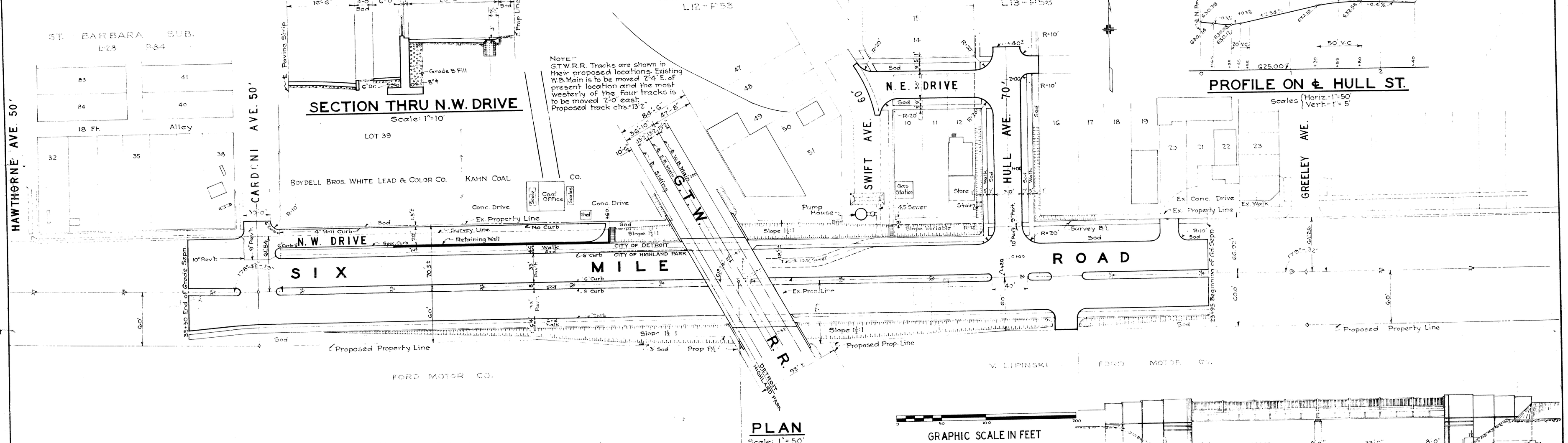
SECTION THRU N.W. DRIVE

Scale: 1"=10'

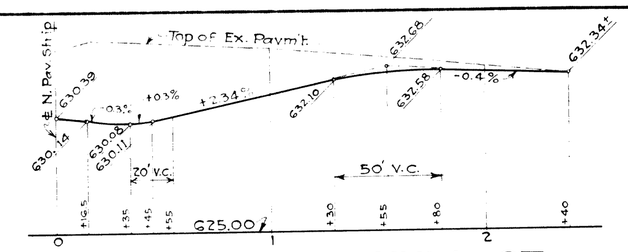
PLAN

Scale: 1"=50'

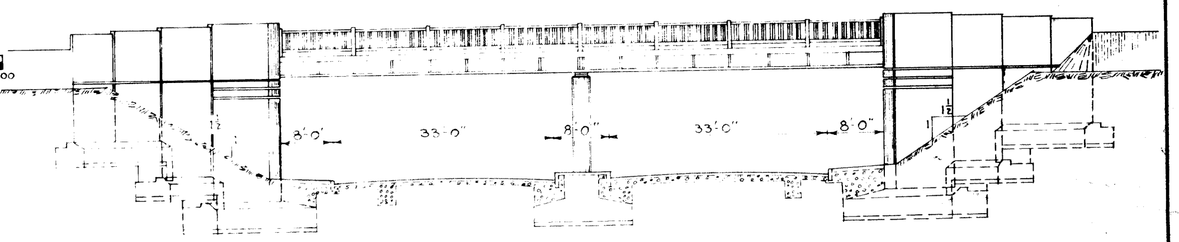


PROFILE ON ℄ HULL ST.

Scales { Horiz.-1"=50'
Vert.-1"=5'



GRAPHIC SCALE IN FEET

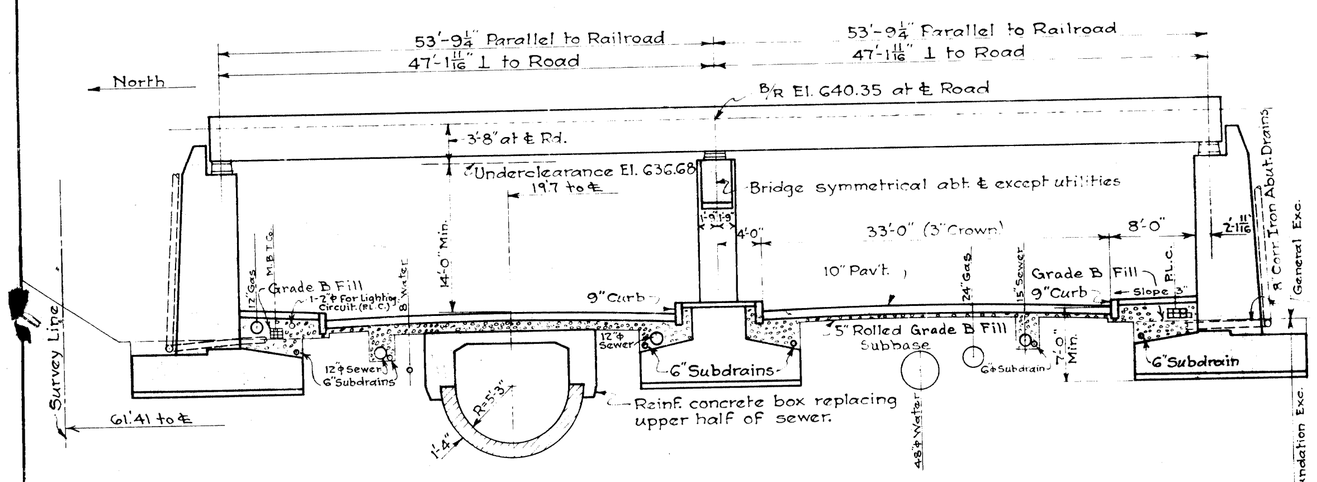


SIDE ELEVATION

Scale: 1"=16'-0"

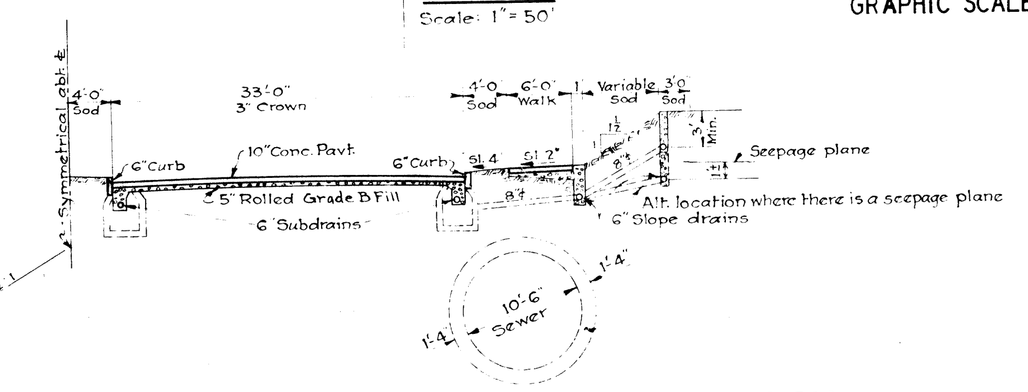
SECTION THRU BRIDGE

Scale: 1"=10'



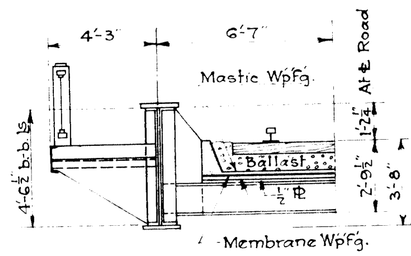
TYPICAL SECTION OF APPROACH

Scale: 1"=10'



SECTION THRU DECK

Scale: ¼"=1'-0"



PROFILE ON ℄ OF PAVING STRIPS

Scales { Horiz.- 1"= 50'
Vert. - 1" = 5'

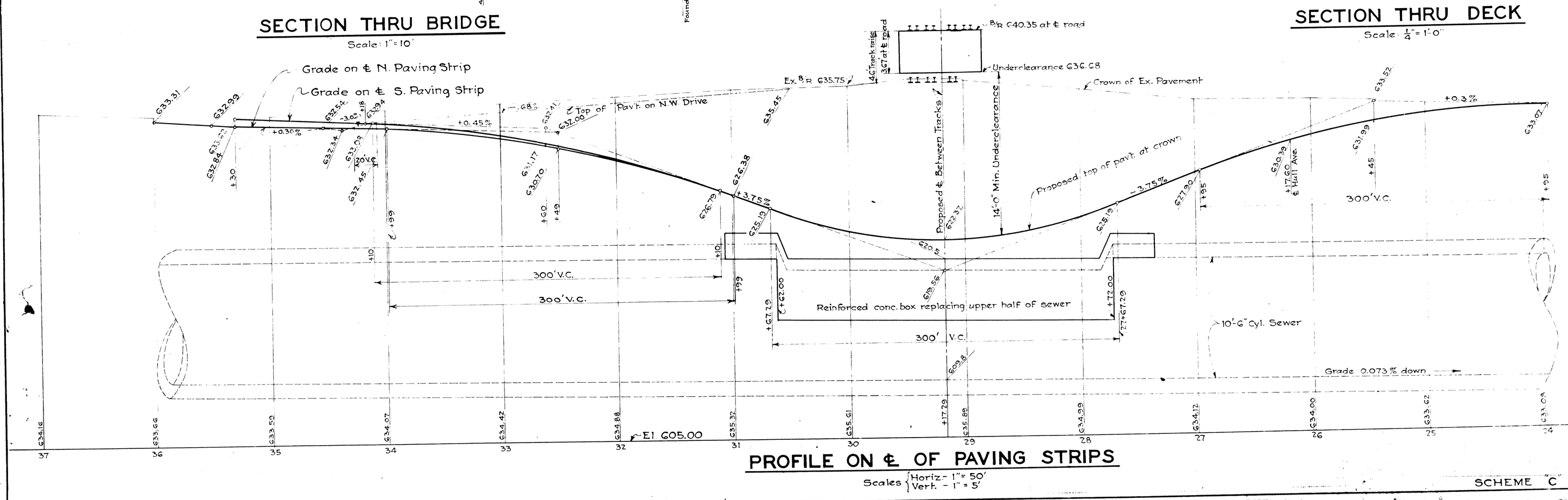


EXHIBIT "A"

Approved by _____
County Highway Engineer

Approved by _____
Chief Engineer - G.T.W.R.R.

Approved by _____
City Engineer - City of Detroit

Approved by _____
City Engineer - City of Highland Park

NOTES:-

Elevs. shown on this sheet are based on Wayne Co. Rd. Comm. Datum.

B.M. "A" - El. 636.851 - Arrow on Fire hydrant - N.W. cor. Cardoni & G Mi. Rd.

B.M. "E" - El. 634.849 - Arrow on Fire hydrant - N.W. cor. Riopelle & G Mi. Rd.

R.R. B.M. #5 - El. 636.416 - Top of bolt, S.W. cor. N.E. Flasher G Mi. Rd. & G.T.W.R.R.

REVISIONS

Redrawn M.K. 8-6-40

Owners Revisions G.T.W. 8-20-40 M.K.

Curb thru bridge & new revised M.K. 10-15-40

Sewer Location & Junction Pit M.K.

B.M. Elev. corrected M.K. 11-1-40

Misc. Revisions M.K. 11-19-40

Profile Elevation B/R & Flasher Base M.K. 12-2-40

JOB No. 554

BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN

JOHN F. BREINING
COMMISSIONER

CHARLES L. WILSON
CHAIRMAN

MICHAEL J. O'BRIEN
VICE-CHAIRMAN

GENERAL DRAWING
SIX MILE ROAD - G.T.W.R.R. HOLLEY DIV. GRADE SEPARATION

DESIGNED BY _____ DRAWN BY J.W.C. & M.K. CHECKED BY F.H.C. & H.W.

DATE 4-1-40 SCALE As Shown CORRECT _____

APPROVED _____ BRIDGE ENGINEER _____ REG. CIV. ENG.

RECOMMENDED _____ COUNTY HIGHWAY ENGINEER _____ REG. CIVIL ENG.

SCHEME "C"

200 10 14 38 THE HENDRICK PUB. CO.

EXHIBIT "A"

Approved by _____ County Highway Engineer

Approved by _____ Chief Engineer G.T.W.R.R.

Approved by _____ City Engineer City of Detroit.

Approved by _____ City Engineer City of Highland Park.

NOTES:-
Elevs. shown on this sheet are based on Wayne Co. Road Comm. Datum.
B.M. "A" - El. 636.851 - Arrow on Fire Hydrant N.W. cor. of Cardoni Ave. & Six Mile Road.
B.M. "E" - El. 634.824 - Arrow on Fire Hydrant N.W. cor. of Rioppelle Ave. & Six Mile Rd.
R.R. B.M. #5 - El. 636.4.6 Top of bolt S.W. cor. of N.E. Flasher Six Mile Rd. & G.T.W. R.R.

REVISIONS
City Limits added 5-2-40 J.W.C. F.H.C.
Top of Pavement Grades 5-9-40 J.W.C. F.H.C.
Paving Strips shown 10-10-40 J.W.C. F.H.C.

JOB No. 554

ISSUE NO. DATE 19

BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN

MICHAEL J. O'BRIEN
COMMISSIONER

JOHN F. BREINING
CHAIRMAN

CHARLES L. WILSON
VICE-CHAIRMAN

GENERAL DRAWING
SIX MILE ROAD - G.T.W. R.R. (HOLLY DIV.) GRADE SEPARATION

DESIGNED BY _____ DRAWN BY J.W.C. CHECKED BY F.H.C.
DATE April 1-40 SCALE As shown CORRECT _____ CHIEF DESIGNER
APPROVED _____ BRIDGE ENG. ASST. _____ REG. CIV. ENG.
APPROVED _____ COUNTY HIGHWAY ENGINEER _____ REG. CIVIL ENG.

SHEET NO. -C

SCHEME "C"

200 10-14-38 THE FREDERICK POST CO.

ST. BARBARA SUB. L-28 P-84

JEROME PARK SUB. L-12 P-65

OAKLAND AVE. | CAMERON AVE. 50' | HAWTHORNE AVE. 50' | CARDONI AVE. 50' | SWIFT AVE. | HULL AVE. 70' WD.

ALLEY 18' WD.

SIX MILE ROAD

CITY OF DETROIT / CITY OF HIGHLAND PARK

LOT 39 Baydell Bros. White Lead & Color Co.

KAHN COAL CO.

Louis Kahn

FORD MOTOR CO.

PALMER COAL & COKE CO.

G.T.W. R.R.

Survey Line

Section Line

Cyclone fence

Board Walk

Asphalt Pavt. on Conc. Base

Test Hole #1 thru #5

F. rd Mon.

Cone. Mon.

Curb cut

Traffic Sig.

Police & Fire Alarm Box

Conc. Drive

Conc. Bk. Garage

Conc. Bk. Cottage

Gas Sta.

Coal Office

Coal Piles

Scale Pit

Shed

Concrete

Dwelling

Factory

Store

Garage

Car Hoist

Farmer Bar

Nick Rudisch

Mfg'g. Asst. Brick of Detroit

Harry Westman

Ezra Bishop & Ella Wt.

Joe Sherman, Single

Albert Kahn & Ernestine Wt. and Louis Kahn & Beryl Wt.

Sullivan & Jerchen & Walker Bros.

Harold Sullivan & Mary Darling

Sol. & Margaret McDonald

Sardian Dep. Corp.

Scully Pike

Henry Stechberg & Minnie Stechberg

Robert M. Johnson

Oil Drum

Trash

Mail Box

Fence Gate

Wood Fence

Asph.

Conc.

Brick

Frame

Asphalt

Gravel

Coal Piles

Coal Office

Scale Pit

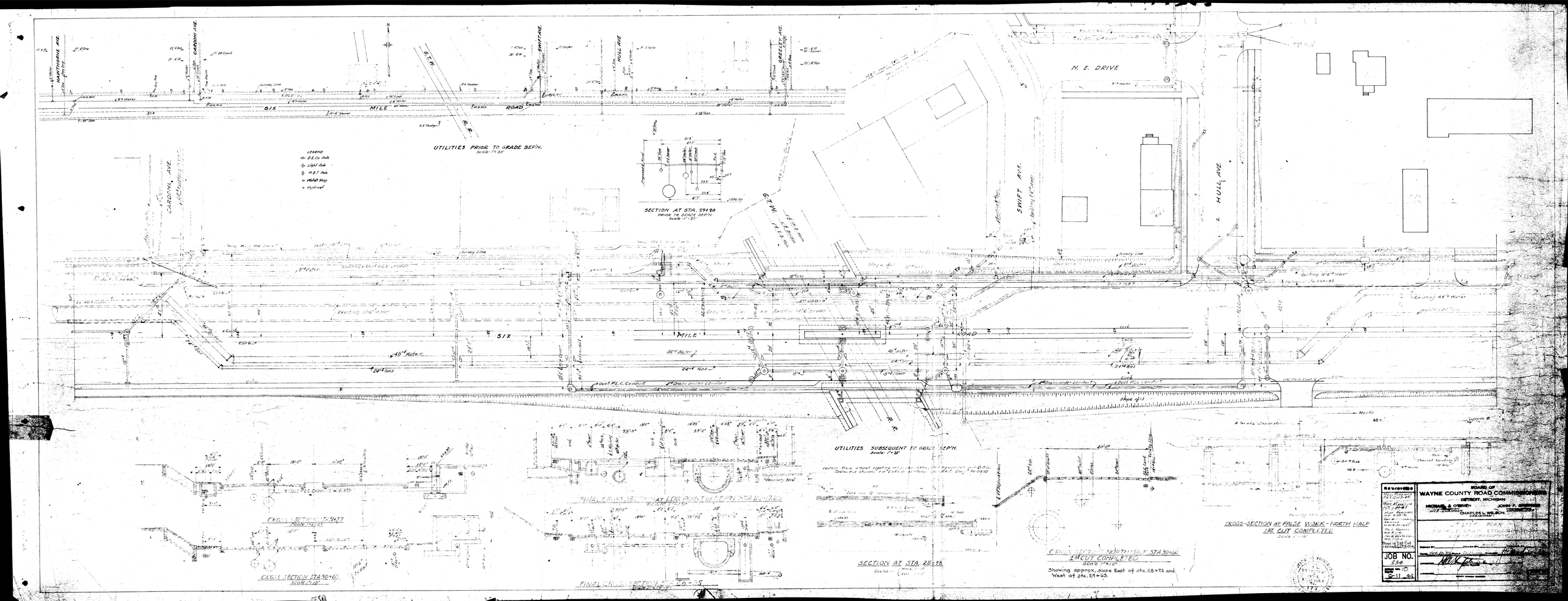
Shed

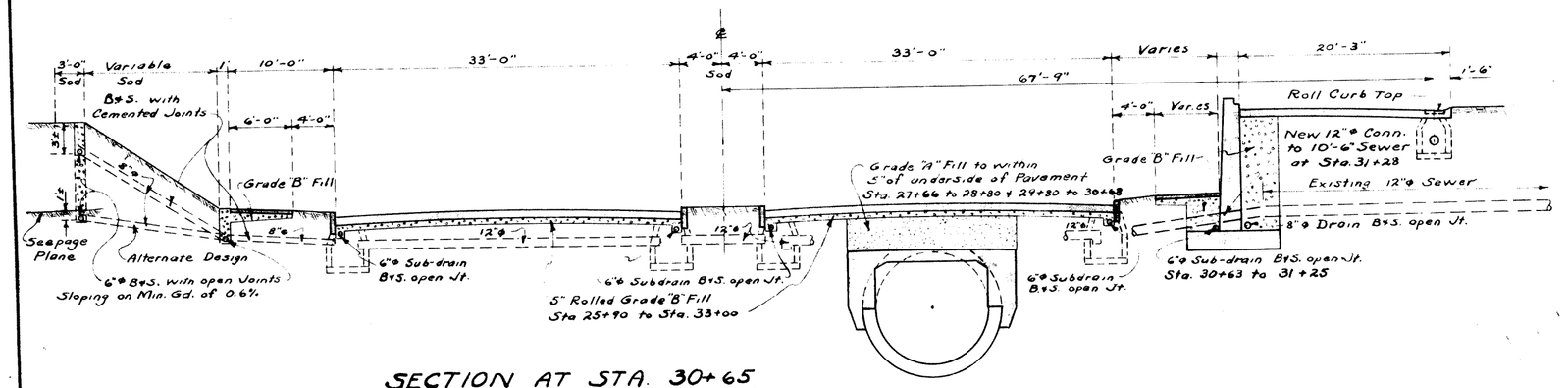
Garage

Dwelling

Factory

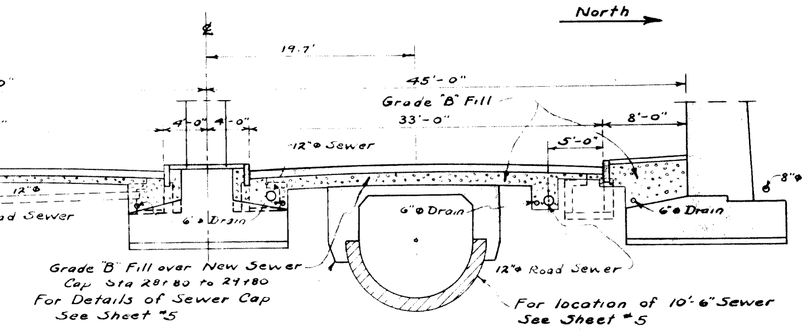
Store


MANTHORNE AVE.
CARDONI AVE.
SHIFT AVE.
HULL AVE.
GRESLEY AVE.
G.T.W. R.R.
SIX MILE ROAD
N. E. DRIVE
LEGEND
D.E.Co. Pole
Light Pole
M.B.T. Pole
Metal Stop
Hydrant
UTILITIES PRIOR TO GRADE SEPTH.
Scale: 1"=30'
SECTION AT STA. 29+20
PRIOR TO GRADE SEPTH.
Scale: 1"=2'
UTILITIES SUBSEQUENT TO GRADE SEPTH.
Scale: 1"=30'
CROSS SECTION STA 30+40
Scale 1"=10'
FINAL CROSS SECTION AT LOW POINT OF SEPTH STABILIZED
Scale 1"=10'
SECTION AT STA. 25+70
Scale 1"=10'
CROSS SECTION NORTH HALF STA 30+00
1ST CUT COMPLETED
Scale 1"=10'
Showing approx. slope East of sta. 28+73 and West of sta. 27+60.
CROSS-SECTION AT FALSE WORK-NORTH HALF
1ST CUT COMPLETED
Scale 1"=10'
BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN
MICHAEL A. O'BRIEN
JOHN P. WOODCOCK
CHARLES L. WILSON
PLAN
JOB NO. 534
C-11-41



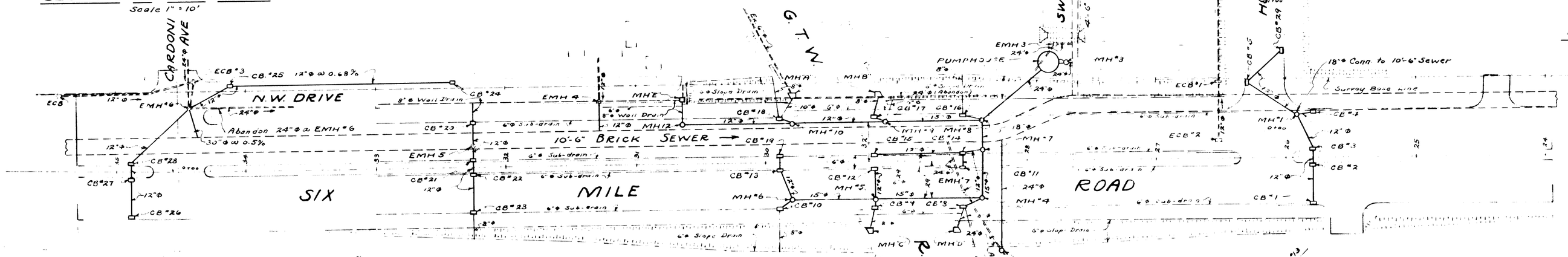
SECTION AT STA. 30+65

Scale 1" = 10'



SECTION AT STA. 29+10

Scale 1" = 10'-0"

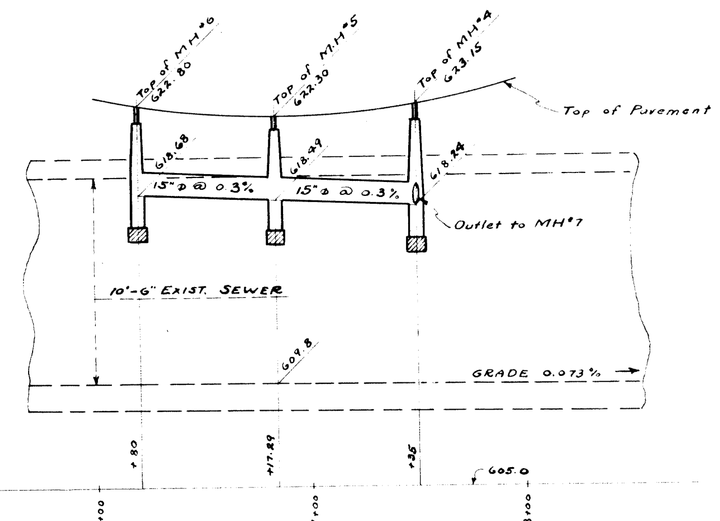


PLAN

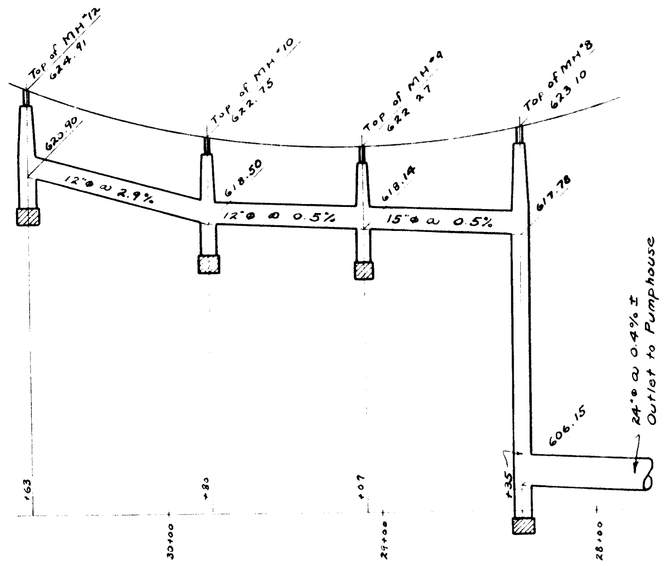
Scale 1" = 50'

LEGEND

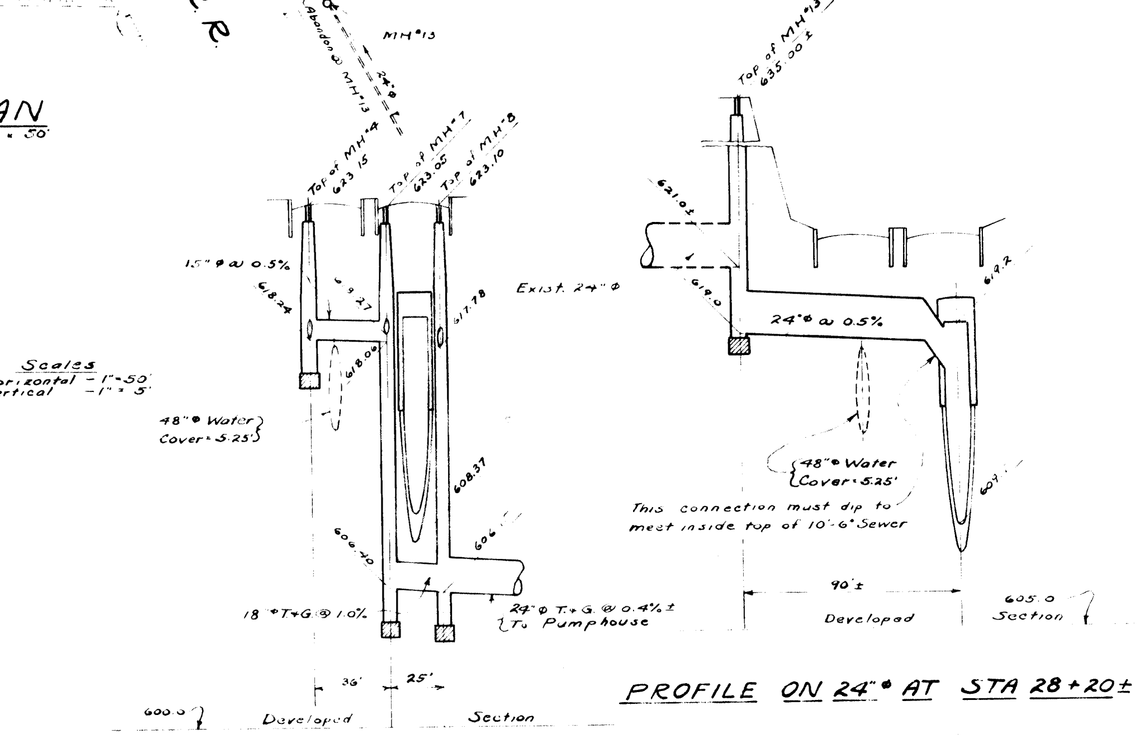
Existing Manhole	EMH
Proposed "	MH
Existing Catch Basin	ECB
Proposed "	CB
Existing Sewer	
Prospposed "	
Sub-drain	



PROFILE ℄ OF SEWER MH "6 TO MH "4

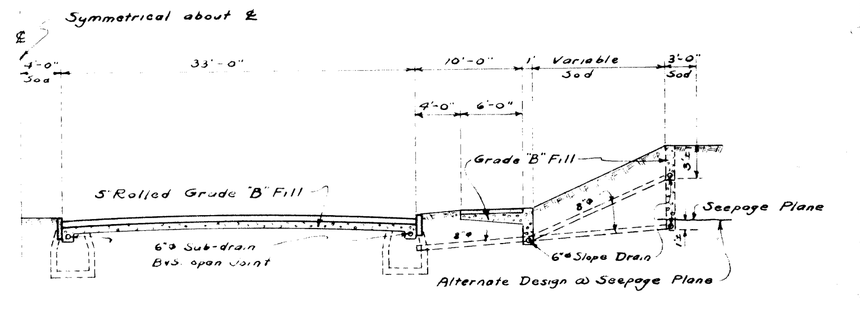


PROFILE ℄ OF SEWER MH "12 TO MH "8



PROFILE ON 24"ø AT STA 28+20±

PROFILE ℄ OF SEWER MH "4 TO MH "8



TYPICAL HALF-SECTION OF APPROACH

Scale: - 1" = 10'-0"

STRUCTURE LIST

Drainage Structure	Station	Elev. of Top	Elev. of Outlet Inv.	Stand. Sheet No.	"a"	Remarks
EMH "3	27+78					Abandon & Plug Outlet
EMH "4	31+28					Remove & Plug Outlet
EMH "5	32+26	630.4	610.0			Reset Top
EMH "6	34+45	632.5±	617.3±			Reset Top
EMH "7	28+50					Remove
MH "1	25+93	630.90	620.1	S-3d	10.8	Tap 10'-6" Sewer
MH "2	N.E. Drive 0+48	633.0±	As found	S-3d		Build up Exist. 15"ø Sewer
MH "3	27+68.84	634.22	618.20	S-3e	16.00	See Sheet "6
MH "4	28+35	623.15	618.24	S-3e	4.91	
MH "5	29+17.29	622.30	618.49	S-3c	3.81	
MH "6	29+80	622.80	618.68	S-3e	4.12	
MH "7	28+35	623.03	606.90	S-3c	16.15	
MH "8	28+35	623.10	606.15	S-3c	16.95	
MH "9	29+07	622.27	618.14	S-3e	4.13	
MH "10	29+80	622.75	618.50	S-3e	4.25	
MH "12	30+63	624.91	620.90	S-3e	4.01	
MH "13	28+20	635.0±	619.0	S-3d	16.0	Ford Co. Sewer
				Plug	Existing	24"ø Outlet
ECB "1	26+52				Remove &	Plug Outlet
ECB "2	26+51				"	"
ECB "3	34+40±					Place New M.H. Top
CB "1	25+80	631.1±	627.85	S-3f	3.25	Without Trap
CB "2	25+80	631.2±	627.68	S-3f	3.52	" "
CB "3	25+80	631.2±	627.63	S-3f	3.57	
CB "4	25+80	631.1±	627.85	S-3f	3.25	
CB "5	Hull Ave. 0+28	629.8±	626.55	S-3c	3.25	
CB "6	N.E. Drive 0+49	632.3±	629.05	S-3b	3.25	

STRUCTURE LIST

Drainage Structure	Station	Elev. of Top	Elev. of Outlet Inv.	Stand. Sheet No.	"a"	Remarks
CB "7	N.E. Drive 0+48	632.3±	628.9	S-3c	3.40	
CB "8	28+30	622.49	618.9	S-3b	4.29	
CB "9	29+17.29	622.12	618.60	S-3f	3.32	Without Trap
CB "10	29+90	622.79	619.54	S-3b	3.25	
CB "11	28+50	622.69	618.9	S-3b	4.29	
CB "12	29+17.29	622.12	619.54	S-3c	2.58	
CB "13	29+90	622.79	618.73	S-3b	4.04	
CB "14	28+50	622.69	618.35	S-3b	4.34	
CB "15	29+17.29	622.12	619.54	S-3c	2.58	
CB "16	28+50	622.69	619.44	S-3b	3.25	
CB "17	29+17.29	622.12	618.25	S-3f	3.87	Without Trap
CB "18	29+90	622.79	618.6	S-3b	4.19	
CB "19	29+90	622.79	618.78	S-3b	4.01	
CB "20	32+25	630.12	626.87	S-3f	3.25	
CB "21	32+25	630.12	626.65	S-3f	3.47	
CB "22	32+25	630.12	626.70	S-3f	3.42	Without Trap
CB "23	32+25	630.12	626.87	S-3f	3.25	" "
CB "24	N.W. Drive 32+90	633.84	630.64	S-3b	3.25	Roll Curb Castings
CB "25	N.W. Drive 34+22±	632.5±	629.25	S-3c	3.25	Roll Curb Castings
CB "26	34+90	633.2±	629.95	S-3b	3.25	
CB "27	34+90	633.1±	629.78	S-3b	3.32	
CB "28	34+90	632.7±	629.45	S-3c	3.25	
CB "29	Hull Ave. 0+68	630.6±	627.35	S-3b	3.25	

See S.H.D. Std. E-4-A-27c

QUANTITIES

30"ø Reinf. Concrete Culvert Pipe (Bell + Spigot)	25	Lin. Ft.
18"ø " " " " (Tongue + Groove)	35	" "
12"ø " " " " (Bell + Spigot)	180	" "
15"ø " " " " (Bell + Spigot)	250	" "
8"ø Std. Sewer Pipe Connection to Slope Drains (B+S)	140	" "
8"ø " " " " " Retaining Wall Drains (B+S)	25	
8"ø " " " Back of Retaining Wall (B+S)	270	" "
6"ø " " " Subdrain under Pavement	2120	" "
6"ø " " " " on Pier Footings	260	" "
6"ø " " " " Abut. "	160	" "
6"ø " " " " Ret. Wall Ftg.	60	" "
6"ø " " " " in Sewer Trench "	375	" "
6"ø " " " Slope Drains (B+S)	1975	" "
Manholes	12	
Catch Basins	29	
24"ø Reinf. Concrete Culvert Pipe (Tongue + Groove)	65	Lin. Ft.
24"ø " " " " (Bell + Spigot)	75	" "
Cast Iron Traps	1	

NOTES

Specifications:- Board of Wayne County Road Commissioners General Specifications dated May 1st 1940 and Supplementary Specifications for Job "554

Subdrains:- Shall be laid in the trenches of all main Sewers where gravel Sub-base is called for; Sta 25+90 to 33+00. Subdrains shall be connected to the drainage system at their lower ends only.

