

Young / Sommer LLC

ATTORNEYS AT LAW

EXECUTIVE WOODS, FIVE PALISADES DRIVE, ALBANY, NY 12205
Phone: 518-438-9907 • Fax: 518-438-9914

www.youngsommer.com

Writer's Telephone: 249
ldarling@youngsommer.com

March 5, 2024

Hon. Michelle Phillips, Secretary
NYS Public Service Commission
Three Empire State Plaza
Albany, NY 12223-1350

Re: Case 10-T-0139: Application of Champlain Hudson Power Express

Dear Secretary Phillips:

Enclosed for filing on the above proceeding, on behalf of CHPE LLC and CHPE Properties, Inc. (together "CHPE" or the "Certificate Holders"), please find a Change Notice proposed to the Segment 6 and 7 Environmental Management and Construction Plan (EM&CP).

Please feel free to reach out to my office with any questions regarding this filing.

Sincerely,

/s/ **Laura Bomyea Darling**
Laura Bomyea Darling, Esq.
Young/Sommer LLC
Attorneys for CHPE

Enclosures



CHPE LLC
623 Fifth Avenue, 20th Floor
New York, NY 10022

**Champlain Hudson Power Express (“CHPE”)
Environmental Management & Construction Plan
Notice of Major Change**

Project: Champlain Hudson Power Express

Segment: 06

Notice Number: CN 063

PSC Case: 10-T-0139

USACE Permit Number: NAN-2009-01089-M9

Location (Milepost, Town/County): MP 164.8 to MP 165.9, Town of Ballston, Saratoga County, New York

Drawing References: Segment 6 (Package 4A): C-121, C-122, C-123, C-124, C-125, C-304B, C-304B.1, C-304C, C-304C.1, C-411, C-412, C-413

Other Documents/References: N/A

Component(s) Impacted by Change: EM&CP Appendix C, Appendix E, and Appendix J

Description of Change:

This change involves a shift in the alignment outside of the deviation zone, related to a previously approved deviation (S6-P4A#5) included in the Segment 6 and 7 EM&CP. These changes are the result of coordination between National Grid, the Town of Ballston, and Champlain Hudson Power Express and consist of a change in installation methodology from a trenched cable installation to a trenchless horizontal directional drill (HDD) approach from approximately station 40352 to 40372, which addresses concerns related to collocated infrastructure, public land and community impacts. National Grid and the Town of Ballston have accepted the updated construction approach and alignment. This revision also has the benefit of reducing impacts to the travelling public by eliminating the trenched crossing of Main Street / Rte. 146.A / Burnt Hills Road.

Overall, this change does not result in a substantial increase to environmental impacts. In fact, this change leads to an overall 6,077 square feet (SF) net reduction of wetland impacts, although there is one 316 SF area of PSS wetlands which were not previously impacted. All changes to wetland impacts are to wetlands in USACE jurisdiction, not State-regulated wetlands. However, there is a 448 SF increased temporary impact to the state-regulated wetland *adjacent area* (buffer area) of wetland FA-DZ, of NYSDEC (R-18) jurisdiction. See attached for a comprehensive listing of revised rows of the waterbodies and wetlands impact tables (EM&CP tables 9.1 and 9.2, respectively), which will be provided to USACE.

Pursuant to Condition 158(b), this change does not require referral to the Commission based on a substantial increase in environmental impacts, nor does it relate to contested issues decided during the proceeding. While this change does involve State Highway 146(A), it involves an overall reduction in impacts to that State Highway, since it removes a trenched crossing in favor of an HDD. However, as noted above, this change involves shifting a portion of the alignment outside of the deviation zone, as previously modified by the Segment 6 and 7 EM&CP Approval Order (September 14, 2023, DMM Item 1390), and is submitted as a change to the approved EM&CP and Facility route under Certificate Condition 158.

As noted above, this design change occurs within the previously identified excursion S6-P4A#5, discussed in Appendix E to the approved Segment 6 and 7 EM&CP. Updates to the text of S6-P4A#5 resulting from this change are below. The same grounds which justified approval of this excursion in the Segment 6 and 7 EM&CP justify the approval of this additional shift in alignment to further avoid and minimize impacts to collocated infrastructure, wetlands, the host community, public lands and the traveling public.

Updates to Excursion S6-P4A#5

1. Description of the Excursion

The length of the excursion is approximately 30,933 linear feet and approximately 5,093 feet is HDD below grade with no surface disturbance. The proposed excursion occurs approximately 220 linear feet west of the ADZ at the farthest point.

2. Justification

In addition to the previously provided justification, this change is justified as a means to reduce potential conflicts with collocated infrastructure, as well as impacts to wetlands, the host community, public lands and the traveling public/local roadways .

3. Environmental Impact

Recreation -- Temporary closures of the Veterans Bike Path will be required to complete the work. CHPE is coordinating with the Town of Ballston for closure scheduling, public notification, and detours and is in the process of finalizing a Road Use Agreement related thereto.

Agricultural Resources -- *No change.*

Cultural Resources -- *No change.*

Threatened and Endangered Species – *No change.*

Wetlands and Streams – Revised impacts to streams and wetlands are shown in Table 9.1 and Table 9.2 updates, attached.

CC Requirements for Modifying an EMCP

#	Certificate Condition	Description of the Proposed change
158	The EM&CP approved by the Commission may incorporate modifications from the EM&CP proposed by the Certificate Holders. No change to the approved EM&CP may thereafter be made except in accordance with the following procedures:	
158(a)	For a proposed change that: (i) would involve a site listed or eligible for listing on the New York State or National Register of Historic Places, the Certificate Holders shall give at least two (2) weeks prior notice to the Field Service Bureau of OPRHP. (ii) would involve any State-regulated wetland or protected stream or water body, the Certificate Holders shall give at least two weeks prior notice to NYSDEC, and, if within the Adirondack Park, to APA. (iii) would affect the occupied habitat of a TE species, the Certificate Holders shall give at least two weeks prior notice to NYSDEC and to the USFWS or NMFS (where applicable) prior to providing notice to DPS staff of the proposed change. (iv) would affect the individual or habitat supporting RTE plants, the Certificate Holders shall give at least two (2) weeks prior notice to NYSDEC and DPS. (v) would involve agricultural land, the Certificate Holders shall give at least two (2) weeks prior notice to Ag & Mkts. (vi) would involve the herbicides planned for use (including mixed proportions, additives or method of application), the Certificate Holders shall give at least thirty (30) days prior notice to NYSDEC. (vii) would affect land or water owned or controlled by CNY, the Certificate Holders shall give at least two (2) weeks prior notice to CNY.	<p>(i) This change does not involve a site listed in the NYS or National Register of Historic Places.</p> <p>(ii) This change involves new impacts to federally-regulated wetlands and new impacts to the adjacent area of a State-regulated wetland. It does not increase impacts to State-regulated wetlands or waterbodies. It is not located in the Adirondack Park.</p> <p>(iii) This does not affect the occupied habitat of a TE species.</p> <p>(iv) This change does not affect individual species or habitat supporting RTE plants.</p> <p>(v) The change does not involve Agricultural Land.</p> <p>(vi) There are no changes in herbicide use as result of the requested revision.</p> <p>(vii) The change is not on land owned or occupied by New York City.</p>
158(b)	The Certificate Holders shall report any proposed changes to the EM&CP to DPS Staff. DPS Staff will refer to the	See description above.

	Commission for approval any proposed changes that cause a substantial increase in environmental impact, after consultation with NYSDEC, any proposed changes that relate to contested issues decided during the proceeding, and any proposed changes affecting State highways (but need not do so if the report indicates NYSDOT’s agreement to such proposed changes). DPS Staff is authorized to approve all other proposed changes, in accordance with the procedure outlined herein, and will submit reports of such changes to the Secretary or the Secretary’s designee, which reports will be posted on the Commission’s website under this case number.	
158(c)	Upon being advised that DPS Staff will refer a proposed change to the Commission, the Certificate Holders shall notify all active parties that have requested to be so notified, as well as property owners or lessees whose property is affected by the proposed change. The notice shall: (i) describe the original conditions and the requested change; (ii) provide documents supporting the request; and (iii) state that persons may comment by writing to the Commission within twenty-one (21) days of the notification date.	N/A
158(d)	The Certificate Holders shall not execute any proposed change until they receive written approval from the Commission (if Commission approval is required pursuant to subparagraph (a) of this paragraph) or oral or written approval from DPS Staff (in the case of a change that Staff has authority to approve) except in emergency situations threatening personal injury, property damage, or severe adverse environmental impact, or as specified in the EM&CP. When the Certificate Holders have obtained oral approval from DPS Staff for a change, DPS Staff will confirm such approval in writing within ten (10) business days.	

