

GENERAL NOTES

PART 1 – GENERAL REQUIREMENTS

- 1.1 THE WORK SHALL COMPLY WITH APPLICABLE NATIONAL CODES AND STANDARDS, LATEST EDITION, AND PORTIONS THEREOF, INCLUDED BUT NOT LIMITED TO THE FOLLOWING:
- A. GR-63-CORE NEBS REQUIREMENTS: PHYSICAL PROTECTION
 - B. GR-78-CORE GENERIC REQUIREMENTS FOR THE PHYSICAL DESIGN AND MANUFACTURE OF TELECOMMUNICATIONS EQUIPMENT.
 - C. NATIONAL FIRE PROTECTION ASSOCIATION CODES AND STANDARDS (NFPA) INCLUDING NFPA 70 (NATIONAL ELECTRICAL CODE – "NEC").
 - D. AND NFPA 101 (LIFE SAFETY CODE).
 - E. AMERICAN SOCIETY FOR TESTING OF MATERIALS (ASTM).
 - F. INSTITUTE OF ELECTRONIC AND ELECTRICAL ENGINEERS (IEEE).
- 1.2 DEFINITIONS:
- A. WORK: THE SUM OF TASKS AND RESPONSIBILITIES IDENTIFIED IN THE CONTRACT DOCUMENTS.
 - B. COMPANY: UNITED FIBER & DATA CORPORATION
 - C. ENGINEER: SYNONYMOUS WITH ARCHITECT & ENGINEER AND "A&E". THE DESIGN PROFESSIONAL HAVING PROFESSIONAL RESPONSIBILITY FOR DESIGN OF THE PROJECT.
 - D. CONTRACTOR: CONSTRUCTION CONTRACTOR; CONSTRUCTION VENDOR; INDIVIDUAL OR ENTITY WHO AFTER EXECUTION OF A CONTRACT IS BOUND TO ACCOMPLISH THE WORK.
 - E. THIRD PARTY VENDOR OR AGENCY: A VENDOR OR AGENCY ENGAGED SEPARATELY BY THE COMPANY, A&E, OR CONTRACTOR TO PROVIDE MATERIALS OR TO ACCOMPLISH SPECIFIC TASKS RELATED TO BUT NOT INCLUDED IN THE WORK.
- 1.3 POINT OF CONTACT: COMMUNICATION BETWEEN THE COMPANY AND THE CONTRACTOR SHALL FLOW THROUGH THE SINGLE COMPANY SITE DEVELOPMENT SPECIALIST OR OTHER PROJECT COORDINATOR APPOINTED TO MANAGE THE PROJECT FOR THE COMPANY.
- 1.4 ON-SITE SUPERVISION: THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL EMPLOY A COMPETENT SUPERINTENDENT WHO SHALL BE IN ATTENDANCE AT THE SITE AT ALL TIMES DURING PERFORMANCE OF THE WORK.
- 1.5 DRAWINGS, SPECIFICATIONS AND DETAILS REQUIRED AT JOBSITE: THE CONSTRUCTION CONTRACTOR SHALL MAINTAIN A FULL SET OF THE CONSTRUCTION DRAWINGS, STANDARD CONSTRUCTION DETAILS FOR REGEN SITES, AND THE STANDARD CONSTRUCTION SPECIFICATIONS FOR REGEN SITES AT THE JOBSITE FROM MOBILIZATION THROUGH CONSTRUCTION COMPLETION.
- A. THE JOBSITE DRAWINGS, SPECIFICATIONS AND DETAILS SHALL BE CLEARLY MARKED DAILY IN PENCIL WITH ANY CHANGES IN CONSTRUCTION OVER WHAT IS DEPICTED IN THE DOCUMENTS. AT CONSTRUCTION COMPLETION, THIS JOBSITE MARKUP SET SHALL BE DELIVERED TO THE COMPANY OR COMPANY'S DESIGNATED REPRESENTATIVE TO BE FORWARDED TO THE COMPANY'S A&E VENDOR FOR PRODUCTION OF "AS-BUILT" DRAWINGS.
- 1.6 USE OF JOB SITE: THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION AND RELATED OPERATIONS INCLUDING STAGING AND STORAGE OF MATERIALS AND EQUIPMENT, PARKING, TEMPORARY FACILITIES, AND WASTE STORAGE TO THE LEASE PARCEL UNLESS OTHERWISE PERMITTED BY THE CONTRACT DOCUMENTS.
- 1.7 NOTICE TO PROCEED:
- A. NO WORK SHALL COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED.
 - B. UPON RECEIVING NOTICE TO PROCEED, CONTRACTOR SHALL FULLY PERFORM ALL WORK NECESSARY TO PROVIDE UNITED FIBER & DATA WITH AN OPERATIONAL REGEN FACILITY.

PART 2 – EXECUTION

- 2.1 TEMPORARY UTILITIES AND FACILITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY UTILITIES AND FACILITIES NECESSARY EXCEPT AS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS. TEMPORARY UTILITIES AND FACILITIES INCLUDE, POTABLE WATER, HEAT, HVAC, ELECTRICITY, SANITARY FACILITIES, WASTE DISPOSAL FACILITIES, AND TELEPHONE/COMMUNICATION SERVICES. PROVIDE TEMPORARY UTILITIES AND FACILITIES IN ACCORDANCE WITH OSHA AND THE AUTHORITY HAVING JURISDICTION. CONTRACTOR MAY UTILIZE THE COMPANY ELECTRICAL SERVICE IN THE COMPLETION OF THE WORK WHEN IT BECOMES AVAILABLE. USE OF THE LESSORS OR SITE OWNER'S UTILITIES OR FACILITIES IS EXPRESSLY FORBIDDEN EXCEPT AS OTHERWISE ALLOWED IN THE CONTRACT DOCUMENTS.
- 2.2 ACCESS TO WORK: THE CONTRACTOR SHALL PROVIDE ACCESS TO THE JOB SITE FOR AUTHORIZED COMPANY PERSONNEL AND AUTHORIZED REPRESENTATIVES OF THE ARCHITECT/ENGINEER DURING ALL PHASES OF THE WORK.
- 2.3 TESTING: REQUIREMENTS FOR TESTING BY THIS CONTRACTOR SHALL BE AS INDICATED HERewith, ON THE CONSTRUCTION DRAWINGS, AND IN THE INDIVIDUAL SECTIONS OF THESE SPECIFICATIONS. SHOULD COMPANY CHOOSE TO ENGAGE ANY THIRD-PARTY TO CONDUCT ADDITIONAL TESTING, THE CONTRACTOR SHALL COOPERATE WITH AND PROVIDE A WORK AREA FOR COMPANY'S TEST AGENCY.

- 2.4 COMPANY FURNISHED MATERIAL AND EQUIPMENT: ALL HANDLING, STORAGE AND INSTALLATION OF COMPANY FURNISHED MATERIAL AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
- A. CONTRACTOR SHALL PROCURE ALL OTHER REQUIRED WORK RELATED MATERIALS NOT PROVIDED BY UNITED FIBER & DATA TO SUCCESSFULLY CONSTRUCT A REGEN FACILITY.
- 2.5 DIMENSIONS: VERIFY DIMENSIONS INDICATED ON DRAWINGS WITH FIELD DIMENSIONS BEFORE FABRICATION OR ORDERING OF MATERIALS. DO NOT SCALE DRAWINGS.
- 2.6 EXISTING CONDITIONS: NOTIFY THE COMPANY REPRESENTATIVE OF EXISTING CONDITIONS DIFFERING FROM THOSE INDICATED ON THE DRAWINGS. DO NOT REMOVE OR ALTER STRUCTURAL COMPONENTS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT AND ENGINEER.

PART 3 – RECEIPT OF MATERIAL & EQUIPMENT

- 3.1 RECEIPT OF MATERIAL AND EQUIPMENT: CONTRACTOR IS RESPONSIBLE FOR UNITED FIBER & DATA PROVIDED MATERIAL AND EQUIPMENT AND UPON RECEIPT SHALL:
- A. ACCEPT DELIVERIES AS SHIPPED AND TAKE RECEIPT.
 - B. VERIFY COMPLETENESS AND CONDITION OF ALL DELIVERIES.
 - C. TAKE RESPONSIBILITY FOR EQUIPMENT AND PROVIDE INSURANCE PROTECTION AS REQUIRED IN AGREEMENT.
 - D. RECORD ANY DEFECTS OR DAMAGES AND WITHIN TWENTY-FOUR HOURS AFTER RECEIPT, REPORT TO UNITED FIBER & DATA OR ITS DESIGNATED PROJECT REPRESENTATIVE OF SUCH.
 - E. PROVIDE SECURE AND NECESSARY WEATHER PROTECTED WAREHOUSING.
 - F. COORDINATE SAFE AND SECURE TRANSPORTATION OF MATERIAL AND EQUIPMENT, DELIVERING AND OFF-LOADING FROM CONTRACTOR'S WAREHOUSE TO SITE.

PART 4 – GENERAL REQUIREMENTS FOR CONSTRUCTION

- 4.1 CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH. AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL REMOVE FROM THE SITE ALL REMAINING RUBBISH, IMPLEMENTS, TEMPORARY FACILITIES, AND SURPLUS MATERIALS.
- 4.2 EQUIPMENT ROOMS SHALL AT ALL TIMES BE MAINTAINED "BROOM CLEAN" AND CLEAR OF DEBRIS.
- 4.3 CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO DISCOVER AND LOCATE ANY HAZARDOUS CONDITION.
- A. IN THE EVENT CONTRACTOR ENCOUNTERS ANY HAZARDOUS CONDITION WHICH HAS NOT BEEN ABATED OR OTHERWISE MITIGATED, CONTRACTOR AND ALL OTHER PERSONS SHALL IMMEDIATELY STOP WORK IN THE AFFECTED AREA AND NOTIFY COMPANY IN WRITING. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED EXCEPT BY WRITTEN NOTIFICATION BY COMPANY.
 - B. CONTRACTOR AGREES TO USE CARE WHILE ON THE SITE AND SHALL NOT TAKE ANY ACTION THAT WILL OR MAY RESULT IN OR CAUSE THE HAZARDOUS CONDITION TO BE FURTHER RELEASED IN THE ENVIRONMENT, OR TO FURTHER EXPOSE INDIVIDUALS TO THE HAZARD.
- 4.4 CONTRACTOR'S ACTIVITIES SHALL BE RESTRICTED TO THE PROJECT LIMITS. SHOULD AREAS OUTSIDE THE PROJECT LIMITS BE AFFECTED BY CONTRACTOR'S ACTIVITIES, CONTRACTOR SHALL IMMEDIATELY RETURN THEM TO ORIGINAL CONDITION.
- 4.5 CONDUCT TESTING AS REQUIRED HEREIN.

