

**Memorandum
Department of Planning**



To: Planning and Public Works Committee

From: Shilpi Bharti, Planner

Date: November 10, 2022

RE: **FSP 58-2022 Verizon (1151 Marcus Aurelius Walk):** A request for a new Facilities Siting Permit to install a new wireless telecommunications facility located along N Woods Mill Road Right-of-Way on property addressed as 1151 Marcus Aurelius Walk. (Ward 1)

Summary

Verizon has submitted a Facilities Siting Permit (FSP) application to install a new wireless telecommunications facility along City of Chesterfield right-of-way of North Woods Mill Road, as shown in the aerial image below.

The proposed installation consists of a standard wood utility pole. Equipment and antennas will be mounted on the pole. The total height of the pole with antenna mounted on top will be 35’ in height.

The proposed installation is compliant with the requirements of Unified Development Code Section 405.06.040. In accordance with Section 405 of the UDC, final approval of the installation must be granted by the City Council.

Attached to this report, please find additional information regarding the proposed installation.



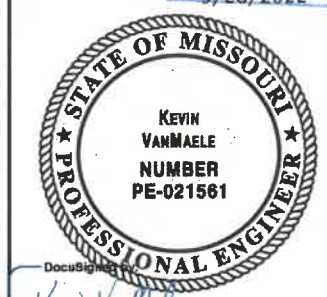
Figure 1: Subject Site Aerial

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OCT 20 2022
City of Chesterfield-Department of Planning

DocuSign Envelope ID: 2974A308-7505-4C31-A25D-4055226AEA0C



SITE NAME: STLC CHF FS 04SC
 LOCATION CODE: 706079
 SITE ADDRESS: 13341 OLIVE BLVD
 CHESTERFIELD, MO, 63017
 STRUCTURE TYPE: WOOD UTILITY POLE
 DRAWING DESCRIPTION: FINAL CD



DocuSigned by: *Shelton Keisling* and *Kevin VanMaele*
 EF84D8A5B00E

ENGINEERING LICENSE:

ENGINEER:	PE#:	DISCIPLINE:
KMV KEVIN M VANMAELE	PE-021561	CIVIL
REJ ROBERT E. JENSEN	PE-028974	CIVIL
CC CHRISTOPHER GIANNOTTI	PE-200906663	CIVIL
SOK SHELTON D. KEISLING	PE-27323	ELECTRICAL
TMS TERRANCE M. SUPER	PE-15521	ELECTRICAL

SITE INFORMATION

1A INFORMATION:
 LAT(NAD83): 38° 40' 52.23"
 LONG(NAD83): 90° 29' 56.49"
E911:
 13341 OLIVE BLVD
 CHESTERFIELD, MO
 COUNTY: ST. LOUIS
EQUIPMENT & POWER INFO:
 POLE #: TBD
 SERVICE ADDRESS: 13341 OLIVE BLVD
 CHESTERFIELD, MO 63017
 TRANSFORMER #: TBD
 POWER PROVIDER: AMEREN
 VOLTAGE: TO MATCH EXISTING
 FIXTURE WATTAGE: TO MATCH EXISTING

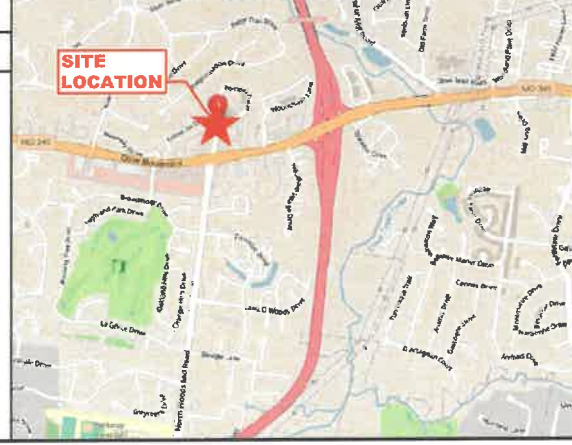
CONSULTING TEAM

ENGINEER:
 SSC, INC.
 7171 WEST 95TH STREET, SUITE 600
 OVERLAND PARK, KANSAS 66212
 PHONE: (913) 438-7700
 FAX: (913) 438-7777
LESSOR:
 VERIZON WIRELESS
 10740 NALL AVE, SUITE 400
 OVERLAND PARK, KANSAS 66211
 PHONE: (913) 438-7700
 FAX: (913) 438-7777
JURISDICTION:
 CITY OF CHESTERFIELD
 690 CHESTERFIELD PKWY W,
 CHESTERFIELD, MO 63017

AREA MAP



LOCATION MAP



APPLICABLE CODES

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

- INTERNATIONAL BUILDING CODE
- INTERNATIONAL MECHANICAL CODE
- ANSI/TIA-222 STRUCTURAL STANDARD
- NFPA 780 - LIGHTNING PROTECTION CODE
- UNIFORM PLUMBING CODE
- NATIONAL ELECTRICAL CODE
- NATIONAL ELECTRIC SAFETY CODE (NESC)
- AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO), STANDARD SPECIFICATION FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 6TH EDITION
- AMERICAN PUBLIC WORKS ASSOCIATION (APWA) AND ANY SUPPLEMENT CHANGES.
- AMERICAN WITH DISABILITIES ACT (ADA) OF 1990.
- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), A117.1 ACCESSIBLE AND USABLE BUILDING AND FACILITIES STANDARD
- OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) OF 1970
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70E, STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE (LATEST EDITION)

DRAWING NOTICE

11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED

THESE SITE PLANS ADHERE TO ALL OF THE REQUIREMENTS CALLED OUT IN THE JURISDICTION PLANNING AND ZONING FOR ANTENNAS AND SUPPORT STRUCTURES WHERE SITE IS LOCATED

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS / CONDITIONS ON SITE, IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY WORK OR BE RESPONSIBLE FOR THE SAME.

ALL TELECOM WORK TO BE COMPLETED BY CONTRACTOR EXPERIENCED WITH VERIZON, INSTALLATION AND CLOSEOUT PROCEDURES.

DRAWING INDEX

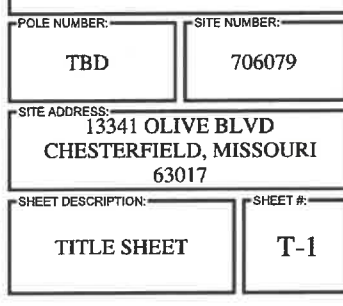
SHEET NO	SHEET TITLE	ENGINEER
T-1	TITLE SHEET	C/E
GN-1.0	GENERAL NOTES (1 OF 3)	C/E
GN-1.1	GENERAL NOTES (2 OF 3)	C/E
GN-1.2	GENERAL NOTES (3 OF 3)	C/E
	SURVEY (BY OTHERS)	
A-1.0	SITE PLAN	C
A-2.0	POLE ELEVATIONS	C
A-3.0	EQUIPMENT DETAILS (1 OF 2)	C
A-3.1	EQUIPMENT DETAILS (2 OF 2)	C
A-4.0	CABLE DIAGRAM & DETAILS	C
A-5.0	FOUNDATION DETAILS	C
E-1.0	ELECTRICAL DETAILS (1 OF 2)	E
E-1.1	ELECTRICAL DETAILS (2 OF 2)	E
G-1.0	GROUNDING RISER DIAGRAM	E

PROJECT DESCRIPTION

VZW CONTRACTOR:

- FURNISH AND INSTALL NEW POLE WITHIN AN EXISTING RIGHT-OF-WAY.
- INSTALL TELECOM EQUIPMENT ON NEW POLE
- INSTALL TELECOM ANTENNA ON NEW POLE INSTALL NEW POWER SERVICE
- INSTALL NEW VZW DARK FIBER SERVICE

QR CODE



PLANS PREPARED FOR:



7171 West 95th Street, Suite 600
 Overland Park, Kansas 66212
 Phone: 913-438-7700
 Fax: 913-438-7777

DRAWING NOTICE:
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SUBMITTALS:	DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW		02/22/22	CJO	A
REISSUED FOR REVIEW		06/14/22	CJO	B
REISSUED FOR REVIEW		06/24/22	CJO	C
ISSUED FOR CONSTRUCTION		07/19/22	CZW	0
FIXED ELEVATIONS		09/28/22	ABT	1

SITE NAME:

STLC CHF FS 04SC

POLE NUMBER: TBD
 SITE NUMBER: 706079

SITE ADDRESS:
 13341 OLIVE BLVD
 CHESTERFIELD, MISSOURI
 63017

SHEET DESCRIPTION: TITLE SHEET
 SHEET #: T-1

9/28/2022

GENERAL NOTES

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENT AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS BY A LAND SURVEYOR. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT.
- B. IMPORTANT NOTICE: 811 IS OPEN 24 HOURS A DAY, 365 DAYS PER YEAR, INCLUDING HOLIDAYS. FOR ALL TICKET LOCATE REQUESTS CALL 1-800 DIG RITE (1-800-344-7483)
- C. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN A 1" MINIMUM VERTICAL CLEARANCE.
- D. IF ANY EXISTING HARDSCAPE OR LANDSCAPE INDICATED ON THE APPROVED PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION, IT SHALL BE REPAIRED AND/OR REPLACED IN KIND PER THE APPROVED PLANS.
- E. CONTRACTOR SHALL REPLACE OR REPAIR ALL CITY OF CHESTERFIELD INFRASTRUCTURE DAMAGED DURING CONSTRUCTION.
- F. THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND FIELD ENGINEERING DIVISION.
- G. MANHOLES OR COVERS SHALL BE LABELED VERIZON. EXCEPT FOR MANHOLES OR COVERS PLACED ON BEHALF OF THE MUNICIPALITY FOR THEIR EQUIPMENT.
- H. CONTRACTOR SHALL IMPLEMENT AN EROSION CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
- I. THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION

SPECIAL NOTES

- A. INDEMNIFICATION CLAUSE: THE CONTRACTOR AGREES AND SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY OF THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTIES. THAT THESE REQUIREMENTS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONDITIONS. THE CONTRACTOR FURTHER AGREES TO DEFEND INDEMNITY AND HOLD SSC, REPRESENTATIVES, AND ENGINEERS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT.
- B. ALL WORK SHALL CONFORM TO THE LATEST STANDARD "SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" AS ADOPTED BY THE CITY, COUNTY OR STATE AS MODIFIED BY STANDARD PLANS AND ADDENDUMS
- C. THE EXISTENCE AND LOCATION OF UTILITIES AND OTHER AGENCY'S FACILITIES AS SHOWN HEREON ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. OTHER FACILITIES MAY EXIST. THE CONTRACTORS SHALL VERIFY PRIOR TO THE START OF CONSTRUCTION AND SHALL USE EXTREME CARE AND PROTECTIVE MEASURES TO PREVENT DAMAGE TO THESE FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION ALL UTILITY OF AGENCY FACILITIES WITHIN THE LIMITS OF WORK, WHETHER THEY ARE SHOWN ON THIS PLAN OR NOT.
- D. THE CONTRACTOR SHALL NOTIFY THE CITY, COUNTY OR STATE ENGINEER INSPECTION DEPARTMENT, AT LEAST TWO TWO DAYS BEFORE START OF ANY WORK REQUIRING THEIR INVOLVEMENT.
- E. THE CITY, COUNTY OR STATE SHALL SPECIFY THE EXPIRATION PERIOD OF THE PERMIT FOR THIS CONSTRUCTION PROJECT.
- F. THE MINIMUM COVER FOR ALL CONDUITS PLACED UNDERGROUND SHALL BE 36 INCHES TO THE FINISHED GRADE AT ALL TIMES.
- G. THE CONTRACTOR SHALL TUNNEL ALL CURB AND GUTTER AND BORE ALL CONCRETE DRIVEWAYS AND WALKWAYS AT THE DIRECTION OF THE CITY, COUNTY OR STATE ENGINEER
- H. ALL A.C AND/OR CONCRETE PAVEMENT SHALL BE REPLACED AT THE DIRECTION OF THE CITY, COUNTY STATE ENGINEERS
- I. ALL SHRUBS, PLANTS OR TREES THAT HAVE BEEN DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK, SHALL BE REPLANTED AND/OR REPLACED SO AS TO RESTORE THE WORK SITE TO ITS ORIGINAL CONDITION.
- J. THE CONTRACTOR WILL BE RESPONSIBLY FOR THE PROCESSING OF ALL APPLICANT PERMIT FORMS ALONG WITH THE REQUIRED LIABILITY INSURANCE FORMS. CLEARLY DEMONSTRATING THE SSC, THE CITY, COUNTY OR STATE IS ALSO INSURED WITH THE REQUIRED LIABILITY INSURANCE FOR THIS CONSTRUCTION PROJECT.
- K. VAULTS, PEDESTALS, CONDUITS AND OTHER TYPES OF SUBSTRUCTURE ARE EITHER SPECIFIED ON THIS PLAN OR WILL BE SPECIFIED BY THE CONSTRUCTION ENGINEER. ANY AND ALL DEVIATIONS FROM THE SPECIFIED TYPES OF MATERIAL MUST BE APPROVED BY THE SYSTEM ENGINEER, IN WRITING BEFORE INSTALLATION THEREOF. ANY EQUIPMENT OR MATERIALS PLACED ON BEHALF OF THE GOVERNING MUNICIPALITY (STREET LIGHT MATERIALS FOR EXAMPLE) WILL BE SAID MUNICIPALITY'S APPROVED MATERIALS LIST.

- L. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES INCLUDING SEWER LATERALS & WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICALLY AND HORIZONTALLY PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
- M. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
- N. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE, WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTALLY AND VERTICALLY. PRIOR TO CONSTRUCTION, IF EXISTING LOCATION VARY SUBSTANTIALLY FROM THE PLANS. THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
- O. ALL MATERIALS USED IN CONSTRUCTION THAT WILL BE OWNED AND MAINTAINED BY THE CITY OF CHESTERFIELD SHALL BE FROM THE APPROVED MATERIALS LIST.