Proposed Change Involves New/Additional Impacts to:

- Site listed or eligible for listing on the New York State or National Register of Historic Places [CC 158(a)(i)]
- State-regulated wetland or protected stream or water body [CC 158(a)(ii)]
- Occupied habitat of a TE species [CC 158(a)(iii)]
- Individual or habitat supporting RTE plants [CC 158(a)(iv)]
- Agricultural land [CC 158(a)(v)]
- Herbicides planned for use (including mixed proportions, additives or method of application) [CC 158(a)(vi)]
- Land or water owned or controlled by CNY [CC 158(a)(vii)]
- Federally regulated wetland or protected stream or water body [Requires Transmittal to ACOE]



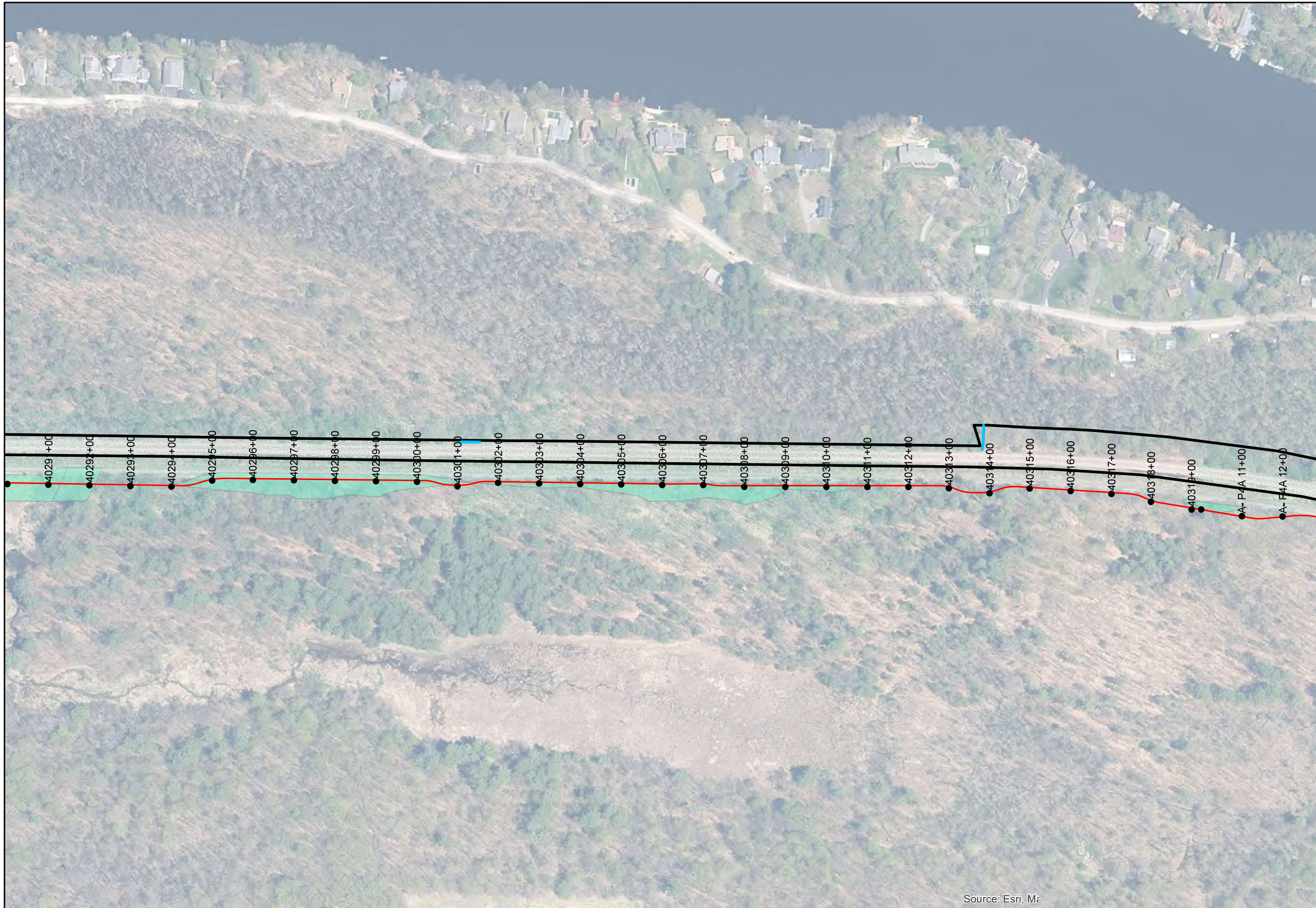
CHPE LLC
623 Fifth Avenue, 20th Floor
New York, NY 10022

Segment 6 (Package 4A)
**EM&CP Appendix E Updates to
Excursion S6-P4A#5 GIS Exhibit**

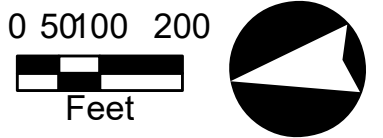
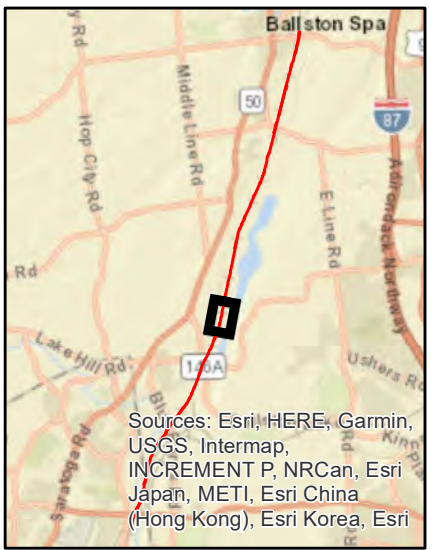
CHPE EM&CP

Saratoga and
Schenectady County,
New York

Deviation Zone Analysis



- Stations
- Revised Alignment Stations
- Excursions
- Excursions (Previous Alignment)
- Delineated Streams
- ▭ Deviation Zone
- ▨ Wetland Buffer
- ▭ Delineated Wetlands



Source: Esri, M

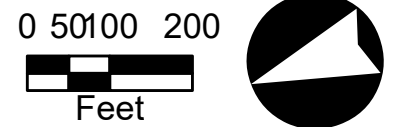
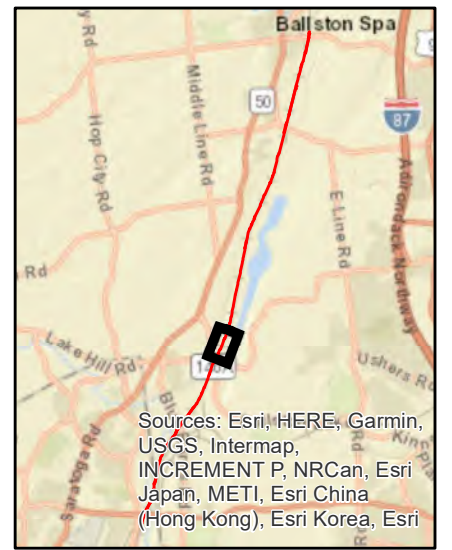
CHPE EM&CP

Saratoga and
Schenectady County,
New York

Deviation Zone Analysis



- Revised Alignment Stations
- Excursions
- - - HDD Excursions
- Excursions (Previous Alignment)
- Delineated Streams
- Deviation Zone
- ▨ Wetland Buffer
- ▭ Delineated Wetlands



