

DWG NO.	DRAWING TITLE	DATE	REV.	DATE	REV.
MPS-E-600-00	COVER SHEET	09/01/23	B	01/15/24	C
MPS-E-601-01	MV SINGLE LINE DIAGRAM	09/01/23	B	01/15/24	C
MPS-E-601-02	MV SINGLE LINE WIRE SCHEDULES	09/01/23	B	01/15/24	C
MPS-E-602-01	TRENCH, BORE AND SECTIONALIZER DETAILS	09/01/23	B	01/15/24	C
MPS-E-602-02	DIRECTIONAL BORE DETAILS	09/01/23	B	01/15/24	C
MPS-E-603-01	DIRECTIONAL BORE CREEK CROSSINGS PLAN & PROFILES	09/01/23	B	01/15/24	C

# MILL POINT SOLAR I PROJECT

**PREPARED FOR: CONNECTGEN MONTGOMERY COUNTY LLC**  
**PREPARED BY: TRC ENGINEERS, INC.**  
**ISSUE DATE: 01/15/2024**  
**ISSUE STATUS: ISSUED FOR 94-C**

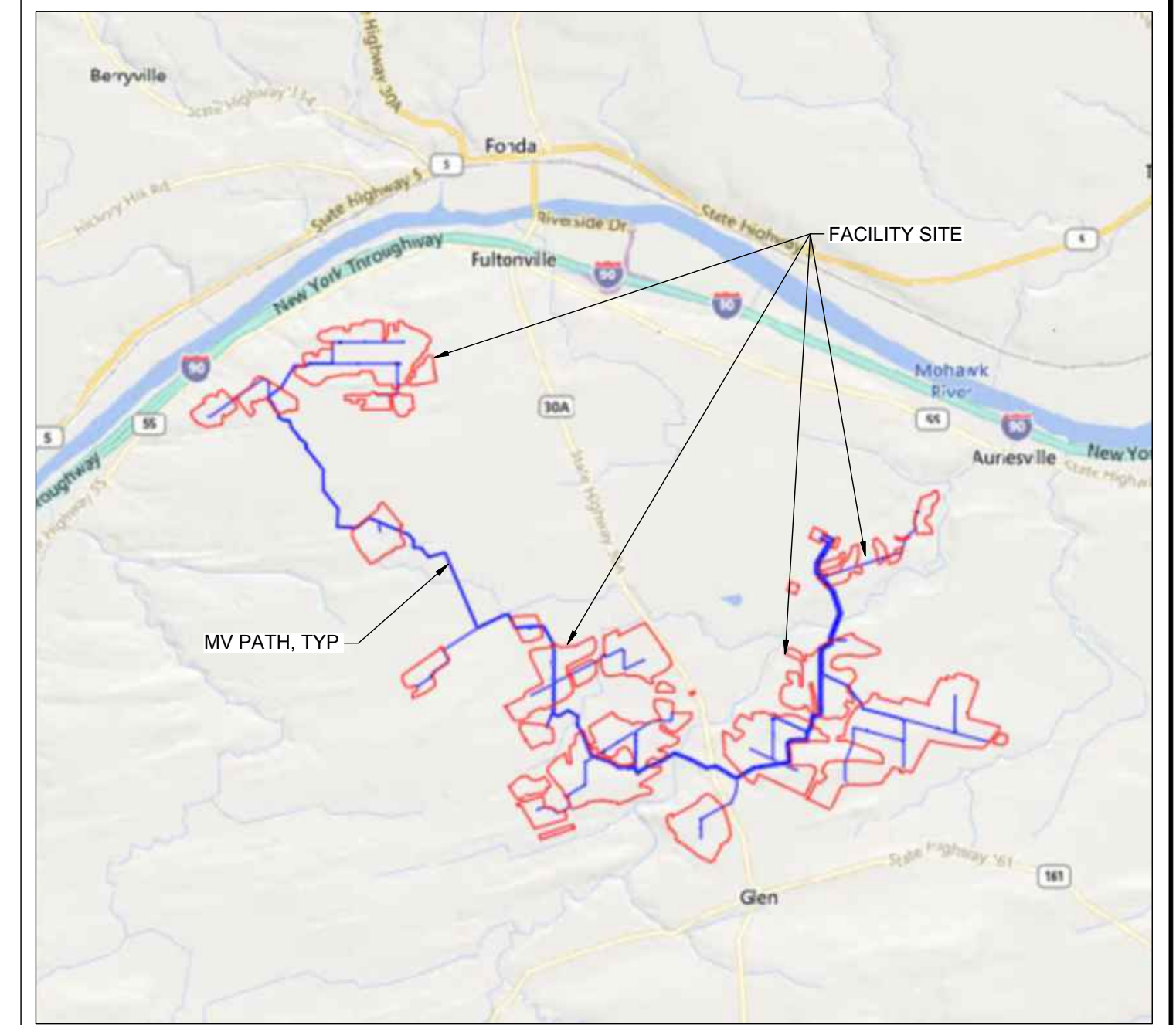
**PROJECT DATA**

**LOCATION:** MONTGOMERY COUNTY, NY  
**PROJECTION:** STATE PLANE NAD 83 (NY82-EF)  
**POWER GENERATED:** 250 MWac

THESE DESIGN DRAWINGS HAVE BEEN CREATED AT THE DIRECTION OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.  
**ENGINEER OF RECORD:**  
**JAYME GARCIA, LICENSE #090650**  
**TRC ENGINEERS, INC., CERTIFICATE OF AUTHORIZATION NO. 001817,**  
**1407 BROADWAY, SUITE 3301,**  
**NEW YORK, NY 10018.**

