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B INDEX OF SHEETS

Sheet No. 1 Typical Sections and Details Sheet No. Estimate of Quantities Sheet No. Miscellaneous Quantities Sheet No. Right of Way Plat Sheet No. Plan and Profile Sheet No.

Standard Detail Drawings Sian Plates

Structure Plans

Computer Earthwork Data Sheet No. Cross Sections Sheet No.

TOTAL SHEETS =



DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

DRUMMOND - GRAND VIEW **USH 63**

BAYFIELD COUNTY

STATE PROJECT NUMBER 1560-18-71

FEDERAL PROJECT STATE PROJECT CONTRACT 1560-18-71 **USH 63 Bayfield** County Drummond - Grand View Northwoods Paving, Div of Mathy Bill Dandeneau

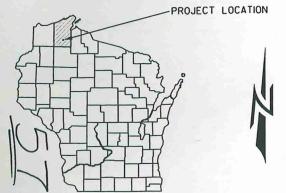
SUBCONTRACTORS

CENTURY FENCE CHIPPEWA CONCRETE. HI-BOOM ERECTING NORTHWOODS PAVING TIMME CONSTRUCTION TRAFFIC SIGNING AND MARKING

STARTED COMPLETED

8/21/2003 10/21/2003

FINAL CONTRACT AMOUNT 81,484,714.18



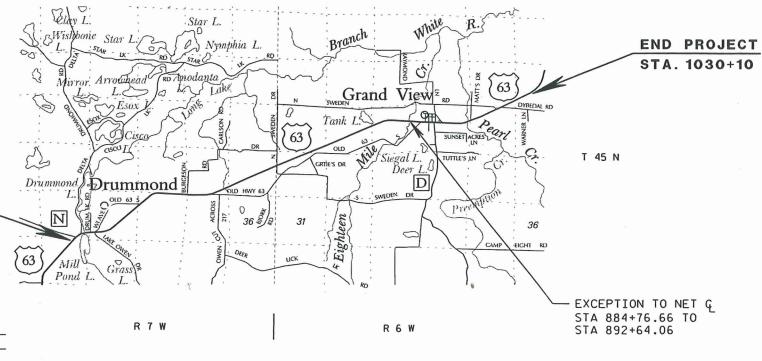
DESIGN DESIGNATION

A.D.T. (2002) = 1900 A.D.T. (2022) = 2450 (2022) = 9.3% D.H.V. = 60-40 T. % ADT = 13.9% DESIGN SPEED = 55 MPH ESALS = 766,500

BEGIN PROJECT

STA. 476+10

 $Y = 426800 (\pm 200)$ $X = 1680400 (\pm 200)$

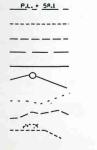


CONVENTIONAL SYMBOLS

COUNTY LINE CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SURVEY LINE SLOPE INTERCEPT ORIGINAL GROUND MARSH OR ROCK PROFILE

MARSH AREA

WOODED OR SHRUB AREA



1/1/1//

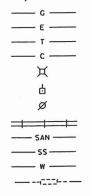
TELEPHONE OR TELEGRAPH COMMUNICATIONS LINE SERVICE PEDESTAL POWER POLE TELEPHONE POLE RAILROAD

COMBUSTIBLE FLUIDS

GAS ELECTRIC

UNDERGROUND UTILITIES

SANITARY SEWER STORM SEWER 「ボーガータ WATER EXISTING CULVERT PROPOSED CULVERT CULVERT (Profile View)



LAYOUT

TOTAL NET LENGTH OF CENTERLINE = 10.343 MI.

Coordinates on this plan are referenced to the Wisconsin State Plane Coordinate System, North Zone.

ORIGINAL PLANS PREPARED BY NORTHERN WISCONSIN-BASED ENGINEERS, INC.

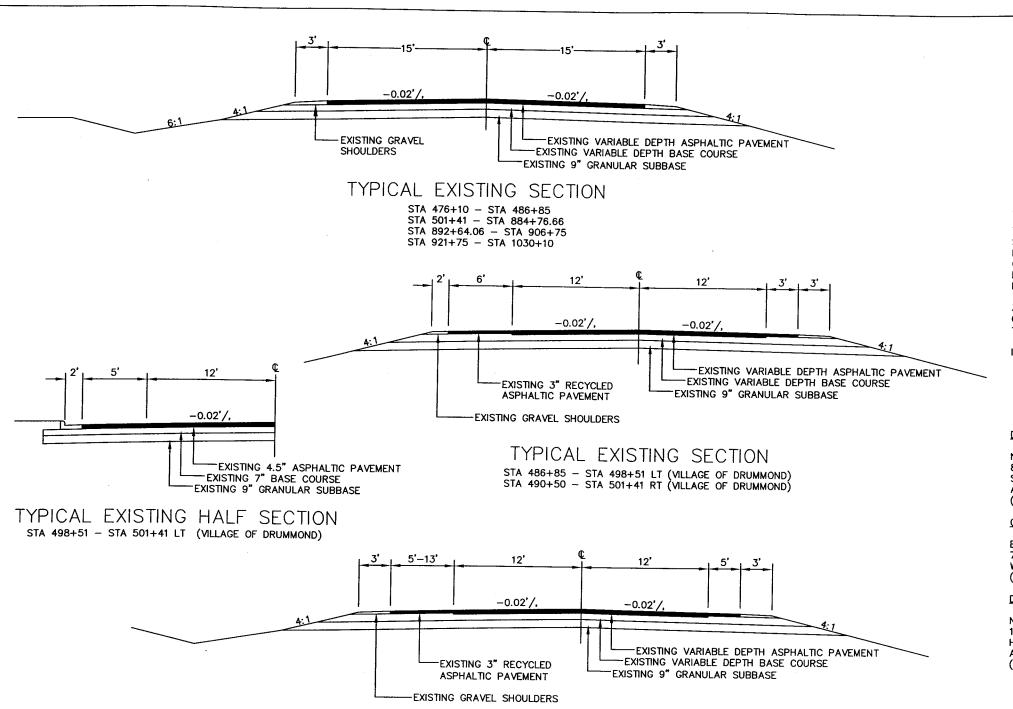


Heather Harrington

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY NWBE HEATHER HARRINGTON Project Manager CHRISTINE KOSKI District Supervisor___RICK WASHKUHN C. BUJANOUSKI C.O. Examiner PPROVED FOR DISTRICT OFFICE

E



ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO AN ASSUMED VERTICAL DATUM.

RESTORE SIDEROAD INTERSECTIONS AND PRIVATE ENTRANCES TO EXISTING SURFACE CONDITIONS UNLESS SHOWN OTHERWISE.

WHEN THE QUANTITY OF CRUSHED AGGREGATE BASE COURSE OR ASPHALTIC CONCRETE PAVEMENT, TYPE E-1 IS MEASURED BY THE TON, THE THICKNESS OF THE LAYER SHOWN ON THE PLAN IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY. EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, AND MUI CHED.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGER'S HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES WHICH HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGER'S HOTLINE

3-1/2" ASPHALTIC CONCRETE PAVEMENT, TYPE E-1, SHALL BE PLACED IN 2 LAYERS OF SURFACE MATERIAL (12.5mm NOMINAL) AT 1-3/4" EACH. THE LOWER LAYER OF 1-3/4" ASPHALTIC CONCRETE PAVEMENT IS FOR CROWN CORRECTION AND RUTFILL.

IN BEAM GUARD AREAS, EXTEND PAVED SHOULDER OUT TO BEAM GUARD FACE.

DEPARTMENT OF NATURAL RESOURCES

NORTHERN REGION HEADQUARTERS 810 WEST MAPLE STREET SPOONER, WI 54801 ATTN: BILL CLARK (715) 635-4226

COUNTY SURVEYOR

BOB MICK 78215 STATE HWY 13 WASHBURN, WI 54891 (715) 373-5022

DESIGN CONTACT

NWBE, INC. 10597N KANSAS AVENUE HAYWARD, WI 54843 ATTN: HEATHER HARRINGTON (715) 634-4334

UTILITIES

DIGGER'S HOTLINE 1-800-242-8511 TDD 1-800-542-2289 CALL 3 WORK DAYS BEFORE YOU DIG

BAYFIELD ELECTRIC COOPERATIVE P.O. BOX 68 IRON RIVER, WI 54847 ATTN: PHILIP BEEKSMA (715) 372-4287

XCEL ENERGY - DISTRIBUTION 100 BARSTOW STREET P.O. BOX 8 EAU CLAIRE, WI 54702-0008 ATTN: BILL TEETERS (715) 836-1195

XCEL ENERGY - TRANSMISSION 100 BARSTOW STREET P.O. BOX 8 EAU CLAIRE, WI 54702-0008 ATTN: PAM TAYLOR (715) 839-1306

CHEQUAMEGON TELEPHONE CO-OP, INC. BOX 67 CABLE, WI 54821 ATTN: JOE LABEREE (715) 798-3303

CENTURYTEL OF NORTHWEST WISCONSIN P.O. BOX 78 425 ELLINGSON AVENUE HAWKINS, WI 54530 ATTN: PETE FILIPIAC (715) 585-6388

TYPICAL EXISTING SECTION STA 906+75 - STA 921+75 (VILLAGE OF GRAND VIEW)

8D1-13 CONCRETE CURB, CONCRETE CURB AND GUTTER AND PAVEMENT TIES 8E8-3 TYPICAL INSTALLATIONS OF EROSION BALES/TEMPORARY DITCH CHECKS

8E9-5 8F1-11

STANDARD DETAIL DRAWINGS

APRON ENDWALLS FOR CULVERT PIPE JOINT TIES FOR CONCRETE PIPE

8F4-5

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)
STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL 14B15-4a&b 14B18-4a

14B24-3a,b&c 15A3-1 MARKER POST, FLEXIBLE, FOR CULVERT END

15C4-1

TRAFFIC CONTROL, ADVANCE WARNING SIGNS, 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

15C8-9a 15C8-9b

TWO-WAY UNDIVIDED RUAD OPEN TO TRAFFIC
PAVEMENT MARKING (MAINLINE)
PAVEMENT MARKING (INTERSECTIONS)
TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS) 15C12-2

LANDMARK REFERENCE MONUMENTS AND COVERS 16A1-6

VAR EXISTING ASPHALTIC CURB -0.02'/VARIABLE -EXISTING VARIABLE DEPTH ASPHALTIC PAVEMENT -EXISTING VARIABLE DEPTH BASE COURSE EXISTING 9" GRANULAR SUBBASE

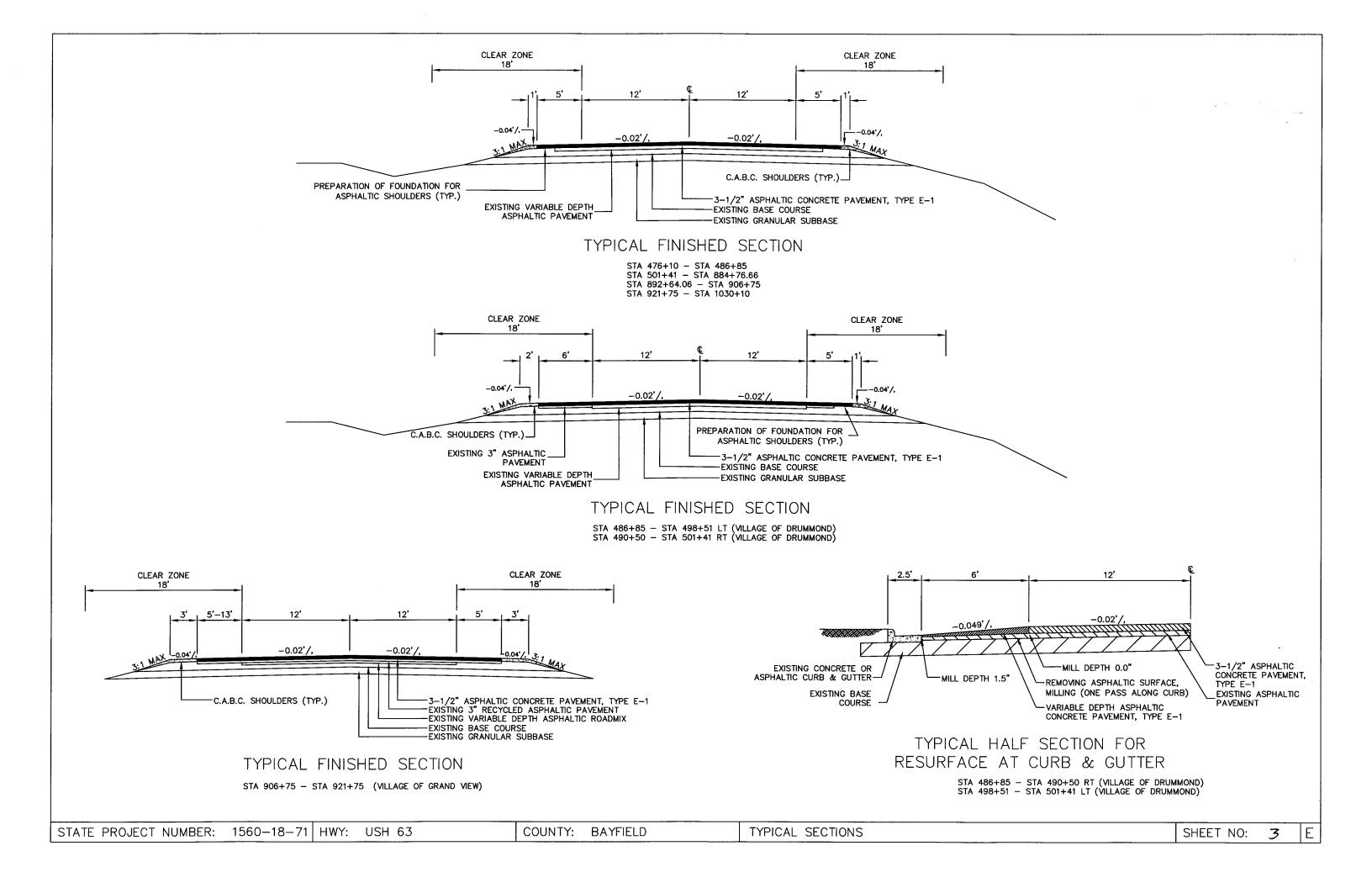
TYPICAL EXISTING HALF SECTION STA 486+85 - STA 490+50 RT (VILLAGE OF DRUMMOND)

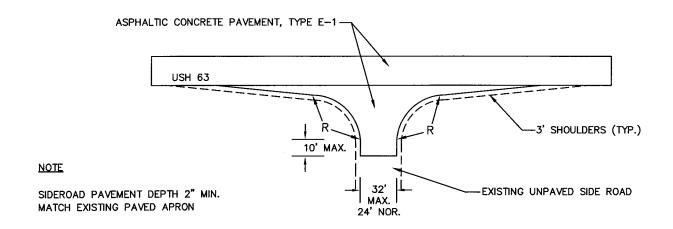
STATE PROJECT NUMBER: 1560-18-71 HWY: USH 63

COUNTY: BAYFIELD

TYPICAL SECTIONS

SHEET NO:

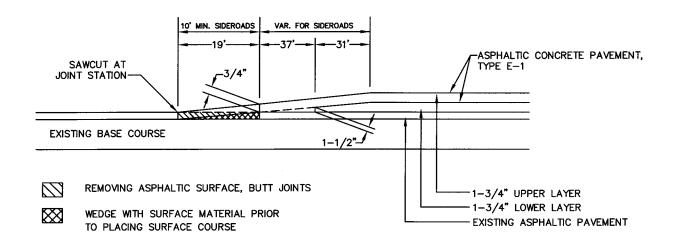




PAVING DETAIL

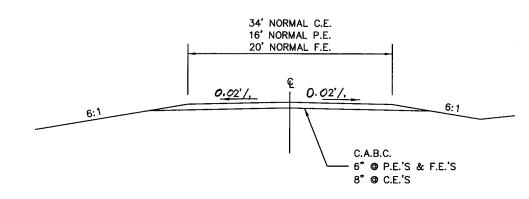
SIDEROADS WITH EXISTING UNPAVED SURFACE

BURGESON RD (LT) OLD HWY 63 (RT) N. SWEDEN DR (LT) S. SWEDEN DR (RT) TOWN RD (STA 910+27, RT)
MAGNOLIA DR (LT)
MATTS DR (LT)
N. SWEDEN DR (LT)
DYBEDAL RD (RT)

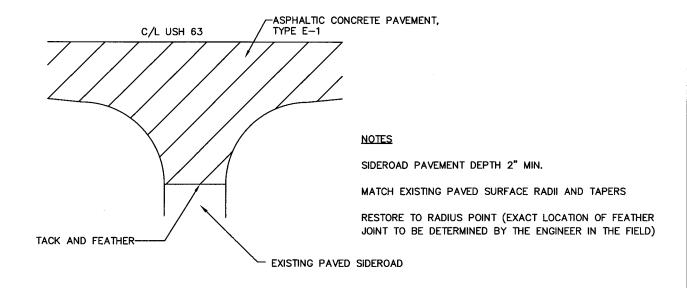


DETAIL OF BUTT JOINT

STA 476+10 STA 884+76.66 STA 892+64.06 STA 1030+10 CTH N CTH D



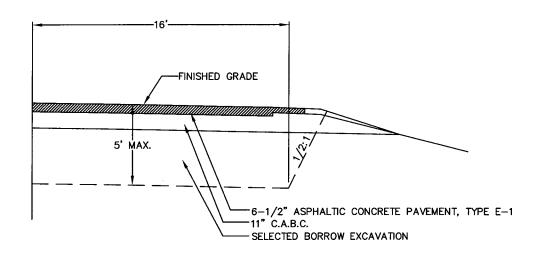
TYPICAL SECTION FOR CRUSHED AGGREGATE ENTRANCES



PAVING DETAIL SIDEROADS WITH EXISTING PAVED SURFACE

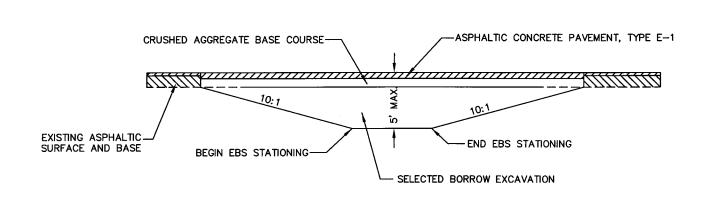
DELTA DRUMMOND RD (LT) DRUMMOND LAKE RD (LT)

DRUMMOND LAKE RD (L WISCONSIN AVE (LT) N. LAKE OWEN DR (RT) OLD 63 S. (LT) OLD 63 S. (RT)
BLAKE AVE (LT)
CLARK AVE (LT)
CUDWORTH AVE (LT)
RAYMOND AVE (LT)

