

FOREST SERVICE – REGION SIX
 SIUSLAW NATIONAL FOREST
 CENTRAL COAST RANGER DISTRICT
 LINCOLN COUNTY

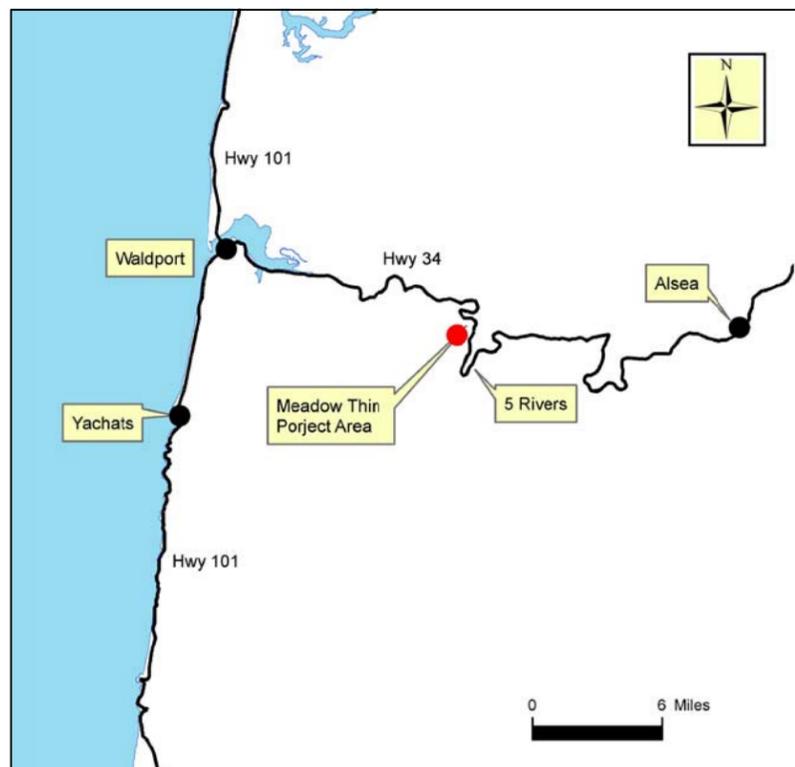


ROAD PLANS FOR PROPOSED
MEADOW THIN STWD

LEGAL DESCRIPTION T14S, R9W, SECTION 6.
 T14S, R10W, SECTION 1, 11, 12.

SHEET INDEX	
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ROAD NO	LENGTH (MI)	DESIGN STD.	RECONST/CONST
3430	2.326	SINGLE LANE	RECONST
3431	2.446	SINGLE LANE	RECONST



DESIGN

 DESIGNER DATE

REVIEW

 REVIEWING ENGINEER DATE

 ASSISTANT DEVELOPMENT ENGINEER DATE

RECOMMENDED BY

 ZONE ENGINEER DATE

APPROVAL

 FOREST ENGINEER DATE

 LINE OFFICER DATE

MEADOW THIN STWD

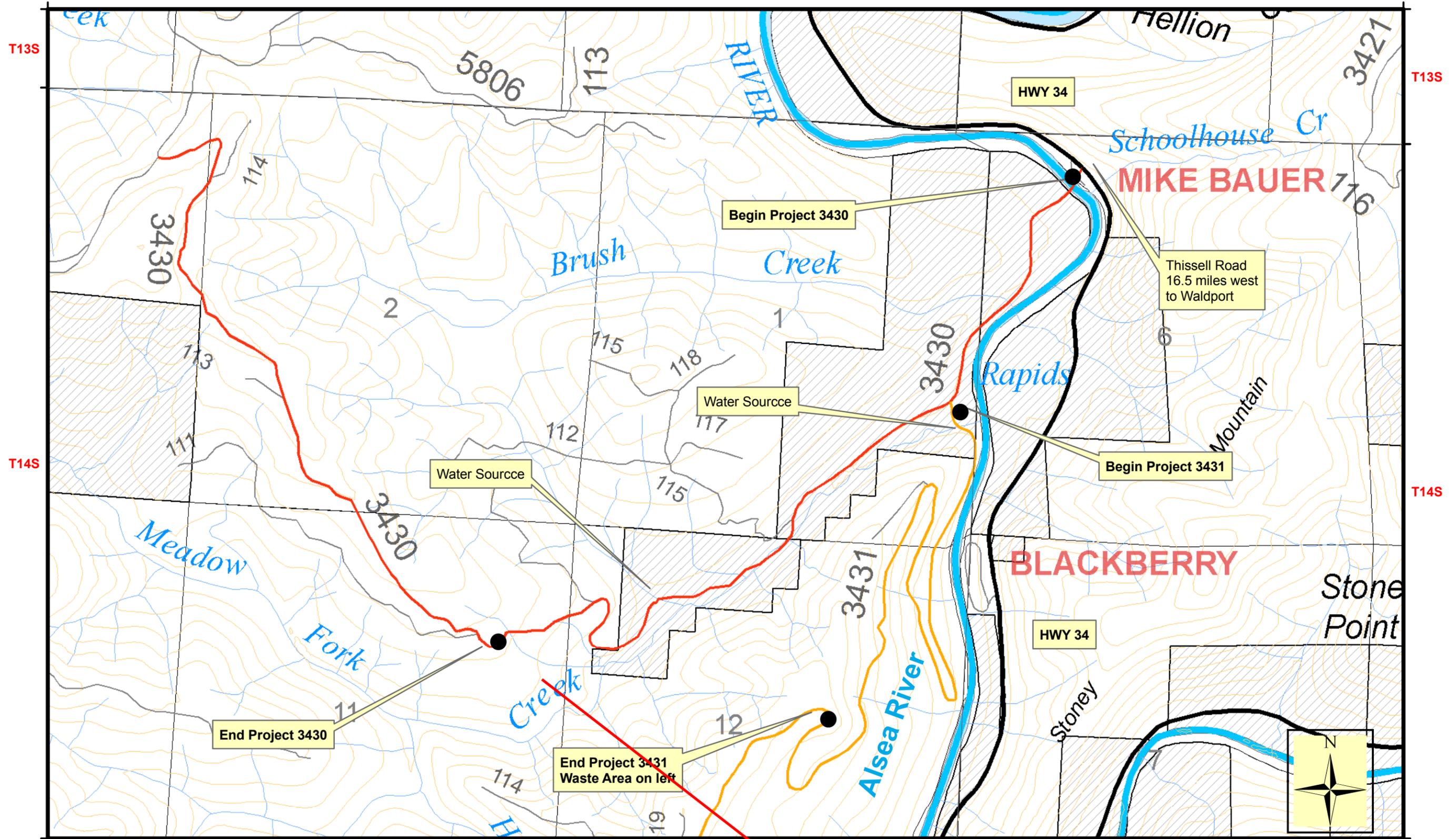
PROJECT

SHEET

Sheet
No.
2

Total
Sheets
17

VICINITY MAP

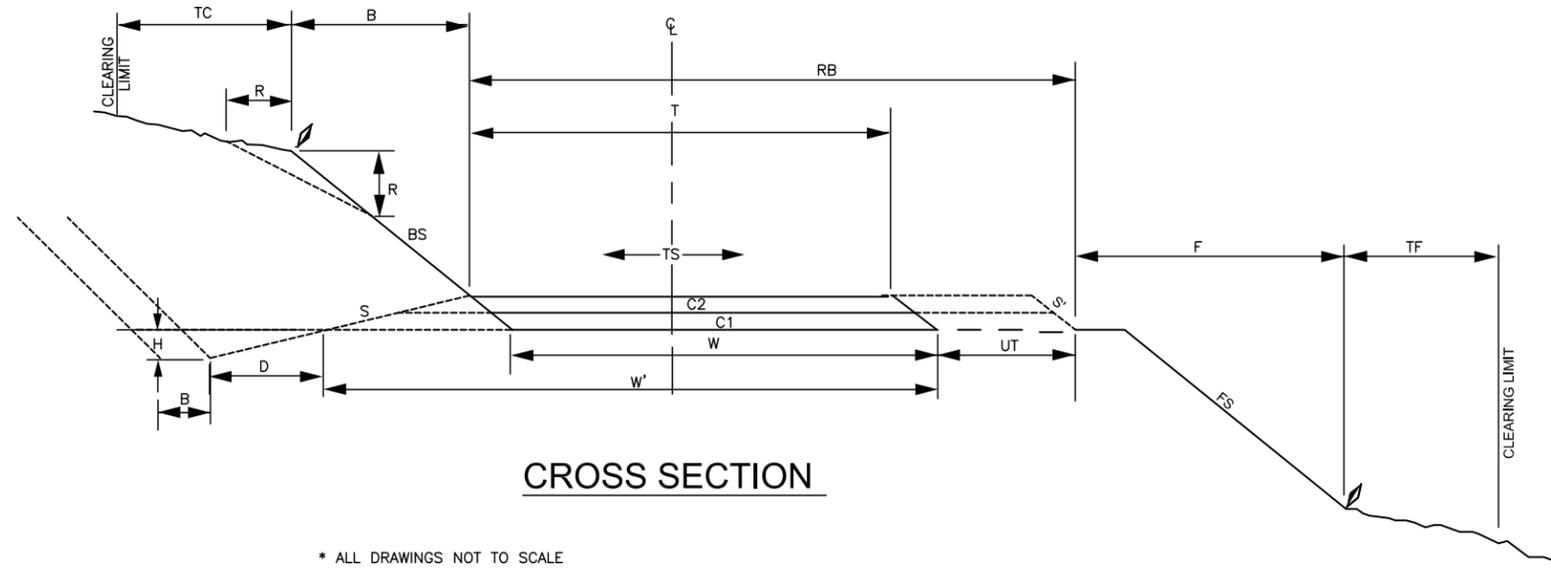


1 inch = 1,283 feet



MEADOW THIN STWD			PROJECT	SHEET		ESTIMATE OF QUANTITIES	Sheet No.	Total Sheets
			3430	3431	Remarks			
ROAD NUMBER			3430	3431	Payment will be made on actual work performed as described in FP-03 109.01 unless otherwise noted.			
PROJECT LENGTH (MILES)			2.326	2.446	* Denotes Contract Quantities			
ITEM NO.	DESCRIPTION	UNIT	QUANTITIES	QUANTITIES				
15101	Mobilization	LS	0	All	Traffic Control, equipment washing, fire prevention, and sign installations are included by indirect payment.			
15101X	Mobilization	LS	0	All	Traffic Control, equipment washing, fire prevention, and sign installations are included by indirect payment. For ERFO re-alignment site MP 0.3			
15201X	Construction survey and staking, method I, tolerance C	LS	0	All	Realignment site, sections 2, 3, 4, 7, & 9 and clearing limits from MP 0.097 to MP 0.422			
15713	Soil Erosion & Pollution Control	LS	All	All	Includes erosion control plan, temporary erosion control measures, and dewatering.			
20102	Clearing and grubbing	LS	All	All	Clearing and grubbing bridge approach repairs, waste areas, and Road 3431 MP 1.214 -2.446			
20104	Clearing and grubbing, disposal of tops and limbs (f(1)) ,(l), logs (i), stumps (f(1)) ,(l)	AC*	0	0.39	Clearing 10' beyond top of existing cut from 0.097 to 0.288 and 0.324 to 0.422. Scatter tops and limbs. Any surplus slash and stumps haul to Road 3431 waste area MP 1.320			
20104X	Clearing and grubbing, disposal of tops and limbs (f(1)) ,(l), logs (i), stumps (f(1)) ,(l)	AC*	0	0.41	Re-alignment site. Clearing 10' beyond top of proposed cut. MP 0.288 to 0.324. Scatter tops and limbs. Any surplus slash and stumps haul to Road 3431 waste area MP 1.320			
20253	Removal of individual trees, miscellaneous: disposal of tops & limbs f,j and logs i	EA	0	11	As marked by CO. Disposal of slash is scatter, if unable to scatter, haul to waste area Road 3431, MP 1.320			
20301	Removal of culvert	EA	6	5	Disposal method (a) Remove from project.			
20303	Removal of asphalt	SY*	857	20	Disposal method (a) Remove from project.			
20416	Waste, slide removal	CY*	0	250	See worklist, includes removal of contaminated aggregate.			
20419	Drainage excavation, type construct rocked ditchline	FT	2016	0	See worklist, includes outlet ditch at MP 1.385. Screened aggregate grading L. Includes excavation of ditch, haul of waste, and aggregate quantity.			
20420A	Drainage excavation, type rock sediment traps	EA	2	5	As staked by CO			
20420B	Drainage excavation, type catch basin	EA	1	2	See Drainage Listing			
20457	Roadway Excavation, compaction method E	CY*	14	14	Bridge Approach Repairs, top 1 foot of roadbed- all excavated material end hauled to waste areas			
20457X	Roadway Excavation, compaction method E	CY*	0	2256	Realignment site MP 0.288, - Unclassified excavation - all material end hauled to waste areas			
20968	Structural Excavation	CY*	100	100	Bridge Approach Repairs - all excavated material end hauled to waste areas			
209A06	Structural Excavation and Backfill	CY*	987	0	See Asphalt Schedule, geogrid indirect payment to this item.			
25550	Mechanically Stabilized Earth Wall	SF	168	168	Bridge Approach Repairs			
25101	Placed riprap, class 3	CY*	36	10	Commercial Source, dissipators.			
32203A	Aggregate base, grading A, compaction method B	CY*	104	278	Commercial Source, rock sediment traps, tapers for cobble surface segments, culvert and waste area surfacing, and waterbar placement. See worklists for locations.			
32203D	Aggregate base, grading D, compaction method B	CY*	421	284	Commercial Source, Bridge Approach Repairs, asphalt fill repairs, and shoulder rock. See worklists for locations.			
32218L	Screened aggregate grading L, compaction method E.	CY*	950	850	Commercial Source 6" minus open graded. See worklists for locations.			
32218LX	Screened aggregate grading L, compaction method E.	CY*	0	100	Commercial Source 6" minus open graded. See worklist for location. Re-alignment site.			
32218P	Screened aggregate grading P, compaction method E.	CY*	25	440	Commercial Source 3" minus open graded. See worklists for locations.			
32218R	Screened aggregate grading R, compaction method E.	CY*	220	210	Commercial Source 2" minus open graded. Leveling course for cobble surface. See worklists for locations. Includes Road 3431, MP 0.288 - 0.324.			
40451	ODOT 1/2-inch dense graded HMAc, Level II, asphalt cement PG 64-22.	Ton	197.10	38.60	See Asphalt Schedule.			
60209A	Elbow 18" Flex	EA	2	0				
60209B	Elbow 24" Flex	EA	0	4				
60276A	18 inch corrugated polyethylene pipe, method B, type S	FT	62	0				
60276B	24 inch corrugated polyethylene pipe, method B, type S	FT	136	160				
60506	6 inch collector pipe	FT	130	0	Underdrain installation, see detail. Schedule 80 pipe. Trenching, aggregate, and geotextile indirect payment to this item.			
60507	6 inch outlet pipe	FT	20	0	Schedule 80 outlet pipe for underdrain installation, from ditchline road shoulder. Trenching, clearing, and grubbing, indirect payment to this item. Extend outlet 6" beyond fill slope.			
60604	Anchor, assemblies	EA	4	8				
60654A	18-inch full circle polyethylene outlet pipe, type C	FT	30	0				
60654B	24-inch full circle polyethylene outlet pipe, type C	FT	0	60				
62509	Mulching, dry method	LS	All	All	Mulch all disturbed soil with weed free straw. Exclude sites covered by Item 62529X			
62529X	Seeding, and Mulching, bonded fiber matrix hydromulch hydraulic method.	AC*	0	0.70	Realignment site and MP 0.456 Waste Area. Government Furnished Seed.			

