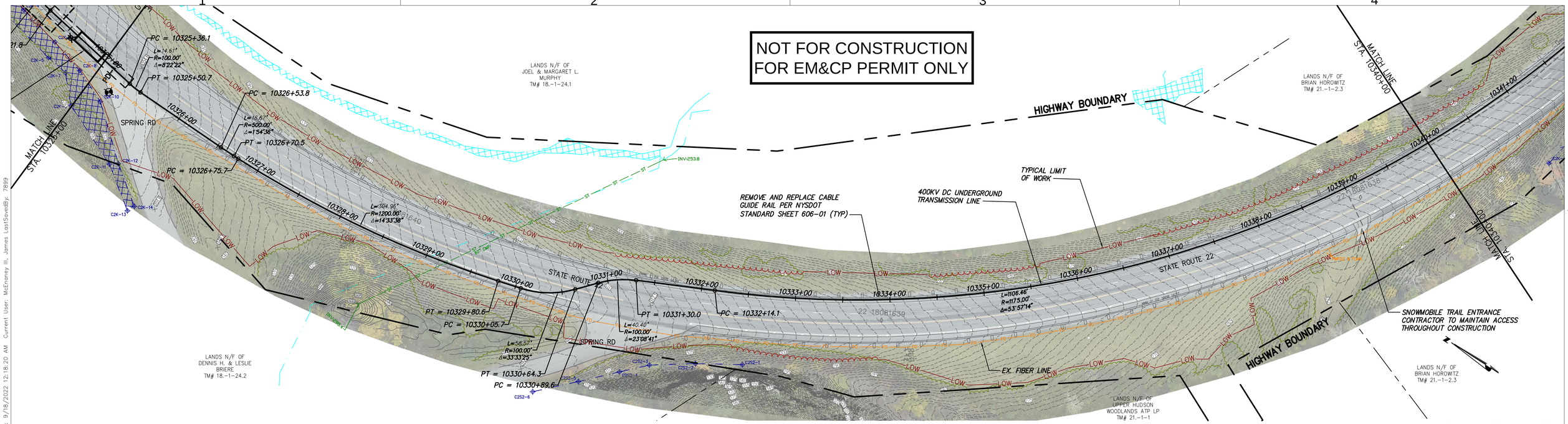
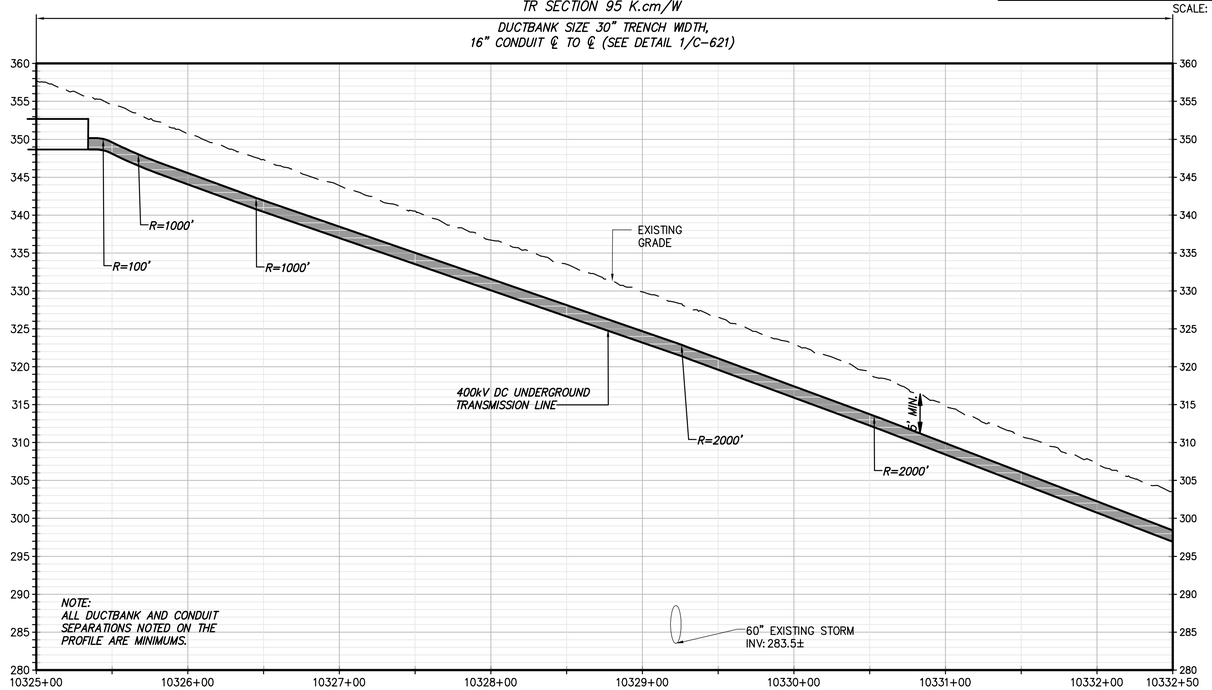
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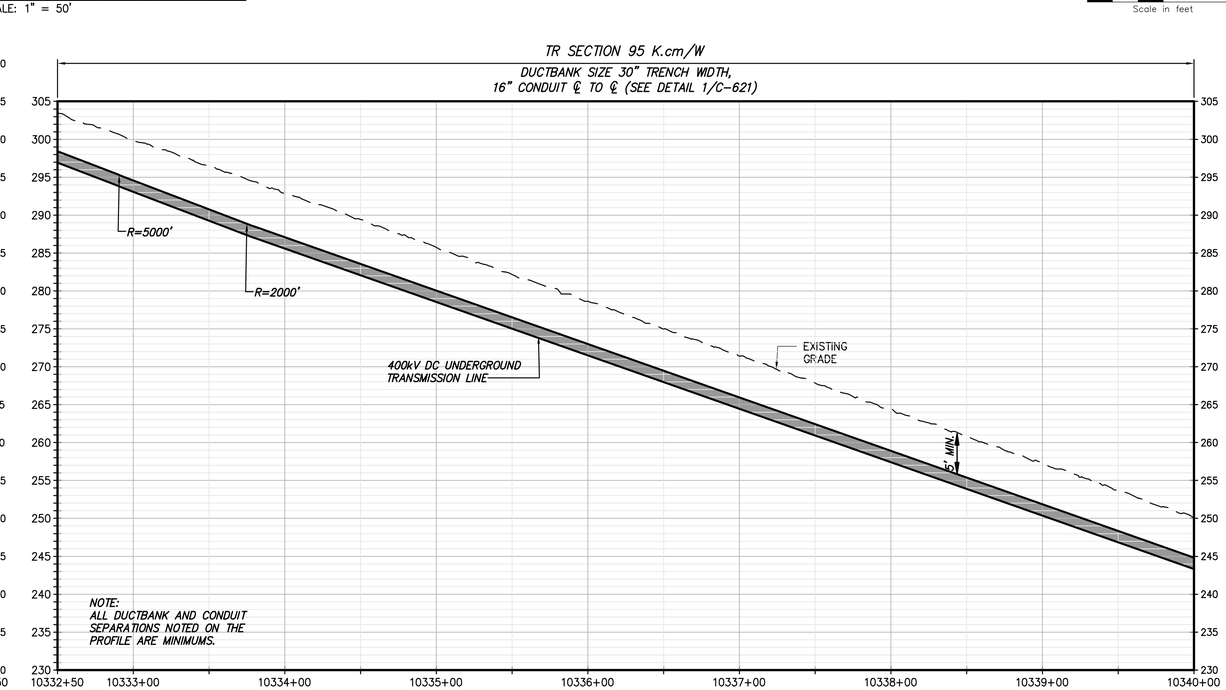
STA. 10325+00 TO STA. 10340+00 PLAN VIEW

SCALE: 1" = 50'



