

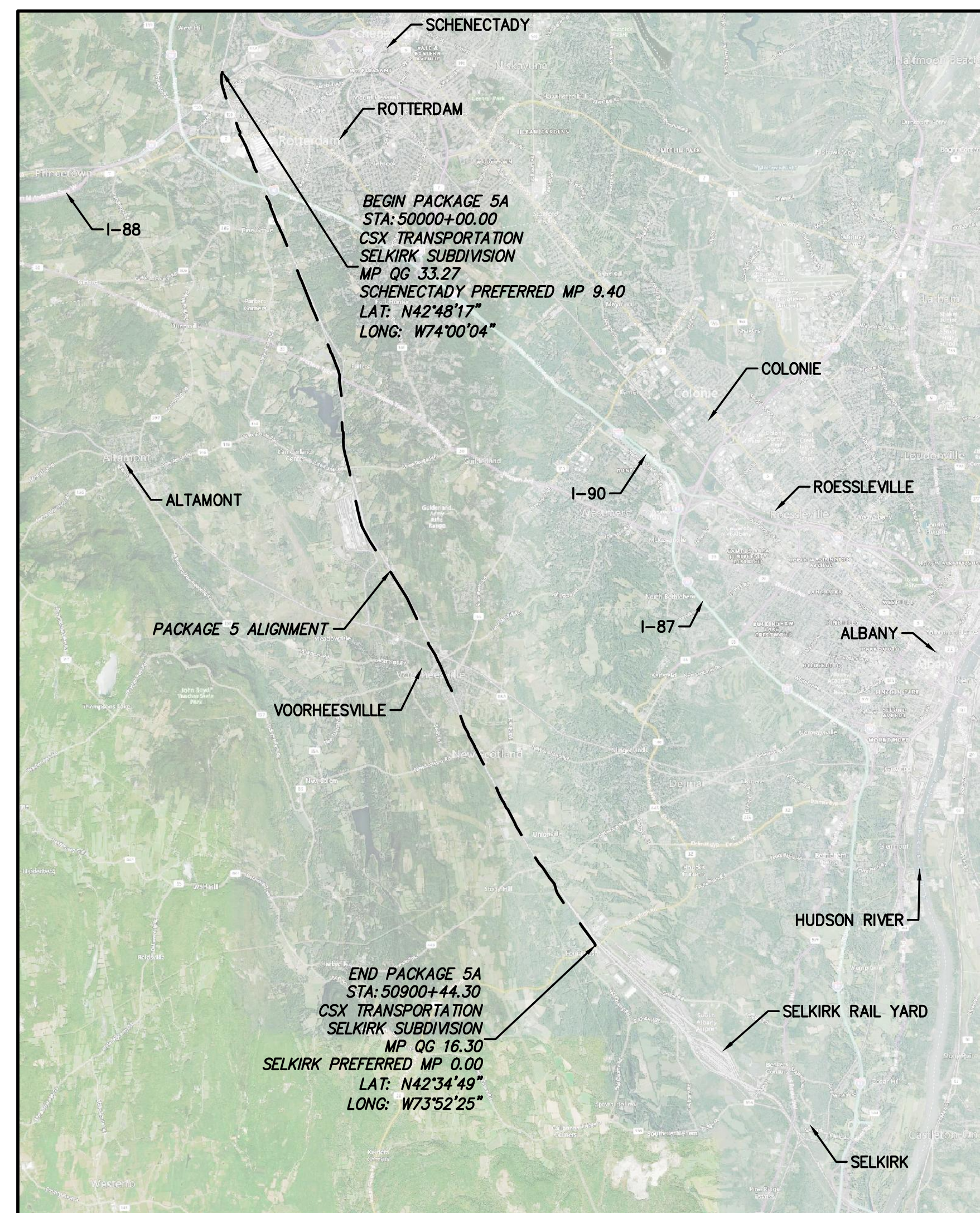
**APPENDIX C:
PLAN & PROFILE DRAWINGS, EROSION
AND SEDIMENT CONTROL PLANS, AND
MAINTENANCE AND PROTECTION OF
TRAFFIC PLANS
CASE 10-T-0139**

CHAMPLAIN HUDSON POWER EXPRESS

SEGMENT 8 (PACKAGE 5A) CSX: ROTTERDAM TO BETHLEHEM

SCHENECTADY & ALBANY COUNTY, NEW YORK

FINAL SUBMISSION PLANS



SITE LOCATION MAP
SCALE: 1" = 10000'



FOR EMCP REVIEW
NOT FOR CONSTRUCTION

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

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
E	12/16/2022	FINAL SUBMISSION	BV	TK
D	11/11/2022	DRAFT FINAL SUBMISSION	BV	TK
C	06/06/2022	60% DESIGN SUBMISSION	BV	TK
B	02/11/2022	PRELIMINARY DESIGN DEVELOPMENT	BV	TK
A	01/24/2022	PRELIMINARY PROGRESS	BV	TK

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

KIEWIT PROJECT NO.	21162
DRAWING NO.	G-000
DATE	12/16/2022
SH.NO.	OF

DRAWN BY:	AR	DESIGNED BY:	BV	APPROVED BY:	TK	SCALE	AS SHOWN	DATE	12/16/2022
						REV. NO.	E	SH.NO.	OF

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GENERAL NOTES:

1.

THE PLANS SHOW SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES FROM FIELD LOCATION AND RECORD MAPPING. EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE DIFFERENT FROM THAT SHOWN OR MAY NOT BE SHOWN, AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL, OR BLAST, CALL U.F.P.O. 1-(800)-962-7962 TOLL FREE.
2.

THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER. CHANGES TO THE PLAN SHALL BE DONE IN ACCORDANCE WITH THE EM&CP SECTION 3.2.6.
3.

THE CONTRACTOR SHALL RESTORE LAWNS, DRIVEWAYS, CULVERTS, SIGNS AND OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD A CONDITION AS BEFORE BEING DISTURBED AS DETERMINED BY THE ENGINEER.
4.

THE CONTRACTOR AND/OR CERTIFICATE HOLDER SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING THE COST OF ALL CONSTRUCTION PERMITS, INSPECTIONS, CERTIFICATES, ETC. AND SHALL COMPLY WITH ALL REQUIRED PERMITS.
5.

ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES, AND REGULATIONS.
6.

ALL PROPOSED UTILITIES AND APPURTENANCES TO BE CONSTRUCTED IN COMPLIANCE WITH THE LOCAL MUNICIPALITIES' CODES AND REGULATIONS GOVERNING THE INSTALLATION OF SUCH UTILITIES.
7.

THE ENGINEER RESERVES THE RIGHT TO EXAMINE ANY WORK DONE ON THIS PROJECT AT ANY TIME TO DETERMINE THE CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OF THIS PROJECT.
8.

THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.
9.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS.
10.

THE CONTRACTOR SHALL:

A.

VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

B.

EXAMINE THE SITE AND INCLUDE IN HIS WORK THE EFFECT OF ALL EXISTING CONDITIONS ON THE WORK.

C.

PROVIDE AND INSTALL ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH RECOGNIZED GOOD STANDARD PRACTICE.
11.

ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISIONS OF NEW YORK STATE INDUSTRIAL CODE RULE 23 AND OSHA REGULATIONS FOR CONSTRUCTION. SHEET PILING SHALL BE DESIGNED AND SEALED BY A NEW YORK STATE PROFESSIONAL ENGINEER, WHERE WITHIN RAIL ROAD ROW, ANY EXCAVATION AND SHORING SHALL BE DESIGNED TO MINIMUM CSX AND AREMA REQUIREMENTS.
12.

CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK IN CONFORMANCE WITH REFERENCE SECTION 4.4.6 DEWATERING METHODS IN THE EM&CP. CONTRACTOR SHALL MAINTAIN EXISTING SITE DRAINAGE PATTERNS THROUGHOUT CONSTRUCTION UNLESS OTHERWISE SHOWN ON THE PLANS.
13.

MAINTAIN FLOW FOR ALL EXISTING UTILITIES.
14.

ALL FRAMES/COVERS WITHIN PAVED AREAS SHALL HAVE THE TOPS SET FLUSH WITH THE EXISTING PAVEMENT GRADE. IN LANDSCAPED AREAS, ALL FRAMES SHALL BE 0.1' ABOVE GRADE.
15.

TEMPORARY PAVEMENT SHALL BE PLACED WITHIN 48 HOURS OF COMPLETION OF BACKFILL OPERATIONS WITHIN THE EXISTING PAVEMENT LIMITS.
16.

CONTRACTOR SHALL MAINTAIN ALL TRAFFIC IN ALL AREAS IN ACCORDANCE WITH THE NYSDOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
17.

ALL EXCAVATIONS SHALL BE PROTECTED AT THE END OF EACH WORK DAY PER OSHA AND NYSDOT REQUIREMENTS.
18.

WITHIN NYSDOT ROW ALL OPEN EXCAVATIONS TO BE PROTECTED BY CONCRETE BARRIERS OR BE COVERED BY A STEEL PLATE, 3/4" THICK MINIMUM. A SINGLE PLATE SHOULD COVER THE ENTIRE EXCAVATION AND HAVE ENOUGH BEARING ON SURROUNDING SURFACES TO SUPPORT A VEHICLE.
19.

CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO EXISTING UTILITIES. UTILITIES DAMAGED BY CONTRACTOR SHALL BE IMMEDIATELY REPAIRED BY CONTRACTOR AT THE CONTRACTOR'S EXPENSE. IF DURING EXCAVATION PREVIOUSLY DAMAGED UTILITIES ARE UNCOVERED, CONTRACTOR SHALL DOCUMENT THE DAMAGE AND REPORT DAMAGE TO THE APPROPRIATE OWNER.
20.

DEPTH OF BURY FOR EXISTING CABLED UTILITIES FIBER / ELECTRICAL / TELECOM AND WATERLINES UNKNOWN. ASSUMED DEPTH OF BURY FOR CABLED UTILITIES IS 30" UNLESS OTHERWISE SHOWN. ASSUMED DEPTH OF BURY FOR WATERLINES IS 5' UNLESS OTHERWISE SHOWN.
21.

CONTRACTOR TO COORDINATE ALL DRIVEWAY CROSSINGS WITH THE PROPERTY OWNERS PRIOR TO EXCAVATING. ACCESS TO ALL DRIVEWAYS FOR THE RESIDENTS AND COMMERCIAL PROSPERITIES, WILL NEED TO BE MAINTAINED DURING THE PROJECT. ALL EXCAVATIONS IN THE ENTRANCES/DRIVEWAYS WILL NEED TO BE BACKFILLED AT THE END OF EACH WORKDAY, OR STEEL PLATES SHALL BE INSTALLED TO ALLOW ACCESS DURING CONSTRUCTION. REFER TO THE EM&CP FOR EMERGENCY ACCESS MANAGEMENT PLAN.
22.

ALL WORK WITHIN AGRICULTURAL LANDS WILL BE PERFORMED IN COMPLIANCE WITH APPLICABLE NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS (NYSDAM) GUIDANCE INCLUDING "NYSDAM GUIDELINES FOR CONSTRUCTION MITIGATIONS FOR AGRICULTURAL LANDS IN AGRICULTURAL AREAS". RESTORATION WORK WILL FOLLOW APPLICABLE SECTIONS OF NYSDAM GUIDANCE "FERTILIZING LIME, AND SEEDING RECOMMENDATIONS FOR RESTORATION OF CONSTRUCTION PROJECTS ON FARMLAND IN NYS".
23.

SERVICE CONNECTIONS TO BE FIELD LOCATED PRIOR TO CONSTRUCTION.

EROSION CONTROL NOTES

1.

SEE C-400 SERIES OF SHEETS FOR EROSION AND SEDIMENT CONTROL SHEETS.
2.

LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES.
3.

THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND 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"
7.

INACTIVE PORTIONS OF THE SITE ARE TO BE SEEDED AND MULCHED AS SPECIFIED WITHIN 14 DAYS. "FOR DISTURBED WETLAND AND SENSITIVE AREAS, AREA TO BE RESTORED IN ACCORDANCE WITH THE EM&CP"
8.

SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) DAYS OR MORE FREQUENTLY IF REQUIRED. ALL MAINTENANCE REQUIRED BY INSPECTION SHALL COMMENCE WITHIN 24 HOURS AND BE COMPLETED WITHIN 48 HOURS OF REPORT.
9.

THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
10.

GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
11.

ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY FOLLOWING SITE INSPECTION. THE SWPPP AND/OR ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES IF THE INSPECTOR DEEMS NECESSARY.
12.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
13.

AT THE END OF EACH WORK DAY DISTURBED SOILS ARE TO BE REGRADED TO DRAIN INTO THE TEMPORARY DIVERSION SWALES AND DISCHARGES FROM DEWATERING ACTIVITIES ARE TO BE DIRECTED INTO CATCH BASINS OR SWALES.
14.

CONCRETE WASHOUTS DEPICTED ON PLANS ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD LOCATE WASHOUTS AS NECESSARY. FIELD LOCATED WASHOUTS SHALL BE LOCATED CONSTRUCTED IN ACCORDANCE WITH THE EM&CP AND SHALL BE A MINIMUM OF 100' FROM ADJACENT WETLANDS AND 200' FROM ANY EXISTING WELLS.

HDD PLAN & PROFILE NOTES

1.

ALL BURIED LINE DEPTHS ARE APPROXIMATE PRIOR TO ANY EXCAVATION OR EXPLORATORY BORING, CONTRACTOR MUST CONTACT 811 AND ABIDE BY ALL STATE EXCAVATION REQUIREMENTS.
2.

THE MINIMUM SEPARATION DISTANCE FROM EXISTING SUBSURFACE UTILITIES SHALL NOT BE LESS THAN 120 INCHES AS MEASURED FROM THE OUTSIDE EDGE OF THE UTILITY TO THE OUTSIDE OF THE PROPOSED HDD.
3.

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

CIVIL NOTES

1.

WORKING IN WETLANDS: IN GENERAL, STOCKPILING SOILS AND GRADING SOILS FOR ANY ROADS, WORK AREAS, OR PADS IS PROHIBITED WITHIN WETLAND AREAS. TIMBER MATTING SHALL BE LAYERED (STACKED) TO ACHIEVE REQUIRED ELEVATIONS. THE CONTOURS SHOWN WITHIN WETLAND AREAS IN THESE PLANS ARE INTENDED TO DEPICT THE ELEVATION DIFFERENCE BETWEEN EXISTING AND PROPOSED ELEVATIONS ONLY AND ARE NOT INTENDED TO REPRESENT GRADING SOILS OR EARTHWORK ACTIVITIES. FOR SPECIFIC REQUIREMENTS FOR WORKING IN WETLAND AREAS INCLUDING REQUIREMENTS FOR EXCAVATION AND STOCKPILING, REFER TO EM&CP SECTION 4.10.2.
2.

THE CIVIL ENGINEER OF RECORD (EOR) LICENSED PROFESSIONAL ENGINEER SEAL AND SIGNATURE ON THE PLAN AND PROFILE KEY MAP SHEET, SPLICE LOCATION TABLE SHEET, PLAN AND PROFILE SHEETS, TEMP OFF-SITE ACCESS ROADS SHEETS, TEMP OFF-SITE ACCESS ROUTES SHEETS, LAYDOWN YARDS SHEET, AND TYPICAL SECTIONS SHEETS IS LIMITED TO THE SCOPE OF DESIGN AS OUTLINED BELOW:

A.

THE CIVIL EOR DESIGN SCOPE INCLUDES THE FOLLOWING:

a.

HORIZONTAL AND VERTICAL GEOMETRY OF THE TRENCH AND CONDUITS

b.

GEOMETRIC DESIGN OF TEMPORARY ROADS AND WORK AREAS

1.

THESE PLANS DEPICT THE GENERAL LAYOUT AND GRADING EXTENTS OF THE ROADS AND WORK AREAS. GEOMETRIC INFORMATION FOR TEMPORARY ROADS IS NOT SHOWN IN THESE PLANS AND WILL BE AVAILABLE UPON REQUEST IN EXCEL OR CIVIL 3D 2020 DIGITAL FORMAT.

B.

THE ELECTRICAL EOR IS RESPONSIBLE FOR THE FOLLOWING DESIGN SCOPE:

a.

DESIGN ASSOCIATED WITH THE ELECTRICAL TRANSMISSION LINE AND APPURTENANCES INCLUDING BUT NOT LIMITED TO PUBLIC SAFETY CONSIDERATIONS; MATERIAL SELECTION; INSTALLATION; AND INTERFERENCE, THERMAL, AND STRAY CURRENT EFFECTS.

b.

DESIGN OF THE TRENCH FOR THE CONDUIT, HVDC (HIGH VOLTAGE DIRECT CURRENT) CABLE, AND FIBER OPTIC CABLE INSTALLATION

c.

MATERIAL SELECTION AND SIZING OF THE CONDUITS AND HVDC CABLE

d.

CABLE INSTALLATION (PULLING) CALCULATIONS FOR INSTALLATION OF CABLES INCLUDING CABLE PULLING DIRECTION

C.

THE HDD (HORIZONTAL DIRECTION DRILLING) EOR IS RESPONSIBLE FOR THE FOLLOWING DESIGN SCOPE:

a.

HDD HORIZONTAL AND VERTICAL GEOMETRY

b.

HDD PLAN AND PROFILE SHEETS

c.

DESIGN OF THE WORK AREAS AND PITS FOR HDD INSTALLATION

D.

THE CIVIL EOR DESIGN SCOPE EXCLUDES HYDROLOGIC OR HYDRAULIC DRAINAGE ANALYSIS OR DESIGN INCLUDING STREAM AND DITCH CROSSINGS.

3.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT SAFETY MEASURES AND/OR AN OPERATIONAL SAFETY PLAN DURING CONSTRUCTION TO PROTECT PERSONNEL AND VEHICLES FROM STEEP SLOPES OR HAZARDS ADJACENT TO ROADS AND WORK AREAS. THIS DESIGN PROVIDES TEMPORARY ACCESS AND WORK AREAS FOR CONSTRUCTION OPERATIONS FOR LOW-SPEED CONSTRUCTION TRAFFIC WITHIN A SITE THAT IS RESTRICTED FROM PUBLIC ACCESS.

A.

THESE PLANS DO NOT INCLUDE COMPREHENSIVE ROADSIDE SAFETY MEASURES OR HARDWARE, INCLUDING BUT NOT LIMITED TO: BARRIERS, GUARDRAIL, SIGNING, GATES, DELINEATORS, AND SAFETY BERMS.

B.

ACCESS ROADS ARE DESIGNED FOR A DESIGN SPEED OF 15 MPH FOR CRUSHED ROCK SURFACING (GRAVEL/AGGREGATE SURFACING). IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE VEHICLES ARE ADEQUATELY EQUIPPED FOR ROAD CONDITIONS, AND ROADS ARE ADEQUATELY MAINTAINED FOR SAFETY.

C.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE STABILITY OF AND/OR SETBACKS FROM STEEP SLOPES, SHORING, AND WALLS ADJACENT TO VEHICULAR TRAFFIC OR NEAR PLACEMENT OF CONSTRUCTION EQUIPMENT (OR MATERIALS) AS DETERMINED BY A GEOTECHNICAL ENGINEER.

4.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY EXISTING STRUCTURES ARE ADEQUATE TO SAFELY SUPPORT VEHICLES AND CONSTRUCTION EQUIPMENT (OR MATERIALS) AS DETERMINED BY A STRUCTURAL AND/OR GEOTECHNICAL ENGINEER.
- DISTURBANCE NOTE:
1.

THE PROPOSED DISTURBANCE FOR THE TRENCH DETAIL WILL BE LIMITED TO THE WIDTH OF THE TRENCH SECTIONS DEPICTED ON C-621.

2.