Pay items with an X suffix are funded thru ERFO, (Emergency Relief for Federally Owned Roads), program.



CROSS SECTION

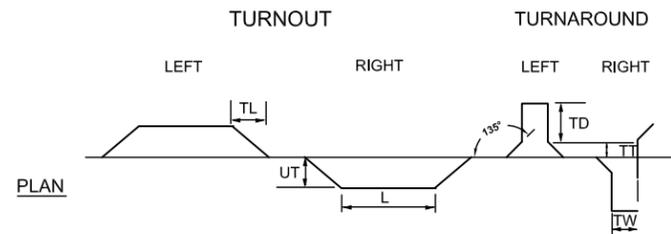
* ALL DRAWINGS NOT TO SCALE

ROAD NUMBER	STATION or MILEPOST TO STATION or MILEPOST	TRAVELED WAY WIDTH FT	CLEARING				CONSTRUCTION TOLERANCE	GRADING										ROAD STRUCTURE				SHOULDER ROCK											
			WHICHEVER IS GREATER FT					OUTSLOPE (O) INSLOPE (I) CROWN (C) %	ROADBED WIDTH FT			DITCH DIMENSIONS FT			TURNOUT			TURN AROUND			GRADATION		COMPACTED DEPTH IN		SLOPE RATIO		DEPTH IN	SLOPE RATIO	WIDTH FT	GRADATION			
			MINIMUM BEYOND SHOULDER	BEYOND SLOPE STAKE					W	W'	B	D	H	UT	TL	L	TT	TW	TD	C1	C2	C1	C2	S	S'								
				TC	TF	TS																				W					W'	B	D
3430	SEE WORKLIST	**					C	C-6	**	0	2	1	EX	EX	EX	**	**	**	**	**	**	**	**	**	**	**	4	1V:2H	1V:2H	4	1V:2H	0	D
3431	SEE WORKLIST	**	**	**	**		C	C-6	**	0	2	1	EX	EX	EX	**	**	**	**	**	**	**	**	**	**	**	4	1V:2H	1V:2H	4	1V:2H	0	D

GENERAL NOTES

- CURVE WIDENING, TURNOUTS AND TURNAROUNDS - SURFACE TO THE SAME DEPTH AS THE ROADBED UNLESS OTHERWISE SHOWN ON THE PLANS.
- EX = MATCH EXISTING DIMENSIONS.
- MAINTAIN EXISTING SUPER ELEVATION AND SLOPE OF ROAD. CREATE SMOOTH TRANSITIONS TO EXISTING ROAD SURFACE AND PRISM.
- ONE FOOT FILL WIDENING FOR FILLS 0' - 5' HEIGHT, TWO FOOT FILL WIDENING FOR FILLS GREATER THAN 5' IN HEIGHT. FILL SLOPE RATIO 1 1/2: H. : 1 V., CUT SLOPE RATIO 1:1.
- ** = SEE WORKLIST FOR AGGREGATE GRADATIONS, WIDTHS AND DEPTHS, AND CLEARING DIMENSIONS. CO WILL STAKE ASPHALT WIDTHS.
- *** = HMAC (HOT MIX ASPHALT CONCRETE).
- WRITTEN APPROVAL REQUIRED FOR PLACEMENT OF AGGREGATE AND HMAC.
- BLASTING, IF NEEDED AND APPROVED BY CO, PERMITTED BETWEEN OCTOBER 1 THRU FEBRUARY 28.

TURNOUT AND TURNAROUND SYMBOLS



ABBREVIATIONS			
*	Contract quantities	FW	Full width
AC	Acre	LS	Lump Sum
CMP	Corrugated metal pipe	MI	Mile
CPP	Corrugated plastic pipe	MI	Mile
CWLT	Curve widening left	SF	Square Foot
CWRT	Curve widening right	SY	Square yard
CY	Cubic Yards	TOLT	Turnout left
EA	Each	TORT	Turnout right
FT	Foot		

MEADOW THIN STWD

PROJECT

SHEET

DRAINAGE LISTING

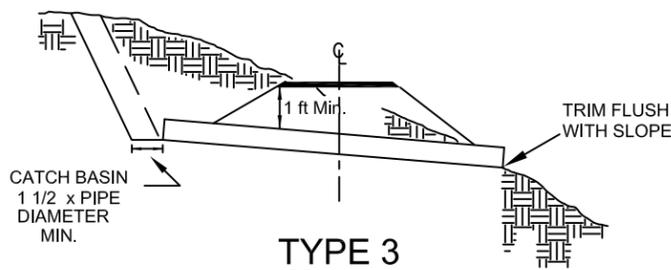
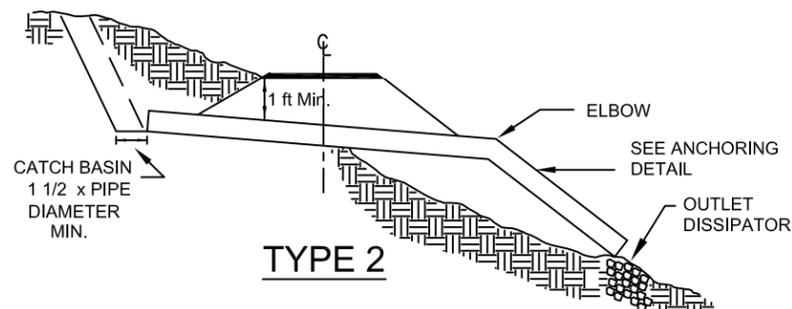
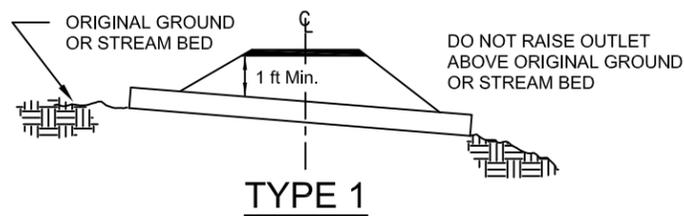
Sheet
No.
5

Total
Sheets
17

Designed												Installation Details				Riprap - CY				Remarks				
MP	Plastic Pipe		Plastic Spillway			Corrugated Metal Pipe		Corrugated Metal Spillway			Installation Type (1, 2, or 3)	Grade (%) *	Skew (deg)	# of Anchor Assemblies	Plastic Spillway Connection		Hand Placed		Machine Placed		Dumped			
	Diameter (in)	Length (ft)	Diameter (in)	Length (ft)	Full Circle	Diameter (in)	Length (ft)	Diameter (in)	Length (ft)	Full Circle					Half Round	Flex	Elbow	Inlet CY	Outlet CY	Inlet CY	Outlet CY	Inlet CY	Outlet CY	
Road 3430																							EX = Existing CMP = Corrugated Metal Pipe CPP = Corrugated Plastic Pipe Construct bench for riprap placement for outlets prior to placement	
																							* = Minimum 5%. If greater than 7%, then equal to or greater than grade of lead in ditch. Invert of <u>outlet flush</u> with fillslope.	
0.534	18	32	18	10							2	EX	EX	2	X					2				
0.558	18	30	18	20							2	EX	EX	2	X					2				
1.118	24	36									3	EX	EX						2	5			Shift inlet 2' towards cutslope.	
1.135	24	34									3	EX	EX						6	6			Excavate catch basin and ditchline 50' each side of inlet	
1.385	24	30									2	EX	EX						3	6			Construct 20' rocked outlet ditch to edge of creek	
2.360	24	36									3	-5	EX						1	3				
<i>subtotals</i>	18	62		30											4					12	24			
	24	136																						
Road 3431																								
0.269	24	30	24	10							2	-5	EX	2	X					2				Construct catch basin
0.324	24	30	24	10							3	-6	EX	2	X					2				Construct catch basin
0.414	24	40									3	*	EX							2				
1.540	24	30	24	20							2	*	EX	2	X						2			
1.850	24	30	24	20							2	*	EX	2	X						2			
<i>subtotals</i>		160		60											8						10			

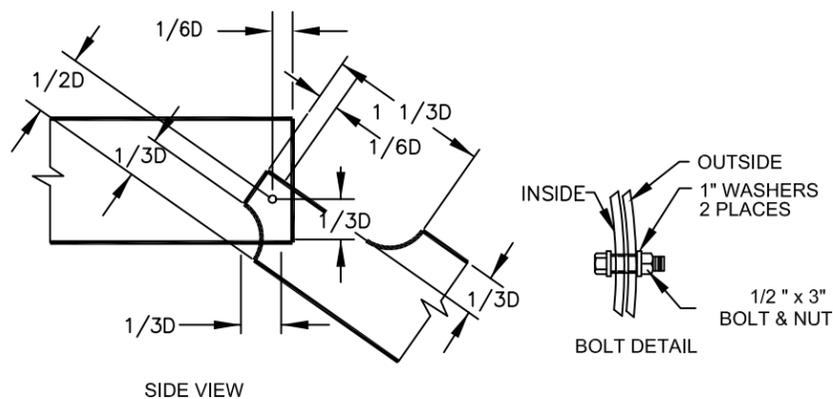
Pipe Corrugations shall be 2.7 in x 0.47 in unless otherwise shown or approved in writing by the C.O.

CULVERT INSTALLATION TYPES

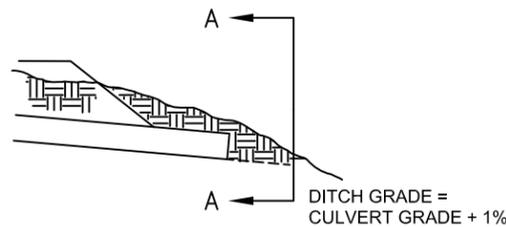


Culvert invert - The lowest interior elevation of the culvert at any selected point.

