

1. SITE INFORMATION OBTAINED FROM THE FOLLOWING:
A. LEASE EXHIBIT ENTITLED "MAINE YORK ST" PREPARED BY SKYBORNE TECHNOLOGIES OF WESTFORD, MA LAST REVISED 06/06/2019.
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
9. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
10. THE PROPOSED FACILITY WILL CAUSE NO INCREASE IN STORM WATER RUNOFF, THEREFORE, NO DRAINAGE STRUCTURES ARE PROPOSED.
11. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
12. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).
13. THE FACILITY DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
14. CONTRACTOR SHALL VERIFY ANTENNA ELEVATION AND AZIMUTHS WITH RF ENGINEERING PRIOR TO INSTALLATION.
15. THE TOWER, MOUNTS AND ANTENNAS SHALL BE DESIGNED TO MEET EIA/TIA-222-G AS PER IBC REQUIREMENTS.
16. ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL.
17. CONTRACTOR MUST FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.
18. CONSTRUCTION SHALL NOT COMMENCE UNTIL COMPLETION OF A PASSING STRUCTURAL ANALYSIS CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. THE STRUCTURAL ANALYSIS IS TO BE PERFORMED BY OTHERS.
19. CONTRACTOR SHALL CONTACT STATE SPECIFIC ONE CALL SYSTEM THREE WORKING DAYS PRIOR TO ANY EARTH MOVING ACTIVITIES.

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

1. 2015 INTERNATIONAL BUILDING CODE
2. INTERNATIONAL MECHANICAL CODE
3. ANSI/TIA-222 STRUCTURAL STANDARD
4. NFPA 780 - LIGHTNING PROTECTION CODE
5. UNIFORM PLUMBING CODE
6. NATIONAL ELECTRICAL CODE



at&t

SITE NAME: YORK - ROOTS ROCK RD
FA NUMBER: 12676392
SITE NUMBER: S4097
ADDRESS: 5 ROOTS ROCK ROAD
YORK, ME 03909
PACE ID: MRCTB033377
PTN: 2057A0J5EG

SITE INFORMATION:

LATITUDE: 43.1476520° N
LONGITUDE: -70.6467190° W
JURISDICTION: YORK COUNTY

APPLICANT/LESSEE: _____

COMPANY: AT&T
ADDRESS: NEW ENGLAND MARKET

PROPERTY OWNER:

PROPERTY OWNER: YORK WATER DISTRICT
ADDRESS: 86 WOODBRIDGE RD.
CITY, STATE, ZIP: YORK, ME 03909

CLIENT REPRESENTATIVE:

COMPANY: SMARTLINK, LLC
ADDRESS: 85 RANGEWAY ROAD
BUILDING 3, SUITE 102
CITY, STATE, ZIP: NORTH BILLERICA, MA 01862
CONTACT: APRIL GRASSO
E-MAIL: APRIL.GRASSO@SMARTLINK.COM

SITE ACQUISITION:

COMPANY: SMARTLINK, LLC
ADDRESS: 85 RANGEWAY ROAD
BUILDING 3, SUITE 102
CITY, STATE, ZIP: NORTH BILLERICA, MA 01862
CONTACT: SHARON KEEFE
E-MAIL: SHARON.KEEFE@SMARTLINK.COM

CONSTRUCTION MANAGER:

COMPANY: SMARTLINK, LLC
ADDRESS: 85 RANGEWAY ROAD
BUILDING 3, SUITE 102
CITY, STATE, ZIP: NORTH BILLERICA, MA 01862
CONTACT: MARK DONNELLY
E-MAIL: MARK.DONNELLY@SMARTLINK.COM

ENGINEER:

COMPANY: RAMAKER & ASSOCIATES, INC.
ADDRESS: 855 COMMUNITY DRIVE
CITY, STATE, ZIP: SAUK CITY, WI 53583
CONTACT: KEITH BOHNSACK
E-MAIL: KBOHNSACK@RAMAKER.COM




PROJECT DESCRIPTION/SCOPE OF WORK

- INSTALL (6) ANTENNAS, (2) PER SECTOR
- INSTALL (9) NEW RRUs, (3) PER SECTOR
- INSTALL NEW MAGNETIC MOUNTS FOR NEW ANTENNAS, RRUs, & RELOCATED OMNI ANTENNAS
- INSTALL (1) NEW MAGNETIC CABLE TRAY
- INSTALL (1) NEW AT&T W.I.C. WITH GENERATOR ROOM & (1) NEW AC & DIESEL INDOOR GENERATOR
- INSTALL (3) NEW DC-6 SURGE SUPPRESSION DOME
- INSTALL (3) NEW FIBER TRUNKS
- INSTALL (6) NEW DC TRUNKS
- 100' MANLIFT REQUIRED TO PERFORM WORK

PROPOSED PROJECT SCOPE BASED ON RFDS
ID# 2695497, VERSION 4.00, LAST UPDATED 05/03/2019.
CONTRACTOR TO VERIFY IN FIELD.

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 at&t		
 smartlink		
85 RANGEWAY ROAD - BLDG 3, SUITE 102 NORTH BILLERICA, MA 01862 SMARTLINKLLC.COM		
 RAMAKER & ASSOCIATES, INC. 100% EMPLOYEE-OWNED		
855 Community Dr, Sauk City, WI 53583 608-643-4100 www.Ramaker.com		
Sauk City, WI • Willmar, MN Woodcliff Lake, NJ • Bayamon, PR		
Certification & Seal:		
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MARK	DATE	DESCRIPTION
ISSUE PHASE	PRELIMINARY	DATE ISSUED 11/06/2019
PROJECT TITLE: <div style="text-align: center; font-size: 24pt; font-weight: bold;"> YORK - ROOTS ROCK RD FA# 12676392 SITE# S4097 </div>		
PROJECT INFORMATION: 5 ROOTS ROCK ROAD YORK, ME 03909 YORK COUNTY		
SHEET TITLE: <div style="text-align: center; font-size: 24pt; font-weight: bold; margin-top: 10px;">TITLE SHEET</div>		
SCALE: NONE		
PROJECT NUMBER	45551	
SHEET NUMBER	T-1	

GENERAL NOTES:

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND FOR GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 50 HMS OR LESS.
4. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.
5. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
6. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
7. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE EQUIPMENT GROUND RING WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
8. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
9. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING, SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
10. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
11. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED. ALL BENDS SHALL BE MADE WITH 12" RADIUS OR LARGER.
12. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
13. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS EXCEPT FOR GROUND BAR CONNECTION FROM MGB TO OUTSIDE EXTERIOR GROUND SHALL ALL BE CADWELD CONNECTIONS.
14. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
15. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED TO THE TOWER GROUND BAR.
16. APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
17. ALL EXTERIOR AND INTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
18. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
19. BOND ALL METALLIC OBJECTS WITHIN 6 FT OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
20. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G. NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
21. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/4" IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50.
22. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR - SMARTLINK
SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
OWNER - AT&T (NEW CINGULAR WIRELESS PCS, LLC)
23. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
24. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
25. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
26. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
27. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
28. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
29. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE

SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.

30. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
31. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
32. 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 RESPONSIBLE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.
33. 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, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
34. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION.
35. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
36. 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.
37. THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
38. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
39. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
40. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
41. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
42. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR.
43. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
44. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
45. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS.
46. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (FY = 36 KSI) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (FY = 36 KSI). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
47. CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T MOBILITY SITES."
48. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
49. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION, ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
50. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN ALERT OF DANGEROUS EXPOSURE LEVELS.
51. CONTRACTOR SHALL SUPPLY A PORTABLE TOILET ON SITE PRIOR TO START OF CONSTRUCTION.



85 RANGEWAY ROAD - BLDG 3, SUITE 102
NORTH BILLERICA, MA 01862
SMARTLINKLLC.COM



855 Community Dr, Sauk City, WI 53583
608-643-4100 www.Ramaker.com

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Certification & Seal:

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PROJECT TITLE:
YORK - ROOTS ROCK RD
FA# 12676392
SITE# S4097

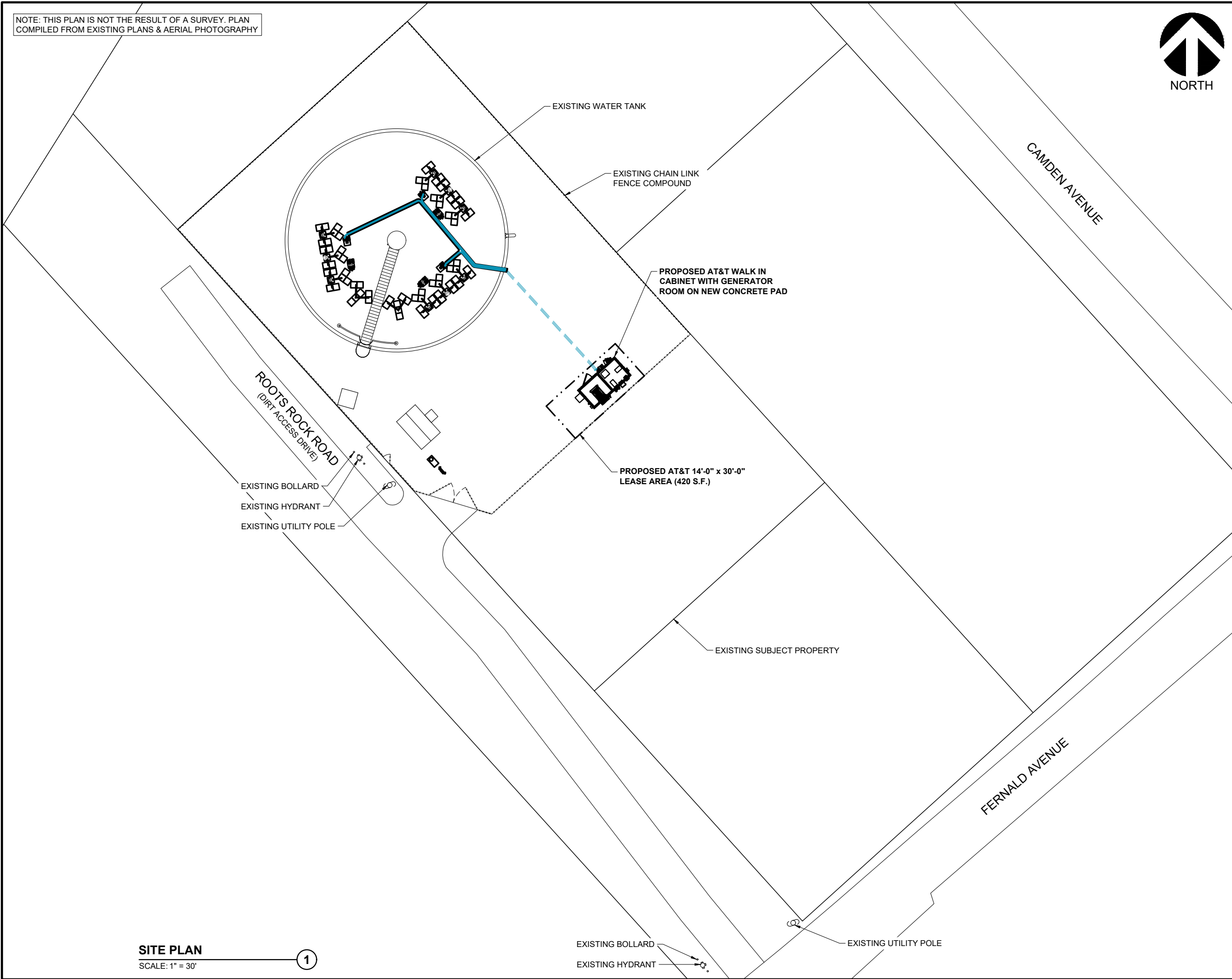
PROJECT INFORMATION:
5 ROOTS ROCK ROAD
YORK, ME 03909
YORK COUNTY

SHEET TITLE:

NOTES

SCALE: NONE

PROJECT NUMBER	45551
SHEET NUMBER	GN-1



SITE PLAN
SCALE: 1" = 30'

1



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5 ROOTS ROCK ROAD		
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YORK COUNTY		
SHEET TITLE:		
SITE PLAN		
0 15' 30' 60'		
11" x 17" - 1" = 30'		
22" x 34" - 1" = 15'		
PROJECT NUMBER	45551	
SHEET NUMBER	C-1	

NOTE: CONTRACTOR TO COORDINATE WITH LANDLORD PAINT CONTRACTOR TO INSPECT, PRIME, AND PAINT ANY CHIPS AND/OR WELDS AFTER AT&T CONSTRUCTION IS COMPLETED.
PAINT CONTRACTOR: MARCEL PAYEUR
113 OTIS ALLEN ROAD SANFORD, ME 04073



