

NYSDOTChamplain Hudson Power Express ("CHPE") Environmental Management & Construction Plan Notice of Major Change

Project: <u>Champlain Hudson Power Express</u> Segment: <u>8</u> Notice Number: <u>141</u> PSC Case: <u>10-T-0139</u> USACE Permit Number: <u>NAN-2009-01089-M12</u> Location (Milepost, Town/County): <u>Certified Route MP 177.9 to 178.5, Town of Rotterdam, Schenectady County, New</u> York Drawing References: <u>Segment 8 (Package 5A) Appendix C: Sheets G-001, C-105, C-106, C-107, C-213, C-213.1, C-307, C-307.1, C-308, C-308.1, C-403, C-404</u> Other Documents/References: <u>N/A</u> Component(s) Impacted by Change: <u>Segment 8 (Package 5A) Appendix C: Sheets G-001, C-105, C-106, C-107, C-213, C-213, C-213.1, C-307, C-213.1, C-307, C-307.1, C-308, C-308.1, C-403, C-404, Appendix E, Appendix J</u>

Description of Change:

This change notice is to incorporate revisions to the Appendix C Plan and Profile Drawings of the approved Segment 8 (Package 5A) EM&CP based on comments received and agreement from the Golub Corporation. Within this change (IFC STA 50062+50 to STA 50092+40), HDD 73 was extended to the south within the Golub Corporation Property (TM# 58.00-2-12.111). This change includes an increase in size of the northern HDD 73 work area to accommodate the longer bores associated with the HDD extension. This change includes the addition of an alternate access point near STA 50092+00.

This change results in an overall decrease in clearing by approximately 0.39 acres. This change results in a revision to the permanent and temporary easements on Lands N/F of 3324 Thompson LLC TM# 48.17-7-3, Lands N/F of Parkview at Ticonderoga, LLC TM# 48.17-7-10.11, and Lands N/F of Golub Corporation TM# 58.00-2-12.111. No new landowners are impacted by this change. This change does not include increased impacts to wetlands and/or streams. Please refer to attached NDC-0049 Reviewer Supplement Form for specific design plan revisions.

This change also results in an overall decrease in project impacts at this location by reducing the potential for future conflicts with transportation infrastructure at the Duanesburg Road Bridge Crossing. However, no new impacts to State highways result from this change. On February 6, 2024, NYSDOT provided acceptance of these alignment revisions via email; please see attached email.

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. This change involves shifting a small portion of the alignment outside of the deviation zone (approximately 1,799 feet in length [454 feet trenching and 1,345 feet HDD], extending to a maximum distance outside the deviation zone of 54.76 feet), and is submitted as a change to the approved EM&CP and Facility route under Certificate Condition 158.



The Deviation Zone Excursion Table 1 of EM&CP "Appendix E Justification for Deviation Zone Excursions in Segment 8" is revised below:

Excursion	Parcel ID	Location (Approximate – see Drawings for Details)							
		Sheet	Mile Point	Station Start	Station End		Reviewed		
S8-2A	58.00-2- 12.111	C-105 to C- 106	178.0 to 178.4	50069+00	50086+54.65	Conflicts with landowner assets and operations	Cultural Resources; ESA 9; Wetlands; Terrestrial Ecology		

Excursion S8-2A

1. Description of the Excursion

Excursion S8-2A is located within the Town of Rotterdam beginning about 130' S of Duanesburg Road Bridge Crossing of CSX tracks (approximately STA 50069 to 50086 on Sheet C-105 and C-106 of the Plan and Profile Drawings [Appendix C of the EM&CP]).

2. Justification

The Golub Corporation required revisions to alignment and HDD design along their property as to not impact ongoing operations of critical facilities. Given the constraints at or near the CSX tracks in conjunction with the NYSDOT clearance requirements at the Duanesburg Road Bridge, this ADZ Excursion is the minimum necessary to feasibly achieve installation.

3. Environmental Impact

The anticipated ADZ exceedance constitutes a major change as it is 55 feet perpendicular to the ADZ at its furthest point; environmental impacts will be reduced as noted above, and the overall character of the Facility will not be changed. A detailed impact review and summary of environmental considerations are provided below. 1,345' HDD and 454' trench.

Recreation: None present within the vicinity of the excursion based on desktop aerial imagery and field confirmation.

Agricultural Resources: None present within the vicinity of the excursion based on desktop aerial imagery and field confirmation.

Cultural Resources: There are no historic sites or archaeological resources identified in the vicinity of this change. Therefore, no impacts to cultural resources are anticipated.

Threatened and Endangered Species: The change does not involve increased impacts to threatened and endangered species.

Wetlands and Streams: There are no delineated wetlands or waterbodies within the vicinity of this excursion.



4. New Landowners Affected

There are no new landowners affected by this change.

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.	 (i)This change does not involve a site listed in the NYS or National Register of Historic Places. (ii)This change does not result in an increased impact to any federal or State-regulated wetland or waterbody and is not located in the Adirondack Park. (iii)This change does not affect an occupied habitat of a TE species. (iv) This change does not affect individual species or habitat supporting RTE plants. (v)The change does not involve Agricultural Land. (vi)There are no changes in herbicide use as result of the requested revision. (vii) The change is not on land owned or occupied by New York City.
158(b)	The Certificate Holders shall report any proposed changes to the EM&CP to DPS Staff. DPS Staff will refer to the 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.	See description above.
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	N/A



	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.	
	The Certificate Holders shall not execute any proposed	CHPE anticipates receiving oral or written approval from
	change until they receive written approval from the	DPS staff.
	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	
158(d)	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]

List of References and Attachments:

- NDC-0049 Reviewer Supplement Form
- Segment 8 (Package 5A) Appendix C Revised and New Sheets
- Segment 8 (Package 5A) EM&CP Appendix E Added Sheets NDC-0049
- Segment 8 (Package 5A) EM&CP Appendix J Memo NDC-0049

NYSDOT R1 Acceptance Email



Signoff by: <u>CHPE</u>	Overland Team	Date:	
<u>Approvals</u> Position	Name	Signature	Date
Segment Engineer:	Beau Nolan	Electronically signed by Beau Nolan Date: 05/15/2024 7:39:27 AM	5 <u>/15/202</u> 4
Segment Manager:	Zackary Mayes	Electronically signed by zackary.mayes Date: 05/15/2024 11:50:01 AM	5/15/2024
CHPE, LLC Approval:	Paul Weske	Joel Vac	0 <u>6/05/20</u> 24
Transmitted to DPS I	by:		
DPS Approval By:			
Transmitted to ACOI	E by:		



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

NDC-0049 Reviewer Supplement Form

Summary of Plan Revisions:

Sheet No.	Rev No.	Revision Description	Summary
G-001	2	NDC-0049: HDD 73 Extension on Golub Property	Added sheets C213.1, C-307.1, and C-308.1, revised sheet names for C-307 through C- 308.1
C-105	1	NDC-0049: HDD 73 Extension on Golub Property	HDD 73 realigned for extension on Golub Corporation Property and to increase clearance from Duanesburg Road Bridge abutment. HDD 73 Work area revised (enlarged) to accommodate extension of HDD. HDD pits were relocated and offset to maintain required spacing. HDD profile added to sheet. The approximate Duanesburg Road Bridge Abutments were added in plan view along with clearance callouts consistent with NYSDOT coordination. Callouts were added for clearance to Golub Corporation Water Tank and utilities in profile.
C-106	1	NDC-0049: HDD 73 Extension on Golub Property	HDD 73 realigned for extension on Golub Corporation Property. HDD work area relocated from C-105 to C-106 based on coordination with Golub Corporation and CHPE LLC. Trench was realigned from new HDD pit locations up to Splice Location 157. Existing UE Ductbank on Golub Corporation Property added to plan view with required 10' min. clearance. Access revised accordingly.
C-107	2	NDC-0049: HDD 73 Extension on Golub Property	Secondary access point added from Golub Corporation Property per coordination with Golub Corporation and CHPE LLC.
C-213	1	NDC-0049: HDD 73 Extension on Golub Property	Secondary access point added from Golub Corporation Property per coordination with Golub Corporation and CHPE LLC. Access revised accordingly for connection and security.
C-213.1	0	NDC-0049: HDD 73 Extension on Golub Property	New Sheet: Secondary access point added from Golub Corporation Property per coordination with Golub Corporation and CHPE LLC. Access revised accordingly for connection and security.
C-307	1	NDC-0049: HDD 73 Extension on Golub Property	HDD 73 realigned for extension on Golub Corporation Property and to increase clearance from Duanesburg Road Bridge abutment. HDD 73 Work area revised (enlarged) to accommodate extension of

			HDD. HDD pits were relocated and offset to maintain required spacing. HDD profile added to sheet. The approximate Duanesburg Road Bridge Abutments were added in plan view along with clearance callouts consistent with NYSDOT coordination. Callouts were added for clearance to Golub Corporation Water Tank and utilities in profile. Added all "Design and Construction" and "General Notes".
C-307.1	0	NDC-0049: HDD 73 Extension on Golub Property	New Sheet: HDD 73 realigned for extension on Golub Corporation Property. HDD work area relocated from C-307 to C-307.1 as a result of HDD 73 extension and based on coordination with Golub Corporation and CHPE LLC.
C-308	1	NDC-0049: HDD 73 Extension on Golub Property	HDD 73 realigned for extension on Golub Corporation Property and to increase clearance from Duanesburg Road Bridge abutment. HDD 73 Work area revised (enlarged) to accommodate extension of HDD. HDD pits were relocated and offset to maintain required spacing. HDD profile added to sheet. The approximate Duanesburg Road Bridge Abutments were added in plan view along with clearance callouts consistent with NYSDOT coordination. Callouts were added for clearance to Golub Corporation Water Tank and utilities in profile. Added all "Design and Construction" and "General Notes".
C-308.1	0	NDC-0049: HDD 73 Extension on Golub Property	New Sheet: HDD 73 realigned for extension on Golub Corporation Property. HDD work area relocated from C-308 to C-308.1 as a result of HDD 73 extension and based on coordination with Golub Corporation and CHPE LLC.
C-403	1	NDC-0049: HDD 73 Extension on Golub Property	HDD 73 realigned for extension on Golub Corporation Property and to increase clearance from Duanesburg Road Bridge abutment. HDD 73 Work area revised (enlarged) to accommodate extension of HDD. HDD pits were relocated and offset to maintain required spacing.
C-404	2	NDC-0049: HDD 73 Extension on Golub Property	Secondary access point added from Golub Corporation Property per coordination with Golub Corporation and CHPE LLC.

