

STATEMENT OF ESTIMATED QUANTITIES							
TABLE	NOTE NO.	ITEM NUMBER	ITEM	UNIT	TOTAL QTY	S.P. 82-619-14 QUANTITY	C.P. 201913 QUANTITY
		2021.501	MOBILIZATION	LS	0.6	0.3	0.3
A	1	2101.502	CLEARING	TREE	8	8	
A	1	2101.507	GRUBBING	TREE	8	8	
	9	2104.501	REMOVE GUARD RAIL	LF	191		191
	10,2	2104.505	REMOVE BITUMINOUS SHOULDER PAVEMENT	SY	5603		5603
D	2	2104.505	REMOVE BITUMINOUS PAVEMENT	SY	1232	1232	
B	2	2104.505	REMOVE CONCRETE WALK	SY	21	21	
	7	2104.509	REMOVE ANCHORAGE ASSEMBLY-PLATE BEAM	EACH	1	1	
	7	2104.509	REMOVE TWISTED END TREATMENT	EACH	1	1	
	9	2104.509	REMOVE ECCENTRIC LOADER BCT	EACH	1		1
C		2104.511	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LF	21	21	
C		2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LF	16		16
J		2104.523	SALVAGE SIGN TYPE C	EACH	27	27	
K		2104.523	SALVAGE SIGN TYPE D	EACH	8	8	
L	2	2105.501	COMMON EXCAVATION (P)	CY	2138	2138	
L		2105.523	COMMON BORROW (CV) (P)	CY	3042	3042	
L	13	2105.607	PREMIUM TOPSOIL BORROW (LV)	CY	169	169	
	6	2211.501	AGGREGATE BASE CLASS 5	TON	180	180	
G		2211.503	AGGREGATE BASE (CV) CLASS 5 (P)	CY	506	506	
G		2221.501	AGGREGATE SHOULDERING CLASS 2	TON	216		216
D		2232.501	MILL BITUMINOUS SURFACE (2.0")	SY	52822		52822
D		2331.604	BITUMINOUS PAVEMENT RECLAMATION	SY	4772	4772	
G	14	2350.501	TYPE LV 4 WEARING COURSE MIXTURE (B)	TON	2517	894	1623
G	14	2350.501	TYPE MV 3 WEARING COURSE MIXTURE (E)	TON	6176		6176
G	15	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	4490		4490
I		2521.501	4" CONCRETE WALK	SF	501	501	
I		2531.618	TRUNCATED DOMES	SF	186	186	
	8	2554.523	END TREATMENT TANGENT TERMINAL	EACH	1		1
	3	2554.523	END TREATMENT TANGENT TERMINAL	EACH	1	1	
	4	2563.601	TRAFFIC CONTROL	LS	0.5		0.5
J		2564.537	INSTALL SIGN TYPE C	EACH	27	27	
K		2564.537	INSTALL SIGN TYPE D	EACH	8	8	
	12	2565.602	NMC LOOP DETECTOR 6' X 6'	EACH	4		4
E	16	2573.502	SILT FENCE, TYPE MACHINE SLICED	LF	4283	4283	
F,H		2575.501	SEEDING	ACRE	1.8	1.8	
F,H		2575.502	SEED MIXTURE 250	LB	134	134	
F,H		2575.505	SODDING TYPE SALT RESISTANT	SY	868	868	
F,H		2575.511	MULCH MATERIAL TYPE 1	TON	3.6	3.6	
F,H		2575.519	DISK ANCHORING	ACRE	1.8	1.8	
F,H		2575.523	EROSION CONTROL BLANKETS CATEGORY 3	SY	1903	1903	
F,H		2575.531	FERTILIZER, TYPE 1	TON	0.3	0.3	
	11	2582.501	PVMT MESSAGE (STOP AHEAD) POLY PREFORMED	EACH	2		2
	11	2582.501	PVMT MESSAGE (RIGHT ARROW) POLY PREFORMED	EACH	18		18
	11	2582.501	PVMT MESSAGE (LEFT ARROW) POLY PREFORMED	EACH	24		24
	11	2582.502	4" SOLID LINE WHITE-EPOXY	LF	17050		17050
	11	2582.502	4" BROKEN LINE WHITE-EPOXY	LF	2550		2550
	11	2582.502	4" SOLID LINE YELLOW-EPOXY	LF	12750		12750
	11	2582.502	24" STOP LINE WHITE-POLY PREFORMED	LF	50		50
	5	2582.503	CROSSWALK MARKING - POLY PREFORMED	SF	503	503	

"THE FOLLOWING STANDARD PLATES APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION SHALL APPLY ON THIS PROJECT."

