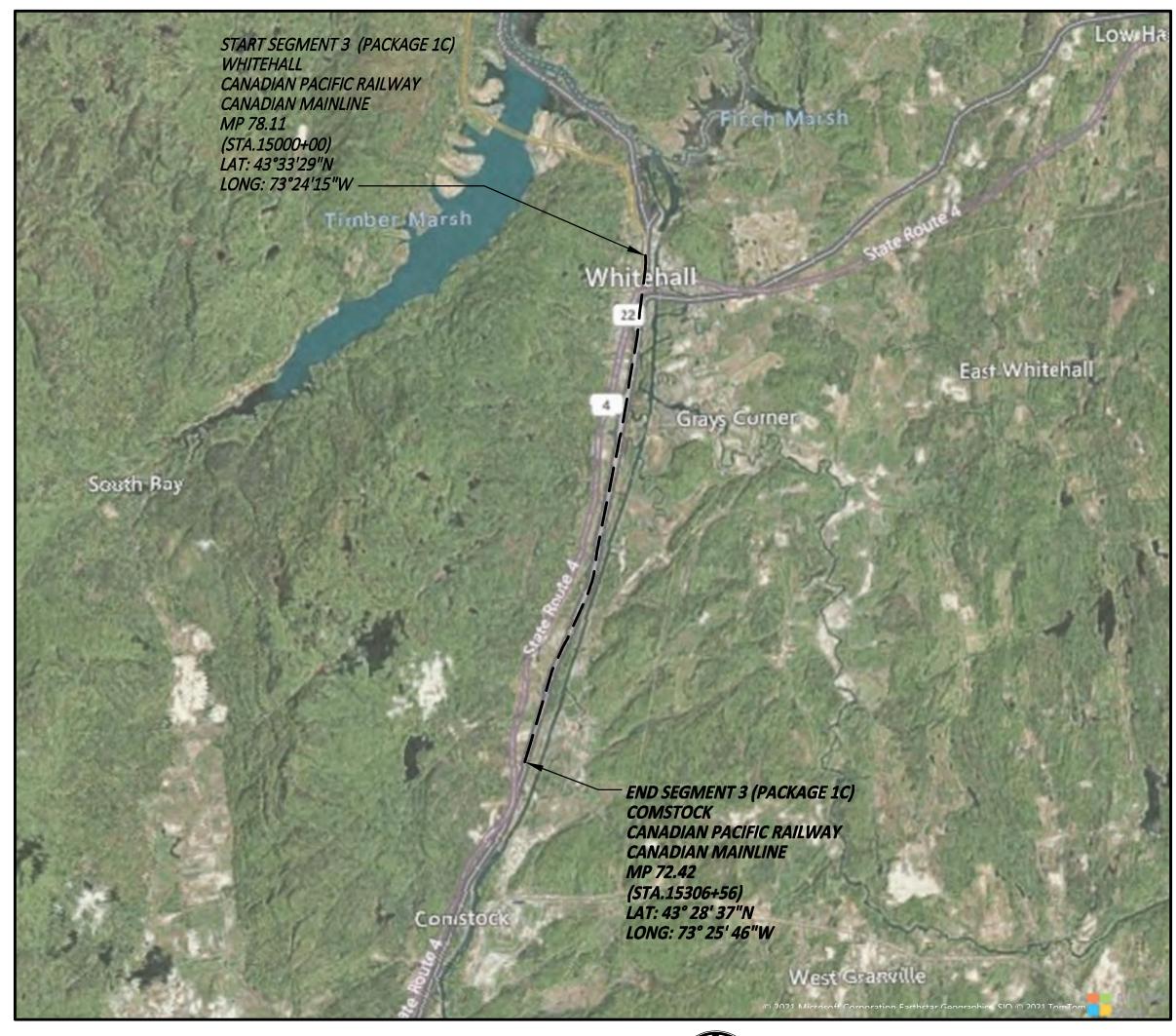
# APPENDIX C: PLAN & PROFILE DRAWINGS, EROSION AND SEDIMENT CONTROL PLANS, AND MAINTENANCE AND PROTECTION OF TRAFFIC PLANS CASE 10-T-0139

# CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 3 (PACKAGE 1C) - WHITEHALL TO FORT ANN WASHINGTON COUNTY, NEW YORK ISSUED FOR CONSTRUCTION SUBMISSION (MARCH 22, 2023)











SCALE: 1" = 5000'

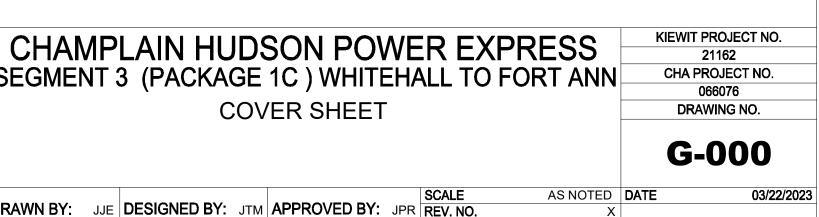


ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMEN'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

IT IS A VIOLATION OF LAW FOR ANY PERSON. UNLESS THEY

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C-407	STA. 15180+00 TO STA. 15210+00 EROSION AND SEDIMENT CONTROL PLAN
C-408	STA. 15210+00 TO STA. 15240+00 EROSION AND SEDIMENT CONTROL PLAN
C-409	STA. 15240+00 TO STA. 15270+00 EROSION AND SEDIMENT CONTROL PLAN
C-410 C-411	STA. 15270+00 TO STA. 15300+00 EROSION AND SEDIMENT CONTROL PLAN STA. 15300+00 TO STA. 15306+59 EROSION AND SEDIMENT CONTROL PLAN
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C-501	WORK ZONE TRAFFIC CONTROL NOTES LEGEND AND ABBREVIATIONS
C-502	WORK ZONE TRAFFIC CONTROL DETAILS
C-503	WORK ZONE TRAFFIC CONTROL DETAILS
C-504	WORK ZONE TRAFFIC CONTROL DETAILS
	PACKAGE 1C: DETAILS: ESC DETAILS
C-601	EROSION AND SEDIMENT CONTROL DETAILS
C-602	EROSION AND SEDIMENT CONTROL DETAILS
C-603	EROSION AND SEDIMENT CONTROL DETAILS
	PACKAGE 1C: DETAILS: EM&CP DETAILS
C-611	WETLAND CROSSING DETAILS
C-612	WATERBAR DETAILS
	ACKAGE 1C: DETAILS: CONSTRUCTION AND INSTALLATION DETAILS
C-621	TRENCHING DETAILS
C-622	TYPICAL ACCESS ROAD CROSS SECTIONS
C-623	TYPICAL ACCESS ROAD CROSS SECTIONS
C-624	TYPICAL CULVERT SECTION (1 OF 3)
C-625	TYPICAL CULVERT SECTION (2 OF 3)
C-626	TYPICAL CULVERT SECTION (3 OF 3)
	PACKAGE 1C: DETAILS: RESTORATION DETAILS
C-631	SURFACE RESTORATION DETAILS
	PACKAGE 1C: DETAILS: HDD DETAILS
C-641	RAIL CROSS SECTION DETAILS HDD 3
C-641.1	RAIL CROSS SECTION DETAILS HDD 3
C-642	RAIL CROSS SECTION DETAILS HDD 4
C-642.1	RAIL CROSS SECTION DETAILS HDD 4
C-643 C-643.1	RAIL CROSS SECTION DETAILS HDD 4A RAIL CROSS SECTION DETAILS HDD 4A
C-643.1	RAIL CROSS SECTION DETAILS HDD 4A RAIL CROSS SECTION DETAILS HDD 5
C-644.1	RAIL CROSS SECTION DETAILS HDD 5 RAIL CROSS SECTION DETAILS HDD 5
C-645	RAIL CROSS SECTION DETAILS HDD 6
C-645.1	RAIL CROSS SECTION DETAILS HDD 6
C-646	RAIL CROSS SECTION DETAILS HDD 7
C-646.1	RAIL CROSS SECTION DETAILS HDD 7
C-647	RAIL CROSS SECTION DETAILS HDD 8
C-647.1	RAIL CROSS SECTION DETAILS HDD 8
	PACKAGE 1C: STRUCTURAL DETAILS
S-711	FRP LINK BOX HANDHOLES
S-720	SELF-SUPPORTING STRUCTURE OVER UTILITES
S-721	SELF-SUPPORTING STRUCTURE DETAILS
S-740	WALL PLAN & ELEVATION I
S-741	WALL PLAN AND ELEVATION II
S-742	WALL PLAN AND ELEVATION III
S-743	WALL PLAN AND ELEVATION IV
S-744	WALL PLAN AND ELEVATION V
S-745	WALL ATTACHMENT SECTION I
S-746	WALL ATTACHMENT SECTIONS II
S-747 S-748	WALL ATTACHMENT SECTIONS III WALL ATTACHEMENT TRANSITION DETAIL
S-748	FRP COMMUNICATIONS HANDHOLES
	PACKAGE 1C: ELECTRICAL DETAILS
C-801	ABOVE GROUND MARKING DETAILS
C-807	SPLICE VAULT AND CABLE MARKING DETAILS
C-808	TYPICAL OPEN PIT SPLICE CASING DETAILS
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C-853	OPEN VAULT WITH FIBER OPTIC HAND HOLE
C-854	FIBER OPTIC HAND HOLE DETAILS
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C-856	FIBER OPTIC SLACK ENCLOSURE DETAIL
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Sheet Number	SHEET LIST TABLE Sheet Title
Sneet Number	PACKAGE 1C: GENERAL SHEETS
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G-001	SHEET INDEX
G-002	GENERAL NOTES
G-003	PACKAGE SPECIFIC NOTES
G-004	LEGEND AND ABBREVIATIONS
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G-011	EM&CP DATA TABLES (1 OF 3)
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G-013	EM&CP DATA TABLES (3 OF 3)
G-020	RESTORATION NOTES
	PACKAGE 1C: PLAN AND PROFILE SHEETS
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C-102	STA. 15015+00 TO STA 15030+00 PLAN AND PROFILE
C-103	STA. 15030+00 TO STA 15045+00 PLAN AND PROFILE
C-104 C-105	STA. 15045+00 TO STA 15060+00 PLAN AND PROFILE           STA. 15060+00 TO STA 15075+00 PLAN AND PROFILE
C-105	STA. 15000+00 TO STA 150/3+00 PLAN AND PROFILE STA. 15075+00 TO STA 15090+00 PLAN AND PROFILE
C-108 C-107	STA. 15075+00 TO STA 15090+00 PLAN AND PROFILE STA. 15090+00 TO STA 15105+00 PLAN AND PROFILE
C-107	STA. 15050+00 TO STA 15103+00 PLAN AND PROFILE STA. 15105+00 TO STA 15120+00 PLAN AND PROFILE
C-109	STA. 15120+00 TO STA 15135+00 PLAN AND PROFILE
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C-111	STA. 15150+00 TO STA 15165+00 PLAN AND PROFILE
C-112	STA. 15165+00 TO STA 15180+00 PLAN AND PROFILE
C-113	STA. 15180+00 TO STA 15195+00 PLAN AND PROFILE
C-114	STA. 15195+00 TO STA 15210+00 PLAN AND PROFILE
C-115	STA. 15210+00 TO STA 15225+00 PLAN AND PROFILE
C-116	STA. 15225+00 TO STA 15240+00 PLAN AND PROFILE
C-117	STA. 15240+00 TO STA 15255+00 PLAN AND PROFILE
C-118	STA. 15255+00 TO STA 15270+00 PLAN AND PROFILE
C-119	STA. 15270+00 TO STA 15285+00 PLAN AND PROFILE
C-120	STA. 15285+00 TO STA. 15300+00 PLAN AND PROFILE
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C-210	PACKAGE 1C: ACCESS AND CONSTRUCTION STAGING PLANS ACCESS ROAD OFF POULTNEY STREET AT STA. 15036+50
C-210 C-211	ACCESS ROAD OFF POOLINET STREET AT STA. 15050+50 ACCESS ROAD OFF NYS ROUTE 4 AT STA. 15069+00
C-212	ACCESS ROAD OFF NYS ROUTE 4 AT STA. 15165+00
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C-305A.1 C-306	PLAN AND PROFILE - HDD 6, CONDUIT 2 PLAN AND PROFILE - HDD 7, CONDUIT 1
C-306	PLAN AND PROFILE - HDD 7, CONDUIT 1 PLAN AND PROFILE - HDD 7, CONDUIT 1
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C-402	STA. 15030+00 TO STA. 15060+00 EROSION AND SEDIMENT CONTROL PLAN
C-403	STA. 15060+00 TO STA. 15090+00 EROSION AND SEDIMENT CONTROL PLAN
C-404	STA. 15090+00 TO STA. 15120+00 EROSION AND SEDIMENT CONTROL PLAN
C-405	STA. 15120+00 TO STA. 15150+00 EROSION AND SEDIMENT CONTROL PLAN
C-406	STA. 15150+00 TO STA. 15180+00 EROSION AND SEDIMENT CONTROL PLAN







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	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	-						SHEET INDEX DRAWING NO. G-001
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### GENERAL NOTES: 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.

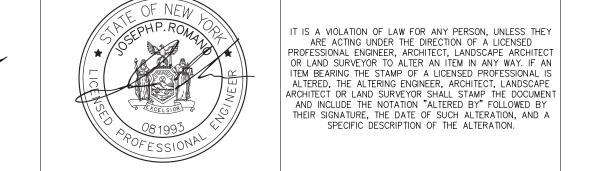
- 3. THE CONTRACTOR SHALL RESTORE LAWNS, DRIVEWAYS, CULVERTS, SIGNS AND OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD A CONDITION AS BEFORE BEING DISTURBED AS DETERMINED BY THE ENGINEER.
- 4. THE CONTRACTOR AND/OR CERTIFICATE HOLDER SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING 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 CP 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 AND COVER TO BE SET AT ELEVATIONS CONSISTENT WITH THE PROJECT DETAILS.
- 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 ALL OPEN EXCAVATIONS TO BE PROTECTED BY CONCRETE BARRIERS (ON BOTH SIDES AT COMMERCIAL AND/OR RESIDENTIAL DRIVEWAYS) 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 RESIDENTIAL AND COMMERCIAL PROPERTIES 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. SERVICE CONNECTIONS TO BE FIELD LOCATED PRIOR TO CONSTRUCTION.
- 24. REFER TO EM&CP DOCUMENT FOR ADDITIONAL ITEMS FOR ALL GENERAL NOTES.
- 25. PVC/HDPE TRANSITION COUPLING LOCATION TO BE COORDINATED BETWEEN TRENCH AND HDD CONTRACTORS.





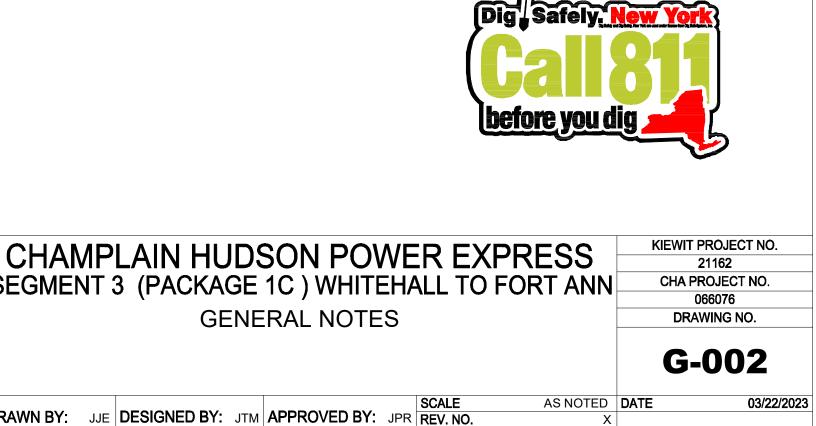




# EROSION CONTROL NOTES

- 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 FOLLOW 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. FOR DISTURBED WETLAND AND SENSITIVE AREAS, AREA TO BE RESTORED IN ACCORDANCE WITH THE EM&CP SECTIONS 9.1 AND 14.
- 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 9.1 AND 14.
- 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 REASONABLE 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.
- 14. CONCRETE WASHOUTS DEPICTED ON PLANS ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD LOCATE WASHOUTS AS NECESSARY. FIELD LOCATED WASHOUTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE EM&CP AND SHALL BE A MINIMUM OF 100' FROM ADJACENT WETLANDS AND 200' FROM ANY EXISTING WELLS.

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# CANADIAN PACIFIC RAILWAY (CPR) NOTES:

- 1. THE DESIGN WITHIN THE RAILROAD RIGHT OF WAY INCORPORATES
- ASPECTS OF THE FOLLOWING STANDARDS: 1.a. CANADIAN PACIFIC RAILWAY - UTILITY SPECIFICATIONS AND PROCESS APPLICATION (US)
- HTTPS: //WWW.CPR.CA/EN/CHOOSE-RAIL-SITE/DOCUMENTS/ CP-UTILITY-SPECS-AND-APPLICATION-PROCESS.PDF 1.b. AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY
- ASSOCIATION (AREMA) MANUAL FOR RAILWAY ENGINEERING.
- 1.c. BNSF/UP GUIDELINES FOR TEMPORARY SHORING.
- 2. SEE ADJACENT CANADIAN PACIFIC RAILWAY (CPR) GENERAL CONSTRUCTION NOTES.

# GENERAL HORIZONTAL DIRECTIONAL DRILLING NOTES:

- 1. UNLESS NOTED OTHERWISE ON C-300 SERIES HDD PLAN AND PROFILES, EACH HDD CONSISTS OF A PAIR OF (2) HVDC ELECTRICAL TRANSMISSION CABLES HOUSED IN INDIVIDUAL 10" DIAMETER CASINGS/CONDUITS, HDPE DR9, AND A THIRD 2" DIAMETER CASING/CONDUIT, HDPE DR9, WILL BE BUNDLED IN PULLBACK WITH ONE OF THE 10" CASINGS/CONDUITS FOR A TELECOMMUNICATION LINE.
- 2. THERMAL RESISTIVITY (TR) HORIZONTAL SPACING TO BE MAINTAINED IN PLAN BETWEEN CONDUIT 1 AND CONDUIT 2 IS CALLED OUT AS "TRDS" APPENDED TO A DIMENSION IN BETWEEN CONDUITS IN PLAN VIEWS, WHERE TRDS IS THE THERMAL RESISTIVITY DESIGN SPACING. TRDS IS DERIVED FROM AN ASSIGNED RHO (GREEK CHARACTER r FOR TR) AND ON DESIGN DEPTH FOR THE PAIR OF CONDUITS IN SHOWN PROFILE. RHO AND TRDS ARE DETERMINED BY ELECTRICAL ENGINEERING ON THE BEHALF OF THE OWNERS.
- 3. THE HDD CONTRACTOR SHALL HOLD THE TRDS IN THEIR OPERATIONS WITHIN THE HORIZONTAL TOLERANCES SPECIFIED IN SECTION 330507.13. IN CONSTRUCTION, THE SPACING SHALL BE CONTROLLED, OBSERVED, AND MAINTAINED SUCH THAT THE AS-BUILT SPACING SHALL NEVER BE LESS THAN TRDS MINUS 10 FEET, ABSOLUTE MINIMUM.
- 4. HDD SUBCONTRACTOR SHALL COORDINATE WITH OVERHEAD ELECTRIC OWNER/OPERATOR(S) TO HAVE TEMPORARY PROTECTIVE SLEEVES INSTALLED ON OVERHEAD POWER LINES IN THE VICINITY OF WORKZONES.
- 5. STANDARD PENETRATION TEST, SPT, N-VALUES SHOWN ON THE C-300 SERIES DRAWINGS ARE NOT CORRECTED FOR THE SAMPLER SIZE OR HAMMER ENERGY. REFERENCE BORING LOGS AND GEOTECHNICAL REPORTS FOR DETAILED INFORMATION.
- 6. WHEN CONDUCTOR CASINGS OR CONDUITS ARE USED TO MANAGE INADVERTENT RETURNS, THE CONDUCTOR SHALL BE REMOVED IMMEDIATELY AFTER THE PULL BACK OF THE MAIN CONDUIT OR CONDUIT BUNDLE. A WRITTEN PLAN MUST BE SUBMITTED SEEKING ENGINEERING APPROVAL OF THE MATERIAL USED TO REPLACE THE RESIDUAL DRILLING FLUID WHEN FILLING THE ANNULAR SPACE BETWEEN THE CONDUIT OR CONDUIT BUNDLE AND THE NATIVE SOILS LEFT AFTER CONDUCTOR CASING EXTRACTION.
- FOR WORKZONES THAT ARE ADJACENT TO OR IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC WHERE EQUIPMENT MUST BE MANEUVERED, THE HDD SUBCONTRACTOR SHALL COORDINATE WITH ELECTRIC OWNER/OPERATOR TO ENSURE THAT ALL OSHA MANDATED CLEARANCES ARE OBSERVED AND MAINTAINED WITH THE INSTALLATION OF HIGH VISIBILITY RUBBER SLEEVES FOR VISUAL INDICATION PURPOSES. ADDITIONAL SPOTTERS SHOULD BE CONSIDERED.
- WHEN AN HDD WORK ZONE OR WORK AREA CROSSES, OVERLAPS, OR IMPACTS DESIGNATED WETLANDS, RESTORATION OF THOSE WETLANDS SHALL BE INITIATED UPON COMPLETION OF WORK USING ACCEPTED ENVIRONMENTAL BEST MANAGEMENT PRACTICES (BMP). WORK ZONES ARE CONSIDERED AN EXTENSION OF ACCESS ROADS. TIMBER MATTING, AS SHOWN AND NOTED ON WETLAND CROSSING DETAILS, SHEET C-611, OPTION "A" AND/OR OPTION "B" ADAPTED TO THE SITE-SPECIFIC NEEDS AND ADJACENT ACCESS ROADS, SHOULD BE USED.
- 9. ABANDON UTILITY POLES THAT ARE ENCOUNTERED WITHIN THE RAILROAD ROW AND BOUNDARY BY THE HDD SUBCONTRACTOR WITHIN WORK ZONES, IMMEDIATELY ADJACENT TO A WORK ZONE, OR THAT OTHERWISE OBSTRUCT PREPARATION OF, OR USE OF, A WORK ZONE AND OR FABRICATION OF THE PULLBACK STRING OF HDPE CONDUIT(S) SHALL BE REMOVED AND DISPOSED OF BY OTHERS.