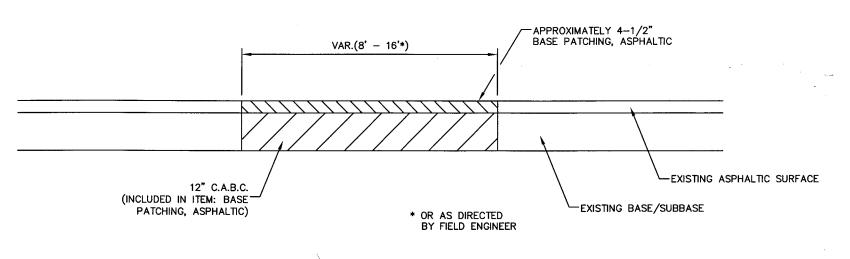


TYPICAL EBS HALF SECTION

STA 513+75 - 516+50 STA 865+50 - 866+50

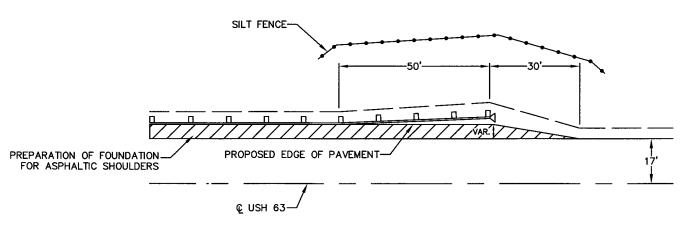


TRANSITIONS AT EBS LIMITS

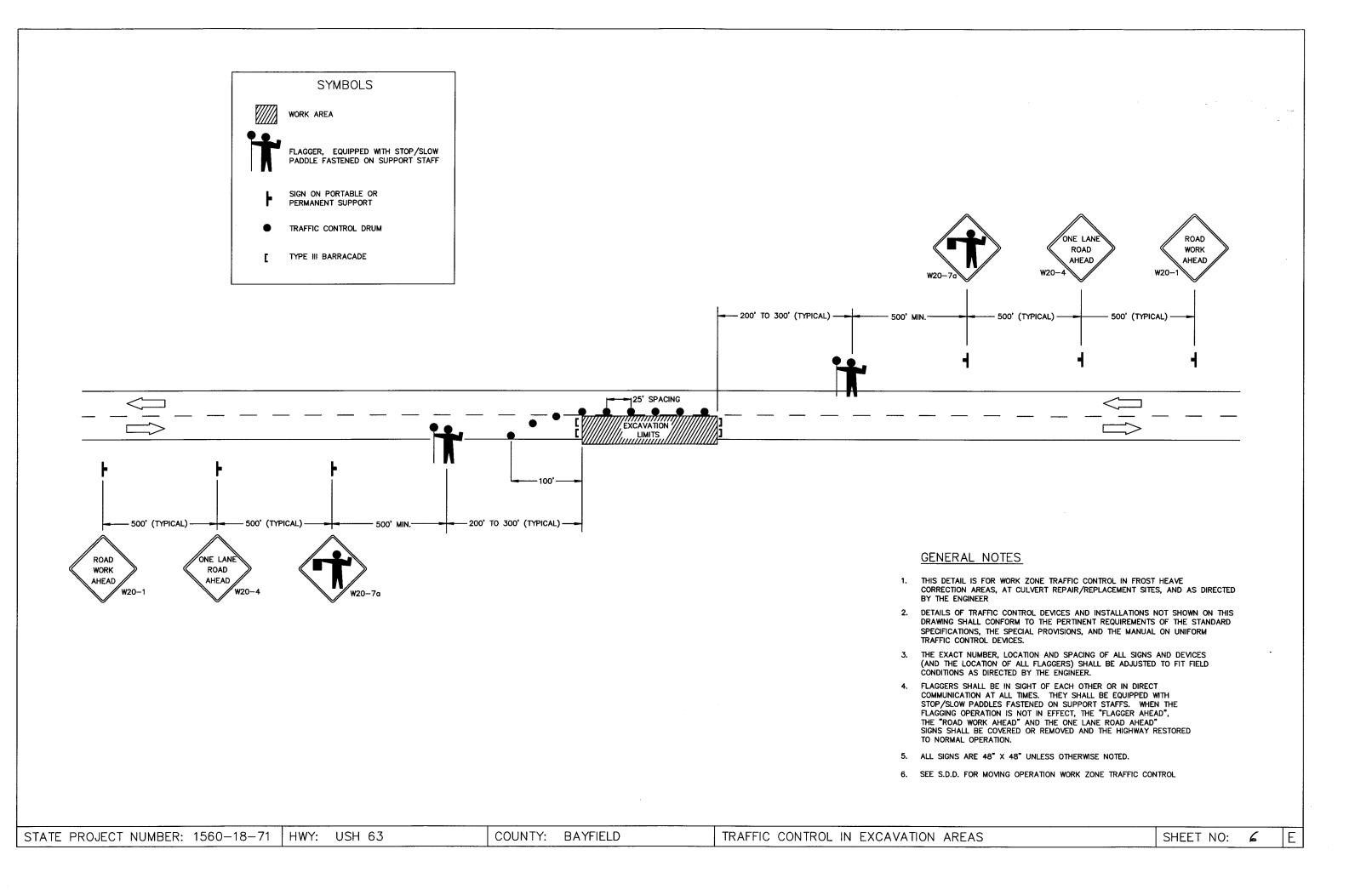


TYPICAL FOR BASE PATCHING

STA 518+67 STA 567+72 STA 536+80 STA 661+29 STA 540+02 STA 722+18 STA 550+20 STA 746+16 STA 1015+35



BEAM GUARD TERMINAL DETAIL

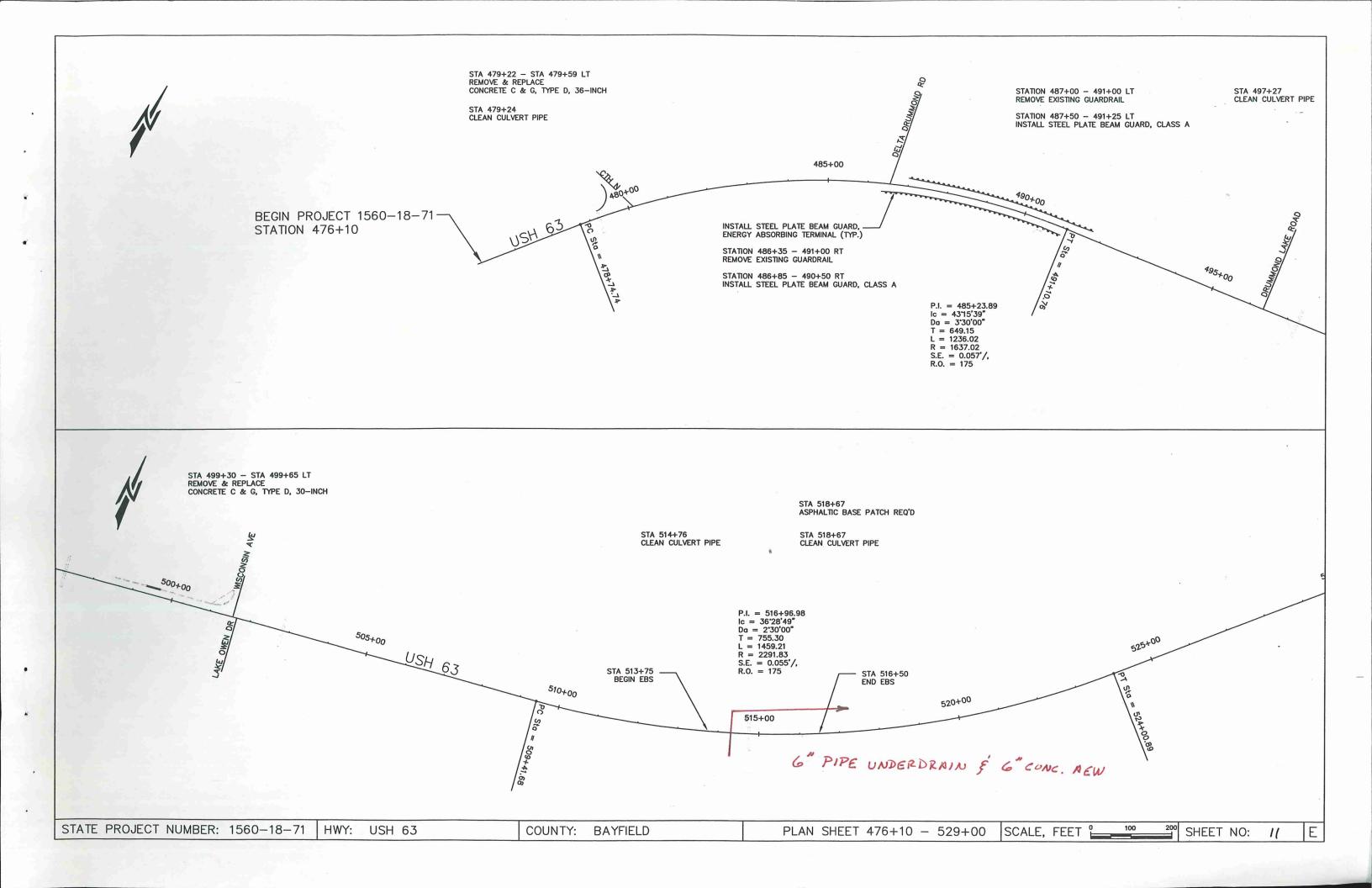


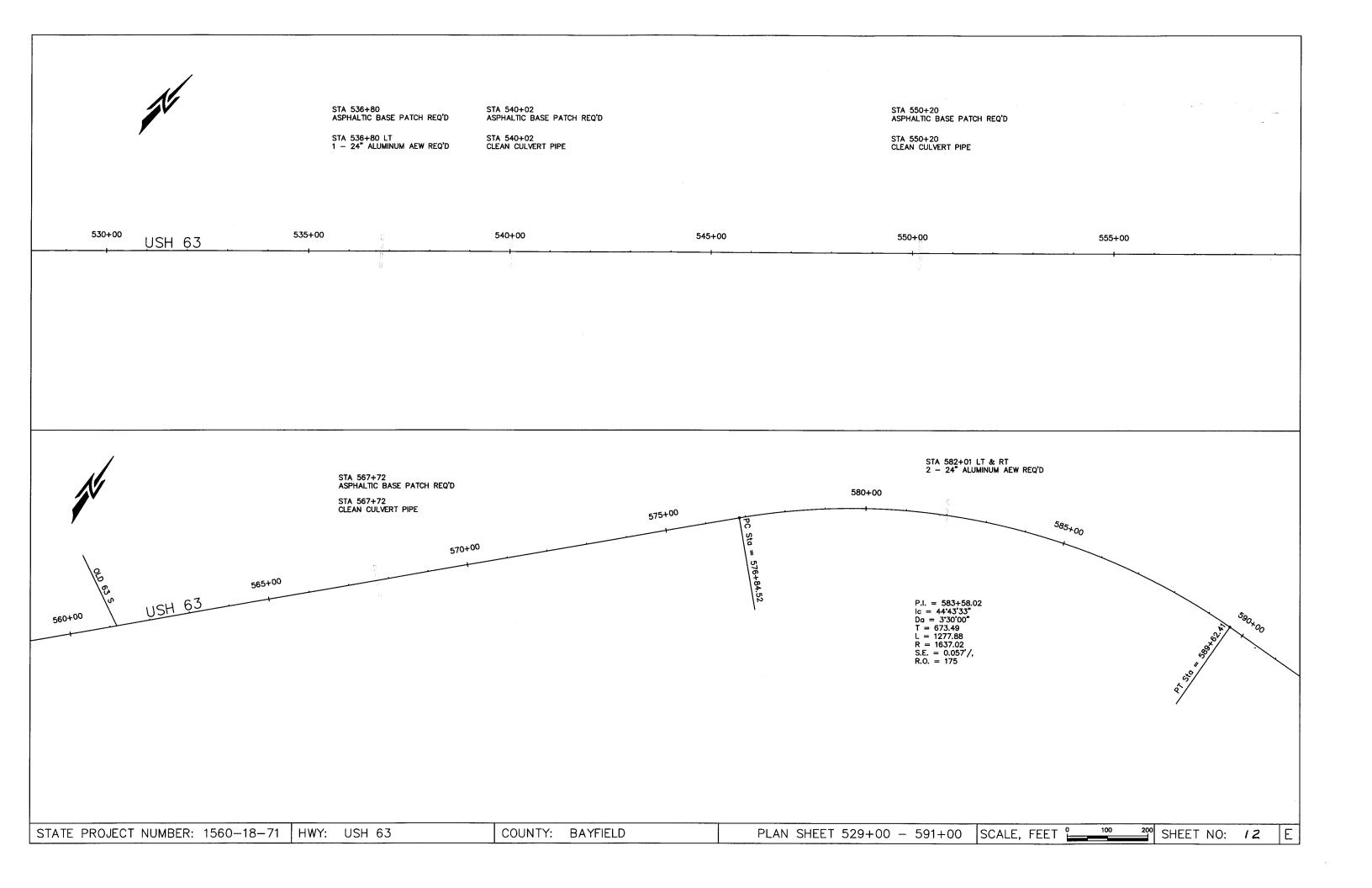
DATE 12	MAR03	1	ESTIMA	TE OF QUA	NTITIES	
LINE					1560-18-71	
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY	
0010	20335	REMOVING SMALL PIPE CULVERTS	EACH	2.000	2.000	
0020 0030	20405 20411	REMOVING CURB AND GUTTER REMOVING GUARDRAIL	L.F. L.F.	270.000 1,678.000	270.000	
0040	20411	REMOVING GOARDRAID REMOVING ASPHALTIC SURFACE, BUTT JOINTS	S.Y.	318.000	1,678.000 318.000	
0050	20420	REMOVING ASPHALTIC SURFACE, MILLING	S.Y.	436.000	436.000	
0060	20501	COMMON EXCAVATION	C.Y.	2,730.000	2,730.000	
0070	20811		C.Y.	2,198.000	2,198.000	
0800	21101	· · · · · · · · · · · · · · · · · · ·	LS	1.000	1.000	
0000	01101	PAVING	CITE N	1 004 000	1 004 000	
0090	21131	PREPARATION OF FOUNDATION FOR ASPHALTIC SHOULDERS	STA.	1,094.000	1,094.000	
0100	21301	FINISHING ROADWAY	LS	1.000	1.000	
0110	30404	CRUSHED AGGREGATE BASE COURSE	TON	11,190.000	11,190.000	
0120	30810	BASE PATCHING, ASPHALTIC	S.Y.	400.000	400.000	
0130		ASPHALTIC MATERIAL FOR TACK COAT	GAL.	9,854.000	9,854.000	
0140	40301	QMP, ASPHALTIC MIXTURE	TON	41,067.000	41,067.000	
0150	40501	ASPHALTIC MATERIAL FOR PLANT MIXES	TON	2,465.000	2,465.000	
0160	40722	ASPHALTIC CONCRETE PAVEMENT, TYPE E-1	TON	41,067.000	41,067.000	
0170	40728	·	DOL	26,280.000	26,280.000	
		PAVEMENT			20,200.000	
0180	40729	PROFILE INDEX INCENTIVE, ASPHALTIC	DOL	34,250.000	34,250.000	
		CONCRETE PAVEMENT				
0190	41105	ASPHALTIC SURFACE, DRIVEWAYS AND FIELD	TON	31.000	31.000	
0000	E0000	ENTRANCES	DA CVI			
0200	52098	CLEANING CULVERT PIPES	EACH	16.000	16.000	
0210	52205	REINFORCED CONCRETE CULVERT PIPE, CLASS	L.F.	4.000	4.000	
0210	32203	III, 24-INCH	ш.г.	4.000	4.000	
0220	52209	REINFORCED CONCRETE CULVERT PIPE, CLASS	L.F.	4.000	4.000	
		III, 36-INCH				
0230	52264	REINFORCED CONCRETE APRON ENDWALLS FOR	EACH	1.000	1.000	
		CULVERT PIPE, 24-INCH				
0240	52267	REINFORCED CONCRETE APRON ENDWALLS FOR	EACH	1.000	1.000	
0250	F0554	CULVERT PIPE, 36-INCH	TIA CIT	4 000		
0250	52554	METAL APRON ENDWALLS FOR ALUMINUM CULVERT PIPE, 24-INCH	EACH	4.000	4.000	
		CONVERT FIFE, 24 INCII				
0260	52555	METAL APRON ENDWALLS FOR ALUMINUM	EACH	3.000	3.000	
		CULVERT PIPE, 30-INCH				
0270	60133	CONCRETE CURB AND GUTTER, 30-INCH, TYPE	L.F.	35.000	35.000	
		D	_			
0280	60170	CONCRETE CURB AND GUTTER, 36-INCH, TYPE	L.F.	235.000	235.000	
0200	61400	D STEEL DIATE DEAM CHADD CLASS A	T TO	1 252 200	1 252 222	
0290 0300		STEEL PLATE BEAM GUARD, CLASS A STEEL PLATE BEAM GUARD, ENERGY	L.F. EACH	1,353.000	1,353.000	
0300	01433	ABSORBING TERMINAL	EACH	8.000	8.000	
0310	61801	MAINTENANCE AND REPAIR OF HAUL ROADS	LS	1.000	1.000	
0320		MOBILIZATION	LS	1.000	1.000	
0330	62101	LANDMARK REFERENCE MONUMENTS	EACH	4.000	4.000	
0340	62811	•	EACH	20.000	20.000	
0350	62812	EROSION BALES, INSTALLED	EACH	20.000	20.000	
00.66	50015	CILE PENCE DELIVERE				
0360		SILT FENCE, DELIVERED	L.F.	800.000	800.000	
0370 0380	62816	SILT FENCE, INSTALLED SILT FENCE MAINTENANCE	L.F. L.F.	800.000	800.000	
0390		MOBILIZATIONS, EROSION CONTROL	EACH	800.000 1.000	800.000	
0400		MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	1.000	1.000	
				2.000	1.000	
0410	62824	EROSION MAT, DELIVERED, CLASS I, TYPE B	S.Y.	328.000	328.000	
0420	62825		S.Y.	328.000	328.000	
0430		FIELD OFFICE, TYPE B	LS	1.000	1.000	
0440		TRAFFIC CONTROL	LS	1.000	1.000	
0450	64602	PAVEMENT MARKING, 4-INCH, EPOXY	L.F.	110,800.000	110,800.000	

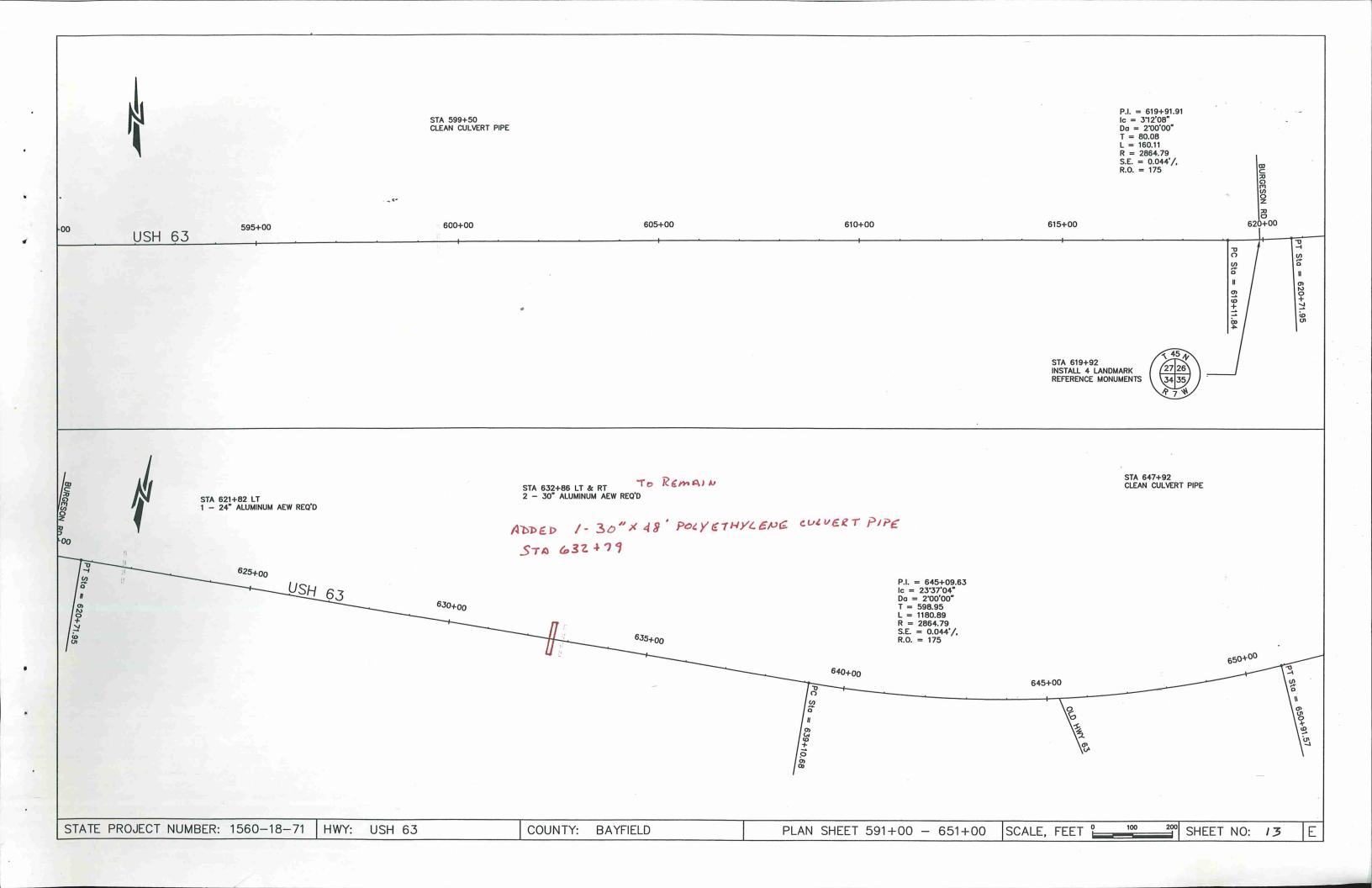
DATE 12	MAR03	E	STIMA	ATE OF QUAI	TITIES	
LINE					1560-18-71	
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY	
0460	64626	PAVEMENT MARKING, SAME DAY, 4-INCH, EPOXY	L.F.	77,817.000	77,817.000	
0470	64636	LOCATING NO-PASSING ZONES	MI.	10.300	10.300	
0480	64901	TEMPORARY PAVEMENT MARKING, 4-INCH	L.F.	73,257.000	73,257.000	
0490	66501	SAWING EXISTING PAVEMENT	L.F.	180.000	180.000	
0500	90005	MISC 90005A, RESETTING CULVERT ENDS	EACH	1.000	1.000	
0510	90030	MISC 90030A, CULVERT PIPE LINER, 18-INCH	L.F.	116.000	116.000	·
0520	90329	GRADING, SHAPING AND FINISHING FOR BEAM GUARD TERMINALS AND ANCHORAGES	EACH	8.000	8.000	
0530	90365	QMP, BASE COURSES	TON	11,190.000	11,190.000	
0540	90375	QMP, NUCLEAR DENSITY FOR ASPHALTIC PAVEMENT	TON	41,067.000	41,067.000	
0550	90616	MARKER POSTS, FLEXIBLE, FOR CULVERT END	EACH	88.000	88.000	