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

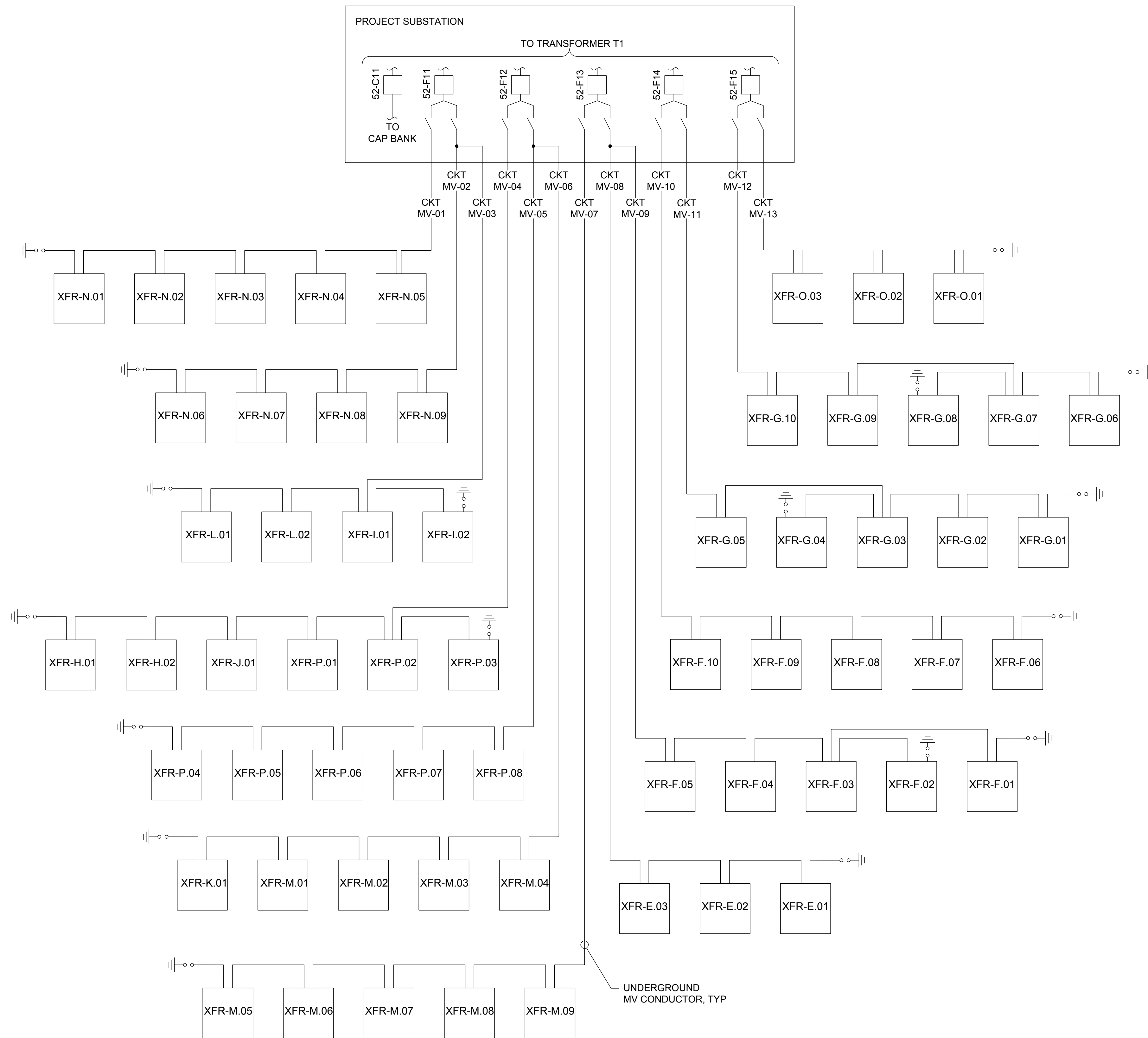
**SITE MAP**



THE STATE OF NEW YORK

**PRELIMINARY**  
 NOT FOR CONSTRUCTION

670 NORTH COMMERCIAL STREET SUITE 203 MANCHESTER, NH 03101		PROJECT NO: 443269				JAK DESIGNED JAK DRAWN JTG CHECKED DVL APPROVED		MILL POINT SOLAR I PROJECT CONNECTGEN MONTGOMERY COUNTY LLC COVER SHEET		GLEN NEW YORK	
REFERENCE ITEMS	REV	DESCRIPTION	DATE	DES	CHK	APP	REVIEW 1	01/15/24		MPS-E-600-00	REV.
	C	ISSUED FOR 94-C	01/15/24	JAK	JTG	DVL	DATE	C			
	B	ISSUED FOR REVIEW	09/01/23	JAK	JTG	DVL	AS NOTED				
	A	ISSUED FOR REVIEW	08/11/23	JAK	JTG	DVL	REVIEW 2	SCALE			



	Module QTY	MW DC Output	String QTY	Calculated Skid QTY	Proposed Skid Quantity	DC:AC Ratio @ Inverter	MW AC Output	Notes
<b>Phase 1</b>								
E	31,330	16.92	1205	3.35	3	1.28	13.20	4.4 MW Inverter Skid
F	86,112	46.50	3312	9.20	10	1.06	44.00	4.4 MW Inverter Skid
G	91,884	49.62	3534	9.82	10	1.13	44.00	4.4 MW Inverter Skid
H	10,894	5.88	419	1.62	2	0.93	6.30	3.15 MW Inverter Skid
I	15,626	8.44	601	1.67	2	0.96	8.80	4.4 MW Inverter Skid
J	6,708	3.62	258	1.00	1	1.15	3.15	3.15 MW Inverter Skid
K	8,710	4.70	335	0.93	1	1.07	4.40	4.4 MW Inverter Skid
L	19,396	10.47	746	2.07	2	1.19	8.80	4.4 MW Inverter Skid
M	78,468	42.37	3018	8.38	9	1.07	39.60	4.4 MW Inverter Skid
N	85,904	46.39	3304	9.18	9	1.17	39.60	4.4 MW Inverter Skid
O	17,082	9.22	657	2.55	3	0.98	9.45	3.15 MW Inverter Skid
P	77,688	41.95	2988	8.30	8	1.19	35.20	4.4 MW Inverter Skid
<b>Totals</b>	<b>529,802</b>	<b>286.09</b>	<b>20,377</b>	<b>58</b>	<b>60</b>	<b>1.12</b>	<b>256.50</b>	

UNDERGROUND MV CONDUCTOR, TYP

**PRELIMINARY**  
NOT FOR CONSTRUCTION

**TRC** 670 NORTH COMMERCIAL STREET SUITE 203  
MANCHESTER, NH 03101

PROJECT NO: 443269

REV	DESCRIPTION	DATE	DES	CHK	APP
C	ISSUED FOR 94-C	01/15/24	JAK	JTG	DVL
B	ISSUED FOR REVIEW	09/01/23	JAK	JTG	DVL
A	ISSUED FOR REVIEW	08/11/23	JAK	JTG	DVL



JAK DESIGNED  
JAK DRAWN  
JTG CHECKED  
DVL APPROVED

MILL POINT SOLAR I PROJECT  
CONNECTGEN MONTGOMERY COUNTY LLC  
MV SINGLE LINE DIAGRAM

GLEN NEW YORK



MPS-E-601-01

REV. C

DATE: 01-12-2024  
LIC. EXP.: 09-30-2026

REVIEW 1  
REVIEW 2

01/15/24  
DATE  
AS NOTED  
SCALE



MV AC CABLE SCHEDULE									
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (KW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	MIN CONDUIT SIZE	TOTAL CIRCUIT LENGTH	IEEE VD .95 PF (%)
MV-01	SUBSTATION TO INV-N.05	368.17	22000	1250 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	35602	2.09%
	INV-N.05 TO INV-N.04	294.53	17600	1250 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	1614	0.08%
	INV-N.04 TO INV-N.03	220.90	13200	1250 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	1060	0.04%
	INV-N.03 TO INV-N.02	147.27	8800	1250 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	824	0.02%
	INV-N.02 TO INV-N.01	73.63	4400	1250 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	711	0.01%
TOTAL VD:									2.21%

MV AC CABLE SCHEDULE									
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (KW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	MIN CONDUIT SIZE	TOTAL CIRCUIT LENGTH	IEEE VD .95 PF (%)
MV-02	SUBSTATION TO INV-N.09	294.53	17600	1250 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	34255	1.61%
	INV-N.09 TO INV-N.08	220.90	13200	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	1814	0.07%
	INV-N.08 TO INV-N.07	147.27	8800	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	1074	0.03%
	INV-N.07 TO INV-N.06	73.63	4400	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	1473	0.02%
	TOTAL VD:								

MV AC CABLE SCHEDULE									
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (KW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	MIN CONDUIT SIZE	TOTAL CIRCUIT LENGTH	IEEE VD .95 PF (%)
MV-03	SUBSTATION TO INV-L.01	294.53	17600	1250 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	26916	0.32%
	INV-L.01 TO INV-L.02	73.63	4400	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	634	0.01%
	INV-L.01 TO INV-L.02	147.27	8800	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	6480	0.18%
	INV-L.02 TO INV-L.01	73.63	4400	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	2545	0.03%
	TOTAL VD:								

MV AC CABLE SCHEDULE									
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (KW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	MIN CONDUIT SIZE	TOTAL CIRCUIT LENGTH	IEEE VD .95 PF (%)
MV-04	SUBSTATION TO INV-P.02	379.04	22650	1250 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	18008	1.09%
	INV-P.02 TO INV-P.03	73.63	4400	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	1144	0.02%
	INV-P.02 TO INV-P.01	231.78	13850	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	843	0.04%
	INV-P.01 TO INV-J.01	158.14	9450	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	1868	0.05%
	INV-J.01 TO INV-H.02	105.43	6300	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	4485	0.09%
	INV-H.02 TO INV-H.01	52.71	3150	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	834	0.01%
TOTAL VD:									1.29%

MV AC CABLE SCHEDULE									
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (KW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	MIN CONDUIT SIZE	TOTAL CIRCUIT LENGTH	IEEE VD .95 PF (%)
MV-05	SUBSTATION TO INV-P.08	368.17	22000	1250 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	17575	1.03%
	INV-P.08 TO INV-P.07	294.53	17600	1250 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	3296	0.16%
	INV-P.07 TO INV-P.06	220.90	13200	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	493	0.02%
	INV-P.06 TO INV-P.05	147.27	8800	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	849	0.02%
	INV-P.05 TO INV-P.04	73.63	4400	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	1554	0.02%
TOTAL VD:									1.25%

MV AC CABLE SCHEDULE									
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (KW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	MIN CONDUIT SIZE	TOTAL CIRCUIT LENGTH	IEEE VD .95 PF (%)
MV-06	SUBSTATION TO INV-M.04	368.17	22000	1250 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	15304	0.90%
	INV-M.04 TO INV-M.03	294.53	17600	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	793	0.04%
	INV-M.03 TO INV-M.02	220.90	13200	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	983	0.04%
	INV-M.02 TO INV-M.01	147.27	8800	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	1028	0.03%
	INV-M.01 TO INV-K.01	73.63	4400	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	2361	0.03%
TOTAL VD:									1.04%

MV AC CABLE SCHEDULE									
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (KW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	MIN CONDUIT SIZE	TOTAL CIRCUIT LENGTH	IEEE VD .95 PF (%)
MV-07	SUBSTATION TO INV-M.09	368.17	22000	1250 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	13567	0.80%
	INV-M.09 TO INV-M.08	294.53	17600	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	895	0.05%
	INV-M.08 TO INV-M.07	220.90	13200	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	910	0.04%
	INV-M.07 TO INV-M.06	147.27	8800	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	1213	0.03%
	INV-M.06 TO INV-M.05	73.63	4400	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	842	0.01%
TOTAL VD:									0.93%