# CANADIAN PACIFIC RAILWAY (CPR) - GENERAL CONSTRUCTION NOTES

### CONSTRUCTION REQUIREMENTS 1. LOCATES & UTILITIES

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

# 2. SETBACKS

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

## **3. CROSSING TRACKS**

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

# 4. HOUSEKEEPING

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

# 5. WEATHER RESTRICTIONS

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

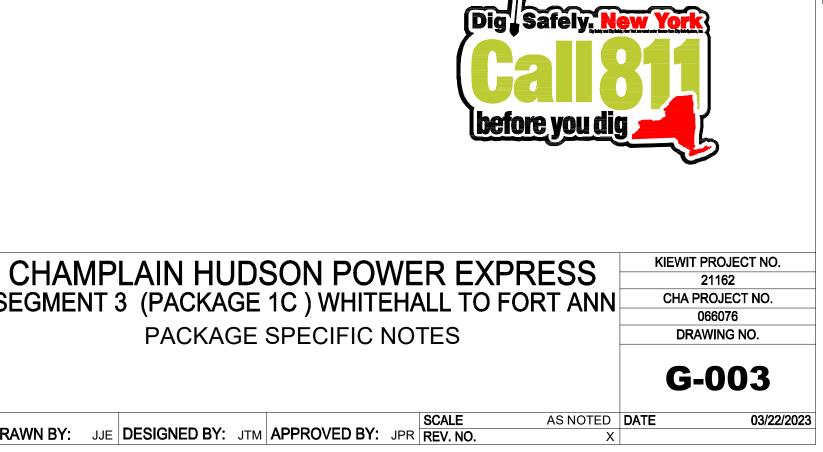




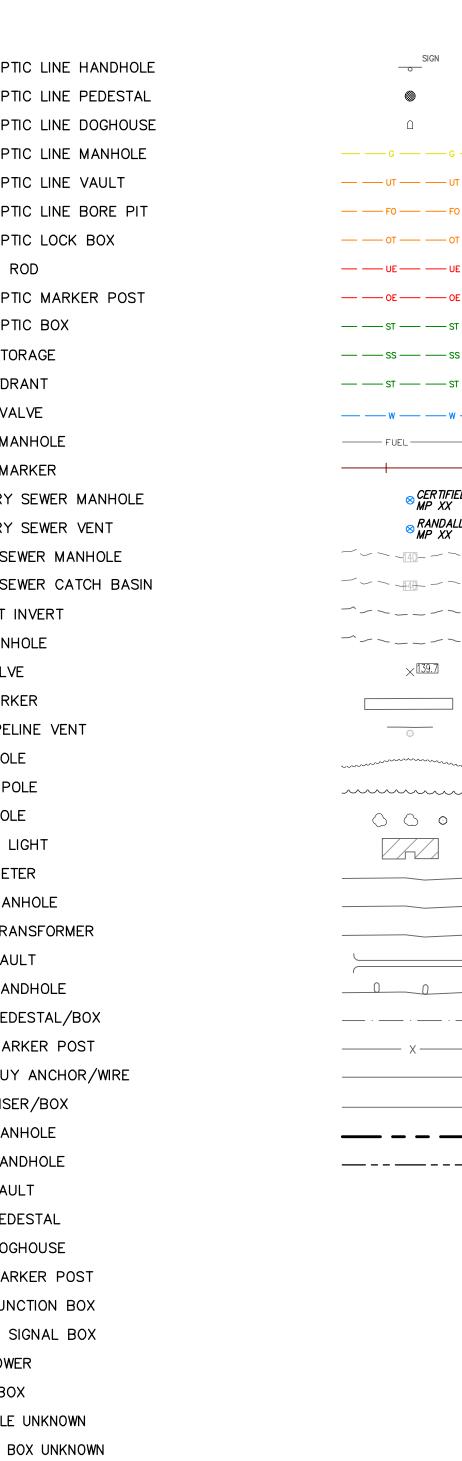




						_ <b>(</b>
TE OF NEW LOCAL						
ARE ACTING UNDER THE DIRECTION OF A LICENSED						SE
PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN						-
ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE						-
ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A						-
SPECIFIC DESCRIPTION OF THE ALTERATION.	0	03/22/2023	ISSUED FOR CONSTRUCTION SUBMISSION	JTM	JPR	1
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HH	EXIST. FIBER OPTIC LINE HAN
Р	EXIST. FIBER OPTIC LINE PED
DH	EXIST. FIBER OPTIC LINE DOG
(MH)	EXIST. FIBER OPTIC LINE MAN
	EXIST. FIBER OPTIC LINE VAU
(BP)	EXIST. FIBER OPTIC LINE BOR
LB	EXIST. FIBER OPTIC LOCK BO
+₩	EXIST. GROUND ROD
• FIBER • MARK	EXIST. FIBER OPTIC MARKER
FIBER BOX	EXIST. FIBER OPTIC BOX
(100)	EXIST. FIBER STORAGE
-Q- <sup>HYD</sup>	EXIST. FIRE HYDRANT
⊗ <sup>₩V</sup>	EXIST. WATER VALVE
Ŵ	EXIST. WATER MANHOLE
WATER	
ф MARK	EXIST. WATER MARKER
SS VENT	EXIST. SANITARY SEWER MAN
	EXIST. SANITARY SEWER VEN
57	EXIST. STORM SEWER MANHO
CB	EXIST. STORM SEWER CATCH
< <sup>INV.</sup>	EXIST. CULVERT INVERT
G	EXIST. GAS MANHOLE
€ <sub>gv</sub>	EXIST. GAS VALVE
GAS MARK	EXIST. GAS MARKER
VENT	EXIST. GAS PIPELINE VENT
ш. Ш.	
ф , up	EXIST. LIGHT POLE
Ø <sup>UP</sup>	EXIST. UTILITY POLE
Ø PP	EXIST. ELEC. POLE
⊗	EXIST. TRAFFIC LIGHT
Ε	EXIST. ELEC. METER
E	EXIST. ELEC. MANHOLE
TR	EXIST. ELEC. TRANSFORMER
V	EXIST. ELEC. VAULT
нн	EXIST. ELEC. HANDHOLE
P	EXIST. ELEC. PEDESTAL/BOX
LEC	EXIST. ELEC. MARKER POST
♦ MARK	
_	EXIST. ELEC. GUY ANCHOR/W
Ī	EXIST. TELE. RISER/BOX
	EXIST. TELE. MANHOLE
НН	EXIST. TELE. HANDHOLE
V	EXIST. TELE. VAULT
Ρ	EXIST. TELE. PEDESTAL
DH	EXIST. TELE. DOGHOUSE
TELEPHONE     MARK	EXIST. TELE. MARKER POST
	EXIST. TELE. JUNCTION BOX
ТВ	EXIST. TRAFFIC SIGNAL BOX
ૣૢૢૢૢૢૢૺ	EXIST. CELL TOWER
ÇE T	EXIST. CABLE BOX
	EXISTING MANHOLE UNKNOWN
U	EXISTING UTILITY BOX UNKNOWN
$\triangle$	EXISTING ANTENNA
CAPPED IRON ROD	EXISTING CAPPED IRON ROD
O IRON PIPE	EXISTING IRON PIPE
CONCRETE BOUNDARY	EXISTING CONCRETE MONUMENT
OPOST	EXISTING POST
4	EXISTING REFLECTOR MARKER
, (SYM.)	EXISTING SYMBOL
· - · · · · · · · · · · · · · · · · · ·	



CION	
SIGN	EXISTING SIGN
۲	EXIST. STRUCTURE POS
۵	EXIST. STRUCTURE MAIL
G G	EXIST. GAS LINE
UT UT	EXIST. UNDERGROUND
FO FO	EXIST. FIBER OPTIC
то — то — то —	EXIST. OVERHEAD TELE
UE UE	EXIST. UNDERGROUND E
OE OE	EXIST. OVERHEAD ELEC
ST ST	EXIST. CULVERT
ss ss	EXIST. SANITARY SEWER
ST ST	EXIST. STORM SEWER
ww	EXIST. POTABLE WATER
FUEL	EXIST. FUEL LINE
	EXIST. RAILROAD TRAC
⊗ CERTIFIED ROUTE MP XX	CERTIFIED ROUTE PROVIDE
⊗ RANDALL PREFERRED MP XX	RANDALL PREFERRED PRO
	EXIST. CONTOUR, INDEX
· · · · · · · · · · · · · · · · · · ·	EXIST. CONTOUR, DEPRES
	EXIST. CONTOUR, INTERME
	EXIST. CONTOUR, DEPRES
$\times^{139.7}$	EXIST. SPOT ELEVATION
	EXIST. LANDSCAPE / STO
$\odot$	EXIST. NATURAL BOULD
·····	EXIST. NATURAL SHRUE
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	EXIST. NATURAL TREE
$\bigcirc \bigcirc \bigcirc$	EXIST. NATURAL SINGLE
	EXIST. STRUCTURAL BU
	EXIST. PAVED DRIVE
	EXIST. PAVED ROAD
	EXIST. PAVED SHOULDE
	EXIST. PAVED SIDEWAL
0	EXIST. GUARDRAIL
	EXIST. TRAIL
X	EXIST. FENCE
	EXIST. WALL
	EXIST. RETAINING WALL
	EXIST. RIGHT-OF-WAY
	EXIST. ABUTTER

NOTES:

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









# LEGEND & ABBREVIATIONS

THE

++××−#

SIGN
RUCTURE POST
RUCTURE MAILBOX
AS LINE
IDERGROUND TELE.
BER OPTIC
/ERHEAD TELE.
IDERGROUND ELEC.
/ERHEAD ELEC.
JLVERT
ANITARY SEWER
ORM SEWER
DTABLE WATER LINE
JEL LINE
AILROAD TRACK
ROUTE PROVIDED BY CHPE KMZ
PREFERRED PROVIDED BY CHPE KMZ
NTOUR, INDEX
NTOUR, DEPRESSION INDEX
NTOUR, INTERMEDIATE
NTOUR, DEPRESSION INTERMEDIATE
DT ELEVATION
NDSCAPE / STORAGE AREA
ATURAL BOULDER
ATURAL SHRUB LINE
ATURAL TREE LINE
ATURAL SINGLE TREE/BUSH
RUCTURAL BUILDING
AVED DRIVE
AVED ROAD
AVED SHOULDER
AVED SIDEWALK
JARDRAIL
RAIL
NCE
ALL
TAINING WALL

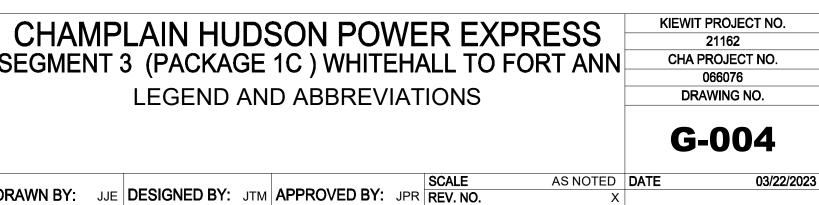
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LOW-
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CP RAIL
CP RAIL MP XX
Ý

EXIST. WETLANDS
EXIST. WETLAND FLAG
PEM – PALUSTRINE EMERGENT
PSS – PALUSTRINE SCRUB-SHRUB
PFO – PALUSTRINE FORESTED
PUB - PALUSTRINE UNCONSOLIDATED BOTTOM
L1 – LACUSTRINE LIMNETIC
L2 – LACUSTRINE LITTORAL
NYSDEC FWW 100-FOOT ADJACENT BUFFER AREA
GIS HISTORICAL WETLAND BOUNDARY
JD BOUNDARY
PROP. WETLAND PROTECTION FENCE
PROP. COMPOST FILTER SOCK (OR SILT SOCK)
PROP. TEMP MAJOR CONTOUR
PROP. TEMP MINOR CONTOUR
PROP. LIMITS OF WORK/DISTURBANCE
PROP. LIMITS OF CLEARING/LIMITS OF WORK IN CLEARING AREAS
PROP. CONCRETE WASHOUT
PROP. TEMP ACCESS ROAD RTE (EXISTING ROAD OR SURFACE)
PROP. TEMP REFURBISHED ACCESS ROAD
PROP. TEMP ACCESS ROAD OR OFF SITE ACCESS ROAD
PROP. TEMP TIMBER MATTING OR TEMP GEOTEXTILE FABRIC AND STONE
PROP. SPLICE LOCATION
PROP. SPLICE VAULT
PROP. LINK BOX HANDHOLE
PROP. FIBER SPLICE HANDHOLE
PROP. BORING LOCATION
PROP. ALIGNMENT STATIONING
PROP. ALIGNMENT CENTERLINE
PROP. LAYDOWN YARDS, PARKING, STORAGE & MUSTER AREA
PROP. WORK AREAS
PROP. TEMP EASEMENT
PROP. PERM EASEMENT
PROP. TEMP ACCESS EASEMENT
CP RAIL MP CALL OUT

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TE OF NEW L							
SEPHI MAN	IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED DEOFESSIONAL FORMER APOLITECT LANDSCAPE APOLITECT						SE
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APP	APPROVED
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
DB	DESIGNED BY
DEC	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DEG	DEGREES
DR	DRIVE
DZ	DEVIATION ZONE
E	EASTING
ELECTRIC	ELECTRIC CABLE
ELEV	ELEVATION
EXIST	EXISTING
FIBER	FIBER OPTIC CABLE
FT	FEET
GAS	GAS PIPE
Н	HORIZONTAL
HDD	HORIZONTAL DIRECTIONAL DRILLING
HVDC	HIGH-VOLTAGE DIRECT CURRENT TRANSMISSION LINE
INV	INVERT ELEVATION
LOW	LIMITS OF WORK
LT	LEFT
МАХ	MAXIMUM
MIN	MINIMUM
Ν	NORTHING
NO	NUMBER
NY	NEW YORK
P#	PACKAGE #
PERM	PERMANENT
PROP.	PROPOSED
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REV	REVISION
ROW	RIGHT-OF-WAY
RT	RIGHT
RTE	ROUTE
SEWER	SANITARY SEWER PIPE
SH	SHEET
ST	STREET
STA	STATION
STORM	STORM DRAIN PIPE
TELECOM	TELECOMMUNICATIONS CABLE
TEMP	TEMPORARY
TR	THERMAL RESISTIVITY
TYP	TYPICAL
V	VERTICAL
WATER	WATERLINE



В

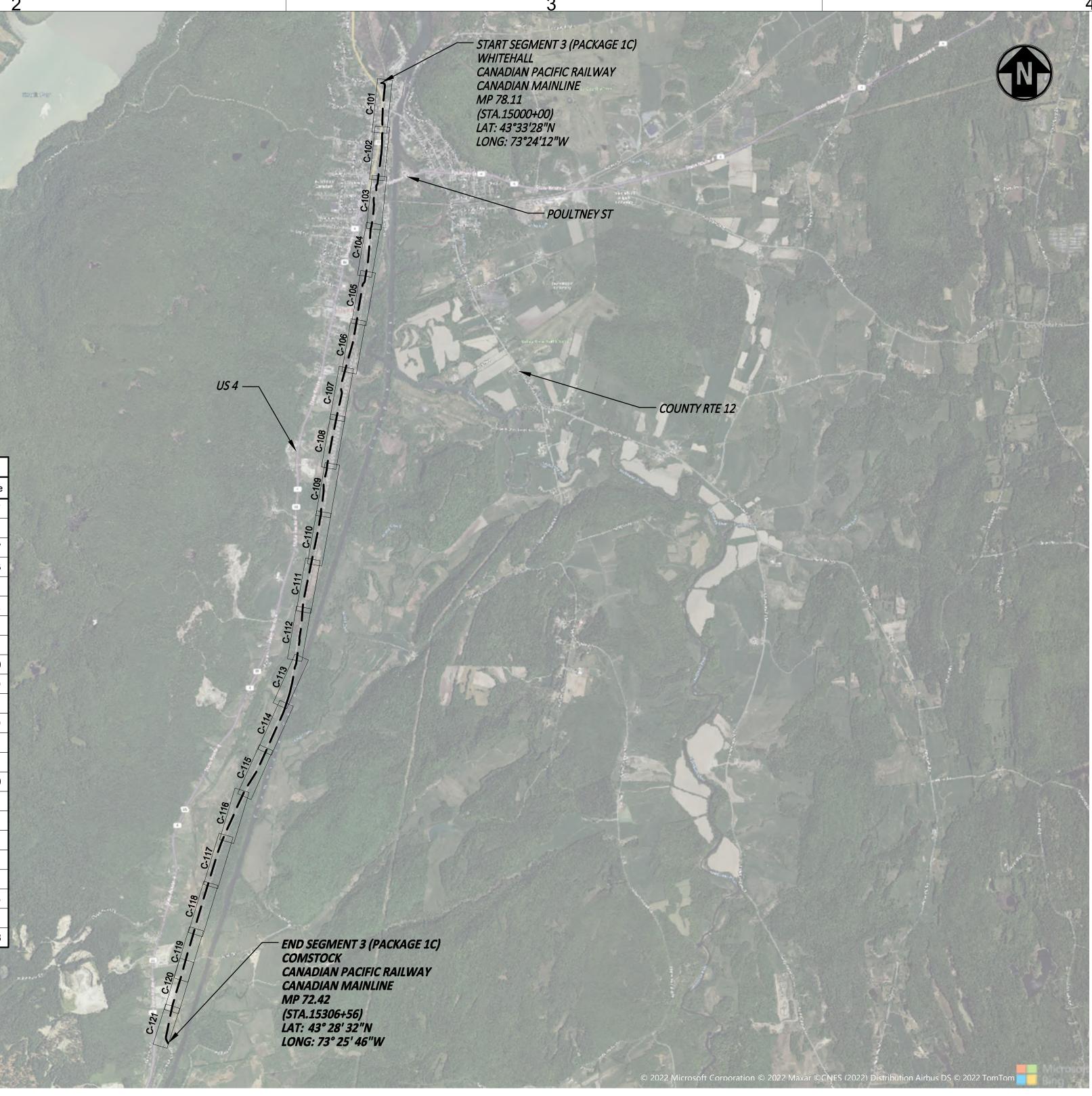
		ara Palate	C. Serting P.		
300 2 2		Struct	ure Table		
	Structure Name	Station	Northing	Easting	Finished Grade
	FIBER MANHOLE 030A	15017+31.24	1721535.20	782789.09	RIM = 121.97
12	SPLICE LOCATION 030A	15017+42.73	1721523.58	782805.07	
	LINK BOX 030A	15017+62.82	1721503.58	782794.09	RIM = 120.47
	FIBER MANHOLE 031	15036+07.31	1719682.88	782573.29	RIM = 128.06
	SPLICE LOCATION 031	15036+08.66	1719684.27	782560.84	
	FIBER MANHOLE 032	15066+44.15	1716696.97	782149.87	RIM = 131.72
	SPLICE LOCATION 032	15067+16.12	1716624.94	782144.15	
	SPLICE LOCATION 033	15095+30.69	1713879.29	781548.97	
	FIBER MANHOLE 033	15095+71.62	1713838.77	781539.79	RIM = 120.00
Magin .	FIBER MANHOLE 034	15126+42.32	1710829.49	780994.11	RIM = 121.00
	SPLICE LOCATION 034	15127+10.17	1710761.60	781001.34	
	LINK BOX 034	15127+10.17	1710761.66	780990.53	RIM = 119.20
	SPLICE LOCATION 035	15159+52.77	1707573.09	780449.96	
	FIBER MANHOLE 035	15160+22.38	1707506.31	780429.00	RIM = 115.76
Also.	FIBER MANHOLE 036	15190+76.04	1704493.58	779982.74	RIM = 123.00
San II	SPLICE LOCATION 036	15191+47.04	1704426.00	779960.36	
1 all	FIBER MANHOLE 037	15213+07.79	1702427.25	779146.44	RIM = 119.61
1 Star	SPLICE LOCATION 037	15213+78.15	1702366.85	779109.30	
14	FIBER MANHOLE 038	15245+46.77	1699515.08	777741.98	RIM = 117.41
RAR	SPLICE LOCATION 038	15246+21.77	1699441.16	777726.96	
	LINK BOX 038	15246+24.83	1699440.86	777717.56	RIM = 117.38
	SPLICE LOCATION 039	15277+46.91	1696447.28	776831.06	
and the second second	FIBER MANHOLE 039	15277+81.03	1696412.13	776829.71	RIM = 139.28







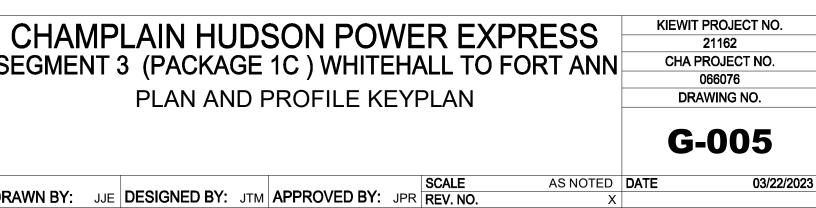




# PLAN AND PROFILE KEY MAP SCALE: 1" = 2000'

TION OF LAW FOR ANY PERSON, UNLESS THEY NG UNDER THE DIRECTION OF A LICENSED ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT VEYOR TO ALTER AN ITEM IN ANY WAY. IF AN THE STAMP OF A LICENSED PROFESSIONAL IS E ALTERING ENGINEER, ARCHITECT, LANDSCAPE LAND SURVEYOR SHALL STAMP THE DOCUMENT E THE NOTATION "ALTERED BY" FOLLOWED BY URE, THE DATE OF SUCH ALTERATION, AND A IFIC DESCRIPTION OF THE ALTERATION.
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	creational Areas		Tabl	<u>e 8.3 – Tre</u>		
Segment/ PackageRecreational AreaLocation	(Approximate - see Drawings for Details)	Method	Method Title			
	5007+00 (C-101) to 15016+00 (C-102)	Type				
Note: Table 7.2 identifies the recreational areas with	in this Package. Section 7.2 describe the procedures to n recreational areas.	Type A	Construction Use	Logs may access, cr logs unsui transporte		
Chapter 4 – Constru	uction Methods	Type B	Log Piles	Logs not r an approv		
Calle Last lister Devices of	12			Where suf		
Cable Installation Requirements	4.2			be sold to		
Horizontal Directional Drilling Installation and Performance Controls			G 1	the agreen		
Buildings and Structures within 100-ft of HDD	4.3.1	Type C	Sale	accessible		
Inadvertant Release Contingency Plan and Drilling Fluid Management	4.3.2 4.3.3, Appendix J					
Road and Railroad Crossing Methods	4.3.4			When log		
Trenching	4.4			The result		
Trenching in Agricultural Lands	4.4.1		Tree/Log	ROW or t		
Trenching in Roadways	4.4.2	Type D	Chipping	(Appendi:		
Trenching in Wetlands	4.4.3					
Length of Open Trench	4.4.4			nitrogen d		
Splicing and Jointing	4.4.5		Vegetation	Vegetation		
Dewatering Methods	4.4.6	Type E	Chipping	volume. S		
Bedding and Backfilling Methods	4.4.7		Vecetation	Vegetation		
Dredging	Note Applicable for this Segment	Type F	Vegetation	location (		
Converter Station and Substation Requirements	Note Applicable for this Segment		Hauling	approval		
Right of Ways and Easements	4.7			Stumps m		
Right of Way Clearing	4.8 (See also Chapter 8)			burial are		
Building and Structure Removal	4.9			constructi		
Access Roads	4.10			settling af		
Access Road Types	4.10.1	Tuna G	Vegetation	Inspector		
Driveway Access During Construction	4.10.2	Type G	Burial	obtained r		
Access Through Wetlands or Streams	4.10.3			appropria		
Access Through Agricultural Lands	4.10.4			amounts o		
Drain Lines and Under Drains Within Agricultural Lands	4.10.5			and monit		
Soil and Materials Management Plan	4.11 and Appendix L			maintenan		
Culvert Replacement	4.12		Disposal Sites I			
Rock Removal	4.13	*	nethods that may			
Inadvertant Damage to Existing Utilities	4.14		L will be subm			
Note: The Table above summarizes the construction methods and as	sociated subsections that summarize the measures and standards	SEGMENT	3 - TRP	τε ανιί		

Note: The Table above summarizes the construction methods and associated subsections that summarize the measures and standards that will be followed within this Segment.

# SEGMENT 3 - CONSTRUCTION METHODS

egment/ ackage	Sheet Number	Location (Approximate – see Drawings for Details)	Access Road Description	Parcel ID	Type of Access Road	Impacts to Environmentally Sensitive Areas	Impacts to Agricultural Land	Access Road Crosses Railroad
3/1C	C-101	15001+00 to 15006+50	Access Road Parallel to Trench	51.17-3-4, 60.9-2-8.1	Temporary; Type 2 and 3	No	No	No
3/1C	C-101 to C- 105	15009+00 to 15072 +00	Access Road Parallel to Trench	60.9-2-8,1, 60,05-4- 18, 60,09-2-8,6	Temporary; Type 2	No	No	Yes
3/1C	C-103 & C- 210	15036+50	Access Road off Poultney Street	60.09-2-8.6	Temporary; Type 2	No	No	No
3/1C	C-105 & C- 211	15070+00	Access Road off NYS Route 4	602-4.2	Temporary; Type 1, 3 and 4	No	No	No
3/1C	C-107 to C- 112	15094+00 to 15174+00	Access Road Parallel to Trench	681-8.1, 681-10, 602-11, 692-11	Temporary; Type 2 and 4	Yes-Wetland G-R-X- 1	No	Yes
3/1C	C-111 & C- 212	15165+00	Access Road off NYS Route 4	681-10, 681-16.1	Temporary: Type 3, 5	Yes-NYS mapped Stream Crossing and Access road within Wetland G-R-U	Yes	Yes
3/1C	C-113 to C- 115	15183+00 to 15216+50	Access Road Parallel to Trench	68,-1-10, 69,-1-1	Temporary; Type 3,4	Yes-Wetland G-R-W	No	No
3/1C	C-114 & C- 213	15196475	Access Road off Old State Road	771-9.1.681-10	Temporary; Type 3, 4, 5	Yes-NYS mapped Stream Crossing	Yes	Yes
3/1C	C-116 to C- 118	15233+50 to 15255+50	Access Road Parallel to Trench	771-4.1.681-10	Temporary: Type 4, 5	Yes-Wetland G-R-X	Yes	No
3/1C	C-117 & C- 214	15241+00	Access Road off NYS Route 4	771-4.1	Temporary: Type 4, 5	Yes -Wetland PIC-A and PIC-B	Yes	No
3/1C	C-119 to C- 120	15270+00 to 15297+00	Access Road Parallel to Trench	861-2.1, 861-6, 861-18.1, 861-7, 681-10	Temporary; Type 4, 5	Yes-Wetland G-R-Y	Yes	No
3/1C	C-120 & C- 215	15297+00	Access Road off NYS Route 4	861-14.2	Temporary; Type 4, 5	Yes	Yes	No
3/1C	C-121	15305+25 to 20001+75	Entrance/Road	691-1	Temporary; Type 3	No	No	No

Notes: Table 4.6 identifies each proposed access road in this package, their locations, their access road type from Table 4.5, and any sensitive areas that are crossed. For access roads that are perpendicular to the alignment, the disturbance zone in which sensitive areas was evaluated begins at the end of the Railroad or Road ROW.

