

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

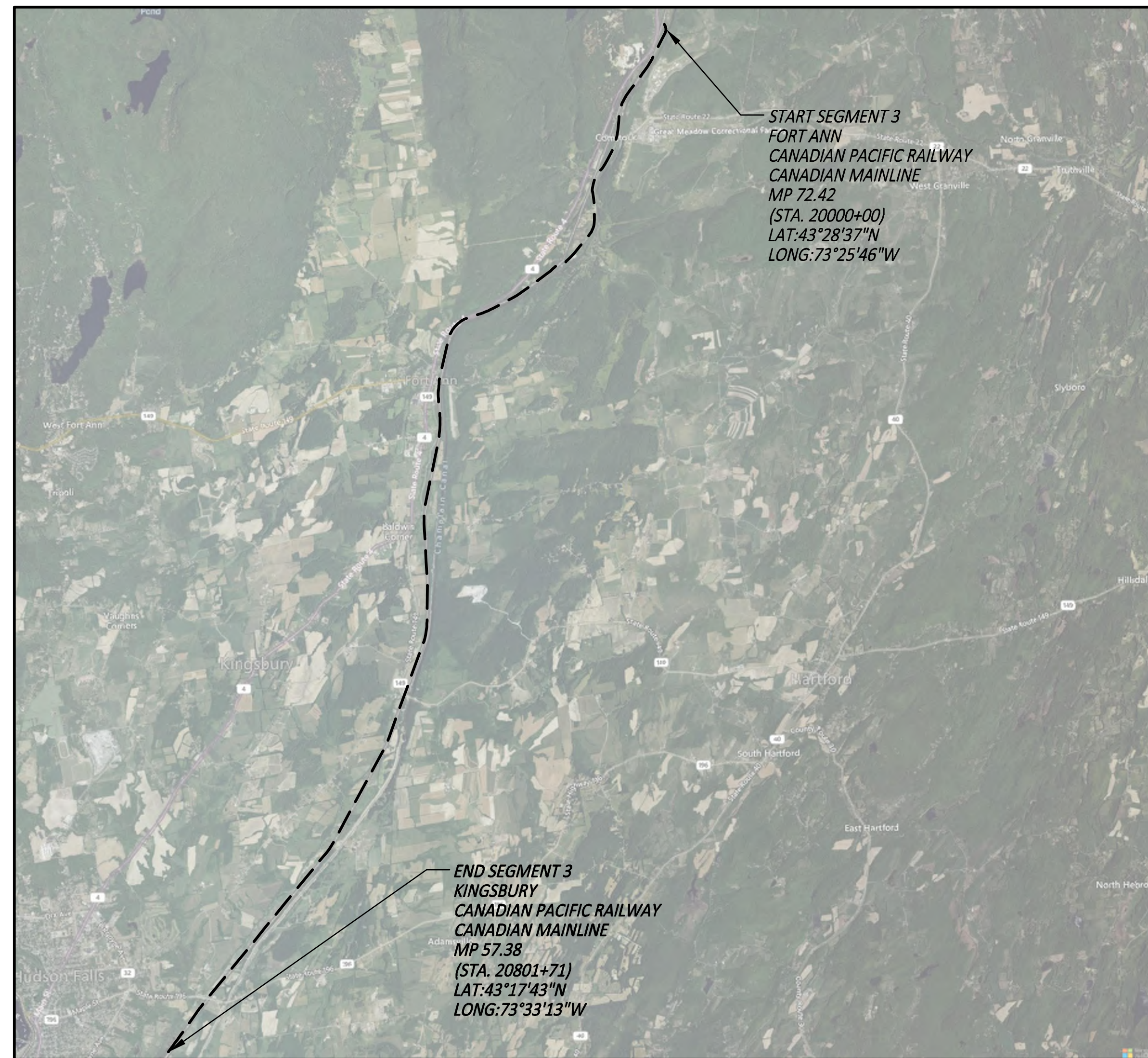
CHAMPLAIN HUDSON POWER EXPRESS

SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY

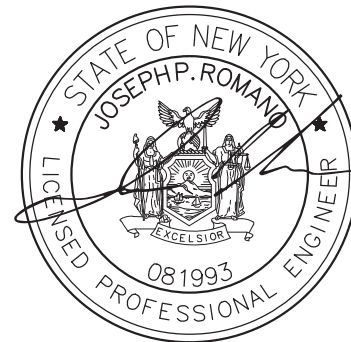
WASHINGTON COUNTY, NEW YORK

ISSUED FOR CONSTRUCTION SUBMISSION

(MARCH 22, 2023)



SITE LOCATION MAP
SCALE: 1" = 5000'



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0	03/22/2023	ISSUED FOR CONSTRUCTION SUBMISSION	JJE	JPR	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY COVER SHEET				KIEWIT PROJECT NO. 21162	
				CHA PROJECT NO. 066076	
				DRAWING NO. G-000	
				DATE 03/22/2023	
DRAWN BY:	JJE	DESIGNED BY:	JTM	APPROVED BY:	JPR
				SCALE REV. NO.	AS NOTED X

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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 CP AND AREMA REQUIREMENTS.
12.

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

MAINTAIN FLOW FOR ALL EXISTING UTILITIES.
14.

ALL FRAMES AND COVER TO BE SET AT ELEVATIONS CONSISTENT WITH THE PROJECT DETAILS.
15.

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

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

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

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

CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO EXISTING UTILITIES. UTILITIES DAMAGED BY CONTRACTOR SHALL BE IMMEDIATELY REPAIRED BY CONTRACTOR AT THE CONTRACTOR'S EXPENSE. IF DURING EXCAVATION PREVIOUSLY DAMAGED UTILITIES ARE UNCOVERED, CONTRACTOR SHALL FOLLOW SPECIFICATIONS AND PROVISIONS OF ANY EXECUTED AGREEMENT WITH UTILITY OWNERS AND OPERATORS.
20.

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

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

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

SERVICE CONNECTIONS TO BE FIELD LOCATED PRIOR TO CONSTRUCTION.
24.

REFER TO EM&CP DOCUMENT FOR ADDITIONAL ITEMS FOR ALL GENERAL NOTES.
25.

PVC/HDPE TRANSITION COUPLING LOCATION TO BE COORDINATED BETWEEN TRENCH AND HDD CONTRACTORS.

EROSION CONTROL NOTES

1.

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

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

THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND FOLLOW THE EM&CP DOCUMENTS DURING CONSTRUCTION OPERATIONS.
4.

NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED. (WETLAND PROTECTION FENCE, SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCE)
5.

SITE DISTURBANCE SHALL NOT EXCEED FIVE (5) ACRES OF SOIL AT ANY ONE TIME WITHOUT PRIOR WRITTEN AUTHORIZATION FROM NYSDEC DIVISION OF WATER.
6.

ALL EXPOSED AREAS SHALL BE SEEDED AND MULCHED AS SPECIFIED WITHIN 14 DAYS OF FINAL GRADING. FOR DISTURBED WETLAND AND SENSITIVE AREAS, AREA TO BE RESTORED IN ACCORDANCE WITH THE EM&CP SECTIONS 9.1 AND 14.
7.

INACTIVE PORTIONS OF THE SITE ARE TO BE SEEDED AND MULCHED AS SPECIFIED WITHIN 14 DAYS. FOR DISTURBED WETLAND AND SENSITIVE AREAS, AREA TO BE RESTORED IN ACCORDANCE WITH THE EM&CP 9.1 AND 14.
8.

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

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

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

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

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

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

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



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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
GENERAL NOTES

DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR SCALE AS NOTED
REV. NO. X

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	G-002
DATE	03/22/2023

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CANADIAN PACIFIC RAILWAY (CPR) NOTES:

- 1. THE DESIGN WITHIN THE RAILROAD RIGHT OF WAY INCORPORATES ASPECTS OF THE FOLLOWING STANDARDS:
 - 1.a. CANADIAN PACIFIC RAILWAY – UTILITY SPECIFICATIONS AND APPLICATION PROCESS (US) – [HTTPS://WWW.CPR.CA/EN/CHOOSE-RAIL-SITE/DOCUMENTS/CP-UTILITY-SPECS-AND-APPLICATION-PROCESS.PDF](https://www.cpr.ca/en/choose-rail-site/documents/cp-utility-specs-and-application-process.pdf)
 - 1.b. AMERICAN RAILWAY ENGINEERING AND MAINTENANCE ASSOCIATION (AREMA) MANUAL FOR RAILWAY ENGINEERING
 - 1.c. BNSF/UP GUIDELINES FOR TEMPORARY SHORING.
- 2. SEE ADJACENT CANADIAN PACIFIC RAILWAY (CPR) GENERAL CONSTRUCTION NOTES.

GENERAL HORIZONTAL DIRECTIONAL DRILLING NOTES:

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

CANADIAN PACIFIC RAILWAY (CPR) – GENERAL CONSTRUCTION NOTES

CONSTRUCTION REQUIREMENTS

1. LOCATES & UTILITIES

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

2. SETBACKS

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

3. CROSSING TRACKS

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

4. HOUSEKEEPING

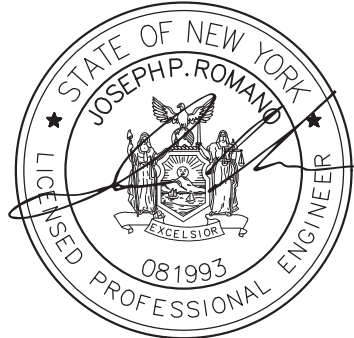
- a. THE PROJECT SITE MUST BE KEPT CLEAN AND TIDY. DEBRIS MUST BE PROMPTLY REMOVED.
- b. STORAGE OF MATERIALS ON RAILWAY PROPERTY IS PROHIBITED.
- c. POSITIVE DRAINAGE AWAY FROM THE TRACKS MUST BE MAINTAINED AT ALL TIMES.
- d. ALL SCAFFOLDING, FALSEWORK, FORMWORK, PROTECTIVE COVERINGS ETC. MUST BE SECURED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

5. WEATHER RESTRICTIONS

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

A

B



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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
PACKAGE SPECIFIC NOTES

DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR SCALE AS NOTED
REV. NO. X

KIEWIT PROJECT NO.	21162
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










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

























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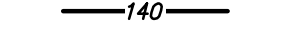
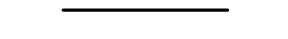







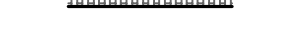
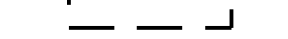











LEGEND & ABBREVIATIONS

	EXIST. FIBER OPTIC LINE HANDHOLE
	EXIST. FIBER OPTIC LINE PEDESTAL
	EXIST. FIBER OPTIC LINE DOGHOUSE
	EXIST. FIBER OPTIC LINE MANHOLE
	EXIST. FIBER OPTIC LINE VAULT
	EXIST. FIBER OPTIC LINE BORE PIT
	EXIST. FIBER OPTIC LOCK BOX
	EXIST. GROUND ROD
	EXIST. FIBER OPTIC MARKER POST
	EXIST. FIBER OPTIC BOX
	EXIST. FIBER STORAGE
	EXIST. FIRE HYDRANT
	EXIST. WATER VALVE
	EXIST. WATER MANHOLE
	EXIST. WATER MARKER
	EXIST. SANITARY SEWER MANHOLE
	EXIST. SANITARY SEWER VENT
	EXIST. STORM SEWER MANHOLE
	EXIST. STORM SEWER CATCH BASIN
	EXIST. CULVERT INVERT
	EXIST. GAS MANHOLE
	EXIST. GAS VALVE
	EXIST. GAS MARKER
	EXIST. GAS PIPELINE VENT
	EXIST. LIGHT POLE
	EXIST. UTILITY POLE
	EXIST. ELEC. POLE
	EXIST. TRAFFIC LIGHT
	EXIST. ELEC. METER
	EXIST. ELEC. MANHOLE
	EXIST. ELEC. TRANSFORMER
	EXIST. ELEC. VAULT
	EXIST. ELEC. HANDHOLE
	EXIST. ELEC. PEDESTAL/BOX
	EXIST. ELEC. MARKER POST
	EXIST. ELEC. GUY ANCHOR/WIRE
	EXIST. TELE. RISER/BOX
	EXIST. TELE. MANHOLE
	EXIST. TELE. HANDHOLE
	EXIST. TELE. VAULT
	EXIST. TELE. PEDESTAL
	EXIST. TELE. DOGHOUSE
	EXIST. TELE. MARKER POST
	EXIST. TELE. JUNCTION BOX
	EXIST. TRAFFIC SIGNAL BOX
	EXIST. CELL TOWER
	EXIST. CABLE BOX
	EXISTING MANHOLE UNKNOWN
	EXISTING UTILITY BOX UNKNOWN
	EXISTING ANTENNA
	EXISTING CAPPED IRON ROD
	EXISTING IRON PIPE
	EXISTING CONCRETE MONUMENT
	EXISTING POST
	EXISTING REFLECTOR MARKER
	EXISTING SYMBOL

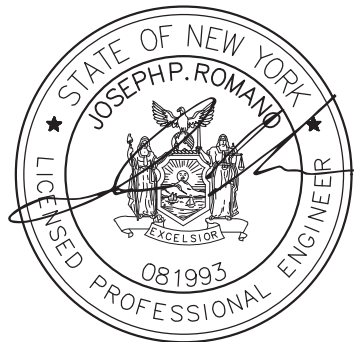
NOTES:

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

	EXISTING SIGN
	EXIST. STRUCTURE POST
	EXIST. STRUCTURE MAILBOX
	EXIST. GAS LINE
	EXIST. UNDERGROUND TELE.
	EXIST. FIBER OPTIC
	EXIST. OVERHEAD TELE.
	EXIST. UNDERGROUND ELEC.
	EXIST. OVERHEAD ELEC.
	EXIST. CULVERT
	EXIST. SANITARY SEWER
	EXIST. STORM SEWER
	EXIST. POTABLE WATER LINE
	EXIST. FUEL LINE
	EXIST. RAILROAD TRACK
	CERTIFIED ROUTE PROVIDED BY CHPE KMZ
	RANDALL PREFERRED PROVIDED BY CHPE KMZ
	EXIST. CONTOUR, INDEX
	EXIST. CONTOUR, DEPRESSION INDEX
	EXIST. CONTOUR, INTERMEDIATE
	EXIST. CONTOUR, DEPRESSION INTERMEDIATE
	EXIST. SPOT ELEVATION
	EXIST. LANDSCAPE / STORAGE AREA
	EXIST. NATURAL BOULDER
	EXIST. NATURAL SHRUB LINE
	EXIST. NATURAL TREE LINE
	EXIST. NATURAL SINGLE TREE/BUSH
	EXIST. STRUCTURAL BUILDING
	EXIST. PAVED DRIVE
	EXIST. PAVED ROAD
	EXIST. PAVED SHOULDER
	EXIST. PAVED SIDEWALK
	EXIST. GUARDRAIL
	EXIST. TRAIL
	EXIST. FENCE
	EXIST. WALL
	EXIST. RETAINING WALL
	EXIST. RIGHT-OF-WAY
	EXIST. ABUTTER

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

APP	APPROVED
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
DB	DESIGNED BY
DEC	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DEG	DEGREES
DR	DRIVE
DZ	DEVIATION ZONE
E	EASTING
ELECTRIC	ELECTRIC CABLE
ELEV	ELEVATION
EXIST	EXISTING
FIBER	FIBER OPTIC CABLE
FT	FEET
GAS	GAS PIPE
H	HORIZONTAL
HDD	HORIZONTAL DIRECTIONAL DRILLING
HVDC	HIGH-VOLTAGE DIRECT CURRENT TRANSMISSION LINE
INV	INVERT ELEVATION
LOW	LIMITS OF WORK
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
N	NORTHING
NO	NUMBER
NY	NEW YORK
P#	PACKAGE #
PERM	PERMANENT
PROP.	PROPOSED
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REV	REVISION
ROW	RIGHT-OF-WAY
RT	RIGHT
RTE	ROUTE
SEWER	SANITARY SEWER PIPE
SH	SHEET
ST	STREET
STA	STATION
STORM	STORM DRAIN PIPE
TELECOM	TELECOMMUNICATIONS CABLE
TEMP	TEMPORARY
TR	THERMAL RESISTIVITY
TYP	TYPICAL
V	VERTICAL
WATER	WATERLINE