STA. 10325+00 TO STA. 310332+50 PROFILE VIEW

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



STA. 10332+50 TO STA. 310340+00 PROFILE VIEW

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

CHPE Champlain Hudson Power Express

Kiewit

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

STATE OF NEW YORK · JOSEPH P. ROMANO · 081993 · LICENSED PROFESSIONAL ENGINEER
09/18/2022

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	09/21/2022	FINAL EM&CP SUBMISSION	JM	JR

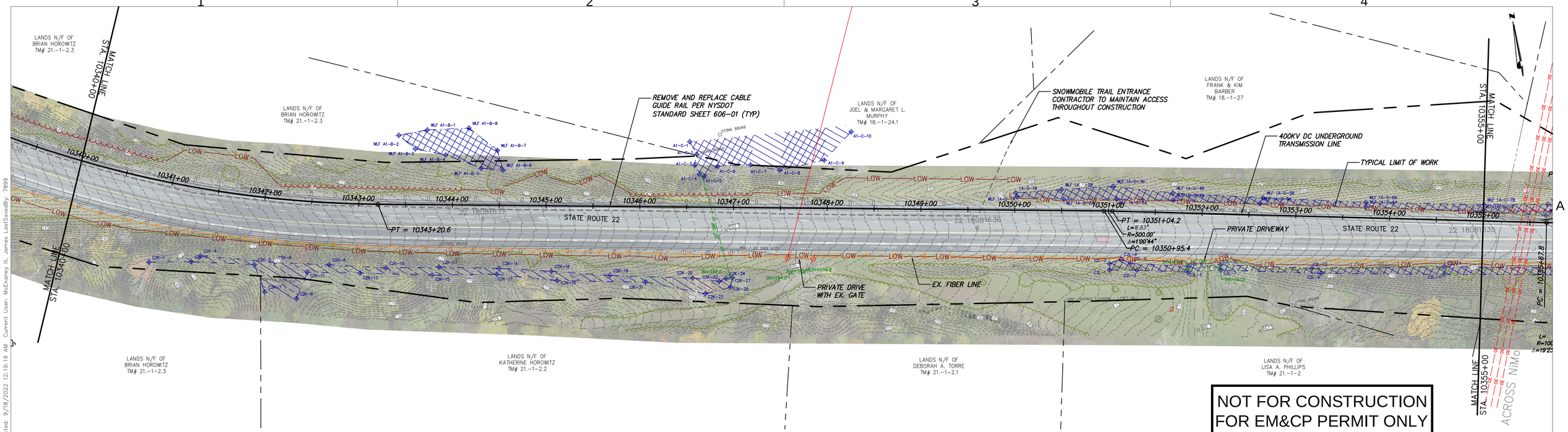
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 1 (PACKAGE 1A) PUTNAM TO DRESDEN
STA. 10325+00 TO STA. 10340+00

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-123

DRAWN BY: JTM | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE: AS NOTED | DATE: 09/21/2022 | REV. NO.: X | SH.NO.: XXX OF XXX

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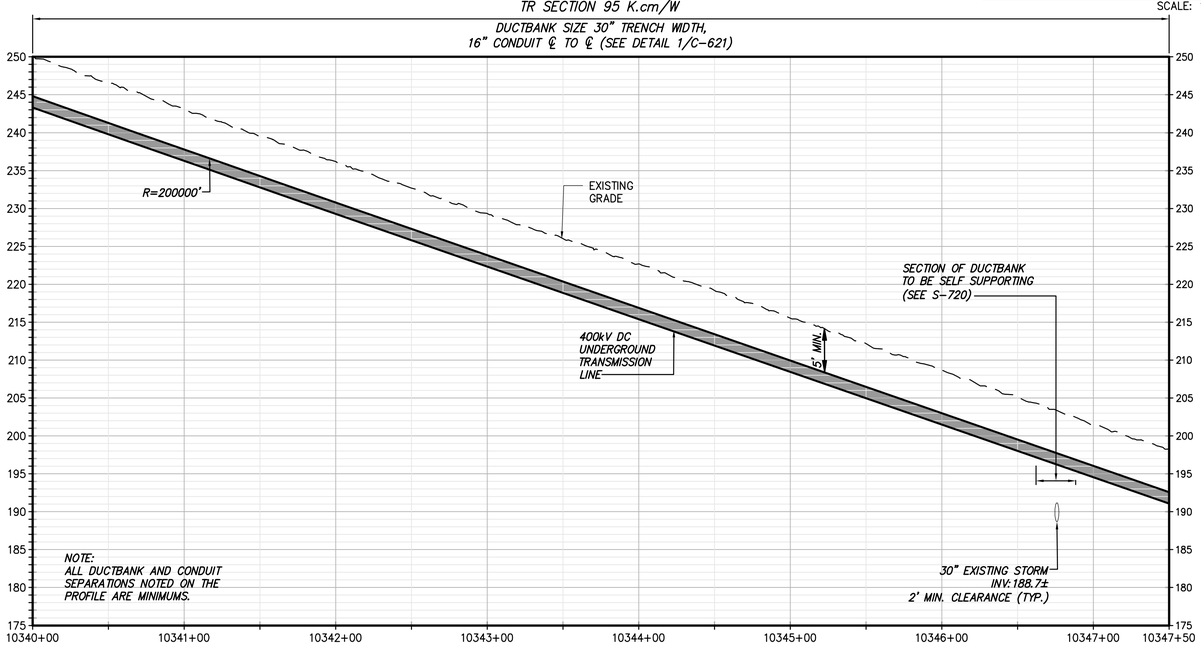
NOT FOR CONSTRUCTION
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ACROSS NIMo

STA. 10340+00 TO STA. 10355+00 PLAN VIEW

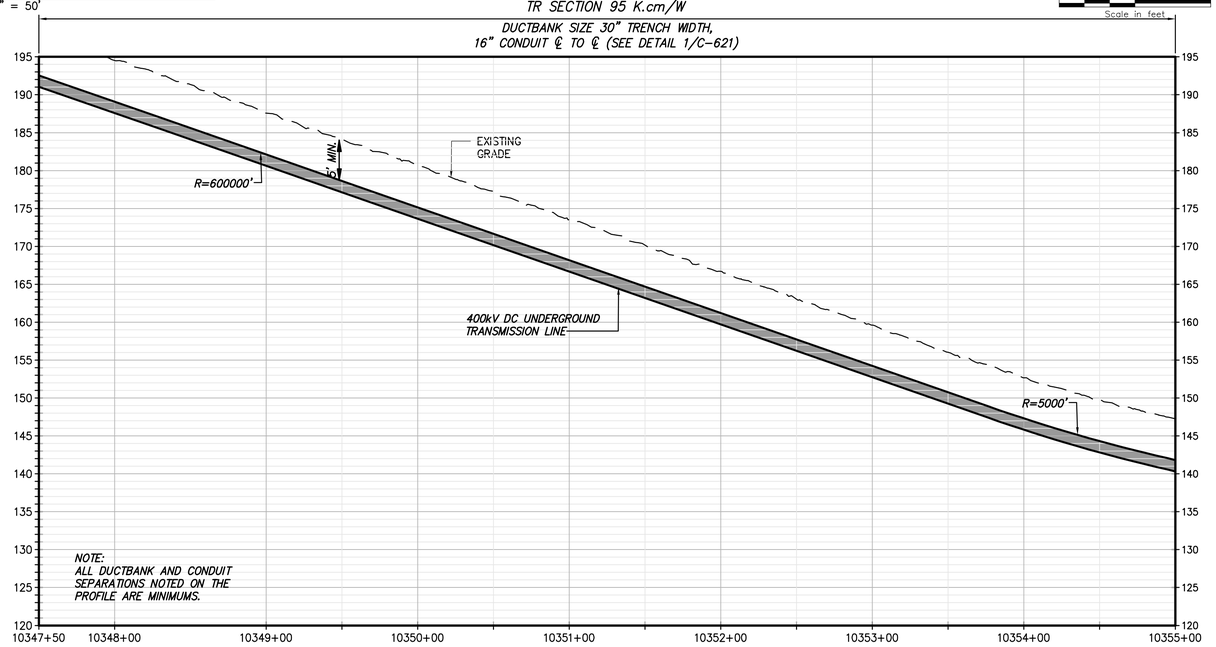
SCALE: 1" = 50'