# <u>SEGMENT 3 – ACCESS ROADS</u>









# ree and Vegetation Disposal Methods

# **Method Description**

ay be utilized as needed during construction for wetland cribbing, retaining walls, or other uses. Following use, any uitable for firewood, saw logs, or chipping will be rted off the ROW to an approved disposal site (Appendix L).

needed for construction will be removed from the ROW to oved disposal area (Appendix L).

sufficient merchantable volume exists on the site, logs may to a third party. Where appropriate and practical, and with ement of landowners, unsold logs will be hauled to ble locations for salvage by the general public in accordance substantive requirements of 6 NYCRR Part 192.5, firewood ons to protect forests from invasive species.

bgs cannot be reused or sold, they will be chipped on site. ulting wood chips will be piled in upland areas within the transported off ROW to an approved disposal site dix L). Wood chips will be spread three (3) to five (5) thick with fertilizer spread over the chips to minimize soil depletion due to cellulose decomposition. ion including tree limbs may be chipped to reduce debris

See Type D for the disposal of chips. ion and stumps may be hauled to a NYSDEC approved (Appendix L) or other suitable off-site location with the

al of the landowner and all applicable permitting agencies. may be buried on the ROW with landowner agreement. The reas will be sufficiently compacted and monitored after ction to assure that settling does not occur. Where significant after construction has been identified by the Construction tor et. al., finished grade will be reestablished using locally l run-of-bank material and/or topsoil and re-seeded as iate as specified in Sections 14.2. Areas where significant of stump burial occur will be noted on As-Built drawings nitored for settling during ROW condition surveys and ance activities.

ppendix L. Table 8.3 describes the tree and vegetation for this Package. The list of disposal locations included in PS and NYSDEC prior to construction.

SEGMENT 3 - TREE AND VEGETATION DISPOSAL METHODS

Restoration Methods							
	Section of EMCP						
1							

Non-agricultural, non-urban, and non- residential areas	14.2.1
Urban/Residential Areas	14.2.2
Railway Ballast	14.2.3
Recreational Areas	14.2.4
Landscaping	14.3
Streams and Waterbodies	14,4
Access Roads and Laydown Areas within Agricultural Lands	14.5.1
Drainage Features	14.5.2
General Agricultural Lands	14.5
Note: Section 14 describes the cleanup	standards and procedures that will be

Land Use Description

followed throughout this Package once construction is complete. The Table above summarizes the appropriate subsection with Section 14 that includes the restoration procedure for each type of land use.

# SEGMENT 3 - RESTORATION METHODS

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

Package	rattering	Sheet in aimder	Appendix C for Details)	Location Description	Anticipateu Inipacis to Agricultural Activities/Lanu
3/1C	681-16.1	C-110 to C-111	15142+75 to 15162+00	East of CP Railroad east of Route 4	Construction activity will occur within the western edge of the CP-Railroad ROW and is not anticipated to impact these areas.
3/1C	681-16.1	C-212	15165+00	Area east of Route 4 and west of tree line	Construction activity associated with the installation of a temporary acces road as described in Table 4.6 and temporary bridge construction may impact these agricultural lands. All impacts to agricultural lands will be full restored in accordance with Section 14.5.
3/1C	681-21	C-112	15165+50 to 15178+00	Area east of stream 830-469 and west of tracks	Alignment crosses to east side of tracks to avoid impact to agricultural land.
3/1C	771-9.1	C-112 to C-114	15179+00 to 15201+50	Area east of stream 830-469 and west of tracks	Alignment crosses to east side of tracks to avoid impact to agricultural lan- except for temporary access road described in the table row below.
3/1C	771-9.1; 771-10.1	C-213	15196+00	Parcels between Route 4 and CP Rail	Anticipated impacts including the installation of a temporary perpendicula access road as described in Table 4.6 may impact these agricultural lands. All impacts to agricultural lands will be fully restored in accordance with Section 14.5.
3/1C	771-4.1	C-114 to C-116	15201+50 to 15230+75	West of CP Railroad east of Route 4	Alignment crosses to east side of tracks to avoid impact to agricultural lan except for temporary access road described in the table row below.
3/1C	771-4.1	C-116 to C-118	15230+75 to 15258+00	West of CP Railtoad east of Route 4	Construction activity including the installation of the alignment and the installation of an access road as described in Table 4.6 will occur along the eastern edge of agricultural lands. All impacts to agricultural lands will be fully restored in accordance with Section 14.5.
3/1C	771-4.1	C-117 & C-214	15241+00	West of CP Railroad east of Route 4	Construction activity associated with the installation of an access road of NYS Route 4 as described in Table 4.6 may impact these agricultural lands All agricultural lands will be fully restored in accordance with Section 14.5
3/1C	861-5	C-118	15258+00 to 12562+00	Area between CP Rail ROW and Railway Reorganization Est Inc property	This parcel is avoided by HDD#7. No impacts to agricultural lands are anticipated.
3/1C	861-2.1	C-118 to C-119	15264+00 to 15273+50	West of CP Railroad east of Route 4	Construction activity including the installation of the alignment and clearing as described in Table 8.4 will occur along eastern edge of agricultural lands and is not anticipated to impact the area used for agricultural activities.
3/1C	861-6	C-119	15273+50 to 15281+00	West of CP Railroad east of Route 4	Construction activity including clearing along eastern edge of agricultura lands as described in Section 8.3 is not anticipated to impact the area used for agricultural activities.
3/1C	861-7	C-120	15285+50 to 15293+00	Adirondack Natural Stone	Agricultural lands registered with Washington County Ag District but appears to not be used for agricultural activities. Construction activity within agricultural lands will include the installation of an access road as described in Table 4.6 and clearing along the eastern edge of the property as described in Table 8.4. All impacts to agricultural lands will be fully restored in accordance with Section 14.5.
3/1C	861-14.2	C-120	15293+00 to 15300+00	West of CP Raihoad east of Route 4	Anticipated impacts to agricultural lands include clearing along eastem edge of the work areas and for HDD#8 Work Area as described in Table 8.4. All impacts to agricultural lands will be fully restored in accordance with Section 14.5.

Table 8.2 summarizes the tree and vegetation clearing methods for this Package. All vegetation and tree clearing and removal will follow the specifications in Section 8.1.

within agricultural lands.

Segment/

# <u>SEGMENT 3 –</u> TREE AND VEGETATION CLEARING METHODS

Method Type	Description	Dimensions	Construction Details
Construction Entrance	Construction entrance	16' standard or 20' perpendicular; 50' minimum length	<ul> <li>Placed on geofabric</li> <li>12" thick minimum</li> </ul>
Туре 1	Paved or existing gravel roads requiring minor or no maintenance (e.g., Parking lots, Local/state roads, Railroad or private gravel roads)	14' standard, 16' splice access, 20' perpendicular	• 0" to 6" of gravel
Type 2	Existing railroad and gravel access roads	14° standard, 16° splice access, 20° perpendicular	<ul> <li>Spot fill &amp; re-grading required</li> <li>Soil stripping, filter fabric, and gravel surfacing required in new area</li> <li>6<sup>**</sup> of gravel</li> </ul>
Type 3	Proposed new roads (roads shown in places without existing access)	14' standard, 16' splice access, 20' perpendicular	<ul> <li>Soil stripping on average to be 4"</li> <li>Cut slopes based on type of material encountered but no steeper than ½ h to 1</li> <li>Fill slopes based on type of material encountered but no steeper than 1 h to 1 v</li> <li>Placed on geo-fabric</li> <li>12" of gravel</li> </ul>
Type 4	Temporary construction access through wetlands, streams, or marshy terrain	14' standard, 16' splice access, 20' perpendicular	<ul> <li>Utilizing standard timber 8"x4'x16' cran mats</li> <li>-3-ply matting may be used as a substitute (except when crossing streams)</li> </ul>
Type 4A	Temporary construction access through wetlands, streams, or marshy terrain when matting is not practical (e.g., sinking mats). Used only in extreme cases; typically, will only be implemented after a Type 4 road has been attempted and determined to be unsuitable.	14' standard, 16' splice access, 20' perpendícular	•Filter fabric •2' of rip-rap •4" of gravel to top off
Type 5	Temporary construction access through agricultural fields	14' standard, 16' splice access, 20' perpendicular	<ul> <li>3-ply mats or timber matting; requires mowing to establish road</li> </ul>

describes the procedures to be followed during the construction of all access roads

# <u>SEGMENT 3 – ACCESS ROAD TYPES</u>

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SEPHIF. ROMANY	IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED							SEG
	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							
S LEICEL SIOR	AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A							
081993 V	SPECIFIC DESCRIPTION OF THE ALTERATION.	0	) 03/2	2/2023	ISSUED FOR CONSTRUCTION SUBMISSION	JTM	JPR	
OF ESSION.		No	o. D	ATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRAW

HE PROCEDURES TO FOLLOW DURING THE UNANTICIPATED	DISCOVERY OF ARCHEOLOGICA	AL RESOURCES OR
<u>SEGMENT 3 – CULTURA</u>	L RESOURCES NO	<u>TE</u>
HAMPLAIN HUDSON POWE GMENT 3 (PACKAGE 1C) WHITEHA EM&CP DATA TABLES (1)	ALL TO FORT ANN	KIEWIT PROJECT NO. 21162 CHA PROJECT NO. 066076 DRAWING NO. <b>G-011</b>
<b>(N BY:</b> JJE <b>DESIGNED BY:</b> JTM <b>APPROVED BY:</b> JPR		DATE 03/22/

OR

03/22/2023

NOTE 1. SECTION 11.0 AND APPENDIX O DESCRIBE THE CULTURAL RESOURCES IDENTIFIED WITHIN THIS PACKAGE AND THE BEST MANAGEMENT PRACTICES TO FOLLOW TO PROTECT THESE RESOURCES. SECTION 11.3 AND 11.4 DESCRIBE

# SEGMENT 3 - FEMA NOTE

NOTE: 1. GIS FEMA DATA NOT AVAILABLE FOR WASHINGTON COUNTY, FEMA FIRM MAPS ARE PROVIDED IN APPENDIX D OF THE STORMWATER POLLUTION PREVENTION PLAN WHICH IS INCLUDED IN APPENDIX G OF THE EM&CP.

SEGMENT 3 - EM&CP NOISE SENSITIVE AREAS NOTE

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

SEGMENT 3 - EM&CP EROSION AND SEDIMENT CONTROL NOTES NOTE

PACKAGE.

EROSION AND SEDIMENT CONTROLS THAT WILL BE FOLLOWED FOR THIS PACKAGE. 2. THE EROSION AND SEDIMENT CONTROL PLANS CAN BE FOUND ON SHEET C-400 TO SHEET C-411 FOR THIS

