

Memorandum Department of Planning & Development Services

To: Planning and Public Works Committee

From: Jessica Henry, Senior Planner *jh*

Date: June 21, 2018

RE: FSP 54-2018 ExteNet Systems, Inc. (17359 Chesterfield Airport Road): A request for a new Facilities Siting Permit to install a new wireless telecommunications facility within the right-of-way located adjacent to 17359 Chesterfield Airport Road. (Ward 4)

<u>Summary</u>

ExteNet Systems, Inc. has submitted a Facilities Siting Permit (FSP) application to install a new wireless telecommunications facility within the right-of-way located adjacent to the Culver's restaurant at 17359 Chesterfield Airport Road. This right-of-way area is under St. Louis County's control, and the County has issued a Special Use Permit to the applicant authorizing installation of the facility.

The proposed installation consists of a standard wood utility pole that was purchased from and installed by Ameren. Equipment and antennas will be mounted on the pole. The pole is 32'6" in height.

Article 6 of the Unified Development Code was amended in early 2018 to comply with a new State law that severely limited the ability of Missouri municipalities to regulate wireless communication facilities. The proposed installation is compliant with the requirements of Article 6 of the Unified Development Code and State Law.

Attached to this report, please find an FSP application packet with information regarding the proposed installation. In accordance with Article 6 of the Unified Development Code, final approval of the installation must be granted by the City Council.

Attachments: FSP Application Packet



Externet systems, inc.

Chesterfield Telecommunications Facilities Siting Permit (FSP) Addendum

RECEIVED JUN 1 4 2018 City of Chesterfield Department of Public Services

a. The name, address and phone number of the person preparing the report;

Joseph Markus Site Acquisition Manager Black & Veatch 16305 Swingley Ridge Rd., Ste. 230 Chesterfield, MO 63017 636-536-5842 MarkusJ@bv.com

b. Each application shall include a copy of a lease, letter of authorization or other agreement from the property owner evidencing applicant's right to pursue the application;

St. Louis County Special Use Permit 19168

c. The postal address and tax map parcel number of the property;

This is a ROW on a St. Louis County Rd., so there is no address or parcel no. Adjacent property is: 17359 Chesterfield Airport Rd. A.P.N.: 17U330190

d. Size of the property stated both in square feet and lot line dimensions, and a survey showing the location of all lot lines;

Right-of-Way on North side of Chesterfield Airport Rd. is continuous and owned by St. Louis County. Survey of property is attached.

- e. The location and distance of the nearest residential structure as measured from the base of the proposed tower. See attached.
- f. An outboundary survey, prepared by a licensed professional Surveyor, licensed to perform surveying within the State of Missouri, with an original seal and signature affixed thereto;

Survey attached.

g. The location, size and height of all existing and proposed structures on the subject property;

This is a St. Louis County ROW. The only structures in the ROW are utility poles and road signs.

h. The type, locations and dimensions of all proposed and existing landscaping and fencing/screening requirements;

Installing a standard utility pole. No landscaping, fencing or screening is required.

 The size and centerline height location of all proposed and existing antenna on the wireless supporting structure including the number, type and model of the antenna(s) proposed with a copy of the specification sheet;

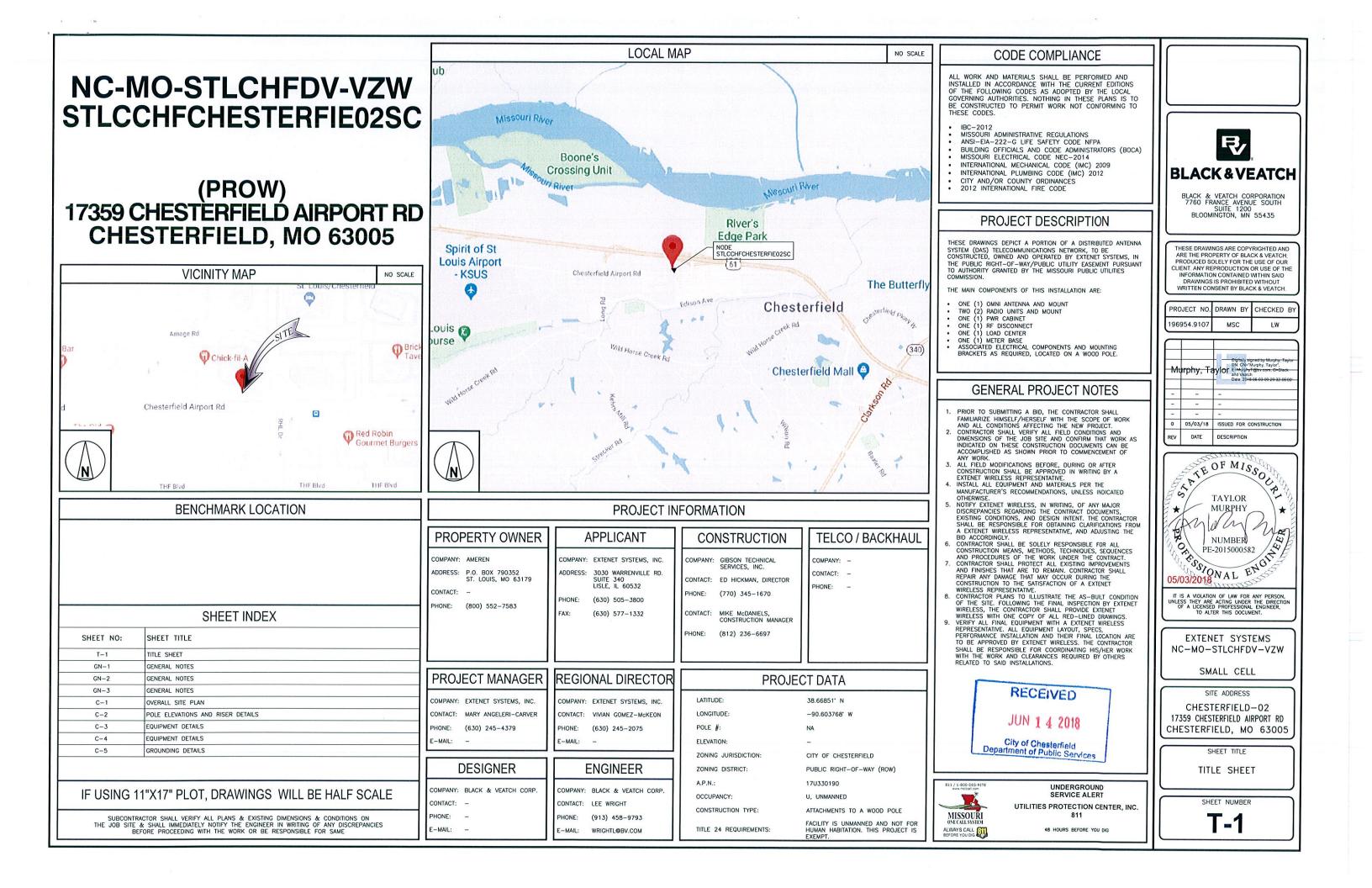
See attached drawings.

j. The make, model, type and manufacturer of the wireless support structure tower and design plan stating the wireless support structure's tower's capacity to accommodate multiple users;

This is a standard wood utility pole purchased from and installed by Ameren. It is capable of multiple users.

h. A site plan signed and sealed by a registered engineer describing the proposed wireless support structure and antenna(s) and all related fixtures, structures, appurtenances and apparatus, including height above pre-existing grade, materials, color and lighting compliant with this Article as applicable.

Site plan and drawings are attached.



EROSION AND SEDIMENT CONTROL NOTES

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

- ALL REQUIREMENTS OF THE CITY, COUNTY AND STATE "STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSTENT WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP), WATER QUALITY TECHNICAL REPORT (WQTR), AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
- 2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
- 3. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT 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 MEASURE, I.E. GRAVEL BAGS OR DIKES.
- 4. 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.
- 5. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
- 6. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
- 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 AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
- THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
- THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURE AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
- ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
- 12. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
- 13. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE A THE TEND OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
- 14. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING A ND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
- 15. THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IN ANY, ENGINEER OF WORK, OWNER/DEVELOPER THE RESIDENT ENGINEER? TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURE AND OTHER RELATED CONSTRUCTION ACTIVITIES.

SPECIAL NOTES

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 HE 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 INDEMNIFY AND HOLD EXTENET, REPRESENTATIVES, AND ENGINEERS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF THE WORK NOT THIS PROJECT.
- PRIOR TO THE BEGINNING OF ANY CONSTRUCTION AND THROUGHOUT THE COURSE OF CONSTRUCTION WORK, THE CONTRACTOR SHALL FULLY COMPLY WITH "MISSOURI OCCUPATIONAL SAFETY AND HEALTH" ACT OF 1973 INCLUDING ALL REVISIONS AND AMENDMENTS THERETO.
- 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.
- 4. 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 CONTRACTOR SHALL VERITY 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 OF ALL UTILITY OR AGENCY FACILITIES WITHIN THE LIMITS OF WORK, WHETHER THEY ARE SHOW ON THIS PLAN OR NOT.
- 5. THE CONTRACTOR SHALL NOTIFY THE CITY, COUNTY OR STATE ENGINEER INSPECTION DEPARTMENT, AT LEAST TWO DAYS BEFORE START OF ANY WORK REQUIRING THEIR INVOLVEMENT.
- 6. THE CITY, COUNTY OR STATE SHALL SPECIFY THE EXPIRATION PERIOD OF THE PERMIT FOR THIS CONSTRUCTION PROJECT.
- 7. THE MINIMUM COVER FOR ALL CONDUITS PLACED UNDERGROUND SHALL BE 36 INCHES TO THE FINISHED GRADE AT ALL TIMES.
- 8. THE CONTRACTOR SHALL TUNNEL ALL CURB AND GUTTER AND BORE ALL CONCRETE DRIVEWAY AND ALWAYS AT THE DIRECTION OF THE CITY, COUNTY OR STATE ENGINEER.
- ALL A.C. AND/OR CONCRETE PAVEMENT SHALL BE REPLACED AT THE DIRECTION OF THE CITY, COUNTY OR STATE ENGINEERS.
- ALL SHRUBS, PLANTS OR TREES THAT HAVE BEEN DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK, SHALL BE REPLACED AND/OR REPLACED SO AS TO RESTORE THE WORK SITE TO ITS ORIGINAL CONDITION.
- 11. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROCESSING OF ALL APPLICANT PERMIT FORMS ALONG WITH THE REQUIRED LIABILITY INSURANCE FORMS. CLEARLY DEMONSTRATING THAT EXTENET, THE CITY, COUNTY OR STATE IS ALSO INSURED WITH THE REQUIRED LIABILITY INSURANCE FOR THIS CONSTRUCTION PROJECT.
- VAULTS, PEDESTALS, CONDUITS AND OTHER TYPES OF SUBSTRUCTURE ARE EITHER SPECIFIED ON THIS PLAN OR WILL BE SPECIFIED BY THE CONSTRUCTION ENGINEER, IN WRITING, BEFORE INSTALLATION THEREOF.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES IN INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.