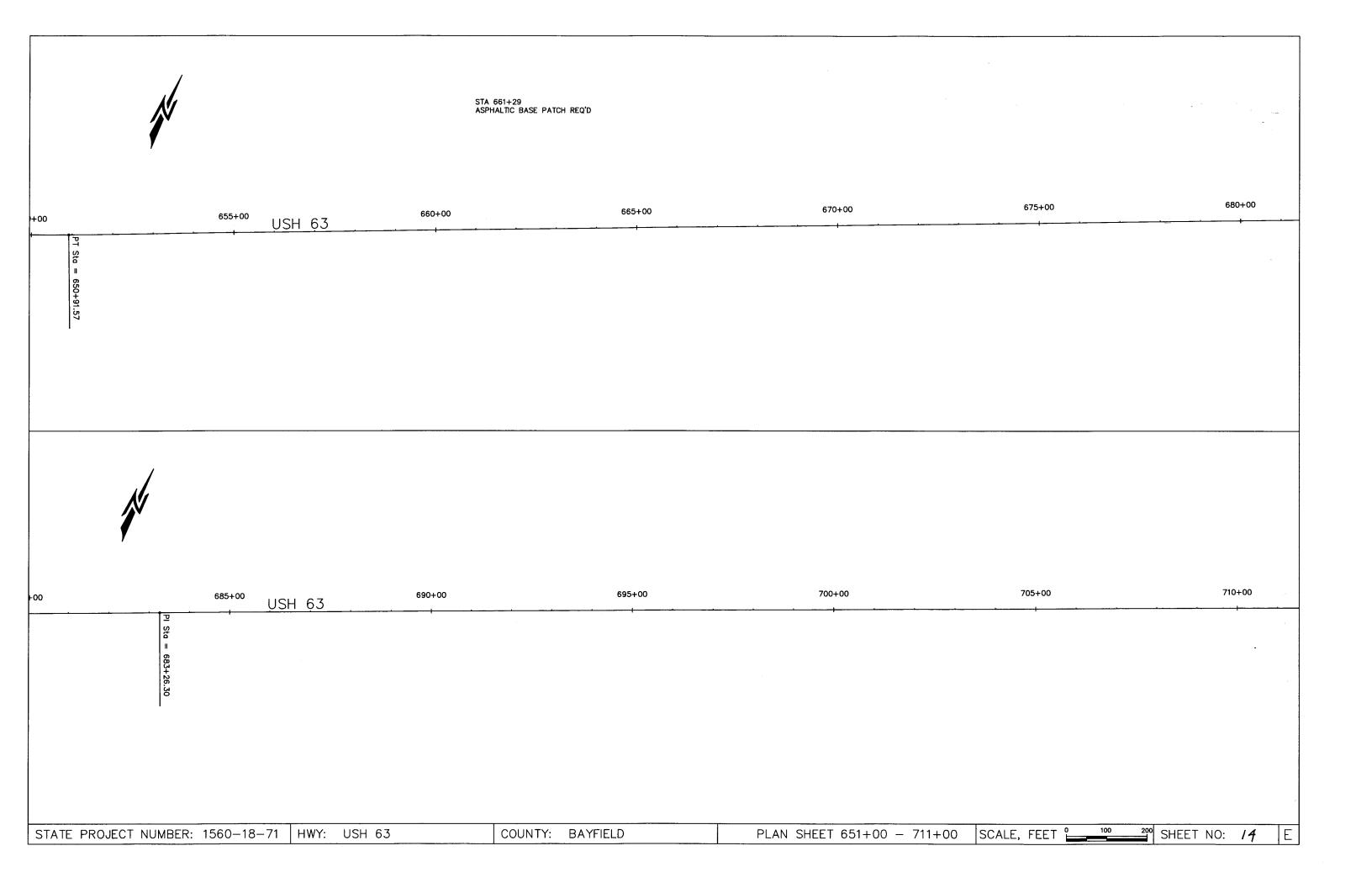
A ODULAL TUTTO						I					
ASPHALT ITEMS		40722	40501	41105	40204	20419 REMOVING ASPHALTI	IC SURFACE, BUTT JOINT	rs ·	20405 REMOVING CURB AND GUTT	FR	
<u>STATION - STATION</u> 476+10 - 884+77		ASPHALTIC CONCRETE PAVEMENT, TYPE E-1 TON 20978	ASPHALTIC MATERIAL FOR PLANT MIXES TON 1259	ASPHALTIC SURFACE, DRIVEWAYS AND F.E. TON	ASPHALTIC MATERIAL FOR TACK COAT <u>GAL.</u> 5449	STATION - STATION 476+10 - 476+29 CTH N 884+58 - 884+77 892+64 - 892+83	LOCATION MAINLINE LT MAINLINE MAINLINE	S.Y. 63 33 63 63	STATION - STATION 479+22 - 479+59 499+30 - 499+65 916+22 - 916+77 917+09 - 917+59	LOCATION CTH N, LT LT CTH D, RT CTH D, RT	<u>L.F.</u> 75 35 88 72
892+64 - 1030+10	MAINLINE	7056	424		1833	CTH D	RT	33	017 000 017 000	0111 <i>D</i> , 101	, _
476+10 - 884+77	SHOULDERS, LT & RT	8740	524		1815	1029+91 - 1030+10	MAINLINE	63	TOTAL:	-	270
892+64 - 1030+10	SHOULDERS, LT & RT	2940	176		610						
513+35 - 516+90	MAINLINE EBS	220	13			TOTAL:		318			
865+10 - 866+90	MAINLINE EBS	112	7						20501		
486+35 - 491+75	BEAM GUARD, LT & RT	60	4		8				COMMON EXCAVATION		
952+15 - 956+80	BEAM GUARD, LT & RT	56	3		7	20420	O OLIDEA OF ANILLING		07471041 07471041		
480+12	*CTH N, LT	98 38	6		15	REMOVING ASPHALTI	C SURFACE, MILLING		STATION - STATION	LOCATION	<u>C.Y.</u>
501+66	*LAKE OWEN DR, RT *CTH D, RT	38 73	2		11	STATION - STATION	LOCATION	c v	513+35 - 516+90	MAINLINE EBS	1890
917+02 486+50,	DELTA DRUMM RD, LT	73 18	1		3	486+85 - 490+50	<u>LOCATION</u> RT	<u>S.Y.</u> 243	865+10 - 866+90	MAINLINE EBS	840
496+36	DRUMM LAKE RD, LT	26	2		4	498+51 - 501+41	LT	193	TOTAL:	-	2730
501+56	WISCONSIN AVE, LT	40	2		5	400.01.001.41	21	130	TOTAL.		2130
561+17	OLD 63 SOUTH, LT	35	2		5	TOTAL:		436			
901+55	OLD 63 SOUTH, RT	54	3		8	2 11			20811		
906+51	BLAKE AVE, LT	11	1		2				SELECTED BORROW EXCAV	ATION	
910+27	CLARK AVE, LT	12	1		2	21131					
914+23	CUDWORTH AVE, LT	9	1		1	PREPARATION OF FO			STATION - STATION	LOCATION	<u>C.Y.</u>
917+37	RAYMOND AVE, LT	44	3		6	FOR ASPHALTIC SHOU	ULDER\$		513+35 - 516+90	MAINLINE EBS	1561
619+74	BURGESON RD, LT	13	1		2	OTATION STATIST			865+10 - 866+90	MAINLINE EBS	637
645+31	OLD HWY 63, RT	35	2		5	STATION - STATION	LOCATION	STA.	TOTAL		0400
728+23	N. & S. SWEDEN DR, LT & R	T 48	3		/	476+10 - 884+77 476+10 - 884+77	LT pt	409	TOTAL:		2198
910+27	TOWN RD, RT MAGNOLIA DR. LT	9 14	i 1		1	892+64 - 1030+10	RT LT	409			
924+27	MATTS DRIVE, LT	30	2		1	892+64 - 1030+10	RT	138 138	20404		
961+74 988+10	N. SWEDEN DR. LT	30 24	1		1 2	092+04 - 1030+10	ΝI	130	30404 CRUSHED AGGREGATE BASI	E COLIBSE	
988+10	DYBEDAL RD, RT	38	2		5 6	TOTAL:		1094	CUOSHED AGGREGATE BASI	E COURSE	
910+35 - 921+95	PARKING LANE, LT	199	12		26	1017.2.		1004	STATION - STATION	LOCATION	
915+60 - 916+20	PARKING LANE, RT	4	0		1				513+35 - 516+90	MAINLINE EBS	
914+77	C.E., RT	16	1		2	30810			865+10 - 866+90	MAINLINE EBS	
921+16	C.E., LT	17	1		2	BASE PATCHING, ASP	HALTIC		476+10 - 884+77	SHOULDERS, LT	
P.E.'s	LT & RT			31	3				476+10 - 884+77	SHOULDERS, RT	
				• • • • • • • • • • • • • • • • • • • •							
	_, _,,,					<u>STATION</u>	LOCATION	<u>S.Y.</u>	892+64 - 1030+10	SHOULDERS, LT	
TOTALS:		41067	2465	31	9854	518+67	MAINLINE	<u>S.Y.</u> 47 54	892+64 - 1030+10 892+64 - 1030+10		
		41067	2465		9854	518+67 536+80	MAINLINE MAINLINE	47 54	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED)	SHOULDERS, LT	
TOTALS:		41067	2465		9854	518+67 536+80 540+02	MAINLINE MAINLINE MAINLINE	47 54 50	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED) P.E.'s (UNPAVED)	SHOULDERS, LT	
TOTALS: *INCLUDES TURN LANES A	AND TAPERS			31		518+67 536+80 540+02 550+20	MAINLINE MAINLINE MAINLINE MAINLINE	47 54	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED)	SHOULDERS, LT	
TOTALS: *INCLUDES TURN LANES A	AND TAPERS			31		518+67 536+80 540+02 550+20 567+72 661+29	MAINLINE MAINLINE MAINLINE MAINLINE MAINLINE MAINLINE MAINLINE	47 54 50 33 33 50	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED) P.E.'s (UNPAVED)	SHOULDERS, LT	
TOTALS: *INCLUDES TURN LANES A SALVAGED TOPSOIL, FER (FOR INFORMATION ONLY	AND TAPERS RTILIZER, SEEDING, MULCHING, CC Y)	OMMON EXCAV		31 FOR BEAM GUA		518+67 536+80 540+02 550+20 567+72 661+29 722+18	MAINLINE MAINLINE MAINLINE MAINLINE MAINLINE MAINLINE MAINLINE MAINLINE	47 54 50 33 33 50	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED) P.E.'s (UNPAVED) BEAM GUARD TERMINALS	SHOULDERS, LT	
TOTALS: *INCLUDES TURN LANES A SALVAGED TOPSOIL, FER (FOR INFORMATION ONLY SALVAGED	AND TAPERS RTILIZER, SEEDING, MULCHING, CC Y) FERTILIZER SEEDING	OMMON EXCAV	ATION AND FILL	31 FOR BEAM GUA COMMON	RD TERMINALS	518+67 536+80 540+02 550+20 567+72 661+29 722+18 746+16	MAINLINE	47 54 50 33 33 50 50	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED) P.E.'s (UNPAVED) BEAM GUARD TERMINALS TOTAL:	SHOULDERS, LT	
TOTALS: *INCLUDES TURN LANES A SALVAGED TOPSOIL, FER (FOR INFORMATION ONLY SALVAGED TOPSOIL	AND TAPERS RTILIZER, SEEDING, MULCHING, CC Y) FERTILIZER SEEDING TYPE B MIX NO. 10	OMMON EXCAV SEEDING TEMP.	ATION AND FILL MULCHING	. FOR BEAM GUA COMMON EXC.	RD TERMINALS FILL(X 1.3)	518+67 536+80 540+02 550+20 567+72 661+29 722+18	MAINLINE MAINLINE MAINLINE MAINLINE MAINLINE MAINLINE MAINLINE MAINLINE	47 54 50 33 33 50	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED) P.E.'s (UNPAVED) BEAM GUARD TERMINALS TOTAL:	SHOULDERS, LT SHOULDERS, RT	
TOTALS: *INCLUDES TURN LANES A SALVAGED TOPSOIL, FER (FOR INFORMATION ONLY SALVAGED TOPSOIL LOCATION \$.Y.	AND TAPERS RTILIZER, SEEDING, MULCHING, CC Y) FERTILIZER SEEDING	OMMON EXCAV	ATION AND FILL	31 FOR BEAM GUA COMMON	RD TERMINALS	518+67 536+80 540+02 550+20 567+72 661+29 722+18 746+16 1015+35	MAINLINE	47 54 50 33 33 50 50 50 33	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED) P.E.'s (UNPAVED) BEAM GUARD TERMINALS TOTAL:	SHOULDERS, LT SHOULDERS, RT	
TOTALS: *INCLUDES TURN LANES A SALVAGED TOPSOIL, FER (FOR INFORMATION ONLY SALVAGED TOPSOIL LOCATION BEAM GUARD	AND TAPERS RTILIZER, SEEDING, MULCHING, CO Y) FERTILIZER SEEDING TYPE B MIX NO. 10 CWT LB.	SEEDING TEMP. LB.	ATION AND FILL MULCHING S.Y.	. FOR BEAM GUA COMMON EXC. C.Y.	RD TERMINALS FILL(X 1.3) C.Y.	518+67 536+80 540+02 550+20 567+72 661+29 722+18 746+16	MAINLINE	47 54 50 33 33 50 50	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED) P.E.'s (UNPAVED) BEAM GUARD TERMINALS TOTAL: 62811, 62812 EROSION BALES, DELIVERED	SHOULDERS, LT SHOULDERS, RT O AND INSTALLED DELIVERED INSTALLED	STALLED
TOTALS: *INCLUDES TURN LANES A SALVAGED TOPSOIL, FER (FOR INFORMATION ONLY SALVAGED TOPSOIL LOCATION BEAM GUARD	AND TAPERS RTILIZER, SEEDING, MULCHING, CC Y) FERTILIZER SEEDING TYPE B MIX NO. 10	OMMON EXCAV SEEDING TEMP.	ATION AND FILL MULCHING	. FOR BEAM GUA COMMON EXC.	RD TERMINALS FILL(X 1.3)	518+67 536+80 540+02 550+20 567+72 661+29 722+18 746+16 1015+35	MAINLINE	47 54 50 33 33 50 50 50 33	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED) P.E.'s (UNPAVED) BEAM GUARD TERMINALS TOTAL:	SHOULDERS, LT SHOULDERS, RT	
TOTALS: *INCLUDES TURN LANES A SALVAGED TOPSOIL, FER (FOR INFORMATION ONLY SALVAGED TOPSOIL LOCATION BEAM GUARD	AND TAPERS RTILIZER, SEEDING, MULCHING, CO Y) FERTILIZER SEEDING TYPE B MIX NO. 10 CWT LB.	SEEDING TEMP. LB.	ATION AND FILL MULCHING S.Y.	. FOR BEAM GUA COMMON EXC. C.Y.	RD TERMINALS FILL(X 1.3) C.Y.	518+67 536+80 540+02 550+20 567+72 661+29 722+18 746+16 1015+35	MAINLINE	47 54 50 33 33 50 50 50 33	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED) P.E.'s (UNPAVED) BEAM GUARD TERMINALS TOTAL: 62811, 62812 EROSION BALES, DELIVERED	SHOULDERS, LT SHOULDERS, RT O AND INSTALLED DELIVERED INS EACH	STALLED EACH
TOTALS: *INCLUDES TURN LANES A SALVAGED TOPSOIL, FER (FOR INFORMATION ONLY SALVAGED TOPSOIL LOCATION BEAM GUARD TERMINALS 451	AND TAPERS RTILIZER, SEEDING, MULCHING, CO Y) FERTILIZER SEEDING TYPE B MIX NO. 10 CWT LB.	SEEDING TEMP. LB.	ATION AND FILL MULCHING S.Y.	. FOR BEAM GUA COMMON EXC. C.Y. 60	RD TERMINALS FILL(X 1.3) C.Y. 338	518+67 536+80 540+02 550+20 567+72 661+29 722+18 746+16 1015+35	MAINLINE	47 54 50 33 33 50 50 50 33	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED) P.E.'s (UNPAVED) BEAM GUARD TERMINALS TOTAL: 62811, 62812 EROSION BALES, DELIVERED UNDISTRIBUTED	SHOULDERS, LT SHOULDERS, RT O AND INSTALLED DELIVERED INS EACH	STALLED EACH
TOTALS: *INCLUDES TURN LANES A SALVAGED TOPSOIL, FER (FOR INFORMATION ONLY SALVAGED TOPSOIL LOCATION BEAM GUARD TERMINALS 451 62815, 62816, 62817	AND TAPERS RTILIZER, SEEDING, MULCHING, CO Y) FERTILIZER SEEDING TYPE B MIX NO. 10 CWT LB.	SEEDING TEMP. LB.	ATION AND FILL MULCHING S.Y.	31 FOR BEAM GUA COMMON EXC. C.Y. 60 62824, 628	RD TERMINALS FILL(X 1.3) C.Y. 338	518+67 536+80 540+02 550+20 567+72 661+29 722+18 746+16 1015+35	MAINLINE	47 54 50 33 33 50 50 50 33	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED) P.E.'s (UNPAVED) BEAM GUARD TERMINALS TOTAL: 62811, 62812 EROSION BALES, DELIVERED	SHOULDERS, LT SHOULDERS, RT O AND INSTALLED DELIVERED INS EACH 20	STALLED EACH
TOTALS: *INCLUDES TURN LANES A SALVAGED TOPSOIL, FER (FOR INFORMATION ONLY SALVAGED TOPSOIL LOCATION BEAM GUARD TERMINALS 451 62815, 62816, 62817	AND TAPERS RTILIZER, SEEDING, MULCHING, CO Y) FERTILIZER SEEDING TYPE B MIX NO. 10 CWT LB. 0.4 8.5	SEEDING TEMP. LB.	ATION AND FILL MULCHING S.Y. 615	31 FOR BEAM GUA COMMON EXC. C.Y. 60 62824, 628	RD TERMINALS FILL(X 1.3) C.Y. 338	518+67 536+80 540+02 550+20 567+72 661+29 722+18 746+16 1015+35 TOTAL:	MAINLINE	47 54 50 33 33 50 50 50 33	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED) P.E.'s (UNPAVED) BEAM GUARD TERMINALS TOTAL: 62811, 62812 EROSION BALES, DELIVERED UNDISTRIBUTED	SHOULDERS, LT SHOULDERS, RT O AND INSTALLED DELIVERED INS EACH 20 ISHING FOR BEAM	STALLED EACH
TOTALS: *INCLUDES TURN LANES A SALVAGED TOPSOIL, FER (FOR INFORMATION ONLY SALVAGED TOPSOIL LOCATION BEAM GUARD TERMINALS 451 62815, 62816, 62817 SILT FENCE, DELIVERED,	AND TAPERS RTILIZER, SEEDING, MULCHING, CO Y) FERTILIZER SEEDING TYPE B MIX NO. 10 CWT LB. 0.4 8.5 INSTALLED & MAINTENANCE DELIVERED INSTA	SEEDING TEMP. LB. 17	ATION AND FILL MULCHING S.Y. 615	31 FOR BEAM GUA COMMON EXC. C.Y. 60 62824, 628 EROSION	RD TERMINALS FILL(X 1.3) C.Y. 338 325 MAT, CLASS I, TYPE	518+67 536+80 540+02 550+20 567+72 661+29 722+18 746+16 1015+35 TOTAL:	MAINLINE	47 54 50 33 33 50 50 50 33	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED) P.E.'s (UNPAVED) BEAM GUARD TERMINALS TOTAL: 62811, 62812 EROSION BALES, DELIVERED UNDISTRIBUTED 90329 GRADING, SHAPING AND FINI GUARD TERMINALS AND AND	SHOULDERS, LT SHOULDERS, RT O AND INSTALLED DELIVERED INS EACH 20 ISHING FOR BEAM CHORAGES	STALLED EACH
TOTALS: *INCLUDES TURN LANES A SALVAGED TOPSOIL, FER (FOR INFORMATION ONLY SALVAGED TOPSOIL LOCATION BEAM GUARD TERMINALS 451 62815, 62816, 62817 SILT FENCE, DELIVERED,	AND TAPERS RTILIZER, SEEDING, MULCHING, CO Y) FERTILIZER SEEDING TYPE B MIX NO. 10 CWT LB. 0.4 8.5 INSTALLED & MAINTENANCE DELIVERED INSTA	SEEDING TEMP. LB. 17 ALLED M.	ATION AND FILL MULCHING S.Y. 615 AINT. L.F.	31 FOR BEAM GUA COMMON EXC. C.Y. 60 62824, 628 EROSION STATION	RD TERMINALS FILL(X 1.3) C.Y. 338 325 MAT, CLASS I, TYPE	518+67 536+80 540+02 550+20 567+72 661+29 722+18 746+16 1015+35 TOTAL: E.B., DELIVERED & INSTALLED DELIVERED IN LOCATION S.Y.	MAINLINE	47 54 50 33 33 50 50 50 33	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED) P.E.'s (UNPAVED) BEAM GUARD TERMINALS TOTAL: 62811, 62812 EROSION BALES, DELIVERED UNDISTRIBUTED 90329 GRADING, SHAPING AND FINI GUARD TERMINALS AND AND STATION - STATION LOCAL	SHOULDERS, LT SHOULDERS, RT O AND INSTALLED DELIVERED INS EACH 20 ISHING FOR BEAM	STALLED EACH
TOTALS: *INCLUDES TURN LANES A SALVAGED TOPSOIL, FER (FOR INFORMATION ONLY SALVAGED TOPSOIL LOCATION S.Y. BEAM GUARD TERMINALS 451 62815, 62816, 62817 SILT FENCE, DELIVERED, STATION - STATION 485+95 - 486+95 R	AND TAPERS RTILIZER, SEEDING, MULCHING, CO Y) FERTILIZER SEEDING TYPE B MIX NO. 10 CWT LB. 0.4 8.5 INSTALLED & MAINTENANCE DELIVERED INSTA	SEEDING TEMP. LB. 17 ALLED M L.F.	ATION AND FILL MULCHING S.Y. 615 AINT. L.F. 100	31 FOR BEAM GUA COMMON EXC. C.Y. 60 62824, 628 EROSION STATION- 486+35 - 4	RD TERMINALS FILL(X 1.3) C.Y. 338 325 MAT, CLASS I, TYPE STATION 86+85	518+67 536+80 540+02 550+20 567+72 661+29 722+18 746+16 1015+35 TOTAL: E B, DELIVERED & INSTALLED DELIVERED IN S.Y. RT 41	MAINLINE	47 54 50 33 33 50 50 50 33	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED) P.E.'s (UNPAVED) BEAM GUARD TERMINALS TOTAL: 62811, 62812 EROSION BALES, DELIVERED UNDISTRIBUTED 90329 GRADING, SHAPING AND FINI GUARD TERMINALS AND AND STATION - STATION 486+05 - 486+85 RT	SHOULDERS, LT SHOULDERS, RT O AND INSTALLED DELIVERED INS EACH 20 ISHING FOR BEAM CHORAGES	STALLED EACH
TOTALS: *INCLUDES TURN LANES A SALVAGED TOPSOIL, FER (FOR INFORMATION ONLY SALVAGED TOPSOIL LOCATION S.Y. BEAM GUARD TERMINALS 451 62815, 62816, 62817 SILT FENCE, DELIVERED, STATION - STATION 485+95 - 486+95 R 486+60 - 487+60	AND TAPERS RTILIZER, SEEDING, MULCHING, CO Y) FERTILIZER SEEDING TYPE B MIX NO. 10 CWT LB. 0.4 8.5 INSTALLED & MAINTENANCE DELIVERED INSTALLED COCATION L.F. RT 100 .T 100	SEEDING TEMP. LB. 17 ALLED M L.F. 100 100	ATION AND FILL MULCHING S.Y. 615 AINT. L.F. 100 100	31 FOR BEAM GUA COMMON EXC. C.Y. 60 62824, 628 EROSION STATION- 486+35 - 4 487+00 - 4	RD TERMINALS FILL(X 1.3) C.Y. 338 325 MAT, CLASS I, TYPE STATION 86+85 87+50	518+67 536+80 540+02 550+20 567+72 661+29 722+18 746+16 1015+35 TOTAL: E.B., DELIVERED & INSTALLED DELIVERED IN S.Y. RT 41 LT 41	MAINLINE	47 54 50 33 33 50 50 50 33	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED) P.E.'S (UNPAVED) BEAM GUARD TERMINALS TOTAL: 62811, 62812 EROSION BALES, DELIVERED UNDISTRIBUTED 90329 GRADING, SHAPING AND FINI GUARD TERMINALS AND AND STATION - STATION 486+05 - 486+85 RT 486+85 - 487+50 LINEAU LOCATION BY THE STATION AND COCATION LOCATION LO	SHOULDERS, LT SHOULDERS, RT O AND INSTALLED DELIVERED INS EACH 20 ISHING FOR BEAM CHORAGES	STALLED EACH
TOTALS: *INCLUDES TURN LANES A SALVAGED TOPSOIL, FER (FOR INFORMATION ONLY SALVAGED TOPSOIL LOCATION S.Y. BEAM GUARD TERMINALS 451 62815, 62816, 62817 SILT FENCE, DELIVERED, STATION - STATION 485+95 - 486+95 R3486+60 - 487+60 L17490+40 - 491+40 R540 R5400 - 491+40 R5400 - 487+60 R5400 - 491+40 R5400 -	AND TAPERS RTILIZER, SEEDING, MULCHING, CO Y) FERTILIZER SEEDING TYPE B MIX NO. 10 CWT LB. 0.4 8.5 INSTALLED & MAINTENANCE DELIVERED INSTALLED COCATION L.F. RT 100 LT 100 RT 100	SEEDING TEMP. LB. 17 ALLED M L.F. 100 100	ATION AND FILL MULCHING S.Y. 615 AINT. L.F. 100 100 100	31 FOR BEAM GUA COMMON EXC. C.Y. 60 62824, 628 EROSION STATION- 486+35 - 4 487+00 - 4 490+50 - 4	FILL(X 1.3) C.Y. 338 325 MAT, CLASS I, TYPE STATION 86+85 87+50 91+00	518+67 536+80 540+02 550+20 567+72 661+29 722+18 746+16 1015+35 TOTAL: E.B., DELIVERED & INSTALLED DELIVERED IN S.Y. RT 41 LT 41 RT 41	MAINLINE S.Y. 41 41	47 54 50 33 33 50 50 50 33	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED) P.E.'S (UNPAVED) BEAM GUARD TERMINALS TOTAL: 62811, 62812 EROSION BALES, DELIVERED LOCATION UNDISTRIBUTED 90329 GRADING, SHAPING AND FINI GUARD TERMINALS AND AND STATION - STATION 486+05 - 486+85 RT 486+85 - 487+50 LT 490+60 - 491+15 RT	SHOULDERS, LT SHOULDERS, RT O AND INSTALLED DELIVERED INS EACH 20 ISHING FOR BEAM CHORAGES	STALLED EACH
TOTALS: *INCLUDES TURN LANES A SALVAGED TOPSOIL, FER (FOR INFORMATION ONLY SALVAGED TOPSOIL LOCATION S.Y. BEAM GUARD TERMINALS 451 62815, 62816, 62817 SILT FENCE, DELIVERED, STATION - STATION 485+95 - 486+95 R3486+60 - 487+60 L17490+40 - 491+40 R3491+15 - 492+15 L175 **INCLUDES TURN LANES A **INCLUDES TURN LANES	AND TAPERS RTILIZER, SEEDING, MULCHING, CO Y) FERTILIZER SEEDING TYPE B MIX NO. 10 CWT LB. 0.4 8.5 INSTALLED & MAINTENANCE DELIVERED INSTALLED COCATION L.F. RT 100 .T 100 .T 100 .T 100 .T 100	SEEDING TEMP. LB. 17 ALLED M L.F. 100 100 100 100	ATION AND FILL MULCHING S.Y. 615 AINT. L.F. 100 100 100 100	31 FOR BEAM GUA COMMON EXC. C.Y. 60 62824, 628 EROSION STATION - 486+35 - 4 487+00 - 4 490+50 - 4 491+25 - 4	FILL(X 1.3) C.Y. 338 325 MAT, CLASS I, TYPE STATION 86+85 87+50 91+00 91+75	518+67 536+80 540+02 550+20 567+72 661+29 722+18 746+16 1015+35 TOTAL: B, DELIVERED & INSTALLED DELIVERED IN S.Y. RT 41 LT 41 RT 41 RT 41 LT 41	MAINLINE 41 41 41	47 54 50 33 33 50 50 50 33	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED) P.E.'S (UNPAVED) BEAM GUARD TERMINALS TOTAL: 62811, 62812 EROSION BALES, DELIVERED LOCATION UNDISTRIBUTED 90329 GRADING, SHAPING AND FINI GUARD TERMINALS AND AND STATION - STATION 486+05 - 486+85 RT 486+85 - 487+50 LT 490+60 - 491+15 RT 491+25 - 492+05 LT	SHOULDERS, LT SHOULDERS, RT O AND INSTALLED DELIVERED INS EACH 20 ISHING FOR BEAM CHORAGES	STALLED EACH
TOTALS: *INCLUDES TURN LANES A SALVAGED TOPSOIL, FER (FOR INFORMATION ONLY SALVAGED TOPSOIL LOCATION BEAM GUARD TERMINALS 451 62815, 62816, 62817 SILT FENCE, DELIVERED, STATION - STATION 485+95 - 486+95 R3486+60 - 487+60 L17490+40 - 491+40 R3491+15 - 492+15 L175951+75 - 952+75 L175	AND TAPERS RTILIZER, SEEDING, MULCHING, CO Y) FERTILIZER SEEDING TYPE B MIX NO. 10 CWT LB. 0.4 8.5 INSTALLED & MAINTENANCE DELIVERED INSTALLED. RT 100 RT 100 RT 100 LT 100	SEEDING TEMP. LB. 17 ALLED M L.F. 100 100	ATION AND FILL MULCHING S.Y. 615 AINT. L.F. 100 100 100 100 100 100	31 FOR BEAM GUA COMMON EXC. C.Y. 60 62824, 628 EROSION STATION- 486+35 - 4 487+00 - 4 490+50 - 4	FILL(X 1.3) C.Y. 338 325 MAT, CLASS I, TYPE STATION 86+85 87+50 91+00 91+75 52+65	518+67 536+80 540+02 550+20 567+72 661+29 722+18 746+16 1015+35 TOTAL: B, DELIVERED & INSTALLED DELIVERED IN LOCATION S.Y. RT 41 LT 41 RT 41 RT 41 LT 41	MAINLINE 41 41 41 41	47 54 50 33 33 50 50 50 33	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED) P.E.'S (UNPAVED) BEAM GUARD TERMINALS TOTAL: 62811, 62812 EROSION BALES, DELIVERED LOCATION UNDISTRIBUTED 90329 GRADING, SHAPING AND FINI GUARD TERMINALS AND AND STATION - STATION 486+05 - 486+85 RT 486+85 - 487+50 LT 490+60 - 491+15 RT 491+25 - 492+05 LT 951+85 - 952+65 LT	SHOULDERS, LT SHOULDERS, RT O AND INSTALLED DELIVERED INS EACH 20 ISHING FOR BEAM CHORAGES	STALLED EACH
TOTALS: *INCLUDES TURN LANES A SALVAGED TOPSOIL, FER (FOR INFORMATION ONLY SALVAGED TOPSOIL LOCATION S.Y. BEAM GUARD TERMINALS 451 62815, 62816, 62817 SILT FENCE, DELIVERED, STATION - STATION 485+95 - 486+95 846+60 - 487+60 490+40 - 491+40 8491+15 - 492+15 951+75 - 952+75 952+15 - 953+15 R	AND TAPERS RTILIZER, SEEDING, MULCHING, CO Y) FERTILIZER SEEDING TYPE B MIX NO. 10 CWT LB. 0.4 8.5 INSTALLED & MAINTENANCE DELIVERED INSTA COCATION L.F. RT 100 LT 10	SEEDING TEMP. LB. 17 ALLED M L.F. 100 100 100 100 100	ATION AND FILL MULCHING S.Y. 615 AINT. L.F. 100 100 100 100	31 FOR BEAM GUA COMMON EXC. C.Y. 60 62824, 628 EROSION STATION - 486+35 - 4 487+00 - 4 490+50 - 4 491+25 - 4 952+15 - 9	FILL(X 1.3) C.Y. 338 225 MAT, CLASS I, TYPE STATION 86+85 87+50 91+00 91+75 52+65 53+05	518+67 536+80 540+02 550+20 567+72 661+29 722+18 746+16 1015+35 TOTAL: B, DELIVERED & INSTALLED DELIVERED IN LOCATION S.Y. RT 41 LT 41 RT 41 LT 41 LT 41 LT 41	MAINLINE 41 41 41 41	47 54 50 33 33 50 50 50 33	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED) P.E.'s (UNPAVED) BEAM GUARD TERMINALS TOTAL: 62811, 62812 EROSION BALES, DELIVERED LOCATION UNDISTRIBUTED 90329 GRADING, SHAPING AND FINI GUARD TERMINALS AND AND STATION - STATION 486+05 - 486+85 RT 486+85 - 487+50 LT 490+60 - 491+15 RT 491+25 - 492+05 LT 951+85 - 952+65 LT 952+25 - 953+05 RT	SHOULDERS, LT SHOULDERS, RT O AND INSTALLED DELIVERED INS EACH 20 ISHING FOR BEAM CHORAGES	STALLED EACH
TOTALS: *INCLUDES TURN LANES A SALVAGED TOPSOIL, FER (FOR INFORMATION ONLY SALVAGED TOPSOIL LOCATION S.Y. BEAM GUARD TERMINALS 451 62815, 62816, 62817 SILT FENCE, DELIVERED, STATION - STATION 485+95 - 486+95 486+60 - 487+60 490+40 - 491+40 491+15 - 492+15 951+75 - 952+75 952+15 - 953+15 955+43 - 956+43	AND TAPERS RTILIZER, SEEDING, MULCHING, CO Y) FERTILIZER SEEDING TYPE B MIX NO. 10 CWT LB. 0.4 8.5 0.4 8.5 INSTALLED & MAINTENANCE DELIVERED INSTA CCATION L.F. RT 100 LT 100 RT 100 LT 100 RT 100	SEEDING TEMP. LB. 17 ALLED M L.F. 100 100 100 100 100 100	ATION AND FILL MULCHING S.Y. 615 AINT. L.F. 100 100 100 100 100 100 100 100	31 COMMON EXC. C.Y. 60 62824, 628 EROSION STATION - 486+35 - 4 487+00 - 4 490+50 - 4 491+25 - 4 952+15 - 9	FILL(X 1.3) C.Y. 338 225 MAT, CLASS I, TYPE STATION 86+85 87+50 91+00 91+75 52+65 53+05 56+03	518+67 536+80 540+02 550+20 567+72 661+29 722+18 746+16 1015+35 TOTAL: B, DELIVERED & INSTALLED DELIVERED IN LOCATION S.Y. RT 41 LT 41 RT 41 LT 41	MAINLINE 41 41 41 41 41	47 54 50 33 33 50 50 50 33	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED) P.E.'s (UNPAVED) BEAM GUARD TERMINALS TOTAL: 62811, 62812 EROSION BALES, DELIVERED LOCATION UNDISTRIBUTED 90329 GRADING, SHAPING AND FINI GUARD TERMINALS AND AND STATION - STATION 486+05 - 486+85 RT 486+85 - 487+50 LT 490+60 - 491+15 RT 491+25 - 492+05 LT 952+25 - 953+05 RT	SHOULDERS, LT SHOULDERS, RT O AND INSTALLED DELIVERED INS EACH 20 ISHING FOR BEAM CHORAGES	STALLED EACH
TOTALS: *INCLUDES TURN LANES A SALVAGED TOPSOIL, FER (FOR INFORMATION ONLY SALVAGED TOPSOIL LOCATION S.Y. BEAM GUARD TERMINALS 451 62815, 62816, 62817 SILT FENCE, DELIVERED, STATION - STATION 485+95 - 486+95 R3486+60 - 487+60 L37490+40 - 491+15 - 492+15 951+75 - 952+75 952+15 - 953+15 955+43 - 956+43 956+20 - 957+20 R340 SALVAGED TOPSOIL LOCATION S.Y. BEAM GUARD 151 451 451 451 451 451 451 451 451 451	AND TAPERS RTILIZER, SEEDING, MULCHING, CO Y) FERTILIZER SEEDING TYPE B MIX NO. 10 CWT LB. 0.4 8.5 0.4 8.5 INSTALLED & MAINTENANCE DELIVERED INSTA COCATION L.F. RT 100	SEEDING TEMP. LB. 17 ALLED M L.F. 100 100 100 100 100 100 100 100 100	ATION AND FILL MULCHING S.Y. 615 AINT. L.F. 100 100 100 100 100 100 100 100 100	31 COMMON EXC. C.Y. 60 62824, 628 EROSION STATION- 486+35 - 4 487+00 - 4 490+50 - 4 491+25 - 4 952+15 - 9 955+53 - 9 956+30 - 9	FILL(X 1.3) C.Y. 338 225 MAT, CLASS I, TYPE STATION 86+85 87+50 91+00 91+75 52+65 53+05 56+03	518+67 536+80 540+02 550+20 567+72 661+29 722+18 746+16 1015+35 TOTAL: DELIVERED IN LOCATION S.Y. RT 41 LT 41 RT 41 LT 41	MAINLINE 41 41 41 41 41 41 41 41	47 54 50 33 33 50 50 50 33	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED) P.E.'s (UNPAVED) BEAM GUARD TERMINALS TOTAL: 62811, 62812 EROSION BALES, DELIVERED LOCATION UNDISTRIBUTED 90329 GRADING, SHAPING AND FINI GUARD TERMINALS AND AND STATION - STATION 486+05 - 486+85 486+85 - 487+50 LT 490+60 - 491+15 RT 491+25 - 492+05 LT 951+85 - 952+65 PT 952+25 - 953+05 RT 955+53 - 956+33 LT 956+30 - 957+10 RT	SHOULDERS, LT SHOULDERS, RT O AND INSTALLED DELIVERED INS EACH 20 ISHING FOR BEAM CHORAGES	STALLED EACH
TOTALS: *INCLUDES TURN LANES A SALVAGED TOPSOIL, FER (FOR INFORMATION ONLY SALVAGED TOPSOIL LOCATION S.Y. BEAM GUARD TERMINALS 451 62815, 62816, 62817 SILT FENCE, DELIVERED, STATION - STATION 485+95 - 486+95 486+60 - 487+60 490+40 - 491+40 491+15 - 492+15 951+75 - 952+75 952+15 - 953+15 955+43 - 956+43	AND TAPERS RTILIZER, SEEDING, MULCHING, CO Y) FERTILIZER SEEDING TYPE B MIX NO. 10 CWT LB. 0.4 8.5 0.4 8.5 INSTALLED & MAINTENANCE DELIVERED INSTA COCATION L.F. RT 100	SEEDING TEMP. LB. 17 ALLED M L.F. 100 100 100 100 100 100 100 100 100	ATION AND FILL MULCHING S.Y. 615 AINT. L.F. 100 100 100 100 100 100 100 100 100	31 COMMON EXC. C.Y. 60 62824, 628 EROSION STATION - 486+35 - 4 487+00 - 4 490+50 - 4 491+25 - 4 952+15 - 9 952+55 - 9	FILL(X 1.3) C.Y. 338 225 MAT, CLASS I, TYPE STATION 86+85 87+50 91+00 91+75 52+65 53+05 56+03	518+67 536+80 540+02 550+20 567+72 661+29 722+18 746+16 1015+35 TOTAL: DELIVERED IN LOCATION S.Y. RT 41 LT 41 RT 41 LT 41	MAINLINE 41 41 41 41 41 41	47 54 50 33 33 50 50 50 33	892+64 - 1030+10 892+64 - 1030+10 SIDE ROADS (UNPAVED) P.E.'s (UNPAVED) BEAM GUARD TERMINALS TOTAL: 62811, 62812 EROSION BALES, DELIVERED LOCATION UNDISTRIBUTED 90329 GRADING, SHAPING AND FINI GUARD TERMINALS AND AND STATION - STATION 486+05 - 486+85 486+85 - 487+50 LT 490+60 - 491+15 RT 491+25 - 492+05 LT 951+85 - 952+65 LT 952+25 - 953+05 RT 955+53 - 956+33 LT	SHOULDERS, LT SHOULDERS, RT O AND INSTALLED DELIVERED INS EACH 20 ISHING FOR BEAM CHORAGES	STALLED EACH

