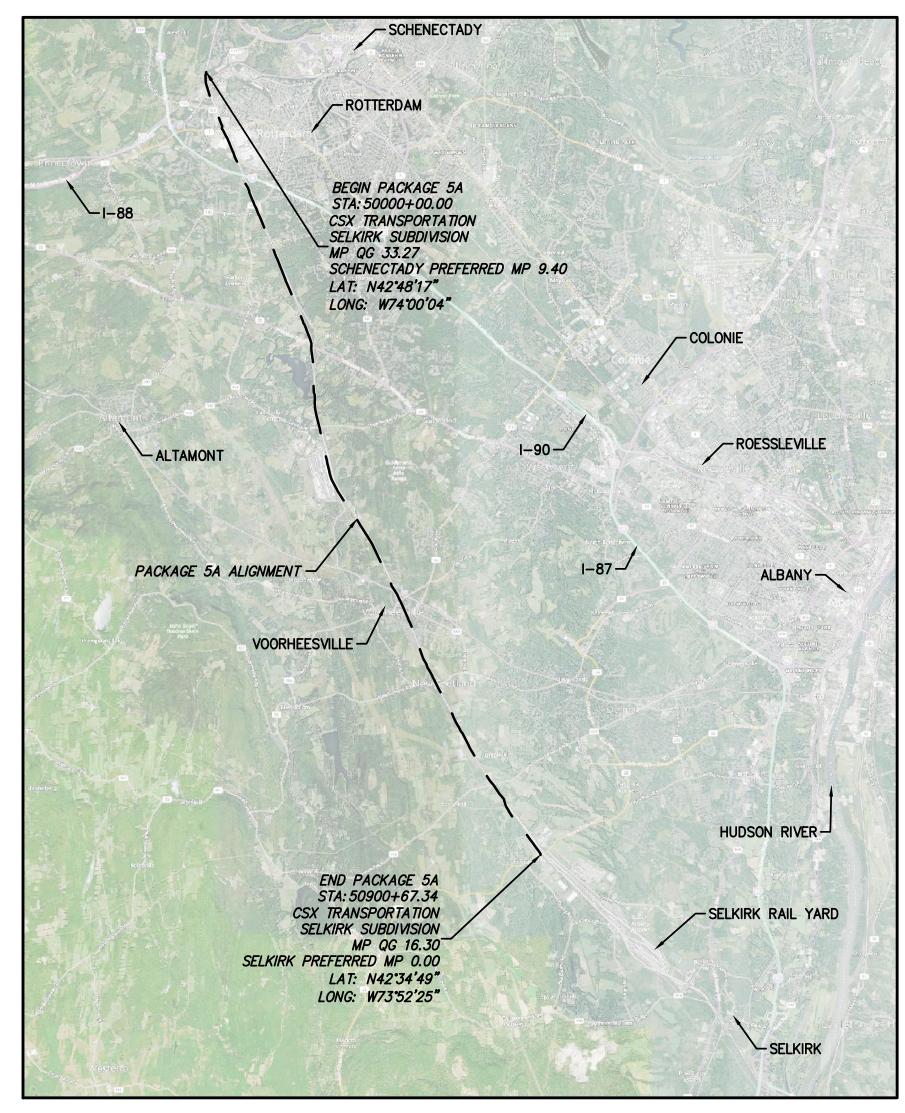
# CHAMPLAIN HUDSON POWER EXPRESS

SEGMENT 8 (PACKAGE 5A) CSX: ROTTERDAM TO BETHLEHEM SCHENECTADY & ALBANY COUNTY, NEW YORK ISSUED FOR CONSTRUCTION SUBMISSION PLANS











IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

					CHAMPLAIN HUDSON POWER EXPRESS		ROJECT NO.
					SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM		1102
					COVER SHEET	DRAV	VING NO.
						G-	000
0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION	BV	TK			
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	SCALE AS SHOWN D		06/09/2023 1 OF
INO.	DAIL	300 WITTAL / REVISION DESCRIPTION	00	ALL	DRAWN BY: AR DESIGNED BY: BV APPROVED BY: TK REV NO 0 S	SH NO	

SHEET LIST TABLE

DRAWING

	SHEET LIST TABLE
DRAWING	SHEET NAME
NUMBER C-149	STA. 50720+00.00 TO STA. 50735+00.00 PLAN AND PROFILE
C-150	STA. 50735+00.00 TO STA. 50750+00.00 PLAN AND PROFILE
C-151	STA. 50750+00.00 TO STA. 50765+00.00 PLAN AND PROFILE
C-152	STA. 50765+00.00 TO STA. 50780+00.00 PLAN AND PROFILE
C-153	STA. 50780+00.00 TO STA. 50795+00.00 PLAN AND PROFILE
C-154	STA. 50795+00.00 TO STA. 50810+00.00 PLAN AND PROFILE
C-155	STA. 50810+00.00 TO STA. 50825+00.00 PLAN AND PROFILE
C-156	STA. 50825+00.00 TO STA. 50840+00.00 PLAN AND PROFILE
C-157	STA. 50840+00.00 TO STA. 50855+00.00 PLAN AND PROFILE
C-158	STA. 50855+00.00 TO STA. 50870+00.00 PLAN AND PROFILE
C-159	STA. 50870+00.00 TO STA. 50885+00.00 PLAN AND PROFILE
C-160	STA. 50885+00.00 TO STA. 50900+67.34 PLAN AND PROFILE
C-201	OFF-SITE ACCESS ROAD AND ROUTE PLANS  TEMP OFF-SITE ACCESS ROADS (5A-01-RD)
C-201	
	TEMP OFF-SITE ACCESS ROADS (5A-03-RD & 5A-04-RD)
C-203	TEMP OFF-SITE ACCESS ROADS (5A-05-RD)
C-204	TEMP OFF-SITE ACCESS ROADS (5A-05-RD)
C-205	TEMP OFF-SITE ACCESS ROADS (5A-05-RD)
C-206	TEMP OFF-SITE ACCESS ROADS (5A-06-RD)
C-207	TEMP OFF-SITE ACCESS ROADS (5A-08-RD & 5A-09-RD)
C-208	TEMP OFF-SITE ACCESS ROADS (5A-10-RD & 5A-11-RD)
C-209	TEMP OFF-SITE ACCESS ROADS (5A-12-RD)
C-210	TEMP OFF-SITE ACCESS ROADS (5A-13-RD & 5A-14-RD)
C-211	TEMP OFF-SITE ACCESS ROADS (5A-15-RD)
C-212	TEMP OFF-SITE ACCESS ROUTES (5A-01-RTE & 5A-02-RTE)
C-213	TEMP OFF-SITE ACCESS ROUTES (5A-03-RTE)
C-214	TEMP OFF-SITE ACCESS ROUTES (5A-04-RTE)
C-215	TEMP OFF-SITE ACCESS ROUTES (5A-06-RTE)
C-216	TEMP OFF-SITE ACCESS ROUTES (5A-07-RTE)
C-217	TEMP OFF-SITE ACCESS ROUTES (5A-08-RTE)
C-218	TEMP OFF-SITE ACCESS ROUTES (5A-08-RTE)
C-219	TEMP OFF-SITE ACCESS ROUTES (5A-08-RTE)
C-220	TEMP OFF-SITE ACCESS ROUTES (5A-09-RTE)
C-221	TEMP OFF-SITE ACCESS ROUTES (5A-09A-RTE)
C-222	TEMP OFF-SITE ACCESS ROUTES (5A-10-RTE)
C-223	TEMP OFF-SITE ACCESS ROUTES (5A-11-RTE)
C-224	TEMP OFF-SITE ACCESS ROUTES (5A-12-RTE)
	HDD TRENCHLESS PLANS
C-301	PROPOSED PLAN AND PROFILE - HDD 71 - CONDUIT 1
C-302	PROPOSED PLAN AND PROFILE - HDD 71 - CONDUIT 1
C-303	PROPOSED PLAN AND PROFILE - HDD 71 - CONDUIT 1
C-304 C-305	PROPOSED PLAN AND PROFILE HDD 71 — CONDUIT 1
C-305 C-306	PROPOSED PLAN AND PROFILE - HDD 72 - CONDUIT 1
C-306	PROPOSED PLAN AND PROFILE — HDD 72 — CONDUIT 2  PROPOSED PLAN AND PROFILE — HDD 73 — CONDUIT 1
C-307	PROPOSED PLAN AND PROFILE - HDD 73 - CONDUIT 2
C-309	PROPOSED PLAN AND PROFILE HDD 73A, 74 — CONDUIT 1
C-310	PROPOSED PLAN AND PROFILE HDD 73A, 74 - CONDUIT 1
C-311	PROPOSED PLAN AND PROFILE HDD 73A, 74 - CONDUIT 2
C-312	PROPOSED PLAN AND PROFILE HDD 73A, 74 - CONDUIT 2
C-313	PROPOSED PLAN AND PROFILE - HDD 75 - CONDUIT 1
C-314	PROPOSED PLAN AND PROFILE - HDD 75 - CONDUIT 2
C-315	PROPOSED PLAN AND PROFILE HDD 75.A.A - CONDUIT 1
C-316	PROPOSED PLAN AND PROFILE HDD 75.A.A — CONDUIT 2
C-317	PROPOSED PLAN AND PROFILE HDD 75.A — CONDUIT 1
C-318	PROPOSED PLAN AND PROFILE HDD 75.A — CONDUIT 1
C-319	PROPOSED PLAN AND PROFILE HDD 75.A — CONDUIT 2
C-320	PROPOSED PLAN AND PROFILE HDD 75.A — CONDUIT 2
C-321	PROPOSED PLAN AND PROFILE HDD 75.B — CONDUIT 1
C-322	PROPOSED PLAN AND PROFILE HDD 75.B — CONDUIT 2
C-323	PROPOSED PLAN AND PROFILE HDD 76, 76A — CONDUIT 1
C-324 C-325	PROPOSED PLAN AND PROFILE HDD 76, 76A — CONDUIT 1  PROPOSED PLAN AND PROFILE HDD 76, 76A — CONDUIT 2
C-325 C-326	PROPOSED PLAN AND PROFILE HDD 76, 76A - CONDUIT 2  PROPOSED PLAN AND PROFILE HDD 76, 76A - CONDUIT 2
U 020	I NOI OSED I LAN AND I NOITEE HDD 70, 70A - CONDUIT Z

DRAWING NUMBER	SHEET LIST TABLE  SHEET NAME
C-327	PROPOSED PLAN AND PROFILE HDD 77, CONDUIT 1
C-328	PROPOSED PLAN AND PROFILE HDD 77, CONDUIT 1
C-329	PROPOSED PLAN AND PROFILE HDD 77, CONDUIT 1
C-330	PROPOSED PLAN AND PROFILE HDD 77, CONDUIT 2
C-331	PROPOSED PLAN AND PROFILE HDD 78, CONDUIT 1
C-332	PROPOSED PLAN AND PROFILE HDD 78, CONDUIT 2
C-333	PROPOSED PLAN AND PROFILE HDD 78, CONDUIT 2
C-334	PROPOSED PLAN AND PROFILE HDD 78, CONDUIT 2
C-335	PROPOSED PLAN AND PROFILE HDD 79B, CONDUIT 1
C-336	PROPOSED PLAN AND PROFILE HDD 79B, CONDUIT 2
C-337	PROPOSED PLAN AND PROFILE HDD 80, CONDUIT 1
C-338	PROPOSED PLAN AND PROFILE HDD 80, CONDUIT 1
C-339	PROPOSED PLAN AND PROFILE HDD 80, CONDUIT 1
C-340	PROPOSED PLAN AND PROFILE HDD 80, CONDUIT 1
C-341	PROPOSED PLAN AND PROFILE HDD 80A - CONDUIT 1
C-342	PROPOSED PLAN AND PROFILE HDD 80A — CONDUIT 1
C-343	PROPOSED PLAN AND PROFILE HDD 80A - CONDUIT 2
C-344	PROPOSED PLAN AND PROFILE HDD 80A — CONDUIT 2
C-345 C-346	PROPOSED PLAN AND PROFILE HDD 81, CONDUIT 1
C-346 C-347	PROPOSED PLAN AND PROFILE HDD 81, CONDUIT 1
C-347 C-348	PROPOSED PLAN AND PROFILE HDD 82,83 CONDUIT 1 PROPOSED PLAN AND PROFILE HDD 82,83 CONDUIT 1
C-348 C-349	PROPOSED PLAN AND PROFILE HDD 82,83 CONDUIT 1  PROPOSED PLAN AND PROFILE HDD 82,83 CONDUIT 2
C-349 C-350	PROPOSED PLAN AND PROFILE HDD 82,83 CONDUIT 2  PROPOSED PLAN AND PROFILE HDD 82,83 CONDUIT 2
C-350 C-351	PROPOSED PLAN AND PROFILE HDD 82,63 CONDUIT 2  PROPOSED PLAN AND PROFILE HDD 83A, CONDUIT 1
C-351 C-352	PROPOSED PLAN AND PROFILE HDD 83A, CONDUIT 1  PROPOSED PLAN AND PROFILE HDD 83A, CONDUIT 2
C-353	PROPOSED PLAN AND PROFILE HDD 84, CONDUIT 1
C-354	PROPOSED PLAN AND PROFILE HDD 84, CONDUIT 2
C-355	PROPOSED PLAN AND PROFILE HDD 84A, CONDUIT 1
C-356	PROPOSED PLAN AND PROFILE HDD 84A, CONDUIT 1
C-357	PROPOSED PLAN AND PROFILE HDD 84B, CONDUIT 1
C-358	PROPOSED PLAN AND PROFILE HDD 84B, CONDUIT 1
C-359	PROPOSED PLAN AND PROFILE HDD 85, CONDUIT 1
C-360	PROPOSED PLAN AND PROFILE HDD 85, CONDUIT 1
C-361	PROPOSED PLAN AND PROFILE HDD 85, CONDUIT 2
C-362	PROPOSED PLAN AND PROFILE HDD 85, CONDUIT 2
C-363	PROPOSED PLAN AND PROFILE HDD 87, CONDUIT 1
C-364	PROPOSED PLAN AND PROFILE HDD 87, CONDUIT 2
C-365	PROPOSED PLAN AND PROFILE HDD 87A.A CONDUIT 1
C-366	PROPOSED PLAN AND PROFILE HDD 87A.A CONDUIT 2
PACKAGE 5A: [	EROSION AND SEDIMENT CONTROL PLANS
C-400	E&CS KEY PLAN
C-401	
	STA 50000+00 TO STA 50030+00
C-402	STA 50000+00 TO STA 50030+00 STA 50030+00 TO STA 50060+00
C-402 C-403	
C-403	STA 50030+00 TO STA 50060+00
C-403 C-404 C-405	STA 50030+00 TO STA 50060+00  STA 50060+00 TO STA 50090+00  STA 50090+00 TO STA 50120+00  STA 50120+00 TO STA 50150+00
C-403 C-404 C-405 C-406	STA 50030+00 TO STA 50060+00  STA 50060+00 TO STA 50090+00  STA 50090+00 TO STA 50120+00  STA 50120+00 TO STA 50150+00  STA 50150+00 TO STA 50180+00
C-403 C-404 C-405 C-406 C-407	STA 50030+00 TO STA 50060+00  STA 50060+00 TO STA 50090+00  STA 50090+00 TO STA 50120+00  STA 50120+00 TO STA 50150+00  STA 50150+00 TO STA 50180+00  STA 50180+00 TO STA 50210+00
C-403 C-404 C-405 C-406 C-407 C-408	STA 50030+00 TO STA 50060+00  STA 50060+00 TO STA 50090+00  STA 50090+00 TO STA 50120+00  STA 50120+00 TO STA 50150+00  STA 50150+00 TO STA 50180+00  STA 50180+00 TO STA 50210+00  STA 50210+00 TO STA 50240+00
C-403 C-404 C-405 C-406 C-407 C-408 C-409	STA 50030+00 TO STA 50060+00  STA 50060+00 TO STA 50090+00  STA 50090+00 TO STA 50120+00  STA 50120+00 TO STA 50150+00  STA 50150+00 TO STA 50180+00  STA 50180+00 TO STA 50210+00  STA 50210+00 TO STA 50240+00  STA 50240+00 TO STA 50270+00
C-403 C-404 C-405 C-406 C-407 C-408 C-409	STA 50030+00 TO STA 50060+00  STA 50060+00 TO STA 50090+00  STA 50090+00 TO STA 50120+00  STA 50120+00 TO STA 50150+00  STA 50150+00 TO STA 50180+00  STA 50180+00 TO STA 50210+00  STA 50210+00 TO STA 50240+00  STA 50270+00 TO STA 50270+00  STA 50270+00 TO STA 50300+00
C-403 C-404 C-405 C-406 C-407 C-408 C-409 C-410 C-411	STA 50030+00 TO STA 50060+00  STA 50060+00 TO STA 50090+00  STA 50090+00 TO STA 50120+00  STA 50120+00 TO STA 50150+00  STA 50150+00 TO STA 50180+00  STA 50180+00 TO STA 50210+00  STA 50210+00 TO STA 50240+00  STA 50240+00 TO STA 50270+00  STA 50270+00 TO STA 50300+00  STA 50300+00 TO STA 50330+00
C-403 C-404 C-405 C-406 C-407 C-408 C-409 C-410 C-411 C-412	STA 50030+00 TO STA 50060+00         STA 50060+00 TO STA 50090+00         STA 50090+00 TO STA 50120+00         STA 50120+00 TO STA 50150+00         STA 50150+00 TO STA 50180+00         STA 50180+00 TO STA 50210+00         STA 50210+00 TO STA 50240+00         STA 50240+00 TO STA 50270+00         STA 50270+00 TO STA 50300+00         STA 50300+00 TO STA 50330+00         STA 50330+00 TO STA 50360+00
C-403 C-404 C-405 C-406 C-407 C-408 C-409 C-410 C-411 C-412 C-413	STA 50030+00 TO STA 50060+00         STA 50060+00 TO STA 50090+00         STA 50090+00 TO STA 50120+00         STA 50120+00 TO STA 50150+00         STA 50150+00 TO STA 50180+00         STA 50180+00 TO STA 50210+00         STA 50210+00 TO STA 50240+00         STA 50240+00 TO STA 50270+00         STA 50270+00 TO STA 50300+00         STA 50330+00 TO STA 50330+00         STA 50360+00 TO STA 50390+00
C-403 C-404 C-405 C-406 C-407 C-408 C-409 C-410 C-411 C-412 C-413 C-414	STA 50030+00 TO STA 50060+00         STA 50060+00 TO STA 50090+00         STA 50090+00 TO STA 50120+00         STA 50120+00 TO STA 50150+00         STA 50150+00 TO STA 50180+00         STA 50180+00 TO STA 50210+00         STA 50210+00 TO STA 50240+00         STA 50240+00 TO STA 50270+00         STA 50270+00 TO STA 50300+00         STA 50300+00 TO STA 50330+00         STA 50360+00 TO STA 50390+00         STA 50390+00 TO STA 50420+00
C-403 C-404 C-405 C-406 C-407 C-408 C-409 C-410 C-411 C-412 C-413 C-414 C-415	STA 50030+00 T0 STA 50060+00         STA 50060+00 T0 STA 50090+00         STA 50090+00 T0 STA 50120+00         STA 50120+00 T0 STA 50150+00         STA 50150+00 T0 STA 50180+00         STA 50180+00 T0 STA 50210+00         STA 50210+00 T0 STA 50240+00         STA 50240+00 T0 STA 50270+00         STA 50270+00 T0 STA 50300+00         STA 50300+00 T0 STA 50330+00         STA 50330+00 T0 STA 50390+00         STA 50390+00 T0 STA 50420+00         STA 50420+00 T0 STA 50450+00
C-403 C-404 C-405 C-406 C-407 C-408 C-409 C-410 C-411 C-412 C-413 C-414 C-415 C-416	STA 50030+00 TO STA 50060+00         STA 50060+00 TO STA 50090+00         STA 50090+00 TO STA 50120+00         STA 50120+00 TO STA 50150+00         STA 50150+00 TO STA 50180+00         STA 50180+00 TO STA 50210+00         STA 50210+00 TO STA 50240+00         STA 50240+00 TO STA 50270+00         STA 50270+00 TO STA 50300+00         STA 50300+00 TO STA 50330+00         STA 50330+00 TO STA 50360+00         STA 50390+00 TO STA 50390+00         STA 50420+00 TO STA 50420+00         STA 50450+00 TO STA 50480+00
C-403 C-404 C-405 C-406 C-407 C-408 C-409 C-410 C-411 C-412 C-413 C-414 C-415 C-416 C-417	STA 50030+00 T0 STA 50060+00         STA 50060+00 T0 STA 50090+00         STA 50090+00 T0 STA 50120+00         STA 50120+00 T0 STA 50150+00         STA 50150+00 T0 STA 50180+00         STA 50180+00 T0 STA 50210+00         STA 50210+00 T0 STA 50240+00         STA 50240+00 T0 STA 50270+00         STA 50270+00 T0 STA 50300+00         STA 50300+00 T0 STA 50330+00         STA 50330+00 T0 STA 50360+00         STA 50390+00 T0 STA 50390+00         STA 50420+00 T0 STA 50420+00         STA 50450+00 T0 STA 50480+00         STA 50480+00 T0 STA 50480+00
C-403 C-404 C-405 C-406 C-407 C-408 C-409 C-410 C-411 C-412 C-413 C-414 C-415 C-416 C-417 C-418	STA 50030+00 TO STA 50060+00         STA 50060+00 TO STA 50090+00         STA 50090+00 TO STA 50120+00         STA 50120+00 TO STA 50150+00         STA 50150+00 TO STA 50180+00         STA 50180+00 TO STA 50210+00         STA 50210+00 TO STA 50240+00         STA 50220+00 TO STA 50220+00         STA 50220+00 TO STA 50300+00         STA 50300+00 TO STA 50330+00         STA 50330+00 TO STA 50360+00         STA 50390+00 TO STA 50390+00         STA 50390+00 TO STA 50420+00         STA 50420+00 TO STA 50450+00         STA 50480+00 TO STA 50510+00         STA 50510+00 TO STA 50540+00
C-403 C-404 C-405 C-406 C-407 C-408 C-409 C-410 C-411 C-412 C-413 C-414 C-415 C-416 C-417 C-418 C-419	STA 50030+00 TO STA 50060+00         STA 50060+00 TO STA 50090+00         STA 50090+00 TO STA 50120+00         STA 50120+00 TO STA 50150+00         STA 50150+00 TO STA 50180+00         STA 50180+00 TO STA 50210+00         STA 50210+00 TO STA 50240+00         STA 50240+00 TO STA 50270+00         STA 50270+00 TO STA 50300+00         STA 50300+00 TO STA 50330+00         STA 50330+00 TO STA 50360+00         STA 50360+00 TO STA 50390+00         STA 50390+00 TO STA 50420+00         STA 50420+00 TO STA 50450+00         STA 50480+00 TO STA 50510+00         STA 50510+00 TO STA 50570+00
C-403 C-404 C-405 C-406 C-407 C-408 C-409 C-410 C-411 C-412 C-413 C-414 C-415 C-416 C-417 C-418 C-419 C-420	STA 50030+00 T0 STA 50060+00         STA 50060+00 T0 STA 50090+00         STA 50090+00 T0 STA 50120+00         STA 50120+00 T0 STA 50150+00         STA 50150+00 T0 STA 50180+00         STA 50180+00 T0 STA 50210+00         STA 50210+00 T0 STA 50240+00         STA 50220+00 T0 STA 50270+00         STA 50270+00 T0 STA 50300+00         STA 50300+00 T0 STA 50330+00         STA 50330+00 T0 STA 50360+00         STA 50390+00 T0 STA 50390+00         STA 50420+00 T0 STA 50420+00         STA 50420+00 T0 STA 50450+00         STA 50450+00 T0 STA 50480+00         STA 50540+00 T0 STA 50510+00         STA 50510+00 T0 STA 50540+00         STA 50570+00 T0 STA 50570+00
C-403 C-404 C-405 C-406 C-407 C-408 C-409 C-410 C-411 C-412 C-413 C-414 C-415 C-416 C-417 C-418 C-419 C-420 C-421	STA 50030+00 TO STA 50060+00         STA 50060+00 TO STA 50090+00         STA 50090+00 TO STA 50120+00         STA 50120+00 TO STA 50150+00         STA 50150+00 TO STA 50180+00         STA 50180+00 TO STA 50210+00         STA 50210+00 TO STA 50240+00         STA 50240+00 TO STA 50270+00         STA 50270+00 TO STA 50300+00         STA 50300+00 TO STA 50330+00         STA 50330+00 TO STA 50390+00         STA 50390+00 TO STA 50420+00         STA 50420+00 TO STA 50450+00         STA 50450+00 TO STA 50480+00         STA 50480+00 TO STA 50510+00         STA 50510+00 TO STA 50570+00         STA 50570+00 TO STA 50600+00         STA 50570+00 TO STA 50600+00         STA 50570+00 TO STA 50630+00
C-403 C-404 C-405 C-406 C-407 C-408 C-409 C-410 C-411 C-412 C-413 C-414 C-415 C-416 C-417 C-418 C-419 C-420 C-421 C-422	STA 50030+00 TO STA 50060+00           STA 50060+00 TO STA 50090+00           STA 50090+00 TO STA 50120+00           STA 50120+00 TO STA 50150+00           STA 50150+00 TO STA 50180+00           STA 50180+00 TO STA 50210+00           STA 50210+00 TO STA 50240+00           STA 50240+00 TO STA 50270+00           STA 50270+00 TO STA 50300+00           STA 50300+00 TO STA 50330+00           STA 50330+00 TO STA 50360+00           STA 50390+00 TO STA 50420+00           STA 50420+00 TO STA 50420+00           STA 50450+00 TO STA 50480+00           STA 50450+00 TO STA 50480+00           STA 50450+00 TO STA 50540+00           STA 50510+00 TO STA 50540+00           STA 50500+00 TO STA 5050+00           STA 50500+00 TO STA 5050+00           STA 50500+00 TO STA 5050+00           STA 50500+00 TO STA 50600+00           STA 50600+00 TO STA 50660+00           STA 50630+00 TO STA 50660+00
C-403 C-404 C-405 C-406 C-407 C-408 C-409 C-410 C-411 C-412 C-413 C-414 C-415 C-416 C-417 C-418 C-419 C-420	STA 50030+00 TO STA 50060+00         STA 50060+00 TO STA 50090+00         STA 50090+00 TO STA 50120+00         STA 50120+00 TO STA 50150+00         STA 50150+00 TO STA 50180+00         STA 50180+00 TO STA 50210+00         STA 50210+00 TO STA 50240+00         STA 50240+00 TO STA 50270+00         STA 50270+00 TO STA 50300+00         STA 50300+00 TO STA 50330+00         STA 50330+00 TO STA 50390+00         STA 50390+00 TO STA 50420+00         STA 50420+00 TO STA 50450+00         STA 50450+00 TO STA 50480+00         STA 50480+00 TO STA 50510+00         STA 50510+00 TO STA 50570+00         STA 50570+00 TO STA 50600+00         STA 50570+00 TO STA 50600+00         STA 50570+00 TO STA 50630+00

	SHEET LIST TABLE
DRAWING NUMBER	SHEET NAME
	STA 50720+00 TO STA 50750+00
	STA 50750+00 TO STA 50780+00
	STA 50780+00 TO STA 50810+00
C-428	STA 50810+00 TO STA 50840+00
C-429	STA 50840+00 TO STA 50870+00
C-430	STA 50870+00 TO STA 50900+44
PACKAGE 5A: MAI	INTENANCE AND PROTECTION OF TRAFFIC PLANS
C-501	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS
C-502	WORK ZONE TRAFFIC CONTROL
C-503	WORK ZONE TRAFFIC CONTROL
C-504	WORK ZONE TRAFFIC CONTROL
C-505	WORK ZONE TRAFFIC CONTROL
C-506	WORK ZONE TRAFFIC CONTROL
C-507A	WORK ZONE TRAFFIC CONTROL PRINCETOWN ROAD DETOUR
C-507B	WORK ZONE TRAFFIC CONTROL PRINCETOWN ROAD DETOUR
C-508	WORK ZONE TRAFFIC CONTROL COUNTY LINE ROAD DETOUR
C-509	WORK ZONE TRAFFIC CONTROL STONE ROAD DETOUR
C-510	WORK ZONE TRAFFIC CONTROL VOORHEESVILLE AVENUE DETOUR
	WORK ZONE TRAFFIC CONTROL NEW SCOTLAND SOUTH ROAD LANE CLOSURE
	WORK ZONE TRAFFIC CONTROL GAME FARM ROAD DETOUR
PACKAGE 5A: DET	
	EROSION AND SEDIMENT CONTROL DETAILS
	WETLAND CROSSING DETAILS
	WATERBAR DETAILS
	WETLAND WORKING SURFACE DETAILS  TYPICAL TEMPORARY SHORING DETAILS
	TRENCHING DETAILS
	CSX CROSSING DETAILS 1 OF 2
	CSX CROSSING DETAILS 1 OF 2  CSX CROSSING DETAILS 2 OF 2
	SECURITY GATE DETAIL
	SURFACE RESTORATION DETAILS
	TAILS—STRUCTURAL
	STRUCTURAL GENERAL NOTES AND ABBREVIATIONS
	FRP LINK BOX HANDHOLES
	FRP COMMUNICATION HANDHOLES
	BRIDGE NO.8 — UTILITY TRUSS BRIDGE — PLAN AND ELEVATION
S_776	BRIDGE NO.8 — UTILITY TRUSS BRIDGE — ABUTMENT ELEVATIONS AND SECTIONS
	BRIDGE NO.8 - UTILITY TRUSS BRIDGE - SECTIONS AND DETAILS
	BRIDGE NO.8 - UTILITY TRUSS BRIDGE - CONDUIT TRANSITION DETAIL
	BRIDGE NO.8 — UTILITY TRUSS BRIDGE — SPANS 1 AND 8 — PLAN AND ELEVATION
<b>&gt;−</b> /×□ I	BRIDGE NO.8 - UTILITY TRUSS BRIDGE - SPANS 2, 3, 4, 5, 7 - PLAN AND ELEVATION
	BRIDGE NO.8 — UTILITY TRUSS BRIDGE — SPAN 6 PLAN AND ELEVATION
	BRIDGE NO.8 - UTILITY TRUSS BRIDGE - TRUSS DETAILS
S-783	BRIDGE NO.8 - UTILITY TRUSS BRIDGE - TYPICAL WELD AND FENCE DETAILS
S-784	BRIDGE NO.8 - UTILITY TRUSS BRIDGE - TYPICAL BEARING AT PIERS
S-785	BRIDGE NO.8 - UTILITY TRUSS BRIDGE - TYPICAL BEARING AT ABUTMENTS
S-786	BRIDGE NO.8 - UTILITY TRUSS BRIDGE - BEARING REACTIONS AND CAMBER
PACKAGE 5A: DET	TAILS-ELECTRICAL
C-801	ABOVE GROUND MARKING DETAILS
C-807	SPLICE VAULT AND CABLE MARKING DETAILS
C-808	TYPICAL OPEN PIT SPLICE CASING DETAILS
C-809	OPEN PIT SPLICE GROUNDING DETAILS
C-811	STEEL SUPPORT DETAILS
PACKAGE 5A: DEŢ	TAILS-COMMUNICATIONS
C-853	CASING CONNECTION DETAILS
C-854	FIBER OPTIC HAND HOLE DETAILS
<del>-</del>	FIBER OPTIC SPLICE DIAGRAM
C-855	
	FIBER OPTIC SLACK ENCLOSURE DETAIL

SHEET LIST TABLE

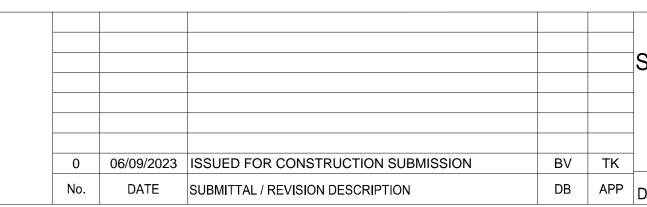




STA. 50705+00.00 TO STA. 50720+00.00 PLAN AND PROFILE



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM SHEET INDEX

KIEWIT PROJECT NO.