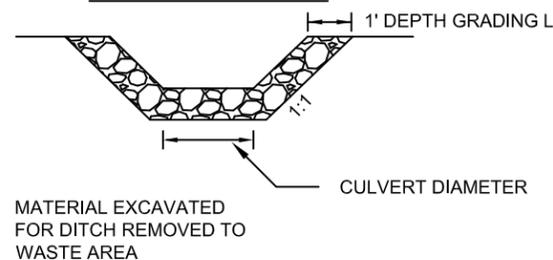
FLEX ELBOW



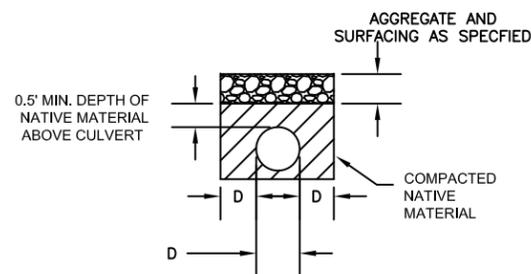
OUTLET DITCH



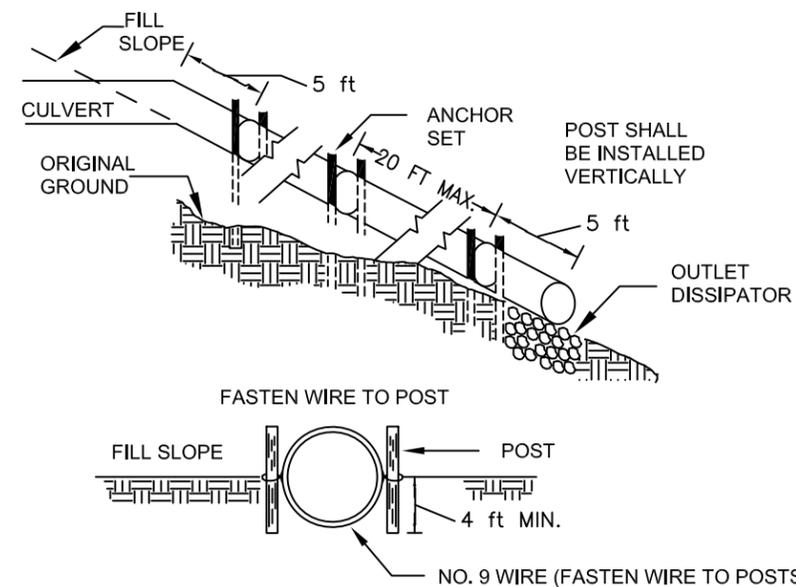
SECTION A-A



CULVERT INSTALLATION DETAIL

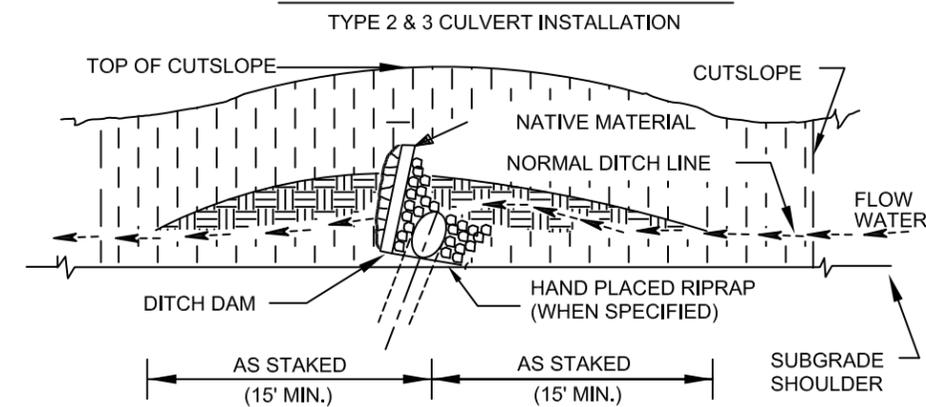


ANCHOR DETAILS

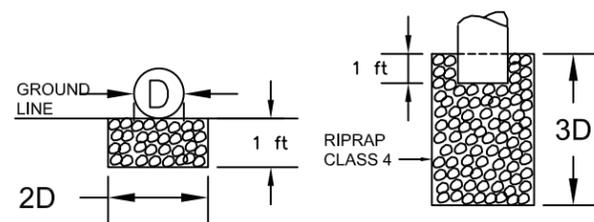


NOTE:
3 FT DIAMETER AND LARGER DOWNPIPE SHALL BE HALF BURIED.
ANCHOR SETS SHALL CONSIST OF TWO 6 FT STEEL FENCE POSTS (AASHTO M 281) AND NO. 9 GALVANIZED WIRE. 3 STRANDS OF WIRE SHALL BE TWISTED TOGETHER AND ENCOMPASS THE ENTIRE CIRCUMFERENCE OF THE PIPE.

DITCH DAM PLAN VIEW

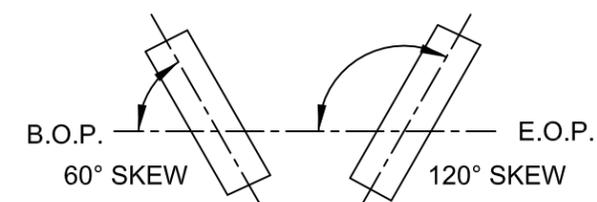


OUTLET DISSIPATOR DETAIL



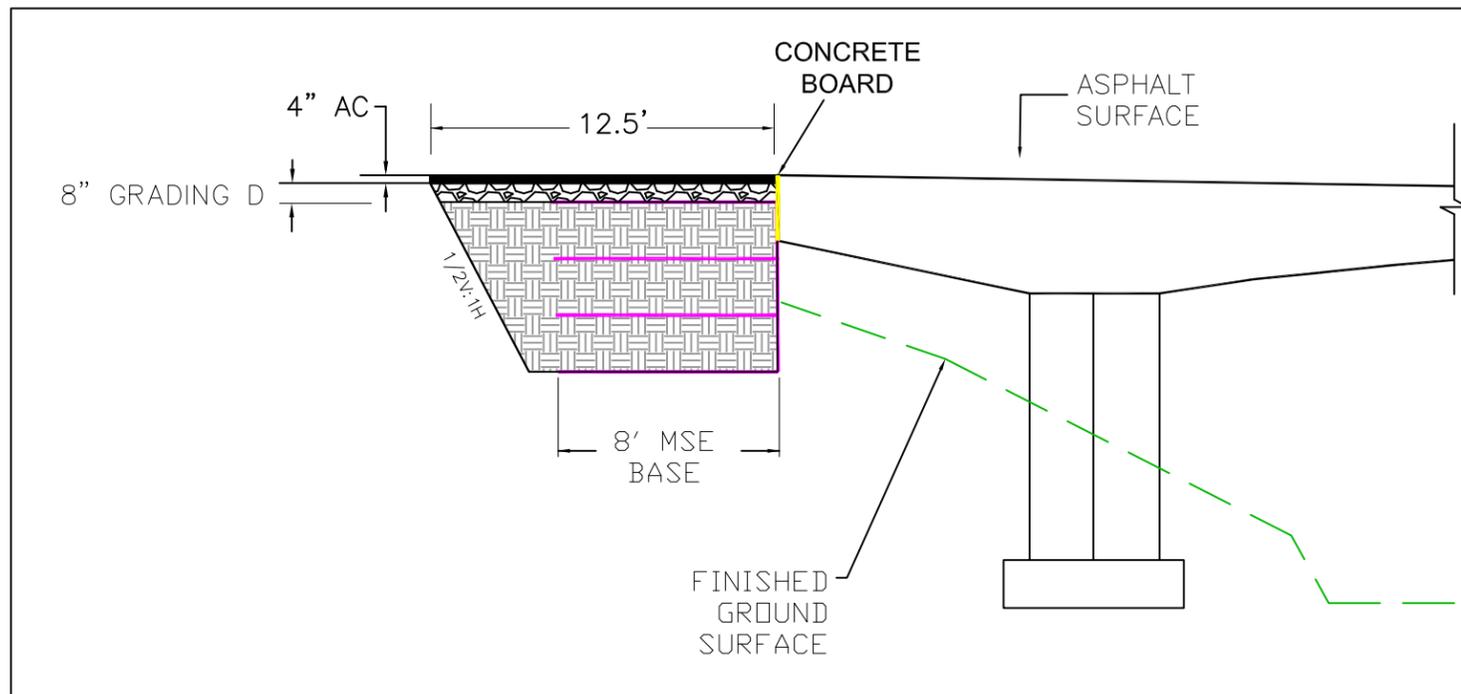
APRON SURFACE MUST CONFORM TO SHAPE OF EXISTING GROUND AND BE LEFT ROUGH TO REDUCE WATER VELOCITY.

SKIEW DIAGRAM

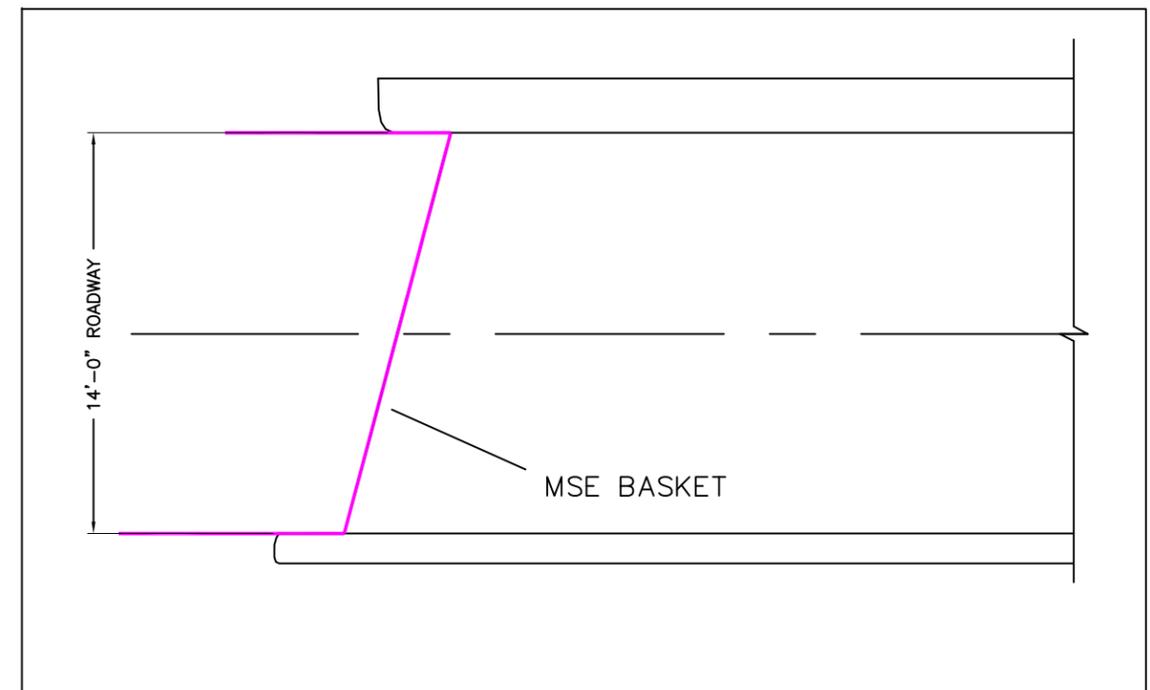


B.O.P. = BEGINNING OF PROJECT
E.O.P. = END OF PROJECT

ELEVATION VIEW



PLAN VIEW



- MSE BASKET = 
- STRUCTURAL EXCAVATION/BACKFILL = 
- ROADWAY EXCAVATION/AGGREGATE BASE = 
- ASPHALT = 

NOTES:

INSTALL MSE RETAINING WALLS PER MANUFACTURERS STANDARD DETAILS. WALL LENGTH WILL VARY DEPENDING ON BRIDGE GEOMETRY AND APPROACH RAILING GEOMETRY.

DESIGN 6' HIGH X 14' WIDE.

INSTALL 1/2" THICK CEMENT BOARD BETWEEN MSE BASKET AND CONCRETE SURFACE.

DURING REPAIR ROAD MAY BE CLOSED FOR UP TO 1/2 HOUR WHEN TRAFFIC IS PRESENT.

STEEL PLATES TO BE ON SITE TO ALLOW TRAFFIC PASSAGE AS NEEDED.

ROAD 3431 - ADJUST INSTALLATION TO MATCH BRIDGE SKEW.