- CONTRACTOR SHALL MAKE EXPLORATION EXCAVATION AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISION TO PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
- 15. 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 EXITING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.

GENERAL NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS 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 PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE 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.
- IMPORTANT NOTICE: CALL MISSOURI ONE CALL SYSTEM 811/1-800-DIG-RITE, AT LEAST THREE DAY BEFORE YOU DIG.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING FO ALL EXISTING UTILITIES THAT CORSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN A 1' MINIMIUM VERTICAL CLEARANCE.
- CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
- 5. MANHOLES OR COVERS SHALL BE LABELED EXTENET.

R.O.W. GROUND CONSTRUCTION NOTES

- 1. 120/240 POWER REQUIRED FOR 3-WIRE SERVICE.
- 2. GC TO REMOVE/CLEAN ALL DEBRIS, NAILS, STAPLES, OR NON-USED VERTICALS OFF THE POLE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH MUNICIPAL, COUNTY, STATE, AND FEDERAL STANDARDS AND REGULATIONS.
- 4. CALL 811, 72 HOURS PRIOR TO EXCAVATING AT (800) 344-7483.
- 5. ALL LANDSCAPING TO BE RESTORED TO ORIGINAL CONDITION OR BETTER
- 6. ALL EQUIPMENT TO BE BONDED.
- 7. METERING CABINET REQUIRES 3' CLEARANCE AT DOOR OPENING.
- 8. CAULK CABINET BASE AT PAD.

STANDARD GROUNDING NOTES

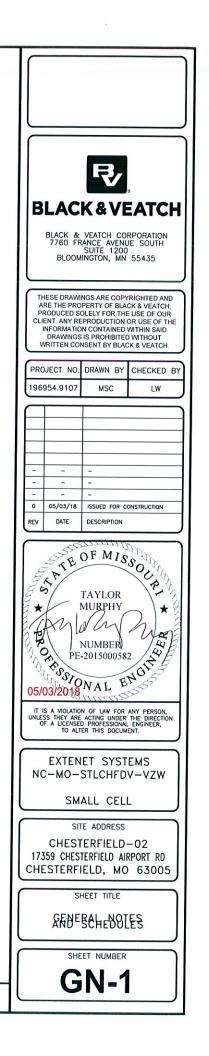
- 1. GROUND TESTED AT 5 OHMS OR LESS.
- 2. 5/8"X8' ROD. CAD WELD BELOW GRADE.
- 3. #6 GROUND AND BOND WIRE.
- 4. WOOD MOLDING, STAPLED EVERY 3' AND AT EACH END.
- 5. GROUNDS 3' FROM POLE
- 6. PLACE 3 #10GA WIRES FROM BREAKER TO METER BOX.

STANDARD CONDUIT NOTES

- 1. FOR UNDERGROUND USE SCHEDULE 40.
- 2. FOR RISERS USE SCHEDULE 80.
- PLACE 2" GALVANIZED STEEL CONDUIT FOR ANY CONDUIT UNDER 3", STUB UP 10' THEN CONVERT TO SCHEDULE 80.
- 4. CONVERT 4" CARRIER CONDUIT TO 3" AT BASE OF POLE.
- 5. 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.
- 6. ALL CONDUIT WILL BE MAN DRILLED AND EQUIPPED WITH 3/8" PULL ROPE.

STANDARD TRENCHING NOTES

- 1. MAINTAIN 40" MINIMUM COVER FOR ELECTRICAL CONDUIT.
- 2. MAINTAIN 30" MINIMUM COVER FOR COMMUNICATIONS CONDUIT.
- 3. SAND SHADING MINIMUM 1" UNDER CONDUITS, AND 6" COVERING ON TOP REQUIRED.
- ALL ELECTRICAL SERVICE CONDUITS FROM POWER COMPANY, WHETHER FROM POLES, TRANSFORMERS, OR OTHER LOCATIONS; WILL BE SLURRY BACKFILLED.
- 5. IN STREET SLURRY TO GRADE AND MILL DOWN 1-1/2" FOR AC CAP.
- 6. IN DIRT SLURRY 18" FROM GRADE, AND FILL WITH 95% COMPACTION NATIVE SOIL FOR BALANCE.
- PLACE WARNING TAPE IN TRENCH 12" ABOVE ALL CONDUITS AND #18 WARNING TAPE ABOVE GROUND RING.



	ENERAL CONSTRUCTION NOTES FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:	26. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.	INTO AN INTER DUCT AND A PARTITION BARRIER SHALL BE INSTALLED I THE INTER DUCT IN ORDER TO SEGREGATE CABLE TYPES. OPTIC FIBER CABLE RESTRAINTS EVERY (60) SIXTY FEET AND SECURELY FASTENED T
	A. CONTRACTOR: (CONSTRUCTION) B. OWNER – SPRINT	27. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE	(NEC) ARTICLE 770 RULES SHALL APPLY. 2. THE TYPE TC-ER CABLES SHALL BE INSTALLED INTO CONDUITS, CHANN
2.	ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND SPRINT PROJECT SPECIFICATIONS.	FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION. 28. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM	SHALL BE SECURED AT INTERVALS NOT EXCEEDING (6) SIX FEET. AN E ARE NOT SUBJECT TO PHYSICAL DAMAGE, CABLES SHALL BE PERMITTED CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY WHICH ARE SERVIN A DISTANCE (6) SIX FEET SHALL NOT BE EXCEEDD WITHOUT CONTINUC
3.	GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH	THE SITE AND DISPOSED OF IN A LAWFUL MANNER. 29. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND	ARTICLES 336 AND 392 RULES SHALL APPLY. 3. WHEN INSTALLING OPTIC FIBER TRUNK CABLES OR TYPE TC-ER CABLES
	CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.	PRIOR TO PAYMENT. 30. CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON	ARTICLE 300 RULES SHALL APPLY. <u>COAXIAL CABLE NOTES</u>
4.	ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY RECARDING THE PERFORMANCE OF WORK.	COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT. 31. CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.	 TYPES AND SIZES OF THE ANTENNA CABLE ARE BASED ON ESTIMATED CONTRACTOR SHALL VERIFY ACTUAL LENGTH BASED ON CONSTRUCTION MANAGER IF ACTUAL LENGTHS EXCEED ESTIMATED LENGTHS.
5.	ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.	32. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).	2. CONTRACTOR SHALL VERIFY THE DOWN-TILT OF EACH ANTENNA WITH A
6.	UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.	33. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY TECHNICIANS.	3. CONTRACTOR SHALL CONFIRM COAX COLOR CODING PRIOR TO CONSTRU
7.	PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING	34. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.	 TYPES AND SIZES OF THE ANTENNA CABLE ARE BASED ON ESTIMATED I CONTRACTOR SHALL VERIFY ACTUAL LENGTH BASED ON CONSTRUCTION MANAGER IF ACTUAL LENGTHS EXCEED ESTIMATED LENGTHS.
	DIFERMISE NOTED. DIMENSIONS SHOWN ARE TO HINSH SURFACES UNLESS UNTERMISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH	35. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION OF SPRINT SPECIFICATIONS IN LASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION	5. CONTRACTOR SHALL VERIFY THE DOWN-TILT OF EACH ANTENNA WITH A
	THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.	AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN. 36. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR	 CONTRACTOR SHALL CONFIRM COAX COLOR CODING PRIOR TO CONSTRUE LABELING STANDARD" ND-00027 LATEST VERSION.
8.	THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.	CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.	 ALL COAXIAL CABLE SHALL BE SECURED TO THE DESIGNED SUPPORT ST AT DISTANCES NOT TO EXCEED 4'-0" OC.
9.	IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER PRIOR TO	 CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY 	 CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS R AND GROUNDING OF ALL COAXIAL CABLES, CONNECTORS, ANTENNAS, AN
10.	PROCEEDING.	THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.	 CONTRACTOR SHALL WEATHERPROOF ALL ANTENNA CONNECTORS WITH SE WEATHERPROOFING SHALL BE COMPLETED IN STRICT ACCORDANCE WITH
	BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFIRM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.	 NO WHITE STROBE LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS. 	GENERAL CABLE AND EQUIPMENT NOTES
	GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.	40. ALL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.	 CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ANTENNA, TMAS, DIPLED MAKE AND MODELS PRIOR TO INSTALLATION.
12.	ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.	ANTENNA MOUNTING	 ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE RECOMMENDATIONS.
13.	SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. CONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.	 DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/TIA-222 OR APPLICABLE LOCAL CODES. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC 	 CONTRACTOR SHALL REFERENCE THE STRUCTURAL ANALYSIS/DESIGN DRA DISTRIBUTION/ROUTING.
14.	WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.	(HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS NOTED OTHERWISE. 3. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS NOTED OTHERWISE.	 ALL OUTDOOR RF CONNECTORS/CONNECTIONS SHALL BE WEATHERPROOF USING BUTYL TAPE AFTER INSTALLATION AND FINAL CONNECTIONS ARE M MINIMUM OF ONE-HALF TAPE WIDTH OVERLAP ON EACH TURN AND EACH TIMES. WEATHERPROOFING SHALL BE SMOOTH WITHOUT BUCKLING. BUTYL
15.	CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.	 DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780. 	 IF REQUIRED TO PAINT ANTENNAS AND/OR COAX: A. TEMPERATURE SHALL BE ABOVE 50' F.
16.	THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF	 ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH LOCK NUTS, DOUBLE NUTS AND SHALL BE TORQUED TO MANUFACTURER'S RECOMMENDATIONS. 	 B. PAINT COLOR MUST BE APPROVED BY BUILDING OWNER/LANDLORD. C. FOR REGULATED TOWERS, FAA/FCC APPROVED PAINT IS REQUIRED. D. DO NOT PAINT OVER COLOR CODING OR ON EQUIPMENT MODEL NU
17.	THE OWNER. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.	6. CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND GROUNDING.	 ALL PROPOSED GROUND BAR DOWNLEADS ARE TO BE TERMINATED TO TH DOWNLEADS A MINIMUM DISTANCE OF 4'-O" BELOW GROUND BAR, TERMI
18.	GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.	7. PRIOR TO SETTING ANTENNA AZIMUTHS AND DOWNTILTS, ANTENNA CONTRACTOR SHALL CHECK THE ANTENNA MOUNT FOR TIGHTNESS AND ENSURE THAT THEY ARE PLUMB. ANTENNA AZIMUTHS SHALL BE SET FROM TRUE NORTH AND BE ORIENTED WITHIN +/- 5% AS DEFINED BY THE RFDS. ANTENNA DOWNTILTS SHALL BE WITHIN	COMPRESSION.
19.	THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.	+/- 0.5% AS DEFINED BY THE REDS.	SPECIFICATION & RECOMMENDATIONS. ROW UTILITY POLE CONSTRUCTION NOTES
20.	THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.	1. ALL RF CONNECTIONS SHALL BE TIGHTENED BY A TORQUE WRENCH.	1. NO BOLT THREADS TO PROTRUDE MORE THAN 1-1/2" [.038M].
21.	THE GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OT 2-A:10-B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.	 ALL RF CONNECTIONS, GROUNDING HARDWARE AND ANTENNA HARDWARE SHALL HAVE A TORQUE MARK INSTALLED IN A CONTINUOUS STRAIGHT LINE FROM BOTH SIDES OF THE CONNECTION. A. RF CONNECTION BOTH SIDES OF THE CONNECTOR. 	2. FILL ALL HOLES LEFT IN POLE FROM REARRANGEMENT OF CLIMBERS.
22.	ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS	B. GROUNDING AND ANTENNA HARDWARE ON THE NUT SIDE STARTING FROM THE THREADS TO THE SOLID SURFACE. EXAMPLE OF SOLID SURFACE: GROUND BAR, ANTENNA BRACKET METAL.	 ALL CLIMB STEPS NEXT TO CONDUIT SHALL HAVE EXTENDED STEPS. CABLE NOT TO IMPEDE 15" [.381M] CLEAR SPACE OFF POLE FACE (12:0)
	DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C)	3. ALL 8M ANTENNA HARDWARE SHALL BE TIGHTENED TO 9 LB-FT (12 NM).	 90 SHORT SWEEPS UNDER ANTENNA ARM. ALL CABLES MÚST ONLY TRAN OF ARMS (NO CABLE ON TOP OF ARMS).
23.	ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.	 ALL 12M ANTENNA HARDWARE SHALL BE TIGHTENED TO 43 LB-FT (58 NM). ALL GROUNDING HARDWARE SHALL BE TIGHTENED UNTIL THE LOCK WASHER COLLAPSES AND THE GROUNDING 	6. USE 90 CONNECTOR AT CABLE CONNECTION TO ANTENNAS.
20.	ALL EXISTING ON THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.	 ALL DIN TYPE CONNECTIONS SHALL BE TIGHTENED TO 18-22 LB-FT (24.4 - 29.8 NM). 	 PLACE GPS ON ARM WITH SOUTHERN SKY EXPOSURE AT MINIMUM 6' [1.4 IS 24" [.61M] AWAY FROM CENTER OF POLE.
24.	THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.	7. ALL N TYPE CONNECTIONS SHALL BE TIGHTENED TO 15-20 LB-IN (1.7 - 2.3 NM).	8. USE 1/2" [.013M] CABLE ON ANTENNAS UNLESS OTHERWISE SPECIFIED.
25.	NTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL	FIBER & POWER CABLE MOUNTING	9. FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SEALANT TO
	MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.	1. THE FIBER OPTIC TRUNK CABLES SHALL BE INSTALLED INTO CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY. WHEN INSTALLING FIBER OPTIC TRUNK CABLES INTO A CABLE TRAY SYSTEM, THEY SHALL BE INSTALLED	