DRAWING NO.

G-001

AS SHOWN DATE DB APP DRAWN BY: AR DESIGNED BY: BV APPROVED BY: TK REV. NO.

C-148

2. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER. CHANGES TO THE PLAN SHALL BE DONE IN ACCORDANCE WITH THE EM&CP SECTION 3.2.6.

- 3. THE CONTRACTOR SHALL RESTORE LAWNS, DRIVEWAYS, CULVERTS, SIGNS AND OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD A CONDITION AS BEFORE BEING DISTURBED AS DETERMINED BY THE ENGINEER.
- 4. THE CONTRACTOR AND/OR CERTIFICATE HOLDER SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING THE COST OF ALL CONSTRUCTION PERMITS, INSPECTIONS, CERTIFICATES, ETC. AND SHALL COMPLY WITH ALL REQUIRED PERMITS.
- 5. ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES, AND REGULATIONS.
- 6. ALL PROPOSED UTILITIES AND APPURTENANCES TO BE CONSTRUCTED IN COMPLIANCE WITH THE LOCAL MUNICIPALITIES' CODES AND REGULATIONS GOVERNING THE INSTALLATION OF SUCH UTILITIES.
- 7. THE ENGINEER RESERVES THE RIGHT TO EXAMINE ANY WORK DONE ON THIS PROJECT AT ANY TIME TO DETERMINE THE CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OF THIS PROJECT.
- 8. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER. SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.
- 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS.
- 10. THE CONTRACTOR SHALL:
  - A. VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. B. EXAMINE THE SITE AND INCLUDE IN HIS WORK THE EFFECT OF ALL EXISTING CONDITIONS ON THE WORK.
  - C. PROVIDE AND INSTALL ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH RECOGNIZED GOOD STANDARD PRACTICE.
- 11. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISIONS OF NEW YORK STATE INDUSTRIAL CODE RULE 23 AND OSHA REGULATIONS FOR CONSTRUCTION. SHEET PILING SHALL BE DESIGNED AND SEALED BY A NEW YORK STATE PROFESSIONAL ENGINEER. WHERE WITHIN RAIL ROAD ROW, ANY EXCAVATION AND SHORING SHALL BE DESIGNED TO MINIMUM CSX AND AREMA REQUIREMENTS.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK IN CONFORMANCE WITH REFERENCE SECTION 4.4.6 DEWATERING METHODS IN THE EM&CP. CONTRACTOR SHALL MAINTAIN EXISTING SITE DRAINAGE PATTERNS THROUGHOUT CONSTRUCTION UNLESS OTHERWISE SHOWN ON THE PLANS.
- 13. MAINTAIN FLOW FOR ALL EXISTING UTILITIES.
- 14. ALL FRAMES/COVERS WITHIN PAVED AREAS SHALL HAVE THE TOPS SET FLUSH WITH THE EXISTING PAVEMENT GRADE. IN LANDSCAPED AREAS, ALL FRAMES SHALL BE 0.1' ABOVE GRADE.
- 15. TEMPORARY PAVEMENT SHALL BE PLACED WITHIN 48 HOURS OF COMPLETION OF BACKFILL OPERATIONS WITHIN THE EXISTING PAVEMENT LIMITS.
- 16. CONTRACTOR SHALL MAINTAIN ALL TRAFFIC IN ALL AREAS IN ACCORDANCE WITH THE NYSDOT MANUAL OF UNIFORM TRAFFIC CONTROL
- 17. ALL EXCAVATIONS SHALL BE PROTECTED AT THE END OF EACH WORK DAY PER OSHA AND NYSDOT REQUIREMENTS.
- 18. WITHIN NYSDOT ROW AND TOWN/COUNTY ROADS, ALL OPEN EXCAVATIONS TO BE PROTECTED BY CONCRETE BARRIERS OR BE COVERED BY A STEEL PLATE, 3/4" THICK MINIMUM. A SINGLE PLATE SHOULD COVER THE ENTIRE EXCAVATION AND HAVE ENOUGH BEARING ON SURROUNDING SURFACES TO SUPPORT A VEHICLE.
- 19. CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO EXISTING UTILITIES. UTILITIES DAMAGED BY CONTRACTOR SHALL BE IMMEDIATELY REPAIRED BY CONTRACTOR AT THE CONTRACTOR'S EXPENSE. IF DURING EXCAVATION PREVIOUSLY DAMAGED UTILITIES ARE UNCOVERED, CONTRACTOR SHALL DOCUMENT THE DAMAGE AND REPORT DAMAGE TO THE APPROPRIATE OWNER.
- 20. DEPTH OF BURY FOR EXISTING CABLED UTILITIES FIBER / ELECTRICAL / TELECOM AND WATERLINES UNKNOWN. ASSUMED DEPTH OF BURY FOR CABLED UTILITIES IS 30" UNLESS OTHERWISE SHOWN. ASSUMED DEPTH OF BURY FOR WATERLINES IS 5' UNLESS OTHERWISE SHOWN.
- 21. CONTRACTOR TO COORDINATE ALL DRIVEWAY CROSSINGS WITH THE PROPERTY OWNERS PRIOR TO EXCAVATING. ACCESS TO ALL DRIVEWAYS FOR THE RESIDENTS AND COMMERCIAL PROSPERITIES, WILL NEED TO BE MAINTAINED DURING THE PROJECT. ALL EXCAVATIONS IN THE ENTRANCES/DRIVEWAYS WILL NEED TO BE BACKFILLED AT THE END OF EACH WORKDAY, OR STEEL PLATES SHALL BE INSTALLED TO ALLOW ACCESS DURING CONSTRUCTION. REFER TO THE EM&CP FOR EMERGENCY ACCESS MANAGEMENT PLAN.
- 22. ALL WORK WITHIN AGRICULTURAL LANDS WILL BE PERFORMED IN COMPLIANCE WITH APPLICABLE NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS (NYSDAM) GUIDANCE INCLUDING "NYSDAM GUIDELINES FOR CONSTRUCTION MITIGATIONS FOR AGRICULTURAL LANDS IN AGRICULTURAL AREAS". RESTORATION WORK WILL FOLLOW APPLICABLE SECTIONS OF NYSDAM GUIDANCE "FERTILIZING LIME. AND SEEDING RECOMMENDATIONS FOR RESTORATION OF CONSTRUCTION PROJECTS ON FARMLAND IN NYS".
- 23. WORKING IN WETLANDS: IN GENERAL, STOCKPILING IN WETLANDS AND GRADING WETLAND SOILS FOR ANY ROADS, WORK AREAS, OR PADS IS PROHIBITED. IN ORDER TO ACHIEVE DESIGN GRADES FOR CONSTRUCTION OPERATIONS, EITHER 1) TIMBER MATTING WILL BE LAYERED (STACKED), OR 2) TOPSOIL WILL BE STRIPPED AND STOCKPILED OUTSIDE OF WETLAND AREAS, GEOTEXTILE FABRIC WILL BE PLACED UNDER FILL PER EM&CP REQUIREMENTS AND APPROVED DETAILS. THE CONTOURS SHOWN WITHIN WETLAND AREAS IN THESE PLANS DEPICT THE DIFFERENCE BETWEEN EXISTING AND PROPOSED ELEVATIONS AND ARE NOT INTENDED TO REPRESENT STOCKPILING IN WETLANDS OR GRADING EXISTING WETLAND SOILS. FOR SPECIFIC REQUIREMENTS FOR WORKING IN WETLAND AREAS INCLUDING REQUIREMENTS FOR EXCAVATION AND STOCKPILING, REFER TO EM&CP SECTION 4.4.3 AND 9.1.2.
- 24. AS CONSTRUCTION, OPERATIONAL, AND SAFETY REQUIREMENTS ALLOW; THE CONTRACTOR HAS THE OPTION TO REDUCE IMPACTS (INCLUDING WITHIN WETLAND AREAS) BY 1) REDUCING THE AREA OF TIMBER MATTING, WORK AREAS, OR ACCESS ROADS DEPICTED IN THESE PLANS, AND 2) INCREASING THE LONGITUDINAL AND TRANSVERSE SLOPES OF ROADS AND WORK AREAS.
- 25. SERVICE CONNECTIONS TO BE FIELD LOCATED PRIOR TO CONSTRUCTION.
- 26. FENCES IMPACTED BY CONSTRUCTION WILL BE REPLACED IN KIND. IF A DIFFERENT AGREEMENT IS REACHED WITH THE FENCE OWNER,

#### **EROSION CONTROL NOTES:**

- 1. SEE C-400 SERIES OF SHEETS FOR EROSION AND SEDIMENT CONTROL SHEETS.
- 2. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES.
- 3. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND THE EM&CP DOCUMENTS DURING CONSTRUCTION OPERATIONS.
- 4. NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED. (WETLAND PROTECTION FENCE, SILT FENCE, COMPOST FILTER SOCK, AND STABILIZED CONSTRUCTION ENTRANCE)
- 5. SITE DISTURBANCE SHALL NOT EXCEED FIVE (5) ACRES OF SOIL AT ANY ONE TIME WITHOUT PRIOR WRITTEN AUTHORIZATION FROM NYSDEC DIVISION OF WATER.
- 6. ALL EXPOSED AREAS SHALL BE SEEDED AND MULCHED AS SPECIFIED WITHIN 14 DAYS OF FINAL GRADING. "IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED, THE APPLICATION OF SOIL STABILIZATION MEASURES MUST BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN FOURTEEN (14) DAYS FROM THE DATE THE CURRENT SOIL DISTURBANCE ACTIVITY CEASED."
- 7. INACTIVE PORTIONS OF THE SITE ARE TO BE SEEDED AND MULCHED AS SPECIFIED WITHIN 14 DAYS. "FOR DISTURBED WETLAND AND SENSITIVE AREAS, AREA TO BE RESTORED IN ACCORDANCE WITH THE EM&CP".
- 8. AREAS TO BE SEEDED MUST BE FREE OF LARGE ROCKS AND DEBRIS, AND SEEDED WITHIN 24 HOURS OF DISTURBANCE, OR SCARIFICATION OF THE SOIL SURFACE WILL BE NECESSARY PRIOR TO SEEDING.
- 9. MULCH SHALL BE APPLIED IN CONJUNCTION WITH SEEDING AND APPLIED AT THE RATE OF 90 LBS PER 1000 SQUARE FEET. MULCH SHALL BE REAPPLIED AS NECESSARY.
- 10. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) DAYS OR MORE FREQUENTLY IF REQUIRED. ALL MAINTENANCE REQUIRED BY INSPECTION SHALL COMMENCE WITHIN 24 HOURS AND BE COMPLETED WITHIN 48 HOURS OF
- 11. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
- 12. CONSTRUCTION ROAD STABILIZATION SHALL FOLLOW THE NEW YORK STATE STANDARDS FOR EROSION AND SEDIMENT CONTROL ("BLUE BOOK"), PAGE 2.23. CONSTRUCTION ROADS SHALL BE LOCATED TO REDUCE EROSION POTENTIAL, MINIMIZE IMPACT ON EXISTING SITE RESOURCES, AND MAINTAIN OPERATIONS IN A SAFE MANNER.
- 13. GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
- 14. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY FOLLOWING SITE INSPECTION. THE SWPPP AND/OR ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES IF THE INSPECTOR DEEMS NECESSARY.
- 15. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL
- 16. AT THE END OF EACH WORK DAY DISTURBED SOILS ARE TO BE REGRADED TO DRAIN INTO THE TEMPORARY DIVERSION SWALES AND DISCHARGES FROM DEWATERING ACTIVITIES ARE TO BE DIRECTED TO A VEGETATED AREA. WATER WILL BE PUMPED FROM DEWATERING OPERATIONS INTO PORTABLE SEDIMENT TANKS OR COMMERCIAL SEDIMENT FILTER BAGS TO SETTLE SUSPENDED SILT MATERIAL PRIOR TO DISCHARGE. DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO STATE AND/OR FEDERALLY REGULATED STREAMS AND STORMWATER SYSTEMS WILL BE AVOIDED.
- 17. ONCE THE CONSTRUCTION ACTIVITIES ARE COMPLETE, ALL DISTURBED VEGETATED AREAS SHALL BE TOPSOILED, SEEDED, AND STABILIZED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY. EROSION CONTROL DEVICES WILL REMAIN IN PLACE UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED. SOIL STABILIZATION MEASURES SHALL CONFORM WITH THE MOST CURRENT VERSION OF THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL ("BLUE BOOK"). PERMANENT SEED MIX WILL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- 18. CONCRETE WASHOUTS DEPICTED ON PLANS ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD LOCATE WASHOUTS AS NECESSARY. FIELD LOCATED WASHOUTS SHALL BE LOCATED CONSTRUCTED IN ACCORDANCE WITH THE EM&CP AND SHALL BE A MINIMUM OF 100' FROM ADJACENT WETLANDS AND 200' FROM ANY EXISTING WELLS.
- 19. FOR SITES WHERE CONSTRUCTION ACTIVITIES TEMPORARILY CEASE IN THE WINTER, TEMPORARY AND PERMANENT SOIL STABILIZATION MEASURES WILL BE INSTALLED WITHIN 7 DAYS FROM THE DATE THE SOIL DISTURBING ACTIVITY CEASED. IF THE GROUND IS COVERED BY SIGNIFICANT AMOUNTS OF SNOW, WINTER RYE SHOULD BE USED FOR STABILIZATION (90-LBS PER ACRE).
- 20. MEASURES USED FOR DUST CONTROL SHALL FOLLOW THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL ("BLUE BOOK") FOR DUST CONTROL, PAGE 2.25. ONLY PLAIN WATER WILL BE USED FOR DUST SUPPRESSION.

#### HDD PLAN & PROFILE NOTES:

- 1. UNLESS NOTED OTHERWISE ON C-300 SERIES HDD PLAN AND PROFILES, EACH SITE INCLUDES TWO HDD BORES. BOTH BORES INCLUDE A 10" DIAMETER HDPE OR 8" FPVC CONDUIT FOR A HVDC ELECTRICAL TRANSMISSION CABLE. ONE OF THE BORES WILL ALSO INCLUDE A 3" CONDUIT BUNDLED IN THE PULLBACK BUNDLE FOR A TELECOMMUNICATION LINE.
- 2. MINIMUM HORIZONTAL SPACING BETWEEN CONDUIT 1 AND CONDUIT 2 SHALL BE MAINTAINED AT THE DESIGN LOCATION AND WITHIN SPECIFIED TOLERANCE AS DETERMINED BY ELECTRICAL ENGINEERING ON BEHALF OF THE OWNERS. IN CONSTRUCTION, THE HORIZONTAL SPACING SHALL BE CONTROLLED AND MAINTAINED SUCH THAT THE AS-BUILT SPACING SHALL NEVER BE CLOSER THAN THE SPECIFIED HORIZONTAL SPACING PRESENTED ON THE INDIVIDUAL HDD SHEET.
- 3. MAXIMUM VERTICAL DEPTH OF CONDUIT 1 AND CONDUIT 2 SHALL BE MAINTAINED AT THE DESIGN LOCATION AND WITHIN SPECIFIED TOLERANCE AS DETERMINED BY ELECTRICAL ENGINEERING ON BEHALF OF THE OWNERS.
- 4. HDD CONTRACTOR SHALL COORDINATE WITH OVERHEAD ELECTRIC OWNER/OPERATOR TO HAVE TEMPORARY PROTECTIVE SLEEVES INSTALLED ON OVERHEAD POWER LINES THAT CROSS THE ACCESS OR WORKING AREA OF THE WORK SITE.
- 5. SPT N-VALUES SHOWN ON THE C-300 SERIES DRAWINGS ARE NOT CORRECTED FOR SAMPLER SIZE OR HAMMER ENERGY. REFERNCE BORING LOGS AND GEOTECHNICAL REPORTS FOR ADDITIONAL INFORMATION.
- 6. HDD ENTRY PITS ARE SUBJECT TO RELOCATION WITHIN 5-FEET OF DESIGNED ENTRY POINT ON PLANS AND REMAIN WITHIN THE CONFINES OF THE SPECIFIED HDD WORK AREA.
- 7. HDD EXIT PITS ARE SUBJECT TO RELOCATION WITHIN 10-FEET OF DESIGNED EXIT POINT ON PLANS AND REMAIN WITHIN THE CONFINES OF THE SPECIFIED HDD WORK AREA.
- 8. HDD CONDUIT PIPE ASSEMBLY AND PULLBACK DIRECTION ARE SUBJECT TO CHANGE.
- 9. ALL BURIED UTILITY DEPTHS ARE APPROXIMATE. PRIOR TO ANY HDD CONSTRUCTION, EXCAVATION, EXPLORATORY BORING, OR UTILITY LOCATE EXCAVATION, CONTRACTOR MUST CONTACT 811, OBTAIN A PERMIT, MAINTAIN THE PERMIT CURRENT UNTIL CONTRACTOR WORK TASK HAS BEEN COMPLETED AND ABIDE BY ALL STATE EXCAVATION REQUIREMENTS. REPORT ALL CONFLICTING UTILITIES THAT REQUIRE MODIFICATION TO THE HDD DESIGN TO THE ENGINEER WITHIN 12 HOURS OF THE DISCOVERY.
- 10. THE MINIMUM SEPARATION DISTANCE FROM THE CLOSEST PROXIMITY OF ANY EXISTING SUBSURFACE UTILITY SHALL NOT BE LESS THAN 120 INCHES AS MEASURED FROM THE OUTSIDE EDGE OF THE UTILITY TO THE OUTSIDE EDGE OF THE FULLY CONSTRUCTED HDD BORE PATH UNLESS GREATER SEPARATION IS SHOWN ON THE C-300 SERIES DRAWINGS.
- 11. ALL COORDINATES REFERENCE NEW YORK STATE PLANE FOR THE APPROPRIATE ZONE AND ELEVATIONS REFERENCE NAD83. MEASUREMENTS ARE IN FEET.
- 12. SITE BOUNDRIES, ENVIRONMENTAL BARRIER LOCATION, AND ENTRY & EXIT LOCATIONS SHALL BE STAKED FOR THE HDD DRILLING TEAM TO REFERENCE DURING CONSTRUCTION.
- 13. HDD CONTRACTOR SHALL PROVIDE AN AS-BUILT PLAN AND PROFILE OF THE PILOT BORE PATH INDICATING COMPLIANCE WITH PROJECT SPECIFICATIONS AND FOR APPROVAL PRIOR TO INITIATING REAMING OPERATIONS. PROVIDE ACTUAL ENTRY & EXIT COORDINATES AND ELEVATIONS ON THE AS-BUILT PLAN.
- 14. HDD CONTRACTOR TO PLACE A MECHANICAL TEMPORARY CAP ON EACH END OF THE INSTALLED CONDUITS THAT WILL BE SUFFICIENT TO PROTECT THE INSTALLATION FROM DAMAGE OR INTRUSION OF WATER OR OTHER DETRITAL MATERIAL INTO THE CONDUITS. DUCT TAPE OR PLASTIC BAGS ARE NOT ACCEPTIBLE AS A MECHANICAL TEMPORARY CAP.

#### **DISTURBANCE NOTES:**

- 1. THE PROPOSED DISTURBANCE FOR THE TRENCH WILL BE LIMITED TO THE WIDTH OF THE TRENCH SECTIONS DEPICTED ON C-621 INCLUDING THE OPTION TO BENCH OR SLOPE TRENCH WHERE SPACE IS AVAILABLE AND TRENCH IS NOT LOCATED IN A ROADWAY OR IN PAVEMENT.
- 2. TEMPORARY ACCESS AND WORK AREAS DEPICTED IN THESE PLANS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND CHARACTER TO THE EXTENT PRACTICABLE, UNLESS DOING SO WOULD INTERFERE WITH THE SAFE OR RELIABLE OPERATION AND MAINTENANCE OF THE PROJECT. RESTORATION ACTIVITIES MAY VARY WITH THE SPECIFIC AREA TO BE RESTORED BUT WILL CONSIST PREDOMINANTLY OF RESTORING TOPOGRAPHY TO ORIGINAL GRADIENTS AND RESEEDING EXCAVATED AREAS OVER THE TRENCH AS IDENTIFIED IN THE DETAIL SHEETS AND THE EMCP NARRATIVE.



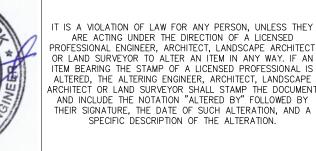


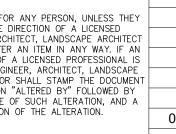


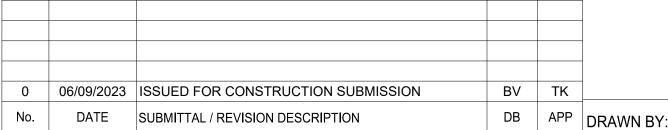












GENERAL NOTES 1 OF 2

**DESIGNED BY:** 

APPROVED BY:

CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 9 (PACKAGE 5B) - CSX: SELKIRK RAIL YARD BYPASS

DRAWING NO.

KIEWIT PROJECT NO.

21162

G-002

AS SHOWN DATI 06/09/2023 0 SH.NO.

- THE CIVIL ENGINEER OF RECORD (EOR) LICENSED PROFESSIONAL ENGINEER SEAL AND SIGNATURE ON THE PLAN AND PROFILE KEY MAP SHEET. SPLICE LOCATION TABLE SHEET. PLAN AND PROFILE SHEETS. TEMP OFF-SITE ACCESS ROADS SHEETS. AND TEMP OFF-SITE ACCESS ROUTES SHEETS IS LIMITED TO THE SCOPE OF DESIGN AS OUTLINED BELOW:
- A. THE CIVIL EOR DESIGN SCOPE INCLUDES THE FOLLOWING:
- a. HORIZONTAL AND VERTICAL GEOMETRY OF THE TRENCH AND CONDUITS
- b. GEOMETRIC DESIGN OF TEMPORARY ROADS AND WORK AREAS
  - 1. THESE PLANS DEPICT THE GENERAL LAYOUT AND GRADING EXTENTS OF THE ROADS AND WORK AREAS. GEOMETRIC INFORMATION FOR TEMPORARY ROADS AND WORK AREAS IS NOT SHOWN IN THESE PLANS AND WILL BE AVAILABLE UPON REQUEST IN EXCEL OR CIVIL 3D 2020 DIGITAL FORMAT.
- 2. THE CIVIL EOR IS NOT RESPONSIBLE FOR THE ELECTRICAL DESIGN DEPICTED IN THESE PLANS.
- A. THE CERTIFICATE HOLDER (CHPE LLC) IS RESPONSIBLE FOR THE FOLLOWING ELECTRICAL DESIGN DEPICTED ON THESE PLANS INCLUDING THE FOLLOWING:
- a. DESIGN ASSOCIATED WITH THE ELECTRICAL TRANSMISSION LINE AND APPURTENANCES INCLUDING BUT NOT LIMITED TO PUBLIC SAFETY CONSIDERATIONS AND RISK ASSESSMENT(S); MATERIAL SELECTION; AND INTERFERENCE, THERMAL, AND STRAY CURRENT EFFECTS.
- b. DESIGN OF THE HVDC (HIGH VOLTAGE DIRECT CURRENT) CABLE, FIBER OPTIC CABLE, SPLICE CONNECTIONS, AND CABLE POLARITY
- c. CONDUIT SPACING (SEPARATION BETWEEN THE CABLES AND CONDUITS, AND OTHER CLEARANCE REQUIREMENTS FOR THE CABLE OR CONDUIT): DETERMINING MINIMUM OR MAXIMUM DEPTH OF COVER FOR THE CONDUITS OR CABLE: AND MATERIAL SELECTION OF TRENCH BACKFILL OR CONDUIT
- B. THE CIVIL EOR IS ADDITIONALLY NOT RESPONSIBLE FOR THE FOLLOWING DESIGN:
- a. CABLE PULLING FORCE CALCULATIONS OR INSTALLATION OF CABLES INCLUDING CABLE PULLING DIRECTION
- b. VERIFYING ACTUAL (3-DIMENSIONAL) CABLE LENGTHS FOR PURPOSES OF ORDERING MATERIALS
- c. ANY RISK ASSESSMENTS RELATED TO THE ELECTRICAL DESIGN INCLUDING THOSE NOTED IN THE CERTIFICATE HOLDER (CHPE LLC) RESPONSIBILITIES ABOVE.
- THE MAJORITY OF STORM WATER MANAGEMENT AND EROSION & SEDIMENT CONTROL DESIGN IS INCLUDED IN THE EROSION AND SEDIMENT CONTROL PLANS AND DETAILS; THE REMAINDER IS INCLUDED IN THE TEMP OFF-SITE ACCESS ROAD PLANS AND WILL BE SEALED BY BOTH THE CIVIL AND DRAINAGE EOR. THE CIVIL EOR DESIGN SCOPE IS DEFINED IN NOTES 1 AND 2 ABOVE; THE DRAINAGE EOR IS RESPONSIBLE FOR STORM WATER MANAGEMENT AND EROSION & SEDIMENT CONTROL DESIGN INCLUDED IN THE TEMP OFF-SITE ACCESS ROAD PLANS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE MINIMUM ALLOWABLE BENDING RADIUS OF THE CONDUITS MEETS THE MANUFACTURER'S REQUIREMENTS.

#### NATIONAL GRID NOTES

- THE CONTRACTOR SHALL OBSERVE AND ABIDE BY THE APPLICABLE POWER LINE SAFETY REGULATIONS 29 C.F.R. § 1926.1406
- THE CONTRACTOR SHALL TRAIN EMPLOYEES WORKING AS DEDICATED SPOTTERS IN ACCORDANCE WITH 29 C.F.R. § 1926.1408(G)(2).
- CONSTRUCTION UNDER TRANSMISSION LINES REQUIRES A DEDICATED SPOTTER, AS APPLICABLE.
- THE CONTRACTOR SHALL SUBMIT QUALIFIED INDIVIDUALS' RESUMES TO NATIONAL GRID.
- A NATIONAL GRID GAS REPRESENTATIVE SHALL BE ON SITE WHILE CONSTRUCTION ACTIVITIES OCCUR NEAR NATIONAL GRID GAS PIPELINE CROSSINGS.
- THE CONTRACTOR SHALL EXPOSE NATIONAL GRID PIPELINES COMPLETELY (360-DEGREE VIEW OF THE PIPELINE) AT EACH CROSSING LOCATION AND LEAVE THE PIPELINE EXPOSED WHILE ANY HDD PASSES BELOW NATIONAL GRID'S PIPELINE.









IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION	BV	TK

DATE SUBMITTAL / REVISION DESCRIPTION

CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM GENERAL NOTES 2 OF 2

KIEWIT PROJECT NO. 21162

**G-003** 

DRAWING NO.

DB APP DRAWN BY: AR DESIGNED BY: BV APPROVED BY: TK REV. NO.

AS SHOWN DATE

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT SAFETY MEASURES AND/OR AN OPERATIONAL SAFETY PLAN DURING CONSTRUCTION TO PROTECT PERSONNEL AND VEHICLES FROM STEEP SLOPES OR HAZARDS ADJACENT TO ROADS AND WORK AREAS. THIS DESIGN PROVIDES TEMPORARY ACCESS AND WORK AREAS FOR CONSTRUCTION OPERATIONS FOR LOW-SPEED CONSTRUCTION TRAFFIC WITHIN A SITE THAT IS RESTRICTED FROM PUBLIC ACCESS. A. THESE PLANS DO NOT INCLUDE COMPREHENSIVE ROADSIDE SAFETY MEASURES OR HARDWARE, INCLUDING BUT NOT LIMITED TO: BARRIERS, GUARDRAIL, SIGNING, GATES, DELINEATORS, AND SAFETY BERMS. B. ACCESS ROADS ARE DESIGNED FOR A DESIGN SPEED OF 15 MPH FOR CRUSHED ROCK SURFACING (GRAVEL/AGGREGATE SURFACING). IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE VEHICLES ARE ADEQUATELY EQUIPPED FOR ROAD CONDITIONS, AND ROADS ARE ADEQUATELY MAINTAINED FOR SAFETY. C. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE STABILITY OF AND/OR SETBACKS FROM STEEP SLOPES, SHORING, AND WALLS ADJACENT TO VEHICULAR TRAFFIC OR NEAR PLACEMENT OF CONSTRUCTION EQUIPMENT (OR MATERIALS) AS DETERMINED BY A GEOTECHNICAL ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM EXISTING STRUCTURES, PIPES, ROADS, ROUTES, OR OTHER PAVED AREAS ARE ADEQUATE FOR CONSTRUCTION TRAFFIC AND VEHICLE LOADING. AS DESCRIBED IN THE EM&CP DOCUMENTS, THE DESIGN HEREIN IS BASED ON GRADES BEING RESTORED TO PRE-CONSTRUCTION CONDITIONS AFTER CONSTRUCTION HAS BEEN COMPLETED.

- 1. AUTHORITY OF CSX ENGINEER:
- 1.a. THE CSX REPRESENTATIVE SHALL HAVE FINAL AUTHORITY IN ALL MATTERS AFFECTING THE SAFE MAINTENANCE OF CSX OPERATIONS AND CSX PROPERTY, AND HIS OR HER APPROVAL SHALL BE OBTAINED BY THE CHPE LLC OR ITS CONTRACTOR FOR METHODS OF CONSTRUCTION TO AVOID INTERFERENCE WITH CSX OPERATIONS IN CSX PROPERTY AND ALL OTHER MATTERS CONTEMPLATED BY THE AGREEMENT AND THESE SPECIAL PROVISIONS.
- 2. INTERFERENCE WITH CSX OPERATION
- 2.a. CHPE LLC OR ITS CONTRACTOR SHALL ARRANGE AND CONDUCT ITS WORK SO THAT THERE WILL BE NO INTERFERENCE WITH CSX OPERATIONS, INCLUDING, BUT NOT LIMITED TO: TRAIN, SIGNAL, TELEPHONE AND TELEGRAPHIC SERVICES, OR DAMAGE TO CSX'S PROPERTY, OR TO POLES, WIRES, AND OTHER FACILITIES OF TENANTS ON CSX'S PROPERTY OR RIGHT-OF-WAY. CHPE LLC OR ITS CONTRACTOR SHALL STORE MATERIALS SO AS TO PREVENT TRESPASSERS FROM CAUSING DAMAGE TO TRAINS, OR CSX PROPERTY. WHENEVER WORK IS LIKELY TO AFFECT THE OPERATIONS OR SAFETY OF TRAINS, AN APPROVAL OF THE METHOD OF WORK BY CSXT OR ITS REPRESENTATIVE SHALL NOT RELIEVE CHPE LLC OR ITS CONTRACTOR FROM LIABILITY IN CONNECTION WITH SUCH WORK.
- 2.b. IF CONDITIONS ARISING FROM OR IN CONNECTION WITH THE PROJECT REQUIRE THAT IMMEDIATE AND UNUSUAL PROVISIONS BE MADE TO PROTECT TRAIN OPERATIONS OR CSX'S PROPERTY, CHPE LLC OR ITS CONTRACTOR SHALL MAKE SUCH PROVISION IN COORDINATION WITH CSXT OR ITS REPRESENTATIVE. IF THE CSX REPRESENTATIVE DETERMINES THAT SUCH PROVISIONS IS INSUFFICIENT, CSX MAY, AT THE EXPENSE OF CHPE LLC OR ITS CONTRACTOR, REQUIRE OR PROVIDE SUCH PROVISION AS MAY BE DEEMED NECESSARY, OR CAUSE THE WORK TO CEASE IMMEDIATELY.
- 2.c. SHOULD WORK ACTIVITIES BE REQUIRED WITHIN CSX PROPERTY OR RIGHT-OF-WAY, THE CONTRACTOR SHALL REQUEST CSX TO LOCATE ANY BURIED UTILITIES OR FACILITIES (AIR LINES, WELLS, ETC.). A WRITTEN REQUEST SHALL BE DELIVERED TO THE CSX REPRESENTATIVE AT LEAST FIVE (5) DAYS IN ADVANCE. THE TRADITIONAL "ONE CALL" UTILITY LOCATE SERVICES ARE NOT RESPONSIBLE FOR LOCATING ANY CSX UNDERGRADE UTILITIES OR FACILITIES. IT IS THE RESPONSIBILITY OF THE CHPE LLC OR ITS CONTRACTOR TO COORDINATE WITH CSXT OR ITS REPRESENTATIVE TO LOCATE ANY UNDERGRADE CSXT UTILITIES OR FACILITIES. 'DIG SAFE' PROCEDURES ARE TO BE FOLLOWED CONSISTENT WITH THE EM&CP NARRATIVE REPORT IN ADDITION TO THE ABOVE CSX UTILITY REQUIREMENTS.
- INSURANCE:
- THE CONTRACTOR SHALL NOT BE PERMITTED TO WORK ON, OR HAVE POTENTIAL TO FOUL, CSX PROPERTY OR RIGHT-OF-WAY UNTIL IT HAS COMPLIED WITH THE FOLLOWING CONDITIONS:
- 3.a. NOTIFY CSX IN WRITING OF THE DATE THAT IT INTENDS TO COMMENCE WORK ON THE PROJECT. SUCH NOTICE MUST BE RECEIVED BY CSX AT LEAST TEN (10) BUSINESS DAYS IN ADVANCE OF THE DATE CHPE LLC OR ITS CONTRACTOR PROPOSES TO BEGIN WORK ON CSX PROPERTY. THE NOTICE MUST REFER TO THIS AGREEMENT BY DATE. IF FLAGGING SERVICE IS REQUIRED, SUCH NOTICE SHALL BE SUBMITTED AT LEAST THIRTY (30) BUSINESS DAYS IN ADVANCE OF THE DATE SCHEDULED TO COMMENCE THE WORK.
- 3.b. OBTAIN AUTHORIZATION FROM THE CSX REPRESENTATIVE TO BEGIN WORK ON CSX PROPERTY. ONCE AUTHORIZATION IS GIVEN, CHPE LLC OR CONTRACTOR SHALL PROVIDE A DETAILED SCHEDULE TO INCLUDE MEANS AND METHODS FOR REVIEW, COMMENT AND/OR APPROVAL PRIOR TO COMMENCEMENT OF WORK. CSX WILL IN TURN PROVIDE DIRECTION REGARDING SPECIFIC CONDITIONS WITH WHICH IT MUST COMPLY.
- 3.c. OBTAIN FROM CSX THE NAMES, ADDRESSES AND TELEPHONE NUMBERS OF CSX'S PERSONNEL WHO MUST RECEIVE NOTICE UNDER PROVISIONS IN THE AGREEMENT. WHERE MORE THAN ONE INDIVIDUAL IS DESIGNATED, THE AREA OF RESPONSIBILITY OF EACH SHALL BE SPECIFIED.
- 4. WORK FOR THE BENEFIT OF THE CONTRACTOR:
- 4.a. UNLESS OTHERWISE AGREED UPON, CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COSTS AND PERMIT REQUIREMENTS FOR RELOCATION OR MODIFICATION OF EXISTING THIRD PARTY FACILITIES AND MAY REQUIRE AN EM&CP CHANGE.
- 4.b. SHOULD CHPE LLC OR CONTRACTOR DESIRE ANY CHANGES IN ADDITION TO THE ABOVE, THEN IT SHALL MAKE SEPARATE ARRANGEMENTS WITH CSX FOR SUCH CHANGES TO BE ACCOMPLISHED AT THE CHPE LLC OR CONTRACTOR'S EXPENSE.
- 5. HAUL ACROSS RAILROAD:
- 5.a. IF CHPE LLC OR CONTRACTOR DESIRES ACCESS ACROSS CSX PROPERTY OR TRACKS AT OTHER THAN AN EXISTING AND OPEN PUBLIC ROAD CROSSING IN OR INCIDENT TO CONSTRUCTION OF THE PROJECT, THE CHPE LLC OR CONTRACTOR MUST FIRST OBTAIN THE PERMISSION OF CSX AND SHALL EXECUTE AN AGREEMENT, WHEREIN CHPE LLC OR CONTRACTOR AGREES TO BEAR ALL COSTS AND LIABILITIES RELATED TO SUCH ACCESS.
- 5.b. TEMPORARY CONSTRUCTION HAUL ROADS ACROSS CSX TRACKS WILL REQUIRE A SEPARATE APPLICATION AND PAYMENT TO CSX PROPERTY SERVICES. AGREEMENT EXTENSIONS REQUIRE ADDITIONAL PAYMENT. ACTUAL COST IS VARIABLE AND
- 5.c. CHPE LLC AND CONTRACTOR SHALL NOT CROSS CSX'S PROPERTY AND TRACKS WITH VEHICLES OR EQUIPMENT OF ANY KIND OR CHARACTER, EXCEPT AT SUCH CROSSING OR CROSSINGS AS MAY BE PERMITTED PURSUANT TO THIS SECTION.
- COOPERATION AND DELAYS
- 6.a. CHPE LLC OR CONTRACTOR SHALL ARRANGE A SCHEDULE WITH CSX FOR ACCOMPLISHING STAGE CONSTRUCTION INVOLVING WORK BY CSX. IN ARRANGING ITS SCHEDULE, CHPE LLC OR CONTRACTOR SHALL ASCERTAIN, FROM CSX. THE LEAD TIME REQUIRED FOR ASSEMBLING CREWS AND MATERIALS AND SHALL MAKE DUE ALLOWANCE THEREFORE.
- 6.b. CHPE LLC OR CONTRACTOR MAY NOT CHARGE ANY COSTS OR SUBMIT ANY CLAIMS AGAINST CSX FOR HINDRANCE OR DELAY CAUSE BY RAILROAD TRAFFIC: WORK DONE BY CSX OR OTHER DELAY INCIDENT TO OR NECESSARY FOR SAFE MAINTENANCE OF RAILROAD TRAFFIC: OR FOR ANY DELAYS DUE TO COMPLIANCE WITH THESE SPECIAL PROVISIONS.
- 6.c. CHPE LLC AND CONTRACTOR SHALL COOPERATE WITH OTHERS PARTICIPATING IN THE CONSTRUCTION OF THE PROJECT TO THE END THAT ALL WORK MAY BE CARRIED ON TO THE BEST ADVANTAGE.
- 6.d. CHPE LLC AND CONTRACTOR UNDERSTAND AND AGREE THAT CSX DOES NOT ASSUME ANY RESPONSIBILITY FOR WORK PERFORMED BY OTHERS IN CONNECTION WITH THE PROJECT. CHPE LLC AND CONTRACTOR FURTHER UNDERSTAND AND AGREE THAT THEY SHALL HAVE NO CLAIM WHATSOEVER AGAINST CSX FOR ANY INCONVENIENCE, DELAY OR ADDITIONAL COST INCURRED BY CHPE LLC OR CONTRACTOR ON ACCOUNT OF OPERATIONS BY OTHERS.

- STORAGE OF MATERIALS AND EQUIPMENT:
- 7.a. CHPE LLC AND CONTRACTOR SHALL NOT STORE THEIR MATERIALS OR EQUIPMENT ON CSX'S PROPERTY OR WHERE THEY MAY POTENTIALLY INTERFERE WITH CSX'S OPERATIONS, UNLESS CHPE LLC OR CONTRACTOR HAS RECEIVED CSX REPRESENTATIVE'S PRIOR WRITTEN PERMISSION. CHPE LLC AND CONTRACTOR UNDERSTAND AND AGREE THAT CSX WILL NOT BE LIABLE FOR ANY DAMAGE TO SUCH MATERIALS AND EQUIPMENT FROM ANY CAUSE AND THAT CSX MAY MOVE, OR REQUIRE CHPE LLC OR CONTRACTOR TO MOVE, SUCH MATERIAL AND EQUIPMENT AT CHPE LLC'S OR CONTRACTOR'S SOLE EXPENSE. TO MINIMIZE THE POSSIBILITY OF DAMAGE TO THE RAILROAD TRACKS RESULTING FROM THE UNAUTHORIZED USE OF EQUIPMENT, ALL GRADING OR OTHER CONSTRUCTION EQUIPMENT THAT IS LEFT PARKED NEAR THE TRACKS UNATTENDED BY WATCHMEN SHALL BE IMMOBILIZED TO THE EXTENT FEASIBLE SO THAT IT CANNOT BE MOVED BY UNAUTHORIZED
- 8. CONSTRUCTION PROCEDURES

- 8.a. CONSTRUCTION WORK ON CSX PROPERTY SHALL BE SUBJECT TO CSX'S INSPECTION AND APPROVAL.
- 8.b. CONSTRUCTION WORK ON CSX PROPERTY SHALL BE IN ACCORD WITH CSX'S CONSTRUCTION SUBMISSION CRITERIA, LATEST EDITION AND CSX'S WRITTEN OUTLINE OF SPECIFIC CONDITIONS AND WITH THESE SPECIAL PROVISIONS.
- 8.c. CONTRACTOR SHALL OBSERVE THE TERMS AND RULES OF THE CSX SAFE WAY MANUAL, WHICH CHPE LLC AND CONTRACTOR SHALL BE REQUIRED TO OBTAIN FROM CSX, AND IN ACCORD WITH ANY OTHER INSTRUCTIONS FURNISHED BY CSX OF CSX'S REPRESENTATIVE. FAILURE TO COMPLY WITH THE TERMS OF THE AGREEMENT AND CSX RULES CAN RESULT IN MANDATORY RAILROAD WORKER PROTECTIVE TRAINING FOR THE CHPE LLC, CONTRACTOR AND ITS SUBCONTRACTORS.

- 8.d. CHPE LLC OR CONTRACTOR SHALL OBTAIN CSX REPRESENTATIVE'S AND CHPE LLC REPRESENTATIVES PRIOR WRITTEN APPROVAL FOR USE OF EXPLOSIVES ON OR ADJACENT TO CSX PROPERTY. IF PERMISSION FOR USE OF EXPLOSIVES IS GRANTED, CHPE LLC OR CONTRACTOR MUST COMPLY WITH THE FOLLOWING CODE:
- 8.d.1. BLASTING SHALL BE DONE WITH LIGHT CHARGES UNDER THE DIRECT SUPERVISION OF A RESPONSIBLE OFFICER OR EMPLOYEE OF CHPE LLC OR CONTRACTOR
- ELECTRIC DETONATING FUSES SHALL NOT BE USED BECAUSE OF THE POSSIBILITY OF PREMATURE EXPLOSIONS RESULTING FROM OPERATION OF TWO-WAY TRAIN RADIOS.
- NO BLASTING SHALL BE DONE WITHOUT THE PRESENCE OF AN AUTHORIZED REPRESENTATIVE OF CSX. AT LEAST THIRTY (30) DAYS' ADVANCE NOTICE TO CSX REPRESENTATIVES IS REQUIRED TO ARRANGE FOR THE PRESENCE OF AN AUTHORIZED CSX REPRESENTATIVE AND ANY FLAGGING THAT CSX MAY REQUIRE.
- 8.d.4. CHPE LLC OR CONTRACTOR MUST HAVE AT THE PROJECT SITE ADEQUATE EQUIPMENT, LABOR AND MATERIALS, AND ALLOW SUFFICIENT TIME TO (1) CLEAN UP (AT CHPE LLC'S EXPENSE) DEBRIS RESULTING FROM THE BLASTING WITHOUT ANY DELAY TO TRAINS; AND (2) CORRECT (AT CHPE LLC'S EXPENSE) ANY TRACK MISALIGNMENT OR OTHER DAMAGE TO CSX'S PROPERTY RESULTING FROM THE BLASTING, AS DIRECTED BY CSX REPRESENTATIVE, WITHOUT DELAY TO TRAINS. IF CHPE LLC'S OR CONTRACTOR'S ACTIONS RESULT IN DELAY OF ANY TRAINS, INCLUDING AMTRAK PASSENGER TRAINS, CHPE LLC SHALL BEAR THE ENTIRE COST THEREOF.
- CHPE LLC AND CONTRACTOR SHALL NOT STORE EXPLOSIVES ON CSX PROPERTY.
- CSX REPRESENTATIVE WILL
- 9.a. DETERMINE THE APPROXIMATE LOCATION OF TRAINS AND ADVISE CHPE LLC OR CONTRACTOR OF THE APPROXIMATE AMOUNT OF TIME AVAILABLE FOR THE BLASTING OPERATION AND CLEAN-UP.
- 9.b. HAVE THE AUTHORITY TO ORDER DISCONTINUANCE OF BLASTING IF, IN HIS OR HER OPINION, BLASTING IS TOO HAZARDOUS OR IS NOT IN ACCORD WITH THESE SPECIAL PROVISIONS.
- 10.a. SOIL EXCAVATION WITHIN CSX PROPERTY IS ANTICIPATED, AND IF SAID SOILS CANNOT REMAIN ON CSX PROPERTY DURING AND AFTER CONSTRUCTION, THEN CSX ENVIRONMENTAL MUST BE CONTACTED AT LEAST THIRTY (30) DAYS IN ADVANCE OF THE WORK IN ORDER TO SCHEDULE SAMPLING, CLASSIFICATION AND DISPOSITION OF MATERIAL. EXCAVATED MATERIAL IS PROHIBITED FROM BEING REMOVED FROM CSX PROPERTY, OR RIGHTS-OF-WAY, WITHOUT EXPRESSED WRITTEN DIRECTION FROM CSX. SHOULD FINAL DISPOSITION REQUIRE DISPOSAL OF EXCAVATED MATERIAL, CSX SHALL HAVE SOLE DISCRETION OF MEANS AND LOCATION OF SAID DISPOSAL. THE MEANS AND LOCATION OF DISPOSAL SHALL BE IN COMPLIANCE WITH THE EM&CP GUIDELINES, CERTIFICATE REQUIREMENTS, AND BEST MANAGEMENT PRACTICES AS APPROVED BY NYSDPS. CHPE LLC WILL BEAR ALL COSTS ASSOCIATED WITH SAMPLING, STAGING AND SUBSEQUENT DISPOSAL IF DEEMED NECESSARY. CONTRACTOR WILL BE REQUIRED TO OBTAIN ALL DISPOSAL TICKETS / DOCUMENTATION AND PROVIDE THE INFORMATION TO THE CSX REPRESENTATIVE. CSX WILL NOT BEAR ANY COSTS ASSOCIATED WITH THIS WORK.
- 10.b. ANY WASTE MATERIALS GENERATED BY THE PROJECT, INCLUDING BUT NOT LIMITED TO WASHING WITH CLEANING SOLVENTS, BLASTING, SCRAPING, BRUSHING AND PAINTING OPERATIONS, SHALL BE THE RESPONSIBILITY OF THE CHPE LLC OR ITS CONTRACTOR AND SHALL BE CONTAINED, COLLECTED AND PROPERLY DISPOSED OF BY THE CHPE LLC OR ITS CONTRACTOR. CHPE LLC AND ITS CONTRACTOR AGREE TO FULLY COMPLY WITH ALL FEDERAL, STATE, AND LOCAL ENVIRONMENTAL LAWS, REGULATIONS, STATUTES AND ORDINANCES AT ALL TIMES IN ACCORDANCE WITH THIS EM&CP.
- 11. MAINTENANCE OF DITCHES ADJACENT TO CSX TRACKS
- 11.a. CHPE LLC OR CONTRACTOR SHALL MAINTAIN ALL DITCHES AND DRAINAGE STRUCTURES FREE OF SILT OR OTHER OBSTRUCTIONS THAT MAY RESULT FROM THEIR OPERATIONS. IN ADDITION, CHPE LLC OR CONTRACTOR SHALL MAINTAIN ALL CSX PROPERTY OR RIGHT-OF-WAY IMPACTED BY PROJECT OPERATIONS INCLUDING BUT NOT LIMITED TO: ACCESS OR HAUL ROADS, STAGING AREAS, PARKING LOTS IN A MANNER THAT PROVIDES CSX FREE AND CLEAR ACCESS TO FACILITIES, MATERIALS WHILE PROVIDING ACCEPTABLE DRIVING SURFACES FREE OF DRAINAGE IMPACTS OR REDUCED CSX CAPACITY. CHPE LLC OR CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES DURING CONSTRUCTION AND USE METHODS THAT ACCORD WITH APPLICABLE STATE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, INCLUDING EITHER (1) SILT FENCE; (2) HAY OR STRAW BARRIER; (3) BERM OF TEMPORARY DITCHES; (4) SEDIMENT BASIN; AGGREGATE CHECKS; AND (6) CHANNEL LINING. ALL SUCH MAINTENANCE AND REPAIR OF DAMAGES DUE TO CHPE LLC'S OR CONTRACTORS OPERATIONS SHALL BE PERFORMED AT CHPE LLC'S EXPENSE.

- 12. TRACK PROTECTION / INSPECTION SERVICE
- 12.a. CSX HAS SOLE AUTHORITY TO DETERMINE THE NEED FOR TRACK PROTECTION REQUIRED TO PROTECT ITS OPERATIONS AND PROPERTY. IN GENERAL, TRACK PROTECTION WILL BE REQUIRED WHENEVER CHPE LLC OR CONTRACTOR OR THEIR EQUIPMENT ARE, OR ARE LIKELY TO BE, WORKING WITHIN FIFTY (50) FEET OF LIVE TRACK OR OTHER TRACK CLEARANCES SPECIFIED BY CSX, OR OVER TRACKS.
- 12.b. CHPE LLC SHALL REIMBURSE CSX DIRECTLY FOR ALL COSTS OF TRACK PROTECTION THAT IS REQUIRED ON ACCOUNT OF CONSTRUCTION WITHIN CSX PROPERTY SHOWN IN THE PLANS, OR THAT IS COVERED BY AN APPROVED PLAN REVISION, SUPPLEMENTAL AGREEMENT OR CHANGE ORDER.
- 12.c. CHPE LLC OR CONTRACTOR SHALL GIVE A MINIMUM OF THIRTY (30) DAYS' ADVANCE NOTICE TO CSX REPRESENTATIVE FOR ANTICIPATED NEED FOR TRACK PROTECTION. NO WORK SHALL BE UNDERTAKEN UNTIL THE FLAG PERSON(S) IS/ARE AT THE JOB SITE. IF IT IS NECESSARY FOR CSX TO ADVERTISE A FLAGGING JOB FOR BID, IT MAY TAKE UP TO NINETY (90) DAYS TO OBTAIN THIS SERVICE AND CSX SHALL NOT BE LIABLE FOR THE COST OF DELAYS ATTRIBUTED TO OBTAINING SUCH
- 12.d. CSX SHALL HAVE THE RIGHT TO ASSIGN AN INDIVIDUAL TO THE SITE OF THE PROJECT TO PERFORM INSPECTION SERVICE WHENEVER, IN THE OPINION OF CSX REPRESENTATIVE, SUCH INSPECTION MAY BE NECESSARY. CHPE LLC SHALL REIMBURSE CSX FOR THE COSTS INCURRED BY CSX FOR SUCH INSPECTION SERVICE. INSPECTION SERVICE SHALL NOT RELIEVE CHPE LLC OR CONTRACTOR FROM LIABILITY.
- 12.e. CSX SHALL RENDER INVOICES FOR, AND CHPE LLC SHALL PAY FOR, THE ACTUAL PAY RATE OF THE FLAG PERSON(S) AND INSPECTORS USED, PLUS STANDARD ADDITIVES, WHETHER THAT AMOUNT IS ABOVE OR BELOW THE RATE PROVIDED IN THE ESTIMATE. IF THE RATE OF PAY THAT IS TO BE USED FOR INSPECTOR OR FLAGGING SERVICE IS CHANGED BEFORE THE WORK IS STARTED OR DURING THE PROGRESS OF THE WORK, WHETHER BY LAW OR AGREEMENT BETWEEN CSX AND ITS EMPLOYEES, OR IF THE TAX RATES ON LABOR ARE CHANGED, BILLS WILL BE RENDERED BY CSX AND PAID BY CHPE LLC USING THE NEW RATES AND CONTRACTOR SHALL PERFORM THEIR OPERATIONS THAT REQUIRE TRACK PROTECTION OR INSPECTION SERVICE IN SUCH A MANNER AND SEQUENCE THAT THE COST OF SUCH WILL BE AS ECONOMICAL AS POSSIBLE.
- 13. UTILITY FACILITIES ON CSX PROPERTY
- 13.a. CHPE LLC SHALL ARRANGE, UPON APPROVAL FROM CSX, TO HAVE ANY UTILITY FACILITIES ON OR OVER CSX PROPERTY CHANGED AS MAY BE NECESSARY TO PROVIDE CLEARANCES FOR THE PROPOSED FACILITIES.
- 14. CLEAN-UP
- 14.a. CHPE LLC OR CONTRACTOR, UPON COMPLETION OF THE PROJECT, SHALL REMOVE AND DISPOSE FROM CSX'S PROPERTY ANY TEMPORARY CONSTRUCTION WORK. ANY TEMPORARY EROSION CONTROL MEASURES USED TO CONTROL DRAINAGE. ALL MACHINERY, EQUIPMENT, SURPLUS MATERIALS, FALSEWORK, RUBBISH, OR TEMPORARY BUILDINGS BELONGING TO CHPE LLC OR CONTRACTOR. CHPE LLC OR CONTRACTOR, UPON COMPLETION OF THE PROJECT, SHALL LEAVE CSX PROPERTY IN KIND OR BETTER CONDITION, SATISFACTORY TO THE CSX REPRESENTATIVE.
- 15. FAILURE TO COMPLY
- 15.a. IF CHPE LLC OR CONTRACTOR VIOLATE OR FAIL TO COMPLY WITH ANY OF THE REQUIREMENTS OF THESE SPECIAL PROVISIONS, (A) CSX MAY REQUIRE CHPE LLC AND/OR CONTRACTOR TO VACATE CSX PROPERTY; AND (B) CSX MAY WITHHOLD MONIES DUE CHPE LLC AND/OR CONTRACTOR; (C) CSX MAY REQUIRE CHPE LLC TO WITHHOLD MONIES DUE CONTRACTOR; AND (D) CSX MAY CURE SUCH FAILURE AND THE CHPE LLC SHALL REIMBURSE CSX FOR THE COST OF CURING SUCH FAILURE.
- 16. FENCING NOTES
- 16.a. ALL MATERIALS USED FOR THE FENCE AND GATE CONSTRUCTION SHALL CONFORM TO AASHTO M 181.
- 16.b. MATERIAL FOR THE FENCING SHALL BE AASHTO M 181 TYPE I, II, III OR IV.
- 16.c. GRADE 2 STEEL POSTS, RAILS, AND GATE FRAMES SHALL BE USED UNLESS OTHERWISE NOTED ON THE PLANS. THE TOP RAILS AND COMPRESSION BRACES SHALL CONSIST OF GRADE 2 STEEL.
- 16.d. THE FABRIC SHALL BE AASHTO TYPE I, CLASS D, 9 GAUGE, OR APPROVED EQUAL.
- 16.e. THE MINIMUM PIPE SIZES FOR FENCE COMPONENTS SHALL BE AS FOLLOWS:

COMPONENT	FENCE INDUSTRY O.D. (GRADE 2)	NOMINAL PIPE SIZE I.D.
LINE POSTS	2-1/2 INCH	2 INCH
GATE POSTS	4 INCH	3-1/2 INCH
CORNER POSTS	3 INCH	2-1/2 INCH
TOP RAILS	1-5/8 INCH	1-1/4 INCH
COMPRESSION BRACES	1-5/8 INCH	1-1/4 INCH
COMI RESSION BRACES	1 0/0 111011	1 1/4 111011

- 16.f. ALL POSTS SHALL BE CROWNED WITH AN APPROVED TOP SO DESIGNED AS TO FIT SECURELY TO THE TOP OF THE POST AND CARRY THE TOP RAIL.
- 16.g. CONCRETE FOR POST FOUNDATIONS SHALL HAVE MINIMUM 28 DAY STRENGTH OF 2800 PSI.
- 16.h. TENSION RODS SHALL BE 3/8 INCH ROUND RODS WITH DROP FORGED TURNBUCKLES OR OTHER SIMILAR TYPE OF
- 16.i. FENCE FABRIC SHALL BE WOVEN INTO AN APPROXIMATELY 2 INCH DIAMOND MESH. TOP AND BOTTOM SELVAGES ARE TO
- 16.j. COUPLING OR EXPANSION SLEEVES SHALL BE OUTSIDE SLEEVE TYPE AND BE AT LEAST SIX (6) INCHES LONG.
- 16.k. FABRIC BANDS SHALL BE NOT LESS THAN 1/8 INCH X 3/4 INCH IN SECTIONS. STRETCH BARS SHALL BE NOT LESS THAN 1/4 INCH x 3/4 INCH IN SECTION. TIE WIRE SHALL BE 9 GAGE.



