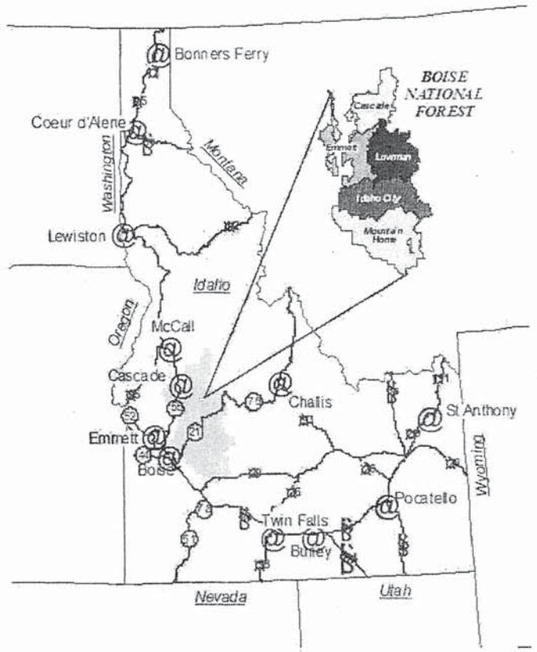
U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
REGION 4

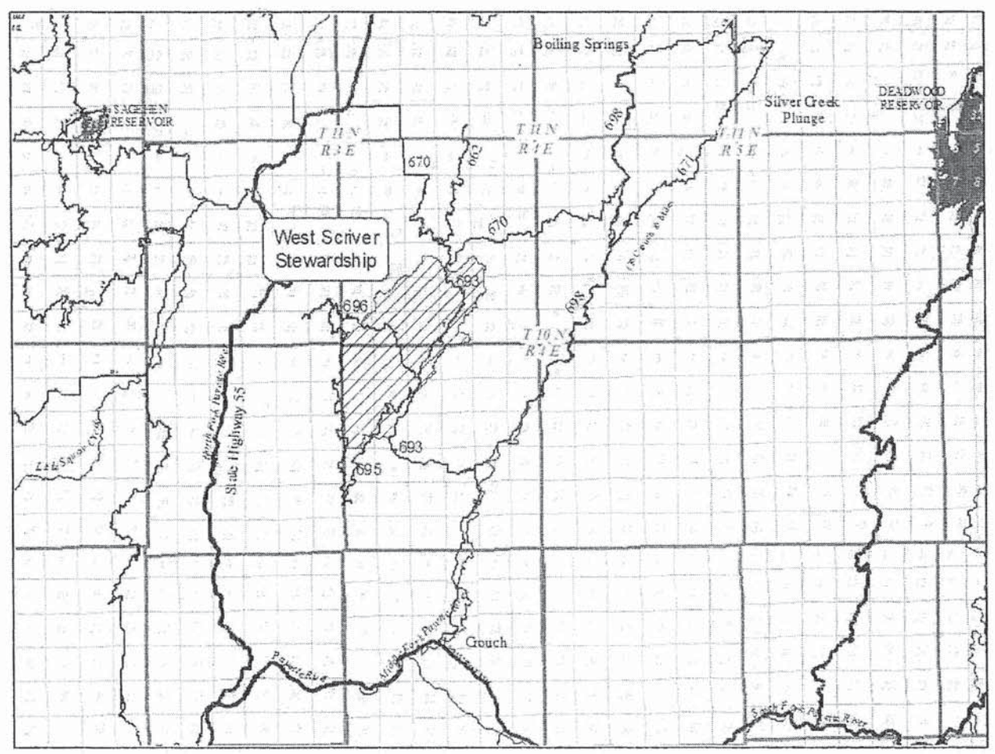
PLANS FOR PROPOSED PROJECT

West Scriver Stewardship

BOISE NATIONAL FOREST
EMMETT RANGER DISTRICT
BOISE & VALLEY COUNTIES
IDAHO



IDAHO MAP



PROJECT DESCRIPTION

This project consists of road reconstruction work on National Forest System Roads (NFSR) near Crouch, Idaho. Major items of work include: clearing and grubbing, roadway excavation, road reconditioning, haul and placement of aggregate, removal and installation of culverts, and seeding and mulching.

SPECIFICATION:
Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, FP-03, U.S. Customary Units
www.wfl.fha.dot.gov/design/specs/fp03.htm

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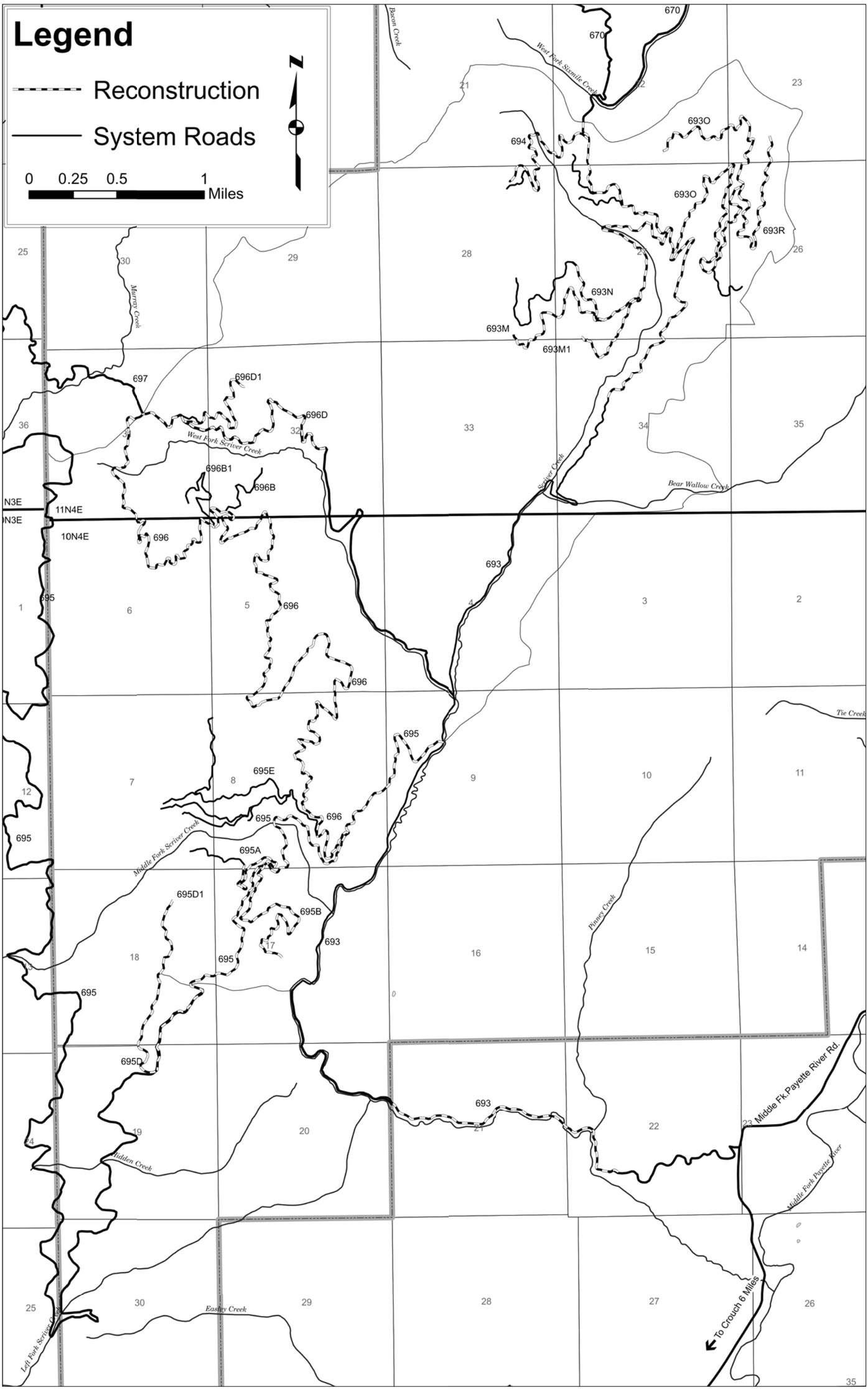
APPROVED: Richard C. Newton DATE: 8/12/2013
DISTRICT RANGER

APPROVED: R. Brent Berg DATE: 08/08/2013
FOREST ENGINEER (for)



SHEET 2 of 65

Vicinity Map

West Scriver Stewardship

DESIGN	BY:	R.Smith
	CHECK:	D.Woras
DRAWING	BY:	R.Smith
	CHECK:	D.Woras
DRAWING NUMBER:		

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PROJECT ESTIMATED QUANTITIES

ROAD NUMBER	Mobilization ...Lump Sum	Construction survey and staking, Method II, Tolerance E ....Mile	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f, Logs f, and Stumps f ....Mile	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs e, Logs e, and Stumps f ....Acre	Removal of Culvert, Disposal Method A ....Each	Removal of Gate, Disposal Method A ....Each	Removal of Neoprene Down Pipe, Disposal Method A ....Each	Roadway excavation, Compaction Method C, Finishing Method A ....Cubic Yard	Roadway excavation, Compaction Method C, Finishing Method A ....Mile	Grade Dip ....Each	Machine Placed Riprap, Class 3 ....Cubic Yard	Road reconditioning, Compaction Method A ....Mile	Road reconditioning, Compaction Method B ....Mile	Furnish and Place Base Course Aggregate, Grading D, Compaction Method B ....Cubic Yard	Haul and Place Pit Run, Maximum Size 4", (Government Source), Compaction Method B ....Cubic Yard	73 Inch Span, 55 Inch Rise Corrugated Steel Pipe Arch, 0.079 inch Thickness, Method A ....Linear Foot	18 inch corrugated steel pipe, 0.064 inch thickness, Method A ....Linear Foot	24 inch corrugated steel pipe, 0.064 inch thickness, Method A ....Linear Foot	30 inch corrugated steel pipe, 0.064 inch thickness, Method A ....Linear Foot	36 inch corrugated steel pipe, 0.064 inch thickness, Method A ....Linear Foot	48 inch corrugated steel pipe, 0.064 inch thickness, Method A ....Linear Foot	18 inch corrugated steel half round outlet pipe, 0.064 inch thickness ....Linear Foot	24 inch - 30 Degree Pipe Elbow, 0.064 inch Thickness ....Each	24 -inch Corrugated Steel Pipe, 0.064 inch Thickness, Full-Round outlet pipe, with Anchors ....Linear Foot	Reconditioning drainage structures, Repair Catch Basin, Outlet, and Inlet ....Each	Seeding, dry method (with mulch) ....Acre	Erosion Control Blanket, Type 3.B ....Square Yard	Furnish and install road closure device, type Gate, size 16' ....Each
	15101	15211	20103	20104	20301A	20301B	20301C	20401	20402	20426	25101	30322A	30322B	32232B	32232C	60253	60265A	60265B	60265C	60265D	60265E	60602	60605	60650	60710	62556	62901	65001
693(R)	1		1.70		5				1.70		30		1.70	1200	95		196	42							4			
693M(R)	1		2.34		5	1	1		2.34	13	15	2.34		120	10		146				50							1
693M1(R)	1		0.60						0.60	1		0.60					40								1			
693N(R)	1		0.45		2				0.45	7		0.45					70											
693O(R)	1		3.52		1	1			3.52	7		3.52		115			42											1
693R(R)	1		1.40						1.40	10		1.40			10		32											
694(R)	1		1.47		2				1.47	18		1.47		120	130		38		42									1
695(R)	1		4.15			1	1		4.15		10		4.15	80			44					24						
695A(R)	1		0.66						0.66	2		0.66			180													
695B(R)	1		1.14						1.14	9		1.14		40														
695D(R)	1		0.15						0.15	3		0.15		100														1
695D1(R)	1	0.07	1.07	0.36	3			530	1.07	2		1.07		110			108	34					1	40		0.08		
695E(R)	1	0.09		0.66				1150									52									0.26		
696 Section 1(R)	1	0.74	2.76	5.18				9760	2.76	11		2.76		810			406									1.64		
696 Section 2(R)	1	3.40	1.33	22.45	1			38410	1.33	13		1.33		2755	422	46	924	352		54						7.00	690	
696D(R)	1		1.60						1.60	16		1.60		85	100													1
696D1(R)	1	0.16	0.77	0.88				1060	0.77	12		0.77		40			58									0.19		
Totals	17	4.46	25.11	29.53	19	3	2	50910	25.11	124	55	19.26	5.85	5575	947	46	2156	428	42	54	50	24	1	40	5	9.17	690	5

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REGION 4

DESIGN BY: R.Smith CHECK: D.Woras
DRAWING BY: R.Smith CHECK: D.Woras
DRAWING NUMBER:

Estimated Quanties

West Scriver Stewardship

CONSTRUCTION NOTES

Construction Notes:

SECTION 201 – CLEARING and GRUBBING: For existing roads to be reconstructed, see the clearing limits details on the Typical Sections sheet. The E.R. may designate individual trees that will remain within the clearing limits in sensitive areas adjacent to streams.

For all design sections, the clearing limits are 5 feet beyond the top of cut, and 10 feet beyond the toe of fill, unless otherwise shown on the Plan and Profile sheets. Construct slash filter windrows at the toe of fill according to FSSS 201.

SECTION 204 – EXCAVATION and EMBANKMENT: This work includes: widening of the road subgrade to a minimum width of 14 feet, improving turning radii, curve widening and intersections to accommodate loaded trucks, reshaping of the existing road template to facilitate proper drainage to ditch lines and culverts, and reconstructing all existing turnouts and turnarounds. Obtain cover material if needed for culvert installations from cut banks or roadbeds, as directed by the E.R. Remove all berms unless otherwise directed by the E.R.

SECTION 322 – MINOR AGGREGATE COURSES: Type: Pit Run (GOVERNMENT SOURCE): Aggregate quantity estimate is based on compacted in-place volume. The pit run source area is at the Ferncroft Pit, located in T10N, R2E, Section 35 on NFSR #654E. The pit is approximately 40 miles from the start of the project, see the driving directions on the Ferncroft Pit Site detail. Perform road maintenance on NFSR #654 and 654E pursuant to C5.31# maintenance requirements. When operations at the pit run source area are complete, shape the excavated portion of the source area to a stable condition, and smooth the general area as directed by the E.R.

SECTION 602 – CULVERTS and DRAINS: Payment for removal of log culverts encountered during new culvert installations is considered indirect to the corrugated metal pipe pay item. Dispose of log culverts as directed by the E.R.

SECTION 625 – TURF ESTABLISHMENT: Use certified weed free seed mix shown on this sheet. Use certified weed free straw bales for mulch. Application rate for mulch is 1 bale per 400 square feet (109 bales per acre). Seed and mulch after September 30 and before May 31. Seed and mulch all disturbed areas that are 1V:1H and flatter.

USE OF PUMPS: Portable pumps must be placed in a secondary containment vessel with sufficient volume to contain the contents of the fuel tank. All pumps used on the project must be outfitted with a suction screen that has a maximum opening size of 3/32". The only approved water sources will be designated by the E.R.

FUEL STORAGE AND REFUELING: Storage of fuel and other toxicants within Riparian Conservation Areas (RCA) is prohibited. Definition of RCA - an area within a slope distance of 300 feet of perennial streams or within a slope distance of 150 feet of intermittent streams. Refueling of equipment may be done within the RCA only at approved locations. Service trucks may not be parked overnight within RCA's, and must carry spill containment kits that are designed for the type of contaminants present and the potential spill volume. Before beginning any work, submit a hazardous spill plan in accordance with FSSS 107.10.

UTILITIES: Contractor is responsible for locating and protecting all utilities in the project area.

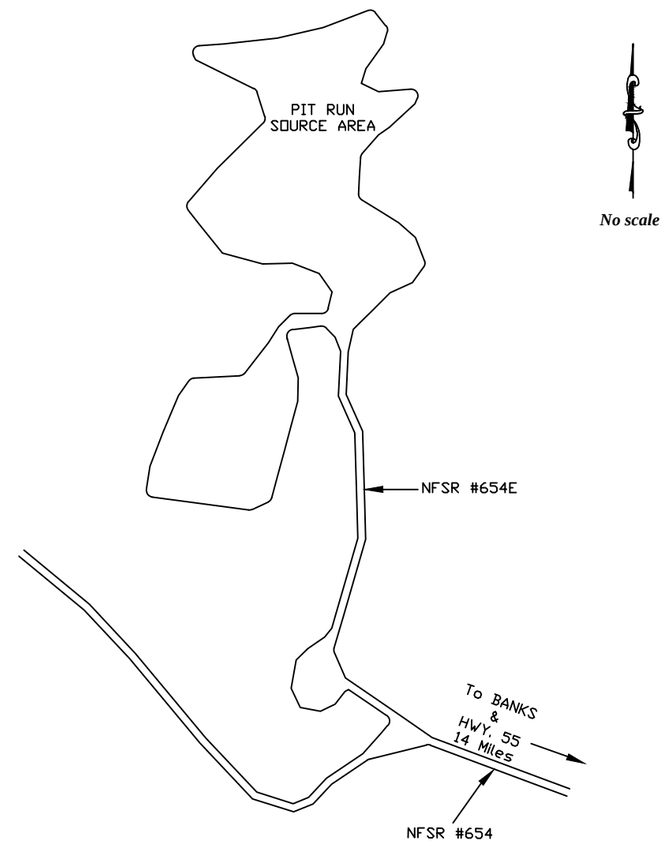
SEED MIXTURE:

Seed Type	***Pure Live Seed (PLS) Pounds Per Acre***
Streambank Wheatgrass (Sodar)	*6*
Birdsfoot Trefoil	*2*
Slender Wheatgrass (Pryor or Revenue)	*6*
Sheep Fescue (Covar)	*2*
Mountain Brome (Bromar)	*8*
Harry Vetch	*1*
Total Pounds Per Acre	***25***

FERNCROFT PIT SITE
T. 10N, R. 2E, Sec. 35

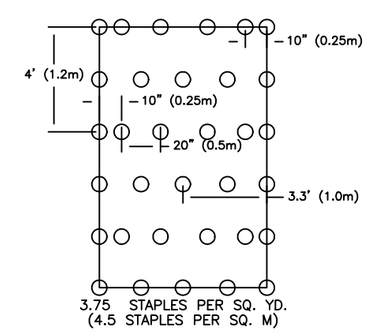
Driving Directions from the junction of NFSR #693 and the Middle Fork Payette River road:

- Follow the Middle Fork Road approximately 6 miles south to Highway 17
- Follow Highway 17 approximately 11 miles west to State Highway 55
- Cross Highway 55 and follow Road #643 approximately 13.4 miles to the junction with NFSR #654
- Take a left on NFSR #654 and follow for approximately 1.8 miles to the junction with NFSR #654E
- Take a right on NFSR #654E and follow for 0.25 miles north to the pit



Erosion Control Blanket

Typical stapling pattern detail for North American Green Bionet SC150BN erosion control blanket. For installation of Pay Item 62901, refer to FSSS 629



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DRAWING BY: R.Smith CHECK: D.Woras
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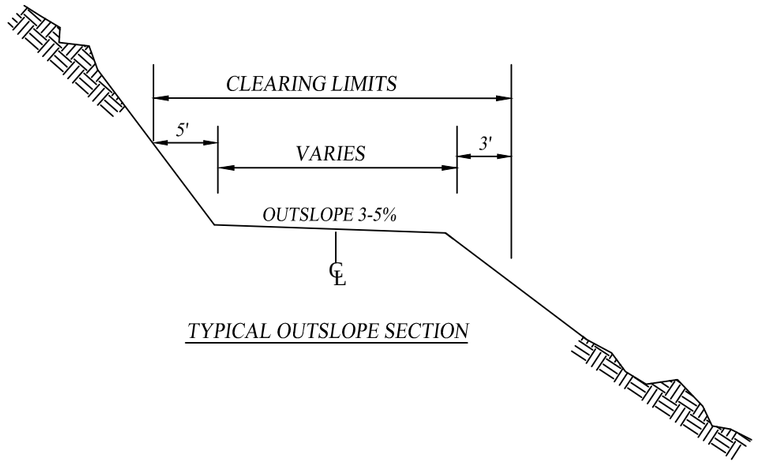
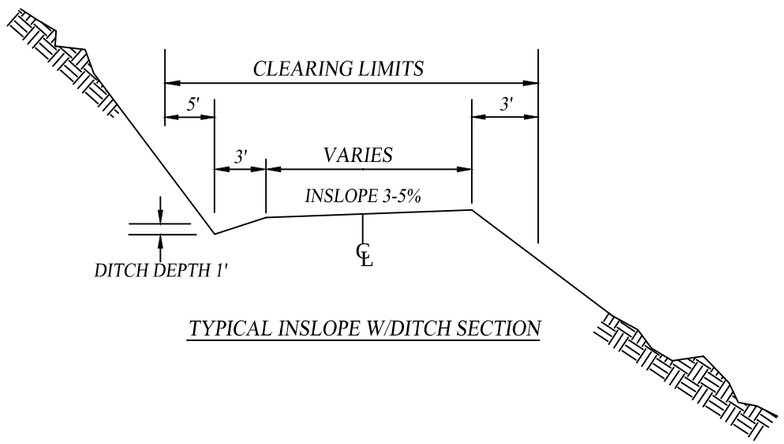
Construction Notes

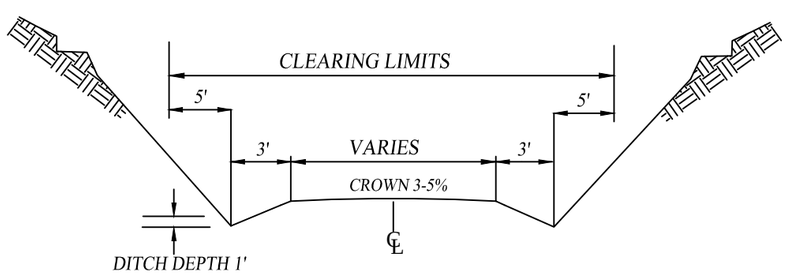
West Scriver Stewardship



TYPICAL OUTSLOPE SECTION



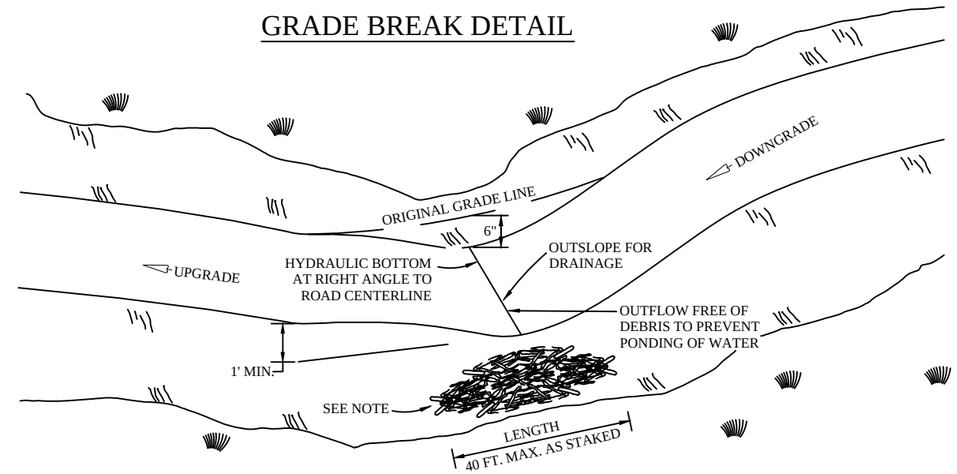
TYPICAL INSLOPE W/DITCH SECTION



TYPICAL THRU-CUT OR CROWN SECTION

CLEARING LIMITS FOR RECONSTRUCTION OF EXISTING ROADS

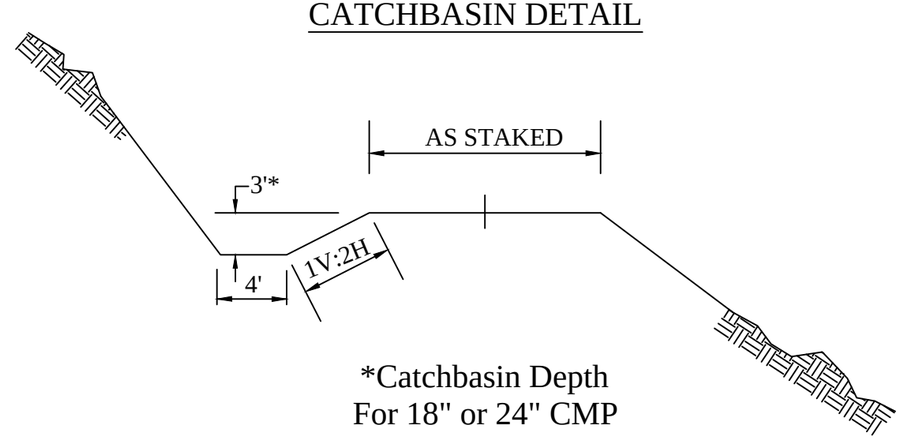
GRADE BREAK DETAIL



GRADES AS SHOWN ON PLANS

Note: At locations specified on the plan and profile sheets, place clearing slash on the fill slope. Place and compact slash to a 1 foot minimum depth. Place slash from 1 foot below the edge of the road shoulder down to the toe of fill, or a maximum distance of 25 feet. This work is an indirect cost to Item 201.

CATCHBASIN DETAIL



*Catchbasin Depth
For 18" or 24" CMP

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Typical Sections and Details

West Scriver Stewardship

SHEET
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NOTES:

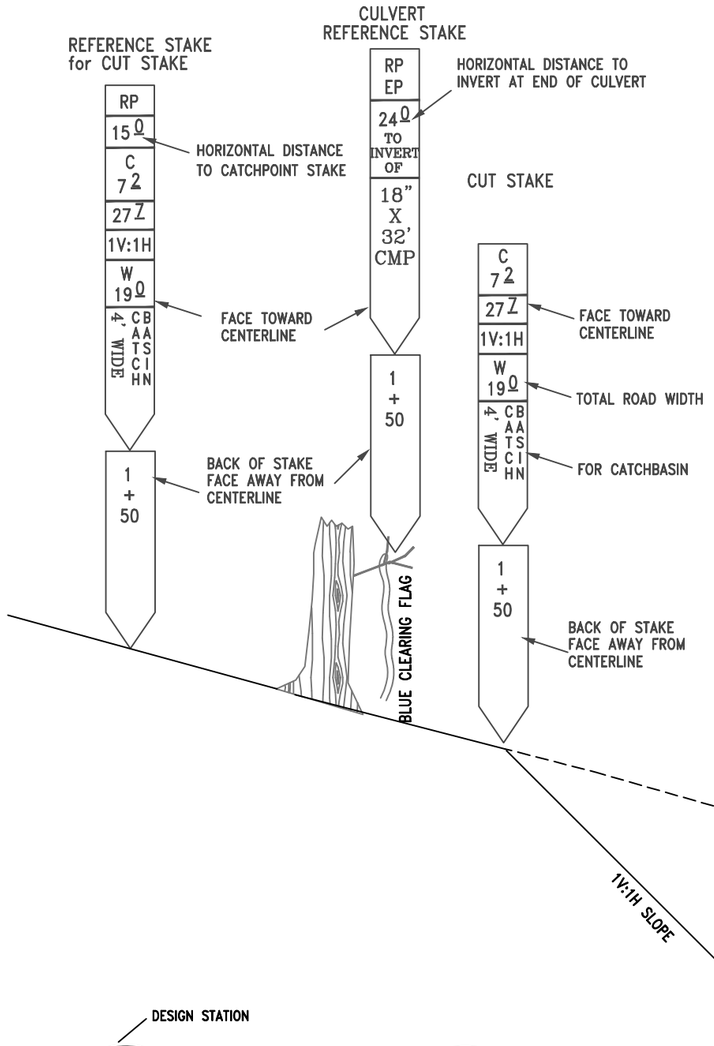
Staking Culverts: Determine the actual catch points for each side within the specified tolerance, using the theoretical catchpoint data provided as an initial starting point. Set culvert reference stakes at all culvert locations. Set a culvert reference stake on the flowline of the culvert 10 feet from each end or outside the clearing limits, whichever is greater. Record the following on these stakes:

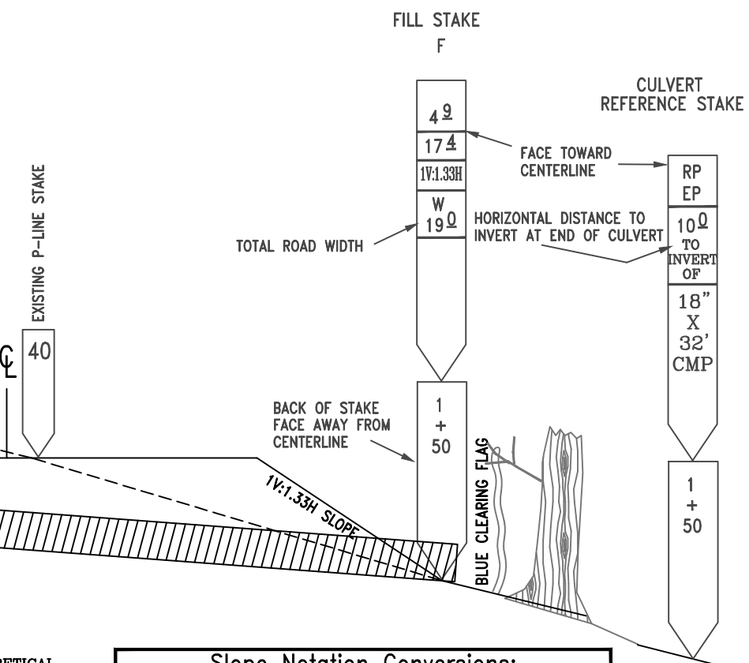
(a) Horizontal distance from the reference stake to the invert at the ends of the culvert.