Slope Drains:- Quantities are approximate only and cannot be determined accurately until general Cut is made.

Trench Backfill:- Shall conform with Section 106 of the General Specifications. Where Sewers and Subdrains occur in the same trench, backfill shall be special fill material - Grade 'B'.

The corrugated iron abutment drains within the limits of the footings and the connections from the Abut. manholes to the roadway catch Basins are Shown on the masonry plans and are a part of the Bridge Contract.

Manholes A, B, C & D behind Abutments are included in the bridge construction. Manhole E behind retaining wall is included in Wall Construction.

For Pump House Details see Sheet "6

Castings for all Drainage Structures to be furnished by the Board.

For Quantities in Manholes & Catch Basins, other than those built with Abuts. and walls, see Standard Structure Sheets.

REVISIONS
Misc. Revisions H.W. 3-2-41 G.J.P.
Misc. Revisions H.W. 5-9-41 G.J.P.

JOB No. 554

ISSUED (W.O.) DATE 194

BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN

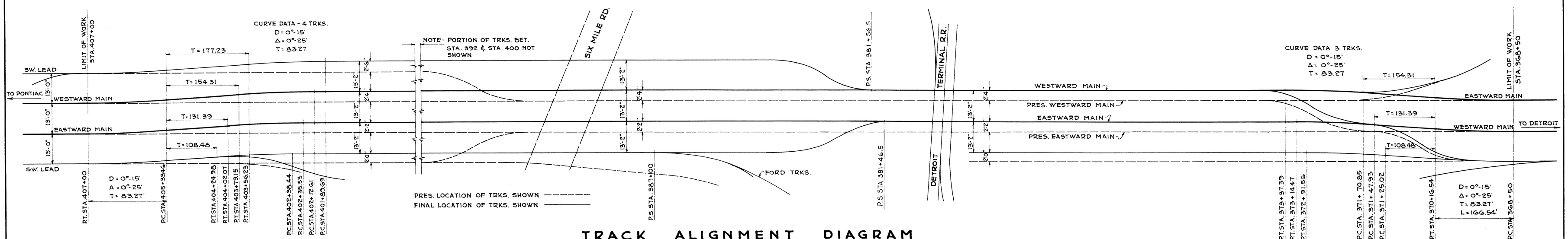
MICHAEL J. O'BRIEN, VICE-CHAIRMAN
JOHN F. BREINING, COMMISSIONER
CHARLES L. WILSON, CHAIRMAN

DRAINAGE PLAN
SIX MILE RD. ~ G.T.W.R.R. HOLLEY DIVISION
GRADE SEPARATION

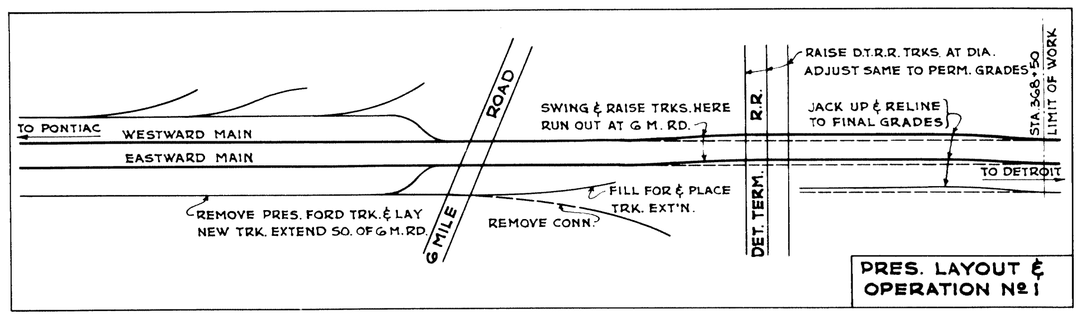
DESIGNED BY — DRAWN BY H.W. CHECKED BY G.J.P.
DATE 12-20-40 SCALE As Shown CORRECT — CHIEF DESIGNER
RECOMMENDED — REG. CIV. ENG.
APPROVED — COUNTY HIGHWAY ENGINEER — REG. CIVIL ENG.

SHEET NO. 4

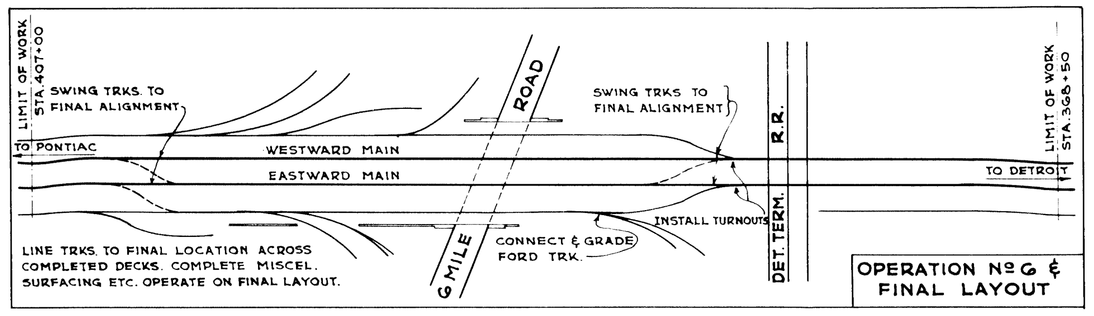
200 10.14.38 THE FREDERICK POST CO.



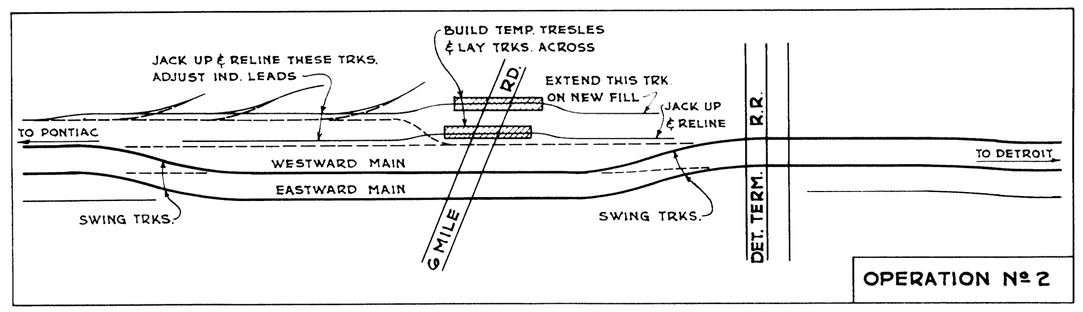
TRACK ALIGNMENT DIAGRAM



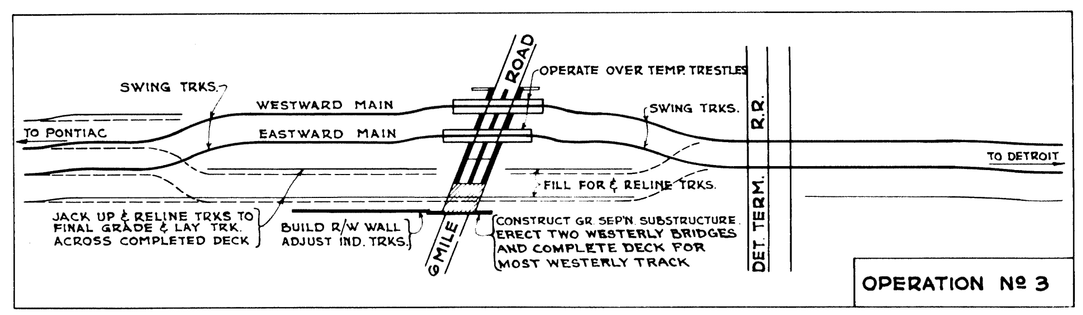
PRES. LAYOUT & OPERATION Nº 1



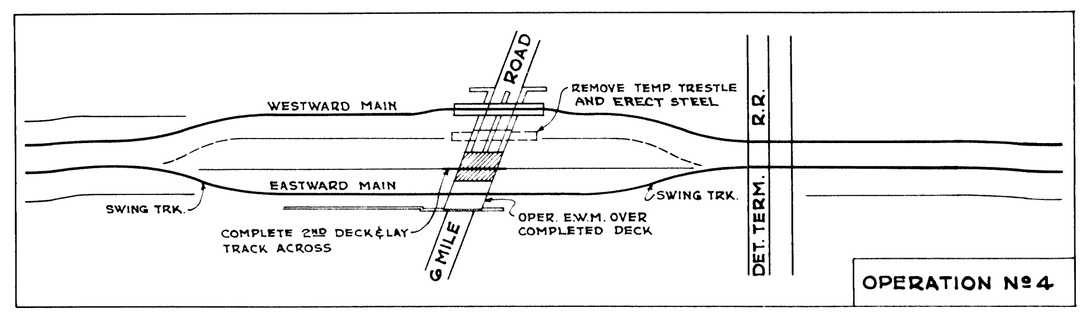
OPERATION Nº G & FINAL LAYOUT



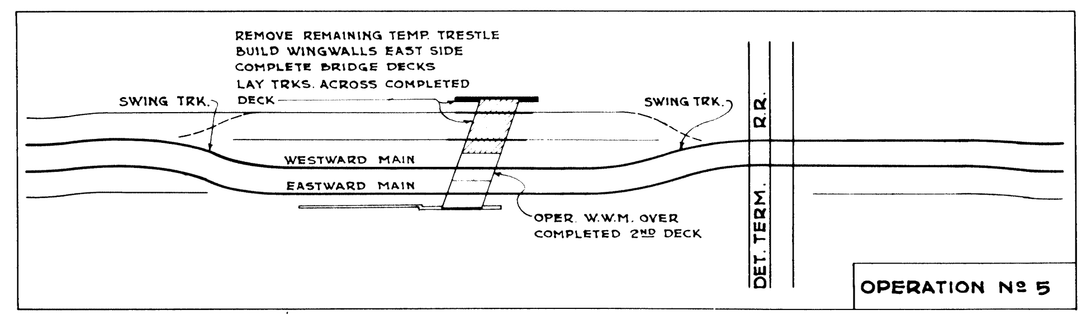
OPERATION Nº 2



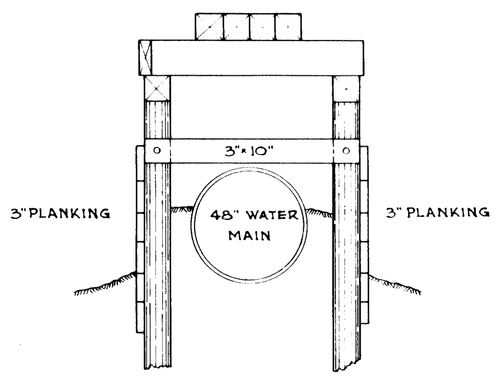
OPERATION Nº 3



OPERATION Nº 4



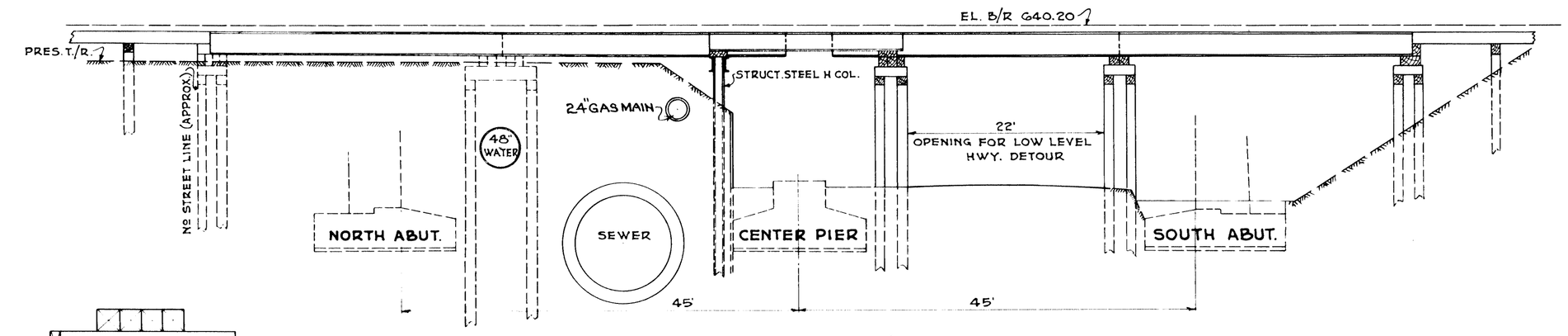
OPERATION Nº 5



ALT. FOR BRACING BENT Nº 5

TO BE USED IF 48" WATER MAIN IS STILL IN SERVICE AT TIME OF EXCAVATION

SCALE 1/4" = 1'-0"



SECTION AT RT. ANGLE TO ℄ STREET

SHOWING HWY. DETOURS OVER & UNDER R.R. TRESTLE

SCALE 1" = 10'

ISSUE NO. DATE

GRAND TRUNK WESTERN RAILROAD

SIX MILE ROAD GRADE SEPARATION

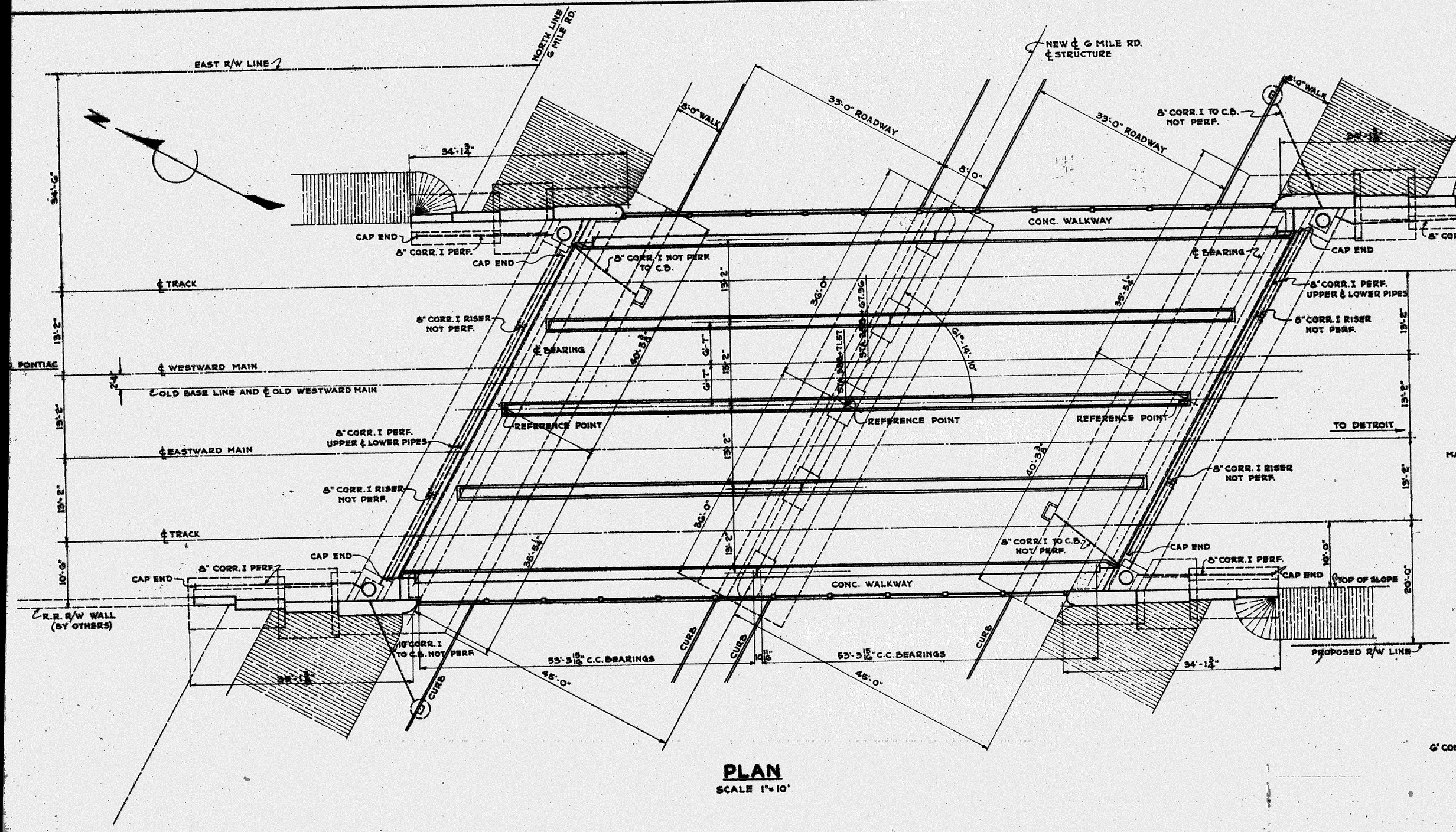
HIGHLAND PARK - DETROIT

WAYNE COUNTY, MICH.

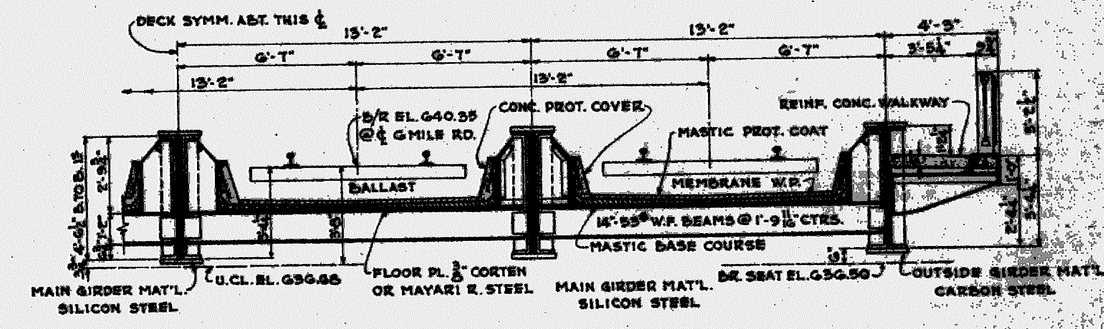
OPER. SCHEDULE - TRK. LAYOUTS & SECTIONS

SCALES AS SHOWN

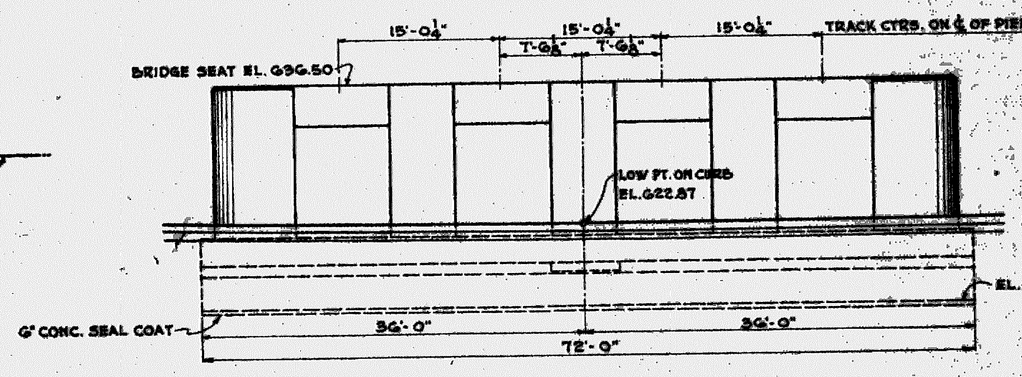
DR. M.J.B. TR. L.E.B. CH. T.H.J.	OFFICE OF CHIEF ENGINEER DETROIT, MICHIGAN MAR. 12, 1941	JOURNAL Nº W-6345 FILE



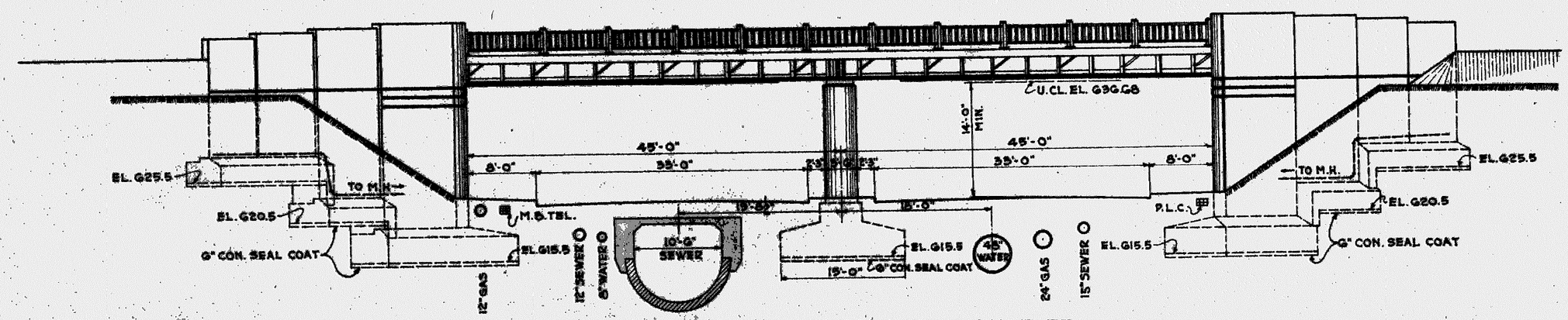
PLAN
SCALE 1" = 10'



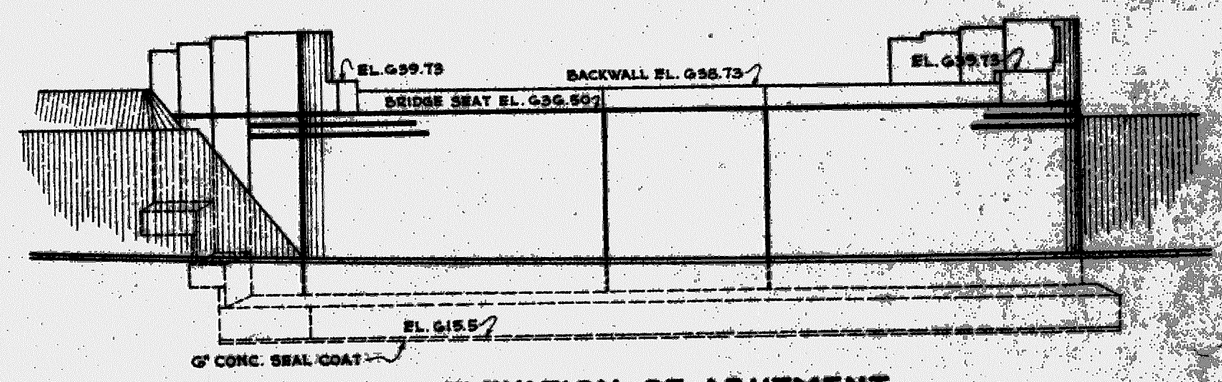
HALF SECTION THRU DECK
SCALE ¼" = 1'-0"



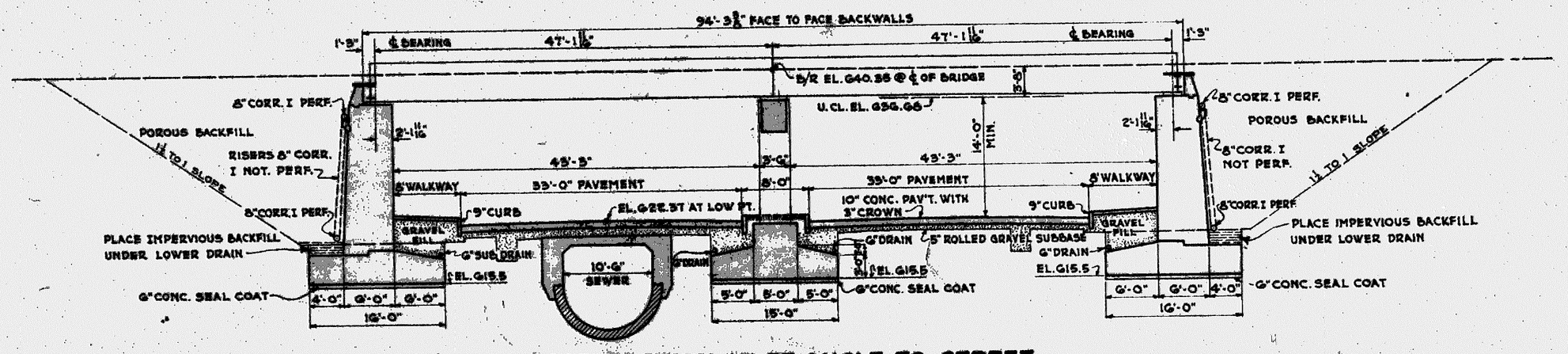
ELEVATION OF PIER
SCALE 1" = 10'



ELEVATION AT RT. ANGLE TO G MILE RD.
SCALE 1" = 10'



ELEVATION OF ABUTMENT
SCALE 1" = 10'



CROSS SECTION AT RT. ANGLE TO STREET
SCALE 1" = 10'

GRAND TRUNK WESTERN RAILROAD
SIX MILE ROAD GRADE SEPARATION
HIGHLAND PARK - DETROIT
WAYNE COUNTY, MICH.

GENERAL PLAN & SECTIONS
SCALES AS SHOWN

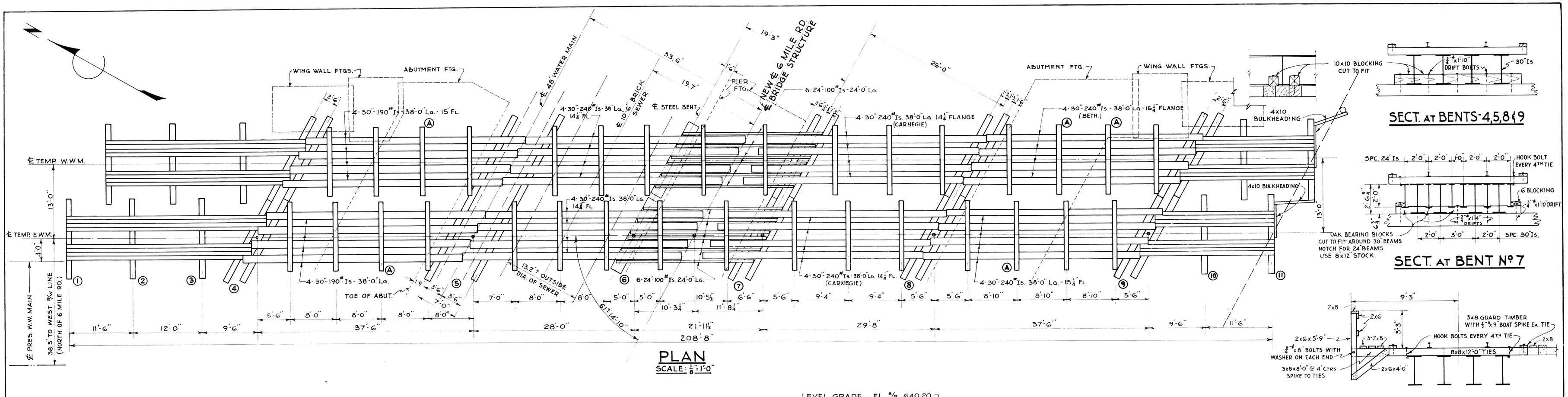
DR. M.J.S.
TR. L.E.S.
CH. R.E.M.

OFFICE OF CHIEF ENGINEER
DETROIT, MICHIGAN.
FEB. 28, 1941

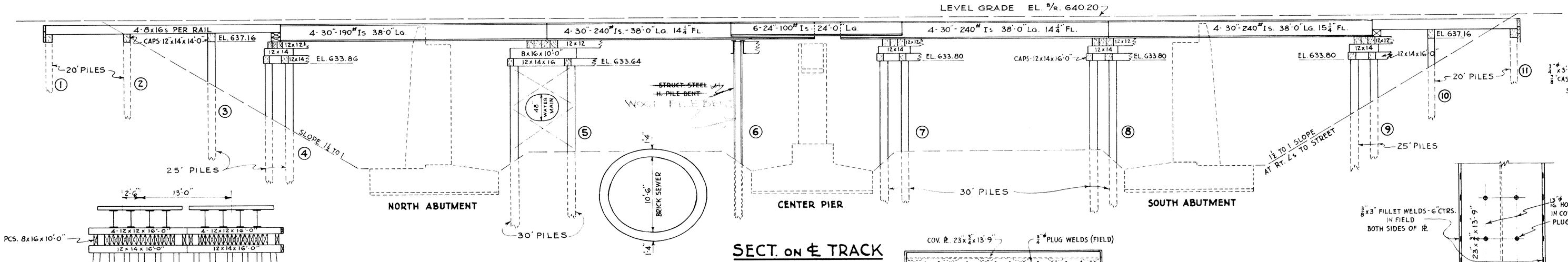
JOURNAL NO. W- CONS. FILE

ISSUE No 3 DATE 6/11/41

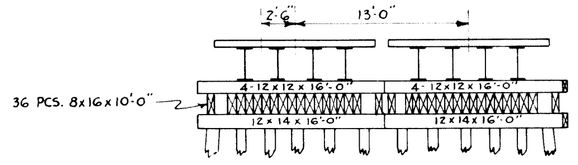
SHEET 03 OF 16 SHEETS



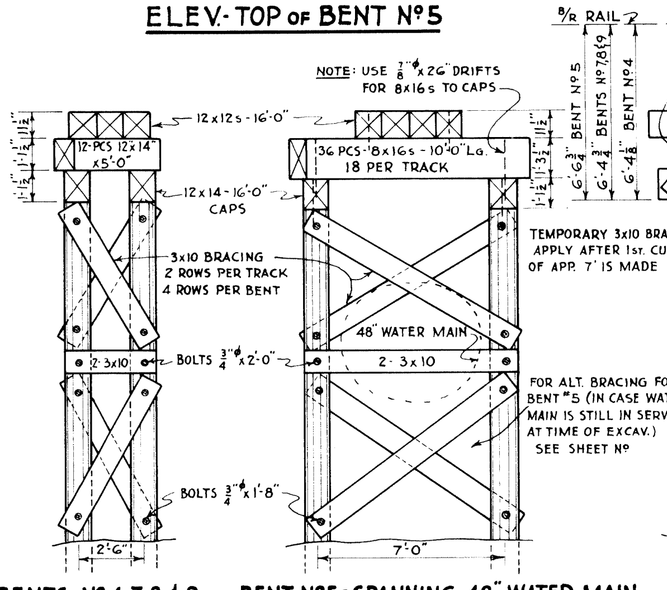
PLAN
SCALE: 1" = 10'0"



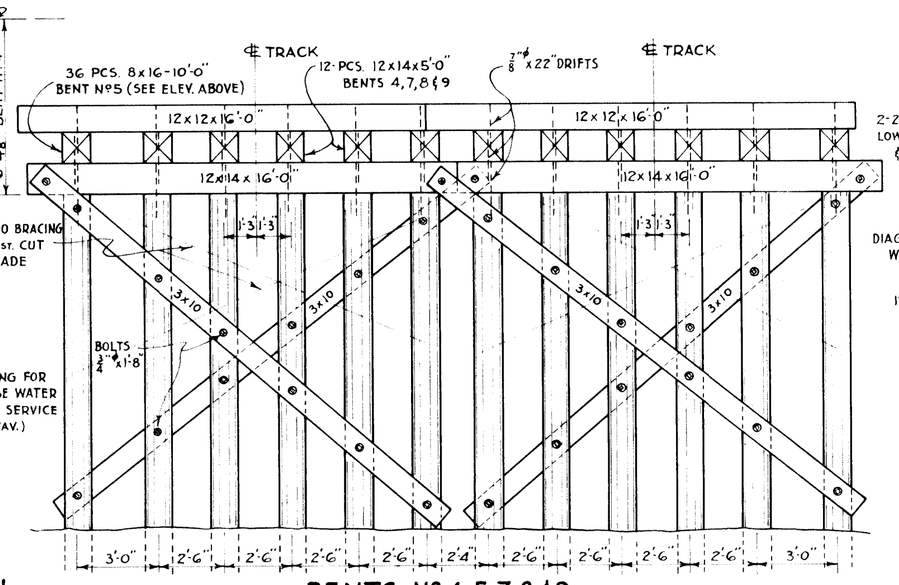
SECT. on ℄ TRACK



ELEV. TOP OF BENT Nº5

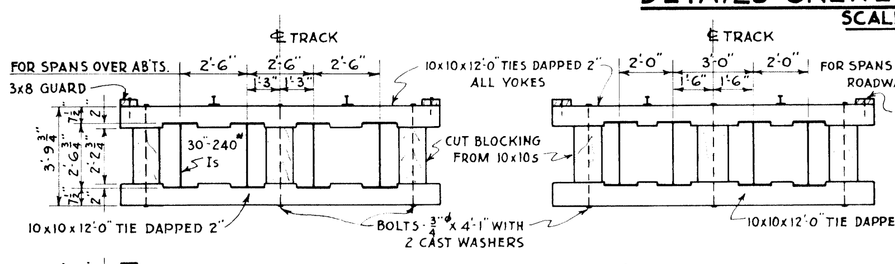


BENTS Nº 4,7,8 & 9 — BENT Nº5 - SPANNING 48" WATER MAIN

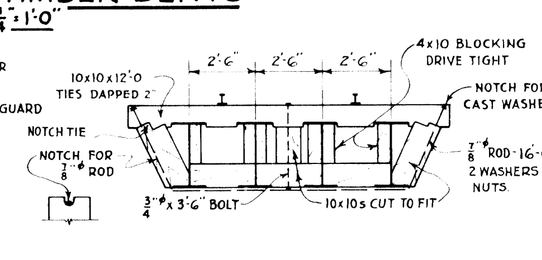


BENTS Nº 4,5,7,8 & 9

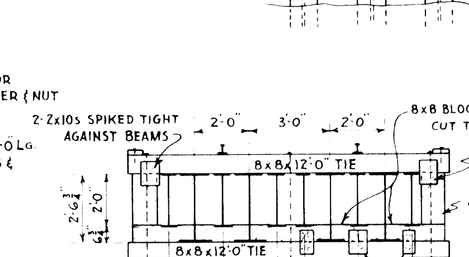
DETAILS - SKEWED TIMBER BENTS
SCALE: ¼" = 1'0"



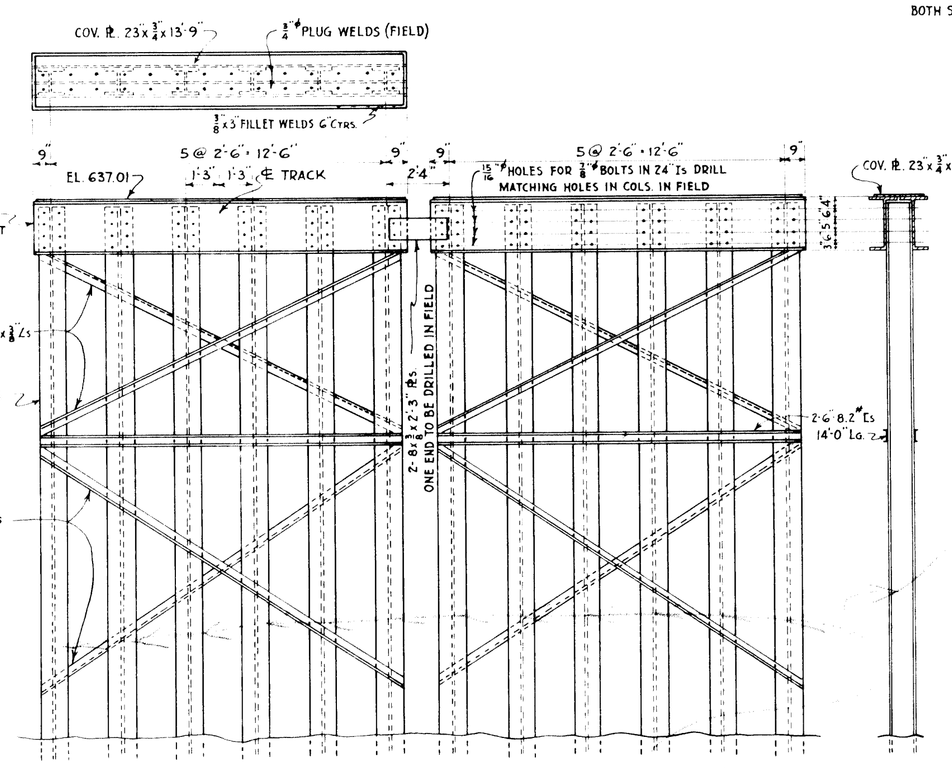
YOKE DETAILS FOR 30" BEAMS
SCALE: ¼" = 1'0"



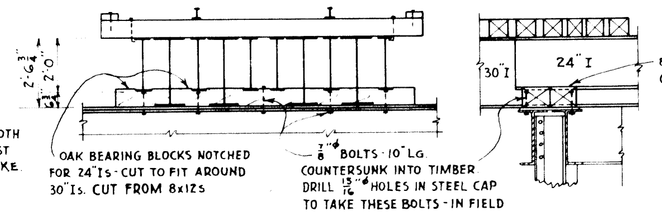
DETAIL YOKE "A" - 5 REQ'D.