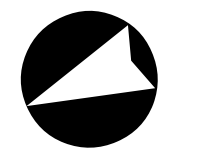
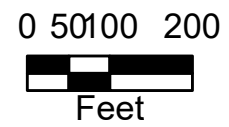
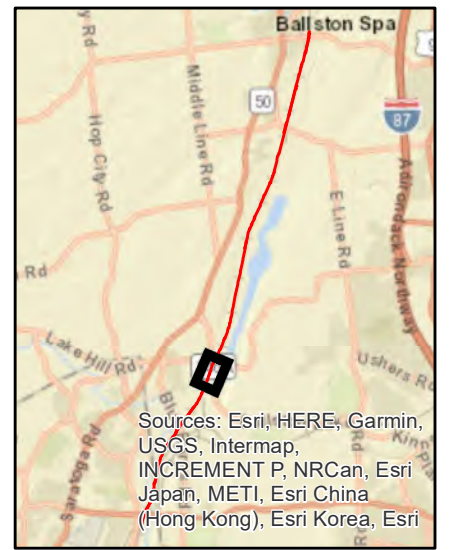
CHPE EM&CP

Saratoga and
Schenectady County,
New York

Deviation Zone Analysis



- Stations
- Revised Alignment Stations
- Excursions
- - - HDD Excursions
- Excursions (Previous Alignment)
- Delineated Streams
- ▭ Deviation Zone
- ▨ Wetland Buffer
- ▨ Delineated Wetlands





CHPE LLC
623 Fifth Avenue, 20th Floor
New York, NY 10022

Segment 6 (Package 4A)
EM&CP Table 9.1 and 9.2
Waterbody and Wetland Impact Summary Updates

CN 63 Wetland and Waterbody Impact Table Updates

Showing affected rows only

Table 9.1 – Waterbody Impact Summary Within Segment 6

Approximate Station	Waterbody Name	NYSDEC Classification*	Field ID**	Flow Status	Lat/Long	Avoidance and Minimization Measures	Impact
40345+00 (C-412)	Unnamed Tributary to Ballston Lake	Unmapped	S2	Intermittent	42.912733, -73.874256	Dry Crossing	122 Linear Feet
40346+25 (C-412)	Unnamed Tributary to Ballston Lake	C/C 941-72	S1	Intermittent	42.912483, -73.87435	Dry Crossing	118 Linear Feet

* Per 6 NYCRR Part 703. Classifications identified based on review of NYSDEC Environmental Resources Mapper (ERM).

** Unique flagging sequence used to delineate/differentiate feature in the field.

Table 9.2 – Wetland Impact Summary Within Segment 6

Wetland ID	Jurisdiction	Drawing Sheet Number and Approximate Station	Wetland Community Type*	Permanent ROW Impacts (square feet)	Temporary Construction Impacts (square feet)	State Wetland Buffer Temporary Construction Impacts (square feet)
G-O	USACE	40318+75 to 40320+25 (C121, C-411)	PEM	100	2,044	0
G-N	USACE	40325+00 to 40335+50 (C-122, C-411)	PFO	383	12,900	0
FA-DZ	USACE, NYSDEC (R-18)	40331+00 to 40337+50 (C-122, C-411)	PFO	0	0	5,494
G-L	USACE	40339+00 to 40353+50 (C-122, C-411)	PEM	1,252	3,429	0
			PFO	0	0	0
G-M	USACE	40343+00 to 40346+25 (C-123, C-412)	PSS	582	6,457	0
P4A-Q	USACE	40372+60 to 40379+25 (C-125, C-413)	PEM	1,566	3,222	0

* PEM – Palustrine emergent, .PSS – Palustrine scrub-shrub, PFO – Palustrine forest



CHPE LLC
623 Fifth Avenue, 20th Floor
New York, NY 10022

Segment 6 (Package 4A)
List of EM&CP Appendix C Sheet Revisions

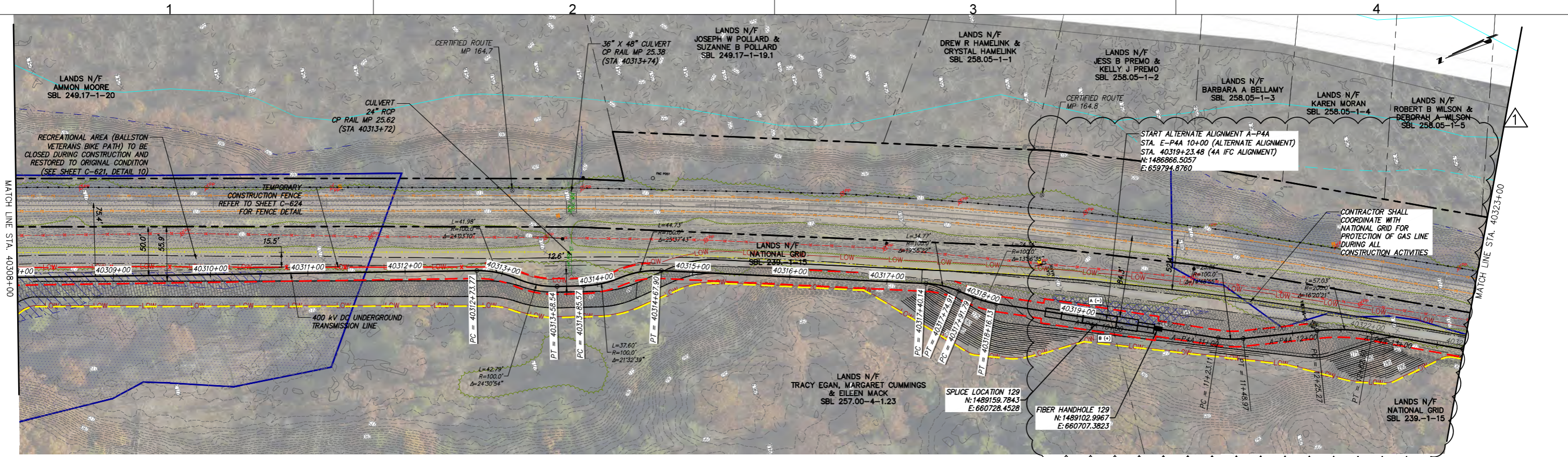
NDC-0042 -- CHANGE NOTICE #63 -- SUMMARY OF REVISIONS

EM&CP Appendix C - Plan Sheet Updates				
Seg	Sheet	Rev No	Revision Description	Summary
6	C-121	1	NDC-0042_Alignment Adjustment at Fireman's Lane	Nominal change only. Splice 130 was shifted (C-123), so new continuous stationing was established back to Splice 129.
6	C-122	1	NDC-0042_Alignment Adjustment at Fireman's Lane	Nominal change only. Splice 130 was shifted (C-123), so new continuous stationing was established back to Splice 129.
6	C-123	1	NDC-0042_Alignment Adjustment at Fireman's Lane	Shift of Splice location 130. Added HDD 57B. Alignment and LOW adjustments to support.
6	C-124	1	NDC-0042_Alignment Adjustment at Fireman's Lane	Added HDD 57B. Alignment and LOW adjustments to support.
6	C-125	2	NDC-0042_Alignment Adjustment For Fireman's Lane	Added HDD 57B. Alignment and LOW adjustments to support.
6	C-304B	0	Issued for Construction: NDC-0042	New HDD: 57B.
6	C-304B.1	0	Issued for Construction: NDC-0042	New HDD: 57B.
6	C-304C	0	Issued for Construction: NDC-0042	New HDD: 57B.
6	C-304C.1	0	Issued for Construction: NDC-0042	New HDD: 57B.
6	C-411	1	NDC-0042_Alignment Adjustment For Fireman's Lane	Created station equation to allow shift of splice 130. Nominal change only.
6	C-412	1	NDC-0042_Alignment Adjustment For Fireman's Lane	ESC updates based on revised alignment/LOW.
6	C-413	2	NDC-0042_Alignment Adjustment For Fireman's Lane	ESC updates based on revised alignment/LOW.



