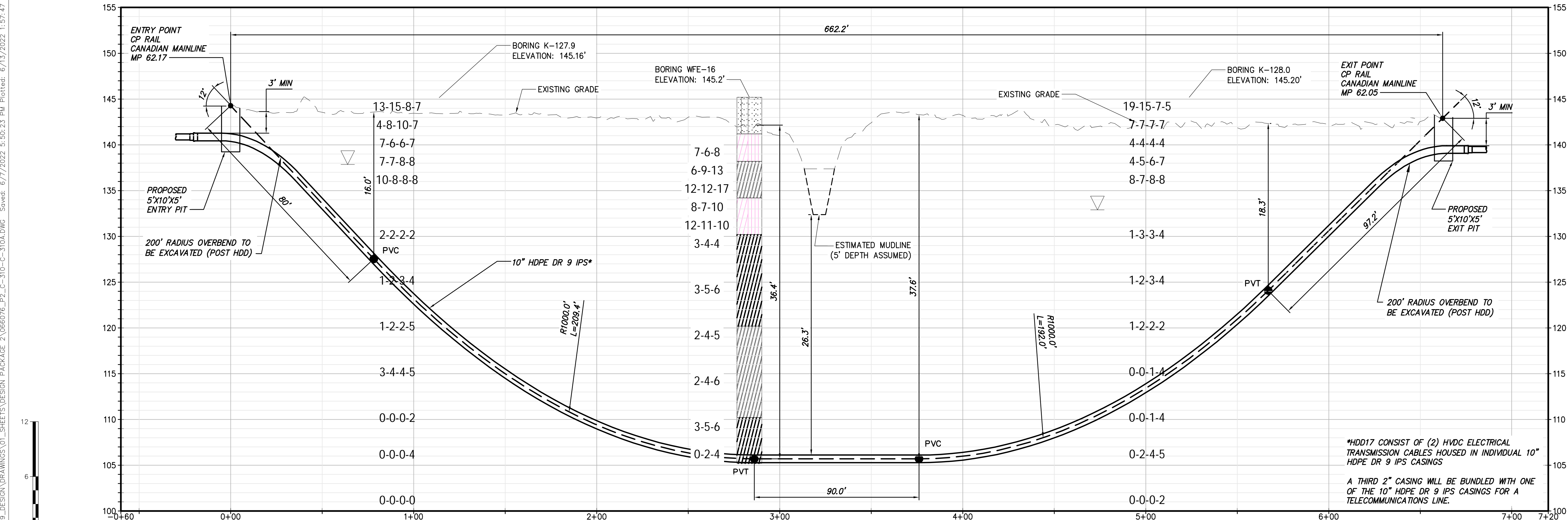


PROPOSED HDD 17 PLAN VIEW
CONDUIT 1



PROPOSED HDD 17 PROFILE VIEW
CONDUIT 1

BORING LOG STRIP LEGEND

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

11000 = UCS

Legend		
	ASPHALT	Asphalt
	CH	Fat CLAY
	CL	Lean CLAY
	CL-ML	SILTY CLAY
	CONCRETE	Concrete
	FILL	Fill
	GC	CLAYEY GRAVEL
	GM	SILTY GRAVEL
	Gneiss	Undefined
	GP	Poorly Graded GRAVEL
	GW	Well Graded GRAVEL
	ML	SILT
	OL	ORGANIC Lean CLAY
	OL/OH	ORGANIC SOIL
	Rock	Undefined
	Sandstone	Sandstone
	SC	CLAYEY SAND
	SC-SM	SILT, CLAYEY SAND
	SHALE	Shale
	SM	SILTY SAND
	SP	Poorly Graded SAND
	SP-SM	Poorly Graded SAND with SILT
	SW	Well graded SAND
	Topsoil	Topsoil
	USGS 708	Gneiss
	USGS 718	Granite 1
	USGS 732	Quartz

Champlain Hudson Power Express

Kiewit

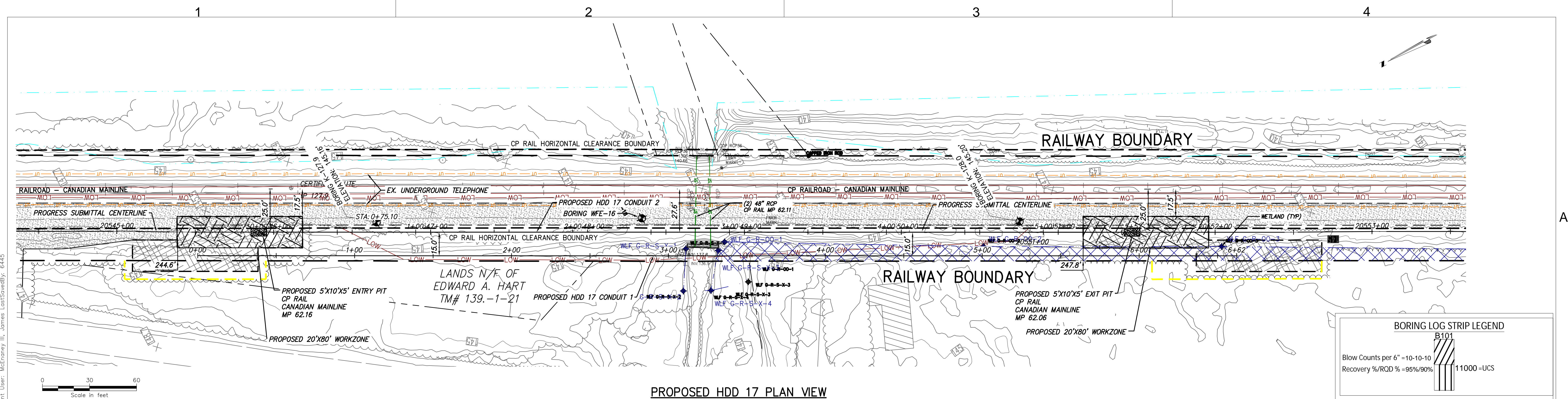
CHA

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.

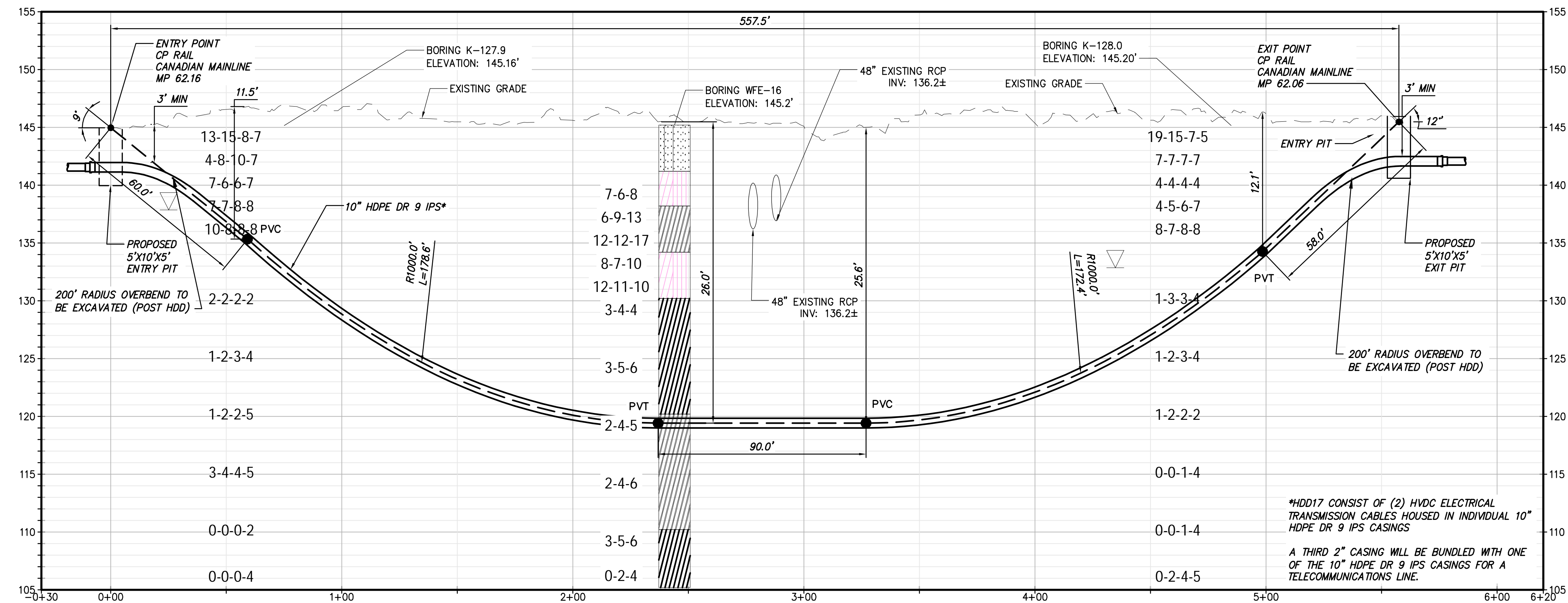
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A	01/28/2022	30% SUBMISSION	JM	JR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
PROPOSED PLAN AND PROFILE - HDD 17
CULVERT CROSSING CONDUIT 1
FORT ANN, WASHINGTON COUNTY, NY

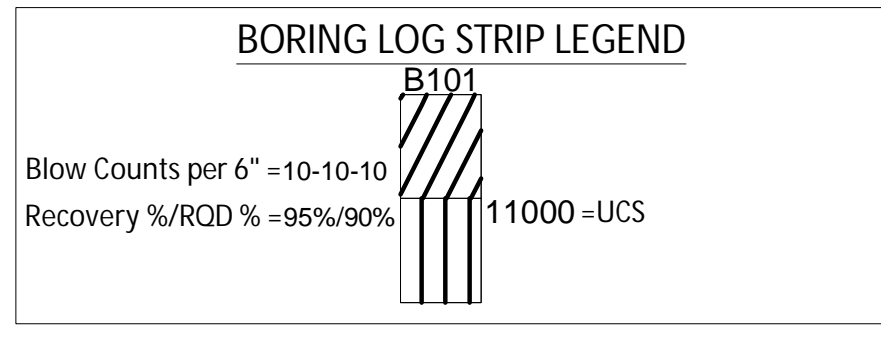
KIEWIT PROJECT NO. 21162	
CHA PROJECT NO. 066076	
DRAWING NO. C-310	
DRAWN BY: ES	DESIGNED BY: ES
APPROVED BY: JEO	SCALE AS NOTED
REV. NO.	DATE 03/04/2022
SH.NO.	XXX OF XXX




PROPOSED HDD 17 PLAN VIEW
CONDUIT 2




PROPOSED HDD 17 PROFILE VIEW
CONDUIT 2




Legend		
	ASPHALT	Asphalt
	CH	Fat CLAY
	CL	Lean CLAY
	CL-ML	SILTY CLAY
	CONCRETE	Concrete
	FILL	Fill
	GC	CLAYEY GRAVEL
	GM	SILTY GRAVEL
	Gneiss	Undefined
	GP	Poorly Graded GRAVEL
	GW	Well Graded GRAVEL
	ML	SILT
	OL	ORGANIC Lean CLAY
	OL/OH	ORGANIC SOIL
	Rock	Undefined
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	SC	CLAYEY SAND
	SC-SM	SILT, CLAYEY SAND
	SHALE	Shale
	SM	SILTY SAND
	SP	Poorly Graded SAND
	SP-SM	Poorly Graded SAND with SILT
	SW	Well graded SAND
	Topsoil	Topsoil
	USGS 708	Gneiss
	USGS 718	Granite 1
	USGS 732	Quartz



Champlain Hudson Power Express



Kiewit



CHA

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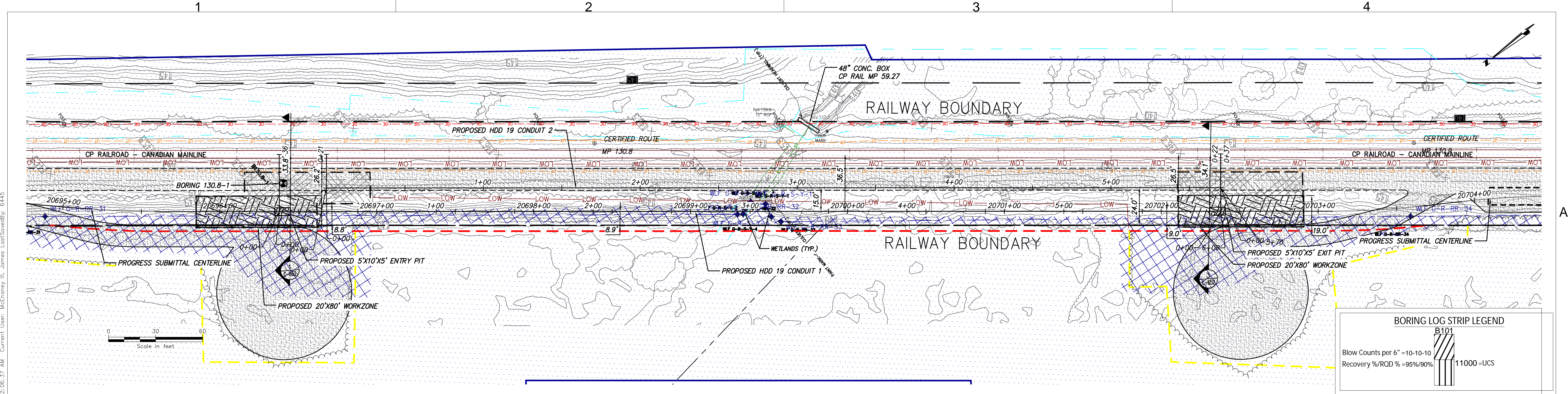
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A	01/28/2022	30% SUBMISSION	JM	JR
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP

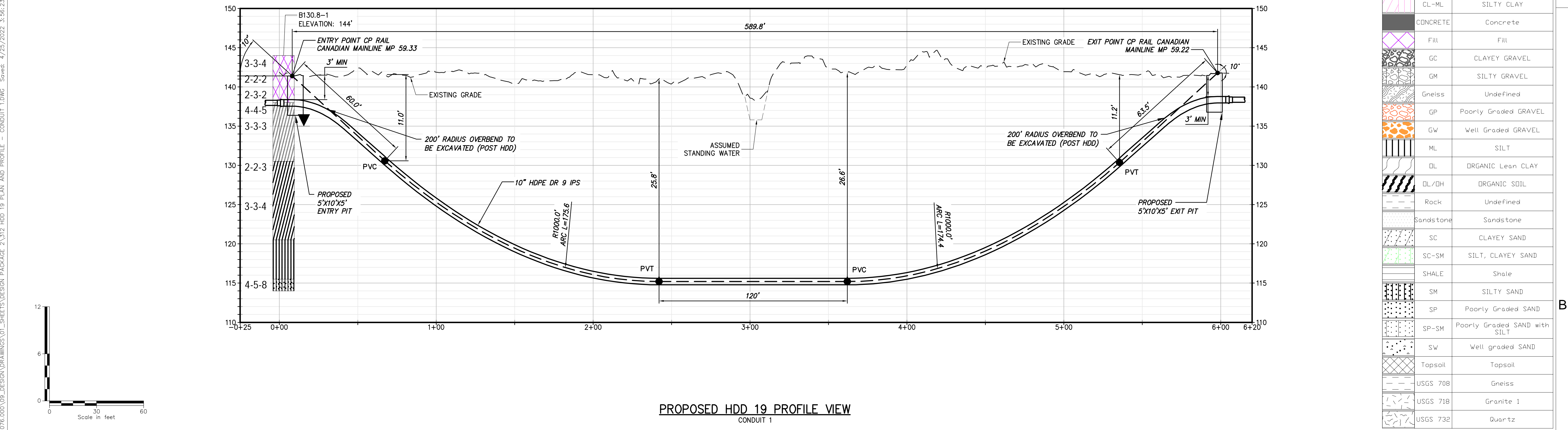
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
PROPOSED PLAN AND PROFILE - HDD 17
CULVERT CROSSING CONDUIT 2
FORT ANN, WASHINGTON COUNTY, NY

