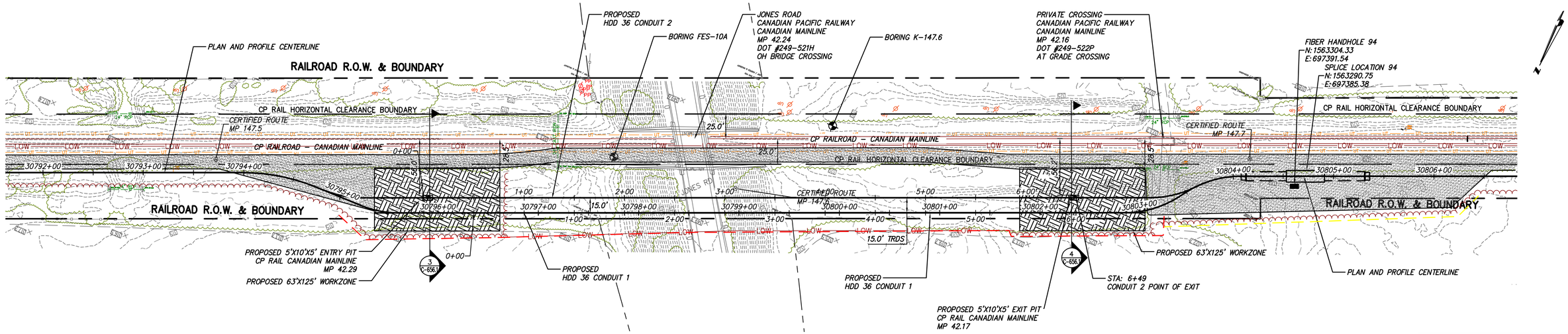
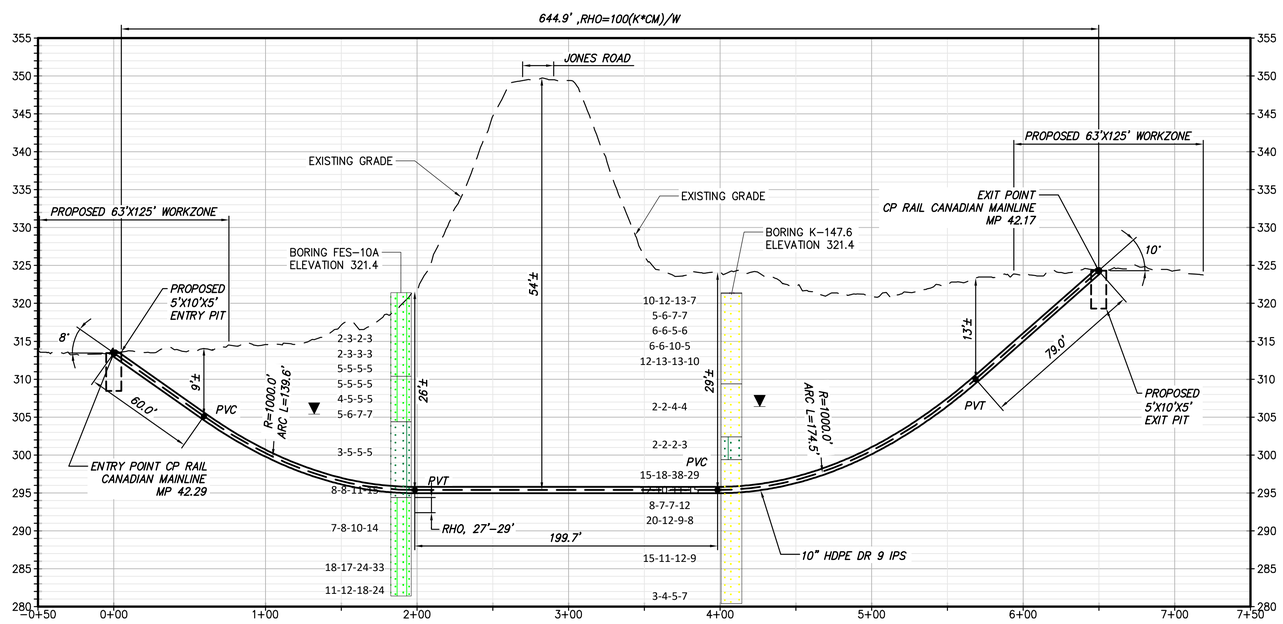


PROPOSED HDD 36 PLAN VIEW

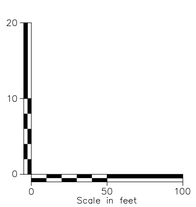
CONDUIT 2



PROPOSED HDD 36 PROFILE

CONDUIT 2

NOTE:
1) THE USE OF CONDUCTOR CASINGS IS RECOMMENDED TO MITIGATE THE POTENTIAL RELEASE OF THE DRILLING FLUIDS.



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
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CHPE Champlain Hudson Power Express

Kiewit

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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	04/05/2023	FINAL EM&CP SUBMISSION	MCS	JEO

CHAMPLAIN HUDSON POWER EXPRESS

SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON

PLAN AND PROFILE - HDD 36, CONDUIT 2

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

SCALE AS NOTED

REV. NO. X

KIEWIT PROJECT NO. 21162

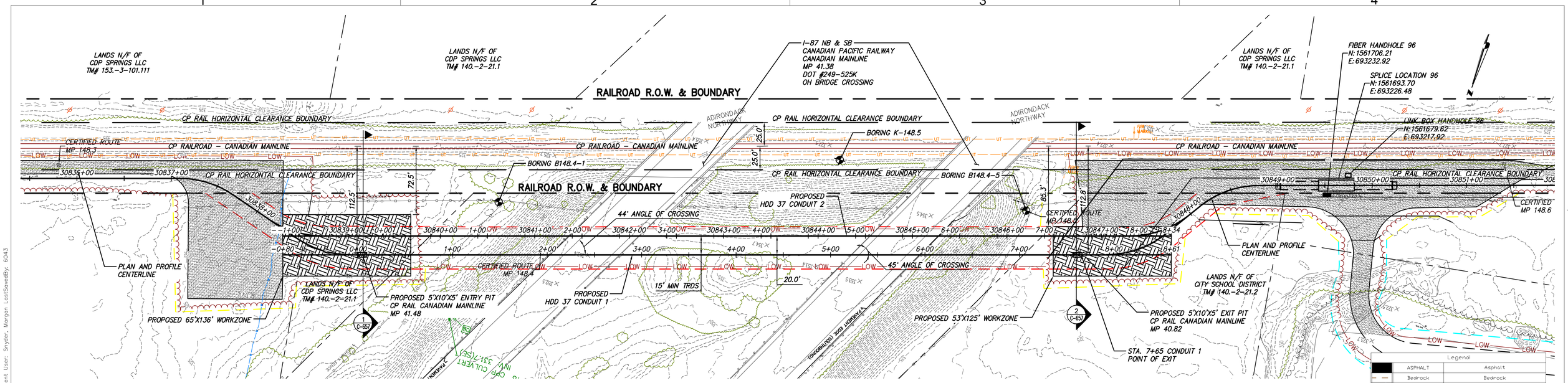
CHA PROJECT NO. 066076

DRAWING NO. **C-316A**

DATE 04/05/2023

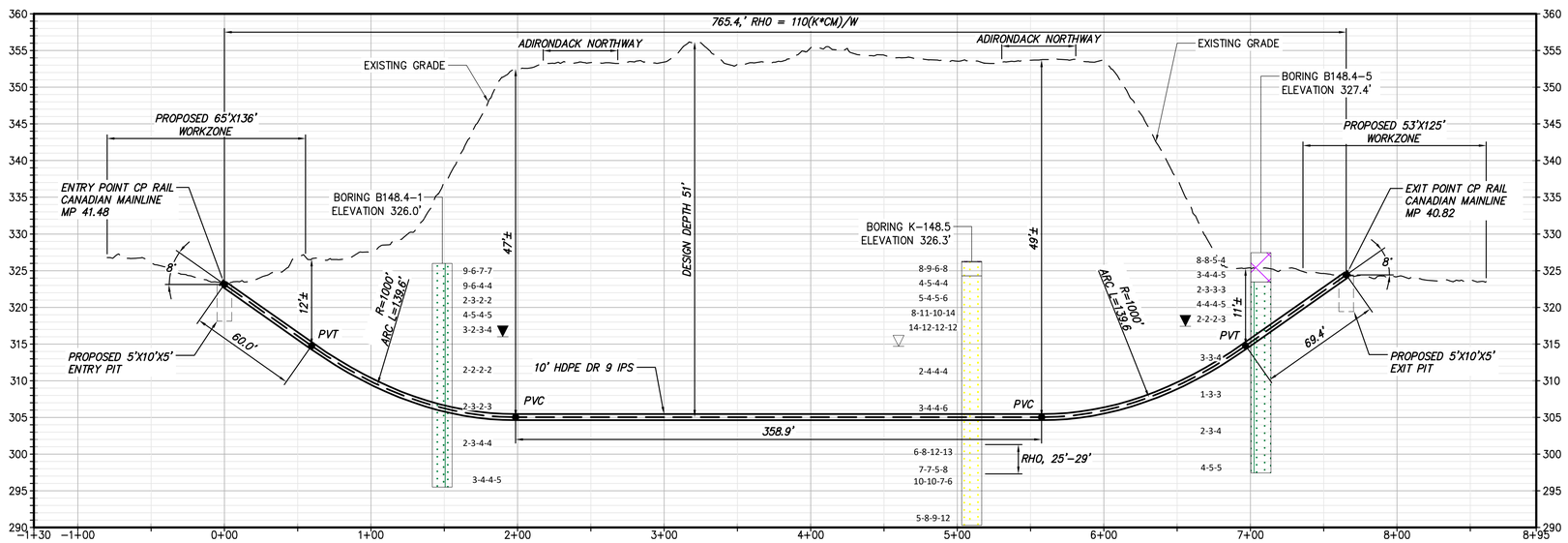
SH.NO.

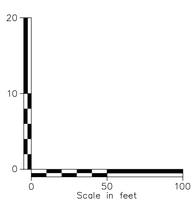
File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 3\066076_P3_C-317 - C317A.DWG Saved: 4/4/2023 4:39:43 PM Plotted: 4/4/2023 4:45:44 PM Current User: Snyder, Morgan LastSavedBy: 6043



PROPOSED HDD 37 PLAN VIEW

CONDUIT 1





PROPOSED HDD 37 PROFILE

CONDUIT 1

NOTE:
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BORING LOG STRIP LEGEND

B101

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Recovery %/RQD % = 95%/90%

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Legend	
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Weathered Rock	Undefined
Water Table	Water Table during drilling
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0	04/05/2023	FINAL EM&CP SUBMISSION	MCS	JEO

CHAMPLAIN HUDSON POWER EXPRESS

SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON

PLAN AND PROFILE - HDD 37, CONDUIT 1

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

KIEWIT PROJECT NO. 21162

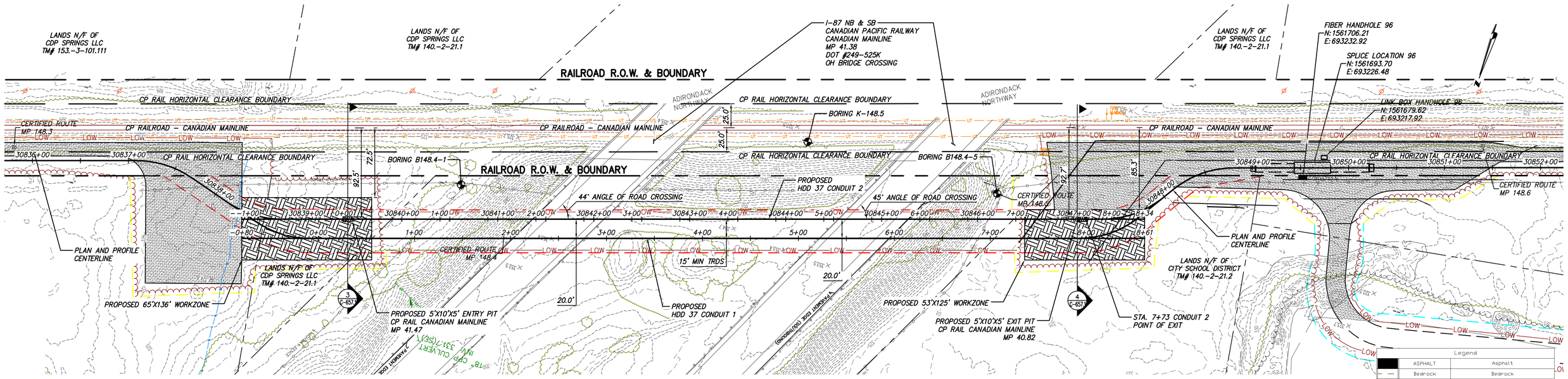
CHA PROJECT NO. 066076

DRAWING NO. C-317

DATE 04/05/2023

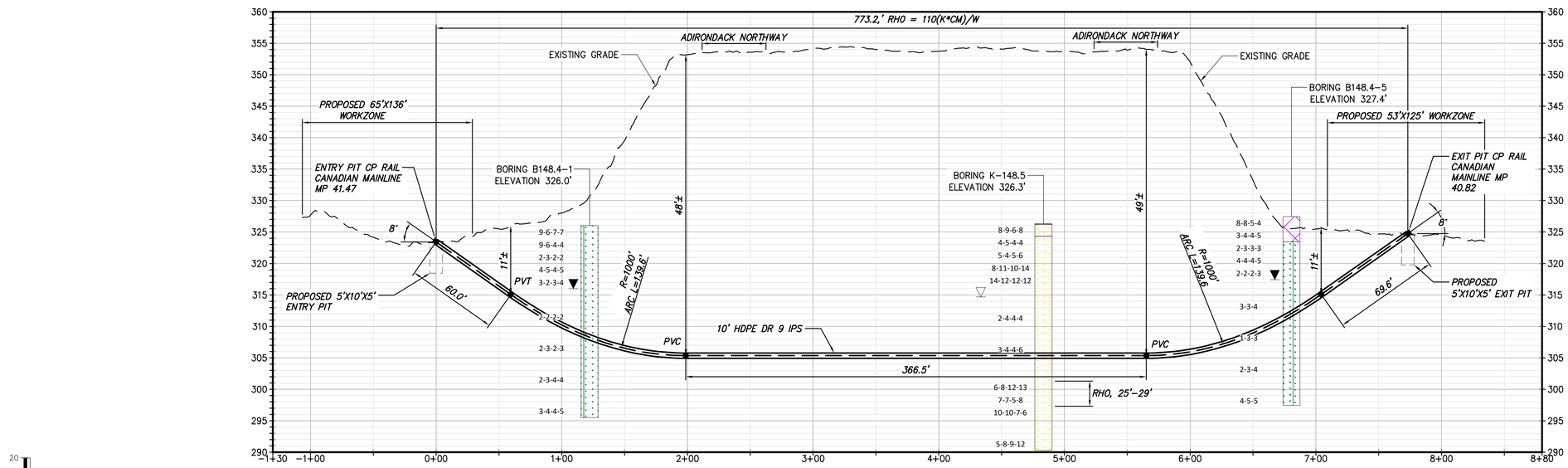
SH.NO.

File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 3\066076_P3_C-318 - C318A.DWG Saved: 4/12/2023 10:11:52 AM Plotted: 4/12/2023 10:16:10 AM Current User: Snyder, Morgan LastSavedBy: 6043



PROPOSED HDD 37 PLAN VIEW

CONDUIT 2



PROPOSED HDD 37 PROFILE

CONDUIT 2

NOTE:
1) THE USE OF CONDUCTOR CASINGS IS RECOMMENDED TO MITIGATE THE POTENTIAL RELEASE OF THE DRILLING FLUIDS.

