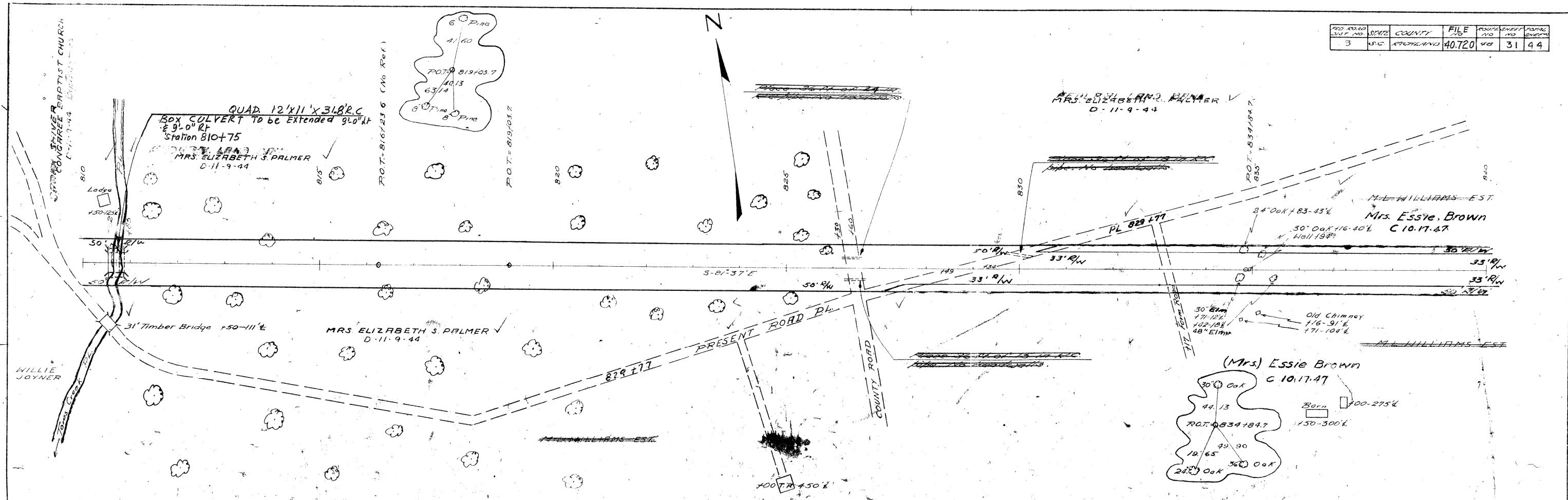
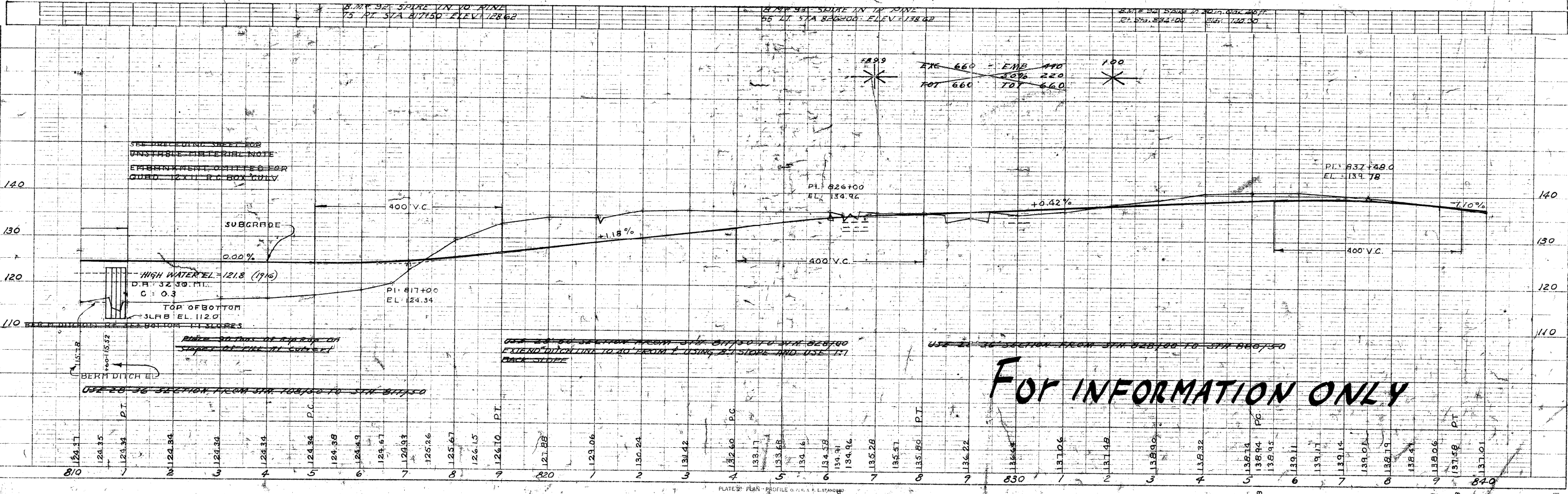


