

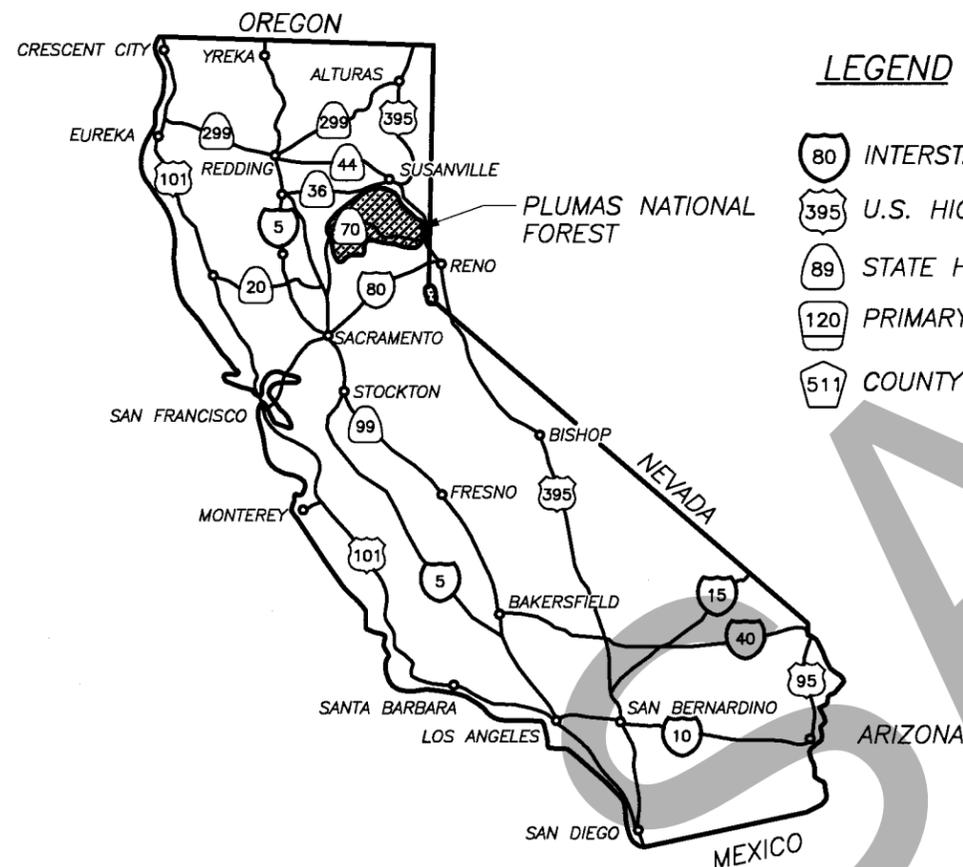
UNITED STATES DEPARTMENT OF AGRICULTURE
 FOREST SERVICE
 PACIFIC SOUTHWEST REGION FIVE



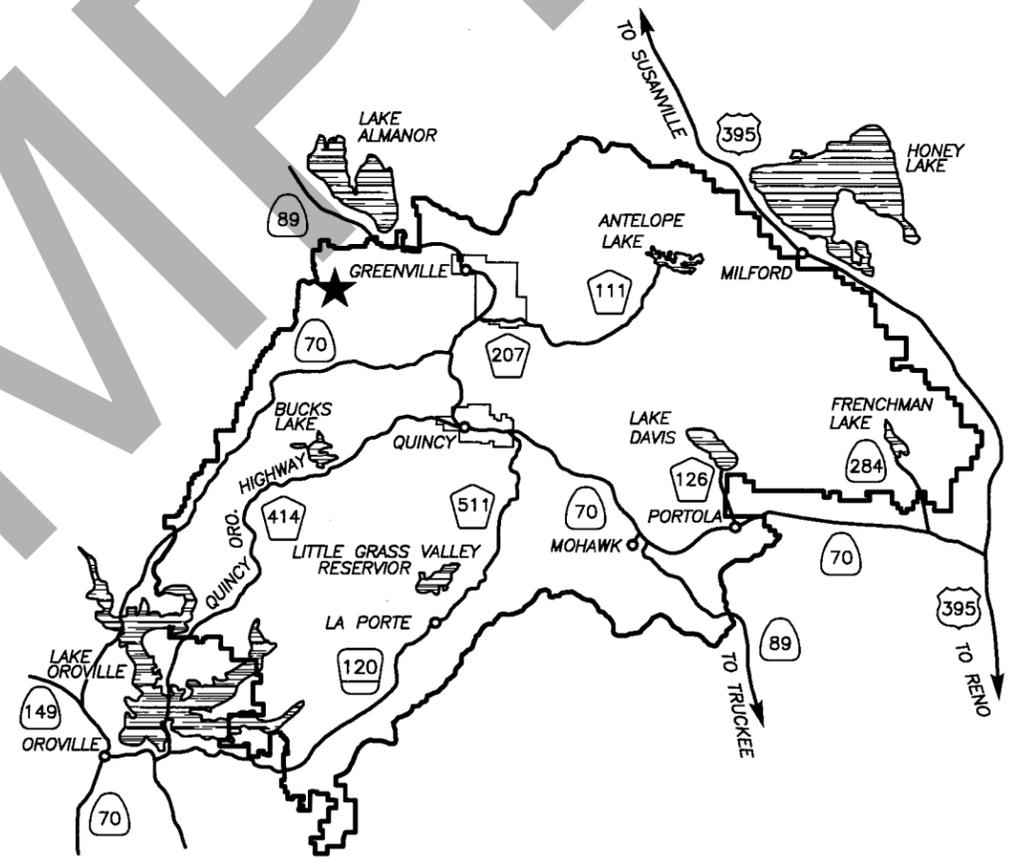
PLUMAS NATIONAL FOREST
MOSQUITO FIRE SALVAGE SBA TIMBER SALE
 MOUNT HOUGH RANGER DISTRICT

