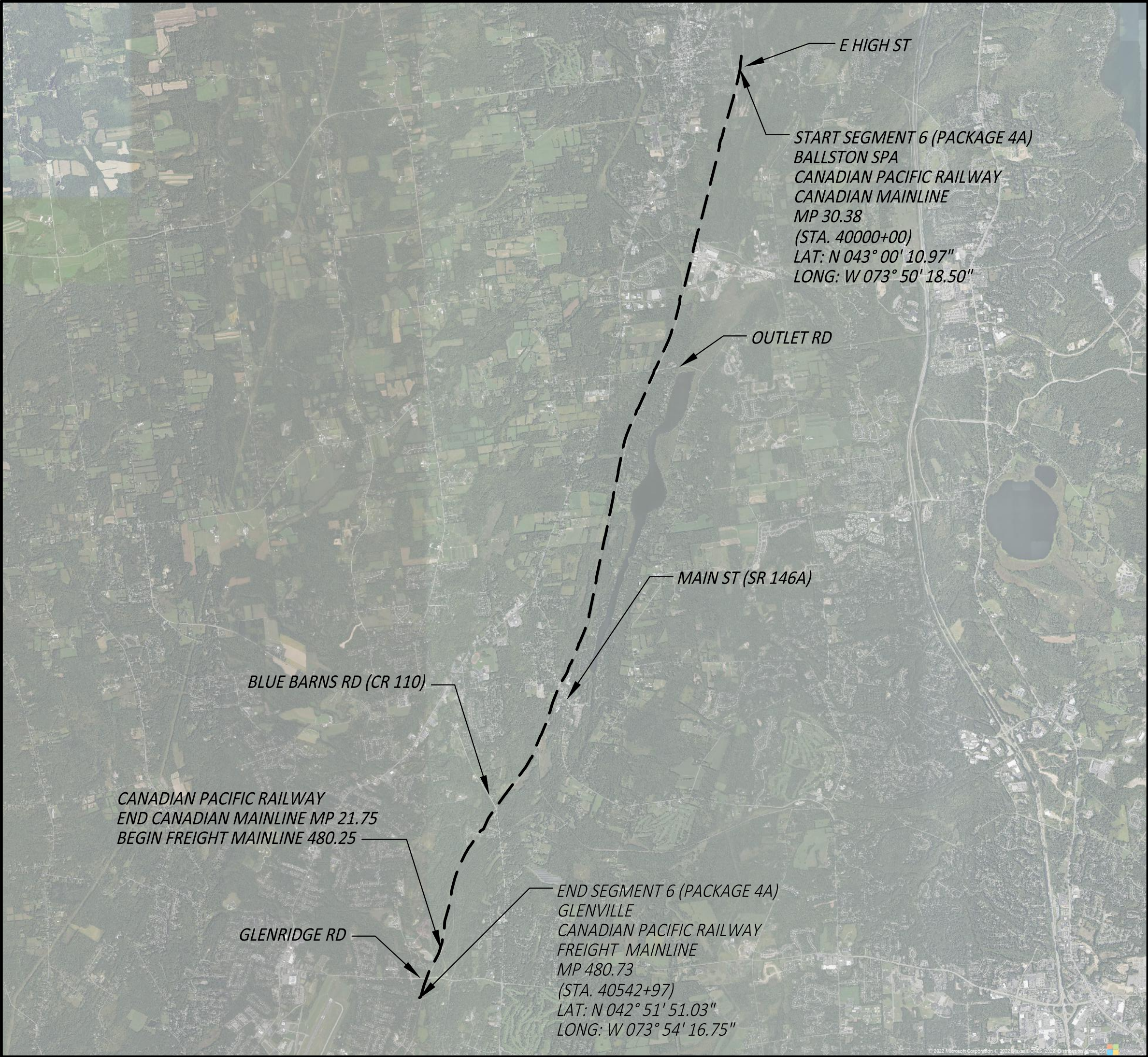


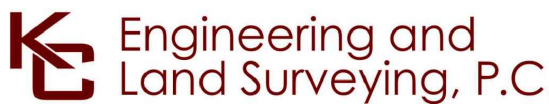
CHAMPLAIN HUDSON POWER EXPRESS

SEGMENT 6 (PACKAGE 4A) - BALLSTON SPA TO GLENVILLE SARATOGA COUNTY AND SCHENECTADY COUNTY, NEW YORK

IFC SUBMISSION (AUGUST 3, 2023)



SITE LOCATION MAP
SCALE: 1" = 5000'



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.

0	08/03/2023	ISSUED FOR CONSTRUCTION SUBMISSION		JM	SB
No.	DATE	SUBMITTAL / REVISION DESCRIPTION		DB	APP

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 6 (PACKAGE 4A) - CP: BALLSTON TO GLENVILLE
COVER SHEET

KIEWIT PROJECT NO.	21162
KC PROJECT NO.	120174
DRAWING NO.	G-000
DATE	08/03/2023
SH.NO.	-- OF --

DRAWN BY:	cs	DESIGNED BY:	JM	APPROVED BY:	SB	SCALE	AS NOTED
						REV. NO.	0

File: P:\120174-CHPE_CABLE_INSTALL-KIEWIT-KIEWIT\60_CAD\20_ENGINEERING_CAD_FILES\PACKAGE_4A\NY_COMMON\01_KCE\Sheet_FILES\2162_4A_0_001.DWG Saved: 8/4/2023 10:52:08 AM Plotted: 8/4/2023 10:53:59 AM Current User: Jennifer Montaleza LastSavedBy: jmontaleza

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SHEET NUMBER	SHEET TITLE
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G-000	COVER SHEET
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G-005	KEYPLAN
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G-007	EM&CP DATA TABLES (2 OF 5)
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G-009	EM&CP DATA TABLES (4 OF 5)
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C-105	STA. 40068+00 TO STA. 40083+00 PLAN AND PROFILE
C-106	STA. 40083+00 TO STA. 40098+00 PLAN AND PROFILE
C-107	STA. 40098+00 TO STA. 40113+00 PLAN AND PROFILE
C-108	STA. 40113+00 TO STA. 40128+00 PLAN AND PROFILE
C-109	STA. 40128+00 TO STA. 40143+00 PLAN AND PROFILE
C-110	STA. 40143+00 TO STA. 40158+00 PLAN AND PROFILE
C-111	STA. 40158+00 TO STA. 40173+00 PLAN AND PROFILE
C-112	STA. 40173+00 TO STA. 40188+00 PLAN AND PROFILE
C-113	STA. 40188+00 TO STA. 40203+00 PLAN AND PROFILE
C-114	STA. 40203+00 TO STA. 40218+00 PLAN AND PROFILE
C-115	STA. 40218+00 TO STA. 40233+00 PLAN AND PROFILE
C-116	STA. 40233+00 TO STA. 40248+00 PLAN AND PROFILE
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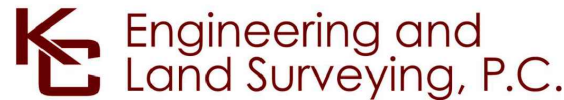
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C-403	STA. 40068+00 TO STA. 40098+00
C-404	STA. 40098+00 TO STA. 40128+00
C-405	STA. 40128+00 TO STA. 40158+00
C-406	STA. 40158+00 TO STA. 40188+00
C-407	STA. 40188+00 TO STA. 40218+00
C-408	STA. 40218+00 TO STA. 40248+00
C-409	STA. 40248+00 TO STA. 40278+00
C-410	STA. 40278+00 TO STA. 40308+00
C-411	STA. 40308+00 TO STA. 40338+00
C-412	STA. 40338+00 TO STA. 40368+00
C-413	STA. 40368+00 TO STA. 40398+00
C-414	STA. 40398+00 TO STA. 40428+00
C-415	STA. 40428+00 TO STA. 40458+00
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0	08/03/2023	ISSUED FOR CONSTRUCTION SUBMISSION	JM	SB	
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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 6 (PACKAGE 4A) - CP: BALLSTON TO GLENVILLE
SHEET INDEX

