

Staff Report for Administrative Approval

Weber County Planning Division

Synopsis

Application Information				
Application Request:	Consideration and action on a conditional use permit application for a new collocation on an existing wireless telecommunications facility.			
Type of Decision: Applicant: Authorized Agent: File Number:	Administrative Verizon Wireless Craig Chagnon CUP# 2018-04			
Property Information				
Approximate Address: Project Area: Zoning: Existing Land Use: Proposed Land Use: Parcel ID: Township, Range, Section: Adjacent Land Use North: Residential East: Residential	2449 W 4000 S, Roy 0.07 acres M-1 Cell tower Cell tower equipment collocation 08-052-0016 Township 5 North, Range 2 West, Section 11 South: Residential West: Residential			
	vest. Residential			
Staff Information Report Presenter: Report Reviewer:	Steve Burton sburton@co.weber.ut.us 801-399-8766 RK			
Applicable Ordinances				

Applicable Ordinances

- Title 104, Chapter 22 Manufacturing Zone (M-1)
- Title 108, Chapter 1 Design Review
- Title 108, Chapter 4 Conditional Uses

Summary and Background

The applicant is requesting approval of a conditional use permit for a new collocation of telecommunication equipment on the existing cell tower located at 2449 W 4000 S, Roy. The proposed collocation will not include any ground expansion or increased height of the existing site and tower. The list of all proposed new equipment is outlined in the conditional use application (Exhibit A).

Conditional use permits should be approved as long as any harmful impact is mitigated. The Uniform Land Use Code of Weber County, Utah (LUC) already specifies certain standards necessary for mitigation of harmful impact to which the proposal must adhere. The proposed application meets these standards. The following is staff's evaluation of the request.

Analysis

<u>General Plan</u>: The proposed use conforms to the West Central Weber County General Plan ensuring that new manufacturing uses are within existing manufacturing zones.

<u>Zoning</u>: The subject property is located within the Manufacturing (M-1) zone. The intent of the M-1 zone can be further described in LUC §104-22-1 as follows:

The purpose of the light manufacturing zone is to provide suitable areas that will accommodate the need for light intensity type manufacturing and its associated accessory uses, some of which may have an environmental impact requiring public review and regulation.

The proposed use is conditionally allowed in the M-1 zone and has been reviewed as a "Public utility substation". The proposed new equipment will be located within the existing fenced equipment compound. The proposed new equipment will meet the following setback requirements of the M-1 Zone (104-22-4(3)):

Minimum yard setbacks:

Front: 30 feet on streets of less than 80 feet in width; 50 feet on streets and highways of 80 feet or more in width

Side: None, except 20 feet where adjacent to a residential zone boundary and a side yard facing a street on a corner lot, and for single-family dwelling.

Rear: None, except 20 feet where building rears on a residential zone and 30 feet for single-family dwellings.

<u>Conditional Use Review</u>: A review process has been outlined in LUC §108-4-3 to ensure compliance with the applicable ordinances and to mitigate anticipated detrimental effects. The following is an analysis of the application reviewed against the applicable conditional use standards:

- Standards relating to safety for persons and property: The application is for a collocation, not a new tower. Because the proposed collocation does not include any ground expansion or height increase, concerns of safety of persons and property are not anticipated.
- Standards relating to infrastructure, amenities, and services: The proposed collocation will enhance the telecommunications services that are provided in the area. The new equipment will be located on the existing cell tower site.
- *Standards relating to the environment:* Detrimental effects to the environment are being mitigated by the applicant choosing to collocate rather than propose a new tower.
- Standards relating to the current qualities and characteristics of the surrounding area and compliance with the intent of the general plan: The proposed site is an existing cell tower site. The proposed collocation includes equipment that is already on the site for other telecommunication companies and will not have detrimental effects on the surrounding area.

<u>Design Review</u>: The proposed conditional use mandates a design review as outlined in LUC §108-1 to ensure that the general design, layout and appearance of the building remains orderly and harmonious with the surrounding neighborhood. Certain areas of the design review are only applicable due to the nature of the request. As part of this review, the Planning Director shall consider the applicable matters based on the proposed conditional use and impose conditions to mitigate deficiencies where the plan is found deficient. The matters for consideration are as follows:

- Considerations relating to traffic safety and traffic congestion. Traffic safety and congestion are not anticipated given the nature of the request.
- *Considerations relating to landscaping.* 10% of the project area consists of existing deciduous trees and field grass, meeting the landscaping requirement.
- *Considerations relating to buildings and site layout.* The proposal does not include any buildings or site expansion. The proposed equipment will be located on the tower and within the existing fenced area.
- Considerations relating to utility easements, drainage, and other engineering questions. The applicant will need to adhere to all conditions of the Engineering Division including but not limited to storm water and surface water drainage, retention facilities, and site clean-up of the property. A condition has been made part of the Planning Division's recommendations to ensure that this standard is met.
- Considerations relating to prior development concept plan approval associated with any rezoning agreement, planned commercial or manufacturing rezoning, or planned residential unit development approval. The proposed site does not have any type of development agreement associated with the property; therefore considerations pertaining to this portion of the code are not applicable at this time.

<u>Review Agencies</u>: Prior to the commencement of work, the applicant will need to receive the approval from all applicable agencies for the water system improvements. A condition has been made part of the Planning Division's recommendations to ensure that all conditions of the review agencies will be met.

Summary of Planning Director Considerations

LUC §108-4-3(2)(7) states the following:

De minimis revisions to a previously approved conditional use permit may be approved by the planning director provided it can be determined that the changes are slight, inconsequential, and not in violation of any substantive provision of this Code. The planning director's written approval of a de minimis revision shall be appended to the written decision of the planning commission. Revisions that are de minimis shall not require public notice.

Staff Recommendation

Staff recommends approval of file# CUP 2018-04, a conditional use permit for a new collocation of telecommunication equipment on the existing cell tower located at 2449 W 4000 S, Roy. This recommendation for approval is subject to all review agency requirements and is based on the following findings:

- 1. The project is considered a de minimis revision to a previously approved conditional use permit.
- 2. The proposed use conforms to the West Central Weber County General Plan.
- 3. The proposed use will provide the needed water sources to meet the demands of the Western Weber area.
- 4. The proposed use, if conditions are imposed, will not be detrimental to public health, safety, or welfare.
- 5. The proposed use, if conditions are imposed, will comply with applicable County ordinances.
- 6. The proposed use will not deteriorate the environment of the general area so as to negatively impact surrounding properties and uses.

Administrative Approval

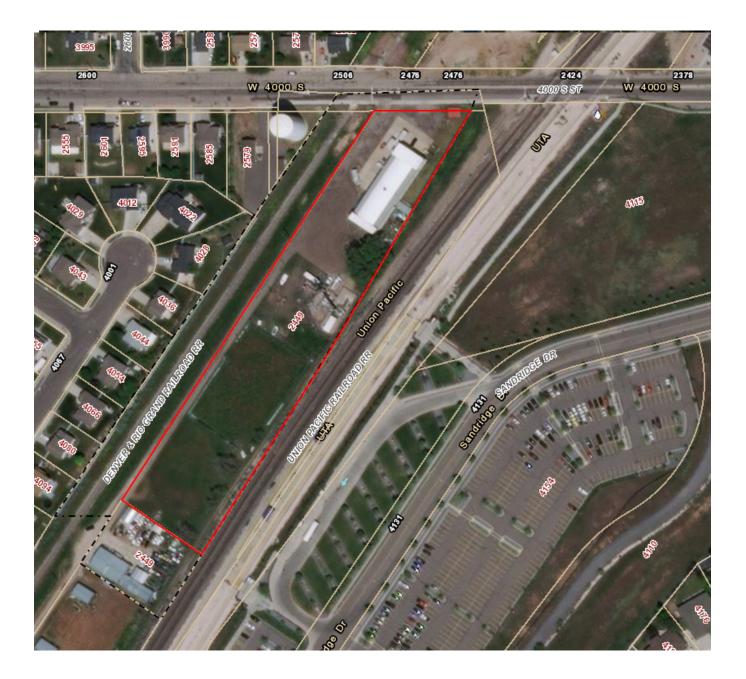
Administrative approval of the CUP 2018-04 is hereby granted based upon its compliance with the Weber County Land Use Code.

Date of Administrative Approval: _____

Rick Grover Weber County Planning Director

Exhibits

- A. Application
- B. Site Plan



	\bigcirc	/	· •	Exhibit A Page 1 of 2
W	eber County Cor	nditional Use Permit A		aye i ui z
		ment only. (801) 399-8791. 2380 Washingt	••	UT 84401
Date Submitted / Completed 07/05/2018	Fees (Office Use)	Receipt Number (Office Use)	File Number (Office	e Use)
Property Owner Conta	ct Information	<u> </u>	L	
Name of Property Owner(s) Todd Potter		Mailing Address of Property O 5863 SOUTH 2950 WEST ROY, UT 84067)wner(s)	
Phone (801) 731-8615	Fax	NOT, OT 64007		
Email Address (required) kwikcitymuffler@hotmail.com		Preferred Method of Written C	Correspondence] Mail	
Authorized Representa	tive Contact Information			
Name of Person Authorized to Craig Chagnon / Crown Castle ,	Represent the Property Owner(s) / Lessee-Tower Owner	Mailing Address of Authorizec 116 Inverness Drive East, Ste. 2 Englewood, CO 80112	l Person 280	
Phone 801-979-9077	Fax			
Email Address craig.chagnon@crowncastle.co	m	Preferred Method of Written C	Correspondence] Mail	
Property Information				
Project Name Verizon New Collocation		Total Acreage 0.07	Current Zoning M-1	
Approximate Address 2449 WEST 4000 SOUTH ROY, UT 84067		Land Serial Number(s) 08-052-0016	, , ,, t ,	
Proposed Use Existing - Collocation on existin	g wireless telecommunications fac			
Project Narrative Verizon Wireless proposes a ne existing fenced lease area of th	w collocation on an existing 130' m	onopole consisting of tower equipment and g pansion. The tower equipment will be located	ground space. The installatio d at the 96' centerline of this 1	n fits within the 30' monopole, so
	(6) new RRHs, & (2) New OVPs ables			

Install (1) ILC Cabinet on Proposed H-Frame Extension

Verizon Wireless is the applicant and tenant of Crown Castle USA (STC Five LLC), tower owner/operator. The STC Five LLC lease agreement is with Todd Porter for ground space and rights that include the right to sublease and modify the site at any time without owner consent. Current lease is included with application.

Basis for Issuance of Conditional Use Permit

Reasonably anticipated detrimental effects of a proposed conditional use can be substantially mitigated by the proposal or by the imposition of reasonable conditions to achieve compliance with applicable standards. Examples of potential negative impacts are odor, vibration, light, dust, smoke, or noise.

The proposed installation of telecommunications equipment fits within the existing use at this site. The generator may cause noise at a minimal occurence level. Generator is for backup purposes only and cycles at a regular and predetermined intervals.

Exhibit A Page 2 of 2

That the proposed use will comply with the regulations and conditions specified in the Zoning Ordinance and other applicable agency standards for such use.

The existing telecommunications facility operates under, and is in compliance with, an exiting conditional use permit. The proposed project shall operate and comply with any conditional use requirements.