AREAS OF THE LIMIT OF WORK ACROSS THE ALIGNMENT HAVE BEEN EXPANDED TO INCLUDE AREAS OFF THE ROADWAY WITHIN LAWN AREAS THAT ARE SUITABLE FOR POTENTIAL TEMPORARY STAGING AREAS DURING CONSTRUCTION. SHOULD THESE AREAS BE UTILIZED AND DISTURBED THE AREAS SHOULD BE RESTORED TO EXISTING CONDITION PER THE PROJECT RESTORATION NOTES AND DETAILS. EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN DEVELOPED TO INCORPORATE THESE POTENTIALLY DISTURBED AREAS.
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- CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM
GENERAL NOTES 1 OF 2
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| E | 12/16/2022 | FINAL SUBMISSION | BV | TK | |
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CLEANUP AND RESTORATION NOTES

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

CLEANUP STANDARDS AND PRACTICES

FROM THE BMPS', CLEAN-UP, RESTORATION, AND REVEGETATION PROCEDURES WILL BE ONGOING DURING CONSTRUCTION AS EACH SEGMENT IS COMPLETED. DURING CONSTRUCTION, ROAD AND CONSTRUCTION ROWS WILL BE KEPT FREE OF DEBRIS AND DISCARDED MATERIAL TO THE GREATEST EXTENT POSSIBLE. AS CONSTRUCTION CONTINUES, EACH SECTION OF THE ROWS WILL BE THOROUGHLY CLEANED AFTER CONSTRUCTION IS COMPLETED ON THAT PARTICULAR SECTION. 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 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. TRENCHES WILL BE BACKFILLED IN ACCORDANCE WITH THE MEASURES OUTLINED IN SECTION 4.4.7 OF THE EM&CP. THE CERTIFICATE HOLDER WILL BE RESPONSIBLE FOR WILL CHECKING ALL CULVERTS AND ASSURE THAT THEY ARE NOT CRUSHED OR BLOCKED DURING CONSTRUCTION AND RESTORATION OF THIS SEGMENT AND, IF A CULVERT IS BLOCKED OR CRUSHED, TAKE IMMEDIATE STEPS TO REPLACE OR REPAIR THE CULVERT IN ACCORDANCE WITH APPLICABLE STATE OR LOCAL STANDARDS.

SEEDING AND PLANTING

SEEDING OPERATIONS ACROSS THE 35-FOOT-WIDE CONSTRUCTION AND FACILITY ROWS 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. THE LOCAL SOIL AND WATER CONSERVATION DISTRICT AND THE LANDOWNER/OPERATOR WILL BE CONSULTED REGARDING APPROPRIATE SEED MIXTURES AND APPLICATION RATES. ALL SEED MIXES WILL BE FREE OF INVASIVE SPECIES. ALL SEED BAG TAGS (EITHER ORIGINAL OR SCANNED COPIES) WILL BE PROVIDED TO THE ENVIRONMENTAL INSPECTOR EITHER ORIGINAL TAGS OR SCANNED COPIES. 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 (SHEET G-020 OF BOTH SEGMENT 1 AND SEGMENT 2) 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 DESCRIBE IN SECTION 4.10 OF THE EM&CP. ALL TRENCH AREAS AND OTHER EXCAVATED AREAS WILL BE RESEDED 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.

MINIMAL TREE CLEARING IS ANTICIPATED TO BE REQUIRED IN THIS SEGMENT (SEE SECTION 8.0 OF THE EM&CP); IF REQUIRED, ALL TREES OVER TWO (2) INCHES IN DBH OR SHRUBS OVER FOUR (4) FEET IN HEIGHT THAT ARE DAMAGED OR DESTROYED BY ACTIVITIES DURING CONSTRUCTION, OPERATION, OR MAINTENANCE WITHIN ASSOCIATED URBAN, RESIDENTIAL OR ADIRONDACK PARK LANDSCAPED AREAS, WILL BE REPLACED WITHIN THE FOLLOWING YEAR BY THE CERTIFICATE HOLDERS WITH THE EQUIVALENT TYPE OF TREES OR SHRUBS EXCEPT IF:

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

RESTORATION OF WATERBODIES

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, THE PROCEDURES FOR THE CLEANUP AND RESTORATION OF STREAMS AND WATERBODIES ARE SUMMARIZED IN SECTION 9.1 OF THE EM&CP

RESTORATION OF WETLANDS

THESE AREAS WILL BE RESTORED 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.

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

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

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

PLANT INSPECTION, GUARANTEE AND MAINTENANCE

VEGETATION RESTORATION ALSO INCLUDES THE MAINTENANCE OF PLANTINGS FOR SPECIFIED TIME PERIODS AND THE REPLACEMENT OF UNSUCCESSFUL PLANTINGS. PRIOR TO PLANTING, THE ENVIRONMENTAL INSPECTOR WILL INSPECT ALL PLANTS IN CONTAINERS. PLANTINGS WILL BE PERFORMED BY A QUALIFIED LANDSCAPE OR NURSERY CONTRACTOR. THE ENVIRONMENTAL INSPECTOR WILL ALSO INSPECT ALL PLANTS AFTER COMPETITION OF PLANTING TO ENSURE PROPER PLANTING PROCEDURES AND THE CORRECT PLANT SPECIES WERE USED. ADDITIONALLY, THE ENVIRONMENTAL INSPECTOR WILL CONDUCT A FINAL INSPECTION OF ALL REVEGETATED AREAS AFTER THE END OF THE MONITORING PERIOD TO ENSURE FINAL STABILIZATION. ALL VEGETATION REPLACED WILL HAVE A MINIMUM TWO (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 RESEED THE CONSTRUCTION AREA WITHIN RECREATIONAL AREAS 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 (STRIPPING, SIGNAGE, AUDIBLE ROADWAY DELINEATORS)

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

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 STAFF AND THE CERTIFICATE HOLDERS.

PAVEMENT RESTORATION

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

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

SEED MIXES

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

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

GENERAL NOTES 2 OF 2

KIEWIT PROJECT NO.
21162

DRAWING NO.

G-003

DATE 12/16/2022
SH.NO. 4 OF



FOR EMCP REVIEW
NOT FOR CONSTRUCTION

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

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
E	12/16/2022	FINAL SUBMISSION	BV	TK
D	11/11/2022	DRAFT FINAL SUBMISSION	BV	TK
C	06/06/2022	60% DESIGN SUBMISSION	BV	TK
B	02/11/2022	PRELIMINARY DESIGN DEVELOPMENT	BV	TK
A	01/24/2022	PRELIMINARY PROGRESS	BV	TK

DRAWN BY: AR
DESIGNED BY: BV
APPROVED BY: TK
SCALE AS SHOWN
REV. NO. E

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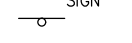

































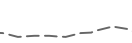















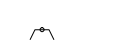









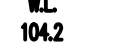









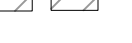





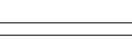

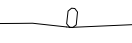



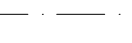

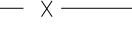







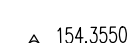
















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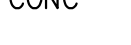


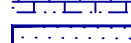





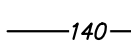
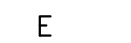


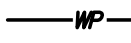

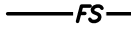






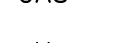
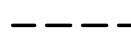







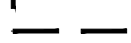








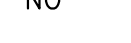

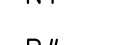






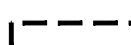

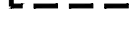




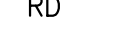



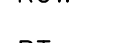


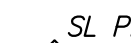

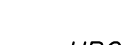
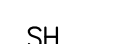




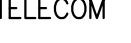

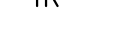
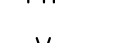






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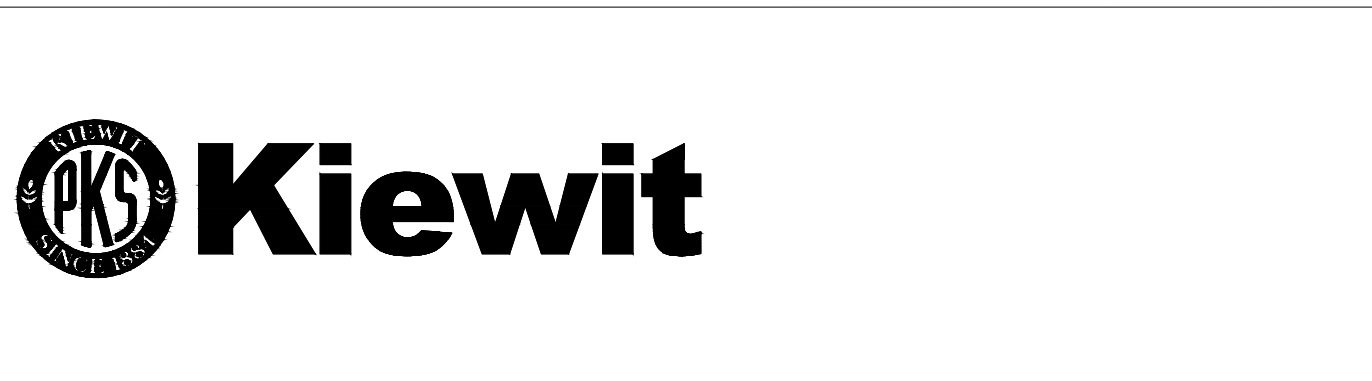
3

4

LEGEND & ABBREVIATIONS

	EXIST. FIBER OPTIC LINE HANDHOLE		EXISTING SIGN
	EXIST. FIBER OPTIC LINE PEDESTAL		EXIST. STRUCTURE POST
	EXIST. FIBER OPTIC LINE DOGHOUSE		EXIST. STRUCTURE MAILBOX
	EXIST. FIBER OPTIC LINE MANHOLE		EXIST. WETLAND FLAG
	EXIST. FIBER OPTIC LINE VAULT		EXIST. GAS LINE
	EXIST. FIBER OPTIC LINE BORE PIT		EXIST. UNDERGROUND TELE.
	EXIST. FIBER OPTIC LOCK BOX		EXIST. FIBER OPTIC
	EXIST. GROUND ROD		EXIST. OVERHEAD TELE.
	EXIST. FIBER OPTIC MARKER POST		EXIST. UNDERGROUND ELEC.
	EXIST. FIBER OPTIC BOX		EXIST. OVERHEAD ELEC.
	EXIST. FIBER STORAGE		EXIST. CULVERT
	EXIST. FIRE HYDRANT		EXIST. SANITARY SEWER
	EXIST. WATER VALVE		EXIST. STORM SEWER
	EXIST. WATER MANHOLE		EXIST. POTABLE WATER LINE
	EXIST. WATER MARKER		EXIST. RAILROAD TRACK
	EXIST. SANITARY SEWER MANHOLE		EXIST. WETLANDS
	EXIST. SANITARY SEWER VENT		CERTIFIED ROUTE PROVIDED BY CHPE KMZ
	EXIST. STORM SEWER MANHOLE		EXIST. CONTOUR, INDEX
	EXIST. STORM SEWER CATCH BASIN		EXIST. CONTOUR, DEPRESSION INDEX
	EXIST. CULVERT INVERT		EXIST. CONTOUR, INTERMEDIATE
	EXIST. GAS MANHOLE		EXIST. CONTOUR, DEPRESSION INTERMEDIATE
	EXIST. GAS VALVE		EXIST. SPOT ELEVATION
	EXIST. GAS MARKER		EXIST. CULTURAL DEBRIS
	EXIST. GAS PIPELINE VENT		EXIST. CULTURAL FIELD LINE
	EXIST. LIGHT POLE		EXIST. CULTURAL LANDSCAPE AREA
	EXIST. UTILITY POLE		EXIST. CULTURAL PILE
	EXIST. ELEC. POLE		EXIST. CULTURAL STORAGE AREA
	EXIST. TRAFFIC LIGHT		EXIST. HYDROGRAPHIC
	EXIST. ELEC. METER		EXIST. CULVERT
	EXIST. ELEC. MANHOLE		EXIST. INUNDATED AREA
	EXIST. ELEC. TRANSFORMER		EXIST. RIP-RAP
	EXIST. ELEC. VAULT		EXIST. STREAM
	EXIST. ELEC. HANDHOLE		EXIST. SWAMP
	EXIST. ELEC. PEDESTAL/BOX		WATER LEVEL
	EXIST. ELEC. MARKER POST		EXIST. NATURAL BOULDER
	EXIST. ELEC. GUY ANCHOR/WIRE		EXIST. NATURAL SHRUB LINE
	EXIST. TELE. RISER/BOX		EXIST. NATURAL TREE LINE
	EXIST. TELE. MANHOLE		EXIST. NATURAL SINGLE TREE/BUSH
	EXIST. TELE. HANDHOLE		EXIST. STRUCTURAL BUILDING
	EXIST. TELE. VAULT		EXIST. PAVED DRIVE
	EXIST. TELE. PEDESTAL		EXIST. PAVED ROAD
	EXIST. TELE. DOGHOUSE		EXIST. PAVED SHOULDER
	EXIST. TELE. MARKER POST		EXIST. PAVED SIDEWALK
	EXIST. TELE. JUNCTION BOX		EXIST. GUARDRAIL
	EXIST. TELE. TRAFFIC SIGNAL BOX		EXIST. RAILROAD
	EXIST. CELL TOWER		EXIST. TRAIL
	EXIST. CABLE BOX		EXIST. FENCE
	EXISTING MANHOLE UNKNOWN		EXIST. WALL
	EXISTING UTILITY BOX UNKNOWN		EXIST. RETAINING WALL
	EXISTING ANTENNA		EXIST. MILEPOST NUMBER
	EXISTING CAPPED IRON ROD		EXIST. MAPPING BOUNDARY
	EXISTING IRON PIPE		EXIST. GROUND CONTROL
	EXISTING CONCRETE MONUMENT		EXIST. RIGHT-OF-WAY
	EXISTING POST		EXIST. ABUTTER
	EXISTING REFLECTOR MARKER		
	EXISTING SYMBOL		

	PEM – PALUSTRINE EMERGENT		APP	APPROVED
	PSS – PALUSTRINE SCRUB-SHRUB		CL	CENTERLINE
	PFO – PALUSTRINE FORESTED		CMP	CORRUGATED METAL PIPE
	PUB – PALUSTRINE UNCONSOLIDATED BOTTOM		CONC	CONCRETE
	L1 – LACUSTRINE LIMNETIC		DB	DESIGNED BY
	L2 – LACUSTRINE LITTORAL		DEC	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
	NYSDEC FWV 100-FOOT ADJACENT BUFFER AREA		DEG	DEGREES
	ESTIMATED WETLAND BOUNDARY		DR	DRIVE
	JD BOUNDARY		DZ	DEVIATION ZONE
	PROP. TEMP MAJOR CONTOUR		E	EASTING
	PROP. TEMP MINOR CONTOUR		ELECTRIC	ELECTRIC CABLE
	PROP. WETLAND PROTECTION FENCE		ELEV	ELEVATION
	PROP. COMPOST FILTER SOCK (OR SILT SOCK)		EXIST	EXISTING
	PROP. LIMITS OF WORK/DISTURBANCE		FIBER	FIBER OPTIC CABLE
	PROP. LIMITS OF CLEARING/LIMITS OF WORK IN CLEARING AREAS		FT	FEET
	PROP. CONCRETE WASHOUT		GAS	GAS PIPE
	PROP. ACCESS ROAD ROUTE (EXISTING ROAD OR SURFACE)		H	HORIZONTAL
	PROP. REFURBISHED ACCESS ROAD		HDD	HORIZONTAL DIRECTIONAL DRILLING
	PROP. ACCESS ROAD OR OFF SITE ACCESS ROAD		HVDC	HIGH-VOLTAGE DIRECT CURRENT TRANSMISSION LINE
	PROP. TIMBER MATTING ACCESS ROAD		INV	INVERT ELEVATION
	PROP. SPLICE LOCATION		LOW	LIMITS OF WORK
	PROP. SPLICE VAULT		LT	LEFT
	PROP. LINK BOX HANDHOLE		MAX	MAXIMUM
	PROP. FIBER SPLICE HANDHOLE		MIN	MINIMUM
	PROP. BORING LOCATION		N	NORTHING
	PROP. ALIGNMENT STATIONING		NO	NUMBER
	PROP. RIGHT-OF-WAY		NY	NEW YORK
	PROP. ABUTTER		P#	PACKAGE #
	PROP. ALIGNMENT CENTERLINE		PERM	PERMANENT
	PROP. LAYDOWN YARDS, PARKING, STORAGE & MUSTER AREA		PROP.	PROPOSED
	PROP. WORK AREAS		PVC	POLYVINYL CHLORIDE
	7' FOUL ZONE: NO VEHICLES, MATERIALS, DISTURBANCE, PERSONNEL, OR WORK SHALL ENCR OACH THE ZONE WITHIN 7FT OF THE NEAREST RAIL WITHOUT CSX COORDINATION AND APPROVAL		PVI	POINT OF VERTICAL INTERSECTION
	PROP. TEMP EASEMENT		R	RADIUS
	PROP. PERM EASEMENT		RCP	REINFORCED CONCRETE PIPE
	PROP. TEMP ACCESS EASEMENT		RD	ROAD
	SPLICE LOCATION POLE MARKER		REV	REVISION
	UNDERGROUND POWER CABLE POLE MARKER		ROW	RIGHT-OF-WAY
	PROP. TRANSITION BOX MANHOLE		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



FOR EMCP REVIEW
NOT FOR CONSTRUCTION

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.

E	12/16/2022	FINAL SUBMISSION	BV	TK	
D	11/11/2022	DRAFT FINAL SUBMISSION	BV	TK	
C	06/06/2022	60% DESIGN SUBMISSION	BV	TK	
B	02/11/2022	PRELIMINARY DESIGN DEVELOPMENT	BV	TK	
A	01/24/2022	PRELIMINARY PROGRESS	BV	TK	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM					KIEWIT PROJECT NO. 21162
LEGEND AND ABBREVIATIONS					DRAWING NO. G-005
DRAWN BY:	AR	DESIGNED BY:	BV	APPROVED BY:	TK
SCALE	AS SHOWN	DATE	12/16/2022		
REV. NO.	E	SH.NO.	6	OF	



SCALE: 1" = 2000'



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.

					CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM PLAN AND PROFILE KEY MAP							KIEWIT PROJECT NO. 21162		
E	12/16/2022	FINAL SUBMISSION	BV	TK								DRAWING NO.		
D	11/11/2022	DRAFT FINAL SUBMISSION	BV	TK								G-006		
C	06/06/2022	60% DESIGN SUBMISSION	BV	TK										
B	02/11/2022	PRELIMINARY DESIGN DEVELOPMENT	BV	TK										
A	01/24/2022	PRELIMINARY PROGRESS	BV	TK										
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRAWN BY:	AR	DESIGNED BY:	BV	APPROVED BY:	TK	SCALE REV. NO.	AS SHOWN E	DATE SH.NO.	12/16/2022 7 OF

SPLICE LOCATION TABLE						
SPLICE LOCATION	SHEET NUMBER	STATION	NORTHING	EASTING	LATITUDE	LONGITUDE
155	C-102	50027+50	1444472.67	626424.45	42.79729	73.99958
156	C-104	50055+00	1441928.13	627439.19	42.79029	73.99586
157	C-106	50081+60	1439537.68	628457.80	42.78371	73.99211
158	C-107	50096+00	1438203.54	628994.71	42.78004	73.99014
158.A	C-109	50127+00	1435347.39	630168.55	42.77219	73.98584
159	C-111	50158+25	1432476.64	631357.36	42.76429	73.98147
160	C-113	50181+00	1430377.67	632226.70	42.75852	73.97829
161	C-114	50208+00	1427891.86	633267.22	42.75168	73.97447
162	C-116	50238+00	1425109.11	634379.12	42.74402	73.97039
163	C-118	50262+50	1422873.10	635365.85	42.73787	73.96677
163.A	C-119	50276+50	1421575.81	635890.71	42.73430	73.96485
164	C-121	50302+00	1419217.38	636828.54	42.72781	73.96142
165	C-122 & C-123	50330+25	1416422.76	637153.93	42.72014	73.96027
166	C-124	50349+00	1414548.73	637155.06	42.71500	73.96031
167	C-125	50373+00	1412168.55	637316.81	42.70846	73.95977
167.A	C-127	50402+25	1409320.65	637964.20	42.70064	73.95742
168	C-129	50434+00	1406236.20	638625.51	42.69216	73.95504
169	C-131 & C-132	50465+50	1403326.11	639765.66	42.68416	73.95087
170	C-133	50487+00	1401517.50	640928.17	42.67917	73.94659
171	C-135	50519+00	1398869.63	642707.80	42.67187	73.94004
172	C-137	50542+50	1396800.76	643814.44	42.66618	73.93597
173	C-139	50574+40	1393928.56	645190.90	42.65827	73.93093
174	C-140	50593+00	1392295.35	646053.34	42.65377	73.92776
175	C-142	50623+00	1389580.79	647313.60	42.64630	73.92314
176	C-144	50651+50	1386901.32	648271.05	42.63893	73.91965
177	C-146	50683+50	1384015.43	649617.61	42.63099	73.91472
178	C-148	50710+00	1381686.44	650870.50	42.62457	73.91013
179	C-150	50742+25	1378817.00	652325.23	42.61667	73.90480
180	C-152	50766+50	1376684.24	653456.92	42.61080	73.90065
181	C-154	50798+00	1374000.54	655099.12	42.60340	73.89462
182	C-156	50828+00	1371559.50	656830.61	42.59667	73.88825
183	C-157 & C-158	50855+50	1369194.58	658157.73	42.59015	73.88339
184	C-160	50887+00	1366746.42	660107.11	42.58340	73.87622

