

Roadway Ditches

SECTION

4100**Roadway Ditches**

NO.	DATE	TITLE
4101	04-20-10	Typical Cross Section Intercepting Ditch
4102	04-18-17	Typical Cross Section Temporary Intercepting Ditch
4104	04-21-15	Typical Cross Section Earth Excavation Bench Backslope
4107	10-15-13	Typical Cross Section Stepped Backslope
4108	10-15-13	Typical Cross Section Possible Borrow in R.O.W. with Berm
4109	10-15-13	Typical Cross Section Possible Borrow in R.O.W.
4110	10-15-13	Typical Cross Section Excavation in Rock
4111	10-15-13	Excavation in Rock Using Pre-Splitting Method

SECTION

4200**Channel Change Ditches**

NO.	DATE	TITLE
4201	09-07-73	Typical Cross Section Type 1 Channel
4202	09-07-73	Typical Cross Section Type 2 Channel
4203	12-08-95	Typical Details for Outlet Ditch Through Foreslope Berm
4204	10-03-00	Details of Typical Special Ditch

SECTION
4300

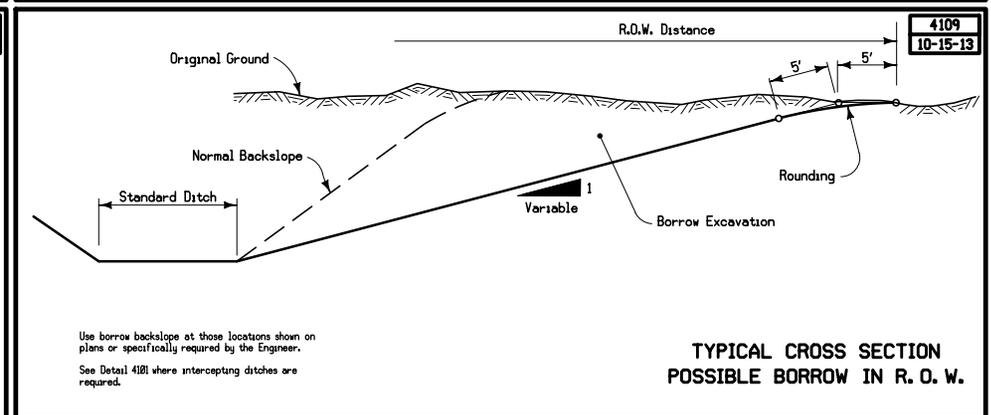
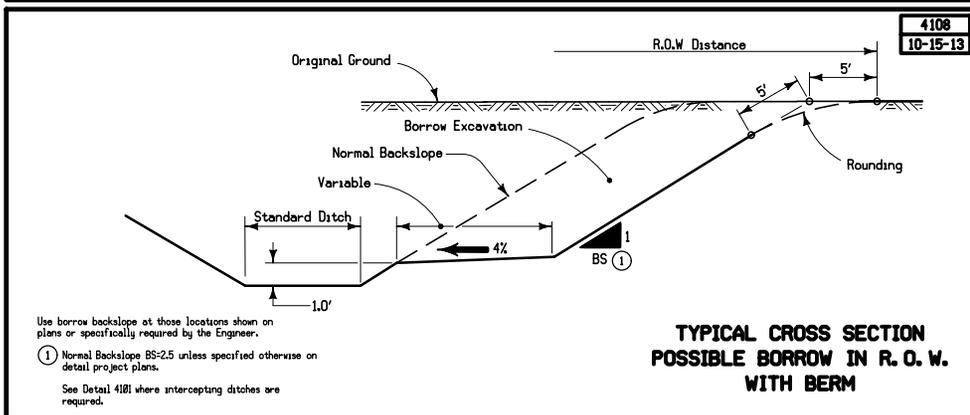
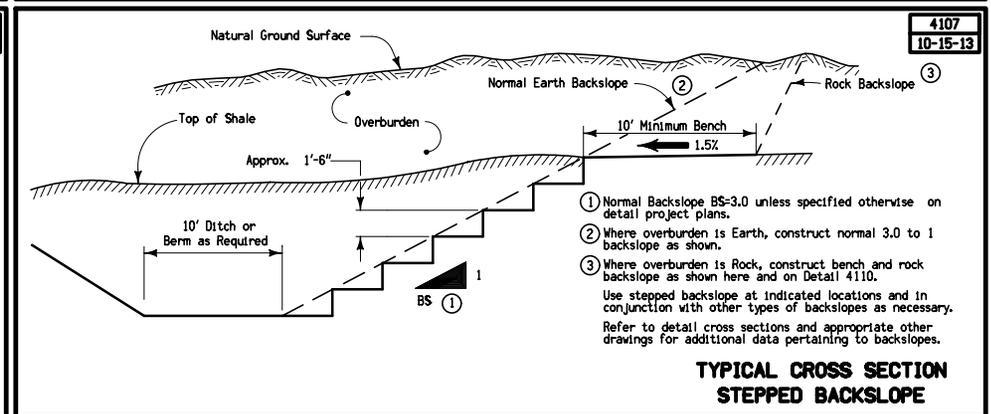
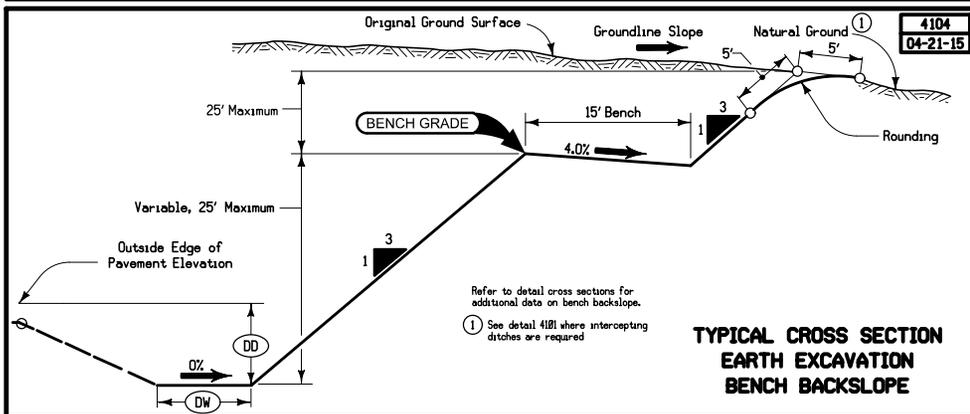
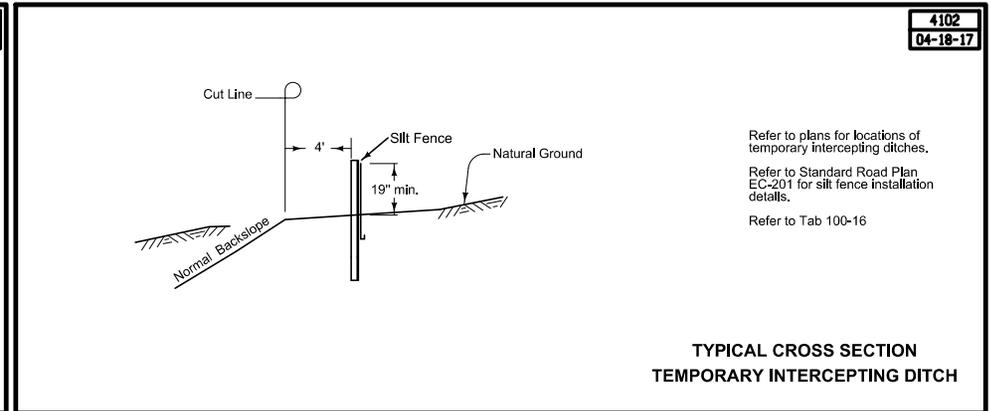
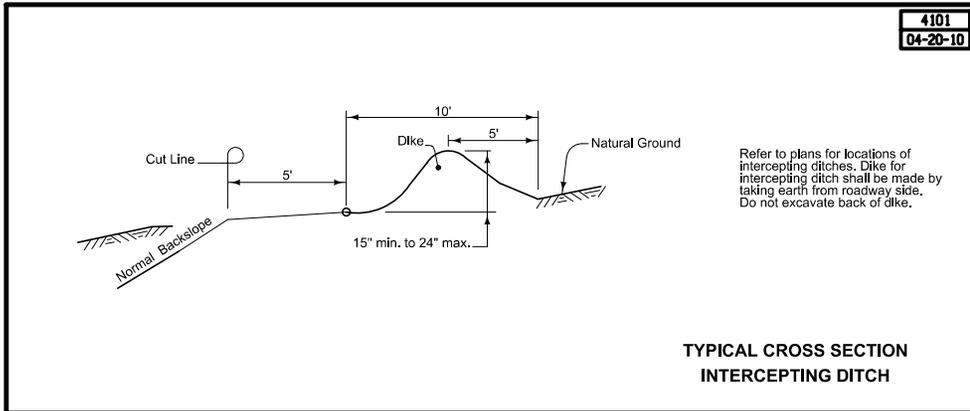