0 50 100
Scale in feet



STA. 10340+00 TO STA. 10347+50 PROFILE VIEW

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



STA. 10347+50 TO STA. 10355+00 PROFILE VIEW

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

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09/18/2022

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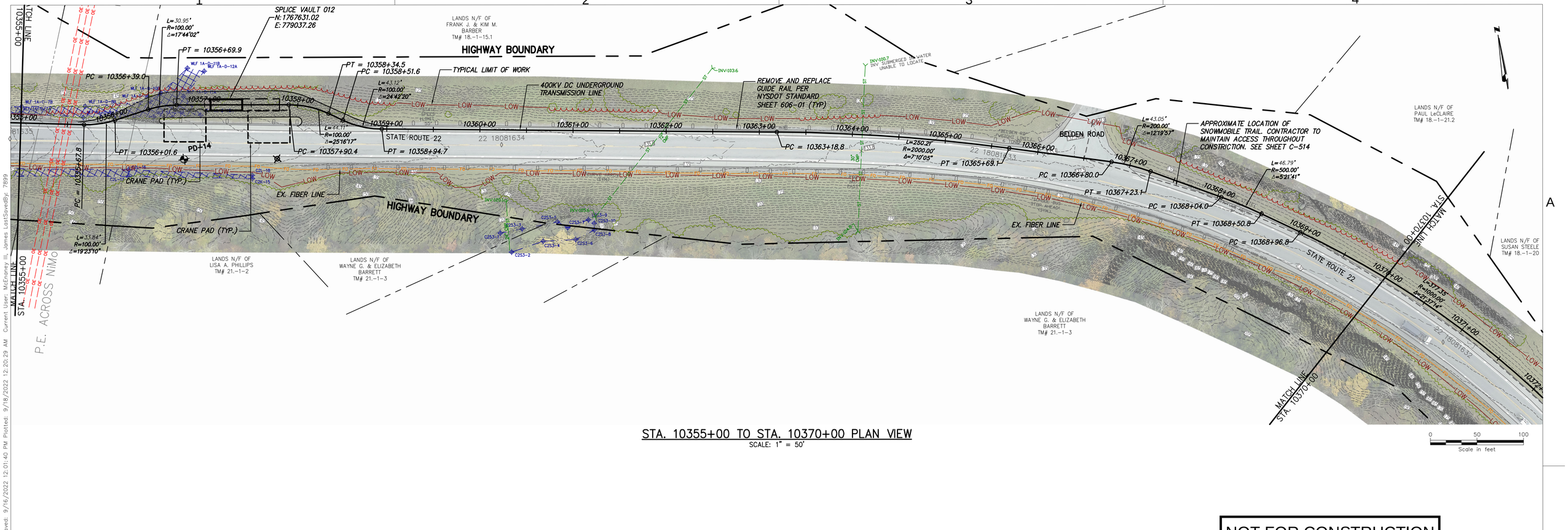
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	09/21/2022	FINAL EM&CP SUBMISSION	JM	JR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 1 (PACKAGE 1A) PUTNAM TO DRESDEN
STA. 10340+00 TO STA. 10355+00

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-124

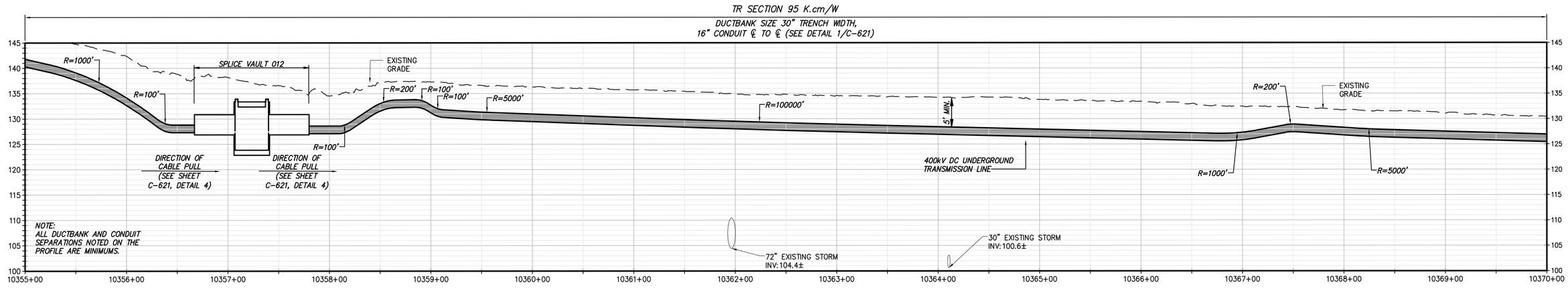
DRAWN BY: JTM | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE: AS NOTED | DATE: 09/21/2022 | REV. NO.: X | SH.NO.: XXX OF XXX

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STA. 10355+00 TO STA. 10370+00 PLAN VIEW
SCALE: 1" = 50'

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STA. 10355+00 TO STA. 10370+00 PROFILE VIEW
SCALE: H:1" = 50' V:1" = 10'

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STATE OF NEW YORK
JOSEPH P. ROMANO
LICENSED PROFESSIONAL ENGINEER
COLLEGE
081993
09/18/2022

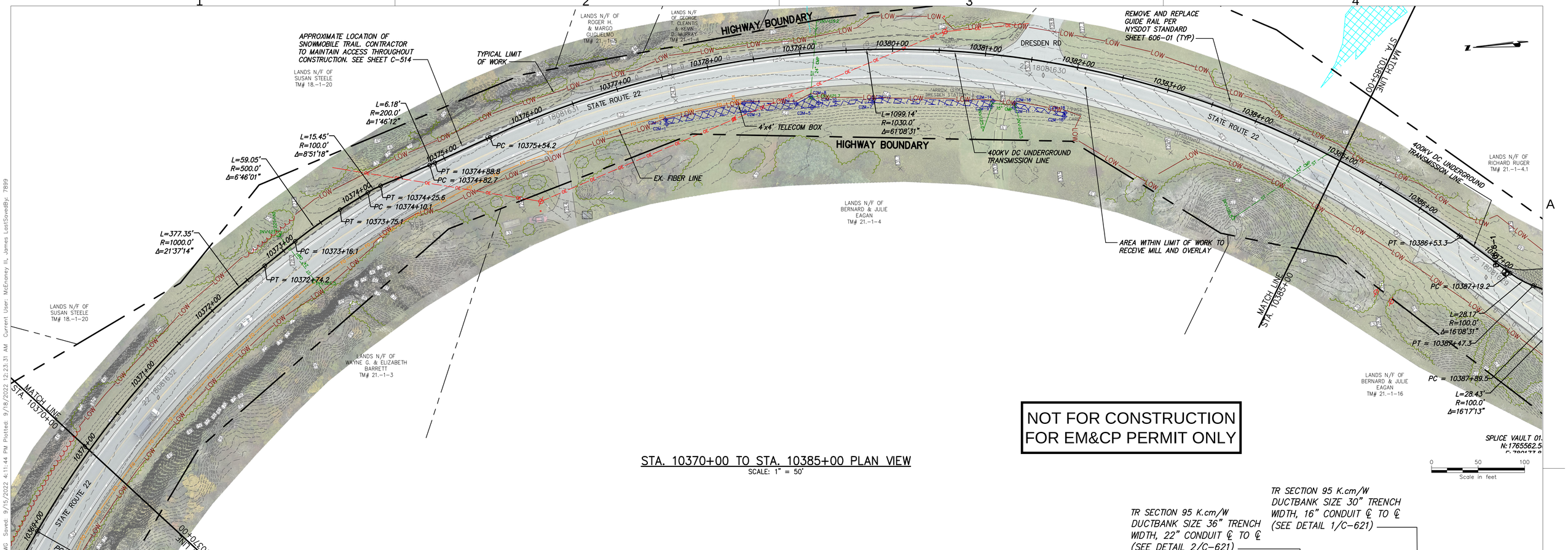
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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 1 (PACKAGE 1A) PUTNAM TO DRESDEN
STA. 10355+00 TO STA. 10370+00

