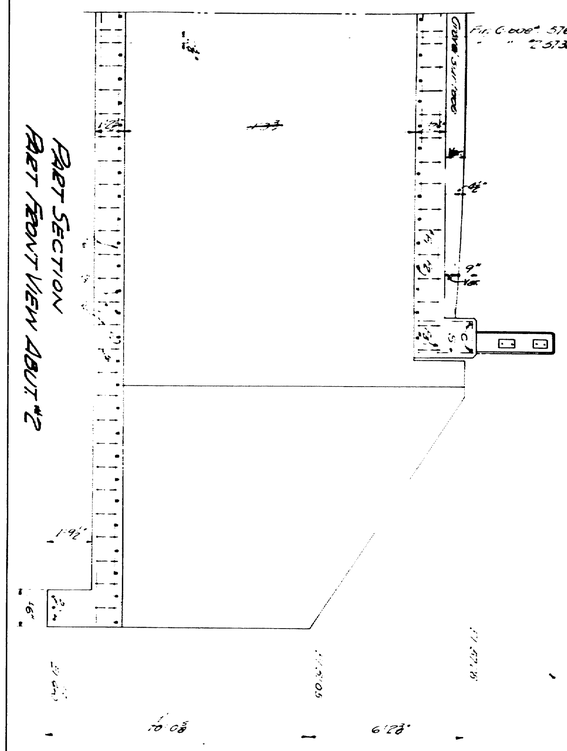
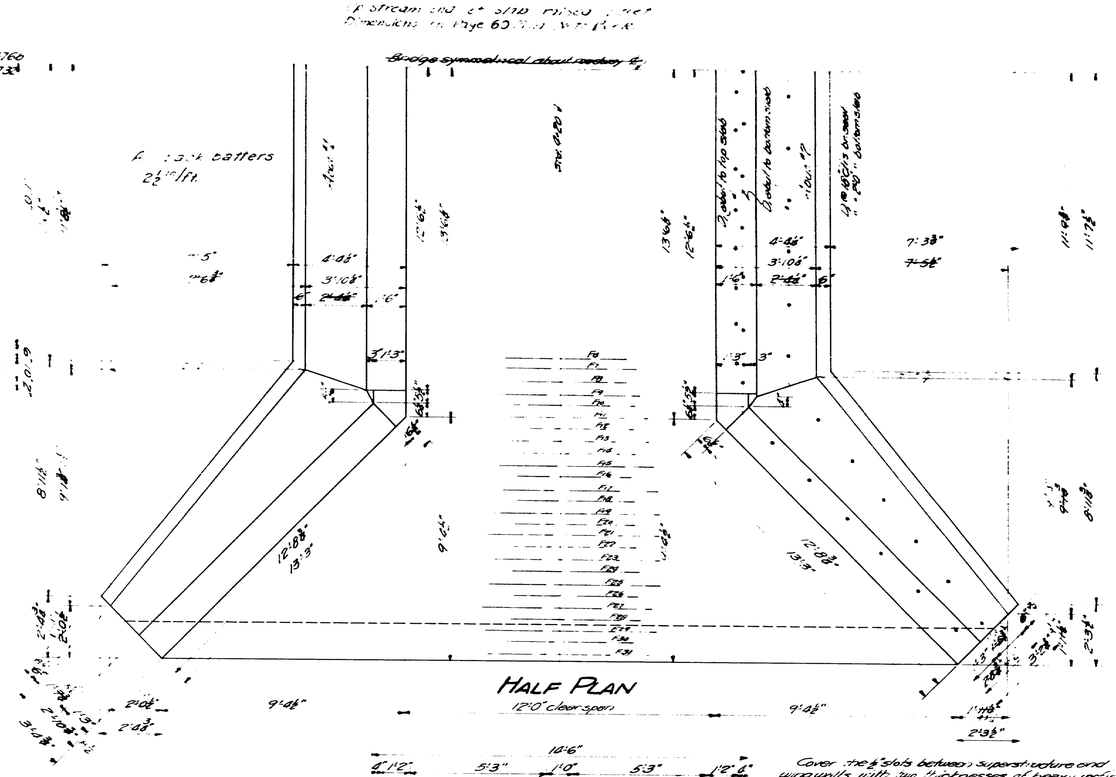
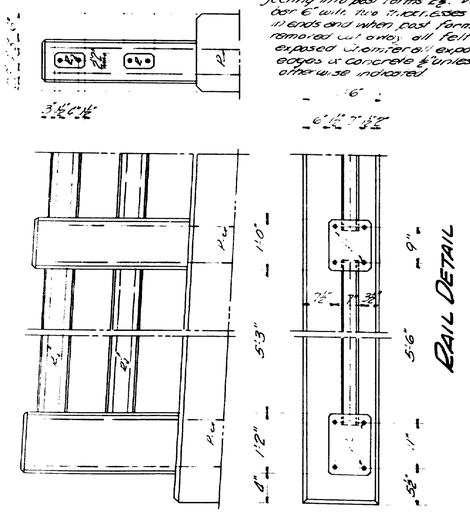
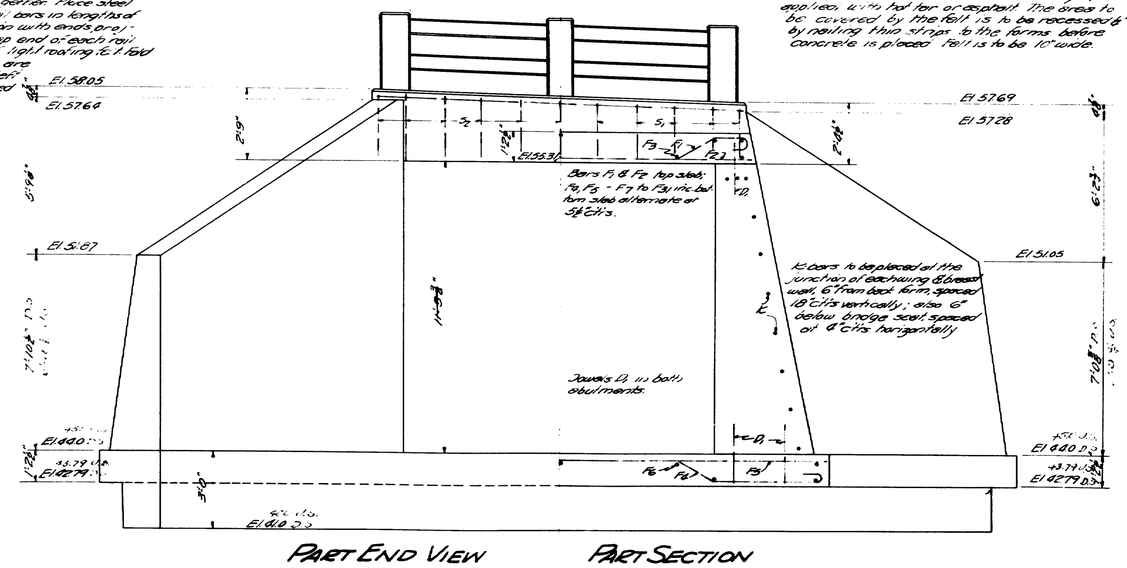




