PLAN SYMBOLS MINNESOTA DEPARTMENT OF TRANSPORTATION GOVERNING SPECIFICATIONS THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. **ANOKA COUNTY** SIXTEENTHLINE ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE INSTALLED RIGHT OF WAY LINE IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC SLOPE EASEMENT EXISTING RIGHT OF WAY. PROPERTY LINE CORPORATE OR CITY LIMITS CONTROL DEVICES* (MNMUTCD), AND PAR VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS." GRADING, AGG.BASE, CONCRETE WALK SURFACING CONSTRUCTION PLAN FOR _____ RETAINING WALL _ RAILROAD ______ **INDEX** RAILROAD RIGHT OF WAY LOCATED ON C.S.A.H. 14 BETWEEN WEDGEWOOD DRIVE AND ROUND LAKE BOULEVARD RIVER OR CREEK DRAINAGE DITCH. DROP INLET GUARD RAIL BARBED WIRE FENCE WOVEN WIRE FENCE 02-614-37 STATE AID PROJECT NO. CHAIN LINK FENCE_ WOOD FENCE _____ C.S.A.H. 14 STONE WALL OR FENCE. GROSS LENGTH BRIDGES-LENGTH EXCEPTIONS-LENGTH 2059.16 FEET 269.54 FEET 0.00 FEET 2059.16 FEET LOWI AND NET LENGTH CATTLE GUAR RIVERDALE BLVD NW 1-8-F BUILDING (One Story Frame) BEGIN BRIDGE NO. 02560 END BRIDGE NO. 02560 C.S.A.H. 14 WALK STA. 110+08.13 RAILROAD CROSSING BELL C.S.A.H. 14 WALK STA. 112+45.51 MANHOLE CATCH BASIN FIRE HYDRANT CAST IRON MONUMENT _ RIVER RAPIDS DR NW END S.A.P. 114-020-40 BEGIN S.A.P. 114-020-40 END S.A.P. 02-614-37 THIS PLAN CONTAINS 51 SHEETS BEGIN S.A.P. 02-614-37 C.S.A.H. 14 WALK STA. 120+59.16 **DESIGN DESIGNATION** C.S.A.H. 14 WALK STA. 100+00.00 GRAVEL PIT. SAND PIT . CSAH 14 BORROW PIT_ ROCK QUARRY UTILITY SYMBOLS 124TH AVE NW 124TFLAVE-NW CROSS ST. POWER POLE LINE .. TELEPHONE OR TELEGRAPH POLETINE MADISON ST JOINT TELEPHONE & POWER ON POWER POLES ON TELEPHONE POLES_ JEFFERSON ST. 123RD AVE NW STEEL TOWER 123RD LN NW STREET LIGHT PEDESTAL (Cable Terminal) **121ST LN NW** ADAMS ST. GAS MAIN THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY YUCCA ST. NW 122ND AVE NW WATERMAIN. TELEPHONE CABLE IN CONDUIT -C-ELECTRIC CABLE IN CONDUIT == WASHINGTON ST TELEPHONE MANHOLE . WEDGEWOOD DR ELECTRIC MANHOLE _ BURIED ELECTRIC CABLE ______P-BUR ---121ST LN NW ----T-AE---SILVEROD ST. NW SEWER (Sanitary or Storm) SOUTH ST SEWER MANHOLE ->-O->--**SCALES** Approved 12 14, 20 10 PLAN PROJECT LOCATION PROFILE CITY OF COON RAPIDS RECOMMENDED FOR APPROVAL HORIZONTAL CITY OF ANOKA VERTICAL ANOKA COUNTY REVIEWED FOR COMPLIANCE WITH STATE AND FEDERAL MN/DOT TRANSPORTATION DISTRICT - METRO X-SECTIONS HORIZONTAL **SECTION 5,6,7,8** AID RULES/POLICY / DISTRICT STATE AID ENGINE TOWNSHIP 31,32 NORTH D7 (Culson 13/2 1/20 10 2 STATE AID ENGINEER 1/20 10 **RANGE 24 WEST** Approved for State Funding INDEX MAP 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. 02-614-37 STATE AID PROJECT NO. **ANOKA COUNTY** TITLE SHEET 06-48 COON RAPIDS CITY NO. PRINT NAME: CURT A. KOBILARÇSIK SIGNATURE: CURT A. KOBILARÇSIK 114-020-40 MN STATE PROJECT NO. HIGHWAY DEPT. NO DATE BY CKD APPR VAME: P:\14_PED\PLAN\14_PED_TSH.DGN REVISION DATE: 12-9-10 LICENSE NO. 24756

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3	SOILS & CONSTRUCTION NOTES
4	UTILITY TABS, UTILITY & REMOVAL NOTES
5	TABULATIONS
6	EARTHWORK SUMMARY
7 - 11	TEMPORARY TRAFFIC CONTROL PLAN
12 - 13	INPLACE UTILITIES & REMOVAL PLAN
14	TYPICAL SECTIONS
15	EXISTING BRIDE PLAN
16 - 19	MISCELLANEOUS DETAILS
20	ALIGNMENT PLAN AND TAB
21 - 24	CONSTRUCTION PLAN
25 - 29	SIGNING & STRIPING PLAN, TAB, & DETAILS
30 - 31	STORM WATER POLLUTION PREVENTION PLAN
32 - 36	EROSION CONTROL PLAN AND DETAILS
37 - 45	CROSS SECTIONS
1 - 6	BRIDGE PLANS

Functional Classification	A MINOR EXPANDER
No. of Traffic Lanes	No. of Parking Lanes 0
ADT (2010) =	17,686
Proj. ADT (2030) =	28,298
Proj. HCADT (2030)=	1,553
Soil Factor	NA

LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTIONOF EXISTING SUBSURFACE UTILITY DATA".

Sheet 1 of 51 Sheets

			,	TOTAL	SAP 02-614-37 ANOKA COUNTY	SAP 114-020-40 CITY OF COON RAPIDS
TAB / NOTE	ITEM NO.	ITEM DESCRIPTION	UNIT	PROJECT QUANTITIES ESTIMATED	ROADWAY QUANTITIES ESTIMATED	ROADWAY QUANTITIES ESTIMATED
	2021.501	MOBILIZATION	LUMP SUM	1	0.12	0.88
	2021.001	WOOLES (TO)				
J	2102.502	PERMANENT PAVEMENT MARKING REMOVAL	LIN FT	778		778
В		REMOVE CURB AND GUTTER	LIN FT	484		484
В		REMOVE GUARD RAIL	LIN FT	225	225	10.44
В		REMOVE BITUMINOUS PAVEMENT	SQ FT	1041		1041
В	2104.505	REMOVE CONCRETE SLAB	SQ YD	23 385		23 385
В	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT EACH	14	14	300
C 1	2104.523 2104.601	SALVAGE SIGN TYPE C HAUL SALVAGED MATERIAL	LUMP SUM	1	1 1	
ļt	2104.001	FIAUL SALVAGED MATERIAL	LOWIT JOIN		1	
Α	2105.501	COMMON EXCAVATION (EV)(P)	CU YD	995		995
A	2105.523	COMMON BORROW (LV)	CU YD	639		639
G	2360.501	TYPE SP 12.5 WEARING COURSE MIXTURE (3,F)	TON	25		25
E	2411.507	CONCRETE FLUME	EACH	2		2
b	2411.001					
Н	2511.501	RANDOM RIPRAP CLASS II	CU YD	16		16
Н	2511.515	GEOTEXTILE FILTER TYPE III	SQ YD	37		37
E	2521.501	4" CONCRETE WALK	SQ FT	8668		8668
E	2521.501	4" CONCRETE WALK SPECIAL	SQ FT	345		345
Е	2531.501	CONCRETE CURB AND GUTTER DESIGN B412	LIN FT	387		387
<u> </u>	2531.618	TRUNCATED DOMES	SQ FT	32		32 249
Е	2531.618	PEDESTRIAN CURB RAMP	SQ FT	249		249
K, 2	2533.507	PORTABLE PRECAST CONCRETE BARRIER DESIGN 8337	LIN FT	575		575
	2545.602	ADJUST HANDHOLE	EACH	2		2
3	2550.602	RELOCATE SIGN	EACH	1		1
ĸ	2554.501	TRAFFIC BARRIER DESIGN SPECIAL	LIN FT	50	50	1
К		TRAFFIC BARRIER DESIGN B8338	LIN FT	130	130	
К		IMPACT ATTENUATOR BARRELS	EACH	22		22
К	2554.615	IMPACT ATTENUATOR	ASSEMBLY	2	2	
						1500
D	2557.501	WIRE FENCE DESIGN 60V-9322	LIN FT	1599		1599
	0500 004	TRACEIO CONTROL	LLINAD CLINA	1		1
1	2563.601 2564.531	TRAFFIC CONTROL SIGN PANELS TYPE C	LUMP SUM SQ FT	64.9	64.9	<u> </u>
I	2004.531	JIGN FANELO TIFE U	OQ F1	U4.3	5,440	
Н	2573.502	SILT FENCE TYPE MACHINE SLICED	LIN FT	1826		1826
Н	2573.530	STORM DRAIN INLET PROTECTION	EACH	6		6
Н	2575.501	SEEDING	ACRE	1.06		1.06
Н	2575.502	SEED MIXTURE 240	POUND	80		80
H	2575.505	SODDING TYPE SALT RESISTANT	SQ YD	1219		1219
Н	2575.523	EROSION CONTROL BLANKETS CATEGORY 3	SQ YD	5149		5149
H	2575.532	FERTILIZER TYPE 3	POUND	524		524
HH	2575.571	RAPID STABILIZATION METHOD 3	MGAL	6.6		6.6
**************************************	2502 502	4" COLID LINE WHITE CROVY	LIN FT	5477	5477	
J	2582.502 2582.502	4" SOLID LINE WHITE - EPOXY 4" BROKEN LINE WHITE-EPOXY	LIN FT	840	840	
J	2582.502	4" SOLID LINE YELLOW-EPOXY	LIN FT	4143	4143	
	2002.002	I A OOCID FILKE I FEFFONS-FLUOVI	LINI	7170	1177	

THE FOLLOWING STANDARD PLATES APPROVED BY THE DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION SHALL APPLY ON THIS PROJECT.

STANDARD PLATES					
PLATE NO.	DESCRIPTION				
7020J	CONCRETE CURB AND GUTTER (2 SHEETS)				
7036F	PEDESTRIAN CURB RAMP (2 SHEETS)				
80001	STANDARD BARRICADES				
8337B	TEMPORARY PORTABLE PRECAST CONCRETE BARRIER (TYPE F) (2 SHEETS)				
8338C	W-BEAM GUARDRAIL & END ANCHORAGES (2 SHEETS)				
9322K	CHAIN LINK FENCE (2 SHEETS)				

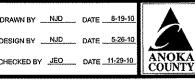
	BASIS OF QUANTITIES							
SPEC NO	DESCRIPTION	RATE						
2360.521	TYPE SP 12.5 MIXTURE (3,F)	115 LBS / SQ YD / IN						
2575.502	SEED MIXTURE 240	75 LBS / ACRE						
2575.571	RAPID STABILIZATION METHOD 3	6 M GALLONS / ACRE						
2575.531	FERTILIZER TYPE 3	400 LBS / ACRE						

INDEX OF TABULATION CHARTS					
TAB.	DESCRIPTION	SHEET NO.			
Α	EARTHWORK SUMMARY	6			
В	REMOVALS & SAWING	5			
С	SALVAGE SIGNS	26			
D	CHAIN LINK FENCE	5			
E	CONCRETE SUMMARY	5			
F	TRUNCATED DOMES	5			
G	BITUMINOUS SUMMARY	5			
Н	TURF ESTABLISHMENT AND EROSION CONTROL	5			
Ī	SIGN PANELS TYPE C	26			
J	STRIPING SUMMARY	26			
K	TRAFFIC BARRIER	5			
AA	PRIVATE UTILITY OWNERS	4			
ВВ	ANOKA COUNTY- INTERCONNECT	4			
CC	ANOKA - POWER LINE	4			
DD	CONNEXUS ENERGY	4			
EE	QWEST	4			

	12-28-10	NJD	NJD	CAK	UPDATED ESTIMATED QUANTITY COLUMNS		_
							ı
***************************************							ı
		******					ı
		***************************************					ı
NO	DATE	BY	CKD	APPR	REVISION		ı
NAMF:	P114 PFOIPlant	4 PED SI	C1.dan		12/28/2010	11:36:30 AM	ı

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.

PRINT NAME: CURT A KOBILARCSK
SIGNATURE: CLASS CONTROL LICENSE NO. 24756



ANOKA COUNTY HIGHWAY DEPT.

02-614-37 STATE AID PROJECT NO. 06-48 COON RAPIDS CITY NO. 114-020-40 MN STATE PROJECT NO. _

STATEMENT OF ESTIMATED QUANTITIES

Sheet 2 of 51 Sheets

SOILS & CONSTRUCTION NOTES

- 1. SUITABLE GRADING MATERIAL CONSISTS OF MINERAL SOILS WHICH ARE FREE OF ORGANIC CONTENT AND DEBRIS, ARE NON-EXPANSIVE, AND ARE IN A CONDITION WHICH CAN MEET SPECIFIED COMPACTION LEVELS.
- 2. SLOPE DRESSING ON THE PROJECT IS DEFINED AS THE TOPSOIL OR OTHER SOIL PLACED DURING PRIOR CONSTRUCTION TO PROVIDE A MEDIUM FOR ESTABLISHING TURF. THESE SOILS MAY NOT MEET THE MINIMUM ORGANIC CONTENT AND OTHER REQUIREMENTS FOR TOPSOIL BORROW
- 3. ALL TOPSOIL STRIPPING WILL BE CONSIDERED TO BE COMMON EXCAVATION.
- 4. TOPSOIL SHALL BE DEFINED AS EXISTING SOILS WHICH MEET MN/DOT THE STUFF 3877 THAT WOULD BE SUITABLE FOR REUSE.
- 5. SLOPE DRESSING ON THE PROJECT IS DEFINED AS THE TOPSOIL OR OTHER SOIL PLACED DURING PRIOR CONSTRUCTION TO PROVIDE A MEDIUM FOR ESTABLISHING TURF.
- 6. UNSUITABLE SOILS ARE DEFINED AS SOILS WHICH DO NOT MEET OR ARE NOT MANUFACTURED TO MEET ANY OF THE ABOVE DEFINED CATEGORIES, AND ARE THEREFORE NOT REUSABLE AS STRUCTURAL BACKFILL OR EMBANKMENT WITHIN THE ROADWAY CORE.
- 7. AGGREGATE BASE MATERIAL SHALL BE CRUSHED AND MEET THE REQUIREMENTS OF MN/DOT SPEC. 3138, CLASS 5.
- 8. EMBANKMENT CONSTRUCTION SHALL BE PERFORMED AS REQUIRED BY MN/DOT SPECIFICATION 2105
- 9. ANY DEBRIS WHICH MAY BE ENCOUNTERED DURING GRADING SHALL BECOME PROPERTY OF THE CONTRACTOR AND DISPOSED OF OFF THE PROJECT RIGHT OF WAY IN A SUITABLE DISPOSAL AREA AS APPROVED BY THE ENGINEER.
- 10. UNSUITABLE SOILS NOT USED ON THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE PROJECT AND DISPOSED OF IN ACCORDANCE WITH MN/DOT SPECIFICATIONS.
- 11. UNLESS OTHERWISE SPECIFICALLY ALLOWED OR REQUIRED BY THE CONTRACT, BITUMINOUS AND CONCRETE ITEMS DISTURBED BY CONSTRUCTION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE RECYCLED TO THE EXTENT ALLOWED IN BASE AND SURFACING ITEMS OR DISPOSED OF OUTSIDE THE RIGHT-OF-WAY IN ACCORDANCE WITH SPEC. 2104.3C3.
- 12. STRIP ALL TOPSOIL AND INPLACE SLOPE DRESSING WHERE PRESENT IN AREAS TO BE DISTURBED BY CONSTRUCTION AND REUSE AS SLOPE DRESSING. FOR ESTIMATING PURPOSES, THE DEPTH OF TOPSOIL AVAILABLE IS CONSIDERED TO BE 4 INCHES. CONTRACTOR TO VERIFY PRIOR TO PLACING BID
- 13. PROVIDE A SAWCUT WHERE PLACING NEW PAVEMENT ADJACENT TO INPLACE PAVEMENT TO ENSURE A UNIFORM JOINT.
- 14. THE CONSTRUCTION LIMITS AS SHOWN IN THE PLANS REPRESENT THE POINT OF INTERSECTION BETWEEN THE REQUIRED FILL OR CUT SLOPE AND THE EXISTING GROUND LINE AS DEPICTED ON THE CROSS SECTIONS. THE CONSTRUCTION LIMITS DO NOT INCLUDE AREAS REQUIRED FOR SLOPE ROUNDING.
- 15. USE TACK COAT BETWEEN ALL BITUMINOUS MIXTURES AND PRIOR TO PLACING ANY BITUMINOUS MIXTURES ON THE EXISTING PAVEMENT. THE BITUMINOUS TACK COAT MATERIAL SHALL BE APPLIED AT A UNIFORM RATE OF 0.03 TO 0.05 GALLONS/SQ. YD. BETWEEN BITUMINOUS LAYERS AND 0.07 TO 0.10 GALLONS/SQ. YD. ON CONCRETE OR MILLED BITUMINOUS SURFACES PRIOR TO BEING OVERLAID. THE APPLICATION RATES ARE FOR UNDILLUTED EMULSIONS (AS SUPPLIED FROM THE REFINERY) OR MC AND RC LIQUID ASPHALTS. THE ASPHALT EMULSION MAY BE FURTHER DILLITED IN THE FIELD IN ACCORDANCE WITH SPECIFICATION 2357.
- 16. ALL BITUMINOUS MIXTURES SHALL CONFORM TO MNDOT SPEC 2360
- 17. DITCH BOTTOMS, TOE OF FILL, CUT RUNOUTS AND THE TOP EDGE OF THE BACKSLOPES SHALL BE ROUNDED REGARDLESS OF THE SECTION USED ON THE CROSS SECTION SHEETS.
- 18. COMPACTION OF ALL AGGREGATE BASE, GRANULAR, AND SELECT GRANULAR MATERIAL SHOULD BE IN ACCORDANCE WITH MN/DOT "QUALITY COMPACTION METHOD"
- 19. COMPACTION OF ALL PERMANENT BITUMINOUS MIXTURES SHALL BE THE "MAXIMUM DENSITY METHOD"

NO	DATE	RY	CKD	APPR	REVISION	I HEREBY CERTIFY THAT THI OR UNDER MY DIRECT SUPE LICENSED PROFESSIONAL E THE STATE OF MINNESOTA. PRINT NAME: CURT A KC SIGNATURE:
NO	DATE	BY	CKD	APPR		12-9-10
NAME: (o:\14_ped\plan\14	_PED_SC	N.dgn		12/01/2010 2:13:57 PM	DATE: 22 TOTAL

IHEREBY 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.

PRINT NAME: CURT A. KOBILARCSIK

___ LICENSE NO. 24756

 DRAWN BY
 NJD
 DATE
 8-19-10

 DESIGN BY
 NJD
 DATE
 5-26-10

 CHECKED BY
 JEO
 DATE
 11-29-10



ANOKA COUNTY HIGHWAY DEPT. 02-614-37 06-48 114-020-40

SOILS & CONSTRUCTION NOTES

Sheet 3 of 51 Sheets

PRIVATE UTILITY OWNERS | AA

CENTER POINT ENERGY ACCESS COMMUNICATION TECH

TEL. (866)-861-7678 TEL. (763)-545-9998

ANOKA COUNTY **QWEST**

TEL. (866)-861-7678 TEL. (763)-862-4234 XCEL ENERGY CITY OF ANOKA TEL. (800)-762-0592 TEL. (763)-576-2902

CITY OF COON RAPIDS

TEL. (952)-607-4084 TEL. (763)-767-6462

CONNEXUS ENERGY (763)-323-4216

GENERAL UTILITY NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO UTILIZE THE GOPHER STATE ONE CALL EXCAVATION NOTICE SYSTEM REQUIRED BY MINNESOTA STATUTE, CHAPTER 216D FOR ALL UNDERGROUND UTILITY LOCATIONS.

COMCAST

2. THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY 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".

3. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES

4. ALL PRIVATE IRRIGATION SYSTEMS DISTURBED BY CONSTRUCTION LIMITS SHALL BE REPLACED AND REINSTALLED AS DIRECTED BY THE CITY (THE CONTRACTOR SHALL TAKE CARE TO PROTECT OR SALVAGE IRRIGATION SYSTEM COMPONENETS WITHIN THE CONSTRUCTION LIMITS)

GENERAL REMOVAL NOTES

- 1. SEE SIGNING & STRIPING PLAN SHEETS 25 26 FOR SIGN REMOVAL AND REPLACEMENT
- 2. THE CONTRACTOR SHALL PROTECT ANY TREES, FENCING, OR OTHER LANDSCAPING WITHIN THE RIGHT-OF-WAY UNLESS OTHERWISE NOTED IN THE PLANS.
- 3. CONTRACTOR TO VERIFY REMOVAL LIMITS WITH ENGINEER PRIOR TO SAWCUTTING.
- 4. PROTECT ALL EXISTING STORM SEWER MANHOLES AND CATCHBASINS.

ANOK	BB			
STA	TION	OFFSET	SIZE & ITEM	REMARKS
BEGIN	END		SIZE & ITEM	
100+00		LT	INTERCONNECT	LEAVE AS IS
100+00	***************************************	RT	INTERCONNECT	LEAVE AS IS
100+00	100+19	RT - LT	INTERCONNECT	LEAVE AS IS
100+19	102+07	LT	INTERCONNECT	LEAVE AS IS
102+07	104+00	LT	INTERCONNECT	LEAVE AS IS
104+00	106+00	LT	INTERCONNECT	LEAVE AS IS
106+00	108+00	LT	INTERCONNECT	LEAVE AS IS
108+00	110+00	LT - RT	INTERCONNECT	LEAVE AS IS
110+00	112+72	RT	INTERCONNECT	LEAVE AS IS
112+72	114+40	RT - LT	INTERCONNECT	LEAVE AS IS
114+40	116+12	LT	INTERCONNECT	LEAVE AS IS
116+12	117+37	LT	INTERCONNECT	LEAVE AS IS
117+37	119+16	LT	INTERCONNECT	LEAVE AS IS
119+16	120+59	LT - RT	INTERCONNECT	LEAVE AS IS

	ANOKA - POWER LINE							
STAT	TION	OFFSET	SIZE & ITEM	REMARKS				
BEGIN	END		SIZE & ITEM					
101+51	103+14	LT	POWER LINE	LEAVE AS IS				
103+14	104+79	LT	POWER LINE	LEAVE AS IS				
104+79	106+49	LT	POWER LINE	LEAVE AS IS				
106+49	108+15	LT	POWER LINE	LEAVE AS IS				
108+15	109+80	LT - RT	POWER LINE	LEAVE AS IS				
109+80	112+99	RT-LT	POWER LINE	LEAVE AS IS				
112+99	114+58	LT	POWER LINE	LEAVE AS IS				
114+58	116+22	LT	POWER LINE	LEAVE AS IS				
116+22	117+85	LT	POWER LINE	LEAVE AS IS				
117+85	119+50	LT	POWER LINE	LEAVE AS IS				

	DD			
STAT	ION	OFFEET	SIZE & ITEM	REMARKS
BEGIN	END	OFFSET	SIZE OCH EIN	REWARNS
118+53		OH	OHP	LEAVE AS IS
118+55		ОН	OHP	LEAVE AS IS
118+64		ОН	OHP	LEAVE AS IS
118+65		ОН	OHP	LEAVE AS IS
119+54		LT - RT	P-BUR	LEAVE AS IS
120+60		LT-RT	P-BUR	LEAVE AS IS
120+85		LT - RT	P-BUR	LEAVE AS IS

	EE			
STA	REMARKS			
BEGIN	END	OFFSET	SIZE & ITEM	NEWNINO
100+07.50	120+59.16	RT	CABLE	LEAVE AS IS
120+52.09		RT	VAULT	LEAVE AS IS
120+59.16		RT	VAULT	LEAVE AS IS

		1	1	l		
		 				
1		Į		ļ		
						
		l .	l	1		
		 				
1		1	1	1		
		 				
1		1	1	1		
		-				
NO	DATE	BY	CKD	APPR	REVISION	
NAME: n	dia pedipian'i	4 PED SE	Q1.dan	12/01/2010	2:13:54 PM	
777 (111-11-11-11-11-11-11-11-11-11-11-11-11						

THEREBY 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: 12-9-10 ____ LICENSE NO. _24756

DRAWN BY NJD DATE 8-19-10 DESIGN BY NJD DATE 5-26-10 CHECKED BY JEO DATE 11-29-10



ANOKA COUNTY HIGHWAY DEPT.

STATE AID PROJECT NO.	02-614-37
COON RAPIDS CITY NO.	06-48
MN STATE PROJECT NO.	114-020-40

UTILITY TABULATIONS

Sheet 4 of 51 Sheets

REMOVALS & SAWING									В
STATION	то	STATION	i	RITHMINOUS	SAWING (SPEC. 2104) BITUMINOUS PAVEMENT (LIN FT)	CONC. CURB & GUTTER (LIN FT)	REMOVE (SPEC. 2104) GUARD RAIL [2] (LIN FT)	CONCRETE SLAB [1] (SQ YD)	NOTES
110+00.00						25		17	
108+50.43	-	110+08.46				159	115		
108+50.59	-	109+72.24		301	122				
112+56.97	-	115+36.39				280	110		
112+73.19		115+36.39		740	263				
120+59.16						20		6	
			4						
PROJECT	TOTA	i i		1041	385	484	225	23	

TRUNCATED DOMES						
STATION	OFFSET EB	DESCRIPTION	SQ F			
100+00	RIGHT	PEDESTRIAN RAMP	16			
120+59.16	RIGHT	PEDESTRIAN RAMP	16			
		TOTAL	32			

CHAIN LINK FENCE						
STATION	OFFSET	WIRE FENCE DESIGN 60V-9322 (SPEC 2557) (LIN FT)	NOTES			
101+47.00 - 110+08.00	LT	860				
112+57.00 - 119-96.00	LT	739				

REMOVAL NOTES:

- [1] ITEM FOR REMOVAL OF EXISTING PEDESTRIAN CURB RAMPS
- [2] QUANTITY INCLUDES REMOVAL OF ANCHORAGE ASSEMBLIES AND RADIUS NOSE SECTIONS
- [3] ASSUMED PAVEMENT DEPTH OF 6" FOR INFORMATION ONLY. CONTRACTOR TO VERIFY PRIOR TO PLACING BID.