YOKES FOR CENTER SPAN
4-REQ'D.



DETAILS - BENT Nº6
SCALE: ¼" = 1'0"

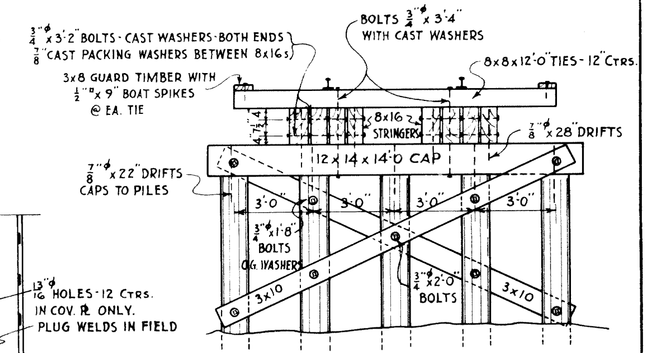


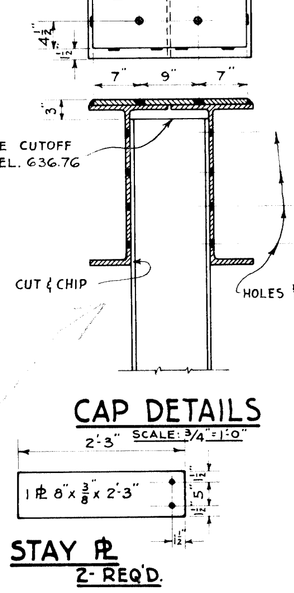
SECTIONS AT BENT Nº6
BEAM SPACING SAME AS BENT Nº7

SECT. AT BENTS-4,5,8&9

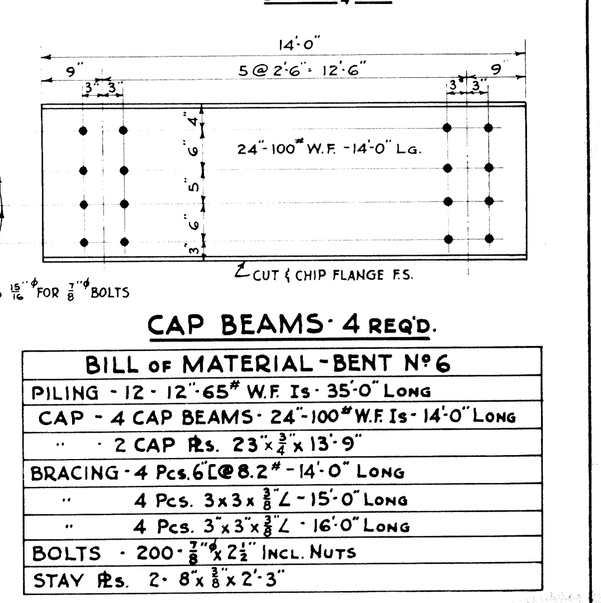
SECT. AT BENT Nº 7

WALKWAY DETAILS
PROVIDE WALKWAY FOR EACH TRACK



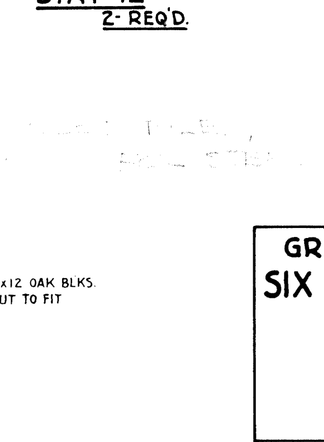


DETAILS - BENTS-1,2,3,10, & 11
SCALE: ¼" = 1'0"



CAP BEAMS - 4 REQ'D.

BILL OF MATERIAL - BENT Nº6
PILING - 12 - 12"-65" W.F. Is - 35'0" Long
CAP - 4 CAP BEAMS - 24"-100" W.F. Is - 14'0" Long
" - 2 CAP Pls. 23"x¾"x13'9"
BRACING - 4 Pcs. 6 L@ 8.2" - 14'0" Long
" 4 Pcs. 3x3x⅜ ∠ - 15'0" Long
" 4 Pcs. 3"x3"x⅜ ∠ - 16'0" Long
BOLTS - 200 - ⅞"ø x 2½" Incl. Nuts
STAY Pls. 2 - 8"x⅜"x2'3"



CAP DETAILS

STAY PL
2-REQ'D.

ALL WORK THIS SHEET BY R.R. CO.

GRAND TRUNK WESTERN RAILROAD

SIX MILE ROAD GRADE SEPARATION

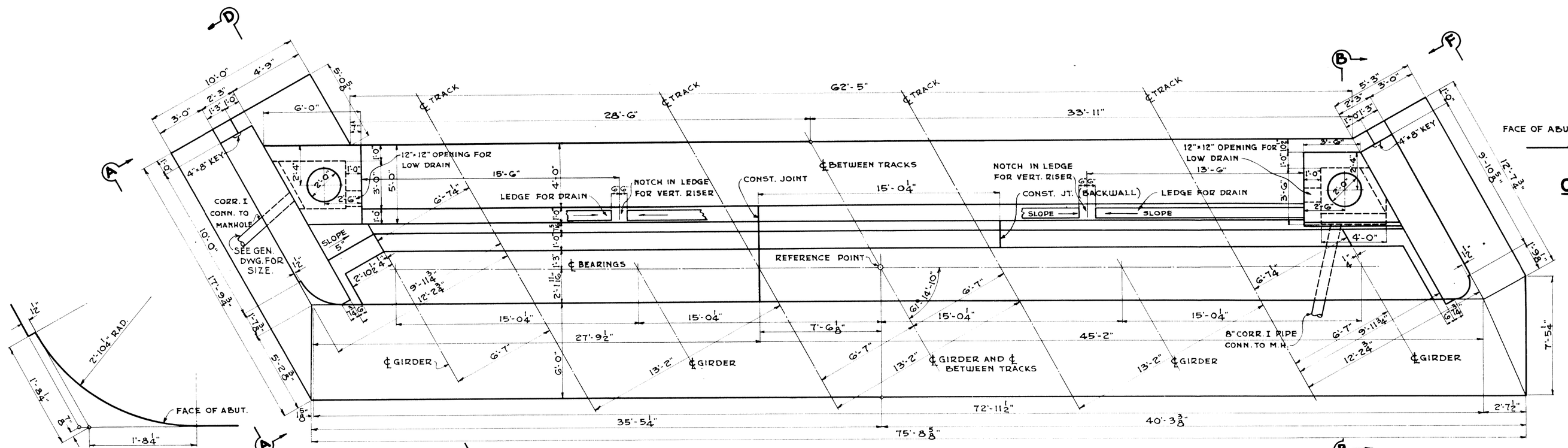
HIGHLAND PARK - DETROIT
WAYNE COUNTY, MICH.

TEMPORARY TRESTLES

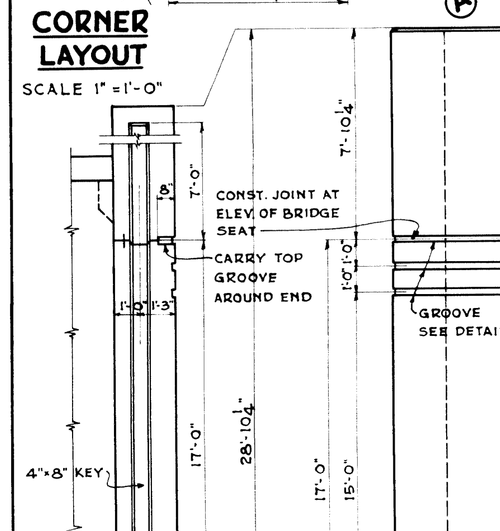
SCALES AS NOTED

DR. M.J.B. TR. E.R.S. CH. R.E.M.	OFFICE OF CHIEF ENGINEER DETROIT, MICHIGAN JAN. 22-1941.	JOURNAL Nº W-6347

ISSUE Nº 2 DATE 6/11/41

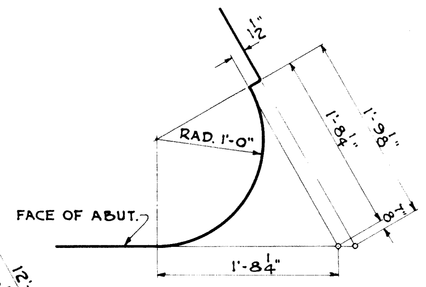


PLAN



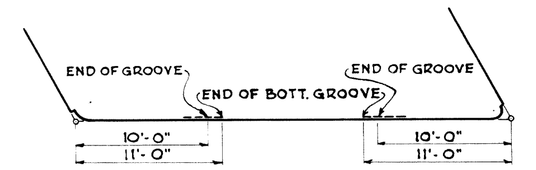
CORNER LAYOUT

SCALE 1" = 1'-0"



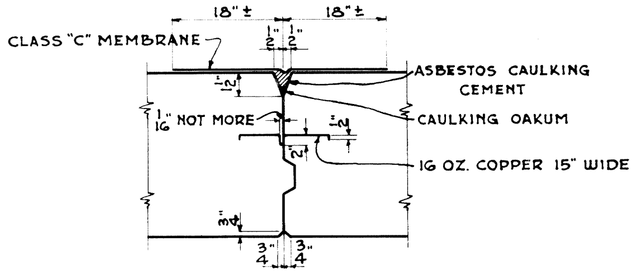
CORNER LAYOUT

SCALE 1" = 1'-0"



LAYOUT FOR GROOVES-FACE OF ABUT.

NOT TO SCALE



TYPICAL VERT. CONST. JT.

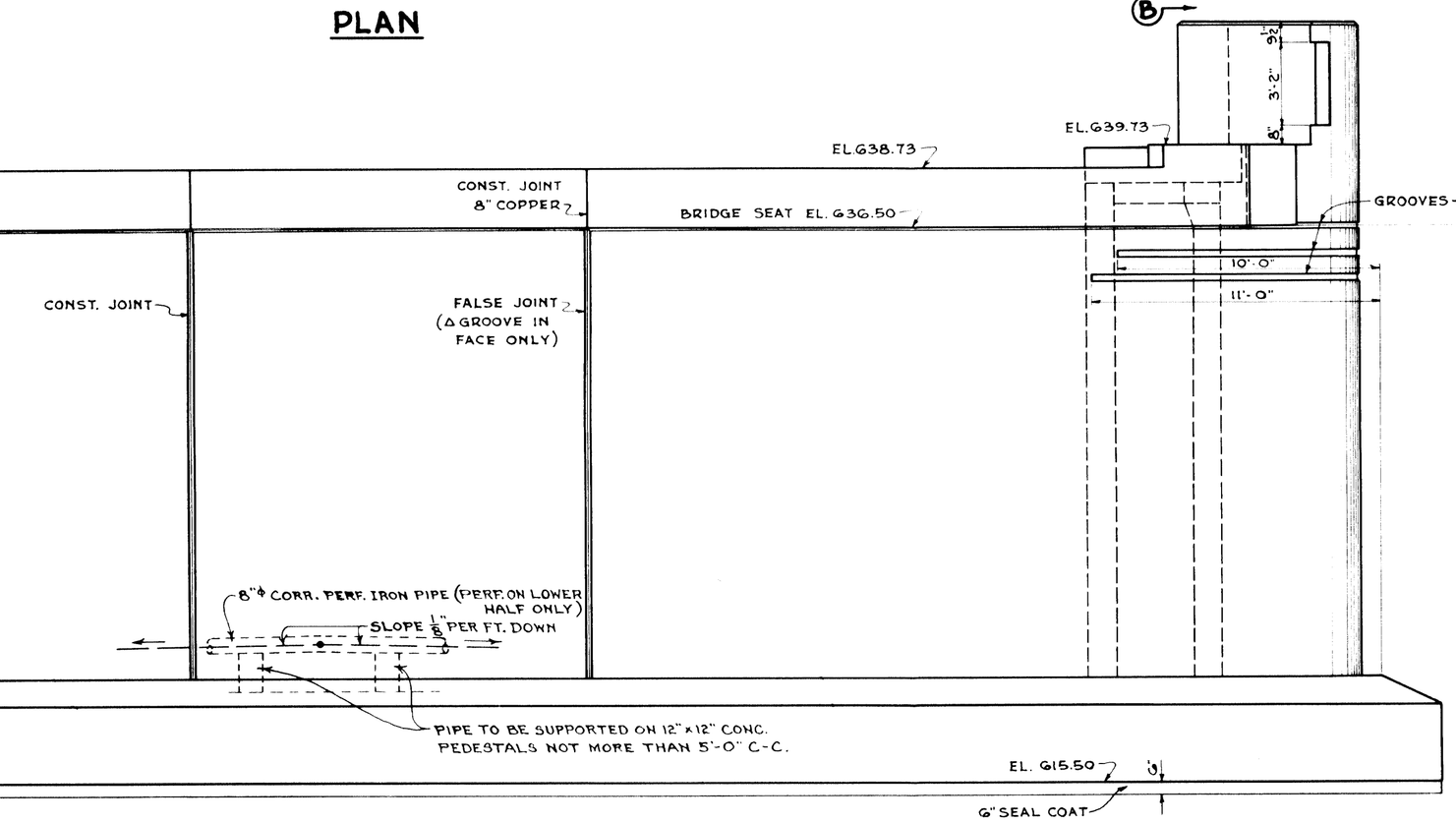
HORIZ. CONST. JTS. TO HAVE 8" COPPER EXCEPT BETWEEN FTG. & NEAT WORK

NOT TO SCALE

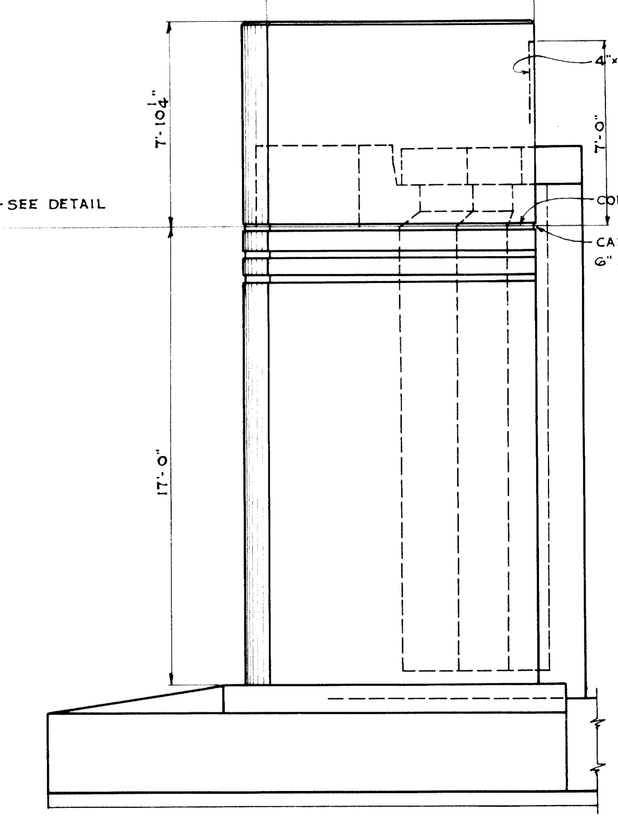
CORNER LAYOUT

SCALE 1" = 1'-0"

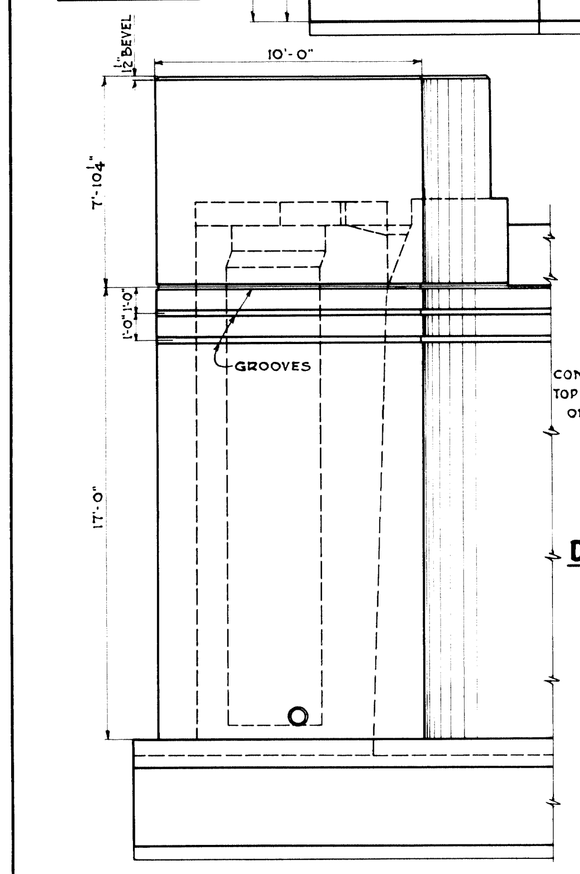
END VIEW



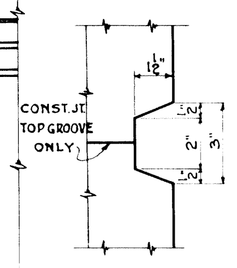
ELEVATION



VIEW F-F

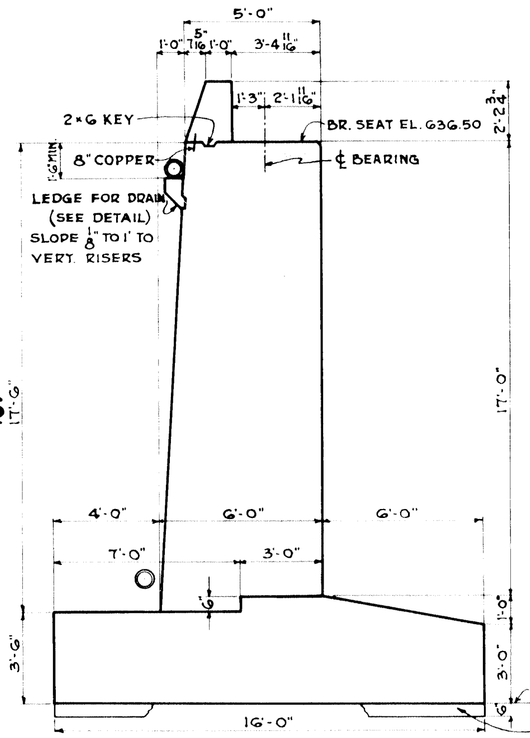


VIEW A-A

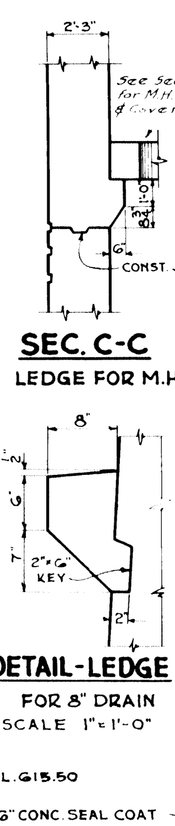


DETAIL OF GROOVES

SCALE 3" = 1'-0"



TYPICAL CROSS SECTION



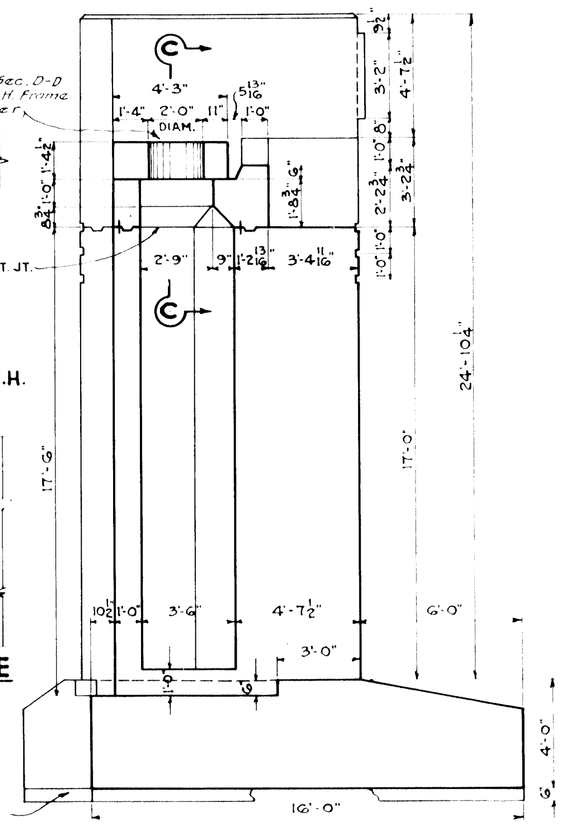
SEC. C-C

LEDGE FOR M.H.

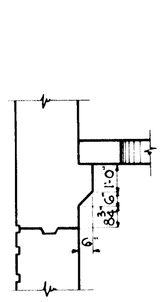
DETAIL-LEDGE

FOR 8" DRAIN

SCALE 1" = 1'-0"

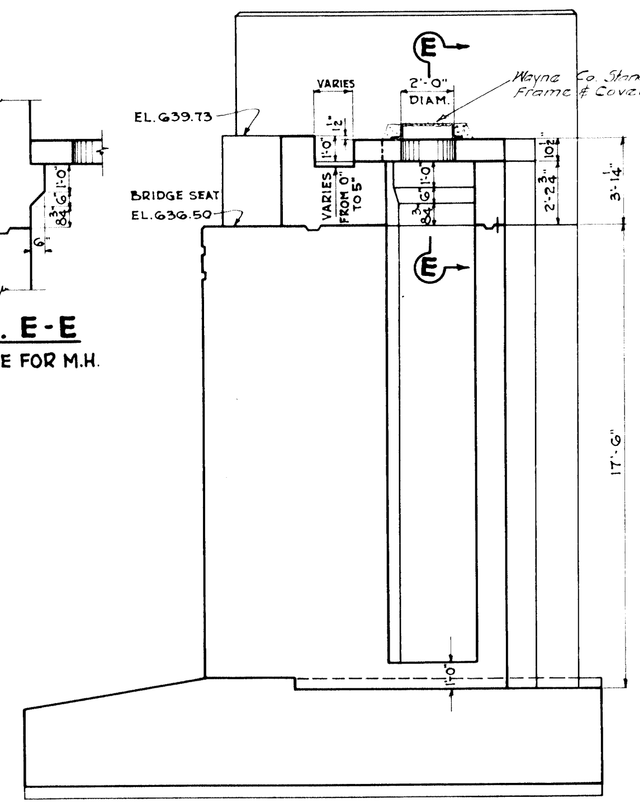


SECTION B-B



SEC. E-E

LEDGE FOR M.H.



SECTION D-D

CONCRETE QUANTITIES

	FDN.	NEAT	SEAL COAT
Nº ABUT.	171.5 c.y.	307.6 c.y.	23.9 c.y.
Sº ABUT.	171.5 "	307.6 "	23.9 "
TOTALS	343.0 "	615.2 "	47.8 "

NOTE: NORTH & SOUTH ABUTMENTS ARE EXACTLY ALIKE

GRAND TRUNK WESTERN RAILROAD

SIX MILE ROAD GRADE SEPARATION

HIGHLAND PARK - DETROIT

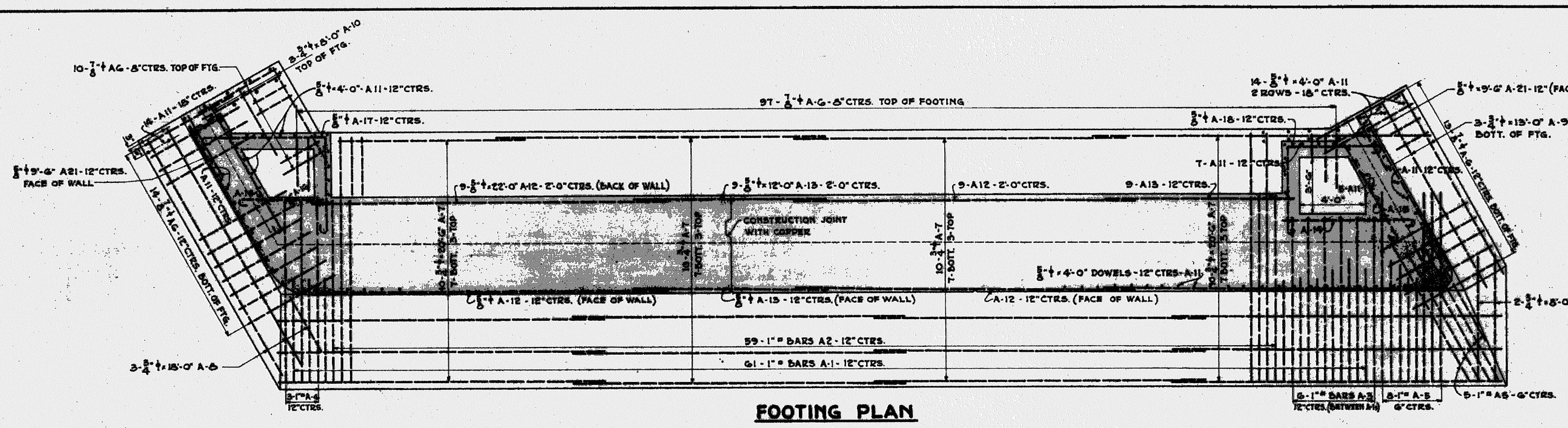
WAYNE COUNTY, MICH.