BORING LOG STRIP LEGEND

B101

Blow Counts per 6" = 10-10-10

Recovery %/RQD % = 95%/90%

11000psi =UCS

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Legend

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Boulder	Boulder
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CONCRETE	Concrete
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Water Table	Water Table during drilling
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CHPE Champlain Hudson Power Express

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0	04/05/2023	FINAL EM&CP SUBMISSION	MCS	JEO

CHAMPLAIN HUDSON POWER EXPRESS

SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON

PLAN AND PROFILE - HDD 37, CONDUIT 2

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

KIEWIT PROJECT NO. 21162

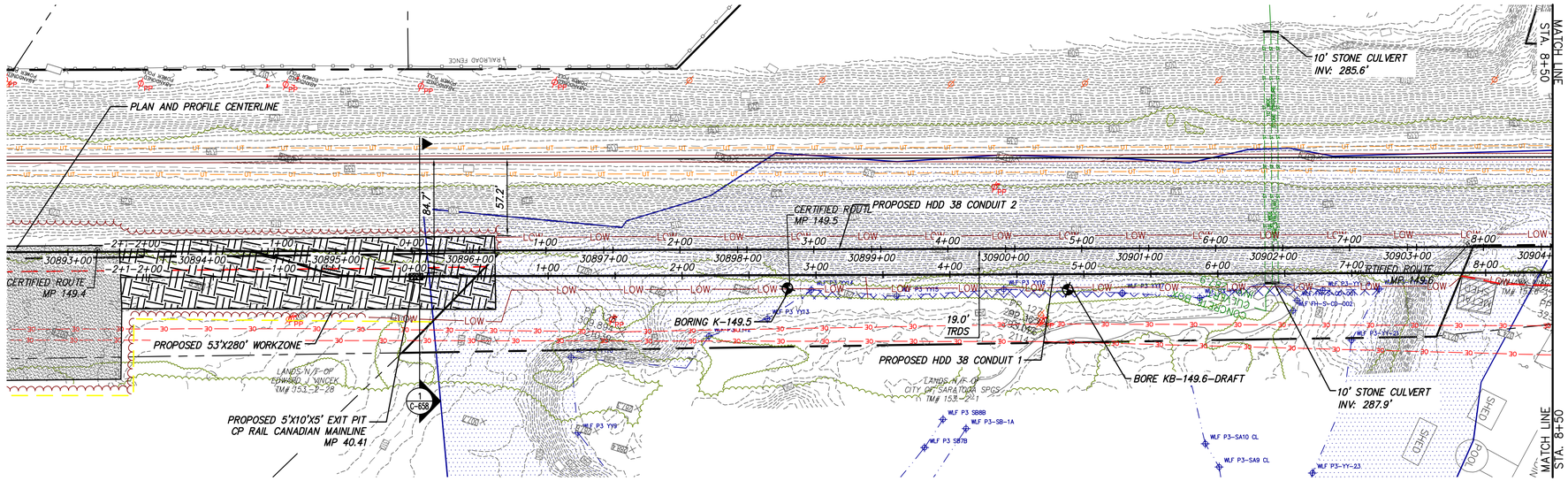
CHA PROJECT NO. 066076

DRAWING NO. **C-317A**

DATE 04/05/2023

SH.NO.

File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 3\066076_P3_C-318 - C318A.DWG Saved: 4/12/2023 10:11:52 AM Plotted: 4/12/2023 10:17:29 AM Current User: Snyder, Morgan LastSavedBy: 6043



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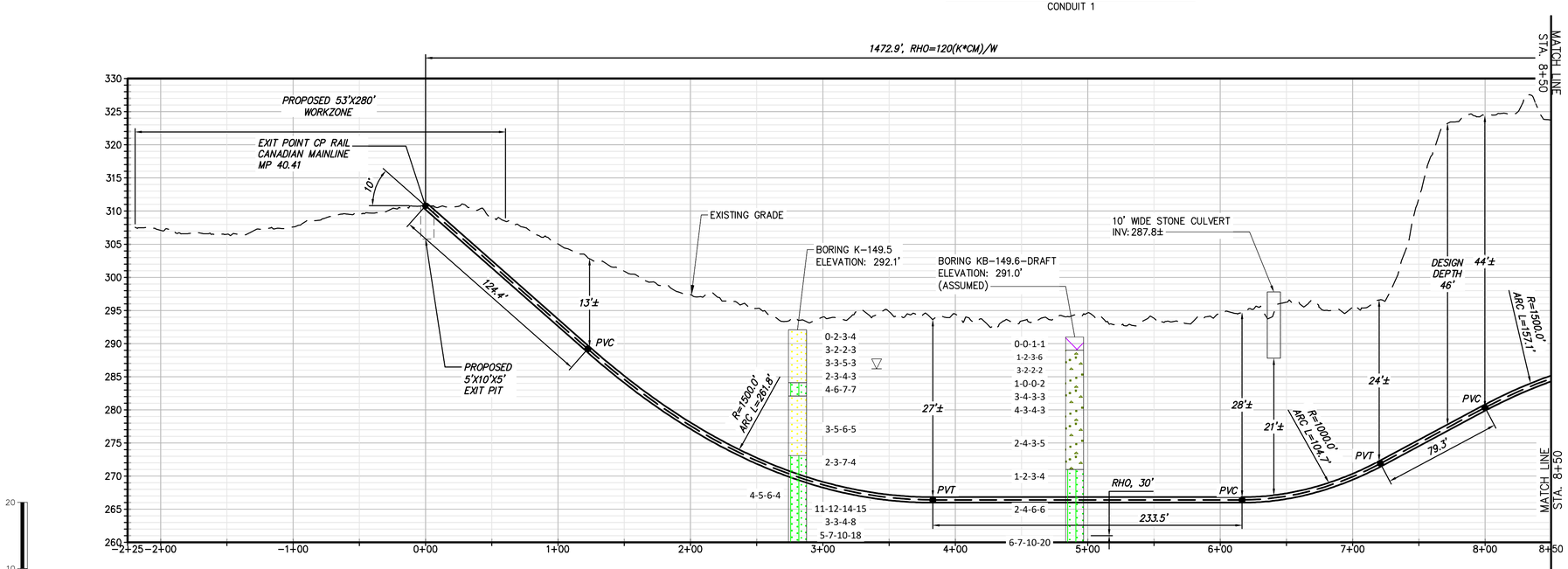
Scale in feet

PROPOSED HDD 38 PLAN VIEW

CONDUIT 1



0 50 100
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PROPOSED HDD 38 PROFILE

CONDUIT 1

NOTE:
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Bedrock	Bedrock
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CHPE Champlain Hudson Power Express

Kiewit

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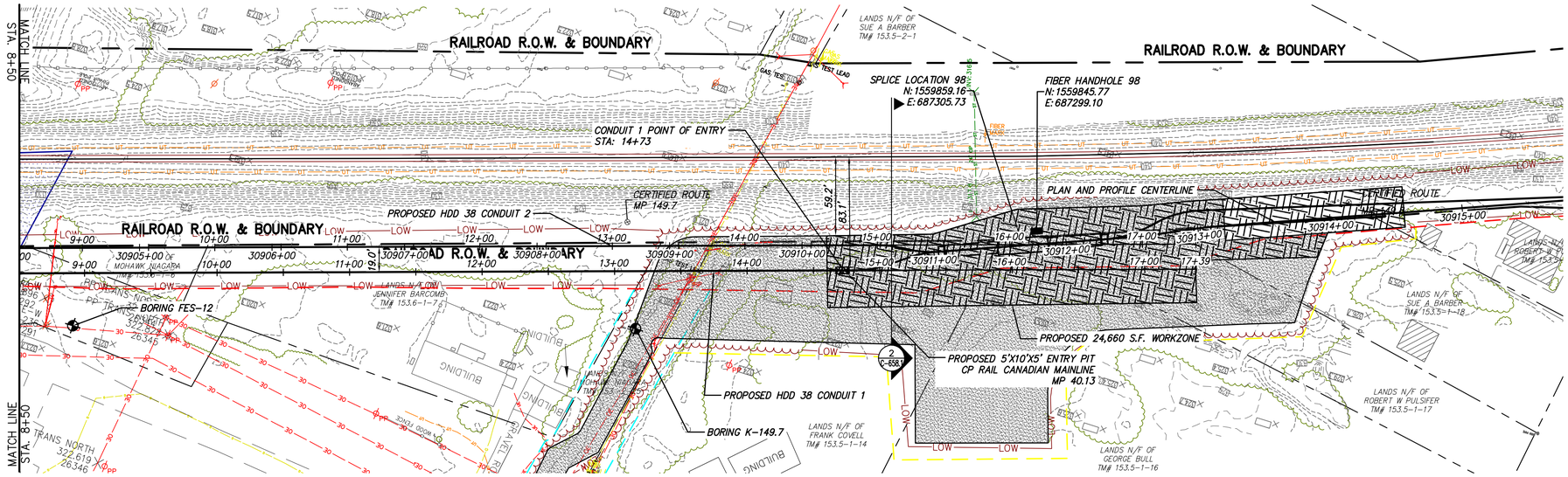
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON
PLAN AND PROFILE - HDD 38, CONDUIT 1

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-318**

DRAWN BY: CJL | DESIGNED BY: CJL | APPROVED BY: JEO | SCALE AS NOTED | DATE 04/05/2023 | REV. NO. X | SH.NO.

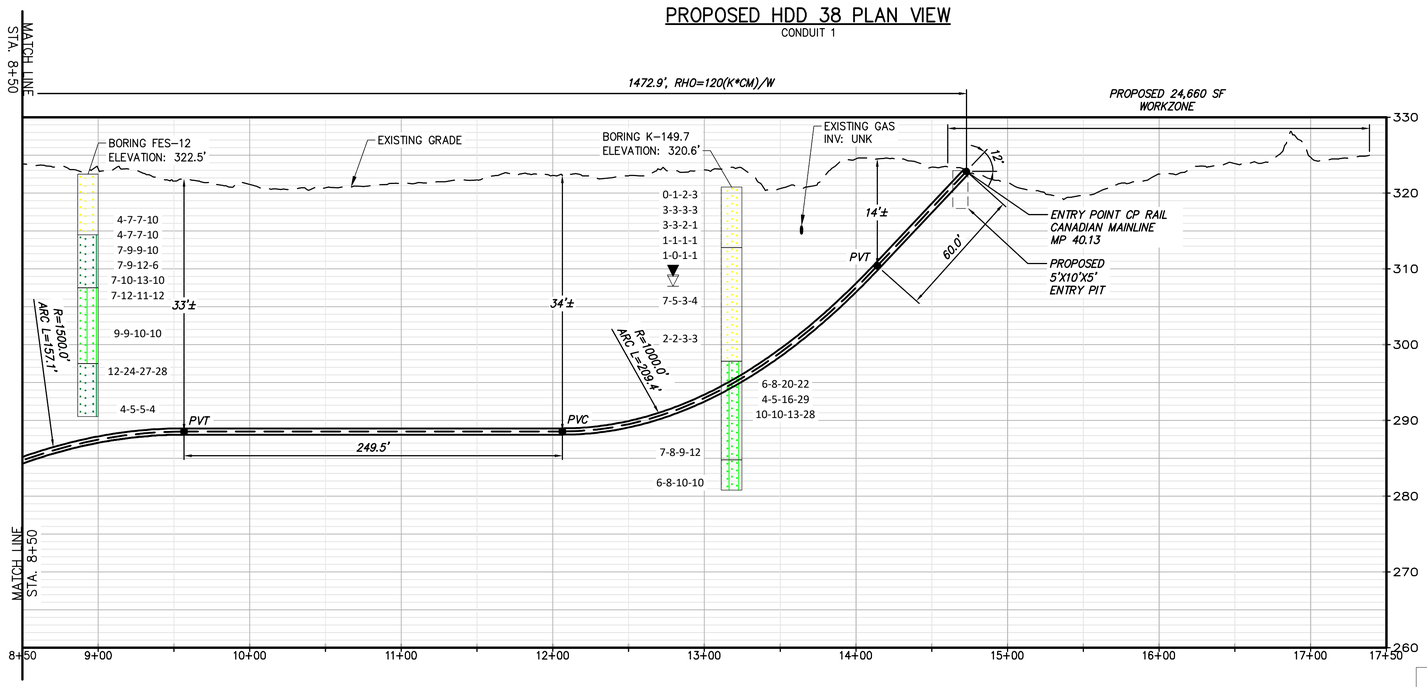
File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 3\066076_P3_C-319 - C319A (HDD38D).DWG Saved: 4/12/2023 11:00:48 AM Plotted: 4/12/2023 11:04:59 AM Current User: Snyder, Morgan LastSavedBy: 6043



0 50 100
Scale in feet

PROPOSED HDD 38 PLAN VIEW

CONDUIT 1



PROPOSED HDD 38 PROFILE

CONDUIT 1

0 50 100
Scale in feet

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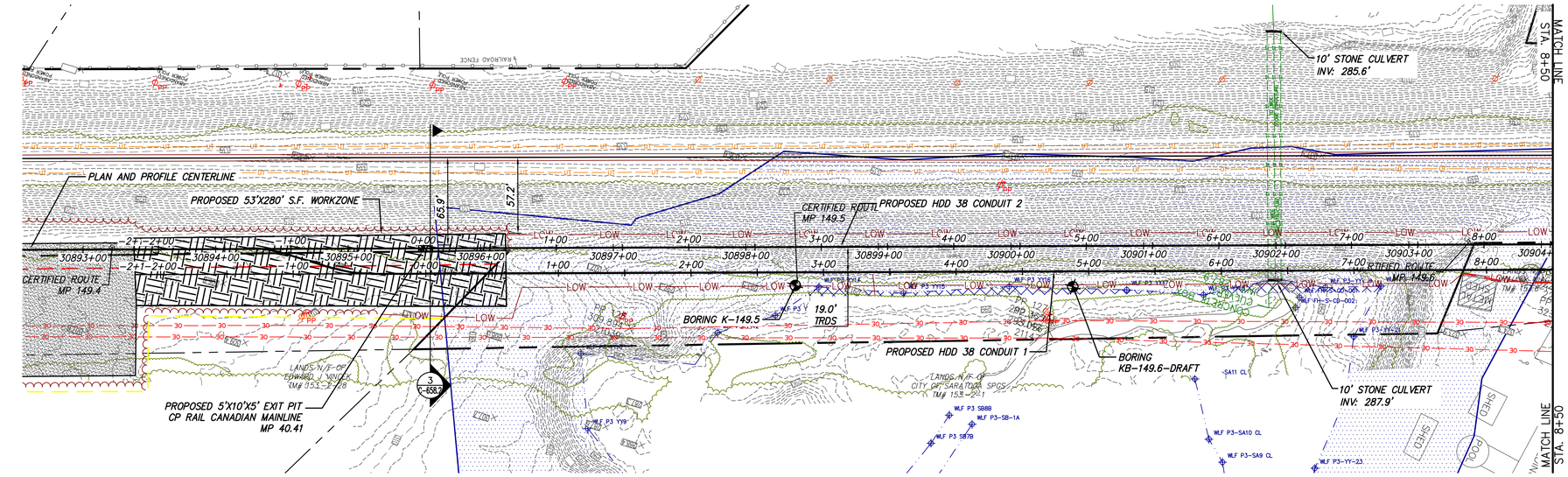
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON
PLAN AND PROFILE - HDD 38, CONDUIT 1

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-318.1**

DRAWN BY: CJL | DESIGNED BY: CJL | APPROVED BY: JEO | SCALE AS NOTED | DATE 04/05/2023 | REV. NO. X | SH.NO.

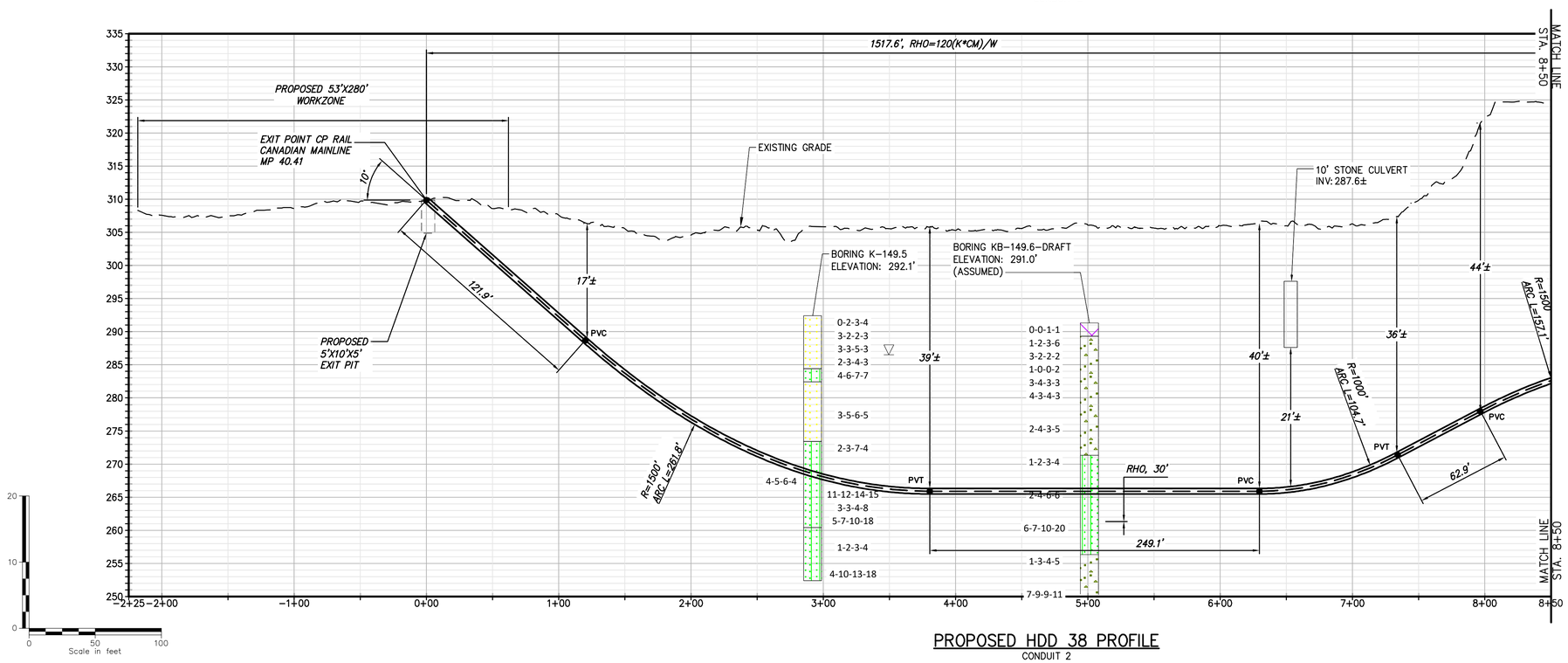
File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 3\066076_P3_C-319 - C319A (HDD38D).DWG Saved: 4/12/2023 11:00:48 AM Plotted: 4/12/2023 11:06:34 AM Current User: Snyder, Morgan LastSavedBy: 6043



0 50 100
Scale in feet

PROPOSED HDD 38 PLAN VIEW

CONDUIT 2



PROPOSED HDD 38 PROFILE

CONDUIT 2

NOTE:
1) THE USE OF CONDUCTOR CASINGS IS RECOMMENDED TO MITIGATE THE POTENTIAL RELEASE OF THE DRILLING FLUID.

