

T Mobile™

SITE I.D. NUMBER:

NY10152A

SITE NAME:

NY10152A

SITE ADDRESS:

50 EVAN ROAD, WARWICK, NY 10990

PROJECT INDEX

PROJECT INFORMATION

SITE NUMBER:	NY10152A	TENANT:	T-MOBILE NORTHEAST LLC.
SITE NAME:	NY10152A		4 SYLVAN WAY
SITE ADDRESS:	50 EVAN ROAD WARWICK, NY 10990	APPLICANT:	T-MOBILE NORTHEAST LLC.
COUNTY:	ORANGE		4 SYLVAN WAY
MUNICIPALITY:	TOWN OF CHESTER	PROJECT MANAGER:	AMP COMMUNICATIONS, LLC
ZONING DISTRICT:	SR-1 SUBURBAN RESIDENTIAL		OAKLAND, NJ 07436
PARCEL ID:	17-1-51	ENGINEER:	TECTONIC ENGINEERING CONSULTANTS, GEOLOGISTS & LAND SURVEYORS D.P.C.
PROPERTY OWNER:	KINGS ESTATE LTD PARTNERSHIP PREL PLAZA SUITE 15 ORANGETOWN, NY 10962		1279 ROUTE 300 NEWBURGH, NY 12550
STRUCTURE OWNER:	TOWN OF CHESTER		JAMES QUICKSELL (845) 567-6656
STRUCTURE TYPE:	WATER TANK		
LATITUDE:	41° 18' 05.64" N (PER FAA 1A)		
(NAD 83)	41.301567° N (PER FAA 1A)		
LONGITUDE:	74° 17' 38.81" W (PER FAA 1A)		
(NAD 83)	74.294114° W (PER FAA 1A)		
GRADE ELEVATION:	722.0'± AMSL (PER FAA 1A)		

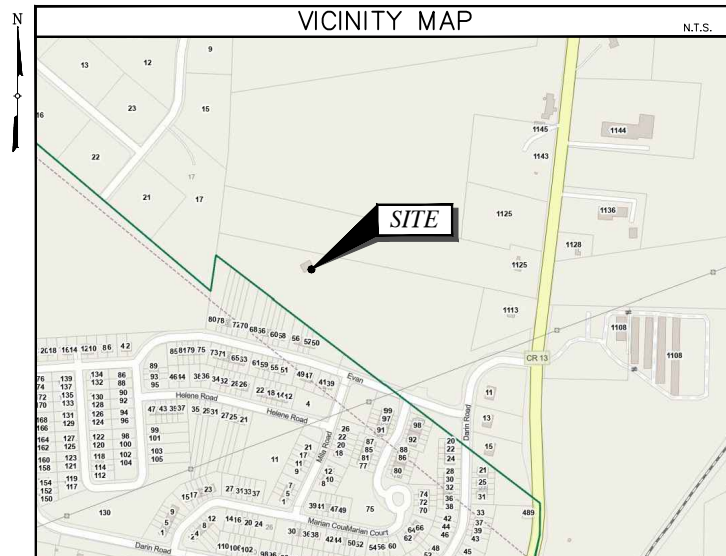
FACILITY INFORMATION

FACILITY TYPE:	WATER TANK
PROPOSED USE:	NEW TELECOMMUNICATIONS FACILITY INCLUDING NEW EQUIPMENT AT GRADE WITHIN NEW EQUIPMENT AREA AND NEW ANTENNAS ON EXIST WATER TANK. (1-2) VISITS PER MONTH BY TECHNICIAN
PROPOSED SITE LOCATION:	50 EVAN ROAD WARWICK, NY 10990
LATITUDE: (NAD 83)	41° 18' 5.64" N (PER FAA 1A)
LONGITUDE: (NAD 83)	74° 17' 38.81" W (PER FAA 1A)
GRADE ELEVATION:	722.0'± AMSL (PER FAA 1A)

DO NOT SCALE DRAWINGS

THESE DRAWINGS ARE FORMATTED FOR 24"x36". OTHER SIZED VERSIONS ARE NOT PRINTED TO THE SCALE SHOWN. CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

VICINITY MAP



SITE DIRECTIONS

DIRECTIONS FROM 4 SYLVAN WAY
HEAD NORTHWEST TOWARD SYLVAN WAY. TURN RIGHT THEN IMMEDIATELY TURN RIGHT ONTO SYLVAN WAY. TURN RIGHT ONTO US-202N/LITTLETON RD. TAKE RAMP RIGHT FOR I-80E. AT EXIT 43 TAKE RAMP RIGHT FOR I-287 TOWARDS MAHWAH/MORRISON. TAKE RAMP LEFT FOR I-87N/NY-17N TOWARDS ALBANY. AT EXIT 16 TAKE RAMP RIGHT FOR NY-17/US-6 TOWARDS HARRIMAN. MERGE TOWARDS NY-17W. KEEP STRAIGHT ONTO NY-17W. KEEP STRAIGHT TO GET ONTO US-6W. AT EXIT 127 TAKE RAMP RIGHT TOWARDS GREYCOURT RD/SUGAR LOAF/WARWICK. TURN LEFT ONTO LEHIGH AVE. BEAR RIGHT ONTO NY-17M/BROOKSIDE AVE. THEN IMMEDIATELY TURN LEFT ONT KINGS HWY/COUNTY HWY-13. TURN RIGHT ONTO KINGS ESTATE. TURN RIGHT ONTO EVAN RD. SITE ENTRANCE WILL BE ON THE RIGHT.



SHEET INDEX

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S-1	ANTENNA MOUNT SPEC	2	08/11/22
E-1	ELECTRICAL ONE LINE DIAGRAM, PANEL SCHEDULE, & SPECIFICATIONS	2	08/11/22
G-1	GROUNDING PLAN, GROUNDING SCHEMATIC & NOTES	2	08/11/22
G-2	GROUNDING DETAILS	2	08/11/22

REGULATORY REQUIREMENTS

NOTE: LEVEL 2 ACOUSTIC ENCLOSURE PROVIDES A NOISE LEVEL OF 67.50DBA. IT IS EPA CERTIFIED AND MEETS NFPA 99 AND 110 REQUIREMENTS (NFPA NATIONAL FIRE PROTECTION ASSOCIATION). THE SD050 GENERATOR ENGINE IS A TIER 4 ENGINE AND MEETS THE EPA FINAL STANDARDS.

OWNERS APPROVAL

SIGNATURE

DATE

PLANNING BOARD APPROVAL

SIGNATURE

DATE

CONFIGURATION

4Sec-67E998E 6160

REFER TO LATEST T-MOBILE RF DATA SHEET FOR FINAL RF DESIGN & BOM

Tectonic

PRACTICAL SOLUTIONS. EXCEPTIONAL SERVICE.
Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.
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Newburgh, NY 12550 (800) 829-6531
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T Mobile

4 SYLVAN WAY
PARSIPPANY, NJ 07054

AMP

COMMUNICATIONS, LLC

ACQUIRE • DESIGN • BUILD • MAINTAIN

PROJECT NUMBER			DESIGNED BY
11072.NY10152A			JMQ
REV.	DATE	DESCRIPTION	DRAWN BY
0	04/29/22	FOR COMMENT	BWY
1	06/06/22	FOR CONSTRUCTION	JMQ
2	08/11/22	FOR FILING	JMQ



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ORIGINAL SIZE IN INCHES

SITE INFORMATION

T-MOBILE SITE I.D: NY10152A

SITE ADDRESS

50 EVAN ROAD
WARWICK, NY 10990
ORANGE COUNTY

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

GENERAL NOTES

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF CURRENT BUILDING CODE AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES, LATEST VERSION, AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
2. CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
3. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS OTHERWISE NOTED. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO EFFECT ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
4. DIMENSIONS SHOWN ARE TO FINISH SURFACES, UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS. SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS AND/OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE AUTHORIZED REPRESENTATIVE OR THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
5. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
6. CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING, AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
7. ONCE THE CONTRACTOR HAS RECEIVED AND ACCEPTED THE "NOTICE TO PROCEED," CONTRACTOR WILL CONTACT THE CONSTRUCTION MANAGER OF RECORD A MINIMUM OF 48 HOURS PRIOR TO WORK START.
8. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ALL PRODUCTS OR ITEMS NOTED AS "EXISTING" WHICH ARE NOT FOUND TO BE IN THE FIELD.
9. CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE BEST CONSTRUCTION SKILLS AND ATTENTION. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT, UNLESS OTHERWISE NOTED.
10. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS, AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS.
12. CONTRACTOR SHALL COORDINATE HIS WORK AND SCHEDULE HIS ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTIONS OF THE WORK.
14. CONTRACTOR SHALL MAINTAIN LIABILITY INSURANCE TO PROTECT THE OWNER.
15. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
16. MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SURFACES, EQUIPMENT, IMPROVEMENTS, AND PIPING. REPAIR ANY DAMAGE THAT OCCURS DURING CONSTRUCTION.
17. REPAIR ALL EXISTING SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND WITH ADJACENT SURFACES.
18. KEEP CONTRACT AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS AND RUBBISH. EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE REMOVED. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
19. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE ENGINEER.
20. PROVIDE 48 HOURS WRITTEN NOTICE TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
21. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS AND OTHER DOCUMENTATION SHALL BE TURNED OVER TO OWNER/CARRIER AT COMPLETION OF CONSTRUCTION.
22. COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE BY ANY WORK, MATERIALS OR EQUIPMENT FOUND TO BE DEFECTIVE DURING THAT PERIOD SHALL BE CORRECTED IMMEDIATELY UPON WRITTEN NOTIFICATION AT NO ADDITIONAL COST TO THE OWNER/CARRIER.

ANTENNA NOTES:

1. DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL ALSO CONFORM TO LATEST & APPLICABLE ANSI/TIA-222 "XXX" VARIES BY REVISION.
2. ALL ANTENNA MOUNTS AND ASSOCIATED APPURTENANCES SHALL BE INSTALLED WITH DOUBLE NUTS AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND GROUNDING.
4. ALL CABLES SHALL BE GROUNDED WITH COAXIAL CABLE GROUNDING KITS. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS.
- A. GROUNDING AT THE ANTENNA LEVEL.
- B. GROUNDING AT MID LEVEL, TOWERS WHICH ARE OVER 200'-0", ADDITIONAL CABLE GROUNDING REQUIRED.
- C. GROUNDING AT BASE OF TOWER PRIOR TO TURNING HORIZONTAL.
- D. GROUNDING OUTSIDE THE EQUIPMENT SHELTER AT ENTRY PORT.
- E. GROUNDING INSIDE THE EQUIPMENT SHELTER AT THE ENTRY PORT.

5. ALL PROPOSED GROUNDING BAR DOWNLEADS ARE TO BE TERMINATED TO THE EXISTING ADJACENT GROUNDING BAR DOWNLEADS A MINIMUM DISTANCE OF 4'-0" BELOW GROUNDING BAR. TERMINATIONS MAY BE EXOTHERMIC OR COMPRESSION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ANTENNA AND THE COAX CONFIGURATION IS THE CORRECT MAKE AND MODELS, PRIOR TO INSTALLATION.
7. ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER TOWER MANUFACTURER'S SPECIFICATION & RECOMMENDATIONS.
8. CONTRACTOR SHALL REFERENCE THE TOWER STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION/ROUTING.
9. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ANTENNA, TMAS, DIPLEXERS, AND COAX CONFIGURATION, MAKE AND MODELS PRIOR TO INSTALLATION.
10. CONTRACTOR SHALL REFERENCE THE TOWER STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION/ROUTING.
11. ALL OUTDOOR RF CONNECTORS/CONNECTIONS SHALL BE WEATHERPROOFED, EXCEPT THE RET CONNECTORS, USING BUTYL TAPE AFTER INSTALLATION AND FINAL CONNECTIONS ARE MADE. BUTYL TAPE SHALL HAVE A MINIMUM OF ONE-HALF TAPE WIDTH OVERLAP ON EACH TURN AND EACH LAYER SHALL BE WRAPPED THREE TIMES. WEATHERPROOFING SHALL BE SMOOTH WITHOUT BUCKLING. BUTYL BLEEDING IS NOT ALLOWED.
12. IF REQUIRED TO PAINT ANTENNAS AND/OR COAX:
 - A. TEMPERATURE SHALL BE ABOVE 50° F.
 - 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 NUMBERS.
14. 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 +/- .05% AS DEFINED BY THE RFDS.
15. ALL UNUSED PORTS ON ANY ANTENNAS SHALL BE TERMINATED WITH A 50-OHM LOAD TO ENSURE ANTENNAS PERFORM AS DESIGNED.
16. UNISTRUTS SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP. WAYNE, MI OR EQUAL. STRUT MEMBERS SHALL BE 1 5/8"x1 5/8"x12GA, UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
17. MINIMUM BEND RADIUS, OF ANTENNA CABLES SHALL BE IN ACCORDANCE WITH CABLE MANUFACTURERS RECOMMENDATIONS.
18. CONTRACTOR TO VERIFY ALL REQUIRED LENGTHS OF MATERIAL PRIOR TO ORDERING MATERIALS.
19. CONTRACTOR TO TAG COAX CABLE AT BOTH ENDS WITH ANTENNA DESIGNATION AS REQUIRED BY CONSTRUCTION MANAGER.

FIBER:

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 INTO AN INNERDUCT AND A PARTITION BARRIER SHALL BE INSTALLED BETWEEN THE HIGH VOLTAGE CABLES AND THE INNERDUCT IN ORDER TO SEGREGATE CABLE TYPES. FIBER OPTIC TRUNK CABLES SHALL HAVE APPROVED CABLE RESTRAINTS EVERY (60) SIXTY FEET AND SECURELY FASTENED TO THE CABLE TRAY SYSTEM. NFPA 70 (NEC) ARTICLE 770 RULES SHALL APPLY.
2. THE TYPE TC-ER CABLES SHALL BE INSTALLED INTO CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY AND SHALL BE SECURED AT INTERVALS NOT EXCEEDING (6) SIX FEET. AN EXCEPTION; WHERE TYPE TC-ER CABLES ARE NOT SUBJECT TO PHYSICAL DAMAGE, CABLES SHALL BE PERMITTED TO MAKE A TRANSITION BETWEEN CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY WHICH ARE SERVING UTILIZATION EQUIPMENT OR DEVICES. A DISTANCE (6) SIX FEET SHALL NOT BE EXCEEDED WITHOUT CONTINUOUS SUPPORTING. NFPA 70 (NEC) ARTICLES 336 AND 392 RULES SHALL APPLY.
3. WHEN INSTALLING FIBER OPTIC TRUNK CABLES OR TYPE TC-ER CABLES INTO CONDUITS, NFPA 70 (NEC) ARTICLE 300 RULES SHALL APPLY.

STRUCTURAL NOTES:

1. DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN".
2. STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992, "STEEL FOR STRUCTURAL SHAPES FOR USE IN BUILDING FRAMING", GRADE 50, UNLESS OTHERWISE INDICATED. IF THE MEMBER SIZES INDICATED ARE NOT AVAILABLE IN THIS GRADE, ASTM A572 "HIGH-STRENGTH LOW-ALLOY COLUMBIUM-VANADIUM STRUCTURAL STEEL", GRADE 50, MAY BE SUBSTITUTED.
3. HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING IN ROUNDS AND SHAPES", GRADE C. SUBSTITUTION WITH ASTM A53 PIPE IS NOT ACCEPTABLE.
4. FIELD WELDING IS NOT PERMITTED, UNLESS SPECIFICALLY INDICATED OTHERWISE ON THESE DRAWINGS.
5. ALL FILLET WELDS SHALL BE MADE USING THE SHIELDED METAL ARC WELDING (SMAW) PROCESS WITH E70XX ELECTRODES UNLESS OTHERWISE NOTED.
6. MISCELLANEOUS STEEL, INCLUDING THREADED RODS, CHANNELS, ANGLES, PLATES, AND BARS SHALL CONFORM TO ASTM A36 "CARBON STRUCTURAL STEEL", UNLESS OTHERWISE INDICATED.
7. U-BOLTS SHALL CONFORM TO ASTM A36 OR A307 "CARBON STEEL BOLTS, STUDS, AND THREADED ROD 60000 PSI TENSILE STRENGTH". ALL U-BOLTS SHALL BE 1/2" DIAMETER IN 9/16" HOLES, UNLESS OTHERWISE NOTED. INSTALL DOUBLE NUTS ON ALL CONNECTIONS.
8. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 "ANCHOR BOLTS, STEEL, 36, 55, AND 105-KSI YIELD STRENGTH", GRADE 36.
9. STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS CONFORMING TO ASTM A325 "STRUCTURAL BOLTS, STEEL, HEAT TREATED, 120/105 KSI MINIMUM TENSILE STRENGTH", BOLTS SHALL BE 3/4 INCH DIAMETER, TYPE X, UNLESS OTHERWISE NOTED.
10. MATCHING NUTS SHALL BE HEAVY HEX TYPE, CONFORMING TO ASTM A563 "CARBON AND ALLOY STEEL NUTS". WASHERS, WHERE REQUIRED, SHALL CONFORM TO ASTM F436 "HARDENED STEEL WASHERS".

