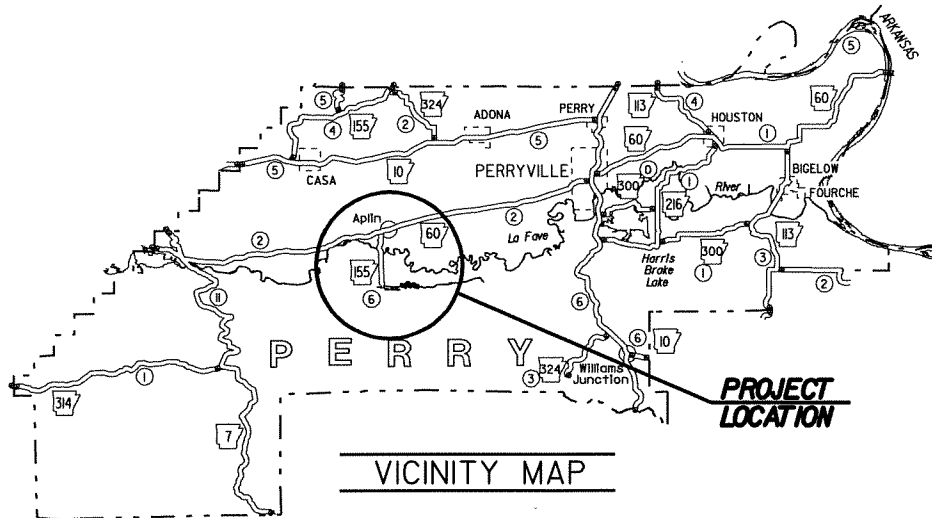
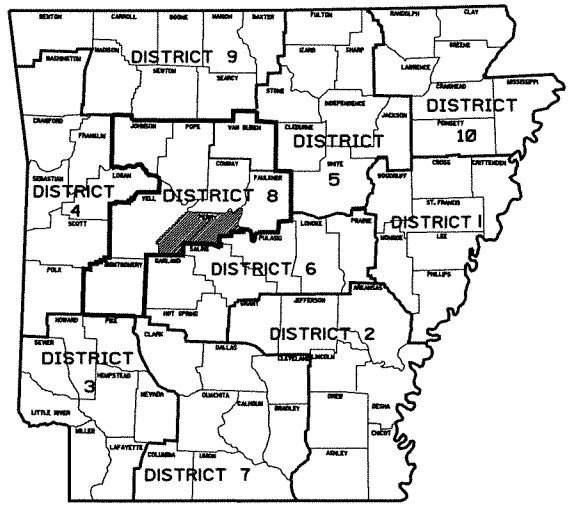


ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
CONSTRUCTION PLANS FOR PROPOSED COUNTY ROAD

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		FA5308	1	63
				④ HWY. 155 - EAST (PHASE 2) (S)				



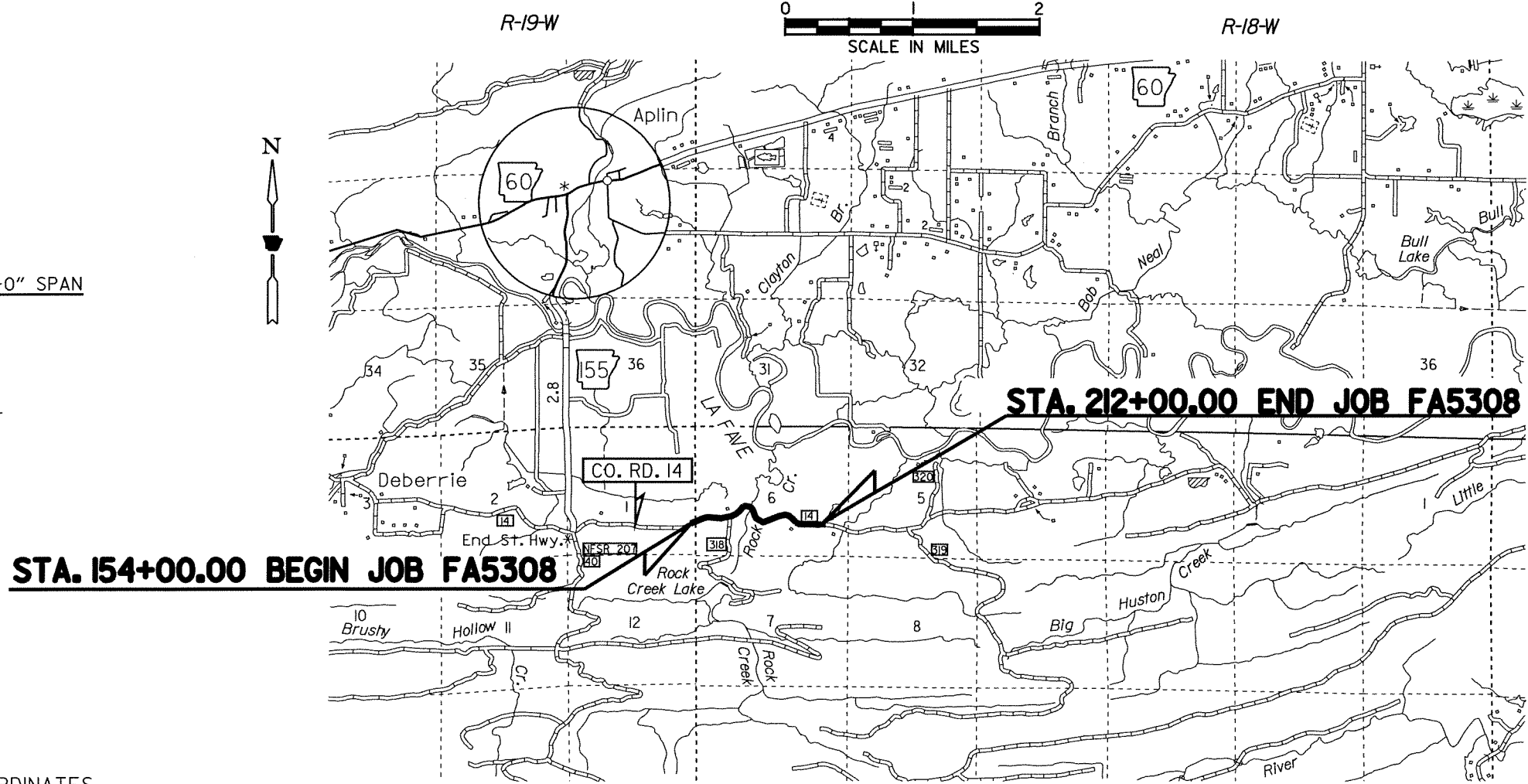
HWY. 155 - EAST (PHASE 2) (S)
CO. RD. NO. 14
PERRY COUNTY
JOB FA5308
FED. AID PROJ. STPR-0053(27)



STRUCTURES OVER 20'-0" SPAN

STA. 175+18 CONSTRUCT
DBL. 10' X 8' X 56'
R.C. BOX CULVERT
(15° LT. FWD. SKEW)
SPAN = 21.40'

STA. 177+33 CONSTRUCT
DBL. 10' X 8' X 56'
R.C. BOX CULVERT
SPAN = 20.67'



DESIGN TRAFFIC DATA
DESIGN YEAR..... 2033
2013 ADT..... 50
2033 ADT..... 70
2033 DHV..... 11
DIRECTIONAL DISTRIBUTION... 0.60
TRUCKS..... 3%
DESIGN SPEED..... 30 MPH

PROJECT COORDINATES			
	BEGIN	MID-POINT	END
LAT.	N34°56'09"	N34°56'08"	N34°56'05"
LONG.	W92°58'01"	W92°57'32"	W92°56'59"

LENGTH OF PROJECT CALCULATED ALONG CL CONSTRUCTION					
GROSS LENGTH OF PROJECT	5800.00	FEET OR	1.098	MILES	
NET " " ROADWAY	5757.93	" "	1.090	"	
NET " " BRIDGE	42.07	" "	0.008	"	
NET " " PROJECT	5800.00	" "	1.098	"	

APPROVED

3/5/13
DEPUTY DIRECTOR
AND CHIEF ENGINEER

INDEX OF SHEETS

SHEET NO.	TITLE	DRWG. NO.	DATE
1.-----	TITLE SHEET		
2.-----	INDEX OF SHEETS, GOVERNING SPECIFICATIONS AND GENERAL NOTES		
3.-----	TYPICAL SECTION OF IMPROVEMENT AND SPECIAL DETAILS		
4-11.-----	SPECIAL DETAILS		
12-14.-----	SURVEY CONTROL DETAILS		
15-19.-----	TEMPORARY EROSION CONTROL PLANS		
20-21.-----	QUANTITY SHEETS		
22.-----	SUMMARY OF QUANTITIES AND REVISIONS		
23-27.-----	PLAN AND PROFILE SHEETS		
28.-----	FLARED END SECTION	FES-1	10-18-96
29.-----	FLARED END SECTION	FES-2	10-18-96
30.-----	PRECAST CONCRETE BOX CULVERTS	PBC-1	12-15-11
31.-----	CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING	PCC-1	12-15-11
32.-----	METAL PIPE CULVERT FILL HEIGHTS & BEDDING	PCM-1	12-15-11
33.-----	PLASTIC PIPE CULVERT (HIGH DENSITY POLYETHYLENE)	PCP-1	12-15-11
34.-----	PLASTIC PIPE CULVERT (PVC F949)	PCP-2	12-15-11
35.-----	EXCAVATION PAY LIMITS AND SOLID SODDING FOR BOX CULVERTS	RCB-2	11-20-03
36.-----	TABLES AND METHOD OF SUPERELEVATION FOR TWO-WAY TRAFFIC	SE-2	10-18-96
37.-----	STANDARD HIGHWAY SIGNS AND SUPPORT ASSEMBLIES	SHS-1	4-17-08
38.-----	U-CHANNEL POST ASSEMBLIES	SHS-2	10- 9-03
39.-----	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-1	12-15-11
40.-----	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-2	3-11-10
41.-----	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-3	10-15-09
42.-----	TEMPORARY EROSION CONTROL DEVICES	TEC-1	12-15-11
43.-----	TEMPORARY EROSION CONTROL DEVICES	TEC-2	6- 2-94
44.-----	TEMPORARY EROSION CONTROL DEVICES	TEC-3	11- 3-94
45.-----	WIRE FENCE TYPE C AND D	WF-4	8-22-02
46-63.-----	CROSS SECTIONS		

NOTE: CROSS SECTIONS NOT NORMALLY INCLUDED IN PLANS SOLD TO PROSPECTIVE BIDDERS, BUT MAY BE HAD UPON REQUEST.

GENERAL NOTES

GRADE LINE DENOTES FINISHED GRADE WHERE SHOWN ON PLANS.

UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE MOVED BY THE OWNERS.

ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.

ALL TREES THAT DO NOT DIRECTLY INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE SPARED AS DIRECTED BY THE ENGINEER. CARE AND DISCRETION SHALL BE USED TO INSURE THAT ALL TREES NOT TO BE REMOVED SHALL BE HARMED AS LITTLE AS POSSIBLE DURING THE CONSTRUCTION OPERATIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FENCE TO CONTROL LIVESTOCK IN AREAS WHERE PASTURES ARE SEVERED. WIRE FENCE MAY BE CONSTRUCTED INITIALLY, OR IN LIEU THEREOF, THE CONTRACTOR AT HIS OWN EXPENSE, MAY ELECT TO PROVIDE TEMPORARY FENCING SUITABLE TO CONTAIN LIVESTOCK.

SUPERELEVATION SHALL BE COMPUTED IN ACCORDANCE WITH STD. DRWG. SE-2 USING 30 M.P.H. DESIGN VALUES AND REVOLVE ABOUT THE INNER TRAVEL LANE EDGE UNLESS OTHERWISE SHOWN.

ALL SALVAGE PIPE CULVERTS SHALL BE STORED ON THE RIGHT-OF-WAY AND REMAIN THE PROPERTY OF PERRY COUNTY.

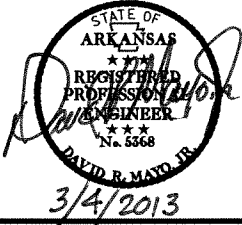
THIS PROJECT IS PERMITTED UNDER A NATIONWIDE 14 SECTION 404 PERMIT. REFER TO SECTION 110 OF THE STANDARD SPECIFICATIONS, EDITION OF 2003, FOR PERMIT REQUIREMENTS.

THE ROAD WILL REMAIN OPEN TO THRU TRAFFIC DURING CONSTRUCTION OF THE NEW BOX CULVERTS.

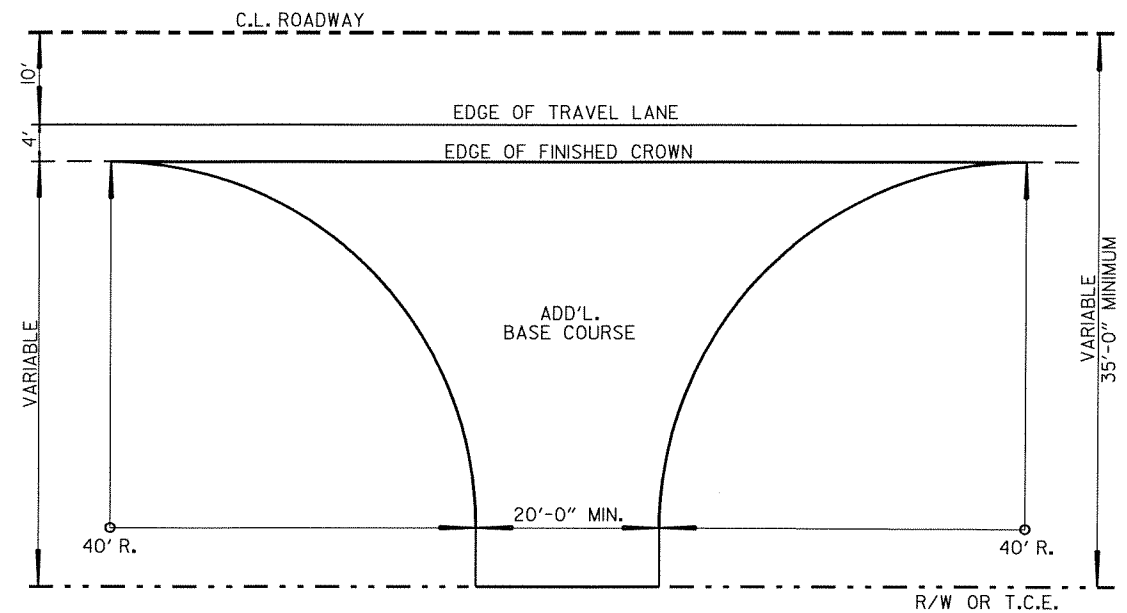
GOVERNING SPECIFICATIONS

THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS FOR THIS PROJECT SUPPLEMENT THE STANDARD SPECIFICATIONS, EDITION OF 2003. IN CASE OF CONFLICT, THE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS SHALL GOVERN.