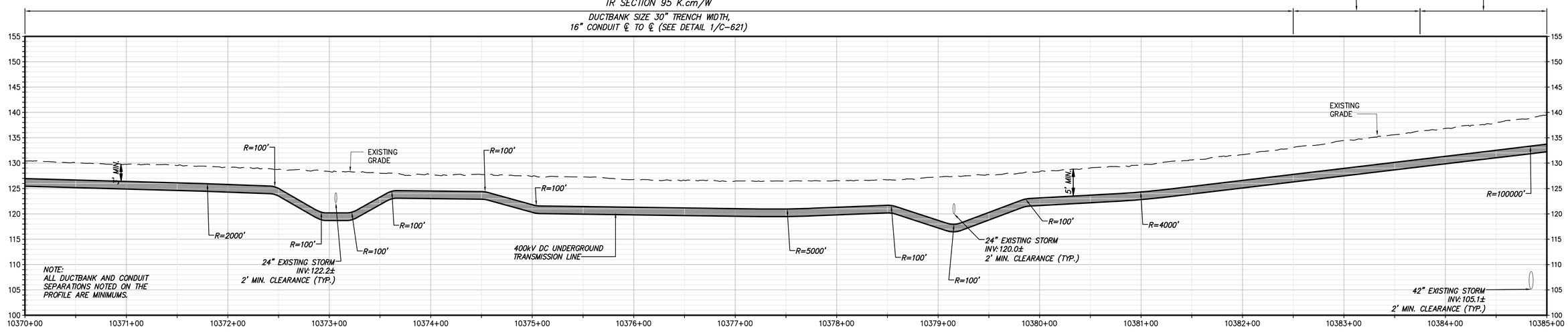
KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-125

DRAWN BY: JTM | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE AS NOTED | REV. NO. X | DATE 09/21/2022 | SH.NO. XXX OF XXX



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STA. 10370+00 TO STA. 10385+00 PLAN VIEW
SCALE: 1" = 50'



STA. 10370+00 TO STA. 10385+00 PROFILE VIEW
SCALE: H:1" = 50' V:1" = 10'

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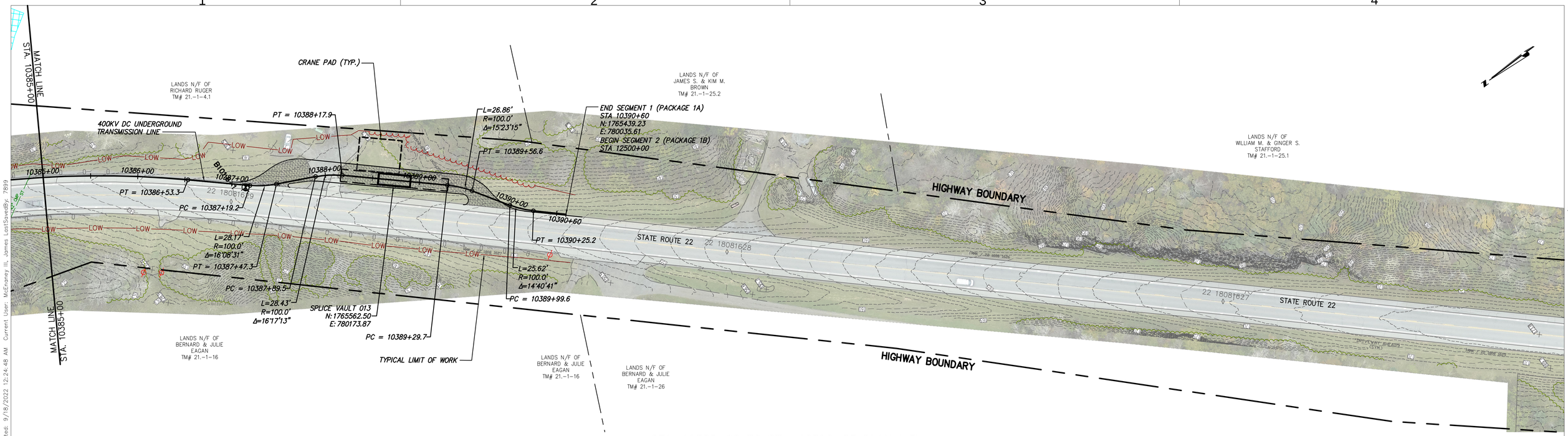
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	09/21/2022	FINAL EM&CP SUBMISSION	JM	JR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 1 (PACKAGE 1A) PUTNAM TO DRESDEN
STA. 10370+00 TO STA. 10385+00

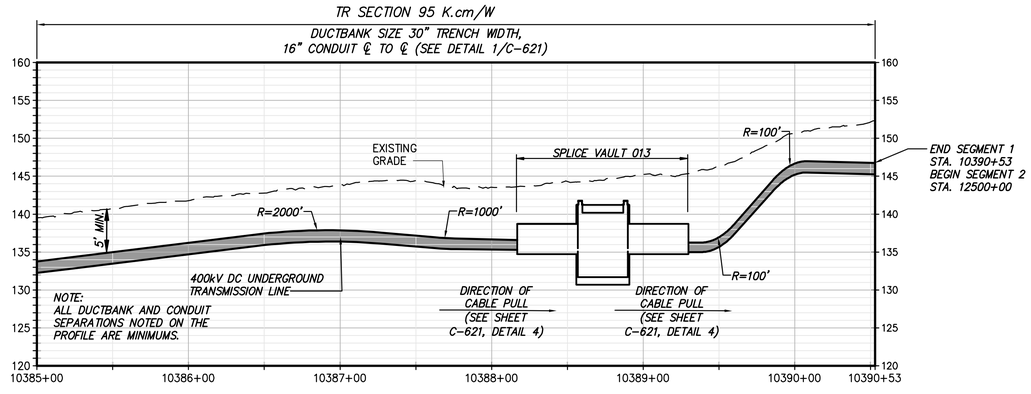
KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-126

DRAWN BY: JTM | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE: AS NOTED | REV. NO.: X | DATE: 09/21/2022 | SH.NO.: XXX OF XXX

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STA. 10385+00 TO STA. 10390+53 PLAN VIEW
SCALE: 1" = 50'



STA. 10385+00 TO STA. 10390+53 PROFILE VIEW
SCALE: H:1" = 50' V:1" = 10'

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09/18/2022

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 1 (PACKAGE 1A) PUTNAM TO DRESDEN
STA. 10385+00 TO STA. 10390+00

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-127

DRAWN BY: JTM | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE AS NOTED | DATE 09/21/2022 | REV. NO. X | SH.NO. XXX OF XXX

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Plotted: 9/19/2022 2:13:44 PM

RYDER ROAD

WETLAND SA-4

WETLAND SA-3

WETLAND SA-2

WETLAND SA-1

WETLAND PROTECTION MATTING

WETLAND PROTECTION

LIMIT OF WORK

STABILIZED CONSTRUCTION ENTRANCE (TO BE FIELD LOCATED)

STABILIZED CONSTRUCTION ENTRANCE (TO BE FIELD LOCATED)

RYDER ROAD STAGING AND LAYDOWN AREA (SOUTH)

TOP SOIL STOCK PILE

AG LAND (SEE TABLE 1.4 ON SHEET G-011)

LANDS N/F OF BRUCE KASTOR TM# 86.-1-18.1 AG LAND (SEE TABLE 1.4 ON SHEET G-011)

NYS ROUTE 4

"RYDER RD" "STOP"

"DEAD END" "SPEED LIMIT"

"EMPIRE STATE TRAIL"

BICYCLE (SYMB)

4.18031282 (PRES)

12" CMP INV=159 INV=162.2

2" HDPE INV=166.1

12" PIPE INV=166.7

24" CMP INV=163.3 INV=166.7

12" CMP INV=163.1 INV=166.7

CHIMNEY FOUNDATION REMAINS

B117.2

STAGING AND LAYDOWN AREA NOTES:

1. CONTRACTOR TO INSTALL EROSION CONTROL MEASURES PRIOR TO CONSTRUCTION OF THE LAYDOWN AREA.
2. FOR CONSTRUCTION OF THE LAYDOWN AREA, CONTRACTOR TO STRIP AND REMOVE THE TOPSOIL, INSTALL FABRIC AND STONE SECTION.
3. LAYDOWN AREA SHALL NOT BE CONSTRUCTED WITHIN WETLAND AREAS.
4. FUELING OPERATIONS SHALL NOT TAKE PLACE WITHIN 100 FEET OF ANY KNOWN WETLAND OR STREAM OR WITHIN 200 FEET OF ANY POTABLE WATER SOURCE.
5. AT THE COMPLETING OF CONSTRUCTION, CONTRACTOR TO REMOVE STONE, FABRIC AND RESTORE TO EXISTING CONDITIONS IN ACCORDANCE WITH THE RESTORATION SECTION FOR AGRICULTURAL LANDS AS IDENTIFIED WITHIN THE EM&CP.