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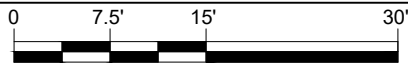
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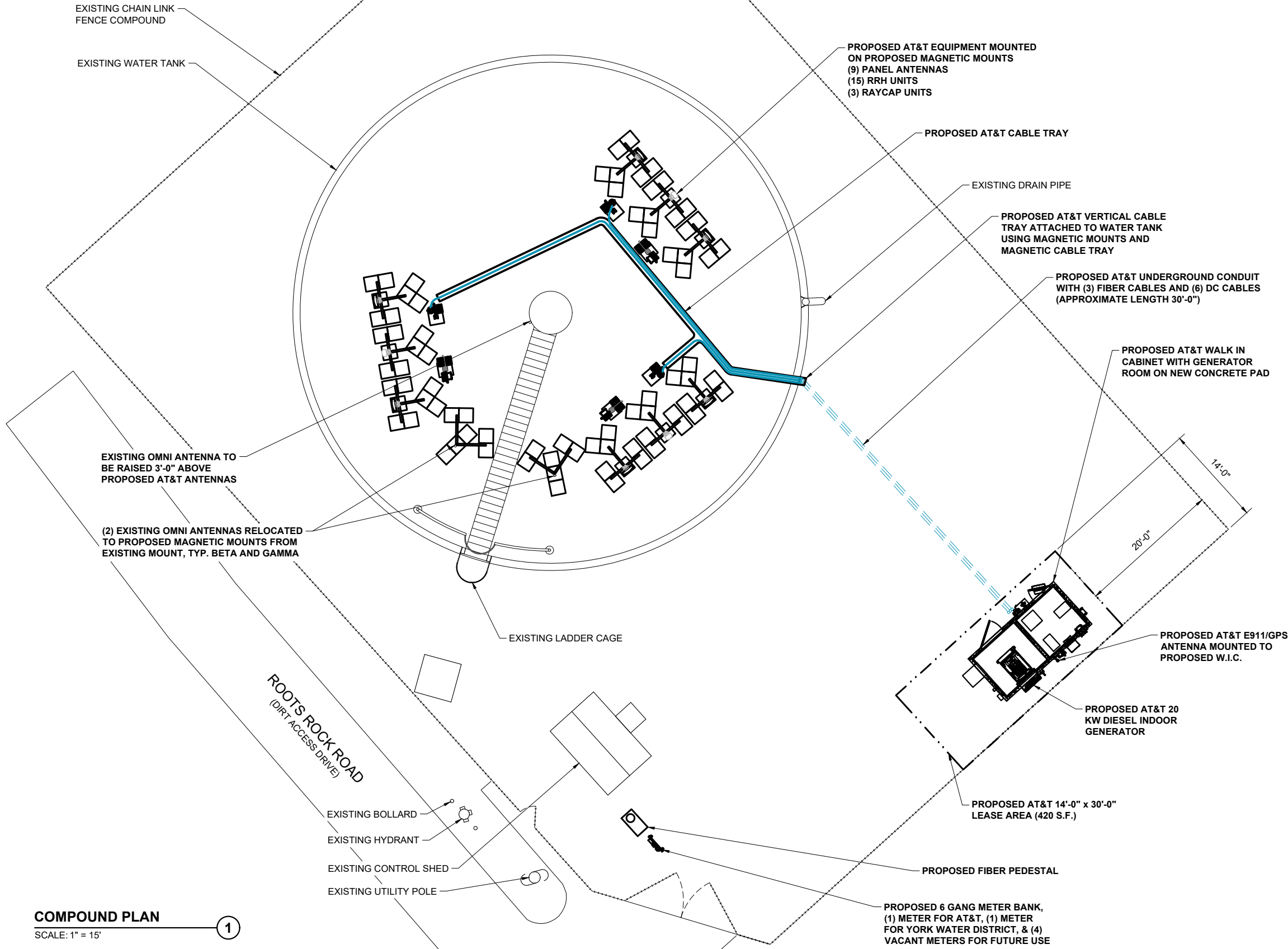
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PROJECT INFORMATION:
5 ROOTS ROCK ROAD
YORK, ME 03909
YORK COUNTY

SHEET TITLE:
COMPOUND PLAN



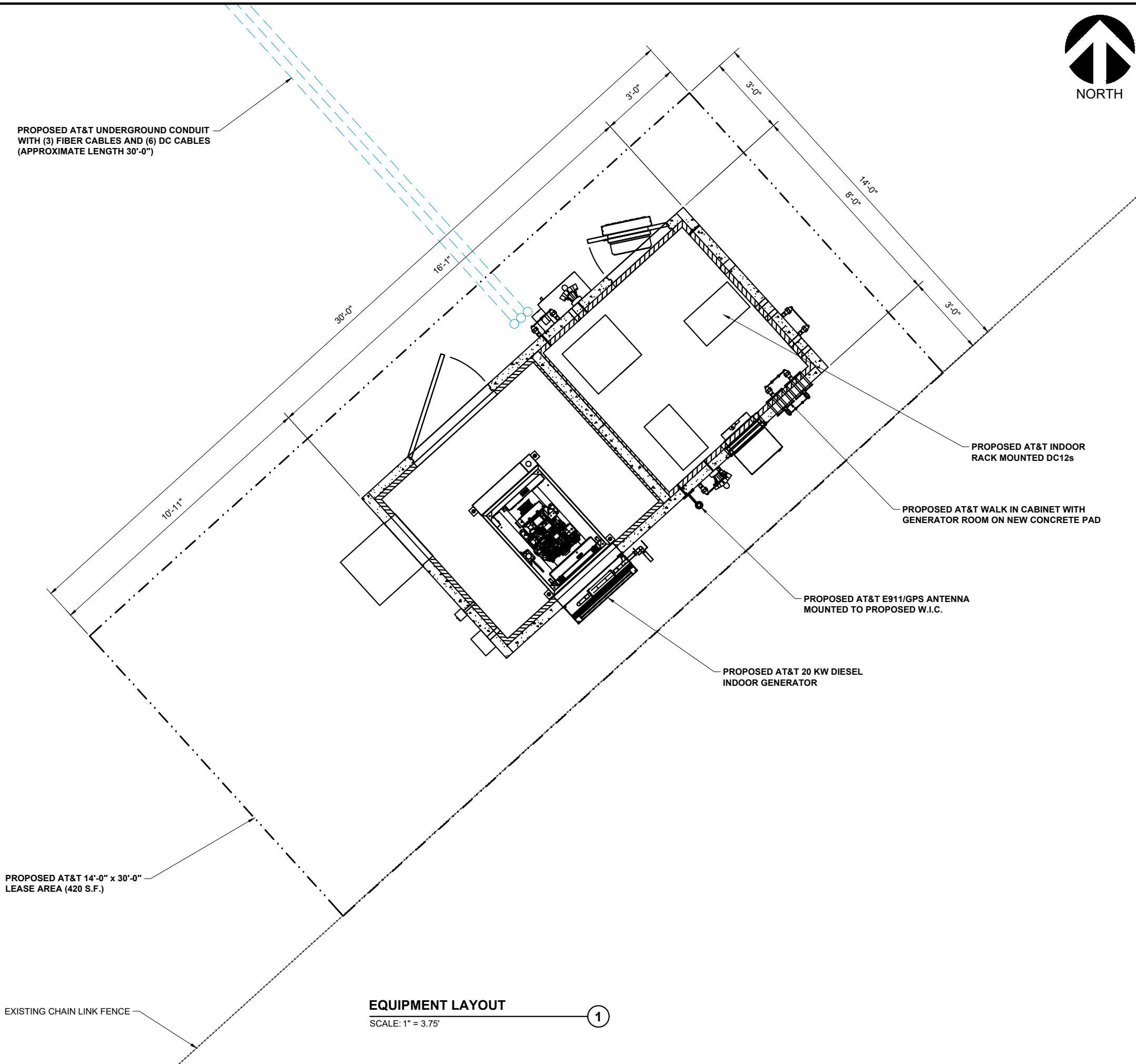
PROJECT NUMBER	45551
SHEET NUMBER	C-2



COMPOUND PLAN

SCALE: 1" = 15'

1



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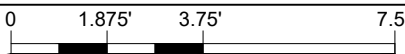
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YORK COUNTY

SHEET TITLE:

EQUIPMENT LAYOUT



11" x 17" - 1" = 3.75'
22" x 34" - 1" = 1.875'

PROJECT NUMBER	45551
SHEET NUMBER	C-3



CAUTION SIGN DETAIL

SCALE: NTS

2

PROPOSED AT&T RF EMISSIONS "CAUTION" SIGN INSTALLED AT THE BEGINNING OF EXISTING WATER TANK LADDER PER SAFESITE REPORT, SEE 2/C-4 FOR DETAILS

GRADE @ 0'-0" AGL

TOP OF EXISTING OMNI ANTENNAS @ ±102'-0" AGL

TOP OF PROPOSED AT&T ANTENNAS @ 79'-0" AGL

PROPOSED AT&T ANTENNAS C/L @ 75'-0" AGL

TOP OF EXISTING WATER TANK (RIM) @ 65'-0" AGL

EXISTING ±20' OMNI ANTENNA RELOCATED TO PROPOSED MAGNETIC MOUNT 3'-0" ABOVE PROPOSED AT&T ANTENNA. EXISTING OMNI HEIGHT AND TIP HEIGHT ARE UNKNOWN, CONTRACTOR TO VIF. EXISTING OMNI ANTENNA CABLES TO BE REMOVED AND REPLACED WITH NEW CABLES (TYP. BETA AND GAMMA)

EXISTING ±20' OMNI ANTENNA RAISED TO 3'-0" ABOVE PROPOSED AT&T ANTENNA. EXISTING OMNI HEIGHT AND TIP HEIGHT ARE UNKNOWN, CONTRACTOR TO VIF. EXISTING OMNI ANTENNA CABLE TO BE REMOVED AND REPLACED WITH NEW CABLE (AT TOP OF TANK)

NOTE: CONTRACTOR TO REVERENCE SITESAFE REPORT DATED NOVEMBER 21, 2019 FOR REQUIRED SIGNAGE INSTALLATION.

PROPOSED AT&T EQUIPMENT MOUNTED ON MAGNETIC MOUNTS
(6) PROPOSED PANEL ANTENNAS
(9) PROPOSED RRH UNITS
(3) PROPOSED RAYCAP UNITS
(3) FUTURE PANEL ANTENNAS
(6) FUTURE RRH UNITS
PROPOSED 3M RF TRANSPARENT MIRROR FILM APPLIED TO PROPOSED AT&T ANTENNAS & MOUNT PIPES

EXISTING 65' TALL WATER TANK

EXISTING DRAIN PIPE

PROPOSED AT&T VERICAL CABLE TRAY WITH (3) FIBER CABLES AND (6) DC CABLES (PAINT TO MATCH)

PROPOSED AT&T E911/GPS ANTENNA MOUNTED TO PROPOSED W.I.C.

PROPOSED AT&T WALK IN CABINET WITH GENERATOR ROOM ON NEW CONCRETE PAD

EXISTING LADDER CAGE

PROPOSED AT&T U/G POWER AND FIBER RUN FROM NEW UTILITY DEMARC

ELEVATION VIEW

SCALE: 1" = 12.5'

1



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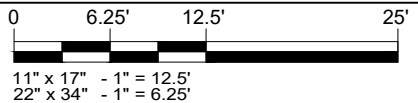
ISSUE PHASE	PRELIMINARY	DATE ISSUED	11/06/2019
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PROJECT TITLE:
YORK - ROOTS ROCK RD
FA# 12676392
SITE# S4097

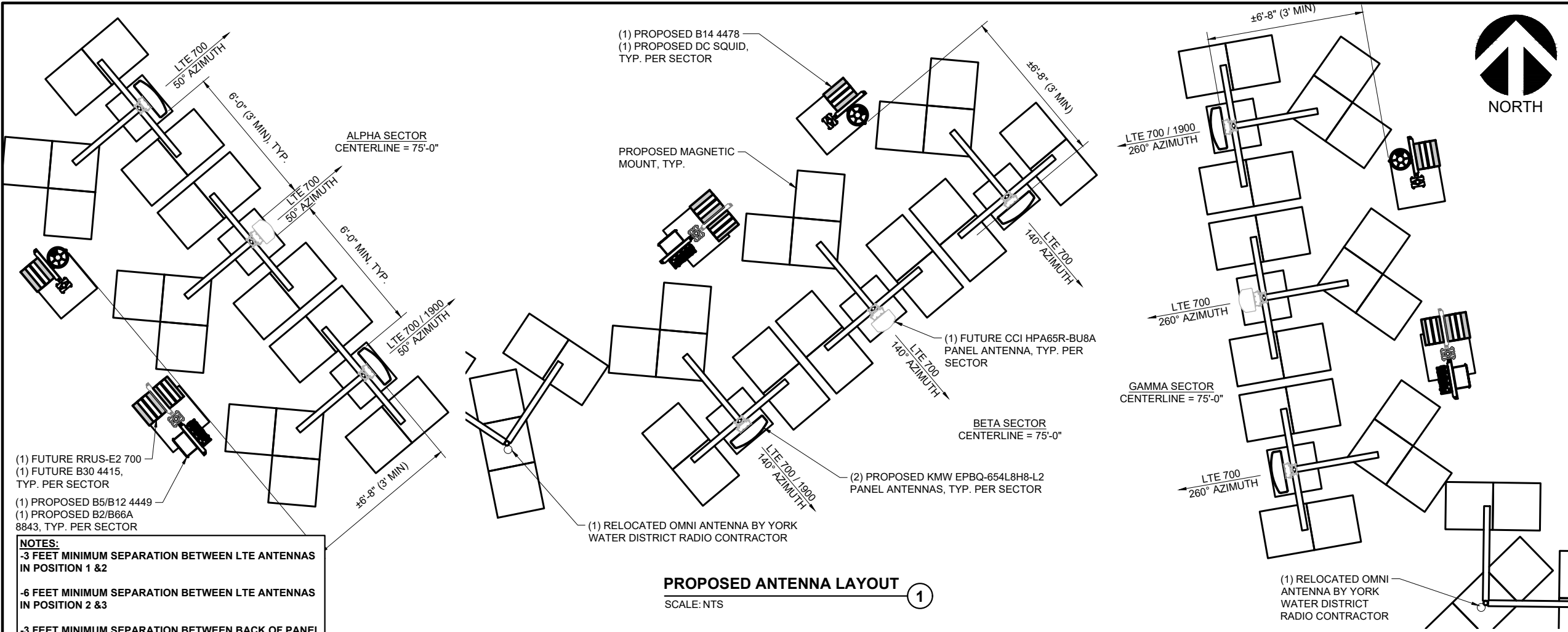
PROJECT INFORMATION:
5 ROOTS ROCK ROAD
YORK, ME 03909
YORK COUNTY

SHEET TITLE:

ELEVATION VIEW



PROJECT NUMBER	45551
SHEET NUMBER	C-4



PROPOSED ANTENNA LAYOUT
SCALE: NTS

BASED ON: RF ENGINEERING DESIGN ENTITLED "12676392_S4097_RFDS_11-27-2018_PRELIMINARY-IN-PROGRESS-V4.00" LAST REVISED 05/03/2019.