Exhibit B Page 1 of 17



SITE INFORMATION	AREA MAP	PROJECT DESCRIPTION		DRAWING IN
APPLICANT:		VERIZON PROPOSES TO MODIFY AN EXISTING UNMANNED	SHEET NO:	SHEET
VERIZON		TELECOMMUNICATION FACILITY:	T-1	TITLE SHEET & PROJECT DA
180 WASHINGTON VALLEY ROAD BEDMINSTER, NJ 07921	^β 9 W 3775 S W 3756 S Ø	INSTALL (2) NEW EQUIPMENT CABINETS ON EXISTING 10'x16'		
CONTACT:	W 3775 S 6 W 3750 S 0 W 3775 S 0	CONCRETÉ PAD	SP-1	VERIZON SPECIFICATIONS
TBD		INSTALL (1) NEW 30KW BACKUP GENERATOR ON EXISTING 10'x16'		
TOWER OWNER:		CONCRETE PAD	A-1	OVERALL SITE PLAN
CROWN CASTLE	Nº O'GI	INSTALL (1) UTILITY H-FRAME EXTENSION	A-2	ENLARGED SITE PLAN
CROWN CASTLE PM:	W 3995 W 3900 S	• INSTALL (6) NEW PANEL ANTENNAS, (6) NEW RRHs, & (2) NEW OVPs	A-3	COMPOUND PLAN
GRANT STEINHAUSER	W 39 ⁴ S 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	INSTALL (2) NEW HI-CAP HYBRID CABLES	A-4	PROPOSED TOWER ELEVATION
(720) 450–3009			A-5	ANTENNA LAYOUT & LOADING
LATITUDE (NAD83):	/ 40th S 37 108 S STEE W 4000 S S C C C C C C C C C C C C C C C C		A-6 A-7	EQUIPMENT & MOUNTING DE
41° 11' 22.4" N	126 ₩ 4050 ST	INSTALL (1) ILC CABINET ON PROPOSED H-FRAME EXTENSION	A-7 A-8	EQUIPMENT & MOUNTING DE EQUIPMENT LAYOUT & DETAIL
41.189556"	10		A-8 A-9	GENERATOR SPECIFICATIONS
LONGITUDE (NAD83):	W-4125 S George Wahlen North Park		A-9	GENERATOR SPECIFICATIONS
112°2′21.0″W	vo State State S	THESE PLANS HAVE BEEN DEVELOPED FOR THE MODIFICATION OF AN	E-1	OVERALL CONDUIT LAYOUT
-112.039167*		EXISTING UNMANNED TELECOMMUNICATIONS FACILITY OWNED OR LEASED BY	E-2	EQUIPMENT CONDUIT LAYOUT
COUNTY:		VERIZON IN ACCORDANCE WITH THE SCOPE OF WORK PROVIDED BY VERIZON. INFINIGY HAS INCORPORATED THIS SCOPE OF WORK IN THE PLANS. THESE	E-3	ELECTRICAL DETAILS
WEBER	4 ₩ 4225 S ₩ 4275 S ₩ 4275 S ₩ 4275 S	PLANS ARE NOT FOR CONSTRUCTION UNLESS ACCOMPANIED BY A PASSING		
ZONING JURISDICTION:	₩ 4275 S 0 N N N 4300 S 30	STRUCTURAL STABILITY ANALYSIS PREPARED BY A LICENSED STRUCTURAL	G-1	GROUNDING PLANS
TBD	W 4375 S Ø W 4350 S Ø W 4350 S	ENGINEER. STRUCTURAL ANALYSIS MUST INCLUDE BOTH TOWER AND MOUNT.	G-2	GROUNDING DETAILS
POWER COMPANY:	W 4400-S / NORTH	APPLICABLE CODES	G-3	GROUNDING DETAILS
PACIFICORP	69 Roy W 4400 S 60 W 4400 S	ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALL IN		
(888) 221–7070 TELCO PROVIDER:	LOCATION MAP	ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING		DRIVING DIREC
		CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK	FROM: SALT I	AKE INTERNATIONAL AIRPORT
	V 3900 S	NOT CONFORMING TO THESE CODES.	TROWN SALLE	
VERIZON WIRELESS CM:		1. INTERNATIONAL BUILDING CODE (2015 IBC)		RTH ON N TERMINAL DR TOWARD
BILLY WALDRIDGE (385) 707-7043		2. TIA-EIA-222-G OR LATEST EDITION		IT TO CONTINUE ON TERMINAL
(385) 707-7043	V 3950 S W 3950 S S	3. NFPA 780 - LIGHTNING PROTECTION CODE		LEFT 2 LANES TO TAKE THE I- DGDEN/PROVO
	V 3050-S	4. 2017 NATIONAL ELECTRIC CODE OR LATEST EDITION 5. ANY OTHER NATIONAL OR LOCAL APPLICABLE CODES,		T AT THE FORK, FOLLOW SIGNS
		MOST RECENT EDITIONS	I-80 E	
		6. UT BUILDING CODE 7. LOCAL BUILDING CODE		RIGHT 2 LANES TO TAKE EXIST
	< 0 W 4000 S	8. CITY/COUNTY ORDINANCES		ITO I-215N
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		PART OF THE NORTHWEST QUARTER OF SECTION 11, TOWNSHIP 5		ST 339 FOR UTAH 26/W RIVERD
	W 4050-S	NORTH,RANGE 2 WEST, SALT LAKE BASE & MERIDIAN, U S	10. KEEP LEF	T AT THE FORK TO CONTINUE T
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www.call811.com	52AUL STAUL STAUL	EGRESSACROSS THE NORTHWESTERLY 30 FEET.		

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ъ Exhibit I Page 2

REQUIRED FEES AND CHARGES IN CONNECTION WITH OF THIS CONTRACT. S-BUILT DRAWINGS, OPERATING AND MAINTENANCE DNS AND MANUALS.

ALL CUTTING, DRILLING, ROUGH AND FINISH OF EXISTING OR NEWLY INSTALLED CONSTRUCTION FOR THE WORK OF THIS CONTRACT. FOR SLAB

LABOR, MATERIALS, EQUIPMENT, PLANT SERVICES

TRATIVE TASKS REQUIRED TO COMPLETE AND MAKE HE ELECTRICAL WORK SHOWN ON THE DRAWINGS ED HEREIN, INCLUDING BUT NOT LIMITED TO THE

AND SUBMIT SHOP DRAWINGS, DIAGRAMS AND

ALL NECESSARY PERMITS AND APPROVALS AND

AL NOTES:

PENETRATIONS THROUGH POST TENSION SLABS, X-RAY EXACT AREA OF PENETRATION PRIOR TO PERFORMING WORK. COORDINATE ALL X-RAY WORK WITH BUILDING ENGINEER. . PROVIDE HANGERS, SUPPORTS, FOUNDATIONS, STRUCTURAL FRAMING SUPPORTS AND BASES FOR CONDUIT AND

- EQUIPMENT PROVIDED OR INSTALLED UNDER THE WORK OF HIS CONTRACT. PROVIDE COUNTER FLASHING, SLEEVES AND SEALS FOR FLOOR AND WALL PENETRATIONS F. MAINTAIN ALL EXISTING ELECTRICAL SERVICES IN THE BUILDING AREAS NOT AFFECTED BY THE ALTERATION DURING THE PROGRESS OF THE WORK INCLUDING PROVIDING ALL
- TEMPORARY JUMPERS, CONDUITS, CAPS, PROTECTIVE DEVICES, CONNECTIONS AND EQUIPMENT REQUIRED. PROVIDE TEMPORARY LIGHT AND POWER FOR CONSTRUCTION PURPOSES.

2. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO CALL FOR AN INSTALLATION THAT IS COMPLETE IN EVERY RESPECT. IT IS NOT THE INTENT TO GIVE EVERY DETAIL ON THE DRAWINGS AND IN THE SPECIFICATIONS. IF AN ITEM OF WORK IS INDICATED IN THE DRAWINGS, IT IS CONSIDERED SUFFICIENT INCLUSION IN THE CONTRACT. FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT USUALLY FURNISHED OR NEEDED TO MAKE A COMPLETE INSTALLATION WHETHER OR N SPECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS.

GENERAL REQUIREMENTS

- LI PROVIDE ALL WORK IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND LOCAL AND STATE ELECTRICAL CODES
- 2. THE ELECTRICAL PLANS ARE DIAGRAMMATIC ONLY. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT DIMENSIONS OF
- 3. LOAD CALCULATIONS ARE BASED ON EXISTING BUILDING INFORMATION/DRAWINGS PROVIDED TO ENGINEERING. CONTRACTOR IS TO VERIFY ALL EXISTING RATINGS AND LOADS PRIOR TO PURCHASING OF SPECIFIED EQUIPMENT FOR COMPLIANCE TO NEC. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES AND REQUEST FURTHER DIRECTION BY ENGINEER.
- ENGINEER. EVENTS BUILDING EQUIPMENT IS NOTED ON THE DRAWINGS. NEW OR RELOCATED EQUIPMENT IS SHOWN WITH SOUD LINES. FUTURE EQUIPMENT (NOT IN THIS CONTRACT) IS DEPICTED WITH SHADED LINES. REQUEST CLARIFICATION OF DRAWINGS OR OF SPECIFICATIONS PRIOR TO PRICING OR INSTALLATION
- A. AFTER CAREFULLY STUDYING THE DRAWINGS AND SPECIFICATIONS, AND BEFORE SUBMITTING THE PROPOSAL, MAKE A MANDATORY SITE VISIT TO ASCERTAIN CONDITIONS OF THE SITE, AND THE NATURE AND EXACT QUANTITY OF WORK TO BE PERFORMED. NO EXTRA COMPENSATION WILL BE ALLOWED FOR FAILURE TO NOTIFY THE OWNER, IN WRITING, OF ANY DISCREPANCIES THAT MAY HAVE BEEN NOTED BETWEEN THE EXISTING CONDITIONS AND THE DRAWINGS AND SPECIFICATIONS. B. VERIFY ALL MEASUREMENTS AT THE SITE AND BE

RESPONSIBLE FOR CORRECTNESS OF SAME. 6. QUALITY, WORKMANSHIP, MATERIALS AND SAFETY

- . PROVIDE NEW MATERIALS AND EQUIPMENT OF A DOMESTIC MANUFACTURER BY THOSE REGULARLY ENGAGED IN THE PRODUCTION AND MANUFACTURE OF SPECIFIED MATERIALS AND EQUIPMENT. WHERE UL, OR OTHER AGENCY, HAS ESTABLISHED STANDARDS FOR MATERIALS, PROVIDE MATERIALS WHICH ARE LISTED AND LABELED ACCORDINGLY. THE COMMERCIALLY STANDARD ITEMS OF EQUIPMENT AND THE SPECIFIC NAMES MENTIONED HEREIN ARE INTENDED FOR THE
- PROPER FUNCTIONING OF THE WORK. WORK SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE REQUIRED FOR THE WORK. INSTALL MATERIALS AND EQUIPMENT TO PRESENT A NEAT APPEARANCE WHEN COMPLETED AND IN ACCORDANCE WITH THE APPROVED RECOMMENDATIONS OF THE MANUFACTURER AND IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- PROVIDE LABOR, MATERIALS, APPARATUS AND APPLIANCES ESSENTIAL TO THE FUNCTIONING OF THE SYSTEMS DESCRIBED OR INDICATED HEREIN, OR WHICH MAY BE REASONABLY IMPLIED AS ESSENTIAL WHENEVER MENTIONED IN THE
- INFLIED AS ESSENTIAL WHENEVER MENTIONED IN THE CONTRACT DOCUMENT OR NOT. D. MAKE WRITTEN REQUESTS FOR SUPPLEMENTARY INSTRUCTIONS TO ARCHITECT/ENGINEER IN CASE OF DOUBT AS TO WORK INTENDED OR IN EVENT OF NEED FOR EXPLANATION THEREOF.
- E. PERFORMANCE AND MATERIAL REQUIREMENTS SCHEDULED OR SPECIFIED ARE MINIMUM STANDARD ACCEPTABLE. THE RIGHT TO JUDGE THE QUALITY OF EQUIPMENT THAT DEVIATES FROM THE CONTRACT DOCUMENT REMAINS SOLELY WITH ARCHITECT/ENGINEER. CONTRACT DOCUMENT OR NOT.
- **IARANTEE** GUARANTEE MATERIALS, PARTS AND LABOR FOR WORK FOR ONE YEAR FROM THE DATE OF ISSUANCE OF OCCUPANCY PERMIT. DURING THAT PERIOD, MAKE GOOD FAULTS OR IMPERFECTIONS THAT MAY ARISE DUE TO DEFECTS OR OMISSIONS IN MATERIALS OR WORKMANSHIP WITH NO ADDITIONAL COMPENSATION AND AS DIRECTED BY ARCHITECT.

CLEANING

1. REMOVE ALL CONSTRUCTION DEBRIS RESULTING FROM THE WORK

2. CLEAN EQUIPMENT AND SYSTEMS FOLLOWING THE COMPLETION OF THE PROJECT TO THE SATISFACTION OF THE ENGINEER.

COORDINATION AND SUPERVISION UNDITION TO A OUT ALL WORK IN ADVANCE TO AVOID UNNECESSARY CUTTING, CHANNELING, CHASING OR DRILLING OF FLOORS, WALLS, PARTITIONS, CEILINGS OR OTHER SURFACES. SUCH WORK IS NECESSARY, HOWEVER, PATCH AND REPAIR THE WORK IN AN APPROVED MANNER BY SKILLED AECHANICS AT NO ADDITIONAL COST TO THE OWNER. RENDER FULL COOPERATION TO OTHER TRADES WHERE WORK WILL BE INSTALLED IN CLOSE PROXIMITY TO WORK OF OTHER TRADES. ASSIST IN WORKING OUT SPACE CONDITIONS. IF WORK IS INSTALLED BEFORE COORDINATION WITH OTHER TRADES, OR CAUSES INTERFERENCE, MAKE CHANGES NECESSARY TO CORRECT CONDITIONS WITHOUT EXTRA CHARGE.

SUBMITTALS

- 1. AS-BUILT DRAWINGS: A. UPON COMPLETION OF THE WORK, FURNISH TO THE OWNER "AS-BUILT" DRAWINGS.
- 2. SERVICE MANUALS:
- A. UPON COMPLETION OF THE WORK, FULLY INSTRUCT VERIZON AS TO THE OPERATION AND MAINTENANCE OF ALL MATERIAL. EQUIPMENT AND SYSTEMS. B. PROVIDE 3 COMPLETE BOUND SETS OF INSTRUCTIONS FOR
- OPERATING AND MAINTAINING ALL SYSTEMS AND EQUIPMENT. CUTTING AND PATCHING
- 1. PROVIDE ALL CUTTING, DRILLING, ROUGH AND FINISH PATCHING
- REQUIRED TO COMPLETE THE WORK. . OBTAIN OWNER APPROVAL PRIOR TO CUTTING THROUGH FLOORS OR WALLS FOR PIPING OR CONDUIT.

TESTS, INSPECTION AND APPROVAL

- . BEFORE ENERGIZING ANY ELECTRICAL INSTALLATION, INSPECT EACH UNIT IN DETAIL. TIGHTEN ALL BOLTS AND CONNECTIONS (TORQUE-TIGHTEN WHERE REQUIRED) AND DETERMINE THAT ALL COMPONENTS ARE ALIGNED, AND THE EQUIPMENT IS IN SAFE, OPERATIONAL CONDITION.
- 2. PROVIDE THE COMPLETE ELECTRICAL SYSTEM FREE OF GROUND FAULTS AND SHORT CIRCUITS SUCH THAT THE SYSTEM WILL OPERATE SATISFACTORILY UNDER FULL LOAD CONDITIONS, WITHOUT EXCESSIVE HEATING AT ANY POINT IN THE SYSTEM

SPECIAL REQUIREMENTS

- 1. DO NOT LEAVE ANY WORK INCOMPLETE NOR ANY HAZARDOUS SITUATIONS CREATED WHICH WILL AFFECT THE LIFE OR SAFETY THE PUBLIC AND/OR BUILDING OCCUPANTS. DO NOT INTERFERE WITH OR CUTOFF ANY OF THE EXISTING SERVICES
- WITHOUT THE OWNER'S WRITTEN PERMISSION. 2. WHEN NECESSARY TO TEMPORARILY DISCONNECT ANY EXISTING BUILDING UTILITIES AND SERVICE SYSTEMS, INCLUDING FEEDER OR BRANCH CIRCUITING SUPPLYING EXISTING FACILITIES,
- CONFER WITH THE OWNER AND ARRANGE THE PERIOD OF INTERRUPTION FOR A TIME MUTUALLY AGREED UPON. SHUTDOWN NOTE: SCHEDULE AND NOTIFY OWNER 48 HOURS PRIOR TO SHUTDOWN. ALL SHUTDOWN WORK TO BE SCHEDULED AT A TIME CONVENIENT TO OWNER.