DRAWN BY:	ES	DESIGNED BY:	ES	APPROVED BY:	JEO	SCALE	AS NOTED	DATE	03/04/2022
						REV. NO.	X	SH.NO.	XXX OF XXX


KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. C-310A




PROPOSED HDD 19 PLAN VIEW
CONDUIT 1




PROPOSED HDD 19 PROFILE VIEW
CONDUIT 1



CHPE
Champlain Hudson
Power Express



Kiewit



CHA
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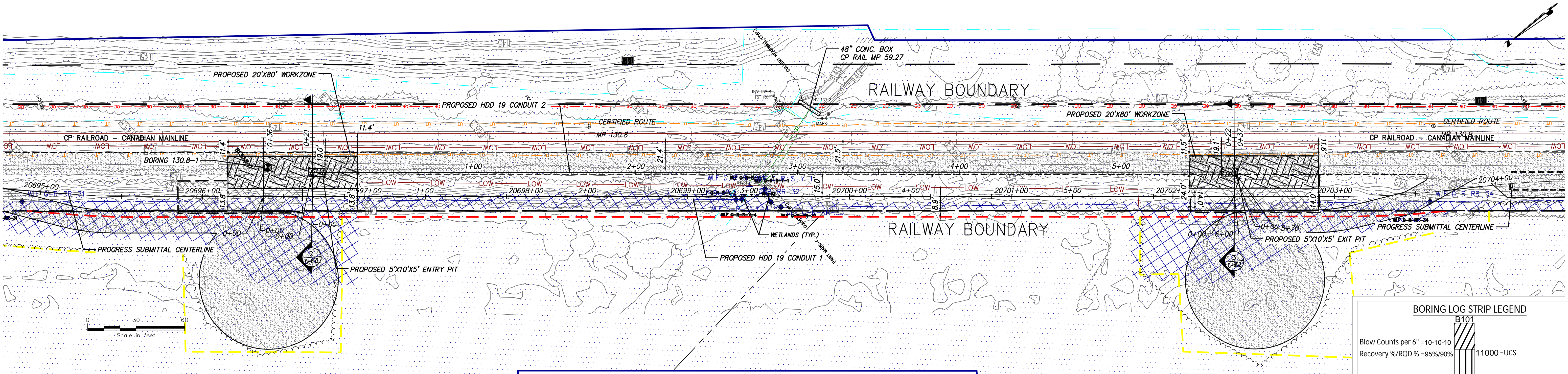
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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
PROPOSED PLAN AND PROFILE - HDD 19
CULVERT & WATER CROSSING CONDUIT 1
FORT ANN, WASHINGTON COUNTY, NY

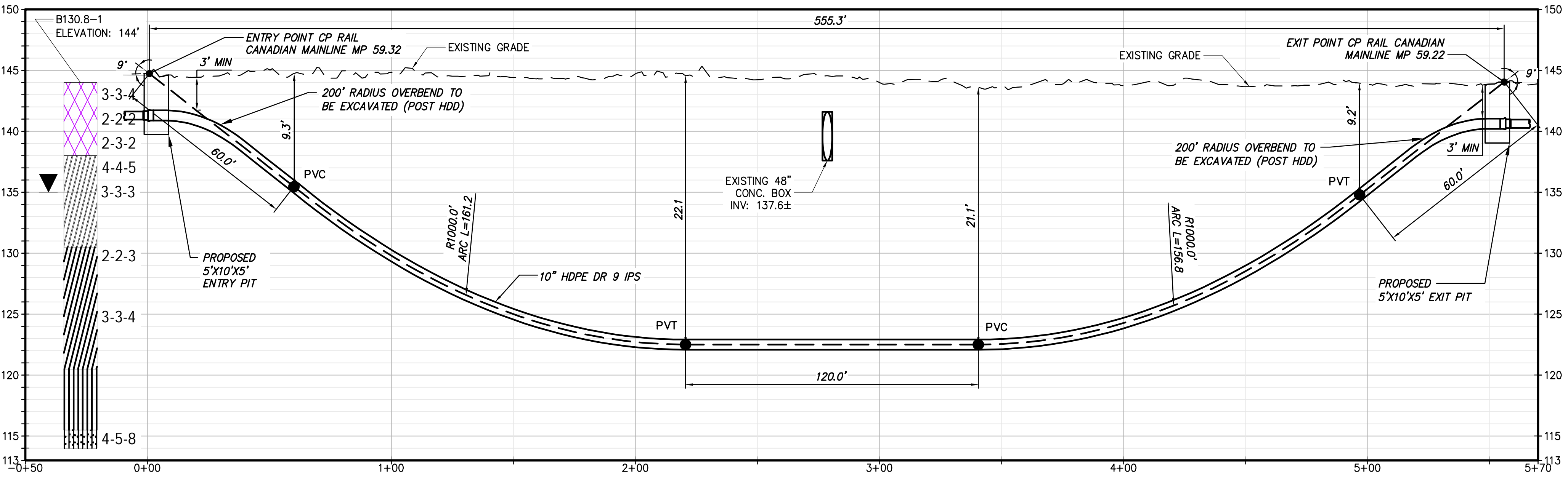
KIEWIT PROJECT NO.
21162
CHA PROJECT NO.
068076
DRAWING NO.
C-312

DRAWN BY: CJL **DESIGNED BY:** XXX **APPROVED BY:** XXX **SCALE:** AS NOTED **DATE:** 03/04/2022
REV. NO. X **SH. NO.** XXX OF XXX

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PROPOSED HDD 19 PLAN VIEW
CONDUIT 2



PROPOSED HDD 19 PROFILE VIEW
CONDUIT 2

BORING LOG STRIP LEGEND

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

11000 = UCS

Legend		
	ASPHALT	Asphalt
	CH	Fat CLAY
	CL	Lean CLAY
	CL-ML	SILTY CLAY
	CONCRETE	Concrete
	FILL	Fill
	GC	CLAYEY GRAVEL
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	USGS 708	Gneiss
	USGS 718	Granite 1
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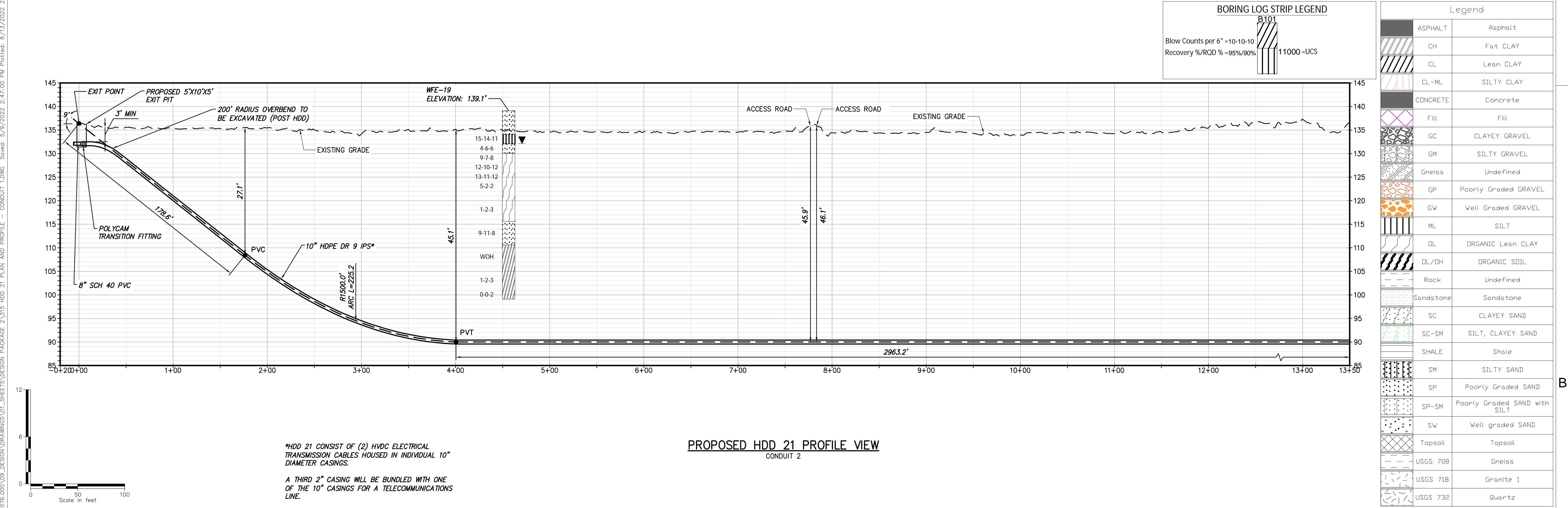
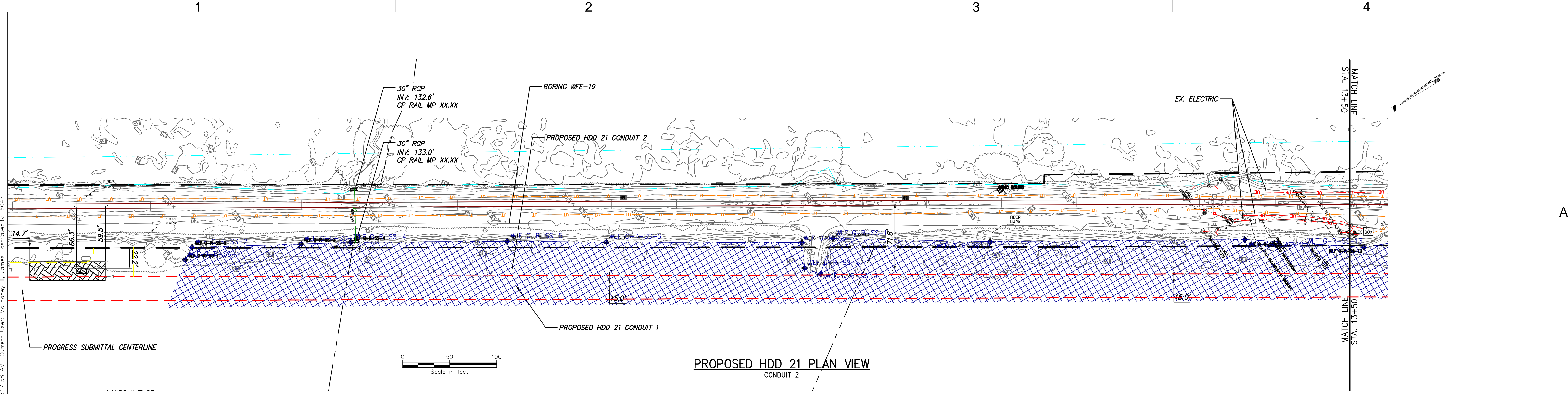
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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
PROPOSED PLAN AND PROFILE - HDD 19
CULVERT & WATER CROSSING CONDUIT 2
FORT ANN, WASHINGTON COUNTY, NY

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-312A
DATE	03/04/2022
SH.NO.	XXX OF XXX

DRAWN BY: xxx DESIGNED BY: xxx APPROVED BY: xxx SCALE AS NOTED REV.NO. X SH.NO.





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CHAMPLAIN HUDSON POWER EXPRESS

SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY

PROPOSED PLAN AND PROFILE - HDD 21

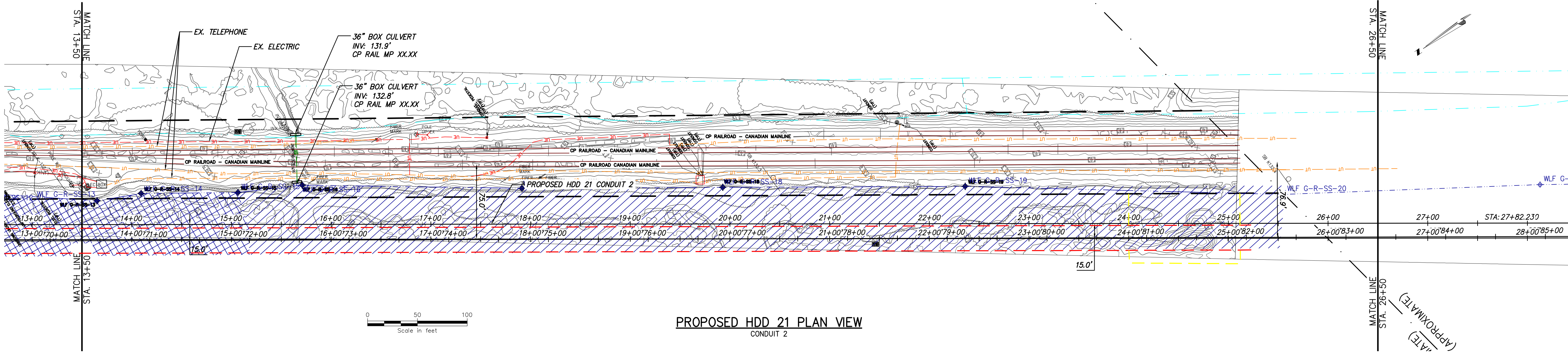
WETLAND CROSSING CONDUIT 2

WHITEHALL, WASHINGTON COUNTY, NY

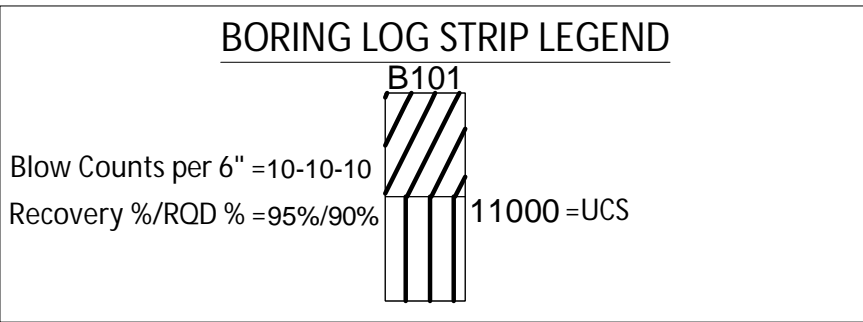
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DRAWING NO. C-315A	
DATE	03/04/2022
SH.NO.	X OF XXX

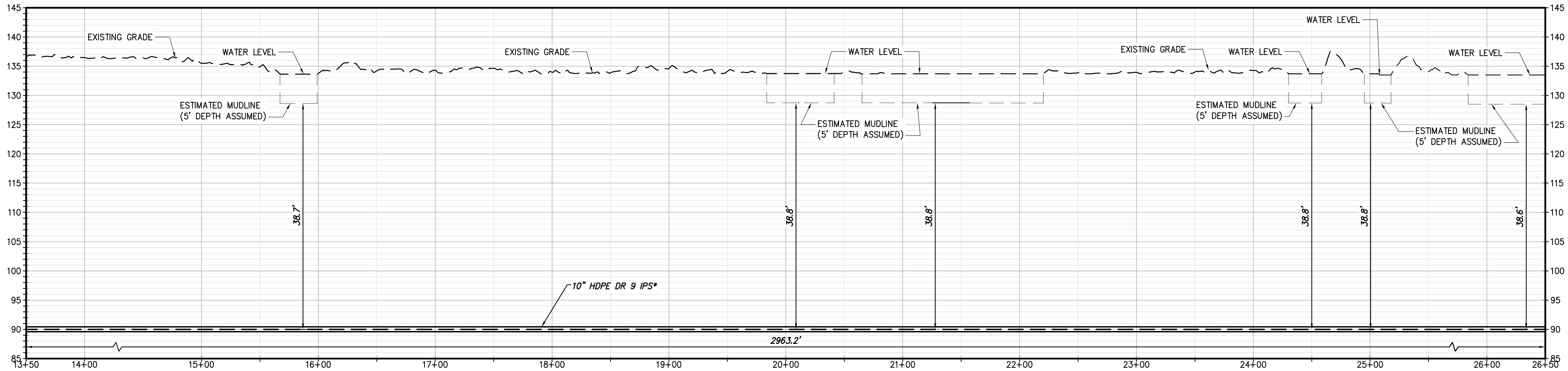
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PROPOSED HDD 21 PLAN VIEW
CONDUIT 2



Legend		
	ASPHALT	Asphalt
	CH	Fat CLAY
	CL	Lean CLAY
	CL-ML	SILTY CLAY
	CONCRETE	Concrete
	FILL	FILL
	GC	CLAYEY GRAVEL
	GM	SILTY GRAVEL
	Gneiss	Undefined
	GP	Poorly Graded GRAVEL
	GW	Well Graded GRAVEL
	ML	SILT
	OL	ORGANIC Lean CLAY
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	SC	CLAYEY SAND
	SC-SM	SILT, CLAYEY SAND
	SHALE	Shale
	SM	SILTY SAND
	SP	Poorly Graded SAND
	SP-SM	Poorly Graded SAND with SILT
	SW	Well graded SAND
	Topsoil	Topsoil
	USGS 708	Gneiss
	USGS 718	Granite 1
	USGS 732	Quartz



PROPOSED HDD 21 PROFILE VIEW
CONDUIT 2

*HDD 21 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.