KIEWIT PROJECT NO.	21162
KC PROJECT NO.	120174
DRAWING NO.	G-001
DATE	08/03/2023
SH.NO.	-- OF --

DRAWN BY:	cs	DESIGNED BY:	JM	APPROVED BY:	SB	SCALE	AS NOTED
REV. NO.							

CANADIAN PACIFIC RAILWAY (CPR) – GENERAL CONSTRUCTION NOTES

- ## CONSTRUCTION REQUIREMENTS
- ### 1. LOCATES & UTILITIES
- a. THE CONTRACTOR IS REQUIRED TO OBTAIN AND MAINTAIN LOCATES FOR THE ENTIRE WORKING AREA PRIOR TO COMMENCING ANY EXCAVATION OR SUBSURFACE WORK.
 - b. FIBRE OPTIC LOCATES MUST BE REQUESTED THROUGH THE CP OPERATIONS DESK AT 1-800-387-1833. FIBRE OPTICS ARE LOCATED PARALLEL TO THE ROW THROUGHOUT MOST OF THE RAILWAYS NETWORK.
 - c. FIBRE OPTIC CABLES MUST BE PROTECTED, AND PHYSICALLY EXPOSED WHERE DIRECTED BY THE FIBRE OPTIC OWNERS REPRESENTATIVE.
 - d. RAILWAY SIGNAL LOCATES MUST ALSO BE OBTAINED THROUGH THE CP OPERATIONS DESK.
 - e. ALL OTHER UTILITY LOCATES MUST BE OBTAINED THROUGH THE UTILITIES DIRECTLY, OR THROUGH A ONE-CALL SERVICE AS APPROPRIATE.
 - f. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROPERLY LOCATING, PROTECTING AND RESTORING ANY UTILITIES WITHIN RAILWAY PROPERTY.

- a. REQUIRED CONSTRUCTION CLEARANCES SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE WORK.
- b. NO PERMANENT FACILITIES SHALL BE CONSTRUCTED WITHIN 25' OF ANY MAIN TRACK CENTERLINE.
- c. NO TEMPORARY FACILITIES SHALL BE CONSTRUCTED WITHIN 13' OF ANY MAIN TRACK CENTERLINE, AND THEN ONLY WITH EXPRESSED WRITTEN AUTHORIZATION BY THE DISTRICT ENGINEER.
- d. WORKERS 10' OR MORE ABOVE THE TRACK SHALL HAVE THE POTENTIAL TO IMPACT WAYSIDE SIGNAL OR CROSSING SIGHTLINES. THE DISTANCES MUST BE INCREASED TO COMPLY WITH SIGHTLINE REQUIREMENTS.

- a. PERSONNEL MAY ONLY CROSS TRACKS ON FOOT WHEN AUTHORIZED BY THE FLAGMAN UNLESS USING A DESIGNATED PUBLIC CROSSING. CROSS THE TRACKS AT A 90 DEGREE ANGLE, AND NEVER STEP ON THE RAIL.
- b. THE OPERATION OF ANY MACHINERY, VEHICLE OR EQUIPMENT ON OR ACROSS TRACKS AT A LOCATION OTHER THAN A DESIGNATED CROSSING IS PROHIBITED.
- c. TEMPORARY CROSSINGS SHALL ONLY BE INSTALLED WHERE AUTHORIZED BY CP, AND SHALL COMPLY WITH ALL APPLICABLE CROSSING SAFETY REGULATIONS.
- d. TEMPORARY CROSSINGS WILL BE INSTALLED AND REMOVED BY CP FORCES, AND SHALL NOT BE CONSTRUCTED OR USED UNLESS A SIGNED AGREEMENT IS IN EFFECT.
- e. TEMPORARY CROSSINGS MUST BE SECURED BY A LOCKED GATE ON BOTH SIDES OF THE TRACK AT ALL TIMES THAT THE FLAGMAN IS NOT PRESENT.
- f. WHEN CROSSING TRACKS AT A CROSSING, CONTACT WITH THE RAIL BY MACHINERY, VEHICLES OR OTHER MEANS IS STRICTLY PROHIBITED. BLASTING MATS OR OTHER MEANS MUST BE INSTALLED TO PREVENT MECHANICAL CONTACT BETWEEN METAL SURFACES AND THE RAILS.
- g. CROSSINGS MUST BE KEPT CLEAR OF MATERIAL, MUD OR DEBRIS. THE CROSSING MUST BE INSPECTED AND CLEANED AS REQUIRED, WITH PARTICULAR ATTENTION TO THE FLANGEWAYS, PRIOR TO THE PASSAGE OF EACH TRAIN.
- h. THE CONTRACTOR MUST ENSURE THAT BOTH RAILS OF THE SAME TRACK ARE NEVER CONNECTED WITH ANY METAL CONDUCTOR (SUCH AS BARE WIRE, STEEL TAPE MEASURES, EQUIPMENT, ETC).