EROSION AND SEDIMENT CONTROL NOTES

TEMPORARY EROSION/SEDIMENT CONTROL PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:

- A. ALL REQUIREMENTS OF THE CITY, COUNTY AND STATE "STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP), WATER QUALITY TECHNICAL REPORT (WQTR), AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
- B. FOR STORM DRAIN INLETS, PROVIDE AS GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM INLET AS INDICATED ON DETAILS.
- C. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES. THE CONTRACTOR SHALL ENSURE WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00' FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OF DIKES
- D. THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
- E. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL
- F. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL
- G. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
- H. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OF RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
- I. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE
- J. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE THE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
- K. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITION SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
- L. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY
- M. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IMMINENT
- N. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
- O. THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURE AND OTHER RELATED CONSTRUCTION ACTIVITIES.

ROW GROUND CONSTRUCTION NOTES:

- A. 120/240 OR 120/208 POWER REQUIRED FOR 1-PHASE, 3-WIRE SERVICE.
- B. GC TO REMOVE/CLEAN ALL DEBRIS, NAILS, STAPLES OR NON-USED VERTICALS OFF THE POLE
- C. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH MUNICIPAL, COUNTY, STATE, AND FEDERAL STANDARDS AND REGULATIONS.
- D. CALL DIG SAFE USA 72 HOURS PRIOR TO EXCAVATING AT (800) 344-7233.
- E. ALL LANDSCAPING TO BE RESTORED TO ORIGINAL CONDITION OR BETTER
- F. ALL EQUIPMENT TO BE BONDED
- G. METERING CABINET REQUIRES 3' CLEARANCE AT DOOR OPENING.
- H. CAULK CABINET BASE AT PAD

STANDARD GROUNDING NOTES:

- A. GROUND TESTED AT 5 OHMS OR LESS
- B. 5/8" X 8'-0" ROD, CADWELD BELOW GRADE
- C. #6 WIRE. FOR GROUNDING AND BONDING
- D. WOOD MOLDING, STAPLED EVERY 3' AND AT EACH END
- E. GROUNDS 3' FROM POLE.

STANDARD CONDUIT NOTES:

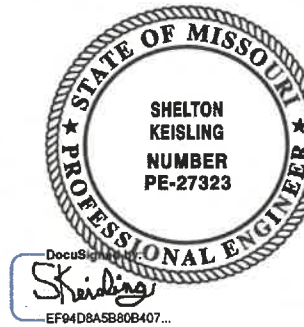
- A. FOR UNDERGROUND USE SCHEDULE 40 CONDUIT.
- B. FOR RISERS USE SCHEDULE 80 CONDUIT.
- C. PLACE 2" GALVANIZED STEEL CONDUIT FOR ANY CONDUIT UNDER 3".
- D. CONVERT 4" CARRIER CONDUIT TO 3" AT BASE OF POLE.
- E. GC TO STUB UP POLE 10' W/3" POWER CONDUIT, POWER CO. TO CONVERT FROM 3" SCH. 80 TO 2" SCH. 80 FROM TOP OF STUB UP.
- F. ALL CONDUIT SHALL BE MANDREL TESTED AND EQUIPPED WITH 3/8" PULL ROPE.

STANDARD CONDUIT NOTES:

- A. SAND BEDDING MINIMUM 1" UNDER CONDUITS, AND 6" SANDSHADING ON TOP REQUIRED.
- B. ALL TRENCHED ELECTRICAL SERVICE CONDUITS FROM POWER COMPANY, WHETHER FROM POLES, TRANSFORMERS, OR OTHER LOCATIONS; WILL BE SLURRY BACKFILLED
- C. IN STREET SLURRY TO GRADE AND MILL DOWN 1-1/2" FOR AC CAP.
- F. IN DIRT SLURRY 18" FROM GRADE, AND FILL WITH 95% COMPACTION NATIVE SOIL FOR BALANCE.
- G. PLACE WARNING TAPE IN TRENCH 12" ABOVE ALL CONDUITS AND #18 WARNING TAPE ABOVE GROUND RING

ROW GROUND CONSTRUCTION NOTES:

- A. NO BOLT THREADS TO PROTRUDE MORE THAN 1-1/2".
- B. FILL ALL HOLES LEFT IN POLE OF REARRANGEMENT OF CLIMBERS.
- C. ALL CLIMB STEPS NEXT TO CONDUITS SHALL HAVE EXTENDED STEPS.
- D. CABLE NOT TO IMPEDE 15" CLEAR SPACE OFF POLE FACE (12:00)
- E. 90° SHORT SWEEPS UNDER ANTENNA ARM. ALL CABLES MUST ONLY TRANSITION ON THE INSIDE OR BOTTOM OF ARMS (NO CABLE ON TOP OF ARMS).
- F. USE CABLE CLAMPS TO SECURE CABLE TO ARMS; PLACE 2" CARRIER CABLE ID TAGS ON BOTH SIDES OF ARMS.
- G. USE 90° CONNECTOR AT CABLE CONNECTION TO ANTENNAS.
- H. USE 1/2" CABLE ON ANTENNAS UNLESS OTHERWISE SPECIFIED.
- I. FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SEALANT TO PREVENT WATER INTRUSION



STAMP: 9/28/2022



ENGINEERING LICENSE:
STATE OF MISSOURI
STATE CERTIFICATE OF AUTHORIZATION # EF-2791

ENGINEER	PE#	DISCIPLINE
KM KEVIN M VANMAELE	PE-021561	CIVIL
REJ ROBERT E JENSEN	PE-028974	CIVIL
CG CHRISTOPHER GIANNOTTI	PE-2020038653	CIVIL
SKS SHELTON D KEISLING	PE-27323	ELECTRICAL
TMS TERRANCE M SUPER	PE-18621	ELECTRICAL

PLANS PREPARED FOR:



PLANS PREPARED BY:
7171 West 95th Street, Suite 600
Overland Park, Kansas 66212
Phone: 913-438-7700
Fax: 913-438-7777

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FIXED ELEVATIONS	09/28/22	ABT	1

SITE NAME:
STLC CHF FS 04SC

POLE NUMBER: TBD
SITE NUMBER: 706079

SITE ADDRESS:
13341 OLIVE BLVD
CHESTERFIELD, MISSOURI
63017

SHEET DESCRIPTION: GENERAL NOTES (1 OF 3)
SHEET #: GN-1.0

ELECTRICAL

- CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS PRIOR TO ORDERING THE ELECTRICAL EQUIPMENT AND STARTING THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT/ENGINEER LISTING ANY DISCREPANCIES OR CONFLICTING INFORMATION.
- ELECTRICAL PLANS, DETAILS AND DIAGRAMS ARE DIAGRAMMATIC ONLY. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS OR ELECTRICAL EQUIPMENT WITH OWNER PRIOR TO INSTALLATION.
- EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, JUNCTION BOX, SWITCH BOX, ETC. THE TYPE OF TAGGING METHODS SHALL BE IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.)
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN GOOD WORKING CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED "U.L." WHERE APPLICABLE. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, NBFU AND "U.L." LISTED.
- ALL CONDUIT SHALL HAVE A PULL CORD.
- PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
- ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY IBC, NEC AND ALL APPLICABLE CODES.
- PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
- PLASTIC PLATES FOR ALL SWITCHES, RECEPTACLES, TELEPHONE AND BLANKED OUTLETS SHALL HAVE ENGRAVED LETTERING WHERE INDICATED ON THE DRAWINGS. WEATHERPROOF RECEPTACLES SHALL HAVE SIERRA #WPD-8 LIFT COVER PLATES.

SERVICE AND DISTRIBUTION

- STREETLIGHTING DISTRIBUTION CABLE MUST BE #2, #4, #6, OR #8 AWG CU RHW/USE, 600V, COPPER STRANDED AND COLOR CODED BLACK, RED (OR BLACK) AND GREEN (APWA 2802.8) FOR A GROUNDED 240V SYSTEM (SINGLE PHASE).
- STREETLIGHTING DISTRIBUTION CABLE SHALL BE INSTALLED IN SCHEDULE 40, 2" PVC CONDUIT OR IN PREASSEMBLED "CABLE-IN-DUCT." ALL CONDUIT RUNS SHALL BE PLACED 24" FROM BACK OF CURB WHERE POSSIBLE AND AT A MINIMUM DEPTH OF 24"
- STREETLIGHT CABLE USED WITHIN THE POLES SHALL BE 3 - #10, TYPE RHW/USE, 600 VOLTS RATED, COPPER, U.L. LISTED AND COLOR-CODED RED, BLACK AND GREEN ACCORDING TO THE NEC.
- PROVIDE AND INSTALL IN EACH POLE BASE, 3 SINGLE-POLE, SET-SCREW, IN-LINE, BREAKAWAY, FUSEHOLDERS. USE BUSSMAN (OR APPROVED EQUAL) MODEL NO. HEB-JW-RYC AND HEB-JW-RLC-J (LAST POLE). FOR THE 2 "HOT" BREAKAWAY CONDUCTORS, PLACE A 10 AMP KTK FUSE IN EACH BREAKAWAY FUSEHOLDER AND A NNB COPPER SLUG IN THE SYSTEM GROUND FUSEHOLDER.
- WIRE AND CABLE CONDUCTORS SHALL BE COPPER, 600V, TYPE THHN OR THWN, WITH A MIN. SIZE OF #12 AWG, COLOR CODED, UNLESS OTHERWISE NOTED.
- METER SOCKET AMPERES, VOLTAGE, NUMBER OF PHASES SHALL BE NOTED ON THE DRAWINGS. MANUFACTURED BY MILBANK OR APPROVED EQUAL, AND SHALL BE UTILITY COMPANY APPROVED.
 - RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH GALVANIZED ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
 - FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. ALL FLEXIBLE CONDUITS SHALL HAVE FULL LENGTH GROUND WIRE.
 - IT IS REQUIRED AND WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO NOTIFY 811 OR OTHER SUCH UTILITY LOCATING AGENCY 3 DAYS BEFORE DIGGING.

- CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS ARE TO BE PAID BY THE CONTRACTOR.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS WITH WHITE ON BLUE BACKGROUND LETTERING (MINIMUM LETTER HEIGHT SHALL BE ONE FOURTH INCH (1/4"). NAMEPLATES SHALL BE FASTENED WITH STAINLESS STEEL SCREWS, NOT ADHESIVE.
- UPON COMPLETION OF WORK, CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS BY AN INDEPENDENT TESTING SERVICE ENGAGED BY THE CONTRACTOR SHALL BE SUBMITTED FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
- GROUNDED ELECTRODE SYSTEM
 - PREPARATION
 - SURFACE PREPARATION: ALL CONNECTIONS SHALL BE MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE FIELD INSPECTED AND MODIFIED TO ENSURE PROPER CONTACT. NO WASHERS ARE ALLOWED BETWEEN THE ITEMS BEING GROUNDED. ALL CONNECTIONS ARE TO HAVE A NON-OXIDIZING AGENT APPLIED PRIOR TO INSTALLATION.
 - IF CONDUCTORS MUST RUN THROUGH CONDUIT, BOTH ENDS OF CONDUIT SHALL BE GROUNDED. SEAL BOTH ENDS OF CONDUIT WITH SILICONE CAULK.
 - EXTERNAL CONNECTIONS
- ALL BURIED GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELD PROCESS. CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE, SPLICES, TEE'S, CROSSES, ETC. ALL CABLE TO GROUND RODS, GROUND ROD SPLICES AND LIGHTNING PROTECTION SYSTEMS ARE TO BE AS INDICATED. ALL MATERIALS USED (MOLDS, WELDING METAL, TOOLS, ETC.) SHALL BE BY "ULTRAWELD" AND INSTALLED PER MANUFACTURER'S RECOMMENDED PROCEDURES.
- ALL ABOVE GRADE GROUNDING AND BONDING CONDUCTORS SHALL BE CONNECTED BY TWO HOLE CRIMP TYPE (COMPRESSION) CONNECTIONS (EXCEPT FOR THE ACEG AND GROUND ROD). MECHANICAL CONNECTIONS, FITTINGS OR CONNECTIONS THAT DEPEND SOLELY ON SOLDER SHALL NOT BE USED. ALL CABLE TO CABLE CONNECTIONS SHALL BE HIGH PRESSURE DOUBLE CRIMP TYPE CONNECTIONS. CONNECTIONS TO STRUCTURAL STEEL SHALL BE EXOTHERMIC WELDS.

- GROUND RODS: ALL GROUND RODS SHALL BE 5/8-INCH DIAMETER X 10'-0" LONG "COPPERWELD" OR APPROVED EQUAL, OF THE NUMBER AND LOCATIONS INDICATED. GROUND RODS SHALL BE DRIVEN FULL LENGTH VERTICAL IN UNDISTURBED EARTH.
- GROUND CONDUCTORS: ALL GROUND CONDUCTORS SHALL BE STANDARD TINNED SOLID BARE COPPER ANNEALED, AND OF SIZE INDICATED ON DRAWINGS UNLESS OTHERWISE NOTED.
- LUGS.
 - 535 MCM DLO 54880BE
 - 262 MCM DLO 54872BE
 - #1/0 DLO 54862BE
 - #4/0 THWN AND BARE 54866BE
 - #2/0 THWN 54862BE
 - #2 THHN 54207BE
 - #8 DLO54205BE

- LUGS SHALL BE 2-HOLE, LONG BARREL, STRAND COPPER UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS. LUGS SHALL BE THOMAS AND BETTS SERIES #54____BE OR EQUIVALENT
- WHEN THE DIRECTION OF THE CONDUCTOR MUST CHANGE, IT SHALL BE DONE GRADUALLY. THE CURVATURE OF THE TURN SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING CHART:

MINIMUM BENDING GROUNDING CONDUCTOR SIZE	RADIUS TO INSIDE EDGE
NO. 6 AWG TO NO. 4 AWG 6 INCHES	
NO. 2 AWG TO NO 1/0 AWG 8 INCHES	
NO. 2/0 AWG TO 4/0 AWG 12 INCHES	
NO. 250 MCM TO 750 MCM 24 INCHES	
- GROUNDED RESISTANCE TEST REPORT: UPON COMPLETION OF THE TESTING FOR EACH SITE, A TEST REPORT SHOWING RESISTANCE IN OHMS MUST BE SUBMITTED. TWO (2) SETS OF TEST DOCUMENTS FROM THE INDEPENDENT TESTING SERVICE ARE TO BE BOUND AND SUBMITTED WITHIN ONE (1) WEEK OF WORK COMPLETION.