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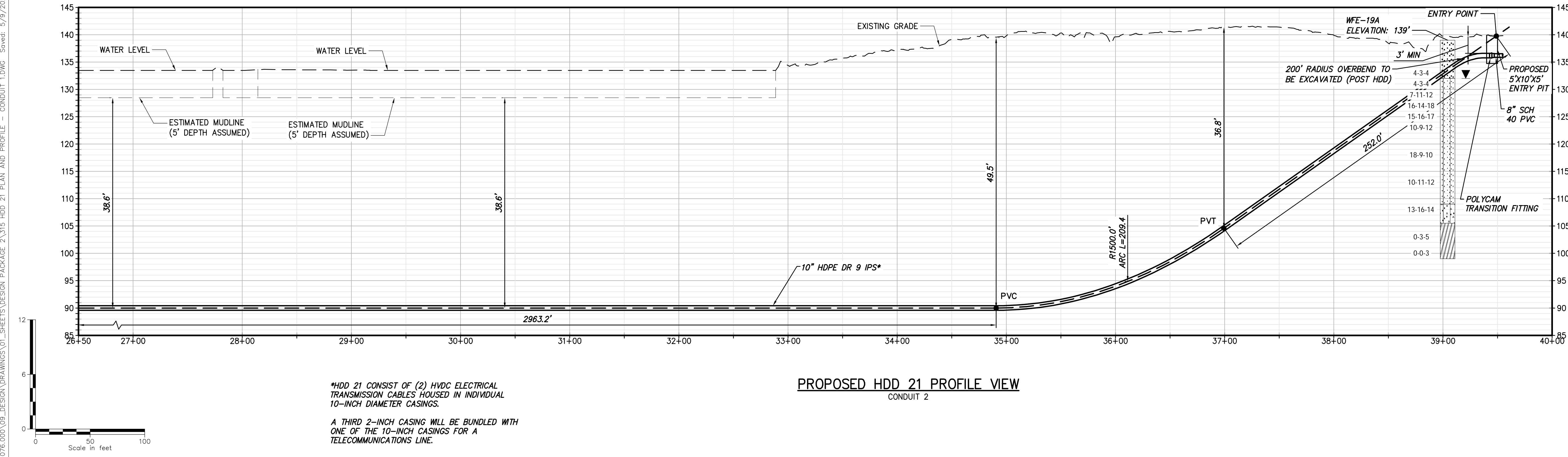
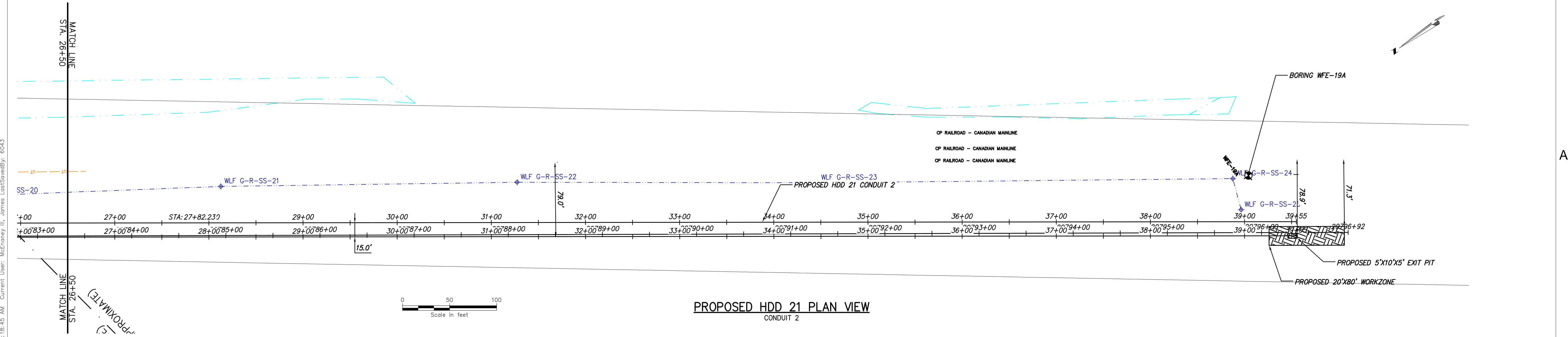
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A	01/28/2022	30% SUBMISSION	JM	JR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
PROPOSED PLAN AND PROFILE - HDD 21
WETLAND CROSSING CONDUIT 2
WHITEHALL, WASHINGTON COUNTY, NY

DRAWN BY: ES DESIGNED BY: ES APPROVED BY: JEO SCALE AS NOTED REV. NO. X SH.NO. X OF XXX




KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-315A.1
DATE	03/04/2022
SH.NO.	X OF XXX

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B101	11000=UCS

Legend		
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CHAMPLAIN HUDSON POWER EXPRESS

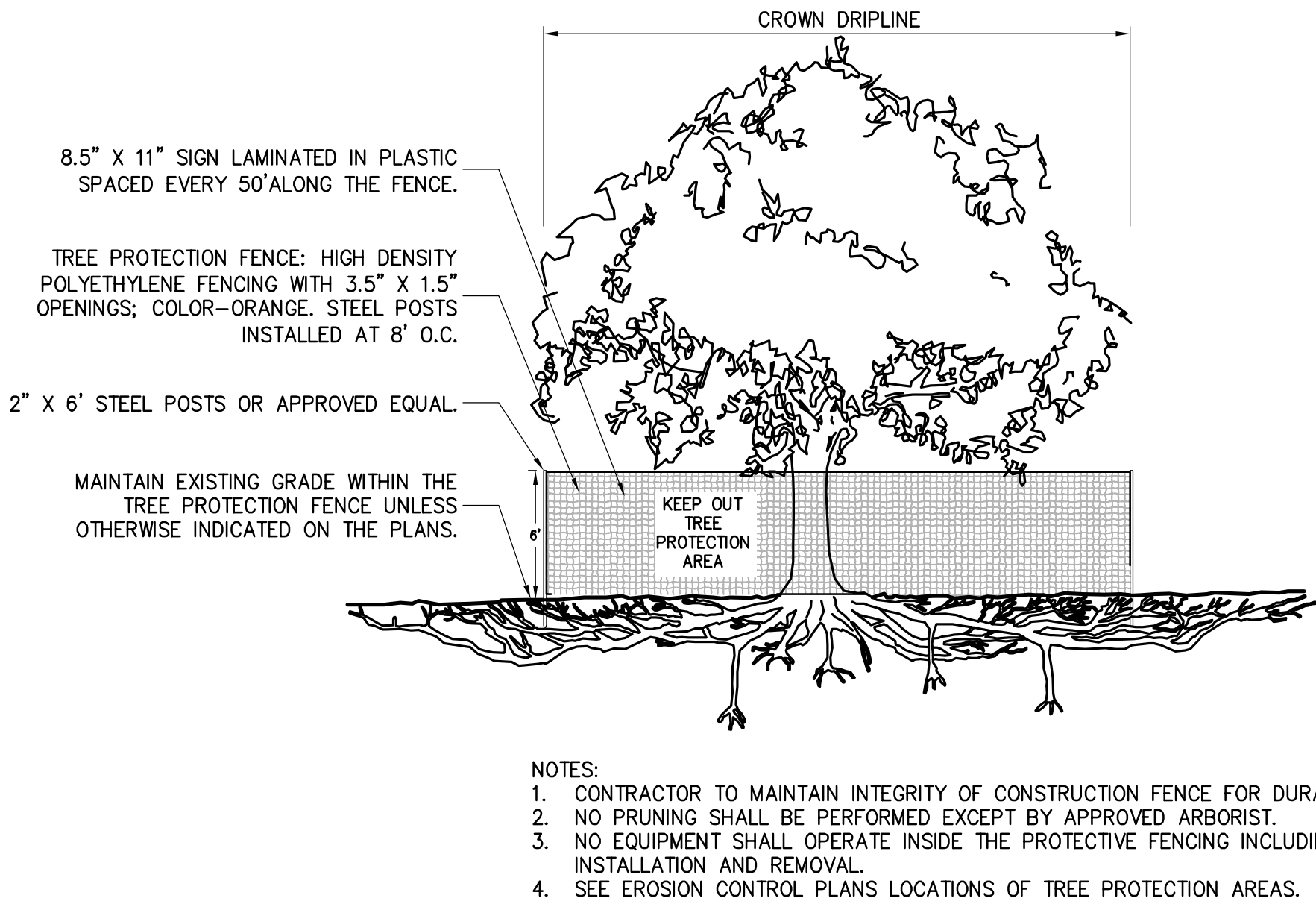
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY

PROPOSED PLAN AND PROFILE - HDD 21

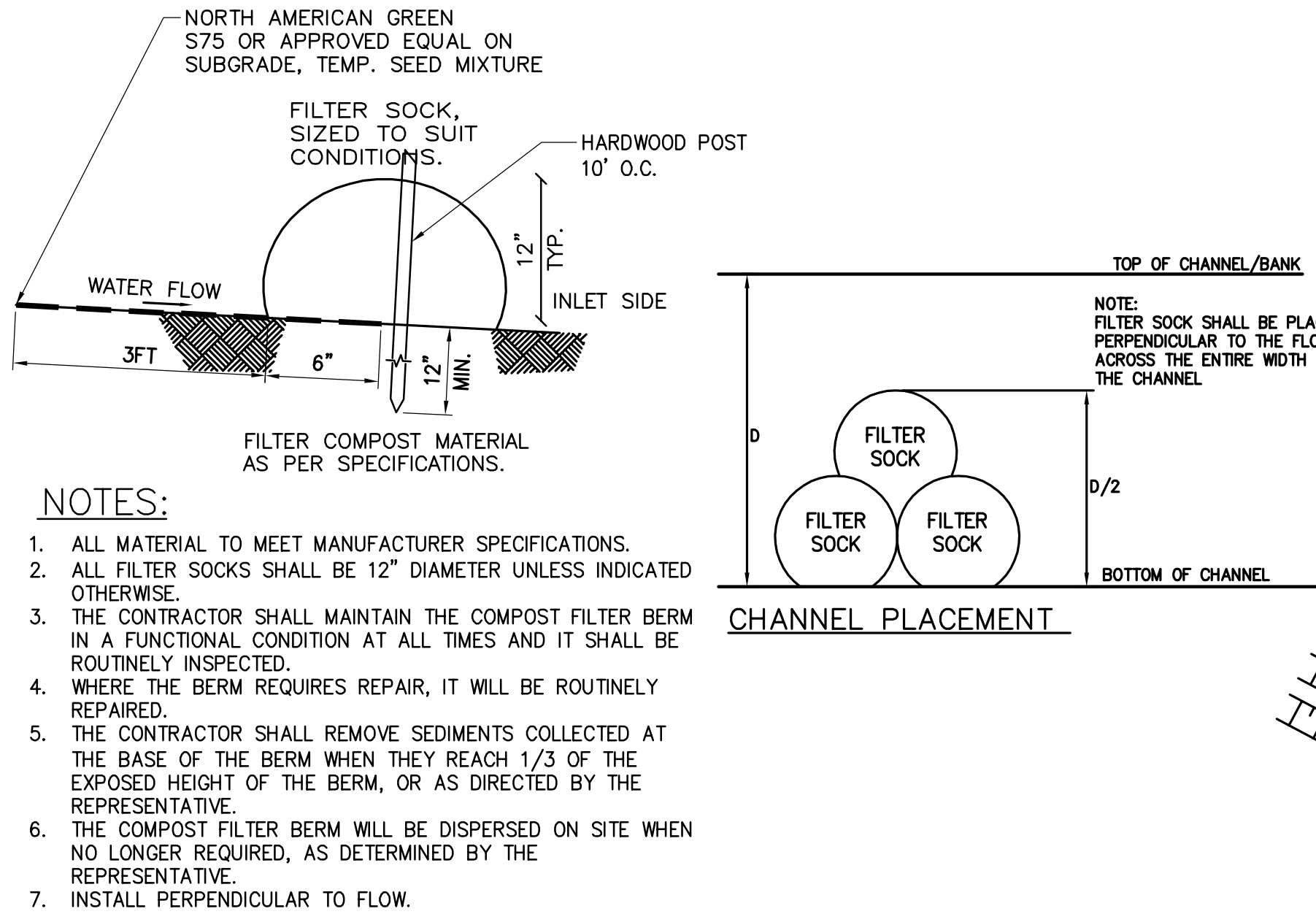
WETLAND CROSSING CONDUIT 2

WHITEHALL, WASHINGTON COUNTY, NY

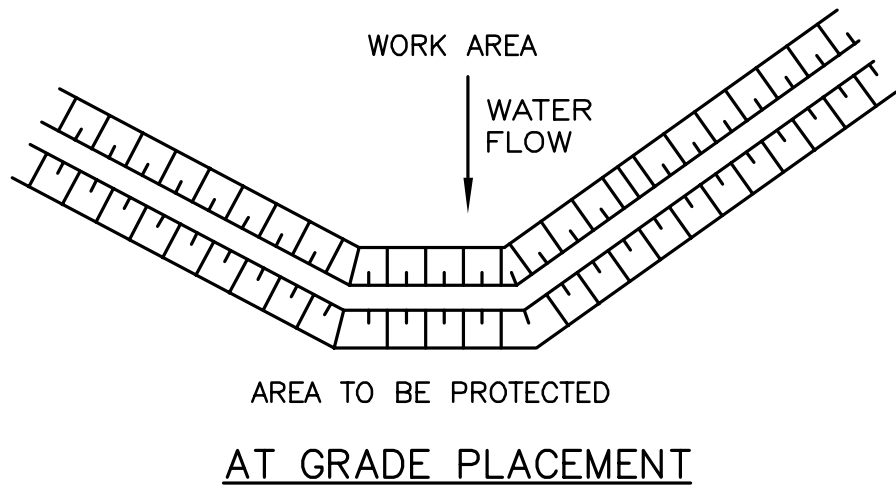
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SCALE	AS NOTED	DATE	03/04/2022		
REV. NO.	X	SH.NO.	X	OF	XXX



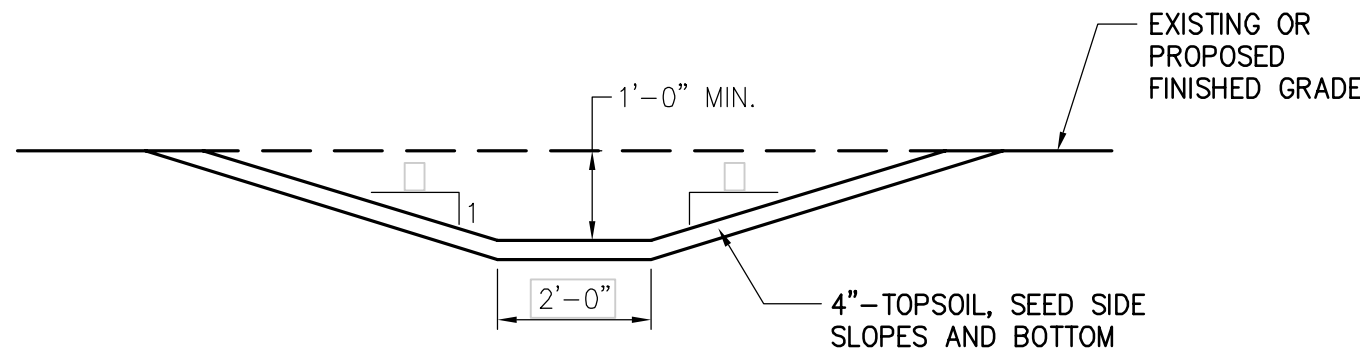
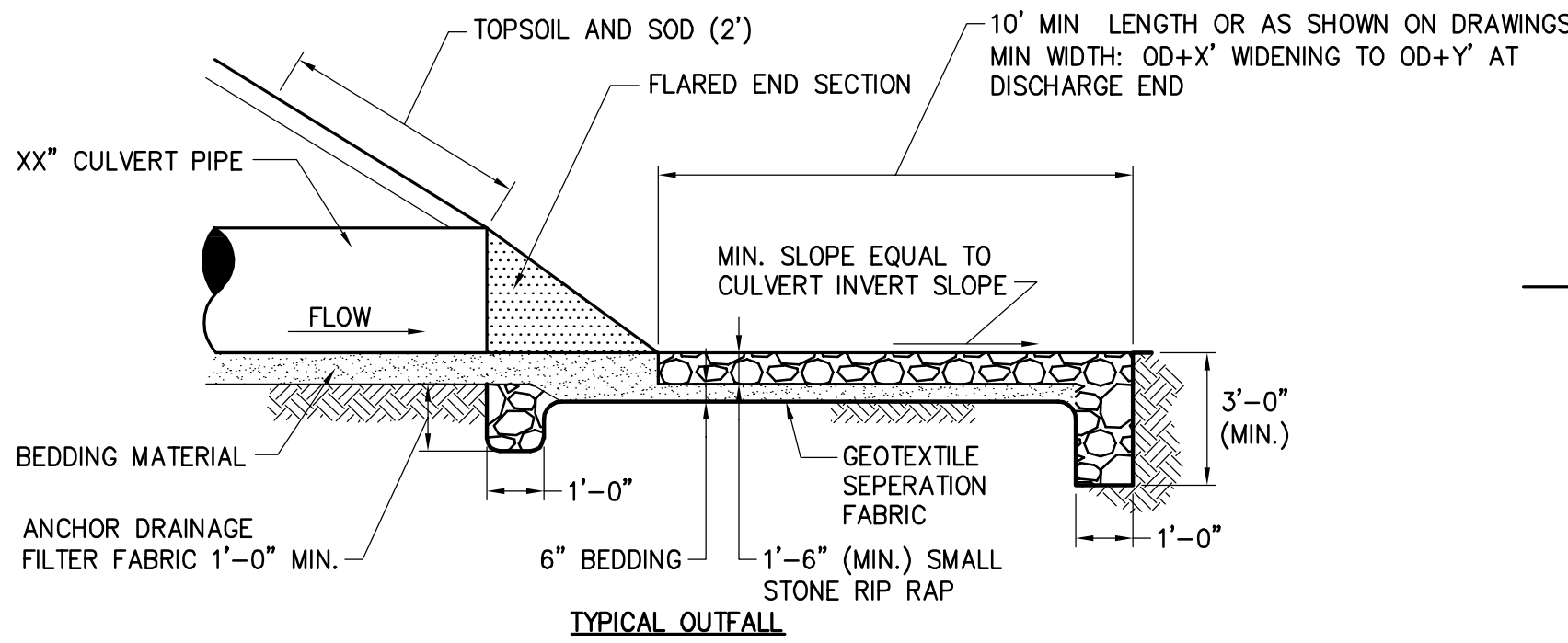
1 TREE PROTECTION
NOT TO SCALE