SECTOR		PROPOSED ANTENNA	TECHNOLOGY	ANTENNA STATUS	HEIGHT (IN.)	WIDTH (IN.)	DEPTH (IN.)	WEIGHT (LBS.)	ANTENNA AZIMUTH (DEG.)	ANT. C/L ELEV. (FT.)	REMOTE RADIO/TMA CONFIGURATION	TRANSMISSION CABLE		
												QUANTITY	TYPE	STATUS
SECTOR A	1	KMW EPBQ-654L8H8-L2	LTE	PROPOSED	96.0	21.0	6.3	86	50	75	B14 4478 -	1 2	FIBER TRUNK DC TRUNK	PROPOSED PROPOSED
	2	CCI HPA65R-BU8A	LTE	FUTURE	96.0	11.7	7.6	54	50	75	RRUS-E2 700 B30 4415			
	3	KMW EPBQ-654L8H8-L2	LTE	PROPOSED	96.0	21.0	6.3	86	50	75	B5/B12 4449 B2/B66A 8843			
SECTOR B	1	KMW EPBQ-654L8H8-L2	LTE	PROPOSED	96.0	21.0	6.3	86	140	75	B14 4478 -	1 2	FIBER TRUNK DC TRUNK	PROPOSED PROPOSED
	2	CCI HPA65R-BU8A	LTE	FUTURE	96.0	11.7	7.6	54	140	75	RRUS-E2 700 B30 4415			
	3	KMW EPBQ-654L8H8-L2	LTE	PROPOSED	96.0	21.0	6.3	86	140	75	B5/B12 4449 B2/B66A 8843			
SECTOR C	1	KMW EPBQ-654L8H8-L2	LTE	PROPOSED	96.0	21.0	6.3	86	260	75	B14 4478 -	1 2	FIBER TRUNK DC TRUNK	PROPOSED PROPOSED
	2	CCI HPA65R-BU8A	LTE	FUTURE	96.0	11.7	7.6	54	260	75	RRUS-E2 700 B30 4415			
	3	KMW EPBQ-654L8H8-L2	LTE	PROPOSED	96.0	21.0	6.3	86	260	75	B5/B12 4449 B2/B66A 8843			

ANTENNA SCHEDULE
SCALE: NTS

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100% EMPLOYEE-OWNED

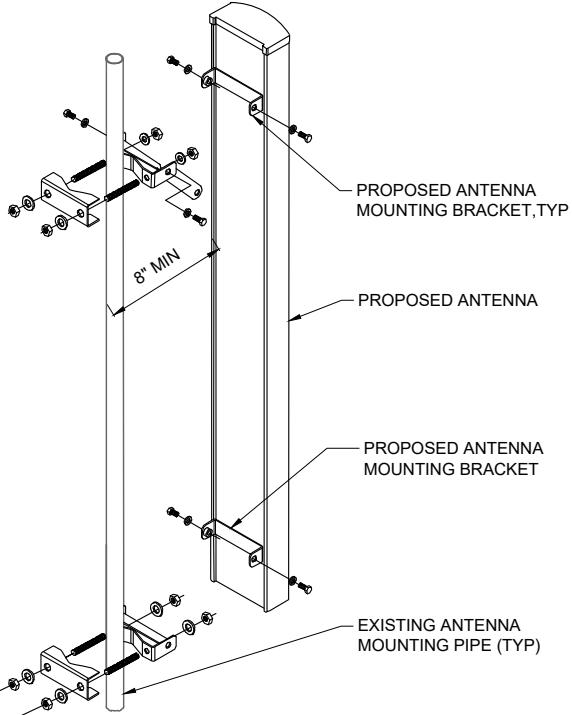
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ISSUE PHASE	PRELIMINARY	DATE ISSUED 11/06/2019
PROJECT TITLE: YORK - ROOTS ROCK RD FA# 12676392 SITE# S4097		
PROJECT INFORMATION: 5 ROOTS ROCK ROAD YORK, ME 03909 YORK COUNTY		
SHEET TITLE: ANTENNA LAYOUTS AND ANTENNA SCHEDULE		
SCALE: NONE		
PROJECT NUMBER	45551	
SHEET NUMBER	C-5	

NOTES:
-3 FEET MINIMUM SEPARATION BETWEEN LTE ANTENNAS
-3 FEET MINIMUM SEPARATION BETWEEN BACK OF
PANEL ANTENNA AND PROPOSED EQUIPMENT
-3M RF TRANSPARENT MIRRORED FILM APPLIED TO
PROPOSED AT&T ANTENNAS & MOUNT PIPES

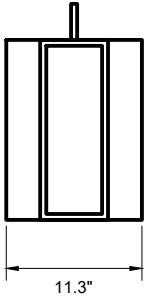
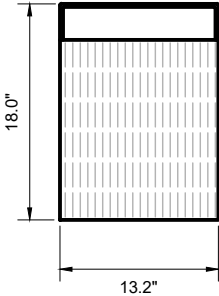


ANTENNA MOUNTING DETAIL
SCALE: NTS

1

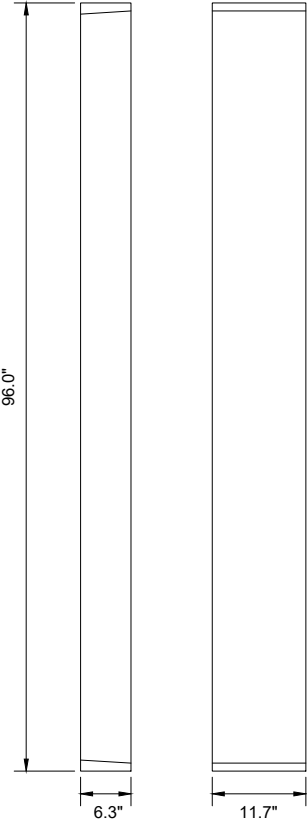


ERICSSON B2/B66A 8843
DIMENSIONS (HxWxD):
18.0"x13.2"x11.3"
WEIGHT (LBS): 70



RRUS B2/B66A 8843 DETAIL
SCALE: NTS

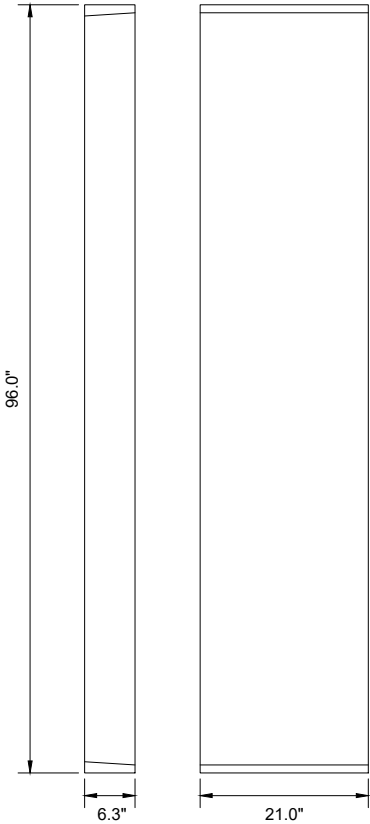
2



CCI HPA65R-BU8A
DIMENSIONS (HxWxD):
96.0"x11.7"x7.6"
WEIGHT (LBS): 54.0

ANTENNA DETAIL
SCALE: NTS

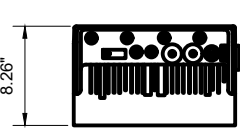
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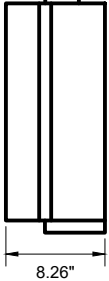
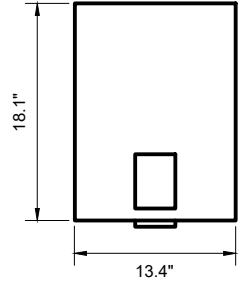
KMW EPBQ-654L8H8-L2
DIMENSIONS (HxWxD):
96.0"x21.0"x6.3"
WEIGHT (LBS): 86.0

ANTENNA DETAIL
SCALE: NTS

4

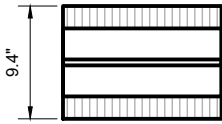


ERICSSON B14 4478
DIMENSIONS (HxWxD):
18.1"x13.4"x8.26"
WEIGHT (LBS): 59.4

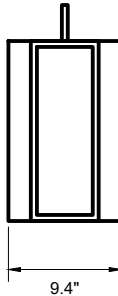
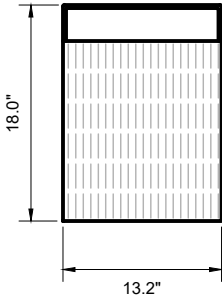


RRUS B14 4478 DETAIL
SCALE: NTS

5

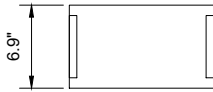


ERICSSON B5/B12 4449
DIMENSIONS (HxWxD):
18.0"x13.2"x9.4"
WEIGHT (LBS): 75

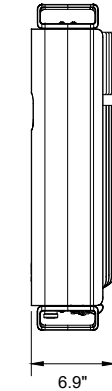
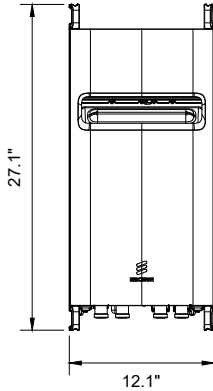


RRUS B5/B12 4449 DETAIL
SCALE: NTS

6



ERICSSON B30 4415
DIMENSIONS (HxWxD):
27.1"x12.1"x6.9"
WEIGHT (LBS): 53



RRUS B30 4415 DETAIL
SCALE: NTS

7

SPECIFICATION TO BE PROVIDED

RRUS-E2 B30 DETAIL
SCALE: NTS

8



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PHASE		
PROJECT TITLE:		
YORK - ROOTS ROCK RD		
FA# 12676392		
SITE# S4097		

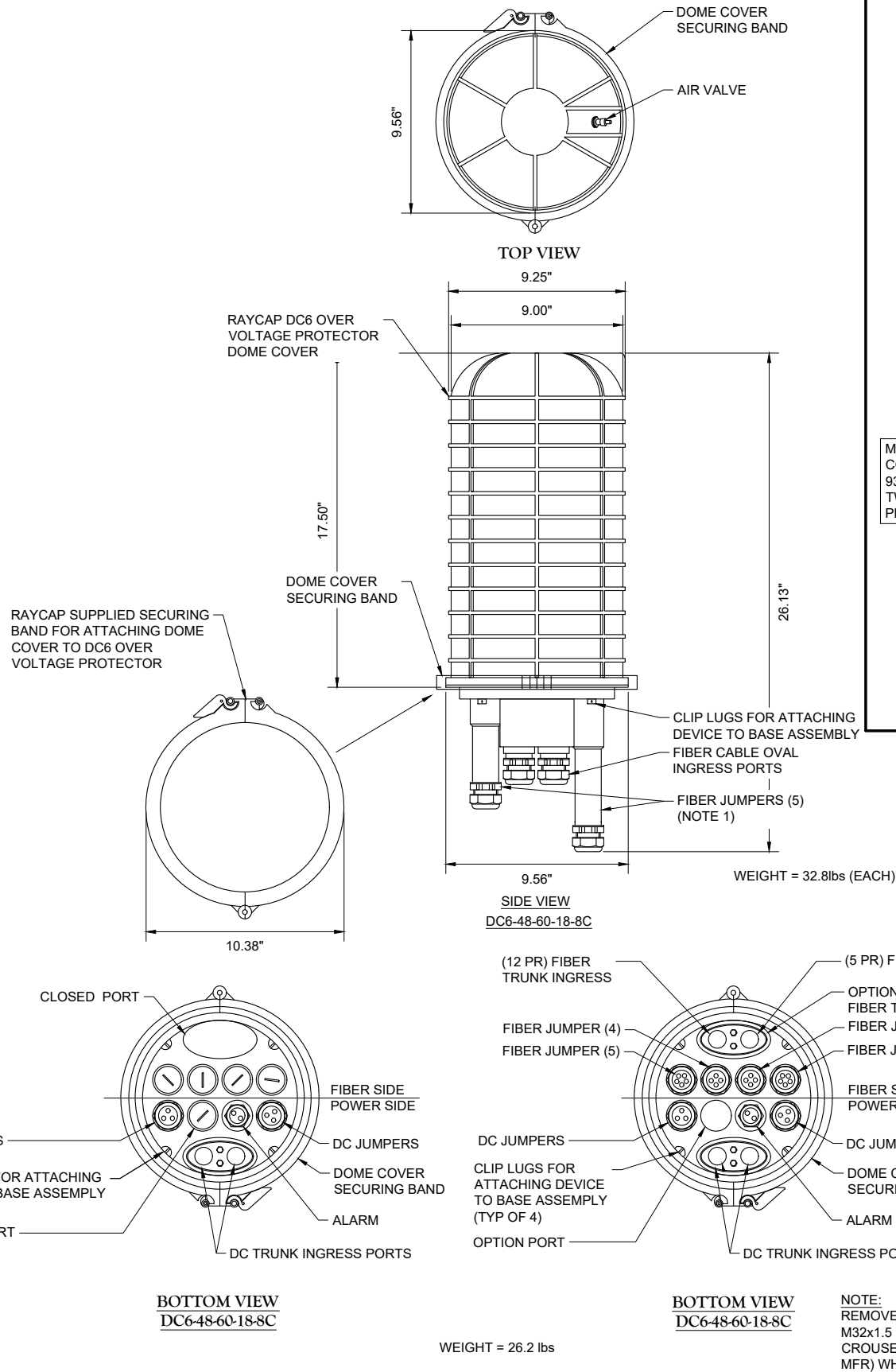
PROJECT INFORMATION:
5 ROOTS ROCK ROAD
YORK, ME 03909
YORK COUNTY

SHEET TITLE:

CONSTRUCTION DETAILS

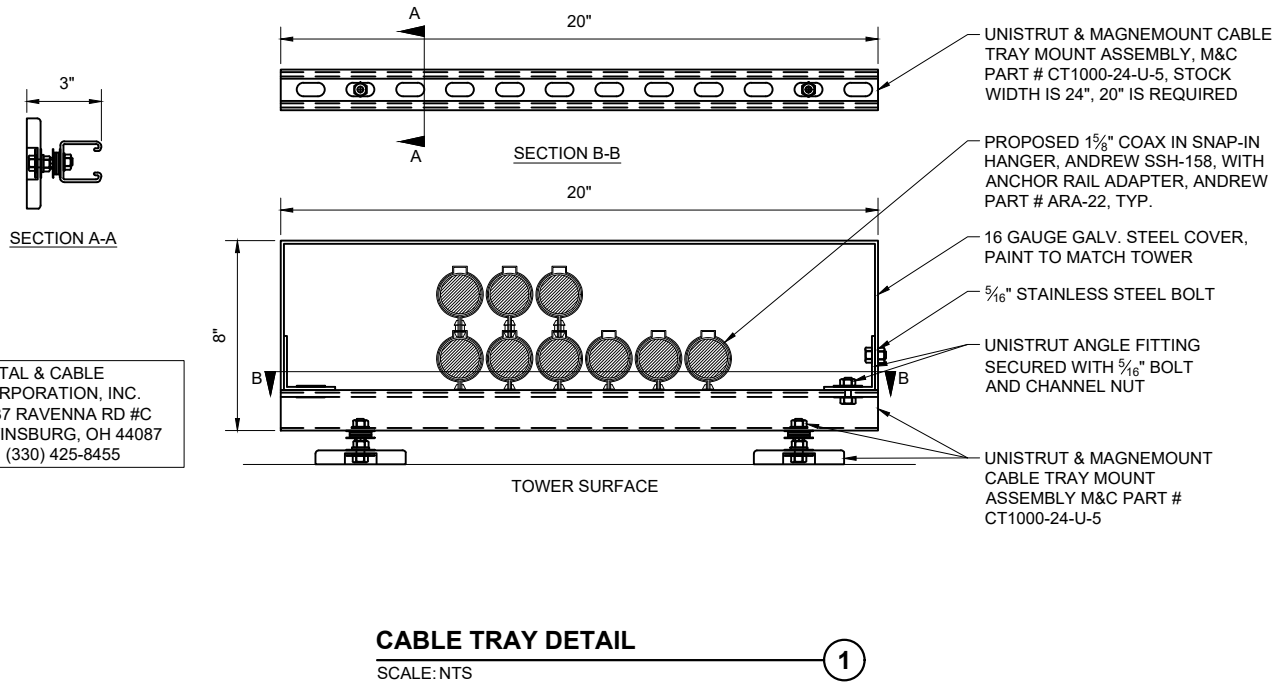
SCALE: NONE

PROJECT NUMBER 45551
SHEET NUMBER A-1



DC6 SURGE SUPPRESSION DOME
SCALE: NTS

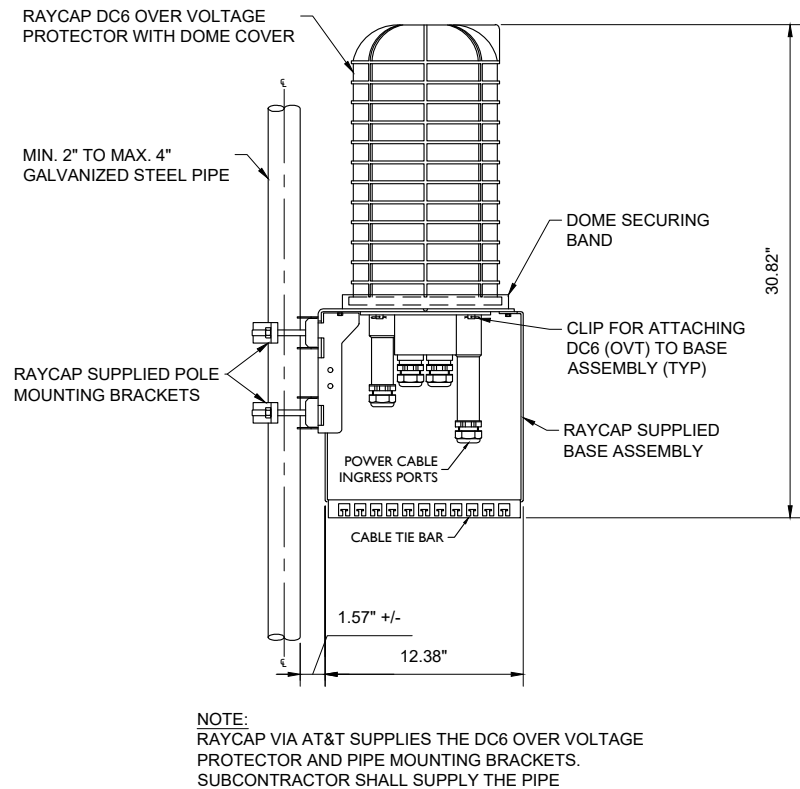
2



CABLE TRAY DETAIL

SCALE: NTS

1



DC6 SURGE SUPPRESSION DOME
POLE MOUNT ASSEMBLY
NOT TO SCALE

DC6 SURGE SUPPRESSION DOME
POLE MOUNT ASSEMBLY

SCALE: NTS

3



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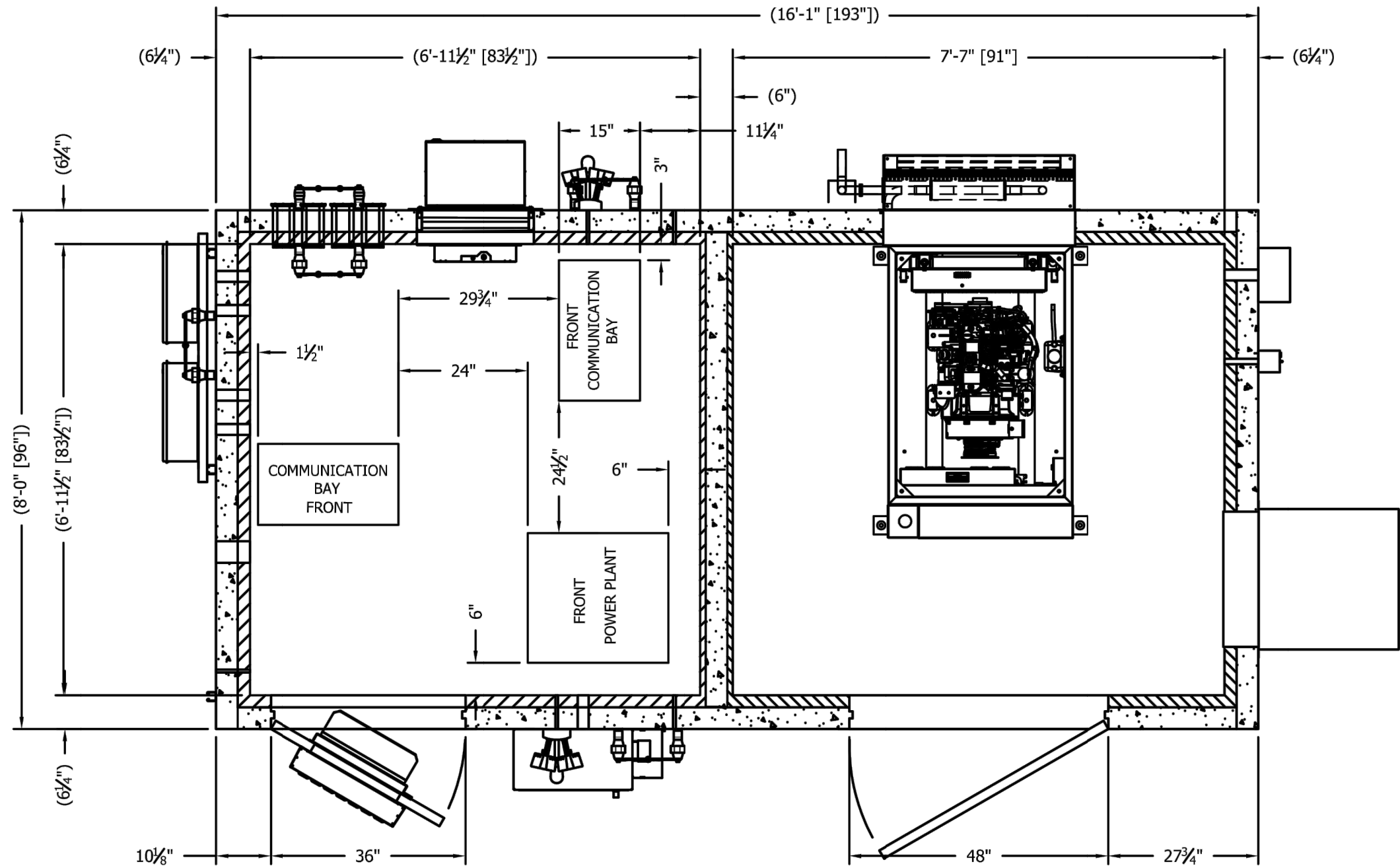
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YORK - ROOTS ROCK RD		
FA# 12676392		
SITE# S4097		

PROJECT INFORMATION:
5 ROOTS ROCK ROAD
YORK, ME 03909
YORK COUNTY

SHEET TITLE:
CONSTRUCTION DETAILS

SCALE: NONE

PROJECT NUMBER	45551
SHEET NUMBER	A-2



SATN74 - WIC GENERATOR

WALK-IN CABINET DETAILS
SCALE: NTS

1



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ISSUE	PRELIMINARY	DATE	11/06/2019
PHASE		ISSUED	

PROJECT TITLE:
YORK - ROOTS ROCK RD
FA# 12676392
SITE# S4097

PROJECT INFORMATION:
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YORK, ME 03909
YORK COUNTY

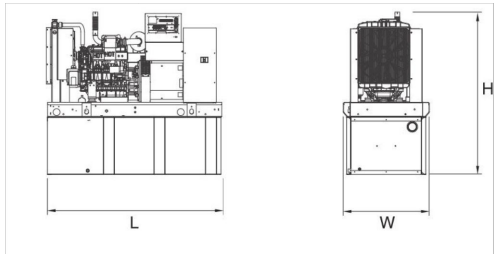
SHEET TITLE:
WALK-IN CABINET DETAILS

SCALE: NONE

PROJECT NUMBER	45551
SHEET NUMBER	A-3

SD020 | 2.4L | 20 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency

DIMENSIONS AND WEIGHTS*



OPEN SET

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)	WT lbs (kg) - Tank & Open Set
NO TANK	-	76 (1930.4) x 37.4 (949.9) x 42.2 (1072.1)	2060 (934)
30	54 (204.4)	76 (1930.4) x 37.4 (949.9) x 55.2 (1402.1)	2540 (1152)
75	132 (499.7)	76 (1930.4) x 37.4 (949.9) x 67.2 (1706.9)	2770 (1257)
119	211 (798.7)	76 (1930.4) x 37.4 (949.9) x 79.2 (2011.7)	2979 (1351)
170	300 (1135.6)	92.9 (2360) x 37.4 (949.9) x 82.7 (2100.6)	3042 (1380)

SD020 | 2.4L | 20 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General	
Make	Generac
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emissions Data Sheet
Cylinder #	4
Type	In-Line
Displacement - L (cu In)	2.4 (146.46)
Bore - mm (in)	90 (3.54)
Stroke - mm (in)	94 (3.70)
Compression Ratio	21.3:1
Intake Air Method	Turbocharged
Cylinder Head Type	Cast Iron
Piston Type	Aluminium

