

a - Clay, Gravel & Boulders
b - Solid Rock
c - Solid Rock Exposed
d - Rock or Large Boulder

ELEVATION - BR. 5409
D.A. = 4.3 sq. mi
Q₅₀ = 4900 cfs

BENCH MARK - U.E. 1-B-ABOUT 1 MILE NW ALONG HIGHWAY
 #14 FROM TABLET NW 1/4 OF SECTION 11, T15N, 18W
 IN CENTER OF WEST CONC. CURBING OF NORTH SIDE MOST
 BRIDGE OVER WALLACE CREEK A CHISELED SQUARE PAINTED
 U.E. 1-B; ELEVATION 315.26.

FOOTINGS SHALL BE SET A MINIMUM OF 1'-6" INTO ROCK.
 ROCK EXCAVATIONS SHALL BE MADE TO EXPOSE LINES OF
 CONCRETE FOOTINGS. CARE SHALL BE EXERCISED TO AVOID
 SHATTERING OF ROCK FACES BY EXCESSIVE BLASTING.
 CONCRETE IN FOOTINGS SHALL BE POURED DIRECTLY
 AGAINST EXCAVATED SURFACES OF ROCK.

ALL CONCRETE SHALL BE POURED IN THE DRY.

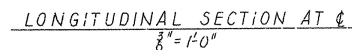
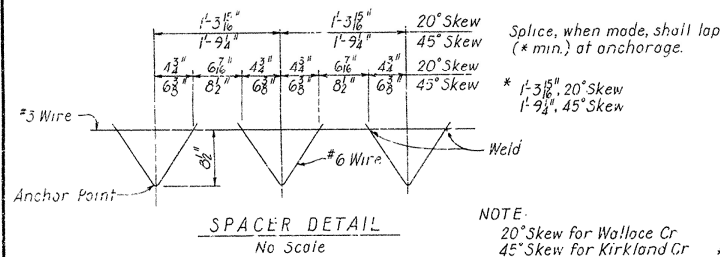
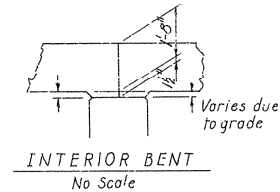
FOR DETAILS OF END BENTS SEE DWG. NO. 1711/3, 1711/7
 FOR DETAILS OF INTERMEDIATE BENTS SEE DWG. NO. 1711/4, 1711/8
 FOR DETAILS OF 25' AND 35' R.C. SLAB SPANS SEE DWG.
 NO. 1711/5, 1711/6, 1711/9, 1711/20

SPECIFICATIONS: ARKANSAS STATE HIGHWAY CONSTRUCTION
 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION,
 EDITION OF 1959, THE 1966 SUPPLEMENTAL SPECIFICATIONS,
 AND APPLICABLE SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS:	AASHTO	1969
LIVE LOADING:	H20	
UNIT STRESSES:	CLASS S CONCRETE (N=10)	1,200 PSI
	REINFORCING STEEL	20,000 PSI

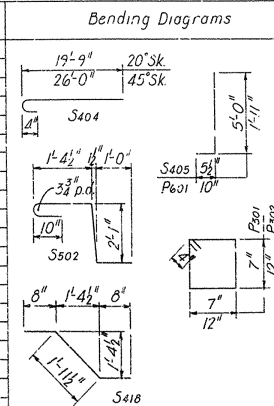
FOUNDATION PRESSURE - Group III *9.1 ksf make*
3.5 ksf min.

LAYOUT OF BRIDGES OVER
CONDITT & WALLACE CREEKS
HWY. 14 BRIDGES
STONE COUNTY
ROUTE 14 SEC. 7
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: dk. May DATE: 11-13-70
CHECKED BY: FMH DATE: 11-13-70
SCALE: 1" = 20'
BRIDGE NO. 5408, 5409 DRAWING NO. 17110



MK	No. Bars Req'd.		Length of Bar		Pin Dia	Bending Diagrams
	End	Int.	20° Skew	45° Skew		
S901	27	30	34'-4"	34'-4"	Str.	
S902	28	28	34'-6"	34'-6"	Str.	
S903	27	30	34'-10"	34'-10"	Str.	
* S904-S906	1 ea.	-	34'-11" to 35'-1"	35'-0" to 35'-6"	Str.	
* S907-S909	1 ea.	-	35'-4" to 35'-2"	35'-3" to 34'-9"	Str.	
** S910-S912	1 ea.	-	34'-8" to 34'-6"	34'-7" to 34'-1"	Str.	
** S913-S915	1 ea.	-	35'-7" to 35'-9"	35'-8" to 36'-2"	Str.	
S501	49	49	7'-11"	50'-5"	Str.	
S502	112	112	5'-5"	5'-5"	2 1/2"	
S401	9	12	34'-4"	34'-4"	Str.	
S402	10	10	34'-6"	34'-6"	Str.	
S403	9	12	34'-10"	34'-10"	Str.	
S404	56	56	20'-3"	26'-6"	3"	
S405	56	56	5'-5"	5'-5"	2"	
* S406-S408	1 ea.	-	34'-11" to 35'-4"	35'-0" to 36'-4"	Str.	
* S409-S411	1 ea.	-	35'-4" to 34'-10"	35'-3" to 33'-11"	Str.	
* S412-S414	1 ea.	-	34'-8" to 34'-2"	34'-7" to 33'-3"	Str.	
** S415-S417	1 ea.	-	35'-7" to 36'-0"	35'-8" to 37'-0"	Str.	
S418	208	208	3'-4"	3'-4"	2"	
S419	8	-	2'-3"	2'-3"	5/16"	
S420	12	-	1'-6"	1'-6"	3"	
P601	62	50	2'-9"	2'-9"	Str.	
P301	30	30	2'-9"	2'-9"	1 1/2"	
P302	6	-	4'-5"	4'-5"	1 1/2"	

Dimensions are out to ou" of bars.



Dimensions are out to out of bars.