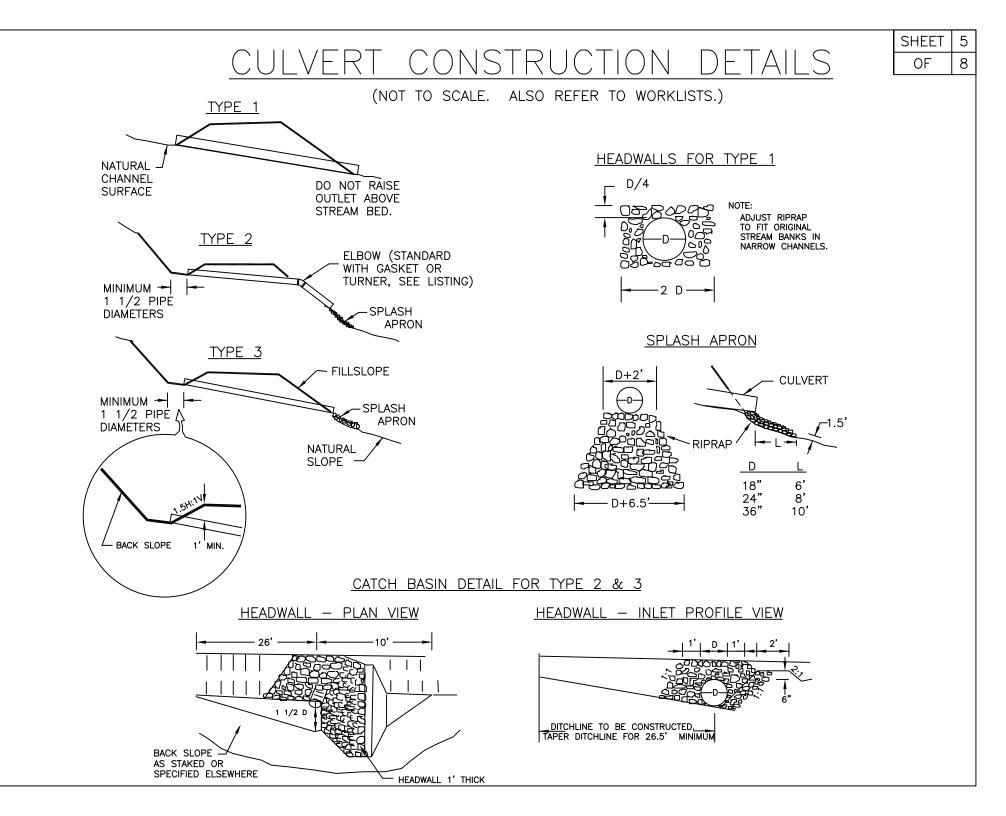
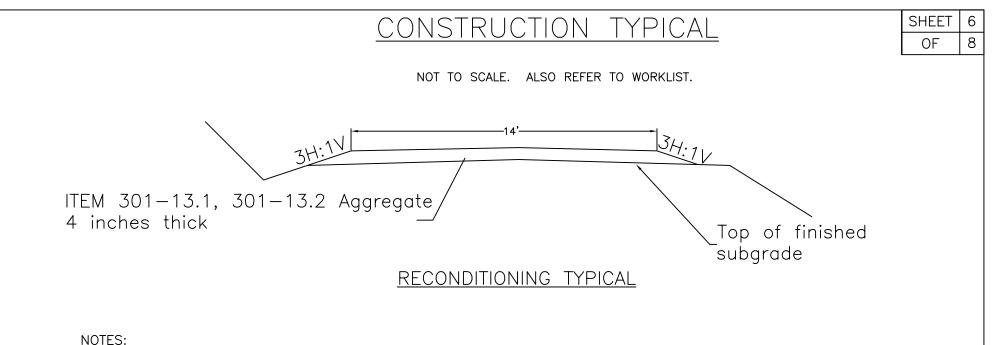