NOTES

1. THE STORMWATER POLLUTION PREVENTION PLAN INCLUDED IN APPENDIX G OF THE EM&CP DESCRIBES THE

# <u>SEGMENT 3 – AGRICULTURAL LANDS</u>

Table 7.1 – Agricultural Lands

Location Description

Location (Approximate - see

		2			3			4	
Table 9.2 – Summary of Wetland Impacts	Table 4.4B – Facil	ity ROW Ownership and Easements		Tab HDD#/	ble 4.2 - Structures within 100 Feet of HDD or Trenching Sheet Location (Approximate		Trench Private Residence Commercial Building	60.5-4-10.1 C-102 15023+75 Ea	t of Broadway Street/Rte. 22 - West side of CP Rail
Wetland ID         Jurisdiction         Drawing Sheet Number and Number and Number and         Wetland Community Type         Permanent ROW         Temporary Construction         State Wetland Buffer Temporary Construction         Segment/ Package	Parcel ID Description	Location (Approximate – See Drawings for Details)	mments	Trench	Parcel Number see Drawings for Detail	s) Notes	Trench Skenesborough Emergency Facility	60.5-5-5 C-102 15023+50 W	est of Skenes borough Drive - East side of CP Rail
Approximate     (i)     Impacts     Impacts       Station     (square feet)     (square feet)		Private assemant: 1	Lower Bellanty St Private Tr	ench Private Residence ench Private Residence	\$1.13-4-2         C-101         15000-00           \$1.13-4-3         C-101         15000-00	North Side of Lower Bellamy Street North Side of Lower Bellamy Street	Tronch Private Residence	60. 5-5-10.4 C-102 15024+50 Ea	t of Broadway Street/Rte. 22 - West side of CP Rail
CP Rail – Package 1 C S3/P1C	51.17-3-3 Temporary Easement		ndowner - Tre Lower Bellamy St Private	ench Private Residence ench Private Residence	51.17-3-2         C-101         15000÷00           51.17-3-3         C-101         15000=50	South Side of Lower Bellamy Street South Side of Lower Bellamy Street	Trench Commercial Building – Retro Hoarders Gaming Store		t of Broadway Street/Rtc. 22 - Opposite Gilmore St. /est side of CP Rail
Wetland PIC-B2         USACE         15068+50 to 15070+75 (C-105; C-         PSS         0         4,196         0         S3/PIC	51.17-3-4 Temporary Easement	15000+48 to 15001+08 (C-101) Landowner - Transiti	tion from Lower Bellanty St. $\begin{bmatrix} Tree \\ Tree \end{bmatrix}$	ench Private Residence ench Private Residence	51.17-3-4         C-101         15000-75           51.13-3-9         C-101         15001+00	South Side of Lower Bellamy Street East of Lower Bellamy Street - East side of CP Rail	Trench Private Residence	60.5-4-10.3 C-102 15026+25 Ea	t of Broadway Street/Rie. 22 - West side of CP Rail
211: C-403) 15095-75 to S3/P1C	State Route 22 Temporary Easement		o CP Rail ong SR22 @ Retaining Wall	ench Private Rosidence Commercial Business New	51.17-4-41         C-101         15006-75           51.17-4-40         C-101         15007~50	North of Division Street - East side of CP Rail	Trench Multi-family Private Residence Commercial Building – Putort's		t of Broadway Street/Rte. 22 - West side of CP Rail
15097+75; 15138-25 to 15139+25; PSS 2200 4.174 0 S3/P1C	60.05-4-18 Permanent Easement	to meet CC	2140 requirements Treet	enen Woman II eneh Commercial Warehouse/Storage		East of Broadway Street/Rte. 22 - East side of CP Rail East of Broadway Street/Rte. 22/Saunders St East	Trench Repair Shop Trench Commercial Building – Putort's	00.0-4-12 0-102 10028/50 13	it of Broadway Street/Rte, 22 - West side of CP Rail It of Broadway Street/Rte, 22 - Opposite Queen St
Wetland G-R-X- USA CE 15146-25:	60.09-2-8.6 Permanent Easement		west of Poultney Street	ench Commercial Building – 1st Presbyterian Church -Whitehall	51 17-2-21 C-101 I 500800	side of CP Rail West of Broadway Street/Rie, 22 - West side of CP	Trench Broadway Market	C-102	ist side of CP Rail
1 15156-00 to 15166+75 PEN( 3404 33641 0 S3/PIC S3/PIC	60.09-2-8.6Temporary Easement60.09-2-8.6Temporary Easement (Access Road)		west of Poultney Street Treet	cnch Commercial Building - Longti's Boat Service		Ratt West of Broadway Street/Rte, 22 - West side of CP Rail	Trench Private Residence/Carage	&103 (5031450) Ea	t of Broadway Street/Rtc. 22 - F. Boardman St
(C-107, C-110- C-         Prior         Prior         S3/P1C           112; C-404 to C-         PFF         1944         3681         S3/P1C	60.09-2-8.6 Temporary Easement (Access Road)			ench Commercial Warehouse/Storage	51.17-4-30 C-101 15009±50	Fast of Broadway Street/Rte. 22 - East side of CP Rail	Trench Commercial Building Power		est side of CP Rail est of Riverside Drive - E. Boardman St. East side CD Rail
406)         PFO         9198         31019         0         S3/P1C           15164÷25 to         PEM         0         0         0         S3/P1C	60.09-2-8.6     Permanent Easement       60.09-2-8.6     Temporary Easement		West of RR ROW		51.17-4-25 C-301 150104-50	Fast of Broadway Street/Rte. 22 - East side of CP Rail West of Broadway Street/Rte. 22 - West side of CP	Trench Commercial Building Power Station	60. 9-2-8.6 C-103 (5036+00 of	r (din st of Riverside Drive - E. Boardman St. East side (P Rail
Wetland G-R-U         USACE         15171+50 (C-111 to         1124         0         0         0         0         53/P1C           C-112 C-406)         PFO         2.359         34.822         0         \$3/P1C	602-4.2 Temporary Easement (Access Road)		West of RR ROW	ench Private Residence	51.17-6-4         C-101         15010~50           51.17-4-24         C-101         15011+00	Rail Fast of Broadway Street/Rte, 22 - East side of CP Rail	HDD #3/Trench Railroad Building	681-10 C-107 (5094+00 H1 si	D#3 - Between main railroad tracks and spur (west e)
Wetland PIC-A2         USACE         112/113; C-212; C-         PEM         0         3,377         0         S3/P1C	602-3     Temporary Easement (Access Road)       602-4.1     Temporary Easement (Access Road)	· · · · · · · · ·	West of KK ROW	ench Private Residence	31.17-4-24         C-101         15011-00           \$1.17-6-5         C-101         15011-00	West of Broadway Street/Rte, 22 - West side of CP	Trench Railroad Building	681-10 C-107 15095-000 81	D#3 - Between main railroad tracks and spur (west c)
406) 15186=50 to	60.2-2-4.3 Temporary Easement (Access Road)	15071+86 to 15071+96 (C-105) Private; W	West of RR ROW	ench Commercial Building	51.17-4-23 and 51.17-4-22 C-101 15011~50	Rail East of Broadway Street/Rtc. 22 - East side of CP Rail	Trench Private Residence Trench Railroad Building		rth Side of Lower Bellamy Street D#3 - Between main railroad tracks and spur (west
Wetland G-R-V         USACE         15188+25 (C-113; C- 407)         PFO         1179         2.621         0         S3/P1C	691-1     Temporary Easement       681-16.1     Temporary Easement (Access Road)		East of RR ROW Tree	ench Private Residence	51.17-6-7/ (*-101 15011+50	West of Broadway Street/Rie. 22 - West side of CP Rail	Trench Private Residence		c) rth Side of Lower Bellamy Street
Wetland O-R-         15196-00 to         PFO         0         7.218           Wetland O-R-         USACE         15197-50 (C-114: C)         PSS         0         0	691-1 Permanent Easement	15169+48 to 15179+84 (C-112) Private; E		ench Commercial Building	51.17-4-21 C-101 15012+00	East of Broadway Street/Rte. 22 - East side of CP Rail	Trench Private Residence Trench Private Residence	51.17-3-2 C-101 15000±00 Sc	rth Side of Lower Bellamy Street ath Side of Lower Bellamy Street
X/IC-C         213; C-407)         PEM         0         1.225         S3/PIC           16102100 (C 114) C         5         53/PIC         53/PIC         53/PIC	691-1     Permanent Easement       691-1     Temporary Easement		East of RR ROW	ench Private Residence	51.17-6-8 C-101 15012×00	West of Broadway Street/Rte. 22 - West side of CP Rail	Trench Private Residence Trench Private Residence		ith Side of Lower Bellamy Street ith Side of Lower Bellamy Street
Wetland IC-B         USACE         I5192+00 (C-114; C- 213; C-407)         PEM         0         0         0           15198+25 to         15198+25 to         0 <td< td=""><td>771-9.1Temporary Easement (Access Road)</td><td>15187+68 to 15188+44 (C-113) Private; E</td><td>East of RR ROW</td><td>ench Private Residence</td><td>51.17-6-8 C-101 15012×50</td><td>West of Broadway Street/Rte. 22 - West side of CP Rail West of Broadway Street/Rte. 22 - West side of CP</td><td>Trench Private Residence Trench Private Residence</td><td>51.13-3-9 C-101 15001±00 152</td><td>t of Lower Bellamy Street - East side of CP Rail rth of Division Street - East side of CP Rail</td></td<>	771-9.1Temporary Easement (Access Road)	15187+68 to 15188+44 (C-113) Private; E	East of RR ROW	ench Private Residence	51.17-6-8 C-101 15012×50	West of Broadway Street/Rte. 22 - West side of CP Rail West of Broadway Street/Rte. 22 - West side of CP	Trench Private Residence Trench Private Residence	51.13-3-9 C-101 15001±00 152	t of Lower Bellamy Street - East side of CP Rail rth of Division Street - East side of CP Rail
Wetland G-R-W         USACE         15200+00 60 (C- 407114 to C-408; C- 407114 to C-408; C-         PSS         2.231         1.274         0         S3/P1C	691-1     Temporary Easement       691-1     Permanent Easement		East of RR ROW		51.17-6-12 C-101 15013-00	West of Brosdway Street/Rie. 22 - West side of CP Rail West of Brosdway Street/Rie. 22 - West side of CP	Trench Commercial Business - New Woman II	51.17-4-40 C-101 15007+50 Ea	t of Broadway Street/Rte. 22 - East side of CP Rail
407 to C-408)         PFO         629         4,060         0           15231+25 to         PFO         19,292         21,129         0         S3/P1C	771-4.1     Permanent Easement		thwest of RR ROW		51.17-6-12.1         C-101         15014+00           51.17-4-20         C-101         15014+00	Rsit East of Broadway Street/Rte. 22 - East side of CP Rail	Trench Commercial Warehouse/Storag	gg 51.17-4-39 C-101 [15008+25  sia	d of Broadway Street/Rtc. 22/Saunders St Fast e of CP Rail
Wetland G-R-X         USACE         15208+75         S3/PIC           Wetland G-R-X         USACE         to 15280+25 (C-116         PEM         5,685         57,309         0         S3/PIC	771-4.1     Temporary Easement       771-4.1     Temporary Easement (Access Road)		thwest of RR ROW	ench Commercial Building - Vacant		West of Broadway Street/Rie. 22 - North of Chapin	Trench         Commercial Building - 1st           Pres byterian Church - Whiteha         Trench           Trench         Commercial Building - Longth	all 51.17-2-21 [C-101 ] 15008+00 [Ri	st of Broadway Street/Rtc. 22 - West side of CP i st of Broadway Street/Rtc. 22 - West side of CP
Io C-119; C-408 to C         PSS         22,044         17,006         0         S3/P1C	861-5 Permanent Easement	15257+88 to 15263+84 (C-118) Private; Nort	thwest of RR ROW	Communiat Duilling Comple	51.17-6-15 C-101 15015+00	Alley - West side of CP Rail West of Broadway Street/Rie. 22 North of Chapin Alley - West side of CP Rail	Trench Boat Service Trench Commercial Warehouse/Storag	R	1 it of Broadway Street/Ric, 22 - East side of CP Rail
Wetland G-R- X/PIC-A         USACE         15241+00 (C-117; C- 214; C-408 to C-409)         PSS         0         10,623         S3/PIC	861-2.1         Permanent Easement           861-2.1         Temporary Easement	× / /	thwest of RR ROW	ench Commercial Building – US Post	51.17-6-16 C-102 15016-25	West of Broadway Street/Rte, 22 - South of Chapin Alley - West side of CP Rail	Trench Commercial Building		A of Broadway Street/Rte. 22 - East side of CP Raj
NPIC-A         214, C-406 to C-409)         0         15,366         S3/P1C           IS241+00 (C-         IS241+00 (C-         S3/P1C         S3/P1C	861-6 Temporary Easement	15273+56 to 15281+05 (C-119) Private; Nort		ench Commercial Building Police Station	60, 5-5-1 C-102 15017-00	East of Broadway Street/Rtc. 22 - East side of CP Rail	Trench Private Residence	51.17-6-4 C-101 I5010+50 W	st of Broadway Street/Ric. 22 - West side of CP
Wetland PIC-B USACE 11X/11X; C-214; C- PEM 0 708 0 S3/P1C S3/P1C S3/P1C	Ryder Road         Temporary Easement & Permanent Easen           86.6-1-18.1         Temporary Easement		hwest of Ry der Road - running adjacent to West	ench Private Residence / Commercial Bldg.	51.17-6-17 C-102 15017-25	West of Broadway Street/Rtc. 22 - West side of CP Raif	Trench Commercial Building	51.17-4-24 C-101 15011+00 Ee	t of Broadway Street/Rte. 22 - East side of CP Rail
IS2/1+00 (C-           Wetland PIC-D         USACE         11X/11X; C-214; C-         PEM         0         118         S3/P1C	861-18.1 Temporary Easement (Lavdown Yard)	side of CP Rail; c	outside deviation zone		60.5-4-1 C-102 15018-50	East of Broadway Street/Rte. 22 - West side of CP Rail East of Broadway Street/Rte. 22 - Opposite School St.	Trench Private Residence	51.17-6-5 C-101 15011400 W	st of Broadway Street/Ric. 22 - West side of CP I
409) 15241+00 (C- S3/P1C	861-7Temporary Easement (Access Road)		West of RR ROW		60.5-4-2 C-102 15019-50 60.5-4-3 C-102 15020-00	- West side of CP Rail     East of Broadway Street/Rtc. 22 – Opposite School St.	Trench Commercial Building		t of Broadway Street/Rte, 22 - East side of CP Rail
Wetland PIC-E         USACE         11X/11X; C-214; C-         PEM         0         118         S3/P1C           409)         53/P1C         53/P1C         53/P1C         53/P1C         53/P1C	691-1     Permanent Easement       691-1     Temporary Easement		East of RR ROW		60.5-4-3 C-102 15020-50	West side of CP Rail     East of Broadway Street/Ric, 22 - West side of CP Rail	Trench Private Residence	51.17-0-7 C-101 15011+50 R4	1
Wetland G-R- USACE 15297+50 (C-119 to DEM 16 435 18 601 0 Note: Table 4	69-1-1 Temporary Easement .4B summarizes parcels upon which the alignment and (				60.5-4-5 C-102 15021+00	East of Broadway Street/Rte, 22 - West side of CP Rail	Trench Commercial Building		at of Broadway Street/Rte, 22 - East side of CP Rail est of Broadway Street/Rte, 22 - West side of CP
Y/GP2-YA C-121: C-409 to C- 411)	SECMENT 3 _ EACILITY I	ROW OWNERHSHIP AND EASEMENT		ench Private Residence	60.5-4-7 C-102 15021-50	East of Broadway Street/Rie, 22 - West side of CP Rail	Trench Private Residence Trench Private Residence	I Real Real Real Real Real Real Real Real	I st of Broadway Street/Rie. 22 - West side of CP
Wetland CIII         USACE         15304+00 (C-411)         PEM         0         0         0	<u>SLOWLINT 5 - FACILITER</u>	OW OWNLINISHIE AND LASLIVILINI			60.5-5-4.3 C-102 15021-75	West of Skenesborough Drive - East side of CP Rail	Trench Private Residence		a set of Broadway Street/Ric. 22 - West side of CP
Wetland CIJJ         USACE         15306+00 (C-411)         PEM         0         0         0		mmary of Federal and State-Listed Species Best Management Practices	Tree Tree Tree Tree Tree Tree Tree Tree		60. 5-4-8         C-102         15022-25           60.5-4-9         C-102         15022-75	East of Broadway Street/Rte. 22 - West side of CP Rail East of Broadway Street/Rte. 22 - West side of CP Rail	Trench Private Residence	51.17-6-12.1 C-101 15014±00 W	a est of Broadway Street/Ric. 22 - West side of CP
PEM         25,524 sF         120,463 sF           0.59 ac         2.77 ac	Status ESA Type Location	a) Conduct tree clearing and tree trimming activities between October	(ar)		60. 5-4-10.1 C-102 1502325	East of Broadway Street/Rte, 22 - West side of CP Rail	Trench Whitehall Fire Department		t of Broadway Street/Rte. 22 - East side of CP Rail
Total by Wetland Community Type     PSS     26,475 sf/ 0.61 ac     47,896sf/ 1.1 ac		31 and March 31. Tree clearing and tree trimming activities are not allowed between April 1 and October 30. <sup>6</sup>			<u> </u>		Trench Commercial Building Vacant	I 51.17-6-14.1 C-301 I5015/00 A	est of Broadway Street/Rte. 22 North of Chapin ey - West side of CP Rail
PFO 32.657 s£ 100,869 s£	Federal/State         Assumed to be roosting habit           ESA 4         located throughout the Projet	al b) During the presenting survey the contractors would identify		Species Name	Table 9.5 – Aquatic Invasive Species         (Scientific		Trench         Commercial Building         Carol's           Collectibles         Collectibles         Constrained on the second secon	01.17-6-15 C-101 15015+00 A	est of Broadway Street/Rte. 22 North of Chapin ey - West side of CP Rail est of Broadway Street/Rte. 22 - South of Chapin
Pro         0.75 ac         2.31 ac           Total         84656 stř 1.95         269228 stř 6.18	Endangered Corridor (P1C: 15000+00 to 15306+61)	of shagbark hickory (Carya ovata), with the potential to serve as		оросної і інні   Папіє	e) Wetland ID & Wetland Flag II		Trench Office Commercial Building Police	A	ey - West side of CP Rail
ac ac Note: (1) PEM – Palustrine emergent, PSS – Palustrine scrub-shrub. PFO – Palustrine forested. Table 9.2		maternity or roost trees and these would be marked. Potential roost trees identified within the construction limits would be avoided when		puple loos	Wetland G-R-X (1PPPP- 1111): 1511 Wetland G-R-U (13 - 29): 15142-		Station	60. 5-5-1 C-102 15017+00 Ea structures located within 100 feet of trenching and HDD activities for t	it of Broadway Street/Rte. 22 - East side of CP Rail
describes the location and impact for each wetland within this Package. All construction related activity will follow the procedures described in Section 9.1.		a) Conduct tree clearing and tree trimming activities between October	er	(Lythrum sal	ulicaria) Wetland G-R-X (5 – 30): 15227+	00-15280+75	-	procedures for vibration monitoring where applicable.	
<u>SEGMENT 3 – SUMMARY OF WETLAND IMPACTS</u>		31 and March 31. Tree clearing and tree trimming activities are not $\frac{1}{2}$			Wetland G-R-Y (1 – 11): 15282+ Wetland G-R-S (3-13): 15084+0		<u>SEGMENT</u>	<u> 7 – STRUCTURES WITHIN 1</u>	<u>DO FEET</u>
	Federal/State Assumed to be roosting habit	b) During the preconstruction survey, the contractors would identify		(Phragmites a	Wetland G-R-X (1999) – 1111): 151		OF	HDD OR TRENCHING OPERA	<u>TION</u>
	Threatened ESA 9 Corridor (P1C: 15000+00 to 15306+61)	large live or dead trees with peeling bark, including large specimens of shagbark hickory (Carya ovata), with the potential to serve as	None		w chang (555 (5 ~ 5) - 15505450 ~	CORSE FRIGHTOC			
				Note: Table 9.4 i	identifies the locations of invasive aquatic plants the	nat were identified			
		naternity or roost trees and these would be marked. Potential roost trees identified within the construction limits would be avoided wher		within this Packa	ige. Section 9.3 describes the procedures to be for				ials and Equipment
	Assumed to be habitat in varie	naternity or roost trees and these would be marked. Potential roost trees identified within the construction limits would be avoided wher possible during construction activities.	ле		age. Section 9.3 describes the procedures to be for a sive species.			Table 5.2 – Construction Mate Staging Locati	* *
	ESC –         Assumed to be habitat in varie open areas located througho the Project Carrier (21C)	<ul> <li>maternity or roost trees and these would be marked. Potential roost trees identified within the construction limits would be avoided wher possible during construction activities.</li> <li><sup>DUS</sup> a) None proposed due to current status as a candidate species and status as a candidate species.</li> </ul>	nd	within this Package the spread of investigation of the spread of the spr	age. Section 9.3 describes the procedures to be for vasive species. SEGMENT 3 —	ollowed to reduce		Table 5.2 – Construction Mate	* *
	ESC - open areas located through a	<ul> <li>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.</li> <li>a) None proposed due to current status as a candidate species and no critical habitat identified by USFWS. Additionally, not listed as State protected species.</li> </ul>	nd	within this Package the spread of investigation of the spread of the spr	age. Section 9.3 describes the procedures to be for a sive species.	ollowed to reduce		Table 5.2 – Construction Mate Staging Locati Location Segment/ (Approximate- Sho	et Staging Area
	Federal         ESC – Candidate         open areas located througho the Project Comidor (PIC:	<ul> <li>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.</li> <li>a) None proposed due to current status as a candidate species and no critical habitat identified by USFWS. Additionally, not listed as</li> </ul>	nd	within this Package the spread of investigation of the spread of the spr	age. Section 9.3 describes the procedures to be for vasive species. SEGMENT 3 —	ollowed to reduce		Table 5.2 – Construction Mate Staging Locati Location	et Staging Area
	Federal         ESC – Candidate         open areas located througho the Project Comidor (PIC:	<ul> <li>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.</li> <li>a) None proposed due to current status as a candidate species and no critical habitat identified by USFWS. Additionally, not listed as State protected species.</li> <li>a) No suitable habitat within the project corridor.</li> <li>b) No Impacts Anticipated.</li> <li>c) NHP documented wintering at the Fort Edward Grasslands. NHP</li> </ul>	rre nd s a None H' None	within this Package the spread of investigation of the spread of the spr	age. Section 9.3 describes the procedures to be for vasive species. SEGMENT 3 —	Dillowed to reduce		Table 5.2 – Construction Mate Staging LocatiLocationSegment/(Approximate-She PackageSee Drawings for Details)3/1C15074±50C-1	et Staging Area ber Description 25 HDD-3 Entry Area
	Federal Candidate     ESC – Candidate     open areas located througho the Project Corridor (PIC: 15000+00 to 15306+61)       State-     ESA 12     N/A	<ul> <li>maternity or roost trees and these would be marked. Potential roost trees identified within the construction limits would be avoided when possible during construction activities.</li> <li>a) None proposed due to current status as a candidate species and no critical habitat identified by USFWS. Additionally, not listed as State protected species.</li> <li>a) No suitable habitat within the project corridor.</li> <li>b) No Impacts Anticipated.</li> </ul>	rre and s a None H <sup>2</sup> None nt	within this Package the spread of inva AQUA	age. Section 9.3 describes the procedures to be for vasive species. <u>SEGMENT 3 —</u> <u>ATIC INVASIVE SPECIES/LC</u> <u>Table 4.4A – CC 140 Waivers I</u> <u>Loc</u>	Dillowed to reduce	Comments	Table 5.2 – Construction Mate Staging LocatiLocationSegment/ (Approximate- She Package see Drawings for Num Details)3/1C15074±50C-13/1C15074±50C-1	et Staging Area ber Description 25 HDD-3 Entry Area
	Federal Candidate     ESC – Candidate Insect     open areas located througho the Project Corridor (PIC: 15000+00 to 15306+61)       State- Endangered     ESA 12     N/A       Unlisted/ Conservation     N/A- NA	<ul> <li>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.</li> <li>a) None proposed due to current status as a candidate species and no critical habitat identified by USFWS. Additionally, not listed as State protected species.</li> <li>a) No suitable habitat within the project corridor.</li> <li>b) No Impacts Anticipated.</li> <li>c) NHP documented wintering at the Fort Edward Grasslands. NHI mapped area extends to within 1/3 mile of the project alignmen northeast of Dunham Basin in the Town of Kingsbury.</li> <li>a) NHP documented in Champlain Canal @ Lock 11.</li> </ul>	rre and s a None H <sup>2</sup> None nt	within this Package within this Package within this Package within the spread of inva AQUA Package Parcel 1D	nge. Section 9.3 describes the procedures to be for vasive species. <u>SEGMENT 3 —</u> <u>ATIC INVASIVE SPECIES/LC</u> <u>Table 4.4A – CC 140 Waivers I</u> <u>Description</u>	Dillowed to reduce DCATION Requested for Segment 3 ation (Approximate – See Drawings for Details)	Comments	Table 5.2 – Construction Mate         Staging Locati         Location         Segment/       (Approximate-       She         Package       sce       Drawings for       Nun         Details)       3/1C       15074±50       C-1         3/1C       15074±50       C-1         3/1C       15138±60       C-1         3/1C       15144±75       C-1	et Staging Area ber Description )5 HDD-3 Entry Area )7 HDD-3 Esit Area
Table 4.1 - HDD Locations	Federal CandidateESC - Candidate Insectopen areas located througho the Project Corridor (PIC: 15000+00 to 15306+61)State- EndangeredESA 12N/AUnlisted/ Conservation Concem RareN/A- InsectN/A	<ul> <li>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.</li> <li>a) None proposed due to current status as a candidate species and no critical habitat identified by USFWS. Additionally, not listed as State protected species.</li> <li>a) No suitable habitat within the project corridor.</li> <li>b) No Impacts Anticipated.</li> <li>c) NHP documented wintering at the Fort Edward Grasslands. NHI mapped area extends to within 1/3 mile of the project alignmen northeast of Dunham Basin in the Town of Kingsbury.</li> <li>a) NHP documented in Champlain Canal @ Lock 11.</li> <li>b) 100% avoidance of aquatic larval stage.</li> </ul>	rrend ad s a None H <sup>P</sup> None nt None	within this Package the spread of inva AQUA	nge. Section 9.3 describes the procedures to be for vasive species. <u>SEGMENT 3 —</u> <u>ATIC INVASIVE SPECIES/LC</u> <u>Table 4.4A – CC 140 Waivers I</u> <u>Description</u>	DCATION CATION Requested for Segment 3 ation (Approximate – See Drawings for Details) 5000+09 to 15000 +48 (C-101) Private cas	Comments ement; Lower Bellamy St Private Landowner -	Table 5.2 – Construction Mate         Staging Locati         Location         Segment/       (Approximate-       She         Package       see Drawings for       Num         Details       Staging Locati         3/1C       15074+50       C-1         3/1C       15138+60       C-1         3/1C       15144+75       C-1         3/1C       15163+05       C-1         3/1C       15163+05       C-1         3/1C       15170+50       C-1	et Staging Area ber Description 5 HDD-3 Entry Area 17 HDD-3 Entry Area 10 HDD-4 Entry Area 10 HDD-4 Entry Area 11 HDD-4A Entry Area 12 HDD-4A Entry Area
Segment/ HDD Location (Approximate-	Federal Candidate       ESC – Candidate Insect       open areas located througho the Project Comidor (PIC: 15000+00 to 15306+61)         State- Endangered       ESA 12       N/A         Unlisted/ Conservation Concern Rare       N/A- Insect       N/A- Insect         Note, Table 9.3 identifies the federal and state listed sp Appendix T describe the habitat for these species and the	<ul> <li>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.</li> <li>a) None proposed due to current status as a candidate species and no critical habitat identified by USFWS. Additionally, not listed as State protected species.</li> <li>a) No suitable habitat within the project corridor.</li> <li>b) No Impacts Anticipated.</li> <li>c) NHP documented wintering at the Fort Edward Grasslands. NHI mapped area extends to within 1/3 mile of the project alignmen northeast of Dunham Basin in the Town of Kingsbury.</li> <li>a) NHP documented in Champlain Canal @ Lock 11.</li> <li>b) 100% avoidance of aquatic larval stage.</li> </ul>	rrendndnoneS.	within this Package within this Package within this Package within the spread of inva AQUA Package Parcel ID	rige. Section 9.3 describes the procedures to be for vasive species. <u>SEGMENT 3 –</u> <u>ATIC INVASIVE SPECIES/LC</u> <u>Table 4.4A – CC 140 Waivers I</u> <u>Description</u> <u>Loc</u> Permanent Easement 15	Dillowed to reduce DCATION Requested for Segment 3 ation (Approximate – See Drawings for Details) 5000+09 to 15000 +48 (C-101) Private eas Private eas	Comments ement; Lower Bellamy St Private Landowner - rement; Lower Bellamy St Private - Transition from Lower Bellamy St.	Table 5.2 - Construction Mate Staging Locati         Location         Segment/       (Approximate-She Package see Drawings for Num Details)         3/1C       15074±50       C-1         3/1C       15074±50       C-1         3/1C       15074±50       C-1         3/1C       15138±60       C-4         3/1C       15138±60       C-4         3/1C       15144±75       C-1         3/1C       15163±05       C-4         3/1C       15170±50       C-4         3/1C       15175±15       C-4         3/1C       15175±15       C-4         3/1C       15182±40       C-4	et Staging Area ber Description 5 HDD-3 Entry Area 17 HDD-3 Entry Area 10 HDD-4 Entry Area 10 HDD-4 Entry Area 11 HDD-4A Entry Area 12 HDD-4A Entry Area 13 HDD-5 Entry Area
Segment/ PackageHDD DesignationHDD Length (feet)HDD Reason for HDDSheet NumberLocation (Approximate- see Drawings for Details	Federal Candidate       ESC – Candidate Insect       open areas located througho the Project Corridor (PIC: 15000+00 to 15306+61)         State- Endangered       ESA 12       N/A         Unlisted/ Conservation Concern Rare       N/A- Insect       N/A         Note. Table 9.3 identifies the federal and state listed sp Appendix T describe the habitat for these species and the event of an unanticipated emergency that requires tre	<ul> <li>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.</li> <li>a) None proposed due to current status as a candidate species and no critical habitat identified by USFWS. Additionally, not listed as State protected species.</li> <li>a) No suitable habitat within the project corridor.</li> <li>b) No Impacts Anticipated.</li> <li>c) NHP documented wintering at the Fort Edward Grasslands. NHI mapped area extends to within 1/3 mile of the project alignmen northeast of Dunham Basin in the Town of Kingsbury.</li> <li>a) NHP documented in Champlain Canal @ Lock 11.</li> <li>b) 100% avoidance of aquatic larval stage.</li> </ul>	rrend	egment/ Package Parcel ID S3/PIC 51.17-3-4	rige. Section 9.3 describes the procedures to be for vasive species. <u>SEGMENT 3 –</u> <u>TIC INVASIVE SPECIES/LC</u> <u>Table 4.4A – CC 140 Waivers 1</u> <u>Description</u> Permanent Easement 15 Permanent Easement 1	Display="block-color: block-color: bloc	Comments ement; Lower Bellamy St Private Landowner - sement; Lower Bellamy St Private - Transition from Lower Bellamy St. to CP Rail	Table 5.2 - Construction Mate Staging Locati         Location       Segment/       (Approximate-       She Package see Drawings for Num Details)         3/1C       15074±50       C-1         3/1C       15093±20       C-4         3/1C       15138±60       C-1         3/1C       15144±75       C-1         3/1C       15163±05       C-1         3/1C       15163±05       C-1         3/1C       15170±50       C-1         3/1C       15175±15       C-1         3/1C       15182±40       C-1         3/1C       15182±40       C-1         3/1C       15182±40       C-1         3/1C       15218±15       C-1         3/1C       1523±50       C-1	et Staging Area ber Description 5 HDD-3 Entry Area 15 HDD-3 Entry Area 17 HDD-3 Entry Area 10 HDD-4 Entry Area 10 HDD-4 Entry Area 11 HDD-4A Entry Area 12 HDD-5 Entry Area 13 HDD-5 Entry Area 15 HDD-6 Entry Area 16 HDD-6 Entry Area
Segment/ PastrageHDD HDD DesignationHDD LengthReason for HDDSheet NumberLocation (Approximate- see Drawings for Details)	Federal Candidate       ESC - Candidate Insect       open areas located througho the Project Comidor (PIC: 15000+00 to 15306+61)         State- Endangered       ESA 12       N/A         Unlisted/ Conservation Concern Rare       N/A- Insect       N/A- Insect         Note, Table 9.3 identifies the federal and state listed sp Appendix T describe the habitat for these species and the event of an unanticipated emergency that requires tre	<ul> <li>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.</li> <li>a) None proposed due to current status as a candidate species and no critical habitat identified by USFWS. Additionally, not listed as State protected species.</li> <li>a) No suitable habitat within the project corridor.</li> <li>b) No Impacts Anticipated.</li> <li>c) NHP documented wintering at the Fort Edward Grasslands. NHI mapped area extends to within 1/3 mile of the project alignmen northeast of Dunham Basin in the Town of Kingsbury.</li> <li>a) NHP documented in Champlain Canal @ Lock 11.</li> <li>b) 100% avoidance of aquatic larval stage.</li> </ul>	rrend	egment/ Package S3/P1C 51.17-3-3	rige. Section 9.3 describes the procedures to be for vasive species. <u>SEGMENT 3 –</u> <u>TIC INVASIVE SPECIES/LC</u> <u>Table 4.4A – CC 140 Waivers 1</u> <u>Description</u> Permanent Easement 15 Permanent Easement 1	Dillowed to reduce         DCATION         Requested for Segment 3         ation (Approximate - See         Drawings for Details)         50000+09 to 15000 +48 (C-101)         Private cas         5000+48 to 15001+08 (C-101)         +66 to 15016+31 (C-101 to C-102)         Public case         to	Comments ement; Lower Bellamy St Private Landowner - cement; Lower Bellamy St Private - Transition from Lower Bellamy St. to CP Rail ment; Along SR22 @ Retaining Wall meet CC140 requirements	Table 5.2 - Construction Mate Staging Locati         Location       Segment/       (Approximate-       She Package see Drawings for Num Details)         3/IC       15074±50       C-1         3/IC       15074±50       C-1         3/IC       15074±50       C-1         3/IC       15138±60       C-1         3/IC       15138±60       C-1         3/IC       15163±05       C-1         3/IC       15163±05       C-1         3/IC       15170±50       C-1         3/IC       15175±15       C-1         3/IC       15182±40       C-1         3/IC       15218±15       C-1         3/IC       1523±50       C-1         3/IC       1523±50       C-1         3/IC       15256±05       C-1	et Staging Area Description 5 HDD-3 Entry Area 0 HDD-3 Entry Area 10 HDD-4 Entry Area 10 HDD-4 Entry Area 11 HDD-4A Entry Area 12 HDD-5 Entry Area 13 HDD-5 Entry Area 14 HDD-6 Entry Area
Segment/ PackageHDD DesignationHDD Length (feet)Reason for HDDSheet NumberLocation (Approximate- see Drawings for Details)1868	Federal Candidate       ESC - Candidate Insect       open areas located througho the Project Comidor (PIC: 15000+00 to 15306+61)         State- Endangered       ESA 12       N/A         Unlisted/ Conservation Concern Rare       N/A- Insect       N/A- Insect         Note, Table 9.3 identifies the federal and state listed sp Appendix T describe the habitat for these species and the event of an unanticipated emergency that requires tre	<ul> <li>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.</li> <li>a) None proposed due to current status as a candidate species and no critical habitat identified by USFWS. Additionally, not listed as State protected species.</li> <li>a) No suitable habitat within the project corridor.</li> <li>b) No Impacts Anticipated.</li> <li>c) NHP documented wintering at the Fort Edward Grasslands. NHE mapped area extends to within 1/3 mile of the project alignmen northeast of Dunham Basin in the Town of Kingsbury.</li> <li>a) NHP documented in Champlain Canal @ Lock 11.</li> <li>b) 100% avoidance of aquatic larval stage.</li> </ul>	rrendNoneS Il' NoneS Ilon 9.3 and tion 9.3 and tes. (6) In the tescribe in	egment/ Package Parcel ID S3/PIC 51.17-3-4	ige. Section 9.3 describes the procedures to be for vasive species. <u>SEGMENT 3 –</u> <u>TIC INVASIVE SPECIES/LC</u> <u>Table 4.4A – CC 140 Waivers I</u> <u>Description</u> <u>Permanent Easement</u> <u>I</u> <u>Permanent Easement</u> <u>1</u> <u>Permanent Easement</u> <u>15002</u>	DCATION         Requested for Segment 3         ation (Approximate – See Drawings for Details)         5000+09 to 15000 +48 (C-101)         Private cas         5000+48 to 15001+08 (C-101)         Private cas         5000+48 to 15001+08 (C-101)         Private cas         5000+48 to 15016+31 (C-101 to C-102)         Yerivate cas         5273+56 to 15281+05 (C-119)	Comments ement; Lower Bellamy St Private Landowner - sement; Lower Bellamy St Private - Transition from Lower Bellamy St. to CP Rail ment; Along SR22 @ Retaining Wall meet CC140 requirements ement; – running adjacent to West CP Rail; outside deviation zone	Table 5.2 – Construction Mate Staging Locati         Location       Segment/       (Approximate-       She Package see Drawings for Num Details)         3/1C       15074+50       C-1         3/1C       15074+50       C-1         3/1C       15074+50       C-1         3/1C       15074+50       C-1         3/1C       15138+60       C-4         3/1C       15138+60       C-4         3/1C       15144+75       C-1         3/1C       15170+50       C-1         3/1C       15170+50       C-1         3/1C       15175+15       C-1         3/1C       15182+40       C-1         3/1C       15231+50       C-1         3/1C       15231+50       C-1         3/1C       15231+50       C-1         3/1C       15269+00       C-1	et Staging Area Description 5 HDD-3 Entry Area 15 HDD-3 Entry Area 17 HDD-3 Entry Area 10 HDD-4 Entry Area 10 HDD-4 Entry Area 11 HDD-4A Entry Area 12 HDD-4A Entry Area 13 HDD-5 Entry Area 14 HDD-6 Entry Area 15 HDD-6 Entry Area 16 HDD-6 Entry Area 18 HDD-7 Entry Area
Segment/ PackageHDD DesignationHDD Length (fect)Reason for HDDSheet NumberLocation (Approximate- see Drawings for Details3/1CHDD-31868, 1869WetlandsC-105 to C-10715074+50 to 15093+203/1CHDD-4628, 650CulvertC-11015138+60 to 15144+753/1CHDD-4A735, 760Railroad TracksC-111 to C-11215163+05 to 15170+503/1CHDD-5712, 723Culvert & WetlandsC-112 to C-11315175+15 to 15182+40	Federal Candidate       ESC - Candidate Insect       open areas located througho the Project Comidor (PIC: 15000+00 to 15306+61)         State- Endangered       ESA 12       N/A         Unlisted/ Conservation Concern Rare       N/A- Insect       N/A- Insect         Note, Table 9.3 identifies the federal and state listed sp Appendix T describe the habitat for these species and the event of an unanticipated emergency that requires tre	<ul> <li>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.</li> <li>a) None proposed due to current status as a candidate species and no critical habitat identified by USFWS. Additionally, not listed as State protected species.</li> <li>a) No suitable habitat within the project corridor.</li> <li>b) No Impacts Anticipated.</li> <li>c) NHP documented wintering at the Fort Edward Grasslands. NHI mapped area extends to within 1/3 mile of the project alignmen northeast of Dunham Basin in the Town of Kingsbury.</li> <li>a) NHP documented in Champlain Canal @ Lock 11.</li> <li>b) 100% avoidance of aquatic larval stage.</li> </ul>	rre nd s a None H <sup>P</sup> None nt None tion 9.3 and ies. (6) In the describe in	egment/ PackageParcel ID\$3/PIC51.17-3-3\$3/PIC\$1.17-3-4\$3/PIC\$1.17-3-4	ige. Section 9.3 describes the procedures to be for vasive species. <u>SEGMENT 3 —</u> <u>TIC INVASIVE SPECIES/LC</u> <u>Table 4.4A – CC 140 Waivers 1</u> <u>Description</u> <u>Loc</u> Permanent Easement 1 <u>Permanent Easement</u> 1 <u>Permanent Easement</u> 1 <u>Permanent Easement</u> 1 <u>Permanent Easement</u> 1	DCATION         Requested for Segment 3         ation (Approximate - See         Drawings for Details)         5000+09 to 15000 +48 (C-101)         Private cas         5000+48 to 15001+08 (C-101)         Private cas         5000+48 to 15001+08 (C-101)         Private cas         5273+56 to 15281+05 (C-119)         5281+33 to 15283+04 (C-119)	Comments ement: Lower Bellamy St Private Landowner - cement: Lower Bellamy St Private - Transition from Lower Bellamy St. to CP Rail nent: Along SR22 @ Retaining Wall meet CC140 requirements ement; - running adjacent to West	Table 5.2 – Construction Mate Staging Locati         Location         Segment/       (Approximate-       She Package see Drawings for Nun Details)         3/1C       15074±50       C-1         3/1C       15074±50       C-1         3/1C       15074±50       C-1         3/1C       15138±60       C-4         3/1C       15138±60       C-1         3/1C       15138±60       C-1         3/1C       15170±50       C-1         3/1C       15170±50       C-1         3/1C       15182±40       C-1         3/1C       15182±40       C-1         3/1C       15231±50       C-1         3/1C       15236±05       C-1         3/1C       15236±00       C-1         3/1C       15269±00       C-1         3/1C       15269±00       C-1         3/1C       15269±00       C-1         3/1C       15269±00       C-1         3/1C       15296±20       C-1         3/1C       15296±20       C-1         3/1C       15296±20       C-1         3/1C       15296±20       C-1         3/1C <t< td=""><td>et Staging Area Description 5 HDD-3 Entry Area 7 HDD-3 Entry Area 10 HDD-4 Entry Area 10 HDD-4 Entry Area 10 HDD-4 Entry Area 11 HDD-4A Entry Area 12 HDD-5 Entry Area 13 HDD-5 Entry Area 14 HDD-6 Entry Area 15 HDD-6 Entry Area 16 HDD-6 Entry Area 18 HDD-7 Entry Area 18 HDD-7 Entry Area 18 HDD-7 Entry Area 19 HDD-8 Entry Area 10 HDD-8 Entry Area 10 HDD-8 Entry Area 11 HDD-8 Entry Area 12 HDD-8 Entry Area 13 HDD-7 Entry Area 14 HDD-7 Entry Area</td></t<>	et Staging Area Description 5 HDD-3 Entry Area 7 HDD-3 Entry Area 10 HDD-4 Entry Area 10 HDD-4 Entry Area 10 HDD-4 Entry Area 11 HDD-4A Entry Area 12 HDD-5 Entry Area 13 HDD-5 Entry Area 14 HDD-6 Entry Area 15 HDD-6 Entry Area 16 HDD-6 Entry Area 18 HDD-7 Entry Area 18 HDD-7 Entry Area 18 HDD-7 Entry Area 19 HDD-8 Entry Area 10 HDD-8 Entry Area 10 HDD-8 Entry Area 11 HDD-8 Entry Area 12 HDD-8 Entry Area 13 HDD-7 Entry Area 14 HDD-7 Entry Area
Segment/ Package         HDD Designation         HDD Length (feet)         Reason for HDD         Sheet Number         Location (Approximate- see Drawings for Details see Drawings for Details           3/1C         HDD-3         1868, 1869         Wetlands         C-105 to C-107         15074+50 to 15093+20           3/1C         HDD-4         628, 650         Culvert         C-110         15138+60 to 15144+75           3/1C         HDD-4A         735, 760         Railroad Tracks         C-111 to C-112         15163+05 to 15170+50           3/1C         HDD-5         712, 723         Culvert & Wetlands         C-112 to C-113         15175+15 to 15182+40           3/1C         HDD-6         1339         Railroad Tracks & Culvert         C-115 to C-116         15218+15 to 15231+50           3/1C         HDD-7         1305         Wetlands         C-118         15256+05 to 15269+00	Federal Candidate       ESC - Candidate Insect       open areas located througho the Project Comidor (PIC: 15000+00 to 15306+61)         State- Endangered       ESA 12       N/A         Unlisted/ Conservation Concern Rare       N/A- Insect       N/A- Insect         Note, Table 9.3 identifies the federal and state listed sp Appendix T describe the habitat for these species and the event of an unanticipated emergency that requires tre	<ul> <li>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.</li> <li>a) None proposed due to current status as a candidate species and no critical habitat identified by USFWS. Additionally, not listed as State protected species.</li> <li>a) No suitable habitat within the project corridor.</li> <li>b) No Impacts Anticipated.</li> <li>c) NHP documented wintering at the Fort Edward Grasslands. NHI mapped area extends to within 1/3 mile of the project alignmen northeast of Dunham Basin in the Town of Kingsbury.</li> <li>a) NHP documented in Champlain Canal @ Lock 11.</li> <li>b) 100% avoidance of aquatic larval stage.</li> </ul>	rrendNoneS Il <sup>p</sup> NoneNoneS tion 9.3 and tion 9.3 and ties. (6) In the tescribe in CIES	egment/ PackageParcel IDS3/PIC51.17-3-3S3/PIC51.17-3-4S3/PICState Route 22S3/PIC86.6-1-6S3/PIC86.6-1-18.1ote: Table 4.4A summarizes the	Tige. Section 9.3 describes the procedures to be for a sive species.         SEGMENT 3 —         TIC INVASIVE SPECIES/LC         Table 4.4A – CC 140 Waivers I         Loc         Description         Permanent Easement       15002         Permanent Easement       1	Dillowed to reduceDCATIONRequested for Segment 3ation (Approximate - See Drawings for Details)5000+09 to 15000 +48 (C-101)5000+48 to 15000 +48 (C-101)5000+48 to 15001+08 (C-101)466 to 15016+31 (C-101 to C-102)5273+56 to 15281+05 (C-119)5281+33 to 15283+04 (C-119)5281+33 to 15283+04 (C-119)ackage 1C that CHPE is seeking waivers p	Comments         ement; Lower Bellamy St Private Landowner -         cement; Lower Bellamy St Private         - Transition from Lower Bellamy St. to CP Rail         nent; Along SR22 @ Retaining Wall meet CC140 requirements         ement; - running adjacent to West CP Rail; outside deviation zone         cment; - running adjacent to West CP Rail; outside deviation zone	Table 5.2 - Construction Mate Staging Locati         Location       Segment/ (Approximate- She Package see Drawings for Num Details)         3/1C       15074+50       C-4         3/1C       15074+50       C-4         3/1C       15093+20       C-4         3/1C       15138+60       C-4         3/1C       15138+60       C-4         3/1C       15144+75       C-4         3/1C       15144+75       C-4         3/1C       15175+15       C-4         3/1C       15175+15       C-4         3/1C       15182+40       C-4         3/1C       1528+15       C-4         3/1C       1528+15       C-4         3/1C       1528+15       C-4         3/1C       1528+00       C-4         3/1C       1528+00       C-4         3/1C       15280+20       C-4         3/1C       15280+20       C-4         3/1C       15280+20       C-4         3/1C       15304+95       C-4         3/1C       15304+95       C-4         3/1C       15304+95       C-4         3/1C       15304+95       C-4         3/	et Staging Area Description 5 HDD-3 Entry Area 7 HDD-3 Entry Area 10 HDD-4 Entry Area 10 HDD-4 Entry Area 10 HDD-4 Entry Area 11 HDD-4A Entry Area 12 HDD-5 Entry Area 13 HDD-5 Entry Area 13 HDD-6 Entry Area 14 HDD-6 Entry Area 15 HDD-6 Entry Area 16 HDD-6 Entry Area 18 HDD-7 Entry Area 18 HDD-7 Entry Area 18 HDD-7 Entry Area 19 HDD-8 Entry Area 10 HDD-8 Entry Area 10 HDD-8 Entry Area 11 HDD-8 Entry Area 12 HDD-8 Entry Area 13 HDD-7 Entry Area 14 HDD-8 Entry Area 15 HDD-8 Entry Area
Segment/ PackageHDD DesignationHDD Length (feet)Reason for HDDSheet NumberLocation (Approximate- see D rawings for Details3/1CHDD-31868, 1869WetlandsC-105 to C-10715074+50 to 15093+203/1CHDD-4628, 650CulvertC-11015138+60 to 15144+753/1CHDD-4A735, 760Railroad TracksC-111 to C-11215163+05 to 15170+503/1CHDD-5712, 723Culvert & WetlandsC-112 to C-11315175+15 to 15182+403/1CHDD-61339Railroad Tracks & CulvertC-11815256+05 to 15231+503/1CHDD-71305WetlandsC-11815256+05 to 15269+003/1CHDD-8655, 838Railroad Tracks & CulvertC-120 to C-12115296+20 to 15304+95Note: Table 4.1 describes the locations of HDD activity within this Package. HDD will be performed in accordance with the Horizonta	Federal Candidate       ESC – Candidate Insect       open areas located througho the Project Corridor (PIC: 15000+00 to 15306+61)         State- Endangered       ESA 12       N/A         Unlisted/ Conservation Concern Rare       N/A- Insect       N/A         Note. Table 9.3 identifies the federal and state listed sp Appendix T describe the habitat for these species and the event of an unanticipated emergency that requires trees         SEGMENT 3 – FEDERALLY	<ul> <li>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.</li> <li>a) None proposed due to current status as a candidate species and no critical habitat identified by USFWS. Additionally, not listed as State protected species.</li> <li>a) No suitable habitat within the project corridor.</li> <li>b) No Impacts Anticipated.</li> <li>c) NHP documented wintering at the Fort Edward Grasslands. NHI mapped area extends to within 1/3 mile of the project alignmen northeast of Dunham Basin in the Town of Kingsbury.</li> <li>a) NHP documented in Champlain Canal @ Lock 11.</li> <li>b) 100% avoidance of aquatic larval stage.</li> </ul>	rrendNoneS Il <sup>p</sup> NoneNoneS tion 9.3 and tion 9.3 and ties. (6) In the tescribe in CIES	egment/ Package Parcel ID S3/PIC 51.17-3-4 S3/PIC 51.17-3-4 S3/PIC State Route 22 S3/PIC 86.4-4 S3/PIC 86.4-4 S3/PIC 86.4-4 summarizes the immarizes the procedures that with	Tige. Section 9.3 describes the procedures to be for asive species.         SEGMENT 3 – TIC INVASIVE SPECIES/LC         Table 4.4A – CC 140 Waivers I         Description       Loc         Permanent Easement       15002         Permanent Easement       1	DCATION         Requested for Segment 3         ation (Approximate – See         Drawings for Details)         5000+09 to 15000 +48 (C-101)         Private cas         5000+09 to 15000 +48 (C-101)         5000+48 to 15001+08 (C-101)         466 to 15016+31 (C-101 to C-102)         5273+56 to 15281+05 (C-119)         5281+33 to 15283+04 (C-119)         side of         ackage 1C that CHPE is seeking waivers prisition.	Comments         ement; Lower Bellamy St Private Landowner -         tement; Lower Bellamy St Private         - Transition from Lower Bellamy St Private         - Transition from Lower Bellamy St Drivate         - Transition	Table 5.2 - Construction Mate Staging Locati         Location         Segment/       (Approximate-       She Package see Drawings for Num Details)         3/1C       15074±50       C-1         3/1C       15074±50       C-1         3/1C       15074±50       C-1         3/1C       15138±60       C-1         3/1C       15138±60       C-1         3/1C       15144±75       C-1         3/1C       15163±05       C-1         3/1C       15170±50       C-1         3/1C       15175±15       C-1         3/1C       15182±40       C-1         3/1C       1528±15       C-1         3/1C       1528±15       C-1         3/1C       1528±00       C-1         3/1C       15204±95       C-1         3/1C       15204±95	Staging Area Description       B     HDD-3 Entry Area Description       D5     HDD-3 Entry Area Description       D5     HDD-3 Entry Area HDD-4 Entry Area HDD-4 Entry Area HDD-4 Entry Area HDD-4 Entry Area HDD-5 Entry Area HDD-5 Entry Area HDD-5 Entry Area HDD-6 Entry Area HDD-6 Entry Area HDD-7 Entry Area HDD-7 Entry Area HDD-7 Entry Area HDD-8 Entry A
Segment/ Package         HDD Designation         HDD Length (feet)         Reason for HDD         Sheet Number         Location (Approximate- see Drawings for Details ce Drawings for Details           3/1C         HDD-3         1868, 1869         Wetlands         C-105 to C-107         15074+50 to 15093+20           3/1C         HDD-4         628, 650         Culvert         C-110         15138+60 to 15144+75           3/1C         HDD-4A         735, 760         Railroad Tracks         C-111 to C-112         15163+05 to 15170+50           3/1C         HDD-5         712, 723         Culvert & Wetlands         C-112 to C-113         15175+15 to 15182+40           3/1C         HDD-6         1339,         Railroad Tracks & Culvert         C-115 to C-116         15218+15 to 15231+50           3/1C         HDD-7         1305         Wetlands         C-118         15256+05 to 15269+00           3/1C         HDD-8         655, 838         Railroad Tracks & Culvert         C-120 to C-121         15296+20 to 15304+95	Federal Candidate       ESC – Candidate Insect       open areas located througho the Project Corridor (PIC: 15000+00 to 15306+61)         State- Endangered       ESA 12       N/A         Unlisted/ Conservation Concern Rare       N/A- Insect       N/A         Note. Table 9.3 identifies the federal and state listed sp Appendix T describe the habitat for these species and the event of an unanticipated emergency that requires trees         SEGMENT 3 – FEDERALLY	<ul> <li>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.</li> <li>a) None proposed due to current status as a candidate species and no critical habitat identified by USFWS. Additionally, not listed as State protected species.</li> <li>a) No suitable habitat within the project corridor.</li> <li>b) No Impacts Anticipated.</li> <li>c) NHP documented wintering at the Fort Edward Grasslands. NHI mapped area extends to within 1/3 mile of the project alignmen northeast of Dunham Basin in the Town of Kingsbury.</li> <li>a) NHP documented in Champlain Canal @ Lock 11.</li> <li>b) 100% avoidance of aquatic larval stage.</li> </ul>	rrendNoneS Il <sup>p</sup> NoneNoneS tion 9.3 and tion 9.3 and ties. (6) In the tescribe in CIES	egment/ Package Parcel ID S3/PIC 51.17-3-4 S3/PIC 51.17-3-4 S3/PIC State Route 22 S3/PIC 86.4-4 S3/PIC 86.4-4 S3/PIC 86.4-4 summarizes the immarizes the procedures that with	Tige. Section 9.3 describes the procedures to be for a sive species.         SEGMENT 3 —         TIC INVASIVE SPECIES/LC         Table 4.4A – CC 140 Waivers I         Loc         Description         Permanent Easement       15002         Permanent Easement       1	DCATION         Requested for Segment 3         ation (Approximate – See         Drawings for Details)         5000+09 to 15000 +48 (C-101)         Private cas         5000+09 to 15000 +48 (C-101)         5000+48 to 15001+08 (C-101)         466 to 15016+31 (C-101 to C-102)         5273+56 to 15281+05 (C-119)         5281+33 to 15283+04 (C-119)         side of         ackage 1C that CHPE is seeking waivers prisition.	Comments         ement; Lower Bellamy St Private Landowner -         tement; Lower Bellamy St Private         - Transition from Lower Bellamy St Private         - Transition from Lower Bellamy St Drivate         - Transition	Table 5.2 - Construction Mate Staging Locati           Location         Segment/ (Approximate- She Package see Drawings for Num Details) $3/1C$ $15074+50$ C-4 $3/1C$ $15138+60$ C-4 $3/1C$ $15138+60$ C-4 $3/1C$ $15138+60$ C-4 $3/1C$ $15144+75$ C-4 $3/1C$ $15170+50$ C-4 $3/1C$ $15175+15$ C-4 $3/1C$ $15182+40$ C-4 $3/1C$ $15128+15$ C-4 $3/1C$ $1523+50$ C-4 $3/1C$ $15226+20$ C-4	et Staging Area Description 5 HDD-3 Entry Area 7 HDD-3 Entry Area 10 HDD-4 Entry Area 10 HDD-4 Entry Area 10 HDD-4 Entry Area 11 HDD-4A Entry Area 12 HDD-5 Entry Area 13 HDD-5 Entry Area 13 HDD-6 Entry Area 14 HDD-6 Entry Area 15 HDD-6 Entry Area 16 HDD-6 Entry Area 18 HDD-7 Entry Area 18 HDD-7 Entry Area 19 HDD-8 Entry Area 10 HDD-8 Entry Area 10 HDD-8 Entry Area 11 HDD-8 Entry Area 12 HDD-8 Entry Area 13 HDD-7 Entry Area 14 HDD-8 Entry Area 15 Section 5.4 followed for the storage and equipment.
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Segment/ PackageHDD DesignationHDD Length (feet)Reason for HDDSheet NumberLocation (Approximate- see Drawings for Details3/1CHDD-31868, 1869WetlandsC-105 to C-10715074+50 to 15093+203/1CHDD-4628, 650CulvertC-11015138+60 to 15144+753/1CHDD-4A735, 760Railroad TracksC-111 to C-11215163+05 to 15170+503/1CHDD-5712, 723Culvert & WetlandsC-115 to C-11615218+15 to 15182+403/1CHDD-61339Railroad Tracks & CulvertC-115 to C-11615218+15 to 15231+503/1CHDD-71305WetlandsC-11815256+05 to 15269+003/1CHDD-8655, 838Railroad Tracks & CulvertC-120 to C-12115296+20 to 15304+95Note: Table 4.1 describes the locations of HDD activity within this Package. HDD will be performed in accordance with the Horizontz Direction Drilling Site Investigation and Planning Report and Inadvertent Release and Contingency Plan in Appendix J, the specification described in Section 4.3.1, and the BMP document.	Federal Candidate       ESC – Candidate Insect       open areas located througho the Project Corridor (PIC: 15000+00 to 15306+61)         State- Endangered       ESA 12       N/A         Unlisted/ Conservation Concern Rare       N/A- Insect       NA         Note. Table 9.3 identifies the federal and state listed sp Appendix T describe the habitat for these species and the event of an unanticipated emergency that requires tre         SEGMENT 3 – FEDERALLY	<ul> <li>naternity or roost trees and these would be marked. Potential roost trees identified within the construction limits would be avoided wher possible during construction activities.</li> <li>a) None proposed due to current status as a candidate species and no critical habitat identified by USPWS. Additionally, not listed as State protected species.</li> <li>a) No suitable habitat within the project corridor.</li> <li>b) No Impacts Anticipated.</li> <li>c) NHP documented wintering at the Fort Edward Grasslands. NHI mapped area extends to within 1/3 mile of the project alignmen northcast of Dunham Basin in the Town of Kingsbury.</li> <li>a) NHP documented in Champlain Canal @ Lock 11.</li> <li>b) 100% avoidance of aquatic larval stage.</li> </ul>	rrendNoneS. II <sup>P</sup> NoneNoneS. Ition 9.3 and tion 9.3 and ties. (6) In the lescribe in CIES Nu su	egment/ Package Parcel ID S3/PIC 51.17-3-4 S3/PIC 51.17-3-4 S3/PIC State Route 22 S3/PIC 86.4-4 S3/PIC 86.4-4 S3/PIC 86.4-4 summarizes the immarizes the procedures that with	Tige. Section 9.3 describes the procedures to be for vasive species.         SEGMENT 3 – ATIC INVASIVE SPECIES/LC         Table 4.4A – CC 140 Waivers I Description         Loc         Permanent Easement       1	DCATION         Requested for Segment 3         ation (Approximate – See         Drawings for Details)         Private eas         S000+09 to 15000 +48 (C-101)         Private eas         S000+48 to 15001+08 (C-101)         Private eas         S000+48 to 15001+08 (C-101)         Private eas         S273+56 to 15281+05 (C-119)         S281+33 to 15283+04 (C-119)         Side of         S281+33 to 15283+04 (C-119)         Side of         QUESTED FOR SEGMEN	Comments         ement; Lower Bellamy St Private Landowner -         coment; Lower Bellamy St Private         - Transition from Lower Bellamy St.         - Transition from St.         - Transition from St.         - Transition from Lower Bellamy St.         - Transition from Lower Bellamy St.         - Transition from Lower Bellamy St.         - Transition from St.         - Transition from Lower Bellamy St.         - Transition from Lower Bellamy St.         - Trans	Table 5.2 - Construction Mate Staging LocatiLocationSegnent/(Approximate- Marbackage Beckage see Drawings for Details)3/1C15074/50C-13/1C15074/50C-13/1C15138/60C-13/1C15138/60C-13/1C15138/60C-13/1C15144/75C-13/1C15170/50C-13/1C15170/50C-13/1C15175/15C-13/1C1518/140C-13/1C151218/15C-13/1C15231/50C-13/1C15226/05C	Ims         et       Staging Area Description         10       HDD-3 Entry Area Description         15       HDD-3 Entry Area HDD-4 Entry Area HDD-4 Entry Area HDD-4 Entry Area HDD-5 Entry Area HDD-5 Entry Area HDD-5 Entry Area HDD-5 Entry Area HDD-6 Entry Area HDD-7 Entry Area HDD-7 Entry Area HDD-7 Entry Area HDD-8 Entry Area R HDD-7 Entry Area HDD-8 Entry Area R HDD-7 Entry Area R HDD-8 Entry Area R HDD
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Segment/ Package       HDD Designation       HDD Length (feet)       Reason for HDD       Sheet Number       Location (Approximate- see Drawings for Details (ee Drawings for Details 3/1C         3/1C       HDD-3       1868, 1869       Wetkinds       C-105 to C-107       15074+50 to 15093+20         3/1C       HDD-4       628, 650       Cukert       C-110       15138+60 to 15144+75         3/1C       HDD-4A       735, 760       Railroad Tracks       C-111 to C-112       15163+05 to 15170+50         3/1C       HDD-6       1339,       Railroad Tracks & Culvert       C-113 to 15175+15 to 15182+40         3/1C       HDD-7       1305       Wetlands       C-112 to C-116       15218+15 to 15231+50         3/1C       HDD-7       1305       Wetlands       C-112 to C-121       1526+05 to 15269+00         3/1C       HDD-8       655. 838       Railroad Tracks & Culvert       C-120 to C-121       15296+20 to 15304+95         Note: Table 4.1 describes the locations of HDD activity within this Package. HDD will be performed in accordance with the Horizonth Direction Drilling Site Investigation and Planning Report and Inadvertent Release and Contingency Plan in Appendix J. the specification described in Section 4.3.1. and the BMP document.         SEGMENT 3 — HDD LOCATIONS	Federal Candidate       Candidate       open areas located througho the Project Conidor (PIC: 15000+00 to 15306+61)         State-Endangered       ESA 12       N/A         Unlisted/ Conservation Concern Rare       N/A- Insect       NA         Note. Table 9.3 identifies the federal and state listed sp       Appendix T describe the habitat for these species and the event of an unanticipated emergency that requires tree         SEGMENT 3 - FEDERALLY	maternity or roost trees and these would be marked. Potential roost trees identified within the construction limits would be avoided wher possible during construction activities. a) None proposed due to current status as a candidate species and no critical habitat identified by USFWS. Additionally, not listed as State protected species. a) No suitable habitat within the project corridor. b) No Impacts Anticipated. c) NHP documented wintering at the Fort Edward Grasslands. NHI mapped area extends to within 1/3 mile of the project alignmen northeast of DunhamBasin in the Town of Kingsbury. a) NHP documented in Champlain Canal @ Lock 11. b) 100% avoidance of aquatic larval stage. we cleas that may be encountered on or in the vicinity of this Package. Section e procedures that will be followed to minimize the impact on these specie e clearing or tree trimming during April 1 to October 30, the procedures de Section 8.2 will be followed. Y LISTED AND STATE LISTED SPEC	F LAW FOR ANY PERSON, UNLESS THEY DER THE DIRECTION OF A LICENSED EER, ARCHITECT, LANDSCAPE ARCHITECT TO ALTER AN ITEM IN ANY WAY. IF AN SUM	egment/ Package Parcel ID S3/PIC 51.17-3-4 S3/PIC 51.17-3-4 S3/PIC State Route 22 S3/PIC 86.4-4 S3/PIC 86.4-4 S3/PIC 86.4-4 summarizes the immarizes the procedures that with	Tige. Section 9.3 describes the procedures to be for vasive species.         SEGMENT 3 – ATIC INVASIVE SPECIES/LC         Table 4.4A – CC 140 Waivers I Description         Loc         Permanent Easement       1	DCATION         Requested for Segment 3         ation (Approximate – See         Drawings for Details)         Private eas         S000+09 to 15000 +48 (C-101)         Private eas         S000+48 to 15001+08 (C-101)         Private eas         S000+48 to 15001+08 (C-101)         Private eas         S273+56 to 15281+05 (C-119)         S281+33 to 15283+04 (C-119)         Side of         S281+33 to 15283+04 (C-119)         Side of         QUESTED FOR SEGMEN	Comments         ement; Lower Bellany St Private         Landowner -         ement; Lower Bellany St Private         - Transition from Lower Bellany St.         Intent; Along SR22 @ Retaining Wall         meet CC140 requirements         ement; - running adjacent to West         CP Rail; outside deviation zone         er CC 140. Section 4.7         CHAMPLAIN HUI         SCHAMPLAIN HUI         SCHAMPLAIN HUI         SCHAMPLAIN HUI	Table 5.2 - Construction Mater Staging Location         Location         Segment/       (Approximate- She Package see Drawings for Num Details)         3/1C       15074+50       C-4         3/1C       15074+50       C-4         3/1C       15138+60       C-4         3/1C       15128+15       C-4         3/1C       15128+15       C-4         3/1C       15231+50       C-4         3/1C       15230+05 </td <td>Ims       Ims         et       Staging Area Description         ber       Imposite and the second provide and the secon</td>	Ims       Ims         et       Staging Area Description         ber       Imposite and the second provide and the secon
Segment/ PackageHDD DesignationHDD Length (feet)Reason for HDDSheet NumberLocation (Approximate- see Drawings for Details3/1CHDD-31868, 1869WetlandsC-105 to C-10715074+50 to 15093+203/1CHDD-4628, 650CulvertC-11015138+60 to 15144+753/1CHDD-4A735, 760Railroad TracksC-111 to C-11215163+05 to 15170+503/1CHDD-5712, 723Culvert & WetlandsC-112 to C-11315175+15 to 15182+403/1CHDD-61339Railroad Tracks & CulvertC-11815256+05 to 15231+503/1CHDD-71305WetlandsC-11815256+05 to 15269+003/1CHDD-8655, 838Railroad Tracks & CulvertC-120 to C-12115296+20 to 15304+95Note: Table 4.1 describes the locations of HDD activity within this Package. HDD will be performed in accordance with the HorizontzDirection Drilling Site Investigation and Planning Report and Inadvertent Release and Contingency Plan in Appendix 3, the specificationdescribed in Section 4.3.1, and the BMP document.	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Section 4.7         CHAMPLAIN HUI         SCHAMPLAIN HUI         SEGMENT 3 (PACKAGE         EM&CP D/	Table 5.2 - Construction Mater Staging Locati 	et       Staging Area Description         25       HDD-3 Entry Area Description         25       HDD-3 Entry Area Description         26       HDD-4 Entry Area Description         27       HDD-4 Entry Area Description         26       HDD-4 Entry Area Description         27       HDD-4 Entry Area Description         28       HDD-5 Entry Area Description         29       HDD-6 Entry Area Description         20       HDD-7 Entry Area Description         20       HDD-8 Entry Area Description         20       HDD-8 Entry Area Description         20       HDD-8 Entry Area Description         21       HDD-8 Entry Area Description         22       HDD-8 Entry Area Description         23       HDD-7 Entry Area Description         24       HDD-8 Entry Area Description         25       and equipment.         JCTION METHODS DISCUCATIONS         Sing Loccations         Sing Loccations         KIEWIT PROJECT NO. 066076         DRAWING NO.
Segnent/ Package       HDD Designation       HDD Length (feet)       Reason for HDD       Sheet Number       Location (Approximate see Drawings for Details (see Drawings for Details         3/1C       HDD-3       1868, 1869       Wetlands       C-105 to C-107       15074+50 to 15093+20         3/1C       HDD-4       628,650       Culvert       C-110       15138+60 to 15144+75         3/1C       HDD-4A       735,760       Raitroad Tracks       C-111 to C-112       15163+05 to 15170+50         3/1C       HDD-6       1339,       Raitroad Tracks & Culvert       C-113       15175+15 to 15182+40         3/1C       HDD-7       1305       Wetlands       C-116       15218+15 to 15231+50         3/1C       HDD-7       1305       Wetlands       C-112 to C-121       15296+20 to 15304+95         3/1C       HDD-7       1305       Wetlands       C-120 to C-121       15296+20 to 15304+95         Note: Table 4.1 describes the locations of HDD activity within this Package. 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<u>AQUA</u>	<u>ATIC INN</u>	<u>/ASIVE_SPEC</u>	<u>CIES/LOCATION</u>				Segment/ Package	Location (Approximate- see Drawings for Details)	Sheet Number	Staging Area Description		
		Table 4.4A – CC 14	10 Waivers Requested for Segment 3					1				
	·						3/10	15074+50	C-105	HDD-3 Entry Area		
el ID		Description	Location (Approximate – See		Comments		3/1C 3/1C	15093+20	C-107 C-110	HDD-3 Exit Area HDD-4 Entry Area		
;11D		Description	Drawings for Details)		Comments		3/1C	15138+60 15144+75	C-110 C-110	HDD-4 Exit Area		
							3/1C	15163+05	C-110 C-111	HDD-4A Entry Area		
1-3-3	Per	manent Easement	15000+09 to 15000 +48 (C-101)	Private	easement; Lower Bellamy St Private		3/1C	15170+50	C-112	HDD-4A Exit Area		
			`´´		Landowner -		3/1C	15175+15	C-112 C-112	11DD-5 Entry Area		
				1	easement; Lower Bellany St Private		3/1C	15182/40	C-112	HDD-5 Exit Area		
-3-4	Per	manent Easement	15000+48 to 15001+08 (C-101)	Landow	ner - Transition from Lower Bellamy St.		3/1C	15218+15	C-115	HDD-6 Entry Area	D	,
					to CP Rail		3/1C	15231+50	C-116	HDD-6 Exit Area	B	)
oute 22	Per	manent Easement	15002+66 to 15016+31 (C-101 to C-102	2) Public ca	sement; Along SR22 @ Retaining Wall		3/1C	15256+05	C-118	HDD-7 Fatry Area		
			· · ·		to meet CC140 requirements		3/1C	15269÷00	C-118	HDD-7 Exit Area		
-6	Per	manent Easement	15273+56 to 15281+05 (C-119)	1	easement; - running adjacent to West		3/1C	15296+20	C-120	HDD-8 Entry Area		
					of CP Rail; outside deviation zone		3/1C	15304+95	C-121	HDD-8 Exit Area		
-18.1	Per	manent Easement	15281+33 to 15283+04 (C-119)		casement; - running adjacent to West of CP Rail; outside deviation zone		Note: Tabl	e 5.2 summarizes the	locations of	where		
lures that w	ill be followed	l in regards to land acc	egment 3 – Package 1C that CHPE is services and acquisition. RS REQUESTED FOR	eking waivers	s per CC 140. Section 4.7		during the c summarizes	n materials and equip construction of this Pa s the procedures that s of all construction m	ickage. Sec will be follow	tion 5.4 wed for the storage		
<u>ں</u>			NS NEWOLSTED TON	SLGIVILI	<u>NT 5</u>			<u>– CONS</u> PMENT ST				
					CHAMPLAIN I				22		ROJECT NO.	
											1162	
					SEGMENT 3 (PAC	KAGE 1C)WHI	TEHAL	L TO FOR	t ann		OJECT NO.	
					•	,					66076	
					EM&C	P DATA TABLE	S (2 OF	- 3)		DRAV	VING NO.	
0	03/22/2023	ISSUED FOR CONSTRUCT		TM JPR						G-	012	
No.	DATE	SUBMITTAL / REVISIO					SC	ALE	AS NOTED		03/22/2023	
	DATE	SUDIVITI TAL / REVISIC			DRAWN BY: JJE DESIGNED	BY: JTM APPROVED B	Y: JPR RE	V. NO.		X		

