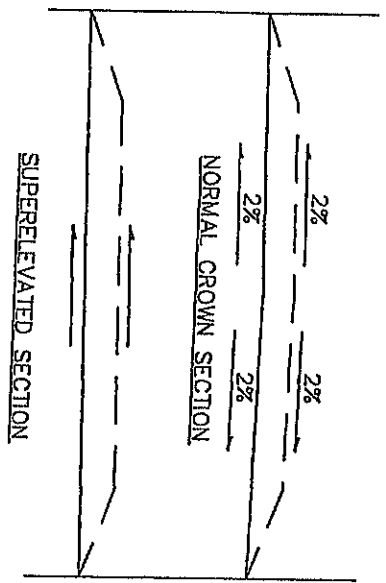
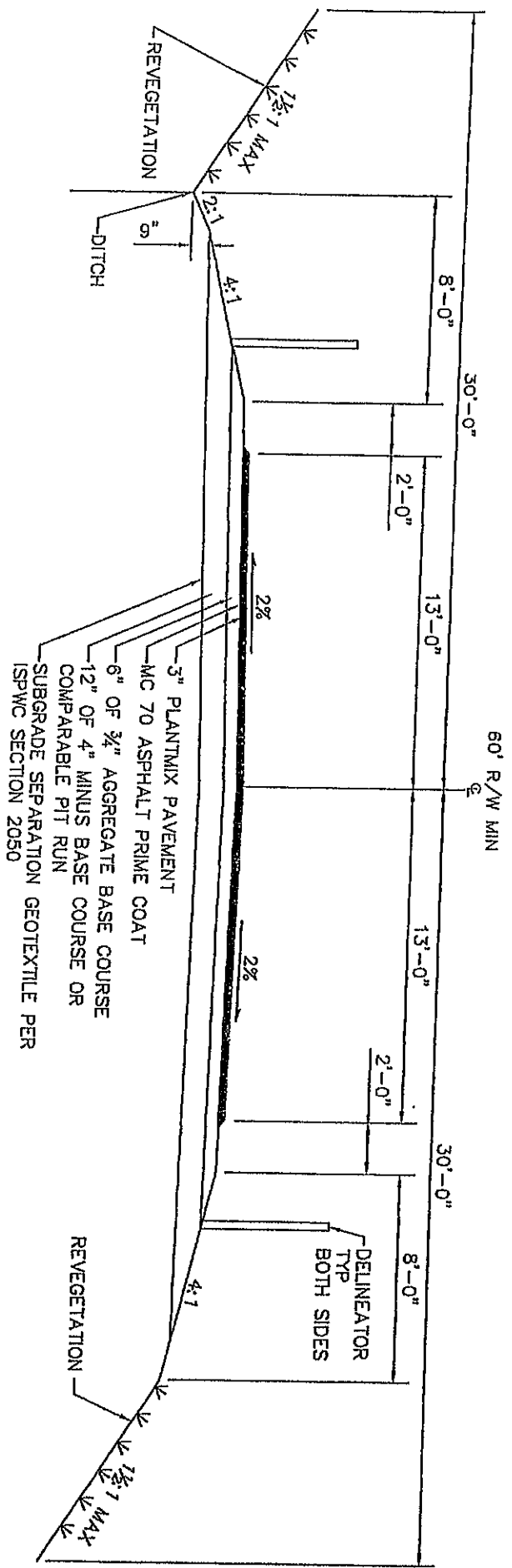


NOTE:  
 SIX INCHES OF DECOMPOSED GRANITE MAY BE SUBSTITUTED AT OPTION OF THE CAMAS COUNTY COMMISSIONERS OR THE CAMAS COUNTY ROAD AND BRIDGE SUPERVISOR IN LIEU OF 3/4" ROAD MIX.  
 CUT AND FILL SLOPES IN DIFFICULT TERRAIN MAY REQUIRE SPECIAL CONSIDERATION.  
 NO DEVIATION FROM THIS WILL BE ALLOWED EXCEPT BY APPROVAL OF OF THE CAMAS COUNTY COMMISSIONERS OR THE CAMAS COUNTY ROAD AND BRIDGE SUPERVISOR.  
 APPROVED AND ADOPTED BY THE CAMAS COUNTY COMMISSIONERS.