**POLES, POSTS, AND STANDARDS
(SINGLE MAST AND SELF SUPPORTING TOWERS)**

- GENERAL
 - LIGHTNING ROD AND EXTENSION PIPE INCLUDING ALL APPURTENANCES, TO BE FURNISHED BY VERIZON, IF REQUIRED.
 - GROUNDED: GROUND METAL POLES WITH A MINIMUM OF #2 AWG TINNED SOLID BARE COPPER CONDUCTOR USING EXOTHERMIC CONNECTION TO TOWER BASE PLATE.

**TELECOMMUNICATIONS WIRING COMPONENTS
(COAXIAL ANTENNA CABLE)**

- GENERAL
 - ALL MATERIALS, PRODUCTS OR PROCEDURES INCORPORATED INTO WORK SHALL BE NEW AND OF STANDARD COMMERCIAL QUALITY.
 - ALL MATERIALS AND PRODUCTS SPECIFIED IN THE CONTRACT DOCUMENTS SHALL BE SUPPLIED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
- MATERIALS:
 - COAXIAL CABLE:
 - INSTALL COAXIAL CABLE AND TERMINATIONS BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS WITH COAXIAL CABLES SUPPORTED AT NO MORE THAN 3'-0" O.C. WEATHERPROOF ALL CONNECTORS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE FEET (3') IN EXCESS OF EQUIPMENT LOCATION UNLESS OTHERWISE STATED.
 - LENGTHS LESS THAN OR EQUAL TO 100 FEET SHALL BE 7/8".
 - ANTENNA AND COAXIAL CABLE GROUNDING
 - ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)
 - COAXIAL CABLE IDENTIFICATION
 - TO PROVIDE EASY IDENTIFICATION AND UNIFORM MARKING OF ANTENNA CABLING, PLASTIC TAGS SHALL BE USED AT THE FOLLOWING LOCATIONS:
 - FIRST LOCATION IS AT THE END OF THE COAX NEAREST THE ANTENNA (WHERE THE COAXIAL CABLE AND JUMPER ARE CONNECTED).
 - SECOND LOCATION IS AT END OF THE COAX NEAREST THE EQUIPMENT.
 - USE ANDREW CABLE TIES (PT.# 27290) TO SECURE IDENTIFICATION TAGS.
 - TESTING: LESSEE SHALL PROVIDE AN INDEPENDENT TESTING AGENCY TO PERFORM THE COAXIAL SWEEP TEST & REPORT. THE CONTRACTOR IS TO PROVIDE ONE CLIMBER/QUALIFIED PERSONNEL TO ASSIST IN ANY REPAIRS AND WEATHERPROOFING ONCE THE TEST IS COMPLETE. THE CONTRACTOR IS TO PROVIDE LESSEE WITH A MINIMUM OF 48 HOURS NOTICE PRIOR TO THE TIME OF THE SWEEP TEST.



9/28/2022

STAMP: 9/28/2022



ENGINEERING LICENSE:

STATE OF MISSOURI

STATE CERTIFICATE OF AUTHORIZATION # EF-2791

ENGINEER	PER	DISCIPLINE
KVAV KEVIN M VANMAELE	PE-021561	CIVIL
REJ ROBERT E. JENSEN	PE-028974	CIVIL
CG CHRISTOPHER GUANNOTTI	PE-2020938653	CIVIL
SOK SHELTON D. KEISLING	PE-27323	ELECTRICAL
TWS TERRANCE M. SUPER	PE-18021	ELECTRICAL

PLANS PREPARED FOR:



PLANS PREPARED BY:

SSC

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FIXED ELEVATIONS	09/28/22	ABT	1

SITE NAME:

STLC CHF FS 04SC

POLE NUMBER:	SITE NUMBER:
TBD	706079

SITE ADDRESS:

13341 OLIVE BLVD
CHESTERFIELD, MISSOURI
63017

SHEET DESCRIPTION:

GENERAL NOTES
(2 OF 3)

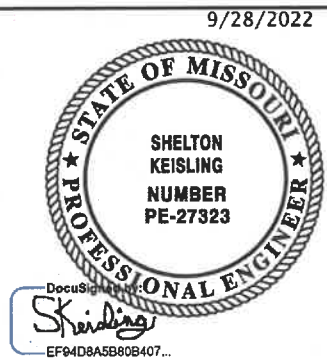
SHEET #:

GN-1.1

PART 4 -- GENERAL NOTES PER IB 2018001 SECTION 4.05

- a. "ALL WORK SHALL COMPLY WITH THE KIRKWOOD, MO., DEPARTMENT OF PUBLIC WORKS, STANDARD CONSTRUCTION AND MATERIALS SPECIFICATION, DIVISION II, SECTION 2800, DIVISION V, SECTION 5800 AND SUPPLEMENTAL CHANGES."
- b. "THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESTORATION OF THE CONSTRUCTION SITE TO CITY SPECIFICATIONS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL COST ASSOCIATED WITH ANY DAMAGE, INCLUDING BUT NOT LIMITED TO LANDSCAPING, SPRINKLER SYSTEMS, WATER, SEWER, CURBS AND SIDEWALK, GAS MAIN, ETC., CAUSED BY THE CONSTRUCTION. RESTORATION OF THE CITY'S RIGHT-OF-WAY IS REQUIRED TO COMPLY WITH APPLICABLE APWA STANDARDS."
- c. "ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE STREET LIGHTING DIVISION, PUBLIC WORKS DEPARTMENT. COORDINATE INSPECTIONS WITH SARA HURST AT (816) 513-9882 OR BRYAN CARTER AT (816) 513-9857."
- d. "THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE. THE CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND PIPELINES, CONDUITS, STRUCTURES AND OVERHEAD LINES BY CONTACTING THE OWNERS OF THE UTILITIES."
- e. "ALL STREET LIGHTING DISTRIBUTION CABLE SHALL BE INSTALLED IN 2" SCHEDULE 40, PVC CONDUIT OR APPROVED EQUAL. ALL CONDUIT RUNS SHALL BE PLACED 24" FROM BACK OF CURB WHERE POSSIBLE AND AT A MINIMUM DEPTH OF 24".
- f. "UNDERGROUND DISTRIBUTION CABLE MUST BE #2, #4, #6 OR #8, TYPE THWN, 600 VOLT, COPPER AND COLOR CODED ACCORDING TO THE NEC. ALL DISTRIBUTION CABLE MUST BE CONTINUOUS (UNSPliced) FROM THE PRECEDING LIGHT POLE, JUNCTION BOX OR CONTROLLER TO THE BREAKAWAY FUSE HOLDER IN THE BASE OF THE POLE. OVERHEAD CABLE SHALL BE #4 OR #6 PER EXISTING CONDITION. OVERHEAD CONDUCTORS SHALL BE ALUMINUM, COLOR CODED ACCORDING TO THE NEC, INSULATED WITH CROSS-LINK POLYETHYLENE AND SIZED PER PLANS. SUPPORTING HARDWARE SHALL BE 5/8 INCH OR 16,000 POUND, STANDARD POLE LINE HARDWARE. WEDGE CLAMPS SHALL HAVE ALUMINUM WEDGES AND STAINLESS STEEL BAILS AND SHELLS. CONNECTORS SHALL BE STANDARD BOLTED TYPE CONDUCTORS WITH OXIDE INHIBITORS TO PREVENT CORROSION (APWA 2802.8). NO MID-SPAN SPLICES ARE ALLOWED."
- g. "CABLE USED WITHIN THE POLES SHALL BE #10, TYPE THWN, 600 VOLTS RATED, COPPER, U.L. LISTED AND COLOR-CODED ACCORDING TO THE NEC."
- h. "PROVIDE AND INSTALL IN EACH POLE BASE A SINGLE-POLE, SET-SCREW, IN-LINE, BREAKAWAY, FUSE HOLDER FOR EACH CONDUCTOR. USE BUSSMAN (OR APPROVED EQUAL) MODEL NO. HEB-JW-RYC AND HEB-JW-RLC-J (LAST POLE). FOR THE UNDERGROUND ("HOT") CONDUCTORS, PLACE A 10 AMP KTK FUSE IN EACH BREAKAWAY FUSE HOLDER AND A NNB COPPER SLUG IN THE SYSTEM GROUND FUSE HOLDER."
- i. "LUMINAIRE LABELS: THE LABELS SHALL BE KCMO-2X16-ADDS OR APPROVED EQUAL CONTACT WILLIAM FRICK & COMPANY AT (847) 918-3700. THE CONTRACTOR SHALL FURNISH AND INSTALL LUMINAIRE IDENTIFICATION LABELS ACCORDING TO THE CONSTRUCTION PLANS. IDENTIFICATION LABELS SHALL CONSIST OF THREE LETTERS AND FOUR NUMERALS IN VERTICAL ORIENTATION WITH THE LETTERS AT THE TOP SO AS TO READ DOWNWARD. LABELS SHALL BE 2 INCH SERIES "C" UPPER CASE BLACK CHARACTERS ON SILVER RETRO-REFLECTIVE SHEETING WITH PRESSURE SENSITIVE ADHESIVE BACKING, AS PRESCRIBED FOR USE ON STANDARD HIGHWAY SIGNS IN THE FHWA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. LABELS FOR DECORATIVE POLES MUST BE COORDINATED WITH THE STREET LIGHTING DIVISION AT (816) 513-9874. STEEL POLES SHALL BE LABELED BY AFFIXING A SELF-ADHESIVE DECAL DIRECTLY ON THE POLE. LABELS INTENDED FOR MOUNTING ON WOOD POLES SHALL BE APPLIED TO A METAL PLACARD AND ATTACHED DIRECTLY TO THE POLE. THE LABEL SHALL BEAR THE NUMBER SHOWN ON THE PLAN OR AS DIRECTED BY THE CITY REPRESENTATIVE AND BE POSITIONED ON THE VERTICAL AXIS OF THE POLE FACING THE STREET, 8-10 FEET ABOVE THE PAVEMENT SURFACE. CONTROLLER CABINET LABELS: CONTROLLER CABINETS SHALL BE PERMANENTLY LABELED WITH THE NUMERIC ADDRESS OF THE EQUIPMENT. LABELS SHALL BE 4 INCH SERIES "C" UPPER CASE BLACK CHARACTERS ON SILVER RETRO-REFLECTIVE SHEETING WITH PRESSURE SENSITIVE ADHESIVE BACKING. LABELS SHALL BE POSITIONED NEAR THE TOP OF THE CONTROLLER AND FACE THE ADDRESSED STREET."
- j. IF THE POLE IS OWNED BY THE ATTACHEE: "THE CONTRACTOR SHALL FURNISH AND INSTALL AN OWNERSHIP IDENTIFICATION LABEL ACCORDING TO THE CONSTRUCTION PLANS. IDENTIFICATION LABELS SHALL CONSIST OF A UNIQUE NUMBER FOLLOWED BY THE FIRST THREE LETTERS OF THE POLE OWNERS NAME IN VERTICAL ORIENTATION WITH THE LETTERS AT THE BOTTOM SO AS TO READ DOWNWARD. LABELS SHALL BE SERIES "C" UPPER CASE BLACK CHARACTERS ON SILVER RETRO-REFLECTIVE SHEETING WITH PRESSURE SENSITIVE ADHESIVE BACKING, AS PRESCRIBED FOR USE ON STANDARD HIGHWAY SIGNS IN THE FHWA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES OR APPROVED EQUAL. LABELS FOR DECORATIVE POLES MUST BE COORDINATED WITH THE STREET LIGHTING DIVISION AT (816) 513-9874. THE LABEL SHALL BE POSITIONED ON THE VERTICAL AXIS OF THE POLE FACING THE STREET AND 8-8 FEET ABOVE THE PAVEMENT SURFACE."
- k. "THE CONTRACTOR SHALL STAKE ALL POLE RELOCATIONS. PRIOR TO ANY CONSTRUCTION, THE STREET LIGHTING INSPECTOR SHALL VERIFY ALL POLE RELOCATIONS STAKED BY THE CONTRACTOR. POLE SETBACK SHALL BE 2' TO 3' FROM BACK OF CURB. ALL POLES MUST BE INSTALLED PERPENDICULAR TO THE STREET. NO DIAGONAL INSTALLATIONS ARE ALLOWED. THE MOUNTING HEIGHT SHALL MATCH EXISTING INSTALLATIONS. MINIMUM ADA SIDEWALK CLEARANCES SHALL BE MAINTAINED."