INDEX TO SHEETS

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2	LOCATION
3	SUMMARY OF QUANTITIES
4	LEGEND
5	CLEARING
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7	SIGNS
8	WORK LIST - 27N28



- LEGEND**
- INTERSTATE HIGHWAY
 - U.S. HIGHWAY
 - STATE HIGHWAY
 - PRIMARY FOREST ROUTE
 - COUNTY ROAD



STATE OF CALIFORNIA
 INDEX MAP

PLUMAS NATIONAL FOREST
 ★ PROJECT LOCATION

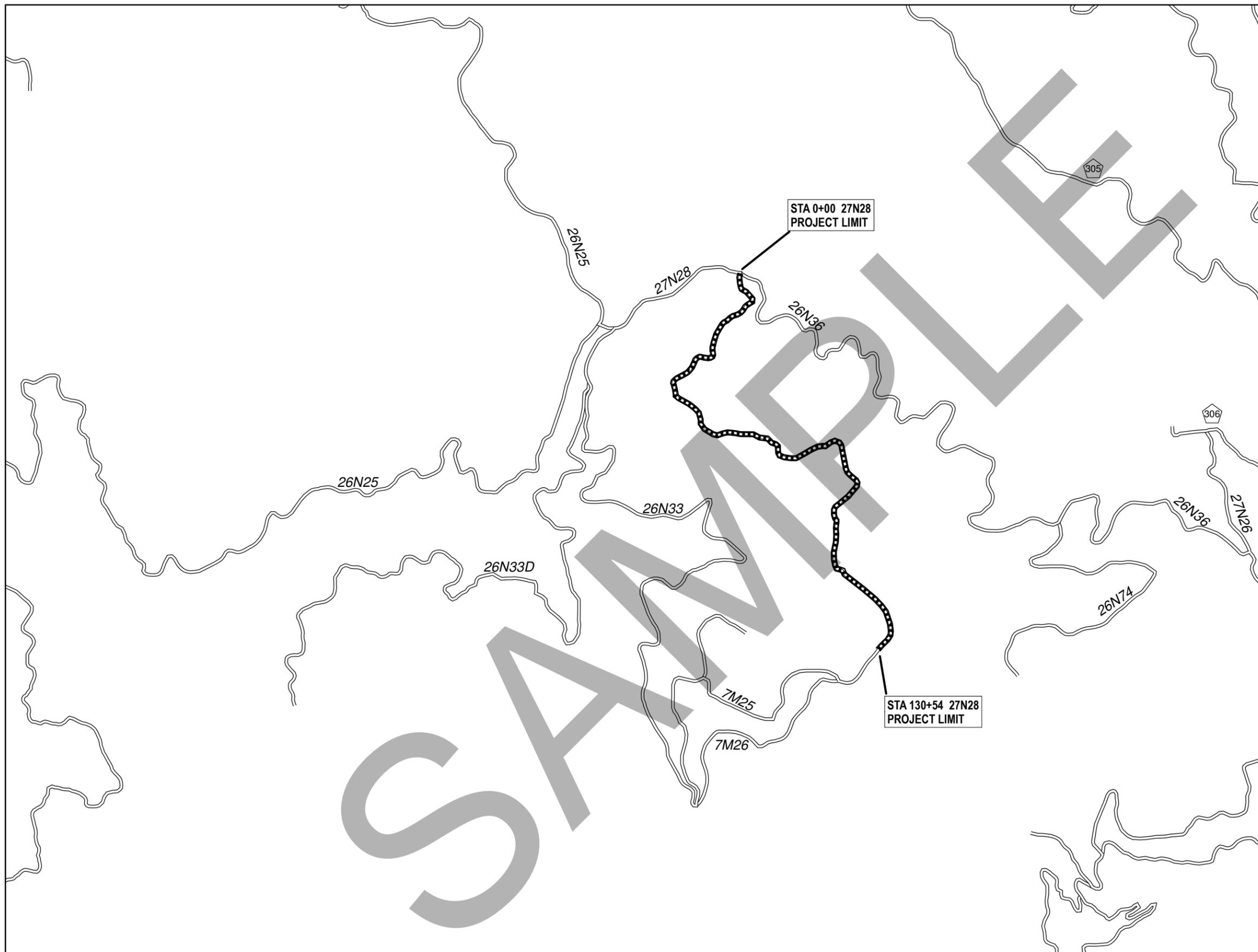


PREPARED BY: *Sam Smith* 8/6/13
 PROJECT ENGINEER DATE

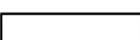
REVIEWED BY: *Sam Hopkins* 8/13/13
 PROJECT ENGINEER DATE