Champlain Hudson **Power Express** 



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS TH ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHI OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCA ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUM AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND SPECIFIC DESCRIPTION OF THE ALTERATION.

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CHAMPLAIN HUDSON POWER EXPRESS

DB | APP | DRAWN BY:

06/09/2023 ISSUED FOR CONSTRUCTION SUBMISSION

SUBMITTAL / REVISION DESCRIPTION

**CSX GENERAL NOTES** 

APPROVED BY:

DESIGNED BY:

21162 SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM

DRAWING NO.

KIEWIT PROJECT NO.

G-004

AS SHOWN DATI

APPROX. USACE FEDERAL CHANNEL BOUNDARY (TYP.)

EXISTING UTILITY BOX UNKNOWN EXISTING ANTENNA CAPPED IRON ROD EXISTING CAPPED IRON ROD O IRON PIPE EXISTING IRON PIPE EXISTING CONCRETE MONUMENT

CONCRETE BOUNDARY

EXISTING REFLECTOR MARKER EXISTING SYMBOL

EXIST. TELE. MARKER POST

EXIST. TELE. JUNCTION BOX

EXIST. TRAFFIC SIGNAL BOX

EXISTING MANHOLE UNKNOWN

EXIST. CELL TOWER

EXIST. CABLE BOX

EXISTING POST

EXISTING SIGN EXIST. STRUCTURE POST EXIST. STRUCTURE MAILBOX EXIST. GAS LINE — G — G — EXIST. UNDERGROUND TELE. — — UT — UT — EXIST. FIBER OPTIC — F0 — F0 — EXIST. OVERHEAD TELE. — ot — ot — EXIST. UNDERGROUND ELEC. — — UE — — UE — EXIST. OVERHEAD ELEC. — OE — OE — EXIST. CULVERT — st — st — EXIST. SANITARY SEWER — — ss — — ss — EXIST. STORM SEWER — — ST — — ST — EXIST. POTABLE WATER LINE — — w — — w — EXIST. FUEL LINE EXIST. RAILROAD TRACK ⊗ CERTIFIED ROUTE MP XX CERTIFIED ROUTE PROVIDED BY CHPE KMZ ⊗ RANDALL PREFERRED MP XX RANDALL PREFERRED PROVIDED BY CHPE KMZ EXIST. CONTOUR, INDEX EXIST. CONTOUR, DEPRESSION INDEX -^\_---EXIST. CONTOUR, INTERMEDIATE EXIST. CONTOUR, DEPRESSION INTERMEDIATE  $\times^{139.7}$ EXIST. SPOT ELEVATION EXIST. DEBRIS EXIST. FIELD LINE EXIST. LANDSCAPE AREA EXIST. PILE EXIST. STORAGE AREA EXIST. NATURAL BOULDER EXIST. NATURAL SHRUB LINE EXIST. NATURAL TREE LINE .....  $\bigcirc$   $\bigcirc$   $\bigcirc$ EXIST. NATURAL SINGLE TREE/BUSH EXIST. STRUCTURAL BUILDING EXIST. PAVED DRIVE EXIST. PAVED ROAD EXIST. PAVED SHOULDER EXIST. PAVED SIDEWALK EXIST. GUARDRAIL EXIST. TRAIL EXIST. FENCE EXIST. WALL EXIST. RETAINING WALL EXIST. MILEPOST NUMBER

#### NOTES:

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1. LIMIT OF WORK (LOW) - THE BOUNDARY IN WHICH ALL CONSTRUCTION ACTIVITIES, STOCKPILES MATERIAL, EQUIPMENT STORAGE, ACCESS, PARKING, GRADING, LANDSCAPING, RESTORATION, AND ANY OTHER CONSTRUCTION RELATED ACTIVITIES SHALL OCCUR. ADDITIONALLY, THE LOW IS THE BOUNDARY FOR ALL POTENTIAL DISTURBANCE DURING CONSTRUCTION. UNLESS OTHERWISE SPECIFIED, WHEN THE LIMIT OF CLEARING AND GRUBBING IS SHOWN ON THE PLANS, IT SHALL ALSO BE THE LOW. THE LOW INCLUDES THE AREA THAT WOULD BE CONSIDERED THE LIMIT OF DISTURBANCE (LOD).

EXIST. MAPPING BOUNDARY

EXIST. GROUND CONTROL

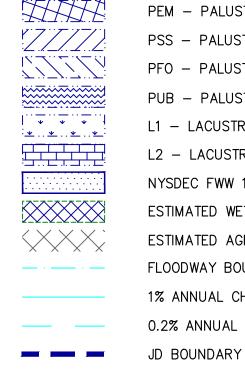
EXIST. RIGHT-OF-WAY

EXIST. WETLAND FLAG

EXIST. WATERBODY, STREAM, OR STREAM BANK

EXIST. WETLANDS

EXIST. ABUTTER



PEM - PALUSTRINE EMERGENT PSS - PALUSTRINE SCRUB-SHRUB PFO - PALUSTRINE FORESTED PUB - PALUSTRINE UNCONSOLIDATED BOTTOM L1 - LACUSTRINE LIMNETIC L2 - LACUSTRINE LITTORAL NYSDEC FWW 100-FOOT ADJACENT BUFFER AREA ESTIMATED WETLAND BOUNDARY ESTIMATED AGRICULTURAL LAND BOUNDARY FLOODWAY BOUNDARY 1% ANNUAL CHANCE FLOODPLAIN BOUNDARY 0.2% ANNUAL CHANCE FLOODPLAIN BOUNDARY

VEG. CLEARING - TYPE I - HAND CUTTING APPROVED CENTERLINE VEG. CLEARING - TYPE II - MECHANICAL CLEARING CORRUGATED METAL PIPE CMP VEG. CLEARING - TYPE III - MOWING CONC CONCRETE VEG. CLEARING — TYPE IV — MECHANICAL WHOLE—TREE FELLING DB DESIGNED BY PROP. WETLAND PROTECTION FENCE DEC NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PROP. COMPOST FILTER SOCK (OR SILT SOCK) DEG DEGREES CHECK DAM DR DRIVE SURFACE WATER FLOW DΖ DEVIATION ZONE  $\leftrightarrow\sim$ EASTING PROP. TEMPORARY SWALE **ELECTRIC** ELECTRIC CABLE STABILIZED CONSTRUCTION ENTRANCE (TYP.) ELEV ELEVATION PROP. TEMP MAJOR CONTOUR STATION EQUATION AHEAD EQNAHD PROP. TEMP MINOR CONTOUR EQNBK STATION EQUATION BACK PROP. LIMITS OF WORK/DISTURBANCE ----LOW-----EXIST EXISTING  $\sim$ PROP. LIMITS OF CLEARING/LIMITS OF WORK IN CLEARING AREAS **FIBER** FIBER OPTIC CABLE PROP. CONCRETE WASHOUT FT FEET \_\_\_\_ PROP. TEMP ACCESS ROAD RTE (EXISTING ROAD OR SURFACE) GAS GAS PIPE PROP. TEMP REFURBISHED ACCESS ROAD HORIZONTAL HDD HORIZONTAL DIRECTIONAL DRILLING PROP. TEMP ACCESS ROAD OR OFF SITE ACCESS ROAD PROP. WETLAND OR AGRICULTURAL LAND\* WORKING SURFACE HIGH-VOLTAGE DIRECT CURRENT TRANSMISSION LINE HVDC (SEE SHEET C-613) (\*AGRICULTURAL LANDS MAY USE WETLAND INVERT ELEVATION INV WORKING SURFACE OR OTHER APPROVED MITIGATION METHODS) LIMITS OF WORK LOW PROP. MILLING & RESURFACING r - -LT LEFT PROP. SPLICE LOCATION MAXMAXIMUM PROP. SPLICE VAULT MINIMUM PROP. LINK BOX HANDHOLE NORTHING PROP. FIBER SPLICE HANDHOLE NUMBER PROP. BORING LOCATION NEW YORK XXXXX+XX PROP. ALIGNMENT STATIONING NYCDEP NEW YORK CITY DEPT. OF ENVIRONMENT PROTECTION PROP. ALIGNMENT CENTERLINE NYCDOT NEW YORK CITY DEPT. OF TRANSPORTATION PROP. LAYDOWN YARDS, PARKING, STORAGE & MUSTER AREA NYDPR NEW YORK CITY DEPT. OF PARKS AND RECREATION PROP. WORK AREAS P# PACKAGE # PERM PERMANENT 7' FOUL ZONE: NO VEHICLES, MATERIALS, DISTURBANCE PERSONNEL, OR WORK SHALL ENCROACH THE ZONE WITHIN 7FT OF PROP. PROPOSED THE NEAREST RAIL WITHOUT CSX COORDINATION AND APPROVAL POLYVINYL CHLORIDE PROP. SHORING/SHEETING PVIPOINT OF VERTICAL INTERSECTION PROP. TEMP EASEMENT RADIUS REINFORCED CONCRETE PIPE PROP. PERM EASEMENT ROAD RD PROP. TEMP ACCESS EASEMENT REV REVISION SL PM SPLICE LOCATION POLE MARKER RIGHT-OF-WAY ROW RIGHT UNDERGROUND POWER CABLE POLE MARKER RTE ROUTE SEWER SANITARY SEWER PIPE PROP. TRANSITION BOX MANHOLE SH SHEET DC CABLE IDENTIFICATION TAGS. SEE SHEET C-807 FOR MORE DETAILS ST STREET | A (-) | B (+) | STA STATION STORM STORM DRAIN PIPE TELECOM TELECOMMUNICATIONS CABLE TEMP **TEMPORARY** TR THERMAL RESISTIVITY **TYPICAL** VERTICAL WATER WATERLINE



**Power Express** 





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					SE
0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION	BV	TK	
No	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	ΔΡΡ	

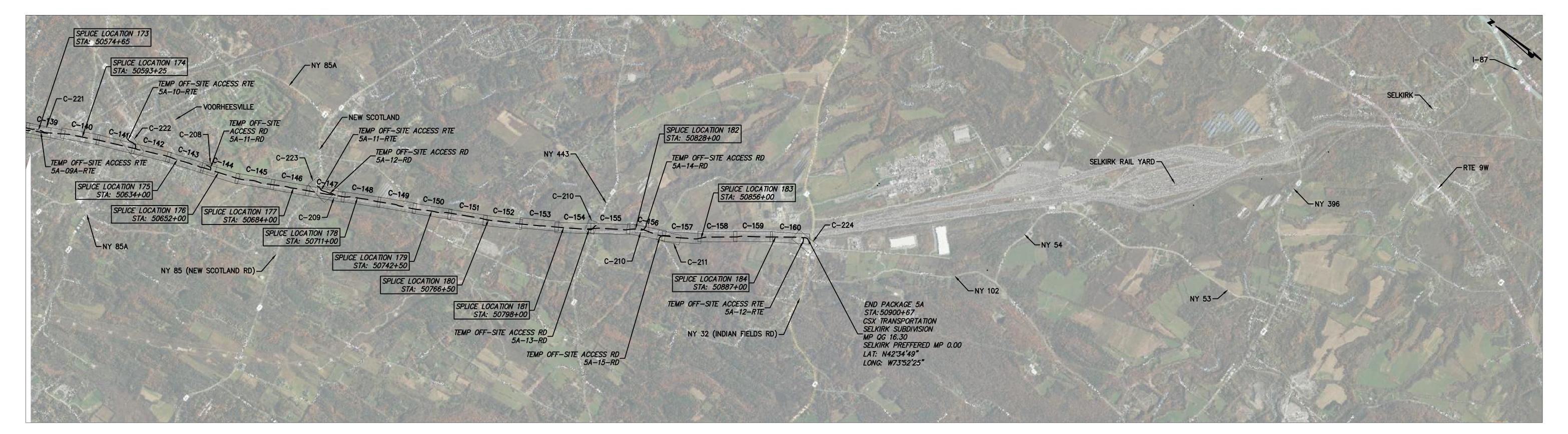
CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM

KIEWIT PROJECT NO. 21162

0 SH.NO.

DB | APP | DRAWN BY: AR | DESIGNED BY: BV | APPROVED BY: TK | REV. NO. NO. | DATE | SUBMITTAL / REVISION DESCRIPTION

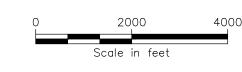
LEGEND AND ABBREVIATIONS DRAWING NO. **G-005** AS SHOWN DATE



PLAN AND PROFILE KEY MAP

SCALE: 1" = 2000'

DATE SUBMITTAL / REVISION DESCRIPTION



AS SHOWN DATE

0 SH.NO.







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					CHAMPLAIN HUDSON POWER EXPRESS	KIEWIT PROJECT NO.
					CHAMIFLAM HODSON FOWLK LAFILDS	21162
					SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM	
					PLAN AND PROFILE KEY MAP	DRAWING NO.
						<b>G-006</b>
						<b>G-000</b>
0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION	BV	TK		

DB APP DRAWN BY: AR DESIGNED BY: BV APPROVED BY: TK REV. NO.



SPLICE NAME

SPLICE LOCATION 155

SPLICE LOCATION 156

SPLICE LOCATION 157

SPLICE LOCATION 158

SPLICE LOCATION 158.A

SPLICE LOCATION 159

SPLICE LOCATION 160

SPLICE LOCATION 161

SPLICE LOCATION 162

SPLICE LOCATION 163

SPLICE LOCATION 163.A

SPLICE LOCATION 164

SPLICE LOCATION 165

SPLICE LOCATION 166

SPLICE LOCATION 167

SPLICE LOCATION 167.A

SPLICE LOCATION 168

SPLICE LOCATION 169

SPLICE LOCATION 170

SPLICE LOCATION 171

SPLICE LOCATION 172

SPLICE LOCATION 173

SPLICE LOCATION 174

SPLICE LOCATION 175

SPLICE LOCATION 176

SPLICE LOCATION 177

SPLICE LOCATION 178

SPLICE LOCATION 179

SPLICE LOCATION 180

SPLICE LOCATION 181

SPLICE LOCATION 182

SPLICE LOCATION 183

SPLICE LOCATION 184

LINK BOX

155

158.A

162

166

169

174

SHEET NUMBER

C-102

C-104

C-106

C-107

C-109

C-111

C-113

C-114

C-116

C-118

C-119

C-121

C-122 & C-123

C-124

C-125

C-127 & C-128

C-129

C-131 & C-132

C-133

C-135

C-137

C-139

C-140

C-143

C-144

C-146

C-148

C-150

C-152

C-154

C-156

C-158

C-160

SHEET NUMBER

C-102

C-109

C-116

C-124

C - 132

C-140

STATION

50027+50.00

50057+00.00

50087+00.00

50097+25.00

50127+85.00

50158+45.00

50181+20.00

50208+20.00

50238+20.00

50262+70.00

50276+70.00

50302+20.00

50329+75.00

50349+25.00

50373+25.00

50404+75.00

50433+00.00

50465+00.00

50487+25.00

50519+25.00

50542+75.00

50574+65.00

50593+25.00

50634+00.00

50652+00.00

50684+00.00

50711+00.00

50742+50.00

50766+50.00

50798+00.00

50828+00.00

50856+00.00

50887+00.00

STATION

50027+54.00

50127+89.00

50238+24.00

50349+29.00

50465+04.00

50593+29.00





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THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A
SPECIFIC DESCRIPTION OF THE ALTERATION.

					SEGMEN	T 8	(PACKAGE ! E, LINK BOX LO	5A) (, A	- CSX:	ROT ER OI	TER PTI	RDAM -
0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION	BV	TK								
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRAWN BY:	AR	DESIGNED BY:	BV	APPROV	ED BY:		SCALE REV. NO.

50827+39.43

50855+39.43

50886+39.43

-73.888402

-73.883497

-73.876509

DRAWING NO.

AS SHOWN DATE

G-007

KIEWIT PROJECT NO.

21162

CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM	_
SPLICE, LINK BOX, AND FIBER OPTIC HANDHOLE LOCATION TABLES	_

656790.37

658128.73

660028.59

42.596869

42.590202

42.583466

178	C-148	50711+04.00	1381620.76	650920.41	42.624391	-73.909945	SEALING FOR THE ACCURACY OF THE LO
182	C-156	50828+04.00	1371591.49	656841.98	42.596756	-73.888212	APPURTENANCES DEPICTED ON THIS PLAN ON GENERAL NOTES 2 OF 2, SHEET G-C THE CIVIL ENGINEER OF RECORD'S SCOPE
LINK BOX HA	ANDHOLES ARE REQUIRED	AT SPLICE LOCATIONS. L	INK BOXES AT SPLICE VA	AULTS ARE LOCATED INSI	DE THE VAULT.		THE CIVIL ENGINEER OF RECORD 3 3COPE

*NOTE:	LINK BOX HANDHOLES ARE R	REQUIRED AT SPLICE LOCATIONS.	LINK BOXES AT SPLICE VAULTS ARE	LOCATED INSIDE THE VAULT.

SPLICE LOCATION TABLE

NORTHING

1444472.67

1441750.25

1439037.44

1438085.04

1435292.39

1432477.98

1430378.67

1427892.86

1425110.10

1422879.83

1421579.70

1419221.40

1416497.35

1414548.33

1412168.15

1409104.27

1406358.38

1403390.39

1401518.69

1398873.68

1396802.43

1393929.53

1392297.15

1388566.48

1386875.39

1383991.51

1381618.23

1378815.11

1376704.22

1374010.50

1371586.26

1369171.88

1366722.64

LINK BOX TABLE\*

NORTHING

1444464.08

1435282.39

1425101.31

1414543.93

1403380.13

1392298.81

**EASTING** 

626424.45

627539.69

628668.97

629043.62

630190.99

631356.82

632226.30

633266.81

634378.68

635370.76

635889.12

636827.29

637152.42

637155.07

637316.85

638022.85

638594.72

639724.34

640927.41

642711.15

643813.65

645190.46

646052.52

647673.83

648280.22

649631.17

650907.29

652327.08

653446.57

655074.74

656829.69

658173.79

660064.52

**EASTING** 

626414.21

630182.13

634368.62

637142.45

639715.78

646065.78

LATITUDE

42.797287

42.789799

42.782337

42.779717

42.772035

42.764293

42.758518

42.751679

42.744025

42.737888

42.734311

42.727824

42.720343

42.714995

42.708462

42.700042

42.692497

42.684333

42.679176

42.671886

42.666182

42.658274

42.653779

42.643511

42.638860

42.630921

42.624384

42.616665

42.610852

42.603428

42.596742

42.590090

42.583331

LATITUDE

42.797264

42.772008

42.744001

42.714984

42.684305

42.653783

LONGITUDE

-73.999580

-73.995485

-73.991339

-73.989965

-73.985754

-73.981477

-73.978287

-73.974470

-73.970395

-73.966755

-73.964856

-73.961420

-73.960274

-73.960311

-73.959766

-73.957212

-73.955150

-73.951020

-73.946591

-73.940023

-73.935975

-73.930927

-73.927764

-73.921831

-73.919621

-73.914674

-73.909994

-73.904791

-73.900688

-73.894711

-73.888258

-73.883331

-73.876377

LONGITUDE

-73.999618

-73.985788

-73.970433

-73.960358

-73.951052

-73.927714

STATE OF NEW LORE
103646 LICENS 103646
103646

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THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A
SPECIFIC DESCRIPTION OF THE ALTERATION.

CO- SEALING NOTE: THE ELECTRICAL ENGINEER OF RECORD, MICHAEL REHIS WHEELER, IS SEALING FOR THE ELECTRICAL DESIGN AND ACCEPTABILITY OF THE LOCATIONS OF ELECTRICAL APPERTUNANCES DEPICTED ON THIS PLAN SHEET. THE CIVIL ENGINEER OF RECORD, THOMAS A. KELLY, IS SEALING FOR THE ACCURACY OF THE LOCATIONS OF ELECTRICAL LAN SHEET. SEE CIVIL NOTES - 003, FOR LIMITATIONS OF OPE OF DESIGN.

182

183

184

C-156

C-158

C-160

CIDED ODTIO	T		ER OPTIC HANDHOLE TA	1	1	
FIBER OPTIC HANDHOLE	SHEET NUMBER	STATION	NORTHING	EASTING	LATITUDE	LONGITUDE
155	C-102	50026+89.43	1444528.61	626401.24	42.797441	-73.999665
156	C-104	50056+39.43	1441806.25	627516.60	42.789953	-73.995570
157	C-106	50086+39.43	1439093.44	628645.88	42.782491	-73.991424
158	C-107	50096+64.43	1438141.03	629020.53	42.779871	-73.990050
158.A	C-109	50127+24.43	1435344.29	630159.76	42.772178	-73.985870
159	C-111	50157+84.43	1432534.12	631334.06	42.764447	-73.981560
160	C-113	50180+59.43	1430434.87	632203.70	42.758673	-73.978370
161	C-114	50207+59.43	1427948.84	633243.68	42.751833	-73.974555
162	C-116	50237+59.43	1425165.55	634354.30	42.744177	-73.970485
163	C-118	50262+09.43	1422936.32	635348.93	42.738043	-73.966835
163.A	C-119	50276+09.43	1421635.76	635866.18	42.734465	-73.964940
164	C-121	50301+59.43	1419279.27	636809.40	42.727983	-73.961485
165	C-122	50329+14.43	1416557.91	637151.22	42.720510	-73.960277
166	C-124	50348+64.43	1414608.87	637153.16	42.715162	-73.960317
167	C-125	50372+64.43	1412228.28	637309.57	42.708627	-73.95979 <sup>-</sup>
167.A	C-127	50404+14.43	1409162.99	638007.98	42.700203	-73.957266
168	C-129	50432+39.43	1406417.12	638579.95	42.692659	-73.955204
169	C-131	50464+39.43	1403441.35	639691.61	42.684474	-73.951141
170	C-133	50486+64.43	1401569.65	640894.67	42.679316	-73.946712
171	C-135	50518+64.43	1398924.86	642678.77	42.672027	-73.940142
172	C-137	50542+14.43	1396857.20	643787.78	42.666333	-73.936070
173	C-139	50574+04.43	1393984.60	645165.23	42.658425	-73.931020
174	C-140	50592+64.43	1392352.24	646027.35	42.653930	-73.927856
175	C-143	50633+39.43	1388623.54	647653.52	42.643668	-73.921906
176	C-144	50651+39.43	1386932.50	648260.05	42.639017	-73.919694
177	C-146	50683+39.43	1384044.21	649601.32	42.631066	-73.914784
178	C-148	50710+39.43	1381671.55	650878.56	42.624531	-73.910099
179	C-150	50741+89.43	1378868.80	652299.04	42.616813	-73.904894
180	C-152	50765+89.43	1376758.01	653418.72	42.611000	-73.900790
181	C-154	50797+39.43	1374061.49	655042.04	42.603569	-73.894831

1371632.33

1369212.36

1366771.40

CHAPTER 4 -CONSTRUCTION METHODS						
TOPIC	SECTION OF EM&CP					
CABLE INSTALLATION REQUIREMENTS	4.2					
HORIZONTAL DIRECTIONAL DRILLING	4.3					
INSTALLATION AND PERFORMANCE CONTROLS	4.3.1					
BUILDINGS AND STRUCTURES WITHIN 100-FT OF HDD	4.3.2					
INADVERTANT RELEASE CONTINGENCY PLAN AND DRILLING FLUID MANAGEMENT	4.3.3, APPENDIX J					
ROAD CROSSING METHODS	4.3.4					
TRENCHING	4.4					
TRENCHING IN AGRICULTURAL LANDS	4.4.1					
TRENCHING IN ROADWAYS	4.4.2					
TRENCHING IN WETLANDS	4.4.3					
LENGTH OF OPEN TRENCH	4.4.4					
SPLICING AND JOINTING	4.4.5					
DEWATERING METHODS	4.4.6					
BEDDING AND BACKFILLING METHODS	4.4.7					
DREDGING	NOTE APPLICABLE FOR THIS SEGMENT					
CONVERTER STATION AND SUBSTATION REQUIREMENTS	NOTE APPLICABLE FOR THIS SEGMENT					
RIGHT OF WAYS AND EASEMENTS	4.7					
RIGHT OF WAY CLEARING	4.8 (SEE ALSO SECTION 8)					
BUILDING AND STRUCTURE REMOVAL	4.9					
ACCESS ROADS	4.10					
DRIVEWAY ACCESS DURING CONSTRUCTION	4.10.2					
ACCESS THROUGH WETLANDS OR STREAMS	4.10.3					
ACCESS THROUGH AGRICULTURAL LANDS	4.10.4					
DRAIN LINES AND UNDER DRAINS WITHIN AGRICULTURAL LANDS	4.10.5					
SOIL MANAGEMENT PLAN	4.11 AND APPENDIX L					
CULVERT REPLACEMENT	4.12					

NOTE: TABLE 4 SUMMARIZES THE CONSTRUCTION METHODS AND ASSOCIATED SUBSECTIONS THAT SUMMARIZE THE MEASURES AND STANDARDS THAT WILL BE FOLLOWED WITHIN SEGMENT 8.

