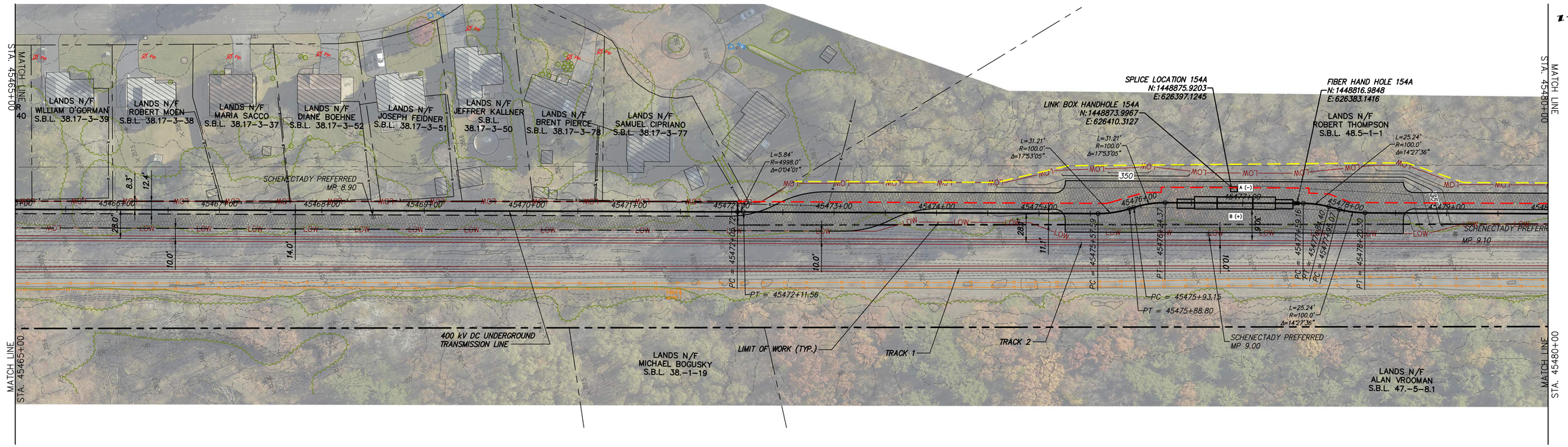


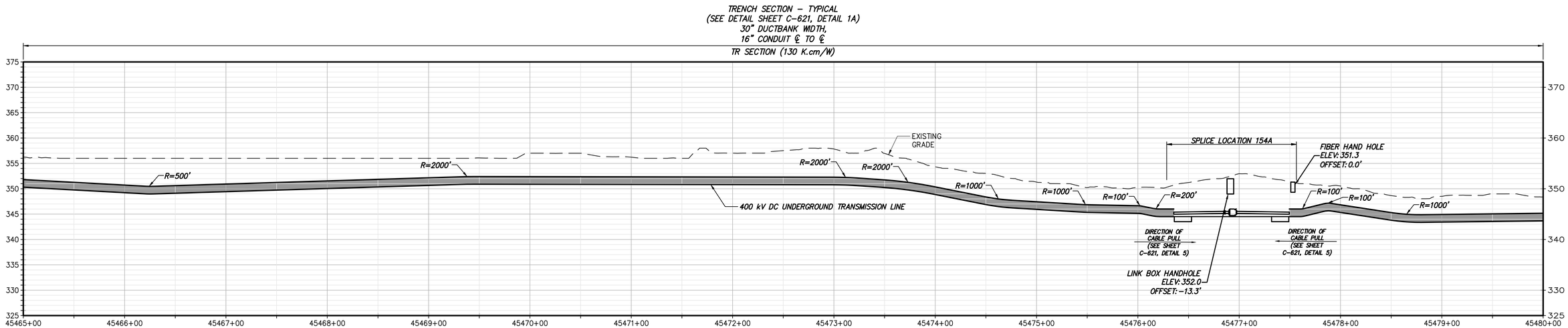
STA. 45465+00 TO STA. 45480+00 PLAN VIEW

SCALE: 1" = 50'

0 50 100
Scale in feet

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. 45465+00 TO STA. 45480+00 PROFILE VIEW

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

CHPE Champlain Hudson Power Express

Kiewit

Engineering and Land Surveying, P.C.

STATE OF NEW YORK · DARY BIRBAL SINGH · 105756 · LICENSED PROFESSIONAL ENGINEER

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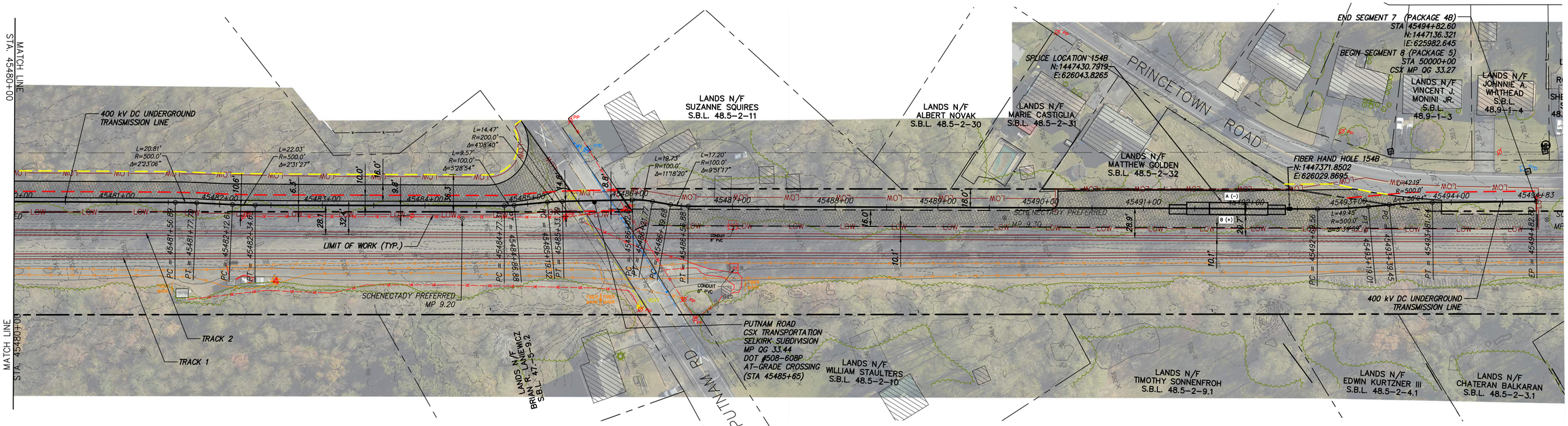
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	07/28/2023	ISSUED FOR CONSTRUCTION SUBMISSION	DM	BD

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
STA. 45465+00 TO STA. 45480+00 PLAN AND PROFILE

KIEWIT PROJECT NO. 21162
KC PROJECT NO. 120174
DRAWING NO. **C-132**

DRAWN BY: DM | DESIGNED BY: DM | APPROVED BY: BD | SCALE AS NOTED | REV. NO. 0 | DATE 07/26/2023 | SH.NO. OF

File: P:\120174-CHPE_CABLE_INSTALL-KIEWIT\60_CAD\20_ENGINEERING_CAD_FILES\PACKAGE_4B\NY_UTILITIES\01_ACE\SHEET_FILES\21162_4B-C-131_C-134.DWG Saved: 7/27/2023 4:18:46 PM Plotted: 7/28/2023 9:22:38 AM Current User: Jose Ramirez LastSavedBy: dmckenna



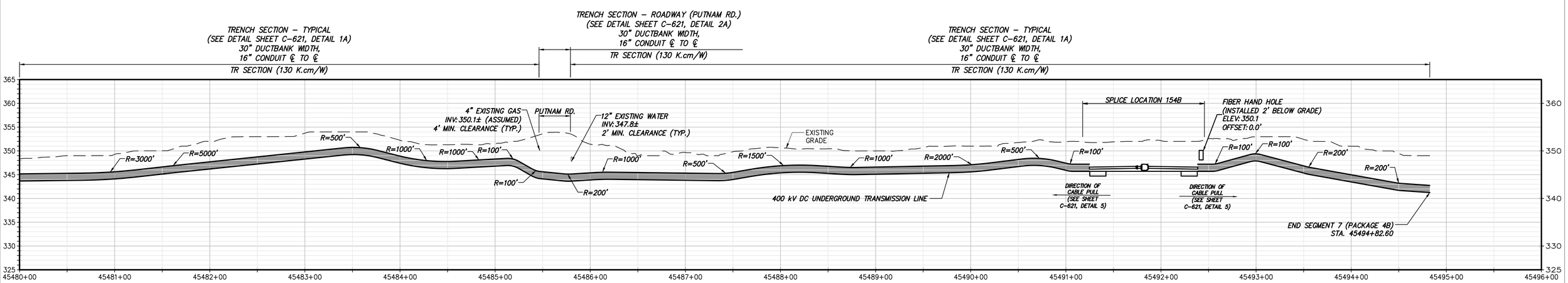
STA. 45480+00 TO STA. 45494+83 PLAN VIEW

SCALE: 1" = 50'

0 50 100
Scale in feet

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. 45480+00 TO STA. 45494+83 PROFILE VIEW

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

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
STA. 45480+00 TO STA. 45494+83 PLAN AND PROFILE

KIEWIT PROJECT NO. 21162
KC PROJECT NO. 120174
DRAWING NO. **C-133**

DRAWN BY: DM | DESIGNED BY: DM | APPROVED BY: BD | SCALE AS NOTED | REV. NO. 0 | DATE 07/26/2023 | SH.NO. | OF

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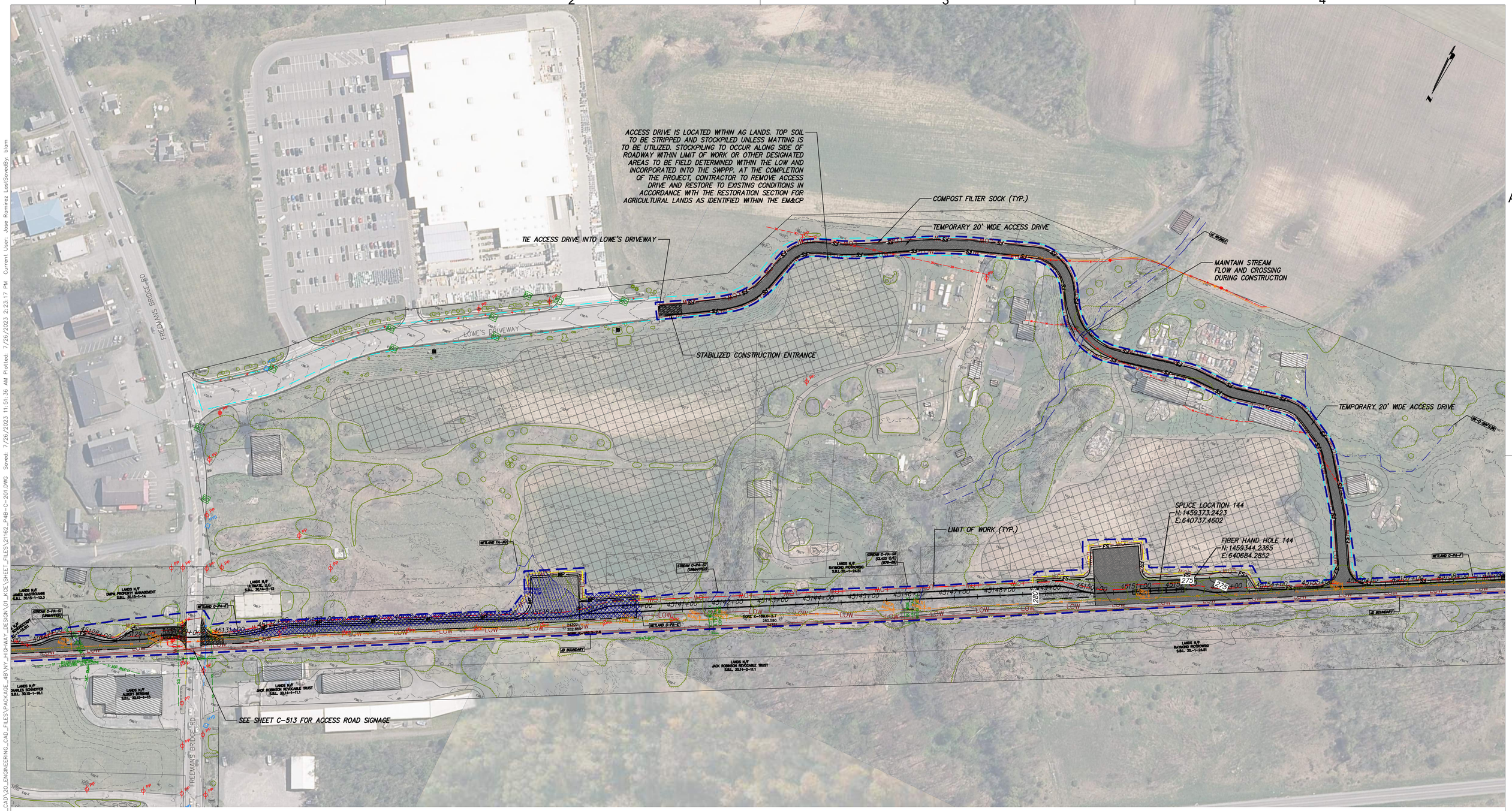