Summary of Affected Easements:

- 1. Lands N/F of 3324 Thompson LLC TM# 48.17-7-3
- 2. Lands N/F of Parkview at Ticonderoga, LLC TM# 48.17-7-10.11
- 3. Lands N/F of Golub Corporation TM# 58.00-2-12.111



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

Segment 8 (Package 5A) Appendix C Revised and New Sheets – NDC-0049

			F	
ND J UNIC	SHEET LIST TABLE		0.0 111110	SHEET LIST TABLE
RAWING	SHEET NAME		DRAWING NUMBER	SHEET NAME
	GENERAL SHEETS		C-149	STA. 50720+00.00 TO STA. 50735+00.00 PLAN AND PROFILE
-000	COVER SHEET		C-150	STA. 50735+00.00 TO STA. 50750+00.00 PLAN AND PROFILE
-001	SHEET INDEX	2	C-151	STA. 50750+00.00 TO STA. 50765+00.00 PLAN AND PROFILE
-002	GENERAL NOTES 1 OF 2		C-152	STA, 50765+00.00 TO STA, 50780+00.00 PLAN AND PROFILE
-003	GENERAL NOTES 2 OF 2		C-153	STA. 50780+00.00 TO STA. 50795+00.00 PLAN AND PROFILE
-004	CSX GENERAL NOTES		C-154	STA. 50795+00.00 TO STA. 50810+00.00 PLAN AND PROFILE
-005	LEGEND AND ABBREVIATIONS		C-155	STA. 50810+00.00 TO STA. 50825+00.00 PLAN AND PROFILE
-006	PLAN AND PROFILE KEY MAP	ž.	C-156	STA. 50825+00.00 TO STA. 50840+00.00 PLAN AND PROFILE
-007	SPLICE, LINK BOX, AND FIBER OPTIC HANDHOLE LOCATION TABLE	S	C-157	STA. 50840+00.00 TO STA. 50855+00.00 PLAN AND PROFILE
G-008	SUMMARY OF DUCTBANK LIMITS WITHIN CSX ROW	^	C-158	STA. 50855+00.00 TO STA. 50870+00.00 PLAN AND PROFILE
G-010	EM&CP TABLES 1 OF 7	<u></u> 1\	C-159	STA. 50870+00.00 TO STA. 50885+00.00 PLAN AND PROFILE
G-010	EM&CP TABLES 2 OF 7	1	C-160	STA. 50885+00.00 TO STA. 50900+67.34 PLAN AND PROFILE
-012	EM&CP TABLES 3 OF 7			F-SITE ACCESS ROAD AND ROUTE PLANS
-013	EM&CP TABLES 4 OF 7		C-201	TEMP OFF-SITE ACCESS ROADS (5A-01-RD)
G-014	EM&CP TABLES 5 OF 7		n in the second s	TEMP OFF-SITE ACCESS ROADS (5A-03-RD & 5A-04-RD)
G-015	EM&CP TABLES 6 OF 7		C-202	
G-015	EM&CP TABLES 7 OF 7	5	C-203	TEMP OFF-SITE ACCESS ROADS (5A-05-RD)
G-020	RESTORATION NOTES		C-204	TEMP OFF-SITE ACCESS ROADS (5A-05-RD)
	PLAN AND PROFILE SHEETS		C-205	TEMP OFF-SITE ACCESS ROADS (5A-05-RD)
-101	STA. 50000+00.00 TO STA. 50015+00.00 PLAN AND PROFILE		C-206	TEMP OFF-SITE ACCESS ROADS (5A-06-RD)
		i	C-207	TEMP OFF-SITE ACCESS ROADS (5A-08-RD & 5A-09-RD)
-102	STA. 50015+00.00 TO STA. 50030+00.00 PLAN AND PROFILE	2	C-208	TEMP OFF-SITE ACCESS ROADS (5A-10-RD & 5A-11-RD)
-103	STA. 50030+00.00 TO STA. 50045+00.00 PLAN AND PROFILE		C-209	TEMP OFF-SITE ACCESS ROADS (5A-12-RD)
-104	STA. 50045+00.00 TO STA. 50060+00.00 PLAN AND PROFILE		C-210	TEMP OFF-SITE ACCESS ROADS (5A-13-RD & 5A-14-RD)
-105	STA. 50060+00.00 TO STA. 50075+00.00 PLAN AND PROFILE	2	C-210	TEMP OFF-SITE ACCESS ROADS (5A-15-RD)
0-106	STA. 50075+00.00 TO STA. 50090+00.00 PLAN AND PROFILE			
2-107	STA. 50090+00.00 TO STA. 50105+00.00 PLAN AND PROFILE		C-212	TEMP OFF-SITE ACCESS ROUTES (5A-01-RTE & 5A-02-RTE)
-108	STA. 50105+00.00 TO STA. 50120+00.00 PLAN AND PROFILE		C=213~~~~	TEMP OFF-SUTE AGEESS ROWTES (5A-03-87E)
-109	STA. 50120+00.00 TO STA. 50135+00.00 PLAN AND PROFILE		C-213.1	TEMP OFF-SITE ACCESS ROUTES (5A-03-RTE-01)
2-110	STA. 50135+00.00 TO STA. 50150+00.00 PLAN AND PROFILE	5	C-214	TEMP OFF-SITE ACCESS ROUTES (5A-04-RTE)
2-111	STA. 50150+00.00 TO STA. 50165+00.00 PLAN AND PROFILE		C-215	TEMP OFF-SITE ACCESS ROUTES (5A-06-RTE)
2-112	STA. 50165+00.00 TO STA. 50180+00.00 PLAN AND PROFILE		C-216	TEMP OFF-SITE ACCESS ROUTES (5A-07-RTE)
2-113	STA. 50180+00.00 TO STA. 50195+00.00 PLAN AND PROFILE		C-217	TEMP OFF-SITE ACCESS ROUTES (5A-08-RTE)
C-114	STA. 50195+00.00 TO STA. 50210+00.00 PLAN AND PROFILE		C-218	TEMP OFF-SITE ACCESS ROUTES (5A-08-RTE)
2-115	STA. 50210+00.00 TO STA. 50225+00.00 PLAN AND PROFILE		C-219	TEMP OFF-SITE ACCESS ROUTES (5A-08-RTE)
2-116	STA. 50225+00.00 TO STA. 50240+00.00 PLAN AND PROFILE		C-220	TEMP OFF-SITE ACCESS ROUTES (5A-09-RTE)
C-117	STA. 50240+00.00 TO STA. 50255+00.00 PLAN AND PROFILE			
C-118	STA. 50255+00.00 TO STA. 50270+00.00 PLAN AND PROFILE		C-221	TEMP OFF-SITE ACCESS ROUTES (5A-09A-RTE)
C-119	STA. 50270+00.00 TO STA. 50285+00.00 PLAN AND PROFILE		C-222	TEMP OFF-SITE ACCESS ROUTES (5A-10-RTE)
C-120	STA. 50285+00.00 TO STA. 50300+00.00 PLAN AND PROFILE	10 10	C-223	TEMP OFF-SITE ACCESS ROUTES (5A-11-RTE)
C-121	STA. 50300+00.00 TO STA. 50315+00.00 PLAN AND PROFILE		C-224	TEMP OFF-SITE ACCESS ROUTES (5A-12-RTE)
C-122	STA. 50315+00.00 TO STA. 50330+00.00 PLAN AND PROFILE		C-225	TEMP OFF-SITE ACCESS ROUTES (5A-13-RTE)
-123	STA. 50330+00.00 TO STA. 50345+00.00 PLAN AND PROFILE		PACKAGE 5A: H	DD TRENCHLESS PLANS
-124	STA. 50345+00.00 TO STA. 50360+00.00 PLAN AND PROFILE		C-301	PROPOSED PLAN AND PROFILE - HDD 71 - CONDUIT 1
-125	STA. 50360+00.00 TO STA. 50375+00.00 PLAN AND PROFILE	8	C-302	PROPOSED PLAN AND PROFILE - HDD 71 - CONDUIT 1
-126	STA. 50375+00.00 TO STA. 50390+00.00 PLAN AND PROFILE		C-303	PROPOSED PLAN AND PROFILE - HDD 71 - CONDUIT 1
2-127	STA. 50390+00.00 TO STA. 50405+00.00 PLAN AND PROFILE		C-304	PROPOSED PLAN AND PROFILE - HDD 71 - CONDUIT 1
-128	STA. 50405+00.00 TO STA. 50420+00.00 PLAN AND PROFILE		C-305	PROPOSED PLAN AND PROFILE - HDD 72 - CONDUIT 1
-129	STA. 50420+00.00 TO STA. 50435+00.00 PLAN AND PROFILE		6-306	
-130	STA. 50435+00.00 TO STA. 50450+00.00 PLAN AND PROFILE	(C-307	PROPOSED PLAN AND PROFILE - HDD 73 - CONDUIT 1 - PAGE 1 OF
-131	STA. 50450+00.00 TO STA. 50465+00.00 PLAN AND PROFILE		C-307.1	PROPOSED PLAN AND PROFILE - HDD 73 - CONDUIT 1 - PAGE 1 OF PROPOSED PLAN AND PROFILE - HDD 73 - CONDUIT 1 - PAGE 2 OF
-132	STA. 50465+00.00 TO STA. 50480+00.00 PLAN AND PROFILE		C-308	PROPOSED PLAN AND PROFILE - HDD 73 - CONDUIT 2 - PAGE 2 OF
-133	STA. 50480+00.00 TO STA. 50495+00.00 PLAN AND PROFILE		C-308.1	PROPOSED PLAN AND PROFILE - HDD 73 - CONDUIT 2 - PAGE 1 OF PROPOSED PLAN AND PROFILE - HDD 73 - CONDUIT 2 - PAGE 2 OF
2-133 2-134	STA. 50495+00.00 TO STA. 50510+00.00 PLAN AND PROFILE		C-309	PROPOSED PLAN AND PROFILE - HDD 73 - CONDULT 2 - PAGE 2 OF PROPOSED PLAN AND PROFILE HDD 73A, 74 - CONDULT 1
2-134	STA. 50510+00.00 TO STA. 50525+00.00 PLAN AND PROFILE		C-310	PROPOSED PLAN AND PROFILE HDD 73A, 74 - CONDUIT 1
-136	STA. 50525+00.00 TO STA. 50540+00.00 PLAN AND PROFILE		C-311	PROPOSED PLAN AND PROFILE HDD 73A, 74 - CONDUIT 1 PROPOSED PLAN AND PROFILE HDD 73A, 74 - CONDUIT 2
-137	STA. 50540+00.00 TO STA. 50555+00.00 PLAN AND PROFILE	i	C-312	PROPOSED PLAN AND PROFILE HDD 73A, 74 - CONDUIT 2 PROPOSED PLAN AND PROFILE HDD 73A, 74 - CONDUIT 2
-138	STA. 50555+00.00 TO STA. 50550+00.00 PLAN AND PROFILE		C-313	
-138				PROPOSED PLAN AND PROFILE - HDD 75 - CONDUIT 1
	STA. 50570+00.00 TO STA. 50585+00.00 PLAN AND PROFILE		C-314	PROPOSED PLAN AND PROFILE - HDD 75 - CONDUIT 2
-140	STA. 50585+00.00 TO STA. 50600+00.00 PLAN AND PROFILE		C-315	PROPOSED PLAN AND PROFILE HDD 75.A.A - CONDUIT 1
-141	STA. 50600+00.00 TO STA. 50615+00.00 PLAN AND PROFILE		C-316	PROPOSED PLAN AND PROFILE HDD 75.A.A - CONDUIT 2
2-142	STA. 50615+00.00 TO STA. 50630+00.00 PLAN AND PROFILE		C-317	PROPOSED PLAN AND PROFILE HDD 75.A - CONDUIT 1
2-143	STA. 50630+00.00 TO STA. 50645+00.00 PLAN AND PROFILE		C-318	PROPOSED PLAN AND PROFILE HDD 75.A - CONDUIT 1
2-144	STA. 50645+00.00 TO STA. 50660+00.00 PLAN AND PROFILE		C-319	PROPOSED PLAN AND PROFILE HDD 75.A - CONDUIT 2
-145	STA. 50660+00.00 TO STA. 50675+00.00 PLAN AND PROFILE		C-320	PROPOSED PLAN AND PROFILE HDD 75.A - CONDUIT 2
-146	STA. 50675+00.00 TO STA. 50690+00.00 PLAN AND PROFILE		C-321	PROPOSED PLAN AND PROFILE HDD 75.B - CONDUIT 1
-147	STA. 50690+00.00 TO STA. 50705+00.00 PLAN AND PROFILE		C-322	PROPOSED PLAN AND PROFILE HDD 75.B - CONDUIT 2
		-		
C-148	STA. 50705+00.00 TO STA. 50720+00.00 PLAN AND PROFILE		C-323	PROPOSED PLAN AND PROFILE HDD 76, 76A - CONDUIT 1







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.