FIBER SPLICE HANDHOLE TABLE						
FIBER SPLICE HANDHOLE	SHEET NUMBER	STATION	NORTHING	EASTING	LATITUDE	LONGITUDE
155	C-102	50027+25.25	1444498.49	626422.12	42.79736	73.99959
156	C-104	50054+75.23	1441953.96	627436.85	42.79036	73.99586
157	C-106	50081+35.25	1439563.53	628455.65	42.78378	73.99212
158	C-107	50095+75.25	1438229.38	628992.44	42.78011	73.99015
158.A	C-109	50126+75.25	1435373.21	630166.07	42.77226	73.98585
159	C-111	50158+00.25	1432502.49	631355.24	42.76436	73.98148
160	C-113	50180+75.22	1430403.52	632224.54	42.75859	73.97829
161	C-114	50207+75.25	1427917.69	633264.93	42.75175	73.97448
162	C-116	50237+75.25	1425134.89	634376.24	42.74409	73.97040
163	C-118	50262+25.25	1422898.98	635364.16	42.73794	73.96678
163.A	C-119	50276+25.25	1421601.65	635888.51	42.73437	73.96486
164	C-121	50301+75.25	1419386.06	636782.15	42.72828	73.96158
165	C-122 & C-123	50330+00.25	1416447.66	637161.18	42.72021	73.96024
166	C-124	50348+75.25	1414573.71	637162.02	42.71506	73.96028
167	C-125	50372+75.25	1412194.05	637321.52	42.70853	73.95975
167.A	C-127	50402+00.25	1409346.57	637965.19	42.70071	73.95742
168	C-129	50433+75.25	1406262.09	638626.98	42.69223	73.95503
169	C-132	50465+25.25	1403351.12	639758.80	42.68422	73.95089
170	C-133	50486+75.25	1401542.51	640921.31	42.67924	73.94661
171	C-135	50518+75.25	1398894.69	642701.11	42.67194	73.94006
172	C-137	50542+25.25	1396826.45	643810.87	42.66625	73.93598
173	C-139	50574+15.25	1393954.29	645187.63	42.65834	73.93094
174	C-140	50592+75.25	1392321.08	646050.10	42.65384	73.92777
175	C-142	50622+75.25	1389606.55	647310.59	42.64637	73.92316
176	C-144	50651+25.25	1386927.23	648270.11	42.63900	73.91966
177	C-146	50683+25.25	1384040.79	649612.15	42.63106	73.91474
178	C-148	50709+75.25	1381711.90	650865.58	42.62464	73.91015
179	C-150	50742+00.25	1378842.53	652320.64	42.61674	73.90481
180	C-152	50766+25.25	1376709.78	653452.42	42.61087	73.90067
181	C-154	50797+75.25	1374025.57	655092.33	42.60347	73.89465
182	C-156	50827+75.25	1371583.59	656821.02	42.59673	73.88829
183	C-158	50855+25.25	1369216.21	658143.42	42.59021	73.88344
184	C-160	50886+75.25	1366771.09	660099.11	42.58346	73.87625

LINK BOX HANDHOLE TABLE						
LINK BOX HANDHOLE	SHEET NUMBER	STATION	NORTHING	EASTING	LATITUDE	LONGITUDE
155	C-102	50027+50	1444473.86	626437.76	42.79729	73.99953
158.A	C-109	50127+00	1435347.39	630181.86	42.77219	73.98579
162	C-116	50238+00	1425109.11	634379.12	42.74402	73.97039
166	C-124	50349+00	1414545.14	637167.93	42.71499	73.96026
169	C-131 & C-132	50465+50	1403329.64	639778.55	42.68416	73.95087
174	C-140	50593+00	1392297.02	646066.60	42.65378	73.92771
178	C-148	50710+00	1381667.93	650886.74	42.62452	73.91007
182	C-156	50828+00	1371564.43	656843.03	42.59668	73.88821

File: P:\KIE-CHPE\3-DES\02-RDW\SHITS\PS\21162_5_G-008.DWG Saved: 11/22/2022 11:50:33 AM Plotted: 12/14/2022 9:51:31 PM Current User: YelenaPhilippi LastSavedBy: Dafne Arellano

SUMMARY OF 5A TEST HOLE INFORMATION												
POINT #	TEST HOLE NAME	UTILITY SIZE O.D. (INCH)	UTILITY MATERIAL	UTILITY TYPE	DEPTH TO TOP OF UTILITY (FT)	TOP OF UTILITY ELEV (FT)	DEPTH TO BOTTOM OF UTILITY (FT)	BOTTOM OF UTILITY ELEV (FT)	NORTHING	EASTING	LATITUDE	LONGITUDE
2033	5A0001				0.00	0.00	0.00		1437660.69	629227.52	N42° 46' 42.78"	W73° 59' 21.44"
2034	5A0002				0.00	0.00	0.00		1437635.72	629243.31	N42° 46' 42.53"	W73° 59' 21.23"
2035	5A0003				0.00	0.00	0.00		1437567.05	629266.64	N42° 46' 41.85"	W73° 59' 20.93"
2036	5A0004				0.00	0.00	0.00		1437494.30	629293.48	N42° 46' 41.13"	W73° 59' 20.57"
2037	5A0005				0.00	0.00	0.00		1429100.18	632819.50	N42° 45' 18.00"	W73° 58' 33.99"
2038	5A0006				0.00	0.00	0.00		1418615.90	637024.44	N42° 43' 34.17"	W73° 57' 38.52"
2039	5A0007				0.00	0.00	0.00		1418412.37	637055.71	N42° 43' 32.16"	W73° 57' 38.12"
2040	5A0008				0.00	0.00	0.00		1410035.13	637799.52	N42° 42' 09.36"	W73° 57' 28.87"
2041	5B0001				0.00	0.00	0.00		1409990.45	637810.19	N42° 42' 08.92"	W73° 57' 28.74"
2042	5B0002				0.00	0.00	0.00		1396612.32	643905.99	N42° 39' 56.37"	W73° 56' 08.29"
2043	5B0003				0.00	0.00	0.00		1374470.58	654789.54	N42° 36' 16.91"	W73° 53' 44.73"
2044	5B0004				0.00	0.00	0.00		1370425.22	657662.82	N42° 35' 36.74"	W73° 53' 06.70"
2045	5B0005				0.00	0.00	0.00		1370396.16	657685.70	N42° 35' 36.45"	W73° 53' 06.40"
2046	5B0006				0.00	0.00	0.00		1370376.42	657699.72	N42° 35' 36.26"	W73° 53' 06.21"

NOTE: DATA SHOWN ON THIS TABLE ARE CURRENTLY PROPOSED LOCATIONS ONLY. ACTUAL TEST HOLE INFORMATION WILL BE ADDED AS RECEIVED.



FOR EMCP REVIEW
NOT FOR CONSTRUCTION

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E	12/16/2022	FINAL SUBMISSION	BV	TK	
D	11/11/2022	DRAFT FINAL SUBMISSION	BV	TK	
C	06/06/2022	60% DESIGN SUBMISSION	BV	TK	
B	02/11/2022	PRELIMINARY DESIGN DEVELOPMENT	BV	TK	
A	01/24/2022	PRELIMINARY PROGRESS	BV	TK	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

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

DRAWN BY:	AR	DESIGNED BY:	BV	APPROVED BY:	TK	SCALE	AS SHOWN	DATE	12/16/2022
						REV. NO.	E	SH.NO.	OF

KIEWIT PROJECT NO.	21162
DRAWING NO.	G-008

SEGMENT 8 – CONSTRUCTION METHODS

CHAPTER 4 –CONSTRUCTION METHODS	
TOPIC	SECTION OF EM&CP
CABLE INSTALLATION REQUIREMENTS	4.2
HORIZONTAL DIRECTIONAL DRILLING	4.3
INSTALLATION AND PERFORMANCE CONTROLS	4.3.1
BUILDINGS AND STRUCTURES WITHIN 100–FT OF HDD	4.3.2
INADVERTENT RELEASE CONTINGENCY PLAN AND DRILLING FLUID MANAGEMENT	4.3.3, APPENDIX J
ROAD CROSSING METHODS	4.3.4
TRENCHING	4.4
TRENCHING IN AGRICULTURAL LANDS	4.4.1
TRENCHING IN ROADWAYS	4.4.2
TRENCHING IN WETLANDS	4.4.3
LENGTH OF OPEN TRENCH	4.4.4
SPLICING AND JOINTING	4.4.5
DEWATERING METHODS	4.4.6
BEDDING AND BACKFILLING METHODS	4.4.7
DREDGING	NOTE APPLICABLE FOR THIS SEGMENT
CONVERTER STATION AND SUBSTATION REQUIREMENTS	NOTE APPLICABLE FOR THIS SEGMENT
RIGHT OF WAYS AND EASEMENTS	4.7
RIGHT OF WAY CLEARING	4.8 (SEE ALSO SECTION 8)
BUILDING AND STRUCTURE REMOVAL	4.9
ACCESS ROADS	4.10
DRIVEWAY ACCESS DURING CONSTRUCTION	4.10.2
ACCESS THROUGH WETLANDS OR STREAMS	4.10.3
ACCESS THROUGH AGRICULTURAL LANDS	4.10.4
DRAIN LINES AND UNDER DRAINS WITHIN AGRICULTURAL LANDS	4.10.5
SOIL MANAGEMENT PLAN	4.11 AND APPENDIX L
CULVERT REPLACEMENT	4.12

NOTE: TABLE 4 ABOVE SUMMARIZES THE CONSTRUCTION METHOD AND ASSOCIATED SUBSECTION THAT SUMMARIZES THE MEASURES AND STANDARDS THAT WILL BE FOLLOWED WITHIN SEGMENT 8.

SEGMENT 8 – HDD LOCATIONS

TABLE 4–1 – SEGMENT 8 HDD LOCATIONS				
HDD #	SHEET	LENGTH (FEET)	STATION (APPROXIMATE – SEE DRAWINGS FOR DETAILS)	PURPOSE
71	C–101 AND C–102	1,600	STA 50005 TO 50024	AVOID PHILLIPS ROAD, UNDERGROUND UTILITIES
72	C–103 AND C–104	565	STA 50043 TO 50048	AVOID MARIAVILLE ROAD
73	C–105	550	STA 50065 TO 50070	AVOID DUANESBURG ROAD
73.A AND 74	C–107 AND C–108	2,300	STA 50100 TO 50120	AVOID OVERHEAD ELECTRIC, CULVERT, NYS THRUWAY
75	C–110 AND C–111	550	STA 50145+50 TO 50153+50	AVOID GUILDERLAND AVE
75.A.A	C–112	700	STA 50168 TO 50175	AVOID WETLAND
75.A	C–115 AND C–116	1,100	STA 50210+50 TO 50233	AVOID MULTIPLE CULVERTS
75.B	C–120	729	STA 50290 TO 50297+50	AVOID CULVERTS
76 AND 76.A	C–121 AND C–122	2,000	STA 50306+50 TO 50327+50	AVOID WESTERN TURNPIKE AND WATERBODY
77	C–123 AND C–124	550	STA 50333 TO 50346	AVOID WETLAND
78	C–126 AND C–127	1,990	STA 50382+50 TO 50399	AVOID STATE ROUTE 146, CULVERT
79.B	C–128 AND C–129	1,171	STA 50409+50 TO 50422	AVOID CULVERT AND DEC STREAM
80	C–130 AND C–131	550	STA 50442+50 TO 50461+50	AVOID DEC STREAM, LIMITED ROW AREA, CULVERTS
80.A	C–137 TO C–139	2,060	STA 50551 TO 50571+50	AVOID CULVERTS AND WETLAND

TABLE 4–1 – SEGMENT 8 HDD LOCATIONS				
HDD #	SHEET	LENGTH (FEET)	STATION (APPROXIMATE – SEE DRAWINGS FOR DETAILS)	PURPOSE
81	C–139 AND C–140	550	STA 50578 TO 50588+50	AVOID CULVERTS AND UTILITIES, MAIN STREET
82 AND 83	C–140 THROUGH C–142	1,100	STA 50599+50 TO 50615+50	AVOID MAPLE ROAD, CULVERT, DEC STREAM
83.A	C–145 AND C–146	701	STA 50673+50 TO 50681	AVOID STREAM WITHIN CULVERT
84	C–146 AND C–147	715	STA 50686+50 TO 50697+75	AVOID CULVERT AND NEW SCOTLAND ROAD
84.A	C–149 AND C–150	1,028	STA 50728+50 TO 50739	AVOID NEW SCOTLAND SOUTH ROAD, BRIDGE CROSSING, AND STREAMS
84.B	C–152 AND C–153	1,032	STA 50777 TO 50787+50	AVOID GAME FARM ROAD, TERRAIN CONSTRAINTS
85	C–154 AND C–155	550	STA 50807+50 TO 50823	AVOID DELAWARE TURNPIKE AND MANY CULVERTS
87	C–156 AND C–157	720	STA 50831 TO 50842+75	AVOID STREAM AND GAS LINES
87.A.A	C–160	650	STA 50890 TO 50897	AVOID CULVERT

SEGMENT 8 – HDD INFORMATION AND ADJACENT STRUCTURES

TABLE 4–2 – SUMMARY OF STRUCTURES WITHIN 100 FEET OF HDD OPERATIONS			
HDD #	PARCEL NUMBER	STRUCTURE OWNER	SHEET (APPROXIMATE –SEE APPENDIX C FOR DETAILS)
71	47.–8–1.111	1155 PRINCETOWN ROAD, LLC	C–101 AND C–102
71	47.–8–2.5	BURDECK ST DEVELOPMENT, LLC	C–101 AND C–102
71	48.–3–5	797 BURDECK ST PROPERTY, LLC	C–101 AND C–102
71	48.9–1–8	MONINI III, VINCENT J	C–101 AND C–102
71	48.9–1–9	ATTANASIO, LINDA	C–101 AND C–102
71	48.9–1–10	ANTONELLI, LIANA G	C–101 AND C–102
71	48.9–1–12	GNIDOWSKI, DERRICK J	C–101 AND C–102
71	48.9–1–13	HOLLER, CHRISTA L	C–101 AND C–102
71	48.9–1–14.1	HAIGH, LINDA L	C–101 AND C–102
71	48.9–1–15.1	KRONE, ADAM R	C–101 AND C–102
71	48.9–1–16.1	COURT APARTMENTS LLC, BROOKVIEW	C–101 AND C–102
71	48.9–1–18	COURT APARTMENTS LLC, BROOKVIEW	C–101 AND C–102
72	48.17–3–3.1	SMITH, SHAWN M	C–103 AND C–104
72	48.17–3–11.11	COUNTY OF SCHENECTADY	C–103 AND C–104
72	48.17–3–12	DAZ REAL ESTATE DEVELOPMEN LLC	C–103 AND C–104
73	48.17–7–5.11	CAMPOLI, EILEEN M	C–105
73	48.17–7–10.11	PARKVIEW AT TICONDEROGA, LLC	C–105
73A 74	58.–2–2.21	BROWN, JEFFREY D	C–107 AND C–108
73A 74	58.14–1–4.21	WHITE, LAWRENCE G	C–107 AND C–108
73	58.–1–12.111	GOLUB CORPORATION	C–105
75	58.18–3–17	MARTINELLI, LARRY	C–105
75	70.6–3–1.1	ALGER, NINA L	C–105
75AA	70.–3–29	GRIESEMER, MICHAEL H	C–112
75A	14.00–2–29	KIRCHHOF, DARRIN G	C–115 AND C–116
75A	14.00–2–17	DEPOALO, VICTOR	C–115 AND C–116
75A	14.00–2–36.2	ZELEZNIAK, STEPHEN	C–115 AND C–116
75B AND 76 76A	26.00–3–35	EIGHTY FOUR PROPERTIES LLC	C–120 TO C–122
76 76A	38.00–4–5.5	PORTER, ZACHARY KENNETH	C–121 AND C–122
76 76A 77	38.00–4–5.6	OPEL, PAULA A	C–121 TO C–124
78	38.20–2–21	FOUR HUNDRED TWENTY EIGHT	C–126 AND C–127
78	38.00–5–14	GUILDERLAND TOWN OF	C–126 AND C–127
78 79B 80	50.00–1–14.11/2	NORTHEASTERN IP HOLDINGS INC	C–126 TO C–131
80	50.00–1–14.21	NORTHEASTERN IP HOLDINGS INC	C–130 AND C–131
80A	61.–3–16.1	FARLIN CORPORATION	C–137 TO C–139
80A 81	61.19–2–2	E W TOMPKINS CO INC	C–137 TO C–1340
81	72.8–3–1	VILLAGE OF VOORHEESVILLE	C–139 AND C–140
81	72.8–1–1	CURCIO NY, VOORHEESVILLE LLC	C–139 AND C–140
81	72.7–3–35	PHILLIPS FAMILY REALTY ASSOC.	C–139 AND C–140
81	72.7–3–31	GROVE STREET RENTALS LLC	C–139 AND C–140
81	72.7–3–31	GROVE STREET RENTALS LLC	C–139 AND C–140

TABLE 4–2 – SUMMARY OF STRUCTURES WITHIN 100 FEET OF HDD OPERATIONS			
HDD #	PARCEL NUMBER	STRUCTURE OWNER	SHEET (APPROXIMATE –SEE APPENDIX C FOR DETAILS)
81	61.19–3–22	BADGER, CHRISTINE	C–139 AND C–140
81	61.19–2–6	DERGOSITS, CHRISTINA	C–139 AND C–140
82	72.12–1–44	PIQUETTE, HENRY B	C–140 TO C–142
82	72.12–1–43	ELLIOTT, HUGUETTE B	C–140 TO C–142
82	72.12–1–43	ELLIOTT, HUGUETTE B	C–140 TO C–142
82	72.12–1–42	SIEGEL, SHARON	C–140 TO C–142
82	72.12–1–41	JONES, THOMAS K	C–140 TO C–142
82	72.12–1–40	MORRISSEY, MEGHAN	C–140 TO C–142
82	72.12–1–39	BARONE, JOSEPH A	C–140 TO C–142
82	72.12–1–38	PORTER, JOHN M	C–140 TO C–142
82	72.12–1–37	WILK, SYDNEY	C–140 TO C–142
82	72.12–1–36	MAXWELL, SHAWN R	C–140 TO C–142
82	72.12–4–9	HARBOUR–HOLLAND, MARGARET E	C–140 TO C–142
82	72.12–4–8	STARK, GEORGE E	C–140 TO C–142
82	72.12–4–6	SCHIPANO, DIANE	C–140 TO C–142
82	72.12–4–2	MAPLE TOV, LLC	C–140 TO C–142
82	72.12–4–1	MAPLE TOV, LLC	C–140 TO C–142
82	72.12–3–1	GARDNER JASON	C–140 TO C–142
82	72.8–1–26	KAUS, ROBERT B	C–140 TO C–142
82	72.8–1–38	SEMENICK, JOHN –LE–	C–140 TO C–142
82	72.8–1–25	SEMENICK, JOHN J	C–140 TO C–142
82	72.8–1–7.2	UNITED STATES POSTAL SERVICE	C–140 TO C–142
83A	72.–3–41.2	MENGEL, ROBERT A	C–145 AND C–146
83A	72.–3–41.3	WOOD, DENNIS	C–145 AND C–146
83A	72.–3–42	MOREAU, DAVID N	C–145 AND C–146
83A	72.–3–41.611	ECKELS, ROBERT	C–145 AND C–146
83A 84	72.–3–41.612	WUTTKE, ERIC	C–145 TO C–147
84	95.–4–2	ROBERT P LONG	C–146 AND C–147
84	95.–4–2	CSX TRANSPORTATION INC.	C–146 AND C–147
84A	84.–4–1.22	JEAJ, LLC	C–149 AND C–150
84A	84.–4–1.21	BOEHLKE, CHESTER	C–149 AND C–150
84A	84.–2–49.4	MURRAY, LAURA K	C–149 AND C–150
84A	84.–2–49.3	BOEHLKE, CHESTER D SR	C–149 AND C–150
84B	84.–2–50	NYSDEC	C–152 AND C–153
84B	84.–2–50	NEW YORK STATE, NYSDEC	C–152 AND C–153
84B	95.–3–1.1	WRIGHT, BARBARA	C–152 AND C–153
85	95.–3–42	KEIB, MATTHIAS	C–154 AND C–155
87	107.–1–3	HASKELL, KEVIN R	C–156 AND C–157
87AA	108.00–1–13	FLACH PROPERTIES LLC	C–160
87AA	108.00–1–12	FLACH PROPERTIES LLC	C–160

