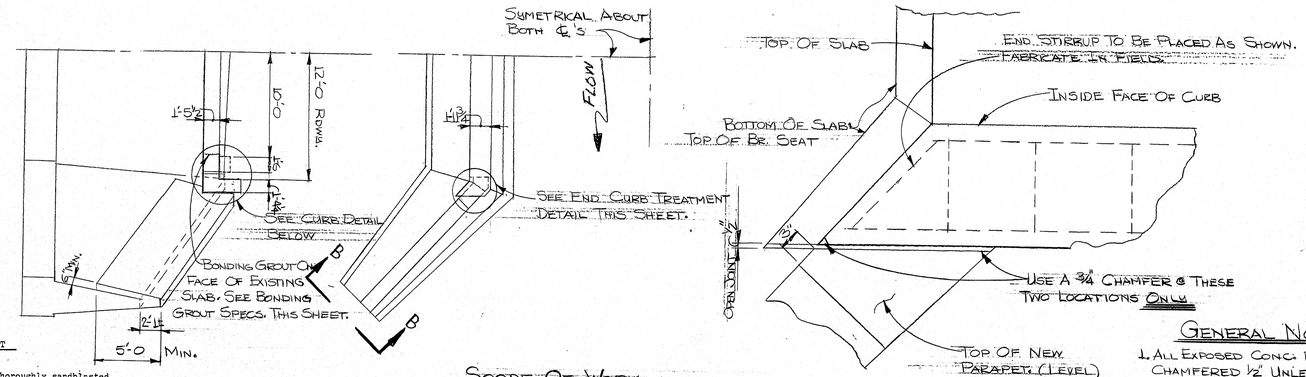
| F.H.W.A. REQ. NO. | STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | | | |




QUARTER PLAN

CURB END TREATMENT

## BONDING GROUT

surface must be thoroughly sandblasted and cleaned to remove all dust or loose materials immediately before the bonding grout is placed.

surface to be surface dry when bonding grout is applied.

The bonding grout shall consist of equal parts by weight of Portland Cement and concrete sand with the plus No. 8 material removed and mixed with enough water to give a thick creamy consistency.

Bonding grout to be evenly brushed onto the concrete surface ensuring that the entire surface is coated and that no excess grout collects in low spots or pockets. Grout shall be thoroughly brushed under and around reinforcing bars.

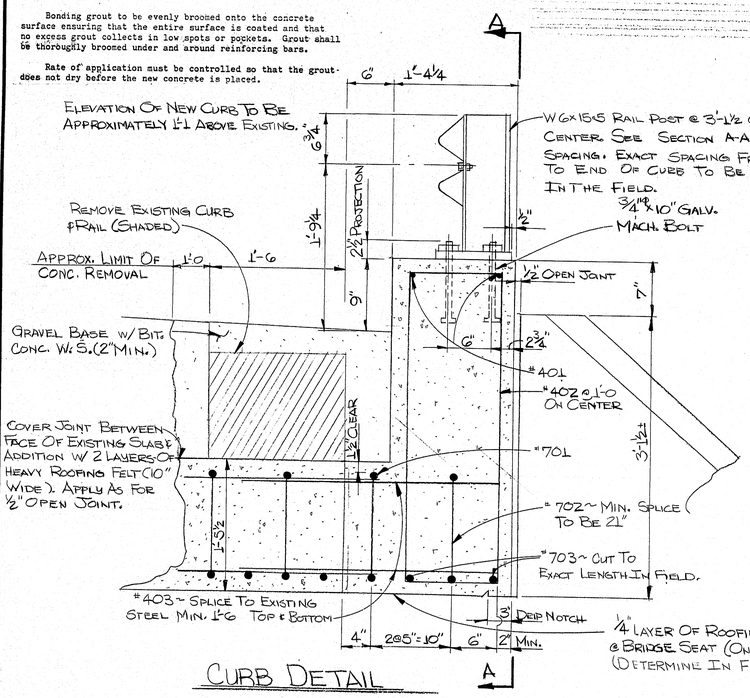
Rate of application must be controlled so that the grout does not dry before the new concrete is placed.

## SCOPE OF WORK

REMOVE EXISTING RAILS & CURBS UNTIL SOUND CONC. IS REACHED. WIDEN STRUCTURE AS SHOWN. REPAIR WINGWALLS AS NECESSARY. INSTALL NEW BEAM TYPE GUARD RAIL.