- a. THE PROJECT SITE MUST BE KEPT CLEAN AND TIDY. DEBRIS MUST BE PROMPTLY REMOVED.
- b. STORAGE OF MATERIALS ON RAILWAY PROPERTY IS PROHIBITED.
- c. POSITIVE DRAINAGE AWAY FROM THE TRACKS MUST BE MAINTAINED AT ALL TIMES.
- d. ALL SCAFFOLDING, FALSEWORK, FORMWORK, PROTECTIVE COVERINGS ETC. MUST BE SECURED AGAINST MOVEMENT DURING THE PASSAGE OF TRAINS AT TRACK SPEED.
- e. OPEN EXCAVATIONS MUST BE PROTECTED BY SIGNAGE AND FENCING. CONSIDERATION MUST BE GIVEN TO THE SAFETY OF TRAIN CREWS WHO MAY BE REQUIRED TO WALK THROUGH THE WORK SITE AT NIGHT.
- f. WHEREVER PRACTICAL, OPEN EXCAVATIONS SHALL BE FULLY COVERED AND SECURED IN LIEU OF FENCING.
- g. STORAGE OF EQUIPMENT AND MACHINERY ON RAILWAY PROPERTY IS PROHIBITED.
- h. TRACKS MUST BE PROTECTED FROM DEBRIS DURING WORK OPERATIONS. PLYWOOD, FILTERCLOTH OR OTHER MEASURES SHALL BE INSTALLED AT THE DIRECTION OF THE RAILWAY TO PREVENT CONTAMINATION OF THE TRACK BALLAST.
- i. THE CONTRACTOR SHALL BE LIABLE FOR ANY COST INCURRED BY THE RAILWAY TO RESTORE FOULED TRACK BALLAST.

- a. THE RAILWAY RESERVES THE RIGHT TO SUSPEND ANY CONSTRUCTION ACTIVITY WHICH MAY AFFECT THE STABILITY OF THE ROADBED, BALLAST OR TRACK STRUCTURE AS A RESULT OF HOT WEATHER OR EXCESSIVE PRECIPITATION.
- b. WHEN THE AMBIENT AIR TEMPERATURE IS EQUAL TO OR GREATER THAN 25°C (77°F), THE RAILWAY MAY IMPOSE EXCAVATION RESTRICTIONS.
- c. WHEN THE AMBIENT AIR TEMPERATURE IS EXPECTED TO EXCEED 30°C (86°F), EXCAVATION OF THE ZONE OF POTENTIAL TRACK LOADING (2PL) OR BALLAST BEDDERS IS PROHIBITED.
- d. BACKFILLED EXCAVATIONS MUST BE PROTECTED FROM EROSION UNTIL NATURAL VEGETATION PROPERLY GERMINATES. THIS MAY INCLUDE TARPING SLOPES WHEN SIGNIFICANT PRECIPITATION IS EXPECTED.

1. THE DESIGN WITHIN THE RAILROAD RIGHT OF WAY INCORPORATES ASPECTS OF THE FOLLOWING STANDARDS:
 - 1.a. CANADIAN PACIFIC RAILWAY – UTILITY SPECIFICATIONS AND APPLICATION PROCESS (US) –
[HTTPS://WWW.CPR.CA/EN/CHOOSE-RAIL-SITE/DOCUMENTS/CP-UTILITY-SPECS-AND-APPLICATION-PROCESS.PDF](https://www.cpr.ca/en/choose-rail-site/documents/cp-utility-specs-and-application-process.pdf)
 - 1.b. AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION (AREMA) MANUAL FOR RAILWAY ENGINEERING.
 - 1.c. BNSF/UP GUIDELINES FOR TEMPORARY SHORING.
2. SEE ADJACENT CANADIAN PACIFIC RAILWAY (CPR) GENERAL CONSTRUCTION NOTES.