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
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	Void	Void
	Water	Water
	Weathered Rock	Undefined
▼	Water Table	Water Table during drilling
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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	04/05/2023	FINAL EM&CP SUBMISSION	MCS	JEO

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON
PLAN AND PROFILE - HDD 38, CONDUIT 2

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-318A**

DRAWN BY: CJL | DESIGNED BY: CJL | APPROVED BY: JEO | SCALE AS NOTED | DATE 04/05/2023 | REV. NO. X | SH.NO.

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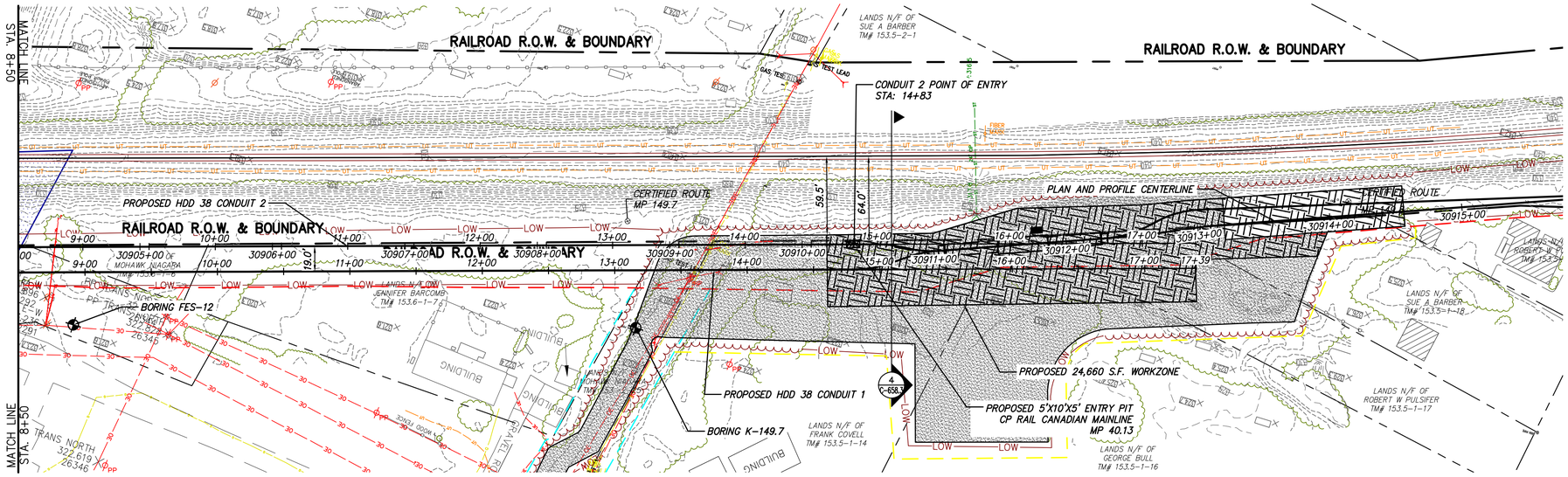
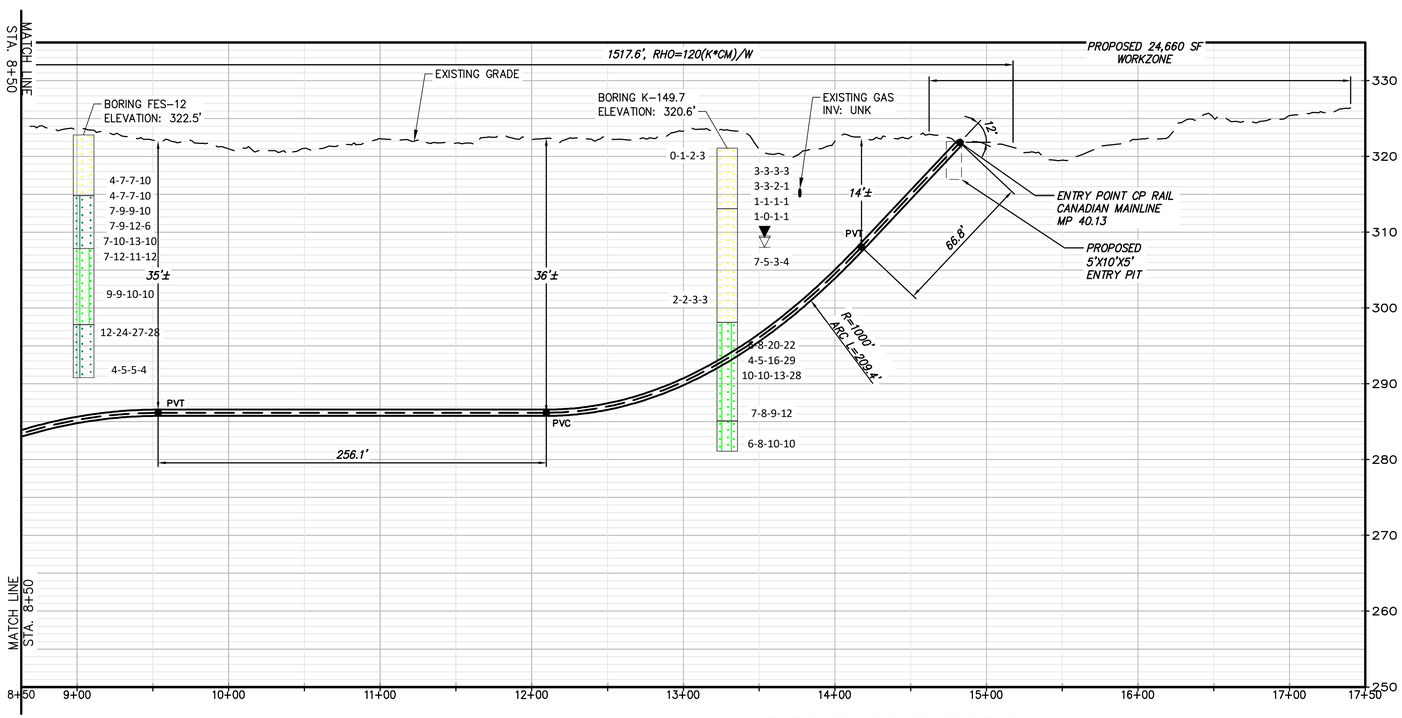


PROPOSED HDD 38 PLAN VIEW

CONDUIT 2

Scale in feet: 0 50 100



PROPOSED HDD 38 PROFILE

CONDUIT 2

Scale in feet: 0 50 100

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
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	GC-GM	SILTY CLAYEY GRAVEL
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	ML	SILT
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	OL	ORGANIC Lean CLAY
	OL/OH	ORGANIC SOIL
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	Sandstone	Sandstone
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	SC-SM	SILT, CLAYEY SAND
	SHALE	Shale
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	SM	SILTY SAND
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	SP-SM	Poorly Graded SAND with SILT
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	USGS 654	Subgraywacke
	USGS 670	Interbedded Sandstone and Shale
	USGS 702	Quartzite
	USGS 705	Schist
	USGS 705	Schist
	USGS 708	Gneiss
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	Void	Void
	Water	Water
	Weathered Rock	Undefined
▼	Water Table	Water Table during drilling
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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

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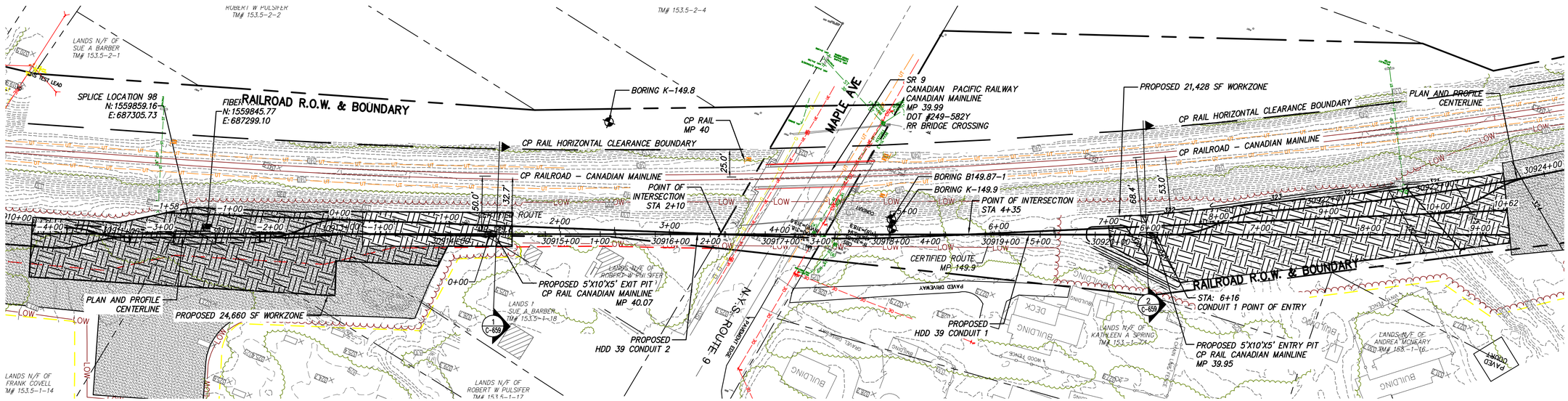
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	04/05/2023	FINAL EM&CP SUBMISSION	MCS	JEO

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON
PLAN AND PROFILE - HDD 38, CONDUIT 2

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-318A.1**

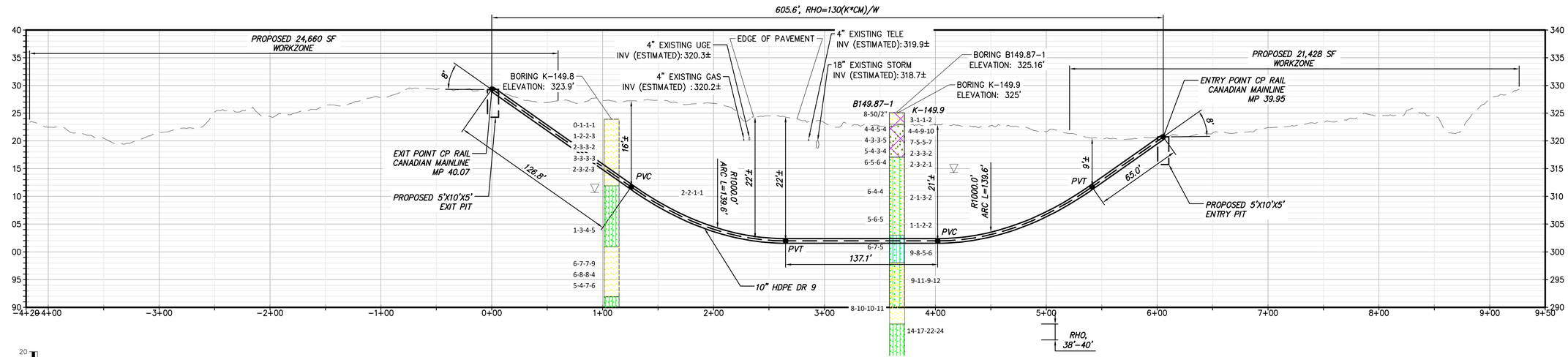
DRAWN BY: CJL DESIGNED BY: CJL APPROVED BY: JEO SCALE AS NOTED DATE 04/05/2023 REV. NO. X SH.NO.

File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 3\066076_P3_C-319 - C319A (HDD38D).DWG Saved: 4/12/2023 11:00:48 AM Plotted: 4/12/2023 11:09:18 AM Current User: Snyder, Morgan LastSavedBy: 6043



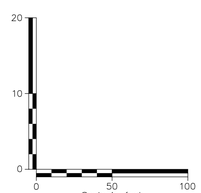
PROPOSED HDD 39 PLAN VIEW

CONDUIT 1



PROPOSED HDD 39 PROFILE

CONDUIT 1



NOTE:

1) BORE AND BORE HATCHING IN PROFILES ARE NOT CLEARLY LEGIBLE TO THE CLOSE PROXIMITY OF THE MULTIPLE BORES AT 50 SCALE. USERS MUST CONSULT THE ACTUAL BORE LOGS AND REPORTS FOR THE CLARIFICATION AND OR INTERPRETATION.
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4) DRILLER SHALL FIELD VERIFY THE WING WALL CLOSEST TO THE POINT OF INTERSECTION AND FURTHER OBSERVE A TIGHTER DRILLING TOLERANCE OF 5 FOOT LEFT AND 2.5 FOOT RIGHT TO LIMIT POTENTIAL CONTACT WITH PILINGS UNDER THE BRIDGE ABUTMENT FOOTERS.

BORING LOG STRIP LEGEND

B101

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USGS 705	Schist
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USGS 708	Gneiss
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CHAMPLAIN HUDSON POWER EXPRESS

SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON

PLAN AND PROFILE - HDD 39, CONDUIT 1

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

KIEWIT PROJECT NO. 21162

CHA PROJECT NO. 066076

DRAWING NO. C-319

DATE 04/05/2023

SH.NO.

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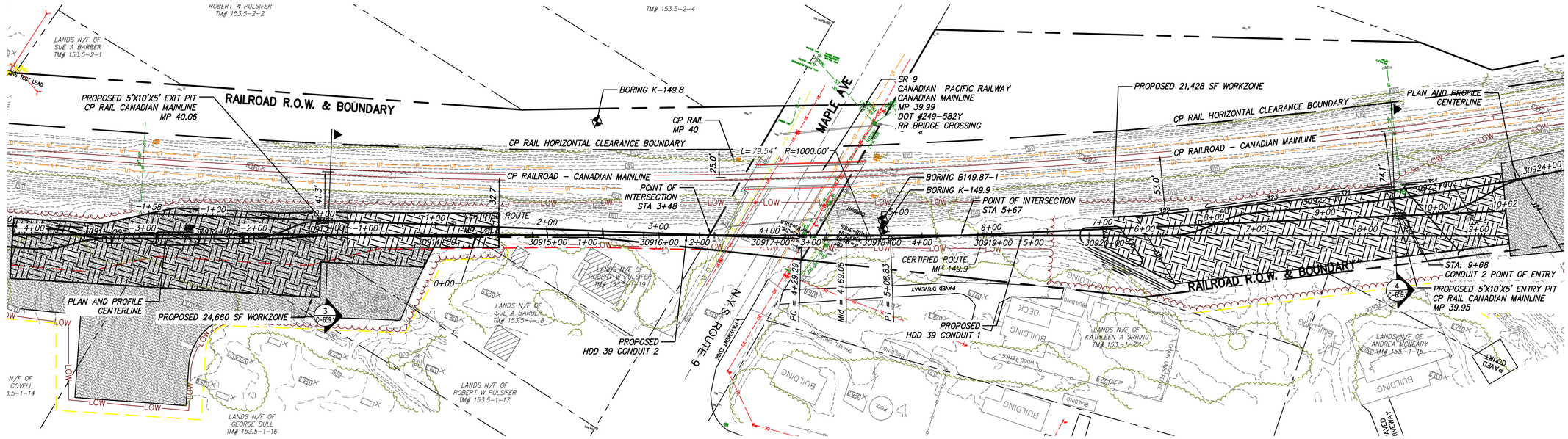
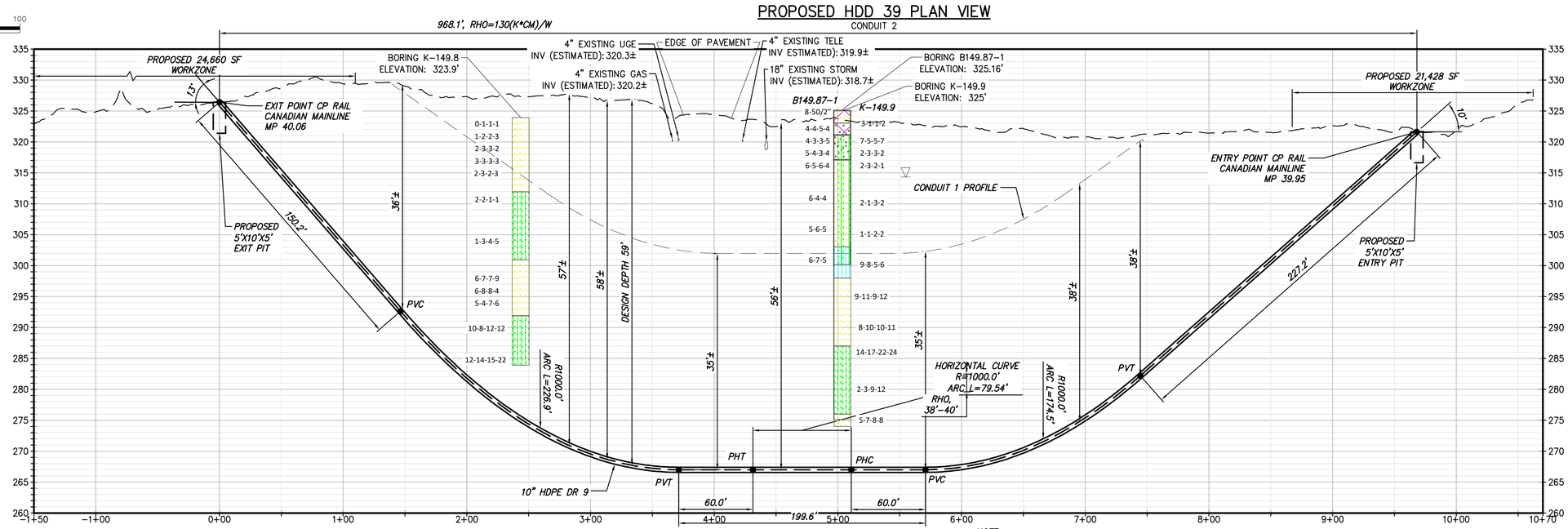
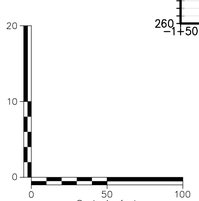


PROPOSED HDD 39 PLAN VIEW





PROPOSED HDD 39 PROFILE

CONDUIT 2

NOTE:

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON
PLAN AND PROFILE - HDD 39, CONDUIT 2

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-319A**

DRAWN BY: ES | DESIGNED BY: ES | APPROVED BY: JEO | SCALE AS NOTED | DATE 04/05/2023 | REV. NO. X | SH.NO.