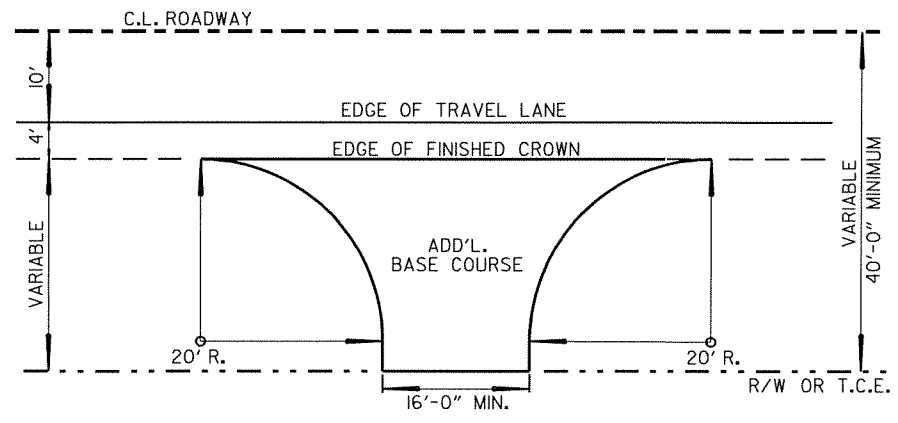
NUMBER	TITLE
ERRATA_____	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273____	REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273____	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
FHWA-1273____	SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
FHWA-1273____	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
FHWA-1273____	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
FHWA-1273____	SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
FHWA-1273____	SUPPLEMENT - WAGE RATE DETERMINATION
100-2_____	MANUAL FOR ASSESSING SAFETY HARDWARE (MASH)
102-1_____	BIDDING REQUIREMENTS AND CONDITIONS
103-1_____	DETERMINATION OF DBE PARTICIPATION
105-1_____	CONSTRUCTION CONTROL MARKINGS
105-2_____	EQUIPMENT AND MATERIAL STORAGE ON BRIDGE STRUCTURES
105-3_____	CONTROL OF WORK
107-1_____	WORKER VISIBILITY
108-1_____	LIQUIDATED DAMAGES
110-1_____	PROTECTION OF WATER QUALITY AND WETLANDS
303-1_____	AGGREGATE BASE COURSE
600-1_____	WATER FOR VEGETATION
603-1_____	MAINTENANCE OF TRAFFIC
604-1_____	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
604-2_____	INSPECTION OF TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
606-1_____	PIPE CULVERTS FOR SIDE DRAINS
606-2_____	PIPE CULVERTS
723-1_____	GENERAL REQUIREMENTS FOR SIGNS
804-1_____	INSTALLATION OF DOWEL BARS AND TIE BARS
JOB FA5308 __	BROADBAND INTERNET SERVICE FOR FIELD OFFICE
JOB FA5308 __	GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB FA5308 __	INTERNET BIDDING
JOB FA5308 __	LRFD PRECAST REINFORCED CONCRETE BOX CULVERTS
JOB FA5308 __	NESTING SITES OF MIGRATORY BIRDS
JOB FA5308 __	PLASTIC PIPE
JOB FA5308 __	SPECIAL SEEDING REQUIREMENTS
JOB FA5308 __	STORM WATER POLLUTION PREVENTION PLAN



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				6	ARK.			
				JOB NO.	FA5308	3	63	
4 TYP. SEC. OF IMPROVEMENT & SPECIAL DTLS.								

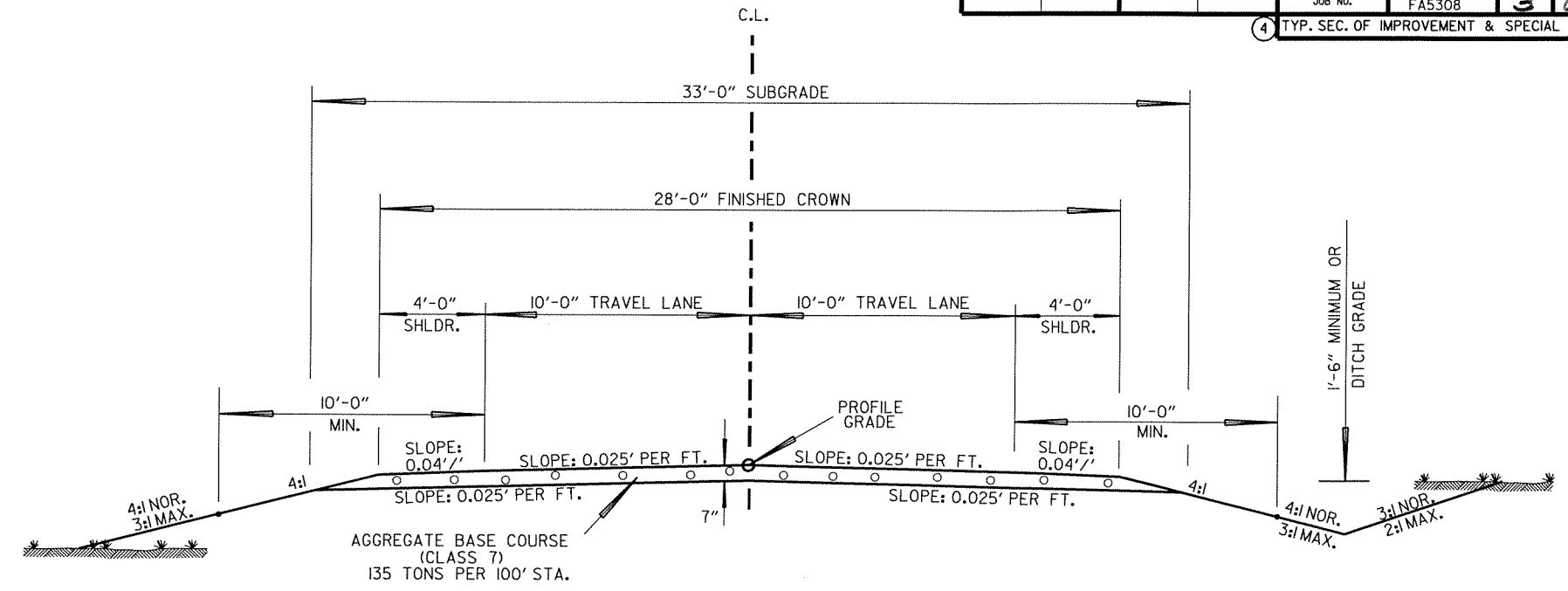


DETAIL OF COUNTY ROAD TURNOUT



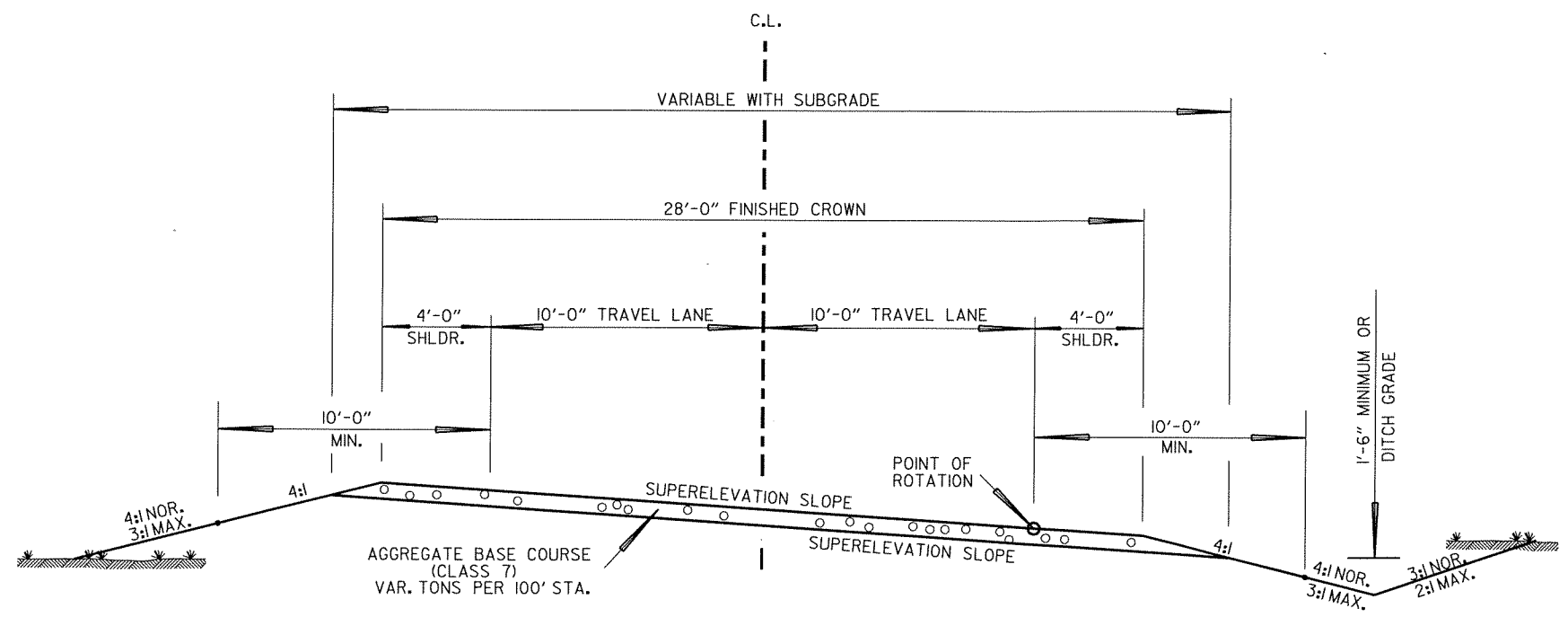
DETAIL OF PRIVATE ENTRANCES

NOTE: THE ABOVE DETAILS MAY BE MODIFIED TO MEET LOCAL CONDITIONS AS DIRECTED BY THE ENGINEER.



TYPICAL SECTION OF IMPROVEMENT

NOTE: THE AGGREGATE BASE COURSE IS TO BE PLACED AND SPREAD TO CONFORM TO THE TYPICAL SECTION. THE MATERIAL IN THE BASE COURSE SHALL BE UNIFORMLY COMPACTED, STABLE AND FREE OF SEGREGATED AREAS. DENSITY REQUIREMENTS ARE NOT A PART OF THIS CONTRACT. REFER TO CROSS SECTIONS FOR DEVIATION FROM THE NORMAL SLOPES. NO CHANGES SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.



SUPERELEVATED SECTION OF IMPROVEMENT

NOTE: THE AGGREGATE BASE COURSE IS TO BE PLACED AND SPREAD TO CONFORM TO THE TYPICAL SECTION. THE MATERIAL IN THE BASE COURSE SHALL BE UNIFORMLY COMPACTED, STABLE AND FREE OF SEGREGATED AREAS. DENSITY REQUIREMENTS ARE NOT A PART OF THIS CONTRACT. REFER TO CROSS SECTIONS FOR DEVIATION FROM THE NORMAL SLOPES. NO CHANGES SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.

TYPICAL SECTION OF IMPROVEMENT

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
DAVID R. MATO JR.
No. 5368
3/4/2013

MID-SECTION

R.C. BOX SECTION		DESIGN FILL DEPTH (FT.)		CLEAR SPAN (FT.)
------------------	--	-------------------------	--	------------------

MID-SECTION

R.C. BOX SECTION		DESIGN FILL DEPTH (FT.)		CLEAR SPAN (FT.)
------------------	--	-------------------------	--	------------------

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OUTLET SLOPE SECTION(S)

R.C. BOX SECTION		DESIGN FILL DEPTH (FT.)		CLEAR SPAN (FT.)		CLEAR HEIGHT
------------------	--	-------------------------	--	------------------	--	--------------

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2:1 Slope	20'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
3:1 Slope	30'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"
4:1 Slope	40'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"

Note: For fill depths 5' and under, use Mid-Section full length of box culvert.

* LL = Skewed End Section Length - See "Skewed End Section Details" Length LL varies with skew angle, overall box width and fill depth and may eliminate the need for some slope section lengths as shown.

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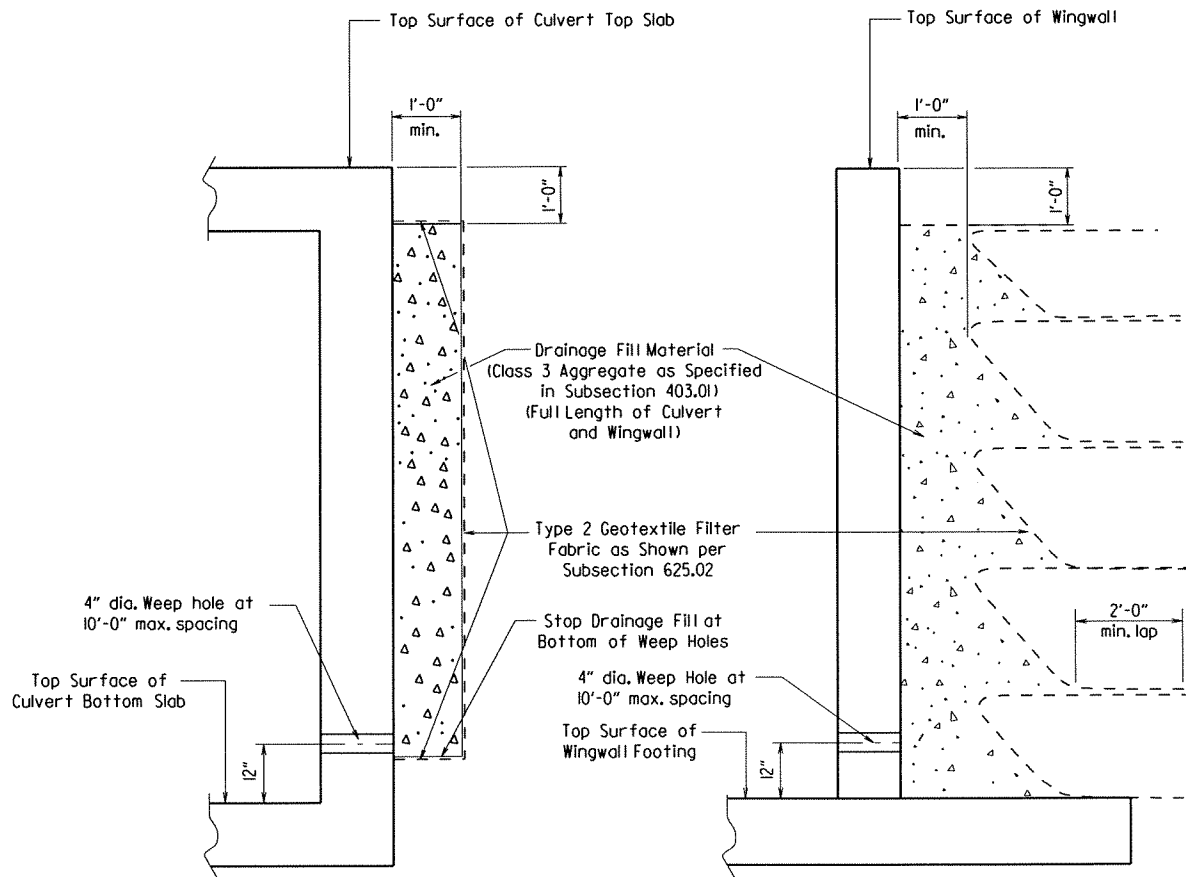
SPECIAL DETAILS



