

**APPENDIX C:  
PLAN & PROFILE DRAWINGS, EROSION  
AND SEDIMENT CONTROL PLANS, AND  
MAINTENANCE AND PROTECTION OF  
TRAFFIC PLANS  
CASE 10-T-0139**

# CHAMPLAIN HUDSON POWER EXPRESS

## SEGMENT 12 - PACKAGE 7B - ROUTE 9W: ROCKLAND ROCKLAND COUNTY, NEW YORK FINAL SUBMISSION

APRIL 14, 2023



SITE LOCATION MAP  
SCALE: 1" = 5000'



TETRA TECH ENGINEERING AND SURVEYING P.C.  
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ISSUED FOR PERMITTING

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
F	04/14/2023	FINAL SUBMISSION	RB	JL
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A	02/18/2022	PRELIMINARY PROGRESS	BV	TK

CHAMPLAIN HUDSON POWER EXPRESS  
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W:  
ROCKLAND  
COVER SHEET

KIEWIT PROJECT NO.	21162
TT PROJECT NO.	204-3701
DRAWING NO.	G-000
DATE	04/14/2023
SH.NO.	OF --

DRAWN BY:	RB	DESIGNED BY:	AC	APPROVED BY:	JL	SCALE	AS SHOWN	DATE	04/14/2023
						REV. NO.	F	SH.NO.	OF --



SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
PACKAGE 7B: GENERAL SHEETS	
G-000	COVER SHEET
G-001	SHEET INDEX - SHEET 1 OF 2
G-002	SHEET INDEX - SHEET 2 OF 2
G-003	GENERAL NOTES
G-004	PACKAGE SPECIFIC NOTES
G-005	LEGEND & ABBREVIATIONS
G-006	PLAN AND PROFILE KEY MAP
G-007	SPLICE, LINK BOX, AND FIBER OPTIC HANDHOLE LOCATION TABLES
G-010	EM&CP DATA TABLES - SHEET 1 OF 4
G-011	EM&CP DATA TABLES - SHEET 2 OF 4
G-012	EM&CP DATA TABLES - SHEET 3 OF 4
G-013	EM&CP DATA TABLES - SHEET 4 OF 4
G-020	RESTORATION NOTES
PACKAGE 7B: PLAN AND PROFILE SHEETS	
C-100	STA. 72495+26.00 TO STA. 72500+00.00 PLAN AND PROFILE
C-101	STA. 72500+00.00 TO STA. 72515+00.00 PLAN AND PROFILE
C-102	STA. 72515+00.00 TO STA. 72530+00.00 PLAN AND PROFILE
C-103	STA. 72530+00.00 TO STA. 72545+00.00 PLAN AND PROFILE
C-104	STA. 72545+00.00 TO STA. 72560+50.00 PLAN AND PROFILE
C-105	STA. 72560+50.00 TO STA. 72575+00.00 PLAN AND PROFILE
C-106	STA. 72575+00.00 TO STA. 72590+00.00 PLAN AND PROFILE
C-107	STA. 72590+00.00 TO STA. 72605+00.00 PLAN AND PROFILE
C-108	STA. 72605+00.00 TO STA. 72620+00.00 PLAN AND PROFILE
C-109	STA. 72620+00.00 TO STA. 72635+00.00 PLAN AND PROFILE
C-110	STA. 72635+00.00 TO STA. 72650+00.00 PLAN AND PROFILE
C-111	STA. 72650+00.00 TO STA. 72665+00.00 PLAN AND PROFILE
C-112	STA. 72665+00.00 TO STA. 72680+00.00 PLAN AND PROFILE
C-113	STA. 72680+00.00 TO STA. 72695+00.00 PLAN AND PROFILE
C-114	STA. 72695+00.00 TO STA. 72710+00.00 PLAN AND PROFILE
C-115	STA. 72710+00.00 TO STA. 72725+00.00 PLAN AND PROFILE
C-116	STA. 72725+00.00 TO STA. 72740+00.00 PLAN AND PROFILE
C-117	STA. 72740+00.00 TO STA. 72755+00.00 PLAN AND PROFILE
C-118	STA. 72755+00.00 TO STA. 72770+00.00 PLAN AND PROFILE
C-119	STA. 72770+00.00 TO STA. 72784+50.00 PLAN AND PROFILE
C-120	STA. 72784+50.00 TO STA. 72800+00.00 PLAN AND PROFILE
C-121	STA. 72800+00.00 TO STA. 72815+00.00 PLAN AND PROFILE
C-122	STA. 72815+00.00 TO STA. 72830+00.00 PLAN AND PROFILE
C-123	STA. 72830+00.00 TO STA. 72845+00.00 PLAN AND PROFILE
C-124	STA. 72845+00.00 TO STA. 72860+00.00 PLAN AND PROFILE
C-125	STA. 72860+00.00 TO STA. 72875+00.00 PLAN AND PROFILE
C-126	STA. 72875+00.00 TO STA. 72890+00.00 PLAN AND PROFILE
C-127	STA. 72890+00.00 TO STA. 72899+20.13 PLAN AND PROFILE
PACKAGE 7B: DRAINAGE RELOCATION EXHIBITS	
C-128	DRAINAGE RELOCATION NORTH OF JAMES FARLEY BRIDGE
PACKAGE 7B: CONCRETE BARRIER EXHIBITS	
C-129	RTE 9W AND SHORT CLOVE RD PROPOSED CONCRETE BARRIER AND DRAINAGE IMPROVEMENTS
PACKAGE 7B: INTERSECTION INSET EXHIBITS	
C-130	PARK DR AND GEORGIAN DR INTERSECTION
C-131	PARK ROAD AND N LIBERTY DR INTERSECTION
C-132	N LIBERTY DR AND TOMPKINS AVE INTERSECTION
C-133	N LIBERTY DR AND W MAIN ST INTERSECTION
C-134	CONGER AVE AND NEW MAIN ST INTERSECTION
PACKAGE 7B: ACCESS AND CONSTRUCTION STAGING PLANS	
C-201	OFF SITE ACCESS ROADS - SHEET 1 OF 2
C-202	OFF SITE ACCESS ROADS - SHEET 2 OF 2
C-203	TOMKINS COVE LAY/DOWN YARD
PACKAGE 7B: HDD TRENCHLESS PLANS	
C-324	PROPOSED PLAN AND PROFILE HDD 124
C-324.2	PROPOSED PLAN AND PROFILE HDD 124.2
C-326	PROPOSED PLAN AND PROFILE HDD 126
C-326.2	PROPOSED PLAN AND PROFILE HDD 126.2
C-327	PROPOSED PLAN AND PROFILE HDD 127
C-327.2	PROPOSED PLAN AND PROFILE HDD 127.2

C-329	PROPOSED PLAN AND PROFILE HDD 129
C-329.2	PROPOSED PLAN AND PROFILE HDD 129.2
C-331	PROPOSED PLAN AND PROFILE HDD 131
C-331.2	PROPOSED PLAN AND PROFILE HDD 131.2
C-332	PROPOSED PLAN AND PROFILE HDD 132
C-332.2	PROPOSED PLAN AND PROFILE HDD 132.2
C-350	PROPOSED PLAN AND PROFILE TRENCHLESS 12-254.9+2.7
PACKAGE 7B: EROSION AND SEDIMENT CONTROL PLANS	
C-400	KEY PLAN E&SC
C-400A	STA. 72495+26.48 TO STA. 72500+00.00
C-401	STA. 72500+00.00 TO STA. 72530+00.00
C-402	STA. 72530+00.00 TO STA. 72560+00.00
C-403	STA. 72560+00.00 TO STA. 72590+00.00
C-404	STA. 72590+00.00 TO STA. 72620+00.00
C-405	STA. 72620+00.00 TO STA. 72650+00.00
C-406	STA. 72650+00.00 TO STA. 72680+00.00
C-407	STA. 72680+00.00 TO STA. 72710+00.00
C-408	STA. 72710+00.00 TO STA. 72740+00.00
C-409	STA. 72740+00.00 TO STA. 72770+00.00
C-410	STA. 72770+00.00 TO STA. 72800+00.00
C-411	STA. 72800+00.00 TO STA. 72830+00.00
C-412	STA. 72830+00.00 TO STA. 72860+00.00
C-413	STA. 72860+00.00 TO STA. 72890+00.00
C-414	STA. 72890+00.00 TO STA. 72899+20.13
PACKAGE 7B: PAVEMENT MARKING PLANS	
C-550	KEY PLAN PAVEMENT MARKING PLANS
C-551	GENERAL NOTES
C-552	PAVEMENT MARKING PLAN - SHEET 1 OF 13
C-553	PAVEMENT MARKING PLAN - SHEET 2 OF 13
C-554	PAVEMENT MARKING PLAN - SHEET 3 OF 13
C-555	PAVEMENT MARKING PLAN - SHEET 4 OF 13
C-556	PAVEMENT MARKING PLAN - SHEET 5 OF 13
C-557	PAVEMENT MARKING PLAN - SHEET 6 OF 13
C-558	PAVEMENT MARKING PLAN - SHEET 7 OF 13
C-559	PAVEMENT MARKING PLAN - SHEET 8 OF 13
C-560	PAVEMENT MARKING PLAN - SHEET 9 OF 13
C-561	PAVEMENT MARKING PLAN - SHEET 10 OF 13
C-562	PAVEMENT MARKING PLAN - SHEET 11 OF 13
C-563	PAVEMENT MARKING PLAN - SHEET 12 OF 13
C-564	PAVEMENT MARKING PLAN - SHEET 13 OF 13
PACKAGE 7B: DETAILS - EROSION AND SEDIMENT CONTROL DETAILS	
C-601	EROSION AND SEDIMENT CONTROL DETAILS
C-602	EROSION AND SEDIMENT CONTROL DETAILS
PACKAGE 7B: DETAILS - EM&CP ENVIRONMENTAL	
C-611	WETLAND CROSSING DETAILS
C-613	WETLAND WORKING SURFACE DETAILS
PACKAGE 7B: DETAILS - CONSTRUCTION AND INSTALLATION DETAILS	
C-621	TRENCHING DETAILS
PACKAGE 7B: DETAILS - RESTORATION DETAILS	
C-631	SURFACE RESTORATION DETAILS
PACKAGE 7B: DETAILS - ELECTRICAL	
C-801	ABOVE GROUND MARKING DETAILS
C-802	TYPICAL VAULT SNAKING DETAILS
C-803	TYPICAL VAULT GROUNDING DETAILS
C-805	TYPICAL TRANSITION VAULT SNAKING DETAILS
C-806	TRANSITION VAULT GROUNDING DETAILS
C-807	MANHOLE MARKING DETAILS
C-812	VAULT CONNECTION DETAILS
PACKAGE 7B: DETAILS - COMMUNICATIONS	
C-850	TRANSITION VAULT FIBER OPTIC DETAIL
C-851	DTS HUT CONNECTION FIBER OPTIC SPLICE & HAND HOLE
C-852	ENCLOSED VAULT WITH FIBER OPTICS
C-855	FIBER OPTIC SPLICE DIAGRAM
C-856	FIBER OPTIC SLACK ENCLOSURE DETAIL
PACKAGE 7B: DETAILS - UTILITIES	

C-901	UTILITY TYPICAL SEPARATION DETAILS
PACKAGE 7B: ROAD SECTION EXHIBITS	
C-1001	ROAD SECTION EXHIBIT STA. 72495+50 TO STA. 72504+15
C-1002	ROAD SECTION EXHIBIT STA. 72506+50 TO STA. 72527+50
C-1003	ROAD SECTION EXHIBIT STA. 72531+75 TO STA. 72548+80
C-1004	ROAD SECTION EXHIBIT STA. 72553+15 TO STA. 72560+25
C-1005	ROAD SECTION EXHIBIT STA. 72561+20 TO STA. 72588+50
C-1006	ROAD SECTION EXHIBIT STA. 72599+00 TO STA. 72611+00
C-1007	ROAD SECTION EXHIBIT STA. 72625+45 TO STA. 72634+15
C-1008	ROAD SECTION EXHIBIT STA. 72635+50 TO STA. 72675+70
C-1009	ROAD SECTION EXHIBIT STA. 72676+75 TO STA. 72698+95
C-1010	ROAD SECTION EXHIBIT STA. 72704+45 TO STA. 72712+55
C-1011	ROAD SECTION EXHIBIT STA. 72730+40 TO STA. 72764+70
C-1012	ROAD SECTION EXHIBIT STA. 72766+60 TO STA. 72796+35
C-1013	ROAD SECTION EXHIBIT STA. 72809+25 TO STA. 72820+75
C-1014	ROAD SECTION EXHIBIT STA. 72843+65 TO STA. 72853+25
C-1015	ROAD SECTION EXHIBIT STA. 72867+35 TO STA. 72899+00
PACKAGE 7B: MAINTENANCE AND PROTECTION OF TRAFFIC PLANS	
O-001	NOTES,LEGEND & ABBREVIATIONS
O-002	WZTC TABLE
O-003	WZTC KEY PLAN
O-004	SIGNAGE TABLE - SHEET 1 OF 2
O-005	SIGNAGE TABLE - SHEET 2 OF 2
O-006	NB BYPASS ROUTES
O-007	SB BYPASS ROUTES
O-401	STAGE 8 / JAMES FARLEY BRIDGE DETOUR PLAN
O-402	STAGE 10 DETOUR PLAN
O-403	RAILROAD AVE DETOUR
O-601	STAGE 10 NORTH INTERSECTION DETAIL
O-602	STAGE 10 SOUTH INTERSECTION DETAIL
O-603	STAGE 9 NORTH INTERSECTION DETAIL
O-604	STAGE 9: CROSSOVER DETAIL 1 - SHEET 1 OF 2
O-605	STAGE 9: CROSSOVER DETAIL 1 - SHEET 2 OF 2
O-606	STAGE 9 SOUTH INTERSECTION DETAIL
O-607	STAGE 8 NORTH INTERSECTION DETAIL
O-608	BRIDGE MPT DETAILS/ TYPICAL SECTION - SHEET 1 OF 2
O-609	BRIDGE MPT DETAILS/ TYPICAL SECTION - SHEET 2 OF 2
O-610	STAGE 8: CROSSOVER DETAIL 2 - SHEET 1 OF 2
O-611	STAGE 8: CROSSOVER DETAIL 2 - SHEET 2 OF 2
O-612	STAGE 7: CROSSOVER DETAIL 3 - SHEET 1 OF 2
O-613	STAGE 7: CROSSOVER DETAIL 3 - SHEET 2 OF 2
O-614	STAGE 7 SOUTH INTERSECTION DETAIL
O-615	STAGE 6 NORTH INTERSECTION DETAIL
O-616	STAGE 5: CROSSOVER DETAIL 4 - SHEET 1 OF 2
O-617	STAGE 5: CROSSOVER DETAIL 4 - SHEET 2 OF 2
O-618	STAGE 4: CROSSOVER DETAIL 5 - SHEET 1 OF 2
O-619	STAGE 4: CROSSOVER DETAIL 5 - SHEET 2 OF 2
O-620	NEW MAIN STREET INTERSCETION DETAIL - SHEET 1 OF 2
O-621	NEW MAIN STREET INTERSCETION DETAIL - SHEET 2 OF 2
O-622	STAGE 4 CROSSOVER DETAIL 6 - SHEET 1 OF 2
O-623	STAGE 4 CROSSOVER DETAIL 6 - SHEET 2 OF 2
O-624	STAGE 4 CROSSOVER DETAIL 7 - SHEET 1 OF 2
O-625	STAGE 4 CROSSOVER DETAIL 7 - SHEET 2 OF 2
O-626	STAGE 4 CROSSOVER DETAIL 8 - SHEET 1 OF 2
O-627	STAGE 4 CROSSOVER DETAIL 8 - SHEET 2 OF 2
O-628	STAGE 4 SOUTH INTERSECTION DETAIL
O-629	STAGE 3 NORTH INTERSECTION DETAIL
O-630	STAGE 3 CROSSOVER DETAIL 9 - SHEET 1 OF 2
O-631	STAGE 3 CROSSOVER DETAIL 9 - SHEET 2 OF 2
O-632	STAGE 3 CROSSOVER DETAIL 10 - SHEET 1 OF 2
O-633	STAGE 3 CROSSOVER DETAIL 10 - SHEET 2 OF 2
O-634	STAGE 3 CROSSOVER DETAIL 11 - SHEET 1 OF 2
O-635	STAGE 3 CROSSOVER DETAIL 11 - SHEET 2 OF 2
O-636	STAGE 3 SOUTH INTERSECTION DETAIL
O-637	STAGE 2 NORTH INTERSECTION DETAIL - SHEET 1 OF 2
O-638	STAGE 2 NORTH INTERSECTION DETAIL - SHEET 1 OF 2

O-639	STAGE 2 CROSSOVER DETAIL 12 - SHEET 1 OF 2
O-640	STAGE 2 CROSSOVER DETAIL 12 - SHEET 2 OF 2
O-641	STAGE 1 CROSSOVER DETAIL 13 - SHEET 1 OF 2
O-642	STAGE 1 CROSSOVER DETAIL 13 - SHEET 2 OF 2
O-700	HDD 124
O-701	SPLICE VAULT 245A
O-702	SPLICE VAULT 246 & HDD 126 ENTRY PIT
O-703	HDD 126 EXIT PIT
O-704	SPLICE VAULT 246A
O-705	HDD 127 - SHEET 1 OF 2
O-706	HDD 127 - SHEET 2 OF 2
O-707	KENNEDY DRIVE DETAIL
O-708	SV 247 & HDD 129 ENTRY
O-709	HDD 129 EXIT& HDD 131 ENTRY BUSINESS PARKING
O-710	HDD 131 EXIT PIT
O-711	HDD 131 PULLBACK
O-712	SPLICE VAULT 248
O-713	HDD 132 ENTRY PIT
O-714	HDD 132 EXIT PIT
O-715	SPLICE VAULT 249A
O-716	SPLICE VAULT 250
O-801	SPLICE VAULT 245A PEDESTRIAN DETOUR
O-802	HDD 126 ENTRY PIT & SPLICE VAULT 246 PEDESTRIAN DETOUR
O-803	HDD 127 EXIT PEDESTRIAN DETOUR
O-804	HDD 131 EXIT PIT & HDD 132 ENTRY PIT & SV 248 PEDESTRIAN DETOUR

A

B

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CHAMPLAIN HUDSON POWER EXPRESS  
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W:  
ROCKLAND  
SHEET INDEX-SHEET 1 OF 2

KIEWIT PROJECT NO.	21162
TT PROJECT NO.	204-3701
DRAWING NO.	G-001
DRAWN BY:	RB
DESIGNED BY:	AC
APPROVED BY:	JL
SCALE	AS SHOWN
DATE	04/14/2023
SH.NO.	-- OF --

PACKAGE 7B: STRUCTURAL DETAILS	
S-700	SPLICE VAULT PLAN AND ELEVATION
S-701	SPLICE VAULT SECTION AND DETAILS
S-702	SPLICE VAULT ANCHOR AND EMBED DETAILS
S-703	SPLICE VAULT DETAILS
S-705	STRUCTURAL GENERAL NOTES AND ABBREVIATIONS
S-720	REINFORCING TRAY OVER UTILITIES
S-721	REINFORCING TRAY DETAILS
S-730	TRANSITION VAULT PLAN AND ELEVATION
S-731	TRANSITION VAULT SECTION AND DETAILS
S-732	TRANSITION VAULT ANCHOR AND EMBED DETAILS
S-790	BRIDGE ATTACHMENT - BRIDGE NO. 9 PLAN AND ELEVATION
S-791	BRIDGE ATTACHMENT - BRIDGE NO. 9 SECTION AND DETAILS I
S-792	BRIDGE ATTACHMENT - BRIDGE NO. 9 SECTION AND DETAILS II
S-793	BRIDGE ATTACHMENT - BRIDGE NO. 9 ABUTMENT SECTION AND DETAILS
S-794	BRIDGE ATTACHMENT - BRIDGE NO. 9 ABUTMENT TRANSITION DETAILS
S-795	BRIDGE ATTACHMENT - BRIDGE NO. 9 APPROACH SLAB REINFORCEMENT
S-796	BRIDGE ATTACHMENT - BRIDGE NO. 9 APPROACH SLAB SECTION AND DETAILS
PACKAGE 7B: TRAFFIC SIGNALS	
T-101	SIGNAL R-9 ROUTE 9W & E MAIN ST/W MAIN ST NON-INTRUSIVE DETECTION SYSTEM
T-102	SIGNAL R-116 ROUTE 9W & CENTRAL DR (ROUTE 210) NON-INTRUSIVE DETECTION SYSTEM
T-103	SIGNAL R-120 ROUTE 9W & FILORS LN NON-INTRUSIVE DETECTION SYSTEM
T-104	SIGNAL R-209 ROUTE 9W & HOLT DR NON-INTRUSIVE DETECTION SYSTEM
T-105	SIGNAL R-8 ROUTE 9W & RAILROAD AVE NON-INTRUSIVE DETECTION SYSTEM
T-106	SIGNAL R-172 ROUTE 9W & HILLSIDE AVE NON-INTRUSIVE DETECTION SYSTEM
T-107	SIGNAL R-6 ROUTE 9W & WESTSIDE AVE NON-INTRUSIVE DETECTION SYSTEM
T-108	SIGNAL R-39 ROUTE 9W & NEW MAIN ST NON-INTRUSIVE DETECTION SYSTEM
T-109	SIGNAL R-208 RT 9W & SHORT CLOVE RD (N CONNECTING TO RIVERSIDE AVE) NON-INTRUSIVE DETECTION SYSTEM
T-110	SIGNAL R-35 RT 9W & SHORT CLOVE RD (S CONNECTING TO HAVERSTRAW RD) NON-INTRUSIVE DETECTION SYSTEM
T-111	SIGNAL R-98 ROUTE 9W & ROUTE 304 NON-INTRUSIVE DETECTION SYSTEM
T-112	SIGNAL R-164 ROUTE 9W & COUNTRY RIDGE RD/LEIF BLVD NON-INTRUSIVE DETECTION SYSTEM
T-113	SIGNAL R-8 ROUTE 9W & RAILROAD AVE TEMPORARY SIGNAL