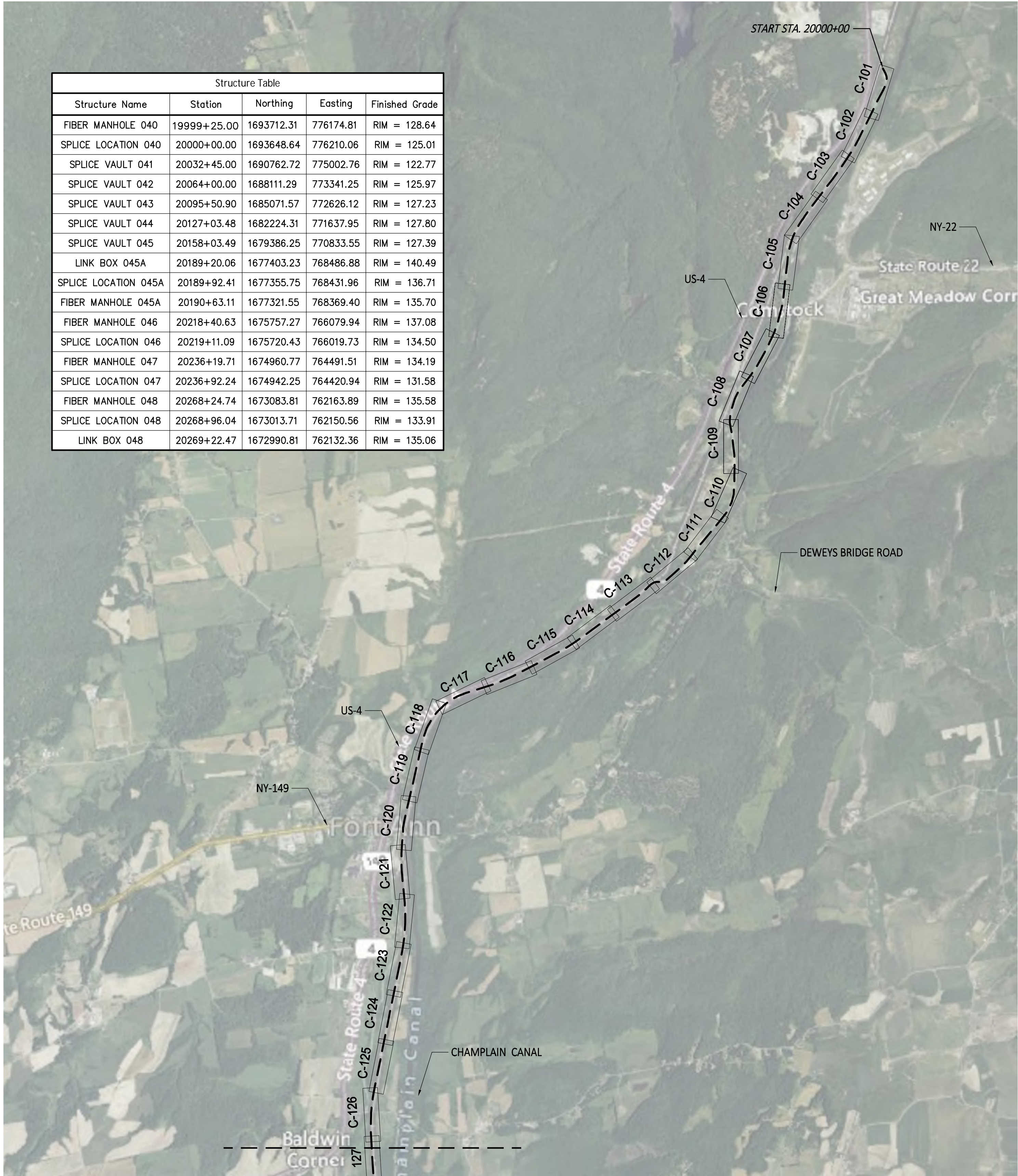


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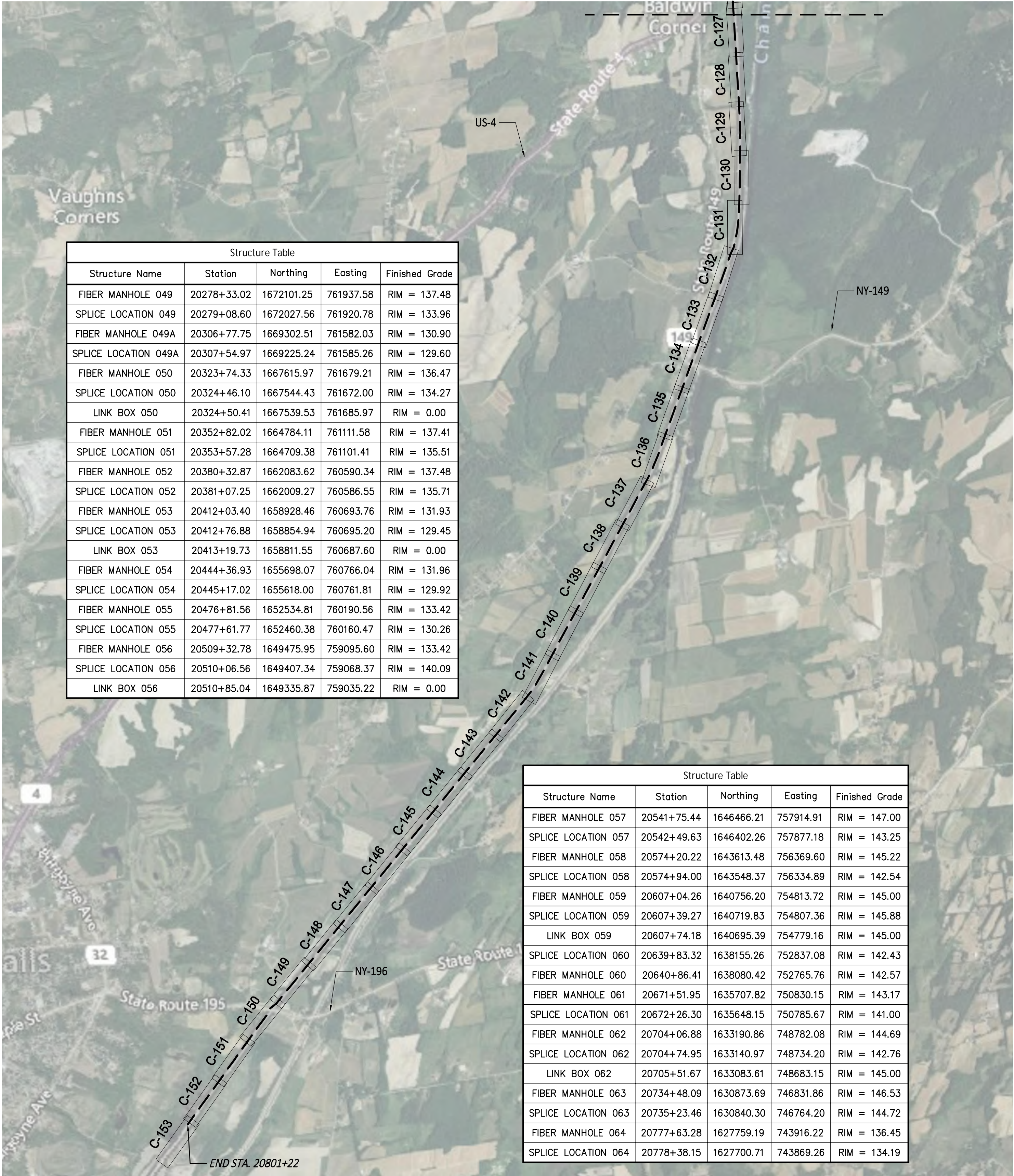
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
LEGEND AND ABBREVIATIONS

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	G-004
DATE	03/22/2023

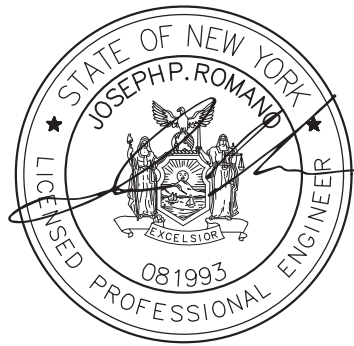
0	03/22/2023	ISSUED FOR CONSTRUCTION SUBMISSION	JJE	JPR				
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRAWN BY: JJE	DESIGNED BY: JTM	APPROVED BY: JPR	SCALE AS NOTED
							REV. NO.	X



PLAN AND PROFILE KEY MAP
SCALE: 1" = 4000'



PLAN AND PROFILE KEY MAP
SCALE: 1" = 4000'



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0	03/22/2023	ISSUED FOR CONSTRUCTION SUBMISSION	JJE	JPR	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
PLAN AND PROFILE KEYPLAN

DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR SCALE AS NOTED
REV. NO. X

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	G-005
DATE	03/22/2023

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 (CC68).	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 (CC69a).	During preparation of the EM&CP and when work begins.
Certificate Holders, NYSDOT, DPS Staff, NYSEDEC	The Certificate Holders will provide status reports summarizing construction and indicating construction activities and locations scheduled for the next month (CC47).	Bi-weekly.

Note: Table 12.2 describes the ongoing coordination with NYSDOT. Additional documentation of this consultation is included in Appendix A.

PACKAGE 2 – NYSDOT COORDINATION SUMMARY

Table 12.3 – Road and Highway Crossings and Parallel Construction

Segment/Package	Municipality	Jurisdiction	Description	Crossing Method	Sheet Number	Location (Approximate see Drawings for Details)
3/2	Town of Whitehall/Town of Fort Ann	Fort Ann	North Old Route 4 & South Old Route 4 ROW Construction	Parallel Construction (Trenching in ROW)	C-101 to C-112	20001+75 to 20178+00
3/2	Town of Fort Ann	Town of Fort Ann	North Old Route 4 ROW Construction	HDD#9	C-101	20005+00 to 20010+50
3/2	Town of Fort Ann	NYSDOT	Route 22 (NYSDOT road/highway) Crossing	HDD#10	C-106	20082+50
3/2	Fort Ann	Village of Fort Ann	Ann St & Railroad Crossing	HDD#14	C-120	20295+75
3/2	Kingsbury	Town of Kingsbury	Baldwin Corners Road Crossing	Open Trench	C-126	20382+50
3/2	Kingsbury	NYSDOT	Route 149 (NYSDOT road/highway) Crossing	HDD#16	C-134	20502+25
3/2	Kingsbury	Private Land Owner	Private Crossing	Open Trench	C-136	20537+10
3/2	Kingsbury	Town of Kingsbury	Towpath Road	Open Trench	C-136	20538+00
3/2	Kingsbury	Private Land Owner	Private Crossing	Open Trench	C-138	20563+60
3/2	Kingsbury	Private Land Owner	Private Crossing	Open Trench	C-139	20572+30
3/2	Kingsbury	Private Land Owner	Private Crossing	Open Trench	C-140	20597+25
3/2	Kingsbury	Town of Kingsbury	New Swamp Road	Open Trench	C-141	20613+40
3/2	Kingsbury	Private Land Owner	Private Crossing	Open Trench	C-143	20643+20
3/2	Kingsbury	Private Land Owner	Private Crossing	Open Trench	C-148	20714+50
3/2	Kingsbury	NYSDOT	Route 196 (NYSDOT road/highway) Crossing	HDD#20	C-150	20739+50
3/2	Kingsbury	Town of Kingsbury	Rabideau Lane Crossing	HDD#20	C-150	20740+25
3/2	Kingsbury	CP-Rail MP 58.37	Private Crossing	HDD#20	C-150	20746+50

Note: Table 12.3 describes the road and highway crossings within this Package. All road and highway crossings will follow the specifications in Section 4.4 and 12.2.

PACKAGE 2 – ROAD AND HIGHWAY CROSSINGS

Table 13.1 – Segment 3 - Package 2 Co-located Infrastructure Consultation Summary

Owner	Utility	Contact Dates	Agreement Status/	Notes
AT&T	Fiber/ Telephone	9/9/2021 1/27/2022 7/15/2022 3/24/2023	Agreement Anticipated following 3/24/23 submittal	Agreement Pending
Level 3 Communications (now Lumen Technologies)	Fiber	9/10/2021 1/27/2022 7/15/2022 3/24/2023	Agreement Anticipated following 3/24/23 submittal	Agreement Pending
National Grid/ East/ Electric	Electric	9/10/2021 1/27/2022	Consultation ongoing	Ongoing consultation including electrical effects study review, engineering review. Currently anticipate agreement in second quarter 2023.
Time Warner Cable (Charter Communications/Spectrum)	Fiber/CATV	9/23/2021 1/27/2022 7/15/2022	Agreement in place (07/18/22)	N/A
Verizon or Verizon/East	Telecom, Fiber/ Telephone	9/10/2021 1/27/2022 7/15/2022	Agreement in place (03/21/23)	N/A
Washington County	Route 4, Storm Sewers	5/31/21 Zoom Meeting 7/18/2022	N/A	Plans and profiles were submitted to Washington County for review on 7/18/22.
Village of Whitehall	Storm Sewer, Sanitary Sewer, Water Lines	10/7/2021 7/11/2022	N/A	Plans and profiles were submitted for review on 7/11/22. Coordination is on-going.
Town of Fort Ann	None	7/18/2022	N/A	Plans and profiles were submitted for review on 07/18/22. Coordination is on-going.
Town of Kingsbury	None	July 2022	N/A	Plans and profiles were submitted to Town of Kingsbury. Coordination is on-going.

PACKAGE 2 – CO-LOCATED INFRASTRUCTURE CONSULTATION SUMMARY

Table 13.2 - CP Railroad Crossings

Segment /Package	Crossing ID	Crossing Method	Sheet Number	Location (Approximate see Drawings for Details)
3/2	CP Rail MP 69.12-68.99	HDD #12	C-112 to C-113	20178+50 to 20187+75
3/2	CP Rail MP 66.97-66.85	HDD #14/Ann Street	C-120	20291+50 to 20300+00
3/2	CP Rail MP66.25 - 66.14	HDD #14A	C-123	20331+25 to 20338+75

Note: Table 13.2 describes the CP Railroad crossings within this Package. Access roads that cross the railroad are described in Table 4.6 and Section 4.10. Section 13.2 describes the procedures that will be followed for all railroad crossings.

PACKAGE 2 – CP RAILROAD CROSSING

Table 13.4 - Parallel Railroad Construction

Railroad Owner	Railroad Milepost	Approximate Location (See Drawings for Details)	Station (See Drawings for Details)
CP Rail	MP 69.12 – MP 65.15	20180+00 to 20389+00 (C-113 to C-126)	
CP Rail	MP 64.03 – MP 63.55	20449+00 to 20473+00 (C-130 to C-132)	
CP Rail	MP 63.17 – MP 58.66	20493+50 to 20733+00 (C-133 to C-149)	

Note: Table 13.4 describes the parallel railroad construction within this Package. Section 13.2 describes the procedures to be followed during all parallel railroad construction.