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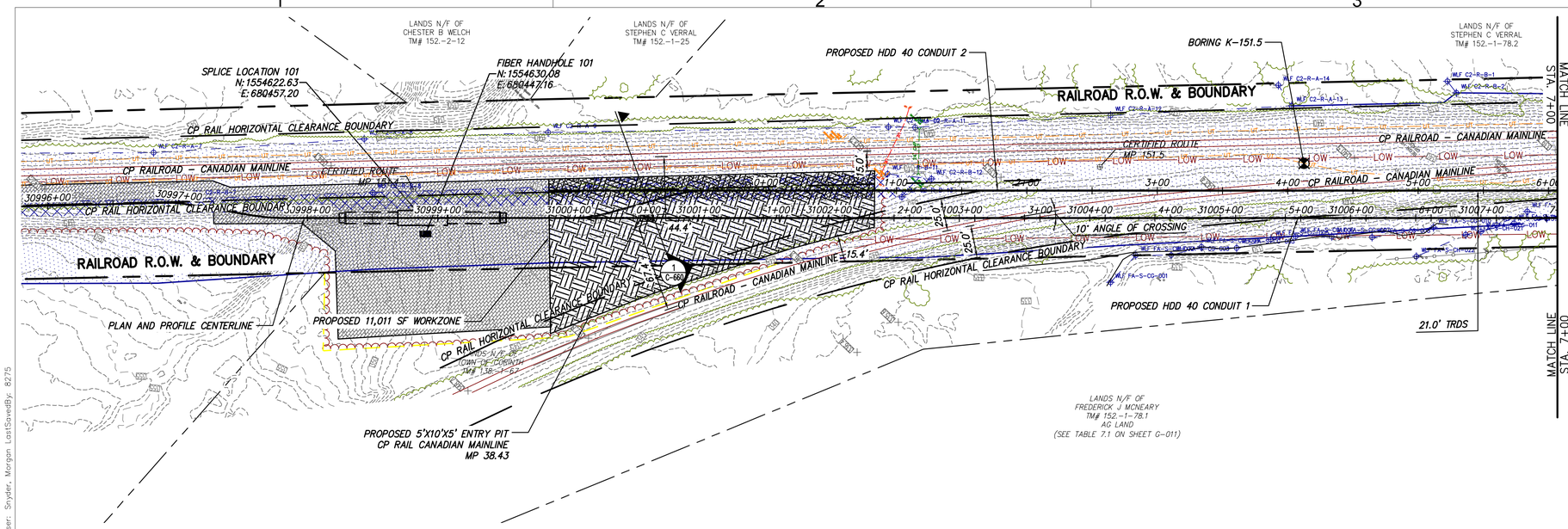
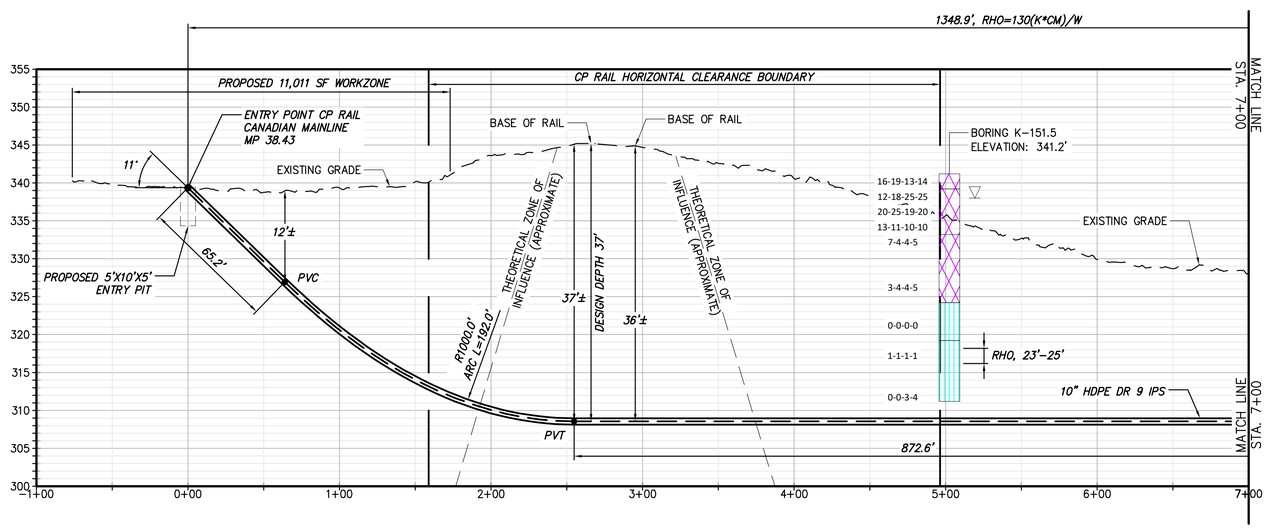


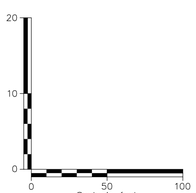
PROPOSED HDD 40 PLAN VIEW

CONDUIT 1



PROPOSED HDD 40 PROFILE

CONDUIT 1



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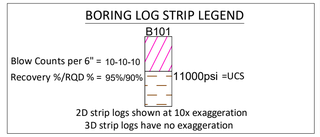
BORING LOG STRIP LEGEND



Legend

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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	04/05/2023	FINAL EM&CP SUBMISSION	MCS	JEO

CHAMPLAIN HUDSON POWER EXPRESS

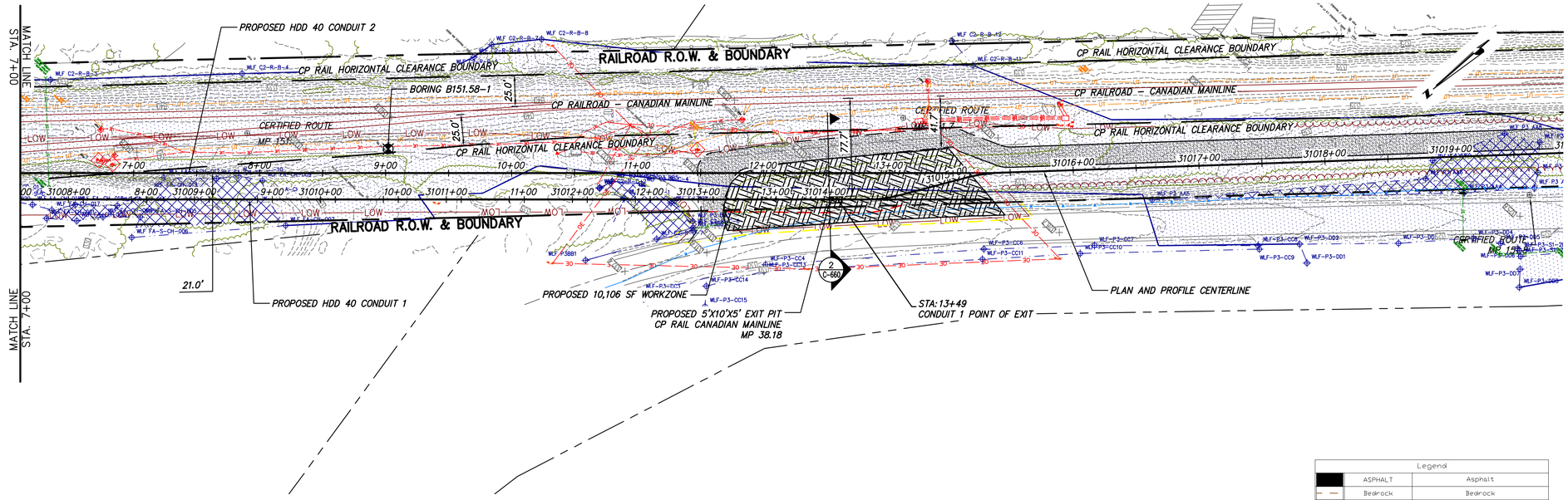
SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON

PLAN AND PROFILE - HDD 40, CONDUIT 1

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

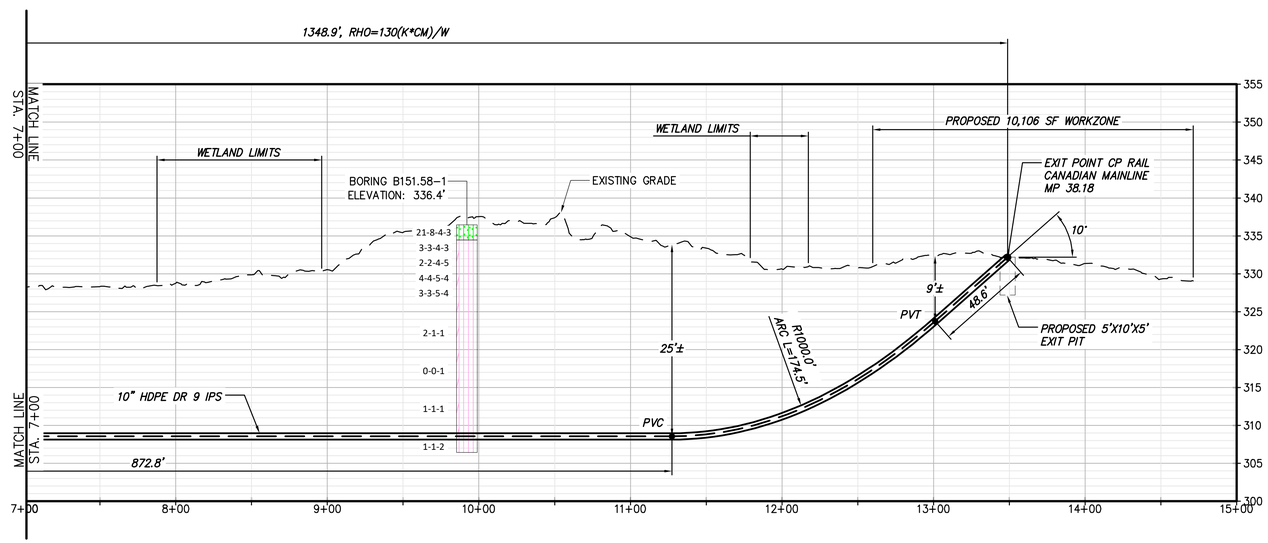
KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-320**
DATE 04/05/2023
SH.NO.

File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 3\066076_P3_C-321 C321A.DWG Saved: 4/4/2023 9:04:48 AM Plotted: 4/4/2023 4:08:15 PM Current User: Snyder, Morgan LastSavedBy: 8275



0 50 100
Scale in feet

PROPOSED HDD 40 PLAN VIEW
CONDUIT 1



PROPOSED HDD 40 PROFILE
CONDUIT 1

0 10 20
0 50 100
Scale in feet

NOTE:
1) THE USE OF CONDUCTOR CASINGS IS RECOMMENDED TO MITIGATE THE POTENTIAL RELEASE OF THE DRILLING FLUID.

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
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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
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	Void	Void
	Water	Water
	Weathered Rock	Undefined
▼	Water Table	Water Table during drilling
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CHPE Champlain Hudson Power Express

Kiewit

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON
PLAN AND PROFILE - HDD 40, CONDUIT 1

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

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-320.1**
DATE 04/05/2023
SH.NO.

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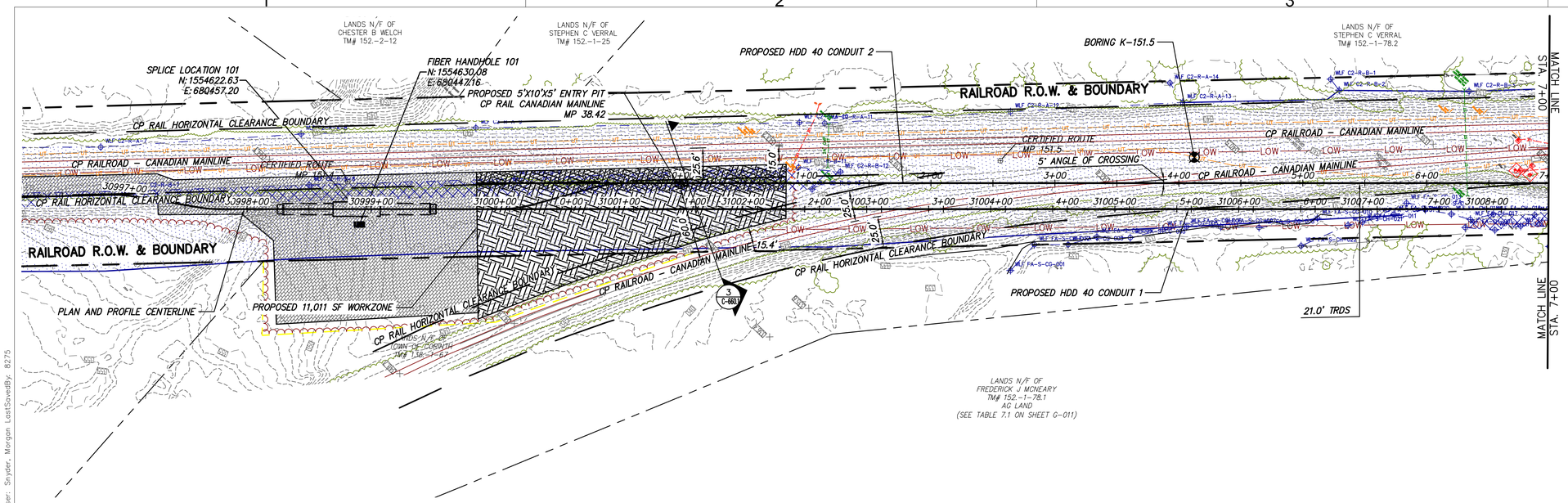
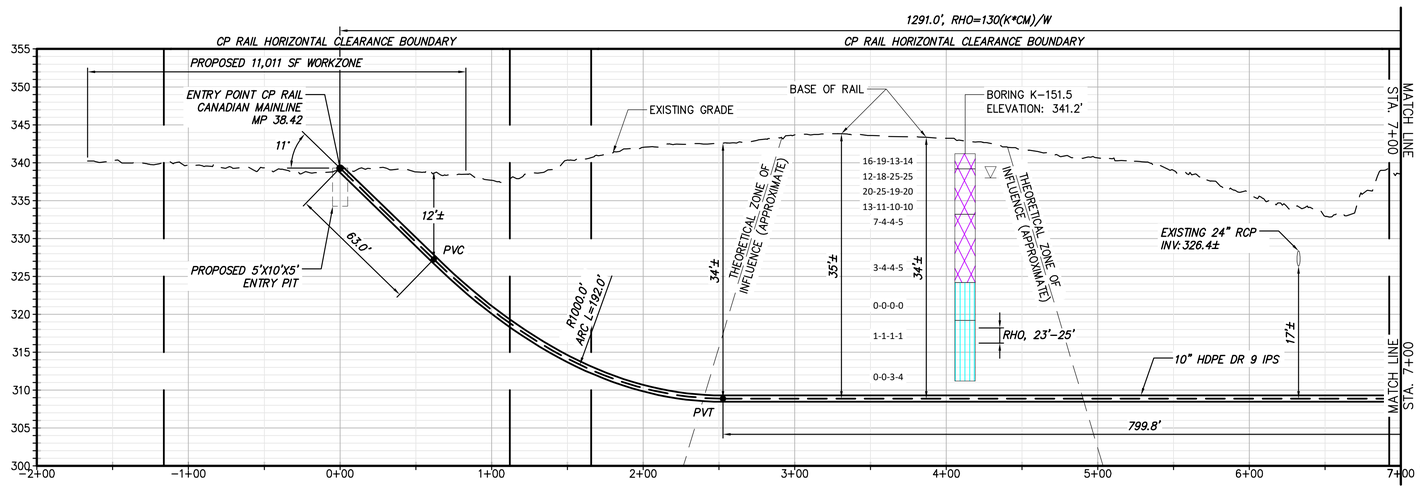