Slope Section Length @ 2:1 Slope	A=12'-0"	B=6'-0"	C=6'-0"	D=6'-0"	E=6'-0"	F=6'-0"	G=6'-0"	Mid-Section Length - Varies
Slope Section Length @ 3:1 Slope	A=22'-0"	B=11'-0"	C=11'-0"	D=11'-0"	E=11'-0"	F=11'-0"	G=11'-0"	Mid-Section Length - Varies
Slope Section Length @ 4:1 Slope	A=32'-0"	B=16'-0"	C=16'-0"	D=16'-0"	E=16'-0"	F=16'-0"	G=16'-0"	Mid-Section Length - Varies

LONGITUDINAL SECTION LENGTH SCHEDULE FOR VARYING FILL DEPTHS OVER 5'

Lengths for Non-Skewed Boxes

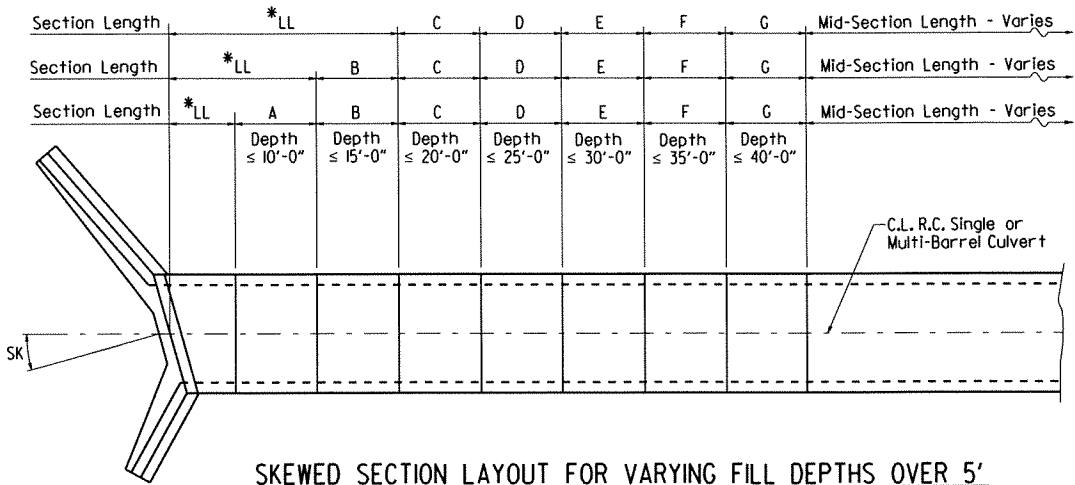


VERTICAL FABRIC ALTERNATE
(Shown for Culvert, Similar for Wingwall)

WRAPPED FABRIC ALTERNATE
(Shown for Wingwall, Similar for Culvert)

For Details of Excavation and Pay Limits, see Standard Drawing RCB-2.

WINGWALL & CULVERT DRAINAGE DETAIL



SKewed SECTION LAYOUT FOR VARYING FILL DEPTHS OVER 5'

GENERAL NOTES:

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction (2003 edition) with applicable supplemental specifications and special provisions. Section and Subsection refer to the Standard Construction Specifications unless otherwise noted in the Plans.

DESIGN SPECIFICATIONS: AASHTO LRFD Bridge Design Specifications, Fifth Edition (2010) with 2010 interim revisions.

LIVE LOADING: HL-93

All concrete shall be Class S with a minimum 28-day compressive strength of 3,500 psi and shall be poured in the dry. All exposed corners to have 3/4" chamfers.

Reinforcing Steel shall be AASHTO M 31 or M 53, Grade 60.

Reinforcing Steel Tolerances: the tolerances for reinforcing steel shall meet those listed in 'Manual of Standard Practice' published by Concrete Reinforcing Steel Institute (CRSI) except that the tolerance for truss bars such as Figure 3 on page 7-4 of the CRSI Manual shall be minus zero to plus 1/2 inch.

Excavation and backfilling shall be in accordance with the requirements of Section 801.

Membrane Waterproofing shall conform to the requirements of Section 815 of the Standard Specifications. Membrane Waterproofing shall be Type C and as directed by the Engineer applied to all construction joints in the top slab and the sidewalls of R.C. Box culverts and to the construction joint between wingwalls and R.C. Box culvert walls.

Weep Holes in box culvert walls shall have a maximum horizontal spacing of 10'-0" and shall be spaced to clear all reinforcing steel. The drain opening shall be 4" diameter and shall be placed 12" above the top of the bottom slab.

Weep Holes in wingwalls shall have a maximum horizontal spacing of 10'-0" and shall be spaced to clear all reinforcing steel. There shall be a minimum of two (2) weep holes in each wingwall. The drain opening shall be 4" diameter and shall be placed 12" above the top of the wingwall footing.

Construction Joints between footings and walls shall be made only where shown on the Plans. The maximum length of culvert for which a continuous pour will be permitted is 75 ft. For longer culvert construction, joints shall be provided in slabs and walls at intervals not greater than 50 ft. Joints shall be normal to the centerline of barrel and shall be keyed. Longitudinal reinforcing shall be continuous through joints unless shown otherwise.

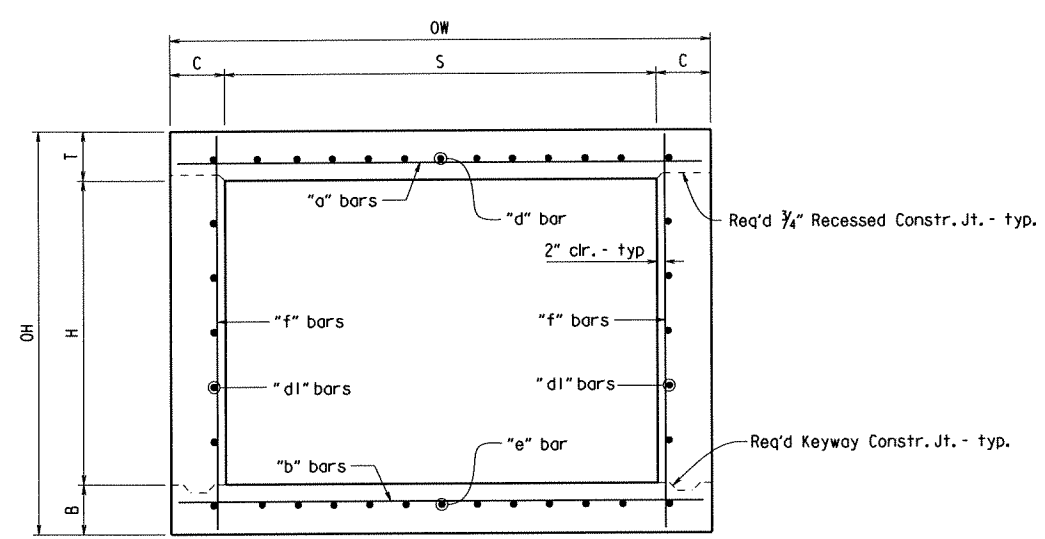
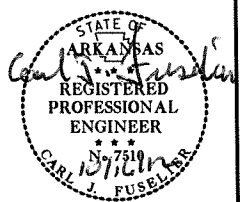
Membrane Waterproofing, Weep Holes, Geotextile Filter Fabric, and Drainage Fill Material will not be paid for directly but shall be considered subsidiary to Class S Concrete.

When precast reinforced concrete box culverts are substituted for cast in place box culverts, they shall be manufactured according to ASTM C 1577 and meet the requirements of Special Provision "LRFD Precast Reinforced Concrete Box Culverts".

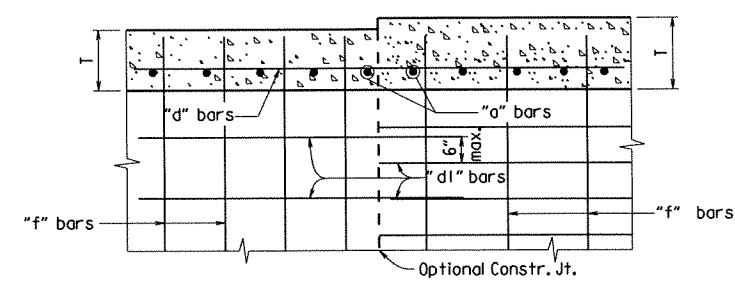


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		FA5308	9	63

1 SPECIAL DETAILS

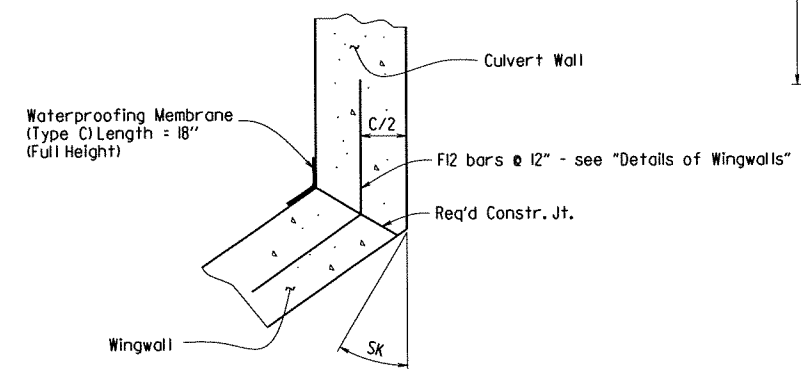
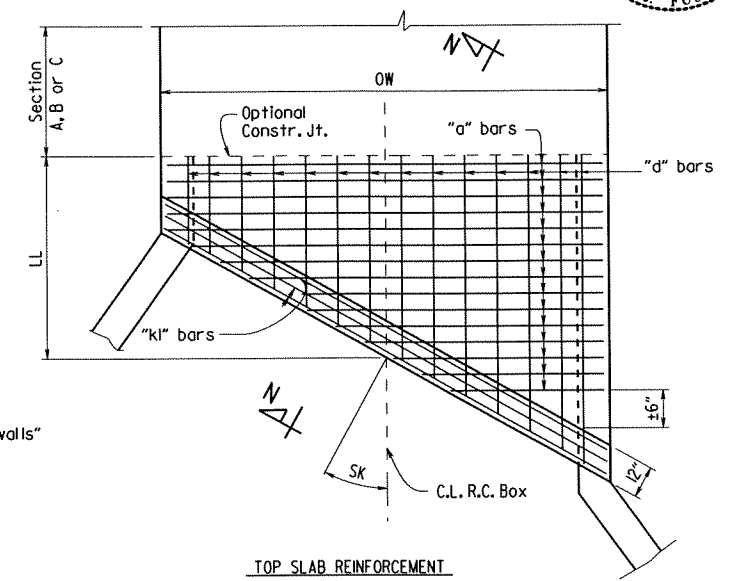


TYPICAL SECTION M-M

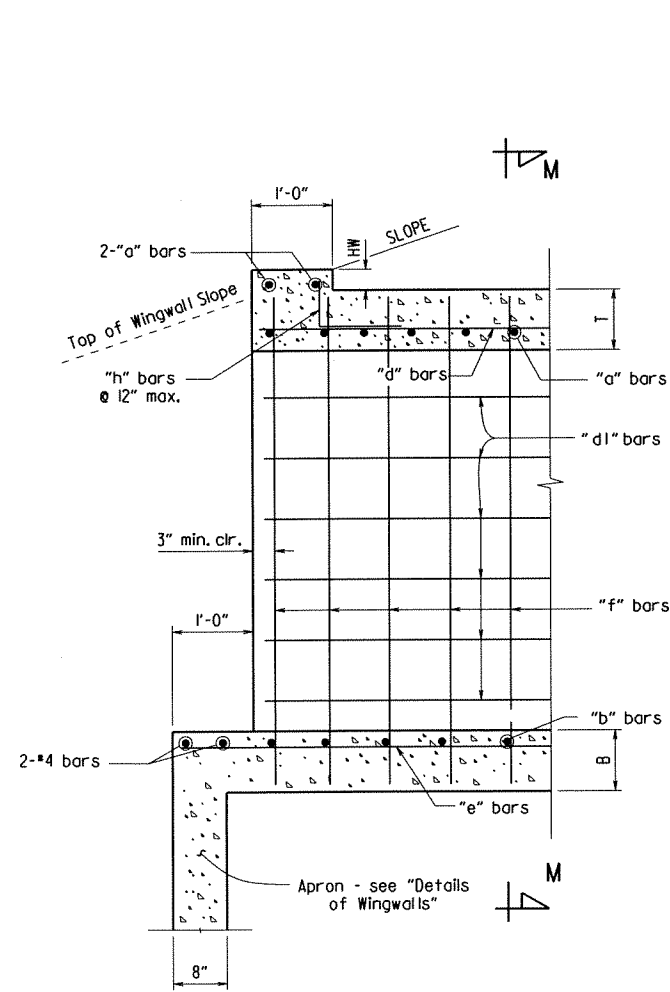


LONGITUDINAL LAP DETAIL AT CHANGE IN SECTIONS

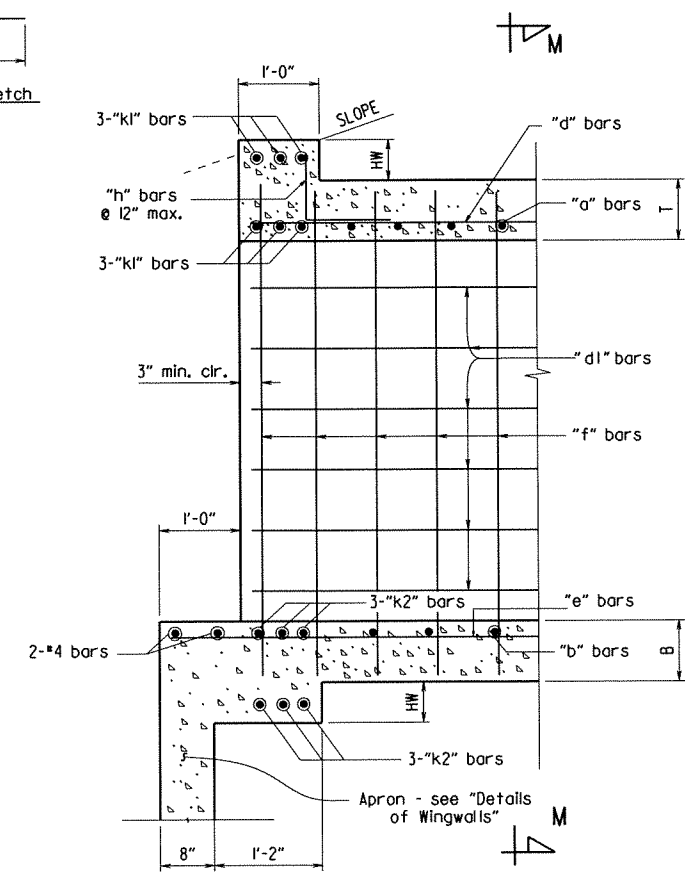
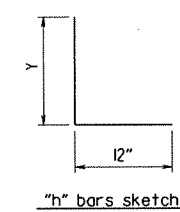
TOP SLAB SHOWN, BOTTOM SLAB SIMILAR



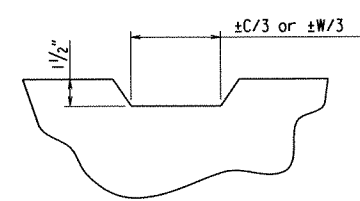
WINGWALL ATTACHMENT
See "Details of Wingwalls" for additional information and wingwall details.