PACKAGE 2 – PARALLEL RAILROAD CONSTRUCTION

Table 13.3. Segment 3 CP Rail Coordination Summary

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

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

PACKAGE 2 – CP RAIL COORDINATION SUMMARY



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1	04/11/2023	REVISED PER DPS COMMENTS	JJE	JPR	
0	03/22/2023	ISSUED FOR CONSTRUCTION SUBMISSION	JJE	JPR	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
EM&CP DATA TABLES (4 OF 6)

DRAWN BY:	JJE	DESIGNED BY:	JTM	APPROVED BY:	JPR	SCALE	AS NOTED
						REV. NO.	X

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	068076
DRAWING NO.	G-014
DATE	03/22/2023

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Table 9.4 – Summary of Federal and State-Listed Species				
Status	ESA Type	Location	Best Management Practices	Impacts
Federal/State Endangered	ESA 4	Assumed to be roosting habitat located throughout the Project Corridor (P2: 20000+00 to 20796+50)	a) Conduct tree clearing and tree trimming activities between October 31 and March 31. Tree clearing and tree trimming activities are not allowed between April 1 and October 30. ⁶ b) During the preconstruction survey, the contractors would identify large live or dead trees with peeling bark, including large specimens of shagbark hickory (Carya ovata), with the potential to serve as maternity or roost trees and these would be marked. Potential roost trees identified within the construction limits would be avoided where possible during construction activities.	None
Federal/State Threatened	ESA 9	Assumed to be roosting habitat located throughout the Project Corridor (P2: 20000+00 to 20796+50)	a) Conduct tree clearing and tree trimming activities between October 31 and March 31. Tree clearing and tree trimming activities are not allowed between April 1 and October 30. ⁶ b) During the preconstruction survey, the contractors would identify large live or dead trees with peeling bark, including large specimens of shagbark hickory (Carya ovata), with the potential to serve as maternity or roost trees and these would be marked. Potential roost trees identified within the construction limits would be avoided where possible during construction activities.	None
Federal Candidate	ESC – Candidate Insect	Assumed to be habitat in various open areas located throughout the Project Corridor (P2: 20000+00 to 20796+50)	a) None proposed due to current status as a candidate species and no critical habitat identified by USFWS. Additionally, not listed as a State protected species.	None
Federal – MBTA, XX Protection Act, State-Threatened	ESA 1	NHP documented nesting within 0.5 mile of project alignment in Town of Glenville, Schenectady County (20457+00 to 20561+00)	a) Prior to construction, the Certificate Holders would identify all nest locations within 0.5 miles (0.8 kilometers [km]) of construction, based on data provided by the NYNHP. b) If any blasting activities are necessary within 0.5 miles (0.8 km) of active nests, the Certificate Holders would contact USFWS and NYSDEC for guidance to avoid or minimize the potential for noise-related disturbance. c) If construction would occur within 660 feet (201 meters) of an active nest during the nest-building or breeding season (December to August) per USFWS guidelines, the Certificate Holders would contact USFWS and NYSDEC for guidance to avoid and minimize the potential for noise-related disturbance. d) Environmental training for contractors and construction crews would include training on the identification of ESA 1 and location of nests. Construction personnel would be instructed to report any sightings of potential nests that were not previously identified by the NYNHP. e) If any previously unidentified nests are discovered, the Certificate Holders would report findings to the NYNHP as soon as possible, and consult with the NYSDEC and USFWS for guidance to avoid or minimize the potential for disturbance. if required.	None
State-Threatened	ESA 8	20680+00 to 20729+00	a) No suitable habitat within the Project Corridor. b) No Impacts Anticipated. c) NHP documented breeding along Dike Road about 150 yards from the alignment, northeast of Dunham Basin in the Town of Kingsbury.	
State-Endangered	ESA 12	N/A	a) No suitable habitat within the project corridor. b) No Impacts Anticipated. c) NHP documented wintering at the Fort Edward Grasslands. NHP mapped area extends to within 1/3 mile of the project alignment northeast of Dunham Basin in the Town of Kingsbury.	None
State-Threatened	ESA 14	20115+50 to 20120+00	a) Prior to construction, an exclusionary fence will be installed along the work area to prevent foraging ESA 14 individuals from entering the work area. The fence should be in place between March 31st and November 1st and left in place until work is completed within a given active construction area. All fencing should be removed upon completion and stabilization of construction areas. b) The Environmental Inspector will inspect the work area daily for the presence of ESA 14. If an ESA 14 is found within the work area, the Environmental Inspector will contact a licensed ESA 14 biologist to remove ESA 14 from the construction area prior to the start of work. c) Environmental training for Contractors and construction crews will include training on the identification of ESA 14. Construction personnel will be instructed to stop work immediately if a ESA 14 is found within the construction area. d) If any ESA 14 are discovered, the Certificate Holders and associated Contractors will report findings to the NYSDEC within 24 hours and consult with the NYSDEC for guidance to avoid and/or minimize the potential for disturbance.	None
State-Threatened	N/A - Fish	20473+00 to 20554+00	a) NHP documented in Champlain Canal at Smiths Basin and at Lock 9, both within 160 yards of the alignment. b) 100% avoidance anticipated.	None
Unlisted/Conservation Concern Rare	N/A - Fish	N/A	a) 100% avoidance. Documented in 2008 in unnamed water body approximately 0.6 miles south of Cornstock, between Route 4 and the railroad. Project alignment is along Old Route 4, east of the railroad and will not impact this water body.	None
Unlisted/Conservation Concern Rare	N/A - Insect	N/A	a) NHP documented in Champlain Canal @ Lock 11. b) 100% avoidance of aquatic larval stage.	None

Note: Table 9.3 identifies the federal and state listed species that may be encountered on or in the vicinity of this Package. Section 9.3 and Appendix T describe the habitat for these species and the procedures that will be followed to minimize the impact on these species. (6) In the event of an unanticipated emergency that requires tree clearing or tree trimming during April 1 to October 30, the procedures describe in Section 8.2 will be followed.

PACKAGE 2 – FEDERALLY LISTED AND STATE LISTED SPECIES

Table 9.5 – Aquatic Invasive Species	
Species Name (Scientific Name)	Location
purple loosestrife (<i>Lythrum salicaria</i>)	Wetland G-R-X (1PPPP - IIIII), 15111+50 to 15115+00
	Wetland G-R-U (I13 - 29), 15142+00 to 15172+00
	Wetland G-R-X (5 - 30), 15227+00 to 15280+75
	Wetland G-R-Y (1 - 11), 15282+00 to 15297+00
	Wetland C>NN (20049+00, C-402)
	Wetland C>O>O (20054+75, C-402)
	Wetland C>PP (20062+00, C-403)
	Wetland C>SS (20083+50, C-403)
	Wetland C>UU (20091+50, C-404)
	Wetland C>W>W (20093+75, C-404)
	Wetland C>B>Z (20141+00, C-405)
	Wetland C>CC (20146+50, C-405)
	Wetland G-R>AA (20225+50, C-408)
	Wetland G-R>BB (20231+00, C-408)
	Wetland G-R>DD (20240+50, C-409)
	Wetland G-R>E (20270+00, C-409)
	Wetland G-R>FF (20296+25, C-410)
	Wetland G-R>GG (20308+25, C-411)
	Wetland G-R>LL (20465+00, C-416)
	Wetland G-R>OO (20548+50, C-419)
common reed (<i>Phragmites australis</i>)	Wetland G-R>PP (20581+50, C-420)
	Wetland G-R>QQ (20609+25, C-421)
	Wetland G-R>RR (20613+50, C-421)
	Wetland G-R>SS (20757+25, C-426)
	Wetland G-R>S (3-15), 15084+00 to 15093+00
Narrow-leaf cattail (<i>Typha angustifolia</i>)	Wetland G-R>X (1PPPP - IIIII), 15111+50 to 15115+00
	Wetland C>J>J (5 - 9), 15305+50 - Const. Entrance
	Wetland C>J>J (20000+00, C-401)
	Wetland C>SS (20083+50, C-403)
Eurasian buckthorn (<i>Rhamnus cathartica</i>)	Wetland C>UU (20091+50, C-404)
	Wetland C>V>V (20088+75, C-403)
	Wetland C>Y>Y (20110+00, C-404)
	Wetland C>A>Z (20139+00, C-405)
Tatarian honeysuckle (<i>Lonicera tatarica</i>)	Wetland C>B>Z (20141+00, C-405)
	Wetland C>CC (20146+50, C-405)
	Wetland C>D>Z (20155+25, C-406)
	Wetland C>E>Z (20161+50, C-406)
	Wetland C>G>Z (20165+75, C-406)
	Wetland C>I>Z (20176+00, C-406)
	Wetland G-R>Z (20215+00, C-408)
	Wetland G-R>AA (20225+50, C-408)
	Wetland G-R>BB (20231+00, C-408)
	Wetland G-R>CC (20236+00, C-408)
	Wetland G-R>DD (20240+50, C-409)
	Wetland G-R>FF (20296+25, C-410)
	Wetland G-R>GG (20308+25, C-411)
	Wetland G-R>H>H (20376+50, C-413)
	Wetland G-R>I>I (20382+50, C-413)
	Wetland G-R>KK (20425+00, C-415)
	Wetland G-R>LL (20465+00, C-416)
	Wetland G-R>MM (20473+00, C-416)
	Wetland G-R>I>I (20382+50, C-413)
	Wetland G-R>KK (20425+00, C-415)
	Wetland G-R>LL (20465+00, C-416)
	Wetland G-R>MM (20473+00, C-416)
	Wetland G-R>NN (20503+50, C-417)
	Wetland G-R>PP (20581+50, C-420)
	Wetland G-R>QQ (20609+25, C-421)
	Wetland G-R>RR (20613+50, C-421)
	Wetland G-R>SS (20757+25, C-426)

Note: Table 9.4 identifies the locations of invasive aquatic plants that were identified within this Package. Section 9.3 describes the procedures to be followed to reduce the spread of invasive species.

PACKAGE 2 – AQUATIC INVASIVE SPECIES / LOCATION

Table 9.2 – Summary of Wetland Impacts						
Wetland ID	Jurisdiction	Drawing Sheet Number and Approximate Station	Wetland Community Type ⁽¹⁾	Permanent ROW Impacts (square feet)	Temporary Construction Impacts (square feet)	State Wetland Buffer Temporary Construction Impacts (square feet)
Old Route 4 – Package 2						
COOO	USACE	20062+50 to 20065+20 (C-105, C-403)	PSS	0	4070	0
CWWW	USACE	20094+80 to 20096+20 (C-107, C-404)	PFO	0	2842	0
CYYY	USACE	20116+50 to 20117+75; 20120+50 to 20121+75; 20125+75 to 20128+00 (C-108 to C-109); C-404 to C-405	PFO	0	3220	0
CBZ	USACE	20157+25 to 20158+50 (C-111, C-406)	PFO	0	1024	53105 ft ² (STA 20140+40 to 20158+50) & 11823 ft ² (STA 20165+00 to 20170+10)
CA	USACE	20176+20 to 20177+00; 20177+50 to 20178+50 (C-112, C-406)	PFO	264	796	51856 ft ² (STA 20172+00 to 20178+70)
CHZ	USACE	20178+50 to 20183+25 (C-112 to C-113; C-406 to C-407)	PFO	0	0	0
CP Rail – Package 2						
G-R-Z	USACE	20217+00 to 20219+00 (C-115; C-408)	PFO	0	5375	0
G-R>CC	USACE	20236+00 to 20238+50 (C-116; C-408)	PFO	0	3201	0
G-R>DD	USACE	20245+50 to 20249+30 (C-117; C-409)	PFO	2535	6507	0
G-R>EE/P2-EE	USACE	20276+75 to 20280+70 (C-119; C-410)	PFO	0	13151	0
G-R>FF	USACE	20296+50 to 20300+10 (C-121; C-410)	PEM	930	3,957	0
G-R>GG	USACE	20308+60 to 20318+00; 20327+50 to 20332+75 (C-121 to C-123; C-411 to C-412)	PFO	0	1836	0
			PEM	0	0	0
CC	USACE	20339+00 to 20340+50; 20351+50 to 20358+00 (C-123 to C-124; C-412)	PFO	5,660	21,396	0
			PEM	0	22,680	0
WLF>P2>H	USACE	20358+00 (C-206)	PEM	0	1,358	0
CD	USACE	20383+00 to 20421+20 (C-126 to C-129; C-413 to C-415)	PFO	6,220	14,124	0
			PSS	34,938	86,546	0
WLF>CE	USACE	20432+00 to 20437+00 (C-415)	PEM	7,912	14,646	0
WLF>CF	USACE	20438+70 to 20444+80 (C-415)	PEM	4,175	11,132	0
WLF>CG	USACE	20446+40 to 20447+30 (C-415)	PEM	502	2,632	0
WLF>CH	USACE	20451+70 to 20465+30 (C-416)	PEM	12,829	44,894	0
WLF>P2	USACE	20465+30 to 20466+60 (C-416)	PSS	1114	750	0
G-R>MM	USACE	20473+31 to 20495+00 (C-416 to C-417)	PSS	26,211	52,184	0
			PSS	0	4,993	0
G-R>NN/P2>J	USACE	20505+00 to 20536+50 (C-417 to C-418)	PEM	22,369	78,091	0
G-R>OO	USACE	20551+30 to 20553+00 (C-419)	PEM	4,540	0	0

G-R>OO	USACE	20574+00 to 20577+00 (C-420)	PEM	0	23082	0
G-R>PP	USACE	20587+50 to 20590+40 (C-420)	PSS	0	8960	
			PEM	2,508	5,893	0
G-R>RR	USACE, NYDEC (HF-10)	20614+50 to 20615+00; 20638+50 to 20675+75; 20694+75 to 20697+40; 20702+40 to 20708+50; 20715+75 to 20718+00; 20733+25 to 20738+00 (C-421 to C-425)	PEM	71,330	143371	337188 ft ² (STA 20614+50 to 20735+00) & 2619 ft ² (STA 20674+00 to 20675+00) & 3992 ft ² (STA 20707+00 to 20708+00)
G-R>SS	USACE	20750+50 to 20757+50; 20758+00 to 20781+70 (C-426 to C-427)	PEM	8669	32418	0
			PSS	1969	2660	0
GRP>EE	USACE	C-214 to C-217 Township Road	PUB	0	25457	0
Total by Wetland Community Type			PEM	135,764 ft ²	384,154 ft ²	460583 sq ft 10.57 ac
				3.1 ac	8.82 ac	
			PSS	64,232 ft ²	73,617 ft ²	
			PUB	1.47 ac	1.69 ac	
			PFO	0 ft ²	25457 ft ²	
Total				0 ac	0.58 ac	
				14,679 ft ²	73,472 ft ²	
				0.34 ac	1.69 ac	
				177,386 ft ²	442,518 ft ²	
				4.07 ac	10.16 ac	

Note: (1) PEM – Palustrine emergent, PSS – Palustrine scrub-shrub, PFO – Palustrine forested. Table 9.2 describes the location and impact for each wetland within this Package. All construction related activity will follow the procedures described in Section 9.1.

PACKAGE 2 IMPACTS TO WETLANDS AND WATERBODIES



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.