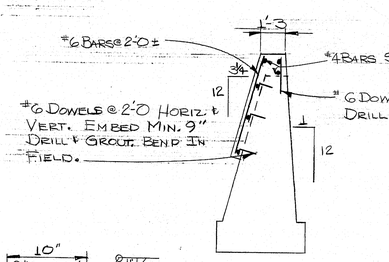
## GENERAL NOTES

1. ALL EXPOSED CONC. EDGES TO BE CHAMFERED ½" UNLESS NOTED.
2. ALL REINFORCING TO HAVE 2" COVER UNLESS NOTED.
3. COVER THE ½" VERT. SLOT BETWEEN SUPERSTRUCTURE & WING W/ 2 LAYERS OF ROOFING FELT (10" WIDE). COAT EACH LAYER & CONC. W/ ROOF CEMENT. RECESS THE AREA ½" BEFORE PLACING CONC.

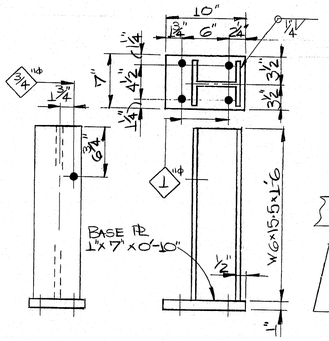



CURB DETAIL

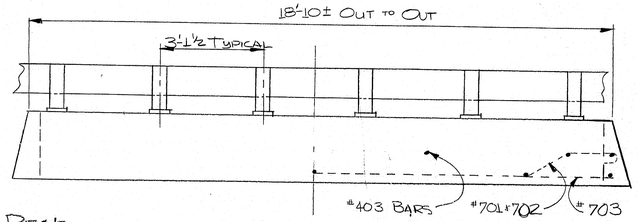
¼" LAYER OF ROOFING FELT @ BRIDGE SEAT (ONE ABUT. ONLY) (DETERMINE IN FIELD.)




VIEW B-B

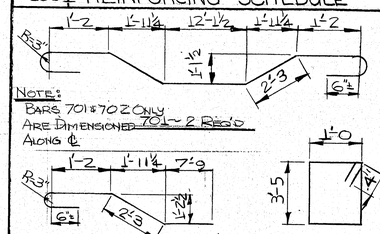



RAIL POST DETAIL ~ 12 REQ'D




SECTION A-A

## #506 REINFORCING SCHEDULE




702 ~ 4 REQ'D. 402 ~ 40 REQ'D.

| MARK | SIZE | NO. | LENGTH | LOCATION |
|---|---|---|---|---|
| 401 | #4 | 4 | 20'-0 | CURB ~ TRIM TO FIT IN FIELD |
| *402 | #4 | 40 | 9'-6 | CURB ~ STIRRUPS |
| 403 | #4 | 22 | 3'-4 | SLAB ~ TRANSVERSE |
| **701 | #7 | 2 | 21'-6 | SLAB ~ CRANK BAR |
| *702 | #7 | 4 | 12'-5 | SLAB ~ CRANK BAR |
| 703 | #7 | 4 | 24'-0 | SLAB ~ TRIM TO FIT IN FIELD |
| field | #4 | 30 | 20'-0 | WINGS ~ CUT TO FIT IN FIELD |
| field | #6 | 25 | 20'-0 | WINGS ~ " " |

* DENOTES BENT BAR
~ ALL DIMENSIONS ARE OUT TO OUT UNLESS NOTED.

EST. WT. REINFORCING: 1,891 lbs.

| MARK | NO. | SHAPE | LENGTH | WT. | REMARKS |
|---|---|---|---|---|---|
| field | 12 | W6x15.5 | 1'-6 | 279 | |
| field | 12 | PL 1"x7" | 0'-10" | 238 | |
| field | 48 | ¾" MACH. BOLTS | 0'-10" | — | GALVANIZE |

EST. WT = 517 lbs.

| PROJECT DESIGN ENGINEER | BY | DATE |
|---|---|---|
| PLANS — DESIGN - DETAILED | | |
| CHECKED | | |
| REVISIONS | | |
| FIELD CHANGES | | |