- l. "ALL ATTACHMENTS ON THE EXISTING LIGHT POLE MUST BE INSTALLED ON THE NEW POLE WITH THE SAME PLACEMENT (HEIGHT, DIRECTION, ETC.). ALL COSTS FOR REMOVAL AND REINSTALLATION OF EXISTING ATTACHMENTS (SIGNS, BANNERS, OTHER TELECOMMUNICATION EQUIPMENT, ETC.) SHALL BE THE RESPONSIBILITY OF THE ATTACHEE. ALL ATTACHMENTS NOT INDICATED ON PLANS MUST BE COORDINATED WITH THE ENGINEER."
- m. "ALL POWER COORDINATION MUST BE PERFORMED BY DESIGNER, DEVELOPER AND CONTRACTOR."
- n. "CONTRACTOR MUST BE A LICENSED ELECTRICIAN WITH THE CITY OF KIRKWOOD, MO AND BE AN EXPERIENCED AND QUALIFIED LINEMAN. THE CITY OF KIRKWOOD IS NOT RESPONSIBLE FOR ANY PART OF THE WORK TO BE DONE."
- o. ALL EQUIPMENT AND MATERIALS SPECIFIED IN THESE PLANS SHALL BE EVALUATED BASED ON A STANDARD FOR WHICH THE EQUIPMENT IS TO BE USED, LISTED AND LABELED BY UNDERWRITERS LABORATORIES OR OTHER THIRD PARTY LISTING AGENCY RECOGNIZED IN THE UNITED STATES. ALL EQUIPMENT SHALL BE INSTALLED AND USED PER THE LISTING INSTRUCTIONS
- p. CONTRACTOR COORDINATION PROCEDURES WITH THE CITY OF KIRKWOOD.
 - 1. THE PUBLIC WORKS DEPARTMENT, STREET LIGHTING DIVISION WILL ONLY ACCEPT ONE POINT OF CONTACT (PROJECT MANAGER) AT THE CONSTRUCTION STAGE. THE PROJECT MANAGER MUST BE EMPLOYED BY THE ATTACHEE THE CITY HAS SIGNED THE POLE ATTACHMENT AGREEMENT WITH. THIS PERSON MUST CONTACT PUBLIC WORKS DEPARTMENT, STREET LIGHTING DIVISION (SARA HURST, (816) 513-9882, SARA.HURST@KCMO.ORG) 5 BUSINESS DAYS PRIOR TO THE START OF WORK TO NOTIFY THE CITY OF YOUR INTENTION TO BEGIN WORK AND SUBMIT A CONSTRUCTION SCHEDULE. A PRE-INSPECTION WILL BE MADE TO DETERMINE CURRENT STATE OF THE SITE AND POLE. A STREET LIGHTING INSPECTOR WILL BE ASSIGNED TO THE PROJECT AND WILL COORDINATE ALL NECESSARY INSPECTIONS WITH THE PROJECT MANAGER.
 - 2. THE ATTACHEE'S CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES TO INCLUDE UNDERGROUND PIPELINES, CONDUITS, STRUCTURES AND OVERHEAD LINES BY CONTACTING THE OWNERS OF THE UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES AS NECESSARY TO AVOID DAMAGE.
 - 3. THE ATTACHEE'S CONTRACTOR SHALL COORDINATE STREETLIGHT POWER DISCONNECTION. IF THE POLE IS DIRECT FED AND HAS NO MEANS OF DISCONNECTION, THE CONTRACTOR IS RESPONSIBLE FOR MAKING ARRANGEMENTS TO DISCONNECT POWER. POWER DISCONNECTION MUST BE MADE BY A LICENSED ELECTRICIAN WITH THE CITY OF KIRKWOOD, MO AND BE A EVERY CERTIFIED LINEMAN. THIS SERVICE CAN BE PROVIDED BY ANY COMPANY MEETING THESE QUALIFICATIONS OR BY OUR MAINTENANCE CONTRACTOR, BLACK AND McDONALD. THE CITY OF KIRKWOOD IS NOT RESPONSIBLE FOR COORDINATION OR PAYMENT OF ANY PART OF THE WORK TO BE DONE.
 - 4. THE ATTACHEE'S CONTRACTOR SHALL COMPLETE THE INSTALLATION OF EQUIPMENT AND RESTORE THE SITE TO CITY STANDARDS. ALL COSTS FOR REMOVAL AND REINSTALLATION OF EXISTING ATTACHMENTS SHALL BE THE RESPONSIBILITY OF THE ATTACHEE.
 - 5. COORDINATE FINAL INSPECTION WITH THE STREET LIGHTING INSPECTOR. ALL CHANGES TO THE CITY APPROVED PLAN MUST BE APPROVED PRIOR TO THE WORK BEING COMPLETED. PROVIDE A LABEL ON THE POLE WITH THE ATTACHEE'S EMERGENCY CONTACT INFORMATION. IF THE POLE IS OWNED BY THE ATTACHEE, PROVIDE A PERMANENT POLE IDENTIFICATION LABEL INSTALLED PER PLAN.



ENGINEERING LICENSE:
STATE OF MISSOURI
STATE CERTIFICATE OF AUTHORIZATION # EF-2791

ENGINEER	PE#	DISCIPLINE
KM V KEVIN M VANMAELE	PE-021561	CIVIL
RE J ROBERT E JENSEN	PE-028874	CIVIL
CS CHRISTOPHER GIANNOTTI	PE-002903653	CIVIL
SD K SHELTON D KEISLING	PE-27323	ELECTRICAL
TMS TERRANCE M SUPER	PE-19521	ELECTRICAL

PLANS PREPARED FOR:



PLANS PREPARED BY:
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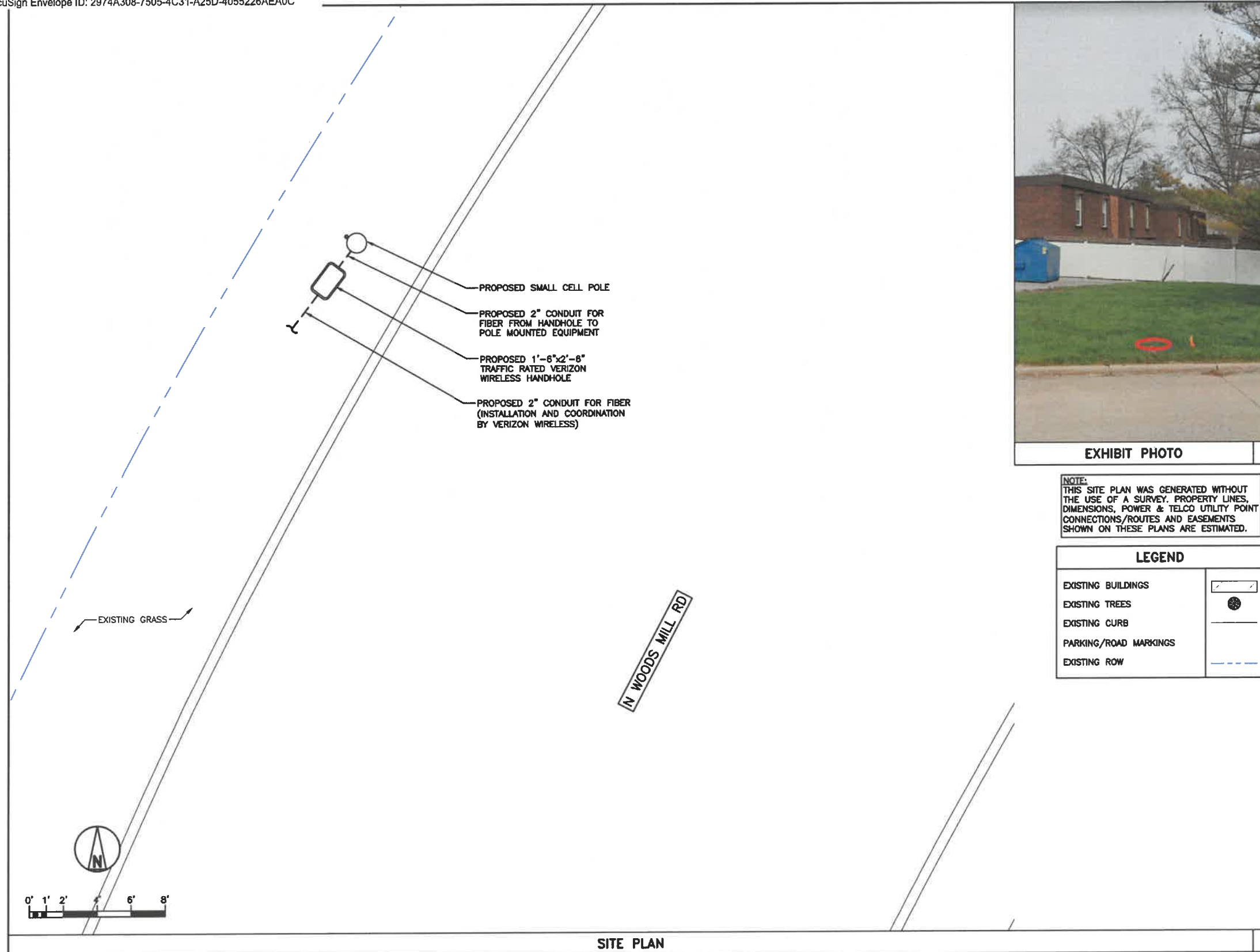
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REISSUED FOR REVIEW	06/24/22	CJO	C
ISSUED FOR CONSTRUCTION	07/19/22	CZW	0
FIXED ELEVATIONS	09/28/22	ABT	1

SITE NAME:
STLC CHF FS 04SC

POLE NUMBER: **TBD** SITE NUMBER: **706079**

SITE ADDRESS:
**13341 OLIVE BLVD
 CHESTERFIELD, MISSOURI
 63017**

SHEET DESCRIPTION: **GENERAL NOTES (3 OF 3)** SHEET #: **GN-1.2**



SITE PLAN

1



EXHIBIT PHOTO

1

NOTE:
THIS SITE PLAN WAS GENERATED WITHOUT THE USE OF A SURVEY. PROPERTY LINES, DIMENSIONS, POWER & TELCO UTILITY POINT CONNECTIONS/ROUTES AND EASEMENTS SHOWN ON THESE PLANS ARE ESTIMATED.

LEGEND

EXISTING BUILDINGS	
EXISTING TREES	
EXISTING CURB	
PARKING/ROAD MARKINGS	
EXISTING ROW	

STAMP: 9/28/2022



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CG CHRISTOPHER GIANNOTTI	PE-2020058653	CIVIL
SJM SHELTON D. JENSEN	PE-27333	ELECTRICAL
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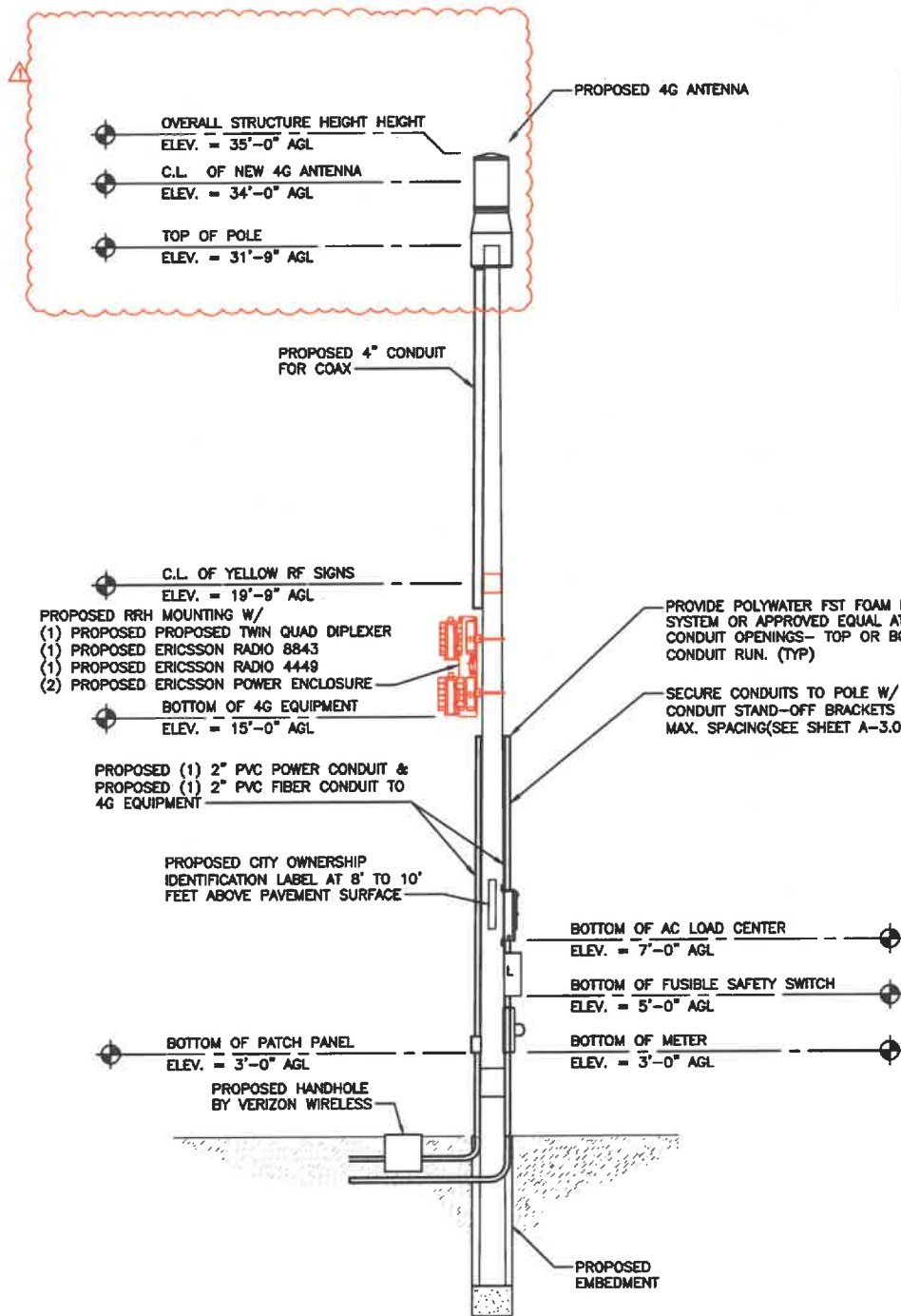
706079

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13341 OLIVE BLVD
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63017

SHEET DESCRIPTION: SHEET #:

SITE PLAN

A-1.0



YELLOW RF WARNING SIGN

CUBIC FOOTAGE SUMMARY

QTY	DESCRIPTION	DIMENSIONS (HxWxD)	CU. FEET
1	AMPHENOL 2C2UT360X06F00#0	24"x14.6"ø	2.961
1	AMPHENOL CWT-MKS-BASE	24"x17.19"ø	4.104
1	ERICSSON RRH BRKT	42.6"x13.5"x18"	5.599
1	ERICSSON RADIO 8843	18"x13.2"x11.3"	1.554
1	ERICSSON RADIO 4449	18"x13.2"x9.4"	1.293
2	ERICSSON POWER ENCLOSURE	13.9"x4"x11.8"	(2)0.38
1	TWIN QUAD DIPLEXER	8.3"x3"x4.2"	0.061
1	AC DISCONNECT	21.65"x10.36"x4.38"	0.569

STRUCTURE INFORMATION IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. STRUCTURAL INTEGRITY OF SUPPORTING STRUCTURE, ANTENNA MOUNTS, AND FOUNDATION SHALL BE VERIFIED AS ACCEPTABLE BY ENGINEER CERTIFIED STRUCTURAL ANALYSIS, UTILIZING THE LOADING REPRESENTED WITHIN THESE DRAWINGS PRIOR TO THE EXECUTION OF EQUIPMENT CHANGES CONTAINED IN THESE DRAWINGS. CONTRACTOR SHALL OBTAIN ALL STRUCTURAL REPORTS AND FOLLOW ALL RECOMMENDATIONS.

