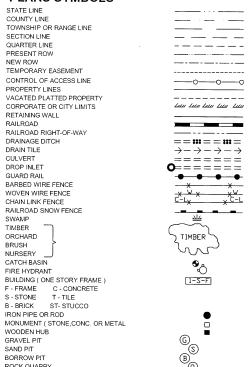
MINNESOTA DEPARTMENT OF TRANSPORTATION LINCOLN COUNTY

CONSTRUCTION PLAN FOR REPLACEMENT OF BRIDGE NO. L2111 WITH 1 LINE OF 16'X5' R.C. BOX CULVERT & 1 LINE OF 16'X6' R.C. BOX CULVERT

LOCATED ON ____ BETWEEN ____ INTERSECTION OF CSAH 8 AND THE EAST COUNTY LINE IN ALTA VISTA TOWNSHIP (Geographic description)

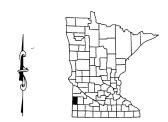
FROM NORTHEAST CORNER OF SEC. 14-T113N-R44W TO NORTH 1/4 CORNER OF SEC. 13-T113N-R44W (Legal description)

PLANS SYMBOLS

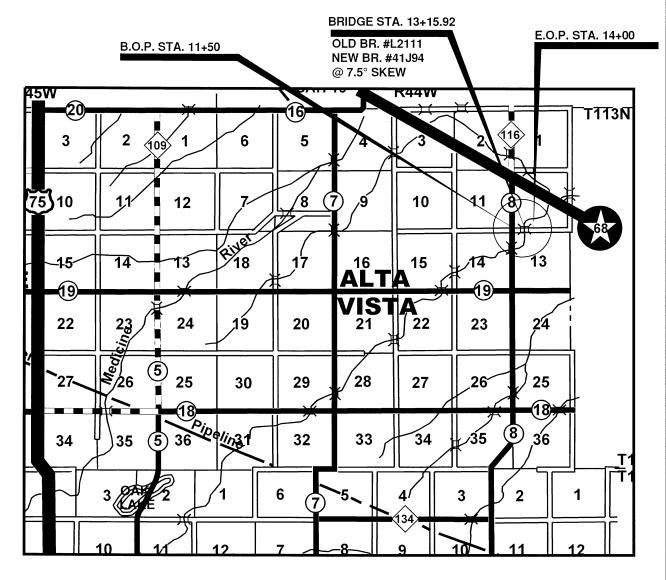


UTILITIES SYMBOLS

POWER POLE LINE	OHP
TELEPHONE LINE	TELE-
JOINT TELEPHONE AND POWER LINE	
ANCHOR	←
STEEL TOWER	Δ
STREET LIGHT	₩
PEDESTAL (TELEPHONE CABLE TERMINAL)	´`` ⊠
GAS MAIN	
WATER MAIN	ii
CONDUIT	
TELEPHONE CABLE IN CONDUIT	
ELECTRIC CABLE IN CONDUIT	P
TELEPHONE MANHOLE	ď
ELECTRIC MANHOLE	ē
BURIED TELEPHONE CABLE	T-BUR
BURIED POWER CABLE	P-BUR
SEWER (SANITARY OR STORM)	>>
SEWER MANHOLE	>>
POWER POLE	Ō



S.A.P. 041-599-067	(BRIDGE)	
GROSS LENGTH	250 FT.	0.047 MI.
BRIDGES-LENGTH	0 FT.	O MI.
EXCEPTIONS-LENGTH	0 FT.	O MI.
NET LENGTH	250 FT.	0.047 MI.



SCALE: 1 MILE

FEDERAL PROJECT NO.

SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE "SUPPLEMENTAL SPECIFICATIONS" DATED SEPTEMBER 2022 SHALL GOVERN.

INDEX

- 1.) TITLE SHEET
- 2.) ESTIMATED QUANTITIES
- GENERAL PLAN AND ELEVATION
- STAKEOUT
- 5-6.) BARREL & END SECTION DETAILS
- 7.) EMBANKMENT PROTECTION
- **EROSION & SEDIMENT CONTROL PLAN** 9.) EROSION & SEDIMENT CONTROL DETAILS
- 10.) PLAN & PROFILE
- 11.) BRIDGE SURVEY SHEET
- 12.) SWPPP
- 13.) TRAFFIC CONTROL

THIS PLAN CONTAINS 13 SHEETS

DESIGN DESIGNATION

R-VALUE	
ADT (2022)	LESS THAN 50
Proj. ADT (2042)	LESS THAN 50
Proj. HCADT (2042)	
Soil Factor	
Shoulder Width	1.0 FT.
FUNCTIONAL CLASSIFICATION NO. OF TRAFFIC LANES2_ DESIGN SPEED BASED ON STOPPING SIGHT I	LOCAL NO. OF PARKING LANES 0 25 MPH (TERRAIN)
HEIGHT OF EYE 3.5 FT. HE DESIGN SPEED NOT ACHIEVE	EIGHT OF OBJECT 2.0 FT.

LOCAL AGENCY SIGNATURES:
Signature: Typed or Printed Name: Joseph M. Wilson Design Engineer: I hereby certify that this plan 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 Minnesota.
Date: 1-4-23
Approved: Uncoln County Engineer 54947 Date: 1-4-23
District State-Aid Engineer: Reviewed for Compliance with State-Aid Rules/Policy

State-Aid Engineer: Approved for State Aid Funding

S.A.P. NO. <u>041-599-067</u> SHEET NO. <u>1</u> OF <u>13</u>

Date:

	ESTIMATED QUANTITIES					
NOTES	TES ITEM NO. ITEM		UNITS	TOTAL PARTICIPATING	TOTAL NON-PARTICIPATING	TOTAL ESTIMATED QUANTITIES
	2021.501	MOBILIZATION	LUMP SUM	1		1
1	2118.509	AGGREGATE SURFACING CLASS 1	TON		158	158
2	2412.502	16X5 PRECAST CONCRETE BOX CULVERT END SECTION	EACH	2		2
2	2412.502	16X6 PRECAST CONCRETE BOX CULVERT END SECTION	EACH	2		2
3,4	2412.503	16X5 PRECAST CONCRETE BOX CULVERT	LIN FT	38		38
3,4	2412.503	16X6 PRECAST CONCRETE BOX CULVERT	LIN FT	38		38
5,6	2442.501	REMOVE EXISTING BRIDGE	LUMP SUM		1	1
7	2451.507	COARSE FILTER AGGREGATE (CV) (P)	CU YD	267		267
8	2451.609	GRANULAR BACKFILL	TON	164		164
9,10	2511.509	RANDOM RIPRAP CLASS III	TON	239		239
	2563.601	TRAFFIC CONTROL	LUMP SUM			1
11	2564.502	INSTALL MARKER	EACH		2	2
	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LIN FT		60	60
	2575.504	ROLLED EROSION PREVENTION CATEGORY 20	SQ YD		324	324
12	2575.505	SEEDING	ACRE		0.5	0.5
13	2575.505	DISK ANCHORING	ACRE		0.5	0.5
	2575.508	SEED MIXTURE 21-111	POUND		16	16
	2575.508	SEED MIXTURE 25-142	POUND		23	23
13	2575.509	MULCH MATERIAL TYPE 1	TON		1	1

UTILITY CONTAC	CTS
LINCOLN COUNTY ENVIRONMENTAL 221 NORTH WALLACE AVENUE P.O. BOX 66 IVANHOE, MN PH:(507)694-1344	. OFFICE

BASIS FOR PLANNED QUANTITIES				
AGGREGATE SURFACING CLASS 1	140 LBS./CUBIC FOOT (CV)			
QUARRY RUN RIP-RAP	1.3 TONS/CUBIC YARD			
SEED MIXTURE 21-111	31 LBS./ACRE (PLS RATE)			
SEED MIXTURE 25-142	45 LBS./ACRE (PLS RATE)			
MULCH MATERIAL TYPE 1	2 TONS / ACRE			
GRANULAR BACKFILL	1.8 TONS / CUBIC YARD			

STANDARD PLATES			
PLATE NO. DESCRIPTION			
8000 K	CHANNELIZERS TYPE A, TYPE B, TYPE C.		
* THESE STANDARD PLATES ARE APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION AND SHALL APPLY ON THIS PROJECT.			