GROUNDING

- I. ROUTE ALL GROUNDING CONDUCTORS AS SHOWN ON
- CONDUIT/GROUNDING RISER. LOCATION TO BUILDING STEEL. VERIFY BUILDING STEEL IS
- EFFECTIVELY GROUNDED PER NEC TO THE MAIN SERVICE GROUNDING ELECTRODE CONDUCTOR (GEC). 3. MAKE ALL GROUND CONNECTIONS FROM MGB TO ELECTRICAL
- EQUIPMENT WITH 2 HOLE, CRIMP TYPE, BURNDY COMPRESSION TERMINATIONS, SIZED AS REQUIRED. 4. USE 1 HOLE, CRIMP TYPE, BURNDY COMPRESSIONS
- TERMINATIONS, SIZED AS REQUIRED, AT EQUIPMENT GROUND CONNECTIONS 5. HIRE AN INDEPENDENT LAB TO PERFORM THE SPECIFIED OHMS
- TESTING, PROVIDE 4 SETS OF THE CERTIFIED DOCUMENTS TO THE OWNER FOR VERIFICATION PRIOR TO THE PROJECT COMPLETION. RACEWAYS
- ALL WIRING TO BE INSTALLED IN CONDUIT SYSTEMS IN ACCORDANCE WITH THE FOLLOWING:
- A. EXTERIOR FEEDERS AND CONTROL, WHERE UNDERGROUND, TO BE IN SCH 40 PVC. B. EXTERIOR, ABOVE GROUND POWER CONDUITS TO BE
- GALVANIZED RIGID STEEL (RGS). C. ALL TELECOMMUNICATION CONDUITS, INTERIOR/EXTERIOR, TO
- ON THIS PROJECT.
- E. ALL TELECOM CONDUITS AND PULL BOXES INSTALLED ON THIS PROJECT TO BE LABELED "VERIZON". OWNER WILL
- PROVIDE LABELS FOR CONTRACTOR TO INSTALL. F. INTERIOR FEEDERS TO BE INSTALLED IN E.M.T. WITH STEEL
- COMPRESSION FITTINGS. G. MINIMUM SIZE CONDUIT TO BE $\frac{3}{2}$ " TRADE SIZE UNLESS OTHERWISE INDICATED ON THE DRAWINGS. H. FINAL CONNECTIONS TO MOTORS AND VIBRATING EQUIPMENT TO BE INSTALLED IN LIQUID-TIGHT FLEXIBLE METAL CONDUIT.
- AREAS OR DRYWALL PARTITIONS, UNLESS OTHERWISE NOTED. J. THE ROUTING OF CONDUITS INDICATED ON THE DRAWINGS IS DIAGRAMMATIC. BEFORE INSTALLING ANY WORK, EXAMINE THE WORKING LAYOUTS AND SHOP DRAWINGS OF THE OTHER TRADES TO DETERMINE THE EXACT LOCATIONS AND
- CLEARANCES. K. ALL EXTERIOR MOUNTING HARDWARE TO BE GALVANIZED STEEL. COORDINATE WITH BUILDING ENGINEER PRIOR TO ATTACHING TO BUILDING STRUCTURE.

RACEWAYS CONT'D

- L. PENETRATIONS OF WALLS, FLOORS AND ROOFS, FOR THE PASSAGE OF ELECTRICAL RACEWAYS. TO BE PROPERLY SEALED AFTER INSTALLATION OF RACEWAYS SO AS MAINTAIN THE STRUCTURAL OR WATERPROOF INTEGRITY OF THE WALL, FLOOR OR ROOF SYSTEM TO BE PENETRATED. SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE OR SMOKE ATED WALLS, CEILINGS OR SMOKE TIGHT COR PARTITIONS TO MAINTAIN PROPER RATING OF WALL OR
- M. PROVIDE ALL CONDUIT ENDS WITH INSULATED METALLIC
- GROUNDING BUSHINGS. N. CONDUIT TO BE SUPPORTED AT MAXIMUM DISTANCE OF 3-0", OR AS REQUIRED BY NEC, IN HORIZONTAL AND VERTICAL DIRECTIONS.
- O. PROVIDE STAINLESS STEEL BLANK COVER PLATES FOR ALL JUNCTION BOXES AND/OR OUTLET BOXES NOT USED IN EXPOSED AREAS. PROVIDE ALL OTHER UNUSED BOXES WITH STANDARD STEEL COVER PLATES. P. WHERE APPLICABLE, PROVIDE ROOFTOP CONDUIT SUPPORT
- SYSTEM, CONFORMING TO ROOFTOP WARRANTY REQUIREMENTS, PER BUILDING

WIRES AND CABLES

- . CONTRACTOR TO COORDINATE WITH EQUIPMENT SUPPLIER AND VENDOR FOR EXACT FOUIPMENT OVER-CURRENT PROTECTION VOLTAGE, WIRE SIZE AND PLUG CONFIGURATION, IF APPLICABLE, Prior to Bid
- 2. ALL EQUIPMENT/DEVICES TO BE PROVIDED WITH INSULATED
- GROUND CONDUCTOR. 3. ALL WRE AND CABLE TO BE 600VOLT. COPPER. WITH THWN/ THHN INSULATION, EXCEPT AS NOTED.
- 4. WRE FOR POWER AND LIGHTING WILL NOT BE LESS THAN NO. 12AWG. ALL WRE NO. 8 AND LARGER TO BE STRANDED. 5. CONTROL WIRING IS NOT TO BE LESS THAN NO. 14AWG,
- FLEXIBLE IN SINGLE CONDUCTORS OR MULTI-CONDUCTOR CABLES. CONTROL WIRING WILL CONSIST OF MULTI-CONDUCTOR CABLES WHEREVER POSSIBLE. CABLES TO BE PROVIDED WITH AN OVERALL FLAME-RETARDANT, EXTRUDED JACKET AND RATED FOR PLENUM USE. ALL CONTROL WIRE TO BE 600VOLT RATED. WIRE PREVIOUSLY PULLED INTO CONDUIT IS CONSIDERED USED
- AND IS NOT TO BE RE-PULLED. 7. HOME RUNS AND BRANCH CIRCUIT WIRING FOR 20A, 120V

CIRCUITS:	
<u>LENGTH (FT.)</u>	HOME RUN WIRE SIZE
0 TO 50	NO. 12
51 TO 100	NO. 10
101 TO 150	NO. 8

3.	VOLTAC	ЭEС	ROP	IS NO	T TO	EXCEED) 3%.			
).	MAKE	ALL	CONN	IECTIO	NS W	ITH UL	APPROV	ÆD, S	OLDERLI	ESS,
	DDECCII	DE	TYDE	INCLU	ATED	CONNE	OTOPC.	SCOT	יאסוורי	np /

LOK OR AND APPROVED EQUAL. WIRING DEVICES 1. ALL RECEPTACLES INSTALLED IN THIS PROJECT TO BE

GROUNDING TYPE, WITH GROUNDING PIN SLOT CONNECTED TO DEVICE GROUND SCREW FOR GROUND WRE CONNECTION.

- DISCONNECT SWITCHES AND FUSES 1. DISCONNECT SWITCHES TO BE VOLTAGE-RATED TO SUIT THE CHARACTERISTICS OF THE SYSTEM FROM WHICH THEY ARE SUPPLIED
- 2. PROVIDE HEAVY-DUTY. METAL-ENCLOSED. EXTERNALLY-OPERATED PROVIDE HEAVY-DUIT, METAL-ENGLOSED, EXTENDATED - DISCONNECT SWITCHES, FUSED OR UNFUSED, OF SUCH TYPE AND SIZE AS REQUIRED TO PROPERLY PROTECT OR DISCONNECT
- THE LOAD FOR WHICH THEY ARE INTENDED. 3. PROVIDE NEMA 1 DISCONNECT SWITCHES FOR INTERIOR
- INSTALLATION, NEMA 3R FOR EXTERIOR INSTALLATION. 4. DISCONNECT SWITCHES TO BE MANUFACTURED BY:
- . GENERAL ELECTRIC COMPANY
- B. SQUARE-D 5. PROVIDE RK-1 TYPE FUSES, UNLESS NOTED OTHERWISE. INSTALLATION
- 1. INSTALL DISCONNECT SWITCHES WHERE INDICATED ON
- 2. INSTALL FUSES IN FUSIBLE DISCONNECT SWITCHES, FUSES
- MUST MATCH IN TYPE AND RATING. 3. FUSES TO BE MOUNTED SO THAT THE LABELS SHOWING THEIR
- RATINGS CAN BE READ WITHOUT REQUIRING FUSE REMOVAL. 4. FURNISH AND DEPOSIT SPARE FUSES AT THE JOB SITE AS
- FOLLOWS: A. THREE SPARES FOR EACH TYPE AND SIZE, IN EXCESS OF
- 60A, USED FOR INITIAL FUSING. B. TEN PERCENT SPARES FOR EACH TYPE AND SIZE, UP TO
- AND INCLUDING 60A, USED FOR INITIAL FUSING, IN NO CASE WILL LESS THAN THREE FUSES OF ONE PARTICULAR TYPE AND SIZE BE FURNISHED. CONFLICTS
- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATIONS OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONTROLOGY OF A DOMENSION AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRAWINGS. ANY SUCH DISCREPANCY IN DIMENSION WHICH MAY BE FOUND SHALL BE SUBMITTED OWNER FOR CONSIDERATION BEFORE THE CONTRACTOR SUBMITTED TO THE PROCEEDS WITH THE WORK IN THE AFFECTED AREAS. 2. THE BIDDER, IF AWARDED THE CONTRACT, WILL NOT BE
- ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER OR THING CONCERNING SUCH BIDDER MIGHT HAVE
- FULLY INFORMED THEMSELVES PRIOR TO THE BIDDING. NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR OF DIFFICULTIES OR CONDITIONS THAT MAY BE ENCOUNTERED. OR ANY OTHER RELEVANT MATTER CONCERNING THE WORK TO BE PERFORMED IN THE EXECUTION OF THE WORK WILL BE ACCEPTED AS AN EXCUSE FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL EVERY DETAIL OF ALL THE REQUIREMENTS OF THE CONTRACT DOCUMENTS GOVERNING THE WORK.

CONTRACTS AND WARRANTIES

- 1. CONTRACTOR IS RESPONSIBLE FOR APPLICATION AND PAYMENT OF CONTRACTOR LICENSES AND BONDS. 2. SEE MASTER CONTRACTION SERVICES AGREEMENT FOR
- ADDITIONAL DETAILS.
- STORAGE

1. ALL MATERIALS MUST BE STORED IN A LEVEL AND DRY FASHION AND IN A MANNER THAT DOES NOT NECESSARILY OBSTRUCT THE FLOW OF OTHER WORK. ANY STORAGE METHOD MUST MEET ALL RECOMMENDATIONS OF THE ASSOCIATED MANUFACTURER.

ALL POLICIES.

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CHANGE ORDER

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CLEANUP

3 INTERIOR

ADJACENT SURFACES.

SERVICE AGREEMENT FOR MCSA.

FINISHED SURFACES.

CHANGE ORDER PROCEDURE:

APPROVAL.

PRODUCTS AND SUBSTITUTIONS

OWNER

SHEETS.

QUALITY ASSURANCE

ADMINISTRATION

SUBCONTRACTED).

- 1. THE CONTRACTORS SHALL, AT ALL TIMES, KEEP THE SITE FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH COMPLETION OF THE REMPLOYEES AT WORK AND AT THE COMPLETION OF THE WORK. THEY SHALL REMOVE ALL RUBBISH FROM AND ABOUT THE BUILDING AREA, INCLUDING ALL THEIR TOOLS, SCAFFOLDING AND SURPLUS MATERIALS AND SHALL LEAVE THEIR WORK CLEAN AND READY TO USE. 2. EXTERIOR
- A. VISUALLY INSPECT EXTERIOR SURFACES AND REMOVE ALL TRACES OF SOIL, WASTE MATERIALS, SMUDGES AND OTHER FOREIGN MATTER.

C. IF NECESSARY, TO ACHIEVE A UNIFORM DEGREE OF CLEANLINESS, HOSE DOWN THE EXTERIOR OF THE STRUCTURE.

TRACES OF SOIL, WASTE MATERIALS, SMUDGES AND OTHER FOREIGN MATTER FROM WALLS, FLOOR, AND CEILING.

C. REMOVE PAINT DROPPINGS, SPOTS, STAINS, AND DIRT FROM

1. REFER TO SECTION 17 OF SIGNED MCSA: SEE PROFESSIONAL

RELATED DOCUMENTS AND COORDINATION 1. GENERAL CARPENTRY, ELECTRICAL AND ANTENNA DRAWINGS ARE

TO BE THE RESPONSIBILITY OF THE CONTRACTOR

LISTED IN THESE SPECIFICATIONS TO THE OWNER FOR

2. ALL SHOP DRAWINGS SHALL BE REVIEWED, CHECKED AND CORRECTED BY CONTRACTOR PRIOR TO SUBMITTAL TO THE

1. SUBMIT 3 COPIES OF EACH REQUEST FOR SUBSTITUTION. IN

INCLUDE RELATED SPECIFICATION SECTION AND DRAWING

COMPLIANCE WITH THE REQUIREMENTS FOR SUBSTITUTIONS

2. SUBMIT ALL NECESSARY PRODUCT DATA AND CUT SHEETS WHICH PROPERLY INDICATE AND DESCRIBE THE ITEMS.

SAMPLES TO THE OWNER FOR APPROVAL IN LIEU OF CUT

LOCAL GOVERNING BODY. SEE "CODE COMPLIANCE" T-1.

