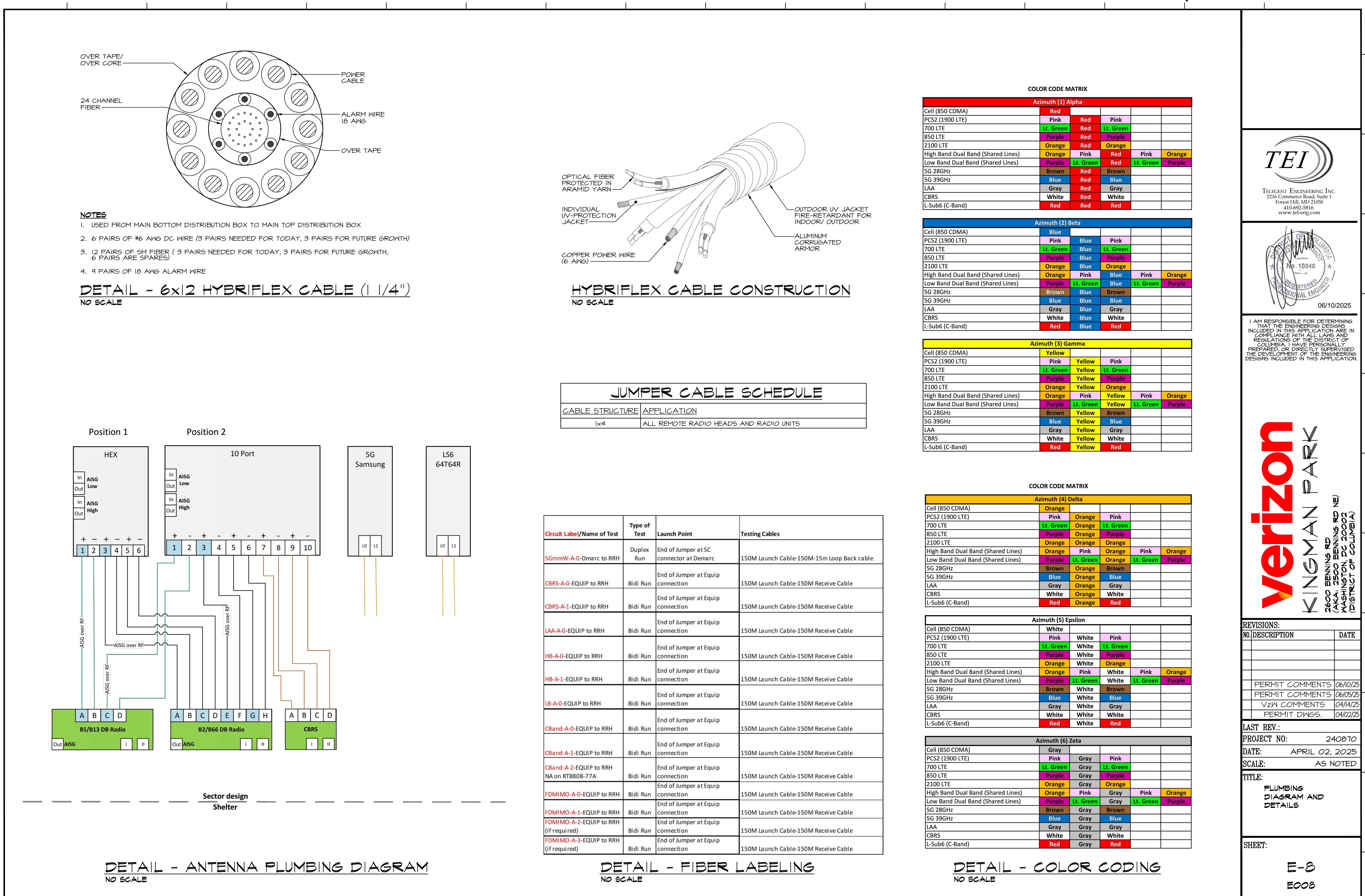
TITLE: DETAILS

SHEET: E-6

E006

TEI# 240810





verizon

engineering park

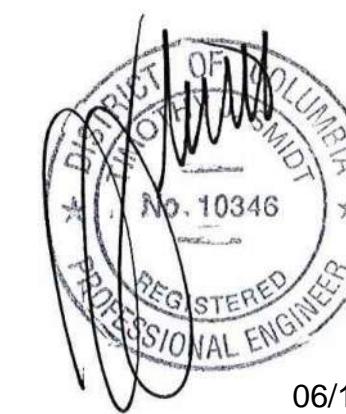
2600 BENNING RD
NW, WASHINGTON, DC 20002
(NEA: 2500 BENNING RD NE)
(DISTRICT OF COLUMBIA)