TEMP ACCESS ROAD 1 OF 3

SCALE: 1" = 100'

0 100 200

Scale in feet

CHPE Champlain Hudson Power Express

Kiewit

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
TEMP ACCESS ROAD
1 OF 3

KIEWIT PROJECT NO.	21162
KC PROJECT NO.	120174
DRAWING NO.	C-201

DRAWN BY: DM | DESIGNED BY: DM | APPROVED BY: BD | SCALE: AS NOTED | REV. NO. 0 | DATE 07/26/2023 | SH.NO. OF

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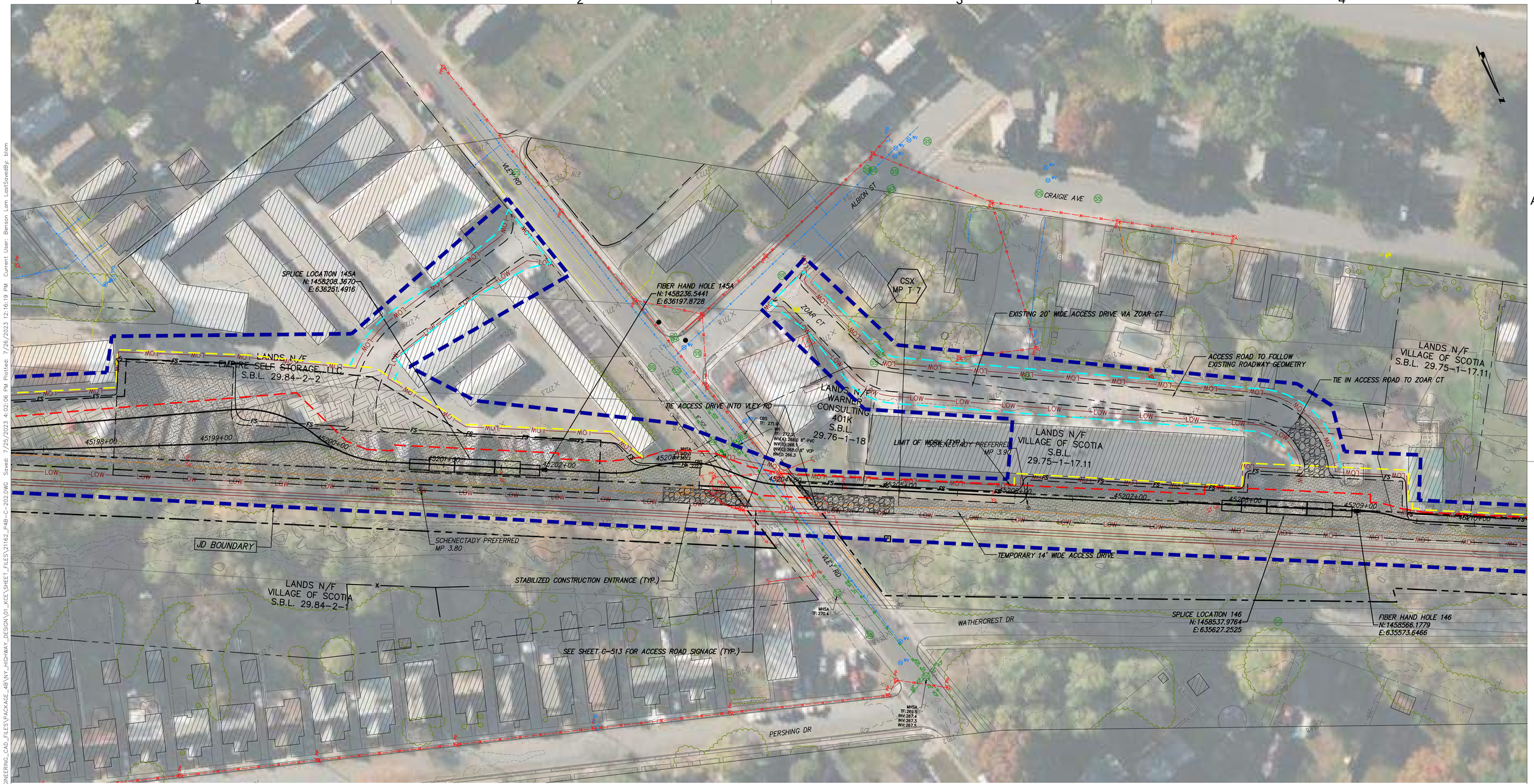

TEMP ACCESS ROAD 2 OF 3

SCALE: 1" = 40'

0 40 80
Scale in feet

CHPE Champlain Hudson Power Express

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
TEMP ACCESS ROAD
2 OF 3

DRAWN BY: DM | DESIGNED BY: DM | APPROVED BY: BD | SCALE: AS NOTED | REV. NO. 0 | DATE 07/26/2023 | SH.NO. | OF

KIEWIT PROJECT NO. 21162
KC PROJECT NO. 120174
DRAWING NO. C-202

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TEMP ACCESS ROAD 3 OF 3

SCALE: 1" = 100'

0 100 200
Scale in feet

CHPE Champlain Hudson Power Express

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Engineering and Land Surveying, P.C.

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
TEMP ACCESS ROAD 3 OF 3

DRAWN BY: DM DESIGNED BY: DM APPROVED BY: BD

SCALE AS NOTED REV. NO. 0

KIEWIT PROJECT NO. 21162
KC PROJECT NO. 120174
DRAWING NO. C-203

DATE 07/26/2023 SH.NO. OF

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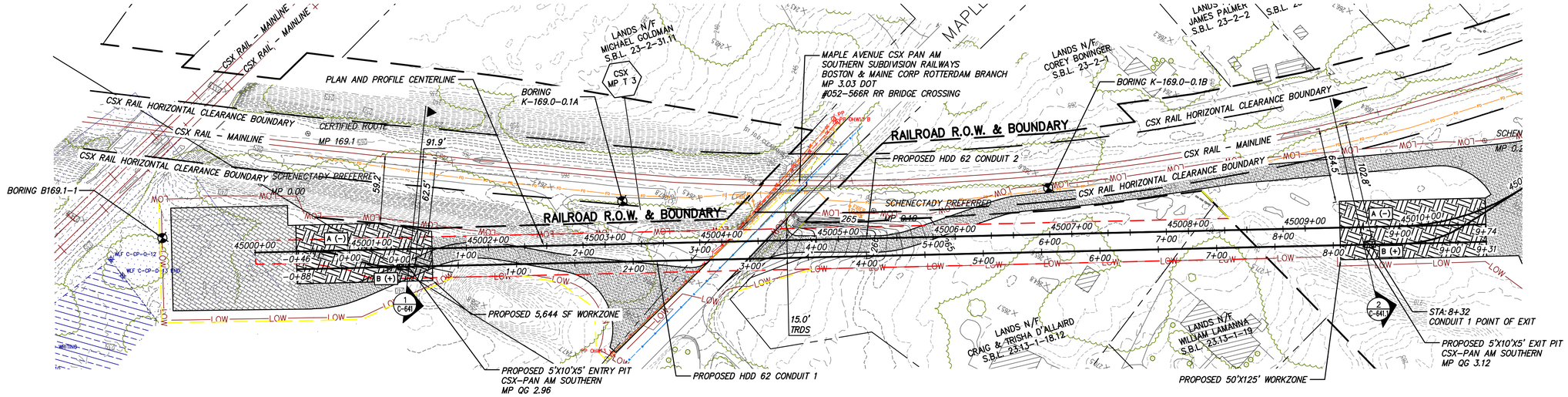
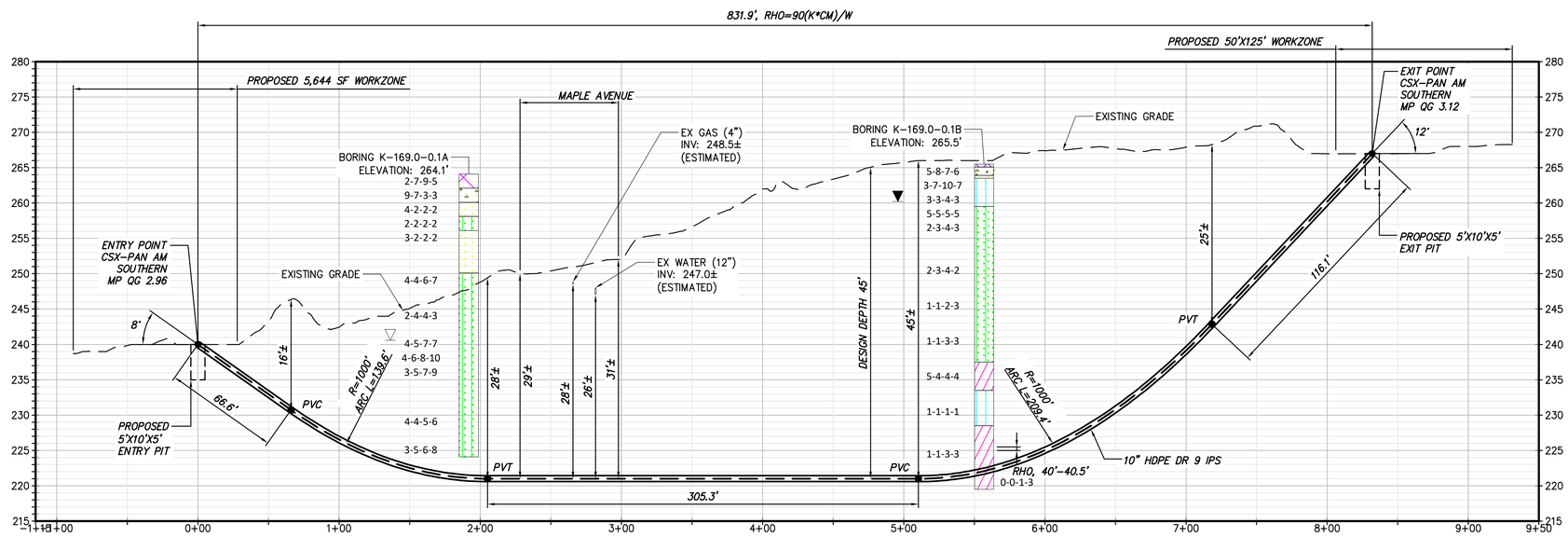


0 50 100
Scale in feet

PROPOSED HDD 62 PLAN VIEW

CONDUIT 1



PROPOSED HDD 62 PROFILE

CONDUIT 1

0 50 100
Scale in feet

NOTES:

1. CONTRACTOR SHALL PREPARE PLANS AND CONTINGENCIES TO MANAGE THE POTENTIAL VARIATION IN MUD/SLURRY RETURNS TO THE ENTRY DUE TO THE ELEVATION GAIN ENTRY TO EXIT.
2. A CONDUCTOR CASING IS RECOMMENDED ON THE EXIT TANGENT TO MAINTAIN THE HOLE AND PREVENT COLLAPSE IN THE ABSENCE OF HYDROSTATIC PRESSURE.

BORING LOG STRIP LEGEND

B101

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

2D strip logs shown at 10x exaggeration
3D strip logs have no exaggeration

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

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

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
PLAN AND PROFILE - HDD 62, CONDUIT 1

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

DRAWN BY: CJL DESIGNED BY: CJL APPROVED BY: JEO SCALE AS NOTED DATE 07/28/2023 REV. NO. X SH.NO.