STANDARD PLATES	
PLATE NO.	DESCRIPTION
7036 F	PEDESTRIAN CURB RAMP
8000 I	STANDARD BARRICADES

- LIMITS OF ALL CLEARING AND GRUBBING SHALL BE STAKED IN THE FIELD.
- ALL REMOVAL ITEMS, INCLUDING BITUMINOUS AND CONCRETE MATERIAL, SHALL BE DISPOSED OF OFF-SITE. NO DISPOSAL SHALL BE ALLOWED IN COUNTY RIGHT OF WAY OR EASEMENTS.
- SEE PAGE 19 FOR LOCATION OF BRAKEMASTER 350. INSTALL AS PER MANUFACTURES INSTRUCTIONS.
- TRAFFIC CONTROL FOR TRAIL CONSTRUCTION AND MILL AND OVERLAY. ALL TRAFFIC CONTROL SIGNING AND DEVICES SHALL CONFORM TO THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING "TEMPORARY TRAFFIC CONTROL LAYOUTS FIELD MANUAL" TRAFFIC CONTROL SHALL BE PAID FOR AS A LUMP SUM ITEM. SEE THE SPECIAL PROVISIONS FOR COMPLETE TRAFFIC CONTROL REQUIREMENTS.
- SEE PAGE 19, 21 AND 24 FOR CROSSWALK MARKING LOCATION AND PLACEMENT DETAILS.
- CLASS 5 AGGREGATE BASE FOR SHOULDER SHAPING AND FOR THE ENTRANCE AT STATION 52+85 AND 66+20. SEE PAGE 20 AND 21 FOR THE ENTRANCE LOCATION AND PLACEMENT DETAILS.
- SEE PAGE 15 FOR TWISTED END TREATMENT AND ANCHORAGE ASSEMBLY REMOVAL LOCATIONS.
- SEE PAGE 21 FOR LOCATION OF ET-2000, INSTALL PER MANUFACTURERS INSTRUCTIONS.
- SEE PAGE 17 FOR BCT END TREATMENT AND GUARD RAIL REMOVAL LOCATIONS.
- SEE MILL AND OVERLAY TYPICAL SECTION, PAGE 14 FOR SHOULDER REMOVAL LOCATIONS.
- SEE STRIPING AND PAVEMENT MARKING DETAILS, PAGES 23-25.
- SEE PAGES 15 AND 28 FOR LOOP DETECTOR LOCATIONS AND INSTALLATION DETAILS.
- TOPSOIL SHALL BE SCREENED AND PULVERIZED.
- BITUMINOUS COMPUTED AT 110 LBS/SY/IN.
- TACK COAT COMPUTED AT 0.05 GAL/SY FOR UNMILLED SURFACES AND 0.085 GAL/SY FOR MILLED SURFACES.
- INCLUDES REMOVING SEDIMENT BUILD-UP AND REPAIRING, REPLACING, OR SUPPLEMENTING WHEN NON-FUNCTIONAL.

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6/1/2007

Washington
County

DRAWN BY: DN
DESIGNER: DN
CHECKED BY:

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.
Cory B. Slagle
DATE: 6/1/07 NO. 26759

ESTIMATED QUANTITIES
AND STANDARD PLATES

S.P. 82-619-14, C.P. 201913

SHEET
2
OF
70

CLEAR & GRUB A			
ALIGNMENT	STATION	LOCATION	TREE
EOB	18+67	RT	1
EOB	21+83	RT	1
EOB	21+99	RT	1
EOB	22+31	RT	1
EOB	22+55	RT	1
EOB	22+66	RT	1
EOB	31+49	RT	1
EOB	31+85	RT	1
TOTAL			8

SAWCUTS (1) C				
ALIGNMENT	STATION TO STATION	LOCATION	BITUMINOUS	CONCRETE
			SAWCUT	SAWCUT
			FT	FT
EOB	20+34 (2)	RT		7
EOB	20+66 (2)	RT		7
EOB	20+75 (2)	RT		7
CL	77+88	RT	8	
CL	80+05	RT	8	
		TOTALS	16	21

(1) EXACT LENGTHS AND LOCATIONS TO BE DETERMINED BY ENGINEER IN THE FIELD.