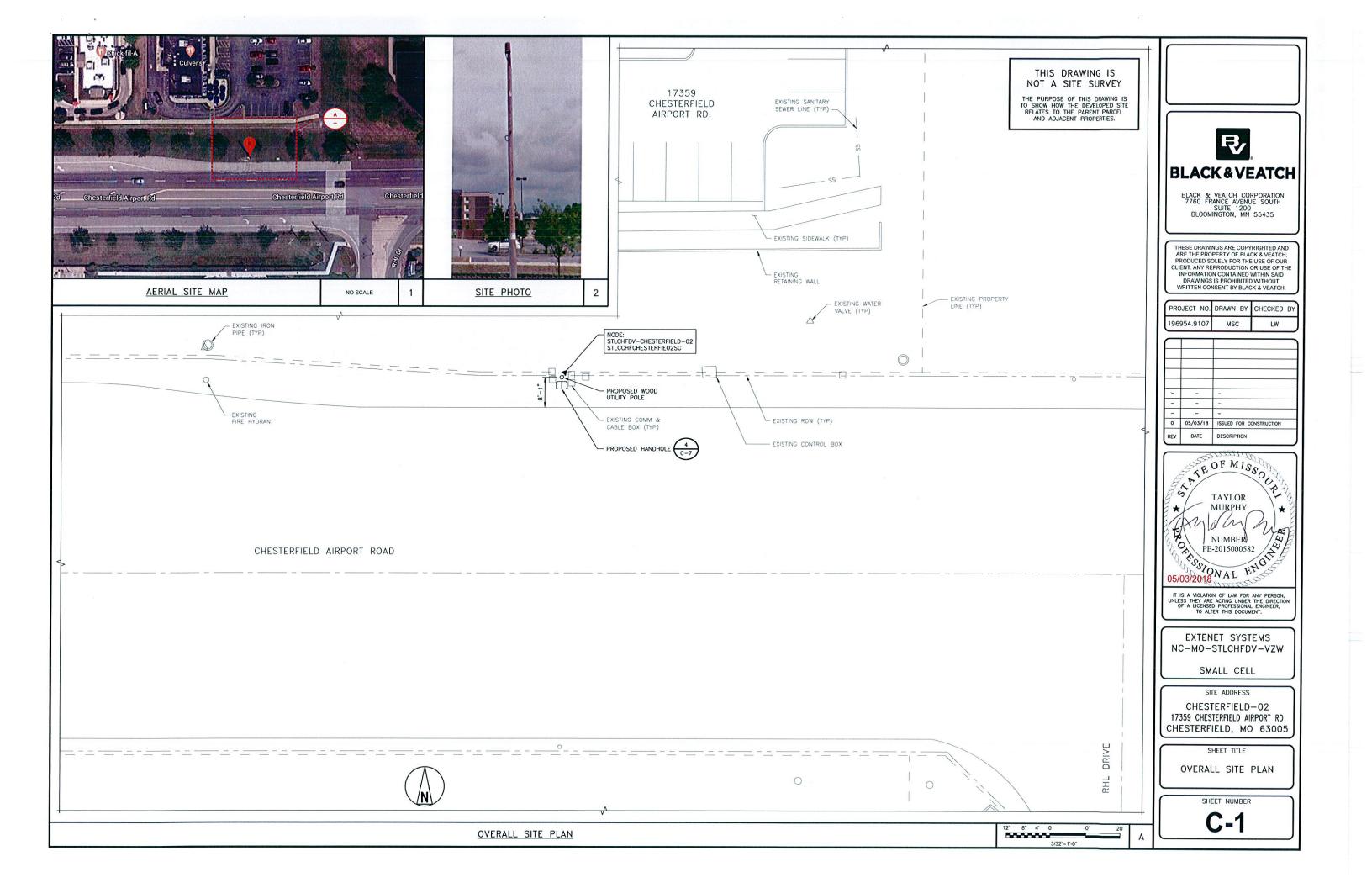
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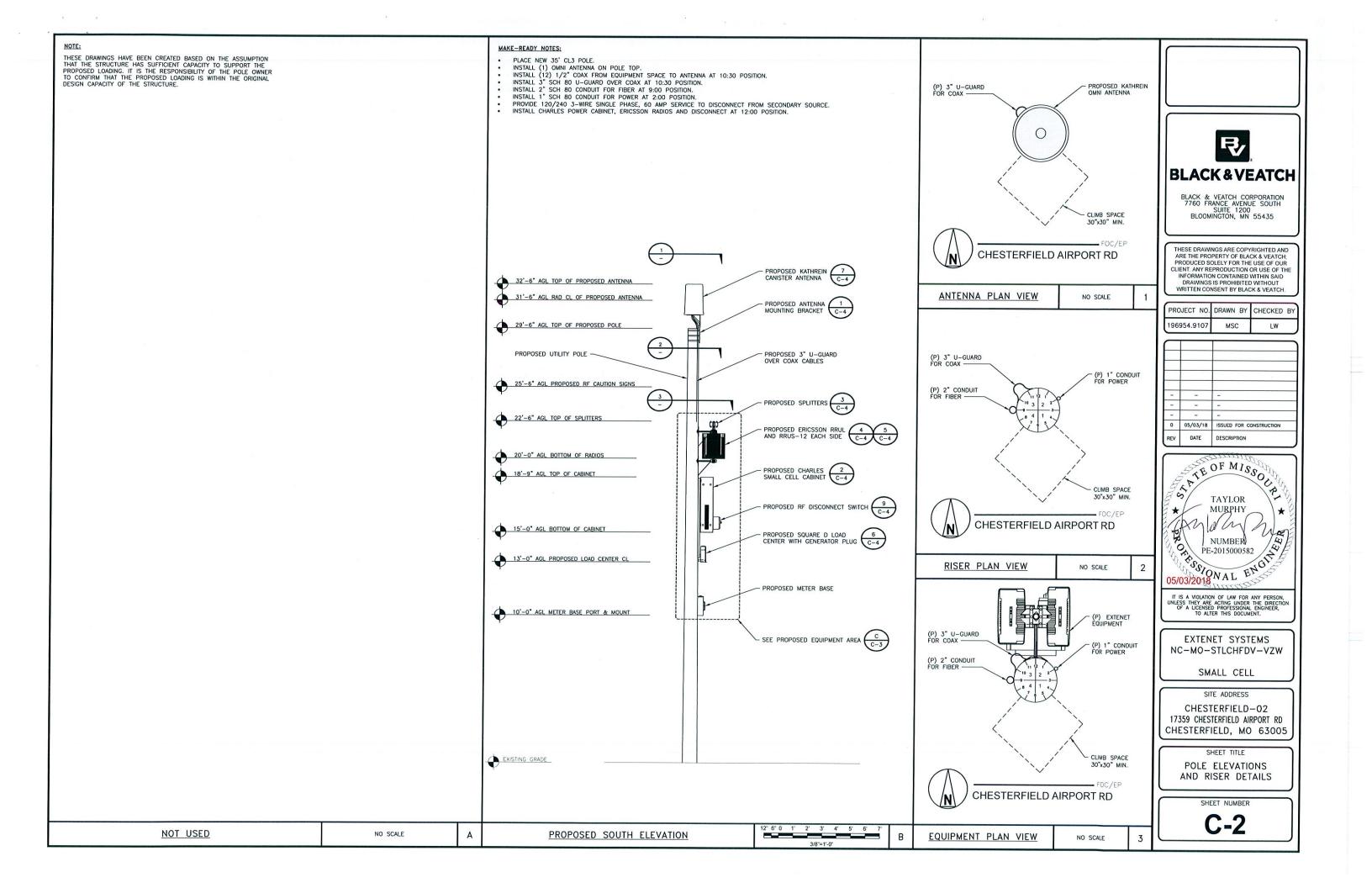
GENERAL NOTES