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A	01/24/2022	PRELIMINARY PROGRESS	BV	TK	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

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

DRAWN BY:	AR	DESIGNED BY:	BV	APPROVED BY:	TK	SCALE	AS SHOWN	DATE	12/16/2022
						REV. NO.	E	SH.NO.	OF

KIEWIT PROJECT NO.	21162
DRAWING NO.	G-009

SEGMENT 8 – FACILITY OWNERSHIP AND EASEMENTS

TABLE 4-4 – FACILITY ROW OWNERSHIP FOR SEGMENT 8							
COUNTY	TOWN	PARCEL NUMBER	PROPERTY OWNER	STATION START	STATION END	OWNER TYPE	TYPE OF EASEMENT
SCHENECTADY COUNTY	ROTTERDAM		PRINCETOWN ROAD	50000+00	50011+95	PUBLIC	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM		PRINCETOWN ROAD	50000+00	50005+38	PUBLIC	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM		PHILIPS ROAD	50009+63	50009+89	PUBLIC	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	48.1-12.11	DELAWARE & HUDSON RAIL COMPANY	50011+95	50013+25	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	47.8-1.111	1155 PRINCETOWN ROAD, LLC	50014+68	50015+28	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM		BURDECK STREET (EAST AND WEST BOUNDARY)	50020+71	50021+80	PUBLIC	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM		BURDECK STREET	50021+57	50022+17	PUBLIC	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	48.00-3-5	797 BURDECK ST PROPERTY LLC	50023+67	50022+44	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	48.00-3-5	797 BURDECK ST PROPERTY LLC	50023+33	50029+46	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	48.00-1-12	DELAWARE & HUDSON RAILWAY	50034+59	50035+24	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	48.00-1-12	DELAWARE & HUDSON RAILWAY (EAST AND WEST BOUNDARY)	50034+69	50035+37	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	48.00-1-12	DELAWARE & HUDSON RAILWAY	50034+76	50035+41	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM		KELLER AVE	50040+88	50041+84	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM		KELLER AVE (EAST AND WEST BOUNDARY)	50040+88	50041+84	PUBLIC	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	48.17-3-3.1	SHAWN M & PAMELA V. SMITH	50041+70	50044+23	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	48.17-3-3.1	SHAWN M & PAMELA V. SMITH	50041+70	50042+77	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM		MARIAVILLE ROAD (EAST AND WEST BOUNDARY)	50044+23	50044+85	PUBLIC	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	48.17-3-12	DAZ REAL ESTATE DEVELOPMENT	50044+85	50045+37	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	48.17-3-11.11	COUNTY OF SCHENECTADY	50045+37	50057+99	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	48.17-3-11.11	COUNTY OF SCHENECTADY	50048+76	50054+00	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	48.17-3-11.11	COUNTY OF SCHENECTADY	50056+00	50058+62	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	48.17-3-11.11	COUNTY OF SCHEMECTADY	50058+01	50058+79	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	48.17-7-3	3324 THOMSON LLC	50058+62	50061+85	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	48.17-7-3	3324 THOMSON LLC (EAST AND WEST BOUNDARY)	50058+79	50061+85	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	48.17-7-3	3324 THOMSON LLC	50060+02	50061+35	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	48.17-7-10.11	PARKVIEW AT TICONDEROGA, LLC	50061+35	50065+02	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	48.17-7-10.11	PARKVIEW AT TICONDEROGA, LLC (EAST AND WEST BOUNDARY)	50061+85	50067+11	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	48.17-7-10.11	PARKVIEW AT TICONDEROGA, LLC	50061+85	50065+02	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM		DUANESBURG ROAD (EAST AND WEST BOUNDARY)	50067+11	50067+68	PUBLIC	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	58.00-2-12.111	GOLUB CORPORATION	50067+68	50086+58	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	58.00-2-12.111	GOLUB CORPORATION	50070+08	50090+73	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	58.00-2-12.111	GOLUB CORPORATION	50070+14	50072+63	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	58.00-2-12.111	GOLUB CORPORATION	50094+15	50100+51	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	58.00-2-12.111	GOLUB CORPORATION	50095+00	50097+00	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	58.00-2-12.11	GOLUB CORPORATION	50104+45	50105+09	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	58.00-1-2.31	ROTTERDAM VENTURES INC	50105+09	50108+79	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	58.00-1-8	ANEEL RAMTEJ	50108+79	50144+88	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM		NEW YORK STATE THROUGHWAY	50114+88	50119+54	PUBLIC	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM		NEW YORK STATE THROUGHWAY	50118+21	50119+96	PUBLIC	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM		NEW YORK STATE THROUGHWAY	50118+31	50119+82	PUBLIC	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	58.14-1-4.21	LAWRENCE G. WHITE (EAST AND WEST BOUNDARY)	50119+54	50122+75	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	58.14-1-4.21	LAWRENCE G. WHITE	50119+96	50122+75	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	58.14-1-4.111	JACOB SCHUMACHER & ALEXANDER FROST	50122+75	50125+60	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	58.14-1-4.111	JACOB SCHUMACHER & ALEXANDER FROST	50122+75	50125+60	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	58.14-1-4.111	JACOB SCHUMACHER & ALEXANDER FROST	50122+75	50125+60	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	58.14-1-4.112	HARVEY CIVIL . & ANN M. NEACH	50125+60	50128+01	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	58.14-1-4.112	HARVEY CIVIL . & ANN M. NEACH	50125+60	50128+01	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	58.14-1-4.112	HARVEY CIVIL . & ANN M. NEACH	50125+60	50128+01	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	58.14-1-6	WESTCOTT ENTERPRISES, LLC	50128+01	50130+05	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	58.14-1-6	WESTCOTT ENTERPRISES, LLC	50128+01	50133+23	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	58.18-3-17	LARRY MARTINELLI	50143+86	50145+25	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	58.18-3-17	LARRY MARTINELLI	50146+30	50149+04	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	58.18-3-17	LARRY MATINELLI	50148+59	50149+04	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM		GUILDERLAND AVE	50149+02	20149+26	PUBLIC	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM		GUILDERLAND AVE	50149+04	50149+32	PUBLIC	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM		GUILDERLAND AVE (EAST AND WEST BOUNDARY)	50149+04	50150+57	PUBLIC	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	70.06-3-1.1	THE ALGER REVOCABLE TRUST	50150+57	50159+13	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	70.06-3-1.1	THE ALGER REVOCABLE TRUST	50153+64	50159+13	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	70.06-3-1.1	THE ALGER REVOCABLE TRUST	50153+64	50159+13	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	70.00-2-5.111	FIRE DISTRICT OF #5	50159+13	50163+11	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	70.00-2-5.111	FIRE DISTRICT OF #5	50159+13	50161+25	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	70.00-2-5.111	FIRE DISTRICT OF #5	50159+13	50176+70	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	70.00-2-5.111	FIRE DISTRICT OF #5	50167+15	50176+70	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	70.00-3-29	MICHAEL H. GRIESEMER	50176+70	50183+64	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	70.00-3-29	MICHAEL H. GRIESEMER	50176+70	50183+64	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	70.00-2-22	COLLINS REVOCABLE TRUST, RANDOLPH J.	50183+64	50188+53	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND		COUNTY LINE ROAD (EAST)	50194+91	50195+41	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND		COUNTY LINE ROAD (EAST AND WEST BOUNDARY)	50194+91	50195+41	PUBLIC	PERMANENT
ALBANY COUNTY	GUILDERLAND		COUNTY LINE ROAD (WEST)	50194+91	50195+41	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	14.-2-15	MARTHA E. MASTERS	50195+41	50207+24	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	14.-2-15	MARTHA E. MASTERS	50195+41	50200+12	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	14.-2-15	MARTHA E. MASTERS	50203+17	50206+33	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	14.-2-17	VICTOR DEPOALO	50207+24	50210+36	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	14.-2-17	VICTOR DEPOALO	50207+24	50211+75	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	14-2-36.2	STEPHEN ZELENIAK	50235+93	50239+95	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	14-2-36.2	STEPHEN ZELENIAK	50251+41	50252+68	PRIVATE	TEMPORARY CONSTRUCTION

TABLE 4-4 – FACILITY ROW OWNERSHIP FOR SEGMENT 8							
COUNTY	TOWN	PARCEL NUMBER	PROPERTY OWNER	STATION START	STATION END	OWNER TYPE	TYPE OF EASEMENT
ALBANY COUNTY	GUILDERLAND	14-2-36.2	STEPHEN ZELENIAK (EAST AND WEST BOUNDARY)	50251+41	50252+68	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	14-2-36.2	STEPHEN ZELENIAK	50251+41	50252+68	PRIVATE	TEMPORARY CONSTRUCTION (MUSTER AREA)
ALBANY COUNTY	GUILDERLAND		W. OLD STATE ROAD	50253+42	50253+91	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND		W. OLD STATE ROAD (EAST AND WEST BOUNDARY)	50253+42	50253+91	PUBLIC	PERMANENT
ALBANY COUNTY	GUILDERLAND	26.00-3-22	BRIAN E.MAKI (EAST AND WEST BOUNDARY)	50254+25	20256+41	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	26.00-3-22	BRIAN E.MAKI	50254+25	20256+41	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	26.00-3-20.1	JAMES A. MOLLER (EAST AND WEST BOUNDARY)	50256+41	50257+87	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	26.00-3-20.1	JAMES A. MOLLER	50256+41	50261+91	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	26.00-3-20.1	JAMES A. MOLLER	50261+50	50261+91	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	26.00-3-19	DAVID R. RALSTON	50261+91	50263+50	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	26.00-3-19	DAVID R. RALSTON	50261+91	50267+98	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	26.00-3-34	ROBERT DUNCAN	50280+39	50299+71	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	26.00-3-34	ROBERT DUNCAN	50281+01	50283+95	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	26.00-3-34	ROBERT DUNCAN	50290+25	50298+64	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	26.00-3-34	ROBERT DUNCAN	50297+40	50299+70	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	26.00-3-35	EIGHTY FOUR PROPERTIES, LLC	50301+00	50303+00	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	26.00-3-35	EIGHTY FOUR PROPERTIES, LLC	50299+71	50307+05	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	26.00-3-35	EIGHTY FOUR PROPERTIES, LLC	50304+48	50305+03	PRIVATE	TEMPORARY CONSTRUCTION (ACCESS RD)
ALBANY COUNTY	GUILDERLAND	26.00-3-35	EIGHTY FOUR PROPERTIES, LLC	50305+88	50308+78	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND		ROUTE 20 – WESTERN TURNPIKE	50308+78	50309+66	PUBLIC	PERMANENT
ALBANY COUNTY	GUILDERLAND	38.00-4-9	CRISTO DEMOLITIONS LLC	50308+96	50309+56	PRIVATE	TEMPORARY CONSTRUCTION (ACCESS RD)
ALBANY COUNTY	GUILDERLAND	38.00-4-9	CRISTO DEMOLITIONS LLC	50310+21	50359+75	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	38.00-4-9	CRISTO DEMOLITIONS LLC	50310+61	50311+57	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND		FULLER STATION ROAD	50335+69	50336+90	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	38.00-4.9	CRISTO DEMOLITIONS INC	50338+38	50348+53	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	26.00-4-3	WATERVLJET WATER BOARD	50364+33	50368+54	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	38.00-5-12	TOWN OF GUILDERLAND	50368+54	50371+18	PRIVATE	TEMPORARY CONSTRUCTION (ACCESS RD)
ALBANY COUNTY	GUILDERLAND	38.00-5-13	TOWN OF GUILDERLAND	50371+18	50375+47	PRIVATE	TEMPORARY CONSTRUCTION (ACCESS RD)
ALBANY COUNTY	GUILDERLAND		FRENCH MILLS ROAD	50377+66	50378+16	PUBLIC	PERMANENT
ALBANY COUNTY	GUILDERLAND		FRENCH MILLS ROAD (EAST)	50377+66	50378+16	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND		FRENCH MILLS ROAD (WEST)	50377+66	50378+16	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	38.00-5-14	TOWN OF GUILDERLAND	50378+53	50384+83	PRIVATE	TEMPORARY CONSTRUCTION (ACCESS RD)
ALBANY COUNTY	GUILDERLAND		STATE ROUTE 146	50393+06	50394+20	PUBLIC	PERMANENT
ALBANY COUNTY	GUILDERLAND	50.00-1-15	TOWN OF GUILDERLAND	50394+77	50396+68	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	50.00-1-14.11	NORTHEASTERN IP HOLDINGS INC	50396+68	50445+46	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	50.00-1-14.11	NORTHEASTERN IP HOLDINGS INC	50398+15	50404+69	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND		VAN BUREN BLVD	50398+15	50404+69	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	50.00-1-14.11	NORTHEASTERN IP HOLDINGS INC	50399+12	50409+89	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	50.00-1-14.11	NORTHEASTERN IP HOLDINGS INC	50407+63	50409K75	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	50.00-1-14.11	NORTHEASTERN IP HOLDINGS INC	50421+94	50442+90	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	50.00-1-14.11	NORTHEASTERN IP HOLDINGS INC	50421+94	50445+46	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	50.00-1-14.11	NORTHEASTERN IP HOLDINGS INC	50422+27	50444+80	PRIVATE	TEMPORARY CONSTRUCTION (ACCESS RD)
ALBANY COUNTY	GUILDERLAND	50.00-1-14.21	NORTHEASTERN IP HOLDINGS INC	50445+45	50467+43	PRIVATE	TEMPORARY CONSTRUCTION (ACCESS RD)
ALBANY COUNTY	GUILDERLAND	50.00-1-14.21	NORTHEASTERN IP HOLDINGS INC	50445+45	40457+52	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	50.00-1-14.21	NORTHEASTERN IP HOLDINGS INC	50468+98	50473+30	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	50.00-1-14.21	NORTHEASTERN IP HOLDINGS INC	50485+04	50488+86	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND		STONE ROAD (EAST)	50501+94	50502+54	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND		STONE ROAD	50501+94	50502+54	PUBLIC	PERMANENT
ALBANY COUNTY	GUILDERLAND		STONE ROAD (WEST)	50501+94	50502+54	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	61.00-1-22	RANDY J.DAVIS	50502+44	50506+19	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	61.00-1-23	ALICIA L. MCNALLY	50506+19	50507+57	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	61.00-1-26.2	GUILDERLAND AND SELF STORAGE INC	50507+57	50511+03	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	61.00-1-26.3	HELDEBURG ROOF CONSLTANTS LLC	50516+58	50520+96	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	61.00-1-26.3	HELDEBURG ROOF CONSLTANTS LLC	50518+00	50520+00	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	61.00-1-28.2	JEFFERY LAWYER	50540+64	50544+36	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	61.00-3-16.1	FARLIN CORPORATION	50549+59	50551+17	PRIVATE	TEMPORARY CONSTRUCTION (ACCESS RD)
ALBANY COUNTY	NEW SCOTLAND	61.19-2-2	EW THOMPKINS CO. INC.	50559+88	50560+55	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	61.19-2-2	EW THOMPKINS CO. INC.	50569+51	50541+47	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND		FOUNDARY ROAD	50573+25	50578+69	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	61.18-4-1.1	NORFOLK SOUTHERN RIALWAY CO.	50582+95	50585+26	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	61.18-4-1.1	NORFOLK SOUTHERN RIALWAY CO.	50585+19	50585+97	PRIVATE	TEMPORARY CONSTRUCTION (MUSTER AREA)
ALBANY COUNTY	NEW SCOTLAND	72.8-3-1	VILLAGE OF VOORHEESVILLE	50585+19	50586+31	PRIVATE	TEMPORARY CONSTRUCTION (MUSTER AREA)
ALBANY COUNTY	NEW SCOTLAND	61.18-4-1.1	NORFOLK SOUTHERN RIALWAY CO.	50585+26	50585+97	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND		VOORHEESVILLE AVE	50596+35	50596+53	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.8-1-7.2	UNITED STATES POSTAL SERVICE	50596+53	50598+70	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.8-1-7.1	MARK CROUNSE	50596+53	50600+62	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.8-1-38	JOHN LE SEMENICK	50603+76	50605+37	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.8-1-26	ROBERT B. KAUS	50605+37	50608+52	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.12-3-1	JASON GARDNER	50607+03	50608+52	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND		MAPLE ROAD	50608+52	50609+60	PUBLIC	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.12-4-1	MAPLE TOV, LLC	50609+60	50611+49	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.12-4-2	MAPLE TOV, LLC	50611+49	50614+27	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.12-4-2	MAPLE TOV, LLC	50615+38	50615+51	PRIVATE	TEMPORARY CONSTRUCTION (ACCESS RD)

SEGMENT 8 – FACILITY OWNERSHIP AND EASEMENTS (CONTINUED)