CHPE LLC
623 Fifth Avenue, 20th Floor
New York, NY 10022

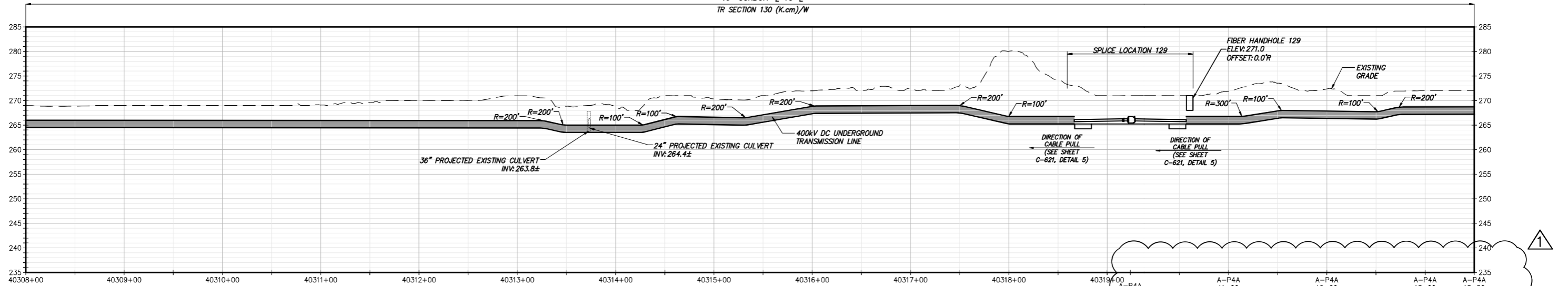
Segment 6 (Package 4A)
EM&CP Appendix C Revised Sheets



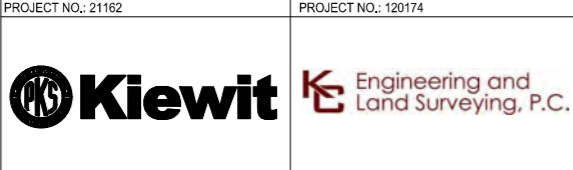
STA. 40308+00 TO STA. 40323+00 PLAN VIEW
SCALE: 1" = 50'

NOTE:
1. THE BALLSTON VETERAN'S BIKE PATH IS A NOISE SENSITIVE AREA. CONTRACTOR TO FOLLOW NOISE CONTROL MEASURES AS IDENTIFIED IN SECTION 10.2 OF EM&CP FROM 40169+00 TO 40349+25

TRENCH SECTION - TYPICAL
(SEE SHEET C-621, DETAIL 1A)
30" DUCTBANK WIDTH,
16" CONDUIT @ TO @
TR SECTION 130 (K.cm)/W



STA. 40308+00 TO STA. 40323+00 PROFILE VIEW
SCALE: H:1" = 50' V:1" = 10'



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.

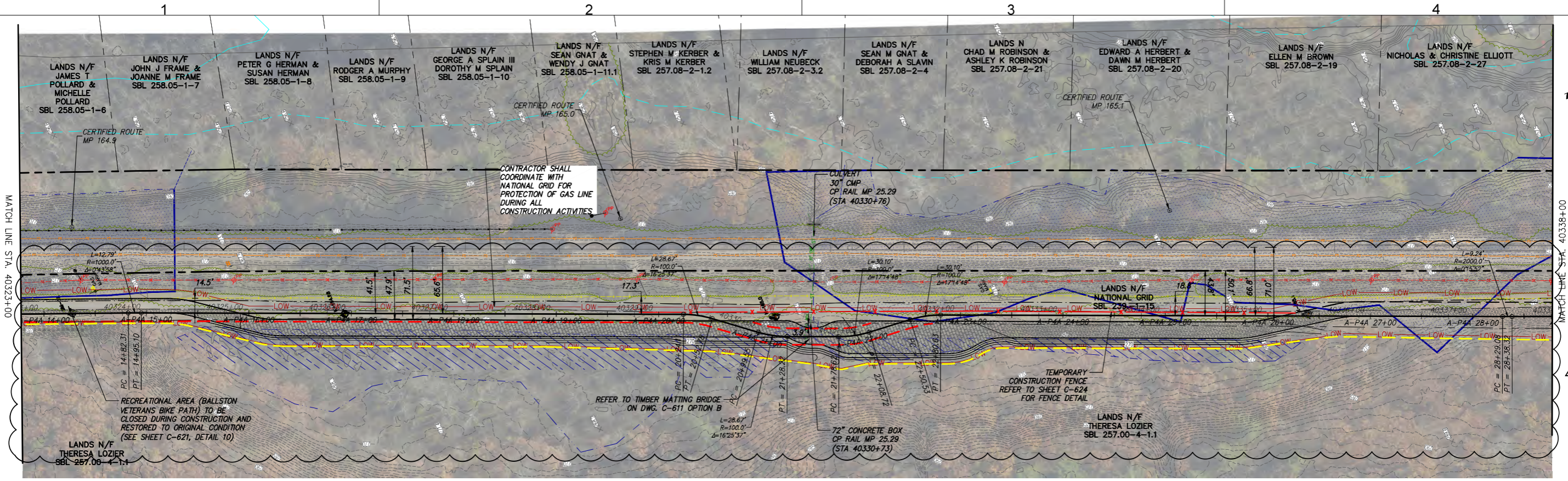
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
1	12/18/2023	NDC-0042 ALIGNMENT ADJUSTMENT AT FIREMAN'S LANE	JR	BD
0	08/03/2023	ISSUED FOR CONSTRUCTION SUBMISSION	CS	SB

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 6 (PACKAGE 4A) - CP: BALLSTON TO GLENVILLE
STA. 40308+00 TO STA. 40323+00 PLAN AND PROFILE

DRAWN BY: cs DESIGNED BY: JM APPROVED BY: SB
SCALE: AS NOTED
DATE: 08/03/2023

PERMIT DRAWING NO.
N/A
DRAWING NO.
C-121

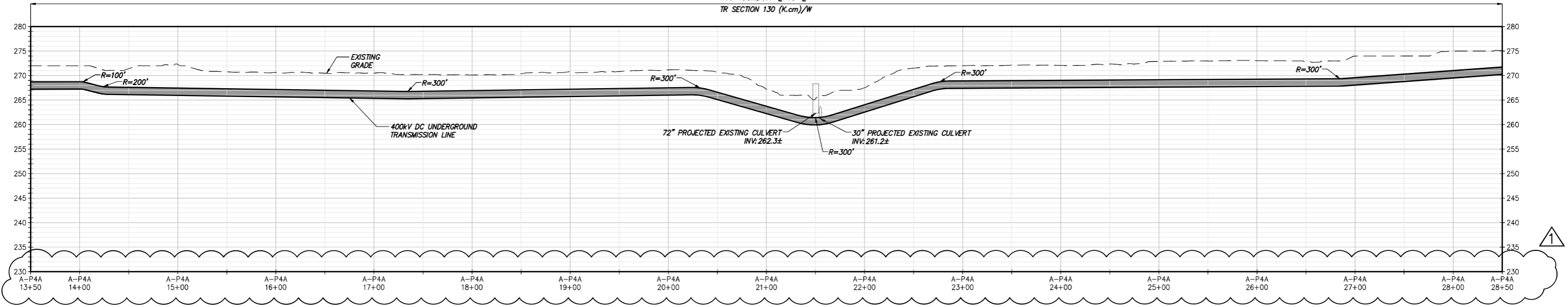
File: P:\20174-CHPE_CABLE_INSTALL-KIEWIT\CAD\20-ENGINEERING_CAD_FILES\PACKAGES_4A\NY_UTILITIES\OF_KCE\SHEET_FILES\21162_4A_C-121-125.DWG Sowed: 12/18/2023 2:54:36 PM Plotted: 12/18/2023 2:58:08 PM Current User: Devin McKenna ListSowedBy: dmckenna



STA. 40323+00 TO STA. 40338+00 PLAN VIEW
SCALE: 1" = 50'

NOTE:
1. THE BALLSTON VETERAN'S BIKE PATH IS A NOISE SENSITIVE AREA. CONTRACTOR TO FOLLOW NOISE CONTROL MEASURES AS IDENTIFIED IN SECTION 10.2 OF EM&CP FROM 40169+00 TO 40349+25