EQUIPMENT NOTICE:
ALL EQUIPMENT MOUNTED ON PROPOSED POWER POLE SHALL MATCH EXISTING POLE FINISH.

NOTE:
PROVIDE 2" CONDUIT FROM VERIZON WIRELESS HANDHOLE TO POLE

STAMP: 9/28/2022



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STATE OF MISSOURI
STATE CERTIFICATE OF AUTHORIZATION # EF-2791
ENGINEER: KEVIN VANMAELE PE-021561 CIVIL
REJ. ROBERT E. JENSEN PE-028974 CIVIL
CG. CHRISTOPHER GUANNOTTI PE-202008653 CIVIL
SDK. SHELTON D. WESLING PE-27323 ELECTRICAL
TMS. TERRANCE M. SUPER PE-18521 ELECTRICAL

PLANS PREPARED FOR:



PLANS PREPARED BY:

7171 West 95th Street, Suite 600
Overland Park, Kansas 66212
Phone: 913-438-7700
Fax: 913-438-7777

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SUBMITTALS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW	02/22/22	CJO	A
REISSUED FOR REVIEW	06/14/22	CJO	B
REISSUED FOR REVIEW	06/24/22	CJO	C
ISSUED FOR CONSTRUCTION	07/19/22	CZW	0
FIXED ELEVATIONS	09/28/22	ABT	1

SITE NAME:

STLC CHF FS 04SC

POLE NUMBER: SITE NUMBER:

TBD

706079

SITE ADDRESS:
13341 OLIVE BLVD
CHESTERFIELD, MISSOURI
63017

SHEET DESCRIPTION: SHEET #:

POLE ELEVATIONS

A-2.0

PROPOSED POLE & EQUIPMENT ELEVATION

ANTENNA SUMMARY

700	850	1900	AW5	AW53	Make	Model	Centerline	Tip Height	Azimuth	RET	dx(R)	Inst. Type	Quantity	Item ID
LTE	5G	LTE	LTE	LTE	AMPHENOL	2C2UT850116FX05C T00-2100-4-45A-Y1	37	38	0104	False	False	PHYSICAL	1	

EQUIPMENT SUMMARY

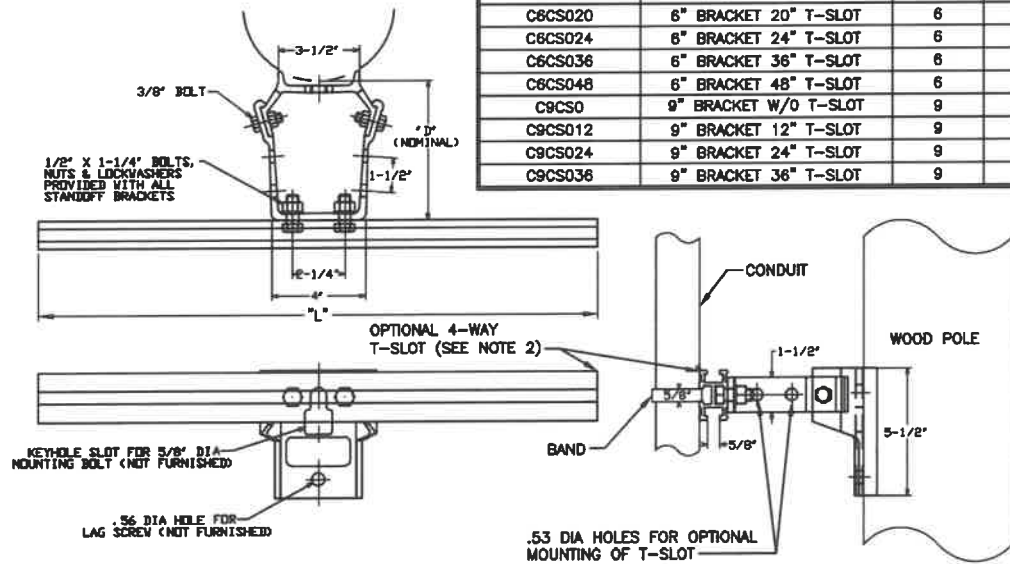
Equipment Type	Location	700	850	1900	AW5	AW53	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
Carrier Cabinet	Tower						1/2" case	1/2" case	40	1/2"	PHYSICAL	8	
RRU	Tower	LTE	LTE				Ericsson	4488			PHYSICAL	1	KRCH01708/1
RRU	Tower			LTE	LTE	LTE	Ericsson	88-12			PHYSICAL	1	KRCH01702/2
Diplexer	Tower						RALUS	DBC-025R-V1-1			PHYSICAL	1	

ANTENNA KEY & EQUIPMENT SUMMARY

NOTES:

- ALL BRACKET MATERIAL IS ALUMINUM. BOLTS, NUTS AND WASHERS ARE GALVANIZED STEEL.
- BRACKET AVAILABLE WITH NO T-SLOT OR WITH STANDARD LENGTH 12, 24, 36 INCH 4-WAY T-SLOT.

CAT. NO.	DESCRIPTION	"D"	"L"
C6CS0	6" BRACKET W/O T-SLOT	6	-
C6CS06	6" BRACKET 6" T-SLOT	6	6
C6CS08	6" BRACKET 8" T-SLOT	6	8
C6CS012	6" BRACKET 12" T-SLOT	6	12
C6CS018	6" BRACKET 18" T-SLOT	6	18
C6CS020	6" BRACKET 20" T-SLOT	6	20
C6CS024	6" BRACKET 24" T-SLOT	6	24
C6CS036	6" BRACKET 36" T-SLOT	6	36
C6CS048	6" BRACKET 48" T-SLOT	6	48
C9CS0	9" BRACKET W/O T-SLOT	9	-
C9CS012	9" BRACKET 12" T-SLOT	9	12
C9CS024	9" BRACKET 24" T-SLOT	9	24
C9CS036	9" BRACKET 36" T-SLOT	9	36



STANDOFF DETAIL

SERVICE INFO

4003172	Sector Azimuth Cut / Slope B ID Antenna Model Antenna Make Antenna Connector Mechanical Down Tilt(Deg.) Electrical Down Tilt Tip Height Regulatory Power DL/AMFCN Channel Bandwidth(MHz) Total ERP (W) TMA Make TMA Model RRU Make RRU Model Number of Tx, Rx Lines Position Transmitter Id Source	64 157.12 SC2UT850116FX05C-FS-0-2100 4-45A-Y1 AMPHENOL 37 38 0104 False False PHYSICAL 1 1000000 4488 Ericsson 88-12 RALUS DBC-025R-V1-1	6000
700 850 LTE	Sector Azimuth Cut / Slope B ID Antenna Model Antenna Make Antenna Connector Mechanical Down Tilt(Deg.) Electrical Down Tilt Tip Height Regulatory Power DL/AMFCN Channel Bandwidth(MHz) Total ERP (W) TMA Make TMA Model RRU Make RRU Model Number of Tx, Rx Lines Position Transmitter Id Source	64 157.12 SC2UT850116FX05C-FS-0-2100 4-45A-Y1 AMPHENOL 37 38 0104 False False PHYSICAL 8 1000000 4488 Ericsson 88-12 RALUS DBC-025R-V1-1	6000
850 1900 LTE	Sector Azimuth Cut / Slope B ID Antenna Model Antenna Make Antenna Connector Mechanical Down Tilt(Deg.) Electrical Down Tilt Tip Height Regulatory Power DL/AMFCN Channel Bandwidth(MHz) Total ERP (W) TMA Make TMA Model RRU Make RRU Model Number of Tx, Rx Lines Position Transmitter Id Source	64 157.12 SC2UT850116FX05C-FS-0-2100 4-45A-Y1 AMPHENOL 37 38 0104 False False PHYSICAL 1 1000000 4488 Ericsson 88-12 RALUS DBC-025R-V1-1	6000
850 1900 LTE	Sector Azimuth Cut / Slope B ID Antenna Model Antenna Make Antenna Connector Mechanical Down Tilt(Deg.) Electrical Down Tilt Tip Height Regulatory Power DL/AMFCN Channel Bandwidth(MHz) Total ERP (W) TMA Make TMA Model RRU Make RRU Model Number of Tx, Rx Lines Position Transmitter Id Source	64 157.12 SC2UT850116FX05C-FS-0-2100 4-45A-Y1 AMPHENOL 37 38 0104 False False PHYSICAL 8 1000000 4488 Ericsson 88-12 RALUS DBC-025R-V1-1	6000
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SERVICE INFO

STAMP: 9/28/2022



ENGINEERING LICENSE:
STATE OF MISSOURI
STATE CERTIFICATE OF AUTHORIZATION # EF-2791
ENGINEER: PER. DISCIPLINE:
KMY KEVIN M VANMAALE PE-021561 CIVIL
REJ ROBERT E. JENSEN PE-028874 CIVIL
CG CHRISTOPHER GUANNOTTI PE-2020036853 CIVIL
SDK SHELTON D. KEISLING PE-27323 ELECTRICAL
TMS TERRANCE M. SUPER PE-16621 ELECTRICAL

PLANS PREPARED FOR:



PLANS PREPARED BY:



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FIXED ELEVATIONS		09/28/22	ABT	1

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STLC CHF FS 04SC

POLE NUMBER:

TBD

SITE NUMBER:

706079

SITE ADDRESS:

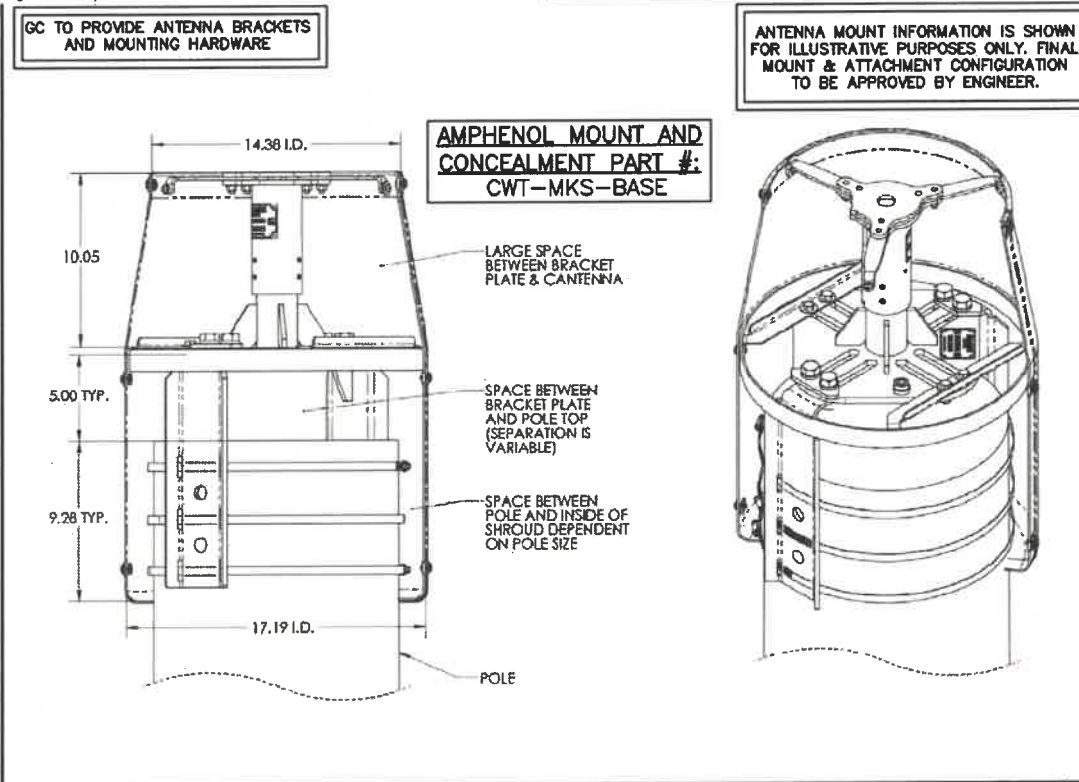
13341 OLIVE BLVD
CHESTERFIELD, MISSOURI
63017

SHEET DESCRIPTION:

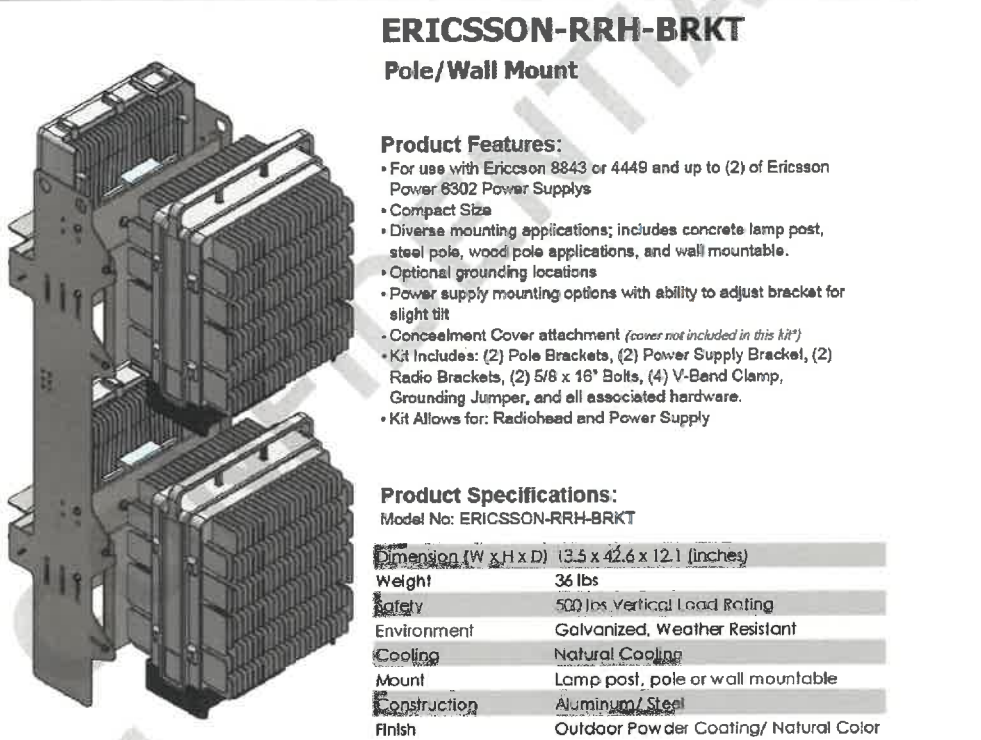
EQUIPMENT
DETAILS (1 OF 2)