11. FIELD CONNECTIONS SHALL BE BOLTED UNLESS OTHERWISE INDICATED. ALL BOLTED CONNECTIONS SHALL BE MADE WITH NOT LESS THAN TWO (2) HIGH STRENGTH BOLTS, OR EQUIVALENT WELD.
12. ALL STEEL SUPPORTS SHALL BE INSTALLED WITH DOUBLE NUTS AND SHALL BE INSTALLED SNUG TIGHT.
13. STRUCTURAL CONNECTIONS SHALL BE SNUG TIGHT IN ACCORDANCE WITH THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", UNLESS OTHERWISE NOTED.
14. BOLTS IN SLIP-CRITICAL CONNECTIONS SHALL BE FULLY PRETENSIONED BY THE TURN-OF-NUT METHOD IN ACCORDANCE WITH THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
15. ANCHOR BOLTS SHALL BE TENSIONED BY THE TURN-OF-NUT METHOD AFTER GROUTING OF BASE PLATES.
16. ALL HOLES FOR BOLTS SHALL BE 1/16 INCH LARGER THAN THE BOLT DIAMETER WITH AN EDGE DISTANCE OF AT LEAST 1 1/2 TIMES THE BOLT DIAMETER AND A SPACING OF AT LEAST 3 TIMES THE BOLT DIAMETER. ALL BOLTS SHALL BE PROVIDED WITH PALNUTS OR LOCK NUTS
17. CONTRACTOR SHALL COMPLY WITH AWS D1.1 "STRUCTURAL WELDING CODE - STEEL" FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES".
18. METAL DECK SHALL BE FORMED STEEL DECK AS MANUFACTURED BY VULCRAFT, INC. OR APPROVED EQUAL. DECK SHALL BE FABRICATED FROM GALVANIZED STEEL CONFORMING TO ASTM A653, "STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON ALLOY-COATED (GALVANNEALED) BY THE HOT-DIP PROCESS", STRUCTURAL QUALITY. COATING SHALL CONFORM TO CLASSIFICATION G60.
19. ALL OPENINGS REQUIRED IN THE DECK WHICH ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE CUT IN THE FIELD ONLY AS APPROVED BY THE ENGINEER.
20. GRATING SHALL BE TYPE "G" GALVANIZED WELDED STEEL BAR GRATING AS MANUFACTURED BY MCNICHOLS, OR APPROVED EQUAL. BEARING BARS SHALL BE AS FOLLOWS:

EXTERIOR GRATING	1" X 3/16"	SERRATED
INTERIOR GRATING	1" X 3/16"	PLAIN
ALUMINIUM	1 1/4"x3/16"	GAL SERIES

BAND ALL EDGES, AND ATTACH TO SUPPORTING MEMBERS AT 18" ON CENTER WITH MODEL GG GALVANIZED G-CLIPS AS MANUFACTURED BY GRATING FASTENERS INC.
21. EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT T22 OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE 4-3/4" UNLESS OTHERWISE NOTED.
22. ADHESIVE ANCHOR ASSEMBLIES SHALL BE AS MANUFACTURED BY HILTI OR ENGINEER APPROVED EQUAL, AS FOLLOWS:

BASE MATERIAL	ANCHOR SYSTEM
HOLLOW CMU OR BRICK	HIT HY-270
CONCRETE	HIT HY-200

INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
23. HAMMER DRILLS ARE NOT TO BE USED WHEN DRILLING HOLES FOR SLEEVE OR EXPANSION BOLTS INSTALLED IN MASONRY BLOCKS/BRICKS.
24. ALL INTERIOR STRUCTURAL STEEL SHALL BE SHOP PRIME COATED WITH A RUST-INHIBITIVE PRIMER EXCEPT AREAS TO BE FIREPROOFED NEED NOT BE PAINTED. SURFACE PREPARATION SHALL BE IN ACCORDANCE WITH THE PAINT MANUFACTURER'S RECOMMENDATIONS. AREAS WHICH MAY BE INACCESSIBLE AFTER INSTALLATION SHALL RECEIVE TWO (2) COATS OF PRIMER. FINISH PAINT AS DIRECTED BY OWNER/CARRIER.
25. FIELD CONNECTIONS AND DAMAGED OR ABRADED AREAS OF SHOP PRIME COAT SHALL BE TOUCH-UP PAINTED WITH COMPATIBLE FIELD PRIMER.
26. ALL EXTERIOR STEEL SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
27. ALL EXTERIOR BOLTS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
28. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780 "REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT-DIP GALVANIZED COATINGS", USING GALVANIZING COMPOUND AS MANUFACTURED BY ZINCO-USA OR ZINC NOTE, OR ENGINEER APPROVED EQUAL, WITH A MINIMUM METALLIC ZINC CONTENT OF 95% BY WEIGHT IN DRY FILM. DRY FINISHED COATING THICKNESS SHALL BE 3 MILS MINIMUM. DAMAGED AREAS OF STEEL SHALL BE REPAINTED TO MATCH ANY EXISTING FINISH (IF APPLICABLE).
29. STEEL WORK SHALL BE SUBJECT TO SPECIAL INSPECTIONS DURING CONSTRUCTION AS REQUIRED BY THE CODE.
30. CONTRACTOR TO REMOVE MASTIC ON THE EXISTING WALL/PARAPET AT EVERY STEEL SUPPORT ATTACHMENT AND REPOINT MASONRY AS REQUIRED. A BED OF SILICONE SHALL BE APPLIED ALL AROUND THE STEEL SUPPORT ATTACHMENT TO MAKE IT WEATHERPROOF.
31. ALL HOLES TO BE ADDED IN THE FIELD SHALL BE PUNCHED OR DRILLED. NO HOLE BURNING SHALL BE ALLOWED. REPAIR GALVANIZING IN ACCORDANCE WITH ASTM A780.
32. THE NOTES CONTAINED HEREIN ARE NOT PROJECT SPECIFIC. THE CONTRACTOR SHALL UTILIZE ALL NOTES WHICH SOLELY PERTAIN TO THE WORK DEPICTED ON THESE DRAWINGS.

HILTI TESTING NOTES:

IF REQUIRED PER HILTI SPECIFICATIONS. CONTRACTOR SHALL RETAIN HILTI TO TEST AND CERTIFY THE ADHESIVE ANCHORS SPECIFIED IN THE CONSTRUCTION DRAWINGS TO BE INSTALLED IN MASONRY. A MINIMUM OF ONE (1) ANCHOR PER CONNECTION SHALL BE TESTED. FOR ANTENNA MOUNTS, A MINIMUM OF 25% OF ANCHORS PER SECTOR SHALL BE TESTED. THE LOAD TO THE ANCHORS SHALL BE APPLIED USING A STEEL TEST FRAME THAT IS ADEQUATE TO CARRY THE PULL TEST LOADS. APPLY A TENSILE LOAD SPECIFIED AND RECOMMENDED BY THE ANCHOR MANUFACTURER ONTO THE ANCHOR TO BE TESTED. MAINTAIN THE LOAD FOR AT LEAST TWO MINUTES AFTER SPECIFIED LOAD IS REACHED. IF ANY TESTED ANCHOR IN A CONNECTION FAILS TO REACH THE SPECIFIED LOAD CAPACITY, ALL ANCHORS WITHIN THAT CONNECTION SHALL BE TESTED. ENGINEER OF RECORD OR A SPECIAL INSPECTOR SHALL BE PRESENT ON SITE DURING THE ANCHOR TESTS. TEST RESULTS SHALL BE DOCUMENTED BY HILTI AND FURNISHED TO ENGINEER OF RECORD UPON COMPLETION. ANCHORS WILL BE VISUALLY INSPECTED ALONG

WITH THE SURROUNDINGS AFTER TESTING.

MASONRY NOTES:

1. DESIGN AND CONSTRUCTION OF ALL MASONRY WORK SHALL CONFORM TO ACI 530 AND 530.1 STANDARDS "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", AND "SPECIFICATIONS FOR MASONRY STRUCTURES".
2. CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT HOLLOW LOAD BEARING UNITS CONFORMING TO ASTM C90 "LOADBEARING CONCRETE MASONRY UNITS", TYPE 1 (MOISTURE-CONTROLLED), GRADE N. COMPRESSIVE STRENGTH OF MASONRY (F'M) SHALL NOT BE LESS THAN 2,000 PSI. COLOR AND FINISH AS INDICATED. SUBJECT TO APPROVAL BY OWNER.
3. MORTAR SHALL CONFORM TO ACTM C270 "MORTAR FOR UNIT MASONRY" TYPE M OR S.
4. GROUT SHALL CONFORM TO ASTM C476 "GROUT FOR REINFORCED AND NON-REINFORCED MASONRY". ALL CELLS SHALL BE FILLED SOLID WITH GROUT AT REINFORCING.
5. ALL MASONRY SHALL BE CONSTRUCTED IN RUNNING BOND.
6. HORIZONTAL JOINT REINFORCING SHALL BE STANDARD WEIGHT LADDER TYPE (2-No. 9 GAGE SIDE RODS) SPACED VERTICALLY AS INDICATED.
7. INJECT GROUT INTO WEAK MORTAR WHERE THERE IS SEPARATION BETWEEN JOINTS.

MASONRY REPAIR NOTES:

1. REPAIR ALL EXISTING BULKHEAD/PARAPET WALL CRACKS WITHIN 3 FEET RADIUS OF THE MOUNT ATTACHMENT POINTS.
2. CONTRACTOR IS RESPONSIBLE TO REPAIR ANY BRICK FRACTURE OR MORTAR CRACKS THAT MAY DEVELOP DURING CONSTRUCTION OF ANTENNA MOUNTS AND EQUIPMENT FRAME.
3. DO NOT HAMMER DRILL INTO EXISTING BULKHEAD/PARAPET.
 - REPAIR WORK TO BE DONE IN SECTIONS NOT TO EXCEED 4 FEET IN BULKHEAD/PARAPET LENGTH.
 - RE-POINT ALL AREAS AND REPLACE ALL CRACKED/DAMAGED BRICK AS REQUIRED.
 - REPLACE PARGING TO MATCH EXISTING BUILDING AND PAINT TO MATCH.
 - RESEAL ALL ANCHOR HOLES WEATHER-TIGHT.
4. CONTRACTOR TO REMOVE TAR/MASTIC ON THE EXISTING BULKHEAD/PARAPET AT EVERY MOUNT ATTACHMENT AND REPOINT MASONRY AS REQUIRED. A BEAD OF SILICONE SHALL BE APPLIED BEHIND AND ALL AROUND THE MOUNT ATTACHMENT TO MAKE IT WEATHERPROOF.
 - REPAIR WORK TO BE DONE IN SECTIONS NOT TO EXCEED 4 FEET IN BULKHEAD/PARAPET LENGTH.
 - REMOVE LOOSE BULKHEAD/PARAPET MEMBRANE A MAXIMUM OF 3 FEET FROM EDGE OF ATTACHMENT.
 - RE-POINT ENTIRE AREA AS REQUIRED.
 - RESEAL AND REPLACE BULKHEAD/PARAPET MEMBRANE AND FLASHING TO MATCH EXISTING.

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SITE ADDRESS

50 EVAN ROAD
WARWICK, NY 10990
ORANGE COUNTY

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-1

STUD WELDING TO WATER TANK NOTES

GENERAL:

1. WELDING STUDS SHALL BE TYPE TFC FLANGED THREADED LOW CARBON COPPER COATED STEEL STUDS, GRADE 1010 THROUGH 1020, CONFORMING TO ASTM A108 "STEEL BAR, CARBON AND ALLOY, COLD FINISHED" AS MANUFACTURED BY NELSON STUD WELDING, INC. OR APPROVED EQUAL. ALL STUDS SHALL BE 1/4" DIAMETER BY 2 1/8" LONG, UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS.
2. STUDS MUST BE WELDED BY THE CAPACITOR DISCHARGE METHOD, USING THE NELSON NCD 100 OR 150 SYSTEM, AS MANUFACTURED AND MARKETED BY NELSON STUD WELDING, ELYRIA OHIO, (800) 635-9353 OR (440) 329-0400, OR APPROVED EQUAL. FILLET WELDS ARE NOT ACCEPTABLE.
3. CONTRACTOR SHALL RECEIVE IN WRITING THE OWNER'S REQUIREMENTS FOR TANK INSPECTIONS PRIOR TO COMMENCING WITH THE WORK ON THE TANK. UPON THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A WRITTEN RELEASE FROM THE OWNER STATING THAT ALL WORK WAS PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND THE OWNERS WRITTEN REQUIREMENTS, AND RELEASES ALL LIABILITY TO THE CONTRACTOR, THE ENGINEER, THE APPLICANT, AND THE STUD MANUFACTURER.
4. CONTRACTOR SHALL COMPLY WITH AWS D1.1 "STRUCTURAL WELDING CODE-STEEL" AND AWS C5.4 "RECOMMENDED PRACTICES FOR STUD WELDING" FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". CONTRACTOR SHALL ADHERE TO AWS RECOMMENDED "SAFE PRACTICES FOR WELDING".
5. WELDING PARAMETERS, MACHINE POWER AND DWELL TIME SHALL BE QUALIFIED FOR THE WELDING POSITION, MATERIAL THICKNESS AND STUD SIZE TO BE USED. IF CHANGES IN THE SET-UP OCCUR AS DEFINED IN AWS D1.1, THE PROCEDURE MUST BE REQUALIFIED.
6. CONTRACTOR SHALL SUBMIT CERTIFICATION OF WELDERS FOR STUD WELDING TO THE ENGINEER AND OWNER PRIOR TO COMMENCEMENT OF THE WORK.
7. THE INSTALLATION OF WELDED STUDS SHALL BE PERFORMED ONLY DURING PERIODS OF CLEAR WEATHER.
8. ALL NUTS, WASHERS, AND OTHER HARDWARE INSTALLED ON WELDED STUDS SHALL BE STAINLESS STEEL OR NYLON, AS SHOWN. GALVANIZED OR PLATED CARBON STEEL HARDWARE IS NOT ACCEPTABLE. RUBBER OR PLASTIC WASHERS SHALL NOT BE USED.

SURFACE PREPERATION:

1. CLEANING PROCEDURES SHALL BE VERIFIED AS MEETING THE MINIMUM REQUIREMENTS PER THE AWS WELDING HANDBOOK, VOLUME 2--PART 1: WELDING PROCESSES, "QUALITY CONTROL AND INSPECTION" FOR STUD WELDING. IF THE EXISTING COATING SYSTEM CONTAINS LEAD OR OTHER POTENTIALLY HAZARDOUS MATERIALS, SPECIAL PROCEDURES FOR REMOVAL AND DISPOSAL WILL BE REQUIRED.
2. PREPARE SURFACE TO BE WELDED BY SPOT REMOVING PAINT TO BARE METAL IN ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL SSPC--SP11 "POWER TOOL CLEANING TO BARE METAL". USE A 3M CLEAN STRIP XT DISC, ROTARY BURR, OR ROTARY FILE. THE USE OF A SOLID GRINDING STONE, FLAP WHEEL, OR WIRE WHEEL IS NOT ACCEPTABLE.
3. FOLLOW POWER TOOL CLEANING WITH A NON-FLAMMABLE SOLVENT CLEANING TO REMOVE ANY OILS, CONTAMINANTS, RUST, OR DIRT IN ACCORDANCE WITH SSPC--SP1 "SOLVENT CLEANING" PRIOR TO STUD WELDING.

STUD QUALIFICATION TESTING AND SAMPLING:

1. 1THE QUALIFICATION OF STUD APPLICATION AND PRE--PRODUCTION TESTING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 7 "STUD WELDING" OF AWS D1.1. INITIAL QUALIFICATION TESTING SHALL BE PERFORMED UNDER INSPECTION BY THE ENGINEER.
2. STUD APPLICATION SHALL BE QUALIFIED BY STUD WELDING TEN (10) SPECIMENS CONSECUTIVELY TO ASTM A36 STEEL BASE MATERIALS USING RECOMMENDED PROCEDURES AND SETTINGS FOR EACH DIAMETER, POSITION, AND SURFACE GEOMETRY. ALL TEN SPECIMENS SHALL BE TORQUE TESTED TO FAILURE. STUD APPLICATION SHALL BE CONSIDERED QUALIFIED IF ALL TEST SPECIMENS ARE TORQUED TO DESTRUCTION WITHOUT FAILURE IN THE WELD. IN ADDITION, PRIOR TO PRODUCTION, CONTRACTOR SHALL PREPARE SIX (6) STUD WELDED SAMPLES USING A36 STEEL PLATES WITH THICKNESS EQUAL TO EACH OF THE PLATE THICKNESSES OF THE WATER TANK TO BE WELDED. THE SIDE OPPOSITE THE STUD WELD SHALL HAVE A SIMILAR COATING (MINIMUM DFT=6 MIL) TO THE EXISTING INTERIOR COATING OF THE WATER TANK. SAMPLES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
3. BEFORE PRODUCTION, AT THE START OF EVERY SHIFT AND FOR EACH PARTICULAR SETUP, TESTING SHALL BE PERFORMED ON THE FIRST TWO (2) STUDS THAT ARE WELDED. IN PLACE OF THE ACTUAL PRODUCTION STUD, TESTING MAY BE PERFORMED ON A MATERIAL SIMILAR TO THE PRODUCTION MEMBER IN THICKNESS AND PROPERTIES. TESTING SHALL INCLUDE A VISUAL EXAMINATION OF THE STUD WELD FOR A FULL 360 DEGREE FLASH. IN ADDITION, THE TEST SHALL INCLUDE TORQUE TESTING THE STUDS IN ACCORDANCE WITH THE FOLLOWING CRITERIA:

STUD SIZE	TESTING TORQUE
1/4" (1/4--20 UNC)	5.9 FT--LB

4. IF FAILURE OCCURS, THE PROCEDURE SHALL BE CORRECTED AND TWO (2) MORE STUDS SHALL BE WELDED AND TESTED.
5. PRIOR TO PRODUCTION, CONTRACTOR SHALL PERFORM THREE (3) TEST WELDS ON THE WATER TANK IN A LOCATION SPECIFIED BY THE TANK OWNER TO VERIFY THAT NO DAMAGE WILL OCCUR TO THE COATING SYSTEM ON THE INTERIOR OF THE TANK. ANY AND ALL DAMAGE TO THE INTERIOR COATING SHALL BE REPAIRED TO THE OWNER'S SATISFACTION. IF DAMAGE DOES OCCUR, THE PROCEDURE SHALL BE REEVALUATED BY THE ENGINEER, CONSTRUCTION MANAGER, AND OWNER'S AUTHORIZED REPRESENTATIVE BEFORE COMMENCING WITH THE WORK.

PROTECTIVE COATING:

1. IMMEDIATELY AFTER WELDED STUDS HAVE COOLED TO AMBIENT TEMPERATURE, AND PRIOR TO INSTALLATION OF ATTACHMENTS, NUTS, OR HARDWARE, APPLY LIQUID COLD GALVANIZING COMPOUND (OR OTHER COATING MATERIAL APPROVED BY THE TANK OWNER) TO THE THREADED PORTION OF EACH STUD TO PREVENT CORROSION PRIOR TO APPLICATION OF FINISH PAINT.