0	03/22/2023	ISSUED FOR CONSTRUCTION SUBMISSION					JJE	JPR	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION					DB	APP	

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
EM&CP DATA TABLES (5 OF 6)

DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR SCALE AS NOTED
REV. NO. X

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	G-015
DATE	03/22/2023

File: V:\PROJECTS\ANY\6\06076_P2 - G-011 COPY.DWG Saved: 3/17/2023 9:00:02 AM Plotted: 3/17/2023 9:40:14 AM Current User: Bouillon, Hugo LastSavedBy: 7895

Co-located Utilities			
Utility Type Underground (UG) Overhead (OH)	Parallel or Perpendicular to the Alignment	Location (Approximate - See Drawings for Details)	
		Station - Starting Point for Parallel and Crossing Point for Perpendicular	Station - Ending Point for Parallel
OH Utility (Electric)	Perpendicular	20004+05	N/A
OH Utility (Fiber)	Perpendicular	20004+00	N/A
UG Utility (Telephone)	Parallel	20006+75	20023+00
Storm Drainage Pipe/Culvert	Perpendicular	20007+75	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20014+80	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20022+70	N/A
OH Utility (Electric)	Perpendicular	20022+98	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20026+70	N/A
OH Utility (Electric)	Parallel	20004+00	20048+25
OH Utility (Electric)	Perpendicular	20028+41	N/A
OH Utility (Electric)	Perpendicular	20030+71	N/A
OH Utility (Electric)	Parallel	20031+70	20033+10
OH Utility (Electric)	Perpendicular	20038+94	N/A
OH Utility (Telephone)	Perpendicular	20038+95	N/A
OH Utility (Electric)	Perpendicular	20047+61	N/A
OH Utility (Electric)	Parallel	20052+00	20056+00
OH Utility (Electric)	Perpendicular	20059+83	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20072+65	N/A
Unknown Utility	Perpendicular	20073+00	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20080+75	N/A
OH Utility (Electric)	Perpendicular	20081+58	N/A
Water Line	Perpendicular	20082+50	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20082+86	N/A
Unknown Utility	Perpendicular	20083+00	N/A
OH Utility (Electric)	Perpendicular	20091+38	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20106+52	N/A
OH Utility (Electric)	Perpendicular	20106+95	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20112+00	N/A
OH Utility (Electric)	Perpendicular	20120+00	N/A
OH Utility (Electric)	Perpendicular	20131+15	N/A
OH Utility (Electric)	Perpendicular	20133+95	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20134+25	N/A
UG Utility (Telephone)	Parallel	20136+50	20175+00
OH Utility (Electric)	Perpendicular	20138+60	N/A
OH Utility (Electric)	Perpendicular	20139+25	N/A
OH Utility (Electric)	Perpendicular	20146+25	N/A
OH Utility (Electric)	Perpendicular	20158+65	N/A
OH Utility (Electric)	Perpendicular	20161+55	N/A
UG Utility (Telephone)	Perpendicular	20162+10	N/A
UG Utility (Telephone)	Parallel	20162+10	20171+40
OH Utility (Electric)	Perpendicular	20163+60	N/A
OH Utility (Telephone)	Perpendicular	20167+50	N/A
Unknown Utility	Perpendicular	20170+40	N/A
UG Utility (Telephone)	Perpendicular	20171+40	N/A
UG Utility (Fiber)	Parallel	20180+00	20796+92
UG Utility (Telephone)	Parallel	20180+00	20773+30
UG Utility (Fiber)	Perpendicular	20184+00	N/A
UG Utility (Fiber)	Perpendicular	20185+50	N/A
OH Utility (Electric)	Perpendicular	20195+48	N/A
UG Utility (Electric)	Perpendicular	20200+90	N/A
OH Utility (Electric)	Perpendicular	20201+50	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20203+20	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20217+20	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20225+93	N/A
UG Utility (Fiber)	Parallel	20254+50	20257+00
Storm Drainage Pipe/Culvert	Perpendicular	20255+75	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20285+20	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20285+60	N/A
UG Utility (Fiber)	Parallel	20285+00	N/A
UG Utility (Fiber)	Perpendicular	20294+95	N/A
OH Utility (Electric)	Perpendicular	20295+30	N/A
UG Utility (Electric)	Perpendicular	20295+45	N/A
Storm Sewer	Parallel	20296+00	N/A
UG Utility (Electric)	Perpendicular	20296+15	N/A
UG Utility (Electric)	Parallel	20297+00	20312+80

UG Utility (Fiber)	Perpendicular	20297+00	N/A
UG Utility (Electric)	Perpendicular	20297+70	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20301+75	N/A
UG Utility (Electric)	Parallel	20305+00	20314+00
Water Line	Parallel	20315+00	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20316+90	N/A
Water Line	Parallel	20330+00	N/A
UG Utility (Fiber)	Perpendicular	20333+00	N/A
UG Utility (Fiber)	Perpendicular	20335+00	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20345+75	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20351+10	N/A
UG Utility (Fiber)	Parallel	20375+00	N/A
OH Utility (Electric)	Perpendicular	20382+48	N/A
OH Utility (Electric)	Perpendicular	20383+00	N/A
UG Utility (Electric)	Perpendicular	20383+25	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20391+10	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20421+25	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20425+75	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20436+20	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20446+75	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20451+60	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20473+70	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20489+90	N/A
UG Utility (Fiber)	Parallel	20494+50	20735+30
Storm Drainage Pipe/Culvert	Perpendicular	20501+90	N/A
OH Utility (Electric)	Perpendicular	20502+65	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20520+70	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20534+50	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20548+70	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20588+30	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20614+10	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20651+10	N/A
OH Utility (Electric)	Perpendicular	20653+60	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20699+60	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20716+40	N/A
OH Utility (Electric)	Perpendicular	20739+10	N/A
Oh Utility (Electric)	Perpendicular	20740+80	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20740+50	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20759+50	N/A

Note: The table above describes the CI utilities within this Package. Appendix R includes the utility summation matrix which includes additional information such as the CI owner, size, length, and description. Section 13.3 describes the

PACKAGE 2 – CO-LOCATED UTILITIES

Table 4.4B – Facility ROW Ownership and Easements				
Segment/ Package	Ownership/Parcel ID	Description	Location (Approximate – See Drawings for Details)	Comments
S3/P2	86-4-3	Temporary Easement	20004+40 to 20005+72 (C-101)	Public, Southeast of Road ROW
S3/P2	86-4-3	Temporary Easement	20009+99 to 20011+05 (C-101)	Public, Southeast of Road ROW
S3/P2	86-4-3	Temporary Easement	20023+75 to 20024+69 (C-102)	Public, Southeast of Road ROW
S3/P2	104-1-5	Temporary Easement	20031+64 to 20033+34 (C-103)	Private
S3/P2	95-2-22	Temporary Easement	20062+80 to 20064+87 (C-105)	Public, East of Road ROW
S3/P2	State Route 22	Permanent Easement	20081+44 to 20083+90 (C-106)	Public
S3/P2	95-2-22	Temporary Easement	20094+79 to 20096+22 (C-107)	Public, Southeast of Road ROW; Northwest of Road ROW
S3/P2	104-1-7	Temporary Easement	20157+28 to 20161+65 (C-111)	Private, Northwest of Road ROW
S3/P2	104-1-1.1	Temporary Easement	20169+94 to 20170+43 (C-112)	Private
S3/P2	104-1-5	Temporary Easement	20177+85 to 20179+05 (C-112)	Public
S3/P2	104-2-45	Permanent Easement	20178+64 to 20183+37 (C-112 & C-113)	Public, Southeast of Road ROW
S3/P2	104-1-1.1	Temporary Easement	20185+22 to 20189+60 (C-113)	Private, Northwest of RR ROW
S3/P2	103-1-5	Temporary & Permanent Easement	20189+60 to 20195+24 (C-113 & C-114)	Private, Northwest of RR ROW
S3/P2	103-1-8	Permanent Easement	20195+24 to 20197+56 (C-114)	Private, Northwest of RR ROW
S3/P2	103-1-6.21	Permanent Easement	20197+56 to 20204+08 (C-114)	Private, Northwest of RR ROW
S3/P2	103-1-6.21	Temporary Easement	20203+95 to 20204+08 (C-114)	Private, Northwest of RR ROW
S3/P2	103-1-6.22	Temporary Easement	20204+08 to 20204+39 (C-114)	Private, Northwest of RR ROW
S3/P2	103-1-6.22	Permanent Easement	20204+08 to 20206+70 (C-114)	Private, Northwest of RR ROW
S3/P2	103-1-1.1	Temporary & Permanent Easement	20206+70 to 20209+23 (C-114)	Public, Temporary Construction, Permanent easement.
S3/P2	103-1-35	Temporary Easement	20217+16 to 20219+69 (C-115)	Private, North of RR ROW
S3/P2	103-1-35	Temporary Easement	20229+70 to 20234+17 (C-116)	Private, North of RR ROW
S3/P2	103-1-35	Temporary Easement	20234+54 to 20239+65 (C-116)	Private, North of RR ROW
S3/P2	State Route 4 ROW	Permanent Easement	20245+38 to 20255+41 (C-117 & C-118)	Public, Northwest of RR ROW
S3/P2	State Route 4 ROW	Temporary Easement	20245+38 to 20249+35 (C-117)	Public, Northwest of RR ROW
S3/P2	103-1-1.1	Permanent Easement	20255+41 to 20270+63 (C-118)	Public, East of RR ROW
S3/P2	103-1-1.1	Temporary Easement	20262+91 to 20266+05 (C-118)	Public, West of RR ROW
S3/P2	103-1-14.4	Temporary Easement	20272+90 to 20275+82 (C-119)	Private, West of RR ROW
S3/P2	103-1-1.1	Temporary Easement	20276+78 to 20280+90 (C-119)	Public, West of RR ROW
S3/P2	103-1-16.1	Temporary Easement	20279+13 to 20280+53 (C-119)	Private, West of RR ROW
S3/P2	103-1-1.1	Permanent Easement	20284+03 to 20285+24 (C-119 & C-120)	Public
S3/P2	112.10-4-2	Permanent Easement	20285+24 to 20289+29 (C-120)	Public, West of RR ROW
S3/P2	112.10-4-1	Permanent Easement	20285+55 to 20290+02 (C-120)	Private, West of RR ROW
S3/P2	112.10-4-2	Temporary Easement	20289+40 to 20293+01 (C-120)	Private, West of RR ROW
S3/P2	112.10-4-2	Temporary Easement	20291+61 to 20292+68 (C-120)	Private, West of RR ROW
S3/P2	Clay Hill Road	Temporary Easement	20295+11 to 20295+39 (C-120)	Public
S3/P2	112.10-5-8.1	Temporary Easement	20300+75 to 20309+34 (C-121)	Public, East of RR ROW
S3/P2	112.10-5-8.1	Permanent Easement	20300+75 to 20306+45 (C-121)	Public, East of RR ROW
S3/P2	112.10-5-8.1	Permanent Easement	20310+59 to 20311+65 (C-121)	Public, East of RR ROW
S3/P2	112.00-3-20	Permanent Easement	20311+65 to 20320+55 (C-121 & C-122)	Public, East of RR ROW
S3/P2	112.00-3-20	Temporary Easement	20314+18 to 20318+62 (C-121 & C-122)	Public, East of RR ROW
S3/P2	112.00-3-20	Temporary Easement	20322+90 to 20326+07 (C-122)	Public, East of RR ROW
S3/P2	112.00-3-20	Temporary Easement	20328+90 to 20332+17 (C-122 & C-123)	Public, East of RR ROW
S3/P2	112.00-3-20	Permanent Easement	20329+40 to 20332+07 (C-122 & C-123)	Public, East of RR ROW
S3/P2	112.00-4-17.1	Temporary Easement	20338+86 to 20340+30 (C-123)	Private, West of RR ROW
S3/P2	12.00-2-9	Temporary Easement	20340+30 to 20340+74 (C-123)	Private, East of RR ROW
S3/P2	121.00-3-5.1	Temporary Easement	20351+53 to 20355+80 (C-124)	Private, East of RR ROW
S3/P2	121.00-3-5.1	Temporary Easement	20357+50 to 20358+20 (C-124)	Private, East of RR ROW
S3/P2	121.00-4-27	Temporary Easement	20357+50 to 20358+20 (C-124)	Public, East of RR ROW
S3/P2	112.00-1-5.10	Temporary Easement	20371+26 to 20377+61 (C-125 & C-126)	Private, West of RR ROW
S3/P2	112.00-1-5.10	Temporary Easement	20379+74 to 20382+02 (C-126)	Private, West of RR ROW
S3/P2	112.00-1-5.10	Permanent Easement	20382+38 to 20382+66 (C-126)	Private, West of RR ROW
S3/P2	Baldwin Corners Rd	Temporary Easement	20382+66 to 20383+22 (C-126)	Public
S3/P2	Baldwin Corners Rd	Permanent Easement	20382+66 to 20383+22 (C-126)	Public
S3/P2	121.00-1-6	Temporary Easement	20383+22 to 20384+69 (C-126)	Private, West of RR ROW
S3/P2	121.00-1-6	Permanent Easement	20383+22 to 20384+01 (C-126)	Private, West of RR ROW
S3/P2	121.00-1-6	Temporary Easement	20388+54 to 20394+98 (C-126 & C-127)	Private, West of RR ROW
S3/P2	121.00-1-6	Permanent Easement	20388+77 to 20394+98 (C-126 & C-127)	Private, West of RR ROW
S3/P2	121.00-1-14	Temporary & Permanent Easement	20394+98 to 20399+38 (C-127)	Private, West of RR ROW
S3/P2	121.00-1-14.2	Temporary & Permanent Easement	20399+38 to 20403+63 (C-127)	Private, West of RR ROW
S3/P2	121.00-1-14.1	Temporary & Permanent Easement	20403+63 to 20407+83 (C-127 & C-128)	Private, West of RR ROW
S3/P2	121-1-17	Temporary & Permanent Easement	20407+83 to 20427+92 (C-128 & C-129)	Private, West of RR ROW
S3/P2	130-3-1	Temporary & Permanent Easement	20427+92 to 20447+60 (C-129 & C-130)	Private, West of RR ROW
S3/P2	130-3-1	Temporary Easement	20446+04 to 20447+60 (C-130)	Private, West of RR ROW
S3/P2	130-3-7.3	Temporary & Permanent Easement	20447+60 to 20449+03 (C-130)	Private, West of RR ROW
S3/P2	130-3-7.3	Temporary Easement	20453+16 to 20465+64 (C-131)	Private, West of RR ROW
S3/P2	130-3-7.3	Temporary Easement	20466+81 to 20464+15 (C-131)	Private, West of RR ROW
S3/P2	130-3-7.3	Temporary Easement	20462+46 to 20465+73 (C-131 & C-132)	Private, West of RR ROW
S3/P2	130-3-7.4	Temporary Easement	20465+64 to 20465+73 (C-132)	Private, West of RR ROW
S3/P2	130-3-7.4	Temporary Easement	20465+73 to 20466+31 (C-132)	Private, Northwest of RR ROW
S3/P2	130-3-7.4	Permanent Easement	20470+41 to 20477+85 (C-132)	Private, Northwest of RR ROW
S3/P2	130-3-7.4	Temporary Easement	20477+85 to 20479+15 (C-132)	Private, Northwest of RR ROW
S3/P2	130-3-7.5	Permanent Easement	20479+15 to 20493+82 (C-132 & C-133)	Private, Northwest of RR ROW
S3/P2	130-3-7.5	Temporary Easement	20479+15 to 20494+56 (C-132 & C-133)	Private, Northwest of RR ROW
S3/P2	130-3-7.5	Permanent Easement	20498+34 to 20499+23 (C-134)	Private, Northwest of RR ROW
S3/P2	139-1-12	Permanent Easement	20500+00 to 20501+00 (C-134)	Private, Northwest of RR ROW
S3/P2	139-1-3	Temporary Easement	20511+59 to 20512+01 (C-135)	Private, Northwest of RR ROW
S3/P2	138-1-21.2	Temporary Easement	20540+11 to 20544+67 (C-137)	Public, Northwest of RR ROW
S3/P2	138-1-21.2	Temporary Easement	20544+99 to 20546+35 (C-137)	Public, Northwest of RR ROW
S3/P2	139-1-21	Temporary Easement	20544+99 to 20546+35 (C-137)	Private, Northwest of RR ROW
S3/P2	139-1-21	Temporary Easement	20544+99 to 20548+13 (C-137)	Private, Northwest of RR ROW
S3/P2	138-1-21.2	Temporary Easement	20548+13 to 20549+12 (C-137)	Public, Northwest of RR ROW
S3/P2	138-1-20	Temporary Easement	20549+12 to 20553+08 (C-137)	Private, Northwest of RR ROW
S3/P2	138-1-20	Temporary Easement	20551+58 to 20552+76 (C-137)	Private, Northwest of RR ROW
S3/P2	138-1-21.1	Temporary Easement	20572+92 to 20577+02 (C-139)	Private, Northwest of RR ROW
S3/P2	138-1-21.1	Permanent Easement	20578+33 to 20579+88 (C-139)	Private, Northwest of RR ROW
S3/P2	138-1-24	Permanent Easement	20579+88 to 20580+34 (C-139)	Private, Northwest of RR ROW

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.