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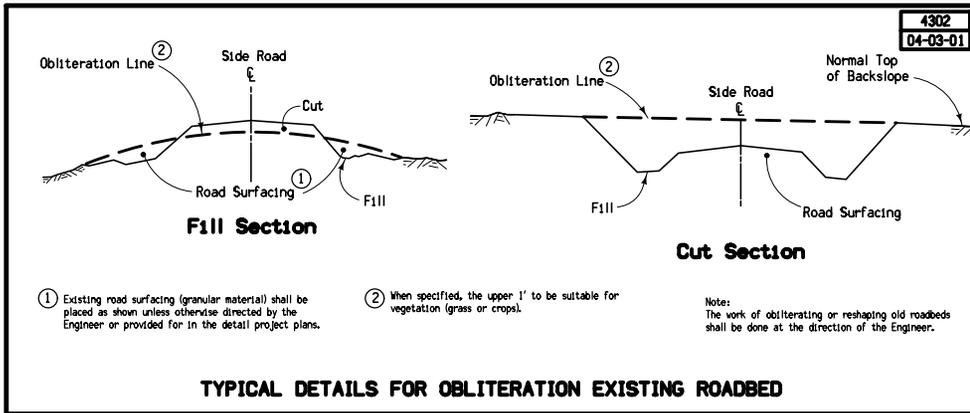
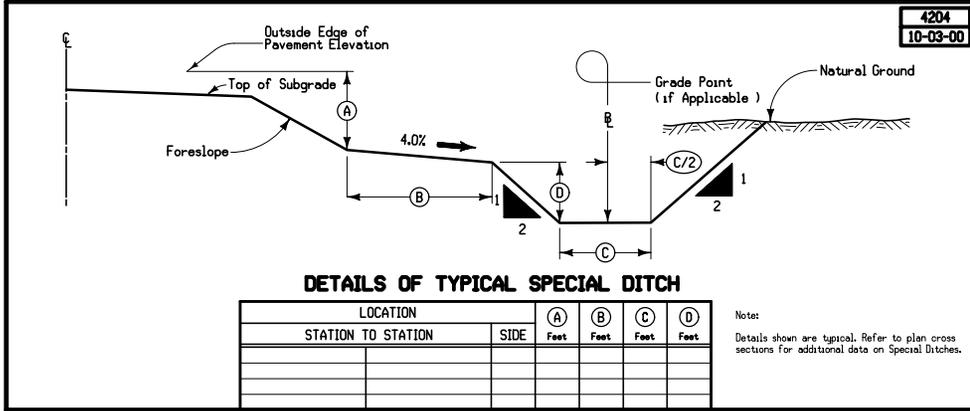
NO.	DATE	TITLE
4301	--	VOID
4302	04-03-01	Typical Details for Obliteration Existing Roadbed
4309	10-20-09	Immediate Placement of Embankment at Culvert Extension
4311	10-18-16	Barnroof Foreslope at Drainage Structure
4312	04-18-17	Barnroof Foreslope at Skewed Drainage Structure
4315	04-15-08	Culvert Abandonment with Flowable Mortar (Rectangular structures less 8' in either height or width or circular structures less than 10' Dia.)