PROPOSED HDD 40 PLAN VIEW

CONDUIT 2



PROPOSED HDD 40 PROFILE

CONDUIT 2

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BORING LOG STRIP LEGEND

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CHAMPLAIN HUDSON POWER EXPRESS

SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON

PLAN AND PROFILE - HDD 40, CONDUIT 2

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

KIEWIT PROJECT NO. 21162

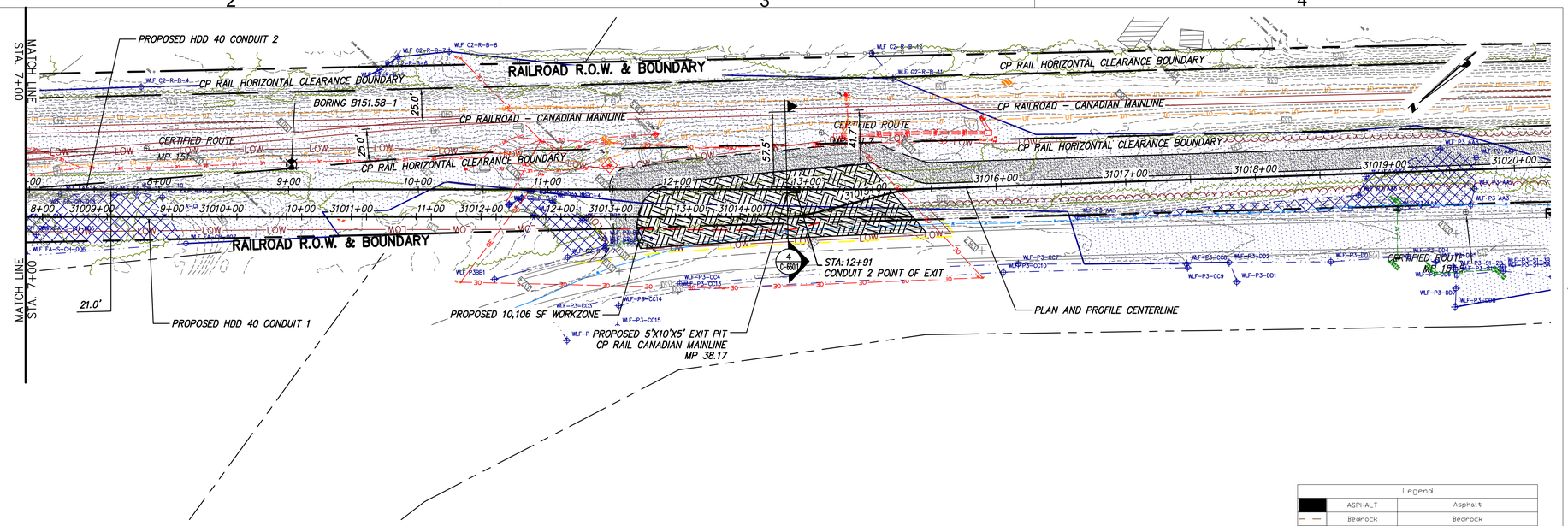
CHA PROJECT NO. 066076

DRAWING NO. **C-320A**

DATE 04/05/2023

SH.NO.

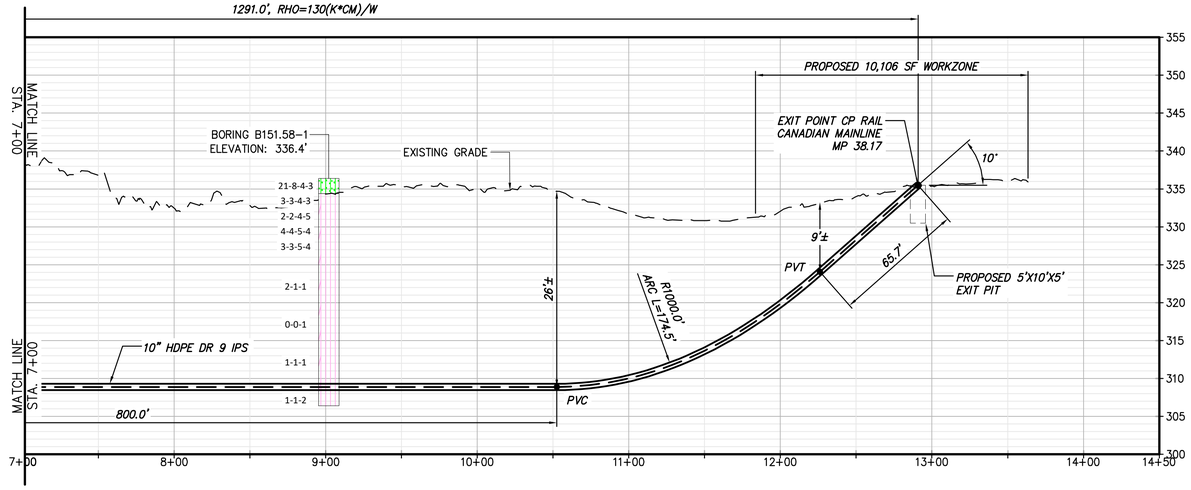
File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 3\066076_P3_C-321 C321A.DWG Saved: 4/4/2023 9:04:48 AM Plotted: 4/4/2023 4:11:07 PM Current User: Snyder, Morgan LastSavedBy: 8275



PROPOSED HDD 40 PLAN VIEW

CONDUIT 2

0 50 100
Scale in feet



PROPOSED HDD 40 PROFILE

CONDUIT 2

20 10 0
0 50 100
Scale in feet

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON
PLAN AND PROFILE - HDD 40, CONDUIT 2

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

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-320A.1**
DATE 04/05/2023
SH.NO.

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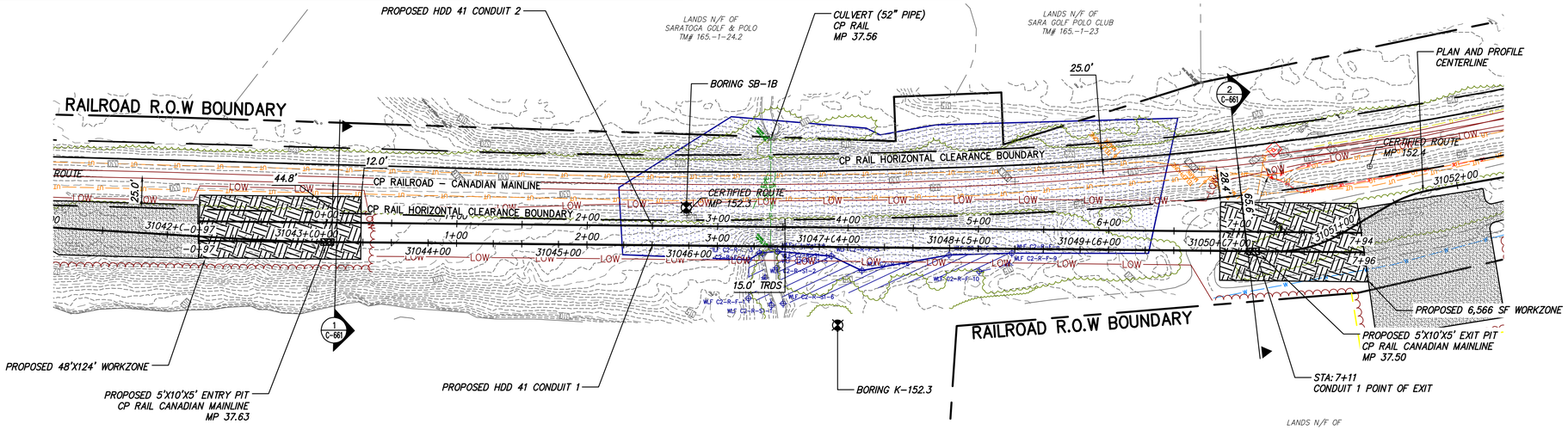
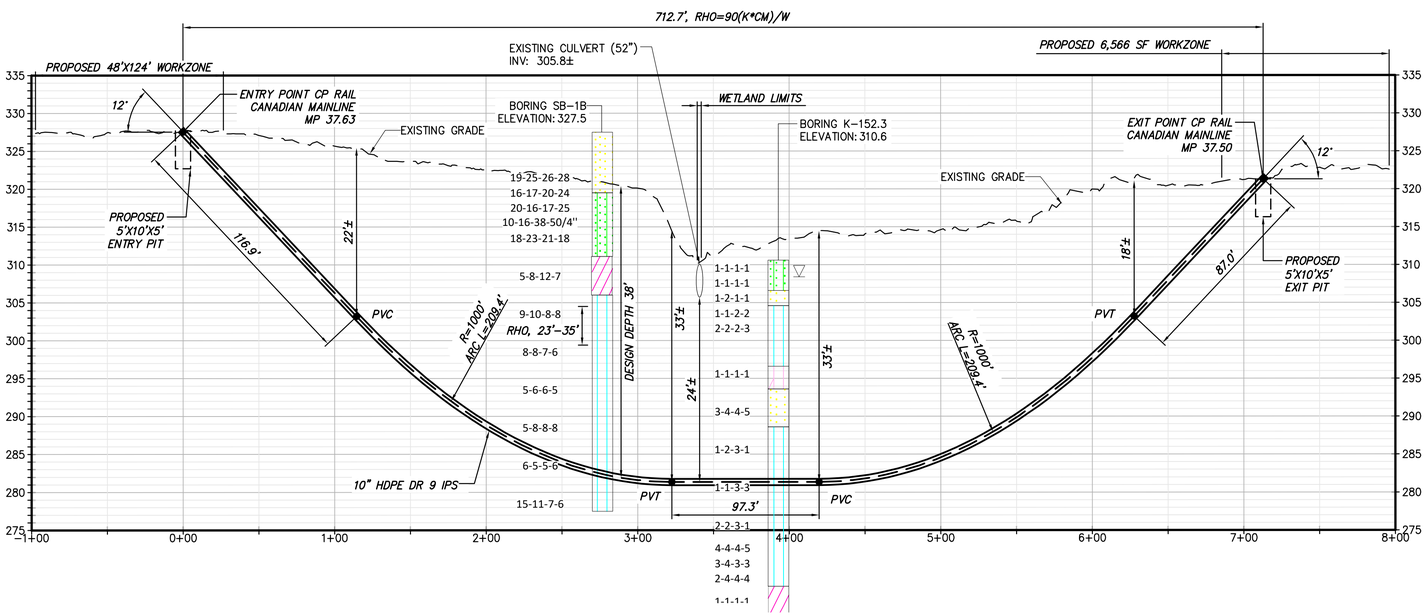


0 50 100
Scale in feet

PROPOSED HDD 41 PLAN VIEW

CONDUIT 1



20
10
0
0 50 100
Scale in feet

PROPOSED HDD 41 PROFILE

CONDUIT 1

BORING LOG STRIP LEGEND

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON
PLAN AND PROFILE - HDD 41, CONDUIT 1

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 068076
DRAWING NO. **C-321**

DRAWN BY: JDL | DESIGNED BY: JDL | APPROVED BY: JEO | SCALE AS NOTED | REV. NO. X | DATE 04/05/2023 | SH.NO.

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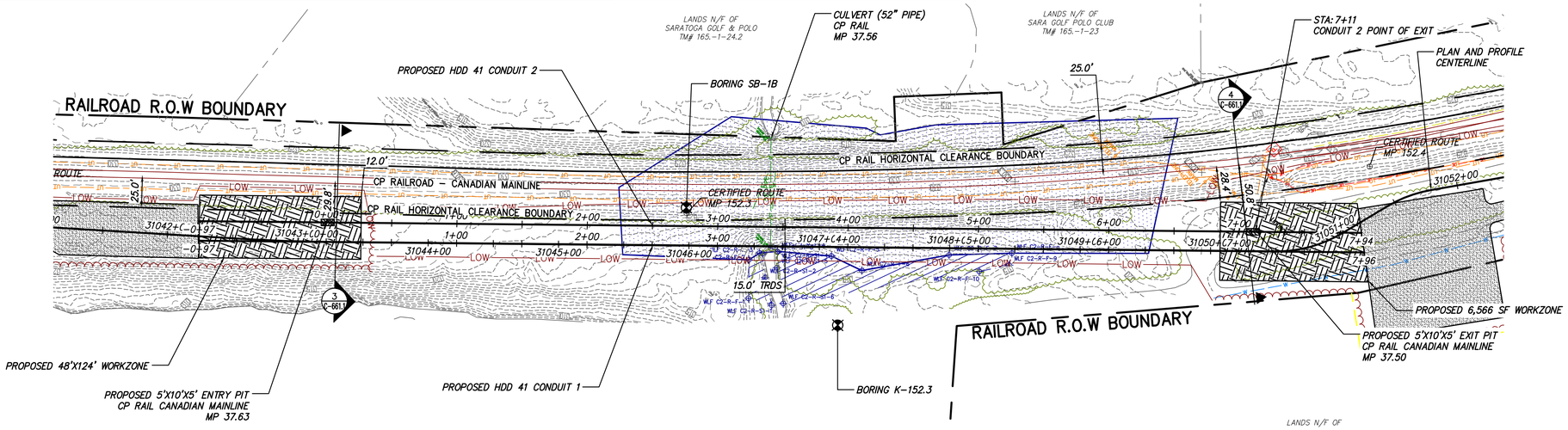
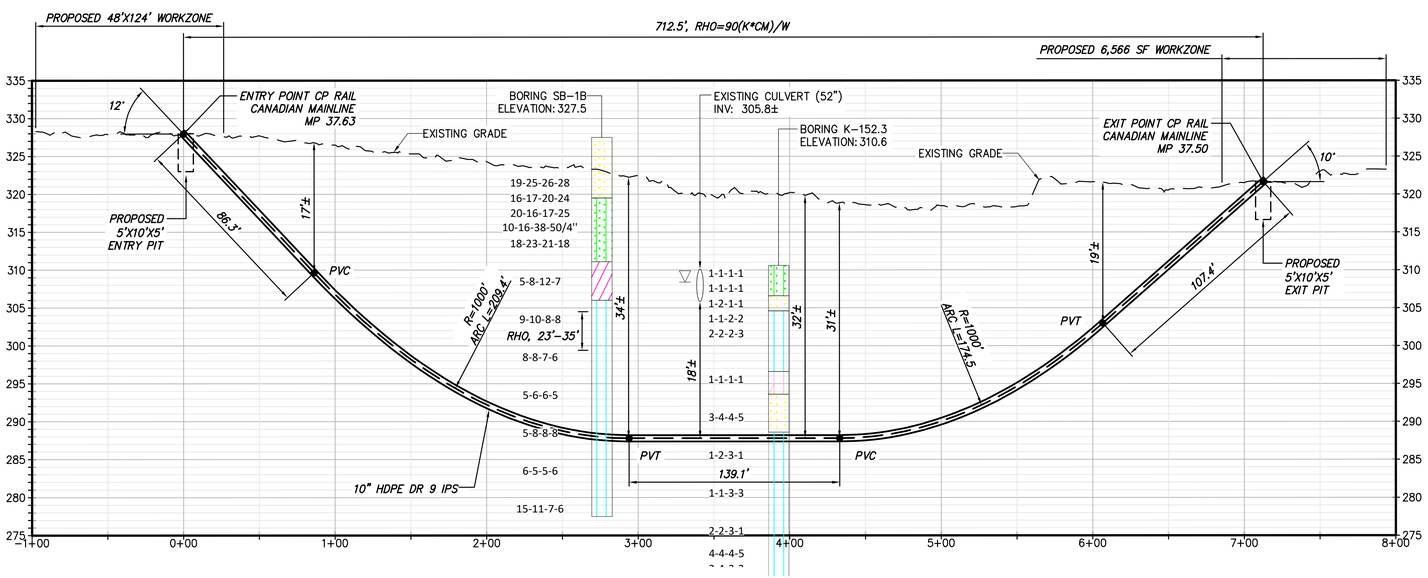