MSE WALL= MECHANICALLY STABILIZED EARTH WALL

PLACE GRADING D AGGREGATE FOR STRUCTURAL BACKFILL, QUANTITY UNDER ITEM 32203D

STEP 1

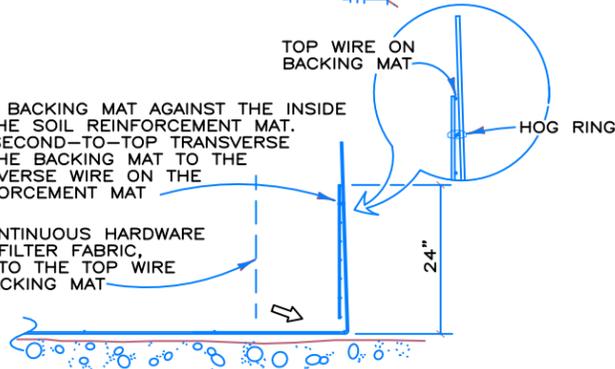
PLACE THE FIRST COURSE OF SOIL REINFORCEMENT MATS ON PREPARED FOUNDATION



STEP 2

PLACE THE BACKING MAT AGAINST THE INSIDE FACE OF THE SOIL REINFORCEMENT MAT. CLIP THE SECOND-TO-TOP TRANSVERSE WIRE ON THE BACKING MAT TO THE TOP TRANSVERSE WIRE ON THE SOIL REINFORCEMENT MAT

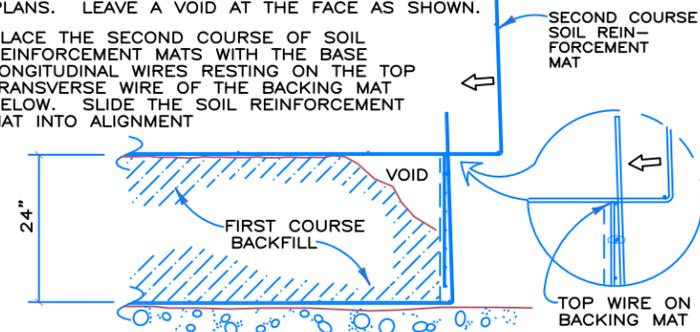
INSTALL CONTINUOUS HARDWARE CLOTH OR FILTER FABRIC, HOG-RING TO THE TOP WIRE ON THE BACKING MAT



STEP 3

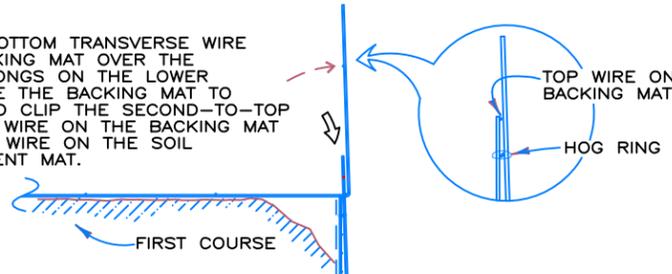
PLACE AND COMPACT THE BACKFILL IN LAYERS AND DENSITIES AS SPECIFIED IN THE PROJECT PLANS. LEAVE A VOID AT THE FACE AS SHOWN.

PLACE THE SECOND COURSE OF SOIL REINFORCEMENT MATS WITH THE BASE LONGITUDINAL WIRES RESTING ON THE TOP TRANSVERSE WIRE OF THE BACKING MAT BELOW. SLIDE THE SOIL REINFORCEMENT MAT INTO ALIGNMENT



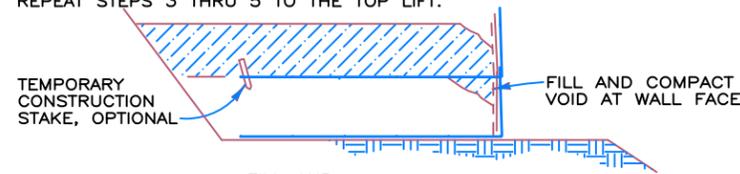
STEP 4

HOOK THE BOTTOM TRANSVERSE WIRE OF THE BACKING MAT OVER THE VERTICAL PRONGS ON THE LOWER MAT. ROTATE THE BACKING MAT TO VERTICAL AND CLIP THE SECOND-TO-TOP TRANSVERSE WIRE ON THE BACKING MAT TO THE TOP WIRE ON THE SOIL REINFORCEMENT MAT.



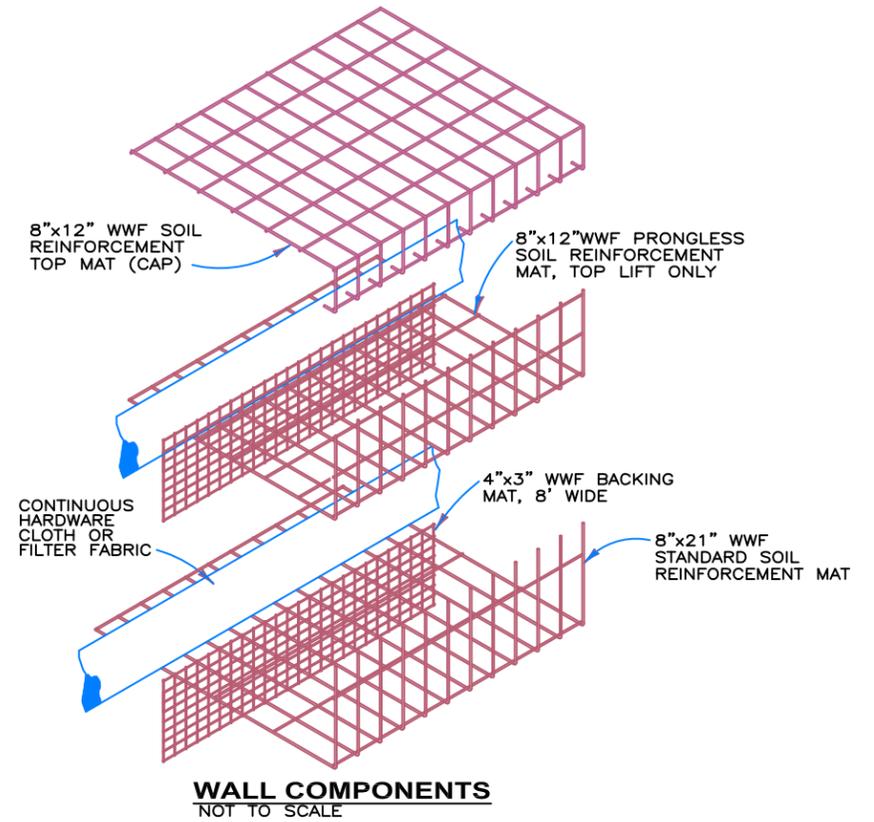
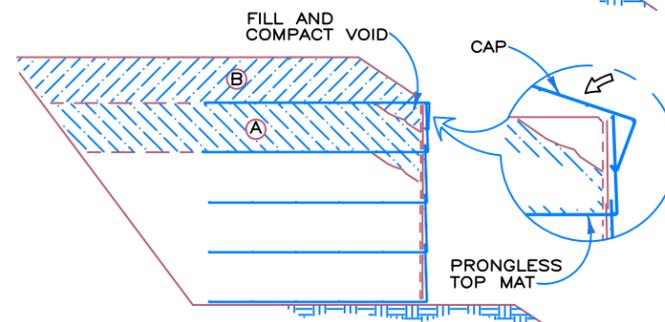
STEP 5

INSTALL THE HARDWARE CLOTH OR FILTER FABRIC. PLACE AND COMPACT THE BACKFILL TO THE BASE ELEVATION OF THE NEXT MAT. REPEAT STEPS 3 THRU 5 TO THE TOP LIFT.

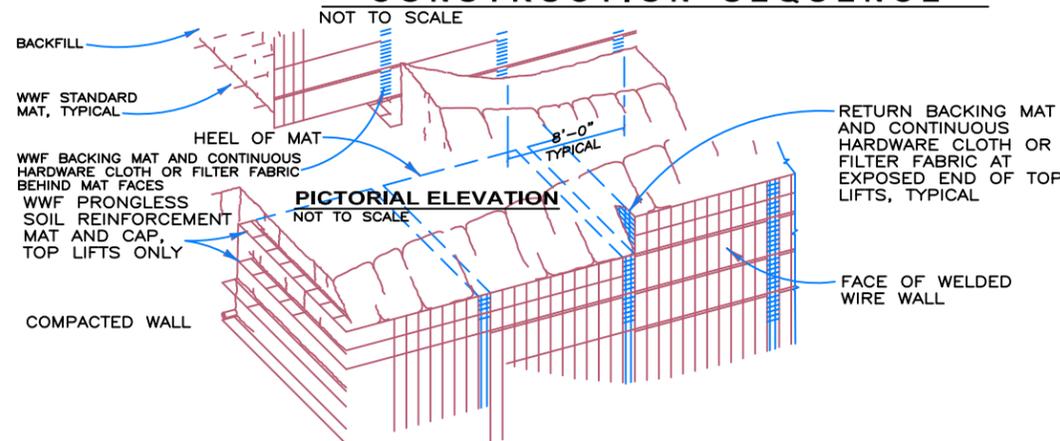


STEP 6: TOP LIFT

PLACE THE TOP LIFT PRONGLESS MAT, BACKING MAT AND HARDWARE CLOTH OR FILTER FABRIC. PLACE AND COMPACT BACKFILL IN AREA "A" HOOK THE CAP OVER THE MIDDLE TRANSVERSE WIRE ON THE PRONGLESS MAT, AND ROTATE INTO PLACE. BACKFILL "B" TO 1'-6" MINIMUM COVER OVER THE CAP.



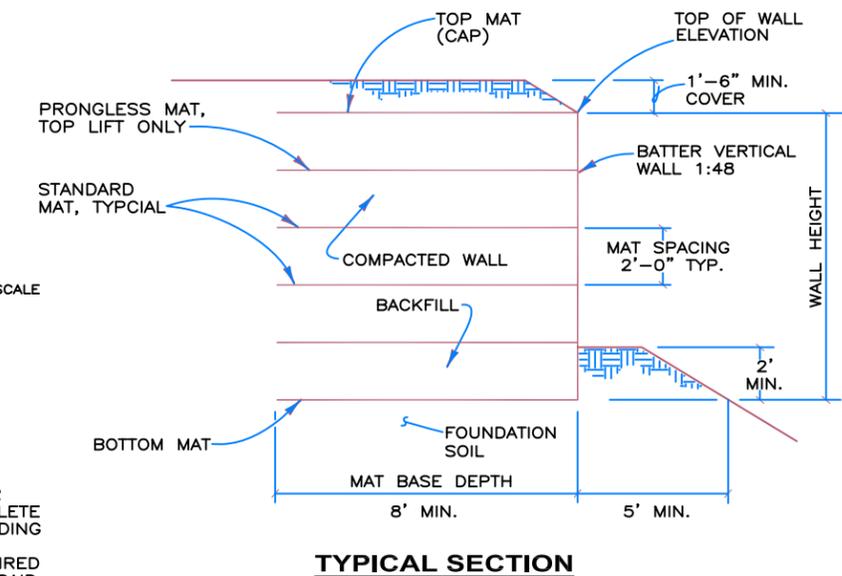
CONSTRUCTION SEQUENCE

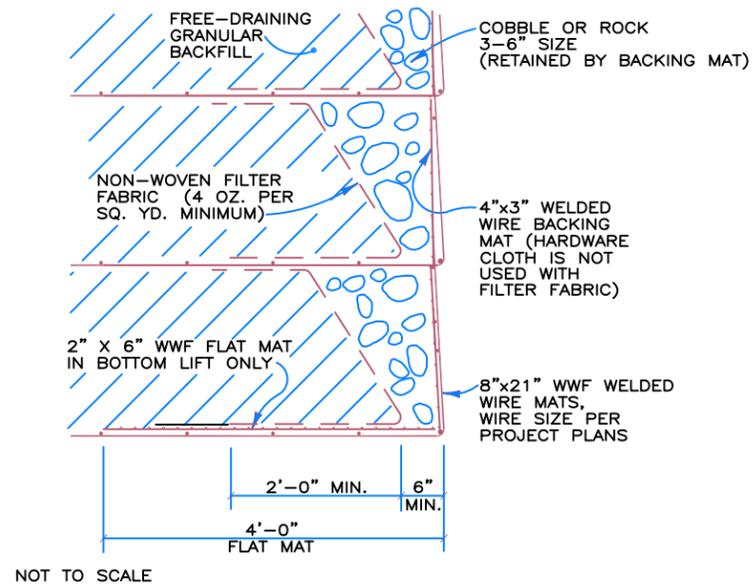
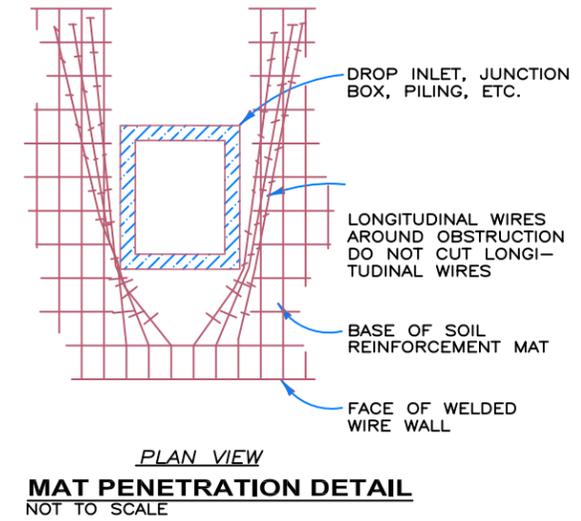
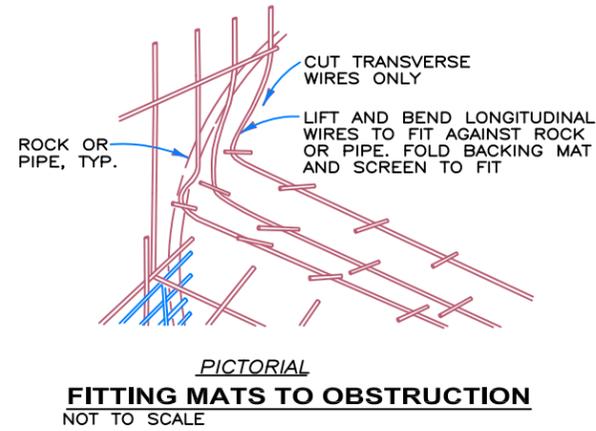
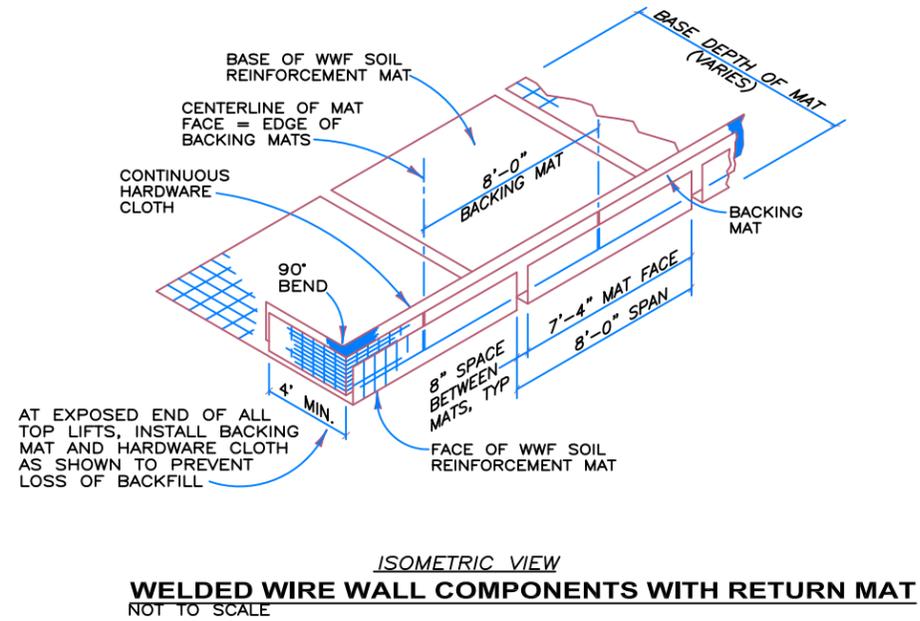