(2) TO BE USED IF NECESSARY FOR REMOVAL OF EXISTING CURB RAMPS.

SILT FENCE (MACHINE SLICED) E		
ALIGNMENT	STATION TO STATION	SILT (1,2)
		FENCE
		LF
EOB	STA. 11+80 TO 20+41	883
EOB	STA. 20+96 TO 23+17	233
EOB	STA. 26+50 TO 28+74	233
EOB	STA. 29+02 TO 34+96	602
CL	STA. 77+78 TO 78+91	127
CL	STA. 79+48 TO 80+12	75
CL	STA. 83+91 TO 105+20	2129
	TOTAL	4283

REMOVE CONCRETE WALK B			
ALIGNMENT	STATION	LOCATION	REMOVE
			CONCRETE
			WALK (3)
			SQ. YD.
EOB	20+34	RT	6
EOB	20+66	RT	10
EOB	20+75	RT	5
		TOTAL	21

(3) EXACT LENGTHS AND LOCATIONS TO BE DETERMINED BY ENGINEER IN THE FIELD.

BITUMINOUS PAVEMENT MILLING, REMOVAL AND RECLAMATION D						
ALIGNMENT	STATION TO STATION	LOCATION (4)	REMOVE	REMOVE	MILL 2"	BITUMINOUS
			BITUMINOUS	BITUMINOUS	BITUMINOUS	PAVEMENT
			PAVEMENT	SHOULDER PAVEMENT	SURFACE	RECLAMATION
			SQ. YD.	SQ. YD.	SQ. YD.	SQ. YD.
MAINLINE, TURNLANES & SHOULDERS (NB & SB)						
EOB, CL	12+10 TO 79+00	MAINLINE & TURNLANES			51037 (6)	
EOB	12+10 TO 35+00	OUTSIDE SHOULDERS			1785	
CL	35+00 TO 79+00	OUTSIDE SHOULDERS		5603		
TRAIL CONSTRUCTION						
CL	35+54 TO 77+88	RT (5)				3764
CL	77+88 TO 78+77	RT (5)	75			
CL	97+65 TO 80+05	RT (5)	30			
CL	80+05 TO 83+91	RT (5)				343
CL	83+91 TO 96+59	RT (5)	1127			
CL	97+71 TO 105+20	RT (5)				665
		TOTALS	1232	5603	52822	4772

(4) EXACT LENGTHS AND LOCATIONS TO BE DETERMINED BY ENGINEER IN THE FIELD.

(5) EXISTING TRAIL

(6) INCLUDES MILLING AREA ON CSAH 10.

TURF ESTABLISHMENT				F
ALIGNMENT	STATION TO STATION	SOD AREA	TYPE 1 MULCH & SEED MIX 250	EROSION CONTROL BLANKETS WITH SEED MIX 250
			MIX 250	CAT. 3
		SY	SY	SY
EOB	STA. 11+95 TO 14+61	575		
EOB	STA. 12+13 TO 14+61	293		
EOB	STA. 14+61 TO 20+50		2478	
EOB	STA. 20+96 TO 23+17		310	
EOB	STA. 21+50 TO 23+17			293
EOB	STA. 26+50 TO 28+72		683	
EOB	STA. 29+07 TO 30+00		196	
EOB	STA. 29+14 TO 34+87		675	
EOB	STA. 30+00 TO 34+50			1229
EOB	STA. 34+50 TO 35+00		95	
CL	STA. 76+05 TO 78+93		278	
CL	STA. 79+46 TO 80+05		49	
CL	STA. 83+91 TO 86+68		418	
CL	STA. 86+68 TO 88+37			380
CL	STA. 88+37 TO 105+20		1542	
TOTAL		868	6724	1903

- (1) SALT RESISTANT SOD SHALL BE USED.
- (2) FERTILIZE ALL AREAS DISTURBED BY CONSTRUCTION.
- (3) PLACE A MINIMUM OF 4" TOPSOIL ON ALL DISTURBED AREAS.
- (4) ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE OF THE CONSTRUCTION LIMITS SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE.