PLAN
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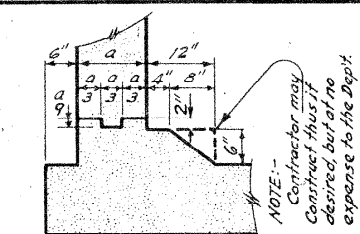
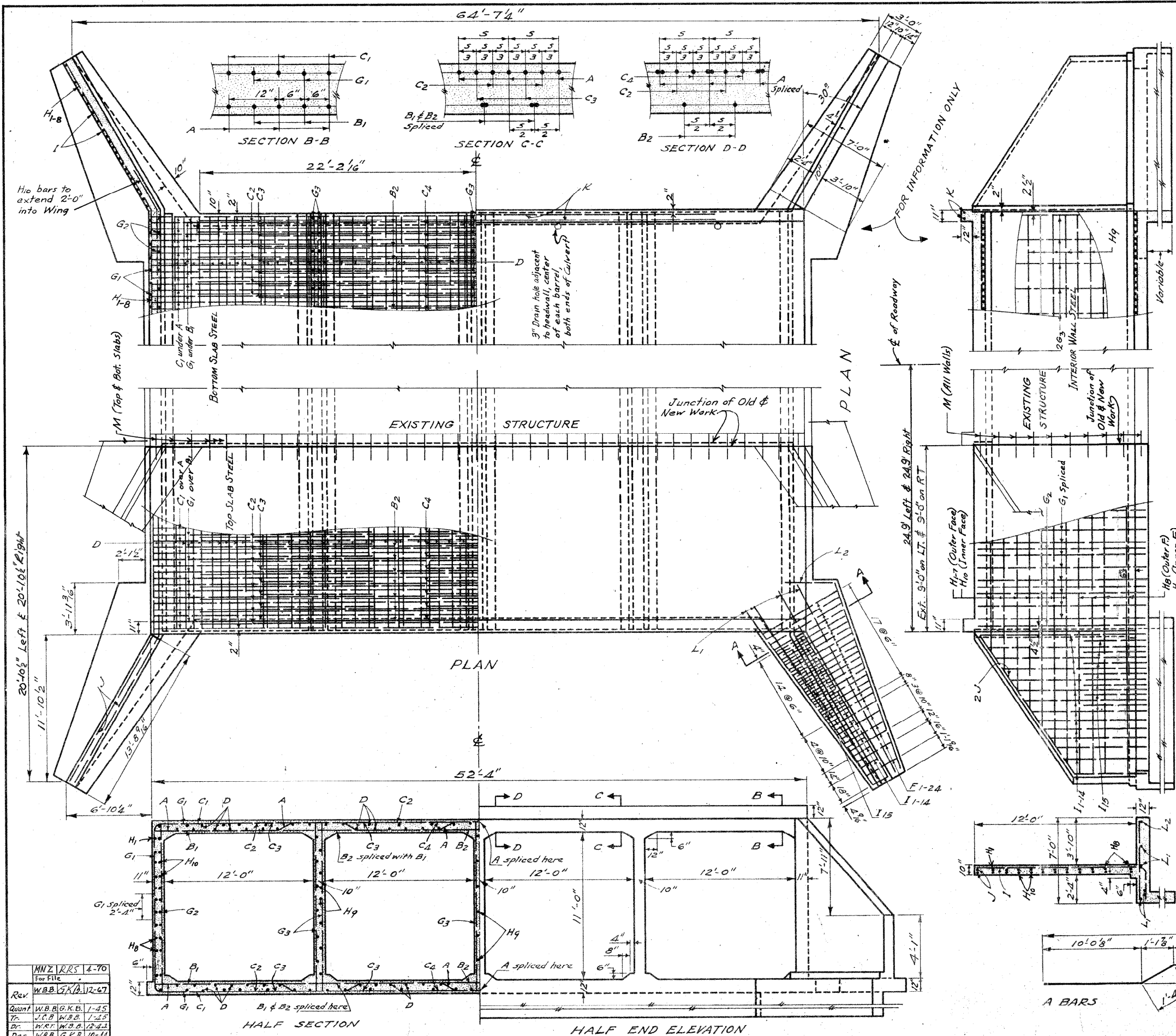
PROJ. NO.	STATE	COUNTY	FILE NO.	ROUTE	SHEET NO.	TOTAL SHEETS
3	S.C.	RICHLAND	40.720	48	31	44



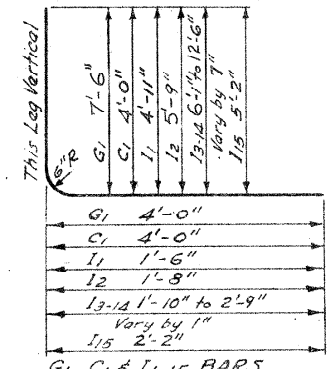
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FOR INFORMATION ONLY



CONSTRUCTION JOINT DETAIL
(Make Interior Wall Joints Similar)



G1, C1 & I1-15 BARS

NOTE:—
Existing headwall is to be removed if necessary, down to the top of top slab or to a depth of 12" below subgrade, whichever is the lesser.
All costs of performing this work, as directed by the Engineer, shall be included in the Unit Price Bid for Class "A" Concrete.