4316	04-15-08	Culvert Abandonment with Flowable Mortar (Rectangular structures at least 8' in both height and width or circular structures 10' Dia. or larger)
4317	10-16-12	Fill for Culverts used in Bridge Replacements
4318	10-15-13	Fill for Culvert used in Bridge Replacements with Restricted Height
4320	10-18-11	Foreslope Benching for Slide Repair

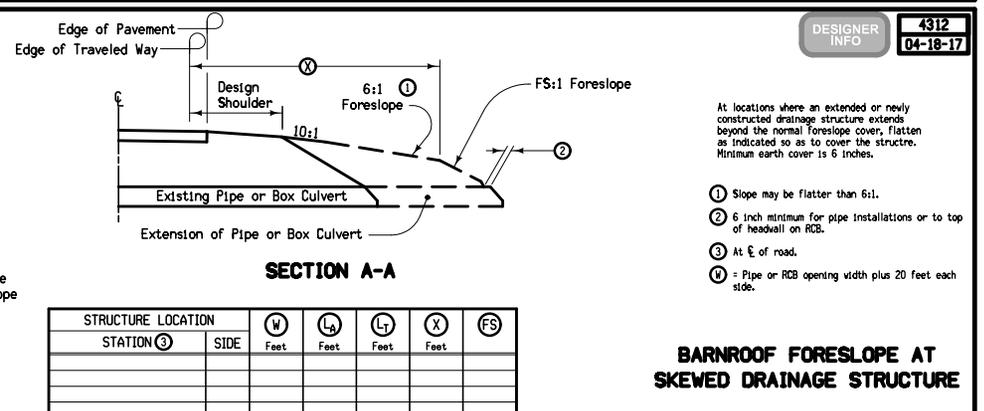
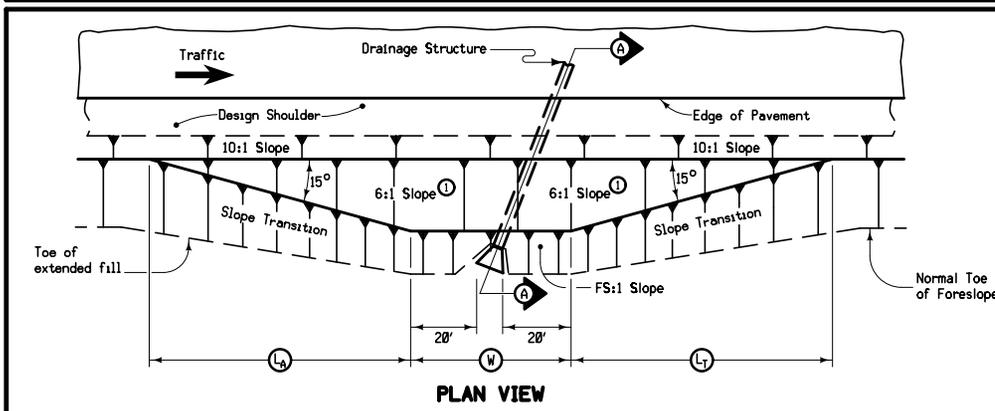