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B

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SEGMENT 12 (PACKAGE 7B) - ROUTE 9W:  
ROCKLAND  
SHEET INDEX-SHEET 2 OF 2

DRAWN BY:	RB	DESIGNED BY:	AC	APPROVED BY:	JL	SCALE	AS SHOWN	DATE	04/14/2023
						REV. NO.	F	SH.NO.	-- OF --

KIEWIT PROJECT NO.	21162
TT PROJECT NO.	204-3701
DRAWING NO.	
G-002	



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GENERAL NOTES:

1. THE PLANS SHOW SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES FROM FIELD LOCATION AND RECORD MAPPING, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE DIFFERENT FROM THAT SHOWN OR MAY NOT BE SHOWN, AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL, OR BLAST, CALL U.F.P.O. 1-(800)-962-7962 TOLL FREE.
2. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER. CHANGES TO THE PLAN SHALL BE DONE IN ACCORDANCE WITH THE EM&CP SECTION 3.2.6.
3. THE CONTRACTOR SHALL RESTORE LAWNS, DRIVEWAYS, CULVERTS, SIGNS AND OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD A CONDITION AS BEFORE BEING DISTURBED AS DETERMINED BY THE ENGINEER.
4. THE CONTRACTOR AND/OR CERTIFICATE HOLDER SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING THE COST OF ALL CONSTRUCTION PERMITS, INSPECTIONS, CERTIFICATES, ETC. AND SHALL COMPLY WITH ALL REQUIRED PERMITS.
5. ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES, AND REGULATIONS.
6. ALL PROPOSED UTILITIES AND APPURTENANCES TO BE CONSTRUCTED IN COMPLIANCE WITH THE LOCAL MUNICIPALITIES' CODES AND REGULATIONS GOVERNING THE INSTALLATION OF SUCH UTILITIES.
7. THE ENGINEER RESERVES THE RIGHT TO EXAMINE ANY WORK DONE ON THIS PROJECT AT ANY TIME TO DETERMINE THE CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OF THIS PROJECT.
8. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS.
10. THE CONTRACTOR SHALL:
  - A. VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
  - B. EXAMINE THE SITE AND INCLUDE IN HIS WORK THE EFFECT OF ALL EXISTING CONDITIONS ON THE WORK.
  - C. PROVIDE AND INSTALL ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH RECOGNIZED GOOD STANDARD PRACTICE.
11. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISIONS OF NEW YORK STATE INDUSTRIAL CODE RULE 23 AND OSHA REGULATIONS FOR CONSTRUCTION. SHEET PILING SHALL BE DESIGNED AND SEALED BY A NEW YORK STATE PROFESSIONAL ENGINEER. WHERE WITHIN RAIL ROAD ROW, ANY EXCAVATION AND SHORING SHALL BE DESIGNED TO MINIMUM CSX AND AREMA REQUIREMENTS.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK IN CONFORMANCE WITH REFERENCE SECTION 4.4.6 DEWATERING METHODS IN THE EM&CP. CONTRACTOR SHALL MAINTAIN EXISTING SITE DRAINAGE PATTERNS THROUGHOUT CONSTRUCTION UNLESS OTHERWISE SHOWN ON THE PLANS.
13. MAINTAIN FLOW FOR ALL EXISTING UTILITIES.
14. ALL FRAMES/COVERS WITHIN PAVED AREAS SHALL HAVE THE TOPS SET FLUSH WITH THE EXISTING PAVEMENT GRADE. IN LANDSCAPED AREAS, ALL FRAMES SHALL BE 0.1' ABOVE GRADE.
15. TEMPORARY PAVEMENT SHALL BE PLACED WITHIN 48 HOURS OF COMPLETION OF BACKFILL OPERATIONS WITHIN THE EXISTING PAVEMENT LIMITS.
16. CONTRACTOR SHALL MAINTAIN ALL TRAFFIC IN ALL AREAS IN ACCORDANCE WITH THE NYSDOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
17. ALL EXCAVATIONS SHALL BE PROTECTED AT THE END OF EACH WORK DAY PER OSHA AND NYSDOT REQUIREMENTS.
18. WITHIN NYSDOT ROW AND TOWN/COUNTY ROADS, ALL OPEN EXCAVATIONS TO BE PROTECTED BY CONCRETE BARRIERS OR BE COVERED BY A STEEL PLATE, 3/4" THICK MINIMUM. A SINGLE PLATE SHOULD COVER THE ENTIRE EXCAVATION AND HAVE ENOUGH BEARING ON SURROUNDING SURFACES TO SUPPORT A VEHICLE.
19. CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO EXISTING UTILITIES. UTILITIES DAMAGED BY CONTRACTOR SHALL BE IMMEDIATELY REPAIRED BY CONTRACTOR AT THE CONTRACTOR'S EXPENSE. IF DURING EXCAVATION PREVIOUSLY DAMAGED UTILITIES ARE UNCOVERED, CONTRACTOR SHALL DOCUMENT THE DAMAGE AND REPORT DAMAGE TO THE APPROPRIATE OWNER.
20. DEPTH OF BURY FOR EXISTING CABLED UTILITIES FIBER / ELECTRICAL / TELECOM AND WATERLINES UNKNOWN. ASSUMED DEPTH OF BURY FOR CABLED UTILITIES IS 30" UNLESS OTHERWISE SHOWN. ASSUMED DEPTH OF BURY FOR WATERLINES IS 5' UNLESS OTHERWISE SHOWN.
21. CONTRACTOR TO COORDINATE ALL DRIVEWAY CROSSINGS WITH THE PROPERTY OWNERS PRIOR TO EXCAVATING. ACCESS TO ALL DRIVEWAYS FOR THE RESIDENTS AND COMMERCIAL PROSPERITIES, WILL NEED TO BE MAINTAINED DURING THE PROJECT. ALL EXCAVATIONS IN THE ENTRANCES/DRIVEWAYS WILL NEED TO BE BACKFILLED AT THE END OF EACH WORKDAY, OR STEEL PLATES SHALL BE INSTALLED TO ALLOW ACCESS DURING CONSTRUCTION. REFER TO THE EM&CP FOR EMERGENCY ACCESS MANAGEMENT PLAN.
22. ALL WORK WITHIN AGRICULTURAL LANDS WILL BE PERFORMED IN COMPLIANCE WITH APPLICABLE NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS (NYSdam) GUIDANCE INCLUDING "NYSdam GUIDELINES FOR CONSTRUCTION MITIGATIONS FOR AGRICULTURAL LANDS IN AGRICULTURAL AREAS". RESTORATION WORK WILL FOLLOW APPLICABLE SECTIONS OF NYSdam GUIDANCE "FERTILIZING LIME, AND SEEDING RECOMMENDATIONS FOR RESTORATION OF CONSTRUCTION PROJECTS ON FARMLAND IN NYS".
23. WORKING IN WETLANDS: IN GENERAL, STOCKPILING IN WETLANDS AND GRADING WETLAND SOILS FOR ANY ROADS, WORK AREAS, OR PADS IS PROHIBITED. IN ORDER TO ACHIEVE DESIGN GRADES FOR CONSTRUCTION OPERATIONS, EITHER 1) TIMBER MATTING WILL BE LAYERED (STACKED), OR 2) TOPSOIL WILL BE STRIPPED AND STOCKPILED OUTSIDE OF WETLAND AREAS, GEOTEXTILE FABRIC WILL BE PLACED UNDER FILL PER EM&CP REQUIREMENTS AND APPROVED DETAILS. THE CONTOURS SHOWN WITHIN WETLAND AREAS IN THESE PLANS DEPICT THE DIFFERENCE BETWEEN EXISTING AND PROPOSED ELEVATIONS AND ARE NOT INTENDED TO REPRESENT STOCKPILING IN WETLANDS OR GRADING EXISTING WETLAND SOILS. FOR SPECIFIC REQUIREMENTS FOR WORKING IN WETLAND AREAS INCLUDING REQUIREMENTS FOR EXCAVATION AND STOCKPILING, REFER TO EM&CP SECTION 4.10.2.
24. AS CONSTRUCTION, OPERATIONAL, AND SAFETY REQUIREMENTS ALLOW; THE CONTRACTOR HAS THE OPTION TO REDUCE IMPACTS (INCLUDING WITHIN WETLAND AREAS) BY 1) REDUCING THE AREA OF TIMBER MATTING, WORK AREAS, OR ACCESS ROADS DEPICTED IN THESE PLANS, AND 2) INCREASING THE LONGITUDINAL AND TRANSVERSE SLOPES OF ROADS AND WORK AREAS.
25. SERVICE CONNECTIONS TO BE FIELD LOCATED PRIOR TO CONSTRUCTION.

EROSION CONTROL NOTES:

1. SEE C-400 SERIES OF SHEETS FOR EROSION AND SEDIMENT CONTROL SHEETS.
2. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES.
3. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND THE EM&CP DOCUMENTS DURING CONSTRUCTION OPERATIONS.
4. NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED. (WETLAND PROTECTION FENCE, SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCE)
5. SITE DISTURBANCE SHALL NOT EXCEED FIVE (5) ACRES OF SOIL AT ANY ONE TIME WITHOUT PRIOR WRITTEN AUTHORIZATION FROM NYSDEC DIVISION OF WATER.
6. ALL EXPOSED AREAS SHALL BE SEEDED AND MULCHED AS SPECIFIED WITHIN 14 DAYS OF FINAL GRADING. "IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED, THE APPLICATION OF SOIL STABILIZATION MEASURES MUST BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN FOURTEEN (14) DAYS FROM THE DATE THE CURRENT SOIL DISTURBANCE ACTIVITY CEASED."
7. INACTIVE PORTIONS OF THE SITE ARE TO BE SEEDED AND MULCHED AS SPECIFIED WITHIN 14 DAYS. "FOR DISTURBED WETLAND AND SENSITIVE AREAS, AREA TO BE RESTORED IN ACCORDANCE WITH THE EM&CP"
8. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) DAYS OR MORE FREQUENTLY IF REQUIRED. ALL MAINTENANCE REQUIRED BY INSPECTION SHALL COMMENCE WITHIN 24 HOURS AND BE COMPLETED WITHIN 48 HOURS OF REPORT.
9. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
10. GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
11. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY FOLLOWING SITE INSPECTION. THE SWPPP AND/OR ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES IF THE INSPECTOR DEEMS NECESSARY.
12. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
13. AT THE END OF EACH WORK DAY DISTURBED SOILS ARE TO BE REGRADED TO DRAIN INTO THE TEMPORARY DIVERSION SWALES AND DISCHARGES FROM DEWATERING ACTIVITIES ARE TO BE DIRECTED INTO CATCH BASINS OR SWALES. WATER WILL BE PUMPED FROM DEWATERING OPERATIONS INTO A TEMPORARY STRAW BALE OR SILT FENCE BARRIER OR FILTER BAG TO SETTLE SUSPENDED SILT MATERIAL PRIOR TO DISCHARGE. DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO STATE AND/OR FEDERALLY REGULATED STREAMS AND STORMWATER SYSTEMS WILL BE AVOIDED.
14. CONCRETE WASHOUTS DEPICTED ON PLANS ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD LOCATE WASHOUTS AS NECESSARY. FIELD LOCATED WASHOUTS SHALL BE LOCATED CONSTRUCTED IN ACCORDANCE WITH THE EM&CP AND SHALL BE A MINIMUM OF 100' FROM ADJACENT WETLANDS AND 200' FROM ANY EXISTING WELLS.

HDD PLAN & PROFILE NOTES:

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

DISTURBANCE NOTES:

1. THE PROPOSED DISTURBANCE FOR THE TRENCH WILL BE LIMITED TO THE WIDTH OF THE TRENCH SECTIONS DEPICTED ON C-621 INCLUDING THE OPTION TO BENCH OR SLOPE TRENCH WHERE SPACE IS AVAILABLE AND TRENCH IS NOT LOCATED IN A ROADWAY OR IN PAVEMENT.
2. TEMPORARY ACCESS AND WORK AREAS DEPICTED IN THESE PLANS SHALL BE RESTORED TO EXISTING CONDITION PER THE PROJECT RESTORATION NOTES AND DETAILS UNLESS THE CERTIFICATE HOLDER (CHPE LLC) ESTABLISHES A DPS APPROVED AGREEMENT WITH A PROPERTY OWNER TO DO OTHERWISE. EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN DEVELOPED TO INCORPORATE THESE POTENTIALLY DISTURBED AREAS.



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ISSUED FOR PERMITTING

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F	04/14/2023	FINAL SUBMISSION	RB	JL
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	RB	JL
D	11/16/2022	DRAFT FINAL SUBMISSION	RB	JL
C	05/20/2022	60% DESIGN SUBMISSION	RB	JL
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BV	TK
A	02/18/2022	PRELIMINARY PROGRESS	BV	TK
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP

CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND GENERAL NOTES				KIEWIT PROJECT NO. 21162 TT PROJECT NO. 204-3701 DRAWING NO. <b>G-003</b>	
DRAWN BY:	RB	DESIGNED BY:	AC	APPROVED BY:	JL
SCALE	AS SHOWN	DATE	04/14/2023	REV. NO.	F
		SH.NO.	--	OF	--



NYSDOT NOTES

1. MAINTAIN EXISTING GUIDE RAIL, MEDIAN BARRIER, AND BRIDGE RAIL. WHEN CONSTRUCTION OPERATIONS REQUIRE THE TEMPORARY REMOVAL OF EXISTING BRIDGE RAIL, GUIDE RAIL OR MEDIAL BARRIER; OR WHEN EXISTING RAIL WILL BE REMOVED AND REPLACED WITH NEW RAIL, THE CONTRACTOR SHALL SCHEDULE OPERATIONS TO MINIMIZE THE TIME PERIOD THAT RAIL IS NOT INSTALLED.
2. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, GUIDE RAIL OR MEDIAN BARRIER SHALL BE REPLACED OR THE LOCATION OTHERWISE PROTECTED WITHIN 14 CALENDAR DAYS. BRIDGE RAIL SYSTEMS SHALL BE MAINTAINED IN SERVICE AT ALL TIMES ON ANY STRUCTURE ON WHICH VEHICLE OR PEDESTRIAN TRAFFIC IS MAINTAINED, UNLESS A TEMPORARY BARRIER IS INSTALLED, OR OTHER MEANS ARE USED TO ENSURE THAT VEHICLES, BICYCLISTS AND PEDESTRIANS ARE NOT EXPOSED TO THE UNPROTECTED EDGE OF A BRIDGE.
3. DURING NON-WORK HOURS WHEN TRAFFIC IS BEING MAINTAINED ON THE FACILITY, ALL TEMPORARY ENDS (FREE ENDS) OF GUIDE RAIL, MEDIAN BARRIER AND BRIDGE RAIL SHALL BE TEMPORARILY TERMINATED AND MARKED WITH A CHANNELIZING DRUM OR OBJECT MARKER EQUIPPED WITH A TYPE OF FLASHING WARNING LIGHT. CORRUGATED BEAM GUIDE RAIL AND MEDIAN BARRIER, AND HEAVY-POST, BLOCKED-OUT, CORRUGATED BEAM GUIDE RAIL AND MEDIAN BARRIER SHALL BE TEMPORARILY TERMINATED BY HAVING THE EXPOSED ENDS (FREE ENDS) DROPPED TO THE GROUND AND PINNED.
4. THE APPROACH ENDS OF BOX BEAM GUIDE RAIL, MEDIAN BARRIER AND BRIDGE RAIL SHALL BE TEMPORARILY TERMINATED WITH BOX BEAM GUIDE RAIL END ASSEMBLIES UTILIZING TWO SPLICE PLATES AND THE PROPER NUMBER OF BOLTS PER CONNECTION. NO POSTS FOR ANCHORAGES WILL BE REQUIRED. SPECIAL TEMPORARY SPLICE PLATES ARE REQUIRED TO ADAPT BOX BEAM GUIDE RAIL END ASSEMBLIES TO BOX BEAN MEDIAN BARRIERS.
5. DURING ANY OVERNIGHT PERIOD WHEN EXISTING GUIDE RAIL OR MEDIAN BARRIER IS TEMPORARILY REMOVED, THE CONTRACTOR SHALL INSTALL CHANNELIZING DEVICES IN THE LOCATION WHERE THE GUIDE RAIL OR MEDIAN BARRIER WAS REMOVED IN ACCORDANCE WITH 619-3.02J.6. REMOVED EXISTING GUIDE RAIL OR MEDIAN BARRIER.
6. GUIDERAIL REPLACEMENT TYPE TO BE COORDINATE WITH NYSDOT.
7. THE PLANS DEPICT AREAS OF EXPANDED LIMIT OF WORK AT EXISTING CULVERTS THAT WILL BE EVALUATED WITH NYSDOT AND THE CERTIFICATE HOLDERS FOR POTENTIAL REPLACEMENT OR REPAIR. IF ANY REPAIRS OR REPLACEMENTS ARE DETERMINED, THE WORK WILL BE DONE IN ACCORDANCE WITH NYSDOT SPECIFICATIONS.
8. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISIONS OF NEW YORK STATE INDUSTRIAL CODE RULE 23 AND OSHA REGULATIONS FOR CONSTRUCTION. SHEET PILING SHALL BE DESIGNED AND SEALED BY A NEW YORK STATE PROFESSIONAL ENGINEER.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK AND SHALL SUBMIT A DEWATERING PLAN. CONTRACTOR SHALL MAINTAIN EXISTING SITE DRAINAGE PATTERNS THROUGHOUT CONSTRUCTION UNLESS OTHERWISE SHOWN ON THE PLANS.
10. MAINTAIN FLOW FOR ALL EXISTING UTILITIES.
11. ALL FRAMES/COVERS WITHIN PAVED AREAS SHALL HAVE THE TOPS SET FLUSH WITH THE EXISTING PAVEMENT GRADE. IN LANDSCAPED AREAS, ALL FRAMES SHALL BE 0.1' ABOVE GRADE.
12. TEMPORARY PAVEMENT SHALL BE PLACED WITHIN 48 HOURS OF COMPLETION OF BACKFILL OPERATIONS WITHIN THE EXISTING PAVEMENT LIMITS.
13. CONTRACTOR SHALL MAINTAIN ALL TRAFFIC IN ALL AREAS IN ACCORDANCE WITH THE NYSDOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
14. ALL EXCAVATIONS SHALL BE PROTECTED AT THE END OF EACH WORK DAY PER OSHA AND NYSDOT REQUIREMENTS.
15. WITHIN NYSDOT ROW ALL OPEN EXCAVATIONS TO BE PROTECTED BY CONCRETE BARRIERS OR BE COVERED BY A STEEL PLATE, 3/4" THICK MINIMUM. A SINGLE PLATE SHOULD COVER THE ENTIRE EXCAVATION AND HAVE ENOUGH BEARING ON SURROUNDING SURFACES TO SUPPORT A VEHICLE.
16. CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO EXISTING UTILITIES. UTILITIES DAMAGED BY CONTRACTOR SHALL BE IMMEDIATELY REPAIRED BY CONTRACTOR AT THE CONTRACTOR'S EXPENSE. IF DURING EXCAVATION PREVIOUSLY DAMAGED UTILITIES ARE UNCOVERED, CONTRACTOR SHALL DOCUMENT THE DAMAGE AND REPORT DAMAGE TO THE APPROPRIATE OWNER
17. DEPTH OF BURY FOR EXISTING CABLED UTILITIES FIBER/ELECTRICAL/TELECOM AND WATERLINES UNKNOWN. ASSUMED DEPTH OF BURY FOR CABLED UTILITIES IS 30" UNLESS OTHERWISE SHOWN. ASSUMED DEPTH OF BURY FOR WATERLINES IS 5' UNLESS OTHERWISE SHOWN.
18. CONTRACTOR TO COORDINATE ALL DRIVEWAY CROSSINGS WITH THE PROPERTY OWNERS PRIOR TO EXCAVATING. ACCESS TO ALL DRIVEWAYS FOR THE RESIDENTS AND COMMERCIAL PROSPERITIES, WILL NEED TO BE MAINTAINED DURING THE PROJECT. ALL EXCAVATIONS IN THE ENTRANCES/DRIVEWAYS WILL NEED TO BE BACKFILLED AT THE END OF EACH WORKDAY, OR STEEL PLATES SHALL BE INSTALLED TO ALLOW ACCESS DURING CONSTRUCTION. REFER TO THE EM&CP FOR EMERGENCY ACCESS MANAGEMENT PLAN.
19. A MEETING WITH A NYSDOT GEOLOGIST WILL BE REQUIRED PRIOR TO ANY BLASTING WITHIN 200' OF NYS ROUTE 9W. THIS MEETING WILL BE HELD WITHIN TENS DAYS FOLLOWING SUBMISSION AND ACCEPTANCE OF A PRELIMINARY BLAST PLAN BY THE NYSDOT. REFERENCE NYSDOT GEOTECHNICAL ENGINEERING MANUAL – 22 (GEM 22) PROCEDURES FOR BLASTING.