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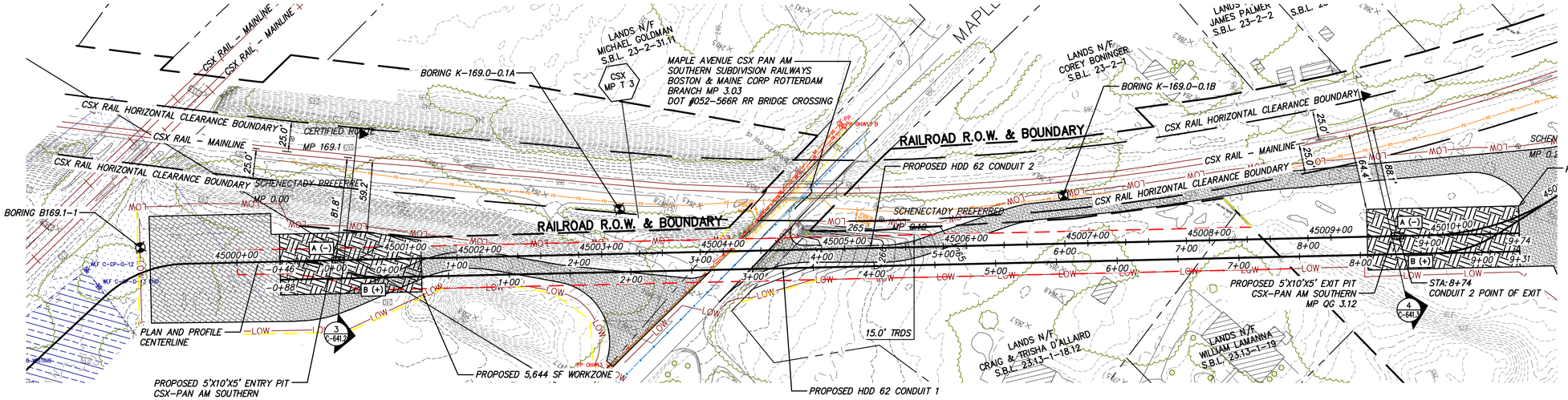
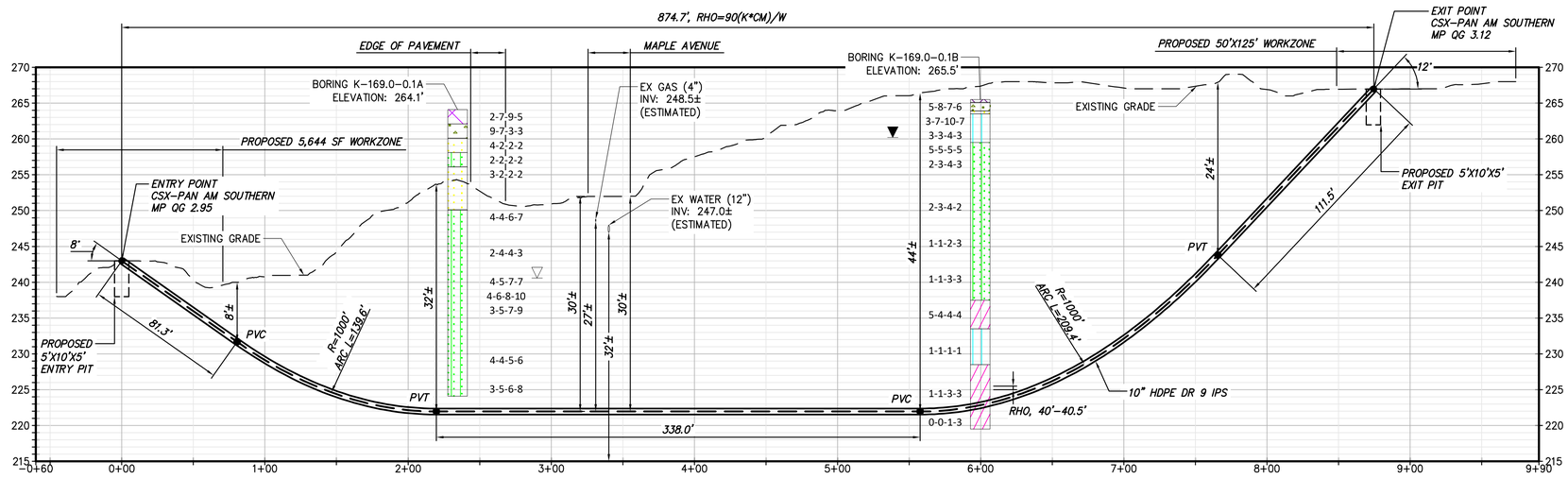


0 50 100
Scale in feet

PROPOSED HDD 62 PLAN VIEW

CONDUIT 2



0 50 100
Scale in feet

PROPOSED HDD 62 PROFILE

CONDUIT 2

NOTES:
1. CONTRACTOR SHALL PREPARE PLANS AND CONTINGENCIES TO MANAGE THE POTENTIAL VARIATION IN MUD/SLURRY RETURNS TO THE ENTRY DUE TO THE ELEVATION GAIN ENTRY TO EXIT.
2. A CONDUCTOR CASING IS RECOMMENDED ON THE EXIT TANGENT TO MAINTAIN THE HOLE AND PREVENT COLLAPSE IN THE ABSENCE OF HYDROSTATIC PRESSURE.

BORING LOG STRIP LEGEND

B101

Blow Counts per 6" = 10-10-10

Recovery %/RQD % = 95%/90%

11000psi =UCS

2D strip logs shown at 10x exaggeration

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	Boulder	Boulder
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	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
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	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
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	SM	SILTY SAND
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	SW-SM	Well Graded SAND with SILT
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	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
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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
PLAN AND PROFILE - HDD 62, CONDUIT 2

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

DRAWN BY: CJL DESIGNED BY: CJL APPROVED BY: JEO SCALE AS NOTED DATE 07/28/2023 REV. NO. X SH.NO.

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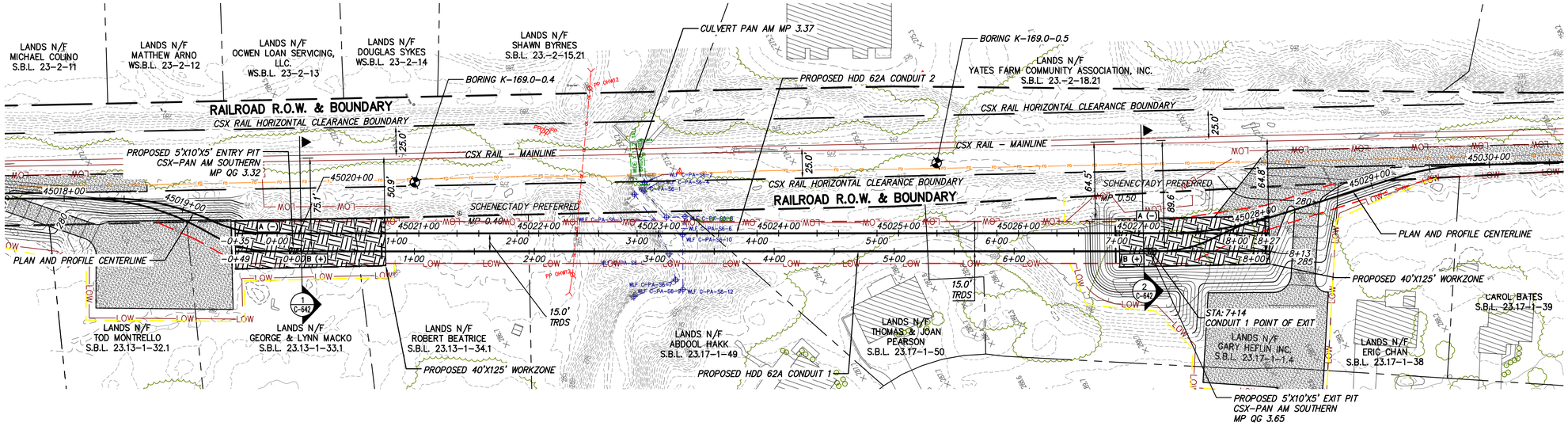
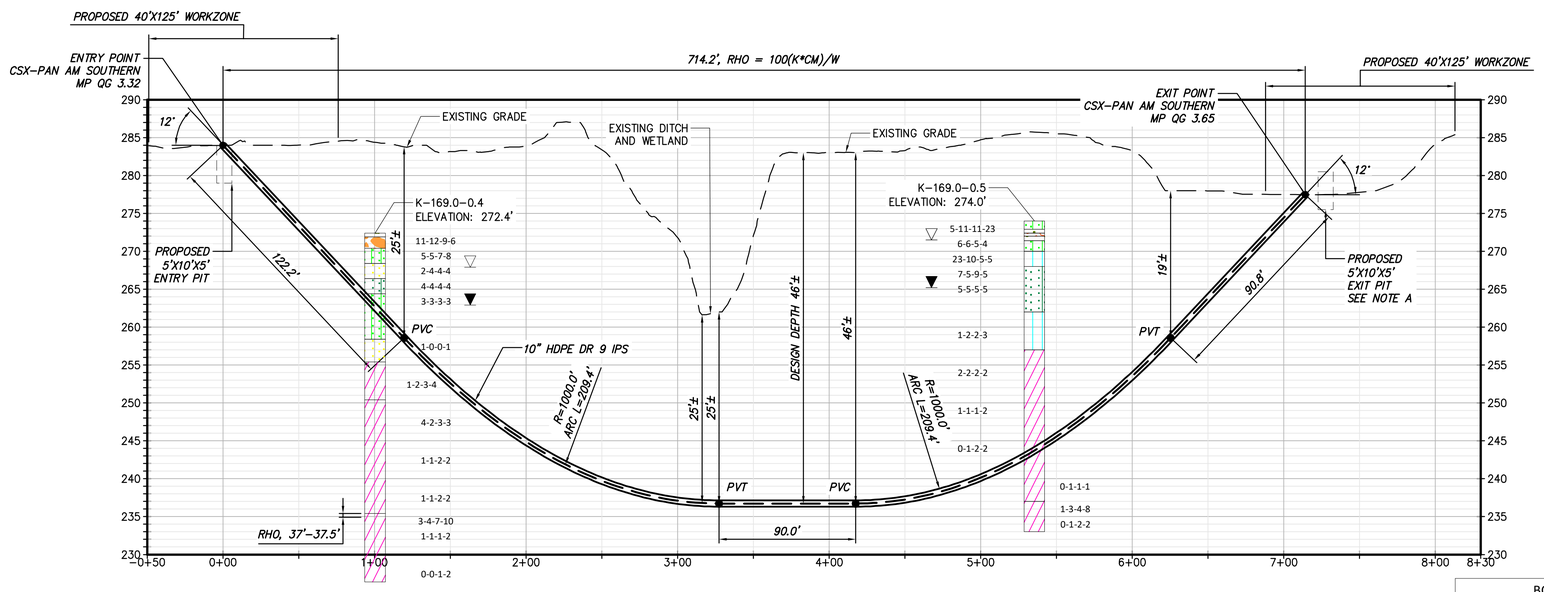


0 50 100
Scale in feet

PROPOSED HDD 62A PLAN VIEW

CONDUIT 1



0 50 100
Scale in feet

PROPOSED HDD 62A PROFILE

CONDUIT 1

NOTES:
A. DUE TO TEMPORARY GRADING THE PIT IS SHIFTED WITH RESPECT TO TEMPORARY GRADING AND LENGTHENS THE APPARENT HDD WHILE LEAVING THE PERMITTED AND ENGINEERED POINT AT ACTUAL PERMANENT GRADE.