(b) Diameter, length, and type of culvert.

(c) Stationing of centerline point.

Paint culvert and slope reference stakes with yellow paint. Paint cut and fill slope stakes with orange paint.





DESIGN STATION

1+50 section 40 P-LINE SECTION NO.

(AHD 25.0' 3.0° 1.0 %)

{ 4 }

THEORETICAL CATCHPOINT DATA (CATCHBASIN DATA SHOWN)

LEFT	P		L	RIGHT
C7.2 / 27.7	1000.0	GROUND ELEV	1000.3	F4.9 / 17.4
1:1	1000.0	GRADE ELEV	1000.0	1.33:1
WLT=9.0	1.0 LT	SHIFT		WRT=10.0
DITCH	C0.0	CUT/FILL	C0.3	
2:1 X -2.5 X 4.0				

OFFSET FROM P-LINE TO L-LINE

THEORETICAL CATCHPOINT DATA

THEORETICAL CUT/FILL AT ℄

TOTAL TRAVELED WAY WIDTH= 19.0 TOTAL ROAD WIDTH

LEFT 29.6 (25%) SLOPE DISTANCE P TO CATCH (-30%) RIGHT 17.1

LEFT 34.7 (5.0 OUT) SLOPE DISTANCE P TO CLEARING (10.0 OUT) RIGHT 27.1

***

SAMPLE SLOPE STAKE NOTES PRINTOUT

Slope Notation Conversions:	
Slope Ratio Shown in Staking Notes	Slope Ratio to Mark on Stakes
0.75:1	1.33V:1H
1:1	1V:1H
1.33:1	1V:1.33H
1.50:1	1V:1.5H
2:1	1V:2H

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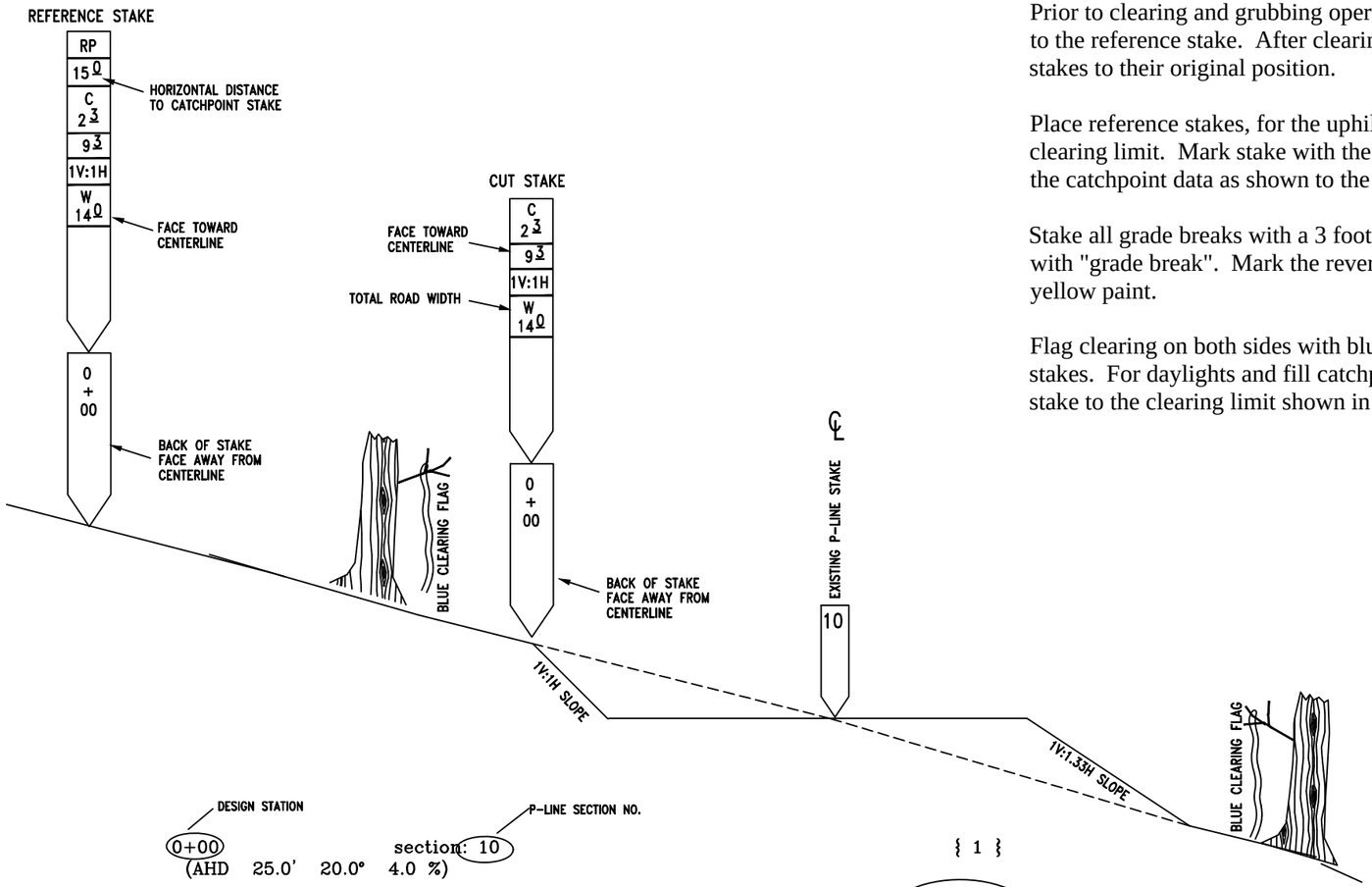
Standard Details
Construction Staking – Culvert

West Scriver Stewardship



NOTES:

Establish slope stake catchpoints for uphill side only by using the theoretical slope distance from the p-line stake to the catchpoint shown in the slope stake notes. Paint all catchpoint slope stakes orange.

Prior to clearing and grubbing operations, move the slope stake outside the clearing limits to the reference stake. After clearing and grubbing and before excavation, reset the slope stakes to their original position.

Place reference stakes, for the uphill side only, a minimum of 10 feet outside the uphill clearing limit. Mark stake with the horizontal offset distance to the catchpoint stake and the catchpoint data as shown to the left. Paint all reference stakes with yellow paint.

Stake all grade breaks with a 3 foot lath. Mark the side of the lath that faces centerline with "grade break". Mark the reverse side with the design station. Paint all lath with yellow paint.

Flag clearing on both sides with blue flagging. Clearing limits are 5 feet beyond all cut stakes. For daylights and fill catchpoints measure out the slope distance from the p-line stake to the clearing limit shown in the staking notes.

DESIGN STATION — 0+00 — P-LINE SECTION NO. — section: 10 — { 1 }

(AHD 25.0' 20.0° 4.0 %)

THEORETICAL CATCHPOINT DATA (DITCH DATA SHOWN)

LEFT	P		L	RIGHT
C2.3 / 9.3	1000.0	GROUND ELEV	1000.0	F3.5 / 11.6
1:1	1000.0	GRADE ELEV	1000.0	1.33:1
WLT=7.0				WRT=7.0
	C0.0	CUT/FILL	C0.0	

THEORETICAL CATCHPOINT DATA

THEORETICAL CUT/FILL AT ℄

TOTAL TRAVELED WAY WIDTH= 14.0 — TOTAL ROAD WIDTH

LEFT 9.6 (25%) SLOPE DISTANCE P TO CATCH (−30%) RIGHT 12.2
LEFT 14.8 (5.0 OUT) SLOPE DISTANCE P TO CLEARING (10.0 OUT) RIGHT 22.3
***

SAMPLE SLOPE STAKE NOTES PRINTOUT

Slope Notation Conversions:	
Slope Ratio Shown in Staking Notes	Slope Ratio to Mark on Stakes
0.75:1	1.33V:1H
1:1	1V:1H
1.33:1	1V:1.33H
1.50:1	1V:1.5H
2:1	1V:2H

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Standard Details
Construction Staking – Catch Point

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NOTE:

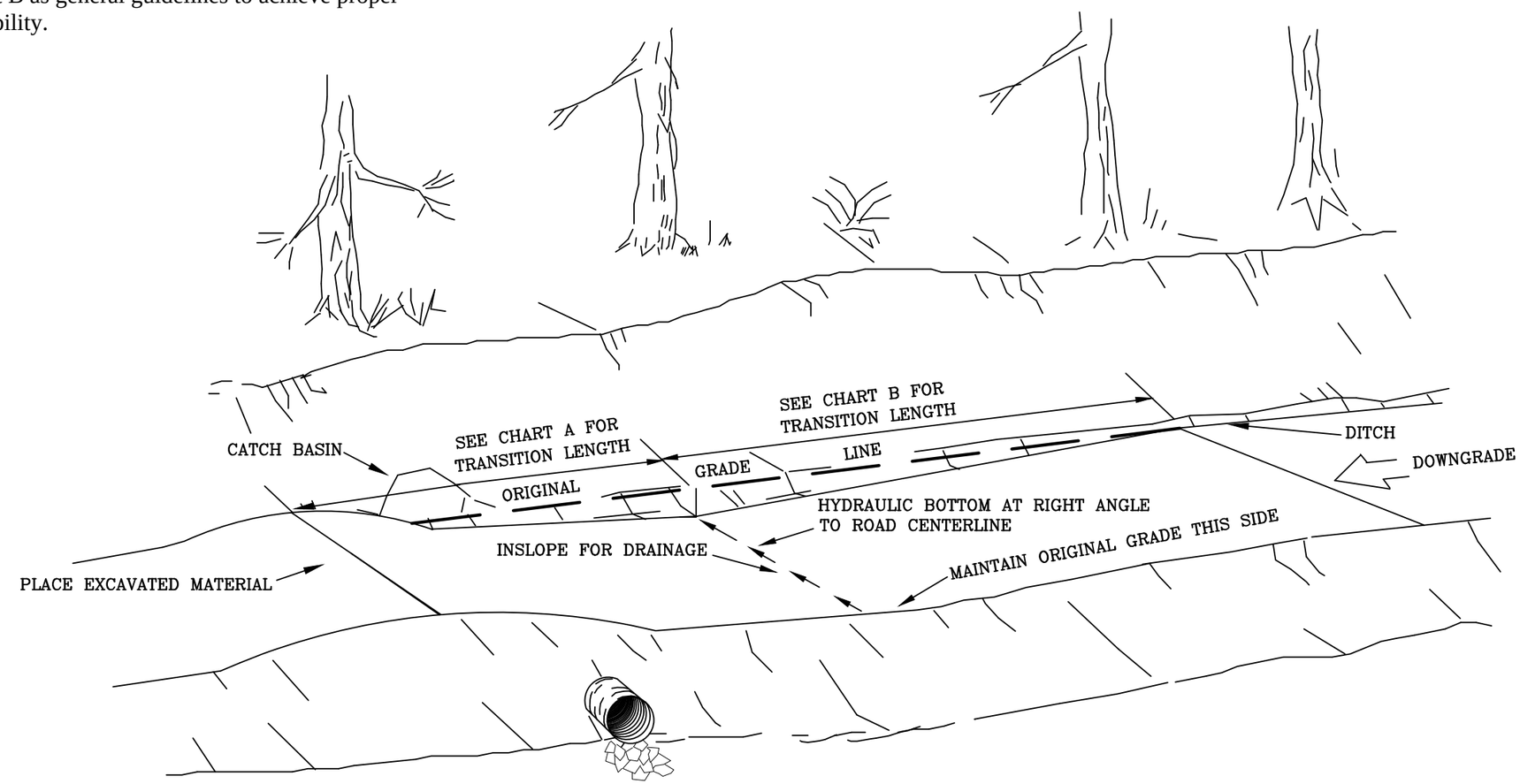
1. For ***Inslope with Ditch*** section, direct outflow to ditch line. Blend grade dip outlets into existing ditch line.

2. Cut grade dip down to ditch elevation on the ditch side. Maintain original grade on the fill side.

3. Transition lengths for grade dips vary depending on original road grade. Use Chart A and Chart B as general guidelines to achieve proper drainage and haul truck drivability.

CHART A	
ROAD GRADE	LENGTH
UP TO 3%	35'
4% TO 6%	25'
OVER 6%	15'

CHART B	
ROAD GRADE	LENGTH
UP TO 3%	65'
4% TO 6%	75'
OVER 6%	85'



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DESIGN BY: R.Smith
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Standard Details
Grade Dip – Inslope

West Scriver Stewardship

NOTE:

1. For ***Outslope*** section direct outflow to fill side of roadway.

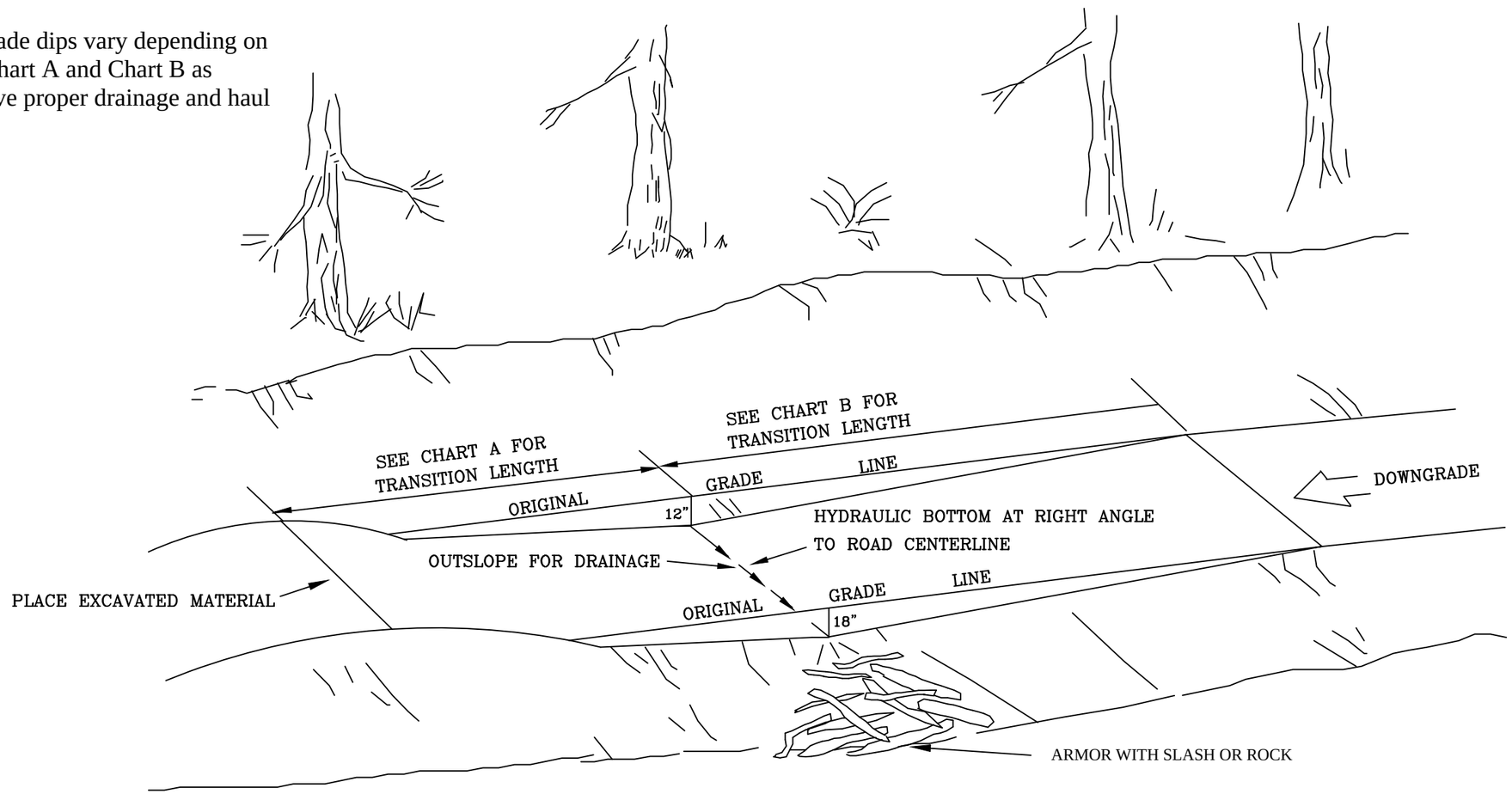
2. Armor outfall of grade dip with slash or rock where staked on the ground. Payment for armor is indirect to grade dip construction and will not be paid for separately.

3. Cut grade dip 12" deep on the cut slope side and 18" deep on the fill slope side.

4. Transition lengths for grade dips vary depending on original road grade. Use Chart A and Chart B as general guidelines to achieve proper drainage and haul truck drivability.

CHART A	
ROAD GRADE	LENGTH
UP TO 3%	35'
4% TO 6%	25'
OVER 6%	15'

CHART B	
ROAD GRADE	LENGTH
UP TO 3%	65'
4% TO 6%	75'
OVER 6%	85'



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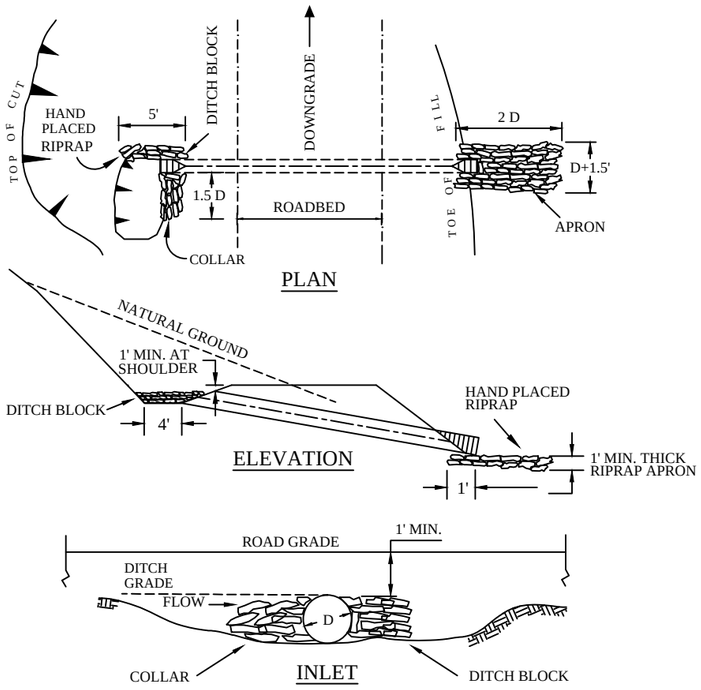
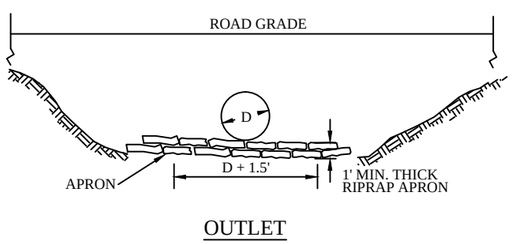
Standard Details
Grade Dip – Outslope

West Scriver Stewardship

DITCH RELIEF CULVERT





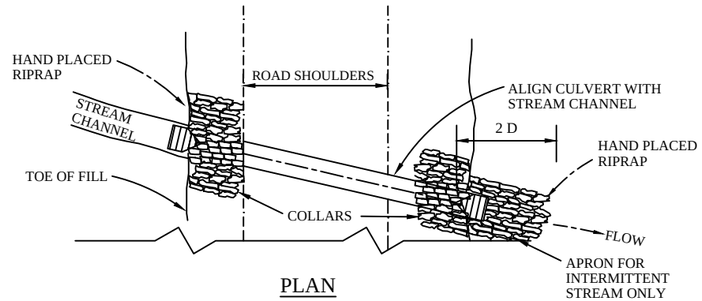
NOTE:

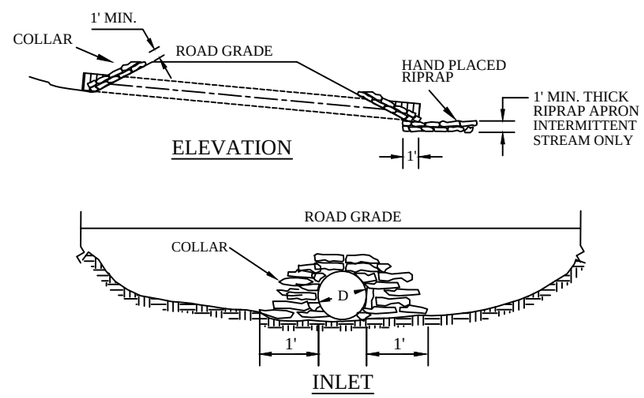
When ditch grade runs to the inlet from both sides, excavate catchbasin on both sides of culvert pipe. Place riprap for a distance of 1.5D on both sides of inlet.

ABBREVIATIONS:

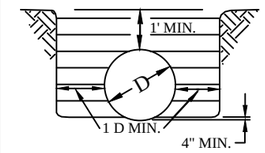
D - Diameter
CMP - Corrugated Metal Pipe

THROUGH FILL CULVERT

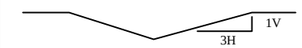




TRENCHING

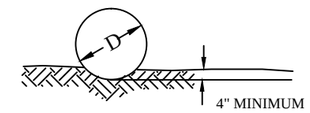


OUTLET DITCH NOTES

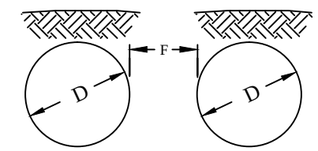


Construct V-shaped outlet ditch with 1V:3H side slopes. Round tops of slopes to blend with natural ground.

TYPICAL BEDDING DETAIL

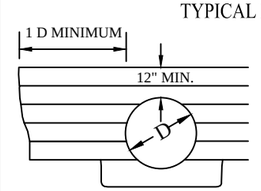


DUAL INSTALLATION



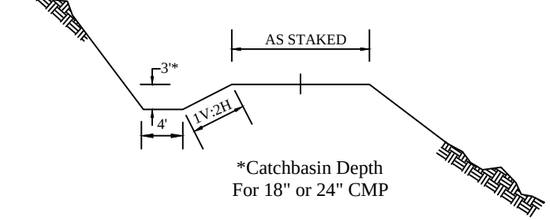
DIAMETER "D"	DISTANCE "F"
UP TO 24" 24" TO 36"	12" MIN. 1/2 "D" MIN.

TYPICAL BACKFILL DETAIL



Place suitable material in six inch layers to density called for in the specifications and compact uniformly. Shape the material to fit the bottom of the pipe.

TYPICAL CATCH BASIN



*Catchbasin Depth
For 18" or 24" CMP

GENERAL NOTES

Indirect Work Items: Hand placed riprap, catchbasin construction, pipe culvert excavation, and **seeding with mulch** are considered indirect work items to corrugated metal pipe installations. The cost of indirect items will ***not*** be paid for separately.

Hand Placed Riprap: Construct riprap collars and aprons where specified in the work description sheets. Construct riprap collars to lay on the fill slope as shown in the elevation view. Riprap collars are not vertical walls. Furnish stone used for hand placed riprap that is hard, durable, angular rock and is resistant to weathering and water action and free of organic or other unsuitable material. There is no gradation requirement for hand placed riprap. Individual stones shall weigh approximately 20 to 50 pounds.

Flow Grade: Install pipe with a minimum flow grade of 2%. Preferred flow grade is 8% where possible.

Damaged Spelter: Remove the damaged or corroded ends of existing galvanized corrugated metal pipe to be extended. If the damaged end is flame cut, wire brush the burned spelter down to clean metal and paint the area with two coats of high zinc content paint.

Live Stream Culvert Installations: Prior to the start of construction, submit a written plan that provides permanent and temporary erosion control measures to minimize erosion and sedimentation during and after construction. Do not begin work until the necessary controls for that particular phase of work have been implemented. Do not modify the type, size, or location of any control. Submit an alternate erosion control plan with all necessary permits 30 days before intended use. Incorporate all permanent erosion control features into the project at the earliest practicable time, as outlined in the approved plan. When erosion control measures are not functioning as intended, immediately take corrective action. Use temporary channels, temporary culverts, earth berms, pumps, sandbags, or other methods to divert the flow of live streams. Use a minimum of 2 Sedimats or other approved products downstream of the installation to minimize sediment transport.

These drawings and details are standard for corrugated metal pipe up to 48" diameter.

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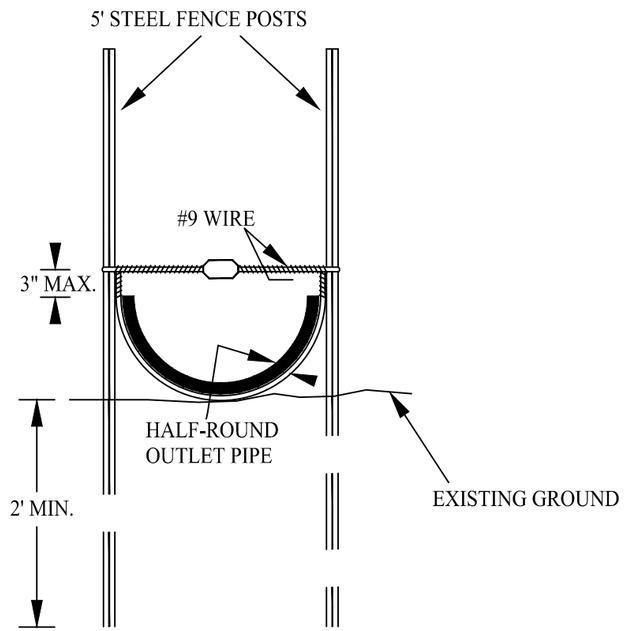
REGION 4

DESIGN BY: R.Smith CHECK: D.Woras
DRAWING BY: R.Smith CHECK: D.Woras
DRAWING NUMBER:

Standard Details
Corrugated Metal Pipe Installation

West Scriver Stewardship



Not to Scale

60602 Corrugated Half Round Outlet Pipe:

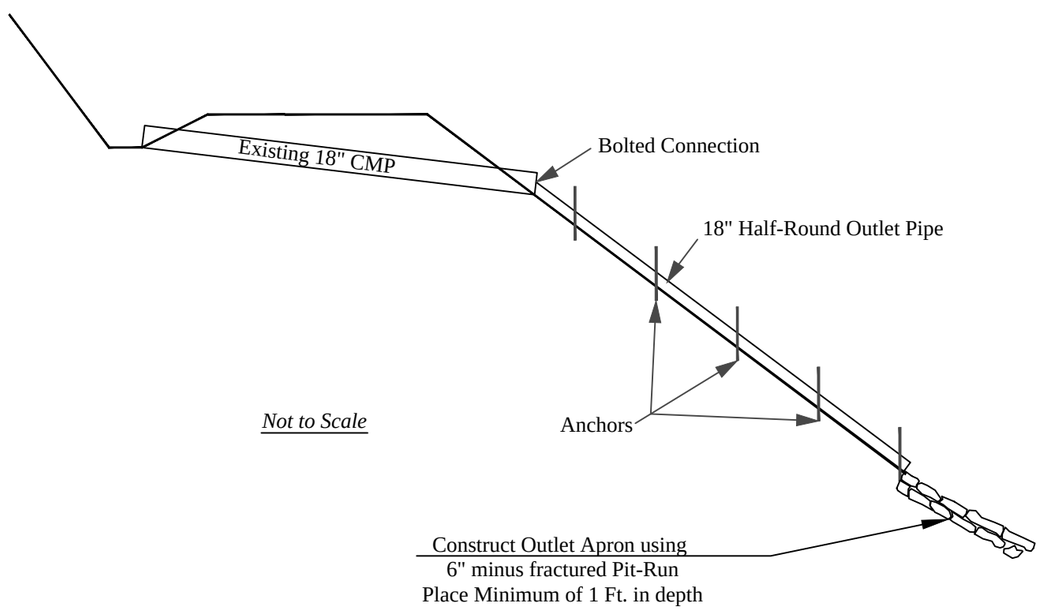
Secure sections to each other and to the culvert outlet with 3/8" dia. rust resistant bolts, nuts, and washers.