# SEGMENT 8 - HDD INFORMATION AND ADJACENT STRUCTURES

TABLE 4-1 - SEGMENT 8 HDD LOCATIONS				
HDD #	SHEET	APPROXIMATE LENGTH (FEET)	STATION (APPROXIMATE -SEE DRAWINGS FOR DETAILS)	PURPOSE
71	C-101 AND C-102	1,925	STA 50005 TO 50024	AVOID PHILLIPS ROAD, UNDERGROUND UTILITIES
72	C-103 AND C-104	550	STA 50043 TO 50048+50	AVOID MARIAVILLE ROAD
73	C-105	525	STA 50065 TO 50070	AVOID DUANESBURG ROAD
73.A AND 74	C-107 AND C-108	1,985	STA 50100 TO 50120	AVOID OVERHEAD ELECTRIC, CULVERT, NYS THRUWAY
75	C-110 AND C-111	800	STA 50146 TO 50154	AVOID GUILDERLAND AVE
75.A.A	C-112	700	STA 50168+50 TO 50175+50	AVOID WETLAND
75.A	C-115 AND C-116	2,250	STA 50210+50 TO 50233	AVOID MULTIPLE CULVERTS
75.B	C-120	730	STA 50290+50 TO 50298	AVOID CULVERTS
76 AND 76.A	C-121 AND C-122	2,075	STA 50307 TO 50327+50	AVOID WESTERN TURNPIKE AND WATERBODY
77	C-123 AND C-124	1,380	STA 50332+50 TO 50346+50	AVOID WETLAND
78	C-126 AND C-127	1,960	STA 50382+50 TO 50402	AVOID STATE ROUTE 146, CULVERT
79.B	C-128 AND C-129	1,240	STA 50410 TO 50422	AVOID CULVERT AND DEC STREAM

HDD #	PARCEL NUMBER	SHEET (APPROXIMATE -SEE APPENDI
74	47. 0. 4.444	C FOR DETAILS)
71	478-1.111	C-101 AND C-102
73A 74	582-2.21	C-107 AND C-108
75A 	14.00-2-29	C-115 AND C-116
75A	14.00-2-17	C-115 AND C-116
75A	14.00-2-36.2	C-115 AND C-116
75B	26.00-3-34	C-120
75B AND 76 76A	26.00-3-35	C-120 TO C-122
76 AND 76A	38.00-4-9	C-121
76 76A 77	38.00-4-5.6	C-121 TO C-124
78	38.20-2-21	C-126 AND C-127
78	38.00-5-14	C-126 AND C-127
78	50.00-1-15	C-127
78 79B 80	50.00-1-14.11/2	C-126 TO C-131
80A	613-16.1	C-137 TO C-139
80A	61.19-2-4	C-137 TO C-139
80A	61.19-5-1	C-137 TO C-139
80A 81	61.19-2-2	C-137 TO C-140
81	61.18-4-1.1	C-140
81	72.8-3-1	C-139 AND C-140
81	72.8-1-1	C-139 AND C-140
81	72.7–3–35	C-139 AND C-140
81	72.7-3-31	C-139 AND C-140
81	72.7–3–31	C-139 AND C-140
81	61.19-3-22	C-139 AND C-140
81	61.19-2-6	C-139 AND C-140
82 AND 83	72.12-1-44	C-140 TO C-142
82 AND 83	72.12-1-43	C-140 TO C-142
82 AND 83	72.12-1-43	C-140 TO C-142
82 AND 83	72.12-1-42	C-140 TO C-142
82 AND 83	72.12-1-41	C-140 TO C-142
82 AND 83	72.12-1-39	C-140 TO C-142
82 AND 83	72.12-1-38	C-140 TO C-142

	TABLE 4-1 - SEGMENT 8 HDD LOCATIONS				
HDD #	SHEET	APPROXIMATE LENGTH (FEET)	STATION (APPROXIMATE -SEE DRAWINGS FOR DETAILS)	PURPOSE	
80	C-130 AND C-131	1,880	STA 50443 TO 50461+50	AVOID DEC STREAM, LIMITED ROW AREA, CULVERTS	
80.A	C-137 TO C-139	2,060	STA 50551 TO 50572	AVOID CULVERTS AND WETLAND	
81	C-139 AND C-140	1,055	STA 50578 TO 50589	AVOID CULVERTS AND UTILITIES, MAIN STREET	
82 AND 83	C-141 AND C-142	1,575	STA 50600 TO 50616	AVOID MAPLE ROAD, CULVERT, DEC STREAM	
83.A	C-145 AND C-146	700	STA 50674 TO 50681	AVOID STREAM WITHIN CULVERT	
84	C-146 AND C-147	1,085	STA 50687 TO 50698	AVOID CULVERT AND NEW SCOTLAND ROAD	
84.A	C-149 AND C-150	1,030	STA 50729 TO 50739	AVOID NEW SCOTLAND SOUTH ROAD, BRIDGE CROSSING, AND STREAMS	
84.B	C-152 AND C-153	1,030	STA 50777+50 TO 50793+50	AVOID GAME FARM ROAD, TERRAIN CONSTRAINTS	
85	C-154 AND C-155	1,555	STA 50808 TO 50823+50	AVOID DELAWARE TURNPIKE AND MANY CULVERTS	
87	C-156 AND C-157	1,210	STA 50830+50 TO 50842+50	AVOID STREAM AND GAS LINES	
87.A.A	C-160	650	STA 50890+50 TO 50897	AVOID CULVERT	

HDD #	PARCEL NUMBER	SHEET (APPROXIMATE -SEE APPENDIX C FOR DETAILS)
82 AND 83	72.12-4-9	C-140 TO C-142
82 AND 83	72.12-4-8	C-140 TO C-142
82 AND 83	72.12-4-6	C-140 TO C-142
82 AND 83	72.12-4-2	C-140 TO C-142
82 AND 83	72.12-4-1	C-140 TO C-142
82 AND 83	72.12-3-1	C-140 TO C-142
82 AND 83	72.8–1–26	C-140 TO C-142
82 AND 83	72.8–1–25	C-140 TO C-142
82 AND 83	72.8–1–7.2	C-140 TO C-142
82 AND 83	72.8–1–16.1	C-140 TO C-142
82 AND 83	72.8–1.7.1	C-140 TO C-142
82 AND 83	72.8-3-33	C-140 TO C-142
83A	723-41.2	C-145 AND C-146
83A	723-41.3	C-145 AND C-146
83A	723-42	C-145 AND C-146
83A 84	723-41.612	C-145 TO C-147
84A	841-40.11	C-149 AND C-150
84A	841-9	C-149 AND C-150
84A	844-1.30	C-149 AND C-150
84A	844-1.22	C-149 AND C-150
84A	844-1.21	C-149 AND C-150
84A	842-49.4	C-149 AND C-150
84B	842-50	C-152 AND C-153
84B	842-50	C-152 AND C-153
84B	953-1.1	C-152 AND C-153
84B	953-2.1	C-152 AND C-153
84B	953-3	C-152 AND C-153
85	953-41	C-154 AND C-155
85	953-42	C-154 AND C-155
87	1071-3	C-156 AND C-157
87AA	108.00-1-13	C-160
87AA	108.00-1-12	C-160





FOR INFORMATION, SEE ENVIRONMENTAL MANAGEMENT AND CONSTRUCTION PLAN NARRATIVE.

			CHAMPLAIN HUDSON
			CHAMPLAIN HUDSUN
			SEGMENT 8 (PACKAGE 5A) - CSX:
			EM&CP TABLE
0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION	

DATE SUBMITTAL / REVISION DESCRIPTION

DB APP DRAWN BY:

POWER EXPRESS X: ROTTERDAM - BETHLEHEM LES 1 OF 7

DESIGNED BY:

KIEWIT PROJECT NO.
21162
DRAWING NO.

G-010

APPROVED BY:

AS SHOWN DATE 0 SH.NO.

PROPERTY OWNER

STEPHEN ZELEZNIAK

STEPHEN ZELEZNIAK

STEPHEN ZELEZNIAK

W. OLD STATE ROAD

W. OLD STATE ROAD

BRIAN E.MAK

BRIAN E.MAKI

BRIAN E.MAKI

JAMES A. MOLLEF

JAMES A. MOLLER

DAVID R. RALSTON

ROBERT DUNCAN

ROBERT DUNCAN

ROBERT DUNCAN

ROBERT DUNCAN

EIGHTY FOUR PROPERTIES, LLC

EIGHTY FOUR PROPERTIES, LLC

EIGHTY FOUR PROPERTIES, LLC

FIGHTY FOUR PROPERTIES ILC

ROUTE 20 - WESTERN TURNPIKE

JAMES BESHA

SUSAN THOMAS

CRISTO DEMOLITIONS LLC

CRISTO DEMOLITIONS LLC

CRISTO DEMOLITIONS LLC

CRISTO DEMOLITIONS INC

WATERVLIET WATER BOARD

TOWN OF GUILDERLAND

TOWN OF GUILDERLAND

FRENCH MILLS ROAD

FRENCH MILLS ROAD (EAST)

FRENCH MILLS ROAD (WEST)

TOWN OF GUILDERLAND

STATE ROUTE 146

TOWN OF GUILDERLAND

NORTHEASTERN IP HOLDINGS INC

STONE ROAD (EAST)

STONE ROAD

STONE ROAD (WEST)

RANDY J.DAVIS

ALICIA L. MCNALLY

GUILDERLAND AND SELF STORAGE INC

HELDEBURG ROOF CONSLITANTS LLC

JEFFERY LAWYER

FARLIN CORPARATION

FOUNDARY ROAD

FOUNDARY ROAD

NORFOLK SOUTHERN RIALWAY CO.

NORFOLK SOUTHERN RIALWAY CO.

VOORHEESVILLE AVE

UNITED STATES POSTAL SERVICE

MARK CROUNSE

JOHN LE SEMENICK

ROBERT B. KAUS

JASON GARDNER

MAPLE ROAD

MAPLE TOV, LLC

MAPLE TOV, LLC

MAPLE TOV, LLC

GEORGE E. STARK

MARGARET E. HARBOUR-HOLLAND

**NEIL D. SHANNON** 

VILLAGE OF VOORHEESVILLE

DAVID N. MOREAU

DAVID N. MOREAU

DAVID N. MOREAU (EAST)

DAVID N. MOREAU

PARCEL NUMBER

14.-2-36.2

14.-2-36.2

14.-2-36.2

26.00-3-22

26.00-3-22

26.00-3-22

26.00-3-20.1

26.00-3-20.1

26.00-3-19

26.00-3-34

26.00-3-34

26.00-3-34

26.00-3-34

26.00-3-35

26.00-3-35

26.00-3-35

26.00-3-35

26.00-3-36.21

26.00-3-36.22

38.00-4-9

38.00-4-9

38.00-4-9

38.00-4.9

26.00-4-3

38.00-5-12

38.00-5-13

38.00-5-14

50.00-1-15

50.00-1-14.11

50.00-1-14.11

50.00-1-14.11

50.00-1-14.11

50.00-1-14.11

50.00-1-14.11

50.00-1-14.11

50.00-1-14.21

50.00-1-14.21

50.00-1-14.21

50.00-1-14.21

61.00-1-22

61.00-1-23

61.00-1-26.2

61.00-1-26.3

61.00-1-28.2

61.00-3-16.1

61.18-4-1.1

61.18-4-1.1

72.8-1-7.2

72.8-1-7.1

72.8-1-38

72.8-1-26

72.12-3-1

72.12-4-1

72.12-4-2

72.12-4-2

72.12-4-8

72.12-4-9

72.12-4-10

72.16-5-44

72.00-3-41.51

72.00-3-41.51

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NEW SCOTLAND

TABLE 4-4 -FACILITY ROW OWNERSHIP FOR SEGMENT 8

START

50251 + 41

50251+41

50251+41

50253+55

50253+55

50254+40

50254+40

50254+40

20256+60

20256+60

50262+12

50280+87

50281+22

50291+10

50297+50

50299+71

50301+10

50304+48

50305+98

50309+00

50308+00

50308+00

50308+96

50310+21

50310+91

50342+60

50364+33

50368+54

50371+42

50377+86

50377+86

50377+86

50378+89

50393+86

50395+00

50396+88

50401+00

50402+00

50407+63

50421+94

50421+94

50422+27

50445+76

50445+76

50468+98

50485+18

50502+15

50502+15

50502+15

50503+54

50506+50

50507+87

50512+57

50540+12

50549+50

50566+00

50577+60

50583+05

50585+26

50596+55

50597+00

50598+70

50604+02

50605+60

50607+30

50608+61

50609+80

50611+62

50615+58

50617+00

50617+56

50619+56

50645+99

50648+10

50650+15

50664+42

50664+42

50664+42

STATIONING END

50252+80

50252+80

50252+80

50254+07

50254+07

20256+60

20256+60

20256+60

50258+12

50262+12

50267+39

50294+02

50284+12

50299+00

50299+70

50307+05

50303+10

50305+03

50309+00

50309+72

50310+00

50310+00

50309+56

50360+50

50312+00

50357+95

50368+54

50371+42

50378+00

50378+89

50378+89

50378+89

50384+83

50395+00

50396+88

50445+76

50410+00

50403+70

50410+00

50443+12

50445+76

50445+76

50467+63

40457+72

50474+30

50487+39

50502+84

50502+84

50502+84

50506+50

50507+87

50512+57

50523+05

50547+00

50550+90

50578+69

50578+52

50585+26

50587+02

50597+00

50598+70

50600+95

50605+60

50607+30

50608+61

50609+80

50611+62

50616+00

50617+00

50617+56

50619+56

50621+00

50648+10

50649+42

50657+00

50667+00

50667+00

50667+00

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TYPE OF EASEMENT

TEMPORARY CONSTRUCTION

**PERMANENT** 

TEMPORARY CONSTRUCTION (MUSTER AREA)

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FOR INFORMATION, SEE AND CONSTRUCTION PLAN NARRATIVE.

TYPE OF EASEMENT

PERMANENT

TEMPORARY CONSTRUCTION

PFRMANFNT

PFRMANFNT

PERMANENT

PERMANENT

TEMPORARY CONSTRUCTION

TEMPORARY CONSTRUCTION

TEMPORARY CONSTRUCTION

TEMPORARY CONSTRUCTION

PERMANENT

TEMPORARY CONSTRUCTION

Kiewit	

ALBANY COUNTY		NEW SCOTLAND	72.00-3-41.51	DAVID N.	MOREAU (W	(EST)		
								CH SEGM
	0	06/09/2023	ISSUED FOR CONSTRU	UCTION SUBMISSION				_
	No.	DATE	SUBMITTAL / REVISION D	ESCRIPTION		DB	APP	DRAWN

HAMPLAIN HUDSON POWER EXPRESS MENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM EM&CP TABLES 2 OF 7

KIEWIT PROJECT NO.

G-011

DRAWING NO.

AS SHOWN DATE DESIGNED BY APPROVED BY: 0 SH NO

SCHENECTADY COUNTY ROTTERDAM KELLER AVE 50040+88 50041+84 PUBLIC PERMANENT SCHENECTADY COUNTY ROTTERDAM 48.17-3-3.1 SHAWN M & PAMELA V. SMITH 50044+23 50041+70 PRIVATE PERMANENT SCHENECTADY COUNTY ROTTERDAM 48.17-3-3.1 SHAWN M & PAMELA V. SMITH 50041+70 50042+77 PRIVATE TEMPORARY CONSTRUCTION SCHENECTADY COUNTY ROTTERDAM MARIAVILLE ROAD 50044+23 50044+75 PUBLIC PERMANEN<sup>T</sup> SCHENECTADY COUNTY ROTTERDAM 48.17-3-12 DAZ REAL ESTATE DEVELOPMENT 50044+75 50045+37 PRIVATE PERMANENT ROTTERDAM 48.17-3-11.11 50054+30 SCHENECTADY COUNTY COUNTY OF SCHENECTADY 50045+37 PRIVATE PERMANENT TEMPORARY CONSTRUCTION SCHENECTADY COUNTY ROTTERDAM 48.17-3-11.11 COUNTY OF SCHENECTADY 50048+20 50054+30 PRIVATE TEMPORARY CONSTRUCTION SCHENECTADY COUNTY ROTTERDAM 48.17-3-11.11 COUNTY OF SCHENECTADY 50056+00 50054+30 PRIVATE ROTTERDAM 48.17-7-1 SCHENECTADY COUNTY 50058+80 PRIVATE COUNTY OF SCHENECTADY 50054+30 PFRMANFNT SCHENECTADY COUNTY ROTTERDAM 48.17-7-1 COUNTY OF SCHENECTADY 50054+30 50058+80 PRIVATE TEMPORARY CONSTRUCTION SCHENECTADY COUNTY ROTTERDAM 48.17-7-3 3324 THOMSON LLC TEMPORARY CONSTRUCTION 50058+80 50061+85 PRIVATE SCHENECTADY COUNTY ROTTERDAM 48.17-7-3 3324 THOMSON LLC 50061+85 PRIVATE 50058+80 PERMANENT 48.17-7-3 ROTTERDAM 3324 THOMSON LLC 50061+85 PRIVATE SCHENECTADY COUNTY 50060+02 TEMPORARY CONSTRUCTION SCHENECTADY COUNTY ROTTERDAM 48.17-7-4 3324 THOMSON LLC 50062+00 50063+00 PRIVATE TEMPORARY CONSTRUCTION SCHENECTADY COUNTY ROTTERDAM 48.17-7-10.11 PARKVIEW AT TICONDEROGA, LLC 50061+85 50065+02 PRIVATE TEMPORARY CONSTRUCTION ROTTERDAM PARKVIEW AT TICONDEROGA, LLC SCHENECTADY COUNTY 48.17-7-10.11 50067+11 PRIVATE 50061+85 PFRMANFNT ROTTERDAM PARKVIEW AT TICONDEROGA, LLC SCHENECTADY COUNTY 48.17-7-10.11 50061+85 50065+02 PRIVATE TEMPORARY CONSTRUCTION DUANESBURG ROAD SCHENECTADY COUNTY ROTTERDAM 50067+68 50067+11 PUBLIC PERMANENT SCHENECTADY COUNTY ROTTERDAM 58.-1-12.111 GOLUB CORPORATION 50067+68 50089+00 PRIVATE PERMANENT ROTTERDAM PRIVATE SCHENECTADY COUNTY 58.-1-12.111 GOLUB CORPORATION 50090+73 TEMPORARY CONSTRUCTION 50070+08 SCHENECTADY COUNTY ROTTERDAM 58.-1-12.111 GOLUB CORPORATION 50070+14 50071+00 PRIVATE TEMPORARY CONSTRUCTION ROTTERDAM SCHENECTADY COUNTY 58.-1-12.111 GOLUB CORPORATION 50094+30 50099+25 PRIVATE TEMPORARY CONSTRUCTION SCHENECTADY COUNTY ROTTERDAM 50098+30 58.-1-12.111 GOLUB CORPORATION 50096+20 PRIVATE PERMANENT SCHENECTADY COUNTY ROTTERDAM 58.-1-12.111 GOLUB CORPORATION 50100+85 50102+40 PRIVATE PFRMANFNT SCHENECTADY COUNTY ROTTERDAM 38.00-1-2.31 NIAGARA MOHAWK POWER CORPORATION 50103+55 PRIVATE PERMANENT 50102+40 SCHENECTADY COUNTY ROTTERDAM 58.-1-12.111 GOLUB CORPORATION 50103+55 50105+09 PRIVATE PERMANENT SCHENECTADY COUNTY ROTTERDAM 58.00-1-2.31 ROTTERDAM VENTURES INC 50108+79 50105+09 PRIVATE PERMANENT SCHENECTADY COUNTY ROTTERDAM 58.00-1-8 ANEEL RAMTEJ 50108+79 50144+50 PRIVATE PERMANENT SCHENECTADY COUNTY ROTTERDAM NEW YORK STATE THROUGHWAY 50144+50 50119+70 PUBLIC PERMANENT SCHENECTADY COUNTY ROTTERDAM PUBLIC TEMPORARY CONSTRUCTION NEW YORK STATE THROUGHWAY 50118+21 50119+70 ROTTERDAM NEW YORK STATE THROUGHWAY 50119+70 PUBLIC TEMPORARY CONSTRUCTION SCHENECTADY COUNTY 50118+31 SCHENECTADY COUNTY ROTTERDAM 58.-2-2.21 JEFFERY BROWN 50118+50 50118+75 PRIVATE TEMPORARY CONSTRUCTION SCHENECTADY COUNTY ROTTERDAM 58.14-1-4.21 LAWRENCE G. WHITE 50119+70 50122+95 PRIVATE PERMANENT SCHENECTADY COUNTY ROTTERDAM PRIVATE TEMPORARY CONSTRUCTION 58.14-1-4.21 LAWRENCE G. WHITE 50119+70 50122+95 SCHENECTADY COUNTY ROTTERDAM 58.14-1-4.111 JACOB SCHUMACHER & ALEXANDER FROST 50122+95 50125+82 PRIVATE PERMANENT SCHENECTADY COUNTY ROTTERDAM 58.14-1-4.111 JACOB SCHUMACHER & ALEXANDER FROST 50122+95 50125+82 PRIVATE TEMPORARY CONSTRUCTION SCHENECTADY COUNTY ROTTERDAM 58.14-1-4.111 JACOB SCHUMACHER & ALEXANDER FROST 50122+95 50125+82 PRIVATE TEMPORARY CONSTRUCTION ROTTERDAM SCHENECTADY COUNTY 58.14-1-4.112 HARVEY CIVIL . & ANN M. NEACH 50125+82 50128+25 PRIVATE PERMANENT SCHENECTADY COUNTY ROTTERDAM 58.14-1-4.112 HARVEY CIVIL . & ANN M. NEACH 50128+25 PRIVATE TEMPORARY CONSTRUCTION 50125+82 HARVEY CIVIL . & ANN M. NEACH SCHENECTADY COUNTY ROTTERDAM 58.14-1-4.112 50125+82 50128+25 PRIVATE TEMPORARY CONSTRUCTION SCHENECTADY COUNTY ROTTERDAM 58.14-1-6 WESTCOTT ENTERPRISES, LLC 50128+25 50130 + 40PRIVATE PERMANENT WESTCOTT ENTERPRISES, LLC TEMPORARY CONSTRUCTION SCHENECTADY COUNTY ROTTERDAM 58.14-1-6 50128+25 50133+50 PRIVATE SCHENECTADY COUNTY ROTTERDAM TEMPORARY CONSTRUCTION 58.18-3-17 LARRY MARTINELLI 50143+55 50147+32 **PRIVATE** SCHENECTADY COUNTY ROTTERDAM 58.18-3-17 LARRY MARTINELLI 50147+62 50149+30 PRIVATE PERMANENT SCHENECTADY COUNTY ROTTERDAM 58.18-3-17 LARRY MATINELLI 50148+52 50149+30 PRIVATE TEMPORARY CONSTRUCTION SCHENECTADY COUNTY ROTTERDAM GUILDERLAND AVE 50149+40 **PUBLIC** TEMPORARY CONSTRUCTION 50149+30 SCHENECTADY COUNTY ROTTERDAM GUILDERLAND AVE 50149+30 50149+40 **PUBLIC** TEMPORARY CONSTRUCTION SCHENECTADY COUNTY ROTTERDAM GUILDERLAND AVE 50149+30 50150+80 PUBLIC PERMANENT SCHENECTADY COUNTY ROTTERDAM 70.6-3-1.1 THE ALGER REVOCABLE TRUST 50153+00 50159 + 45PRIVATE PERMANENT SCHENECTADY COUNTY ROTTERDAM 70.6-3-1.1 THE ALGER REVOCABLE TRUST 50153+00 50159+45 PRIVATE TEMPORARY CONSTRUCTION SCHENECTADY COUNTY ROTTERDAM 70.6-3-1.1 THE ALGER REVOCABLE TRUST 50153+00 50159+45 PRIVATE TEMPORARY CONSTRUCTION ROTTERDAM SCHENECTADY COUNTY 70.-3-5.111 JAMES L BURK 50159+45 50163+11 PRIVATE PERMANENT SCHENECTADY COUNTY ROTTERDAM 70.-3-5.111 JAMES L BURK 50159+45 50161+42 PRIVATE TEMPORARY CONSTRUCTION SCHENECTADY COUNTY ROTTERDAM 70.-3-5.111 JAMES L BURK 50159+45 50176+97 PRIVATE TEMPORARY CONSTRUCTION SCHENECTADY COUNTY ROTTERDAM 70.-3-5.111 JAMES L BURK 50167+30 50176+97 PRIVATE PERMANENT ROTTERDAM SCHENECTADY COUNTY 70.00-3-29 MICHAEL H. GRIESEMER 50176+97 50183+90 PRIVATE PERMANENT SCHENECTADY COUNTY ROTTERDAM 70.00-3-29 MICHAEL H. GRIESEMER 50183+90 TEMPORARY CONSTRUCTION 50176+97 COLLINS REVOCABLE TRUST, RANDOLPH J. SCHENECTADY COUNTY ROTTERDAM 70.-3-22 50183+90 50188+70 PRIVATE TEMPORARY CONSTRUCTION GUILDERLAND COUNTY LINE ROAD (EAST) ALBANY COUNTY 50195+10 50195+61 PUBLIC TEMPORARY CONSTRUCTION ALBANY COUNTY GUILDERLAND COUNTY LINE ROAD 50195+10 50195+61 PUBLIC PERMANENT ALBANY COUNTY GUILDERLAND COUNTY LINE ROAD (WEST) 50195+10 50195+61 PUBLIC TEMPORARY CONSTRUCTION 50207+50 ALBANY COUNTY GUILDERLAND 14.-2-15 MARTHA E. MASTERS 50195+61 PRIVATE TEMPORARY CONSTRUCTION ALBANY COUNTY GUILDERLAND MARTHA E. MASTERS PRIVATE 14.-2-15 50195+61 50200+12 PERMANENT ALBANY COUNTY GUILDERLAND MARTHA E. MASTERS 50206+50 14.-2-15 50203+50 PRIVATE PERMANENT ALBANY COUNTY GUILDERLAND 14.-2-17 VICTOR DEPOALO 50206+50 50210+86 PRIVATE TEMPORARY CONSTRUCTION ALBANY COUNTY GUILDERLAND 14.-2-17 VICTOR DEPOALO 50206+50 50212+00 PRIVATE PERMANENT ALBANY COUNTY GUILDERI AND 14.-2-36.2 STEPHEN ZELEZNIAK 50232+60 50240+12 PRIVATE TEMPORARY CONSTRUCTION

TABLE 4-4 -FACILITY ROW OWNERSHIP FOR SEGMENT 8

START

50000+00

50000+00

50009+63

50011+95

50014+68

50020+71

50021+57

50021+67

50023+70

50034+59

50034+69

50040+88

PROPERTY OWNER

PRINCETOWN ROAD

PRINCETOWN ROAD

PHILIPS ROAD

DELAWARE & HUDSON RAIL COMPANY

1155 PRINCETOWN ROAD, LLC

BURDECK STREET

BURDECK STREET

797 BURDECK ST PROPERTY LLC

797 BURDECK ST PROPERTY LLC

DELAWARE & HUDSON RAILWAY

DELAWARE & HUDSON RAILWAY

KELLER AVE

STATIONING END

50011+95

50005+38

50009+89

50013+25

50015+28

50021+80

50022+17

50022+44

50029+25

50035+24

50035 + 37

50041+84

OWNER TYPE

PUBLIC

PUBLIC

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PRIVATE

PARCEL NUMBER

48.-1-12.11

47.-8-1.111

48.00-3-5

48.00-3-5

48.00-1-12

48.00-1-12

ROTTERDAM

COUNTY

SCHENECTADY COUNTY

Champlain Hudsor

**Power Express** 

TYPE OF EASEMENT

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TEMPORARY CONSTRUCTION (LAYDOWN AREA)

TEMPORARY CONSTRUCTION (LAYDOWN AREA)

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PROPERTY OWNER

YOUMANS ROAD (EAST)

YOUMANS ROAD

YOUMANS ROAD (WEST)

ROBERT A. MENGEL (EAST)

ROBERT A. MENGEL

ROBERT A. MENGEL (WEST)

DENNIS WOOD

DENNIS WOOD

DAVID N. MOREAU

DAVID N. MOREAU

GREGORY DAVID YOUMANS

GREGORY DAVID YOUMANS

ROBERT ECKLES

ROBERT ECKLES

ERIC WUTTKE

ERIC WUTTKE

JAMES J. CRAMER

WHITBECK LANE

NEW SCOTLAND ROAD

NEW SCOTLAND ROAD

LONG FAMILY REVOCABLE TRUST

MARTHA ODEN

LAURA K. MURRAY

LAURA K. MURRAY

NEW SCOTLAND SOUTH ROAD (EAST)

NEW SCOTLAND SOUTH ROAD

NEW SCOTLAND SOUTH ROAD (WEST)

CHESTER BOEHLKE

CHESTER BOEHLKE

CHESTER BOEHLKE

JEAJ, LLC

JEAJ, LLC

BARBARA WRIGHT

GAME FARM ROAD

NIAGARA MOHAWK DBA NATIONAL GRID

MATHIAS KEIB

MATHIAS KEIB

MATHIAS KEIB

CSX TRANSPORTATION INC.

CSX TRANSPORTATION INC.