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		SHEET LIST TABLE
	DRAWING	
	NUMBER	SHEET NAME
	C-324	PROPOSED PLAN AND PROFILE HDD 76, 76A - CONDUIT 1
2	C-325	PROPOSED PLAN AND PROFILE HDD 76, 76A - CONDUIT 2
9	C-326	PROPOSED PLAN AND PROFILE HDD 76, 76A - CONDUIT 2
5	C-327	PROPOSED PLAN AND PROFILE HDD 77, CONDUIT 1
3	C-328	PROPOSED PLAN AND PROFILE HDD 77, CONDUIT 1
3		
g	C-329	PROPOSED PLAN AND PROFILE HDD 77, CONDUIT 1
9	C-330	PROPOSED PLAN AND PROFILE HDD 77, CONDUIT 2
3	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
8	C-335	PROPOSED PLAN AND PROFILE HDD 79B, CONDUIT 1
2	C-336	PROPOSED PLAN AND PROFILE HDD 79B, CONDUIT 2
1	C-337	PROPOSED PLAN AND PROFILE HDD 80, CONDUIT 1
3	C-338	PROPOSED PLAN AND PROFILE HDD 80, CONDUIT 1
ŝ		
2	C-339	PROPOSED PLAN AND PROFILE HDD 80, CONDUIT 1
8	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
3	C-345	PROPOSED PLAN AND PROFILE HDD 81, CONDUIT 1
2	C-346	PROPOSED PLAN AND PROFILE HDD 81, CONDUIT 2
3	C-347	PROPOSED PLAN AND PROFILE HDD 82,83 CONDUIT 1
9	C-348	
1		PROPOSED PLAN AND PROFILE HDD 82,83 CONDUIT 1
3	C-349	PROPOSED PLAN AND PROFILE HDD 82,83 CONDUIT 2
	C-350	PROPOSED PLAN AND PROFILE HDD 82,83 CONDUIT 2
2	C-351	PROPOSED PLAN AND PROFILE HDD 83A, CONDUIT 1
	C-352	PROPOSED PLAN AND PROFILE HDD 83A, CONDUIT 2
	C-353	PROPOSED PLAN AND PROFILE HDD 84, CONDUIT 1
3	C-354	PROPOSED PLAN AND PROFILE HDD 84, CONDUIT 2
3	C-355	PROPOSED PLAN AND PROFILE HDD 84A, CONDUIT 1
9	C-356	PROPOSED PLAN AND PROFILE HDD 84A, CONDUIT 1
2	C-357	PROPOSED PLAN AND PROFILE HDD 84B, CONDUIT 1
2		
e	C-358	PROPOSED PLAN AND PROFILE HDD 84B, CONDUIT 1
3	C-359	PROPOSED PLAN AND PROFILE HDD 85, CONDUIT 1
5	C-360	PROPOSED PLAN AND PROFILE HDD 85, CONDUIT 1
	C-361	PROPOSED PLAN AND PROFILE HDD 85, CONDUIT 2
3	C-362	PROPOSED PLAN AND PROFILE HDD 85, CONDUIT 2
1	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
à	C-366	PROPOSED PLAN AND PROFILE HDD 87A.A CONDUIT 2
8	n	OSION AND SEDIMENT CONTROL PLANS
3		
3	C-400	E&CS KEY PLAN
3	C-401	STA 50000+00 TO STA 50030+00
	C-402	STA 50030+00 TO STA 50060+00
	C-403	STA 50060+00 TO STA 50090+00
	C-404	STA 50090+00 TO STA 50120+00
	C-405	STA 50120+00 TO STA 50150+00
	C-406	STA 50150+00 TO STA 50180+00
<u>/2</u>	C-407	STA 50180+00 TO STA 50210+00
	C-408	STA 50210+00 TO STA 50240+00
9		
3	C-409	STA 50240+00 TO STA 50270+00
1	C-410	STA 50270+00 TO STA 50300+00
2	C-411	STA 50300+00 TO STA 50330+00
	C-412	STA 50330+00 TO STA 50360+00
9	C-413	STA 50360+00 TO STA 50390+00
	C-414	STA 50390+00 TO STA 50420+00
	C-415	STA 50420+00 TO STA 50450+00
3	C-416	STA 50450+00 TO STA 50480+00
)		
2	C-417	STA 50480+00 TO STA 50510+00
2	C-418	STA 50510+00 TO STA 50540+00
	C-419	STA 50540+00 TO STA 50570+00
	C-420	STA 50570+00 TO STA 50600+00
1	C-421	STA 50600+00 TO STA 50630+00
	C-422	STA 50630+00 TO STA 50660+00

-				-	
0	05/00/0004				
2	05/08/2024	NDC-0049: HDD 73 EXTENSION ON GOLUB PROPERTY		BD	
1	11/09/2023	NDC-0006, NDC-0015: HDD 78 LOW, CSX DEPTH	DM	BD	
0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION	BV	TK	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DR

	4
	SHEET LIST TABLE
DRAWING NUMBER	SHEET NAME
C-423	STA 50660+00 TO STA 50690+00
C-424	STA 50690+00 TO STA 50720+00
C-425	STA 50720+00 TO STA 50750+00
C-426	STA 50750+00 TO STA 50780+00
C-427	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:	MAINTENANCE 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 DETAILS, ACCESS ROAD MPT
C-507A	WORK ZONE TRAFFIC CONTROL PRINCETOWN ROAD DETOUR
C-507B	WORK ZONE TRAFFIC CONTROL PRINCETOWN ROAD DETOUR
0 500	WORK TONE TRAFFIC CONTROL COUNTY LINE DOAD DETOUR

A

C-507B C-508

C-509

C-510

C-511

C-512

C-601

C-602 C-603

C-604

C-605

C-611

C-612

C-613

C-614

C-621

C-625

C-626

C-627

C-631

S-705

S-711

S-771

S-775

S-776

S-777

S-778

S-779

S-780

S-781

S-782

S-783

S-784

S-785

S-786

C-801

C-807

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C-853

C-854

C-855

C-856

WORK ZONE TRAFFIC CONTROL COUNTY LINE ROAD DETOUR WORK ZONE TRAFFIC CONTROL STONE ROAD DETOUR 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: DETAILS 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 2 OF 2 SECURITY GATE DETAIL SURFACE RESTORATION DETAILS PACKAGE 5A: DETAILS-STRUCTURAL STRUCTURAL GENERAL NOTES AND ABBREVIATIONS FRP LINK BOX HANDHOLES FRP COMMUNICATION HANDHOLES BRIDGE NO.8 - UTILITY TRUSS BRIDGE - PLAN AND ELEVATION 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 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 BRIDGE NO.8 - UTILITY TRUSS BRIDGE - TYPICAL WELD AND FENCE DETAILS BRIDGE NO.8 - UTILITY TRUSS BRIDGE - TYPICAL BEARING AT PIERS BRIDGE NO.8 - UTILITY TRUSS BRIDGE - TYPICAL BEARING AT ABUTMENTS BRIDGE NO.8 - UTILITY TRUSS BRIDGE - BEARING REACTIONS AND CAMBER PACKAGE 5A: DETAILS-ELECTRICAL ABOVE GROUND MARKING DETAILS SPLICE VAULT AND CABLE MARKING DETAILS TYPICAL OPEN PIT SPLICE CASING DETAILS OPEN PIT SPLICE GROUNDING DETAILS STEEL SUPPORT DETAILS PACKAGE 5A: DETAILS-COMMUNICATIONS CASING CONNECTION DETAILS

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

SHEET INDEX

FIBER OPTIC HAND HOLE DETAILS

FIBER OPTIC SLACK ENCLOSURE DETAIL

FIBER OPTIC SPLICE DIAGRAM

PERMIT DRAWING NO.