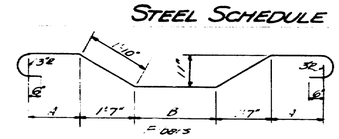
Curb and Slab to be cast together. Place steel turndowns in curbs. Precast rail bars in longitudinal slots in curb. Place rail bars in position with ends projecting into post forms 2½" deep and of each rail bar 6" will fit in metal sleeves at light loading. Fill in ends and when post forms are removed cut ends off flush with exposed surface of concrete. Round all exposed edges of concrete ½" unless otherwise indicated.





Cover the ½" slots between superstructure and wingwalls with two ½" thicknesses of heavy roofing. Coat concrete and backside of each layer as applied, with hot tar or asphalt. The area to be covered by the felt is to be recessed ½" by nailing thin strips to the forms before concrete is placed. Felt is to be 10" wide.

STEEL SCHEDULE



Mark	Size	No.	A	B	Total
F1	⅝"	28	10"	8'-10"	16'-8⅜"
F4	"	26	3'-1½"	8'-10"	22'-11⅜"
F8	"	2	4'-8½"	8'-10"	23'-9⅜"
F10	"	2	5'-1½"	8'-10"	25'-3⅜"
F12	"	2	5'-7⅜"	9'-3½"	26'-9⅜"
F13	"	2	5'-5⅜"	11'-1½"	28'-3⅜"
F16	"	2	5'-3⅜"	12'-11½"	29'-9⅜"
F18	"	2	5'-1⅜"	14'-9½"	31'-3⅜"
F20	"	2	4'-11⅜"	16'-7½"	32'-9⅜"
F22	"	2	4'-9⅜"	18'-5½"	34'-3⅜"
F24	"	2	4'-7⅜"	20'-3½"	35'-9⅜"
F26	"	2	4'-5⅜"	22'-1½"	37'-3⅜"
F28	"	2	2'-11⅜"	23'-11½"	36'-1⅜"
F30	"	2	1'-1⅜"	25'-9½"	36'-3⅜"
S1	⅝"	10	2'-1½"	—	5'-6"
S2	"	12	2'-3⅜"	—	5'-10½"