**FORSGREN**  
*Associates Inc.*

CAMAS COUNTY  
 GRAVEL ROAD STANDARDS

FEBRUARY 2009  
 PROJECT NO.: 208119  
 SHEET NO. SHEET 1



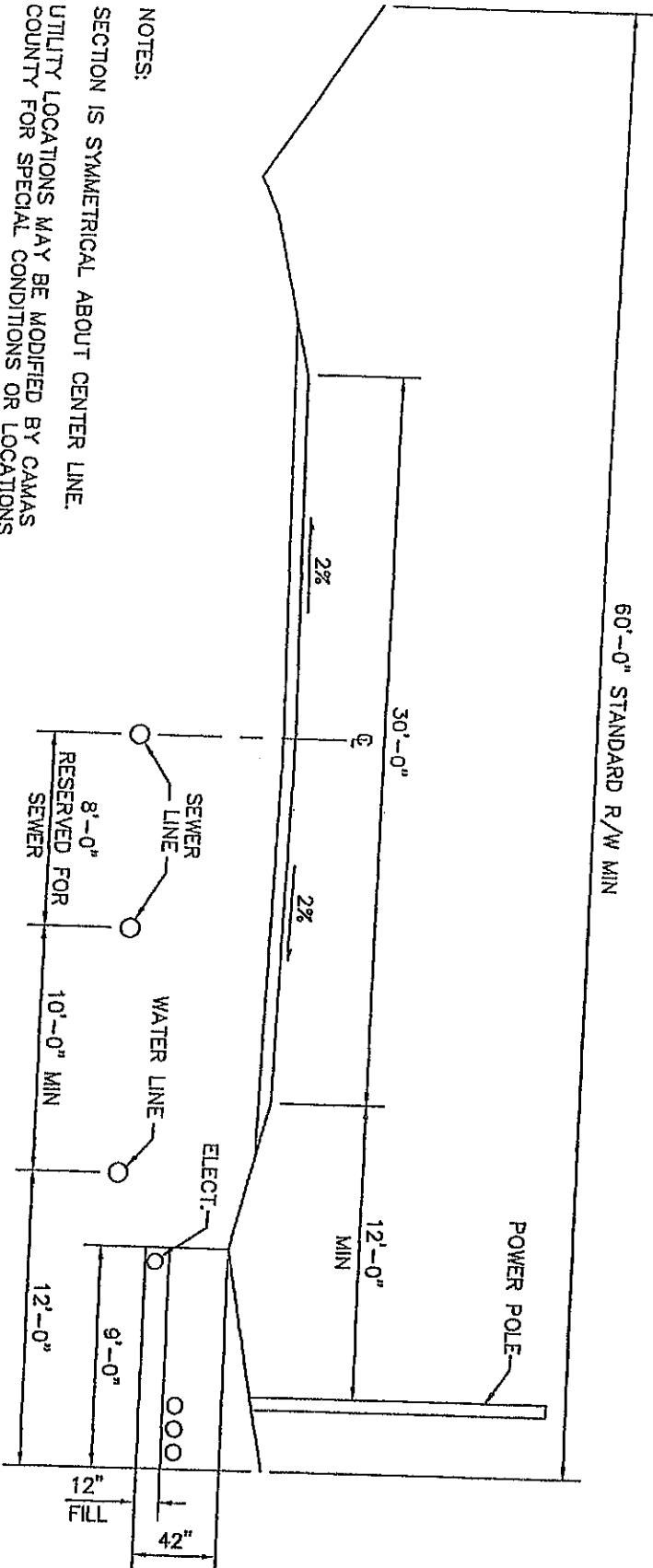
NOTE:  
 CUT AND FILL SLOPES IN DIFFICULT TERRAIN MAY REQUIRE SPECIAL CONSIDERATION.  
 NO DEVIATION FROM THIS WILL BE ALLOWED EXCEPT BY APPROVAL OF OF THE CAMAS COUNTY COMMISSIONERS OR THE CAMAS COUNTY ROAD AND BRIDGE SUPERVISOR.  
 APPROVED AND ADOPTED BY THE CAMAS COUNTY COMMISSIONERS.

**FORSGREN**  
*Associates, Inc.*

CAMAS COUNTY  
 ASPHALT ROAD STANDARDS

FEBRUARY 2009  
 PROJECT NO.: 208119  
 SHEET NO. SEPT 2

60'-0" STANDARD R/W MIN



NOTES:  
SECTION IS SYMMETRICAL ABOUT CENTER LINE.  
UTILITY LOCATIONS MAY BE MODIFIED BY CAMAS COUNTY FOR SPECIAL CONDITIONS OR LOCATIONS.  
ALL MANHOLES AND WATER VALVES SHALL BE RECESSED 0.1 FEET BELOW ROAD SURFACE.  
NO STRUCTURE OR FIXTURE SHALL BE LOCATED SO THAT IT INTERFERES WITH SNOW FLOWING ACTIVITY.  
DEPTHS TO SEWER AND WATER LINES ARE TO BE DETERMINED BY CAMAS COUNTY AND DESIGN ENGINEER.