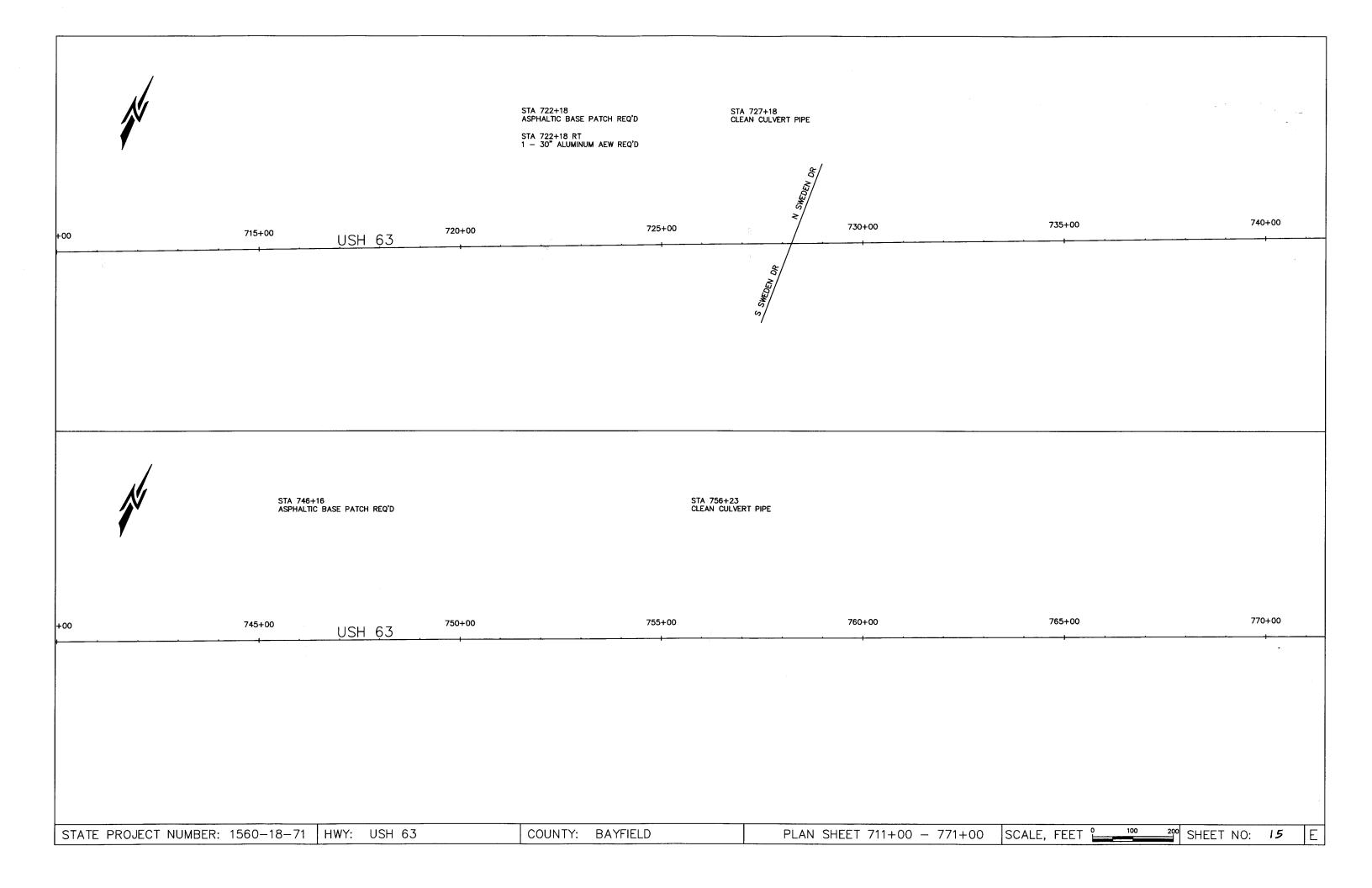
	PIPES	20335 REMOVING SMALL PIPE CULVERTS	52098 CLEANING CULVERT PIPES		ALUM. CP, 30-INCH	52205 RCCP, CLASS III, 24-INCH	52264 RC AEWS FOR CP, 24-INCH	52209 RCCP, CLASS III, 36-INCH	52267 RC AEWS FOR CP, 36-INCH	90005A RESETTING CULVERT ENDS	90030A CULVERT PIPE LINER, 18-INCH		90616 MARKER PO END	STS, FLEXIBLE, FO	R CULVE
STATION	LOCATION	<u>EACH</u>	EACH	<u>EACH</u>	<u>EACH</u>	<u>L.F.</u>	<u>EACH</u>	<u>L.F.</u>	<u>EACH</u>	EACH	<u>L.F.</u>	<u>REMARKS</u>	STATION	LOCATION	EAC
179+24	MAINLINE		1										479+24	LT & RT	
197+27	MAINLINE		1										490+98	LT & RT	-
14+76	MAINLINE		1										495+26	LT & RT	
18+67	MAINLINE		1										497+27	LT & RT	
36+80	LT			7									502+83	LT & RT	
540+02	MAINLINE		1										514+76	LT & RT	
550+20	MAINLINE		1										518+67	LT & RT	
67+72	MAINLINE		1										536+80	LT & RT	
582+01	LT & RT			2									540+02	LT & RT	
99+50	MAINLINE		1										550+20	LT & RT	
621+82	LT			1									567+72	LT & RT	
632+86	LT & RT				2								582+01	LT & RT	
647+92	MAINLINE		1										599+50	LT & RT	
722+18	RT				1				***				621+82	LT & RT	
727+18	MAINLINE		1			-							632+86	LT & RT	
756+23	MAINLINE		1										647+92	LT & RT	
787+42	MAINLINE		1										661+29	LT & RT	
94+15	MAINLINE		1										678+28	LT & RT	
10+15	MAINLINE & LT		1							1		24" CACP	694+23	LT & RT	
21+09	MAINLINE		1										711+15	LT & RT	
54+93	MAINLINE		1			-							722+18	LT & RT	
71+79	MAINLINE										116		727+18	LT & RT	
85+10	RT	1						4 *	1 *				746+16	LT & RT	
94+10	RT	1				4 *	1 *						756+23	LT & RT	
		•											777+72	LT & RT	
OTAL:		2	16	4	3	4	1	4	1	 1	116		787+42	LT & RT	
		_								•	-		794+15	LT & RT	
IOINT TIES	S ARE REQUIRED: 2 A	AT EACH SECTION JO	INT. JOINT TIE	S ARE CONSIDERED	NCIDENTAL 1	TO THE PAY ITE	M.						810+15	LT & RT	
	•												821+09	LT & RT	
													824+30	LT & RT	
0133				61408				6460)2				849+45	LT & RT	
	CURB AND GUTTER	, 30-INCH, TYPE D		STEEL PLATE B	AM GUARD, (CLASS A		PAV	EMENT MARKIN	G, 4-INCH, EPOX	Y		854+93	LT & RT	
					,						•		863+23	LT & RT	
TATION - S	STATION	LOCATION I	<u>F.</u> 35	STATION - STAT	<u>ON</u>	LOCATION	<u>L.F.</u>	STA	TION - STATION	Τ'	<u>/PE L.</u>	<u>.F.</u>	865+97	LT & RT	
99+30 - 499		LT	35	487+50 - 491+25		LT	375	476+	10 - 1030+10	WHITE EDGEL	INE 110800		871+79	LT & RT	
_				486+85 - 490+50		RT	365	1					904+00	LT & RT	
				952+65 - 955+53		LT	288						928+15	LT & RT	
0170				953+05 - 956+30		RT	325						954+73	LT & RT	
	CURB AND GUTTER	, 36-INCH, TYPE D						6462					985+10	LT & RT	
-		•		TOTAL:			1353	PAV	EMENT MARKING	G, SAME DAY. 4	INCH, EPOXY		994+10	LT & RT	
STATION - S	STATION	LOCATION L	<u>F.</u>										1008+90	LT & RT	
179+22 - 479		CTH N, LT	75					STA	TION - STATION	TY	<u>/PE L.</u>	.F.	1015+35	LT & RT	
)16+22 - 4 79		CTH D, RT	88	61435					-10 - 1030+10	YELLOW	CL 778	. <u></u> 17	1013133	LT & RT	
17+09 - 917			72	STEEL PLATE BI	AM GUARD			1		,	110	••	1027+60	LT & RT	
	,	J		ENERGY ABSOR		NAL.							1027100	LI XIVI	
			235										TOTAL:		
OTAL ·		•		STATION		LOCATION	<u>EACH</u>	6490)1				I I I I I I		,
OTAL:				486+35		RT	1		, PORARY PAVEM	MENT MARKING	4-INCH				
OTAL:				487+00		LT	i	'-'''	. 5.5411 / 1/4						
<u> </u>						RT	1	STA	TION - STATION	T \	<u> (PE L.</u>	F			
0411	GUARDRAU		ļ			131	•		10 - 1030+10		<u> </u>	<u></u>			
0411	GUARDRAIL			491+00			1	71761		V □ 1 1 7 31 A	(1) 7/3/31				-
0411 REMOVING		LOCATION	_	491+00 491+75		LT	1	4/6+	10 - 1030+10	YELLOW	CL 732	57			-
0411 REMOVING (STATION	LOCATION L	<u>F.</u>	491+00 491+75 952+15		LT LT	1 1	4/6+	10 - 1030+10	YELLOW	CL 7328				
0411 REMOVING (STATION - S 87+00 - 491	STATION 1+00	LT 4	100	491+00 491+75 952+15 952+55		LT LT RT	1 1 1			YELLOW	CL /329				
0411 EMOVING (TATION - S 87+00 - 491 86+35 - 491	<u>STATION</u> 1+00 1+00	RT 4	400 465	491+00 491+75 952+15 952+55 956+03		LT LT RT LT	1 1 1	6650	1		CL 7329		<u> </u>		
0411 REMOVING (STATION - S 87+00 - 491 86+35 - 491 52+15 - 956	STATION 1+00 1+00 6+03	RT ALT ST	400 465 388	491+00 491+75 952+15 952+55		LT LT RT	1 1 1 1	6650			CL 7328	57	<u> </u>		· · ·
0411 EMOVING (TATION - S 87+00 - 491 86+35 - 491 52+15 - 956	STATION 1+00 1+00 6+03	RT ALT ST	400 465	491+00 491+75 952+15 952+55 956+03 956+80		LT LT RT LT	1 1 1 1	6650 SAW	11 /ING EXISTING P	PAVEMENT			1		· ·
0411 EMOVING 0 TATION - S 87+00 - 491 86+35 - 491 52+15 - 956 52+55 - 956	STATION 1+00 1+00 6+03	LT 4 RT 4 LT 5 RT 4	400 465 388 425	491+00 491+75 952+15 952+55 956+03		LT LT RT LT	1 1 1 1 1 ————————————————————————————	6650 SAW <u>STA</u> -	i1 /ING EXISTING P	PAVEMENT LOCATION			1		
0411 EMOVING (TATION - S 87+00 - 491 86+35 - 491 52+15 - 956 52+55 - 956	STATION 1+00 1+00 6+03	RT ALT ST	400 465 388 425	491+00 491+75 952+15 952+55 956+03 956+80		LT LT RT LT	1 1 1 1 1 1 1	6650 SAW <u>STA'</u> 476+	11 /ING EXISTING P TION 110	AVEMENT LOCATION MAINLINE	<u>L.</u>	<u>F.</u> 30	1		
0411 EMOVING 0 TATION - S 87+00 - 491 86+35 - 491 52+15 - 956 52+55 - 956	STATION 1+00 1+00 6+03	LT 4 RT 4 LT 5 RT 4	400 465 388 425	491+00 491+75 952+15 952+55 956+03 956+80		LT LT RT LT	1 1 1 1 1 1 1	6650 SAW <u>STA'</u> 476+ CTH	n1 /ING EXISTING P TION 10 N	PAVEMENT LOCATION MAINLINE LT	<u>L.</u>	<u>F.</u> 30 30			· .
0411 REMOVING (STATION - S 87+00 - 491 86+35 - 491 52+15 - 956 52+55 - 956	STATION 1+00 1+00 6+03	LT 4 RT 4 LT 5 RT 4	400 465 388 425	491+00 491+75 952+15 952+55 956+03 956+80 TOTAL:		LT LT RT LT	1 1 1 1 1 1 1 - 8	6650 SAW <u>STA'</u> 476+ CTH 884+	of VING EXISTING P TION 10 N	PAVEMENT LOCATION MAINLINE LT MAINLINE	<u>L.</u>	<u>F.</u> 30 30 30			· · ·
8TATION - S 87+00 - 491 86+35 - 491 52+15 - 956 52+55 - 956 OTAL:	STATION 1+00 1+00 6+03 6+80	LT 4 RT 4 LT 5 RT 4	400 465 388 425	491+00 491+75 952+15 952+55 956+03 956+80 TOTAL:		LT LT RT LT RT	1 1 1 1 1 1 1	6650 SAW <u>STA'</u> 476+ CTH 884+ 892+	of VING EXISTING P TION 10 N 77 64	PAVEMENT LOCATION MAINLINE LT MAINLINE MAINLINE MAINLINE	<u>L.</u>	<u>F.</u> 30 30 30 30 30			
0411 EMOVING (574710N - S 87+00 - 491 86+35 - 491 52+15 - 956 52+55 - 956 OTAL:	STATION 1+00 1+00 6+03	LT 4 RT 4 LT 5 RT 4	400 465 388 425	491+00 491+75 952+15 952+55 956+03 956+80 TOTAL:	ASSING ZONE	LT LT RT LT RT	1 1 1 1 1 ————————————————————————————	6650 SAW <u>STA'</u> 476+ CTH 884+ 892+ CTH	of VING EXISTING P TION 10 N 77 64 D	PAVEMENT LOCATION MAINLINE LT MAINLINE MAINLINE RT	<u>L.</u>	F. 30 30 30 30 30 30			
0411 REMOVING 0 87+00 - 491 86+35 - 491 52+15 - 956 52+55 - 956 OTAL: 2101 ANDMARK	STATION 1+00 1+00 6+03 6+80 K REFERENCE MONU	LT	400 465 388 425 578	491+00 491+75 952+15 952+55 956+03 956+80 TOTAL:		LT LT RT LT RT	1 1 1 1 1 ————————————————————————————	6650 SAW <u>STA'</u> 476+ CTH 884+ 892+	of VING EXISTING P TION 10 N 77 64 D	PAVEMENT LOCATION MAINLINE LT MAINLINE MAINLINE MAINLINE	<u>L.</u>	<u>F.</u> 30 30 30 30 30			
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0411 EMOVING (TATION - S 37+00 - 491 86+35 - 491 52+15 - 956 52+55 - 956 OTAL:	STATION 1+00 1+00 6+03 6+80	LT	400 465 388 425 578	491+00 491+75 952+15 952+55 956+03 956+80 TOTAL:	<u>ON</u>	LT LT RT LT RT	1 1 1 1 1 	6650 SAW <u>STA'</u> 476+ CTH 884+ 892+ CTH	11 /ING EXISTING P TION 10 N 77 64 D +10	PAVEMENT LOCATION MAINLINE LT MAINLINE MAINLINE RT	<u>L.</u>	F. 30 30 30 30 30 30 30			
0411 EMOVING 0 57+00 - 491 86+35 - 491 52+15 - 956 52+55 - 956 OTAL: 2101 ANDMARK	STATION 1+00 1+00 6+03 6+80 REFERENCE MONUI	LT	400 465 388 425 578	491+00 491+75 952+15 952+55 956+03 956+80 TOTAL: 64636 LOCATING NO-P	<u>ON</u>	LT LT RT LT RT	1 1 1 1 1 8 MILES 10.3	6650 SAW <u>STA'</u> 476+ CTH 884+ 892+ CTH 1030	11 /ING EXISTING P TION 10 N 77 64 D +10	PAVEMENT LOCATION MAINLINE LT MAINLINE MAINLINE RT	<u>L.</u>	F. 30 30 30 30 30 30 30			
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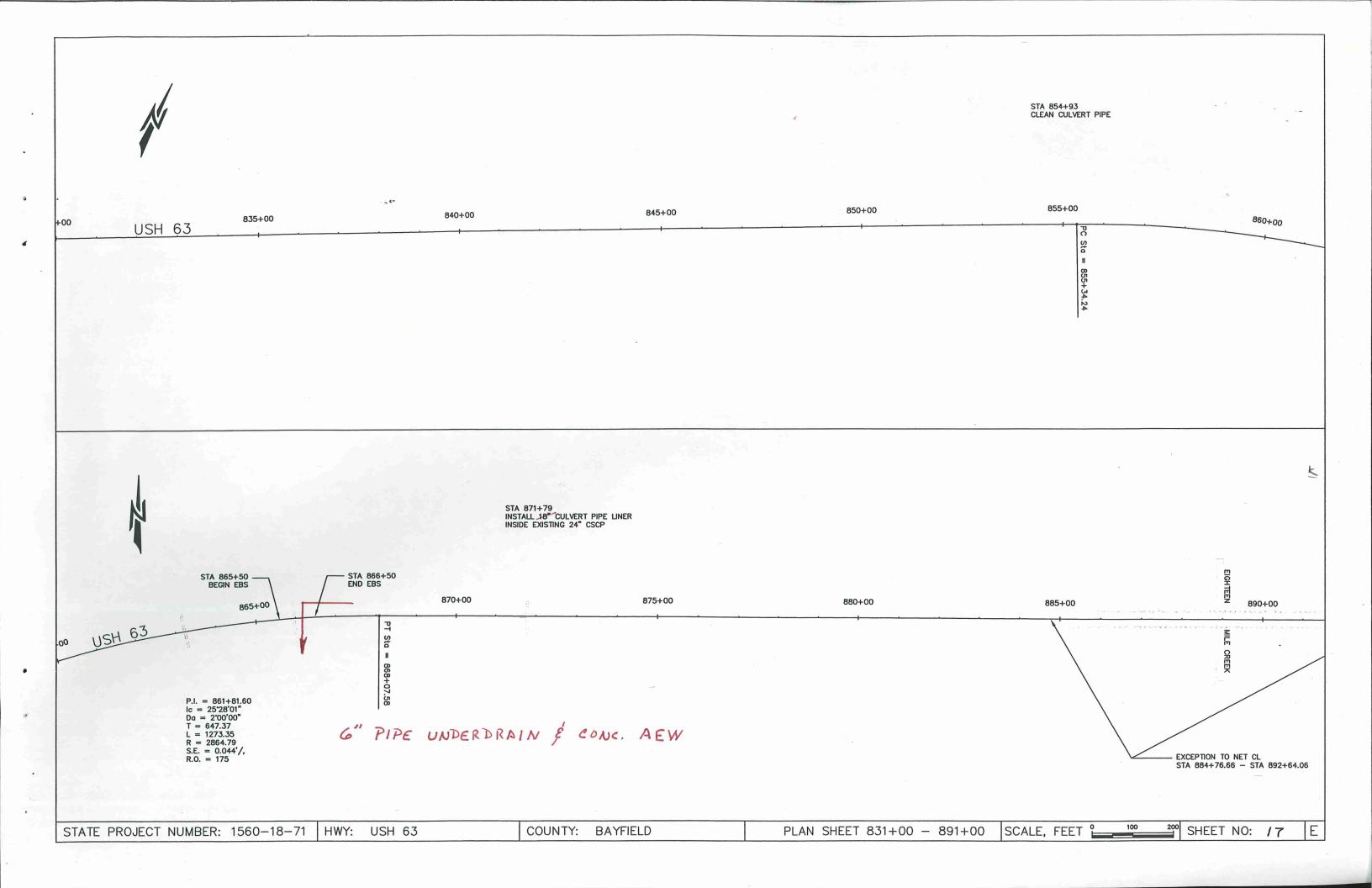