TRAFFIC CONTROL NOTES

1. REFER TO O-001

A

B

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



















































CHAMPLAIN HUDSON POWER EXPRESS  
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W:  
ROCKLAND  
PACKAGE SPECIFIC NOTES

DRAWN BY:	RB	DESIGNED BY:	AC	APPROVED BY:	JL	SCALE	AS SHOWN	DATE	04/14/2023
						REV. NO.	F	SH.NO.	-- OF --

KIEWIT PROJECT NO.	21162
TT PROJECT NO.	204-3701
DRAWING NO.	G-004



LEGEND & ABBREVIATIONS

- 

EXIST. FIBER OPTIC LINE HANDHOLE

EXIST. FIBER OPTIC LINE PEDESTAL

EXIST. FIBER OPTIC LINE DOGHOUSE

EXIST. FIBER OPTIC LINE MANHOLE

EXIST. FIBER OPTIC LINE VAULT

EXIST. FIBER OPTIC LINE BORE PIT

EXIST. FIBER OPTIC LOCK BOX

EXIST. GROUND ROD

EXIST. FIBER OPTIC MARKER POST

EXIST. FIBER OPTIC BOX

EXIST. FIBER STORAGE

EXIST. FIRE HYDRANT

EXIST. WATER VALVE

EXIST. WATER MANHOLE

EXIST. WATER MARKER

EXIST. SANITARY SEWER MANHOLE

EXIST. SANITARY SEWER VENT

EXIST. STORM SEWER MANHOLE

EXIST. STORM SEWER CATCH BASIN

EXIST. CULVERT INVERT

EXIST. GAS MANHOLE

EXIST. GAS VALVE

EXIST. GAS MARKER

EXIST. GAS PIPELINE VENT

EXIST. LIGHT POLE

EXIST. UTILITY POLE

EXIST. ELEC. POLE

EXIST. TRAFFIC LIGHT

EXIST. ELEC. METER

EXIST. ELEC. MANHOLE

EXIST. ELEC. TRANSFORMER

EXIST. ELEC. VAULT

EXIST. ELEC. HANDHOLE

EXIST. ELEC. PEDESTAL/BOX

EXIST. ELEC. MARKER POST

EXIST. ELEC. GUY ANCHOR/WIRE

EXIST. TELE. RISER/BOX

EXIST. TELE. MANHOLE

EXIST. TELE. HANDHOLE

EXIST. TELE. VAULT

EXIST. TELE. PEDESTAL

EXIST. TELE. DOGHOUSE

EXIST. TELE. MARKER POST

EXIST. TELE. JUNCTION BOX

EXIST. TRAFFIC SIGNAL BOX

EXIST. CELL TOWER

EXIST. CABLE BOX

EXISTING MANHOLE UNKNOWN

EXISTING UTILITY BOX UNKNOWN

EXISTING ANTENNA

EXISTING CAPPED IRON ROD




































































EXISTING IRON PIPE

EXISTING CONCRETE MONUMENT

EXISTING POST

EXISTING REFLECTOR MARKER

EXISTING SYMBOL

- 





SCALE: 1" = 2000'



TETRA TECH ENGINEERING AND SURVEYING P.C.  
(A NEW YORK PROFESSIONAL CORPORATION)

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ISSUED FOR PERMITTING

----	----	----	----	----
F	04/14/2023	FINAL SUBMISSION	RB	JL
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	RB	JL
D	11/16/2022	DRAFT FINAL SUBMISSION	RB	JL
C	05/20/2022	60% DESIGN SUBMISSION	RB	JL
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BV	TK
A	02/18/2022	PRELIMINARY PROGRESS	BV	TK
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP

CHAMPLAIN HUDSON POWER EXPRESS  
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W:  
ROCKLAND  
PLAN AND PROFILE KEY MAP

DRAWN BY:	RB	DESIGNED BY:	AC	APPROVED BY:	JL	SCALE	AS SHOWN	DATE	04/14/2023
						REV. NO.	F	SH. NO.	OF --

KIEWIT PROJECT NO.	21162
TT PROJECT NO.	204-3701
DRAWING NO.	G-006



STRUCTURE TABLE					
STRUCTURE NAME	STATION	LAT	LONG	NORTHING	EASTING
TRANSITION VAULT 3 w/ LINK BOX	72495+61.5	41.24217315	-73.98182741	877849.9	634619.2
SPLICE VAULT 245	72527+56.9	41.23429521	-73.98491464	874974.7	633787.2
SPLICE VAULT 245A	72538+41.1	41.23166332	-73.98606593	874014.0	633476.3
SPLICE VAULT 246	72560+05.1	41.22631574	-73.98655875	872064.9	633352.2
SPLICE VAULT 246B w/ LINK BOX	72583+91.3	41.22044174	-73.98599161	869925.7	633520.9
SPLICE VAULT 246A	72600+79.6	41.2159076	-73.98647064	868273.0	633398.9
SPLICE VAULT 247	72634+00.4	41.20693928	-73.98496117	865008.1	633833.5
SPLICE VAULT 248	72676+60.9	41.19737362	-73.97841023	861533.8	635656.8
SPLICE VAULT 248A w/ LINK BOX	72712+36.4	41.19315747	-73.96722574	860016.4	638744.0
SPLICE VAULT 249	72730+02.5	41.1898842	-73.96259103	858831.7	640026.8
SPLICE VAULT 249A	72766+38.8	41.18192692	-73.95469052	855946.2	642219.3
SPLICE VAULT 250	72785+21.5	41.17936803	-73.94881178	855024.1	643843.4
SPLICE VAULT 250A w/ LINK BOX	72810+93.6	41.17463295	-73.94474492	853306.1	644973.8
SPLICE VAULT 251	72843+43.7	41.16947075	-73.93906504	851435.4	646549.5
SPLICE VAULT 251A	72867+13.9	41.16535468	-73.93266867	849947.2	648320.2
TRANSITION VAULT 4 w/ LINK BOX	72898+85.2	41.15793814	-73.92755463	847254.4	649745.9

FIBER SPLICE LOCATIONS					
STRUCTURE NAME	STATION	LAT	LONG	NORTHING	EASTING
SPLICE VAULT 247	72634+00.4	41.20693928	-73.98496117	865008.1	633833.5
SPLICE VAULT 250	72785+21.5	41.17936803	-73.94881178	855024.1	643843.4

A

B

File: C:\P\WORK\KING\RE\1\0\5\141\21162\_7B\_G-007.DWG Saved: 4/10/2023 6:11:04 PM Plotted: 4/10/2023 6:01:59 PM Current User: Wager, Mike LastSavedBy: Mike Wager



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ISSUED FOR PERMITTING

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A	02/18/2022	PRELIMINARY PROGRESS	BV	TK
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP

CHAMPLAIN HUDSON POWER EXPRESS  
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W:  
ROCKLAND  
SPLICE, LINK BOX, FIBER OPTIC HANDHOLE  
LOCATION TABLES

DRAWN BY:	RB	DESIGNED BY:	AC	APPROVED BY:	JL	SCALE	AS SHOWN	DATE	04/14/2023
						REV. NO.	F	SH.NO.	-- OF --

KIEWIT PROJECT NO.	21162
TT PROJECT NO.	204-3701
DRAWING NO.	

G-007



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	Not Applicable for this Segment
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	Not Applicable for this Segment
Converter Station and Substation Requirements	Not Applicable for this Segment
Right of Ways and Easements	4.7
Right of Way Clearing	4.8 (See also Section 8)
Building and Structure Removal	4.9
Access Roads	4.10
Driveway Access During Construction	4.10.1
Access Through Wetlands or Streams	4.10.2
Access Through Agricultural Lands	Not Applicable for this Segment
Drain Lines and Under Drains Within Agricultural Lands	4.10.4
Soil Management Plan	4.11 and Appendix L
Culvert Replacement	4.12

Table 4.1 - Segment 12 HDD Locations				
HDD #	Sheet	Length (linear feet)	Station (Approximate - see Drawings for Details)	Purpose
124	C-100 - C-101	815	STA 72496+00 to 72504+15	Stream, roadway, and utility crossing
126	C-105 - C-106	2,175	STA 72561+20 to 72582+95	Utility crossing
127	C-108 - C-109	1,460	STA 72611+00 to 72625+60	Utility and roadway crossing
129	C-109 - C-111	1,660	STA 72637+85 to 72654+45	Stream, roadway, and utility crossing
131	C-111 - C-112	2,140	STA 72655+40 to 72676+80	Roadway crossing
132	C-112 - C-114	1,840	STA 72679+00 to 72697+40	Utility and roadway crossing

Table 4.2 - Property Owners within 100 feet of HDD Operations			
HDD #	Parcel Number	Sheet	Location (Approximate – see Drawings for Details)
124	15.04-3-18	C-100 - C-101	STA 72496+00 to 72504+15
124	15.04-3-14	C-100 - C-102	STA 72496+00 to 72504+16
124	15.02-4-49	C-100 - C-103	STA 72496+00 to 72504+17
124	15.02-4-46	C-100 - C-104	STA 72496+00 to 72504+18
124	15.02-4-50	C-100 - C-105	STA 72496+00 to 72504+19
124	15.02-4-59	C-100 - C-106	STA 72496+00 to 72504+20
124	15.02-4-45	C-100 - C-107	STA 72496+00 to 72504+21
126	20.07-3-64	C-105 - C-106	STA 72561+20 to 72582+95
126	20.07-3-65	C-105 - C-107	STA 72561+20 to 72582+96
126	20.07-2-13	C-105 - C-108	STA 72561+20 to 72582+97
126	20.07-2-82	C-105 - C-109	STA 72561+20 to 72582+98
126	20.07-2-14	C-105 - C-110	STA 72561+20 to 72582+99
126	20.07-2-15	C-105 - C-111	STA 72561+20 to 72582+100
126	20.07-3-63	C-105 - C-112	STA 72561+20 to 72582+101
126	20.07-3-62	C-105 - C-113	STA 72561+20 to 72582+102
126	20.07-3-60	C-105 - C-114	STA 72561+20 to 72582+103
126	20.07-3-57	C-105 - C-115	STA 72561+20 to 72582+104
126	20.07-3-59	C-105 - C-116	STA 72561+20 to 72582+105
126	20.07-3-58	C-105 - C-117	STA 72561+20 to 72582+106
126	20.11-2-20	C-105 - C-118	STA 72561+20 to 72582+107
126	20.11-2-19	C-105 - C-119	STA 72561+20 to 72582+108
126	20.11-2-18	C-105 - C-120	STA 72561+20 to 72582+109
126	20.07-2-20	C-105 - C-121	STA 72561+20 to 72582+110
126	20.07-2-19	C-105 - C-122	STA 72561+20 to 72582+111
126	20.07-3-59/1	C-105 - C-123	STA 72561+20 to 72582+112
126	20.07-2-21	C-105 - C-124	STA 72561+20 to 72582+113
126	20.07-2-18	C-105 - C-125	STA 72561+20 to 72582+114
126	20.07-2-16	C-105 - C-126	STA 72561+20 to 72582+115
126	20.11-2-28/26	C-105 - C-127	STA 72561+20 to 72582+116
126	20.11-2-28	C-105 - C-128	STA 72561+20 to 72582+117
126	20.11-2-27	C-105 - C-129	STA 72561+20 to 72582+118
126	20.11-2-25	C-105 - C-130	STA 72561+20 to 72582+119
126	20.11-2-24	C-105 - C-131	STA 72561+20 to 72582+120
126	20.11-2-23	C-105 - C-132	STA 72561+20 to 72582+121
126	20.11-2-22	C-105 - C-133	STA 72561+20 to 72582+122
126	20.11-2-21	C-105 - C-134	STA 72561+20 to 72582+123
126	20.02-11-34	C-105 - C-135	STA 72561+20 to 72582+124
126	20.02-11-35	C-105 - C-136	STA 72561+20 to 72582+125
126	20.02-11-37.1	C-105 - C-137	STA 72561+20 to 72582+126
126	20.02-11-32	C-105 - C-138	STA 72561+20 to 72582+127
126	20.02-11-31./300	C-105 - C-139	STA 72561+20 to 72582+128
126	20.02-11-31./104	C-105 - C-140	STA 72561+20 to 72582+129
126	20.11-2-28./27	C-105 - C-141	STA 72561+20 to 72582+130
126	20.11-2-29	C-105 - C-142	STA 72561+20 to 72582+131
126	20.02-11-30	C-105 - C-143	STA 72561+20 to 72582+132
126	20.11-3-1	C-105 - C-144	STA 72561+20 to 72582+133
126	20.11-3-7	C-105 - C-145	STA 72561+20 to 72582+134
126	20.11-3-6	C-105 - C-146	STA 72561+20 to 72582+135
127	20.15-3-2	C-108 - C-109	STA 72611+00 to 72625+60
127	20.19-7-1	C-108 - C-110	STA 72611+00 to 72625+61
127	20.19-7-49	C-108 - C-111	STA 72611+00 to 72625+62
127	20.19-7-50	C-108 - C-112	STA 72611+00 to 72625+63
127	20.19-7-2.1	C-108 - C-113	STA 72611+00 to 72625+64
127	20.19-1-1	C-108 - C-114	STA 72611+00 to 72625+65
127	20.15-3-1	C-108 - C-115	STA 72611+00 to 72625+66
127	20.19-1-3	C-108 - C-116	STA 72611+00 to 72625+67
127	20.19-1-4	C-108 - C-117	STA 72611+00 to 72625+68
127	20.19-1-7.1	C-108 - C-118	STA 72611+00 to 72625+69
127	20.19-1-5	C-108 - C-119	STA 72611+00 to 72625+70
127	20.19-1-6	C-108 - C-120	STA 72611+00 to 72625+71
127	20.19-1-54	C-108 - C-121	STA 72611+00 to 72625+72

127	20.19-7-42	C-108 - C-122	STA 72611+00 to 72625+73
127	20.19-7-47	C-108 - C-123	STA 72611+00 to 72625+74
127	20.19-7-48	C-108 - C-124	STA 72611+00 to 72625+75
127	20.19-7-46	C-108 - C-125	STA 72611+00 to 72625+76
127	20.19-7-45	C-108 - C-126	STA 72611+00 to 72625+77
127	20.19-7-44	C-108 - C-127	STA 72611+00 to 72625+78
127	20.19-7-43	C-108 - C-128	STA 72611+00 to 72625+79
127	20.19-7-41	C-108 - C-129	STA 72611+00 to 72625+80
127	20.19-6-3	C-108 - C-130	STA 72611+00 to 72625+81
127	20.19-6-1	C-108 - C-131	STA 72611+00 to 72625+82
127	20.19-7-39	C-108 - C-132	STA 72611+00 to 72625+83
127	20.19-7-40	C-108 - C-133	STA 72611+00 to 72625+84
127	20.19-4-13	C-108 - C-134	STA 72611+00 to 72625+85
127	20.19-4-9	C-108 - C-135	STA 72611+00 to 72625+86
127	20.19-4-10	C-108 - C-136	STA 72611+00 to 72625+87
129	26.42-2-1	C-109 - C-111	STA 72637+85 to 72654+45
129	26.42-2-2	C-109 - C-112	STA 72637+85 to 72654+46
129	26.34-1-1	C-109 - C-113	STA 72637+85 to 72654+47
129	26.34-1-2	C-109 - C-114	STA 72637+85 to 72654+48
129	26.34-1-3	C-109 - C-115	STA 72637+85 to 72654+49
129	26.34-2-1	C-109 - C-116	STA 72637+85 to 72654+50
129	26.34-2-2	C-109 - C-117	STA 72637+85 to 72654+51
129	26.07-5-70	C-109 - C-118	STA 72637+85 to 72654+52
129	26.07-4-3	C-109 - C-119	STA 72637+85 to 72654+53
129	26.07-4-4	C-109 - C-120	STA 72637+85 to 72654+54
129	26.07-3-25	C-109 - C-121	STA 72637+85 to 72654+55
129	26.07-3-24	C-109 - C-122	STA 72637+85 to 72654+56
129	26.07-3-1	C-109 - C-123	STA 72637+85 to 72654+57
129	26.07-3-22	C-109 - C-124	STA 72637+85 to 72654+58
129	26.07-3-23	C-109 - C-125	STA 72637+85 to 72654+59
129	26.11-1-12.4	C-109 - C-126	STA 72637+85 to 72654+60
129	26.11-1-12.3	C-109 - C-127	STA 72637+85 to 72654+61
129	26.07-5-71	C-109 - C-128	STA 72637+85 to 72654+62
129	26.07-5-72	C-109 - C-129	STA 72637+85 to 72654+63
131	26.42-2-4	C-111 - C-112	STA 72655+40 to 72676+80
131	26.42-1-11	C-111 - C-113	STA 72655+40 to 72676+81
131	26.42-2-5	C-111 - C-114	STA 72655+40 to 72676+82
131	26.42-2-8	C-111 - C-115	STA 72655+40 to 72676+83
131	26.42-1-10	C-111 - C-116	STA 72655+40 to 72676+84
131	26.42-1-9	C-111 - C-117	STA 72655+40 to 72676+85
131	26.50-1-52	C-111 - C-118	STA 72655+40 to 72676+86
131	26.50-1-54	C-111 - C-119	STA 72655+40 to 72676+87
131	26.50-1-55	C-111 - C-120	STA 72655+40 to 72676+88
131	26.50-1-56	C-111 - C-121	STA 72655+40 to 72676+89
131	26.50-1-57	C-111 - C-122	STA 72655+40 to 72676+90
131	26.50-1-66	C-111 - C-123	STA 72655+40 to 72676+91
131	26.50-1-65	C-111 - C-124	STA 72655+40 to 72676+92
131	26.42-2-10	C-111 - C-125	STA 72655+40 to 72676+93
131	26.42-2-9	C-111 - C-126	STA 72655+40 to 72676+94
131	26.51-1-19	C-111 - C-127	STA 72655+40 to 72676+95
131	26.51-1-58	C-111 - C-128	STA 72655+40 to 72676+96
131	26.51-1-16	C-111 - C-129	STA 72655+40 to 72676+97
131	26.51-1-17	C-111 - C-130	STA 72655+40 to 72676+98
131	26.51-1-18	C-111 - C-131	STA 72655+40 to 72676+99
131	26.50-1-70	C-111 - C-132	STA 72655+40 to 72676+100
131	26.51-1-15	C-111 - C-133	STA 72655+40 to 72676+101
131	26.50-1-68	C-111 - C-134	STA 72655+40 to 72676+102
131	26.50-1-69	C-111 - C-135	STA 72655+40 to 72676+103
131	26.50-1-64	C-111 - C-136	STA 72655+40 to 72676+104
131	26.51-1-60	C-111 - C-137	STA 72655+40 to 72676+105
131	26.51-1-59	C-111 - C-138	STA 72655+40 to 72676+106
131	26.50-1-61	C-111 - C-139	STA 72655+40 to 72676+107
131	26.50-1-63	C-111 - C-140	STA 72655+40 to 72676+108
131	26.50-1-62	C-111 - C-141	STA 72655+40 to 72676+109