BORING LOG STRIP LEGEND

B101

Blow Counts per 6" = 10-10-10

Recovery %/RQD % = 95%/90%

11000psi =UCS

2D strip logs shown at 10x exaggeration
3D strip logs have no exaggeration

Legend

	ASPHALT	Asphalt
	Bedrock	Bedrock
	Boulder	Boulder
	CH	Fat CLAY
	CH-MH	SILTY Fat CLAY
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	CL-ML	SILTY CLAY
	CONCRETE	Concrete
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	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
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	GW-GC	Well Graded GRAVEL with CLAY
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	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
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	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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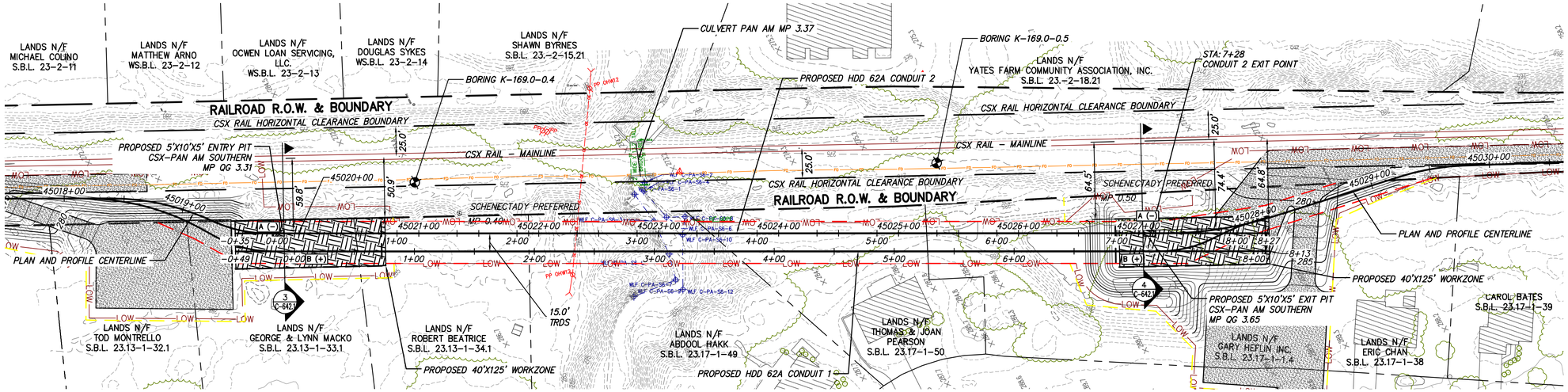
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	07/28/2023	ISSUED FOR CONSTRUCTION SUBMISSION	SPB	JEO

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
PLAN AND PROFILE - HDD 62A, CONDUIT 1

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-302**

DRAWN BY: RAC | DESIGNED BY: RAC | APPROVED BY: JEO | SCALE AS NOTED | REV. NO. X | DATE 07/28/2023 | SH.NO.

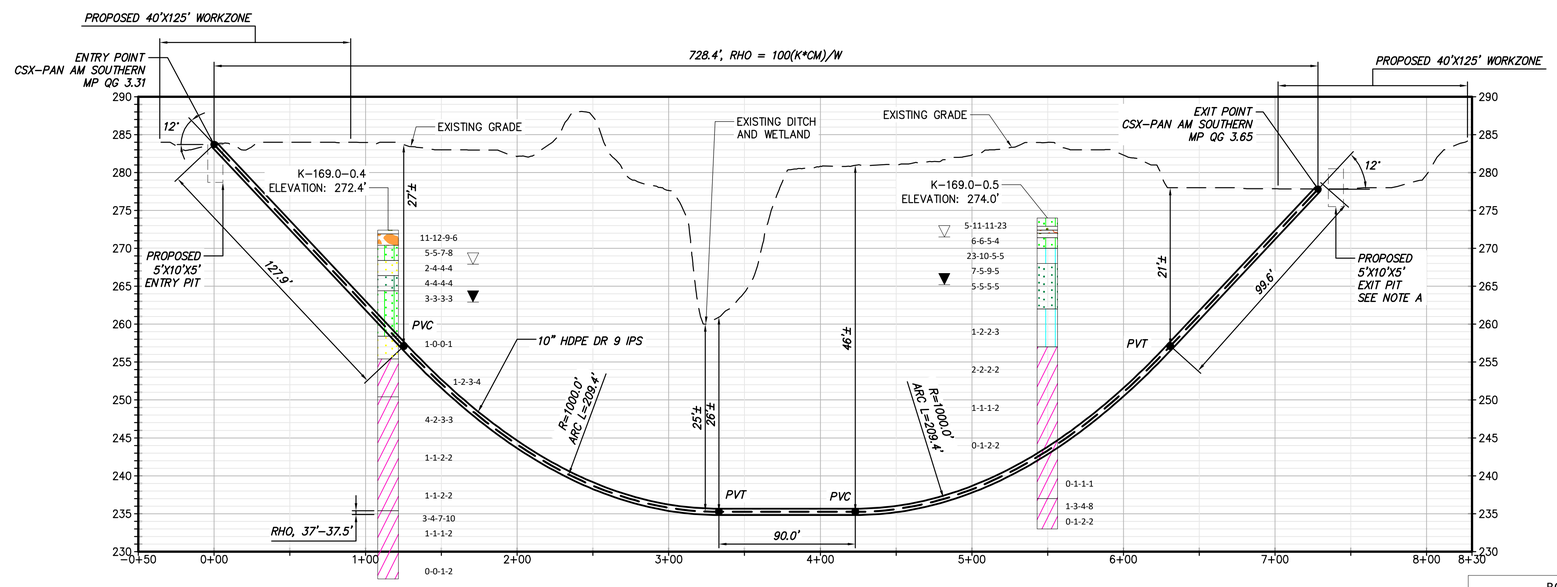
File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 4\DESIGN PACKAGE B\066076_P4B - C-302 - C-302A.DWG Saved: 7/26/2023 Plotted: 7/26/2023 8:55:41 AM Current User: Snyder, Morgan LastSavedBy: 8275



PROPOSED HDD 62A PLAN VIEW

CONDUIT 2

Scale in feet: 0 50 100



PROPOSED HDD 62A PROFILE

CONDUIT 2

Scale in feet: 0 50 100

NOTES:

A. DUE TO TEMPORARY GRADING THE PIT IS SHIFTED WITH RESPECT TO TEMPORARY GRADING AND LENGTHENS THE APPARENT HDD WHILE LEAVING THE PERMITTED AND ENGINEERED POINT AT ACTUAL PERMANENT GRADE.

BORING LOG STRIP LEGEND

B101

Blow Counts per 6" = 10-10-10

Recovery %/RQD % = 95%/90%

11000psi =UCS

2D strip logs shown at 10x exaggeration

3D strip logs have no exaggeration

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
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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
PLAN AND PROFILE - HDD 62A, CONDUIT 2

KIEWIT PROJECT NO. 21162

CHA PROJECT NO. 066076

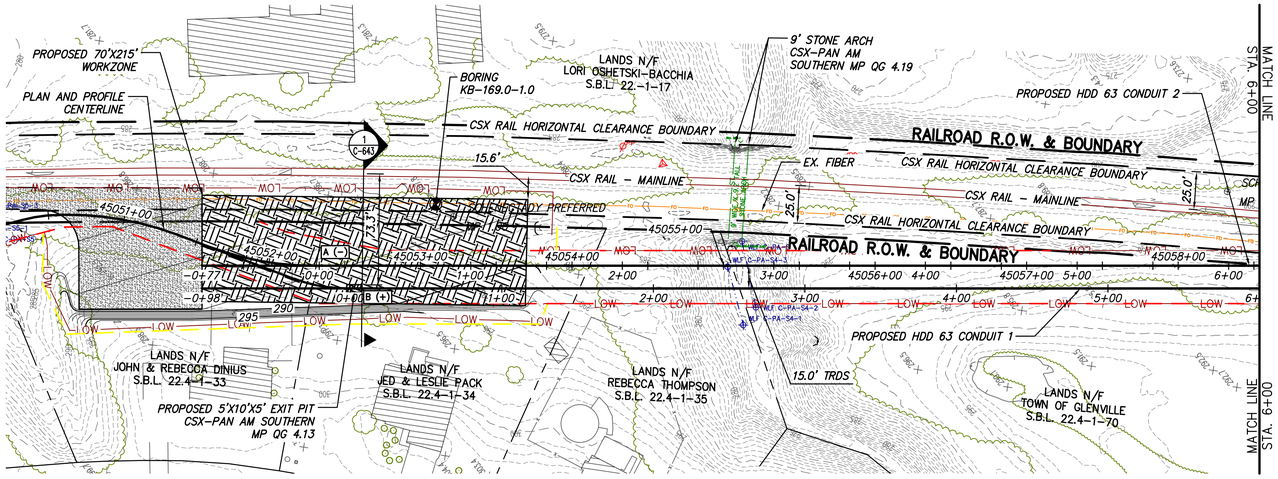
DRAWING NO. **C-302A**

DRAWN BY: RAC DESIGNED BY: RAC APPROVED BY: JEO

SCALE AS NOTED DATE 07/28/2023

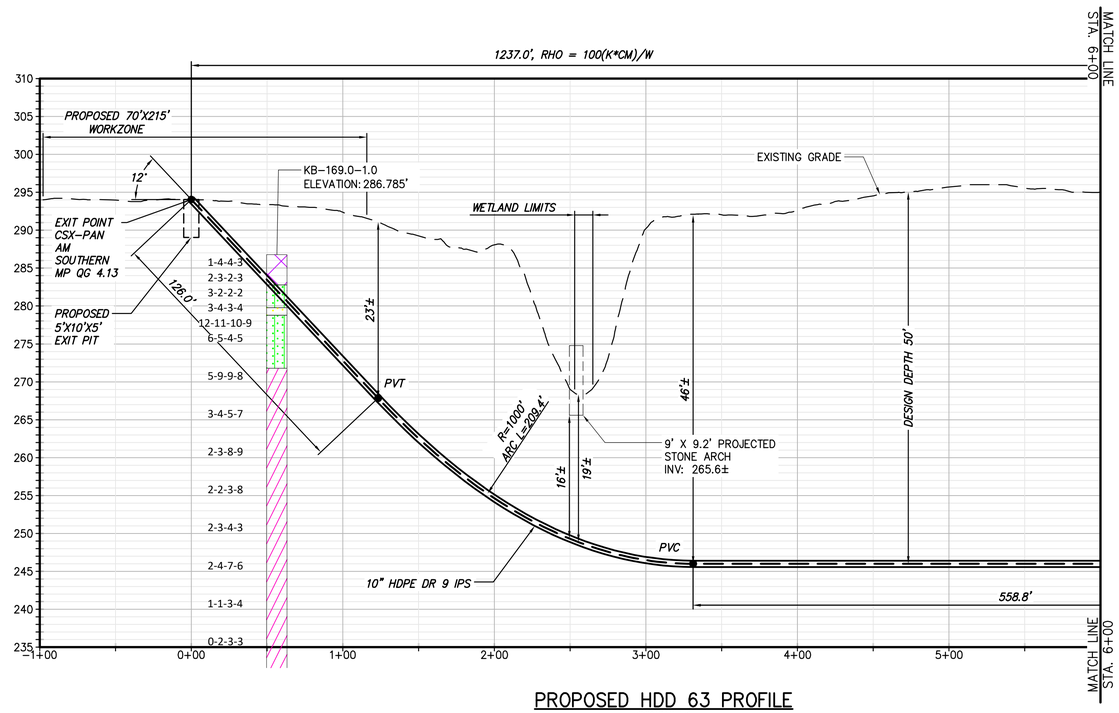
REV. NO. X SH.NO.

File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 4\DESIGN PACKAGE B\066076_P4B - C-302 - C-302A.DWG Saved: 7/26/2023 6:08:55 AM Plotted: 7/26/2023 8:56:24 AM Current User: Snyder, Morgan LastSavedBy: 8275



0 50 100
Scale in feet

PROPOSED HDD 63 PLAN VIEW
CONDUIT 1



PROPOSED HDD 63 PROFILE
CONDUIT 1

0 20 10 0
0 50 100
Scale in feet

BORING LOG STRIP LEGEND
B101
Blow Counts per 6" = 10-10-10
Recovery %/RQD % = 95%/90%
11000psi =UCS
2D strip logs shown at 10x exaggeration
3D strip logs have no exaggeration

Legend

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	Bedrock	Bedrock
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	ML	SILT
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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
PLAN AND PROFILE - HDD 63, CONDUIT 1

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-303**

DRAWN BY: JAS | DESIGNED BY: JDL | APPROVED BY: JEO | SCALE AS NOTED | REV. NO. 1 | DATE 07/28/2023 | SH.NO.