TRENCH SECTION - TYPICAL
(SEE SHEET C-621, DETAIL 1A)
30" DUCTBANK WIDTH,
16" CONDUIT & TO &
TR SECTION 130 (K.cm)/W



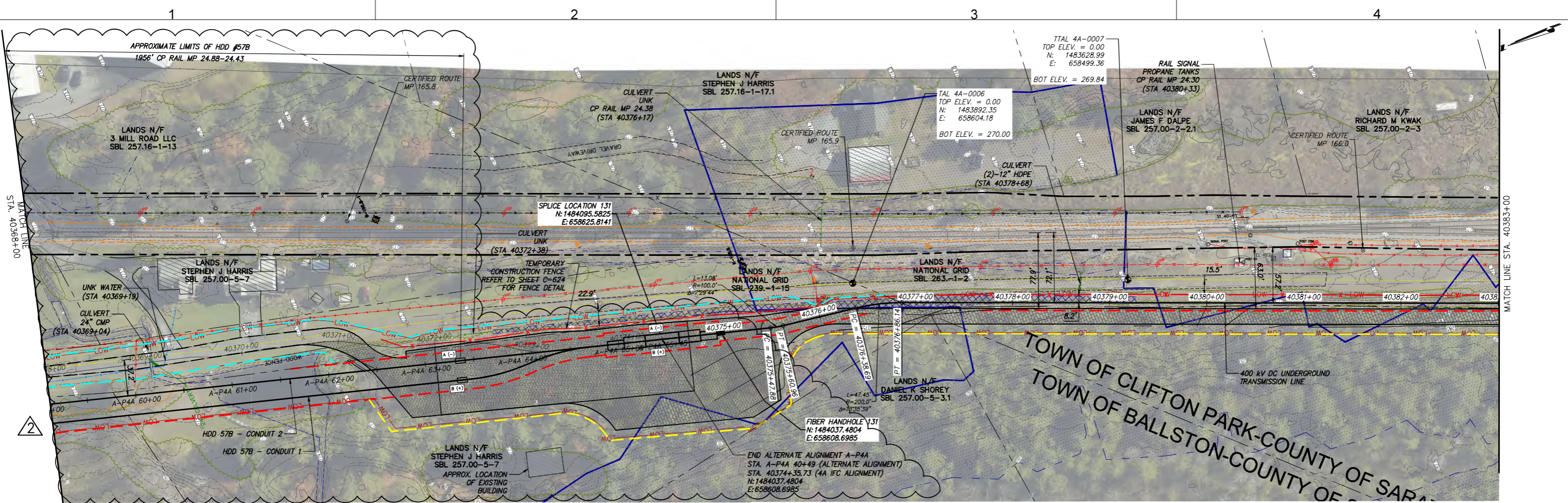
STA. 40323+00 TO STA. 40338+00 PROFILE VIEW
SCALE: H:1" = 50' V:1" = 10'

	PROJECT NO.: 21162	PROJECT NO.: 120174	ALTERED ON: 12/18/2023	AFFIXED ON: 08/03/2023	<p>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.</p>	<table border="1"> <tr> <th>No.</th> <th>DATE</th> <th>SUBMITTAL / REVISION DESCRIPTION</th> <th>DB</th> <th>APP</th> </tr> <tr> <td>1</td> <td>12/18/2023</td> <td>NDC-0042 ALIGNMENT ADJUSTMENT AT FIREMAN'S LANE</td> <td>JR</td> <td>BD</td> </tr> <tr> <td>0</td> <td>08/03/2023</td> <td>ISSUED FOR CONSTRUCTION SUBMISSION</td> <td>CS</td> <td>SB</td> </tr> </table>	No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	1	12/18/2023	NDC-0042 ALIGNMENT ADJUSTMENT AT FIREMAN'S LANE	JR	BD	0	08/03/2023	ISSUED FOR CONSTRUCTION SUBMISSION	CS	SB	<p>CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 6 (PACKAGE 4A) - CP: BALLSTON TO GLENVILLE STA. 40323+00 TO STA. 40338+00 PLAN AND PROFILE</p>	PERMIT DRAWING NO. N/A
	No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB			APP																
	1	12/18/2023	NDC-0042 ALIGNMENT ADJUSTMENT AT FIREMAN'S LANE	JR			BD																
0	08/03/2023	ISSUED FOR CONSTRUCTION SUBMISSION	CS	SB																			
				DRAWING NO. C-122																			
<p>DRAWN BY: cs DESIGNED BY: JM APPROVED BY: SB SCALE: AS NOTED DATE: 08/03/2023</p>																							

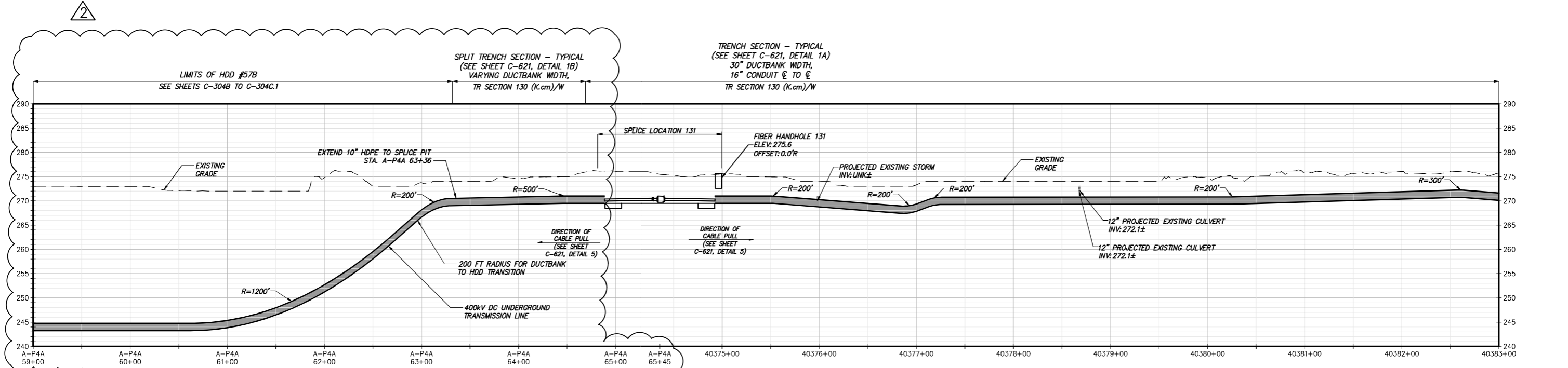
File: P:\120174-CHPE_CABLE_INSTALL-KIEWIT-CAD\20-ENGINEERING-CAD_FILES\PACKAGE_4A\NY_UTILITIES\01_KC\01_SHEET_FILES\21162_4A_C-121-125.DWG

Sowed: 12/18/2023 2:54:36 PM Plotted: 12/18/2023 3:00:14 PM Current User: Devin McKenna LastSavedBy: dmckenna

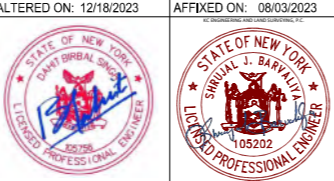
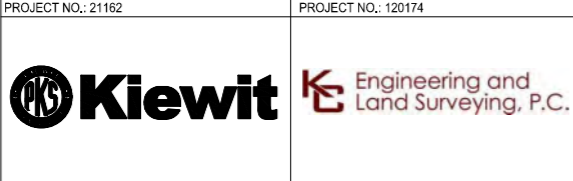
File: P:\120174-CHPE_CABLE_INSTALL-KIEWIT-CAD\20-ENGINEERING-CAD_FILES\PACKAGE_4A_NY_UTILITIES\OF_KCS\SHEET_FILES\21162_4A_C-121-125.DWG
 User: Devin McKenna
 Date: 12/18/2023 2:54:36 PM
 Plot: 12/18/2023 3:06:31 PM
 Scale: 1" = 50'



STA. 40368+00 TO STA. 40383+00 PLAN VIEW
SCALE: 1" = 50'



STA. 40368+00 TO STA. 40383+00 PROFILE VIEW
SCALE: H: 1" = 50' V: 1" = 10'