	Cal	ocated Utilities	
		Location (Approxin	ate - See Drawings for etails)
Utility Type Underground (UG) Overhead (OH)	Parallel or Perpendicular to the Alignment	Station - Starting Point for Parallel and Crossing Point for Perpendicular	-
Water Line	Parallel	15000+00	15000+75
Storm Sewer	Parallel	15000+00	15003+00
UG Utility (Fiber)	Parallel	15000+93	15299+50
UG Utility (Fiber)	Parallel	15000+93	15002+00
UG Utility (Fiber)	Parallel	15000+93	15297+50
Storm Sewer	Parallel	15001+00	15003+75
UG Utility (Fiber)	Parallel	15002+38	15015+53
OH Utility (Telephone)	Perpendicular	15002+71	N/A
OH Utility (Electric) OH Utility (Telephone)	Perpendicular Perpendicular	15002+74 15006+68	N/A N/A
OH Utility (Electric)	Perpendicular	15006+72	N/A N/A
Sanitary Sewer	Perpendicular	15007+19	N/A
OH Utility (Electric)	Perpendicular	15008+62	N/A
OH Utility (Electric)	Perpendicular	15008+66	N/A
OH Utility (Telephone)	Perpendicular	15008+73	N/A
Storm Drainage Pipe/Culvert	Perpendicular	15009+45	N/A
Water Line	Perpendicular	15012+50	N/A
Water Line	Perpendicular	15012+75	N/A
Storm Sewer	Perpendicular	15012+89	N/A
Storm Sewer	Perpendicular	15013+70	N/A
OH Utility (Telephone)	Perpendicular	15013+80	N/A
Storm Drainage Pipe/Culvert	Perpendicular	15014+11	N/A
Sanitary Sewer	Perpendicular	15015+33	N/A
UG Utility (Fiber)	Parallel	15015+48	15016+23
OH Utility (Electric)	Perpendicular	15015+52	N/A
Storm Drainage Pipe/Culvert	Perpendicular	15015+96	N/A
Storm Drainage Pipe/Culvert	Perpendicular	15016+00	N/A
Sanitary Sewer	Parallel	15016+55	15028+64
Storm Sewer	Perpendicular	15017+80	N/A
Combine Sanitary and Storm Sewer	Perpendicular	15018+45	N/A
Combine Sanitary and Storm Sewer	Perpendicular	15024+55	N/A
Combine Sanitary and Storm Sewer	Perpendicular	15029+45	N/A
Combine Sanitary and Storm Sewer	Perpendicular	15031+50	N/A
OH Utility (Telephone)	Perpendicular	15032+00	N/A
OH Utility (Electric)	Perpendicular	15032+04	N/A
Storm Sewer	Perpendicular	15033+10	N/A
Sanitary Sewer	Parallel	15033+64	15039+81
Water Line	Perpendicular	15033÷71	N/A
Storm Sewer	Perpendicular	15035+55	N/A
UG Utility (Fiber)	Parallel	15036+81	15041+50
OH Utility (Electric)	Perpendicular	15037+06	N/A
UG Utility (Telephone) Combine Sanitary and	Parallel Perpendicular	15037+25	15041+51 N/A
Storm Sewer			
UG Utility (Fiber)	Parallel	15043+02	15045+21
Water Line Combine Sanitary and	Perpendicular Perpendicular	<u>15045+45</u> 15047+50	N/A N/A
Storm Sewer			
UG Utility (Electric)	Perpendicular	15047+50	N/A