	TURF ESTABLISHMENT AND EROSION CONTROL								Н			
		STORM	SOD TYPE		P	ERMANENT EF	ROSION CON	TROL		TEMPORARY EROSION CONTROL		
I	OCATIO	N	SILT FENCE	DRAIN INLET PROTECTION	SALT RESISTANT	SEEDING	SEED MIXTURE 240	EROSION CONTROL BLANKET CAT. 3	RANDOM RIPRAP CLASS II	GEOTEXTILE FABRIC TYPE III [1]	EEDTH 1758	RAPID STABILIZATION METHOD 3
STATION	TO	STATION	LIN FT	EACH	SQ YD	ACRE	POUND	SQ YD	CU YD	SQ YD	POUND	M GAL.
100+00.00		110+10.07	1006	1		0.58	44	2795	11	22	232	3.6
100+00.00		110+10.07		2	626						52	
112+95.11		120+59.16	820	1		0.48	36	2354	5	15	192	3.0
112+95.11	-	120+59.16		2	593						48	
PROJECT TOTA	\T		1826	6	1219	1.06	80	5149	16	37	524	6.6

TURF ESTABLISHMENT NOTES:

[1] THE GEOTEXTILE FABRIC SHOULD COVER THE AREA OF THE RIPRAP AND EXTEND 1.0' UNDER THE WEST FLUME AND 3.0' UNDER THE EAST FLUME.

BITU	BITUMINOUS SUMMARY							
STATION	то	STATION	2360 TYPE SP 12.5 WEAR (SPWEB340F) [3]	NOTES				
			TON					
108+50.43	-	109+73.84	8	[1], [2]				
112+73.19	+	115+36.36	17	[1], [2]				
		TOTAL	25					

BITUMINOUS SUMMARY NOTES:

- [1] TO BE USED AS A PACTHING MATERIAL BETWEEN LIP OF PROPOSED CURB AND SAWCUT
- [2] BITUMINOUS TACK COAT INCIDENTAL (IF NECESSARY)
 [3] QUANTITY BASED ON PROPOSED ASSUMED DEPTH OF 6 INCHES

TRAFFIC BARRIER									
		TRAFFIC BARRIER [1]							
LOCATION	DESIGN SPECIAL [1]	SPECIAL DESIGN B8338		IMPACT ATTENUATOR BARRELS	PORTABLE CONCRETE BARRIER DESIGN 8337	SNOW PLOW MARKER X4-5 [3]	NOTES		
STATION TO STATION	LIN FT	LIN FT	EACH	EACH	LINFT	EACH			
108+35.53 - 109+75.53	25	85	1	11	288	1			
112+75.12 - 113+76.54	25	45	1	11	287	1			
PROJECT TOTAL	50	130	2	22	575	2			

TRAFFIC BARRIER NOTES:

- [1] QUANTITY INCLUDED FOR TRANSITION TO BRIDGE RAILING
- [2] IMPACT ATTENUATOR SHALL BE THE CRASH-CUSHION/ATTENUATING TERMINAL, (CAT) SYSTEM MANUFACTURED BY TRINITY INDUSTRIES, INC., DALLAS TX
- [3] SNOW PLOW MARKERS INCIDENTAL TO ITEM 2554.615 IMPACT ATTENUATOR.
- [4] QUANTITY DOES NOT INCLUDE LENGTH REQUIRED FOR IMPACT ATTENUATOR

				<u></u>		
NO	DATE	BY	CKD	APPR	REVISION	
NAME:	P:\14_PED\Plan	14_PED_S	EQ1.dgn		12/09/2010	11:13:30 AM

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: 12-9-10 LICENSE NO. 24756

DRAWN BY NJD DATE 8-19-1 DESIGN BY NJD DATE 5-26-10 CHECKED BY JEO DATE 11-29-10



ANOKA COUNTY HIGHWAY DEPT.

02-614-37 STATE AID PROJECT NO. 06-48 COON RAPIDS CITY NO. 114-020-40 MN STATE PROJECT NO. _

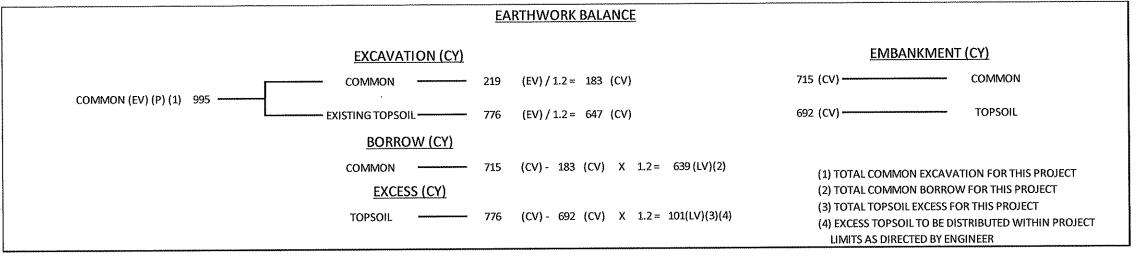
TABULATIONS

Sheet 5 of 51 Sheets

	EXCAVATION	EMBANKMENT		
STATION	COMMON (C.Y.)	SLOPE DRESSING (C.Y.)	SUITABLE GRADING (C.Y.)	
100+00.00				
100+19.13	6	3	0	
100+50.00	13	7	0	
101+00.00	20	10	0	
101+51.27	20	11	3	
102+06.99	20	12	7	
102+50.00	16	11	6	
103+00.00	24	15	8	
103+14.52	8	5	2	
103+50.00	20	13	3	
103+96.50	27	20	5	
104+50.00	34	26	12	
104+79.11	20	16	14	
105+00.00	16	12	21	
105+50.00	37	31	60	
105+95.64	39	30	24	
106+49.28	66	37	3	
107+00.00	62	35	2	
107+50.00	39	28	5	
107+94.79	28	19	4	
108+14.50	12	6	1	
108+50.00	17	9	1	
109+00.00	17	8	2	
109+50.00	22	7	2	
109+75.97	17	3	0	
109+80.08	1	0	0	
109+95.37	2	1	0	
110+08.13	1	1	1	
112+71.90	32	20	13	
112+78.74	0	0	0	
112+98.51	2	1	1	
113+50.00	9	5	5	
114+00.00	29	27	16	
114+41.53	39	39	73	
114+57.84	15	15	48	
115+00.00	40	38	114	
115+50.00	46	44	113	
116+11.59	46	43	78	
116+22.04	5	4	5	
117+00.00	29	21	29	
117+36.48	12	9	10	
117+50.00	5	3	3	
117+84.46	11	7	6	
118+00.00	5	3	2	
118+53.69	23	10	2	
118+64.96	5	2	0	
119+00.00	11	7	1	
119+16.25	4	3	11	
119+50.00	9	6	4	
120+00.00	14	9	5	

THE ANGELLA CHECKELLY

EARTHW	EARTHWORK SUMMARY A						
	EXCAVATION TOTALS	EMBAN VOLU					
STATION	COMMON (C.Y.)	SLOPE DRESSING (C.Y.)	SUITABLE GRADING (C.Y.)				
PROJECT TOTAL	995	692	715				



NOTES:

ASSUMED 120% SHRINKAGE FACTOR USED FROM EXCAVATED VOLUME (EV) TO COMPACTED VOLUME (CV). SHRINKAGE FACTORS ARE ASSUMED VALUES, USED ONLY FOR THE PURPOSE OF ESTIMATED QUANTITIES. IT SHALL BE UNDERSTOOD THAT NO WARRANTY IS MADE OR IMPLIED AS TO THE ACCURACY, SUFFICIENCY, OR RELIABILITY OF SHRINKAGE FACTORS.

SEE SOILS AND CONSTRUCTION NOTES FOR MATERIAL DEFINITIONS AND ADDITIONAL INFORMATION

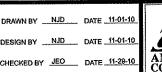
ALL MATERIAL NOT USED ON THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT LIMITS WITH NO DIRECT PAYMENT THEREFORE. THE MATERIAL QUANTITY IS BASED ON ESTIMATED QUANTITIES. DISPOSAL SHALL BE IN ACCORDANCE WITH SPEC. 2105

THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER BEFORE HAULING MATERIAL OFF SITE.

	<u> </u>					
				j		

			***************************************		PERMICH	
NO	DATE	BY	CKD	APPR	REVISION	
NAME: 0	x\14 ped\plan\14	PED_EW	1.dgn	12/01/2010 2:14:00 PM		
	NAME: p:14_pediplant14_PED_EW1.dgn 12/01/2010 2:14:00 PM					

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.
PRINT NAME: CURT A. KOBILARCSIK
SIGNATURE: LICENSE NO. 24756



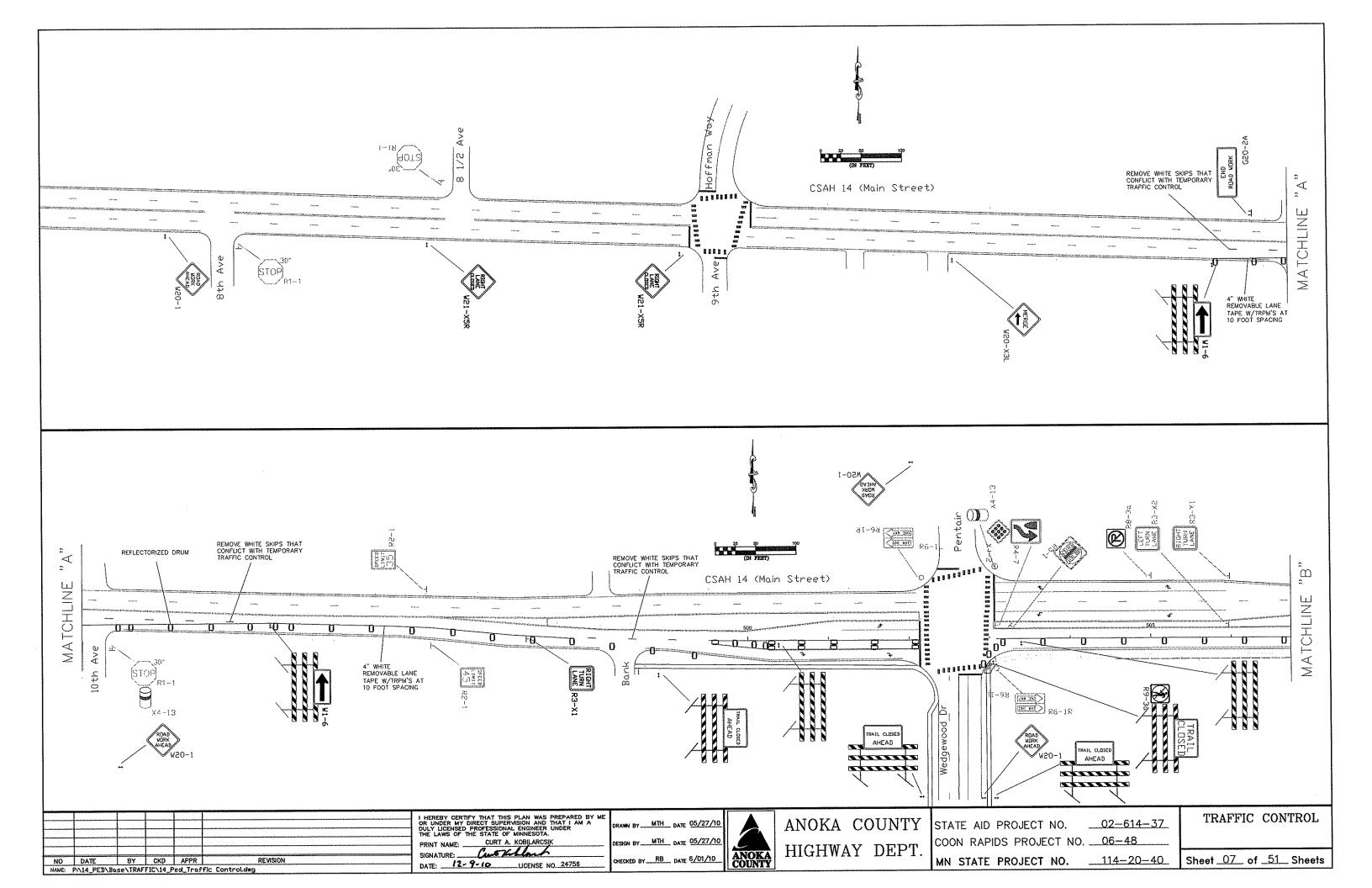
ANOKA COUNTY HIGHWAY DEPT.
 STATE AID PROJECT NO.
 02-614-37

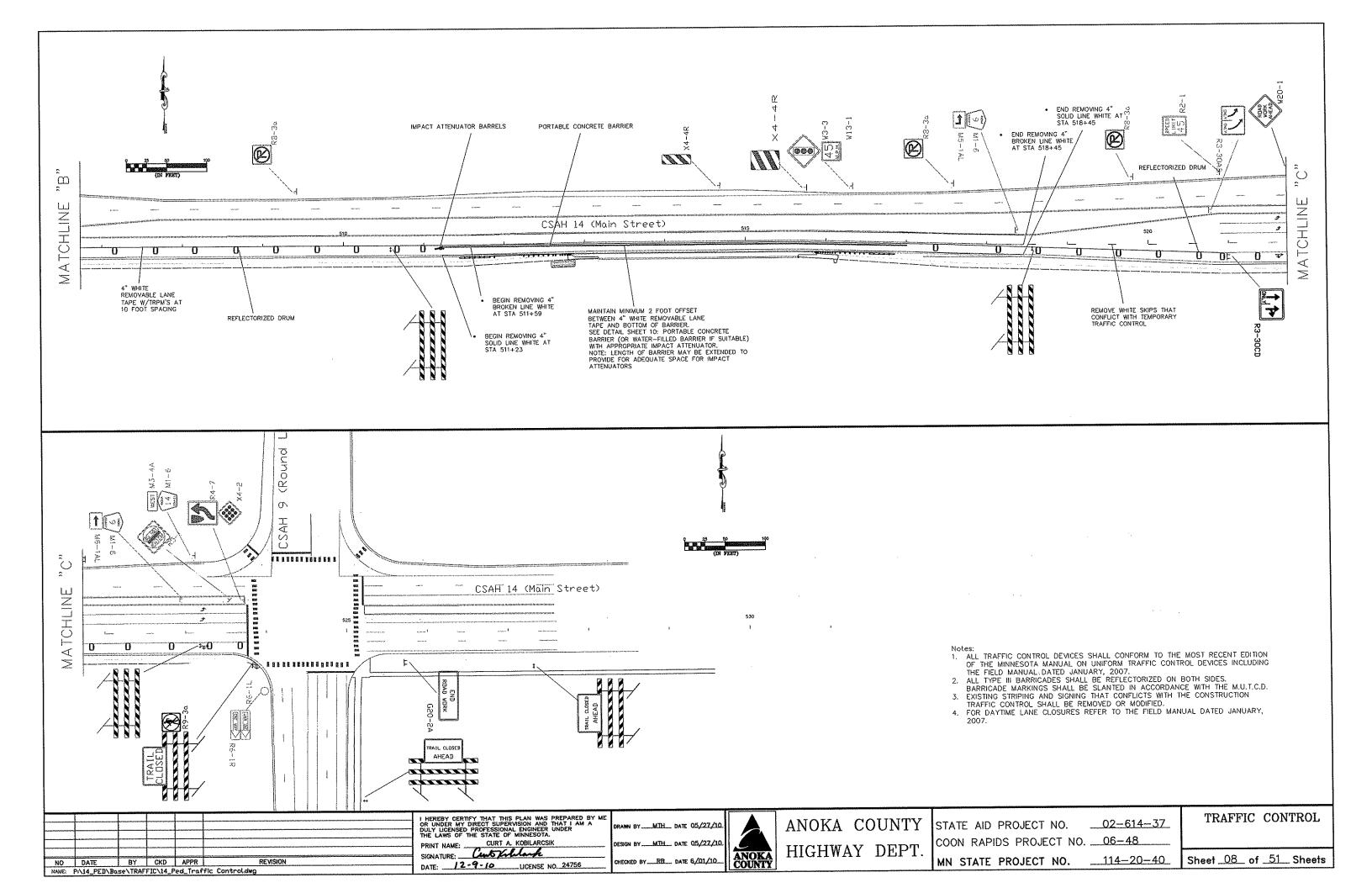
 COON RAPIDS CITY NO.
 06-48

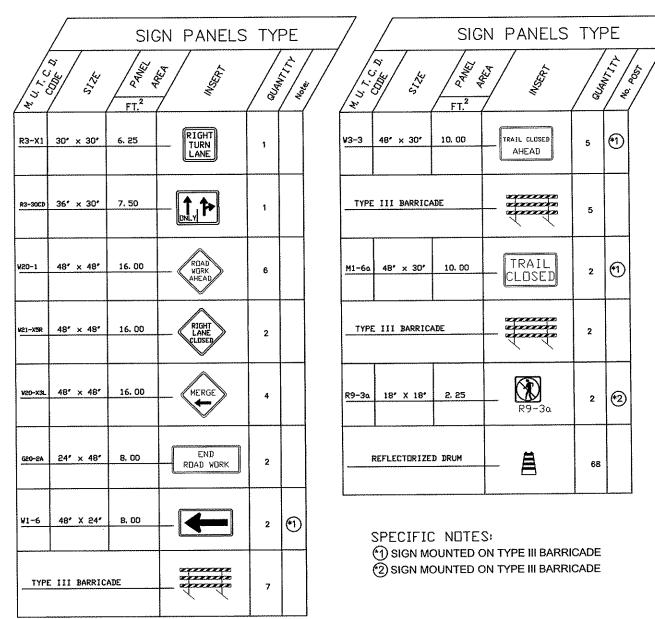
 MN STATE PROJECT NO.
 114-020-40

EARTHWORK SUMMARY

Sheet 6 of 51 Sheets







- General Notes:

 1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING THE FIELD MANUAL DATED JANUARY, 2007.
- 2. ALL TYPE III BARRICADES SHALL BE REFLECTORIZED ON BOTH SIDES. BARRICADE MARKINGS SHALL BE SLANTED IN ACCORDANCE WITH THE M.U.T.C.D.
- 3. EXISTING STRIPING AND SIGNING THAT CONFLICTS WITH THE CONSTRUCTION TRAFFIC CONTROL SHALL BE REMOVED OR MODIFIED.
- 4. FOR DAYTIME LANE CLOSURES REFER TO THE FIELD MANUAL DATED JANUARY, 2007.

TEMPORARY P	AVEME	NT MAF	KINGS	
STAGE	WHITE TRPM	REMOVE PAVEMENT MARKING TEMPORARY	TEMPORARY LANE MARKING WHITE	NOTES
	EACH	LIN FT	LIN FT	
CONSTRUCTION STAGE 1	300	160	2993	
TOTALS	300	160	2993	

NOTES

Merge traffic to left through lane. Close right through lane to complete sidewalk construction.

Temporary Pavement Marking Removal, Temporary Lane Marking and TRPM's are incidental to Traffic Control.

						I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A
<u> </u>			 			DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 	 	 	 			DUDT A MODULADORM
 			 			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
NO	DATE	BY	CKD	APPR	REVISION	SIGNATURE:
NAME:	Pi\14_PED\B	ase\TRAF	FIC\14_F	ed_Traf	fic Controlidwg	DATE: 12-4-70 LICENSE NO. 24/38

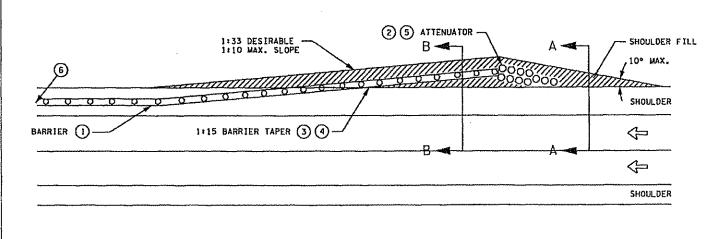
AWN BY ___MTH__ DATE Q5/27/10.

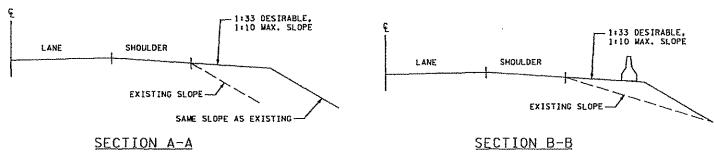


ANOKA COUNTY HIGHWAY DEPT.

STATE AID PROJECT NO. __02-614-37 COON RAPIDS PROJECT NO. __06-48_____ MN STATE PROJECT NO. __114-20-40_ TRAFFIC CONTROL

Sheet <u>09</u> of <u>51</u> Sheets



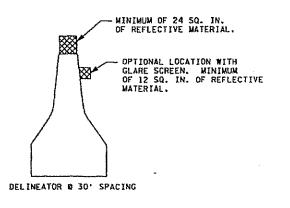


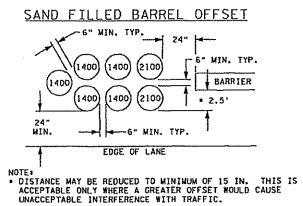
- IT IS DESIRABLE TO MAINTAIN FULL SHOULDER WIDTH WHENEVER POSSIBLE. IF NOT POSSIBLE,
 MINIMUM DESIRABLE LATERAL OFFSETS ARE BASED ON THE FOLLOWING POSTED SPEEDS:

 TO MPH 12.0 FEET
 6D MPH 8.0 FEET
 5D MPH 6.5 FEET
 40 MPH 5.0 FEET
 FOR RESTRICTED CONDITIONS, LESSER OFFSETS MAY BE USED. THE DFFSETS SHOULD BE A MINIMUM DF 2 FEET UNLESS THE CONDITIONS ARE EXTREME. LATERAL DFFSETS ARE MEASURED TO THE BOTTOM OF THE BARRIER. BARRIER OFFSET FROM EDGE OF THRU LANE SHOULD NOT EXCEED 15 FEET.
- (2) DESIRABLE TREATMENTS FOR EXPOSED BARRIER ENDS ARE; A CONNECTION TO EXISTING BARRIER; IMPACT ATTENDATOR; TAPER AWAY TO THE EDGE OF THE CLEAR ZONE; AND EXTENDING THROUGH A PLATE BEAM GUARDRAIL BY REMOVING A PANEL.
- (3) A 1:10 TAPER MAY BE USED WHEN POSTED SPEED LIMIT IS 35 MPH OR LESS.
- (4) IF THE BARRIER IS TO BE EXTENDED BEYOND THE SHOULDER, ADDITIONAL FILL WILL BE NEEDED IN ORDER TO PROVIDE A FLAT (1:33) APPROACH AREA TO THE BARRIER. FILL WILL BE INCIDENTAL TO BARRIER AND/OR IMPACT ATTENUATOR.
- THE IMPACT ATTENUATOR SHOULD BE OFFSET A MINIMUM OF 2 FT. FROM THE EDGE OF THE THRU LANE (SEE SAND BARREL OFFSET DETAIL). THE IMPACT ATTENUATOR SHOULD BE ORIENTED TO ACCOMMODATE THE PROBABLE IMPACT ANGLE OF AN ENCROACHING VEHICLE. FOR MOST ROADSIDE CONDITIONS, AN ANGLE APPROXIMATELY 10 DEGREES, AS MEASURED BETWEEN THE HIGHWAY AND THE IMPACT ATTENUATOR LONGITUDINAL CENTERLINE, IS CONSIDERED APPROPRIATE.
- FOR TWO LANE, TWO WAY TRAFFIC BOTH ENDS OF THE BARRIER SHOULD BE TREATED IN THE SAME (6) MANNER AS DESCRIBED IN (2).

AT THE DIRECTION OF THE ENGINEER, OTHER APPROVED IMPACT ATTENUATORS CAN BE SUBSTITUTED IN LIEU OF THE SAND BARRELS ESPECIALLY WHERE REDIRECTION IS DESIRED OR AT WIDTH

SEE LAYOUT 19A FOR BARREL ARRAY SET UP.





SEE MANUFACTURER INFORMATION FOR PROPER PROCEDURE TO FILL BARRELS WITH SAND.