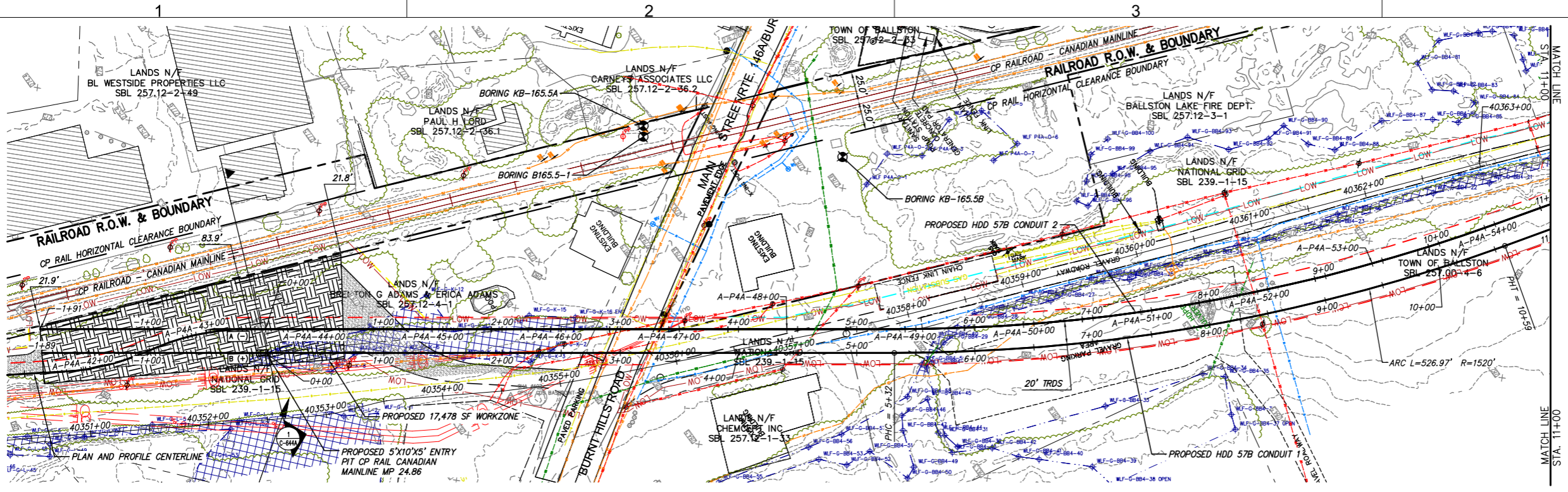
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER ANY ITEM IN ANY WAY IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE 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.

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
2	12/18/2023	NDC-0042_ALIGNMENT ADJUSTMENT FOR FIREMAN'S LANE	JR	BD
1	09/13/2023	UPDATED PER NYSDEC COMMENTS	BL	SL
0	08/03/2023	ISSUED FOR CONSTRUCTION SUBMISSION	CS	SB

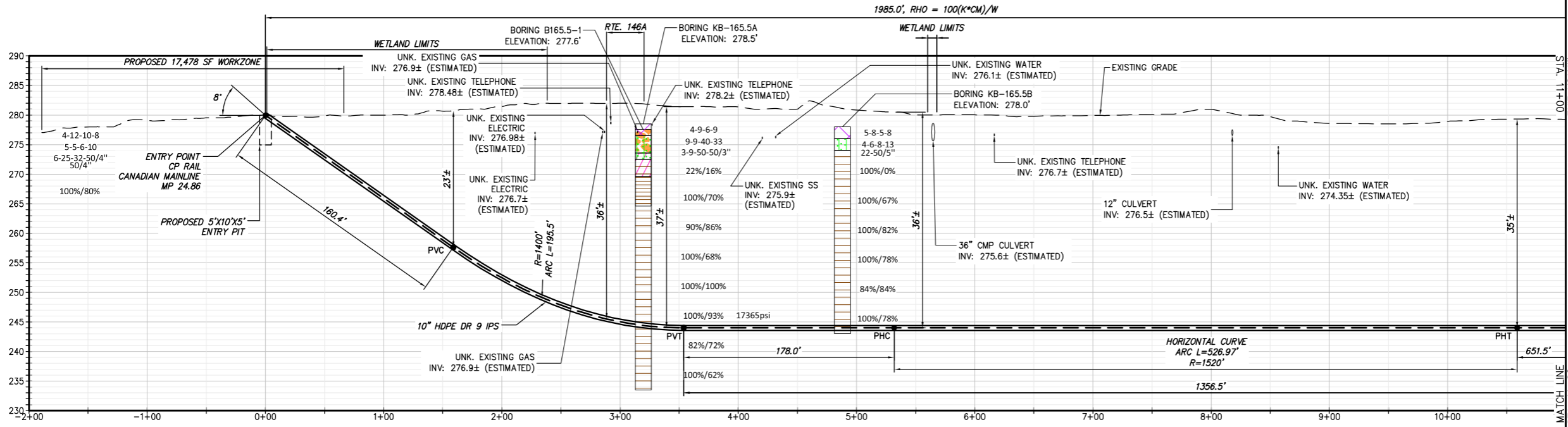
**CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 6 (PACKAGE 4A) - CP: BALLSTON TO GLENVILLE
STA. 40368+00 TO STA. 40383+00 PLAN AND PROFILE**

DRAWN BY: cs DESIGNED BY: JM APPROVED BY: SB SCALE: AS NOTED DATE: 08/03/2023

PERMIT DRAWING NO.	N/A
DRAWING NO.	C-125



PROPOSED HDD 57B PLAN VIEW
CONDUIT 1



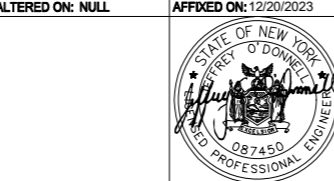
PROPOSED HDD 57B PROFILE
CONDUIT 1

Legend	
ASPHALT	Asphalt
Bedrock	Bedrock
Boulder	Boulder
CH	Fat CLAY
CH-MH	SILTY Fat CLAY
CL	Lean CLAY
CL-ML	SILTY CLAY
CONCRETE	Concrete
Fill	Fill
GC	CLAYEY GRAVEL
GC-GM	SILTY CLAYEY GRAVEL
GM	SILTY GRAVEL
GP	Poorly Graded GRAVEL
GP-GC	Poorly Graded GRAVEL with CLAY
GP-GM	Poorly Graded GRAVEL with SILT
GW	Well Graded GRAVEL
GW-GC	Well Graded GRAVEL with CLAY
GW-GM	Well Graded GRAVEL with SILT
Limestone	Limestone
MH	Elastic SILT
ML	SILT
OH	ORGANIC Fat CLAY
OL	ORGANIC Lean CLAY
OL/OH	ORGANIC SOIL
PT	PEAT
Rock	Rock
Sandstone	Sandstone
SC	CLAYEY SAND
SC-SM	SILT, CLAYEY SAND
SHALE	Shale
SILTSTONE	Siltstone
SM	SILTY SAND
SP	Poorly Graded SAND
SP-SC	Poorly Graded SAND with CLAY
SP-SM	Poorly Graded SAND with SILT
SW	Well graded SAND
SW-SC	Well Graded SAND with CLAY
SW-SM	Well Graded SAND with SILT
Topsoil	Topsoil
USGS 601	Gravel or Conglomerate 1
USGS 654	Subgraywacke
USGS 670	Interbedded Sandstone and Shale
USGS 702	Quartzite
USGS 705	Schist
USGS 705	Schist
USGS 708	Gneiss
USGS 708	Gneiss
USGS 718	Granite 1
Void	Void
Water	Water
Weathered Rock	Undefined
Water Table	Water Table during drilling
Delayed Water Table	Water Table after drilling

NOTE:
1) BORE AND BORE HATCHING IN PROFILES ARE NOT CLEARLY LEGIBLE TO THE CLOSE PROXIMITY OF THE FOLLOWING BORES KB-165.5A AND B165.5-1 AT 50 SCALE. USERS MUST CONSULT THE ACTUAL BORE LOGS AND REPORTS FOR THE CLARIFICATION AND OR INTERPRETATION.