3. UNLESS NOTED OTHERWISE ON C-300 SERIES HDD PLAN AND PROFILES, EACH HDD CONSISTS OF A PAIR OF (2) HVDC ELECTRICAL TRANSMISSION CABLES HOUSED IN INDIVIDUAL 10" DIAMETER CASINGS/CONDUITS, HDPE DR9, AND A THIRD 2" DIAMETER CASING/CONDUIT, HDPE DR9, WILL BE BUNDLED IN PULLBACK WITH ONE OF THE 10" CASINGS/CONDUITS FOR A TELECOMMUNICATION LINE.
2. THERMAL RESISTIVITY (TR) HORIZONTAL SPACING TO BE MAINTAINED IN PLAN BETWEEN CONDUIT 1 AND CONDUIT 2 IS CALLED OUT AS TRDS APPENDED TO A DIMENSION IN BETWEEN CONDUITS IN PLAN VIEWS, WHERE TRDS IS THE THERMAL RESISTIVITY DESIGN SPACING. TRDS IS DERIVED FROM AN ASSIGNED RHO (GREEK CHARACTER ρ FOR TR) AND ON DESIGN DEPTH FOR THE PAIR OF CONDUITS IN SHOWN PROFILE. RHO AND TRDS ARE DETERMINED BY ELECTRICAL ENGINEERING ON THE BEHALF OF THE OWNERS.
3. THE HDD CONTRACTOR SHALL HOLD THE TRDS IN THEIR OPERATIONS WITHIN THE HORIZONTAL TOLERANCES SPECIFIED IN SECTION 330507.13. IN CONSTRUCTION, THE SPACING SHALL BE CONTROLLED, OBSERVED, AND MAINTAINED SUCH THAT THE AS-BUILT SPACING SHALL NEVER BE LESS THAN TRDS MINUS 10 FEET, ABSOLUTE MINIMUM.
4. HDD CONTRACTOR SHALL COORDINATE WITH OVERHEAD ELECTRIC OWNER/OPERATOR(S) TO HAVE TEMPORARY PROTECTIVE SLEEVES INSTALLED ON OVERHEAD POWER LINES IN THE VICINITY OF WORKZONES.
5. STANDARD PENETRATION TEST, SPT, N-VALUES SHOWN ON THE C-300 SERIES DRAWINGS ARE NOT CORRECTED FOR THE SAMPLER SIZE OR HAMMER ENERGY. REFERENCE BORING LOGS AND GEOTECHNICAL REPORTS FOR DETAILED INFORMATION.
6. WHEN CONDUCTOR CASINGS OR CONDUITS ARE USED TO MANAGE INADVERTENT RETURNS, THE CONDUCTOR SHALL BE REMOVED IMMEDIATELY AFTER THE PULL BACK OF THE MAIN CONDUIT OR CONDUIT BUNDLE. A WRITTEN PLAN MUST BE SUBMITTED SEEKING ENGINEERING APPROVAL OF THE MATERIAL USED TO REPLACE THE RESIDUAL DRILLING FLUID WHEN FILLING THE ANNULAR SPACE BETWEEN THE CONDUIT OR CONDUIT BUNDLE AND THE NATIVE SOILS LEFT AFTER CONDUCTOR CASING EXTRACTION.
7. FOR WORKZONES THAT ARE ADJACENT TO OR IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC WHERE EQUIPMENT MUST BE MANEUVERED, THE HDD SUBCONTRACTOR SHALL COORDINATE WITH ELECTRIC OWNER/OPERATOR TO ENSURE THAT ALL OSHA MANDATED CLEARANCES ARE OBSERVED AND MAINTAINED WITH THE INSTALLATION OF HIGH VISIBILITY RUBBER SLEEVES FOR VISUAL INDICATION PURPOSES. ADDITIONAL SPOTTERS SHOULD BE CONSIDERED.
8. WHEN AN HDD WORK ZONE OR WORK AREA CROSSES, OVERLAPS, OR IMPACTS DESIGNATED WETLANDS, RESTORATION OF THOSE WETLANDS SHALL BE INITIATED UPON COMPLETION OF WORK USING ACCEPTED ENVIRONMENTAL BEST MANAGEMENT PRACTICES (BMP). WORK ZONES ARE CONSIDERED AN EXTENSION OF ACCESS ROADS. TIMBER MATTING, AS SHOWN AND NOTED ON WETLAND CROSSING DETAILS, SHEET C-611, OPTION "A" AND/OR OPTION "B" ADAPTED TO THE SITE-SPECIFIC NEEDS AND ADJACENT ACCESS ROADS, SHOULD BE USED.
9. ABANDONED UTILITY POLES THAT ARE ENCOUNTERED WITHIN THE RAILROAD ROW AND BOUNDARY BY THE HDD SUBCONTRACTOR WITHIN WORK ZONES, IMMEDIATELY ADJACENT TO A WORK ZONE, OR THAT OTHERWISE OBSTRUCT PREPARATION OF, OR USE OF, A WORK ZONE AND OR FABRICATION OF THE PULLBACK STRING OF HDPE CONDUIT(S) SHALL BE REMOVED AND DISPOSED OF BY OTHERS.
10. HDD DESIGN FOR THE PURPOSES OF PERMITTING AND REGULATORY APPROVAL DID NOT FOCUS ON OR PROMOTE THE USE OF BALLAST OR ROLLERS TO MANAGE INSTALLATION STRESSES. BALLAST OR ROLLERS ARE AN IMPORTANT TOOL AT THE DISPOSAL OF THE HDD SUBCONTRACTORS AND THEIR HDD ENGINEERS. THESE TECHNIQUES MAY BE REFERENCED IN THE DSR AND IRCP REPORT DOCUMENTS. IF BALLASTING OR ROLLERS ARE REQUIRED FROM THE ENGINEER OF RECORD ANALYSIS, IT WILL BE NOTED ON THE 300 SERIES DRAWINGS ON A CASE-BY-CASE BASIS.
11. THE TELECOMMUNICATIONS CONDUIT/CASING SHALL BE BUNDLED WITH THE CONDUIT INTENDED TO CARRY THE NEGATIVE CONDUCTOR. THE HDD CONTRACTOR SHALL BORE AND PULL BACK THE NEGATIVE CONDUIT AND BUNDLE PRIOR TO THE POSITIVE CONDUIT. IF THE COMMUNICATIONS CONDUIT FAILS OR IS OTHERWISE COMPROMISED IN PULL BACK, HDD CONTRACTOR SHALL NOTIFY THE ELECTRICAL ENGINEER TO FACILITATE APPROVALS AND SUBSEQUENT RECOMMENDATIONS REGARDING REROUTE OF THE COMMUNICATION CONDUIT/CASING AND THE AS-BUILT REQUIREMENTS NEEDED. THE TELECOMMUNICATIONS CONDUIT MAY THEN BE BUNDLED WITH THE POSITIVE CONDUCTOR CONDUIT FOR THE SECOND PULLBACK.
12. FOR WORK ZONES THAT ARE LOCATED WITHIN AG LANDS, TOPSOIL IS TO BE STRIPPED AND STOCKPILED UNLESS MATTING IS TO BE UTILIZED. STOCKPIILING IS TO OCCUR ALONG SIDE OF ROADWAY WITHIN LIMIT OF WORK OR DESIGNATED AREAS TO BE FIELD DETERMINED WITH THE LIMIT OF WORK. AT THE COMPLETION OF THE PROJECT, CONTRACTOR TO REMOVE WORK ZONE AND RESTORE TO EXISTING CONDITIONS IN ACCORDANCE WITH THE RESTORATION SECTION FOR AGRICULTURAL LANDS AS IDENTIFIED WITH THE EM&CP.

1. THE PROPOSED DISTURBANCE FOR THE TRENCH DETAIL WILL BE LIMITED TO THE WIDTH OF THE TRENCH SECTIONS DEPICTED ON C-621.
2. AREAS OF THE LIMIT OF WORK ACROSS THE ALIGNMENT HAVE BEEN EXPANDED TO INCLUDE AREAS OFF THE ROADWAY WITHIN LAWN AREAS THAT ARE SUITABLE FOR POTENTIAL TEMPORARY STAGING AREAS DURING CONSTRUCTION. SHOULD THESE AREAS BE UTILIZED AND DISTURBED THE AREAS SHOULD BE RESTORED TO EXISTING CONDITION PER THE PROJECT RESTORATION NOTES AND DETAILS. EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN DEVELOPED TO INCORPORATE THESE POTENTIALLY DISTURBED AREAS.



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0	08/03/2023	ISSUED FOR CONSTRUCTION SUBMISSION	JM	SB
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP

CHAMPLAIN HUDSON POWER EXPRESS

SEGMENT 6 (PACKAGE 4A) - CP: BALLSTON TO GLENVILLE

PACKAGE SPECIFIC NOTES

NEWIT PROJECT NO.

21162

KC PROJECT NO.