9/20/05 LAYOUT 19.0CM

PORTABLE CONCRETE BARRIER PLACEMENT AND END TREATMENT

HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY MER UNDER MY DIRECT SUPERVISION AND THAT I AM A PRINT NAME: CURT A. KOBILARCSIK __ REG. NO. ____24756 NO DATE BY CKD APPR REVISION DATE: 12-9-10 P: \02-596-11\Base\Traffic\SIGN&STRIPE_DETAILS.DWG

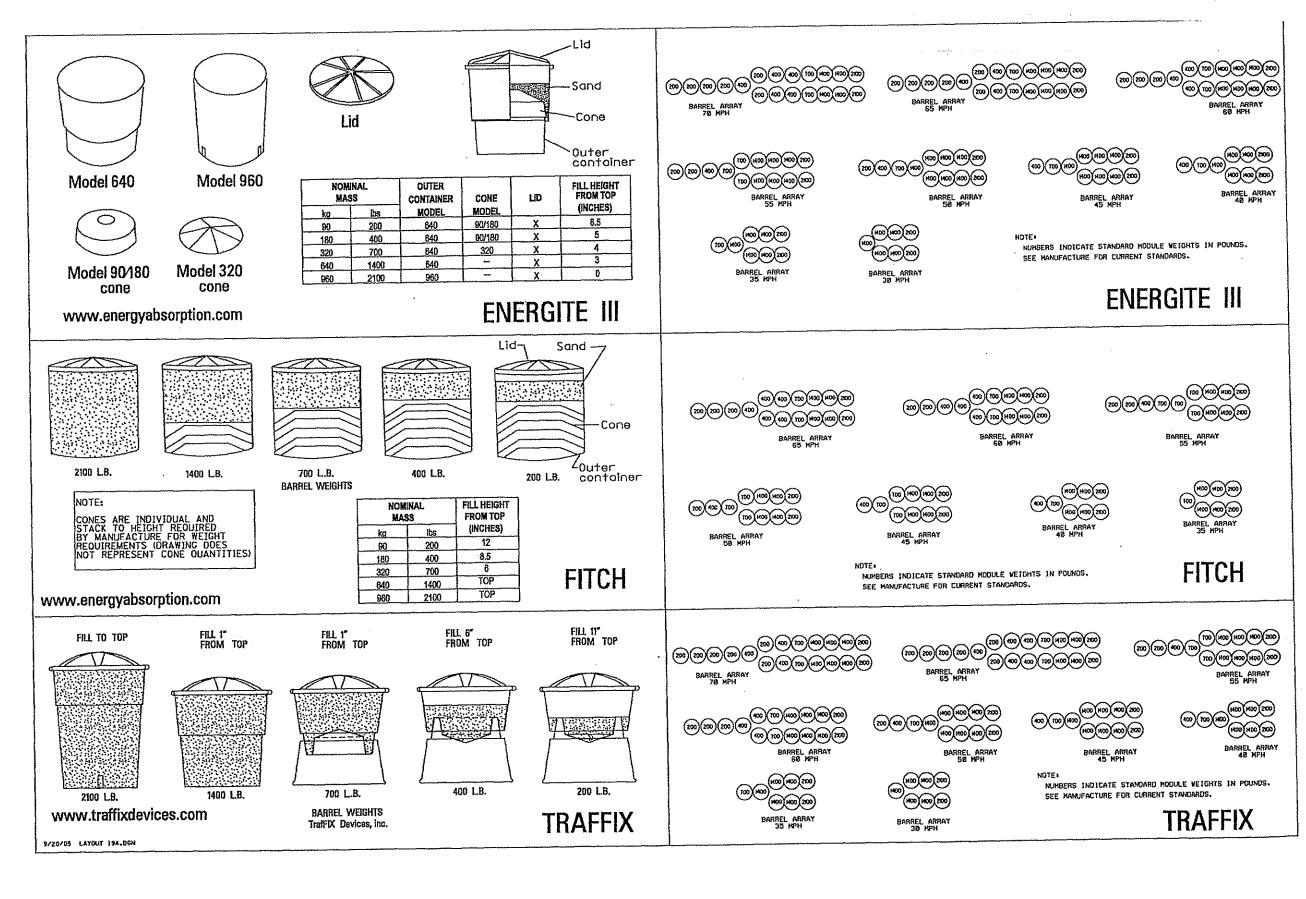
MTH DATE 10/15/10 HECKED BY JR DATE 10/15/10



ANOKA COUNTY HIGHWAY DEPT

02-614-37 STATE AID PROJECT NO. COON RAPIDS PROJECT NO. 06-48 114-20-40 MN STATE PROJECT NO.

PORTABLE CONCRETE BARRIER PLACEMENT AND END TREATMENT DETAILS Sheet 10 of 51 Sheets

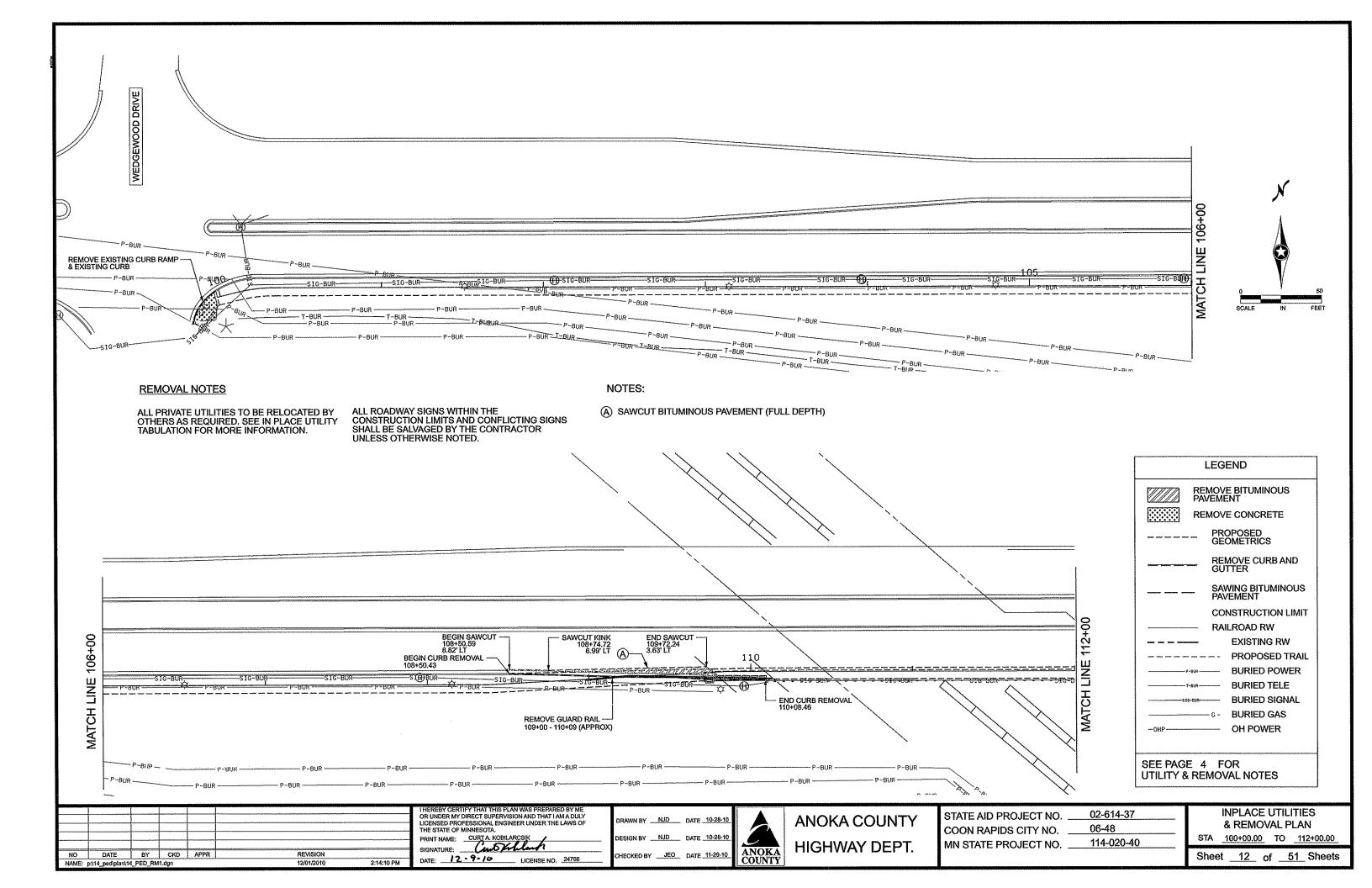


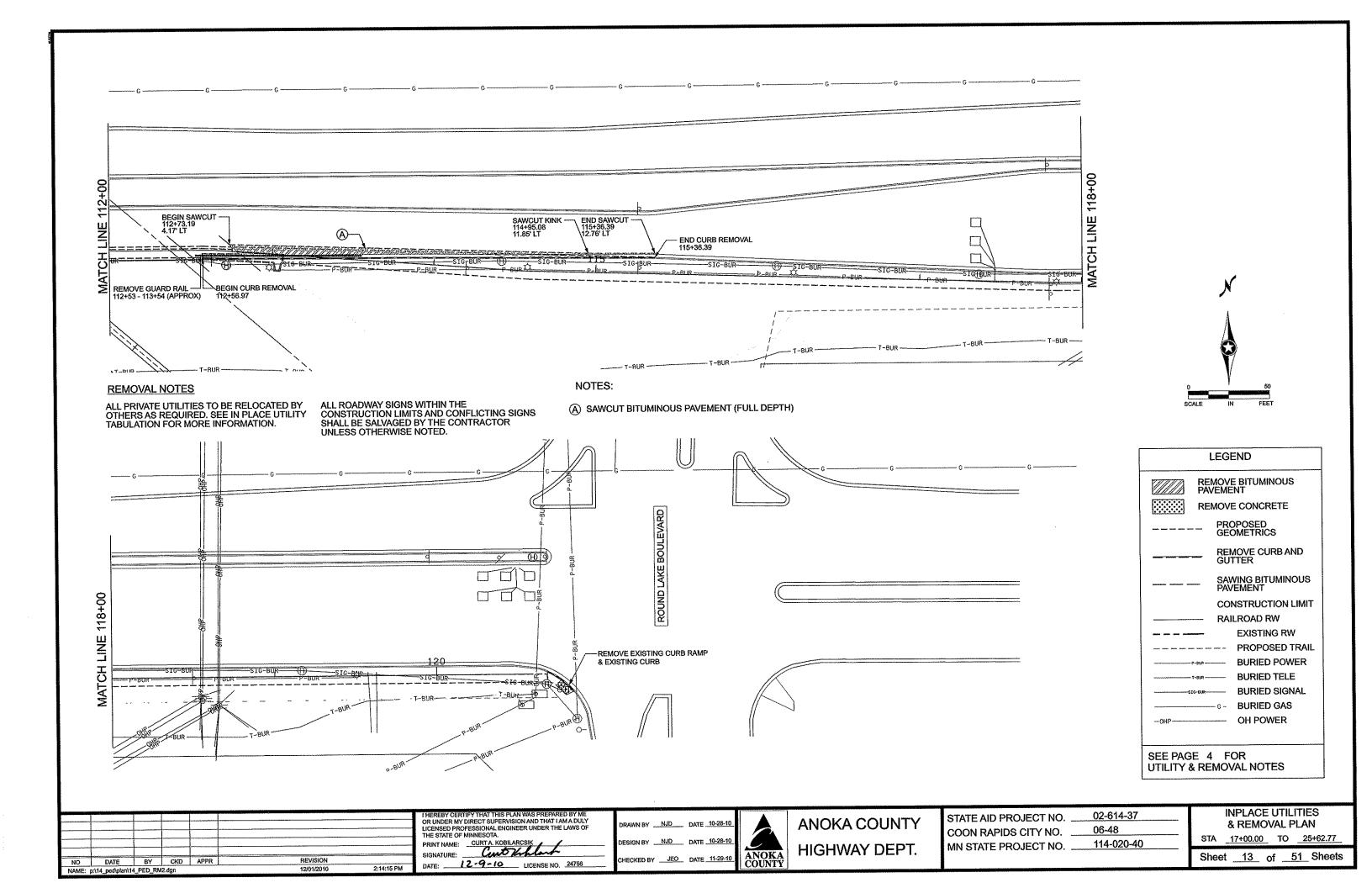
						1 DOLY REGISTERED PROFESSIONAL ENGINEER OFFICE	DRAWN BYMTH DATE10/15/10	
						PRINT NAME: CURT A. KOBILARCSIK	DESIGN BY MTH DATE 10/15/10	
NO	DATE	PΥ	CKD	APPR	REVISION	SIGNATURE:	CHECKED BY JR DATE 10/15/10	ANOKA COUNTY
MAME:	P• \ N2595.	11 \ Rase	\ Traffic\!	SIONASIR	IPE_DETAILS.DWG		<u> </u>	

ANOKA COUNTY HIGHWAY DEPT

02-614-37 STATE AID PROJECT NO. COON RAPIDS PROJECT NO. 06-48 MN STATE PROJECT NO. 114-20-40

PORTABLE CONCRETE BARRIER AND END TREATMENT DETAILS Sheet <u>11</u> of <u>51</u> Sheets



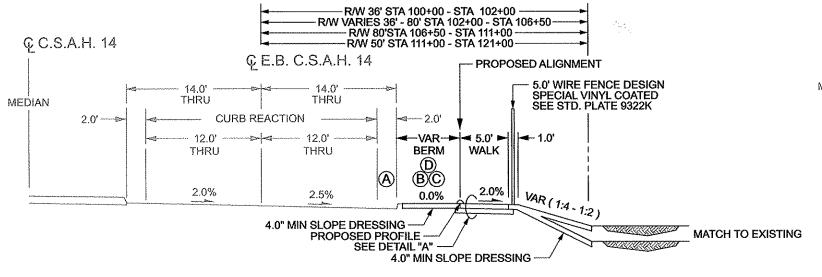


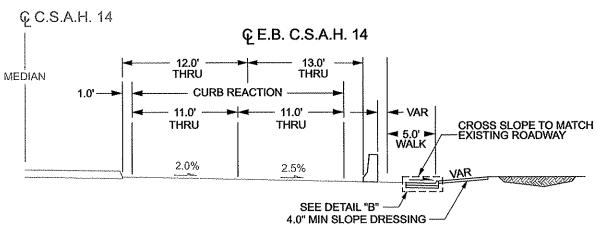
PROPOSED SIDEWALK

STA. 100+00.00 TO STA 109+70.63 STA. 113+06.59 TO STA 120+59.16

PROPOSED BRIDGE APPROACH

STA, 109+70.63 TO STA 110+08.46 STA. 112+56.97 TO STA 113+06.59



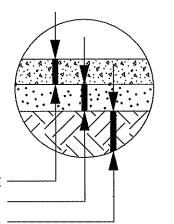


PROPOSED BRIDGE SECTION STA. 110+08.46 TO STA 112+56.97

G C.S.A.H. 14 **G E.B. C.S.A.H. 14** 10.0' FENCE THRU **THRU** MEDIAN **CURB REACTION** 1.00' ~ 2.00 1.50 5.50' WALK 2.0% 2.5% PROPOSED J BARRIER SEE BRIDGE PLAN SHEET 3 - 4

1.00' 5.00' -- VAR.--CONCRETE WALK 4.0" MIN SLOPE DRESSING (C) B412 CURB 4 4 0 4 4 4 0 4 4 4 0 4 4" AGGREGATE BASE LAYER INCIDENTAL TO ITEM 2521.501 - 4" CONCRETE WALK SEE BRIDGE PLAN SHEET 5

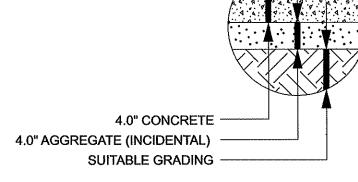
DETAIL "A" CONCRETE WALK



DETAIL "B" CONCRETE WALK SPECIAL

WIDTH VARIES - SEE CONSTRUCTION PLAN SHEETS 22 - 23 FOR EXACT LOCATION FORM A 4.0" CURB BACK ON THE SOUTH EDGE OF CONCRETE TO DIRECT WATER TO FLUME PAID FOR AS ITEM 2521,501 4" CONCRETE WALK SPECIAL 4.0" CONCRETE 4.0" AGGREGATE (INCIDENTAL)

- (A) B412 CURB STA. 108+50.43 TO STA. 109+75.53 AND STA. 112+75.08 TO STA. 115+36.39
- (B) PROPOSED GUARD RAIL STA. 108+35.53 TO STA 109+75.53 AND STA. 112+75.12 TO STA. 113+75.12
- © SOD TYPE SALT RESISTANT
- D BERM WIDTH APPROX. 6' WIDE VARIES FROM STA. 108+38.36 TO STA 114+57.66



NO	DATE	ΒY	CKD	APPR	REVISION	
NAME:	P:\14_PED\Plan\	14_PED_TS	31.dgn		12/09/2010	11:00:18 AM

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. PRINT NAME: CURT A KOBILARCSINSIGNATURE: CULTICALIA DATE: 12-9-10 __ LICENSE NO. _24756

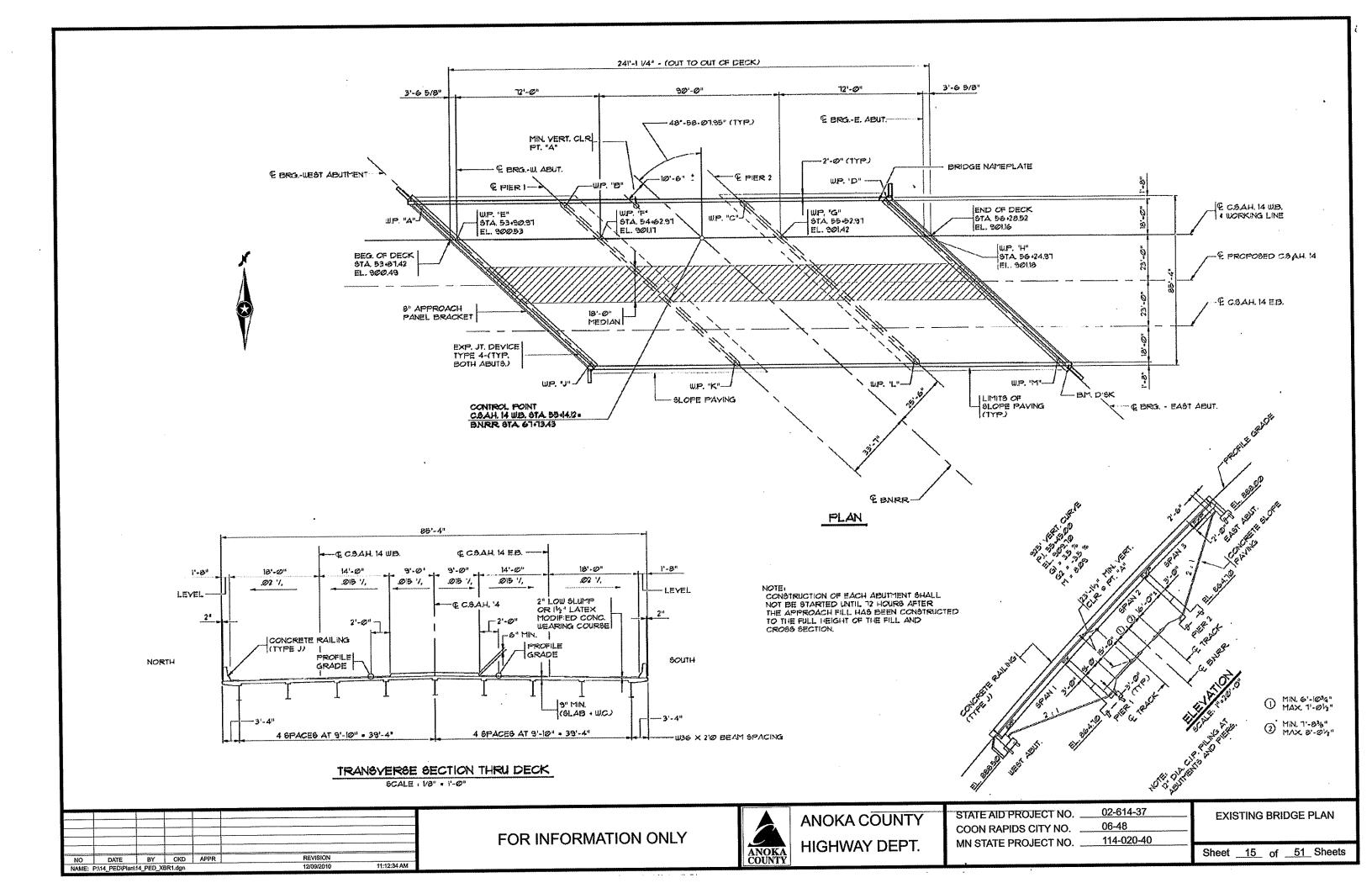
RAWN BY NJD DATE 8-19-10 HECKED BY JEO DATE 11-29-1

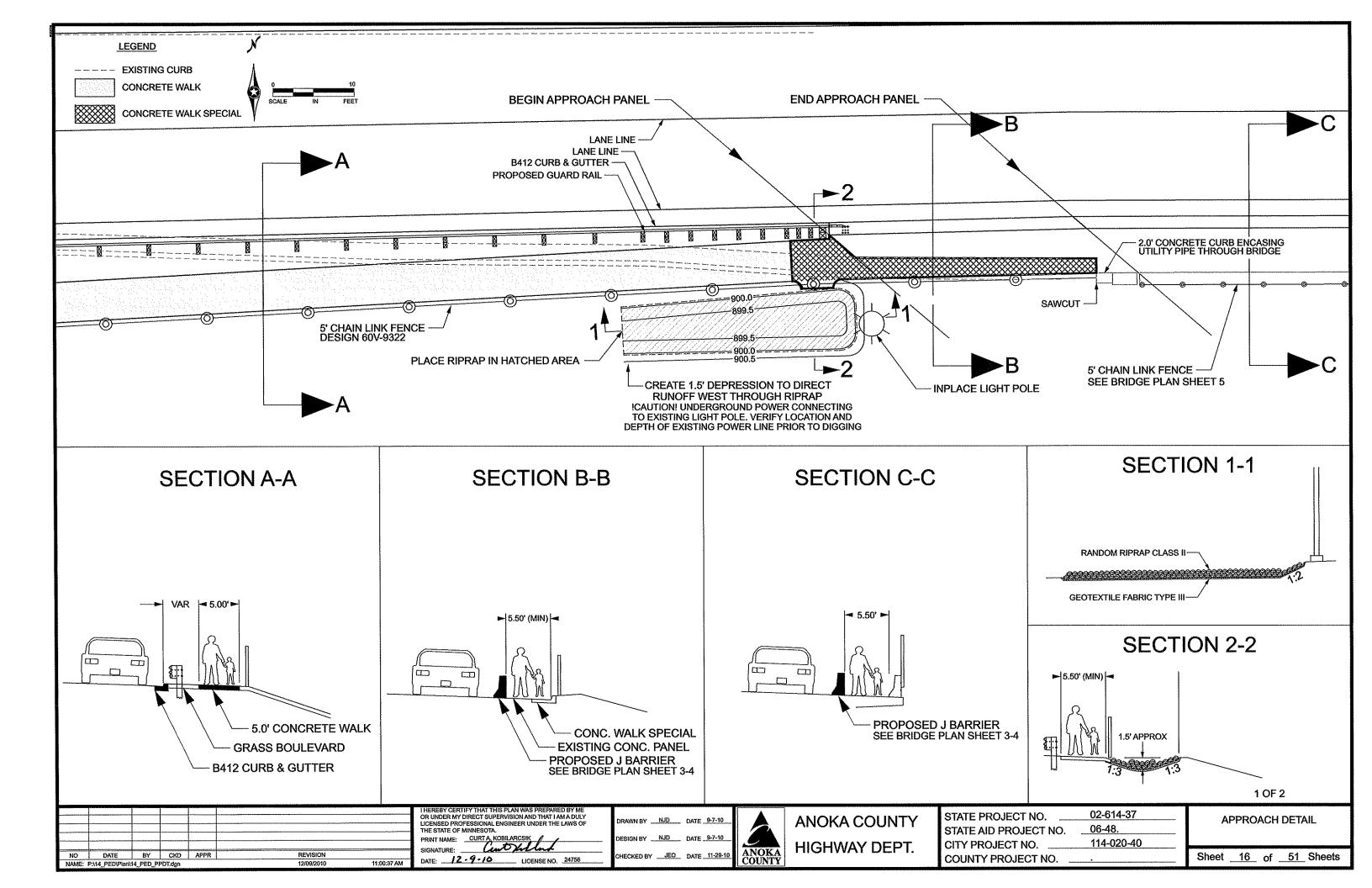
ANOKA COUNTY HIGHWAY DEPT.