Engine Governing

Governor	Electronic Isochronous
Frequency Regulation (Steady State)	+/- 0.25%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full Flow
Crankcase Capacity - L (qts)	6.2 (6.52)

ALTERNATOR SPECIFICATIONS

Standard Model	390
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5%
Telephone Interference Factor (TIF)	<50

Cooling System

Cooling System Type	Closed Recovery
Water Pump	Pre-Lubed, Self Sealing
Fan Type	Pusher
Fan Speed (rpm)	2698
Fan Diameter mm (in)	560 (22)
Coolant Heater Wattage	1500
Coolant Heater Standard Voltage	120 VAC

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel
Fuel Specifications	ASTM
Fuel Filtering (microns)	5
Fuel Injection	Distribution Injection Pump
Fuel Pump Type	Engine Driven Gear
Injector Type	Mechanical
Fuel Supply Line mm (in)	7.94 (0.31)
Fuel Return Line mm (in)	7.94 (0.31)

Engine Electrical System

System Voltage	12 VDC
Battery Charging Alternator	Std
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

Standard Excitation	Synchronous
Bearings	Single Sealed Cartridge
Coupling	Direct, Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%

GENERATOR DETAILS

SCALE: NTS

SD020 | 2.4L | 20 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency

STANDARD FEATURES

ENGINE SYSTEM General <ul style="list-style-type: none">Oil Drain ExtensionAir CleanerFan GuardStainless Steel flexible exhaust connectionCritical Exhaust Silencer (enclosed only)Factory Filled OilRadiator Duct Adapter (open set only) Fuel System <ul style="list-style-type: none">Fuel lockoff solenoidPrimary fuel filter Cooling System <ul style="list-style-type: none">Closed Coolant Recovery SystemUV/Ozone resistant hosesFactory-installed RadiatorRadiator Drain Extension50/50 Ethylene glycol antifreeze120 VAC Coolant Heater Engine Electrical System <ul style="list-style-type: none">Battery charging alternatorBattery cablesBattery traySolenoid activated starter motorRubber-booted engine electrical connections	ALTERNATOR SYSTEM <ul style="list-style-type: none">UL2290 GENprotec®12 leads (3-phase, non 600 V)Class H insulation materialVented rotor2/3 pitchSlowed rotorAuxiliary voltage regulator power windingAmorlisneur windingBrushless ExcitationSealed BearingsAutomated manufacturing (winding, insertion, lacing, varnishing)Rotor dynamically spin balancedFull load capacity alternatorProtective thermal switch GENERATOR SET <ul style="list-style-type: none">Internal Genset Vibration IsolationSeparation of circuits - high/low voltageSeparation of circuits - multiple breakersSilencer Heat ShieldWrapped Exhaust PipingSilencer housed in discharge hood (enclosed only)Standard Factory Testing2 Year Limited Warranty (Standby rated Units)1 Year Limited Warranty (Prime rated Units)Silencer mounted in the discharge hood (enclosed only)	ENCLOSURE (IF SELECTED) <ul style="list-style-type: none">Rust-proof fasteners with nylon washers to protect finishHigh performance sound-absorbing materialGasketed doorsStamped air-intake louversAir discharge hoods for radiator-upward pointingStainless steel lift off door hingesStainless steel lockable handlesRhino Coat™ - Textured polyester powder coat TANKS (IF SELECTED) <ul style="list-style-type: none">UL 142Double wallVentsSlipped topSlipped bottomFactory pressure tested (2 psi)Rupture basin alarmFuel levelCheck valve in supply and return linesRhino Coat™ - Textured polyester powder coatStainless hardware
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CONTROL SYSTEM



Control Panel <ul style="list-style-type: none">Digital H Control Panel - Dual 4x20 DisplayProgrammable Crank Limiter7-Day Programmable ExerciserSpecial Applications Programmable PLCRS-232C/485All-Phase Sensing DVRFull System StatusUtility MonitoringLow Fuel Pressure Indication2-Wire Start CompatiblePower Output (kW)	<ul style="list-style-type: none">Power FactorkW Hours, Total & Last RunReal/Reactive/Apparent PowerAll Phase AC VoltageAll Phase CurrentsOil PressureCoolant TemperatureCoolant LevelEngine SpeedBattery VoltageFrequencyDate/Time Fault History (Event Log)Isochronous Governor ControlWaterproof/sealed ConnectionsAudible Alarms and ShutdownsNot In Auto (Flashing Light)Auto/Off/Manual SwitchE-Stop (Red Mushroom-Type)NFPA110 Level I and II (Programmable)Customizable Alarms, Warnings, and EventsModbus protocolPredictive Maintenance algorithmSealed BoardsPassword parameter adjustment protection
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GENERAC | INDUSTRIAL POWER

SD020 | 2.4L | 20 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency

CONFIGURABLE OPTIONS

ENGINE SYSTEM General <ul style="list-style-type: none">Oil HeaterIndustrial Exhaust Silencer Fuel System <ul style="list-style-type: none">Flexible fuel linesPrimary fuel filter Engine Electrical System <ul style="list-style-type: none">10A UL battery charger2.5A UL battery chargerBattery Warmer ALTERNATOR SYSTEM <ul style="list-style-type: none">Alternator UpsizingAnti-Condensation HeaterTropical coatingPermanent Magnet Excitation	CIRCUIT BREAKER OPTIONS <ul style="list-style-type: none">Main Line Circuit Breaker2nd Main Line Circuit BreakerShunt Trip and Auxiliary ContactElectronic Trip Breaker GENERATOR SET <ul style="list-style-type: none">Gen-Link Communications Software (English Only)8 Position Load Center2 Year Extended Warranty5 Year Warranty5 Year Extended Warranty ENCLOSURE <ul style="list-style-type: none">Weather ProtectedLevel 1 Sound AttenuationLevel 2 Sound AttenuationSteel EnclosureAluminum Enclosure150 MPH Wind Kit12 VDC Enclosure Lighting Kit120 VAC Enclosure Lighting KitAC/DC Enclosure Lighting KitDoor Alarm Switch	TANKS (Size on last page) <ul style="list-style-type: none">Electrical Fuel LevelMechanical Fuel Level54 Gal (204.4 L) Usable Capacity132 Gal (499.7 L) Usable Capacity211 Gal (798.7 L) Usable Capacity300 Gal (1135.6 L) Usable Capacity8" Fill Extension13" Fill Extension19" Fill Extension CONTROL SYSTEM <ul style="list-style-type: none">21-Light Remote AnnunciatorRemote Relay Panel (8 or 16)Oil Temperature Sender with Indication AlarmRemote E-Stop (Break Glass-Type, Surface Mount)Remote E-Stop (Red Mushroom-Type, Surface Mount)Remote E-Stop (Red Mushroom-Type, Flush Mount)Remote Communication - ModemRemote Communication - Ethernet10A Run RelayGround Fault Indication and Protection Functions
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ENGINEERED OPTIONS

ENGINE SYSTEM <ul style="list-style-type: none">Coolant heater ball valvesBlock HeatersFluid containment pans ALTERNATOR SYSTEM <ul style="list-style-type: none">3rd Breaker Systems CONTROL SYSTEM <ul style="list-style-type: none">Spare Inputs (x4) / outputs (x4) - H Panel OnlyBattery Disconnect Switch	GENERATOR SET <ul style="list-style-type: none">Special TestingIBC Seismic Certification ENCLOSURE <ul style="list-style-type: none">MotORIZED DampersDoor switched for intrusion alertEnclosure ambient heaters	TANKS <ul style="list-style-type: none">Overflow Protection ValveUL2085 TankULC S-601 TankStainless Steel TankSpecial Fuel Tanks (MDEQ and FL DEP/DERM, etc.)Vent Extensions
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RATING DEFINITIONS

Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

Prime - Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. A 10% overload capacity is available for 1 out of every 12 hours. The Prime Power option is only available on International applications. Power ratings in accordance with ISO 8528-1, Second Edition



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ISSUE PHASE	PRELIMINARY	DATE ISSUED	11/06/2019
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PROJECT TITLE:
YORK - ROOTS ROCK RD
FA# 12676392
SITE# S4097

PROJECT INFORMATION:
5 ROOTS ROCK ROAD
YORK, ME 03909
YORK COUNTY

SHEET TITLE:

GENERATOR DETAILS

SCALE: NONE

PROJECT NUMBER	45551
SHEET NUMBER	A-4

SPEC SHEET

2 OF 6

SPEC SHEET

Diagram - SectorA

Atoll Site Name - ME4097

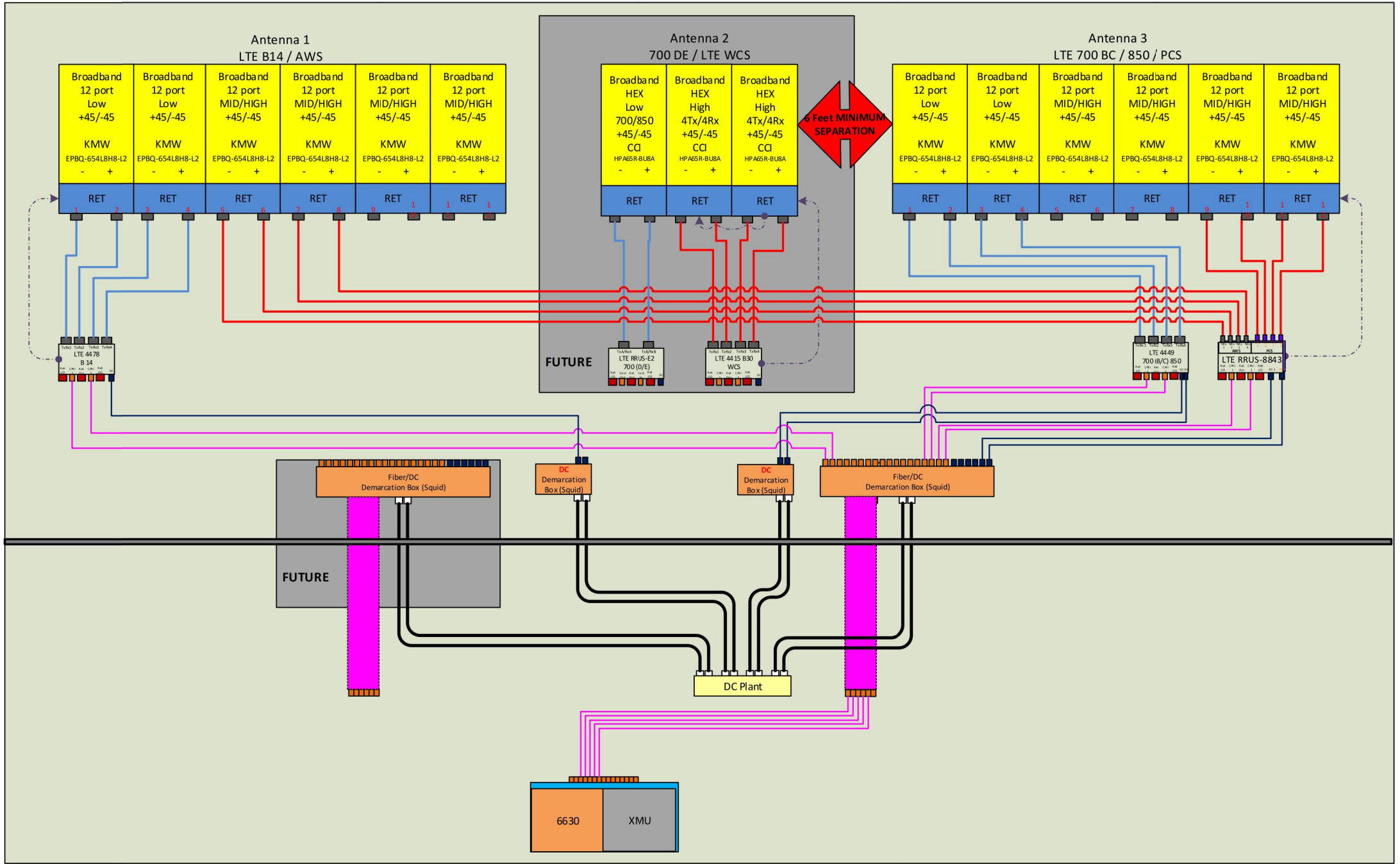
Comments:

Diagram File Name - ME4097 5C v2.vsd

Location Name - MAINE YORK STREET

Market - BOSTON

Market Cluster - NEW ENGLAND



ALPHA SECTOR PLUMBING DIAGRAM, BETA & GAMMA SECTOR SIMILAR

BASED ON: RF ENGINEERING DESIGN ENTITLED "12676392_S4097_RFDS_11-27-2018_PRELIMINARY-IN-PROGRESS-V4.00" LAST REVISED 05/03/2019.