REPAINTING:

1. ALL SURFACE PREPARATION AND RECOATING OF STEEL SURFACES SHALL BE PERFORMED BY A PAINTING CONTRACTOR THAT HAS BEEN PRE--QUALIFIED BY THE TANK OWNER.
2. ALL PAINTED SURFACES AFFECTED BY WELDING OPERATIONS SHALL BE REPAINTED TO MATCH ADJACENT EXISTING SURFACES. PAINTING SHALL INCLUDE COATING OF THE STUDS AND HARDWARE.
3. PRIOR TO REPAINTING, SURFACES SHALL BE SOLVENT CLEANED TO REMOVE ANY OILS, CONTAMINANTS, RUST, OR DIRT IN ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL SSPC--SP1 "SOLVENT CLEANING" PRIOR TO REPAINTING.
4. PAINT USED TO REPAIR INTERIOR COATING SHALL MATCH THE EXISTING COATING SYSTEM OF THE TANK OR SHALL BE A SIMILAR SYSTEM COMPATIBLE WITH THE EXISTING SYSTEM AND ACCEPTABLE TO THE OWNER. VERIFY EXISTING COATING SYSTEM WITH THE TANK OWNER.
5. UNLESS OTHERWISE APPROVED BY THE TANK OWNER, EXTERIOR STEEL SHALL BE PAINTED WITH 1 COAT EPOXY PRIMER (DFT=5--7 MIL) AND 2 COATS POLYURETHANE FINISH (DFT=4--6 MIL EACH) WITH COLOR TO MATCH EXISTING SURFACE. PAINT SHALL BE AS MANUFACTURED BY SHERWIN WILLIAMS, CLEVELAND, OHIO, (800) 321-8194 OR EQUAL COATING TO MATCH EXISTING. CONTRACTOR SHALL VERIFY OWNER'S PAINT REQUIREMENTS PRIOR TO COMMENCEMENT OF THE WORK.
6. CONTRACTOR SHALL VERIFY THAT COATING SYSTEMS ARE COMPATIBLE WITH THE EXISTING SYSTEMS BY ADHESION TESTING PER ASTM D3359 "MEASURING ADHESION BY TAPE TEST".
7. CONTRACTOR SHALL VERIFY THAT CANS OF THE PRODUCT ARE NOT BEYOND THE MANUFACTURER'S RECOMMENDED SHELF LIFE. ASSURE THOROUGH MIXING OF PREMEASURED TWO COMPONENT COATING SYSTEMS.
8. SURFACE CLEANING SHALL BE FOLLOWED WITH PRIMER COAT ON THE SAME DAY.
9. PAINT MUST BE APPLIED AT SURFACE AND AMBIENT TEMPERATURES BETWEEN 50 DEGREES AND 120 DEGREES FAHRENHEIT. NO PAINTING SHALL BE DONE IF RELATIVE HUMIDITY IS ABOVE 80%%. THE AMBIENT TEMPERATURE BEFORE THE START OF COATING APPLICATION MUST AT BE LEAST 5 DEGREES FAHRENHEIT ABOVE THE DEW POINT AS DETERMINED BY CONVENTIONAL ACCEPTED STANDARDS.
10. PAINT SHALL BE APPLIED USING A NATURAL BRISTLE BRUSH FOR A SMOOTH BRUSH FINISH.
11. PAINT SHALL BE FEATHERED OUT AT TIE-IN AREAS OF EXISTING COATING. PAINT SHALL BE WORKED IN AND AROUND IRREGULARITIES IN THE SURFACE.
12. PAINTING WORK SHALL BE SUBJECT TO INSPECTION ON COMPLETION, AND SHALL BE TOUCHED UP OR RECOATED TO THE SATISFACTION OF THE OWNER.

EARTHWORK & CLEARING NOTES

1. ALL EXCAVATIONS SHALL BE DEWATERED BY PUMPING, PUMPING, ETC. IN A MANNER WHICH WILL NOT LOOSEN FOUNDATION SUBGRADE MATERIAL. SURFACE WATER SHALL BE DIVERTED AWAY FROM EXCAVATIONS BY MEANS OF BERMS, DIVERSION DITCHES, OR OTHER SUITABLE METHODS.
2. CONFINED EXCAVATIONS FOR FOUNDATIONS, UTILITIES, ETC. SHALL BE LIMITED TO 4 FEET IN DEPTH UNLESS SHORING AND BRACING IS USED. TRENCH EXCAVATION GEOMETRY AND/OR BRACING SHALL CONFORM WITH OSHA REQUIREMENTS.
3. BACKFILL SHALL BE PLACED IN MAXIMUM LOOSE LIFT THICKNESSES OF 8 INCHES AND COMPACTED WITH SUITABLE COMPACTION EQUIPMENT. ALL FILL SHALL BE COMPACTED AT LEAST 95% OF MAXIMUM DRY DENSITY PER ASTM D1557. IN CONFINED AREAS WHERE ONLY HAND TAMPING IS FEASIBLE, FILL SHALL BE PLACED IN MAXIMUM 4 INCH LOOSE LIFTS AND COMPACTED TO THE AFOREMENTIONED CRITERIA.
4. TEMPORARY EROSION CONTROL STRUCTURES SHALL BE INSTALLED AS REQUIRED BEFORE SITE IS DISTURBED.
5. ALL FILL SHALL BE CLEAN AND FREE OF LARGE ROCK; NO ORGANIC MATTER SHALL BE PERMITTED.

SITE NOTES

1. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWING.
2. RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
3. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND, FROZEN MATERIALS, SNOW, OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
4. THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
5. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES.
6. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED, OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF THE ENGINEER.
7. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE GUIDELINES FOR EROSION AND SEDIMENT CONTROL, AND COORDINATED WITH THE TOWN.

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SITE ADDRESS

50 EVAN ROAD
WARWICK, NY 10990
ORANGE COUNTY

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-2

PLANNING BOARD APPROVAL

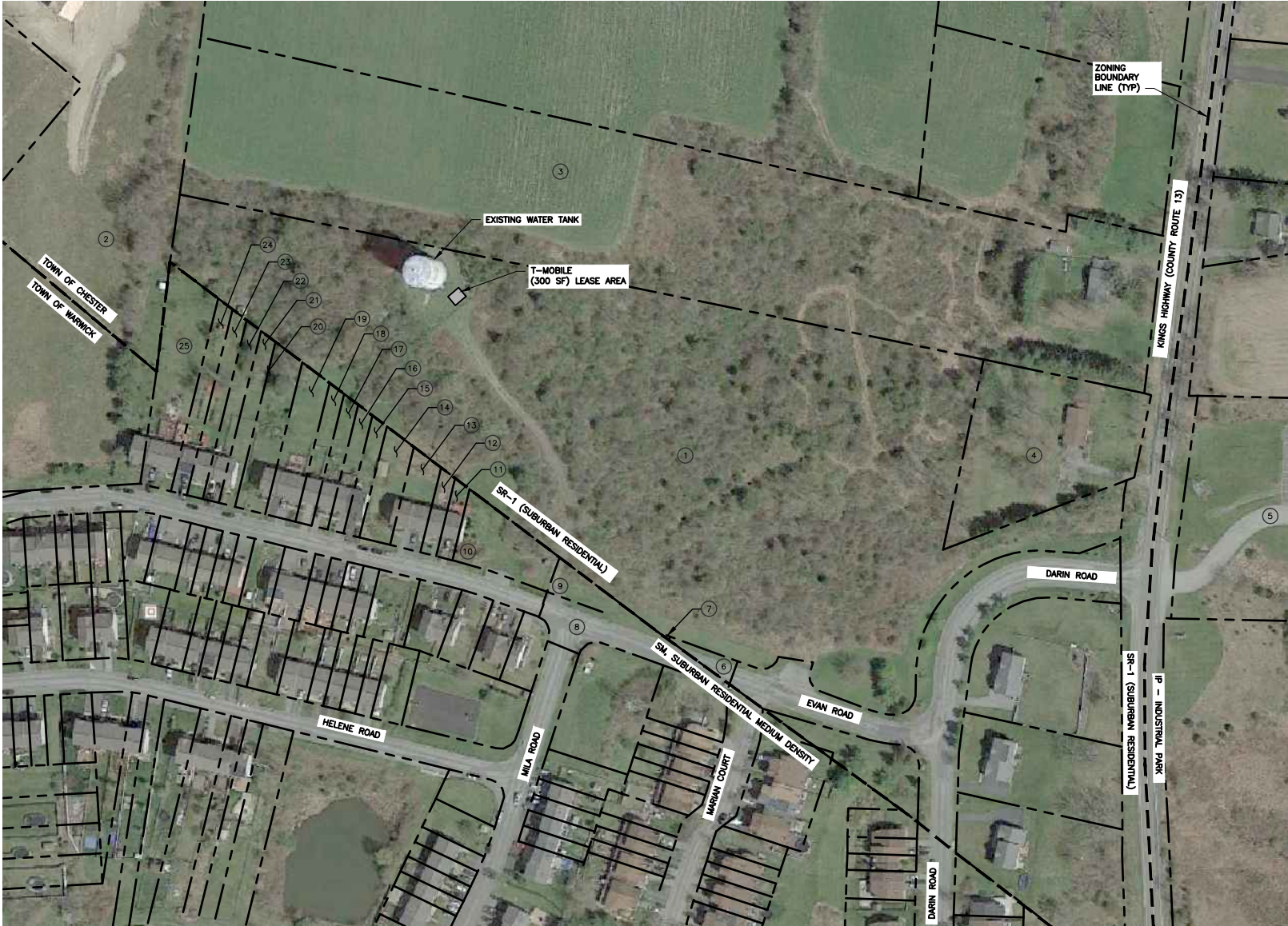
SIGNATURE

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CONFIGURATION

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1
AD-1
ADJOINERS PLAN
SCALE: 1" = 200' (11x17 SIZE)
1" = 100' (22x34 SIZE)

OWNER NAME	PROPERTY ADDRESS	PROPERTY S-B-L
1 KINGS ESTATE LTD	KINGS HWY, CHESTER, NY 10918	17-1-51
2 HAZEN-OPPMAN, DANIELLE	17 WEST MEADOW WAY, CHESTER, NY 10918	17-3-4
3 OPPMANN, ANDREW WILLIAM & HAGENS, CLAUDIA JEANNE	1125 KINGS HWY, CHESTER, NY 10918	17-1-15
4 HUBNER, PAUL	1113 KINGS HWY, CHESTER, NY 10918	17-1-18.2
5 KINGS STORAGE LLC	1108 KINGS HWY, CHESTER, NY 10918	17-1-18.121
6 KINGS ESTATES LTD PARTNERSHIP	EVAN RD, WARWICK NY 10990	32-1-33.11
7 KINGS ESTATES LTD PARTNERSHIP	EVAN RD, WARWICK NY 10990	32-1-32.11
8 KINGS ESTATES LTD PARTNERSHIP	EVAN RD, WARWICK NY 10990	94-5-19
9 PIETERZAK & PFAU ASSOC LLC	EVAN RD, WARWICK NY 10990	94-5-2
10 ROSARIO, DAHIANA J	50 EVAN RD, WARWICK NY 10990	94-5-3
11 WILSON, LESHONDA	52 EVAN RD, WARWICK NY 10990	94-5-4
12 JULIANO, ALFRED M	54 EVAN RD, WARWICK NY 10990	94-5-5
13 HIRSCH, SAMUEL	56 EVAN RD, WARWICK NY 10990	94-5-6
14 DELSATO, VINCIO	58 EVAN RD, WARWICK NY 10990	94-5-7
15 KRAUS, RIFKA	60 EVAN RD, WARWICK NY 10990	94-5-8
16 TRINIDAD, CONCEPCION	62 EVAN RD, WARWICK NY 10990	94-5-9
17 WALKER, CHARLES & SEDONIA A YOUNG	64 EVAN RD, WARWICK NY 10990	94-5-10
18 WASHINGTON, SHARON	66 EVAN RD, WARWICK NY 10990	94-5-11
19 JORDAN, MARTIN T & JO ANN	68 EVAN RD, WARWICK NY 10990	94-5-12
20 OLIVERAS, CHARLES & ESTHER	70 EVAN RD, WARWICK NY 10990	94-5-13
21 BELFORT, MARLENE	72 EVAN RD, WARWICK NY 10990	94-5-14
22 AUSTIN, SOPHIA R	74 EVAN RD, WARWICK NY 10990	94-5-15
23 LEWIS, AUBREY & FUENTES, ELIZABETH	76 EVAN RD, WARWICK NY 10990	94-5-16
24 SMITH, CURTIS & INDIRA KORNEGAY, DEIRDRA	78 EVAN RD, WARWICK NY 10990	94-5-17
25 SCOTT, FRANK R & SONIA D	80 EVAN RD, WARWICK, NY 10990	94-5-18

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SITE INFORMATION

T-MOBILE SITE I.D: NY10152A

SITE ADDRESS

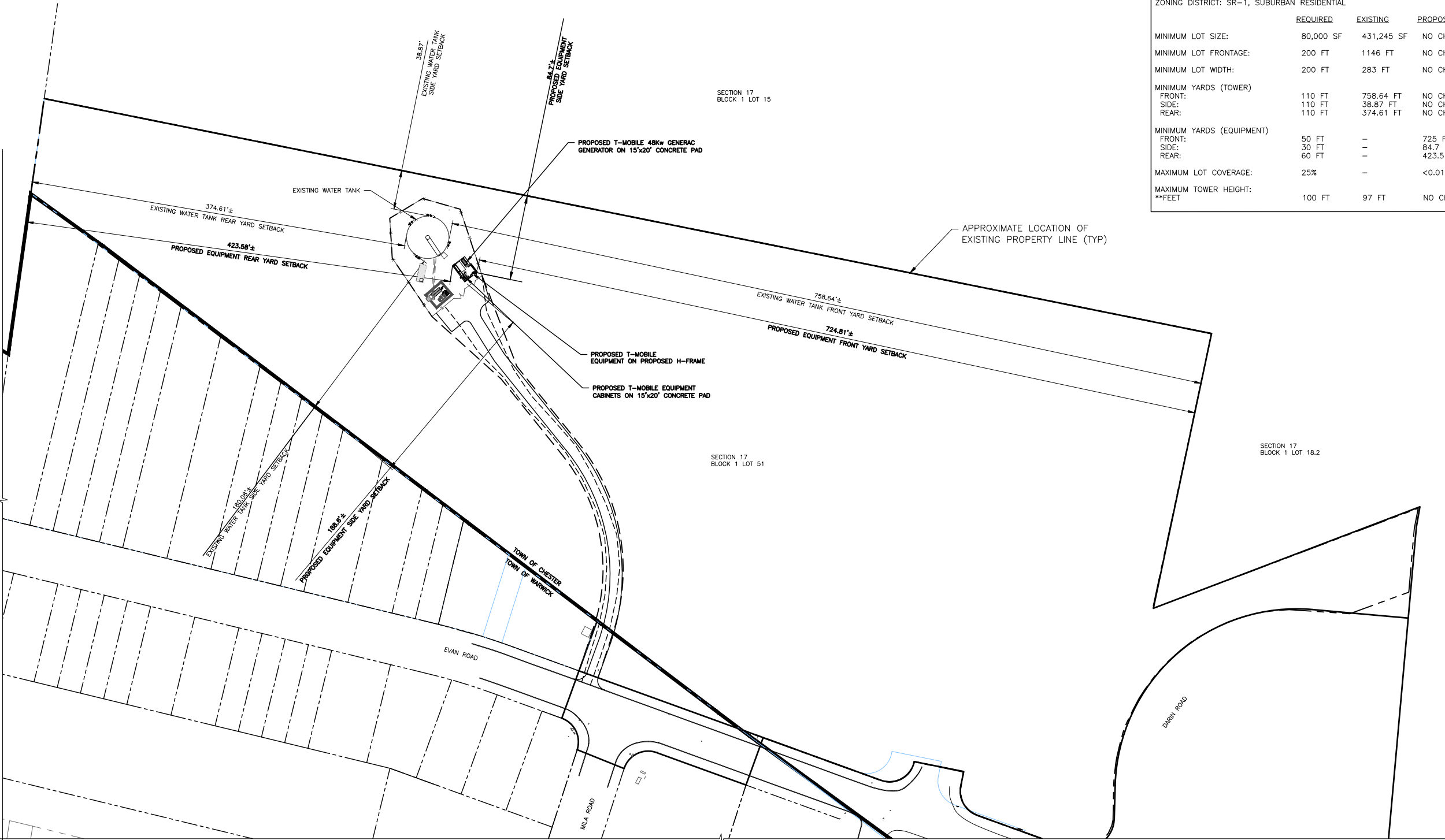
50 EVAN ROAD
WARWICK, NY 10990
ORANGE COUNTY

SHEET TITLE

LOCATION PLAN

SHEET NUMBER

LP-1



NOTE:
THE PROPERTY LINES HEREON ARE APPROXIMATE BASED ON GIS DATA AND ARE FOR ORIENTATION PURPOSES ONLY. THEY DO NOT REPRESENT A PROPERTY/BOUNDARY DECISION BY A LAND SURVEYOR.

LEGEND	
	PROPERTY LINE
	ADJOINING PROPERTY LINE
	EXISTING TREE LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING EDGE OF GRAVEL DRIVE
	EXISTING FENCE
	PROPOSED LEASE LINE
	PROPOSED EASEMENT LINE

OVERALL SITE PLAN
SCALE: 1" = 100' (11x17 SIZE)
1" = 50' (22x34 SIZE)

BULK REQUIREMENTS			
TOWN OF CHESTER ZONING DISTRICT: SR-1, SUBURBAN RESIDENTIAL			
	REQUIRED	EXISTING	PROPOSED
MINIMUM LOT SIZE:	80,000 SF	431,245 SF	NO CHANGE
MINIMUM LOT FRONTAGE:	200 FT	1146 FT	NO CHANGE
MINIMUM LOT WIDTH:	200 FT	283 FT	NO CHANGE
MINIMUM YARDS (TOWER)			
FRONT:	110 FT	758.64 FT	NO CHANGE
SIDE:	110 FT	38.87 FT	NO CHANGE
REAR:	110 FT	374.61 FT	NO CHANGE
MINIMUM YARDS (EQUIPMENT)			
FRONT:	50 FT	-	725 FT
SIDE:	30 FT	-	84.7 FT
REAR:	60 FT	-	423.5 FT
MAXIMUM LOT COVERAGE:	25%	-	<0.01%
MAXIMUM TOWER HEIGHT: **FEET	100 FT	97 FT	NO CHANGE

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Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.
Project Contact Info
1279 Route 300 Newburgh, NY 12550
Phone: (845) 567-6656 (800) 829-6531
www.tectonicengineering.com

T-Mobile
4 SYLVAN WAY
PARSIPPANY, NJ 07054

AMP
COMMUNICATIONS, LLC

ACQUIRE • DESIGN • BUILD • MAINTAIN

PROJECT NUMBER 11072.NY10152A		DESIGNED BY JMQ
REV.	DATE	DESCRIPTION
0	04/29/22	FOR COMMENT
1	06/06/22	FOR CONSTRUCTION
2	08/11/22	FOR FILING