SHEET #:

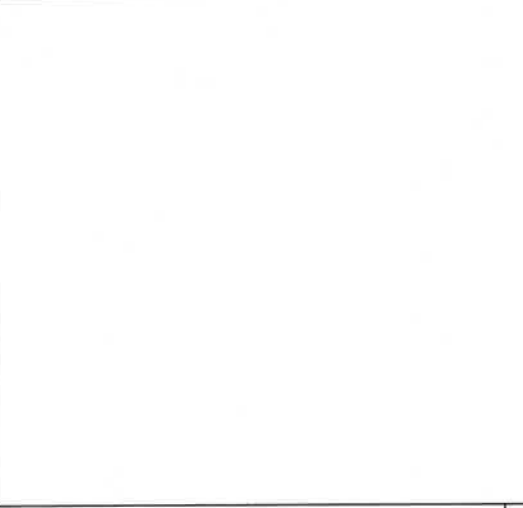
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OMNI ANTENNA MOUNTING KIT 2

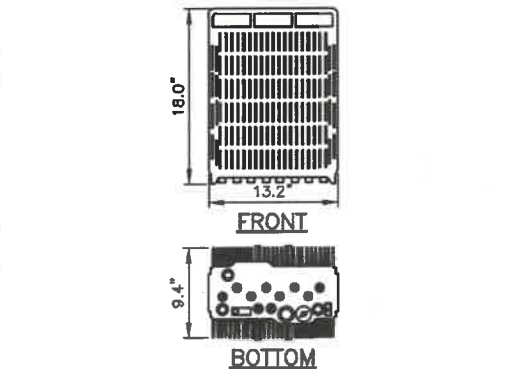


4G EQUIPMENT MOUNTING 6



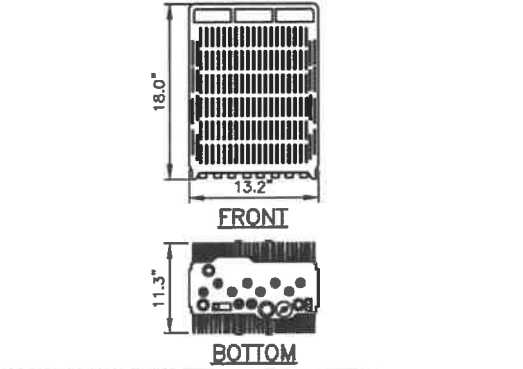
PTS91536 AC DISCONNECT SWITCH

DETAIL NOT USED 4 AC DISCONNECT SWITCH DETAIL 1



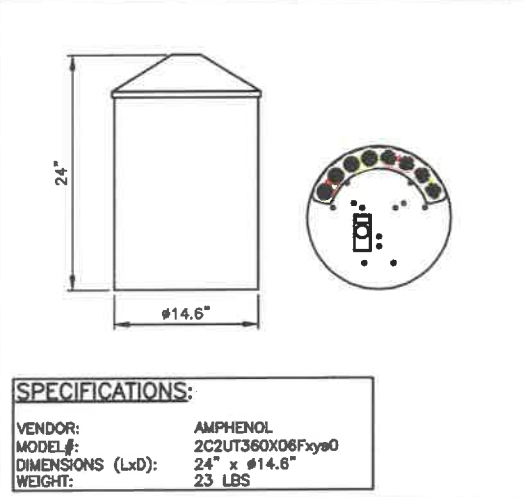
SPECIFICATIONS:
VENDOR: ERICSSON
MODEL#: 4449
DIMENSIONS (HxWxD): 18.0" x 13.2" x 9.4"
WEIGHT: 70 LBS

ERICSSON 4449 RRU DETAIL 5



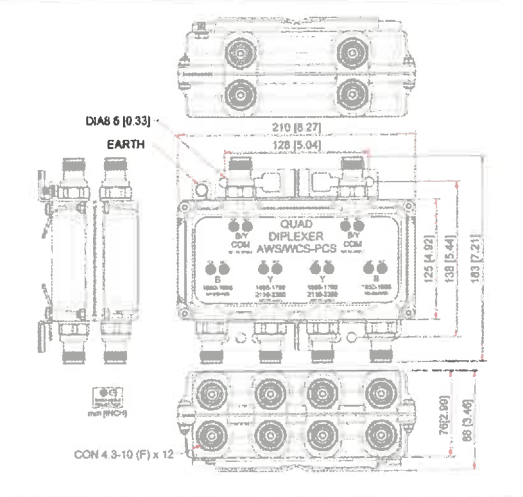
SPECIFICATIONS:
VENDOR: ERICSSON
MODEL#: 8843
DIMENSIONS (HxWxD): 18.0" x 13.2" x 11.3"
WEIGHT: 75 LBS

ERICSSON 8843 RRU DETAIL 2



SPECIFICATIONS:
VENDOR: AMPHENOL
MODEL#: 2C2UT380X06Fxye0
DIMENSIONS (LxD): 24" x 14.6"
WEIGHT: 23 LBS

4G OMNI ANTENNA DETAIL 6



DBC0129F1V1-1 QUAD DIPLEXER 3

STAMP: 9/28/2022

DocuSign
Kevin VanMaele

ENGINEERING LICENSE:

STATE OF MISSOURI
STATE CERTIFICATE OF AUTHORIZATION # EF-2791

ENGINEER	PE#	DISCIPLINE
KM V KEVIN M VANMAELE	PE-021561	CIVIL
RF J ROBERT E JENSEN	PE-028974	CIVIL
CG CHRISTOPHER GIANNOTTI	PE-2020038663	CIVIL
SD K SHELTON D KEISLING	PE-27323	ELECTRICAL
TMS TERRANCE M SUPER	PE-18521	ELECTRICAL

PLANS PREPARED FOR:

PLANS PREPARED BY:

7171 West 95th Street, Suite 600
Overland Park, Kansas 66212
Phone: 913-438-7700
Fax: 913-438-7777

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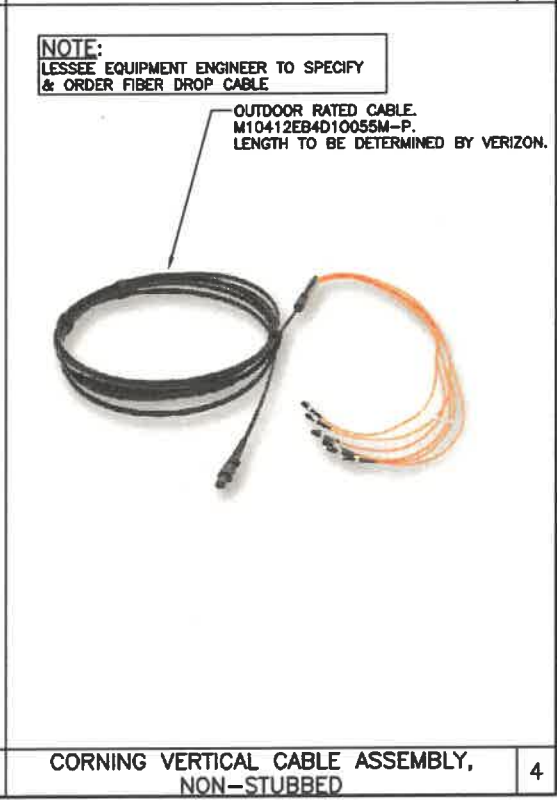
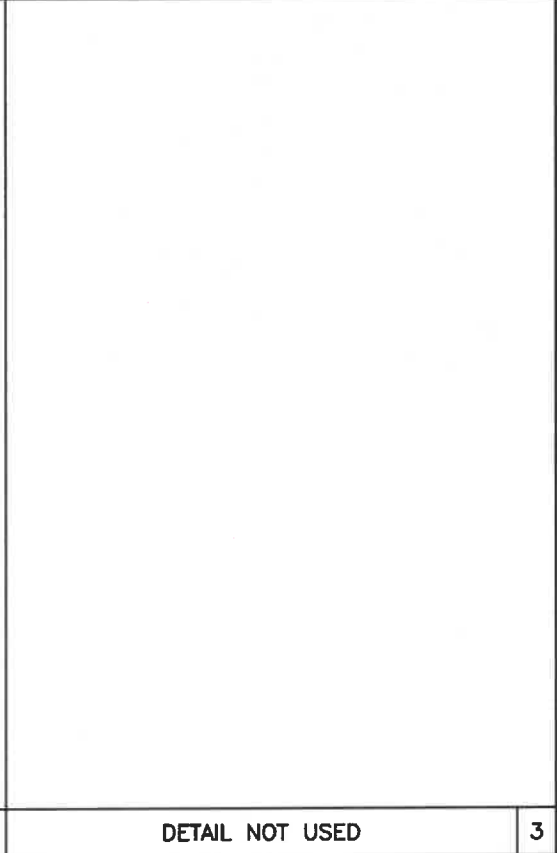
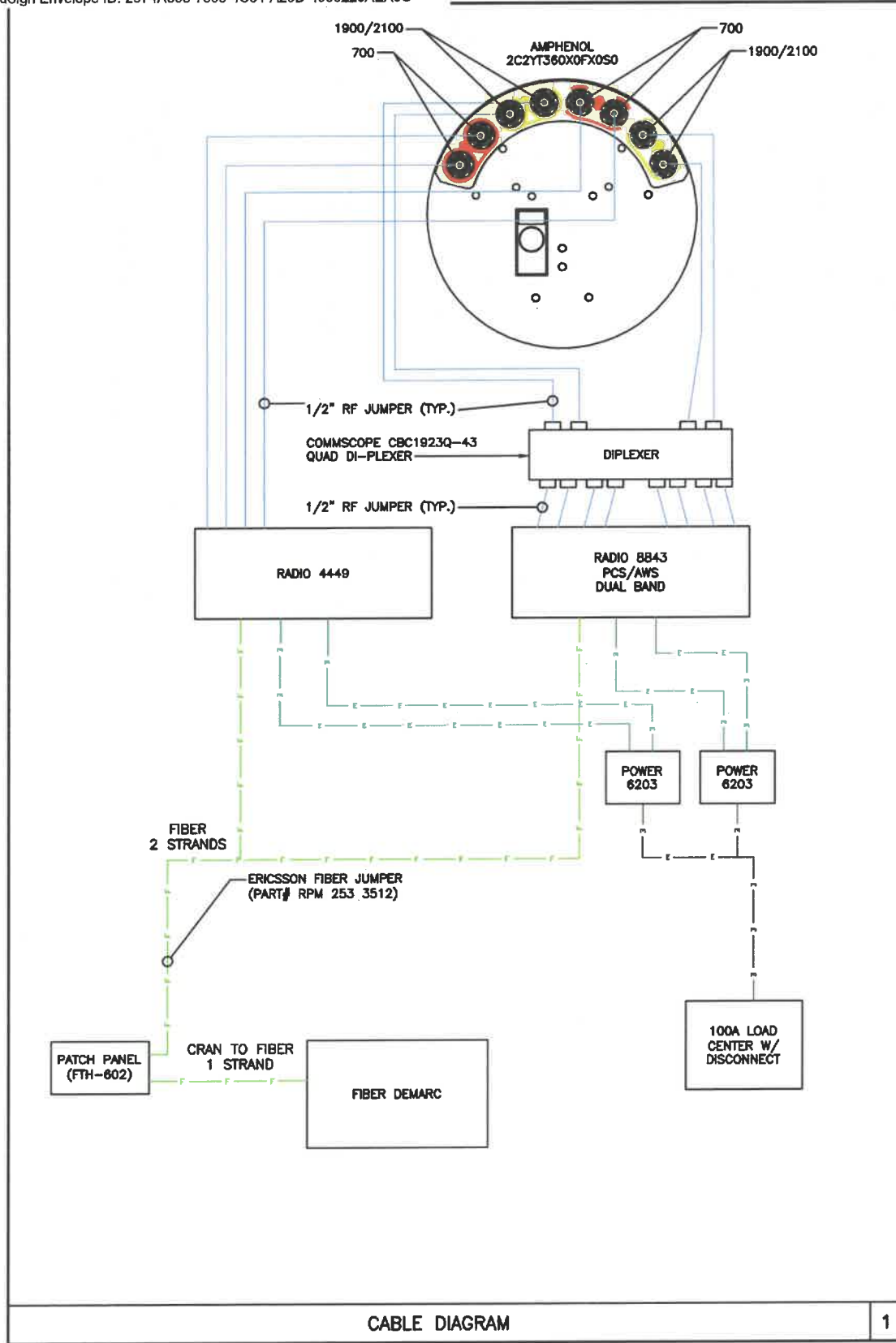
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FIXED ELEVATIONS		09/28/22	ABT	1

SITE NAME:
STLC CHF FS 04SC

POLE NUMBER: TBD
SITE NUMBER: 706079

SITE ADDRESS:
13341 OLIVE BLVD
CHESTERFIELD, MISSOURI
63017

SHEET DESCRIPTION: EQUIPMENT DETAILS (2 OF 2)
SHEET #: A-3.1



STAMP: 9/28/2022

DocuSign
Kevin VanMaele

ENGINEERING LICENSE:
STATE OF MISSOURI
STATE CERTIFICATE OF AUTHORIZATION # EF-2791

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KMV KEVIN M. VANMAELE	PE-021561	CIVIL
REJ ROBERT E. JENSEN	PE-028974	CIVIL
CG CHRISTOPHER GIANNOTTI	PE-2020038653	CIVIL
SDK SHELTON D. KEISLING	PE-27323	ELECTRICAL
TMS TERRANCE M. SUPER	PE-19521	ELECTRICAL