PROPOSED HDD 41 PLAN VIEW

CONDUIT 2

0 50 100
Scale in feet



PROPOSED HDD 41 PROFILE

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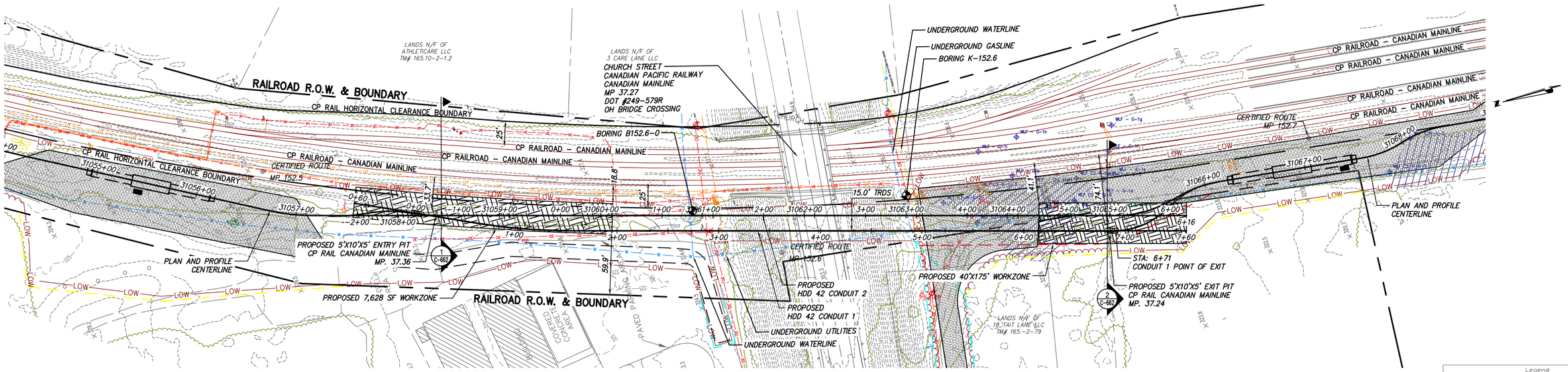
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON
PLAN AND PROFILE - HDD 41, CONDUIT 2

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-321A**

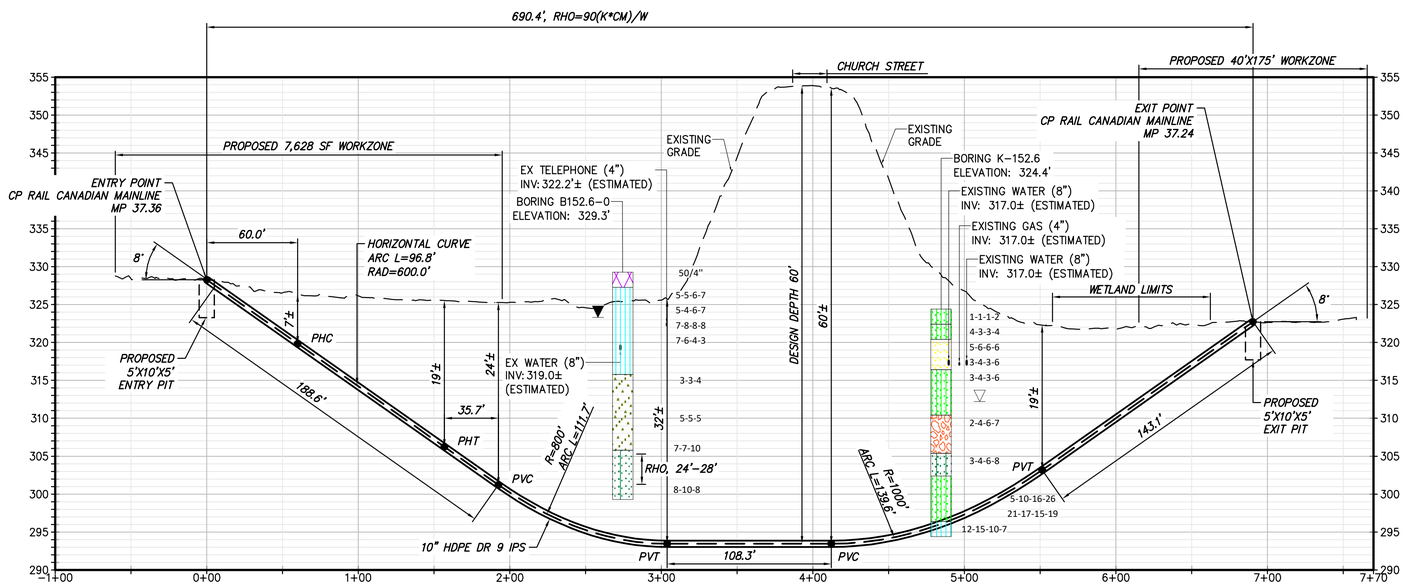
DRAWN BY: JDL DESIGNED BY: JDL APPROVED BY: JEO SCALE AS NOTED DATE 04/05/2023 REV. NO. X SH.NO.

File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 3\066076_P3_C-322-C-322A.DWG Saved: 4/3/2023 1:29:15 PM Plotted: 4/4/2023 4:15:04 PM Current User: Snyder, Morgan LastSavedBy: 8275



0 50 100
Scale in feet

PROPOSED HDD 42 PLAN VIEW
CONDUIT 1



PROPOSED HDD 42 PROFILE
CONDUIT 1

0 50 100
Scale in feet

20 10 0

NOTE:
1) THE USE OF CONDUCTOR CASINGS IS RECOMMENDED TO MITIGATE THE POTENTIAL RELEASE OF THE DRILLING FLUIDS.

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
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	Void	Void
	Water	Water
	Weathered Rock	Undefined
▼	Water Table	Water Table during drilling
▽	Delayed Water Table	Water Table after drilling

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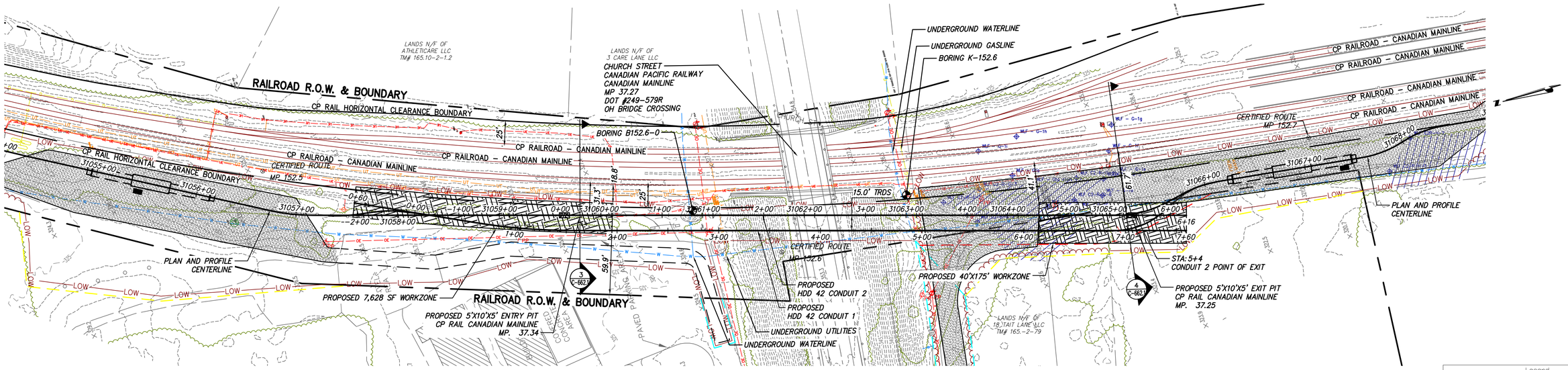
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	04/05/2023	FINAL EM&CP SUBMISSION	MCS	JEO

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON
PLAN AND PROFILE - HDD 42, CONDUIT 1

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-322**

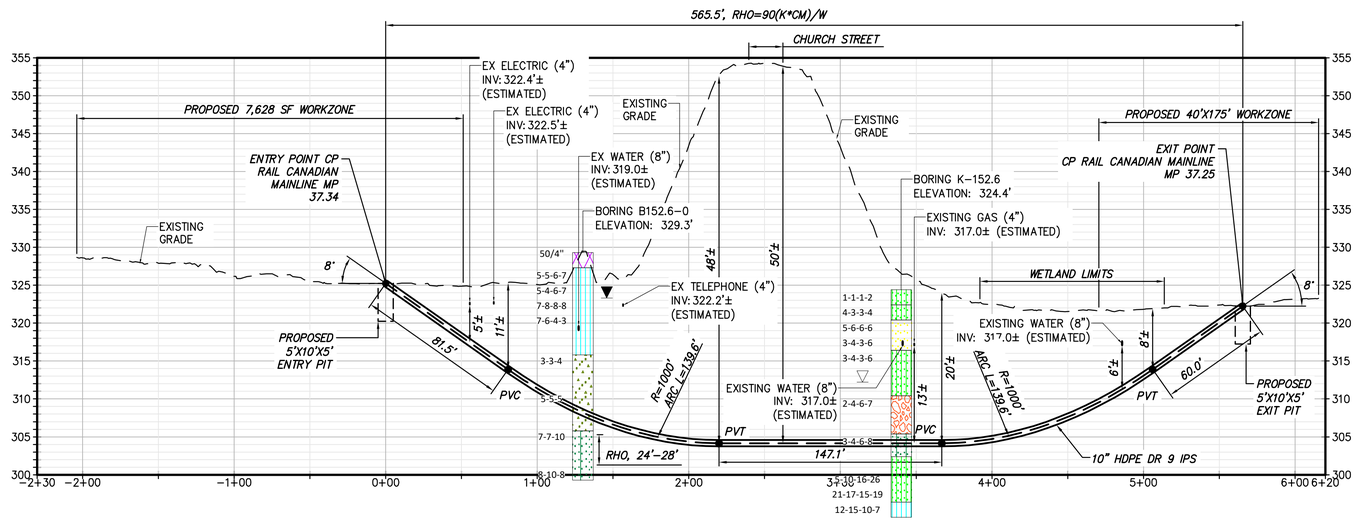
DRAWN BY: CJL | DESIGNED BY: CJL | APPROVED BY: XXX | SCALE AS NOTED | REV. NO. X | DATE 04/05/2023 | SH.NO.

File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 3\066076_P3_C-323 - C-323A.DWG Saved: 4/3/2023 12:53:57 PM Plotted: 4/4/2023 4:18:19 PM Current User: Snyder, Morgan LastSavedBy: 8275



0 50 100
Scale in feet

PROPOSED HDD 42 PLAN VIEW
CONDUIT 2



0 10 20
0 50 100
Scale in feet

PROPOSED HDD 42 PROFILE
CONDUIT 2

NOTE:
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	Bedrock	Bedrock
	Boulder	Boulder
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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON
PLAN AND PROFILE - HDD 42, CONDUIT 2

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-322A**

DRAWN BY: CJL | DESIGNED BY: CJL | APPROVED BY: XXX | SCALE AS NOTED | REV. NO. X | DATE 04/05/2023 | SH.NO.

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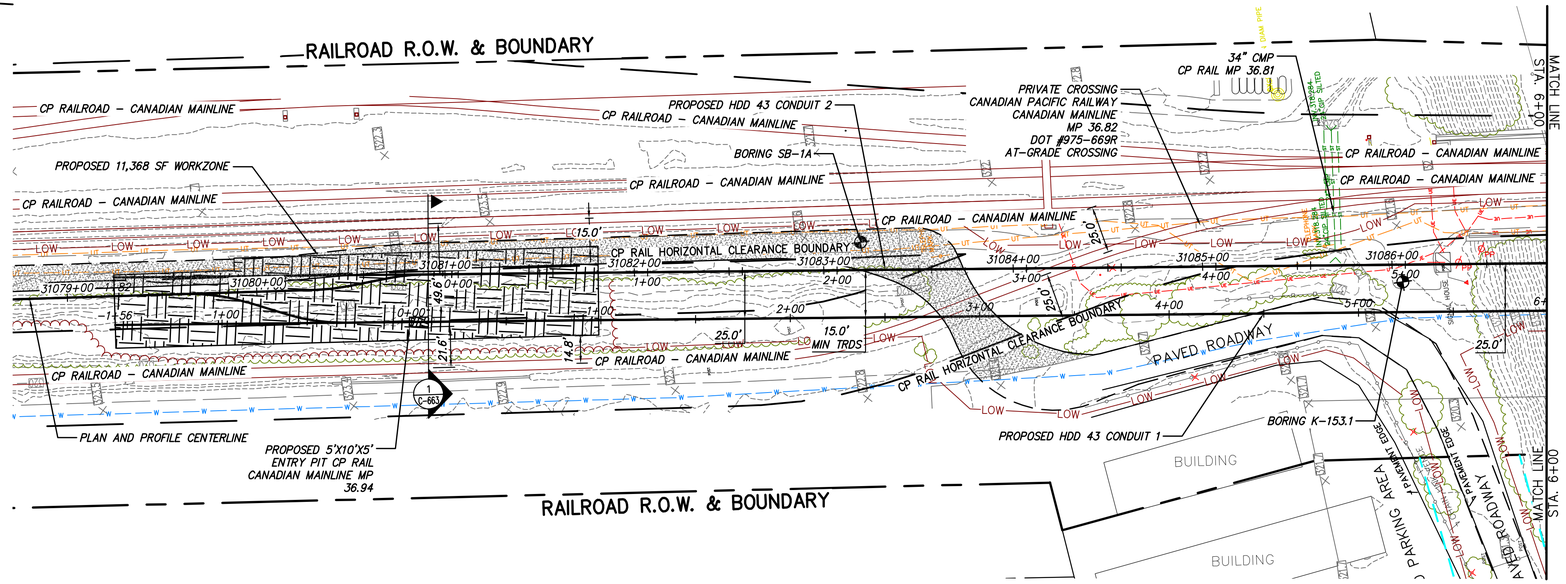
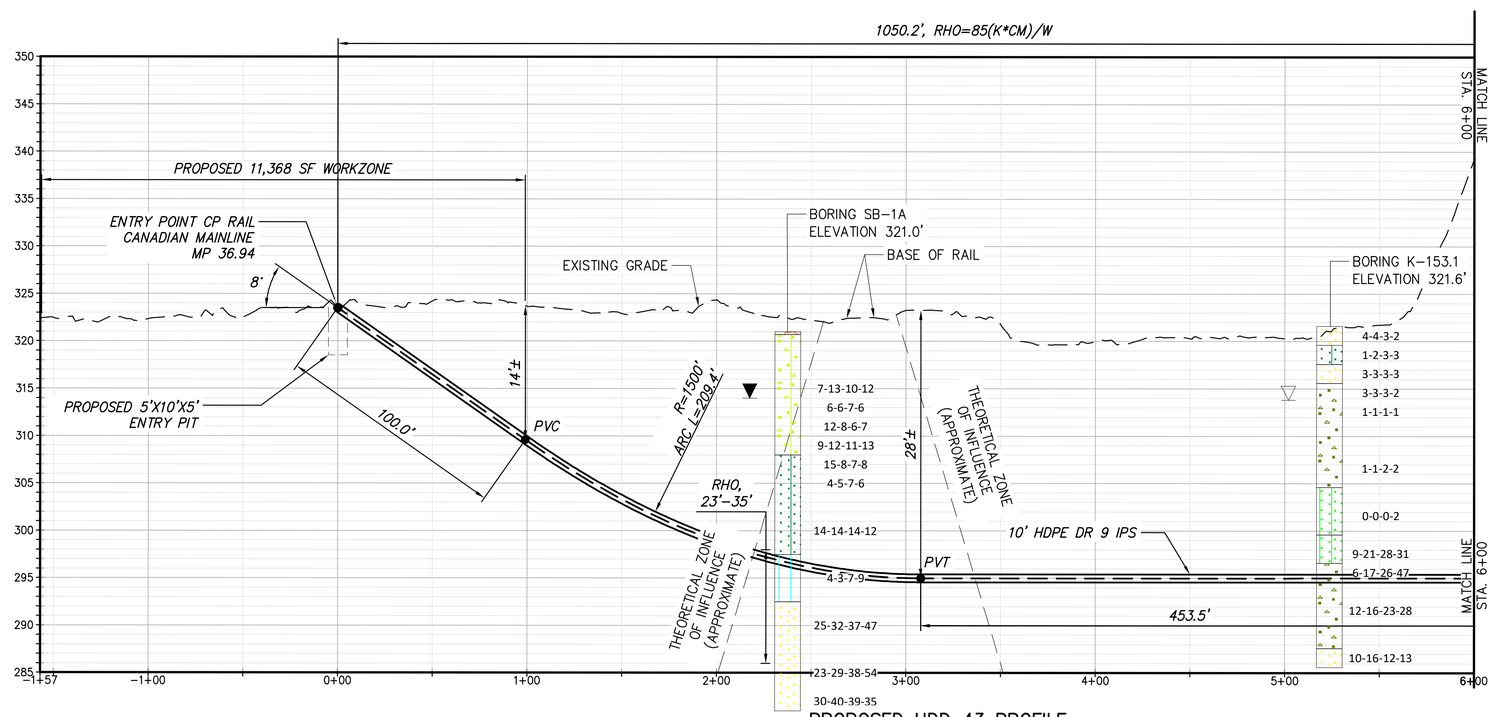


0 50 100
Scale in feet

PROPOSED HDD 43 PLAN VIEW

CONDUIT 1



PROPOSED HDD 43 PROFILE

CONDUIT 1

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

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CHAMPLAIN HUDSON POWER EXPRESS

SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON

PLAN AND PROFILE - HDD 43, CONDUIT 1

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

KIEWIT PROJECT NO. 21162

CHA PROJECT NO. 066076

DRAWING NO. **C-323**

DATE 04/05/2023

SH.NO.