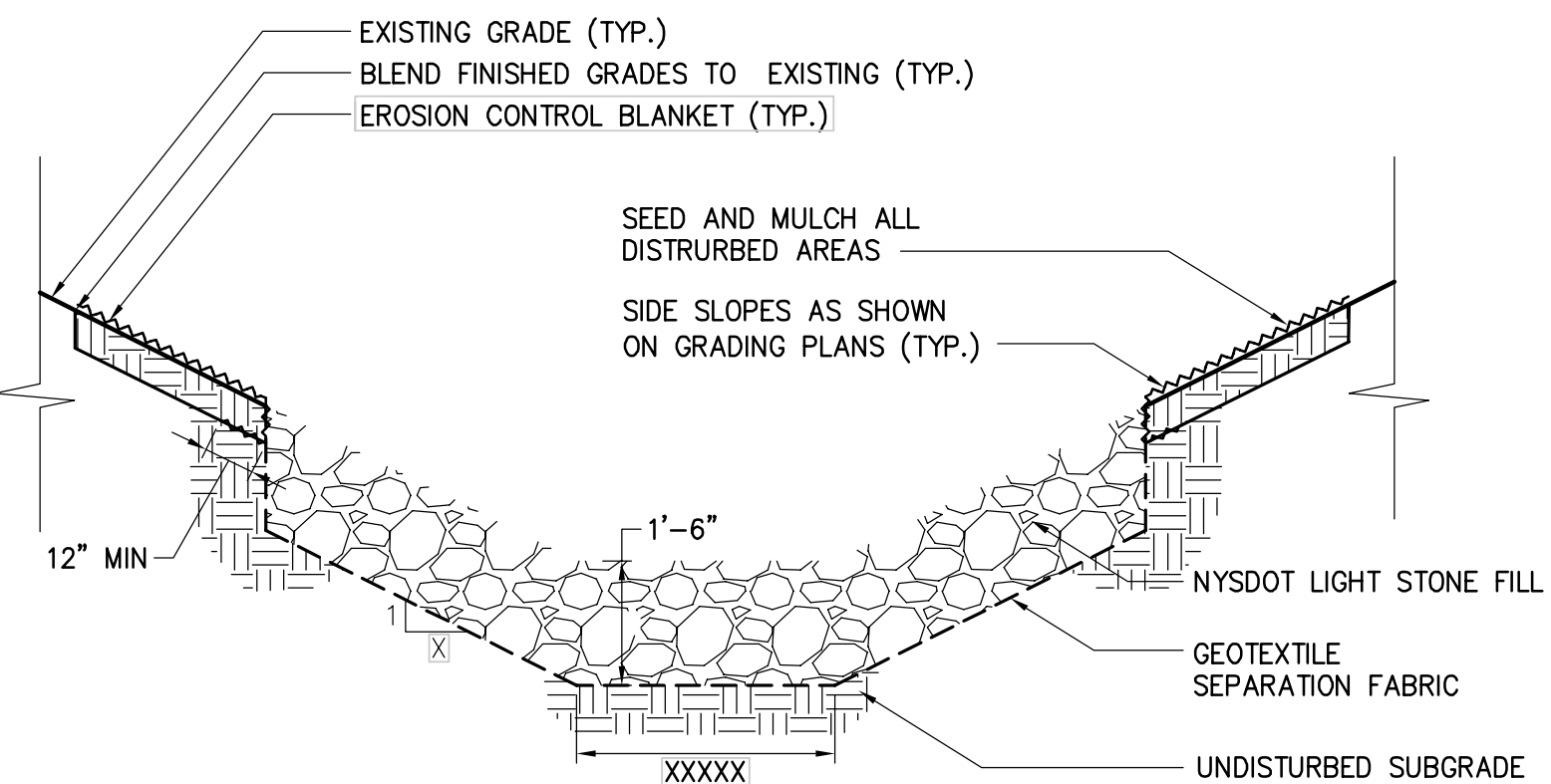
- MAINTENANCE NOTES:
1. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
 2. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED OF IN ACCORDANCE WITH THE PLAN.
 3. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED IN THE MANNER REQUIRED BY THE MANUFACTURER OR REPLACED WITHIN 24 HOURS OF INSPECTION NOTIFICATION.
 4. BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTO-DEGRADABLE FILTER SOCKS AFTER 1 YEAR. POLY-PROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
 5. UPON STABILIZATION OF THE AREA CONTRIBUTORY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK SHALL BE REMOVED. FOR REMOVAL THE MESH CAN BE CUT AND COMPOST SPREAD AS AN ADDITIONAL MULCH TO ACT AS A SOIL SUPPLEMENT.



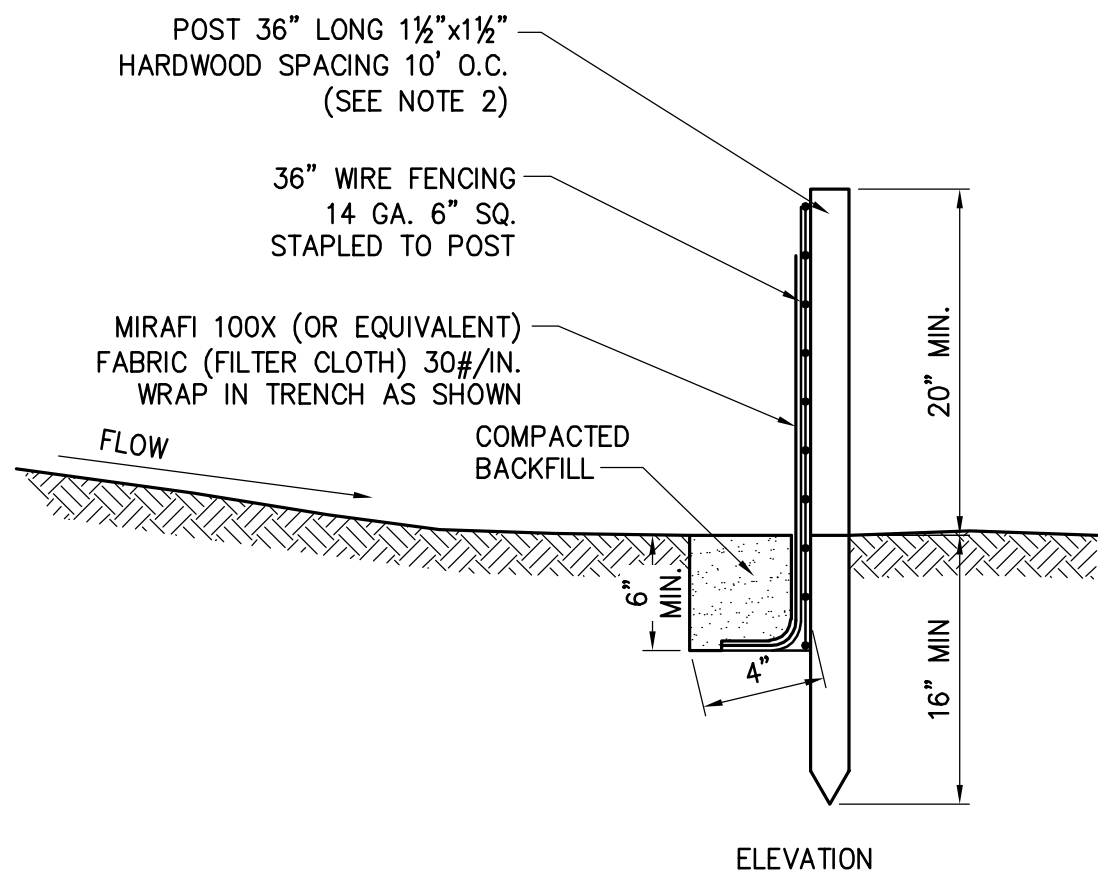
2 COMPOST FILTER SOCK DETAIL
SCALE: N.T.S.



5 TYPICAL GRASS DRAINAGE SWALE
SCALE: N.T.S.

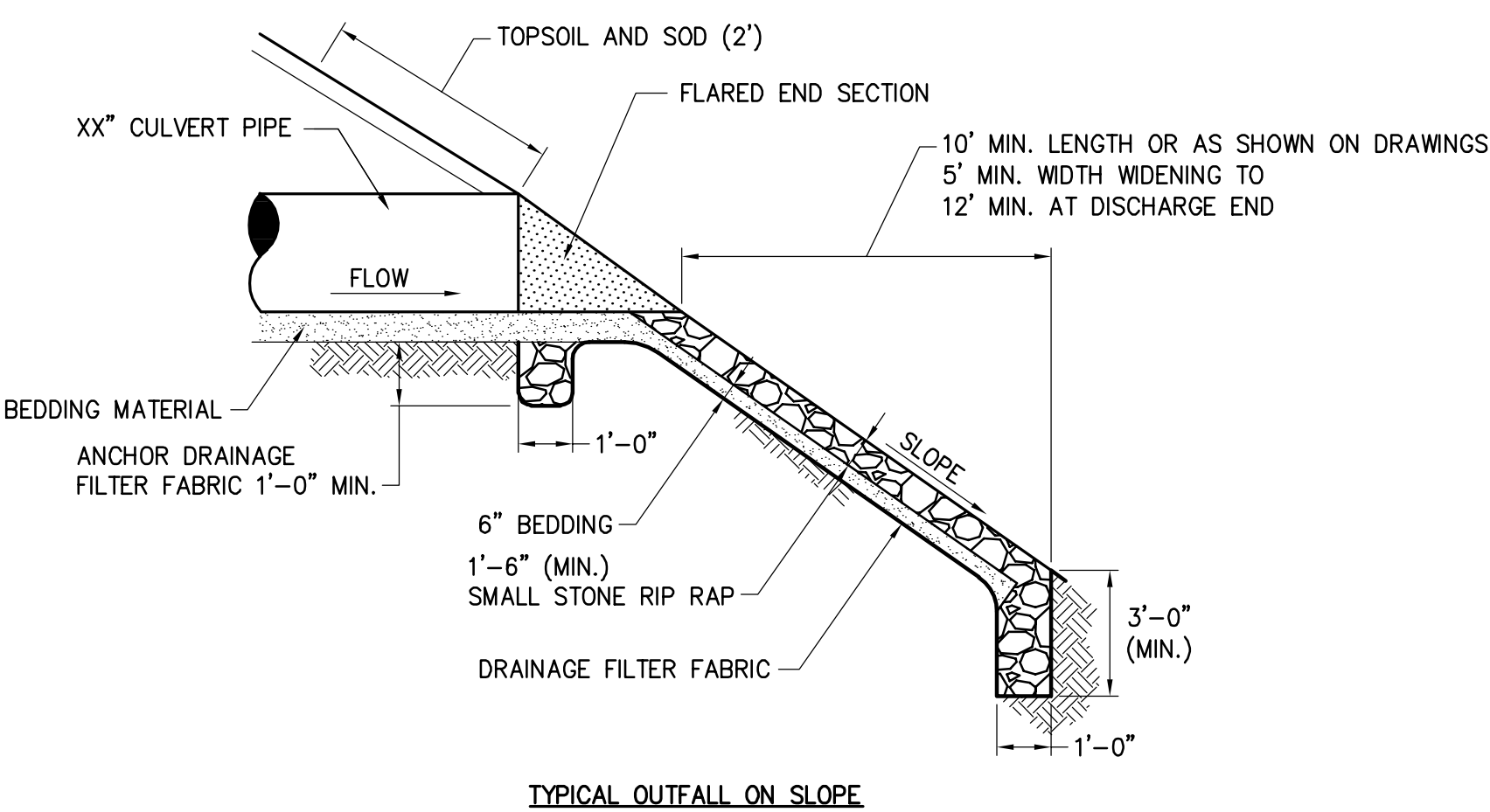


6 LIGHT STONE-LINED DRAINAGE CHANNEL
SCALE: N.T.S.



- NOTES:
1. TIE FABRIC TO WIRE FENCE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
 2. IF EXTRA STRENGTH FABRIC (GREATER THAN 50#/INCH) IS USED, WIRE CAN BE DELETED IF POST SPACING IS REDUCED TO 6' O.C.
 3. AT THE ENDS OF THE FENCING THE FIRST 20' SHALL BE TURNED UP THE SLOPE 2'.
 4. POSTS SHOULD BE INCLINED TOWARD THE DIRECTION FLOW CAME FROM.
 5. OVERLAP FABRIC A MINIMUM OF 6" AND FOLDED AT JOINTS. ATTACH FILTER FABRIS TO STAKES ALLOWING EXTENSION INTO TRENCH AS SHOWN; SECURE TO STAKES AS NOTED.
 6. THE MAXIMUM AREA OF RUNOFF PER 100LF. OF FENCE SHALL NOT EXCEED 0.25 ACRES.
 7. MAINTENANCE SHALL BE PERFORMED AS NECESSARY. THE FENCING SHALL BE CHECKED AFTER EVERY STORM TO ENSURE THEIR PROPER FUNCTIONING.
 8. WHEN FENCE IS NO LONGER NEEDED, THE ACCUMULATED SILT, THE POSTS AND FABRIC SHALL BE REMOVED AND TRENCH BACK FILLED WITH TOPSOIL AND SEEDED.
 9. FENCING SHOULD BE PLACED AS SHOWN ON THE DRAWING OR IF NOT SHOWN, 10' BEYOND THE TOE OF THE OF THE SLOPE AND AT A SPACING IN ACCORDANCE WITH THE TABLE.
 10. EXCAVATE TRENCH AS PER DETAIL AND SET POSTS AT 10' O.C.
 11. BACKFILL WITH COMPACTED, EXCAVATED SOIL FROM TRENCH.

3 SILT FENCE
SCALE: N.T.S.



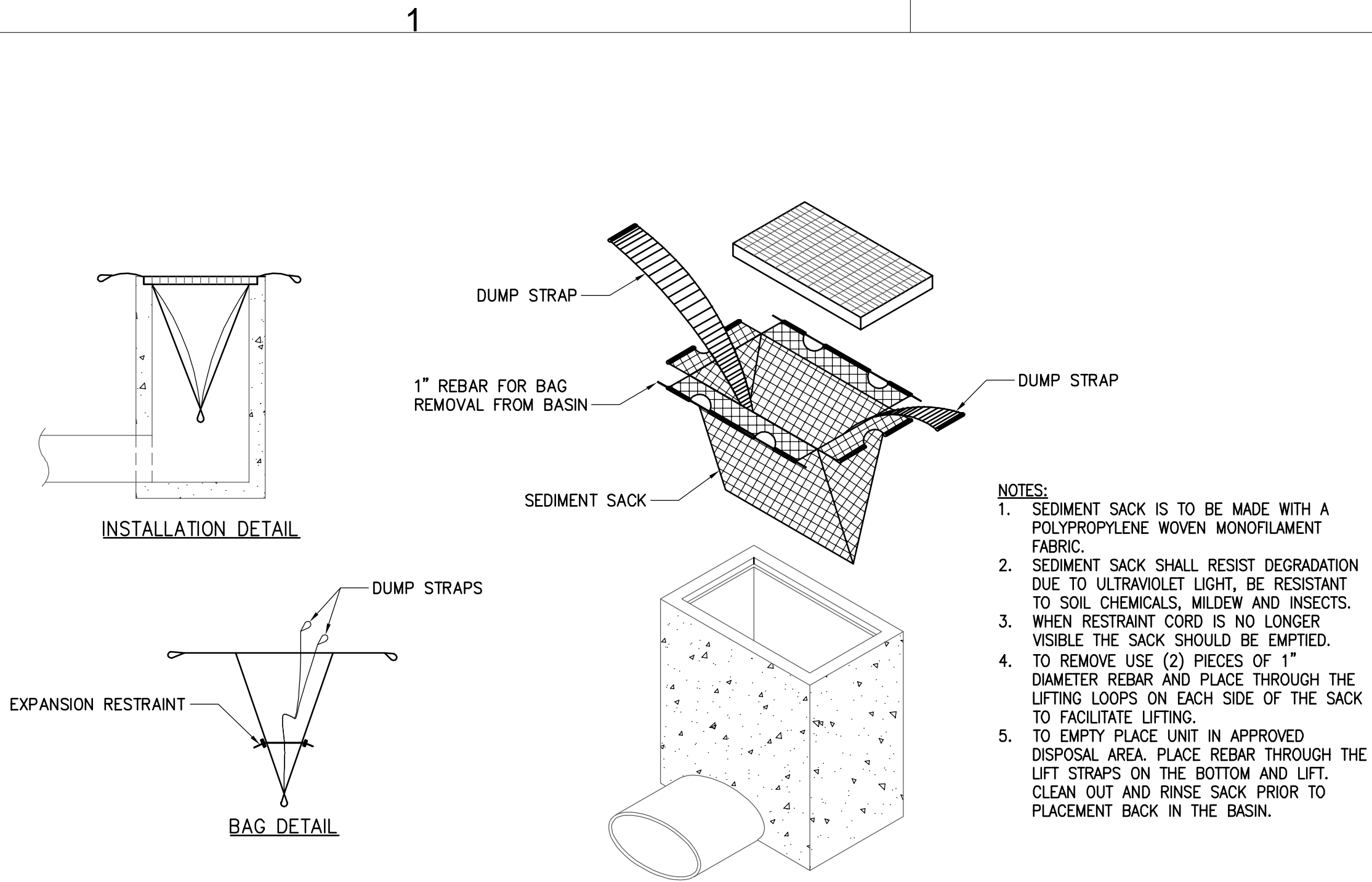
4 TYPICAL CULVERT OUTFALL RIP RAP
SCALE: N.T.S.