MV AC CABLE SCHEDULE									
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (KW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	MIN CONDUIT SIZE	TOTAL CIRCUIT LENGTH	IEEE VD .95 PF (%)
MV-08	SUBSTATION TO INV-E.03	220.90	13200	1250 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	12170	0.43%
	INV-E.03 TO INV-E.02	147.27	8800	750 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	6.00"	643	0.02%
	INV-E.02 TO INV-E.01	73.63	4400	750 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	6.00"	613	0.01%
TOTAL VD:									0.46%

MV AC CABLE SCHEDULE									
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (KW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	MIN CONDUIT SIZE	TOTAL CIRCUIT LENGTH	IEEE VD .95 PF (%)
MV-09	SUBSTATION TO INV-F.05	368.17	22000	1250 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	8494	0.50%
	INV-F.05 TO INV-F.04	294.53	17600	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	780	0.04%
	INV-F.04 TO INV-F.03	220.90	13200	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	935	0.04%
	INV-F.03 TO INV-F.02	73.63	4400	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	1109	0.02%
	INV-F.02 TO INV-F.01	73.63	4400	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	1864	0.03%
TOTAL VD:									0.62%

MV AC CABLE SCHEDULE									
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (KW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	MIN CONDUIT SIZE	TOTAL CIRCUIT LENGTH	IEEE VD .95 PF (%)
MV-10	SUBSTATION TO INV-F.10	368.17	22000	1250 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	4533	0.27%
	INV-F.10 TO INV-F.09	294.53	17600	750 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	1268	0.09%
	INV-F.09 TO INV-F.08	220.90	13200	750 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	6.00"	1038	0.05%
	INV-F.08 TO INV-F.07	147.27	8800	750 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	6.00"	951	0.03%
	INV-F.07 TO INV-F.06	73.63	4400	750 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	6.00"	2717	0.05%
TOTAL VD:									0.48%

MV AC CABLE SCHEDULE									
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (KW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	MIN CONDUIT SIZE	TOTAL CIRCUIT LENGTH	IEEE VD .95 PF (%)
MV-11	SUBSTATION TO INV-G.05	368.17	22000	1250 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	7665	0.45%
	INV-G.05 TO INV-G.04	294.53	17600	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	1517	0.08%
	INV-G.04 TO INV-G.03	220.90	13200	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	1062	0.04%
	INV-G.03 TO INV-G.02	147.27	8800	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	1540	0.04%
	INV-G.02 TO INV-G.01	73.63	4400	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	2280	0.03%
TOTAL VD:									0.65%

MV AC CABLE SCHEDULE									
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (KW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	MIN CONDUIT SIZE	TOTAL CIRCUIT LENGTH	IEEE VD .95 PF (%)
MV-12	SUBSTATION TO INV-G.10	368.17	22000	1250 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	8273	0.49%
	INV-G.10 TO INV-G.09	294.53	17600	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	1343	0.07%
	INV-G.09 TO INV-G.07	220.90	13200	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	899	0.04%
	INV-G.07 TO INV-G.08	73.63	4400	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	1323	0.02%
	INV-G.07 TO INV-G.06	73.63	4400	1000 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	1534	0.02%
TOTAL VD:									0.64%


MV AC CABLE SCHEDULE									
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (KW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	MIN CONDUIT SIZE	TOTAL CIRCUIT LENGTH	IEEE VD .95 PF (%)
MV-13	SUBSTATION TO INV-O.03	158.14	9450	1250 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	8.00"	2099	0.05%
	INV-O.03 TO INV-O.02	105.43	6300	750 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	6.00"	2110	0.05%
	INV-O.02 TO INV-O.01	52.71	3150	750 KCMIL	35KV TR-XLPE 100% MV-105, AL, 1/3N	DIRECT BURIED	6.00"	2350	0.03%
TOTAL VD:									0.13%

AVERAGE OF TOTAL VD OF EACH CIRCUIT	0.92%
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NOTES:

1. SIZE OF CABLE MAY INCREASE AT CREEK CROSSING, DEPENDING ON DEPTH OF BORE. IF LARGER CABLE SIZE IS NOT AVAILABLE, TWO (2) PARALLEL SETS OF CABLE CAN BE USED PER CIRCUIT, AS NEEDED.
2. ONE SET OF CABLES IS USED FOR EACH CIRCUIT, UNLESS NOTED OTHERWISE.

PRELIMINARY  
NOT FOR CONSTRUCTION

 670 NORTH COMMERCIAL STREET SUITE 203  
MANCHESTER, NH 03101

PROJECT NO: 443269

REV	DESCRIPTION	DATE	DES	CHK	APP
	REFERENCE ITEMS				
C	ISSUED FOR 94-C	01/15/24	JAK	JTG	DVL
B	ISSUED FOR REVIEW	09/01/23	JAK	JTG	DVL
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JAK DESIGNED  
JAK DRAWN  
JTG CHECKED  
DVL APPROVED

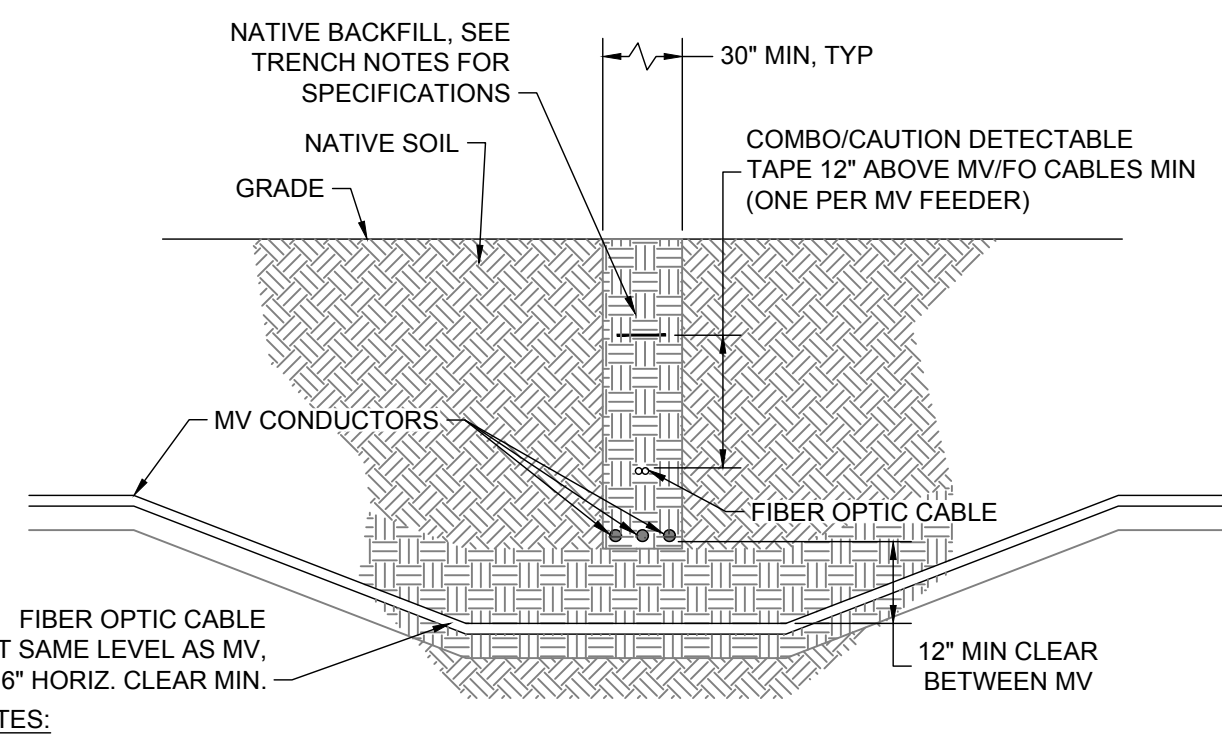
MILL POINT SOLAR I PROJECT  
CONNECTGEN MONTGOMERY COUNTY LLC  
MV SINGLE LINE WIRE SCHEDULES