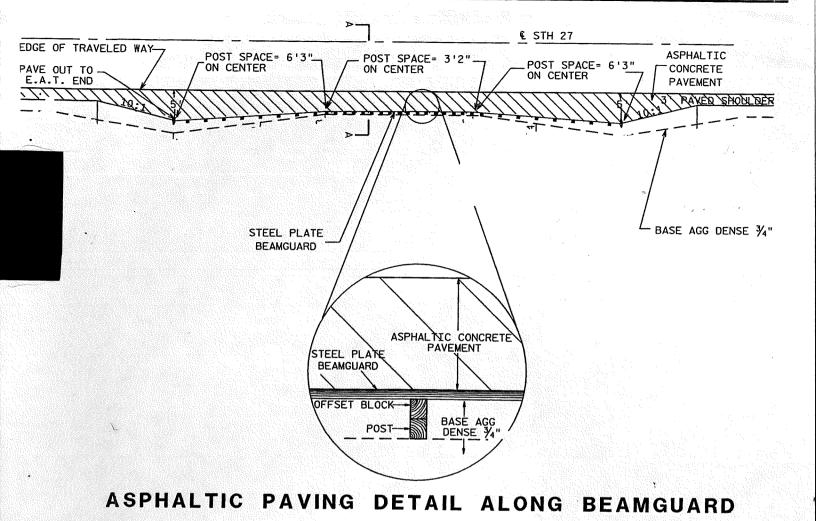


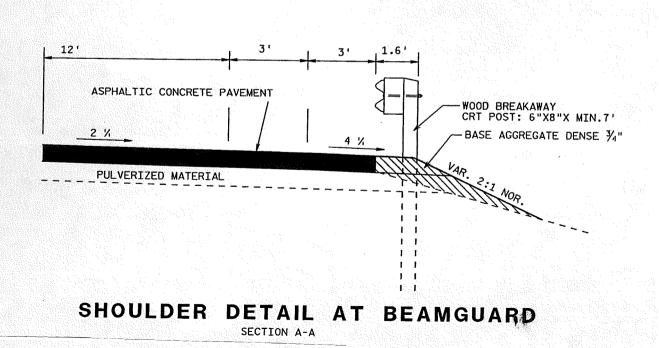


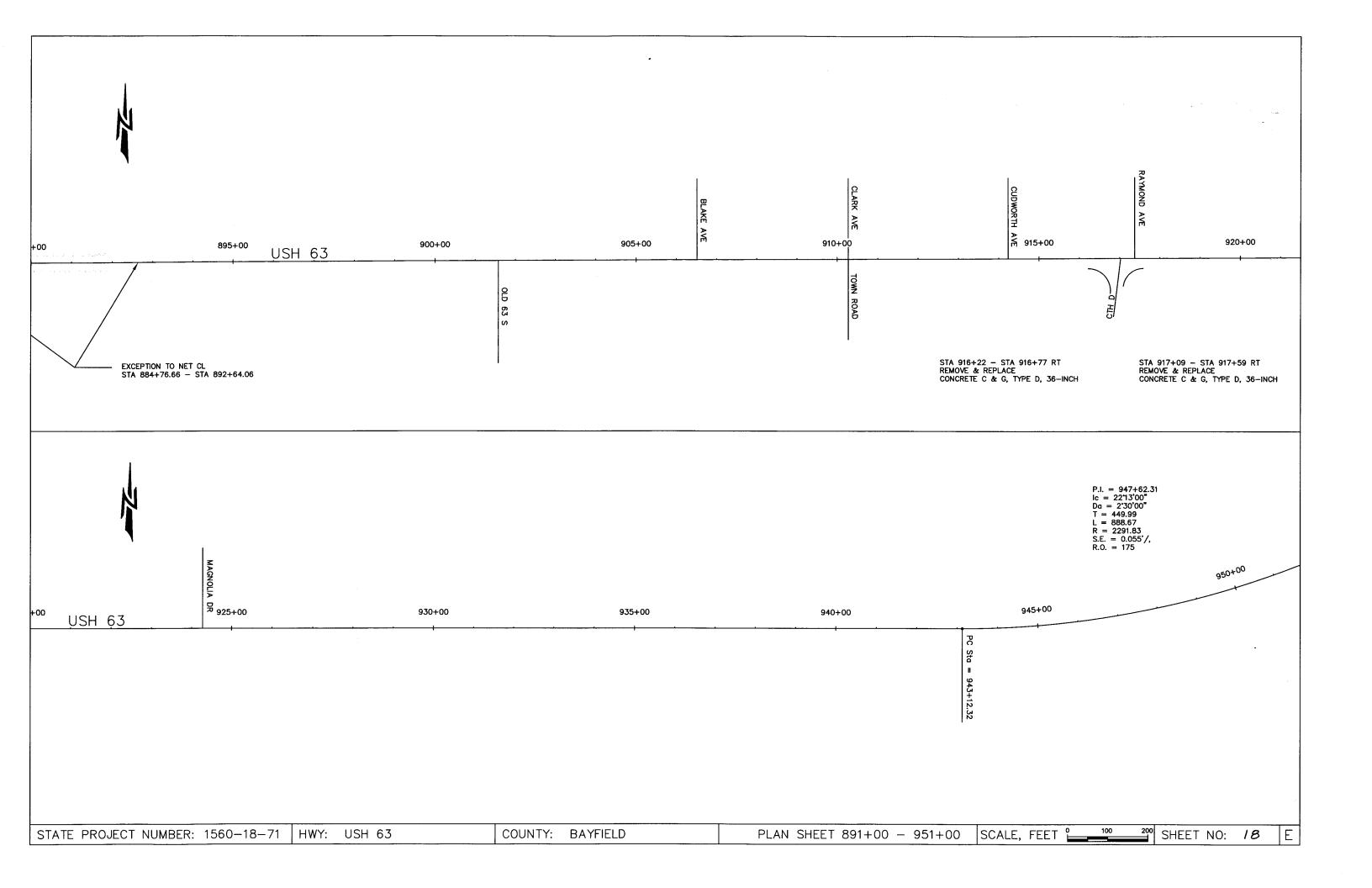


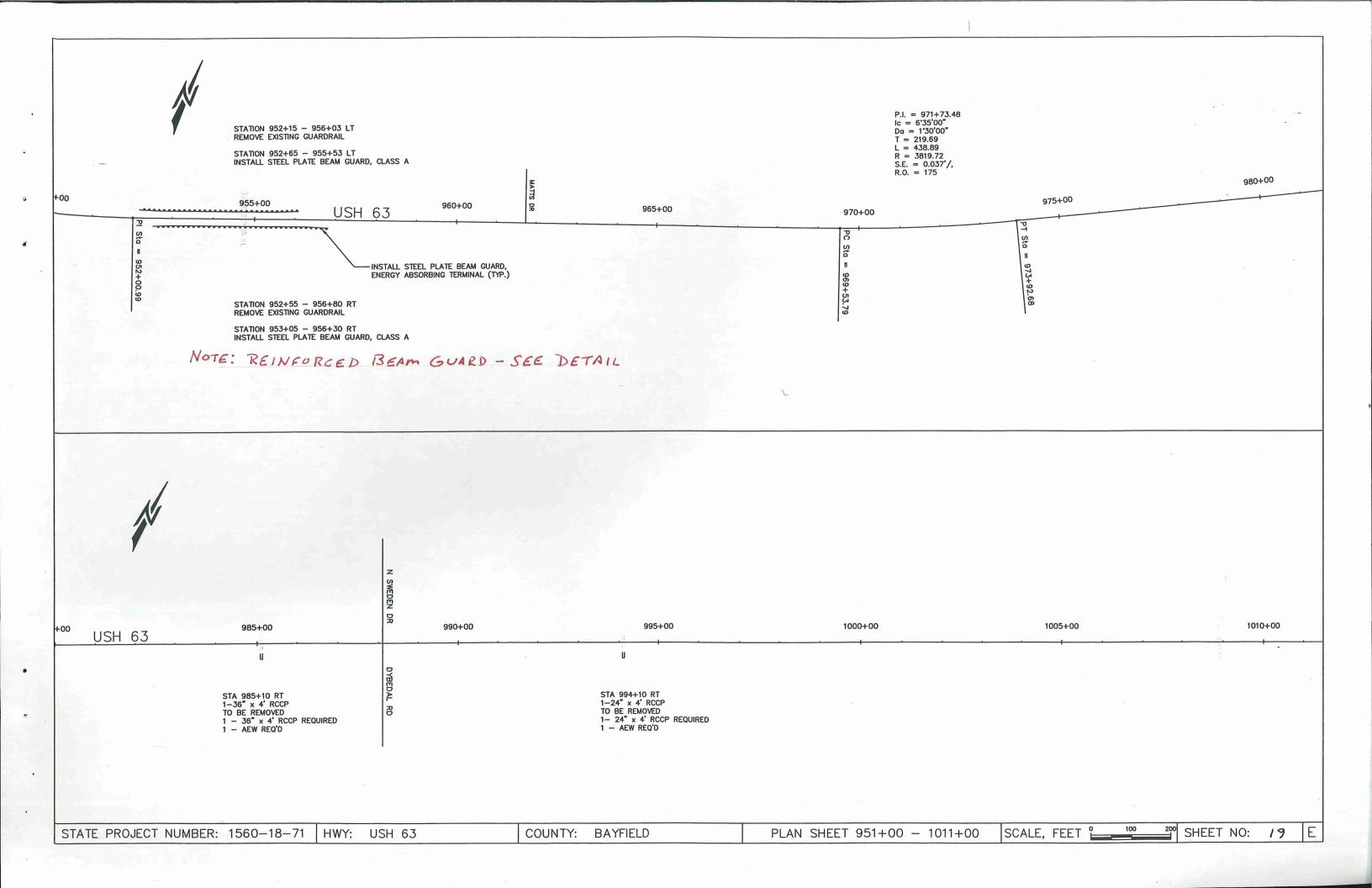
STA 787+42 CLEAN CULVERT PIPE STA 794+15 CLEAN CULVERT PIPE 800+00 795+00 790+00 785+00 780+00 775+00 USH 63 STA 821+09 CLEAN CULVERT PIPE STA 810+15 LT CLEAN CULVERT PIPE RESET CULVERT END STA 825+0 INSTALL 18" CULVERT PIPE LINER INSIDE Z4" EXISTING CSCP 830+00 825+00 820+00 815+00 810+100 805+00 USH 63 200 SHEET NO: 16 SCALE, FEET COUNTY: BAYFIELD PLAN SHEET 771+00 - 831+00 STATE PROJECT NUMBER: 1560-18-71 HWY: USH 63