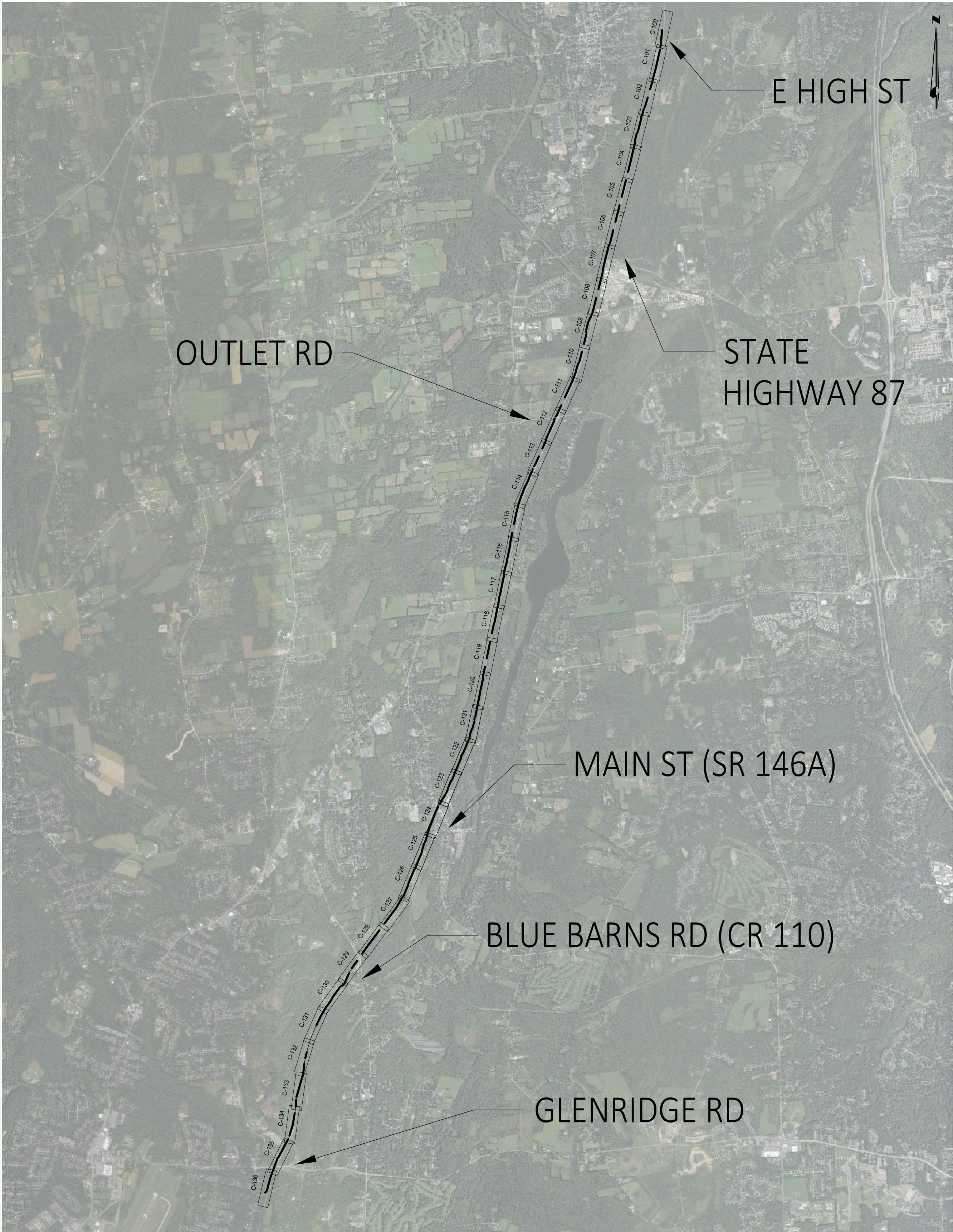
120174

DRAWING NO.

G-003

DATE	08/03/2023
SH.NO.	-- OF --

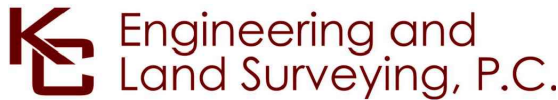
File: P:\120174-CHPE_CABLE_INSTALL-KEWIT\60_CAD\20_ENGINEERING_CAD_FILES\PACKAGE_4A\NY_COMMON\01_KCE\SHRIT_FILES\21162_4A_0_005.DWG Saved: 7/31/2023 4:21:07 PM Plotted: 8/1/2023 4:43:02 PM Current User: Jennifer Monteleza LastSavedBy: jmontaleza



PLAN AND PROFILE KEY MAP
SCALE: 1" = 3000'

STRUCTURE TABLE				
STRUCTURE NAME	STATION	NORTHING	EASTING	FINISHED GRADE
LINK BOX HANDHOLE 118	40023+75.47	1517444.2808	668608.0290	293.758
LINK BOX HANDHOLE 123	40152+36.07	1505058.4821	665341.1796	283.203
LINK BOX HANDHOLE 128	40293+00.44	1491713.3772	661264.2688	268.869
LINK BOX HANDHOLE 134	40423+33.21	1479865.7789	656254.9680	262.922
SPLICE LOCATION 118	40023+76.64	1517439.5166	668620.1884	291.614
SPLICE LOCATION 119	40048+29.35	1515101.5399	667920.4176	295.908
SPLICE LOCATION 120	40058+87.02	1514071.0626	667704.0374	295.254
SPLICE LOCATION 121	40090+68.09	1510986.9424	666924.6549	295.745
SPLICE LOCATION 122	40121+96.97	1507958.6906	666162.5880	292.953
SPLICE LOCATION 123	40152+36.07	1505054.6336	665353.5969	281.395
SPLICE LOCATION 124	40184+91.36	1502078.7425	664073.2183	283
SPLICE LOCATION 125	40215+31.37	1499300.9429	662873.8517	283.27
SPLICE LOCATION 126	40247+22.19	1496190.9185	662190.9883	280.723
SPLICE LOCATION 127	40275+98.70	1493377.3441	661621.0664	268.792
SPLICE LOCATION 128	40293+01.61	1491709.6030	661276.7705	268.869
SPLICE LOCATION 129	40319+23.48	1489159.7843	660728.4528	270.727
SPLICE LOCATION 130	40344+13.51	1486866.5057	659794.8760	282.414
SPLICE LOCATION 131	40374+35.73	1484095.5825	658625.8141	274.992
SPLICE LOCATION 133	40405+58.89	1481277.5101	657329.8533	270.462
SPLICE LOCATION 134	40423+34.34	1479857.0629	656264.6935	262.174
SPLICE LOCATION 135	40454+23.02	1477322.7275	654548.6675	257.993
SPLICE LOCATION 136	40479+98.58	1474985.9563	653510.1703	261.972
SPLICE LOCATION 137	40506+29.94	1472411.8251	653013.6946	233.75
SPLICE LOCATION 138	40537+15.11	1469547.2358	651929.4412	235.373

STRUCTURE TABLE				
STRUCTURE NAME	STATION	NORTHING	EASTING	FINISHED GRADE
FIBER HANDHOLE 118	40024+37.21	1517381.3689	668603.2283	294.041
FIBER HANDHOLE 119	40048+89.92	1515042.8215	667905.5535	297.395
FIBER HANDHOLE 120	40059+47.59	1514012.3381	667689.1973	295.605
FIBER HANDHOLE 121	40091+28.66	1510928.2220	666909.7986	295.995
FIBER HANDHOLE 122	40122+57.54	1507899.9396	666147.8530	293.054
FIBER HANDHOLE 123	40152+96.64	1504996.7834	665335.6484	283.221
FIBER HANDHOLE 124	40185+51.93	1502023.4894	664048.4012	283
FIBER HANDHOLE 125	40215+91.94	1499243.6166	662854.2942	284.642
FIBER HANDHOLE 126	40247+82.77	1496131.5061	662179.2001	282
FIBER HANDHOLE 127	40276+59.27	1493318.0278	661608.8039	269.882
FIBER HANDHOLE 128	40293+62.18	1491650.2800	661264.5406	270
FIBER HANDHOLE 129	40319+84.06	1489102.9967	660707.3823	270.999
FIBER HANDHOLE 130	40344+74.09	1486810.5949	659771.5758	282.583
FIBER HANDHOLE 131	40374+96.30	1484037.4804	658608.6985	275.583
FIBER HANDHOLE 133	40406+19.52	1481229.0028	657293.4789	274.292
FIBER HANDHOLE 134	40423+94.87	1479808.6413	656228.3833	263.777
FIBER HANDHOLE 135	40454+83.63	1477272.8624	654514.2006	258
FIBER HANDHOLE 136	40480+59.06	1474927.2322	653495.7065	264.034
FIBER HANDHOLE 137	40506+90.52	1472352.1140	653003.4330	234.768
FIBER HANDHOLE 138	40537+75.62	1469488.8681	651913.4835	236