APPROVED BY: _____
 FOREST ENGINEER DATE

APPROVED BY: *Chris Christofferson* 8/13/13
 DISTRICT RANGER DATE



LEGEND

-  EXISTING TRANSP. ROAD
-  ROAD RECONSTRUCTION
-  NEW ROAD CONSTRUCTION
-  FOREST SERVICE ROAD NUMBER
-  COUNTY ROAD NUMBER
-  PRIVATE PROPERTY
-  NATIONAL FOREST
-  OTHER OWNERSHIP
-  WATER SOURCE
-  DISPOSAL SITE
-  GATE



DATE	REVISION	BY

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>PAY UNIT</u>	<u>QUANTITY ESTIMATED</u>
			26N28
15101	MOBILIZATION.	LS	1
20104	CLEARING AND GRUBBING, DISPOSAL OF TOPS AND LIMBS: F, LOGS: F, STUMPS: F.	ACRE	0.56
20401	ROADWAY EXCAVATION, COMPACTION METHOD B, FINISHING METHOD B.	CUBIC YARD	325
20420(A)	DRAINAGE EXCAVATION, TYPE: DIP.	EACH	25
30301	ROAD RECONDITIONING, SURFACING: B, COMPACTION METHOD B.	MILE	2.47

NOTES:

20104 INCLUDES REMOVAL OF TREES AND BRANCHES FALLEN ON THE ROADWAY

20401 INCLUDES WORK TO WIDEN THE ROADWAY AND REMOVE DIPS



U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
PLUMAS NATIONAL FOREST
QUINCY, CALIFORNIA

MOSQUITO FIRE SALVAGE
TIMBER SALE

SUMMARY OF QUANTITIES

DESIGNED: C. HIDALGO DATE: 07/13
DRAWN: G. BUTLER DATE: 07/13
CHECKED: G. BUTLER DATE: 08/13

DATE	REVISION	BY

DRAWING NAME
MTS_Dwgs.dwg

SHEET 3

 EXISTING TRANSPORTATION SYSTEM ROAD

 SPECIFIED ROAD RECONSTRUCTION

 SPECIFIED ROAD CONSTRUCTION

 FOREST SERVICE ROAD NUMBER

 STATE HIGHWAY ROAD NUMBER

 PLUMAS COUNTY ROAD NUMBER

 RIPRAP AND AGGREGATE SOURCE

 WATER SOURCE

 OTHER OWNERSHIP

 BORROW SOURCE (IE. EARTH, SAND, ETC)

 DISPOSAL SITE

 CATTLEGUARD

 UNMERCHANTABLE DECKING AREA

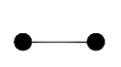
 MERCHANTABLE DECKING AREA

 CONSTRUCTION SLASH DISPOSAL AREA

 STUMP DISPOSAL AREA

 OVERSIDE DRAIN

 REINFORCED SUBGRADE

 GATE

 GUARDRAIL BARRIER

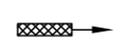
 RIPRAP (ENERGY DISSIPATOR)

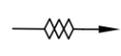
 CONSTRUCT TURNAROUND

 CONSTRUCT HAMMERHEAD TURNAROUND

 CONSTRUCT TURNOUT

 ROLLING DIP

 WATERBAR

 REINFORCED ROLLING DIP

 LOW WATER CROSSING

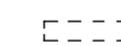
 STREAM

 LEAD-IN, LEAD-OFF, OR DRAINAGE DITCH

 CULVERT PIPE, PLAN VIEW

 CULVERT PIPE, PROFILE VIEW

 CULVERT PIPE, WITH CATCH BASIN

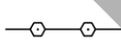
 EARTH BARRIER

 UNDER DRAIN (PMP) OR TEXTILE DRAIN

 GABION BASKET

 "P" (PRELIMINARY) LINE AS SURVEYED

 "L" LINE - CENTER LINE TO BE CONSTRUCTED

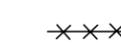
 OFFICE LINE

 V.P.I. (VERTICAL POINT OF INTERSECTION)