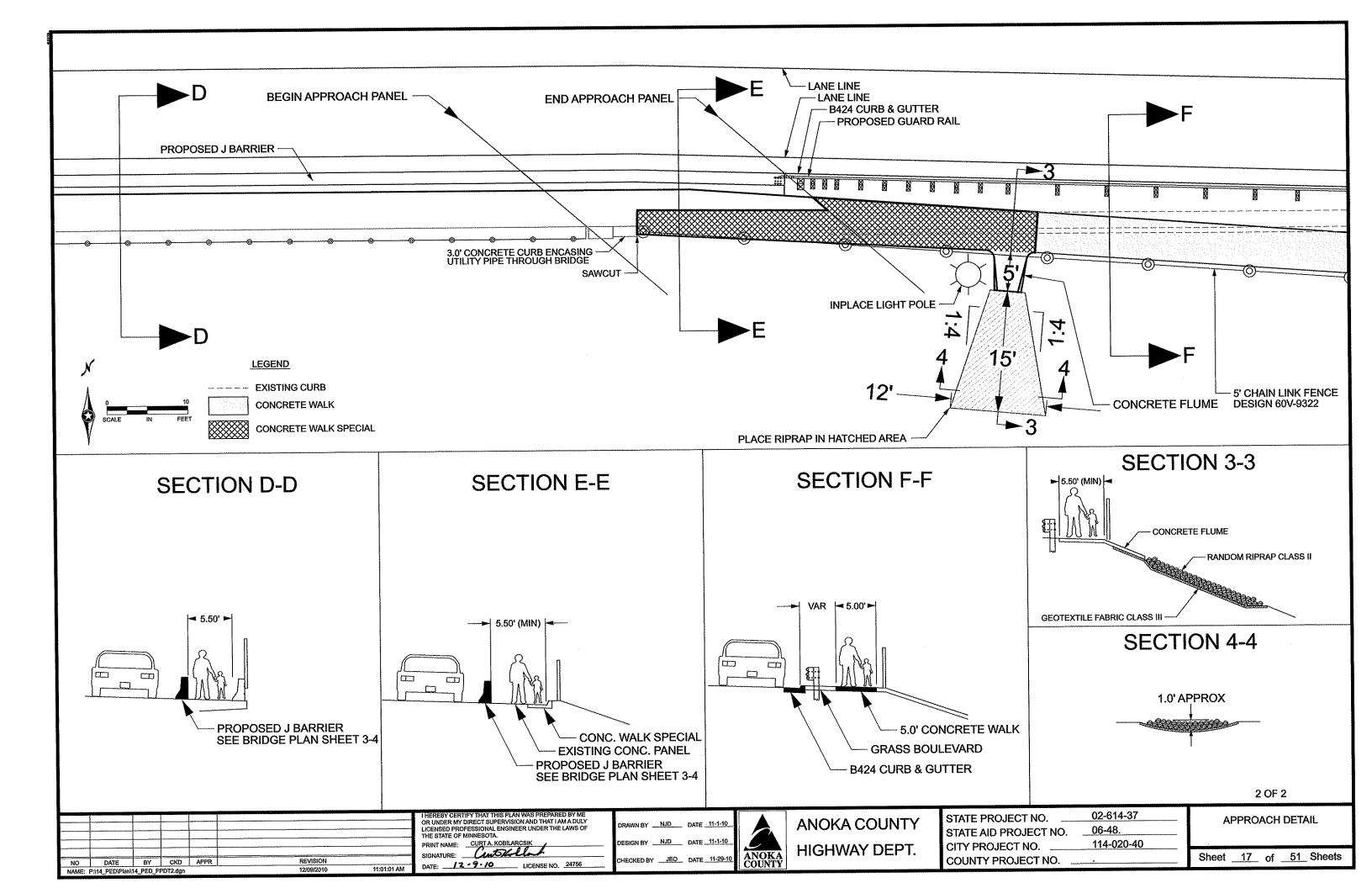
02-614-37 STATE AID PROJECT NO. 06-48 COON RAPIDS CITY NO. 114-020-40 MN STATE PROJECT NO.

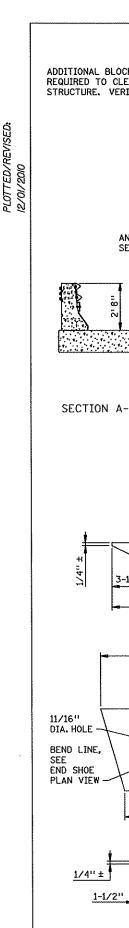
TYPICAL SECTIONS

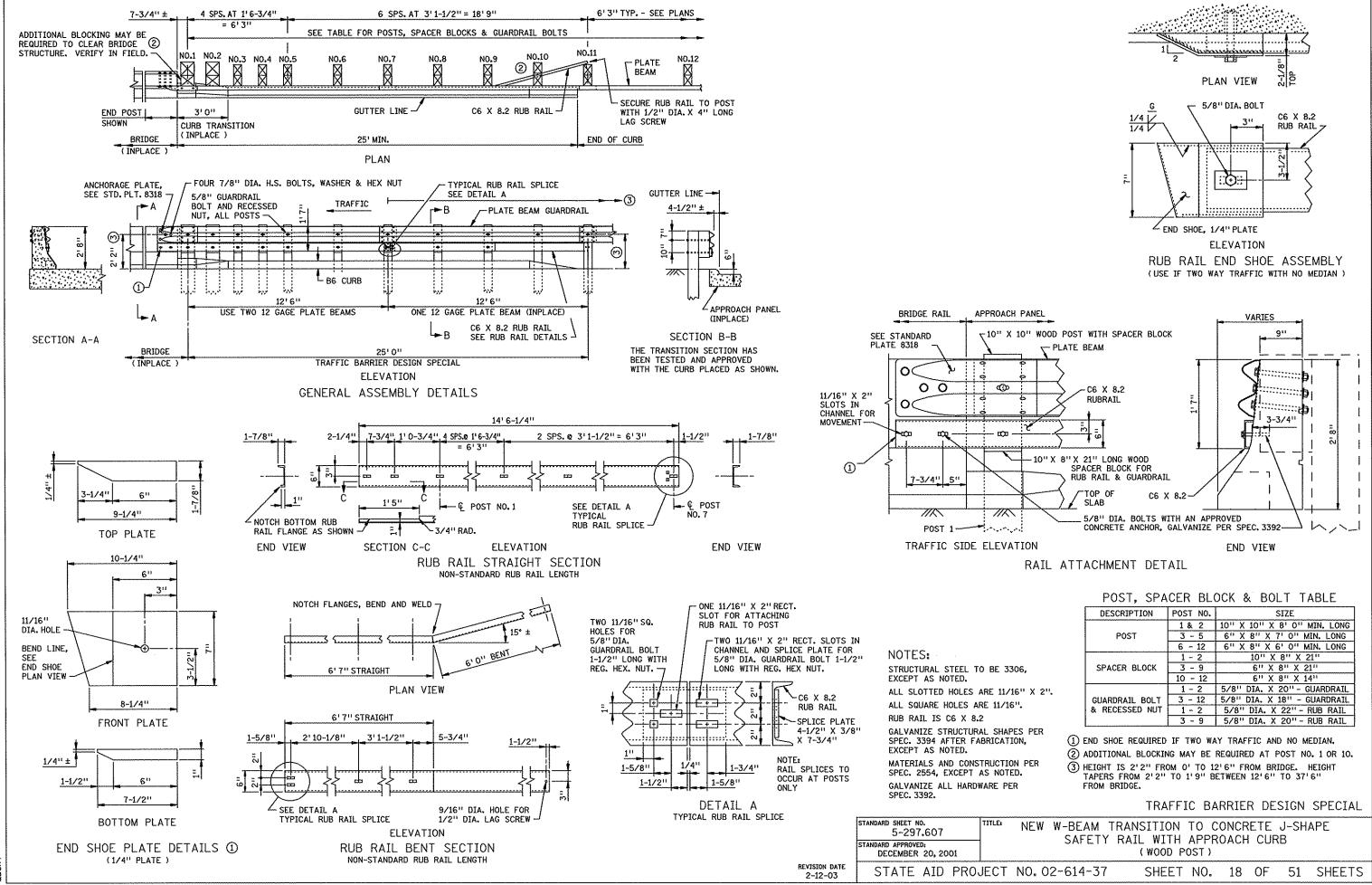
Sheet 14 of 51 Sheets







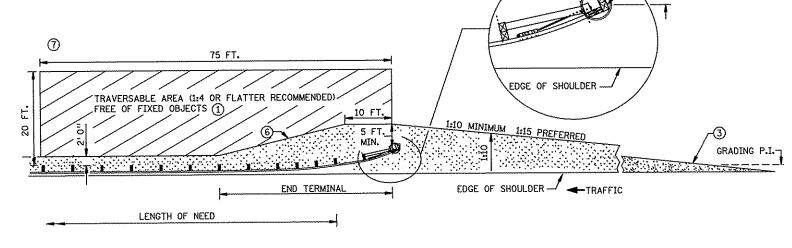




9 7 75 FT. -EDGE OF SHOULDER FRAVERSABLE AREA (1:4 OR FLATTER RECOMMENDED) FREE OF FIXED OBJECTS 1 1:10 MINIMUM 1:15 PREFERRED GRADING P.I. EDGE OF SHOULDER --/ TRAFFIC END TERMINAL LENGTH OF NEED

PLAN VIEW ® (PROPRIETARY FLARED TERMINAL SHOWN AS EXAMPLE)

PLAN VIEW (PROPRIETARY TANGENT TERMINAL SHOWN AS EXAMPLE)



PLAN VIEW 4 8 (ELT)

STATE AID PROJECT NO. 02-614-37

ALL CROSS SLOPES ARE IN FOOT/FOOT UNLESS OTHERWISE NOTED. ALL GUARDRAIL POSTS SHALL BE 6 FT.3 IN.CENTER TO CENTER (DESIGN B), EXCEPT WHERE NOTED.

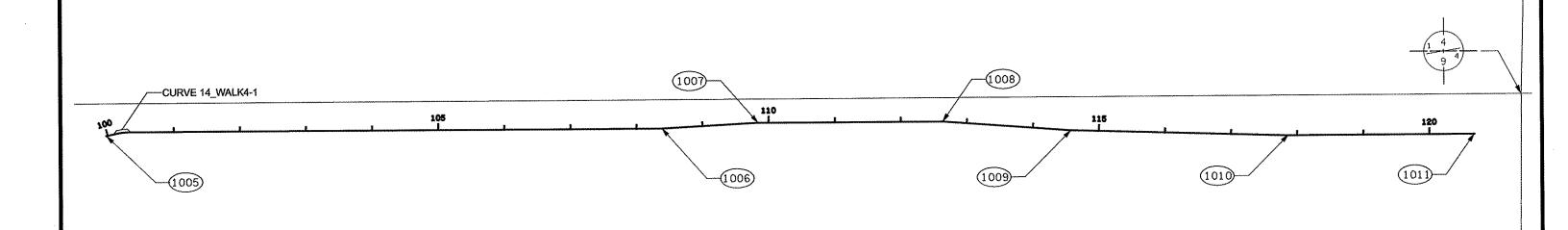
CHANGES (TO SUBJECTS COVERED BY THIS SHEET) INDICATED IN THE PLANS OR ON PLATES WITH MORE RECENT APPROVAL DATES SHALL APPLY. GRADING AND DRAINAGE HARDWARE ARE NOT INCIDENTAL TO GUARDRAIL INSTALLATION.

- (1) SLOPES BETWEEN 1:3 AND 1:4 PERMITTED WHEN 1:4 OR FLATTER IS NOT POSSIBLE. FOR SLOPES STEEPER THAN 1:3 THE AREA IMMEDIATELY BEHIND AND BEYOND THE END TERMINAL SHOULD, AT LEAST, BE SIMILAR IN CROSS SECTION TO THE UNSHIELDED ROADSIDE AREA UPSTREAM OF THE END TERMINAL.
- ② THE LAST 50 FT. OF TANGENT TERMINALS CAN BE FLARED AT 1:50 TAPER.
- (3) WHEN GRADING PLATFORMS ARE BUILT, THEY MUST BE SMOOTHLY TRANSITIONED TO EXISTING SIDE SLOPE SO THE ENTIRE ROADSIDE APPROACH TO THE BARRIER REMAINS TRAVERSABLE, AS WELL AS THE AREA IMMEDIATELY BEHIND IT.

- 4 SEE STANDARD PLATE 8329.
- (5) SNOWPLOW MARKER (X4-5) WITH A 2 LB./FT. DELINEATOR POST 8 FT. LONG (SPEC. 3401) DRIVEN INTO THE GROUND. EXTEND 3 FT. ABOVE TERMINAL. THE MARKER IS INCIDENTAL FOR WHICH NO DIRECT PAYMENT WILL BE MADE, MARK BOTH THE BEGINNING AND END OF PLATE BEAM GUARDRAIL INSTALLATION.
- (6) 1:10 OR FLATTER SLOPE P.I..
- THE GRADUALLY BLEND SLOPE FROM TRAVERSABLE AREA TO STEEP EXISTING SLOPE (WHEN SLOPE IS STEEPER THAN 1:6).
- (8) IF THE TERRAIN BEYOND THE TERMINAL END AND IMMEDIATELY BEHIND THE BARRIER IS NOT SAFELY TRAVERSABLE, A TANGENT (ENERGY- ABSORBING) TERMINAL SHALL BE USED.
- MARK THE APPROACH END OF PLATE BEAM GUARDRAIL INSTALLATIONS WITH A STRIPED OBJECT MARKER SIZED TO FIT THE END TERMINAL, HAVING ALTERNATING BLACK AND REFLECTIVE YELLOW (WIDE ANGLE PRISMATIC RETROREFLECTIVE SHEETING). STRIPES SHALL SLOPE DOWNWARD AT A 45 DEGREE ANGLE TOWARD THE SIDE ON WHICH TRAFFIC PASSES. FOR FLAT END TREATMENTS THE OBJECT MARKER SHALL FIT INSIDE THE RECESSED AREA, FOR ROUNDED END TREATMENTS THE OBJECT MARKER SHALL WRAP AROUND THE CIRCULAR END AND BE MOUNTED SO THE TOP OF THE OBJECT MARKER LINES UP WITH THE TOP OF THE END TREATMENT.

STANDARD SHEET NO.	TITLE:
5-297.601 (3 OF 3)	GUARDRAIL INSTALLATIONS AT MEDIANS & END TREATMENTS
STANDARD APPROVED: AUGUST 17, 2005	(FOR NEW CONSTRUCTION AND RETROFITS WITHOUT SITE RESTRICTIONS)

SHEET NO. 19 OF 51 SHEETS



			ALIGN	MENT T	ABULA	NOITA				
DOINT				CIRCULAR (CURVE DATA			COORDINATES		AZIMUTH
POINT NUMBER	POINT	ALIGNMENT	DELTA	DEGREE	RADIUS	TANGENT	LENGTH	E N		
LE	FT	EDGE OF PROPOS	SE WALK A	LIGNME	NT <14	_WALI	<4>			
		գ C.S.A.H. 14								
1005	РОТ	100+00.000						474,302.4948	159,116.9175	
	PC	100+10.022						474,312.2176	159,119.3487	N 75° 57' 40.26" I
4_WALK4-1	l PI	100+22.268	13° 57' 49.14" RT	57° 17' 44.81"	100.000'	12.246'	24.371'	474,324.0981	159,122.3194	PI
<u> </u>	cc				***			474,336.4756	159,022.3356	
··	PT	100+34.393						474,336.3444	159,122.3355	N 89° 55' 29.40"
1006	POT	108+38.363						475,140.3131	159,123.3902	
1007	POT	109+84.409						475,286.1367	159,131.4567	
1008	POT	112+63.448						475,565.1753	159,131.6898	
1009	POT	114+57.664						475,758.8673	159,117.4368	
1010	POT	117+84,452						476,085.5188	159,107.9704	
1011	POT	120+59.164	<u> </u>			1		476,360,2288	159,108.8949	



1 OF 1

				1		
		ļ	ļ	ļ		
		1.				
		 				
				<u> </u>		
NO	DATE	BY	CKD	APPR	REVISION	
NAME: p:\14_ped\plan\14_PED_AL3.dgn					12/01/2010	2:14:58 PM
PROTESTA.	P. LIT_POSTPORTE	,D_/B.	e vog ii		(2012010	

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.
PRINT NAME: CURTA. KOBILARCSIK
SIGNATURE: CUSTA. KOBILARCSIK
DATE: 12.9.10 LICENSE NO. 24756

DRAWN BY NJD DATE 8-20-10 DESIGN BY NJD DATE 5-26-10

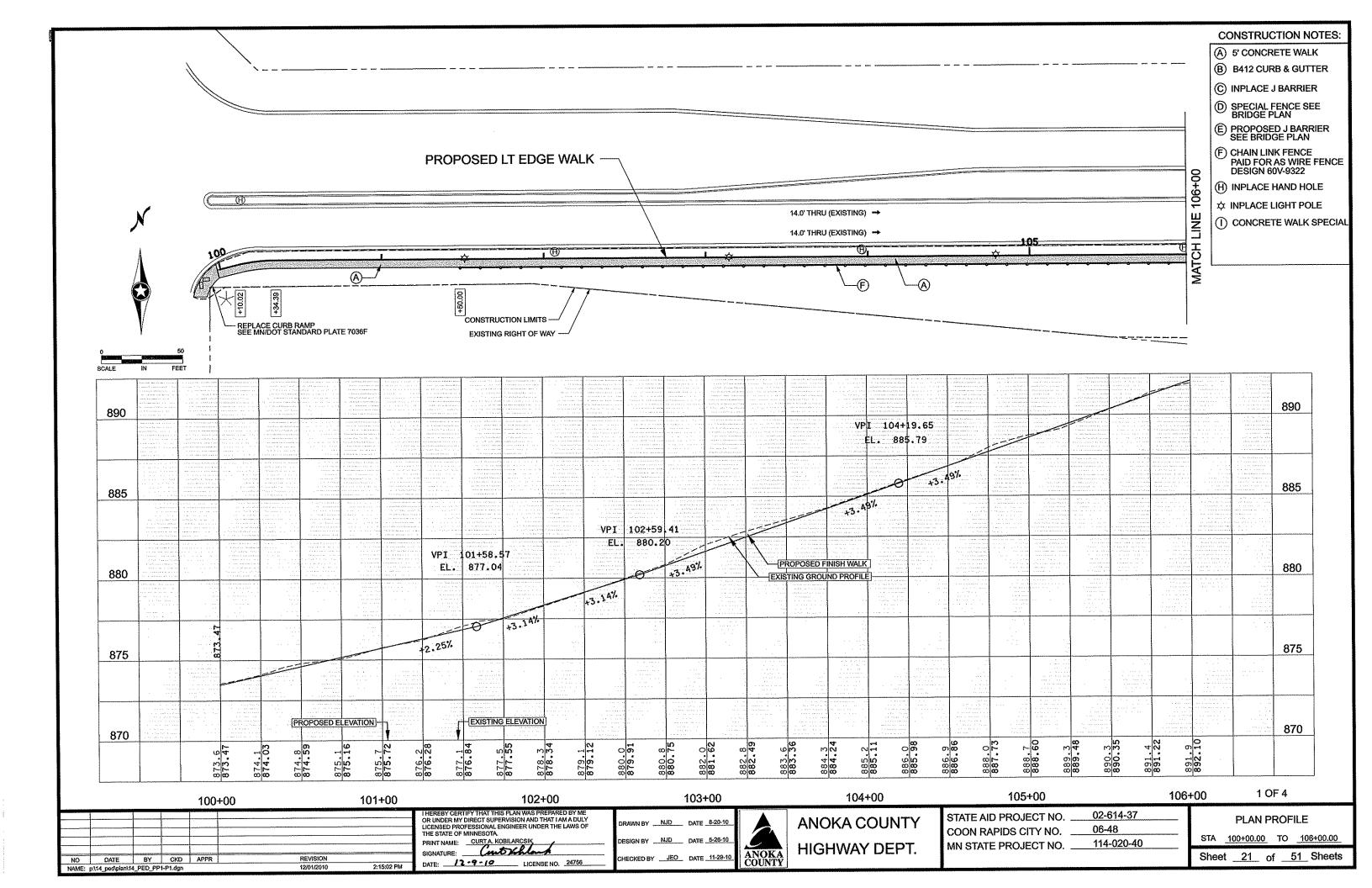


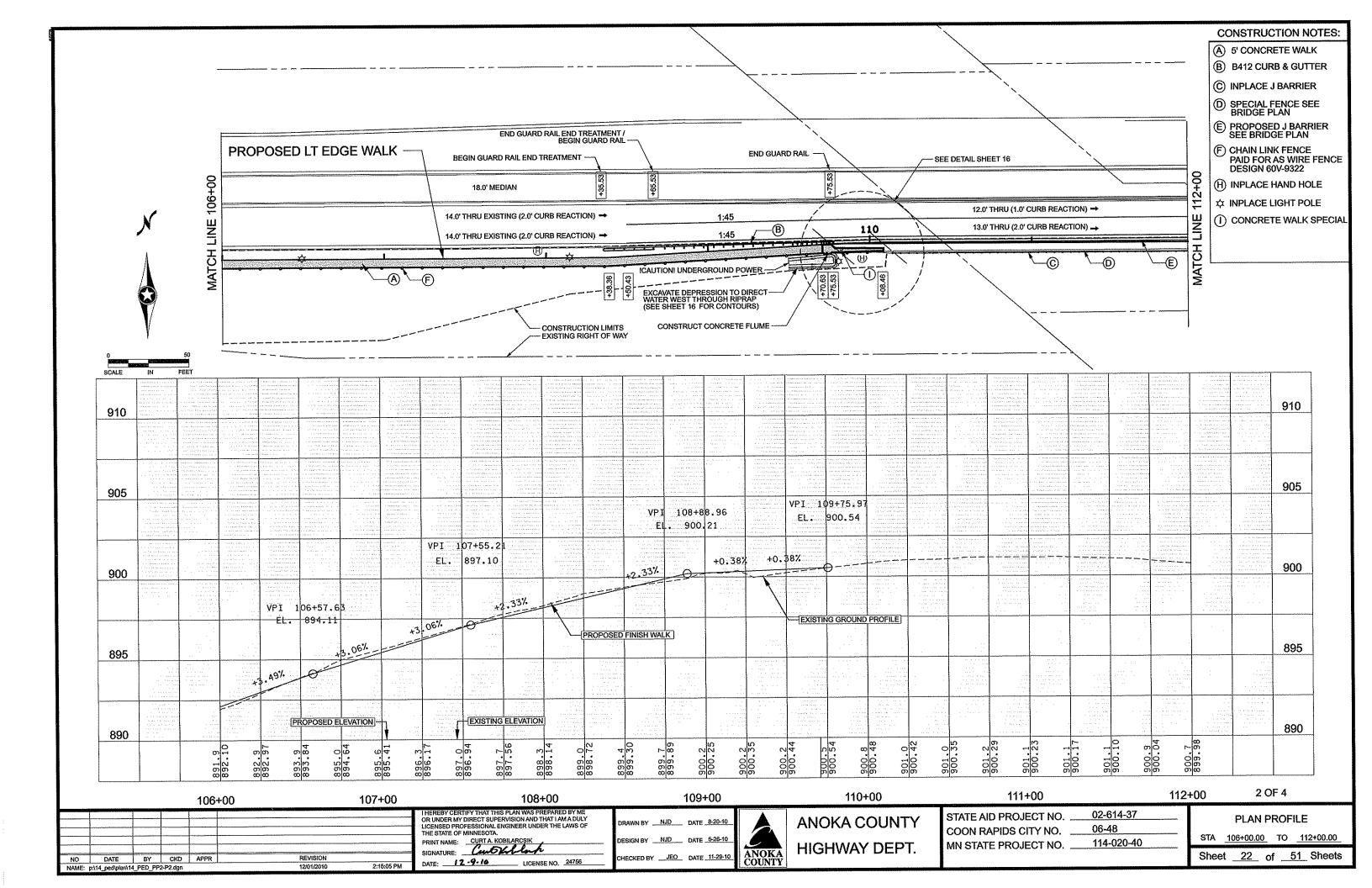
ANOKA COUNTY HIGHWAY DEPT.