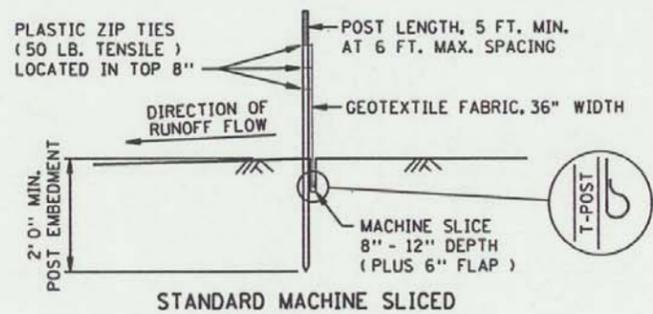
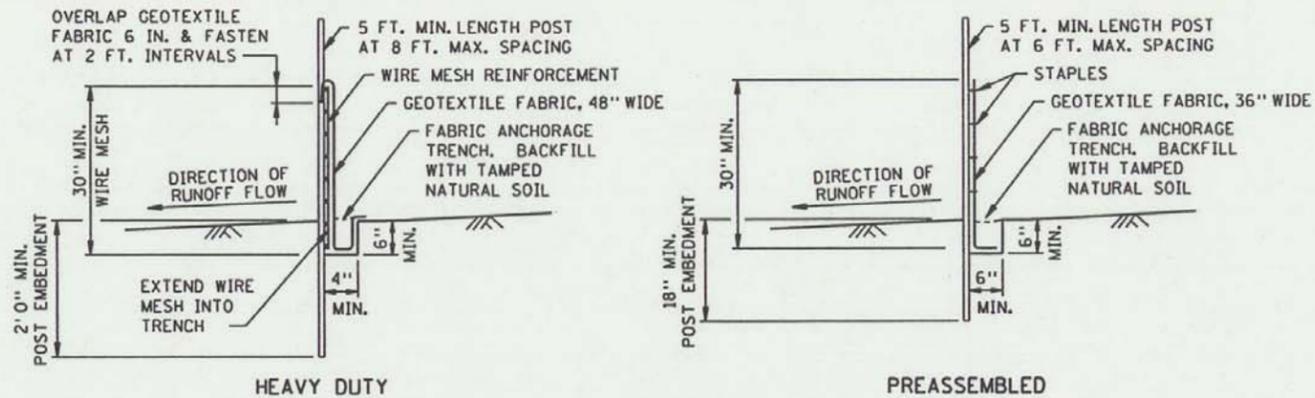
RATES OF APPLICATION					H
ITEM	RATE OF APPLICATION	SQ YDS	ACRES	TOTAL	
SODDING		868	0.2	868 SY	
E.C. BLANKET - CAT. 3		1903	0.4	1903 SY	
TOTAL SEEDING AREA		8626	1.8	1.8 ACRES	
TOTAL SEED MIXTURE 250	75 LB PER ACRE	8626	1.8	134 LB	
TOTAL MULCH MATERIAL TYPE 1	2 TONS PER ACRE	8626	1.8	3.6 TONS	
DISC ANCHORING (MULCH TYPE 1 ONLY)	ACRE	8626	1.8	1.8 ACRES	
FERTILIZER, ANALYSIS 22-5-10	0.175 TONS PER ACRE	8626	1.8	0.3 TONS	

BITUMINOUS AND AGGREGATE						G
ALIGNMENT	LOCATION	TYPE MV 3 WEARING COURSE	TYPE LV 4 WEARING COURSE	BITUMINOUS MATERIAL FOR TACK COAT	CLASS 5 AGG. BASE	CLASS 2 AGG. SHOULDERING
		TON (5)	TON (5)	GALLON (6)	CU YD	TON (8)
		MAINLINE, TURNLANES & SHOULDERS (NB & SB)				
EOB	STA. 12+10 TO 35+00	1812	196	1552		54
CL	STA. 35+00 TO 79+00	3802 (7)	616	2938		162
TRAIL CONSTRUCTION						
EOB	STA. 11+95 TO 20+43		129		103	
EOB	STA. 20+96 TO 23+17		32		26	
EOB	STA. 26+47 TO 28+74		32		26	
EOB	STA. 29+05 TO 35+00		89		71	
CL	STA. 35+54 TO 77+88		784			
CL	STA. 77+88 TO 78+93		16		13	
CL	STA. 79+48 TO 80+05		9		7	
CL	STA. 80+05 TO 83+91		59			
CL	STA. 83+91 TO 105+20		325		260	
TOTAL		6176	2517	4490	506	216