 RIGHT-OF-WAY LIMITS

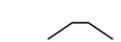
 SECTION LINE

 CUT LINE } CONSTRUCTION LIMITS

 FILL LINE } CONSTRUCTION LIMITS

 FENCE LINE

 BRIDGE

 BERM

 US HIGHWAY

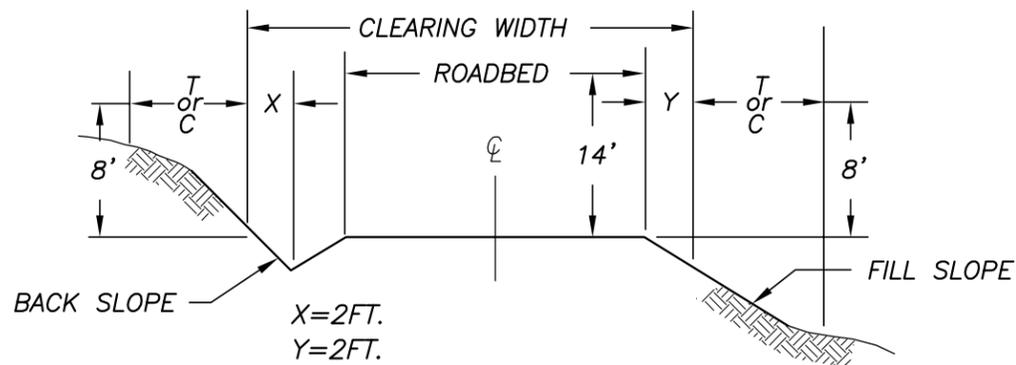
 CAMPGROUND

 INTERSTATE HIGHWAY

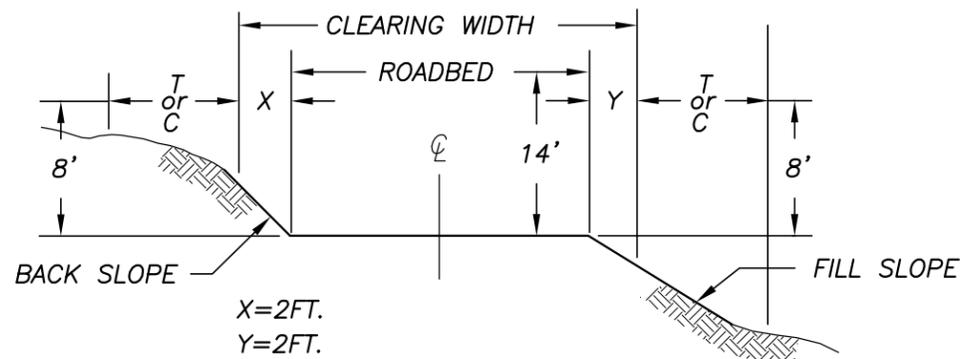
 SALESTAR

 NORTH ARROW

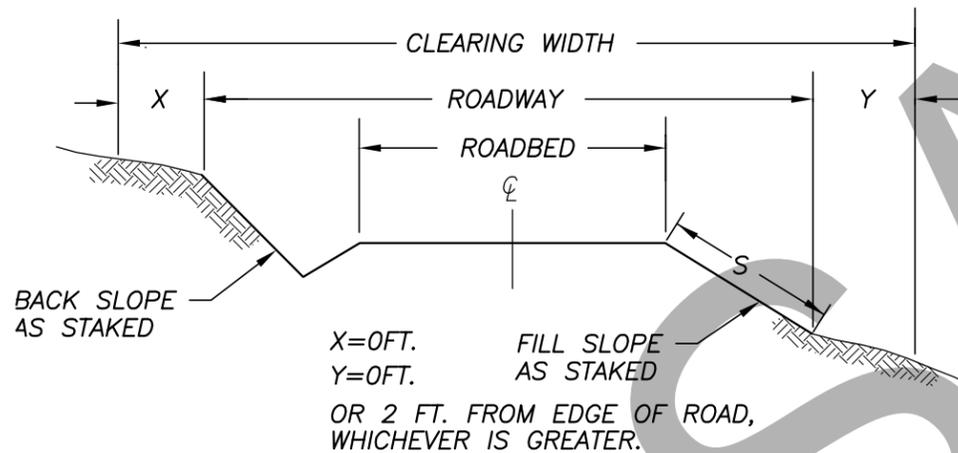
CLEARING



RECONSTRUCTION ~ DITCH SECTION



RECONSTRUCTION ~ NO DITCH



NEW CONSTRUCTION & NEWLY CONSTRUCTED SLOPES

NOTES:

- ① ROADBED WIDTHS SHOWN ON PLAN AND PROFILE, OR WORKLIST PLANS, INCLUDE TURNOUTS AND CURVE WIDENING.
 - ② BLADE TO DAYLIGHT OR CONSTRUCT DRAINAGE DITCH, UNLESS OTHERWISE SHOWN ON PLANS. WHERE DAYLIGHT WILL EXCEED 5', CONSTRUCT DRAINAGE DITCH. WHEN AGREED, A DRAINAGE DITCH SHAPE MAY BE USED FOR LEAD-OFF DITCH.
- A CROSS SLOPE OF 4% +/- 1%, SHALL BE USED FOR ALL SUPERELEVATED CURVES, AND FOR ALL INSLOPED, OUTSLOPED, OR CROWNED ROADBEDS.

AGGREGATE SHALL BE SLOPED 3.1:1 OR TO EXISTING DITCH SLOPE.

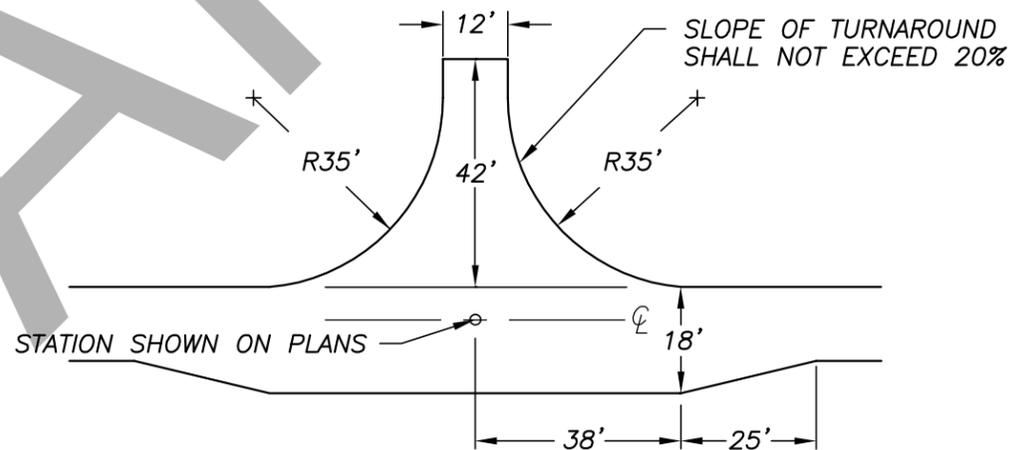
SEEDING AND MULCHING AREAS SHALL CONSIST OF FILL SLOPES, SPECIFIED AREAS IDENTIFIED ON THE DRAWINGS, AND AREAS UNNECESSARILY DISTURBED OR REPEATEDLY USED DURING CONSTRUCTION. DIMENSION "S", ON NEW CONSTRUCTION AND NEWLY CONSTRUCTED SLOPES SHALL BE 6', OR TOE OF FILL, WHICHEVER IS GREATER.