ABUTMENT DETAILS

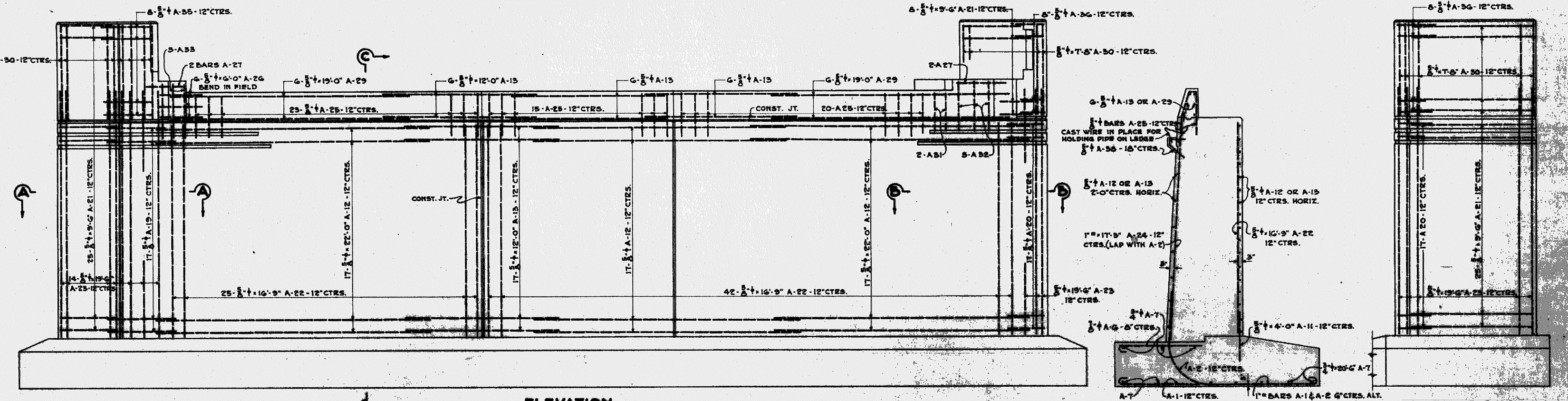
SCALE ¼" = 1'-0" EXCEPT AS NOTED

DR. M.J.B. TR. L.E.B. CH. R.E.M.	OFFICE OF CHIEF ENGINEER DETROIT, MICHIGAN. JAN. 22, 1941.	JOURNAL Nº W-6348 FILE

ISSUE Nº ____ DATE ____



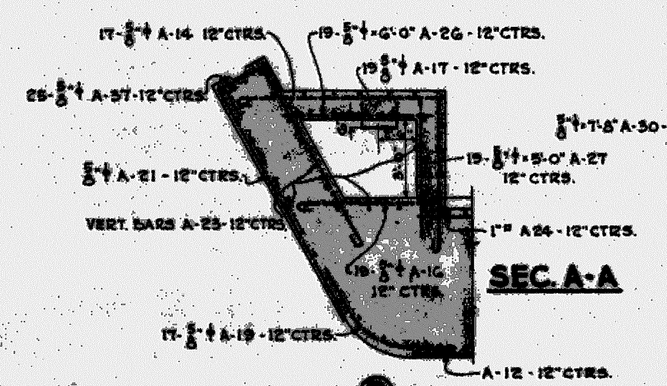
FOOTING PLAN

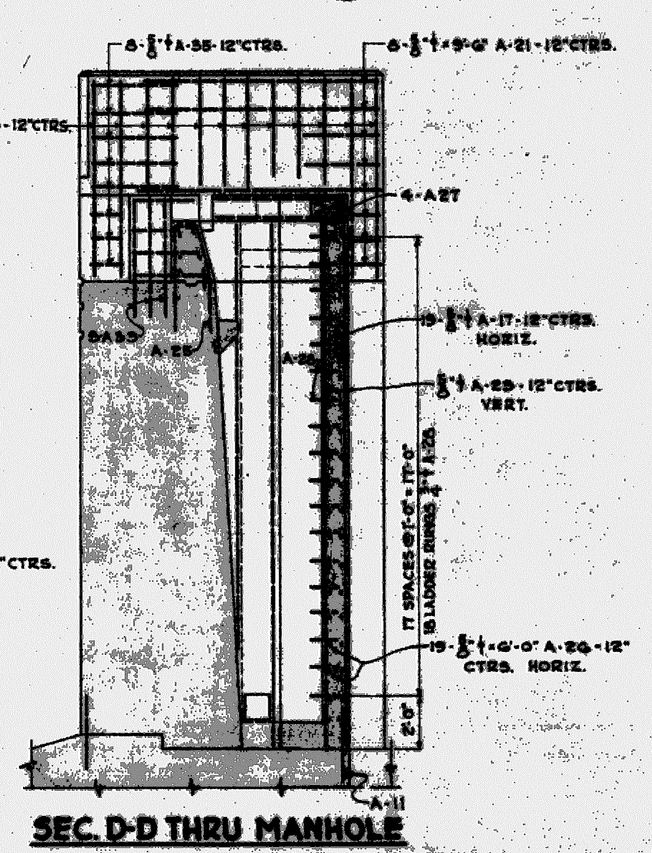


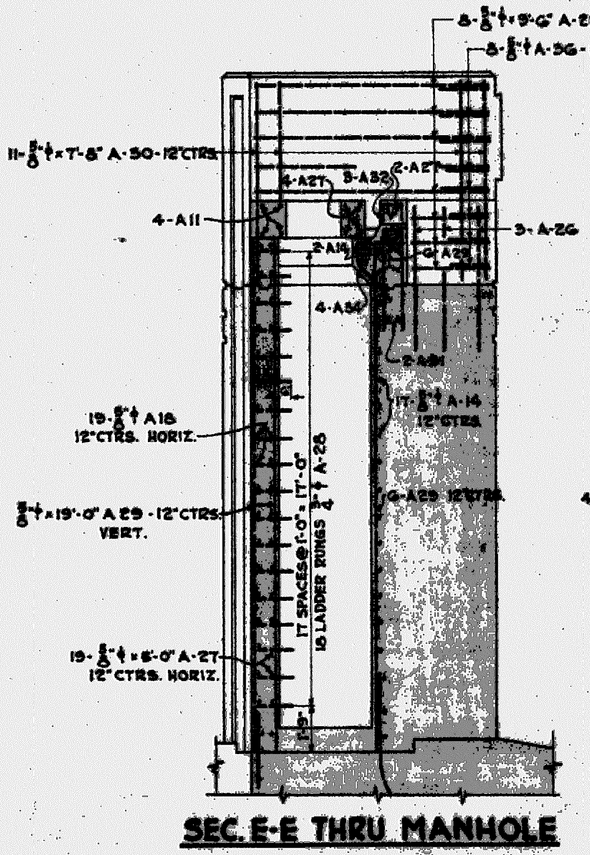
ELEVATION

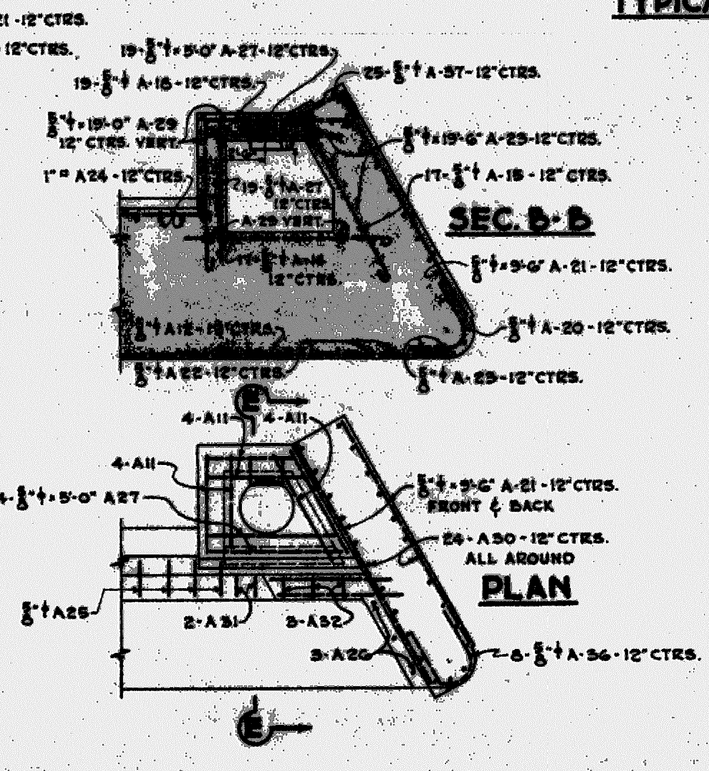
TYPICAL CROSS SECT. "C-C"

END VIEW









NOTE: NORTH & SOUTH ABUTMENTS ARE EXACTLY ALIKE

GRAND TRUNK WESTERN RAILROAD

SIX MILE ROAD GRADE SEPARATION

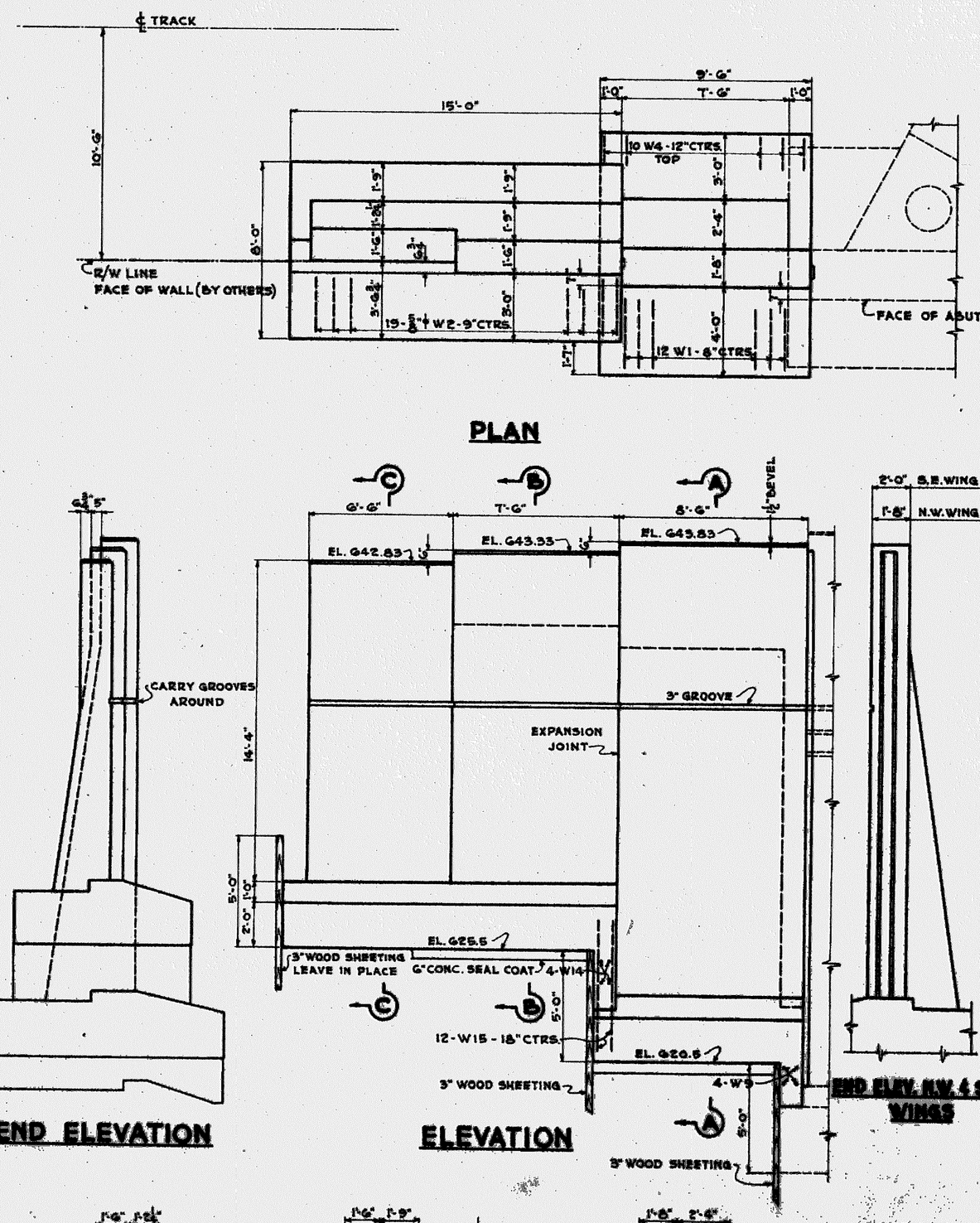
HIGHLAND PARK - DETROIT
WAYNE COUNTY, MICH.

ABUTMENT REINFORCING

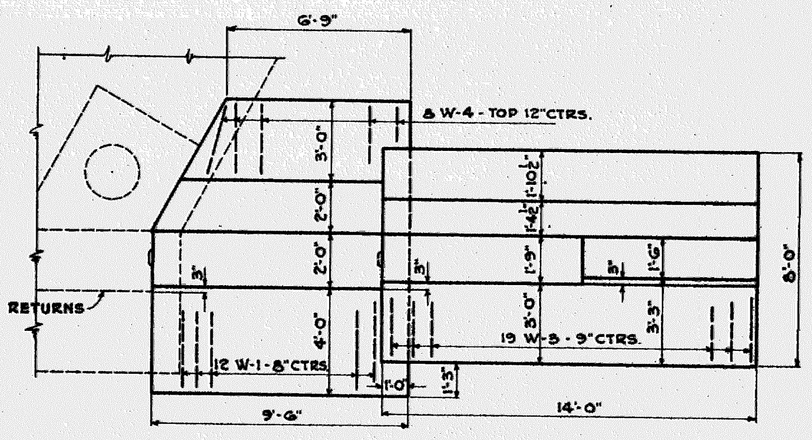
SCALE 1/4"=1'-0"

DR. M.J.S. TR. L.E.S. CH. R.E.M.	OFFICE OF CHIEF ENGINEER DETROIT, MICHIGAN. FEB. 14, 1941.	DRAWING NO. W- 4-3649 FILE	

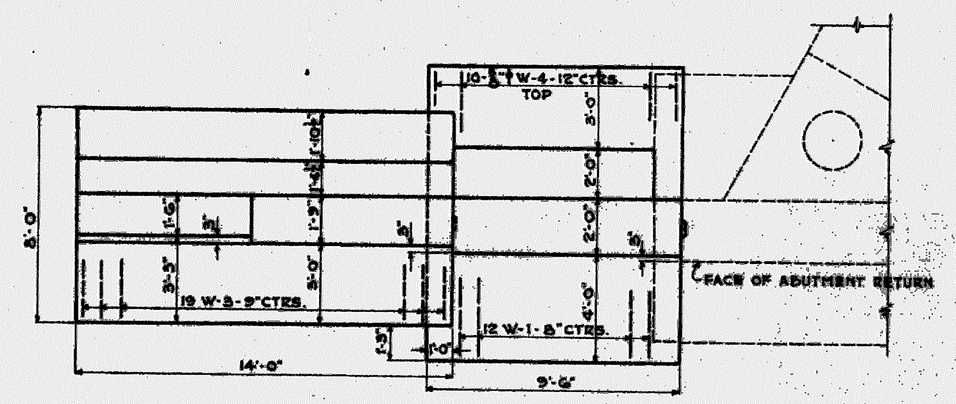
ISSUE No. 1 DATE 4/30/41



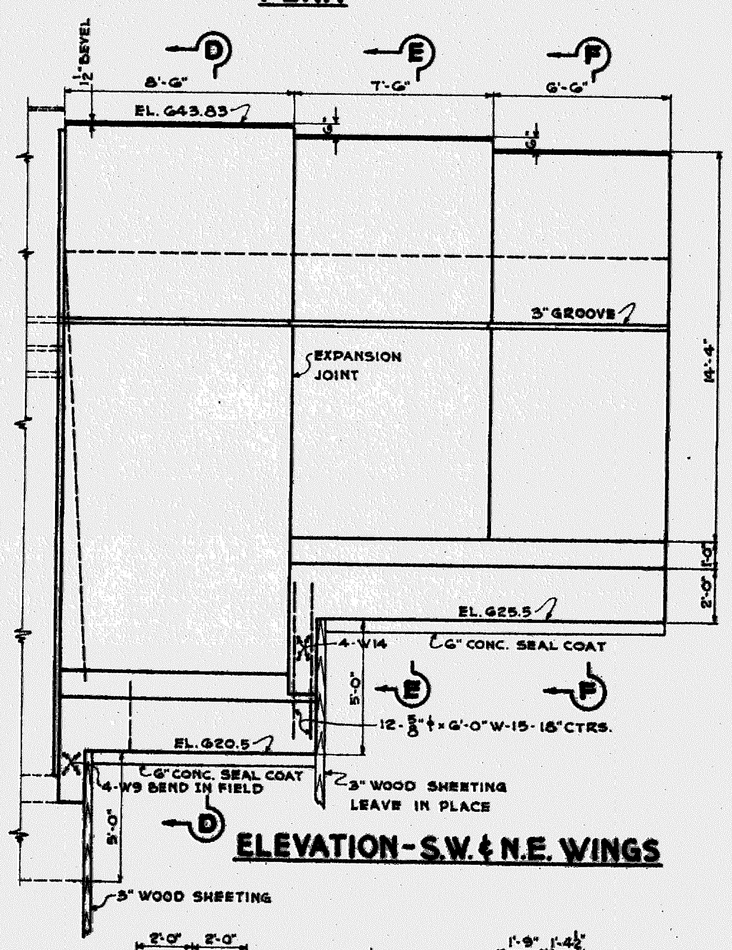
PLAN



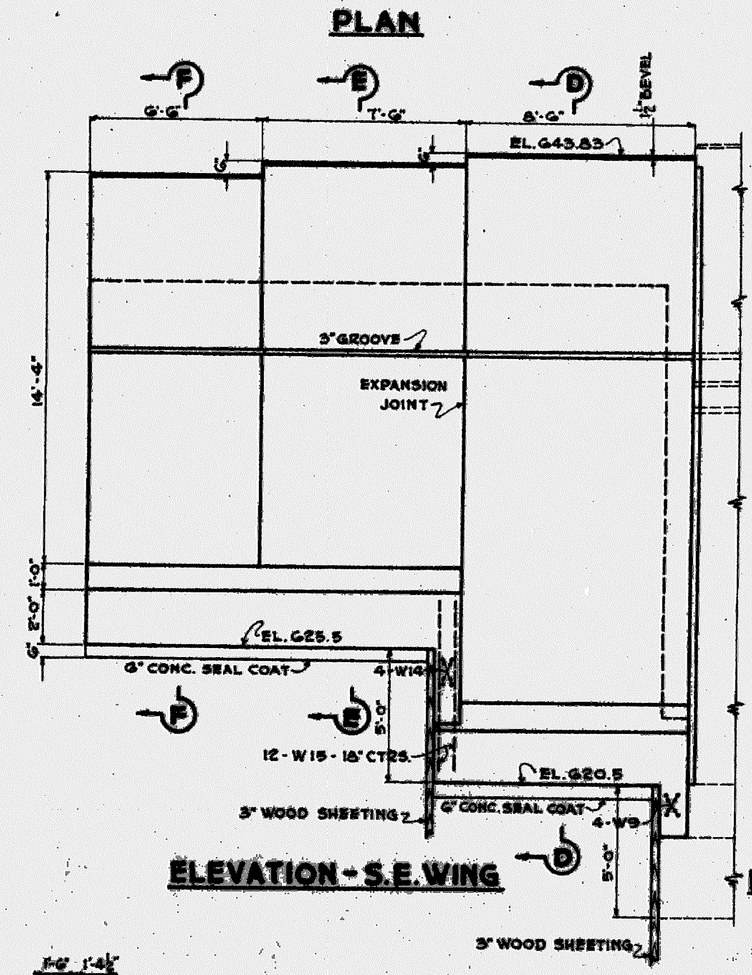
PLAN



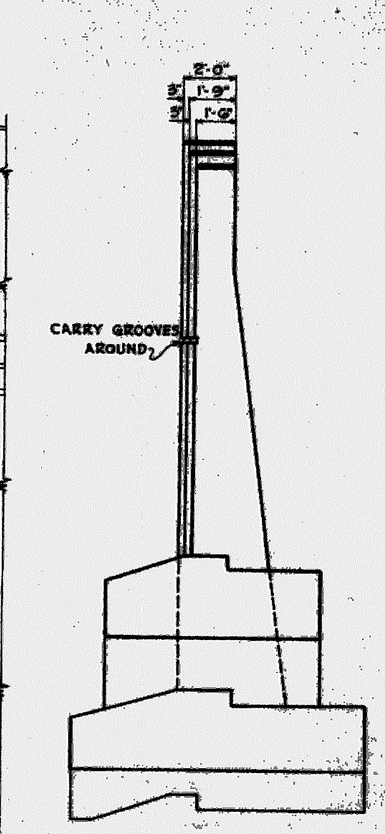
PLAN



ELEVATION - S.W. & N.E. WINGS

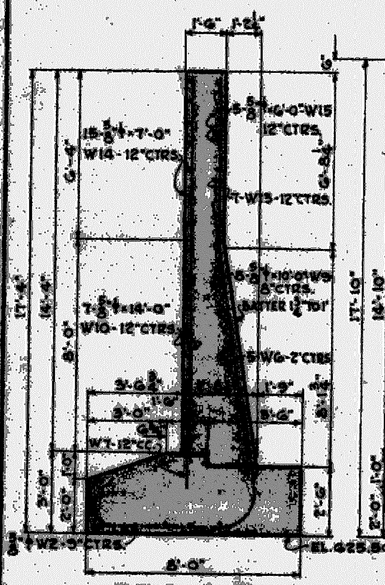


ELEVATION - S.E. WING

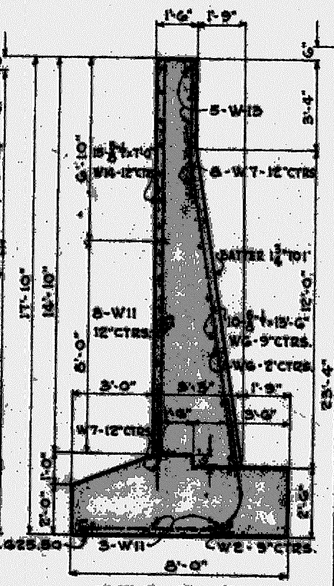


END ELEVATION S.W. & N.E. WINGS

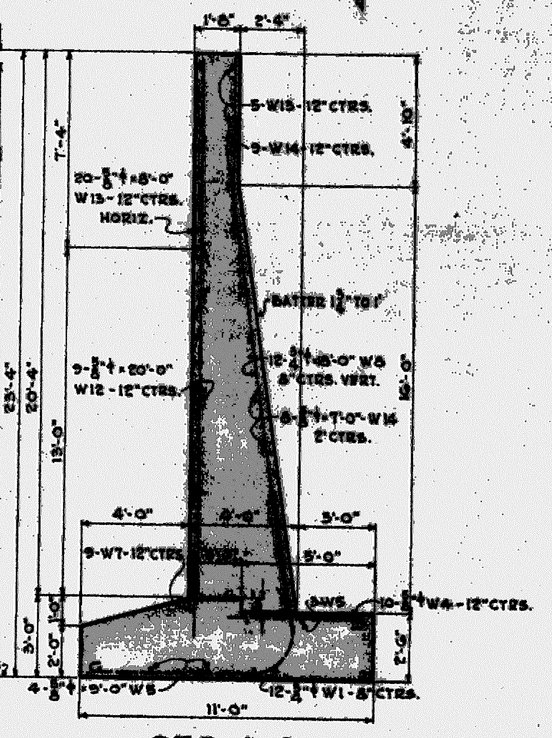
S.E. WING OPP. HAND



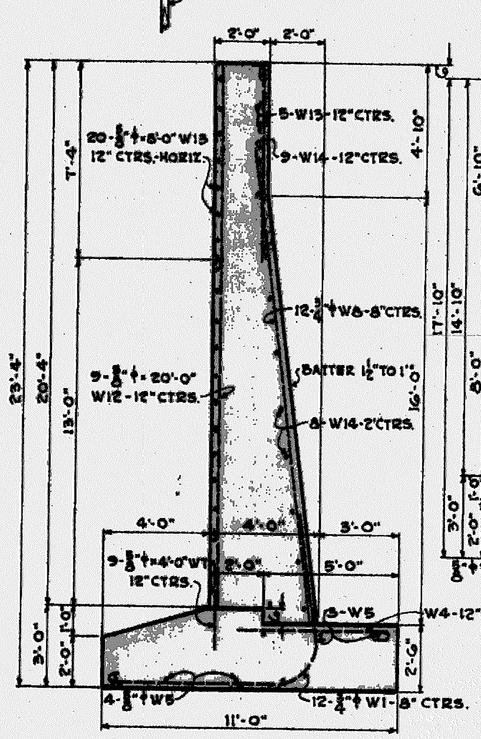
SEC. C-C



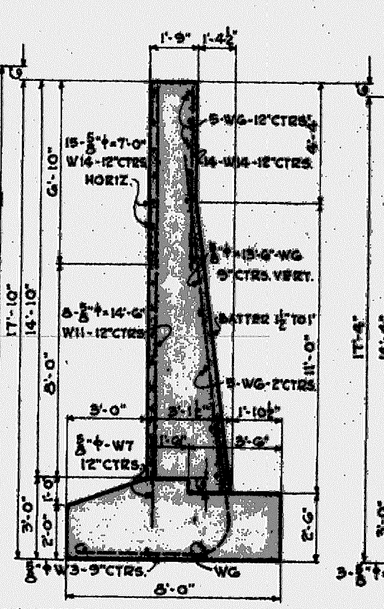
SEC. B-B



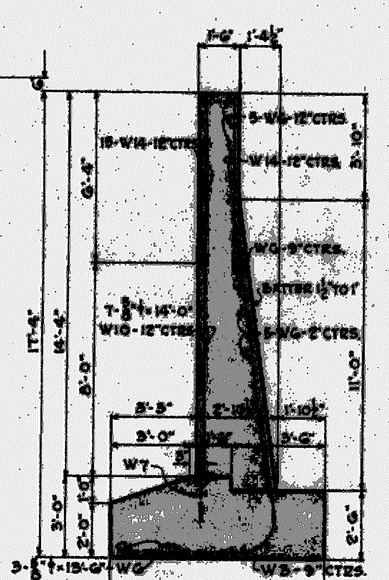
SEC. A-A



SEC. D-D

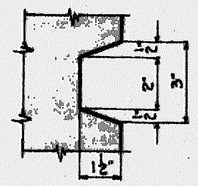


SEC. E-E



SEC. F-F

DETAILS NORTHWEST WING WALL



GROOVE DETAIL

CONCRETE QUANTITIES

	FDN.	NEAT	SEAL COAT
N.W. W.W.	22.86 c.y.	31.22 c.y.	3.80 c.y.
S.W. W.W.	21.42 "	33.74 "	3.53 "
N.E. W.W.	21.42 "	33.74 "	3.53 "
S.E. W.W.	22.08 "	33.56 "	3.65 "
TOTALS	87.78 "	132.26 "	14.51 "

GRAND TRUNK WESTERN RAILROAD

SIX MILE ROAD GRADE SEPARATION

HIGHLAND PARK - DETROIT

WAYNE COUNTY, MICH.

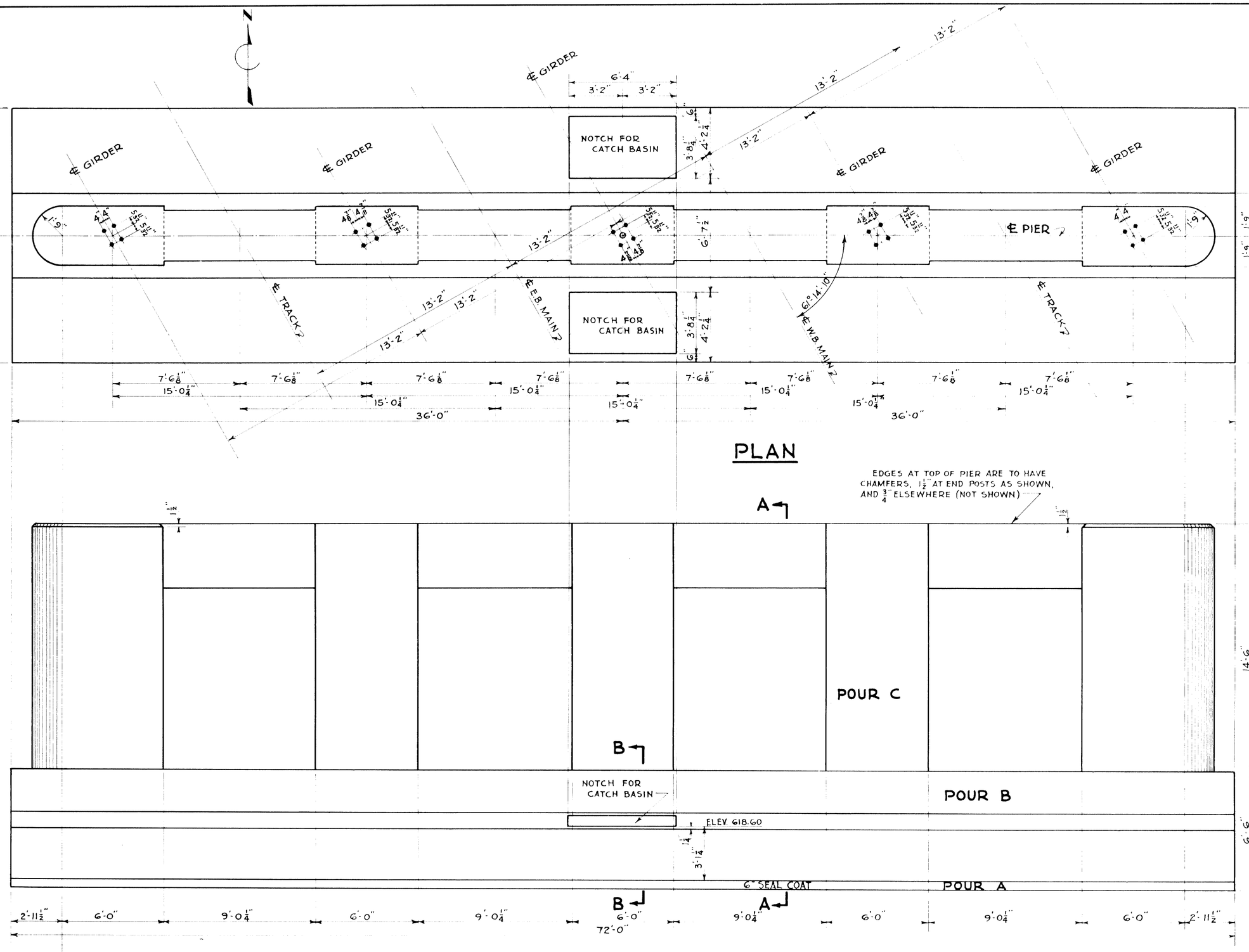
WING WALL DETAILS

SCALE 1/4" = 1'-0"

DR. M.J.B. TR. L.E.B. CH. R.E.M.	OFFICE OF CHIEF ENGINEER DETROIT, MICHIGAN. FEB. 21, 1941.	JOURNAL NO. W-6560 MILE

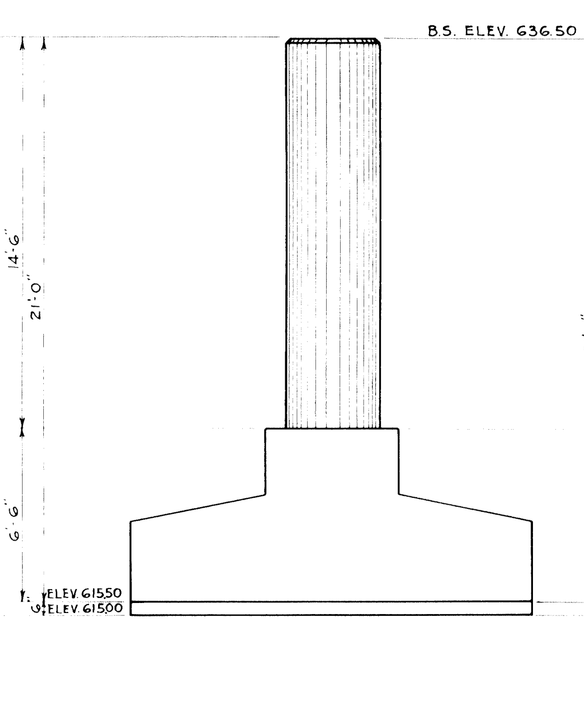
ISSUE No 1 DATE 8/30/41

SHEET G7 OF 16 SHEETS

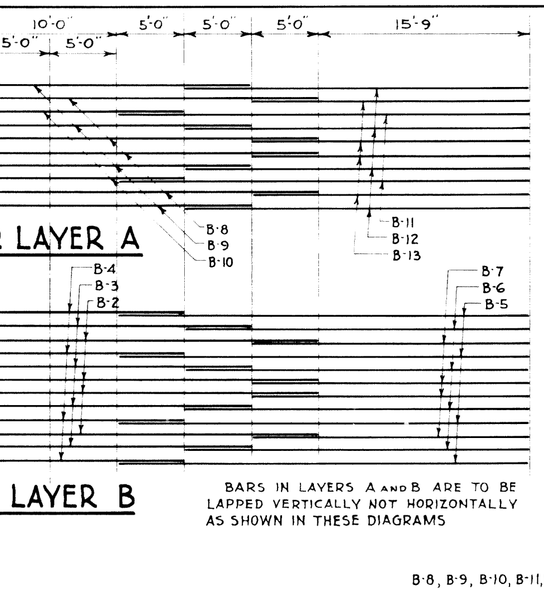


PLAN

SIDE ELEVATION



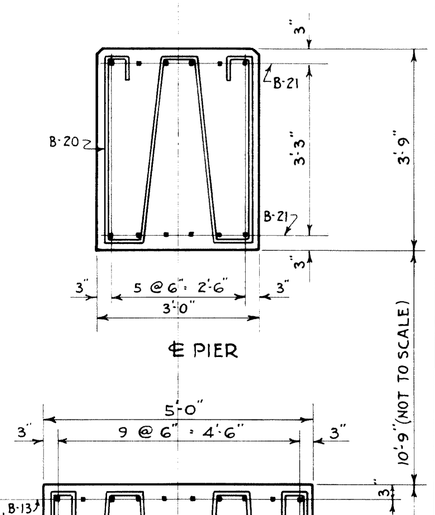
END ELEVATION



BARS FOR LAYER A

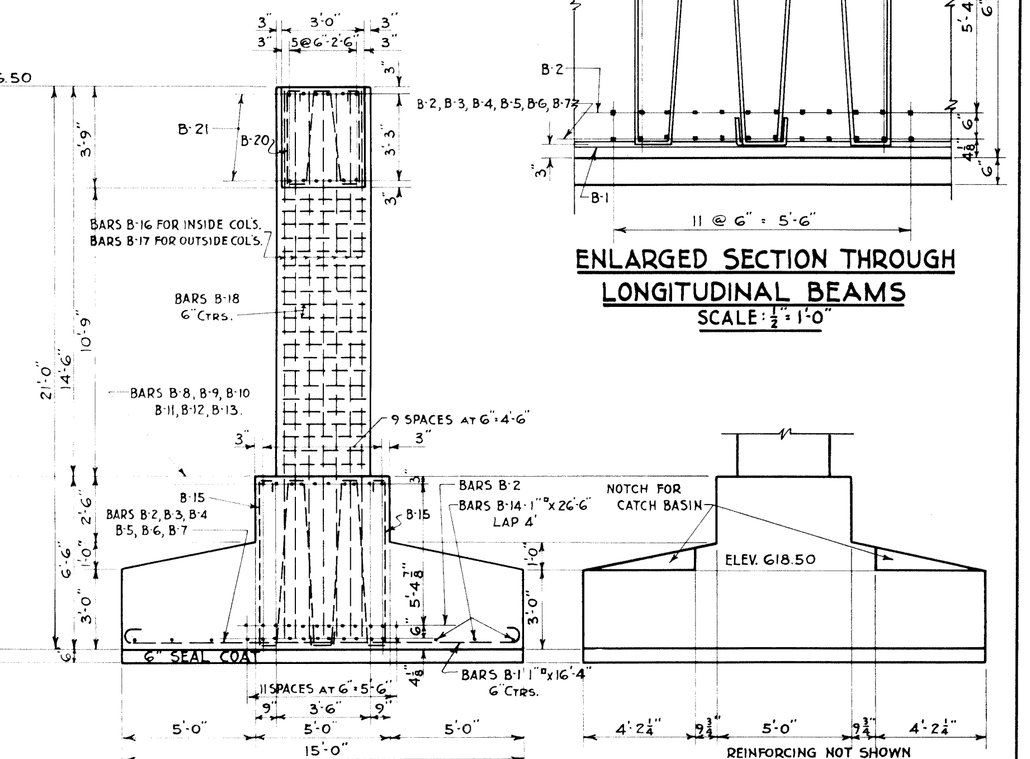
BARS FOR LAYER B

BARS IN LAYERS A AND B ARE TO BE LAPPED VERTICALLY NOT HORIZONTALLY AS SHOWN IN THESE DIAGRAMS



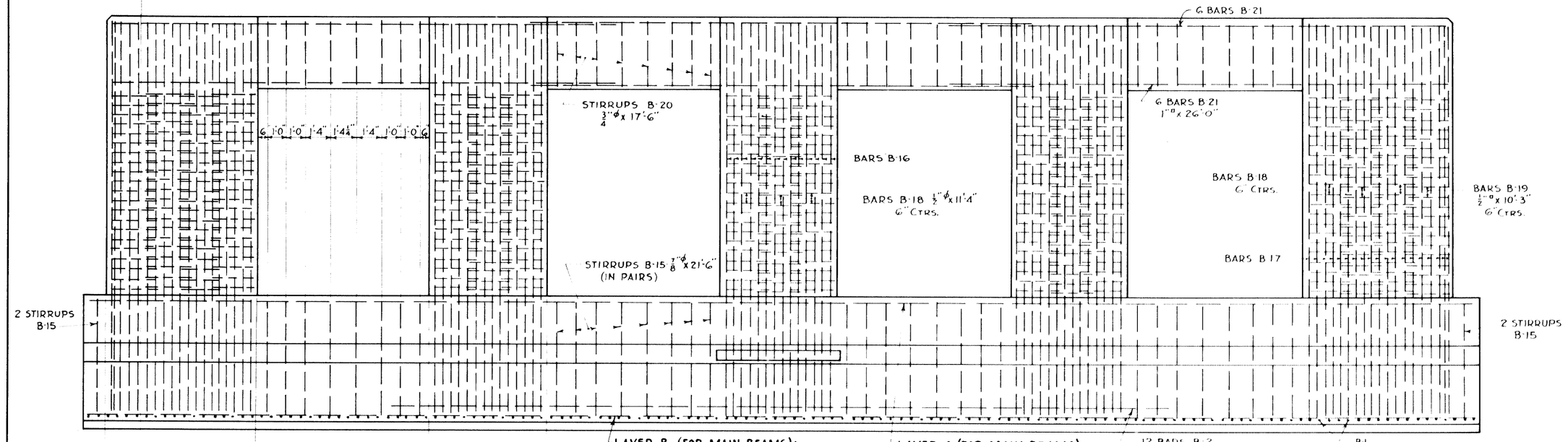
ENLARGED SECTION THROUGH LONGITUDINAL BEAMS

SCALE: ½" = 1'-0"



SECTION A-A

SECTION B-B



REINFORCING DETAILS

LAYER B (FOR MAIN BEAMS):

4 BARS	B-2	1¼" x 40'-0"
4 BARS	B-3	1¼" x 30'-0"
4 BARS	B-4	1¼" x 20'-0"
8 BARS	B-5	1¼" x 30'-9"
8 BARS	B-6	1¼" x 25'-9"
8 BARS	B-7	1¼" x 20'-9"

LAYER A (FOR MAIN BEAMS):

4 BARS	B-8	1⅛" x 40'-0"
4 BARS	B-9	1⅛" x 30'-0"
2 BARS	B-10	1⅛" x 20'-0"
4 BARS	B-11	1¼" x 30'-9"
8 BARS	B-12	1¼" x 25'-9"
8 BARS	B-13	1¼" x 20'-9"

CONCRETE QUANTITIES

FDN.	179.2	Cu. Yds.
NEAT	76.6	" "
SEAL COAT	20.0	" "

ALL CONCRETE CORNERS ARE TO BE SQUARE, UNLESS INDICATED OTHERWISE.