Place bolt heads on the inside of the outlet pipe to prevent debris from hanging up on the bolt ends.

Anchor outlet pipe in place with steel fence posts, installed in pairs at about 15' intervals beginning as close to the culvert outlet as possible. Install the last pair of fence posts within 2' of the end of the half-round outlet pipe.

Secure the outlet pipe to the steel fence posts with smooth #9 galvanized wire as shown in the detail. Place the half round so that it is in constant ground contact.

Construct outlet apron using 6" minus fractured rock. Place minimum of 1 foot in depth, 6 foot length, and 3 foot width. Payment for the apron in indirect to 60602.



Not to Scale

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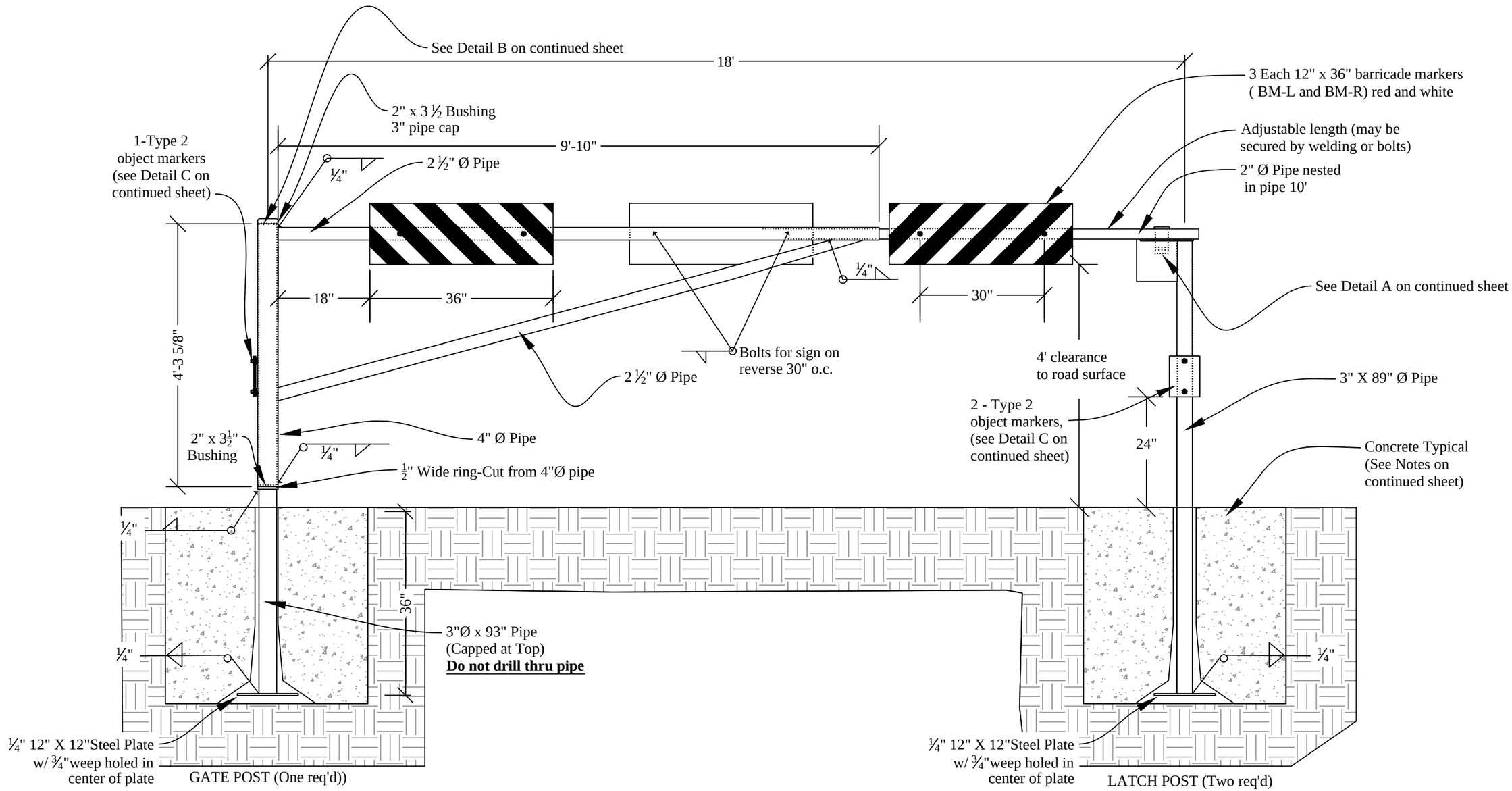
REGION 4

DESIGN BY: R.Smith
CHECK: D.Woras
DRAWING BY: R.Smith
CHECK: D.Woras
DRAWING NUMBER:

Standard Details
Corrugated Metal Half-Round Spillway

West Scriver Stewardship



NOTES ON SIGNS
1. Bolt all signs to arm, do not drill through arm
2. Mount road closed sign above centerline
3. All signs are a 0.08" thickness

CLOSED GATE ELEVATION VIEW

NOT TO SCALE

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Boise National Forest
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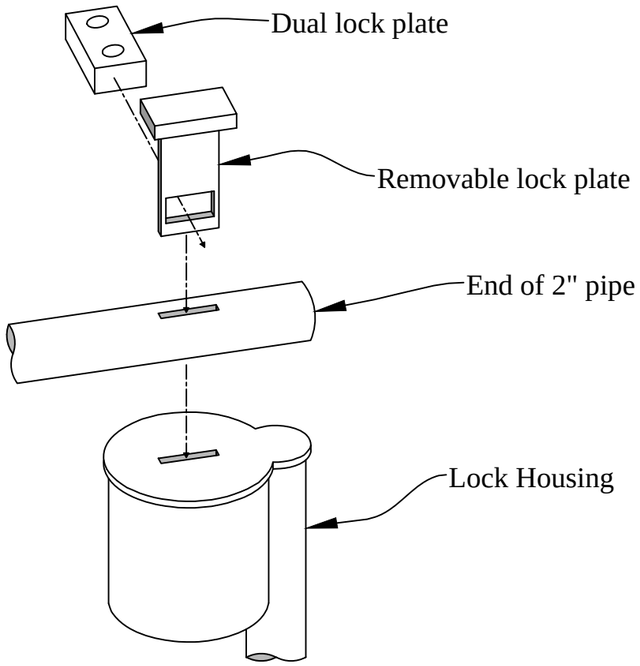
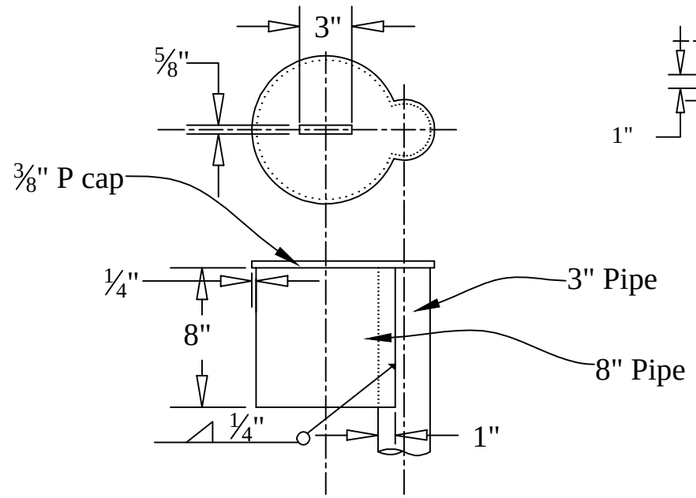
DESIGN BY: R.Smith CHECK: D.Woras
DRAWING BY: R.Smith CHECK: D.Woras
DRAWING NUMBER:

Standard Details
Typical Forest Service Gate

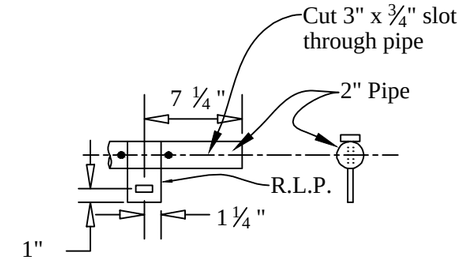
West Scriver Stewardship



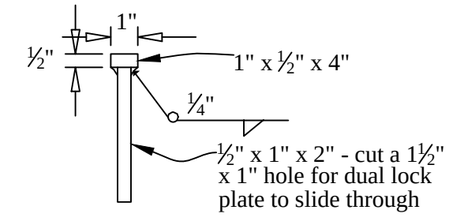
Detail A - Latch Detail



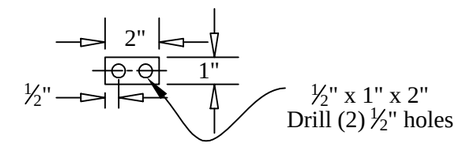
LOCK HOUSING



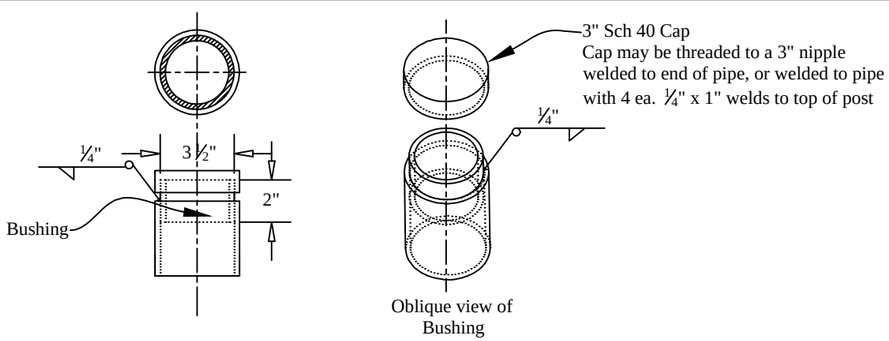
END OF 2" PIPE



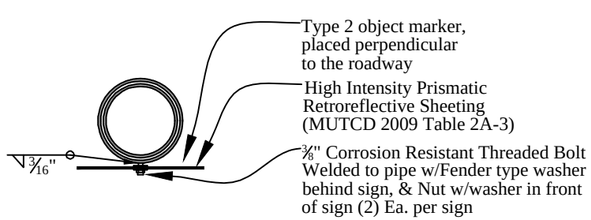
REMOVABLE LOCK PLATE
(R.L.P.)



DUAL LOCK PLATE



DETAIL - B
2" x 3 1/2"Bushing



DETAIL - C
Type 2 Object Marker
(OM2)

Notes:

1. All concrete work shall conform to **FP-03 Section 601- Minor Concrete Structures.**
2. All pipe and fittings shall be black, Sch. 40 standard weight unless otherwise noted, conforming to **ASTM A120**. Steel plate shall conform to **ASTM A36**.
3. Welding shall be done in accordance with the best modern practice and the applicable requirements of **American Welding Society D.1.1.** Exposed edges on lock housing and 2" pipe shall be ground smooth and slightly rounded.
4. Painting of gate and all appurtenances shall conform to the following.
   - A. All edges will be de-burred prior to final assembly and paint.
   - B. All grease, oil, and welding slag will be removed prior to application of primer paint.
   - C. All members shall receive two coats of RED OXIDE Primer paint after fabrication. Use **Kelly Moore Part #1710-120 - Red Oxide Primer 120** paint or equal.
   - D. All members shall receive two coats of Oxford Brown Acrylic Low-Sheen Paint. Use **Kelly Moore Part #1245-417** paint or equal.
   - E. Touch up all areas in the field, damaged during transportation and handling.

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Boise National Forest
Engineering
REGION 4

	BY:	CHECK:
DESIGN	R.Smith	D.Woras
DRAWING	R.Smith	D.Woras

DRAWING NUMBER:

Standard Details
Typical Forest Service Gate (cont.)

West Scriver Stewardship

ROAD NO.	STATION	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
693(R)	0+00				Begin reconstruction	16 Ft. inslope road with turnouts. Project begins approx 1.10 miles from the Jct. of Middle Fk. Payette River Rd. and Scriver Cr. Rd.
	0+00 - 89+55	20103	1.70	Mile	Clearing and Grubbing, Slash Treatment Methods for Top and Limbs f, Logs f, and Stumps f	See Typical Sections & Construction Notes
	0+00 - 89+55	20402	1.70	Mile	Roadway Excavation, Compaction Method C, Finishing Method A	Improve existing turnouts, grade dips and ditch lines. Clean and recondition all culvert catch basins and outlets. See Typical Sections & Construction Notes
	0+00 - 89+55	30322B	1.70	Mile	Road Reconditioning, Compaction Method B	Maintain existing template, inslope with ditch. Scarify traveled way and turnouts to a 3 inch depth, reprocess and compact.
	0+00 - 89+55	32232B	1200	C.Y.	Furnish and Place Base Course Aggregate, Grading D, Compaction B	Place 2 additional inches of compacted aggregate depth on existing traveled way and turnouts which have existing surface aggregate. Place 3 inches of aggregate on turnouts without existing surface aggregate.
	3+50	60710	1	Each	Reconditioning drainage structure	Reconstruct catch basin, and outlet. Repair culvert inlet.
		25101	5	C.Y.	Machine Placed Riprap, Class 3	Place riprap at culvert outlet
	4+60					Existing Turnout
	5+20					Existing Turnout
	9+00					Existing Turnout
	13+95	60710	1	Each	Reconditioning drainage structure	Reconstruct catch basin, and outlet. Repair culvert inlet.
	17+05	25101	5	C.Y.	Machine Placed Riprap, Class 3	Place riprap on fill slope to rebuild road shoulder
	20+70	52101	10	C.Y.	Machine Placed Riprap, Class 3	Place riprap to repair left shoulder of road
	22+35	60710	1	Each	Reconditioning drainage structure	Reconstruct catch basin, and outlet. Repair culvert inlet.
	29+50	60265A	40	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	35+10					Existing Turnout, Water Source
	41+60	25101	10	C.Y.	Machine Placed Riprap, Class 3	Place riprap at culvert outlet
	42+75					Existing Turnout
	47+10	32232C	5	C.Y.	Haul and Place Pit Run, Maximum Size 4"	Reconstruct road shoulder
	48+10	20301A	1	Each	Removal of Culvert, Disposal Method A	Disposal by removal from National Forest Lands
		60265A	42	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer

U. S. Department of Agriculture
FOREST SERVICE
Boise National Forest
Engineering
REGION 4

DESIGN BY: R.Smith CHECK: D.Woras
DRAWING BY: R.Smith CHECK: D.Woras
DRAWING NUMBER:

Description of Work
NFSR #693

West Scriver Stewardship

ROAD NO.	STATION	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
693(R)	51+30	60710	1	Each	Reconditioning drainage structure	Reconstruct catch basin, and outlet. Repair culvert inlet
	53+65	20301A	1	Each	Removal of Culvert, Disposal Method A	Disposal by removal from National Forest Lands
		60265B	42	L.F.	24" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
		32232C	10	C.Y.	Haul and Place Pit Run, Maximum Size 4"	Repair road shoulder
		25101	5	C.Y.	Machine Placed Riprap, Class 3	Place riprap at culvert outlet
	55+85	25101	5	C.Y.	Machine Placed Riprap, Class 3	Place riprap below culvert outlet and on fill slope
	59+00					Existing Turnout
	66+75					Existing Turnout
	68+90	20301A	1	Each	Removal of Culvert, Disposal Method A	Disposal by removal from National Forest Lands
		60265A	42	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
		32232C	10	C.Y.	Haul and Place Pit Run, Maximum Size 4"	Widen road 2 Ft., left
	72+85					Existing Turnout
	77+85					Existing Turnout
	80+55	20301A	1	Each	Removal of Culvert, Disposal Method A	Disposal by removal from National Forest Lands
		60265A	36	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
		32232C	60	C.Y.	Haul and Place Pit Run, Maximum Size 4"	Widen road 3 feet left to Sta. 81+15
	81+35					Existing Turnout
	85+70					Existing Turnout
	87+50	20301A	1	Each	Removal of Culvert, Disposal Method A	Disposal by removal from National Forest Lands
		60265A	36	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	89+55				End of project	**Entering National Forest Land**

ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
693M(R)	0+00				Begin reconstruction	14 Ft. road with turnouts. Starts at the Junction with NFSR #693 at Station 485+15
	0+00 - 123+50	20103	2.34	Mile	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f, Logs f, and Stumps f	See Typical Sections & Construction Notes
	0+00 - 123+50	20402	2.34	Mile	Roadway Excavation, Compaction Method C, Finishing Method A	Improve existing turnouts, grade dips and ditch lines. Clean and recondition all culvert catch basins and outlets
	0+00 - 123+50	30322A	2.34	Mile	Road Reconditioning, Compaction Method A	Maintain existing template
	0+00 - 1+00	32232B	20	C.Y.	Furnish and Place Base Course Aggregate, Grading D, Compaction B	Place aggregate, 4 inch compacted in place depth, 16 foot width
	1+30	20426	1	Each	Construct Grade Dip	
	2+80	20301B	1	Each	Removal of Gate, Disposal Method A	Remove gate and concrete and dispose of by removal from National Forest Lands.
	2+80	65001	1	Each	Furnish and install road closure device, type Gate, size 16'	Final location to be approved prior to installation by the Engineer
	12+80	20301C	1	Each	Removal of Neoprene Down Pipe, Disposal Method A	Dispose of by removal from National Forest Lands
		25101	10	C.Y.	Machine Placed Riprap, Class 3	Place riprap below the culvert outlet
	14+40	20426	1	Each	Construct Grade Dip	
	16+90	20426	1	Each	Construct Grade Dip	
	23+40	20426	1	Each	Construct Grade Dip	
	25+00 - 26+05					Borrow source
	26+15 - 27+50					Remove wood debris from embankment, dispose adjacent to site, as directed by the Engineer
	27+40 - 30+40	32232B	60	C.Y.	Furnish and Place Base Course Aggregate, Grading D, Compaction B	Place aggregate, 4 inch compacted in place depth, full width of roadway
	28+90	20301A	1	Each	Removal of Culvert, Disposal Method A	Disposal by removal from National Forest Lands
		60265E	50	L.F.	Install 48" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	28+90 - 33+00	20402				Construct ditch line
	30+00	20426	1	Each	Construct Grade Dip	
		32232C	10	C.Y.	Haul and Place Pit Run, Maximum Size 4"	Place pit run, armor dip outfall
	31+35	20301A	1	Each	Removal of Culvert, Disposal Method A	Disposal by removal from National Forest Lands
		60265A	32	L.F.	Install 18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer

U. S. Department of Agriculture
FOREST SERVICE
Boise National Forest
Engineering
REGION 4

DESIGN BY: R.Smith CHECK: D.Woras
DRAWING BY: R.Smith CHECK: D.Woras
DRAWING NUMBER:

Description of Work
NFSR #693M

West Scriver Stewardship

ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
693M(R)	32+25	20301A	1	Each	Removal of Culvert, Disposal Method A	Disposal by removal from National Forest Lands
		60265A	40	L.F.	Install 18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	37+85	20426	1	Each	Construct Grade Dip	
	38+05 - 38+50	20402				Reconstruct fill slope using material from Sta. 25+00 - 26+05. Rebuild from the toe of fill using rocky material from borrow site, then finish the repair using material from adjacent cutbanks.
	41+80	20426	1	Each	Construct Grade Dip	
	43+45	20301A	1	Each	Removal of Culvert, Disposal Method A	Disposal by removal from National Forest Lands
		60265A	40	L.F.	Install 18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	49+50	20426	1	Each	Construct Grade Dip	
	51+55	25101	5	C.Y.	Machine Placed Riprap, Class 3	Place riprap below the culvert outlet
	52+70	20426	1	Each	Construct Grade Dip	
	56+20	20301A	1	Each	Removal of Culvert, Disposal Method A	Disposal by removal from National Forest Lands
		60265A	34	L.F.	Install 18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	57+00	20426	1	Each	Construct Grade Dip	
	57+00					Junction with NFSR #693M1(R), Left
	71+05					Junction with NFSR #693N(R), Right
	75+80	20426	1	Each	Construct Grade Dip	
	76+60 - 77+25	20402				Reconstruct fill slope using material from Sta. 25+00 - 26+05. Rebuild from the toe of fill using rocky material from borrow site, then finish the repair using material from adjacent cutbanks.
	79+00	20426	1	Each	Construct Grade Dip	
	88+45					Existing 24" CMP
	87+45 - 89+45	32232B	40	CY	Furnish and Place Base Course Aggregate, Grading D, Compaction B	Place aggregate, 4 inch compacted in place depth, full width of roadway
	100+40	20426	1	Each	Construct Grade Dip	
	123+50				End of Project	

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Boise National Forest
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REGION 4

DESIGN BY: R.Smith
CHECK: D.Woras
DRAWING BY: R.Smith
CHECK: D.Woras
DRAWING NUMBER:

Description of Work
NFSR #693M (cont.)

West Scriver Stewardship

ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
693M1(R)	0+00				Begin reconstruction	14 Ft. road with turnouts. Starts at the Junction with NFSR #693M(R) at Station 57+00
	0+00 - 31+50	20103	0.60	Mile	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f, Logs f, and Stumps f	See Typical Sections & Construction Notes
	0+00 - 31+50	20402	0.60	Mile	Roadway Excavation, Compaction Method C, Finishing Method A	Improve existing turnouts, grade dips and ditch lines. Clean and recondition all culvert catch basins and outlets
	0+00 - 31+50	30322A	0.60	Mile	Road Reconditioning, Compaction Method A	Maintain existing template
	0+10 - 1+45	20402				Reconstruct ditch, right
	1+45	20426	1	Each	Construct Grade Dip	
	7+30 - 7+80	20402				Remove cutbank slump. Dispose of material on existing roadway as directed by the Engineer
	10+10	60710	1	Each	Reconditioning drainage structure	Repair catch basin, flush culvert
	13+75	20402				Remove cutbank slump. Dispose of material on existing roadway as directed by the Engineer
	14+85	60265A	40	L.F.	Install 18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	16+50	20402			Reconstruct road template using material from adjacent cutbanks	
	18+30					Existing CMP
	31+50				End project prior to washout	

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Boise National Forest
Engineering
REGION 4

DESIGN BY: R.Smith CHECK: D.Woras
DRAWING BY: R.Smith CHECK: D.Woras
DRAWING NUMBER:

Description of Work
NFSR #693M1

West Scriver Stewardship

ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
693N(R)	0+00				Begin reconstruction	14 Ft. road with turnouts. Starts at the Junction with NFSR #693M(R) at Station 71+05
	0+00 - 23+90	20103	0.45	Mile	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f, Logs f, and Stumps f	See Typical Sections & Construction Notes
	0+00 - 23+90	20402	0.45	Mile	Roadway Excavation, Compaction Method C, Finishing Method A	Improve existing turnouts, grade dips and ditch lines. Clean and recondition all culvert catch basins and outlets
	0+00 - 23+90	30322A	0.45	Mile	Road Reconditioning, Compaction Method A	Maintain existing template
	1+90	20426	1	Each	Construct Grade Dip	
	4+40	20426	1	Each	Construct Grade Dip	
	7+50	20402				Remove small slide, and dispose of material on roadway as directed by the C.O.
	7+90	20301A	1	Each	Removal of Culvert, Disposal Method A	Disposal by removal from National Forest Lands
		60265A	34	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A - 20º skew	Final location to be approved prior to installation by the Engineer
	8+15					Existing Dip
	9+05	20301A	1	Each	Removal of Culvert, Disposal Method A	Disposal by removal from National Forest Lands
		60265A	36	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A - 20º skew	Final location to be approved prior to installation by the Engineer
	10+30	20426	1	Each	Construct Grade Dip	
	12+75	20426	1	Each	Construct Grade Dip	
	14+70	20426	1	Each	Construct Grade Dip	
	19+95	20426	1	Each	Construct Grade Dip	
	22+45	20426	1	Each	Construct Grade Dip	
	23+90				End of Project	Junction with NFSR #693N1.

U. S. Department of Agriculture
FOREST SERVICE
Boise National Forest
Engineering
REGION 4

DESIGN BY: R.Smith CHECK: D.Woras
DRAWING BY: R.Smith CHECK: D.Woras
DRAWING NUMBER:

Description of Work
NFSR #693N

West Scriver Stewardship

ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
693O(R)	0+00				Begin reconstruction	14 Ft. road with turnouts. Starts at the Junction with NFSR #693 at Station 477+55
	0+00 - 185+90	20103	3.52	Mile	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f, Logs f, and Stumps f	See Typical Sections & Construction Notes
	0+00 - 185+90	20402	3.52	Mile	Roadway excavation - Compaction Method C, Finishing Method A	Improve existing turnouts, grade dips and ditch lines. Clean and recondition all culvert catch basins and outlets
	0+00 - 185+90	30322A	3.52	Mile	Road Reconditioning, Compaction Method A	Maintain existing template
	0+00 - 1+00	32232B	35	C.Y.	Furnish and Place Base Course Aggregate, Grading D, Compaction Method B	Place aggregate, 4 inch compacted in place depth, full width of roadway
	0+37	20402				Re-establish ditch from existing CMP back to NFSR #693, and ahead to Sta. 0+50
	1+55	20301B	1	Each	Removal of Gate, Disposal Method A	Remove gate and concrete and dispose of by removal from National Forest Lands.
	1+55	65001	1		Furnish and install road closure device, type Gate, size 16'	Final location to be approved prior to installation by the Engineer.
	4+40	20426	1	Each	Construct Grade Dip	
	8+45	20402				Remove stump in roadbed. Repair surface.
	13+50	20426	1	Each	Construct Grade Dip	
	21+90	20402				Remove stump in right shoulder. Repair surface.
	39+85 - 42+20	20402				Re-establish ditch
	39+85					Existing 24" CMP
	38+85 - 40+85	32232B	40	CY	Furnish and Place Base Course Aggregate, Grading D, Compaction Method B	Place aggregate, 4 inch compacted in place depth, full width of roadway
	44+95 - 46+55	20402				Re-establish ditch
	55+60 - 56+50	20402				Re-establish ditch
	62+30	20426	1	Each	Construct Grade Dip	
	83+75					Junction with NFSR #693P, right

U. S. Department of Agriculture
FOREST SERVICE
Boise National Forest
Engineering
REGION 4

DESIGN BY: R.Smith CHECK: D.Woras
DRAWING BY: R.Smith CHECK: D.Woras
DRAWING NUMBER:

Description of Work
NFSR #6930

West Scriver Stewardship

ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
693O(R)	84+35	20426	1	Each	Construct Grade Dip	
	87+35	20426	1	Each	Construct Grade Dip	
	96+50					Existing turnaround
	119+60					Junction with NFSR #693R(R), right
	134+40	20426	1	Each	Construct Grade Dip	
	142+25	20426	1	Each	Construct Grade Dip	
	170+70	20301A	1	Each	Removal of Culvert, Disposal Method A	Disposal by removal from National Forest Lands
		60265A	42	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	178+15					Existing 24" CMP
	177+15 - 179+15	32232B	40	CY	Furnish and Place Base Course Aggregate, Grading D, Compaction Method B	Place aggregate, 4 inch compacted in place depth, full width of roadway
	185+90	20402			End of Project	Reconstruct existing turnaround

U. S. Department of Agriculture
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Boise National Forest
Engineering
REGION 4

DESIGN BY: R.Smith CHECK: D.Woras
DRAWING BY: R.Smith CHECK: D.Woras
DRAWING NUMBER:

Description of Work
NFSR #6930 (cont.)