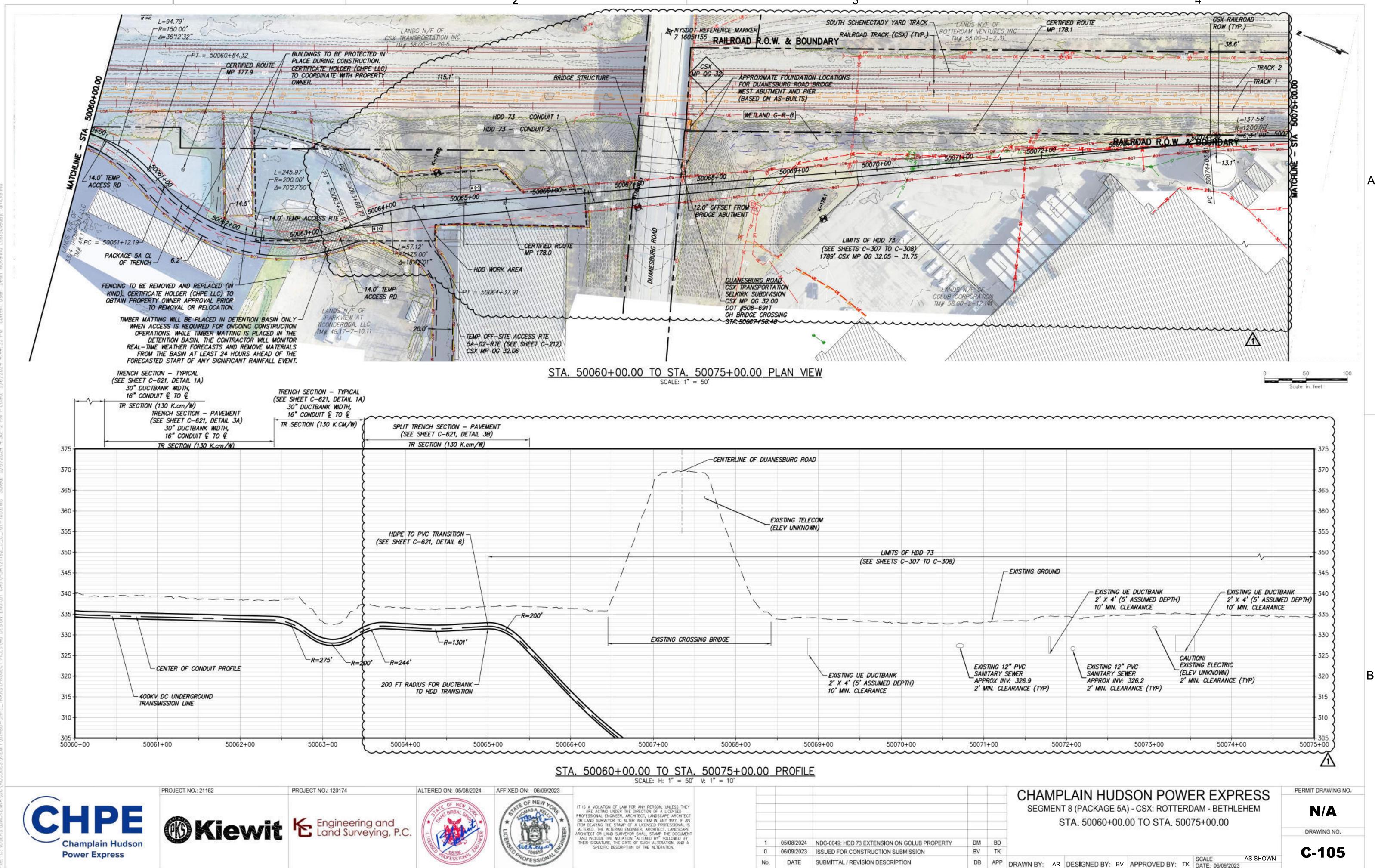
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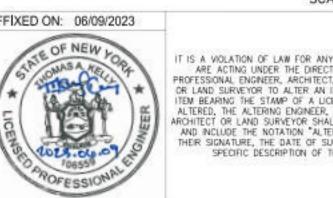
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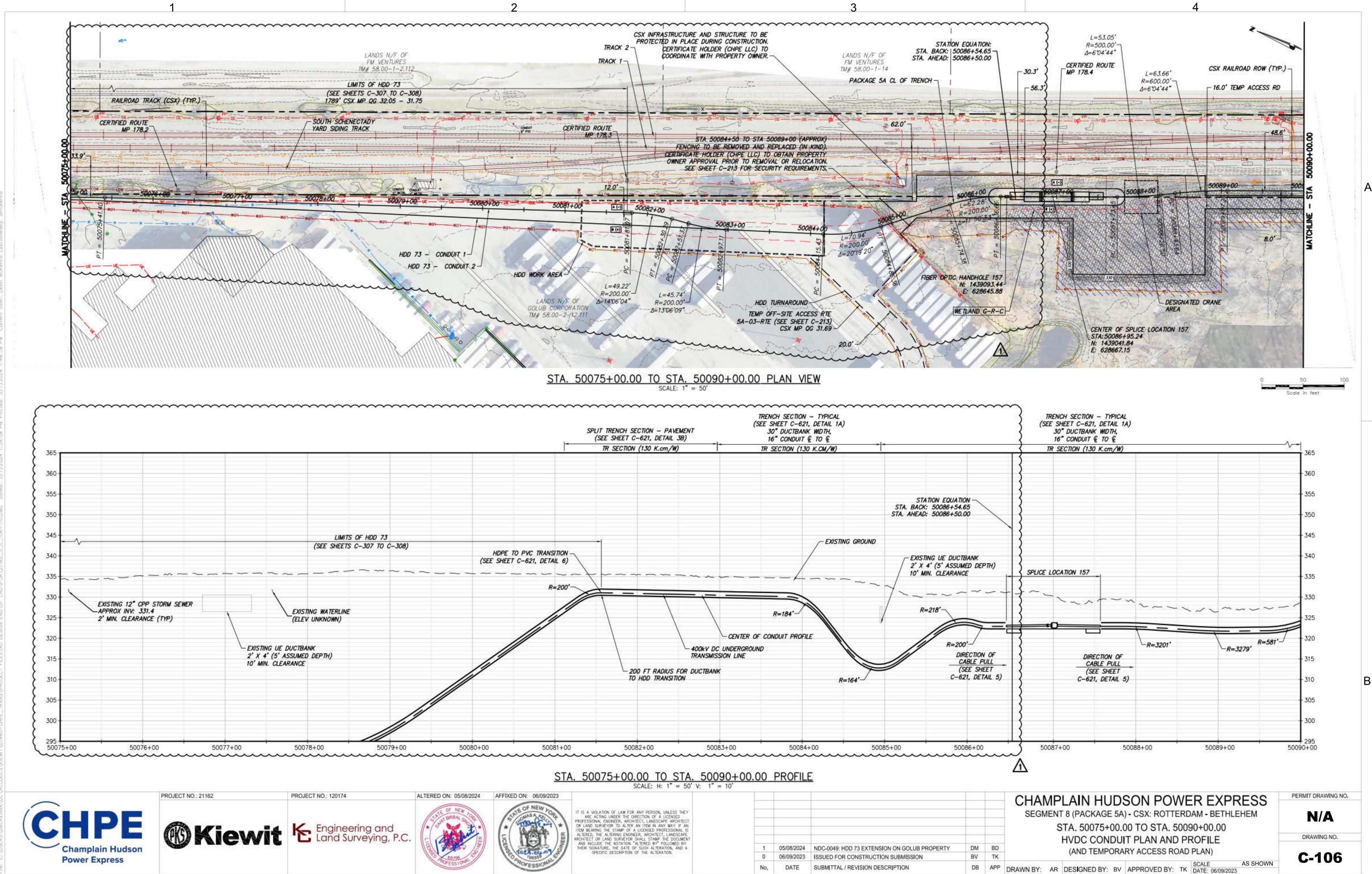
AS SHOWN DRAWN BY: AR DESIGNED BY: BV APPROVED BY: TK SCALE DATE: 06/09/2023

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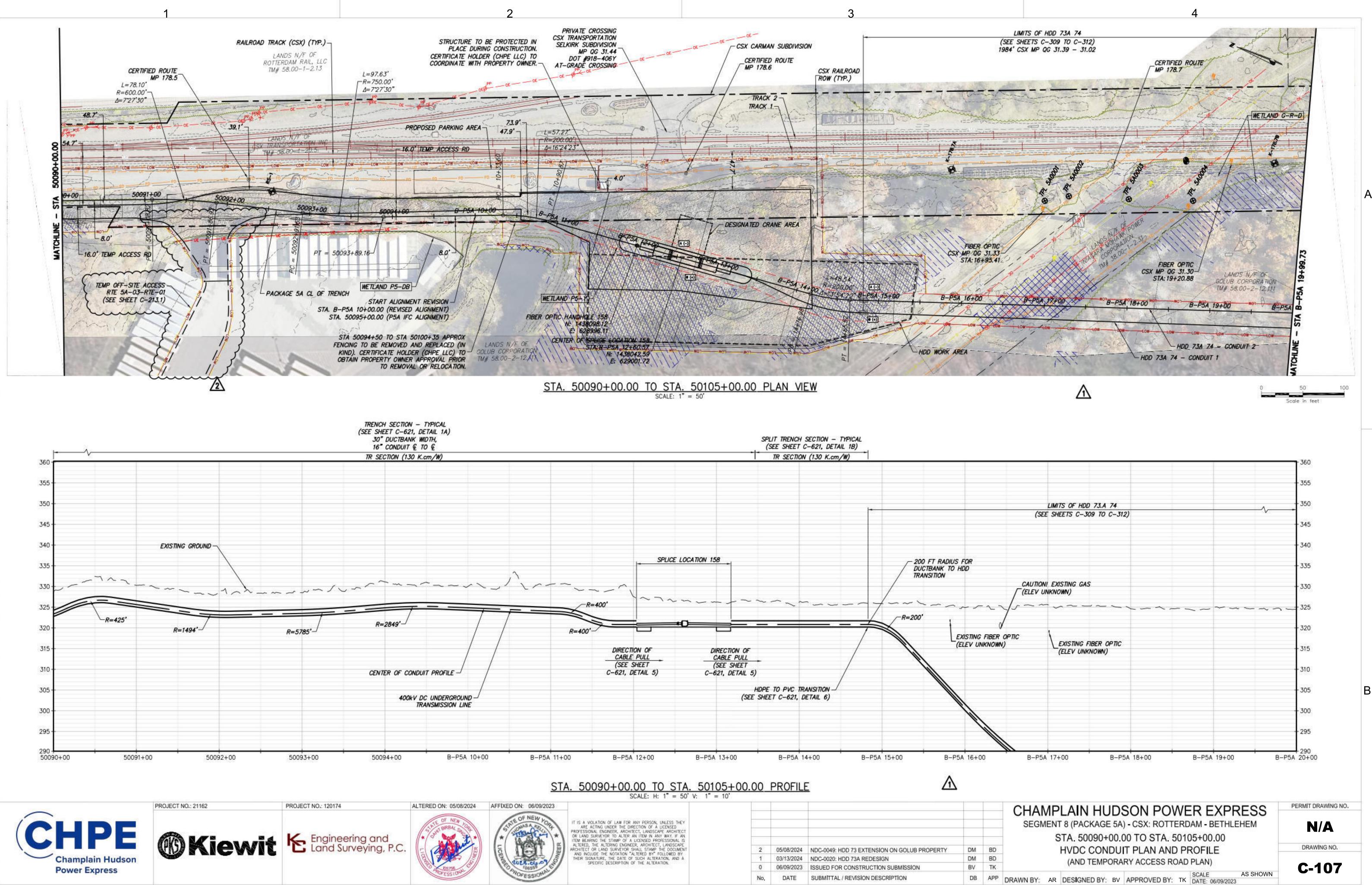




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1	05/08/2024	NDC-0049: HDD 73 EXTENSION ON GOLUB PROPERTY	DM	BD	1
0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION	BV	TK	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRA



	5 C 10 F 10					
A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED ESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT AND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT D INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY						
R SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.	1	05/08/2024	NDC-0049: HDD 73 EXTENSION ON GOLUB PROPERTY	DM	BD	
SPECIFIC DESCRIPTION OF THE ALTERATION.	0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION	BV	TK	
	No,	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRA
	No,	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	D