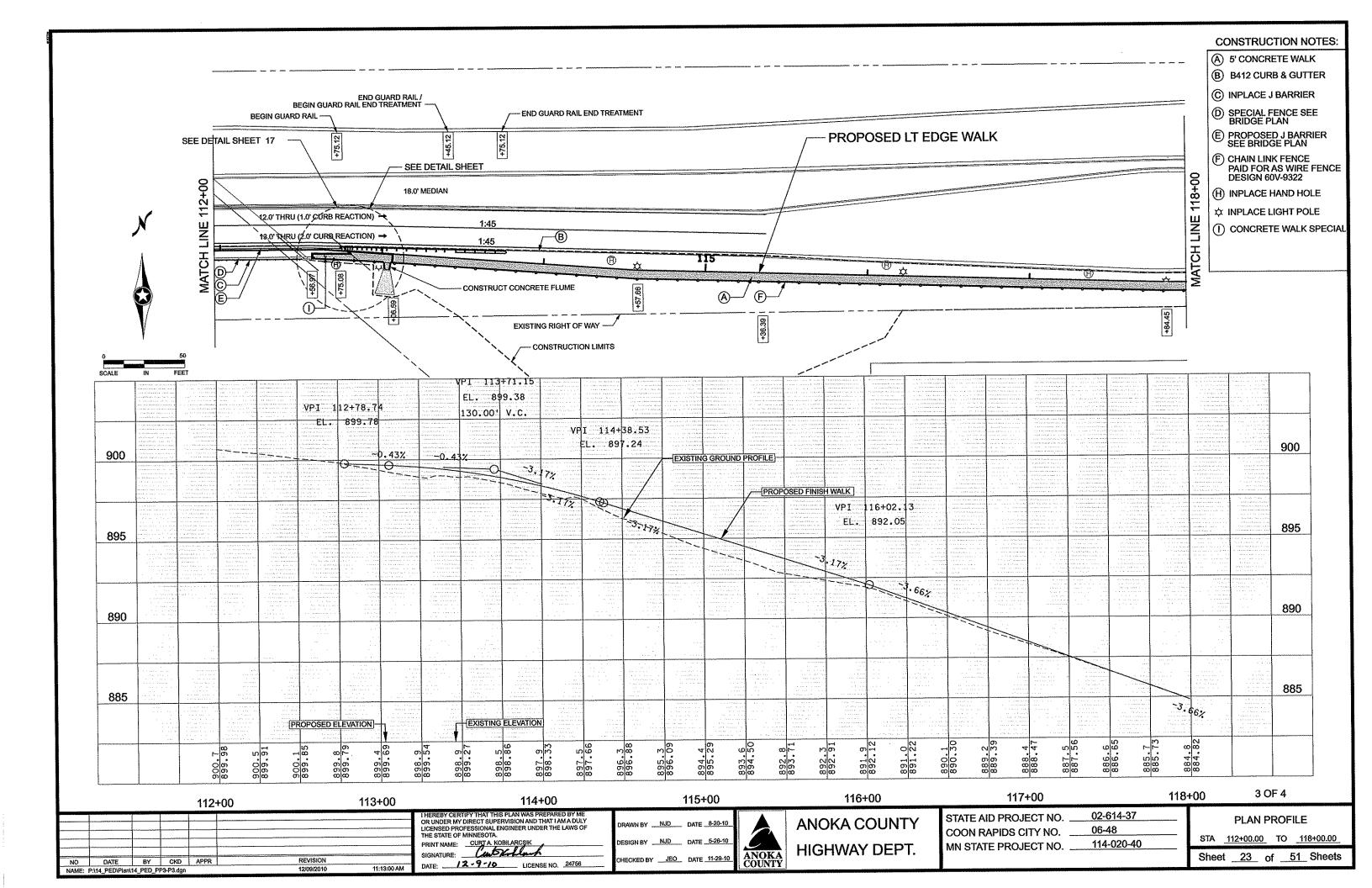
STATE AID PROJECT NO.	02-614-37
COON RAPIDS CITY NO.	06-48
MN STATE PROJECT NO.	114-020-40

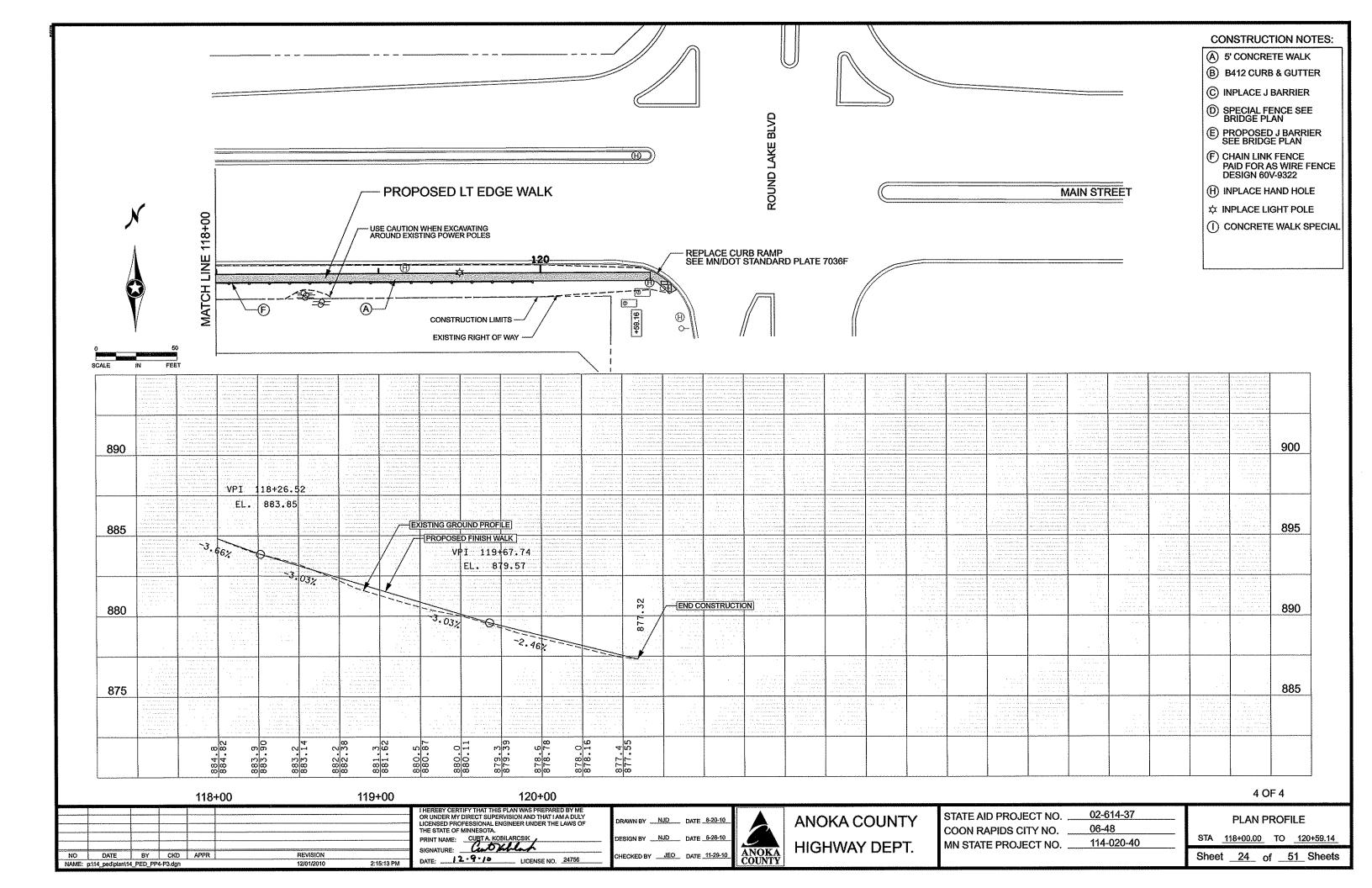
ALIGNMENT TAB

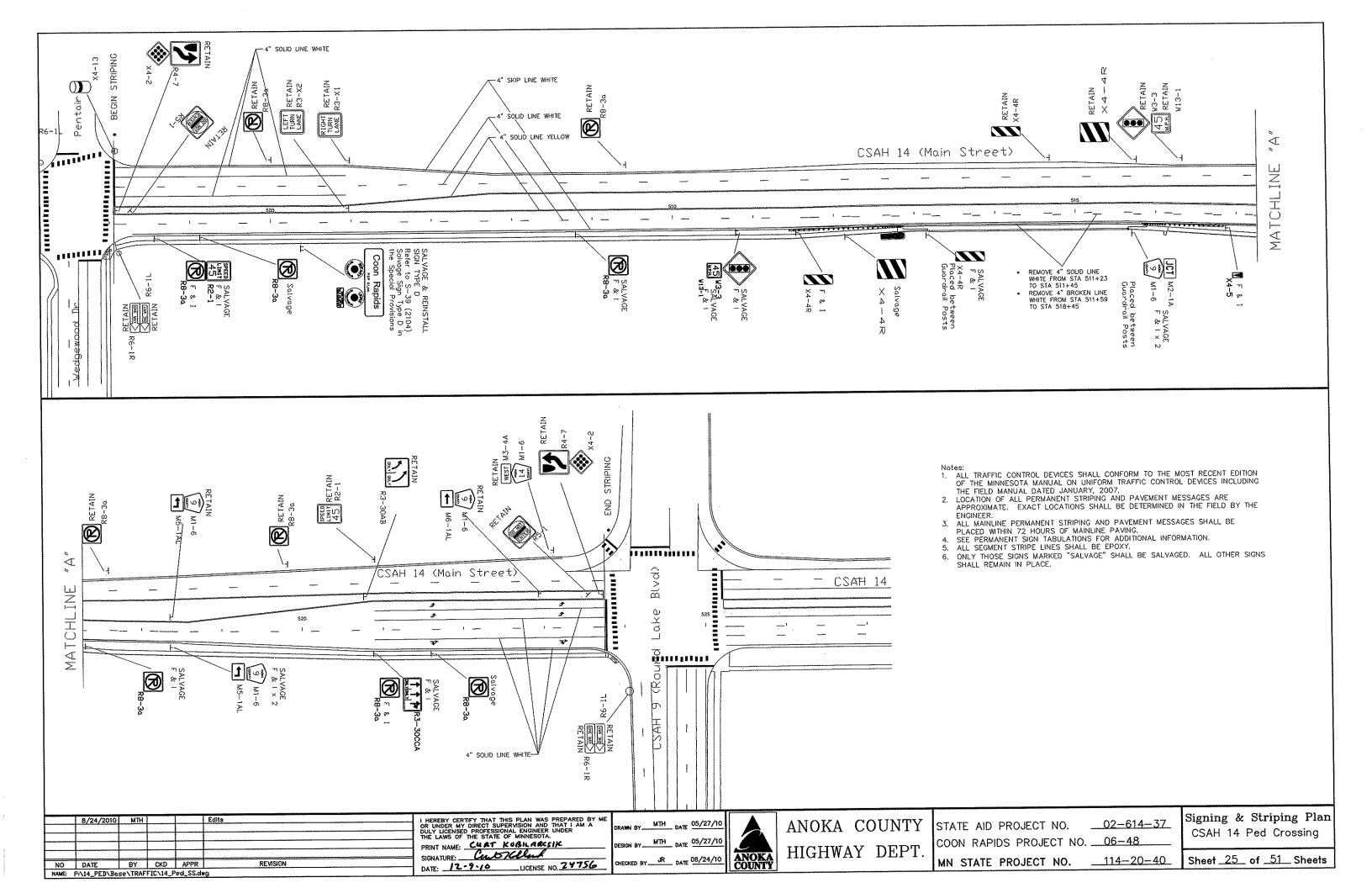
Sheet 20 of 51 Sheets











SALVAG	E SIGN	PANE	ELS TYPE C	С
SIGN DESIGNATION	SIGN SIZE	Sign Salvage	Notes	
R2-1	24" x 30"	1		
R8-3a	24" x 24"	1		
R8-3a	24" x 24"	1		
W3-3	48" x 48"	11		
W13-1	24" x 24"	1	Α	
X4-4R	18" x 18"	1		
X4-4R	18" x 36"	1		
M2-1A	21" x15"	1	8	2141 - 2247 - 227 - 123
M1-6A	24" x 24"	1		language de la constant de la consta
R8-3a	24" x 24"	1		
M1-6A	24" x 24"	1		
M5-1AL	15" x 21"	1	С	
R3-30CCA	54" x 30"	1		
R8-3a	24" x 24"	1		
	-			
Project Totals		14		
	!			
Associated in the second state of the second s	May 100 10 11 11 11 11 11 11 11 11 11 11 11		A TO SELECT THE PROPERTY OF THE PARTY OF THE PROPERTY OF THE P	
NOTES: Thi	s table include	s Salvage	Type "C" signs only	
A) Sign mo	unted below V	/3-3 sign po	ost assembly	
B) Sign mo	unted above M	I1-6A sign _I	oost assembly	
C) Sign mo	unted below M	l1-6A sign _l	oost assembly	.L

			SIGN PANI	 EL 1	YPE (
10 X 17 X		FT. ²		O.L.		7	FT. (1)
R2-1	24" × 30"	5. 00	SPEED LIMIT 45	1	5. 00	1	7.0'
R3-30CCA	54" × 30"	11. 25	T T T	1	11. 25	2	7.0'
<u>R8-3a</u>	24" × 24"	4. 00	- ®	4	16. 00	1	7.0'
W33	36" × 36"	9, 00		1	9. 00	2	7.0'
<u>W13-1</u>	24" × 24"	4. 00	— 45 up.n	1	4. 00		5.0'
<u>M1-6a</u>	24" × 24"	4. 00	ANDIA 9 CERLATE	2	8, 00	1	7.0'
M2-1A	21' × 15'	2. 19	(JCT)	1	2. 19		7.0*
M5-1AL	21' × 15'	2. 19	—	1	2. 19	The state of the s	7.0*
<u>X4-4R</u> <u>X4-4R</u>		2. 25 4. 50		1	2. 25 4. 50	1	7.0° 7.0°
<u>X4-5</u>	6" × 12"	0. 50	M	1	o. 50	1	7.0'
					64, 88		

	STRIPING	TAB		J	
	REMOVE PAVEMENT	SOLII	D LINE	BROKEN LINE	
	PAVEMENT MARKING PERMANENT LIN FT 778	4"	4 ⁿ	4"	
		WHITE (LF)	YELLOW	WHITE (4)	
	LINFT		(LF)	(LF)	
Eastbound CSAH 14	778	2881	2073	420	
Westbound CSAH 14		2596	2070	420	
PROJECT TOTAL	778	5477	4143	840	

NOTES:

ALL STRIPING SHALL BE EPOXY UNLESS OTHERWISE NOTED SEE TEMPORARY PAVEMENT MARKINGS FOR ALL MARKINGS RELATED TO STAGING BROKEN LINES SHALL BE 10' SOLID WITH A 40' GAP

GENERAL NOTES:

- 1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), AND PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
- 2. POST LENGTHS ARE APPROXIMATE AND INCLUDE EMBEDMENT, BUT DO NOT INCLUDE ADDITIONAL LENGTH REQUIRED FOR SPLICE.
- 3. SEE SHEETS 28-29 FOR STRUCTURAL DETAILS.
- SEE STANDARD SIGNS MANUAL FOR PUNCHING CODE AND DETAILED DRAWINGS OF TYPE C SIGN PANELS.

SPECIFIC NOTES:

MOUNTING HEIGHT IS MINIMUM W13-1 MOUNTED BELOW W3-3 SIGN ASSEMBLY M2-1A MOUNTED ABOVE M1-6A SIGN ASSEMBLY M5-1AL MOUNTED BELOW M1-6A SIGN ASSEMBLY SEE SHEET 27-29 FOR TYPICAL MOUNTING

	8/24/2010	МТН			Edita	I HER
		<u> </u>				DULY
				 		PRINT
						SIGN
NO	DATE	BY	CKD	APPR	REVISION	DATE
NAME:	Pr\14_PED\Bo		FIC\14_F	Ped_SS.dv	9	DATE

ERREBY CERTIFY THAT THIS PLAN WAS PREPARED BY MI
R UNDER MY DIRECT SUPERVISION AND THAT I AM A
JULY LICENSED PROFESSIONAL ENGINEER UNDER
HE LAWS OF THE STATE OF MINNESOTA.
RINT NAME: CURT KOBILARCSIK
GNATURE: CONDUMENT _LICENSE NO. 24756

DATE 05/27/10

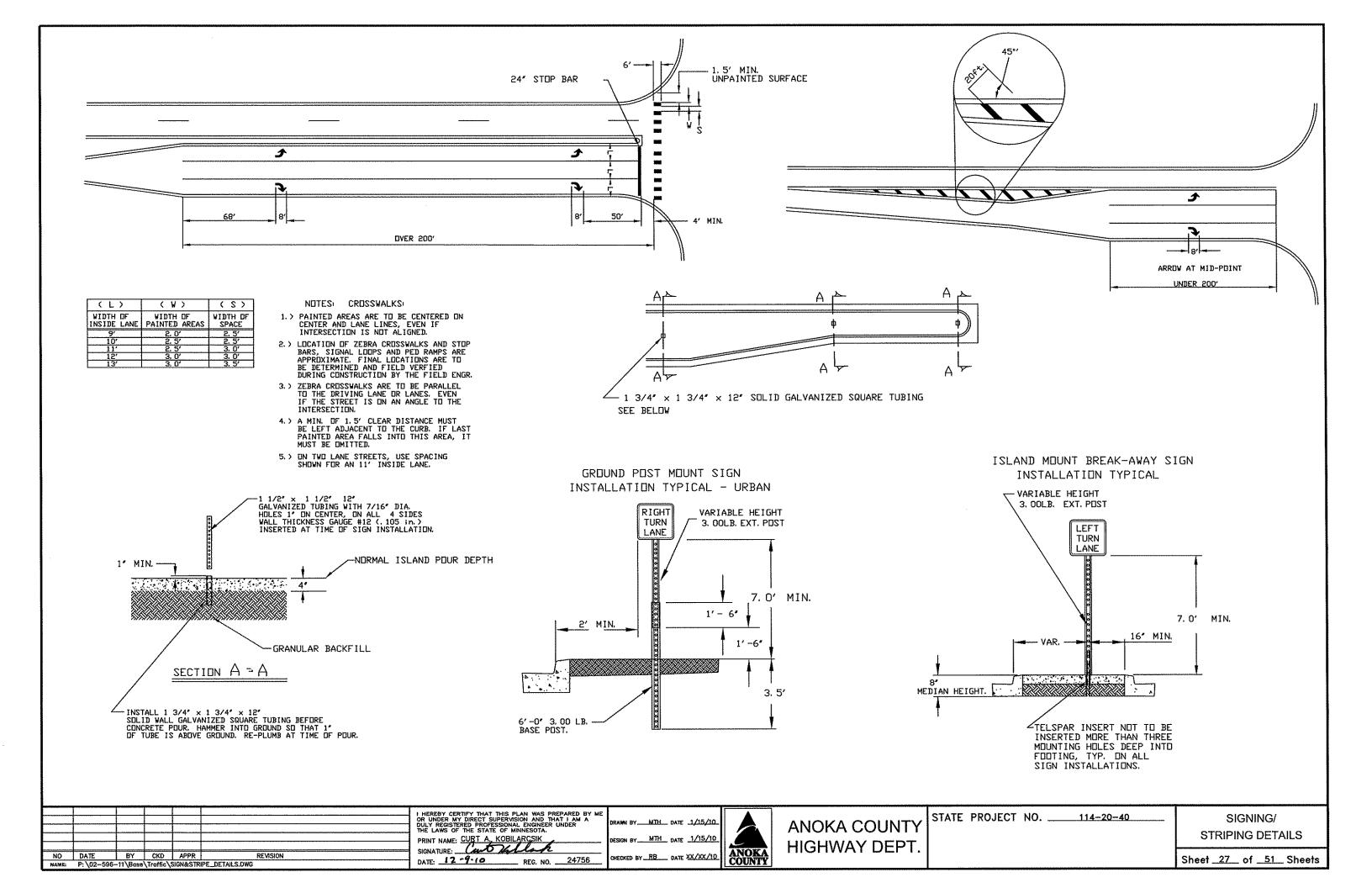


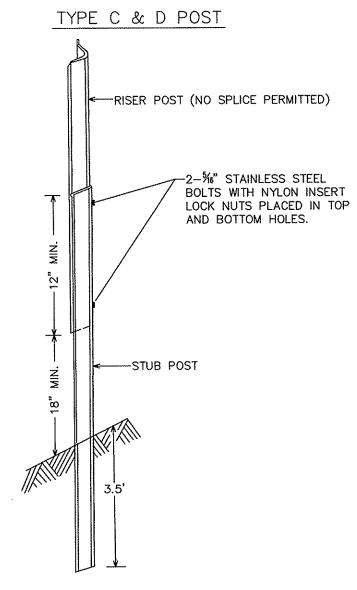
ANOKA COUNTY HIGHWAY DEPT

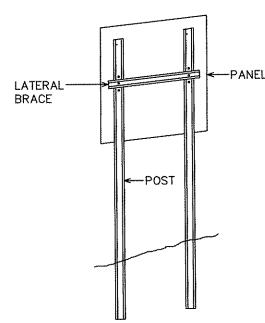
__02-614-37 STATE AID PROJECT NO. COON RAPIDS PROJECT NO. 06-48 114-20-40 MN STATE PROJECT NO.

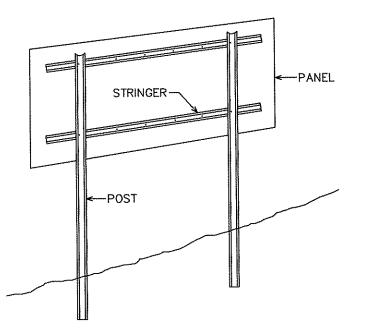
Signing & Striping Quantities

Sheet <u>26</u> of <u>51</u> Sheets





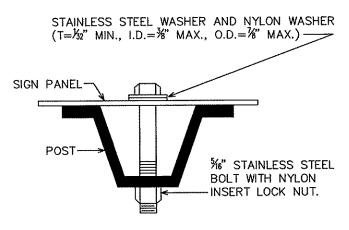




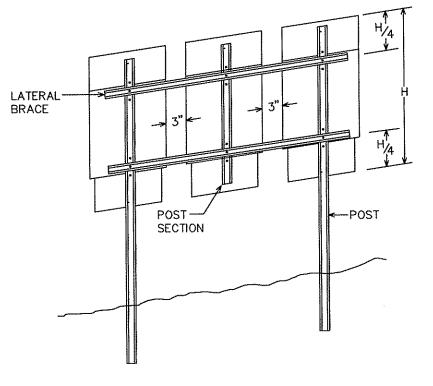
TYPICAL TYPE C INSTALLATION

TYPICAL TYPE D INSTALLATION





U POST MOUNTING
TYPE C SIGNS



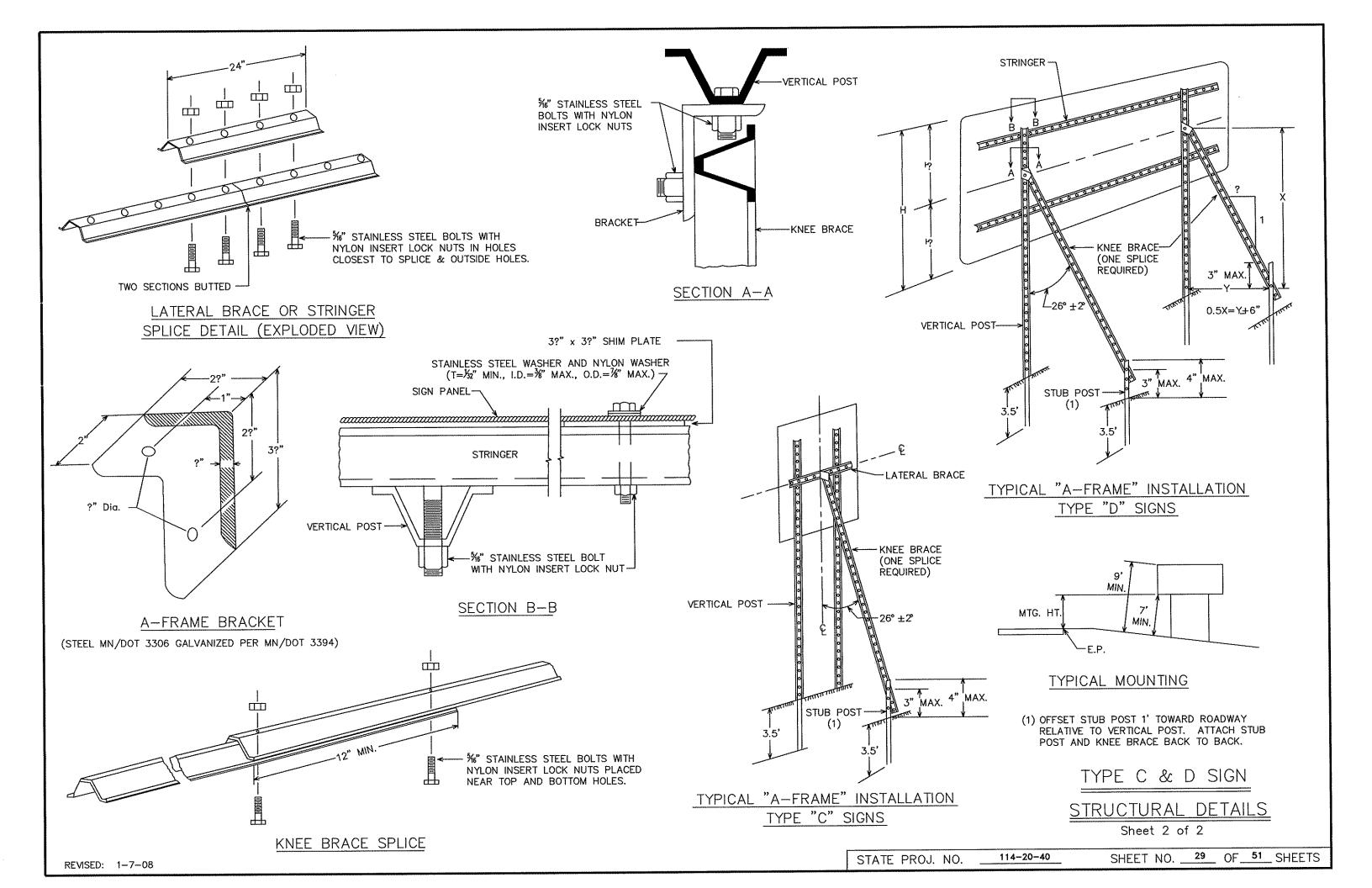
MODIFIED TYPE C INSTALLATION

NOTES:

- 1. USE 3 LB/FT STUB POSTS, RISER POSTS, STRINGERS, KNEE BRACES, LATERAL BRACES AND KNEE BRACE STUB POSTS. ALL SHALL CONFORM TO MN 3401.
- 2. FOR TYPE D SIGN POSTS LENGTHS AND SPACINGS, SEE SIGN DATA SHEET
- 3. TYPE D SIGN PANELS SHALL BE BOLTED TO STRINGERS AT 24" MAXIMUM INTERVALS IN ACCORDANCE WITH THE TYPE D STRINGER AND PANEL—JOINT ((SEE STANDARD SIGNS MANUAL).
- 4. MOUNTING (PUNCH CODE) FOR THE TYPE C SIGN PANELS SHALL BE AS INDICATED IN THE STANDARD SIGNS MANUAL UNLESS OTHERWISE SPECIFIED.
- 5. ALL RISER (VERTICAL) U POSTS SHALL BE SPLICED. DRIVEN STUB POSTS SHALL BE AT LEAST 7' LONG.
- 6. USE GRADE 5 ZINC PLATED 5/16" BOLTS, WASHERS AND NYLON INSERT LOCK NUTS AS SHOWN FOR ALL GROUND MOUNTED AND OVERHEAD MOUNTED SIGNS.
- 7. ZINC PLATED WASHER WITH SAME DIMENSIONS SHALL BE PROVIDED BETWEEN ALL NYLON WASHERS AND BOLT HEADS.
- 8. BRACING STUBS SHALL BE NO MORE THAN 4" ABOVE GROUND AND EMBEDDED AT LEASE 3'.
- A-FRAME BRACKET SHALL BE STEEL CONFORMING TO MN/DOT 3306 AND GALVANIZED IN ACCORDANCE WITH MN/DOT 3394.
- 10. COLLARS SHALL BE USED TO SHIM OVERLAYS AND DEMOUNTABLE LEGEND AWAY FROM PANEL WHERE INTERFERENCE WITH BOLT HEADS IS ENCOUNTERED. MN/DOT 3352.2AF.
- 11. 2 POST TYPE C SIGNS SHALL BE REINFORCED WITH AT LEAST ONE LATERAL BRACE. INSTALLATIONS WHERE THE TOTAL PANEL HEIGHT IS 60" OR MORE SHALL HAVE TWO LATERAL BRACES LOCATED APPROXIMATELY AT THE QUARTER POINTS.
- 12. WHERE 2 SINGLE POST TYPE C SIGNS ARE INSTALLED SIDE BY SIDE, THEY SHALL BE REINFORCED LATERALLY BY AS LEAST 2 BRACES, BOLTED AT EACH POST AND LOCATED APPROXIMATELY AT THE QUARTER POINTS.
- 13. WHERE 3 OR MORE TYPE C SIGNS ARE INSTALLED SIDE BY SIDE, THEY SHALL BE REINFORCED LATERALLY BY AT LEASE 2 BRACES, BOLTED AT EACH POST AND POST SECTION AND LOCATED APPROXIMATELY AT THE QUARTER POINTS AS SHOWN IN MODIFIED TYPE C INSTALLATION.