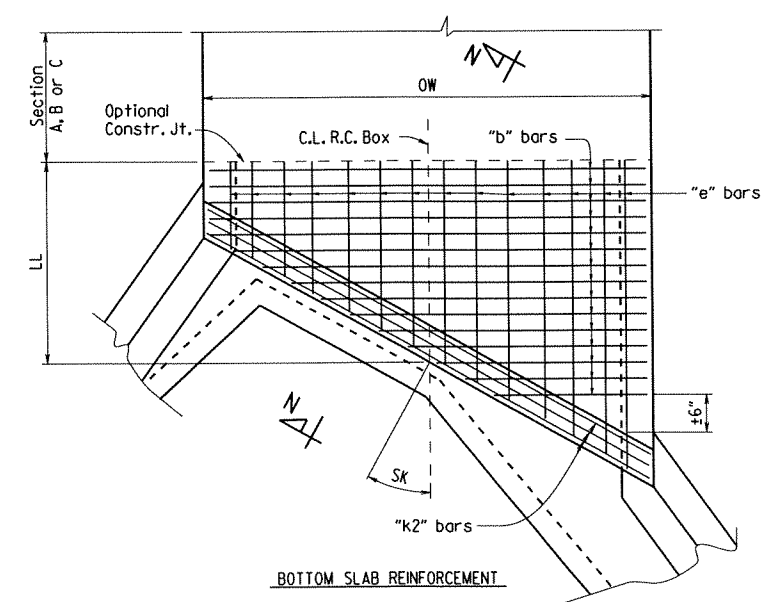
PART LONGITUDINAL SECTION
(Non-Skewed Ends)



PART LONGITUDINAL SECTION N-N
(Skewed Ends)



TYPICAL KEYWAY DETAIL



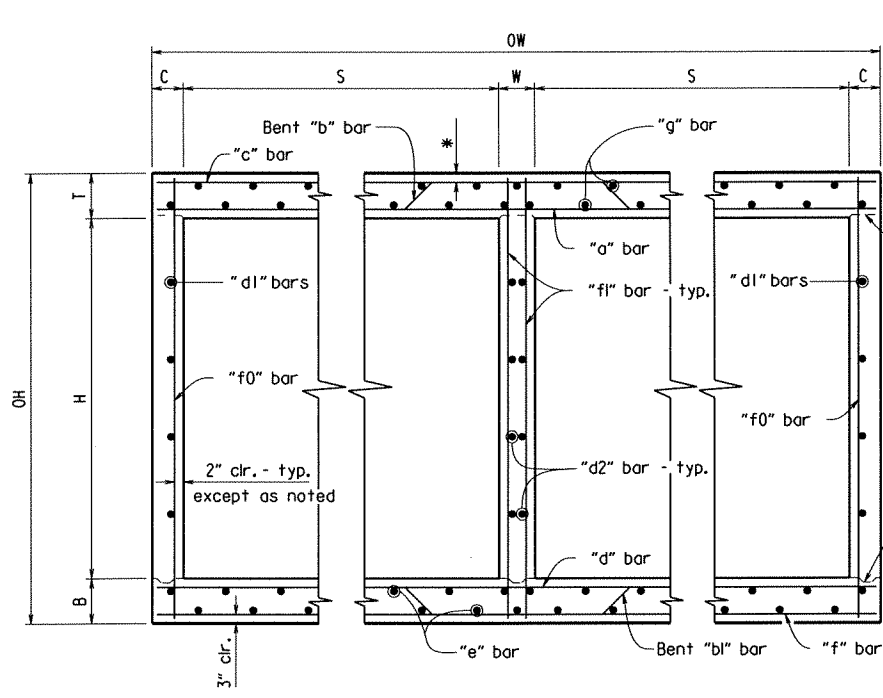
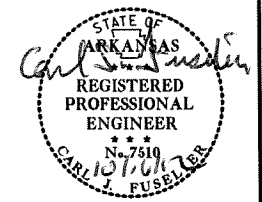
SKewed END SECTION DETAILS

SHEET 2 OF 4
GENERAL DETAILS OF R.C. BOX CULVERT
DETAILS OF SINGLE BARREL
R.C. BOX CULVERT
SPECIAL DETAILS

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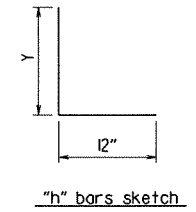
DATE REVISED	DATE FILMED	REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		FA5308	10	63



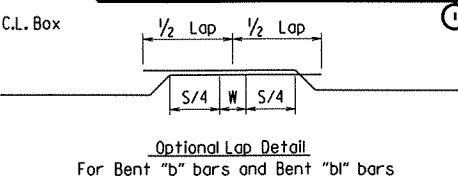
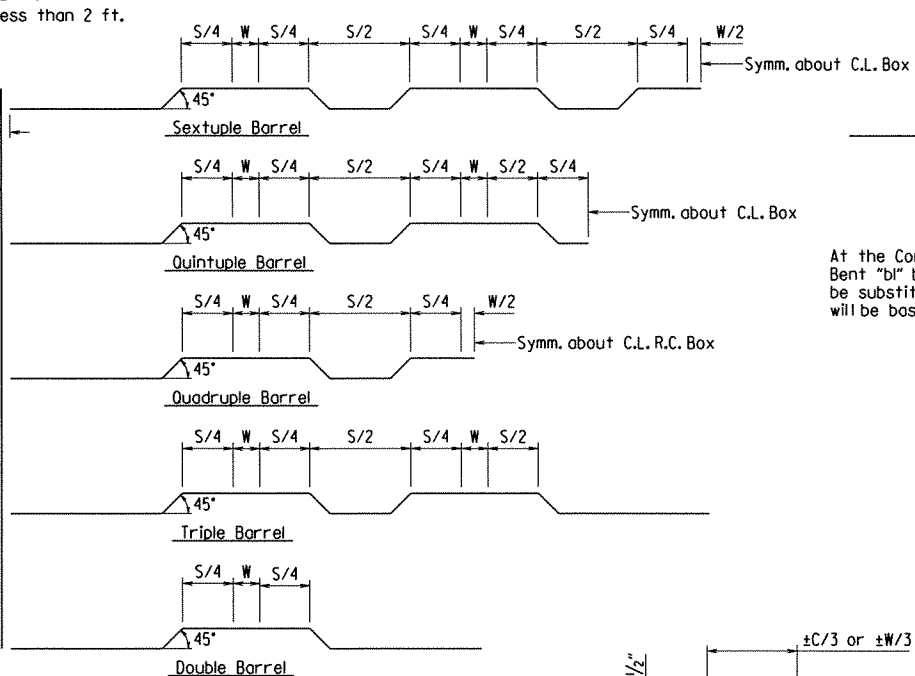
TYPICAL SECTION M-M

Top Slab
Straight "c" bars shall alternate with Bent "b" bars in top.
Straight "a" bars shall alternate with Bent "b" bars in bottom.

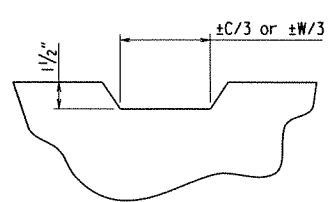
Bottom Slab
Straight "d" bars shall alternate with Bent "b" bars in top.
Straight "f" bars shall alternate with Bent "b" bars in bottom.



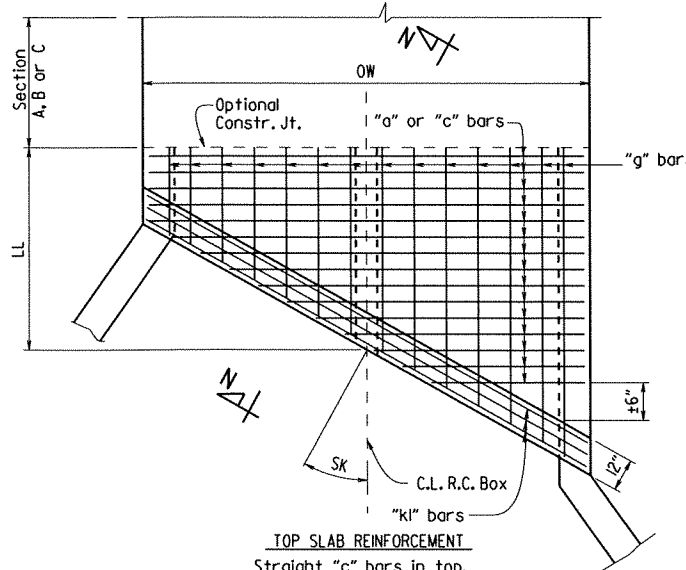
Bent "b" bars or Bent "bl" bars sketch



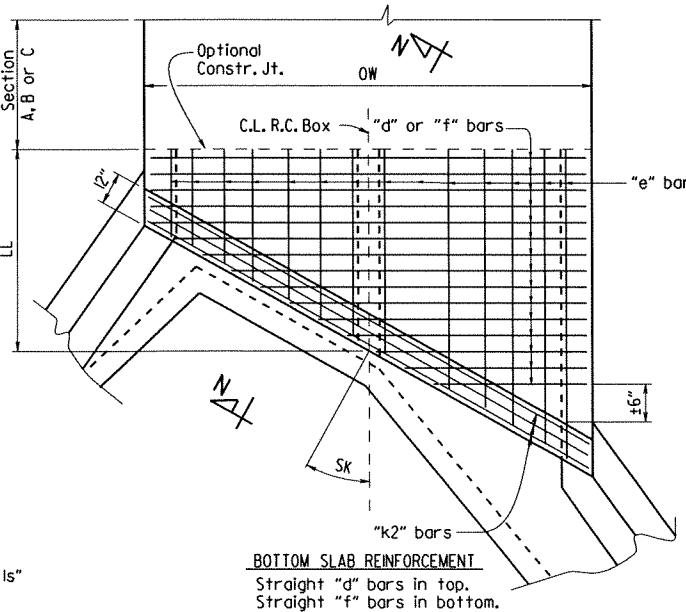
At the Contractor's option in lieu of providing Bent "b" or Bent "bl" bars, one bar top and bottom of equivalent size may be substituted for each bent bar. Payment for the reinforcing will be based on the weight of the "b" or "bl" bar.



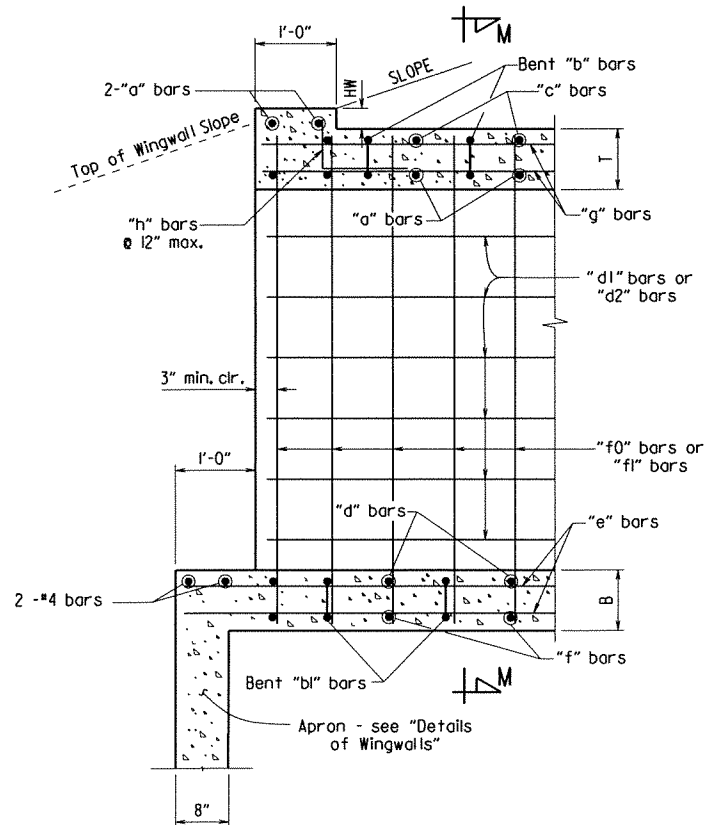
TYPICAL KEYWAY DETAIL



TOP SLAB REINFORCEMENT

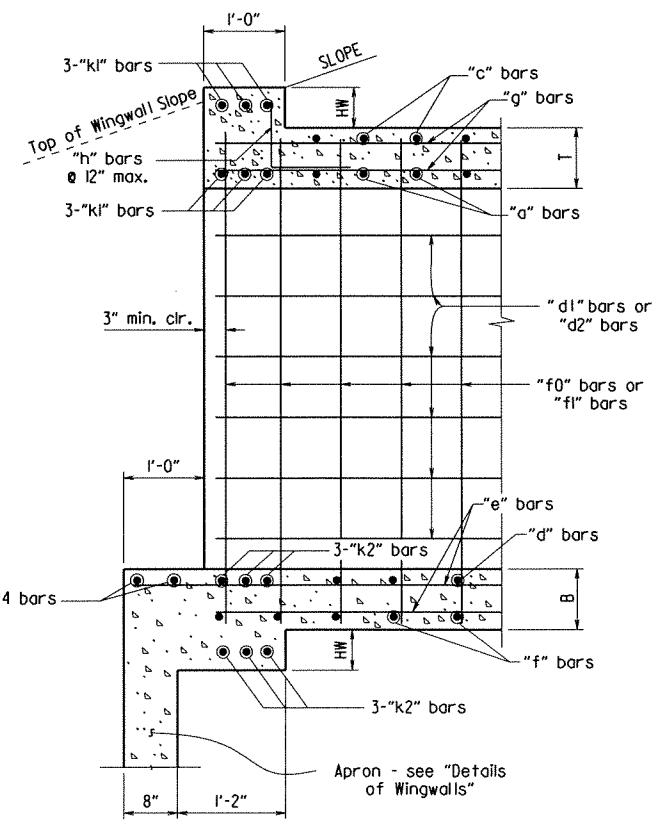


BOTTOM SLAB REINFORCEMENT



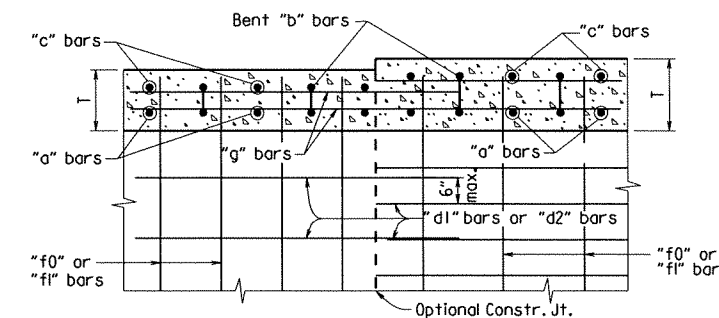
PART LONGITUDINAL SECTION

(Non-Skewed Ends)