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

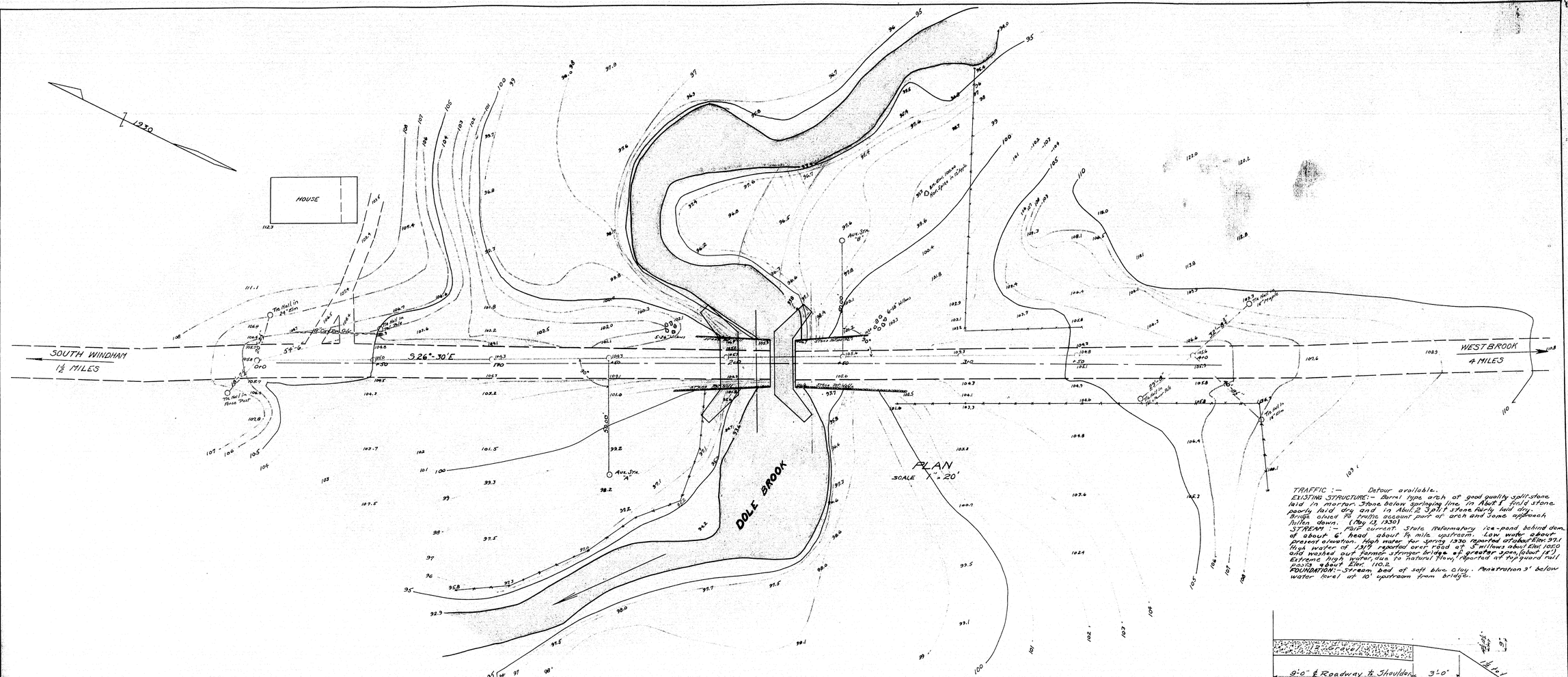
#506

DOLE BROOK BR.
OVER
DOLE BROOK
IN THE TOWN OF
WINDHAM
IN
CUMBERLAND CO.
WIDENING

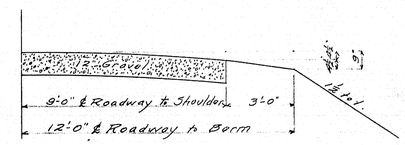
SHEET 1 OF 1 AUGUSTA, MAINE 11/5/81

100-373

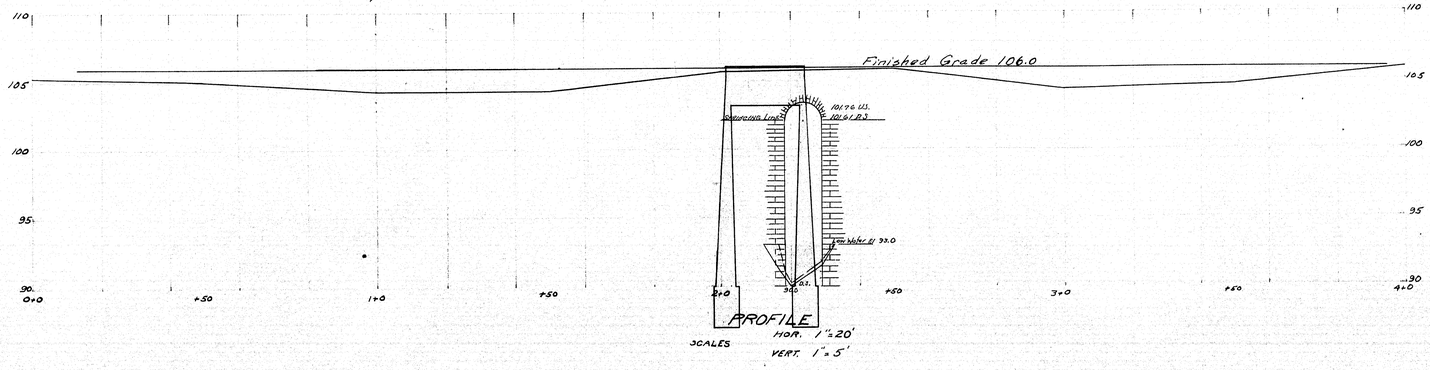
BRUNING 44-122-6270




TRAFFIC :— Detour available.
EXISTING STRUCTURE:— Barrel type arch of good quality split stone laid in mortar. Stone below springing line in Abut. 1 field stone poorly laid dry and in Abut. 2 split stone fairly laid dry. Bridge closed to traffic account part of arch and some approach fallen down. (May 13, 1930)
STREAM :— Fair current. State Reformatory ice-pond behind dam of about 6' head about ¼ mile upstream. Low water about present elevation. High water for spring 1930 reported at about Elev. 97.1 High water of 1917 reported over road at 5 willows about Elev. 105.0 and washed out former stringer bridge of greater span, (about 15') Extreme high water, due to natural flow, reported at top guard rail posts about Elev. 110.2
FOUNDATION:— Stream bed of soft blue clay. Penetration 9' below water level at 10' upstream from bridge.




APPROACH FILL SECTION.

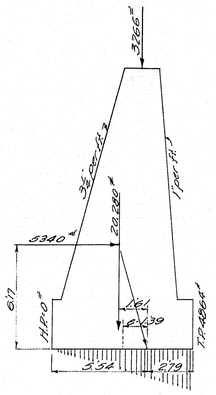



MAINE HIGHWAY COMMISSION
BRIDGE DIVISION
DOLE BROOK BRIDGE
OVER
DOLE BROOK
IN THE TOWN OF
WINDHAM
CUMBERLAND CO.
SURVEY PLAN
SHEET 1 OF 2. AUGUSTA, ME. JUNE 4, 1930