8/17/22

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ORIGINAL SIZE IN INCHES

SITE INFORMATION
T-MOBILE SITE I.D: NY10152A

SITE ADDRESS
50 EVAN ROAD
WARWICK, NY 10990
ORANGE COUNTY

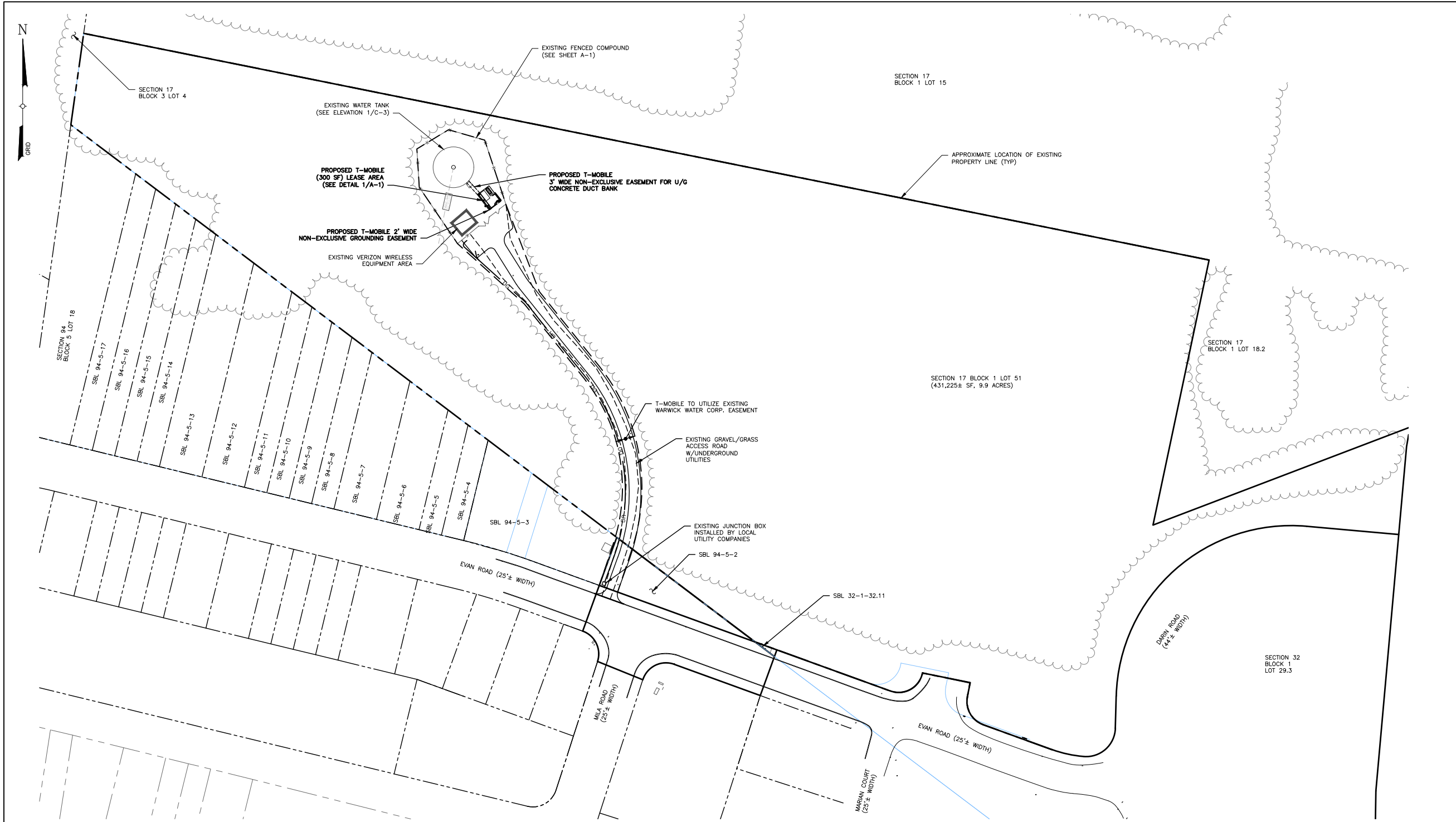
SHEET TITLE
SETBACK MAP

SHEET NUMBER
SB-1

PLANNING BOARD APPROVAL

SIGNATURE _____ DATE _____

CONFIGURATION
4Sec-67E998E 6160
REFER TO LATEST T-MOBILE RF DATA
SHEET FOR FINAL RF DESIGN & BOM



NOTE:
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1
SP-1
OVERALL SITE PLAN
SCALE: 1" = 100' (11x17 SIZE)
1" = 50' (22x34 SIZE)

LEGEND	
	PROPERTY LINE
	ADJOINING PROPERTY LINE
	EXISTING TREE LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING EDGE OF GRAVEL DRIVE
	EXISTING FENCE
	PROPOSED LEASE LINE
	PROPOSED EASEMENT LINE

PLANNING BOARD APPROVAL

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4 SYLVAN WAY
PARSIPPANY, NJ 07054

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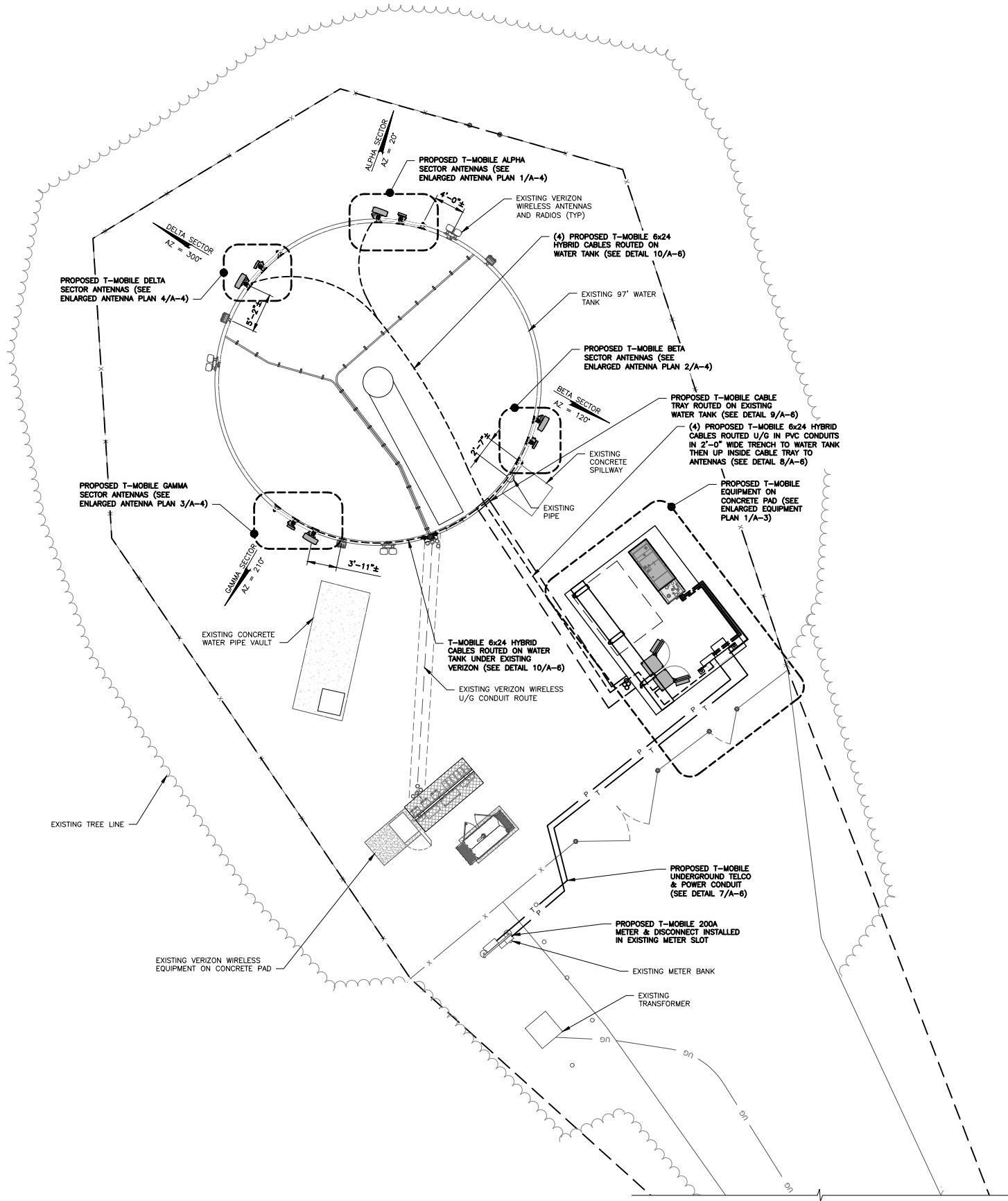
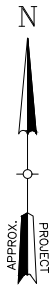
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SITE INFORMATION
T-MOBILE SITE I.D: NY10152A

SITE ADDRESS
50 EVAN ROAD
WARWICK, NY 10990
ORANGE COUNTY

SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
SP-1



1 SITE DETAIL PLAN
A-1 SCALE: 1/8" = 1'-0"

MOUNT NOTE:
REFER TO THE MOUNT ANALYSIS REPORT BY
TECTONIC ENGINEERING CONSULTANTS, GEOLOGIST
& LAND SURVEYORS D.P.C. DATED APRIL 1, 2022.
WATER TANK NOTE:
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BY TECTONIC ENGINEERING CONSULTANTS, GEOLOGIST
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SITE ADDRESS
50 EVAN ROAD
WARWICK, NY 10990
ORANGE COUNTY

SHEET TITLE
SITE DETAIL PLAN

SHEET NUMBER

A-1

PLANNING BOARD APPROVAL

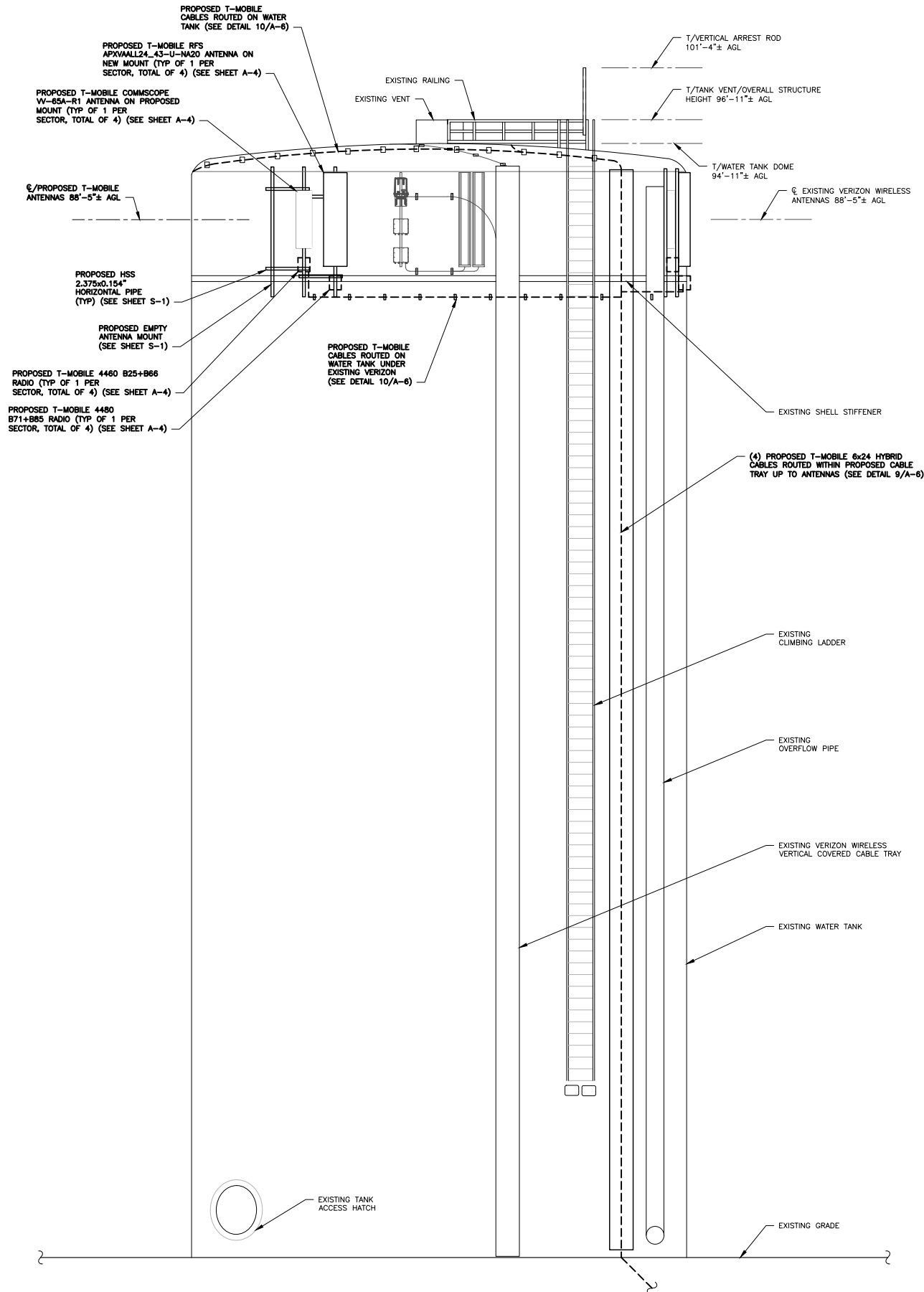
SIGNATURE

DATE

CONFIGURATION

4Sec-67E998E 6160

REFER TO LATEST T-MOBILE RF DATA
SHEET FOR FINAL RF DESIGN & BOM



ELEVATION NOTE:
ELEVATION OF TOP OF WATER TANK HAS BEEN ASSIGNED AT EL. 818'-11"± WHICH IS 96'-11"± ABOVE GRADE WHICH WAS WHICH WAS MEASURED AS EL. 722'-0"± PER A FAA-1A BY NORTHEAST TOWER SURVEYING, LLC DATED 05/13/22. ALL OTHER ELEVATIONS INDICATED WERE DETERMINED ON THIS BASIS.

SAFETY CLIMB NOTE:
THE INTENT OF THE DESIGN/RETROFIT IS TO NOT IMPACT THE SAFETY CLIMBING SYSTEM IN ANY WAY. IF CONTRACTOR FINDS THAT THE INFORMATION PROVIDED INTERFERES WITH ANY PART OF THE SAFETY CLIMB SYSTEM, THE ENGINEER OF RECORD SHOULD BE CONTACTED IMMEDIATELY.

1
A-2
ELEVATION
SCALE: 1/8" = 1'-0"

MOUNT NOTE:
REFER TO THE MOUNT ANALYSIS REPORT BY TECTONIC ENGINEERING CONSULTANTS, GEOLOGIST & LAND SURVEYORS D.P.C. DATED APRIL 1, 2022.
WATER TANK NOTE:
REFER TO THE TANK COMPARATIVE ANALYSIS REPORT BY TECTONIC ENGINEERING CONSULTANTS, GEOLOGIST & LAND SURVEYORS D.P.C. DATED APRIL 1, 2022.

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4 SYLVAN WAY
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ORIGINAL SIZE IN INCHES