131	26.50-1-60	C-111 - C-142	STA 72655+40 to 72676+110
131	26.50-1-59	C-111 - C-143	STA 72655+40 to 72676+111
131	26.50-1-58	C-111 - C-144	STA 72655+40 to 72676+112
131	26.51-1-55	C-111 - C-145	STA 72655+40 to 72676+113
131	26.51-1-56	C-111 - C-146	STA 72655+40 to 72676+114
131	26.51-1-57	C-111 - C-147	STA 72655+40 to 72676+115
131	26.51-1-24	C-111 - C-148	STA 72655+40 to 72676+116
131	26.51-1-25	C-111 - C-149	STA 72655+40 to 72676+117
131	26.51-1-51	C-111 - C-150	STA 72655+40 to 72676+118
131	26.51-1-54	C-111 - C-151	STA 72655+40 to 72676+119
131	26.51-1-52	C-111 - C-152	STA 72655+40 to 72676+120
131	26.51-1-50	C-111 - C-153	STA 72655+40 to 72676+121
131	26.51-1-26	C-111 - C-154	STA 72655+40 to 72676+122
131	26.11-1-12.3	C-111 - C-155	STA 72655+40 to 72676+123
131	26.11-1-12.1	C-111 - C-156	STA 72655+40 to 72676+124
131	26.11-1-12.2	C-111 - C-157	STA 72655+40 to 72676+125
132	26.51-1-34	C-112 - C-114	STA 72679+00 to 72697+40
132	26.16-1-2	C-112 - C-115	STA 72679+00 to 72697+41
132	26.52-1-31	C-112 - C-116	STA 72679+00 to 72697+42
132	26.52-1-30	C-112 - C-117	STA 72679+00 to 72697+43
132	26.52-1-32	C-112 - C-118	STA 72679+00 to 72697+44
132	26.51-1-47	C-112 - C-119	STA 72679+00 to 72697+45
132	26.51-1-46	C-112 - C-120	STA 72679+00 to 72697+46
132	26.51-1-45.1	C-112 - C-121	STA 72679+00 to 72697+47
132	26.51-1-45.2	C-112 - C-122	STA 72679+00 to 72697+48
132	26.51-1-42	C-112 - C-123	STA 72679+00 to 72697+49
132	26.51-1-43	C-112 - C-124	STA 72679+00 to 72697+50
132	26.51-1-44	C-112 - C-125	STA 72679+00 to 72697+51
132	26.51-1-48	C-112 - C-126	STA 72679+00 to 72697+52
132	26.51-1-49	C-112 - C-127	STA 72679+00 to 72697+53
132	26.51-1-50	C-112 - C-128	STA 72679+00 to 72697+54
132	26.51-1-26	C-112 - C-129	STA 72679+00 to 72697+55
132	26.51-1-41	C-112 - C-130	STA 72679+00 to 72697+56
132	26.60-1-1	C-112 - C-131	STA 72679+00 to 72697+57
132	26.60-1-15	C-112 - C-132	STA



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Table 4.4 - Certificate Condition 140 for Segment 12						
Town	Parcel Number	Property Owner	Station Start	Station End	Owner Type	Type of Easement
Stony Point	20.11-2-18	DC Liberty LLC	72570+55	72571+27	Private	Permanent
Stony Point	20.11-2-19	James M. Trimble	72571+27	72571+46	Private	Permanent
Stony Point	20.11-2-25	Stony Point Realty Corp	72574+77	72575+86	Private	Permanent
Haverstraw	20.19-7-41	Gerard Caputo	72622+41	72622+67	Private	Permanent
Haverstraw	20.19-7-40	James M. Forzono	72622+67	72623+49	Private	Permanent
Haverstraw	26.07-5-71	County of Rockland IDA	72641+27	72641+90	Public	Permanent
Haverstraw	26.11-1-12.1	Double Wings Realty Corp	72657+50	72658+06	Private	Permanent
Haverstraw	26.42-2-10	Amazing Vistas Realty LLC	72664+47	72664+79	Private	Permanent
Haverstraw	26.50-1-65	198 Havestraw Properties LLC	72665+43	72666+76	Private	Permanent
Haverstraw	26.51-1-47	Michael A Peirano	72680+71	72681+07	Private	Permanent
Haverstraw	26.51-1-46	Rory S Tinston	72681+07	72681+46	Private	Permanent
Haverstraw	27.17-1-17	DHB Realty Corp	72729+05	72729+30	Private	Permanent
Haverstraw	35.11-1-8	Palisades Interstate Park Comission	72783+75	72786+85	Private	Permanent

Table 4.5 - Access Roads in Segment 12				
Access Road Description	Type of Access Road	Sheet	Location (Approximate – see Drawings for Details)	Sensitive Areas Crossed
Access to Transition Vault #3	Permanent	C-100	STA 725495+00	State Parkland and Forested Area
Access Road - Parking Lot entrance	Temporary use of existing road	C-105	STA 72562+00	None
Access Road - Hoke Drive	Temporary use of existing road	C-107	STA 72590+75	None
Access Road - Hospital Driveway	Temporary use of existing road	C-108	STA 70608+00, STA 72614+50	None
Access Road - Parking Lot entrance	Temporary use of existing road	C-110	STA 72636+50	None
Access Road - Hillside Ave and Unnamed Road	Temporary use of existing road	C-111	STA 72650+50; STA 72657+50	None
Access Road - Existing commercial driveway	Temporary use of existing road	C-115	STA 72711+00; STA 72714+00	None
Access to DTS Hut	Permanent	C-123, C-124	STA 72845+00	State Parkland and Forested Area

Table 5.2 - Construction Materials and Equipment Staging		
Work Area Description	Sheet #	Location (Approximate- see Drawings for Details)
HDD 124 Entry Work Area	C-100	STA 72496+00
HDD 124 Exit Work Area	C-101	STA 72504+15
Equipment Staging Area	C-104	STA 72551+00
HDD 126 Entry Work Area	C-105	STA 72561+20
HDD 126 Exit Work Area	C-106	STA 72582+95
HDD 127 Entry Work Area	C-108	STA 72611+03
HDD 127 Exit Work Area	C-109	STA 72625+60
Equipment Staging Area	C-109	STA 72631+50
Equipment Staging Area	C-110	STA 72637+00
HDD 129 Entry Work Area	C-110	STA 72637+85
HDD 129 Exit Work Area	C-111	STA 72654+45
HDD 131 Entry Work Area	C-111	STA 72655+40
Equipment Staging Area	C-112	STA 72674+00
HDD 131 Exit Work Area	C-112	STA 72676+80
HDD 132 Entry Work Area	C-112	STA 72679+03
HDD 132 Exit Work Area	C-114	STA 72697+40
Equipment Staging Area	C-125	STA 72866+00

Table 7.2 – Recreational Areas				
Recreational Area	Parcel Number	Plan and Profile (Appendix C) Sheet Number	Station (Approximate – see Appendix C for details)	Anticipated Impacts to Recreational Area
Stony Point Battlefield National Historic Landmark and State Historic Site	187.00-2-8.2	C-100 – C-101	STA 72495+32 to 72505+00	Temporary construction disturbance
WWI Memorial Spring – Stony Point Town Lands	15.19-3-86	C-103	STA 72536+00 to 72537+00	None
Charles Eccher Park/ Lowland Park – Stony Point Town Lands	20.07-3-76	C-104	STA 72549+00 to 72553+00	Temporary construction disturbance
Haverstraw Beach State Park	35.11-1-8	C-119 - C-121	STA 72777+00 to 72806+50	Temporary construction disturbance
Hook Mountain State Park	32-11-2-1	C-121	STA 72807+00 to 72814+00	None
Rockland Lake State Park	35.15-1-2	C-121 to C-123	STA 72814+00 to 72835+00	None
State Bicycle Route 9 along Route 9W	-	C-126 to C-127	STA 72888+50 to 72899+31	Temporary construction disturbance



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CHAMPLAIN HUDSON POWER EXPRESS  
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W:  
ROCKLAND  
EM&CP DATA TABLES-SHEET 2 OF 4

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Table 8.1 - Terms and Definitions from BMP Document Section 5.2	
Term	Definition
Clearing	the cutting and physical removal, either by hand or mechanical means, of all vegetation from the work area
Grubbing	the mechanical removal of the stump and root mass of felled woody vegetation
Slash	shrubs, saplings, and tops of trees 4 inches in diameter or less at the large end for hardwood and 6 inches in diameter or less at the large end for softwoods.
Stumps	the woody stem and fibrous root mass left in the soil after removing the trunk at the butt.
Timber/logs	trunks and limbs greater than 6 inches in diameter at the small end, with a minimum 8-foot length.

Table 8.2 – Tree and Vegetation Clearing Methods		
Method Type	Method Title	Method Description
Type I	Hand Cutting (HC)*	<p>This method employs a hand-held chain saw. It is selective but is slower and more expensive than motorized mechanical devices. Residential areas, buffer zones, wetlands, and highway screens are areas where hand cutting is typically prescribed.</p> <p>*Mechanized tree clearing will be utilized in select scenarios where hand clearing is deemed unsafe or unfeasible. All mechanized clearing in wetlands will be done utilizing approved temporary wetland access methods (see Section 4.10.2 of the EM&amp;CP)</p>
Type II	Mechanical Clearing Machine (HA)	<p>This term usually refers to a machine known as the Hydro-ax or Kershaw mower. This machine can cut trees up to ten (10) inches in diameter at the rate of several acres a day, depending on stem density and terrain. It is essentially nonselective and a good device for clearing rights-of-way that are composed of young undesirable species in a relatively uniform stand.</p>
Type III	Mowing	<p>This technique is primarily used in areas of herbaceous vegetation. Terrain must be relatively flat with no gullies or rocks.</p>
Type IV	Mechanical whole-tree felling equipment	<p>This method allows controlled felling and loading of whole trees while minimizing damage to adjacent trees. Where vegetation is cleared, erosion and sediment control measures will be installed and monitored until the topsoil is stabilized and can support grassy vegetation.</p>

Note: Table 8.4.1 summarizes the location and clearing Type that will occur within this Package. Section 8.0 and 8.1 of the EM&CP summarizes the clearing methods and procedures for vegetation and tree clearing and removal including standards and specifications for clearing in environmentally sensitive areas.

- Wetlands: Section 8.2.1 and Section 9.1 of the EM&CP
- Stream Crossing: Section 8.2.1 and Section 9.1 of the EM&CP.
- Visually Sensitive Areas Section 8.3.2 of the EM&CP
- Agricultural Lands: Section 8.2.2 of the EM&CP.

Table 8.3 – Tree and Vegetation Disposal Methods		
Method Type	Method Title	Method Description
Type A	Construction Use	Logs may be utilized as needed during construction for wetland access, cribbing, retaining walls, or other uses. Following use, any logs unsuitable for firewood, saw logs, or chipping will be transported off the right-of-way to an approved disposal site.
Type B	Log Piles	Logs not needed for construction will be removed from the right-of-way to an approved disposal area.
Type C	Sale	Where sufficient merchantable volume exists on the site, logs may be sold to a third party. Where appropriate and practical, and with the agreement of landowners, unsold logs will be hauled to accessible locations for salvage by the general public in accordance with the substantive requirements of 6 NYCRR Part 192.5, firewood restrictions to protect forests from invasive species.
Type D	Tree/Log Chipping	When logs cannot be reused or sold, they will be chipped on site. The resulting wood chips will be piled in upland areas within the right-of-way or transported off right-of-way to an approved disposal site. Wood chips will be spread three (3) to five (5) inches thick with fertilizer spread over the chips to minimize soil nitrogen depletion due to cellulose decomposition.
Type E	Vegetation Chipping	Vegetation may be chipped to reduce debris volume.
Type F	Vegetation Hauling	Vegetation and stumps may be hauled to a NYSDEC approved landfill or other suitable off-site location with the approval of the landowner and all applicable permitting agencies.
Type G	Vegetation Burial	Stumps may be buried on the right-of-way with landowner agreement. The burial areas will be sufficiently compacted and monitored after construction to assure that settling does not occur. Where significant settling after construction has been identified by the Construction Inspector et. al., finished grade will be re-established using locally obtained run-of-bank material and/or topsoil and re-seeded as appropriate as specified in Sections 14.2. Areas where significant amounts of stump burial occurs will be noted on as-built drawings, and monitored for settling during ROW condition surveys and maintenance activities.

Note: Section 8.4 of the EM&CP summarizes the tree and vegetation disposal procedures for this Segment. No burning of any vegetative or tree debris is permitted within the work areas of this Segment. All applicable NYSDEC regulations regarding invasive species will be followed when disposing of vegetation.

Table 8.4 - Vegetation and Tree Clearing Locations			
Sheet	Location (Approximate - See Drawings for Details)	Vegetation/Tree Clearing Method Type	Environmentally Sensitive Areas
C-100	STA 72495+00 to 72499+00	Type I and II	State Parkland; State Historic Site
C-103	STA 72539+00 to 72540+00	Type I and II	
C-104	STA 72550+50	Type I and II	Town Park
C-106	STA 72583+00 to 72583+50	Type I and II	
C-107	STA 72600+50 to 72602+00; STA 72603+00; STA 72604+00	Type I and II	
C-108	STA 72609+50	Type I and II	
C-112	STA 72679+00 to 72680+00	Type I and II	
C-115	STA 72711+50 to 72713+75	Type I and II	
C-118	STA 72765+25 to 72768+75	Type I and II	ESA 1, State parkland
C-121	STA 72809+50 to 72812+25	Type I and II	ESA 1, State parkland
C-123 - C-124	STA 72840+25 to 72847+50	Type I and II	Wetland, ESA 1, State parkland
C-125	STA 72866+50 to 72869+25	Type I and II	ESA 1
C-127	STA 72898+90 to 72899+59	Type I and II	ESA 1

Table 9.1 - Summary of Waterbody Impacts in Segment 12						
Approximate Station	Waterbody Name	NYSDEC Classification	Waterbody Field ID	Flow Status	Avoidance and Minimization Measure	Impact (Linear feet)
72503+00	Unnamed Tributary to Hudson River	SC/C	Stream 3 (S-3)	Perennial	HDD	0
72515+50	Unnamed Tributary to Hudson River	Unmapped	Stream 5.10 (S-4)	Intermittent	Trench below existing culvert	0
72551+50	Cedar Pond Brook	B/B	Stream 2 (S-2)	Perennial	Bridge attachment	0
72643+50	Minisceongo Creek	SC/C	Stream 1 (S-1)	Perennial	HDD	0
Total Stream Impact						0

Table 9.2 - Summary of Wetland Impacts in Segment 12						
Drawing Sheet Number and Approximate Station	Wetland ID	Wetland Community Type	Jurisdiction	Avoidance and Minimization Measure	Permanent ROW Impacts (square feet)	Temporary Construction Impacts (square feet)
72503+00	D	PEM	USACE/ NYSDEC (HS-2)	HDD	0	0
72643+25	C	PUB	USACE		0	0
72808+75	B	PFO	USACE		0	0
72840+25	A	PEM	USACE		62.7	1,489.40
Total Wetland Impact					62.70	1,489.40
					0.001 acre	0.03 acre

Table 9.3 - FEMA 100-Year Floodplains in Segment 12		
Sheet Number	Station (Approximate – see Drawings for details)	Floodplain
C-400A – C-401	STA 72498+00 to STA 72503+50	100-year flood; 500-year flood
C-402	STA 72550+25 to STA 72552+00	100-year flood; 500-year flood
C-405	STA 72643+75 to STA 72644+60	100-year flood; 500-year flood

Table 9.4 - Summary of RTE Species Impact Avoidance and Minimization Measures			
ESA Type	Station Start	Station End	Best Management Practices
ESA 9	72495	72899	(a) Conduct tree clearing between October 31 and March 31. Tree clearing is not allowed between April 1 and October 30. (b) During the preconstruction survey, the contractors would identify large live or dead trees with peeling bark, including large specimens of shagbark hickory (Carya ovata), with the potential to serve as maternity or roost trees and these would be marked. Potential roost trees identified within the construction limits would be avoided where possible during construction activities.

The Table above summarize the locations, avoidance, minimization measures, and impacts for the federally listed species and state-listed species that may occur on or within the vicinity of this Segment. Appendix T and Section 9.3 of the EM&CP summarizes the habitat descriptions, mitigation and protection measures for threatened and endangered species; rare, threatened and endangered plants; and significant natural communities.



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SEGMENT 12 (PACKAGE 7B) - ROUTE 9W:  
ROCKLAND  
EM&CP DATA TABLES-SHEET 3 OF 4

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Table 11.1 - Segment 12 Cultural Resources			
Cultural Resource Name	Location	Impact	Protection Measure
Stony Point Battlefield (NHL)	Limit of Work extends 75 feet east and 40 feet west of cable alignment, just outside the western property boundary of the National Historic Landmark (NHL), Stony Point Battlefield State Historic Site.	Marine HDD work area and Transition Vault.	Testing or monitoring recommended.
R.B. Marks Site (SUBj 2575, 08705.000081, NYSM 11696	Within the lawn of a residential property.	Cable within the road. No impacts expected.	Existing chain link fence. Add signage to keep heavy construction traffic out
Stony Point Blacksmith Shop (08705.000080, NYSM 11695)	Town of Stony Point. Site is well to the north of Project impacts.	LOW in park for equipment storage and access to the James A. Farley bridge to install conduit under the bridge.	None.
Peck Rolling Mill Site (0744.0004)	Town of Stony Point. Well east of the Project.	No ground disturbing activity in the vicinity.	None.
"Treason House" Site (08744.000005)	Town of Stony Point. Well west of Project likely destroyed.	No ground disturbing activity in the vicinity.	None.
William Smith House / "White House" (08744.000017)	Town of Stony Point. West of Project.	No ground disturbing activity in the vicinity.	None.
NYSM 6373 (likely precontact)	Southern portion of cable route. Town of Clarkstown.	Cable within road or road shoulder.	None.
NYSM 4653	Town of Stony Point.	HDD and work area.	Testing or monitoring recommended.
High archeological sensitivity	Limit of Work extends beyond the road's ROW into an area of lawn and light woods. Town of Clarkstown.	Splice Vaults 251 and 251A and associated access road and work areas.	Testing or monitoring recommended.
Michael J. Higgins Funeral Service, Inc	73 North Liberty Drive, Town of Stony Point. Eligible property.	Splice Vault 245. Impacts expected to low stone wall in front of property within public ROW.	No adverse effects to eligible property. Testing or monitoring recommended for splice and work area.
2 Summit Avenue	2 Summit Avenue, Town of Stony Point. Undetermined.	Proposed impacts to modern retaining walls and landscaping.	None.
c. 1830 Vernacular Dwelling	92 East Main Street. Town of Stony Point. Eligible property.	Near access road, no impacts.	None.
c. 1840 Vernacular Dwelling	90 East Main Street. Town of Stony Point. Eligible property.	Near access road, no impacts.	None.
Henry M. Peck House (08702.000180/ 00NR01648)	HDD under property (as drawn on nomination form). Listed and then delisted after house was demolished. West Haverstraw.	HDD 127 and 128.	None.

Table 12.2 – NYSDOT Coordination Summary		
Coordinating Parties	Description	Current Status
Certificate Holders, DPS Staff, NYSDOT	All plans and work to be performed in State-owned ROW under NYSDOT's supervision and management.	Ongoing throughout
Certificate Holders, DPS Staff, NYSDOT staff	Certificate Holders shall provide DPS Staff and NYSDOT staff with a preliminary design marked to avoid conflict with potential transportation projects that NYSDOT Staff may seek to undertake in the future and shall offer to consult with NYSDOT Staff concerning any comments it may offer and shall use reasonable efforts to accommodate any NYSDOT concerns.	Prior to filing any Segment EM&CP involving any such state-owned ROW.
Certificate Holders, NYSDOT, Agency crossed by project	Certificate Holders will consult with each transportation department or agency having jurisdiction over any roads, related structures, and components that will be crossed by the Facility or used for direct access to the Construction Zone. If the access road takes direct access from, or lies within the limits of, such roads, the Certificate Holders will notify each relevant transportation department or agency of the approximate date when work will begin.	During preparation of the EM&CP and when work begins.
Certificate Holders, NYSDOT, DPS Staff, NYSDEC	The Certificate Holders will provide status reports summarizing construction and indicating construction activities and locations scheduled for the next month.	Bi-weekly.