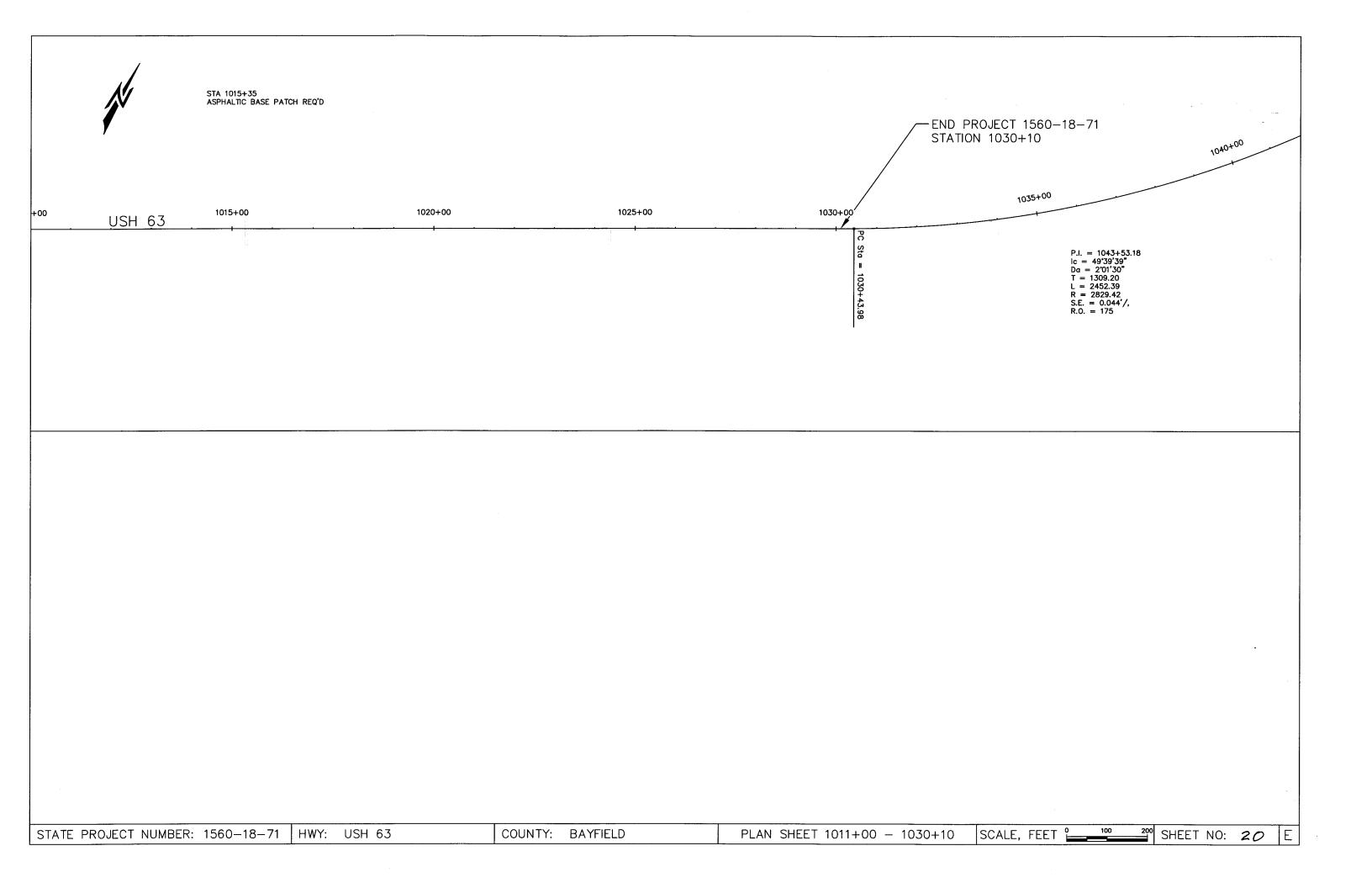


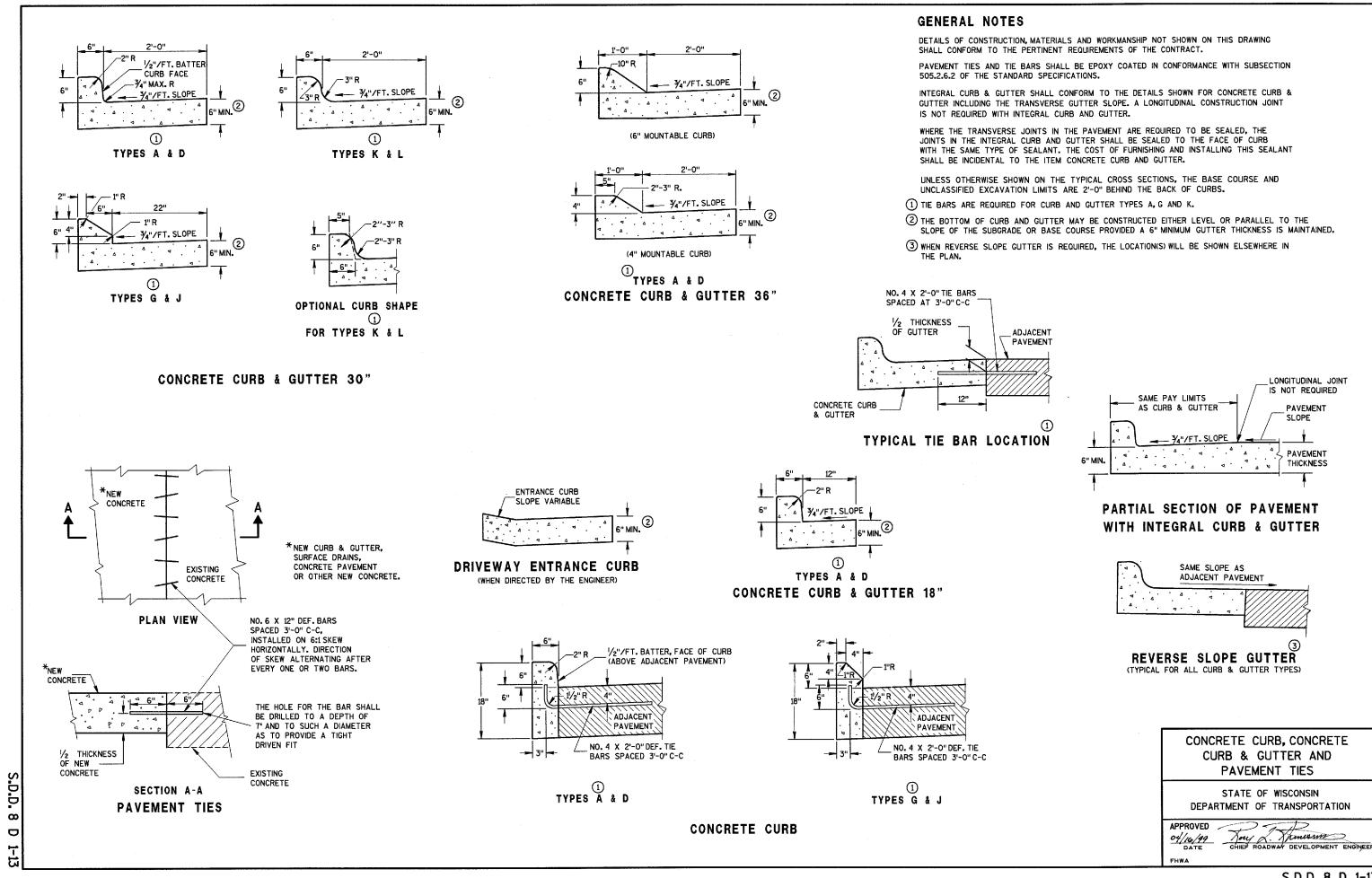






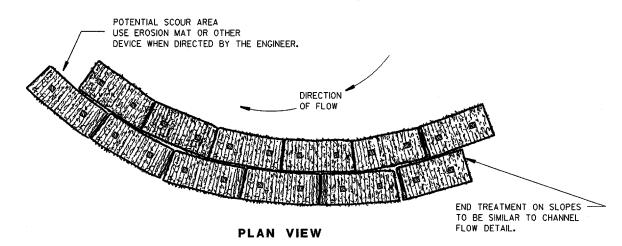




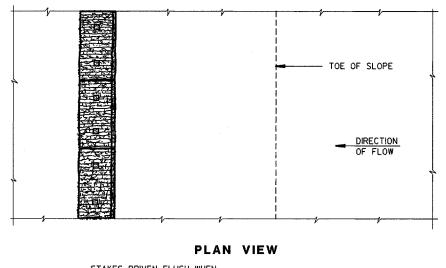


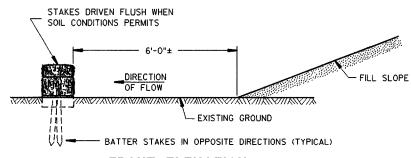
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

1 TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW





FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

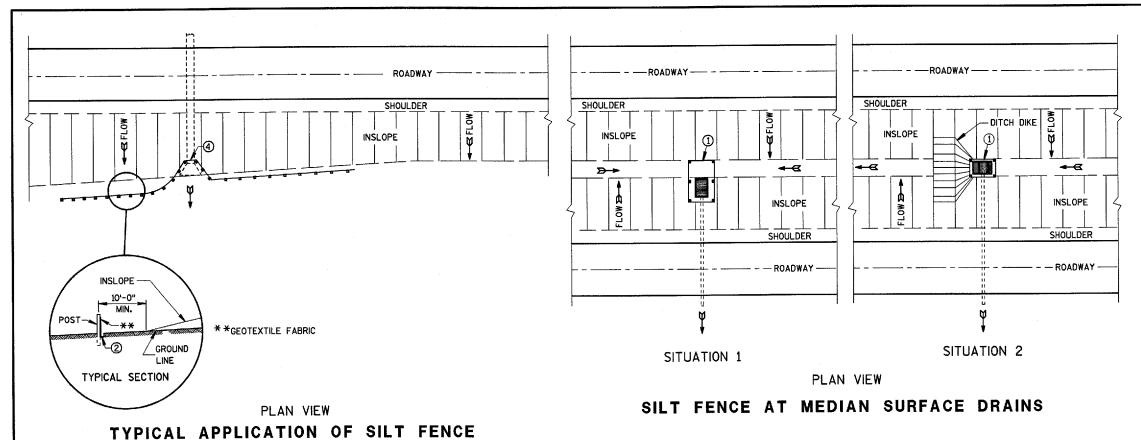
APPROVED

L/4 / OZ

DATE

CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

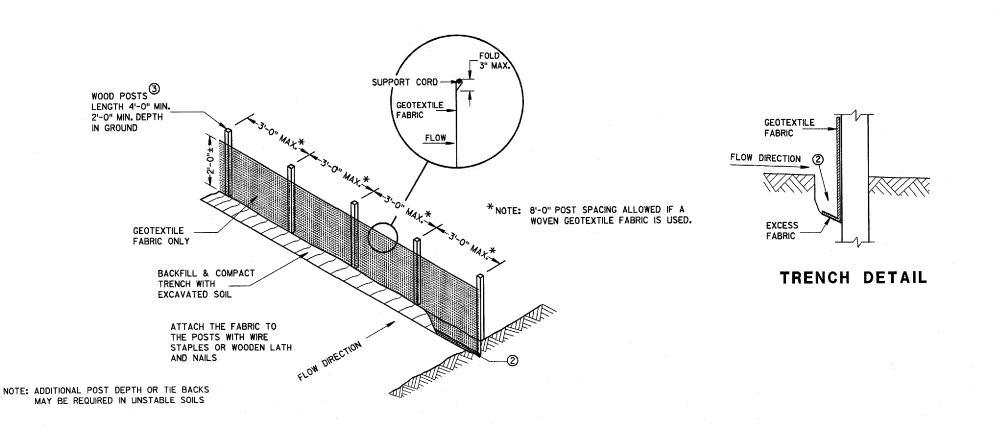


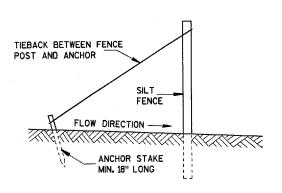
SILT FENCE

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- (3) WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4 SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.





SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PPROVED

SILT FENCE

APPROVED

03/06/00

DATE

CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

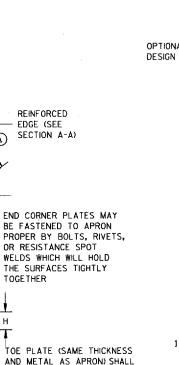
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	METAL APRON ENDWALLS											
PIPE										APPROX.		
DIA.	(Inch		A	В	Н	L	Γį	L ₂	₩	SLOPE	BODY	
(INL)	STEEL	ALUM.	(±1")	(MAX.)	(±]")	(±1½")	1	0	(±2")	020.2		
12	.064	.060	6	6	6	21	12	171/2	24	21/2 to 1	1Pc.	
15	.064	.060	7	8	6	26	14	213/4	30	21/2to 1	i Pc.	
18	.064	.060	8	10	6	31	15	281/4	36	21/2+o 1	1Pc.	
21	.064	.060	9	12	6	36	18	295/8	42	21/2 to 1	1Pc.	
24	.064	.075	10	13	6	41	18	371/4	48	21/2 to 1	1Pc.	
30	.079	.075	12	16	8	51	18	52 ¹ / ₄	60	21/210 1	1Pc.	
36	.079	.105	14	19	9	60	24	59¾	72	21/ ₂ +o 1	2 Pc.	
42	.109	.105	16	22	11	69	24	75%	84	2½to 1	2 Pc.	
48	.109	.105	18	27	12	78	24	81	90	21/4+0 1	3 Pc.	
54	.109	.105	18	30	12	84	30	851/2	102	21/4to 1	3 Pc.	
60	.109×	.105×	18	33	12	87			114	2 to 1	3 Pc.	
66	.109×	.105×	18	36	12	87	_		120	2 to 1	3 Pc.	
72	.109×	.105×	18	39	12	87			126	2 to 1	3 Pc.	
78	.109×	.105×	18	42	12	87			132	11/2+0 1	3 Pc.	
84	.109×	.105×	18	45	12	87	_		138	11/2 to 1	3 Pc.	
90	.109×	.105×	18	37	12	87		_	144	1/2+0 1	3 Pc.	
96	.109×	.105×	18	35	12	87		_	150	1½+o 1	3 Pc.	

ŀ	18	45	12	87	-	l —	138
•	18	37	12	87		_	144
	18	35	12	87		_	150
		EPT CEI GENER/					

REINFORCED CONCRETE APRON ENDWALLS DIMENSIONS (Inches) **SLOPE** (IN.) 48 1/8 3 to 1 3 to 1 $\frac{7}{2}$ 4 9 43/2 50 3 9/2 43/2 50 31/4 10/2 49/2 24 31/2 12 54 193/4 63 343/4 75 3 to 1 3 to 1 21 63 24 72 3 to 1 26 98 331/4-35 981/4- 100 90 54 51/2 27 51/2 2% to 1 65 7/2 24-36 78 7/2 24-36 78 7/2 24-36 78 7/2 24-36 78 39 99 96 * * * * 21-27 99 102 51/2 2 to 99 108 21 6 2 to 21 114 61/2 2 to 1 99 36 901/2 21 111/2 120 61/2 11/2 to 1 90 81/2 41 871/2 1111/2 132 61/2 1/2 to 1 24

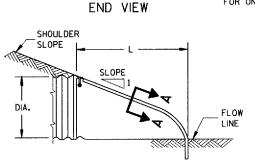
**MAXIMUM



TOGE THER

BE FURNISHED WHEN CALLED

FOR ON THE PLANS



PLAN VIEW

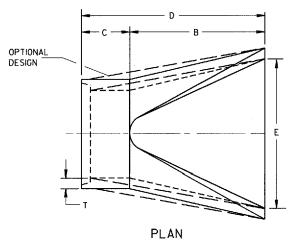
END CORNER

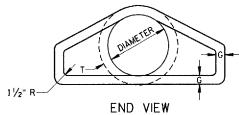
16" DIA. HOLES FOR

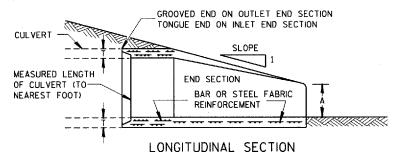
12" C-C MAX. SPACING

BOLTS OR RIVETS

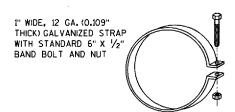




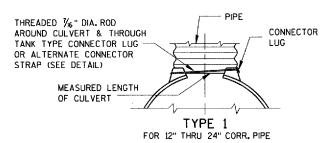


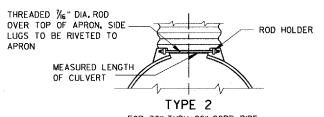


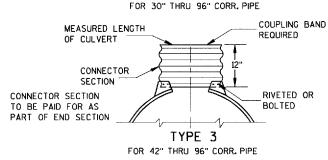
CONCRETE ENDWALLS

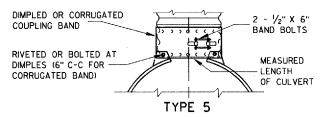


ALTERNATE FOR TYPE 1 CONNECTION END SECTION CONNECTOR STRAP









ALTERNATE FOR: ALL SIZES CORRUGATED CIRCULAR PIPE

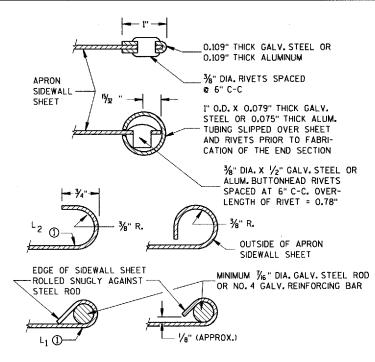
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY

> FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

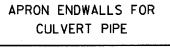
CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA, GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

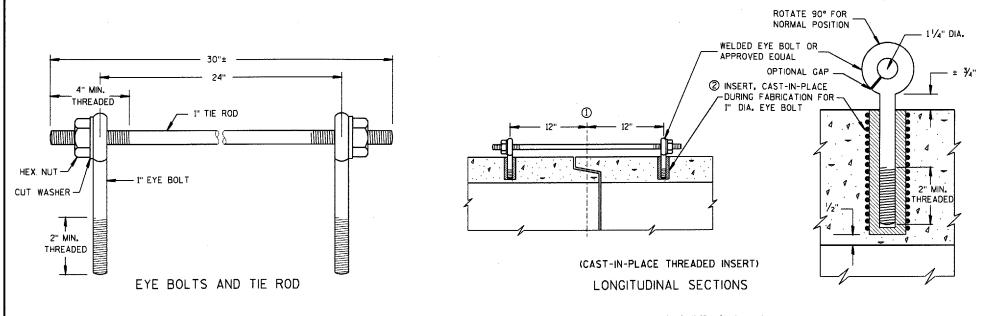
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED Lough Thinesone CHIEFOROADWAY DEVELOPMENT ENGINEER FHWA



CONCRETE CULVERT PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED ON THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES. UNLESS OTHER-WISE STATED IN THE CONTRACT THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE CULVERT PIPE AS INDICTED ON THE PLANS AND BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO CILVERT PIPE, REINFORCED CONCRETE CULVERT PIPE, OR REINFORCED CONCRETE PIPE CATTLE PASS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE

- € OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE
- 3 HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12" FROM € OF TONGUE AND GROOVE.
- (4) BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2".
- (5) ROD DIAMETER + 1 INCH.
- 6 LENGTH ADEQUATE TO EXTEND TO WITHIN $\frac{1}{2}$ INCH OF THE INNER SURFACE OF THE PIPE.

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

30"

36"

42"

48"

60"

66"

MIN. 34" EYE BOLT

EYE BOLT AND TIE ROD

EYE BOLT DIMENSION TABLE

TONGUE &

GROOVE PIPE

4 1/2"

5 1/2"

6"

6 ½"

7 1/2"

HEX NUT

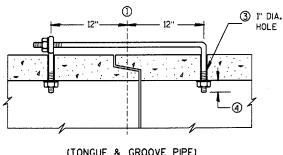
L = LENGTH

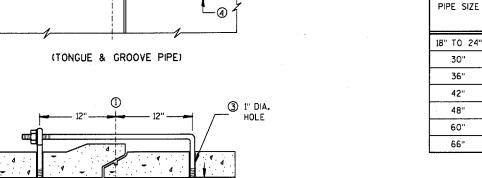
MODIFIED BELL PIPE

6 1/4"

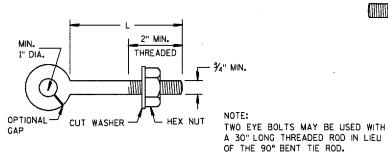
7"

2" MIN.





(MODIFIED BELL PIPE) LONGITUDINAL SECTION



EYE BOLT

b

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(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

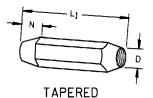
EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

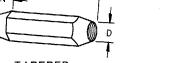
THREADED

PIPE DIAMETER	TIE ROD DIAMETER	D	Li	N
12~60	%	5/8	5	1/2
66~84	₹4	₹4	5	1/2
90-108	1	1	7	1 1/16

ADJUSTABLE TIE ROD TABLE

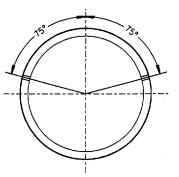
DIMENSIONS SHOWN ARE IN INCHES





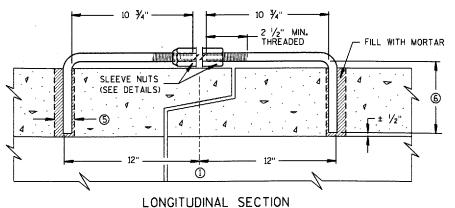
PLAIN

RIGHT AND LEFT THREADS SLEEVE NUTS



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)

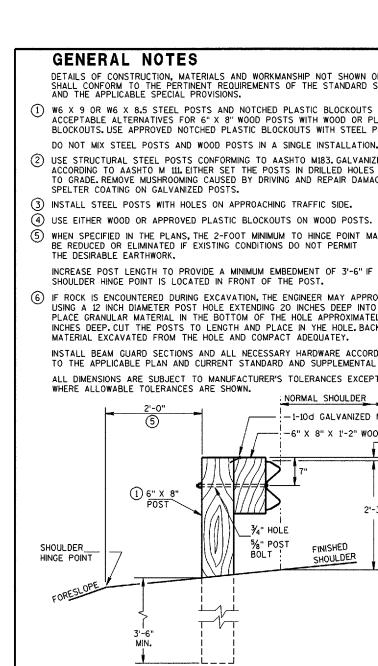
JOINT TIES FOR CONCRETE PIPE

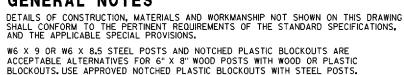
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

STATE DESIGN ENGINEER FOR HWYS

S.D.D. 8 F 4-5





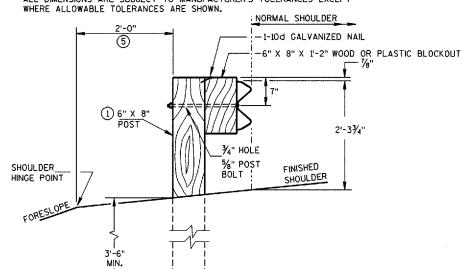
- (2) USE STRUCTURAL STEEL POSTS CONFORMING TO AASHTO M183. GALVANIZE ACCORDING TO AASHTO M 111. EITHER SET THE POSTS IN DRILLED HOLES OR DRIVE TO GRADE. REMOVE MUSHROOMING CAUSED BY DRIVING AND REPAIR DAMAGED SPELTER COATING ON GALVANIZED POSTS.
- (3) INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- 4 USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.
- (5) WHEN SPECIFIED IN THE PLANS, THE 2-FOOT MINIMUM TO HINGE POINT MAY BE REDUCED OR ELIMINATED IF EXISTING CONDITIONS DO NOT PERMIT THE DESIRABLE EARTHWORK.

