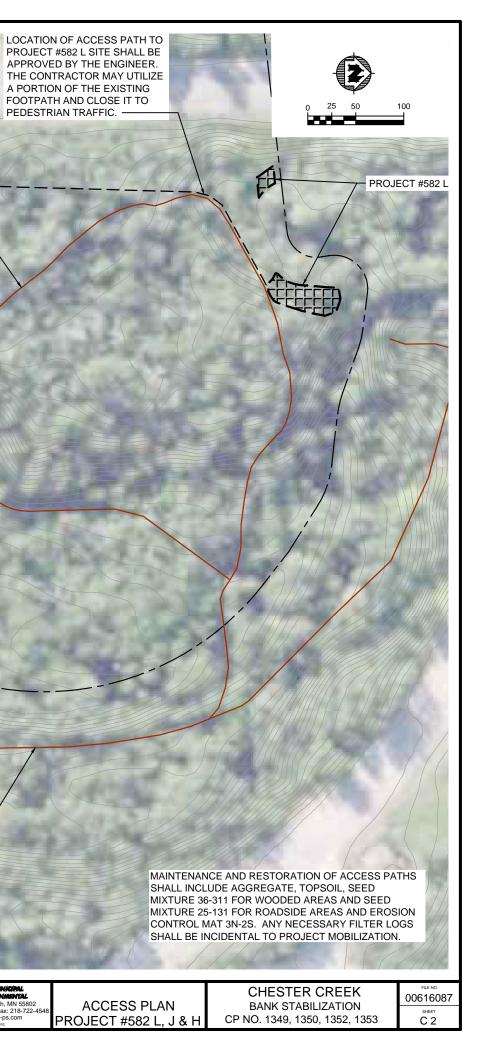


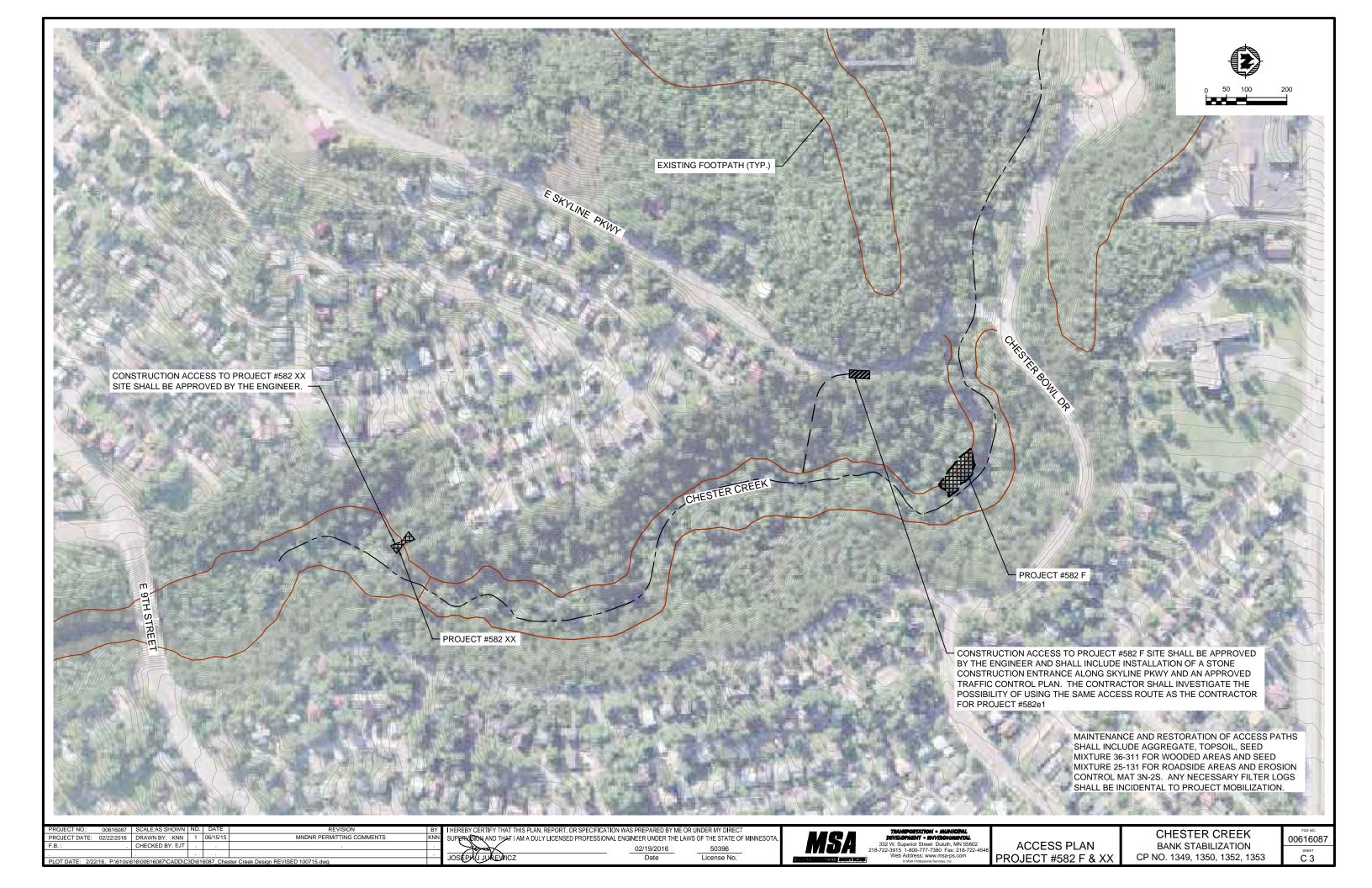
LOCATION OF ACCESS PATH TO PROJECT #582 J SI SHALL BE APPROVED BY THE ENGINEER. THE CONTRACTOR MY UTILIZE A PORTION OF THE EXIS FOOTPATH AND CLOSE IT TO PEDESTRIAN TRAFFIC	TING	AT REINFOOD AVE. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL CONSISTENT WITH MINNESOTA MUTCD LAYOUT 39, RIGHT LANE CLOSURE, MULTI-LANE UNDIVIDED ROAD. SUBMIT TRAFFIC CONTROL PLAN TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. EXISTING FOOT PATH (TYP.)
CONSTRUCTION STAGING AREA SHALL BE WITHIN CITY MAINTENANCE YARD. (LIMITS AS DIRECTED BY THE ENGINEER)	PROJECT #582 J	
	PROJECT #582 J	
		CILIES CREIT
	LOCATION OF ACCESS PATH TO PROJECT #582 H SITE SHALL BE APPROVED BY THE ENGINEER AND MAY UTILIZE THE EXISTING FOOTPATH. THE CONTRACTOR SHALL MAKE PROVISIONS TO LEAVE THE FOOTPATH OPEN TO THE PUBLIC AND PROVIDE FOR SAFE PASSAGE.	EXISTING FOOTPATH (TYP.)