SITE INFORMATION

T-MOBILE SITE I.D: NY10152A

SITE ADDRESS

50 EVAN ROAD
WARWICK, NY 10990
ORANGE COUNTY

SHEET TITLE

ELEVATION

SHEET NUMBER

A-2

PLANNING BOARD APPROVAL

SIGNATURE _____ DATE _____

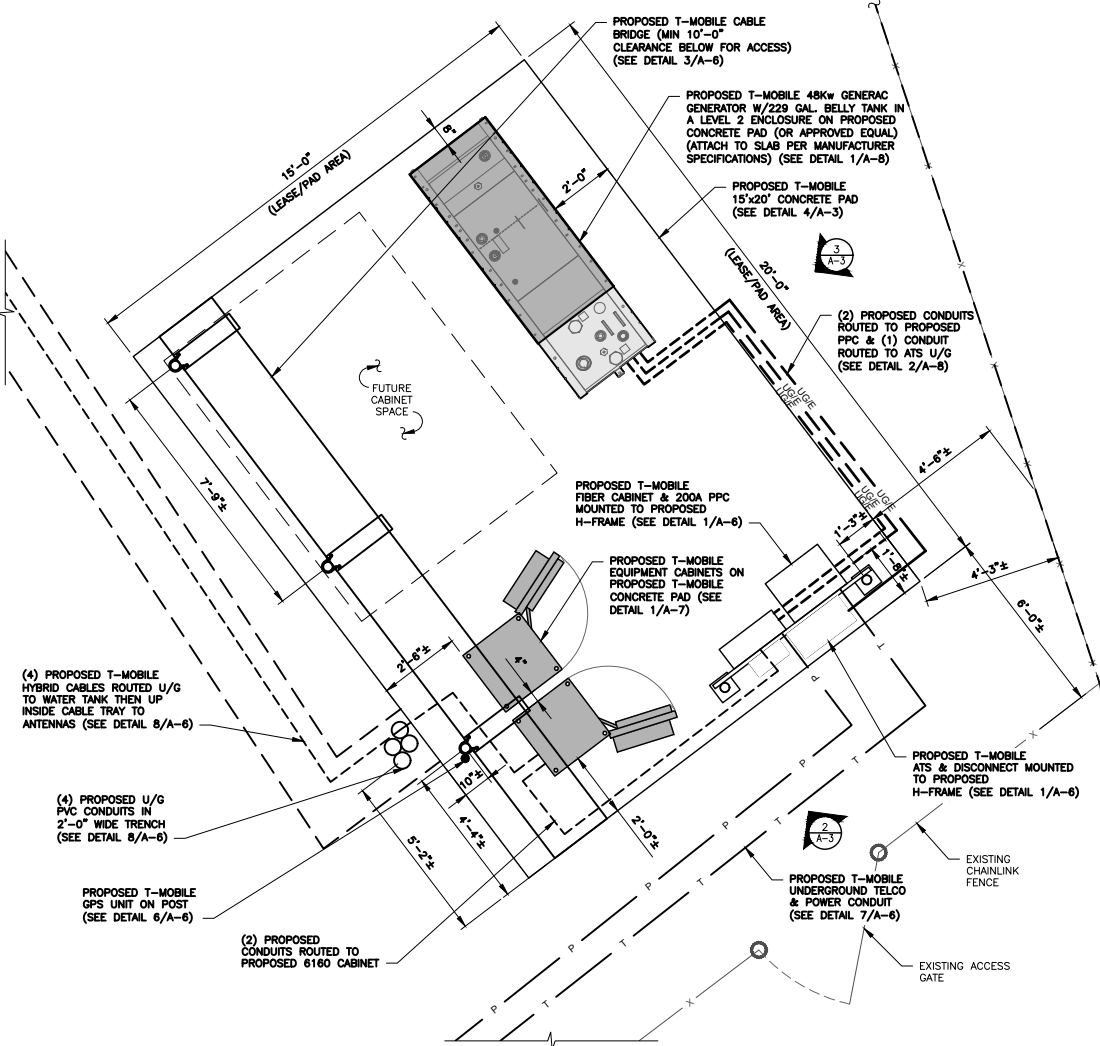
CONFIGURATION

4Sec-67E998E 6160

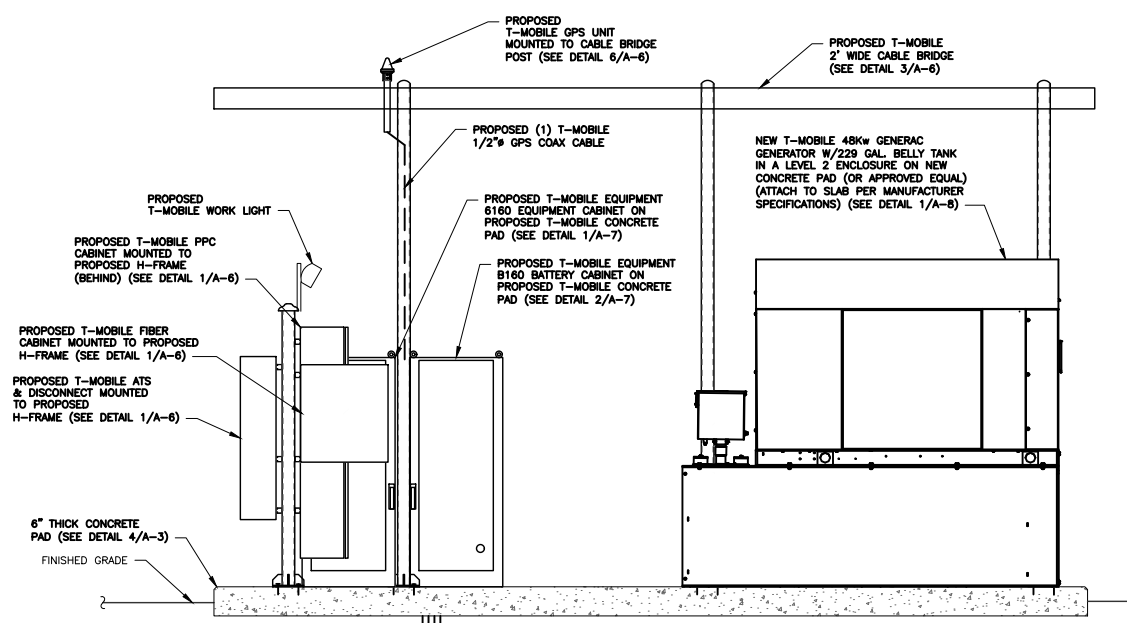
REFER TO LATEST T-MOBILE RF DATA
SHEET FOR FINAL RF DESIGN & BOM



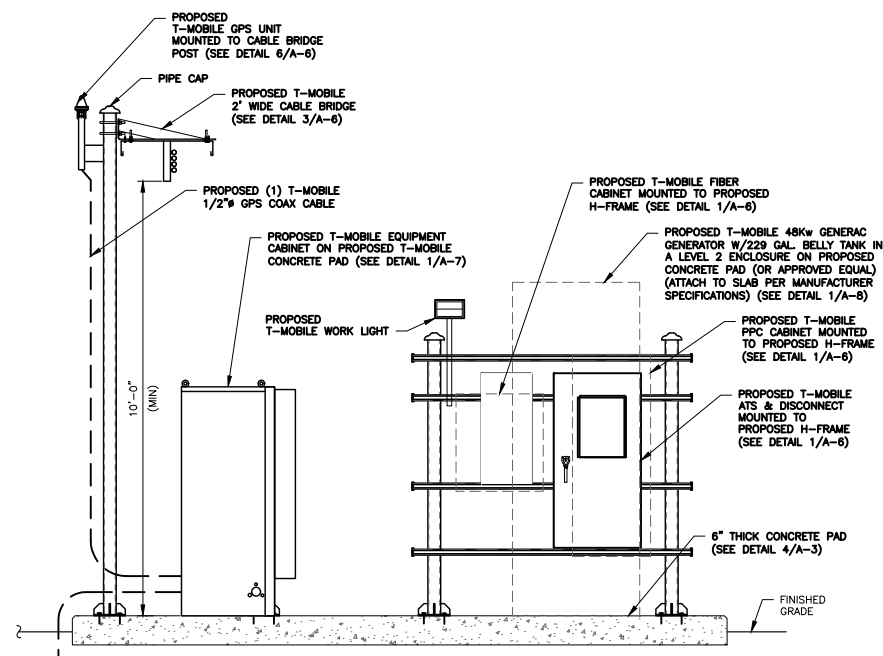
NORTH NOTE:
NORTH SHOWN HAS BEEN ESTABLISHED USING THE USGS
QUADRANGLE 7.5 MINUTE MAPS AND IS APPROXIMATE. VERIFY TRUE
NORTH PRIOR TO INSTALLATION OF ANTENNAS.



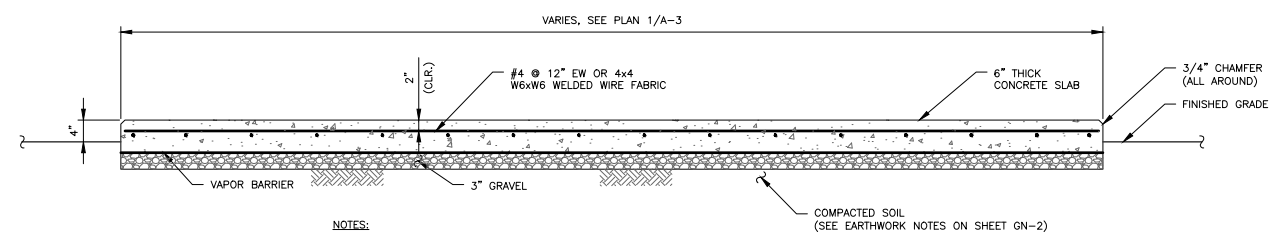
1
A-3
EQUIPMENT PAD PLAN
SCALE: 3/8" = 1'-0"



3
A-3
SECTION
SCALE: 1/2" = 1'-0"



2
A-3
SECTION
SCALE: 1/2" = 1'-0"



- NOTES:
1. CONCRETE PAD IS TO BE CAST IN PLACE.
 2. USE GALVANIZED HILTI EXPANSION ANCHORS OR APPROVED EQUAL FOR EQUIPMENT ANCHORAGE.
 3. FOR SIZE AND LOCATION OF ANCHORS AND OTHER REQUIREMENTS, SEE EQUIPMENT VENDOR DRAWINGS.
 4. PLACE PROPOSED CONCRETE SLAB ON MIN. 8" COMPACTED SUB-BASE.
 5. EQUIPMENT CABINETS NOT SHOWN FOR CLARITY.

4
A-3
CONCRETE SLAB SECTION
SCALE: N.T.S.

PLANNING BOARD APPROVAL

SIGNATURE _____ DATE _____

CONFIGURATION
4Sec-67E998E 6160
REFER TO LATEST T-MOBILE RF DATA
SHEET FOR FINAL RF DESIGN & BOM

MOUNT NOTE:
REFER TO THE MOUNT ANALYSIS REPORT BY
TECTONIC ENGINEERING CONSULTANTS, GEOLOGIST
& LAND SURVEYORS D.P.C. DATED APRIL 1, 2022.

WATER TANK NOTE:
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BY TECTONIC ENGINEERING CONSULTANTS, GEOLOGIST
& LAND SURVEYORS D.P.C. DATED APRIL 1, 2022.

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4 SYLVAN WAY
PARSIPPANY, NJ 07054

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PROJECT NUMBER 11072.NY10152A DESIGNED BY JMQ

REV.	DATE	DESCRIPTION	DRAWN BY
0	04/29/22	FOR COMMENT	BWY
1	06/06/22	FOR CONSTRUCTION	JMQ
2	08/11/22	FOR FILING	JMQ

STATE OF NEW YORK
ANTONIO A. GUALTIERI
LICENSED PROFESSIONAL ENGINEER
071249
8/17/22

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ORIGINAL SIZE IN INCHES

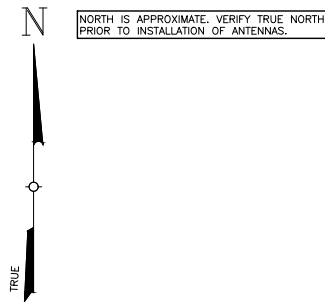
SITE INFORMATION
T-MOBILE SITE I.D: NY10152A

SITE ADDRESS
50 EVAN ROAD
WARWICK, NY 10990
ORANGE COUNTY

SHEET TITLE
EQUIPMENT PLAN
& ELEVATIONS

SHEET NUMBER

A-3



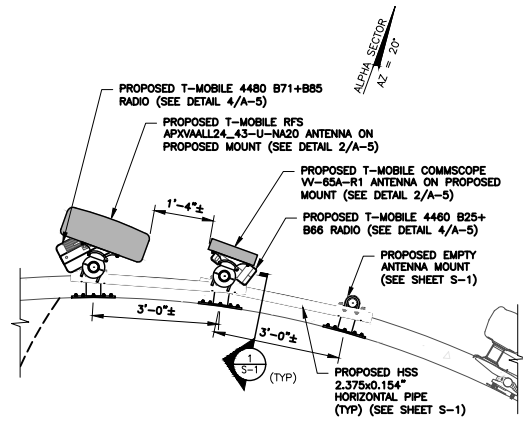
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ANTENNA AND COAXIAL CABLE SCHEDULE

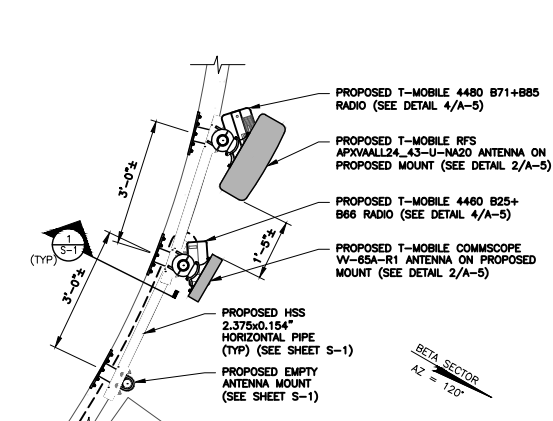
SECTOR MARK	ANTENNA MODEL	AZIMUTH	ELEC. DOWNTILT	MECH. DOWNTILT	ANTENNA CENTERLINE	SECTOR	TMA/RADIO	CABLE	JUMPER TYPE	CABLE LENGTH
A-1 L700/L600/N600	RFS APXVALL24_43-U-NA20	20°	8°/8°	0°	88°-5"	ALPHA	0/1 RADIO 4460	(1) NEW 6x24 HCS HYBRID FIBER CABLE	1/2" COAX	195'-0"
A-2 L1900/L2100/G1900	COMMSCOPE VW-65A-R1	20°	4°/4°	0°	88°-5"	ALPHA	0/1 RADIO 4460	SHARED 6x24 HCS HYBRID FIBER CABLE	1/2" COAX	195'-0"
A-3	EMPTY PIPE	NA	NA	NA	88°-5"	ALPHA	NA	NA		
B-1 L700/L600/N600	RFS APXVALL24_43-U-NA20	120°	8°/8°	0°	88°-5"	BETA	0/1 RADIO 4460	(1) NEW 6x24 HCS HYBRID FIBER CABLE	1/2" COAX	160'-0"
B-2 L1900/L2100/G1900	COMMSCOPE VW-65A-R1	120°	4°/4°	0°	88°-5"	BETA	0/1 RADIO 4460	SHARED 6x24 HCS HYBRID FIBER CABLE	1/2" COAX	160'-0"
B-3	EMPTY PIPE	NA	NA	NA	88°-5"	BETA	NA	NA		
G-1 L700/L600/N600	RFS APXVALL24_43-U-NA20	210°	8°/8°	0°	88°-5"	GAMMA	0/1 RADIO 4460	(1) NEW 6x24 HCS HYBRID FIBER CABLE	1/2" COAX	175'-0"
G-2 L1900/L2100/G1900	COMMSCOPE VW-65A-R1	210°	4°/4°	0°	88°-5"	GAMMA	0/1 RADIO 4460	SHARED 6x24 HCS HYBRID FIBER CABLE	1/2" COAX	175'-0"
G-3	EMPTY PIPE	NA	NA	NA	88°-5"	GAMMA	NA	NA		
D-1 L700/L600/N600	RFS APXVALL24_43-U-NA20	300°	8°/8°	0°	88°-5"	DELTA	0/1 RADIO 4460	(1) NEW 6x24 HCS HYBRID FIBER CABLE	1/2" COAX	195'-0"
D-2 L1900/L2100/G1900	COMMSCOPE VW-65A-R1	300°	4°/4°	0°	88°-5"	DELTA	0/1 RADIO 4460	SHARED 6x24 HCS HYBRID FIBER CABLE	1/2" COAX	195'-0"
D-3	EMPTY PIPE	NA	NA	NA	88°-5"	DELTA	NA	NA		

NOTE:
• INFORMATION BASED ON RFDS REVISION 1, DATED 06/03/2022. CHECK WITH RF ENGINEER FOR LATEST RFDS.



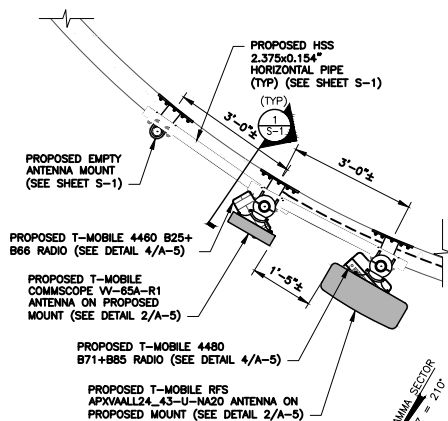
NOTE: SEE 1/A-1 FOR NEAREST POINT OF REFERENCE FOR LOCATION OF PROPOSED ANTENNA MOUNTS.

1 ALPHA SECTOR ANTENNA PLAN
A-4 SCALE: 1/2" = 1'-0"



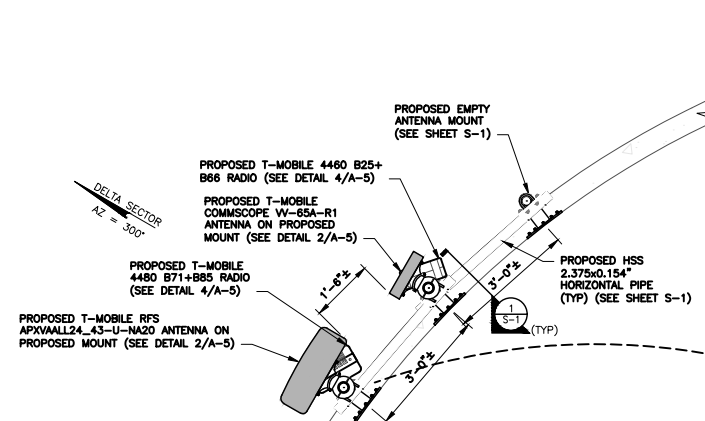
NOTE: SEE 1/A-1 FOR NEAREST POINT OF REFERENCE FOR LOCATION OF PROPOSED ANTENNA MOUNTS.

2 BETA SECTOR ANTENNA PLAN
A-4 SCALE: 1/2" = 1'-0"



NOTE: SEE 1/A-1 FOR NEAREST POINT OF REFERENCE FOR LOCATION OF PROPOSED ANTENNA MOUNTS.

3 GAMMA SECTOR ANTENNA PLAN
A-4 SCALE: 1/2" = 1'-0"



NOTE: SEE 1/A-1 FOR NEAREST POINT OF REFERENCE FOR LOCATION OF PROPOSED ANTENNA MOUNTS.

4 DELTA SECTOR ANTENNA PLAN
A-4 SCALE: 1/2" = 1'-0"

PLANNING BOARD APPROVAL

SIGNATURE

DATE

CONFIGURATION

4Sec-67E998E 6160

REFER TO LATEST T-MOBILE RF DATA SHEET FOR FINAL RF DESIGN & BOM



4 SYLVAN WAY
PARSIPPANY, NJ 07054



ACQUIRE • DESIGN • BUILD • MAINTAIN

PROJECT NUMBER			DESIGNED BY
11072.NY10152A			JMQ
REV.	DATE	DESCRIPTION	DRAWN BY
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SITE INFORMATION

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50 EVAN ROAD
WARWICK, NY 10990
ORANGE COUNTY

SHEET TITLE

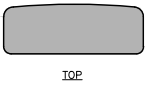
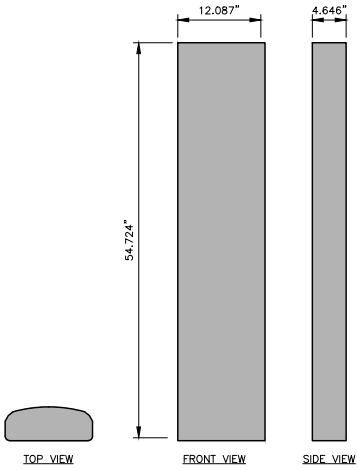
ANTENNA PLANS
& SCHEDULE

SHEET NUMBER

A-4

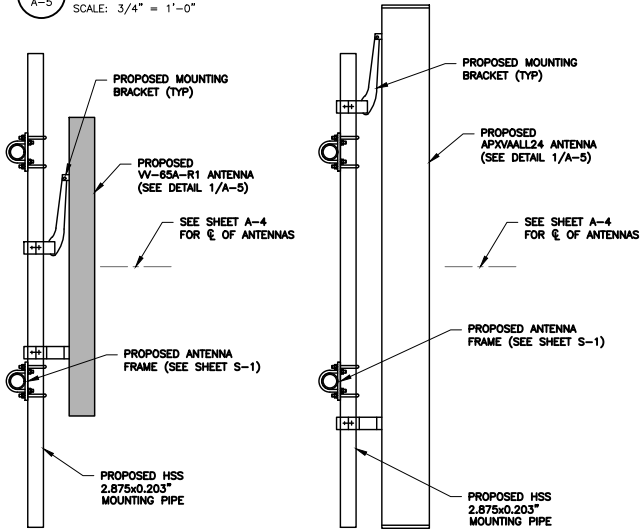
MANUFACTURER:		COMMSCOPE
MODEL NO.:		VV-65A-R1
DIMENSIONS		TOTAL WEIGHT: 23.81 LBS
A	54.724"	
B	12.087"	
C	4.646"	

MANUFACTURER:		RFS
MODEL NO.:		APXVALL24_43-U-NA20
DIMENSIONS		TOTAL WEIGHT: 122.8 LBS
A	95.9"	
B	24.0"	
C	8.5"	



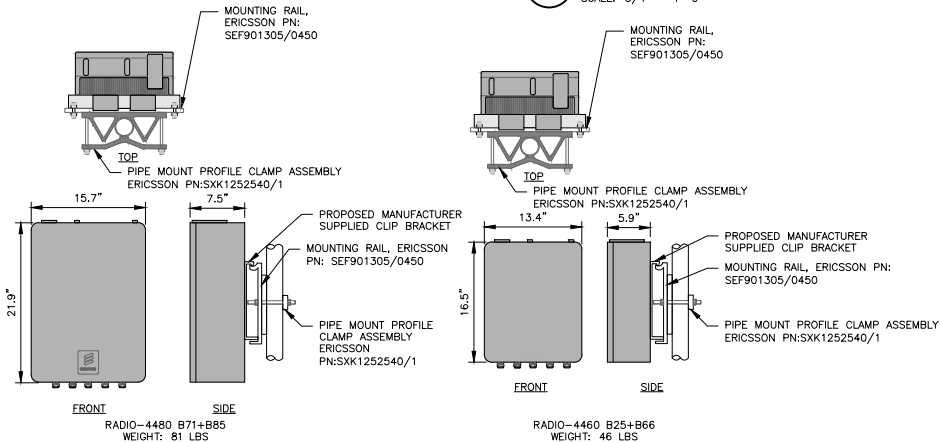
1 ANTENNA DETAILS

SCALE: 3/4" = 1'-0"