GLEN NEW YORK

REVIEW 1: 01/15/24 DATE AS NOTED SCALE  
REVIEW 2

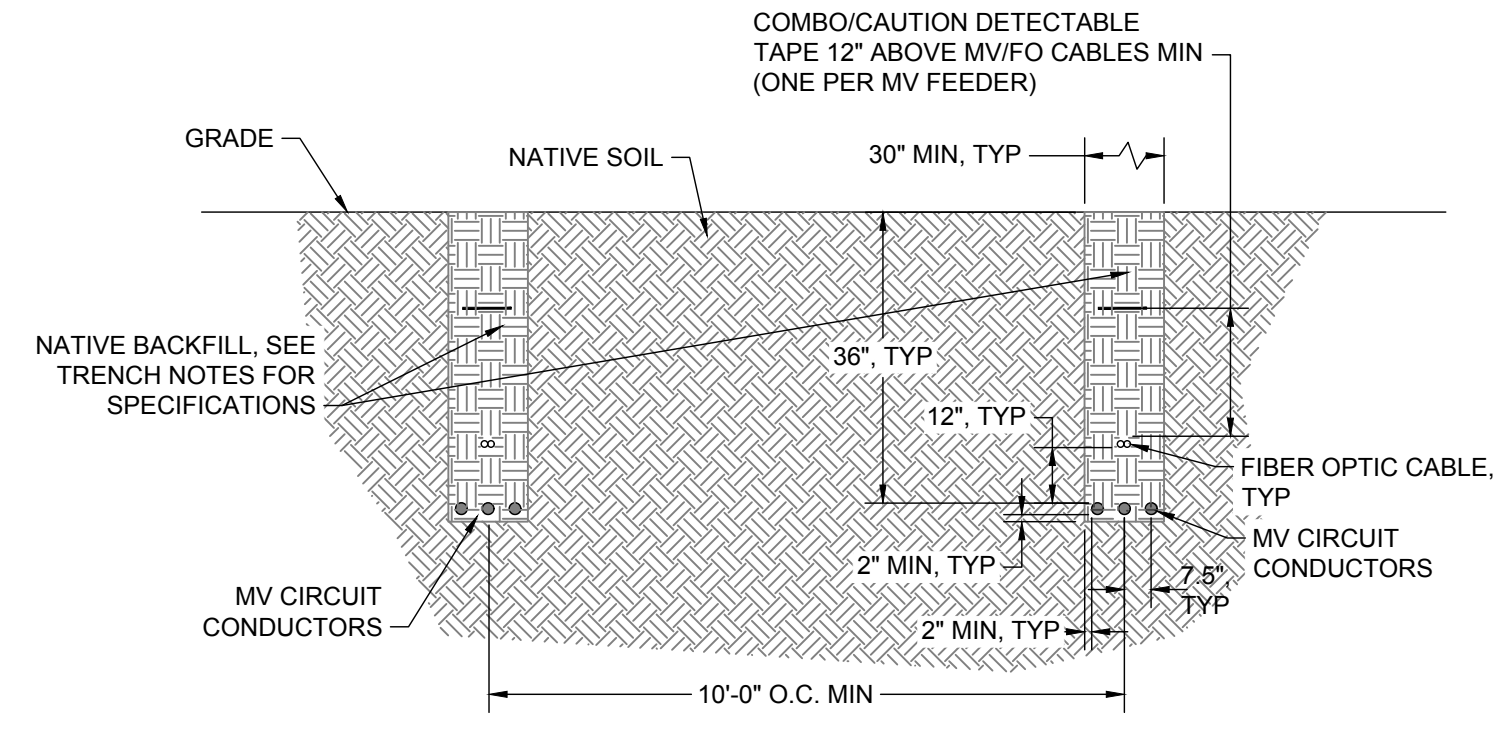
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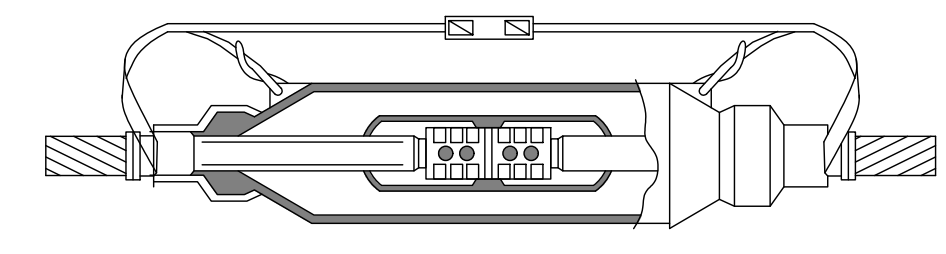


- NOTES:
1. MAINTAIN 12" MINIMUM BETWEEN CROSSING CIRCUITS.
  2. FIBER OPTIC CABLE MAY BE ABOVE OR AT SAME LEVEL AS MV CIRCUIT, MAINTAIN 6" MIN CLEAR SEPARATION BETWEEN MV AND FO.

**A** MV & MV PERPENDICULAR TRENCHES  
SCALE: NTS

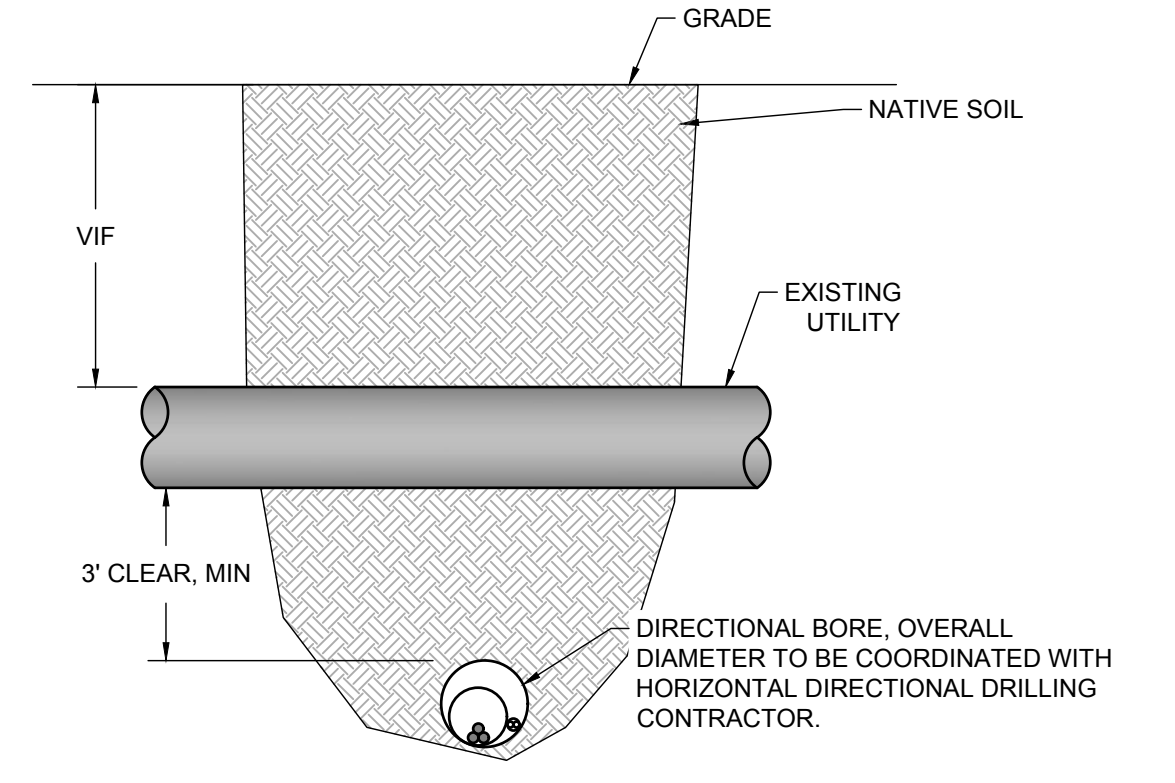


**B** TYPICAL DIRECT BURY MV SEPARATION DETAIL  
SCALE: NTS



- NOTES FOR SPLICE DETAIL:
1. SHEAR BOLT CONNECTORS SHALL BE USED TO CONNECT MV CABLES.
  2. UL LISTED COMPONENTS SHALL BE USED.
  3. DIRECT BURIED SPLICES SHALL BE APPROVED BY STAKEHOLDERS.