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RYDER ROAD STAGING AND LAYDOWN AREA (SOUTH)

SCALE: 1" = 40'

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

09/19/2022

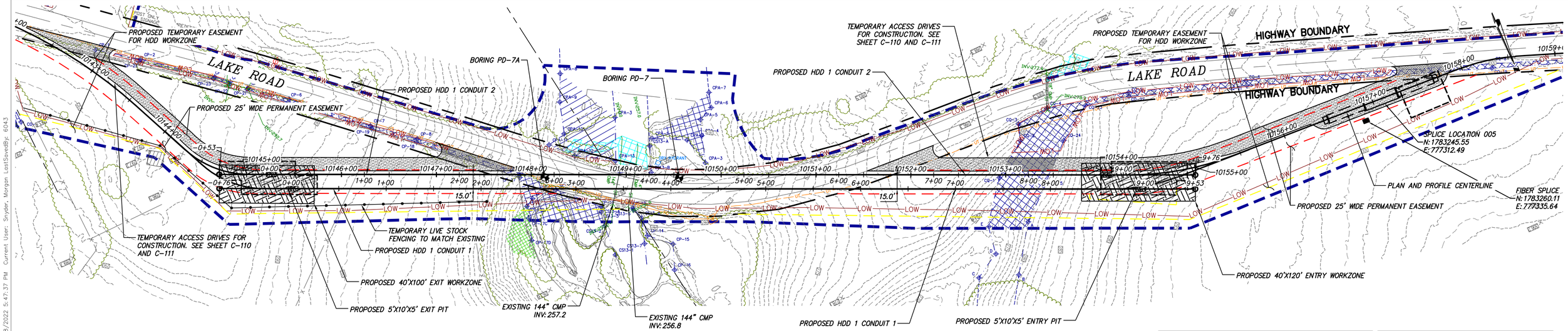
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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 1 (PACKAGE 1A) PUTNAM TO DRESDEN
RYDER ROAD STAGING AND LAYDOWN AREA (SOUTH)

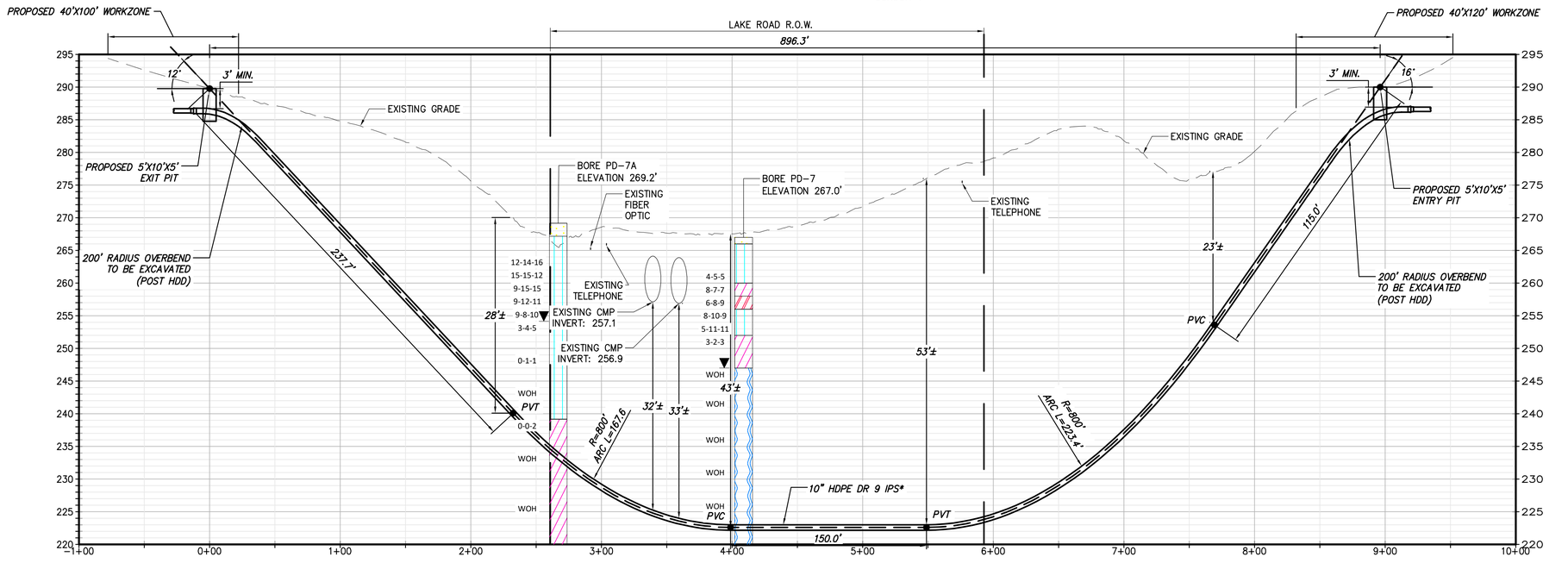
KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-201

DRAWN BY: JTM | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE AS NOTED | REV. NO. X | DATE 09/21/2022 | SH.NO. XXX OF XXX



0 50 100
Scale in feet

PROPOSED HDD 1 PLAN VIEW
CONDUIT 1



0 50 100
Scale in feet

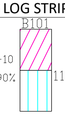
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PROPOSED HDD 1 PROFILE
CONDUIT 1

*HDD 1 CONSIST OF (2) HVDC ELECTRICAL TRANSMISSION CABLES HOUSED IN INDIVIDUAL 10" DIAMETER CASINGS.

*A THIRD 2" CASING WILL BE BUNDLED WITH ONE OF THE 10" CASINGS FOR A TELECOMMUNICATIONS LINE.

BORING LOG STRIP LEGEND



Blow Counts per 6" =10-10-10
Recovery %/RQD % =95%/90%

Legend	
ASPHALT	Asphalt
Bedrock	Bedrock
Boulder	Boulder
CH	Fat CLAY
CH-MH	SILTY Fat CLAY
CL	Lean CLAY
CL-ML	SILTY CLAY
CONCRETE	Concrete
Fill	Fill
GC	CLAYEY GRAVEL
GC-GM	SILTY CLAYEY GRAVEL
GM	SILTY GRAVEL
GP	Poorly Graded GRAVEL
GP-GC	Poorly Graded Gravel with CLAY
GP-GM	Poorly Graded GRAVEL with SILT
GW	Well Graded GRAVEL
GW-GC	Well Graded GRAVEL with CLAY
GW-GM	Well Graded GRAVEL with SILT
Limestone	Limestone
MH	Elastic SILT
ML	SILT
OH	ORGANIC Fat CLAY
OL	ORGANIC Lean CLAY
OL/OH	ORGANIC SOIL
PT	PEAT
Rock	Rock
Sandstone	Sandstone
SC	CLAYEY SAND
SC-SM	SILT, CLAYEY SAND
SHALE	Shale
SILTSTONE	Siltstone
SM	SILTY SAND
SP	Poorly Graded SAND
SP-SC	Poorly Graded SAND with CLAY
SP-SM	Poorly Graded SAND with SILT
SW	Well graded SAND
SW-SC	Well Graded SAND with CLAY
SW-SM	Well Graded SAND with SILT
Topsoil	Topsoil
USGS 601	Gravel or Conglomerate 1
USGS 654	Subgraywacke
USGS 670	Interbedded Sandstone and Shale
USGS 702	Quartzite
USGS 705	Schist
USGS 705	Schist
USGS 708	Gneiss
USGS 708	Gneiss
USGS 718	Granite 1
Void	Void
Water	Water
Weathered Rock	Undefined
Water Table	Water Table during drilling
Delayed Water Table	Water Table after drilling