GRAND TRUNK WESTERN RAILROAD
SIX MILE ROAD GRADE SEPARATION
HIGHLAND PARK - DETROIT
WAYNE COUNTY, MICH.

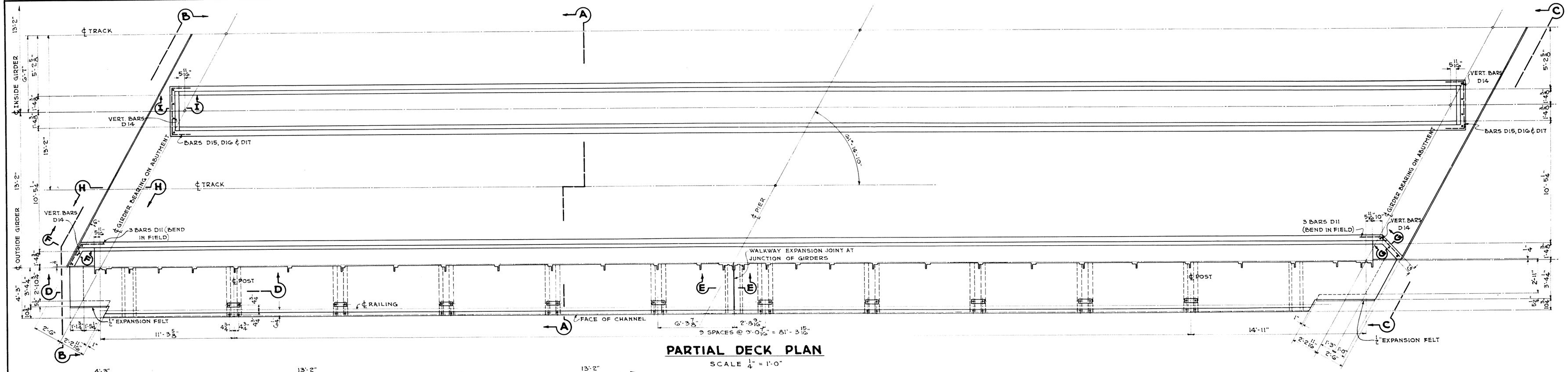
PIER DETAILS

SCALE: ¼" = 1'-0" EXCEPT AS NOTED

DR. R.E.M. TR. E.R.S. CH. M.J.B.	OFFICE OF CHIEF ENGINEER DETROIT, MICHIGAN JAN. 22, 1941.	JOURNAL Nº W- 6351 FILE

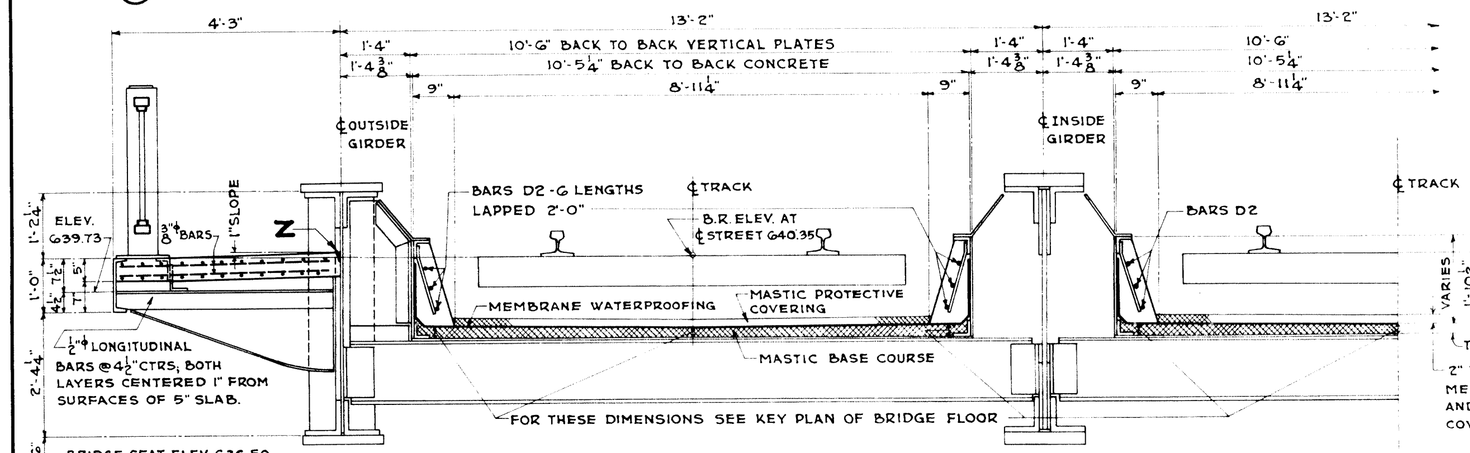
ISSUE Nº DATE

SHEET G8 OF 16 SHEETS

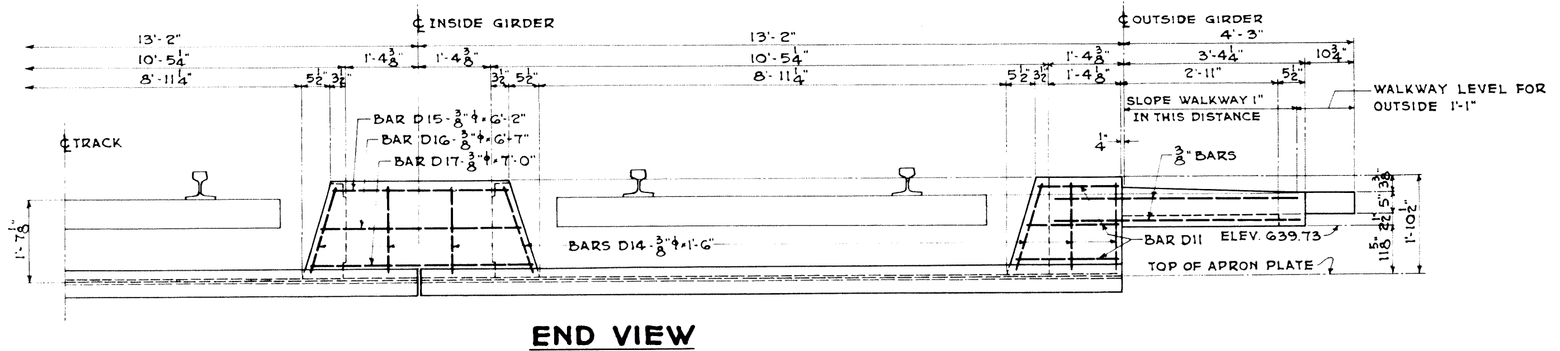


PARTIAL DECK PLAN

SCALE 1/4" = 1'-0"



TYPICAL SECTION A-A

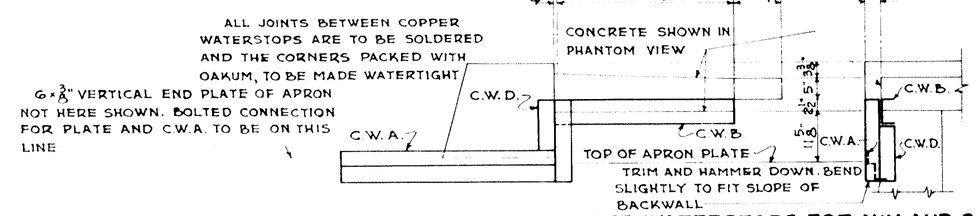


END VIEW

B-B AS SHOWN
C-C OPPOSITE HAND

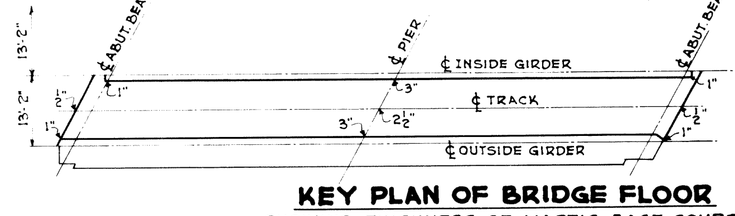
DETAIL AT Z

SCALE 1½" = 1'-0"



ASSEMBLY OF COPPER WATERSTOPS FOR N.W. AND S.E. CORNERS OF DECK

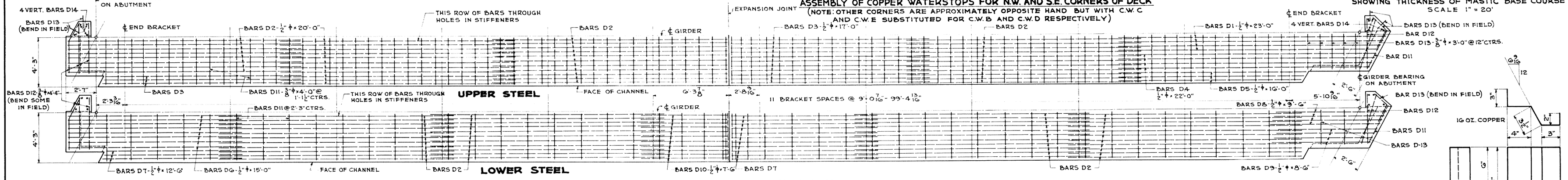
(NOTE: OTHER CORNERS ARE APPROXIMATELY OPPOSITE HAND BUT WITH C.W.C AND C.W.E SUBSTITUTED FOR C.W.B AND C.W.D RESPECTIVELY)



KEY PLAN OF BRIDGE FLOOR

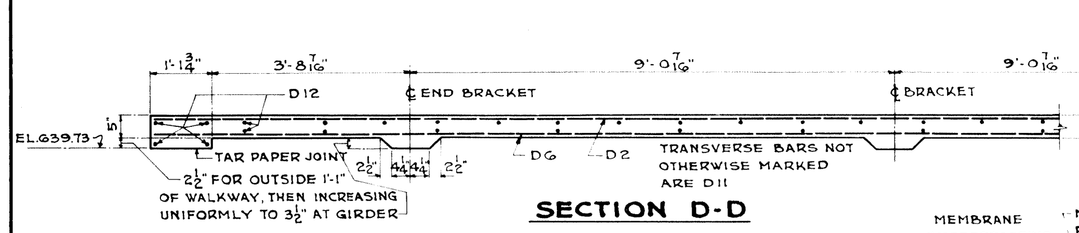
SHOWING THICKNESS OF MASTIC BASE COURSE

SCALE 1" = 20'

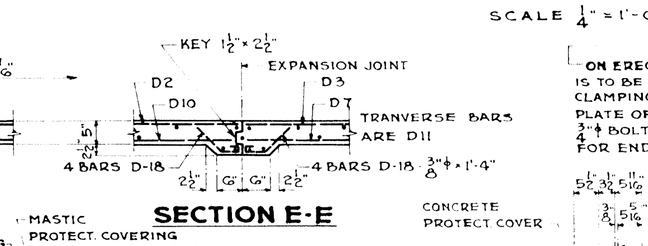


ARRANGEMENT OF STEEL FOR WALKWAYS

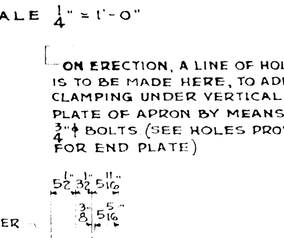
SCALE 1/4" = 1'-0"

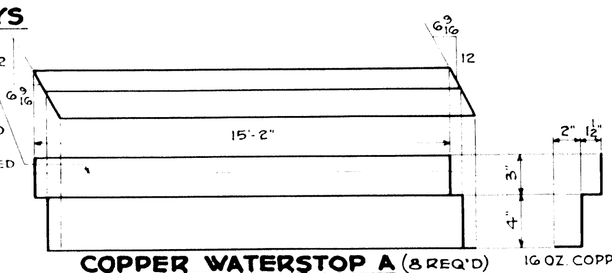


SECTION D-D



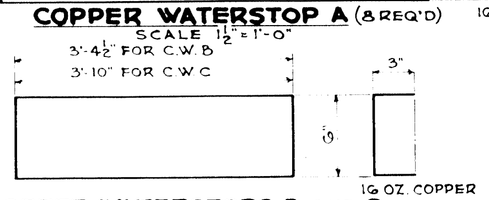
SECTION E-E





COPPER WATERSTOP A (8 REQ'D)

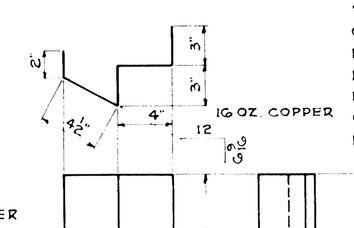
SCALE 1½" = 1'-0"



COPPER WATERSTOPS B AND C

SCALE 1½" = 1'-0"

REQUIRED:-
2 C.W.B
2 C.W.C

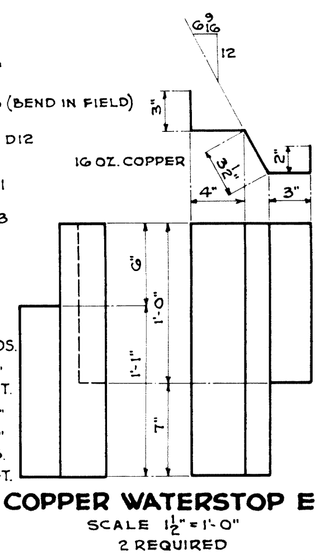


COPPER WATERSTOP D

SCALE 1½" = 1'-0"
2 REQUIRED

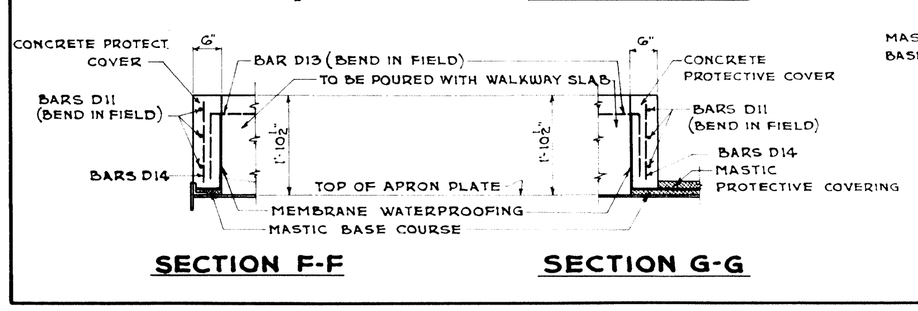
QUANTITIES

WALKWAY CONCRETE	15.8 CU.YDS.
CONCRETE PROTECTIVE COVER	27.3 " "
MEMBRANE WATERPROOFING	5860 SQ.FT.
MASTIC PROTECTIVE COVERING	4110 " "
MASTIC BASE COURSE	4750 " "
COPPER WATERSTOP	130 LBS.
EXPANSION FELT	11 SQ.FT.



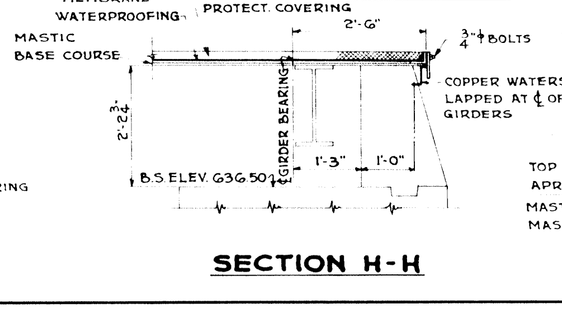
COPPER WATERSTOP E

SCALE 1½" = 1'-0"
2 REQUIRED

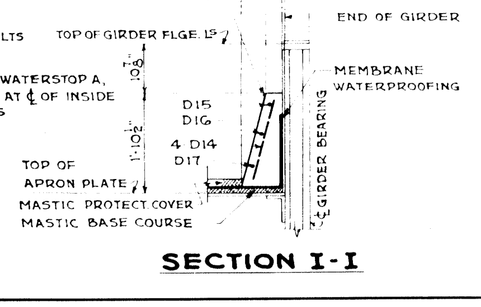


SECTION F-F

SECTION G-G



SECTION H-H



SECTION I-I

GRAND TRUNK WESTERN RAILROAD
SIX MILE ROAD GRADE SEPARATION

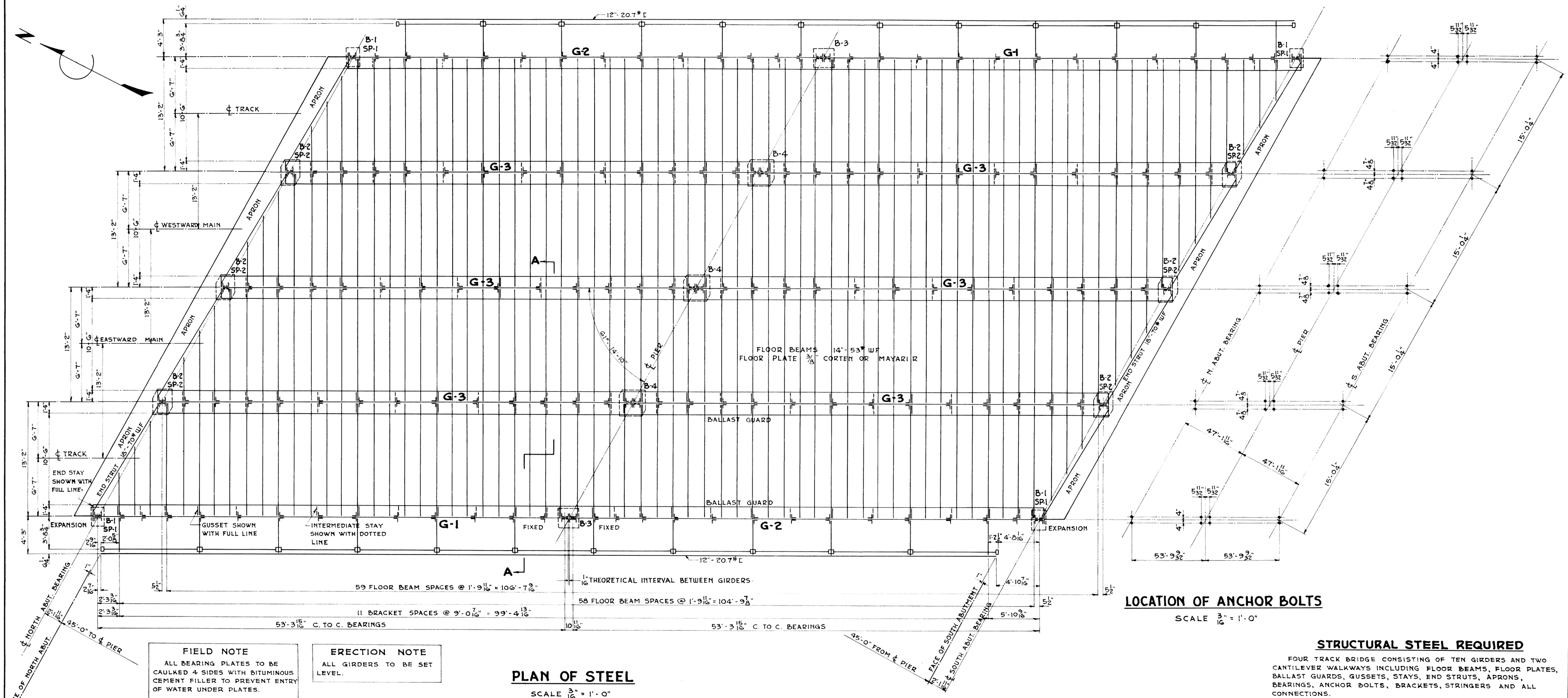
HIGHLAND PARK - DETROIT
WAYNE COUNTY, MICH.

DECK DETAIL & WATERPROOFING

SCALE 1/2" = 1'-0" EXCEPT AS NOTED

DR. R.E.M. TR. L.E.B. CH. T.H.J.	OFFICE OF CHIEF ENGINEER DETROIT, MICHIGAN. MAR. 7, 1941.	JOURNAL № W-6353 FILE

ISSUE № DATE



PLAN OF STEEL

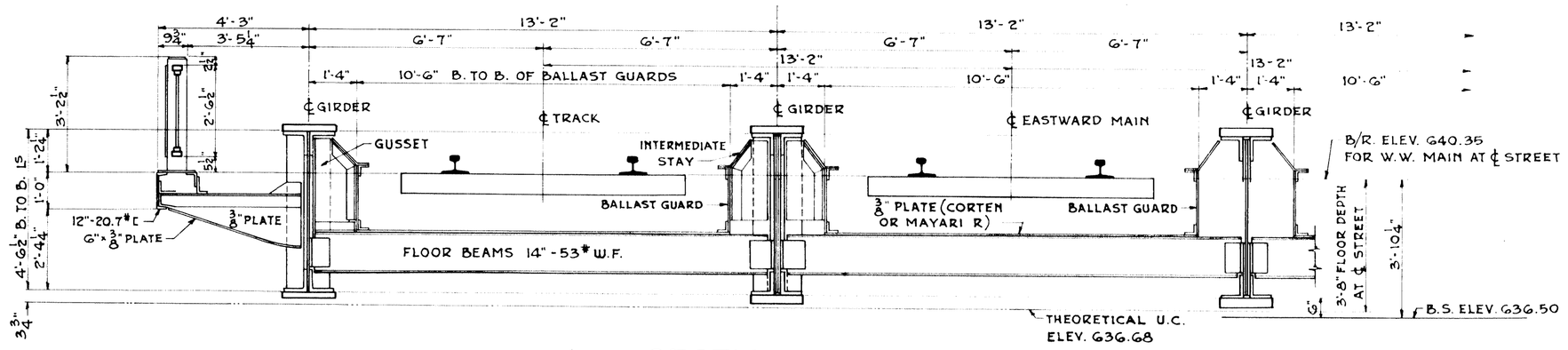
SCALE 3/16" = 1'-0"

FIELD NOTE

ALL BEARING PLATES TO BE CAULKED 4 SIDES WITH BITUMINOUS CEMENT FILLER TO PREVENT ENTRY OF WATER UNDER PLATES.

ERECTION NOTE

ALL GIRDERS TO BE SET LEVEL.



SECTION A-A

SCALE 3/8" = 1'-0"

LOCATION OF ANCHOR BOLTS

SCALE 3/16" = 1'-0"

STRUCTURAL STEEL NOTES

DESIGN :- A.R.E.A. SPECIFICATIONS FOR STEEL RAILWAY BRIDGES (CURRENT)
LOADING :- E-72 WITH FULL IMPACT
MATERIALS :- STRUCTURAL STEEL :-
CARBON- A.S.T.M. SPECIFICATION A7-36
SILICON- A.S.T.M. SPECIFICATION A94-33
CORTEN OR MAYARI R - MANUFACTURER'S STANDARD
RIVET STEEL :- A.S.T.M. SPECIFICATION A141-33
PHOSPHOR BRONZE PLATES :- A.S.T.M. SPECIFICATION B100-35T, CLASS "B"

RIVETS :- 1" ϕ THROUGH WEBS AND FLANGES OF GIRDERS, 3/4" ϕ THROUGH 2 1/2"-2 1/2"-1/4" STIFFENING ANGLES AND REMOVABLE PLATES, 7/8" ϕ OTHER PARTS
OPEN HOLES :- 1 1/16" ϕ THROUGH WEBS & FLANGES OF GIRDERS EXCEPT FOR ANCHOR BOLTS AS INDICATED ; 15/16" Φ ELSEWHERE EXCEPT AS NOTED.
WELDING :- AMERICAN WELDING SOCIETY SPECIFICATIONS (CURRENT)
PAINTING :- SEE SPECIFICATIONS
MILL & SHOP INSPECTION :- SEE SPECIFICATIONS.
ERECTION :- SEE SPECIFICATIONS.
SHOP DRAWINGS :- STEEL COMPANY TO FURNISH DETAILS FOR CHECKING AND INKED LINEN TRACINGS OF ALL SHOP DRAWINGS FOR PERMANENT RECORD.

ESTIMATED WEIGHTS

STRUCTURAL STEEL :-	
CARBON	461,680#
SILICON	269,260#
CORTEN OR MAYARI R	71,240#
PHOSPHOR BRONZE PLATES :-	180#
TOTAL :-	802,360#

NOTE :- STEEL HANDRAIL NOT INCLUDED IN ABOVE QUANTITIES

STRUCTURAL STEEL REQUIRED

FOUR TRACK BRIDGE CONSISTING OF TEN GIRDERS AND TWO CANTILEVER WALKWAYS INCLUDING FLOOR BEAMS, FLOOR PLATES, BALLAST GUARDS, GUSSETS, STAYS, END STRUTS, APRONS, BEARINGS, ANCHOR BOLTS, BRACKETS, STRINGERS AND ALL CONNECTIONS.

SILICON STEEL :- WEB, SIDE, COVER & SOLE PLATES, END STIFFENERS & END FILLS, FLANGE ANGLES } INSIDE GIRDERS ONLY
CORTEN OR MAYARI R STEEL :- ALL FLOOR PLATES
CARBON STEEL :- ALL OTHER PARTS
ALL AS DETAILED AND SHOWN

TABLE OF STRESSES

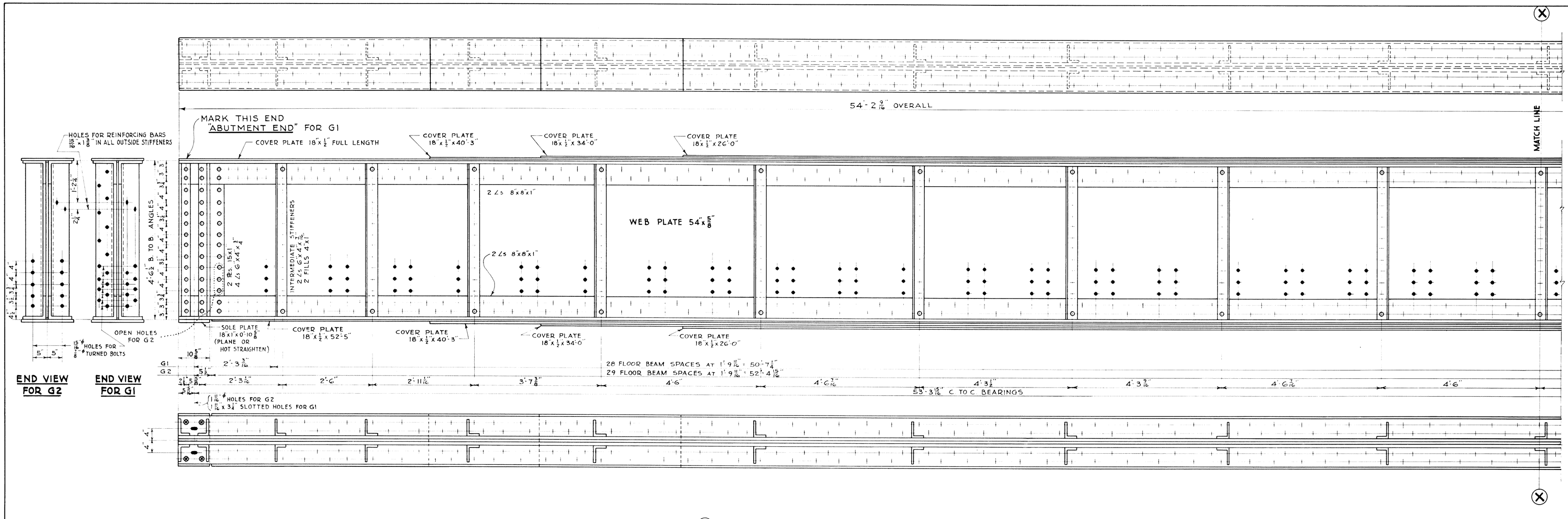
MEMBER	LOAD	MAX. MOMENT-FT.LBS.	MAX. SHEAR-LBS.	SECTION
OUTSIDE GIRDER	D.L.	1,102,000	82,700	WEB 1/2 54" x 5/16"
	L.L.	1,916,000	163,500	4 LS 8" x 8" x 1"
	IMPACT	1,448,000	123,800	2 COVERS 18" x 2"
	TOTAL	4,466,000	370,000	
INSIDE GIRDER	D.L.	1,635,000	122,800	WEB 1/2 54" x 1"
	L.L.	3,832,000	327,000	4 LS 8" x 8" x 1/16"
	IMPACT	2,895,000	247,500	2 COVERS 18" x 3"
	TOTAL	8,362,000	697,300	SIDE PS 19" x 5/16" SIDE PS 15" x 5/16"
FLOOR BEAMS	D.L.	10,240	2,715	14"-53# WIDE FLGE.
	L.L.	53,250	13,030	
	IMPACT	53,250	13,030	
	TOTAL	116,740	28,775	

ISSUE Nº . . DATE

GRAND TRUNK WESTERN RAILROAD
SIX MILE ROAD GRADE SEPARATION
HIGHLAND PARK - DETROIT
WAYNE COUNTY, MICH.
STRUCTURAL STEEL GENERAL PLAN
SCALES AS NOTED

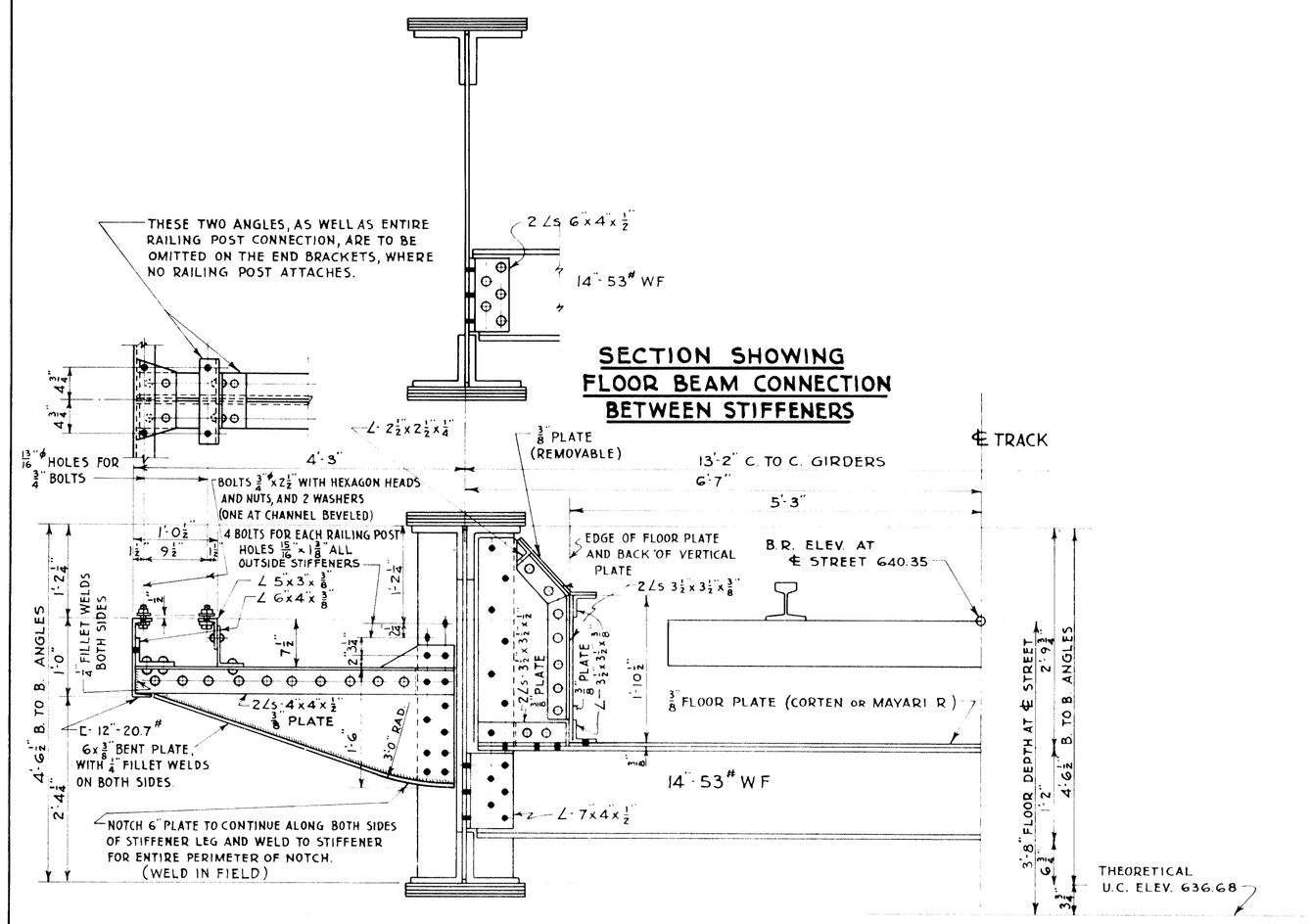
DR. R.E.M.	OFFICE OF CHIEF ENGINEER	JOURNAL Nº
TR. L.E.B.	DETROIT, MICHIGAN	W-6354
CH. T.H.J.	JAN. 22, 1941	FILE