**C** MV CABLE SPLICE DETAIL  
SCALE: NTS

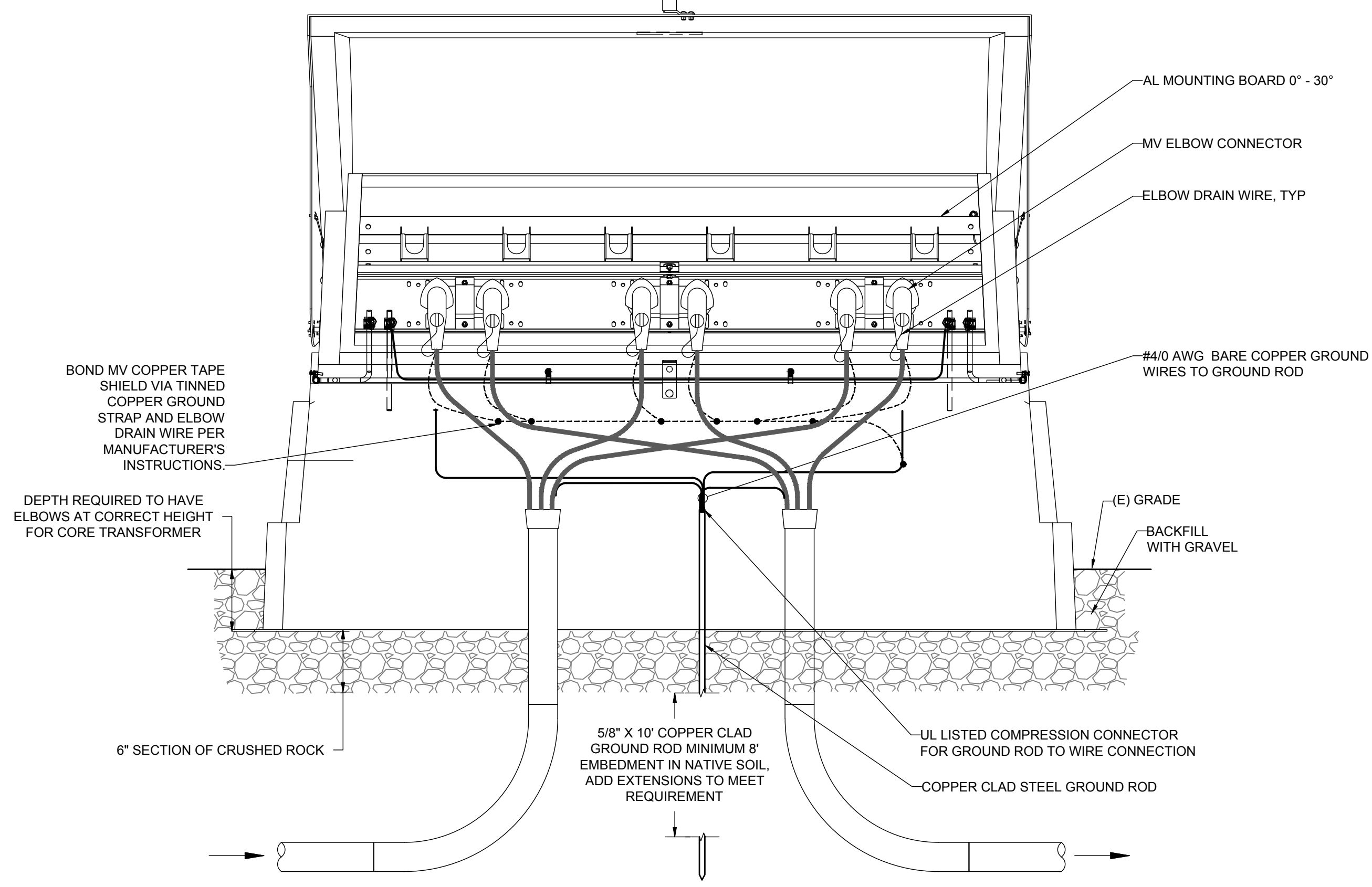


- NOTES:
1. UNDERGROUND CROSSINGS OF UTILITY EASEMENTS WILL COMPLY WITH MUTUALLY NEGOTIATED CROSSING AGREEMENTS WITH UTILITY OWNER.

**D** MV DIRECTIONAL BORE / UTILITY CROSSING  
SCALE: NTS

**TRENCH NOTES:**

1. WIDTH OF TRENCH VARIES BY LOCATION & TOTAL NUMBER OF CIRCUITS.
2. DO NOT INSTALL DC AND MV AC CIRCUITS IN THE SAME TRENCH. DO NOT STACK AC & DC CIRCUITS. WHERE CIRCUITS CROSS SEE PERPENDICULAR TRENCH.
3. ALL EXPOSED ABOVE GROUND CONDUIT SHALL BE SCH. 80 PVC, UV RESISTANT.
4. NATIVE MATERIAL SHALL BE USED AS TRENCH BACKFILL, UNLESS OTHERWISE NOTED.
5. BACKFILL SHALL BE FREE OF MATERIALS THAT CAN DAMAGE THE CONDUIT / CABLES AND SHALL MATCH EXISTING SOIL THERMAL RESISTIVITY VALUE. ROCKS AND SHARP OBJECTS 3/8" OR MORE SHALL BE REMOVED FROM THE BACKFILL MATERIAL WITHIN 8" OF ANY CONDUIT / CABLES.
6. THE NUMBER OF CABLES AND SEPARATION SHOWN IS REPRESENTATIVE AND WILL VARY PER THE SITE TRENCHING PLAN.



**E** SECTIONALIZER CABINET  
SCALE: NTS

**PRELIMINARY**  
NOT FOR CONSTRUCTION

**TRC** 670 NORTH COMMERCIAL STREET SUITE 203  
MANCHESTER, NH 03101

PROJECT NO: 443269

REV	DESCRIPTION	DATE	DES	CHK	APP
C	ISSUED FOR 94-C	01/15/24	JAK	JTG	DVL
B	ISSUED FOR REVIEW	09/01/23	JAK	JTG	DVL
A	ISSUED FOR REVIEW	08/11/23	JAK	JTG	DVL