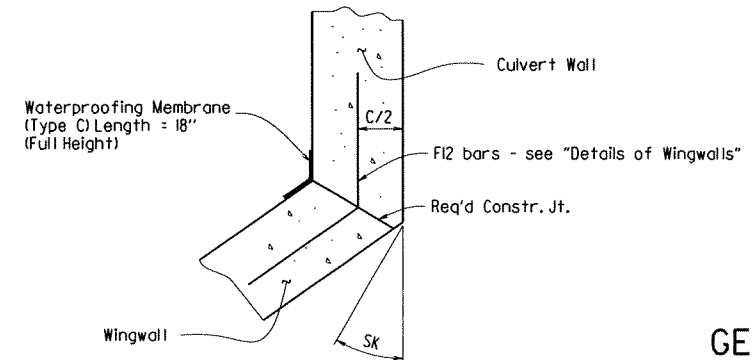
PART LONGITUDINAL SECTION N-N

(Skewed Ends)



LONGITUDINAL LAP DETAIL AT CHANGE IN SECTIONS

TOP SLAB SHOWN, BOTTOM SLAB SIMILAR

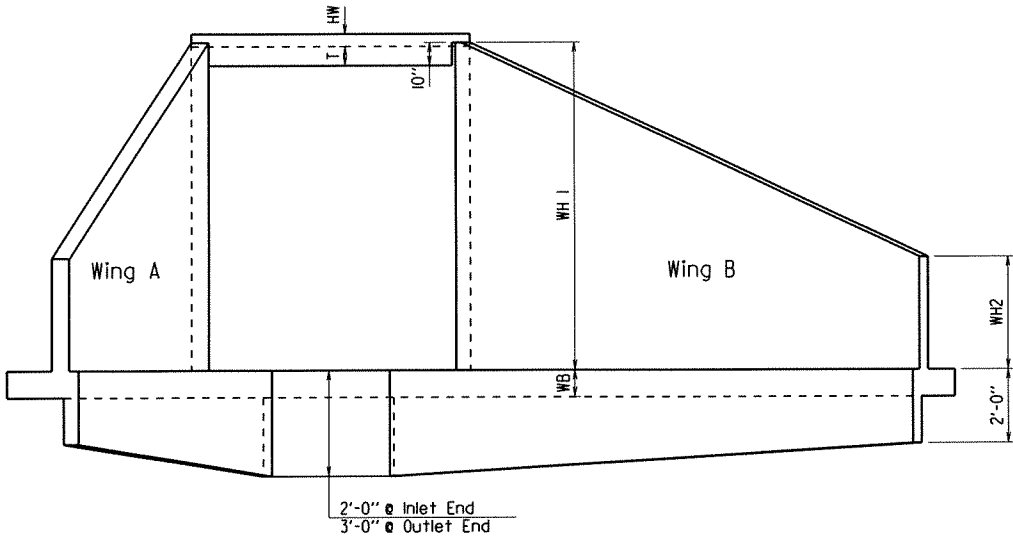


WINGWALL ATTACHMENT

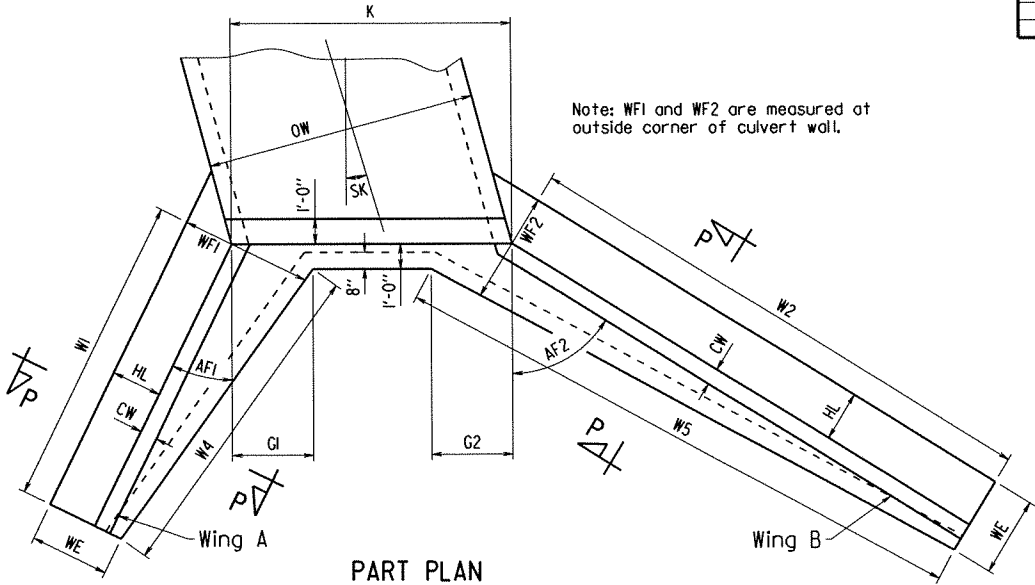
See "Details of Wingwalls" for additional information and wingwall details.

SHEET 3 OF 4
GENERAL DETAILS OF R.C. BOX CULVERT
DETAILS OF MULTI-BARREL
R.C. BOX CULVERT
SPECIAL DETAILS

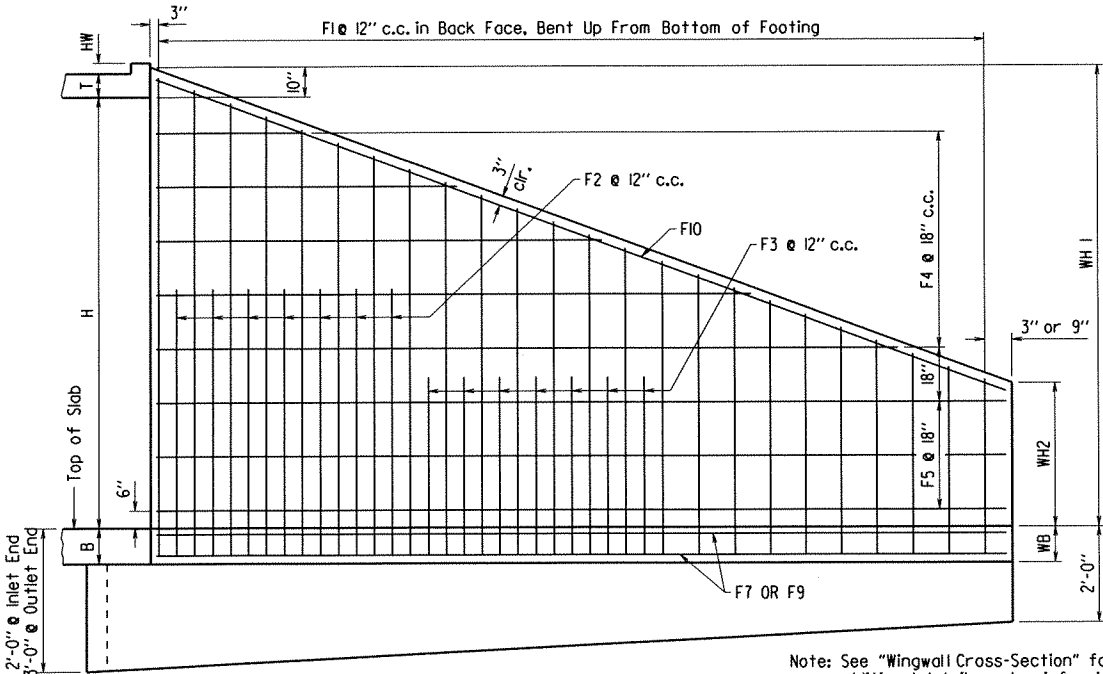
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				6	ARK.			
				JOB NO.		FA5308	11	63
SPECIAL DETAILS								



END ELEVATION



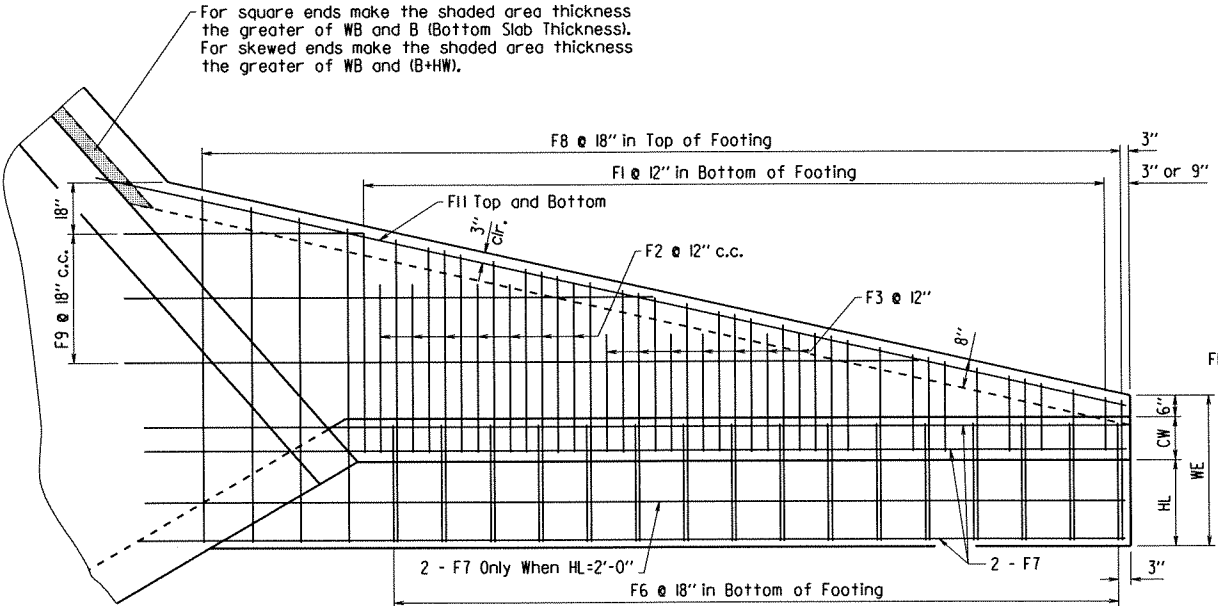
PART PLAN



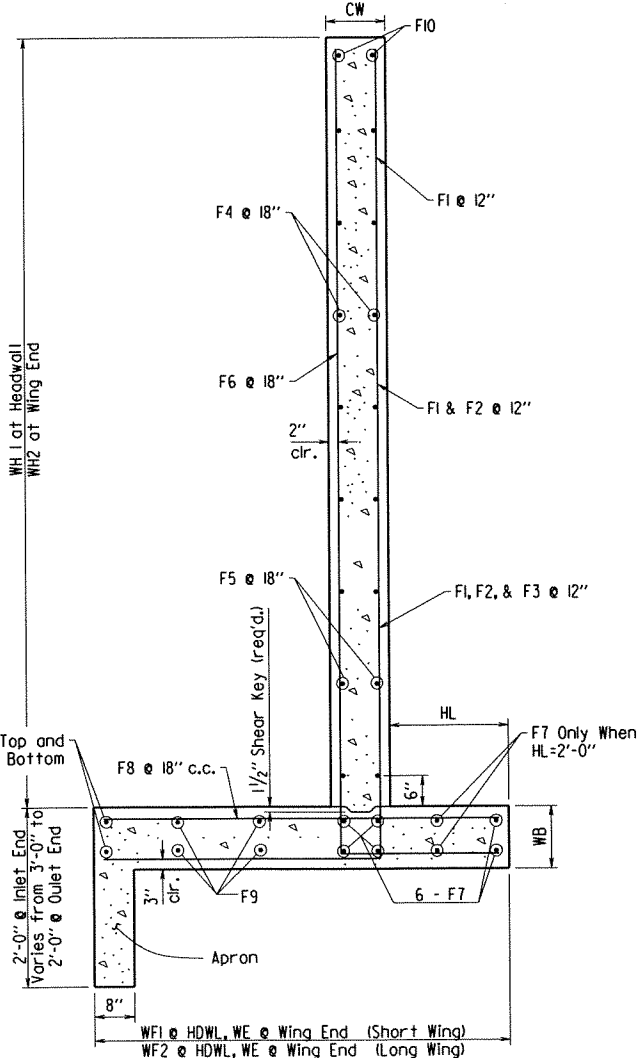
WINGWALL ELEVATION

Showing Back Face Reinforcement

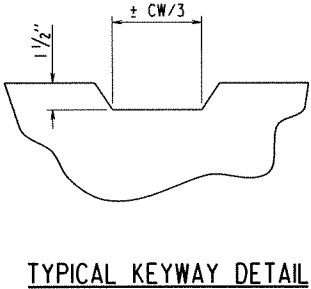
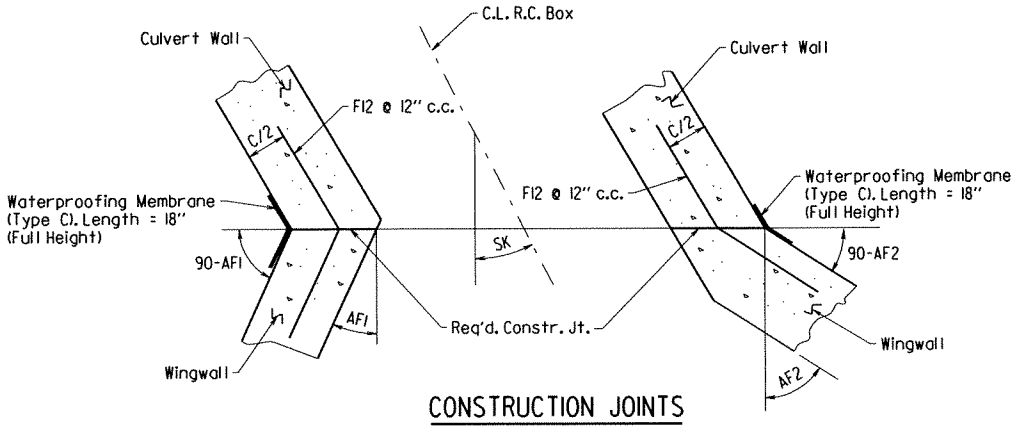
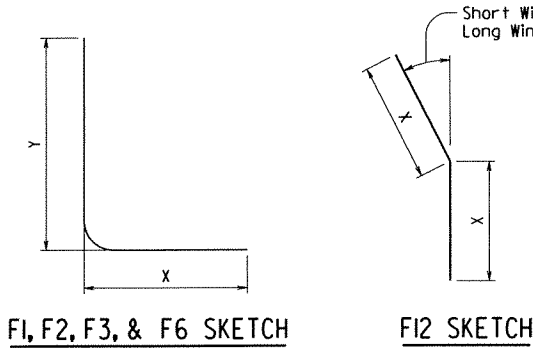
Note: See "Wingwall Cross-Section" for additional details and reinforcing