NOTES:

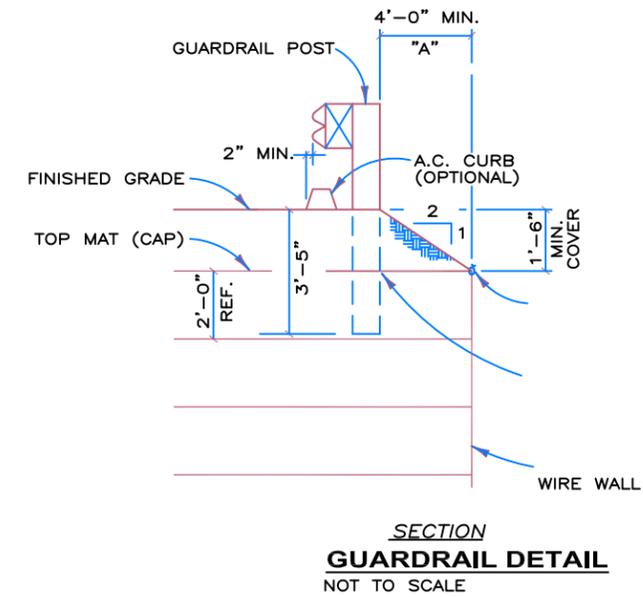
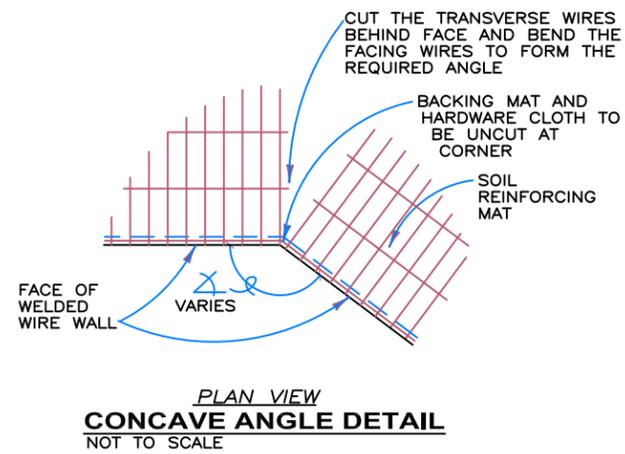
1. WALL SYSTEM IS HILFIKER WELDED WIRE WALL OR EQUAL. PAYMENT FOR ITEM 25550 IS FOR THE COMPLETE MECHANICALLY STABILIZED EARTH WALL SYSTEM INCLUDING EXCAVATION IN SOIL AND BEDROCK, ALL BACKFILL MATERIALS, AND THE UNDERDRAIN SYSTEM. THE REQUIRED AGGREGATE BASE AND HOT ASPHALT CONCRETE ARE PAID UNDER SEPARATE PAY ITEMS.

2. WWF= WELDED WIRE FABRIC





NOTE: THIS DETAIL IS TO BE USED ONLY AT STREAMBED INSTALLATION. NOT REQUIRED FOR THIS PROJECT.



ASPHALT SCHEDULE

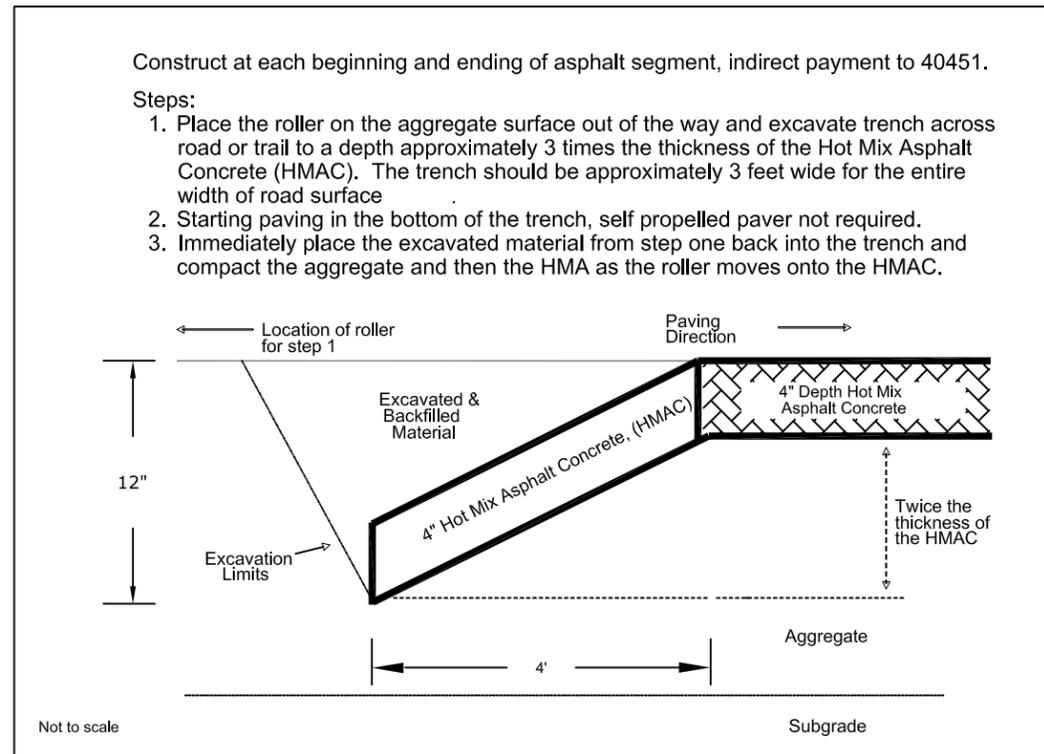
Sheet
Number
10

Total
Sheets
17

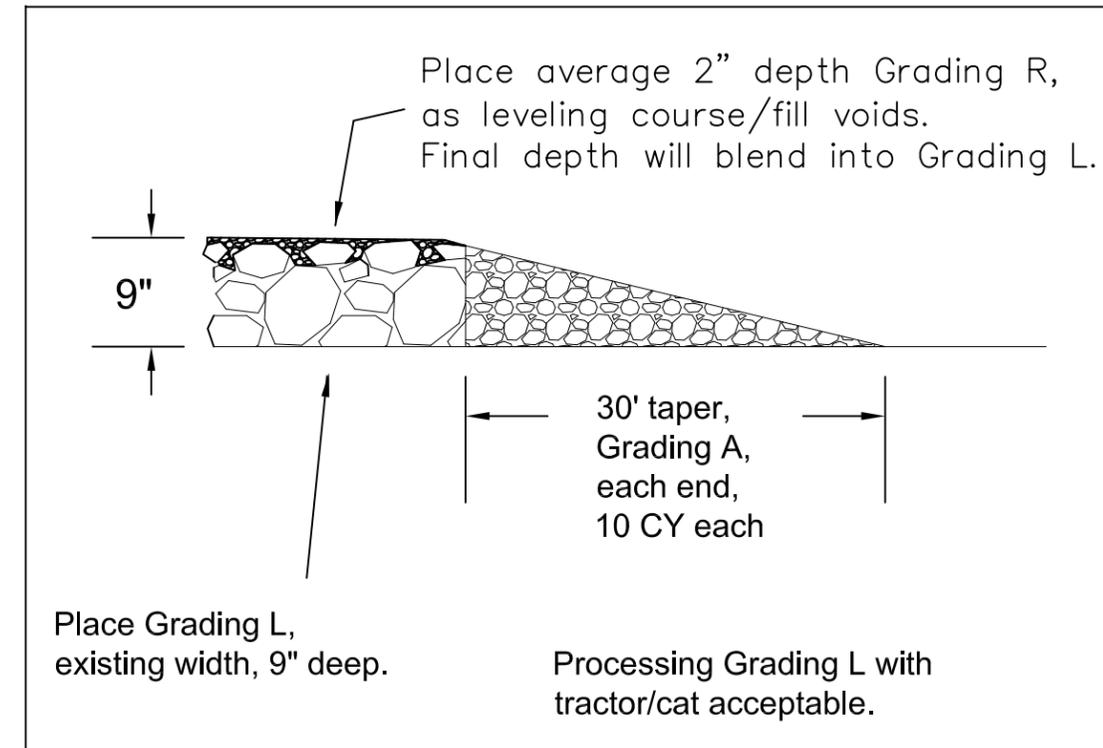
ROAD / MILEPOST	FILL REPAIR TYPE (A, B, C)	ASPHALT CUT DIMENSIONS OR SKIN PATCH DIMENSIONS		ROADBED EXCAVATION DIMENSIONS			ITEM 20301	ITEM 20457 AND 209A06	ITEM 20968	GEOGRID (sy)	ITEM 32203D	ITEM 40451
	or BRIDGE APPROACH (BA)	AVE. WIDTH (ft)	LENGTH (ft)	{REW} WIDTH (ft)	LENGTH (ft)	{ED} DEPTH (ft)	ASPHALT EXCAVATION (sy)	ROADBED EXCAVATION (cy) *	STRUCTURAL EXCAVATION (cy) *		GRADING D CRUSHED AGGREGATE (cy)	HOT A.C. PLANT MIX (tons)
3430												
0.000	BA	14.5	12.5	14.5	12.5	7.5	20	7	50		57	4.6
0.050	BA	14.5	12.5	14.5	12.5	7.5	20	7	50		57	4.6
0.468	B	14.5	415	15	413	3	669	814		2,221	186	153.9
0.554	B	14	95	14	93	3	148	173		477	41	34.0
SUB TOTALS							857	1001	100	2,698	341	197.1
3431												
0.059	BA	14.5	12.5	14.5	12.5	7.5	20	7	50		57	4.6
0.072	BA			14.5	12.5	7.5	0	7	50		57	
Asphalt lift												
0.072-0.090		14	95								160	34.0
SUB TOTALS							20	14	100	0	274	38.6

{REW} = Corresponds to fill repair detail
 {ED} = Corresponds to fill repair detail
 * Calculations for fill repairs include 2' average shoulder and 1 1/2 : 1 fill slope
 Lengths and widths shown are "NOMINAL" Field dimensions may vary.
 Geogrid indirect to Item 209A06.