JAK DESIGNED  
JAK DRAWN  
JTG CHECKED  
DVL APPROVED

MILL POINT SOLAR I PROJECT  
CONNECTGEN MONTGOMERY COUNTY LLC  
TRENCH, BORE AND SECTIONALIZER DETAILS

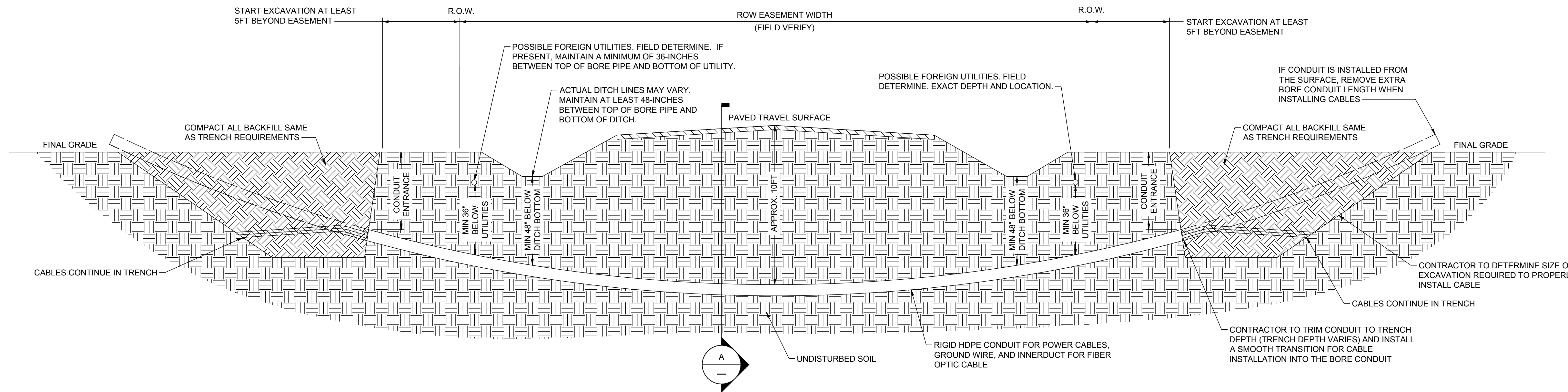
GLEN NEW YORK



MPS-E-602-01

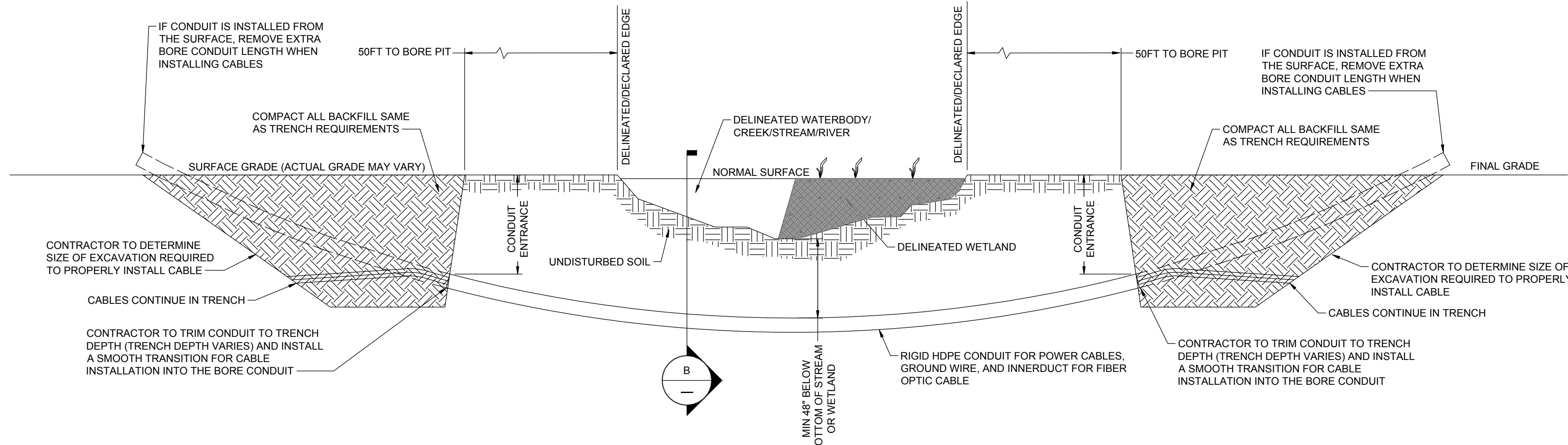
REV: C



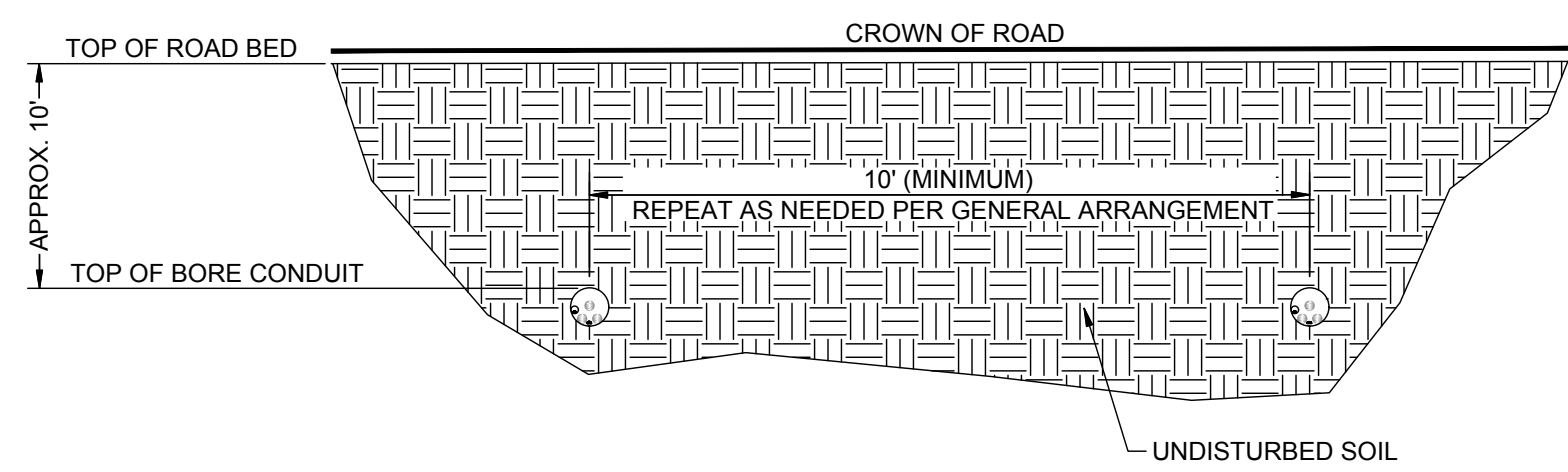


**1** TYPICAL BORE SECTION UNDER LOCAL PAVED ROADS  
SCALE: NTS

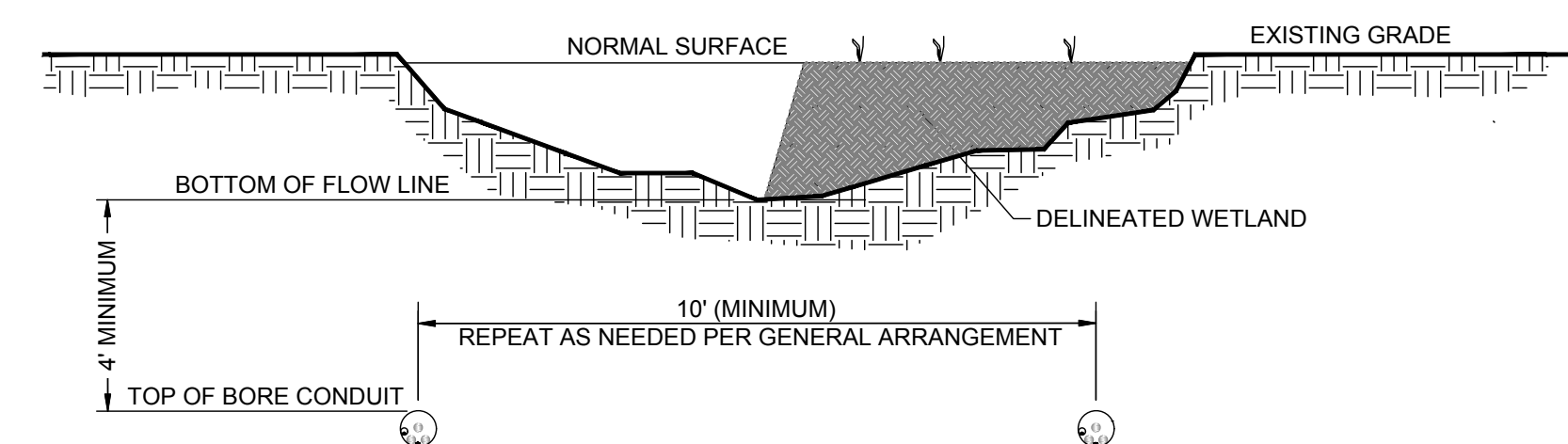
- NOTES:
- UNDERGROUND OR EXISTING UTILITIES MAY BE PRESENT WITHIN OR ADJACENT TO THE EXCAVATION AREA(S). CONTACT LOCAL "ONE CALL" UTILITY LOCATING SERVICE AT LEAST 48 HOURS PRIOR TO EXCAVATION. MAINTAIN LOCATION MARKS AS NEEDED UNTIL INSTALLATION IS COMPLETED.
  - CONTRACTOR SHALL COMPLY WITH ANY SPECIFIC AGREEMENTS AND PERMITS OBTAINED FOR EACH INSTALLATION.
  - ALL COUNTY ROAD CROSSINGS MUST MAINTAIN AT LEAST 36 INCHES UNDER ANY EXISTING UTILITIES, OR 48 INCHES UNDER THE CENTERLINE OF THE ROAD, OR 48 INCHES BELOW THE DITCH LINES, WHICHEVER IS DEEPER. VERIFY DEPTH REQUIRED WITH ENGINEER BEFORE CROSSING IS COMMENCED.
  - INSTALL ALL CABLES CROSSING UNDER COUNTY ROADS IN CONDUIT.
  - WHEN CROSSING LOCAL AND/OR COUNTY ROADS, ALL EXCAVATION WORK SHALL HAPPEN AT LEAST 5 FEET OUTSIDE THE ROAD EASEMENT, UNLESS APPROVED OTHERWISE BY THE AUTHORITY HAVING JURISDICTION. ANY DISTURBED PORTIONS OF THE ROADWAY OR ITS RIGHT-OF-WAY SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR.
  - ALL EXCAVATIONS FOR DRILLING, JACKING, RAMMING, BORING, RECEIVING, OR CABLE INSTALLATION SHALL BE BACKFILLED AND COMPACTED TO MATCH TRENCH BACKFILL AND COMPACTION REQUIREMENTS.
  - WHEN CROSSING DELINEATED SURFACE WATER, WETLAND, OR STREAM FEATURES, ALL EXCAVATION WORK SHALL HAPPEN NO CLOSER THAN 50FT BEYOND THE DESIGNATED EDGE OF SAID FEATURE. IF THIS SEPARATION IS NOT FEASIBLE, CONTRACTOR SHALL KEEP EXCAVATION AREA AS FAR AS POSSIBLE AND AS SMALL AS POSSIBLE TO SAFELY INSTALL CONDUIT AND/OR CABLE.
  - IF NEEDED TO MAINTAIN CABLE INSTALLATION REQUIREMENTS, A SPLICE MAY BE INSTALLED AT OR NEAR THE CONDUIT ENTRANCE. DO NOT ALLOW THE SPLICE TO ENTER THE CONDUIT.