TABLE 4-4. FACILITY ROW OWNERSHIP FOR SEGMENT 8							
COUNTY	TOWN	PARCEL NUMBER	PROPERTY OWNER	STATION START	STATION END	OWNER TYPE	TYPE OF EASEMENT
ALBANY COUNTY	NEW SCOTLAND	72.12-4-6	DIANE SCHIPANO	50615+51	50616+80	PRIVATE	TEMPORARY CONSTRUCTION (ACCESS RD)
ALBANY COUNTY	NEW SCOTLAND	72.12-4-8	GEORGE E. STARK	50616+80	50617+59	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.12-4-8	MARGARET E. HARBOUR-HOLLAND	50617+59	50619+37	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.12-4-10	NEIL D. SHANNON	50619+37	50620+94	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.12-4-10	NEIL D. SHANNON	50620+69	50620+94	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.12-4-21	VILLAGE OF VOORHEESVILLE	50620+94	50628+15	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.12-4-21	VILLAGE OF VOORHEESVILLE	50620+94	50627+88	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.16-5-44	VILLAGE OF VOORHEESVILLE	50645+99	50647+91	PRIVATE	TEMPORARY CONSTRUCTION (ACCESS RD)
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.51	DAVID N. MOREAU	50647+91	50648+40	PRIVATE	TEMPORARY CONSTRUCTION (ACCESS RD)
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.51	DAVID N. MOREAU	50648+71	50656+90	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.51	DAVID N. MOREAU	50650+50	50652+50	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.51	DAVID N. MOREAU (EAST)	50664+42	50666+76	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.51	DAVID N. MOREAU	50664+42	50666+76	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.51	DAVID N. MOREAU (WEST)	50664+42	50666+76	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND		YOUNANS ROAD (EAST)	50666+76	50667+98	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND		YOUNANS ROAD	50666+76	50667+98	PUBLIC	PERMANENT
ALBANY COUNTY	NEW SCOTLAND		YOUNANS ROAD (WEST)	50666+76	50667+98	PUBLIC	TEMPORARY CONSTRUCTION (MUSTER AREA)
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.2	ROBERT A. MENGEL (EAST)	50667+98	50671+62	PRIVATE	TEMPORARY CONSTRUCTION (MUSTER AREA)
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.2	ROBERT A. MENGEL	50667+98	50671+62	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.2	ROBERT A. MENGEL (WEST)	50667+98	50670+39	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.3	DENNIS WOOD	50671+62	50674+32	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.3	DENNIS WOOD	50671+62	50674+32	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.00-3-42	DAVID N. MOREAU	50674+32	50675+19	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.00-3-42	DAVID N. MOREAU	50674+32	50675+19	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.00-3-43	GREGORY DAVID YOUNANS	50675+19	50676+77	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.00-3-43	GREGORY DAVID YOUNANS	50675+19	50676+77	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.611	ROBERT ECKLES	50676+77	50682+54	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.611	ROBERT ECKLES	50676+77	50682+54	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.612	ERIC WUTTKE	50682+54	50689+26	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.612	ERIC WUTTKE	50682+54	50688+59	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	84.00-1-9	JAMES J. CRAMER	50688+59	50691+45	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND		WHITBECK LANE	50691+45	50691+84	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND		NEW SCOTLAND ROAD	50691+84	50693+07	PUBLIC	PERMANENT
ALBANY COUNTY	NEW SCOTLAND		NEW SCOTLAND ROAD	50693+27	50693+76	PUBLIC	TEMPORARY CONSTRUCTION (ACCESS RD)
ALBANY COUNTY	NEW SCOTLAND	84.00-1-26	LONG FAMILY REVOCABLE TRUST	50693+76	50704+04	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	84.00-1-38.1	MARTHA ODEN	50709+67	50711+99	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	84.00-2-49.4	LAURA K. MURRAY	50730+07	50730+88	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	84.00-2-49.4	LAURA K. MURRAY	50730+07	50730+88	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND		NEW SCOTLAND SOUTH ROAD (EAST)	50730+88	50731+44	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND		NEW SCOTLAND SOUTH ROAD	50730+88	50731+44	PUBLIC	PERMANENT
ALBANY COUNTY	NEW SCOTLAND		NEW SCOTLAND SOUTH ROAD (WEST)	50730+88	50731+44	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	84.00-4-1.21	CHESTER BOEHLKE	50731+44	50738+12	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	84.00-4-1.21	CHESTER BOEHLKE	50731+44	50735+12	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	84.00-4-1.21	CHESTER BOEHLKE	50735+81	50738+12	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	84.00-4-1.22	JEAJ, LLC	50738+12	50749+69	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	84.00-4-1.22	JEAJ, LLC	50738+12	50749+69	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	95.00-3-1.1	BARBARA WRIGHT	50764+53	507668+00	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	95.00-3-1.1	BARBARA WRIGHT	50774+30	50777+34	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	95.00-3-1.1	BARBARA WRIGHT	50777+34	50779+78	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND		GAME FARM ROAD (EAST AND WEST BOUNDARY)	50779+78	50779+92	PUBLIC	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	95.00-3-3	NIAGARA MOHAWK DBA NATIONAL GRID	50787+43	50790+60	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	95.00-3-42	MATHIAS KEIB	50796+88	50800+30	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	95.00-3-42	MATHIAS KEIB	50796+22	50800+09	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	95.00-3-42	MATHIAS KEIB	50803+82	50808+13	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	95.00-3-42	MATHIAS KEIB	50807+02	50809+40	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	95.00-3-41	CSX TRANSPORTATION INC.	50809+40	50810+79	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	95.00-3-41	CSX TRANSPORTATION INC.	50809+64	50811+20	PRIVATE	TEMPORARY CONSTRUCTION (ACCESS RD)
ALBANY COUNTY	NEW SCOTLAND		DELAWARE TURNPIKE (EAST AND WEST BOUNDARY)	50810+79	50811+55	PUBLIC	PERMANENT
ALBANY COUNTY	NEW SCOTLAND		DELAWARE TURNPIKE	50811+20	50811+58	PUBLIC	TEMPORARY CONSTRUCTION (ACCESS RD)
ALBANY COUNTY	NEW SCOTLAND		WAIDENMAIER ROAD	50831+61	50832+74	PUBLIC	TEMPORARY CONSTRUCTION (ACCESS RD)
ALBANY COUNTY	NEW SCOTLAND		UNIONVILLE FEURA BUSH ROAD	50837+95	50838+77	PUBLIC	TEMPORARY CONSTRUCTION (ACCESS RD)
ALBANY COUNTY	NEW SCOTLAND	108.00-1-12	FLACH PROPERTIES LLC	50885+15	50886+87	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	107.00-1-29	FLACH PROPERTIES LLC	50898+40	50898+71	PRIVATE	TEMPORARY CONSTRUCTION (ACCESS RD)
ALBANY COUNTY	NEW SCOTLAND	108.00-1-12	FLACH PROPERTIES LLC	50898+40	50898+71	PRIVATE	TEMPORARY CONSTRUCTION (ACCESS RD)
ALBANY COUNTY	BETHLEHEM	108.00-1-13	FLACH PROPERTIES LLC	50900+42	50901+16	PRIVATE	TEMPORARY CONSTRUCTION (ACCESS RD)
ALBANY COUNTY	BETHLEHEM	108.00-1-13	FLACH PROPERTIES LLC (EAST AND WEST BOUNDARY)	50900+54	50901+16	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	108.00-1-13	FLACH PROPERTIES LLC	50900+70	50900+87	PRIVATE	TEMPORARY CONSTRUCTION

SEGMENT 8 – CONSTRUCTION MATERIALS AND EQUIPMENT STAGING LOCATIONS AND WORK AREAS

TABLE 5-2. CONSTRUCTION MATERIALS AND EQUIPMENT STAGING LOCATIONS AND WORK AREAS		
STAGING AREA/WORK AREA	SHEET	LOCATION (APPROXIMATE –SEE APPENDIX C FOR FURTHER DETAILS)
HDD 71 ENTRY WORK AREA	C-101	STA 50005
HDD 71 EXIT WORK AREA	C-102	STA 50024
HDD 72 ENTRY WORK AREA	C-103	STA 50043
HDD 72 EXIT WORK AREA	C-104	STA 50049
POTENTIAL MUSTER SITE	C-105	STA 50063
HDD 73 ENTRY WORK AREA	C-105	STA 50065
HDD 73 EXIT WORK AREA	C-105	STA 50070
HDD 73.A AND 74 ENTRY WORK AREA	C-107	STA 50100
POTENTIAL MUSTER SITE	C-108	STA 50119
HHD 73.A AND 74 EXIT WORK AREA	C-109	STA 50120
HDD 75 ENTRY WORK AREA	C-110	STA 50145
HDD 75 EXIT WORK AREA	C-111	STA 50154
HDD 75.A.A ENTRY WORK AREA	C-112	STA 50166
HDD 75.A.A EXIT WORK AREA	C-112	STA 50177
HDD 75.A ENTRY WORK AREA	C-115	STA 50210
HDD 75.A EXIT WORK AREA	C-116	STA 50234
HDD 75.B ENTRY WORK AREA	C-120	STA 50289
HDD 75.B EXIT WORK AREA	C-120	STA 50298
HDD 76 AND 76.A ENTRY WORK AREA	C-121	STA 50306
HDD 76 AND 76.A EXIT WORK AREA	C-122	STA 50328
HDD 77 ENTRY WORK AREA	C-123	STA 50333
HDD 77 EXIT WORK AREA	C-124	STA 50347
HDD 78 ENTRY WORK AREA	C-126	STA 50382
HDD 78 EXIT WORK AREA	C-127	STA 50399
HDD 79.B ENTRY WORK AREA	C-128	STA 50409
HDD 79.B EXIT WORK AREA	C-129	STA 50422
HDD 80 ENTRY WORK AREA	C-130	STA 50441
HDD 80 EXIT WORK AREA	C-131	STA 50462
HDD 80.A ENTRY WORK AREA	C-137	STA 50549
HDD 80.A EXIT WORK AREA	C-139	STA 50572
HDD 81 ENTRY WORK AREA	C-139	STA 50577
HDD 81 EXIT WORK AREA	C-140	STA 50589
HDD 82 AND 83 ENTRY WORK AREA	C-140	STA 50598
HDD 82 AND 83 EXIT WORK AREA	C-142	STA 50616
HDD 83.A ENTRY WORK AREA	C-145	STA 50673
HDD 83.A EXIT WORK AREA	C-146	STA 50680
HDD 84 ENTRY WORK AREA	C-146	STA 50687
HDD 84 EXIT WORK AREA	C-147	STA 50698
HDD 84.A ENTRY WORK AREA	C-149	STA 50728
HDD 84.A EXIT WORK AREA	C-150	STA 50739
HDD 84.B ENTRY WORK AREA	C-152	STA 50777
HDD 84.B EXIT WORK AREA	C-153	STA 50788
HDD 85 ENTRY WORK AREA	C-154	STA 50806
HDD 85 EXIT WORK AREA	C-155	STA 50824
HDD 87 ENTRY WORK AREA	C-156	STA 50830
HDD 87 EXIT WORK AREA	C-157	STA 50844
HDD 87.A.A ENTRY WORK AREA	C-160	STA 50890
HDD 87.A.A EXIT WORK AREA	C-160	STA 50897

SEGMENT 8 – ACCESS ROADS

TABLE 4-6 – SEGMENT 8 ACCESS ROADS				
ACCESS ROAD/ROUTE NUMBER	TEMPORARY OR PERMANENT	SHEET	LOCATION (APPROXIMATE –SEE DRAWINGS FOR DETAILS)	SENSITIVE AREAS CROSSED (AG OR WETLANDS)
5A-01-RD	TEMPORARY	C-202	STA 50041	NONE
5A-03-RD	TEMPORARY	C-203	STA 50149	WETLAND
5A-04-RD	TEMPORARY	C-203	STA 50253	NONE
5A-05-RD	TEMPORARY	C-204 TO C-206	STA 50345	WETLAND
5A-06-RD	TEMPORARY	C-207	STA 50333	NONE
5A-07-RD	TEMPORARY	C-207	STA 50365	NONE
5A-08-RD	TEMPORARY	C-208	STA 50371	NONE
5A-09-RD	TEMPORARY	C-208	STA 50473	WETLAND
5A-10-RD	TEMPORARY	C-209	STA 50550	AGRICULTURE
5A-11-RD	TEMPORARY	C-209	STA 50648	WETLAND
5A-13-RD	TEMPORARY	C-210	STA 50807	NONE
5A-14-RD	TEMPORARY	C-211	STA 50829	NONE
5A-15-RD	TEMPORARY	C-211	STA 50843	NONE
5A-01-RTE	TEMPORARY	C-212	STA 50057	NONE
5A-02-RTE	TEMPORARY	C-212	STA 50064	NONE
5A-03-RTE	TEMPORARY	C-213	STA 50084	NONE
5A-04-RTE	TEMPORARY	C-214	STA 50305	NONE
5A-06-RTE	TEMPORARY	C-215	STA 50383	NONE
5A-07-RTE	TEMPORARY	C-216	STA 50443	NONE
5A-08-RTE	TEMPORARY	C-217 THROUGH C-219	STA 50473	NONE
5A-09-RTE	TEMPORARY	C-220	STA 50550	NONE
5A-10-RTE	TEMPORARY	C-221	STA 50616	NONE
5A-11-RTE	TEMPORARY	C-222	STA 50698	NONE
5A-12-RTE	TEMPORARY	C-223	STA 50898	NONE

TABLE 4-5 SUMMARIZES THE ACCESS ROADS IN THIS PACKAGE AND THEIR ASSOCIATED IMPACTS ON ENVIRONMENTALLY SENSITIVE AREAS AND AGRICULTURAL LANDS IF APPLICABLE. SECTION 4.10 OF THE EM&CP SUMMARIZES THE PROCEDURES THAT WILL BE FOLLOWED FOR THE CONSTRUCTION OF ALL ACCESS ROADS. ALL ACCESS ROADS WILL BE TEMPORARY AND RESTORED ACCORDING TO SECTION 14.2.4 AND 14.4.1 OF THE EM&CP AS APPLICABLE.

SEGMENT 8 – AGRICULTURAL LANDS

SEGMENT 8 AGRICULTURAL LANDS				
AGRICULTURAL LAND DESCRIPTION	PARCEL NUMBER	PLAN AND PROFILE (APPENDIX C) SHEET NUMBER	STATION (APPROXIMATE –SEE APPENDIX C FOR DETAILS)	ANTICIPATED IMPACTS TO AGRICULTURAL ACTIVITIES/LAND
AGRICULTURAL LAND #1	26.00-3-18	C-118 AND C-119	STA 50268+50 TO 50270+96	THE TRENCH CONSTRUCTION IS OUTSIDE OF THE REGULATED AGRICULTURAL AREA. GRADING WILL ONLY IMPACT THE EDGE OF THE AGRICULTURAL FIELD. ALL BMPS OUTLINED IN SECTION 7.1 AND RESTORATION REQUIREMENTS IN SECTION 14.5 WILL BE FOLLOWED.
AGRICULTURAL LAND #2	26.00-3-34	C-119 AND C-120	STA 50282+62 TO 50291+06	THE TRENCH CONSTRUCTION WILL ONLY IMPACT THE EDGE OF THE AGRICULTURAL FIELD. THE AGRICULTURAL TRENCH DETAIL ON SHEET C-621 WILL BE UTILIZED. ALL BMPS OUTLINED IN SECTION 7.1 AND RESTORATION REQUIREMENTS IN SECTION 14.5 WILL BE FOLLOWED.
AGRICULTURAL LAND #3	61.00-1-26.3	C-135	STA 50514+57 TO 50521+83	THE TRENCH CONSTRUCTION WILL ONLY IMPACT THE EDGE OF THE AGRICULTURAL FIELD. SPLICE LOCATION 171 WILL REMAIN AS CLOSE TO THE EDGE OF THE FIELD AS POSSIBLE. TOPSOIL WILL BE STRIPPED, AND THE AREA WILL BE GRAVELED. ALL BMPS OUTLINED IN SECTION 7.1 AND RESTORATION REQUIREMENTS IN SECTION 14.5 WILL BE FOLLOWED.
AGRICULTURAL LAND #4	61.00-1-29 AND 61.00-3-16.1	C-137	STA 50546+83 TO 50553+26	A VERY SMALL PORTION OF AN HDD WORK AREA IS WITHIN THE REGULATED AGRICULTURAL AREA. TEMPORARY ACCESS ROAD 5A-10-RD WILL UTILIZE TOPSOIL STRIPPING AND GRAVELLING. ALL BMPS OUTLINED IN SECTION 7.1 AND RESTORATION REQUIREMENTS IN SECTION 14.5 WILL BE FOLLOWED.
AGRICULTURAL LAND #5	72.00-3-41.51	C-144	STA 50647+60 TO 50667+64	THE TRENCH CONSTRUCTION WILL ONLY IMPACT THE EDGE OF THE AGRICULTURAL FIELD. SPLICE LOCATION 176 WILL REMAIN AS CLOSE TO THE EDGE OF THE FIELD AS POSSIBLE. THE ACCESS ROAD COMING INTO THIS PORTION WILL BE STRIPPED AND GRAVELED. ALL BMPS OUTLINED IN SECTION 7.1 AND RESTORATION REQUIREMENTS IN SECTION 14.5 WILL BE FOLLOWED.
AGRICULTURAL LAND #6	84.00-1-44.2 95.00-3-1.1	C-151 AND C-152	STA 50754+54 TO 50772+91	ALL TRENCHING OCCURS OUTSIDE THE REGULATED AGRICULTURAL AREA. SPLICE LOCATION 180 WILL REMAIN AS CLOSE TO THE EDGE OF THE FIELD AS POSSIBLE. ALL BMPS OUTLINED IN SECTION 7.1 AND RESTORATION REQUIREMENTS IN SECTION 14.5 WILL BE FOLLOWED.
AGRICULTURAL LAND #7	95.00-3-5 95.00-3-42	C-154	STA 50797+20 TO 50806+55	A TEMPORARY WORK AREA WILL BE THE ONLY IMPACT TO THE REGULATED AGRICULTURAL AREA AND WILL BE GRAVELED. SPLICE LOCATION 181 WILL REMAIN AS CLOSE TO THE EDGE OF THE FIELD AS POSSIBLE. ANY GRADING WILL FOLLOW ALL BMPS OUTLINED IN SECTION 7.1 AND RESTORATION REQUIREMENTS IN SECTION 14.5 WILL BE FOLLOWED.

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E	12/16/2022	FINAL SUBMISSION	BV	TK	
D	11/11/2022	DRAFT FINAL SUBMISSION	BV	TK	
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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM
EM-CP DATA TABLES

DRAWN BY:	AR	DESIGNED BY:	BV	APPROVED BY:	TK	SCALE	AS SHOWN	DATE	12/16/2022
						REV. NO.		SH.NO.	OF

KIEWIT PROJECT NO.
21162

DRAWING NO.
G-011

SEGMENT 8 – VEGETATION AND TREE CLEARING LOCATIONS

TABLE 8–4 VEGETATION AND TREE CLEARING LOCATIONS			
SHEET	LOCATION	CLEARING METHOD TYPE	ENVIRONMENTALLY SENSITIVE AREA(S)
	(APPROXIMATE –SEE APPENDIX C FOR DETAILS)		
C–101	STA 50000 TO 50007	TYPE I	NONE
C–102	STA 50022 TO 50030	TYPE I	NONE
C–103	STA 50030 TO 50041	TYPE IV	NONE
C–105	STA 50060 TO 50065	TYPE III	NONE
	STA 50069+50 TO 50075		
C–106	STA 50085 TO 50090	TYPE III	WETLAND
C–107	STA 50090	TYPE III	WETLAND (50090 TO 50090+50)
	STA 50095 TO 50101		
C–108	STA 50118+50	TYPE IV	NONE
C–109	STA 50122 TO 50135	TYPE IV	WETLAND
C–110	STA 50135 TO 50150	TYPE IV	WETLAND
C–111	STA 50153 TO 50165	TYPE I	WETLAND
C–112	STA 50165 TO 50180	TYPE IV	WETLAND
C–113	STA 50180 TO 50195	TYPE IV	WETLAND
C–114	STA 50195 TO 50210	TYPE IV	WETLAND (50198 TO 50200; 50204 TO 50205)
C–115	STA 50210 TO 50211	TYPE IV	NONE
C–116	STA 50233 TO 50240	TYPE IV	NONE
C–117	STA 50240 TO 50255	TYPE IV	WETLAND (50251; 50255)
C–118	STA 50255 TO 50269+50	TYPE I	WETLAND (50255 TO 50256; 50257+50 TO 50260+50)
C–119	STA 50270 TO 50285	TYPE IV	WETLAND (50271+50; 50278+50 TO 50280; 50282+50)
C–120	STA 50285 TO 50288	TYPE IV	AGRICULTURAL LAND UNTIL 50291
	STA 50292		WETLAND (50299+50 TO 50300)
	STA 50297+50 TO 50300		
C–121	STA 50300 TO 50302+50	TYPE IV	WETLAND (50300 TO 50302)
	STA 50307+50		
	STA 50310 TO 50315		
C–122	STA 50327 TO 50330	TYPE I	WETLAND (50328)
C–123	STA 50330 TO 50345	TYPE IV	WETLAND (50341 TO 50344+50)
C–124	STA 50345 TO 50360	TYPE IV	WETLAND (50351 TO 50353+50)
C–125	STA 50360 TO 50360+50	TYPE IV	WETLAND (50366+50 TO 50367+50; 50375+50)
	STA 50364 TO 50375		
C–126	STA 50375 TO 50379+50	TYPE IV	WETLAND (50379; 50384+50)
	STA 50384+50		
C–127	STA 50399 TO 50401	TYPE IV	WETLAND
C–128	STA 50409+50 TO 50410+50	TYPE I	WETLAND
C–129	STA 50422 TO 50435	TYPE I	NONE
C–130	STA 50435 TO 50443	TYPE I	NONE
C–131	STA 50461+50 TO 50465	TYPE I	NONE
C–132	STA 50465 TO 50480	TYPE IV	WETLAND
C–133	STA 50480 TO 50495	TYPE I	WETLAND
C–134	STA 50495 TO 50502	TYPE I	WETLAND/REGULATED ADJACENT AREA
	SITAR 50503+50 TO 50510		
C–135	STA 50510 TO 50525	TYPE I	AGRICULTURAL LAND (50514+57 TO 50521+83)
			WETLAND (50510 TO 50520+50; 50523 TO 50525)
C–136	STA 50525 TO 50540	TYPE IV	WETLAND (50525 TO 50527)
C–137	STA 50540 TO 50547	TYPE IV	AGRICULTURAL LAND (50546+83)
	STA 50551		
C–139	STA 50571+50	TYPE IV	NONE
	STA 50579		
C–140	STA 50588 TO 50591	TYPE IV	NONE
	STA 50594 TO 50600		
C–142	STA 50615 TO 50630	TYPE IV	NONE
C–143	STA 50630 TO 50645	TYPE IV	NONE
C–144	STA 50645 TO 50647+50	TYPE IV	WETLAND (50646 TO 50647+50)
	STA 50659 TO 50660		AGRICULTURAL LAND (50659)
C–145	STA 50660 TO 50667+50	TYPE IV	WETLAND (50665 TO 50667)
	STA 50672 TO 50675		AGRICULTURAL LAND (50665 TO 50667)
C–146	STA 50675 TO 50688	TYPE IV	WETLAND
C–147	STA 50700 TO 50705	TYPE IV	WETLAND