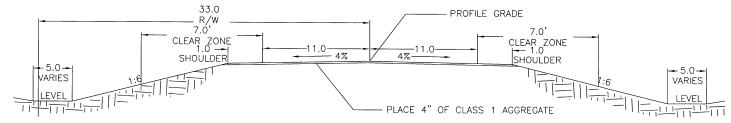
GENERAL CONSTRUCTION NOTES:

- THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED
 ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION
 OF EXISTING SUBSURFACE UTILITY DATA".
- THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES ARE NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.
- CONTRACTOR IS RESPONSIBLE FOR NOTIFYING GOPHER STATE ONE CALL PRIOR TO CONSTRUCTION (PHONE NO. 1-800-252-1166).
- CONTRACTOR SHALL COORDINATE WORK WITH OTHER UTILITY CONTRACTORS, WORK MAY BE ADJACENT AND WITHIN THE PROJECT LIMITS. NO COMPENSATION WILL BE MADE FOR THE COORDINATION WITH THE UTILITIES.
- CONTRACTOR SHALL MAINTAIN CONSTRUCTION WORK WITHIN THE PROJECT LIMITS AS SHOWN ON THE PLANS. ANY DAMAGE OUTSIDE
 THE CONSTRUCTION LIMITS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- (P) INDICATES PLANNED QUANTITY.

NOTES:

- 1. QUANTITY FOR AGGREGATE SURFACING CLASS 1 IS CALCULATED AT 4" IN THICKNESS BETWEEN STATIONS 12+23 TO 14+05 AND INCLUDES AN ADDITIONAL 50 TON TO ACCOUNT FOR NECESSARY ROAD REPAIRS DUE TO DAMAGE DONE DURING CONSTRUCTION.
- 2. PRECAST CONCRETE BOX CULVERT END SECTIONS SHALL BE TYPE I FOR A 7.5° SKEW.
- 3. MASTIC JOINT SEALER SHALL BE APPLIED TO THE ENTIRE JOINT AREA AND TO LIFT HOLE PLUGS. GEOTEXTILE MATERIAL SHALL ALSO BE INSTALLED ON THE ENTIRE JOINT AREA OF THE PIPE. MASTIC JOINT SEALER, GEOTEXTILE MATERIAL, AND PIPE TIES SHALL BE INCLUDED IN THE BID PRICE FOR PRECAST CONCRETE BOX CULVERTS.
- 4. ALL EXCESS EXCAVATION SHALL BE DISPOSED OF BY THE CONTRACTOR. COST OF SAID DISPOSAL SHALL BE INCLUDED IN THE BID PRICE FOR PRECAST CONCRETE BOX CULVERT.
- 5. PRIOR TO PERFORMING EXCAVATION AND EMBANKMENT OPERATIONS WITHIN THE PROJECT LIMITS THE CONTRACTOR SHALL SALVAGE AND STOCKPILE THE TOPSOIL IN A LOCATION OF THE CONTRACTOR'S CHOICE, ON THE PROJECT SITE. UPON COMPLETION OF ALL GRADING OPERATIONS, THE CONTRACTOR SHALL DEPOSIT AND SPREAD THE TOPSOIL IN A UNIFORM LAYER ON THE SUBSOIL. THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR REMOVAL OF THE EXISTING STRUCTURE. ANY EXCAVATED ROCK IS INCLUDED IN THE BID PRICE FOR THE REMOVAL OF THE BRIDGE.
- 6. EXISTING BRIDGE BECOMES THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF SITE. THE CONCRETE AND TIMBER SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED LANDFILL OR REUSED/RECYCLED ACCORDING TO LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- 7. THE GRADATION FOR COARSE FILTER AGGREGATE SHALL CONFORM TO SPEC 3149.2H.
- B. BACKFILLING SHALL OCCUR IN LIFTS NOT EXCEEDING 0.5 FEET IN DEPTH. THE CONTRACTOR SHALL USE HAND OPERATED COMPACTION EQUIPMENT AROUND THE PIPE CULVERT TO ATTAIN DENSITY.
- 9. INSTALLATION SHALL BE IN ACCORDANCE WITH SPECS. 2511 & 3601. TYPE 7 GEOTEXTILE FILTER SHALL CONFORM TO SPEC. 3733. THIS ITEM IS INCLUDED IN THE BID PRICE FOR THE PLACEMENT OF RIP RAP.
- 10. THE CONTRACTOR SHALL USE QUARRY RUN RIP RAP.
- 11. CULVERT MARKER TO BE FURNISHED BY THE COUNTY.
- 12. THE AREAS TO BE SEEDED SHALL BE COMPRISED OF ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. PRIOR TO THE SEEDING OPERATION THE AREAS SHALL BE CLEARED OF ALL DEBRIS (INCLUDING TREE ROOTS, WEEDS, ROCKS, ETC.). ANY DEBRIS ENCOUNTERED WHILE PREPARING THE AREAS FOR SEEDING SHALL BE DISPOSED OF BY THE CONTRACTOR OFF THE PROJECT IN A SUITABLE DISPOSAL AREA PROVIDED BY THE CONTRACTOR AS APPROVED BY THE ENGINEER. THE PREPARATION FOR SEEDING, REMOVAL AND HAULING OF DEBRIS IS INCLUDED IN THE BID PRICE FOR SEEDING.
- 13. MULCH MATERIAL TYPE 1 SHALL BE USED IN DISTURBED AREAS IN WHICH BLANKET IS NOT USED AND SHALL BE DISK ANCHORED.