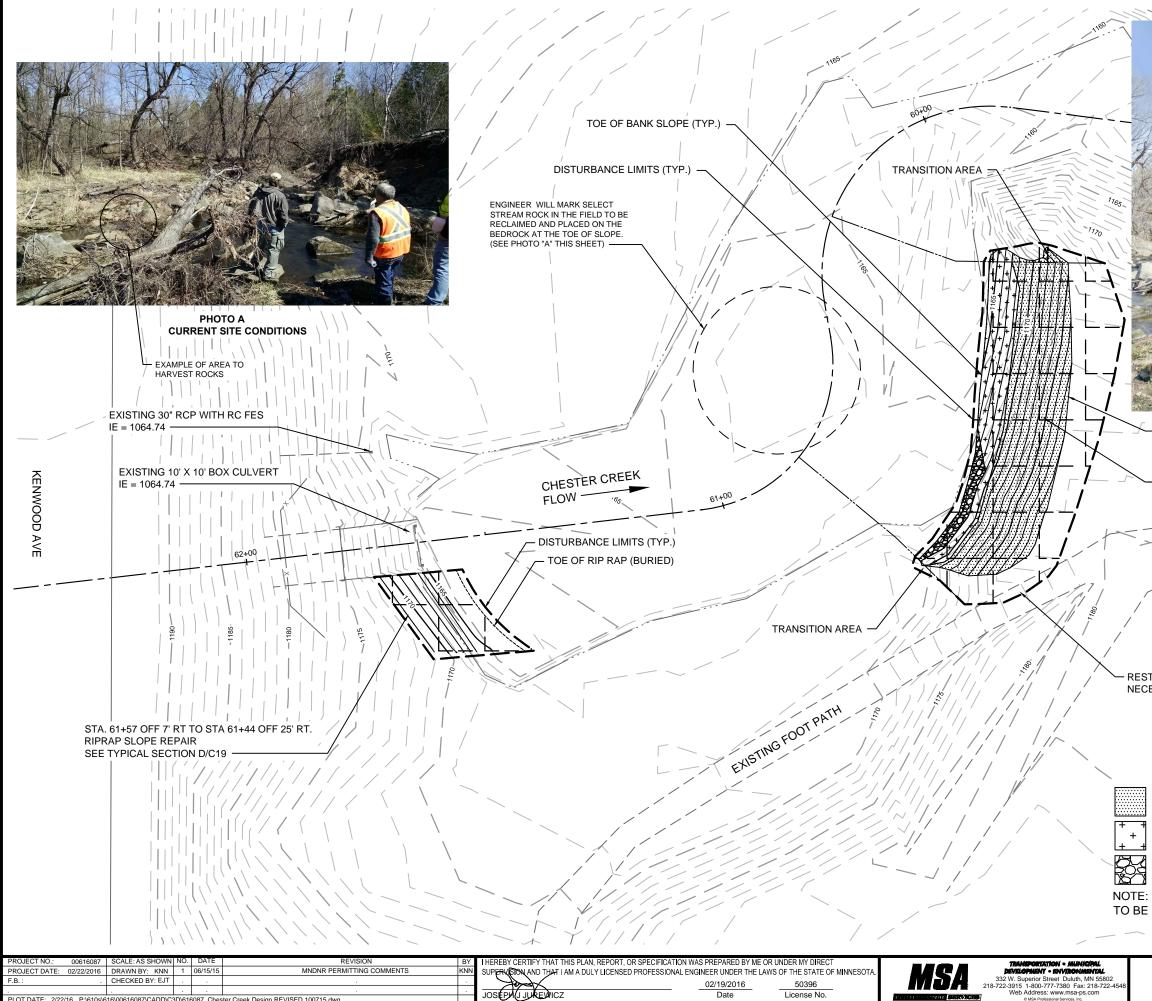
INSTALL STONE CONSTRUCTION ENTRANCE AT KENWOOD AVE. CONTRACTOR SHALL

PROJECT #582 H

PROJECT NO .:	00616087	SCALE: AS SHOWN	NO.	DATE	REVISION	BY	I HEREBY CERTIFY THAT THIS PLAN, REPORT, OR SPECIFICATIO	WAS PREPARED BY ME	OR UNDER MY DIRECT		TRANSPORTATION . MUNICIPAL
PROJECT DATE:	02/22/2016	DRAWN BY: KNN	1	06/15/15	MNDNR PERMITTING COMMENTS K	KNN	SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL	ENGINEER UNDER THE L	AWS OF THE STATE OF MINNESOTA.	MSA	DEVELOPMENT · ENVIRONMENTAL
F.B. :		CHECKED BY: EJT					And	02/19/2016	50396		332 W. Superior Street Duluth, MN 55802
								Date	License No.		218-722-3915 1-800-777-7380 Fax: 218-722-4548 Web Address: www.msa-ps.com
PLOT DATE: 2/22/1	16, P:\610s\61	16\00616087\CADD\C3	3D\616	6087_Ches	ster Creek Design REVISED 100715.dwg		JOSEPHUJUREWICZ	Dale	License no.	PROFISSIONAL SERVICE	© MSA Professional Services, Inc.







	(111)	
	EX. OF BEDROCK AT THE TOE	20 OF SLOPE.
РНОТО В		
CURRENT SITE CO	D STA. 60+29 OFF 27' RT VRSS - TYPE B	
TORE EXISTING FOOT PATH ESSARY AFTER SLOPE REP   		
EROSION CONTROL	МАТ	До
V.R.S.S.		
RIP RAP		
ENGINEER SHALL MAR REMOVED FROM THE E	K SELECT TREES IN THE FIELD TH EDGE OF THE FAILURE.	IAT ARE
PLAN SHEET REACH 582 L	CHESTER CREEK BANK STABILIZATION CP NO. 1349, 1350, 1352, 1353	FILE NO. 00616087 SHEET C 4

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EXISTIN

IE = 1119.87 SEE STORM SEWER IMPACT ENERGY DISSIPATOR DETAIL ON SHEET C 18

C

NATURAL TRANSITION TO CHESTER CREEK DO NOT DISTURB

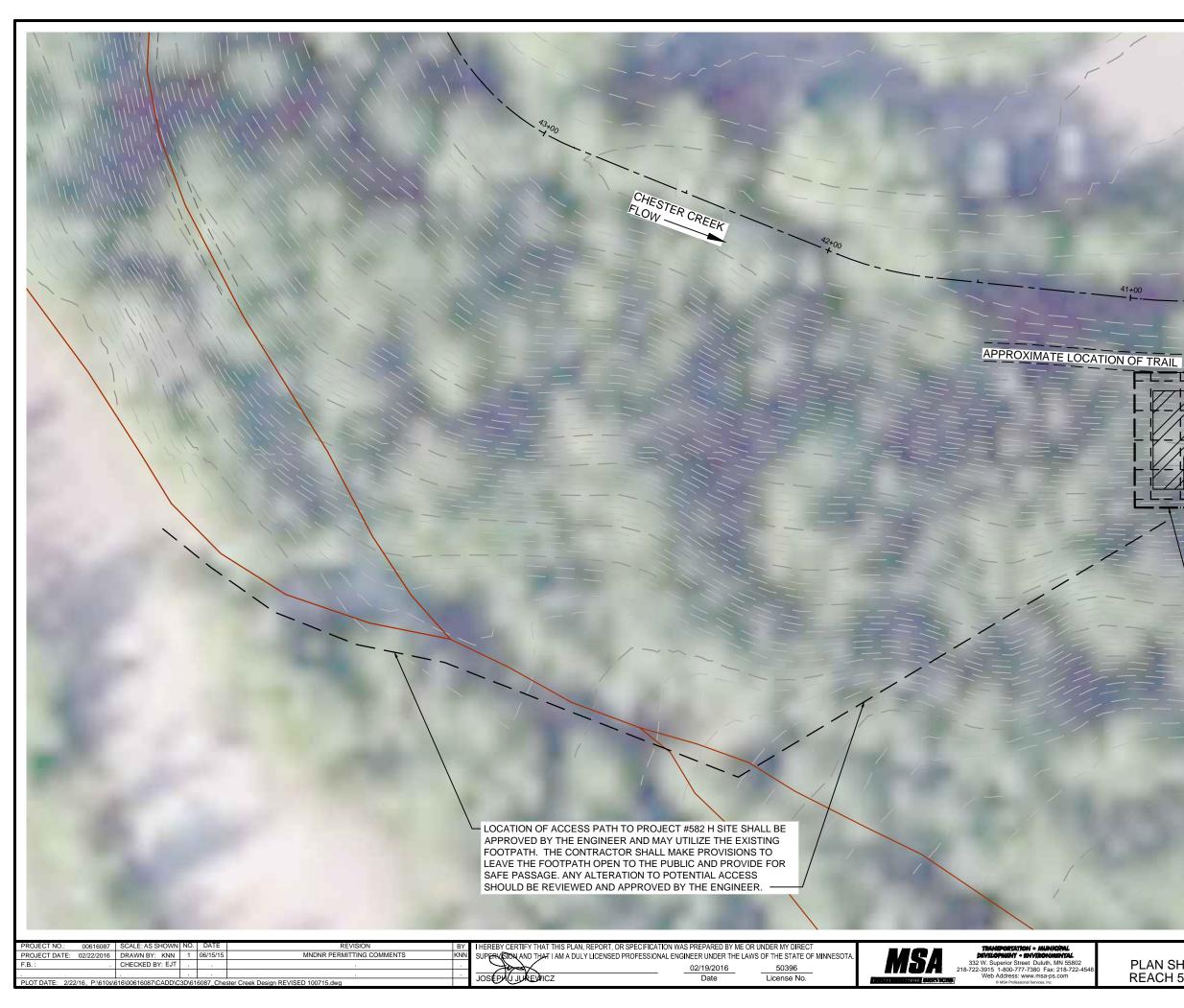
EXISTING 36" PLASTIC IE = 1121.46' EXISTING 6" PERFORATED CMP DIRECTLY ABOVE EX. 36" STORM - INSTALL RIP RAP SLOPE STABILIZATION TO ELEV. 1121 USE MNDOT TYPE III RIP RAP MAX SLOPE 2H:1V