WINGWALL PLAN



WINGWALL SECTION P-P



SURVEY BASELINE

Project Name: sfa5306
Date: 11/2/2010
Coordinate System: ARKANSAS STATE PLANE - NORTH/SOUTH ZONE BASED ON GPS CONTROL,
PROJECTED TO GROUND.
Units: U.S. SURVEY FOOT

Point Name	Northing	Easting	Elev	Feature	Description
9	220286.4055	1021830.9840	316.17	CTL	5/8" REBAR 2" ALUM. CAP
10	220683.8959	1022771.4967	329.89	CTL	5/8" REBAR 2" ALUM. CAP
11	220646.5131	1023166.7286	353.57	CTL	5/8" REBAR 2" ALUM. CAP
12	220670.1163	1023760.8253	338.78	CTL	5/8" REBAR 2" ALUM. CAP
13	220848.6161	1024106.2825	315.61	CTL	5/8" REBAR 2" ALUM. CAP
14	221009.1406	1024683.6300	302.08	CTL	5/8" REBAR 2" ALUM. CAP
15	220537.1205	1024936.0296	303.17	CTL	5/8" REBAR 2" ALUM. CAP
16	220477.6904	1025304.7808	309.43	CTL	5/8" REBAR 2" ALUM. CAP
150	220677.6270	1025903.1118	317.93	CTL	5/8" REBAR 2" ALUM. CAP
151	220656.1946	1026190.4923	315.28	CTL	5/8" REBAR 2" ALUM. CAP
152	220288.5483	1026586.7255	319.19	CTL	5/8" REBAR 2" ALUM. CAP
153	220276.3376	1027101.9626	315.39	CTL	5/8" REBAR 2" ALUM. CAP
154	220241.6224	1027608.3676	316.91	CTL	5/8" REBAR 2" ALUM. CAP
704	221108.3788	1024398.1531	303.40	CTL	5/8" REBAR 2" ALUM. CAP
908	221084.8072	1024596.7349	302.83	TBM	TBM-908 8" SPK 20" OAK
909	220516.5235	1025558.6395	308.72	TBM	TBM-909 8" SPK 6" LOCUST
910	220239.4953	1026807.9240	320.01	TBM	TBM-910 8" SPK 10" PINE
911	220238.2093	1027923.7690	316.23	TBM	TBM-911 8" SPK 12" OAK
1508	220648.1521	1025423.5025	306.45	CTL	8" SPK 4" S 18" OAK
1509	220684.5501	1025477.6383	305.42	CTL	8" SPK 6" W NW-COR BARN
1510	220608.4309	1025474.0684	306.75	CTL	8" SPK 8" W SW-COR BARN
1511	220602.0766	1025532.4234	305.95	CTL	8" SPK 6" S SE-COR BARN
1512	220524.4032	1027434.5331	313.81	CTL	8" SPK 6" W SW-FENCE COR
1513	220512.9994	1027485.4929	314.72	CTL	8" SPK 6" S SW-COR BARN
1514	220507.1436	1027548.3819	315.88	CTL	8" SPK 6" S SE-COR BARN
1515	220570.1264	1027563.5889	314.85	CTL	8" SPK 8" E NE-COR BARN

*Note - Rebar and Cap - Standard - 5/8" Rebar with 2" Aluminum Cap stamped
(standard markings common to all caps), or as indicated
(other markings indicated in the point description of the individual point).
USE CAF = 1.0 FOR STAKEOUT FOR THIS PROJECT

THIS CAF IS INTENDED FOR USE WITHIN THE PROJECT LIMITS.
GRID DISTANCE = GROUND DISTANCE X CAF.
GRID COORDINATES ARE STORED UNDER FILE NAME, SFA5306G1.CTL
HORIZONTAL DATUM: NAD 83 (1997)
VERTICAL DATUM: NAVD 88

REFERENCE POINTS (1500 SERIES) ARE TO BE USED TO ESTABLISH CONTROL
IF THE PRIMARY CONTROL POINTS LISTED ABOVE HAVE BEEN DESTROYED.
REFERENCE POINTS ARE NOT TO BE USED FOR VERTICAL CONTROL

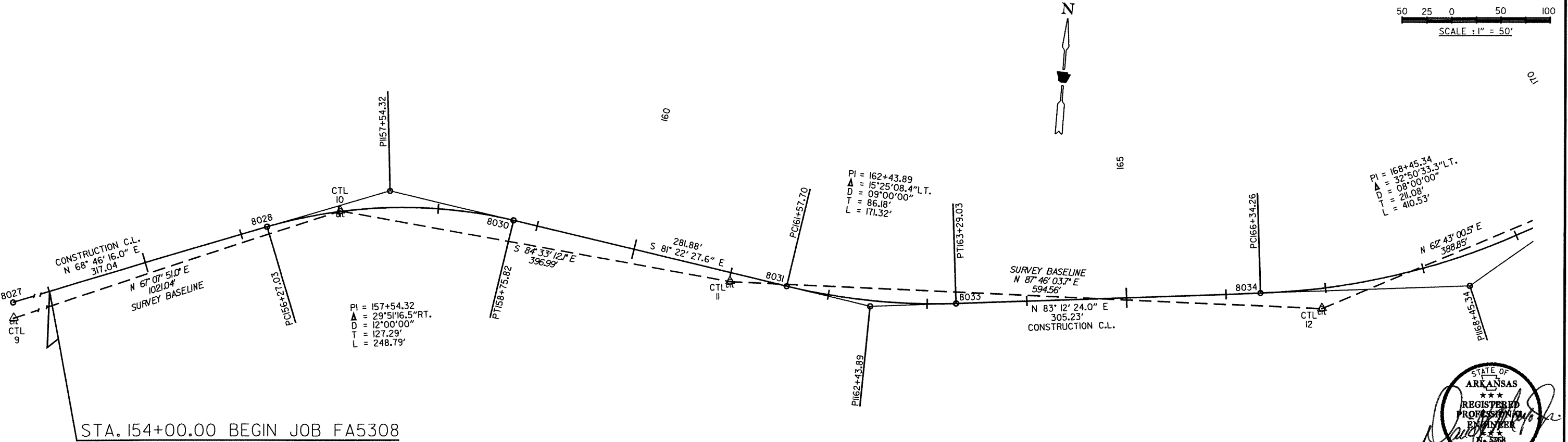
BASIS OF BEARING:
ARKANSAS STATE PLANE GRID BEARINGS - 0301-NORTH ZONE
DETERMINED FROM SOLAR OBSERVATION AT POINT NUMBER 153
CONVERGENCE ANGLE: 0° 33' 13.6" LEFT AT LT: 34-56 05 LG: 092-57-06
GRID AZIMUTH = ASTRONOMICAL AZIMUTH - CONVERGENCE ANGLE.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		FA5308	12	63

4 SURVEY CONTROL DETAILS

CONSTRUCTION CENTERLINE COORDINATES

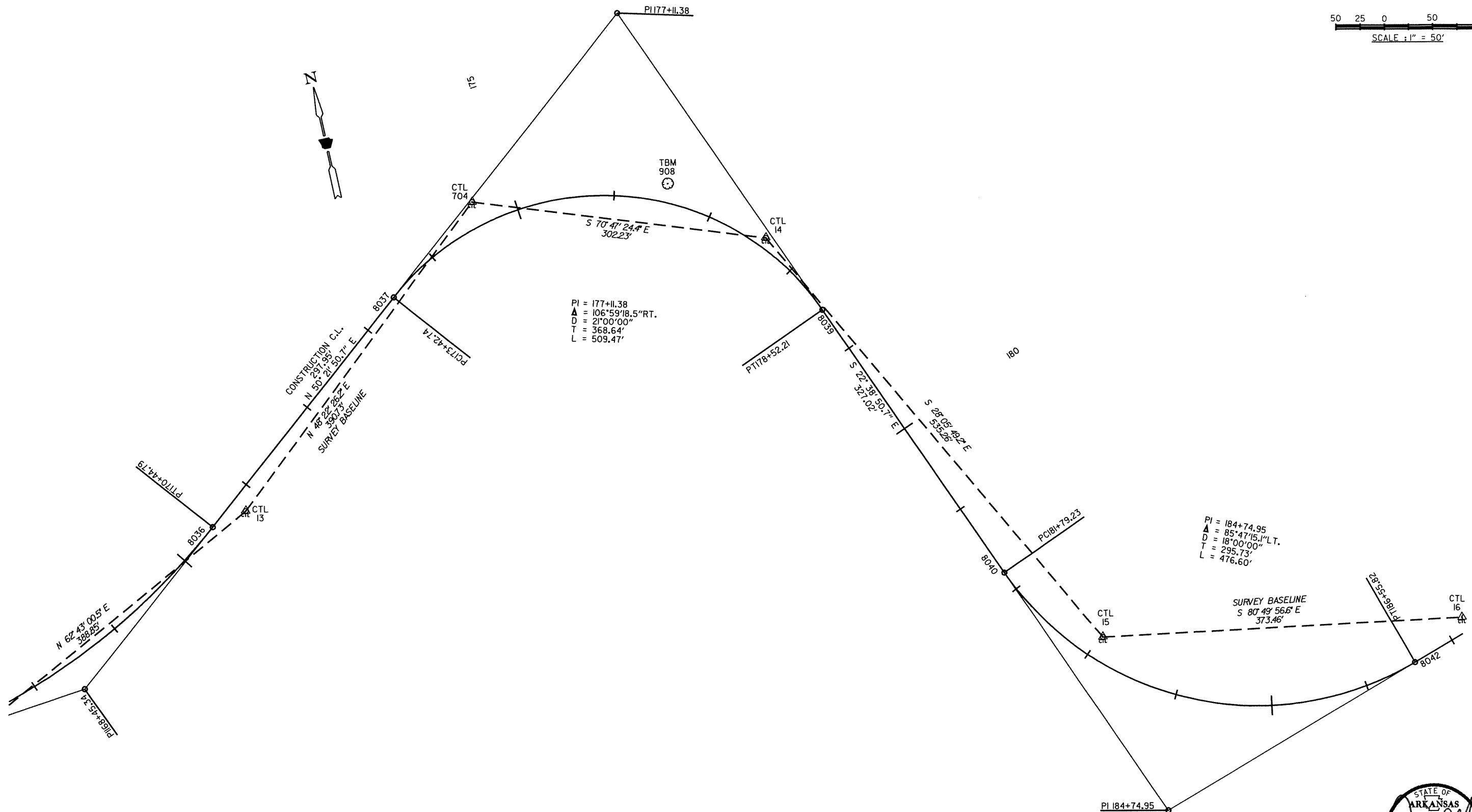
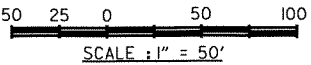
PT. NO.	STATION	NORTHING	EASTING
8027	POT 153+10.00	220547.2862	1022405.0860
8028	PC 156+27.03	220662.0830	1022700.6076
8030	PT 158+75.82	220689.0827	1022945.1045
8031	PC 161+57.70	220646.8060	1023223.8010
8033	PT 163+29.03	220644.0749	1023394.5849
8034	PC 166+34.26	220680.1803	1023697.6738
8036	PT 170+44.79	220839.7961	1024069.8231
8037	PC 173+42.74	221029.8597	1024299.2776
8039	PT 178+52.21	220924.8026	1024725.1213
8040	PC 181+79.23	220623.0000	1024851.0428
8042	PT 186+55.82	220443.5930	1025245.4668
8043	PC 193+73.87	220670.6589	1025926.6645
8045	PT 197+20.77	220597.6295	1026248.4677
8046	PC 200+33.32	220380.4846	1026473.2725
8048	PT 202+89.47	220280.4488	1026703.1681
8049	POT 213+00.00	220227.1360	1027712.2952



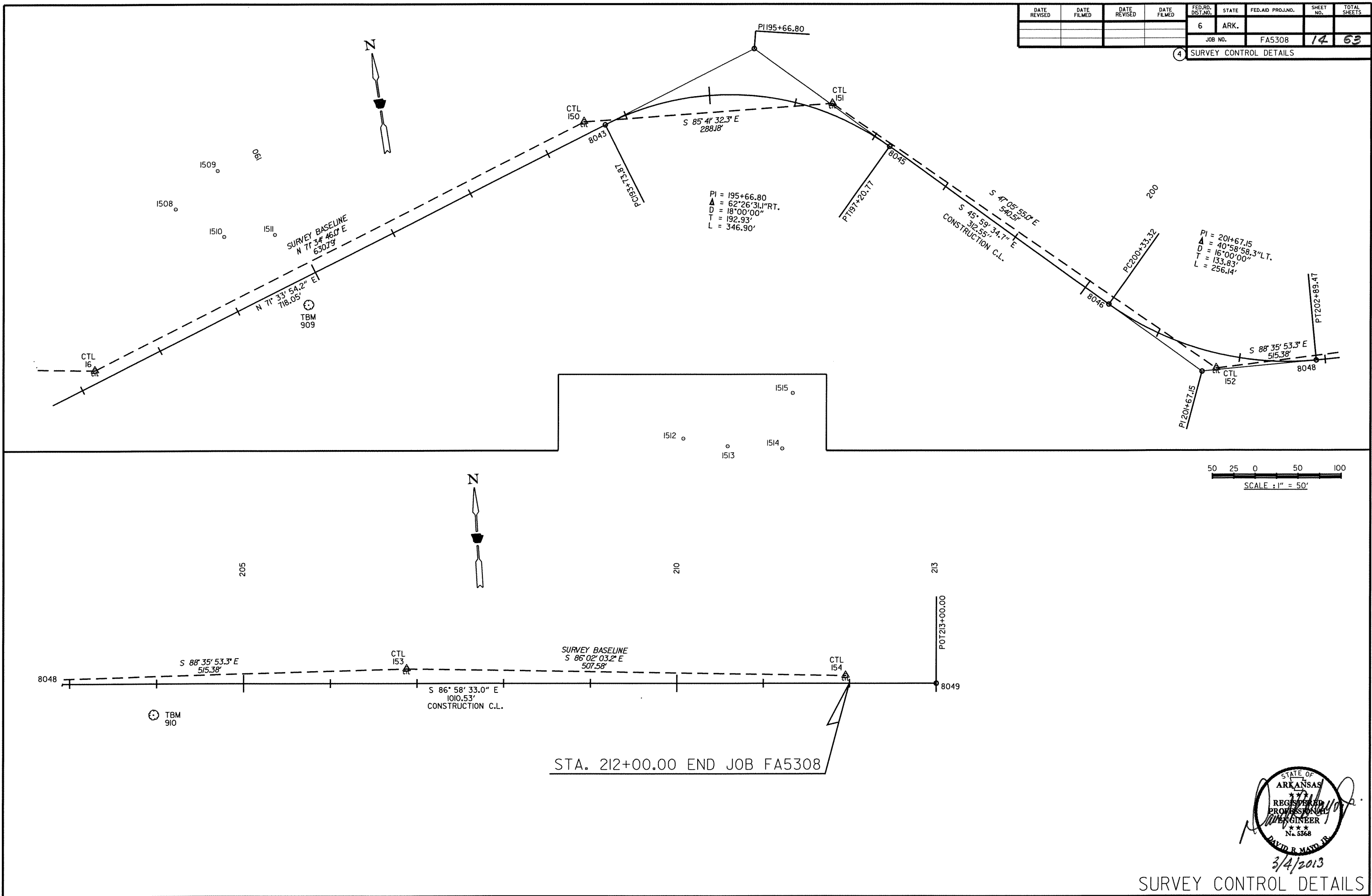
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
DAVID R. MAYO, JR.
No. 5368