PART 5 – TESTS AND INSPECTIONS

- 5.1 TESTS AND INSPECTIONS:
- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION TESTS, INSPECTIONS AND PROJECT DOCUMENTATION.
 - B. CONTRACTOR SHALL COORDINATE TEST AND INSPECTION SCHEDULES WITH COMPANY'S REPRESENTATIVE WHO MUST BE ON SITE TO WITNESS SUCH TESTS AND INSPECTIONS.
 - C. WHEN THE USE OF A THIRD PARTY INDEPENDENT TESTING AGENCY IS REQUIRED, THE AGENCY THAT IS SELECTED MUST PERFORM SUCH WORK ON A REGULAR BASIS IN THE STATE WHERE THE PROJECT IS LOCATED AND HAVE A THOROUGH UNDERSTANDING OF LOCAL AVAILABLE MATERIALS, INCLUDING THE SOIL, ROCK, AND GROUNDWATER CONDITIONS.
 - D. THE THIRD PARTY TESTING AGENCY IS TO BE FAMILIAR WITH THE APPLICABLE REQUIREMENTS FOR THE TESTS TO BE DONE, EQUIPMENT TO BE USED, AND ASSOCIATED HEALTH AND SAFETY ISSUES.
 - E. SITE RESISTANCE TO EARTH TESTING PER EXHIBIT: CELL SITE GROUNDING SYSTEM DESIGN.
 - F. ALL OTHER TESTS REQUIRED BY COMPANY OR JURISDICTION.

PART 6 – TRENCHING AND BACKFILLING

- 6.1 TRENCHING AND BACKFILLING: THE CONTRACTOR SHALL PERFORM ALL EXCAVATION OF EVERY DESCRIPTION AND OF WHATEVER SUBSTANCES ENCOUNTERED, TO THE DEPTHS INDICATED ON THE CONSTRUCTION DRAWINGS OR AS OTHERWISE SPECIFIED.
- A. PROTECTION OF EXISTING UTILITIES: THE CONTRACTOR SHALL CHECK WITH THE LOCAL UTILITIES AND THE RESPECTIVE UTILITY LOCATOR COMPANIES PRIOR TO STARTING EXCAVATION OPERATIONS IN EACH RESPECTIVE AREA TO ASCERTAIN THE LOCATIONS OF KNOWN UTILITY LINES. THE LOCATIONS, NUMBER AND TYPES OF EXISTING UTILITY LINES DETAILED ON THE CONSTRUCTION DRAWINGS ARE APPROXIMATE AND DO NOT REPRESENT EXACT INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL LINES DAMAGED DURING EXCAVATION AND ALL ASSOCIATED OPERATIONS. ALL UTILITY LINES UNCOVERED DURING THE EXCAVATION OPERATIONS, SHALL BE PROTECTED FROM DAMAGE DURING EXCAVATION AND ASSOCIATED OPERATIONS. ALL REPAIRS SHALL BE APPROVED BY THE UTILITY COMPANY.
 - B. HAND DIGGING: UNLESS APPROVED IN WRITING OTHERWISE, ALL DIGGING WITHIN AN EXISTING CELL SITE COMPOUND IS TO BE DONE BY HAND.
 - C. DURING EXCAVATION, MATERIAL SUITABLE FOR BACKFILLING SHALL BE STOCKPILED IN AN ORDERLY MANNER A SUFFICIENT DISTANCE FROM THE BANKS OF THE TRENCH TO AVOID OVERLOADING AND TO PREVENT SLIDES OR CAVE-INS. ALL EXCAVATED MATERIALS NOT REQUIRED OR SUITABLE FOR BACKFILL SHALL BE REMOVED AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
 - D. GRADING SHALL BE DONE AS MAY BE NECESSARY TO PREVENT SURFACE WATER FROM FLOWING INTO TRENCHES OR OTHER EXCAVATIONS, AND ANY WATER ACCUMULATING THEREIN SHALL BE REMOVED BY PUMPING OR BY OTHER APPROVED METHOD.
 - E. SHEETING AND SHORING SHALL BE DONE AS NECESSARY FOR THE PROTECTION OF THE WORK AND FOR THE SAFETY OF PERSONNEL. UNLESS OTHERWISE INDICATED, EXCAVATION SHALL BE BY OPEN CUT, EXCEPT THAT SHORT SECTIONS OF A TRENCH MAY BE TUNNELED IF, THE CONDUIT CAN BE SAFELY AND PROPERLY INSTALLED AND BACKFILL CAN BE PROPERLY TAMPED IN SUCH TUNNEL SECTIONS. EARTH EXCAVATION SHALL COMPRISE ALL MATERIALS AND SHALL INCLUDE CLAY, SILT, SAND, MUCK, GRAVEL, HARDPAN, LOOSE SHALE, AND LOOSE STONE.
 - F. TRENCHES SHALL BE OF NECESSARY WIDTH FOR THE PROPER LAYING OF THE CONDUIT OR CABLE, AND THE BANKS SHALL BE AS NEARLY VERTICAL AS PRACTICABLE. THE BOTTOM OF THE TRENCHES SHALL BE ACCURATELY GRADED TO PROVIDE UNIFORM BEARING AND SUPPORT FOR EACH SECTION OF THE CONDUIT OR CABLE ON UNDISTURBED SOIL AT EVERY POINT ALONG ITS ENTIRE LENGTH. EXCEPT WHERE ROCK IS ENCOUNTERED, CARE SHALL BE TAKEN NOT TO EXCAVATE BELOW THE DEPTHS INDICATED. WHERE ROCK EXCAVATIONS ARE NECESSARY, THE ROCK SHALL BE EXCAVATED TO A MINIMUM OVER DEPTH OF 6 INCHES BELOW THE TRENCH DEPTHS INDICATED ON THE CONSTRUCTION DRAWINGS OR SPECIFIED. OVER DEPTHS IN THE ROCK EXCAVATION AND UNAUTHORIZED OVER DEPTHS SHALL BE THOROUGHLY BACK FILLED AND TAMPED TO THE APPROPRIATE GRADE. WHENEVER WET OR OTHERWISE UNSTABLE SOIL THAT IS INCAPABLE OF PROPERLY SUPPORTING THE CONDUIT OR CABLE IS ENCOUNTERED IN THE BOTTOM OF THE TRENCH, SUCH SOLID SHALL BE REMOVED TO A MINIMUM OVER DEPTH OF 6 INCHES AND THE TRENCH BACKFILLED TO THE PROPER GRADE WITH EARTH OF OTHER SUITABLE MATERIAL, AS HEREINAFTER SPECIFIED.
 - G. BACKFILLING OF TRENCHES. TRENCHES SHALL NOT BE BACKFILLED UNTIL ALL SPECIFIED TESTS HAVE BEEN PERFORMED AND ACCEPTED. WHERE COMPACTED BACKFILL IS NOT INDICATED THE TRENCHES SHALL BE CAREFULLY BACKFILLED WITH SELECT MATERIAL SUCH AS EXCAVATED SOILS THAT ARE FREE OF ROOTS, SOD, RUBBISH OR STONES, DEPOSITED IN 6 INCH LAYERS AND THOROUGHLY AND CAREFULLY RAMMED UNTIL THE CONDUIT OR CABLE HAS A COVER OF NOT LESS THAN 1 FOOT. THE REMAINDER OF THE BACKFILL MATERIAL SHALL BE GRANULAR IN NATURE AND SHALL NOT CONTAIN ROOTS, SOD, RUBBING, OR STONES OF 2-1/2 INCH MAXIMUM DIMENSION. BACKFILL SHALL BE CAREFULLY PLACED IN THE TRENCH AND IN 1 FOOT LAYERS AND EACH LAYER TAMPED. SETTLING THE BACKFILL WITH WATER WILL BE PERMITTED. THE SURFACE SHALL BE GRADED TO A REASONABLE UNIFORMITY AND THE MOUNDING OVER THE TRENCHES LEFT IN A UNIFORM AND NEAT CONDITION.

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER
	NON-FUSIBLE DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
	SURFACE MOUNTED PANEL BOARD
	TRANSFORMER
	KILOWATT HOUR METER
	JUNCTION BOX
	PULL BOX TO NEC/TELCO STANDARDS
-----	UNDERGROUND UTILITIES
	EXOTHERMIC WELD CONNECTION
	MECHANICAL CONNECTION
	GROUND ROD
	GROUND ROD WITH INSPECTION SLEEVE
	GROUND BAR
	120AC DUPLEX RECEPTACLE
	GROUND CONDUCTOR
	DC POWER AND FIBER OPTIC TRUNK CABLES
	DC POWER CABLES

REPRESENTS DETAIL NUMBER
 REF. DRAWING NUMBER

ABBREVIATIONS

MIGB	MASTER ISOLATED GROUND BAR
GPS	GLOBAL POSITIONING SYSTEM
TYP.	TYPICAL
DWG	DRAWING
BCW	BARE COPPER WIRE
BFG	BELOW FINISH GRADE
PVC	POLYVINYL CHLORIDE
CAB	CABINET
C	CONDUIT
SS	STAINLESS STEEL
G	GROUND
AWG	AMERICAN WIRE GAUGE
RGS	RIGID GALVANIZED STEEL
AHJ	AUTHORITY HAVING JURISDICTION
UNO	UNLESS NOTED OTHERWISE
EMT	ELECTRICAL METALLIC TUBING
AGL	ABOVE GROUND LEVEL

FirstLight

NTP WIRELESS
EVERY SITE, EVERY DAY

INFINIGY8
ENGINEERING, PLLC
1033 WATERVLIET SHAKER RD
ALBANY, NY 12205

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS.