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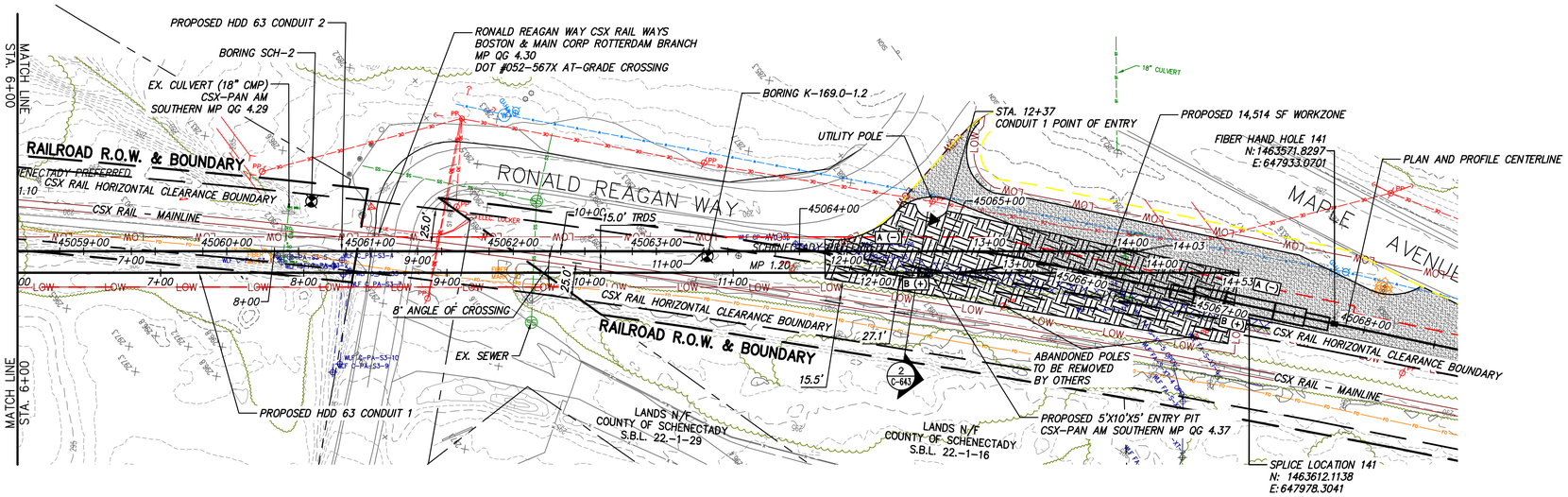
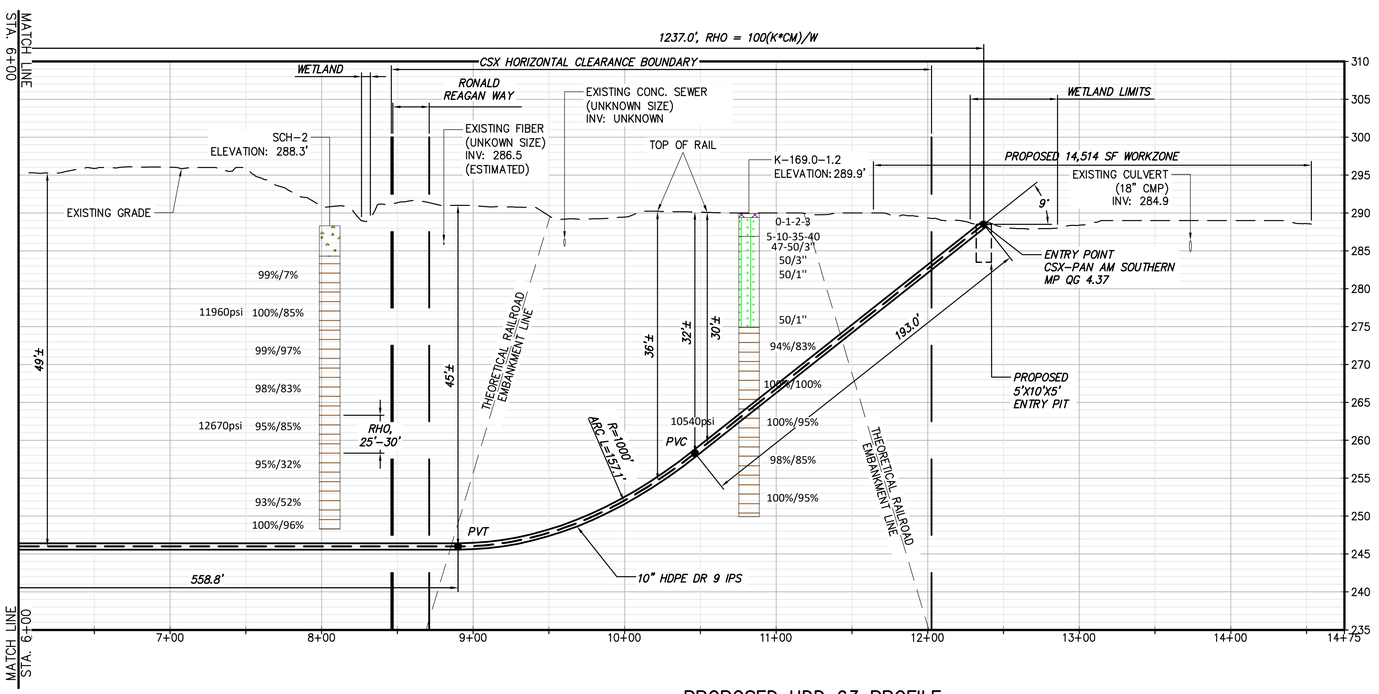


0 50 100
Scale in feet

PROPOSED HDD 63 PLAN VIEW

CONDUIT 1



PROPOSED HDD 63 PROFILE

CONDUIT 1

0 50 100
Scale in feet

20
10
0

BORING LOG STRIP LEGEND

B101

Blow Counts per 6" = 10-10-10

Recovery %/RQD % = 95%/90%

11000psi =UCS

2D strip logs shown at 10x exaggeration

3D strip logs have no exaggeration

Legend		
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	Bedrock	Bedrock
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	CH-MH	SILTY Fat CLAY
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	CONCRETE	Concrete
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	OL	ORGANIC Lean CLAY
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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
PLAN AND PROFILE - HDD 63, CONDUIT 1

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-303.1**

DRAWN BY: JAS | DESIGNED BY: JDL | APPROVED BY: JEO | SCALE AS NOTED | REV. NO. 1 | DATE 07/28/2023 | SH.NO.

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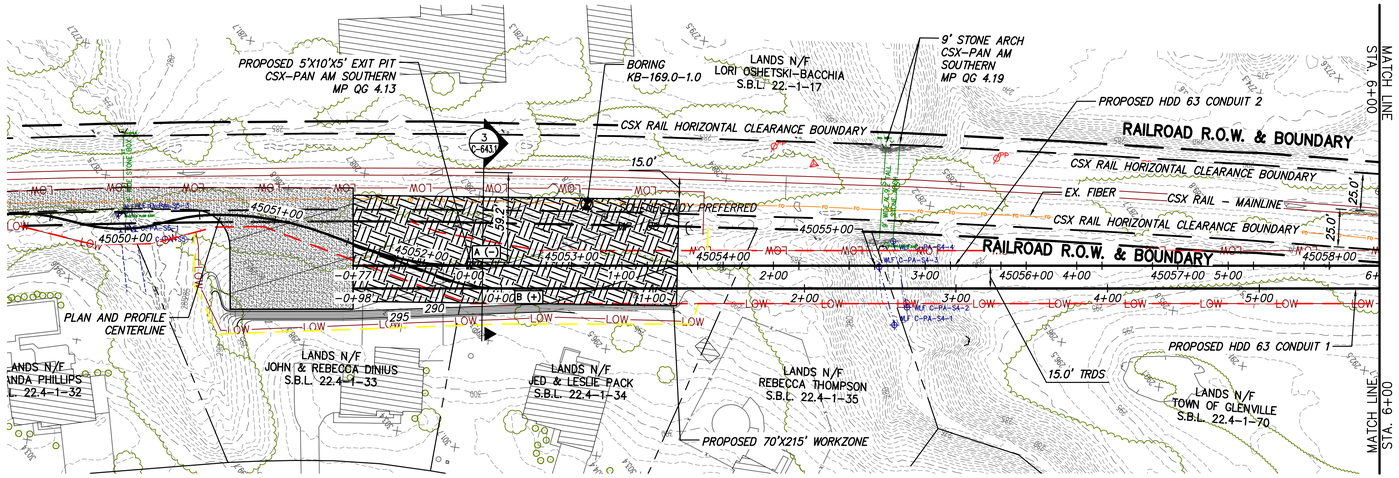
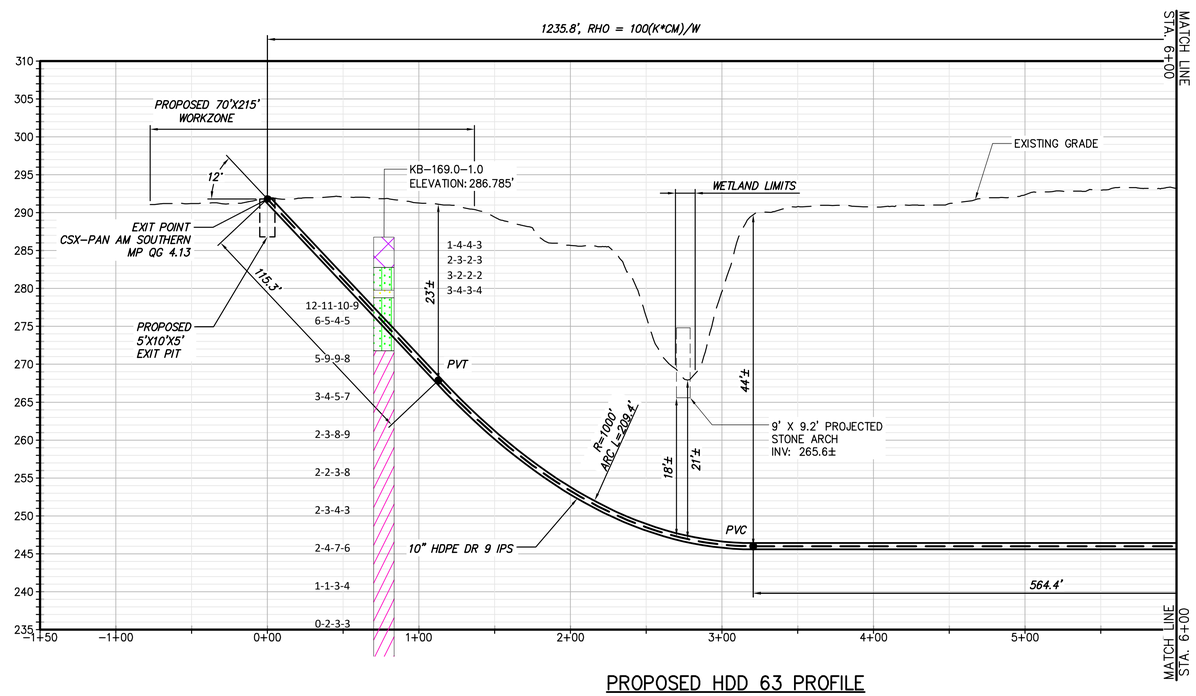


0 50 100
Scale in feet

PROPOSED HDD 63 PLAN VIEW

CONDUIT 2



PROPOSED HDD 63 PROFILE

CONDUIT 2

20
10
0
0 50 100
Scale in feet

BORING LOG STRIP LEGEND

B101

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
PLAN AND PROFILE - HDD 63, CONDUIT 2