RF PLUMBING DIAGRAMS
SCALE: NTS

1



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ISSUE PHASE PRELIMINARY DATE ISSUED 11/06/2019

PROJECT TITLE:
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SITE# S4097

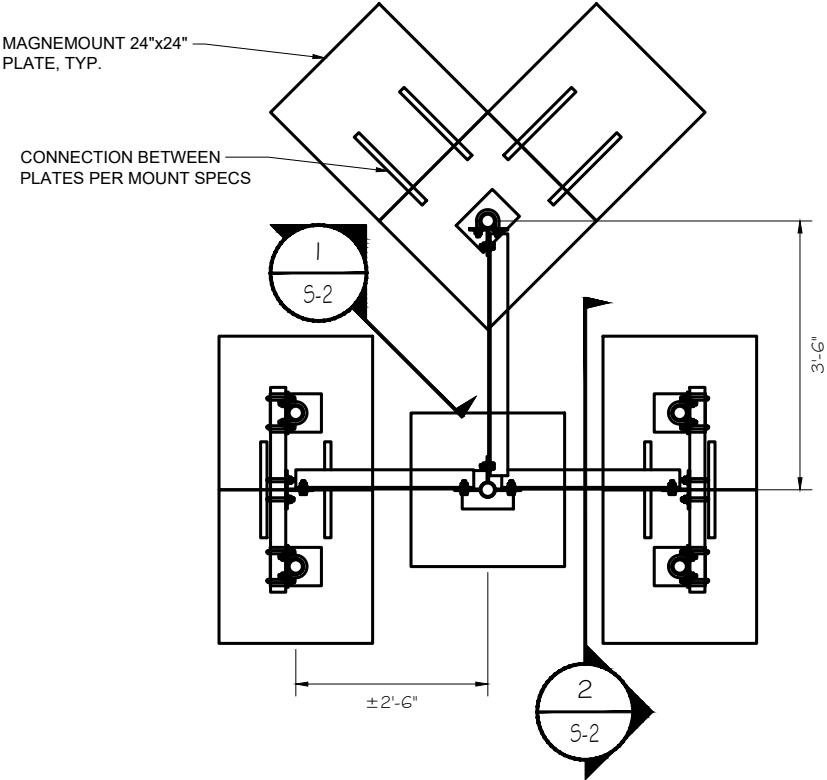
PROJECT INFORMATION:
5 ROOTS ROCK ROAD
YORK, ME 03909
YORK COUNTY

SHEET TITLE:

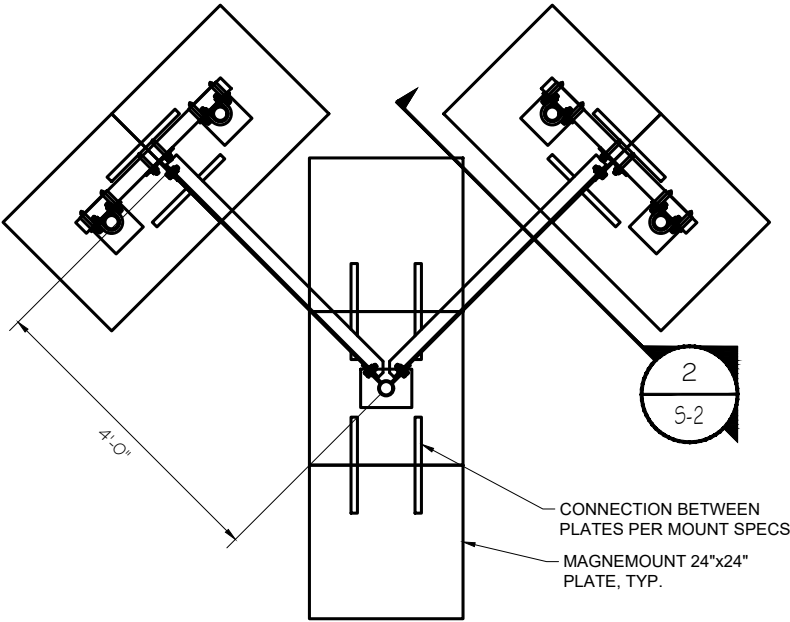
RF PLUMBING DIAGRAMS

SCALE: NONE

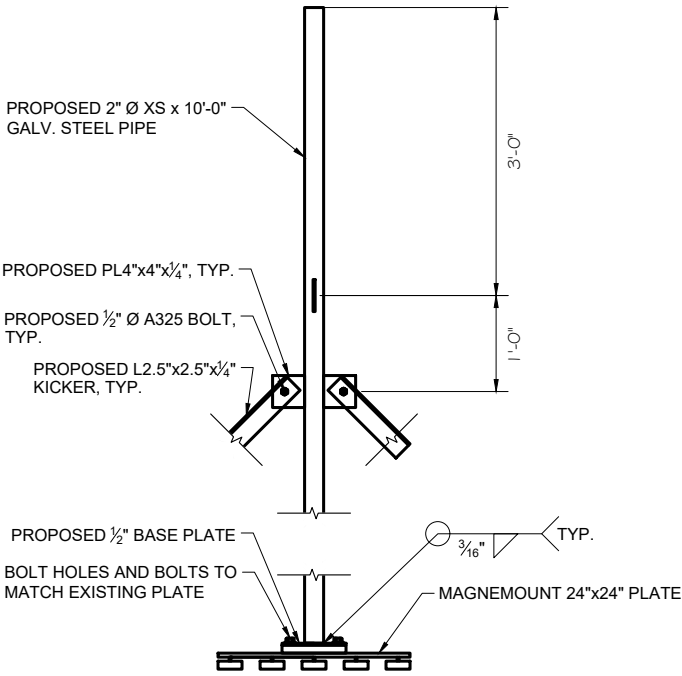
PROJECT NUMBER 45551
SHEET NUMBER A-5



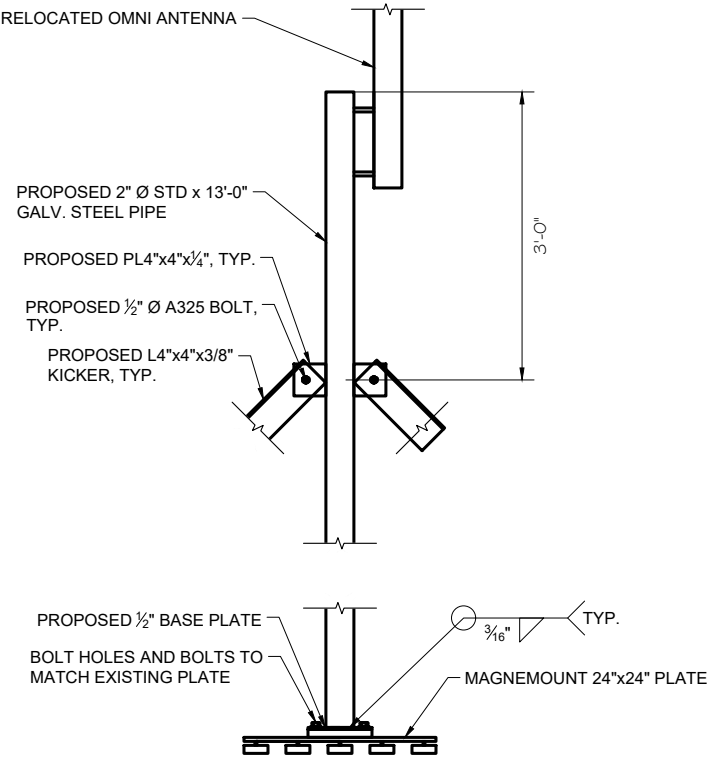
MOUNT PLAN
SCALE: NTS



OMNI MOUNT PLAN
SCALE: NTS



MOUNT ELEVATION
SCALE: NTS



OMNI MOUNT ELEVATION
SCALE: NTS



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PROJECT TITLE:
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SITE# S4097

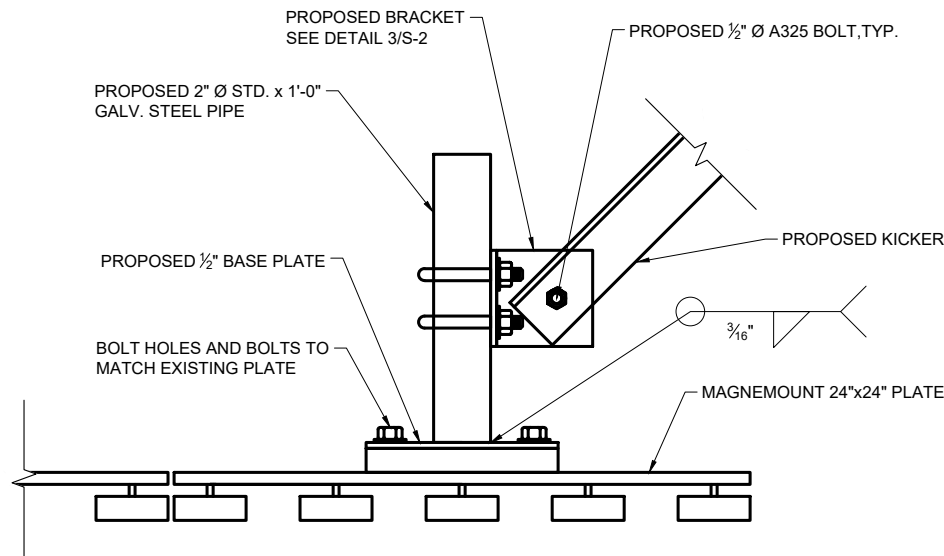
PROJECT INFORMATION:
5 ROOTS ROCK ROAD
YORK, ME 03909
YORK COUNTY

SHEET TITLE:

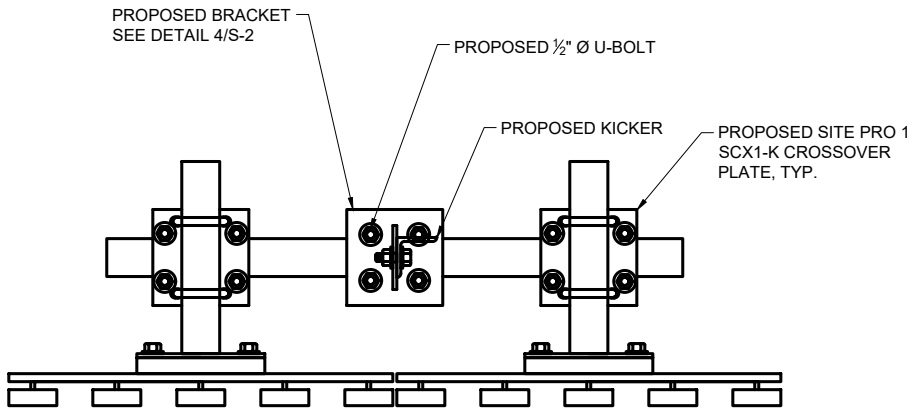
STRUCTURAL DETAILS

SCALE: NONE

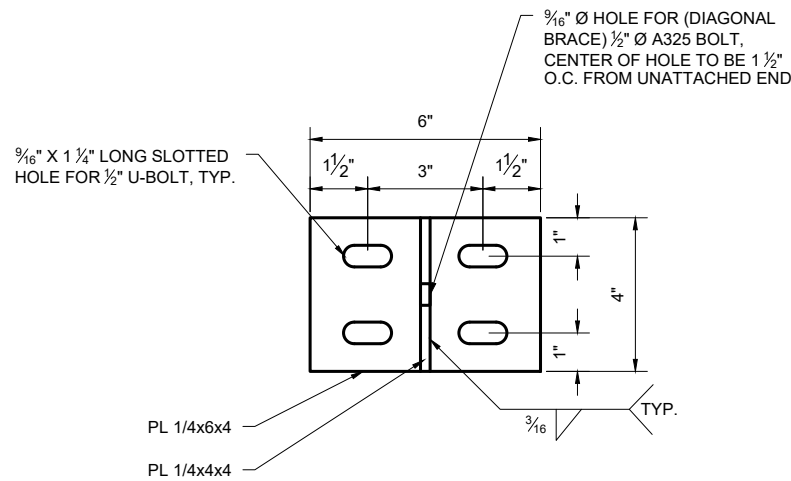
PROJECT NUMBER	45551
SHEET NUMBER	S-1



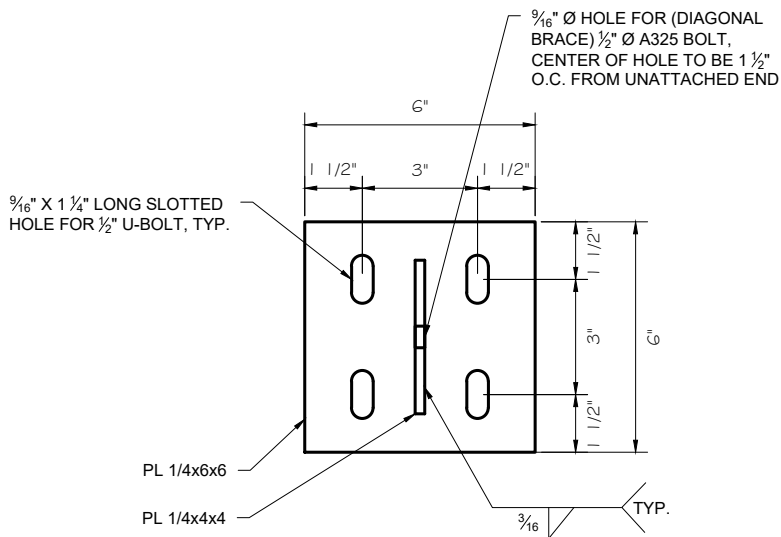
SECTION 1
SCALE: NTS



SECTION 2
SCALE: NTS



CONNECTION DETAIL 3
SCALE: NTS



CONNECTION DETAIL 4
SCALE: NTS



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PRELIMINARY	11/06/2019

PROJECT TITLE:
YORK - ROOTS ROCK RD
FA# 12676392
SITE# S4097



PROJECT INFORMATION:
5 ROOTS ROCK ROAD
YORK, ME 03909
YORK COUNTY

SHEET TITLE:

STRUCTURAL DETAILS

SCALE: NONE

PROJECT NUMBER	45551
SHEET NUMBER	S-2

LEGEND:	
	PROPOSED ELECTRIC
	PROPOSED TELCO



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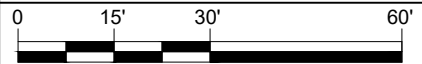
ISSUE PHASE	PRELIMINARY	DATE ISSUED	11/06/2019
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PROJECT TITLE:
YORK - ROOTS ROCK RD
FA# 12676392
SITE# S4097

PROJECT INFORMATION:
5 ROOTS ROCK ROAD
YORK, ME 03909
YORK COUNTY

SHEET TITLE:

UTILITY DETAILS



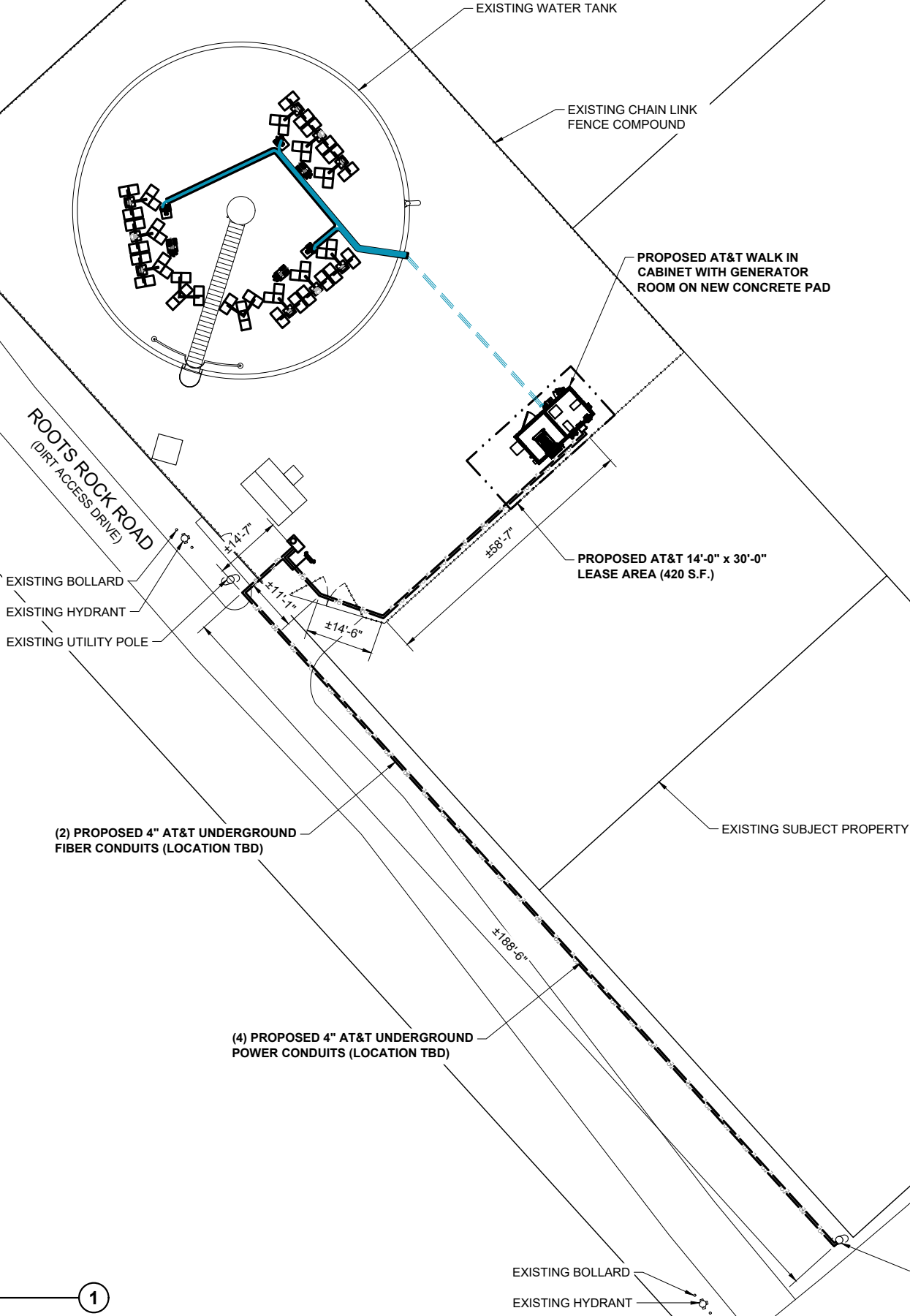
11" x 17" - 1" = 30'
22" x 34" - 1" = 15'

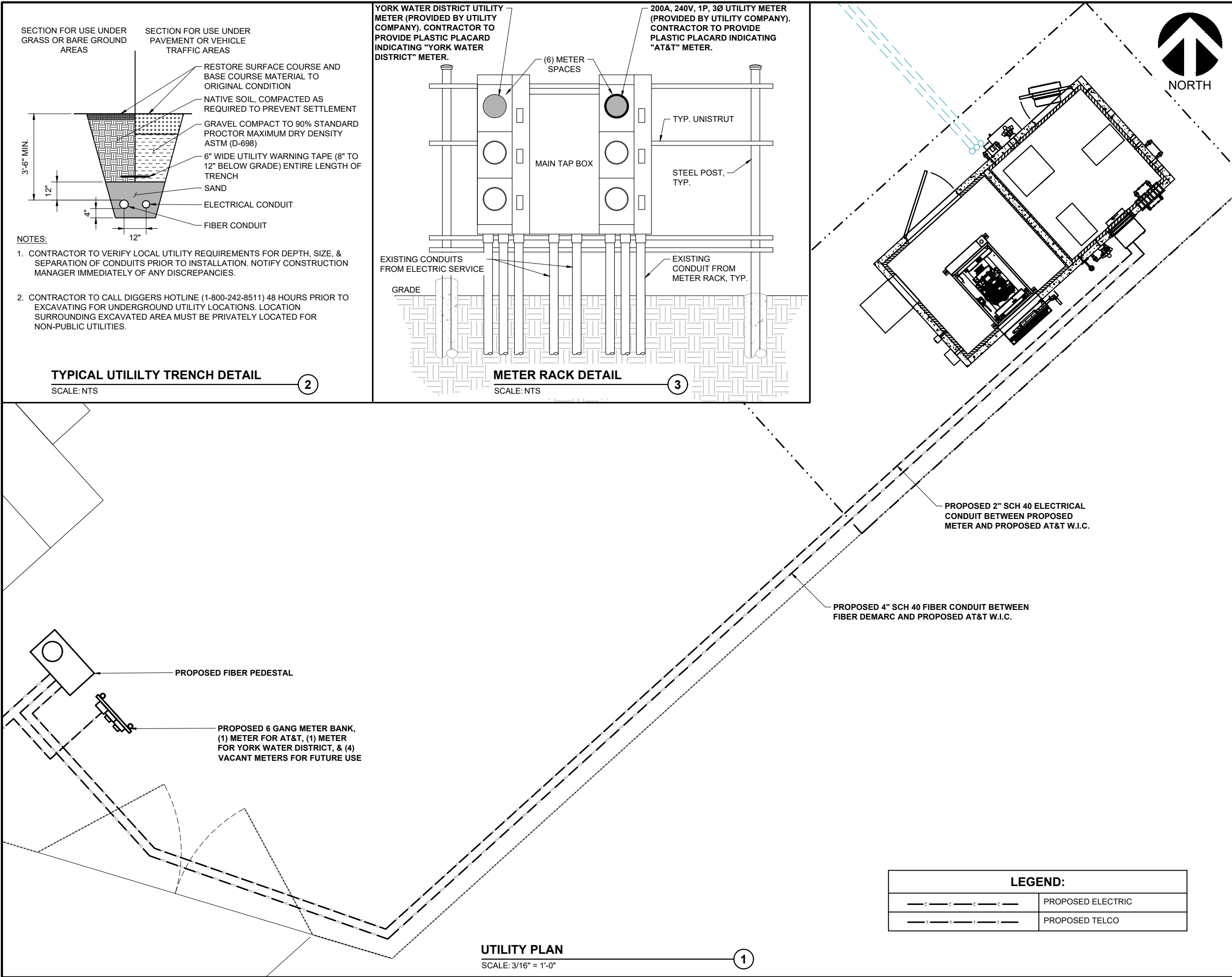
PROJECT NUMBER	45551
SHEET NUMBER	E-1

UTILITY PLAN

SCALE: 1" = 30'

1





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ISSUE PHASE: PRELIMINARY DATE ISSUED: 11/06/2019

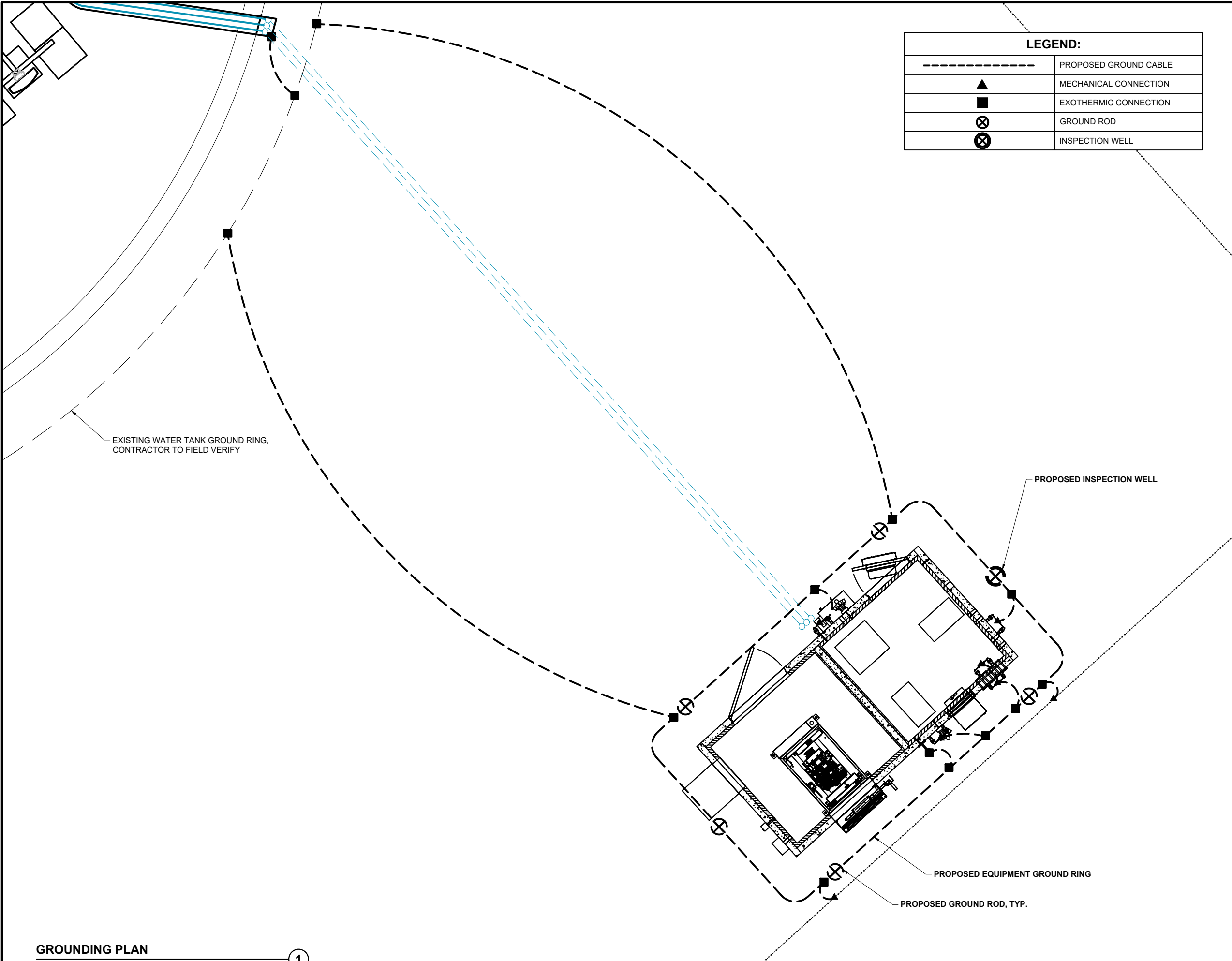
PROJECT TITLE:
YORK - ROOTS ROCK RD
FA# 12676392
SITE# S4097

PROJECT INFORMATION:
5 ROOTS ROCK ROAD
YORK, ME 03909
YORK COUNTY

SHEET TITLE:
UTILITY DETAILS

0 2.5' 5' 10'
11" x 17" - 3/16" = 1'
22" x 34" - 3/8" = 1'

PROJECT NUMBER: 45551
SHEET NUMBER: E-2



GROUNDING PLAN
SCALE: 1" = 5'

1



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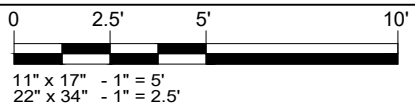
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YORK - ROOTS ROCK RD
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SITE# S4097