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Verizon
VERIZON PARK
2600 BENNING RD
WVLA: 2600 BENNING RD
WASHINGTON, DC 20002
(DISTRICT OF COLUMBIA)

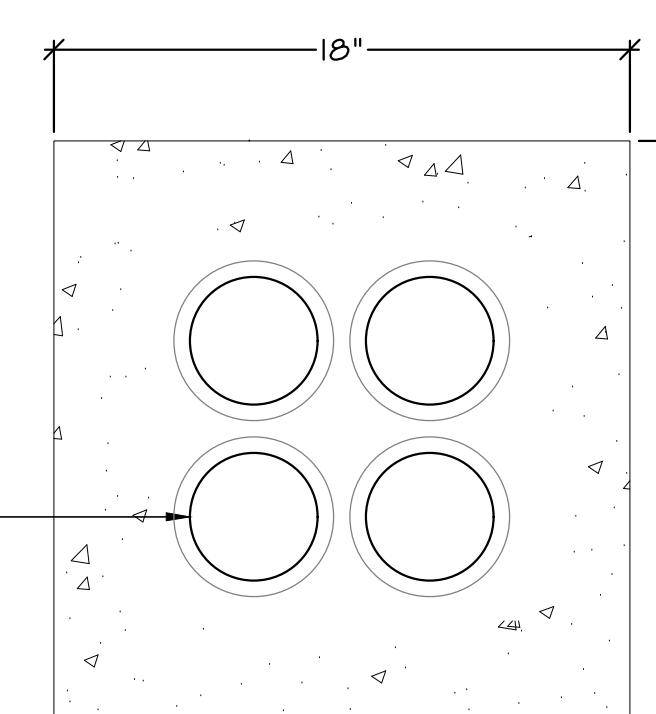
REVISIONS:		
NO.	DESCRIPTION	DATE
	PERMIT COMMENTS	06/10/25
	PERMIT COMMENTS	06/05/25
	VZN COMMENTS	04/14/25
	PERMIT DWGS.	04/02/25