DELAWARE TURNPIKE

DELAWARE TURNPIKE

WAIDENMAIER ROAD

UNIONVILLE FEURA BUSH ROAD

FLACH PROPERTIES LLC

PARCEL

NUMBER

72.00-3-41.2

72.00-3-41.2

72.00-3-41.2

72.00-3-41.3

72.00-3-41.3

72.00-3-42

72.00-3-42

72.00-3-43

72.00-3-43

72.00-3-41.611

72.00-3-41.611

72.00-3-41.612

72.00-3-41.612

84.00-1-9

84.00-1-26

84.00-1-38.1

84.00-2-49.4

84.00-2-49.4

84.00-4-1.21

84.00-4-1.21

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95.00-3-1.1

95.00-3-3

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95.00-3-42

95.00-3-42

95.00-3-41

95.00-3-41

108.00-1-12

107.00-1-29

108.00-1-12

108.00-1-13

108.00-1-13

108.00-1-13

107.00-1-29

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TABLE 4-4 -FACILITY ROW OWNERSHIP FOR SEGMENT 8

STATIONING | STATIONING

50668+16

50668+16

50668+16

50671+98

50671+98

50670+52

50674+55

50674+55

50675+41

50675 + 41

50677+00

50677+00

50682+54

50682+54

50689+50

50689+00

50691+56

50692+03

50693+22

50693+76

50704+17

50713+00

50731+25

50731+25

50731+88

50731+88

50731+88

50738+42

50735+00

50738+42

50746+92

50746+92

50768+50

50779+92

50791+00

50800+50

50808+33

50809+51

50810+98

50810+98

50811+60

50811+60

50832+74

50838+77

50890+96

50898+71

50898+71

50901+16

50900+67

50900+67

50889+00

50898+00

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50668+16

50668+16

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50671+98

50671+98

50674+55

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50675+41

50675+41

50677+00

50677+00

50682+54

50682+54

50689+50

50691+56

50692+03

50693+27

50693+76

50711+00

50730+25

50730+25

50731+25

50731+25

50731+25

50731+88

50731+88

50736+38

50738+42

50738+42

50764+55

50779+78

50787+63

50796+22

50805+00

50807+02

50809+51

50809+51

50810+98

50810+98

50831+61

50837+95

50885+15

50898+40

50898+40

50900+42

50899+72

50900+00

50883+00

50895+00

50899+00

<u>EQUIPMENT</u>	STAGING	<u>LOCATION</u>	<u>IS AND</u>	<u> WORK</u>	ARE/
TABLE 5□2.	CONSTRUCTION	N MATERIALS	AND EQUI	PMENT ST	AGING

LOCATIONS AND WORK AREAS

STAGING AREA/WORK AREA	SHEET	LOCATION (APPROXIMATE -SEE APPENDIX C FOR FURTHER DETAILS)
HDD 71 Entry Work Area	C-101	STA 50005
HDD 71 Exit Work Area	C-102	STA 50024
HDD 72 Entry Work Area	C-103	STA 50043
HDD 72 Exit Work Area	C-104	STA 50049
Potential Muster Site	C-105	STA 50063
HDD 73 Entry Work Area	C-105	STA 50065
HDD 73 Exit Work Area	C-105	STA 50070
HDD 73.A and 74 Entry Work Area	C-107	STA 50100
Potential Muster Site	C-108	STA 50119
HHD 73.A and 74 Exit Work Area	C-109	STA 50120
HDD 75 Entry Work Area	C-110	STA 50145
HDD 75 Exit Work Area	C-111	STA 50154
HDD 75.A.A Entry Work Area	C-112	STA 50166
HDD 75.A.A Exit Work Area	C-112	STA 50177
HDD 75.A Entry Work Area	C-115	STA 50210
HDD 75.A Exit Work Area	C-116	STA 50234
HDD 75.B Entry Work Area	C-120	STA 50289
HDD 75.B Exit Work Area	C-120	STA 50298
HDD 76 and 76.A Entry Work Area	C-121	STA 50306
HDD 76 and 76.A Exit Work Area	C-122	STA 50328
HDD 77 Entry Work Area	C-123	STA 50333
HDD 77 Exit Work Area	C-124	STA 50347
HDD 78 Entry Work Area	C-126	STA 50382
HDD 78 Exit Work Area	C-127	STA 50403
HDD 79.B Entry Work Area	C-128	STA 50409
HDD 79.B Exit Work Area	C-129	STA 50422
HDD 80 Entry Work Area	C-130	STA 50441
HDD 80 Exit Work Area	C-131	STA 50462
HDD 80.A Entry Work Area	C-137	STA 50549
HDD 80.A Exit Work Area	C-139	STA 50572
HDD 81 Entry Work Area	C-139	STA 50577
HDD 81 Exit Work Area	C-140	STA 50589
HDD 82 and 83 Entry Work Area	C-140	STA 50598
HDD 82 and 83 Exit Work Area	C-142	STA 50616
HDD 83.A Entry Work Area	C-145	STA 50673
HDD 83.A Exit Work Area	C-146	STA 50680
HDD 84 Entry Work Area	C-146	STA 50687
HDD 84 Exit Work Area	C-147	STA 50698
HDD 84.A Entry Work Area	C-149	STA 50728
HDD 84.A Exit Work Area	C-150	STA 50739
HDD 84.B Entry Work Area	C-152	STA 50777
HDD 84.B Exit Work Area	C-153	STA 50788
HDD 85 Entry Work Area	C-154	STA 50806
HDD 85 Exit Work Area	C-155	STA 50824
HDD 87 Entry Work Area	C-156	STA 50830
<u> </u>		
HDD 87 Exit Work Area	C-15/	SIA 50844
HDD 87 Exit Work Area HDD 87.A.A Entry Work Area	C-157 C-160	STA 50844 STA 50890

# <u>SEGMENT 8 - ACCESS ROADS</u>

		TABLE 4-6 - SEGMENT	8 ACCESS ROADS	
ACCESS ROAD/ROUTE NUMBER	TEMPORARY OR PERMANENT	SHEET	LOCATION (APPROXIMATE) -SEE DRAWINGS FOR DETAILS	SENSITIVE AREAS CROSSED (AG OR WETLANDS)
5A-01-RD	TEMPORARY	C-201	STA 50041	NONE
5A-03-RD	TEMPORARY	C-202	STA 50149	WETLAND
5A-04-RD	TEMPORARY	C-202	STA 50253	WETLAND
5A-05-RD	TEMPORARY	C-203 to C-205	STA 50345	WETLAND
5A-06-RD	TEMPORARY	C-206	STA 50333	WETLAND
5A-08-RD	TEMPORARY	C-207	STA 50371	WETLAND
5A-09-RD	TEMPORARY	C-207	STA 50473	WETLAND
5A-10-RD	TEMPORARY	C-208	STA 50550	AGRICULTURE, WETLAND
5A-11-RD	TEMPORARY	C-208	STA 50648	WETLAND
5A-12-RD	TEMPORARY	C-209	STA 50701	NONE
5A-13-RD	TEMPORARY	C-210	STA 50807	NONE
5A-14-RD	TEMPORARY	C-210	STA 50829	NONE
5A-15-RD	TEMPORARY	C-211	STA 50843	WETLAND
5A-01-RTE	TEMPORARY	C-212	STA 50057	NONE
5A-02-RTE	TEMPORARY	C-212	STA 50064	NONE
5A-03-RTE	TEMPORARY	C-213	STA 50084	NONE
5A-04-RTE	TEMPORARY	C-214	STA 50305	NONE
5A-06-RTE	TEMPORARY	C-215	STA 50383	NONE
5A-07-RTE	TEMPORARY	C-216	STA 50443	NONE
5A-08-RTE	TEMPORARY	C-217 through C-219	STA 50473	NONE
5A-09-RTE	TEMPORARY	C-220 and C-221	STA 50550	NONE
5A-10-RTE	TEMPORARY	C-222	STA 50616	NONE
5A-11-RTE	TEMPORARY	C-223	STA 50698	NONE
5A-12-RTE	TEMPORARY	C-224	STA 50898	NONE

TABLE 4-6 SUMMARIZES THE ACCESS ROADS IN THIS PACKAGE AND THEIR ASSOCIATED IMPACTS ON ENVIRONMENTALLY SENSITIVE AREAS AND AGRICULTURAL LANDS IF APPLICABLE. SECTION 4.10 OF THE EM&CP SUMMARIZES THE PROCEDURES THAT WILL BE FOLLOWED FOR THE CONSTRUCTION OF ALL ACCESS ROADS. ALL ACCESS ROADS WILL BE TEMPORARY AND RESTORED ACCORDING TO SECTION 14.2.4 AND 14.4.1 OF THE EM&CP AS APPLICABLE.

# <u>SEGMENT 8 - AGRICULTURAL LANDS</u>

	TABLE 7-1 AGRICULTURAL LANDS				
AGRICULTURAL LAND DESCRIPTION	PARCEL NUMBER	PLAN AND PROFILE (APPENDIX C) SHEET NUMBER	STATION (APPROXIMATE -SEE APPENDIX C FOR DETAILS)	ANTICIPATED IMPACTS TO AGRICULTURAL ACTIVITIES/LAN	
AGRICULTURAL LAND #1	26.00-3-18	C-118 AND C-119	STA 50268+59 TO 50271+05	THE TRENCH CONSTRUCTION IS OUTSIDE OF THE REGULATED AGRICULTURAL AREA. GRADING WILL ONLY IMPACT THE EDGE OF TH AGRICULTURAL FIELD. ALL BMPS OUTLINED IN SECTION 7.1 AND RESTORATION REQUIREMENTS IN SECTION 14.5 WILL BE FOLLOWED.	
AGRICULTURAL LAND #2	26.00-3-34	C-119 AND C-120	STA 50282+78 TO 50291+23	THE TRENCH CONSTRUCTION WILL ONLY IMPACT THE EDGE OF THE AGRICULTURAL FIELD. THE AGRICULTURAL TRENCH DETAIL ON SHEE C-621 WILL BE UTILIZED. THE HDD WORK AREA WILL UTILIZE ALL BMPS OUTLINED IN SECTION 7.1 AND RESTORATION REQUIREMENTS SECTION 14.5 WILL BE FOLLOWED.	
AGRICULTURAL LAND #3	61.00-1-26.3	C-135	STA 50514+80 TO 50522+07	THE TRENCH CONSTRUCTION WILL ONLY IMPACT THE EDGE OF THE AGRICULTURAL FIELD. SPLICE LOCATION 171 WILL REMAIN AS CLOS TO THE EDGE OF THE FIELD AS POSSIBLE. TOPSOIL WILL BE STRIPPED, AND THE AREA WILL BE GRAVELED OR TIMBER MATTING WILL BE USED. ALL BMPS OUTLINED IN SECTION 7.1 AND RESTORATION REQUIREMENTS IN SECTION 14.5 WILL BE FOLLOWED.	
AGRICULTURAL LAND #4	61.00-1-29 AND 61.00-3-16.1	C-137	STA 50547+07 TO 50553+51	A VERY SMALL PORTION OF AN HDD WORK AREA IS WITHIN THE REGULATED AGRICULTURAL AREA. TEMPORARY ACCESS ROAD 5A-10-RD WILL UTILIZE TOPSOIL STRIPPING AND GRAVELLING OR TIMBER MATTING. ALL BMPS OUTLINED IN SECTION 7.1 AND RESTORATION REQUIREMENTS IN SECTION 14.5 WILL BE FOLLOWED.	
AGRICULTURAL LAND #5	72.00-3-41.51	C-144	STA 50647+92 TO 50667+96	THE TRENCH CONSTRUCTION WILL ONLY IMPACT THE EDGE OF THE AGRICULTURAL FIELD. SPLICE LOCATION 176 AND THE ASSOCIATED WORK AREA WILL REMAIN AS CLOSE TO THE EDGE OF THE FIELD A POSSIBLE. THE ACCESS ROAD COMING INTO THIS PORTION WILL BE STRIPPED AND GRAVELED OR USE TIMBER MATTING. ALL BMPS OUTLINED IN SECTION 7.1 AND RESTORATION REQUIREMENTS IN SECTION 14.5 WILL BE FOLLOWED.	
AGRICULTURAL LAND #6	84.00-1-44.2 AND 95.00-3-1.1	C-151 AND C-152	STA 50754+87 TO 50773+24	ALL TRENCHING OCCURS OUTSIDE THE REGULATED AGRICULTURAL AREA. SPLICE LOCATION 180 AND ITS ASSOCIATED WORK AREA WILL REMAIN AS CLOSE TO THE EDGE OF THE FIELD AS POSSIBLE AND UTILIZE GRAVEL OR TIMBER MATTING. ALL BMPS OUTLINED IN SECTION 7.1 AND RESTORATION REQUIREMENTS IN SECTION 14.5 WILL BE FOLLOWED.	
AGRICULTURAL LAND #7	95.00-3-5 AND 95.00-3-42	C-154	STA 50797+53 TO 50806+87	A TEMPORARY WORK AREA WILL BE THE ONLY IMPACT TO THE REGULATED AGRICULTURAL AREA AND WILL BE GRAVELED OR USE TIMBER MATTING. SPLICE LOCATION 181 WILL REMAIN AS CLOSE TO THE EDGE OF THE FIELD AS POSSIBLE. ANY GRADING WILL FOLLOW ALL BMPS OUTLINED IN SECTION 7.1 AND RESTORATION REQUIREMENTS IN SECTION 14.5 WILL BE FOLLOWED.	

AS SHOWN DATE



FOR INFORMATION, SEE AND CONSTRUCTION PLAN NARRATIVE

		CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM	KIEWIT PROJECT NO. 21162
		EM&CP TABLES 3 OF 7	DRAWING NO.
06/00/2022	SSUED FOR CONSTRUCTION SUBMISSION		G-012

**DESIGNED BY:** 

APPROVED BY:

DB APP DRAWN BY:

DATE SUBMITTAL / REVISION DESCRIPTION

	TABLE 7-2 -RECREATIONAL AREAS				
MUNICIPALITY	RECREATIONAL AREA	SHEET	LOCATION (APPROXIMATE -SEE DRAWINGS FOR DETAILS)		
VILLAGE OF VOORHEESVILLE	VOORHEESVILLE VILLAGE PARK	C-141	STA 50599 TO 50604		
VILLAGE OF VOORHEESVILLE	ALBANY RAIL TRAIL	C-140	STA 50587		

# SEGMENT 8 - TERMS AND DEFINITIONS FROM BMP DOCUMENT SECTION 5.2

	TABLE 8-1. TERMS AND DEFINITIONS FROM BMP DOCUMENT SECTION 5.2				
TERM	DEFINITION				
CLEARING	THE CUTTING AND PHYSICAL REMOVAL, EITHER BY HAND OR MECHANICAL MEANS, OF ALL VEGETATION FROM THE WORK AREA				
GRUBBING	THE MECHANICAL REMOVAL OF THE STUMP AND ROOT MASS OF FELLED WOODY VEGETATION				
SLASH	SHRUBS, SAPLINGS, AND TOPS OF TREES 4 INCHES IN DIAMETER OR LESS AT THE LARGE END FOR HARDWOOD AND 6 INCHES IN DIAMETER OR LESS AT THE LARGE END FOR SOFTWOODS.				
STUMPS	THE WOODY STEM AND FIBROUS ROOT MASS LEFT IN THE SOIL AFTER REMOVING THE TRUNK AT THE BUTT.				
TIMBER/LOGS	TRUNKS AND LIMBS GREATER THAN 6 INCHES IN DIAMETER AT THE SMALL END, WITH A MINIMUM 8-FOOT LENGTH.				

# <u>SEGMENT 8 - TREE AND VEGETATION CLEARING METHODS</u>

	OLOMEITI O TITLE 7110 TEGET/TITOTT GEE/TITOTO			
	TA	BLE 8-2. TREE AND VEGETATION CLEARING METHODS		
METHOD TYPE	METHOD TITLE	METHOD DESCRIPTION		
TYPE I	HAND CUTTING (HC)	THIS METHOD EMPLOYS A HAND-HELD CHAIN SAW. IT IS SELECTIVE BUT IS SLOWER AND MORE EXPENSIVE THAN MOTORIZED MECHANICAL DEVICES. RESIDENTIAL AREAS, BUFFER ZONES, WETLANDS, AND HIGHWAY SCREENS ARE AREAS WHERE HAND CUTTING IS TYPICALLY PRESCRIBED. *MECHANIZED TREE CLEARING WILL BE UTILIZED IN SELECT SCENARIOS WHERE HAND CLEARING IS DEEMED UNSAFE OR UNFEASIBLE. ALL MECHANIZED CLEARING IN WETLANDS WILL BE DONE UTILIZING APPROVED TEMPORARY WETLAND ACCESS METHODS (SEE SECTION 4.10.2).		
TYPE II	MECHANICAL CLEARING MACHINE (HA)	THIS TERM USUALLY REFERS TO A MACHINE KNOWN AS THE HYDRO-AX OR KERSHAW MOWER. THIS MACHINE CAN CUT TREES UP TO TEN (10) INCHES IN DIAMETER AT THE RATE OF SEVERAL ACRES A DAY, DEPENDING ON STEM DENSITY AND TERRAIN. IT IS ESSENTIALLY NONSELECTIVE AND A GOOD DEVICE FOR CLEARING RIGHTS-OF-WAY THAT ARE COMPOSED OF YOUNG UNDESIRABLE SPECIES IN A RELATIVELY UNIFORM STAND.		
TYPE III	MOWING	THIS TECHNIQUE IS PRIMARILY USED IN AREAS OF HERBACEOUS VEGETATION. TERRAIN MUST BE RELATIVELY FLAT WITH NO GULLIES OR ROCKS.		
TYPE IV	MECHANICAL WHOLE—TREE FELLING EQUIPMENT	THIS METHOD ALLOWS CONTROLLED FELLING AND LOADING OF WHOLE TREES WHILE MINIMIZING DAMAGE TO ADJACENT TREES. WHERE VEGETATION IS CLEARED, EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED AND MONITORED UNTIL THE TOPSOIL IS STABILIZED AND CAN SUPPORT GRASSY VEGETATION.		

NOTE: TABLE 8.4.1 SUMMARIZES THE LOCATION AND CLEARING TYPE THAT WILL OCCUR WITHIN THIS PACKAGE. SECTION 8.0 AND 8.1 OF THE EM&CP SUMMARIZES THE CLEARING METHODS AND PROCEDURES FOR VEGETATION AND TREE CLEARING AND REMOVAL INCLUDING STANDARDS AND SPECIFICATIONS FOR CLEARING IN ENVIRONMENTALLY SENSITIVE AREAS.

- . WETLANDS: SECTION 8.2.1 AND SECTION 9.1 OF THE EM&CP
- 2. STREAM CROSSING: SECTION 8.2.1 AND SECTION 9.1 OF THE EM&CP. 3. VISUALLY SENSITIVE AREAS SECTION 8.3.2 OF THE EM&CP
- 4. AGRICULTURAL LANDS: SECTION 8.2.2 OF THE EM&CP.

# <u>SEGMENT 8 - TREE AND VEGETATION DISPOSAL METHODS</u>

TABLE 8-3. TREE AND VEGETATION DISPOSAL METHODS				
METHOD TYPE	METHOD TITLE	METHOD DESCRIPTION		
TYPE A	CONSTRUCTION USE	LOGS MAY BE UTILIZED AS NEEDED DURING CONSTRUCTION FOR WETLAND ACCESS, CRIBBING, RETAINING WALLS, OR OTHER USES. FOLLOWING USE, ANY LOGS UNSUITABLE FOR FIREWOOD, SAW LOGS, OR CHIPPING WILL BE TRANSPORTED OFF THE RIGHT—OF—WAY TO AN APPROVED DISPOSAL SITE.		
TYPE B	LOG PILES	LOGS NOT NEEDED FOR CONSTRUCTION WILL BE REMOVED FROM THE RIGHT-OF-WAY TO AN APPROVED DISPOSAL AREA.		
TYPE C	SALE	WHERE SUFFICIENT MERCHANTABLE VOLUME EXISTS ON THE SITE, LOGS MAY BE SOLD TO A THIRD PARTY. WHERE APPROPRIATE AND PRACTICAL, AND WITH THE AGREEMENT OF LANDOWNERS, UNSOLD LOGS WILL BE HAULED TO ACCESSIBLE LOCATIONS FOR SALVAGE BY THE GENERAL PUBLIC IN ACCORDANCE WITH THE SUBSTANTIVE REQUIREMENTS OF 6 NYCRR PART 192.5, FIREWOOD RESTRICTIONS TO PROTECT FORESTS FROM INVASIVE SPECIES.		
TYPE D	TREE/LOG CHIPPING	WHEN LOGS CANNOT BE REUSED OR SOLD, THEY WILL BE CHIPPED ON SITE. THE RESULTING WOOD CHIPS WILL BE PILED IN UPLAND AREAS WITHIN THE RIGHT-OF-WAY OR TRANSPORTED OFF RIGHT-OF-WAY TO AN APPROVED DISPOSAL SITE. WOOD CHIPS WILL BE SPREAD THREE (3) TO FIVE (5) INCHES THICK WITH FERTILIZER SPREAD OVER THE CHIPS TO MINIMIZE SOIL NITROGEN DEPLETION DUE TO CELLULOSE DECOMPOSITION.		
TYPE E	VEGETATION CHIPPING	VEGETATION MAY BE CHIPPED TO REDUCE DEBRIS VOLUME.		
TYPE F	VEGETATION HAULING	VEGETATION AND STUMPS MAY BE HAULED TO A NYSDEC APPROVED LANDFILL OR OTHER SUITABLE OFF—SITE LOCATION WITH THE APPROVAL OF THE LANDOWNER AND ALL APPLICABLE PERMITTING AGENCIES.		
TYPE G	VEGETATION BURIAL	STUMPS MAY BE BURIED ON THE RIGHT-OF-WAY WITH LANDOWNER AGREEMENT. THE BURIAL AREAS WILL BE SUFFICIENTLY COMPACTED AND MONITORED AFTER CONSTRUCTION TO ASSURE THAT SETTLING DOES NOT OCCUR. WHERE SIGNIFICANT SETTLING AFTER CONSTRUCTION HAS BEEN IDENTIFIED BY THE CONSTRUCTION INSPECTOR ET. AL., FINISHED GRADE WILL BE RE-ESTABLISHED USING LOCALLY OBTAINED RUN-OF-BANK MATERIAL AND/OR TOPSOIL AND RE-SEEDED AS APPROPRIATE AS SPECIFIED IN SECTIONS 14.2. AREAS WHERE SIGNIFICANT AMOUNTS OF STUMP BURIAL OCCURS WILL BE NOTED ON AS-BUILT DRAWINGS, AND MONITORED FOR SETTLING DURING ROW CONDITION SURVEYS AND MAINTENANCE ACTIVITIES.		

1. SECTION 8.4 OF THE EM&CP SUMMARIZES THE TREE AND VEGETATION DISPOSAL PROCEDURES FOR THIS SEGMENT. NO BURNING OF ANY VEGETATIVE OR TREE DEBRIS IS PERMITTED WITHIN THE WORK AREAS OF THIS SEGMENT. ALL APPLICABLE NYSDEC REGULATIONS REGARDING INVASIVE SPECIES WILL BE FOLLOWED WHEN DISPOSING OF VEGETATION.





# <u>SEGMENT 8 - VEGETATION AND TREE CLEARING LOCATIONS</u>

	TABLE 8-4 VEGETATION AND 1	TREE CLEARING LOCATIO	NS
SHEET	LOCATION (APPROXIMATE -SEE APPENDIX C FOR DETAILS)	CLEARING METHOD TYPE	ENVIRONMENTALLY SENSITIVE AREA(S
C-401	STA 50022 TO 50030	TYPE I	NONE
C-402	STA 50030 TO 50043	TYPE IV	NONE
C-402	STA 50052 TO 50059	TYPE I	NONE
C-403	STA 50060 TO 50064	TYPE I	NONE
	STA 50070 TO 50074		
C-403	STA 50075 TO 50090	TYPE I	WETLAND
C-404	STA 50090 TO 50100	TYPE IV	NONE
C-404	STA 50119	TYPE IV	NONE
C-405	STA 50121 TO 50123+50	TYPE IV	NONE
C-405	STA 50126 TO 50132	TYPE I	WETLAND
C-405	STA 50132 TO 50135	TYPE IV	NONE
C-405	STA 50135 TO 50137	TYPE I	WETLAND
C-405	STA 50137 TO 50139	TYPE IV	NONE
C-405	STA 50139 TO 50149	TYPE I	WETLAND
C-406	STA 50154 TO 50165	TYPE I	WETLAND
C-406	STA 50165 TO 50168+50	TYPE I	WETLAND
C-406	STA 50176 TO 50180	TYPE I	WETLAND
C-407	STA 50180 TO 50195	TYPE I	WETLAND
C-407	STA 50195 TO 50210	TYPE I AND IV	WETLAND
C-408	STA 50233 TO 50240	TYPE IV	NONE
C-409	STA 50240 TO 50255	TYPE I AND IV	WETLAND
C-409	STA 50255 TO 50270	TYPE I AND IV	WETLAND
C-410	STA 50270 TO 50285	TYPE I AND IV	WETLAND
C-410	STA 50285 TO 50291	TYPE IV	NONE
C-410	STA 50298 TO 50300	TYPE I AND IV	WETLAND
C-411	STA 50300 TO 50307	TYPE I AND IV	WETLAND
C-411	STA 50327+50 TO 50330	TYPE I	WETLAND
C-412	STA 50330 TO 50345	TYPE I AND IV	WETLAND
C-412	STA 50345 TO 50360	TYPE I AND IV	WETLAND
C-413	STA 50360 TO 50361	TYPE IV	NONE
C-413	STA 50364 TO 50375	TYPE IV	NONE
C-413	STA 50375 TO 50381	TYPE I AND IV	WETLAND
C-415	STA 50424 TO 50435	TYPE I	WETLAND
C-415	STA 50435 TO 50443	TYPE I	WETLAND
C-416	STA 50461+50 TO 50465	TYPE I	WETLAND
C-416	STA 50465 TO 50478	TYPE I	WETLAND

FOR INFORMATION, SEE ENVIRONMENTAL MANAGEMENT AND CONSTRUCTION PLAN NARRATIVE.

T	TABLE 8-4 VEGETATION AND TR	REE CLEARING LOCATIO	NS
SHEET	LOCATION (APPROXIMATE -SEE APPENDIX C FOR DETAILS)	CLEARING METHOD TYPE	ENVIRONMENTALLY SENSITIVE AREA(S)
C-417	STA 50493 TO 50494	TYPE I	WETLAND
C-417	STA 50497	TYPE I	WETLAND
C-417	STA 50499 TO 50510	TYPE I	WETLAND
C-418	STA 50510 TO 50525	TYPE I	WETLAND, AGRICULTURE
C-418	STA 50525 TO 50540	TYPE I AND IV	WETLAND
C-419	STA 50540 TO 50552	TYPE I AND IV	WETLAND, AGRICULTURE
C-420	STA 50572 TO 50579	TYPE IV	NONE
C-420	STA 50588 TO 505600	TYPE IV	NONE
C-421	STA 50600 TO 50601	TYPE IV	NONE
C-421	STA 50616 TO 50630	TYPE IV	NONE
C-422	STA 50630 TO 50645	TYPE IV	NONE
C-422	STA 50645 TO 50660	TYPE IV	AGRICULTURE
C-423	STA 50660 TO 50675	TYPE I AND IV	WETLAND
C-423	STA 50675 TO 50690	TYPE I AND IV	WETLAND
C-424	STA 50690; 50698 TO 50705	TYPE IV	NONE
C-424	STA 50705 TO 50720	TYPE I AND IV	WETLAND
C-425	STA 50720 TO 50735	TYPE I AND IV	WETLAND
C-425	STA 50735 TO 50750	TYPE I	WETLAND
C-426	STA 50750 TO 50764	TYPE I AND IV	WETLAND
C-426	STA 50765 TO 50780	TYPE I AND IV	WETLAND
C-427	STA 50788 TO 50795	TYPE IV	NONE
C-427	STA 50795 TO 50810	TYPE I AND IV	WETLAND, AGRICULTURE
C-428	STA 50810; 50823 TO 50825	TYPE I AND IV	NONE
C-428	STA 50825 TO 50833	TYPE I	NONE
C-429	STA 50843 TO 50855	TYPE I AND IV	WETLAND
C-429	STA 50855 TO 50860	TYPELL AND IV	WETLAND
C-430	STA 50870 TO 50885	TYPE I AND IV	WETLAND
C-430	STA 50885 TO 50886; 50897 TO 50900	TYPE I AND IV	WETLAND
C-202	5A-03-RD	TYPE IV	NONE
C-202	5A-04-RD	TYPE I	WETLAND
C-203 TO C-205	5A-05-RD	TYPE I AND IV	WETLAND
C-206	5A-06-RD	TYPE IV	NONE
C-208	5A-10-RD	TYPE I AND IV	WETLAND
C-210	5A-13-RD	TYPE I AND IV	NONE
C-210	5A-14-RD	TYPE I	WETLAND
C-211	5A-15-RD	TYPE I	WETLAND

0 06/09/2023 ISSUED FOR CONSTRUCTION SUBMISSION

DATE SUBMITTAL / REVISION DESCRIPTION

CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM EM&CP TABLES 4 OF 7

DB APP DRAWN BY:

DRAWING NO. G-013

KIEWIT PROJECT NO.