S3/P2	138-1-24	Temporary Easement	20587+04 to 20590+10 (C-140)	Private, Northwest of RR ROW
S3/P2	147-1-8	Temporary Easement	20605+46 to 20608+83 (C-141)	Private, Northwest of RR ROW
S3/P2	147-1-8	Temporary Easement	20613+41 to 20613+85 (C-141)	Private, Northwest of RR ROW
S3/P2	New Swamp Road	Permanent Easement	20613+85 to 20614+48 (C-141)	Public
S3/P2	New Swamp Road	Temporary Easement	20614+23 to 20614+34 (C-141)	Public
S3/P2	147-1-13	Temporary Easement	20638+16 to 20641+45 (C-143)	Private, Northwest of RR ROW
S3/P2	147-1-13	Temporary Easement	20640+50 to 20642+98 (C-143)	Private, Northwest of RR ROW
S3/P2	147-1-15	Temporary Easement	20642+98 to 20644+05 (C-143)	Private, Northwest of RR ROW
S3/P2	147-1-15	Temporary Easement	20643+24 to 20643+82 (C-143)	Private, Northwest of RR ROW
S3/P2	138-1-21.2	Temporary Easement	20644+05 to 20647+28 (C-143 & C-144)	Public, Northwest of RR ROW
S3/P2	138-1-21.2	Temporary Easement	20645+56 to 20648+21 (C-144)	Public, Northwest of RR ROW
S3/P2	147-1-15	Temporary Easement	20647+39 to 20649+09 (C-144)	Private, Northwest of RR ROW
S3/P2	147-1-15	Temporary Easement	20647+39 to 20650+03 (C-144)	Private, Northwest of RR ROW
S3/P2	147-1-17	Permanent Easement	20656+63 to 20669+48 (C-144 & C-145)	Private, Northwest of RR ROW
S3/P2	147-1-17	Temporary Easement	20654+49 to 20669+48 (C-144 & C-145)	Private, Northwest of RR ROW
S3/P2	147-1-18	Temporary Easement	20669+48 to 20675+01 (C-145 & C-146)	Private, Northwest of RR ROW
S3/P2	147-1-18	Temporary Easement	20673+95 to 20675+01 (C-145 & C-146)	Private, Northwest of RR ROW
S3/P2	138.00-1-21.2	Temporary Easement	20673+95 to 20675+01 (C-145 & C-146)	Public, Northwest of RR ROW
S3/P2	155-1-3	Temporary Easement	20694+65 to 20697+05 (C-147)	Private, Northwest of RR ROW
S3/P2	155-1-3	Temporary Easement	20695+65 to 20699+96 (C-147)	Private, Northwest of RR ROW
S3/P2	155-1-4	Temporary Easement	20699+96 to 20703+91 (C-147)	Private, Northwest of RR ROW
S3/P2	155-1-4	Temporary Easement	20702+00 to 20705+98 (C-147 & C-148)	Private, Northwest of RR ROW
S3/P2	155-1-2.1	Temporary Easement	20706+77 to 20707+49 (C-148)	Private, Northwest of RR ROW
S3/P2	155-1-8	Permanent Easement	20715+38 to 20716+62 (C-148)	Private, Northwest of RR ROW
S3/P2	155-1-9	Permanent Easement	20716+62 to 20717+56 (C-148)	Private, Northwest of RR ROW
S3/P2	155-1-13	Temporary Easement	20732+77 to 20738+58 (C-149 & C-150)	Private, Northwest of RR ROW
S3/P2	155-1-13	Permanent Easement	20733+66 to 20738+58 (C-150)	Private, Northwest of RR ROW
S3/P2	155-1-13	Temporary Easement	20733+74 to 20738+58 (C-150)	Private, Northwest of RR ROW
S3/P2	State Route 196	Permanent Easement	20738+58 to 20740+00 (C-150)	Public
S3/P2	Rubidau Lane	Permanent Easement	20740+00 to 20740+49 (C-150)	Public
S3/P2	155-1-14.1	Permanent Easement	20740+49 to 20746+67 (C-150)	Private, Northwest of RR ROW
S3/P2	154-1-15	Permanent Easement	20744+74 to 20755+61 (C-150 & C-151)	Private, Northwest of RR ROW
S3/P2	154-1-15	Temporary Easement	20746+33 to 20746+80 (C-150)	Private, Northwest of RR ROW
S3/P2	154-1-15	Temporary Easement	20748+70 to 20750+13 (C-150 & C-151)	Private, Northwest of RR ROW
S3/P2	154-1-15	Temporary Easement	20749+52 to 20755+61 (C-150 & C-151)	Private, Northwest of RR ROW
S3/P2	154-1-15	Temporary Easement	20754+03 to 20755+61 (C-151)	Private, Northwest of RR ROW
S3/P2	154-1-16	Temporary Easement	20755+61 to 20757+34 (C-151)	Private, Northwest of RR ROW
S3/P2	154-1-16	Permanent Easement	20755+61 to 20759+89 (C-151)	Private, Northwest of RR ROW
S3/P2	154-1-16	Temporary Easement	20755+61 to 20757+54 (C-151)	Private, Northwest of RR ROW
S3/P2	154-1-17	Permanent Easement	20759+89 to 20764+72 (C-151)	Private, Northwest of RR ROW
S3/P2	154-1-18	Permanent Easement	20764+72 to 20785+81 (C-151 to C-153)	Private, Northwest of RR ROW
S3/P2	138-1-21.2	Permanent Easement	20767+13 to 20779+10 (C-152)	Public, West of RR ROW
S3/P2	138-1-21.2	Temporary Easement	20776+13 to 20779+81 (C-152)	Public, West of RR ROW
S3/P2	Towpath Lane	Temporary Easement	20776+13 to 20801+00 (C-152 & C-153)	Public, West of RR ROW
S3/P2	154-1-18	Temporary Easement	20776+13 to 20779+10 (C-152)	Private, West of RR ROW
S3/P2	163-2-1.3	Permanent Easement	20785+81 to 20801+00 (C-152 & C-153)	Private, West of RR ROW
S3/P2	163-2-1.3	Temporary Easement	20777+00 to 20800+00 (C-152)	Private, West of RR ROW

Note: Table 4 summarizes the easements that are in place this Package. Section 4.7 summarizes the procedures that will be followed in regards to land access

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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 SECTION 14. IN ACCORDANCE WITH CERTIFICATE CONDITION 48, WITHIN TEN (10) DAYS OF THE COMPLETION OF FINAL RESTORATION ACTIVITIES, THE CERTIFICATE HOLDER WILL NOTIFY THE SECRETARY THAT ALL RESTORATION HAS BEEN COMPLETED IN COMPLIANCE WITH THE CERTIFICATE AND THE ORDER(S) APPROVING THE EM&CP.

CLEANUP STANDARDS AND PRACTICES

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

RESTORATION AND PLANTING

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

SITE PREPARATION FOR REVEGETATION

THE SURFACE OF THE ROAD AND CONSTRUCTION ROWS DISTURBED BY CONSTRUCTION ACTIVITIES WILL BE GRADED TO MATCH THE ORIGINAL TOPOGRAPHIC CONTOURS AND TO BE COMPATIBLE WITH SURROUNDING DRAINAGE PATTERNS WHERE APPROPRIATE. IT SHOULD BE NOTED THAT SUBCONTRACTORS WILL TYPICALLY LIMIT GRUBBING (THE REMOVAL OF STUMPS AND ROOTS) TO THE FOOTPRINT OF THE EXCAVATED TRENCH AND ACCESS ROADS TO ALLOW RE-SPROUTING AND ASSIST IN THE RECOVERY OF WOODY SPECIES, EXCEPT WHERE REMOVAL IS REQUIRED FOR SAFE CONSTRUCTION. WHERE NEEDED, IT MAY BE NECESSARY TO IMPORT TOPSOIL TO RETURN AN AREA TO GRADE. IMPORTED TOPSOIL WILL FOLLOW CLASSIFICATION AND CHARACTERIZATION MEASURES OUTLINED IN THE SOIL AND MATERIALS MANAGEMENT PLAN IN APPENDIX L. HDD ENTRY AND EXIT PITS WILL BE BACKFILLED AND THE DISTURBED GROUND SURFACE WILL BE SIMILARLY GRADED. THE ENTRY AND EXIT POINTS FOR EACH HDD CROSSING ARE DESCRIBED IN TABLE 5.2. TRENCHES WILL BE BACKFILLED IN ACCORDANCE WITH THE MEASURES OUTLINED IN SECTION 4.4. THE CERTIFICATE HOLDER WILL BE RESPONSIBLE FOR CHECKING ALL CULVERTS AND ASSURE THAT THEY ARE NOT CRUSHED OR BLOCKED DURING CONSTRUCTION AND RESTORATION OF THIS SEGMENT AND, IF A CULVERT IS BLOCKED OR CRUSHED, TAKE IMMEDIATE STEPS TO REPLACE OR REPAIR THE CULVERT IN ACCORDANCE WITH APPLICABLE STATE OR LOCAL STANDARDS.

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

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

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

SEEDING AND PLANTING

AS DESCRIBED IN THE BMP DOCUMENT, SEEDING OPERATIONS ACROSS THE 35-FOOT-WIDE CONSTRUCTION AND FACILITY ROW AS WELL AS WITHIN STAGING AND LAYDOWN AREAS WILL COMMENCE ONLY AFTER AN ACCEPTABLE SEEDBED HAS BEEN ESTABLISHED, AS DESCRIBED ABOVE. SEED WILL BE APPLIED BY HAND, OR VIA HYDRO-SEEDERS. THE ENTIRE SEEDED AREA WILL BE WATERED WITH A FINE SPRAY, AS NECESSARY, UNTIL A UNIFORM MOISTURE DEPTH OF APPROXIMATELY ONE (1) INCH HAS BEEN ACHIEVED AS APPLICABLE. MULCHING AND ANCHORING OF THE MULCH MAY BE NECESSARY IN SOME AREAS UNLESS A HYDOMULCH/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 HYDOMULCH/SEED SLURRY. NO FERTILIZER WILL BE APPLIED IN WETLAND RESOURCE AREAS. SEDING/MULCHING WILL TAKE PLACE UNDER THE SUPERVISION OF THE ENVIRONMENTAL INSPECTOR. THE SEED MIXTURE AND RATE OF APPLICATION WILL DEPEND ON THE SOIL TYPE, LAND USE, AVAILABLE MOISTURE, AND SEASON AT THE TIME OF APPLICATION. SEEDBED PREPARATION (FINAL TILLAGE, FERTILIZING, LIMING) AND SEEDING WILL FOLLOW RECOMMENDATIONS AS CONTAINED IN NEW YORK STATE FARMLAND: SEEDING, FERTILIZING AND LIME RECOMMENDATIONS FOR GAS PIPELINE ROW RESTORATION IN FARMLANDS (REVISED 4-27-2011) IF APPLICABLE OR AS SPECIFIED BY THE LANDOWNER. ALL SEED MIXES WILL BE FREE OF INVASIVE SPECIES. ALL SEED BAG TAGS (EITHER ORIGINAL OR SCANNED COPIES) WILL BE PROVIDED TO THE ENVIRONMENTAL INSPECTOR. SEEDED AREAS WILL BE MONITORED FOLLOWING RESTORATION UNTIL A MINIMUM VEGETATIVE COVER OF EIGHTY (80) PERCENT IS ACHIEVED. THE SEED MIXTURES WILL FOLLOW THE TECHNICAL SPECIFICATIONS INCLUDED ON THE PLAN AND PROFILE DRAWINGS IN APPENDIX C FOR UPLANDS AND WETLAND BUFFER ZONES. FOR WETLAND RESOURCE AREAS, EMERGENT COMMUNITIES SHOULD BE REVEGETATED WITH AN ERNST FACW WETLAND MEADOW MIX (ERNMX-122) OR EQUIVALENT, AND FOR SHADED SITES WITHIN FORESTED/SHRUB-SHRUB WETLAND COMMUNITIES, DISTURBED AREAS SHOULD BE REVEGETATED WITH ERNST SPECIALIZED WETLAND MIX FOR SHADED AREAS (ERNMX-137) OR EQUIVALENT.

THE MAJORITY OF SOIL DISTURBANCE FOR THIS SEGMENT WILL BE WITHIN THE TRENCH-LINE FOR THE CONDUIT/CABLE. HOWEVER, SOME DISTURBANCE WILL ALSO OCCUR DURING INSTALLATION AND REMOVAL OF TEMPORARY ACCESS ROADS AS DESCRIBED IN SECTION 4.10 OF THE EM&CP. ALL TRENCH AREAS AND OTHER EXCAVATED AREAS WILL BE RESEED WITH AN APPROPRIATE SEED MIX AS IDENTIFIED ABOVE. VEGETATION THROUGHOUT THE CONSTRUCTION ROW WILL BE CUT TO GROUND LEVEL AND ROOT SYSTEMS WILL REMAIN INTACT TO ALLOW FOR RESPROUTING FOLLOWING CONSTRUCTION, UNLESS RESPROUTING WOULD INTERFERE WITH THE SAFE AND RELIABLE OPERATION OF THE PROJECT.

WHEN TREE CLEARING IS REQUIRED, ALL TREES OVER TWO (2) INCHES IN DBH OR SHRUBS OVER FOUR (4) FEET IN HEIGHT THAT ARE DAMAGED OR DESTROYED BY ACTIVITIES DURING CONSTRUCTION, OPERATION, OR MAINTENANCE WITHIN ASSOCIATED URBAN, RESIDENTIAL, LANDSCAPED AREAS, AND RECREATIONAL AREAS, WILL BE REPLACED WITHIN THE FOLLOWING YEAR BY THE CERTIFICATE HOLDERS WITH THE EQUIVALENT TYPE OF TREES OR SHRUBS EXCEPT 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, PER THE CERTIFICATE CONDITION 117 , THE CERTIFICATE HOLDERS HAVE ESTABLISHED AND WILL IMPLEMENT THE FOLLOWING PROGRAM TO MONITOR THE SUCCESS OF STREAM RESTORATION UPON COMPLETION OF CONSTRUCTION AND RESTORATION ACTIVITIES. PER CONDITIONS K AND L OF THE USACE PERMIT, THE FOLLOWING WILL DETERMINE IF STREAM AND RESTORATION IS SUCCESSFUL:

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

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

RESTORATION OF WETLANDS

THESE AREAS WILL BE RESTORED IN ACCORDANCE WITH SECTION 14.4.2 OF THE EM&CP AS CLOSE AS PRACTICABLE TO PRE-CONSTRUCTION CONDITIONS AND CONTOURS. ALL TEMPORARY FENCING AND EROSION CONTROLS WILL BE REMOVED AND DISPOSED OF IN AN ACCEPTABLE MANNER AT A STATE APPROVED DISPOSAL FACILITY APPROVED BY DPS STAFF AND THE CERTIFICATE HOLDER. ALL MOTORIZED CONSTRUCTION EQUIPMENT WILL BE TRANSPORTED TO OFF-SITE FACILITIES. ALL WETLAND MATS AND MATERIALS WILL BE COLLECTED, PACKED, AND TRANSPORTED TO OFF-SITE STORAGE FACILITY OR TO THE NEXT SEGMENT'S STAGING AREAS NEEDED.

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 (WHERE IMPACTED AND IF APPLICABLE) USING THE PROCEDURES AND METHODS SPECIFIED IN THE SECTIONS ABOVE WHERE NEEDED. IF NECESSARY, ADDITIONAL REVEGETATION AND TREE PLANTING MAY BE PERFORMED DEPENDING ON THE IMPACT OF CONSTRUCTION.