INCREASE POST LENGTH TO PROVIDE A MINIMUM EMBEDMENT OF 3'-6" IF THE SHOULDER HINGE POINT IS LOCATED IN FRONT OF THE POST.

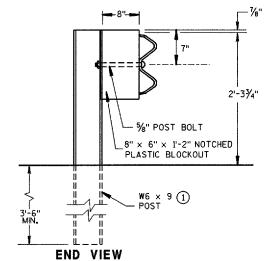
6 IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCH DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE APPROXIMATELY 21/2 INCHES DEEP CUT THE POSTS TO LENGTH AND PLACE IN YHE HOLE BACKFILL WITH MATERIAL EXCAVATED FROM THE HOLE AND COMPACT ADEQUATEY.

INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.

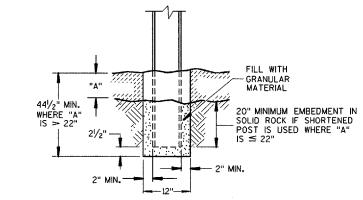
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT



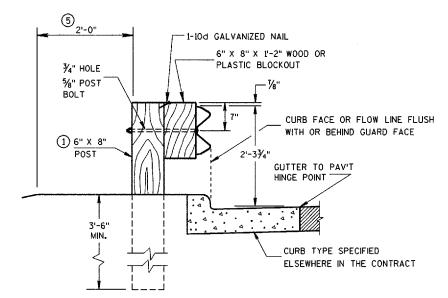
END VIEW LOCATED ALONG A ROADWAY SHOULDER



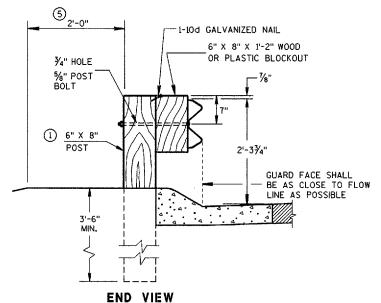
STEEL POST & NOTCHED PLASTIC BLOCKOUT ALTERNATIVE TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD



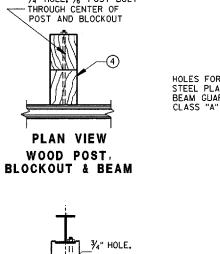
END VIEW SETTING STEEL OR WOOD POST IN ROCK



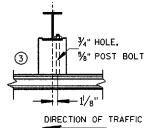
END VIEW LOCATED ALONG A CURBED ROADWAY



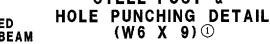
LOCATED ALONG A MOUNTABLE CURBED ROADWAY



¾" HOLE, %" POST BOLT

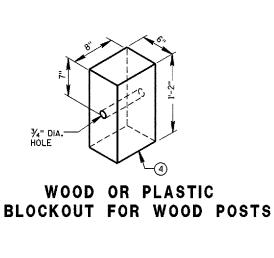


PLAN VIEW STEEL POST, NOTCHED PLASTIC BLOCKOUT & BEAM



(W6 X 9) ① ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED

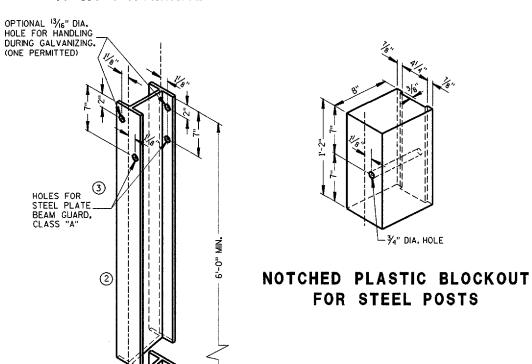
STEEL POST &



WOOD POST (6"X8") NOMINAL

¾" DIA. -

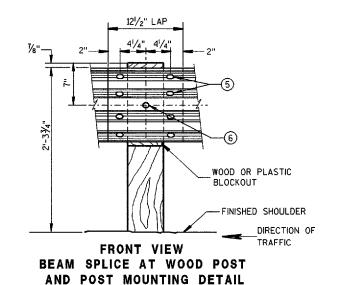
(ONE PERMITTED)





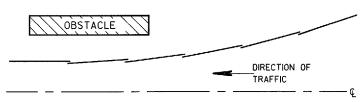
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

12'-6" OR 25'-0" EFFECTIVE LENGTH OF BEAM 6'-3" C-C POST SPACING POST SPACING FINISHED SHOULDER DIRECTION OF TRAFFIC



12¹/2" LAP

. € POST BOLT SLOT



2

DIRECTION OF
TRAFFIC

PLAN VIEW
BEAM LAPPING DETAIL

DIRECTION
OF TRAFFIC

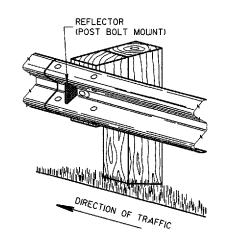
DIRECTION
OF TRAFFIC

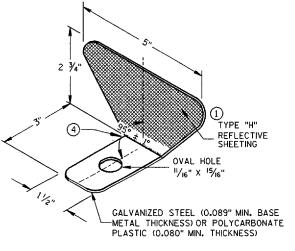
¾" × 2½" POST BOLT SLOT

FRONT VIEW
BEAM SPLICE AT STEEL POST

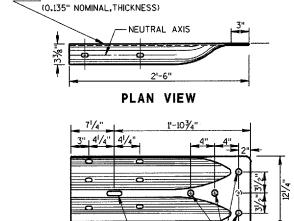
TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD

	REFLECTOR SPACING											
	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS								
ONE WAY	< 200' > 200'	50' C-C 100' C-C	1 1	3								
TWO WAY TRAFFIC	< 200' > 200'	25' C-C 50' C-C	1 1 3	6								
TWO WAY	< 200' > 200'	50' C-C 100' C-C	24	3								

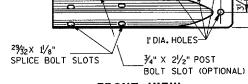




ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION $^{\circ}$



10 GAGE STEEL



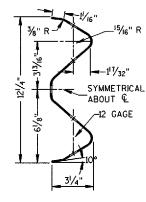
FRONT VIEW

W BEAM TERMINAL CONNECTOR

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

GENERAL NOTES

- 1 PROVIDE TYPE "H" SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH TYPE "H" YELLOW REFLECTIVE SHEETING.
- ② DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- (3) REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.
- (4) PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.
- (5) 8 1/4" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
- $\ensuremath{\,^{\circ}}\xspace5^{\circ}_{9}"$ ϕ x 1'-6" button head bolt and and recess nut with round washer under nut.



SECTION THRU W BEAM

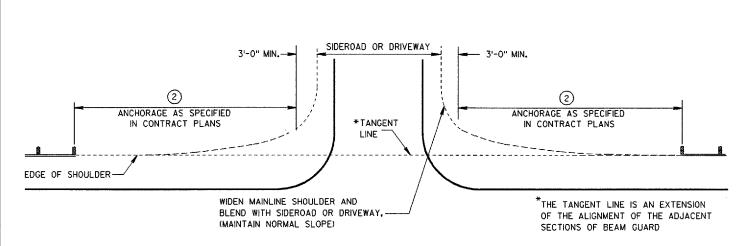
STEEL PLATE BEAM GUARD, CLASS 'A', INSTALLATION & ELEMENTS

STATE OF WISCONSIN

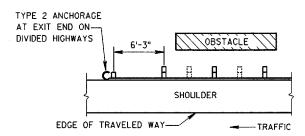
DEPARTMENT OF TRANSPORTATION

APPROVED 12/08/00 DATE

John Havelberg CHIEF ROADWAY DEVELOPMENT ENGINEER



BEAM GUARD AT SIDEROADS OR DRIVEWAYS



BEAM GUARD AT OBSTACLES EXIT END - ONE WAY TRAFFIC

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

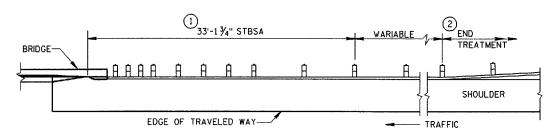
W6 X 9 OR W6 X 8.5 STEEL POSTS WITH NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS, USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

THE LOCATIONS AND LENGTHS OF BEAM GUARD ARE SHOWN ELSEWHERE IN THE PLAN.

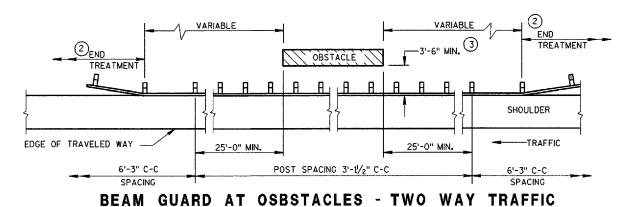
- 1) USE STEEL THRIE BEAM STRUCTURAL APPROACH (STBSA).
- ② USE AN APPROVED END TREATMENT FOR THE TRAFFIC APPROACH SIDE OF BRIDGE/OBSTACLES. USE TYPE 2 ANCHORAGE ONLY AT THE DOWNSTREAM ENDS OF BEAM GUARD LOCATED ALONG ROADWAYS WITH ONE WAY TRAFFIC.

3 DESIGN DEFLECTION OF W-BEAM BARRIER SYSYTEM

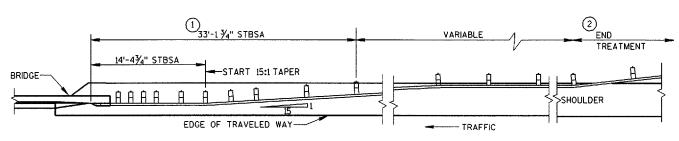
LATERAL DISTANCE TO FIXED OBJECT	POST SPACING
3'-6" TO 4'-6"	3' - 11/2"
4'-6" AND OVER	6' - 3"



BEAM GUARD AT FULL WIDTH BRIDGES



(RAIL TO OBSTACLE CLEARANCE 3'-6" TO 4'-6")



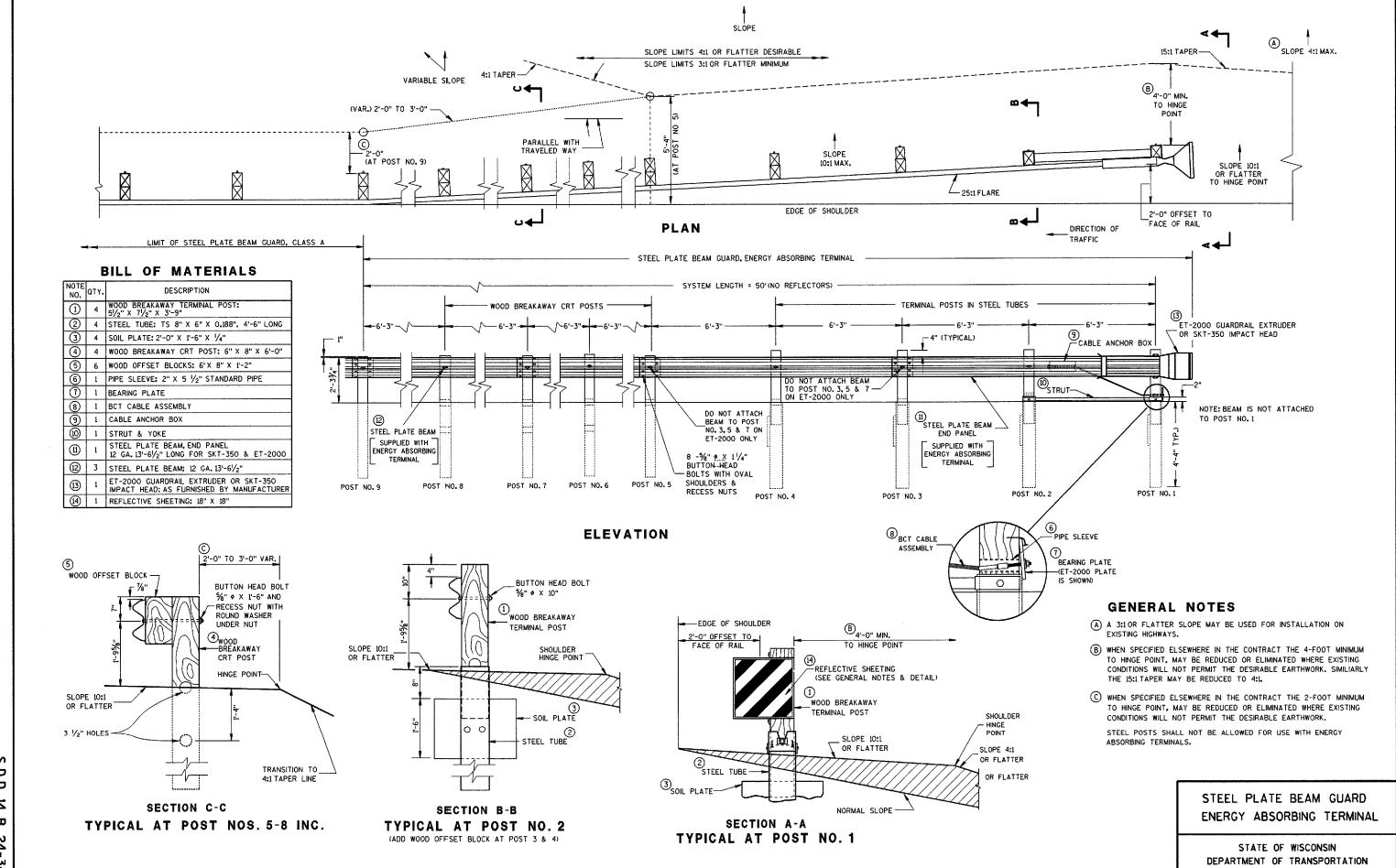
BEAM GUARD AT NARROW BRIDGES
(FLARED TO SHOULDER EDGE, THEN PARALLEL TO ROADWAY)

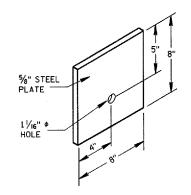
STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

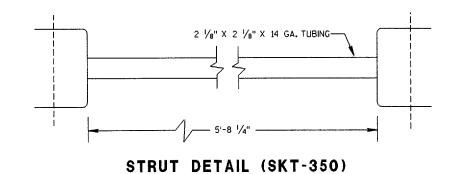
APPROVED (2/08/00 DATE

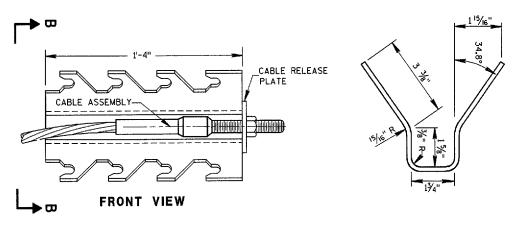
CHIEF ROADWAY DEVELOPMENT ENGINEER





STEEL BEARING PLATE (SKT-350)

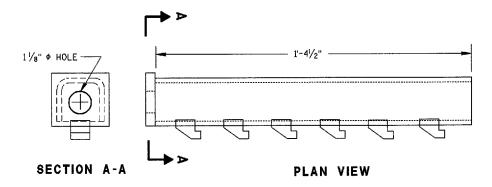




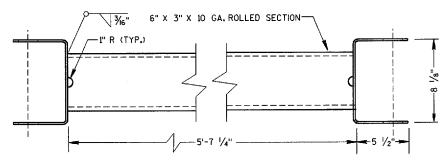
SECTION B-B

CABLE ANCHOR BOX (SKT-350)

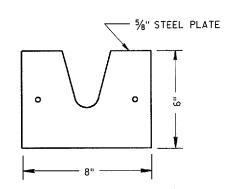
(SKT-350)



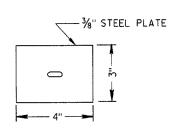
CABLE ANCHOR BOX (ET-2000)



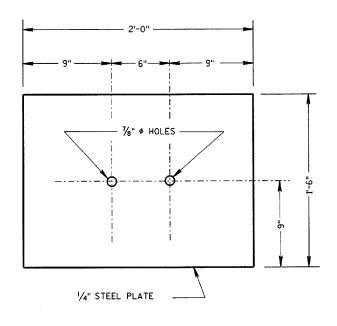
STRUT DETAIL (ET-2000)



STEEL BEARING PLATE (ET-2000)



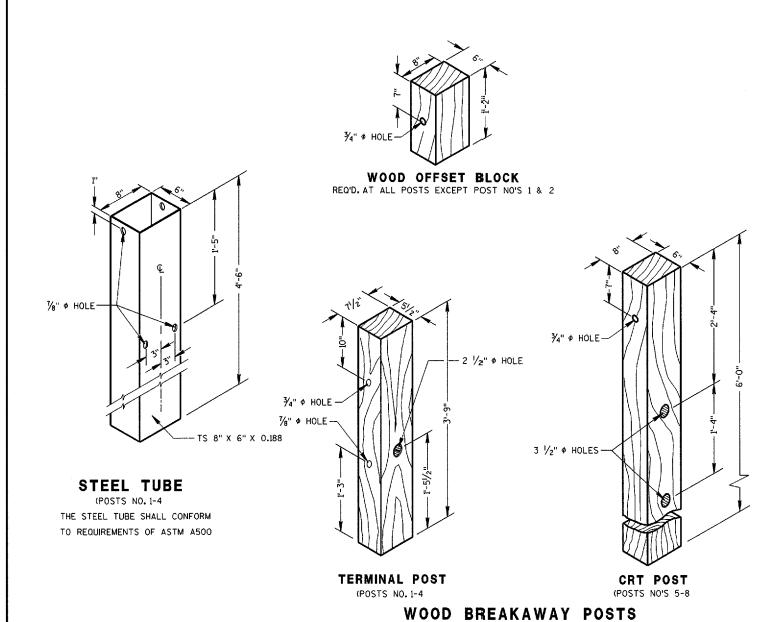
BEARING PLATE WASHER ET-2000)
(ET-2000)



SOIL PLATE (SKT-350 & ET-2000)

STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, APPLICABLE SPECIAL PROVISIONS AND MANUFACTURERS INSTRUCTIONS.

STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL SHALL BE EITHER THE EXTRUDER TERMINAL (ET-2000), OR THE SEQUENTIAL KINKING TERMINAL (SKT-350). THE CONTRACTOR SHALL NOT INTERMIX PROPRIATERY PRODUCT MATERIALS.

THE "ET-2000" IS AVAILABLE FROM SYRO, INC., 2524 N. STEMMONS FREEWAY, DALLAS TEXAS 75207. TELEPHONE 1-800-835-6086 OR 1-800-644-7976

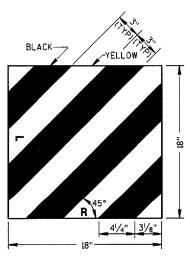
THE "SKT-350" IS AVAILABLE FROM ROAD SYSTEMS, INC., 7631 NEW CASTLE DRIVE, FRANKFORT, ILLINOIS 60423. TELEPHONE (815) 464-5917

THE ET-2000, AND SKT-350 END TERMINALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

STEEL PLATE BEAM GUARD, ENERGY ABSORBING TERMINAL SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH, WHICH SHALL INCLUDE HARDWARE, STEEL PLATE BEAM GUARD, POSTS, REFLECTIVE SHEETING AND INSTALLATION AS SHOWN

REFLECTIVE SHEETING - SHALL CONFORM TO ASTM SPECIFICATION D4956-93b, REFLECTIVE SHEETING TYPE III, BACKING CLASS 4, PERFORMANCE REQUIREMENT TYPE III, THE MESSAGE AND LINES SHALL BE APPLIED TO THE SIGNS BY THE SILK SCREEN STENCIL PROCESS USING A BLACK OR DARK STENCIL PASTE AS A TYPE APPROVED BY THE MANUFACTURER OF THE FACE MATERIAL TO WHICH IT IS TO BE APPLIED. MESSAGE UNITS CUT FROM NONREFLECTIVE SHEETING AND APPLIED TO THE SIGN FACE ARE NOT ACCEPTABLE. AFTER THE APPROACH END OF THE STEEL PLATE BEAM GUARD INSTALLATION IS COMPLETE, CLEAN THE AREA WHERE THE REFLECTIVE SHEETING WILL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION. ONCE CLEAN, APPLY REFLECTIVE SHEETING DIRECTLY TO THE STEEL PLATE BEAM GUARD AS SHOWN. THE CONTRACTOR SHALL TURN OVER THE MANUFACTURERS WARRANTY FOR THE REFLECTIVE SHEETING TO THE DEPARTMENT FOR POTENTIAL DEALING WITH THE MANUFACTURER. PAYMENT OF REFLECTIVE SHEETING IS INCIDENTAL TO STEEL PLATE BEAM GUARD, FNERGY ABSORBING TERMINAL.

WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA, POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 $\frac{1}{2}$ " INCHES DEEP TO PROVIDE DRAINAGE, THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.