BORING LOG STRIP LEGEND	
B101	11000psi =UCS
Blow Counts per 6" = 10-10-10	Recovery %/RQD % = 95%/90%
2D strip logs shown at 10x exaggeration 3D strip logs have no exaggeration	

File: V:\PROJECTS\LANY\61066076_00\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 4\DESIGN PACKAGE 4\DESIGN PACKAGE 4A - C-304B.C-304C.DWG. Saved: 12/20/2023 11:34:29 AM. Plotted: 12/20/2023 3:31:39 PM. Current User: Snyder, Morgan. Last Saved By: 8275



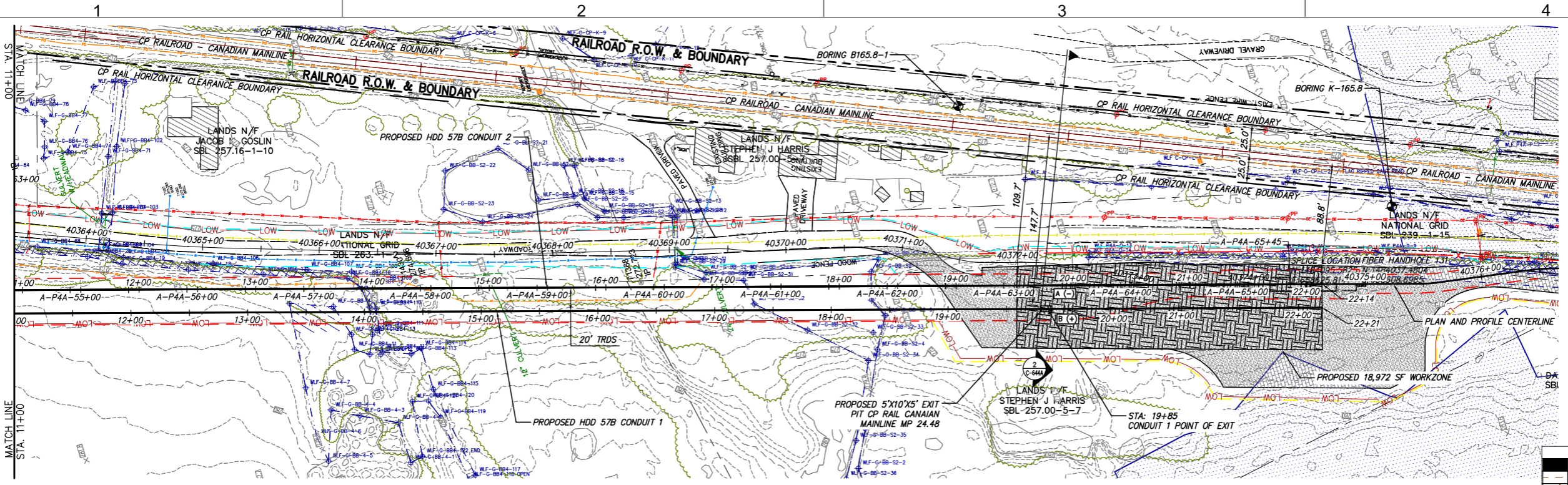
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE 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.

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	12/20/2023	ISSUED FOR CONSTRUCTION: NDC-0042	SPB	JEO

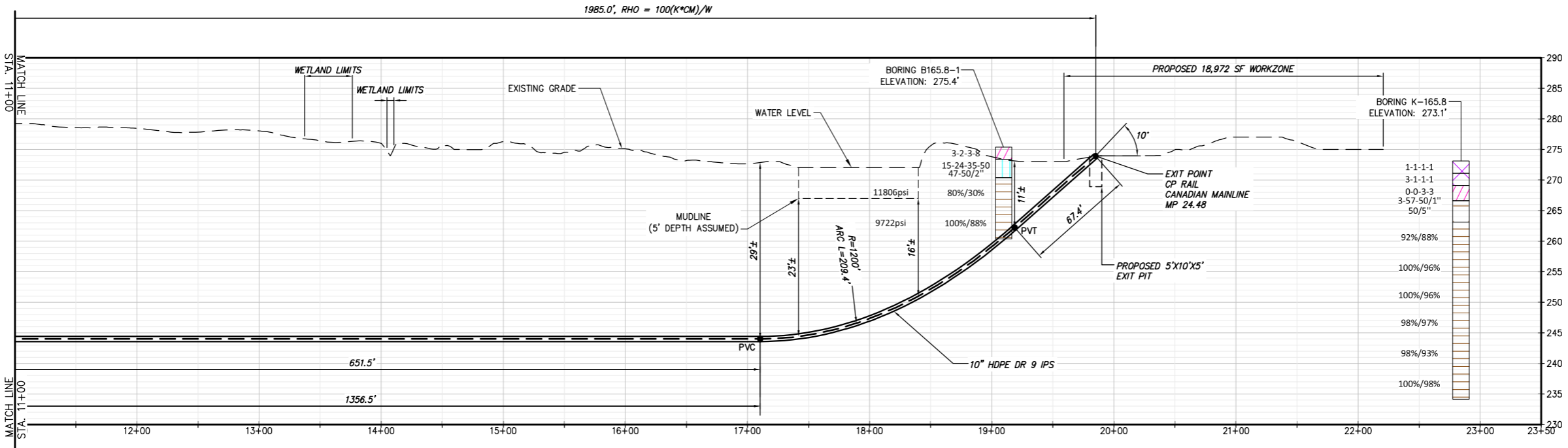
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 6 (PACKAGE 4A) - CP: BALLSTON TO GLENVILLE
PLAN AND PROFILE - HDD 57B, CONDUIT 1

PERMIT DRAWING NO. **N/A**
DRAWING NO. **C-304B**

DRAWN BY: KDL DESIGNED BY: SPB APPROVED BY: JEO SCALE: AS NOTED DATE: 08/03/2023



PROPOSED HDD 57B PLAN VIEW
CONDUIT 1

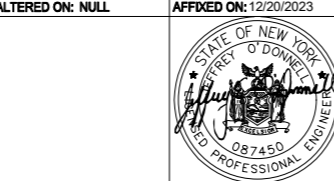


PROPOSED HDD 57B PROFILE
CONDUIT 1

Legend	
ASPHALT	Asphalt
Bedrock	Bedrock
Boulder	Boulder
CH	Fat CLAY
CH-MH	SILTY Fat CLAY
CL	Lean CLAY
CL-ML	SILTY CLAY
CONCRETE	Concrete
Fill	Fill
GC	CLAYEY GRAVEL
GC-GM	SILTY CLAYEY GRAVEL
GM	SILTY GRAVEL
GP	Poorly Graded GRAVEL
GP-GC	Poorly Graded GRAVEL with CLAY
GP-GM	Poorly Graded GRAVEL with SILT
GW	Well Graded GRAVEL
GW-GC	Well Graded GRAVEL with CLAY
GW-GM	Well Graded GRAVEL with SILT
Limestone	Limestone
MH	Elastic SILT
ML	SILT
OH	ORGANIC Fat CLAY
OL	ORGANIC Lean CLAY
OL/OH	ORGANIC SOIL
PT	PEAT
Rock	Rock
Sandstone	Sandstone
SC	CLAYEY SAND
SC-SM	SILT, CLAYEY SAND
SHALE	Shale
SILTSTONE	Siltstone
SM	SILTY SAND
SP	Poorly Graded SAND
SP-SC	Poorly Graded SAND with CLAY
SP-SM	Poorly Graded SAND with SILT
SW	Well graded SAND
SW-SC	Well Graded SAND with CLAY
SW-SM	Well Graded SAND with SILT
Topsoil	Topsoil
USGS 601	Gravel or Conglomerate 1
USGS 654	Subgravel
USGS 702	Interbedded Sandstone and Shale
USGS 705	Schist
USGS 705	Schist
USGS 708	Gneiss
USGS 708	Gneiss
USGS 718	Granite 1
Void	Void
Water	Water
Weathered Rock	Undefined
Water Table	Water Table during drilling
Delayed Water Table	Water Table after drilling

BORING LOG STRIP LEGEND	
B101	11000psi =UCS
Blow Counts per 6" = 10-10-10	
Recovery %/RQD % = 95%/90%	
2D strip logs shown at 10x exaggeration	
3D strip logs have no exaggeration	

File: V:\PROJECTS\ANY\6\066076\00\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 4\DESIGN PACKAGE 4A - C-304B.C-304C.DWG. Saved: 12/18/2023 4:13:59 PM. Plotted: 12/19/2023 11:28:23 AM. Current User: Snyder, Morgan. Last Saved By: 8275