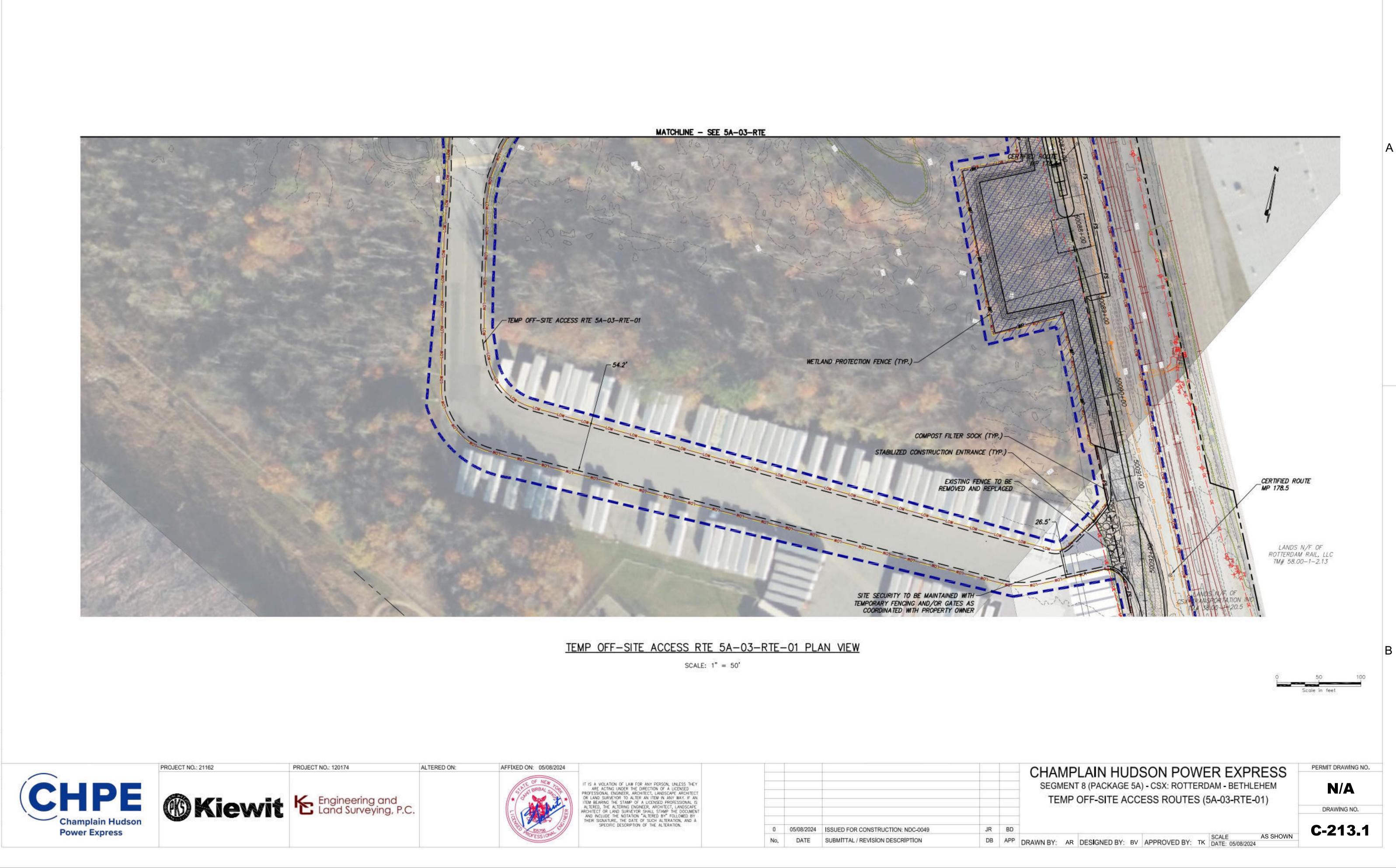




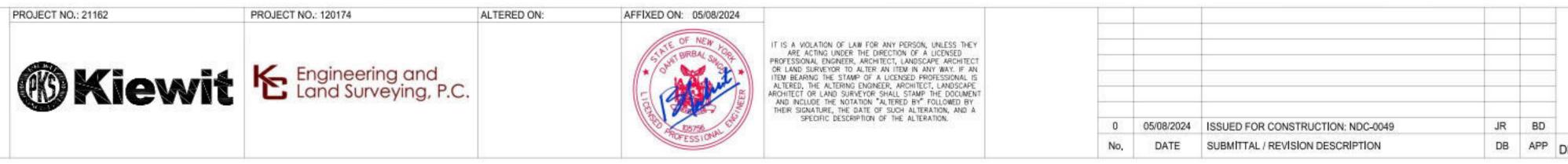


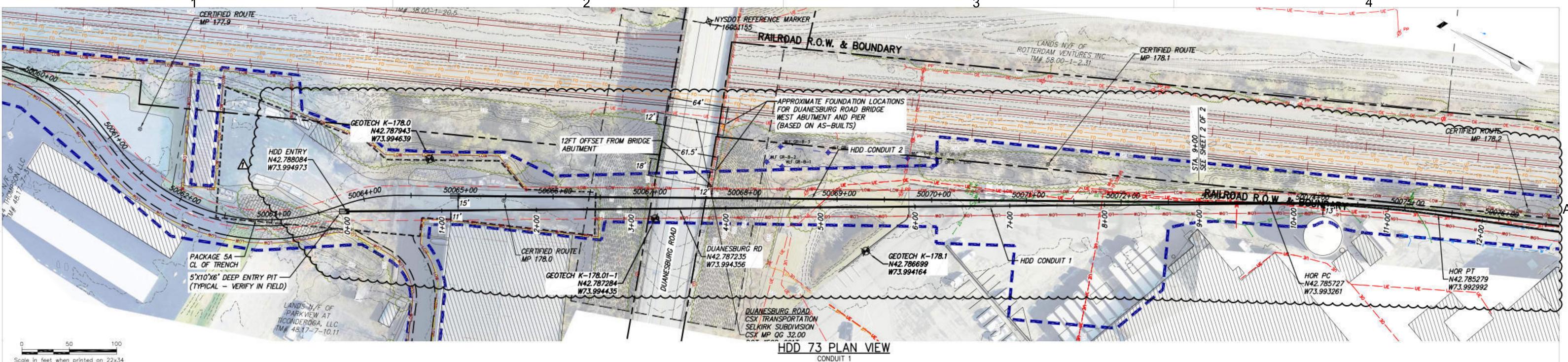


	SCALE: 1" =	= 50'					
AFFIXED ON: 06/09/2023						1	(
ALLE OF NEW TOOPH + HEAVE	IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE 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.	1	05/08/2024	NDC-0049: HDD 73 EXTENSION ON GOLUB PROPERTY	JR	BD	
CO 103692 E	SPECIFIC DESCRIPTION OF THE ALTERATION.	0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION	BV	TK	
TOFESSION		No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRA

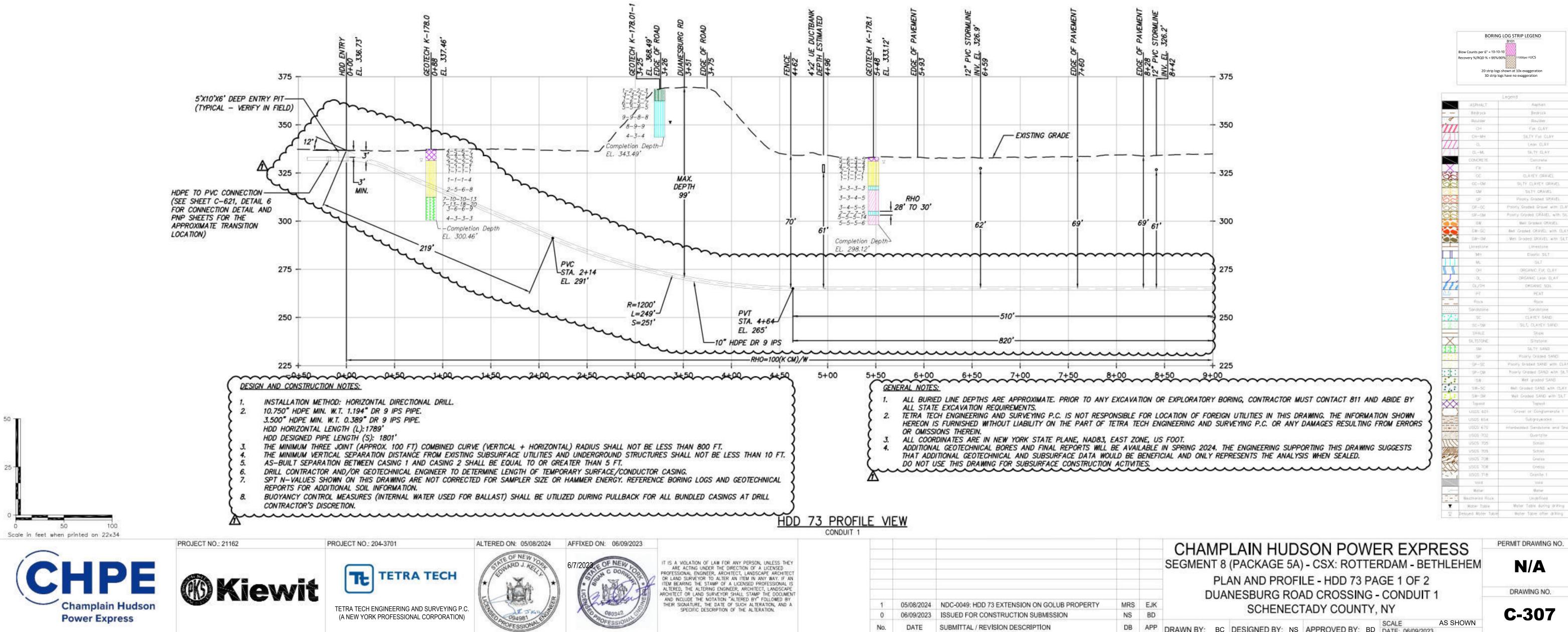








Scale in feet when printed on 22x34

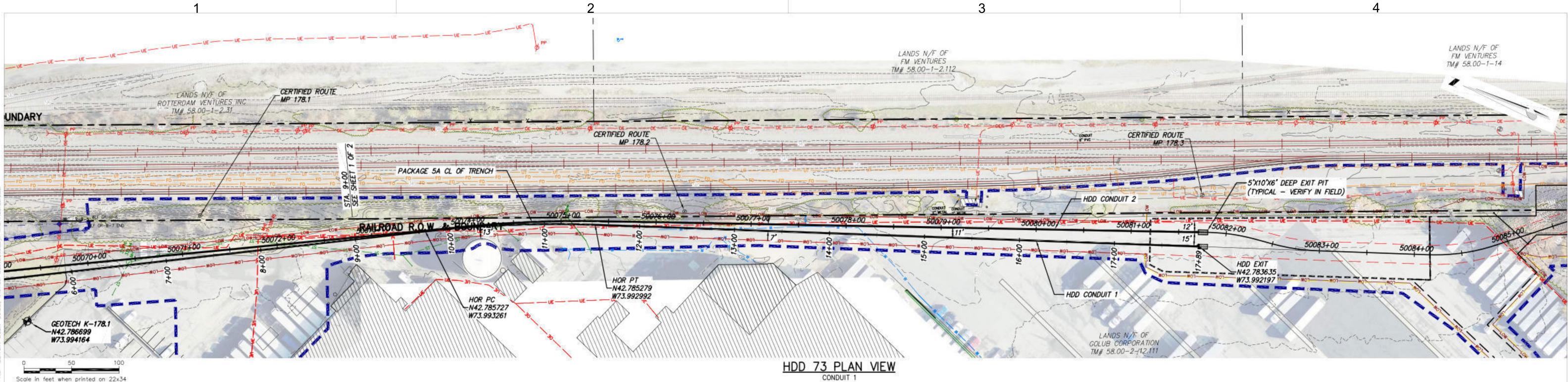


1	AFFIXED ON: 06/09/2023				
EER +	6/7/2023 OF NEW	IT IS A WOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL 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		05/08/2024	NDC-0049: HDD 73 EXTENSION ON GOLUB PROPERTY
¥//	Alex S	SPECIFIC DESCRIPTION OF THE ALTERATION.		00/00/2024	NDC-0049, HDD 75 EXTENSION ON GOLDB PROPERTY
/	0000000000 C		0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION
	OFESSION		No.	DATE	SUBMITTAL / REVISION DESCRIPTION