PROPOSED TYPICAL SECTION TOWNSHIP ROAD



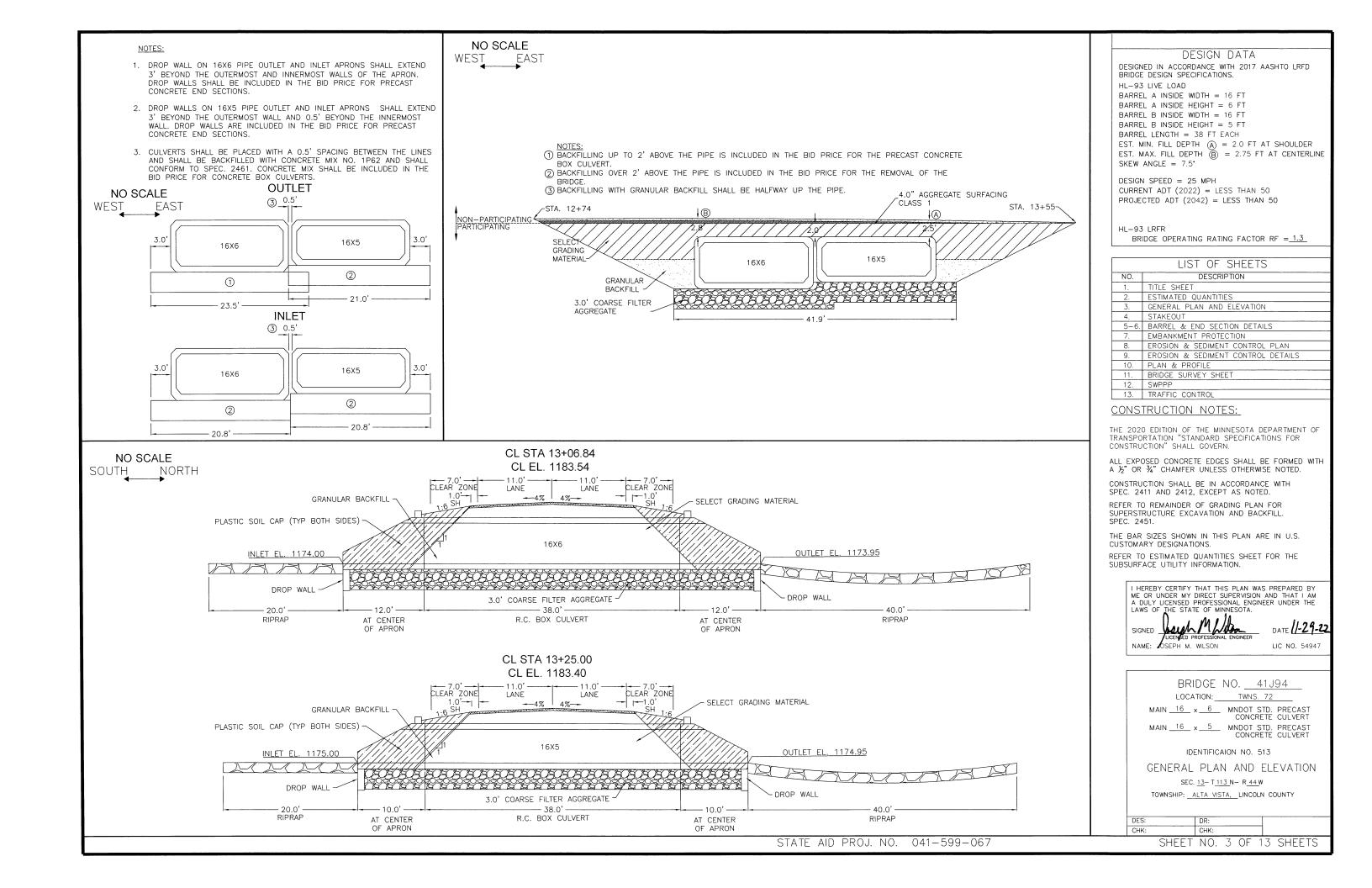
ESTIMATED QUANTITIES

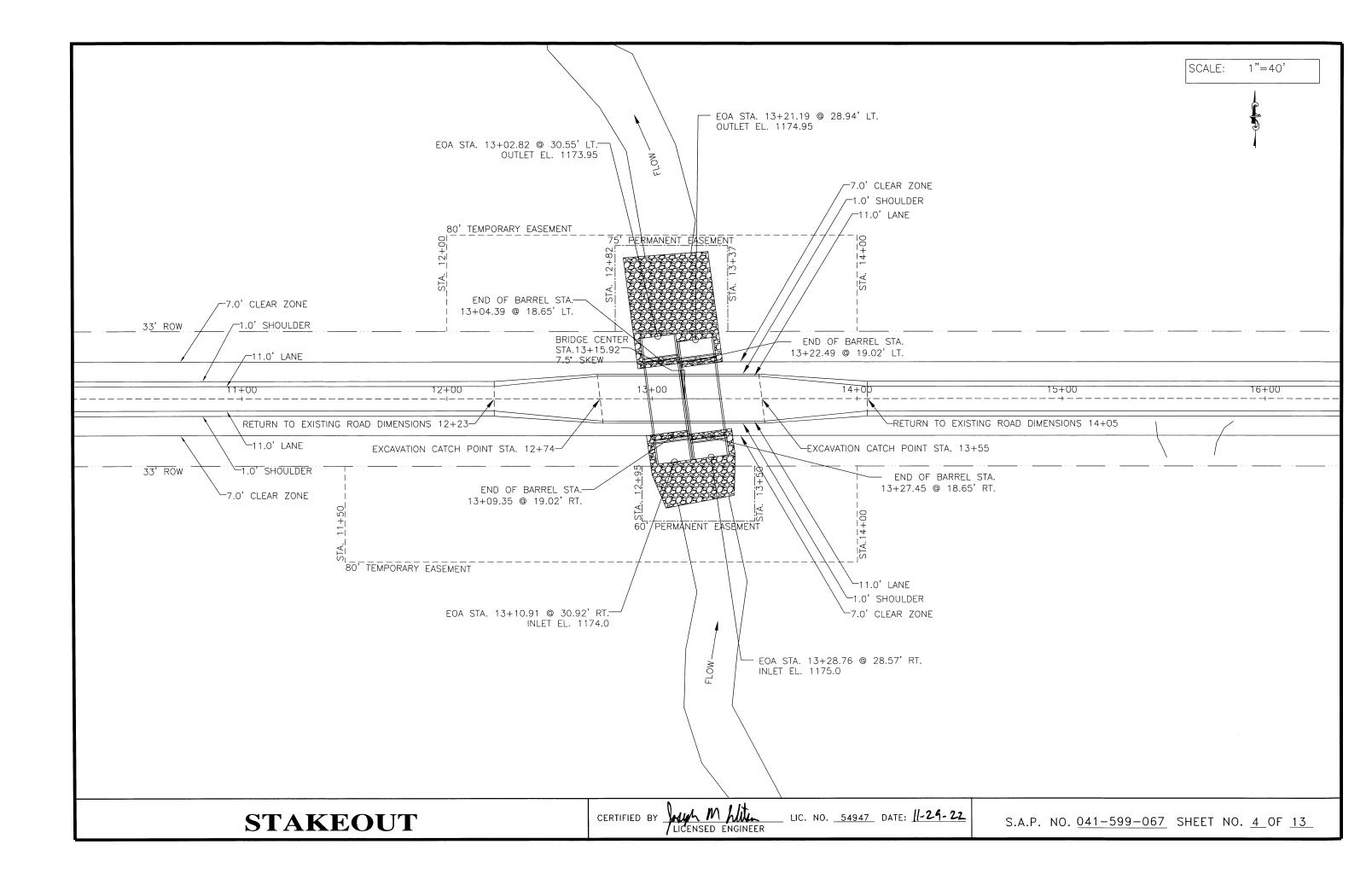
CERTIFIED BY

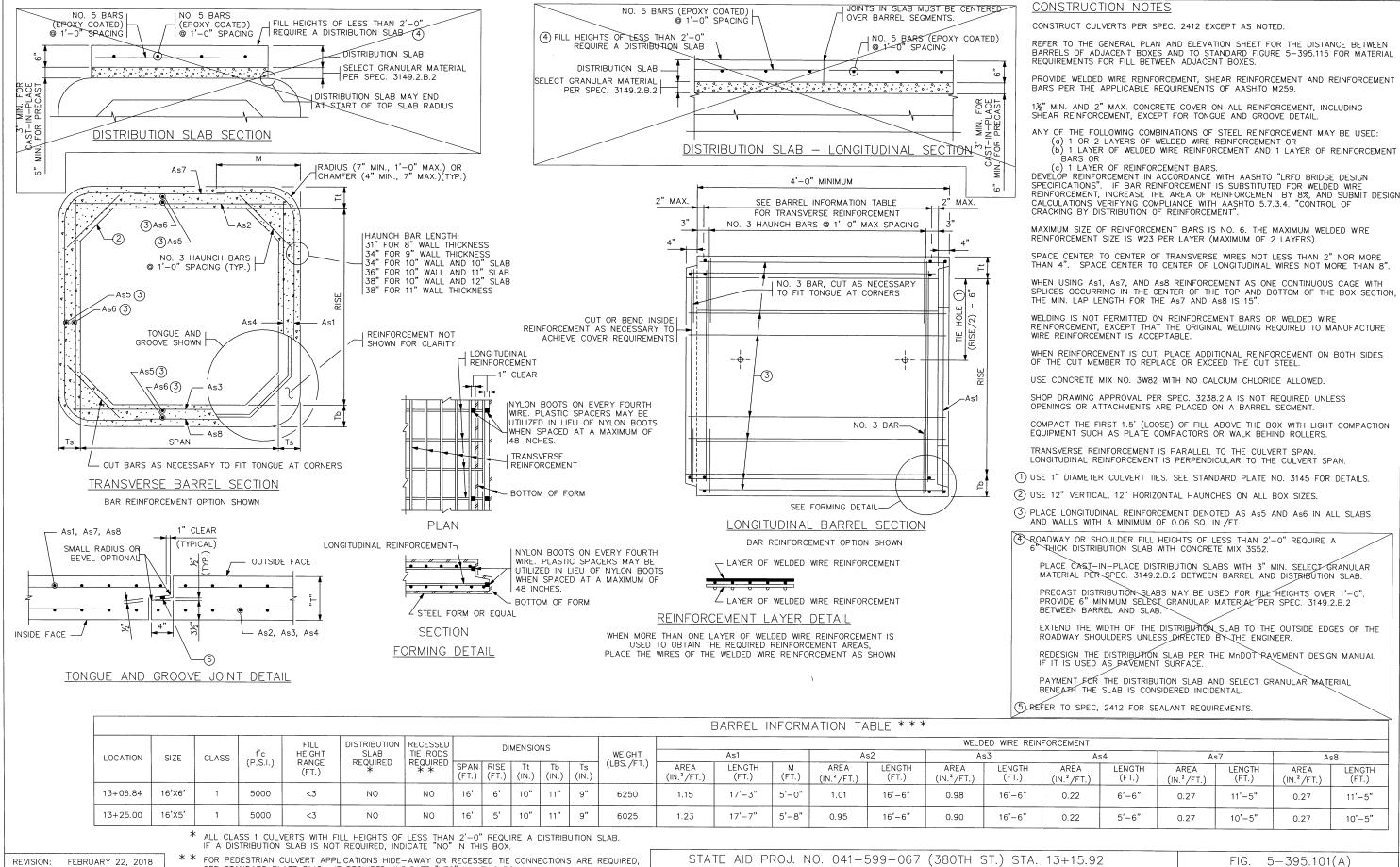
LICENSED ENGINEER

LIC. NO. <u>54947</u> DATE: <u>1-4-23</u>

S.A.P. NO. <u>041-599-067</u> SHEET NO. <u>2</u> OF <u>13</u>







APPROVED: MARCH 24, 2011

BOX CULVERTS WITH SE NOT INCLUDING THE DESIGN

THATE BRIDGE ENGINEER

SEE STANDARD PLATE