2 ANTENNA MOUNTING DETAILS

SCALE: 3/4" = 1'-0"

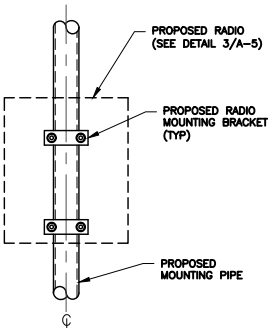


3 RADIO DETAILS

SCALE: 1" = 1'-0"

4 RADIO MOUNTING DETAIL

SCALE: 1" = 1'-0"



PLANNING BOARD APPROVAL

SIGNATURE DATE

CONFIGURATION

4Sec-67E998E 6160

REFER TO LATEST T-MOBILE RF DATA SHEET FOR FINAL RF DESIGN & BOM

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Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.
Project Contact Info
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Newburgh, NY 12550 (800) 829-6531
www.tectonicengineering.com

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4 SYLVAN WAY
PARSIPPANY, NJ 07054

AMP
COMMUNICATIONS, LLC

ACQUIRE • DESIGN • BUILD • MAINTAIN

PROJECT NUMBER 11072.NY10152A			DESIGNED BY JMQ
REV.	DATE	DESCRIPTION	DRAWN BY
0	04/29/22	FOR COMMENT	BWY
1	06/06/22	FOR CONSTRUCTION	JMQ
2	08/11/22	FOR FILING	JMQ



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ORIGINAL SIZE IN INCHES

SITE INFORMATION

T-MOBILE SITE I.D: NY10152A

SITE ADDRESS

50 EVAN ROAD
WARWICK, NY 10990
ORANGE COUNTY

SHEET TITLE

ANTENNA &
EQUIPMENT DETAILS

SHEET NUMBER

A-5

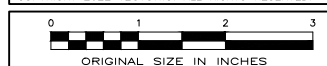


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SITE ADDRESS

50 EVAN ROAD

WARWICK, NY 10990

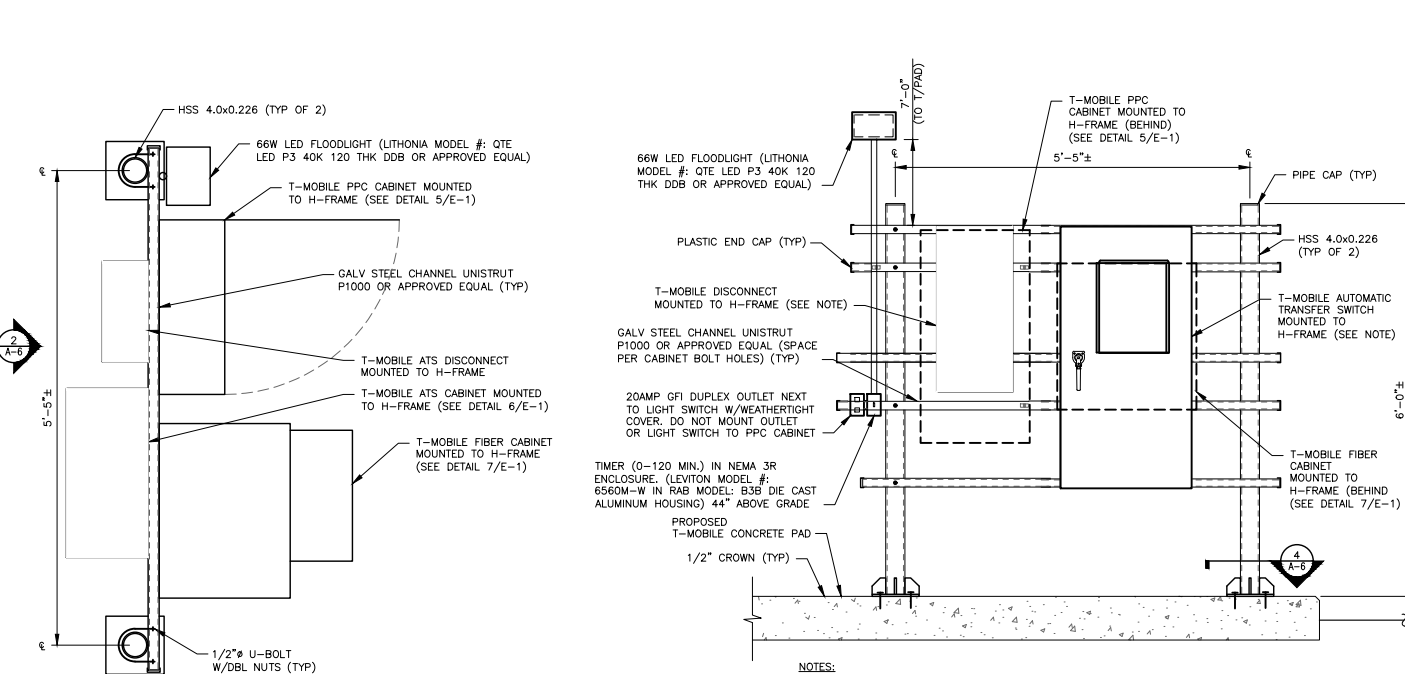
ORANGE COUNTY

SHEET TITLE

SITE DETAILS

SHEET NUMBER

A-6

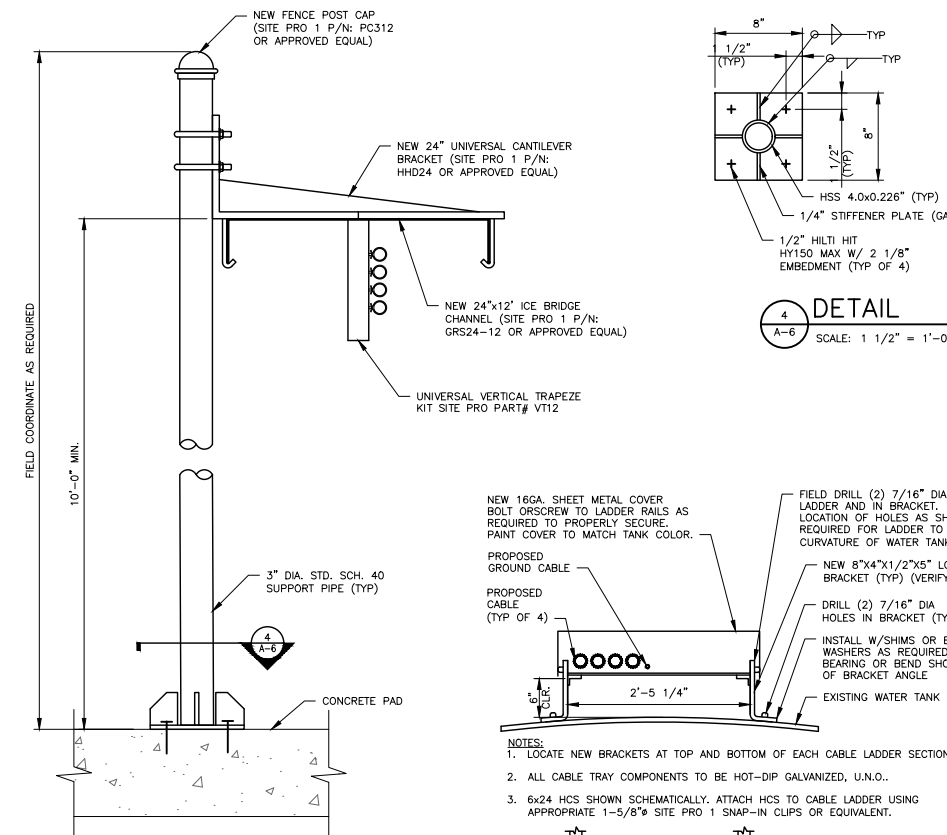


NOTE: INSTALL CAPS ON ALL OPEN POSTS.

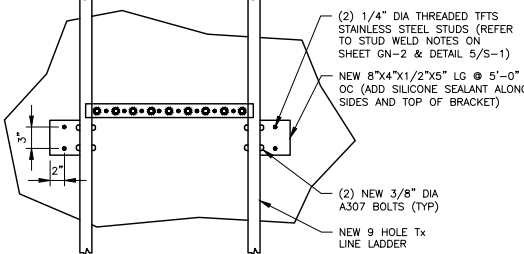
UTILITY H-FRAME PLAN
SCALE: 1" = 1'-0"

- NOTES:
1. ALL EQUIPMENT SHALL BE GROUNDED.
 2. ALL ELECTRICAL ENCLOSURES TO BE NEMA 3R RATED.
 3. SEE SITE PLAN FOR GENERAL ROUTING OF ALL CONDUITS. DETERMINE EXACT ROUTINGS IN FIELD.
 4. ELECTRICAL EQUIPMENT SHALL BE MIN. 3'-0" FROM ANY STRUCTURE.
 5. ALL COVERPLATES TO BE WEATHERPROOF.
 6. PROPOSED CONDUITS NOT SHOWN FOR CLARITY.
 7. INSTALL CAPS ON ALL OPEN POSTS.
 8. CONTRACTOR SHALL VERIFY STRUT SPACING, AUTOMATIC TRANSFER SWITCH, AND DISCONNECT ATTACHMENT WITH MANUFACTURER SPECIFICATIONS.

H-FRAME ELEVATION
SCALE: 3/4" = 1'-0"

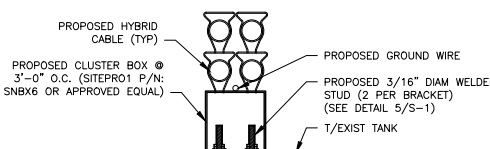


ICE BRIDGE DETAIL
SCALE: 1-1/2" = 1'-0"



NOTE: CABLES AND COVER NOT SHOWN FOR CLARITY.

VERTICAL CABLE LADDER
SCALE: NTS



CONNECTION DETAIL
SCALE: 1-1/2" = 1'-0"

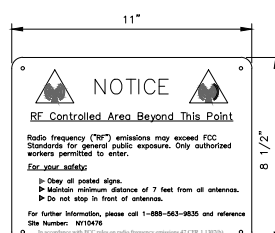
PLANNING BOARD APPROVAL

SIGNATURE DATE

CONFIGURATION

4Sec-67E998E 6160

REFER TO LATEST T-MOBILE RF DATA SHEET FOR FINAL RF DESIGN & BOM

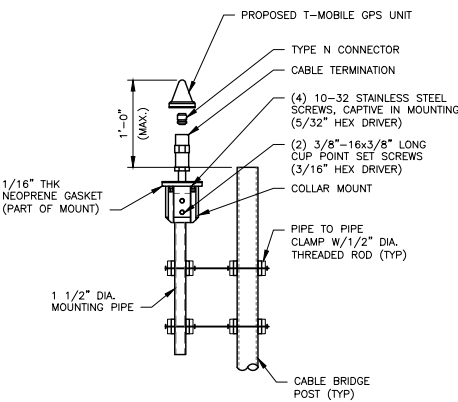


RF NOTICE SIGN

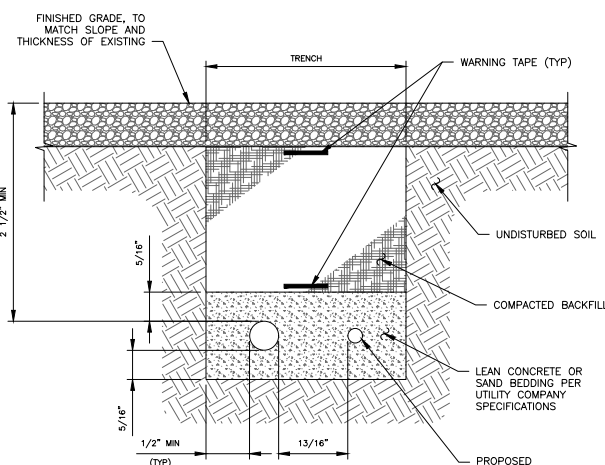


EMERGENCY SIGN

SIGN DETAILS
SCALE: 3" = 1'-0"

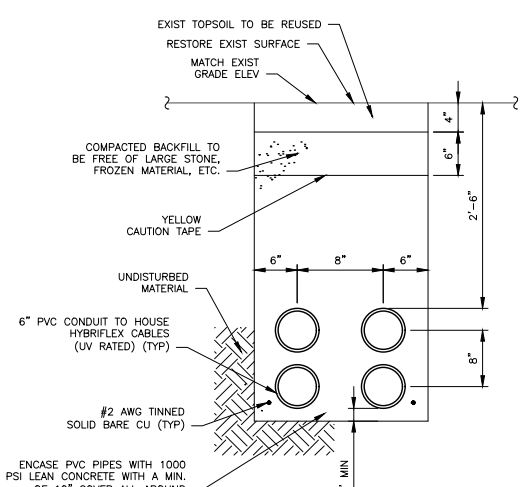


GPS ANTENNA MOUNT
SCALE: 1" = 1'-0"

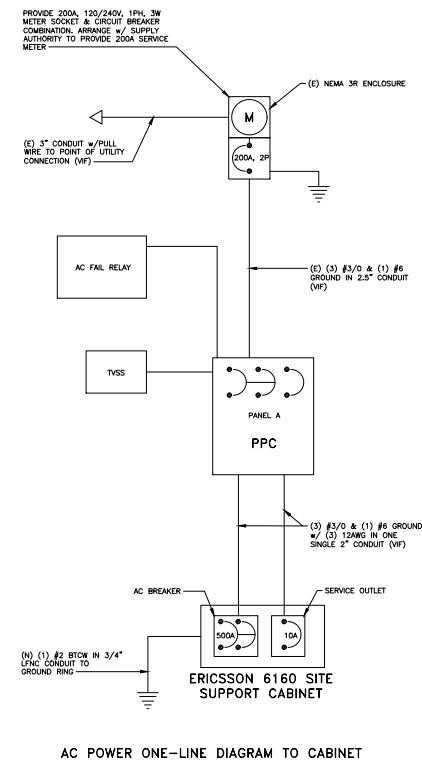
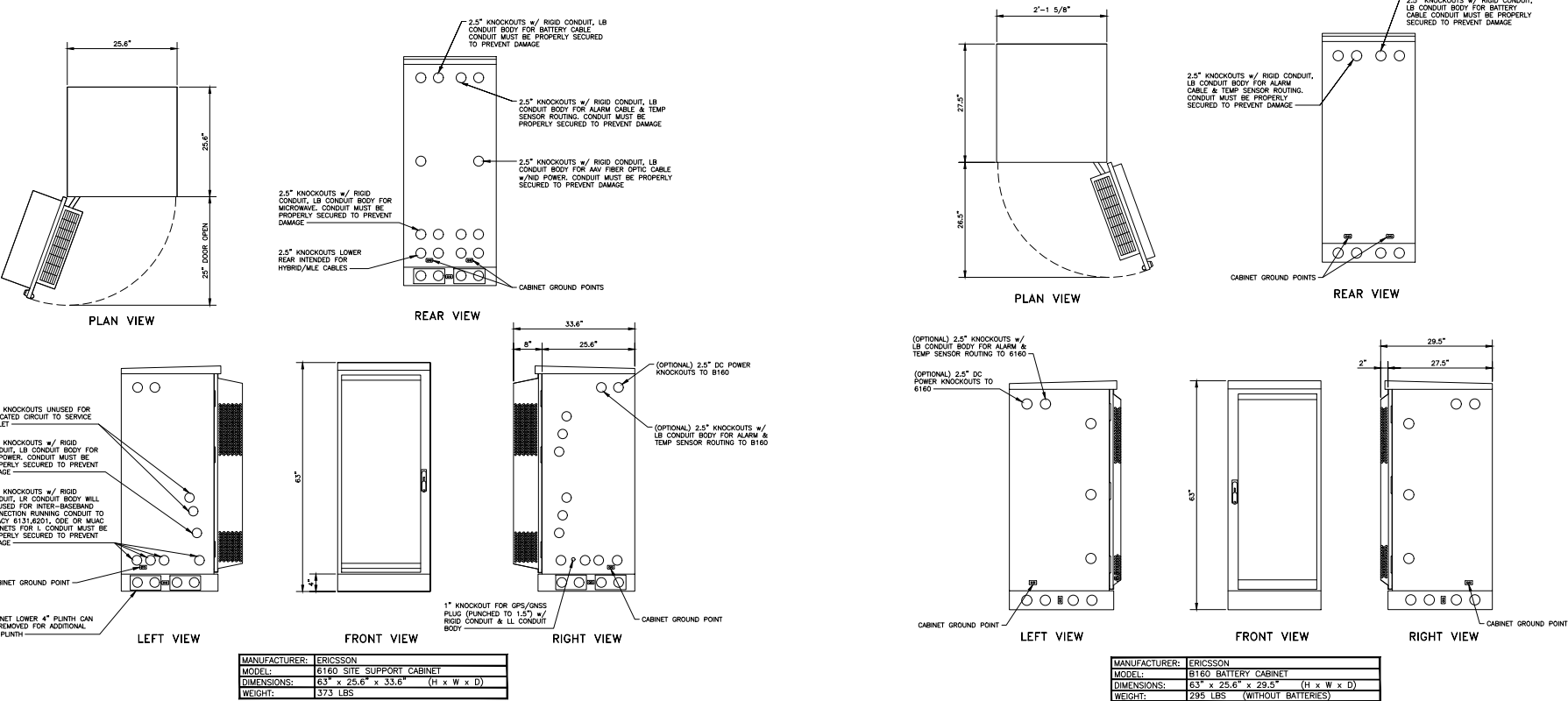


- NOTES:
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 2. SCH 40 PVC CONDUIT SHALL BE USED BELOW GRADE.
 3. SCH 80 PVC CONDUIT SHALL BE USED UNDER ROADWAY.