PRODUCTS AND MATERIALS BEING INSTALLED. THE CONTRACTOR

SHALL, IF DEEMED NECESSARY BY THE OWNER, SUBMIT ACTUAL

. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. THESE SHALL INCLUDE, BUT

1 BEFORE THE COMMENCEMENT OF ANY WORK THE CONTRACTOR

POINT OF CONTACT FOR ALL PERSONNEL INVOLVED IN THIS

PROJECT. THIS PROJECT MANAGER WILL DEVELOP A MASTER

SCHEDULE FOR THE PROJECT WHICH WILL BE SUBMITTED TO

DAYS AFTER THE DATE ESTABLISHED FOR COMMENCEMENT OF THE WORK ON THE SCHEDULE, INDICATING A TIME BAR FOR EACH MAJOR CATEGORY OR UNIT OF WORK TO BE PERFORMED

AT THE SITE, PROPERLY SEQUENCED AND COORDINATED WITH

OTHER ELEMENTS OF WORK AND SHOWING COMPLETION OF THE WORK SUFFICIENTLY IN ADVANCE OF THE DATE ESTABLISHED

PRIOR TO COMMENCING CONSTRUCTION, THE OWNER SHALL SCHEDULE AN ON-SITE MEETING WITH ALL MAJOR PARTIES. THIS

WOULD INCLUDE, BUT NOT LIMITED TO, THE OWNER, PROJECT MANAGER, CONTRACTOR, LAND OWNER REPRESENTATIVE, LOCAL

CONSTANT COMMUNICATIONS, SUCH AS A MOBILE PHONE OR A BEEPER. THIS EQUIPMENT WILL NOT BE SUPPLIED BY THE

EMPLOYEES AND SUBCONTRACTORS WEAR HARD HATS AT ALL TIMES. CONTRACTOR WILL COMPLY WITH ALL WPCS SAFETY

REQUIREMENTS IN THEIR AGREEMENT. 6. PROVIDE WRITTEN DAILY UPDATES ON SITE PROGRESS TO THE

7. COMPLETE INVENTORY OF CONSTRUCTION MATERIALS AND

EQUIPMENT IS REQUIRED PRIOR TO START OF CONSTRUCTION. 8. NOTIFY THE OWNER/PROJECT MANAGER IN WRITING NO LESS

THAN 48 HOURS IN ADVANCE OF CONCRETE POURS, TOWER ERECTIONS, AND EQUIPMENT CABINET PLACEMENTS.

TELEPHONE COMPANY, TOWER ERECTION FOREMAN (IF

4. CONTRACTOR SHALL BE EQUIPPED WITH SOME MEANS OF

OWNER, NOR WILL WIRELESS SERVICE BE ARRANGED. 5. DURING CONSTRUCTION. CONTRACTOR MUST ENSURE THAT

FOR SUBSTANTIAL COMPLETION OF THE WORK

THE OWNER PRIOR TO THE COMMENCEMENT OF ANY WORK. 2. SUBMIT A BAR TYPE PROGRESS CHART, NOT MORE THAN 3

WILL ASSIGN A PROJECT MANAGER WHO WILL ACT AS A SINGLE

NOT BE LIMITED TO THE APPLICABLE CODES SET FORTH BY THE

NUMBERS AND COMPLETE DOCUMENTATION SHOWING

EACH REQUEST, IDENTIFY THE PRODUCT OR FABRICATION OR INSTALLATION METHOD TO BE REPLACED BY THE SUBSTITUTION

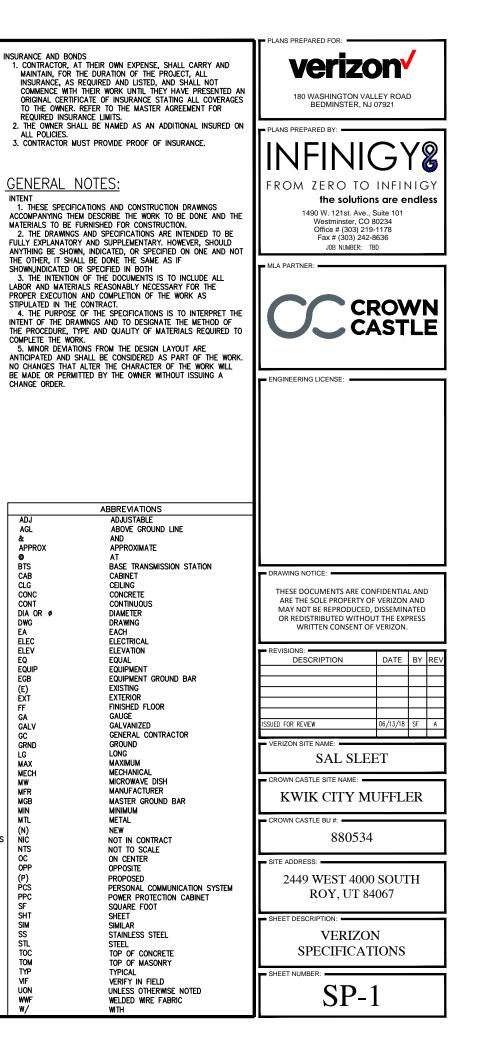
INTERRELATED. IN PERFORMANCE OF THE WORK, THE CONTRACTOR MUST REFER TO ALL DRAWINGS. ALL COORDINATION

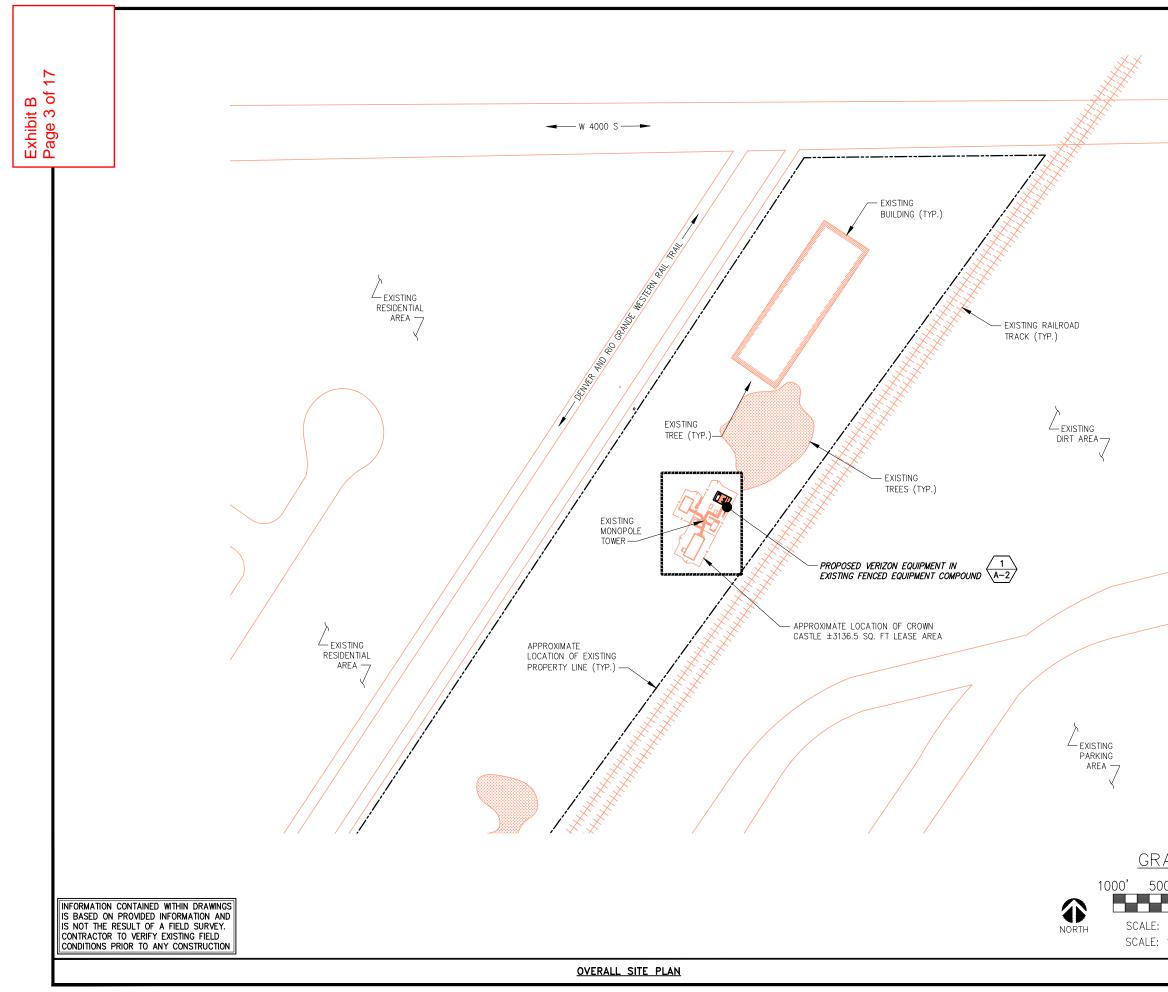
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AS REQUIRED AND

B. REMOVE ALL TRACES OF SPLASHED MATERIALS FROM ADJACENT SURFACES.

A. VISUALLY INSPECT INTERIOR SURFACE AND REMOVE AL

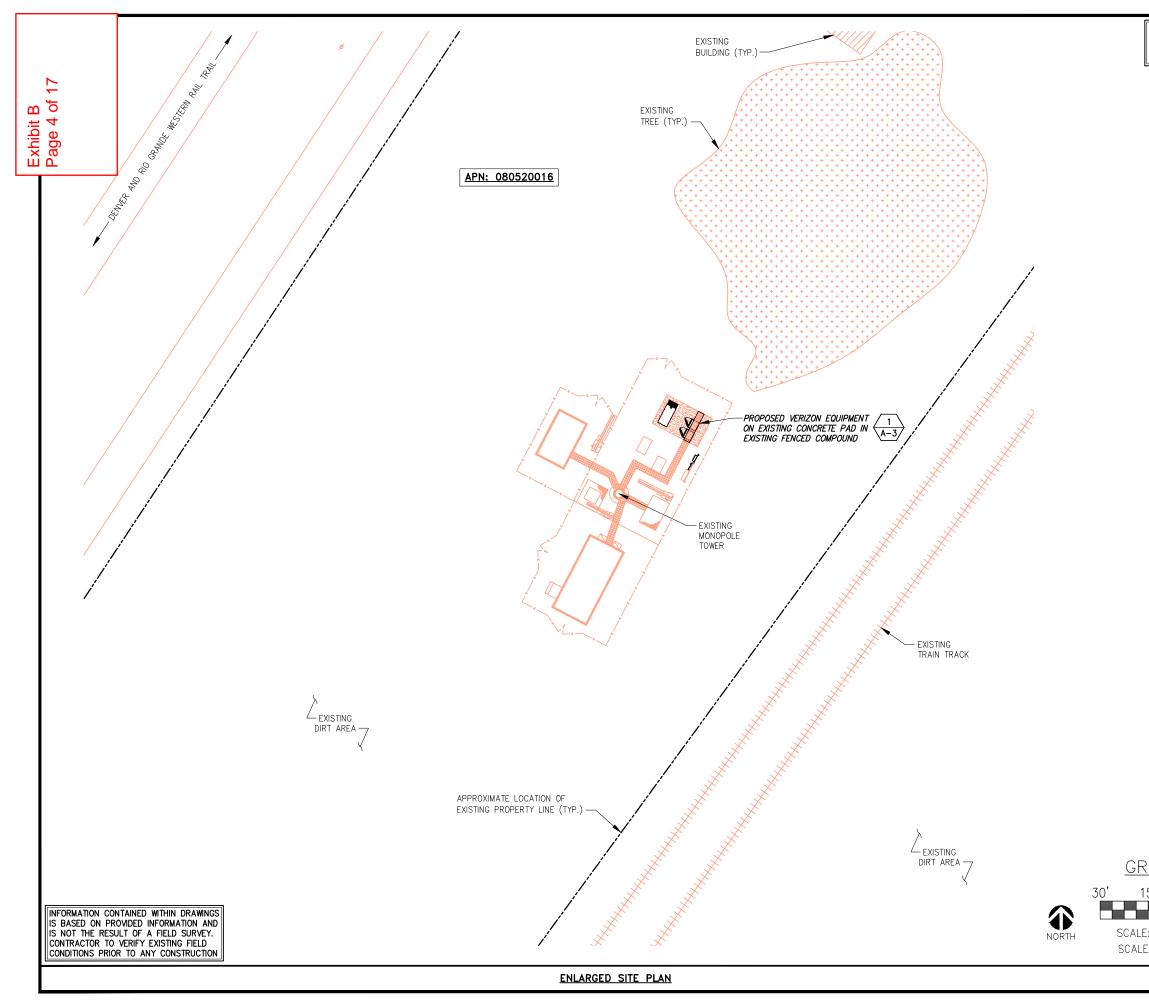
B. REMOVE ALL TRACES OF SPLASHED MATERIALS FROM



