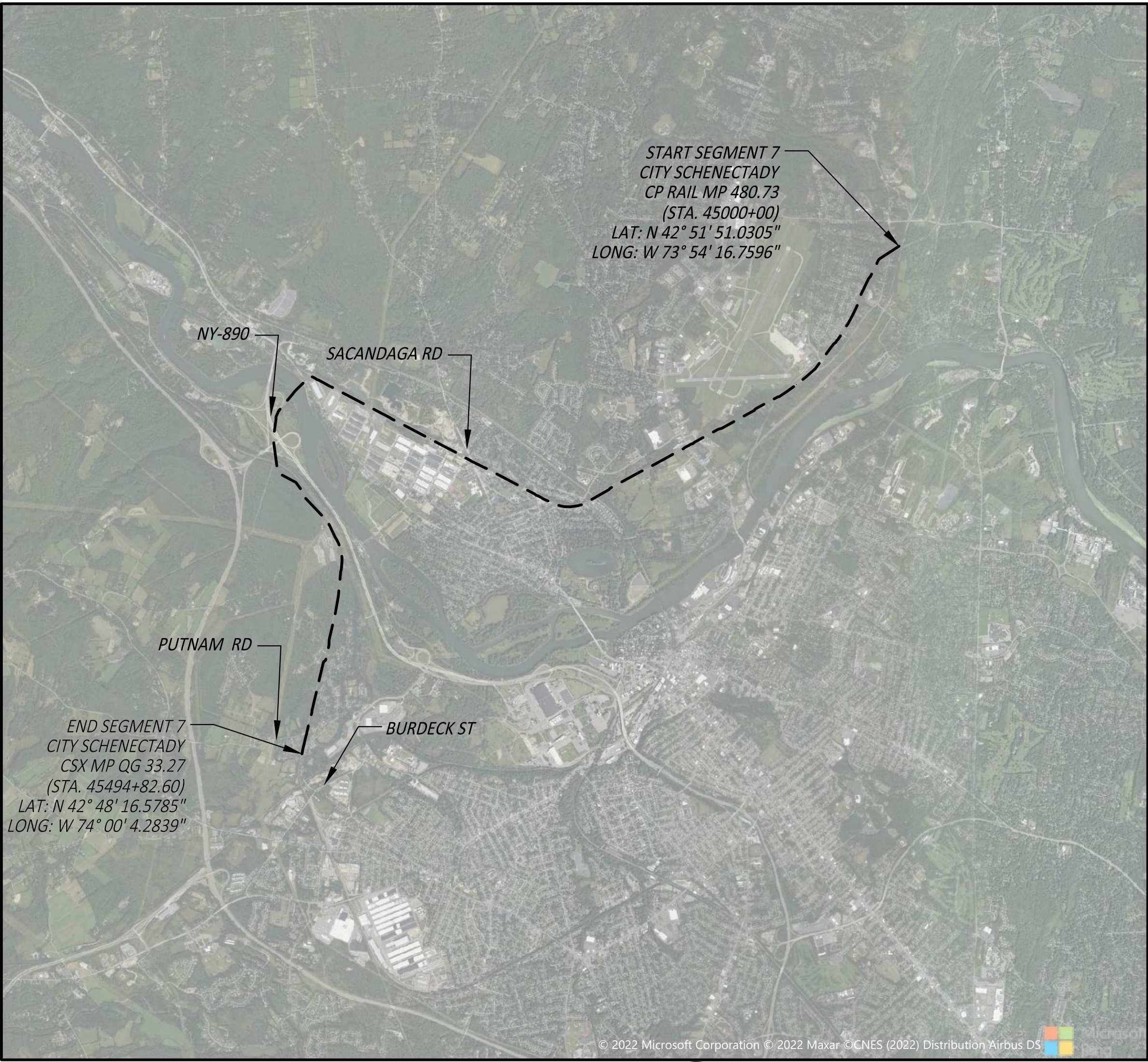
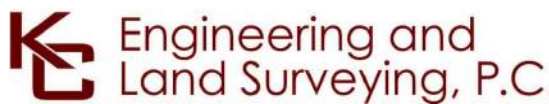


CHAMPLAIN HUDSON POWER EXPRESS

SEGMENT 7 (PACKAGE 4B) - SCHENECTADY SCHENECTADY COUNTY, NEW YORK ISSUED FOR CONSTRUCTION SUBMISSION PLANS



SITE LOCATION MAP
SCALE: 1" = 4000'



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	07/28/2023	ISSUED FOR CONSTRUCTION SUBMISSION	DM	BD	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

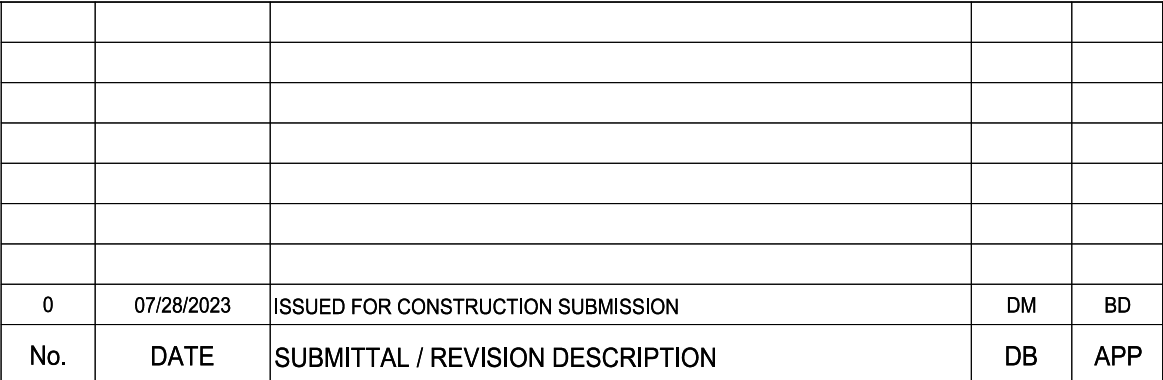
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
COVER SHEET

KIEWIT PROJECT NO.	21162
KC PROJECT NO.	120174
DRAWING NO.	G-000
DATE	07/26/2023
SH.NO.	OF

DRAWN BY:	DESIGNED BY: DM	APPROVED BY: BD	SCALE	AS NOTED
			REV. NO.	0

DISTURBANCE NOTES:

1. THE PROPOSED DISTURBANCE FOR THE TRENCH WILL BE LIMITED TO THE WIDTH OF THE TRENCH SECTIONS DEPICTED ON C-621 INCLUDING THE OPTION TO BENCH OR SLOPE TRENCH WHERE SPACE IS AVAILABLE AND TRENCH IS NOT LOCATED IN A ROADWAY OR IN PAVEMENT.
2. TEMPORARY ACCESS AND WORK AREAS DEPICTED IN THESE PLANS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND REVERTED TO PARTIAL OR EXTENT PRACTICABLE, 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 IN THE DETAIL SHEETS AND THE EMCP NARRATIVE.