Table 12.3 - Road and Highway Crossings				
Jurisdiction	Road Crossing	Construction Method	Sheet	Location (Approximate, see Drawings for Details)
Rockland County	West Main Street	Trench	C-104	STA 72547+50
Town	Fliors Lane	Trench	C-107	STA 72592+50
Rockland County	Railroad Avenue	HDD 128	C-109	STA 72623+75
NYSDOT/ City or Village	Hillsdale Road	HDD 129	C-111	STA 72650+50
NYSDOT/ City or Village	Gurnee Avenue	HDD 131	C-111, C-112	STA 72664+50
NYSDOT	Westside Avenue	HDD 132	C-113	STA 72685+00
Town	New Main Street	Trench	C-114	STA 72704+00

Table 12.4 - Road Parallel Construction				
Jurisdiction	Parallel Road	Construction Method	Sheet	Location (Approximate, see Drawings for Details)
NYSDOT	Battlefield Road	Trench; HDD 124	C-100, C-101	STA 72499+00 to 72502+00
NYSDOT	Park Road	Trench; HDD 124	C-101, C-102	STA 72502+00 to 72515+50
NYSDOT	North Liberty Drive	Trench	C-102 to C-104	STA 72515+50 to 72547+50
NYSDOT	South Liberty Drive (North Route 202/ North US-9W)	Trench; HDD 126; HDD 127	C-104 to C-109	STA 72547+50 to 72623+50
NYSDOT	South Route 9W (South Route 202/ Conger Avenue)	HDD 127; Trench; HDD 129	C-109 to C-121	STA 72623+50 to 72805+00
NYSDOT	North Route 9W	Trench	C-121 to C-124	STA 72805+00 to 72897+50

Table 13.1 – CI Consultation Summary			
Utility Owner	Utility Type (Quantity)	Agreement Status/Date	Notes
Joint Regional Sewerage Board	Storm Sewer (82) Sanitary Sewer (20)	CI Owner unresponsive	
Cablevision of West Nyack	Underground Fiber (1)	Unable to reach suitable CI owner contact (e.g., technical department) to date. Efforts are ongoing.	
AT&T	Underground Fiber (3)	Agreement expected pending receipt of updated plan/profile that reflect CI owner comments.	Anticipate receipt of updated plan/profile by 04/14/23.
NRG Bowline	Overhead Transmission (2)	CI Owner unresponsive.	Will send updated plan/profile when available, anticipated by 04/14/23 and repeat feedback request.
Verizon	Underground Fiber (1) Underground Telephone (2)	Agreement expected pending receipt of updated plan/profile that reflect CI owner comments.	Anticipate receipt of updated plan/profile by 04/14/23.
Orange and Rockland Utilities	Overhead Electric (179) Underground Electric (6) Underground Gas (93)	Consultation ongoing.	Ongoing consultation/information reviews related to CHPE alignment and electrical effects. Currently anticipate agreement in third quarter 2023.
Veolia	Water Line (59)	Agreement expected pending receipt of updated plan/profile that reflect CI owner comments.	Anticipate receipt of updated plan/profile by 04/14/23.

Table 14 - Restoration Methods	
Land Use Description	Section of EM&CP
Construction Materials and Equipment Staging Locations and Temporary Access Roads	14.2.2
Pavement	14.2.2
Railway Ballast	N/A
Recreational Areas	14.2.4
Landscaping	14.3
Streams and Waterbodies	14.4
Access Roads and Laydown Areas within Agricultural Lands	N/A
Drainage Features	N/A
General Agricultural Lands	N/A

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

INVASIVE SPECIES

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

EM&CP NOISE SENSITIVE AREAS NOTE

THE NOISE RECEPTORS THAT MAY OCCUR NEAR SEGMENT 12 AT VARIOUS POINTS INCLUDE RESIDENCES AND BUSINESSES. SECTION 10.2 OF THE EM&CP DESCRIBES THE NOISE CONTROL MEASURES THAT WILL BE EMPLOYED THROUGHOUT THIS SEGMENT.

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F	04/14/2023	FINAL SUBMISSION	RB	JL
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	RB	JL
D	11/16/2022	DRAFT FINAL SUBMISSION	RB	JL
C	05/20/2022	60% DESIGN SUBMISSION	RB	JL
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BV	TK
A	02/18/2022	PRELIMINARY PROGRESS	BV	TK
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP

CHAMPLAIN HUDSON POWER EXPRESS  
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W:  
ROCKLAND  
EM&CP DATA TABLES-SHEET 4 OF 4

KIEWIT PROJECT NO.		21162
TT PROJECT NO.		204-3701
DRAWING NO.		G-013
DRAWN BY:	RB	DESIGNED BY: AC
APPROVED BY:	JL	SCALE AS SHOWN
DATE	04/14/2023	DATE
SH.NO.	--	OF --



CLEANUP AND RESTORATION NOTES

PROMPT CLEANUP AND RESTORATION OF ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITY IS A PRIORITY OF THE CONSTRUCTION SCHEDULE AND SEQUENCING. TIMELY CLEANUP AND RESTORATION WILL ASSIST IN MINIMIZING POTENTIAL ENVIRONMENTAL IMPACTS ASSOCIATED WITH THE PROJECT. PROCEDURES FOR CLEANUP AND RESTORATION ARE DESCRIBED IN THE FOLLOWING SECTIONS. IN ACCORDANCE WITH CERTIFICATE CONDITION 48, WITHIN TEN (10) DAYS OF THE COMPLETION OF FINAL RESTORATION ACTIVITIES, THE CERTIFICATE HOLDER WILL NOTIFY THE SECRETARY THAT ALL RESTORATION HAS BEEN COMPLETED IN COMPLIANCE WITH THE CERTIFICATE AND THE ORDER(S) APPROVING THE EM&CP.

CLEANUP STANDARDS AND PRACTICES

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

RESTORATION AND PLANTING

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

SITE PREPARATION FOR REVEGETATION

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

SEEDING AND PLANTING

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

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

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

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

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

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

RESTORATION OF WATERBODIES

UPON COMPLETION OF BACKFILLING OPERATIONS, CLEANUP AND RESTORATION OF THE STREAM CROSSING, BANKS AND BANK APPROACHES (AT LEAST 50 FEET ADJACENT TO EACH BANK) WILL BE COMPLETED WITHIN 24 HOURS. IF NEEDED, STREAM BANKS WILL BE RE-ESTABLISHED TO ORIGINAL GRADE IMMEDIATELY AFTER STREAM BANK WORK IS COMPLETED. THE BANKS WILL THEN BE PERMANENTLY STABILIZED BY SEEDING WITH NATIVE GRASSES, MULCHED AND, IF NEEDED, PLANTED WITH NATIVE OR NATURALIZED SHRUB SEEDLINGS. IF ADDITIONAL STABILIZATION IS NEEDED JUTE NETTING OR EROSION CONTROL BLANKETS WILL BE USED. RESTORATION AND PLANTING DETAILS FOR WATERBODIES ARE FURTHER DETAILED IN SECTION 14.4.1 OF THE EM&CP.

RESTORATION OF WETLANDS

DURING THE INITIAL RESTORATION PHASE, ALL CONSTRUCTION DEBRIS WILL BE REMOVED FROM THE RIGHT-OF-WAY. SEGREGATED TOPSOIL WILL BE REPLACED, AND WETLAND CONTOURS AND DRAINAGE PATTERNS WILL BE RESTORED TO APPROXIMATE ORIGINAL CONDITION BY MATCHING THAT WHICH EXISTS IN ADJACENT UNDISTURBED AREAS.

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

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

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

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

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

PLANT INSPECTION, GUARANTEE AND MAINTENANCE

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

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

RESTORATION WITHIN NYSDOT ROW

ALL RESTORATION WITHIN THE NYSDOT ROW SHALL BE DONE IN ACCORDANCE WITH THE LATEST VERSION OF THE NYSDOT STANDARD SPECIFICATIONS AND STANDARD SHEET.

RESTORATION OF RECREATIONAL AREAS

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

ROADWAY RESTORATION (STRIPPING, SIGNAGE, AUDIBLE ROADWAY

DELINEATORS)

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

RESTORATION OF ROADWAY

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

RESTORATION OF ROADWAY SHOULDER

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

PAVEMENT RESTORATION

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

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

SEED MIXES

- A. GENERAL SEED:
  - 1. PIPELINE MIX W/SWITCHGRASS (ERNMX-102-1)
  - 2. MIX COMPOSITION
    - 33.0% PANICUM VIRGATUM, 'SHAWNEE' (SWITCHGRASS, 'SHAWNEE')
    - 25.0% FESTUCA RUBRA (CREEPING RED FESCUE)
    - 18.0% LOLIUM MULTIFLORUM (ANNUAL RYEGRASS)
    - 16.0% PHEUM PRATENSE, CLIMAX (TIMOTHY, CLIMAX)
    - 5.0% TRIFOLIUM HYBRIDUM (ALSIKE CLOVER)
    - 3.0% AGROSTIS ALBA (REDTOP)
    - 3. APPLIED AT A RATE OF 40 LBS/ACRE.
- B. ADIRONDACK SEED:
  - 1. MIX COMPOSITION
    - 25% VIRGINIA WILD RYE (ELYMUS VIRGINICUS VAR. VIRGINICUS)
    - 25% CANADA WILD RYE (ELYMUS CANADENSIS)
    - 25% AUTUMN BENTGRASS (AGROSTIS PERENNANS)
    - 25% CAMPER LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM)
    - 2. APPLIED AT A RATE OF 40 LBS/ACRE.
  - 2. SPECIALIZED WETLAND MIX FOR SHADED OBL-FACW AREAS (ERNMX-137)
    - 1. MIX COMPOSITION
      - 35.0% CAREX VULPINOIDEA, PA ECOTYPE (FOX SEDGE, PA ECOTYPE)
      - 20.0% ELYMUS VIRGINICUS, MADISON-NY ECOTYPE (VIRGINIA WILD RYE, MADISON-NY ECOTYPE)
      - 15.0% CAREX SCOPARIA, PA ECOTYPE (BLUNT BROOM SEDGE, PA ECOTYPE)
      - 12.8% CAREX LURIDA, PA ECOTYPE (LURID SEDGE, PA ECOTYPE)
      - 5.0% CAREX LUPULINA, PA ECOTYPE (HOP SEDGE, PA ECOTYPE)
      - 4.0% VERBENA HASTATA, PA ECOTYPE (BLUE VERVAIN, PA ECOTYPE)
      - 2.0% HELIOPSIS HELIANTHOIDES, PA ECOTYPE (OXEYE SUNFLOWER, PA ECOTYPE)
      - 1.0% CAREX INTUMESCENS, PA ECOTYPE (STAR SEDGE, PA ECOTYPE)
      - 1.0% SPARGANIUM AMERICANUM (EASTERN BUR REED)
      - 0.7% IRIS VERSICOLOR (BLUEFLAG)
      - 0.5% BIDENS CERNUA, PA ECOTYPE (NODDING BUR MARIGOLD, PA ECOTYPE)
      - 0.5% CAREX CRINITA, PA ECOTYPE (FRINGED SEDGE, PA ECOTYPE)
      - 0.5% CAREX STIPATA, PA ECOTYPE (AWL SEDGE, PA ECOTYPE)
      - 0.5% EUPATORIUM PERFOLIATUM, PA ECOTYPE (BONESET, PA ECOTYPE)
      - 0.5% SCIRPUS CYPERINUS, PA ECOTYPE (WOOLGRASS, PA ECOTYPE)
      - 0.5% VERNONIA NOVEBORACENSIS, PA ECOTYPE (NEW YORK IRONWEED, PA ECOTYPE)
      - 0.3% LOBELIA SIPHILITICA, PA ECOTYPE (GREAT BLUE LOBELIA, PA ECOTYPE)
      - 0.2% PENTHORUM SEDOIDES, PA ECOTYPE (DITCH STONECROP, PA ECOTYPE)
      - 2. APPLIED AT A RATE OF APPROXIMATELY 20 LBS/ACRE, ALONG WITH THE COVER CROP.
    - 3. COVER CROP SHOULD BE APPLIED AT A RATE OF 60-80 LBS/ACRE. COVER CROP TO BE AN ANNUAL RYE. COVER CROP BASED ON SEASON OF RESTORATION AN ANNUAL RYE THROUGH SPRING AND SUMMER AND WINTER RYE FOR LATE FALL.
- D. FACW WETLAND MEADOW MIX (ERNMX-122)
  - 1. MIX COMPOSITION
    - 21.0% CAREX VULPINOIDEA, PA ECOTYPE (FOX SEDGE, PA ECOTYPE)
    - 20.0% ELYMUS VIRGINICUS, PA ECOTYPE (VIRGINIA WILD RYE, PA ECOTYPE)
    - 16.0% CAREX LURIDA, PA ECOTYPE (LURID SEDGE, PA ECOTYPE)
    - 12.0% CAREX LUPULINA, PA ECOTYPE (HOP SEDGE, PA ECOTYPE)
    - 12.0% CAREX SCOPARIA, PA ECOTYPE (BLUNT BROOM SEDGE, PA ECOTYPE)
    - 3.0% VERBENA HASTATA, PA ECOTYPE (BLUE VERVAIN, PA ECOTYPE)
    - 2.4% ASCLEPIAS INCARNATA, PA ECOTYPE (SWAMP MILKWEED, PA ECOTYPE)
    - 2.0% JUNCUS EFFUSUS (SOFT RUSH)
    - 2.0% ZIZIA AUREA, PA ECOTYPE (GOLDEN ALEXANDERS, PA ECOTYPE)
    - 1.6% ASTER NOVAE-ANGLIAE, PA ECOTYPE (NEW ENGLAND ASTER, PA ECOTYPE)
    - 1.3% CAREX STIPATA, PA ECOTYPE (AWL SEDGE, PA ECOTYPE)
    - 1.0% BIDENS CERNUA, PA ECOTYPE (NODDING BUR MARIGOLD, PA ECOTYPE)
    - 1.0% JUNCUS TENUIS, PA ECOTYPE (PATH RUSH, PA ECOTYPE)
    - 0.8% SOLIDAGO RUGOSA, PA ECOTYPE (WRINKLELEAF GOLDENROD, PA ECOTYPE)
    - 0.6% VERBENA URTICIFOLIA, PA ECOTYPE (WHITE VERVAIN, PA ECOTYPE)
    - 0.5% CAREX CRINITA, PA ECOTYPE (FRINGED SEDGE, PA ECOTYPE)
    - 0.5% EUPATORIUM PERFOLIATUM, PA ECOTYPE (BONESET, PA ECOTYPE)
    - 0.5% HELENIUM AUTUMNALE, PA ECOTYPE (COMMON SNEEZEWEED, PA ECOTYPE)
    - 0.5% MIMULUS RINGENS, PA ECOTYPE (SQUARE STEMMED MONKEYFLOWER, PA ECOTYPE)
    - 0.3% LOBELIA SIPHILITICA, PA ECOTYPE (GREAT BLUE LOBELIA, PA ECOTYPE)
    - 0.3% SCIRPUS CYPERINUS, PA ECOTYPE (WOOLGRASS, PA ECOTYPE)
    - 0.2% ALISMA SUBCORDATUM, PA ECOTYPE (MUD PLANTAIN, PA ECOTYPE)
    - 0.2% ASTER PUNICEUS, PA ECOTYPE (PURPLESTEM ASTER, PA ECOTYPE)
    - 0.2% ASTER UMBELLATUS, PA ECOTYPE (FLAT TOPPED WHITE ASTER, PA ECOTYPE)
    - 0.1% PENTHORUM SEDOIDES, PA ECOTYPE (DITCH STONECROP, PA ECOTYPE)
    - 2. APPLIED AT A RATE OF APPROXIMATELY 20 LBS/ACRE, ALONG WITH THE COVER CROP.
  - 3. COVER CROP SHOULD BE APPLIED AT A RATE OF 60-80 LBS/ACRE. COVER CROP TO BE AN ANNUAL RYE. COVER CROP BASED ON SEASON OF RESTORATION AN ANNUAL RYE THROUGH SPRING AND SUMMER AND WINTER RYE FOR LATE FALL.

CHAMPLAIN HUDSON POWER EXPRESS  
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W:  
ROCKLAND  
RESTORATION NOTES

DRAWN BY:	RB	DESIGNED BY:	AC	APPROVED BY:	JL	SCALE	AS SHOWN	DATE	04/14/2023
						REV. NO.	F	SH.NO.	-- OF --

G-020

KIEWIT PROJECT NO.	21162
TT PROJECT NO.	204-3701
DRAWING NO.	



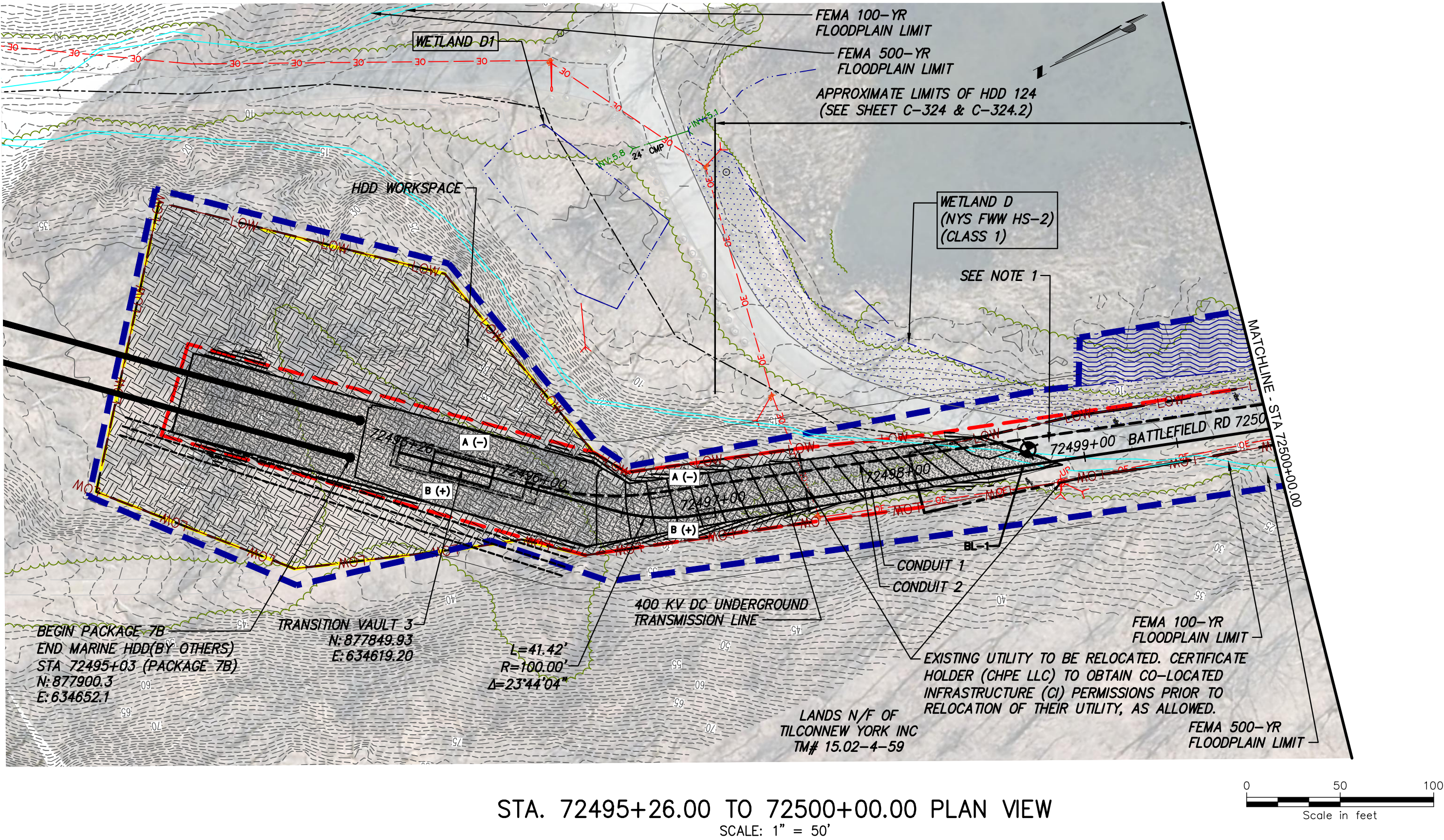
TETRA TECH ENGINEERING AND SURVEYING P.C.  
(A NEW YORK PROFESSIONAL CORPORATION)

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.