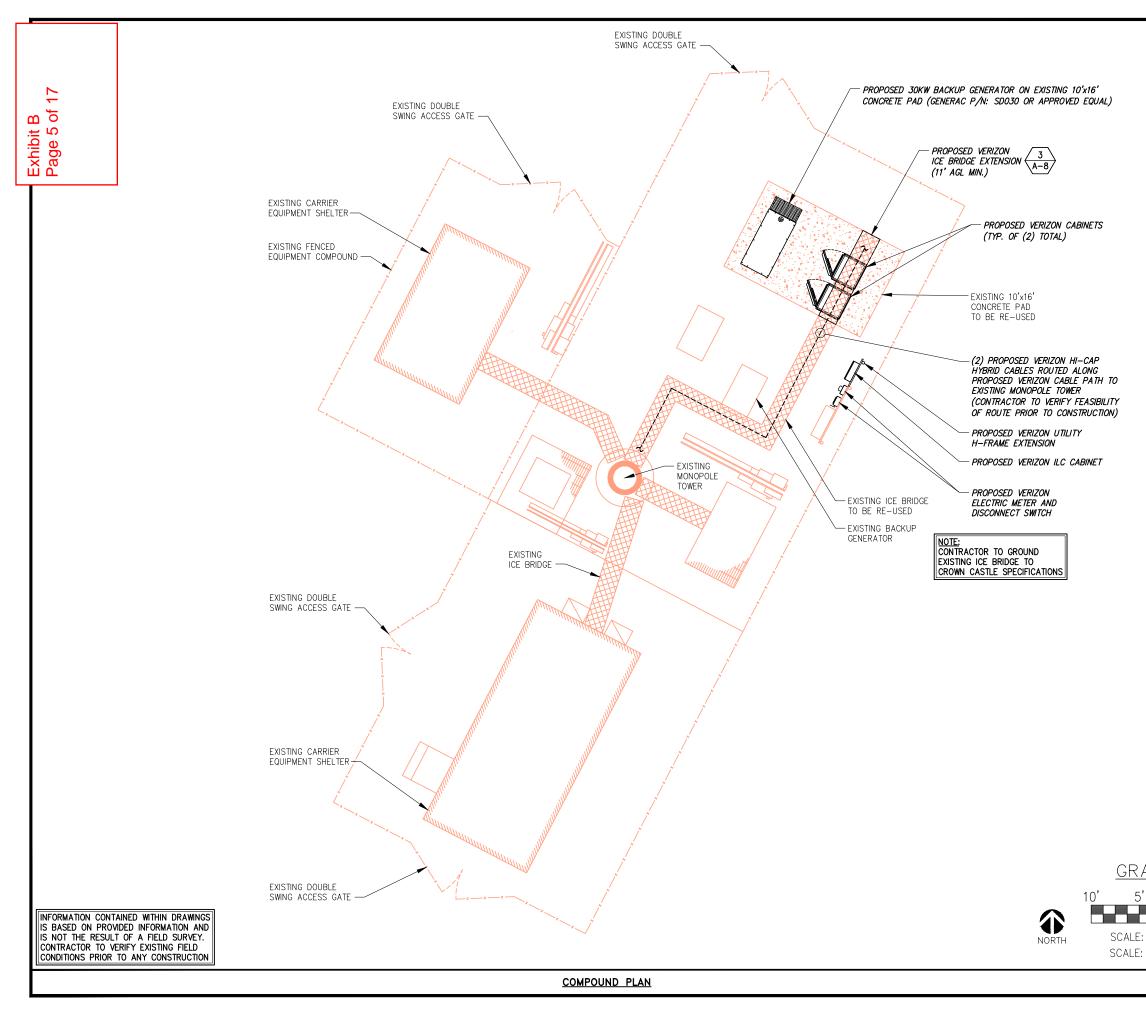


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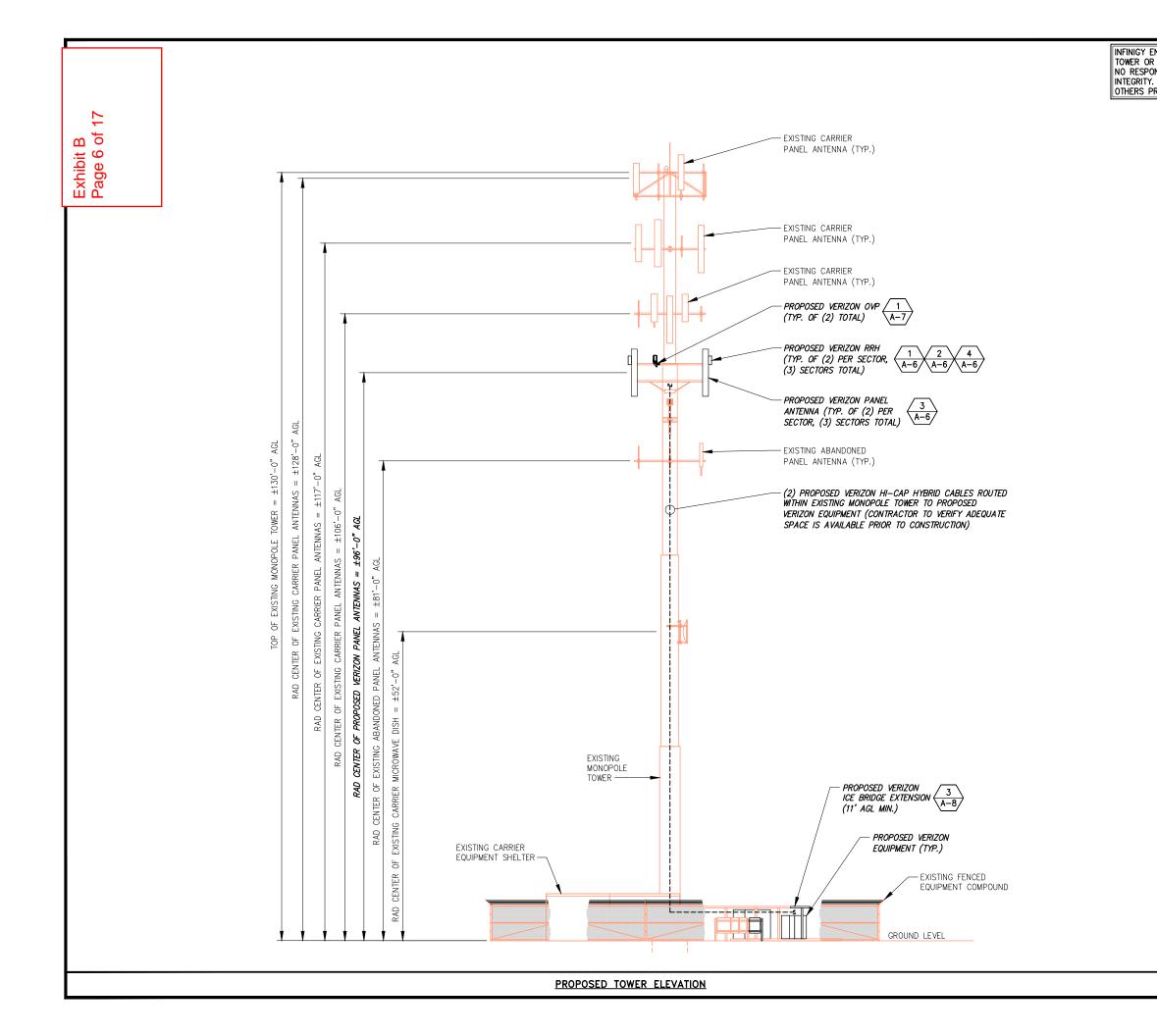
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180 WASHINGTON VALLEY ROAD BEDMINSTER, NJ 07921 PLANS PREPARED BY: INFINICY FROM ZERO TO INFINICY the solutions are endless 1490 W. 121st. Ave., Suite 101 Westminster, CO 80234 Office # (303) 219-1178 Fax # (303) 242-8636 JOB NUMBER: TBD MLA PARTNER: MLA PARTNER:
INFINICY FROM ZERO TO INFINICY the solutions are endless 1490 W. 121st. Ave., Suite 101 Westminster, CO 80234 Office # (303) 242-8636 JOB NUMBER: TBD MLA PARTNER: MLA PARTNER:
FROM ZERO TO INFINICY the solutions are endless 1490 W. 121st. Ave., Suite 101 Westminster, CO 80234 Office # (303) 242-8636 JOB NUMBER: TBD MLA PARTNER: MLA PARTNER:
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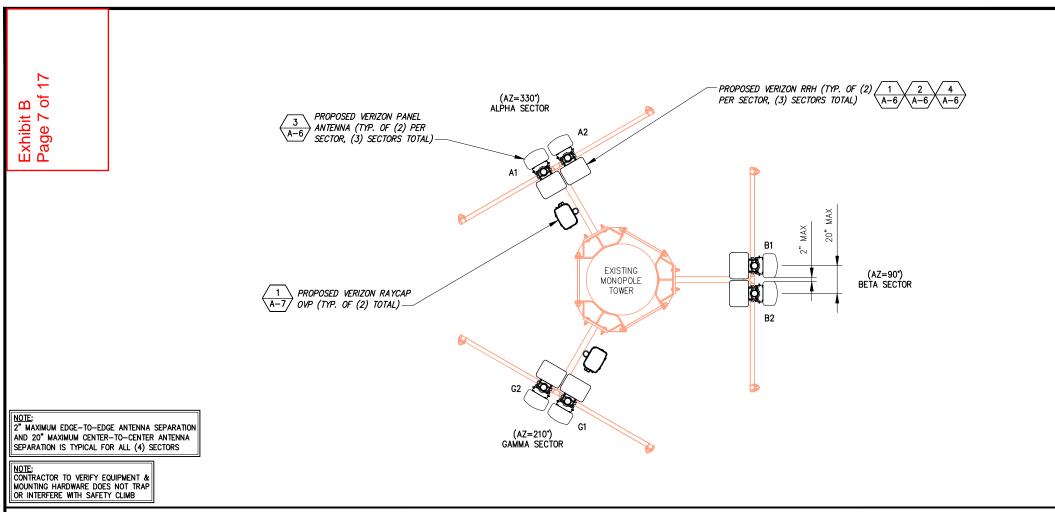