GENERAL NOTES

G-002

DATE	07/26/2023
SH.NO.	OF

File: P:\120174-CHPE_CABLE_INSTALL-KIEWIT\60_CAD\20_ENGINEERING_CAD_FILES\PACKAGE_4B\NY_COMMON\01_KCE\1\FILES\21162_P4B-G-004_SURVEY_LEGEND.DWG Saved: 7/19/2023 10:54:33 AM Plotted: 7/26/2023 2:47:38 PM Current User: Devin McKenna LastSavedBy: jramirez

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

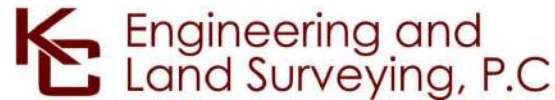
NOTES:

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).

LEGEND & ABBREVIATIONS

	PEM – PALUSTRINE EMERGENT		VEG. CLEARING – TYPE I – HAND CUTTING
	PSS – PALUSTRINE SCRUB–SHRUB		VEG. CLEARING – TYPE II – MECHANICAL CLEARING
	PFO – PALUSTRINE FORESTED		VEG. CLEARING – TYPE III – MOWING
	PUB – PALUSTRINE UNCONSOLIDATED BOTTOM		VEG. CLEARING – TYPE IV – MECHANICAL WHOLE–TREE FELLING
	L1 – LACUSTRINE LIMNETIC		PROP. WETLAND PROTECTION FENCE
	L2 – LACUSTRINE LITTORAL		PROP. COMPOST FILTER SOCK (OR SILT SOCK)
	NYSDEC FWW 100–FOOT ADJACENT BUFFER AREA		CHECK DAM
	ESTIMATED WETLAND BOUNDARY		SURFACE WATER FLOW
	ESTIMATED AGRICULTURAL LAND BOUNDARY		PROP. TEMPORARY SWALE
	FLOODWAY BOUNDARY		STABILIZED CONSTRUCTION ENTRANCE (TYP.)
	1% ANNUAL CHANCE FLOODPLAIN BOUNDARY		PROP. TEMP MAJOR CONTOUR
	0.2% ANNUAL CHANCE FLOODPLAIN BOUNDARY		PROP. TEMP MINOR CONTOUR
	JD BOUNDARY		PROP. LIMITS OF WORK/DISTURBANCE
	APPROX. USACE FEDERAL CHANNEL BOUNDARY (TYP.)		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. WETLAND OR AGRICULTURAL LAND* WORKING SURFACE (SEE SHEET C–613) (*AGRICULTURAL LANDS MAY USE WETLAND WORKING SURFACE OR OTHER APPROVED MITIGATION METHODS)
			PROP. MILLING & RESURFACING
			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
			7' FOUL ZONE: NO VEHICLES, MATERIALS, DISTURBANCE, PERSONNEL, OR WORK SHALL ENCROACH THE ZONE WITHIN 7FT OF THE NEAREST RAIL WITHOUT CSX COORDINATION AND APPROVAL
			PROP. SHORING/SHEETING
			PROP. TEMP EASEMENT
			PROP. PERM EASEMENT
			PROP. TEMP ACCESS EASEMENT
			SPLICE LOCATION POLE MARKER
			UNDERGROUND POWER CABLE POLE MARKER
			PROP. TRANSITION BOX MANHOLE
	DC CABLE IDENTIFICATION TAGS. SEE SHEET C–807 FOR MORE DETAILS		
	TURBIDITY BARRIER		

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
EQNAHD	STATION EQUATION AHEAD
EQNBK	STATION EQUATION BACK
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
NYDEP	NEW YORK CITY DEPT. OF ENVIRONMENT PROTECTION
NYCDOT	NEW YORK CITY DEPT. OF TRANSPORTATION
NYDPR	NEW YORK CITY DEPT. OF PARKS AND RECREATION
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



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	07/28/2023	ISSUED FOR CONSTRUCTION SUBMISSION	DM	BD	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
SURVEY LEGEND

KIEWIT PROJECT NO.	21162
KC PROJECT NO.	120174
DRAWING NO.	G-004
DATE	07/26/2023
SH.NO.	OF

DRAWN BY:	DM	DESIGNED BY:	DM	APPROVED BY:	BD	SCALE	AS NOTED
						REV. NO.	0

File: P:\120174-CHPE-INSTALL-KIEWIT\60_CAD\20_ENGINEERING_CAD_FILES\PACKAGE_4B\NY_COMMON\01_KCE\KEYPLAN_AND_SURVEY_NOTES.DWG Saved: 7/19/2023 11:02:30 AM Plotted: 7/26/2023 2:50:05 PM Current User: Devin McKenna LastSavedBy: jmaritez



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

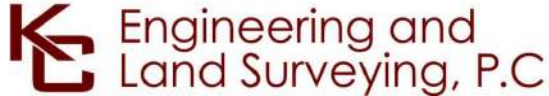
Structure Table				
Structure Name	Station	Northing	Easting	Finished Grade
SPLICE LOCATION 139	45014+29.63	1468096.34	650683.47	RIM = 267.14
SPLICE LOCATION 140	45043+01.80	1465528.78	649428.97	RIM = 282.90
SPLICE LOCATION 141	45067+18.26	1463612.11	647978.30	RIM = 287.97
SPLICE LOCATION 142	45088+86.07	1462365.36	646218.10	RIM = 287.52
SPLICE LOCATION 143	45119+43.00	1460909.54	643542.72	RIM = 287.29
SPLICE LOCATION 144	45151+48.69	1459373.24	640737.46	RIM = 272.25
SPLICE LOCATION 145	45169+77.98	1458483.11	639145.79	RIM = 255.23
SPLICE LOCATION 145A	45201+26.84	1458208.37	636251.49	RIM = 270.66
SPLICE LOCATION 146	45208+36.35	1458537.98	635627.25	RIM = 271.09
SPLICE LOCATION 147	45240+70.99	1460043.57	632765.71	RIM = 288.30
SPLICE LOCATION 148	45273+13.17	1461551.13	629896.39	RIM = 292.43
SPLICE LOCATION 149	45304+55.61	1463017.12	627118.05	RIM = 283.83
SPLICE LOCATION 150	45335+23.18	1461747.54	624904.49	RIM = 231.51
SPLICE LOCATION 151	45363+00.00	1459124.89	625178.51	RIM = 361.90
SPLICE LOCATION 151A	45372+39.29	1458572.39	625913.36	RIM = 370.61
SPLICE LOCATION 152	45404+66.45	1455923.01	627632.73	RIM = 353.49
SPLICE LOCATION 153	45436+89.40	1452744.11	627316.72	RIM = 350.55
SPLICE LOCATION 154	45445+02.35	1451949.87	627150.65	RIM = 357.21
SPLICE LOCATION 154A	45476+92.46	1448875.92	626397.12	RIM = 350.01
SPLICE LOCATION 154B	45491+81.68	1447430.79	626043.83	RIM = 351.20