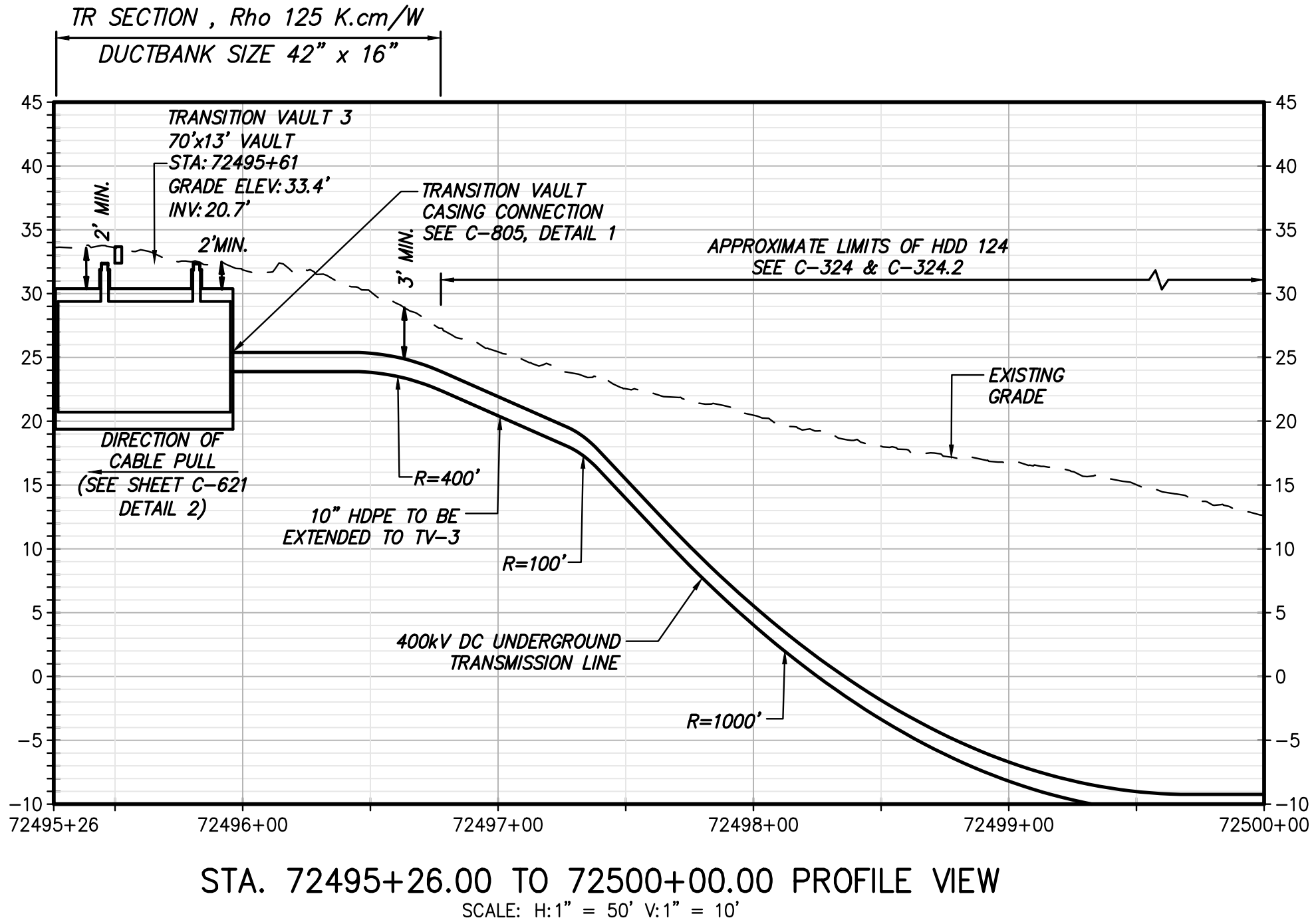
ISSUED FOR PERMITTING

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F	04/14/2023	FINAL SUBMISSION	RB	JL
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	RB	JL
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STA. 72495+26.00 TO 72500+00.00 PLAN VIEW



STA. 72495+26.00 TO 72500+00.00 PROFILE VIEW

NOTES:  
1. PRIOR TO EXCAVATION, CONTRACTOR SHALL COORDINATE ACCESS TO THE QUARRY WITH TILCON PRIOR TO START OF CONSTRUCTION.



TETRA TECH ENGINEERING AND SURVEYING P.C.  
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ISSUED FOR PERMITTING

----	----	----	----	----
F	04/14/2023	FINAL SUBMISSION	RB	JL
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	RB	JL
D	11/16/2022	DRAFT FINAL SUBMISSION	RB	JL
C	05/20/2022	60% DESIGN SUBMISSION	RB	JL
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BV	TK
A	02/18/2022	PRELIMINARY PROGRESS	BV	TK
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP

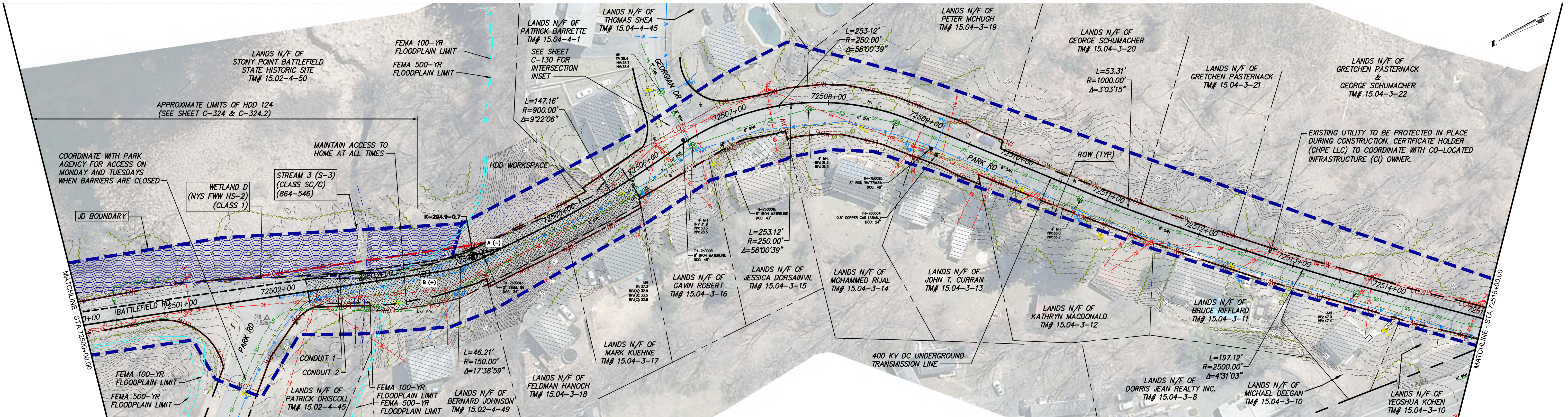
CHAMPLAIN HUDSON POWER EXPRESS  
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W:  
ROCKLAND  
STA. 72495+26.00 TO STA. 72500+00.00

DRAWN BY:	RB	DESIGNED BY:	AC	APPROVED BY:	JL	SCALE	AS SHOWN	DATE	04/14/2023
						REV. NO.	F	SH. NO.	-- OF --

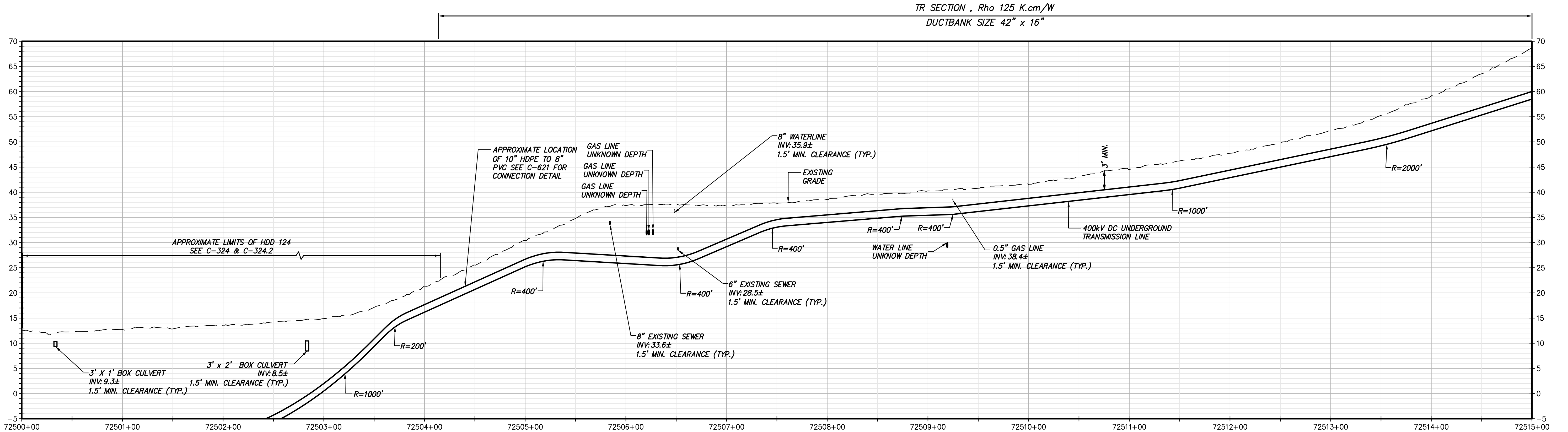
C-100

KIEWIT PROJECT NO.	21162
TT PROJECT NO.	204-3701
DRAWING NO.	





STA. 72500+00.00 TO STA. 72515+00.00 PLAN VIEW  
SCALE: 1" = 50'



STA. 72500+00.00 TO STA. 72515+00.00 PROFILE VIEW  
SCALE: H:1" = 50' V:1" = 10'



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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
----	----	----	----	----
F	04/14/2023	FINAL SUBMISSION	RB	JL
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	RB	JL
D	11/16/2022	DRAFT FINAL SUBMISSION	RB	JL
C	05/20/2022	60% DESIGN SUBMISSION	RB	JL
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BV	TK
A	02/18/2022	PRELIMINARY PROGRESS	BV	TK

CHAMPLAIN HUDSON POWER EXPRESS  
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W:  
ROCKLAND  
STA. 72500+00.00 TO STA. 72515+00.00

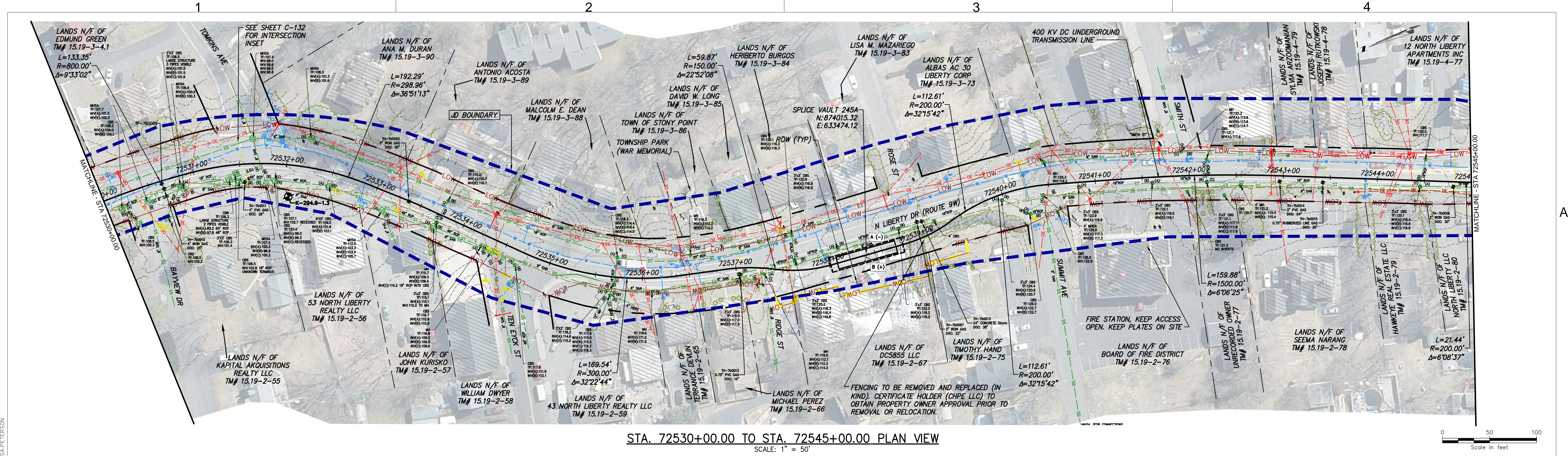
KIEWIT PROJECT NO.	21162
TT PROJECT NO.	204-3701
DRAWING NO.	C-101
DATE	04/14/2023
SH.NO.	-- OF --

DRAWN BY:	RB	DESIGNED BY:	AC	APPROVED BY:	JL	SCALE	AS SHOWN	DATE	04/14/2023
						REV. NO.	F	SH.NO.	-- OF --



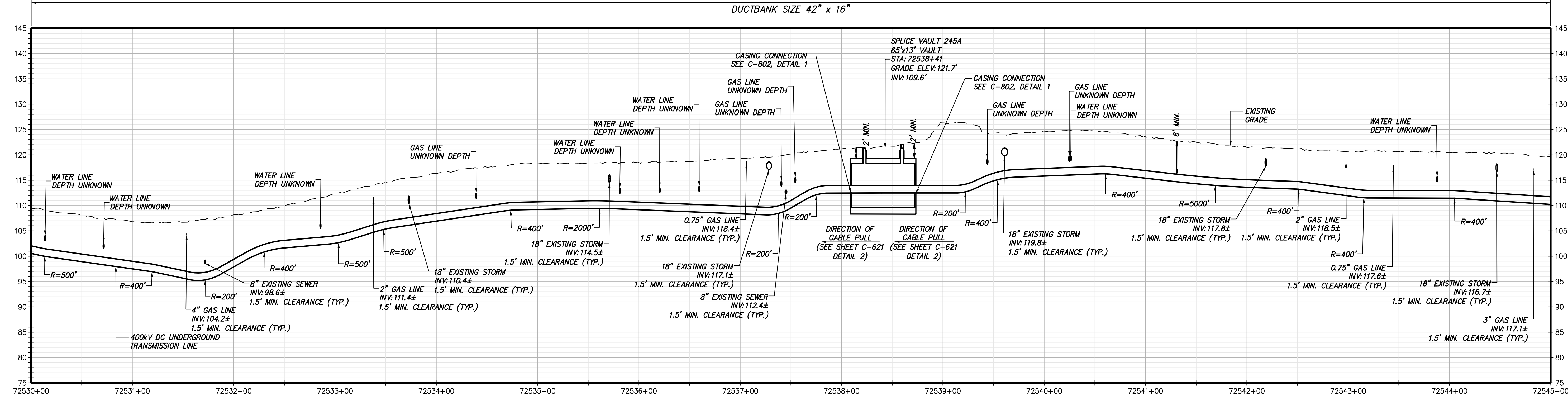







STA. 72530+00.00 TO STA. 72545+00.00 PLAN VIEW  
SCALE: 1" = 50'


TR SECTION , Rho 125 K.m/W  
DUCTBANK SIZE 42" x 16"




STA. 72530+00.00 TO STA. 72545+00.00 PROFILE VIEW  
SCALE: H: 1" = 50' V: 1" = 10'



Champlain Hudson  
Power Express



Kiewit



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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
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D	11/16/2022	DRAFT FINAL SUBMISSION	RB	JL
C	05/20/2022	60% DESIGN SUBMISSION	RB	JL
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BV	TK
A	02/18/2022	PRELIMINARY PROGRESS	BV	TK

### CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND STA. 72530+00.00 TO STA. 72545+00.00

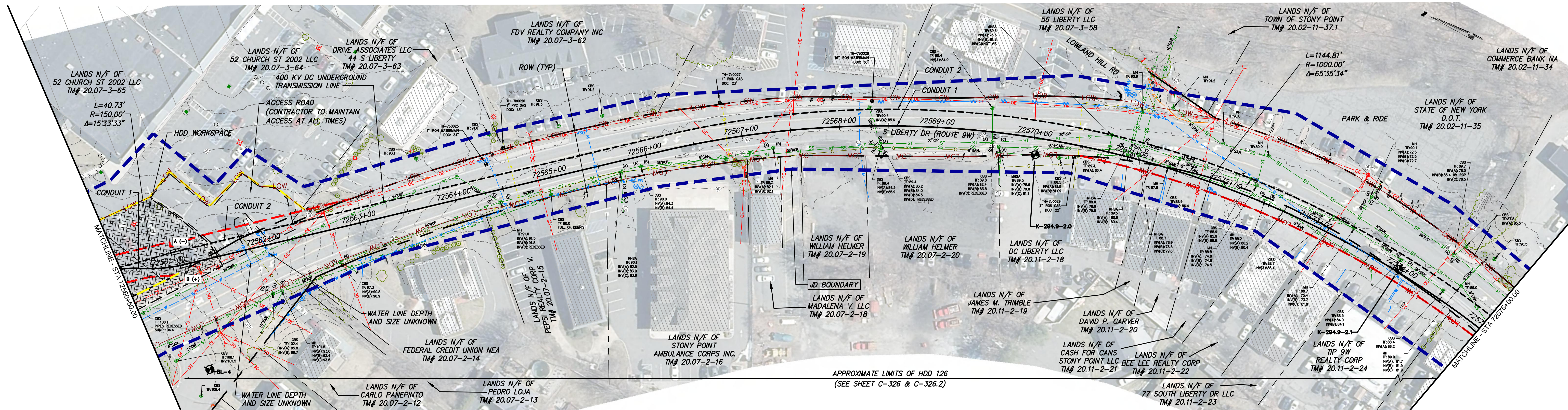
DRAWN BY:	RB	DESIGNED BY:	AC	APPROVED BY:	JL	SCALE:	AS SHOWN	DATE:	04/14/2023
						REV. NO.		SH. NO.	-- OF --