BOX CULVERTS WITH SE NOT INCLUDING THE DESIGN

* FOR PEDESTRIAN CULVERT APPLICATIONS HIDE-AWAY OR RECESSED TIE CONNECTIONS ARE REQUIRED SEE STANDARD PLATE 3145. IF REQUIRED, INDICATE "YES" IN THIS BOX.

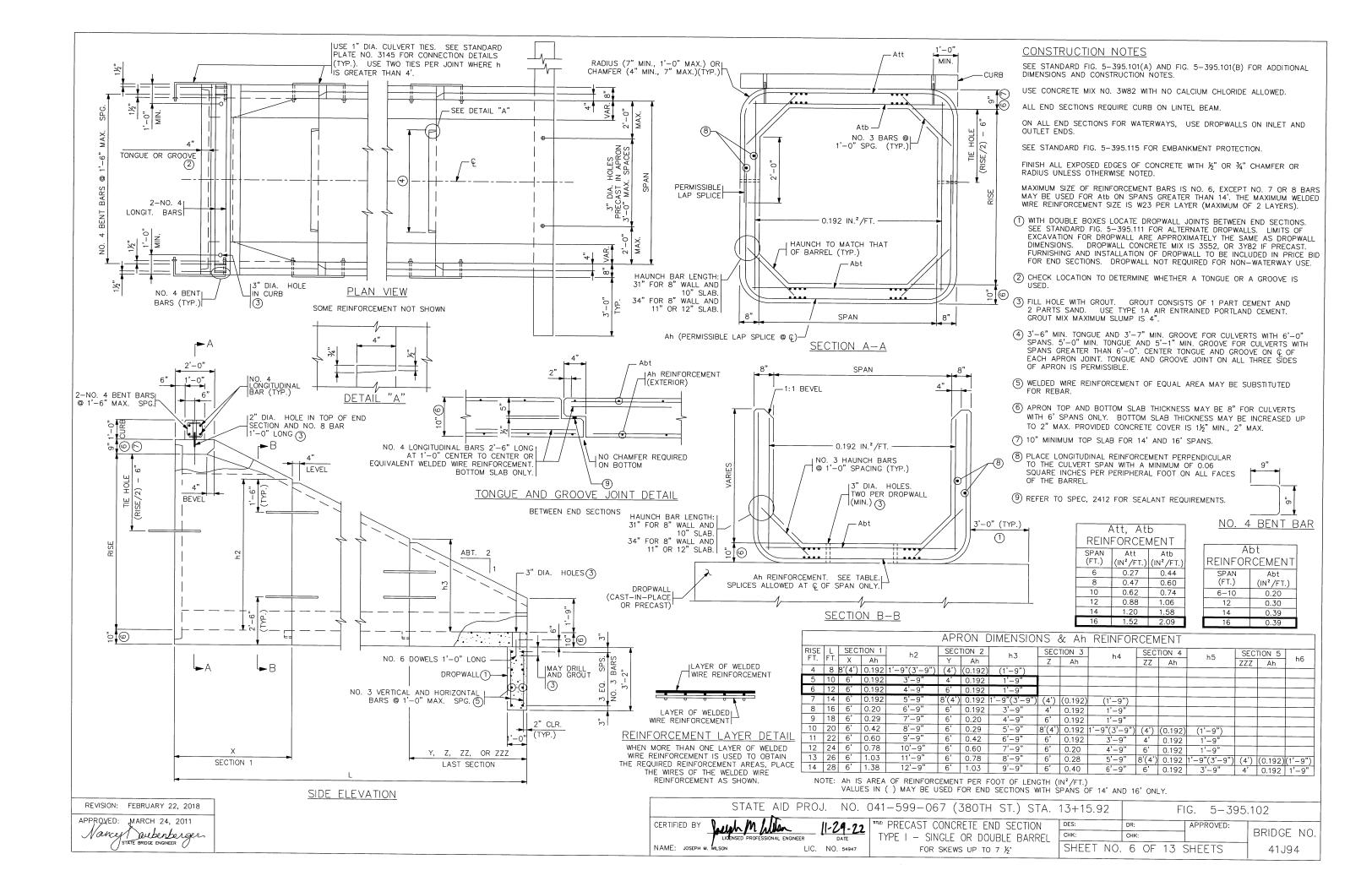
* BOX CULVERTS WITH SPANS FROM 6 TO 14 FT. ARE DESIGNED FOR HL-93 LIVE LOADS (AASHTO LRFD 3.6.2.1) NOT INCLUDING THE DESIGN LANE LOAD. BOXES WITH SPANS OF 16 FT. ARE DESIGNED FOR HL-93 LIVE LOADS INCLUDING THE DESIGN LANE LOAD.