ELECTRIC/TELEPHONE TRENCH DETAIL
SCALE: 1/2" = 1'-0" (11x17 SIZE)
1" = 1'-0" (22x34 SIZE)



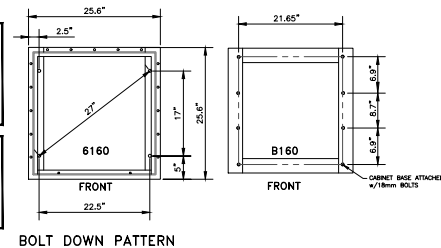
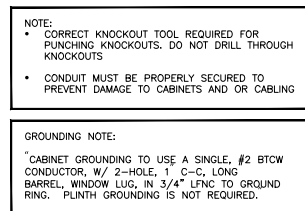
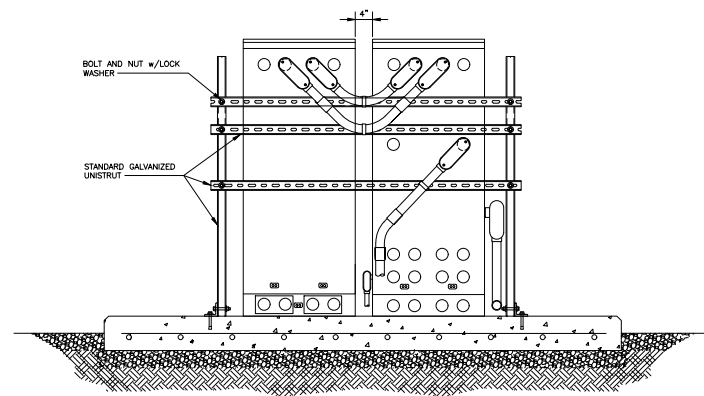
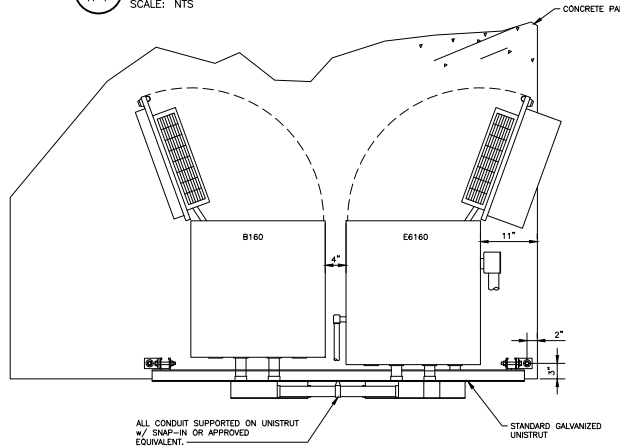
CABLE TRENCH DETAIL
SCALE: NTS



1 EQUIPMENT CABINET SPECIFICATIONS
SCALE: NTS

2 EQUIPMENT CABINET SPECIFICATIONS
SCALE: NTS

3 ONE LINE DIAGRAM
SCALE: NTS



5 BOLTING AND GROUNDING
SCALE: NTS

PLANNING BOARD APPROVAL

SIGNATURE _____ DATE _____

4 GENERIC CONDUIT SUPPORT FRAME
SCALE: NTS

CONFIGURATION
4Sec-67E998E 6160
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REV. DATE DESCRIPTION DRAWN BY
0 04/29/22 FOR COMMENT BWY
1 06/06/22 FOR CONSTRUCTION JMQ
2 08/11/22 FOR FILING JMQ

STATE OF NEW YORK
ANTONIO A. GUALTIERI
LICENSED PROFESSIONAL ENGINEER
071249
8/17/22

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0 1 2 3
ORIGINAL SIZE IN INCHES

SITE INFORMATION
T-MOBILE SITE I.D: NY10152A

SITE ADDRESS
50 EVAN ROAD
WARWICK, NY 10990
ORANGE COUNTY

SHEET TITLE
EQUIPMENT CABINET DETAILS

SHEET NUMBER
A-7

RD048 | 3.4L | 48kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency

GENERAC INDUSTRIAL POWER

Model Number:
48kW: G0071940

Standby Power Rating
48 kW, 60 Hz

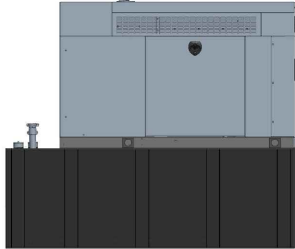


Image used for illustration purposes only

CODES AND STANDARDS
Not all codes and standards apply to all configurations.
Contact factory for details.



POWERING AHEAD

For over 50 years, Generac has led the industry with innovative design and superior manufacturing. Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac's gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application. Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial application under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

RD048 | 3.4L | 48kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency

GENERAC INDUSTRIAL POWER

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General	Generac	Cooling System	
Make	Generac	Cooling System Type	Pressurized Closed Recovery
Cylinder #	4	Fan Type	Pusher
Type	In-Line	Fan Speed (rpm)	2,029
Displacement - in ³ (L)	207.48 (3.4)	Fan Diameter - mm (in)	22 (559)
Bore - in (mm)	3.88 (98)	Fuel System	
Stroke - in (mm)	4.45 (113)	Fuel Type	Ultra Low Sulfur Diesel Fuel
Compression Ratio	18.5:1	Fuel Specification	ASTM
Intake Air Method	Turbocharged/Aftercooled	Fuel Pump Type	Mechanical Engine Driven Gear
Cylinder Head	Cast Iron OHV	Injector Type	Mechanical
Piston Type	Aluminum	Fuel Supply Line (mm/in)	7.94 (0.31) ID
Engine Governing		Fuel Return Line (mm/in)	7.94 (0.31) ID
Governor	Electronic	Fuel Filtering (microns)	10
Frequency Regulation (Steady State)	±0.25%	Engine Electrical System	
Lubrication System		System Voltage	12 VDC
Oil Pump Type	Gear	Battery Charger Alternator	Standard
Oil Filter Type	Full Flow Spin-On Canister	Battery Size	Group 27F
Crankcase Capacity - L (qt)	7.0 (7.4)	Battery Voltage	12 VDC
		Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	Generac	Standard Excitation	Direct
Poles	4	Bearings	Sealed Ball
Field Type	Rotating	Coupling	Flexible Disc
Insulation Class - Rotor	F	Prototype Short Circuit Test	Yes
Insulation Class - Stator	H	Voltage Regulator Type	Full Digital
Total Harmonic Distortion	<5%	Regulation Accuracy (Steady State)	±1.0%
Telephone Interference Factor (TIF)	<50		

RD048 | 3.4L | 48kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency

GENERAC INDUSTRIAL POWER

OPERATING DATA

POWER RATINGS

Standby			
Single-Phase 120/240 VAC @1.0pf	48 kW	Amps: 200	Circuit Breaker Size Amps: 200

STARTING CAPABILITIES (sKVA)

sKVA vs. Voltage Dip at 30%	
120/240 V, Single-Phase at 0.4pf	189

FUEL CONSUMPTION RATES*

Percent Load	Diesel gal/hr (L/hr)
25%	1.35 (5.11)
50%	2.15 (8.14)
75%	3.06 (11.58)
100%	3.98 (15.07)

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

	Standby
Air Flow (Radiator and Alternator)	cfm (m ³ /min) 2824 (80)
Coolant System Capacity	gal (l) 2.8 (10.6)
Heat Rejection to Coolant	BTU/hr (MJ/hr) 135,900 (143.4)
Temperature Deration	3% for every 5°F above 25°C or 1.7% for every 5°F over 77°F
Altitude Deration	1% for every 100 m above 915 or 3% for every 1000 ft over 3000 ft
Maximum Ambient Temperature Operating Range	°F (°C) -20 - 122 (-28 - 50)
Maximum Radiator Backpressure	in H ₂ O 0.5

COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power cfm (m ³ /min)	190 (5.36)

ENGINE

EXHAUST

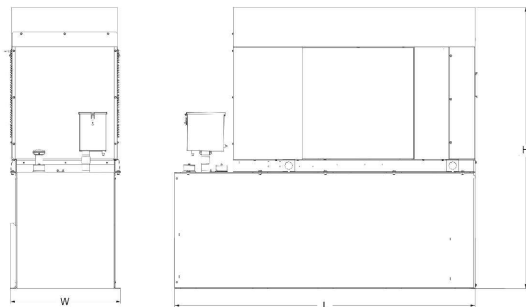
	Standby		Standby
Rated Engine Speed	rpm 1800	Exhaust Flow (Rated Output)	cfm (m ³ /min) 449 (12.7)
		Exhaust Temp (Rated Output - Post Silencer)	°F (°C) 1120 (604.4)

Disclaimer - Operational characteristics consider maximum ambient conditions. Derate factors may apply under physical lab conditions. Please consult a Generac Power Systems Dealer for additional details. All performance ratings in accordance with ISO9004, ISO14001, ISO26000 and DIN9211 standards.

RD048 | 3.4L | 48kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency

GENERAC INDUSTRIAL POWER

DIMENSIONS AND WEIGHTS*



Weights and Dimensions

Unit Weight - lbs	Unit Weight with Skid - lbs	Dimensions (L x W x H) - in
2,915	2,954	103.4 (2,625) x 35.0 (888) x 90.0 (2,286)

48kW Fuel Consumption

Fuel Tank Gross Total Capacity	240
Fuel Tank Gross Usable Capacity	229
Fuel Tank Net Usable Capacity (Run Hours Based on Net Usable Capacity)	206
Run Hours 100% Load	52
Run Hours 75% Load	67
Run Hours 50% Load	96

Sound Emission Data

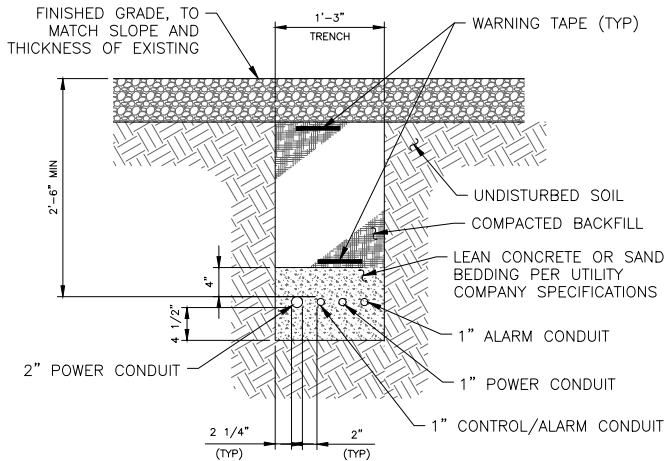
Rated Load Sound Output at 23ft - dB(A)	65
---	----

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

Generac Power Systems, Inc. 1, P.O. Box 81, Waukegan, WI 53190
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Part No: 1000032700
Rev: 3/09/2019



NOTES:

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- SCH 40 PVC CONDUIT SHALL BE USED BELOW GRADE.
- SCH 80 PVC CONDUIT SHALL BE USED UNDER ROADWAY.

GENERATOR TRENCH DETAIL

SCALE: 1/2" = 1'-0" (11x17 SIZE)
1" = 1'-0" (22x34 SIZE)

PLANNING BOARD APPROVAL

SIGNATURE

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CONFIGURATION

4Sec-67E998E 6160

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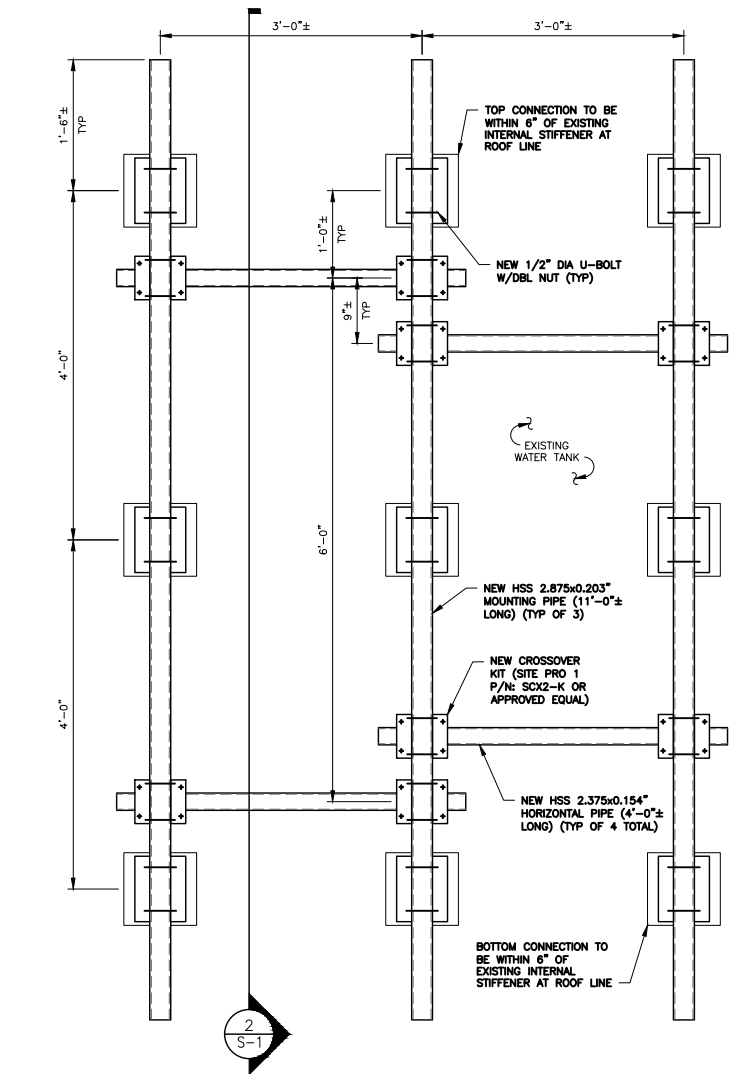
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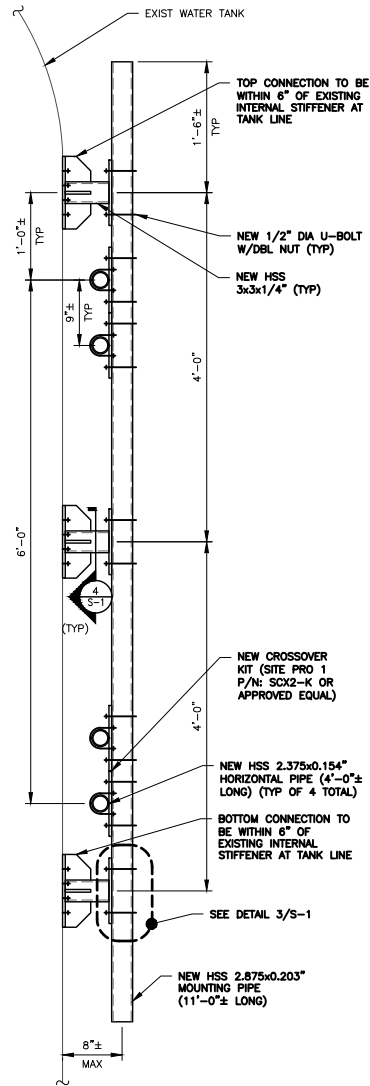
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A-8
GENERATOR SPECIFICATIONS
SCALE: NTS

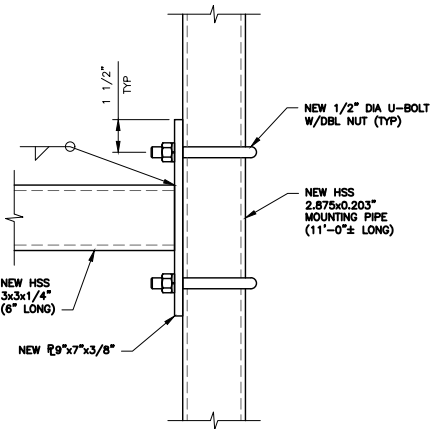
MOUNT NOTE:
REFER TO THE MOUNT ANALYSIS REPORT BY
TECTONIC ENGINEERING CONSULTANTS, GEOLOGIST
& LAND SURVEYORS D.P.C. DATED APRIL 1, 2022.
WATER TANK NOTE:
REFER TO THE TANK COMPARATIVE ANALYSIS REPORT
BY TECTONIC ENGINEERING CONSULTANTS, GEOLOGIST
& LAND SURVEYORS D.P.C. DATED APRIL 1, 2022.



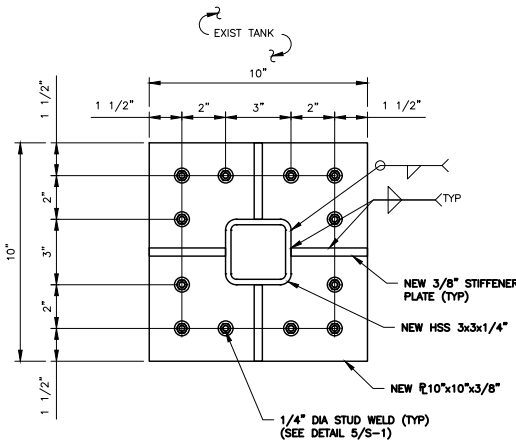
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SCALE: 1" = 1'-0"



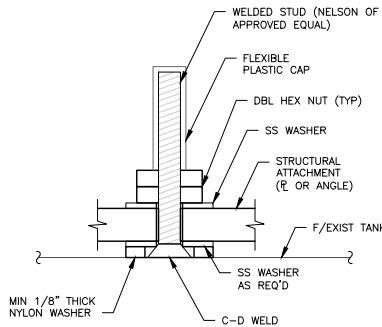
2 ANTENNA MOUNT SECTION
SCALE: 1" = 1'-0"



3 CONNECTION DETAIL
SCALE: 3" = 1'-0"



4 CONNECTION DETAIL
SCALE: 3" = 1'-0"



5 STUD WELD DETAIL
SCALE: 3" = 1'-0"

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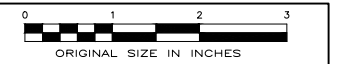
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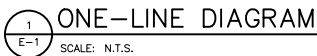
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ORANGE COUNTY

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ANTENNA MOUNT SPEC

SHEET NUMBER

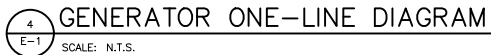
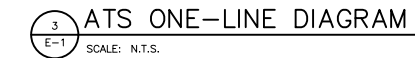
S-1



NOTE: FOR ILLUSTRATION PURPOSE ONLY. FINAL PANEL LAYOUT TO BE DETERMINED ON SITE BY ELECTRICIAN

- *C REPRESENTS CONDUIT
- *PROVIDE HACR TYPE CIRCUIT BREAKER
- 120/240V, 1 PHASE, 3 WIRE
- BASED ON VERTIV AC CABINET
- MAINS: 200A MAIN BREAKER
- BRANCHES: CIRCUIT BREAKERS SIZED AS SHOWN
- BRACING: 65,000 AIC
- ENCLOSURES: NEMA 3R, 20" WIDE CABINET
- POLES: 30 TOTAL

2 AC BREAKER PANEL SCHEDULE
E-1 SCALE: NTS



5 PPC CABINET SPECIFICATION
E-1 SCALE: N.T.S.

7 FIBER CABINET SPECIFICATION
E-1 SCALE: N.T.S.

6
E-1

ATS CABINET SPECIFICATION

SCALE: N.T.S.