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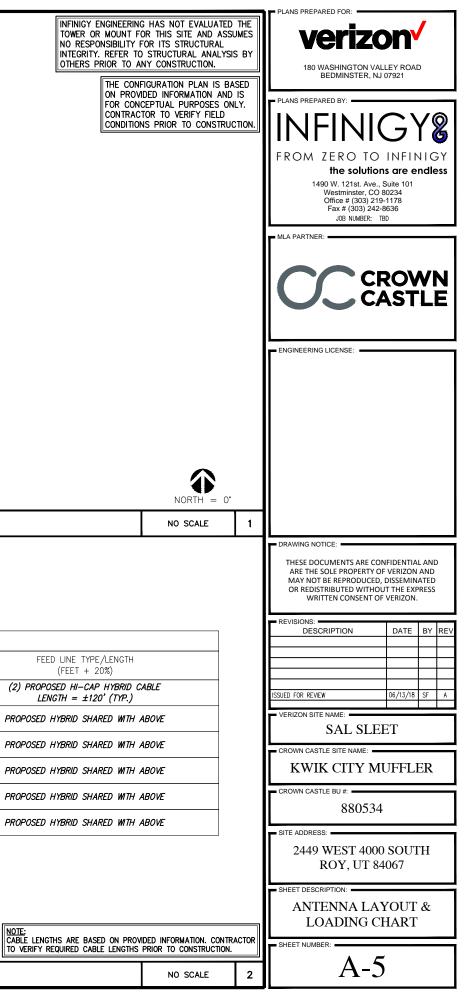
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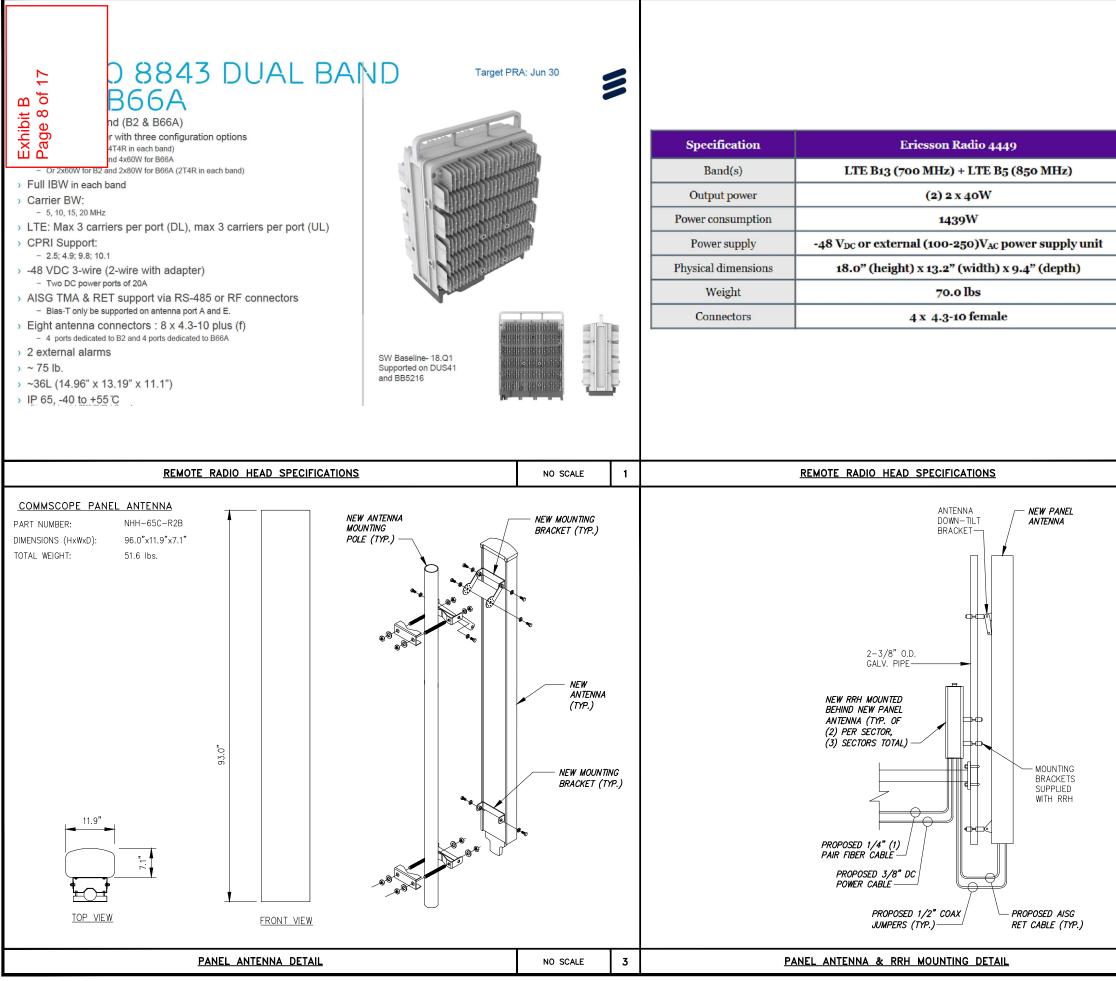
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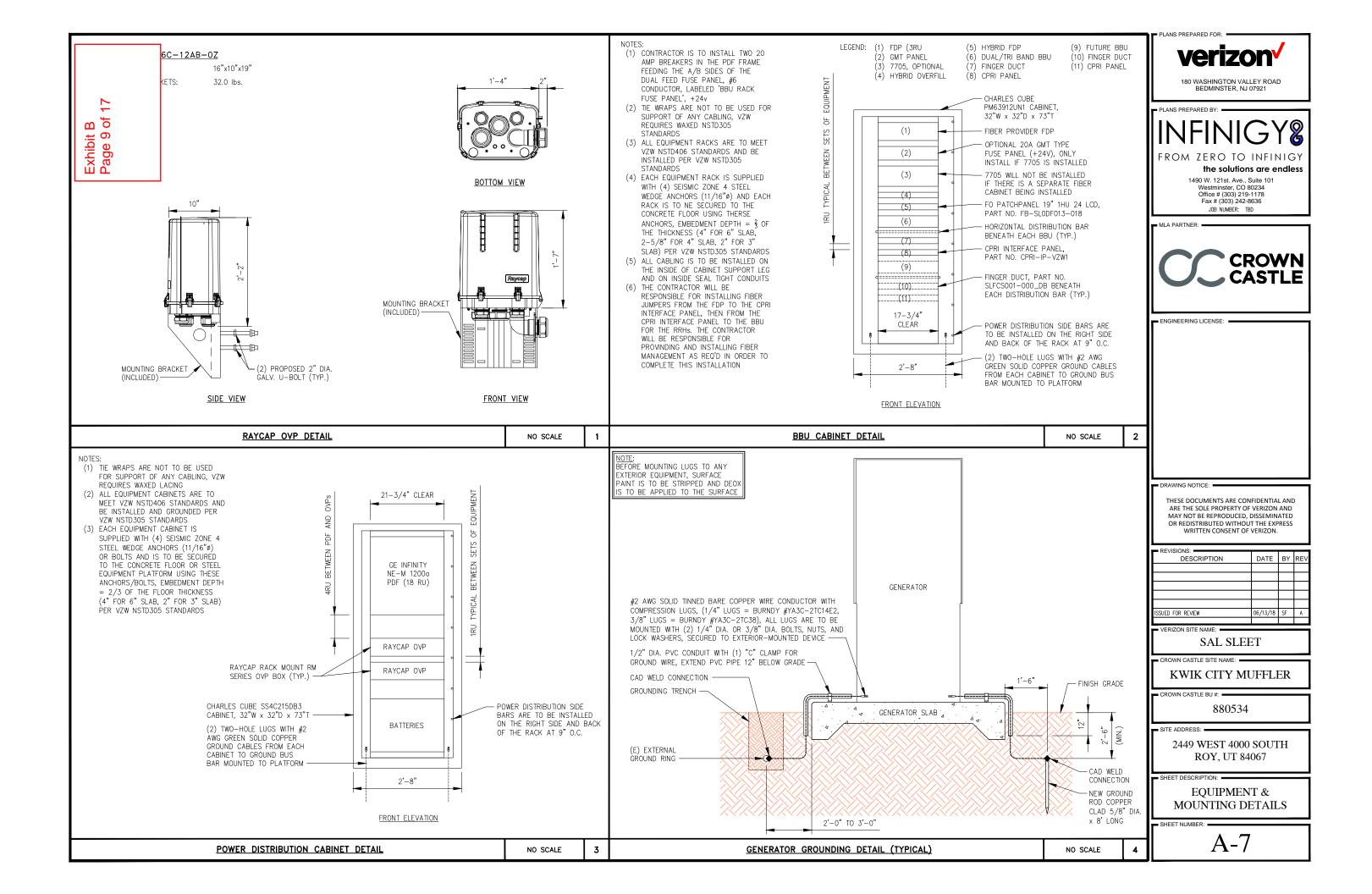
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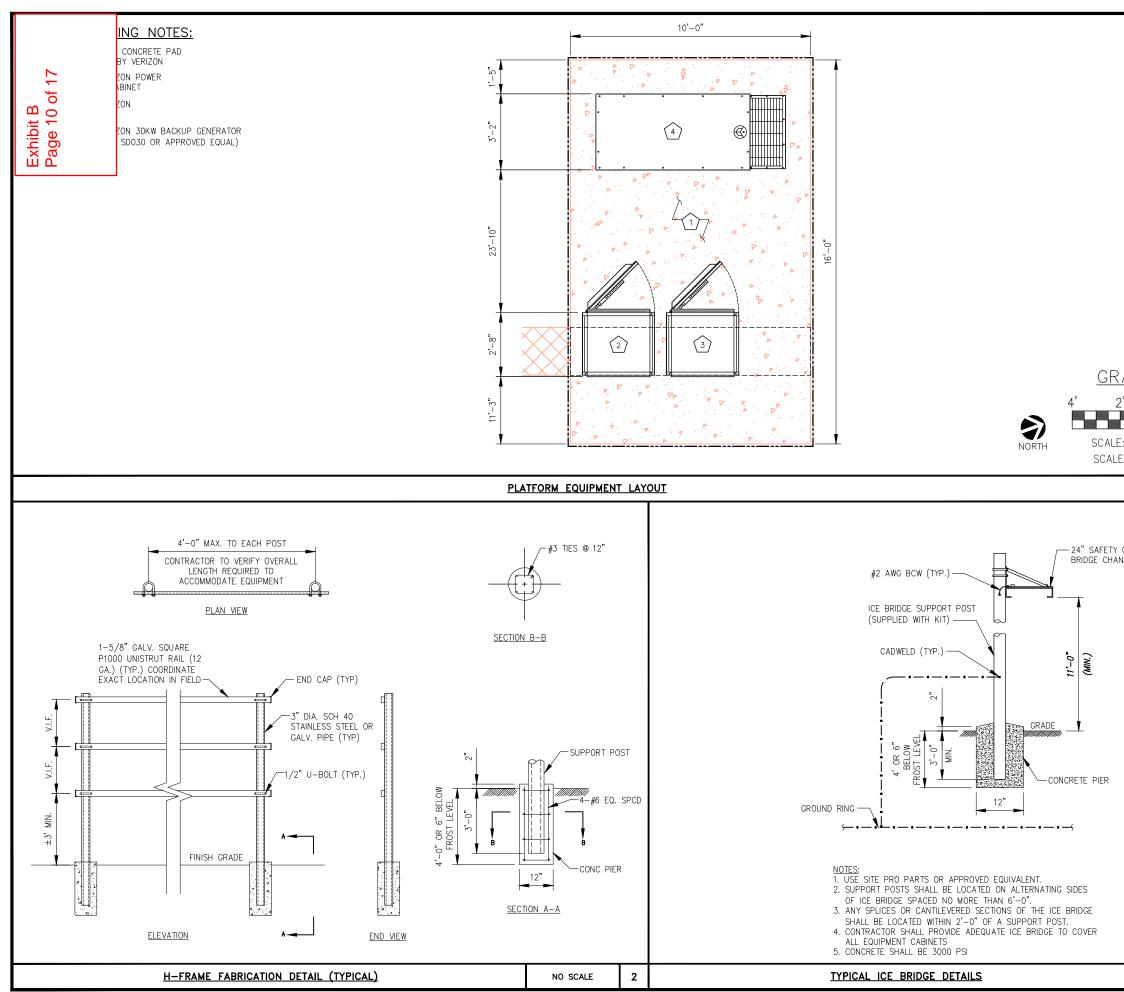
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ALPHA	A2	RED	L1900/L2100	NHH-65C-R2B	COMMSCOPE		1	1/RRH 4449	330*	2*	6*	±96' AGL	PROPOSED HYBRID SHAI
BETA	B1	BLUE	L700/L850	NHH-65C-R2B	COMMSCOPE		1	1/RRH 8843	90*	1.	8.	±96' AGL	PROPOSED HYBRID SHA
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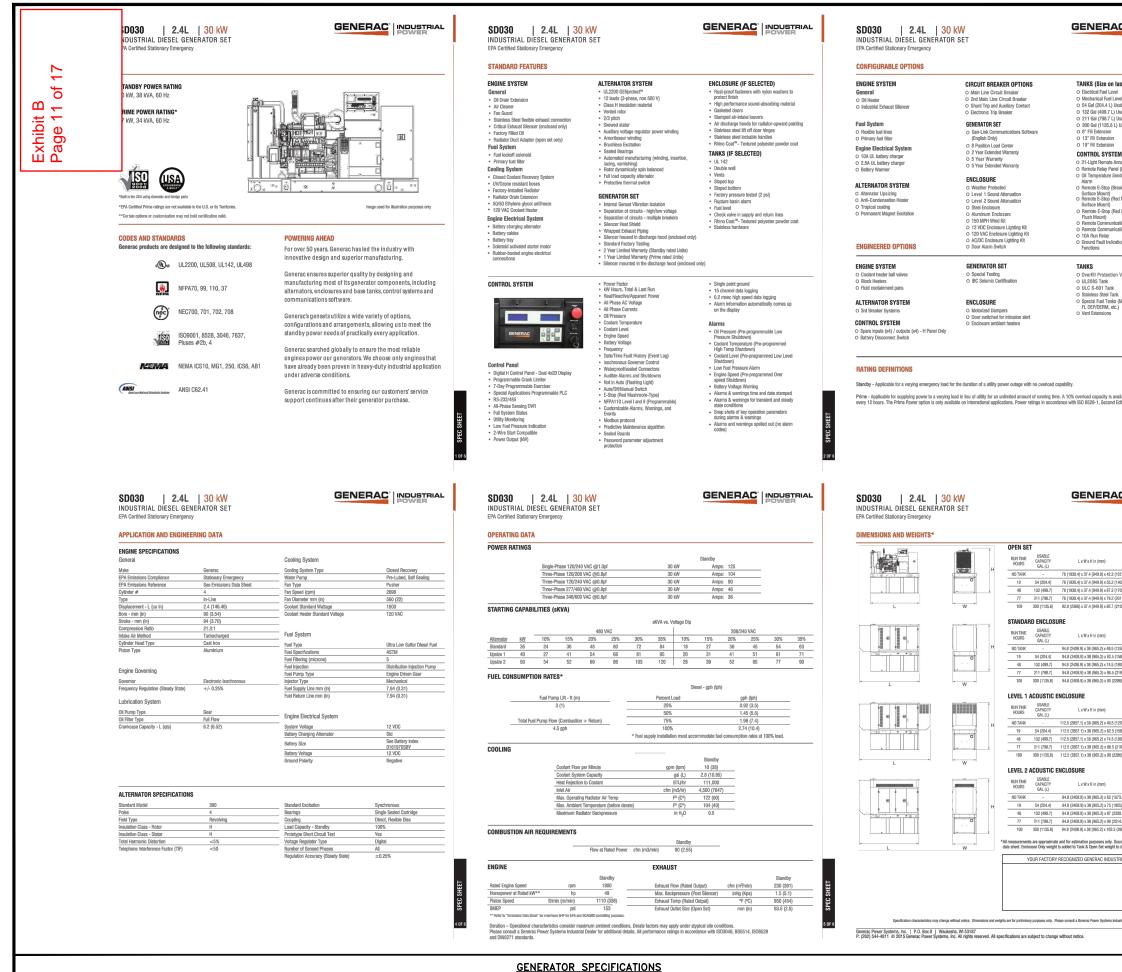


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CTRICAL NOTES:

WORK SHALL BE IN ACCORDANCE WITH THE OF THE NATIONAL ELECTRICAL CODE AND STATE CODES, LAWS, AND ORDINANCES. D CONDUIT SHALL BE PVC SCHEDULE 40 SE INDICATED. SUPPLY UTILITY MARKING

BELOW GRADE ALONG ENTIRE LENGTH OF ONDUITS

SHALL BE COPPER WITH THHN/THWN TROL CONDUCTORS SHALL BE STRANDED. G CONDUCTORS SHALL BE SOLID FOR #10 RS AND STRANDED FOR ALL OTHER SIZES.

- 4. ELECTRICAL DRAWINGS ARE IN PART DIAGRAMMATIC. COORDINATE ELECTRICAL WORK WITH SITE CONDITIONS.
- 5. LOCATE ALL UNDERGROUND UTILITIES BEFORE TRENCHING. IF CONFLICTS ARISE, CONTACT UTILITY COMPANY AND ENGINEER IMMEDIATELY.
- 6. ALL EXPOSED CONDUITS SHALL HAVE WEATHERPROOF CAPS, NOT DUCT TAPE.
- 7. PROVIDE 200 LB TEST PULL WIRES IN EACH TELEPHONE AND POWER CONDUIT.
- 8. PULL BOXES SHALL BE INSTALLED AS NEEDED PER NEC UTILITY REQUIREMENTS.