- (5) BITUMINOUS COMPUTED AT 110 LBS/SY/IN.
- (6) TACK COAT COMPUTED AT 0.05GAL/SY FOR UNMILLED AND 0.085 GAL/SY FOR MILLED SURFACES.
- (7) INCLUDES CSAH 10 OVERLAY AREA.
- (8) AGGREGATE SHOULDERING COMPUTED AT 2 TONS/CY.

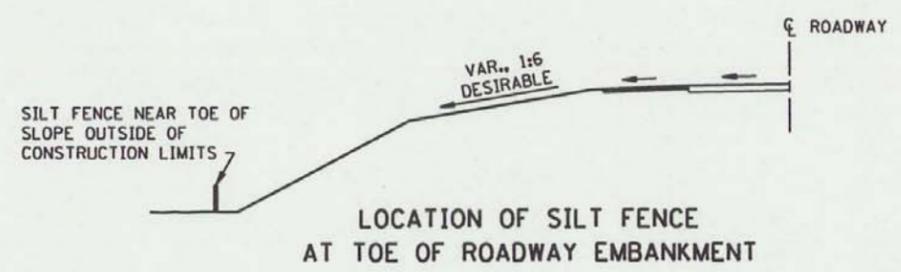
4" CONCRETE WALK, TRUNCATED DOMES					I
ALIGNMENT	STATION	LOCATION	TRUNCATED DOMES	4" CONCRETE WALK	
			SQ. FT.	SQ. FT.	
EOB	20+36 (10)	RT	20	60	
EOB	20+57 (9)	RT	8	46	
EOB	20+66 (9)	RT	10	78	
EOB	20+75 (9)	RT	8	37	
EOB	21+00 (10)	RT	20	40	
EOB	28+69 (10)	RT	20	40	
EOB	29+15 (10)	RT	20	40	
EOB	34+85 (10)	RT	20	40	
CL	35+60 (10)	RT	20	40	
CL	78+86 (10)	RT	20	40	
CL	79+56 (10)	RT	20	40	
TOTALS			186	501	

- (9) SEE STANDARD PLATE 7036 FOR PEDESTRIAN CURB RAMP DETAILS.
- (10) SEE STANDARD PLATE 7036 AND SHEET 7 FOR TRUNCATED DOME DETAILS.

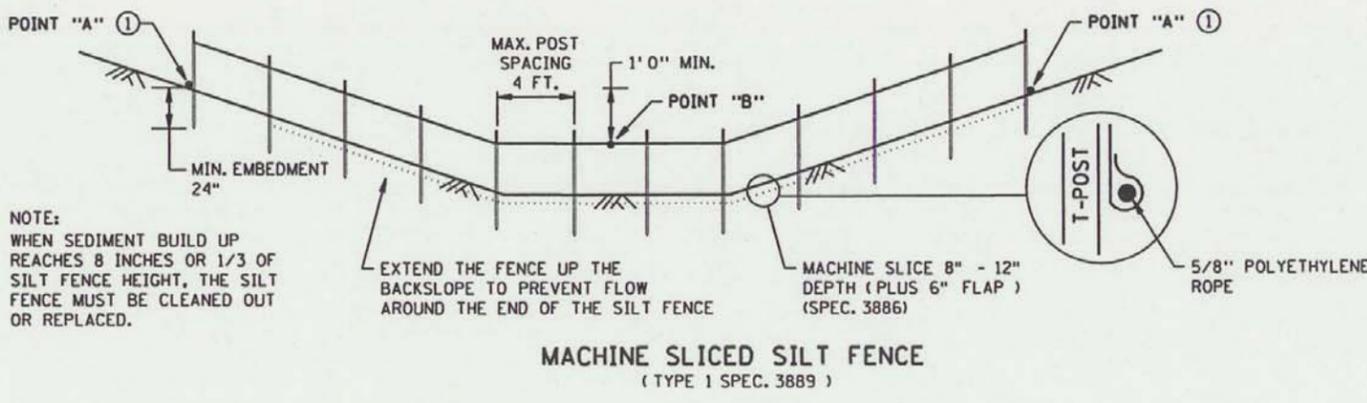


SILT FENCE DETAILS
TO PROTECT AREAS FROM SHEET FLOW
(SEE SPEC. 3886)