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
F	05/06/2022	PROGRESS SUBMISSION	JM	JR
E	03/17/2022	PROGRESS SUBMISSION	JM	JR
D	02/04/2022	PROGRESS SUBMISSION	JM	JR
C	01/28/2022	PROGRESS SUBMISSION	JM	JR
B	12/21/2021	PROGRESS SUBMISSION	JM	JR
A	11/02/2021	30% SUBMISSION	JM	JR

**CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
EROSION AND SEDIMENT CONTROL DETAILS**

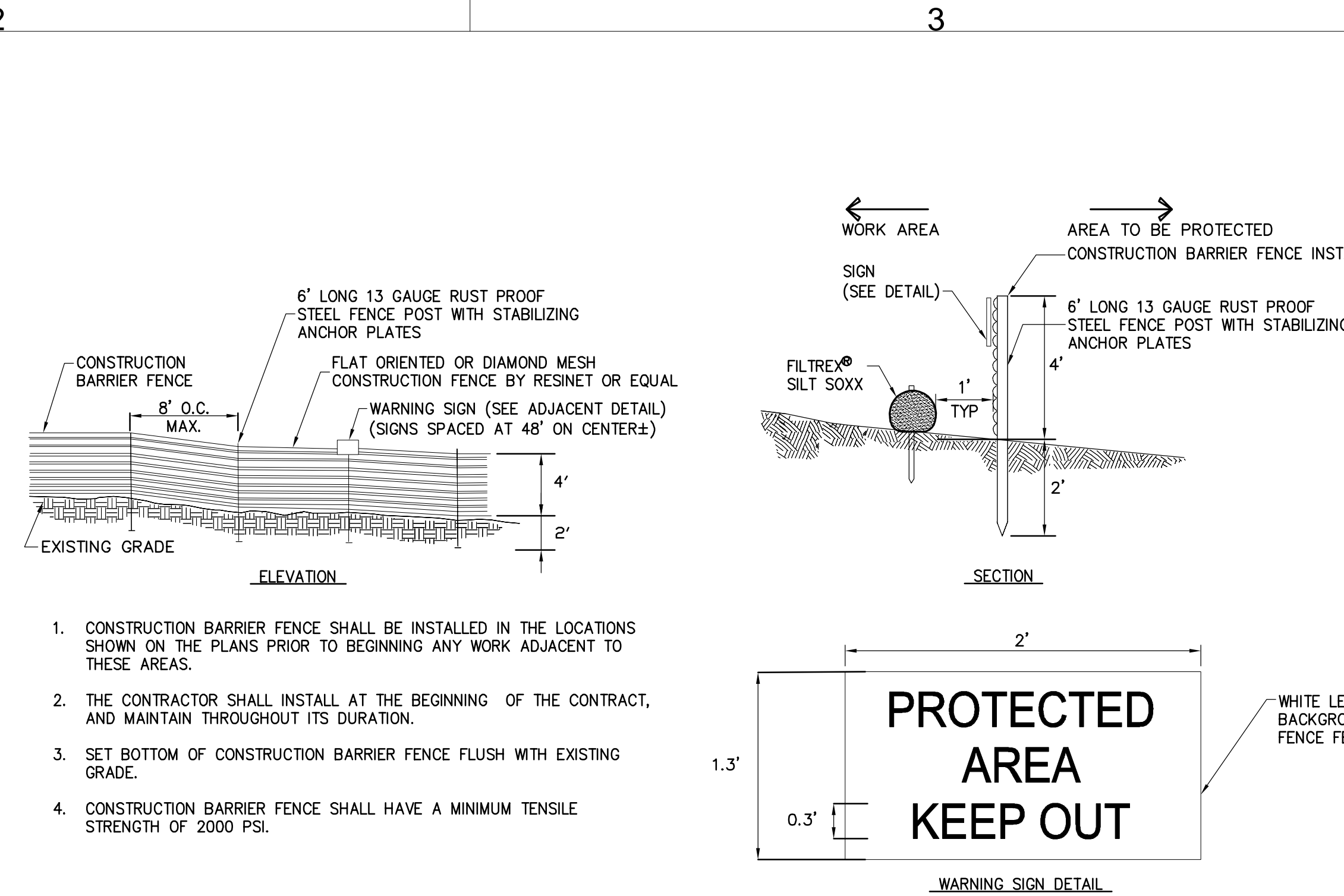
KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-601

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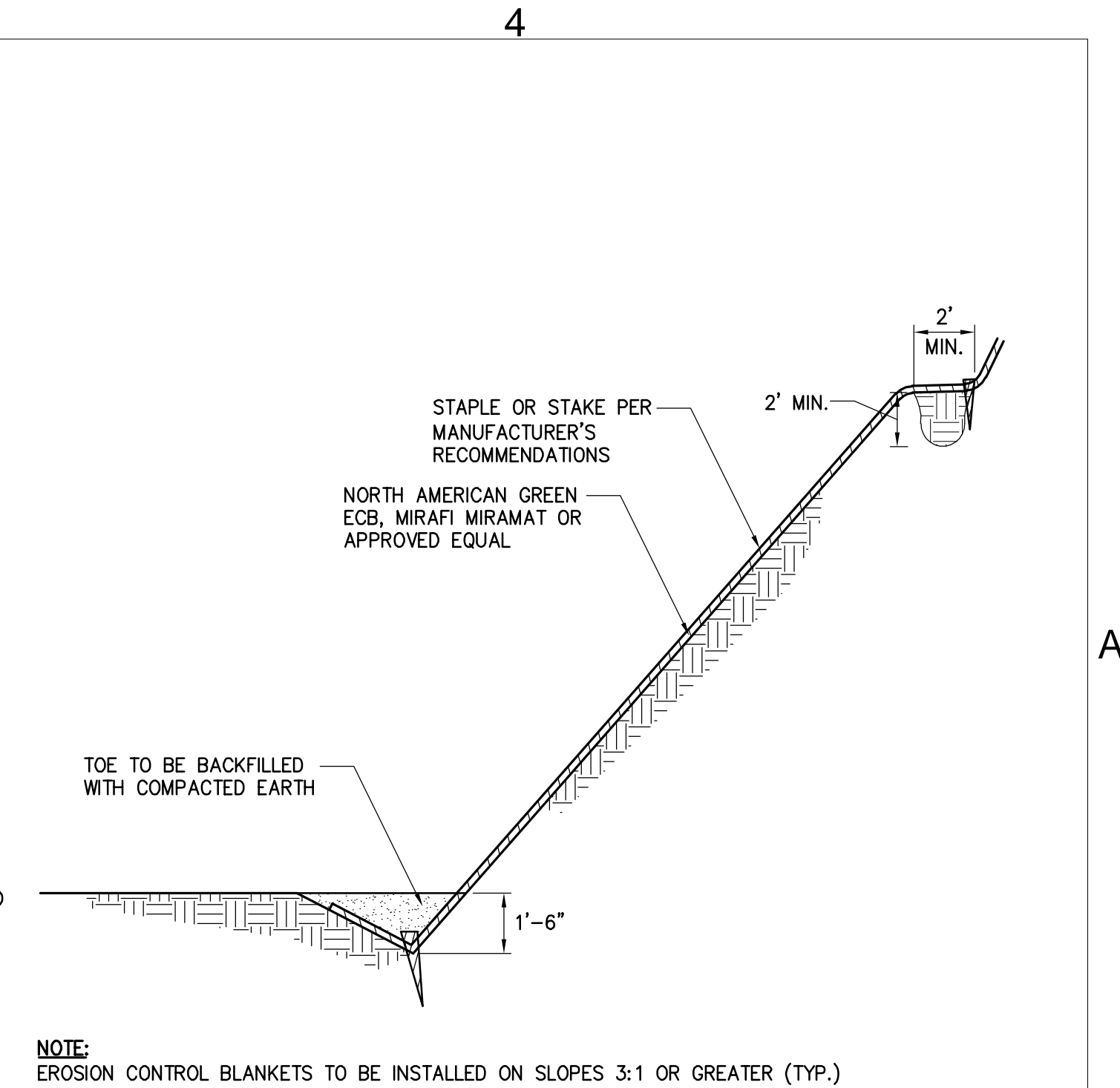
1 INLET PROTECTION

SCALE: N.T.S.



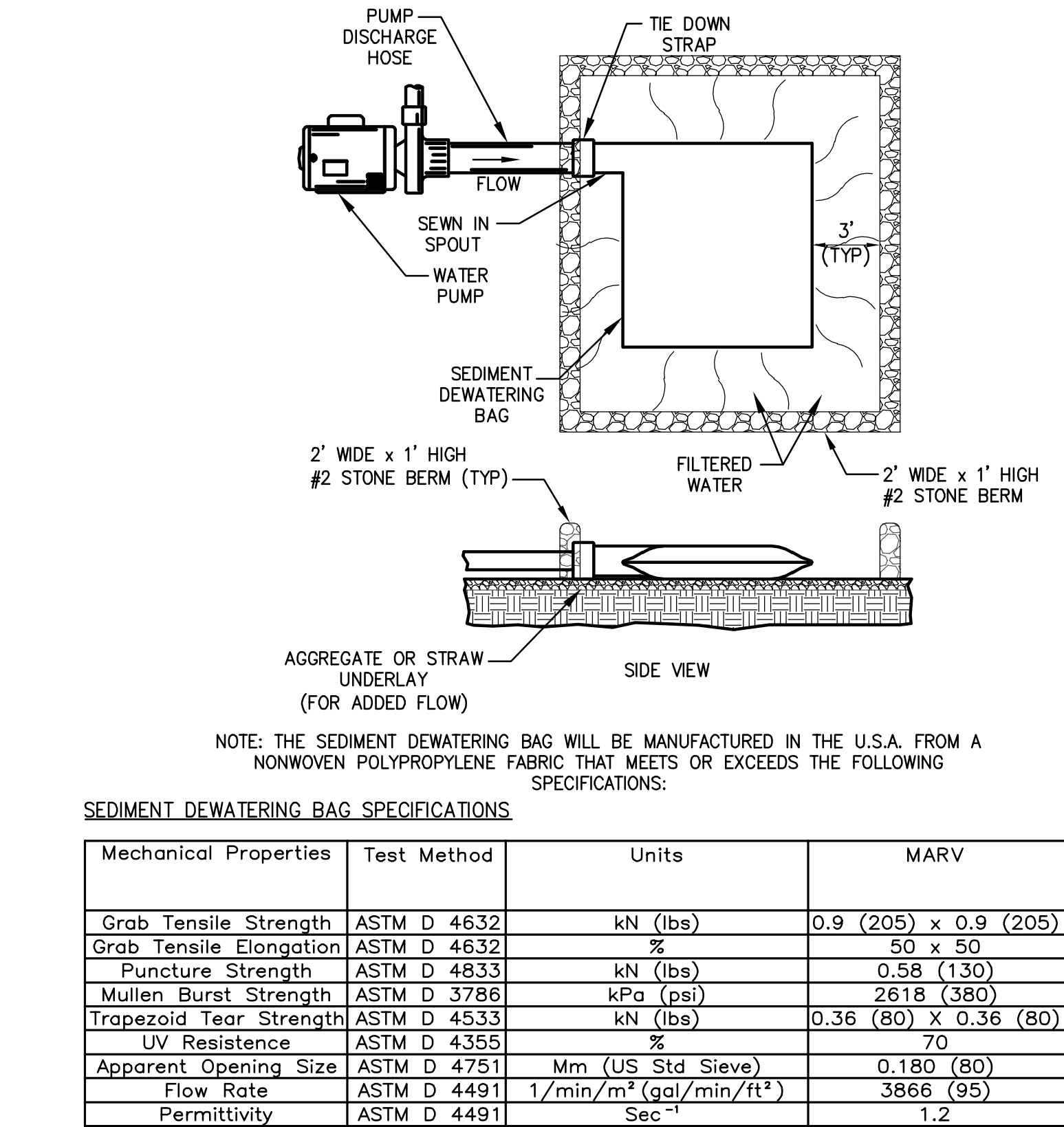
2 WETLAND PROTECTION FENCE

SCALE: N.T.S.



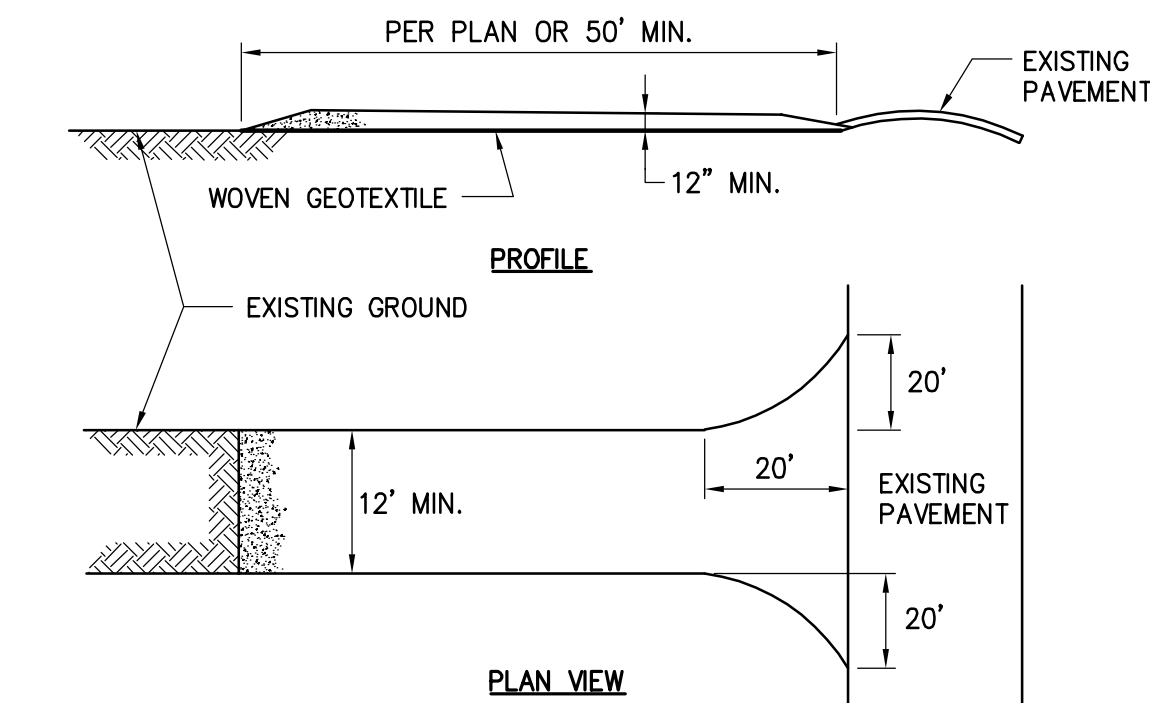
3 EROSION CONTROL BANK STABILIZATION DETAIL

SCALE: N.T.S.



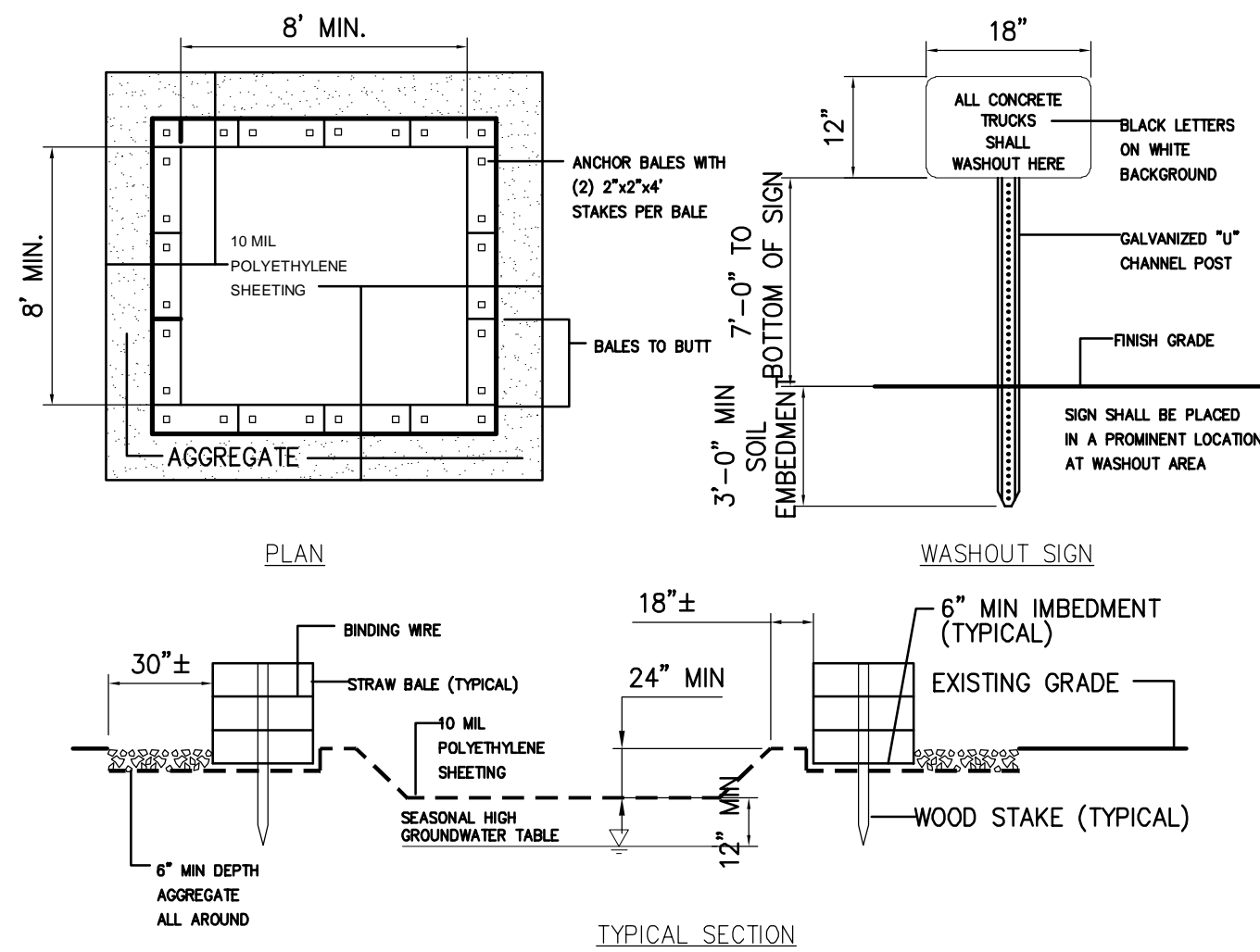
4 SEDIMENT DEWATERING BAG

SCALE: N.T.S.