CODED DRAWING NOTES:

(1)EXISTING UTILITY POLE

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Exhibi Page

xhibit <u>___</u>

(2)PROPOSED TRAFFIC-RATED FIBER VAULT (LOCATION TBD)

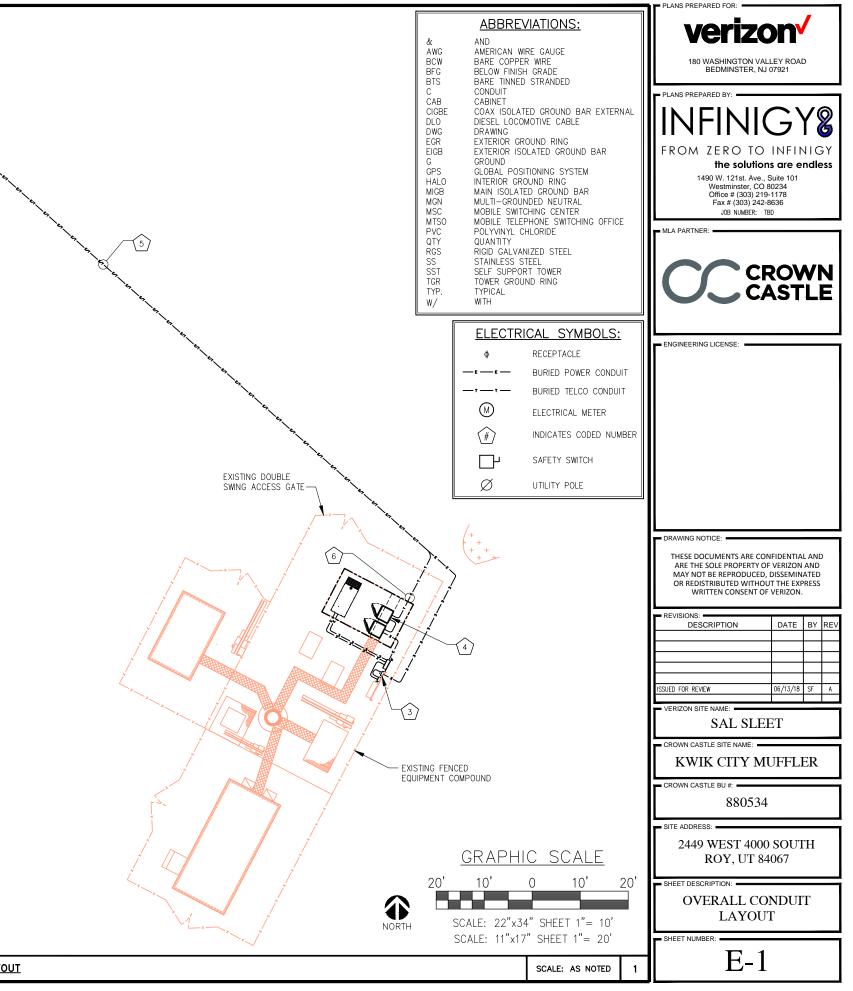
(3)PROPOSED ELECTRIC METER IN EXISTING METER BANK

PROPOSED VERIZON BBU CABINET ON EXISTING 10'x16' CONCRETE PAD $\left(4\right)$

- FOR POWER (1) 2" SCH. 40 PVC CONDUIT WITH (3) #3/0 AWG CU & 5 (1) #4 GROUND FOR POWER FROM EXISTING UTILITY POLE TO PROPOSED FLECTRIC METER
- FOR TELCO (1) 4" GRC OR LIQUIDTIGHT CONDUIT FOR FIBER FROM 6 PROPOSED FIBER VAULT (LOCATION TBD) TO PROPOSED VERIZON BBU CABINET (PENDING COORDINATION WITH LOCAL UTILITY COMPANY)

NOTE: ICE BRIDGE NOT SHOWN FOR CLARITY.

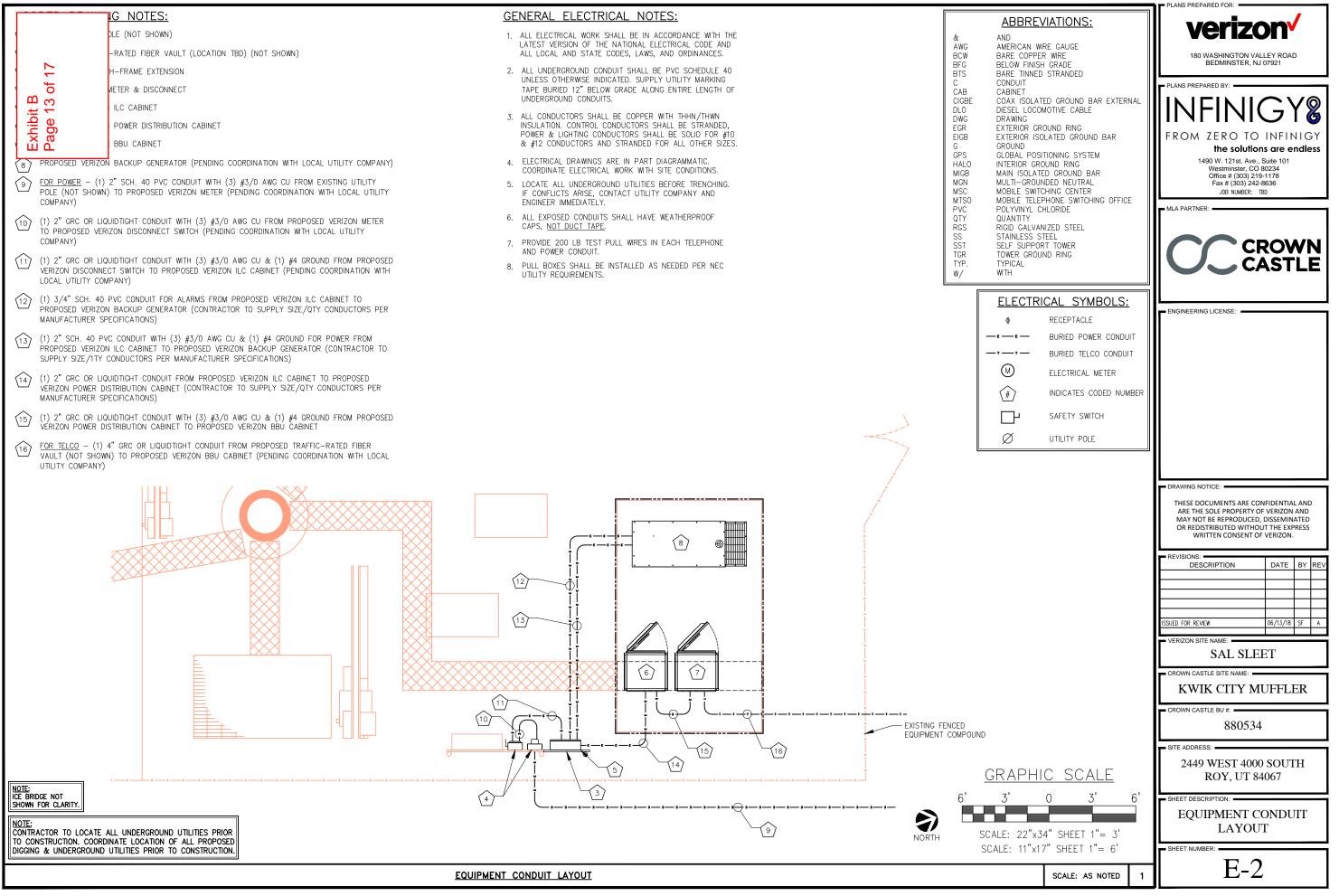
NOTE: CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. COORDINATE LOCATION OF ALL PROPOSED DIGGING & UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