PLANS PREPARED FOR:
verizon

PLANS PREPARED BY:
SSC
7171 West 95th Street, Suite 600
Overland Park, Kansas 66212
Phone: 913-438-7700
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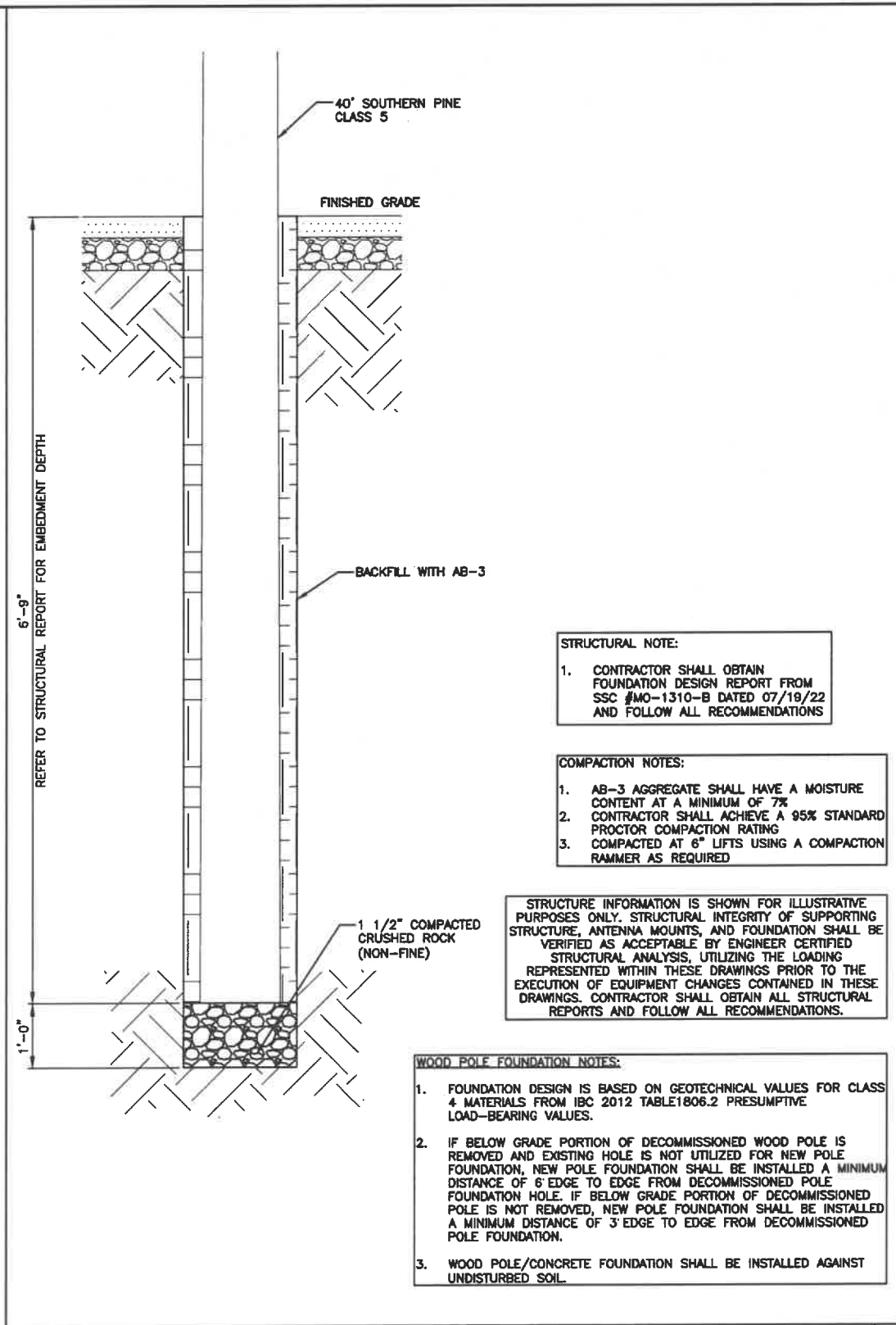
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STLC CHF FS 04SC

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CHESTERFIELD, MISSOURI
63017

SHEET DESCRIPTION: CABLE DIAGRAM & DETAILS **SHEET #:** A-4.0



STRUCTURAL NOTE:

1. CONTRACTOR SHALL OBTAIN FOUNDATION DESIGN REPORT FROM SSC #MO-1310-B DATED 07/19/22 AND FOLLOW ALL RECOMMENDATIONS

COMPACTION NOTES:

1. AB-3 AGGREGATE SHALL HAVE A MOISTURE CONTENT AT A MINIMUM OF 7%
2. CONTRACTOR SHALL ACHIEVE A 95% STANDARD PROCTOR COMPACTION RATING
3. COMPACTED AT 6" LIFTS USING A COMPACTION RAMMER AS REQUIRED

STRUCTURE INFORMATION IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. STRUCTURAL INTEGRITY OF SUPPORTING STRUCTURE, ANTENNA MOUNTS, AND FOUNDATION SHALL BE VERIFIED AS ACCEPTABLE BY ENGINEER CERTIFIED STRUCTURAL ANALYSIS, UTILIZING THE LOADING REPRESENTED WITHIN THESE DRAWINGS PRIOR TO THE EXECUTION OF EQUIPMENT CHANGES CONTAINED IN THESE DRAWINGS. CONTRACTOR SHALL OBTAIN ALL STRUCTURAL REPORTS AND FOLLOW ALL RECOMMENDATIONS.

WOOD POLE FOUNDATION NOTES:

1. FOUNDATION DESIGN IS BASED ON GEOTECHNICAL VALUES FOR CLASS 4 MATERIALS FROM IBC 2012 TABLE 1806.2 PRESUMPTIVE LOAD-BEARING VALUES.
2. IF BELOW GRADE PORTION OF DECOMMISSIONED WOOD POLE IS REMOVED AND EXISTING HOLE IS NOT UTILIZED FOR NEW POLE FOUNDATION, NEW POLE FOUNDATION SHALL BE INSTALLED A MINIMUM DISTANCE OF 6' EDGE TO EDGE FROM DECOMMISSIONED POLE FOUNDATION HOLE. IF BELOW GRADE PORTION OF DECOMMISSIONED POLE IS NOT REMOVED, NEW POLE FOUNDATION SHALL BE INSTALLED A MINIMUM DISTANCE OF 3' EDGE TO EDGE FROM DECOMMISSIONED POLE FOUNDATION.
3. WOOD POLE/CONCRETE FOUNDATION SHALL BE INSTALLED AGAINST UNDISTURBED SOIL.

STAMP: 9/28/2022



DocuSign
Kevin Vanmaele

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STATE CERTIFICATE OF AUTHORIZATION # EF-2791

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KMV KEVIN M VANMAELE	PE-021561	CIVIL
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CG CHRISTOPHER GIANNOTTI	PE-2020038653	CIVIL
SDK SHELTON D. KEISLING	PE-27323	ELECTRICAL
TMS TERRANCE M. SUPER	PE-18521	ELECTRICAL

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CHESTERFIELD, MISSOURI
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SHEET DESCRIPTION: SHEET #:

FOUNDATION DETAILS

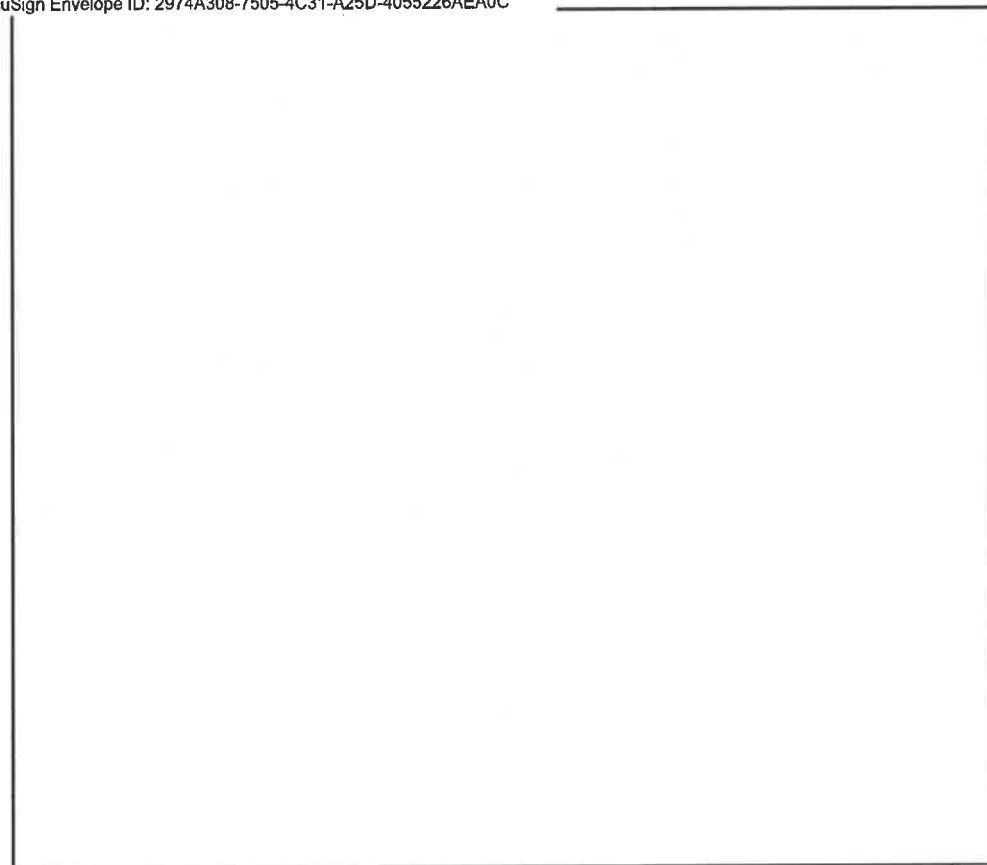
A-5.0

DETAIL NOT USED

2

EMBEDMENT DETAILS & NOTES

1



SPECIFICATIONS	
BRAND NAME	MILLBANK
HEIGHT	19 IN.
LENGTH	4.844 IN.
TYPE	RINGLESS
APPLICATION	METER SOCKET
WIDTH	13"
STANDARD	UL LISTED; 3R
VOLTAGE RATING	600 VOLTS; A.C.
AMPERAGE RATING	200 CONTINUOUS AMPERE
PHASE	1 PHASE
FREQUENCY RATING	60 HERTZ
SIZE	4.844Lx13Wx19H
# OF MAIN BREAKERS	0
MAIN BREAKER SIZE	NO MAIN BREAKER
CABLE ENTRY	OH OR UG
TERMINAL	LAY IN
INSULATION	GLASS POLYESTER
MOUNTING	SURFACE MOUNT
MATERIAL	G90 GALV. STEEL W/ POWDER COAT FINISH
# OF JAWS	5 TERMINAL
BYPASS PROVISION	LEVER BYPASS
# OF METERED POS.	1 POSITION
EQUIPMENT GROUND	GROUNDING LUG
HUB/CLOSING PLATE	LARGE HUB OPENING ADAPTED TO SMALL CLOSING PLATE
LINE SIDE WIRE RANGE	6 AWG - 350 KCMIL
# OF RECEPTACLES	0

STAMP: 9/28/2022



DocuSign
Shelton Keisling

ENGINEERING LICENSE:
STATE OF MISSOURI
STATE CERTIFICATE OF AUTHORIZATION # EF-2791

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KMV KEVIN M VANMAELE	PE-021551	CIVIL
RSJ ROBERT E. JENSEN	PE-028914	CIVIL
CB CHRISTOPHER GIANNOTTI	PE-2020038653	CIVIL
SDK SHELTON D. KEISLING	PE-27323	ELECTRICAL
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PLANS PREPARED FOR:



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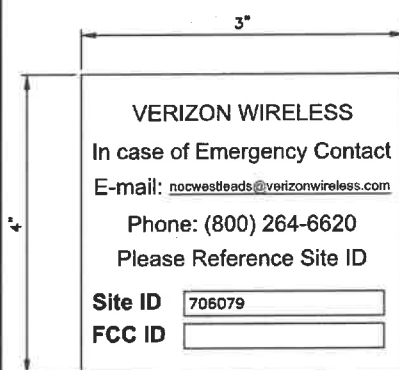
DETAIL NOT USED

3

MILLBANK U9551-RXL METER SPECS

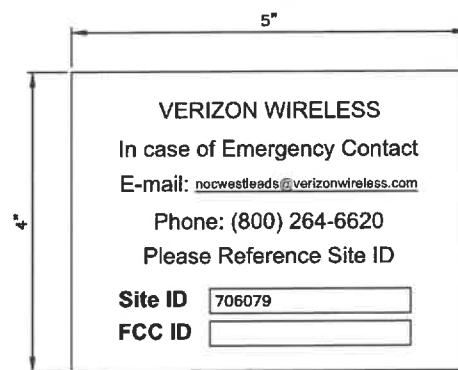
1

EMERGENCY LABEL ON POLE



NOTE:
TO BE INSTALLED AT BASE OF LIGHT POLE ON HANDHOLE COVER.