DRAWN BY: JAS | DESIGNED BY: JDL | APPROVED BY: JEO | SCALE AS NOTED | REV. NO. 1

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-303A**
DATE 07/28/2023
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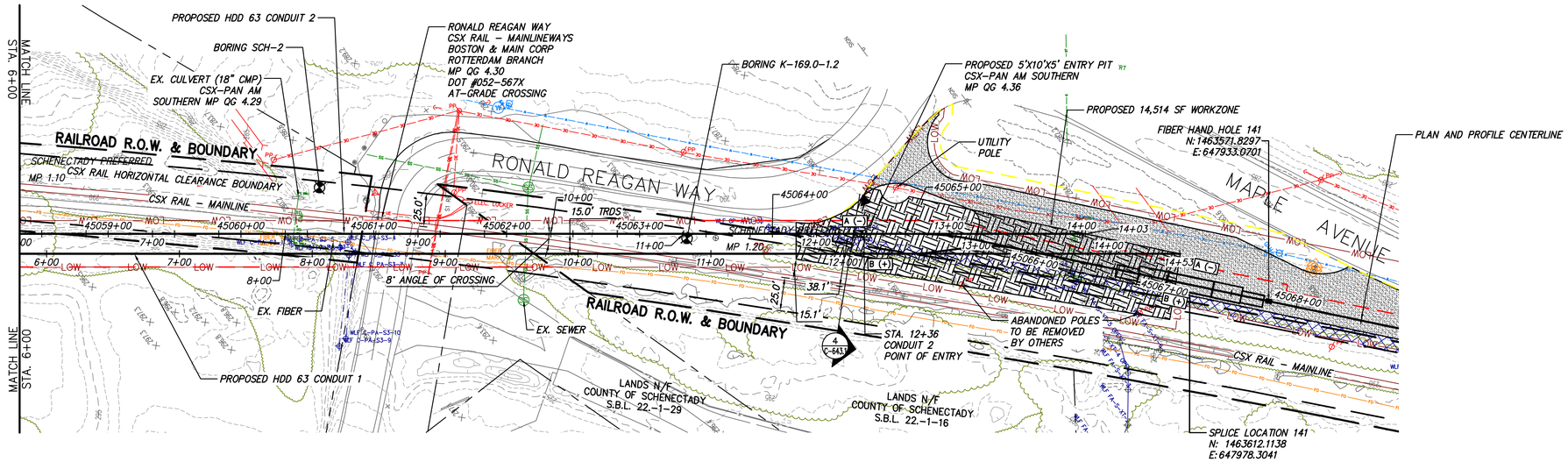
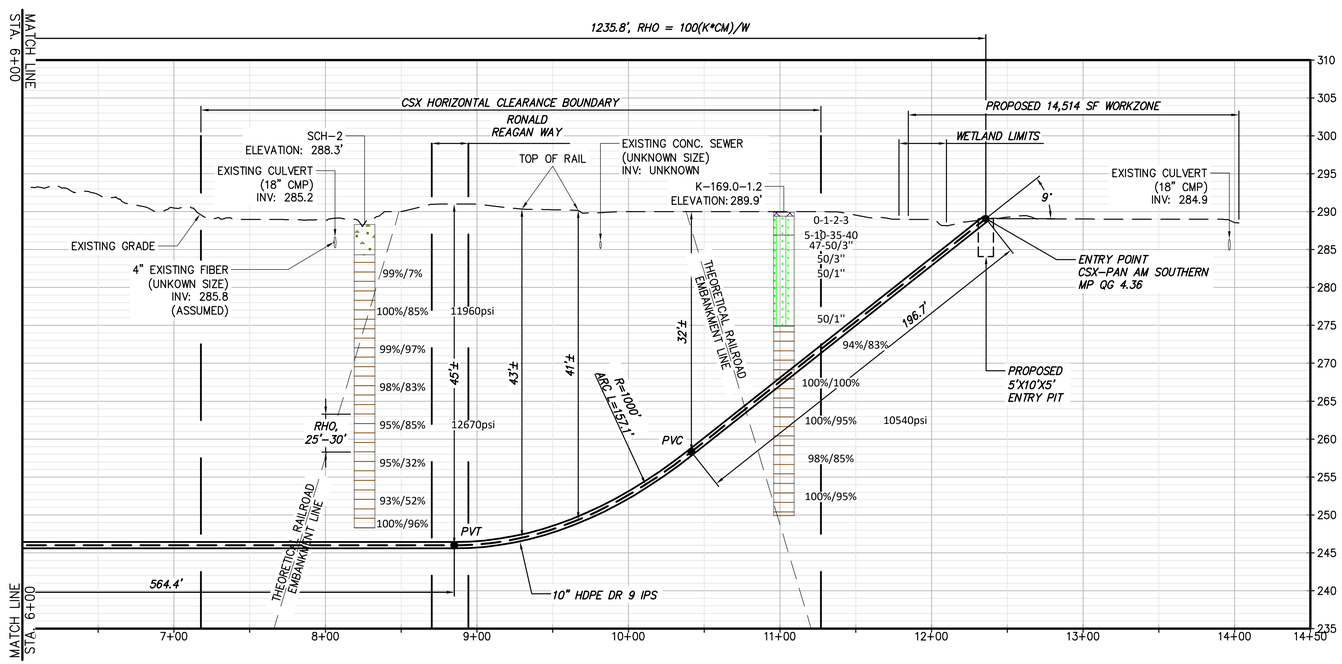


0 50 100
Scale in feet

PROPOSED HDD 63 PLAN VIEW

CONDUIT 2



PROPOSED HDD 63 PROFILE

CONDUIT 2

20 10 0
0 50 100
Scale in feet

BORING LOG STRIP LEGEND

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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	07/28/2023	ISSUED FOR CONSTRUCTION SUBMISSION	SPB	JEO

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
PLAN AND PROFILE - HDD 63, CONDUIT 2

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-303A.1**

DRAWN BY: JAS | DESIGNED BY: JDL | APPROVED BY: JEO | SCALE AS NOTED | REV. NO. 1 | DATE 07/28/2023 | SH.NO.

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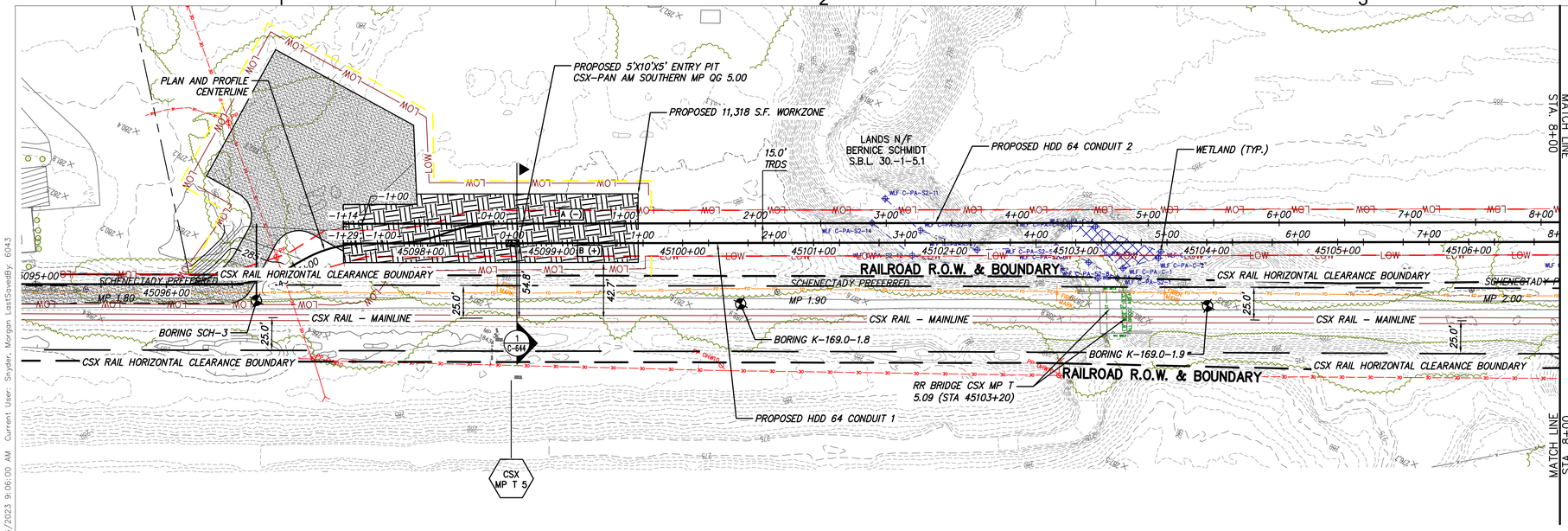
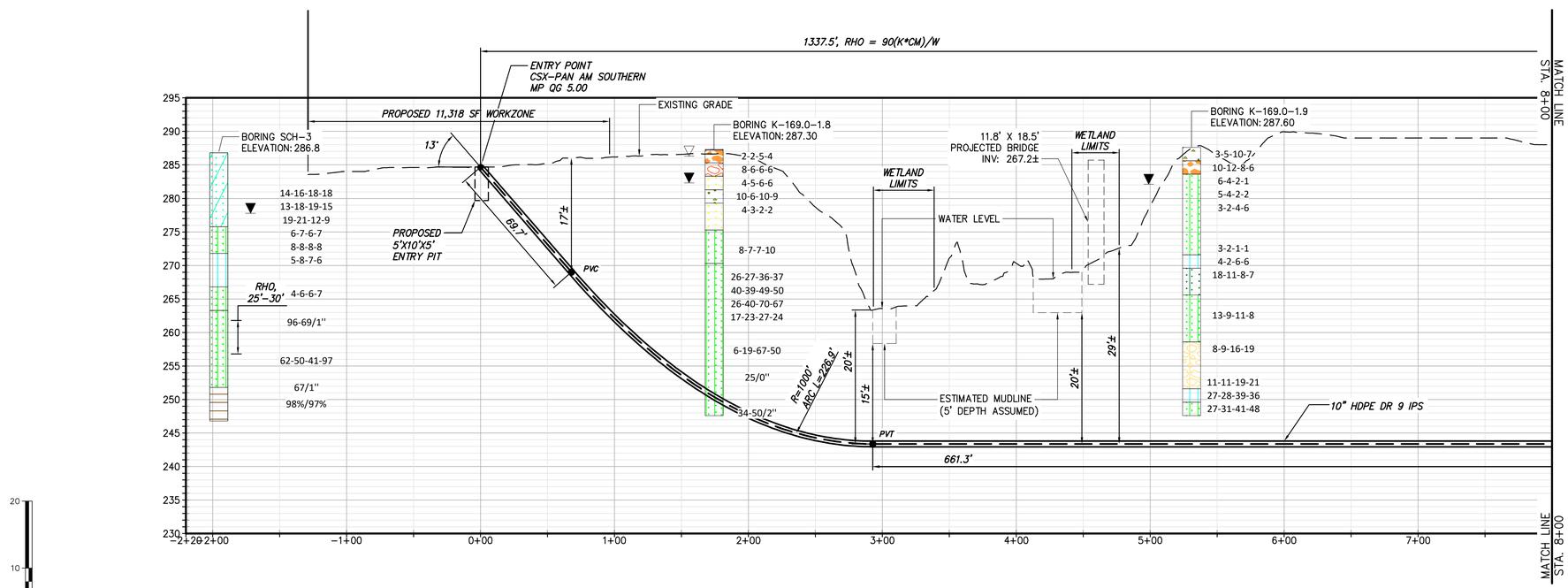


PROPOSED HDD 64 PLAN VIEW

CONDUIT 1



PROPOSED HDD 64 PROFILE

CONDUIT 1

NOTE:
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BORING LOG STRIP LEGEND

B101

Blow Counts per 6" = 10-10-10

Recovery %/RQD % = 95%/90%

11000psi =UCS

2D strip logs shown at 10x exaggeration

3D strip logs have no exaggeration

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
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OL/OH	ORGANIC SOIL
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CHPE Champlain Hudson Power Express

Kiewit

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
PLAN AND PROFILE - HDD 64, CONDUIT 1

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-304**

DRAWN BY: ZH | DESIGNED BY: ZH | APPROVED BY: JEO | SCALE AS NOTED | DATE 07/28/2023 | REV. NO. X | SH.NO.