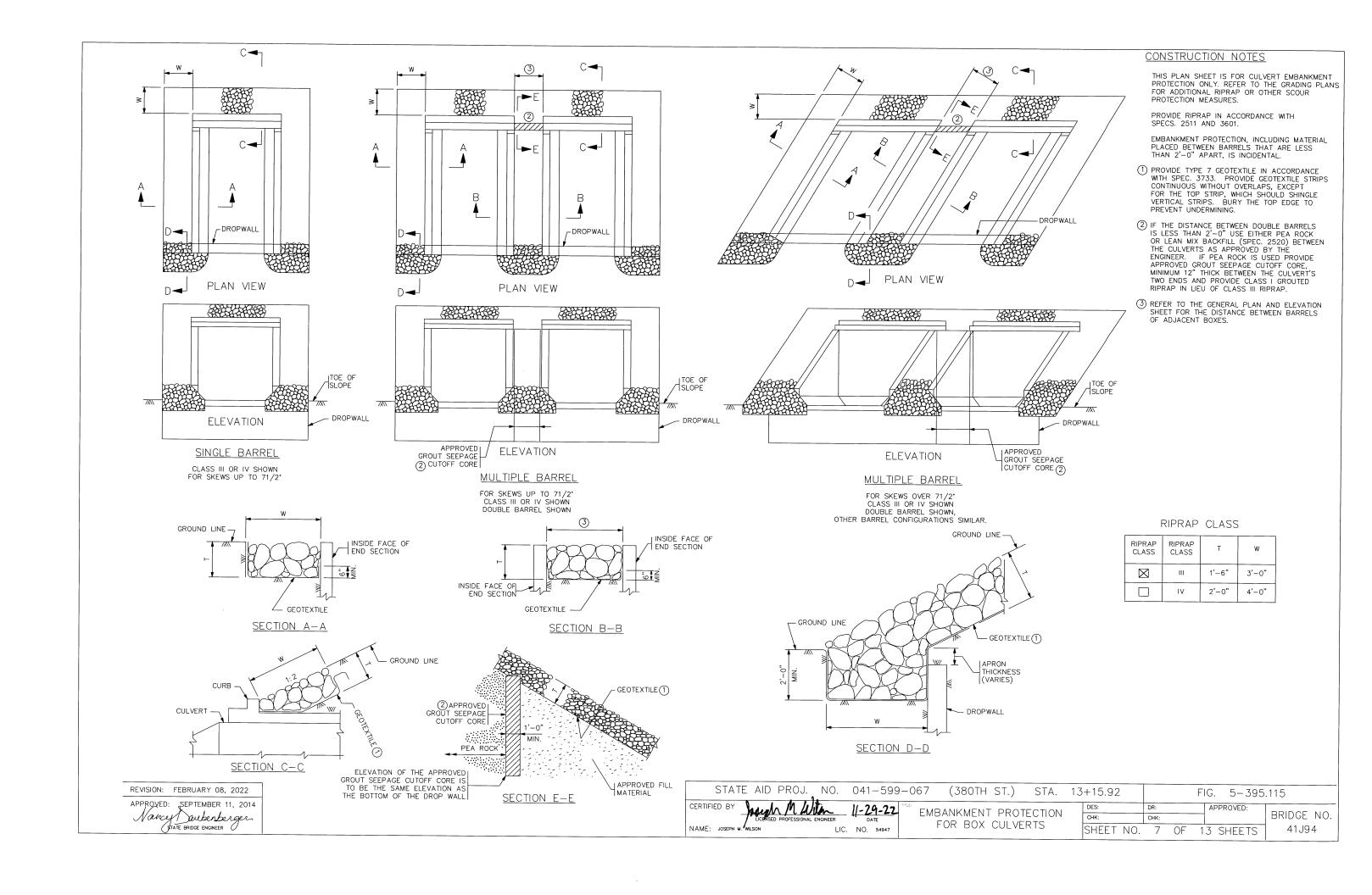
TIED BY M Lite 11.20 20 TIES

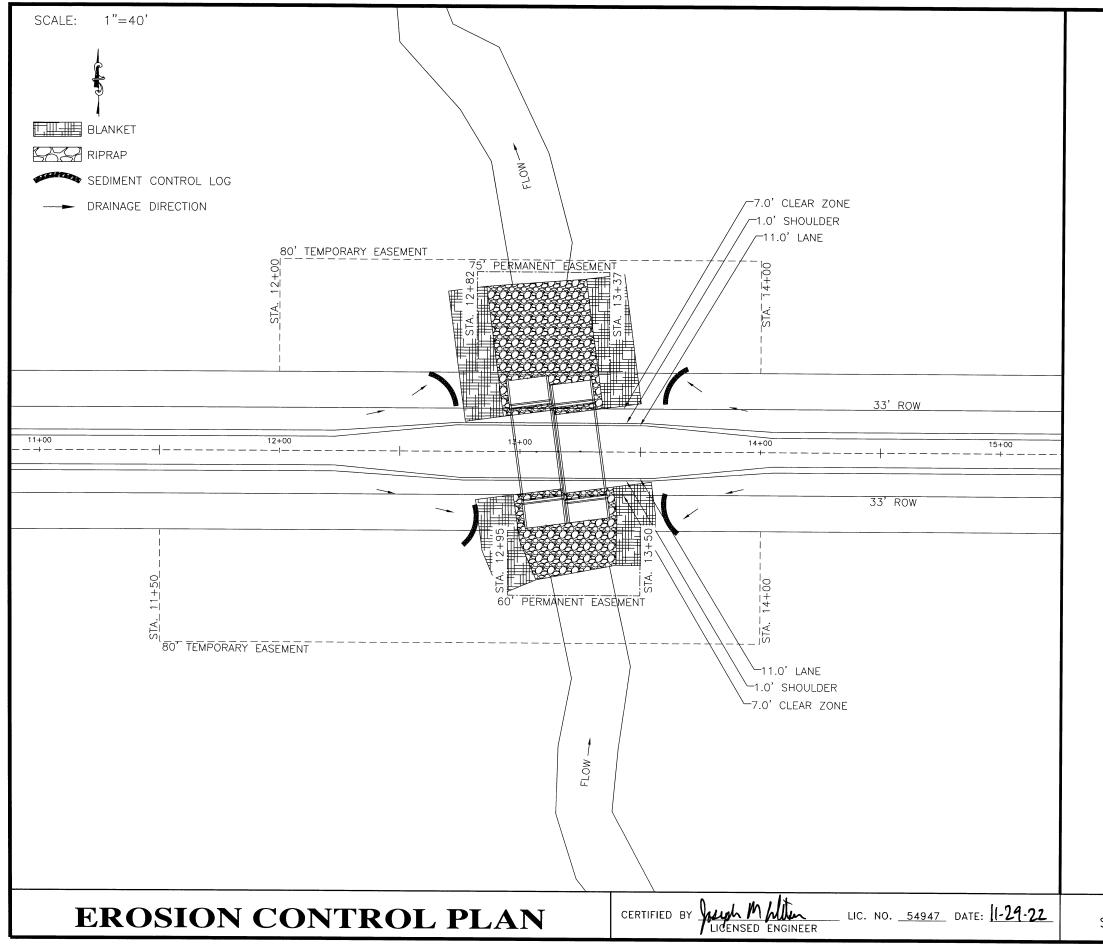
CERTIFIED BY LICENSED PROFESSIONAL ENGINEER DATE

NAME: JOSEPH M. WILSON LIC. NO. 54947

PRECAST CONCRETE BARREL DETAILS DES: DR: APPROVED: BRIDGE NO
SHEET NO. 5 OF 13 SHEETS 41J94







RANDOM RIPRAP CLASS III					
STATION SIDE REMARKS QUANTITY					
12+97 TO 13+40	RT.	INLET	56		
12+86 TO 13+34	LT.	OUTLET	183		
TOTAL 239					
*1.3 TONS PER CUBIC YARD					