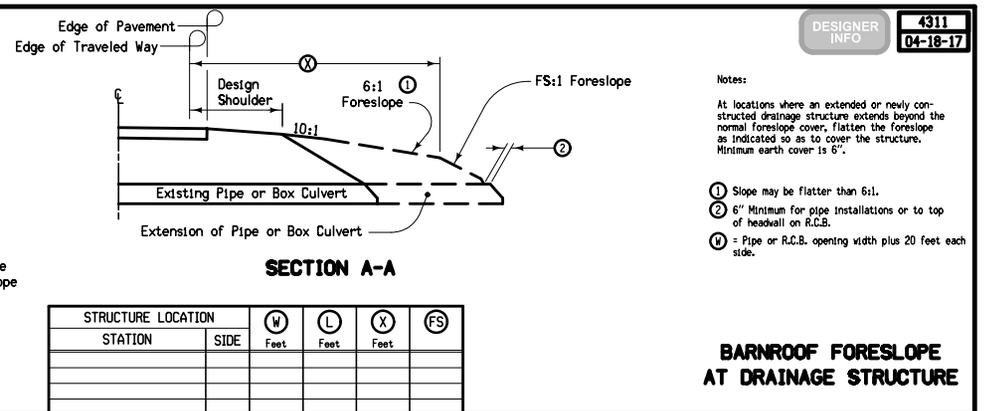
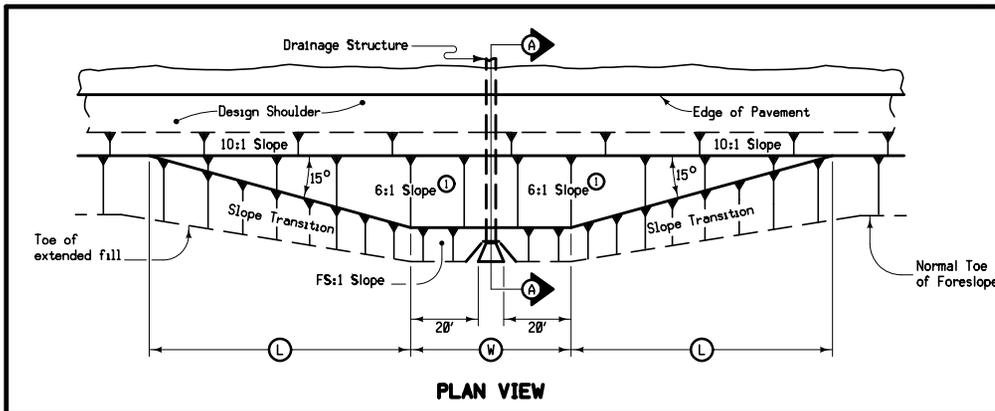
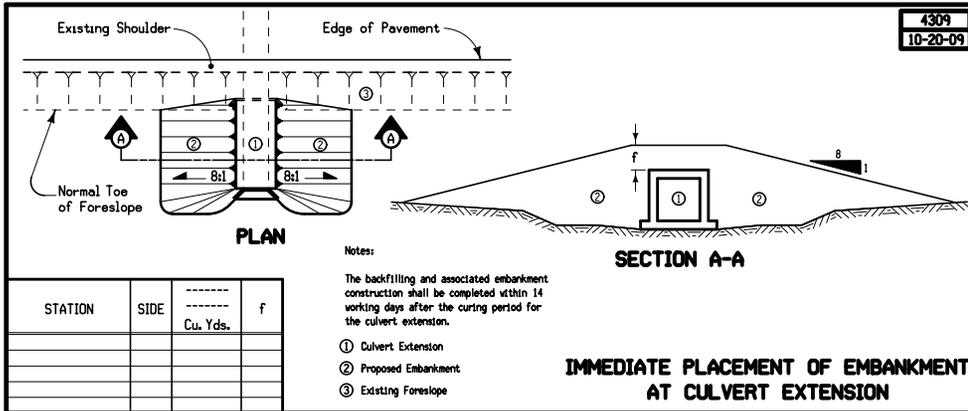
SECTION
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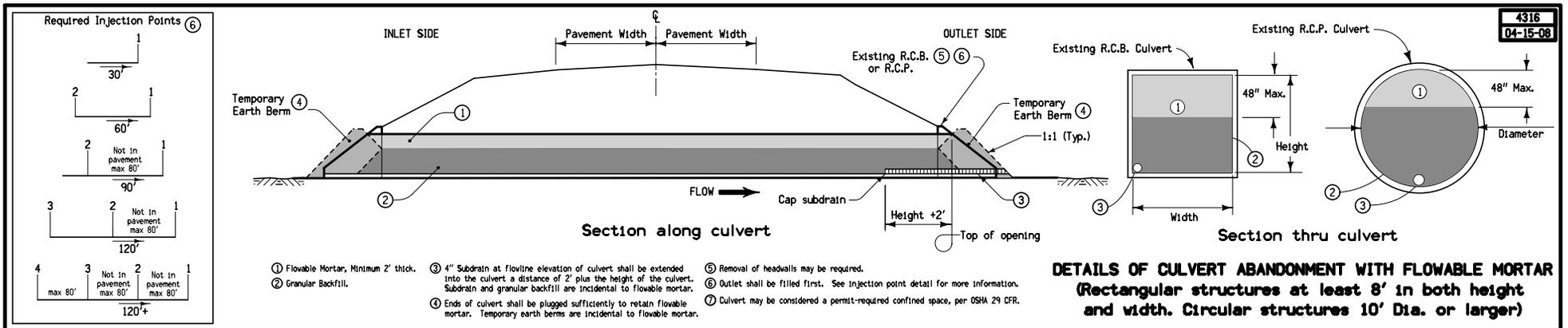
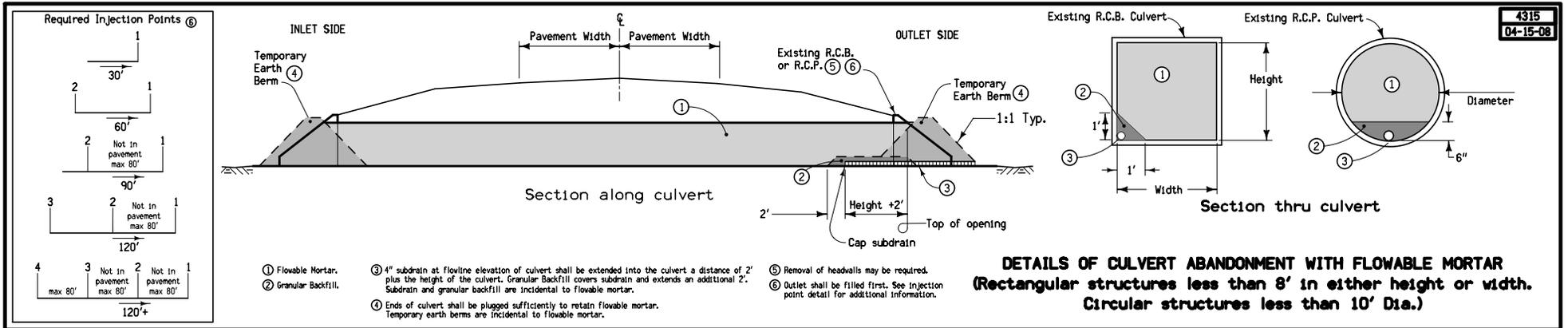
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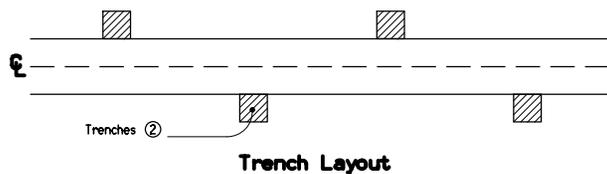
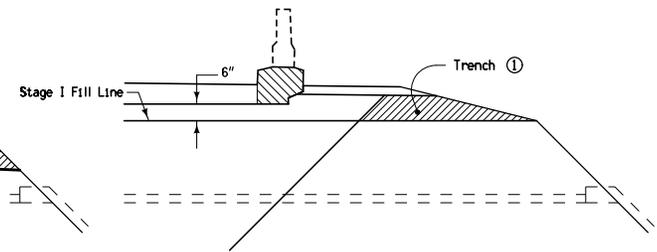