PROJECT INFORMATION:
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YORK, ME 03909
YORK COUNTY

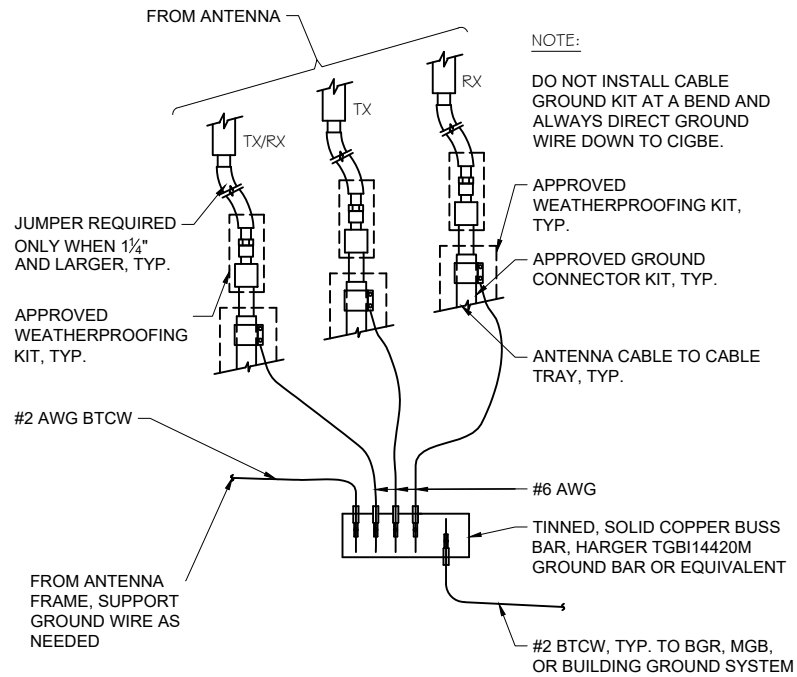
SHEET TITLE:

GROUNDING PLAN



11" x 17" - 1" = 5'
22" x 34" - 1" = 2.5'

PROJECT NUMBER	45551
SHEET NUMBER	G-1



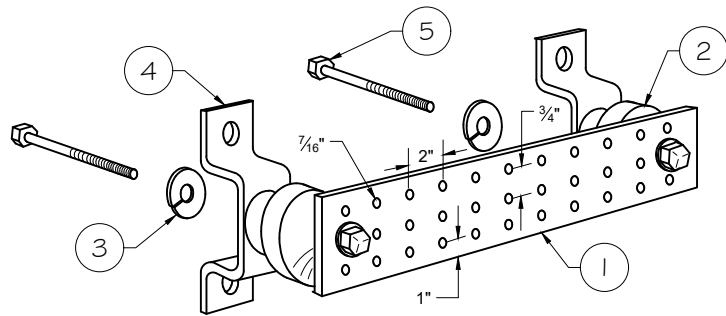
GROUND WIRE TO GROUND BAR DETAIL

SCALE: NTS

1

NOTES:

1. ALL MOUNTING HARDWARE CAN BE USED ON 6", 12", 18", ETC. GROUND BARS.
2. ENTIRE ASSEMBLY AVAILABLE FROM NEWTON INSTRUMENT CO. CAT. NO. 2106060010 OR AS HARGER TGBI14420M.



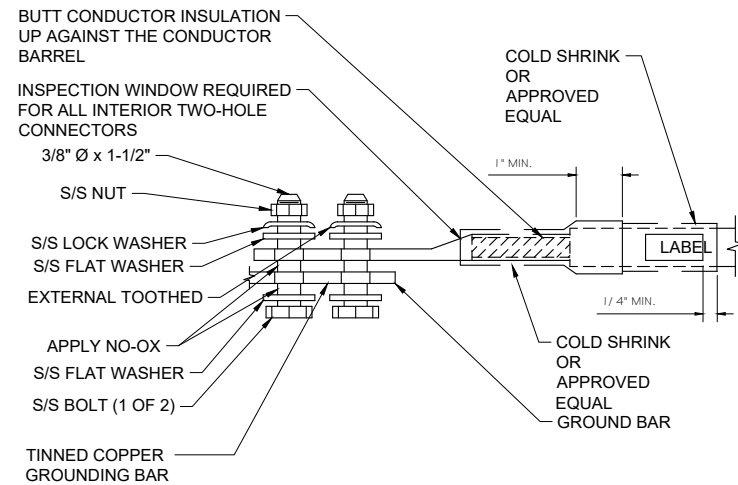
LEGEND

1. TINNED COPPER GROUND BAR, 1/4" x 4" x 20", NEWTON CO., HARGER TGBI14420M, OR EQUIVALENT. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
2. INSULATORS. INSTRUMENT CO. CAT. NO. 3061-4 OR HARGER EQUIVALENT.
3. 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8 OR EQUIVALENT.
4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT. NO. A-6056 OR HARGER EQUIVALENT.
5. 5/8" x 1" H.H.C.S. BOLTS, NEWTON INSTRUMENT CO. CAT. NO. 3012-1 OR HARGER EQUIVALENT.

TYPICAL GROUND BAR DETAIL

SCALE: NTS

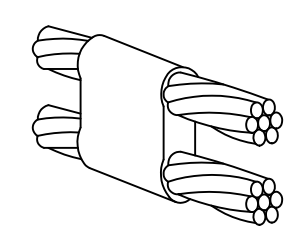
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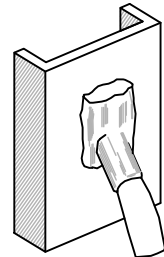
TYPICAL GROUND BAR CONNECTION DETAIL

SCALE: NTS

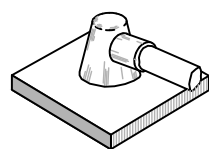
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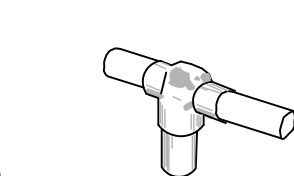
TYPE PT (PARALLEL HORIZ. COND.)
PARALLEL THROUGH CONNECTION
OF HORIZONTAL CABLES



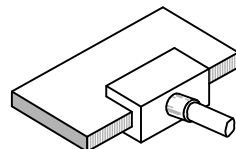
TYPE VS (VERT. STEEL SURFACE)
CABLE TAP DOWN AT 45° TO VERTICAL
STEEL SURFACE INCLUDING PIPE



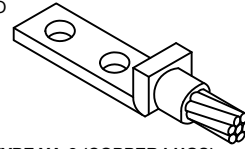
TYPE HS (HORIZ. STEEL SURFACE)
TO FLAT STEEL SURFACE
OR HORIZONTAL PIPE



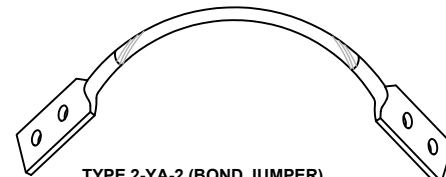
TYPE GT (THROUGH CABLE TO GROUND ROD)
THROUGH CABLE TO TOP OF GROUND ROD



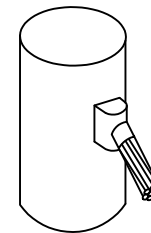
TYPE LJ (FLAT BUSBAR)
TAP OF HORIZONTAL CABLE TO
EDGE OF HORIZONTAL



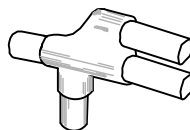
TYPE YA-2 (COPPER LUGS)
TWO HOLE - LONG BARREL LENGTH



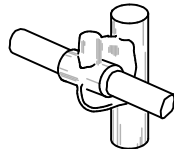
TYPE 2-YA-2 (BOND JUMPER)
FIELD FABRICATED GREEN
STRANDED INSULATED



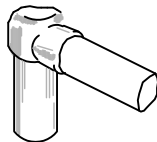
TYPE VS (VERTICAL PIPE)
CABLE TAP DOWN AT 45° TO
RANGE OF VERTICAL PIPES



TYPE NC
THROUGH AND TAP CABLES TO
GROUND ROD



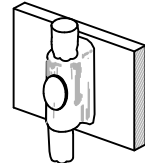
TYPE GY
THROUGH CABLE TO SIDE OF
GROUND ROD



TYPE GR
CABLE TAP TO TOP OF
GROUND ROD



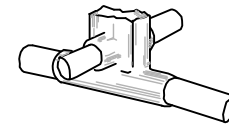
TYPE TA
TEE OF HORIZONTAL RUN AND
TAP CABLES



TYPE W
THROUGH VERTICAL CABLE TO
VERTICAL STEEL SURFACE OR
TO THE SIDE OF EITHER
HORIZONTAL OR VERTICAL
PIPE



TYPE PC
PARALLEL TAP CABLES



TYPE XB
CROSS OF HORIZONTAL
CABLES. LAPPED AND NOT CUT.

TYPICAL CADWELD TYPES DETAIL

SCALE: NTS

4



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SITE# S4097

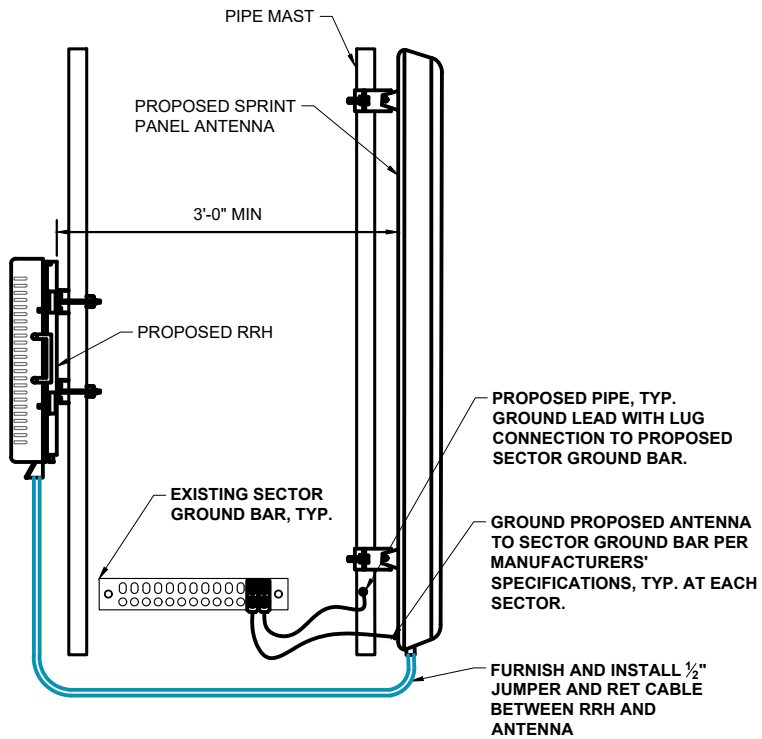
PROJECT INFORMATION:
5 ROOTS ROCK ROAD
YORK, ME 03909
YORK COUNTY

SHEET TITLE:

GROUNDING DETAILS

SCALE: NONE

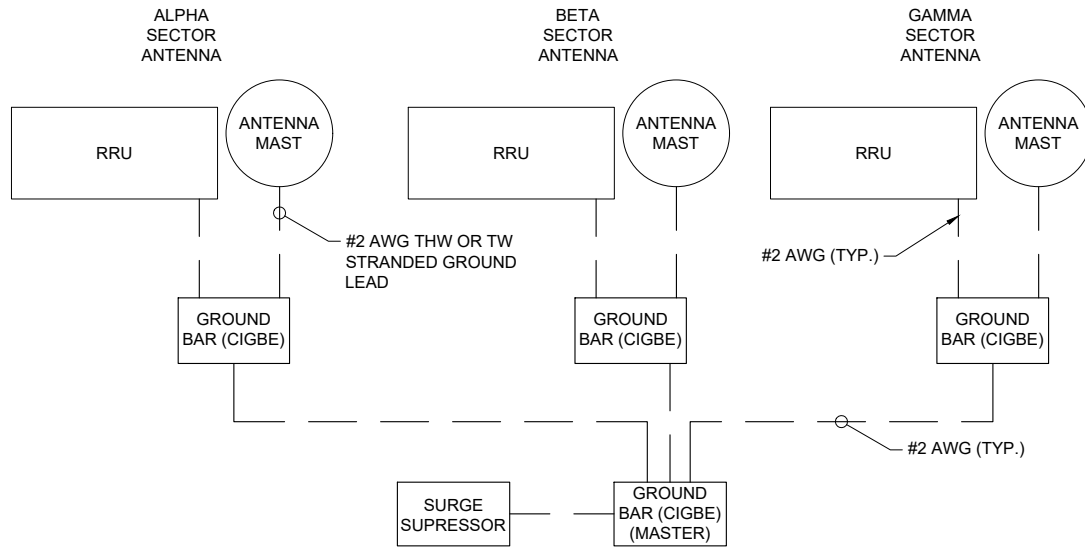
PROJECT NUMBER	45551
SHEET NUMBER	G-2



ANTENNA & RRU GROUNDING DETAIL

SCALE: NTS

1



SCHEMATIC DIAGRAM GROUNDING SYSTEM

SCALE: NTS

2

DETAIL NOT USED

SCALE: NTS

3



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YORK COUNTY

SHEET TITLE:

GROUNDING DETAILS

SCALE: NONE

PROJECT NUMBER	45551
SHEET NUMBER	G-3