TABLE 8–4 VEGETATION AND TREE CLEARING LOCATIONS			
SHEET	LOCATION	CLEARING METHOD TYPE	ENVIRONMENTALLY SENSITIVE AREA(S)
C–148	STA 50705 TO 50720	TYPE IV	WETLAND
C–149	STA 50720 TO 50731	TYPE IV	WETLAND (50720 TO 50725)
	STA 50733 TO 50734		
C–150	STA 50736+50 TO 50738+50	TYPE I	WETLAND (50744 TO 50747+50)
	STA 50744 TO 50750		
C–151	STA 50750 TO 50765	TYPE IV	WETLAND (50763+50 TO 50765)
			AGRICULTURAL LAND (50754+54 TO 50765)
C–152	STA 50765 TO 50780	TYPE IV	WETLAND (50765 TO 50771; 50772 TO 50773; 50776 TO 50779)
			AGRICULTURAL LAND (50765 TO 50772+91)
C–153	STA 50787+50 TO 50795	TYPE IV	NONE
C–154	STA 50795 TO 50803+50	TYPE IV	WETLAND (50796 TO 50802)
	STA 50807 TO 50810		
C–155	STA 50810 TO 50811	TYPE IV	NONE
	STA 50823 TO 50825		
C–156	STA 50825 TO 50832	TYPE IV	NONE
C–157	STA 50841+50 TO 50855	TYPE IV	NONE
C–158	STA 50855 TO 50870	TYPE III	NONE
C–159	STA 50870 TO 50885	TYPE IV	NONE
C–160	STA 50885 TO 50900	TYPE IV	WETLAND (50898+50 TO 50900)

SEGMENT 8 – TREE AND VEGETATION DISPOSAL METHODS

TABLE 8.3 –TREE AND VEGETATION DISPOSAL METHODS		
METHOD TYPE	METHOD TITLE	METHOD DESCRIPTION
TYPE A	CONSTRUCTION USE	LOGS MAY BE UTILIZED AS NEEDED DURING CONSTRUCTION FOR WETLAND ACCESS, CRIBBING, RETAINING WALLS, OR OTHER USES. FOLLOWING USE, ANY LOGS UNSUITABLE FOR FIREWOOD, SAW LOGS, OR CHIPPING WILL BE TRANSPORTED OFF THE RIGHT–OF–WAY TO AN APPROVED DISPOSAL SITE.
TYPE B	LOG PILES	LOGS NOT NEEDED FOR CONSTRUCTION WILL BE REMOVED FROM THE RIGHT–OF–WAY TO AN APPROVED DISPOSAL AREA.
TYPE C	SALE	WHERE SUFFICIENT MERCHANTABLE VOLUME EXISTS ON THE SITE, LOGS MAY BE SOLD TO A THIRD PARTY. WHERE APPROPRIATE AND PRACTICAL, AND WITH THE AGREEMENT OF LANDOWNERS, UNSOLD LOGS WILL BE HAULED TO ACCESSIBLE LOCATIONS FOR SALVAGE BY THE GENERAL PUBLIC IN ACCORDANCE WITH THE SUBSTANTIVE REQUIREMENTS OF 6 NYCRR PART 192.5, FIREWOOD RESTRICTIONS TO PROTECT FORESTS FROM INVASIVE SPECIES.
TYPE D	TREE/LOG CHIPPING	WHEN LOGS CANNOT BE REUSED OR SOLD, THEY WILL BE CHIPPED ON SITE. THE RESULTING WOOD CHIPS WILL BE PILED IN UPLAND AREAS WITHIN THE RIGHT–OF–WAY OR TRANSPORTED OFF RIGHT–OF–WAY TO AN APPROVED DISPOSAL SITE. WOOD CHIPS WILL BE SPREAD THREE (3) TO FIVE (5) INCHES THICK WITH FERTILIZER SPREAD OVER THE CHIPS TO MINIMIZE SOIL NITROGEN DEPLETION DUE TO CELLULOSE DECOMPOSITION.
TYPE E	VEGETATION CHIPPING	VEGETATION MAY BE CHIPPED TO REDUCE DEBRIS VOLUME.
TYPE F	VEGETATION HAULING	VEGETATION AND STUMPS MAY BE HAULED TO A NYSDEC APPROVED LANDFILL OR OTHER SUITABLE OFF–SITE LOCATION WITH THE APPROVAL OF THE LANDOWNER AND ALL APPLICABLE PERMITTING AGENCIES.
TYPE G	VEGETATION BURIAL	STUMPS MAY BE BURIED ON THE RIGHT–OF–WAY WITH LANDOWNER AGREEMENT. THE BURIAL AREAS WILL BE SUFFICIENTLY COMPACTED AND MONITORED AFTER CONSTRUCTION TO ASSURE THAT SETTLING DOES NOT OCCUR. WHERE SIGNIFICANT SETTLING AFTER CONSTRUCTION HAS BEEN IDENTIFIED BY THE CONSTRUCTION INSPECTOR ET. AL., FINISHED GRADE WILL BE RE–ESTABLISHED USING LOCALLY OBTAINED RUN–OF–BANK MATERIAL AND/OR TOPSOIL AND RE–SEEDED AS APPROPRIATE AS SPECIFIED IN SECTIONS 14.2. AREAS WHERE SIGNIFICANT AMOUNTS OF STUMP BURIAL OCCURS WILL BE NOTED ON AS–BUILT DRAWINGS, AND MONITORED FOR SETTLING DURING ROW CONDITION SURVEYS AND MAINTENANCE ACTIVITIES.

NOTE:
1. NOTE: SECTION 8.4 OF THE EM&CP SUMMARIZES THE TREE AND VEGETATION DISPOSAL PROCEDURES FOR THIS SEGMENT. NO BURNING OF ANY VEGETATIVE OR TREE DEBRIS IS PERMITTED WITHIN THE WORK AREAS OF THIS SEGMENT. ALL APPLICABLE NYSDEC REGULATIONS REGARDING INVASIVE SPECIES WILL BE FOLLOWED WHEN DISPOSING OF VEGETATION.

TABLE 8–1. TERMS AND DEFINITIONS FROM BMP DOCUMENT SECTION 5.2	
TERM	DEFINITION
CLEARING	THE CUTTING AND PHYSICAL REMOVAL, EITHER BY HAND OR MECHANICAL MEANS, OF ALL VEGETATION FROM THE WORK AREA
GRUBBING	THE MECHANICAL REMOVAL OF THE STUMP AND ROOT MASS OF FELLED WOODY VEGETATION
SLASH	SHRUBS, SAPLINGS, AND TOPS OF TREES 4 INCHES IN DIAMETER OR LESS AT THE LARGE END FOR HARDWOOD AND 6 INCHES IN DIAMETER OR LESS AT THE LARGE END FOR SOFTWOODS.
STUMPS	THE WOODY STEM AND FIBROUS ROOT MASS LEFT IN THE SOIL AFTER REMOVING THE TRUNK AT THE BUTT.
TIMBER/LOGS	TRUNKS AND LIMBS GREATER THAN 6 INCHES IN DIAMETER AT THE SMALL END, WITH A MINIMUM 8–FOOT LENGTH.

SEGMENT 8 – RECREATIONAL AREAS

TABLE 7–2 RECREATIONAL AREAS			
MUNICIPALITY	RECREATIONAL AREA	SHEET	LOCATION (APPROXIMATE –SEE DRAWINGS FOR DETAILS)
VILLAGE OF VOORHEESVILLE	VOORHEESVILLE VILLAGE PARK	C–141	STA 50599 TO 50604

SEGMENT 8 – TREE AND VEGETATION CLEARING METHODS

TABLE 8.2 –TREE AND VEGETATION CLEARING METHODS		
METHOD TYPE	Method Title	METHOD DESCRIPTION
TYPE I	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 TEN (10) INCHES IN DIAMETER AT THE RATE OF SEVERAL ACRES A DAY, DEPENDING ON STEM DENSITY AND TERRAIN. IT IS ESSENTIALLY NONSELECTIVE AND A GOOD DEVICE FOR CLEARING RIGHTS–OF–WAY THAT ARE COMPOSED OF YOUNG UNDESIRABLE SPECIES IN A RELATIVELY UNIFORM STAND.
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.

NOTE: TABLE 8.4.1 SUMMARIZES THE LOCATION AND CLEARING TYPE THAT WILL OCCUR WITHIN THIS PACKAGE. SECTION 8.0 AND 8.1 OF THE EM&CP SUMMARIZES THE CLEARING METHODS AND PROCEDURES FOR VEGETATION AND TREE CLEARING AND REMOVAL INCLUDING STANDARDS AND SPECIFICATIONS FOR CLEARING IN ENVIRONMENTALLY SENSITIVE AREAS.
1. WETLANDS: SECTION 8.2.1 AND SECTION 9.1 OF THE EM&CP
2. STREAM CROSSING: SECTION 8.2.1 AND SECTION 9.1 OF THE EM&CP.
3. VISUALLY SENSITIVE AREAS SECTION 8.3.2 OF THE EM&CP
4. AGRICULTURAL LANDS: SECTION 8.2.2 OF THE EM&CP.

SEGMENT 8 – IMPACTS TO WATERBODIES

TABLE 9–1. SUMMARY OF WATERBODY IMPACTS								
APPROXIMATE STATION	WATER–BODY NAME	NYSDEC CLASSIFICATION	WATERBODY FIELD ID	FLOW STATUS	AVOIDANCE AND MINIMIZATION MEASURE	DISTANCE OF SEPARATION FROM CULVERT (FEET)	PERMANENT ROW IMPACT (LF)	TEMPORARY CONSTRUCTION ROW IMPACT (LF)
50282+90	NA	UNMAPPED	S6	INTERMITTENT			14.4	50.6
50667+00	NA	C/C	AA	INTERMITTENT			–	94.2
50601+50	VLY CREEK	C/C(T)	AG	PERENNIAL	HDD		–	–
50582+25	NA	UNMAPPED	AJ	INTERMITTENT	HDD		–	–
50580+00	NA	C/C	AL	INTERMITTENT	HDD		–	–
50746+00	NA	C/C	CS1	INTERMITTENT			40.3	145.5
50731+20	NA	C/C	CS2	INTERMITTENT	HDD		–	–
50717+50	NA	UNMAPPED	CS3	INTERMITTENT			27	97.1
50160+30	NA	C/C	CS33	INTERMITTENT			13.3	40.3
50160+30	NA	C/C	CS33	INTERMITTENT			13.8	38.5
50875+50	NA	UNMAPPED	EDR STA	PERENNIAL			–	–
50832+90	NA	C/C	EDR STB	PERENNIAL			–	–
50818+15	NA	C/C	EDR STC	PERENNIAL	HDD		–	–
50814+50	NA	UNMAPPED	EDR STD	PERENNIAL	HDD		–	–
50780+30	NA	C/C	EDR STE	PERENNIAL	HDD		–	–
50414+50	BLACK CREEK	C/C	G–R–S–A	PERENNIAL	HDD		–	–
50476+50	NA	UNMAPPED	G–R–S–B	INTERMITTENT			16.3	59.3
50487+80	NA	UNMAPPED	G–R–S–C	INTERMITTENT			–	–
50110+60	NA	UNMAPPED	G–R–S–D	INTERMITTENT	HDD		–	–
50125+50	NA	C/C(T)	G–R–S–E	PERENNIAL			37.6	163.9
50362+00	NORMANS KILL	B/B	NORMANS KILL	PERENNIAL	AVOIDED VIA BRIDGE ATTACH		–	–
50296+70	NA	C/C	P5–S1	INTERMITTENT	HDD		–	–
50294+15	NA	C/C	P5–S2	PERENNIAL	HDD		–	–
50270+20	NA	UNMAPPED	P5–S5	PERENNIAL	PARTIAL AVOIDANCE VIA HDD		38.2	3822.5
50321+50	NA	D/D	P5–SD	INTERMITTENT	HDD		–	–
50219+20	NA	C/C	S1	PERENNIAL	HDD		–	–
50014+00	POENTIC KILL	B/B	S1A	PERENNIAL	HDD		–	–
50225+35	NA	C/C	S2	INTERMITTENT	HDD		–	–
50230+25	NA	UNMAPPED	S3	INTERMITTENT	HDD		–	–
50251+10	NA	C/C	S4	INTERMITTENT			27	92.3
50270+50	NA	C/C	S5	PERENNIAL	CONTAINED IN CULVERT	9.92	–	–
50282+30	NA	UNMAPPED	S6	INTERMITTENT	CONTAINED IN CULVERT	6.52	–	–
50689+20	NA	UNMAPPED	T	INTERMITTENT	HDD		–	–
50676+00	NA	UNAMPPED	U	INTERMITTENT	PARTIAL AVOIDANCE VIA HDD		193.9	150.6
50676+00	NA	C/C	V	PERENNIAL	HDD		–	–
50692+25	NA	UNMAPPED	Y	INTERMITTENT	HDD		–	–
TOTAL							421.8 LF	4,754.8 LF

A

B



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

DRAWN BY:	AR	DESIGNED BY:	BV	APPROVED BY:	TK	SCALE	AS SHOWN	DATE	12/16/2022
						REV. NO.		SH.NO.	OF

KIEWIT PROJECT NO.	21162
DRAWING NO.	G-012

SEGMENT 8 – IMPACTS TO WETLANDS

Table 9–2 Summary of Wetland Impacts							
Wetland ID	Wetland Community Type	Drawing Approximate Station (Appendix C)	Jurisdiction	Permanent ROW Impacts (square feet)	Temporary Construction Impacts (square feet)	Temporary State Regulated Adjacent Area Impacts (square feet)	Permanent State Regulated Adjacent Area Impacts (square feet)
A–1	PEM	50897+00	USACE	685.6	9,626.40	–	–
AA	PEM	50397+00	USACE		2,553.50	–	–
CA	PEM	50503+00	USACE	20,105.00	35,401.30	–	–
CH	PEM	50145+00	USACE	1,267.30	10,460.50	–	–
CH	PSS	50145+00	USACE	960.2	16,330.50	–	–
CI	PEM	50160+00	USACE	905.6	2,361.60	–	–
CI	PSS	50160+00	USACE	1,485.60	3,153.50	–	–
CJ	PEM	50164+00	USACE	3,822.00	12,636.60	–	–
CK	PEM	50172+00	USACE	2,730.20	11,876.60	–	–
CK	PFO	50172+00	USACE	19,250.20	72,177.50	–	–
CK	PSS	50172+00	USACE	–	66.6	–	–
CM	PEM	50772+75	USACE & NYSDEC (C–5)	510.4	1,261.40	9,970.90	2,763.00
CN	PEM	50769+00	USACE & NYSDEC (C–5)	1,503.10	4,544.40	14,586.10	2,666.00
CO	PEM	50765+00	USACE		2,604.60	–	–
CP	PEM	50764+00	USACE & NYSDEC (C–5)	1,860.60	14,755.70	42,521.70	3,429.90
CQ	PEM	50761+00	USACE	–	2,822.50	–	–
CR	PEM	50742+00	USACE & NYSDEC (C–5)	3,667.90	18,203.90	54,902.70	4,278.00
CR	PFO	50742+00	USACE & NYSDEC (C–5)	1,082.20	5,346.90	–	–
CS	PEM	50700+00	USACE	12,154.00	52,402.90	–	–
CS	PFO	50700+00	USACE	11,501.70	36,773.50	–	–
DA	PEM	50523+00	USACE	5,299.40	15,918.90	–	–
EA	PEM	50554+00	USACE	–	–	–	–
EDR A	PEM	50889+50	USACE	–	–	–	–
EDR C	PEM	50867+00	USACE	–	–	–	–
EDR D	PSS	50862+00	USACE	–	–	–	–
EDR E	PEM	50861+00	USACE	–	–	–	–
EDR F	PEM	50841+00	USACE	–	–	–	–
EDR G	PEM	50834+50	USACE	–	–	–	–
EDR H	PFO	50800+00	USACE	1,753.50	3,223.90	–	–
EDR H	PSS	50800+00	USACE	567.2	705.6	–	–
EDR I	PFO	50796+00	USACE	869.8	20,935.50	–	–
EDR K	PEM	50777+00	USACE	–	–	–	–
EDR–L	PSS	50768+50	USACE	130.1	169	–	–
FA–AC	PEM	50646+00	USACE	3,289.10	4,459.40	–	–
FA–AK	PSS	50580+50	USACE	–	–	–	–
FA–AM	PSS	50579+00	USACE	–	–	–	–
FA–FN	PEM	50252+00	USACE	523.3	9,579.10	–	–
FA–FN	PSS	50252+00	USACE	1,343.20	8,037.60	–	–
FA–W	PEM	50676+50	USACE	–	–	–	–
FA–Z	PEM	50665+25	USACE	758.3	2,351.10	–	–
GCI	PFO	50159+00	USACE	–	386.8	–	–
GPI_99	PSS	50233+00	USACE	147.7	28,257.00	–	–
G–R–A	PEM	50468+00	USACE NYSDEC (V19)	28,307.70	78,668.20	–	–
G–R–A	PFO	50468+00	USACE NYSDEC (V19)	600.4	5,630.30	–	–
G–R–B	PFO	50069+00	USACE	–	–	–	–
G–R–C	PFO	50087+00	USACE	318.4	10,455.60	–	–
G–R–D	PEM	50103+00	USACE	–	–	–	–
G–R–D	PFO	50103+00	USACE	–	–	–	–
G–R–E	PSS	50122+00	USACE	12,503.90	41,964.90	–	–
G–R–F	PFO	50135+00	USACE	2,912.10	10,077.10	–	–
G–R–G	PFO	50139+00	USACE	7,214.00	40,360.50	–	–
L	PEM	50198+00	USACE	2,940.30	7,867.20	–	–
M	PSS	50203+50	USACE	1,364.20	5,332.20	–	–

Table 9–2 Summary of Wetland Impacts

Wetland ID	Wetland Community Type	Drawing Approximate Station (Appendix C)	Jurisdiction	Permanent ROW Impacts (square feet)	Temporary Construction Impacts (square feet)	Temporary State Regulated Adjacent Area Impacts (square feet)	Permanent State Regulated Adjacent Area Impacts (square feet)
N	PEM	50211+00	USACE	–	–	–	–
O	PEM	50230+00	USACE	–	–	–	–
P	PEM	50255+00	USACE	1,034.00	2,724.10	–	–
P5–A	PSS	50297+00	USACE	–	–	–	–
P5A–B	PFO	50830+00	USACE	267.1	10,051.70	–	–
P5–B	PEM	50294+30	USACE	–	–	–	–
P5–C	PEM	50895+00	USACE	–	193.8	–	–
P5–D	PSS	50314+00	USACE	–	3,533.70	–	–
P5–DB	PEM	50095+00	USACE	–	357.1	–	–
P5–E	PFO	50316+00	USACE	–	11,204.00	–	–
P5–F	PEM	50326+50	USACE	–	5,959.30	–	–
P5–G	PSS	50331+00	USACE	–	859.7	–	–
P5–H	PSS	50333+00	USACE	–	2,178.70	–	–
P5–I	PEM	50334+00	USACE	–	4,291.00	–	–
P5–J	PEM	50339+00	USACE	–	1,228.90	–	–
P5–K	PEM	50318+00	USACE	–	–	–	–
P5–L	PUB	50322+50	USACE	–	–	–	–
P5–M	PSS	50324+50	USACE	–	–	–	–
P5–O	PSS	50835+00	USACE	–	–	–	–
P5–Q	PEM	50306+50	USACE	–	–	–	–
P5–Q2	PEM	50336+00	USACE	–	1,842.70	–	–
P5–V	PEM	50132–30	USACE	–	812.5	–	–
P5–W	PFO	50146+65	USACE	–	–	–	–
P5–X	PEM	50207+00	USACE	1,680.50	2,692.30	–	–
P5–X	PFO	50207+00	USACE	–	24,353.10	–	–
P5–Y	PFO	50096+50	USACE	–	1,289.30	–	–
Q	PEM	50258+00	USACE	3,395.70	9,362.60	–	–
R	PEM	50278+00	USACE	1,864.90	5,150.60	–	–
S	PEM	50299+50	USACE	787.4	4,428.90	–	–
SKETCHED DETENTION BASIN	PUB	50421+00	USACE	–	1,610.70	–	–
T	PSS	50327+60	USACE	–	538.1	–	–
U	PFO	50343+00	USACE	–	9,093.90	–	–
V	PFO	50352+00	USACE	2,677.60	9,292.90	–	–
W	PEM	50366+50	USACE	463.4	4,680.00	–	–
X	PEM	50375+00	USACE	811.1	4,385.00	–	–
Y	PEM	50378+50	USACE	459.2	1,413.70	–	–
Z	PEM	50386+00	USACE	–	94.4	–	–
Z	PUB	50386+00	USACE	–	–	–	–
TOTAL				167,775.1 (3.9 ACRES)	733,363 (16.8 ACRES)	323,849.1 (7.4 ACRES)	30,167.4 (0.7 ACRES)
SUBTOTAL PEM				100,826 (2.31 ACRES)	349,972.7 (8.03 ACRES)	323,849.1 (7.4 ACRES)	30,167.4 (0.7 ACRES)
SUBTOTAL PSS				18,502.1 (0.42 ACRES)	111,127.1 (2.55 ACRES)	–	–
SUBTOTAL PFO				48,447 (1.11 ACRES)	270,652.5 (6.21 ACRES)	–	–
SUBTOTAL PUB				–	1,610.7 (0.04 ACRES)	–	–

NOTES:
ALL DELINEATED WETLANDS ARE ANTICIPATED TO BE FEDERALLY JURISDICTIONAL UNDER SECTION 404 OF THE CLEAN WATER ACT.