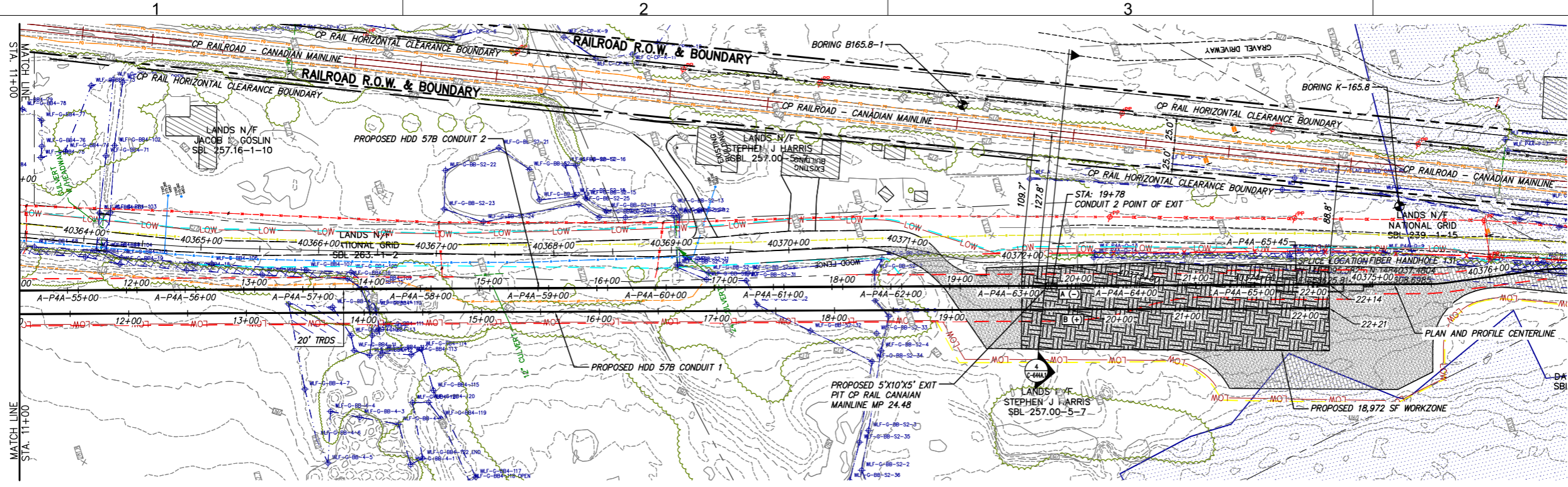
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE 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.

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	12/20/2023	ISSUED FOR CONSTRUCTION: NDC-0042	SPB	JEO

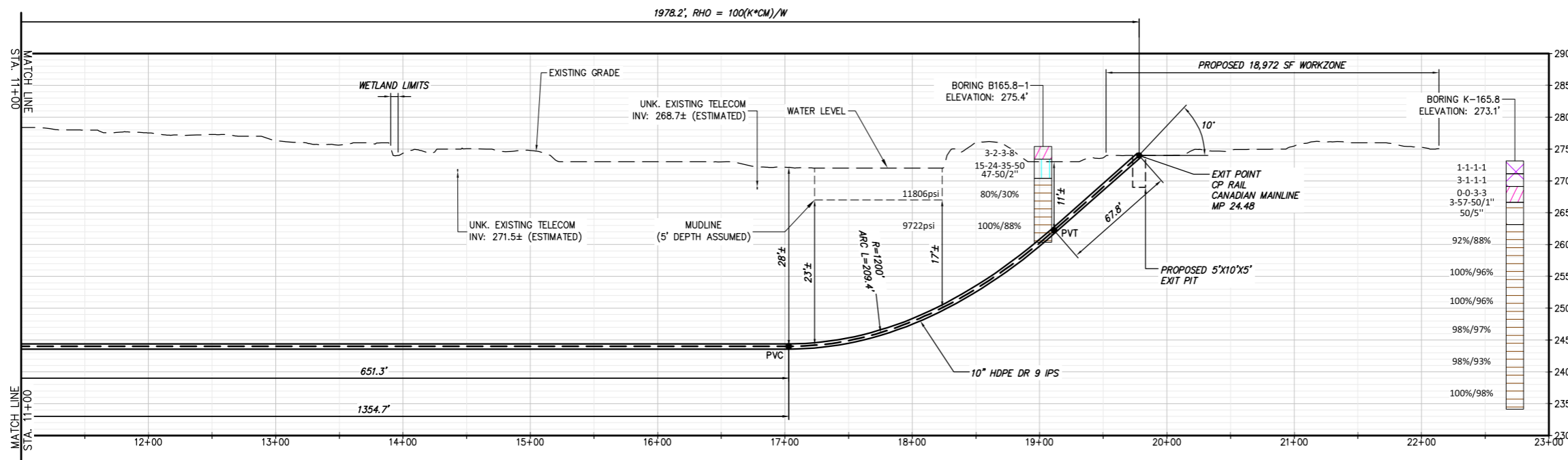
**CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 6 (PACKAGE 4A) - CP: BALLSTON TO GLENVILLE**
PLAN AND PROFILE - HDD 57B, CONDUIT 1

PERMIT DRAWING NO. **N/A**
DRAWING NO. **C-304B.1**

DRAWN BY: KDL DESIGNED BY: SPB APPROVED BY: JEO SCALE: AS NOTED DATE: 08/03/2023



PROPOSED HDD 57B PLAN VIEW
CONDUIT 2

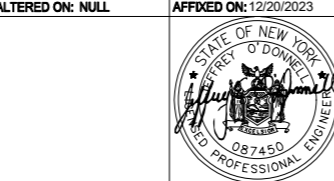


PROPOSED HDD 57B PROFILE
CONDUIT 2

Legend	
ASPHALT	Asphalt
Bedrock	Bedrock
Boulder	Boulder
CH	Fat CLAY
CH-MH	SILTY Fat CLAY
CL	Lean CLAY
CL-ML	SILTY CLAY
CONCRETE	Concrete
Fill	Fill
GC	CLAYEY GRAVEL
GC-GM	SILTY CLAYEY GRAVEL
GM	SILTY GRAVEL
GP	Poorly Graded GRAVEL
GP-GC	Poorly Graded GRAVEL with CLAY
GP-GM	Poorly Graded GRAVEL with SILT
GW	Well Graded GRAVEL
GW-GC	Well Graded GRAVEL with CLAY
GW-GM	Well Graded GRAVEL with SILT
Limestone	Limestone
MH	Elastic SILT
ML	SILT
OH	ORGANIC Fat CLAY
OL	ORGANIC Lean CLAY
OL/OH	ORGANIC SOIL
PT	PEAT
Rock	Rock
Sandstone	Sandstone
SC	CLAYEY SAND
SC-SM	SILT, CLAYEY SAND
SHALE	Shale
SILTSTONE	Siltstone
SM	SILTY SAND
SP	Poorly Graded SAND
SP-SC	Poorly Graded SAND with CLAY
SP-SM	Poorly Graded SAND with SILT
SW	Well graded SAND
SW-SC	Well Graded SAND with CLAY
SW-SM	Well Graded SAND with SILT
Topsoil	Topsoil
USGS 601	Gravel or Conglomerate 1
USGS 654	Subgraywacke
USGS 670	Interbedded Sandstone and Shale
USGS 702	Quartzite
USGS 705	Schist
USGS 705	Schist
USGS 708	Gneiss
USGS 708	Gneiss
USGS 718	Granite 1
Void	Void
Water	Water
Weathered Rock	Undefined
Water Table	Water Table during drilling
Delayed Water Table	Water Table after drilling

BORING LOG STRIP LEGEND	
B101	11000psi =UCS
Blow Counts per 6" = 10-10-10	
Recovery %/RQD % = 95%/90%	
2D strip logs shown at 10x exaggeration	
3D strip logs have no exaggeration	

File: V:\PROJECTS\LANY\61066076_00\09_DESIGN DRAWINGS\01_SHEETS\DESIGN PACKAGE 4\DESIGN PACKAGE 4A - C-304C.C-304C.DWG. Sowed: 12/19/2023 11:30:33 AM. Current User: Snyder, Morgan. Last Saved By: 6275



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.

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	12/20/2023	ISSUED FOR CONSTRUCTION: NDC-0042	SPB	JEO

**CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 6 (PACKAGE 4A) - CP: BALLSTON TO GLENVILLE
PLAN AND PROFILE - HDD 57B, CONDUIT 2**

DRAWN BY: KDL DESIGNED BY: SPB APPROVED BY: JEO SCALE: AS NOTED DATE: 08/03/2023

PERMIT DRAWING NO. N/A
DRAWING NO. C-304C.1