ISSUED FOR CONSTRUCTION: JLM 03/19/2020

Drawn: MAP
Checked: JLM

Job #: 1086-20001-C

STATE OF NEW YORK
JOHN J. DELEON
071096
PROFESSIONAL ENGINEER

NY-003 DRYDEN

1622 DRYDEN ROAD
FREEVILLE, NY 13053

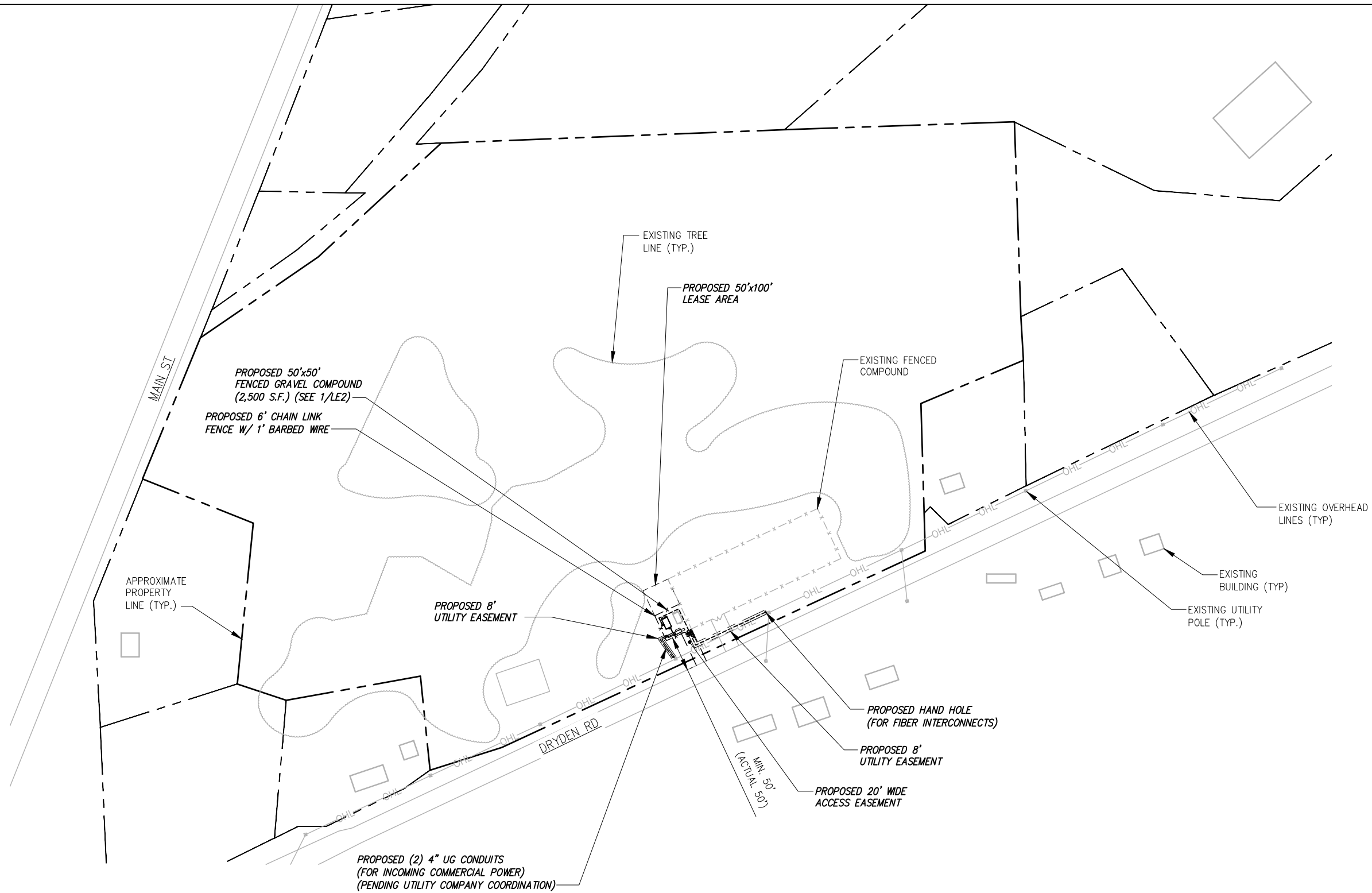
NOTES

N1

- GENERAL SITE NOTES:**
1. A COMPLETE BOUNDARY SURVEY OF THE HOST PARCEL HAS NOT BEEN PERFORMED BY INFINIGY SOLUTIONS. BOUNDARY INFORMATION WAS OBTAINED FROM DEEDS, GIS DATA, AND PLANS OF RECORD. PROPERTY IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
 2. SITE INFORMATION WAS OBTAINED FROM A FIELD INVESTIGATION PERFORMED BY INFINIGY SOLUTIONS. CONTRACTOR TO FIELD VERIFY DIMENSIONS AS NECESSARY BEFORE CONSTRUCTION.
 3. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE SIGNS OF ADVERTISING.
 4. THE PROPOSED DEVELOPMENT IS UNMANNED AND THEREFORE DOES NOT REQUIRE A MEANS OF WATER SUPPLY OR SEWAGE DISPOSAL.
 5. NO LANDSCAPING WORK IS PROPOSED IN CONJUNCTION WITH THIS DEVELOPMENT OTHER THAN THAT WHICH IS SHOWN.
 6. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES.
 7. UTILITIES SHOWN ON PLAN ARE TAKEN FROM OWNERS RECORDS, MISS UTILITY FIELD MARKINGS, AND FIELD LOCATION OF VISIBLE SURFACE FEATURES. THE EXISTENCE, EXTENT AND EXACT HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES HAS NOT BEEN VERIFIED. ANY CONTRACTOR PERFORMING WORK ON THIS SITE MUST CONTACT MISS UTILITY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.

SITE LEGEND

	SITE PROPERTY LINE
	STREET OR ROAD
	TREE/SHRUB
	TREE LINE
	UTILITY POLE



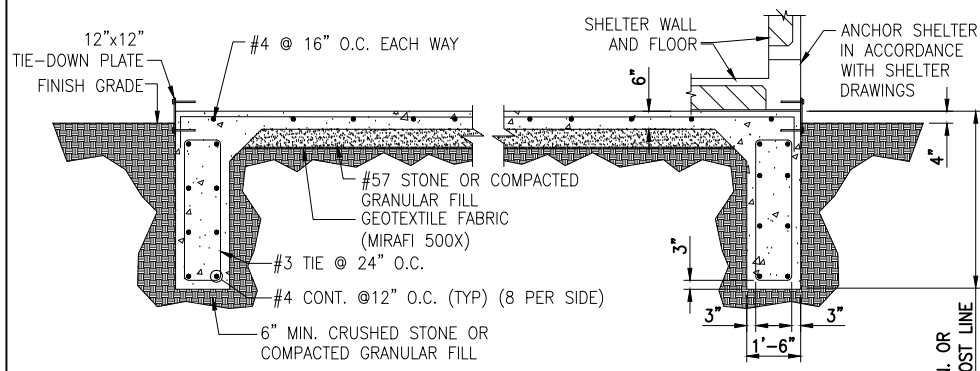
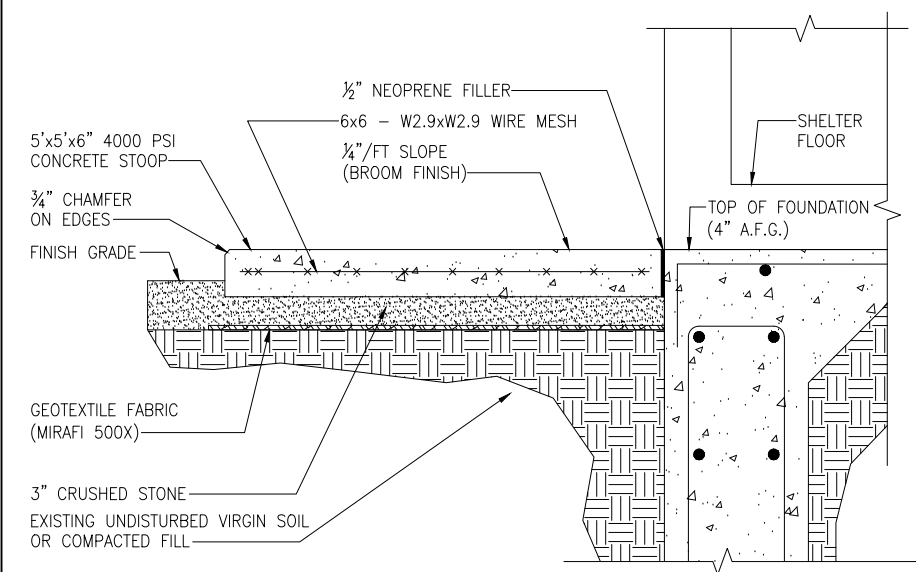
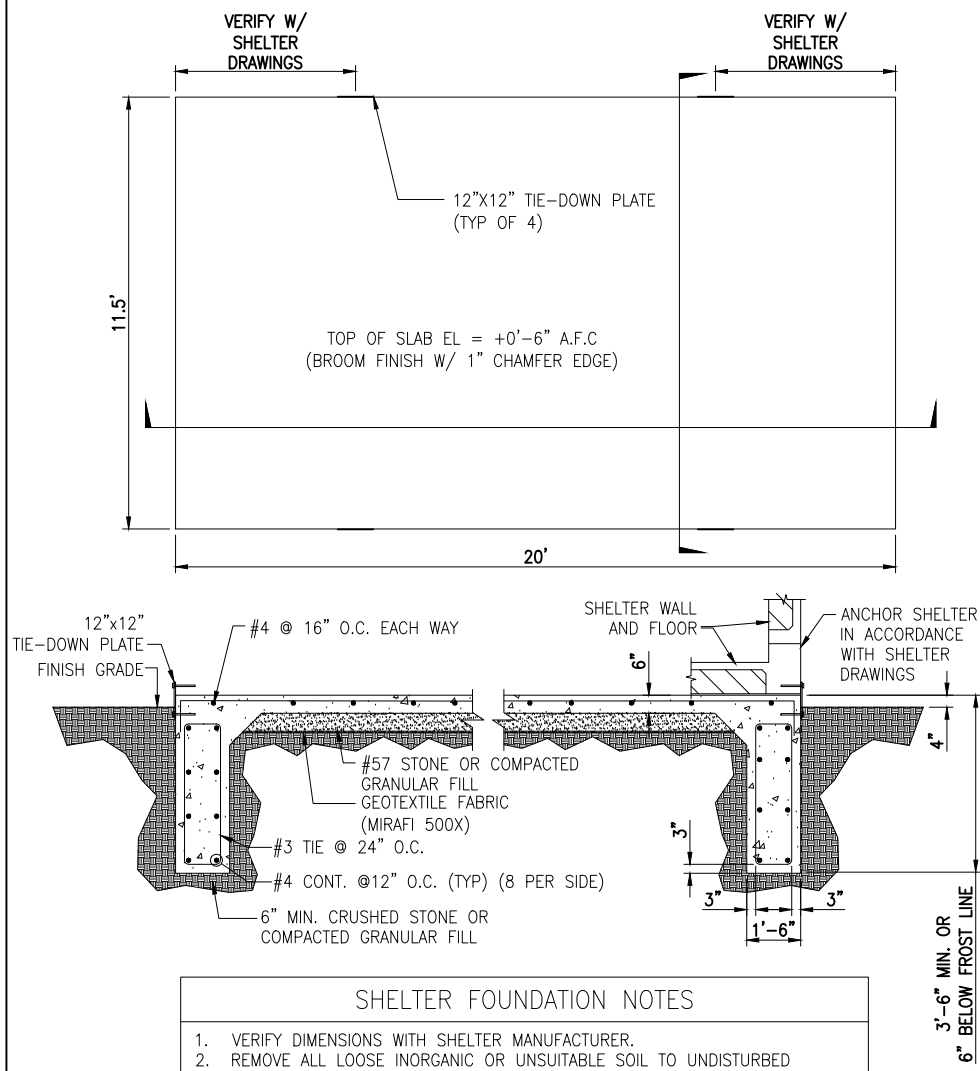
NORTH