		GW/DC	Well Granted GRAVE: with DUGT
	203	DW-ON	Wei Groded GRAVEL with SAT
		Linestone	Livrestone
		501	Exatle SLT
		ML	54.7
	6.8	QH .	ORGANIC For, DLAY
	J.	-D.	DRSANC Labh DLAY
	111	01,/04	DREAME SOL
	54	PT .	PEAT
		Rock	Roce
	1111111	Soldstone	Sondatpoe
	5252	sc	CLAYEY SAND
	1.1	30-56	SLT, CLAYEY SMO
		SHALE	State
	X	S&,1570NE	Situtorie
	H.F.L	5.0	SALTY SAND
	1.1.1	:52	Poorly Gradet SAND
	100	-5#-32	Poorly Draded SAND with CLAY
	2223	SPHSM	Hoorly Graded SAND with S&T
2	2.2	SW.	Wet groded SAND
)	\$ 1.5	38-50	Web Groded SAND with CLAY
5	:1:	SW-SM	Well Groded SAND with SET
<	\times	Topsol	Topisol
~		USD5 601	Gravel or Songhamerate I
2		US05 154	Sub grays ocka
)	The second	0805 670	Warbedded Sandelone and Shale
)	100	US69 702	Quartzite.
1	1110	US65 705	Sichief
<	2003	USCS 709	Schuh
2	22	USCS 708	Gradian
)	777	U505 70#	Greiss
-018		USQS 758	Granite 1
		void	woka.
	12	Water	Matur
		Weathered Rock	Undefined
	T	Wober Table	Water Table during drilling
	T.	Delayed Water Tuble	Bater Table offer Arling

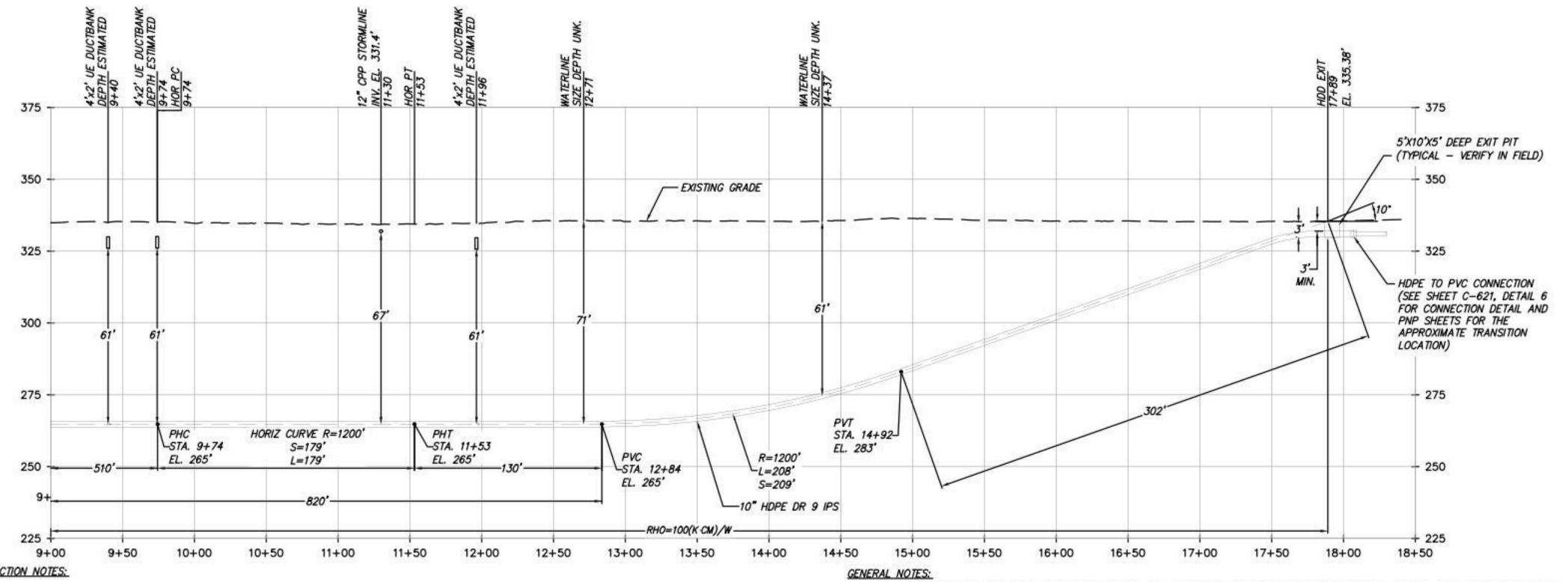
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CHAMP		SON POWE			PERMIT DRAWING NO.
EGMENT 8	(PACKAGE 5A)	- CSX: ROTTER	RDAM - BET	120	N/A
		LE - HDD 73 PA			DRAWING NO.
DUA		AD CROSSING - FADY COUNTY,		1 –	C-307
RAWN BY: BC	DESIGNED BY: NS	APPROVED BY: BD	SCALE DATE: 06/09/2023	AS SHOWN	6-307



Scale in feet when printed on 22x34

50



DESIGN AND CONSTRUCTION NOTES:

- INSTALLATION METHOD: HORIZONTAL DIRECTIONAL DRILL.
 - 10.750" HDPE MIN. W.T. 1.194" DR 9 IPS PIPE. 3.500" HDPE MIN. W.T. 0.389" DR 9 IPS PIPE.
- HDD HORIZONTAL LENGTH (L):1789'
- HDD DESIGNED PIPE LENGTH (S): 1801'
- AS-BUILT SEPARATION BETWEEN CASING 1 AND CASING 2 SHALL BE EQUAL TO OR GREATER THAN 5 FT. 5.
- DRILL CONTRACTOR AND/OR GEOTECHNICAL ENGINEER TO DETERMINE LENGTH OF TEMPORARY SURFACE/CONDUCTOR CASING. 6.
- REPORTS FOR ADDITIONAL SOIL INFORMATION.
- BUOYANCY CONTROL MEASURES (INTERNAL WATER USED FOR BALLAST) SHALL BE UTILIZED DURING PULLBACK FOR ALL BUNDLED CASINGS AT DRILL 8. CONTRACTOR'S DISCRETION.



THE MINIMUM THREE JOINT (APPROX. 100 FT) COMBINED CURVE (VERTICAL + HORIZONTAL) RADIUS SHALL NOT BE LESS THAN 800 FT. THE MINIMUM VERTICAL SEPARATION DISTANCE FROM EXISTING SUBSURFACE UTILITIES AND UNDERGROUND STRUCTURES SHALL NOT BE LESS THAN 10 FT. SPT N-VALUES SHOWN ON THIS DRAWING ARE NOT CORRECTED FOR SAMPLER SIZE OR HAMMER ENERGY. REFERENCE BORING LOGS AND GEOTECHNICAL

HDD 73 PROFILE VIEW

		CONDUIT					
5/08/2024							C
1000 × 1000	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 DOCLMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THER SIGNATURE, THE DATE OF SUCH ALTERATION, AND A					S	SE
	SPECIFIC DESCRIPTION OF THE ALTERATION.	0	05/08/2024	ISSUED FOR CONSTRUCTION: NDC-0049	MRS	EJK	
DNAL		No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRA

2.

ALL STATE EXCAVATION REQUIREMENTS.

DO NOT USE THIS DRAWING FOR SUBSURFACE CONSTRUCTION ACTIVITIES.

OR OMISSIONS THEREIN.

1. ALL BURIED LINE DEPTHS ARE APPROXIMATE. PRIOR TO ANY EXCAVATION OR EXPLORATORY BORING, CONTRACTOR MUST CONTACT 811 AND ABIDE BY

TETRA TECH ENGINEERING AND SURVEYING P.C. IS NOT RESPONSIBLE FOR LOCATION OF FOREIGN UTILITIES IN THIS DRAWING. THE INFORMATION SHOWN HEREON IS FURNISHED WITHOUT LIABILITY ON THE PART OF TETRA TECH ENGINEERING AND SURVEYING P.C. OR ANY DAMAGES RESULTING FROM ERRORS

ALL COORDINATES ARE IN NEW YORK STATE PLANE, NAD83, EAST ZONE, US FOOT.

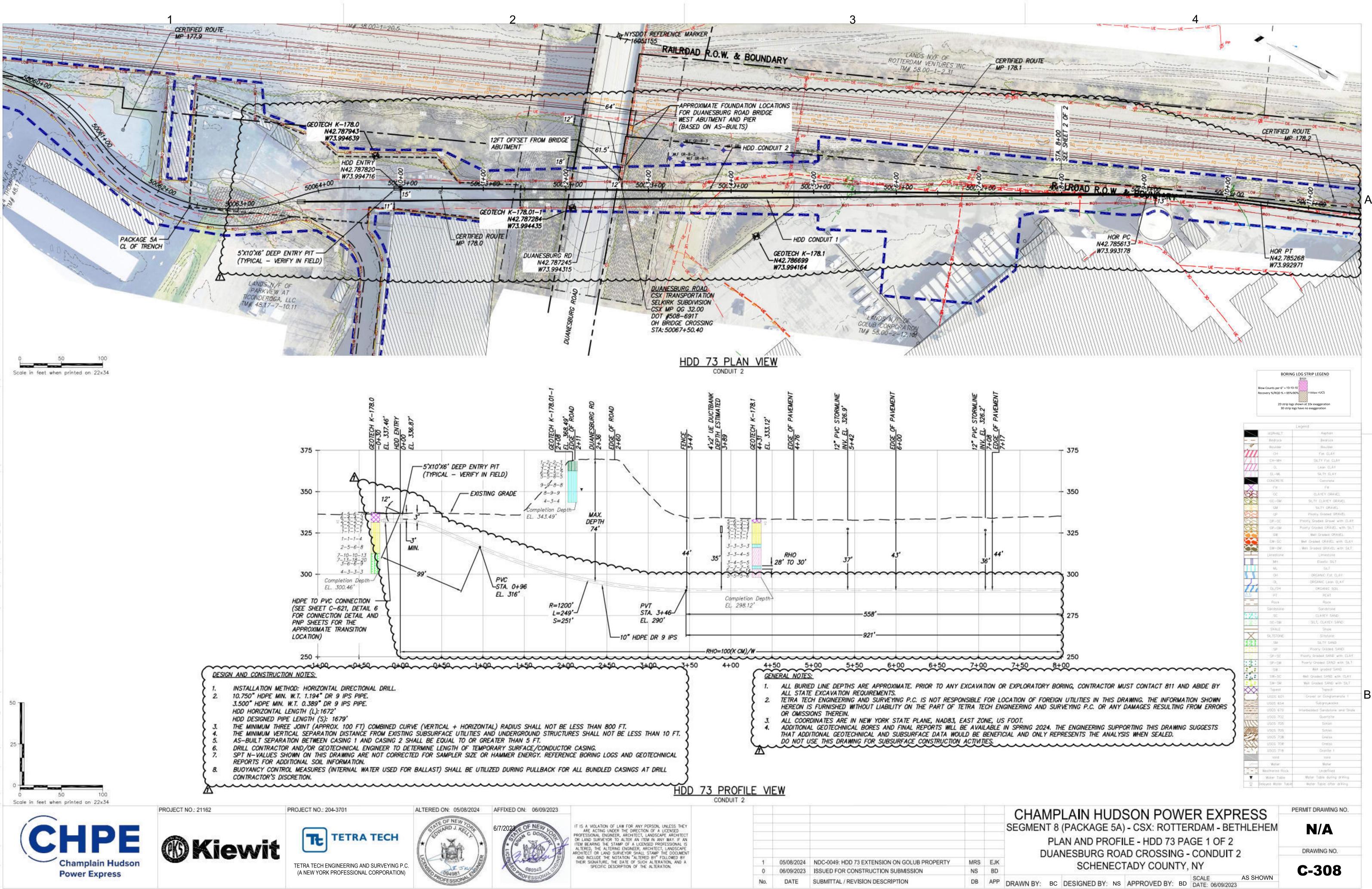
ADDITIONAL GEOTECHNICAL BORES AND FINAL REPORTS WILL BE AVAILABLE IN SPRING 2024. THE ENGINEERING SUPPORTING THIS DRAWING SUGGESTS THAT ADDITIONAL GEOTECHNICAL AND SUBSURFACE DATA WOULD BE BENEFICIAL AND ONLY REPRESENTS THE ANALYSIS WHEN SEALED.