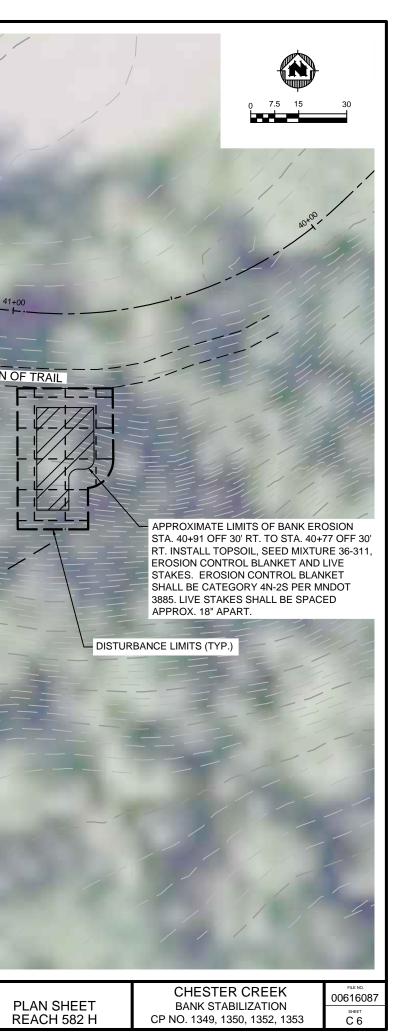
- INSTALL TOPSOIL, SEED MIXTURE 36-311, EROSION CONTROL BLANKET CATEGORY 4N-2S PER MNDOT 3885 AND LIVE STAKES SPACED 18" APART.

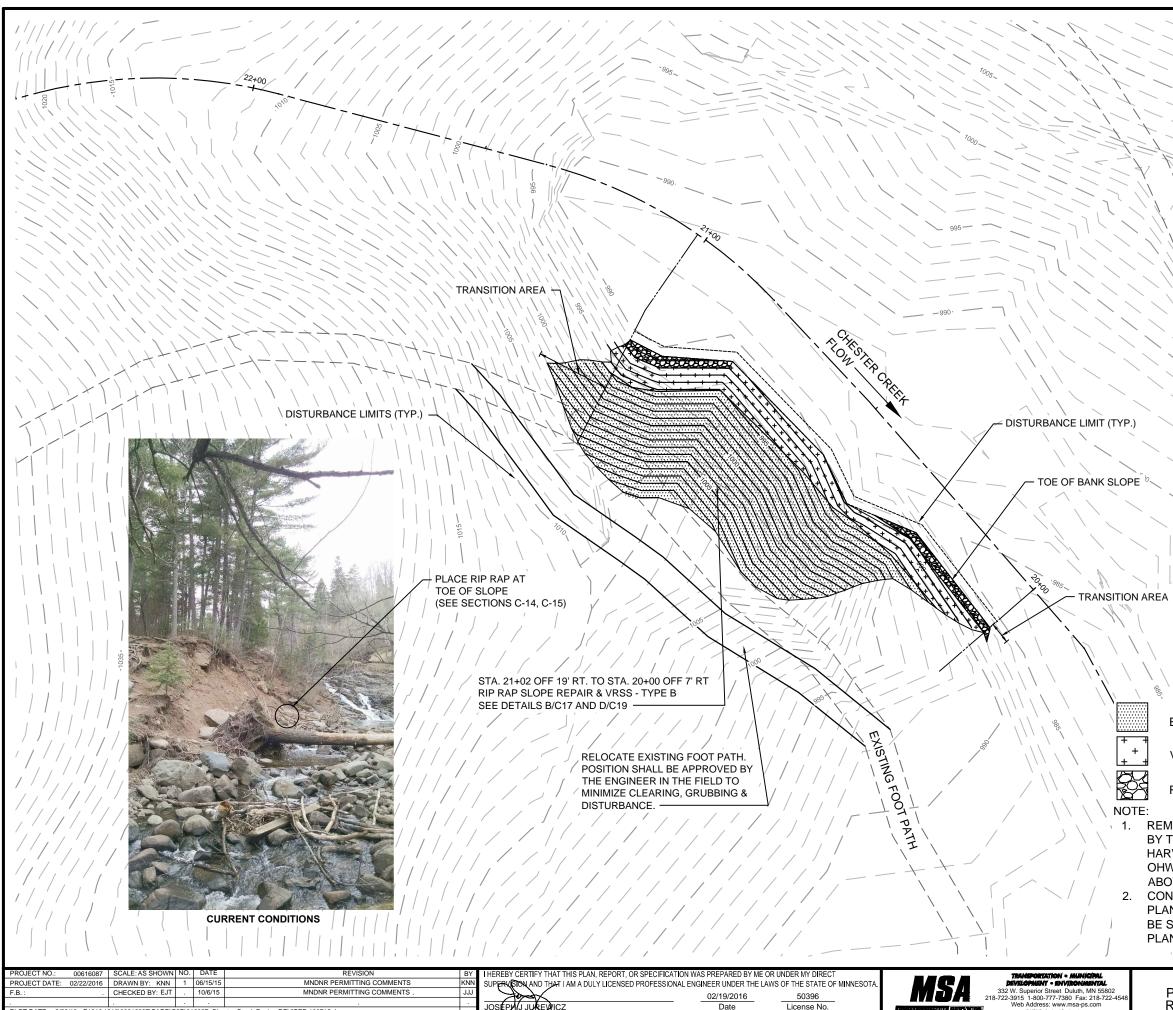
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EXISTING FOOT PATH		
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BRIDGE		
PLAN SHEET REACH 582 J	CHESTER CREEK BANK STABILIZATION CP NO. 1349, 1350, 1352, 1353	FILE NO. 00616087 SHEET C 5

TO WE THE OPHIC

- DEADFALL & DEBRIS REMOVAL AREA







JOSEPH J JUREWICZ

REVISED 100715 c

Date

License No.

INAL SERVICES

## EROSION CONTROL MAT

V.R.S.S.