SEGMENT 10 – THREATENED AND ENDANGERED SPECIES

TABLE 9-3. RTE SPECIES IMPACT AVOIDANCE AND MINIMIZATION EFFORTS						
ESA TYPE	STA. START	STA. END	BMPS	CONTRACTOR ACTION	ENVIRONMENTAL INSPECTOR ACTIONS	TIME OF YEAR RESTRICTION
ESA 1	50217+50	50319+50	A) LOCATIONS OF NESTS WITHIN ONE–HALF (0.5) MILE OF CONSTRUCTION WILL BE IDENTIFIED. B) IF ANY BLASTING ACTIVITIES ARE NECESSARY WITHIN ONE–HALF (0.5) MILE OF ACTIVE NESTS, THE CERTIFICATE HOLDERS WILL CONTACT USFWS AND NYSDEC FOR GUIDANCE TO AVOID AND/OR MINIMIZE THE POTENTIAL FOR NOISE–RELATED DISTURBANCE; C) IF CONSTRUCTION WILL OCCUR WITHIN SIX HUNDRED AND SIXTY (660) FEET OF AN ACTIVE NEST DURING THE NEST–BUILDING OR BREEDING SEASON (JANUARY 1–SEPTEMBER 30), THE CERTIFICATE HOLDERS CONTACT USFWS AND NYSDEC FOR GUIDANCE TO AVOID AND/OR MINIMIZE THE POTENTIAL FOR NOISE–RELATED DISTURBANCE. D)ENVIRONMENTAL TRAINING FOR CONTRACTORS AND CONSTRUCTION CREWS WILL INCLUDE TRAINING ON THE IDENTIFICATION OF THE SPECIES AND LOCATION OF NESTS. CONSTRUCTION PERSONNEL WILL BE INSTRUCTED TO REPORT ANY SIGHTINGS OF POTENTIAL NESTS THAT WERE NOT PREVIOUSLY IDENTIFIED BY THE NYSDEC. E) IF ANY PREVIOUSLY UNIDENTIFIED NESTS ARE DISCOVERED, THE CERTIFICATE HOLDERS WILL REPORT FINDINGS TO THE NYSDEC AS SOON AS POSSIBLE AND CONSULT WITH THE NYSDEC AND USFWS FOR GUIDANCE TO AVOID AND/OR MINIMIZE THE POTENTIAL FOR DISTURBANCE.	1. ATTEND TRAINING PROVIDED BY ENVIRONMENTAL INSPECTOR ON THE IDENTIFICATION OF THE SPECIES AND THEIR NESTS.	1. LOCATION ANY NESTS WITHIN ONE–HALF (0.5) MILES OF CONSTRUCTION. 2. IF ANY BLASTING IS PLANNED TO OCCUR WITHIN ONE–HALF (0.5) MILES OF ACTIVE NESTS, CONTACT USFWS AND NYSDEC FOR GUIDANCE TO AVOID AND/OR MINIMIZE NOISE–RELATED DISTURBANCE. 3. CONTACT USFWS AND NYSDEC IF TIME OF YEAR RESTRICTION COMES INTO ACTION. 4. PROVIDE TRAINING FOR CONTRACTORS AND CONSTRUCTION CREWS AND INCLUDE TRAINING ON THE IDENTIFICATION OF THE SPECIES AND LOCATIONS OF NESTS THAT WERE NOT PREVIOUSLY IDENTIFIED BY THE NYSDEC. 5. REPORT ANY PREVIOUSLY UNIDENTIFIED NEST THAT IS DISCOVERED TO THE NYSDEC AS SOON AS POSSIBLE. CONSULT WITH USFWS AND NYSDEC FOR GUIDANCE ON HOW TO AVOID/MINIMIZE IMPACT.	IF CONSTRUCTION WILL OCCUR WITHIN SIX HUNDRED AND SIXTY (660) FEET OF AN ACTIVE NEST DURING THE NEST–BUILDING OR BREEDING SEASON (JANUARY 1–SEPTEMBER 30), THE ENVIRONMENTAL INSPECTOR WILL CONTACT USFWS AND NYSDEC FOR GUIDANCE TO AVOID AND/OR MINIMIZE THE POTENTIAL FOR NOISE–RELATED DISTURBANCE.
ESA 9	50000+00	50899+34	(A) CONDUCT TREE CLEARING BETWEEN OCTOBER 31 AND MARCH 31. TREE CLEARING IS NOT ALLOWED BETWEEN APRIL 1 AND OCTOBER 30. (B) DURING THE RECONSTRUCTION SURVEY, THE CONTRACTORS WOULD IDENTIFY LARGE LIVE OR DEAD TREES WITH PEELING BARK, INCLUDING LARGE SPECIMENS OF SHAGBARK HICKORY (CARYA OVATA), WITH THE POTENTIAL TO SERVE AS MATERNITY OR ROOST TREES AND THESE WOULD BE MARKED. POTENTIAL ROOST TREES IDENTIFIED WITHIN THE CONSTRUCTION LIMITS WOULD BE AVOIDED WHERE POSSIBLE DURING CONSTRUCTION ACTIVITIES.	1. TREES IDENTIFIED BY THE ENVIRONMENTAL INSPECTOR WILL BE AVOIDED WHERE POSSIBLE DURING CONSTRUCTION ACTIVITIES. 2. ALL TREE REMOVAL WILL FOLLOW TIME OF YEAR RESTRICTION.	1. IDENTIFY AND FLAG LARGE SPECIMEN TREES, LIVE OR DEAD, WITH PEELING BARK, INCLUDING SHAGBARK HICKORY (CARYA OVATA) WHICH COULD POTENTIALLY SERVE AS MATERNITY OR ROOST TREES.	TREE REMOVAL WILL BE CONDUCTED DURING THE WINTER MONTHS (OCTOBER 31–MARCH31). TREE CLEARING BETWEEN APRIL 1 – OCTOBER 30 IS PROHIBITED.

SEGMENT 8 – INVASIVE SPECIES

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

SEGMENT 8 – EM&CP NOISE SENSITIVE AREAS NOTE

NOTE:
THE NOISE RECEPTORS THAT MAY OCCUR NEAR SEGMENT 8 AT VARIOUS POINTS INCLUDE RESIDENCES AND BUSINESSES. SECTION 10.2 OF THE EM&CP DESCRIBES THE NOISE CONTROL MEASURES THAT WILL BE EMPLOYED THROUGHOUT THIS SEGMENT.



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E	12/16/2022	FINAL SUBMISSION	BV	TK	
D	11/11/2022	DRAFT FINAL SUBMISSION	BV	TK	
C	06/06/2022	60% DESIGN SUBMISSION	BV	TK	
B	02/11/2022	PRELIMINARY DESIGN DEVELOPMENT	BV	TK	
A	01/24/2022	PRELIMINARY PROGRESS	BV	TK	
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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM
EM-CP DATA TABLES

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G-013

KIEWIT PROJECT NO.
21162

DRAWING NO.

SEGMENT 8 – EM&CP CULTURAL RESOURCES

Table 11-1. Segment 8 Cultural Resources			
Cultural Resource Name	Location	Impact	Protection Measure
NYSM/LP 6479	Town of Rotterdam	HDD	Test or monitor.
NYSM/LP 6479	Town of Rotterdam	Splice location	Test or monitor.
NYSM 7330, Army Depot Vicinity (nearby)	Town of Rotterdam	HDDs and Splice locations	None.
Golub Late Archaic Site (09305.000255)	Town of Rotterdam	HDDs and Splice locations	Test or monitor.
NYSM 2780 (northern locus)	Town of Guilderland.	HDDs and Splice locations	Test or monitor.
NYSM 2780 (southern locus)	Town of Guilderland.	HDDs and Splice locations	Test or monitor.
Railroad Bridge (c. 1926)	Town of Guilderland	Bridge Attachment	Structure has not been inventoried by SHPO. Effects determination prior to initiating work at this location.
Coss High Bluff Isolated Find 1 Prehistoric Site (00106.0000405)	Town of Guilderland	HDDs and Splice locations	Test or monitor.
Coss High Bluff Prehistoric Site (00106.000407)	Town of Guilderland	Splice location	Test or monitor.
Prehistoric Site (00106.000113) and Black Creek Site–NYSM 346	Town of Guilderland	HDD	None.

SEGMENT 8 – ROAD AND HIGHWAY CROSSINGS AND CONSTRUCTION

TABLE 12-3: ROAD AND HIGHWAY CROSSINGS					
MUNICIPALITY	JURISDICTION	ROAD CROSSING	CROSSING METHOD (HDD OR OPEN TRENCH)	SHEET	LOCATION (APPROXIMATE, SEE APPENDIX C DRAWINGS FOR DETAILS)
ROTTERDAM	TOWN OF ROTTERDAM	PHILLIPS ROAD	HDD 71	C–101	STA 50010
ROTTERDAM	NYSDOT	BURDECK STREET	HDD 71	C–102	STA 50021
ROTTERDAM	NYSDOT	MARIAVILLE ROAD	HDD 72	C–103	STA 50044
ROTTERDAM	NYS THRUWAY AUTHORITY	DUANESBURG ROAD	HDD 73	C–105	STA 50067+50
ROTTERDAM	NYSDOT	I–90 THRUWAY	HDD 73.A AND 74	C–108	STA 50116
ROTTERDAM	NYSDOT	GUILDERLAND AVENUE	HDD 75	C–110	STA 50150
GUILDERLAND	TOWN OF GUILDERLAND	COUNTY LINE ROAD	TRENCH	C–113 AND C–114	STA 50195
GUILDERLAND	NYSDOT	WESTERN TURNPIKE (US ROUTE 20)	HDD 76 AND 76.A	C–121	STA 50309
GUILDERLAND	NYSDOT	STATE ROUTE 146	HDD 78	C–127	STA 50394+50
GUILDERLAND	ALBANY COUNTY	STONE ROAD	TRENCH	C–134	STA 50502
VOORHEESVILLE	ALBANY COUNTY	SOUTH MAIN STREET/CR 201	HDD 81	C–139 AND C–140	STA 50585
VOORHEESVILLE	NYSDOT	VOORHEESVILLE AVENUE	TRENCH	C–140	STA 50596+50
VOORHEESVILLE	NYSDOT	MAPLE ROAD	HDD 82 AND 83	C–141	STA 50609
NEW SCOTLAND	TOWN OF NEW SCOTLAND	YOUNG ROAD	TRENCH	C–145	STA 50668
NEW SCOTLAND	NYSDOT	NEW SCOTLAND ROAD	HDD 84	C–147	STA 50692+50
NEW SCOTLAND	ALBANY COUNTY	NEW SCOTLAND SOUTH ROAD	HDD 84.A	C–149	STA 50731+50
NEW SCOTLAND	TOWN OF NEW SCOTLAND	GAME FARM ROAD	HDD 84.B	C–152	STA 50780
NEW SCOTLAND	NYSDOT	DELAWARE TURNPIKE	HDD 85	C–155	STA 50811

SEGMENT 8 – NYSDOT COORDINATION

Table 12–2 –NYSDOT Coordination Summary		
Coordinating Parties	Description	Current Status
Certificate Holders, DPS Staff, NYSDOT	All plans and work to be performed in State–owned ROW under NYSDOT’s supervision and management.	Ongoing throughout
Certificate Holders, DPS Staff, NYSDOT staff	Certificate Holders shall provide DPS Staff and NYSDOT staff with a preliminary design marked to avoid conflict with potential transportation projects that NYSDOT Staff may seek to undertake in the future and shall offer to consult with NYSDOT Staff concerning any comments it may offer and shall use reasonable efforts to accommodate any NYSDOT concerns.	Prior to filing any Segment EM&CP involving any such state–owned ROW.
Certificate Holders, NYSDOT, Agency crossed by project	Certificate Holders will consult with each transportation department or agency having jurisdiction over any roads, related structures, and components that will be crossed by the Facility or used for direct access to the Construction Zone. If the access road takes direct access from, or lies within the limits of, such roads, the Certificate Holders will notify each relevant transportation department or agency of the approximate date when work will begin.	During preparation of the EM&CP and when work begins.
Certificate Holders, NYSDOT, DPS Staff, NYSDEC	The Certificate Holders will provide status reports summarizing construction and indicating construction activities and locations scheduled for the next month.	Bi–weekly.

SEGMENT 8 – CI COORDINATION

Table 13–1 – Co–located Infrastructure Consultation Summary					
Owner	Utility	Initial Contact Date	CI– Owner Response	Outreach Mailing #2	Outreach Mailing #3
City of Albany	Water	8/26/2022		NA	NA
			12" Minimum clearance, utilities in casing		
National Grid	Electric / Gas	8/22/2022	9/13/22: CI Packages, including relevant plans and documents, were submitted to National Grid	9/27/22: National Grid granted CHPE, LLC and its contractors project permission to survey and investigate property owned by National Grid	10/6/22: National Grid provided Engineering guidelines, Land use application check list, construction and maintenance procedures.
Time Warner	Fiber / Telephone	8/22/2022	Time Warner confirmed and denied facilities in the CI Packages provided to them. They took no exceptions	NA	NA
Lumen	Fiber / Telephone	8/22/2022	Lumen found no issues, stated they do not own facilities in the section through Selkirk Ny, and provided a KMZ of their facilities	NA	NA
Town of Rotterdam Water & Sewer	Sanitary / Storm / Water	8/22/2022			
City of Schenectady Water	Sanitary / Storm / Water	8/22/2022			
Sprint	Fiber / Telephone	8/22/2022			
CSX RR	Electric / Fiber	8/22/2022			
AT&T	Electric / Fiber	8/22/2022			
Verizon	Sanitary / Storm / Water	8/22/2022	No exceptions taken	NA	NA
Dominion (Now Berkshire Hathaway – Easter gas)	Gas	8/22/2022			
Telergy	Fiber	8/22/2022			
NYS Thruway	Fiber	8/22/2022	Requested additional HDD plans, which were provided on 9/28/22.		
			Awaiting feedback		
Elantic Telecom	Fiber	8/22/2022	10/14: Water mains must be protected during construction. Concern over damage to them and proximity to power lines and rail. believe that the water mains at each crossing should be replaced with new ductile iron water main installed in a casing pipe.		
Town of Guilderland	Sanitary / Storm / Water	8/22/2022			
NYSDOT	Electric / Fiber	8/22/2022			
Village of Voorheesville	Sanitary / Storm / Water	8/22/2022			
Town of Bethlehem	Sanitary / Storm / Water	8/22/2022			
Dominion Telecom	Fiber	8/22/2022			
Kinder Morgan	Gas	8/22/2022	9/15/22: Kinder Morgan requested specifications of the cable, asked about conduit and the voltage. Test pits requested.	10/6/22: Kinder Morgan provided developer handbook. Provides 24" of vertical separation.	
Private	Sanitary / Storm/ Water	8/22/2022			

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KIEWIT PROJECT NO.	21162
DRAWING NO.	G-114

SEGMENT 8 – RAILROAD CROSSINGS AND BRIDGE ATTACHMENT

TABLE 13–3 –RAILROAD CROSSINGS AND BRIDGE ATTACHMENT				
RAILROAD OWNER	CROSSING ID	CROSSING METHOD	SHEET	APPROXIMATE STATION LOCATION (SEE DRAWINGS FOR DETAILS)
NORTHFOLK SOUTHERN RAIL	RAIL CROSSING 1	HDD 71	C–101	STA 50013
CSX RAIL	RAIL CROSSING 2	HDD 71	C–102	STA 50015 TO 50020
CSX RAIL	RAIL CROSSING 3	HDD 76 AND 76.A	C–121	STA 50313
CSX RAIL	RAIL CROSSING 4	HDD 77	C–123	STA 50336
CSX RAIL	BRIDGE ATTACHMENT OVER NORMANS KILL	BRIDGE ATTACHMENT	C–124 AND C–125	STA 50360 TO 50364
CSX RAIL	RAIL CROSSING 5	HDD 80	C–131	STA 50457 TO 50459
CSX RAIL AND NORFOLK SOUTHERN RAIL	RAIL CROSSING 6	HDD 81	C–139 AND C–140	STA 50582 TO 50586
CSX RAIL	RAIL CROSSING 7	HDD 87	C–156	STA 50832 TO 50835

NOTES:
SECTION 13.2 OF THE EM&CP SUMMARIZES THE RAILROAD CROSSINGS THAT WILL OCCUR WITHIN THIS SEGMENT AS WELL AS THE MITIGATION MEASURES THAT WILL BE FOLLOWED AT EACH RAILROAD CROSSING. SECTION 13.3 OF THE EM&CP DESCRIBES THE UTILITY CROSSINGS THAT WILL OCCUR WITHIN THIS SEGMENT AS WELL AS THE MITIGATION MEASURES THAT WILL BE FOLLOWED FOR EACH TYPE OF UTILITY CROSSINGS.

SEGMENT 8 – RESTORATION METHODS AND NOTES

Table 14 --- Restoration Methods	
Land Use Description	Section of EM&CP
Construction Materials and Equipment Staging Locations and Temporary Access Roads	14.2.2
Pavement	14.2.2
Railway Ballast	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 14.0 OF THE EM&CP DESCRIBES THE CLEANUP STANDARDS AND PROCEDURES THAT WILL BE FOLLOWED THROUGHOUT THIS SEGMENT ONCE CONSTRUCTION IS COMPLETE. TABLE 14 SUMMARIZES THE APPROPRIATE SUBSECTION WITH SECTION 14 THAT INCLUDES THE RESTORATION PROCEDURE FOR EACH TYPE OF LAND USE.

CLEANUP AND RESTORATION NOTES

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

CLEANUP STANDARDS AND PRACTICES

FROM THE BMPS', CLEAN–UP, RESTORATION, AND REVEGETATION PROCEDURES WILL BE ONGOING DURING CONSTRUCTION AS EACH SEGMENT IS COMPLETED. DURING CONSTRUCTION, ROAD AND CONSTRUCTION ROWS WILL BE KEPT FREE OF DEBRIS AND DISCARDED MATERIAL TO THE GREATEST EXTENT POSSIBLE. AS CONSTRUCTION CONTINUES, EACH SECTION OF THE ROWS WILL BE THOROUGHLY CLEANED AFTER CONSTRUCTION IS COMPLETED ON THAT PARTICULAR SECTION. 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 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 MANAGEMENT PLAN IN APPENDIX L. HDD ENTRY AND EXIT PITS WILL BE BACKFILLED AND THE DISTURBED GROUND SURFACE WILL BE SIMILARLY GRADED. TRENCHES WILL BE BACKFILLED IN ACCORDANCE WITH THE MEASURES OUTLINED IN SECTION 4.4.7 OF THE EM&CP. THE CERTIFICATE HOLDER WILL BE RESPONSIBLE FOR WILL CHECKING ALL CULVERTS AND ASSURE THAT THEY ARE NOT CRUSHED OR BLOCKED DURING CONSTRUCTION AND RESTORATION OF THIS SEGMENT AND, IF A CULVERT IS BLOCKED OR CRUSHED, TAKE IMMEDIATE STEPS TO REPLACE OR REPAIR THE CULVERT IN ACCORDANCE WITH APPLICABLE STATE OR LOCAL STANDARDS.

SEEDING AND PLANTING

SEEDING OPERATIONS ACROSS THE 35–FOOT–WIDE CONSTRUCTION AND FACILITY ROWS 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. ALL SEED MIXES WILL BE FREE OF INVASIVE SPECIES. ALL SEED BAG TAGS (EITHER ORIGINAL OR SCANNED COPIES) WILL BE PROVIDED TO THE ENVIRONMENTAL INSPECTOR EITHER ORIGINAL TAGS OR SCANNED COPIES. 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 (SHEET G–020 OF BOTH SEGMENT 1 AND SEGMENT 2) 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 DESCRIBE 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.