ROADWAY RESTORATION (STRIPING, SIGNAGE, AUDIBLE ROADWAY DELINEATORS)

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

RESTORATION OF ROADWAY

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

RESTORATION OF ROADWAY SHOULDER

THESE AREAS WILL BE RESTORED AS CLOSE AS PRACTICABLE TO PRE-CONSTRUCTION CONDITIONS AND CONTOURS. TRENCHES WILL BE BACKFILLED PER THE APPROPRIATE DETAIL, FULL WIDTH OF THE TRENCH WILL BE RESTORED TO MATCH THE EXISTING PAVEMENT SECTION, THE FULL WIDTH OF THE TRAVEL LANE TO THE CENTERLINE WILL BE MILLED AND OVERLAYED WITH A TOP COURSE OF ASPHALT. ALL TEMPORARY FENCING AND EROSION CONTROLS WILL BE REMOVED AND DISPOSED ON IN AN ACCEPTABLE MANNER AT A STATE APPROVED DISPOSAL FACILITY APPROVED BY DPS 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 AND CONTROLS APPROPRIATE FOR THOSE LOCATIONS, AS APPROPRIATE. THE CERTIFICATE HOLDERS WILL CONSULT THE MUNICIPAL OR HIGHWAY DEPARTMENT AND OR REGIONAL OFFICE OR COUNTY ENGINEER OF THE NYSDOT IN ORDER TO IDENTIFY AND INCORPORATE APPROPRIATE SPECIFICATIONS FOR CURB, SIDEWALK, OR STREET RESTORATION. ALL SURFACE RESTORATION WILL FOLLOW THE SPECIFICATIONS PROVIDED IN THE PLAN AND PROFILE DRAWINGS. GUIDE RAILS WILL BE REMOVED AND REPLACE IN ACCORDANCE WITH NYSDOT STANDARD SHEET 606.01.

RESTORATION OF RAILWAY BALLAST

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

SEED MIXES

- A. GENERAL SEED:
 - 1. PIPELINE MIX 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% PHELEUM 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 SNEEZEWEED, PA ECOTYPE)
 - 0.5% MINULUS 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.

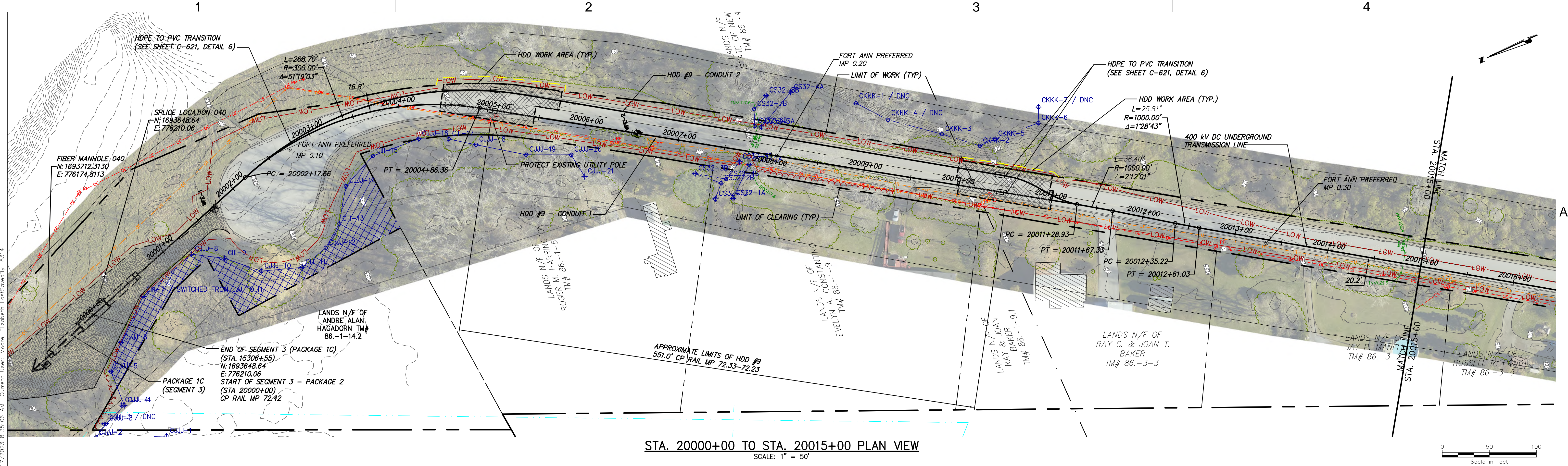
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
RESTORATION NOTES

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	
G-020	
DATE	03/22/2023

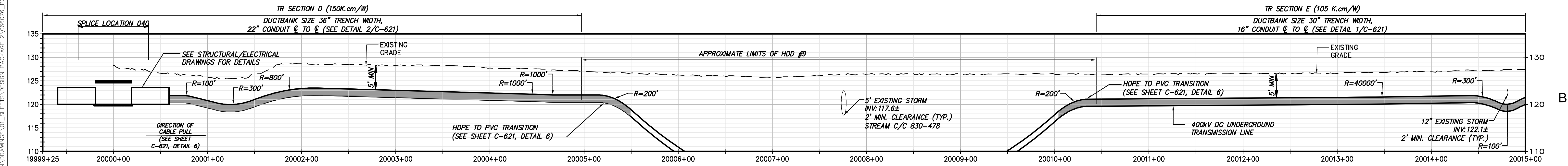
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DB	APP					REV. NO.	X







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.



STA. 20000+00 TO STA. 20015+00 PLAN VIEW
SCALE: 1" = 50'



STA. 20000+00 TO STA. 20015+00 PROFILE VIEW
SCALE: H:1" = 50' V:1" = 10'



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0	03/22/2023	ISSUED FOR CONSTRUCTION SUBMISSION	JJE	JPR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
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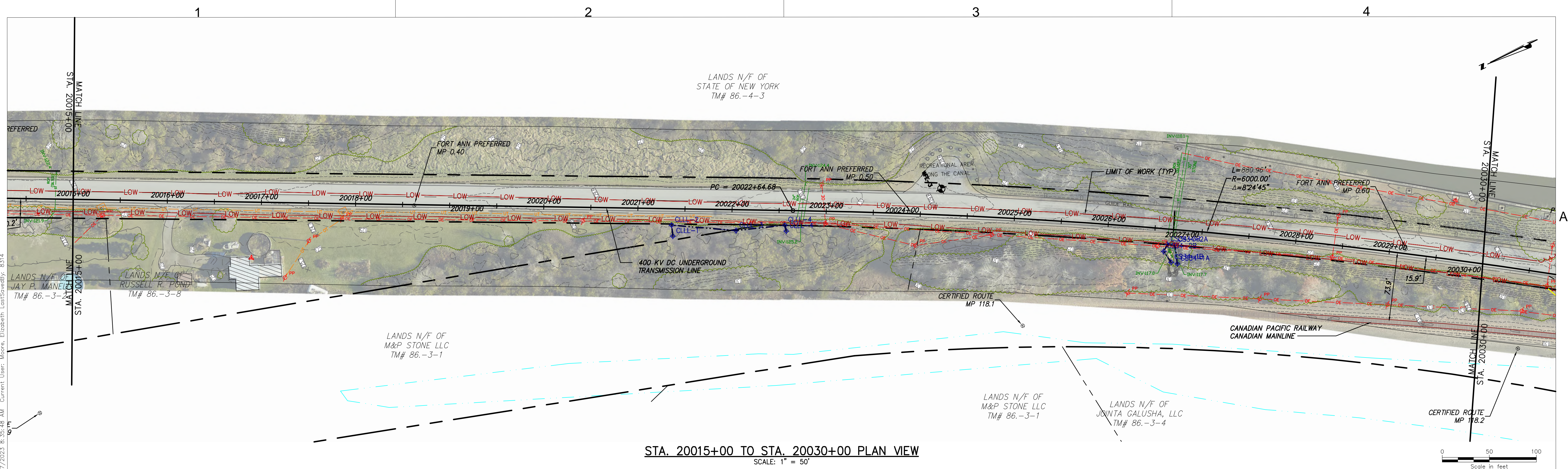
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REV. NO. X

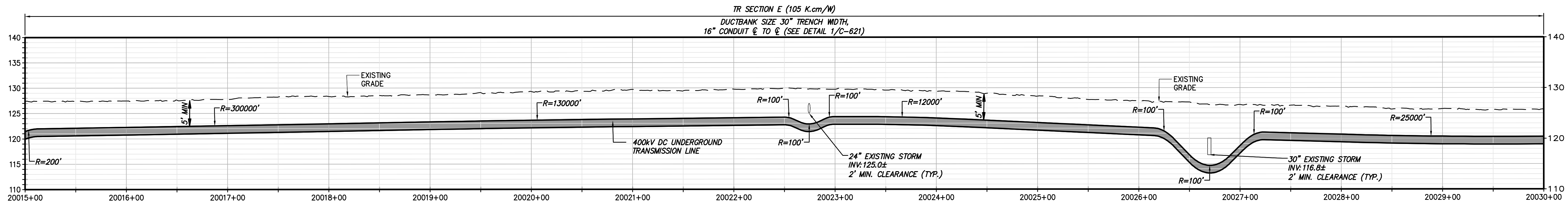
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DRAWING NO. C-101

DATE 03/22/2023

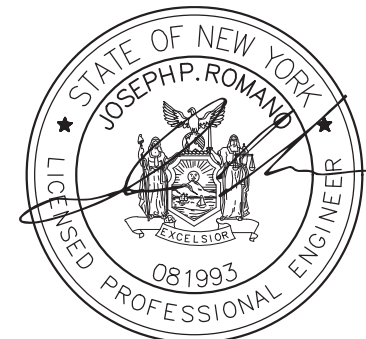
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STA. 20015+00 TO STA. 20030+00 PLAN VIEW
SCALE: 1" = 50'



STA. 20015+00 TO STA. 20030+00 PROFILE VIEW
SCALE: H:1" = 50' V:1" = 10'



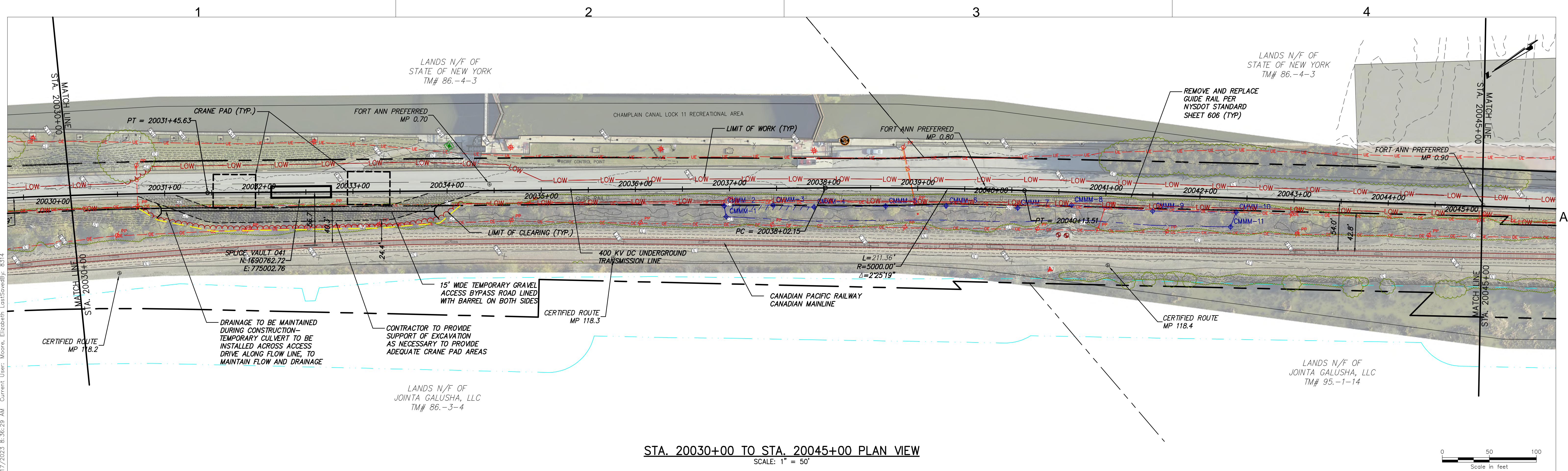
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0	03/22/2023	ISSUED FOR CONSTRUCTION SUBMISSION	JJE	JPR
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP

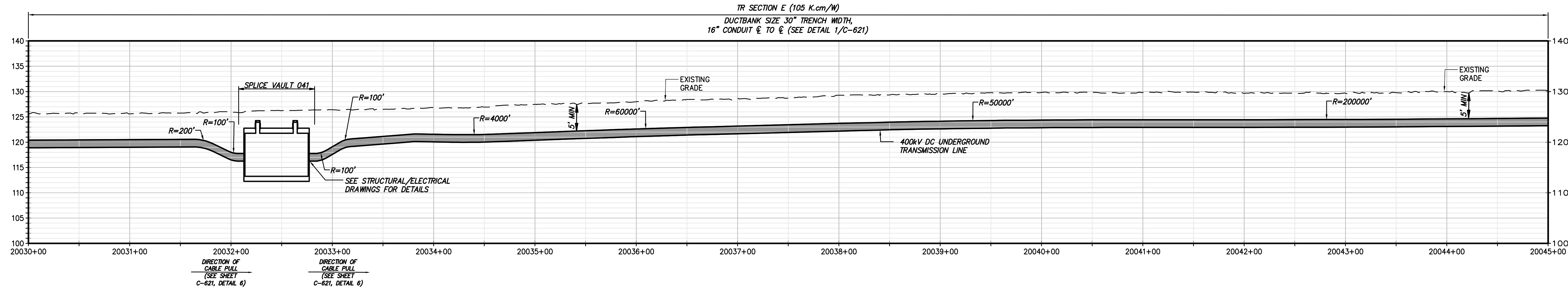
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
STA. 20015+00 TO STA. 20030+00 PLAN AND PROFILE

DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR SCALE AS NOTED
REV. NO. X





KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-102
DATE	03/22/2023



STA. 20030+00 TO STA. 20045+00 PLAN VIEW
SCALE: 1" = 50'



STA. 20030+00 TO STA. 20045+00 PROFILE VIEW
SCALE: H:1" = 50' V:1" = 10'



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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
STA. 20030+00 TO STA. 20045+00 PLAN AND PROFILE

DRAWN BY: JJE

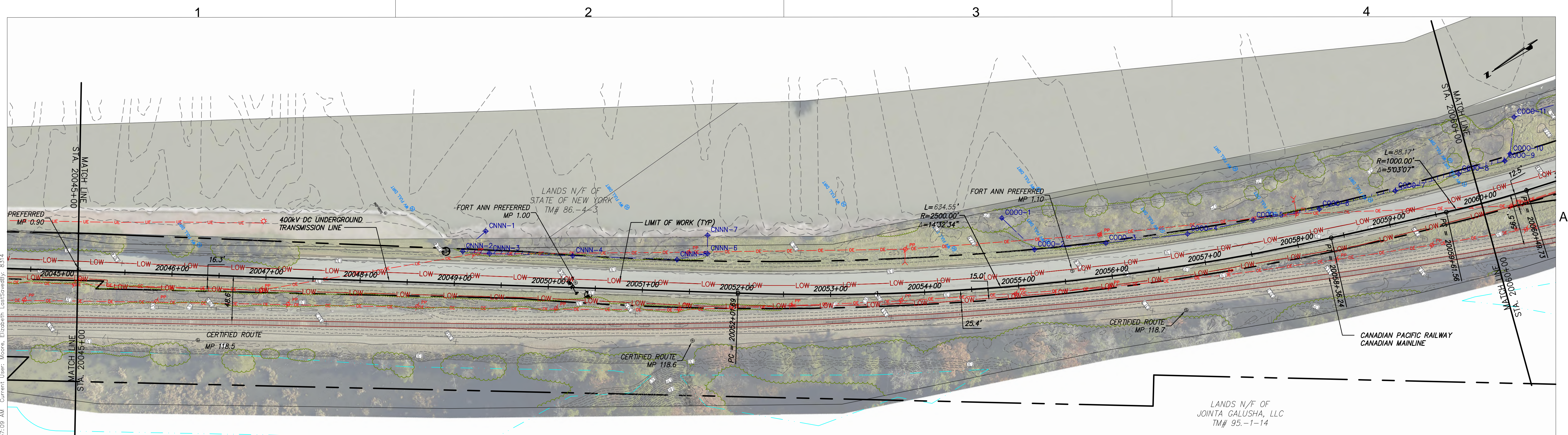
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APPROVED BY: JPR