DESIGN GUIDELINES:
MAXIMUM CONTRIBUTING AREA: 3 ACRES



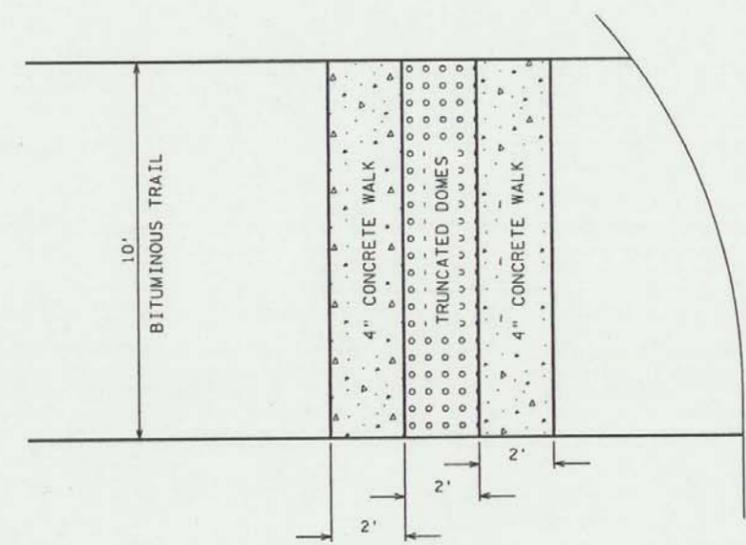
LOCATION OF SILT FENCE AT TOE OF ROADWAY EMBANKMENT



NOTE:
WHEN SEDIMENT BUILD UP REACHES 8 INCHES OR 1/3 OF SILT FENCE HEIGHT, THE SILT FENCE MUST BE CLEANED OUT OR REPLACED.

① POINT A MUST BE 1'0\"/>

TRUNCATED DOME DETAIL FOR TRAIL CROSSINGS
AT STATIONS; 20+36, 21+00, 28+69, 29+15,
34+85, 35+60, 78+86, 79+56



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	DRAWN BY: DN	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. CORY B. SLAGLE DATE 3/27/07 LIC. NO. 26759	TEMPORARY EROSION CONTROL DETAILS		SHEET 7 OF 70
	DESIGNER: DN		CHECKED BY:	SILT FENCE & TRUNCATED DOMES	
			S.P. 82-619-14, C.P. 201913		

THE PLAN INDICATES THE GENERAL LOCATION OF KNOWN UTILITIES ON THE PROJECT. ALL UTILITY LOCATIONS ARE APPROXIMATE. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITY LOCATIONS AND ELEVATIONS WITH THE UTILITY COMPANIES. 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."