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0	08/03/2023	ISSUED FOR CONSTRUCTION SUBMISSION	JM	SB	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 6 (PACKAGE 4A) - CP: BALLSTON TO GLENVILLE
KEY PLAN

DRAWN BY:	cs	DESIGNED BY:	JM	APPROVED BY:	SB	SCALE	AS NOTED	DATE	08/03/2023
						REV. NO.		SH.NO.	-- OF --

KIEWIT PROJECT NO.	21162
KC PROJECT NO.	120174
DRAWING NO.	G-005

NOTE: THE NOISE RECEPTORS THAT MAY OCCUR NEAR THIS PACKAGE AT VARIOUS POINTS INCLUDE RESIDENCES AND BUSINESSES. SECTION 10.2 DESCRIBES THE NOISE CONTROL MEASURES THAT WILL BE EMPLOYED THROUGHOUT THIS PACKAGE.

PACKAGE 4A – EM&CP NOISE SENSITIVE AREAS NOTE

- NOTES:
- 1.THE STORMWATER POLLUTION PREVENTION PLAN INCLUDED IN APPENDIX G OF THE EM&CP DESCRIBES THE EROSION AN SEDIMENT CONTROLS THAT WILL BE FOLLOWED FOR THIS PACKAGE.
 - 2.THE EROSION AND SEDIMENT CONTROL PLANS CAN BE FOUND ON SHEET C-400 TO SHEET C-418 FOR THIS PACKAGE.

PACKAGE 4A – EM&CP EROSION AND SEDIMENT CONTROL NOTES

NOTE: SECTION 11.0 AND APPENDIX O DESCRIBE THE CULTURAL RESOURCES IDENTIFIED WITHIN THIS PACKAGE AND THE BEST MANAGEMENT PRACTICES TO FOLLOW TO PROTECT THESE RESOURCES. SECTION 11.3 AND 11.4 DESCRIBE THE PROCEDURES TO FOLLOW DURING THE UNANTICIPATED DISCOVERY OF ARCHEOLOGICAL RESOURCES OR HUMAN REMAINS.

PACKAGE 4A – CULTURAL RESOURCES

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 Chapter 8)
Building and Structure Removal	4.9
Access Roads	4.10
Driveway Access During Construction	4.10.1
Access Through Wetlands or Streams	4.10.2
Access Through Agricultural Lands	4.10.3
Drain Lines and Under Drains Within Agricultural Lands	4.10.4
Soil Management Plan	4.11 and Appendix L
Culvert Replacement and Temporary Drainage	4.12
Rock Removal	4.13
Inadvertant Damage to Existing Utilities	4.14
Note: The Table above summarizes the construction methods and associated subsections that summarize the measures and standards that will be followed within this Segment.	

PACKAGE 4A – CONSTRUCTION METHODS

Table 4.1 - HDD Locations					
Segment/ Package	HDD Designation	Length (feet)	Reason for HDD	Sheet	Location (Approximate- see Drawings for Details)
S6/P4A	HDD-51	1097/2018	Road/Rail/Wetland	C-100 to C-101	40001+97 to 40022+12
S6/P4A	HDD-52	2701	Wetland	C-104 to C-106	40060+84 to 40087+80
S6/P4A	HDD-53	815	Road (Rail Bridge)/Stream	C-107	40098+47 to 40106+61
S6/P4A	HDD-53A	624/627	Culvert/Stream (Rail Bridge)	C-115 to C-116	40227+56 to 40233+76
S6/P4A	HDD-59	1124/1159	Culvert	C-127 to C-128	40409+11 to 40420+63
S6/P4A	HDD-59A	1826	Road/Rail	C-128 to C-130	40425+37 to 40443+60
S6/P4A	HDD-59B	829	Rail/Wetland	C-133	40489+8240498+10
S6/P4A	HDD-60	1332/1335	Wetland/Streams (Rail Bridge)	C-134 to C-135	40511+60 to 40524+98
S6/P4A	HDD-61	684/689	NYSDOT Road	C-135 to C-136	40527+60 to 40534+42

Note: Table 4.1 describes the locations of HDD activity within this Package. HDD will be performed in accordance with the Horizontal Direction Drilling Site Investigation and Planning Report and Inadvertent Release and Contingency Plan in Appendix J, the specifications described in Section 4.3.1, and the BMP document.

PACKAGE 4A – HDD LOCATIONS

Table 4.2 - Structures within 100 Feet of HDD or Trenching Operations					
HDD#/ Trench	Structure	Parcel ID	Sheet Number	Location (Approximate – see Drawings for Details)	Notes
HDD#51	Private Residence	216.42-4-3	C-100	40007+00	S. Side of East High Street
HDD#51	Shed - Private Residence	216.42-4-21	C-101	40009+50	E. Side of Kaleen Dr.
HDD#51	Private Residence	216.42-4-7	C-101	40010+50	E. Side of Kaleen Dr.
HDD#51	Private Residence	216.42-4-8	C-101	40011+50	E. Side of Kaleen Dr.
HDD#51	Private Residence	216.42-4-9	C-101	40012+50	E. Side of Kaleen Dr., Residence under construction
HDD#51	Private Residence	216.42-4-10	C-101	40014+00	E. Side of Kaleen Dr.
HDD#51	Shed - Private Residence	216.42-4-11	C-101	40015+25	E. Side of Kaleen Dr.
HDD#51	Railroad Signal	239.-1-16	C-101	40018+00	
HDD#51	Propane Tank – Railroad	239.-1-16	C-101	40019+25	
Trench	Electrical Substation	239.1-5	C-124	40354+00	N. Side of NYS Rt. 146A, W. of Railroad Tracks
Trench	Private Residences	257.12-4.1	C-124	40355+00	N. Side of NYS Rt. 146A, W. of Railroad Tracks
Trench	Private Business	257.12.1-33	C-124	40357+00	S. Side of NYS Rt. 146A, W. of Railroad Tracks
Trench	Railroad - SignalHouse	239.-1-16	C-124	40357+00	S. Side of NYS Rt. 146A, W. of Railroad Tracks
Trench	Private Residence	257.16-1-10	C-124	40365+00	E. Side of Firemans Ln.
Trench	Private Residence and Outbuildings	257-S-7	C-125	40370+00	E. Side of Firemans Ln.
Trench	Private Residence	263.-2-70	C-129	40429+50	N. Side of Blue Barns Rd.
Trench	Railroad - SignalHouse	239.-1-3	C-130	40448+25	S. Side of Rustic Ridge Rd.
Note: Table 4.2 identifies the building structures located within 100 feet of trenching and HDD activities for this Package. Section 4.3.2 summarizes the procedures for vibration monitoring where applicable.					