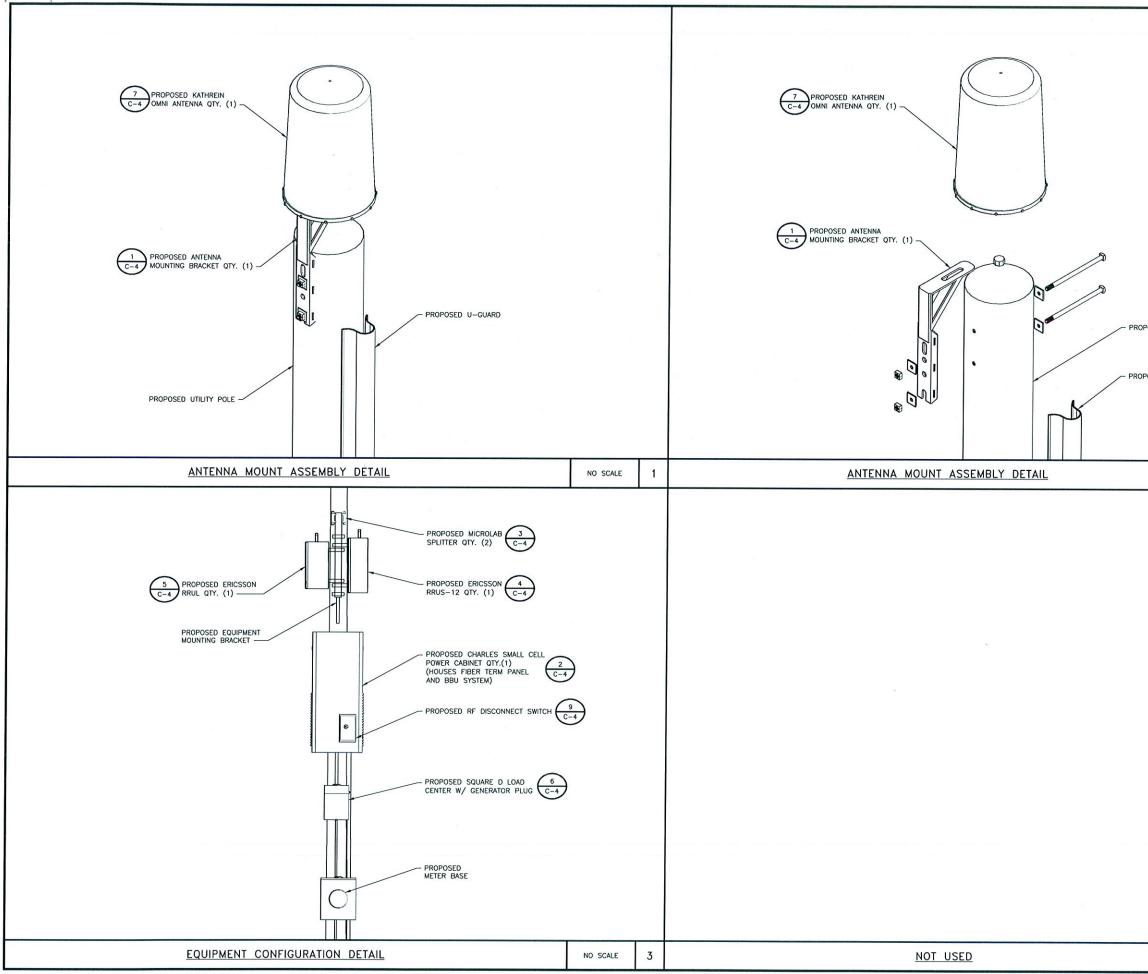
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PART 1 - GENERAL ENGINEERED APPROVED EQUAL. B. CONDUCTORS AND CABLE:					
1.1 GENERAL CONDITIONS:	E. SYSTEM GROUNDING:	1. ALL POWER WIRING SHALL BE COLOR CODED AS FOLLOWS:			
A. CONTRACTOR SHALL INSPECT THE EXISTING SITE CONDITIONS PRIOR TO SUBMITTING BID. ANY QUESTIONS ARISING DURING THE BID PERIOD IN RECARDS TO THE CONTRACTORS FUNCTIONS, THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE PROJECT MANAGER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.	 ALL GROUNDING COMPONENTS SHALL BE TINNED AND GROUNDING CONDUCTOR SHALL BE #2 AWG BARE, SOLD, TINNED, COPPER. ABOVE GRADE GROUNDING CONDUCTORS SHALL BE INSULATED WHERE NOTED. 	DESCRIPTION 208/240/120 VOLT SYSTEMS PHASE A BLACK PHASE B RED PHASE C BLUE			
B. THE CONTRACTOR SHALL OBTAIN PERMITS, LICENSES, MAKE ALL DEPOSITS, AND PAY ALL FEES REQUIRED FOR THE CONSTRUCTION PERFORMANCE FOR THE WORK UNDER THIS SECTION.	 GROUNDING BUSES SHALL BE BARE, TINNED, ANNEALED COPPER BARS OF RECTANGULAR CROSS SECTION. STANDARD BUS BARS MGB, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THEY SHALL NOT BE FABRICATED OR MODIFIED IN THE FIELD. ALL GROUNDING BUSES SHALL BE 	NEUTRAL WHITE GROUNDING GREEN			
C. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. DRAWING SHALL NOT BE SCALED TO DETERMINE	IDENTIFIED WITH MINIMUM 3/4" LETTERS BY WAY OF STENCILING OR DESIGNATION PLATE. 3. CONNECTORS SHALL BE HIGH-CONDUCTIVITY, HEAVY DUTY, LISTED AND LABELED AS GROUNDING	 SPLICES SHALL BE MADE ONLY AT OUTLETS, JUNCTION BOXES, C CONDULETS APPROVED FOR THIS PURPOSE. 			
DIMENSIONS. 1.2 LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES:	CONNECTORS FOR THE MATERIALS USED. USE TWO-HOLE COMPRESSION LUGS WITH HEAT SHRINK FOR MECHANICAL CONNECTIONS. INTERIOR CONNECTIONS USE TWO-HOLE COMPRESSION LUGS WITH INSPECTION WINDOW AND CLEAR HEAT SHRINK.	 PULLING LUBRICANTS SHALL BE UL APPROVED. CONTRACTOR SHA FOR PULLING CONDUCTOR OR CABLES INTO THE CONDUIT. 			
A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, AND ALL APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES. CONDUIT BENDS SHALL BE THE RADIUS BEND FOR THE TRADE SIZE OF CONDUIT IN COMPLIANCE WITH THE LATEST EDITIONS OF NEC.	 EXOTHERMIC WELDED CONNECTIONS SHALL BE PROVIDED IN KIT FORM AND SELECTED FOR THE SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND OTHER ITEMS TO BE CONNECTED. 	 CABLES SHALL BE NEATLY TRAINED, WITHOUT INTERLACING, AND BOXES & EQUIPMENT TO PERMIT MAKING A NEAT ARRANGEMENT. MANNER TO AVOID TENSION ON CONDUCTORS OR TERMINALS. CO FROM MECHANICAL INJURY AND MOISTURE. SHARP BENDS OVER DAMAGED CADLE C. LINUL OF DEVICEMENT AND RECIMENTATION OF THE DAMAGED CADLE C. LINUL OF DEVICEMENT AND RECIMENTATION OF THE DAMAGED CADLE C. LINUL OF DEVICEMENT AND RECIMENTATION OF THE DAMAGED CADLE C. LINUL OF DEVICEMENT AND RECIMENTATION. 			
1.3 REFERENCES:	 GROUND RODS SHALL BE ERICO #615800, COPPER-CLAD STEEL WITH HIGH-STRENGTH STEEL CORE AND ELECTROLYTIC-GRADE COPPER OUTER SHEATH, MOLTEN WELDED TO CORE, 5/8"X10'-0". 	DAMAGED CABLES SHALL BE REMOVED AND REPLACED AT THE CO C. DISCONNECT SWITCHES:			
A. THE PUBLICATIONS LISTED BELOW ARE PART OF THIS SPECIFICATION. EACH PUBLICATION SHALL BE THE LATEST REVISION AND ADDENDUM IN EFFECT ON THE DATE. THIS SPECIFICATION IS ISSUED FOR CONSTRUCTION UNLESS OTHERWISE NOTED. EXCEPT AS MODIFIED BY THE REQUIREMENT SPECIFIED HEREIN OR THE DETAILS OF THE DRAWINGS, WORK INCLUDED IN THIS SPECIFICATION SHALL CONFORM TO THE	6. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS IN COMPLIANCE WITH THE SPRINT SPECIFICATIONS AND NEC. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED AT ALL JUNCTION BOXES, PULLBOXES, DISCONNECT SWITCHES, STARTERS, AND EQUIPMENT CABINETS.	 INSTALL DISCONNECT SWITCHES LEVEL AND PLUMB. CONNECT TO SYSTEM AS INDICATED. D. GROUNDING: 			
APPLICABLE PROVISION OF THESE PUBLICATIONS.	 F. OTHER MATERIALS: 1. THE CONTRACTOR SHALL PROVIDE OTHER MATERIALS, THOUGH NOT SPECIFICALLY DESCRIBED, WHICH 	1. ALL METALLIC PARTS OF ELECTRICAL EQUIPMENT WHICH DO NOT			
ANSI/IEEE (AMERICAN NATIONAL STANDARDS INSTITUTE) ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS) ICE (INSULATED CABLE ENGINEERS ASSOCIATION)	ARE REQUIRED FOR A COMPLETELY OPERATIONAL SYSTEM AND PROPER INSTALLATION OF THE WORK. 2. PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY NEC.	GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MA ELECTRICAL CODE.			
 NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION) NFPA (NATIONAL FIRE PROTECTION ASSOCIATION) OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION) 	G. PANELS AND LOAD CENTERS:	 PROVIDE ELECTRICAL GROUNDING AND BONDING SYSTEM INDICATEI INCLUDING GROUNDING ELECTRODES, BONDING JUMPERS AND ADD REQUIRED FOR A COMPLETE INSTALLATION. 			
7. UL (UNDERWRITERS LABORATORIES. INC.)	1. ALL PANEL DIRECTORIES SHALL BE TYPEWRITTEN.	 ALL GROUNDING CONDUCTORS SHALL PROVIDE A STRAIGHT DOWN GRADUAL BEND AS REQUIRED. GROUNDING CONDUCTORS SHALL N 			
1.4 SCOPE OF WORK: A. WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL, AND ASSOCIATED	PART 3 – EXECUTION	BENT. ROUTE GROUNDING CONNECTIONS AND CONDUCTORS TO G STRAIGHTEST PATHS POSSIBLE TO MINIMIZE TRANSIENT VOLTAGE F			
SERVICES REQUIRED TO COMPLETE REQUIRED CONSTRUCTION AND BE OPERATIONAL. B. ALL ELECTRICAL EQUIPMENT UNDER THIS CONTRACT SHALL BE PROPERLY TESTED, ADJUSTED, AND ALIGNED	3.1 GENERAL: A. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S	 TIGHTEN GROUNDING AND BONDING CONNECTORS, INCLUDING SCR WITH MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUES F 			
BY THE CONTRACTOR. C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATING, DRAINING, TRENCHES, BACKFILLING, AND	RECOMMENDATIONS. B. EQUIPMENT SHALL BE TIGHTLY COVERED AND PROTECTED AGAINST DIRT OR WATER, AND AGAINST CHEMICAL	WHERE MANUFACTURER'S TORQUING REQUIREMENTS ARE NOT AVAI COMPLY WITH TIGHTENING TORQUE VALUES SPECIFIED IN UL TO A GROUNDING.			
C. THE CONTRACTOR STALL BE RESPONSIBLE FOR ALL EACAVALING, DRAINING, TRENCHES, BACKFILLING, AND REMOVAL OF EXCESS DIRT. D. THE CONTRACTOR SHALL FURNISH TO THE OWNER WITH CERTIFICATES OF A FINAL INSPECTION AND	OR MECHANICAL INJURY DURING INSTALLATION AND CONSTRUCTION PERIODS. 3.2 LABOR AND WORKMANSHIP:	 CONTRACTOR SHALL VERIFY THE LOCATIONS OF GROUNDING TIE-II GROUNDING SYSTEM. ALL UNDERGROUND GROUNDING CONNECTION 			
APPROVAL FROM THE INSPECTION AUTHORITIES HAVING JURISDICTION. E. THE CONTRACTOR SHALL PREPARE A COMPLETE SET OF AS-BUILT DRAWINGS, DOCUMENT ALL WIRING	A. ALL LABOR FOR THE INSTALLATION OF MATERIALS AND EQUIPMENT FURNISHED FOR THE ELECTRICAL SYSTEM SHALL BE INSTALLED BY EXPERIENCED WIREMEN, IN A NEAT AND WORKMAN-LIKE MANNER.	EXOTHERMIC WELD PROCESS AND INSTALLED IN ACCORDANCE WITH INSTRUCTIONS.			