West Scriver Stewardship

ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
693R(R)	0+00				Begin reconstruction	14 Ft. road with turnouts. Starts at the Junction with NFSR #693O(R) at Station 119+60
	0+00 - 74+00	20103	1.40	Mile	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f, Logs f, and Stumps f	See Typical Sections & Construction Notes
	0+00 - 74+00	20402	1.40	Mile	Roadway Excavation, Compaction Method C, Finishing Method A	Improve existing turnouts, grade dips and ditch lines. Clean and recondition all culvert catch basins and outlets
	0+00 - 74+00	30322A	1.40	Mile	Road Reconditioning, Compaction Method A	Maintain existing template
	1+70	60265A	32	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	8+90	20426	1	Each	Construct Grade Dip	
	12+00	20426	1	Each	Construct Grade Dip	
	25+00	20426	1	Each	Construct Grade Dip	
	27+30	20426	1	Each	Construct Grade Dip	
	32+50	20426	1	Each	Construct Grade Dip	
	37+65	20426	1	Each	Construct Grade Dip	
	43+50	20426	1	Each	Construct Grade Dip	
	51+85	20426	1	Each	Construct Grade Dip	
	65+90	20426	1	Each	Construct Grade Dip	
		32232C	10	C.Y.	Haul and Place Pit Run, Maximum Size 4"	Armor grade dip outfall with pit run
	72+75	20426	1	Each	Construct Grade Dip	
	74+00				End of Project	

U. S. Department of Agriculture
FOREST SERVICE
Boise National Forest
Engineering
REGION 4

DESIGN BY: R.Smith CHECK: D.Woras
DRAWING BY: R.Smith CHECK: D.Woras
DRAWING NUMBER:

Description of Work
NFSR #693R

West Sriver Stewardship

ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
694(R)	0+00				Begin reconstruction	16 Ft. road with turnouts. Starts at the Junction with NFSR #693 at Station 542+20
	0+00 - 77+55	20103	1.47	Mile	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f, Logs f, and Stumps f	See Typical Sections & Construction Notes
	0+00 - 77+55	20402	1.47	Mile	Roadway Excavation, Compaction Method C, Finishing Method A	Improve existing turnouts, grade dips and ditch lines. Clean and recondition all culvert catch basins and outlets
	0+00 - 77+55	30322A	1.47	Mile	Road Reconditioning, Compaction Method A	Maintain existing template
	0+00 - 1+85	32232B	40	C.Y.	Furnish and Place Base Course Aggregate, Grading D, Compaction B	Place aggregate, 4 inch compacted in place depth.
	0+70	32232B	20	C.Y.	Furnish and Place Base Course Aggregate, Grading D, Compaction B	Place aggregate on north approach. Place aggregate, 4 inch compacted in place depth.
	1+00	65001	1	Each	Furnish and install road closure device, type Gate, size 16'	Final location to be approved prior to installation by the Engineer
	1+85	20426	1	Each	Construct Grade Dip	
	3+60	20426	1	Each	Construct Grade Dip	
	12+30	20426	1	Each	Construct Grade Dip	
	19+60	20426	1	Each	Construct Grade Dip	
	23+55	20426	1	Each	Construct Grade Dip	
	25+20	20426	1	Each	Construct Grade Dip	
	27+35	20426	1	Each	Construct Grade Dip	
		32232C	10	C.Y.	Haul and Place Pit Run, Maximum Size 4"	Place pit run, armor dip outfall
	27+95	20426	1	Each	Construct Grade Dip	
	28+00 - 31+50	32232B	60	C.Y.	Furnish and Place Base Course Aggregate, Grading D, Compaction B	Place aggregate, 4 inch compacted in place depth.
	29+50	20301A	1	Each	Removal of Culvert, Disposal Method A	Disposal by removal from National Forest Lands
		32232C	100	C.Y.	Haul and Place Pit Run, Maximum Size 4"	Place pit run aggregate compaction method "B" to bring road to full width, prior to surface aggregate placement.
		60265C	42	L.F.	30" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	30+95	20426	1	Each	Construct Grade Dip	

U. S. Department of Agriculture
FOREST SERVICE
Boise National Forest
Engineering
REGION 4

DESIGN BY: R.Smith CHECK: D.Woras
DRAWING BY: R.Smith CHECK: D.Woras
DRAWING NUMBER:

Description of Work
NFSR #694

West Scriver Stewardship

ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
694(R)	35+25					Existing Dip
	36+40	20301A	1	Each	Removal of Culvert, Disposal Method A	Disposal by removal from National Forest Lands.
		60265A	38	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	36+40 - 37+00	20402				Construct 60 L.F. of Ditch right
	39+10	20426	1	Each	Construct Grade Dip	
	45+15	20426	1	Each	Construct Grade Dip	
	48+50	20426	1	Each	Construct Grade Dip	
	52+80	20426	1	Each	Construct Grade Dip	
	59+15					Junction with NFSR #696A, left
	61+15	20426	1	Each	Construct Grade Dip	
	64+65	20426	1	Each	Construct Grade Dip	
	65+85	20426	1	Each	Construct Grade Dip	
	72+70 - 73+25	20402				Construct 55 L.F. of Ditch Right
	73+25	20426	1	Each	Construct Grade Dip	
		32232C	20	C.Y.	Haul and Place Pit Run, Maximum Size 4"	Place armor on dip and ditch line
	76+75	20426	1	Each	Construct Grade Dip	
	77+55				End of Project	

U. S. Department of Agriculture
FOREST SERVICE
Boise National Forest
Engineering
REGION 4

DESIGN BY: R.Smith CHECK: D.Woras
DRAWING BY: R.Smith CHECK: D.Woras
DRAWING NUMBER:

Description of Work
NFSR #694 (cont.)

West Scriver Stewardship

ROAD NO.	STATION	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
695(R)	0+00				Begin reconstruction	16 Ft. inslope road with turnouts. Existing aggregate surface. Starts at the Junction with NFSR #693 at Station 246+95
	0+00 - 219+30	20103	4.15	Mile	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f, Logs f, and Stumps f	See Typical Sections & Construction Notes
	0+00 - 219+30	20402	4.15	Mile	Roadway Excavation, Compaction Method C, Finishing Method A	Improve existing turnouts, grade dips and ditch lines. Clean and recondition all culvert catch basins and outlets. See Typical Sections & Construction Notes.
	0+00 - 219+30	30322B	4.15	Mile	Road Reconditioning, Compaction Method B	Maintain existing template, inslope with ditch
	4+20	20301B	1	Each	Removal of Gate, Disposal Method A	Remove and dispose of gate and concrete by removal from National Forest Lands
	5+05					Existing Dip
	11+20					Existing Turnout
	18+00	20301C	1	Each	Removal of Neoprene Down Pipe, Disposal Method A	Remove and dispose of flexible downspout by removal from National Forest Lands
		60602	24	L.F.	Half Round Spillway Assembly, 18" Corrugated Steel Pipe, 0.064 inch Thickness	
	27+65					Existing Turnout
	30+15					Existing Turnout
	35+50					Existing Turnout
	38+40					Existing Turnout
	42+85					Existing Turnout
	56+40					Existing Turnout
	58+50					Junction with NFSR #696(R), right
	61+20					Existing Turnout
	65+85					Existing Turnout
	67+60					Existing Turnout
	70+65					Existing Dip
	71+35					Existing Turnout
	77+75					Existing Turnout
	82+05					Existing Turnout
	93+75					Existing Dip
	97+65					Existing Turnout

U. S. Department of Agriculture
FOREST SERVICE
Boise National Forest
Engineering
REGION 4

DESIGN BY: R.Smith
CHECK: D.Woras
DRAWING BY: R.Smith
CHECK: D.Woras
DRAWING NUMBER:

Description of Work
NFSR #695

West Scriver Stewardship

ROAD NO.	STATION	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
695(R)	101+50					16 Ft. inslope road with turnouts. Existing aggregate surface.
						Middle Fk. Scriver Cr.
	110+00					Existing Turnout
	118+00					Existing Turnout
	121+50					Existing Turnout
	125+45					Existing Dip
	125+45 - 126+40	20402			Remove berm	
	125+80	60265A	44	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be staked by the Engineer
		25101	10	C.Y.	Machine Placed Riprap, Class 3	Place riprap below culvert oultet
		32232B	40	C.Y.	Furnish and Place Base Course Aggregate, Grading D, Compaction B	Place aggregate, 4 inch compacted in place depth on traveled way across new culvert installation
	126+40					Junction with NFSR #695B(R), left & NFSR #695A(R), right
	127+95					Existing Turnout
	130+65					Existing Turnout
	135+20					Existing Turnout
	139+15					Existing Turnout
	139+20					Existing Turnout
	146+70					Existing Turnout
	148+45					Existing 30 inch CMP. Live stream
	149+00 - 151+00	20402			Construct 20 foot wide turnout by excavating downhill side of thru-cut material	
		32232B	40	C.Y.	Furnish and Place Base Course Aggregate, Grading D, Compaction B	Place aggregate, 4 inch compacted in place depth on traveled way across new turnout
	177+60					Existing Turnout
	179+00					Existing Turnout
	182+29					Existing 30 inch CMP. Live stream
	183+80					Existing Turnout
	219+30				End of Project	Existing Turnout. Junction with NFSR# 695D(R), right

U. S. Department of Agriculture
FOREST SERVICE
Boise National Forest
Engineering
REGION 4

DESIGN BY: R.Smith
CHECK: D.Woras
DRAWING BY: R.Smith
CHECK: D.Woras
DRAWING NUMBER:

Description of Work
NFSR #695 (cont.)

West Scriver Stewardship

ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
695A(R)	0+00				Begin reconstruction	14 Ft. road with turnouts. Starts at the Junction with NFSR #695 at Station 126+40
	0+00 - 35+00	20103	0.66	Mile	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f, Logs f, and Stumps f	See Typical Sections & Construction Notes
	0+00 - 35+00	20402	0.66	Mile	Roadway Excavation, Compaction Method C, Finishing Method A	Improve existing turnouts, grade dips and ditch lines. Clean and recondition all culvert catch basins and outlets
	0+00 - 35+00	30322A	0.66	Mile	Road Reconditioning, Compaction Method A	Maintain existing template
	0+00 - 7+00	32232C	180	CY	Haul and Place Pit Run, Maximum Size 4", Compaction Method B	Place aggregate, 6 inch compacted in place depth, traveled way, and turnouts.
	1+90	20426	1	Each	Construct Grade Dip	
	4+00	20426	1	Each	Construct Grade Dip	
	35+00				End of project (on ridge)	

U. S. Department of Agriculture
FOREST SERVICE
Boise National Forest Engineering
REGION 4

DESIGN BY: R.Smith
CHECK: D.Woras
DRAWING BY: R.Smith
CHECK: D.Woras
DRAWING NUMBER:

Description of Work
NFSR #695A

West Scriver Stewardship

ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
695B(R)	0+00				Begin reconstruction	14 Ft. road with turnouts. Starts at the Junction with NFSR #695
	0+00 - 60+00	20103	1.14	Mile	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f, Logs f, and Stumps f	See Typical Sections & Construction Notes
	0+00 - 60+00	20402	1.14	Mile	Roadway Excavation, Compaction Method C, Finishing Method A	Improve existing turnouts, grade dips and ditch lines. Clean and recondition all culvert catch basins and outlets
	0+00 - 60+00	30322A	1.14	Mile	Road Reconditioning, Compaction Method A	
	4+60	20426	1	Each	Construct Grade Dip	
	12+25	20426	1	Each	Construct Grade Dip	
	14+40	20426	1	Each	Construct Grade Dip	
	19+80	20426	1	Each	Construct Grade Dip	
	20+40 - 21+50	20402			Repair fill slope failure	Shift roadway 4 ft. into cutslope
	21+75					Existing 24" CMP in live stream
	20+75 - 22+75	32232B	40	CY	Furnish and Place Base Course Aggregate, Grading D, Compaction B	Place aggregate, 4 inch compacted in place depth, traveled way, and turnouts.
	26+20	20426	1	Each	Construct Grade Dip	
	26+85	20426	1	Each	Construct Grade Dip	
	31+20	20426	1	Each	Construct Grade Dip	
	31+60					Non system road left
	33+00	20426	1	Each	Construct Grade Dip	
	34+90					Non system road left
	39+80	20426	1	Each	Construct Grade Dip	
	60+00				End of project	

U. S. Department of Agriculture
FOREST SERVICE
Boise National Forest Engineering
REGION 4

DESIGN BY: R.Smith CHECK: D.Woras
DRAWING BY: R.Smith CHECK: D.Woras
DRAWING NUMBER:

Description of Work
NFSR #695B

West Scriver Stewardship

ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
695D(R)	0+00				Begin reconstruction	14 Ft. road with turnouts. Starts at the Junction with NFSR #695 at Station 219+30
	0+00 - 7+90	20103	0.15	Mile	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f, Logs f, and Stumps f	See Typical Sections & Construction Notes
	0+00 - 7+90	20402	0.15	Mile	Roadway Excavation, Compaction Method C, Finishing Method A	Improve existing turnouts, grade dips and ditch lines. Clean and recondition all culvert catch basins and outlets
	0+00 - 7+90	30322A	0.15	Mile	Road Reconditioning, Compaction Method A	Maintain existing template
	0+00 - 5+00	32232B	100	CY	Furnish and Place Base Course Aggregate, Grading D, Compaction B	Place aggregate, 4 inch compacted in place depth, traveled way, and turnouts.
	1+00	65001	1	Each	Furnish and install road closure device, type Gate, size 16'	Final location will be approved by the Engineer
	1+90	20426	1	Each	Construct Grade Dip	
	4+00	20426	1	Each	Construct Grade Dip	
	6+00	20426	1	Each	Construct Grade Dip	
	7+90				End of project	Junction with NFSR #695D1(R), right

U. S. Department of Agriculture
FOREST SERVICE
Boise National Forest
Engineering
REGION 4

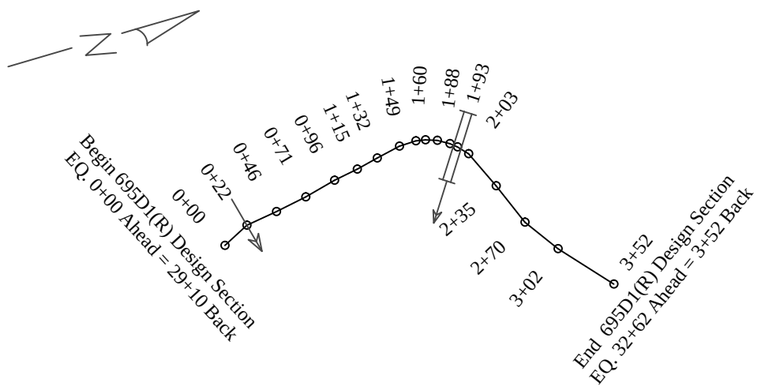
DESIGN BY: R.Smith CHECK: D.Woras
DRAWING BY: R.Smith CHECK: D.Woras
DRAWING NUMBER:

Description of Work
NFSR #695D

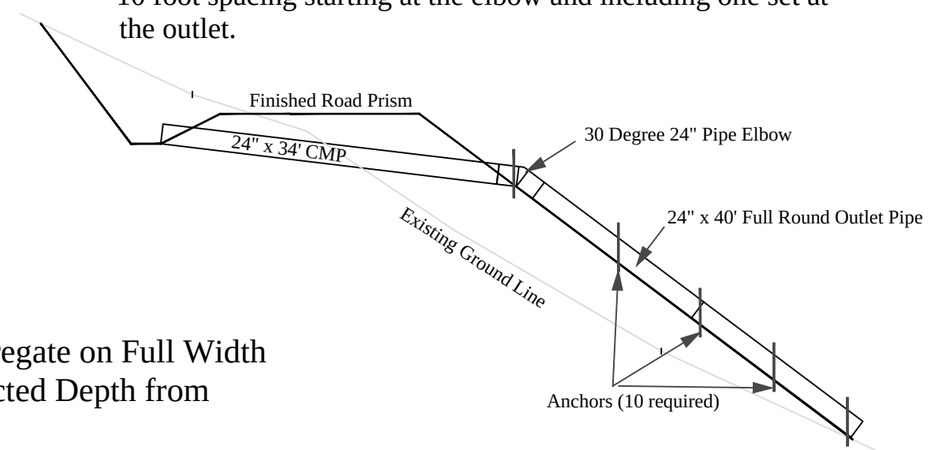
West Scriver Stewardship

ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
695D1(R)	0+00				Begin reconstruction	14 Ft. road with turnouts. Starts at the Junction with NFSR #695D(R) at Station 7+90
	0+00 - 29+10	20103	0.55	Mile	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f, Logs f, and Stumps f	See Typical Sections & Construction Notes
	0+00 - 29+10	20402	0.55	Mile	Roadway Excavation, Compaction Method C, Finishing Method A	Improve existing turnouts, grade dips and ditch lines. Clean and recondition all culvert catch basins and outlets
	0+00 - 29+10	30322A	0.55	Mile	Road Reconditioning, Compaction Method A	Maintain existing template
	4+00	20426	1	Each	Construct Grade Dip	
	10+60	20301A	1	Each	Removal of Culvert, Disposal Method A	Disposal by removal from National Forest Lands
		60265A	36	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	11+00 - 13+00	32232B	40	CY	Furnish and Place Base Course Aggregate, Grading D, Compaction B	Place aggregate, 4 inch compacted in place depth, traveled way, and turnouts.
	12+00	20301A	1	Each	Removal of Culvert, Disposal Method A	Disposal by removal from National Forest Lands
		60265A	36	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	13+80	20301A	1	Each	Removal of Culvert, Disposal Method A	Disposal by removal from National Forest Lands
		60265A	36	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	27+20	20426	1	Each	Construct Grade Dip	
	28+20				Shift roadway 4 ft. into cutslope	Fill slope failure
	29+10				Begin Plan and Profile for 695D1(R) Design Section	EQ. 0+00 ahead = 29+10 back

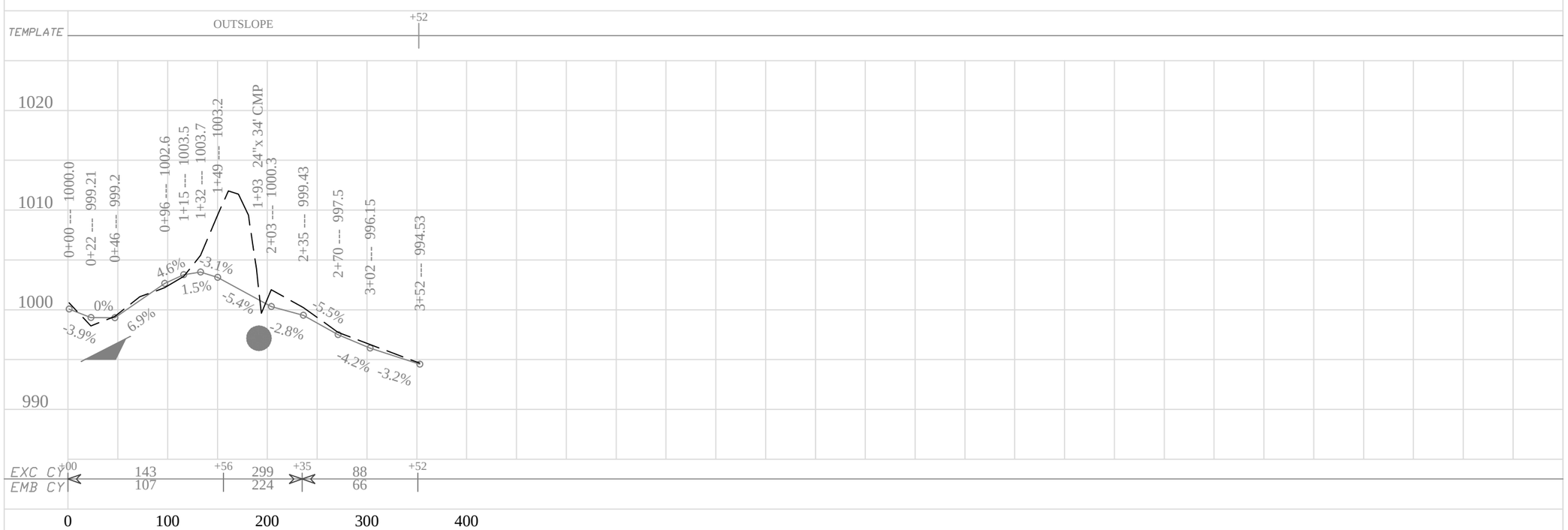
Construct Slash Blankets at the
Following Gradebreak Stations:
0+22



Station 1+93: Install 24"x 34' CMP with 40 LF of full round outlet pipe using 30 degree elbow. Install gaskets, O-Ring or Sleeve type, under all the culvert bands on the downpipe assembly(3 sets required). Install 10 T-posts for anchors on 10 foot spacing starting at the elbow and including one set at the outlet.



Furnish and Place 32232B Aggregate on Full Width
of Subgrade to a 4" Compacted Depth from
Stations:
0+00 to 3+52 (70 CY in place)



U. S. Department of Agriculture
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Boise National Forest
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REGION 4

DESIGN BY: D.Veater CHECK: D.Voras
DRAWING BY: D.Veater CHECK: D.Voras
DRAWING NUMBER:

Plan and Profile
NFSR #695D1 Design Section

West Scriver Stewardship

ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
695D1(R)	32+62				Continue 695D1(R) reconstruction	EQ. 32+62 ahead = 3+52 back
	32+62 - 60+00	20103	0.52	Mile	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f, Logs f, and Stumps f	See Typical Sections & Construction Notes
	32+62 - 60+00	20402	0.52	Mile	Roadway Excavation, Compaction Method C, Finishing Method A	Improve existing turnouts, grade dips and ditch lines. Clean and recondition all culvert catch basins and outlets
	32+62 - 60+00	30322A	0.52	Mile	Road Reconditioning, Compaction Method A	Maintain Existing template
	33+80	20402			Remove boulder	Move boulder to fill slope as directed by the ER
	60+00				End of project	

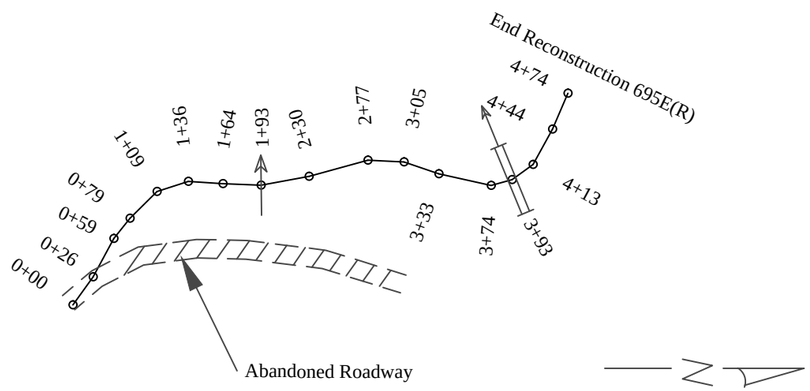
U. S. Department of Agriculture
FOREST SERVICE
Boise National Forest Engineering
REGION 4

DESIGN BY: R.Smith CHECK: D.Woras
DRAWING BY: R.Smith CHECK: D.Woras
DRAWING NUMBER:

Description of Work
NFSR #695D1 (cont.)

West Scriver Stewardship

Construct Slash Blankets at the
Following Gradebreak Stations:
1+93



Section begins at Sta. 37+60
of 695E

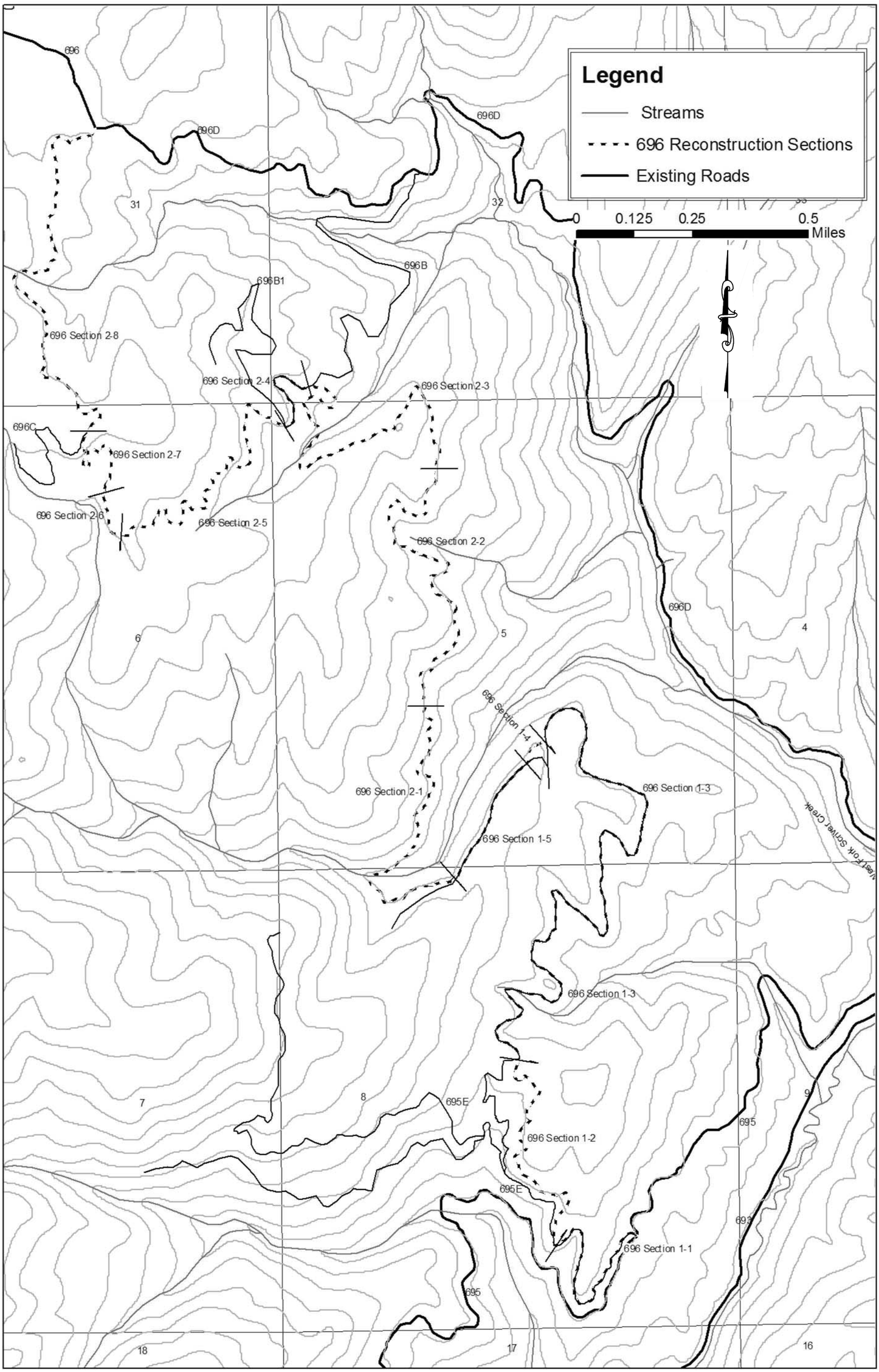
U. S. Department of Agriculture
FOREST SERVICE
Boise National Forest
Engineering
REGION 4

DESIGN	BY:	D.Veater
	CHECK:	D.Voras
DRAWING	BY:	D.Veater
	CHECK:	D.Voras
DRAWING NUMBER:		

Plan and Profile
NFSR# 695E

West Scriver Stewardship

SHEET
33 of 65



SHEET 34 of 65

Vicinity Map
NFSR #696 Reconstruction Sections

West Scriver Stewardship

DESIGN	BY:	R.Smith
	CHECK:	D.Woras
DRAWING	BY:	R.Smith
	CHECK:	D.Woras
DRAWING NUMBER:		

U. S. Department of Agriculture
FOREST SERVICE
Boise National Forest Engineering
REGION 4

ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
696(R) Section 1-1	0+00				Begin reconstruction	16 Ft. road with turnouts. Starts at the Junction with NFSR #695(R) at Station 58+50
	0+00 - 26+10	20103	0.49	Mile	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f, Logs f, and Stumps f	See Typical Sections & Construction Notes
	0+00 - 26+10	20402	0.49	Mile	Roadway Excavation - Compaction Method C, Finishing Method A	Improve existing turnouts, grade dips and ditch lines. Clean and recondition all culvert catch basins and outlets. **Bring existing road to 16 Ft. width with curve widening to accommodate loaded log trucks.**
	0+00 - 26+10	30322A	0.49	Mile	Road Reconditioning, Compaction Method A	
	0+00 - 17+30	32232B	400	C.Y.	Furnish and Place Base Course Aggregate, Grading D, Compaction Method B	Place aggregate, 4 inch compacted in place depth, road shoulder to shoulder including turnouts
	7+80	20426	1	Each	Construct Grade Dip	
	15+00	20426	1	Each	Construct Grade Dip	
	19+30	20426	1	Each	Construct Grade Dip	
	25+50	20426	1	Each	Construct Grade Dip	
	26+10				End 696(R) Section 1-1	Junction with 695E(R) left. Continue with Plan and Profile for 696(R) Section 1-2