SCALE IN FEET
0 50 100



BEGIN S.P. 82-619-14
BEGIN CONSTRUCTION
STA. 11+95

ALIGNMENT EOB

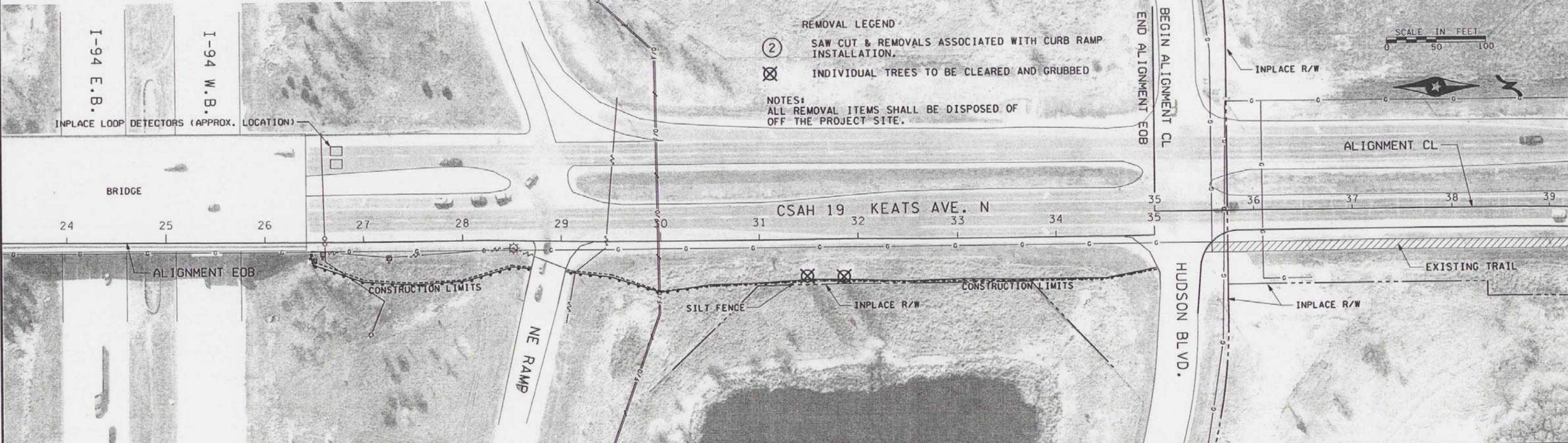
UTILITY LEGEND

STREET LIGHT	
TRAFFIC SIGNAL	
TRAFFIC HANDHOLD	
UTILITY POLE	
CATCH BASIN	
STORM SEWER	
WATERLINE	
GAS LINE	
BURIED ELECTRIC	
BURIED TELEPHONE	
STREET LIGHTING	
FIBER OPTIC IN CONDUIT	
BURIED TRAFFIC SIGNAL WIRE	
TRAFFIC MANAGEMENT	

HUDSON RD.

CSAH 19 WOODBURY DR.

SE RAMP



REMOVAL LEGEND

② SAW CUT & REMOVALS ASSOCIATED WITH CURB RAMP INSTALLATION.

⊗ INDIVIDUAL TREES TO BE CLEARED AND GRUBBED

NOTES:
ALL REMOVAL ITEMS SHALL BE DISPOSED OF OFF THE PROJECT SITE.

SCALE IN FEET
0 50 100



I-94 E.B.

I-94 W.B.

BEGIN ALIGNMENT CL
END ALIGNMENT EOB

BRIDGE

CSAH 19 KEATS AVE. N

HUDSON BLVD.

ALIGNMENT CL

EXISTING TRAIL



DRAWN BY: DN
DESIGNER: DN
CHECKED BY:

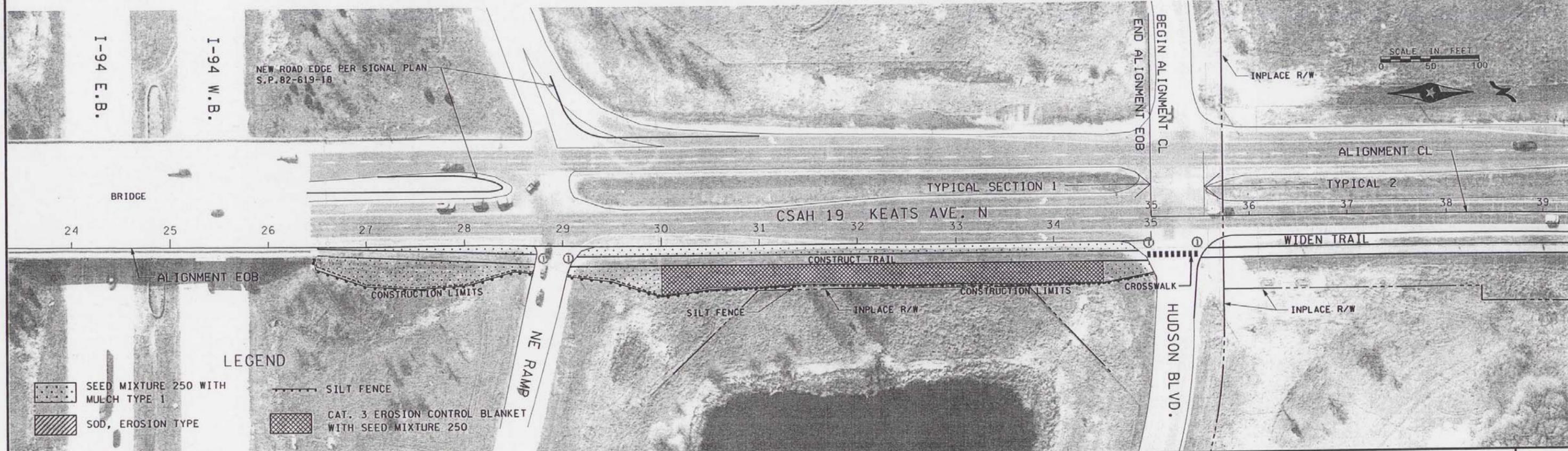
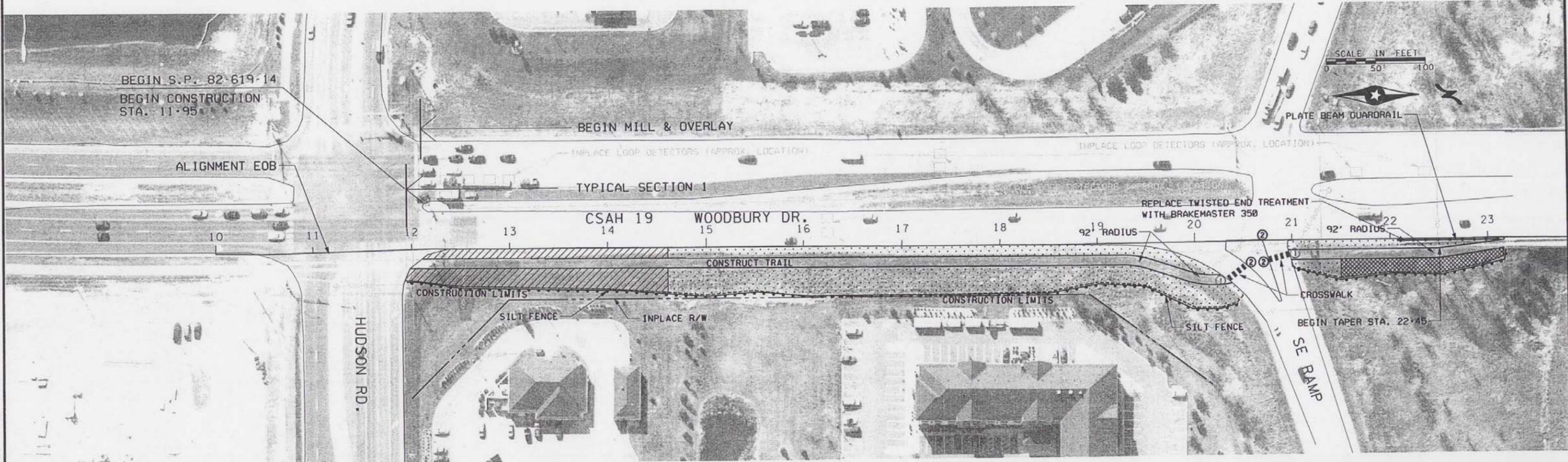
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Cory B. Slagle
CORY B. SLAGLE
DATE 3/27/07 L.T.C. NO. 26759

UTILITY & REMOVAL PLAN
STA. 10+00 TO 35+39
S.P. 82-619-14, C.P. 201913

SHEET
15
OF
70

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3/9/2007



- LEGEND**
-  SEED MIXTURE 250 WITH MULCH TYPE 1
 -  SOD, EROSION TYPE
 -  SILT FENCE
 -  CAT. 3 EROSION CONTROL BLANKET WITH SEED MIXTURE 250
 - ① PLACE TRUNCATED DOMES, SEE DETAIL, PAGE 7
 - ② PLACE TRUNCATED DOMES, SEE STANDARD PLATE 7036F

"SILT FENCE SHALL FOLLOW, AS CLOSE AS POSSIBLE, TO SINGLE CONTOUR LINE."



DRAWN BY: DN
 DESIGNER: DN
 CHECKED BY:

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.
Wayne Sandberg
 DATE 4-6-07 LIC. NO. 40165

EROSION CONTROL/CONSTRUCTION PLAN
 STA. 10+000 TO 35+39
 S.P. 82-619-14, C.P. 201913

SHEET
 19
 OF
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