REFLECTIVE SHEETING DETAIL

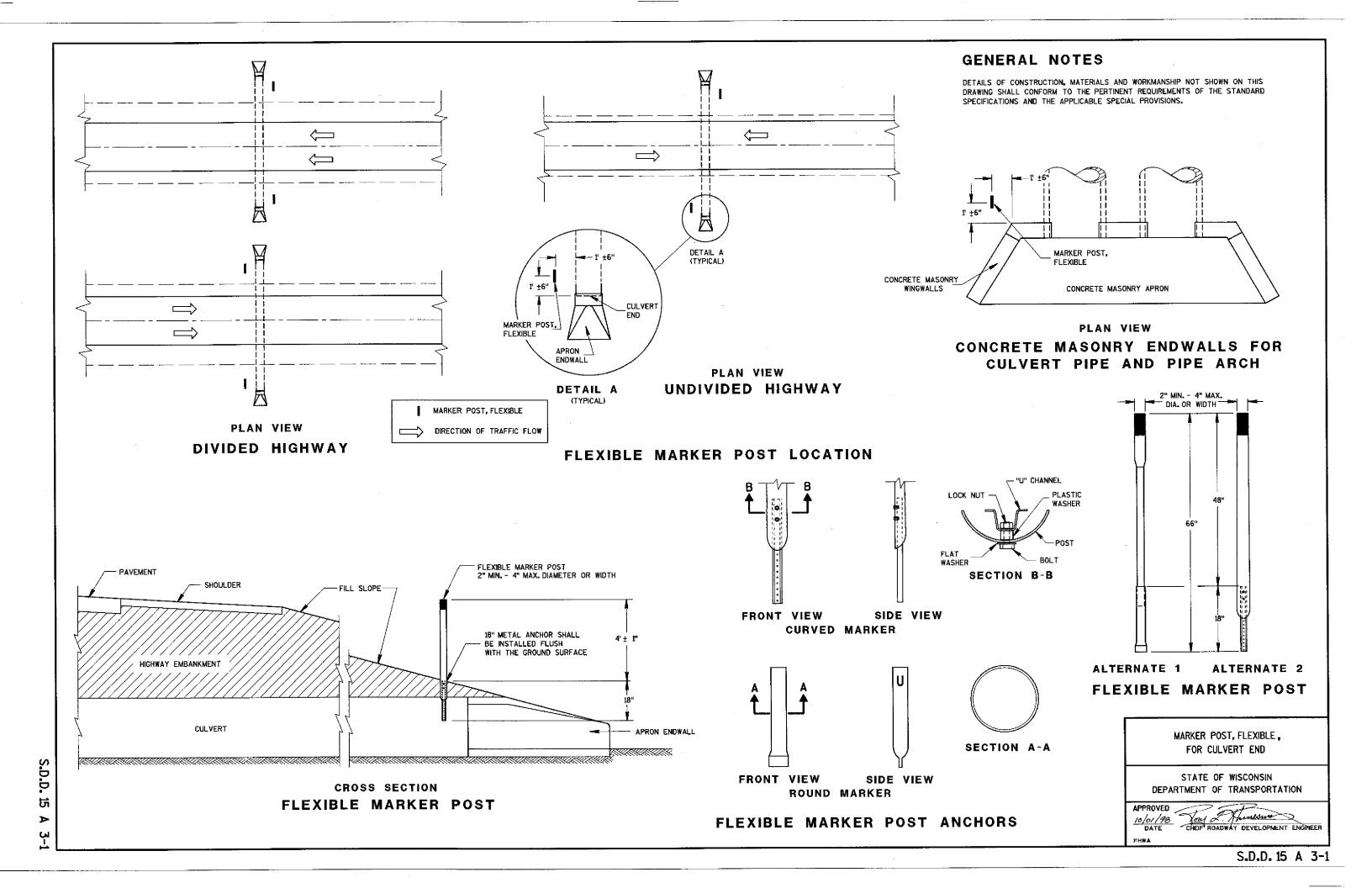
STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

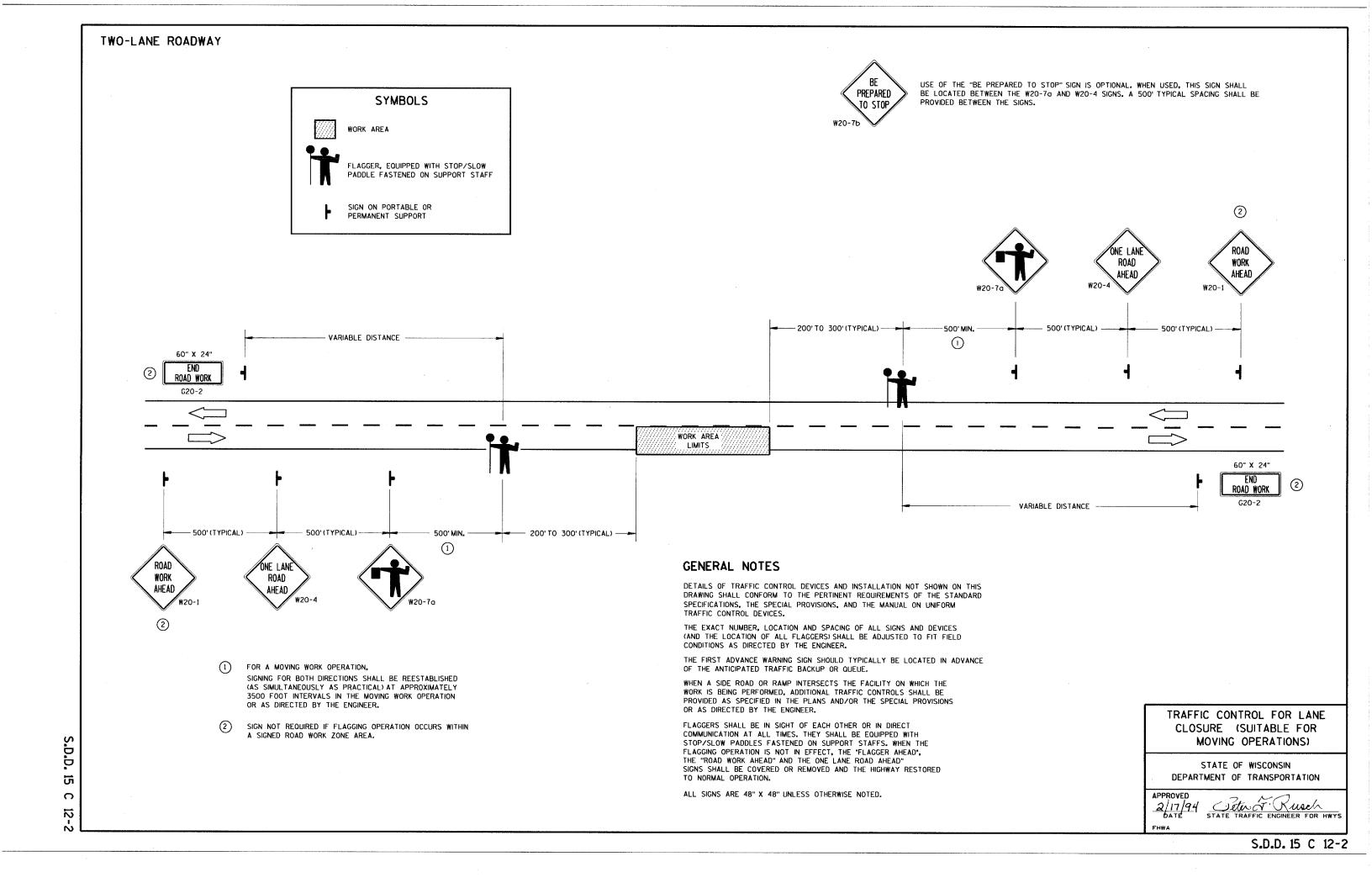
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

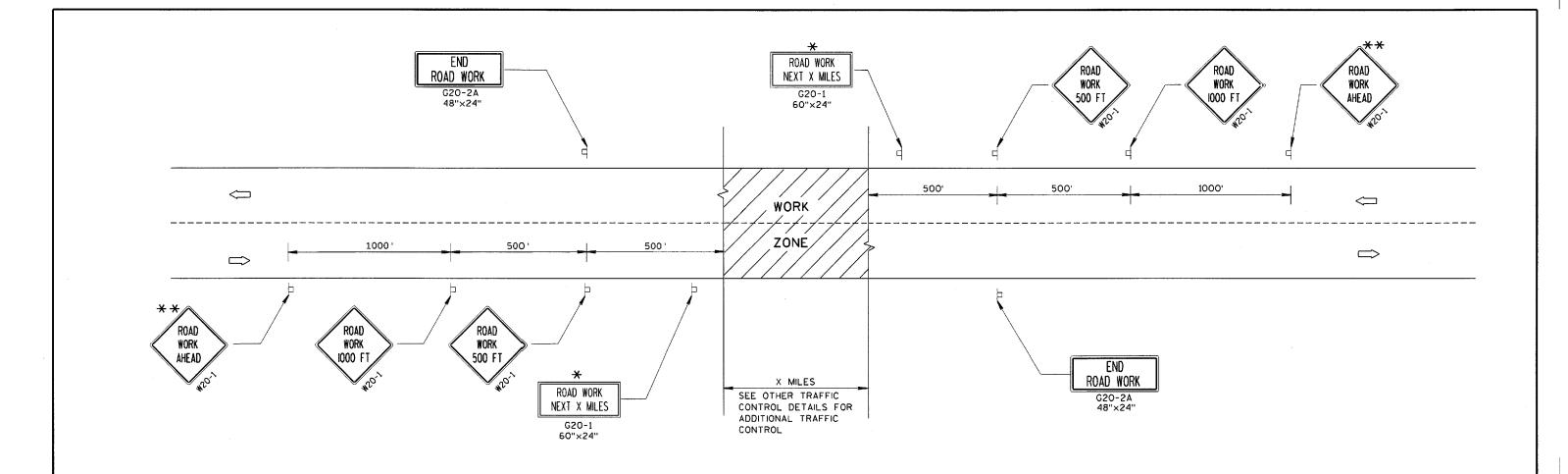
APPROVED /2/08/00 DATE

FHWA

Havelberg CHIEF ROADWAY DEVELOPMENT ENGINEER







TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

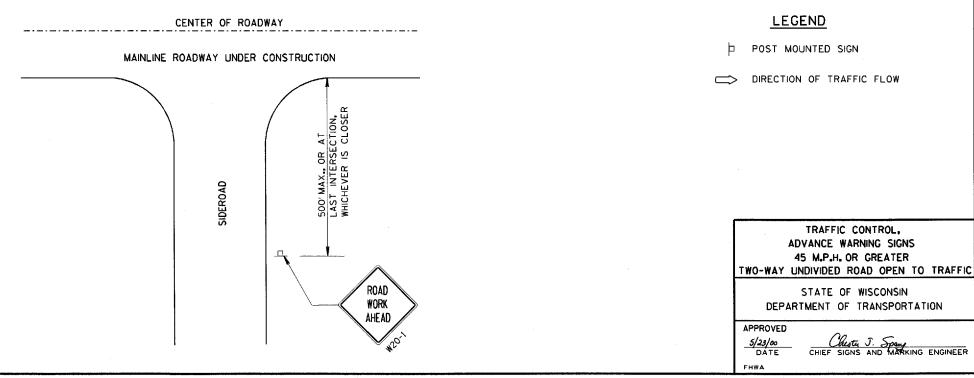
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

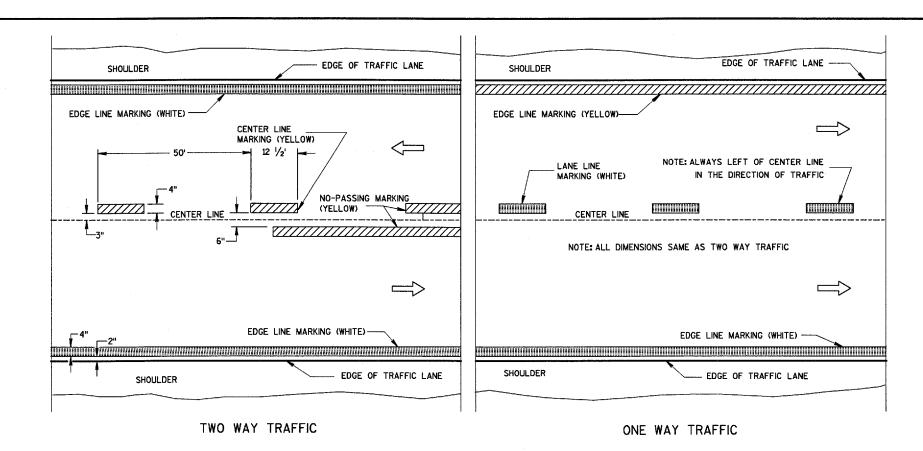
ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

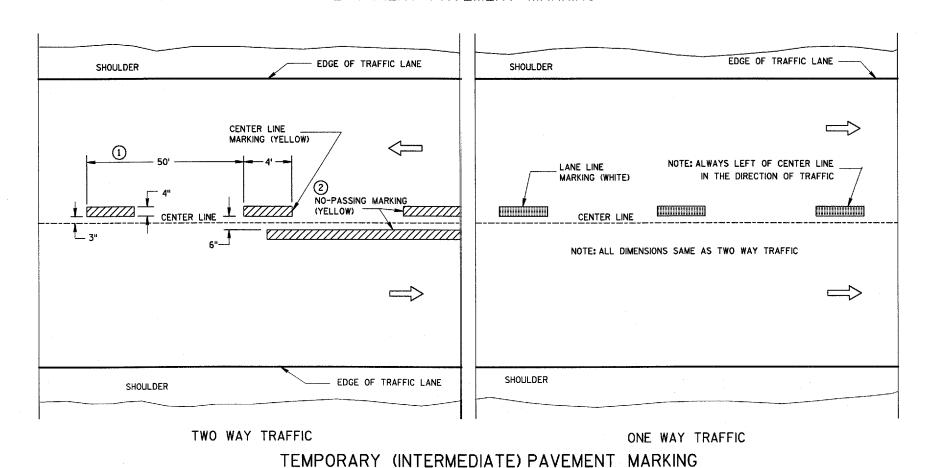
IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

- * OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- ** PLACE ADDITIONAL W20-1 "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA OR SIGNING.





PERMANENT PAVEMENT MARKING



(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

- 1 HALF CYCLE LENGTHS (25'±) WITH 2'MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
- (2) NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.

NOTE

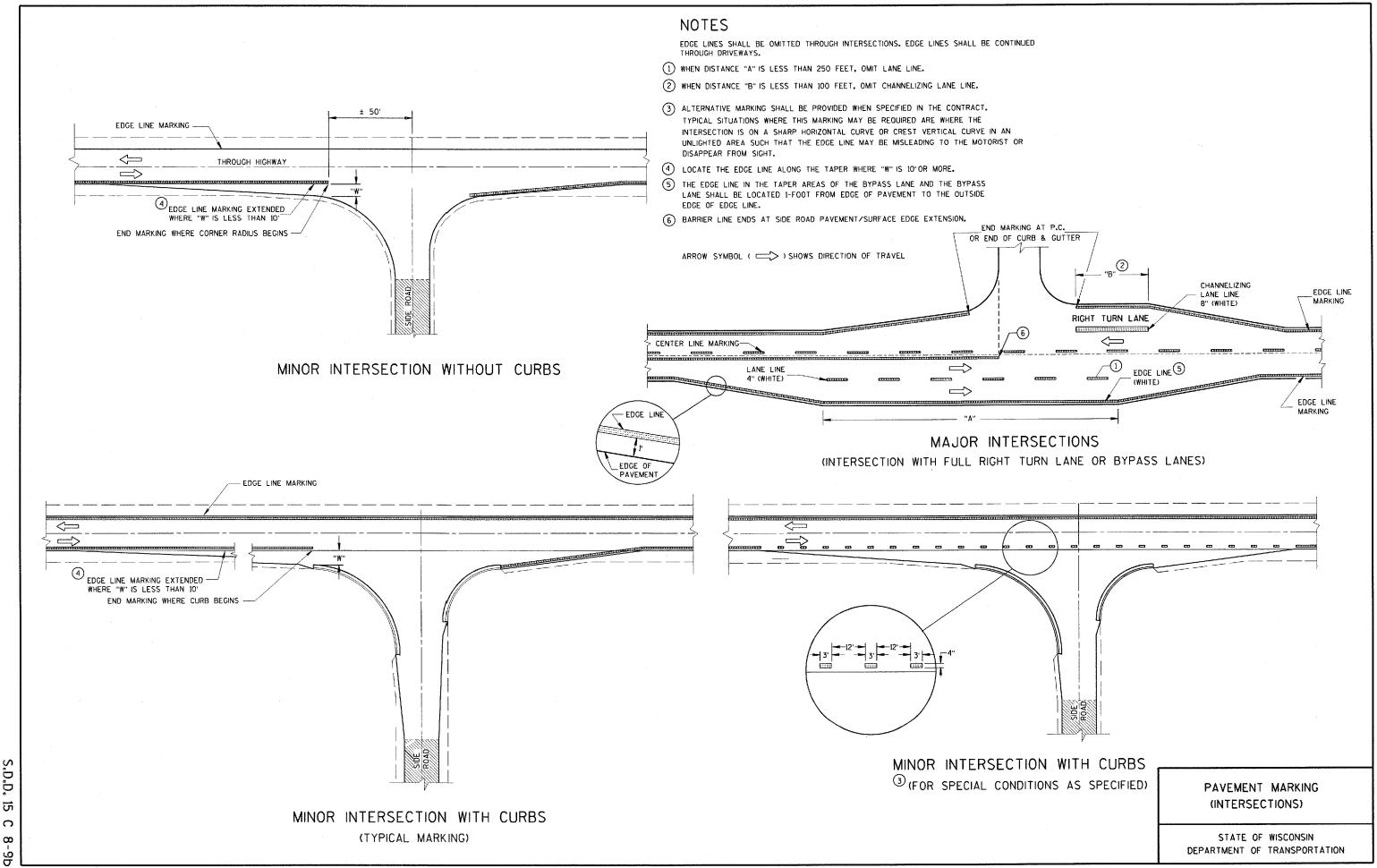
ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL

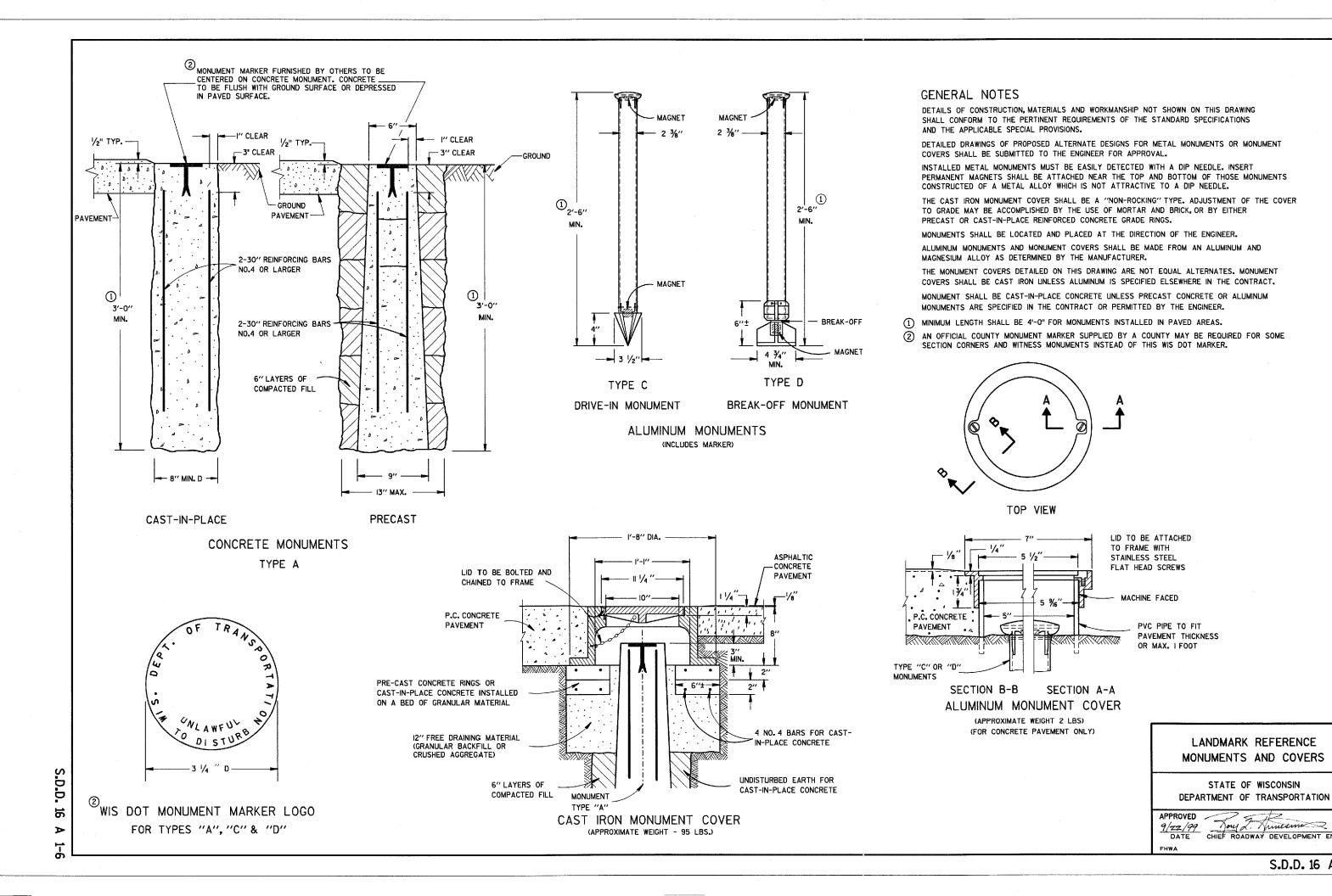
PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

2-17-00 DATE FHWA CHIEF SIGNS AND MARKING ENGINEER





S.D.D. 16 A 1-6

STATE OF WISCONSIN

Roy J. Kunesmi

CHIEF ROADWAY DEVELOPMENT ENGINE

USH 63 EARTHWORK VOLUMES AT BEAMGUARD TERMINALS FILL END AREA COMMON FILL (EXP 30%) END AREA FILL (S.F.) STATION CUT (S.F.) C.Y. C.Y. C.Y. Rust Flowage 0 486+05, RT 0 0 0 2.0 11.0 14.3 486+35, RT 3.6 19.8 23.8 18.3 486+85, RT 0 0 3.3 486+85, LT 0 0 0 487+00, LT 5.8 30.4 1.6 8.4 10.9 28.1 36.5 5.4 487+50, LT 0 0 490+60, RT 0 0 0 0 491+00, RT 0.9 49.4 0.7 36.6 47.6 13.7 17.8 0.3 491+15, RT 0 0 491+25, LT 0 0 35.3 45.9 5.6 47.7 4.1 491+75, LT 3.1 26.5 34.5 492+05, LT 0 0 20-Mile Creek 0 0 0 0 951+85, LT 3.3 3.6 4.7 952+15, LT 6.0 6.5 6.0 5.6 7.8 952+65, LT 0 0 0 0 0 0 952+25, RT 4.1 2.7 3.5 952+55, RT 7.4 4.9

0

0

0

0

0

2.3

41.4

953+05, RT

955+53, LT

956+03, LT 956+33, LT

956+30, RT

956+80, RT

957+10, RT

TOTALS:

0

0

5.6

0

0

0

7.5

6.9

5.2

3.1

6.9

4.2

60

4.5

38.3

23.0

0

2.2

1.5

260

5.9

49.8

29.9

2.9

2.0

338