(SEE NOTES FOR DEPTH OF SEWER AND WATER LINES.)

**FORSGREN**  
*Associates Inc.*

CAMAS COUNTY

UNDERGROUND UTILITY LOCATION STANDARDS

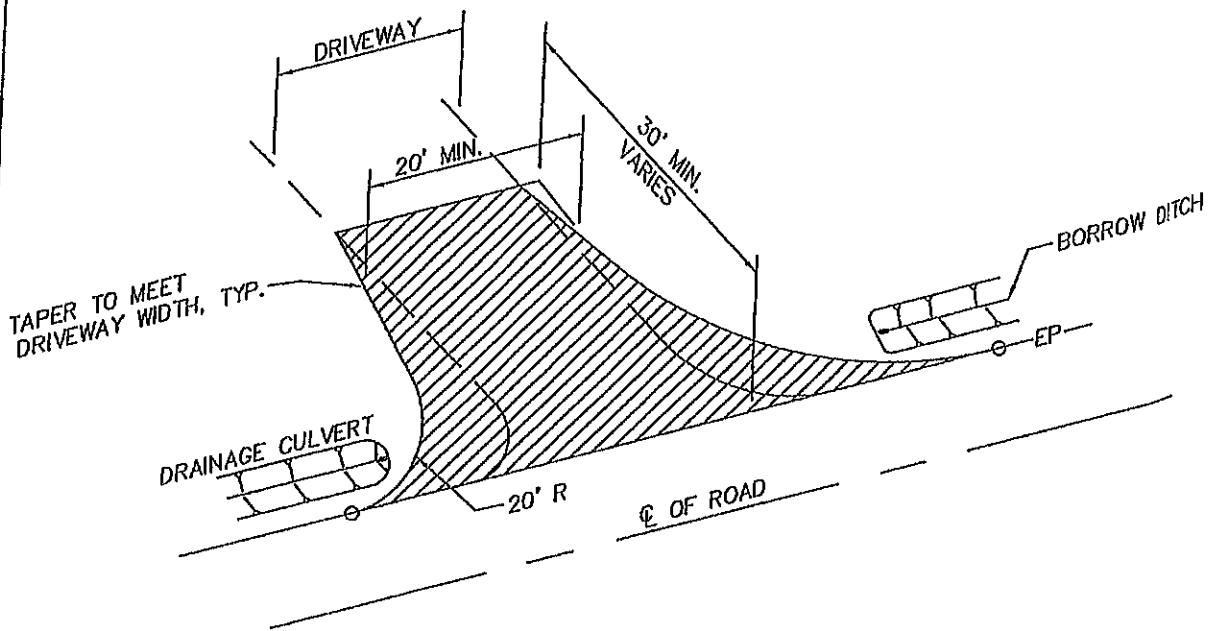
FEBRUARY 2009

PROJECT NO.:

208119

SHEET NO.

DEPT 3



NOTES:

INSTALL 12" OF ¾" MINUS CRUSHED AGGREGATE BASE WITH 2 ½" OF HOT PLANT MIX PAVEMENT OR INSTALL ¾" MINUS CRUSHED AGGREGATE OR DECOMPOSED GRANITE AS REQUIRED.

INSTALL 12" MINIMUM DIAMETER PIPE CULVERT OR AS DESIGNED BY THE COUNTY ENGINEER OR CAMAS COUNTY ROAD AND BRIDGE.

AMOUNT OF DRIVEWAY REPAIR VARIES BASED ON GRADE CHANGE. USE 30' AS A MINIMUM.