Storm Drainage Pipe/CulvertParallel15048+5015048+95Storm Drainage Pipe/CulvertPerpendicular15049+46N/AUG Utility (Electric)Perpendicular15052+10N/AStorm Drainage Pipe/CulvertParallel15052+10N/AStorm Drainage Pipe/CulvertParallel15056+3815056+60Storm Drainage Pipe/CulvertPerpendicular15062+00N/AUG Utility (Fiber)Parallel15076+2815084+32UG Utility (Fiber)Parallel15086+09N/AUG Utility (Electric)Perpendicular15086+09N/AStorm Drainage Pipe/CulvertPerpendicular15086+39N/AStorm Drainage Pipe/CulvertPerpendicular15087+50N/AStorm Drainage Pipe/CulvertPerpendicular15093+2415095+40Water LineParallel15093+2415095+40Water LineParallel15093+2415095+40OH Utility (Fiber)Parallel15097+2115101+03OH Utility (Fiber)Parallel15097+2115101+03OH Utility (Electric)Perpendicular15097+321512+06Storm Drainage Pipe/CulvertPerpendicular15104+89N/AOH Utility (Electric)Parallel15097+3215132+06Storm Drainage Pipe/CulvertPerpendicular15104+89N/AStorm Drainage Pipe/CulvertPerpendicular15121+58N/A	)
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Pipe/CulvertPerpendicular15104+89N/AStorm Drainage Pipe/CulvertPerpendicular15121+58N/A	I
Pipe/Culvert Perpendicular 15121+58 N/A	
OH Utility (Electric) Perpendicular 15123+68 N/A	
UG Utility (Fiber) Parallel 15133+75 15165+25	
UG Utility (Fiber) Perpendicular 15139+00 N/A	
UG Utility (Fiber) Perpendicular 15140+00 N/A	
Storm Drainage Pipe/Culvert Perpendicular 15141+85 N/A	
UG Utility (Fiber) Perpendicular 15165+27 N/A	
UG Utility (Fiber) Perpendicular 15165+45 N/A	
Storm Drainage Pipe/Culvert Perpendicular 15178+50 N/A	
UG Utility (Fiber) Parallel 15221+81 15225+33	
UG Utility (Fiber) Perpendicular 15224+79 N/A	
UG Utility (Fiber) Perpendicular 15225+93 N/A	
UG Utility (Electric) Parallel 15226+39 15280+50	
Storm Drainage Pipe/Culvert Perpendicular 15227+57 N/A	
OH Utility (Electric) Perpendicular 15280+84	
OH Utility (Electric) Perpendicular 15280+87 N/A	
UG Utility (Telephone) Perpendicular 15281+18 N/A	
UG Utility (Fiber) Perpendicular 15281+00 N/A	
UG Utility (Electric) Parallel 15281+08 15282+26	
UG Utility (Fiber) Perpendicular 15298+00 N/A	·····
UG Utility (Fiber) Perpendicular 15300+10 N/A	
OH Utility (Electric) Perpendicular 15301+80 N/A	
OH Utility (Electric) Perpendicular 15304+50 N/A	

OH Utility (Electric) Perpendicular 15304+50 Note: The table above describes the CI utilities within this Package. Appendix R includes the utility summation matrix which includes additional information such as the CI owner, size, length, and description. Section 13.3 describes the procedures that will be followed for all utility crossings.

SEGMENT 3 - CO-LOCATED UTILITIES

	Table 12.2 - NYSDOT
<b>Coordinating Parties</b>	
Certificate Holders, DPS Staff,	All plans and work to t
NYSDOT	under NYSDOT's sup
Centificate Holders, DPS Staff, NYSDOT staff	Certificate Holders sha staff with a preliminary potential transportation seek to undertake in th NYSDOT Staff concer shall use reasonable eff concerns (CC68).
Certificate Holders, NYSDOT. Agency crossed by Project	Certificate Holders will department or agency i related structures, and Facility or used for dire the access road takes of limits of, such roads, the relevant transportation approximate date wher
Certificate Holders, NYSDOT, DPS Staff, NYSDEC	The Certificate Holders summarizing constructi activities and locations
Note: Table 12.2 describes the consultation is included in Ap	
EGMENT 3 -	NYSDOT

Segment/ Package	Municipality	Jurisdiction	Description	Crossing Method	Sheet Number	Location (Approximate see Drawings for Details)
				Parallel		
3/1C	Whitehall	Whitehall	Lower Bellamy Street	Construction	C-101	15000+00 to 15001+00
				Open Trench		
				Under DOT#248-		
3/1C	Whitehall	Whitehall	Clinton Street	962C bridge.	C-101	15003+00
				Open Trench		
			Division Street and	Under DOT #248-		
3/1C	Whitehall	Whitehall	Sanders Street	961V Bridge.	C-101	15006+69 to 15009+25
			Sanders Sireet	Open Trench.		
				Under DOT#248-		
3/1C	Whitehall	NYSDOT	Poultney Street	960N Bridge.	C-103	15033+00 to 15034+00
				Open Trench		
3/1C	Whitehall	Privately Owned	CP Rail MP 75.36 DOT#249-264M	Open Trench	C-111	15150+30
3/1C	Whitehall	Whitehall	Ryder Road	Open Trench	C-119	15281+00

ROAD AND HIGHWAY CROSSINGS AND PARALLEL CONSTRUCTION









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Owner	Utility	Initial Contact	Cl Owner	Outreach Mailing #2	Outreach Mailing #3
		Date	Response		
				1/27/22 email sent with	7/11/22 (Pkg 1C) & 7/15/22
AT&T	Fiber/ Telephone	9/9/21	Crossing conditions	kmz digital map of route	(Pkg 2)
	rate receptone	11121	received	and request for records,	Plan & Profile drawings
				data & information of CI	provided for review.
Level 3			Support services	1/27/22 email sent with	7/11/22 (Pkg 1C) & 7/15/22
Communications (now	Fiber	9/10/21	agreement in place.	kmz digital map of route	(Pkg 2)
Lumen Technologies)			Crossing conditions	and request for records,	Plan & Profile drawings
			received.	data & information of CI	provided for review.
				1/27/22 email sent with	
				kmz digital map of route	
National Grid/East/		0 (1 0 10 1	Crossing conditions	and request for records,	Consultations on going/
Electric	Electric	9/10/21	received.	data & information of CI	outreach not provided to dat
				along Project Corridor.	
				Received locations of	
				overhead electric lines. $1/27/22$ email sent with	
Time Warner Cable			No action required		7/11/22 (Direction $30$ ) & $7/15/22$
(Charter	Fiber/CATV	9/23/21	until plans are	.kmz digital map of route and request for records,	7/11/22 (Pkg 1C) & 7/15/22 (Pkg 2) Plan & Profile
Communications/Spec	FIDENCALV	9123121	available for review.	data & information of CI	drawings provided for review
trum)		,		along Project Corridor.	drawings provided for review
			-	1/27/22 email sent with	
			No action required	kmz digital map of route	7/11/22 (Pkg 1C) & 7/15/22
Verizon or	Telecom, Fiber/	9/10/21	until plans are	and request for records,	(Pkg 2) Plan & Profile
Verizon/East	Telephone		available for review.	data & information of CI	drawings provided for review
				along Project Corridor.	
		5/31/21			Plans and profiles were
Washington County	Route 4, Storm	Zoom	N/A	N/A	submitted to Washington
washington County	Sewers	Meeting			County for review on 7/18/22
	Storm Sewer,				Pkg 1C Plans and profiles
Village of Whitehall	Sanitary Sewer,	10/7/21	N/A	N/A	were submitted for review on
	Water Lines				7/11/22.
		<b>N</b> T ( A			Plans and profiles were
Town of Fort Ann	None	N/A	N/A	N/A	submitted for review on
					07/18/22.
					Plans and profiles were
Town of Kingsbury	None	N/A	N/A	N/A	submitted to Washington
	inone				County for review on 7/18/22

Note: Table 13.1 describes the CI owners that were identified within this Package. Section 13.1 and Appendix R describe the consultation between CI owners and the Certificate Holders.

# SEGMENT 3 - CO-LOCATED INFRASTRUCTURE CONSULTATION SUMMARY

Coordination Summary re performed in State-owned ROW Ongoing pervision and management. throughout Il provide DPS Staff and NYSDOT design marked to avoid conflict with Prior to filing any n projects that NYSDOT Staff may he future and shall offer to consult with coming any comments it may offer and involving any such fforts to accommodate any NYSDOT il consult with each transportation having jurisdiction over any roads, d components that will be crossed by the firect access to the Construction Zone. If of the EM&CP and direct access from, or lies within the when work begins. the Certificate Holders will notify each department or agency of the n work will begin (CC69a).

s will provide status reports tion and indicating construction Bi-weekly. s scheduled for the next month (CC47). with NYSDOT. Additional documentation of this

# COORDINATION SUMMARY

Coordinating Parties	Description	Current Status
CP Rail, Certificate Holders	Pre-Construction Planning: CP Rail has provided construction requirements including a minimum 6.6 feet of separation from centerline of track.	Regular meetings to discuss project; Plans and Profiles have been provided for review and comment.
CP Rail, Certificate Holders	Construction Permitting: Certificate Holders will need to have all at grade rail crossing (for access roads) and HDD crossings (for the conduit) permitted by CP Rail prior to discussion.	Regular meetings to discuss project

Note: Table 13.3 summarizes the pre-construction coordination with CP Rail. To the extent practicable, construction of the Project will be conducted in accordance with the policies and guidelines identified in Appendix U so as to avoid any interference with interruption, or endangerment of any CP operations and facilities. If any procedure outlined in Appendix U cannot be followed, the Certificate Holders will seek a waiver and/or approval from CP Rail. The Certificate Holders will continue to coordinate directly with CP Rail and DPS staff throughout construction.

# SEGMENT 3 - CP RAIL COORDINATION SUMMARY Table 13.7 CP Deilrood Crossing

Segment/Package	Crossing ID	Crossing Method	Sheet Number	Location (Approximate see Drawings for Details)
3/1C	Railroad Spur CP Rail MP 77.01	Open trench	C-105	15062+00 to 15063+00
3/1C	CP Rail Crossing MP 75.10-74.95	HDD#4A	C-111 to C-112	15162+87 to 15171+57
3/1C	CP Rail Crossing MP 74	HDD#6	C-115 to C-116	15217+00 to 15233+00
3/1C	CP Rail Crossing MP 117.55	HDD#8	C-120 to C-121	15296+00 to 15303+00

Note: Table 13.2 describes the CP Railroad crossings within this Package. Access roads that cross the railroad are described in Table 4.6 and Section 4.10. Section 13.2 describes the procedures that will be followed for all railroad crossings. <u>SEGMENT 3 – CP RAILROAD CROSSINGS</u>

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 ACHIERED, THE ALTENING ENGINEER, ARCHIECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DR
0	03/22/2023	ISSUED FOR CONSTRUCTION SUBMISSION	JTM	JPR	1
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		Table 8.4 –	Tree and Vegetation Clearing Le	ocations	
Segment/ Package	Description	Sheet Number	Location (Approximate See Drawings for Details)	Vegetation/ Tree Clearing Method Type	Applicable Environmental Sensitive Area Requirements
3/1C	Tree Clearing	C-101	15000-00 to 1500300	Туре І	Residential Area
3/1C	Tree & Vegetation Clearing	C-102	15017-25 to 15018-25 15018-50 to 15019-75 15020-00 to 15021-50 15021-75 to 15026-75 15028-50 to 15029-00	Type I & IV	Residential Area
3/1C	Vegetation Clearing	C-102 to C-103	15029-75 to 15033-25	Түре 1	Residential Area
3/1C	Tree Clearing	C-103	15030-25 to 15031-00 15032-25 to 15033-25 15034-75 to 15035-75 15037-25 to 15037-75 15038+75 to 15040+00 15041-25 to 15042-25 15042-75 to 15045-00	Тур≈ IV	Residential Area
3/1C	Vegetation Clearing	C-103	15030-00 to 15033-00 15034-00 to 15037-00 15038-75 to 15040-00 15041-25 to 15045-50	Туре Ц. Ш	N/A
3/1C	Tree Clearing	C-104	15045-50 to 15045-75 15046-25 to 15046+50 15055-75 to 15056+75 15057-50 to 15057-75 15058-00 to 15058-50	Туре IV	N/A
3/1C	Vegetation Clearing	C-104	15046-00 to 15048-50 15049-00 to 15052-00	Туре II, Ш	N/A
3/1C	Vegetation Clearing	C-104 to C-105	15055-00 to 15062-50 15060-00 to 15060-50	Тур≈ II, Ш	N/A
3/1C	Tree Clearing	C-105	15060-00 to 15060-50 15062-25 to 15062-75 15063-50 to 15064-50 15065+00 15065+75 to 15074-25	Type IV	Wetlands
3/1C	Tree Clearing	C-107	15095+00	Type IV	Wetland G-R-X
3/1C	Vegetation Clearing	C-107	15096-00 to 15097+50 35323+00	Type 1	Wetland G-R-X
3/1C	Tree Clearing	C-109	15130-50 to 15131-00 15134-15135+00	Турь IV	Wetland G-R-X
3/1C	Vegetation Clearing	C-110	15137-00 to 15139-25	Туре І	Wetland G-R-X
3/1C	Tree Clearing	C-110	15137-00 to 15137-25 15138-00 to 15139-75 15143-00 to 15150-00	Type IV	Wetland G-R-X
3/1C	Vegetation Clearing	C-110 to C-112	15144-50 to 15176-00	Туре Ц ІІ, ІІІ	Wetland G-R-X, Agricultural Lands
3/1C	Tree Clearing	C-111	15150-00 to 15150-25 15150-50 to 15159-00	Type IV	Wetland G-R-X
3/1C	Tree Clearing	C-112	15159-50 to 15163-00 15171-00 to 15175-25	Type IV	Wetland GRU
3/1C	Vegetation Clearing	C-113	15182-00 to 15189-00 15189-50 to 15190-25	Туре І, ІІ, ІІІ	Wetland G-R-W
3/1C	Vegetation Clearing	C-113 to C-115	15191-25 to 15218-50	Type L IL III	Wetland G-R-W
3/1C	Tree Clearing	C-113	15182-00 to 15184-00 15186+50 15187+50 15190-00 to 15190-50 15191-00 to 15193-75 15194-25 to 15195-00	Туре IV	N∕A
3/1C	Tree Clearing	C-114	15195+00 to 15198-75 15200-50 to 15203+50 15203-75 to 15210-00	Type IV	N/A
3/1C	Vegetation Clearing along Access Road	C-114/C-213	15196+50	Туре І, ІІ, ІІІ	Wetland CC
3/1C	Vegetation Clearing	C-116 to C-118	15231+25 to 15256-50	Туре I, II, III	Wetland G-R-X, Agricultural Lands
3/1C	Tree Clearing	C-116	15233-50 to 15234-50	Type IV	Agricultural Lands
3/1C	Tree & Vegetation Clearing along Access Road	C-117/C-214	15241+00	Type IV	Wetland G-R-X, Agricultural Lands
3/1C	Tree Clearing	C-117	15252-50 to 15254-00	Турх IV	Wetland G-R-X, Agricultural Lands
3/1C	Vegetation Clearing	C-118 to C-119	15274-50 to 15280-75	Type 1	Wetland G-R-X, Agricultural Lands
3/1C	Tree Clearing	C-118	15268-75 to 15269-75	Type IV	Wetland G-R-X, Agricultural Lands
3/1C	Vegetation Clearing	C-119 to C-120	15281-25 to 15296-50	Type 1	Wetland G-R-Y, Agricultural Lands
3/1C	Tree Clearing	C-119	15280-00 to 15280-75 15281-25 to 15283-00	Type IV	Wetland G-R-X & G-R-Y, Agricultural Lands
3/1C 3/1C	Tree Clearing Vegetation Clearing	C-120 C-121	15291+50, 15294+00 to 15294+50 15301+25 to 15306+00	Type IV Type IL III	Wetland G-R-Y N/A
3/1C	Tree Clearing	C-121	15302-50 to 15303-25 15304-00 to 15304-50	Type IV	Wetland CIII
Note: Table 8.4	identifies the clearing los	ations and methods a	within this Package. The following	sections describe the procedur	es that will be followed for

Note: Table 8.4 identifies the clearing locations and methods within this Package. The following sections describe the procedures that will be followed for these environmentally sensitivie areas.