EQUIPMENT CONDITIONS, AND CHANGES WHILE COMPLETING THIS CONTRACT. THE AS-BUILT DRAWINGS SHALL BE SUBMITTED AT COMPLETION OF THE PROJECT.	B. ALL ELECTRICAL EQUIPMENT SHALL BE ADJUSTED, ALIGNED AND TESTED BY THE CONTRACTOR AS REQUIRED TO PRODUCE THE INTENDED PERFORMANCE.	 ALL GROUNDING CONNECTIONS SHALL BE INSPECTED FOR TIGHTNE CONNECTIONS SHALL BE APPROVED BY THE INSPECTOR HAVING J PERMANENTLY CONCEALED. 			
PART 2 - PRODUCTS	C. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL EXPOSED EQUIPMENT, REMOVE ALL LABELS AND ANY DEBRIS, CRATING OR CARTONS AND LEAVE THE INSTALLATION FINISHED AND READY FOR OPERATION.	 APPLY CORROSION—RESISTANCE FINISH TO FIELD CONNECTIONS AI APPLIED PROTECTIVE COATINGS HAVE BEEN DESTROYED. USE KOP COMPOUND ON ALL COMPRESSION GROUNDING CONNECTIONS. 			
2.1 GENERAL: A. ALL MATERIALS AND EQUIPMENT SHALL BE UL LISTED, NEW, AND FREE FROM DEFECTS.	3.3 COORDINATION:	8. A SEPARATE, CONTINUOUS, INSULATED EQUIPMENT GROUNDING CO			
B. ALL ITEMS OF MATERIALS AND EQUIPMENT SHALL BE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AS SUITABLE FOR THE USE INTENDED.	A. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRICAL ITEMS WITH THE OWNER-FURNISHED EQUIPMENT DELIVERY SCHEDULE TO PREVENT UNNECESSARY DELAYS IN THE TOTAL	ALL FEEDER AND BRANCH CIRCUITS. 9. BOND ALL INSULATED GROUNDING BUSHINGS WITH A BARE 6 AWG			
C. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.	WORK. 3.4 INSTALLATION:	GROUND BUS. 10. DIRECT BURIED GROUNDING CONDUCTORS SHALL BE INSTALLED AT			
D. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 10,000 AIC MINIMUM. VERIFY AVAILABLE	A. CONDUIT:	MINIMUM BELOW GRADE, OR 6" BELOW THE FROST LINE, USE THE DISTANCES.			
SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PER THE GOVERNING JURISDICTION.	 ALL ELECTRICAL WIRING SHALL BE INSTALLED IN CONDUIT AS SPECIFIED. NO CONDUIT OR TUBING OF LESS THAN 3/4 INCH TRADE SIZE. 	 ALL GROUNDING CONDUCTORS EMBEDDED IN OR PENETRATING CO SCHEDULE 40 PVC CONDUIT. 			
2.2 MATERIALS AND EQUIPMENT: A. CONDUIT:	 PROVIDE RIGID PVC SCHEDULE 80 CONDUITS FOR ALL RISERS, RMC OTHERWISE NOTED. EMT MAY BE INSTALLED FOR EXTERIOR CONDUITS WHERE NOT SUBJECT TO PHYSICAL DAMAGE. 	 THE INSTALLATION OF CHEMICAL ELECTROLYTIC GROUNDING SYSTEM MANUFACTURER'S INSTRUCTIONS. REMOVE SEALING TAPE FROM LEA INSTALL PROTECTIVE BOX FLUSH WITH GRADE. 			
1. RIGID METAL CONDUIT (RMC) SHALL BE HOT-DIPPED GALVANIZED INSIDE AND OUTSIDE INCLUDING ENDS AND THREADS AND ENAMELED OR LACQUERED INSIDE IN ADDITION TO GALVANIZING.	 INSTALL SCH. 40 PVC CONDUIT WITH A MINIMUM COVER OF 24" UNDER ROADWAYS, PARKING LOTS, STREETS, AND ALLEYS. CONDUIT SHALL HAVE A MINIMUM COVER OF 18" IN ALL OTHER NON-TRAFFIC APPLICATIONS (REFER TO 2008 NEC, TABLE 300.5). 	 DRIVE GROUND RODS UNTIL TOPS ARE A MINIMUM DISTANCE OF 3 LINE, USING THE GREATER OF THE TWO DISTANCES. 			
 LIQUIDTIGHT FLEXIBLE METAL CONDUIT SHALL BE UL LISTED. CONDUIT CLAMPS, STRAPS AND SUPPORTS SHALL BE STEEL OR MALLEABLE IRON. ALL FITTINGS 	 USE GALVANIZED FLEXIBLE STEEL CONDUIT WHERE DIRECT CONNECTION TO EQUIPMENT WITH MOVEMENT, VIBRATION, OR FOR EASE OF MAINTENANCE. USE LIQUID TIGHT, FLEXIBLE METAL CONDUIT FOR OUTDOOR APPLICATIONS. INSTALL GALVANIZED FLEXIBLE STEEL CONDUIT AT ALL 	 CONTRACTOR SHALL REPAIR, AND/OR REPLACE, EXISTING GROUNDI DAMAGED DURING CONSTRUCTION AT THE CONTRACTORS EXPENSE. 			
SHALL BE COMPRESSION AND CONCRETE TIGHT TYPE. GROUNDING BUSHINGS WITH INSULATED THROATS SHALL BE INSTALLED ON ALL CONDUIT TERMINATIONS.	POINTS OF CONNECTION TO EQUIPMENT MOUNTED ON SUPPORT TO ALLOW FOR EXPANSION AND CONTRACTION.	3.5 ACCEPTANCE TESTING: A. CERTIFIED PERSONNEL USING CERTIFIED EQUIPMENT SHALL PERFORM REQU			
 NONMETALLIC CONDUIT AND FITTINGS SHALL BE SCHEDULE 40/80 PVC. INSTALL USING SOLVENT-CEMENT-TYPE JOINTS AS RECOMMENDED BY THE MANUFACTURER. 	 A RUN OF CONDUIT BETWEEN BOXES OR EQUIPMENT SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF THREE QUARTER-BENDS. CONDUIT BEND SHALL BE MADE WITH THE UL LISTED BENDER OR FACTORY 90 DEGREE ELBOWS MAY BE USED. 	TEST REPORTS UPON COMPLETION.			
B. CONDUCTORS AND CABLE:	 FIELD FABRICATED CONDUITS SHALL BE CUT SQUARE WITH A CONDUIT CUTTING TOOL AND REAMED TO PROVIDE A SMOOTH INSIDE SURFACE. 	B. WHEN MATERIAL AND/OR WORKMANSHIP IS FOUND NOT TO COMPLY WITH THE NON-COMPLYING ITEMS SHALL BE REMOVED FROM THE PROJECT SITE COMPLYING WITH THE SPECIFIED REQUIREMENTS PROMPTLY AFTER RECEIPT			
 AC CONDUCTORS SHALL BE FLAME-RETARDANT, MOISTURE AND HEAT RESISTANT THERMOPLASTIC, SINGLE CONDUCTOR, COPPER, TYPE THHN/THWN-2, 600 VOLT, SIZE AS INDICATED, #12 AWG SHALL BE THE MINIMUM SIZE CONDUCTOR USED. 	7. PROVIDE INSULATED GROUNDING BUSHING FOR ALL CONDUITS.	NON-COMPLIANCE. C. TEST PROCEDURES:			
 #10 AWG AND SMALLER CONDUCTOR SHALL BE SOLID OR STRANDED AND #8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED. 	8. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL CONDUITS DURING CONSTRUCTION. TEMPORARY OPENINGS IN THE CONDUIT SYSTEM SHALL BE PLUGGED OR CAPPED TO PREVENT ENTRANCE OF MOISTURE OR FOREIGN MATTER. CONTRACTOR SHALL REPLACE ANY CONDUITS CONTAINING FOREIGN	 ALL FEEDERS SHALL HAVE INSULATION TESTED AFTER INSTALLATION DEVICES. THE CONDUCTORS SHALL TEST FREE FROM SHORT CIRCU SHALL BE FOR ONE MINUTE USING 1000V DC. PROVIDE WRITTEN D 			
 SOLDERLESS, COMPRESSION-TYPE CONNECTORS SHALL BE USED FOR TERMINATION OF ALL STRANDED CONDUCTORS. 	MATERIALS THAT CANNOT BE REMOVED. 9. ALL CONDUITS SHALL BE SWABBED CLEAN BY PULLING AN APPROPRIATE SIZE MANDREL THROUGH	RESULTS. 2. PRIOR TO ENERGIZING CIRCUITRY, TEST WIRING DEVICES FOR ELEC			
 STRAIN-RELIEF SUPPORTS GRIPS SHALL BE HUBBELL KELLEMS OR APPROVED EQUAL. CABLES SHALL BE SUPPORTED IN ACCORDANCE WITH THE NEC AND CABLE MANUFACTURER'S RECOMMENDATIONS. 	THE CONDUIT BEFORE INSTALLATION OF CONDUCTORS OR CABLES. CONDUIT SHALL BE FREE OF DIRT AND DEBRIS.	POLARITY CONNECTIONS. 3. MEASURE AND RECORD VOLTAGES BETWEEN PHASES AND BETWEEN			
 ALL CONDUCTORS SHALL BE TAGGED AT BOTH ENDS OF THE CONDUCTOR, AT ALL PULL BOXES, J-BOXES, EQUIPMENT AND CABINETS AND SHALL BE IDENTIFIED WITH APPROVED PLASTIC TAGS 	 INSTALL PULL STRINGS IN ALL CLEAN EMPTY CONDUITS. IDENTIFY PULL STRINGS AT EACH END. INSTALL 2" HIGHLY VISIBLE AND DETECTABLE TAPE 12" ABOVE ALL UNDERGROUND CONDUITS AND CONDUCTORS. 	 NEUTRALS. SUBMIT A REPORT OF MAXIMUM AND MINIMUM VOLTAGE PERFORM GROUNDING TEST TO MEASURE GROUNDING RESISTANCE THE IEEE STANDARD 3-POINT "FALL-OF-POTENTIAL" METHOD. PRO 			
(ACTION CRAFT, BRADY, OR APPROVED EQUAL). C. DISCONNECT SWITCHES:	12. CONDUITS SHALL BE INSTALLED IN SUCH A MANNER AS TO INSURE AGAINST COLLECTION OF	LOCATION SKETCH. NOTIFY THE ENGINEER IMMEDIATELY IF MEASURE			
 DISCONNECT SWITCHES SHALL BE HEAVY DUTY, DEAD-FRONT, QUICK-MAKE, QUICK-BREAK, EXTERNALLY OPERABLE, HANDLE LOCKABLE AND INTERLOCK WITH COVER IN CLOSED POSITION, RATING AS INDICATED, UL LABELED FURNISHED IN NEMA 3R ENCLOSURE, SQUARE-D OR 	TRAPPEDCONDENSATION.				
	GENERAL NOTES				