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Boise National Forest
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REGION 4

DESIGN BY: R.Smith
CHECK: D.Woras
DRAWING BY: R.Smith
CHECK: D.Woras
DRAWING NUMBER:

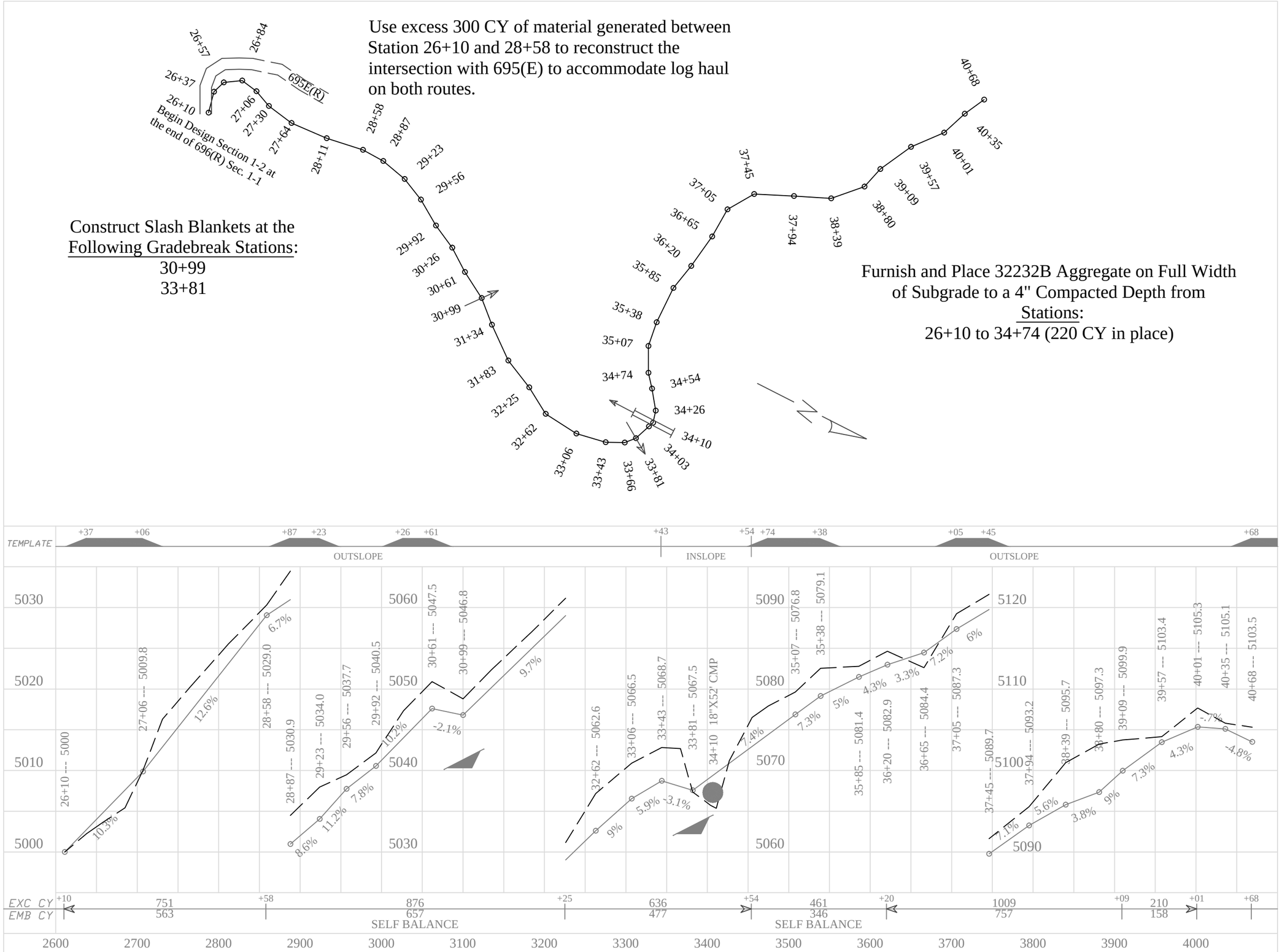
Description of Work
NFSR #696 Section 1-1

West Scriver Stewardship

Use excess 300 CY of material generated between Station 26+10 and 28+58 to reconstruct the intersection with 695(E) to accommodate log haul on both routes.

Construct Slash Blankets at the Following Gradebreak Stations:
30+99
33+81

Furnish and Place 32232B Aggregate on Full Width of Subgrade to a 4" Compacted Depth from Stations:
26+10 to 34+74 (220 CY in place)



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Boise National Forest
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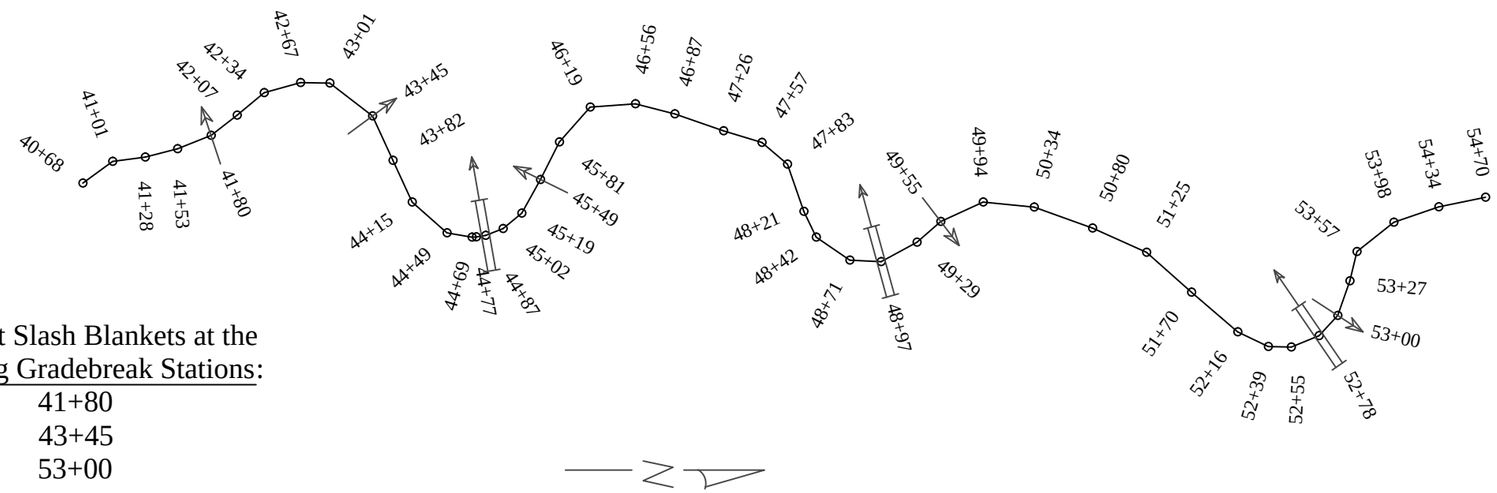
REGION 4

DESIGN	BY: D.Veater	
	CHECK: D.Voras	
DRAWING	BY: D.Veater	
	CHECK: D.Voras	
DRAWING NUMBER:		

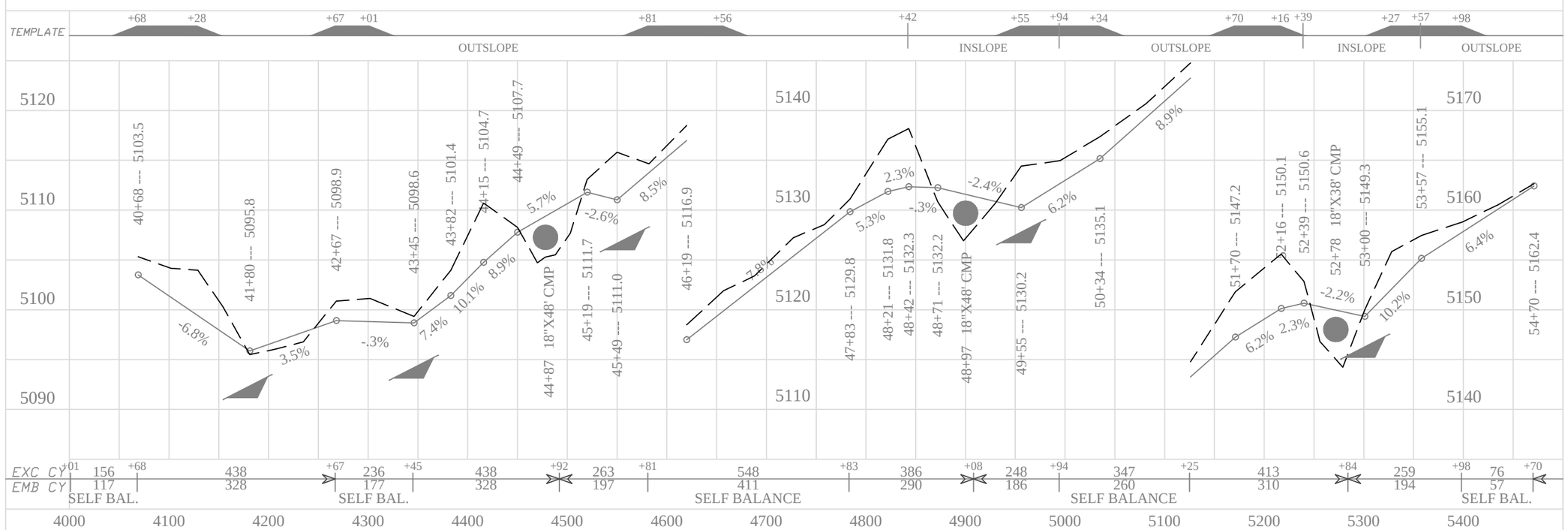
Plan and Profile
NFSR #696 Section 1-2

West Scriver Stewardship



Construct Slash Blankets at the
Following Gradebreak Stations:

41+80
43+45
53+00



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DESIGN	BY: D.Veater	
	CHECK: D.Voros	
DRAWING	BY: D.Veater	
	CHECK: D.Voros	
DRAWING NUMBER:		

Plan and Profile
NFSR #696 Section 1-2 (cont.)

West Scriver Stewardship

SHEET
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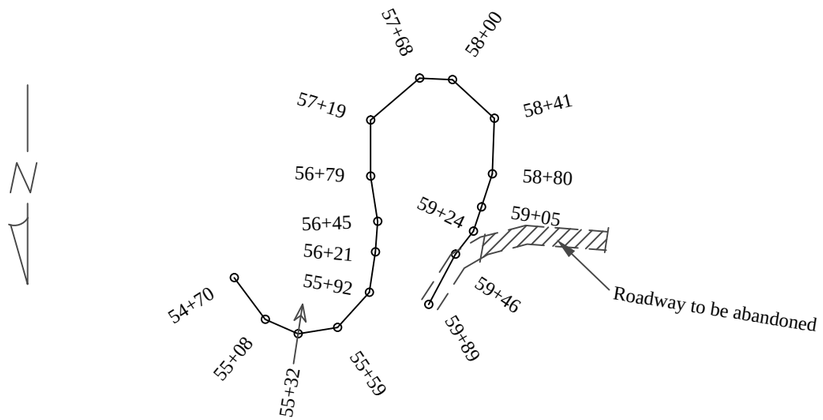

59+89 End Design Section 1-2. Continue with 696(R) Sec. 1-3

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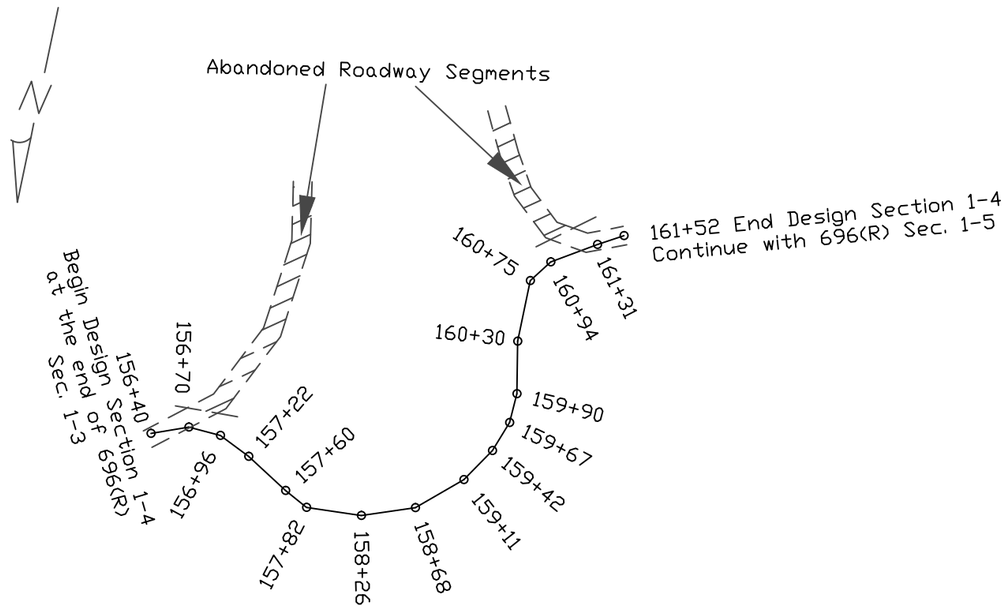
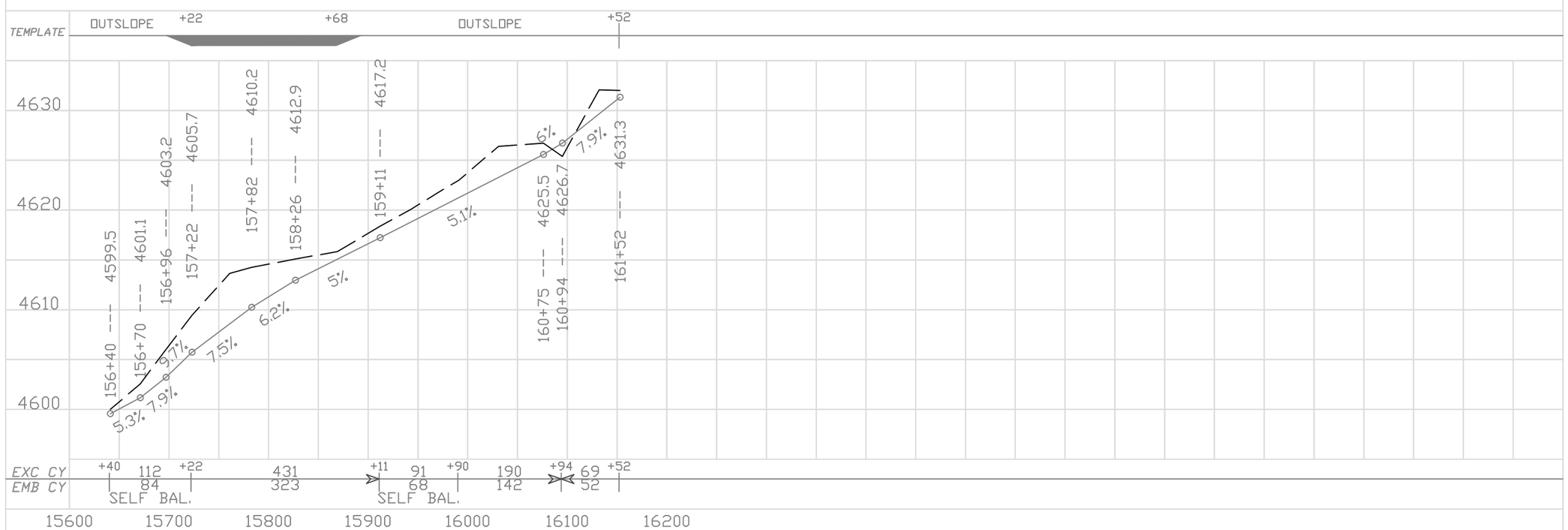
DRAWING	BY: D.Veater	
	CHECK: D.Voras	
DRAWING NUMBER:		

Plan and Profile
NFSR #696 Section 1-2 (cont.)

West Scriver Stewardship

ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
696(R) Section 1-3	59+89				Begin 696(R) Section 1-3 at end of Plan and Profile for 696® Section 1-2	
	59+89 - 156+40	20103	1.83	Mile	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f, Logs f, and Stumps f	See Typical Sections & Construction Notes
	59+89 - 156+40	20402	1.83	Mile	Roadway Excavation - Compaction Method C, Finishing Method A	Improve existing turnouts, grade dips and ditch lines. Clean and recondition all culvert catch basins and outlets. **Bring existing road to 16 Ft. width with curve widening to accommodate loaded log trucks.**
	59+89 - 156+40	30322A	1.83	Mile	Road Reconditioning, Compaction Method A	
	66+80	20426	1	Each	Construct Grade Dip	
	71+40	20426	1	Each	Construct Grade Dip	
	73+55	20426	1	Each	Construct Grade Dip	
	75+00 - 77+00	32232B	40	C.Y.	Furnish and Place Base Course Aggregate, Grading D, Compaction Method B	Place aggregate, 4 inch compacted in place depth, road shoulder to shoulder
	76+00					Existing cmp, live water
	77+40	20426	1	Each	Construct Grade Dip	
	80+40	60265A	60	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	98+65	20426	1	Each	Construct Grade Dip	
	139+50	20426	1	Each	Construct Grade Dip	
	146+75	20426	1	Each	Construct Grade Dip	
	156+40				End 696(R) Section 1-3	Continue with Plan and Profile for 696(R) Section 1-4





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REGION 4

DESIGN	BY:	D.Veater
	CHECK:	D.Voras
DRAWING	BY:	D.Veater
	CHECK:	D.Voras
DRAWING NUMBER:		

Plan and Profile
NFSR #696 Section 1-4

West Scriver Stewardship

SHEET
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ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
696(R) Section 1-5	161+52				Begin 696(R) Section 1-5 at end of Plan and Profile for 696(R) Section 1-4	
	161+52- 184+50	20103	0.44	Mile	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f, Logs f, and Stumps f	See Typical Sections & Construction Notes
	161+52- 184+50	20402	0.44	Mile	Roadway Excavation - Compaction Method C, Finishing Method A	Improve existing turnouts, grade dips and ditch lines. Clean and recondition all culvert catch basins and outlets. **Bring existing road to 16 Ft. width with curve widening to accommodate loaded log trucks.**
	161+52- 184+50	30322A	0.44	Mile	Road Reconditioning, Compaction Method A	
	169+40	60265A	50	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	177+00 - 184+50	32232B	150	C.Y.	Furnish and Place Base Course Aggregate, Grading D, Compaction Method B	Place aggregate, 4 inch compacted in place depth, road shoulder to shoulder including turnouts
	178+92	60265A	48	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	181+50	60265A	62	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	184+50				End of project	Continue with Plan and Profile for 696(R) Section 2-1

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Boise National Forest
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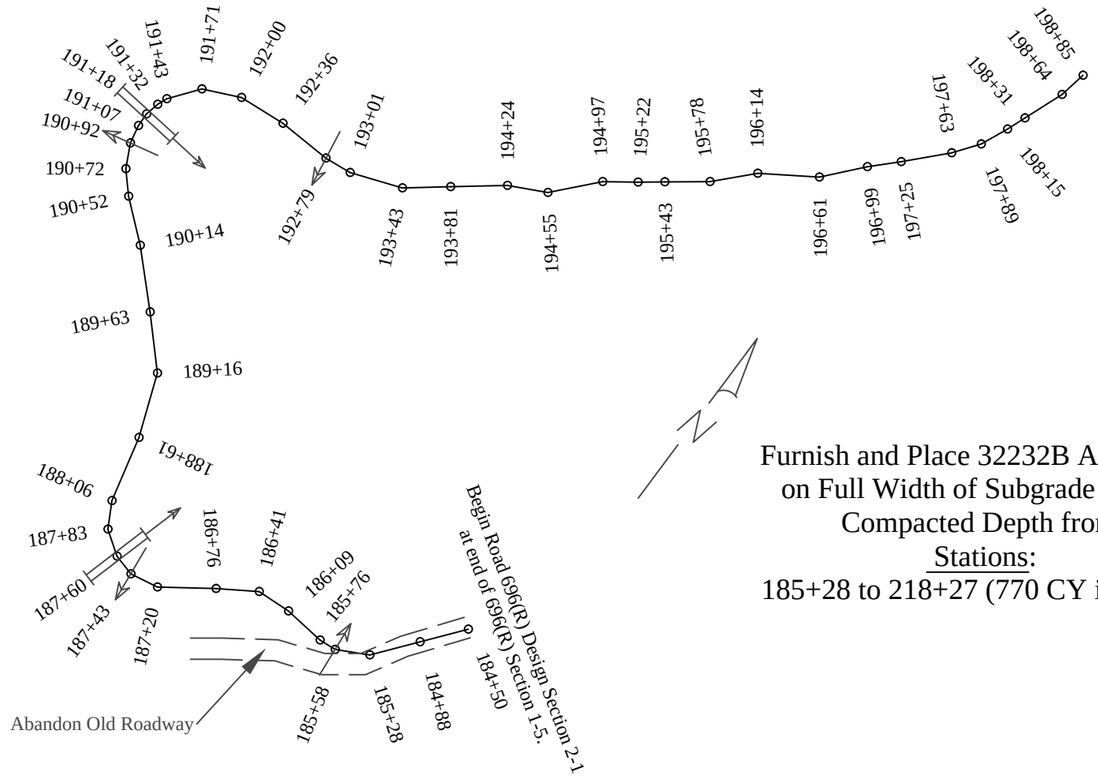
REGION 4

DESIGN BY: R.Smith CHECK: D.Woras
DRAWING BY: R.Smith CHECK: D.Woras
DRAWING NUMBER:

Description of Work
NFSR #696 Section 1-5

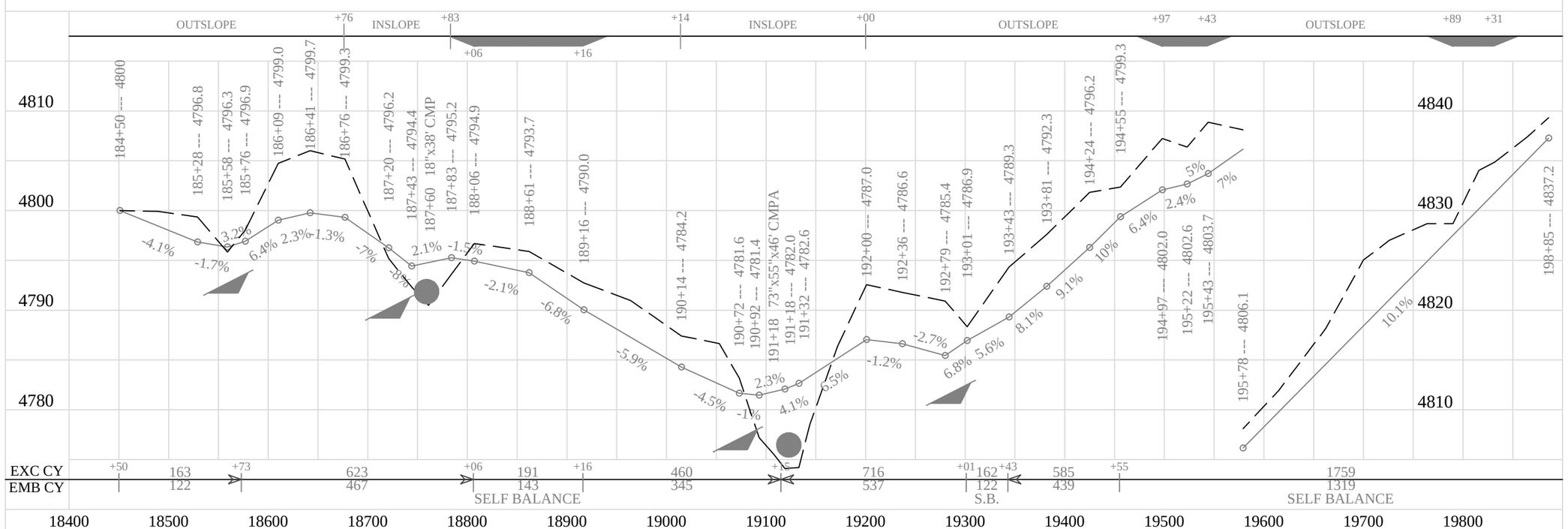
West Scriver Stewardship



Construct Slash Blankets at the
Following Gradebreak Stations:
185+88
187+43
190+92

Furnish and Place 32232B Aggregate
on Full Width of Subgrade to a 4"
Compacted Depth from
Stations:
185+28 to 218+27 (770 CY in place)

The Clearing Limit on the Right Side is Reduced
to 30 Feet Beyond the Road Shoulder
At the Following Stations:
194+55
194+97
196+61
196+99
197+25
197+63



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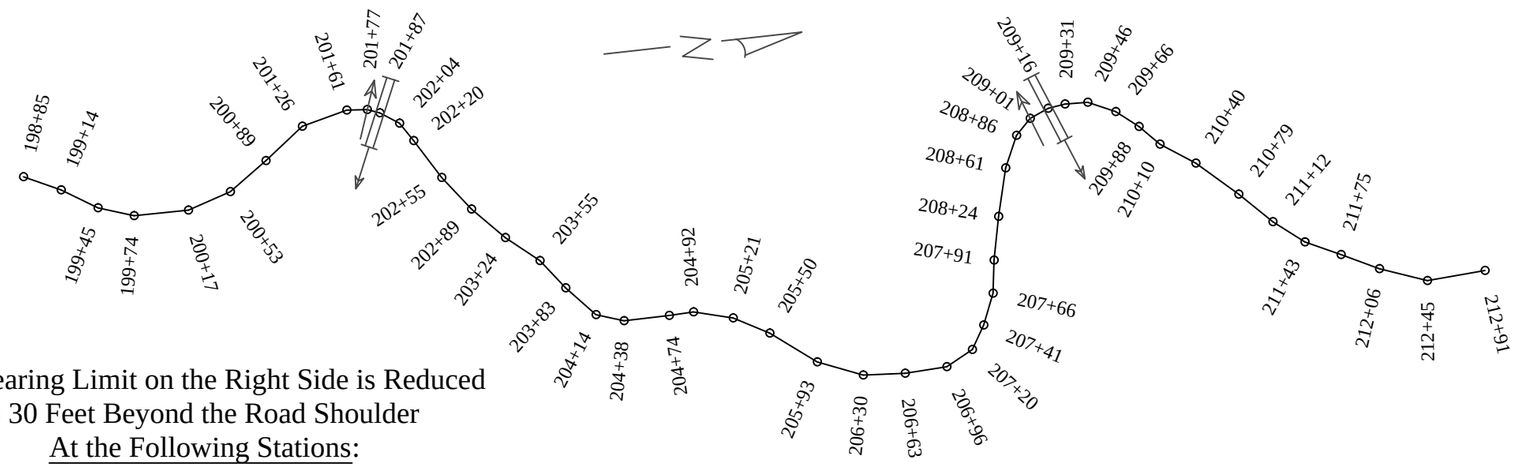
Boise National Forest
Engineering
REGION 4

DESIGN	BY: R.Smith	
	CHECK: D.Voros	
DRAWING	BY: R.Smith	
	CHECK: D.Voros	

DRAWING NUMBER:

Plan and Profile
NFSR #696 Section 2-1

West Scriver Stewardship



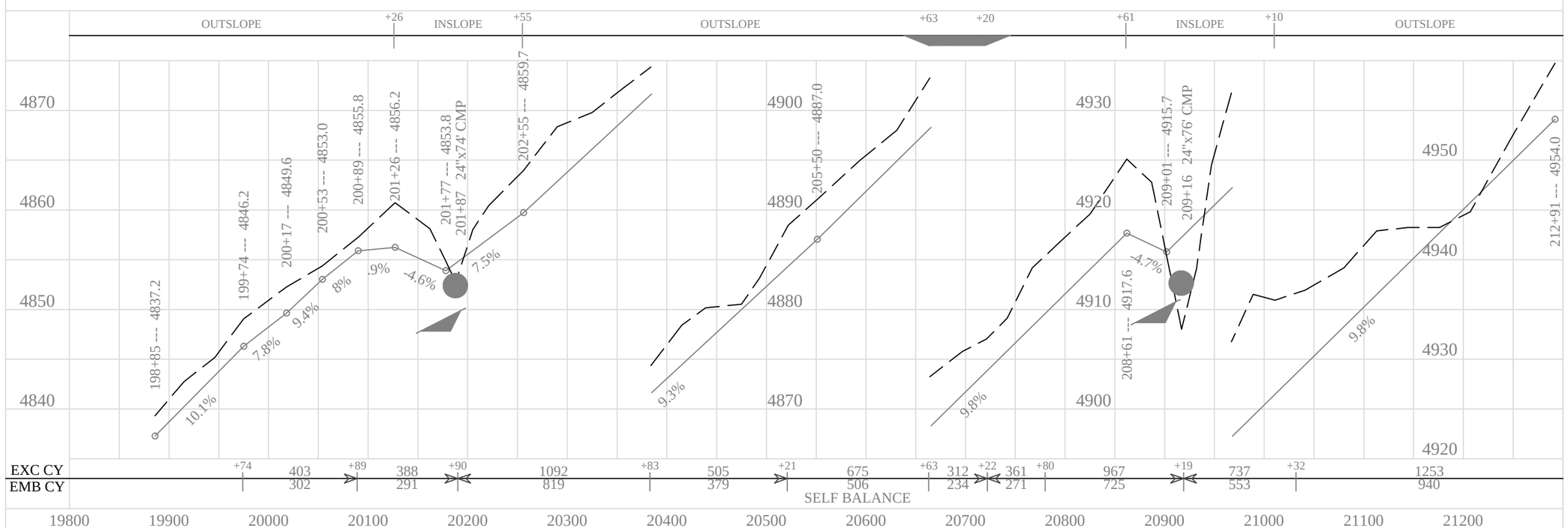
Construct Slash Blankets at the Following Gradebreak Stations:

201+77
209+01

The Clearing Limit on the Right Side is Reduced to 30 Feet Beyond the Road Shoulder At the Following Stations:

199+45	205+21
199+74	206+30
200+17	206+63
202+55	207+20
202+89	207+41
203+24	207+91
203+55	208+24
203+83	210+10
204+74	210+40
204+92	211+75

Furnish and Place 32232B Aggregate on Full Width of Subgrade to a 4" Compacted Depth from Stations:
185+28 to 218+27



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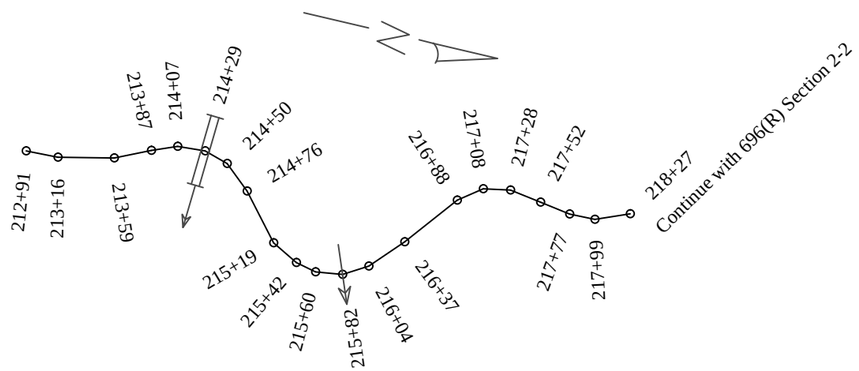
Plan and Profile
NFSR #696 Section 2-1 (cont)

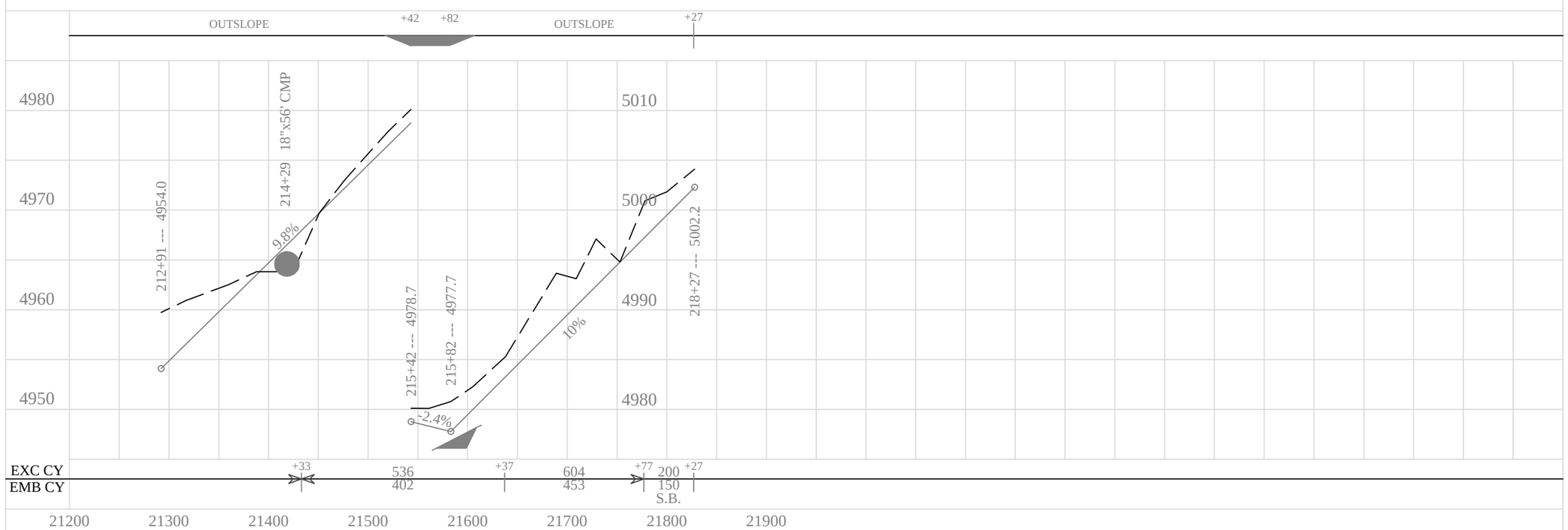
West Scriver Stewardship



Construct Slash Blankets at the
Following Gradebreak Stations:
215+82

The Clearing Limit on the Right Side is Reduced
to 30 Feet Beyond the Road Shoulder
At the Following Stations:
217+77
218+27

Furnish and Place 32232B
Aggregate on Full Width of
Subgrade to a 4" Compacted
Depth from
Stations:
185+28 to 218+27



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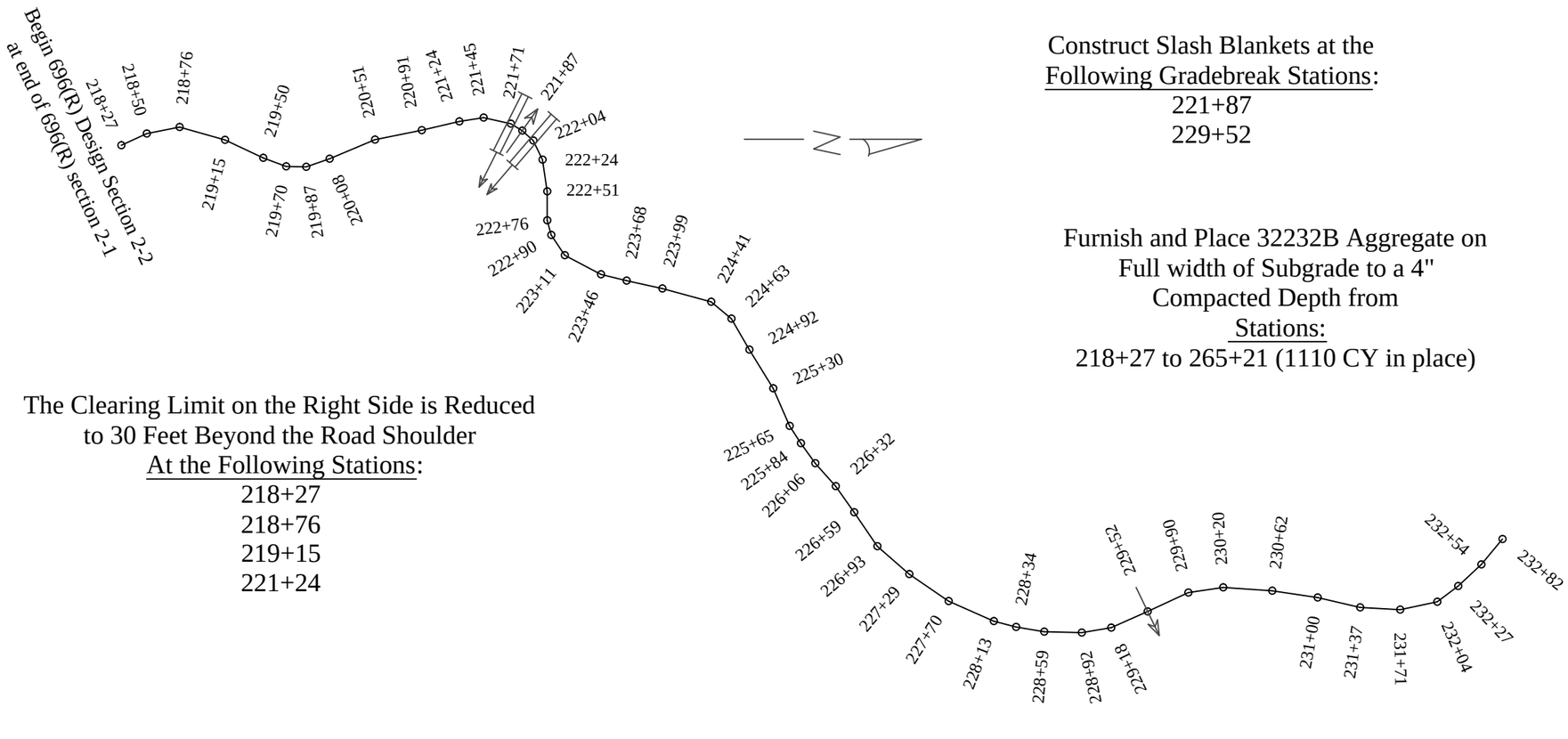
Plan and Profile
NFSR #696 Section 2-1 (cont)

West Scriver Stewardship

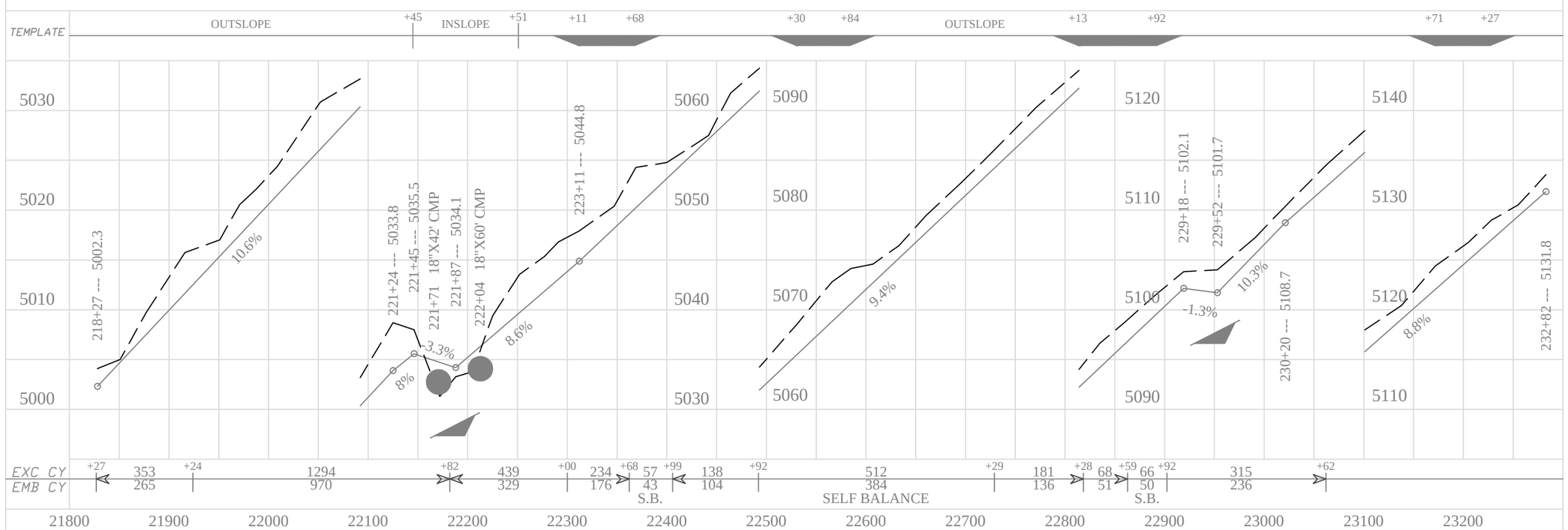
SHEET
44 of 65



Construct Slash Blankets at the
Following Gradebreak Stations:
221+87
229+52

Furnish and Place 32232B Aggregate on
Full width of Subgrade to a 4"
Compacted Depth from
Stations:
218+27 to 265+21 (1110 CY in place)

The Clearing Limit on the Right Side is Reduced
to 30 Feet Beyond the Road Shoulder
At the Following Stations:
218+27
218+76
219+15
221+24



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Boise National Forest
Engineering
REGION 4

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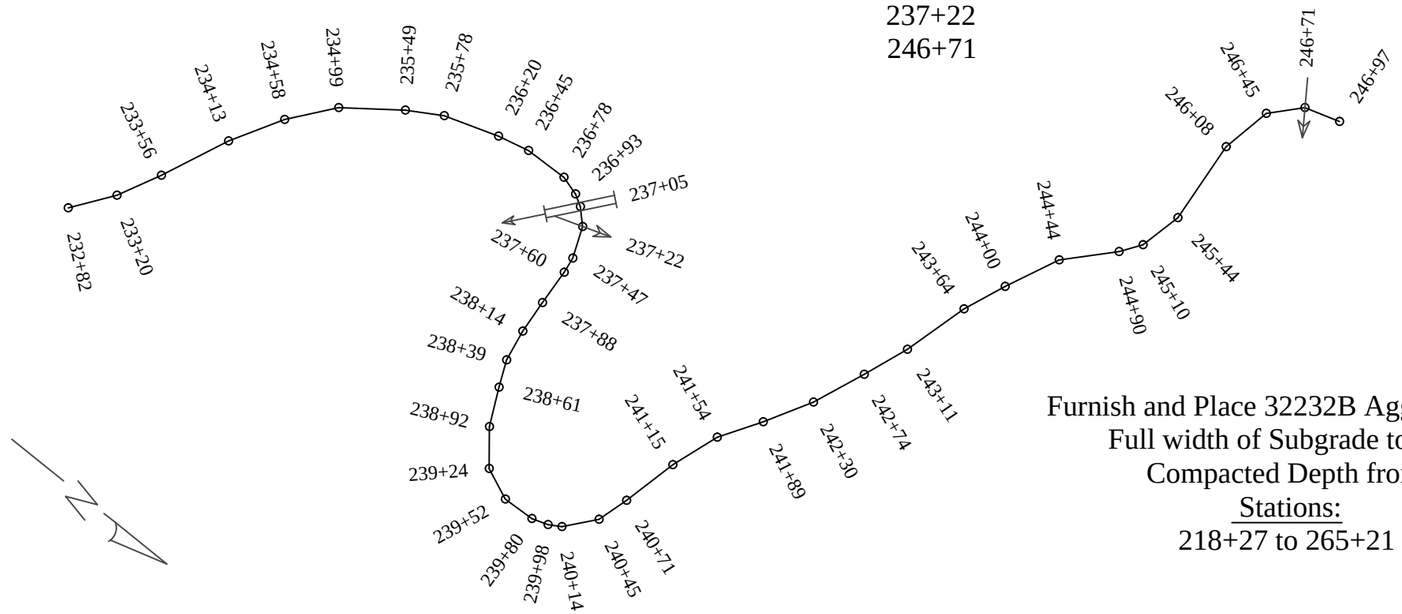
Plan and Profile
NFSR #696 Section 2-2

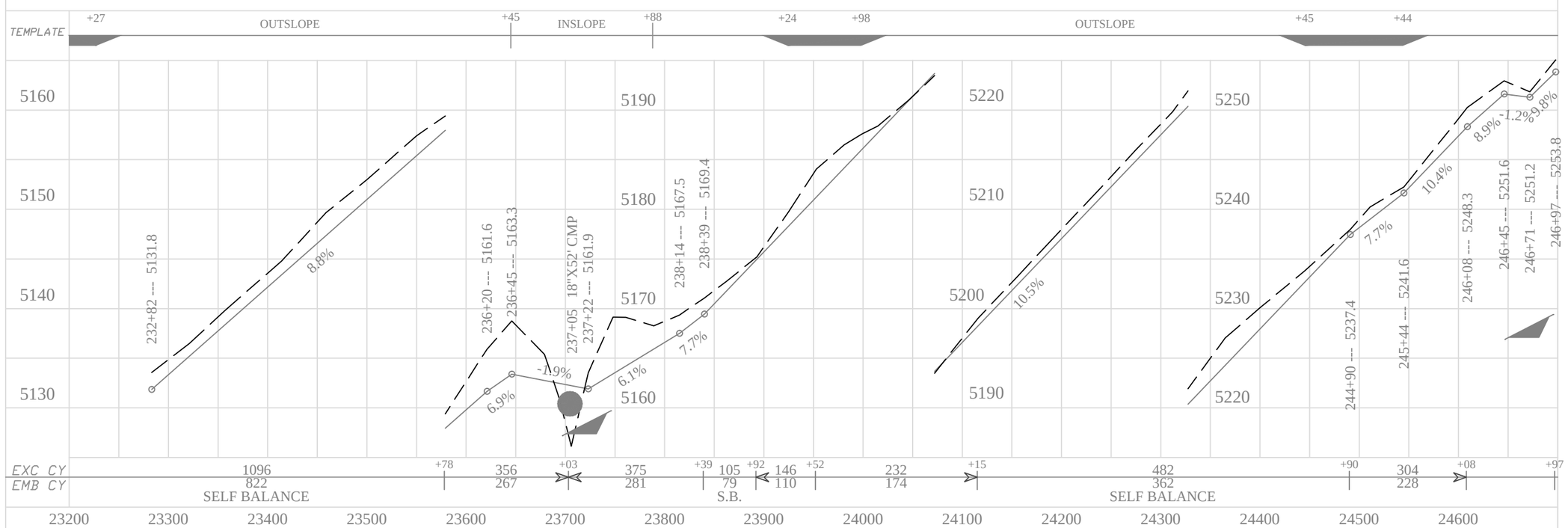
West Scriver Stewardship

SHEET
45 of 65

Construct Slash Blankets at the
Following Gradebreak Stations:
237+22
246+71



Furnish and Place 32232B Aggregate on
Full width of Subgrade to a 4"
Compacted Depth from
Stations:
218+27 to 265+21



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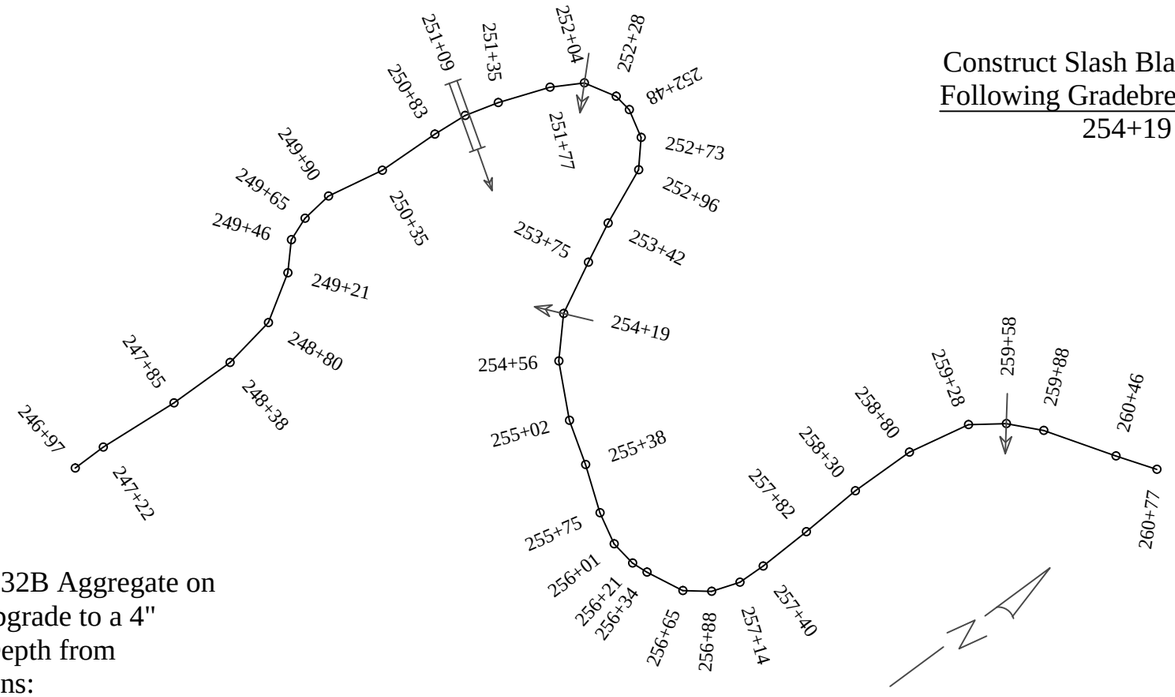
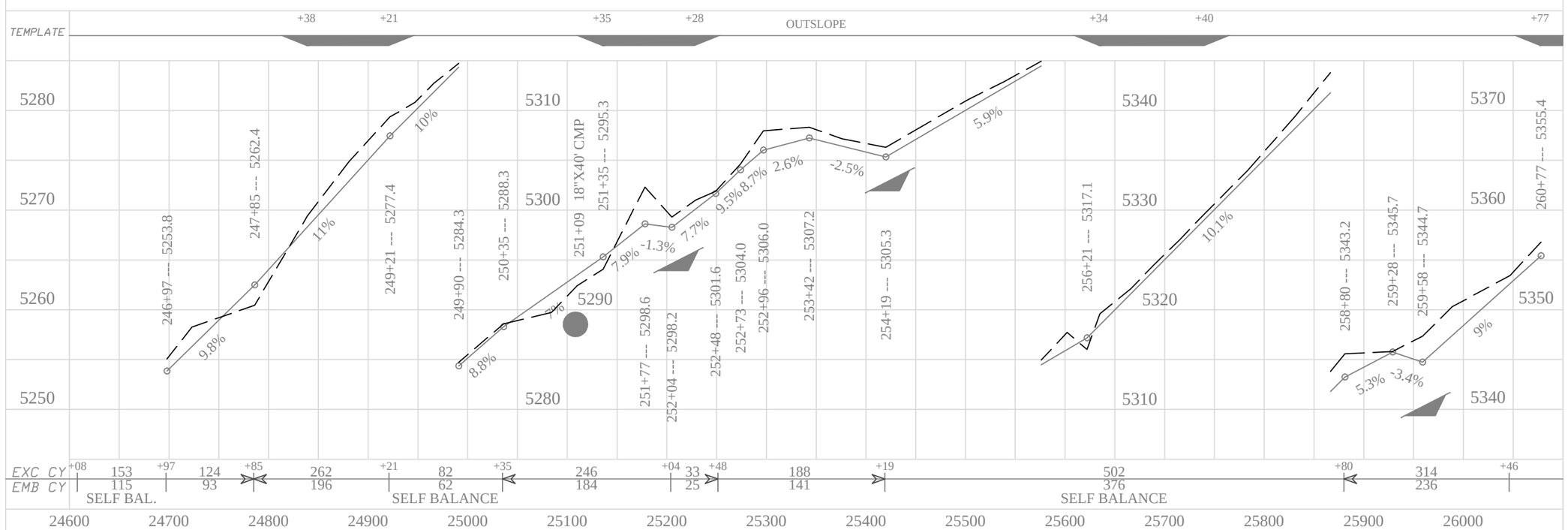
Plan and Profile
NFSR #696 Section 2-2 (cont.)

West Scriver Stewardship



Construct Slash Blankets at the
Following Gradebreak Stations:
254+19

Furnish and Place 32232B Aggregate on
Full width of Subgrade to a 4"
Compacted Depth from
Stations:
218+27 to 265+21



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	CHECK: D.Voros	
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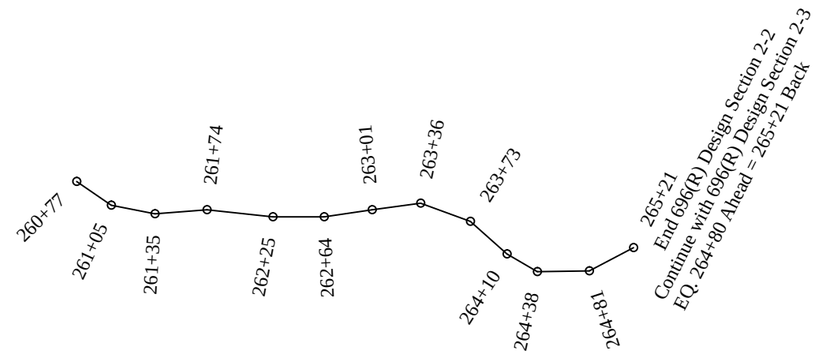
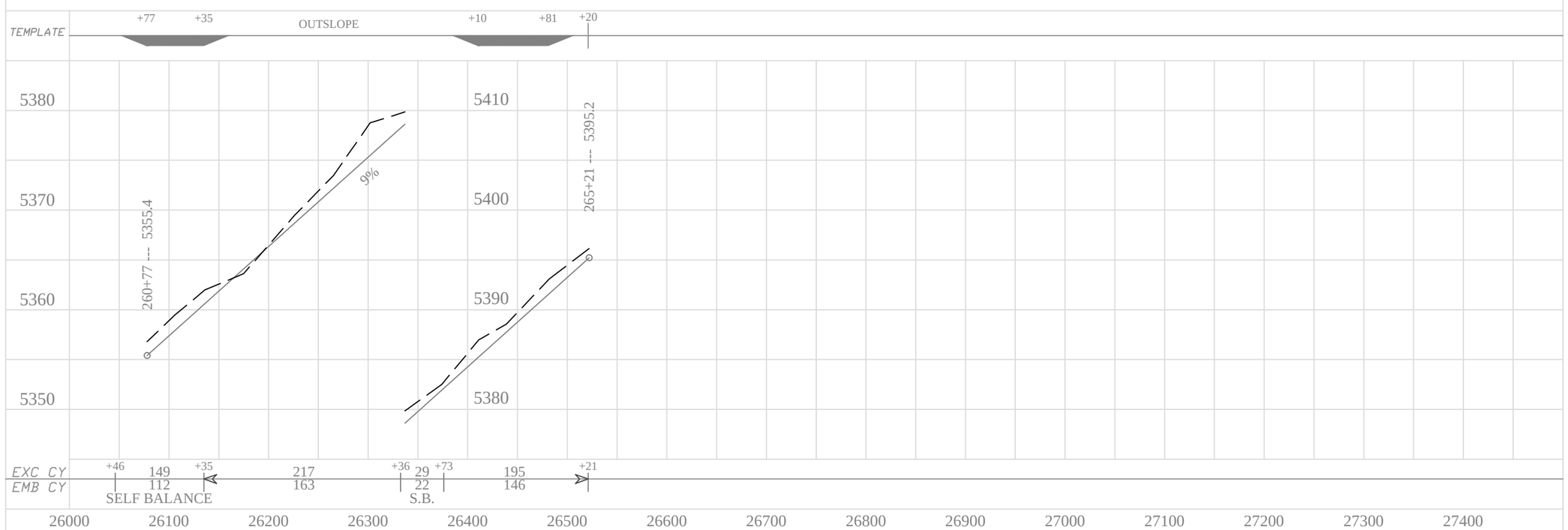
Plan and Profile
NFSR #696 Section 2-2 (cont.)