ASPHALT TRANSITION DETAIL ROAD 3431 MP 0.090



COBBLE SURFACE DETAIL ROADS 3430 & 3431



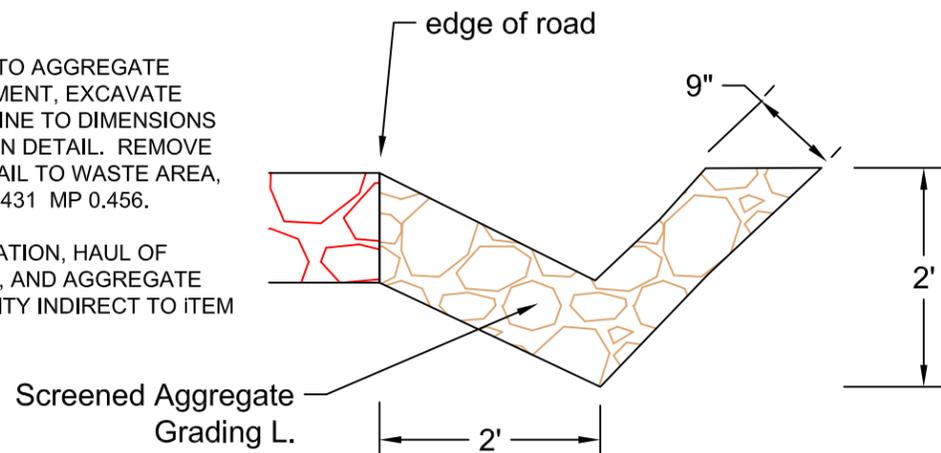
STAKING DETAILS— ROAD 3431 ITEM 15201X

- 1) Pre-paint the top 2-inches of all stakes with fluorescent orange.
- 2) Mark all stakes with a stake pencil that leaves a legible imprint, or with waterproof ink.
- 3)– Furnish wooden stakes with the nominal dimensions of 3/8" x 1-3/4" x 48" for slope stakes, reference stakes, and sight lath.
- 4) Furnish wooded hubs for RP, nominal dimensions of 1" x 2" x 16". Hubs required for RP on right.
- 5) Establish RP on right side only, place sight lath 10' minimum behind RP.
- 6) Use fluorescent pink ribbon for clearing limits.

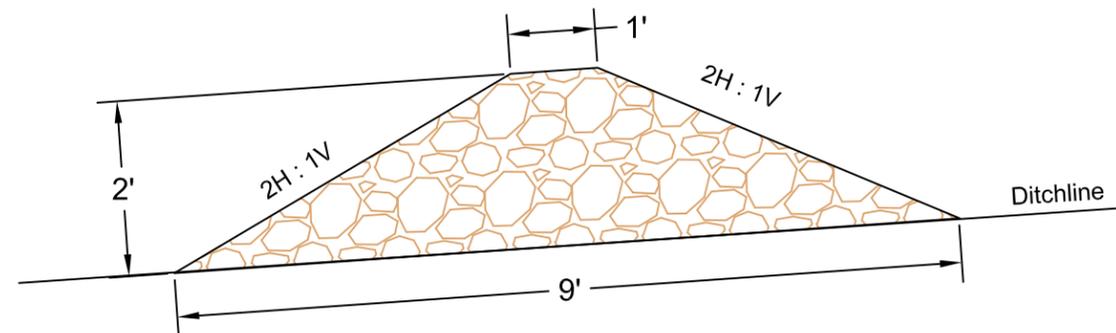
ROCK DITCH DETAIL - ROAD 3430

NOTES:

1. PRIOR TO AGGREGATE PLACEMENT, EXCAVATE DITCHLINE TO DIMENSIONS SHOW IN DETAIL. REMOVE MATERIAL TO WASTE AREA, ROAD 3431 MP 0.456.
2. EXCAVATION, HAUL OF WASTE, AND AGGREGATE QUANTITY INDIRECT TO ITEM 20419.



ROCK SEDIMENT TRAP DETAIL ROAD 3430, 3431



CO will stake locations. Construct from Grading A aggregate, average 1.5 CY per trap.

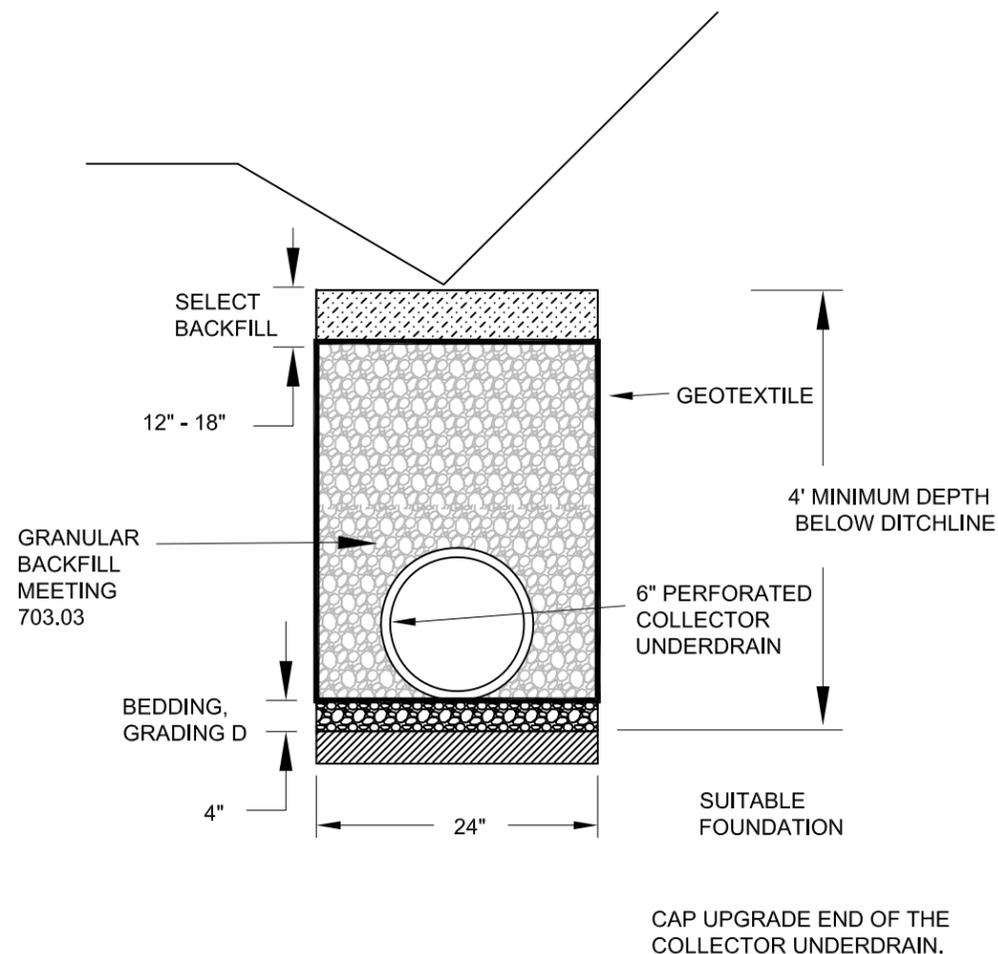
UNDERDRAIN DETAILS ROAD 3430 MP 0.468

NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION
2. **FOUNDATION:** WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE CO AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE CO. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE CO, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
3. **BEDDING:** AGGREGATE, GRADING D.
4. **GEOTEXTILE:** AFTER BEDDING IS INSTALLED, FULLY ENCOMPASS TRENCH WITH GEOTEXTILE, TYPE 2A SEPARATION,

UNDERDRAIN OUTLET NOTES:

1. COVER OUTLET WITH GALVANIZED HARDWARE CLOTH, 1/2 " OPENINGS, SECURED WITH STAINLESS STEEL HOSE CLAMP, INDIRECT TO ITEM 60507.



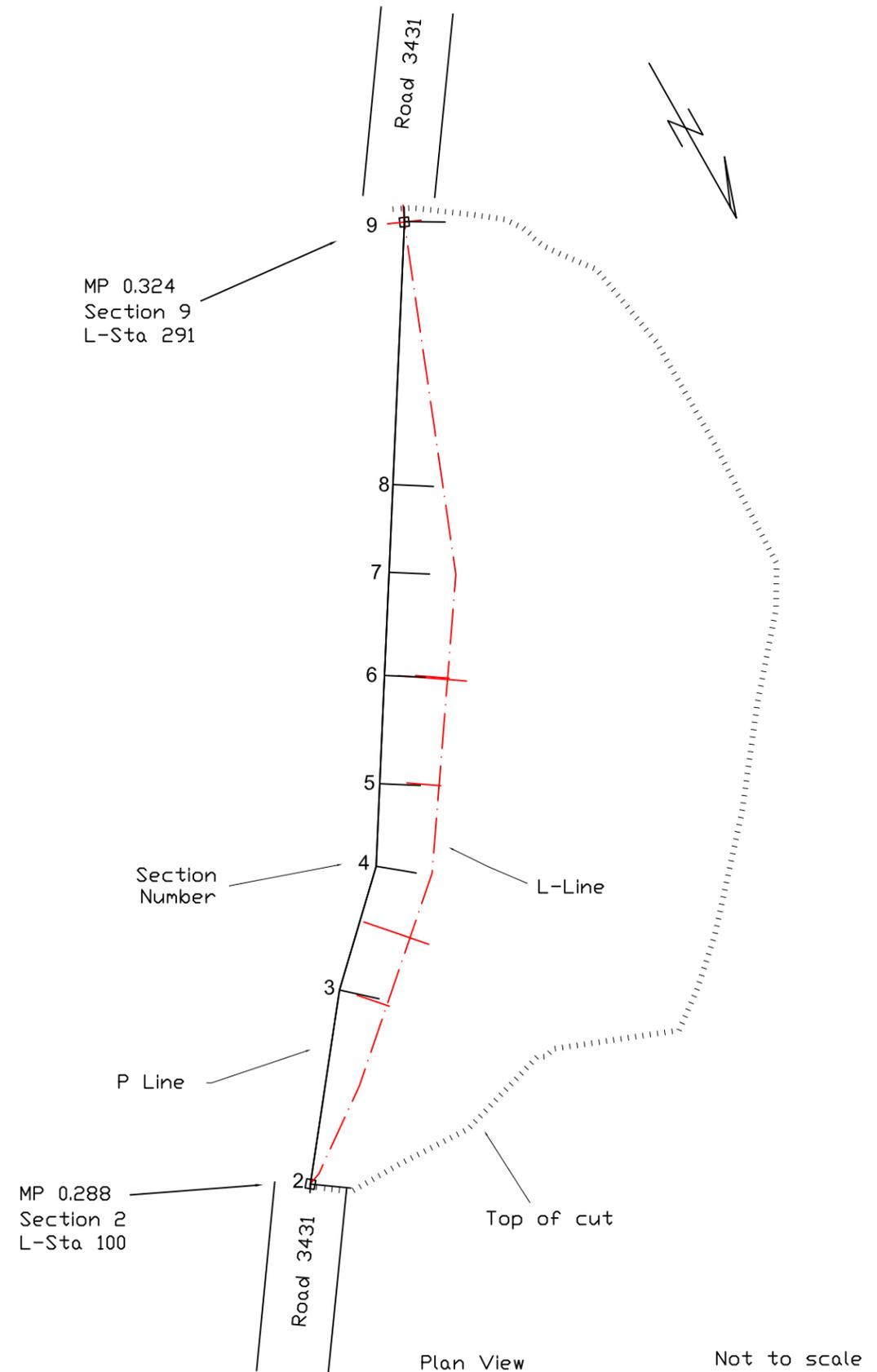
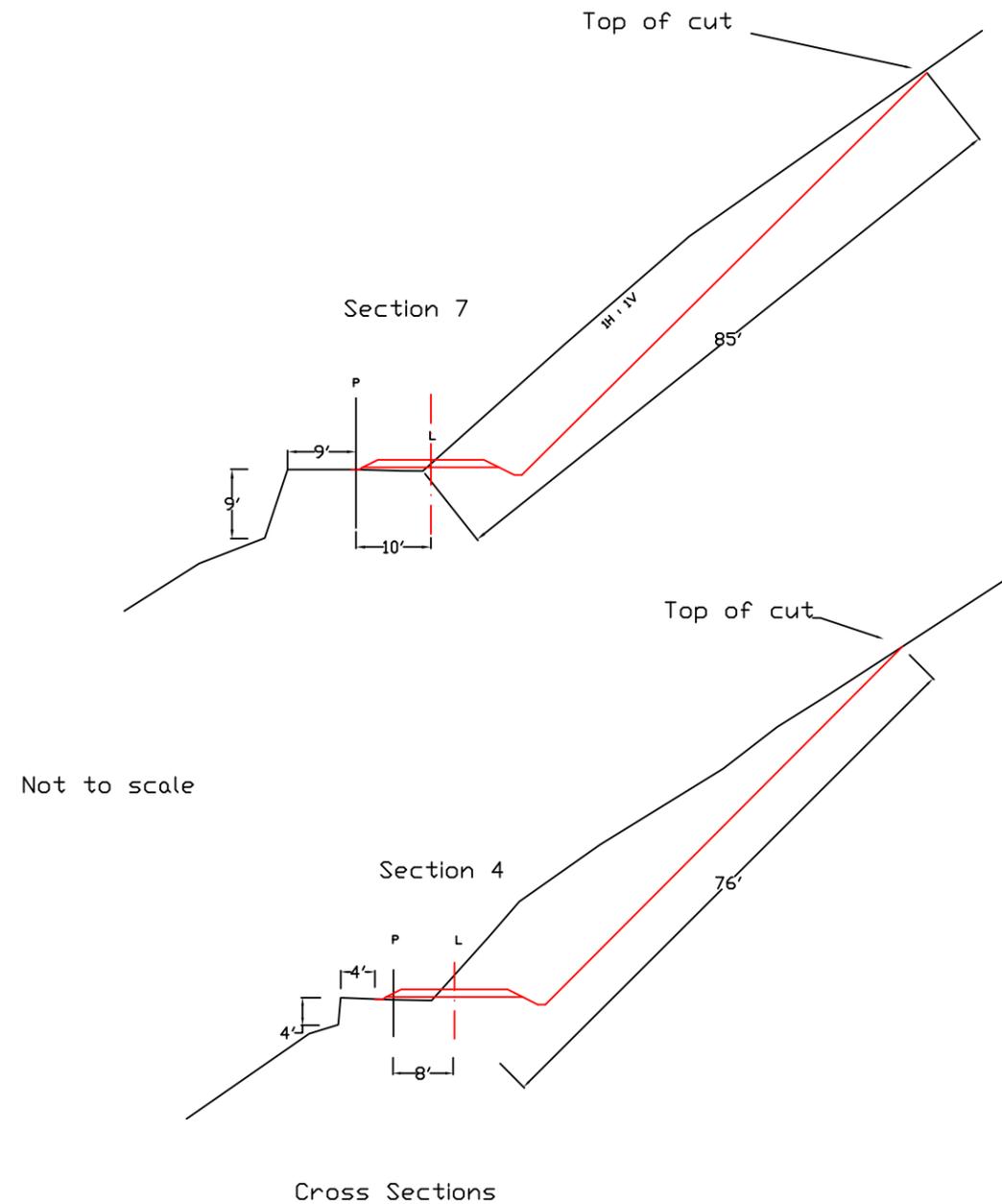
CAP UPGRADE END OF THE COLLECTOR UNDERDRAIN.