	S TIMBER SALE ROADS - I	ESTIMATI	E OF QUA	NTITIES			DORIS TIMBER SALE ROADS SHEET 3 OF 8				
	unit pay items are measured in-place. All reference	Road No.	1746-460	1746-707	1746-824	4) Units are me asterisk *	easured as Contract Quantity unless denoted by an				
excavation) vo 2) See workli location of wo	sts and vicinity map for further description and	Project Length (MP)	0.01 Miles	4.5 Miles	0.04 Miles	5) Road 1746-707 has other MP locations identifying work inclusive to the mile posts designated under the road number on this sheet. See worklist.					
		Work Type	Culvert work	Culvert work	Reconstruction						
Pay Item	Description		Pay It	em Quantities	by Road	Total Quantities this sheet	Remarks				
151-01	Mobilization	Lump Sum				1	Mobilization for all road work				
201-03	Clearing and grubbing, disposal of tops and limbs 4, logs 4, stumps 4	Mile			0.04	0.04					
203-01.1	Removal of metal culvert, (ditch relief)	Each*	1	8		9	Excavation is indirect payment to culvert removal.				
203-01.2	Removal of metal culvert (stream crossing under 10' deep at centerline)	Each*		1		1	Excavation is indirect payment to culvert removal.				
203-01.3	Removal of metal culvert (stream crossing over 10' deep at centerline)	Each*		1		1	Excavation is indirect payment to culvert removal.				
204-01	Roadway excavation, compaction method C, finishing meathod A	Cubic yard			190	190	Disposal site location road 1746-707 M.P. 0.8.				
204-15	Unsuitable Excavation	Cubic yard		40		40	Disposal site location road 1746-707 M.P. 0.8.				
209-59	Furnishing backfill material for pipe	Cubic yard	5	50		55	Commercial source, 5 CY per culvert placement				
251-01.3	Placed riprap, class 3	Cubic yard	2	24		26	Commercial source. Slope protection, splash aprons				
251-10.1	Hand-placed riprap, class 1	Cubic yard	1	10		11	Commercial source. Headwalls.				
301.13.1	Aggregate surface course, Type 3/4" minus, compaction method A.	Cubic yard		32		32	Commercial source, roadway aggregate for spot rock area. Scarify roadway.				
301-13.2	Aggregate surface course, Type 3/4" minus, compaction method A.	Cubic yard			17	17	Commercial source, roadway aggregate for road alignment shift. Do not scarify roadway.				
602-63.18	18" aluminized steel, type 2, corrugated steel pipe, 0.064 inch thickness, Method B	L.F.*	40	264		304	See worklist for work activity details.				
602-63.24	24" aluminized steel, type 2, corrugated steel pipe, 0.064 inch thickness, Method B	L.F.*		136		136	See worklist for work activity details.				

LOC	ATION	AND CUL	VER	T LEN(	GTHS		I	NSTAL	LATION	DETAILS AN	ND SPEC	CIAL SEC	TIONS			RIPRAP REQUIREMENTS								SHEET 4 OF 8				
D	ESIGNE	D		AS B	BUILT		ORRUGA AETAL F			SPILLWAYS		BEVE	LED DROP	INLET		HEADWAL	L	SP	PLASH AF	RON	Ρ	SLOPE ROTECT			SUBGRADE INFORCEMENT			
MP	STA. (FT)	LENGTH (FT)	MP	STA. (FT)	LENGTH (FT)	DIA. (IN)		TYPE		ANCHORS (EA)	ELBOW	DIA (INCH)	LENGTH (FT)	"B" ANGLE	СҮ	CLASS	TYPE	CY	CLASS	TYPE	СҮ	CLASS	TYPE	CY	CLASS TYPE			ER SALE ISTING
									Ro	ad #1746-	460							1 1			1 1							
									-																			
0.160					40	18	0.064								1	1	Н	2	3	D								
									Ro	ad #1746-	707																	
1.811					90		0.064								1	1	H	3	3	D						Stream cr		
2.021					46 28		0.064								1	1	Н	5	3	D						Stream cr	ossing	
2.095					28	10	0.064								1	1	H	2	3	<u>D</u>								
2.297 2.544					38		0.004								1	1	<u>H</u>	2	3	D D								
4.815		-			30		0.004								1	1		2	3	D								
5.207					30		0.064								1	1	H	2	3	D								
5.610					34		0.064								1	1	H	2	3	D								
5.734					34		0.064								1	1	Ĥ	2	3	D								
5.835					34	18	0.064								1	1	H	2	3	D								
Note:																												
1) St	aking fo	or culverts	has	been c	ompleted b	by the	Fores	Servic	e. Culve	rt lengths an	d locatio	ns are ba	ased on a	s-staked	cond	itions. In	stall ci	ulvert	s as sta	ked.								
										er than exist											ocatio	ns						
										l on grades				ouration	0.00			1										
										hall be cam				5% of th		vert leng	th											
										section draw		amount	equal to o	.5 /0 01 1	ie cui	vertieng	u I.											
											nings.																	
					Dumped,			aceu, N	i - Machir	ie Placed.								+										
7) N	/iinimun	n one toot	cove	r over	culvert inst	allatio	on.																					
									+		+																	
			I	1		1	I	I	1	1	1							1										