A GRADER FINISH WITH ROLLER COMPACTION SHALL BE REQUIRED ON ALL PROJECTS. THE SUBGRADE SHALL BE VISIBLY MOIST DURING BLADING AND SHAPING OPERATIONS.

IN CLEAR OR TRIM SECTIONS, LEAVE STABLE TREES OVER 3' TALL AND LESS THAN 3" D.B.H. THAT DOESN'T INTERFERE W/SIGHT DISTANCE. (SPS 201.04)

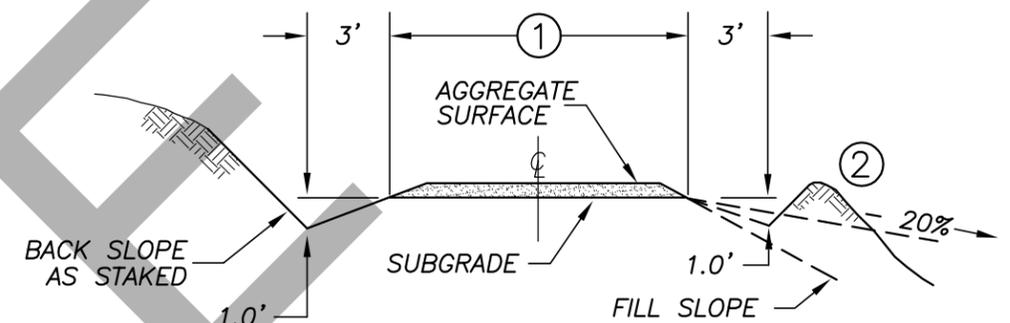
ROADS CONSTRUCTED UNDER SECTION 204 SHALL USE TOLERANCE CLASS G.