FEBRUARY 2009

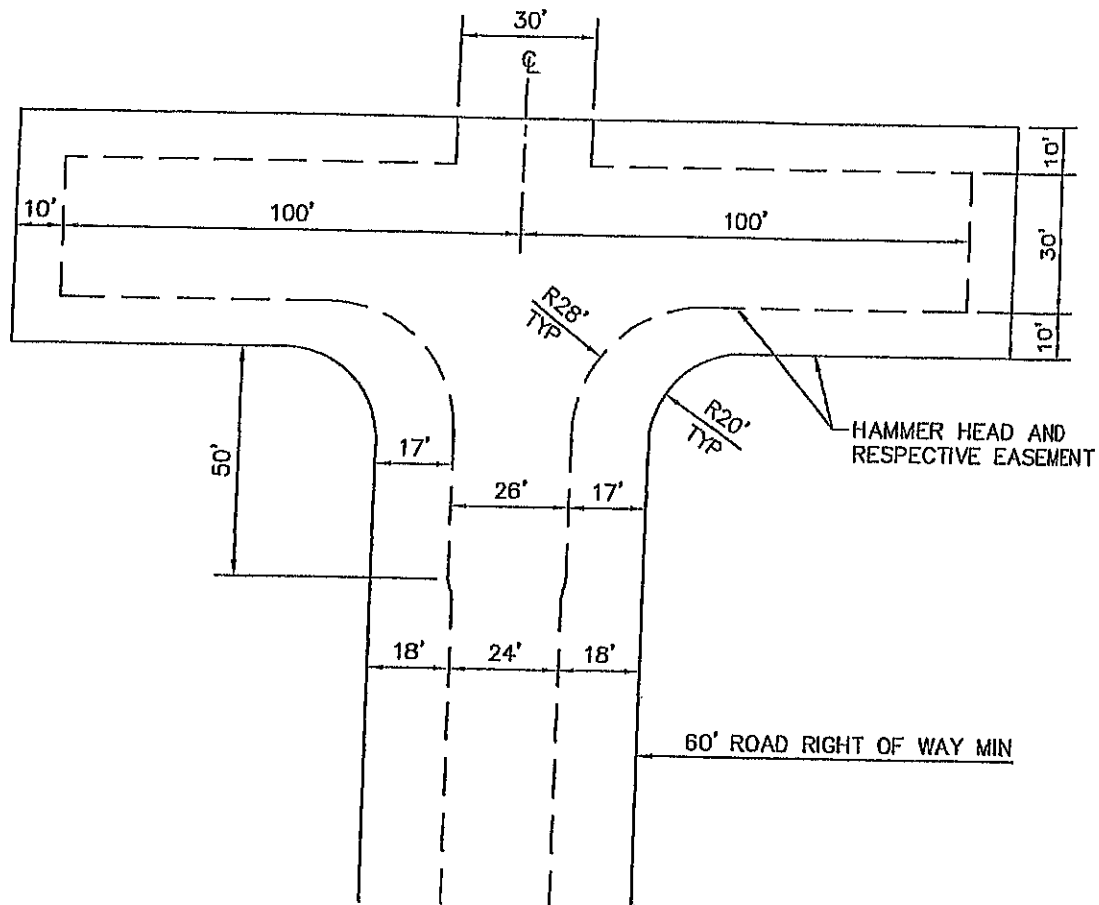
**FORSGREN**  
*Associates, Inc.*

CAMAS COUNTY

RURAL DRIVEWAY APPROACH

PROJECT NO.:  
208119

SHEET NO.  
SHEET 4



FEBRUARY 2009

**FORSGREN**  
Associates, Inc.

CAMAS COUNTY

PROJECT NO.  
208119

TYPICAL HAMMERHEAD APPROACH

SHEET NO.  
SHEET 5

3/4" MAXIMUM CRUSHED ROCK,  
MATCH EXISTING THICKNESS  
EXCEPT 2" MINIMUM ALLOWANCE

TRIM TO STRAIGHT LINE TO REMOVE  
DAMAGED, BROKEN AND UNSOUND  
PAVEMENT, EDGES TO BE UNIFORMLY  
SUPPORTED ON FIRM GROUND

SEAL AND COVER COAT TO 6"  
OUTSIDE PATCH (M-81 OR M-82)  
(OPTIONAL)

HOT PLANT MIX ASPHALT  
CONCRETE, MATCH EXISTING  
PAVEMENT THICKNESS, 3" MINIMUM  
COMPACTED

1" CROWN TO ALLOW  
FOR POUNDING BY  
TRAFFIC

PRIME COAT  
(RC-70 OR MC-80)

3/4" MAX., CRUSHED  
ROCK, MATCH EXISTING  
THICKNESS EXCEPT 10"  
IS MINIMUM ALLOWABLE

ASPHALT CONCRETE  
CLASS A

TRENCH BACKFILL CLASS AS  
SHOWN ON PLANS OR AS  
DIRECTED BY COUNTY. BACKFILL  
WITH SUITABLE MATERIAL AND  
COMPACT IN 12" LIFTS.

ROCK SURFACE  
CLASS B

NOTE:

FOR SPECIFICATIONS SEE CAMAS COUNTY  
STANDARD ROAD AND STREET SPECIFICATIONS.

USE CLASS A BACKFILL UNDER PAVEMENT  
UNLESS CLASS B IS SPECIFICALLY AUTHORIZED  
BY COUNTY.