Structure Table				
Structure Name	Station	Northing	Easting	Finished Grade
LINK BOX HANDHOLE 139	45014+28.46	1468103.19	650672.03	RIM = 265.98
LINK BOX HANDHOLE 143	45119+41.83	1460898.44	643550.10	RIM = 287.08
LINK BOX HANDHOLE 147	45240+69.78	1460033.44	632761.77	RIM = 288.00
LINK BOX HANDHOLE 151	45362+98.83	1459113.73	625171.21	RIM = 365.66
LINK BOX HANDHOLE 154A	45476+91.29	1448874.00	626410.31	RIM = 351.97

Structure Table				
Structure Name	Station	Northing	Easting	Finished Grade
FIBER HAND HOLE 139	45014+90.20	1468041.83	650657.05	RIM = 267.15
FIBER HAND HOLE 140	45043+62.37	1465476.83	649397.82	RIM = 283.00
FIBER HAND HOLE 141	45067+78.83	1463571.83	647933.07	RIM = 289.00
FIBER HAND HOLE 142	45089+46.64	1462336.35	646164.93	RIM = 287.76
FIBER HAND HOLE 143	45120+03.57	1460880.54	643489.54	RIM = 286.00
FIBER HAND HOLE 144	45152+09.26	1459344.24	640684.29	RIM = 272.99
FIBER HAND HOLE 145	45170+38.55	1458453.09	639093.18	RIM = 255.85
FIBER HAND HOLE 145A	45201+87.41	1458236.54	636197.87	RIM = 272.00
FIBER HAND HOLE 146	45208+96.92	1458566.18	635573.65	RIM = 270.19
FIBER HAND HOLE 147	45241+31.56	1460071.72	632712.08	RIM = 288.70
FIBER HAND HOLE 148	45273+73.74	1461579.39	629842.82	RIM = 292.36
FIBER HAND HOLE 149	45305+16.18	1463045.33	627064.45	RIM = 283.02
FIBER HAND HOLE 150	45335+83.75	1461691.99	624880.32	RIM = 232.00
FIBER HAND HOLE 151	45363+60.57	1459096.32	625231.92	RIM = 363.71
FIBER HAND HOLE 151A	45372+99.86	1458523.38	625948.95	RIM = 372.01
FIBER HAND HOLE 152	45405+27.02	1455863.57	627644.39	RIM = 352.00
FIBER HAND HOLE 153	45437+49.97	1452685.11	627303.01	RIM = 350.54
FIBER HAND HOLE 154	45445+62.93	1451889.32	627148.88	RIM = 357.60
FIBER HAND HOLE 154A	45477+53.03	1448816.98	626383.14	RIM = 351.31
FIBER HAND HOLE 154B	45492+42.26	1447371.85	626029.87	RIM = 350.11

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
KEY PLAN

KIEWIT PROJECT NO.		21162
KC PROJECT NO.		120174
DRAWING NO.		G-005
DATE	07/26/2023	
SH.NO.	OF	



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	07/28/2023	ISSUED FOR CONSTRUCTION SUBMISSION	DM	BD	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

DRAWN BY:	DM	DESIGNED BY:	DM	APPROVED BY:	BD	SCALE	AS NOTED
				REV. NO.	0		

Table 4.1 - HDD Locations

Segment/ Package	HDD Designation	Length (feet)	Reason for HDD	Sheet	Location (Approximate- see Drawings for Details)
S7/P4B	HDD#62	830/875	NYSDOT Road (Maple Ave)	C-101	45000+80 to 45009+50
S7/P4B	HDD#62A	714/729	Stream C-PA-S6	C-102	45019+80 to 45027+05
S7/P4B	HDD#63	1236	NYSDOT Road (Ronald Reagan Way), Streams C-PA-S4 and C-PA- S3, Railroad	C-104 to C-105	45052+33 to 45064+70
S7/P4B	HDD#64	1300	Trout Stream C-PA-S2 (876-88) /Wetland C-PA-B and C-PA-C	C-107 to C-108	45098+36 to 45112+07
S7/P4B	HDD#64A	935	Culverts	C-110	45139+75 to 45149+00
S7/P4B	HDD#65A	2752/2591	NYSDOT Road/Bridge	C-112 to C-113	45171+50 to 45199+00
S7/P4B	HDD#66	970	NYSDOT Road	C-116	45228+90 to 45238+60
S7/P4B	HDD#67	690/885	Rail	C-119 to C-120	45279+50 to 45287+30
S7/P4B	HDD#68	1895/1898	Mohawk River	C-122	45314+10 to 45333+00
7/4B	HDD#69	2216/2211	Road (I-890)/Rail	C-123 to C-124	45337+00 to 45359+10
S7/P4B	HDD#69A	2331	Rail/Culvert	C-124 to C-126	45375+40 to 45399+50
S7/P4B	HDD#70A	1794/1796	Rail	C-126 to C-127	45414+70 to 45432+90
S7/P4B	HDD#70B	607/609	Road	C-130 to C-131	45447+45 to 45453+45

Note: Table 4.1 describes the locations of HDD activity within this Package. HDD will be performed in accordance with the Horizontal Direction Drilling Site Investigation and Planning Report and Inadvertent Release and Contingency Plan in Appendix J, the specifications described in Section 4.3.1, and the BMP document.