	00000
	Legend
ASPHALT	Alphist

BORING LOG STRIP LEGEND

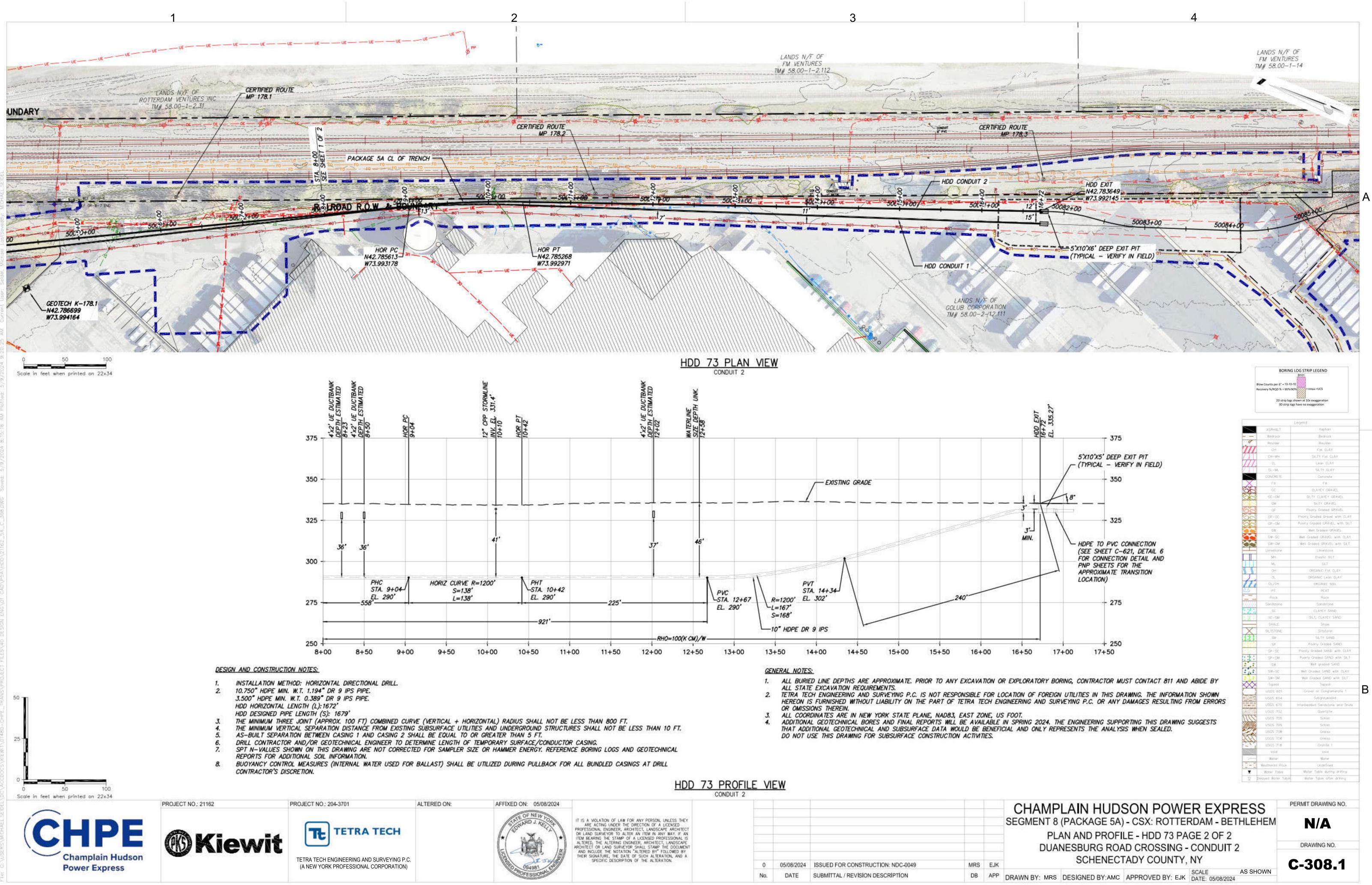
(S)		1.52.55127.1	
~	ASPHALT	Auption	-
	Hedrack	Bennick	
9	Roulder	maider	
711	01	Fitt, OLAY	
7311	COREMO	SULTY Full CLAY	1
777	-0_	Lean CLAY	
7111	CL-MC	SE, TY D, AY	1
1	CONCRETE	Concrete	
X	CH.	ÉI	1
66	60	DLAYEY GRAVEL	1
20	GC-CM	SILTY CLAVEY GRAVEL	
and the second	CM	SLITY GRAVEL	1
203	œ	Pootly Graded TRAITL	
22	6P-60	Poorly Graded Bravel with CLAY	-
EE	SP-04	Penny Grades CRAVEL with SUT	-
22	UW.	WHI Grosen ORAVEL	-
1	Gan-DC	Well Granted CEAVEL with DUKT	-
	0W-0M	Weil Groted (PAVEL with SLT	-
-		A CONTRACTOR OF A CONTRACT OF A CONTRACT OF	
	Linestone	Limediate Finally, 74.7	1
H-H-I	361	Dante SLT	-
1	ML	50	-
2.2	0H	ORGANIC FOR DLAY	-
10	-D.	DRGANIC Leon DLAY	-
111	DL/DH	DESANGE SOL	-
12.20	191	PEAT	-
	Rock	Rock	-
10000	Solidstone-	Sondetpoe	-
12.4	SC	CLAYEY SAND	-
121	38-38	SILT, CLAYEY SMAD	-
	SHAFE	State	
X	SIL 1570NE	Situtorie	
	5.0	SLTY SAND	
2222	:5*	Poorly Gradet SAND	-
100	-5F-92	Poorly Gradeit SAND with CLAY	
1212	SPHSM	Poorly Grades SAND with St.T	
2.1	15种。	Well groded SAND	-
= 1. =	38-50	Web Groded SAND with CLAY	
2.12	596-556	Well Groded SAND with SET	
\times	Topsol	Topisol	
()	USDE 401	Gravel or Conglomerate 1	В
	US65 854	Sub graywiccea	
	USCS 670	Warbedded Sandalorie and Snafe	
	US65 702	Quartzite	
1110	US05 705	Schief	
2003	USCS 7(29	Schlinh	1
27	USCS 708	Greet as	1
1.17		Gneiss	
3 may	U565 70#		
1	USGS 708 USGS 718	Granibe 1	
- 1		Granite) Vois	
	USQS 718		
	USQS-718 Vold Volar	yold Matur	
	USQS 758 Vold	yska	





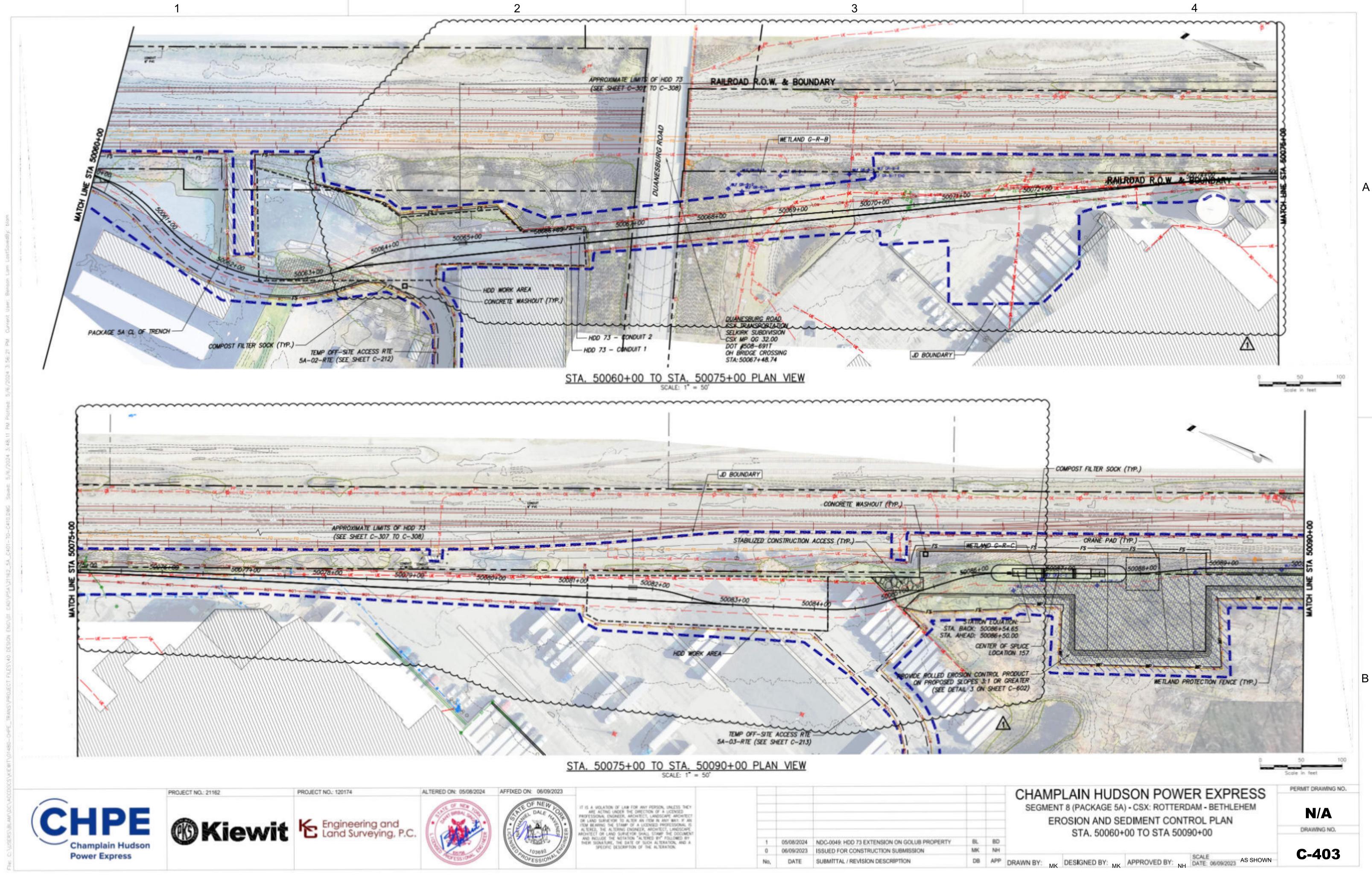
BORING LOG STRIP LEGEND
B101
9////8
Blow Counts per 6" = 10-10-10
Recovery %/RQD % = 95%/90% 11000psi =UCS
0000
2D strip logs shown at 10x exaggeration
3D strip logs have no exaggeration