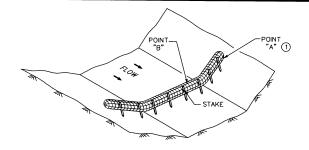
ROLLED EROSION PREVENTION, CATEGORY 20				
STATION	SIDE	REMARKS	SQ. YD.	
12+82 TO 13+56	RT.	INLET	130	
12+70 TO 13+50	LT.	OUTLET	194	
		TOTAL	324	
*QUANTITIES MAY BE A THE FIELD	ADJUSTED	BY ENGINEER	IN	

SEEDING				
STATION	SIDE	REMARKS	ACRE	
12+73 TO 13+55	RT.	INLET	0.25	
12+73 TO 13+55	LT.	OUTLET	0.25	
TOTAL 0.5				
*QUANTITIES MAY BE /	ADJUSTED	BY ENGINEER	IN	

SEED MIXTURE 21-111		SEED MIXTURE 25-142		
SIDE	POUNDS	SIDE	POUNDS	
INLET (RT.)	9	INLET (RT.)	13	
OUTLET (LT.)	7	OUTLET (LT.)	10	
TOTAL	16	TOTAL	23	
*QUANTITIES MAY BE ADJUSTED BY ENGINEER IN				
THE FIELD				

MULCH MA ⁻ TYPE	•	DISK ANCHORING				
SIDE	TONS	SIDE	ACRE			
INLET (RT.)	0.6	INLET (RT.)	0.25			
OUTLET (LT.)	0.4	OUTLET (LT.)	0.25			
TOTAL	11	TOTAL	0.5			
*QUANTITIES MAY BE ADJUSTED BY ENGINEER IN THE FIELD						

S.A.P. NO. <u>041-599-067</u> SHEET NO. <u>8</u> OF <u>13</u>



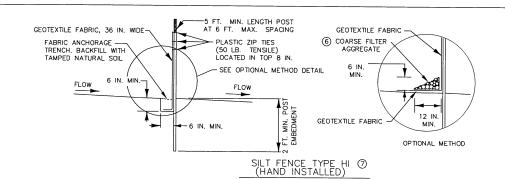
SEDIMENT CONTROL LOG TYPE WOOD FIBER, OR TYPE COMPOST 2 3

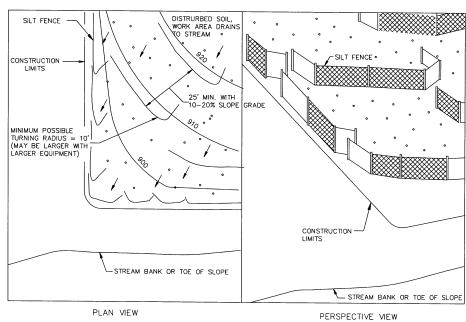
NOTES:

SEE SPECS. 2573, 3601, 3733, 3885 & 3886

FOR DITCH CHECKS, PLACE SEDIMENT CONTROL LOG PERPENDICULAR TO FLOW AND IN A CRESCENT SHAPE WITH THE ENDS FACING UPSTREAM.

- (1) POINT "A" MUST BE A MINIMUM OF 6 INCHES HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.
- ② DITCH GRADE 1.5% 3%, MAX. FLOW VELOCITY 4.5 FT./SEC. (SEDIMANT CONTROL LOG WITH EROSION CONTROL BLANKET)
- (SEDIMENT CONTROL LOG WITHOUT EROSION CONTROL BLANKET)





PERS J-HOOK INSTALLATION 1 IN. X 2 IN. X 24 IN. LONG WOODEN STAKES.
STAKES SHALL BE DRIVEN THROUGH THE BACK
HALF OF THE SEDIMENT CONTROL LOG AT AN
ANGLE OF 45 DEGREES WITH THE TOP OF THE
STAKE POINTING UPSTREAM.

BACKFILL AND COMPACT SOIL FROM TRENCH ON
UP-GRADE SIDE OF SEDIMENT CONTROL LOG.

PLACE SEDIMENT CONTROL LOG IN
SHALLOW TRENCH (1 TO 2 IN. DEPTH).

TYPES: STRAW, WOOD FIBER, OR COIR

1 IN. X 2 IN. X 24 IN. LONG WOODEN STAKES AS
NEEDEDL. STAKES SHALL BE DRIVEN OVER THE
SEDIMENT CONTROL LOG AT AN ANGLE OF 45
DEGREES WITH THE TOP OF THE STAKE POINTING
UPSTREAM.

S

FLOW

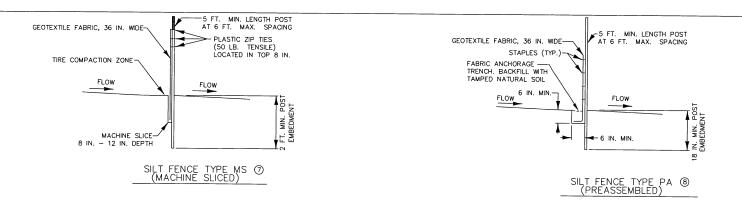
8-10 IN. EMBEDMENT DEPTH

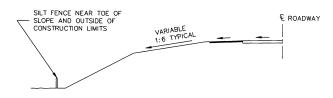
TYPES: WOOD CHIP, COMPOST, OR ROCK

NOTES:

SEE SPECS. 2573, 3149, 3874, 3882, 3886, & 3897.

- SPACE BETWEEN STAKES SHALL BE A MAXIMUM OF 1 FOOT FOR DITCH CHECKS OR 2 FEET FOR OTHER APPLICATIONS.
- (§) PLACE STAKES AS NEEDED TO PREVENT MOVEMENT OF SEDIMENT CONTROL LOGS PLACED ON SLOPES OR AS NEEDED DUE TO OTHER FACTORS. STAKES SHALL BE INCIDENTAL.





LOCATION AT TOE OF ROADWAY EMBANKMENT

NOTES:

SEE SPECS. 2573, 3149 & 3886.