KIEWIT PROJECT NO. 21162  
TT PROJECT NO. 204-3701  
DRAWING NO. C-103

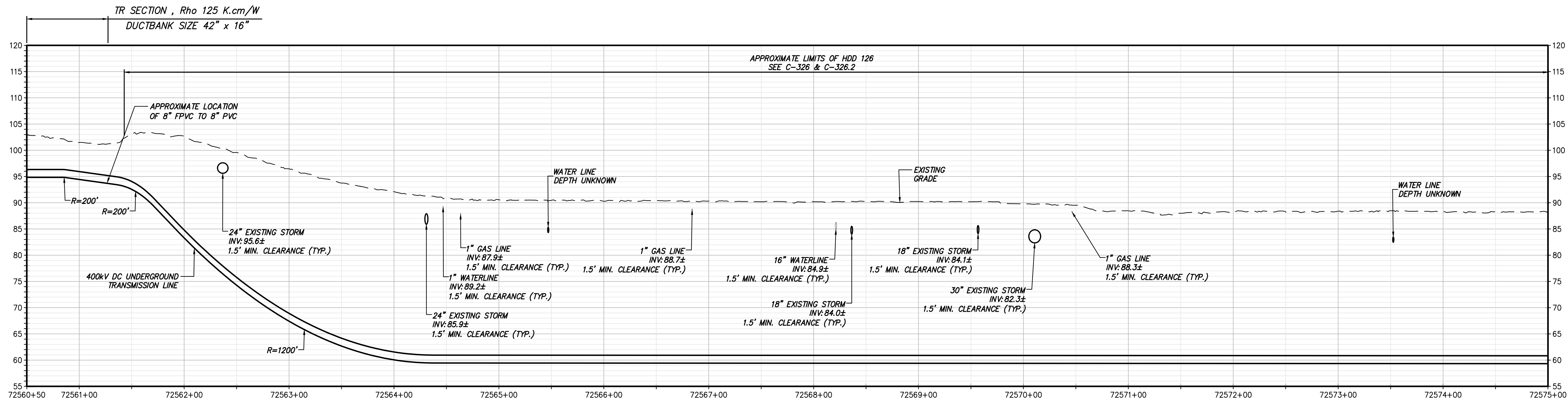






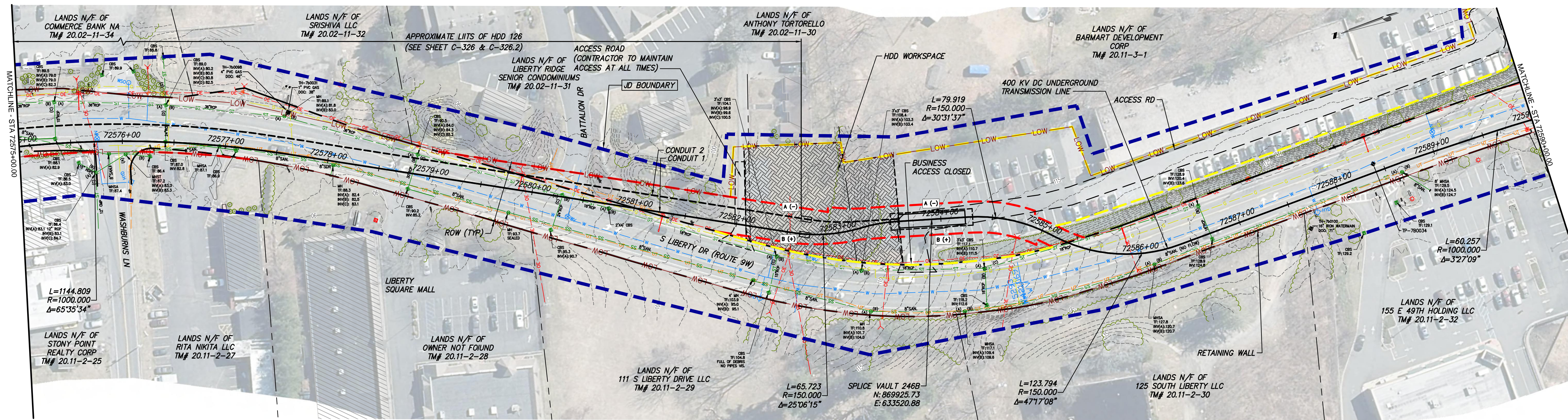


STA. 72560+50.00 TO STA. 72575+00.00 PLAN VIEW  
SCALE: 1" = 50'



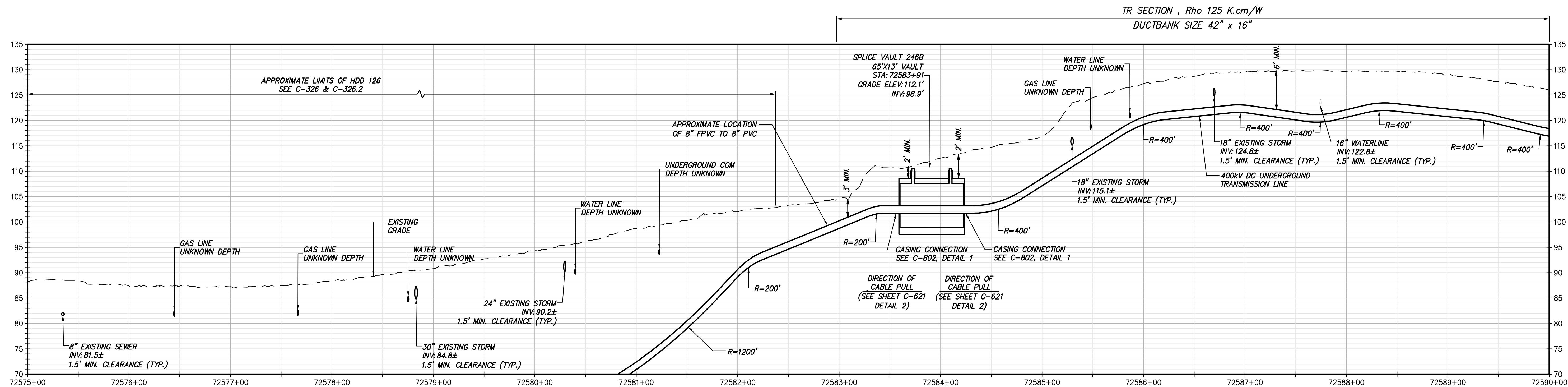
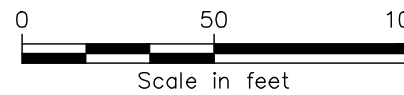
STA. 72560+50.00 TO STA. 72575+00.00 PROFILE VIEW  
SCALE: H: 1" = 50' V: 1" = 10'





STA. 72575+00.00 TO STA. 72590+00.00 PLAN VIEW

SCALE: 1" = 50'

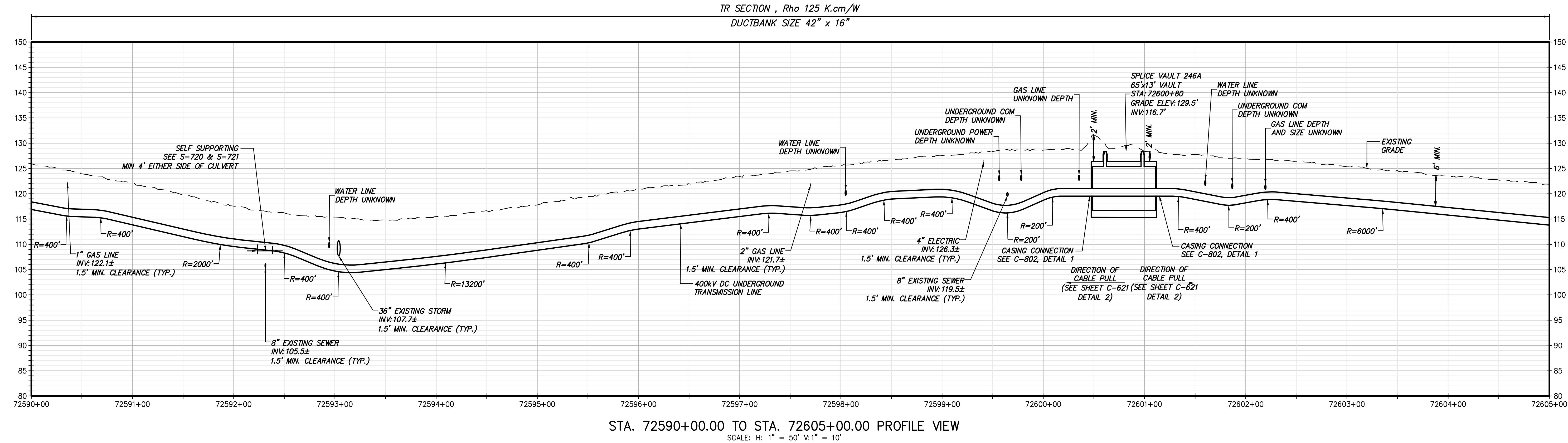
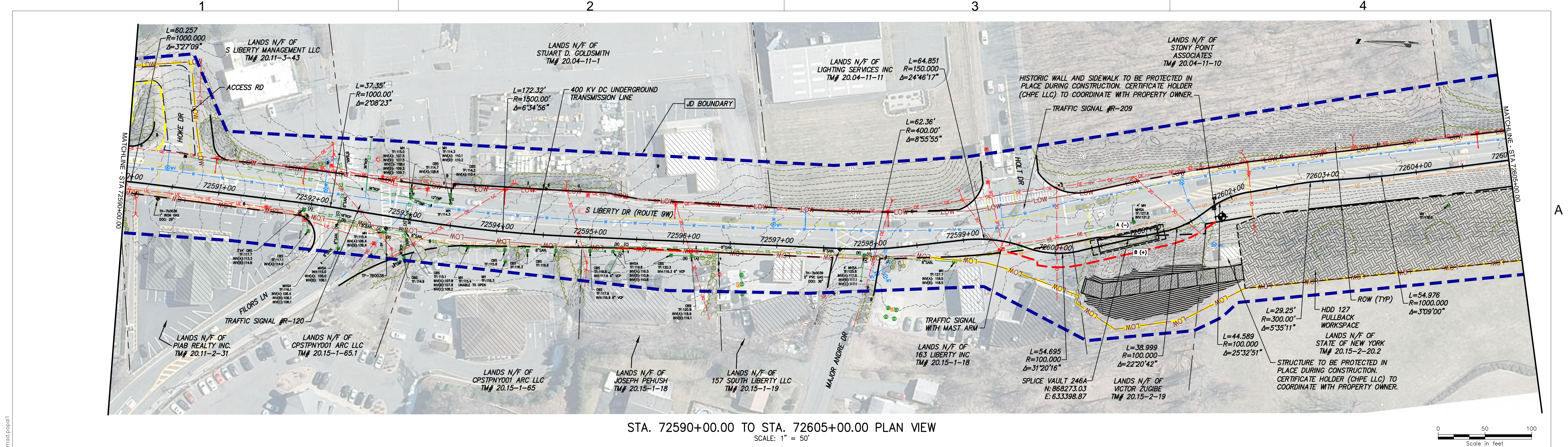


STA. 72575+00.00 TO STA. 72590+00.00 PROFILE VIEW

SCALE: H: 1" = 50' V: 1" = 10'

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
F	04/14/2023	FINAL SUBMISSION	RB	JL
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	RB	JL
D	11/16/2022	DRAFT FINAL SUBMISSION	RB	JL
C	05/20/2022	60% DESIGN SUBMISSION	RB	JL
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BV	TK
A	02/18/2022	PRELIMINARY PROGRESS	BV	TK





Champlain Hudson Power Express

Kiewit

TETRA TECH  
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D	11/16/2022	DRAFT FINAL SUBMISSION	RB	JL
C	05/20/2022	60% DESIGN SUBMISSION	RB	JL
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BV	TK
A	02/18/2022	PRELIMINARY PROGRESS	BV	TK

**CHAMPLAIN HUDSON POWER EXPRESS  
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W:  
ROCKLAND  
STA. 72590+00.00 TO STA. 72605+00.00**

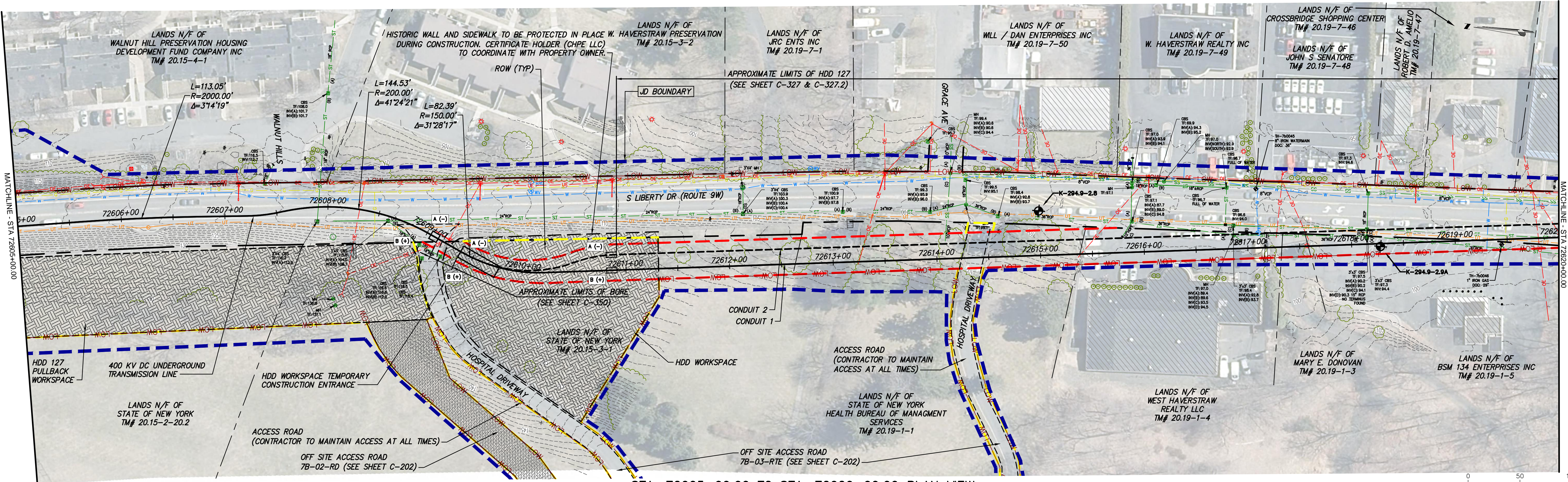
DRAWN BY: RB DESIGNED BY: AC APPROVED BY: JL  
SCALE: AS SHOWN  
REV. NO. F SH. NO.

KIEWIT PROJECT NO. 21162  
TT PROJECT NO. 204-3701  
DRAWING NO. C-107

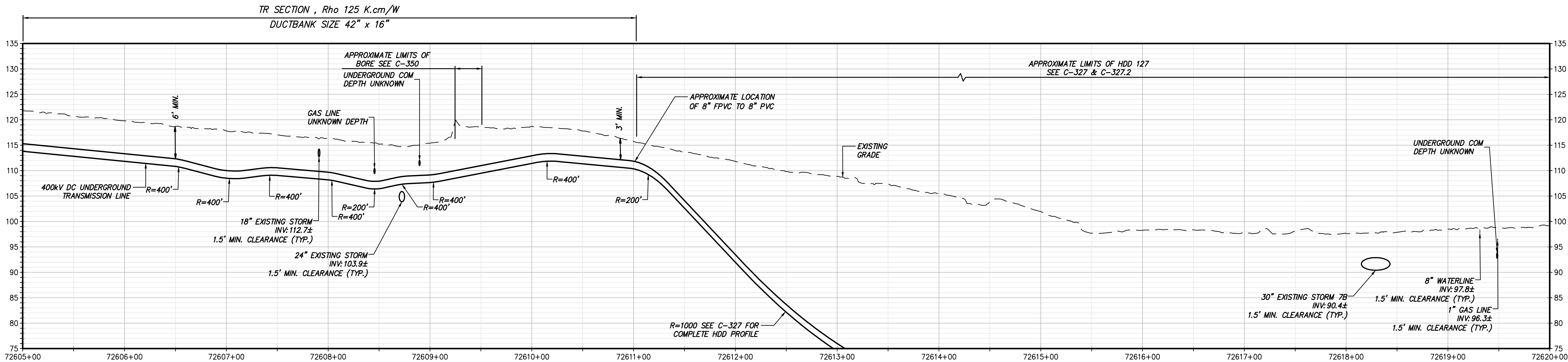
DATE 04/14/2023  
F SH. NO. -- OF --



File: C:\PWORKING\CHPE\CHPE\CHPE14\21162\_P7B\_C-106-11.DWG Saved: 4/13/2023 1:44:37 PM Current User: Sagulo, Sarah LastSavedBy: muhammad.papal



STA. 72605+00.00 TO STA. 72620+00.00 PLAN VIEW  
SCALE: 1" = 50'



STA. 72605+00.00 TO STA. 72620+00.00 PROFILE VIEW  
SCALE: H: 1" = 50' V: 1" = 10'



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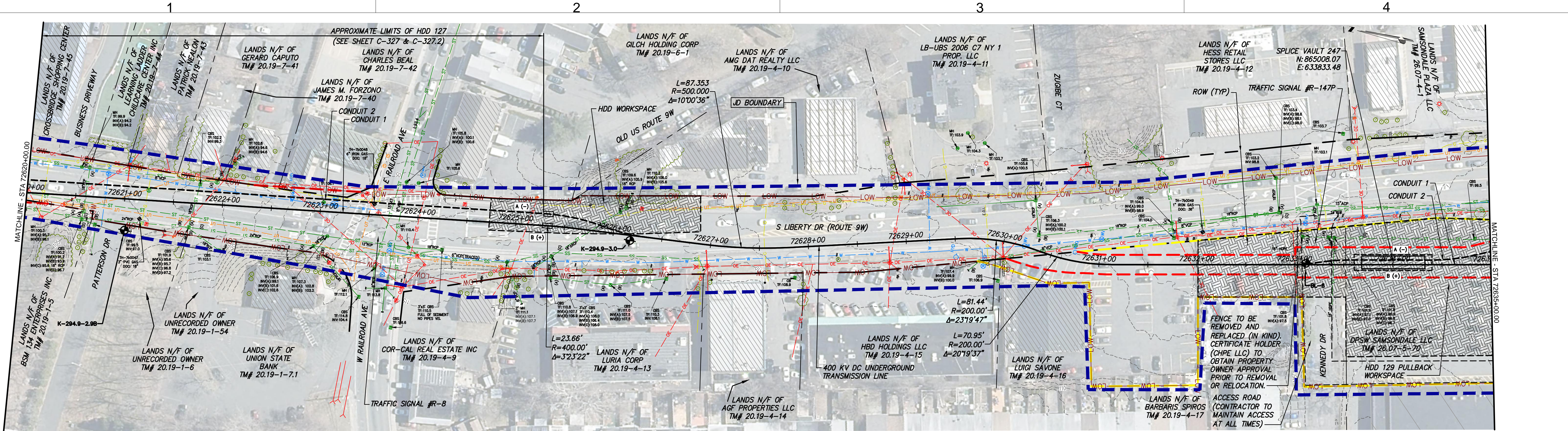
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
----	----	----	----	----
F	04/14/2023	FINAL SUBMISSION	RB	JL
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	RB	JL
D	11/16/2022	DRAFT FINAL SUBMISSION	RB	JL
C	05/20/2022	60% DESIGN SUBMISSION	RB	JL
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BV	TK
A	02/18/2022	PRELIMINARY PROGRESS	BV	TK

CHAMPLAIN HUDSON POWER EXPRESS  
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W:  
ROCKLAND  
STA. 72605+00.00 TO STA. 72620+00.00

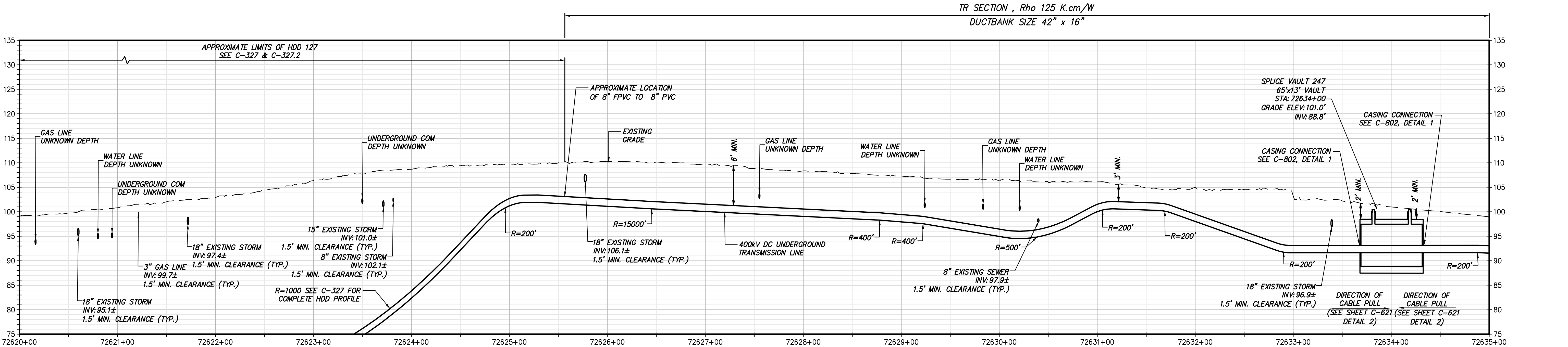
KIEWIT PROJECT NO.	21162
TT PROJECT NO.	204-3701
DRAWING NO.	C-108
DATE	04/14/2023
SH.NO.	-- OF --

DRAWN BY:	RB	DESIGNED BY:	AC	APPROVED BY:	JL	SCALE	AS SHOWN	DATE	04/14/2023
						REV. NO.		F	SH.NO.