PACKAGE 4B – HDD LOCATIONS

Table 5.2 – Construction Materials and Equipment Staging
Locations

Segment/ Package	Sheet Number	Location (Approximate- see Drawings for Details)	Staging Area Description
S7/P4B	C-101	45000+80	HDD-62 Entry Area
S7/P4B	C-101	45009+50	HDD-62 Exit Area
S7/P4B	C-102	45019+80	HDD-62A Entry Area
S7/P4B	C-102	45027+05	HDD-62A Exit Area
S7/P4B	C-104	45052+33	HDD-63 Entry Area
S7/P4B	C-105	45064+70	HDD-63 Exit Area
S7/P4B	C-107	45098+36	HDD-64 Entry Area
S7/P4B	C-108	45112+07	HDD-64 Exit Area
S7/P4B	C-110	45139+75	HDD-64A Entry Area
S7/P4B	C-110	45149+00	HDD-64A Exit Area
S7/P4B	C-112	45171+50	HDD-65A Entry Area
S7/P4B	C-114	45199+00	HDD-65A Exit Area
S7/P4B	C-116	45228+90	HDD-66 Entry Area
S7/P4B	C-116	45238+60	HDD-66 Exit Area
S7/P4B	C-119	45279+50	HDD-67 Entry Area
S7/P4B	C-120	45287+30	HDD-67 Exit Area
S7/P4B	C-122	45314+10	HDD-68 Entry Area
S7/P4B	C-122	45333+00	HDD-68 Exit Area
S7/P4B	C-123	45337+00	HDD-69 Entry Area
S7/P4B	C-124	45359+10	HDD-69 Exit Area
S7/P4B	C-124	45375+40	HDD-69A Entry Area
S7/P4B	C-126	45399+50	HDD-69A Exit Area
S7/P4B	C-126	45414+70	HDD-70A Entry Area
S7/P4B	C-127	45432+90	HDD-70A Exit Area
S7/P4B	C-130	45447+45	HDD-70B Entry Area
S7/P4B	C-131	45453+45	HDD-70B Exit Area
See EM&CP for Laydown Yards			Bethlehem Laydown Yard

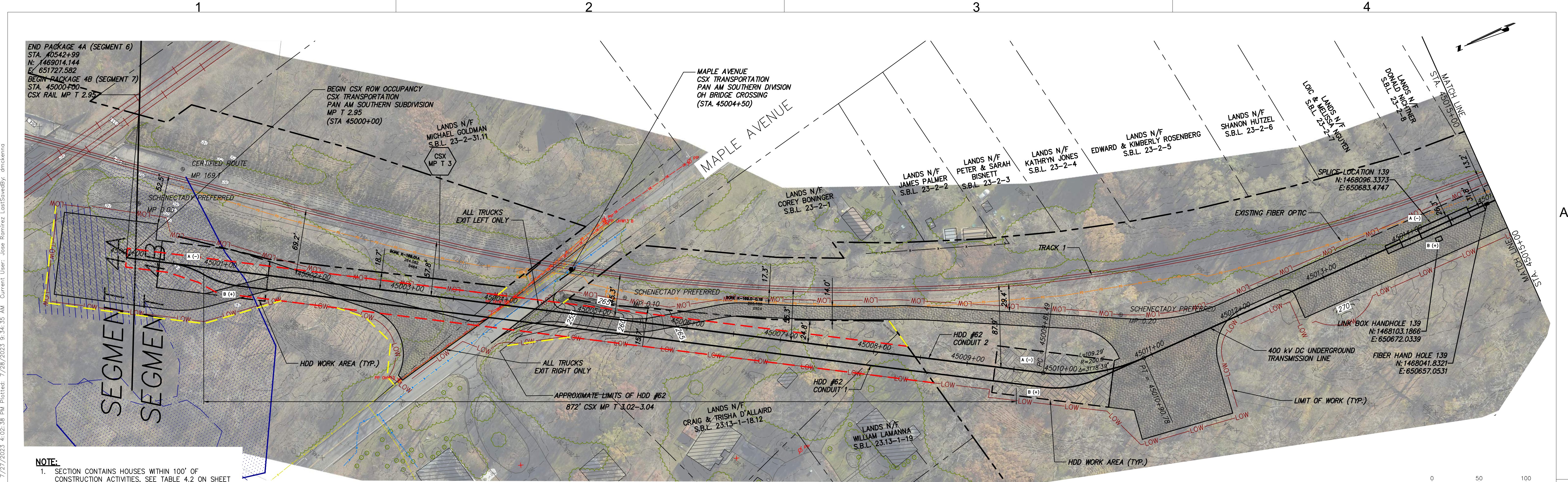
Note: Table 5.2 summarizes the locations of where construction materials and equipment will be temporarily staged during the construction of this Package. Section 5.4 summarizes the procedures that will be followed for the storage and staging of all construction materials and equipment.