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		FA5308	13	63

4 SURVEY CONTROL DETAILS



3/4/2013
SURVEY CONTROL DETAILS



STATE OF
ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
No. 5568
DAVID R. MAYO JR.
3/4/2013

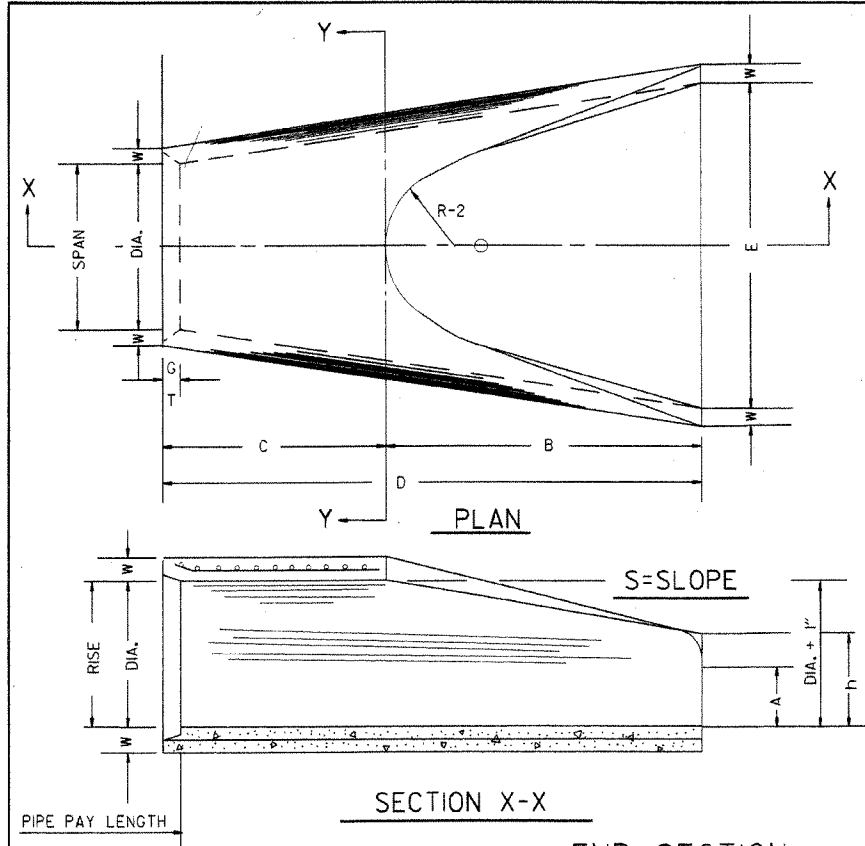
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				6	ARK.		15	63
				JOB				

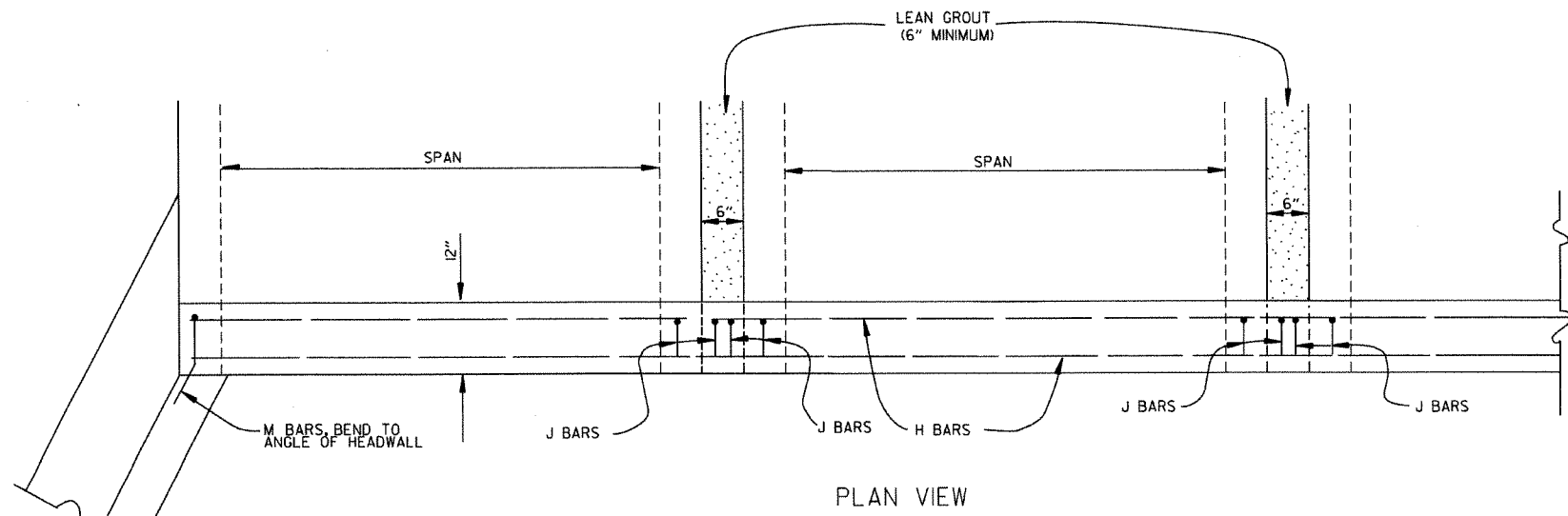
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB				

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3/28/13				6	ARK.			
				JOB NO.		FA5308		

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB				





BAR LIST				

REINFORCED CONCRETE ARCH PIPE DIMENSIONS

EQUIV. DIA.	SPAN		RISE	
	AASHTO M 206			

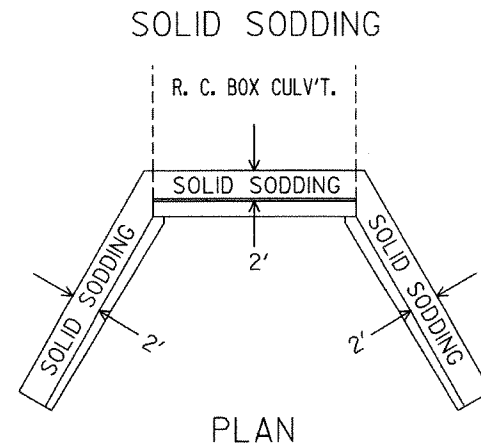
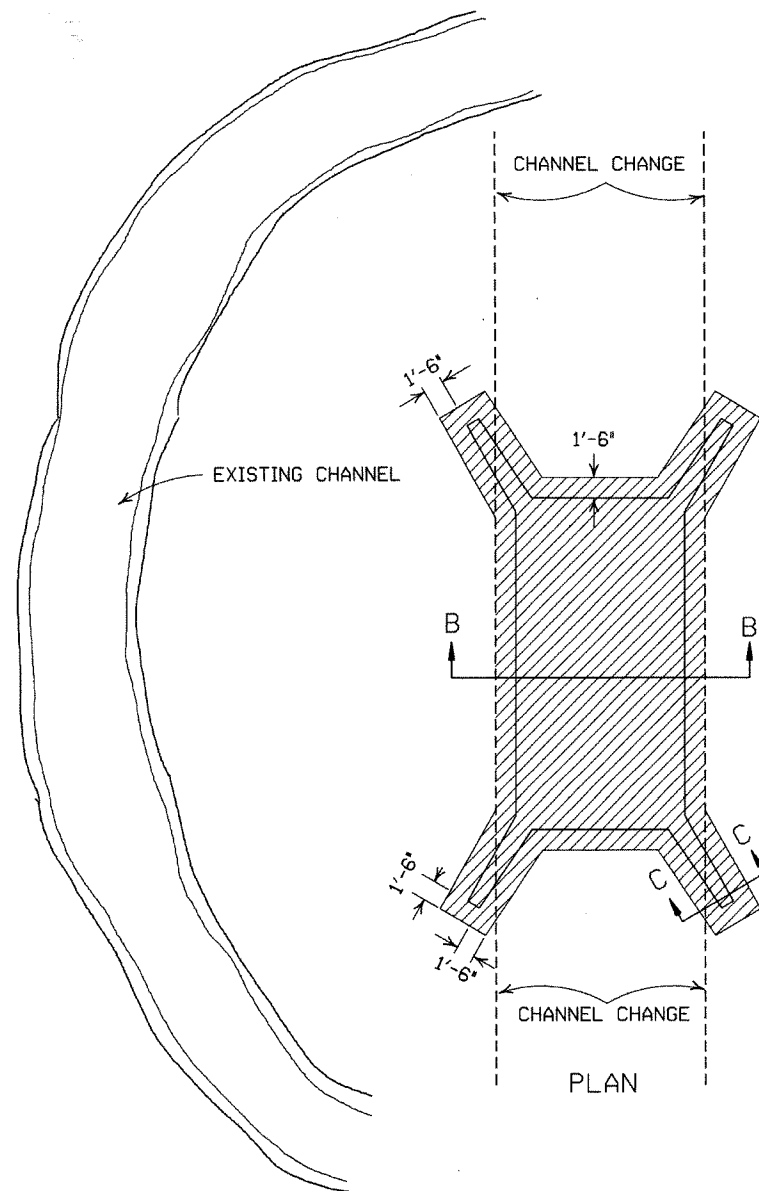
INSTALLATION TYPE	** MATERIAL REQUIREMENTS FOR STRUCTURAL BACKFILL AND STRUCTURAL BEDDING
TYPE 2	*SELECTED MATERIALS (CLASS SM-1, SM-2 OR SM-4)

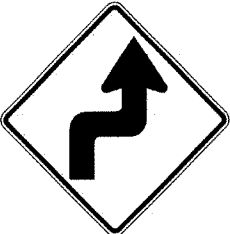
- AGGREGATE BASE COURSE (CLASS 4, 5, 6, OR 7) MAY BE USED IN LIEU OF SELECTED MATERIAL.