S, OR ACCESSIBLE RACEWAY R/ SHALL USE NYLON OR HEMP ROPE ND BE OF SUFFICIENT LENGTH IN ALL ENT. CABLES SHALL BE SECURED IN A CONDUCTORS SHALL BE PROTECTED ER CONDUIT BUSHINGS IS PROHIBITED. **BLACK & VEATCH** CONTRACTOR'S EXPENSE. BLACK & VEATCH CORPORATION 7760 FRANCE AVENUE SOUTH SUITE 1200 BLOOMINGTON, MN 55435 TO WIRING SYSTEM AND GROUNDING OT CARRY CURRENT SHALL BE MANUFACTURER, AND THE NATIONAL THESE DRAWINGS ARE COPYRIGHTED AND ARE THE PROPERTY OF BLACK & VEATCH, PRODUCED SOLELY FOR THE USE OF OUR CLIENT. ANY REPRODUCTION OR USE OF THE ATED WITH ASSEMBLY OF MATERIALS, ADDITIONAL ACCESSORIES AS INFORMATION CONTAINED WITHIN SAID DRAWINGS IS PROHIBITED WITHOUT WRITTEN CONSENT BY BLACK & VEATCH. OWNWARD PATH TO GROUND WITH LL NOT BE LOOPED OR SHARPLY O GROUND IN THE SHORTEST AND GE RISES. PROJECT NO. DRAWN BY CHECKED BY 196954.9107 MSC LW SCREWS AND BOLTS, IN ACCORDANCE S FOR CONNECTORS AND BOLTS. AVAILABLE, TIGHTEN CONNECTIONS TO TO ASSURE PERMANENT AND EFFECTIVE IE-IN-POINTS TO THE EXISTING TIONS SHALL BE MADE BY THE WITH THE MANUFACTURER'S -HTNESS. EXOTHERMIC WELDED G JURISDICTION BEFORE BEING -0 05/03/18 ISSUED FOR CONSTRUCTION S AND PLACES WHERE FACTORY KOPR-SHIELD ANTI-OXIDATION REV DESCRIPTION DATE CONDUCTOR SHALL BE INSTALLED IN TE OF MISSOL AWG GROUNDING CONDUCTOR TO A TAYLOR AT A NOMINAL DEPTH OF 36" THE GREATER OF THE TWO MURPHY * * NUMBER PE-2015000582 05/03/2018 NAL ENG 05/03/2018 NUMBER CONCRETE SHALL BE INSTALLED IN STEM IN STRICT ACCORDANCE WITH LEACHING AND BREATHER HOLES. OF 36" DEPTH OR 6" BELOW FROST UNDING SYSTEM COMPONENTS IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT. REQUIRED TESTS AND SUBMIT WRITTEN EXTENET SYSTEMS TH THE SPECIFIED REQUIREMENTS, NC-MO-STLCHFDV-VZW SITE AND REPLACED WITH ITEMS SMALL CELL ATION, BEFORE CONNECTION TO IRCUITS AND GROUNDS. TESTING EN DOCUMENTATION FOR ALL TEST SITE ADDRESS CHESTERFIELD-02 17359 CHESTERFIELD AIRPORT RD LECTRICAL CONTINUITY AND PROPER CHESTERFIELD, MO 63005 EEN PHASE CONDUCTORS AND TAGES. SHEET TITLE CE OF GROUNDING SYSTEM USING GENERAL NOTES PROVIDE PLOTTED TEST VALUES AND SURED VALUE IS OVER 5 OHMS. SHEET NUMBER GN-3