Mk.	Size	No.	Length
F2	⅝"	26	10'-6"
F3	⅝"	9	28'-6"
F5	⅝"	24	20'-2"
F6	1"	9	45'-3"
F7	⅝"	2	20'-8"
F9	"	2	21'-10"
F11	"	2	23'-8"
F15	"	2	28'-10"
F16	"	2	26'-8"
F17	"	2	27'-10"
F19	"	2	29'-8"
F21	"	2	30'-10"
F23	"	2	32'-8"
F25	"	2	33'-10"
F27	"	2	36'-8"
F29	"	2	32'-6"
F31	"	2	30'-8"
L	¾"	90	8'-0"
D1	1"	130	3'-0"
C	⅝"	6	18'-3"
D	⅞"	24	4'-0"
K	⅝"	16	5'-7"

All steel to be plain round bars of structural grade
All dimensions are to ℄ of bars.

See Page 71

H-15 LOADING

Single Live Load – $f_s = 16000\#$, $f_c = 650\#$, $n = 15$

WORKS PROJECT No. Maine 2001-4

Town 16-11
Bridge 3198

State Highway Commission
Bridge Division

KNIGHTS HILL BRIDGE
over
MESERVEY BROOK
in the town of
LINCOLNVILLE
WALDO COUNTY
DETAILS

Sheet 2 of 3 — Augusta, Me. — June 1935

21-87

0 1 2 3 4 5 INCHES

℄

60

3+00

55

3+50

55

4+10

50

4+30

Sewer 8"-4.3%

50

4+50

50

5+00

℄

50

5+50

50

6+00

0 1 2 3 4 5 INCHES

WORKS PROJECT No.
Maine 1054-9.

KNIGHTS HILL BRIDGE

LINCOLNVILLE

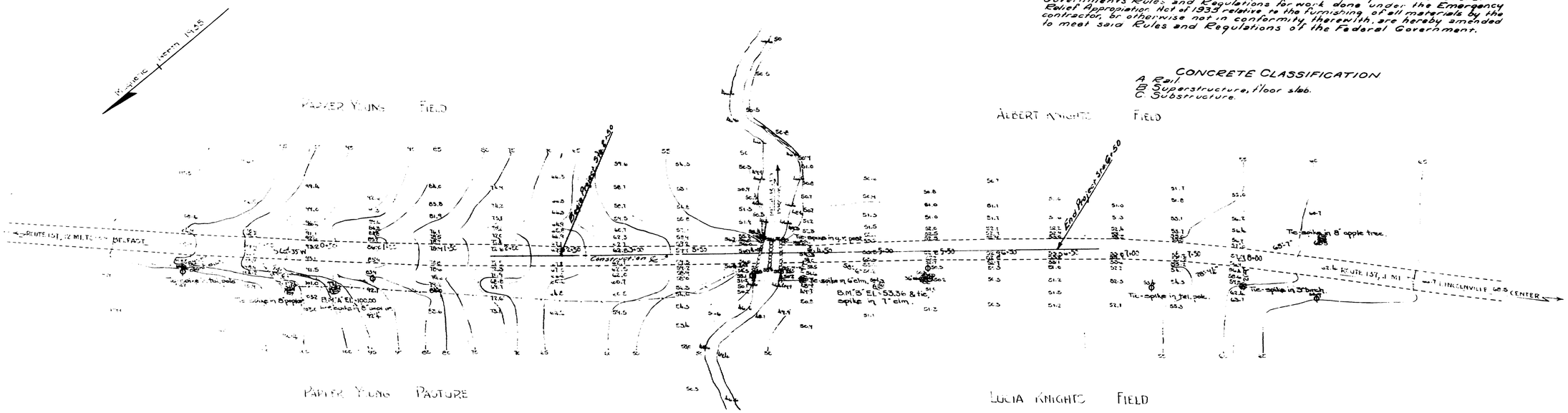
Sheet 3 of 3.