1 SITE PLAN
C1 SCALE: AS NOTED

GRAPHIC SCALE:
200' 100' 0 100' 200'

SCALE (11x17): 1" = 200'-0"
SCALE (22x34): 1" = 100'-0"


 <small>EVERY SITE, EVERY DAY</small>	INFINIGY ENGINEERING, PLLC <small>1033 WATERVLIET SHAKER RD ALBANY, NY 12205</small>	<small>UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS.</small>	STATE OF NEW YORK JOHN P. STIVENI 03/19/2020 071096 REGISTERED PROFESSIONAL ENGINEER	NY-003 DRYDEN 1622 DRYDEN ROAD FREEVILLE, NY 13053						
		<table border="1"> <tr> <th>No.</th> <th>Submitted / Revision</th> <th>App'd</th> <th>Date</th> </tr> <tr> <td>0</td> <td>ISSUED FOR CONSTRUCTION</td> <td>JLM</td> <td>03/19/20</td> </tr> </table>	No.	Submitted / Revision	App'd	Date	0	ISSUED FOR CONSTRUCTION	JLM	03/19/20
No.	Submitted / Revision	App'd	Date							
0	ISSUED FOR CONSTRUCTION	JLM	03/19/20							




- SHELTER FOUNDATION NOTES**
1. VERIFY DIMENSIONS WITH SHELTER MANUFACTURER.
 2. REMOVE ALL LOOSE INORGANIC OR UNSUITABLE SOIL TO UNDISTURBED BEARING STRATA W/ ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
 3. CONCRETE STRENGTH SHALL BE 4000 PSI, MIN.
 4. SLAB SHALL BE LEVEL $\pm \frac{1}{4}$ "
 5. 12"x12" TIE DOWN PLATES BY SHELTER MANUFACTURER.
 6. THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED TO AT LEAST 95% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C

1 CONCRETE SHELTER PAD DETAIL
D1 SCALE: NTS

2 STOOP DETAIL
D1 SCALE: NTS




FirstLight



NTP WIRELESS
EVERY SITE, EVERY DAY

INFINIGY8
ENGINEERING, PLLC

1033 WATERVLJET SHAKER RD
ALBANY, NY 12205



UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS.

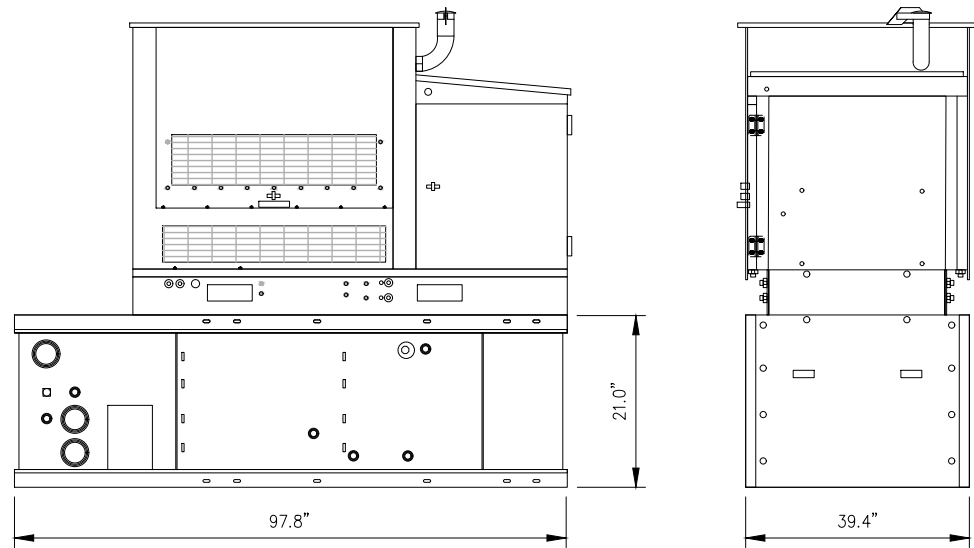
NY-003 DRYDEN

1622 DRYDEN ROAD
FREEVILLE, NY 13053

EQUIPMENT DETAILS

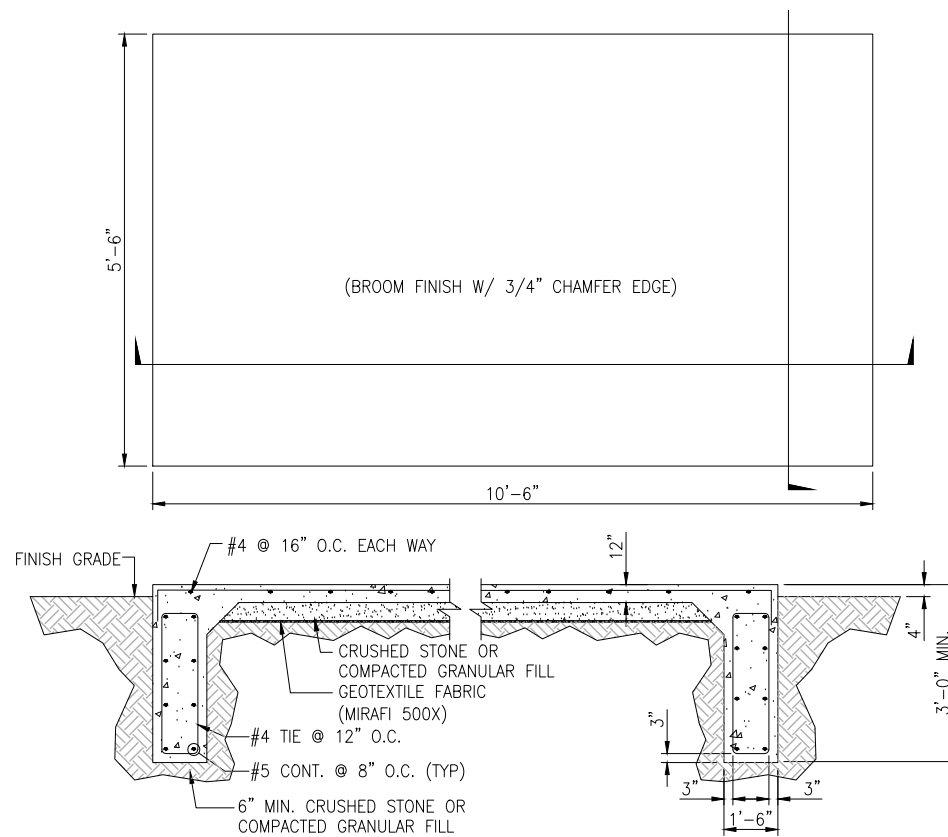
D1

0 ISSUED FOR CONSTRUCTION	JLM
No. Submittal / Revision	App'd
Drawn: MAP	Checked: JLM
Job #:	1086-20001-C

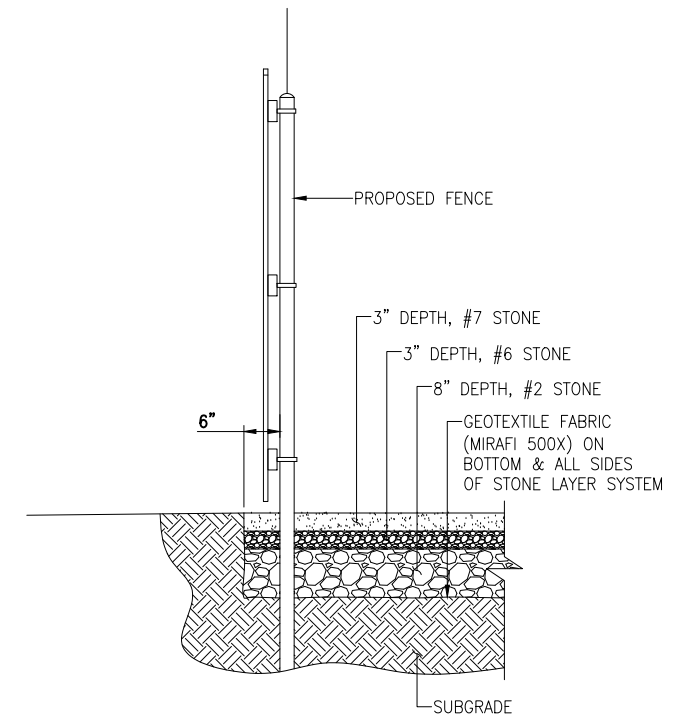


CATERPILLAR C4.4 50KW DIESEL GENERATOR SET
 W/ SOUND ATTENUATION ENCLOSURE AND
 INTEGRAL UL LISTED DUAL WALL 520 GALLON BELLY TANK
 GENERATOR MODEL #:D50-2LC
 TANK MODEL #:SBT140
 DBA @ 7M (23FT) AT 100% LOAD: 74