SHEET G11 OF 16 SHEETS



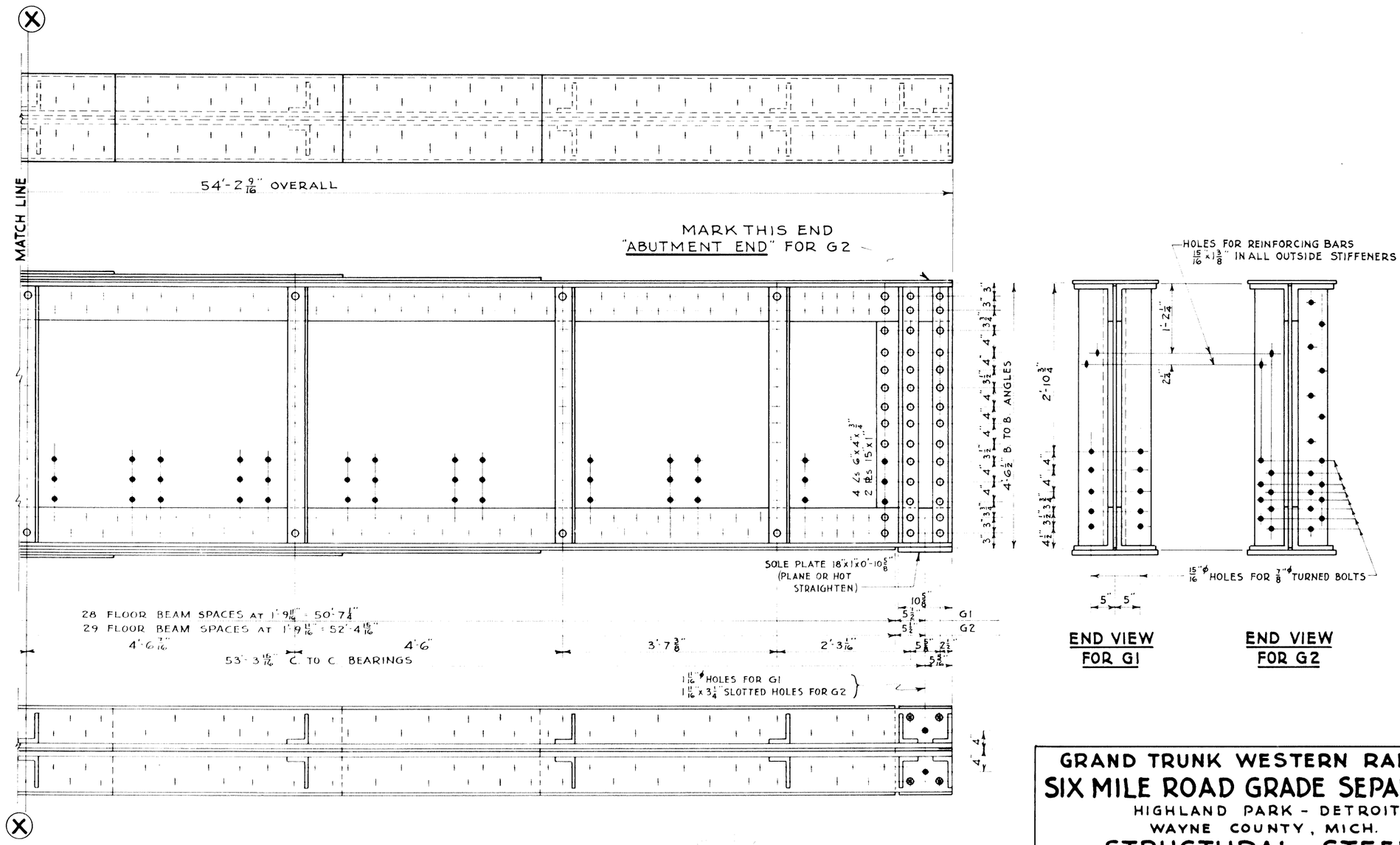
OUTSIDE GIRDERS G1 AND G2

GIRDER G1 - 2 REQUIRED
GIRDER G2 - 2 REQUIRED



SECTION SHOWING FLOOR BEAM CONNECTION BETWEEN STIFFENERS

SECTION SHOWING BRACKET, GUSSET, AND FLOOR BEAM CONNECTION AT STIFFENERS

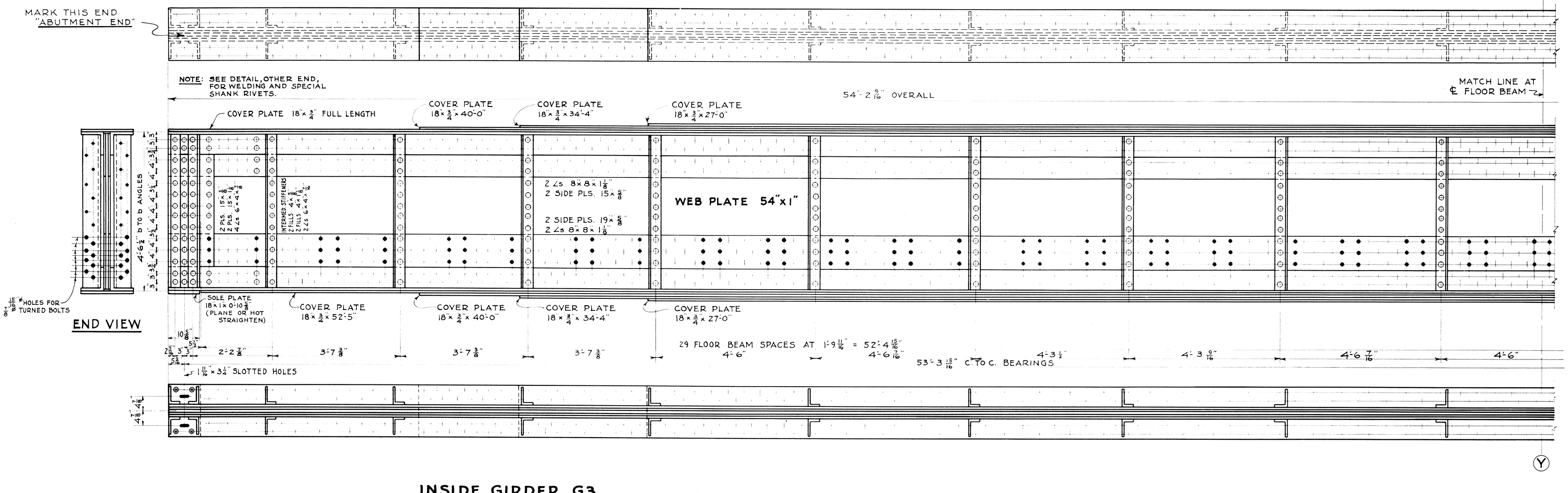


GRAND TRUNK WESTERN RAILROAD
SIX MILE ROAD GRADE SEPARATION
HIGHLAND PARK - DETROIT
WAYNE COUNTY, MICH.
STRUCTURAL STEEL
GIRDER DETAILS
SCALE: 1/2" = 1'-0"

DR. R.E.M.	OFFICE OF CHIEF ENGINEER	JOURNAL Nº
TR. E.R.S.	DETROIT, MICHIGAN.	W- 6355
CH. T.H.J.	JAN. 22, 1941.	FILE

ISSUE Nº DATE

SHEET G12 OF 16 SHEETS



END VIEW

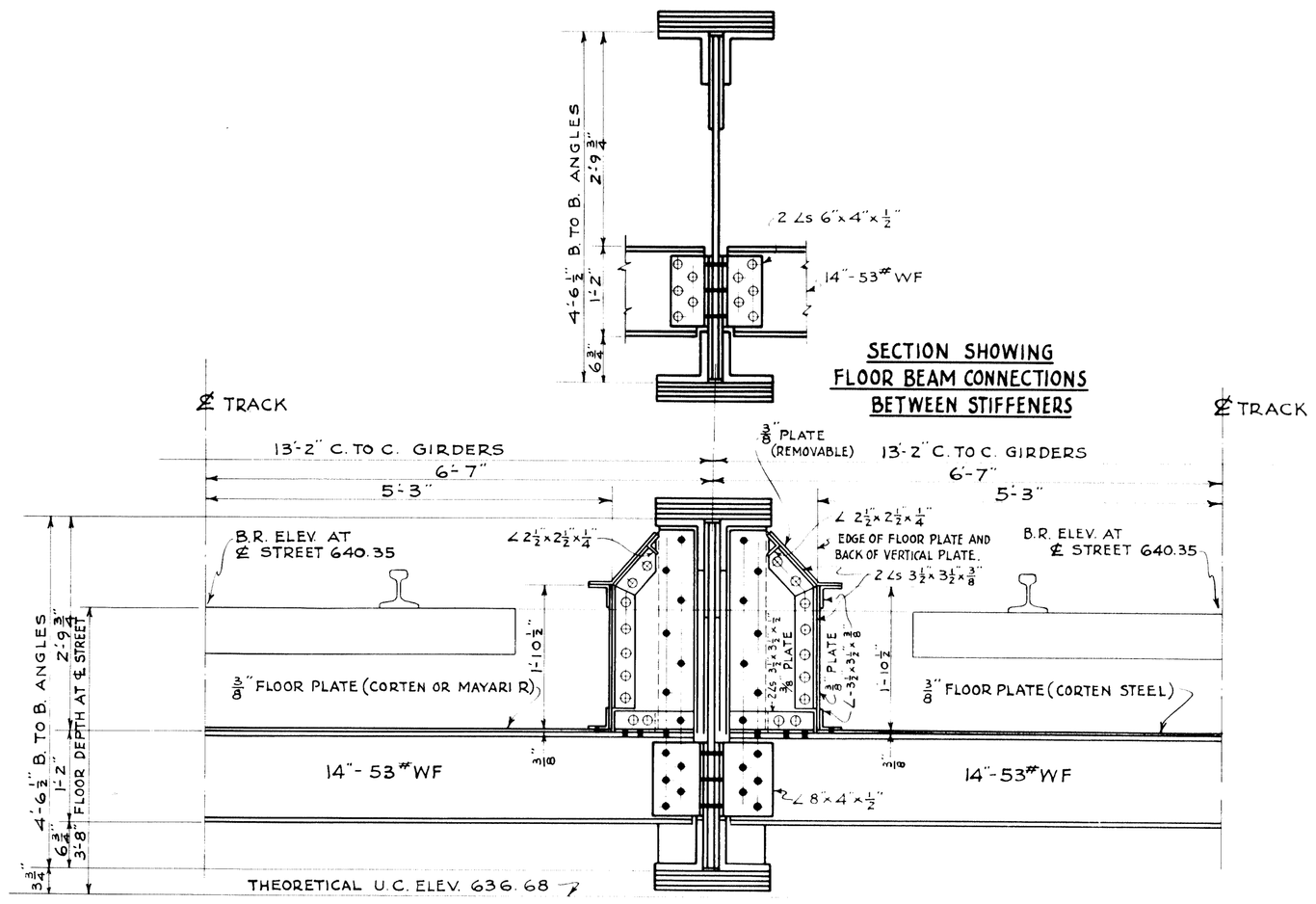
INSIDE GIRDER G3

6 REQUIRED

— MATERIAL —

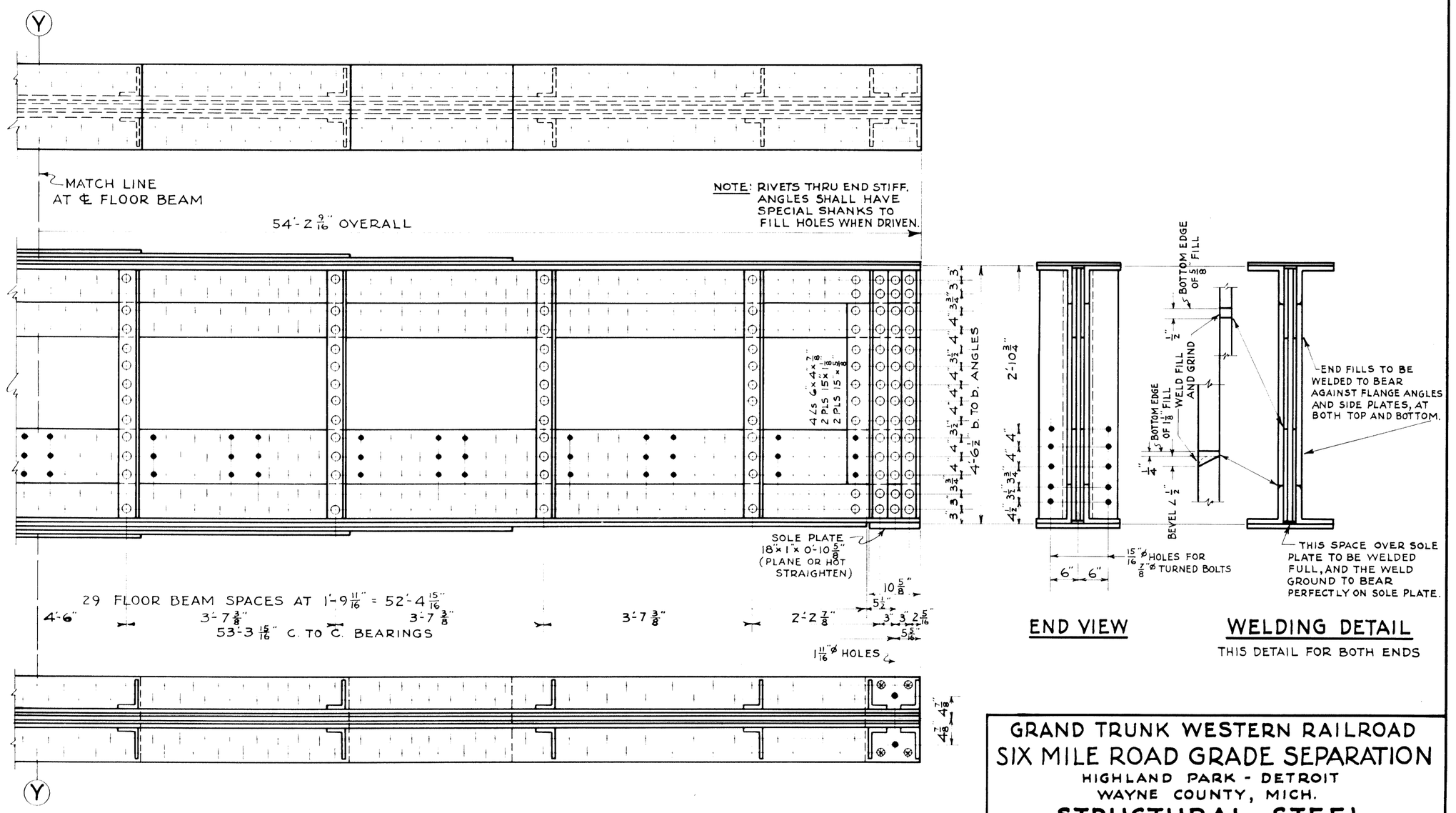
SILICON STEEL: WEB, SIDE PLS, FLGE. Ls, COV. PLS, END STIFF. Ls, END FILLS, & SOLE PLS.

CARBON STEEL: INTERMEDIATE STIFF. Ls & FILLS.



SECTION SHOWING FLOOR BEAM CONNECTIONS BETWEEN STIFFENERS

SECTION SHOWING GUSSETS AND FLOOR BEAM CONNECTIONS AT STIFFENERS



END VIEW

WELDING DETAIL

THIS DETAIL FOR BOTH ENDS

ISSUE Nº DATE

GRAND TRUNK WESTERN RAILROAD

SIX MILE ROAD GRADE SEPARATION

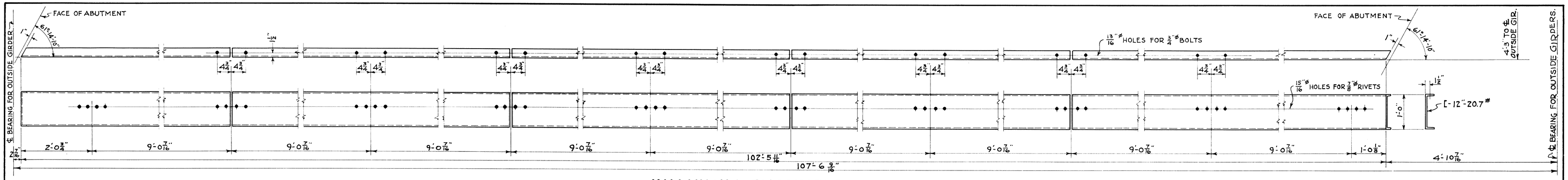
HIGHLAND PARK - DETROIT

WAYNE COUNTY, MICH.

STRUCTURAL STEEL GIRDER DETAILS

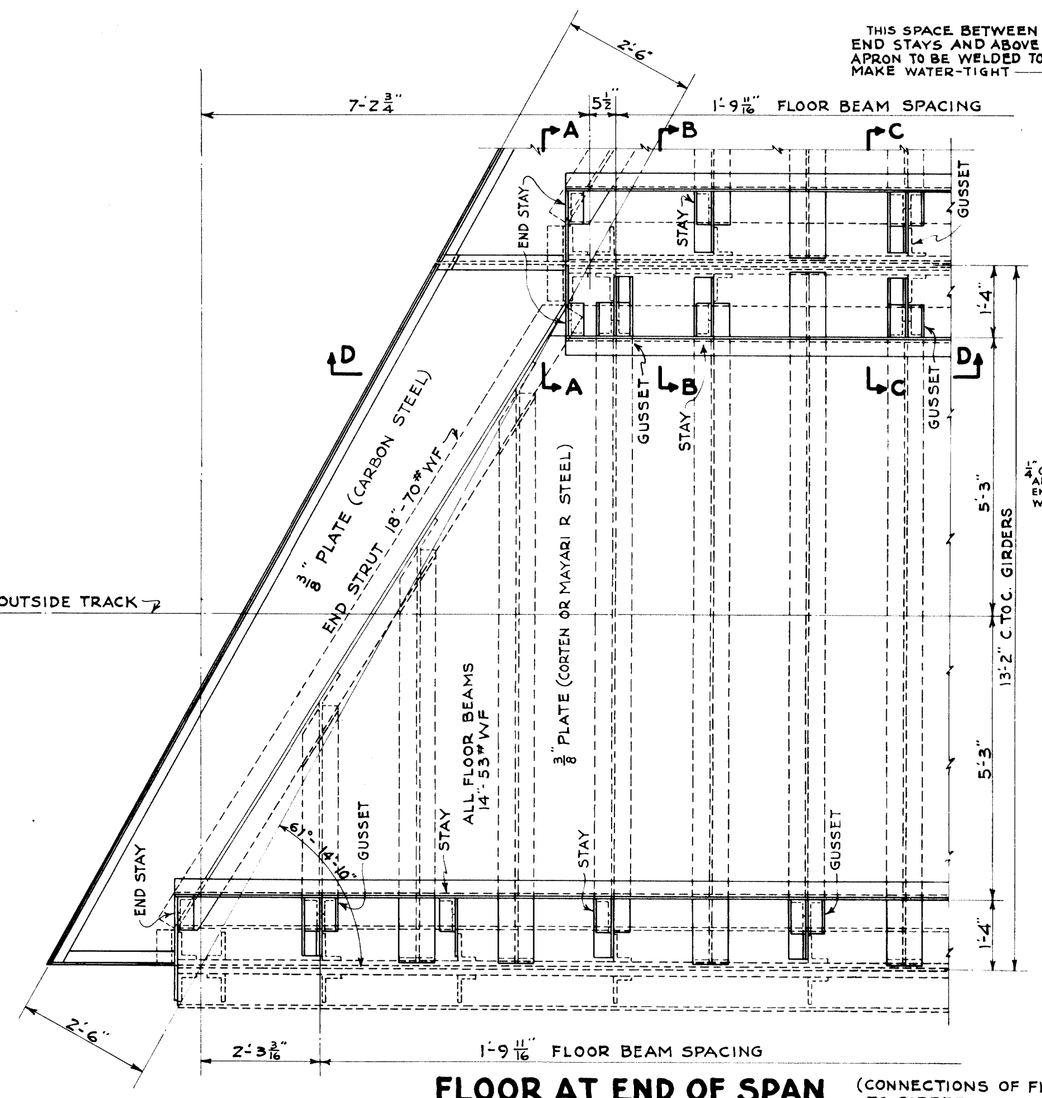
SCALE: 3/4" = 1'-0"

DR. R.E.M.	OFFICE OF CHIEF ENGINEER	JOURNAL NO.
TR. L.W.S.	DETROIT, MICHIGAN.	W.- 6356
CH. T.H.J.	MARCH 7, 1941.	FILE



WALKWAY CHANNELS

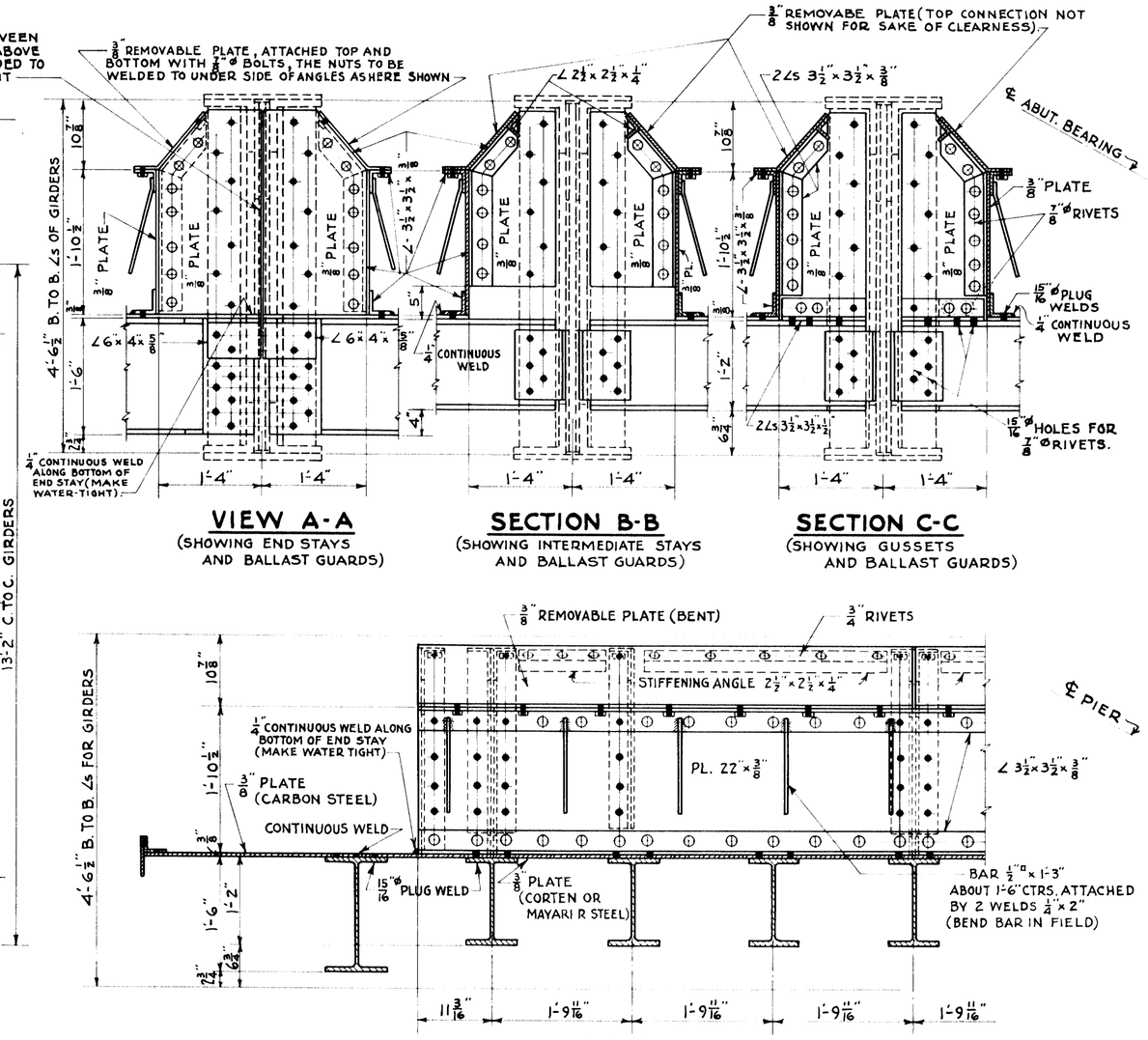
2 SETS REQUIRED, EACH AS SHOWN



FLOOR AT END OF SPAN

SCALE: ½ IN. = 1 FT.

(CONNECTIONS OF FLOOR BEAMS TO GIRDERS, AS WELL AS REMOVABLE PLATES, NOT SHOWN)



VIEW A-A

(SHOWING END STAYS AND BALLAST GUARDS)

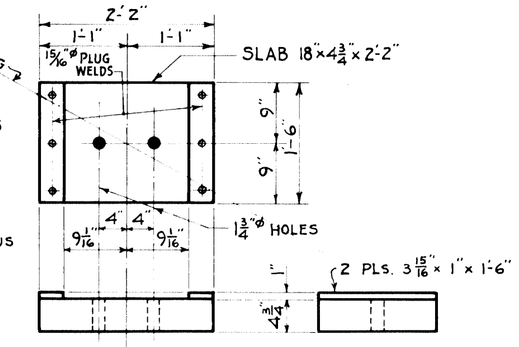
SECTION B-B

(SHOWING INTERMEDIATE STAYS AND BALLAST GUARDS)

SECTION C-C

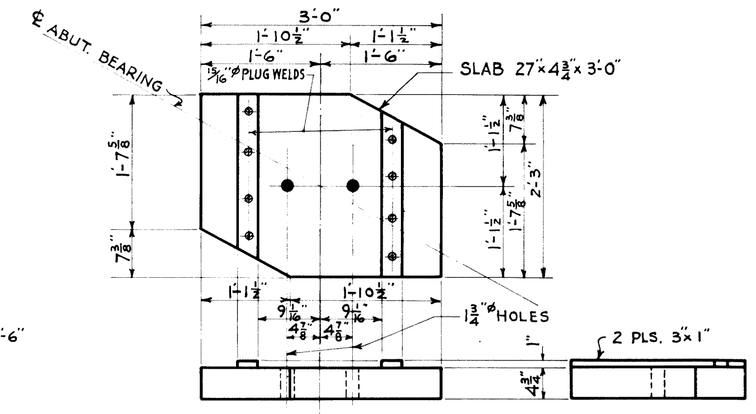
(SHOWING GUSSETS AND BALLAST GUARDS)

SECTION D-D



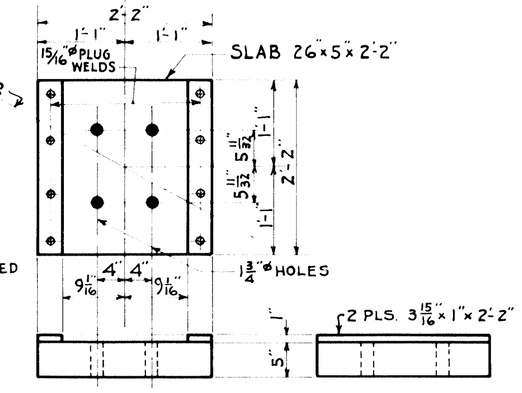
BEARING B1

4 REQUIRED



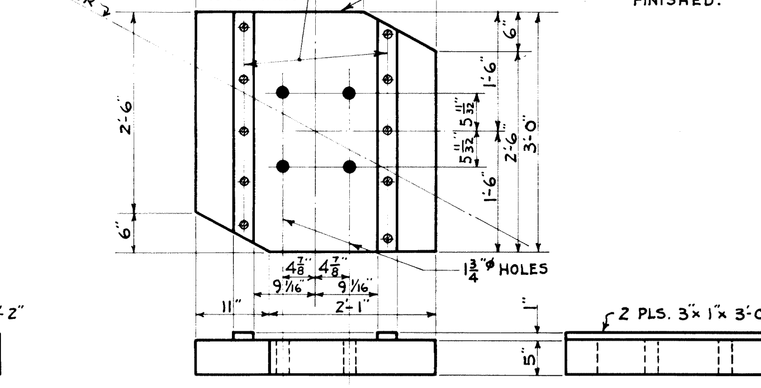
BEARING B2

6 REQUIRED



BEARING B3

2 REQUIRED



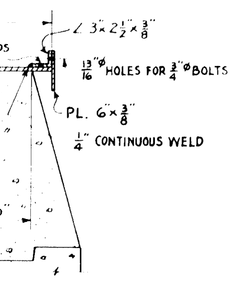
BEARING B4

3 REQUIRED

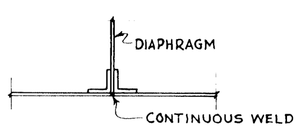
NOTE: ALL BEARINGS ARE TO HAVE TOP BEARING SURFACES, AS WELL AS INSIDE EDGES OF GUIDE STRIPS, FINISHED IN DIRECTION PARALLEL TO CENTER LINE OF GIRDERS. BOTTOM SURFACES ALSO ARE TO BE FINISHED.

END STRUT, APRON, MAIN FLOOR PLATE AND MISC. CONNECTIONS

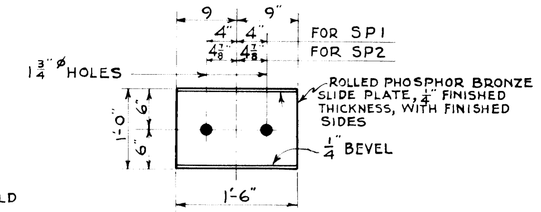
(GUSSETS, STAYS, AND BALLAST GUARDS NOT SHOWN)



DETAIL OF JOINT IN FLOOR PLATE



DETAIL OF JOINT IN VERTICAL PLATE OF BALLAST GUARD



SLIDE PLATE

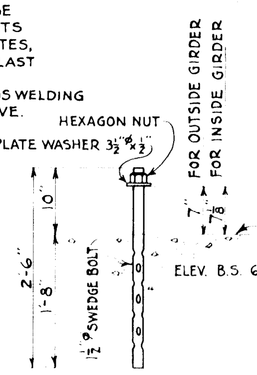
REQUIRED: 4 SP1
6 SP2

NOTE: THE STEEL FLOOR OF BRIDGE IS TO BE WATER-TIGHT. THIS REQUIRES WELDED JOINTS BETWEEN ALL FLOOR PLATES AND APRON PLATES, AND TO CONNECT THESE PLATES WITH BALLAST GUARDS, END STAYS, AND STOP ANGLES. THE VARIOUS NOTES CALLING FOR ¼" CONTINUOUS WELDING HAVE THIS WATER-TIGHTNESS AS OBJECTIVE.

TURNED BOLTS

7/8"ø, EACH WITH 2 - ½" THICK WASHERS FOR CONNECTING ABUTTING GIRDERS AT CENTER PIER, AND FOR CONNECTING END STRUTS TO GIRDERS.

REQUIRED: 82 BOLTS 4" LONG.
128 BOLTS 3¾" LONG.



ANCHOR BOLT

40 REQUIRED

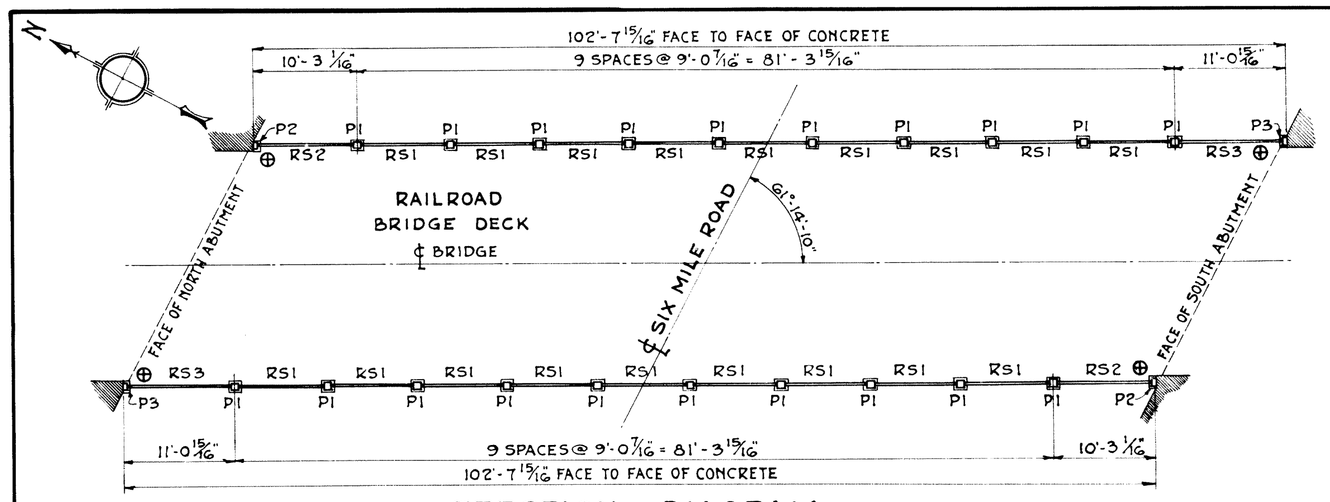
ISSUE Nº DATE

GRAND TRUNK WESTERN RAILROAD
SIX MILE ROAD GRADE SEPARATION
HIGHLAND PARK - DETROIT
WAYNE COUNTY, MICH.