1	ASPHALT	Alphist
	Hedrack	Bernick
9	Boulder	madder
111	OH.	FDR. CLAY
7111	(1000元目目)()	SULTY Fell GLAY
111	-0.	Lean CLAY
7111	CL-ML	SE, TY D, AY
1	CONCRETE	Cetcrete
X	ER.	Ell
56	30	DLAYEY GRAVEL
22	GG-GM	SULTY CLAVEY GRAVEL
200	GM	SLTY GRAVEL
has	OP.	Poorty Graded TREAVEL
22	6F-60	Proving Graded Gravel with CLAY
ERI	SP-CM	Penny Graded GRAVEL with SUT
22	dΨ.	WHI Grosed ORAVEL
-	G # - 100	Well Granted GRAVEL with DL61
	TH-OM	
-	Linestone	Wei Groded URAVEL with SLT
		Limestane
	349	Diratic SLT
	ML	ULT.
8,8	OH :	ORGANIC For DLAY
10	0.	ORGANIC Leon DLAY
111	DL/DH	DRGANE SOL
0.4	-191	PEAT
	Rock	Rock
10000	Sovidstorie	Sprightphe
12.4	SC -	CLAYEY SAND
121	38-5M	SET, CLAYER SMAD
-	SHALE	5049
X	SIL 1570NE	Situtorie
	542	SALTY SAND
111	: 52*	Poonly Graded SAND
182	-5#-5£	Poorly Gradelt SAND with CLAY
122	SPHSM	Hoorly Grades SAND with S&T
1.1	SW	Well groded SAND
: 1.1	38-50	Web Groded SAND with CLAY
:1:	SW-SM	Well Groded SAND with SET
XX	Topsol	Topiacil
× ×	USD5-801	Gravel or Gonglamerate 1
	US05 654	Sub graywooka
	0805 670	Invertiendent Sendelonie and Sincle
1000	US65 702	Quartzite.
27511	US05 705	Schief
Winte.	U505-105	Schief
217	USCS 708	Greens
FTH	U565 70#	Gnelss
2127	USQS 718	Ceanite 1
- 1	void.	void /
22	Water	Voter
1.25	Westbered Rock	10.000 A. 19
	THE DIFFERENCE IN COLOR.	-Los de Tried
	Woter Table	Water Table during drilling

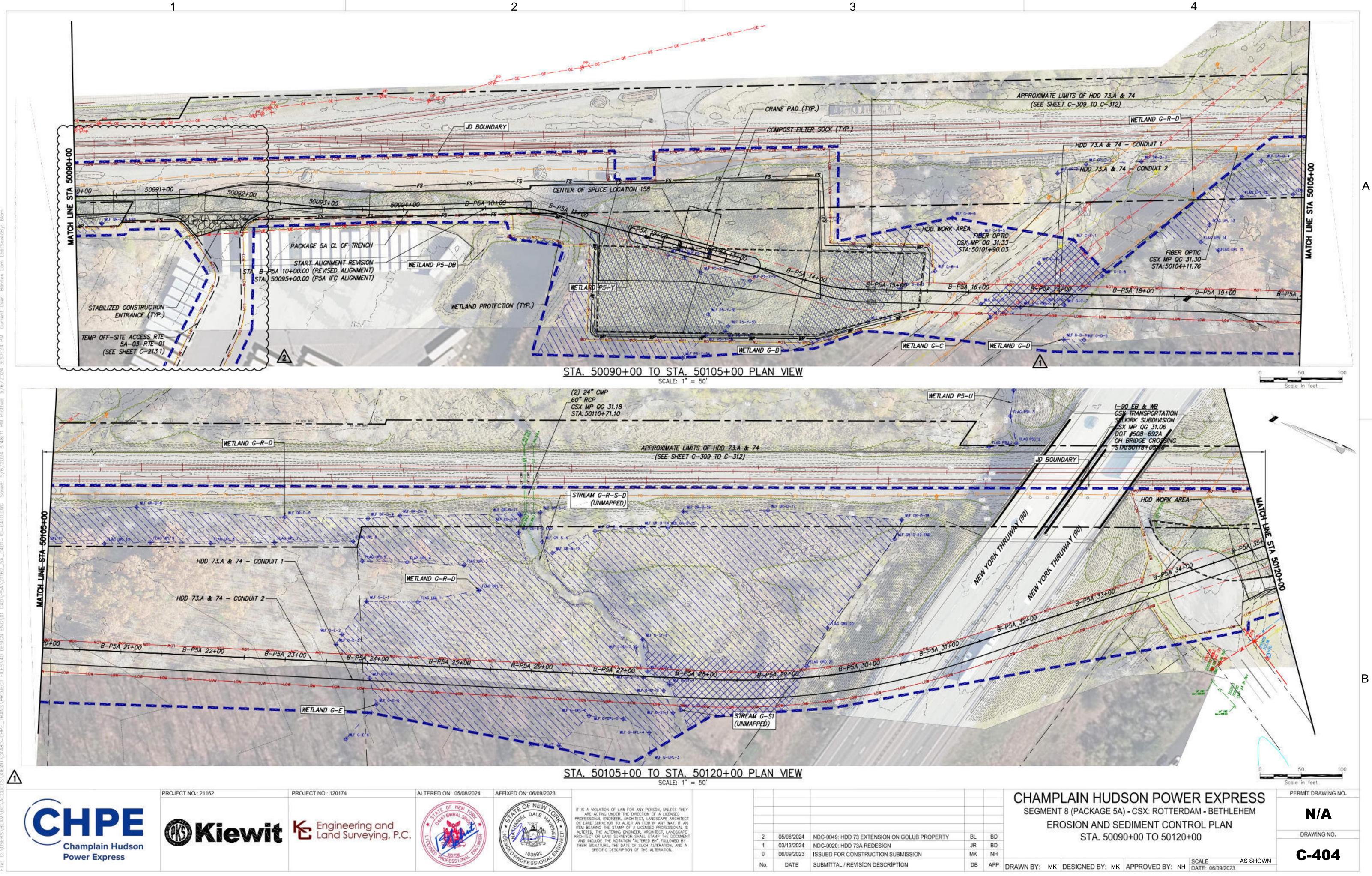


	beschild beter of	CONDUIT 2					
KED ON: 05/08/2024							
TI IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THER SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.						SE	
094981	SPECIFIC DESCRIPTION OF THE ALTERATION.	0	05/08/2024	ISSUED FOR CONSTRUCTION: NDC-0049	MRS	EJK	
POFESSIONAL		No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DR

		Legend
1	ASPHALT	Alphall
	Hedrack	Beauch
9	Router	Binalder
111	01	For CLAY
011	COHEMB /	S&TY Fmi GLAY
TT	-0.	Leon DLAY
111	101-MC	SE, TY D, AY
·	CONCRETE	Cancrete
X	-FIL	- Fil
363	60	QLAYEY GRAVEL
14	GC-CM	SILTY CLAYEY GRAVEL
1	GM	SILTY GRAVEL
203	œ	Poolity Graded IRRATI
200	08-00	Poorly Graded Dravel with CLAY
1	SP-CM	Poorty Graded GRAVEL with SILT
	ΩW.	WHI Groden ORAVEL
-	Gar-DC	Well Graned GRAVEL with DLAT
-	DW-OM	Wei Groded (RAVEL with SLT
	Linestone	Limestake
-	301	Dautic SLT
		SAT
	ML.	
1	0H	ORGANIC For, DLAY
1	- · 0.	DRSANIC Leon D,AV
11	DL/DH	DREAMIC SOL
	191	PEAT
	Rock	Rock
2000	Solidstone-	Sondatpoe
14	SC.	CLAYEY SAND
22	30-59	SLT, CLAYEY SAND
	SHAFE	Stocke
X	SIL 1570NE	Situtorie
	510	SA.TY SAND
	:59	Poorly Gradet SAND
10.1	28-46-	Poorly Draded SAND with CLAY
12.2	SPHSM	Poorly Graded SAND with S&T
	15种。	Wet groded SAND
1.1	38-50	Web Groded SAND with 02.6Y
1.1	59-59	Well Groded SAND with SET
XX	Topsol	Teptsol
	USUS 601	Gravel or Conglomerate I
	US05 154	Sub graywooka
	0805 670	Interbedded Sandelorie and Sinche
12.5	US65 702	Quartzite.
111	0565 765	Schief
ini.	uscs 705	Schist
17	USC5 708	Greins
Mr.	U566 70#	Greiss
144	US05 718	Granite 1
- 1	vold.	vola
1.1		
	Water	Ratie
	Weathered Rock	UndeFried Water Table during drifting
	Wober Table	Walks Idon during Driving



FFIXED ON: 06/09/2023					-		C
THE OF NEW YORK - HEAD	TE OF NEW TO ANE ACTING UNDER THE DIRECTOR OF A LICENSED PROFESSIONAL ENGINEER, ARCHIECT, LANDSCAPE ARCHIECT OF LAND SURVEYER TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STARF OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERNS DALIER ANOTECT, LANDSCAPE ARCHIECT OR LAND SURVEYOR SHALL STARF THE DOCUMENT AND INCLUSE THE NOTATION "ALTERED BY" FOLLOWED BY THEM IN LAND SURVEYOR SHALL STARF THE DOCUMENT AND INCLUSE THE NOTATION "ALTERED BY" FOLLOWED BY	1	05/08/2024	NDC-0049: HDD 73 EXTENSION ON GOLUB PROPERTY	BL	BD	
103692 5	SPECIFIC DESCRIPTION OF THE ALTERATION.	0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION	MK	NH	L
POFESSIONAL		No,	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRA



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PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITEC
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ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS
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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.
SPECIFIC DESCRIPTION OF THE PLIENATION.

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2	05/08/2024	NDC-0049: HDD 73 EXTENSION ON GOLUB PROPERTY	BL	BD	
1	03/13/2024	NDC-0020: HDD 73A REDESIGN	JR	BD	1
0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION	MK	NH	1
No,	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRA



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

Segment 8 (Package 5A) EM&CP Appendix E Added Sheets – NDC-0049