LAST REV.:
PROJECT NO: 240810
DATE: APRIL 02, 2025
SCALE: AS NOTED
TITLE: DUCTBANK DETAILS

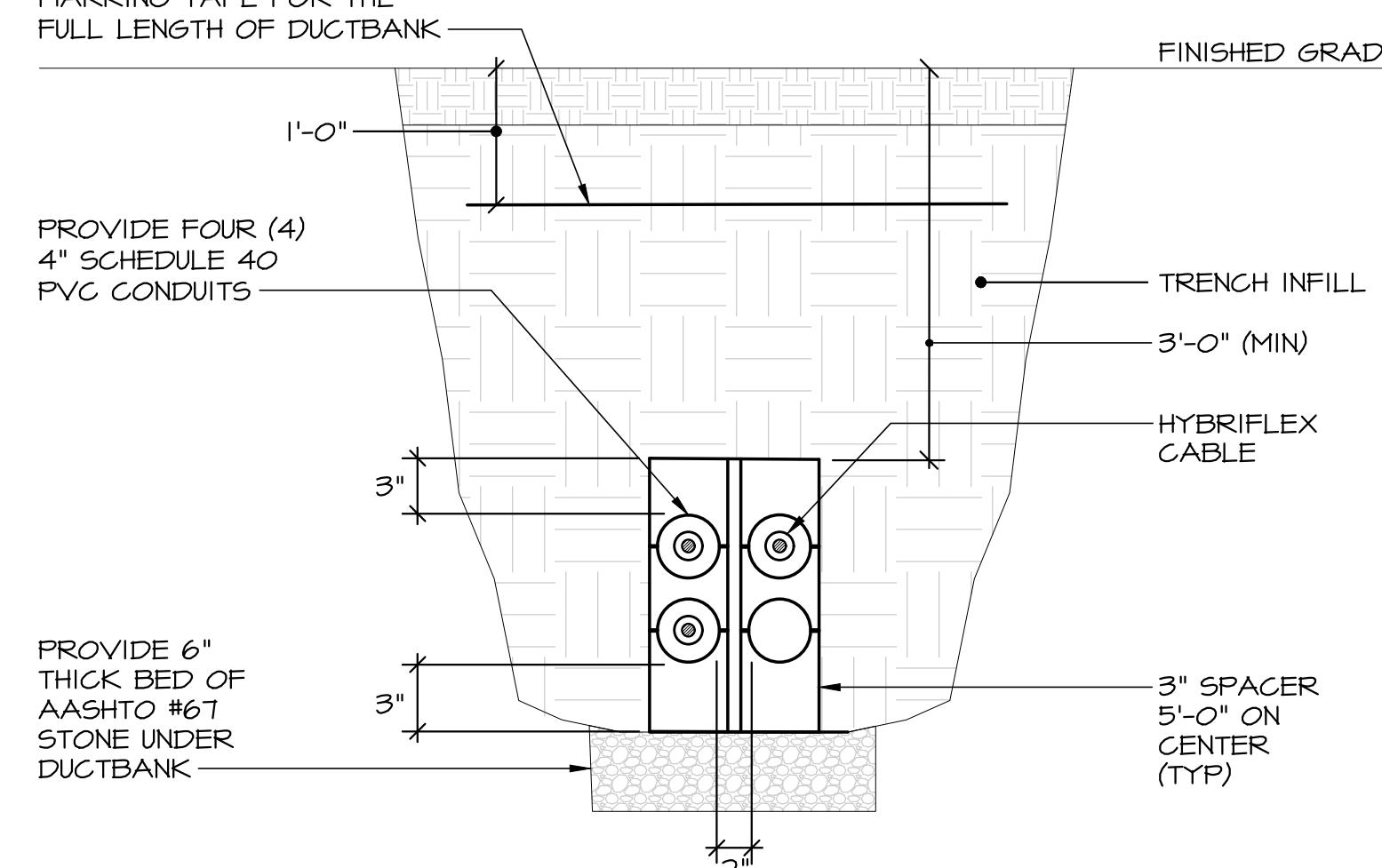
SHEET: E-9
E009

TEI# 240810

PROVIDE 4" MICROFLECT
CABLE BOOT AT END OF
EACH CONDUIT (TYP)



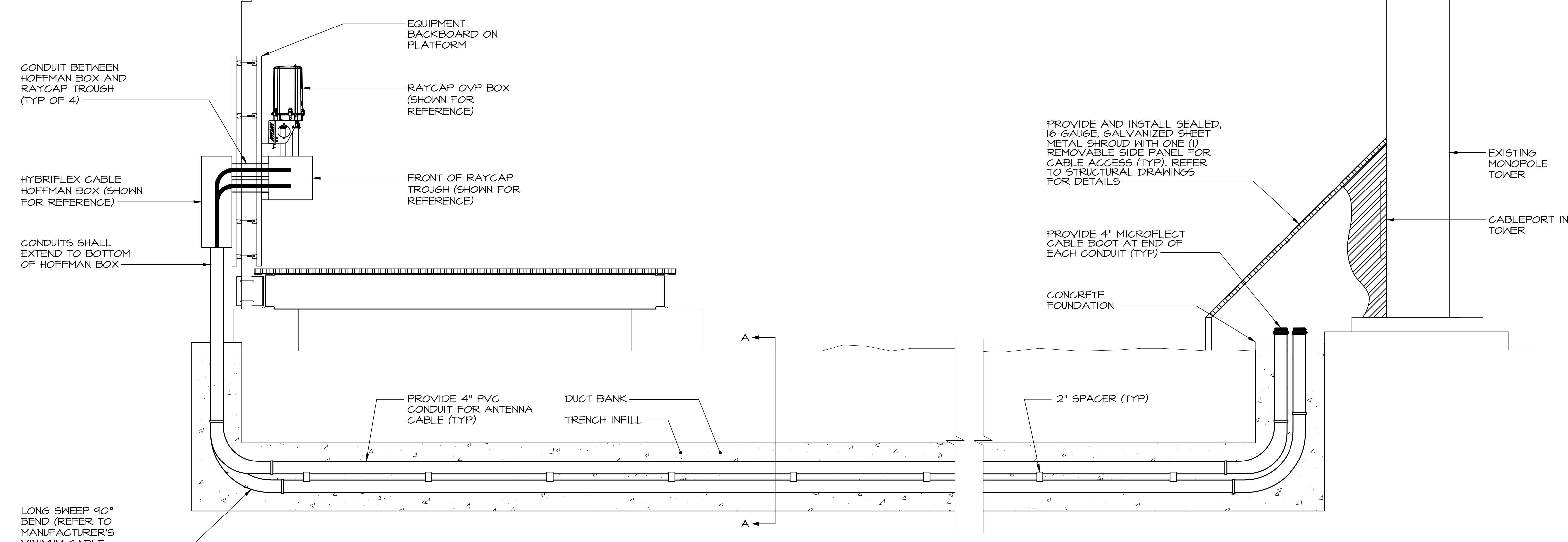
PLAN VIEW - CONCRETE BASE
AT EXISTING MONPOLE TOWER



SECTION A-A

DETAIL - TYPICAL ANTENNA
CONDUIT DUCTBANK SECTION

NO SCALE



DETAIL - TYPICAL HYBRI FLEX CABLE DUCTBANK

NO SCALE