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STATE OF NEW YORK
JEFFREY O'DONNELL
087450
LICENSED PROFESSIONAL ENGINEER
9/18/2022

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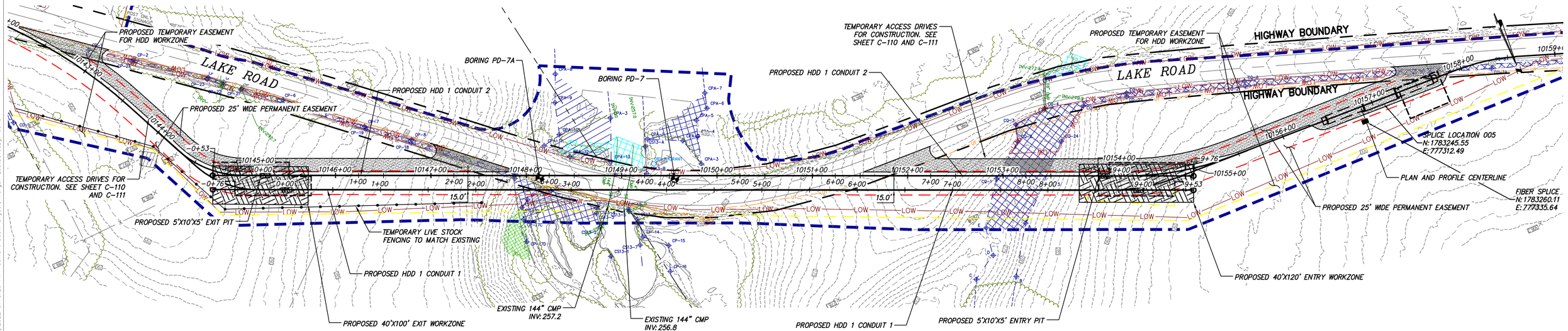
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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 1 (PACKAGE 1A) PUTNAM TO DRESDEN
HDD 1 PLAN AND PROFILE - CONDUIT 1
MILL BROOK CULVERTS CROSSING, CONDUIT 1
WHITEHALL, WASHINGTON COUNTY, NY

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-301

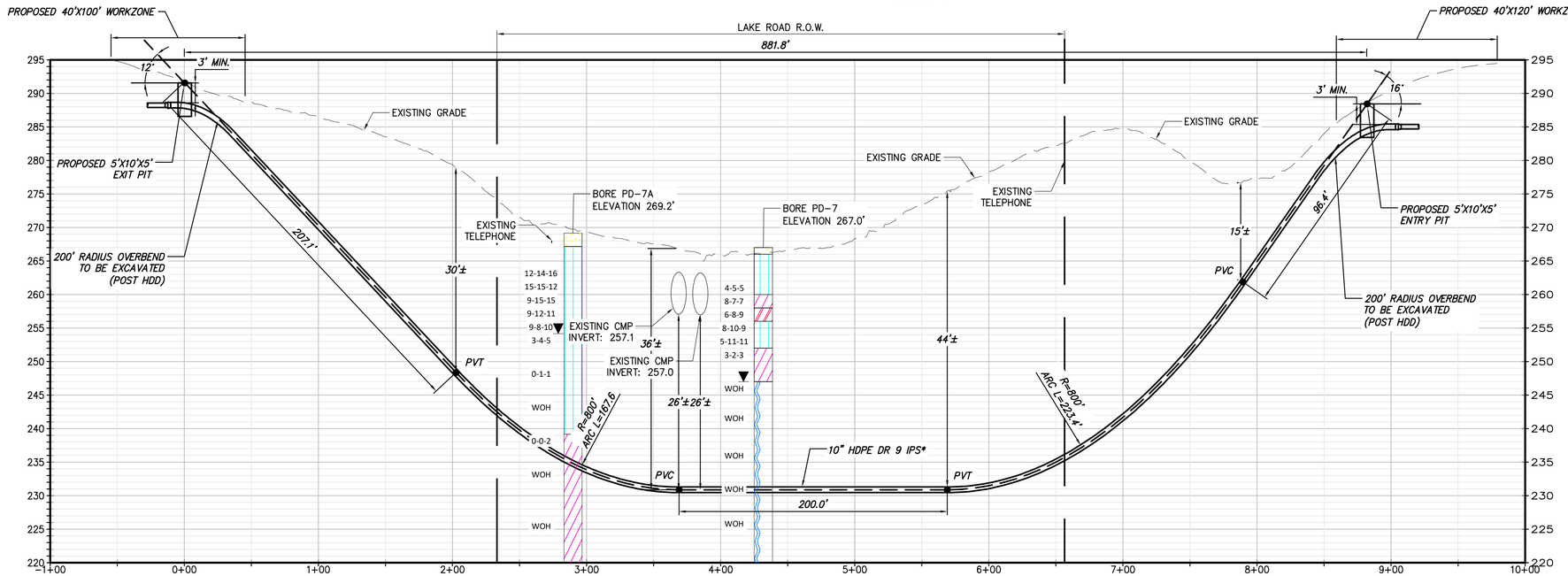
DRAWN BY: TAR | DESIGNED BY: TAR | APPROVED BY: JEO
SCALE AS NOTED | DATE 09/21/2022
REV. NO. X | SH.NO. XXX OF XXX

File: \\CHA-LLP.COM\PROJ\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 1\DESIGN PACKAGE 1A\066076_1A_C-301 – C-301A.DWG Saved: 9/18/2022 5:42:52 PM Plotted: 9/18/2022 5:47:37 PM Current User: Snyder, Morgan LastSavedBy: 6043



0 50 100
Scale in feet

PROPOSED HDD 1 PLAN VIEW
CONDUIT 2



PROPOSED HDD 1 PROFILE
CONDUIT 2

20
10
0
0 50 100
Scale in feet

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*HDD 1 CONSIST OF (2) HVDC ELECTRICAL TRANSMISSION CABLES HOUSED IN INDIVIDUAL 10" DIAMETER CASINGS.

A THIRD 2" CASING WILL BE BUNDLED WITH ONE OF THE 10" CASINGS FOR A TELECOMMUNICATIONS LINE.

BORING LOG STRIP LEGEND

B101

Blow Counts per 6" =10-10-10
Recovery %/RQD % =95%/90%
11000 =UCS

Legend	
ASPHALT	Asphalt
Bedrock	Bedrock
Boulder	Boulder
CH	Fat CLAY
CH-MH	SILTY Fat CLAY
CL	Lean CLAY
CL-ML	SILTY CLAY
CONCRETE	Concrete
Fill	Fill
GC	CLAYEY GRAVEL
GC-GM	SILTY CLAYEY GRAVEL
GM	SILTY GRAVEL
GP	Poorly Graded GRAVEL
GP-GC	Poorly Graded Gravel with CLAY
GP-GM	Poorly Graded GRAVEL with SILT
GW	Well Graded GRAVEL
GW-GC	Well Graded GRAVEL with CLAY
GW-GM	Well Graded GRAVEL with SILT
Limestone	Limestone
MH	Elastic SILT
ML	SILT
OH	ORGANIC Fat CLAY
OL	ORGANIC Lean CLAY
OL/OH	ORGANIC SOIL
PT	PEAT
Rock	Rock
Sandstone	Sandstone
SC	CLAYEY SAND
SC-SM	SILT, CLAYEY SAND
SHALE	Shale
SILTSTONE	Siltstone
SM	SILTY SAND
SP	Poorly Graded SAND
SP-SC	Poorly Graded SAND with CLAY
SP-SM	Poorly Graded SAND with SILT
SW	Well graded SAND
SW-SC	Well Graded SAND with CLAY
SW-SM	Well Graded SAND with SILT
Topsoil	Topsoil
USGS 601	Gravel or Conglomerate 1
USGS 654	Subgraywacke
USGS 670	Interbedded Sandstone and Shale
USGS 702	Quartzite
USGS 705	Schist
USGS 705	Schist
USGS 708	Gneiss
USGS 708	Gneiss
USGS 718	Granite 1
Void	Void
Water	Water
Weathered Rock	Undefined
Water Table	Water Table during drilling
Delayed Water Table	Water Table after drilling