"C"=CLEAR "T"=TRIM

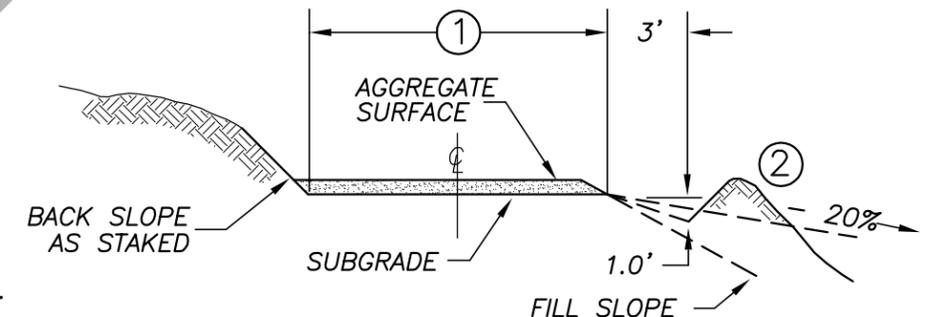


HAMMERHEAD TURNAROUND

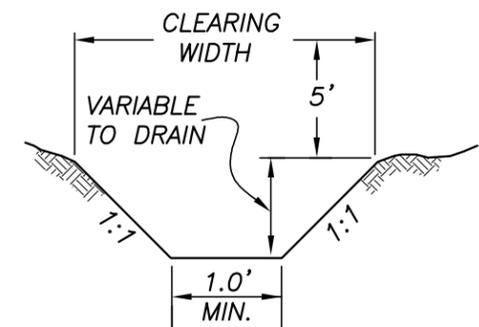
CONSTRUCTION



TYPICAL ROADWAY ~ DITCH SECTION

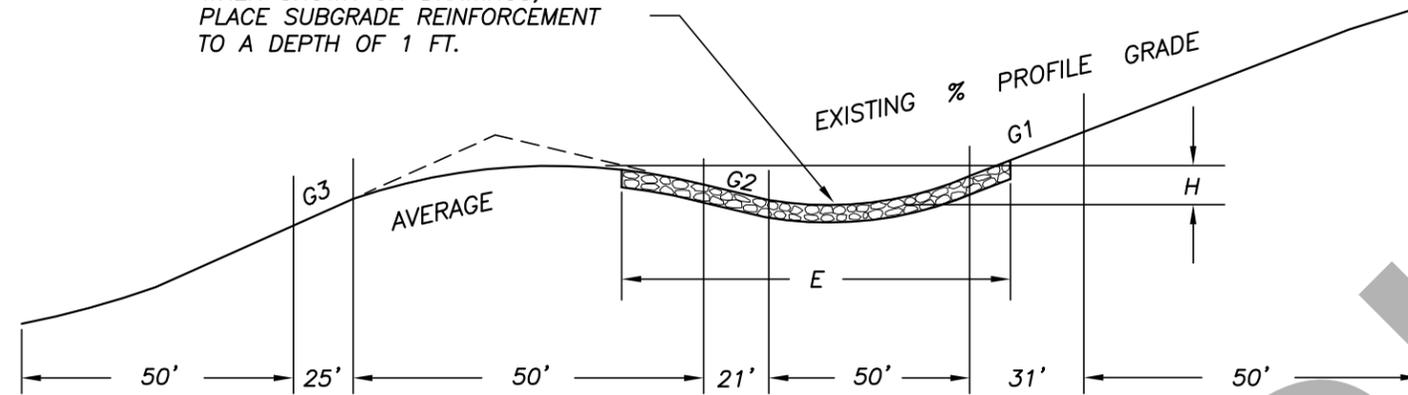


TYPICAL ROADWAY ~ NO DITCH



LEAD-OFF DITCH

WHEN SHOWN ON DRAWINGS,
PLACE SUBGRADE REINFORCEMENT
TO A DEPTH OF 1 FT.



PROFILE VIEW

ROLLING DIP CONSTRUCTION DIMENSIONS						
% PROFILE GRADE	CONST. GRADE			DEPTH (H)	REINFORCEMENT	
	G1	G2	G3		LENGTH (E)	CUBIC YARDS
0 TO 4	-7	2	-6	0.6'	20'	12
5 TO 6	-10	2	-9	0.6'	20'	12
7 TO 8	-13	2	-12	0.5'	20'	12
9 TO 10	-16	2	-15	0.5'	30'	18
OVER 10 % NOT RECOMMENDED						

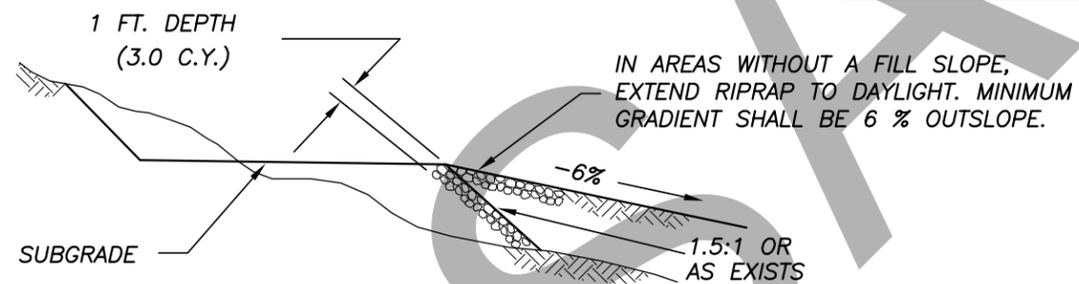
ROLLING DIP CONSTRUCTION NOTES:

1. THE CROSS SLOPE OF THE ROADBED SHALL BE MAINTAINED THROUGH THE DIP.
2. THE DRAIN LINE SHALL BE PERPENDICULAR TO THE CENTER LINE OF THE ROADBED.
3. PLACE CLASS 2 OR 3 OUTLET RIPRAP WHEN SHOWN ON THE DRAWINGS. REFER TO OUTLET RIPRAP DETAIL BELOW.
4. FOR DIPS ON AGGREGATE SURFACED ROADS, REDUCE (H) DEPTH BY 0.2 FT.
5. WATERBAR AND DIP CONSTRUCTION TOLERANCES SHALL BE IN ACCORDANCE WITH TABLE 204-2, TOLERANCE CLASS A.

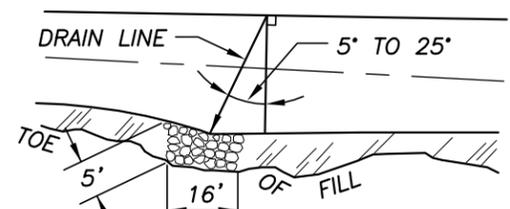
WATERBAR CONSTRUCTION NOTES:

1. WATERBARS ARE USUALLY CONSTRUCTED BY ANGLE DOZERS. WATERBARS SHALL HAVE A CLEAN OUTLET AND BE CONSTRUCTED SO THEY WILL NOT FAIL THROUGH ALL WEATHER USE.
2. THE WATERBAR DRAIN LINE SHALL BE SKEWED 5° TO 25°.
3. WATERBARS SHALL BE CONSTRUCTED SO THAT DRAINLINE EXCAVATION IS APPROXIMATELY SIX INCHES (6") INTO SOLID SOIL AND THE TOP OF COMPACTED WATERBAR IS TWELVE INCHES (12") ABOVE THE DRAINLINE.
4. THE TOTAL LENGTH OF THE WATERBAR SHALL NOT BE LESS THAN SIXTEEN FEET (16').
5. CROSS SLOPE OF THE DRAIN LINE SHALL BE EQUIVALENT TO TO THE CROSS SLOPE OF THE ROAD PLUS TWO PERCENT (2%).