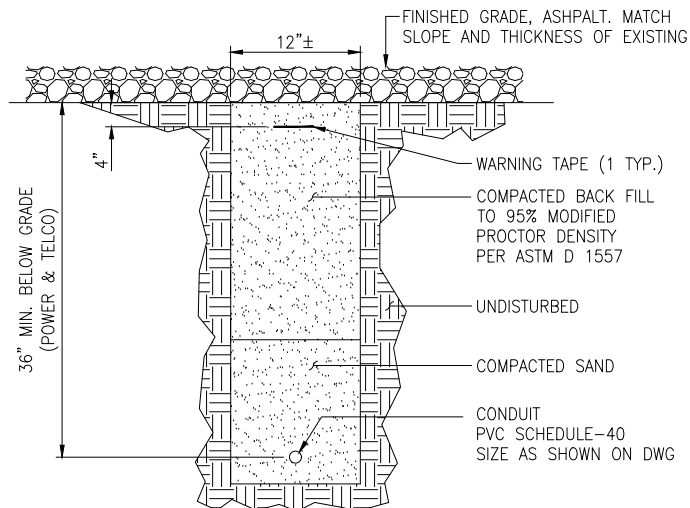
1 GENERATOR DETAIL
 D2 SCALE: NTS



2 GENERATOR PAD DETAIL
 D2 SCALE: NTS

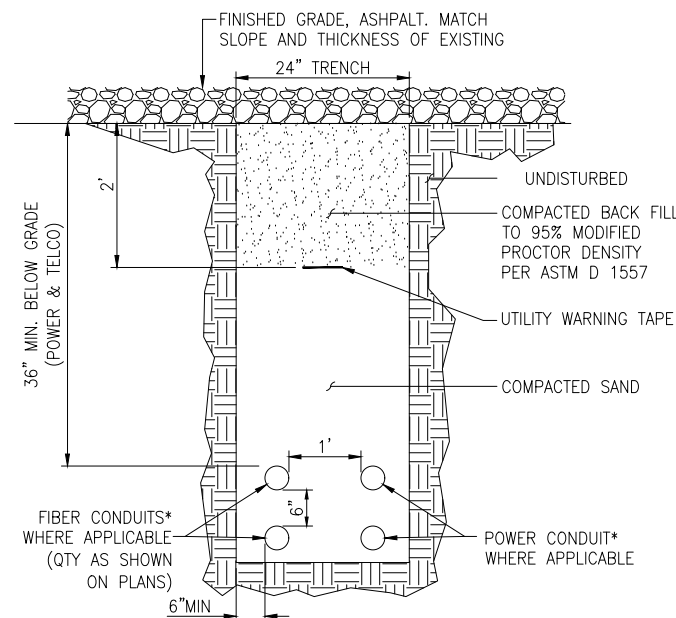


3 GRAVEL YARD DETAIL
 D2 SCALE: NTS

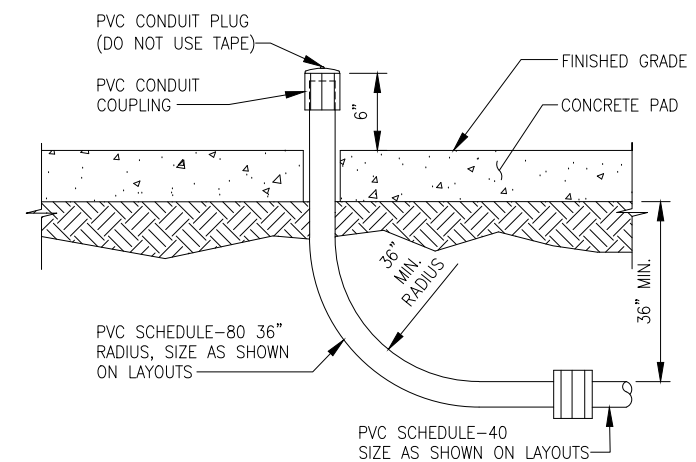


4 COMPOUND TRENCHING DETAIL
 D2 SCALE: NTS

* SEPARATION DIMENSION TO BE
 VERIFIED WITH LOCAL UTILITY
 COMPANY REQUIREMENTS SEE
 ELEC/TELCO PLAN FOR SIZES



5 PRIMARY FEEDER TRENCHING DETAIL
 D2 SCALE: NTS



6 STUB UP THROUGH CONCRETE DETAIL
 D2



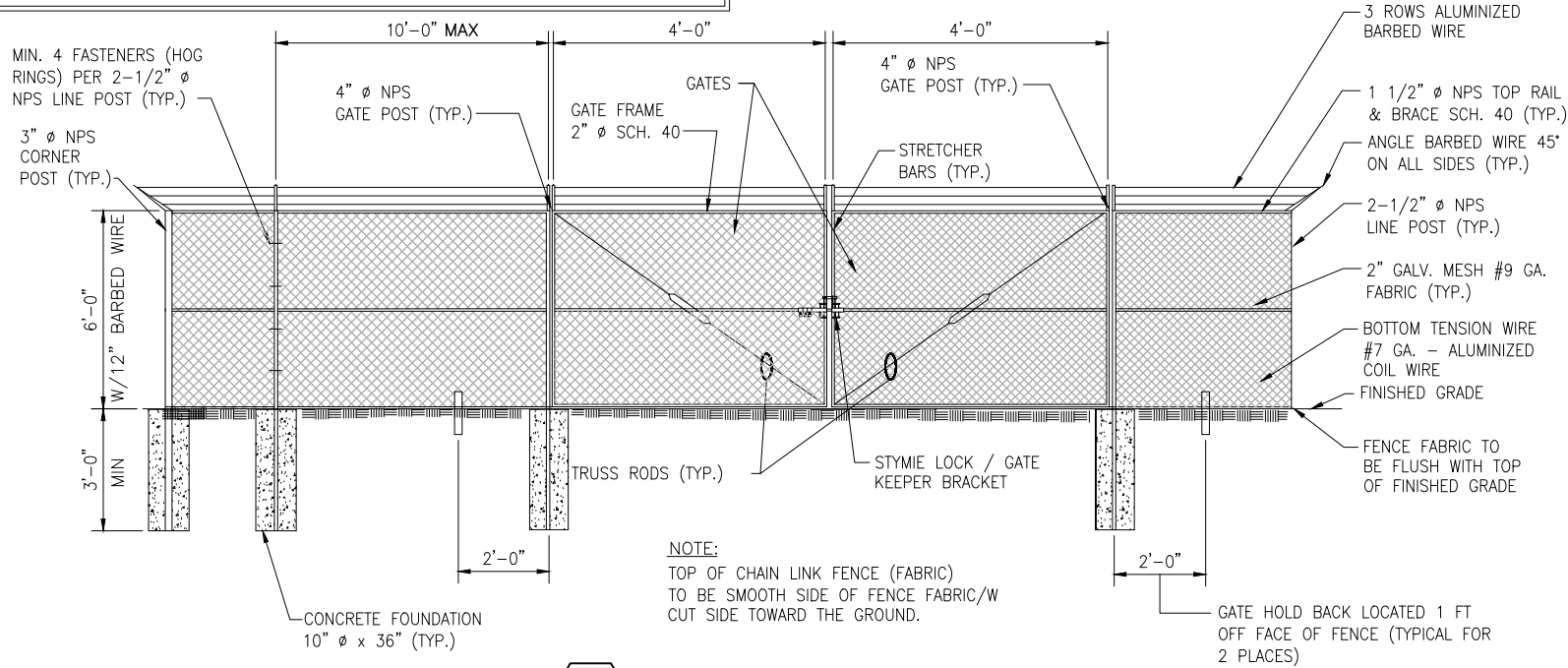
INFINIGY8
 ENGINEERING, PLLC
 1033 WATERLIET SHAKER RD
 ALBANY, NY 12205

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS			
ISSUED FOR CONSTRUCTION		JLM	03/19/2020
No.	Submital / Revision	App'd	Date
	Drawn: MAP		
	Checked: JLM		
Job #:		1086-20001-C	

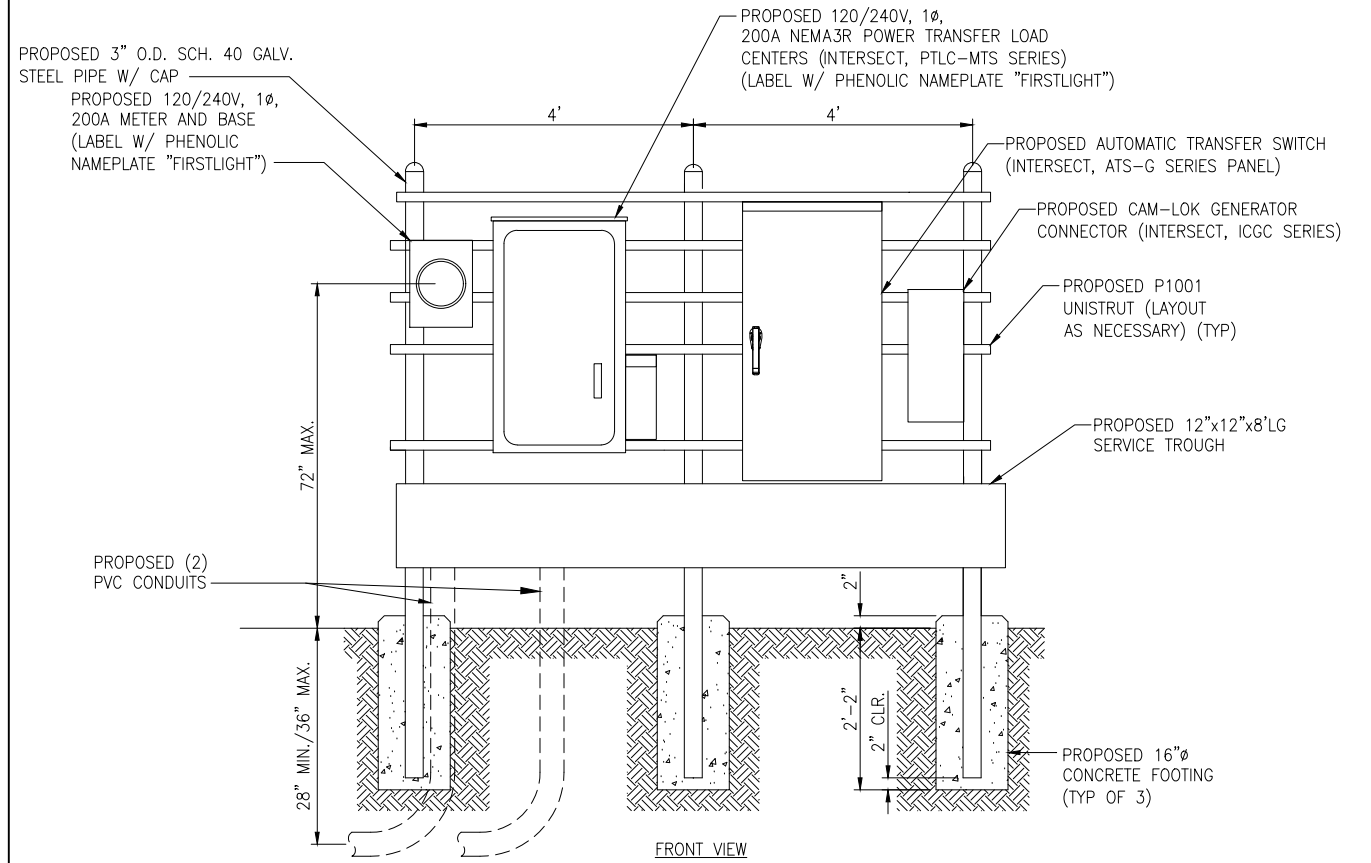
NY-003 DRYDEN
 1622 DRYDEN ROAD
 FREEVILLE, NY 13053
**EQUIPMENT
 DETAILS**
D2

NOTES:

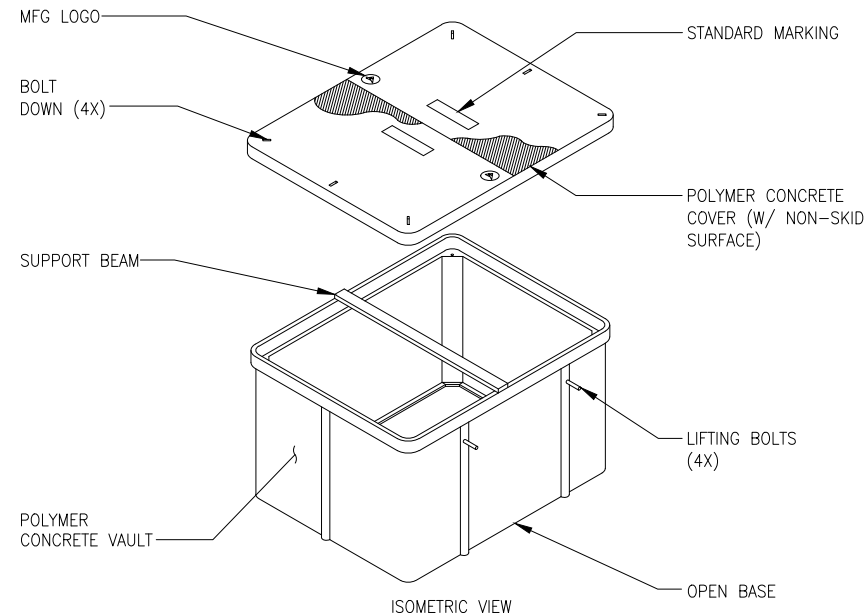
1. ALTERNATE FOOTINGS FOR ALL FENCE POSTS IN ROCK: IF ROCK IS ENCOUNTERED AT GRADE, OR AT A DEPTH SHALLOWER THAN 3'-6", CORE DRILL AN 8" DIA HOLE 18" INTO THE ROCK. CENTER POST IN THE HOLE AND FILL WITH CONCRETE OR GROUT. IF ROCK IS BELOW FINISH GRADE, COAT BACKFILLED SECTION OF POST WITH COAL TAR, AND BACKFILL WITH WELL-DRAINING GRAVEL.
2. ATTACH EACH GATE WITH 3 NON-LIFT-OFF TYPE, MALLEABLE IRON OR FORGING, PIN-TYPE HINGES. ASSEMBLIES SHALL ALLOW FOR 180° OF GATE TRAVEL. (THREE POINT HINGE)



1 CHAIN LINK FENCE DETAIL
D3 SCALE: NOT TO SCALE



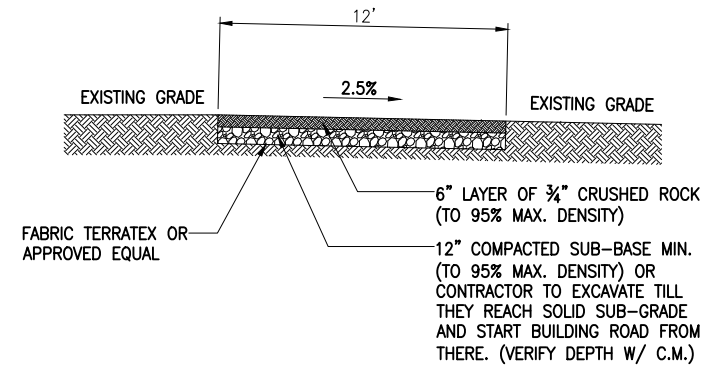
2 UTILITY BACKBOARD DETAIL
D3 SCALE: NOT TO SCALE



NOTE: GC TO PROVIDE TIER22 HANDHOLES IN QUANTITY SHOWN ON PLANS OR AS NECESSARY IN FIELD MANUFACTURED BY ARMORCAST OR EQUIVALENT W/ APPROPRIATE IDENTIFICATION FOR USE (E.G. FIBER OPTICS, HIGH VOLTAGE, ETC.)

NOMINAL DIMENSIONS WIDTH x LENGTH x DEPTH	ARMORCAST ASSEMBLY NO	ASSEMBLY WEIGHT	LOAD RATING / ANSI TIER
17" x 30" x 24"	A6001640HDAPCX24	190 LBS	20,000 LBS / TIER 22
24" x 36" x 24"	A6001974HDAPCX24	339 LBS	20,000 LBS / TIER 22
30" x 48" x 24"	A6001430HDAPCX30	506 LBS	20,000 LBS / TIER 22

3 HANDHOLE DETAIL
D3 SCALE: NOT TO SCALE



4 ACCESS ROAD DETAIL
D3 SCALE: NOT TO SCALE



INFINIGY8
ENGINEERING, PLLC
1033 WATERVLIET SHAKER RD
ALBANY, NY 12205

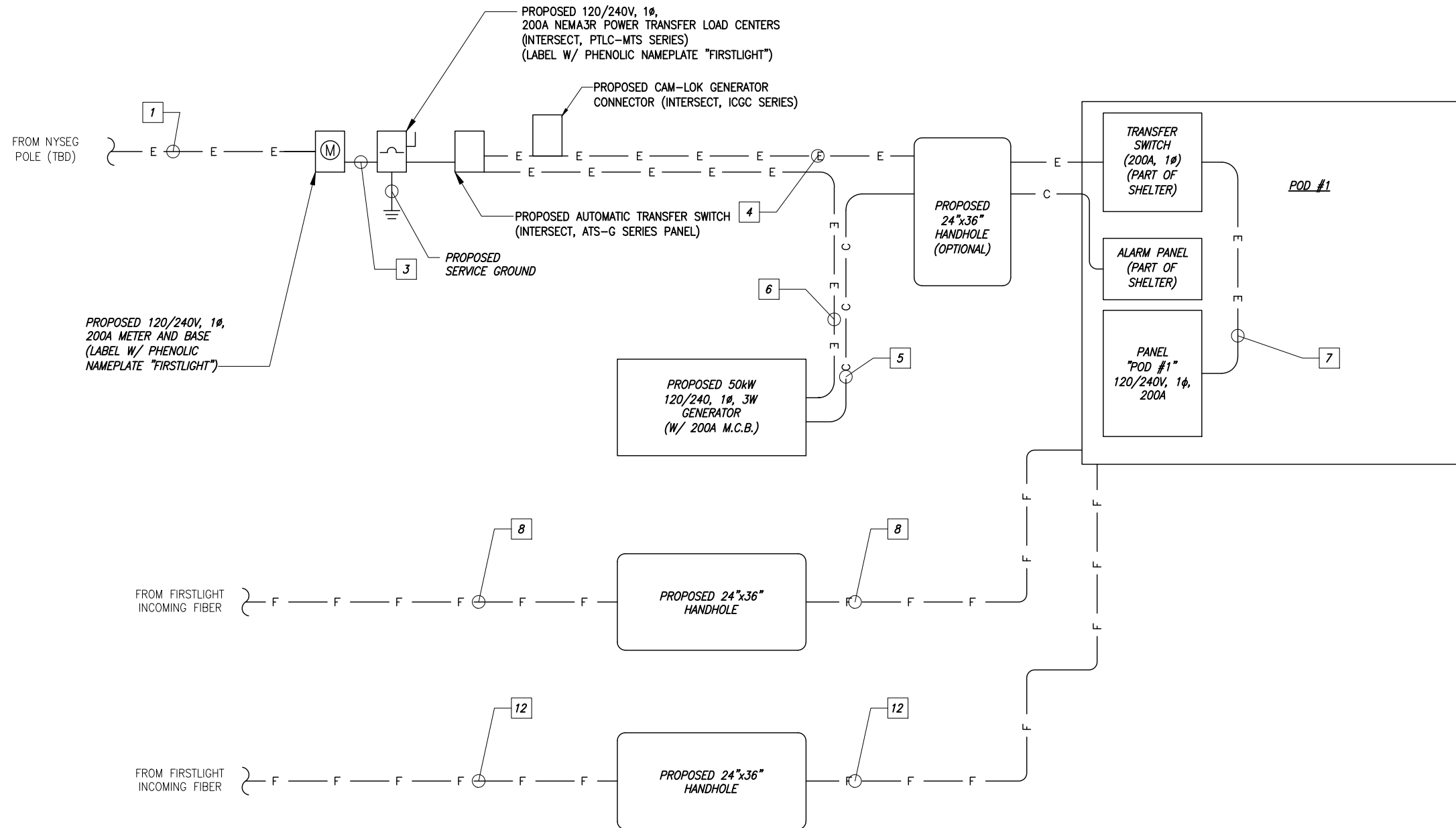
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS			
0	ISSUED FOR CONSTRUCTION	JLM	03/19/2020
No.	Submittal / Revision	App'd	DATE
	Drawn: MAP	Checked: JLM	
Job #:	1086-20001-C		



NY-003 DRYDEN
1622 DRYDEN ROAD
FREEVILLE, NY 13053

**EQUIPMENT
DETAILS**

D3



CONDUIT SCHEDULE	
KEY	DESCRIPTION
1	(2) 4" CONDUITS W/ MULE TAPE (FROM POLE TO METER)
2	NOT USED
3	3#3/0+1#4G IN 4" CONDUIT (FROM METER TO DISCONNECT)
4	3#3/0+1#6G IN 4" CONDUIT (FROM DISCONNECT TO ATS IN POD #1)
5	4" CONDUIT W/ PULLSTRING (FROM GENERATOR TO ATS, FOR COMMS & ALARMS)
6	3#3/0+1#4G IN 4" CONDUIT (FROM GENERATOR TO ATS)
7	3#3/0+1#6G IN 4" CONDUIT (FROM ATS TO PANEL)
8	4" CONDUIT W/ 1250# MULE TAPE (FROM INCOMING FIBER TO POD #1) (NOTE 4)

NOTES:

- HAND DIG ONLY WITHIN COMPOUND.
- INSULATION SHALL BE XHHW-2 UNLESS FIELD CONDITIONS DICTATE OTHERWISE. ADJUST CONDUCTOR AND GEC SIZING PER NEC WHEN ALTERATION IS REQUIRED.
- CONDUIT TYPES SHALL BE AS FOLLOWS:
 - BELOW GRADE CONDUITS: SCH. 40 PVC CONDUIT, SCH. 80 BENEATH ROAD/PARKING LOT.
 - EXTERIOR ABOVE GRADE CONDUITS: RGS
 - INTERIOR CONDUITS: IMC
- CONDUIT TO BE BURIED BELOW ALL OTHER CONDUITS FROM HANDHOLE TO POD #1

1 ONE LINE DIAGRAM
E1 SCALE: NOT TO SCALE

FirstLight

NTPWIRELESS
EVERY SITE, EVERY DAY

INFINIGY8
ENGINEERING, PLLC
1033 WATERVLIET SHAKER RD
ALBANY, NY 12205

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS.