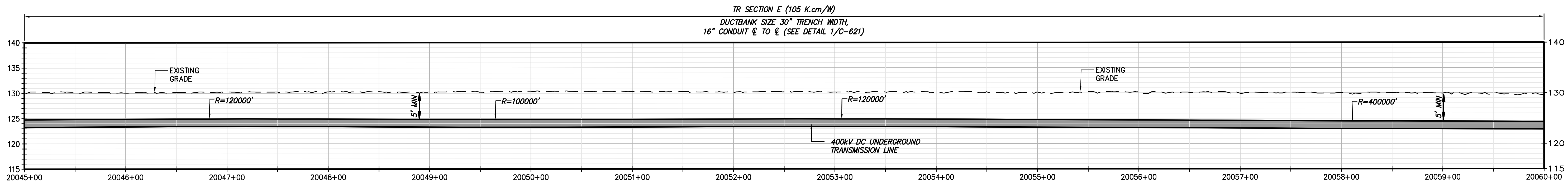
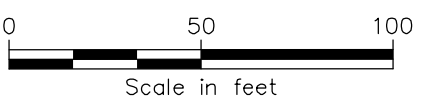
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KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. C-103





DATE 03/22/2023



STA. 20045+00 TO STA. 20060+00 PLAN VIEW
SCALE: 1" = 50'



STA. 20045+00 TO STA. 20060+00 PROFILE VIEW
SCALE: H:1" = 50' V:1" = 10'



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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
STA. 20045+00 TO STA. 20060+00 PLAN AND PROFILE

DRAWN BY: JJE

DESIGNED BY: JTM

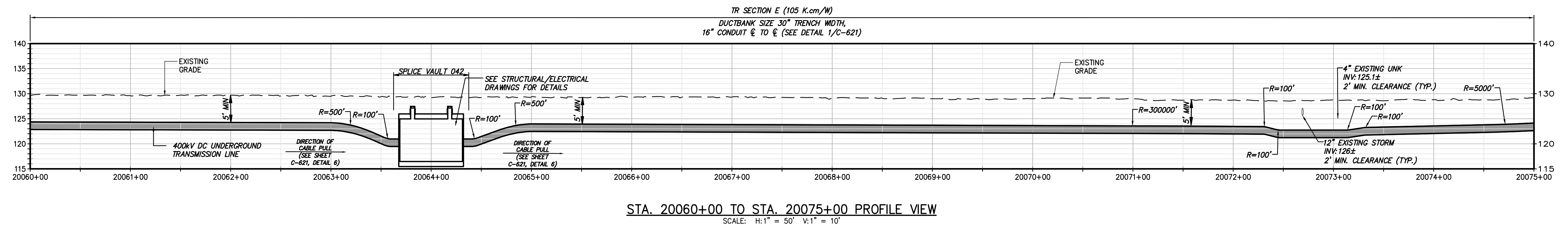
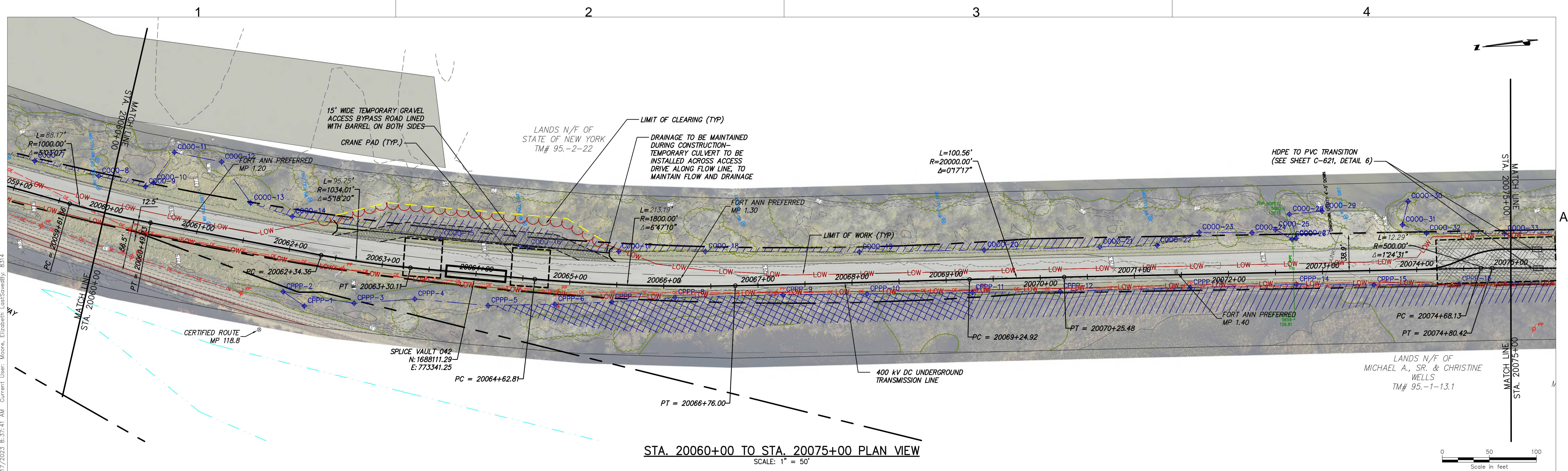
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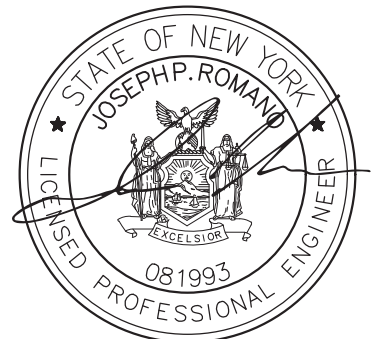



SCALE: AS NOTED

REV. NO. X

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. C-104

DATE 03/22/2023





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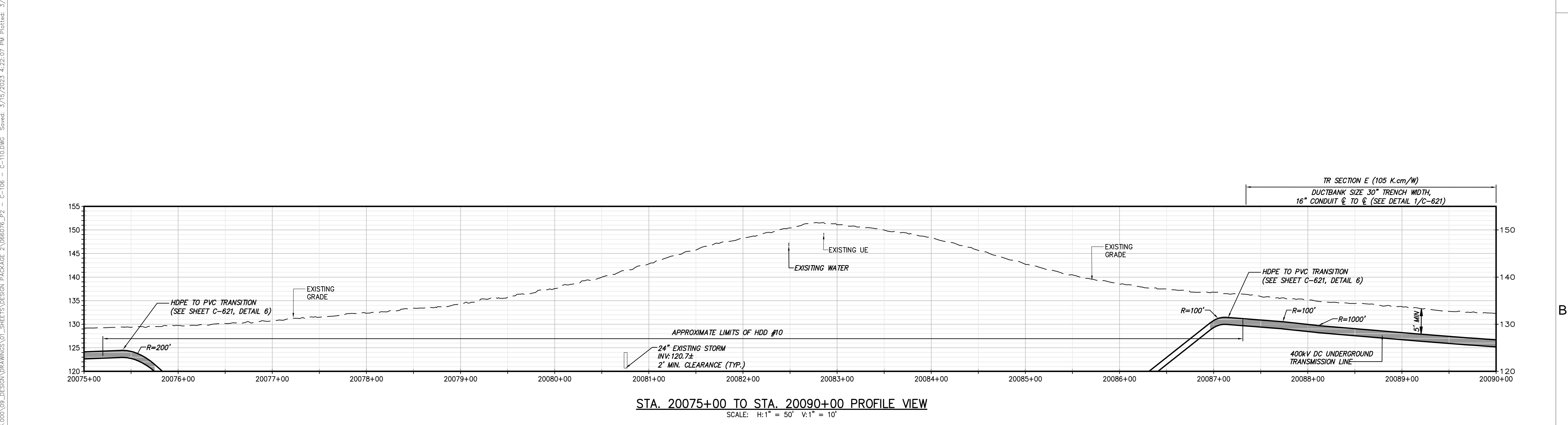
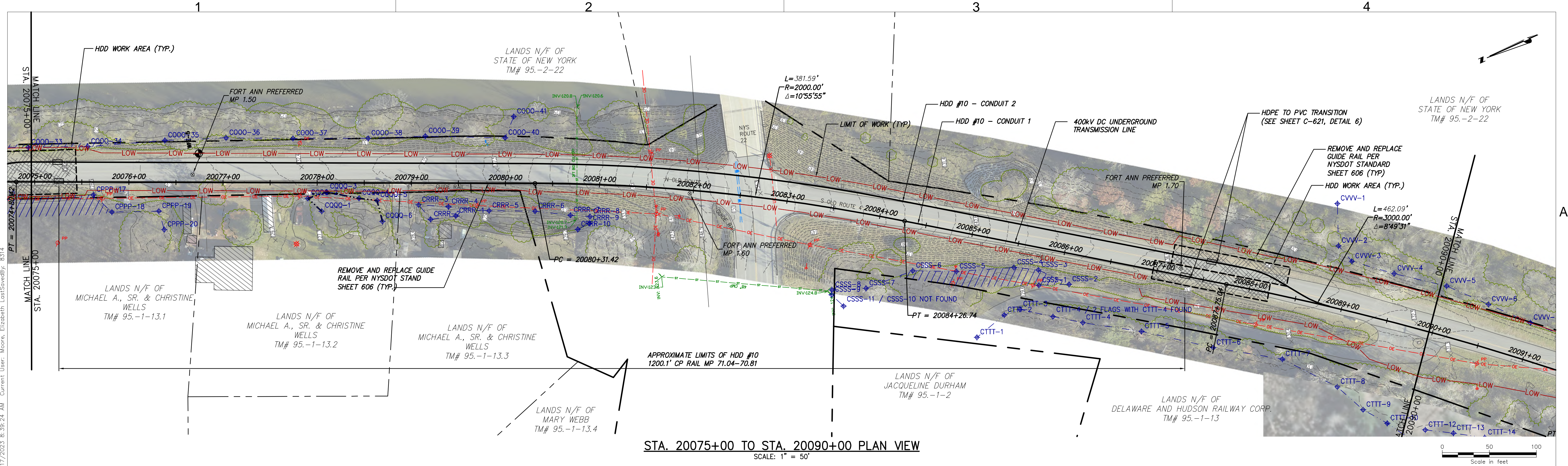
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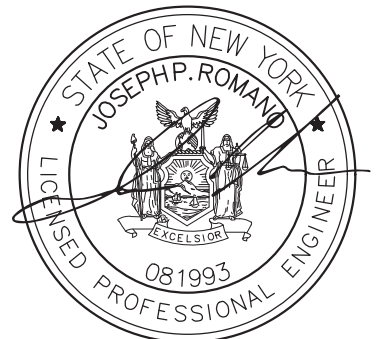



CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
STA. 20060+00 TO STA. 20075+00 PLAN AND PROFILE

DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR SCALE AS NOTED
REV. NO. X

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. C-105

DATE 03/22/2023





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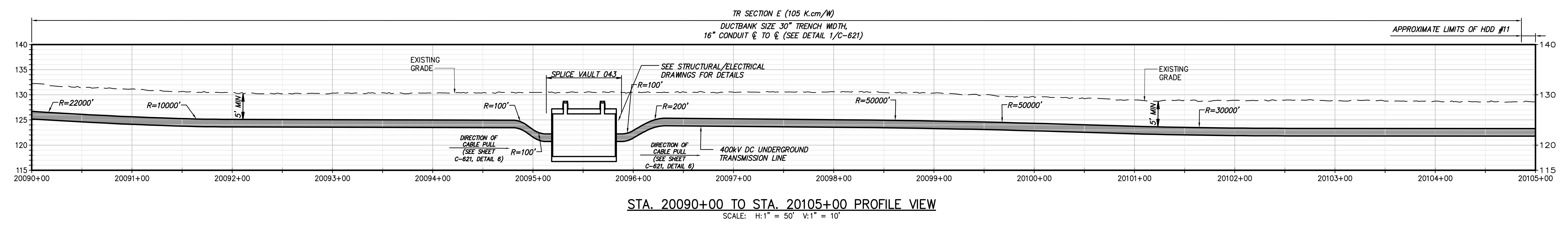
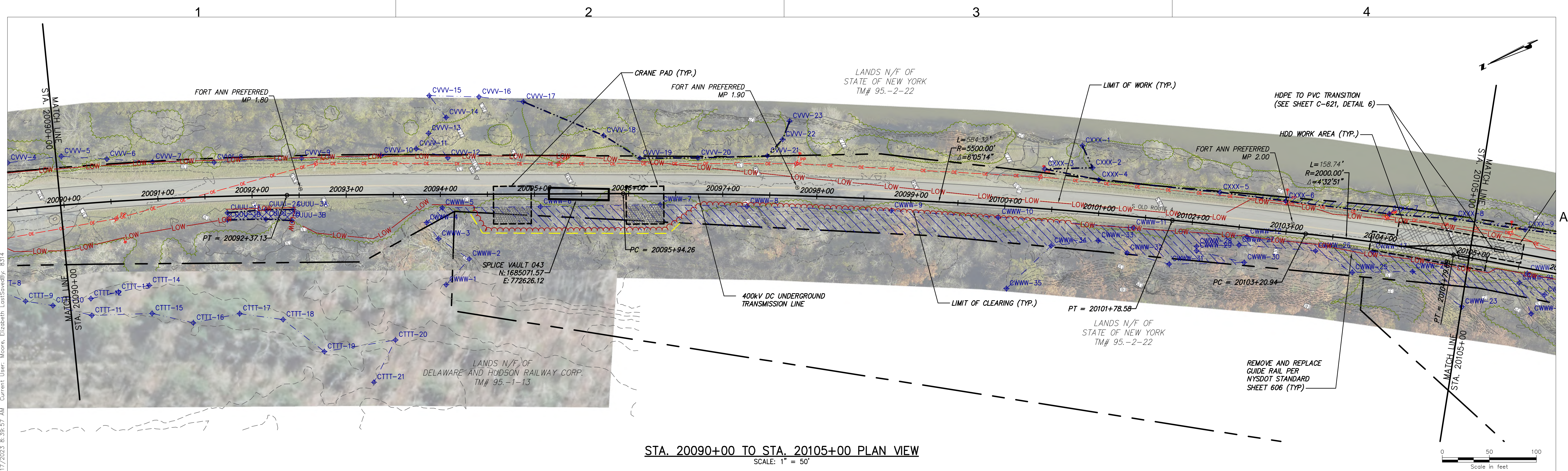
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
STA. 20075+00 TO STA. 20090+00 PLAN AND PROFILE

DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR SCALE AS NOTED
REV. NO. X


KIEWIT PROJECT NO.
21162
CHA PROJECT NO.
068076
DRAWING NO.
C-106

DATE
03/22/2023







Champlain Hudson Power Express



Kiewit



III Winners Circle, PO Box 5269
Albany, NY 12205-0269
518.453.4500 • www.chacompanies.com