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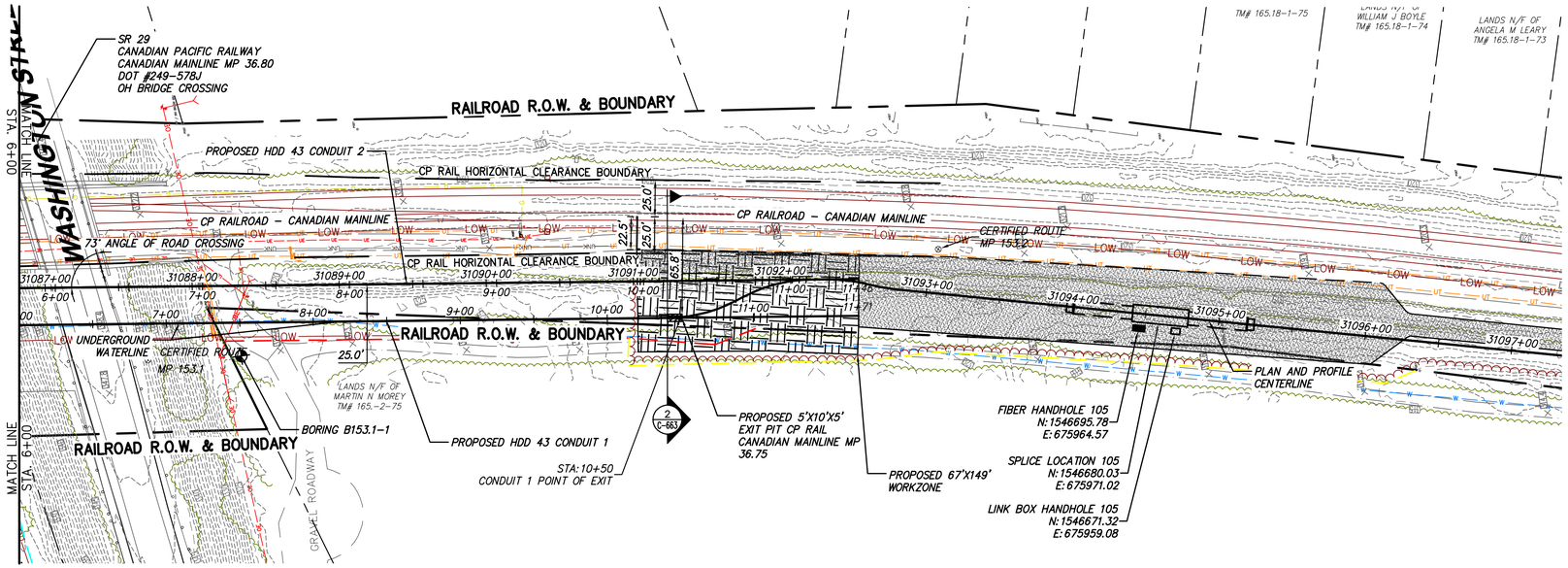
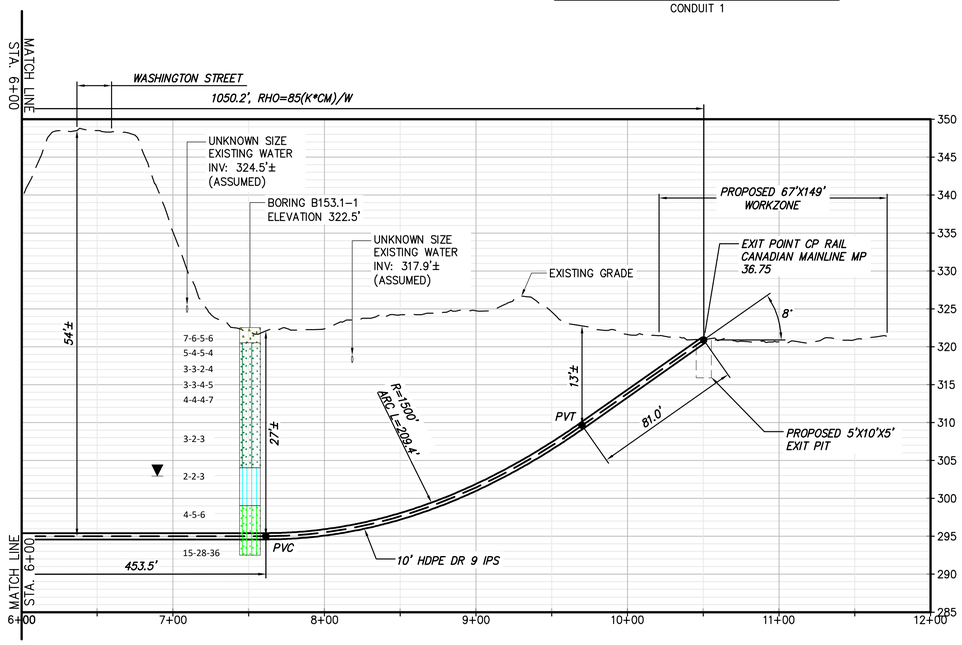


PROPOSED HDD 43 PLAN VIEW

CONDUIT 1

0 50 100
Scale in feet



PROPOSED HDD 43 PROFILE

CONDUIT 1

20
10
0
0 50 100
Scale in feet

BORING LOG STRIP LEGEND

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Water Table	Water Table during drilling
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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON
PLAN AND PROFILE - HDD 43, CONDUIT 1

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

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-323.1**
DATE 04/05/2023
SH.NO.

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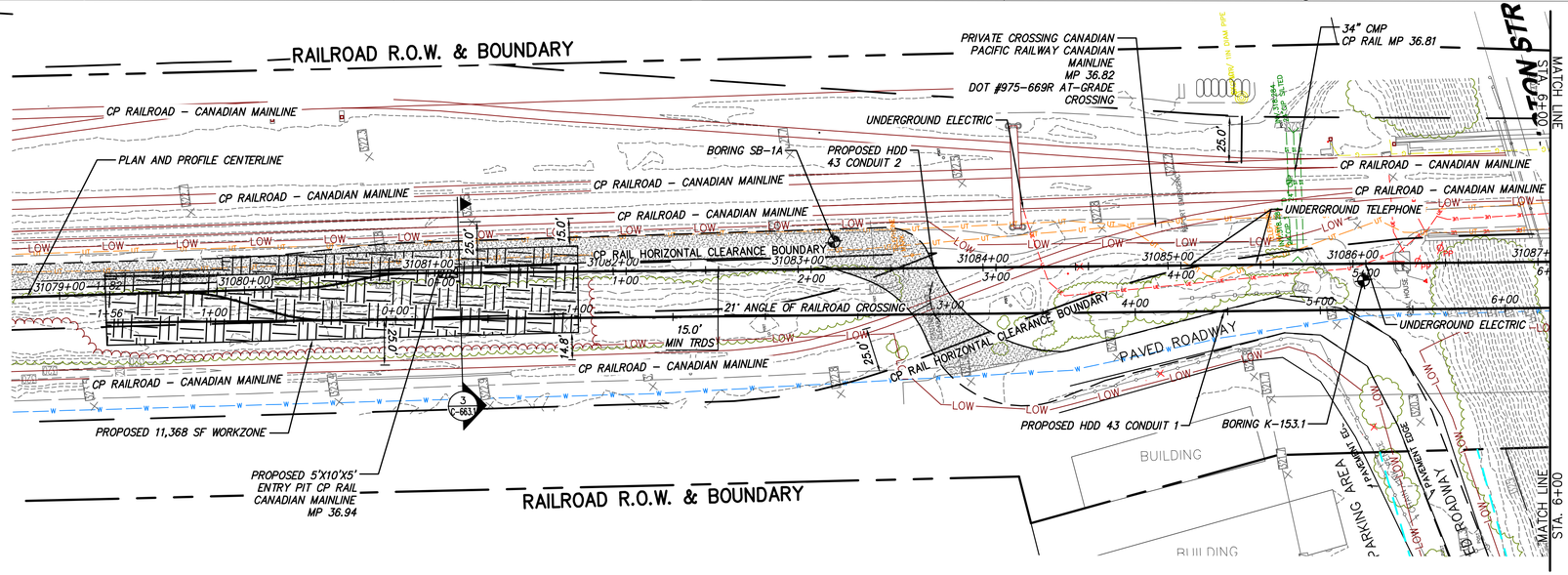
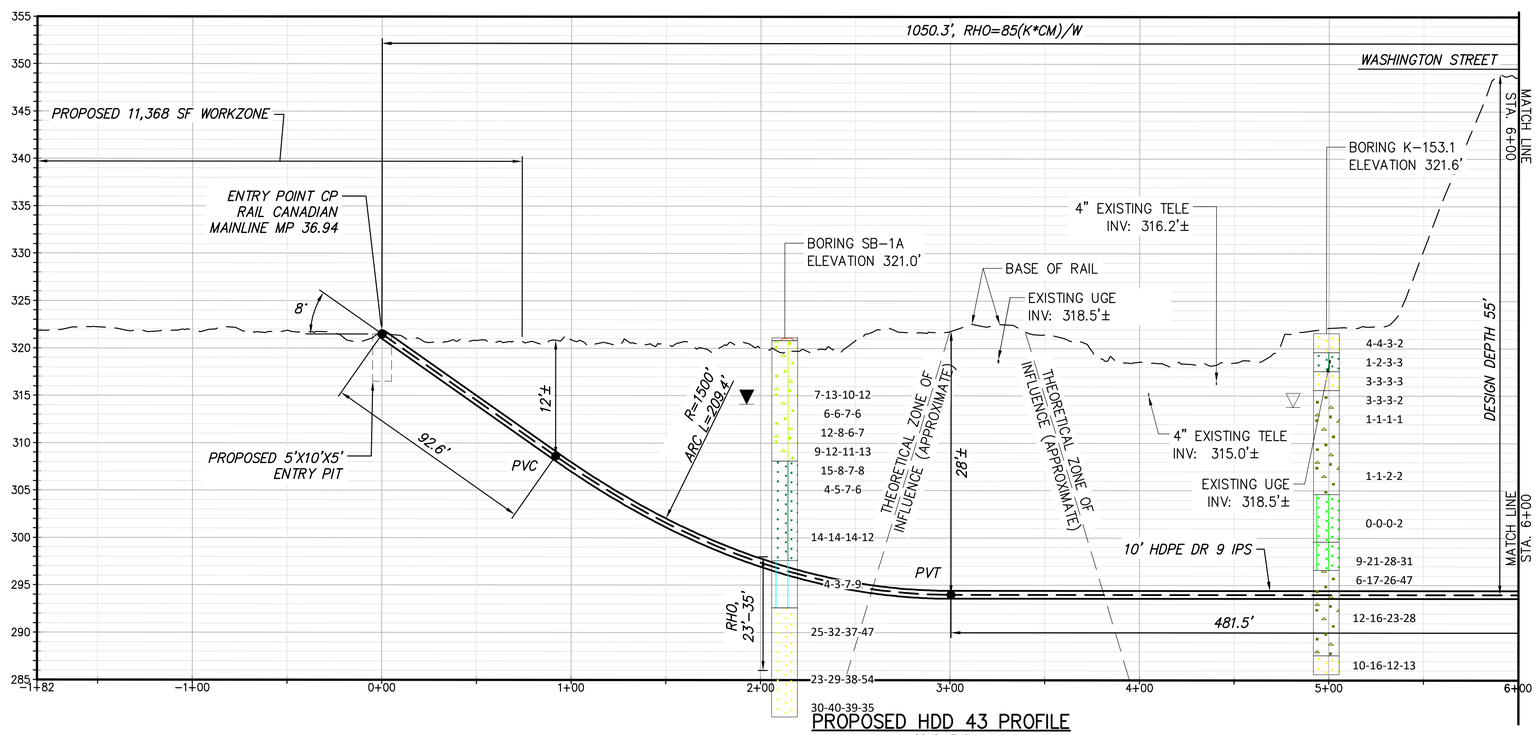


Scale in feet

PROPOSED HDD 43 PLAN VIEW

CONDUIT 2



Scale in feet

PROPOSED HDD 43 PROFILE

CONDUIT 2

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CHAMPLAIN HUDSON POWER EXPRESS

SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON

PLAN AND PROFILE - HDD 43, CONDUIT 2

DRAWN BY: JAS | DESIGNED BY: JAS | APPROVED BY: JEO | SCALE AS NOTED | REV. NO. X | DATE 04/05/2023 | SH.NO.

KIEWIT PROJECT NO. 21162

CHA PROJECT NO. 066076

DRAWING NO. **C-323A**

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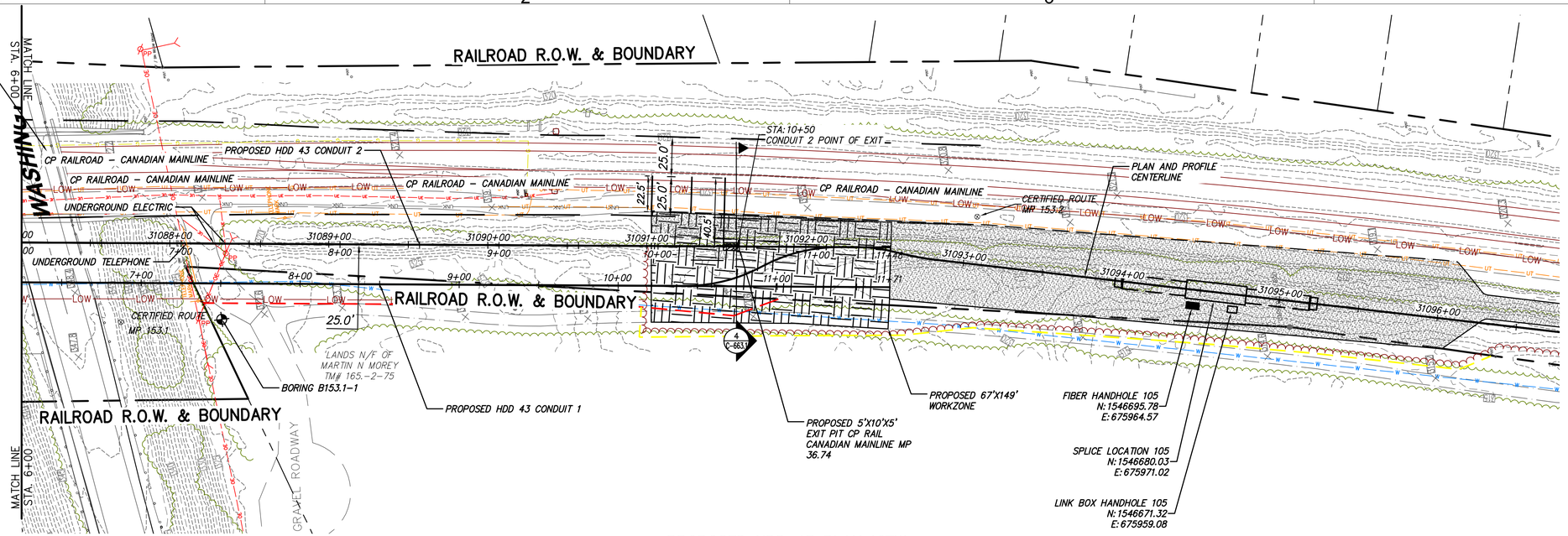
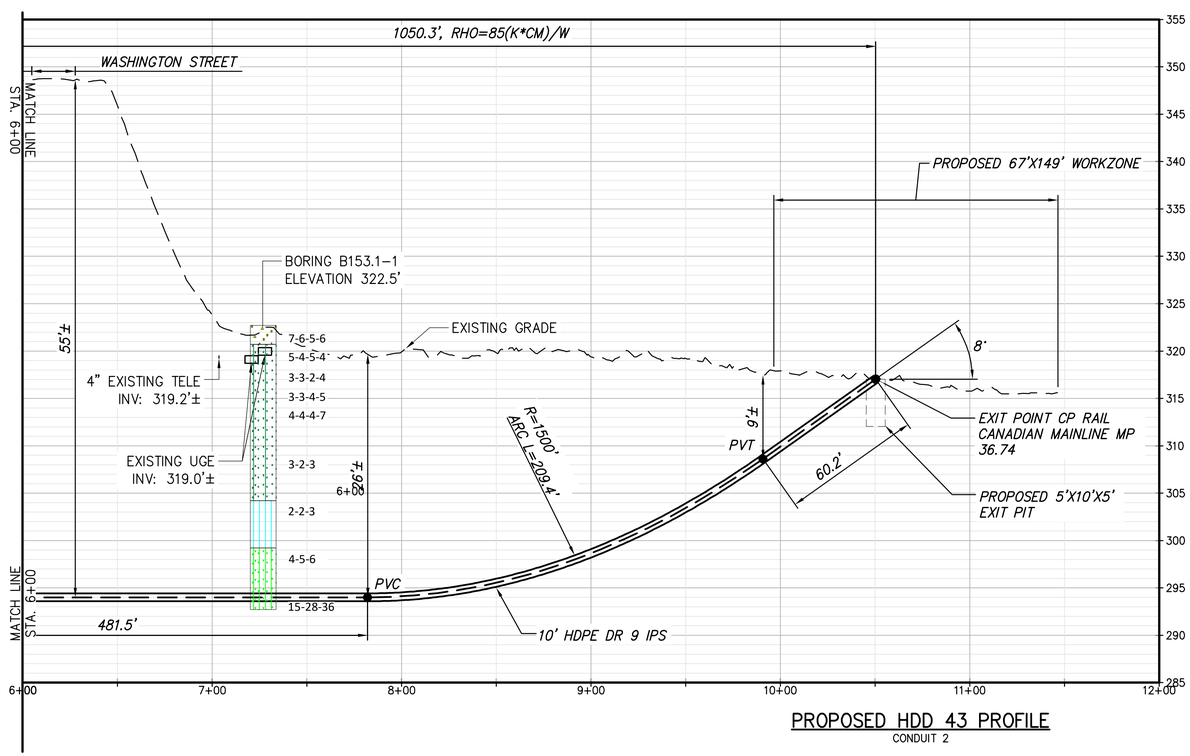