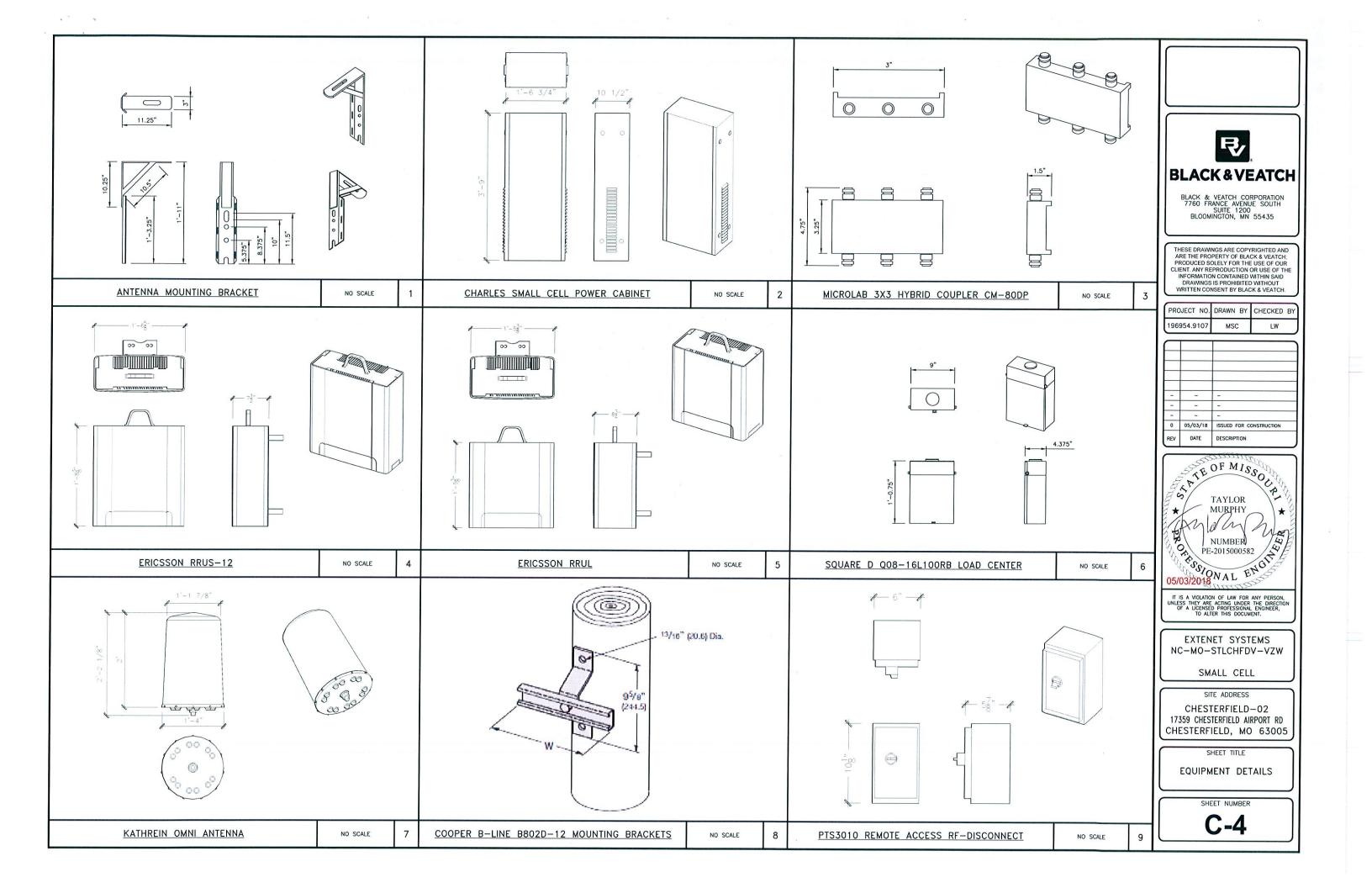


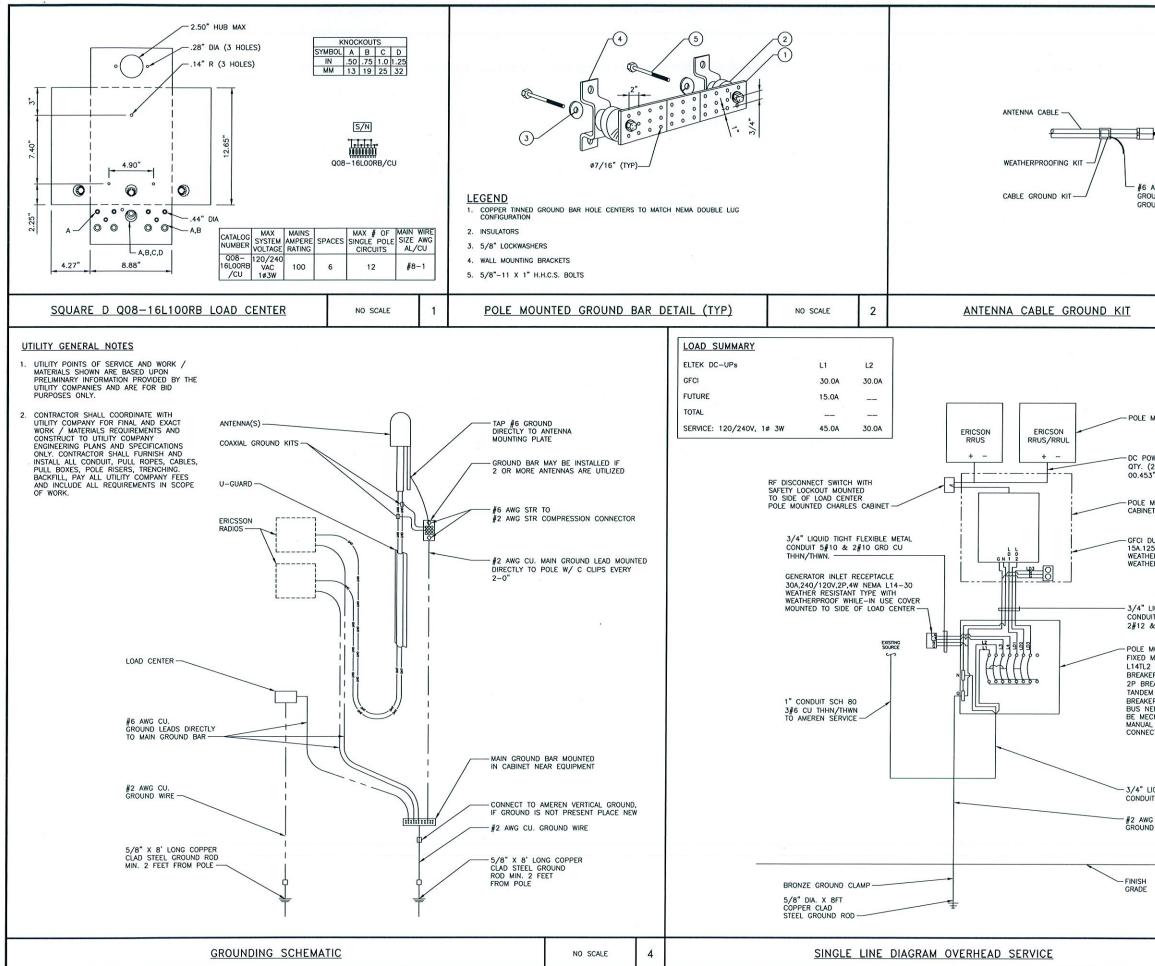


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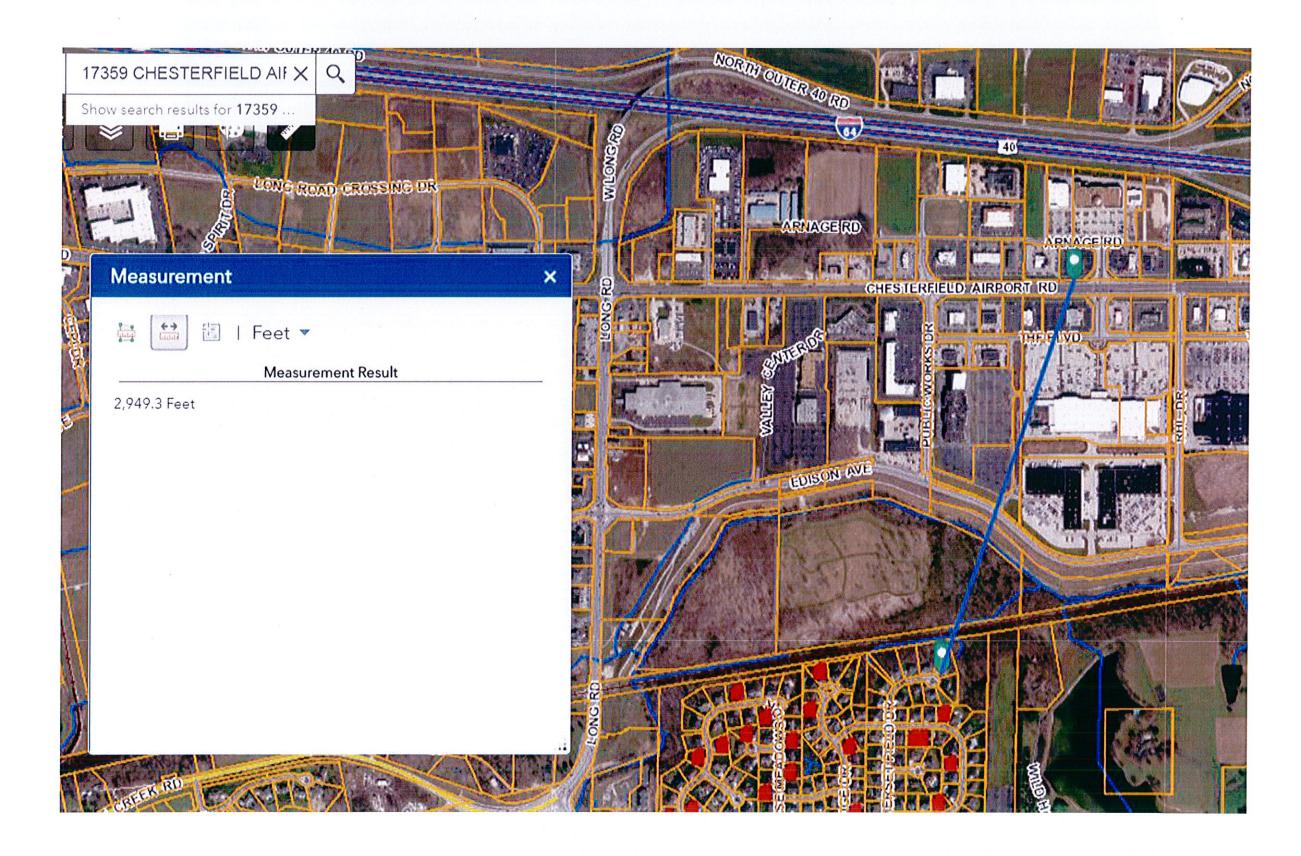
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			BLACK & VEATCH
			T760 FRANCE AVENUE SOUTH SUITE 1200 BLOOMINGTON, MN 55435
			ARE THE PROPERTY OF BLACK & VEATCH; PRODUCED SOLELY FOR THE USE OF OUR CLIENT. ANY REPRODUCTION OR USE OF THE INFORMATION CONTAINED WITHIN SAID DRAWINGS IS PROHIBITED WITHOUT WRITTEN CONSENT BY BLACK & VEATCH.
Posed utility pole			PROJECT NO. DRAWN BY CHECKED BY 196954.9107 MSC LW
POSED U-GUARD			
	T	Τ.	 0 05/03/18 ISSUED FOR CONSTRUCTION
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			TAYLOR TAYLOR MURPHY NUMBER PE-2015000582 SSIONAL UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A UCRNEE PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.
			EXTENET SYSTEMS NC-MO-STLCHFDV-VZW SMALL CELL
			SITE ADDRESS CHESTERFIELD-02 17359 CHESTERFIELD AIRPORT RD CHESTERFIELD, MO 63005
			SHEET TITLE EQUIPMENT DETAILS
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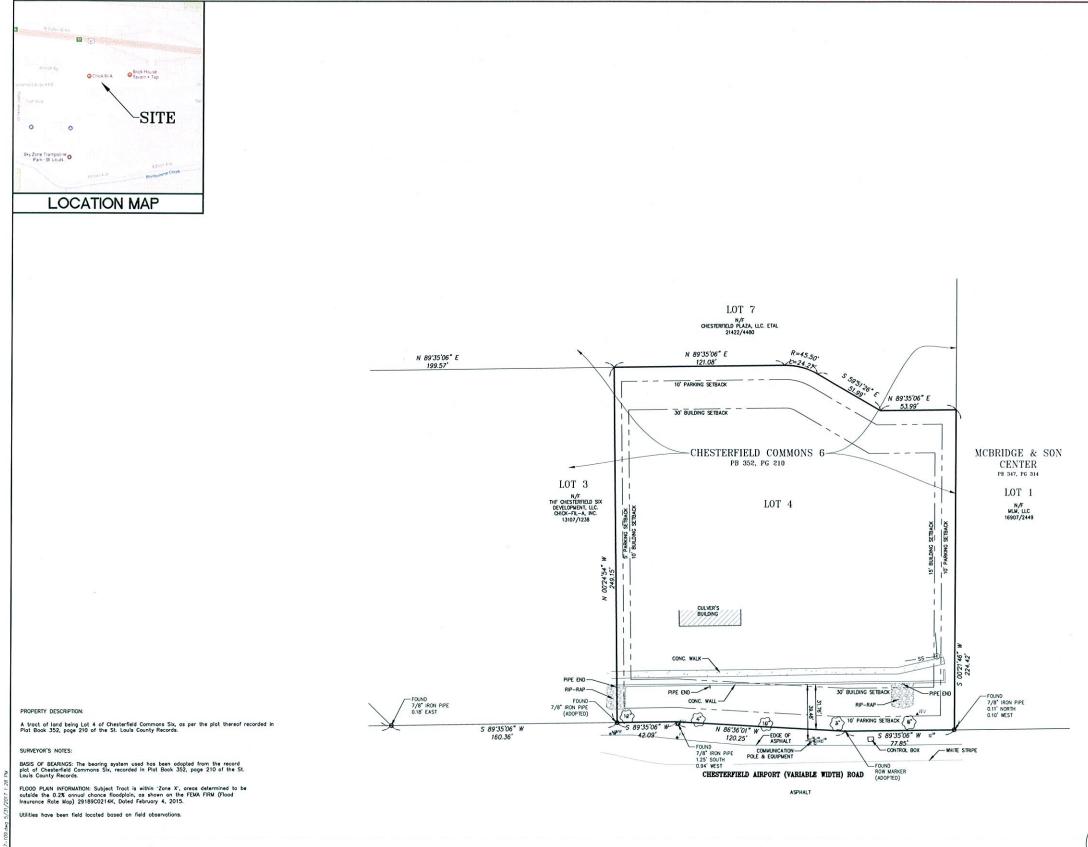




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	BLACK & VEATCH
AWG STRANDED COPPER OUND WIRE (GROUNDED TO OUND BAR)	BLACK & VEATCH CORPORATION 7760 FRANCE AVENUE SOUTH SUITE 1200 BLOOMINGTON, MN 55435
	THESE DRAWINGS ARE COPYRIGHTED AND ARE THE PROPERTY OF BLACK & VEATCH; PRODUCED SOLELY FOR THE USE OF OUR CLIENT. ANY REPRODUCTION OR USE OF THE INFORMATION CONTAINED WITHIN SAID DRAWINGS IS PROHIBITED WITHOUT WRITTEN CONSENT BY BLACK & VEATCH
NO SCALE 3	PROJECT NO. DRAWN BY CHECKED BY
	196954.9107 MSC LW
MOUNTED RADIOS	
OWER CORD	
(2) #10-2 SOOW, 53"—0.606"	0 05/03/18 ISSUED FOR CONSTRUCTION REV DATE DESCRIPTION
MOUNTED CHARLES IET	OF MIS
DUPLEX RECEPTACLE 25V.2P.3W NEMA 5–15R HER RESISTANT TYPE WITH HERPROOF WHILE-IN USE COVER	TAYLOR * MURPHY *
LIQUID TIGHT FLEXIBLE METAL UIT 5#10 & 2#10 GRO CU THHN/THWN. & 1#12 GRD CU THHN/THWN.	NUMBER PE-2015000582
MOUNTED SERVICE RATED LOAD CENTER 100A, MAINS, 1ø, 120/240V. CIRCUIT BREAKERS: 2 (SERVICE DISCONNECT)-60A, 240/120V 2P CER, L3&L4(GENERATOR IN)-30A, 240/120V REAKER, LD1&LD2(UPS 0UT)-30A 240/120V M BREAKER, LD3(GFCI 0UT)-15A 120V	05/03/2018 IT IS A VOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL DEGINEER, TO ALTER THIS DOCUMENT.
KER, LD4(FUTURE) WITH NEUTRAL 4 GROUND VEMA 3R ENCLOSURE, L1&L2 2P BREAKER TO ECHANICALLY INTERLCOKED TO L3&L4 FOR AL TRANSFER FROM UTILITY TO GENERATOR ECTION.	EXTENET SYSTEMS NC-MO-STLCHFDV-VZW
	SMALL CELL
LIQUID TIGHT FLEXIBLE METAL JIT 3∦6 CU THHN∕THWN. VG CU. ND WIRE	SITE ADDRESS CHESTERFIELD-02 17359 CHESTERFIELD AIRPORT RD CHESTERFIELD, MO 63005