STA. 72620+00.00 TO STA. 72635+00.00 PLAN VIEW  
SCALE: 1" = 50'



STA. 72620+00.00 TO STA. 72635+00.00 PROFILE VIEW  
SCALE: H: 1" = 50' V: 1" = 10'



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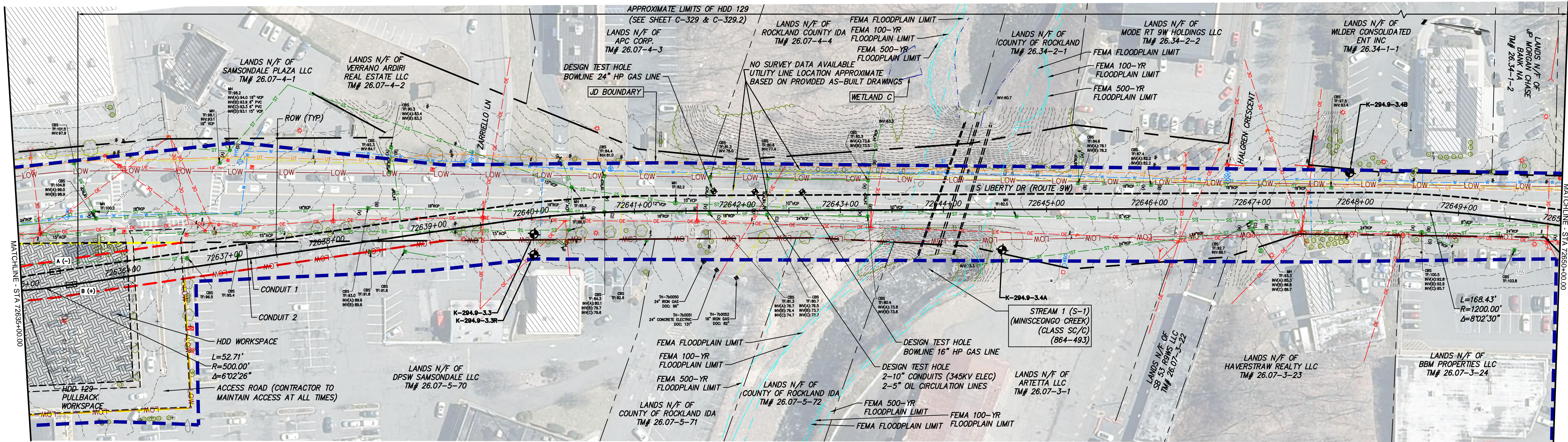
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F	04/14/2023	FINAL SUBMISSION	RB JL
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	RB JL
D	11/16/2022	DRAFT FINAL SUBMISSION	RB JL
C	05/20/2022	60% DESIGN SUBMISSION	RB JL
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BV TK
A	02/18/2022	PRELIMINARY PROGRESS	BV TK
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB APP

CHAMPLAIN HUDSON POWER EXPRESS  
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W:  
ROCKLAND  
STA. 72620+00.00 TO STA. 72635+00.00

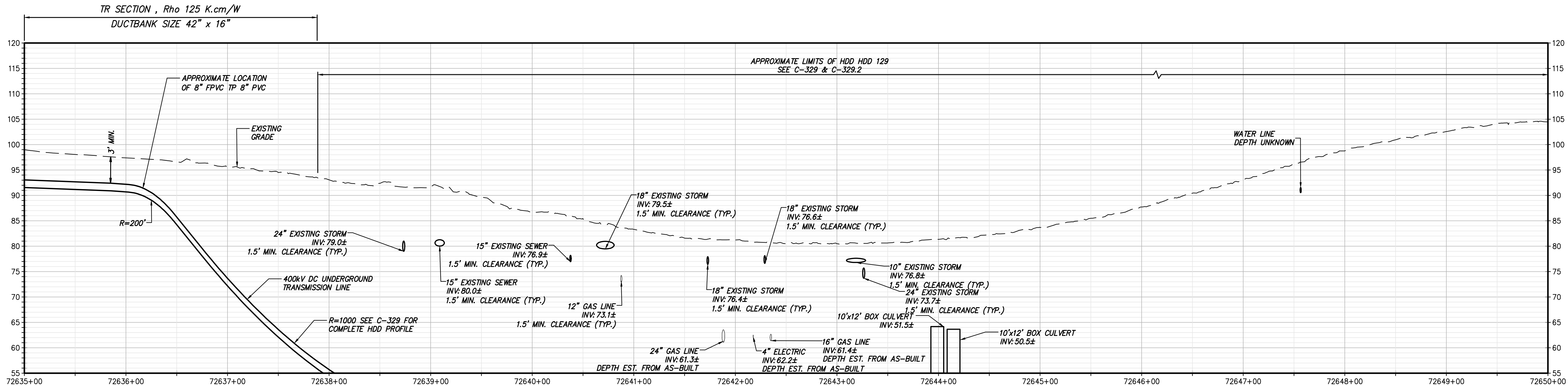
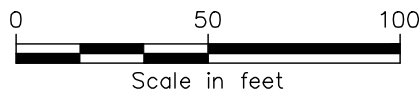
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TT PROJECT NO.	204-3701
DRAWING NO.	C-109
DATE	04/14/2023
SH.NO.	-- OF --

DRAWN BY: RB DESIGNED BY: AC APPROVED BY: JL SCALE: AS SHOWN DATE: 04/14/2023  
REV. NO. F SH.NO. -- OF --





STA. 72635+00.00 TO STA. 72650+00.00 PLAN VIEW  
SCALE: 1" = 50'



STA. 72635+00.00 TO STA. 72650+00.00 PROFILE VIEW  
SCALE: H: 1" = 50' V: 1" = 10'



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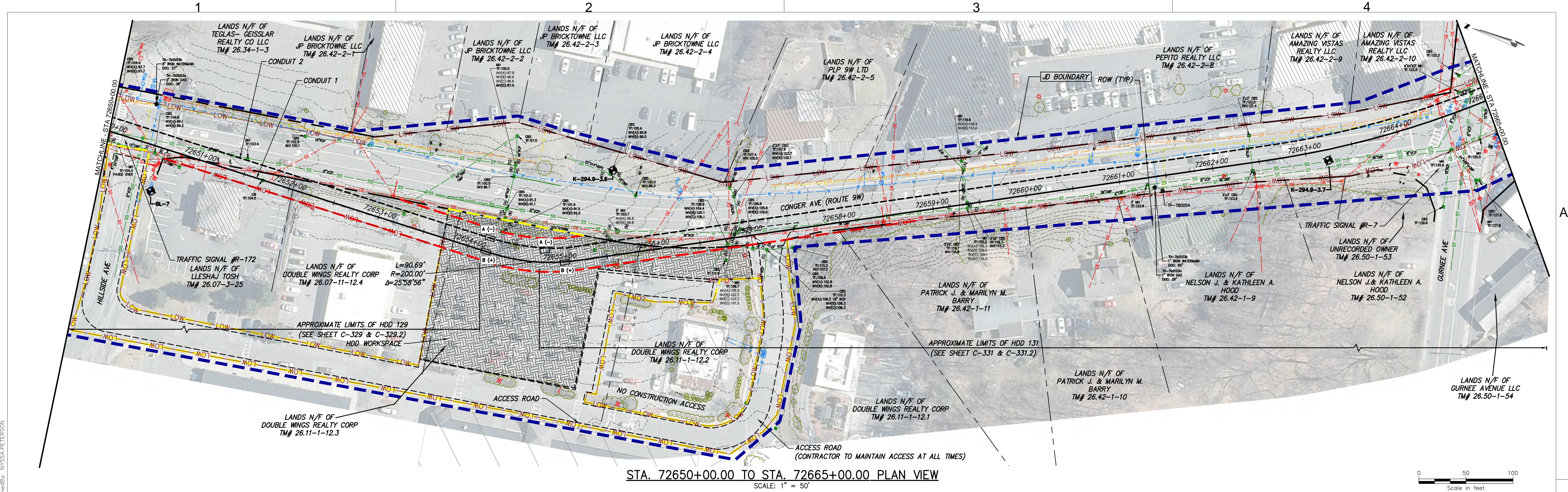
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
F	04/14/2023	FINAL SUBMISSION	RB	JL
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	RB	JL
D	11/16/2022	DRAFT FINAL SUBMISSION	RB	JL
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B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BV	TK
A	02/18/2022	PRELIMINARY PROGRESS	BV	TK

CHAMPLAIN HUDSON POWER EXPRESS  
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W:  
ROCKLAND  
STA. 72635+00.00 TO STA. 72650+00.00

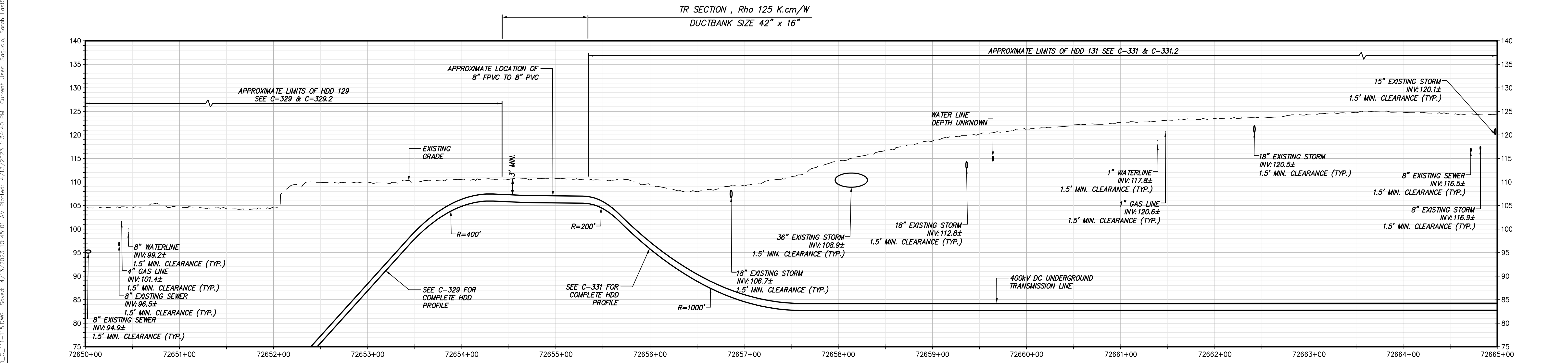
KIEWIT PROJECT NO.	21162
TT PROJECT NO.	204-3701
DRAWING NO.	C-110
DATE	04/14/2023
SH.NO.	-- OF --

DRAWN BY:	RB	DESIGNED BY:	AC	APPROVED BY:	JL	SCALE	AS SHOWN	DATE	04/14/2023
						REV. NO.	F	SH.NO.	-- OF --








STA. 72650+00.00 TO STA. 72665+00.00 PLAN VIEW  
SCALE: 1" = 50'



STA. 72650+00.00 TO STA. 72665+00.00 PROFILE VIEW  
SCALE: H: 1" = 50' V: 1" = 10'



CHAMPLAIN HUDSON POWER EXPRESS  
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W:  
ROCKLAND  
STA. 72650+00.00 TO STA. 72665+00.00

KIEWIT PROJECT NO. 21162  
TT PROJECT NO. 204-3701  
DRAWING NO. C-111

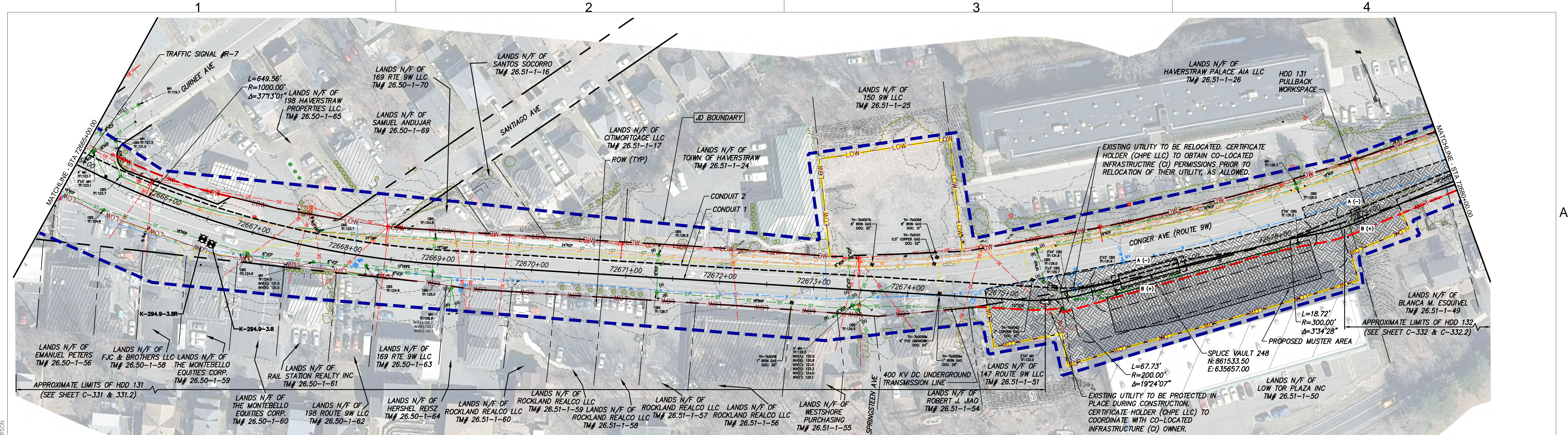
DATE 04/14/2023  
SUBMITTAL / REVISION DESCRIPTION

ISSUED FOR PERMITTING

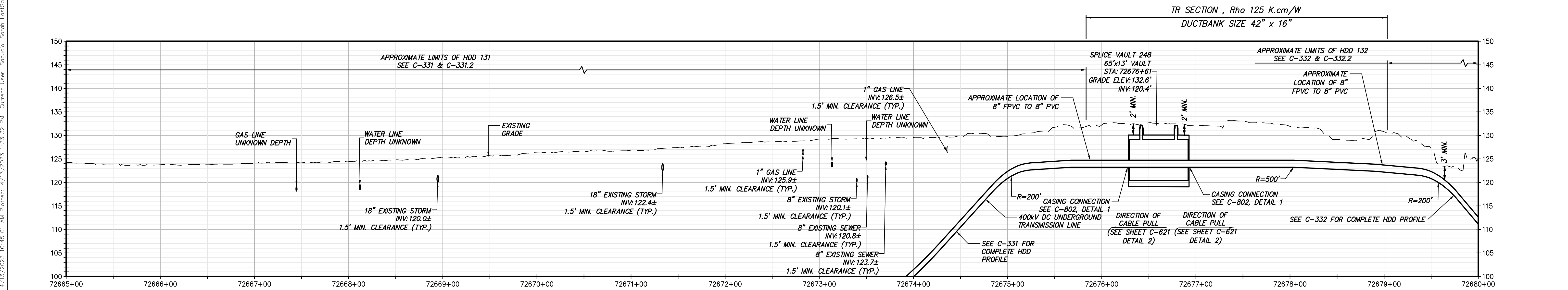
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
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C	05/20/2022	60% DESIGN SUBMISSION	RB	JL
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BV	TK
A	02/18/2022	PRELIMINARY PROGRESS	BV	TK

DRAWN BY: RB  
DESIGNED BY: AC  
APPROVED BY: JL  
SCALE: AS SHOWN  
REV. NO. F  
DATE: 04/14/2023  
SH. NO. -- OF --







STA. 72665+00.00 TO STA. 72680+00.00 PLAN VIEW  
SCALE: 1" = 50'




STA. 72665+00.00 TO STA. 72680+00.00 PROFILE VIEW  
SCALE: H: 1" = 50' V: 1" = 10'



Champlain Hudson Power Express



Kiewit



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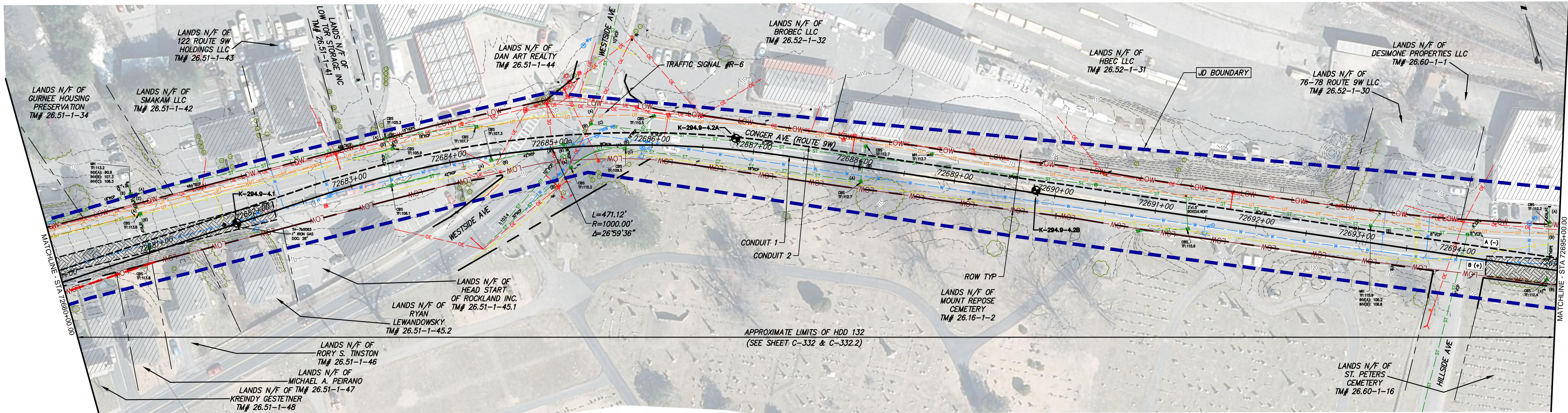
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
F	04/14/2023	FINAL SUBMISSION	RB	JL
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	RB	JL
D	11/16/2022	DRAFT FINAL SUBMISSION	RB	JL
C	05/20/2022	60% DESIGN SUBMISSION	RB	JL
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BV	TK
A	02/18/2022	PRELIMINARY PROGRESS	BV	TK

**CHAMPLAIN HUDSON POWER EXPRESS**  
**SEGMENT 12 (PACKAGE 7B) - ROUTE 9W:**  
**ROCKLAND**  
**STA. 72665+00.00 TO STA. 72680+00.00**

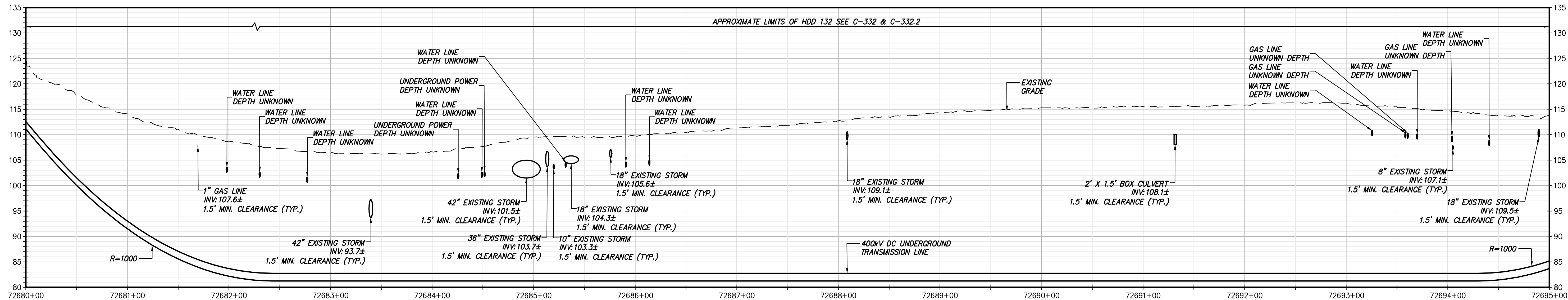
DRAWN BY:	DESIGNED BY:	APPROVED BY:	SCALE	AS SHOWN	DATE
RB	AC	JL	REV. NO.	F	04/14/2023

KIEWIT PROJECT NO. 21162  
TT PROJECT NO. 204-3701  
DRAWING NO. C-112





STA. 72680+00.00 TO STA. 72695+00.00 PLAN VIEW  
SCALE: 1" = 50'



STA. 72680+00.00 TO STA. 72695+00.00 PROFILE VIEW  
SCALE: H: 1" = 50' V: 1" = 10'



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ISSUED FOR PERMITTING

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F	04/14/2023	FINAL SUBMISSION	RB	JL	----
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	RB	JL	----
D	11/16/2022	DRAFT FINAL SUBMISSION	RB	JL	----
C	05/20/2022	60% DESIGN SUBMISSION	RB	JL	----
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BV	TK	----
A	02/18/2022	PRELIMINARY PROGRESS	BV	TK	----
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

CHAMPLAIN HUDSON POWER EXPRESS  
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W:  
ROCKLAND  
STA. 72680+00.00 TO STA. 72695+00.00

KIEWIT PROJECT NO.	21162
TT PROJECT NO.	204-3701
DRAWING NO.	C-113
DRAWN BY:	RB
DESIGNED BY:	AC
APPROVED BY:	JL
SCALE	AS SHOWN
REV. NO.	
DATE	04/14/2023
SH. NO.	-- OF --