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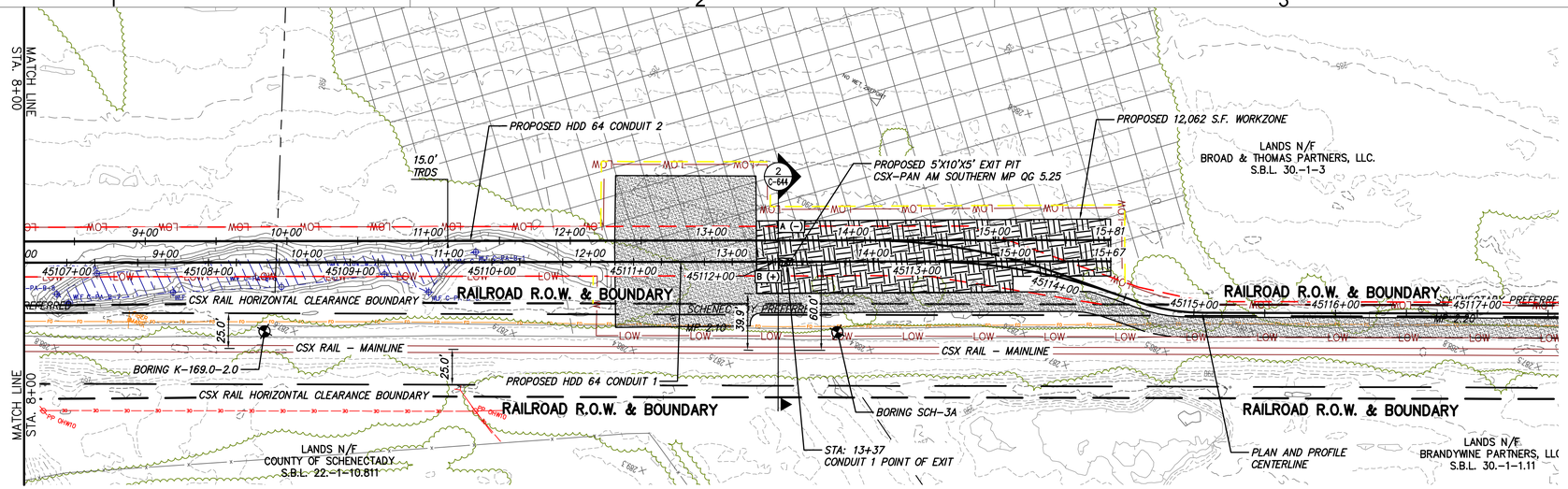

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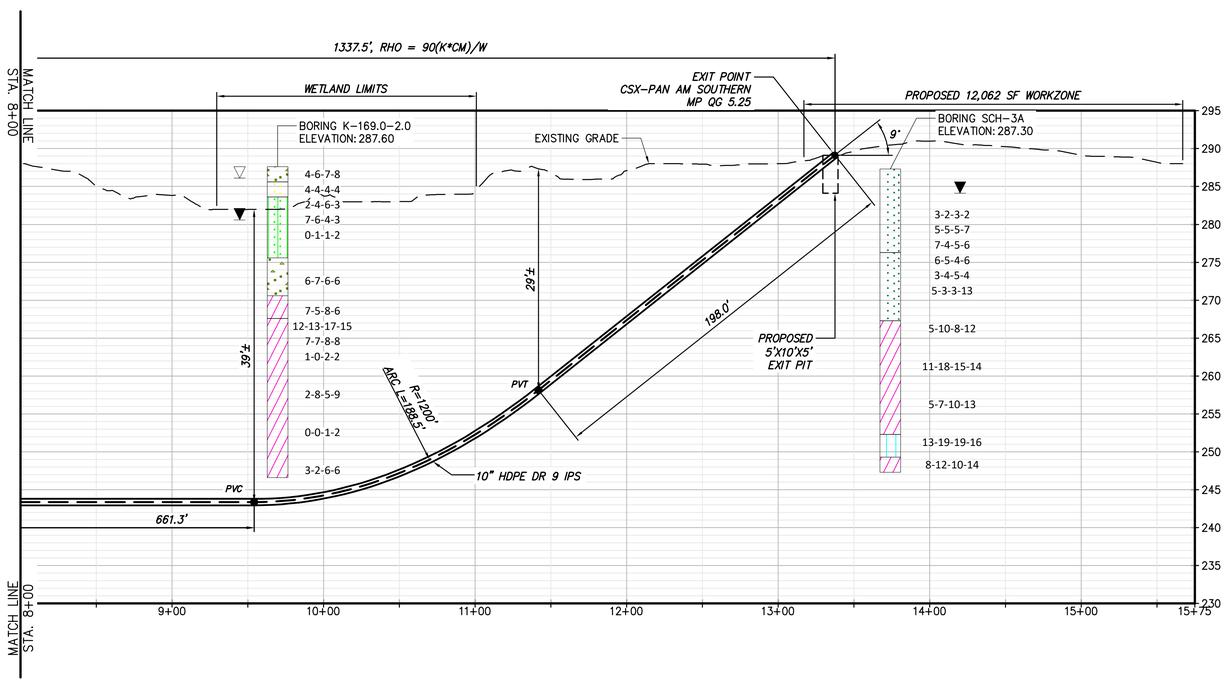
Scale in feet

PROPOSED HDD 64 PLAN VIEW
CONDUIT 1



0 50 100
Scale in feet

PROPOSED HDD 64 PROFILE
CONDUIT 1

BORING LOG STRIP LEGEND
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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
PLAN AND PROFILE - HDD 64, CONDUIT 1

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-304.1**

DRAWN BY: ZH | DESIGNED BY: ZH | APPROVED BY: JEO | SCALE AS NOTED | DATE 07/28/2023 | REV. NO. X | SH.NO.

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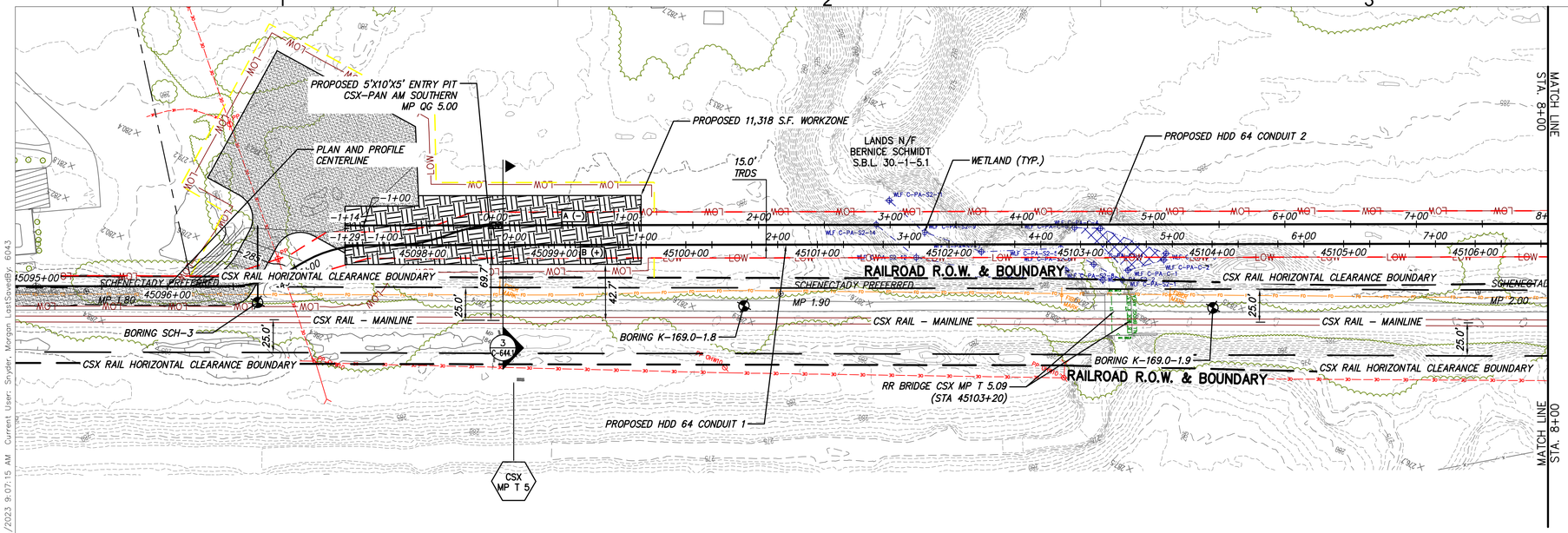
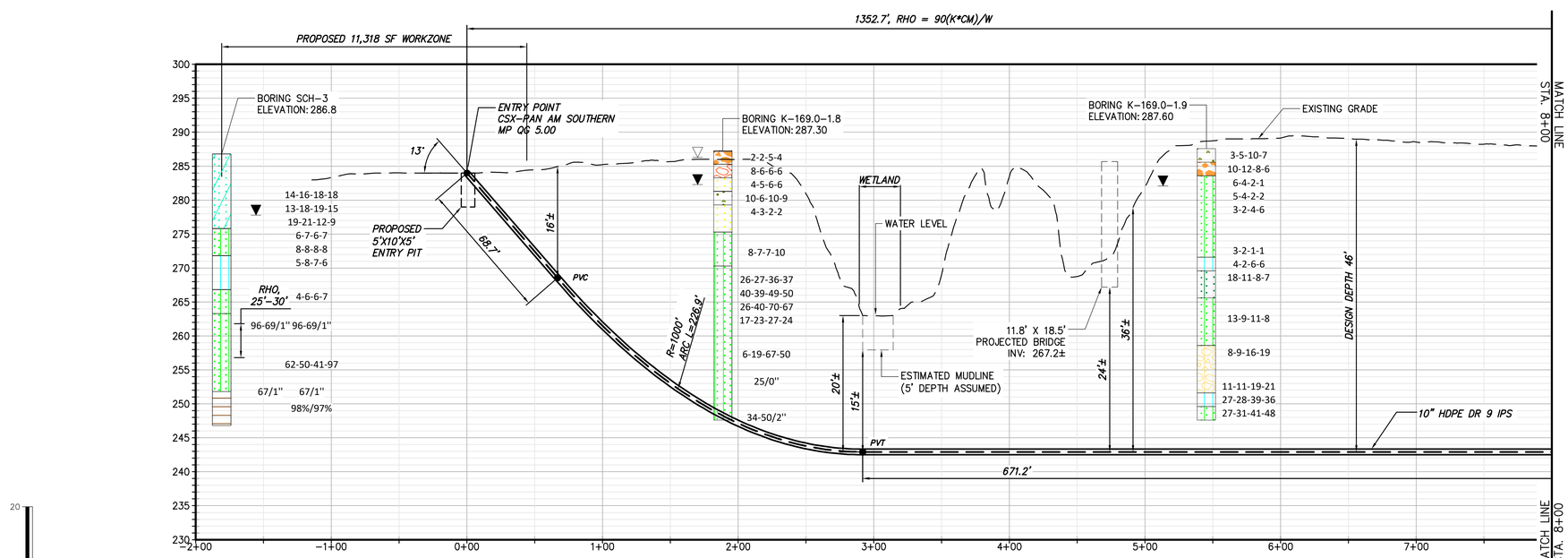


PROPOSED HDD 64 PLAN VIEW

CONDUIT 2



PROPOSED HDD 64 PROFILE

CONDUIT 2

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
PLAN AND PROFILE - HDD 64, CONDUIT 2

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-304A**

DRAWN BY: ZH | DESIGNED BY: ZH | APPROVED BY: JEO | SCALE AS NOTED | REV. NO. X | DATE 07/28/2023 | SH.NO.

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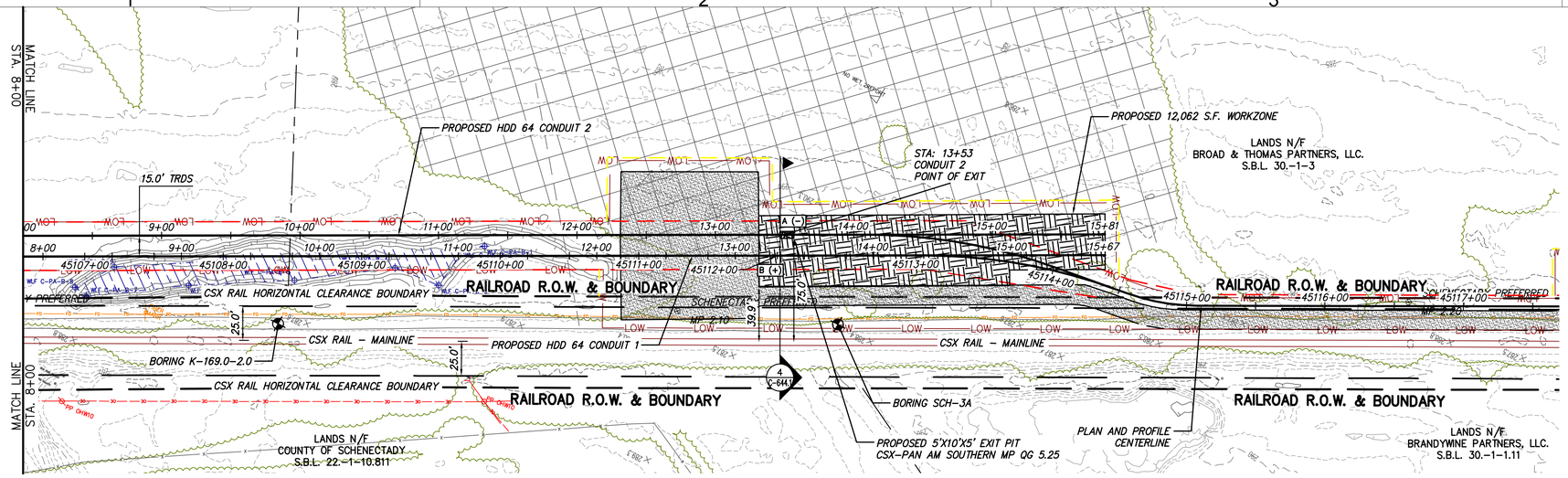