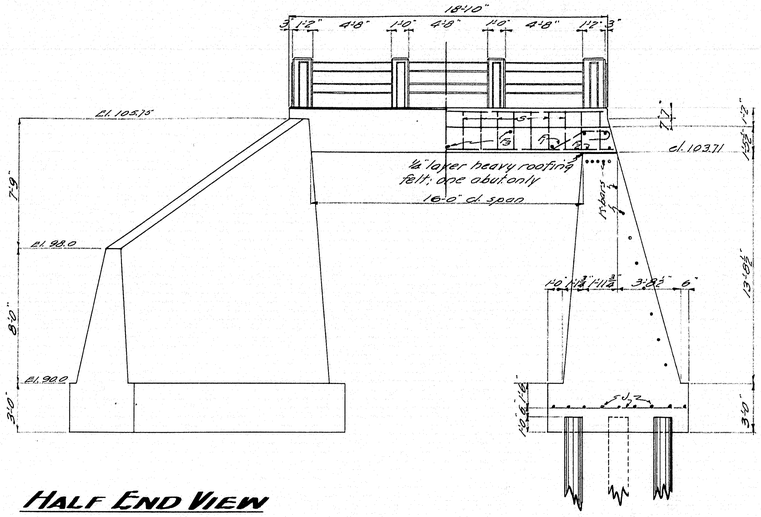
10-107

SURVEYED - BECKMAN
PLOTTED - P. JOHNSON
TRACED - P. JOHNSON

0 1 2 3 4 5 INCHES



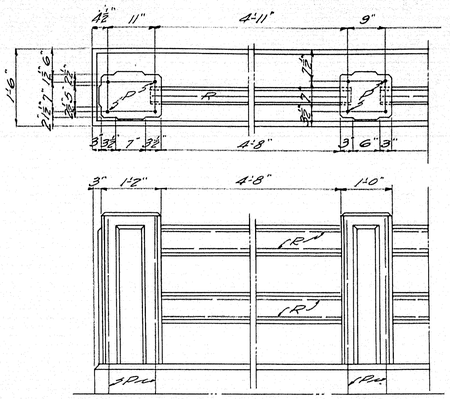

## ABUTMENT ANALYSIS




## HALF END VIEW



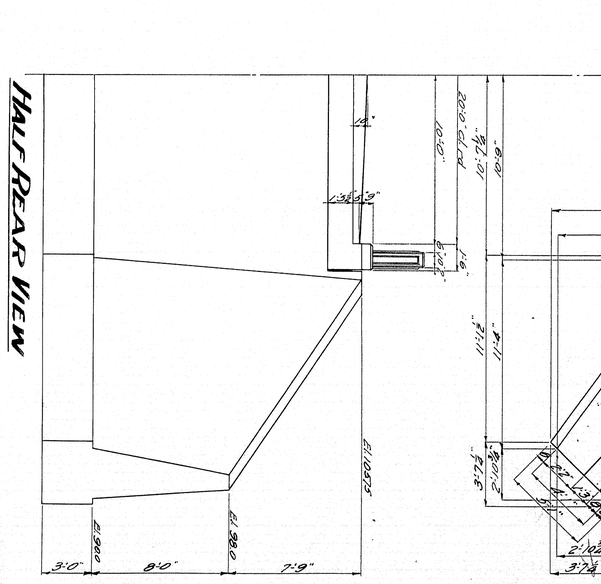
## HALF LONGIT. SECT. SUPER. SECTION ABUTMENT




## RAIL DETAIL

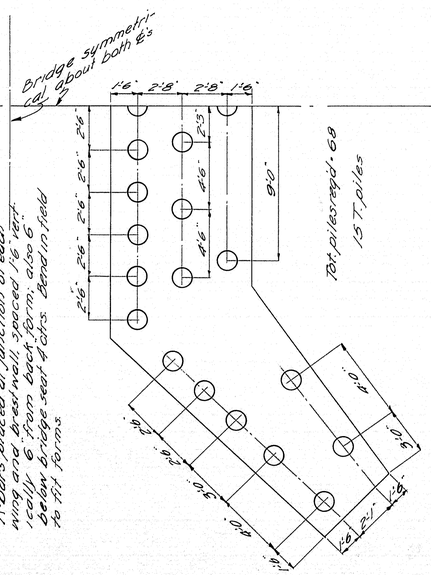
Curb and slab to be cast together. steel for posts to be set in curb. Precast rail bars in lengths of 5'-11". Place rail bars in position with ends projecting into post forms 2½". Wrap ends 6" of each rail with 2 thicknesses of light roofing felt. Fold in ends and after post forms are removed cut away all felt left exposed. Panels on posts to be ½" thick.

All exposed edges of concrete to be chamfered ¾" unless otherwise noted



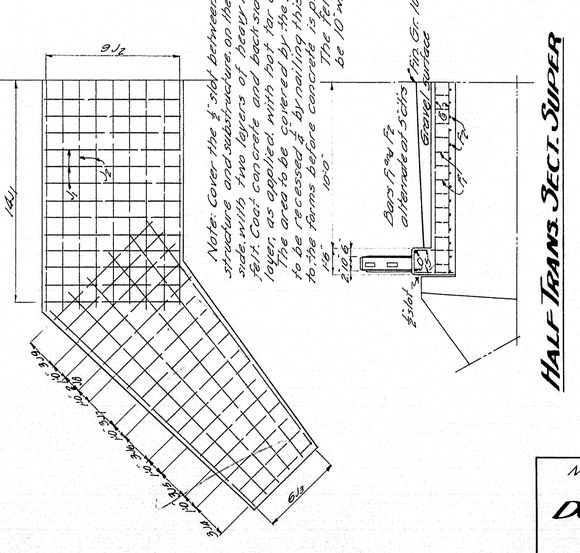

## HALF REAR VIEW

## HALF PLAN ABUTMENT




NOTE
4 bars placed at junction of each wing and breast wall, spaced 1'-6" vertically 6" from back of form; also 6" below bridge seat & 6" from bend in field to fill forms.

## PILE LAYOUT


9½
14½
1'-0"
2'-0"
2'-0"
2