AS SHOWN DATE

APPROVED BY:

DESIGNED BY:

# <u>SEGMENT 8 - IMPACTS TO WETLANDS</u>

TABLE 9-1. SUMMARY OF WATERBODY IMPACTS								
APPROXIMATE STATION	WATER-BODY NAME	NYSDEC CLASSIFICATION	WATERBODY FIELD ID	FLOW STATUS	AVOIDANCE AND MINIMIZATION MEASURE	DISTANCE OF SEPARATION FROM CULVERT (FEET)	PERMANENT ROW IMPACT (LF)	TEMPORARY CONSTRUCTION ROW IMPACT (LF)
50014+00	POENTIC KILL	B/B	S1A	PERENNIAL	HDD	-	_	_
50014+00	UNNAMED TRIBUTARY TO HUDSON RIVER	UNMAPPED	S2A	INTERMITTENT	HDD	-	-	-
50110+60	UNNAMED TRIBUTARY TO HUDSON RIVER	UNMAPPED	G-R-S-D	INTERMITTENT	HDD	_	-	-
50125+50	UNNAMED TRIBUTARY TO HUDSON RIVER	C/C(T)	G-R-S-E	PERENNIAL	-	-	_	94.28
50160+50	UNNAMED TRIBUTARY TO HUDSON RIVER	c/c	CS33	INTERMITTENT	AVOIDED VIA CULVERT	MINIMUM 5'	_	_
50204+50	UNNAMED TRIBUTARY TO HUDSON RIVER	c/c	S3A	INTERMITTENT	AVOIDED VIA CULVERT	MINIMUM 5'	_	_
50219+20	UNNAMED TRIBUTARY TO HUDSON RIVER	c/c	S1	PERENNIAL	AVOIDED VIA CULVERT	MINIMUM 5'	_	-
50225+35	UNNAMED TRIBUTARY TO HUDSON RIVER	c/c	S2	INTERMITTENT	HDD	-	_	_
50230+25	UNNAMED TRIBUTARY TO HUDSON RIVER	UNMAPPED	S3	INTERMITTENT	HDD	-	_	_
50251+10	UNNAMED TRIBUTARY TO HUDSON RIVER	c/c	S4	INTERMITTENT	AVOIDED VIA CULVERT	MINIMUM 5'	_	-
50270+50	UNNAMED TRIBUTARY TO HUDSON RIVER	c/c	S5	PERENNIAL	AVOIDED VIA CULVERT	MINIMUM 5'	_	-
50281+90	UNNAMED TRIBUTARY TO HUDSON RIVER	UNMAPPED	S6	INTERMITTENT	AVOIDED VIA CULVERT	MINIMUM 5'	-	-
50294+15	UNNAMED TRIBUTARY TO HUDSON RIVER	UNMAPPED	P5-S2	PERENNIAL	HDD	-	_	-
50296+70	UNNAMED TRIBUTARY TO HUDSON RIVER	c/c	P5-S1	INTERMITTENT	HDD	-	_	_
50321+50	UNNAMED TRIBUTARY TO HUDSON RIVER	UNMAPPED	P5-SD	INTERMITTENT	-	-	_	68.32
50363+00	NORMANS KILL	B/B	NORMANS KILL	PERENNIAL	AVOIDED VIA BRIDGE ATTACH		_	-
50412+50	UNNAMED TRIBUTARY TO HUDSON RIVER	UNMAPPED	P5-S4	PERENNIAL	AVOIDED VIA CULVERT	MINIMUM 5'	_	_
50414+50	BLACK CREEK	c/c	G-R-S-A	PERENNIAL	HDD	-	_	_
50469+00	UNNAMED TRIBUTARY TO HUDSON RIVER	UNMAPPED	G-R-S-C	INTERMITTENT	AVOIDED VIA CULVERT	MINIMUM 5'	_	-
50475+60	UNNAMED TRIBUTARY TO HUDSON RIVER	UNMAPPED	G-R-S-B	INTERMITTENT	-	-	_	28.87
50581+15	UNNAMED TRIBUTARY TO HUDSON RIVER	c/c	AL	INTERMITTENT	HDD	-	_	-
50583+50	UNNAMED TRIBUTARY TO HUDSON RIVER	UNMAPPED	AJ	INTERMITTENT	HDD	_	_	_
50601+50	VLY CREEK	C/C(TS)	AG	PERENNIAL	HDD	_	_	_
50664+50	UNNAMED TRIBUTARY TO HUDSON RIVER	c/c	AA	INTERMITTENT	_	_	_	80.62
50676+00	UNNAMED TRIBUTARY TO HUDSON RIVER	c/c	V	PERENNIAL	HDD	_	_	43*
50678+00	UNNAMED TRIBUTARY TO HUDSON RIVER	UNMAPPED	U	INTERMITTENT	_			
50689+20	UNNAMED TRIBUTARY TO HUDSON RIVER	UNMAPPED	T	INTERMITTENT	HDD	_	_	_
50692+25	UNNAMED TRIBUTARY TO HUDSON RIVER	UNMAPPED	Y	INTERMITTENT	HDD		-	-
50717+60	UNNAMED TRIBUTARY TO VLOMAN KILL	UNMAPPED	CS3	INTERMITTENT	AVOIDED VIA CULVERT	MINIMUM 5'	-	-
50732+60	UNNAMED TRIBUTARY TO HUDSON RIVER	C/C	CS2	INTERMITTENT	AVOIDED VIA CULVERT	MINIMUM 5'	-	-
50746+20	UNNAMED TRIBUTARY TO HUDSON RIVER	C/C	CS1	INTERMITTENT	_	_	-	100
50781+65	UNNAMED TRIBUTARY TO HUDSON RIVER	C/C	EDR STE	PERENNIAL	HDD	_	_	_
50815+75	UNNAMED TRIBUTARY TO HUDSON RIVER	UNMAPPED	EDR STD	PERENNIAL	AVOIDED VIA CULVERT	MINIMUM 5'	-	-
50818+15	UNNAMED TRIBUTARY TO HUDSON RIVER	C/C	EDR STC	PERENNIAL	AVOIDED VIA CULVERT	MINIMUM 5'	-	_
50832+90	UNNAMED TRIBUTARY TO HUDSON RIVER	C/C	EDR STB	PERENNIAL	AVOIDED VIA CULVERT	MINIMUM 5'	_	_
50834+40	UNNAMED TRIBUTARY TO HUDSON RIVER	C/C	P5-S6	INTERMITTENT	HDD	_	-	_
50850+00	UNNAMED TRIBUTARY TO HUDSON RIVER	UNMAPPED	P5-S5	PERENNIAL	AVOIDED VIA CULVERT	MINIMUM 5'	_	_
50857+75	UNNAMED TRIBUTARY TO HUDSON RIVER	UNMAPPED	P5A-S1	INTERMITTENT	_	_		186
				TOTAL				558.09

		DRAWING		PERMANENT	TEMPORARY	PERMANENT STATE REGULATED	TEMPORAR' STATE REGULATEI
WETLAND COMMUNITY STATION (APPENDIX C)		JURISDICTION ROW CONSTRUCTION IMPACTS (SQUARE FEET) FEET)		IMPACTS (SQUARE	ADJACENT AREA IMPACTS (SQUARE FEET)	ADJACENT AREA IMPACTS (SQUARE FEET)	
G-R-B	PFO	50069+00	USACE	4.49	_	_	_
G-R-C	PF0	50087+00	USACE	23.27	27,240.94	_	_
P5-DB	PEM	50095+00	USACE	_	7.16	_	_
P5-Y	PFO	50096+50	USACE	_	898.71	_	_
G-R-E	PEM	50122+00	USACE	_	4,970.96	_	_
G-R-E	PSS	50122+00	USACE	_	40,435.39	_	_
P5-V	PEM	50132+30	USACE	_	347.33	_	_
G-R-F	PFO	50135+00	USACE	1,340.99	9,235.92	_	_
G-R-G	PF0	50139+00	USACE	5,123.56	32,726.01	_	_
CH	PEM	50145+00	USACE	_	10,614.99	_	_
CH	PSS	50145+00	USACE	_	14,794.83	_	_
P5-W	PEM	50146+65	USACE	_	2,468.38	_	_
GCI	PF0	50159+00	USACE	_	373.05	_	_
Cl	PEM	50160+00	USACE	_	3,314.14	_	_
CI	PSS	50160+00	USACE	_	6,492.39	_	_
CJ	PEM	50164+00	USACE	_	28,700.94	_	_
CK	PEM	50172+00	USACE	10.219.40	23,526.30	_	
CK	PF0	50172+00	USACE	10,218.40	98,704.20 15,488.27	_	<del>-</del>
CK	PSS	50172+00	USACE	_	17,373.97	-	
L M	PEM PFO	50198+00 50203+50	USACE USACE	107 66101	3,466.56	_	<del>-</del>
M	PSS	50203+50	USACE	197.66191	3,791.68		<u>-</u>
M G5−E	PSS	50203+30	USACE	_	14,176.30		
FA-FN	PEM	50252+00	USACE	_	1,902.28		
FA-FN	PSS	50252+00	USACE	_	15,718.64	_	_
FA-FO	PEM	50254+50	USACE	_	6,771.35	_	
P	PEM	50257+00	USACE	_	6,681.02	_	_
 Q	PEM	50258+00	USACE	_	2,902.24	_	_
Q	PF0	50258+00	USACE	959.51	22,881.38	_	_
P5-U2	PSS	50270+50	USACE	_	873.54	_	_
P5-V2	PEM	50274+00	USACE	_	2,026.38	_	_
R	PEM	50278+00	USACE	_	13,065.88	_	_
P5-CC	PEM	50289+50	USACE	_	1,241.70	_	_
S	PEM	50299+50	USACE	_	5,347.18	_	_
P5-BB	PSS	50300+00	USACE	_	637.54	_	_
P5-AA	PFO	50301+00	USACE	_	6,216.60	_	_
P5-AA	PSS	50301+00	USACE	_	24,176.70	_	_
P5-D	PSS	50314+00	USACE	_	2,768.08	-	
P5-E	PF0	50316+00	USACE	-	8,190.81	_	
Т	PSS	50327+60	USACE	_	8,415.98	_	_
P5-G	PSS	50331+00	USACE	_	2,442.63	_	-
P5-H	PSS	50333+00	USACE	_	1,522.71	_	_
P5-I	PEM	50334+00	USACE	_	1,973.36	_	_
P5-Q2	PEM	50336+00	USACE	_	1,818.75	_	-
P5-J	PEM	50339+00	USACE	_	1,611.21	_	_
U	PF0	50343+00	USACE	1 700 00	6,786.05	_	_
V	PF0	50352+00	USACE	1,390.69	11,158.21	_	<del>-</del>
FJ W	PEM	50366+50	USACE	_	3,685.00	_	_
W	PEM	50367+00	USACE	_	3,718.44	_	_
X	PEM	50375+00 50378+50	USACE	_	3,116.73	_	_
Y Z	PEM	50378+50 50386+00	USACE	_	3,813.69	_	
	PEM	50386+00	USACE &	_	94.1	_	
G-R-A	PEM	50468+00	NYSDEC	_	73,277.14	_	5,715.90
G-R-A	PSS	50468+00	USACE & NYSDEC	_	85,826.13	<del>-</del>	
CA	PEM	50503+00	USACE	_	60,280.56	_	
DA	PEM	50523+00	USACE	_	22,046.93	_	_
P5-S	PFO	50525+00	USACE	3,296.89	23,076.86	_	_
P5-T	PFO	50546+00	USACE	899.18	6,127.76	_	

WETLAND ID	WETLAND COMMUNITY TYPE	DRAWING APPROXIMATE STATION (APPENDIX C)	JURISDICTION	PERMANENT ROW IMPACTS (SQUARE FEET)	TEMPORARY CONSTRUCTION IMPACTS (SQUARE FEET)	PERMANENT STATE REGULATED ADJACENT AREA IMPACTS (SQUARE FEET)	TEMPORAR STATE REGULATE ADJACEN AREA IMPACTS (SQUARE FEET)
P5A-GG	PEM	50549+00	USACE	_	18,854.73	_	_
P5A-GG	PFO	50549+00	USACE	19.952508	1,745.27	_	_
FA-AC	PEM	50636+00	USACE	_	3,004.99	_	_
FA-Z	PEM	50665+25	USACE	ı	2,962.29	ı	_
FA-W	PSS	50676+50	USACE	-	4,461.44	-	_
CS	PEM	50700+00	USACE	_	3,278.59	_	_
CS	PF0	50700+00	USACE	11,230	97,003.00	-	_
CR	PEM	50742+00	USACE & NYSDEC	_	11,092.15	158.7	8,166.00
CR	PFO	50742+00	USACE & NYSDEC	1,054	6,551.00		
СР	PEM	50764+00	USACE & NYSDEC	_	20,697.85	16,140.50	29,009.80
CN	PEM	50769+00	USACE & NYSDEC	_	3,189.06		
СМ	PEM	50772+75	USACE & NYSDEC	_	1,218.18		
EDR-L	PSS	50768+50	USACE	_	299.13		
CO	PEM	50765+00	USACE	_	2,396.57	_	
EDR K	PEM	50777+00	USACE	_	4.2	_	_
EDR-I	PF0	50796+00	USACE	253	16,845.67	_	_
EDR-H	PEM	50800+00	USACE	<del>-</del>	1,414.52	_	_
EDR-H	PF0	50800+00	USACE	625	2,933.00	_	_
P5-AB	PF0	50830+00	USACE	_	1,767.91	_	_
P5-N	PSS	50841+00	USACE	_	23,044.27	_	_
P5-N	PEM	50841+00	USACE	<del>-</del>	6,299.68	_	_
P5-C	PEM	50895+00	USACE	-	3667.71		-
		TOTAL		36,636.52 (0.84 ACRES)	1,034,073.18 (23.74 ACRES)	16,299.20 (0.26 ACRES)	42,891.60 (1.3 ACRES
	SUR	TOTAL PEM		0	384,774.43	-	_
				_	(8.83 ACRES)		
	SUB	TOTAL PSS		0 –	265,365.65 (6.09 ACRES)	-	_
	SUBTOTAL PFO				382,160.99 (8.77 ACRES)	-	_

NOTES: ALL DELINEATED WETLANDS ARE CONSIDERED TO BE FEDERALLY JURISDICTIONAL UNDER SECTION 404 OF THE CLEAN WATER ACT.

# <u>SEGMENT 8 - FEMA FLOOD ZONES</u>

	TABLE 9-3. FEMA FLOOD ZONES IN SEGMENT 8					
SHEET NUMBER	STATION (APPROXIMATE -SEE DRAWINGS FOR DETAILS)	FLOOD ZONE				
C-101	STA 50013 TO 50014	ZONE A				
C-109	STA 50121 TO 50128	ZONE A				
C-125	STA 50362 TO 50363+50	ZONE AE				
C-128 TO C-131	STA 50410 TO 50457	ZONE AE				
C-132 AND C-133	STA 50466 TO 50495	ZONE AE				
C-139	STA 50576 TO 50583	ZONE A				
C-140 AND C-141	STA 50598 50603	ZONE AE				

APPROVED BY:





FOR INFORMATION, SEE ENVIRONMENTAL MANAGEMENT AND CONSTRUCTION PLAN NARRATIVE.

				CHAMDLAIN HUDCON DOWED EVDDECC	KIEWIT PROJECT
				CHAMPLAIN HUDSON POWER EXPRESS	21162
				SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM	
				EM&CP TABLES 5 OF 7	DRAWING NO.
					C 04
					G-014
0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION			

DESIGNED BY:

DB APP DRAWN BY:

DATE SUBMITTAL / REVISION DESCRIPTION

# <u>SEGMENT 8 - INVASIVE SPECIES</u>

SECTION 9.4 OF THE EM&CP AND APPENDIX N DESCRIBE THE INVASIVE SPECIES MANAGEMENT PLAN FOR THE PROJECT. SECTION 9.4.2 OF THE EM&CP DESCRIBE THE MEASURES TO PREVENT OR CONTROL THE TRANSPORT OF INVASIVE PLANT AND INSECT SPECIES AS WELL AS THE NECESSARY REPORTING REQUIREMENTS TO NYSDEC REGIONAL FORESTER IF THESE SPECIES ARE ENCOUNTERED. THE ENVIRONMENTAL INSPECTOR WILL ENSURE THAT MEASURES TO PREVENT AND CONTROL THE SPREAD OF INVASIVES ARE FOLLOWED AND THAT CONSTRUCTION CREWS ARE EDUCATED IN SAID MEASURES. THE ENVIRONMENTAL INSPECTOR WILL NOTIFY CREWS IF AN UPCOMING WORK AREA REQUIRES SAID MEASURES.

# <u>SEGMENT 8 - EM&CP NOISE SENSITIVE AREAS NOTE</u>

THE NOISE RECEPTORS THAT OCCUR NEAR SEGMENT 8 AT VARIOUS POINTS INCLUDE RESIDENCES AND BUSINESSES. SECTION 10.2 OF THE EM&CP DESCRIBES THE NOISE CONTROL MEASURES THAT WILL BE EMPLOYED THROUGHOUT THIS PACKAGE.

## <u>SEGMENT 8 - EM&CP CULTURAL RESOURCES</u>

TABLE 11-1. SEGEMENT 8 CULTURAL RESOURCES					
CULTURAL RESOURCE NAME	LOCATION	IMPACT	PROTECTION MEASURE		
NYSM/LP 6479	TOWN OF ROTTERDAM	HDD	TEST OR MONITOR.		
NYSM/LP 6479	TOWN OF ROTTERDAM	SPLICE LOCATION	TEST OR MONITOR.		
NYSM 7330, ARMY DEPOT VICINITY (NEARBY)	TOWN OF ROTTERDAM	HDDS AND SPLICE LOCATIONS	NONE.		
GOLUB LATE ARCHAIC SITE (09305.000255)	TOWN OF ROTTERDAM	HDDS AND SPLICE LOCATIONS	TEST OR MONITOR.		
NYSM 2780 (NORTHERN LOCUS)	TOWN OF GUILDERLAND.	HDDS AND SPLICE LOCATIONS	TEST OR MONITOR.		
NYSM 2780 (SOUTHERN LOCUS)	TOWN OF GUILDERLAND.	HDDS AND SPLICE LOCATIONS	TEST OR MONITOR.		
RAILROAD BRIDGE (C. 1926)	TOWN OF GUILDERLAND	BRIDGE ATTACHMENT	STRUCTURE HAS NOT BEEN INVENTORIED BY SHPO. EFFECTS DETERMINATION PRIOR TO INITIATING WORK AT THIS LOCATION.		
COSS HIGH BLUFF ISOLATED FIND 1 PREHISTORIC SITE (00106.0000405)	TOWN OF GUILDERLAND	HDDS AND SPLICE LOCATIONS	TEST OR MONITOR.		
COSS HIGH BLUFF PREHISTORIC SITE (00106.000407)	TOWN OF GUILDERLAND	SPLICE LOCATION	TEST OR MONITOR.		
PREHISTORIC SITE (00106.000113) AND BLACK CREEK SITE-NYSM 346	TOWN OF GUILDERLAND	HDD	NONE.		

# <u>SEGMENT 8 - NYSDOT COORDINATION</u>

TABLE 12-2 -NYSDOT COORDINATION SUMMARY					
COORDINATING PARTIES	COORDINATING PARTIES DESCRIPTION CURRENT STATUS				
CERTIFICATE HOLDERS, DPS STAFF, NYSDOT	ALL PLANS AND WORK TO BE PERFORMED IN STATE-OWNED ROW UNDER NYSDOT'S SUPERVISION AND MANAGEMENT.	ONGOING THROUGHOUT			
CERTIFICATE HOLDERS, DPS STAFF, NYSDOT STAFF	CERTIFICATE HOLDERS SHALL PROVIDE DPS STAFF AND NYSDOT STAFF WITH A PRELIMINARY DESIGN MARKED TO AVOID CONFLICT WITH POTENTIAL TRANSPORTATION PROJECTS THAT NYSDOT STAFF MAY SEEK TO UNDERTAKE IN THE FUTURE AND SHALL OFFER TO CONSULT WITH NYSDOT STAFF CONCERNING ANY COMMENTS IT MAY OFFER AND SHALL USE REASONABLE EFFORTS TO ACCOMMODATE ANY NYSDOT CONCERNS.	PRIOR TO FILING ANY SEGMENT EM&CP INVOLVING AN' SUCH STATE-OWNED ROW.			
CERTIFICATE HOLDERS, NYSDOT, AGENCY CROSSED BY PROJECT	CERTIFICATE HOLDERS WILL CONSULT WITH EACH TRANSPORTATION DEPARTMENT OR AGENCY HAVING JURISDICTION OVER ANY ROADS, RELATED STRUCTURES, AND COMPONENTS THAT WILL BE CROSSED BY THE FACILITY OR USED FOR DIRECT ACCESS TO THE CONSTRUCTION ZONE. IF THE ACCESS ROAD TAKES DIRECT ACCESS FROM, OR LIES WITHIN THE LIMITS OF, SUCH ROADS, THE CERTIFICATE HOLDERS WILL NOTIFY EACH RELEVANT TRANSPORTATION DEPARTMENT OR AGENCY OF THE APPROXIMATE DATE WHEN WORK WILL BEGIN.	DURING PREPARATION OF THE EM&CP AND WHEN WORK BEGINS.			
CERTIFICATE HOLDERS, NYSDOT, DPS STAFF, NYSDEC	THE CERTIFICATE HOLDERS WILL PROVIDE STATUS REPORTS SUMMARIZING CONSTRUCTION AND INDICATING CONSTRUCTION ACTIVITIES AND LOCATIONS SCHEDULED FOR THE NEXT MONTH.	BI-WEEKLY.			

# <u>SEGMENT 8 - ROAD AND HIGHWAY CROSSINGS AND CONSTRUCTION</u>

TABLE 12-3: ROAD AND HIGHWAY CROSSINGS					
MUNICIPALITY	JURISDICTION	ROAD CROSSING	CROSSING METHOD (HDD OR OPEN TRENCH)	SHEET	LOCATION (APPROXIMATE, SEE APPENDIX C DRAWING FOR DETAILS)
ROTTERDAM	TOWN OF ROTTERDAM	PHILLIPS ROAD	HDD 71	C-101	STA 50010
ROTTERDAM	NYSDOT	BURDECK STREET	HDD 71	C-102	STA 50021
ROTTERDAM	NYSDOT	MARIAVILLE ROAD	HDD 72	C-103	STA 50044
ROTTERDAM	NYSDOT	DUANESBURG ROAD	HDD 73	C-105	STA 50067+50
ROTTERDAM	NYS THRUWAY AUTHORITY	I-90 THRUWAY	HDD 73.A AND 74	C-108	STA 50116
ROTTERDAM	NYSDOT	GUILDERLAND AVENUE	HDD 75	C-110	STA 50150
GUILDERLAND	TOWN OF GUILDERLAND	COUNTY LINE ROAD	TRENCH	C-113 AND C-114	STA 50195
GUILDERLAND	NYSDOT	WESTERN TURNPIKE (US ROUTE 20)	HDD 76 AND 76.A	C-121	STA 50309
GUILDERLAND	NYSDOT	STATE ROUTE 146	HDD 78	C-127	STA 50394+50
GUILDERLAND	ALBANY COUNTY	STONE ROAD	TRENCH	C-134	STA 50502
VOORHEESVILLE	ALBANY COUNTY	SOUTH MAIN STREET/CR 201	HDD 81	C-139 AND C-140	STA 50585
VOORHEESVILLE	NYSDOT	VOORHEESVILLE AVENUE	TRENCH	C-140	STA 50596+50
VOORHEESVILLE	NYSDOT	MAPLE ROAD	HDD 82 AND 83	C-141	STA 50609
NEW SCOTLAND	TOWN OF NEW SCOTLAND	YOUMANS ROAD	TRENCH	C-145	STA 50668
NEW SCOTLAND	NYSDOT	NEW SCOTLAND ROAD	HDD 84	C-147	STA 50692+50
NEW SCOTLAND	ALBANY COUNTY	NEW SCOTLAND SOUTH ROAD	HDD 84.A	C-149	STA 50731+50
NEW SCOTLAND	TOWN OF NEW SCOTLAND	GAME FARM ROAD	HDD 84.B	C-152	STA 50780
NEW SCOTLAND	NYSDOT	DELAWARE TURNPIKE	HDD 85	C-155	STA 50811

## <u>SEGMENT 8 - ROAD PARALLEL CONSTRUCTION</u>

	TABLE 12-4: ROAD PARALLEL CONSTRUCTION					
PARALLEL ROAD CONSTRUCTION	JURISDICTION	SHEET	APPROXIMATE LOCATION (SEE APPENDIX C FOR DETAILS)			
PRINCETOWN ROAD	SCHENECTADY COUNTY	C-101	STA 50000 TO 50005			
VAN BUREN ROAD	TOWN OF GUILDERLAND	C-127 AND C-128	STA 50403 TO 50408			
FOUNDRY ROAD	VILLAGE OF VOORHEESVILLE	C-139	STA 50572 TO 50578			

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CHPE Kiewit **Power Express** 



FOR INFORMATION, SEE AND CONSTRUCTION PLAN NARRATIVE.

CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM EM&CP TABLES 6 OF 7

DB APP DRAWN BY:

KIEWIT PROJECT NO.

DRAWING NO.

**G-015** 

AS SHOWN DATE

APPROVED BY:

**DESIGNED BY:** 

# <u>SEGMENT 8 - RAILROAD CROSSINGS AND BRIDGE ATTACHMENT</u>

TABLE 13-3 -RAILROAD CROSSINGS AND BRIDGE ATTACHMENT					
RAILROAD OWNER	CROSSING ID	CROSSING METHOD	SHEET	APPROXIMATE STATION LOCATION (SEE DRAWINGS FOR DETAILS)	
NORTHFOLK SOUTHERN RAIL	RAIL CROSSING 1	HDD 71	C-101	STA 50013	
CSX RAIL	RAIL CROSSING 2	HDD 71	C-102	STA 50015 TO 50020	
CSX RAIL	RAIL CROSSING 3	HDD 76 AND 76.A	C-121	STA 50313	
CSX RAIL	RAIL CROSSING 4	HDD 77	C-123	STA 50336	
CSX RAIL	BRIDGE ATTACHMENT OVER NORMANS KILL	BRIDGE ATTACHMENT	C-124 AND C-125	STA 50360 TO 50364	
CSX RAIL	RAIL CROSSING 5	HDD 80	C-131	STA 50457 TO 50459	
CSX RAIL AND NORFOLK SOUTHERN RAIL	RAIL CROSSING 6	HDD 81	C-139 AND C-140	STA 50582 TO 50586	
CSX RAIL	RAIL CROSSING 7	HDD 87	C-156	STA 50832 TO 50835	

#### NOTES:

SECTION 13.2 OF THE EM&CP SUMMARIZES THE RAILROAD CROSSINGS THAT WILL OCCUR WITHIN THIS SEGMENT AS WELL AS THE MITIGATION MEASURES THAT WILL BE FOLLOWED AT EACH RAILROAD CROSSING. SECTION 13.3 OF THE EM&CP DESCRIBES THE UTILITY CROSSINGS THAT WILL OCCUR WITHIN THIS SEGMENT AS WELL AS THE MITIGATION MEASURES THAT WILL BE FOLLOWED FOR EACH TYPE OF UTILITY CROSSINGS.

## <u>SEGMENT 8 - RESTORATION METHODS AND NOTES</u>

TABLE 14 RES	TABLE 14 RESTORATION METHODS					
LAND USE DESCRIPTION	SECTION OF EM&CP					
CONSTRUCTION MATERIALS AND EQUIPMENT STAGING LOCATIONS AND TEMPORARY ACCESS ROADS	14.2.2					
PAVEMENT	14.2.2					
RAILWAY BALLAST	14.2.3					
RECREATIONAL AREAS	14.2.4					
LANDSCAPING	14.3					
STREAMS AND WATERBODIES	14.4					
ACCESS ROADS AND LAYDOWN AREAS WITHIN AGRICULTURAL LANDS	14.5.1					
DRAINAGE FEATURES	14.5.2					
GENERAL AGRICULTURAL LANDS	14.5					

SECTION 14.0 OF THE EM&CP DESCRIBES THE CLEANUP STANDARDS AND PROCEDURES THAT WILL BE FOLLOWED THROUGHOUT THIS SEGMENT ONCE CONSTRUCTION IS COMPLETE. TABLE 14 SUMMARIZES THE APPROPRIATE SUBSECTION WITH SECTION 14 THAT INCLUDES THE RESTORATION PROCEDURE FOR EACH TYPE OF LAND USE.

TABLE 14-1. AGRICULTURAL LANDS REQUIRING RESTORATION IN SEGMENT 8									
AGRICULTURAL LAND DESCRIPTION	PARCEL NUMBER	PLAN AND PROFILE (APPENDIX C) SHEET NUMBER	PLOT						
AGRICULTURAL LAND #1	26.00-3-18	C-118 AND C-119	STA 50268+59 TO 50271+05						
AGRICULTURAL LAND #2	26.00-3-34	C-119 AND C-120	STA 50282+78 TO 50291+23						
AGRICULTURAL LAND #3	61.00-1-25, 61.00-1-26.2, 61.00-1-26.3	C-135	STA 50514+80 TO 50522+07						
AGRICULTURAL LAND #4	61.00-1-29 AND 61.00-3-16.1	C-137	STA 50547+07 TO 50553+51						
AGRICULTURAL LAND #5	72.00-3-41.51	C-144	STA 50647+92 TO 50667+96						
AGRICULTURAL LAND #6	84.00-1-44.2 95.00-3-1.1	C-151 AND C-152	STA 50754+87 TO 50773+24						
AGRICULTURAL LAND #7	95.00-3-5 95.00-3-42	C-154	STA 50797+53 TO 50806+87						

# <u>SEGMENT 8 - FEMA</u>

FOR INFORMATION, SEE AND CONSTRUCTION PLAN NARRATIVE. FEMA FIRM MAPS ARE PROVIDED IN APPENDIX D OF THE STORMWATER POLLUTION PREVENTION PLAN WHICH IS INCLUDED IN APPENDIX G OF THE EM&CP. SEE EM&CP SECTION 9.1.3 FOR AREAS OF THE ALIGNMENT THAT OVERLAP FEMA FLOODPLAINS AND THE BMPS REQUIRED IN THOSE LOCATIONS.

# <u>SEGMENT 8 - EM&CP EROSION AND SEDIMENT CONTROL NOTES</u>

- 1. THE STORMWATER POLLUTION PREVENTION PLAN INCLUDED IN APPENDIX G OF THE EM&CP DESCRIBES THE EROSION AND
- SEDIMENT CONTROLS THAT WILL BE FOLLOWED FOR THIS SEGMENT. 2. THE EROSION AND SEDIMENT CONTROL PLANS CAN BE FOUND ON SHEETS C-401 TO SHEET C-430 FOR THIS SEGMENT.

DATE SUBMITTAL / REVISION DESCRIPTION

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			CHAMPLAIN HUDSON POWER EXPRESS BY	TK 21162
			SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM	
			EM&CP TABLES 7 OF 7	DRAWING NO.
				C 046
				G-016
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**DESIGNED BY:** 

APPROVED BY:

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CHPE WKiewit **Power Express** 



AS SHOWN DATE

06/09/2023

#### CLEANUP STANDARDS AND PRACTICES

FROM THE BMPS', CLEAN-UP, RESTORATION, AND REVEGETATION PROCEDURES WILL BE ONGOING DURING CONSTRUCTION AS EACH SEGMENT IS COMPLETED. DURING CONSTRUCTION, ROAD AND CONSTRUCTION ROWS WILL BE KEPT FREE OF DEBRIS AND DISCARDED MATERIAL TO THE GREATEST EXTENT POSSIBLE. AS CONSTRUCTION CONTINUES, EACH SECTION OF THE ROWS WILL BE THOROUGHLY CLEANED AFTER CONSTRUCTION IS COMPLETED ON THAT PARTICULAR SECTION VEGETATION TO BE CLEARED WILL BE IDENTIFIED ON A SITE-SPECIFIC BASIS ON THE EM&CP PLAN AND PROFILE DRAWINGS. CLEARED VEGETATION WILL BE DISPOSED OF IN ACCORDANCE WITH THE APPROPRIATE DISPOSAL TECHNIQUES. ALL FABRICATED DEBRIS RESULTING FROM CONSTRUCTION WILL BE DISPOSED OF AT AN APPROVED DISPOSAL SITE IN COMPLIANCE WITH ALL APPROPRIATE ENVIRONMENTAL REGULATIONS. FABRICATED DEBRIS GENERATED DURING CONSTRUCTION INCLUDES PIPING, FENCING, WIRING, AND ANY OTHER MATERIALS USED DURING CONSTRUCTION. ALL TRUCKS LEAVING THE CONSTRUCTION AREA WILL BE LOADED AND COVERED IN ACCORDANCE WITH APPLICABLE REGULATIONS AS NEEDED AS DESCRIBED IN THE SOIL MANAGEMENT PLAN OF THE EM&CP IN APPENDIX L. NO FABRICATED DEBRIS BE BURNED OR BURIED.