1. Wetlands: Section 8.2.1 and 9.1.

2.Stream Crossing: Section 8.2.1 and Section 9.1.

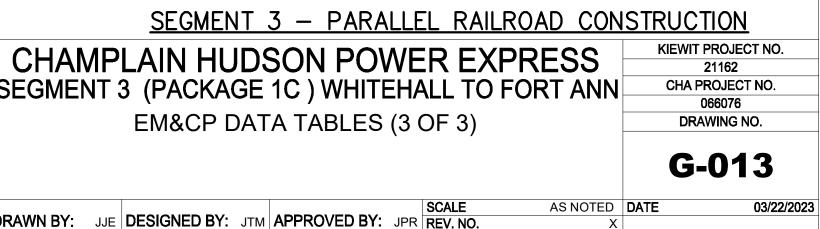
3. Threatened and Endangered Species/Sensitive Habitats: Section 9.3.

### 4. Agricultural Lands: Section 8.2.2.

# SEGMENT 3 - TREE AND CLEARING LOCATIONS

Railroad Owner	Railroad Milepost	Approximate Station Location (See Drawing for Details)
CDD	MP 78.11 to	15001+00 to 150303+00
CP Rail	MP 72.42	(C-101 to C-121)

within this Package. Section 13.2 describes the procedures to be followed during all parallel railroad construction.



B

# 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 SECTION 14. 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

AS DESCRIBED IN THE BMP DOCUMENT, CLEANUP, 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 ROW WILL BE THOROUGHLY CLEANED AFTER CONSTRUCTION IS COMPLETED ON THAT PARTICULAR SECTION. 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. NO FABRICATED DEBRIS IS TO BE BURNED OR BURIED. ALL TRUCKS LEAVING THE CONSTRUCTION AREA WILL BE LOADED AND COVERED IN ACCORDANCE WITH APPLICABLE REGULATIONS AS NEEDED AS DESCRIBED IN THE SOIL AND MATERIALS MANAGEMENT PLAN OF THE EM&CP IN APPENDIX L.

# **RESTORATION AND PLANTING**

THE FINAL STAGE OF CONSTRUCTION WILL CONSIST OF RESTORING THE ROAD AND CONSTRUCTION ROWS AND THIS SEGMENT TO ITS ORIGINAL CONDITION AND CHARACTER AS MUCH AS POSSIBLE/IS 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 AND MATERIALS MANAGEMENT PLAN IN APPENDIX L. HDD ENTRY AND EXIT PITS WILL BE BACKFILLED AND THE DISTURBED GROUND SURFACE WILL BE SIMILARLY GRADED. THE ENTRY AND EXIT POINTS FOR EACH HDD CROSSING ARE DESCRIBED IN TABLE 5.2. TRENCHES WILL BE BACKFILLED IN ACCORDANCE WITH THE MEASURES OUTLINED IN SECTION 4.4. THE CERTIFICATE HOLDER WILL BE RESPONSIBLE FOR 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.

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

THE CONSTRUCTION MATERIALS AND EQUIPMENT STAGING LOCATIONS FOR THIS SEGMENT ARE SUMMARIZED IN 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.

# SEEDING AND PLANTING

AS DESCRIBED IN THE BMP DOCUMENT. SEEDING OPERATIONS ACROSS THE 35-FOOT-WIDE CONSTRUCTION AND FACILITY ROW AS WELL AS WITHIN STAGING AND LAYDOWN AREAS WILL COMMENCE ONLY AFTER AN ACCEPTABLE SEEDBED HAS BEEN ESTABLISHED, AS DESCRIBED ABOVE. SEED WILL BE APPLIED BY HAND, OR VIA HYDRO-SEEDERS. THE ENTIRE SEEDED AREA WILL BE WATERED WITH A FINE SPRAY, AS NECESSARY, UNTIL A UNIFORM MOISTURE DEPTH OF APPROXIMATELY ONE (1) INCH HAS BEEN ACHIEVED AS APPLICABLE. 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, AS APPLICABLE, AT THE APPROPRIATE RATES AFTER SEED IS APPLIED AND/OR TO A HYDROMULCH/SEED SLURRY. 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. SEEDED AREAS WILL BE MONITORED FOLLOWING RESTORATION UNTIL A MINIMUM VEGETATIVE COVER OF EIGHTY (80) PERCENT IS ACHIEVED. THE SEED MIXTURES WILL FOLLOW THE TECHNICAL SPECIFICATIONS INCLUDED ON THE PLAN AND PROFILE DRAWINGS IN APPENDIX C FOR UPLANDS AND WETLAND BUFFER ZONES. 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.

THE MAJORITY OF SOIL DISTURBANCE FOR THIS SEGMENT WILL BE WITHIN THE TRENCH-LINE FOR THE CONDUIT/CABLE. HOWEVER, SOME DISTURBANCE WILL ALSO OCCUR DURING INSTALLATION AND REMOVAL OF TEMPORARY ACCESS ROADS AS DESCRIBED IN SECTION 4.10 OF THE EM&CP. ALL TRENCH AREAS AND OTHER EXCAVATED AREAS WILL BE RESEEDED WITH AN APPROPRIATE SEED MIX AS IDENTIFIED ABOVE. VEGETATION THROUGHOUT THE CONSTRUCTION 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.

WHEN TREE CLEARING IS 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 LANDSCAPED AREAS, AND RECREATIONAL AREAS, WILL BE REPLACED WITHIN THE FOLLOWING YEAR BY THE CERTIFICATE HOLDERS WITH THE EQUIVALENT TYPE OF TREES OR SHRUBS EXCEPT

- 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

DIRECT IMPACTS TO STREAMS AND WATERBODIES ASSOCIATED WITH THIS SEGMENT HAVE BEEN AVOIDED BY CROSSING OVER OR UNDER EXISTING CULVERTS. AND INCORPORATING HDD METHODS. HOWEVER, IF IMPACTS TO WATERBODIES DO OCCUR, PER THE CERTIFICATE CONDITION 117 . THE CERTIFICATE HOLDERS HAVE ESTABLISHED AND WILL IMPLEMENT THE FOLLOWING PROGRAM TO MONITOR THE SUCCESS OF STREAM RESTORATION UPON COMPLETION OF CONSTRUCTION AND RESTORATION ACTIVITIES. PER CONDITIONS K AND L OF THE USACE PERMIT. THE FOLLOWING WILL DETERMINE IF STREAM AND RESTORATION IS SUCCESSFUL:

- 1. ALL PLANTINGS HAVE AN 85% SURVIVAL RATE
- 2. ALL ESTABLISHED WETLAND AREAS IN CONJUNCTION WITH THE COMPENSATORY MITIGATION HAVE AN 85% COVERAGE RATE OF HYDROPHYTIC PLANTS.
- 3. VEGETATION IN NEWLY ESTABLISHED WETLAND AREAS DO NOT CONSIST OF MORE THAN 5% TOTAL AREAL COVERAGE OF COMMON REED GRASS, PURPLE LOOSESTRIFE, REED CANARY GRASS, JAPANESE KNOTWOOD, TARTARIAN HONEYSUCKLE, EURASIAN MILFOIL, AND/OR OTHER INVASIVE SPECIES.

PER CONDITION NN OF THE USACE PERMIT THE CERTIFICATE HOLDERS, SHALL PROVIDE ADDITIONAL MONITORING REPORTS, AS DIRECTED IN WRITING, SHOULD IT BE DETERMINED THAT THE WETLAND MITIGATION SUCCESS CRITERIA LISTED ABOVE HAVE NOT BEEN MET FOR THREE CONSECUTIVE YEARS.

### **RESTORATION OF WETLANDS**

THESE AREAS WILL BE RESTORED IN ACCORDANCE WITH SECTION 14.4.2 OF THE EM&CP AS CLOSE AS PRACTICABLE TO PRE-CONSTRUCTION CONDITIONS AND CONTOURS. 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 HOLDER. ALL MOTORIZED CONSTRUCTION EQUIPMENT WILL BE TRANSPORTED TO OFF-SITE FACILITIES. ALL WETLAND MATS AND MATERIALS WILL BE COLLECTED, PACKED, AND TRANSPORTED TO OFF-SITE STORAGE FACILITY OR TO THE NEXT SEGMENT'S STAGING AREAS NEEDED.









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 (2) YEAR SURVIVAL GUARANTEE. AS DESCRIBED IN THE BMP DOCUMENT, 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.

SWPPP INSPECTIONS WILL BE PERFORMED BY THE ENVIRONMENTAL INSPECTOR ON A WEEKLY BASIS UNTIL ALL DISTURBED AREAS HAVE ACHIEVED 80% REVEGETATION AND HAVE ACHIEVED FINAL STABILIZATION. 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 SHEETS.

# RESTORATION OF RECREATIONAL AREAS

FOLLOWING CONSTRUCTION, THE CERTIFICATE HOLDERS WILL RESED THE CONSTRUCTION AREA WITHIN RECREATIONAL AREAS (WHERE IMPACTED AND IF APPLICABLE) 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.

# ROADWAY RESTORATION (STRIPING, SIGNAGE, AUDIBLE ROADWAY **DELINEATORS**)

STRIPING IMPACTED OR REMOVED FROM CONSTRUCTION WITHIN THE LIMITS OF WORK, INCLUDING AREAS OF MILL AND OVERLAYS IS TO BE REINSTALLED PER EXISTING STRIPING PATTERNS. CONTRACTOR SHALL INVENTORY ALL STRIPING PRIOR TO WORK. WORK IS TO BE COMPLETED IN ACCORDANCE WITH NYSDOT STANDARD SHEETS AND SPECIFICATIONS (SEE 685 SERIES STANDARD SHEETS). SIGNAGE IMPACTED, DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN KIND OR REINSTALLED IN ACCORDANCE WITH NYSDOT STANDARD SHEETS AND SPECIFICATIONS (SEE 645 SERIES STANDARD SHEETS). AUDIBLE ROADWAY DELINEATORS DAMAGED OR REMOVED DUE TO CONSTRUCTION SHALL BE INSTALLED DURING RE-PAVING OPERATIONS IN ACCORDANCE WITH NYSDOT STANDARD SHEET 649-03.

### **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 STAFE 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 AND CONTROLS APPROPRIATE FOR THOSE LOCATIONS, AS APPROPRIATE. THE CERTIFICATE HOLDERS WILL CONSULT THE MUNICIPAL OR HIGHWAY DEPARTMENT AND OR 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 PROVIDED IN THE PLAN AND PROFILE DRAWINGS. GUIDE RAILS WILL BE REMOVED AND REPLACE IN ACCORDANCE WITH NYSDOT STANDARD SHEET 606.01.

## **RESTORATION OF RAILWAY BALLAST**

UPON COMPLETION OF THE INSTALLATION OF THE OVERLAND TRANSMISSION CABLE. THE SURFACE OF THE RAILROAD ROW DISTURBED BY CONSTRUCTION ACTIVITIES WILL BE GRADED TO MATCH THE ORIGINAL TOPOGRAPHIC CONTOURS AND TO BE COMPATIBLE WITH SURROUNDING DRAINAGE PATTERNS. BACKFILL OR FILL WILL BE COMPACTED TO MATCH SURROUNDING GRADE. THE GROUND COVER WILL BE RETURNED TO PRE-EXISTING CONDITIONS, BY REVEGETATING THE BALLAST OR STABILIZING WITH BALLAST STONE. TO ENSURE PROPER RESTORATION AND PROTECTION OF THE RAILWAY BALLAST, THE RAILROAD OWNERS HAVE BEEN CONSULTED TO ENSURE RESTORATION MEETS THE ENGINEERING REQUIREMENTS OF THE RAILWAYS.

# SEED MIXES

- A. GENERAL SEED: 1. PIPELINE MIX V
- 2. MIX COMPOSITI
- 33.0% PANICUM 25.0% FESTUCA
- 18.0% LOLIUM 16.0% PHLEUM
- 5.0% TRIFOLIUM 3.0% AGROSTIS
- 3. APPLIED AT A
- B. ADIRONDACK SEED
- 1. MIX COMPOSITI 25% VIRGINI 25% CANAD
- 25% AUTUMN
- 25% CAMPE 2. APPLIED AT A
- C. SPECIALIZED WETL
- 1. MIX COMPOSITI
  - 35.0% CARE 20.0% ELYM
  - 15.0% CARE 12.8% CARE
  - 5.0% CAREX
  - 4.0% VERBEI 2.0% HELIOP
  - 1.0% CAREX
  - 1.0% SPARG 0.7% IRIS VE
  - 0.5% BIDENS
  - 0.5% CAREX
  - 0.5% CAREX
  - 0.5% EUPAT 0.5% SCIRPL
  - 0.5% VERNC
  - 0.3% LOBEL
  - 0.2% PENTH
- 2. APPLIED AT A 3. COVER CROP S BASED ON SEA
- D. FACW WETLAND M
- 1. MIX COMPOSITI 21.0% CAREX
- 20.0% ELYMU 16.0% CAREX
- 12.0% CAREX
- 12.0% CAREX
- 3.0% VERBEN/
- 2.4% ASCLEP
- 2.0% JUNCUS 2.0% ZIZIA AL
- 1.6% ASTER
- 1.3% CAREX
- 1.0% BIDENS 1.0% JUNCUS
- 0.8% SOLIDAG
- 0.6% VERBEN/
- 0.5% CAREX
- 0.5% EUPATO
- 0.5% HELENIU 0.5% MIMULU
- 0.3% LOBELIA
- 0.3% SCIRPUS
- 0.2% ALISMA
- 0.2% ASTER
- 0.2% ASTER
- 0.1% PENTHOR
- 2. APPLIED AT A
- 3. COVER CROP BASED ON SEA

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

V/SWITCHGRASS (ERNMX-102-1) ON
/ VIRGATUM, 'SHAWNEE' (SWITCHGRASS, 'SHAWNEE') A RUBRA (CREEPING RED FESCUE)
MULTIFLORUM (ANNUAL RYEGRASS) PRATENSE, CLIMAX (TIMOTHY, CLIMAX)
A HYBRIDUM (ALSIKE CLOVER) ALBA (REDTOP)
RATE OF 40 LBS/ACRE.
D: ON
A WILD RYE (ELYMUS VIRGINICUS VAR. VIRGINICUS)
A WILD RYE (ELYMUS CANADENSIS) N BENTGRASS (AGROSTIS PERENNANS)
R LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM)
RATE OF 40 LBS/ACRE.
AND MIX FOR SHADED OBL-FACW AREAS (ERNMX-137) ON
X VULPINOIDEA, PA ECOTYPE (FOX SEDGE, PA ECOTYPE)
US VIRGINICUS, MADISON-NY ECOTYPE (VIRGINIA WILDRYE, MADISON-NY ECOTYPE)
X SCOPARIA, PA ECOTYPE (BLUNT BROOM SEDGE, PA ECOTYPE) X LURIDA, PA ECOTYPE (LURID SEDGE, PA ECOTYPE)
( LUPULINA, PA ECOTYPE (HOP SEDGE, PA ECOTYPE)
NA HASTATA, PA ECOTYPE (BLUE VERVAIN, PA ECOTYPE)
PSIS HELIANTHOIDES, PA ECOTYPE (OXEYE SUNFLOWER, PA ECOTYPE) INTUMESCENS, PA ECOTYPE (STAR SEDGE, PA ECOTYPE)
ANIUM AMERICANUM (EASTERN BUR REED)
ERSICOLOR (BLUEFLAG)
S CERNUA, PA ECOTYPE (NODDING BUR MARIGOLD, PA ECOTYPE) ( CRINITA, PA ECOTYPE (FRINGED SEDGE, PA ECOTYPE)
STIPATA, PA ECOTYPE (AWL SEDGE, PA ECOTYPE)
ORIUM PERFOLIATUM, PA ECOTYPE (BONESET, PA ECOTYPE) JS CYPERINUS, PA ECOTYPE (WOOLGRASS, PA ECOTYPE)
NIA NOVEBORACENSIS, PA ECOTYPE (NEW YORK IRONWEED, PA ECOTYPE)
IA SIPHILITICA, PA ECOTYPE (GREAT BLUE LOBELIA, PA ECOTYPE)
IORUM SEDOIDES, PA ECOTYPE (DITCH STONECROP, PA ECOTYPE) RATE OF APPROXIMATELY 20 LBS/ACRE, ALONG WITH THE COVER CROP.
SHOULD BE APPLIED AT A RATE OF 60-80 LBS/ACRE. COVER CROP TO BE AN ANNUAL RYE. COVER CROP
SON OF RESTORATION AN ANNUAL RYE THROUGH SPRING AND SUMMER AND WINTER RYE FOR LATE FALL.
ON
VULPINOIDEA, PA ECOTYPE (FOX SEDGE, PA ECOTYPE) S VIRGINICUS, PA ECOTYPE (VIRGINIA WILDRYE, PA ECOTYPE)
LURIDA, PA ECOTYPE (LURID SEDGE, PA ECOTYPE)
LUPULINA, PA ECOTYPE (HOP SEDGE, PA ECOTYPE)
SCOPARIA, PA ECOTYPE (BLUNT BROOM SEDGE, PA ECOTYPE) A HASTATA, PA ECOTYPE (BLUE VERVAIN, PA ECOTYPE)
IAS INCARNATA, PA ECOTYPE (SWAMP MILKWEED, PA ECOTYPE)
EFFUSUS (SOFT RUSH)
UREA, PA ECOTYPE (GOLDEN ALEXANDERS, PA ECOTYPE) NOVAE-ANGLIAE, PA ECOTYPE (NEW ENGLAND ASTER, PA ECOTYPE)
STIPATA, PA ECOTYPE (AWL SEDGE, PA ECOTYPE)
CERNUA, PA ECOTYPE (NODDING BUR MARIGOLD, PA ECOTYPE) TENUIS, PA ECOTYPE (PATH RUSH, PA ECOTYPE)
GO RUGOSA, PA ECOTYPE (WRINKLELEAF GOLDENROD, PA ECOTYPE)
A URTICIFOLIA, PA ECOTYPE (WHITE VERVAIN, PA ECOTYPE)
CRINITA, PA ECOTYPE (FRINGED SEDGE, PA ECOTYPE) RIUM PERFOLIATUM, PA ECOTYPE (BONESET, PA ECOTYPE)
IM AUTUMNALE, PA ECOTYPE (COMMON SNEEZEWEED, PA ECOTYPE)
S RINGENS, PA ECOTYPE (SQUARE STEMMED MONKEYFLOWER, PA ECOTYPE)
S CYPERINUS, PA ECOTYPE (WOOLGRASS, PA ECOTYPE)
SUBCORDATUM, PA ECOTYPE (MUD PLANTAIN, PA ECOTYPE)
PUNICEUS, PA ECOTYPE (PURPLESTEM ASTER, PA ECOTYPE) UMBELLATUS, PA ECOTYPE (FLAT TOPPED WHITE ASTER, PA ECOTYPE)
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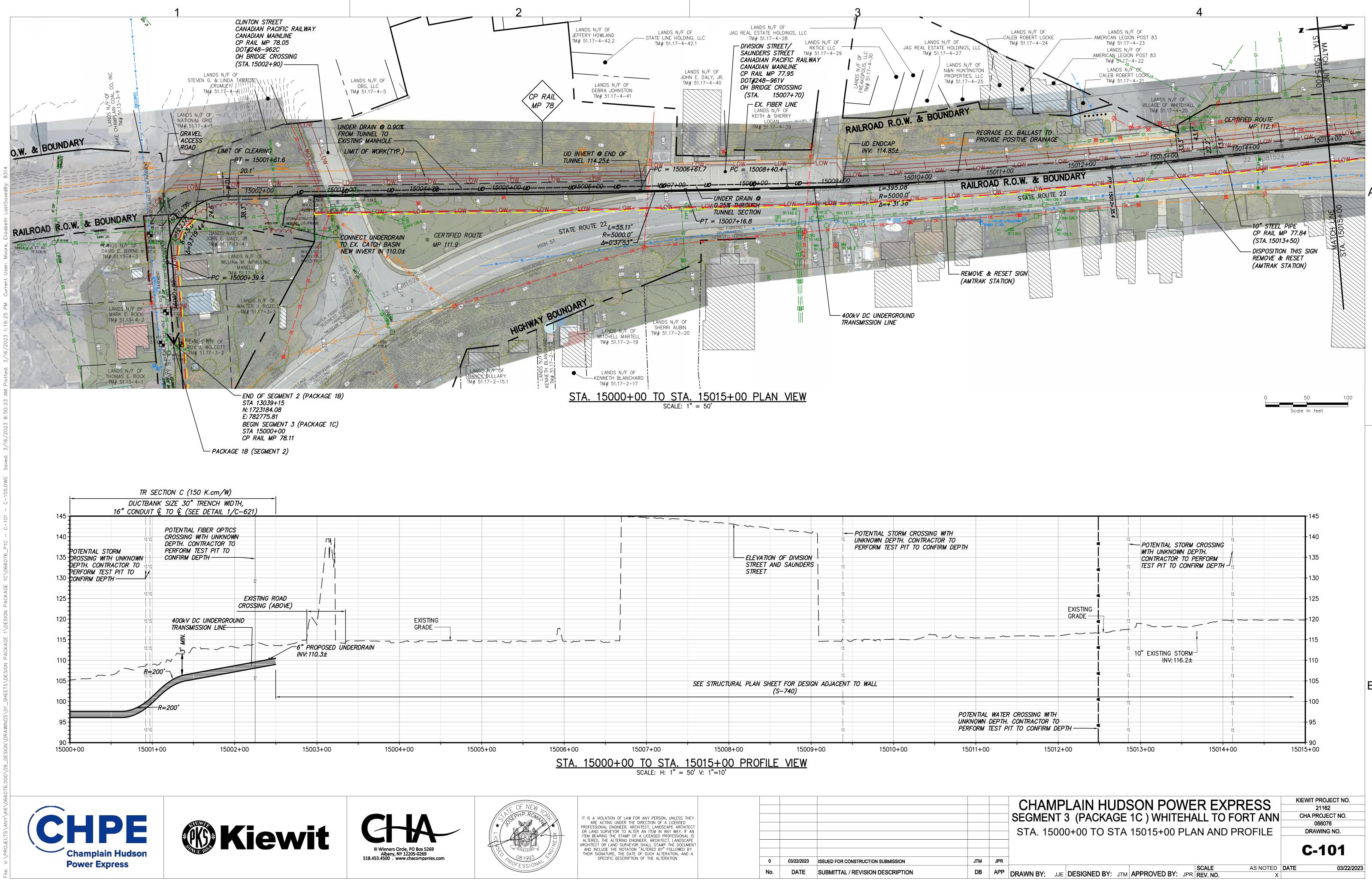
# CHAMPLAIN HUDSON POWER EXPRESS GMENT 3 (PACKAGE 1C ) WHITEHALL TO FORT ANN **RESTORATION NOTES**