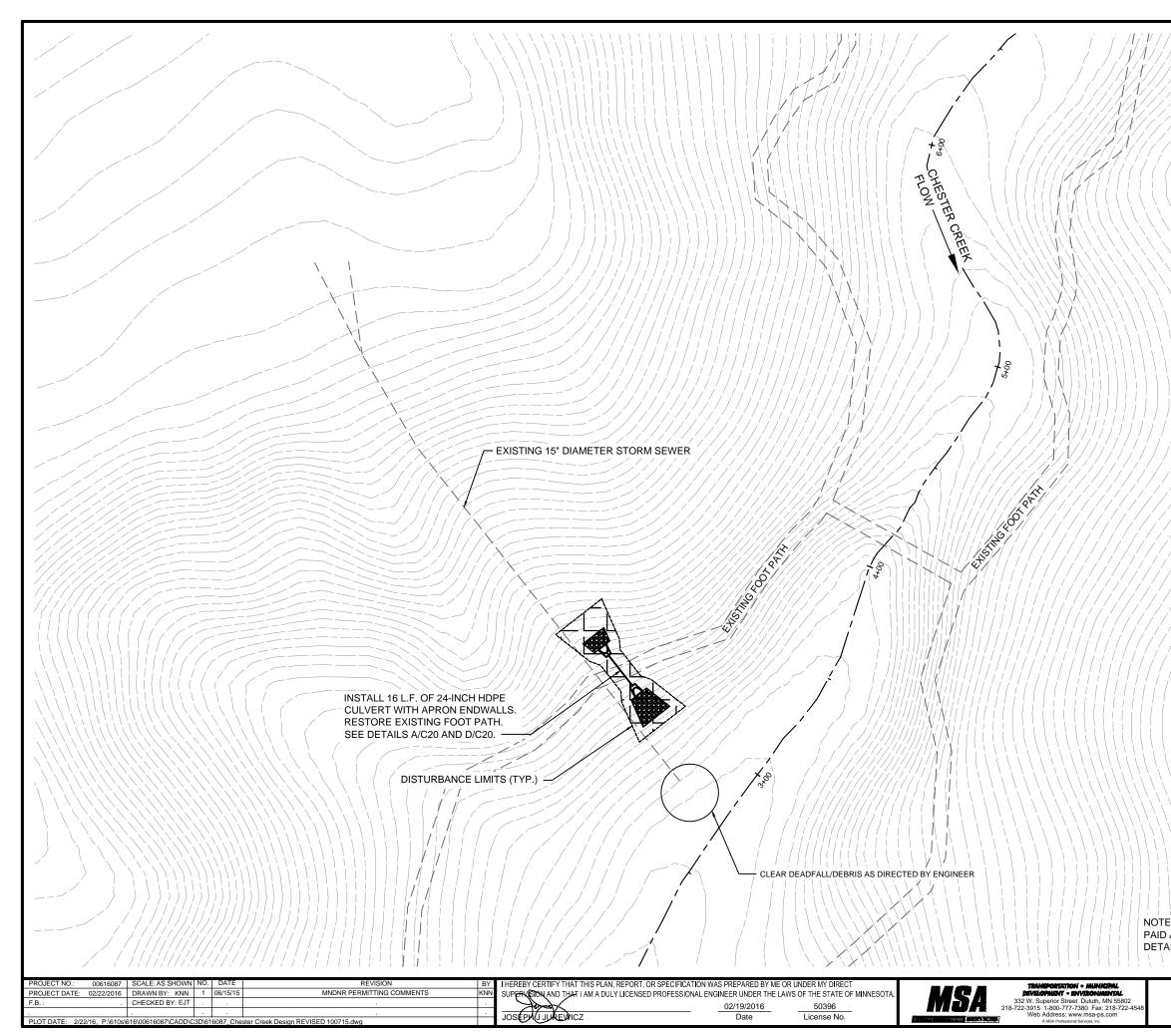
EXISTING FOOT PATH

**RIP RAP** 

REMOVE DEADFALL AND DEBRIS FROM STREAM AS APPROVED BY THE ENGINEER AND DNR STAFF. CONTRACTOR SHALL HARVEST LARGE BOULDERS FROM SLOPE TO BE USED ABOVE OHW TO PROVIDE A TOE FOR V.R.S.S. AND SOIL RESTORATION ABOVE. SEE PICTURE THIS SHEET.

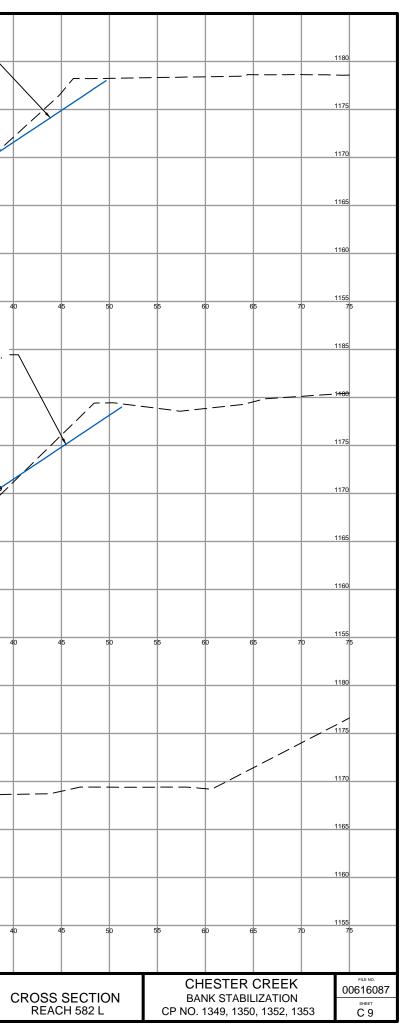
CONTRACTOR SHALL REMOVE AND SALVAGE ANY NEWLY PLANTED TREES IN THE AREA OF WORK. ANY TREES THAT CAN BE SALVAGED CAN BE SUBSTITUTED FOR LIVE STAKES IN PLANTING.  $(\mathbf{1} + \mathbf{1} +$ 

	CHESTER CREEK	FILE NO.
PLAN SHEET	BANK STABILIZATION	SHEET
REACH 582 F	CP NO. 1349, 1350, 1352, 1353	C 7

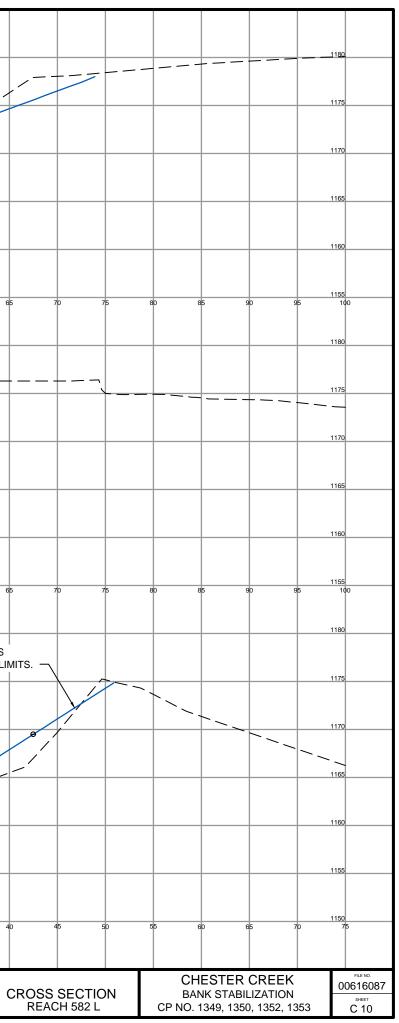


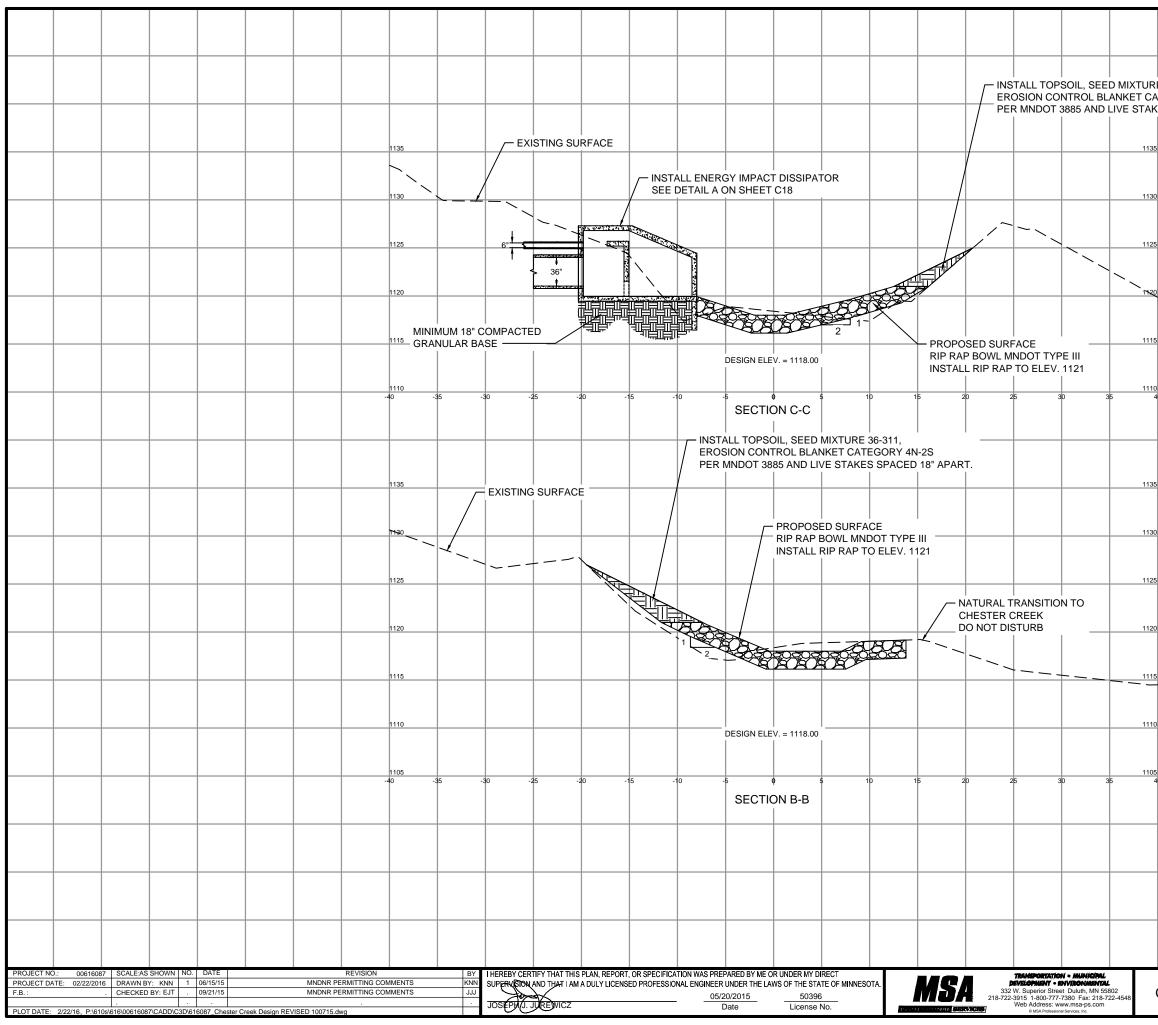
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	TAKE AND OUTFALL WILL BE	
AT THE CONTRACT UNIT PF AILS A/C20 AND D/C20.	RICE FOR RIP RAP CLASS III. PER	
\ <u> </u>		FILE NO.
PLAN SHEET REACH 582 XX	CHESTER CREEK BANK STABILIZATION	00616087 SHEET
REACH 582 XX	CP NO. 1349, 1350, 1352, 1353	C 8