IF REQUIRED, ALL TREES OVER TWO (2) INCHES IN DBH OR SHRUBS OVER FOUR (4) FEET IN HEIGHT THAT ARE DAMAGED OR DESTROYED BY ACTIVITIES DURING CONSTRUCTION, OPERATION, OR MAINTENANCE WITHIN ASSOCIATED URBAN, RESIDENTIAL OR LANDSCAPED AREAS, WILL BE REPLACED WITHIN THE FOLLOWING YEAR BY THE CERTIFICATE HOLDERS WITH THE EQUIVALENT TYPE OF TREES OR SHRUBS EXCEPT IF:
a) EQUIVALENT TYPE REPLACEMENT TREES OR SHRUBS WOULD INTERFERE WITH THE PROPER CLEARING, CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE PROJECT OR WOULD BE INCONSISTENT WITH STATE–INVASIVE SPECIES POLICY; OR
b) REPLACEMENT WOULD BE CONTRARY TO SOUND ROW MANAGEMENT PRACTICES, OR TO ANY APPROVED LONG–RANGE ROW MANAGEMENT PLAN APPLICABLE TO THE FACILITY OR ADJOINING ROW; OR
c) THE OWNER OF LAND WHERE THE DAMAGED OR DESTROYED TREES OR SHRUBS WERE LOCATED (OR OTHER RECORDED EASEMENT OR LICENSE HOLDERS WITH THE RIGHT TO CONTROL REPLACEMENT) DECLINES REPLACEMENT.

RESTORATION OF WATERBODIES

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

RESTORATION OF WETLANDS

THESE AREAS WILL BE RESTORED 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.

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

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

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

PLANT INSPECTION, GUARANTEE, AND MAINTENANCE

VEGETATION RESTORATION ALSO INCLUDES THE MAINTENANCE OF PLANTINGS FOR SPECIFIED TIME PERIODS AND THE REPLACEMENT OF UNSUCCESSFUL PLANTINGS. PRIOR TO PLANTING, THE ENVIRONMENTAL INSPECTOR WILL INSPECT ALL PLANTS IN CONTAINERS. PLANTINGS WILL BE PERFORMED BY A QUALIFIED LANDSCAPE OR NURSERY CONTRACTOR. THE ENVIRONMENTAL INSPECTOR WILL ALSO INSPECT ALL PLANTS AFTER COMPETITION OF PLANTING TO ENSURE PROPER PLANTING PROCEDURES AND THE CORRECT PLANT SPECIES WERE USED. ADDITIONALLY, THE ENVIRONMENTAL INSPECTOR WILL CONDUCT A FINAL INSPECTION OF ALL REVEGETATED AREAS AFTER THE END OF THE MONITORING PERIOD TO ENSURE FINAL STABILIZATION. ALL VEGETATION REPLACED WILL HAVE A MINIMUM TWO (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 SHEET.

RESTORATION OF RECREATIONAL AREAS

FOLLOWING CONSTRUCTION, THE CERTIFICATE HOLDERS WILL RESEED THE CONSTRUCTION AREA WITHIN RECREATIONAL AREAS 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 (STRIPPING, SIGNAGE, AUDIBLE ROADWAY DELINEATORS)

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

RESTORATION OF ROADWAY

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

RESTORATION OF ROADWAY SHOULDER

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

PAVEMENT RESTORATION

CURRENTLY, LIMITED RESTORATION NEEDS IN URBAN/RESIDENTIAL AREAS HAVE BEEN IDENTIFIED WITHIN THIS SEGMENT.

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

THE CERTIFICATE HOLDERS WILL CONSULT THE MUNICIPAL ROAD OR HIGHWAY DEPARTMENT AND/OR THE REGIONAL OFFICE OR COUNTY ENGINEER OF THE NYSDOT IN ORDER TO IDENTIFY AND INCORPORATE APPROPRIATE SPECIFICATIONS FOR CURB, SIDEWALK, OR STREET RESTORATION.

SEGMENT 8 – FEMA

NOTE:
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 8 – EM&CP EROSION AND SEDIMENT CONTROL NOTES

- THE STORMWATER POLLUTION PREVENTION PLAN INCLUDED IN APPENDIX G OF THE EM&CP DESCRIBES THE EROSION AND SEDIMENT CONTROLS THAT WILL BE FOLLOWED FOR THIS SEGMENT.
- THE EROSION AND SEDIMENT CONTROL PLANS CAN BE FOUND ON SHEETS C–400 TO SHEET C–430 FOR THIS SEGMENT.



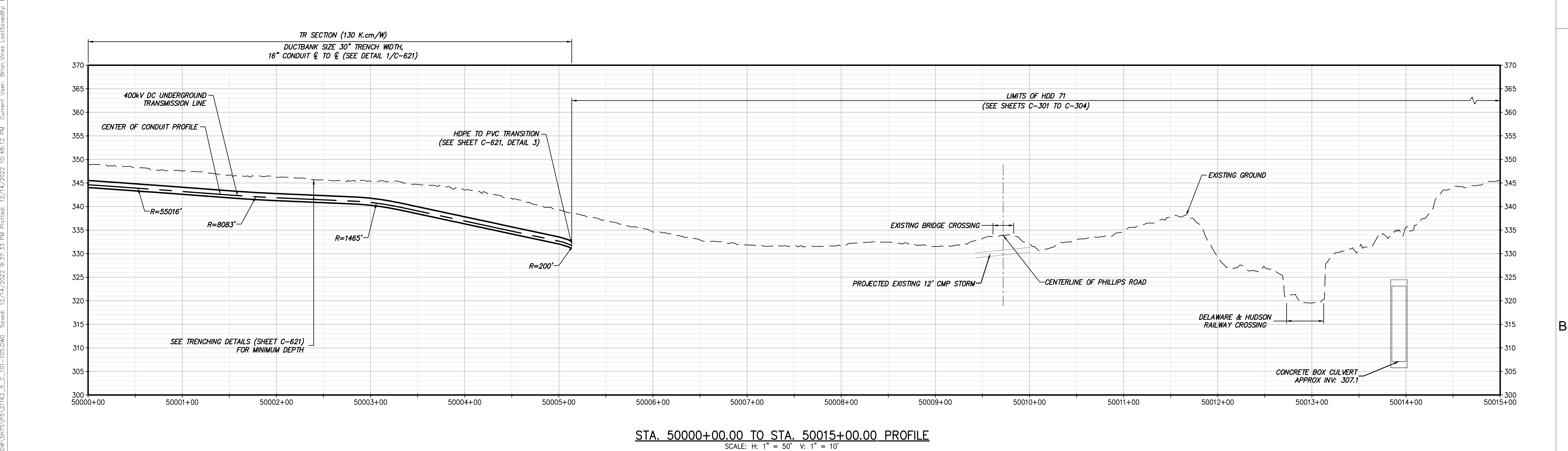
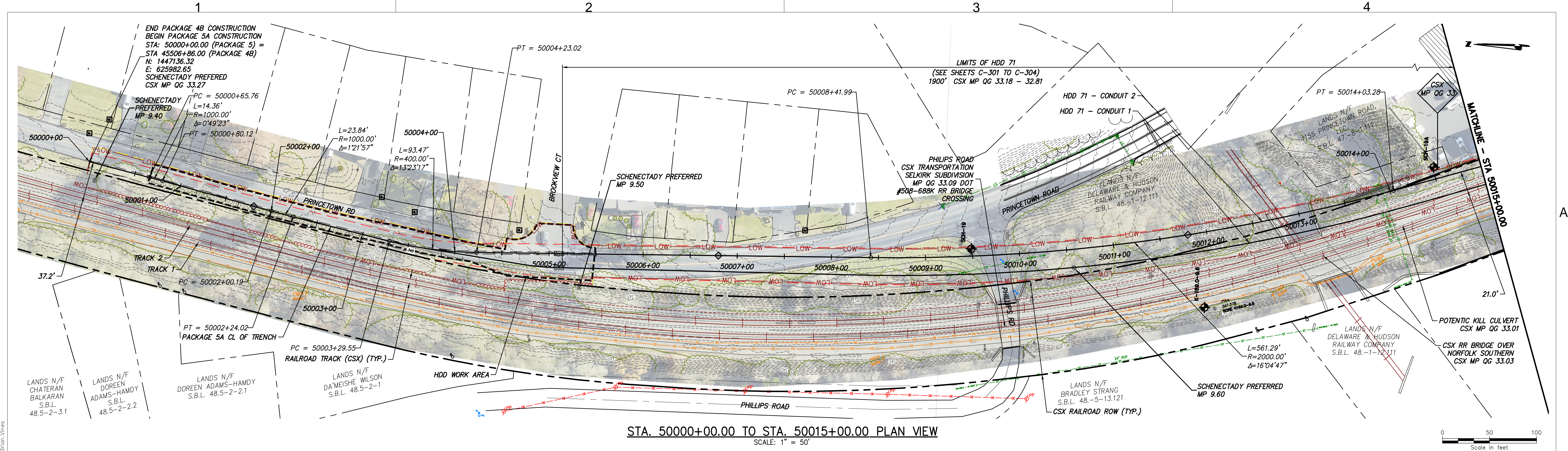
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E	12/16/2022	FINAL SUBMISSION	BV	TK	
D	11/11/2022	DRAFT FINAL SUBMISSION	BV	TK	
C	06/06/2022	60% DESIGN SUBMISSION	BV	TK	
B	02/11/2022	PRELIMINARY DESIGN DEVELOPMENT	BV	TK	
A	01/24/2022	PRELIMINARY PROGRESS	BV	TK	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

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

KIEWIT PROJECT NO. 21162				DRAWING NO.			
G-115							
DRAWN BY:	AR	DESIGNED BY:	BV	APPROVED BY:	TK	SCALE	AS SHOWN
REV. NO.				DATE 12/16/2022			
				E SH.NO. ---- OF			





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

STA. 50000+00.00 TO STA. 50015+00.00
HVDC CONDUIT PLAN AND PROFILE
(AND TEMPORARY ACCESS ROAD PLAN)

DRAWN BY: AR

DESIGNED BY: BV

APPROVED BY: TK

SCALE
REV. NO.

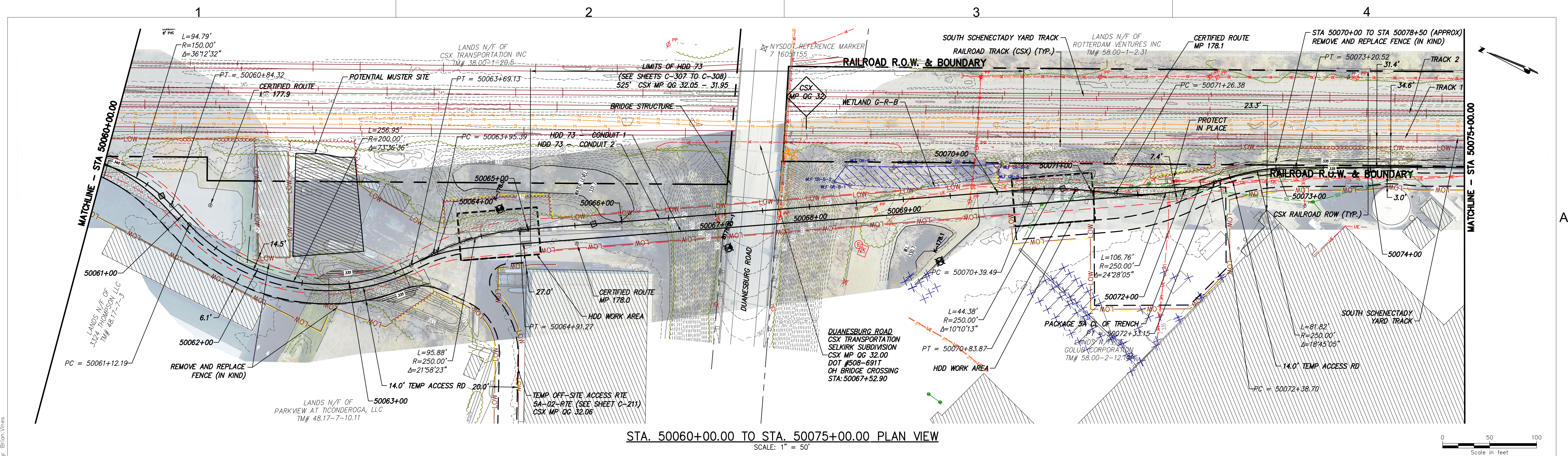
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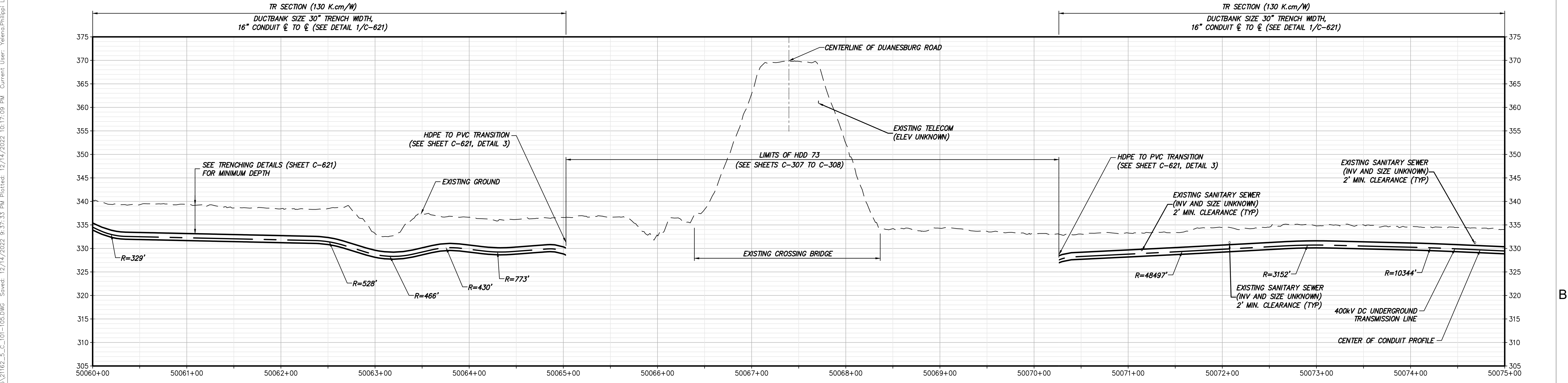
DRAWING NO.
C-101

DATE
12/16/2022



OF



STA. 50060+00.00 TO STA. 50075+00.00 PLAN VIEW
SCALE: 1" = 50'



STA. 50060+00.00 TO STA. 50075+00.00 PROFILE
SCALE: H: 1" = 50' V: 1" = 10'



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

STA. 50060+00.00 TO STA. 50075+00.00
HVDC CONDUIT PLAN AND PROFILE
(AND TEMPORARY ACCESS ROAD PLAN)

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APPROVED BY: TK

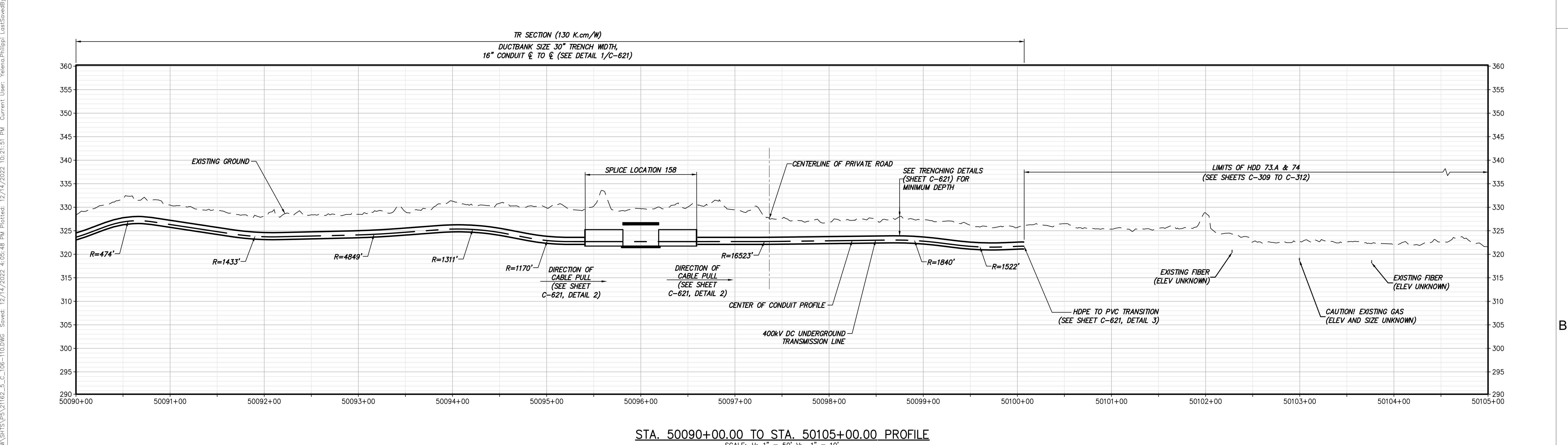
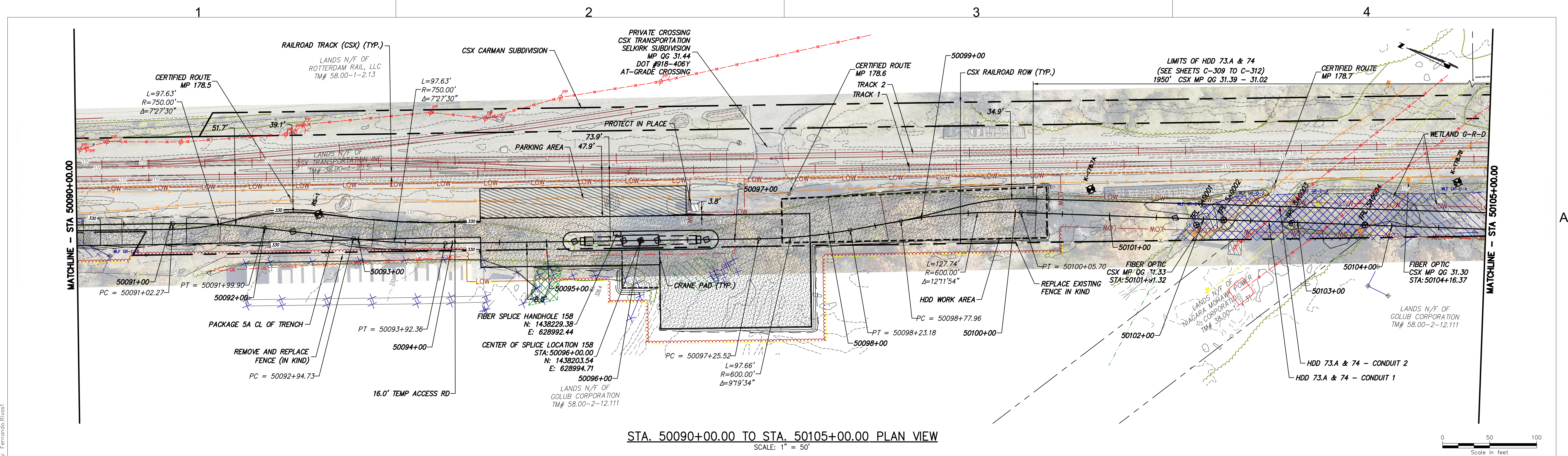
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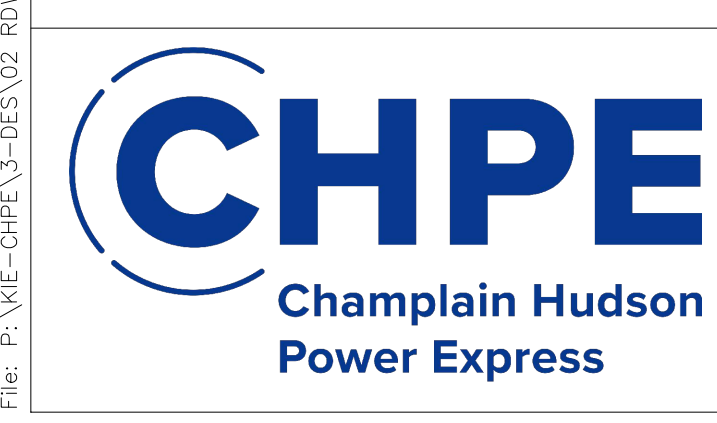
KIEWIT PROJECT NO.
21162

DRAWING NO.
C-105

DATE
12/16/2022

OF





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

STA. 50090+00.00 TO STA. 50105+00.00
HVDC CONDUIT PLAN AND PROFILE
(AND TEMPORARY ACCESS ROAD PLAN)

DRAWN BY: AR

DESIGNED BY: BV

APPROVED BY: TK

SCALE: AS SHOWN
REV. NO.

KIEWIT PROJECT NO.
21162

DRAWING NO.
C-107

DATE
12/16/2022

OF