EMERGENCY LABEL ON METER



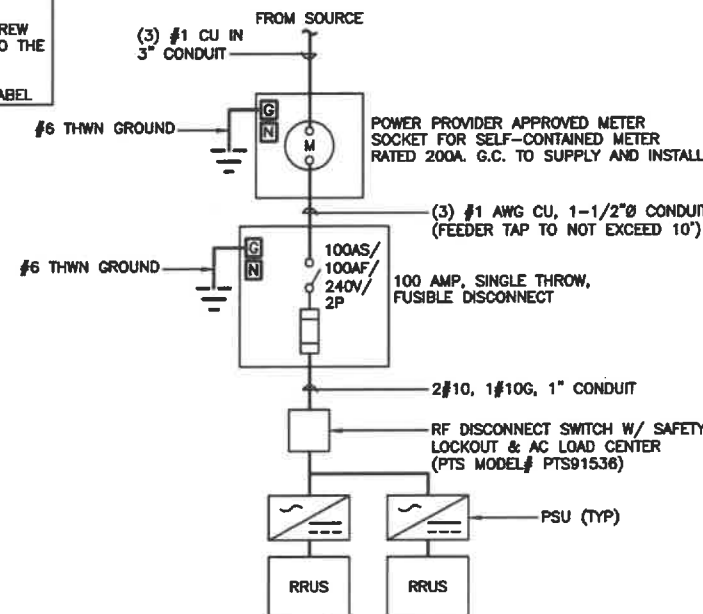
NOTE:
TO BE INSTALLED ON METER (INSTALL BELOW MAIN CIRCUIT BREAKER ACCESS PANEL)

OWNER/OPERATOR NOTE:
EMERGENCY CONTACT LABEL AFFIXED AS NOTED ABOVE BY USING TZeS241 LABELING TAPE OR EQUIVALENT BLACK ON WHITE LABELING TAPE OF AT LEAST 18mm WIDTH WITH EXTRA-STRENGTH ADHESIVE. USE ANY COMPATIBLE P-TOUCH LABEL MAKER. TEXT SHOULD BE PRINTED IN ALL CAPS WITH A MINIMUM HEIGHT OF 1/2".

POLE OWNER SIGN DETAIL

4

- NOTE:**
1. INSTALL THE NEUTRAL BINDING SCREW TO CONNECT THE NEUTRAL BAR TO THE ENCLOSURE.
 2. APPLY TO SERVICE DISCONNECT LABEL.



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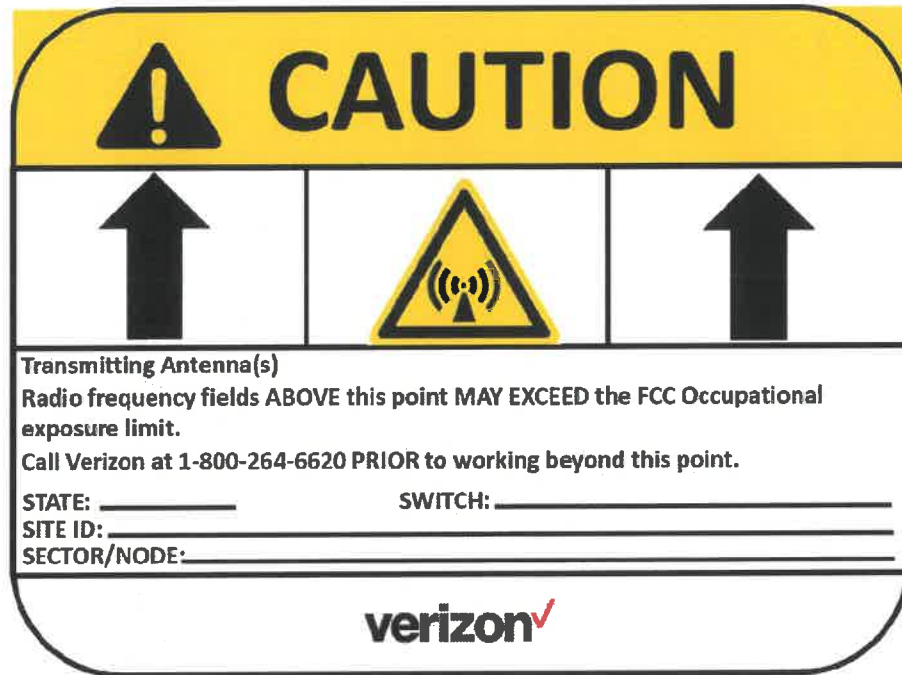
SITE ADDRESS:
13341 OLIVE BLVD
CHESTERFIELD, MISSOURI
63017

SHEET DESCRIPTION: ELECTRICAL DETAILS (1 OF 2)
SHEET #: E-1.0

CIRCUIT ONE-LINE DIAGRAM

2

NOTE:
RF NOTICE SIGN FOR MINI MACROS (>40
WATT OUTPUT POWER FROM ANTENNAS)

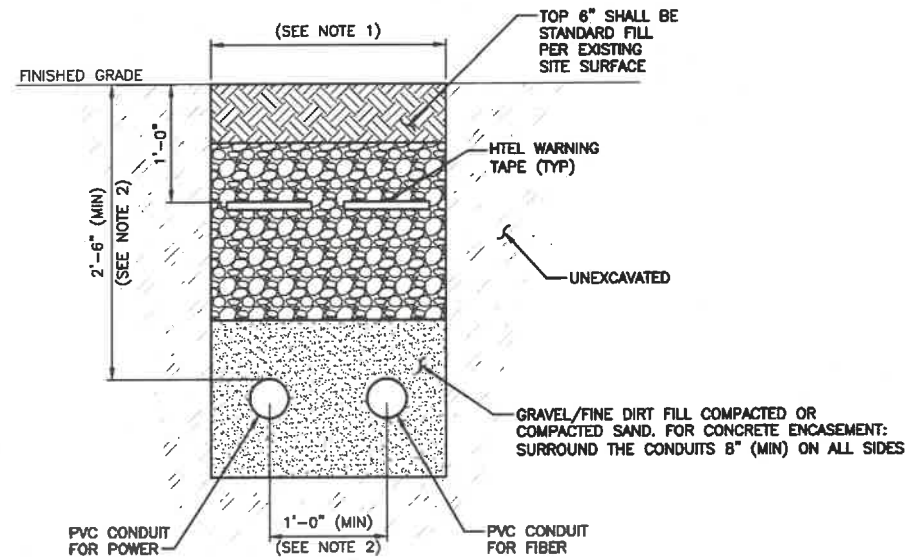


ANTENNA SIGNAGE:
ON WOOD POLES - SIGN ON ALUMINUM WITH SS SCREW TO THE POLE
ON METAL POLES - ADHESIVE VINYL OR PLACARD STRAPPED WITH SS TIES
ON CONCRETE / COMPOSITE - PLACARD STRAPPED WITH SS TIES
SIGN PLACEMENT:
AFFIX TO THE STRUCTURE 11-12' BELOW THE COMMERCIAL RF ANTENNA(S)

RF NOTICE SIGN DETAIL

NOTES:

1. WIDTH OF TRENCH AS REQUIRED BY UTILITY COMPANY OR PER QUANTITY OF CONDUITS AND LOCAL CODE REQUIREMENTS
2. VERIFY DISTANCE PER LOCAL CODE, UTILITY COMPANY, AND CLIENT REQUIREMENTS



CONDUIT TRENCH DETAIL

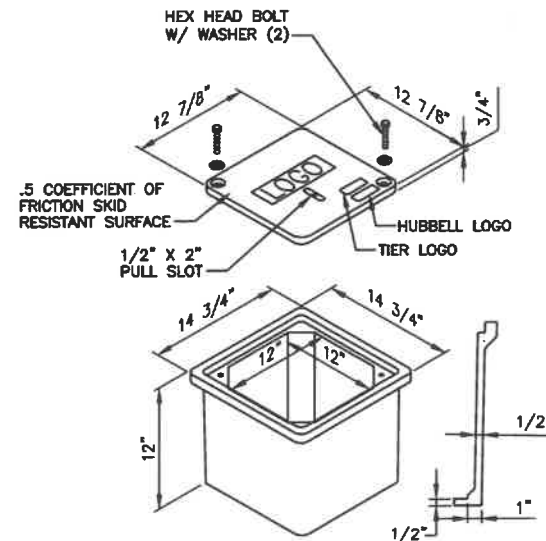
ORDERING INFORMATION

MANUFACTURER: HUBBELL POWER SYSTEMS

PART#: COVER - PC1212HA00**
BOX - PC1212BA12

DESCRIPTION: 12"x12"x12" TIER 12 PC STYLE POLYMER CONCRETE HANDHOLE

NOTE: G.C. MAY USE APPROVED EQUAL



FIBER HAND HOLE DETAIL

STAMP: 9/28/2022



ENGINEERING LICENSE:
STATE OF MISSOURI
STATE CERTIFICATE OF AUTHORIZATION # EF-2791

ENGINEER:	PE#:	DISCIPLINE:
KMV KEVIN M. VANMAELE	PE-021581	CIVIL
REJ ROBERT L. JENSEN	PE-028974	CIVIL
CSJ CHRISTOPHER GIANNOTTI	PE-000038653	CIVIL
SDK SHELTON D. KEISLING	PE-27323	ELECTRICAL
TMS TERRANCE M. SUPER	PE-18521	ELECTRICAL

PLANS PREPARED FOR:



PLANS PREPARED BY:



7171 West 95th Street, Suite 600
Overland Park, Kansas 66212
Phone: 913-438-7700
Fax: 913-438-7777

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SUBMITTALS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW	02/22/22	CJO	A
REISSUED FOR REVIEW	06/14/22	CJO	B
REISSUED FOR REVIEW	06/24/22	CJO	C
ISSUED FOR CONSTRUCTION	07/19/22	CZW	0
FIXED ELEVATIONS	09/28/22	ABT	1

SITE NAME:

STLC CHF FS 04SC

POLE NUMBER:

TBD

SITE NUMBER:

706079

SITE ADDRESS:

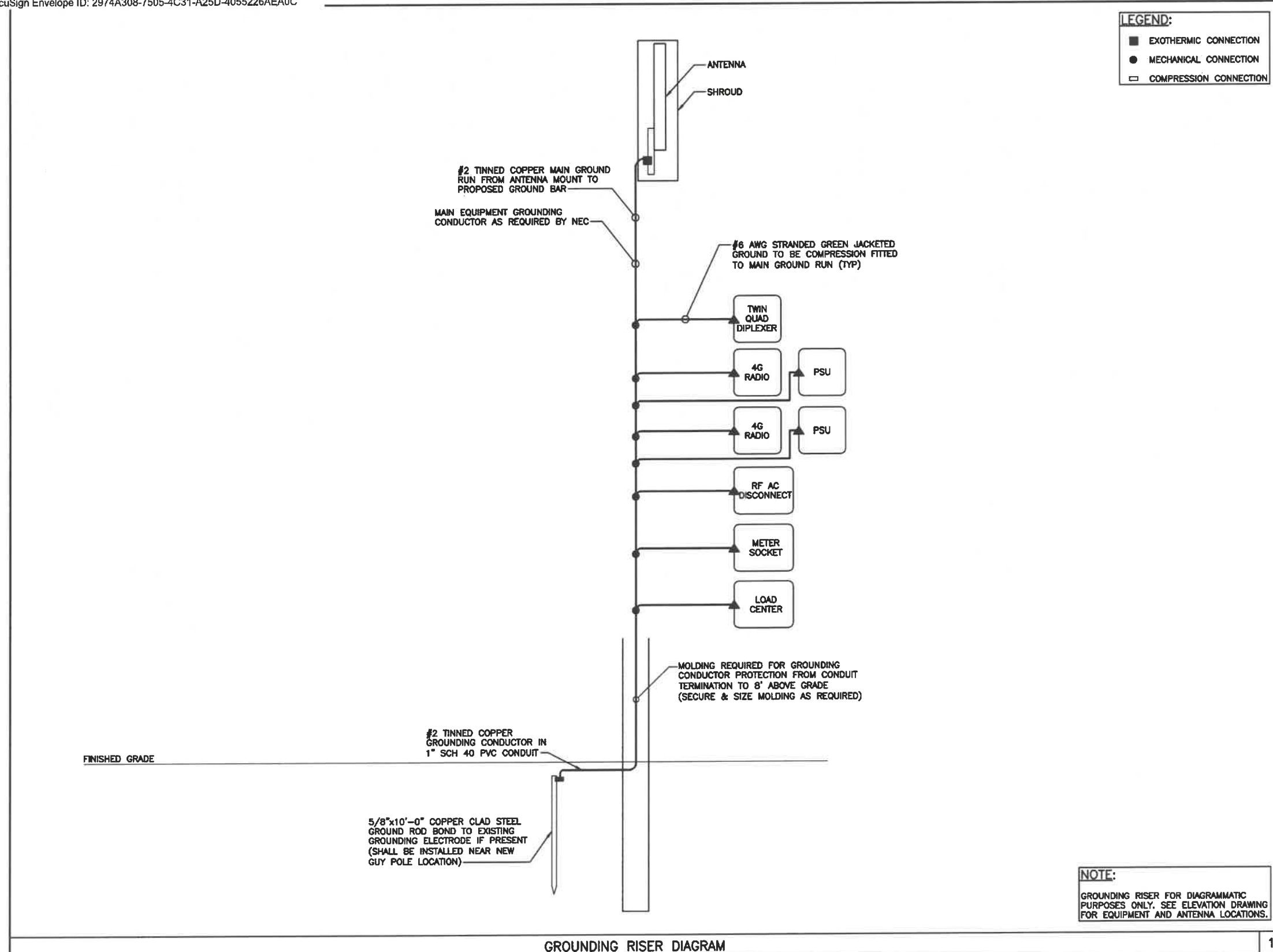
13341 OLIVE BLVD
CHESTERFIELD, MISSOURI
63017

SHEET DESCRIPTION:

ELECTRICAL
DETAILS
(2 OF 2)

SHEET #:

E-1.1



STAMP: 9/28/2022



ENGINEERING LICENSE:

STATE OF MISSOURI
STATE CERTIFICATE OF AUTHORIZATION # EF-2791

ENGINEER	PE#	DISCIPLINE
KMV KEVIN M. VANMAELE	PE-021561	CIVIL
REJ ROBERT E. JENSEN	PE-023974	CIVIL
CG CHRISTOPHER GIANNOTTI	PE-2020038653	CIVIL
SDK SHELTON D. KEISLING	PE-27323	ELECTRICAL
TMS TERRANCE M. SUPER	PE-18521	ELECTRICAL

PLANS PREPARED FOR:



PLANS PREPARED BY:



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ISSUED FOR CONSTRUCTION	07/19/22	CZW	0
FIXED ELEVATIONS	09/28/22	ABT	1

SITE NAME:
STLC CHF FS 04SC

POLE NUMBER: **TBD** SITE NUMBER: **706079**

SITE ADDRESS:
**13341 OLIVE BLVD
CHESTERFIELD, MISSOURI
63017**

SHEET DESCRIPTION: **GROUNDING RISER DIAGRAM** SHEET #: **G-1.0**