STRUCTURAL STEEL MISCELLANEOUS DETAILS

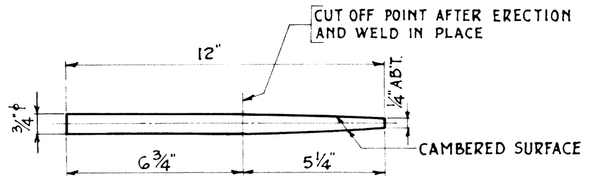
SCALE: ¾"= 1-0" EXCEPT AS NOTED

DR. R.E.M. TR. L.W.S. CH. T.H.J.	OFFICE OF CHIEF ENGINEER DETROIT, MICHIGAN. MARCH 20, 1941.	JOURNAL NO. W- 6357 FILE



ERECTION DIAGRAM

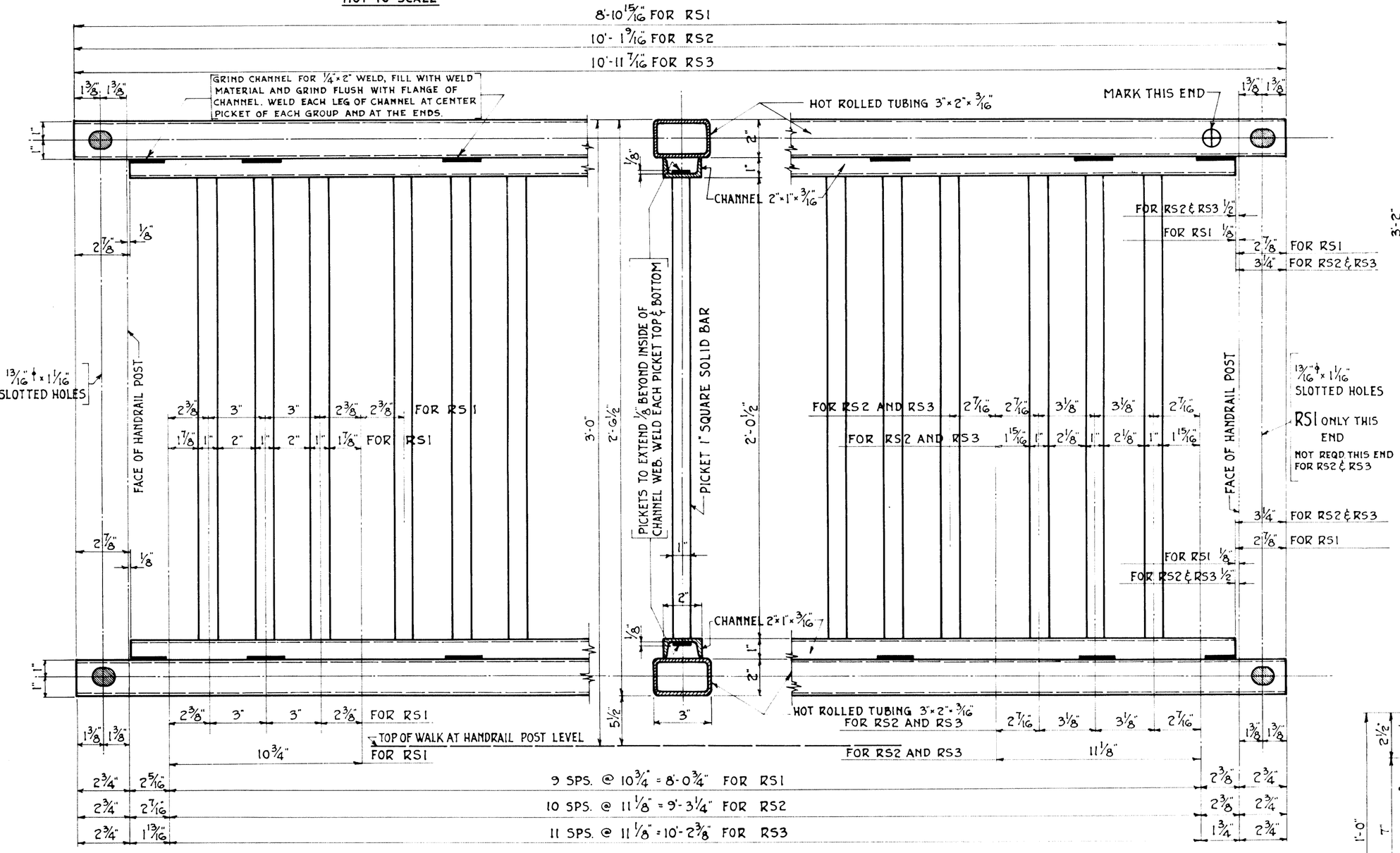
NOT TO SCALE



DETAIL OF PIN L1

SCALE: 3 IN. = 1 FT.

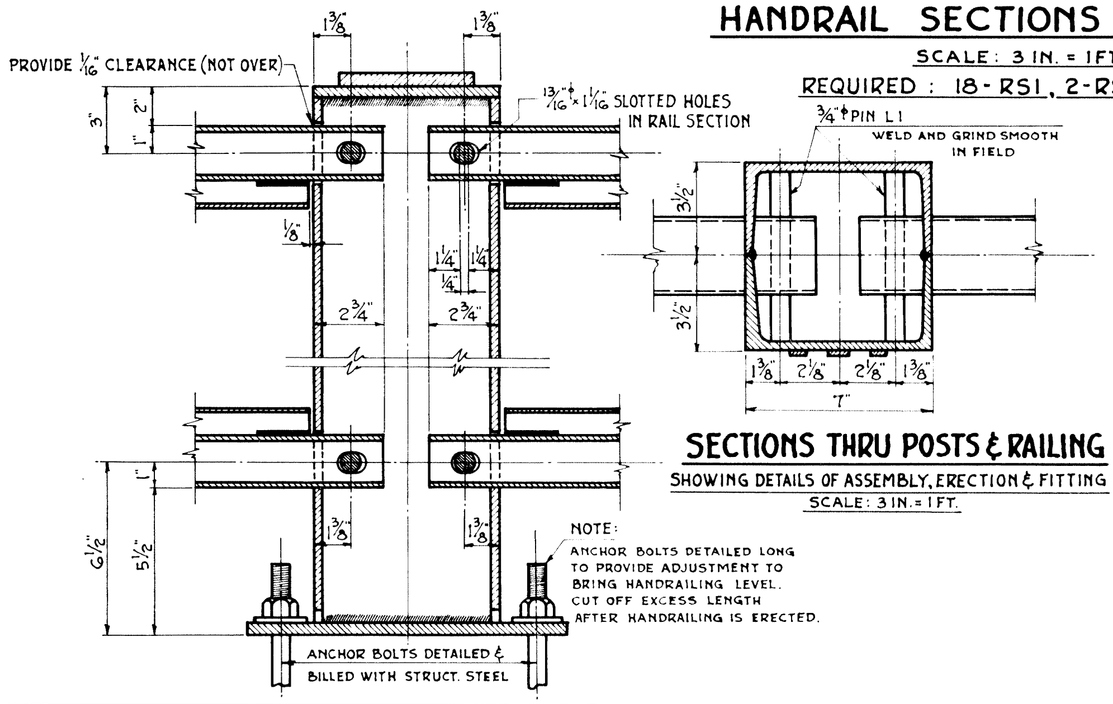
80 REQUIRED



HANDRAIL SECTIONS RS1, RS2, RS3

SCALE: 3 IN. = 1 FT.

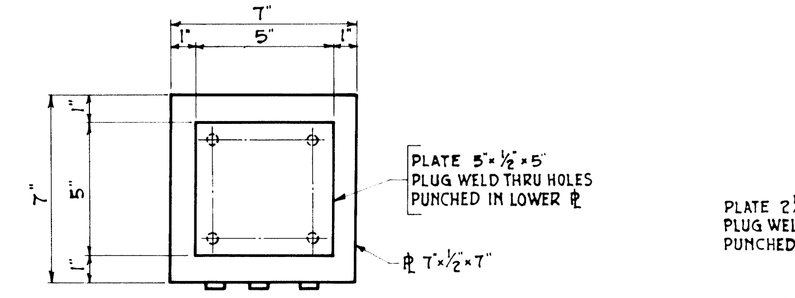
REQUIRED: 18 - RS1, 2 - RS2, 2 - RS3

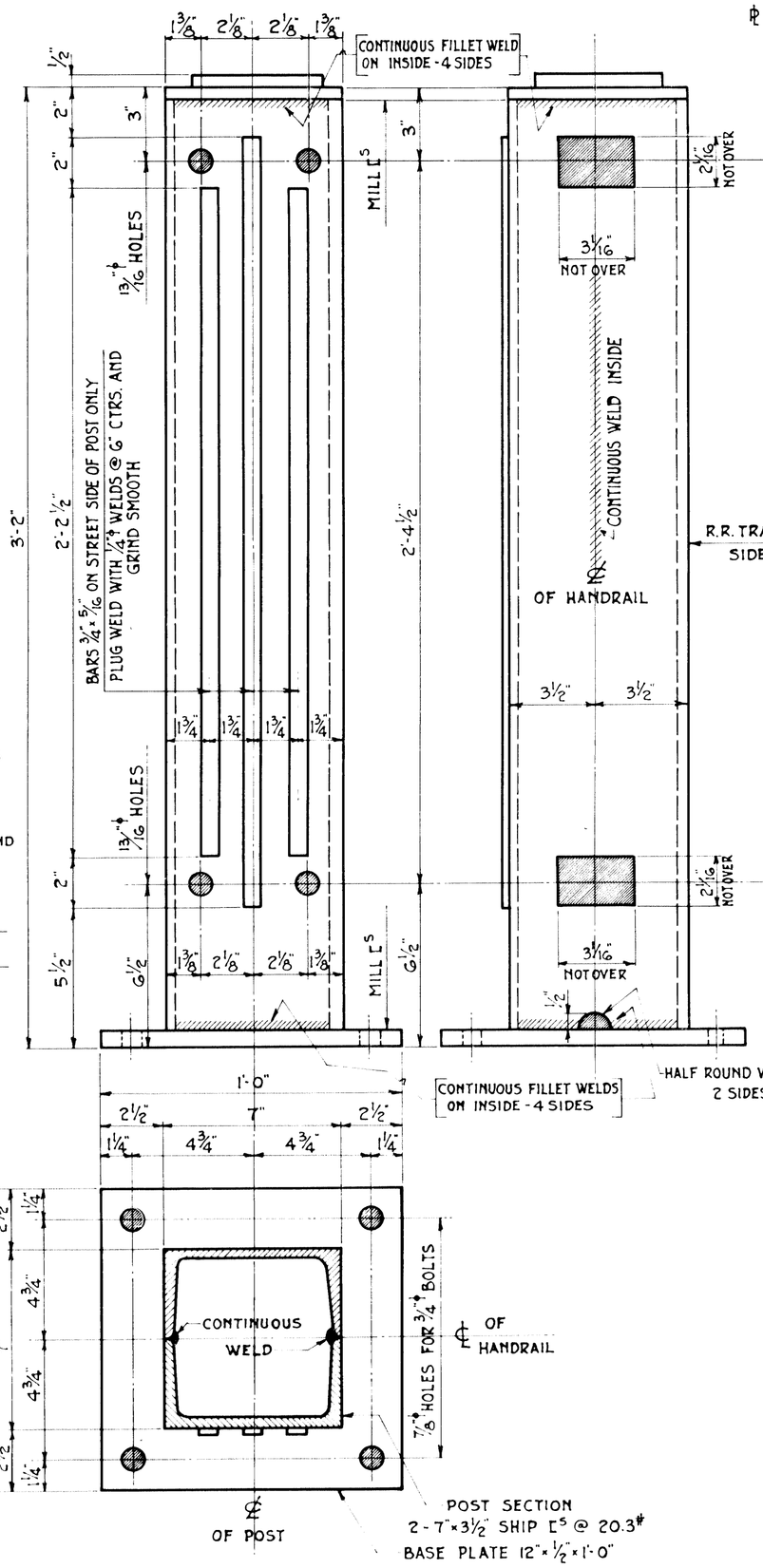


SECTIONS THRU POSTS & RAILING

SHOWING DETAILS OF ASSEMBLY, ERECTION & FITTING

SCALE: 3 IN. = 1 FT.

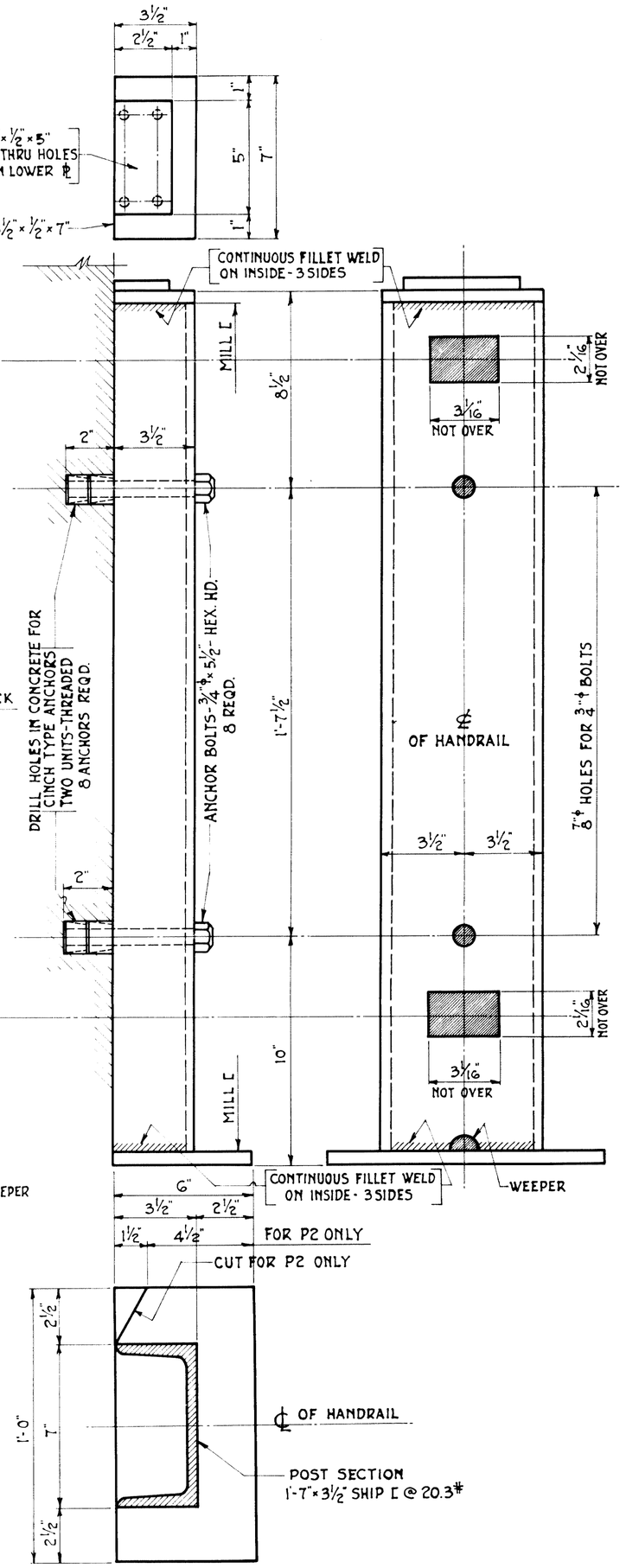




HANDRAIL POST P1

SCALE: 3 IN. = 1 FT.

20 REQUIRED



HANDRAIL POST P2 & P3

SCALE: 3 IN. = 1 FT.

REQUIRED: 2 - P2 2 - P3

GENERAL NOTES

MATERIALS: TUBING SHALL BE HOT ROLLED MILD STEEL S.A.E. SPEC. 1010. ALL OTHER MATERIAL TO BE STRUCTURAL GRADE STEEL A.S.T.M. SPEC. A-7-34.

WELDING: SHALL CONFORM TO THE BEST PRACTICE FOR FUSION WELDING. ALL WELDS SHALL BE NEATLY MADE. ON EXPOSED SURFACES THE WELDS SHALL BE GROUND FLUSH WITH THE SURFACE. SURFACES TO BE WELDED AND WELDS SHALL BE THOROUGHLY CLEANED.

FABRICATION: ALL RAILS AND POSTS SHALL BE HELD IN A TEMPLATE SO CONSTRUCTED AS TO PREVENT DISTORTION DURING WELDING.
SLOTS AND PIN HOLES SHALL BE CUT IN POSTS AFTER THE RAILING SECTIONS ARE COMPLETED SO THAT THE CORRECT LOCATION OF PIN HOLES MAY BE MADE.
THE CLEARANCE TO PERMIT SLIDING IN THE WALL OF THE POST SHALL BE HELD TO A MINIMUM.

SHOP ASSEMBLY: RAILING AND POSTS SHALL BE ASSEMBLED IN THE SHOP AND MATCH MARKED FOR FIELD ERECTION.

PAINTING: SEE CONTRACT DOCUMENTS.

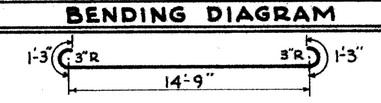
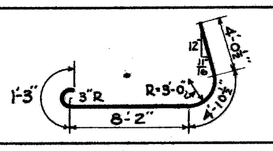
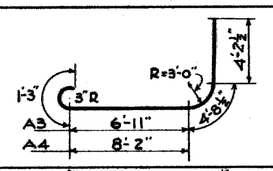
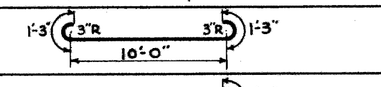
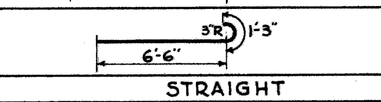
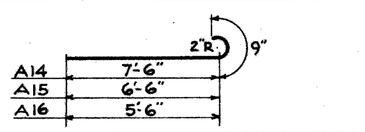
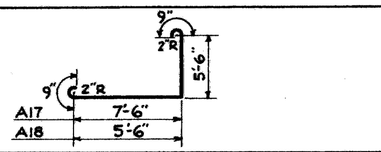
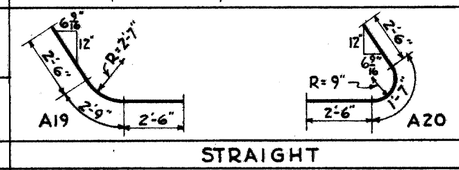
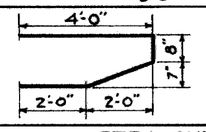
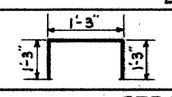
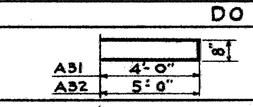
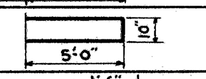
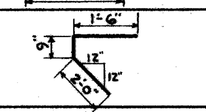
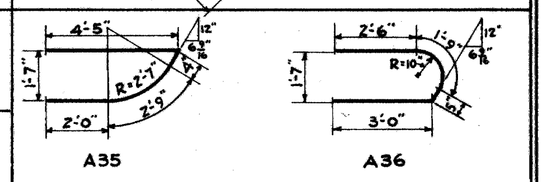
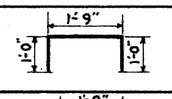
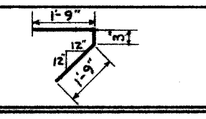
ISSUE Nº DATE

GRAND TRUNK WESTERN RAILROAD
SIX MILE ROAD GRADE SEPARATION
HIGHLAND PARK - DETROIT
WAYNE COUNTY, MICH.
BRIDGE HANDRAILING DETAILS

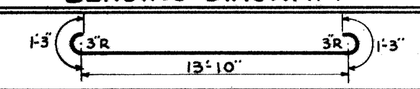
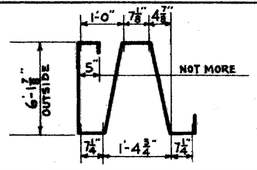
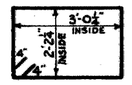
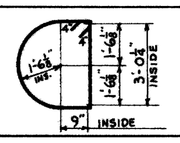
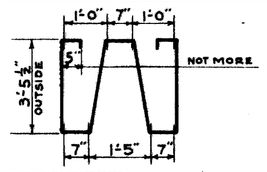
SCALES AS NOTED

DR. T.H.J. & R.E.M.	OFFICE OF CHIEF ENGINEER	JOURNAL Nº
TR L.E.B.	DETROIT, MICHIGAN	W-6358
CH. T.H.J.	JAN. 22, 1941	FILE

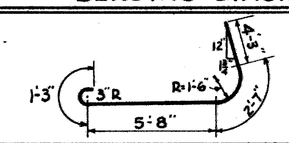
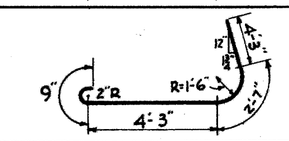
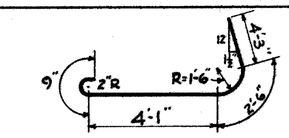
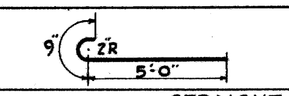
BAR LIST - ABUTMENTS

MARK	No REQ'D.	SIZE	TOT. LENGTH	BENDING DIAGRAM
A1	134	1" □	17'-3"	
A2	118	1" □	18'-4"	
A3	12	1" □	17'-1"	
A4	6	1" □	18'-4"	
A5	26	1" □	12'-6"	
A6	268	⅞" ϕ	7'-9"	
A7	80	#4 bar ¼" ϕ	20'-6"	STRAIGHT
A8	6	#4 bar ¼" ϕ	18'-0"	DO
A9	6	#4 bar ¼" ϕ	13'-0"	DO
A10	10	#4 bar ¼" ϕ	8'-0"	DO
A11	344	#4 bar ¼" ϕ	4'-0"	DO
A12	138	#4 bar ¼" ϕ	22'-0"	DO
A13	106	#4 bar ¼" ϕ	12'-0"	DO
A14	72	#6 bar ⅜" ϕ	8'-3"	
A15	34	#6 bar ⅜" ϕ	7'-3"	
A16	38	#6 bar ⅜" ϕ	6'-3"	
A17	38	#6 bar ⅜" ϕ	14'-6"	
A18	38	#6 bar ⅜" ϕ	12'-6"	
A19	34	#6 bar ⅜" ϕ	7'-9"	
A20	34	#6 bar ⅜" ϕ	6'-7"	
A21	132	#8 bar ½" ϕ	9'-6"	STRAIGHT
A22	134	#8 bar ½" ϕ	16'-9"	DO
A23	120	#8 bar ½" ϕ	19'-6"	DO
A24	118	1" □	17'-3"	DO
A25	116	#6 bar ⅜" ϕ	8'-9"	
A26	60	#6 bar ⅜" ϕ	6'-0"	STRAIGHT
A27	146	#6 bar ⅜" ϕ	5'-0"	DO
A28	72	#4 bar ¼" ϕ	3'-9"	
A29	60	#6 bar ⅜" ϕ	19'-0"	STRAIGHT
A30	98	#6 bar ⅜" ϕ	7'-8"	DO
A31	4	#6 bar ⅜" ϕ	8'-8"	
A32	6	#6 bar ⅜" ϕ	10'-8"	
A33	6	#6 bar ⅜" ϕ	10'-10"	
A34	8	#6 bar ⅜" ϕ	4'-3"	
A35	16	#6 bar ⅜" ϕ	9'-6"	
A36	16	#6 bar ⅜" ϕ	7'-8"	
A37	100	#6 bar ⅜" ϕ	3'-9"	
A38	78	#6 bar ⅜" ϕ	3'-9"	

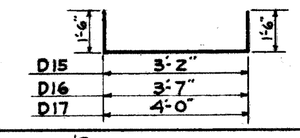
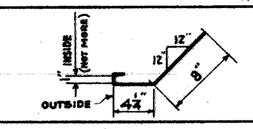
BAR LIST - CENTER BENT

MARK	No REQ'D.	SIZE	TOT. LENGTH	BENDING DIAGRAM
B1	144	1" □	16'-4"	
B2	16	1¼" □	40'-0"	STRAIGHT
B3	4	1¼" □	30'-0"	DO
B4	4	1¼" □	20'-0"	DO
B5	8	1¼" □	30'-9"	DO
B6	8	1¼" □	25'-9"	DO
B7	8	1¼" □	20'-9"	DO
B8	4	1⅛" □	40'-0"	DO
B9	4	1⅛" □	30'-0"	DO
B10	2	1⅛" □	20'-0"	DO
B11	4	1⅛" □	30'-9"	DO
B12	8	1⅛" □	25'-9"	DO
B13	8	1⅛" □	20'-9"	DO
B14	18	1" □	26'-6"	DO
B15	68	⅞" ϕ	21'-6"	
B16	114	¼" □	20'-6"	STRAIGHT
B17	86	1" □	20'-6"	DO
B18	315	½" □	11'-4"	
B19	42	½" □	10'-3"	
B20	32	¾" ϕ	17'-6"	
B21	36	1" □	26'-0"	STRAIGHT

BAR LIST - WING WALLS

MARK	No REQ'D.	SIZE	TOT. LENGTH	BENDING DIAGRAM
W1	48	#10 bar 1¼" ϕ	13'-9"	
W2	19	#10 bar 1¼" ϕ	11'-10"	
W3	57	#10 bar 1¼" ϕ	11'-7"	
W4	36	#10 bar 1¼" ϕ	5'-9"	
W5	28	#10 bar 1¼" ϕ	9'-0"	STRAIGHT
W6	111	#10 bar 1¼" ϕ	13'-6"	DO
W7	104	#10 bar 1¼" ϕ	4'-0"	DO
W8	48	#11 bar 1⅜" ϕ	18'-0"	DO
W9	24	#11 bar 1⅜" ϕ	10'-0"	DO
W10	28	#10 bar 1¼" ϕ	14'-0"	DO
W11	35	#10 bar 1¼" ϕ	14'-6"	DO
W12	36	#10 bar 1¼" ϕ	20'-0"	DO
W13	112	#8 bar 1" ϕ	8'-0"	DO
W14	246	#8 bar 1" ϕ	7'-0"	DO
W15	53	#8 bar 1" ϕ	6'-0"	DO

BAR LIST - DECK

MARK	No REQ'D.	SIZE	TOT. LENGTH	BENDING DIAGRAM
D1	8	½" ϕ	23'-0"	STRAIGHT
D2	314	½" ϕ	20'-0"	DO
D3	28	½" ϕ	17'-0"	DO
D4	8	½" ϕ	22'-0"	DO
D5	6	½" ϕ	16'-0"	DO
D6	16	½" ϕ	15'-0"	DO
D7	28	½" ϕ	12'-6"	DO
D8	8	½" ϕ	9'-6"	DO
D9	8	½" ϕ	8'-6"	DO
D10	22	½" ϕ	7'-6"	DO
D11	302	#5 bar ⅝" ϕ	4'-0"	DO BEND SOME IN FIELD
D12	20	#5 bar ⅝" ϕ	4'-4"	DO BEND SOME IN FIELD
D13	30	#5 bar ⅝" ϕ	3'-0"	DO BEND SOME IN FIELD
D14	52	#5 bar ⅝" ϕ	1'-6"	DO
D15	6	#6 bar ⅜" ϕ	6'-2"	
D16	6	#6 bar ⅜" ϕ	6'-7"	
D17	6	#6 bar ⅜" ϕ	7'-0"	
D18	16	#6 bar ⅜" ϕ	1'-4"	

TOTAL REINFORCING 118,110 LBS.

GRAND TRUNK WESTERN RAILROAD
SIX MILE ROAD GRADE SEPARATION
HIGHLAND PARK - DETROIT
WAYNE COUNTY, MICH.

LIST OF REINFORCING BARS

DR. MJB-REM TR. RPC-LWS. CH. M. J. B.	OFFICE OF CHIEF ENGINEER DETROIT, MICHIGAN. MARCH 3, 1941	JOURNAL NO. W- 6359 FILE

ISSUE No. 1 DATE 4/20/41

SHEET G16 OF 16 SHEETS

File XU103-19

NOTES BY	REVISIONS						
	DESCRIPTION	DR'N	CK'D	APV'D	DATE		
A							
B							
C							
D							
E							
F							
G							

REFERENCE DRAWINGS	
DESIGNED BY	
DRAWN BY	D.W.
TRACED BY	
CHECKED BY	
APPROVED:	
CITY ENGINEER	
ENGINEER OF DESIGN	

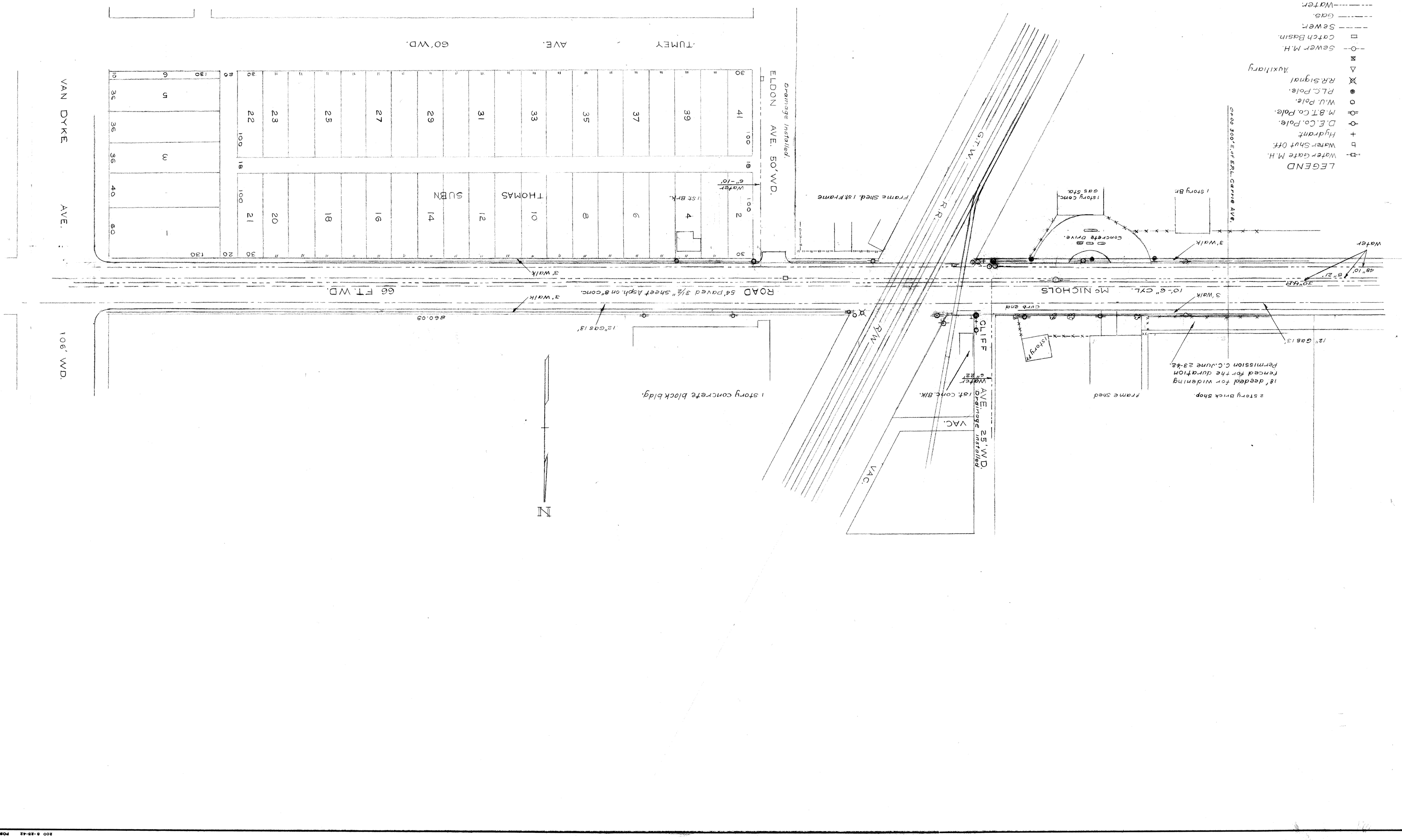
GRAND TRUNK WESTERN R.R. AT McNICHOLS RD.

INTERSECTION

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF DESIGN

SHEET 2 OF SHEETS
CONTRACT
DRWG NO

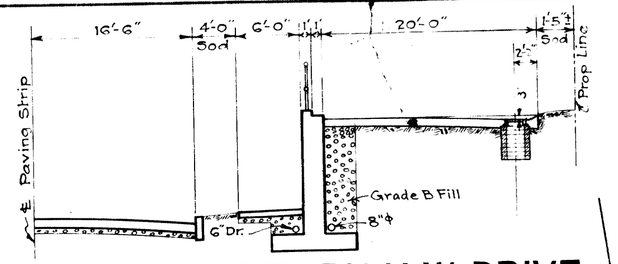
LEGEND
- Water Gate M.H.
- Water Shut Off
- Hydrant
- D.E.Co. Pole.
- M.B.T.Co. Pole.
- W.U. Pole.
- P.L.C. Pole.
- R.R. signal
- Auxiliary
- Sewer M.H.
- Catch Basin.
- Sewer
- Gas.
- Water
- Wire Fence.
- Board Fence.
- Street Sign
- Gas M.H.
- Tree



200 8-25-42 P0891194

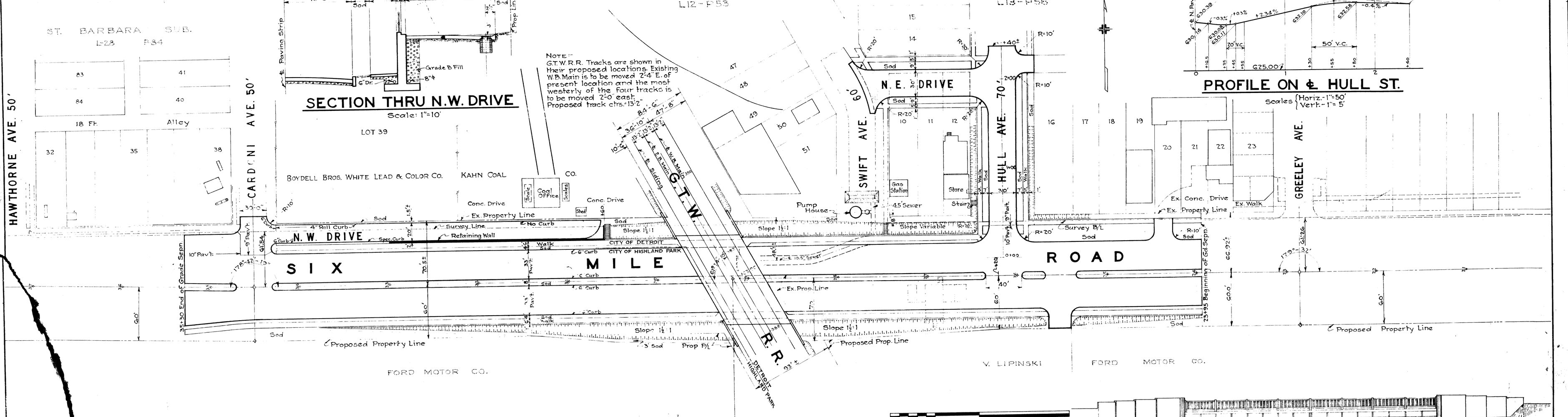
SECTION THRU N.W. DRIVE

Scale: 1"=10'



PLAN

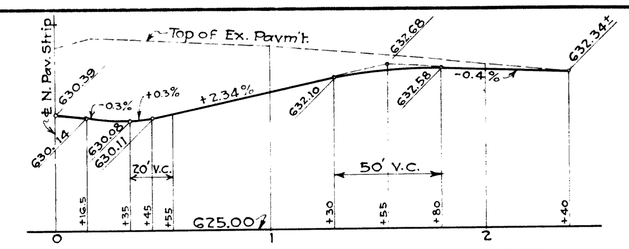
Scale: 1"=50'



GRAPHIC SCALE IN FEET

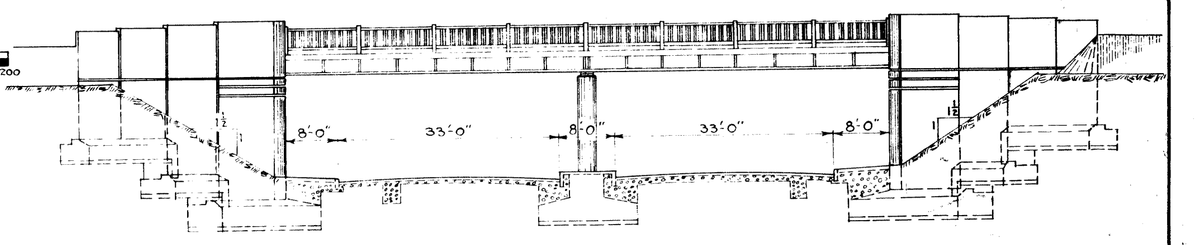
PROFILE ON ℄ HULL ST.