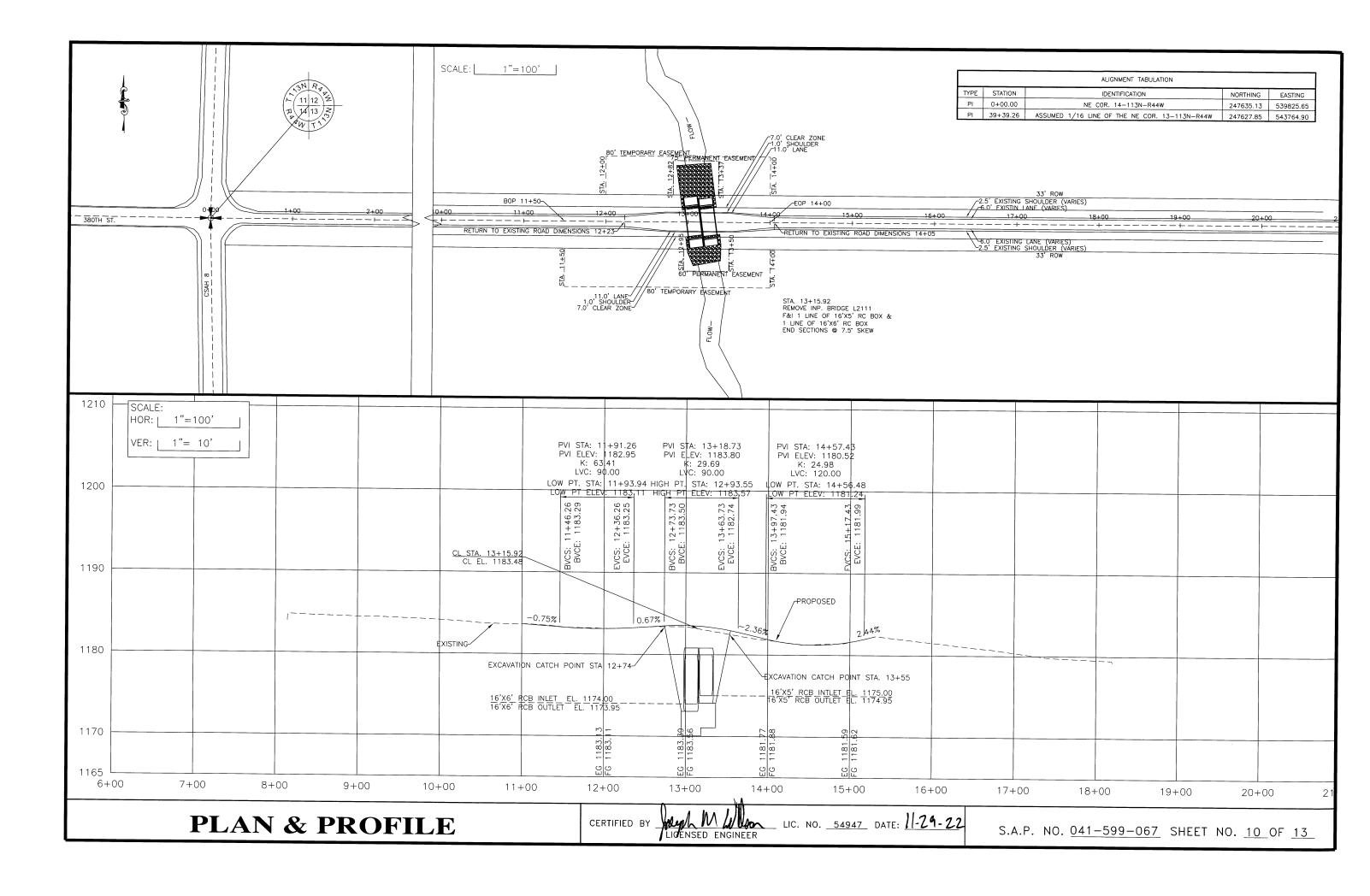
- 6 COARSE FILTER AGGREGATE (SPEC. 3149) SHALL BE INCIDENTAL.
- 7 TO PROTECT AREAS FROM SHEET FLOW. MAXIMUM CONTRIBUTING AREA: 1 ACRE.
- (8) TO PROTECT AREAS FROM SHEET FLOW. MAXIMUM CONTRIBUTING AREA: 0.25 ACRE.

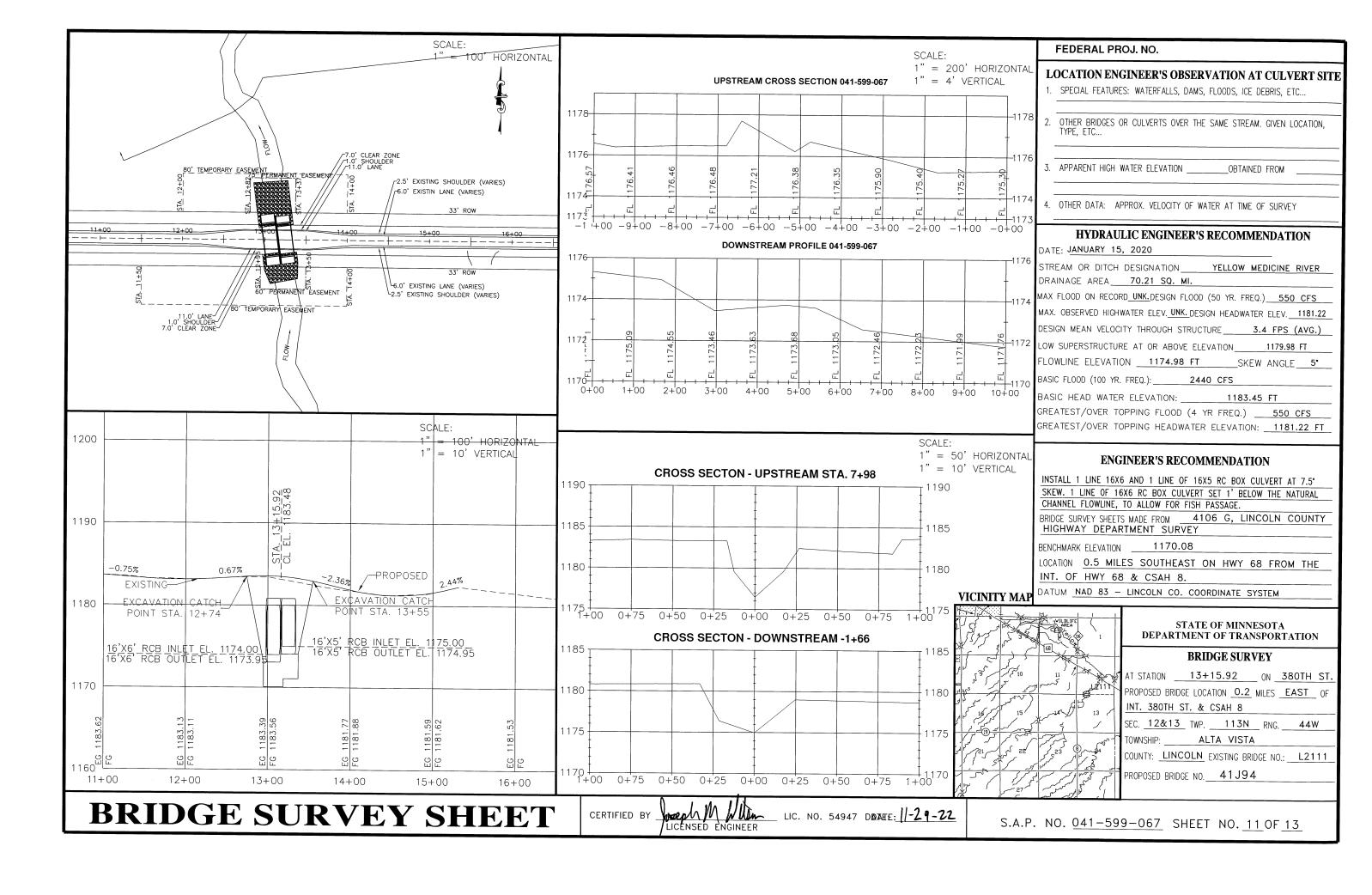
SEDIMENT CONTROL DETAILS

CERTIFIED BY LICENSED ENGINEER

LIC. NO. <u>54947</u> DATE: <u>[-29-22]</u>

S.A.P. NO. <u>041-599-067</u> SHEET NO. <u>9</u> OF <u>13</u>





STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

PROJECT DESCRIPTION

S.A.P. 041-599-067 CONSISTS OF REMOVING THE EXISTING STRUCTURE (L2111) OVER YELLOW MEDICINE RIVER, LOCATED APPROXIMATELY 0.2 MI. EAST OF THE INTERSECTION OF 380TH ST & CSAH 8, AND REPLACING IT WITH 1 LINE OF 16X6 RC BOX CULVERT AND 1 LINE OF 16X5 RC BOX CULVERT (NEW BRIDGE #41J94). CONSTRUCTION ACTIVITY INCLUDES REMOVAL OF THE EXISTING STRUCTURE, INSTALLING THE NEW BOX CULVERT, BACKFILLING, AND GRADING. THE TOTAL NET LENGTH OF THE PROJECT IS 250 FEET. THE RECEIVING WATER FOR STORM WATER FROM THIS PROJECT IS THE YELLOW MEDICINE RIVER. THE YELLOW MEDICINE RIVER IS CONSIDERED AN IMPAIRED WATER FOR E-COLI, MERCURY IN FISH TISSUE, AND TURBIDITY. THE STREAM ID FOR THE YELLOW MEDICINE RIVER IS 07020004-784.