CHPE Champlain Hudson Power Express

Kiewit

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

STATE OF NEW YORK
TIMOTHY O'DONNELL
087450
PROFESSIONAL ENGINEER
9/18/2022

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
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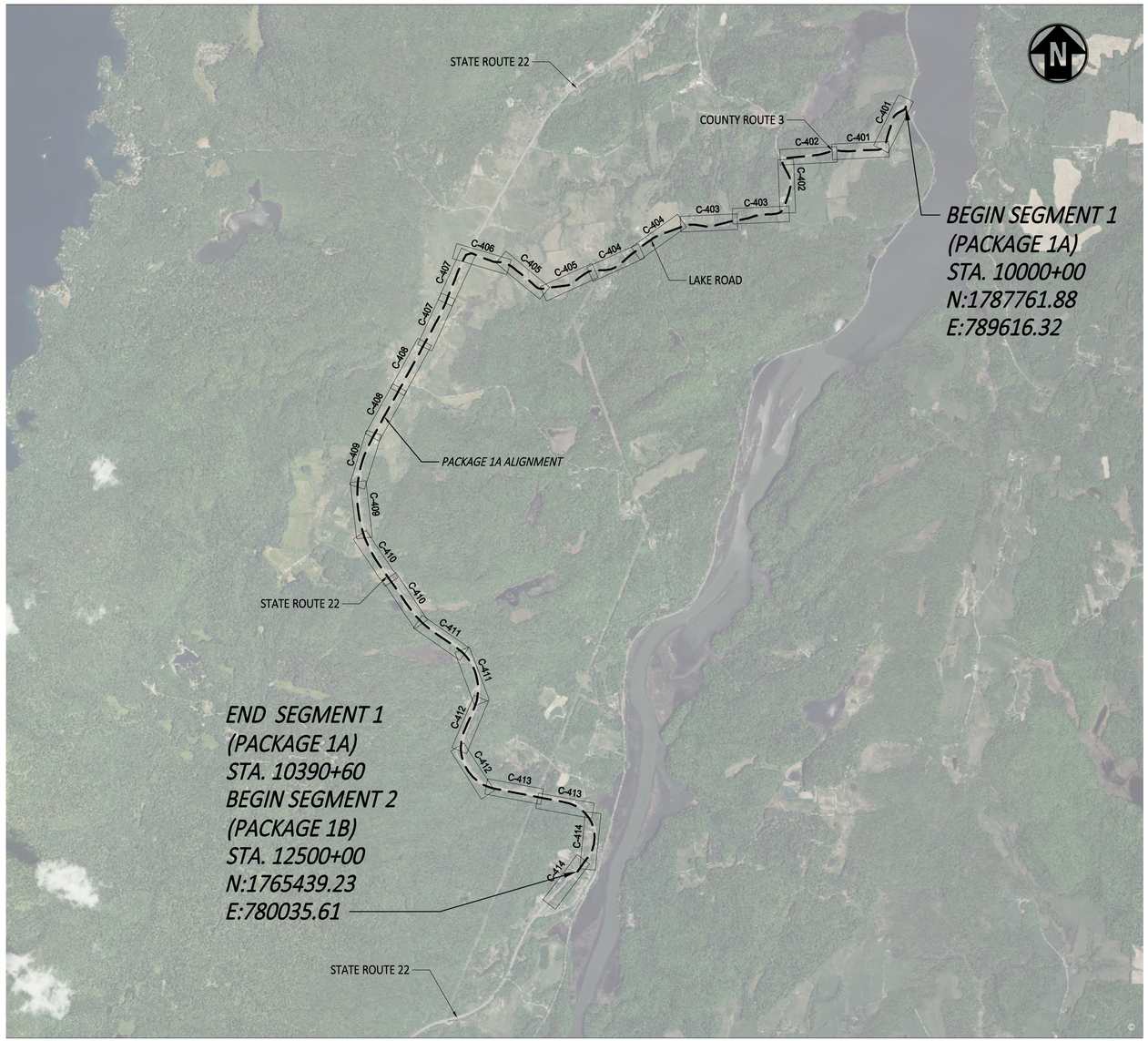
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 1 (PACKAGE 1A) PUTNAM TO DRESDEN
HDD 1 PLAN AND PROFILE - CONDUIT 2
MILL BROOK CULVERTS CROSSING, CONDUIT 2
WHITEHALL, WASHINGTON COUNTY, NY

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-301A

DRAWN BY: TAR | DESIGNED BY: TAR | APPROVED BY: JEO

SCALE AS NOTED | DATE 09/21/2022
REV. NO. X | SH.NO. XXX OF XXX

File: \\CHA-LLP.COM\PROJ\PROJECTS\ANY\V6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 1\DESIGN PACKAGE 1A\066076_1A_C-301 - C-301A.DWG Saved: 9/18/2022 5:42:52 PM Plotted: 9/18/2022 5:48:29 PM Current User: Snyder, Morgan LastSavedBy: 6043



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E&S KEY MAP
SCALE: 1" = 2000'

CHPE Champlain Hudson Power Express

Kiewit

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Albany, NY 12205-0269
518.453.4500 . www.chacompanies.com

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

09/18/2022

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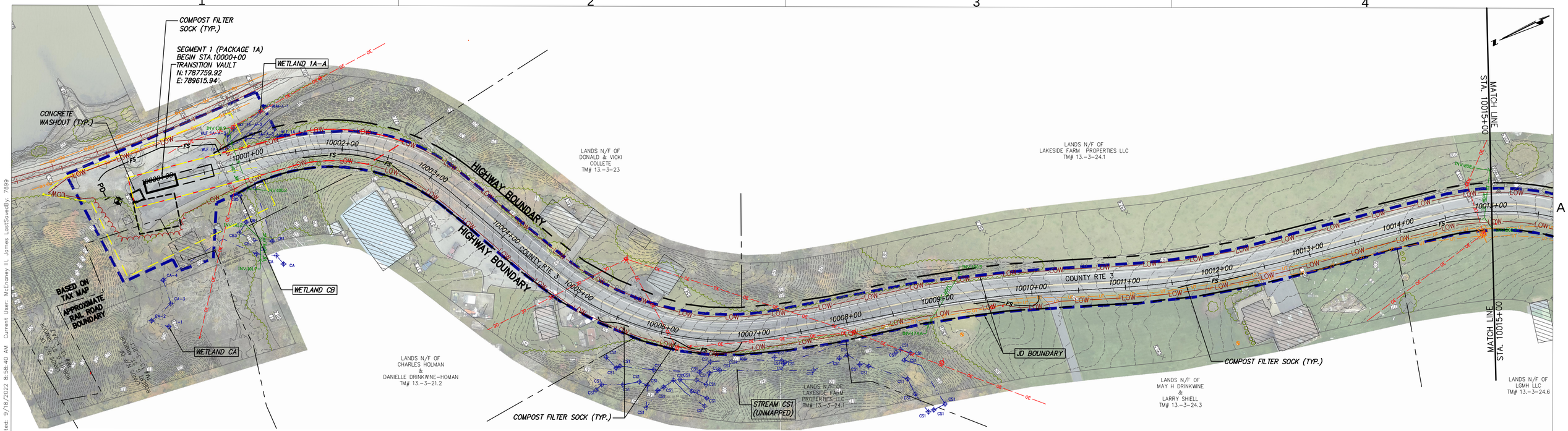
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 1 (PACKAGE 1A) PUTNAM TO DRESDEN
KEYPLAN E&S