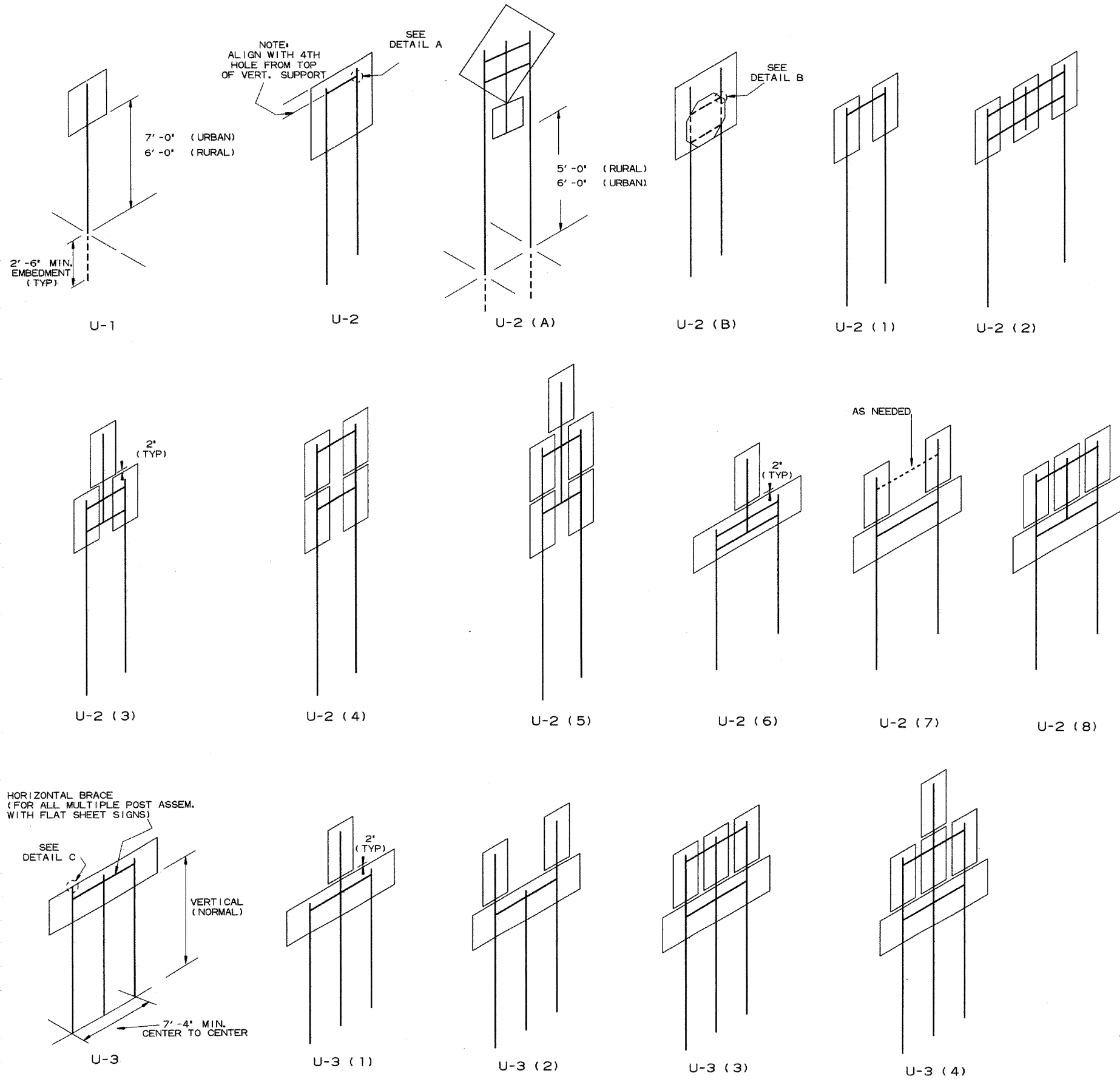
SM3 WILL NOT BE ALLOWED.
-

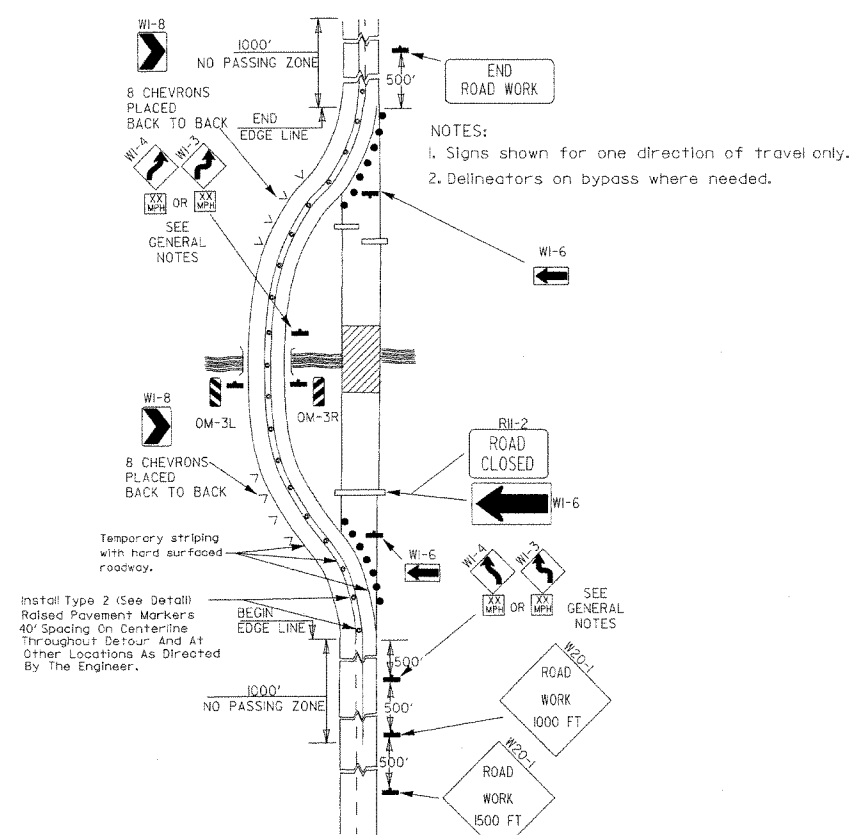
INSTALLATION TYPE	•• MATERIAL REQUIREMENTS FOR STRUCTURAL BACKFILL AND STRUCTURAL BEDDING
TYPE 2	•SELECTED MATERIALS (CLASS SM-1, SM-2, OR SM-4)

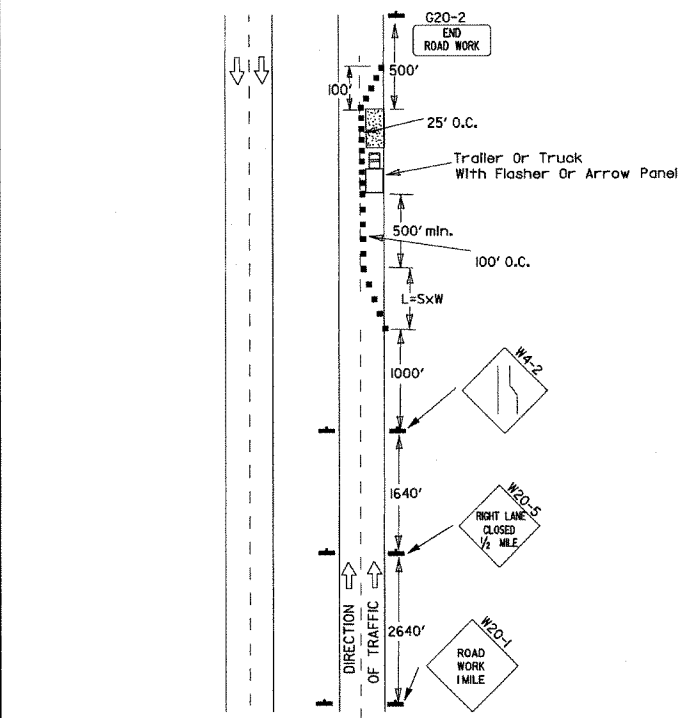
• AGGREGATE BASE COURSE (CLASS 4, 5, 6, OR 7) MAY BE USED IN LIEU OF SELECTED MATERIAL.<



 RI-1 30"X30"  WI-3 30"X30" (LT. OR RT.)

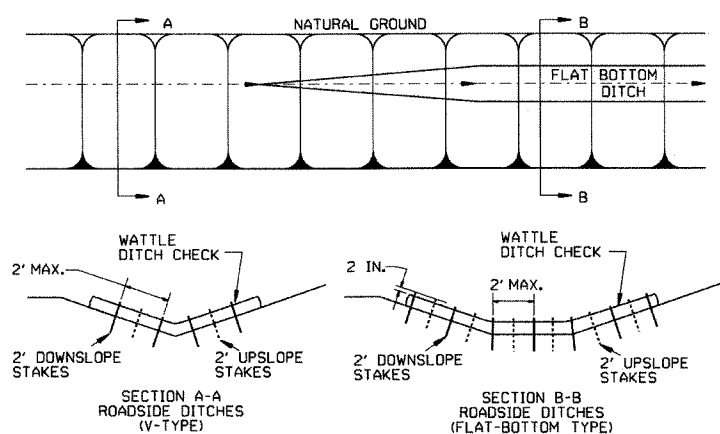


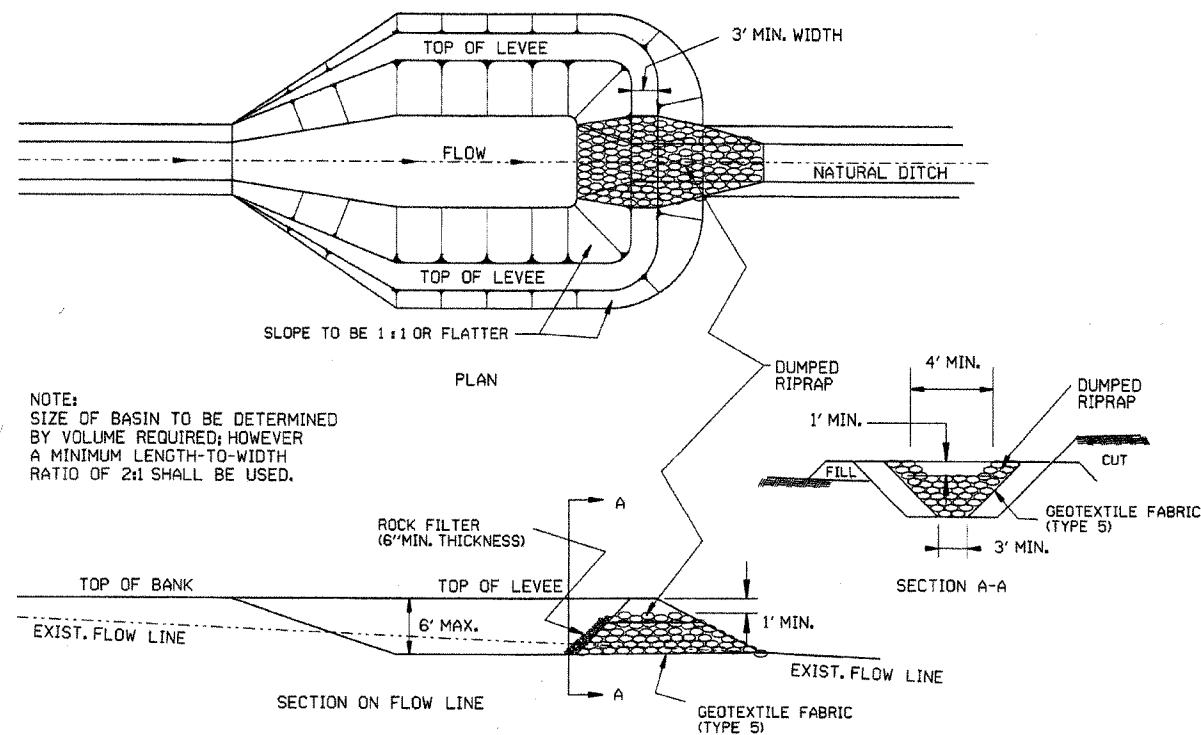




GENERAL NOTES

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

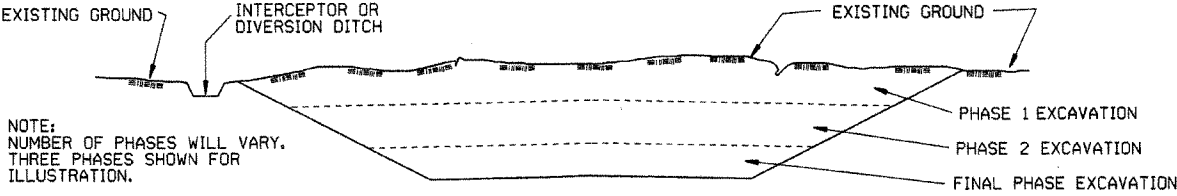




CLEARING AND GRUBBING

- CONSTRUCTION SEQUENCE
1. PLACE PERIMETER CONTROLS (I.E. SILT FENCES , DIVERSION DITCHES, SEDIMENT BASINS, ETC.)
 2. PERFORM CLEARING AND GRUBBING OPERATION.

EXCAVATION

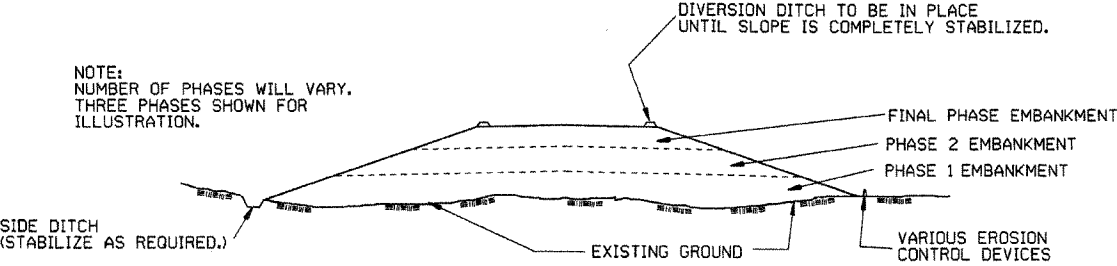


GENERAL NOTE

ALL CUT SLOPES SHALL BE DRESSED, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE EXCAVATED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

- CONSTRUCTION SEQUENCE
1. EXCAVATE AND STABILIZE INTERCEPTOR AND/OR DIVERSION DITCHES.
 2. PERFORM PHASE 1 EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING.
 3. PERFORM PHASE 2 EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING.
 4. PERFORM FINAL PHASE OF EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING. STABILIZE DITCHES. CONSTRUCT DITCH CHECKS, DIVERSION DITCHES, SEDIMENT BASINS, OR OTHER EROSION CONTROL DEVICES AS REQUIRED.

EMBANKMENT



GENERAL NOTE

ALL EMBANKMENT SLOPES SHALL BE DRESSED, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE CONSTRUCTED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

- CONSTRUCTION SEQUENCE
1. CONSTRUCT DIVERSION DITCHES, DITCH CHECKS, SEDIMENT BASINS, SILT FENCES, OR OTHER EROSION CONTROL DEVICES AS SPECIFIED.
 2. PLACE PHASE 1 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.
 3. PLACE PHASE 2 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.
 4. PLACE FINAL PHASE OF EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PLACE DIVERSION DITCHES AND SLOPE DRAINS AND MAINTAIN UNTIL ENTIRE SLOPE IS STABILIZED.

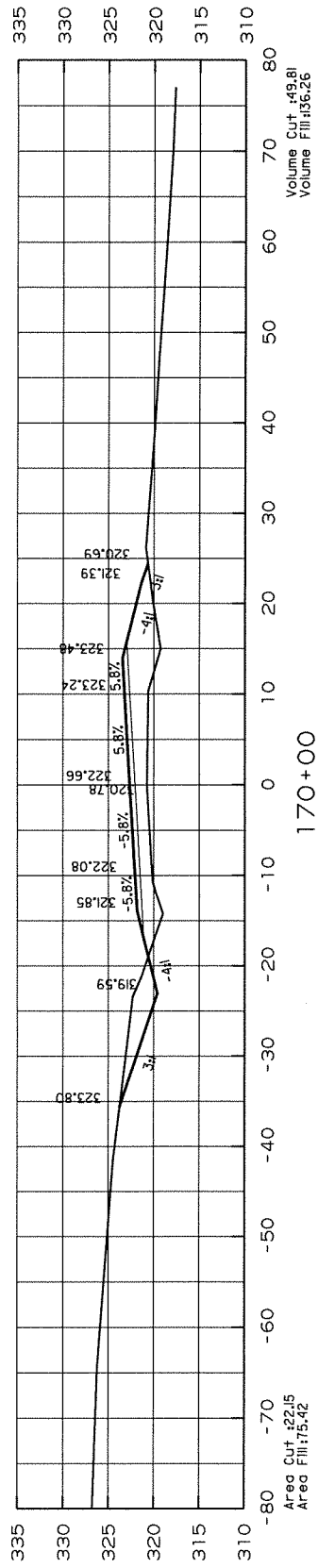
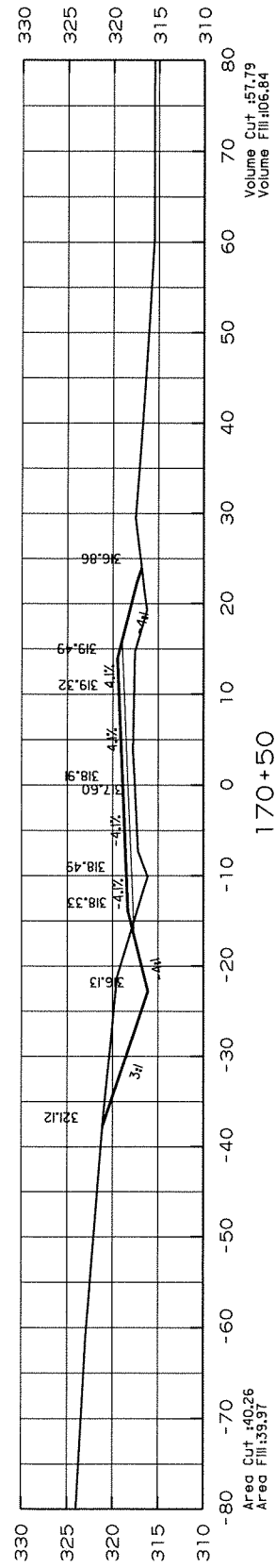
ARKANSAS STATE HIGHWAY COMMISSION		
TEMPORARY EROSION CONTROL DEVICES		
STANDARD DRAWING TEC-3		
11-23-94	CORRECTED SPELLING	
6-2-94	Drawn & Issued	6-2-94
DATE	REVISION	FILMED

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			

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				6	ARK.			
				JOB NO.		FA5308	63	63

4 X-SECTS. STA. 211+50 - STA. 213+00