FED. ROAD DIV. NO.	STATE	COUNTY	FILE NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	Richland	40.720	48	39	44

STEEL SCHEDULE BOTH ENDS					
Mark	SIZE NO.	NO. REB.	Length	Spacing	Location
A	#5	80	29'-0"	12" c.c.	T. & B. Slabs
B1	#7	72	15'-7"	"	"
B2	#4	36	24'-10"	"	"
C1	#5	80	7'-9"	"	Corners
C2	#6	72	44'-6"	"	T. & B. Slabs
C3	#6	72	10'-4"	"	"
C4	#4	36	9'-0"	"	"
D	#4	224	8'-6"	As Shown	"
F1 to F6	#4	4 ea.	3'-0" to 4'-3"	"	Wing Footings
F7 to F24	#5	4 ea.	Vary by 3"	"	"
G1	#5	72	11'-3"	12" c.c.	S.W. & Corners
G2	#4	28	12'-8"	18" c.c.	Side Walls
G3	#4	84	12'-8"	18" c.c.	Interior Walls
H1 to H4	#4	4 ea.	Vary by 1'-9"	12" c.c.	S. Walls & Wings (Outer Face)
H5	#4	16	22'-4"	"	"
H6	#4	72	8'-6"	11" Stagger	Interior Walls
H10	#4	44	10'-10"	12" c.c.	Side Walls & Wings (Inner Face)
I1	#4	4	6'-2"	As Shown	Wings & Footings
I2	#4	4	7'-2"	"	"
J3 to J14	#5	4 ea.	7'-8" to 15'-0"	"	"
J15	#5	28	7'-1"	"	"
J	#5	8	18'-0"	"	Wings
K	#8	4	38'-6"	"	Headwalls
L1	#4	16	17'-6"	"	Wing Footings
L2	#4	4	20'-0"	"	"
M	#6	228	1'-6"	"	Dowels

CONSTRUCT WEEP HOLES AND FRENCH DRAINS. SEE PARA. 71020 OF STANDARD SPECIFICATIONS.

TOTAL QUANTITIES BOTH ENDS	
CLASS "A" CONCRETE	135.0 C. Yds.
REINFORCING STEEL	15911 LBS.
Unclassified Excavation	245 C. YDS.

Concrete P.F.L. Barrel	5.8518 C. Yds.
Concrete P.F.D. Cut-off Wall (1 end)	2.3805 C. Yds.
Excav. P.F.D., P.F.L. Barrel	2.1235 C. Yds.

NOTE: CONSTRUCT UNTREATED TIMBER CUTOFF WALLS. SEE ACCOMPANYING SHEET

NOTES:—
Specifications = "Standard Specifications for Highway Bridges," A.A.S.H.O. 1965, $f_c = 20,000 \text{ psi}$, $f_s = 1,200 \text{ psi}$, $n = 10$, $v = 90 \text{ psi}$, $u = 300 \text{ psi}$, H-20 Loading, 10 Earth Fill (Max.) with revisions through 1966 and also meets requirements of Alternate Interstate Tandem Axle Live Load.
Work to be done consists of removing that portion of the existing structure interfering with construction of new structure and extending in accordance with these plans.
The holes for dowels to be drilled 9" into old concrete and the dowels firmly set in a 1:3 mortar.
All costs of removing and disposing of portions of old structure, drilling, and chipping, whether shown or not, necessary to construct New Structure shall be included in the Unit Price Bid for Class "A" Concrete.
The Contractor shall replace or repair at his own expense, and to the satisfaction of the Engineer, any portion of the existing structure damaged due to his carelessness or negligence.
All Concrete shall be Class "A" Concrete.
Spacing of bars is center to center and at right angles.
Center of main reinforcing steel shall be 2" from the surface of concrete.
Chamfer all exposed edges $\frac{3}{4}$ ".
Depth of Cut-off Walls shall be determined by the Engineer and Quantities added to those shown.

S.C. STATE HIGHWAY DEPARTMENT
COLUMBIA

CONCRETE CULVERT

REINFORCED BOX TYPE
QUAD. 12'x11' EXTENDED
9'-0" ON LT. & 9'-0" ON RT.
STA. NO. 10+75

S.C. FILE NO. 40.720 Richland COUNTY
ROUTE NO. 48 DATE 4-70

B 4.1211 EXT

Rev.	W.B.B. 12-67
Quant.	W.B.B. 12-67
Dr.	W.B.B. 12-67
Des.	W.B.B. 12-67
By	W.B.B. 12-67
Checked	W.B.B. 12-67
Date	W.B.B. 12-67