PACKAGE 4B – CONSTRUCTION MATERIALS AND EQUIPMENT
STAGING LOCATIONS

Table 4.2 - Structures within 100 Feet of HDD or Trenching Operations

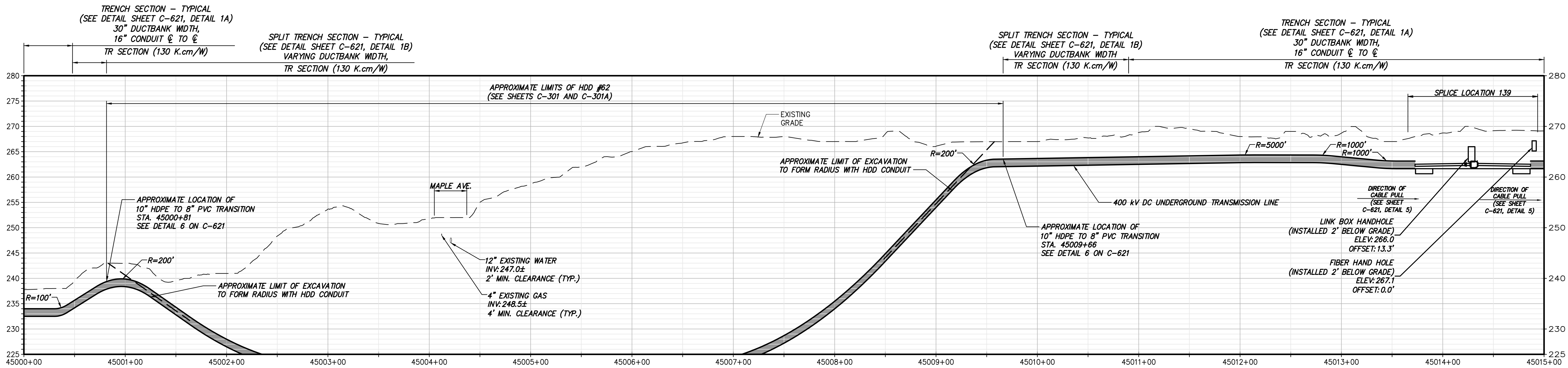
HDD#/ Trench	Structure	Parcel ID	Sheet Number	Location (Approximate – see Drawings for Details)	Notes
HDD#62	Shed – Private Residence	23.13-1-18.12	C-101	45007+00	W. Side of Maple Ave.
Trench	Private Residence	23.13-1-19	C-101	45008+00	E. Side of Maple Ave.
HDD#62A	Private Residence	23.17-1-50	C-102	45024+00	E. Side of Acorn Dr
HDD#62A	Private Residence	23.17-1-50	C-102	45025+00	E. Side of Acorn Dr
Trench	Shed – Private Residence	23.17-1-38	C-102	45029+00	E. Side of Acorn Dr.
Trench	Private Residence	23.17-1-39	C-103	45030+00	E. Side of Valleywood Dr.
Trench	Shed – Private Residence	23.17-1-37	C-102	45031+00	E. Side of Valleywood Dr.
Trench	Shed & Pool – Private Residence	23.17-1-36	C-103	45032+00	E. Side of Valleywood Dr.
Trench	Shed – Private Residence	23.17-1-35	C-103	45033+00	E. Side of Valleywood Dr.
Trench	Pool – Private Residence	23.17-1-34	C-103	45034+00	E. Side of Valleywood Dr.
Trench	Private Residence	23.17-1-33	C-103	45035+00	E. Side of Valleywood Dr.
Trench	Shed & Pool – Private Residence	23.17-1-32	C-103	45036+00	E. Side of Valleywood Dr.
Trench	Private Residence	23.17-1-31	C-103	45037+00	E. Side of Valleywood Dr.
Trench	Private Residence	22.4-1-23	C-103	45039+00	E. Side of Valleywood Dr.
Trench	Private Residence	22.4-1-24	C-103	45040+00	E. Side of Valleywood Dr.
Trench	Shed – Private Residence	23-2-22	C-103	45041+00	W. Side of Maple Ave.
Trench	Shed – Private Residence	23-2-21	C-103	45044+50	W. Side of Maple Ave.
Trench	Shed – Private Residence	23-2-20	C-103	45044+50	W. Side of Maple Ave.
Trench	Pool – Private Residence	22.4-1-25	C-103	45042+00	E. Side of Valleywood Dr.
Trench	Shed – Private Residence	22.4-1-26	C-103	45043+00	E. Side of Valleywood Dr.
Trench	Shed – Private Residence	23-2-19	C-104	45046+50	W. Side of Maple Ave.
Trench	Pool – Private Residence	22.4-1-28	C-104	45045+00	E. Side of Valleywood Dr.
Trench	Pool & Shed – Private Residence	22.4-1-30	C-104	45047+50	E. Side of Valleywood Dr.
Trench	Shed - Private Residence	23-2-18	C-104	45048+75	W. Side of Maple Ave.
Trench	Shed – Private Residence	22.4-1-31	C-104	45048+00	E. Side of Valleywood Dr.
Trench	Private Residence	22.4-1-32	C-104	45049+00	E. Side of Valleywood Dr.
Trench	Private Residence	22.4-1-33	C-104	45052+00	E. Side of Valleywood Dr.
Trench	Shed – Private Residence	22-1-17	C-104	45051+50	W. Side of Maple Ave.
Trench	Pool – Private Residence	22.4-1-34	C-104	45052+75	E. Side of Valleywood Dr.
Trench	Shed - Private Residence	30-1-6.12	C-107	45091+00	W. Side of Maple Ave.
Trench	Private Residence	30-1-6.12	C-107	45094+00	W. Side of Maple Ave.
Trench	Storage Tanks	30.15-1-15	C-109	45121+25	E. Side of Freemans Bridge Rd.
Trench	Commercial Building	30.14-1-11.1	C-109	45132+00	W. Side of Freemans Bridge Rd. South of RR ROW
Trench	Commercial Building	30.14-2-12	C-109	45132+00	W. Side of Freemans Bridge Rd. North of RR ROW
Trench	Private Residences	30-1-24.51	C-111	45161+00	Development currently being built.
Trench	Private Residences	30-1-24.51	C-111	45163+00	Development currently being built.
HDD#65A	Private Residences	30.78-2-1.1	C-112	45177+00	N. Side of Cambridge Manor Dr.
HDD#65A	Electric Substation	30.77-2-29.11	C-112	45178+75	N. Side of Washington Ave.
HDD#65A	Private Residence	30.77-1-11	C-113	45184+50	N. Side of 5 th St.
HDD#65A	Private Residence	30.77-1-13	C-113	45185+00	N. Side of 5 th St.
HDD#65A	Private Residence	30.77-1-14	C-113	45186+50	N. Side of 5 th St.
HDD#65A	Private Residence	30.77-1-15	C-113	45187+00	N. Side of 5 th St.
HDD#65A	Private Residence	30.77-1-16	C-113	45188+00	N. Side of 5 th St.
HDD#65A	Private Residence	30.77-1-17	C-113	45189+00	N. Side of 5 th St.
HDD#65A	Private Residence	30.77-1-18	C-113	45190+00	N. Side of 5 th St.
HDD#65A	Private Residence	30.77-1-19.11	C-113	45191+00	N. Side of 5 th St.
HDD#65A	Private Residence	30.77-1-47.21	C-113	45191+50	N. Side of 5 th St.
HDD#65A	Private Residence	30.77-1-46.11	C-113	45192+50	N. Side of 5 th St.
HDD#65A	Private Residence	30.77-1-20.111	C-113	45193+00	N. Side of 5 th St.
HDD#65A	Shed & Private Residence	30.77-1-5	C-113	45186+00	S. Side of Pershing Dr.
HDD#65A	Shed - Private Residence	30.77-1-3	C-113	45187+50	S. Side of Pershing Dr.
HDD#65A	Shed - Private Residence	30.77-1-2	C-113	45188+00	S. Side of Pershing Dr.
HDD#65A	Shed - Private Residence	30.77-1-1	C-113	45189+00	S. Side of Pershing Dr.
HDD#65A /Trench	Industrial Building	29.84-2-2	C-114	45197+00	E. Side of Vley Rd.
Trench	Commercial Building	29.84-2-2	C-114	45199+25	E. Side of Vley Rd.
Trench	Commercial Building	29.84-2-2	C-114	45203+00	E. Side of Vley Rd.
Trench	Commercial Building	29.84-2-1	C-114	45204+00	E. Side of Vley Rd. N. Side of RR ROW.
Trench	Commercial Building	29.76-1-18	C-114	45204+00	W. Side of Vley Rd
Trench	Municipal Building	29.75-1-17.11	C-114	45206+00	N. Side of Zoar Ct.
Trench	Municipal Building	29.75-1-17.11	C-114	45209+00	N. Side of Zoar Ct.
Trench	Garage – Private Residence	29.75-1-17	C-115	45210+00	N. Side of Craigie Ave.
Trench	Shed - Private Residence	29.75-1-16.2	C-115	45213+00	N. Side of Craigie Ave.
Trench	Shed - Private Residence	29.75-1-15	C-115	45213+50	N. Side of Craigie Ave.
Trench	Shed Private Residence	29.75-1-14	C-115	45214+00	N. Side of Craigie Ave.
Trench	Private Residence	29.75-1-31	C-115	45215+00	S. Side of Watercrest Dr.
Trench	Private Residence	29.75-1-39	C-115	45215+50	S. Side of Watercrest Dr.
Trench	Pool & Shed - Private Residence	29.75-1-12	C-115	45216+00	N. Side of Craigie Ave.
Trench	Private Residence	29.75-1-29	C-115	45216+00	S. Side of Watercrest Dr.