OUTLET RIPRAP



CROSS SECTION VIEW



PLAN VIEW

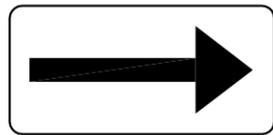
REINFORCEMENT GRADATION	
SIEVE SIZE	% PASSING
12"	100%
2"	20-80%
3/4"	0-40%
# 200	0-10%

DETOUR

M4-B
24" X 12"



M4-10R
24" X 9"



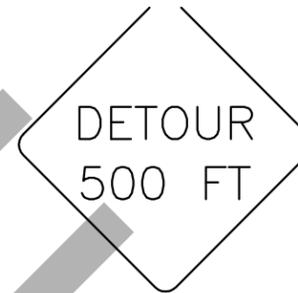
W1-6
48" X 24"



W20-1
48" X 48"



W20-2d
48" X 48"



W20-2c
48" X 48"



W21-3
36" X 36"



W3-1
30" X 30"



W5-2
36" X 36"



W8-6
30" X 30"



W8-7
30" X 30"



W21-1
30" X 30"

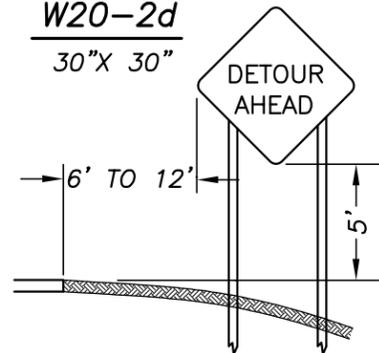


W11-1
30" X 30"

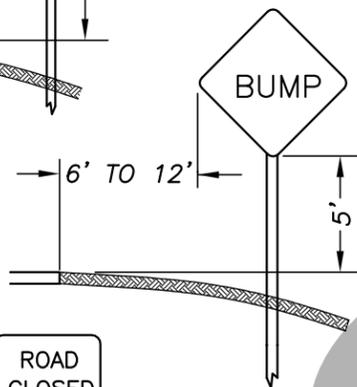


W21-2
24" X 24"

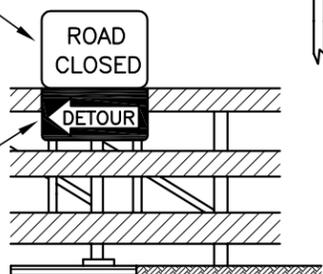
W20-2d
30" X 30"



W8-1
30" X 30"



R11-2
48" X 30"



M5-7
48" X 18"

GENERAL NOTES:

DESIGNS FOR SIGNS AND BARRICADES SHOWN ABOVE SHALL BE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".

SIGNS SHALL BE LOCATED WHERE THEY WILL BE CONSPICUOUSLY VISIBLE DAY AND NIGHT ON THE RIGHT HAND SIDE OF APPROACHING TRAFFIC. THEY SHALL BE FACING TRAFFIC AND LOCATED WHERE THEY CAN BE SEEN AT ALL TIMES BY APPROACHING DRIVERS WITH A MINIMUM OF EFFORT.

WHEN A SIGN IS REQUIRED FOR AN EXTENDED PERIOD, IT SHALL BE FASTENED TO 4 X 4 POSTS WITH 2, 3/8" CARRIAGE BOLTS. PORTABLE SUPPORTS ARE PERMITTED FOR SHORT PERIODS PROVIDED THE CONSTRUCTION IS SUCH THAT WIND OR OTHER AGENTS CANNOT UPSET THE SIGN.

SIGN W20-1 SHALL BE ERECTED 1500' FROM EACH END OF CONSTRUCTION OPERATIONS.

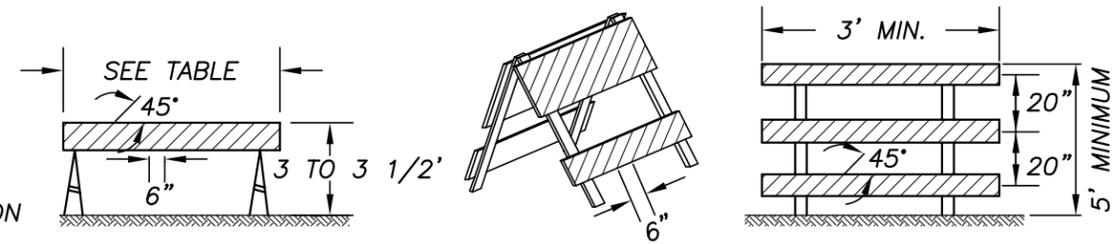
SIGN W21-3 AND W11-1 SHALL BE ERECTED AT EACH END OF AREAS WHERE HEAVY EQUIPMENT IS IN OPERATION AND SHALL BE REPEATED EVERY 1/2 MILE IF THE OPERATION EXTENDS OVER ONE MILE.

OTHER SIGNS SHOWN ABOVE SHALL BE USED AS INDICATED BY THEIR DESIGN.

IF OTHER SIGNS NOT SHOWN ABOVE ARE REQUIRED THEY SHALL ALSO CONFORM TO THOSE SHOWN IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

SELECTION AND PLACEMENT OF ALL SIGNS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.

LIGHTING DEVICES SUCH AS FLASHERS, TORCHES, LANTERNS, AND ELECTRIC LIGHTS SHALL BE PLACED AND MAINTAINED FROM SUNSET TO SUNRISE AT ALL POINTS OF HAZARD AND ALL SIGNS INDICATING CAUTION.