ROJECT NO.: 0061608 ROJECT DATE: 02/22/2010 B. :		(NN 1 (		eek Design REV	MNDNR PE	REVISION RMITTING COM	IMENTS	BY KNN	I HEREBY CERT SUPERVISION / JOSTEPH J. J	ND THAT I AM /	PLAN, REPORT, A DULY LICENSE	OR SPECIFICA D PROFESSIO		ARED BY ME OF JNDER THE LAV D/2015 ate	R UNDER MY D VS OF THE STA 50390 License	ATE OF MINNES		MS/	332 218-722-	TRANSPORTATION EVELOPMENT • E N. Superior Stree 3915 1-800-777- Web Address: w	t Duluth, MN 55 7380 Fax: 218-7	802 22-4548
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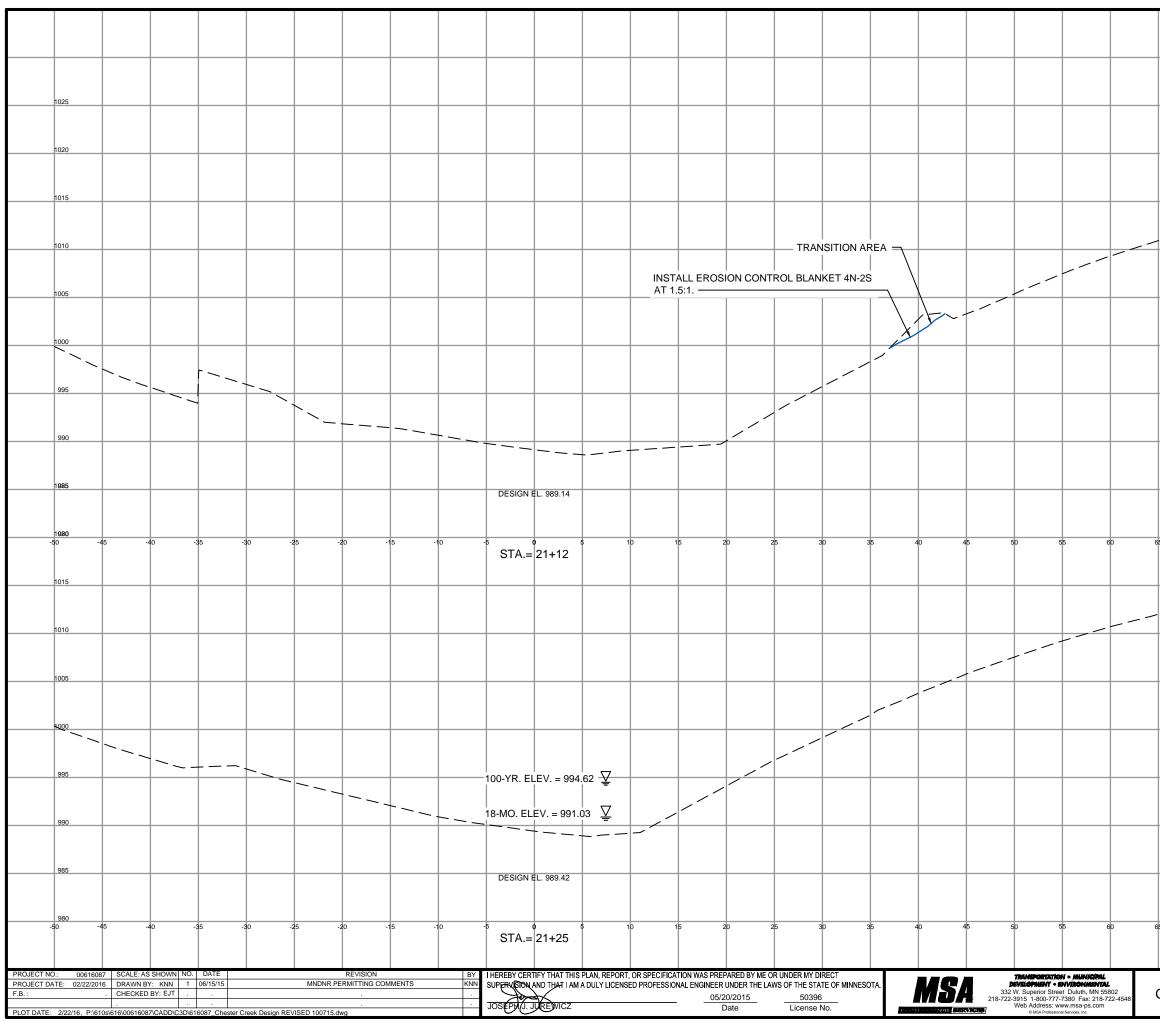
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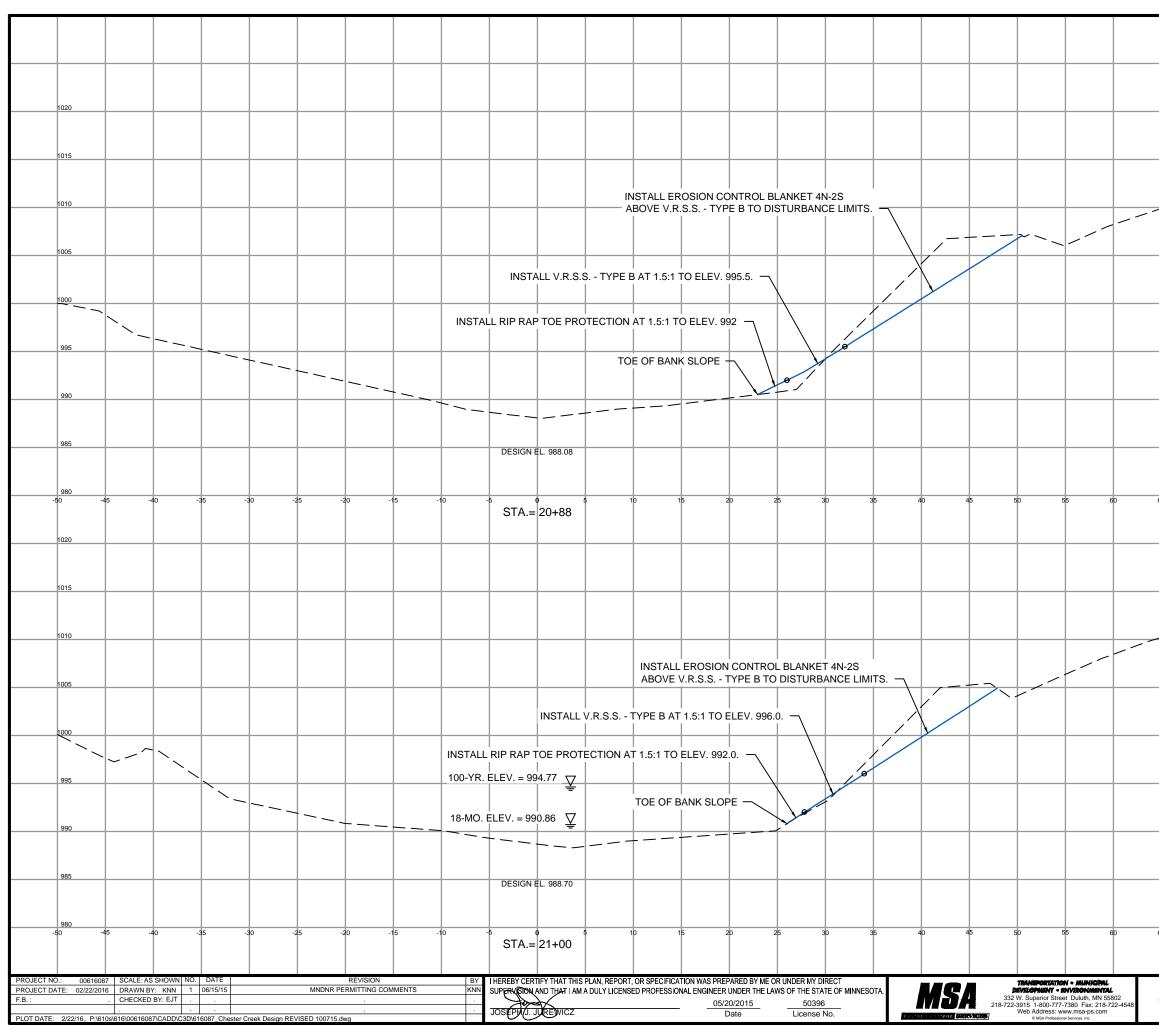