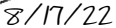
FIBER CABINET SPECIFICATION

SIGNATURE

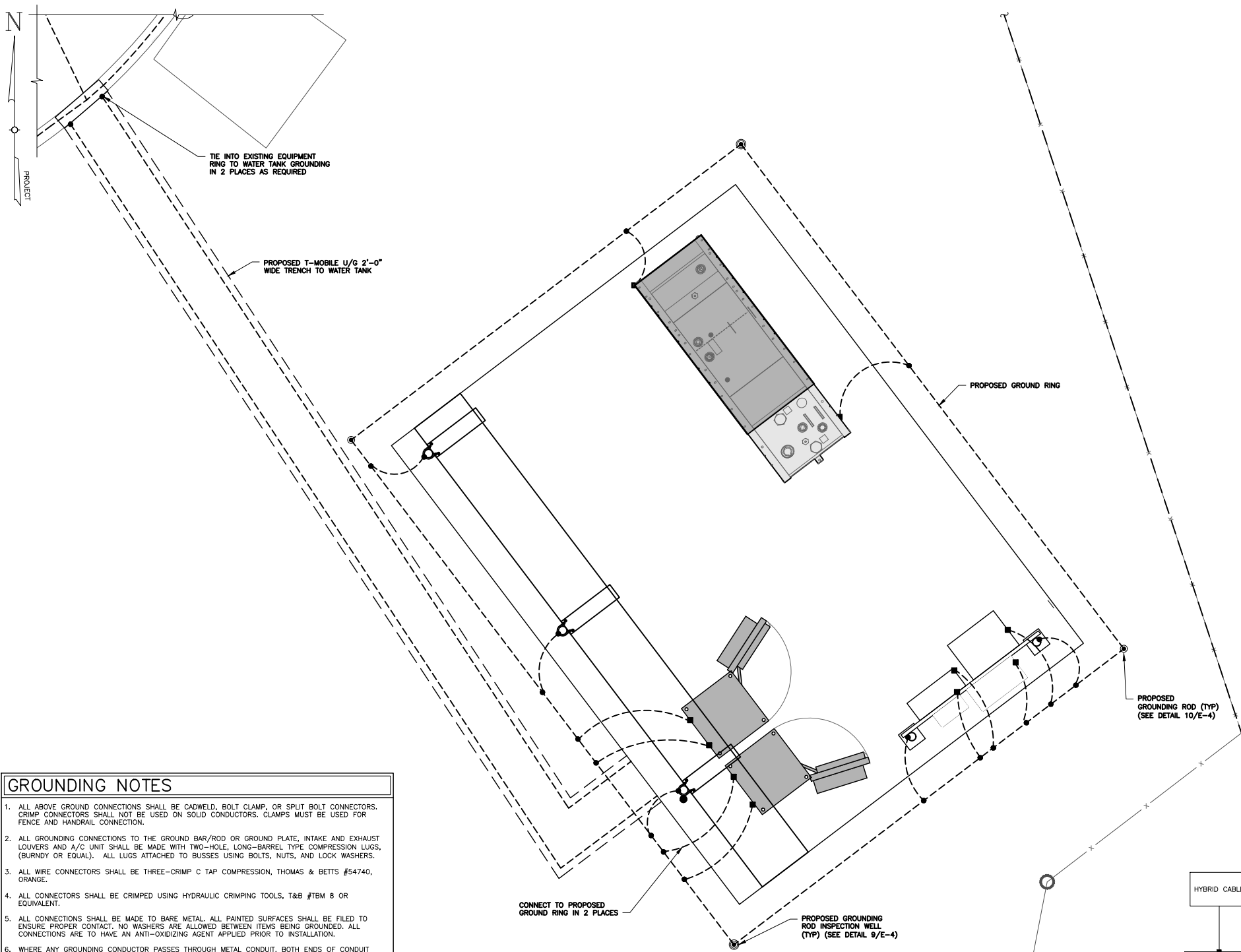
DATE

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REFER TO LATEST T-MOBILE RF DATA SHEET FOR FINAL RF DESIGN & BOM



100

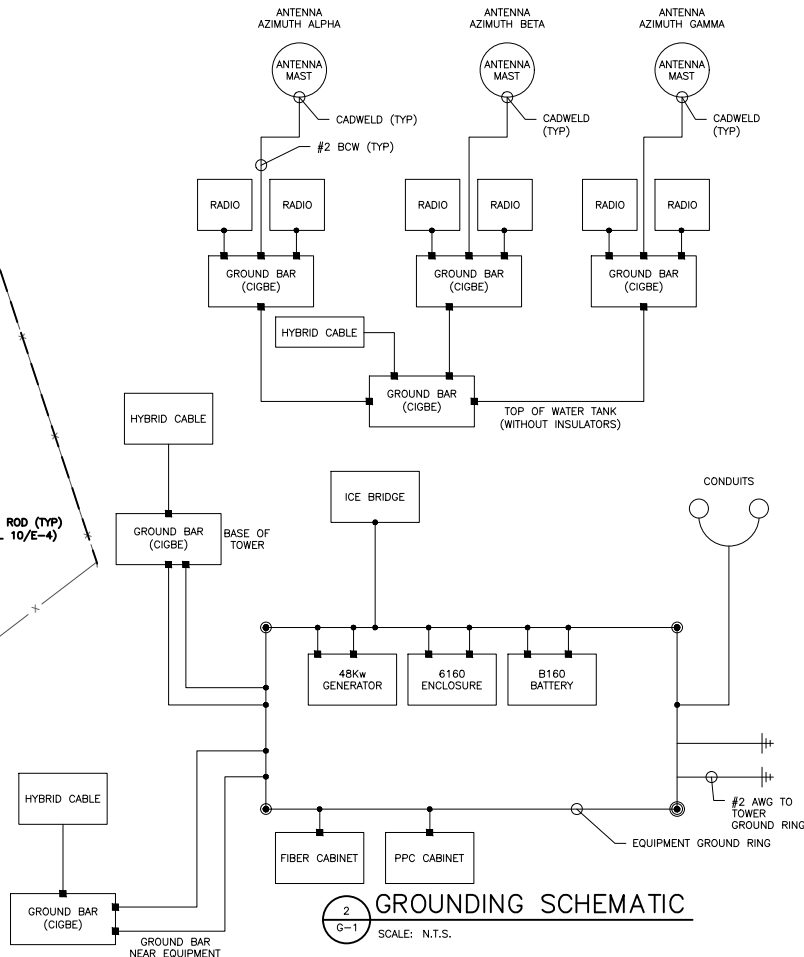


GROUNDING NOTES

1. ALL ABOVE GROUND CONNECTIONS SHALL BE CADWELD, BOLT CLAMP, OR SPLIT BOLT CONNECTORS. CRIMP CONNECTORS SHALL NOT BE USED ON SOLID CONDUCTORS. CLAMPS MUST BE USED FOR FENCE AND HANDRAIL CONNECTION.
2. ALL GROUNDING CONNECTIONS TO THE GROUND BAR/ROD OR GROUND PLATE, INTAKE AND EXHAUST LOUVERS AND A/C UNIT SHALL BE MADE WITH TWO-HOLE, LONG-BARREL TYPE COMPRESSION LUGS, (BURNDY OR EQUAL). ALL LUGS ATTACHED TO BUSSES USING BOLTS, NUTS, AND LOCK WASHERS.
3. ALL WIRE CONNECTORS SHALL BE THREE-CRIMP C TAP COMPRESSION, THOMAS & BETTS #54740, ORANGE.
4. ALL CONNECTORS SHALL BE CRIMPED USING HYDRAULIC CRIMPING TOOLS, T&B #TBM 8 OR EQUIVALENT.
5. ALL CONNECTIONS SHALL BE MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE FILED TO ENSURE PROPER CONTACT. NO WASHERS ARE ALLOWED BETWEEN ITEMS BEING GROUNDING. ALL CONNECTIONS ARE TO HAVE AN ANTI-OXIDIZING AGENT APPLIED PRIOR TO INSTALLATION.
6. WHERE ANY GROUNDING CONDUCTOR PASSES THROUGH METAL CONDUIT, BOTH ENDS OF CONDUIT SHALL BE GROUNDING.
7. ALL BENDS SHALL BE AS SHALLOW AS POSSIBLE, WITH NO TURNS SHORTER THAN AN 8-INCH NOMINAL RADIUS.
8. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY CROWN AND VERIZON FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE.
9. GROUND CONNECTORS TO ANTENNA MAST SHALL BE MADE WITH HEAVY DUTY GROUND CLAMPS SIMILAR TO THOMAS & BETTS OR APPROVED EQUAL.
10. ANTENNA CABLE INSTALLER TO PROVIDE GROUND BAR AT TOP & BOTTOM OF TOWER FOR ANTENNA CABLE GROUNDING. DOWNWARD LEADS FROM GROUNDING KITS MUST BE USED. GROUND KIT SHALL BE SIMILAR TO DETAIL 8/E-4.
11. CABLE TRAYS ARE TO BE GROUNDING TO THE GROUND ROD WITH #6 SOLID WIRE. CONNECTIONS ARE DOUBLE LUG-BOLTED, SCREWED MECHANICAL CONNECTIONS WITH STAR WASHERS AND NO-OX GREASE.
12. GROUNDING CLAMPS SHALL BE BURNDY GAR-TC OR EQUAL. PREPARE SURFACE PER BURNDY SPECIFICATIONS.
13. AVOID DISRUPTION OF EXISTING GROUNDING SYSTEM, REPAIR ANY DAMAGE TO THE SATISFACTION OF TOWER OWNER.
14. CONTRACTOR SHALL INSTALL ALL GROUNDING IN ACCORDANCE WITH T-MOBILE'S SITE GROUNDING SPECIFICATIONS, LATEST EDITION.
15. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDING AS REQUIRED BY ALL APPLICABLE CODES.
16. GPS ANTENNA MOUNTS GROUNDING TO GROUND BAR WITH ONE #6 WIRE EACH. GPS CABLE SHALL HAVE ONE GROUND KIT INSTALLED AT THE EQUIPMENT FRAME AND ATTACH CONDUCTORS TO THE GROUND BAR.
17. ALL ANTENNA MOUNTS SHALL BE GROUNDING WITH A #2 GROUND WIRE CONNECTED TOGETHER AND SUBSEQUENTLY CONNECTED TO THE GROUND BAR AT THE EQUIPMENT FRAME. ALL CONNECTIONS ARE TO BE CAD-WELDED IF POSSIBLE.
18. PLUG ALL LB'S WITH ELECTRICAL CEMENT. PACK EPOXY AROUND ALL BOLTED LUGS. INSTALL ANTI-CORROSIVE GREASE ON ALL GROUNDING ATTACHMENTS.
19. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL OF POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO CROWN AND VERIZON.

1
G-1
GROUNDING PLAN
SCALE: 1/2" = 1'-0"

LEGEND	
	GROUND CONDUCTOR
	CADWELD
	GROUND ROD
	GROUND ROD INSPECTION WELL
	GROUND LUG



2
G-1
GROUNDING SCHEMATIC
SCALE: N.T.S.

PLANNING BOARD APPROVAL

SIGNATURE _____ DATE _____

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PRACTICAL SOLUTIONS. EXCEPTIONAL SERVICE.
Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.
Project Contact Info
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Newburgh, NY 12550 (800) 829-6531
www.tectonicengineering.com

T-Mobile

4 SYLVAN WAY
PARSIPPANY, NJ 07054

AMP
COMMUNICATIONS, LLC

ACQUIRE • DESIGN • BUILD • MAINTAIN

PROJECT NUMBER			DESIGNED BY
11072.NY10152A			JMQ
REV.	DATE	DESCRIPTION	DRAWN BY
0	04/29/22	FOR COMMENT	BWY
1	06/06/22	FOR CONSTRUCTION	JMQ
2	08/11/22	FOR FILING	JMQ



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ORIGINAL SIZE IN INCHES

SITE INFORMATION

T-MOBILE SITE I.D: NY10152A

SITE ADDRESS

50 EVAN ROAD
WARWICK, NY 10990
ORANGE COUNTY

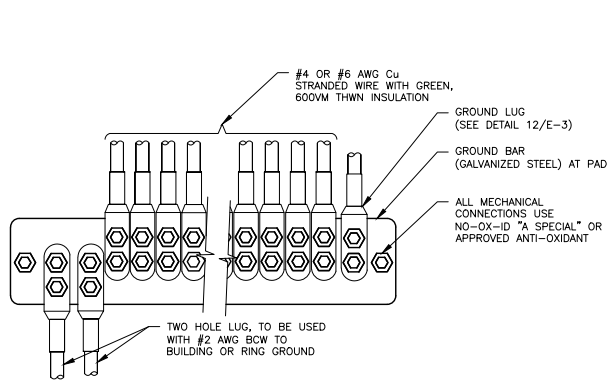
SHEET TITLE

GROUNDING PLAN, GROUNDING SCHEMATIC & NOTES

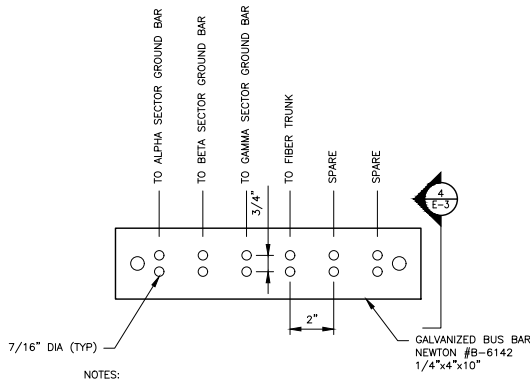
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G-1

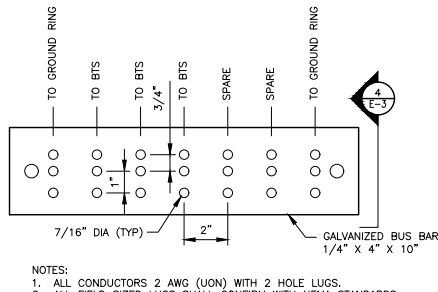
NOTE: ALL GROUND WIRES TO BE GALVANIZED STEEL. ERICO ERITECH THEFT DETERRENT CABLES TO BE USED.



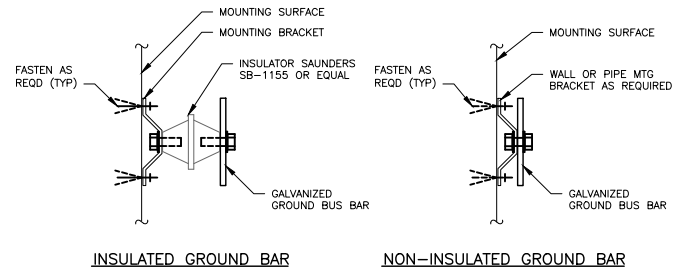
1 GROUNDING DETAIL
G-2 SCALE: N.T.S.



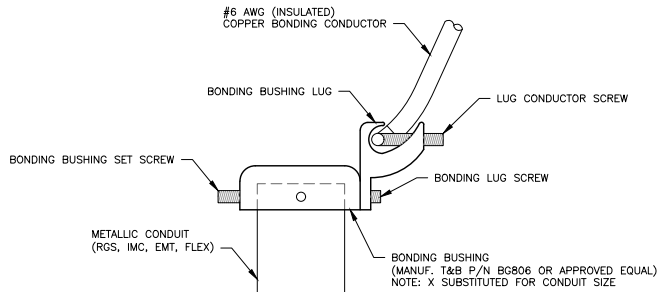
2 SECTOR GROUND BAR DETAIL
G-2 SCALE: 3\"/>



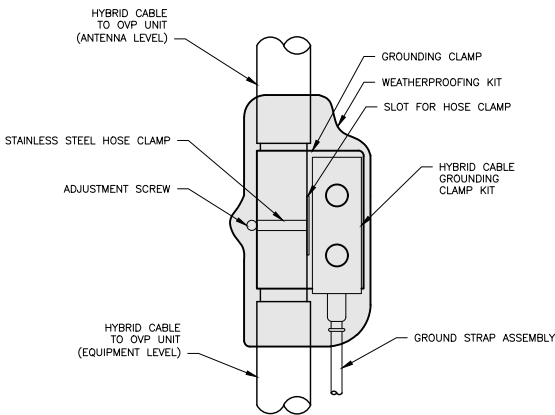
3 FIBER/COAX GROUND BAR
G-2 SCALE: 3\"/>



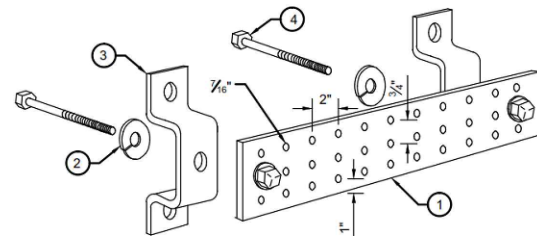
4 SECTION
G-2 SCALE: 3\"/>



5 CONDUIT BOND/GROUND BUSHING DETAIL
G-2 SCALE: N.T.S.

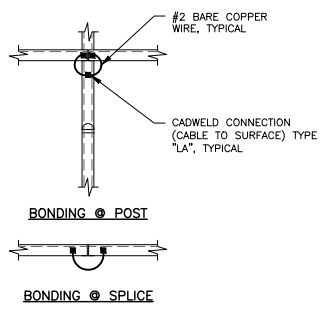


8 CABLE GROUNDING DETAIL
G-2 SCALE: N.T.S.

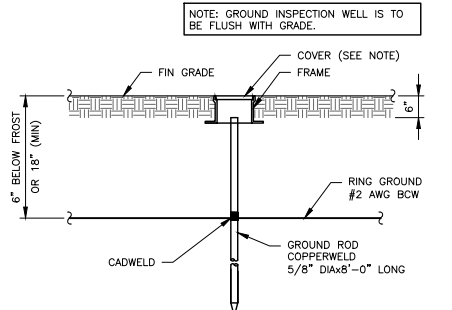


- LEGEND:
1. GALVANIZED STEEL GROUND BAR, 1/4"x4"x10" (MIN.), NEWTON INSTRUMENT CO., CAT NO. 215505. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION
 2. 5/8" STAINLESS STEEL LOCKWASHERS
 3. STAINLESS STEEL MOUNTING BRACKET.
 4. STAINLESS STEEL BOLTS.

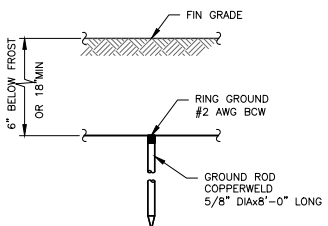
7 GROUND BAR DETAIL
G-2 SCALE: N.T.S.



8 COAX BRIDGE BONDING DETAIL
G-2 SCALE: N.T.S.

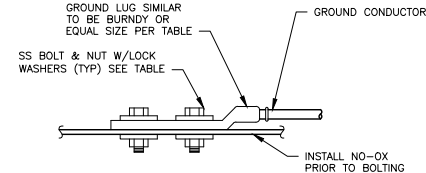


9 GROUND ROD INSPECTION
G-2 SCALE: 1/2\"/>



10 GROUND ROD DETAIL
G-2 SCALE: 1/2\"/>

TABLE		
WIRE SIZE	LUG #	BOLT DIA
#2	YA2CL-2TC14	1/4"
#2/0	YA25-2LN	1/2"



11 LUG GROUND CONNECTION
G-2 SCALE: N.T.S.

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STATE OF NEW YORK
ANTONIO A. GUALTIERI
071249
LICENSED PROFESSIONAL ENGINEER
8/17/22

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ORANGE COUNTY

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GROUNDING DETAILS

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