1) WATER SOURCE FOR THE PROJECT IS LOCATED ON ROAD 1746-707 M.P. 1.43 AT HARVEY CREEK.

				SI	JBGRA	DE				DAD STRUC	TURE		REMARKS
ROAD NUMBER	MILE POST	MILE POST	H ROADBED	H WIDTH	DITCH	DIMENSIONS	CUR' HLQIM FT	⊣ TRANSITION	TRAVELED	AGGREGATE COMPACTED DEPTH	ROCK SLOPE RATIO		
			L	R	Н	V	L&R	L&R					
1746-707	1.343	1.373	8	8	3	1			14			SEE	WORKLIST
1746-824	0.20	0.22	7.5	7.5					14			SEE	WORKLIST
							1	1	1				

	Reconstruction Worklist for Road 1746-460	SHEET 7 OF 8				
MILE POST	DESCRIPTION	PAY ITEM	<u>Q</u> I	QUANTITY		
0	Beginning of road 1746-460, at intersection with Rd.1746-000					
0.40	Remove existing culvert and replace with a new 18" CMP as staked by the Forest Service. Salvage existing	203-01.1 209-59	1 5	EA CY		
0.16	aggregate (indirect payment to 602-63.18) over the pipe, then place Aggregate and compact over the new culvert installation. Construct headwall and splash apron. End work this road.	251-01.3 251-10.1 602-63.18	2 1 40	CY CY LF		

## Reconstruction Worklist for Road 1746-707

MILE POST	DESCRIPTION	PAY ITEM	<u>Q</u> l	JANTITY
0	Beginning of road 1746-707, at intersection with Rd.1746-000			
0.8	Disposal site for waste material and stockpile site for aggregate and riprap.			
1.343	Begin work this road. Scarify existing roadbed 2" depth (indirect payment to 301-13.1) for placement of aggregate. Place and compact 4" of surface aggregate for 174' as staked over the entire running surface.	301-13.1	32	CY
1.43	Water source Harvey Creek.			
1.811	Remove existing 24" culvert and replace with a new 24" CMP as staked by the Forest Service. Salvage existing aggregate (indirect payment to 602-63.24) over the pipe, then place Aggregate and compact over the new installation. Construct headwall and splash apron. Restablish 125' of 1' deep ditchline as staked by the Forest Service (indirect payment to 602-63.24).	203-01.3 209-59 251-01.3 251-10.1 602-63.24	1 5 3 1 90	EA CY CY CY LF
2.021	Remove existing 18" culvert and replace with a new 24" CMP as staked by the Forest Service. Salvage existing aggregate (indirect payment to 602-63.24) over the pipe, then place Aggregate and compact over the new installation. Construct headwall and splash apron. Remove 40 C.Y. of unsuitable material above the inlet as staked by the Forest Service. Remove three trees (indirect payment to 204-15) above the inlet. Haul unsuitable material to disposal site at M.P. 0.8. Stockpile waste where staked by the Forest Service. Deck logs at wide area adjacent to culvert site where staked by Forest Service.	203-01.2 204-15 209-59 251-01.3 251-10.1 602-63.24	1 40 5 5 1 46	EA CY CY CY CY LF
2.095	Remove existing culvert and replace with a new 18" CMP as staked by the Forest Service. Salvage existing aggregate (indirect payment to 602-63.18) over the pipe, then place Aggregate and compact over the new installation. Construct headwall and splash apron.	203-01.1 209-59 251-01.3 251-10.1 602-63.18	1 5 2 1 28	EA CY CY CY LF
2.297	Remove existing culvert and replace with a new 18" CMP as staked by the Forest Service. Salvage existing aggregate (indirect payment to 602-63.18) over the pipe, then place Aggregate and compact over the new installation. Construct headwall and splash apron.	203-01.1 209-59 251-01.3 251-10.1 602-63.18	1 5 2 1 36	EA CY CY CY LF
2.312	Intersection with Rd. 1746-824 left.			