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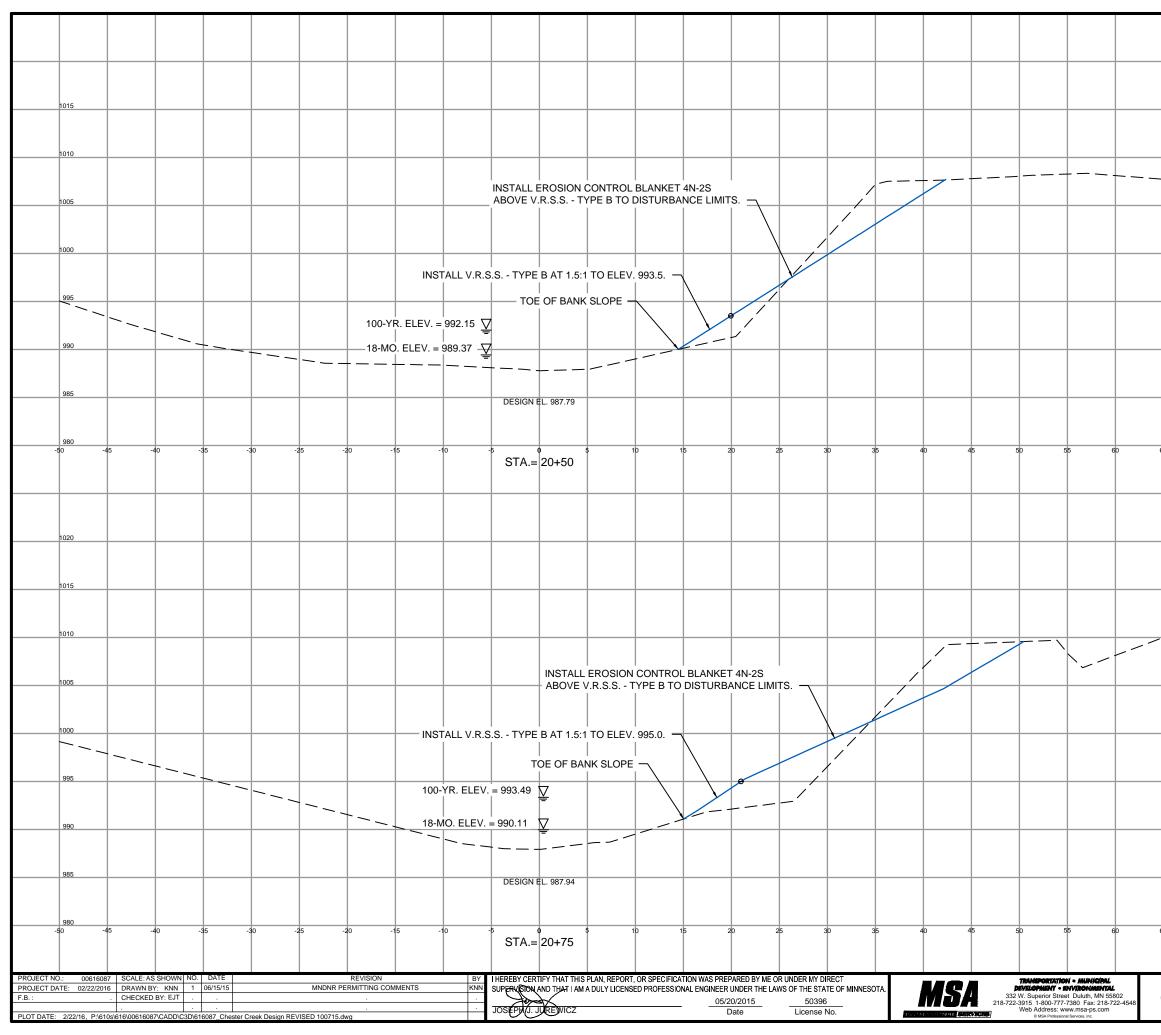
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PROJECT NO.: 00616087 SCALE: AS SHOWN NO. DATE	REVISION B	I HEREBY CERTIFY THAT THIS PLAN, REPORT, OR SPECIFICATION WAS PREPARED BY ME OR UNDER MY DIRECT   SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESC   JOSEPH/J. JUREWICZ 05/20/2015 50396   License No.	TA. <b>TRANSPORTATION - MUNICIPAL</b> <b>DEVISIONMENT - ENVIRONMENTAL</b> 332 W. SUPPORT Street DUINH, MN 55802 218-722-3915 1-800-777-7380 Fax: 218-722-4548 Web Address: wave measure com Web Address: wave measure com	CHESTER CREEK 000	FILE NO.



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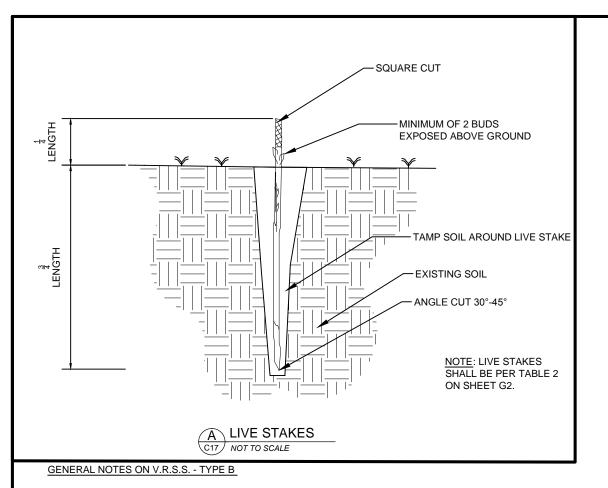


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1. THE ENGINEER MUST BE NOTIFIED AT LEAST 3 DAYS PRIOR TO INSTALLATION AND MUST BE ON SITE DURING INSTALLATION.

2. THE BOTTOM OF V.R.S.S. STABILIZATION - TYPE B SHALL BE AT THE BANKFULL ELEVATION OR AS DIRECTED BY THE ENGINEER. THE TOP OF V.R.S.S. STABILIZATION - TYPE B SHALL BE ABOVE THE 100-YR ELEVATION AND AS DIRECTED BY THE ENGINEER.

3. LAY NATURAL FIBER MATTING ON BOTTOM OF THE BENCH, OVERLAPPING ADJACENT MATTING BY 1 FOOT. THE OUTER EXPOSED FIBER MATTING LAYER OF EACH SOIL LIFT SHALL BE GEOCOIR/DEKOWE 900 WOVEN COCONUT FIBER MESH, BIOD-MATTM 90, OR AN ENGINEER APPROVED EQUIVALENT.

4. THE INNER LAYER OF FIBER MATTING FOR EACH SOIL LIFT SHALL BE BIONET C125BN OR AN ENGINEER APPROVED EQUIVALENT AND SHALL BE LAID BENEATH THE TOPSOIL LAYER. LAY THE INNER LAYER OF BIONET ON TOP OF NATURAL FIBER MATTING OF EACH SOIL LIFT. FABRIC SHOULD BE INSTALLED SMOOTH WITH NO UNNECESSARY FOLDS OR WRINKLES. STAKE THE SHOREWARD END OF THE FIBER MATTING IN PLACE WITH WOODEN STAKED SPACED EVERY THREE FEET AS SHOWN ON THE DRAWINGS.

5. THE FIRST 6 TO 8 INCHES OF THE BOTTOM SOIL LIFT SHALL BE FILLED WITH GRANULAR MATERIAL EXCAVATED FROM THE STREAM BED. THE TOP 6 TO 8 INCHES ON THE FRONT OF THE SURFACE LAYER SHOULD BE COMPRISED OF TOPSOIL MIX AS SHOWN ON THE DRAWINGS.