Trench	Shed - Private Residence	29.75-1-28	C-115	45216+50	S. Side of Watercrest Dr.
Trench	Private Residence	29.75-1-11	C-115	45217+00	N. Side of Craigie Ave.
Trench	Private Residence	29.75-1-10	C-115	45217+50	N. Side of Craigie Ave.
Trench	Pool & Shed - Private Residence	29.67-1-4	C-115	45217+00	S. Side of Watercrest Dr.
Trench	Private Residence	29.67-1-5	C-115	45217+50	S. Side of Watercrest Dr.
Trench	Private Residence	29.75-1-9	C-115	45218+00	N. Side of Craigie Ave.
Trench	Private Residence	29.67-1-6	C-115	45218+50	S. Side of Watercrest Dr.
Trench	Private Residence	29.78-1-8	C-115	45218+75	N. Side of Craigie Ave.
Trench	Private Residence	29.75-1-7	C-115	45219+00	N. Side of Craigie Ave.
Trench	Shed – Private Residence	29.67-1-7	C-115	45219+50	N. Side of Craigie Ave.
Trench	Private Residence	29.75-1-6	C-115	45219+50	N. Side of Craigie Ave.
Trench	Private Residence	29.75-1-4	C-115	45220+50	N. Side of Craigie Ave..
Trench	Private Residence	29.75-1-3	C-115	45221+00	N. Side of Craigie Ave.
Trench	Private Residence	29.75-1-1.1	C-115	45222+25	N. Side of Craigie Ave.
Trench	Private Residence	29.66-1-17.1	C-115	45224+00	N. Side of Craigie Ave.
Trench	Shed – Private Residence	29.66-1-14	C-116	45227+00	S. Side of Mac Arthur Dr.
Trench	Pool – Private Residence	29.66-1-13	C-116	45227+50	S. Side of Mac Arthur Dr.
HDD#66	Pool – Private Residence	29.66-1-12	C-116	45228+25	S. Side of Mac Arthur Dr.
HDD#66	Pool – Private Residence	29.66-1-11	C-116	45228+75	S. Side of Mac Arthur Dr.
HDD#66	Shed – Private Residence	29.66-1-10	C-116	45229+25	S. Side of Mac Arthur Dr.
HDD#66	Commercial Building	29.66-1-22.1	C-116	45230+00	N. Side of Merline Ave.
HDD#66	Shed – Private Residence	269.66-1-22.1	C-116	45231+25	N. Side of Merline Ave.
HDD#66	Shed – Private Residence	29.66-1-9	C-116	45229+75	S. Side of Mac Arthur Dr.
HDD#66	Shed – Private Residence	29.66-1-8	C-116	45230+25	S. Side of Mac Arthur Dr.
HDD#66	Shed – Private Residence	29.66-1-7	C-116	45231+00	S. Side of Mac Arthur Dr.
HDD#66	Shed – Private Residence	29.66-1-6	C-116	45231+50	S. Side of Mac Arthur Dr.
HDD#66	Shed – Private Residence	29.66-1-5	C-116	45231+75	S. Side of Mac Arthur Dr.
HDD#66	Shed – Private Residence	29.66-1-4	C-116	45232+25	S. Side of Mac Arthur Dr.
HDD#66	Shed – Private Residence	29.66-1-3	C-116	45232+75	S. Side of Mac Arthur Dr.
HDD#66	Shed – Private Residence	29.66-1-2	C-116	45233+25	S. Side of Mac Arthur Dr.
HDD#66	Shed – Private Residence	29.66-1-1	C-116	45234+00	S. Side of Mac Arthur Dr.
HDD#66	Commercial Building	29.66-1-24	C-116	45232+00	E. Side of NYS Rt. 147
HDD#66	Industrial Building	29-3-2.41	C-116	45237+00	W. Side of NYS Rt. 147
HDD#66	Industrial Building	29-2-19.1	C-116	45240+00	W. Side of NYS Rt. 147
Trench	Industrial Building	29-2-18.2	C-117	45244+00	W. Side of NYS Rt. 147
Trench	Industrial Building	29-2-14.111	C-117	45245+00	W. Side of NYS Rt. 147
Trench	Industrial Building	29-3-2.41	C-117	45248+00	N. Side of Patent Pkwy.
Trench	Industrial Building	29-3-2.31/30-1-2.1	C-117	45252+25	N. Side of Patent Pkwy.
Trench	Industrial Building	29-3-2.31/30-1-2.1	C-117	45254+00	N. Side of Patent Pkwy.
Trench/HD D#67	Industrial Building	29-3-24.1	C-119	45275+00	N. Side of 1 st St.
HDD#67	Sheds	29-3-24.1	C-119	45284+00	N. Side of 1 st St.
Trench	Industrial Building	29-3-1.12	C-121	45310+00	N. Side of NYS Route 5 (Amsterdam Rd)
HDD#69A	Electric Tower	38-1-2.31	C-127	45395+50	W. Side of NYS Rt. 890
HDD#70B/ Trench	Private Residence	38.17-3-1	C-131	45453+50	W. Side of Sylvia Ln.
Trench	Shed – Private Residence	38.17-3-2	C-131	45456+00	W. Side of Sylvia Ln.
Trench	Private Residence	38.17-3-47	C-131	45448+50	W. Side of Sylvia Ln.
Trench	Private Residence	38.17-3-46	C-131	45460+00	W. Side of Sylvia Ln.
Trench	Shed & Private Residence	38.17-3-45	C-131	45460+50	W. Side of Sylvia Ln.
Trench	Shed & Private Residence	38.17-3-44	C-131	45461+50	W. Side of Sylvia Ln.
Trench	Private Residence	38.17-3-43	C-131	45462+50	W. Side of Sylvia Ln.
Trench	Private Residence	38.17-3-42	C-131	45463+00	W. Side of Sylvia Ln.
Trench	Private Residence	38.17-3-41	C-131	45464+00	W. Side of Sylvia Ln.
Trench	Private Residence	38.17-3-40	C-131	45464+50	W. Side of Sylvia Ln.
Trench	Private Residence	38.17-3-39	C-132	45465+50	W. Side of Sylvia Ln.
Trench	Private Residence	38.17-3-38	C-132	45466+50	W. Side of Sylvia Ln.
Trench	Private Residence	38.17-3-37	C-132	45467+00	W. Side of Sylvia Ln.
Trench	Private Residence	38.17-3-52	C-132	45468+00	W. Side of Sylvia Ln.
Trench	Private Residence	38.17-3-51	C-132	45468+75	W. Side of Iovinnella Ct.
Trench	Private Residence	38.17-3-50	C-132	45469+50	W. Side of Iovinnella Ct.
Trench	Private Residence	38.17-3-78	C-132	45470+50	W. Side of Iovinnella Ct.
Trench	Shed & Private Residence	38.17-3-77	C-132	45471+00 & 45471+50	W. Side of Iovinnella Ct.
Trench	Private Residence	38.17-3-76	C-132	45472+00	W. Side of Iovinnella Ct.
Trench	Sheds & Private Residence	48.5-2-11	C-133	45487+00	S. Side of Putnam Rd.
Trench	Railroad Structure	38-1-20.5	C-133	45487+50	S. Side of Putnam Rd.
Trench	Shed - Private Residence	48.5-2-30	C-133	45489+00	W. Side of Princetown Rd.
Trench	Shed, Pool, & Private Residence	48.5-2-31	C-133	45489+50	W. Side of Princetown Rd.
Trench	Private Residence	48.5-2-32	C-133	45490+50	E. Side of Princetown Rd.
Note: Table 4.2 identifies the building structures located within 100 feet of trenching and HDD activities for this Package. Section 4.3.2 summarizes the procedures for vibration monitoring where applicable.					