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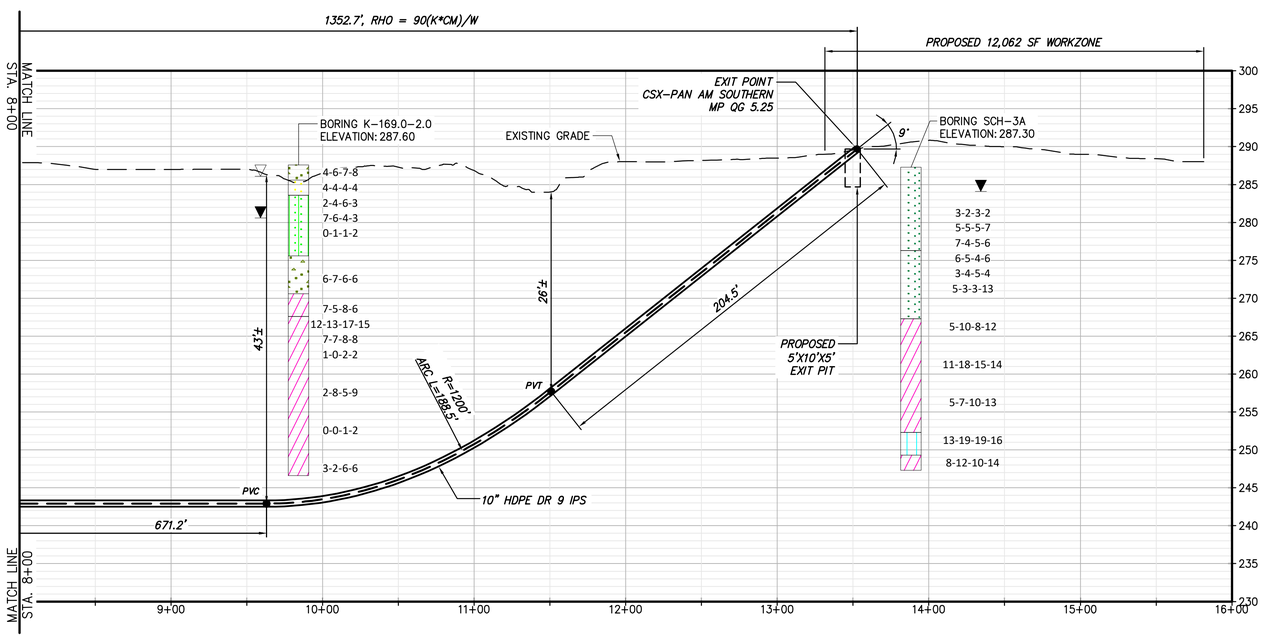
Scale in feet

PROPOSED HDD 64 PLAN VIEW

CONDUIT 2



20
10
0
0 50 100
Scale in feet

PROPOSED HDD 64 PROFILE

CONDUIT 2

BORING LOG STRIP LEGEND

B101

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SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
PLAN AND PROFILE - HDD 64, CONDUIT 2

DRAWN BY: ZH | DESIGNED BY: ZH | APPROVED BY: JEO | SCALE AS NOTED | REV. NO. X

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-304A.1**
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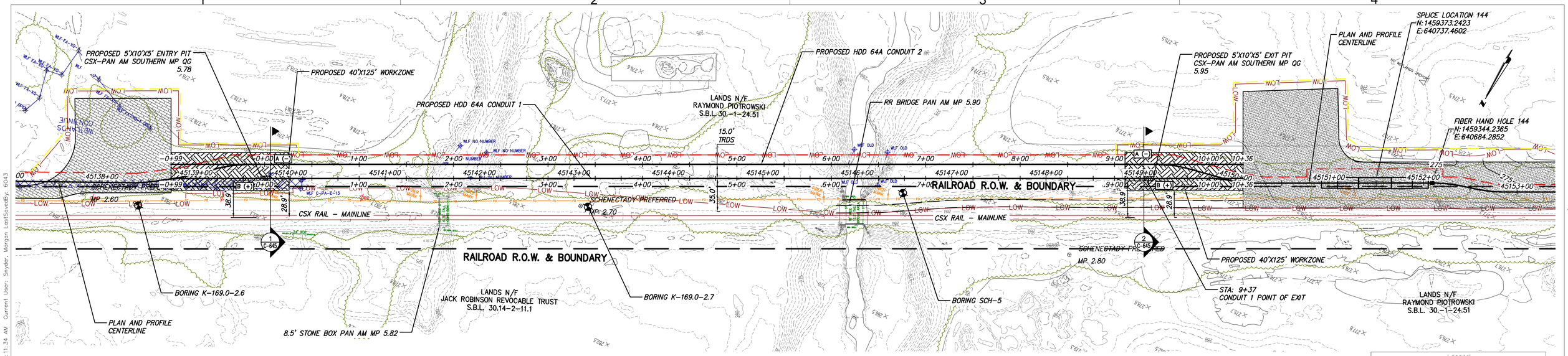

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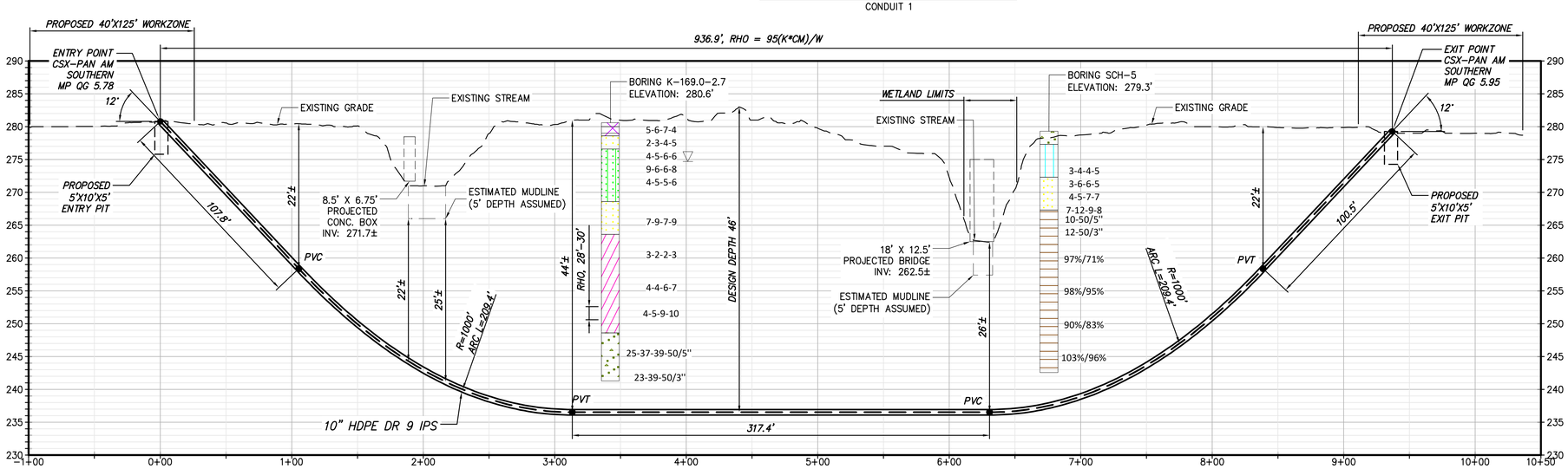
Scale in feet

PROPOSED HDD 64A PLAN VIEW

CONDUIT 1



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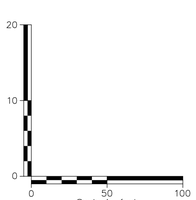
PROPOSED HDD 64A PROFILE

CONDUIT 1



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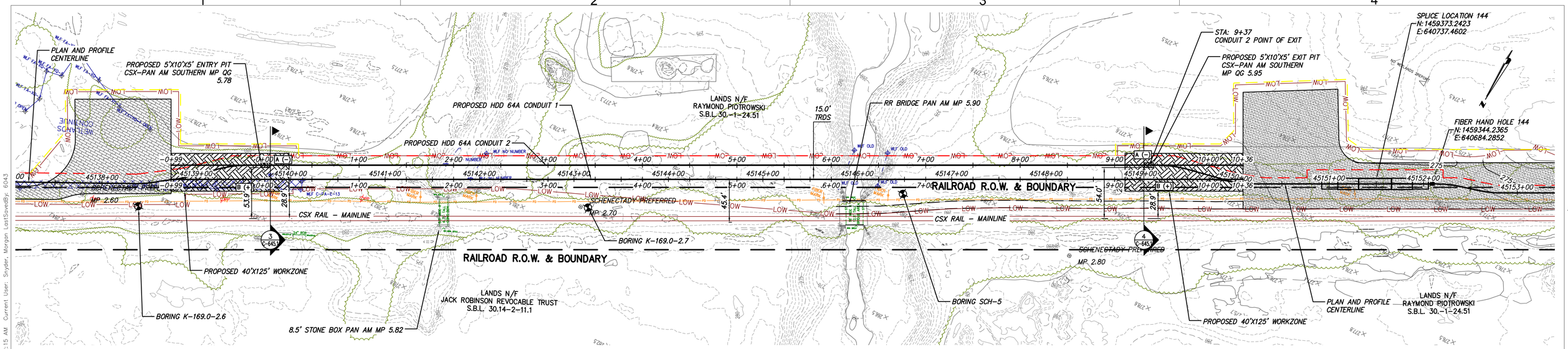
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	07/28/2023	ISSUED FOR CONSTRUCTION SUBMISSION	SPB	JEO

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 7 (PACKAGE 4B) - CSX - PAN AM SOUTHERN
PLAN AND PROFILE - HDD 64A, CONDUIT 1

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-305**

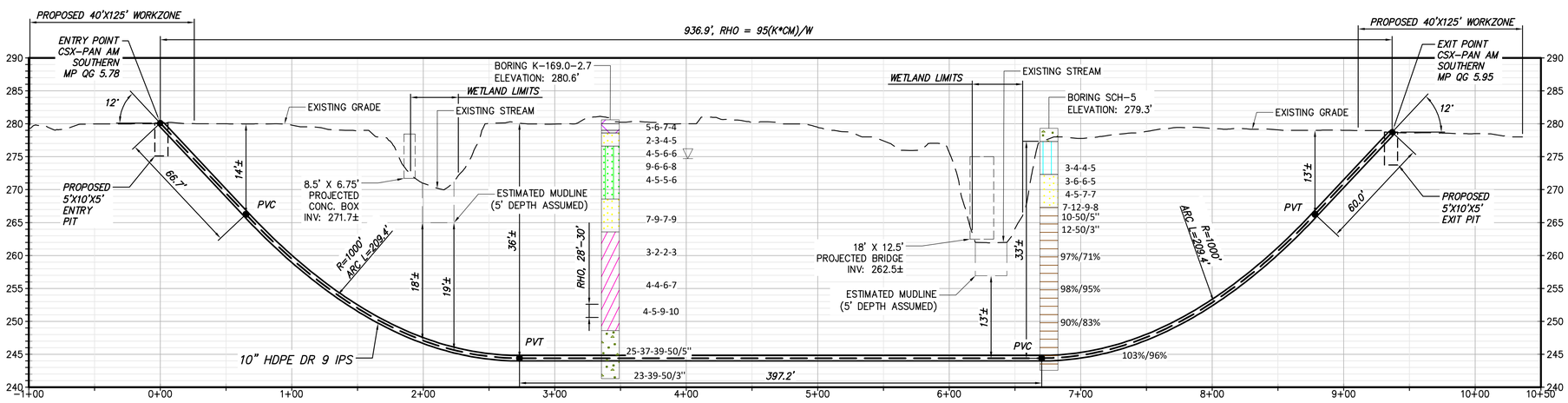
DRAWN BY: CJL | DESIGNED BY: CJL | APPROVED BY: JEO | SCALE: AS NOTED | DATE: 07/28/2023 | REV. NO. X | SH.NO.

File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 4\DESIGN PACKAGE B\066076_P4B - C-305 - C-305A.DWG Saved: 7/26/2023 7:12:30 AM Plotted: 7/26/2023 9:11:34 AM Current User: Snyder, Morgan LastSavedBy: 6043



PROPOSED HDD 64A PLAN VIEW

CONDUIT 2



PROPOSED HDD 64A PROFILE

CONDUIT 2

BORING LOG STRIP LEGEND

B101

Blow Counts per 6" = 10-10-10

Recovery %/RQD % = 95%/90%

11000psi =UCS

2D strip logs shown at 10x exaggeration

3D strip logs have no exaggeration

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

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