	SHEET TITLE
	GROUNDING DETAILS
	SHEET NUMBER
NO SCALE 5	C-5



Distance to the nearest residential structure.



SURVEYOR'S CERTIFICATE

This is to certify that we, Geteway Lond Services, inc. at the request of Block & Vealch have during the month of May, 2017, executed a Partial Property Bondary & Improvement Survey in Service of the Service of Service Service of S



0 30 EV GRAPHIC SCALE IN FEET 1' = 30	GLES GATEWAY Land Services Land Struceying Calleway Land Services for St Lode, Mr OSTSE Office SHABIBOSO WWW.gball.com Land Services Not Lo-200004482
AC ACRES ASPH ACRES ASPH ACRES ASPH ASPHALT BK BOOK BULDIMARK CONCRETE CONCRETE CONCRETE CONCRETE CONCRETE EMH ELECTRIC MANHOLE ELECTRIC MANHOLE	Jamee L. Degenhardt, PLS. Licence No: PL-9-2649 PROJECT REVISION:
SA SAITARY SB SITE BENCHMARK SF SOUARE FEET ST STORM SUR SURVEY SW SOUTHERSTORMER TRANS TRANSFORMER W SOUTHERSTO CLAY PIPE W WST WMH WATER MANNOLE W/ DENOTES WTH C→ PP PORE POLE W/OUY WRE • PP PORE POLE	SITE NAME: STLCHFDV 17359 W. CHESTERFIELD CHESTERFELD, MO 63005 ST. LOUIS COUNTY
STRET SIGN GAS VALVE GAS VALVE GAS VALVE GAS VALVE WATER VALVE WATTER VALVE WATER VALVE WATTER VALVE WATER VALVE	PARTIAL BOUNDARY & IMPROVEMENT SURVEY
Missouri One Call System, Inc. Call Before You Dig! 1-800-DIG-RITE (1-800-344-7483)	DATE: 5/31/17 BOOK NO.: BOOK NO DRAFTED BY: LLW APPROVED BY: JLD FILE NAME: 17-109.0WG SHEET TITLE:
All the improvements & forillies and utilities, does yound and underground shown harein ever pitted from available information and an at necessary reflect the octube existence, anousliker, foolilies, so utilities. The General Contactor and/or owner shall be responsible for verifying the octube location of an improvements, foolilies, a utilities and the shown or not shown, and sold improvements, foolilies, a utilities and the aboven or not shown, and sold improvements, foolilies, a utilities and the aboven or not shown, and sold improvements, foolilies, a utilities and the aboven or not shown, and sold improvements, foolilies, a utilities and the aboven or not shown, and sold improvements, foolilies, a utilities and the aboven or not shown, and sold improvements, foolilies, a utilities and the aboven or not shown, and sold improvements, foolilies, a utilities and the aboven or not shown, and sold improvements, foolilies, a utilities and the aboven or not shown, and sold improvements, foolilies, a utilities and the aboven or shown and and a shown above aboven construction of an aboven and the shown and the aboven above	SURVEY SHEET NUMBER SUV-1 SHEET NO: 1 OF 1 PROJECT NO: 17-109