NOTE:
1. SECTION CONTAINS HOUSES WITHIN 100' OF CONSTRUCTION ACTIVITIES, SEE TABLE 4.2 ON SHEET G-013. WHEN WITHIN 100', CONTRACTOR TO FOLLOW NOISE CONTROL MEASURES AS IDENTIFIED IN SECTION 10.2 OF THE EM&CP.

STA. 45000+00 TO STA. 45015+00 PLAN VIEW
SCALE: 1" = 50'



STA. 45000+00 TO STA. 45015+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	07/28/2023	ISSUED FOR CONSTRUCTION SUBMISSION	DM	BD

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
STA. 45000+00 TO STA. 45015+00 PLAN AND PROFILE

DRAWN BY: DM

DESIGNED BY: DM

APPROVED BY: BD

SCALE

AS NOTED

DATE

07/26/2023

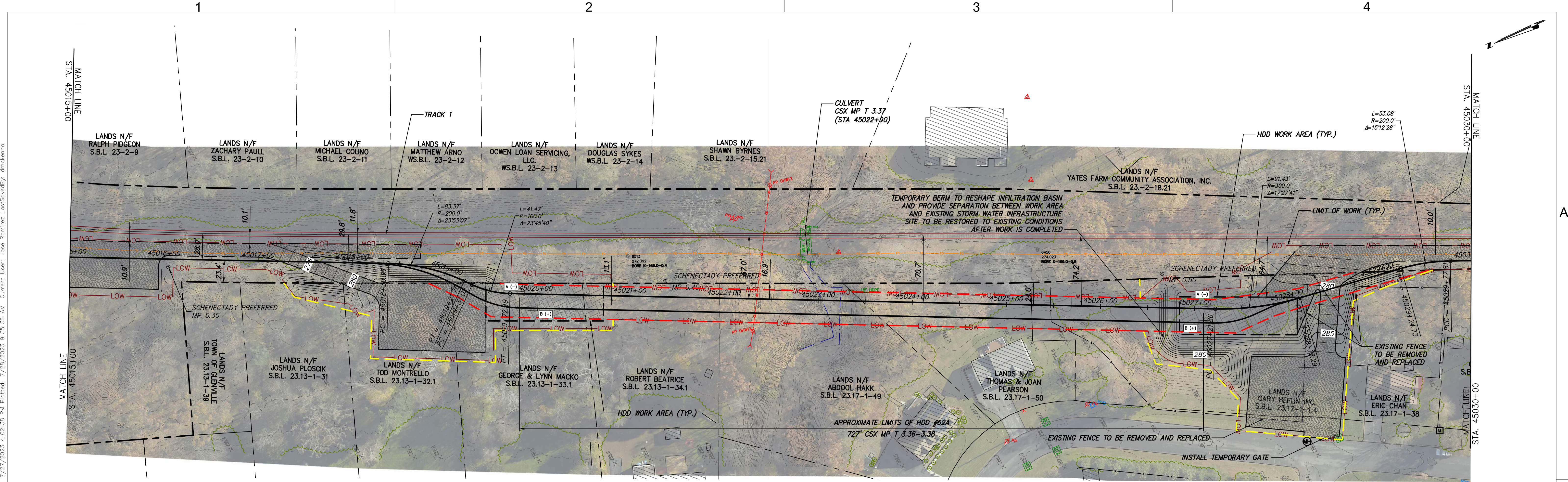
KIEWIT PROJECT NO.
21162
KC PROJECT NO.
120174
DRAWING NO.
C-101

DATE

07/26/2023

SH.NO.

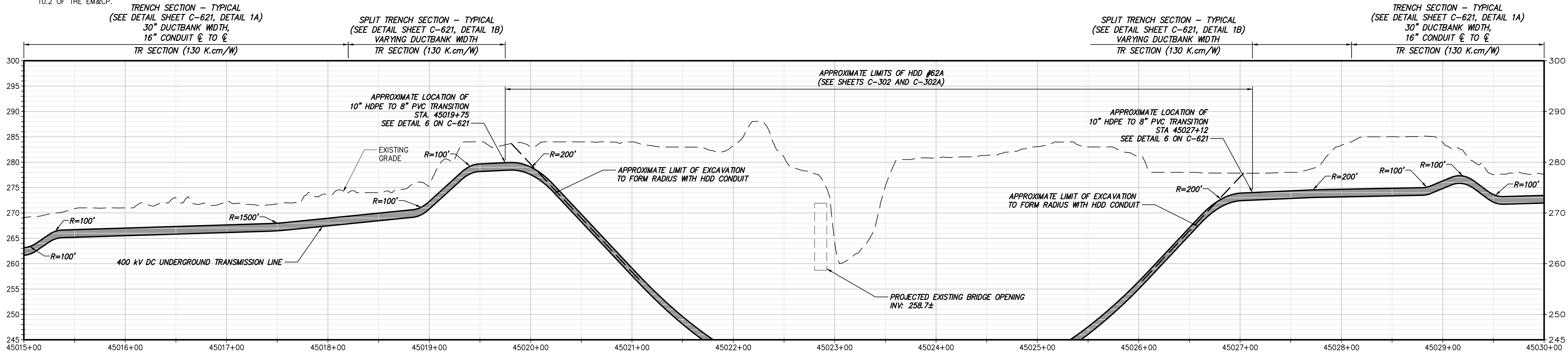
OF







NOTE:
1. SECTION CONTAINS HOUSES WITHIN 100' OF CONSTRUCTION ACTIVITIES, SEE TABLE 4.2 ON SHEET G-013. WHEN WITHIN 100', CONTRACTOR TO FOLLOW NOISE CONTROL MEASURES AS IDENTIFIED IN SECTION 10.2 OF THE EM&CP.