USE CLASS B BACKFILL UNDER GRAVEL OR  
UNSURFACED AREAS

**FORSGREEN**  
*Associates, Inc.*

CAMAS COUNTY

TRENCH DETAIL

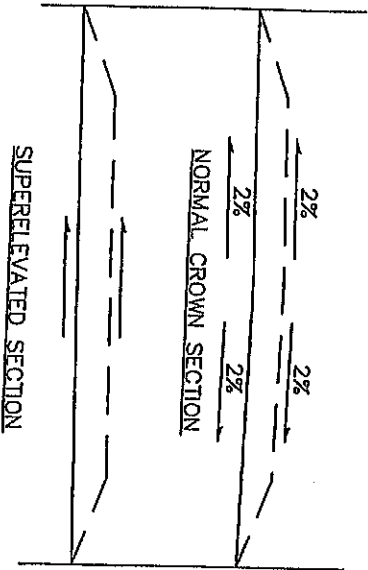
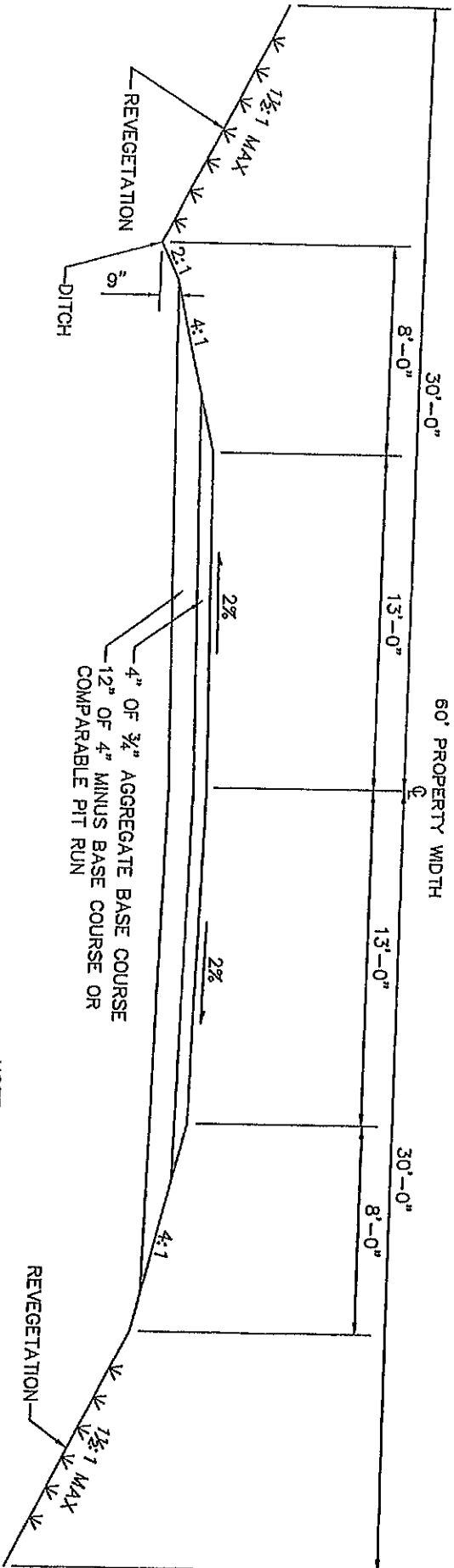
FEBRUARY 2009

PROJECT NO.:

208119

SHEET NO.

PAGE 6



**NOTE:**

FOUR INCHES OF DECOMPOSED GRANITE MAY BE SUBSTITUTED AT OPTION OF THE CAMAS COUNTY COMMISSIONERS OR THE CAMAS COUNTY ROAD AND BRIDGE SUPERVISOR IN LIEU OF 3/4" ROAD MIX.

CUT AND FILL SLOPES IN DIFFICULT TERRAIN MAY REQUIRE SPECIAL CONSIDERATION.

NO DEVIATION FROM THIS WILL BE ALLOWED EXCEPT BY APPROVAL OF THE CAMAS COUNTY COMMISSIONERS OR THE CAMAS COUNTY ROAD AND BRIDGE SUPERVISOR.

APPROVED AND ADOPTED BY THE CAMAS COUNTY COMMISSIONERS.

A NARROWER ROADWAY MAY BE ALLOWED BUT SHALL COMPLY WITH APPENDIX D OF THE UNIFORM FIRE CODE.

**FORSGREN**  
*Associates Inc.*

CAMAS COUNTY

PRIVATE ROAD STANDARD

MARCH 2011

PROJECT NO.:

210015

SHEET NO.

BT 7