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-400

DRAWN BY: JJE | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE: AS NOTED | REV. NO.: X | DATE: 09/21/2022 | SH.NO.: XXX OF XXX

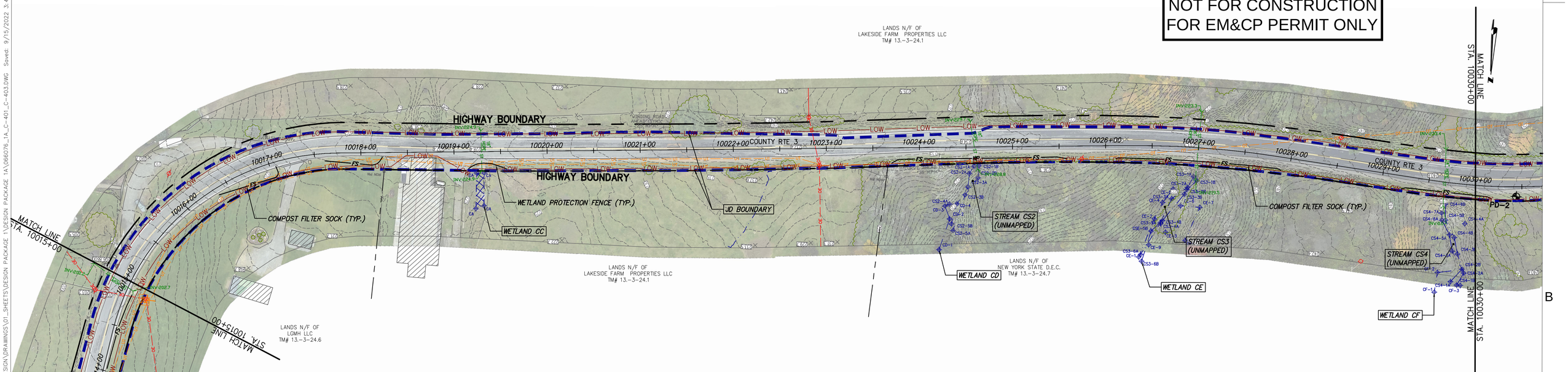
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STA. 10000+00 TO STA. 10015+00 PLAN VIEW
SCALE: 1" = 50'

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STA. 10015+00 TO STA. 10030+00 PLAN VIEW
SCALE: 1" = 50'

CHPE Champlain Hudson Power Express

Kiewit

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STATE OF NEW YORK · JOSEPH P. ROMANO · 081993 · LICENSED PROFESSIONAL ENGINEER
09/18/2022

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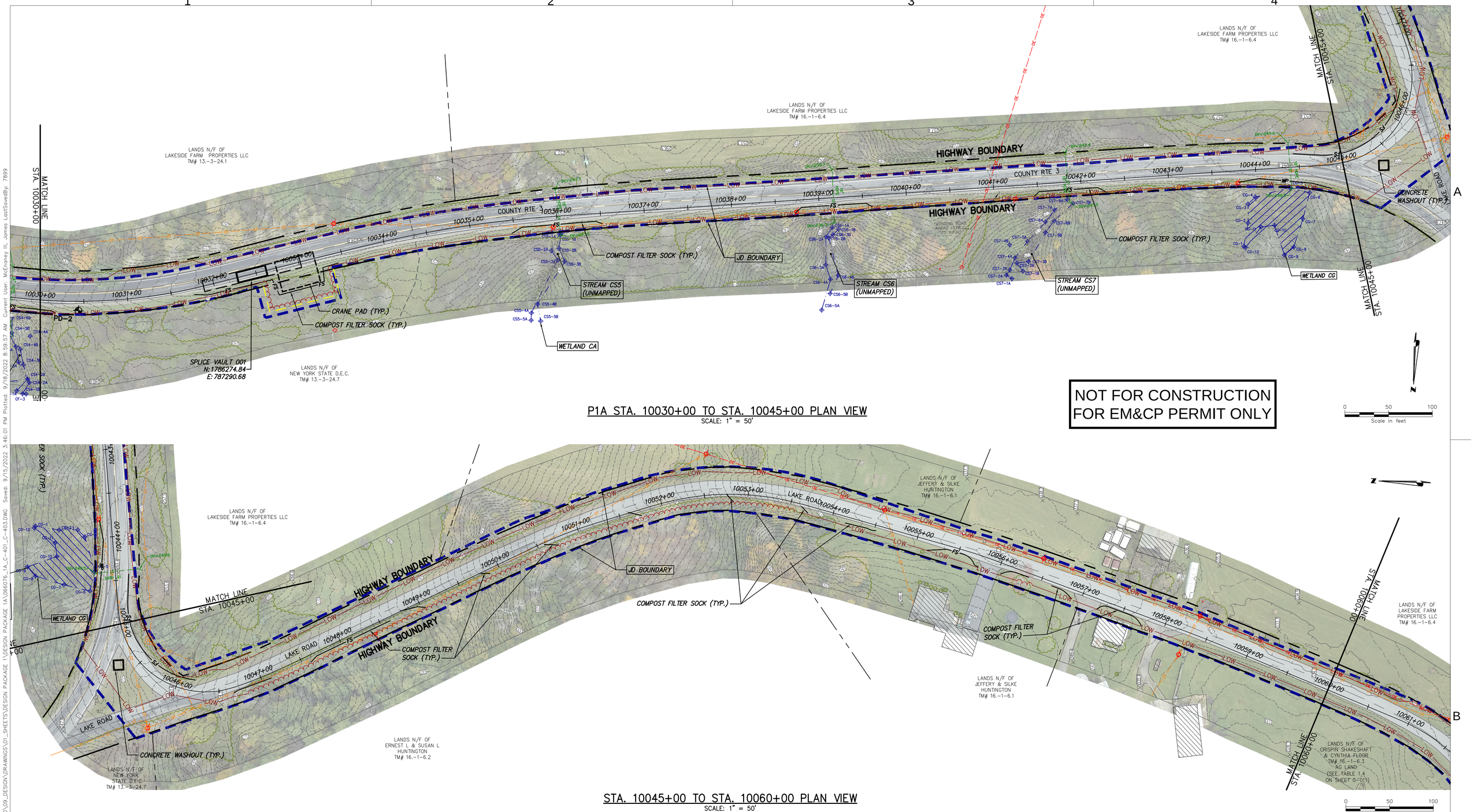
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0	09/21/2022	FINAL EM&CP SUBMISSION	JM	JR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 1 (PACKAGE 1A) PUTNAM TO DRESDEN
STA. 10000+00 TO STA. 10030+00
EROSION AND SEDIMENT CONTROL PLAN

DRAWN BY:	JJE	DESIGNED BY:	JTM	APPROVED BY:	JPR

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-401
SCALE	AS NOTED
DATE	09/21/2022
REV. NO.	X
SH.NO.	XXX OF XXX

File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 1\DESIGN PACKAGE 1A\066076_1A_C-401_C-403.DWG Saved: 9/15/2022 3:46:01 PM Plotted: 9/18/2022 8:59:57 AM Current User: McFinney III, James LastSavedBy: 7899



P1A STA. 10030+00 TO STA. 10045+00 PLAN VIEW
SCALE: 1" = 50'

STA. 10045+00 TO STA. 10060+00 PLAN VIEW
SCALE: 1" = 50'

CHPE Champlain Hudson Power Express

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JOSEPH P. ROMANO
LICENSED PROFESSIONAL ENGINEER
081993
09/18/2022

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 1 (PACKAGE 1A) PUTNAM TO DRESDEN
STA. 10030+00 TO STA. 10060+00
EROSION AND SEDIMENT CONTROL PLAN

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-402

DRAWN BY: JJE | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE: AS NOTED | REV. NO.: X | DATE: 09/21/2022 | SH.NO.: XXX OF XXX