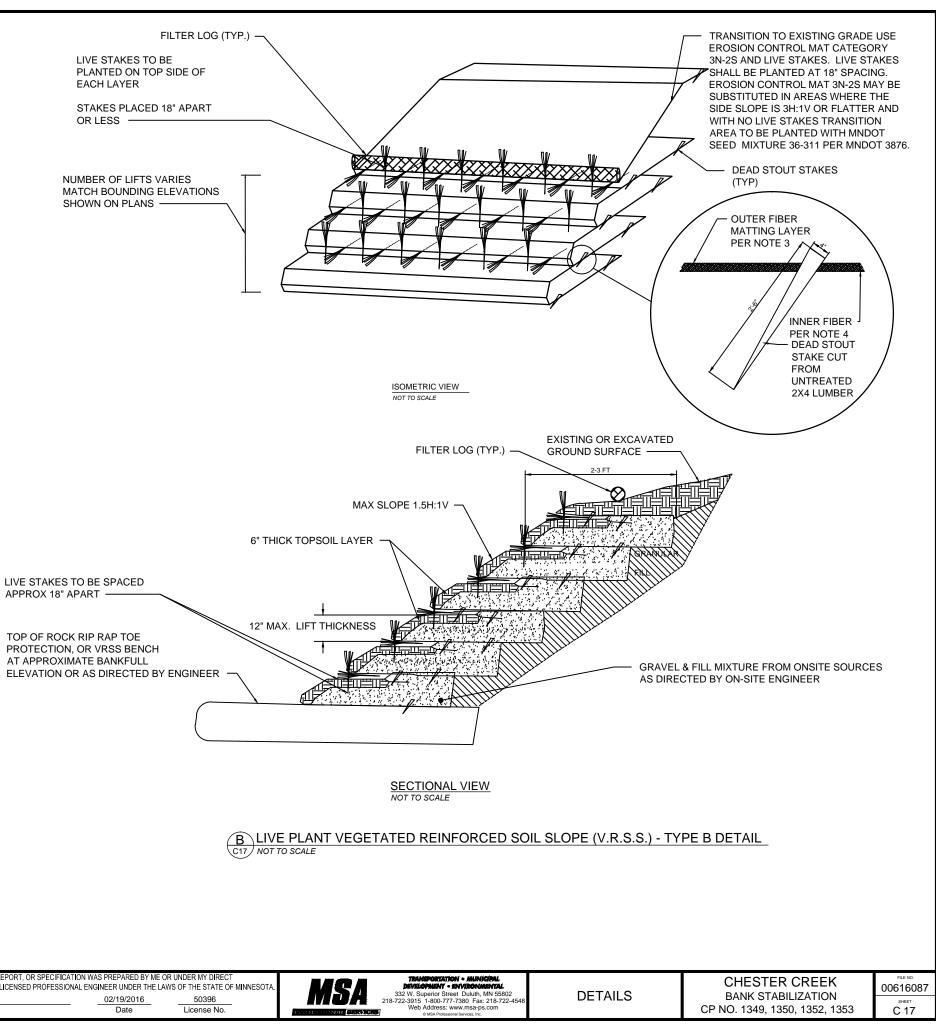
6. THE TOPSOIL LAYER SHALL BE SEEDED WITH MNDOT SEED MIXTURE 34-361 PER MNDOT 3876 AT 0.7 POUNDS PER 1,000 SQUARE FEET OF LIFT SURFACE AREA AS SHOWN ON THE DRAWINGS.

7. FOLD THE FIBER MATTING OVER THE FILL MATERIAL AND STAKE IN PLACE SO THE FABRIC IS TAUT AND SMOOTH WITH NO UNNECESSARY FOLDS OR WRINKLES. BACKFILL BEHIND THE BOTTOM SOIL LIFT WITH GRANULAR FILTER MATERIAL TO MEET THE EXISTING SLOPE AS SHOWN ON THE DRAWINGS.

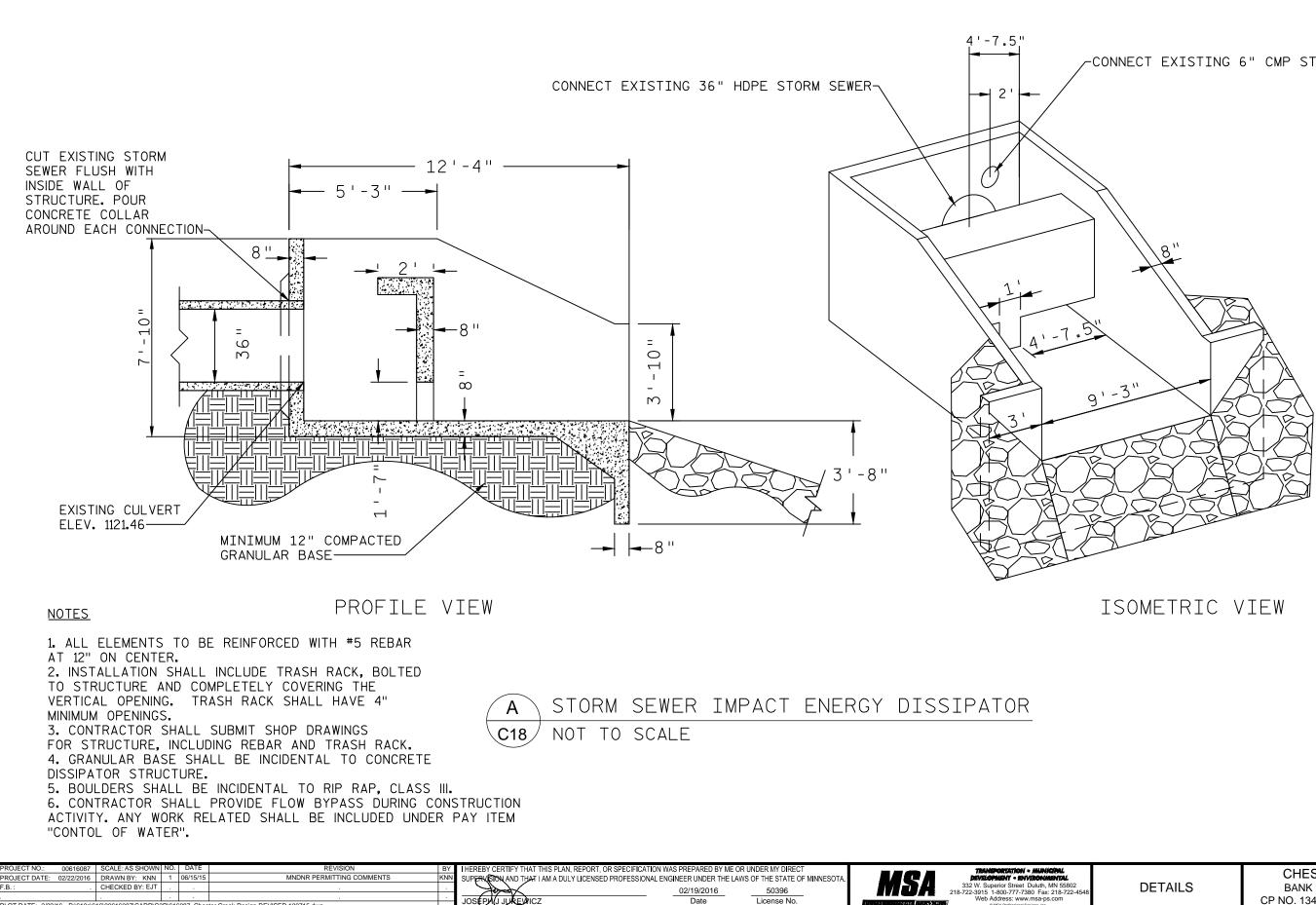
8. LIVE STAKES SHALL BE SPACED APPROXIMATELY 18-INCHES ON CENTER AND SHALL BE SELECTED FROM TABLE 2 ON SHEET G2.

9. V.R.S.S. - TYPE B SHALL BE MEASURED FOR PAYMENT BY SQUARE FOOT OF FACE (SFF) WHICH SHALL BE MEASURED HORIZONTALLY (AVERAGE OF THE TOP AND TOE OF V.R.S.S.) AND VERTICALLY FROM THE BOTTOM OF THE FIRST LIFT TO THE TOP OF THE LAST LIFT.

10. INSTALLATION OF V.R.S.S. - TYPE B SHALL INCLUDE FILL MIXTURE, OUTER AND INNER FABRIC TYPES SPECIFIED ABOVE, TOPSOIL AND SEED MIXTURE SPECIFIED ABOVE. LIVE STAKES ARE TO BE PAID FOR SEPARATELY.