TYPE C & D SIGN
STRUCTURAL DETAILS

Sheet 1 of 2



PROJECT LOCATION AND GENERAL INFORMATION

THIS ROAD CONSTRUCTION PROJECT ADDS A CONCRETE WALKWAY ALONG THE SOUTH SIDE OF CSAH 14 (MAIN STREET) BETWEEN WEDGEWOOD DRIVE AND ROUND LAKE BOULEVARD (CSAH 9).

THIS PROJECT WILL PRIMARILY CONSIST OF GRADING FOR THE ADDITION OF A CONCRERE SIDEWALK ALONG THE SOUTH SIDE OF CSAH 12. ADDITIONAL WORK WILL INCLUDE THE ADDITION OF CONCRETE J BARRIER ACROSS THE BRIDGE AND CONCRETE CURB AND GUTTER WORK ADJACENT TO CSAH 14. LANE RE-STRIPING. GLIARD RAIL ADDITION. AND FENCING WILL ALSO OCCUR WITH THIS PROJECT.

THIS PROJECT WILL REQUIRE THE DISTURBANCE OF 1.53 ACRES OF SOILS AND DOES CREATE THE POTENTIAL FOR SEDIMENT DISCHARGE FROM THE SITE.

TRAINING REQUIREMENTS

THE CONTRACTOR WILL ENSURE THAT THE TRAINING REQUIRED IN PART 111.A.2 OF THE GENERAL STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY IS COMPLIED WITH

THE INDIVIDUALS TRAINED AND THE TRAINING RECEIVED WILL BE RECORDED IN THE SWPPP BEFORE THE START OF CONSTRUCTION OR AS SOON AS PERSONELL FOR THE PROJECT HAVE BEEN DETERMINED.

LONG TERM OPERATION AND MAINTENANCE

THE CITY OF COON RAPIDS STREETS DIVISION WILL BE RESPONSIBLE FOR THE LONG TERM OPERATION AND MAINTENANCE OF THE PERMANENT STORMWATER MANAGEMENT AND SNOW REMOVAL OPERATIONS ALONG THE PROPOSED WALK.

JIM LEWIS CITY OF COON RAPIDS STREETS SUPERVISOR 11155 ROBINSON DRIVE COON RAPIDS, MN 55433 OFFICE - (763) 767-6579

RECEIVING SURFACE WATERS, DISCHARGE TO IMPAIRED WATERS & SPECIAL WATERS

THE FOLLOWING TABLE BELOW IDENTIFIES ALL SURFACE WATERS WITHIN 1 MILE OF THE DISTURBED SOIL PROJECT BOUNDARIES, WHICH WILL RECEIVE STORMWATER RUNOFF FROM THE CONSTRUCTION SITE, DURING OR AFTER CONSTRUCTION.

STORMWATER FROM A DISCHARGE POINT ON THE PROJECT THAT FLOWS TO A SURFACE WATER IDENTIFIED AS IMPAIRED AND/OR SPECIAL MUST INCLUDE THE FOLLOWING ADDITIONAL BMP REQUIREMENTS:

- 1) ALL EXPOSED SOIL AREAS MUST BE STABILIZED AS SOON AS POSSIBLE TO
 LIMIT SOIL EROSION BUT IN NO CASE LATER THEN <u>SEVEN (7)</u> DAYS AFTER
 THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY
 OR PERMANENTLY CEASED.
- 2) TEMPORARY SEDIMENT BASINS MUST BE USED FOR COMMON DRAINAGE LOCATIONS
 THAT SERVE AN AREA WITH FIVE (5) OR MORE ACRES DISTURBED AT ONE TIME.
 THIS PROJECT AS DESIGNED DOES NOT HAVE FIVE (5) DISTURBED ACRES
 DRAINING TO A COMMON LOCATION AND TEMPORARY SEDIMENT BASINS WILL NOT BE REQUIRED.

RECEIVING SUF	FACE WATER	S	
NAME OF WATER BODY	SPECIAL	IMPAIRED	
NAME OF WATER BODT	WATER	WATER	
ANOKA	COUNTY		
CROOKED LAKE	NO	YES	
RUM RIVER	YES	YES	

DISTURBED SOIL AREA

TOTAL DISTURBED SOILS AREA FOR THIS PROJECT IS 1.53 ACRES

IMPERVIOUS SOIL AREA

EXISTING AREA OF IMPERVIOUS SURFACE IS <u>0.05</u> ACRES. POST CONSTRUCTION AREA OF IMPERVIOUS SURFACE <u>0.22</u> ACRES.

SOIL TYPES

THE PREDOMINANT SOIL TYPE FOUND ON THIS PROJECT IS SAND.

CONSTRUCTION PHASING

SILT FENCE AND/OR OTHER SUITABLE PERIMETER BMP'S AS PROVIDED IN THE PLANS WILL BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITY. CONSTRUCTION WILL BE REQUIRED TO BE PHASED SO THAT ALL DOWN GRADIENT SEDIMENT CONTROL MEASURES ARE INSTALLED PRIOR TO OR IN CONJUNCTION WITH ANY SOIL DISTURBING ACTIVITIES.

WHEN TOPSOIL IS DISTURBED, THE TOPSOIL WILL BE STRIPPED AND STOCKPILED IN SOIL BERMS AT THE TOE OF THE STRIPPED SLOPES ALONG THE PROJECT LIMITS. TEMPORARY VEGATATION WILL BE ESTABLISHED ON THE STOCKPILED TOPSOIL BERMS WITH SEED MIXTURE 150, TYPE 1 FERTILIZER, AND DISK ANCHORED TYPE 1 MULCH AS PROVIDED IN THE PLAN. STOCKPILED TOPSOIL BERMS WILL NOT BE PLACED IN ANY STORMWATER CONVEYANCES.

AFTER STRIPING THE TOPSOIL THE EXPOSED SOIL INSLOPES WILL BE STABILIZED WITH DISK ANCHORED TYPE 1 MULCH WITHIN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS BEEN TEMPORARILY OR PERMANENTLY CEASED.

TEMPORARY SEDIMENT BASINS

THIS ROAD CONSTRUCTION PROJECT AS DESIGNED DOES NOT MEET ANY OF THE TEMPORARY SEDIMENT BASIN DISTURBED AREA THRESH HOLD REQUIREMENTS AND TEMPORARY SEDIMENT BASINS WILL NOT BE REQUIRED.

PERMANENT STORMWATER MANAGEMENT SYSTEM

ALL STORMWATER MUST BE DISCHARGED IN A MANNER THAT DOES NOT CAUSE NUISANCE CONDITIONS, EROSION IN RECEIVING WATERS OR ON DOWNSLOPE PROPERTIES, OR INUNDATION IN WETLANDS CAUSING A SIGNIFICANT ADVERSE IMPACT TO THE WETLAND.

THIS ROAD CONSTRUCTION PROJECT HAS A LESS THEN 1 ACRE INCREASE IN IMPERVIOUS AREA.

EROSION PREVENTION PRACTICES

ALL EXPOSED SOIL AREAS MUST BE STABILIZED AS SOON AS POSSIBLE TO LIMIT SOIL EROSION BUT IN NO CASE LATER THEN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. FOR ALL AREAS WHERE DISTURBED SOILS DRAIN TO AN IMPAIRED OR SPECIAL WATER THE EXPOSED SOIL BUST BE STABILIZED NO LATER THEN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA CEASED. SEE THE IMPAIRED & SPECIAL WATERS SECTION OF THIS SWPPP FOR ADDITIONAL BMP REQUIREMENTS FOR DISTURBED AREAS THAT DRAIN TO A SPECIAL OR IMPAIRED WATER

THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH OR SWALE THAT DRAIN WATER FROM ANY PORTION OF THE CONSTRUCTION SITE, OR DIVERTS WATER AROUDN THE SITE, MUST BE STABILIZED WITHIN 200 LINEAL FEET FROM THE POINT OF DISCHARGE INTO ANY SURFACE WATER. STABILIZATION OF THE LAST 200 FEET MUST BE COMPLETED WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER.

PIPE CULVERT OUTLETS MUST BE PROVIDED WITH TEMPORARY OR PERMANENT ENERGY DISSIPATION WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER. THIS WILL INCLUDE DRAINAGE DITCHES THAT DRAIN WATER FROM ANY PORTION OF THE CONSTRUCTION SITE

PR	OJECT CON	NTACTS	
MPCA	NPDES	LAURAL MEZNER	218-316-3889
MPCA	EMERGENCY	STATE DUTY OFFICER	800-422-0798
DNR	NOT REQUIRED		
COE	NOT REQUIRED		
ANOKA COUNTY DESIGN SWPPP PREPARATION	U OF MN DESIGN OF SWPPP EXPIRES 5/13	NICK DOBDA	763-862-4261
ANOKA COUNTY PROJECT REPRESENTATIVE	U OF MN SITE MANAGEMENT EXPIRES 5/12	CHRIS OSTERHUS	763-862-4252
EROSION CONTROL SUPERVISOR (CONTRACTOR)			

SEDIMENT CONTROL PRACTICES

TEMPORARY STOCKPILED TOPSOIL BERMS MUST INCLUDE PERIMETER BMP'S AS PROVIDED IN THE PLAN AT LOCATIONS WHERE CONSTRUCTION STORMWATER DRAINS FROM THE PROJECT

IN ORDER TO MAINTAIN SHEET FLOW AND MINIMIZE RILLS AND/OR GULLIES, THERE SHALL BE NO UNBROKEN SLOPE LENGTH OF GRATER THEN 75 FEET FOR SLOPES WITH A GRADE OF 1:3 OR STEEPER

ALL STORM DRAIN INLETS MUST BE PROTECTED BY APPROPRIATE BMP'S DURING CONSTRUCTION UNTIL ALL SOURCES WITH POTENTIAL DISCHARGE TO THE INLET HAVE BEEN STABILIZED

VEHICLE TRACKING OF SEDIMENT FROM THE CONSTRUCTION SITE MUST BE MINIMIZED. STREET SWEEPING MUST BE USED IF SEDIMENT IS BEING TRACKED OFF THE CONSTRUCTION SITE

POLLUTION PROVENTION MEASURES

THE CONTRACTOR WILL IMPLEMENT THE POLLUTION PREVENTION MANAGEMENT MEASURES AS DIRECTED IN THE NPDES PERMIT PART IV.F AS PERTAINING TO SOLID WASTE, HAZARDOUS MATERIALS EXTERNAL TRUCK WASHING, AND CONCRETE WASHOUT ONSITE.

THESE MANAGEMENT MEASURES FOR POLLUTION PREVENTION WILL BE STRICTLY ENFORCED.

LOCATION OF SWPPP REQUIREMENTS						
REQUIREMENT	PLAN	•	MN/DOT SPECIFICATION	SPECIAL PROVISION		
	TITLE	LOCATION				
NPDES PERMIT COMPLIANCE			1701, 1702, &1717	1717 (AIR, LAND & WATER) 1717 (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT)		
CERTIFIED PERSONNEL IN EROSION AND SEDIMENT CONTROL SITE MANAGEMENT			1506, 1717, & 2573	1717 (AIR, LAND & WATER) 1717 (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT)		
CHAIN OF RESPONSIBILITY	AGENCY CONTACTS	SHEET 30	1506, 1717, & 2573			
PROJECT SCHEDULE / WEEKLY EROSION & SEDIMENT CONTROL SCHEDULE / COMPLETING INSPECTION / MAINTENANCE LOG	AGENCY CONTACTS	SHEET 30	1717 & 2573	1717 (AIR, LAND & WATER) 1717 (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT)		
SWPPP PREPARATION	AGENCY CONTACTS	SHEET 30				
SITE MAP / RECEIVING WATERS / DIRECTION OF FLOW			1717			
PROJECT SPECIFIC CONSTRUCTION STAGING			1717	1717 (AIR, LAND & WATER) 1717 (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT) 1806 (DETERMINATION AND EXTENSION OF CONTRACT TIME)		
TEMPORARY EROSION AND SEDIMENT CONTROL BMP LOCATIONS, INSTALLATION, TIMING OF INSTALLATION AND TYPE OF BMP	QUANTITY TABULATIONS	SHEET 5	2573 & 2525	2575 (RAPID STABILIZATION SPECIFICATION)		
ADDITIONAL TEMPORARY AND OR PERMANENT EROSION AND SEDIMENT CONTROL BMP'S NOT PROVIDED OR SHOWN IN THE PLAN			1717, 2573, & 2575	1717 (AIR, LAND & WATER) 1717 (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT) 2575 (RAPID STABILIZATION SPECIFICATION)		
MAINTENANCE OF EROSION AND SEDIMENT CONTROL DEVICES, REMOVAL OF TRACKED SEDIMENT, REMOVAL OF DEVICES			1717 & 2573	1514 (MAINTENANCE DURING CONSTRUCTION) 1717 (LAND AIR & WATER) 1717 (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT)		
DEWATERING			2105.3B, & 2451.3C	DEWATERING MAY ALSO REQUIRE DNR PERMIT. NO DEWATERING IS ANTICIPATED FOR THIS PROJECT		
FINAL STABILIZATION	QUANTITY TABULATIONS EROSION CONTROL PLAN	SHEET 5 SHEET 32 - 33	1717, 2573, & 2575	1717 (AIR, LAND & WATER) 1717 (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT)		
TEMPORARY EROSION AND SEDIMENT CONTROL DETAILS	QUANTITY TABULATIONS EROSION CONTROL PLAN	SHEET 5 SHEET 32 - 33	2575	2575 (RAPID STABILIZATION SPECIFICATION)		
PERMANENT EROSION CONTROL DETAILS	EROSION CONTROL DETAILS	SHEET 34 - 36	2575	2575 (CONTROLLING EROSION AND ESTABLISHING VEGETATION)		

						·
	····			·		······································
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
NO	DATE	BY	CKD	APPR	REVISION	
	p:\14_ped\plan\1-	PED_SW	PPP.dgn	4	12/01/2010	2:15:16 PM

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. DRINT MAME. CURTA. KOBILARCSIK

THE STATE OF MINNESOTA.
PRINT NAME: CURTA KOBILARCSIK
SIGNATURE: LISTULLA
DATE: 12.9-10 LICENSE NO. 24758

 DRAWN BY
 NJD
 DATE
 11-30-10

 DESIGN BY
 NJD
 DATE
 11-30-10

 DHECKED BY
 JEO
 DATE
 11-30-10



ANOKA COUNTY HIGHWAY DEPT.
 STATE AID PROJECT NO.
 02-614-37

 COON RAPIDS CITY NO.
 06-48.

 MN STATE PROJECT NO.
 114-020-40

SWPPP PLAN

Sheet <u>30</u> of <u>51</u> Sheets

			STORM WATER PO	LLUTION PRE	VENTION P	LAN (SV	VPPP)		
Training									
Individual revising or	amending the SWPPP	and individuals perfor	ming inspections must fill in the following	g table.					
	-site personel trained								
	Dates of training								
	Name of instructor(s								
	tity providing training g course or workshop								
- Content or training	, , , , , , , , , , , , , , , , , , , ,								
Amending the SWPI The SWPPP must b	ne amended to record o	hanges or modification	ns to permanent BMP's or other storm was ments. This record is to be retained for	rater treatment systems ar	d removals of tempora	ry BMP's. Char	nges to temporary BMP's r	nay be recorded on th	is sheet. Include a brief
description of the pro	Plan Location	Project Location	Problem, solution, and notes	and your and project					
Date Reported	(sheet)	(station)							

									<u></u>
	· · · · · · · · · · · · · · · · · · ·		I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME				OTATE AID DOO! FOT NO	02-614-37	, on a same some some some some some
			OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF	DRAWN BY NJD DATE 11-30-10	ANOKA (COUNTY	STATE AID PROJECT NO	06-48	SWPPP PLAN

LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: CURTA. KOBILARCSIK

SIGNATURE: LICENSE NO. 24756 2:15:19 PM

NO DATE BY CKD APPR
NAME: p:\14_ped\plan\14_PED_SWPPP.dgn

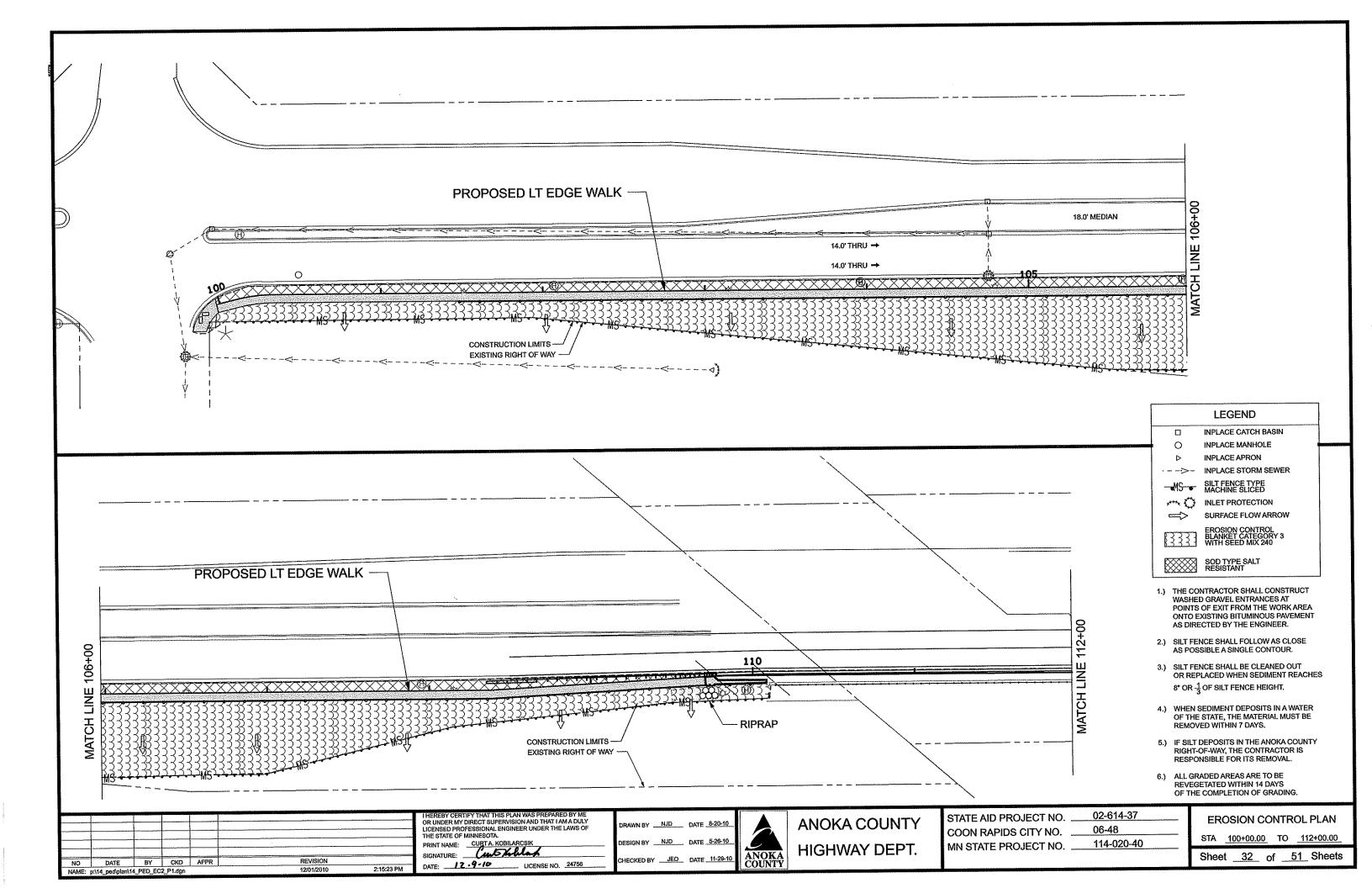
REVISION 12/01/2010

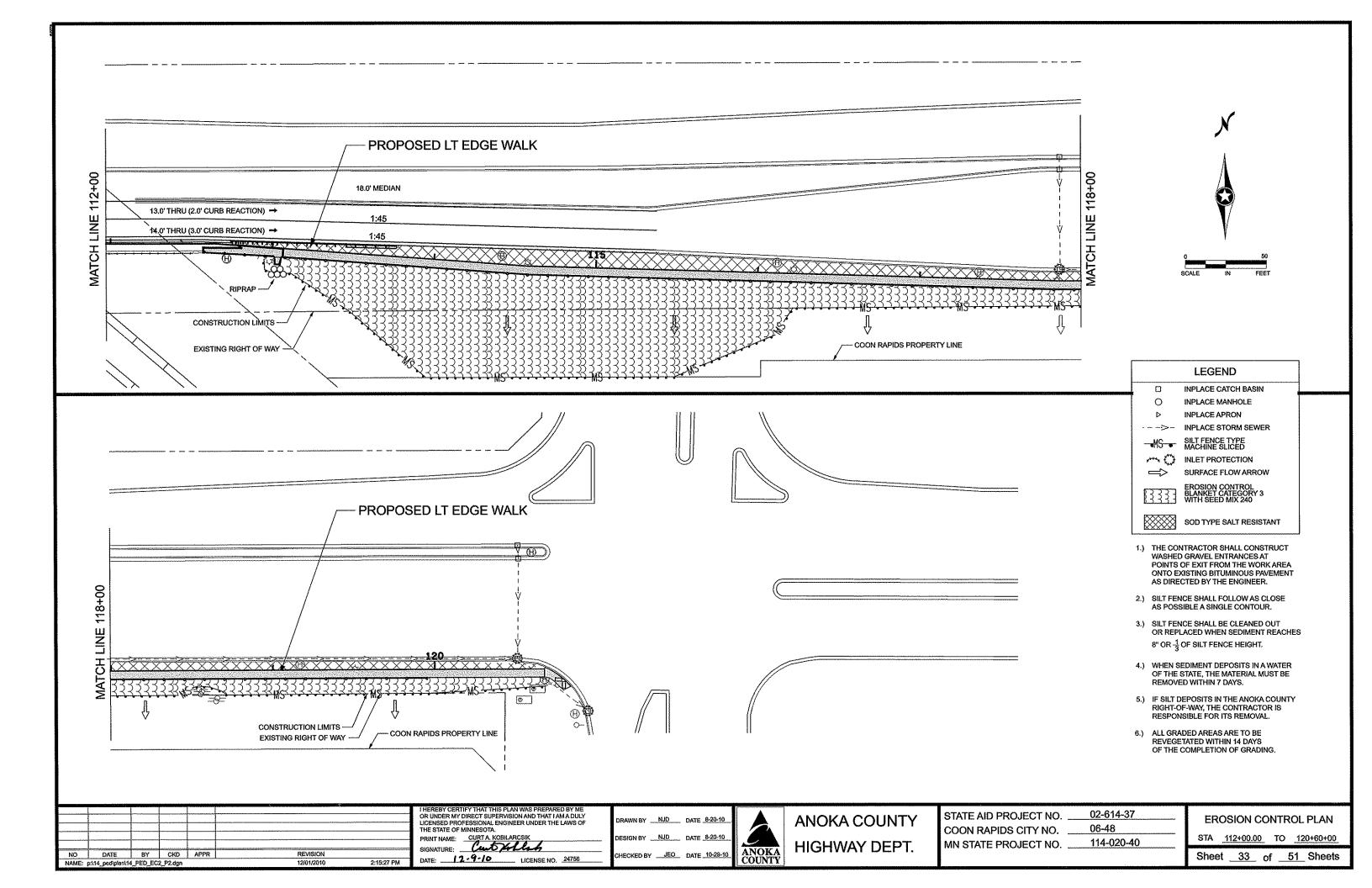
CHECKED BY JEO DATE 11-30-10

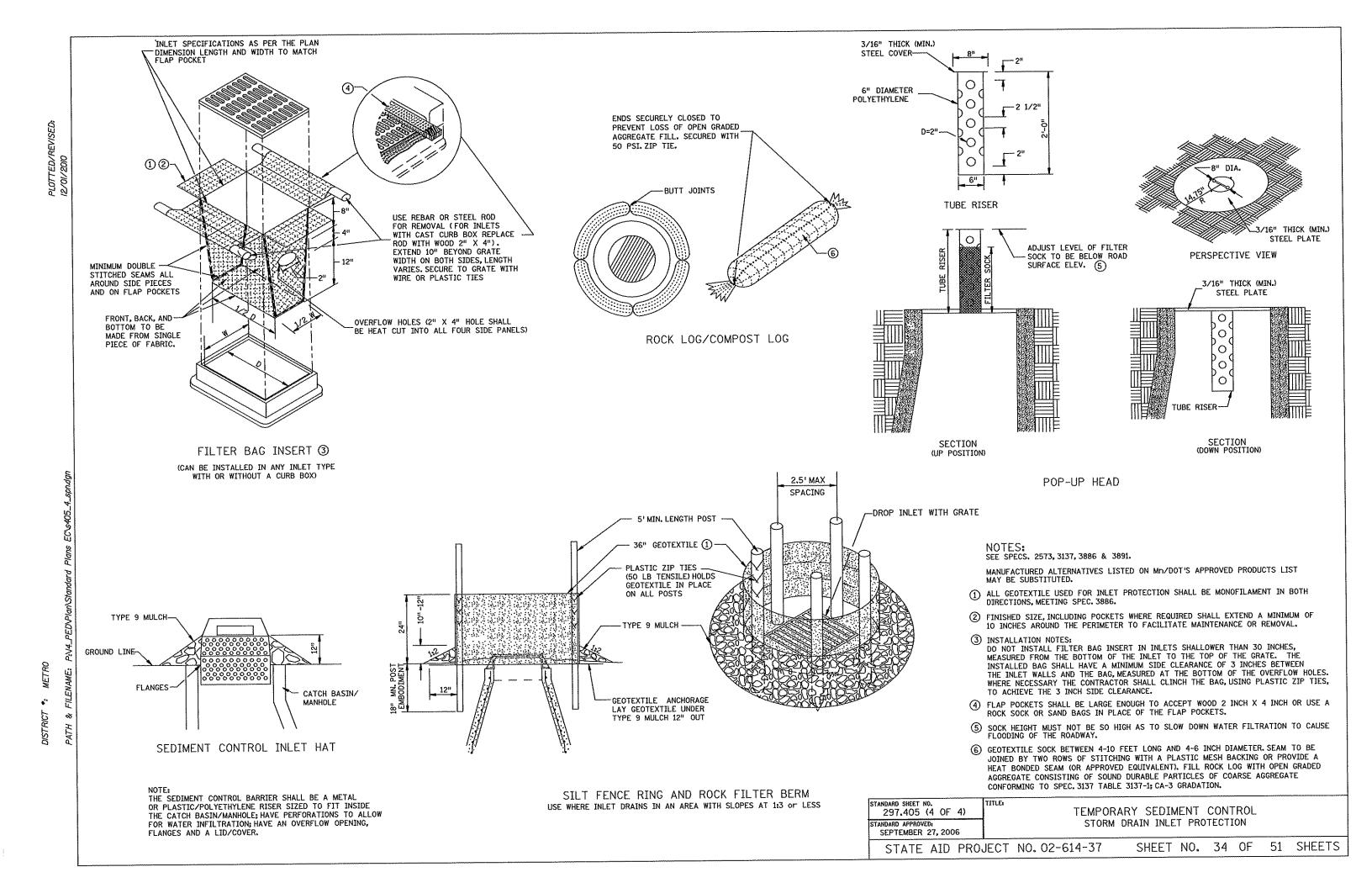
HIGHWAY DEPT.