21-88

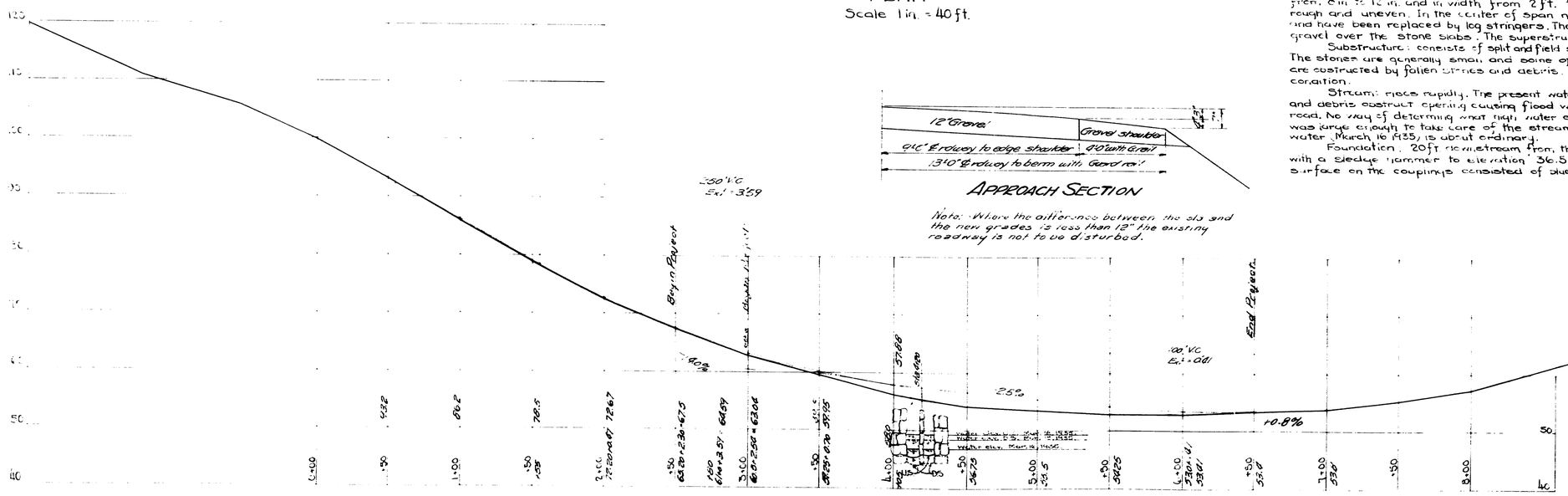
All work contemplated by this contract shall be governed by, and in conformity with, the specifications accompanying these plans.

The above specifications, wherein not in conformity with the Federal Government's Rules and Regulations for work done under the Emergency Relief Appropriation Act of 1935 relative to the furnishing of all materials by the contractor, or otherwise not in conformity therewith, are hereby amended to meet said Rules and Regulations of the Federal Government.

CONCRETE CLASSIFICATION.
A Rail.
B Superstructure, floor slab.
C Substructure.



PLAN
Scale 1 in. = 40 ft.



PROFILE
Scales: Hor. 1 in. = 40 ft.
Vert. 1 in. = 10 ft.

APPROACH SECTION

Note: Where the difference between the old and the new grades is less than 12" the existing roadway is not to be disturbed.

NOTES

Superstructure: consists of split stone slabs varying in thickness from 8 in. to 12 in. and in width from 2 ft. to 3 ft. 6 in. The slabs are very rough and uneven. In the center of span no. 2, two slabs have fallen in and have been replaced by log stringers. The roadway consists of tarred gravel over the stone slabs. The superstructure is in very bad condition.

Substructure: consists of split and field stones, laid dry and poorly. The stones are generally small, and some of them are sliding in. Waterways are obstructed by fallen stones and debris. The substructure is in very bad condition.

Stream: rises rapidly. The present waterway opening is too small. Ice and debris obstruct opening causing flood water to back up and overflow the road. No way of determining what high water elevation would be if the waterway was large enough to take care of the stream flow. The present stage of the water, (March 16 1935), is about ordinary.

Foundation: 20 ft. upstream from the bridge drove a rod down with a sledge hammer to elevation 36.5. The material brought to the surface on the couplings consisted of blue clay and pin gravel.

Surveyed by H.M.C.
Plotted & traced by H.M.C.

Town 14-11
Bridge 3198

WORKS PROJECT No. [illegible]

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

KNIGHTS HILL BRIDGE
OVER
MESERVEY BROOK
IN THE TOWN OF
LINCOLNVILLE
WALDO COUNTY
SURVEY PLAN

Sheet 1 of 3. Augusta, Me. March 1935.

21-86

0 1 2 3 4 5 INCHES