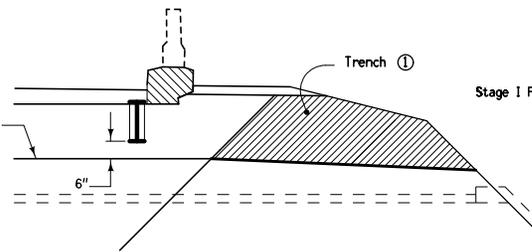
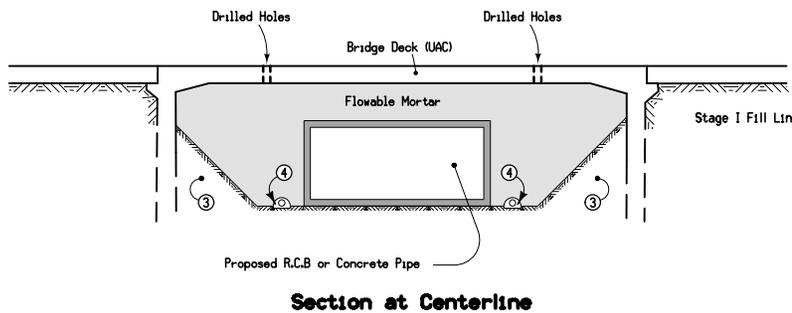
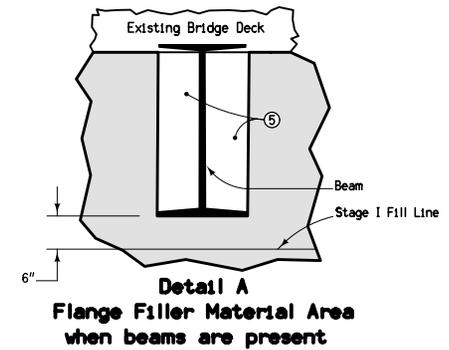
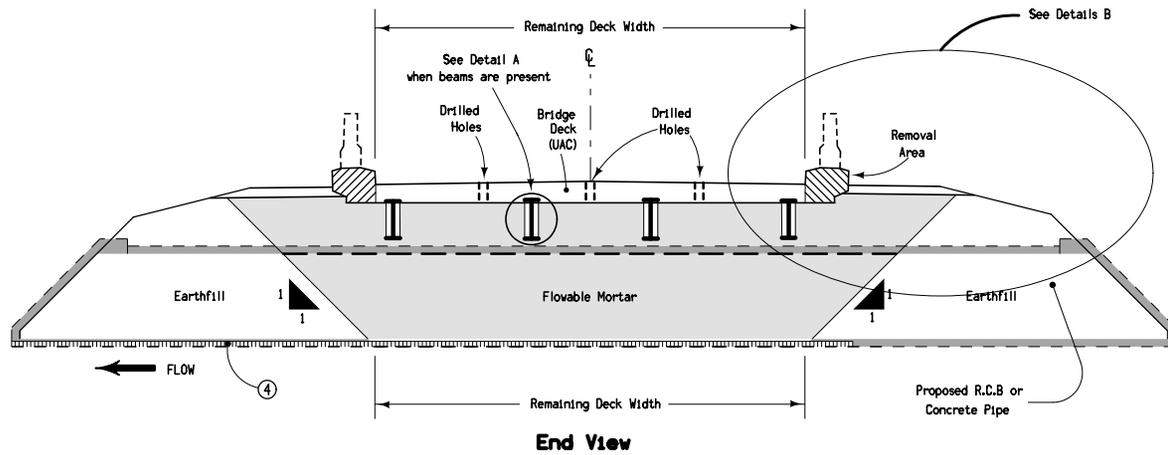
NO.	DATE	TITLE











- ① Cut trenches in the soil plug to provide drainage for the flowable mortar. Backfill the trenches with open graded crushed stone, gravel, or recycled PCC to allow water to drain. Backfill material is incidental to flowable mortar.
- ② Place trenches at 20' spacing with a minimum of two trenches on each side of the roadway.
- ③ Existing embankment.
- ④ 4" Sub-drain with 4" cover of porous backfill at flowline elevation of culvert.
- ⑤ Place Flange Filler Material to fill pocket area between flanges to prevent flowable mortar from building up. Flange Filler Material is incidental to flowable mortar.

**FILL FOR CULVERT USED
IN BRIDGE REPLACEMENTS
WITH RESTRICTED HEIGHT**