STA. 45015+00 TO STA. 45030+00 PLAN VIEW
SCALE: 1" = 50'

0 50 100
Scale in feet



STA. 45015+00 TO STA. 45030+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	07/28/2023	ISSUED FOR CONSTRUCTION SUBMISSION	DM	BD

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
STA. 45015+00 TO STA. 45030+00 PLAN AND PROFILE

DRAWN BY: DM

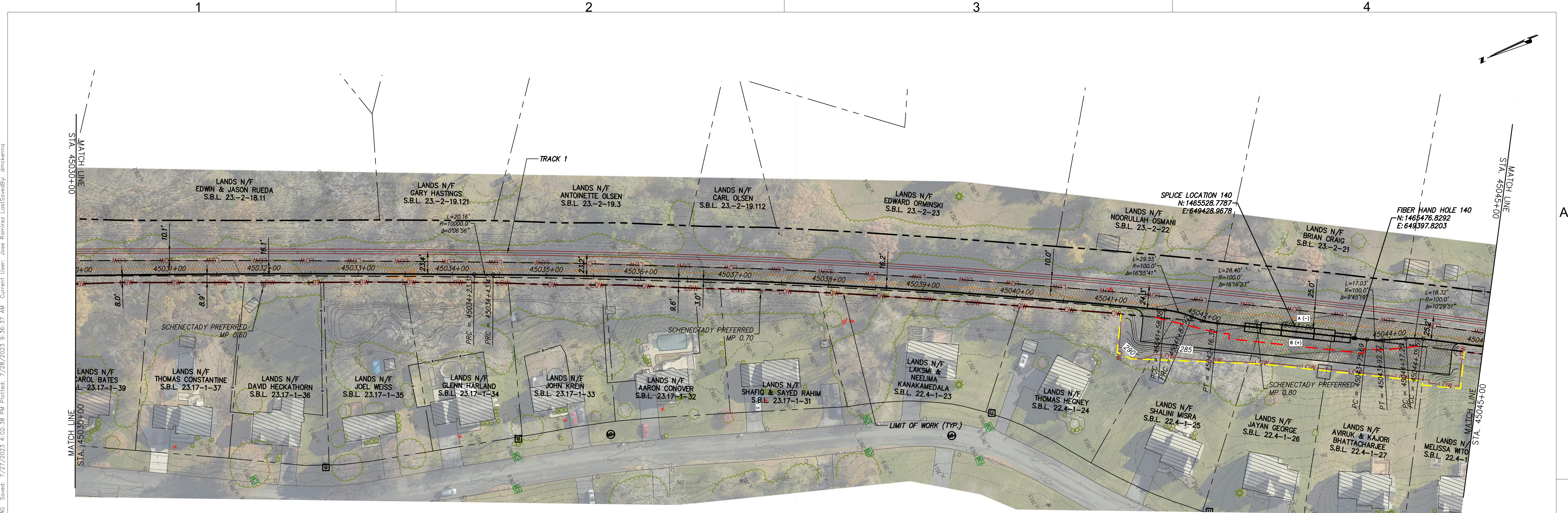
DESIGNED BY: DM

APPROVED BY: BD

SCALE: AS NOTED

KIEWIT PROJECT NO. 21162
KC PROJECT NO. 120174
DRAWING NO. **C-102**

DRAWN BY: DM
DESIGNED BY: DM
APPROVED BY: BD
SCALE: AS NOTED
DATE: 07/26/2023
SH.NO. OF

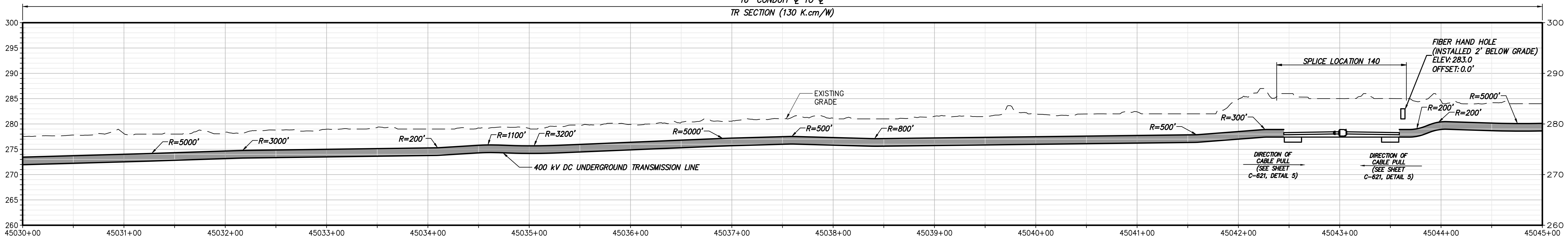


NOTE:
1. SECTION CONTAINS HOUSES WITHIN 100' OF CONSTRUCTION ACTIVITIES, SEE TABLE 4.2 ON SHEET G-013. WHEN WITHIN 100', CONTRACTOR TO FOLLOW NOISE CONTROL MEASURES AS IDENTIFIED IN SECTION 10.2 OF THE EM&CP.





STA. 45030+00 TO STA. 45045+00 PLAN VIEW
SCALE: 1" = 50'



TRENCH SECTION - TYPICAL
(SEE DETAIL SHEET C-621, DETAIL 1A)
30" DUCTBANK WIDTH,
16" CONDUIT ϕ TO ϕ
TR SECTION (130 K.cm/W)



STA. 45030+00 TO STA. 45045+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	07/28/2023	ISSUED FOR CONSTRUCTION SUBMISSION	DM	BD

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
STA. 45030+00 TO STA. 45045+00 PLAN AND PROFILE

DRAWN BY: DM

DESIGNED BY: DM

APPROVED BY: BD

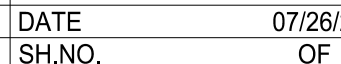
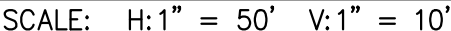
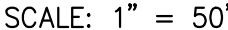
SCALE: AS NOTED

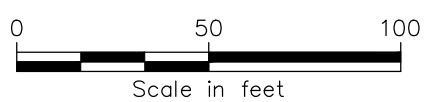
DATE: 07/26/2023

KIEWIT PROJECT NO. 21162
KC PROJECT NO. 120174
DRAWING NO. **C-103**

DATE OF 07/26/2023







1. SECTION CONTAINS HOUSES WITHIN 100' OF CONSTRUCTION ACTIVITIES, SEE TABLE 4.2 ON SHEET G-013. WHEN WITHIN 100', CONTRACTOR TO FOLLOW NOISE CONTROL MEASURES AS IDENTIFIED IN SECTION 10.2 OF THE EM&CP.