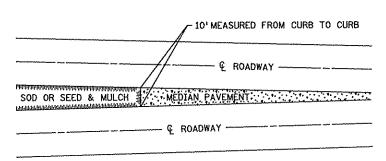
MN STATE PROJECT NO. 06-48. 114-020-40

Sheet <u>31</u> of <u>51</u> Sheets

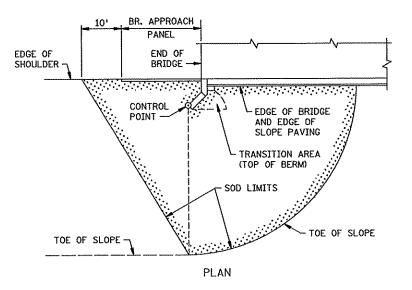


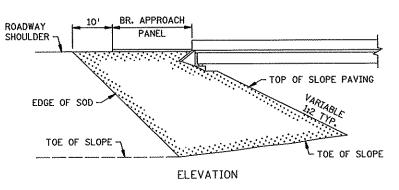




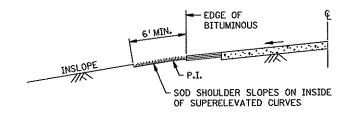


SODDING LIMITS AT GORE AREA

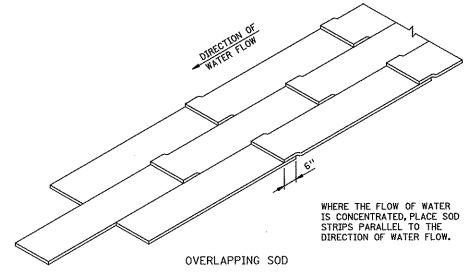


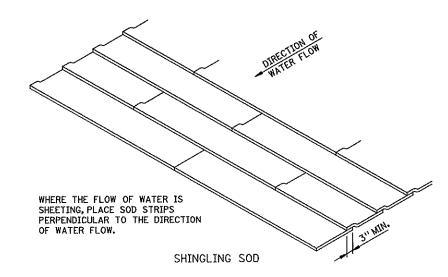


SODDING LIMITS AT BRIDGE APPROACH FILLS

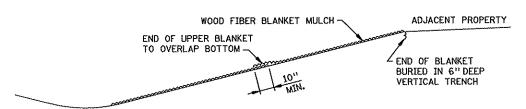


SODDING INSLOPES OF SUPERELEVATED CURVES

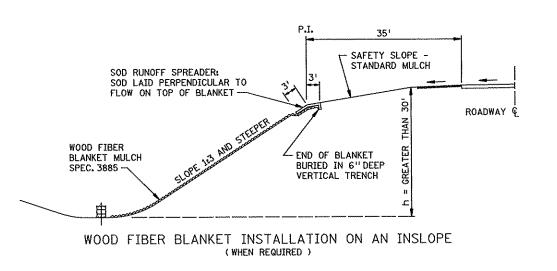


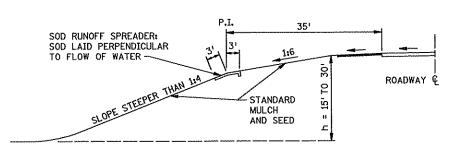


SPECIAL SOD PLACEMENT TECHNIQUES

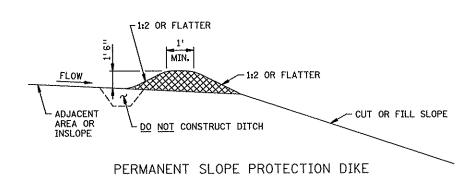


WOOD FIBER BLANKET INSTALLATION ON A CUT SLOPE





BROKEN-BACK SAFETY FILL SLOPE

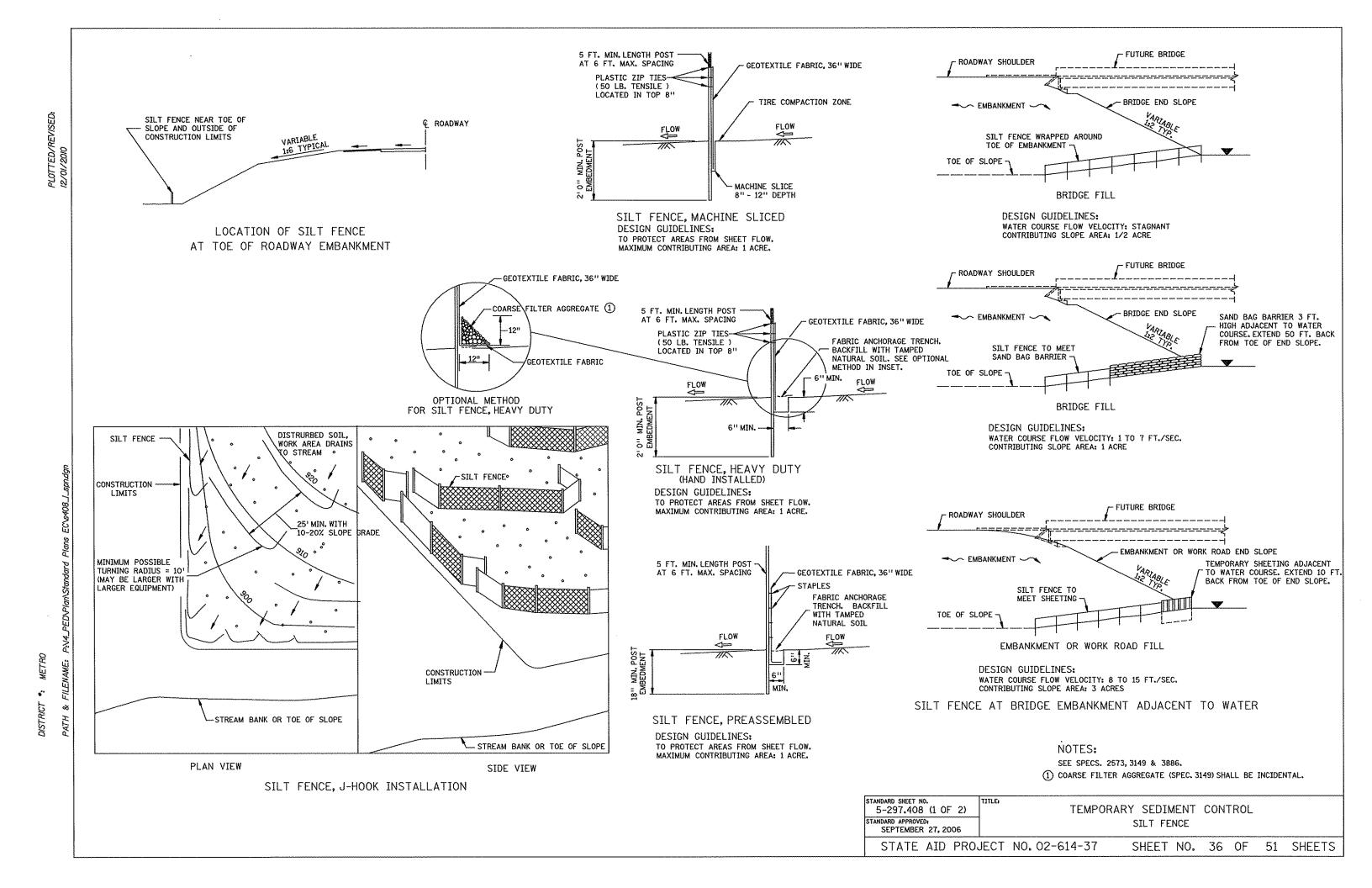


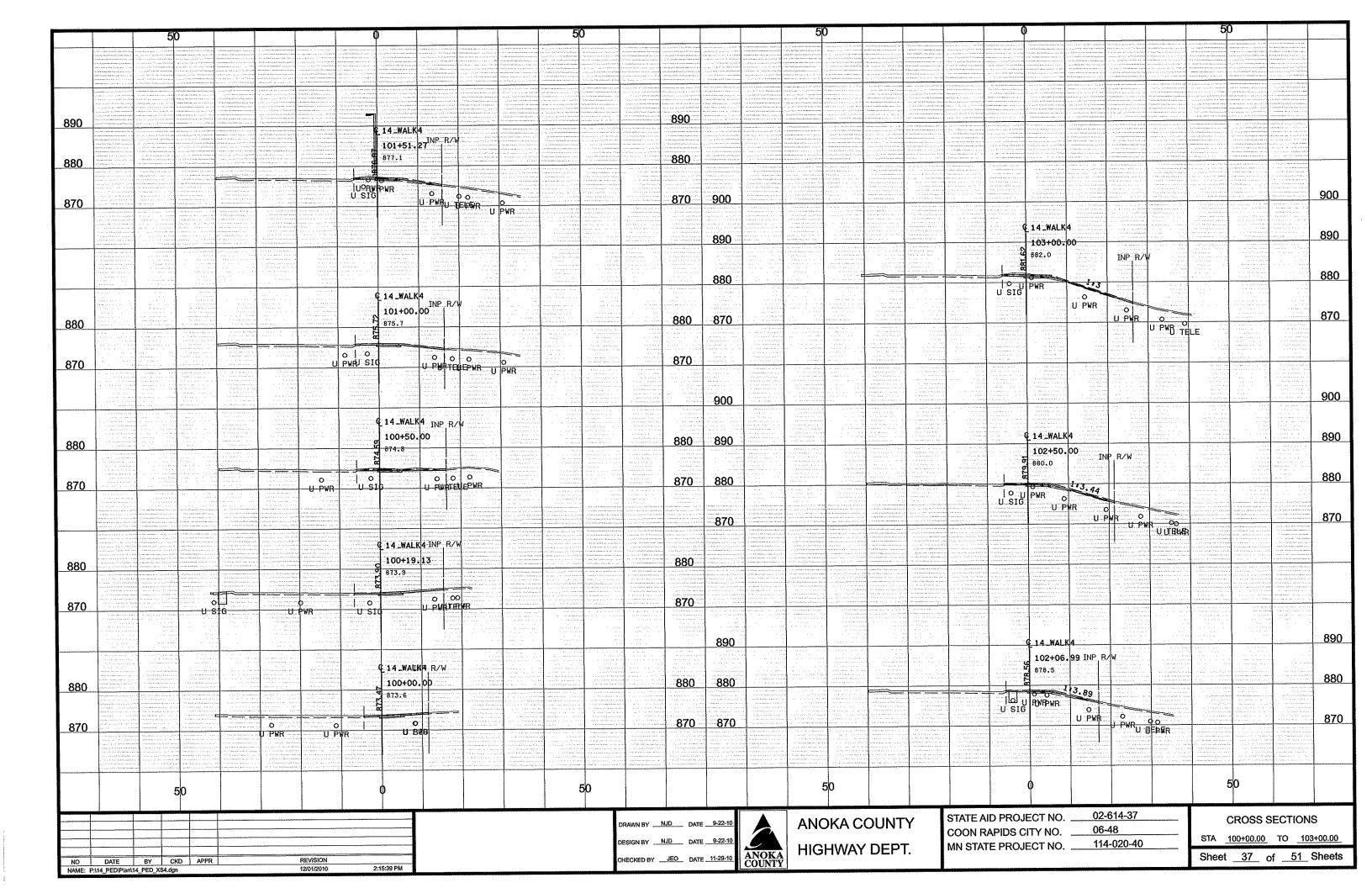
	JANUARY 31, 1985	
	STANDARD APPROVED:	ALONG ROADWAYS AND AT GORE AREAS & BRIDGE APPROACH FILLS
	5-297.406	PERMANENT EROSION CONTROL
-	STANDARD SHEET NO.	TITLE