PROJECT NO.: 00616087	SCALE: AS SHOWN	NO.	DATE	REVISION	BY	IHE	EREBY CERTIFY THAT THIS PLAN, REPORT, OR SPECIFICAT	ON WAS PREPARED BY ME O	R UNDER MY DIRECT		TRANSPORTATION . MUNICIPAL
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02/19/2016

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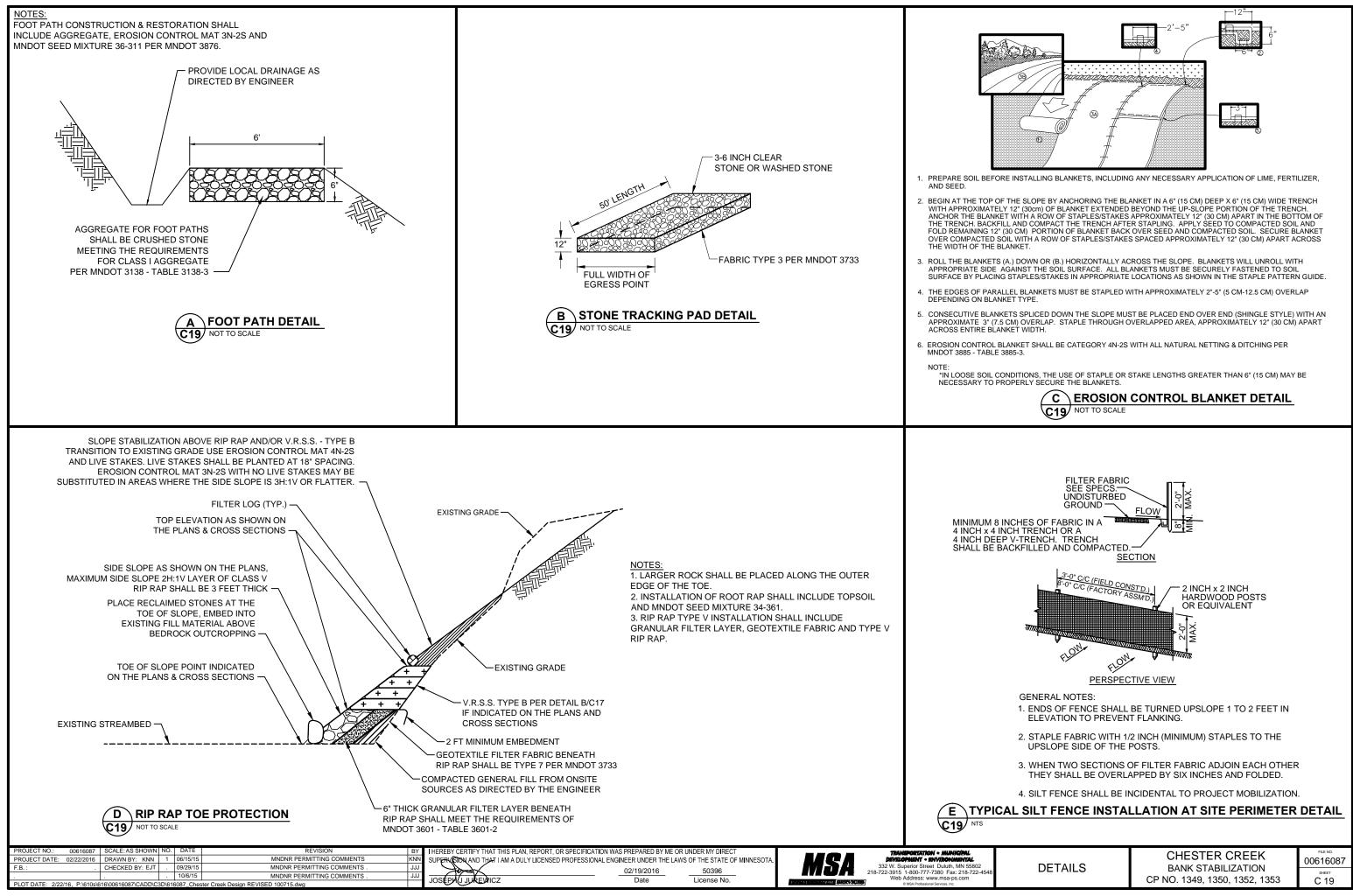
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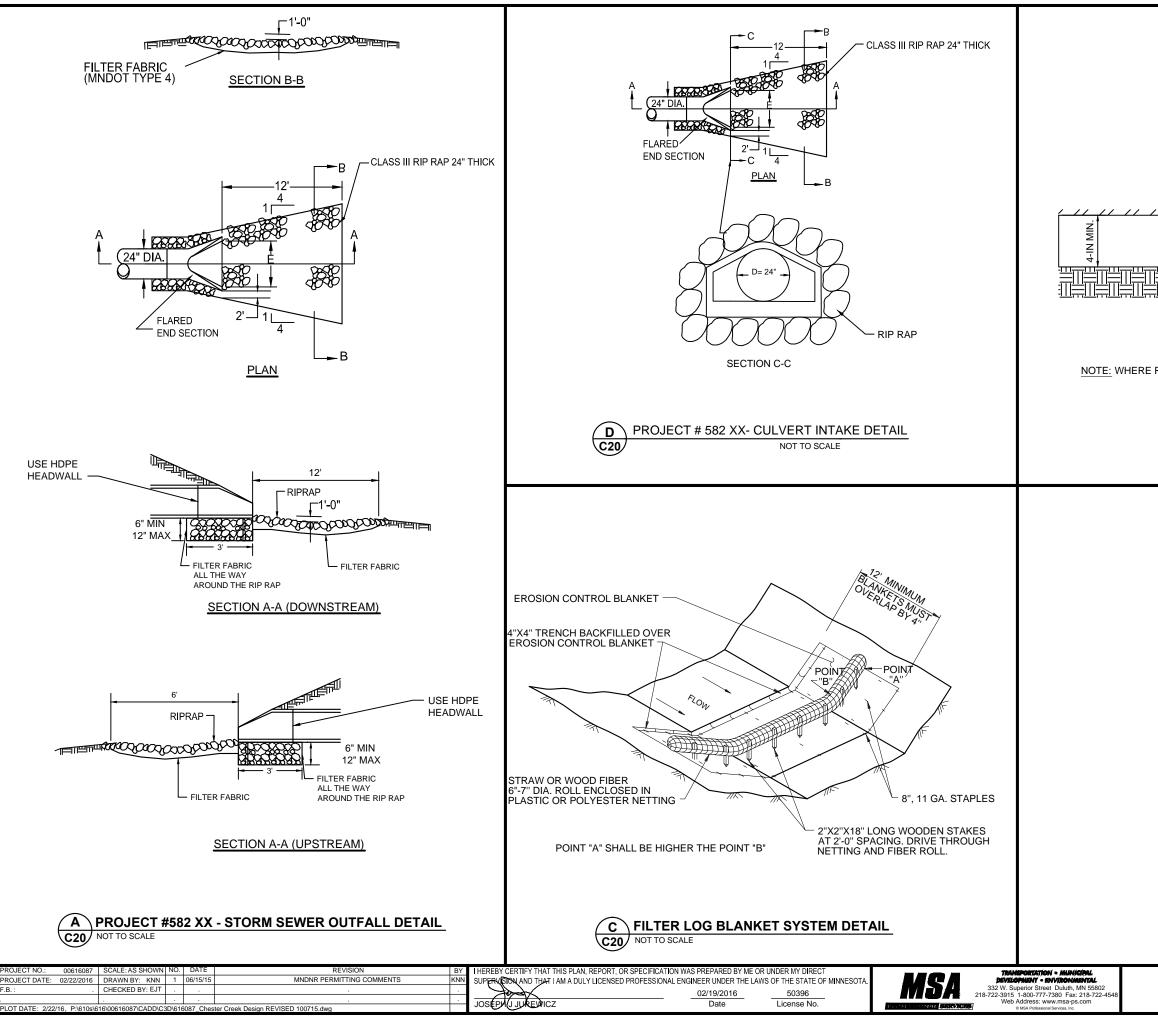
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	CHESTER CREEK	FILE NO. 00616087
DETAILS	BANK STABILIZATION	SHEET
	CP NO. 1349, 1350, 1352, 1353	C 18



250-		-2'-5"	
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DETAILS	CHESTER CREEK	FILE NO. 00616087
DETAILS	BANK STABILIZATION CP NO. 1349, 1350, 1352, 1353	C 19



	OPSOIL UITITITITITI SUBTOPSOIL
	ACEOUS PLUGS ACCORDING TO PLAN. ND SEEDING DETAIL
DETAILS	CHESTER CREEK BANK STABILIZATION

CP NO. 1349, 1350, 1352, 1353

C 20