5 STABILIZED CONSTRUCTION ACCESS

SCALE: N.T.S.



6 CONCRETE WASHOUT AREA

SCALE: N.T.S.



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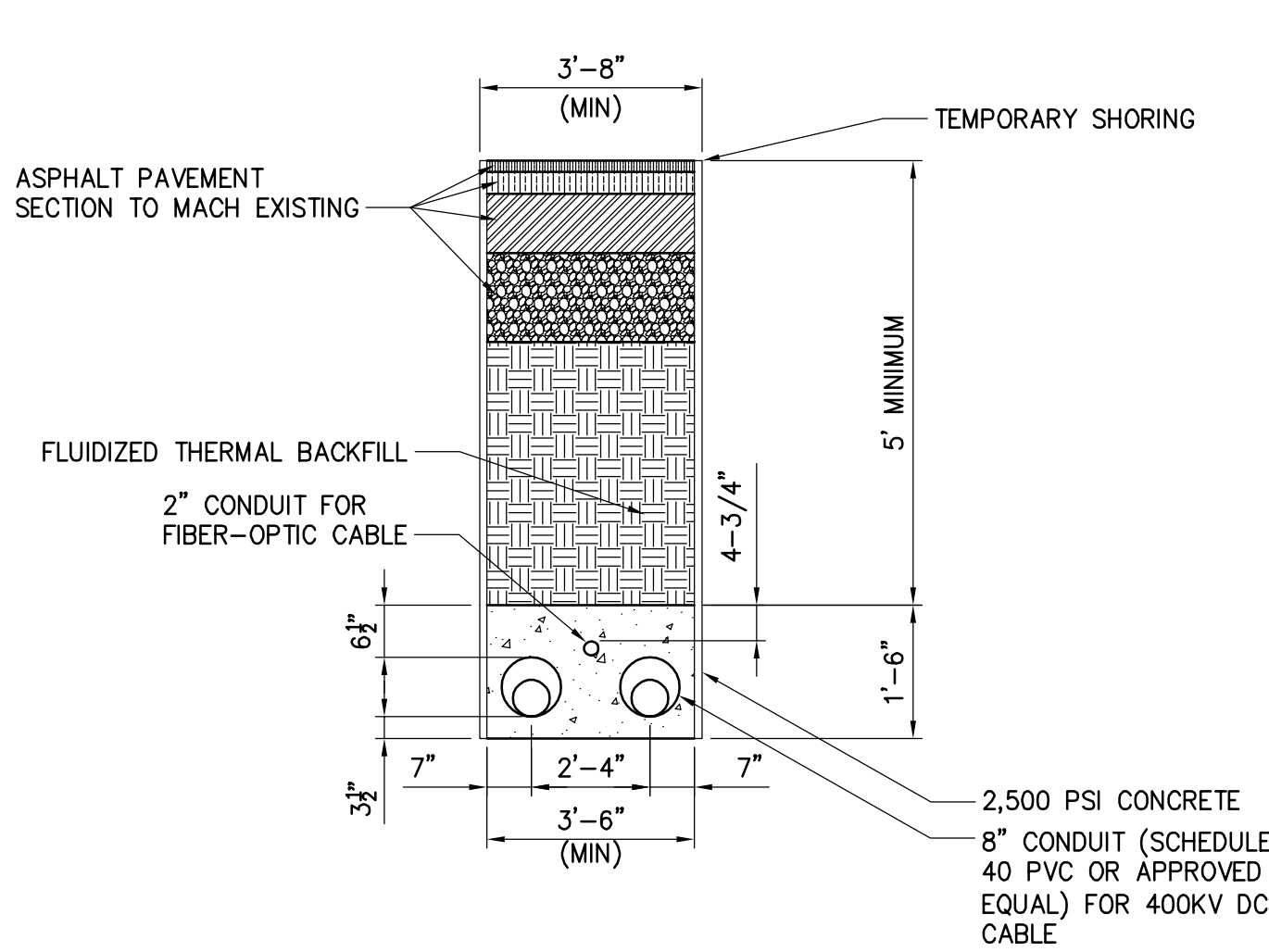
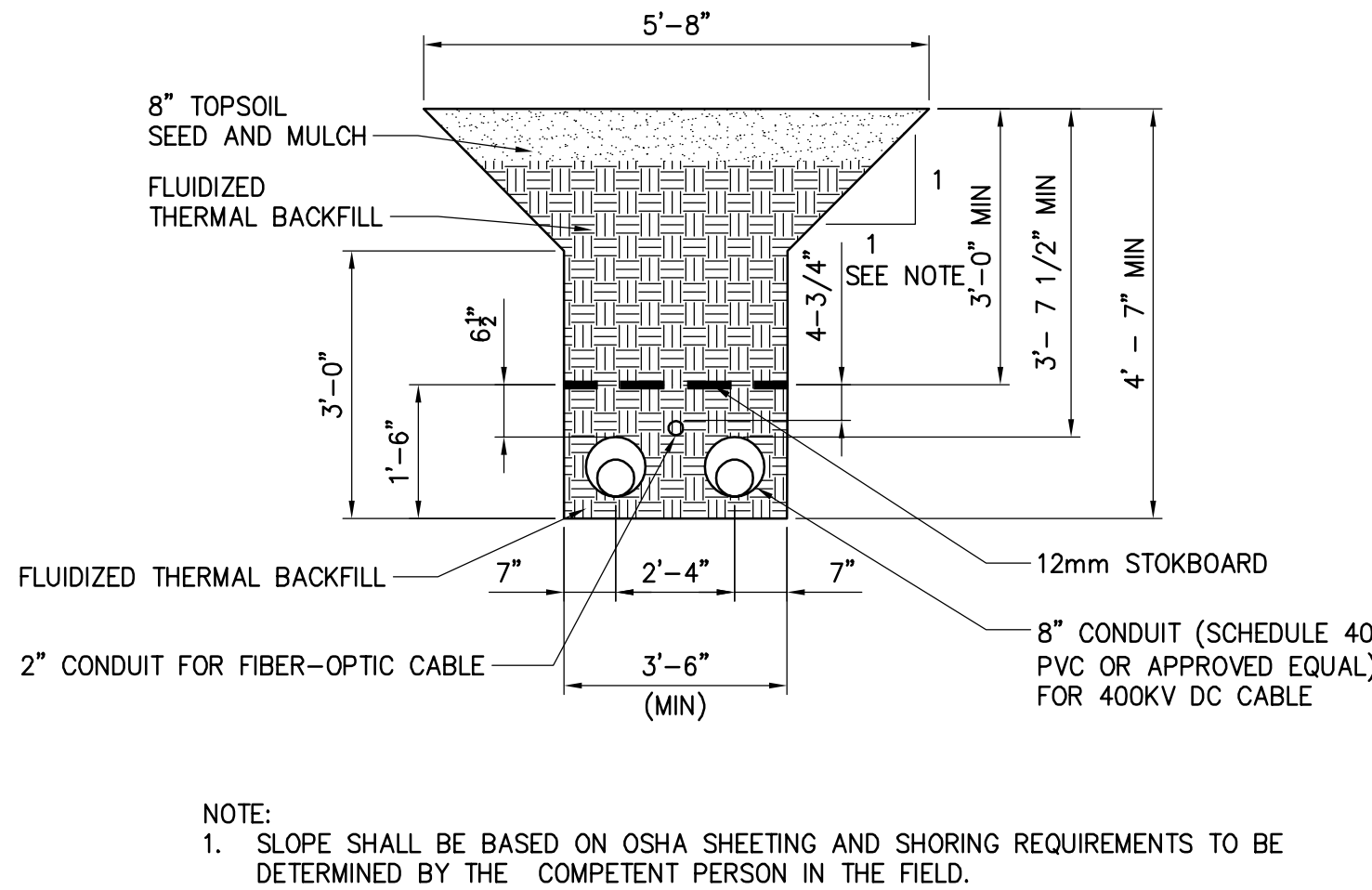
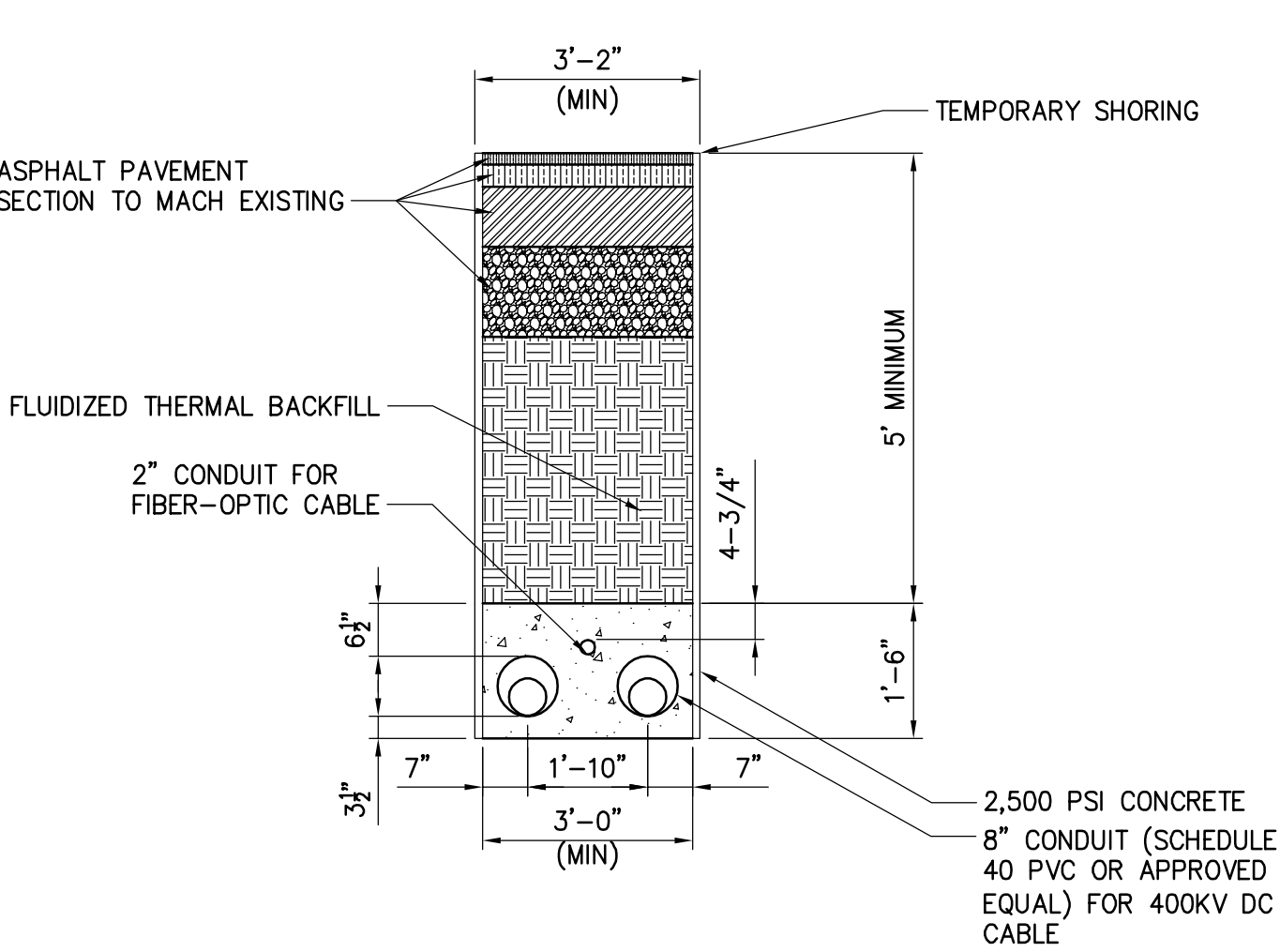
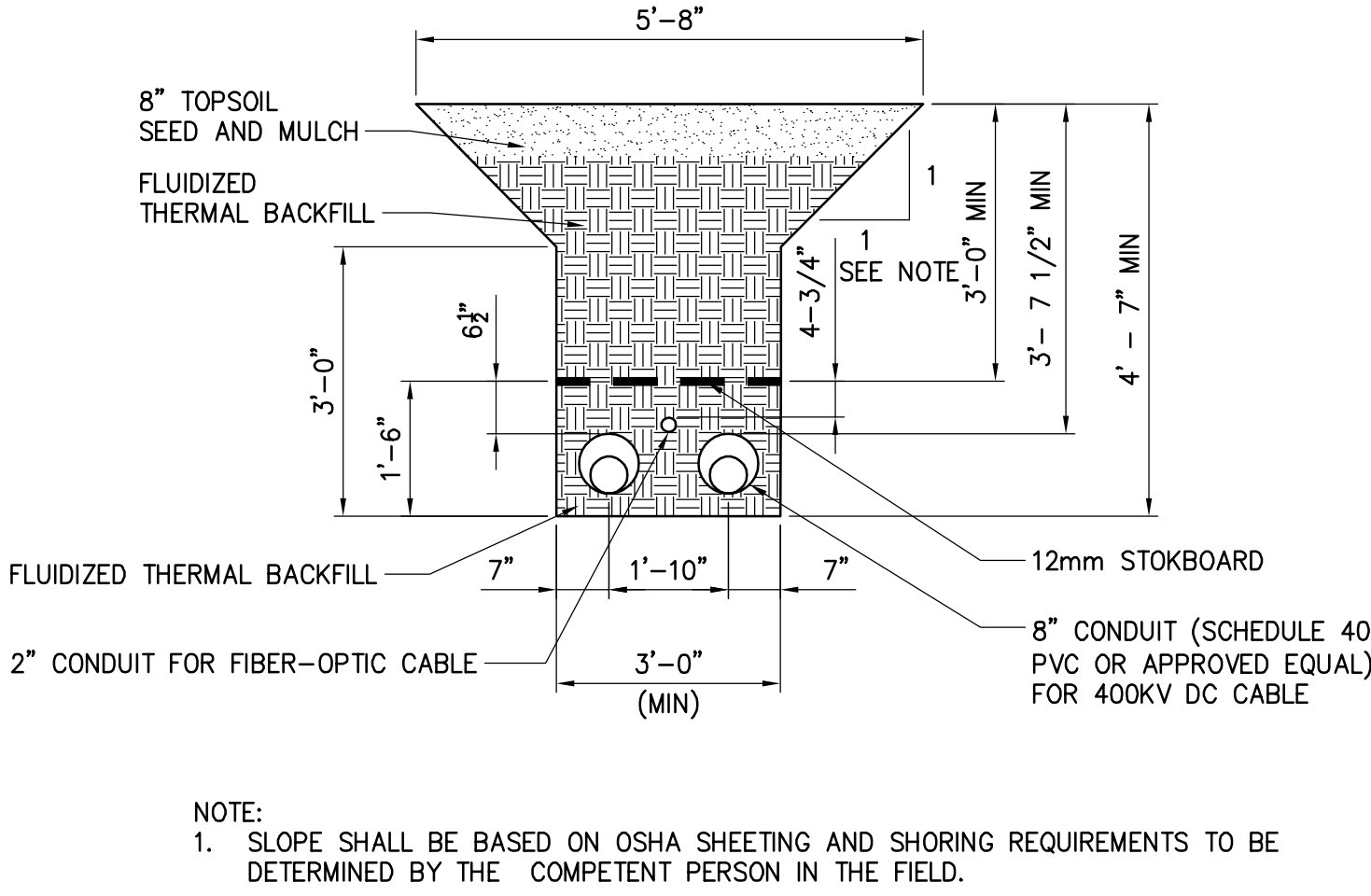
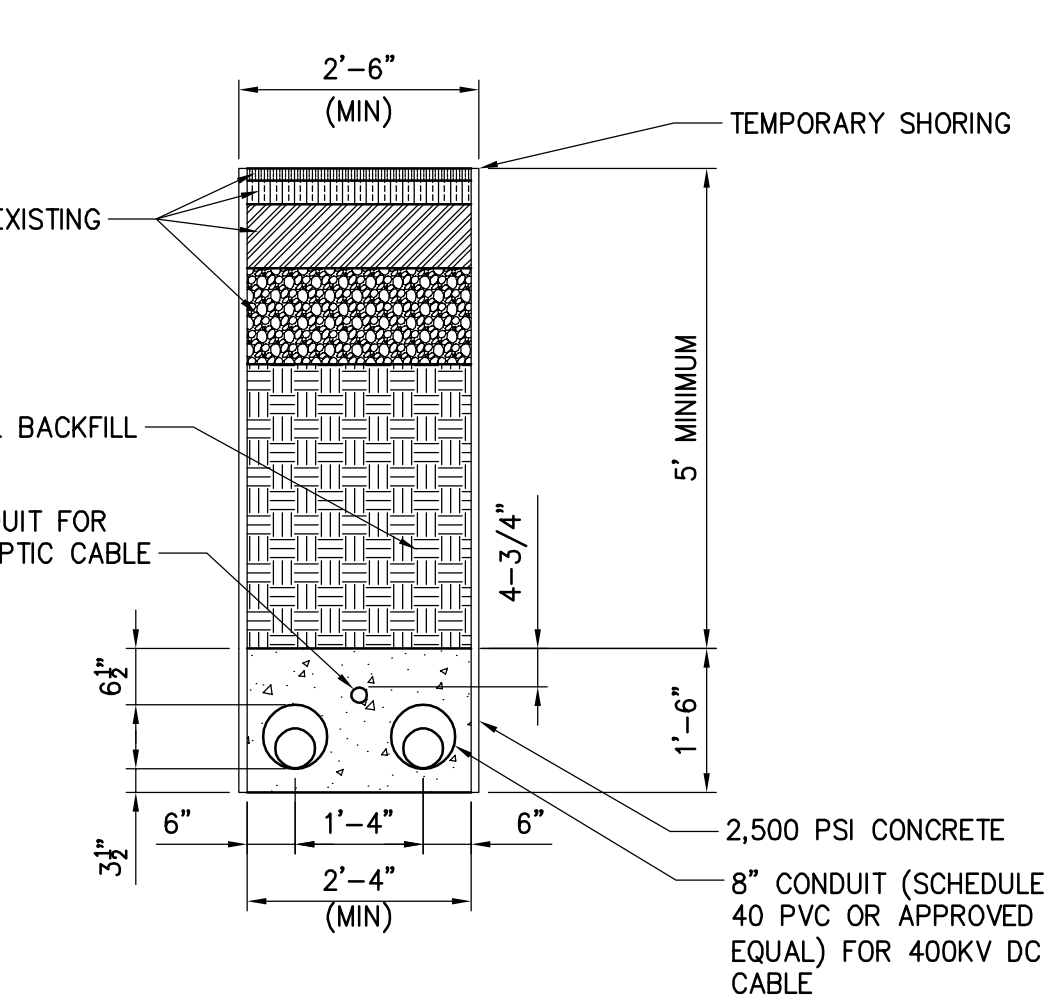
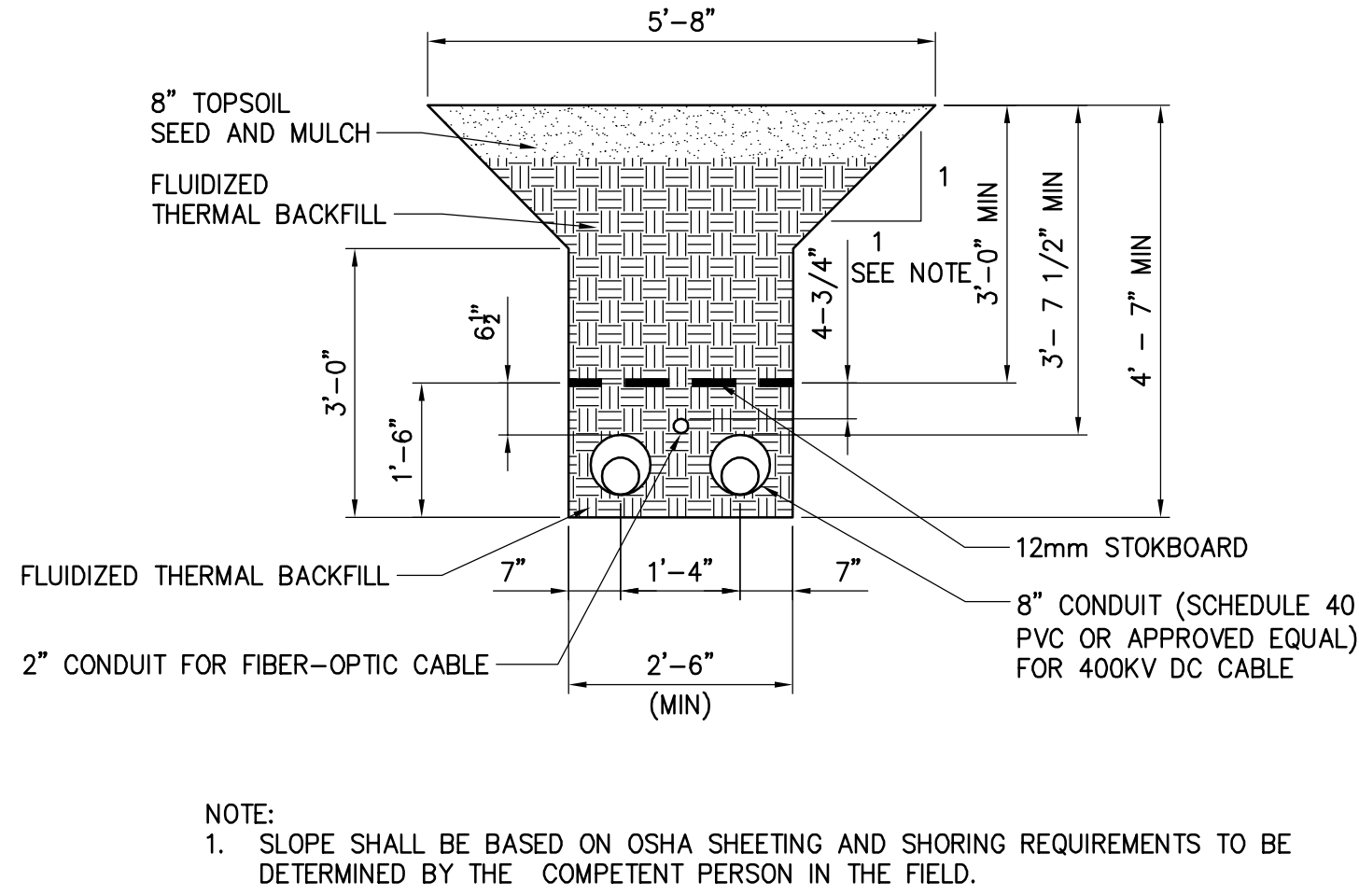
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
F	05/06/2022	PROGRESS SUBMISSION	JM	JR
E	03/17/2022	PROGRESS SUBMISSION	JM	JR
D	02/04/2022	PROGRESS SUBMISSION	JM	JR
C	01/28/2022	PROGRESS SUBMISSION	JM	JR
B	12/21/2021	PROGRESS SUBMISSION	JM	JR
A	11/02/2021	30% SUBMISSION	JM	JR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
EROSION AND SEDIMENT CONTROL DETAILS