ISSUED FOR CONSTRUCTION	JLM	03/19/2020
Submittal / Revision	App'd	
Drawn:	MAP	
Checked:	JLM	
Job #:	1086-20001-C	

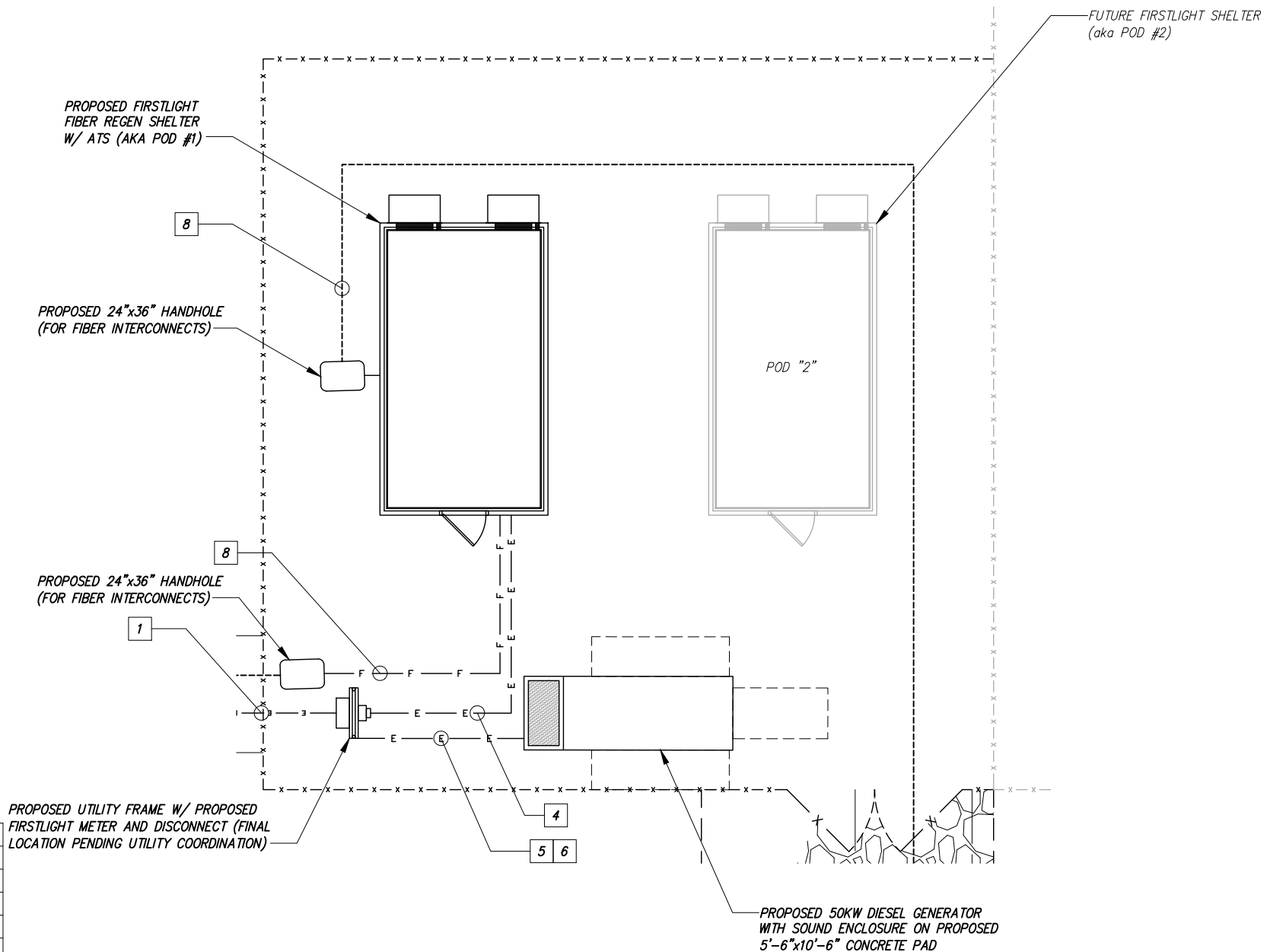
STATE OF NEW YORK
THOMAS S. STEPIEN
LICENSED PROFESSIONAL ENGINEER
071096

1622 DRYDEN ROAD
FREEVILLE, NY 13053

NY-003 DRYDEN

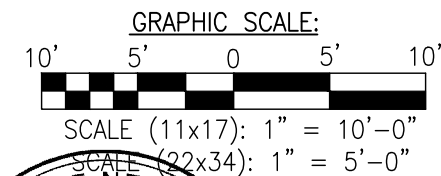
ELECTRIC DETAILS

E1



CONDUIT SCHEDULE	
KEY	DESCRIPTION
1	(2) 3" CONDUITS W/ MULE TAPE (FROM POLE TO C/T CABINET)
2	4" CONDUIT W/ MULE TAPE (FROM C/T CABINET TO METER)
3	3#3/0+1#4G IN 4" CONDUIT (FROM METER TO DISCONNECT)
4	3#3/0+1#6G IN 4" CONDUIT (FROM DISCONNECT TO ATS IN POD #1)
5	4" CONDUIT W/ PULLSTRING (FROM GENERATOR TO ATS, FOR COMMS & ALARMS)
6	3#3/0+1#4G IN 4" CONDUIT (FROM GENERATOR TO ATS)
7	3#3/0+1#6G IN 4" CONDUIT (FROM ATS TO PANEL)
8	4" CONDUIT W/ 1250# MULE TAPE (FROM INCOMING FIBER TO POD #1) (NOTE 4)

- NOTES:
- HAND DIG ONLY WITHIN COMPOUND.
 - INSULATION SHALL BE XHHW-2 UNLESS FIELD CONDITIONS DICTATE OTHERWISE. ADJUST CONDUCTOR AND GEC SIZING PER NEC WHEN ALTERATION IS REQUIRED.
 - CONDUIT TYPES SHALL BE AS FOLLOWS:
 - BELOW GRADE CONDUITS: SCH. 40 PVC CONDUIT, SCH. 80 BENEATH ROAD/PARKING LOT.
 - EXTERIOR ABOVE GRADE CONDUITS: RGS
 - INTERIOR CONDUITS: IMC
 - CONDUIT TO BE BURIED BELOW ALL OTHER CONDUITS FROM HANDHOLE TO POD #1



1033 WATERVLIET SHAKER RD
ALBANY, NY 12205

UNAUTHORIZED ALTERATION OR REVISION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS.

ISSUED FOR CONSTRUCTION	JUL 03/2020
No. Submittal / Revision	Appr. Eng.
Drawn: MAP	Checked: JLM
Job #:	1086-20001-C

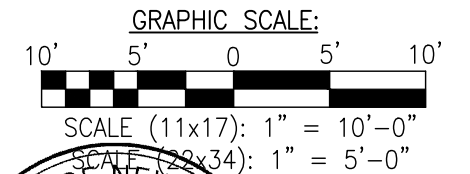
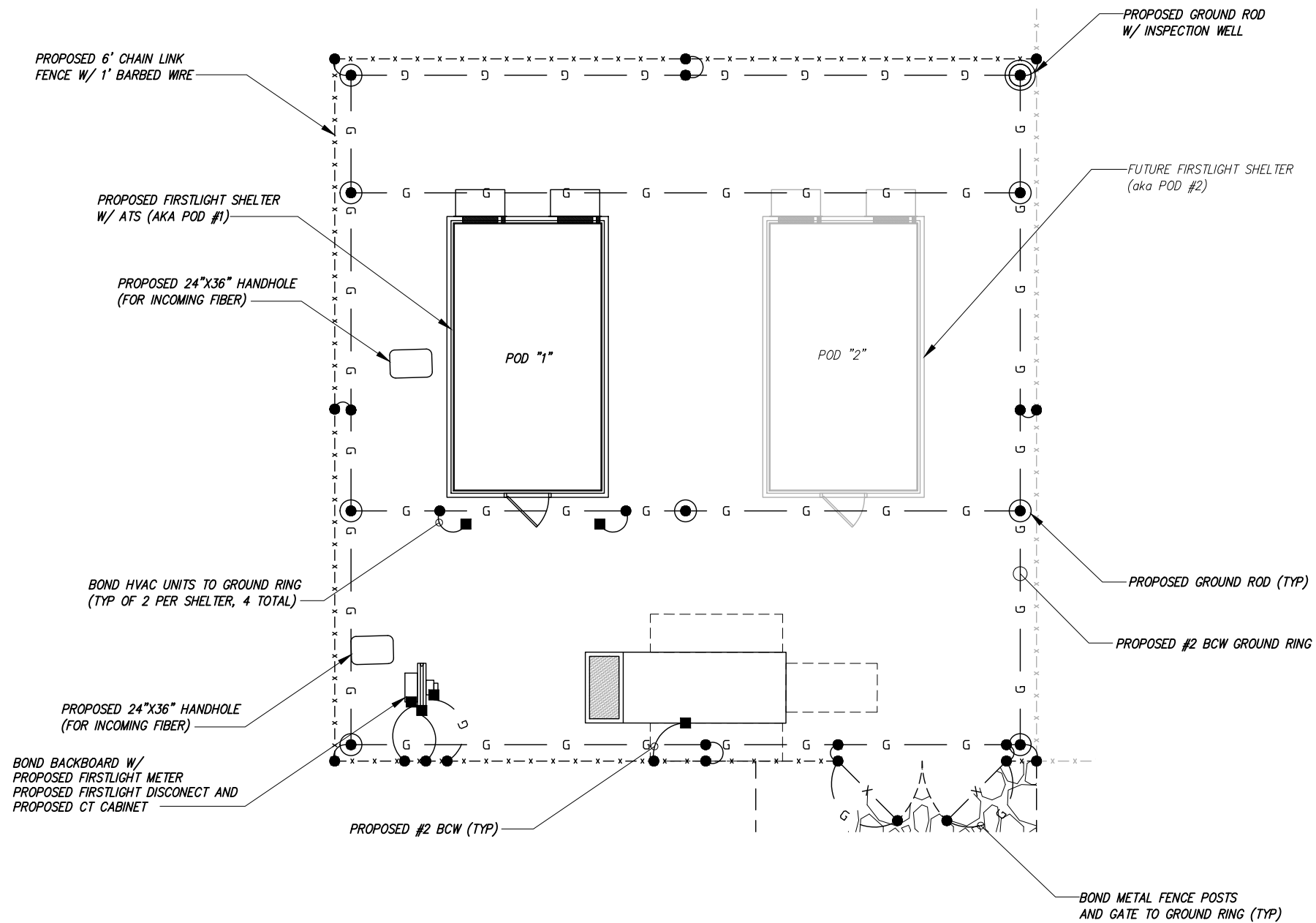
STATE OF NEW YORK