**2** TYPICAL BORE SECTION UNDER DELINEATED WATER OR WETLAND  
SCALE: NTS



**A** ROAD BORE SECTION  
SCALE: NTS



**B** WATER / WETLAND BORE SECTION  
SCALE: NTS

**PRELIMINARY**  
NOT FOR CONSTRUCTION

**TRC** 670 NORTH COMMERCIAL STREET SUITE 203  
MANCHESTER, NH 03101

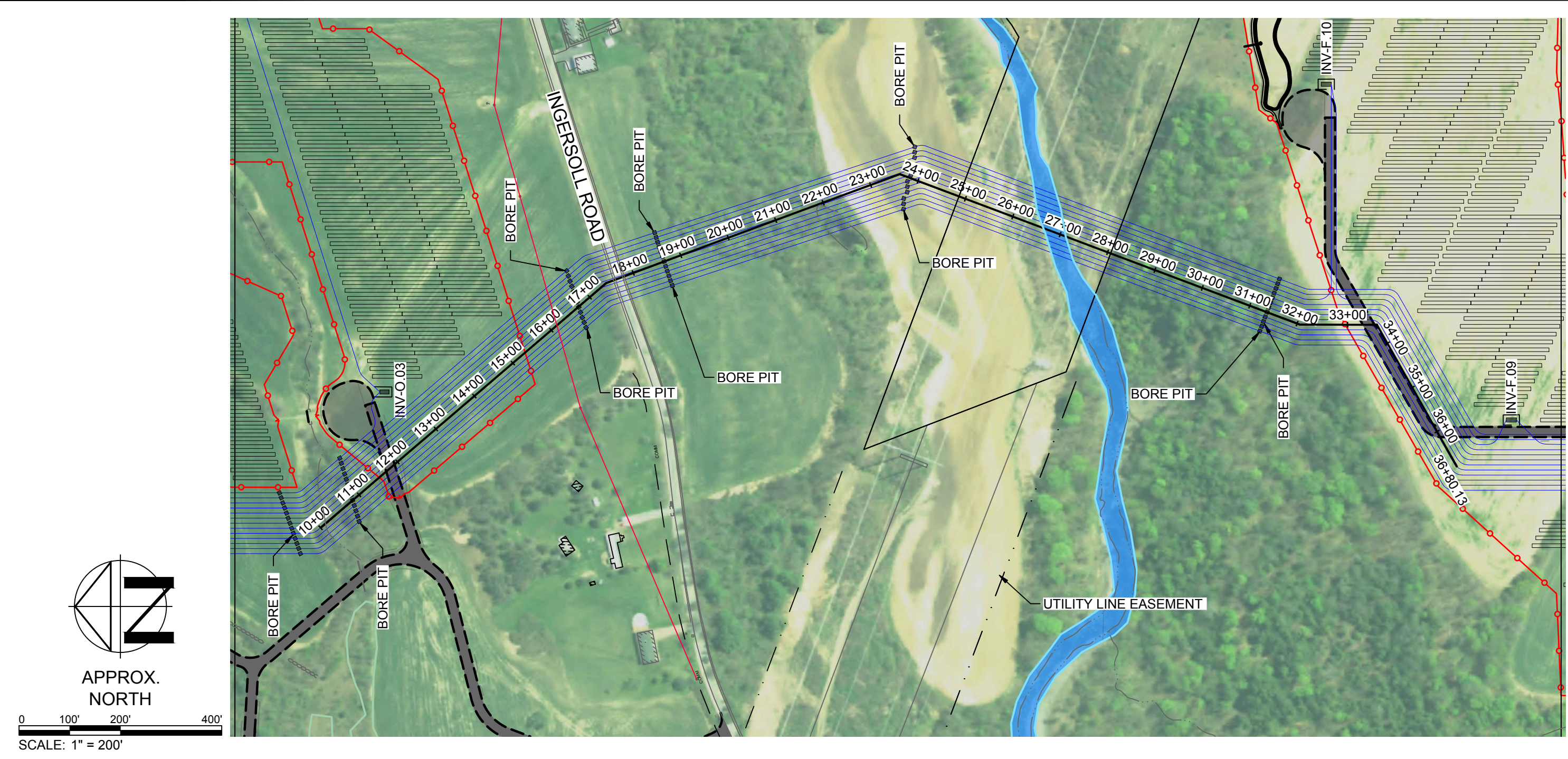


JAK DESIGNED	MILL POINT SOLAR I PROJECT CONNECTGEN MONTGOMERY COUNTY LLC DIRECTIONAL BORE DETAILS	GLEN NEW YORK	REV. C
JAK DRAWN			
JTG CHECKED			
DVL APPROVED			
REVIEW 1	01/15/24 DATE	<b>TRC</b>	MPS-E-602-02
REVIEW 2	AS NOTED SCALE		

REFERENCE ITEMS	REV	DESCRIPTION	DATE	DES	CHK	APP
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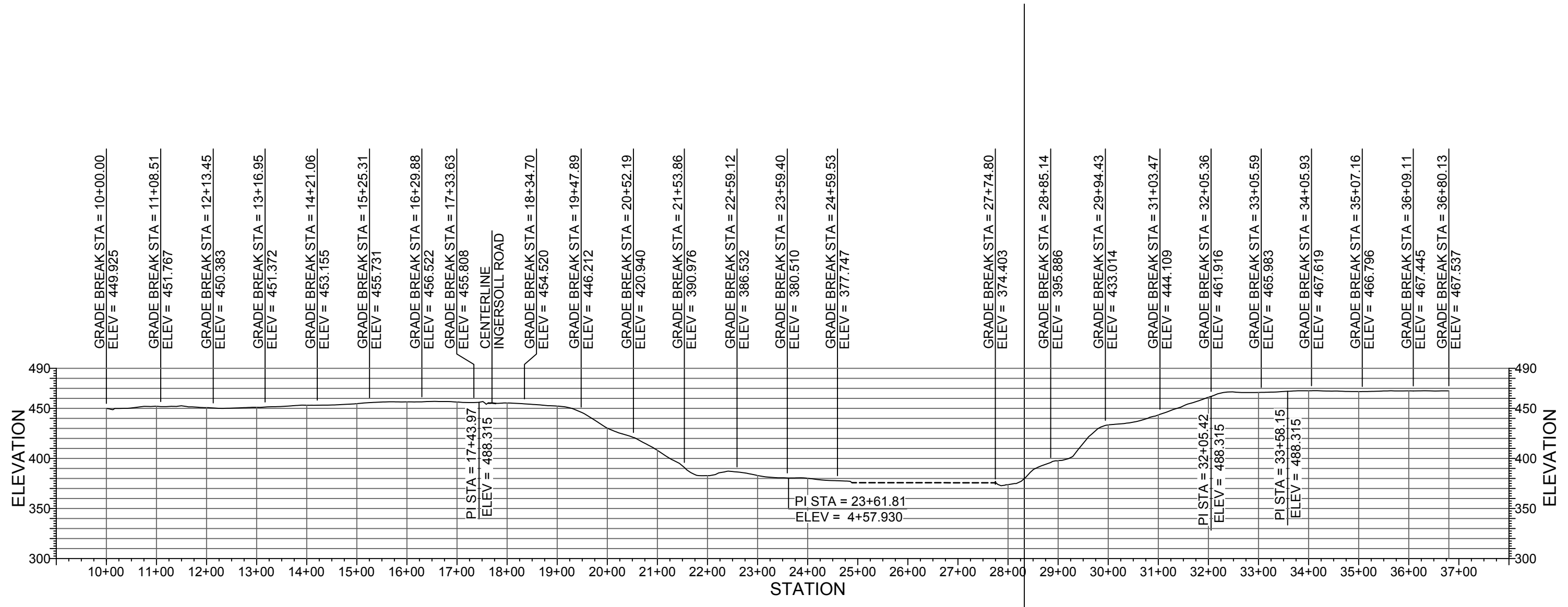
PROJECT NO: 443269