STATE OF NEW YORK
JOSEPH P. ROMANO
LICENSED PROFESSIONAL ENGINEER
081993

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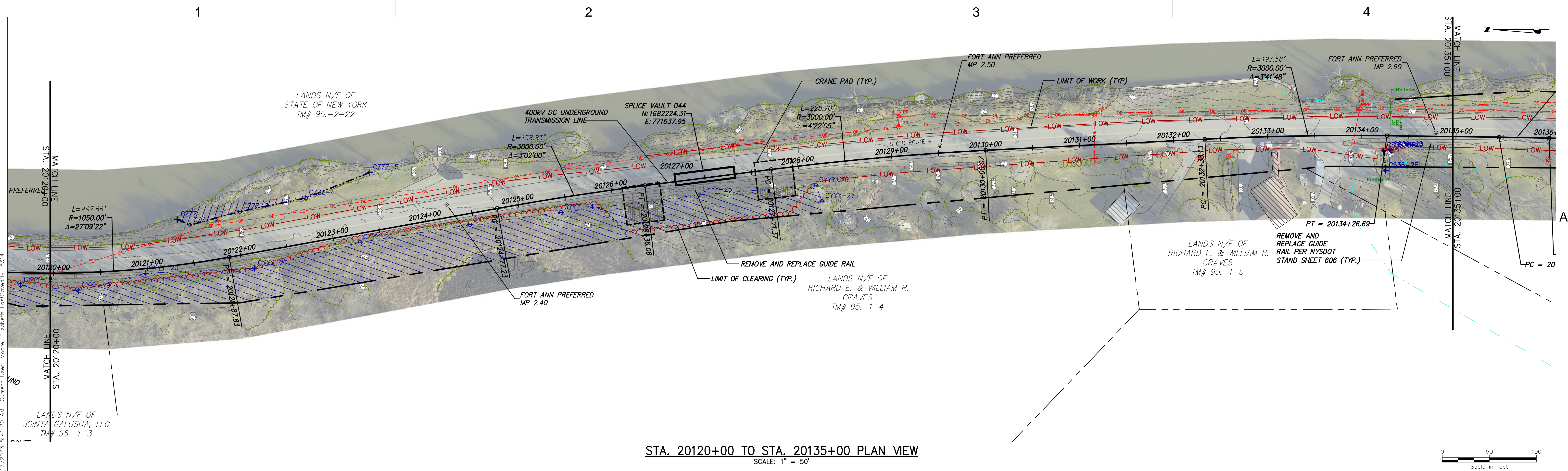
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0	03/22/2023	ISSUED FOR CONSTRUCTION SUBMISSION	JJE	JPR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
STA. 20090+00 TO STA. 20105+00 PLAN AND PROFILE

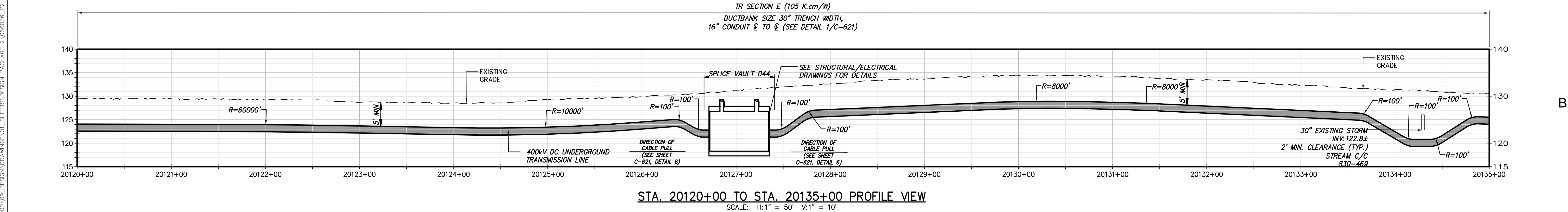
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REV. NO. X

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. C-107





DATE 03/22/2023



STA. 20120+00 TO STA. 20135+00 PLAN VIEW
SCALE: 1" = 50'



STA. 20120+00 TO STA. 20135+00 PROFILE VIEW
SCALE: H:1" = 50' V:1" = 10'



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

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	03/22/2023	ISSUED FOR CONSTRUCTION SUBMISSION	JJE	JPR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
STA. 20120+00 TO STA. 20135+00 PLAN AND PROFILE

DRAWN BY: JJE

DESIGNED BY: JTM

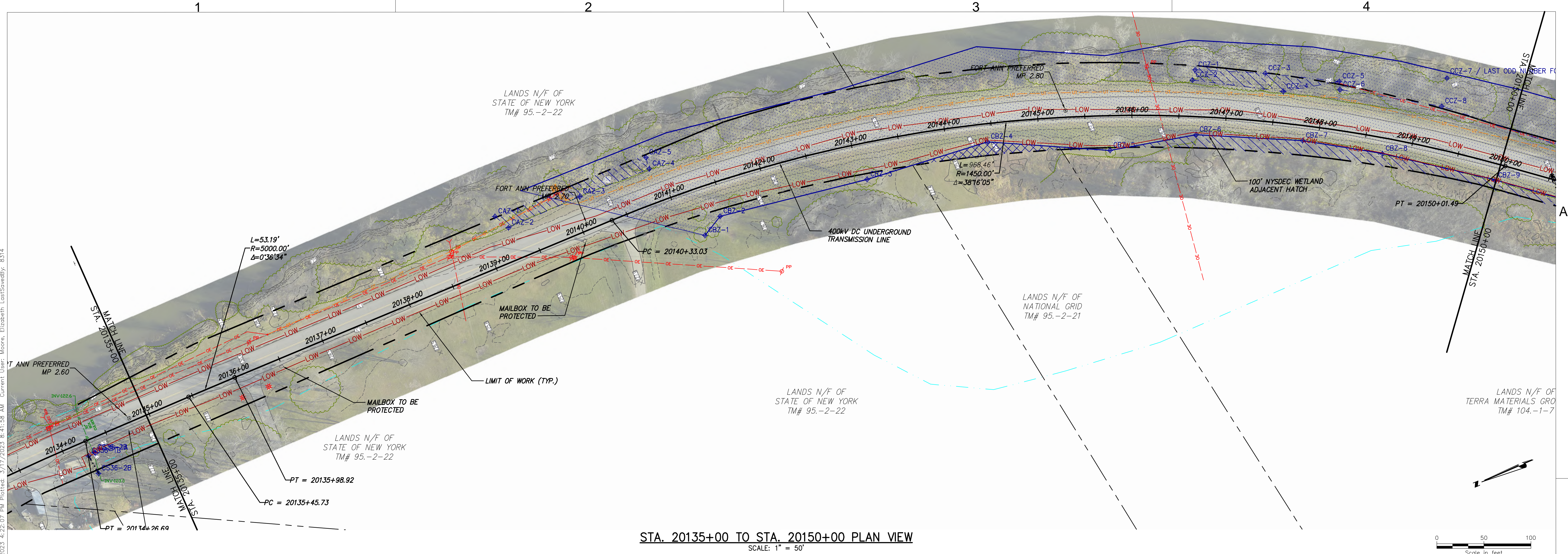
APPROVED BY: JPR

SCALE: AS NOTED

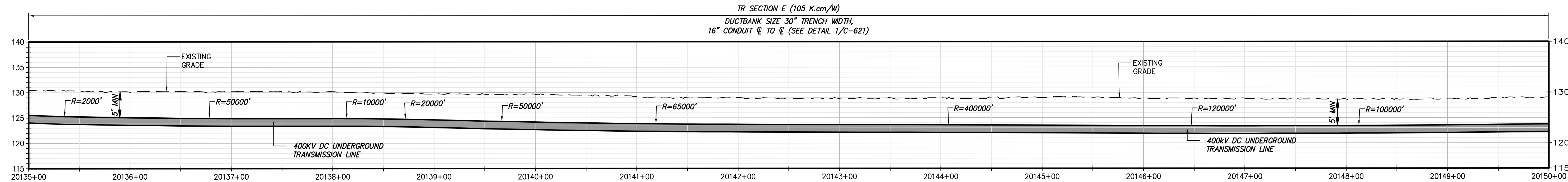
REV. NO. X

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. C-109





DATE 03/22/2023



STA. 20135+00 TO STA. 20150+00 PLAN VIEW
SCALE: 1" = 50'



STA. 20135+00 TO STA. 20150+00 PROFILE VIEW
SCALE: H:1" = 50' V:1" = 10'



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0	03/22/2023	ISSUED FOR CONSTRUCTION SUBMISSION	JJE	JPR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
STA. 20135+00 TO STA. 20150+00 PLAN AND PROFILE

DRAWN BY: JJE

DESIGNED BY: JTM

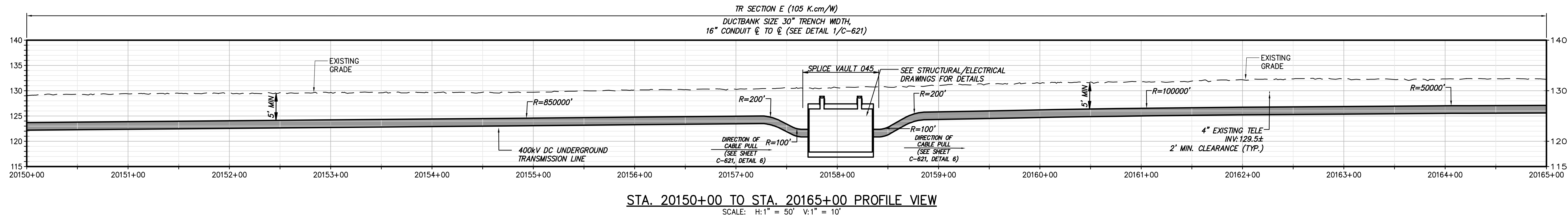
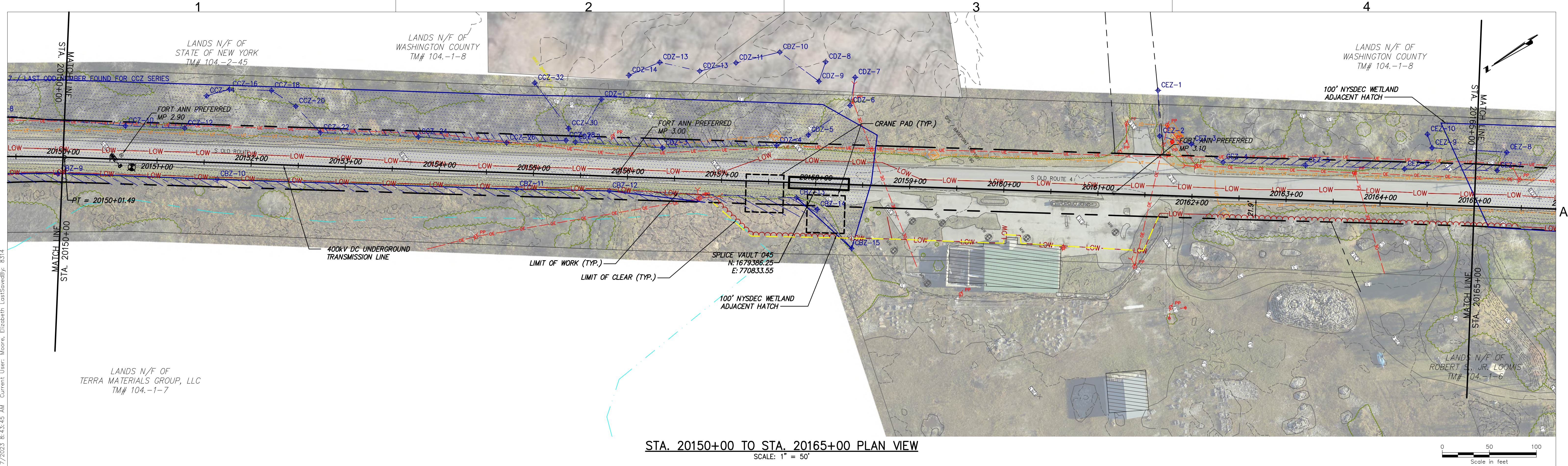
APPROVED BY: JPR


SCALE: AS NOTED

REV. NO. X


KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. C-110

DATE 03/22/2023







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III Winners Circle, PO Box 5269
Albany, NY 12205-0269
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STATE OF NEW YORK
JOSEPH P. ROMANO
LICENSED PROFESSIONAL ENGINEER
081993

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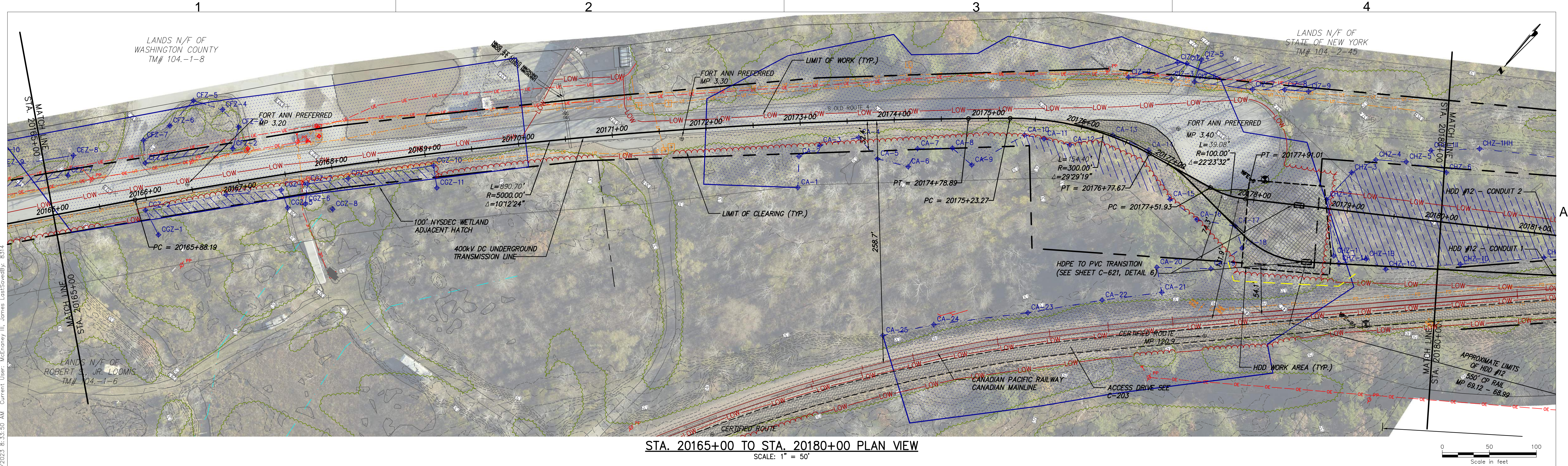
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	03/22/2023	ISSUED FOR CONSTRUCTION SUBMISSION	JJE	JPR

**CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
STA. 20150+00 TO STA. 20165+00 PLAN AND PROFILE**

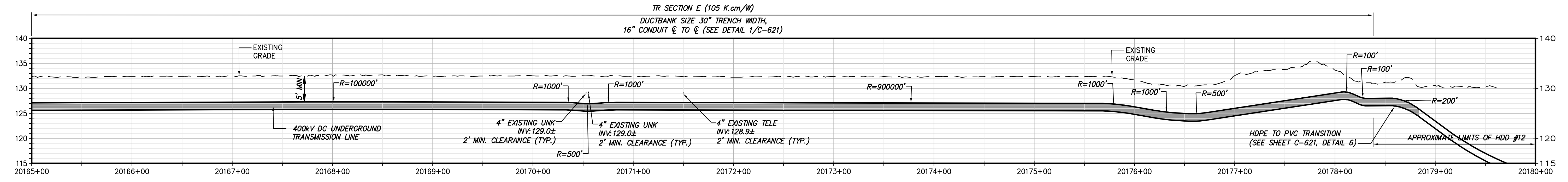
DRAWN BY:	JJE	DESIGNED BY:	JTM	APPROVED BY:	JPR	SCALE:	AS NOTED
						REV. NO.	X

KIEWIT PROJECT NO.
21162
CHA PROJECT NO.
066076
DRAWING NO.
C-111


DATE
03/22/2023




STA. 20165+00 TO STA. 20180+00 PLAN VIEW




STA. 20165+00 TO STA. 20180+00 PROFILE VIEW



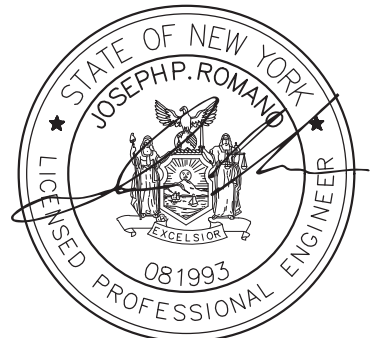
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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
1	04/06/2023	REVISED PER DPS COMMENTS	JJE	JPR
0	03/22/2023	ISSUED FOR CONSTRUCTION SUBMISSION	JJE	JPR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
STA. 20165+00 TO STA. 20180+00 PLAN AND PROFILE

DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR SCALE AS NOTED
REV. NO. X

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. C-112

DATE 03/22/2023