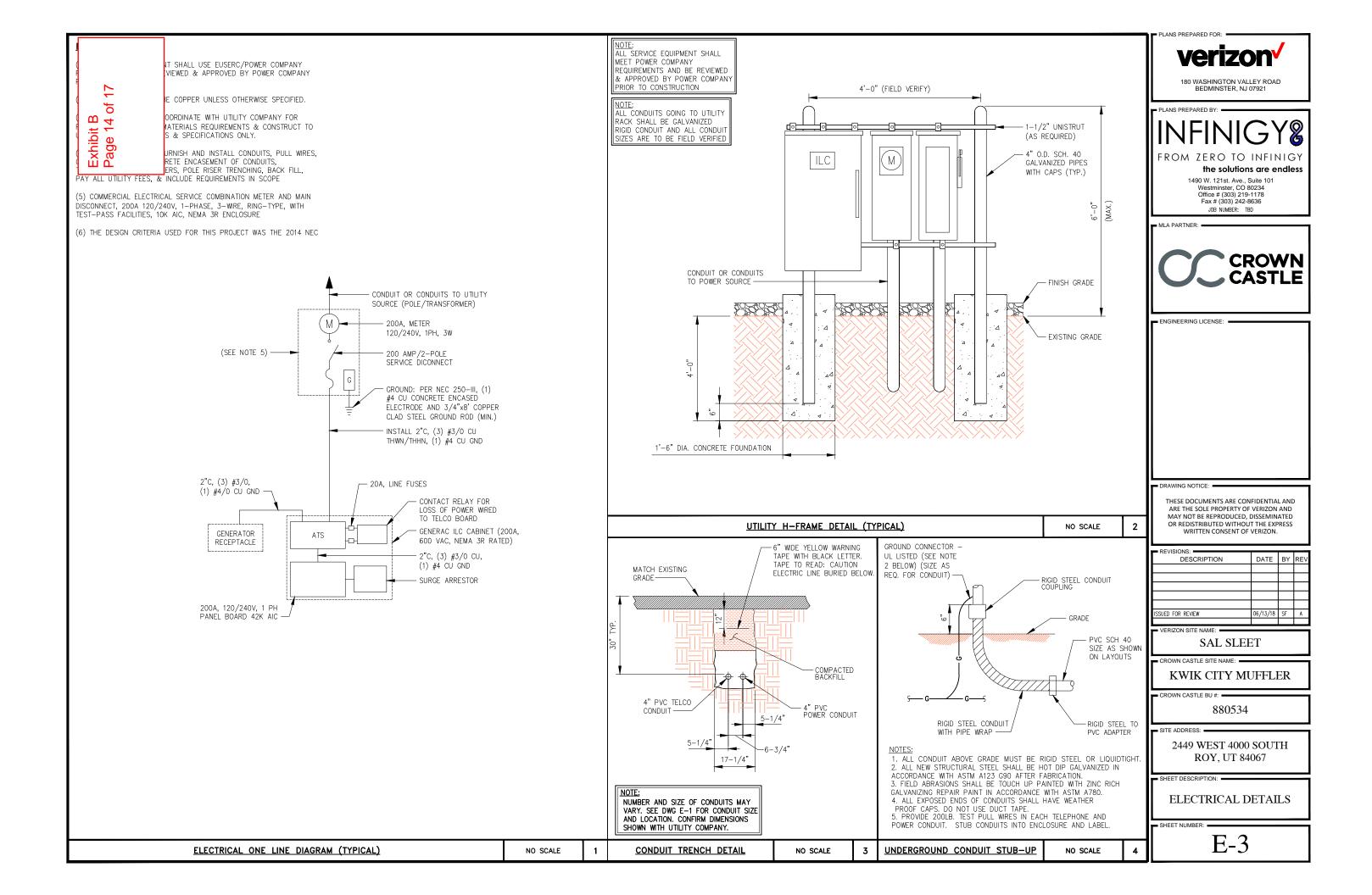


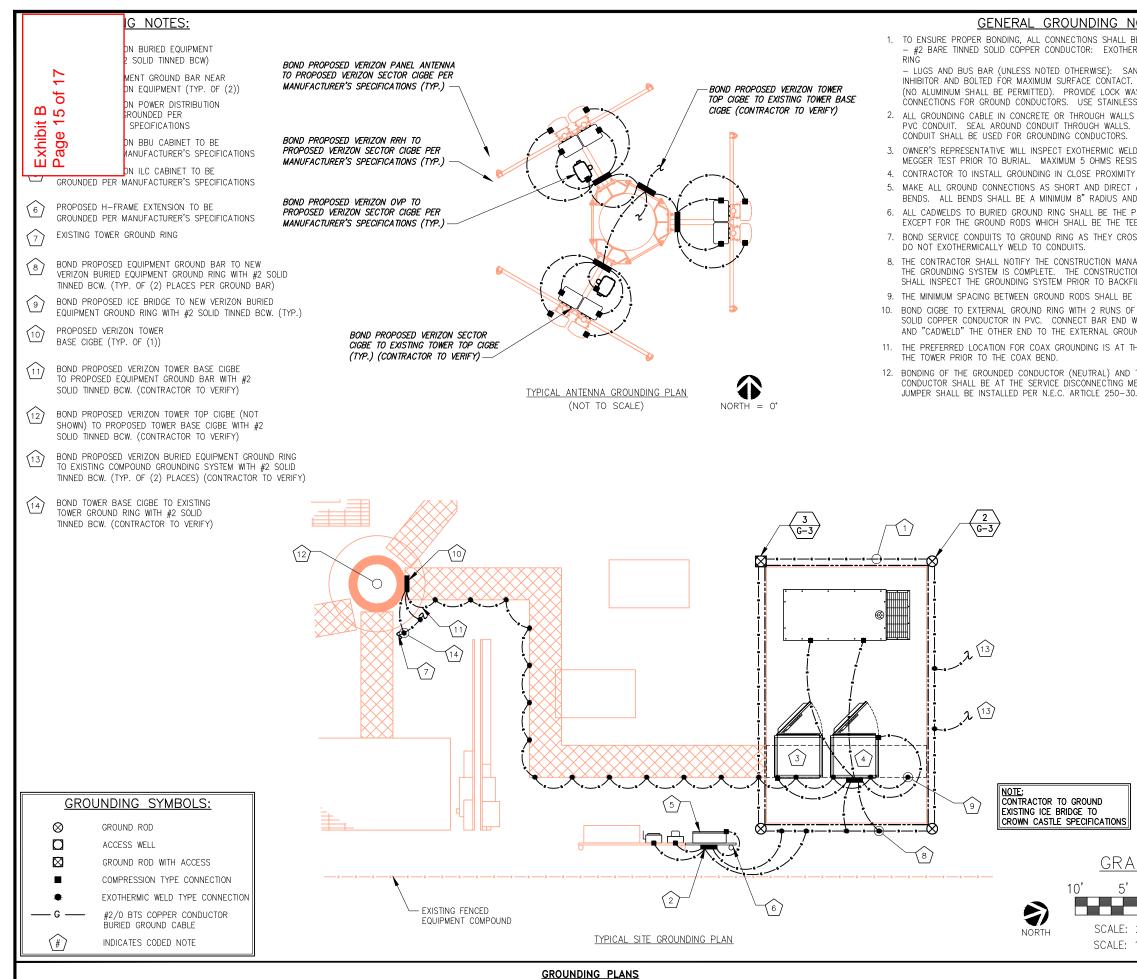
OVERALL CONDUIT LAYOUT

IG NOTES: DLE (NOT SHOWN) -RATED FIBER VAULT (LOCATION TBD) (NOT SHOWN) 1 H-FRAME EXTENSION of METER & DISCONNECT പ്ര ILC CABINET Exhibit Page 1: POWER DISTRIBUTION CABINET BBU CABINET PROPOSED VERIZON BACKUP GENERATOR (PENDING COORDINATION WITH LOCAL UTILITY COMPANY) (8) FOR POWER - (1) 2" SCH. 40 PVC CONDUIT WITH (3) #3/0 AWG CU FROM EXISTING UTILITY ٧ POLE (NOT SHOWN) TO PROPOSED VERIZON METER (PENDING COORDINATION WITH LOCAL UTILITY COMPANY) (1) 2" GRC OR LIQUIDTIGHT CONDUIT WITH (3) #3/0 AWG CU FROM PROPOSED VERIZON METER (10) TO PROPOSED VERIZON DISCONNECT SWITCH (PENDING COORDINATION WITH LOCAL UTILITY COMPANY) (11)(1) 2" GRC OR LIQUIDTIGHT CONDUIT WITH (3) #3/0 AWG CU & (1) #4 GROUND FROM PROPOSED VERIZON DISCONNECT SWITCH TO PROPOSED VERIZON ILC CABINET (PENDING COORDINATION WITH LOCAL UTILITY COMPANY) (1) 3/4" SCH. 40 PVC CONDUIT FOR ALARMS FROM PROPOSED VERIZON ILC CABINET TO (12) PROPOSED VERIZON BACKUP GENERATOR (CONTRACTOR TO SUPPLY SIZE/QTY CONDUCTORS PER MANUFACTURER SPECIFICATIONS) (1) 2" SCH. 40 PVC CONDUIT WITH (3) #3/0 AWG CU & (1) #4 GROUND FOR POWER FROM (13) PROPOSED VERIZON ILC CABINET TO PROPOSED VERIZON BÁCKUP GENERATOR (CONTRACTOR TO SUPPLY SIZE/ITY CONDUCTORS PER MANUFACTURER SPECIFICATIONS) $\left(14\right)$ (1) 2" GRC OR LIQUIDTIGHT CONDUIT FROM PROPOSED VERIZON ILC CABINET TO PROPOSED VERIZON POWER DISTRIBUTION CABINET (CONTRACTOR TO SUPPLY SIZE/QTY CONDUCTORS PER MANUFACTURER SPECIFICATIONS) (1) 2" GRC OR LIQUIDTIGHT CONDUIT WITH (3) #3/0 AWG CU & (1) #4 GROUND FROM PROPOSED (15) VÉRIZON POWER DISTRIBUTION CABINET TO PROPOSED VERIZON BBU CABINET FOR TELCO - (1) 4" GRC OR LIQUIDTIGHT CONDUIT FROM PROPOSED TRAFFIC-RATED FIBER $\left(16\right)$ VAULT (NOT SHOWN) TO PROPOSED VERIZON BBU CABINET (PENDING COORDINATION WITH LOCAL UTILITY COMPANY)

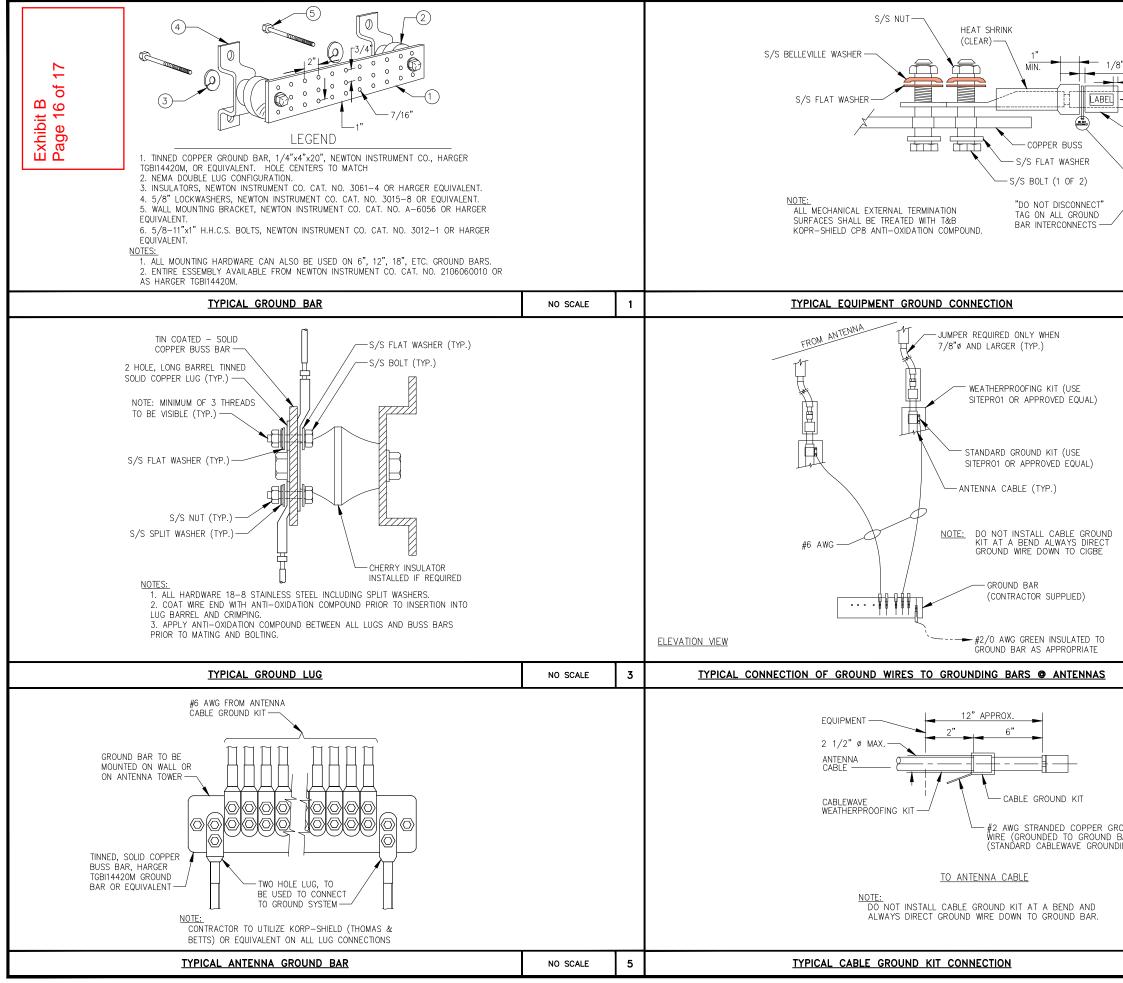
- LATEST VERSION OF THE NATIONAL ELECTRICAL CODE AND
- UNLESS OTHERWISE INDICATED. SUPPLY UTILITY MARKING TAPE BURIED 12" BELOW GRADE ALONG ENTIRE LENGTH OF UNDERGROUND CONDUITS
- INSULATION. CONTROL CONDUCTORS SHALL BE STRANDED. POWER & LIGHTING CONDUCTORS SHALL BE SOLID FOR #10 & #12 CONDUCTORS AND STRANDED FOR ALL OTHER SIZES
- COORDINATE ELECTRICAL WORK WITH SITE CONDITIONS.
- IF CONFLICTS ARISE, CONTACT UTILITY COMPANY AND ENGINEER IMMEDIATELY
- CAPS, NOT DUCT TAPE.
- AND POWER CONDUIT
- UTILITY REQUIREMENTS.



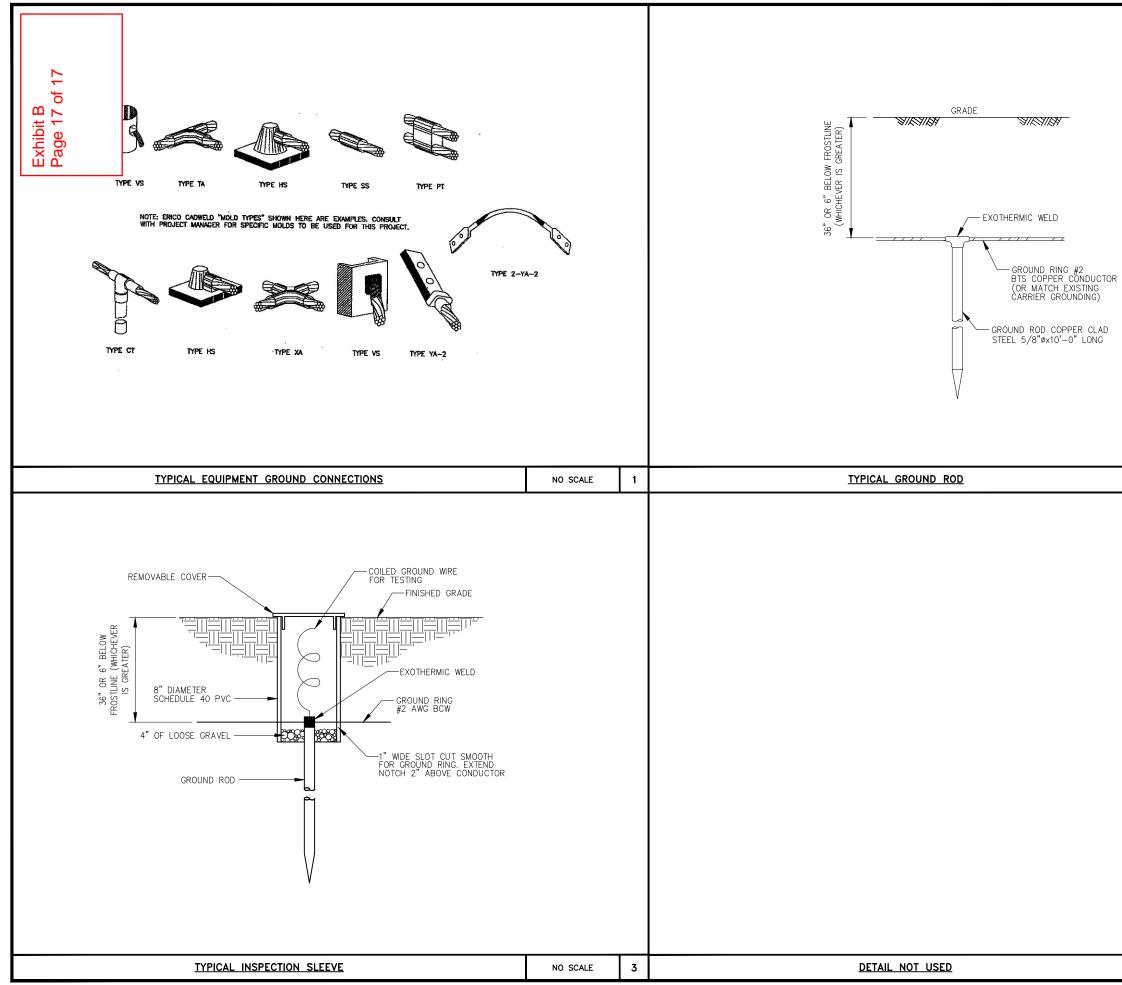




	PLANS PREPARED FOR:						
NOTES: _ BE AS FOLLOWS: HERMIC WELD TO RODS OR GROUND	verizon						
SANDED CLEAN, COATED WITH OXIDE CT. ALL LUGS SHALL BE COPPER WASHERS FOR ALL MECHANICAL	180 WASHINGTON VALLEY ROAD BEDMINSTER, NJ 07921						
AND LELAS I OKALANDO ALE MEDITIONE ESS STEEL HARDWARE THROUGHOUT. LS SHALL BE IN 3/4" S. NO METALLIC S. FELD AND CONDUCT ESISTANCE IS REQUIRED. ITY TO EQUIPMENT PLATFORM OR PAD. CT AS POSSIBLE. AVOID SHARP AND NO GREATER THAN 90 DEGREES. E PARALLEL TYPE,	PLANS PREPARED BY: INFINICY FROM ZERO TO INFINIGY the solutions are endless 1490 W. 121st. Ave., Suite 101 Westminster, CO 80234 Office # (303) 219-1178 Fax # (303) 242-8636						
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ANAGER WHEN TION MANAGER KFILLING. BE 10'-0" (MAX. 15'-0"). OF #2 BARE, TINNED, O WTH 2 HOLE LUG, OUND ROD. THE BASE OF	CC CROWN CASTLE						
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	VERIZON SITE NAME: SAL SLEET						
	CROWN CASTLE SITE NAME: KWIK CITY MUFFLER						
s	CROWN CASTLE BU #: 880534						
<u>APHIC SCALE</u>	SITE ADDRESS: 2449 WEST 4000 SOUTH ROY, UT 84067						
5' 0 5' 10' 22"x34" SHEET 1"= 5' 11"x17" SHEET 1"= 10'	SHEET DESCRIPTION: GROUNDING PLANS						
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		VERIZON 180 WASHINGTON VALLEY ROAD BEDMINSTER, NJ 07921				
	PLANS PREPARED BY: INFINICY FROM ZERO TO INFINICY the solutions are endless 1490 W. 121st. Ave., Suite 101 Westminster, CO 80234 Office # (303) 2142-8636 JOB NUMBER: TBD					
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