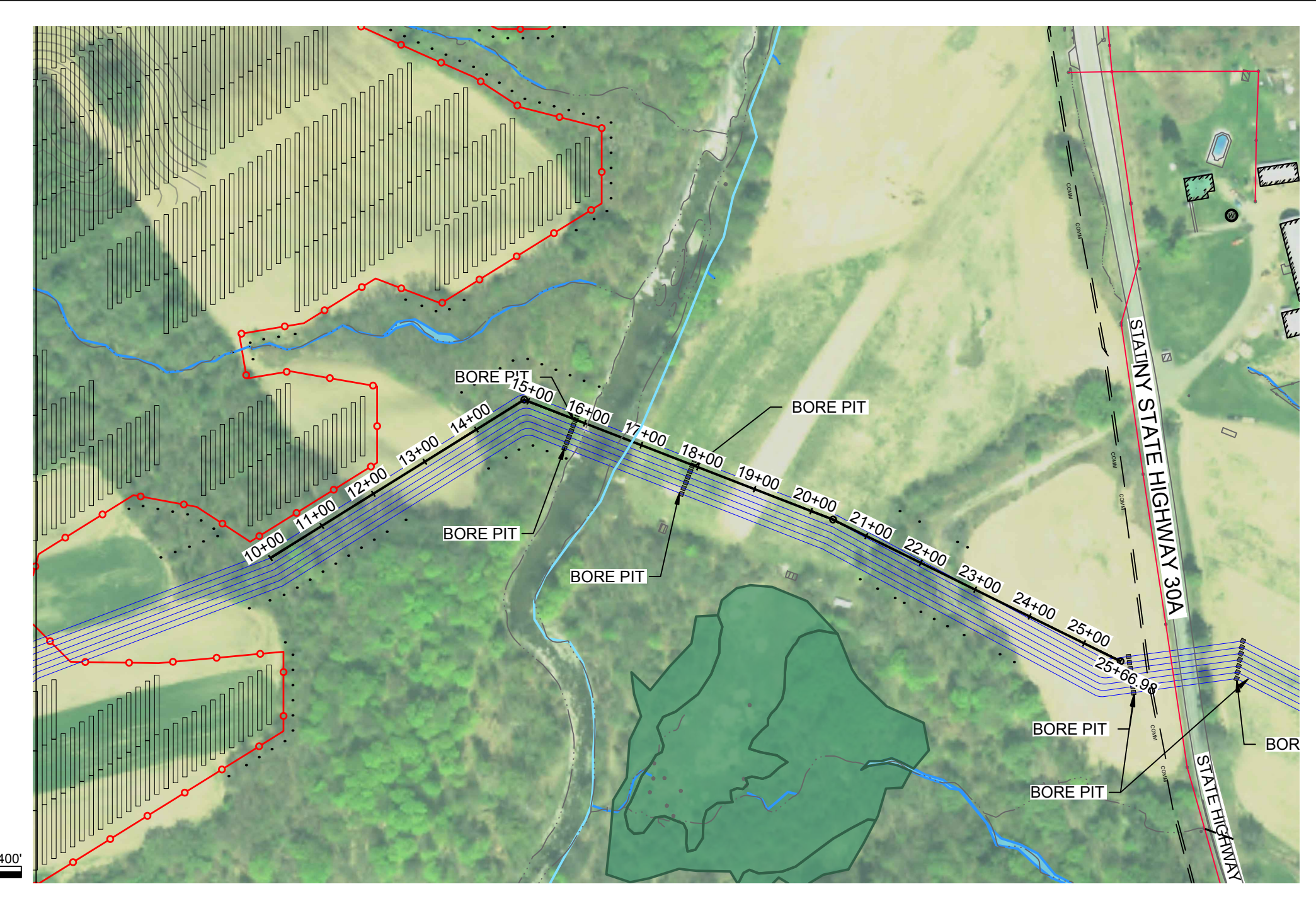


**A PLAN - CREEK CROSSING 1 (NEAR SUBSTATION)**  
SCALE: 1" = 200'

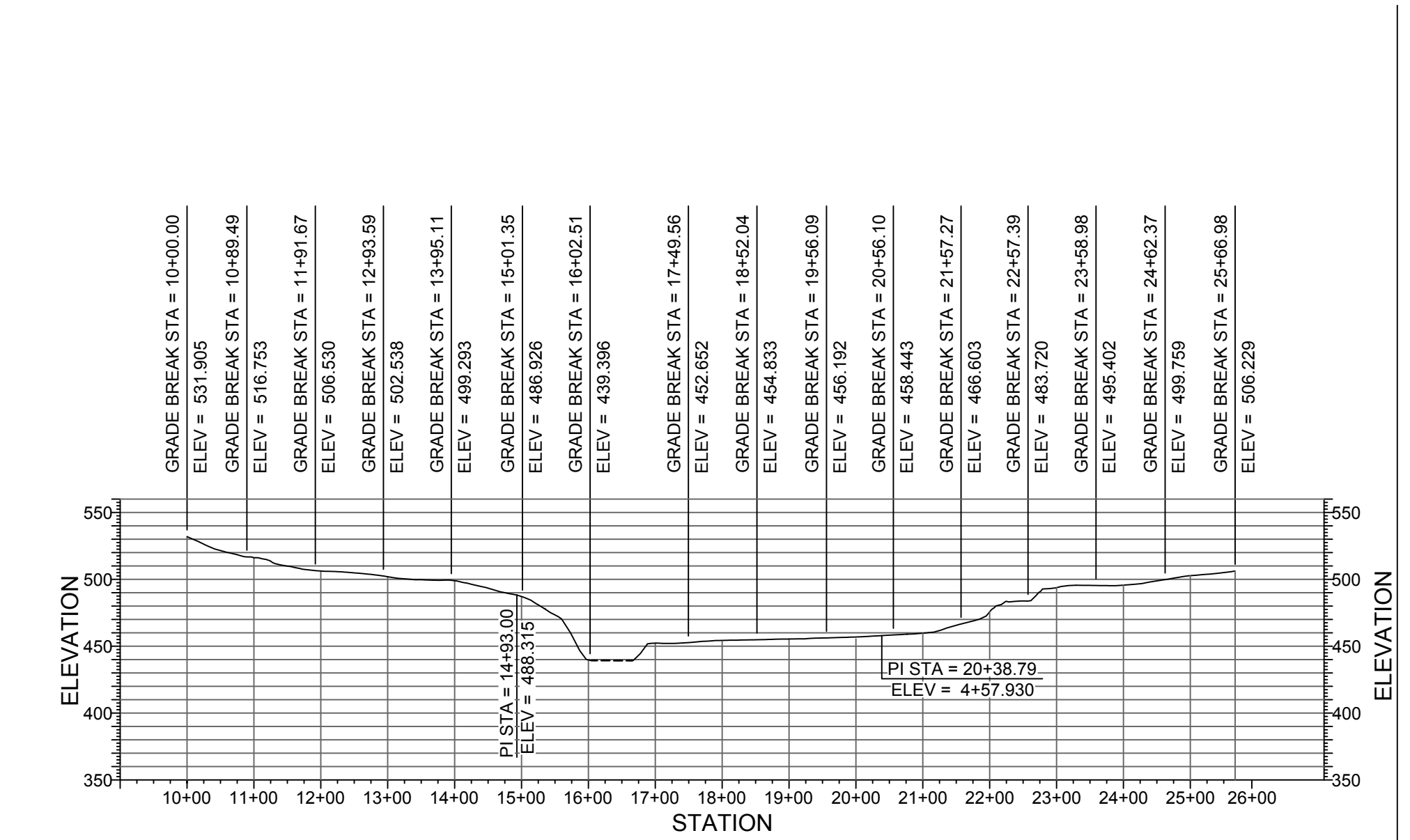
**NOTES:**  
1. THE MV CABLES SHALL CROSS THE NATIONAL GRID EASEMENT PERPENDICULARLY AND AS A CONSEQUENCE IT WILL HAVE TO CROSS THE CREEK AT AN ANGLE, AS SHOWN HERE.



**B PROFILE - CREEK CROSSING 1 (NEAR SUBSTATION)**  
SCALE: 1" = 200' HORIZ  
1" = 100' VERT



**C PLAN - CREEK CROSSING 2 (NEAR NY STATE ROUTE 30A)**  
SCALE: 1" = 200'



**D PROFILE - CREEK CROSSING 2 (NEAR NY STATE ROUTE 30A)**  
SCALE: 1" = 200' HORIZ  
1" = 100' VERT

**PRELIMINARY**  
NOT FOR CONSTRUCTION

**LEGEND**

- WETLAND (USACE)
- WETLAND (NYDEC)
- WETLAND (ISOLATED)
- SURFACE WATER (USACE)
- SURFACE WATER (NYDEC)
- PANEL EXCLUSION AREA (PEA)
- SINGLE AXIS TRACKER
- INVERTER
- MV ROUTING
- UTILITY EASEMENT
- OVERHEAD UTILITY
- BORE PIT
- FENCE

670 NORTH COMMERCIAL STREET SUITE 203 MANCHESTER, NH 03101		PROJECT NO: 443269				
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	MILL POINT SOLAR I PROJECT CONNECTGEN MONTGOMERY COUNTY LLC PLAN & PROFILES		NEW YORK
	GLEN	01/15/24 DATE AS NOTED SCALE	REV: C
		MPS-E-603-01	