#### RESTORATION AND PLANTING

THE FINAL STAGE OF CONSTRUCTION WILL CONSIST OF RESTORING THE ROW TO ITS ORIGINAL CONDITION AND CHARACTER TO THE EXTENT PRACTICAL, UNLESS DOING SO WOULD INTERFERE WITH THE SAFE OR RELIABLE OPERATION AND MAINTENANCE OF THE PROJECT. RESTORATION ACTIVITIES MAY VARY WITH THE SPECIFIC AREA TO BE RESTORED BUT WILL CONSIST PREDOMINANTLY OF RESTORING TOPOGRAPHY TO ORIGINAL GRADIENTS AND RESEEDING EXCAVATED AREAS OVER THE TRENCH AS IDENTIFIED HEREIN.

### SITE PREPARATION FOR REVEGETATION

THE SURFACE OF THE ROAD AND CONSTRUCTION ROWS DISTURBED BY CONSTRUCTION ACTIVITIES WILL BE GRADED TO MATCH THE ORIGINAL TOPOGRAPHIC CONTOURS AND TO BE COMPATIBLE WITH SURROUNDING DRAINAGE PATTERNS WHERE APPROPRIATE OR IN ACCORDANCE WITH THE EM&CP. IT SHOULD BE NOTED THAT SUBCONTRACTORS WILL TYPICALLY LIMIT GRUBBING (THE REMOVAL OF STUMPS AND ROOTS) TO THE FOOTPRINT OF THE EXCAVATED TRENCH AND ACCESS ROADS TO ALLOW RE-SPROUTING AND ASSIST IN THE RECOVERY OF WOODY SPECIES, EXCEPT WHERE REMOVAL IS REQUIRED FOR SAFE CONSTRUCTION. WHERE NEEDED, IT MAY BE NECESSARY TO IMPORT TOPSOIL TO RETURN AN AREA TO GRADE. IMPORTED TOPSOIL WILL FOLLOW CLASSIFICATION AND CHARACTERIZATION MEASURES OUTLINED IN THE SOIL MANAGEMENT PLAN IN APPENDIX L. HDD ENTRY AND EXIT PITS WILL BE BACKFILLED AND THE DISTURBED GROUND SURFACE WILL BE SIMILARLY GRADED. TRENCHES WILL BE BACKFILLED IN ACCORDANCE WITH THE MEASURES OUTLINED IN SECTION 4.4.7 OF THE EM&CP. THE CERTIFICATE HOLDER WILL BE RESPONSIBLE FOR WILL CHECKING ALL CULVERTS AND ASSURE THAT THEY ARE NOT CRUSHED OR BLOCKED DURING CONSTRUCTION AND RESTORATION OF THIS SEGMENT AND, IF A CULVERT IS BLOCKED OR CRUSHED. TAKE IMMEDIATE STEPS TO REPLACE OR REPAIR THE CULVERT IN ACCORDANCE WITH APPLICABLE STATE OR LOCAL STANDARDS

### SEEDING AND PLANTING

SEEDING OPERATIONS WILL COMMENCE ONLY AFTER AN ACCEPTABLE SEEDBED HAS BEEN ESTABLISHED. SEED WILL BE APPLIED BY HAND, CYCLONE SEEDER, DRILL, OR CULTI-PACKER-TYPE SEEDER AT A DEPTH OF 0.25 TO 0.5 INCH. THE SEEDBED WILL BE FIRMED FOLLOWING SEEDING OPERATION WITH A ROLLER OR LIGHT DRAG, EXCEPT WHERE CULTI-PACKER-TYPE SEEDERS OR HYDROSEEDERS ARE USED. THE ENTIRE SEEDED AREA WILL BE WATERED WITH A FINE SPRAY UNTIL A UNIFORM MOISTURE DEPTH OF ONE (1) INCH HAS BEEN ACHIEVED. MULCHING AND ANCHORING OF THE MULCH MAY BE NECESSARY IN SOME AREAS UNLESS A HYDROMULCH/SEED SLURRY IS USED. ON STEEP SLOPES, JUTE NET WILL BE USED TO PROVIDE STABILIZATION. FERTILIZER WILL BE ADDED AT THE APPROPRIATE RATES AFTER SEED IS APPLIED. NO FERTILIZER WILL BE APPLIED IN WETLAND RESOURCE AREAS. SEEDING/MULCHING WILL TAKE PLACE UNDER THE SUPERVISION OF THE ENVIRONMENTAL INSPECTOR.

THE SEED MIXTURE AND RATE OF APPLICATION WILL DEPEND ON THE SOIL TYPE, LAND USE, AVAILABLE MOISTURE, AND SEASON AT THE TIME OF APPLICATION. SEEDBED PREPARATION (FINAL TILLAGE, FERTILIZING, LIMING) AND SEEDING WILL FOLLOW RECOMMENDATIONS AS CONTAINED IN NEW YORK STATE FARMLAND: SEEDING, FERTILIZING AND LIME RECOMMENDATIONS FOR GAS PIPELINE ROW RESTORATION IN FARMLANDS (REVISED 4-27-2011) IF APPLICABLE OR AS SPECIFIED BY THE LANDOWNER. ALL SEED MIXES WILL BE FREE OF INVASIVE SPECIES. ALL SEED BAG TAGS (EITHER ORIGINAL OR SCANNED COPIES) WILL BE PROVIDED TO THE ENVIRONMENTAL INSPECTOR EITHER ORIGINAL TAGS OR SCANNED COPIES. THE SEED MIXTURES WILL FOLLOW THE TECHNICAL SPECIFICATIONS INCLUDED ON THE PLAN AND PROFILE DRAWINGS IN APPENDIX C FOR UPLANDS AND WETLAND BUFFER ZONES. SEEDED AREAS WILL BE MONITORED FOLLOWING RESTORATION UNTIL A MINIMUM VEGETATIVE COVER OF EIGHTY (80) PERCENT IS ACHIEVED.

WHERE TREE OR SHRUB PLANTINGS ARE PRESCRIBED IN THE EM&CP, A POST-CONSTRUCTION SURVIVAL SURVEY WILL BE PERFORMED ONE YEAR AFTER THE PLANTINGS. IF ANY TREE OR SHRUB HAS NOT SURVIVED OR IS IN POOR HEALTH, THE TREE/SHRUB WILL BE REPLACED (BMP DOCUMENT SECTION 11.1.2.5).

VEGETATION THROUGHOUT THE TEMPORARY ROW WILL BE CUT TO GROUND LEVEL AND ROOT SYSTEMS WILL REMAIN INTACT TO ALLOW FOR RESPROUTING FOLLOWING CONSTRUCTION, UNLESS RESPROUTING WOULD INTERFERE WITH THE SAFE AND RELIABLE OPERATION OF THE PROJECT.

IF REQUIRED, ALL TREES OVER TWO (2) INCHES IN DBH OR SHRUBS OVER FOUR (4) FEET IN HEIGHT THAT ARE DAMAGED OR DESTROYED BY ACTIVITIES DURING CONSTRUCTION, OPERATION, OR MAINTENANCE WITHIN ASSOCIATED URBAN, RESIDENTIAL OR LANDSCAPED AREAS, WILL BE REPLACED WITHIN THE FOLLOWING YEAR BY THE CERTIFICATE HOLDERS WITH THE EQUIVALENT TYPE OF TREES OR SHRUBS EXCEPT IF:

- a)EQUIVALENT TYPE REPLACEMENT TREES OR SHRUBS WOULD INTERFERE WITH THE PROPER CLEARING, CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE PROJECT OR WOULD BE INCONSISTENT WITH STATE-INVASIVE SPECIES POLICY; OR
- b)REPLACEMENT WOULD BE CONTRARY TO SOUND ROW MANAGEMENT PRACTICES, OR TO ANY APPROVED LONG-RANGE ROW MANAGEMENT PLAN APPLICABLE TO THE FACILITY OR ADJOINING ROW; OR
- c)THE OWNER OF LAND WHERE THE DAMAGED OR DESTROYED TREES OR SHRUBS WERE LOCATED (OR OTHER RECORDED EASEMENT OR LICENSE HOLDERS WITH THE RIGHT TO CONTROL REPLACEMENT) DECLINES REPLACEMENT

#### RESTORATION OF WATERBODIES

UPON COMPLETION OF BACKFILLING OPERATIONS, CLEANUP AND RESTORATION OF THE STREAM CROSSING, BANKS AND BANK APPROACHES (AT LEAST 50 FEET ADJACENT TO EACH BANK) WILL BE COMPLETED WITHIN 24 HOURS. IF NEEDED, STREAM BANKS WILL BE RE-ESTABLISHED TO ORIGINAL GRADE IMMEDIATELY AFTER STREAM BANK WORK IS COMPLETED. THE BANKS WILL THEN BE PERMANENTLY STABILIZED BY SEEDING WITH NATIVE GRASSES, MULCHED AND, IF NEEDED, PLANTED WITH NATIVE OR NATURALIZED SHRUB SEEDLINGS. IF ADDITIONAL STABILIZATION IS NEEDED JUTE NETTING OR EROSION CONTROL BLANKETS WILL BE USED. RESTORATION AND PLANTING DETAILS FOR WATERBODIES ARE FURTHER DETAILED IN SECTION 14.4.1 OF THE EM&CP. MANY DIRECT IMPACTS TO STREAMS AND WATERBODIES ASSOCIATED WITH THIS SEGMENT HAVE BEEN AVOIDED BY CROSSING OVER OR UNDER EXISTING CULVERTS, AND INCORPORATING HDD METHODS. HOWEVER, WHERE IMPACTS TO WATERBODIES DO OCCUR, THE PROCEDURES FOR THE CLEANUP AND RESTORATION OF STREAMS AND WATERBODIES ARE SUMMARIZED IN SECTION 9.1 OF THE EM&CP

#### RESTORATION OF WETLANDS

DURING THE INITIAL RESTORATION PHASE, ALL CONSTRUCTION DEBRIS WILL BE REMOVED FROM THE RIGHT-OF-WAY. SEGREGATED

TOPSOIL WILL BE REPLACED, AND WETLAND CONTOURS AND DRAINAGE PATTERNS WILL BE RESTORED TO APPROXIMATE ORIGINAL CONDITION BY MATCHING THAT WHICH EXISTS IN ADJACENT UNDISTURBED AREAS.

RESTORATION OF THE WETLAND (OTHER THAN THE TRAVEL WAY) WILL BE COMPLETED WITHIN 24 HOURS AFTER BACKFILLING IS COMPLETED. THIS WILL BE DONE FOR A MINIMUM DISTANCE OF 50 FEET FROM THE WETLAND EDGE. RESTORATION OF THE WETLAND WILL INCLUDE BUT IS NOT LIMITED TO FINAL GRADING, SEEDING WITH A NATIVE WETLAND SEED MIX, FERTILIZING, AND MULCHING. HIGH ORGANIC SOILS (AS DETERMINED BY NYSDEC, DPS, OR THE ENVIRONMENTAL INSPECTOR) WILL BE GRADED BACK TO ORIGINAL CONTOURS AND LEFT UNMULCHED AND UNSEEDED TO FACILITATE THE GERMINATION OF NATIVE SEEDS AND SPROUTING OF RHIZOMES FROM THE SEED BANK. FOLLOWING CLEANUP, THE WETLAND WILL BE EVALUATED FOR POSSIBLE VEGETATIVE PLANTINGS. THIS WILL BE DONE IN CONSULTATION WITH THE APPROPRIATE AGENCIES AND IN ACCORDANCE WITH THE EM&CP.

FOR WETLAND RESOURCE AREAS, EMERGENT COMMUNITIES SHOULD BE REVEGETATED WITH AN ERNST FACW WETLAND MEADOW MIX (ERNMX-122) OR EQUIVALENT, AND FOR SHADED SITES WITHIN FORESTED/SHRUB—SHRUB WETLAND COMMUNITIES. DISTURBED AREAS SHOULD BE REVEGETATED WITH ERNST SPECIALIZED WETLAND MIX FOR SHADED AREAS (ERNMX-137) OR EQUIVALENT (SHOWN ON PLAN AND PROFILE DRAWINGS, APPENDIX C).

# RESTORATION OF CONSTRUCTION MATERIALS AND EQUIPMENT STAGING LOCATIONS AND TEMPORARY ACCESS ROADS

THE CONSTRUCTION MATERIALS EQUIPMENT STAGING LOCATIONS FOR THIS SEGMENT ARE SUMMARIZED IN SECTION 5.4 TABLE 5.2 OF THE EM&CP AND ARE SHOWN IN THE PLAN AND PROFILE DRAWINGS AND ESCP. THESE AREAS WILL BE RESTORED AS CLOSE AS PRACTICABLE TO PRE-CONSTRUCTION CONDITIONS AND CONTOURS TO THE EXTENT PRACTICABLE.

ALL TEMPORARY FENCING AND EROSION CONTROLS WILL BE REMOVED AND DISPOSED OF IN AN ACCEPTABLE MANNER AT A STATE-APPROVED DISPOSAL FACILITY APPROVED BY DPS STAFE AND THE CERTIFICATE HOLDERS. ALL MOTORIZED CONSTRUCTION EQUIPMENT WILL BE TRANSPORTED TO OFF-SITE FACILITIES. ALL OTHER USABLE CONSTRUCTION EQUIPMENT AND MATERIALS WILL BE COLLECTED, PACKED, AND TRANSPORTED TO OFF-SITE STORAGE FACILITIES OR TO THE NEXT SEGMENT'S STAGING AREA AS NEEDED. ALL UNUSABLE EQUIPMENT AND MATERIALS WILL BE REMOVED FROM THE LAYDOWN YARD AND DISPOSED OF APPROPRIATELY.

#### PLANT INSPECTION, GUARANTEE AND MAINTENANCE

VEGETATION RESTORATION ALSO INCLUDES THE MAINTENANCE OF PLANTINGS FOR SPECIFIED TIME PERIODS AND THE REPLACEMENT OF UNSUCCESSFUL PLANTINGS. PRIOR TO PLANTING, THE ENVIRONMENTAL INSPECTOR WILL INSPECT ALL PLANTS IN CONTAINERS. PLANTINGS WILL BE PERFORMED BY A QUALIFIED LANDSCAPE OR NURSERY CONTRACTOR. THE ENVIRONMENTAL INSPECTOR WILL ALSO INSPECT ALL PLANTS AFTER COMPETITION OF PLANTING TO ENSURE PROPER PLANTING PROCEDURES AND THE CORRECT PLANT SPECIES WERE USED. ADDITIONALLY, THE ENVIRONMENTAL INSPECTOR WILL CONDUCT A FINAL INSPECTION OF ALL REVEGETATED AREAS AFTER THE END OF THE MONITORING PERIOD TO ENSURE FINAL STABILIZATION. ALL VEGETATION REPLACED WILL HAVE A MINIMUM TWO -YEAR SURVIVAL GUARANTEE (BMP DOCUMENT SECTION 11.2.2). WHERE TREE OR SHRUB PLANTINGS ARE NEEDED, A POST-CONSTRUCTION SURVIVAL SURVEY WILL BE PERFORMED ONE YEAR AFTER THE PLANTINGS. IF ANY TREE OR SHRUB HAS NOT SURVIVED OR IS IN POOR HEALTH, THE TREE/SHRUB WILL BE REPLACED (BMP DOCUMENT SECTION 11.2.1.5).

SWPPP INSPECTIONS WILL BE PERFORMED BY THE ENVIRONMENTAL INSPECTOR ON A WEEKLY BASIS UNTIL ALL DISTURBED AREAS HAVE ACHIEVED THE 80% REVEGETATION REQUIRED FOR FINAL RESTORATION. FOLLOWING FINAL RESTORATION, EROSION AND SEDIMENT CONTROL MEASURES WILL BE REMOVED FROM THE SITE AND DISPOSED OF APPROPRIATELY.

#### RESTORATION WITHIN NYSDOT ROW

ALL RESTORATION WITHIN THE NYSDOT ROW SHALL BE DONE IN ACCORDANCE WITH THE LATEST VERSION OF THE NYSDOT STANDARD SPECIFICATIONS AND STANDARD SHEET AND ARE INCLUDED IN EM&CP SECTION 14.2.2 (BMP DOCUMENT SECTION 11.2.2).

#### RESTORATION OF RECREATIONAL AREAS

FOLLOWING CONSTRUCTION, THE CERTIFICATE HOLDERS WILL RESEED THE CONSTRUCTION AREA WITHIN RECREATIONAL AREAS SUCH AS THE CANALS USING THE PROCEDURES AND METHODS SPECIFIED IN THE SECTIONS ABOVE WHERE NEEDED. IF NECESSARY, ADDITIONAL REVEGETATION AND TREE PLANTING MAY BE PERFORMED DEPENDING ON THE IMPACT OF CONSTRUCTION. RECREATIONAL AREAS ARE DESCRIBED IN SECTION 7.2 OF THE EMCP.

# ROADWAY RESTORATION (STRIPPING, SIGNAGE, AUDIBLE ROADWAY

#### <u>DELINEATORS)</u>

STRIPPING IMPACTED OR REMOVED FROM CONSTRUCTION WITHIN THE LIMITS OF WORK, INCLUDING AREAS OF MILL AND OVERLAYS TO BE INSTALLED PER EXISTING STRIPPING PATTERNS CONTRACTOR SHALL INVENTORY ALL STRIPPING PRIOR TO WORK. WORK TO BE COMPLETED IN ACCORDANCE WITH NYSDOT STANDARD SHEETS AND SPECIFICATIONS (SEE 685 SERIES STANDARD SHEETS).

#### RESTORATION OF ROADWAY

THESE AREAS WILL BE RESTORED AS CLOSE AS PRACTICABLE TO PRE-CONSTRUCTION CONDITIONS AND CONTOURS. TRENCHES WILL BE BACKFILLED PER THE APPROPRIATE DETAIL, FULL WIDTH OF THE TRENCH WILL BE RESTORED TO MATCH THE EXISTING PAVEMENT SECTION, THE FULL WIDTH OF THE TRAVEL LANE TO THE CENTERLINE WILL BE MILLED AND OVERLAYED WITH A TOP COURSE OF ASPHALT. ALL TEMPORARY FENCING AND EROSION CONTROLS WILL BE REMOVED AND DISPOSED ON IN AN ACCEPTABLE MANNER AT A STATE-APPROVED DISPOSAL FACILITY APPROVED BY DPS STAFF AND THE CERTIFICATE HOLDERS.

#### RESTORATION OF ROADWAY SHOULDER

THESE AREAS WILL BE RESTORED AS CLOSE AS PRACTICABLE TO PRE-CONSTRUCTION CONDITIONS AND CONTOURS. TRENCHES WILL BE BACKFILLED PER THE APPROPRIATE DETAIL, FULL WIDTH OF THE TRENCH WILL BE RESTORED TO MATCH THE EXISTING PAVEMENT SECTION. THE FULL WIDTH OF THE TRAVEL LANE TO THE CENTERLINE WILL BE MILLED AND OVERLAYED WITH A TOP COURSE OF ASPHALT. ALL TEMPORARY FENCING AND EROSION CONTROLS WILL BE REMOVED AND DISPOSED ON IN AN ACCEPTABLE MANNER AT A STATE-APPROVED DISPOSAL FACILITY APPROVED BY DPS STAFF AND THE CERTIFICATE HOLDERS.

# PAVEMENT RESTORATION

AS DESCRIBED IN THE BMP DOCUMENT AND CERTIFICATE CONDITIONS, CURBS, SIDEWALKS, AND STREETS DAMAGED BY CONSTRUCTION WILL BE RESTORED TO PRE-EXISTING CONDITION OR BETTER. FURTHER, DISTURBED AREAS, RUTS, AND RILLS ALONG ROADWAYS SHALL BE RESTORED TO ORIGINAL GRADES AND CONDITIONS WITH PERMANENT REVEGETATION AND EROSION CONTROLS APPROPRIATE FOR THOSE LOCATIONS, AS APPROPRIATE.

THE CERTIFICATE HOLDERS WILL CONSULT THE MUNICIPAL ROAD OR HIGHWAY DEPARTMENT AND/OR THE REGIONAL OFFICE OR COUNTY ENGINEER OF THE NYSDOT IN ORDER TO IDENTIFY AND INCORPORATE APPROPRIATE SPECIFICATIONS FOR CURB, SIDEWALK, OR STREET RESTORATION. ALL SURFACE RESTORATION WILL FOLLOW THE SPECIFICATIONS AND DETAILS PROVIDED IN THE PLAN AND PROFILE DRAWINGS (SHEET C-631). GUIDE RAILS WILL BE REMOVED AND REPLACED IN ACCORDANCE WITH NYSDOT STANDARD SHEET 606-01. COUNTY/LOCAL ROADS WILL BE RESTORED UNDER A DIFFERENT COUNTY RESTORATION REQUIREMENT AS SHOWN IN THE PLAN AND PROFILE DRAWINGS (SHEET C-631).

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#### SEED MIXES

- A. GENERAL SEED:
- 1. PIPELINE MIX W/SWITCHGRASS (ERNMX-102-1)
- 2. MIX COMPOSITION
- 33.0% PANICUM VIRGATUM, 'SHAWNEE' (SWITCHGRASS, 'SHAWNEE')
- 25.0% FESTUCA RUBRA (CREEPING RED FESCUE)
- 18.0% LOLIUM MULTIFLORUM (ANNUAL RYEGRASS)
- 16.0% PHLEUM PRATENSE, CLIMAX (TIMOTHY, CLIMAX)
- 5.0% TRIFOLIUM HYBRIDUM (ALSIKE CLOVER)
- 3.0% AGROSTIS ALBA (REDTOP)
- 3. APPLIED AT A RATE OF 40 LBS/ACRE
- B. ADIRONDACK SEED:
- 1. MIX COMPOSITION
- 25% VIRGINIA WILD RYE (ELYMUS VIRGINICUS VAR. VIRGINICUS)
- 25% CANADA WILD RYE (ELYMUS CANADENSIS)
- 25% AUTUMN BENTGRASS (AGROSTIS PERENNANS)
- 25% CAMPER LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM)
- 2. APPLIED AT A RATE OF 40 LBS/ACRE.
- C. SPECIALIZED WETLAND MIX FOR SHADED OBL-FACW AREAS (ERNMX-137)
- 1. MIX COMPOSITION
- 35.0% CAREX VULPINOIDEA, PA ECOTYPE (FOX SEDGE, PA ECOTYPE)
- 20.0% ELYMUS VIRGINICUS, MADISON-NY ECOTYPE (VIRGINIA WILDRYE, MADISON-NY ECOTYPE)
- 15.0% CAREX SCOPARIA, PA ECOTYPE (BLUNT BROOM SEDGE, PA ECOTYPE)
- 12.8% CAREX LURIDA, PA ECOTYPE (LURID SEDGE, PA ECOTYPE)
- 5.0% CAREX LUPULINA, PA ECOTYPE (HOP SEDGE, PA ECOTYPE)
- 4.0% VERBENA HASTATA, PA ECOTYPE (BLUE VERVAIN, PA ECOTYPE)
- 2.0% HELIOPSIS HELIANTHOIDES, PA ECOTYPE (OXEYE SUNFLOWER, PA ECOTYPE)
- 1.0% CAREX INTUMESCENS, PA ECOTYPE (STAR SEDGE, PA ECOTYPE)
- 1.0% SPARGANIUM AMERICANUM (EASTERN BUR REED)
- 0.7% IRIS VERSICOLOR (BLUEFLAG)
- 0.5% BIDENS CERNUA, PA ECOTYPE (NODDING BUR MARIGOLD, PA ECOTYPE)
- 0.5% CAREX CRINITA, PA ECOTYPE (FRINGED SEDGE, PA ECOTYPE)
- 0.5% CAREX STIPATA, PA ECOTYPE (AWL SEDGE, PA ECOTYPE)
- 0.5% EUPATORIUM PERFOLIATUM, PA ECOTYPE (BONESET, PA ECOTYPE)
- 0.5% SCIRPUS CYPERINUS, PA ECOTYPE (WOOLGRASS, PA ECOTYPE)
- 0.5% VERNONIA NOVEBORACENSIS, PA ECOTYPE (NEW YORK IRONWEED, PA ECOTYPE)
- 0.3% LOBELIA SIPHILITICA, PA ECOTYPE (GREAT BLUE LOBELIA, PA ECOTYPE)
- 0.2% PENTHORUM SEDOIDES, PA ECOTYPE (DITCH STONECROP, PA ECOTYPE)
- 2. APPLIED AT A RATE OF APPROXIMATELY 20 LBS/ACRE, ALONG WITH THE COVER CROP.
- 3. COVER CROP SHOULD BE APPLIED AT A RATE OF 60-80 LBS/ACRE. COVER CROP TO BE AN ANNUAL RYE. COVER CROP BASED ON SEASON OF RESTORATION AN ANNUAL RYE THROUGH SPRING AND SUMMER AND WINTER RYE FOR LATE FALL.
- D. FACW WETLAND MEADOW MIX (ERNMX-122)
- 1. MIX COMPOSITION

DB APP DRAWN BY

- 21.0% CAREX VULPINOIDEA, PA ECOTYPE (FOX SEDGE, PA ECOTYPE)
- 20.0% ELYMUS VIRGINICUS, PA ECOTYPE (VIRGINIA WILDRYE, PA ECOTYPE)
- 16.0% CAREX LURIDA, PA ECOTYPE (LURID SEDGE, PA ECOTYPE)
- 12.0% CAREX LUPULINA, PA ECOTYPE (HOP SEDGE, PA ECOTYPE)
- 12.0% CAREX SCOPARIA, PA ECOTYPE (BLUNT BROOM SEDGE, PA ECOTYPE) 3.0% VERBENA HASTATA, PA ECOTYPE (BLUE VERVAIN, PA ECOTYPE)
- 2.4% ASCLEPIAS INCARNATA, PA ECOTYPE (SWAMP MILKWEED, PA ECOTYPE)
- 2.0% JUNCUS EFFUSUS (SOFT RUSH)
- 2.0% ZIZIA AUREA, PA ECOTYPE (GOLDEN ALEXANDERS, PA ECOTYPE)
- 1.6% ASTER NOVAE-ANGLIAE, PA ECOTYPE (NEW ENGLAND ASTER, PA ECOTYPE)
- 1.3% CAREX STIPATA, PA ECOTYPE (AWL SEDGE, PA ECOTYPE) 1.0% BIDENS CERNUA, PA ECOTYPE (NODDING BUR MARIGOLD, PA ECOTYPE)
- 1.0% JUNCUS TENUIS, PA ECOTYPE (PATH RUSH, PA ECOTYPE)
- 0.8% SOLIDAGO RUGOSA, PA ECOTYPE (WRINKLELEAF GOLDENROD, PA ECOTYPE)
- 0.6% VERBENA URTICIFOLIA. PA ECOTYPE (WHITE VERVAIN, PA ECOTYPE) 0.5% CAREX CRINITA, PA ECOTYPE (FRINGED SEDGE, PA ECOTYPE)
- 0.5% EUPATORIUM PERFOLIATUM, PA ECOTYPE (BONESET, PA ECOTYPE)
- 0.5% HELENIUM AUTUMNALE, PA ECOTYPE (COMMON SNEEZEWEED, PA ECOTYPE)
- 0.5% MIMULUS RINGENS, PA ECOTYPE (SQUARE STEMMED MONKEYFLOWER, PA ECOTYPE)
- 0.3% LOBELIA SIPHILITICA, PA ECOTYPE (GREAT BLUE LOBELIA, PA ECOTYPE)
- 0.3% SCIRPUS CYPERINUS, PA ECOTYPE (WOOLGRASS, PA ECOTYPE) 0.2% ALISMA SUBCORDATUM, PA ECOTYPE (MUD PLANTAIN, PA ECOTYPE)
- 0.2% ASTER PUNICEUS, PA ECOTYPE (PURPLESTEM ASTER, PA ECOTYPE)
- 0.2% ASTER UMBELLATUS, PA ECOTYPE (FLAT TOPPED WHITE ASTER, PA ECOTYPE)
- 0.1% PENTHORUM SEDOIDES, PA ECOTYPE (DITCH STONECROP, PA ECOTYPE)
- 2. APPLIED AT A RATE OF APPROXIMATELY 20 LBS/ACRE, ALONG WITH THE COVER CROP. 3. COVER CROP SHOULD BE APPLIED AT A RATE OF 60-80 LBS/ACRE, COVER CROP TO BE AN ANNUAL
- RYE. COVER CROP BASED ON SEASON OF RESTORATION AN ANNUAL RYE THROUGH SPRING AND SUMMER AND WINTER RYE FOR LATE FALL.

**RESTORATION NOTES** 

APPROVED BY:

KIEWIT PROJECT NO.

21162

DRAWING NO.

**G-020** 

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E. LAWN MIX: USE AN ERNST SEED MIX, SUCH AS ATHLETIC FIELD MIX OR SIMILAR.

**DESIGNED BY:** 

CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM FOR INFORMATION, SEE AND CONSTRUCTION PLAN NARRATIVE

CHPE **Champlain Hudson Power Express** 

**W**Kiewit