PACKAGE 4A – STRUCTURES

Table 4.5B – Facility ROW Ownership and Easements					
Segment/ Package	Parcel ID	Description	Sheet Number	Location (Approximate – See Drawings for Details)	Comments
S6/P4A	216.-2-1	Permanent & Temporary	C-100	40000+00 to 40005+71	Outside Deviation Zone
S6/P4A	East High Street ROW	Permanent & Temporary	C-100	40005+71to 40006+45	Public; Outside Deviation Zone
S6/P4A	216.42-1-4.1	Permanent	C-100	40006+45 to 40007+77	Outside Deviation Zone
S6/P4A	216.42-4-3	Permanent	C-100 & C-101	40007+77 to 40008+02, 40008+02 to 40009+10	Private
S6/P4A	216.00-2-31	Temporary Construction	C-101 & C-102	40021+75 to 40035+00	Outside Deviation Zone
S6/P4A	216.-4-6	Temporary Construction	C-101 & C-102	40022+50 to 40024+50	Private
S6/P4A	216.-4-5	Temporary Construction	C-102	40023+50 to 40024+50	Private
S6/P4A	216.00-2-31	Permanent & Temporary	C-102	40023+00 to 40035+00, 40024+00 to 40026+36	Outside Deviation Zone
S6/P4A	216.00-2-32	Permanent & Temporary	C-102	40034+60 to 40035+60, 40030+80 to 40035+60	Outside Deviation Zone
S6/P4A	216.-2-29.2	Permanent & Temporary	C-102 & C-103	40035+60 to 40038+90	Outside Deviation Zone
S6/P4A	Zepko Lane ROW	Permanent & Temporary	C-103	40038+90 to 40039+12	Public; Outside Deviation Zone
S6/P4A	216.-2-29.1	Permanent & Temporary	C-103	40039+12 to 40039+83	Outside Deviation Zone
S6/P4A	216.00-2-52	Permanent & Temporary	C-103 & C-104	40039+83 to 40053+12, 40045+66 to 40050+50	Outside Deviation Zone
S6/P4A	216.00-2-52	Temporary Construction (Access Rd)	C-103	40051+50 to 40052+00	Private
S6/P4A	216.-2-38	Permanent & Temporary	C-104	40053+12 to 40062+00, 40056+89 to 40062+00	Outside Deviation Zone
S6/P4A	228.00-2-1	Permanent	C-104 & C-105	40064+48 to 40077+13	Outside Deviation Zone
S6/P4A	28.00-2-32	Permanent & Temporary	C-105 & C-106	40077+13 to 40082+96, 40082+96 to 40083+83	Outside Deviation Zone
S6/P4A	228.-2-29.1	Permanent & Temporary	C-106	40083+83 to 40090+19, 40087+38 to 40090+19	Outside Deviation Zone
S6/P4A	228.-2-41	Permanent & Temporary	C-106 & C-107	40090+19 to 40101+85, 40090+19 to 40093+55, 40090+19 to 40101+00	Outside Deviation Zone
S6/P4A	228.-2-41	Temporary Construction (Access Rd)	C-107	40100+50 to 40101+00	Private
S6/P4A	Rt 67 ROW	Permanent	C-107	40101+85 to 40102+91	Public; Outside Deviation Zone
S6/P4A	228.00-2-41	Permanent	C-107	40102+91 to 40103+45	Outside Deviation Zone
S6/P4A	228.00-3-18	Permanent & Temporary	C-107	40103+45 to 40108+92, 40106+36 to 40108+02, 40106+36 to 40108+92	Outside Deviation Zone
S6/P4A	228.-3-16.1	Permanent & Temporary	C-107 & C-108	40108+92 to 40127+80	Outside Deviation Zone
S6/P4A	239.-1-15	Permanent & Temporary	C-108 & C-109	40127+80 to 40129+50	Outside Deviation Zone
S6/P4A	228.-3-30.2	Permanent & Temporary	C-109	40129+50 to 40130+00	Private
S6/P4A	228.-3-58.11	Permanent & Temporary	C-109	40130+00 to 40136+82, 40130+00 to 40139+70	Outside Deviation Zone
S6/P4A	228.-3-30.114	Temporary Construction (Access Rd)	C-109	40132+00 to 40143+00	Private
S6/P4A	228.-3-58.11	Temporary Construction (Access Rd)	C-109	40132+00 to 40143+00	Private
S6/P4A	239.-1-15	Permanent & Temporary	C-109 & C-110	40136+82 to 40150+25, 40136+82 to 40142+33	Outside Deviation Zone
S6/P4A	228.00-3-27.1	Temporary Construction	C-109 & C-110	40139+70 to 40144+96	Private
S6/P4A	228.00-3-28.1	Temporary Construction	C-110	40144+96 to 40146+68	Private
S6/P4A	239.00-1-6.1	Permanent & Temporary	C-110	40149+00 to 40158+82, 40146+68 to 40158+82	Outside Deviation Zone
S6/P4A	239.-1-15	Temporary Construction	C-110	40149+00 to 40153+35	Private
S6/P4A	239.00-1-10.31	Permanent & Temporary	C-111	40158+82 to 40160+20, 40158+82 to 40160+20	Outside Deviation Zone
S6/P4A	239.00-1-10.321	Permanent & Temporary	C-111 & C-112	40160+20 to 40176+50	Outside Deviation Zone
S6/P4A	Outlet Road ROW	Permanent & Temporary	C-112	40176+50 to 40177+03	Public; Outside Deviation Zone
S6/P4A	239.-1-15	Permanent	C-111 & C-112	40169+28 to 40175+50	Outside Deviation Zone
S6/P4A	239.-1-15	Temporary Construction	C-112	40173+63 to 40177+55	Private
S6/P4A	239.00-1-38	Permanent & Temporary	C-113	40192+88 to 40193+19	Outside Deviation Zone

PACKAGE 4A – FACILITY ROW OWNERSHIP AND EASEMENTS

Table 4.5A – CC 140 Waivers Requested for Segment 6 - Package 4A					
Segment/ Package	Parcel ID	Description	Sheet Number	Location (Approximate – See Drawings for Details)	Comments
S6/P4A	239.00-1-22.1	Permanent	C-115	40219+19 to 40225+65	Private
Note: Table 4.4A summarizes the easements that are in place along this Segment that CHPE is seeking waivers per CC 140. Section 4.7 summarizes the Certificate Holders justification for seeking wavier per CC 140.					