Reconstruction Worklist for Road 1746-707, C	ontinued
	ontinuou

## SHEET 8 OF 8

MILE POST	DESCRIPTION	PAY ITEM	Q	<u>UANTITY</u>
2.544	Remove existing culvert and replace with a new 18" CMP as staked by the Forest Service. Salvage existing aggregate (indirect payment to 602-63.18) over the pipe, then place Aggregate and compact over the new installation. Construct headwall and splash apron.	203-01.1 209-59 251-01.3 251-10.1 602-63.18	1 5 2 1 38	EA CY CY CY LF
4.815	Remove existing culvert and replace with a new 18" CMP as staked by the Forest Service. Salvage existing aggregate (indirect payment to 602-63.18) over the pipe, then place Aggregate and compact over the new installation. Construct headwall and splash apron.	203-01.1 209-59 251-01.3 251-10.1 602-63.18	1 5 2 1 30	EA CY CY CY LF
5.207	Remove existing culvert and replace with a new 18" CMP as staked by the Forest Service. Salvage existing aggregate (indirect payment to 602-63.18) over the pipe, then place Aggregate and compact over the new installation. Construct headwall and splash apron.	203-01.1 209-59 251-01.3 251-10.1 602-63.18	1 5 2 1 30	EA CY CY CY LF
5.61	Remove existing culvert and replace with a new 18" CMP as staked by the Forest Service. Salvage existing aggregate (indirect payment to 602-63.18) over the pipe, then place Aggregate and compact over the new installation. Construct headwall and splash apron.	203-01.1 209-59 251-01.3 251-10.1 602-63.18	1 5 2 1 34	EA CY CY CY LF
5.734	Remove existing culvert and replace with a new 18" CMP as staked by the Forest Service. Salvage existing aggregate (indirect payment to 602-63.18) over the pipe, then place Aggregate and compact over the new installation. Construct headwall and splash apron.	203-01.1 209-59 251-01.3 251-10.1 602-63.18	1 5 2 1 34	EA CY CY CY LF
5.835	Remove existing culvert and replace with a new 18" CMP as staked by the Forest Service. Salvage existing aggregate (indirect payment to 602-63.18) over the pipe, then place Aggregate and compact over the new installation. Construct headwall and splash apron. End work this road.	203-01.1 209-59 251-01.3 251-10.1 602-63.18	1 5 2 1 34	EA CY CY CY LF

	Reconstruction Worklist for Road 1746-824													
MILE POST	DESCRIPTION	PAY ITEM	Q	<u>JANTITY</u>										
0	Beginning of road 1746-824, at intersection with Rd.1746-707													
0.20	Begin work this road. Excavate roadway horizontal alignment shift 4' right (construct backslope 1V:0.75H) as staked by the Forest Service. Haul all unused excavated material (indirect payment to 204-01) to waste area on road 1746-707 M.P. 0.8. Maintain existing grade. Place 4" of surface aggregate for 93' on roadway running surface as staked by the Forest Service. Place surface aggregate flush against cut slope. No roadside ditch is needed. Do not scarify roadway. Deck merchantable logs where staked by Forest Service. End work this road.	201-03 204-01 301-13.2	0.04 190 17	Mile CY CY										