NY-003 DRYDEN

1622 DRYDEN ROAD
FREEVILLE, NY 13053

ELECTRIC DETAILS

E2



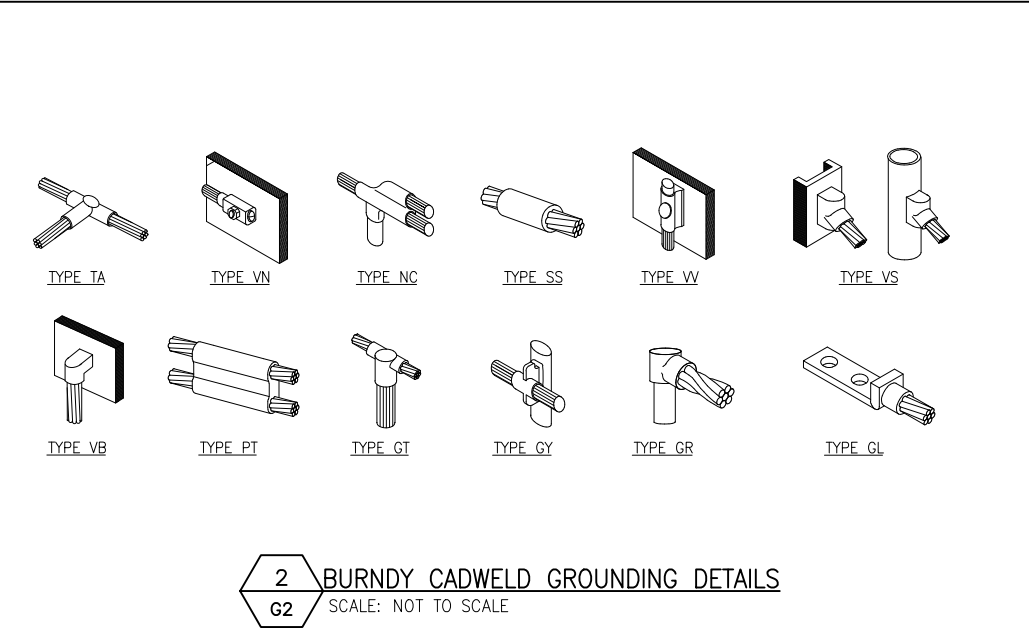
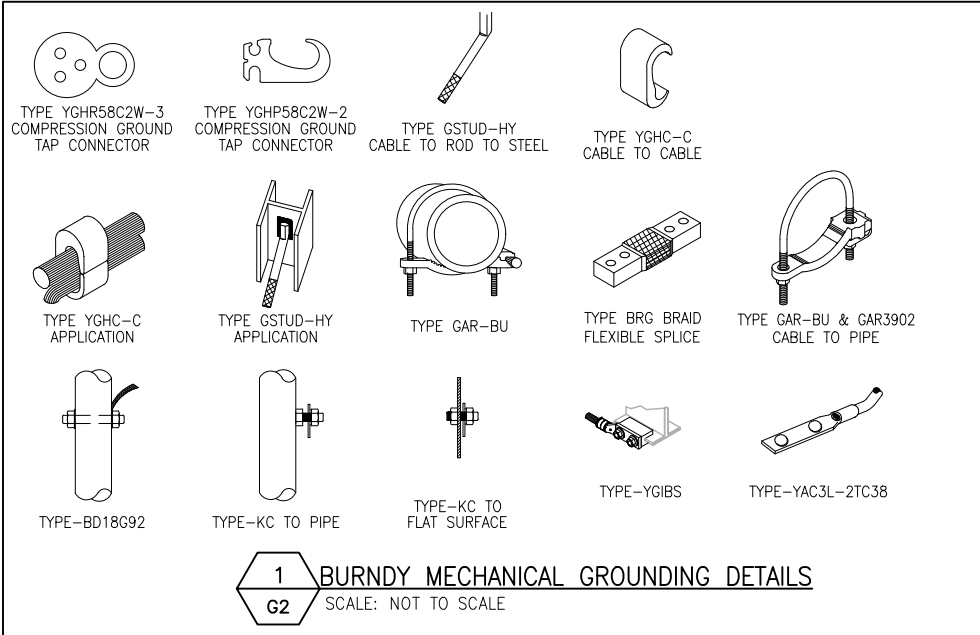
NOTES:

1. PROVIDE #2AWG GROUNDING CONDUCTOR, U.O.N.
2. PROVIDE BONDING AND GROUNDING CONDUCTORS WITH GREEN TYPE THWN INSULATION, U.O.N.
3. BUSSBARS ARE TO BE TINNED COPPER BARS (1/4"x2"x12") MOUNTED ON INSULATORS, U.O.N.
4. GROUND RODS SHALL BE 5/8"Øx8' LG COPPER CLAD STEEL ROD DRIVEN VERTICALLY. SPACING TO BE MIN. 6' SEPARATION WITH 16' SEPARATION PREFERRED WHERE POSSIBLE.
5. PROTECT ALL EXPOSED GROUNDING CONDUCTORS WITH PVC SCH. 80 CONDUIT OR SCH. 40 RMC, EMT IF EXPOSED TO PHYSICAL DAMAGE.

KEY

- GROUND TEST PIT
- GROUND ROD
- MECHANICAL GROUNDING CONNECTION
- CADWELD

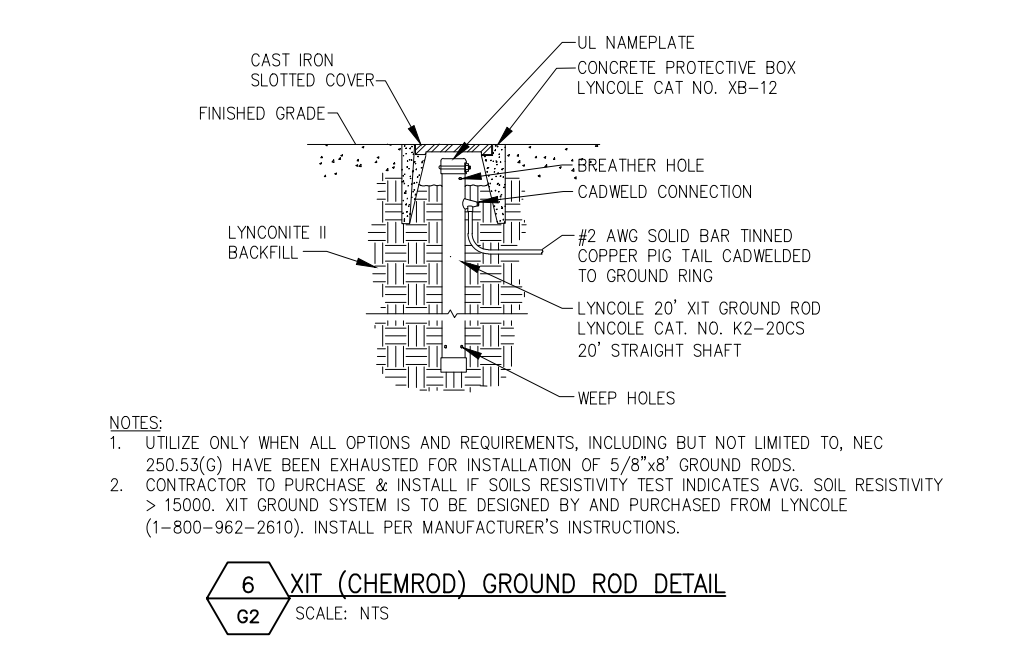
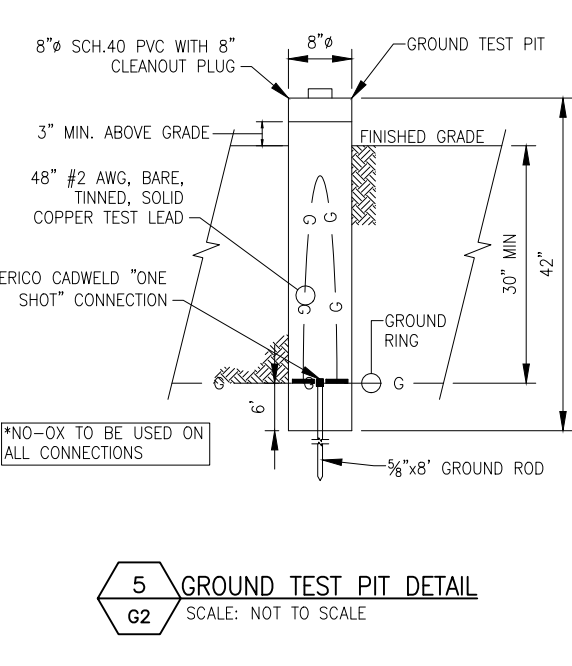
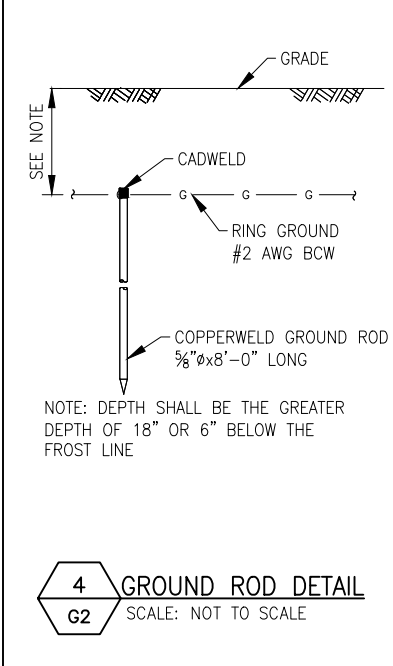
			NY-003 DRYDEN 1622 DRYDEN ROAD FREEVILLE, NY 13053 GROUNDING PLAN G1
INFINIGY8 ENGINEERING, PLLC 1033 WATERVLIET SHAKER RD ALBANY, NY 12205		UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS. ISSUED FOR CONSTRUCTION JLM 03/19/20 No. Submittal / Revision App'd Date Drawn: MAP Checked: JLM Job #: 1086-20001-C	



3 GROUNDING TERMINATION MATRIX
SCALE: NOT TO SCALE

TERMINATION TYPES:
 A. MECHANICAL COMPRESSION LUG
 B. DOUBLE BARRELL COMPRESSION CONNECTOR
 C. EXOTHERMIC TERMINATION
 D. BEAM CLAMP

	SOLID #2 TINNED COPPER	#6 GROUND LEAD	#2/0 STRANDED MAIN DOWN CONDUCTOR	MASTER GRND BAR	STRUCTURAL OR TOWER STEEL	BLDG SERVICE ENTR OR GRND BNG	GROUND ROD
SOLID #2 TINNED COPPER	B OR C	B OR C		C	A, C, OR D		C
#6 GROUND LEAD	B OR C			A	A, C, OR D		
#2/0 STRANDED GRNDG ELECTRODE CONDUCTOR				A	A, C, OR D	A	
MASTER GROUND BAR	C	A	A				
STRUCTURAL STEEL	A, C, OR D	A, C, OR D	A, C, OR D				
GROUND RING	C		C				C



FirstLight
NTPWIRELESS®
EVERY SITE, EVERY DAY

INFINIGY8 ENGINEERING, PLLC
1033 WATERVLIET SHAKER RD
ALBANY, NY 12205

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS

ISSUED FOR CONSTRUCTION JLM 03/19/2020

Drawn: MAP
Checked: JLM
Job #: 1086-20001-C

STATE OF NEW YORK
JOHN S. STEINBOCK
REGISTERED PROFESSIONAL ENGINEER
071096

1622 DRYDEN ROAD
FREEVILLE, NY 13053
NY-003 DRYDEN

GROUNDING PLAN
G2