Notes - Install rock sediment traps between Section 2 to Section 9, spaced approximately every 40', as staked by CD. For detail on traps, See Sheet **UNDERDRAIN, ROCK DITCH, AND ROCK SEDIMENT TRAP DETAILS**.

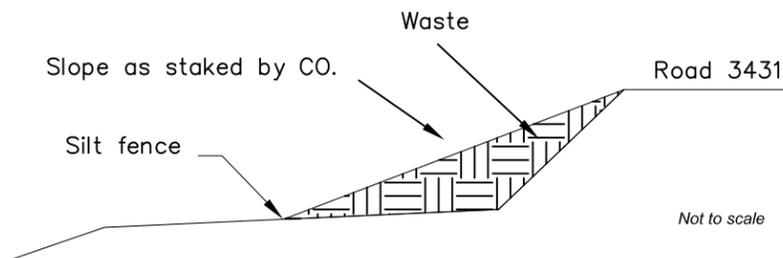
Clearing limits are 10 feet, (slope distance), beyond top of cut. For staking details, see Sheet **ASPHALT TRANSITION, COBBLE SURFACE, AND STAKING DETAILS**.

Construct ditch 1' deep, 1' wide at bottom thru re-alignment.

Cut slope 1H : 1V, unless solid rock encountered.



WASTE AREA DETAILS
ROAD 3431 - MP 0.456



GENERAL NOTES

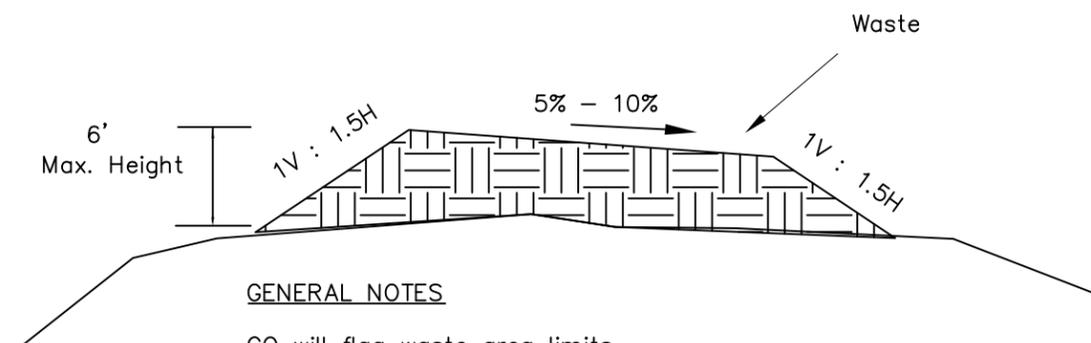
CO will flag waste area limits, (edge of blackberries). Scalp all vegetation and bury within waste area limits, 2' minimum cover, prior to placement of material. Soil to be placed free of slash and rocks larger than 2' in diameter.

Install silt fence on perimeter of waste area, except along Road 3431 prior to placement.

Layer place, equipment compact material. No rocks larger than 6" in diameter to remain on completed surface.

Hydromulch completed site.

WASTE AREA DETAILS
ROAD 3431 - MP 1.290, 2.070, 2.466



GENERAL NOTES

CO will flag waste area limits

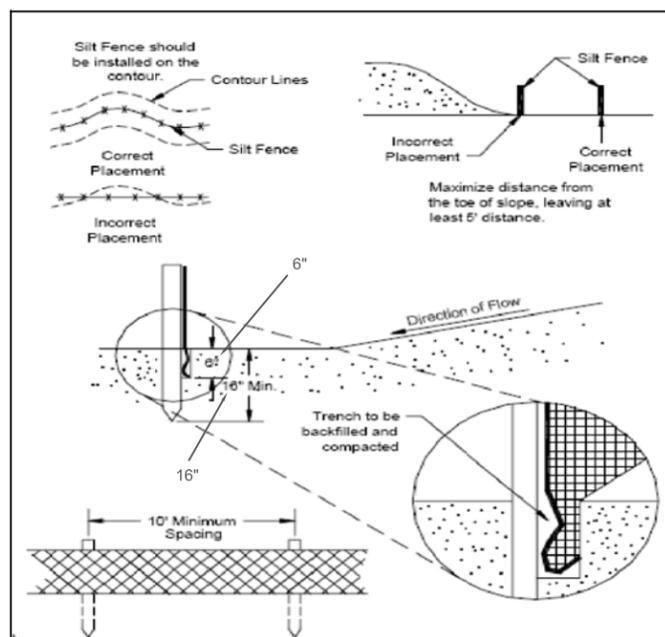
Layer place, equipment compact material.

Place weed free straw mulch on completed waste area, 2" minimum depth, Item 62509.

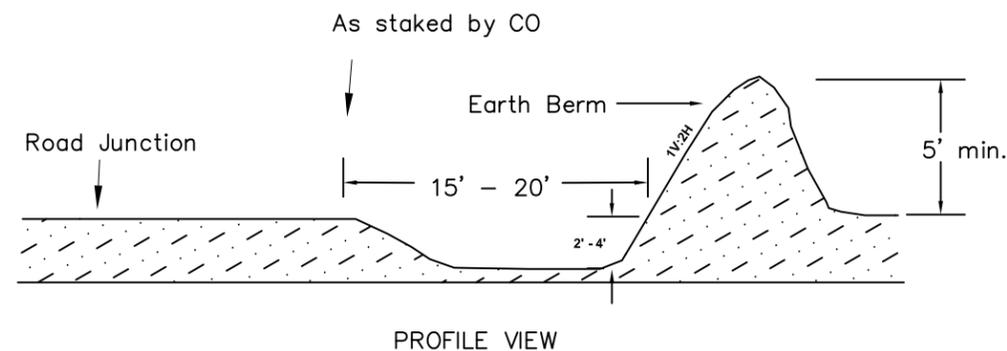
MP 1.290 - clear site of vegetation, place in windrow along bottom of waste area, other waste areas, scatter slash, Item 20102.

Not to scale

SILT FENCE DETAILS



BERM DETAIL FOR ROAD 3431, MP 1.320



Note - width of earth berm, as staked by CO, minimum 20', maximum 45'.

Not to scale

3430 Worklist

SHEET NO. 15	TOTAL SHEETS 17
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<u>MP</u>	<u>Work Item</u>	<u>MP</u>	<u>Work Item</u>
	Jct Hwy 34, MP 16.5 Thissell Road, FSR 3430	0.866	Remove debris from culvert inlet, indirect to Pay Item 15713.
0.000	Begin project, paved surface		
	Bridge approach repair, see detail.	1.121	Begin cobble surface, begin rocked ditchline, see details. Pay Items 20419, 32203A, 32218L, 32218R.
	Pay Items 20303, 20457, 20968, 25550, 32203D, 40451.		
		1.126	Replace existing CMP, install CPP. Compact loose material under culvert bed from piping failure, indirect to Item 60276B. Pay Items 20301, 25101, 60276B.
0.050	Bridge approach repair, see detail.		
	Pay Items 20303, 20457, 20968, 25550, 32203D, 40451.		
		1.135	Replace existing CMP, install CPP. Construct catchbasin, and excavate ditchline for 50 feet either side of inlet, shape to drain, indirect to Item 20420B.. Pay Items 20301, 20420B, 25101, 60276B.
0.073	Reference point - Easter Valley Road right		
		1.149	End cobble surface, end rocked ditchline.
0.468	Begin 415' foot Method B repair, full width. Begin 6" x 130' underdrain in ditchline with 6" x 20' outlet pipe, see detail. Pay Items 20303 20457, 20968, 25550, 32203D, 40451, 60506, 60507.	1.179	Begin cobble surface, begin rocked ditchline, see details. Pay Items 20419, 32203A, 32218L, 32218R.
		1.195	Existing CMP, junction right 3430115. Install 2 sediment traps 25' and 50' prior to CMP. Pay Item 20420A.
0.534	Remove existing CMP, install CPP Pay Items 20301, 25101, 60209A, 60276A, 60604, 60654A	1.213	End cobble surface, end rocked ditchline.
0.546	End Method B repair	1.316	Begin cobble surface, begin rocked ditchline, see details. Pay Items 20419, 32203A, 32218L, 32218R
		1.385	Replace existing CMP, install CPP with 20' rocked outlet ditch. Pay Items 20301, 20419, 25101, 60276B.
0.554	Begin Method B repair Pay Items 20457, 20968, 25550, 32203D, 40451		
		1.457	End cobble surface, end rocked ditchline.
0.558	Remove existing CMP, install CPP. Pay Items 20301, 25101, 60209A, 60276A, 60604, 60654A.	1.548	Begin cobble surface, begin rocked ditchline, see details. Pay Items 20419, 32203A, 32218L, 32218R.
0.572	End Method B repair.		
		1.652	Reference Point - Existing 5' CMP, Water source. Place Grading P 12" deep, 15' wide, 40' deep, 25 CY for turnaround. Pay Item 32218P.
0.700	Reference point - Junction left, Road 3431		
		1.679	End cobble surface, end rocked ditchline.
0.708	End asphalt, begin aggregate surface, begin 4" depth Grading P, Pay Item 32218P		
		2.326	Replace existing CMP, install CPP. Replace contaminated surfacing with 20 CY Grading A, minimum depth 12". Pay Items 20301, 25101, 32203A, 60276B.
0.746	End aggregate		End Project