**KIEWIT PROJECT NO.** 21162 CHA PROJECT NO. 066076 DRAWING NO.

**G-020** 

03/22/2023

SCALE WN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR REV. NO. AS NOTED DATE

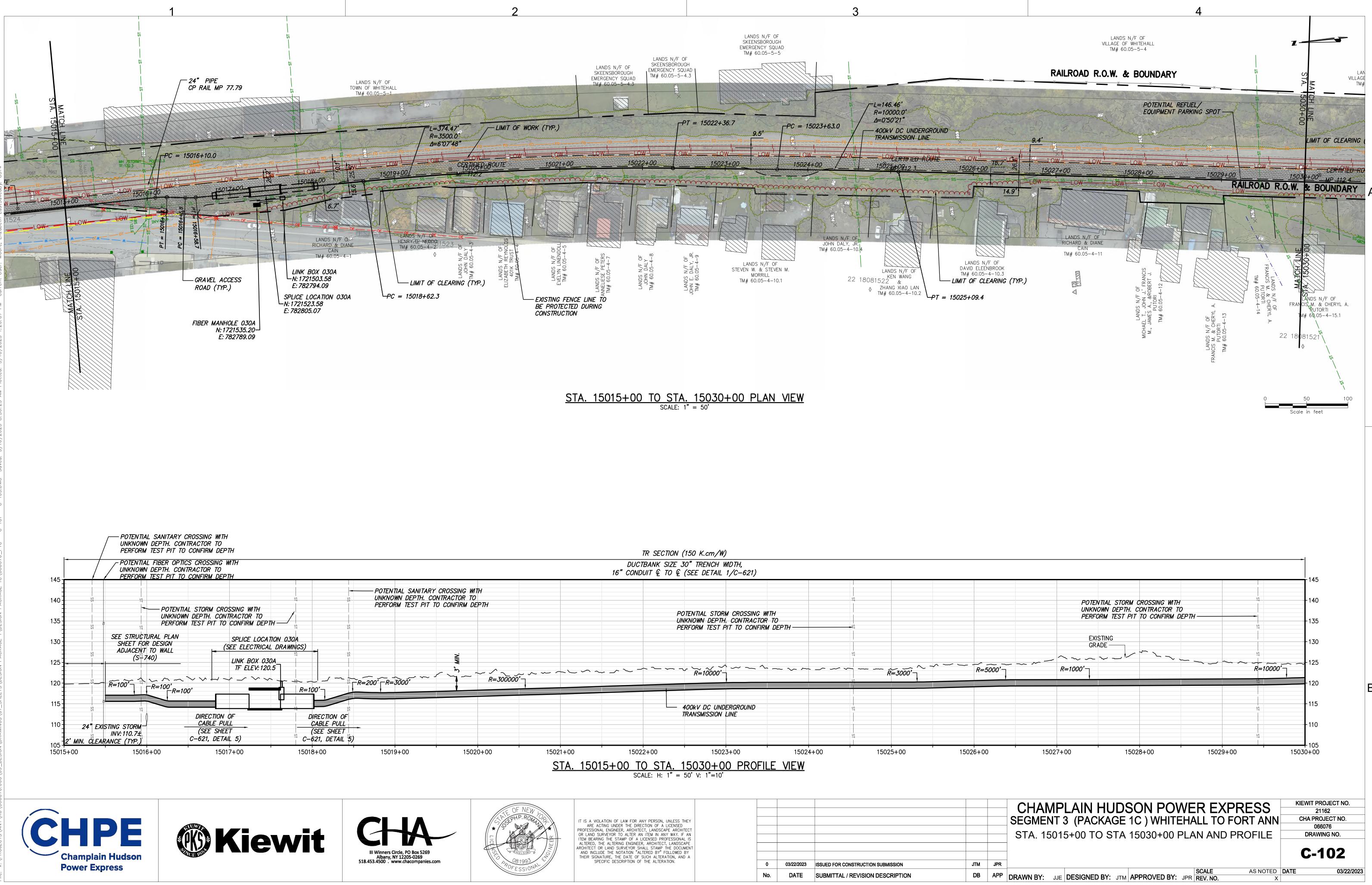


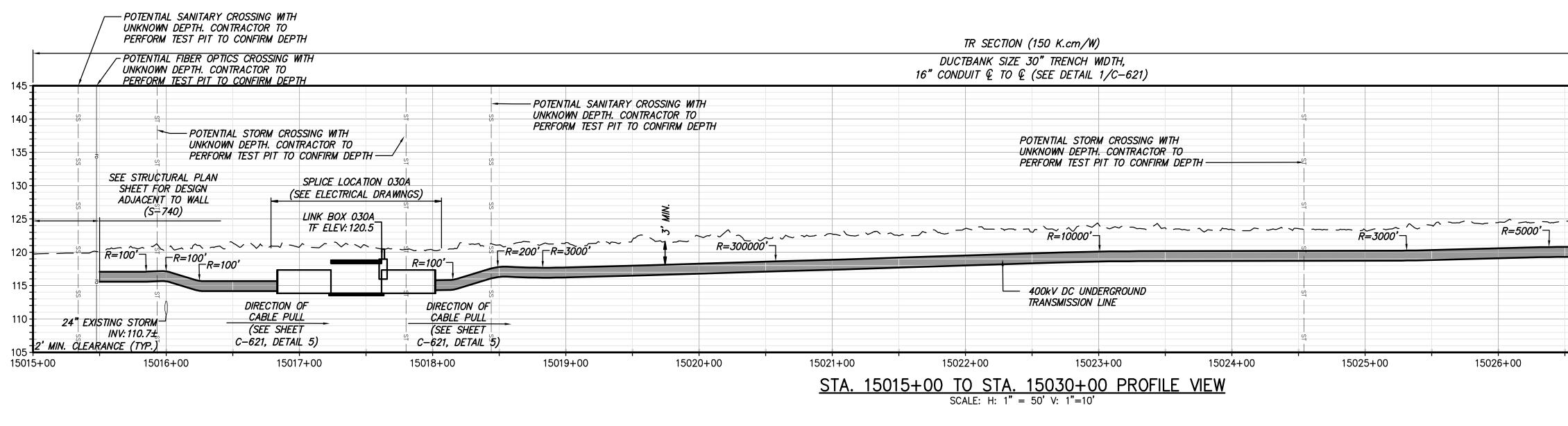




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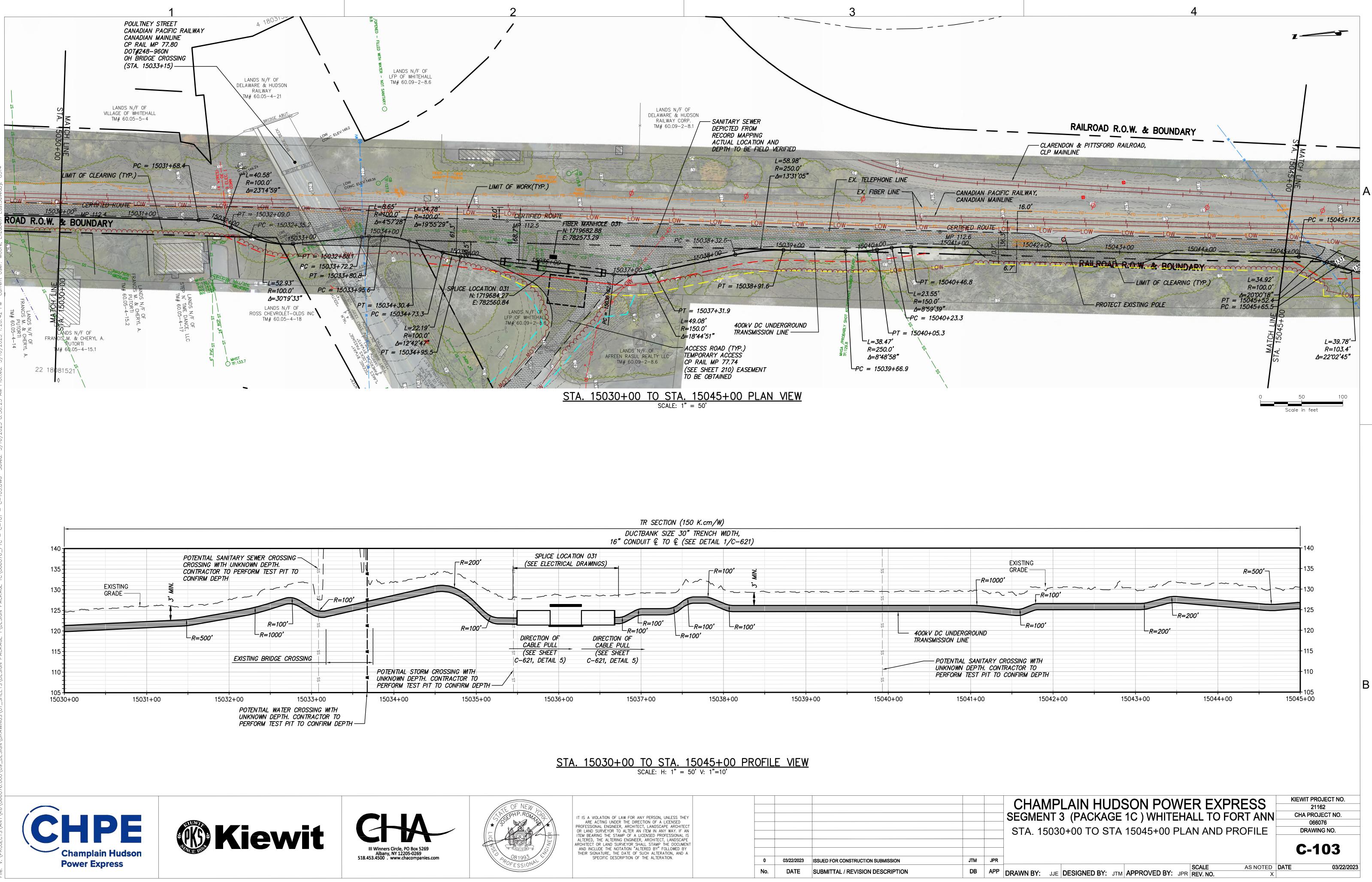


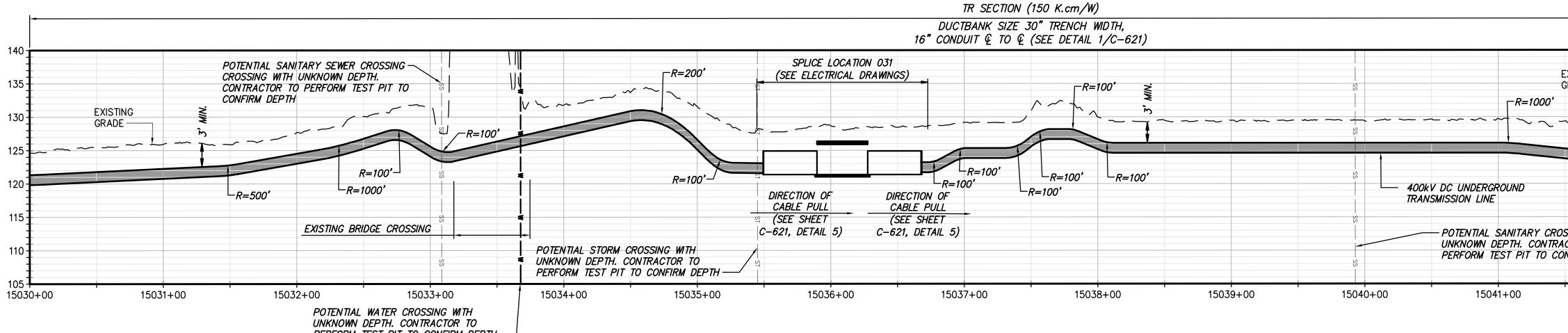


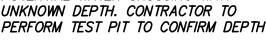




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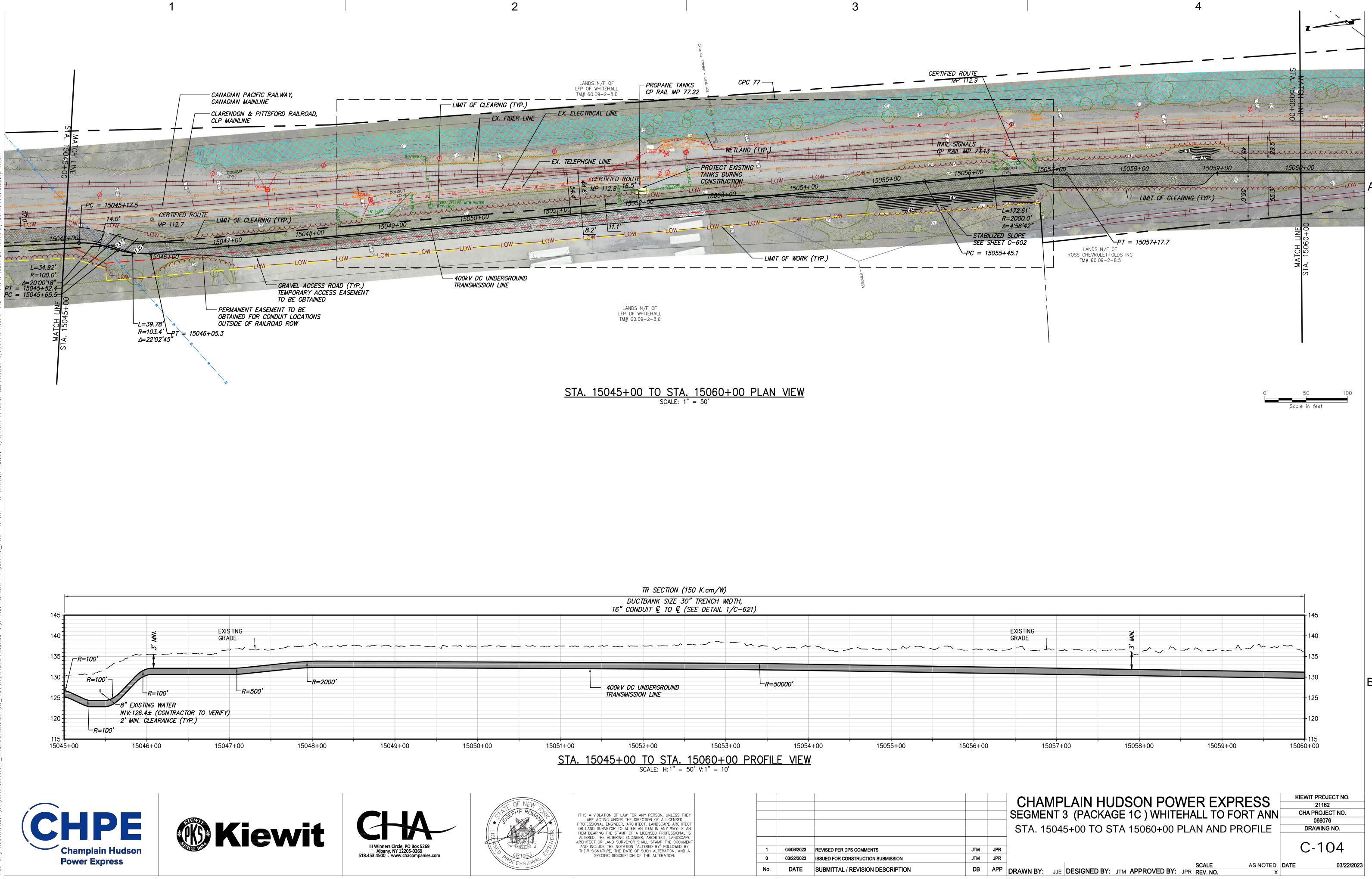








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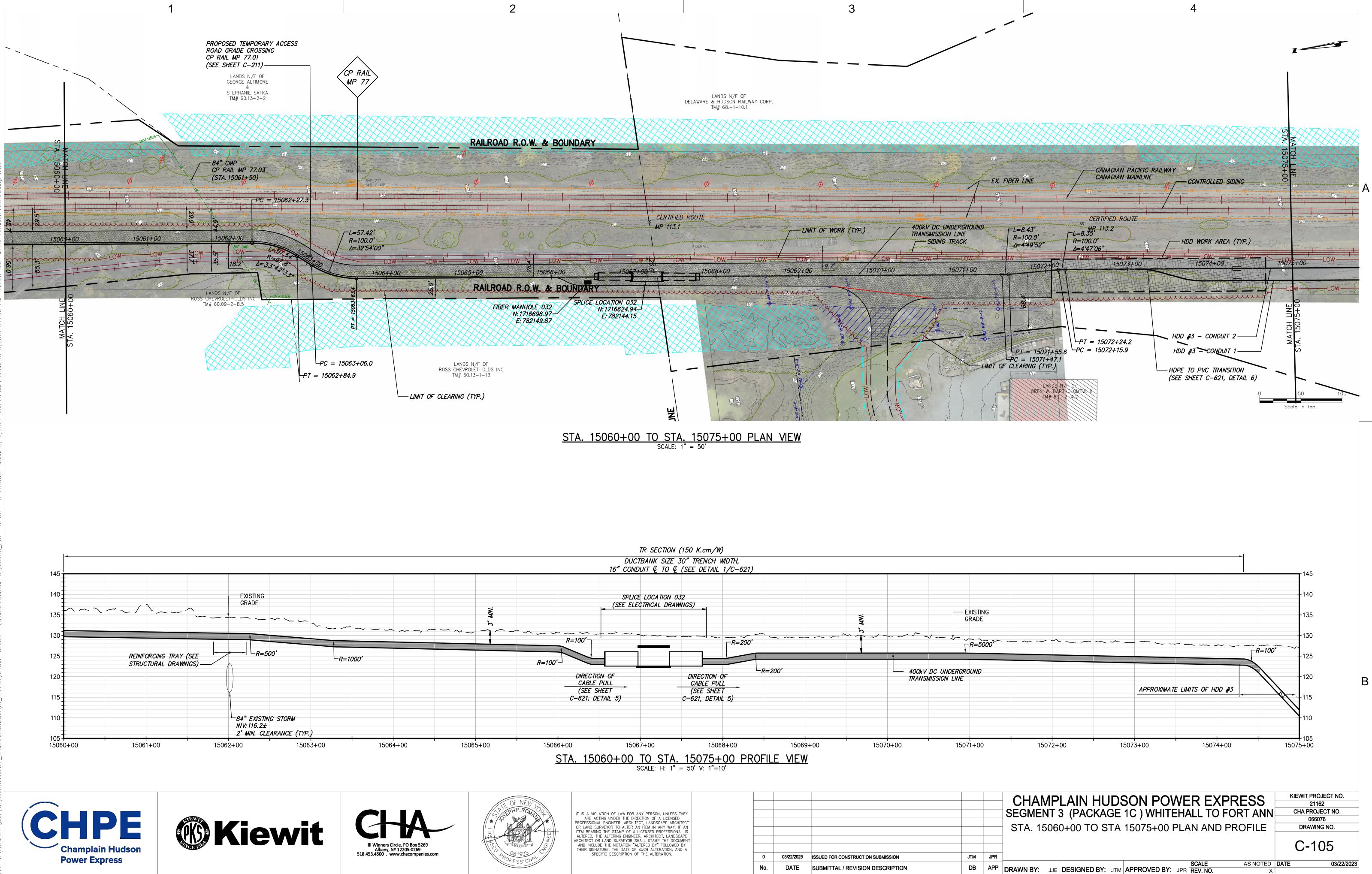








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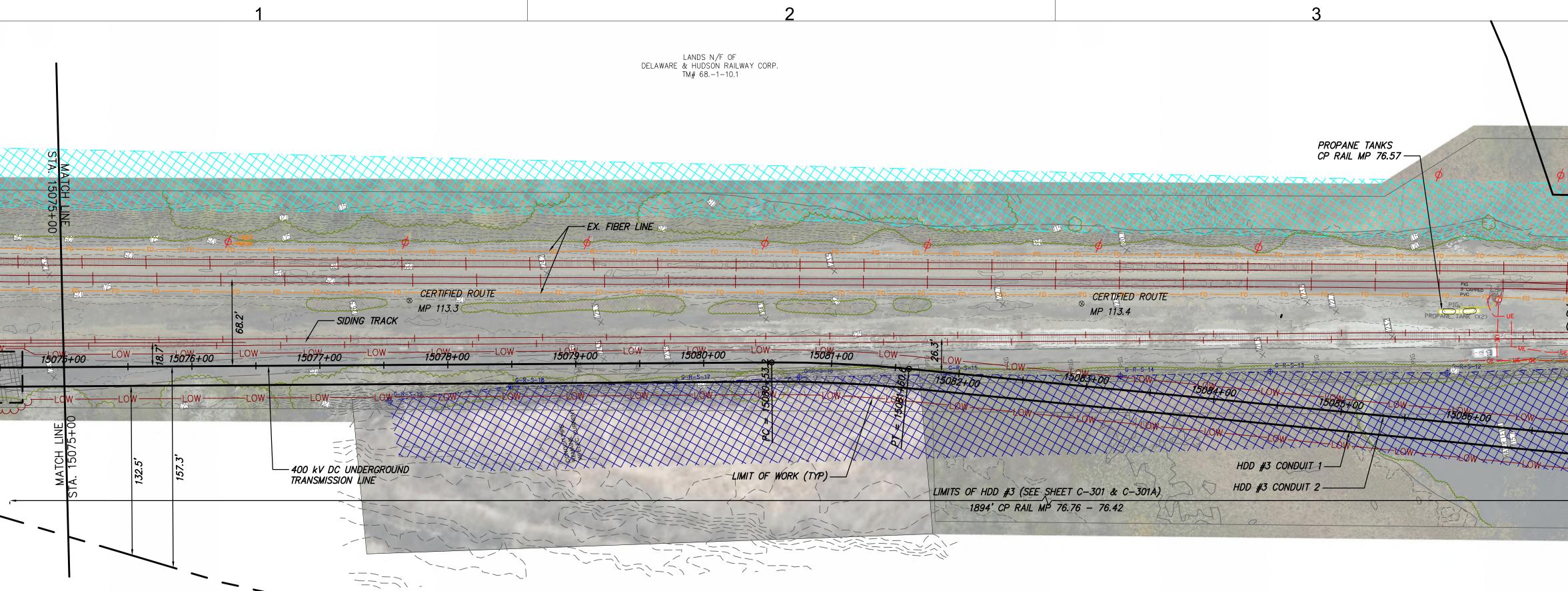


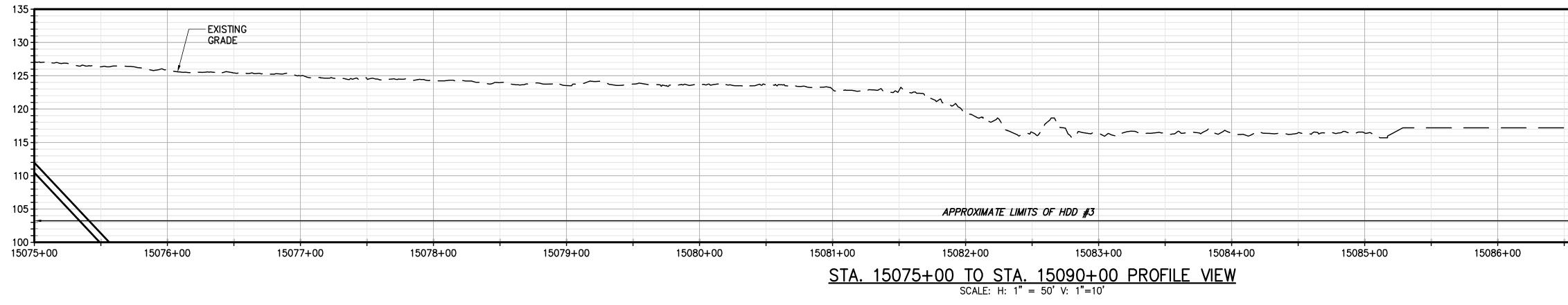






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