DRAWN BY: SKB DESIGNED BY: SKB APPROVED BY: JPR SCALE: AS NOTED DATE: 05/06/2022

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-602
DATE	05/06/2022
SH.NO.	XXX OF XXX

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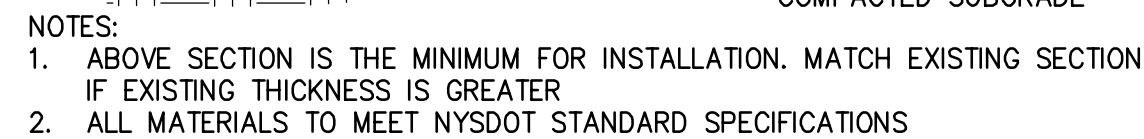
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE 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.

D	04/28/2022	60% SUBMISSION	JM	JR	
C	03/04/2022	PROGRESS SUBMISSION	JM	JR	
B	02/23/2022	PROGRESS SUBMISSION	JM	JR	
A	01/28/2022	30% SUBMISSION	JM	JR	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

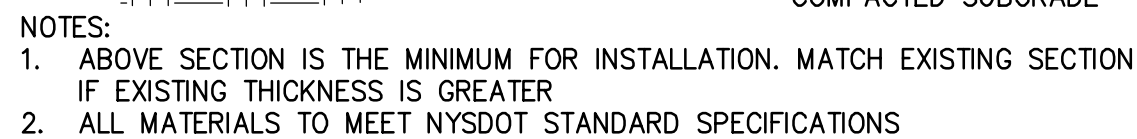
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
TRENCH CROSS SECTION DETAILS

DRAWN BY:	xxx	DESIGNED BY:	xxx	APPROVED BY:	xxx	SCALE	AS NOTED	DATE	03/04/2022
						REV. NO.	x	SH. NO.	xxx OF xxx

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-621



| x



| x



	X
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	X
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NOTES:

¹ ESTIMATE CBR IN THE FIELD USING A DYNAMIC CONE PENETROMETER.

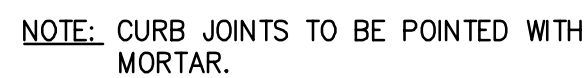
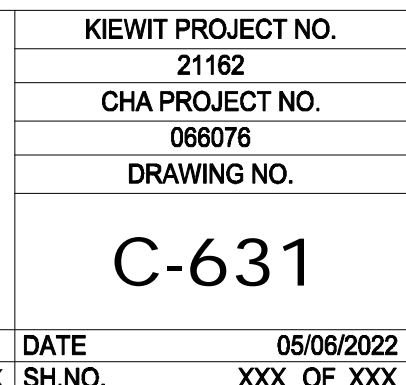
² SEPARATOR GEOTEXTILE FABRIC SUCH AS MIRAFI 140N SHOULD BE INCLUDED BENEATH GEOGRID LAYER ON COHESIVE SUBGRADE

³ RIP RAP TO BE NYSDOT LIGHT STONE FALL

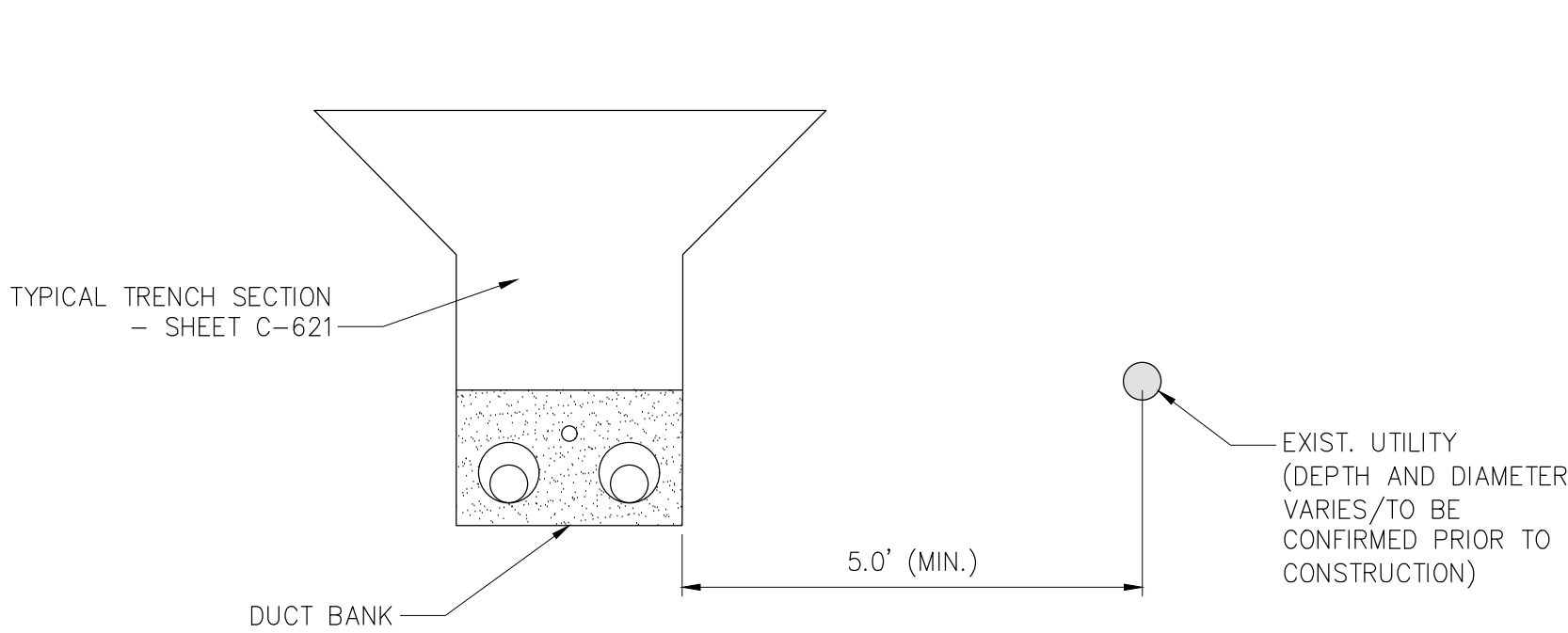
⁴ A LAYER OF #57 STONE MAY BE REQUIRED ON TOP OF GEOTEXTILE TO PREVENT DAMAGING OR PUNCHING OF THE FABRIC.