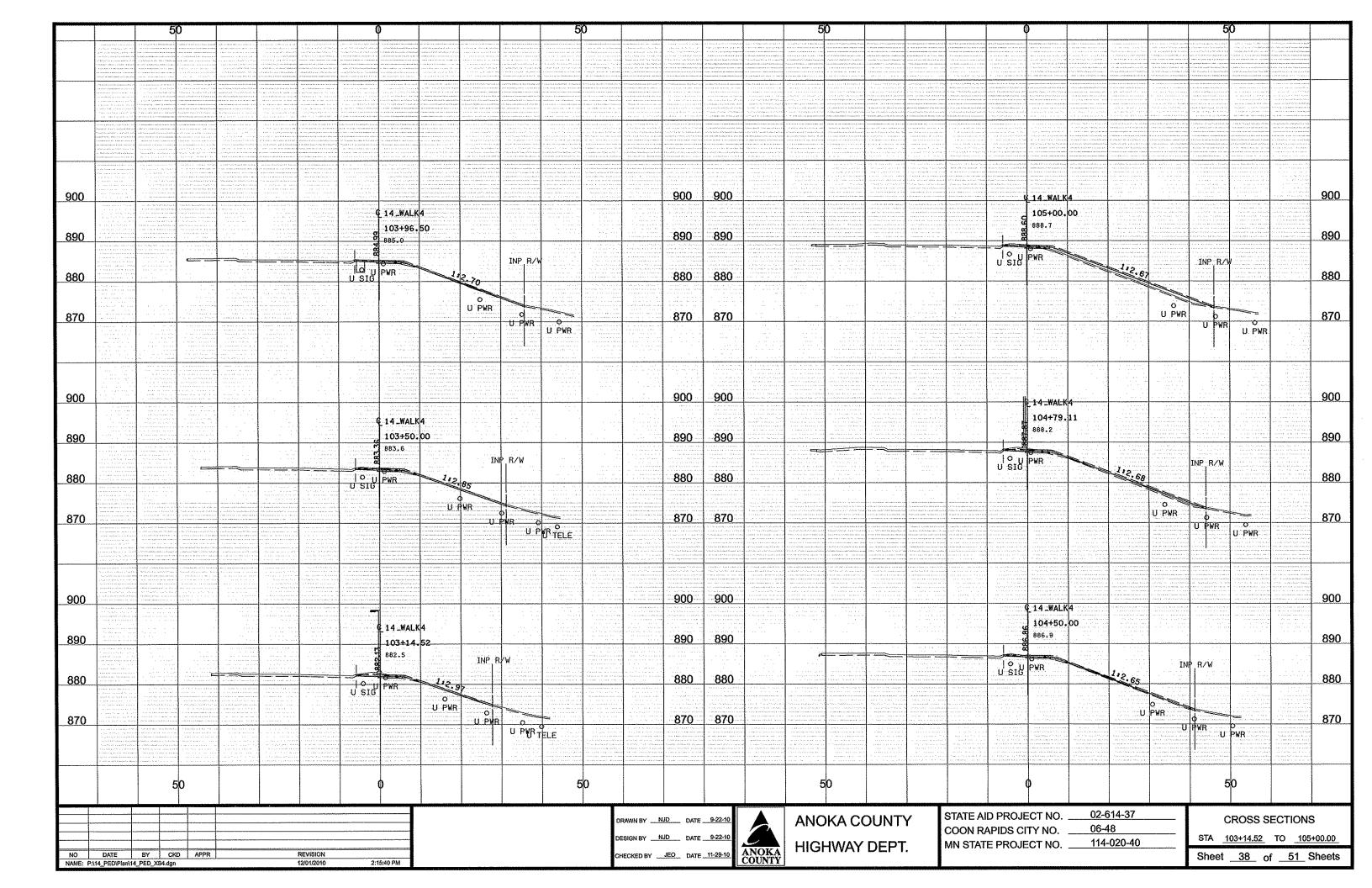
REVISION DATE 10-26-2000

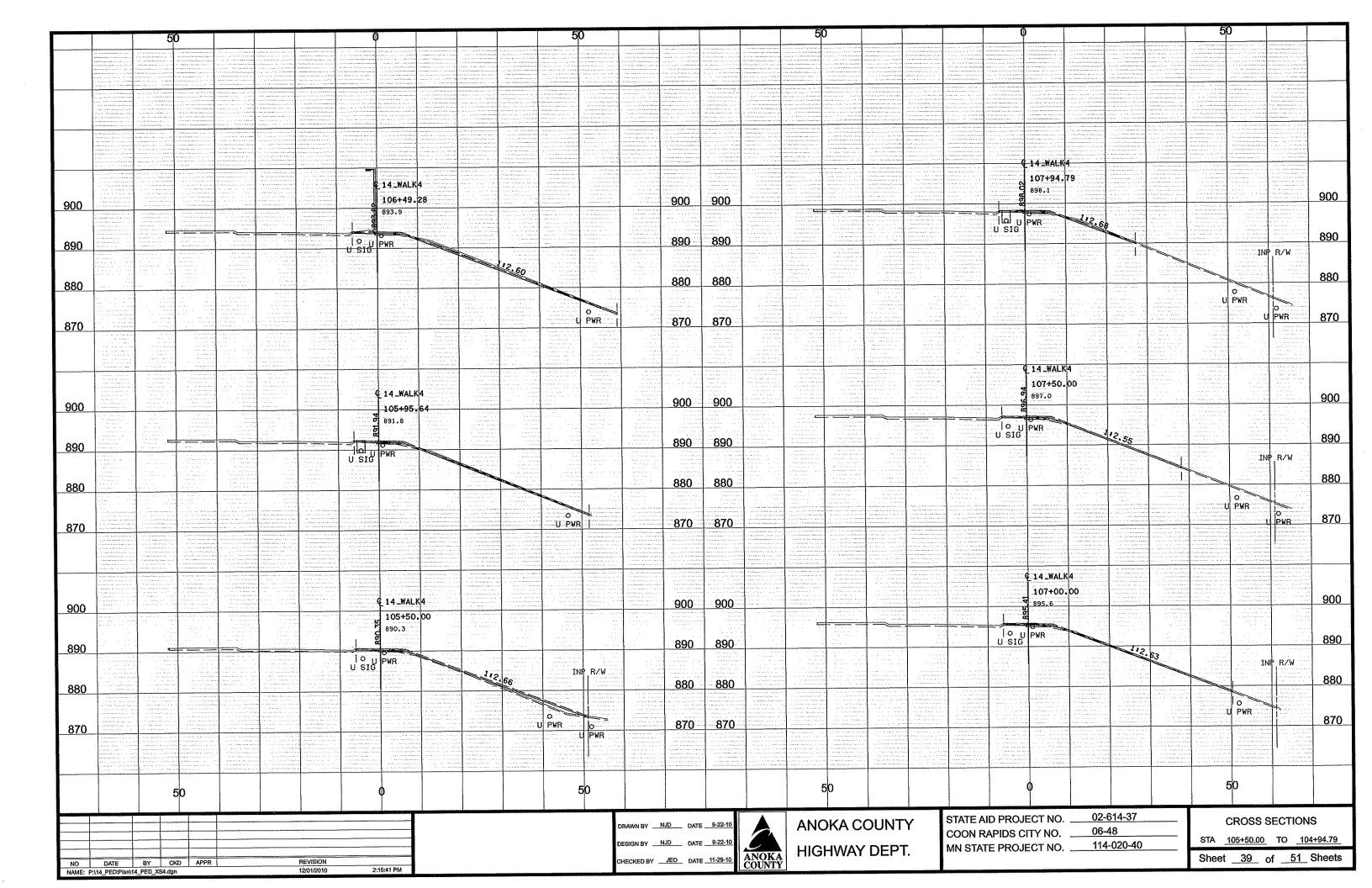
STATE AID PROJECT NO. 02-614-37

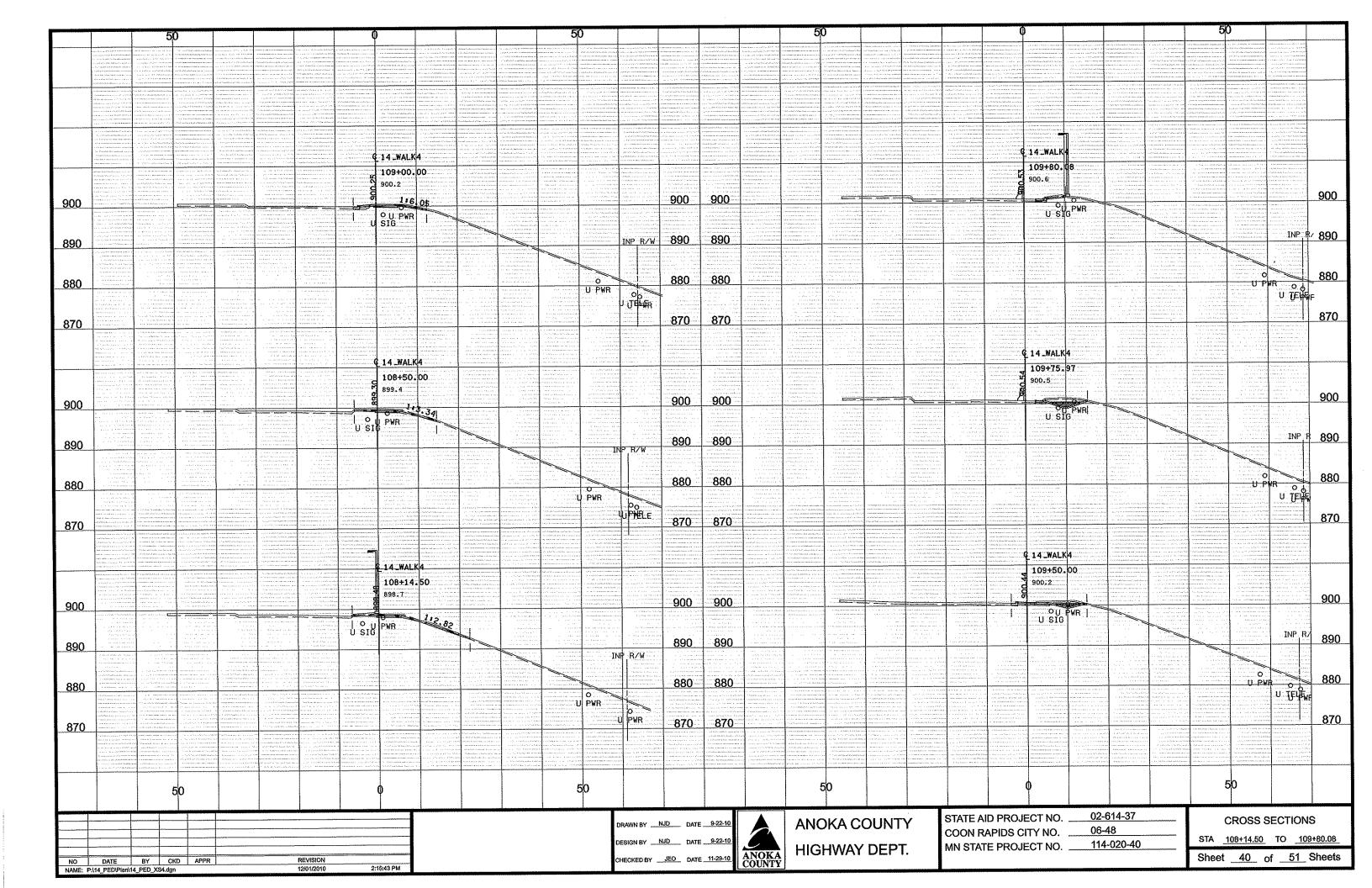
SHEET NO. 35 OF 51 SHEETS

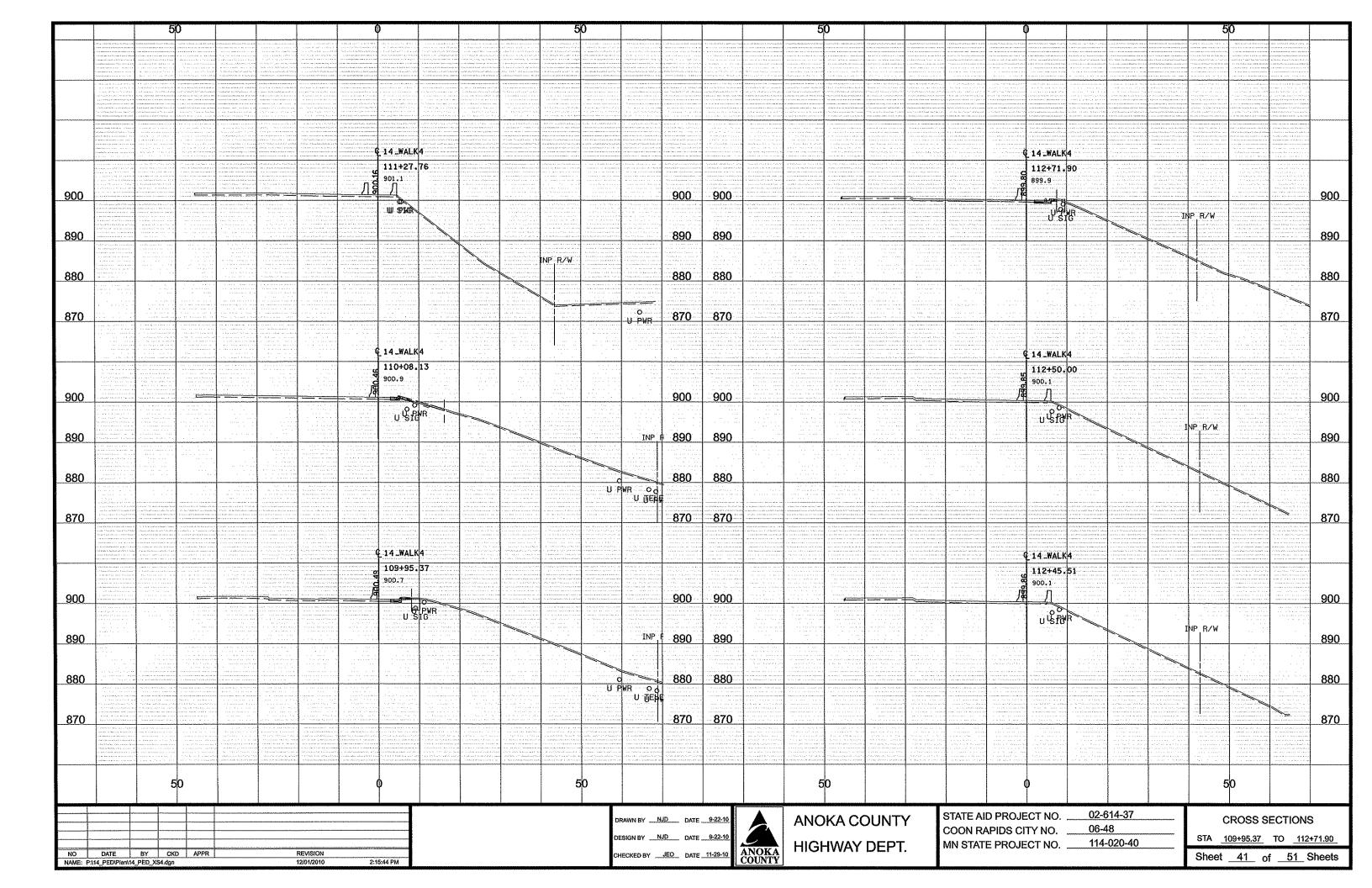


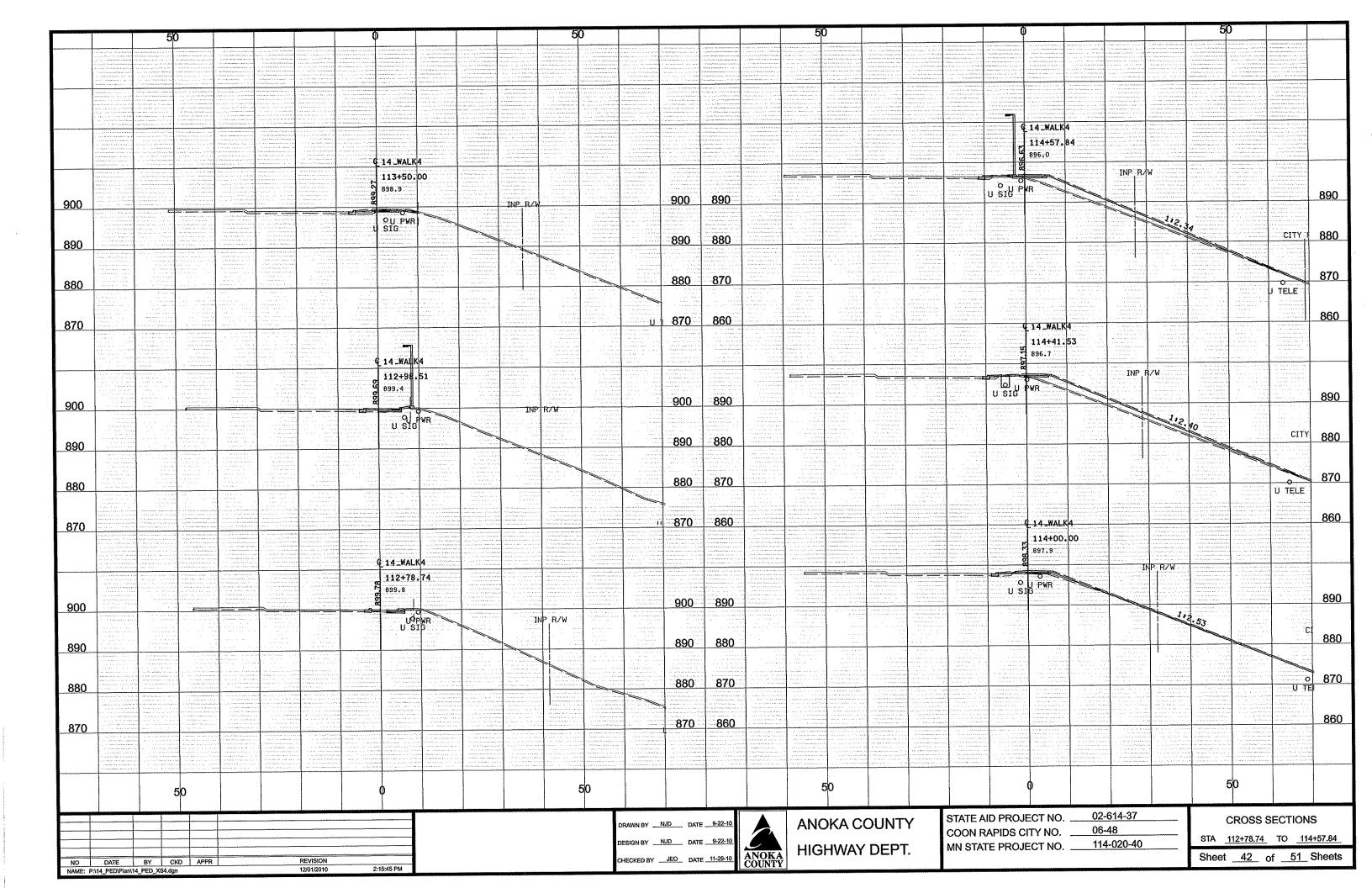


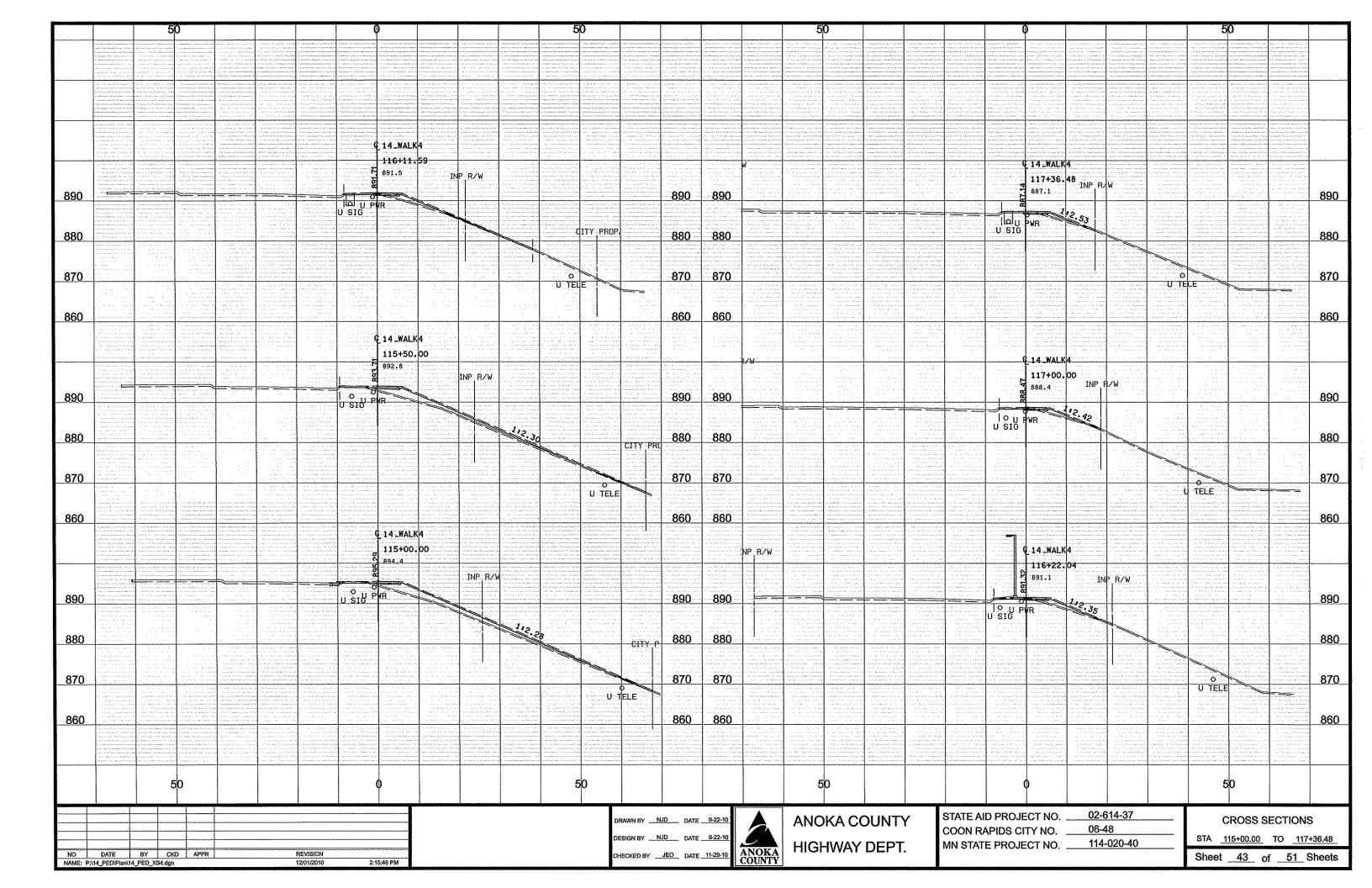


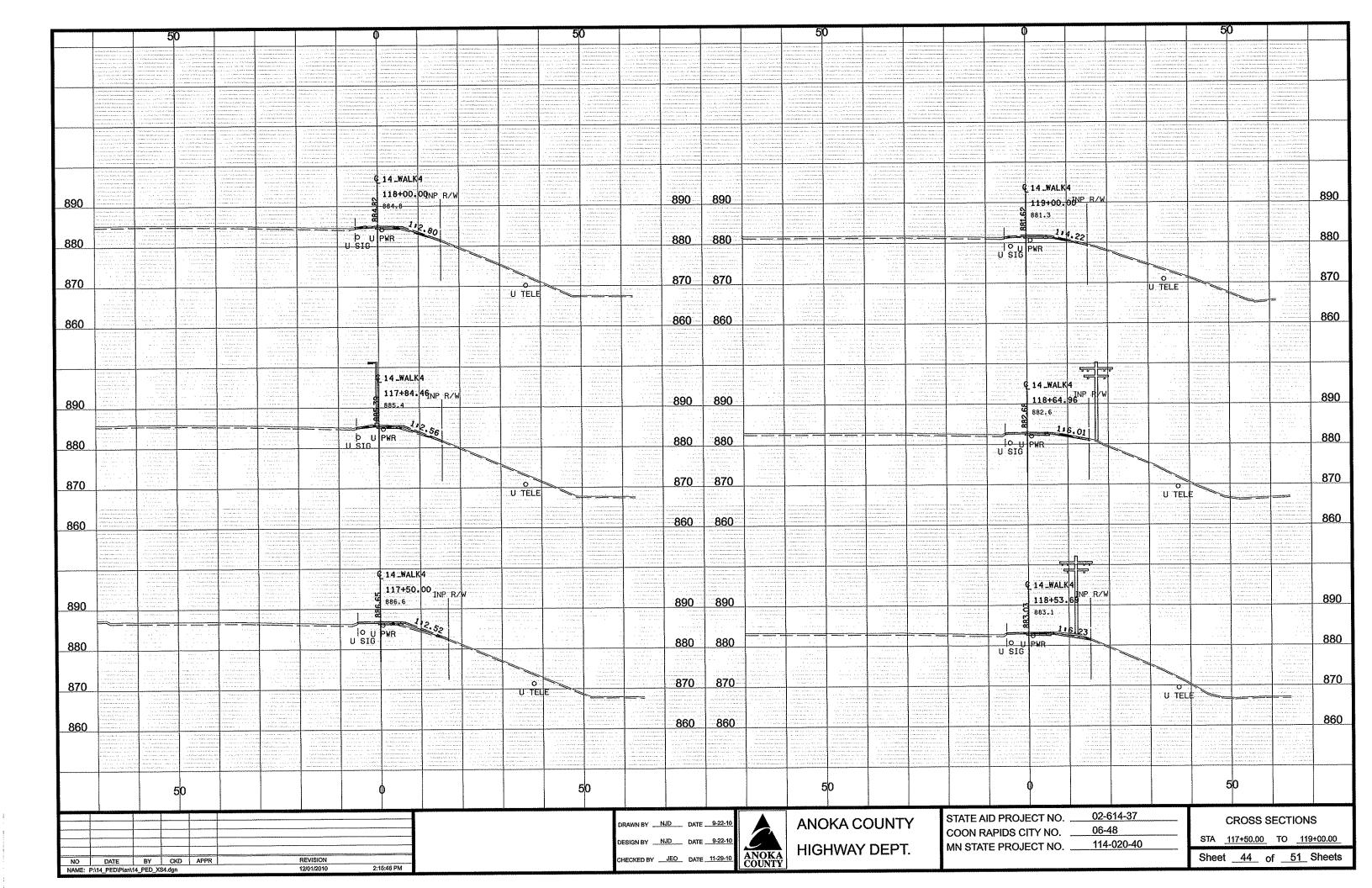


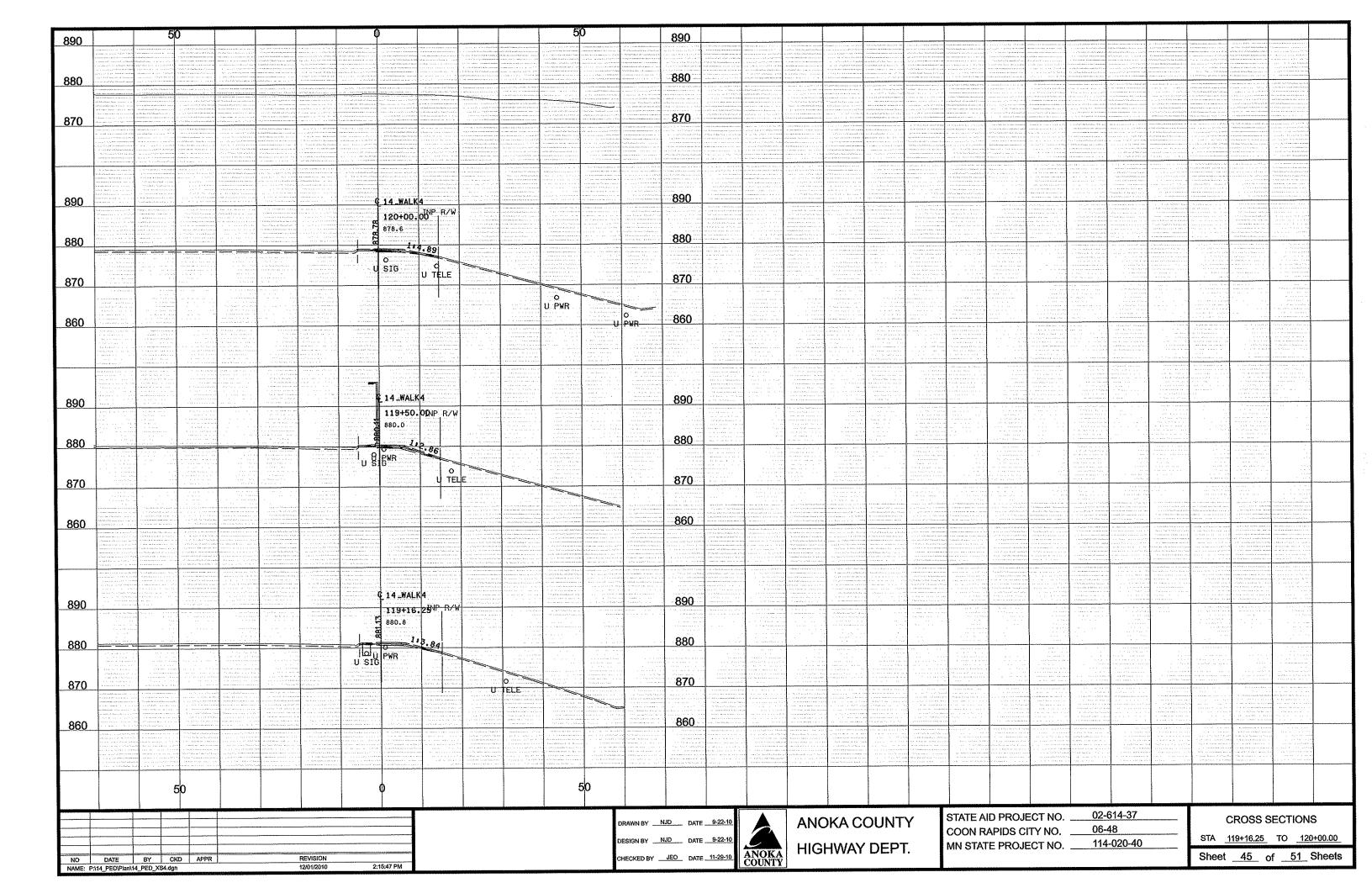


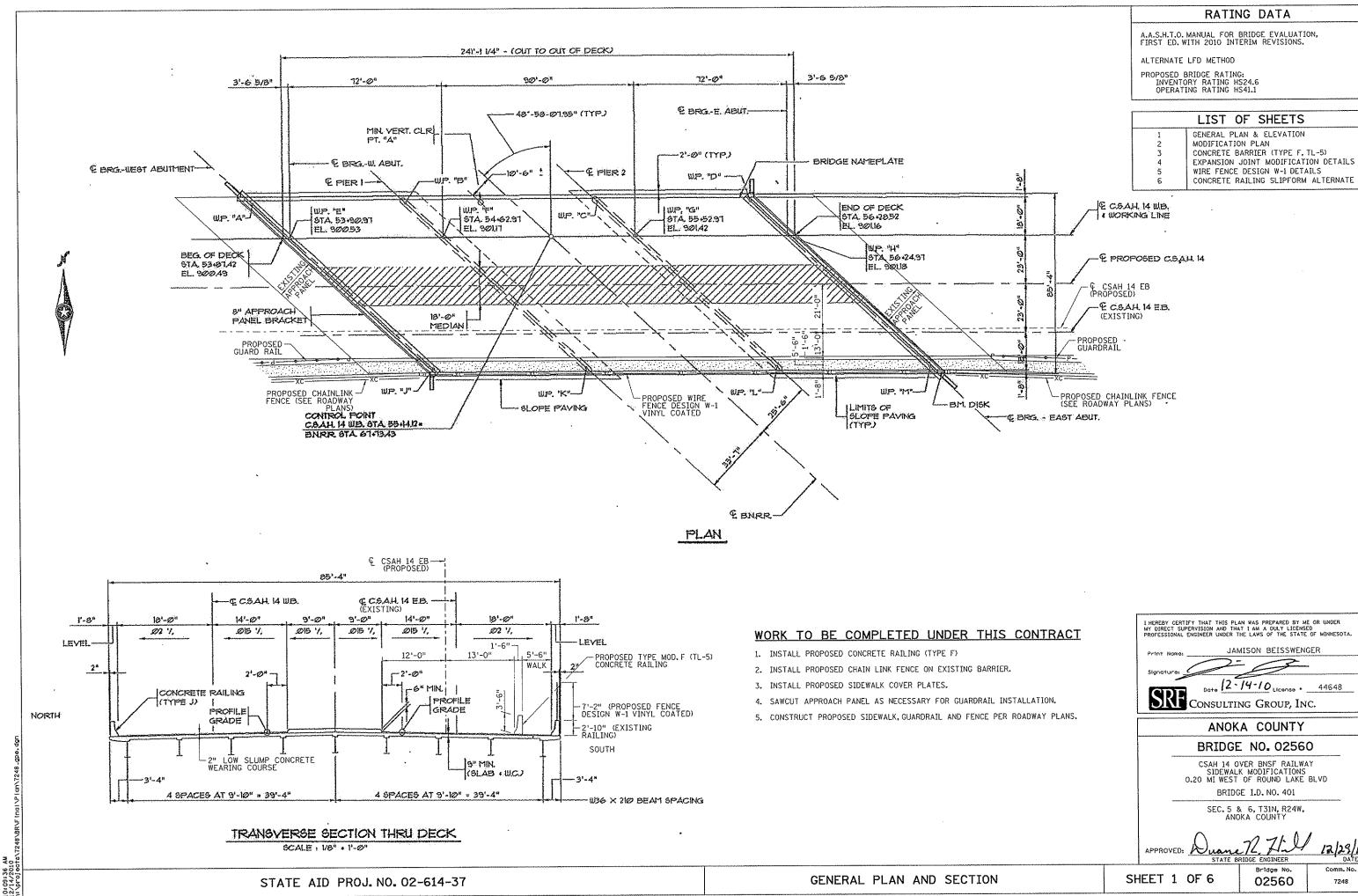




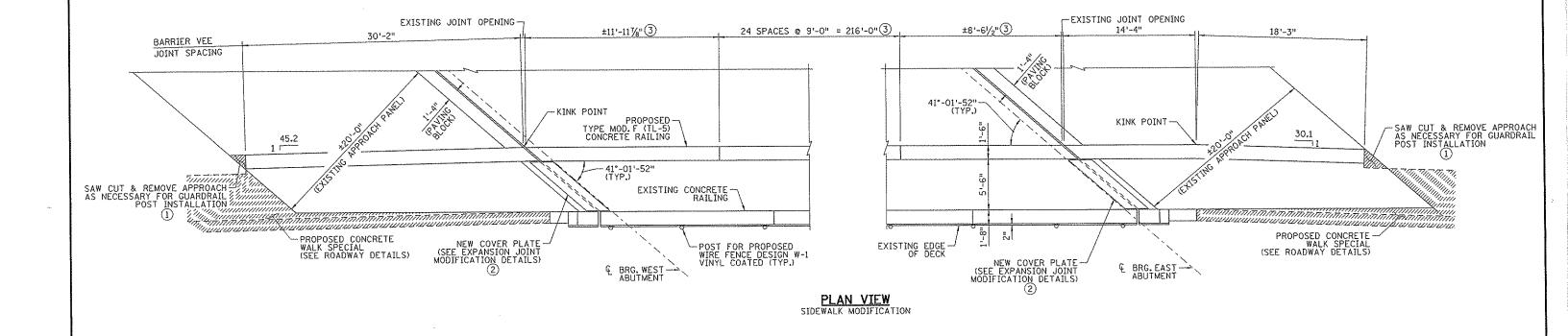








...\AR\Finai\Pian\7248 ...ea.don



NOTES:

- ① PAID FOR UNDER ITEM 2433.618 "RECONSTRUCT APPROACH PANEL".
- 2) PAID FOR UNDER ITEM 2433.602 "RECONSTRUCT EXPANSION JOINT END".
- 3 CONTRACTOR SHALL ADJUST DIMENSIONS AS REQUIRED TO LINE UP VEE JOINTS WITH EXISTING DECK SAWCUT OVER PIERS.

SCHEDULE OF QUANTITIES FOR BRIDGE NO. 02560 SIDEWALK MODIFICATIONS								
ITEM NO.	ITEM	UNIT	QUANTITY					
2401.513	TYPE MOD F (TL-5) RAILING CONCRETE (3Y46)	LIN. FT.	300 (P)					
2401.541	REINFORCEMENT BARS (EPOXY COATED)	POUND	8630 (P)					
2433.516	ANCHORAGES TYPE REINF BARS	EACH	790 (P)					
2433.602	RECONSTRUCT EXPANSION JOINT END	EACH	2 (P)					
2433.618	RECONSTRUCT APPROACH PANEL	SQ. FT.	5					
2557.501	WIRE FENCE DESIGN W-1 VINYL COATED	LIN. FT.	245 (P					

SHEET 2 OF

RFIn							_
248/B		I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under		DRAWN BY E. JOHNSON		ANOKA COUNTY	15
#.≱L		the lows of the State of Minnesota. Print Name: JAMISON BEISSWENGER	BRIDGE NO.	DESIGNED BY J. BEISSWENGER	Consulting	OLD	
1122		Print Name:	02560	CHECKED BY L. ERICKSON	GROUP, INC.	CSAH 14 BRIDGE OVER BNSF-SIDEWALK MOD.	ĺ
11717 12/14	NO DATE BY CKD APPR REVISION\BR\Final\Pian\7248_rai01.dgn	Date 12-14-/0 License # 44648		COMM. NO. 7248			L