PROPOSED HDD 43 PLAN VIEW

CONDUIT 2



PROPOSED HDD 43 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

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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	04/05/2023	FINAL EM&CP SUBMISSION	MCS	JEO

CHAMPLAIN HUDSON POWER EXPRESS

SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON

PLAN AND PROFILE - HDD 43, CONDUIT 2

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

KIEWIT PROJECT NO. 21162

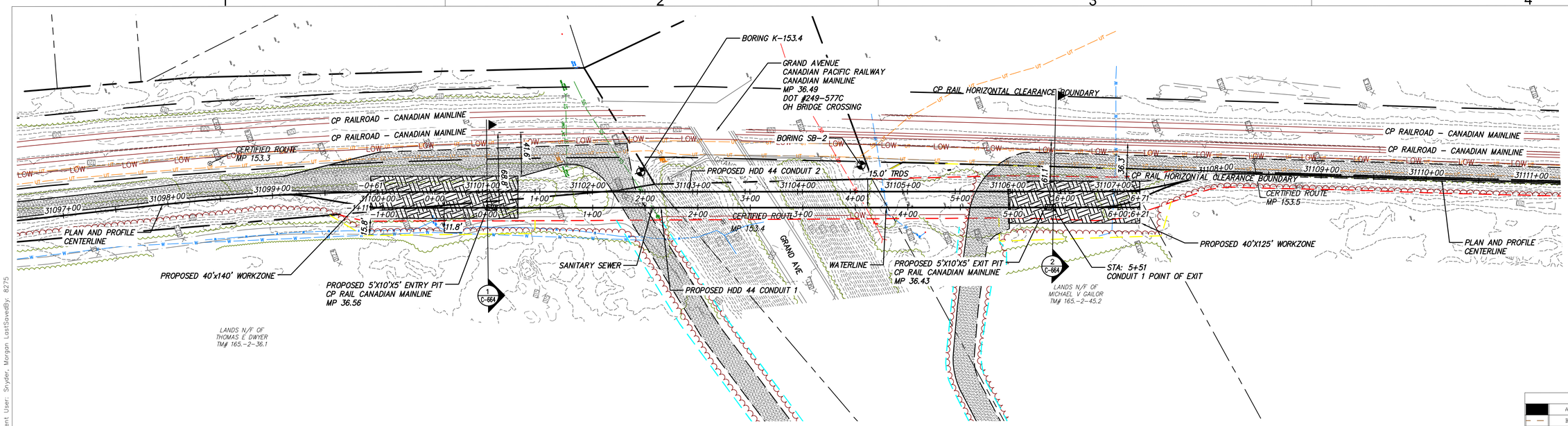
CHA PROJECT NO. 066076

DRAWING NO. C-323A.1

DATE 04/05/2023

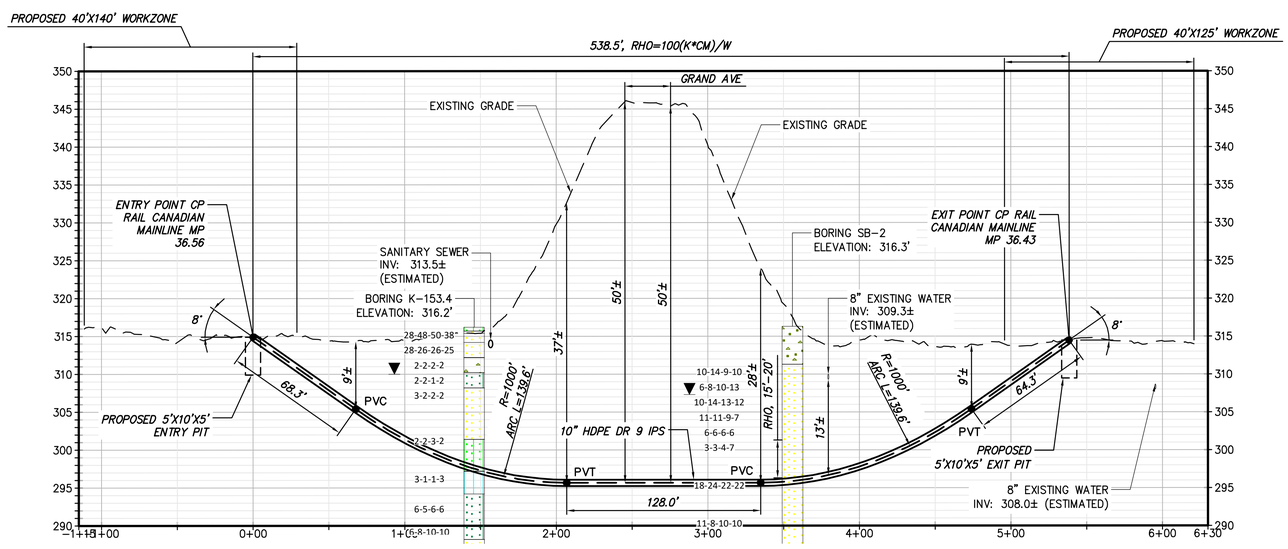
SH.NO.

File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 3\066076_P3_C-324-C-324A (LONGER).DWG Saved: 4/4/2023 9:04:40 AM Plotted: 4/4/2023 4:26:33 PM Current User: Snyder, Morgan LastSavedBy: 8275



PROPOSED HDD 44 PLAN VIEW

CONDUIT 1



PROPOSED HDD 44 PROFILE

CONDUIT 1

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
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	GC-GM	SILTY CLAYEY GRAVEL
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	ML	SILT
	OH	ORGANIC Fat CLAY
	OL	ORGANIC Lean CLAY
	OL/OH	ORGANIC SOIL
	PT	PEAT
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▼	Water Table	Water Table during drilling
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CHAMPLAIN HUDSON POWER EXPRESS

SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON

PLAN AND PROFILE - HDD 44, CONDUIT 1

KIEWIT PROJECT NO. 21162

CHA PROJECT NO. 066076

DRAWING NO. **C-324**

DRAWN BY: CJL | DESIGNED BY: CJL | APPROVED BY: JEO | SCALE AS NOTED | REV. NO. X | DATE 04/05/2023 | SH.NO.

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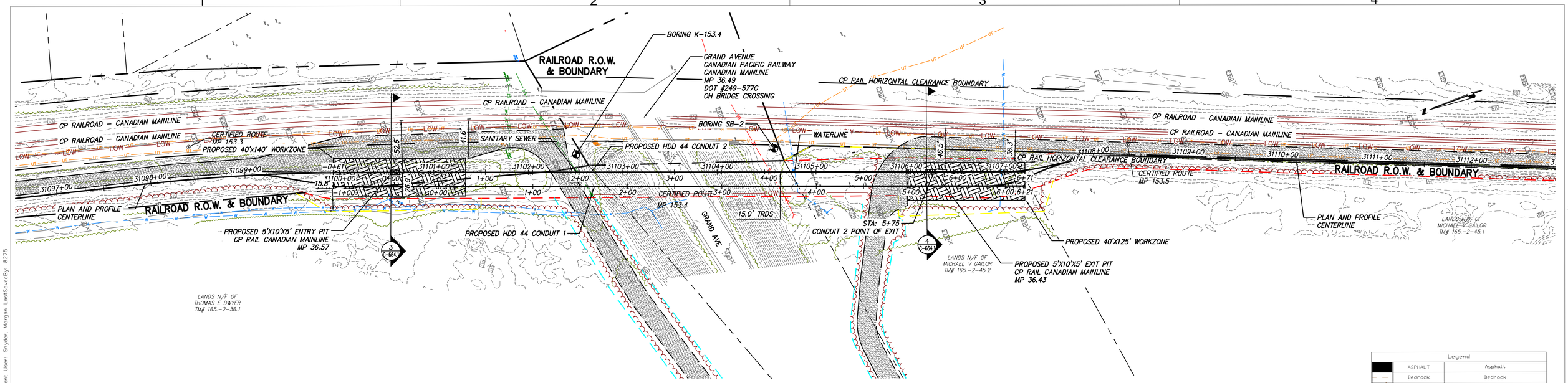
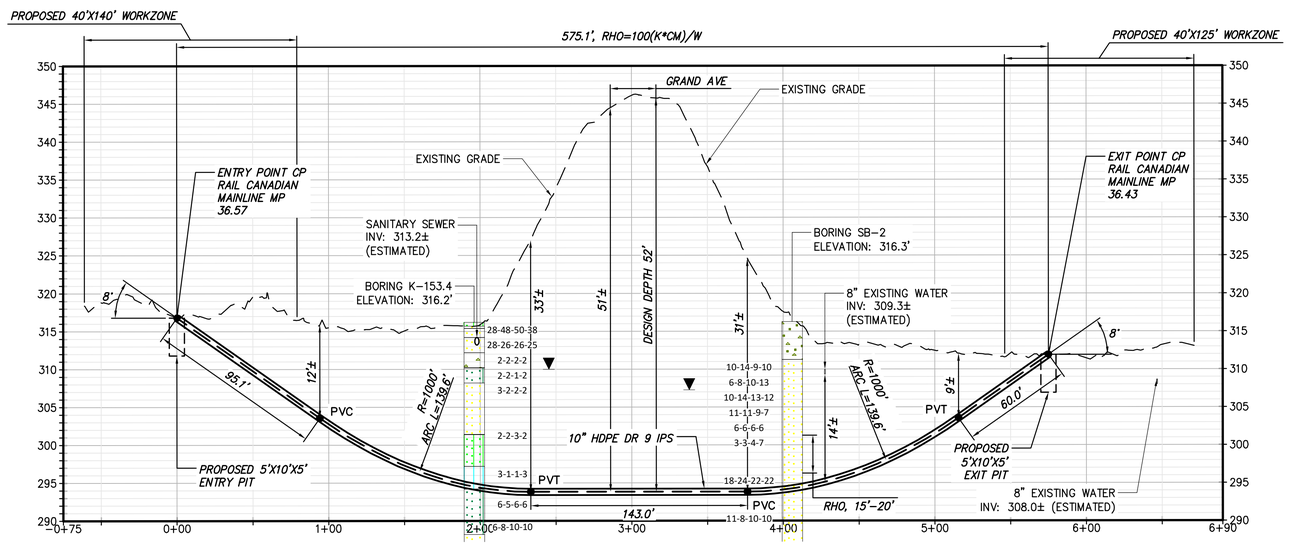


PROPOSED HDD 44 PLAN VIEW

CONDUIT 2



PROPOSED HDD 44 PROFILE

CONDUIT 2

BORING LOG STRIP LEGEND

B101

Blow Counts per 6" = 10-10-10

Recovery %/RQD % = 95%/90%

11000psi =UCS

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CHAMPLAIN HUDSON POWER EXPRESS

SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON

PLAN AND PROFILE - HDD 44, CONDUIT 2

KIEWIT PROJECT NO. 21162

CHA PROJECT NO. 066076

DRAWING NO. **C-324A**

DRAWN BY: CJL | DESIGNED BY: CJL | APPROVED BY: JEO | SCALE AS NOTED | DATE 04/05/2023 | REV. NO. X | SH.NO.

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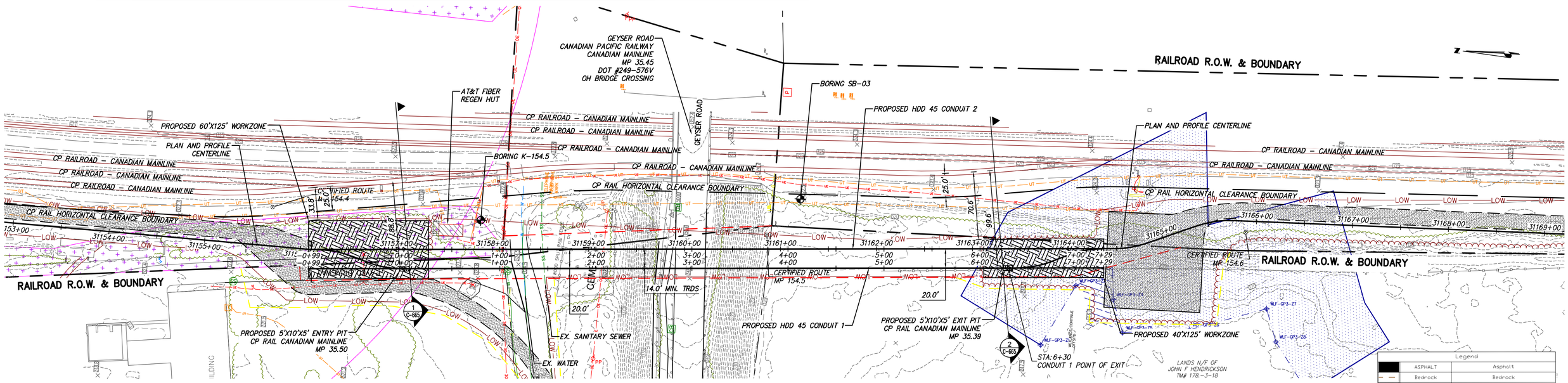
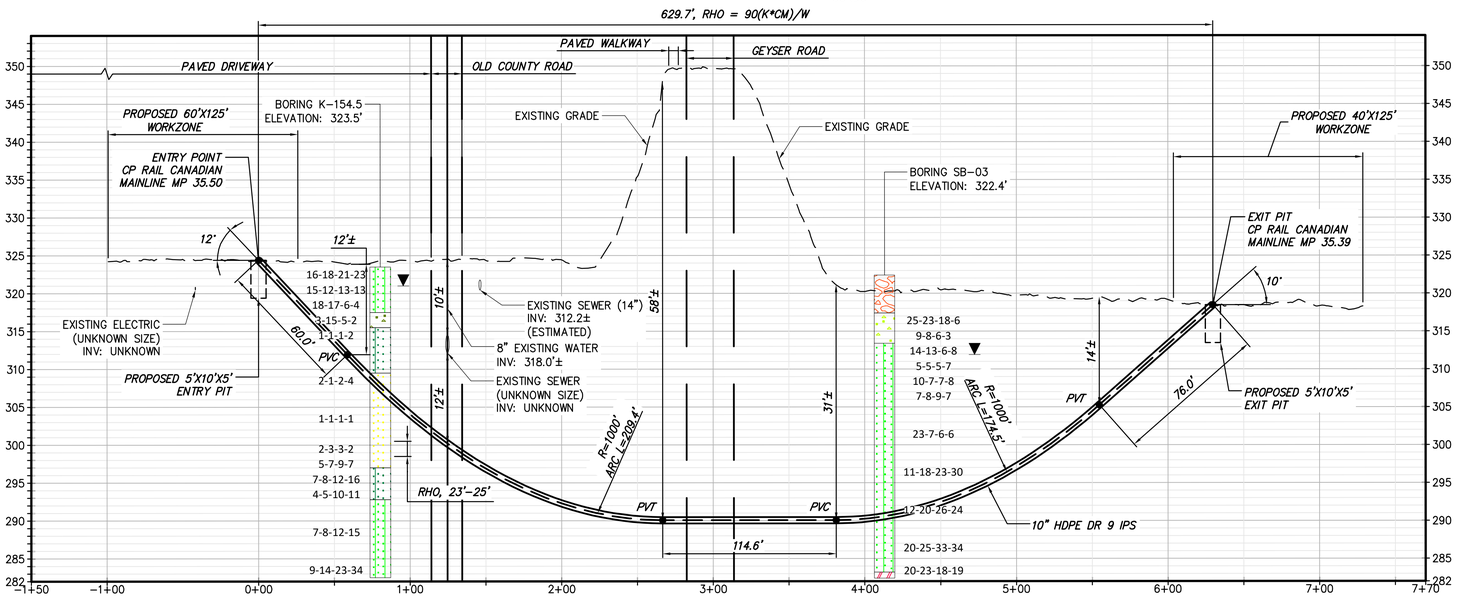


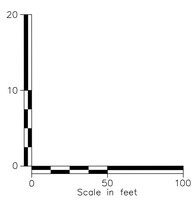
PROPOSED HDD 45 PLAN VIEW

CONDUIT 1



PROPOSED HDD 45 PROFILE

CONDUIT 1



BORING LOG STRIP LEGEND

B101

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GW-GM	Well Graded GRAVEL with SILT
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Weathered Rock	Undefined
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CHAMPLAIN HUDSON POWER EXPRESS

SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON

PLAN AND PROFILE - HDD 45, CONDUIT 1

KIEWIT PROJECT NO. 21162

CHA PROJECT NO. 066076

DRAWING NO. **C-325**

DRAWN BY: JAS | DESIGNED BY: JDL | APPROVED BY: JEO | SCALE AS NOTED | REV. NO. 1 | DATE 04/05/2023 | SH.NO.

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