West Scriver Stewardship

SHEET
47 of 65



Furnish and Place 32232B Aggregate on
Full width of Subgrade to a 4"
Compacted Depth from
Stations:
218+27 to 265+21



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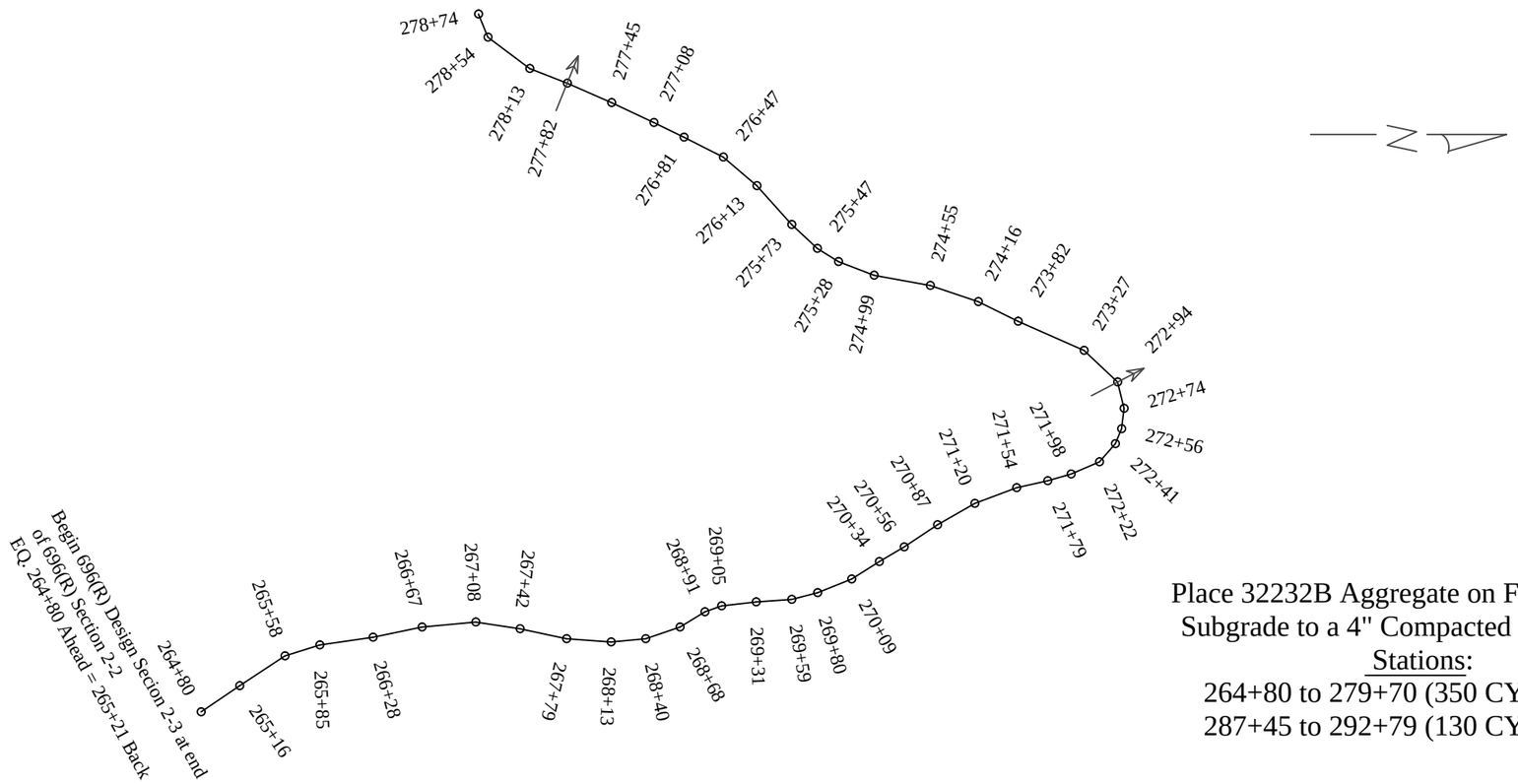
Plan and Profile
NFSR #696 Section 2-2 (cont.)

West Scriver Stewardship



Place 32232B Aggregate on Full Width of Subgrade to a 4" Compacted Depth from Stations:
264+80 to 279+70 (350 CY in place)
287+45 to 292+79 (130 CY in place)

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DESIGN	BY: D.Veater	CHECK: D.Voras
DRAWING	BY: D.Veater	CHECK: D.Voras

DRAWING NUMBER:

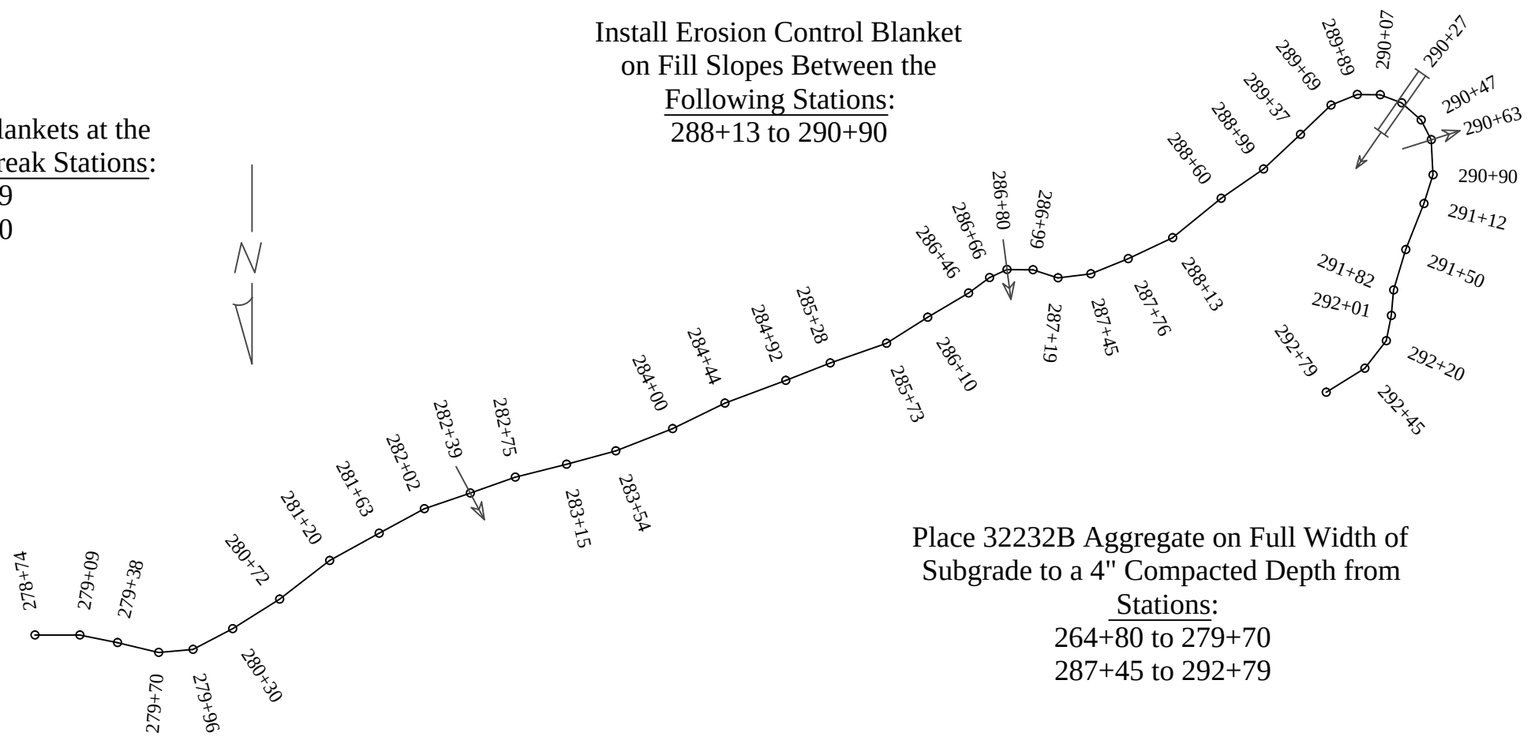
Plan and Profile
NFSR #696 Section 2-3

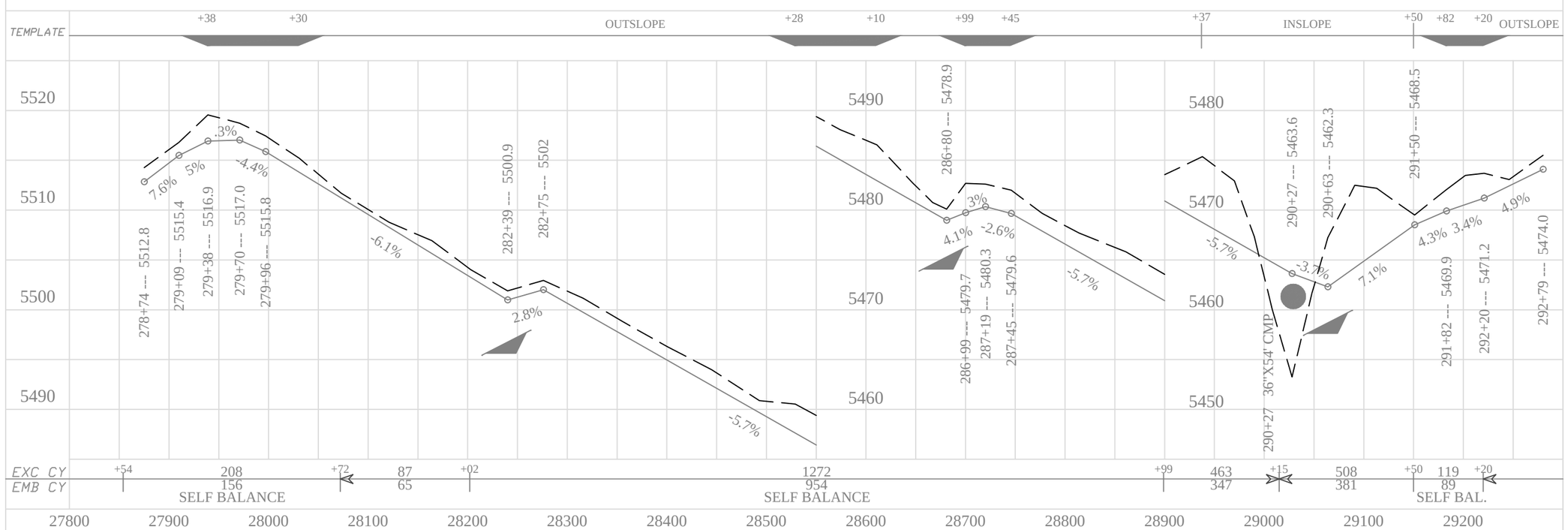
West Scriver Stewardship

Construct Slash Blankets at the
Following Gradebreak Stations:
282+39
286+80

Install Erosion Control Blanket
on Fill Slopes Between the
Following Stations:
288+13 to 290+90

Place 32232B Aggregate on Full Width of
Subgrade to a 4" Compacted Depth from
Stations:
264+80 to 279+70
287+45 to 292+79





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DRAWING	BY: D.Veater	
	CHECK: D.Voras	
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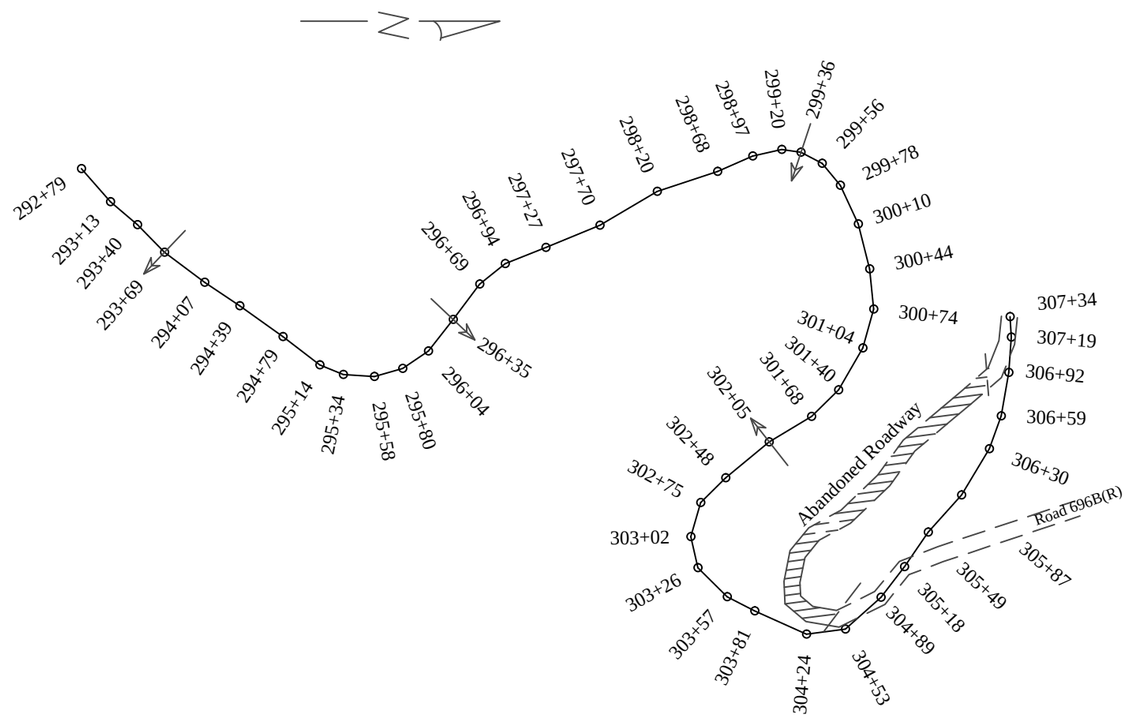
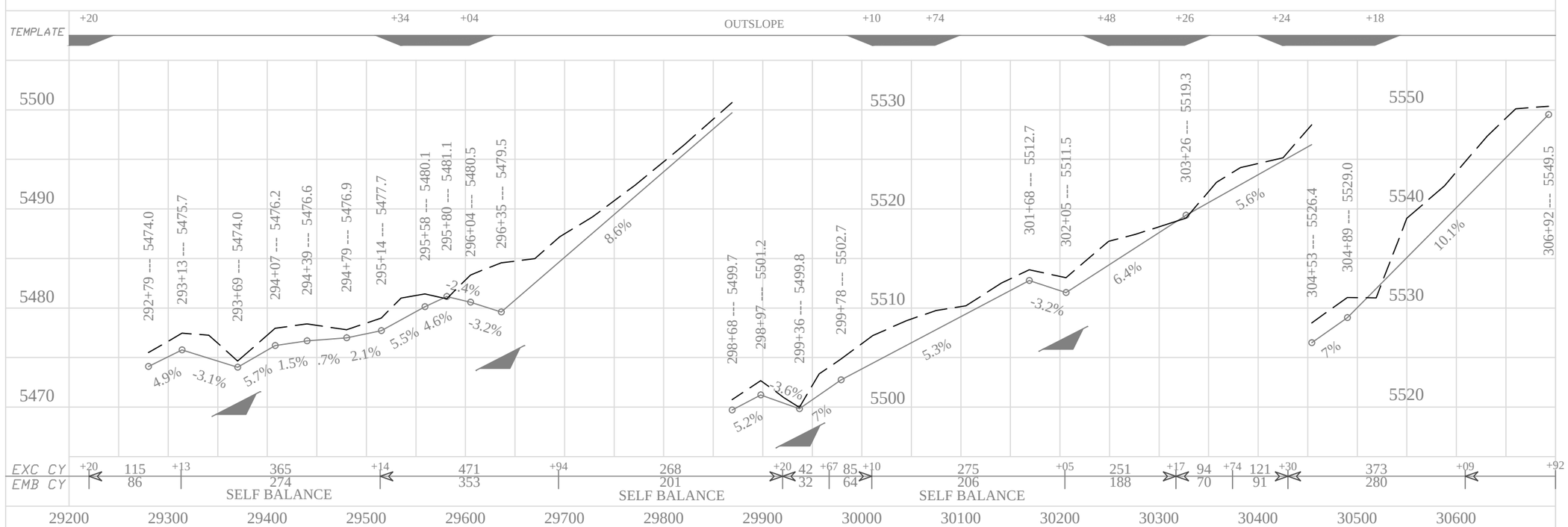
Plan and Profile
NFSR #696 Section 2-3 (cont.)

West Scriver Stewardship

Construct Slash Blankets at the
Following Gradebreak Stations:
293+69
302+05



Note:
Use excess 199 CY of excavation generated between 306+09 and 306+92 to reconstruct the intersection with Road 696B(R). The segment of Road 696B between 304+53 and 306+92 will be abandoned.



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Boise National Forest
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	CHECK: D.Voras	
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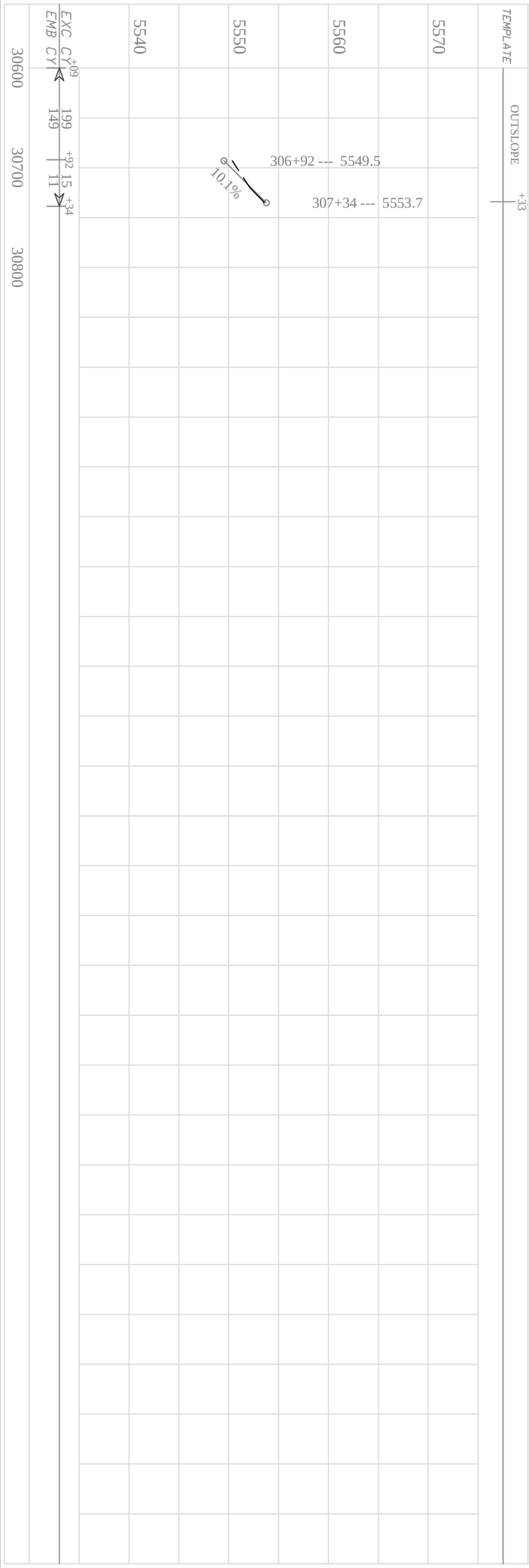
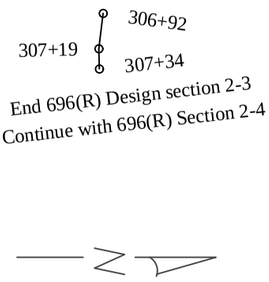
Plan and Profile
NFSR #696 Section 2-3 (cont.)

West Scriver Stewardship





SHEET 52 of 65	Plan and Profile NFSR #696 Section 2–3 (cont.)	DESIGN BY: D.Veater CHECK: D.Woras	U. S. Department of Agriculture FOREST SERVICE Boise National Forest Engineering REGION 4
	West Scriver Stewardship	DRAWING BY: D.Veater CHECK: D.Woras	
		DRAWING NUMBER:	

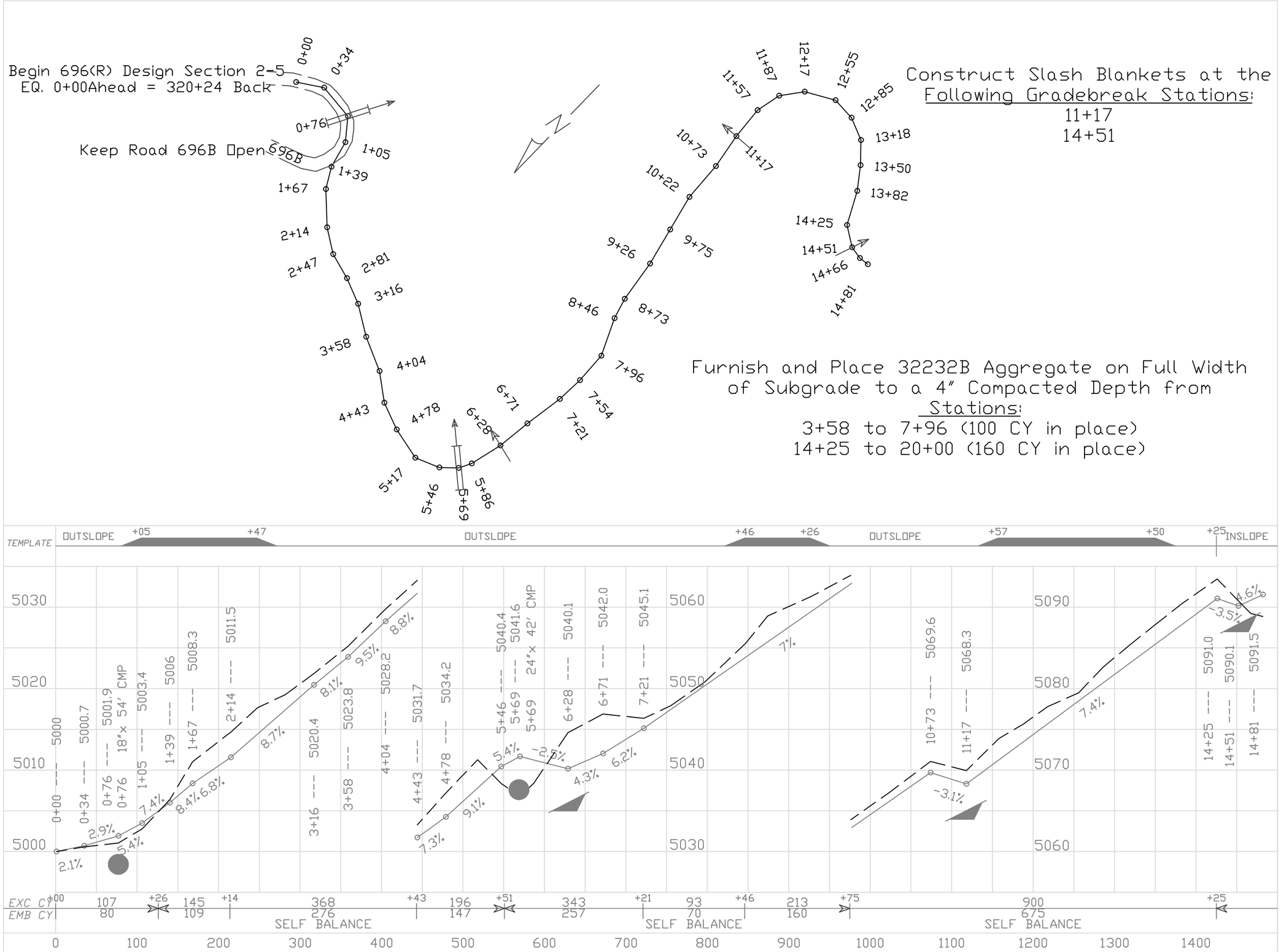
ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
696(R) Section 2-4	307+34				Begin 696(R) Section 2-4 at end of Plan and Profile for 696(R) Section 2-3	16 Ft. road with turnouts
	307+34 - 320+24	20103	0.24	Mile	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f, Logs f, and Stumps f	See Typical Sections & Construction Notes
	307+34 - 320+24	20402	0.24	Mile	Roadway Excavation, Compaction Method C, Finishing Method A	Improve existing turnouts, curves, existing grade dips, and ditch lines. Clean and recondition all culvert catch basins and outlets
	307+34 - 320+24	30322A	0.24	Mile	Road Reconditioning, Compaction Method A	Maintain existing template, inslope with ditch
	309+09					Turnout
	312+54	60265A	42	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	312+99	60265B	46	L.F.	24" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	314+84					Turnout
	317+14					Turnout
	318+94					Turnout
	320+24				End 696(R) Section 2-4	Continue with Plan and Profile for 696(R) Section 2-5. EQ 0+00 Ahead = 320+24 Back

U. S. Department of Agriculture
FOREST SERVICE
Boise National Forest
Engineering
REGION 4

DESIGN BY: R.Smith CHECK: D.Woras
DRAWING BY: R.Smith CHECK: D.Woras
DRAWING NUMBER:

Description of Work
NFSR #696 Section 2-4

West Scriver Stewardship



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FOREST SERVICE
Boise National Forest
Engineering
REGION 4

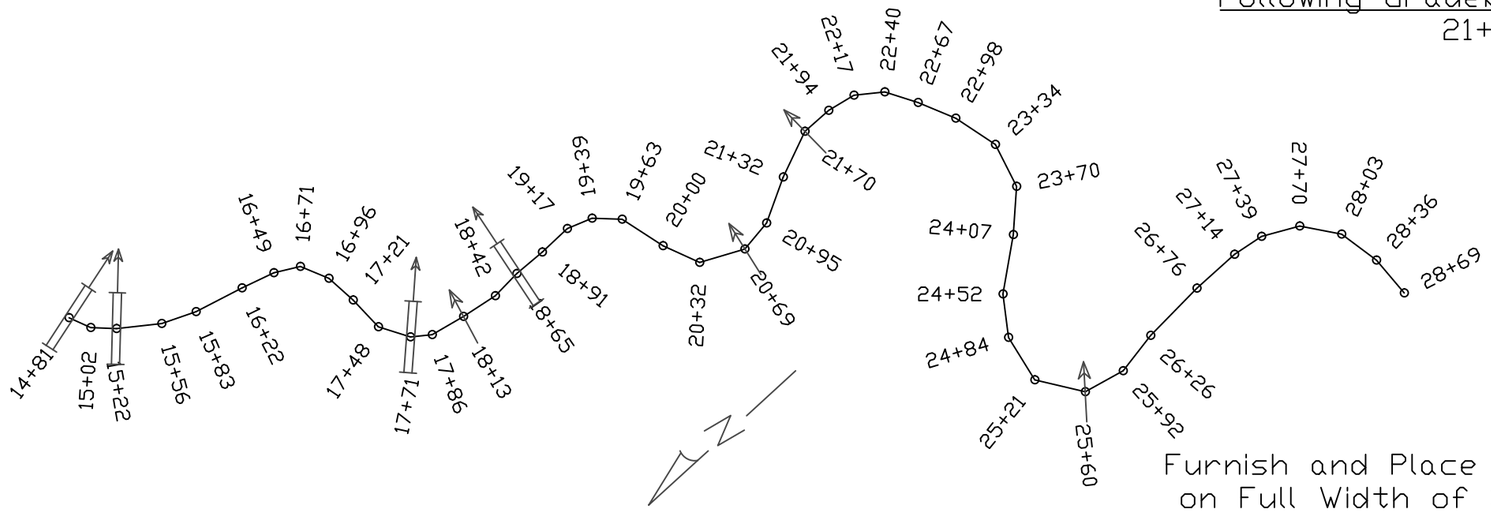
DESIGN BY: R.Smith
CHECK: D.Voras
DRAWING BY: R.Smith
CHECK: D.Voras
DRAWING NUMBER:

Plan and Profile
NFSR #696 Section 2-5

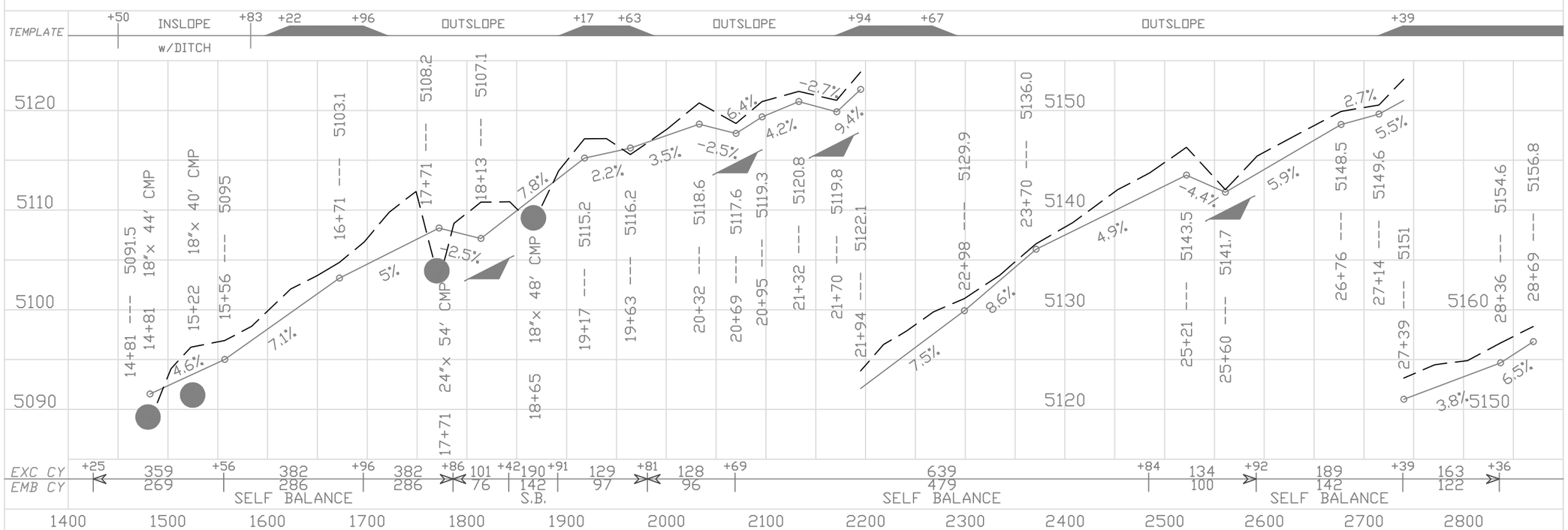
West Scriver Stewardship

SHEET
54 of 65

Construct Slash Blankets at the
Following Gradebreak Stations:
21+70



Furnish and Place 32232B Aggregate
on Full Width of Subgrade to a 4"
Compacted Depth from
Stations:
3+58 to 7+96
14+25 to 20+00



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FOREST SERVICE
Boise National Forest
Engineering
REGION 4

DESIGN	BY: R.Smith	
	CHECK: D.Voros	
DRAWING	BY: R.Smith	
	CHECK: D.Voros	
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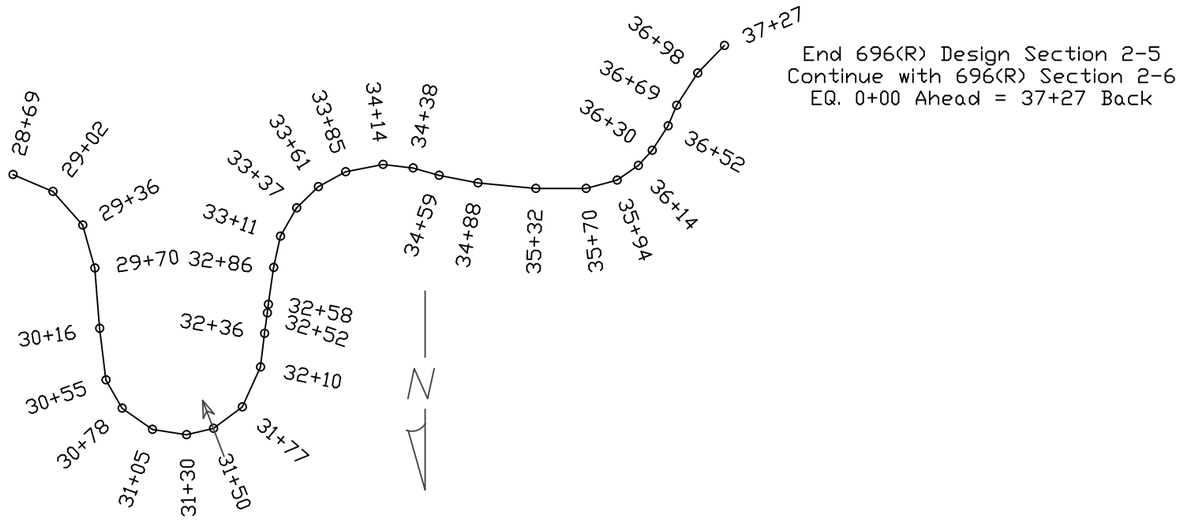
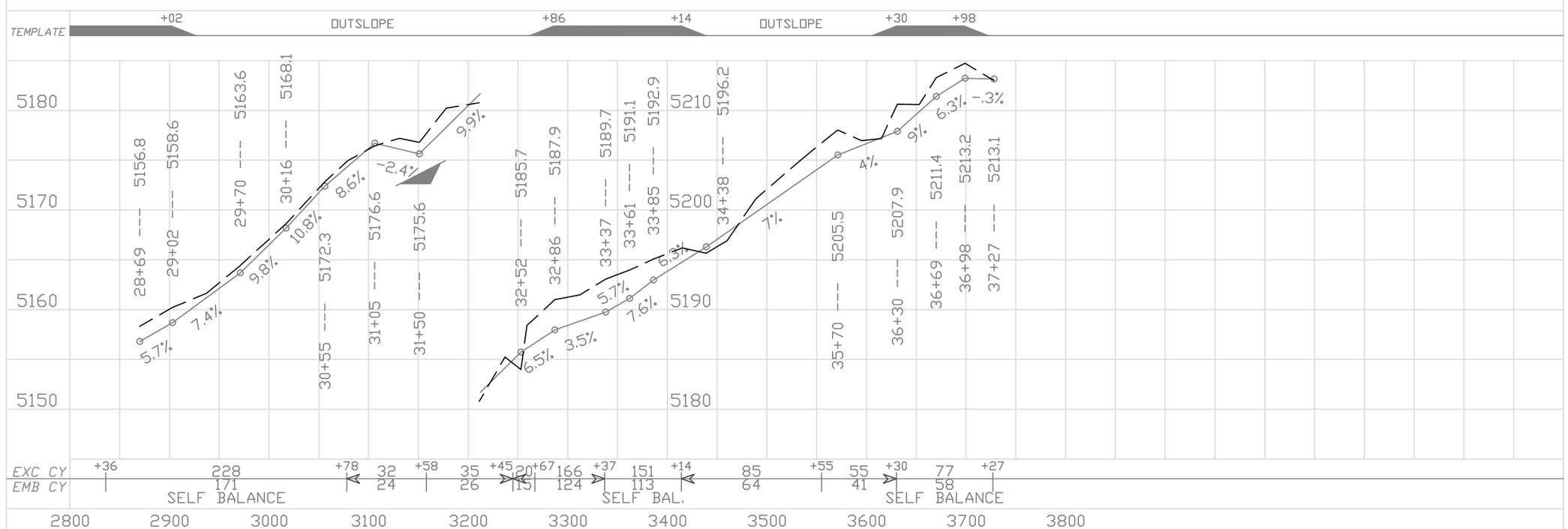
Plan and Profile
NFSR #696 Section 2-5 (cont.)

West Scriver Stewardship





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FOREST SERVICE
Boise National Forest
Engineering
REGION 4

DESIGN	BY: R.Smith	
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DRAWING	BY: R.Smith	
	CHECK: D.Voras	
DRAWING NUMBER:		

Plan and Profile
NFSR #696 Section 2-5 (cont.)

West Scriver Stewardship

SHEET
56 of 65

ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
696(R) Section 2-6	0+00				Begin 696(R) Section 2-6 at end of Plan and Profile for 696(R) Section 2-5	14 Ft. road with turnouts
	0+00 - 6+30	20103	0.12	Mile	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f, Logs f, and Stumps f	See Typical Sections & Construction Notes
	0+00 - 6+30	20402	0.12	Mile	Roadway Excavation, Compaction Method C, Finishing Method A	Improve existing turnouts, grade dips and ditch lines. Clean and recondition all culvert catch basins and outlets
	0+00 - 6+30	30322A	0.12	Mile	Road Reconditioning, Compaction Method A	
	1+90	20426	1	Each	Construct Grade Dip	
	4+00	20426	1	Each	Construct Grade Dip	
	6+30				End 696(R) Section 2-6	Continue with Plan and Profile for 696(R) Section 2-7. EQ. 0+00 Ahead = 6+30 Back

U. S. Department of Agriculture
FOREST SERVICE
Boise National Forest Engineering
REGION 4

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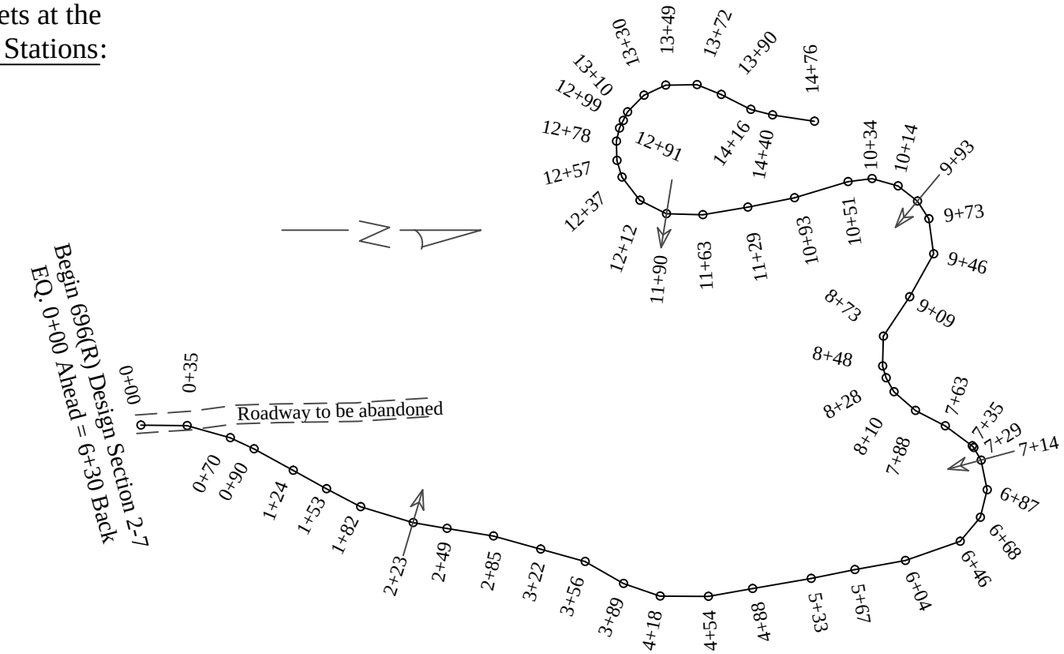
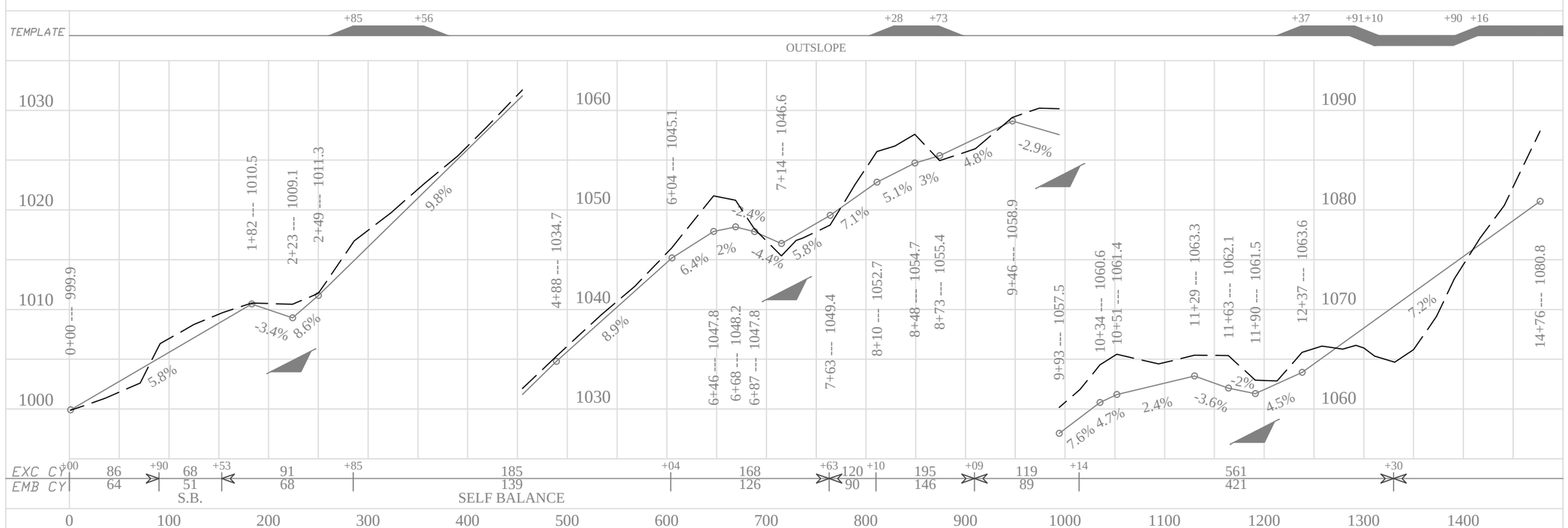
DRAWING BY: R.Smith CHECK: D.Woras
DRAWING NUMBER:

Description of Work
NFSR #696 Section 2-6

West Scriver Stewardship

Construct Slash Blankets at the
Following Gradebreak Stations:
7+14
11+90



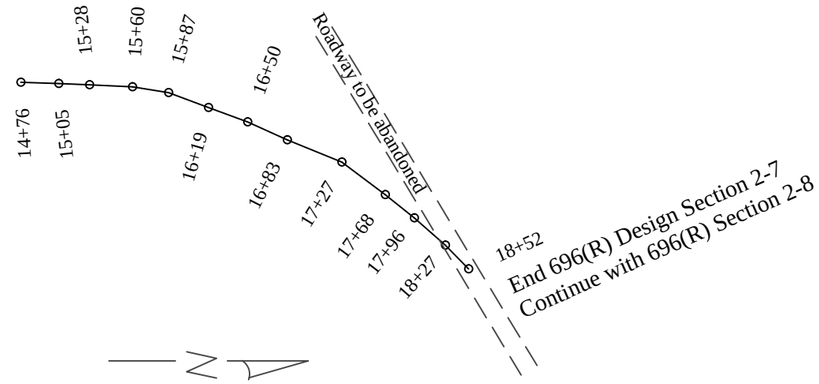


U. S. Department of Agriculture
FOREST SERVICE
Boise National Forest
Engineering
REGION 4

DESIGN	BY: D.Veater	
	CHECK: D.Voras	
DRAWING	BY: D.Veater	
	CHECK: D.Voras	
DRAWING NUMBER:		

Plan and Profile
NFSR #696 Section 2-7

West Scriver Stewardship



U. S. Department of Agriculture
FOREST SERVICE
Boise National Forest
Engineering
REGION 4

DESIGN	BY:	D.Veater
	CHECK:	D.Voras
DRAWING	BY:	D.Veater
	CHECK:	D.Voras

DRAWING NUMBER:

Plan and Profile
NFSR #696 Section 2-7 (cont.)

West Scriver Stewardship

ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
696(R) Section 2-8	18+52				Begin 696(R) Section 2-8 at end of Plan and Profile for 696(R) Section 2-7	16 Ft. road with turnouts.
	18+52 - 69+87	20103	0.97	Mile	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f, Logs f, and Stumps f	See Typical Sections & Construction Notes
	18+52 - 69+87	20402	0.97	Mile	Roadway Excavation, Compaction Method C, Finishing Method A	Improve existing turnouts, grade dips and ditch lines. Clean and recondition all culvert catch basins and outlets
	18+52 - 69+87	30322A	0.97	Mile	Road Reconditioning, Compaction Method A	
	21+57	60265A	54	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	23+72	20426	1	Each	Construct Grade Dip	
	24+67	60265A	48	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	25+57	60265A	46	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	27+02	60265A	46	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	28+82	20426	1	Each	Construct Grade Dip	
	29+62	60265A	48	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	31+97	20426	1	Each	Construct Grade Dip	
	32+62	20301A	1	Each	Removal of Culvert, Disposal Method A	Disposal by removal from National Forest Lands.
		60265B	60	L.F.	24" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	31+50 - 33+50	32232B	40	CY	Furnish and Place Base Course Aggregate, Grading D, Compaction Method B	Place aggregate, 4 inch compacted in place depth, traveled way, and turnouts.
	36+47	20426	1	Each	Construct Grade Dip	
	39+32	20426	1	Each	Construct Grade Dip	
	42+07	60265A	60	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	43+42	20426	1	Each	Construct Grade Dip	
	44+32	60265A	46	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer

U. S. Department of Agriculture
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Boise National Forest
Engineering
REGION 4

DESIGN BY: R.Smith CHECK: D.Woras
DRAWING BY: R.Smith CHECK: D.Woras
DRAWING NUMBER:

Description of Work
NFSR #696 Section 2-8

West Scriver Stewardship

ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
696(R) Section 2-8	45+02	20426	1	Each	Construct Grade Dip	
	51+17	20426	1	Each	Construct Grade Dip	
	54+12	20426	1	Each	Construct Grade Dip	
	56+27	60265A	60	L.F.	18" Corrugated Steel Pipe, 0.064 inch Thickness, Method A	Final location to be approved prior to installation by the Engineer
	60+22	20426	1	Each	Construct Grade Dip	
	64+57	20426	1	Each	Construct Grade Dip	
	65+12 - 69+87	32232B	95	C.Y.	Furnish and Place Base Course Aggregate, Grading D, Compaction Method B	Place aggregate, 4 inch compacted in place depth.
		32232C	422	C.Y.	Haul and Place Pit Run, Maximum Size 4", Compaction Method B	Place pit run, sub-base 18 inch depth
	69+87				End of Project	Junction with NFSR #696D(R), right

U. S. Department of Agriculture
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Boise National Forest
Engineering
REGION 4

DESIGN BY: R.Smith CHECK: D.Woras
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DRAWING NUMBER:

Description of Work
NFSR #696 Section 2-8 (cont.)

West Scriver Stewardship

ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
696D(R)	0+00				Begin reconstruction	14 Ft. road with turnouts. Starts at the Junction with NFSR #696(R) Sec. 2-8 at Station 69+87
	0+00 - 84+50	20103	1.60	Mile	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f, Logs f, and Stumps f	See Typical Sections & Construction Notes
	0+00 - 84+50	20402	1.60	Mile	Roadway Excavation, Compaction Method C, Finishing Method A	Improve existing turnouts, grade dips and ditch lines. Clean and recondition all culvert catch basins and outlets
	0+00 - 84+50	30322A	1.60	Mile	Road Reconditioning, Compaction Method A	Maintain existing template
	0+00 - 1+15	32232C	100	C.Y.	Haul and Place Pit Run, Maximum Size 4", Compaction Method B	Place pit run, sub-base 18 inch depth
	0+00 - 4+00	32232B	85	C.Y.	Furnish and Place Base Course Aggregate, Grading D, Compaction Method B	Place aggregate, 4 inch compacted in place depth.
	3+70	20426	1	Each	Construct Inslope Grade Dip	
		65001	1	Each	Furnish and install road closure device, type Gate, size 16'	Final location to be approved by the Engineer
	7+50	20426	1	Each	Construct Inslope Grade Dip	
	12+35	20426	1	Each	Construct Inslope Grade Dip	
	17+60					Junction with NFSR #696D1(R) Design Section, left
	22+55	20426	1	Each	Construct Inslope Grade Dip	
	27+60	20426	1	Each	Construct Inslope Grade Dip	
	30+00	20426	1	Each	Construct Inslope Grade Dip	
	37+60	20426	1	Each	Construct Inslope Grade Dip	
	42+10	20426	1	Each	Construct Inslope Grade Dip	
	46+00	20426	1	Each	Construct Inslope Grade Dip	
	49+00	20426	1	Each	Construct Inslope Grade Dip	
	54+25	20426	1	Each	Construct Inslope Grade Dip	

U. S. Department of Agriculture
FOREST SERVICE
Boise National Forest
Engineering
REGION 4

DESIGN BY: R.Smith CHECK: D.Woras
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DRAWING NUMBER:

Description of Work
NFSR #696D

West Scriver Stewardship

ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
696D(R)	61+00	20426	1	Each	Construct Inslope Grade Dip	
	69+00	20426	1	Each	Construct Inslope Grade Dip	
	75+50	20426	1	Each	Construct Inslope Grade Dip	
	79+60	20426	1	Each	Construct Inslope Grade Dip	
	82+15	20426	1	Each	Construct Inslope Grade Dip	
	84+50				End of Project	

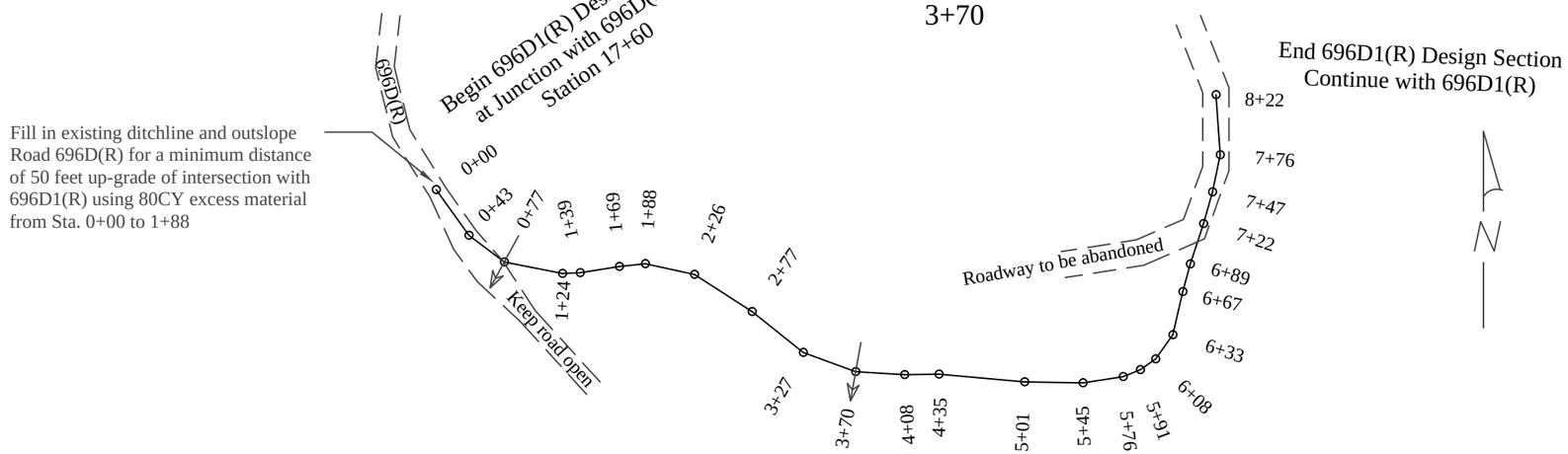
U. S. Department of Agriculture
FOREST SERVICE
Boise National Forest Engineering
REGION 4

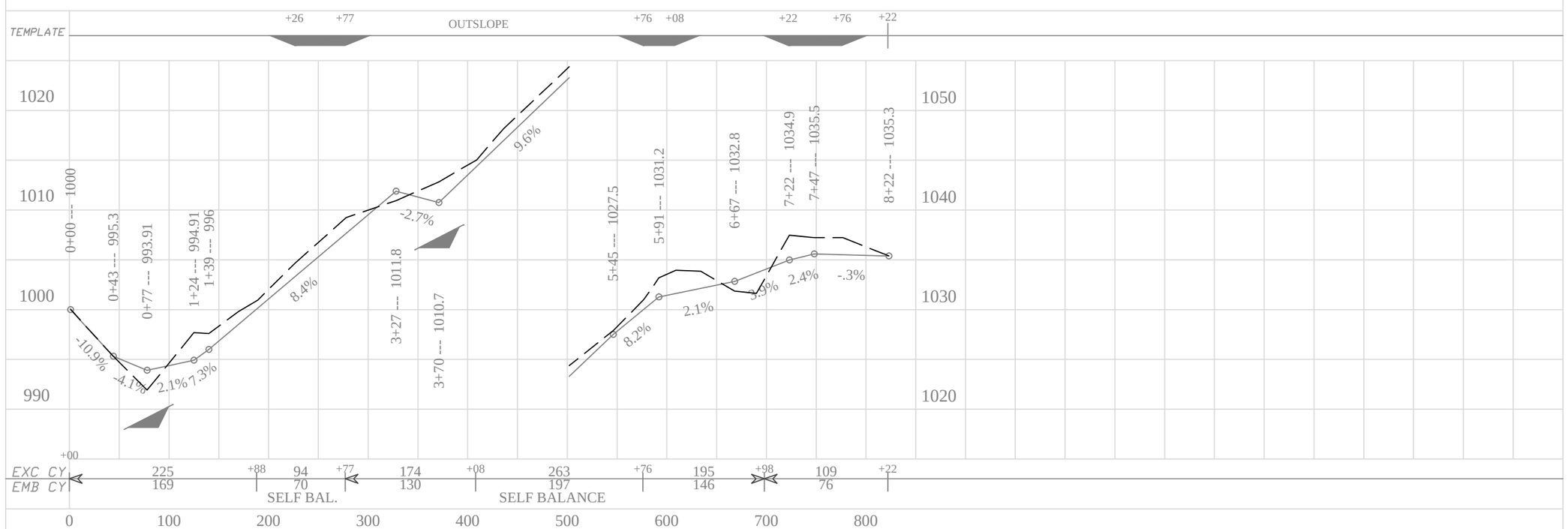
DESIGN BY: R.Smith
CHECK: D.Woras
DRAWING BY: R.Smith
CHECK: D.Woras
DRAWING NUMBER:

Description of Work
NFSR #696D (cont.)

West Scriver Stewardship

Construct Slash Blankets at the
Following Gradebreak Stations:
0+77
3+70





U. S. Department of Agriculture
FOREST SERVICE
Boise National Forest
Engineering
REGION 4

DESIGN	BY: D.Veater	
	CHECK: D.Voras	
DRAWING	BY: D.Veater	
	CHECK: D.Voras	
DRAWING NUMBER:		

Plan and Profile
NFSR #696D1 Design Section

West Scriver Stewardship

ROAD NO.	Station	ITEM NO.	QUAN	UNIT	DESCRIPTION OF WORK	REMARKS
696D1(R)	8+22				Begin reconstruction at end of Plan and Profile for 696D1(R) Design Section	14 Ft. road with turnouts
	8+22 - 48+85	20103	0.77	Mile	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f, Logs f, and Stumps f	See Typical Sections & Construction Notes
	8+22 - 48+85	20402	0.77	Mile	Roadway Excavation, Compaction Method C, Finishing Method A	Improve existing turnouts, curves, existing grade dips, and ditch lines. Clean and recondition all culvert catch basins and outlets
	8+22 - 48+85	30322A	0.77	Mile	Road Reconditioning, Compaction Method A	
	8+60	20426	1	Each	Construct Grade Dip	
	9+88 - 10+50	20402				Widen road 4 Ft. left
	11+25	20426	1	Each	Construct Grade Dip	
	13+35 - 14+00	20402				Widen road 4 Ft. left
	14+40	20426	1	Each	Construct Grade Dip	
	16+75	20426	1	Each	Construct Grade Dip	
	20+85	20426	1	Each	Construct Grade Dip	
	23+95	20426	1	Each	Construct Grade Dip	
	29+05	20426	1	Each	Construct Grade Dip	
	34+00 - 36+00	32232B	40	CY	Furnish and Place Base Course Aggregate, Grading D, Compaction B	Place aggregate, 4 inch compacted in place depth
	34+25	20426	1	Each	Construct Grade Dip	
	35+05	60265A	58	L.F.	Install 18 inch CMP	Final location to be approved prior to installation by the Engineer
	35+45	20426	1	Each	Construct Grade Dip	
	38+65	20426	1	Each	Construct Grade Dip	
	44+85	20426	1	Each	Construct Grade Dip	
	44+25 - 45+50	20402				Widen road 4 Ft. right
	48+50	20426	1	Each	Construct Grade Dip	
	48+85				End of Project	

U. S. Department of Agriculture
FOREST SERVICE
Boise National Forest
Engineering
REGION 4

DESIGN BY: R.Smith CHECK: D.Woras
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DRAWING NUMBER:

Description of Work
NFSR #696D1

West Scriver Stewardship