PROJECT ENGINEER

THE PROJECT ENGINEER AND THE CONTRACTOR ARE RESPONSIBLE FOR THE IMPLEMENTATION OF THE SWPPP AND THE INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMP'S BEFORE AND DURING CONSTRUCTION.

TIMING AND BMP INSTALLATION

THE EROSION PREVENTION AND SEDIMENT CONTROL BMP'S SHALL BE INSTALLED AS NECESSARY TO MINIMIZE EROSION FROM DISTURBED SURFACES AND CAPTURE SEDIMENT ON SITE, AND SHALL MEET THE NPDES PERMIT PART IV CONSTRUCTION ACTIVITY REQUIREMENTS.

CALCULATIONS FOR STA. 11+50 TO 14+00 (BRIDGE REPLACEMENT AND GRADING)

WATER QUALITY VOLUMES

NEW IMPERVIOUS AREA 0.138-0.138 ACRES = 0.000 ACRES = 0.000 SQ. FT. WATER QUALITY VOLUME 0.000 SQ. FT. * 1 IN. = 0.000 CU. FT.

SWPPP DESIGNER

PATRICIA PARADIS-BEERNAERT-LINCOLN COUNTY TECHNICIAN

LOCATION OF SWPPP REQUIREMENTS IN PROJECT PLAN					
DESCRIPTION	TITLE	LOCATION			
SUMMARY OF PERVIOUS AND IMPERVIOUS	SWPPP	SHEET 12			
DIRECTION OF FLOW	EROSION & SEDIMENT CONTROL PLAN	SHEET 8			
RECEIVING SURFACE WATERS	SWPPP	SHEET 12			
FINAL STABILIZATION	EROSION & SEDIMENT CONTROL PLAN	SHEET 8			
DRAINAGE TABULATION	SWPPP	SHEET 12			
EROSION CONTROL TABULATION	EROSION & SEDIMENT CONTROL PLAN	SHEET 8			
EROSION CONTROL SHEETS	EROSION & SEDIMENT CONTROL PLAN & EROSION CONTROL DETAILS	SHEETS 8-9			
SEDIMENT CONTROL DETAILS	EROSION & SEDIMENT CONTROL DETAILS	SHEET 9			

AMENDING THE SWPPP

THE SWPPP MUST BE AMENDED TO RECORD CHANGES OR MODIFICATIONS TO PERMIT BMP'S OR OTHER STORM WATER TREATMENT SYSTEMS AND REMOVALS OF TEMPORARY BMP'S. CHANGES TO TEMPORARY BMP'S MAY BE RECORDED ON THIS SHEET. INCLUDE A BRIEF DESCRIPTION OF THE PROBLEM, LOCATION, NATURE OF ALTERATION, AND COMMENTS. THIS RECORD IS TO BE RETAINED FOR THREE YEARS AFTER PROJECT COMPLETION.

DATE REPORTED	STAFF (SHEET)	PLAN LOCATION (STATION)	PROJ. LOCATION	PROBLEM, SOLUTION, AND NOTES

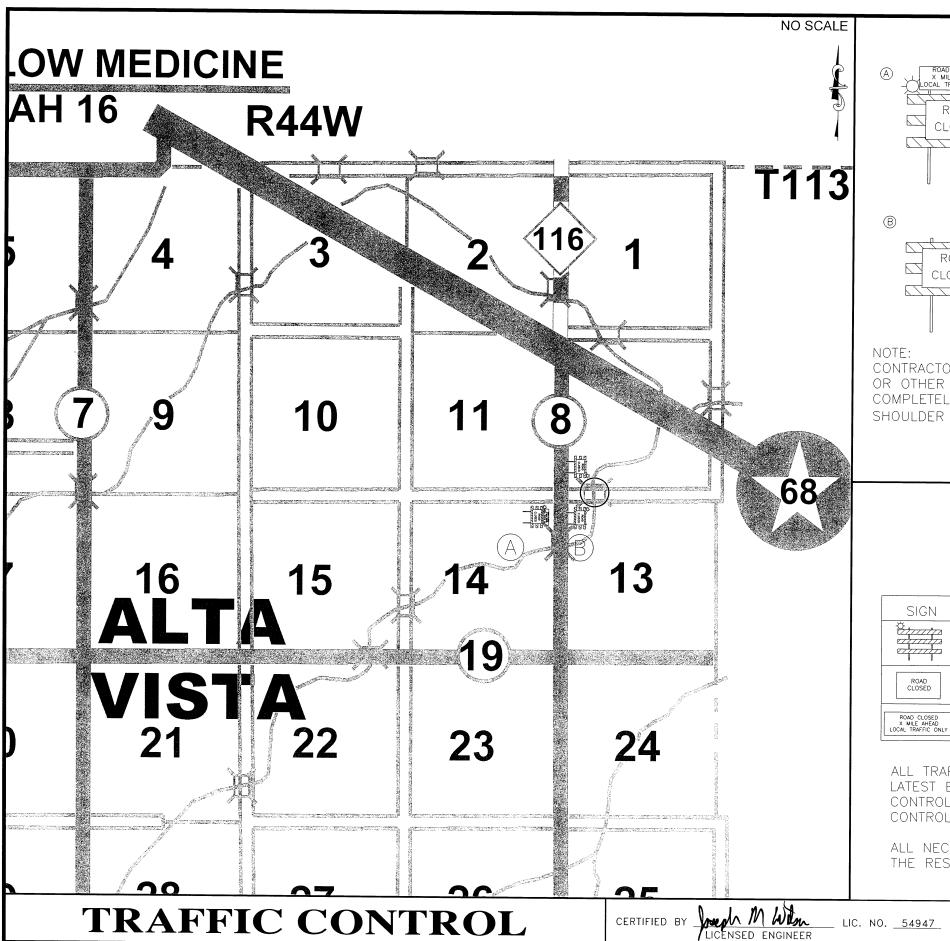
STORM WATER POLLUTION PREVENTION PLAN

CERTIFIED BY

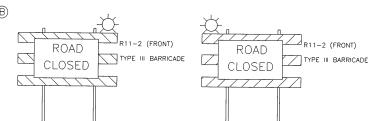
Joseph M Hollow Licensed Engineer

LIC. NO. <u>54947</u> DATE: <u>ll-29-22</u>

S.A.P. NO. <u>041-599-067</u> SHEET NO. <u>12</u> OF <u>13</u>







CONTRACTOR SHALL INSTALL AND MAITAIN ORANGE SAFTEY FENCE OR OTHER MATERIAL ACCEPTED BY THE ENGINEER AS TO COMPLETELY BLOCK THE ROADWAY FROM SHOULDER PI TO SHOULDER PI AT THE BARRICADE (B) LOCATION.

SIGN	SIGN NO.	QUANTITY	SIZE	COLOR	FLASHERS
	TYPE III BARRICADE	3	60" X 48"	ORANGE ON WHITE	3
ROAD CLOSED	R11-2	3	48" X 30"	BLACK ON WHITE	
ROAD CLOSED X MILE AHEAD LOCAL TRAFFIC ONLY	R11-3a	1	60" X 30"	BLACK ON WHITE	

ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MINNESOTA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE LATEST EDITION OF THE TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS FIELD MANUAL.

ALL NECESSARY TRAFFIC CONTROL DEVICES ON THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

_ LIC. NO. <u>54947</u> DATE: **[[-29-22**

S.A.P. NO. <u>041-599-067</u> SHEET NO. <u>13</u> OF 13