⁵ GEOGRID AND GEOTEXTILES SHOULD BE INSTALLED PER MANUFACTURES SPECIFICATION INCLUDING OVERLAP AND EDGE DETAILS

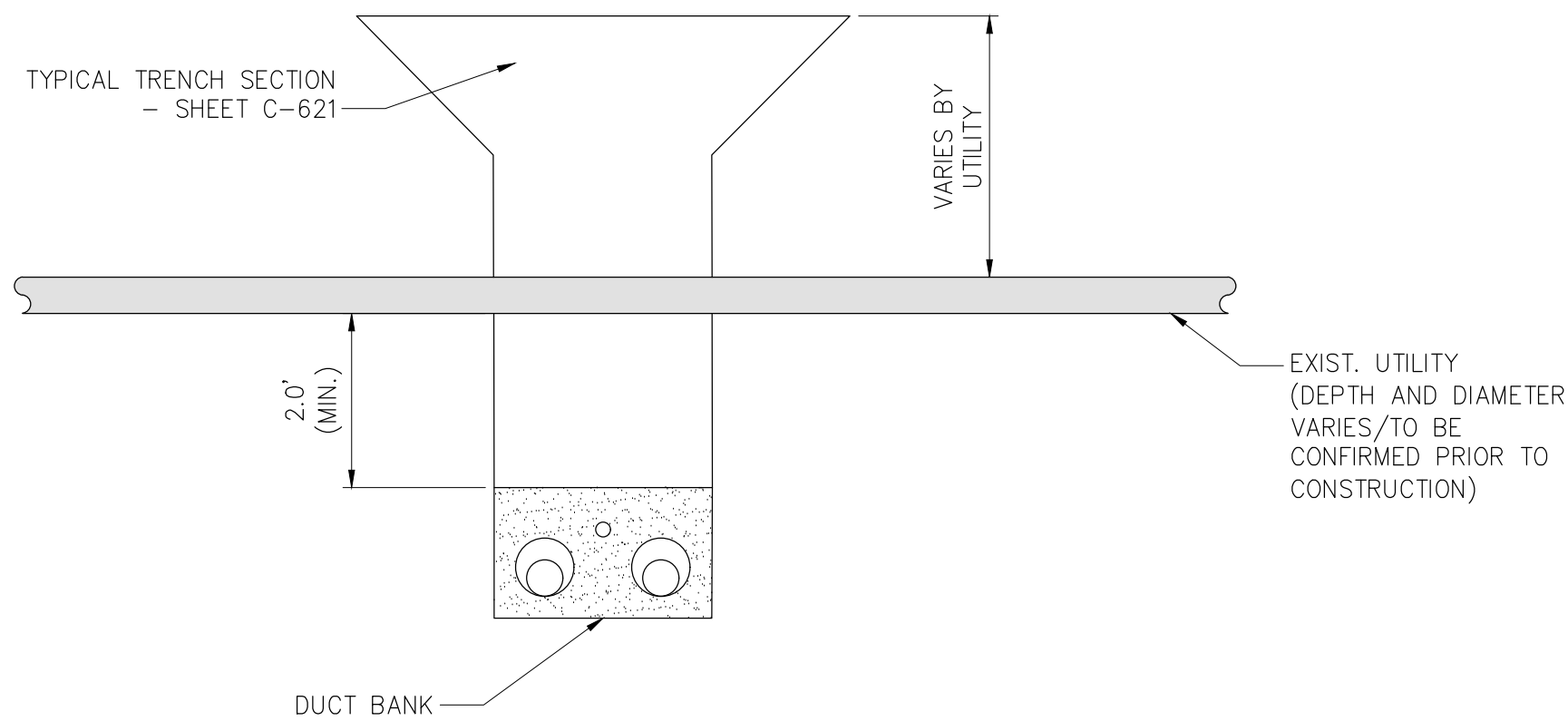
NOTE:
ACCESS ROAD SECTIONS PER KIEWIT GEOTECHNICAL

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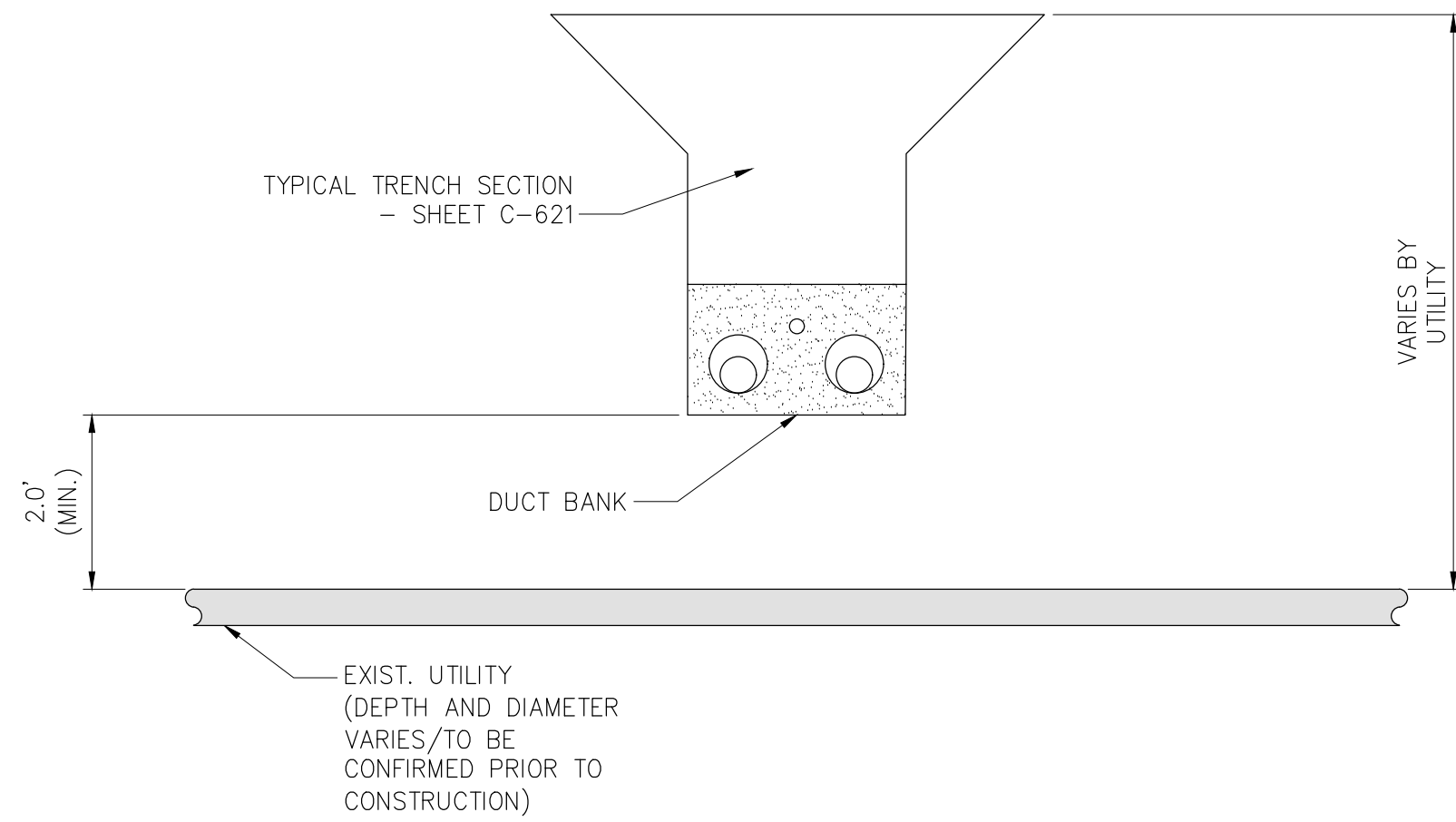
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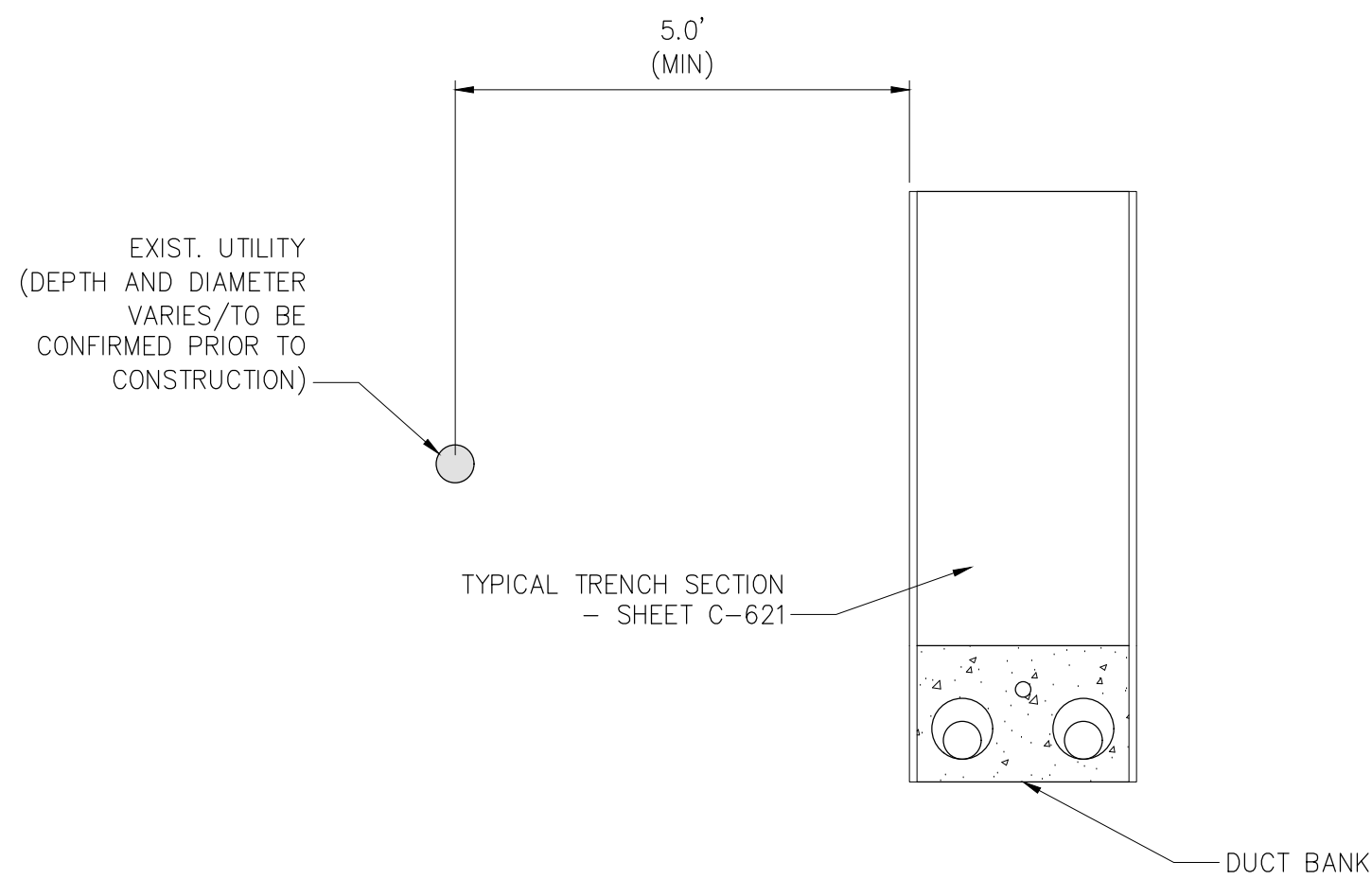
1 OPEN TRENCH - HORIZONTAL SEPARATION
NOT TO SCALE



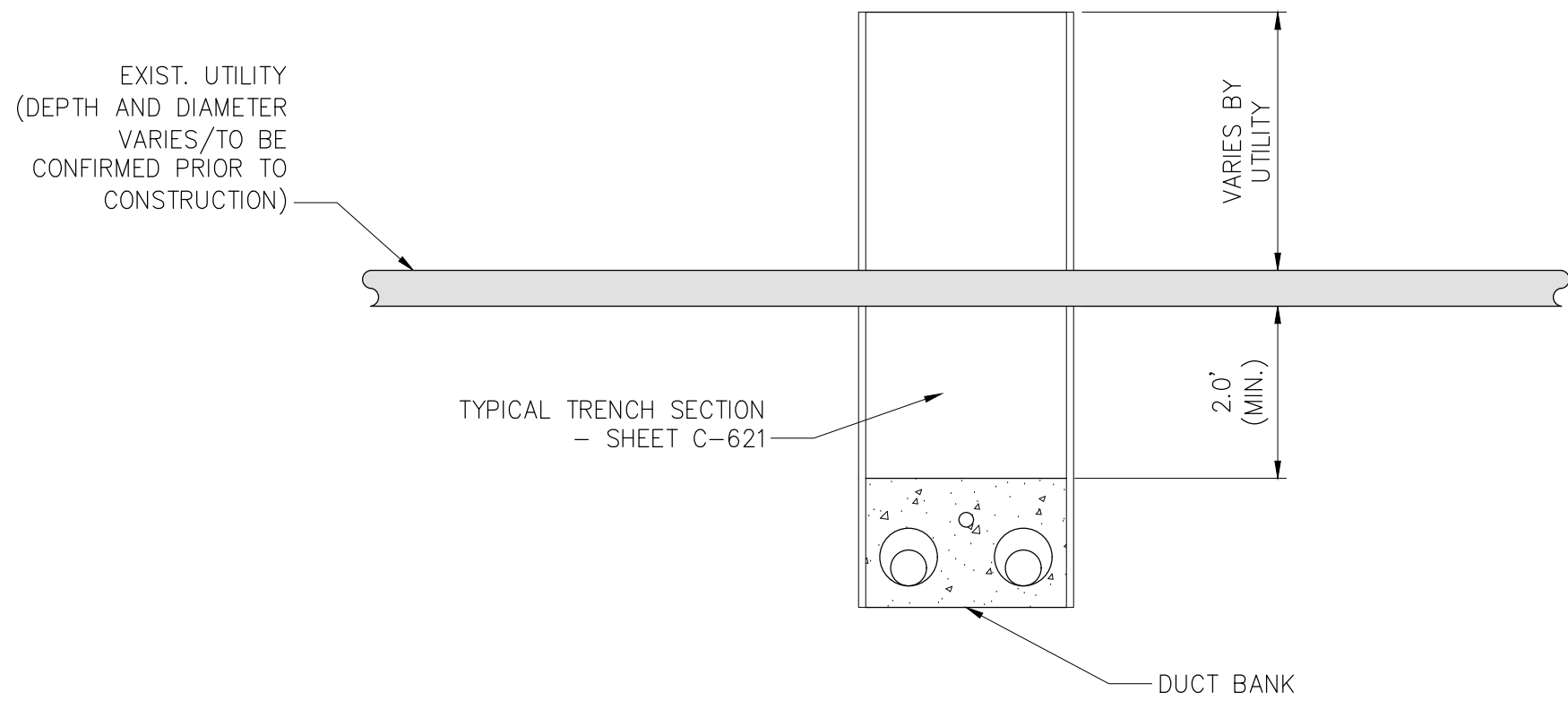
3 OPEN TRENCH - VERTICAL SEPARATION (UNDER)
NOT TO SCALE



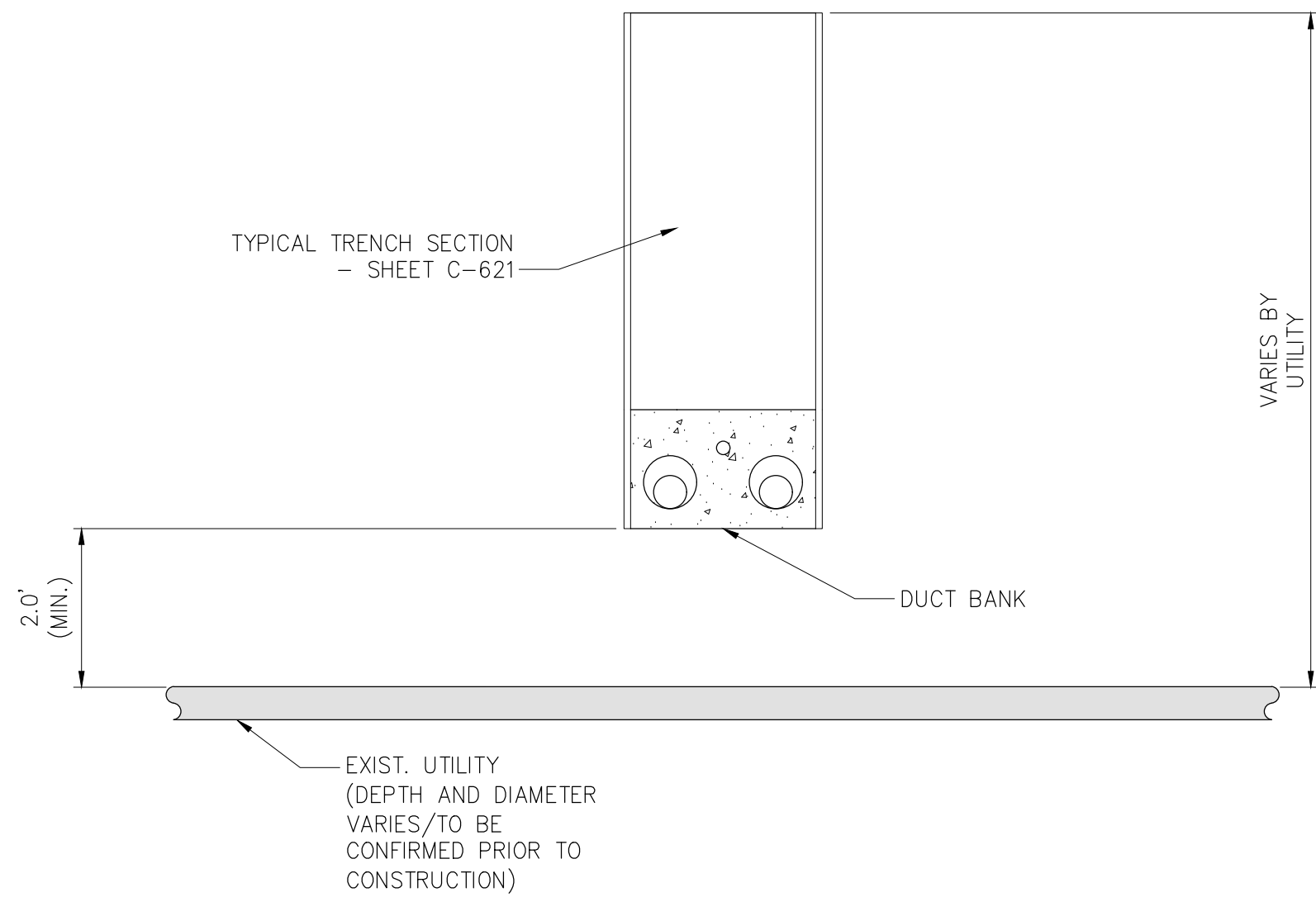
5 OPEN TRENCH - VERTICAL SEPARATION (OVER)
NOT TO SCALE



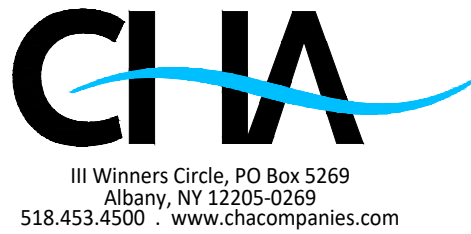
2 TYPICAL DUCTBANK IN ROADWAY - HORIZONTAL SEPARATION
NOT TO SCALE



4 TYPICAL DUCTBANK IN ROADWAY - VERTICAL SEPARATION (UNDER)
NOT TO SCALE



6 TYPICAL DUCTBANK IN ROADWAY - VERTICAL SEPARATION (OVER)
NOT TO SCALE



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G	06/20/2022	PROGRESS SUBMISSION	JM	JR
F	05/06/2022	PROGRESS SUBMISSION	JM	JR
E	03/17/2022	PROGRESS SUBMISSION	JM	JR
D	02/04/2022	PROGRESS SUBMISSION	JM	JR
C	01/28/2022	PROGRESS SUBMISSION	JM	JR
B	12/21/2021	PROGRESS SUBMISSION	JM	JR
A	11/02/2021	30% SUBMISSION	JM	JR
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
UTILITY TYPICAL
SEPARATION DETAILS

DRAWN BY:	wso	DESIGNED BY:	wso	APPROVED BY:		SCALE	AS NOTED	DATE	06/20/2022
						REV. NO.	A	SH.NO.	XXX OF XXX

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-901