TYPE I BARRICADE TYPE II BARRICADE TYPE III BARRICADE

NOTE: FOR DIMENSIONS SEE TABLE

TYPE	I	II	III
WIDTH OF RAIL	8"MIN-12"MAX.	8"MIN-12"MAX.	8"MIN-12"MAX.
LENGTH OF RAIL	6'-8'	3'MIN-4'MAX.	3'MIN-VARIABLE MAX.
WIDTH OF STRIPES	6 IN.	6 IN.	6 IN.
HEIGHT	3 FT. MIN.	3'MIN-3 1/2'MAX.	5 FT. MIN.
TYPE OF FRAME	DEMOUNTABLE OR HEAVY "A" FRAME	LIGHT "A" FRAME	POST OR SKIDS
FLEXIBILITY	ESSENTIALLY MOVABLE	PORTABLE	ESSENTIALLY PERMANENT

0+00		PROJECT LIMIT.	64+20		CONSTRUCT DIP, DRAIN RIGHT.
0+00	- 130+54	27N28 CONSTRUCT ROADWAY IN ACCORDANCE WITH SECTIONS 201, 202, 203, AND 204. THE TREATMENT FOR CONSTRUCTION SLASH SHALL BE METHOD F - SCATTERING. MERCHANTABLE TIMBER SHALL BE DECKED AS SHOWN ON THE DRAWINGS. THE EXCAVATION AND EMBANKMENT SHALL BE METHOD B LAYER PLACEMENT, ROLLER COMPACTION. THE CONSTRUCTION TOLERANCE CLASS SHALL BE "G". THE FINISHED ROADBED WIDTH SHALL INCLUDE TURNOUTS AND CURVE WIDENING. THE MINIMUM FINISHED ROADBED WIDTH SHALL BE 14 FEET.	67+96	- 73+43	OUTSLOPE ROADBED, LEFT.
0+00	- 35+08	OUTSLOPE ROADBED, LEFT.	68+83		CONSTRUCT DIP, DRAIN LEFT.
3+45		CONSTRUCT DIP, DRAIN LEFT.	73+43	- 94+98	OUTSLOPE ROADBED, RIGHT.
5+22		CONSTRUCT DIP, DRAIN LEFT.	73+43		CONSTRUCT DIP, DRAIN LEFT.
7+00	- 8+10	WIDEN ROADBED 6', RIGHT. FINISHED ROADBED WIDTH 18', INCLUDES 25' TAPERS ATE EACH END.	77+90		CONSTRUCT DIP, DRAIN LEFT.
8+04		REMOVE DIP.	85+75		REMOVE DIP.
9+00		CONSTRUCT DIP, DRAIN LEFT.	85+75	- 86+85	WIDEN ROADBED 7', RIGHT. FINISHED ROADBED WIDTH 19', INCLUDES 25' TAPERS ATE EACH END.
14+20		CONSTRUCT DIP, DRAIN LEFT.	94+98	- 99+35	OUTSLOPE ROADBED, LEFT.
15+60		REMOVE DIP.	95+00		CONSTRUCT DIP, DRAIN LEFT.
19+45		CONSTRUCT DIP, DRAIN LEFT.	95+96		REMOVE DIP.
20+49		REMOVE DIP.	99+35	- 111+60	OUTSLOPE ROADBED, RIGHT.
21+81		CONSTRUCT DIP, DRAIN LEFT.	103+74		CONSTRUCT DIP, DRAIN RIGHT.
24+89		CONSTRUCT DIP, DRAIN LEFT.	106+75		CONSTRUCT DIP, DRAIN RIGHT.
27+35		CONSTRUCT DIP, DRAIN LEFT.	111+96	- 116+30	OUTSLOPE ROADBED, LEFT.
27+30	- 28+40	WIDEN ROADBED 8' RIGHT. FINISHED ROADBED WIDTH 20', INCLUDES 50' TAPERS AT EACH END.	113+23		CONSTRUCT DIP, DRAIN LEFT.
29+26		CONSTRUCT DIP, DRAIN LEFT.	115+70	- 116+50	WIDEN ROADBED 8', RIGHT. FINISHED ROADBED WIDTH 20', INCLUDES 25' TAPERS ATE EACH END.
35+08	- 67+95	OUTSLOPE ROADBED, RIGHT.	116+30	- 130+54	OUTSLOPE ROADBED, RIGHT.
40+64		CONSTRUCT DIP, DRAIN RIGHT.	116+30	- 117+60	WIDEN ROADBED 18', LEFT. FINISHED ROADBED WIDTH 30', INCLUDES 25' TAPERS AT EACH END.
41+68		REMOVE DIP.	118+15		CONSTRUCT DIP, DRAIN RIGHT.
48+99		CONSTRUCT DIP, DRAIN RIGHT.	119+80		REMOVE DIP.
51+82		REMOVE DIP.	121+43		CONSTRUCT DIP, DRAIN RIGHT.
53+26		CONSTRUCT DIP, DRAIN RIGHT.	124+34		CONSTRUCT DIP, DRAIN RIGHT.
61+72		CONSTRUCT DIP, DRAIN RIGHT.	127+96		CONSTRUCT DIP, DRAIN RIGHT.
			129+18		REMOVE DIP.
			130+54		PROJECT LIMIT