PACKAGE 4A – WAIVERS REQUESTED AND EASEMENTS

S6/P4A	Connolly Road ROW	Temporary Construction	C-113	40193+19 to 40193+43	Public
S6/P4A	239.00-1-19.21	Temporary Construction	C-113	40193+43 to 40193+57	Private
S6/P4A	239.00-1-64	Temporary Construction	C-113	40193+57 to 40193+75	Private
S6/P4A	239.00-1-91	Permanent & Temporary	C-113 & C-114	40193+75 to 40206+43	Outside Deviation Zone
S6/P4A	239.-1-15	Permanent & Temporary	C-114	40205+78 to 40209+80	Outside Deviation Zone
S6/P4A	239.17-3-1	Permanent & Temporary	C-114	40206+43 to 40214+21	Outside Deviation Zone
S6/P4A	239.00-1-22.1	Permanent & Temporary	C-114 & C-115	40218+71 to 40220+64	Private
S6/P4A	239.-1-15	Temporary Construction	C-115	40219+19 to 40226+96	Private
S6/P4A	239.00-1-22.1	Temporary Construction	C-115	40225+65 to 40226+68	Private
S6/P4A	249.00-4-2	Temporary Construction	C-115 & C-116	40226+68 to 40234+55	Private
S6/P4A	White's Beach Road ROW	Temporary Construction	C-116	40234+55 to 40235+19	Public
S6/P4A	249.00-4-4.2	Permanent & Temporary	C-116	40235+19 to 40239+65	Outside Deviation Zone
S6/P4A	239.-1-15	Temporary Construction	C-116	40238+62 to 40241+19	Private
S6/P4A	248.00-2-14.211	Permanent & Temporary	C-116 & C-117	40239+65 to 40251+20	Outside Deviation Zone
S6/P4A	248.00-2-86.1	Permanent & Temporary	C-117 to C-119	40251+20 to 40291+15	Outside Deviation Zone
S6/P4A	239.-1-15	Temporary Construction	C-118	40265+98 to 40277+61, 40274+33 to 40277+41	Private
S6/P4A	239.-1-15	Temporary Construction	C-119	40283+51 to 40287+51, 40288+85 to 40291+14	Private
S6/P4A	248.00-2-86.1	Permanent & Temporary	C-119 to C-120	40287+44 to 40292+26, 40288+85 to 40302+50	Outside Deviation Zone
S6/P4A	257.00-4-1.23	Permanent & Temporary	C-120 to C-121	40302+50 to 40319+50	Outside Deviation Zone
S6/P4A	257.00-4-1.1	Permanent & Temporary	C-121 to C-123	40319+50 to 40338+63	Outside Deviation Zone
S6/P4A	257.-4-5	Permanent & Temporary	C-123	40338+63 to 40347+25	Outside Deviation Zone
S6/P4A	257.12-1-28	Permanent & Temporary	C-123	40347+25 to 40349+00	Outside Deviation Zone
S6/P4A	257.12-1-29	Permanent & Temporary	C-123	40349+00 to 40350+75	Outside Deviation Zone
S6/P4A	257.12-1-84	Permanent & Temporary	C-123	40350+75 to 40350+78	Outside Deviation Zone
S6/P4A	RT 146A ROW	Permanent & Temporary	C-123	40350+78 to 40355+75	Public; Outside Deviation Zone
S6/P4A	257.12-1-33	Temporary Construction	C-123	40355+75 to 40357+36	Private
S6/P4A	257.-4-6	Temporary Construction	C-123 to C-124	40357+36 to 40362+00	Public
S6/P4A	257.00-5-7	Temporary Construction	C-124 to c-125	40371+00 to 40377+00	Outside Deviation Zone
S6/P4A	257.00-5-3.1	Temporary Construction	C-125	40376+91 to 40377+38	Private
S6/P4A	257.-2-1	Permanent & Temporary	C-125 to C-127	40377+00 to 40397+00	Outside Deviation Zone
S6/P4A	263.-1-2	Permanent & Temporary	C-127	40397+00 to 40410+00	Outside Deviation Zone
S6/P4A	257.00-5-55	Permanent & Temporary	C-127 to C-128	40410+00 to 40414+75	Outside Deviation Zone
S6/P4A	263.00-2-72	Permanent & Temporary	C-128	40414+75 to 40423+37	Outside Deviation Zone
S6/P4A	263.00-2-70	Permanent & Temporary	C-128 to C-129	40423+37 to 40430+00	Outside Deviation Zone
S6/P4A	Blue Barn Rd	Permanent & Temporary	C-129	40430+00 to 40431+00	Public; Outside Deviation Zone
S6/P4A	263.00-1-42	Permanent & Temporary	C-129 ro C-130	40431+00 to 40436+50	Outside Deviation Zone
S6/P4A	263.-1-2	Permanent & Temporary	C-130	40436+50 to 40440+00	Outside Deviation Zone
S6/P4A	263.00-1-9.11	Permanent & Temporary	C-130	40441+00 to 40443+00	Outside Deviation Zone
S6/P4A	263.00-1-9-3	Permanent & Temporary	C-130	40443+00 to 40444+10	Outside Deviation Zone
S6/P4A	263.00-1-9-4	Permanent & Temporary	C-130	40444+10 to 40445+85	Outside Deviation Zone
S6/P4A	263.11-1-1	Permanent & Temporary	C-130	40445+85 to 40447+85	Outside Deviation Zone
S6/P4A	Rustic Bridge Rd	Permanent & Temporary	C-130	40447+85 to 40448+25	Public; Outside Deviation Zone
S6/P4A	263.11-1-10	Temporary Construction	C-130	40448+25 to 40450+00	Private
S6/P4A	263.10-1-18	Permanent & Temporary	C-130 to C-131	40452+00 to 40466+25	Outside Deviation Zone
S6/P4A	264.-2-15	Permanent & Temporary	C-131 to C-132	40466+25 to 40481+50, 40485+50 to 40493+50	Outside Deviation Zone
S6/P4A	23.-1-21	Permanent & Temporary	C-132 to C-134	40495+00 to 40513+50	Outside Deviation Zone
S6/P4A	23.00-1-19.1	Permanent & Temporary	C-133 to C-134	40513+50 to 40518+00	Outside Deviation Zone
S6/P4A	23.00-1-2.2	Permanent & Temporary	C-135	40518+00 to 40520+00	Outside Deviation Zone
S6/P4A	23.00-1-11.12	Permanent & Temporary	C-135	40520+00 to 40527+50	Outside Deviation Zone
S6/P4A	23.09-3-4.13.1	Permanent & Temporary	C-135	40528+50 to 40531+00	Outside Deviation Zone
S6/P4A	23.09-3-4.3	Permanent & Temporary	C-135	40532+00 to 40540+50	Outside Deviation Zone
S6/P4A	23.13-1-18.11	Permanent & Temporary	C-135	40540+50 to 40543+00	Outside Deviation Zone
Note: Table 4.5B summarizes the parcels upon which the alignment and Construction Zone will be located. Section 4.7 summarizes the procedures that will be followed in regards to land access and acquisition.					