3431 Worklist

SHEET NO. 16	TOTAL SHEETS 17
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MP	Work Item	MP	Work Item
0.000	Begin project 3431, Jct Road 3430 & 3431		
0.059	Bridge approach repair, see detail. Pay Items 20303, 20457, 20968, 25550, 32203D, 40451.	0.456	Proposed waste area left, final site graded to blend with meadow, Install silt fence and straw bales on perimeter, as staked by CO. Install berm along left side of Road 3431 the length of the waste area, as staked by CO. Hydromulch completed site. Pay Items 15713, 20102, 62529X,
0.067	Remove 1 alder tree against bridge as marked by CO, Pay Item 20253.	0.505	End waste area left
0.072	Bridge approach repair, see detail. Water Source Begin 2" depth Grading D leveling course at end of bridge approach repair. Begin 4" depth asphalt at start of bridge repair. Pay Items 20303, 20457, 20968, 25550, 32203D, 40451.	0.522	Meadow spur left, shape and place turnaround, Grading P, 15' x 40' x 12" deep, 25 CY, taper onto meadow surface Pay Item 32218P
		0.594	Remove boulders from ditchline, scatter on downhill side of road, (5 CY), Pay Item 20416.
0.083	Re-locate sandstone boulder from ditchline to below road shoulder, Reduction may be necessary, Pay Item 20416.	0.700	Reference Point - Pump house on left
0.090	End 4" depth asphalt placement, end Grading D, construct asphalt transistion, Begin 4" depth Grading P, Pay Item 32218P.	0.825	Reference point - existing gate, end Grading P screened aggregate. Begin placing an average 3 CY Grading A aggregate, in each waterbar, total number of water bars = 36, end at MP 2.446. Pay Item 32203A.
0.097	End Grading P, Begin cobble surface, see detail. Begin full width turnout left 8' wide x 50' long, 40' tapers. Begin full width curve widening right 4' x 50' with 40' tapers Begin clearing right, 10 feet, (slope distance), beyond top of existing cut. Remove all deciduous and coniferous trees, greater than 3" DBH, unless marked to remain by CO. Pay Items 20104, 32203A, 32218L, 32218R.	0.932	Remove root wads, and slough, (20 CY), and contaminated surfacing to waste area . Place 20 CY of Grading A surfacing, Pay Items 20416, 32203A.
		1.214	Begin clearing, from top of cut to edge of fill shoulder, all alders, larger than 2" diameter. Remove with roots attached, sidecast material. Pay Item 20102, end at MP 2.466.
0.269	Replace existing CMP, install CPP with downpipe, construct catchbasin. Pay Items 20301, 20420B, 25101, 60209B, 60276B, 60604, 60654B.	1.290	Begin waste area left.
0.288	Begin realignment, Section 2, L-Sta 100, see 3431 REALIGNMENT DETAILS Pay Items 15201X, 20104X, 20457X, 32218LX, 62529X. End Item 20104, 32218L. Begin sediment traps as staked by CO, Pay Item 20420A.	1.320	Clear and construct turnaround right, as flagged by CO, on existing closed road. Remove berm and trench, place Grading P 12" deep, 15' wide, 40' deep, 25 CY for turnaround. Clear area on right for temporary storage of clearing slash debris, as staked by CO. Reinstall berm, per typical after completing waste area, straw mulch site. Berm removal and re-installation indirect to 20104. Place 20 CY Grading A to replace contaminated surfacing on Road 3431. Pay Items 20104, 32203A, 32218P, 62509.
0.300	Section 4 - failure point Reference point		
		1.540	Replace existing CMP, install CPP with downpipe. Clean ditchline 50' uphill from inlet, indirect to Item 60276B . Replace contaminated surfacing with 20 CY Grading A, minimum depth 12". Pay Items 20301, 20420B, 25101, 60209B, 60276B, 60604, 60654B.
0.324	Section 9 - End re-alignment, L-Sta 291, End Items 15201X, 20104X, 20457X, 32218LX. Replace existing CMP, install CPP with downpipe, construct catchbasin. Pay Items 20301, 20420B, 25101, 60209B, 60276B, 60604, 60654B. Begin Items 20104, 32218L.		
		1.560	Remove root wads and slough, (25 CY). and contaminated surfacing to waste area Place 20 CY of Grading A, Pay Items 20416, 32202A.
0.340	Remove loose root wads and slide material from cut slope to waste area, (20 CY). Pay Item 20416		
0.385	Re-build fill shoulder left - compact slope and place 20 CY Grading L, Pay Item 32218L	1.850	Replace existing CMP, install CPP with downpipe. Replace contaminated surfacing with 20 CY Grading A, minimum depth 12". Pay Items 20301, 220420B, 25101, 60209B, 60276B, 60604, 60654B.
0.414	Replace existing CMP, install CPP. Pay Items 20301, 25101, 60276B.	1.870	Remove root wads and , (80 CY), slough, and contaminated surfacing to waste area. Add 20 CY of Grading A surfacing. Pay Items 20416, 32202A.
0.422	End cobble surface, end ditchline rocking. End 10' clearing above top of cut on right End Items 32218L, 32218R. Begin 4" depth Grading P, Item 32218P.	2.070	Waste area left as flagged by CO. 2' maximum fill height on existing trees, straw mulch completed site. Replace contaminated surfacing with 20 CY Grading A. Pay Items 322203A, 62509.
0.451	Reference Point - Existing live culvert		
		2.446	Waste area on right ,as needed, as flagged by CO, straw mulch site. Replace contaminated surfacing with 20 CY Grading A . Pay Items 322203A, 62509. End waterbar aggregate placement, end clearing. End Project

3431 Worklist

SHEET NO. 16	TOTAL SHEETS 17
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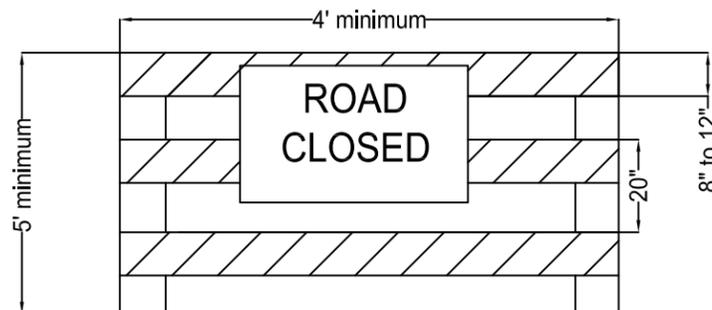
MP	Work Item	MP	Work Item
0.000	Begin project 3431, Jct Road 3430 & 3431		
0.059	Bridge approach repair, see detail. Pay Items 20303, 20457, 20968, 25550, 32203D, 40451.	0.456	Proposed waste area left, final site graded to blend with meadow, Install silt fence and straw bales on perimeter, as staked by CO. Install berm along left side of Road 3431 the length of the waste area, as staked by CO. Hydromulch completed site. Pay Items 15713, 20102, 62529X,
0.067	Remove 1 alder tree against bridge as marked by CO, Pay Item 20253.	0.505	End waste area left
0.072	Bridge approach repair, see detail. Water Source Begin 2" depth Grading D leveling course at end of bridge approach repair. Begin 4" depth asphalt at start of bridge repair. Pay Items 20303, 20457, 20968, 25550, 32203D, 40451.	0.522	Meadow spur left, shape and place turnaround, Grading P, 15' x 40' x 12" deep, 25 CY, taper onto meadow surface Pay Item 32218P
		0.594	Remove boulders from ditchline, scatter on downhill side of road, (5 CY), Pay Item 20416.
0.083	Re-locate sandstone boulder from ditchline to below road shoulder, Reduction may be necessary, Pay Item 20416.	0.700	Reference Point - Pump house on left
0.090	End 4" depth asphalt placement, end Grading D, construct asphalt transistion, Begin 4" depth Grading P, Pay Item 32218P.	0.825	Reference point - existing gate, end Grading P screened aggregate. Begin placing an average 3 CY Grading A aggregate, in each waterbar, total number of water bars = 36, end at MP 2.446. Pay Item 32203A.
0.097	End Grading P, Begin cobble surface, see detail. Begin full width turnout left 8' wide x 50' long, 40' tapers. Begin full width curve widening right 4' x 50' with 40' tapers Begin clearing right, 10 feet, (slope distance), beyond top of existing cut. Remove all deciduous and coniferous trees, greater than 3" DBH, unless marked to remain by CO. Pay Items 20104, 32203A, 32218L, 32218R.	0.932	Remove root wads, and slough, (20 CY), and contaminated surfacing to waste area . Place 20 CY of Grading A surfacing, Pay Items 20416, 32203A.
		1.214	Begin clearing, from top of cut to edge of fill shoulder, all alders, larger than 2" diameter. Remove with roots attached, sidecast material. Pay Item 20102, end at MP 2.466.
0.269	Replace existing CMP, install CPP with downpipe, construct catchbasin. Pay Items 20301, 20420B, 25101, 60209B, 60276B, 60604, 60654B.	1.290	Begin waste area left.
0.288	Begin realignment, Section 2, L-Sta 100, see 3431 REALIGNMENT DETAILS Pay Items 15201X, 20104X, 20457X, 32218LX, 62529X. End Item 20104, 32218L. Begin sediment traps as staked by CO, Pay Item 20420A.	1.320	Clear and construct turnaround right, as flagged by CO, on existing closed road. Remove berm and trench, place Grading P 12" deep, 15' wide, 40' deep, 25 CY for turnaround. Clear area on right for temporary storage of clearing slash debris, as staked by CO. Reinstall berm, per typical after completing waste area, straw mulch site. Berm removal and re-installation indirect to 20104. Place 20 CY Grading A to replace contaminated surfacing on Road 3431. Pay Items 20104, 32203A, 32218P, 62509.
0.300	Section 4 - failure point Reference point		
		1.540	Replace existing CMP, install CPP with downpipe. Clean ditchline 50' uphill from inlet, indirect to Item 60276B . Replace contaminated surfacing with 20 CY Grading A, minimum depth 12". Pay Items 20301, 20420B, 25101, 60209B, 60276B, 60604, 60654B.
0.324	Section 9 - End re-alignment, L-Sta 291, End Items 15201X, 20104X, 20457X, 32218LX. Replace existing CMP, install CPP with downpipe, construct catchbasin. Pay Items 20301, 20420B, 25101, 60209B, 60276B, 60604, 60654B. Begin Items 20104, 32218L.		
		1.560	Remove root wads and slough, (25 CY). and contaminated surfacing to waste area Place 20 CY of Grading A, Pay Items 20416, 32202A.
0.340	Remove loose root wads and slide material from cut slope to waste area, (20 CY). Pay Item 20416		
0.385	Re-build fill shoulder left - compact slope and place 20 CY Grading L, Pay Item 32218L	1.850	Replace existing CMP, install CPP with downpipe. Replace contaminated surfacing with 20 CY Grading A, minimum depth 12". Pay Items 20301, 220420B, 25101, 60209B, 60276B, 60604, 60654B.
0.414	Replace existing CMP, install CPP. Pay Items 20301, 25101, 60276B.	1.870	Remove root wads and , (80 CY), slough, and contaminated surfacing to waste area. Add 20 CY of Grading A surfacing. Pay Items 20416, 32202A.
0.422	End cobble surface, end ditchline rocking. End 10' clearing above top of cut on right End Items 32218L, 32218R. Begin 4" depth Grading P, Item 32218P.	2.070	Waste area left as flagged by CO. 2' maximum fill height on existing trees, straw mulch completed site. Replace contaminated surfacing with 20 CY Grading A. Pay Items 322203A, 62509.
0.451	Reference Point - Existing live culvert		
		2.446	Waste area on right ,as needed, as flagged by CO, straw mulch site. Replace contaminated surfacing with 20 CY Grading A . Pay Items 322203A, 62509. End waterbar aggregate placement, end clearing. End Project

NOTES

1. Construct and install Temporary Traffic Control Zone signs in relation to the road according to Part VI of the Manual on Uniform Traffic Control Devices. (MUTCD), hand stenciled signs not acceptable.
2. Contractor shall be responsible to maintain all Traffic Control Signs. Any signs missing or defaced shall be replaced immediately. At end of closure period, contractor shall remove signs.
3. Road closure devices shall be Type III Barricade with a BM - R36, a BM - L36, and a R11 - 2 installed in accordance with MUTCD.
4. Contractor shall notify CO in writing of the proposed road closure at least 14 days in advance.
5. Construction sign plan is the minimum, adapt as needed.

CLOSURE DATA

- Closures for Road 3430, from MP 0.00 to MP 0.10 are only temporary, up to 1/2 hour each, week days only.
- Closures for Road 3430, from MP 0.40 to MP 0.70 are during the day, 0800 - 1800, open evenings and weekends.
- Closures for Road 3430, from MP 0.70 to MP 2.33 and Road 3431, from MP 0.00 to MP 2.45 are during the week, open weekends. This may be adjusted as approved by CO.



Type III Barricade furnished with a BM - R36, a BM -L36, and a R11 - 2

A

THISSELL ROAD TEMPORAY CLOSURES - UP TO 1/2 HOUR EACH, FOR BRIDGE REPAIRS MONDAY THRU FRIDAY 8:00 AM TO 6:00 PM (insert dates here) MP 0.0 TO MP 0.1

B

FOR ADDITIONAL INFORMATION CALL CENTRAL COAST RANGER DISTRICT 541-563-8400

Reflective Guide Sign with orange background and black 2" lettering.
Sign - 24' x 48'

Place on Road 3430, (Thissell Road), as staked by CD, MP 0.00
Install 1 week prior to closure.

C

THISSELL ROAD CLOSURE MONDAY THRU FRIDAY 8:00 AM TO 6:00 PM (insert dates here) MP 0.4 TO MP 0.7

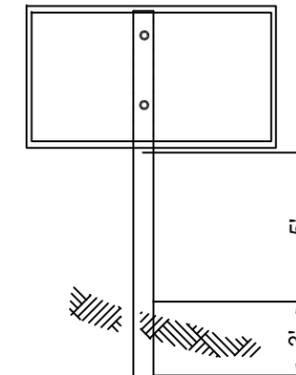
D

FOR ADDITIONAL INFORMATION CALL CENTRAL COAST RANGER DISTRICT 541-563-8400

Reflective Guide Sign with orange background and black 2" lettering.
Sign - 24' x 48'

Place on Road 3430, (Thissell Road), as staked by CD, MP 0.40
Install 1 week prior to closure.

Insert dates of closure and mileages where applicable.



Prior to work commencing,
Place one "Trucks" sign on Road 3430 MP 0.00
Place during work on individual sites, "Road Work Ahead" sign 500' prior to and after during work at each site, or as approved by CO.

Above signs - minimum 2' x 2', and may be placed on approved temporary stands.

TRUCKS

ROAD WORK AHEAD

W20-3
24' x 24'
Reflective Guide Sign with orange background and black 2" lettering.