Scales { Horiz.- 1"=50' / Vert.- 1"=5'



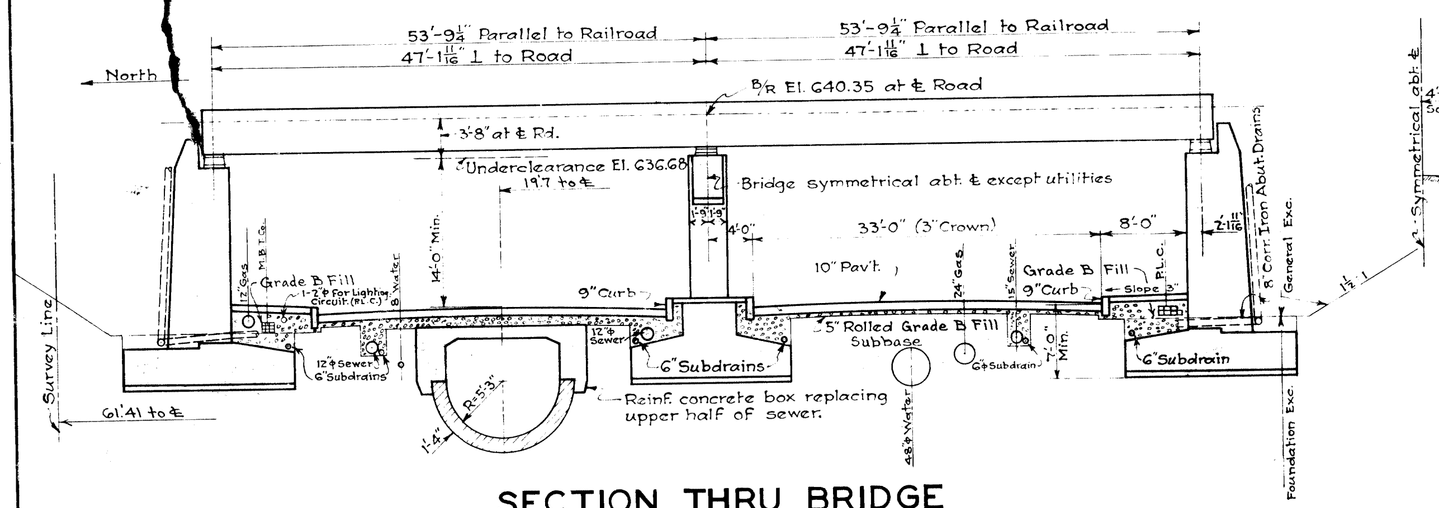
SIDE ELEVATION

Scale: 1"=10'-0"



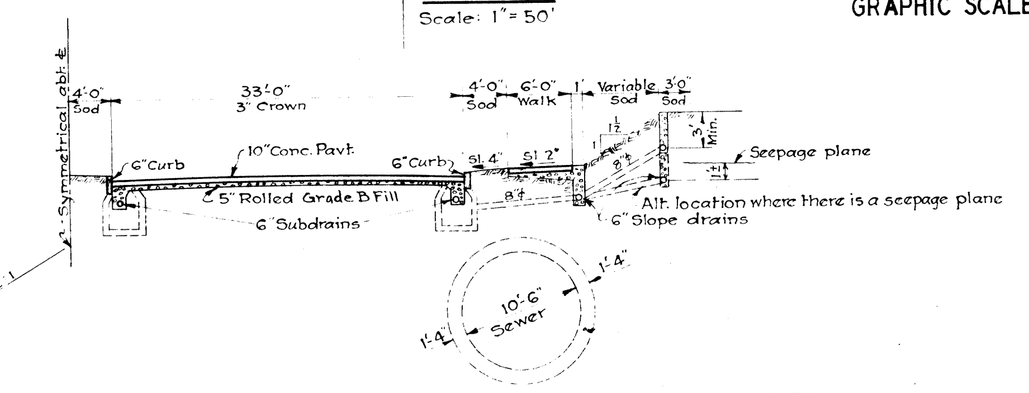
SECTION THRU BRIDGE

Scale: 1"=10'



TYPICAL SECTION OF APPROACH

Scale: 1"=10'



SECTION THRU DECK

Scale: ½" = 1'-0"

PROFILE ON ℄ OF PAVING STRIPS

Scales { Horiz.- 1"= 50' / Vert. - 1" = 5'

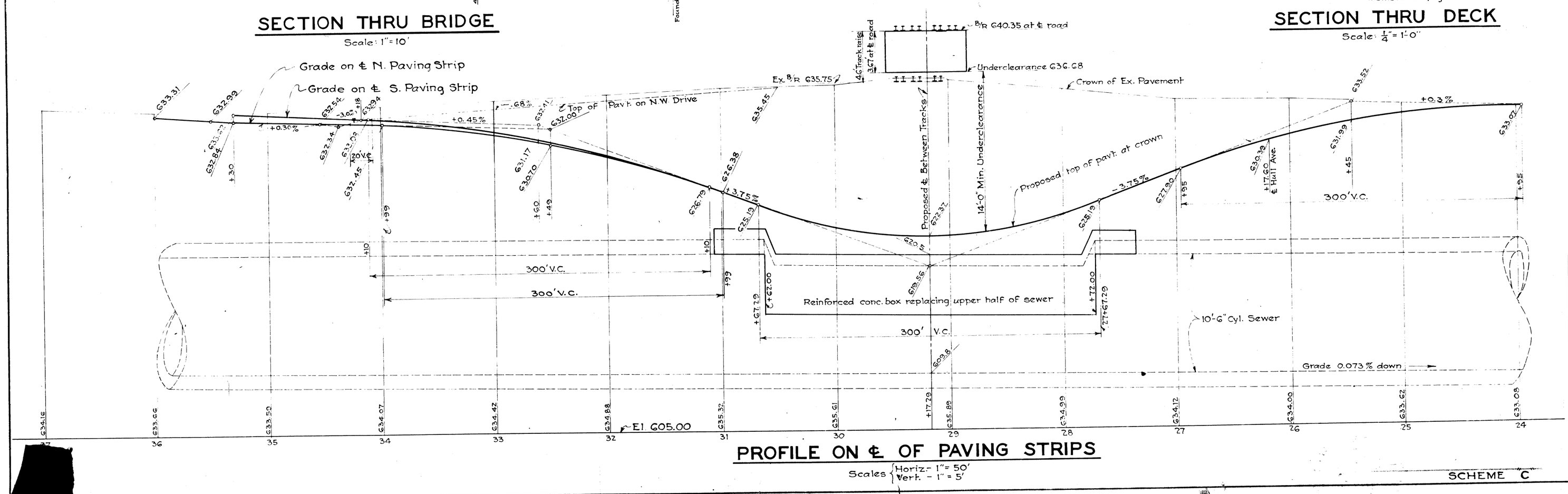


EXHIBIT "A"

Approved by _____ County Highway Engineer

Approved by _____ Chief Engineer - G.T.W.R.R.

Approved by _____ City Engineer - City of Detroit

Approved by _____ City Engineer - City of Highland Park

NOTES:-

Elevs. shown on this sheet are based on Wayne Co. Rd. Comm. Datum.

B.M. "A" - El. G36.851 - Arrow on Fire hydrant - N.W. cor. Cardoni & 6 Mi. Rd.

B.M. "E" - El. G34.849 - Arrow on Fire hydrant - N.W. cor. Riopelle & 6 Mi. Rd.

R.R. B.M.# 5 - El. G36.416 - Top of bolt, S.W. cor. N.E. Flasher 6 Mi. Rd. & G.T.W.R.R.

REVISIONS
Redrawn - M.K. 8/1940
Checker's Revisions G.G.T. 8-30-40 M.K.
Curb thru bridge & M.H. revised - M.K. 10/1/40
Sewer Location & Profile M.K. 11/1/40
B.R. R/W dimensions & M.H. corrected - M.K. 11/1/40
Misc. Revisions M.K. 4/23/41 J.W.W.
Profile, Elevation, Br. Sec. & Plan Revised 6/1/41 M.K. J.W.W.

JOB No. 554

ISSUE NO. 1 of 1

BOARD OF WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN

JOHN F. BREINING, COMMISSIONER
CHARLES L. WILSON, CHAIRMAN
MICHAEL J. O'BRIEN, VICE-CHAIRMAN

GENERAL DRAWING
SIX MILE ROAD - G.T.W.R.R. HOLLEY DIV.
GRADE SEPARATION

DESIGNED BY _____ DRAWN BY J.W.C. & M.K. CHECKED BY F.H.C. & H.W.

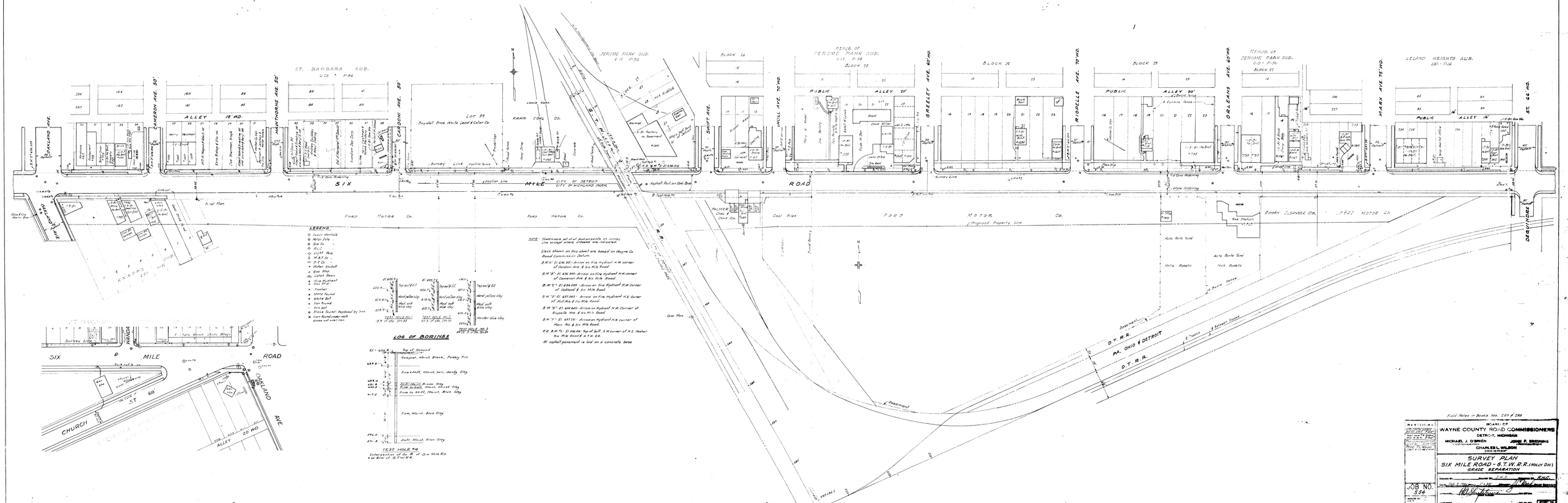
DATE 4-1-40 SCALE As Shown CORRECT _____ CHIEF DESIGNER

APPROVED _____ BRIDGE ENGINEER _____ REG. CIV. ENG.

APPROVED _____ COUNTY HIGHWAY ENGINEER _____ REG. CIVIL ENG.

SHEET NO. 1 of 1

SCHEME "C"


ST. BARBARA SUB. L-23 • P-84
JEROME PARK SUB. L-11 P-52
RESUB. OF JEROME PARK SUB. L-11 P-54
LELAND HEIGHTS SUB. L-35 • P-42
OAKLAND AVE.
CAMERON AVE. 50'
HAWTHORNE AVE. 50'
CARSON AVE. 50'
SWIFT AVE.
HULL AVE. 70 WD.
GRELLE AVE. 60' WD.
RIOPELLE AVE. 70' WD.
ORLEANS AVE. 60' WD.
MARK AVE. 75' WD.
ALLEY 18' WD.
PUBLIC ALLEY 20'
PUBLIC ALLEY 16'
Lot 39
Baydoll Bros. White Lead & Color Co.
KAHN COAL CO.
G.T.W. R.R.
SIX MILE ROAD
CITY OF DETROIT
CITY OF HIGHLAND PARK
Survey Line
Location Line
Property Line
Proposed Property Line
Asphalt Pvmt on Gravel Base
Asphalt Pvmt on Conc. Base
Concrete Pvmt
Gravel Surface
Curb Cut
Conc. Walk
Conc. Steps
Fence
Wood Fence
Chain Link Fence
Cyclone Fence
Brick Wall
Stone Wall
Retaining Wall
Conc. Wall
Frame Bldg.
Brick Bldg.
Stone Bldg.
Garage
Shed
Coal Bins
Coal Piles
Scale House
Scales
Tipple
Trestle
Gas Station
Auto Parts Yard
Nick Rudelic
Roman Cleaner Co.
Ford Motor Co.
Ford Motor Co.
Palmer Coal & Coke Co.
Kahn Coal Co.
Ford Motor Co.
D.T.R.R.
PA. OHIO & DETROIT
D.T.R.R.
Embankment
Cut
Fill
Cut Slope
Fill Slope
Top of Bank
Toe of Slope
Ditch
Culvert
Catch Basin
Manhole
Gate Valve
Hydrant
Power Pole
Guy Wire
Light Pole
Telephone Pole
Sign
Flag Pole
Bench Mark
Iron Found
Iron Set
Stake Found
Stake Set
Cross Cut
Conc. Mon.
Iron Found under rock
Cross cut over iron
N. 0°-00'-00" E.
N. 89°-58'-00" E.
N. 0°-00'-00" E.
N. 89°-58'-00" E.
N. 0°-00'-00" E.
N. 89°-58'-00" E.

BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
JOHN F. ...
HOWARD A. CISSELL, Managing Director
...

REVISIONS

JOB NO. ...

N. E. DRIVE

SWIFT AVE.

HULL AVE

CAROLYN AVE.

HAWTHORNE AVE.

SELECT AVE.

SIX MILE ROAD

G.T.W.

R.R.

UTILITIES PRIOR TO GRADE SEPN.

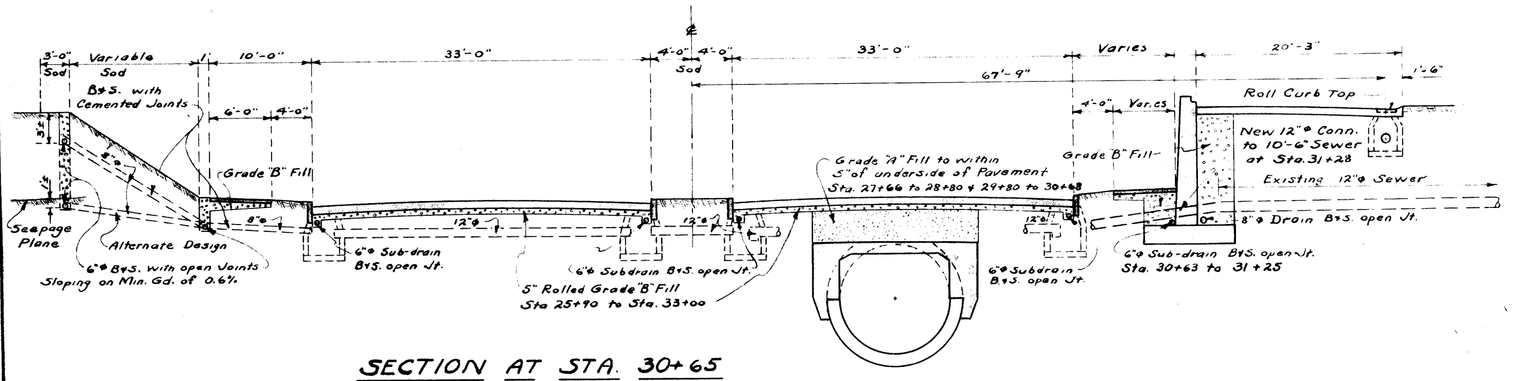
UTILITIES SUBSEQUENT TO GRADE SEPN.

SECTION AT STA. 53+20

SECTION AT STA. 45+78

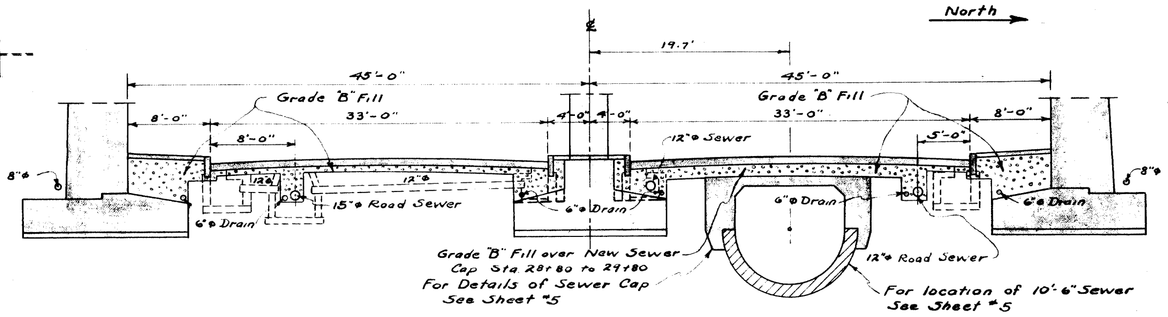
CROSS SECTION AT PRICE WORK-FORCE LINE
AT CUT CONTROLLING

LEGEND
- ⊕ SEWER MAN
- ⊕ GAS VALVE
- ⊕ WATER VALVE
- ⊕ FIRE HYDRANT
- ⊕ TELEPHONE



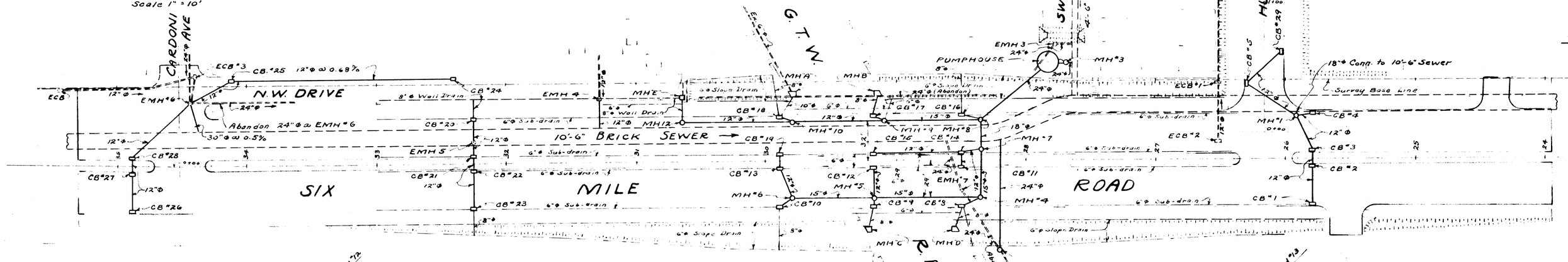
SECTION AT STA. 30+65

Scale 1" = 10'



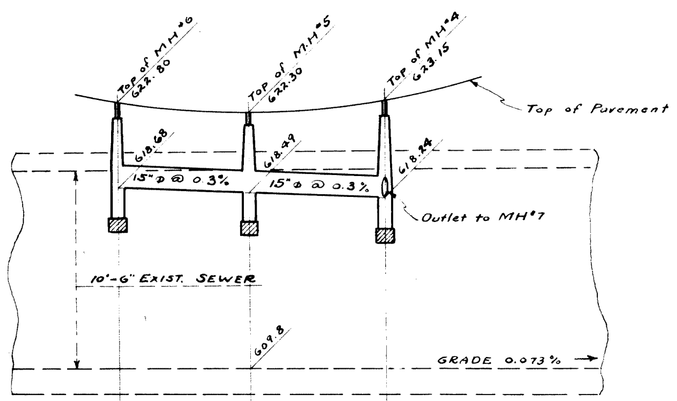
SECTION AT STA. 29+10

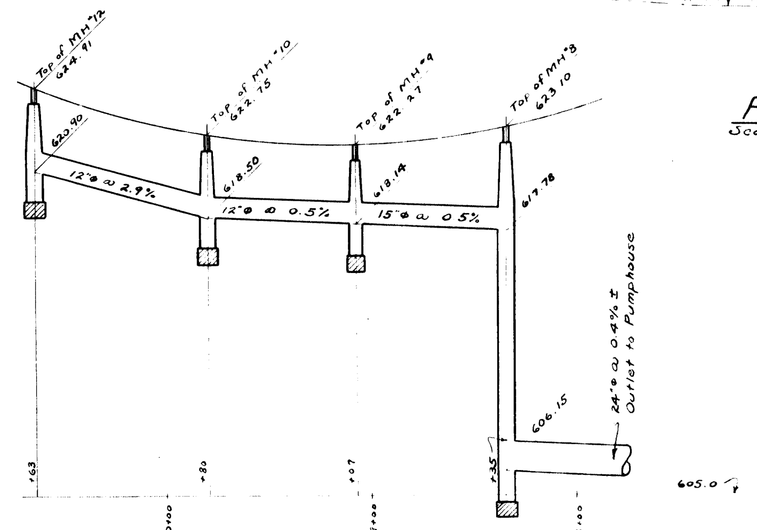
Scale 1" = 10'-0"



LEGEND

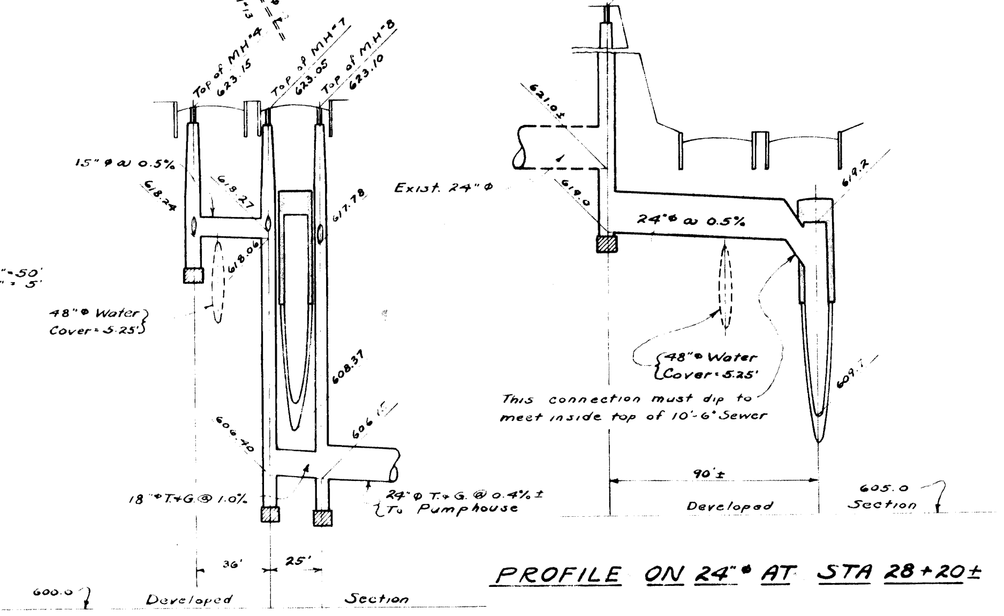
Existing Manhole	EMH
Proposed "	MH
Existing Catch Basin	ECB
Proposed "	CB
Existing Sewer	
Prosposed "	
" Sub-drain	





PLAN

Scale 1" = 50'



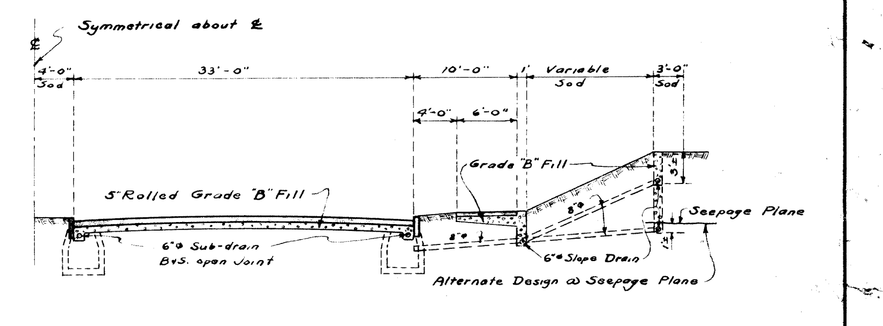
Scales
Horizontal - 1" = 50'
Vertical - 1" = 5'

PROFILE ℄ OF SEWER MH #6 TO MH #4

PROFILE ℄ OF SEWER MH #12 TO MH #8

PROFILE ON 24"ø AT STA 28+20±

PROFILE ℄ OF SEWER MH #4 TO MH #8



TYPICAL HALF-SECTION OF APPROACH

Scale: - 1" = 10'-0"

STRUCTURE LIST

Drainage Structure	Station	Elev. of Top	Elev. of Outlet Inv.	Stand. Sheet No.	"a"	Remarks
EMH #3	27+78					Abandon + Plug Outlet
EMH #4	31+28					Remove + Plug Outlet
EMH #5	32+26	630.4	610.0			Reset Top
EMH #6	34+45	632.5±	617.3±			Reset Top
EMH #7	28+50					Remove
MH #1	25+93	630.90	620.1	S-3d	10.8	Top 10'-6" Sewer
MH #2	N.E. Drive 0+98	633.0±	As found	S-3d		Build on Exist. 12"ø Sewer
MH #3	27+68.84	634.2±	618.20	S-3b	16.00	See Sheet #6
MH #4	28+35	623.15	618.24	S-3e	4.91	
MH #5	29+17.29	622.30	618.49	S-3e	3.81	
MH #6	29+80	622.80	618.68	S-3e	4.12	
MH #7	28+35	623.03	606.90	S-3e	16.15	
MH #8	28+35	623.10	606.15	S-3e	16.95	
MH #9	29+07	622.27	618.14	S-3e	4.13	
MH #10	29+80	622.75	618.50	S-3e	4.25	
MH #12	30+63	624.91	620.90	S-3e	4.01	
MH #13	28+20	635.0±	619.0	S-3d	16.0	Ford Co. Sewer
				Plug	Existing	24"ø Outlet
ECB #1	26+52				Remove +	Plug Outlet
ECB #2	26+51				"	" "
ECB #3	34+40±					Place New MH Top
CB #1	25+80	631.1±	627.85	S-3f	3.25	Without Trap
CB #2	25+80	631.2±	627.68	S-3f	3.52	" "
CB #3	25+80	631.2±	627.63	S-3f	3.57	
CB #4	26+80	631.1±	627.85	S-3f	3.25	
CB #5	Hull Ave. 0+65	629.8±	626.55	S-3c	3.25	
CB #6	N.E. Drive 0+40	632.3±	629.05	S-3b	3.25	

STRUCTURE LIST

Drainage Structure	Station	Elev. of Top	Elev. of Outlet Inv.	Stand Sheet No.	"a"	Remarks
CB #7	N.E. Drive 0+40	632.3±	628.9	S-3c	3.40	
CB #8	28+50	622.69	618.4	S-3b	4.29	
CB #9	29+17.29	622.12	618.60	S-3f	3.52	Without Trap
CB #10	29+90	622.79	619.54	S-3b	3.25	
CB #11	28+50	622.69	618.4	S-3b	4.29	
CB #12	29+17.29	622.12	619.54	S-3f	2.58	
CB #13	29+90	622.79	618.75	S-3b	4.04	
CB #14	28+50	622.69	618.35	S-3b	4.34	
CB #15	29+17.29	622.12	619.54	S-3f	2.58	
CB #16	28+50	622.69	619.44	S-3b	3.25	
CB #17	29+17.29	622.12	618.25	S-3f	3.87	Without Trap
CB #18	29+90	622.79	618.6	S-3b	4.19	
CB #19	29+90	622.79	618.78	S-3b	4.01	
CB #20	32+25	630.12	626.87	S-3f	3.25	
CB #21	32+25	630.12	626.65	S-3f	3.47	
CB #22	32+25	630.12	626.70	S-3f	3.42	Without Trap
CB #23	32+25	630.12	626.87	S-3f	3.25	" "
CB #24	N.W. Drive 33+30	633.84	630.64	S-3b	3.25	Roll Curb Casting
CB #25	N.W. Drive 34+25±	632.5±	629.25	S-3c	3.25	Roll Curb Casting
CB #26	34+90	633.2±	629.95	S-3b	3.25	
CB #27	34+90	633.1±	629.78	S-3b	3.32	
CB #28	34+90	632.7±	629.45	S-3c	3.25	
CB #29	Hull Ave. 0+65	630.6±	627.35	S-3b	3.25	

See S.H.D. Std E-4-41-27c

QUANTITIES

30"ø Reinf. Concrete Culvert Pipe (Bell + Spigot)	25	Lin. Ft.
18"ø " " " " (Tongue + Groove)	33	" "
12"ø " " " " (Bell + Spigot)	1165	" "
15"ø " " " " (Bell + Spigot)	455	" "
8"ø Std. Sewer Pipe Connection to Slope Drains (B+S)	160	" "
8"ø " " " " " Retaining Wall Drains (B+S)	25	
8"ø " " " Back of Retaining Wall (B+S)	270	" "
6"ø " " " Subdrain under Pavement "	2120	" "
6"ø " " " " on Pier Footings "	260	" "
6"ø " " " " " Abut. "	160	" "
6"ø " " " " " Ret. Wall Ftg. "	60	" "
6"ø " " " " in Sewer Trench "	375	" "
6"ø " " " Slope Drains (B+S)	1975	" "
Manholes	12	
Catch Basins	29	
24"ø Reinf. Concrete Culvert Pipe (Tongue + Groove)	65	Lin. Ft.
24"ø " " " (Bell + Spigot)	715	" "
Cast Iron Traps	7	

NOTES

Specifications:- Board of Wayne County Road Commissioners General Specifications dated May 1st 1940 and Supplementary Specifications for Job #554

Subdrains:- Shall be laid in the trenches of all main Sewers where gravel Sub-base is called for; Sta 25+90 to 33+00. Subdrains shall be connected to the drainage system at their lower ends only.

Slope Drains:- Quantities are approximate only and cannot be determined accurately until general Cut is made.

Trench Backfill:- Shall conform with Section 106 of the General Specifications. Where Sewers and Subdrains occur in the same trench, backfill shall be special fill material - Grade 'B'.

The corrugated iron abutment drains within the limits of the footings and the connections from the Abut. manholes to the roadway catch Basins are shown on the masonry plans and are a part of the Bridge Contract.

Manholes A, B, C + D behind Abutments are included in the bridge Construction. Manhole E behind retaining wall is included in Wall Construction.

For Pump House Details see Sheet #6

Castings for all Drainage Structures to be furnished by the Board.

For Quantities in Manholes + Catch Basins, other than those built with Abuts. and walls, see Standard Structure Sheets.

REVISIONS
Misc. Revisions Nov. 3-4-41 G.J.P.
Misc. Revisions Nov. 24-41 G.J.P.

JOB No. 554

ISSUE NO. 2
DATE 12-24-41

BOARD OF WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN

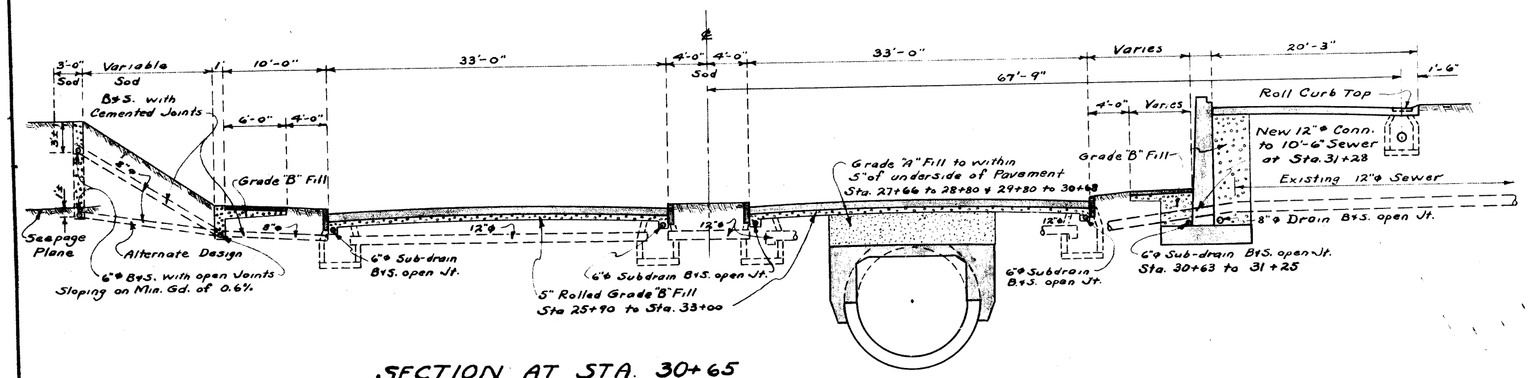
MICHAEL J. O'BRIEN, VICE-CHAIRMAN
JOHN F. BREINING, COMMISSIONER
CHARLES L. WILSON, CHAIRMAN

DRAINAGE PLAN
SIX MILE RD. ~ G.T.W.R.R. WALLEY DIVISION GRADE SEPARATION

DESIGNED BY — DRAWN BY H.W. CHECKED BY G.J.P.
DATE 12-20-40 SCALE As Shown CORRECT [signature] CHIEF DESIGNER
APPROVED [signature] BRIDGE ENGINEER — REG. CIV. ENG.
APPROVED — COUNTY HIGHWAY ENGINEER — REG. CIVIL ENG.

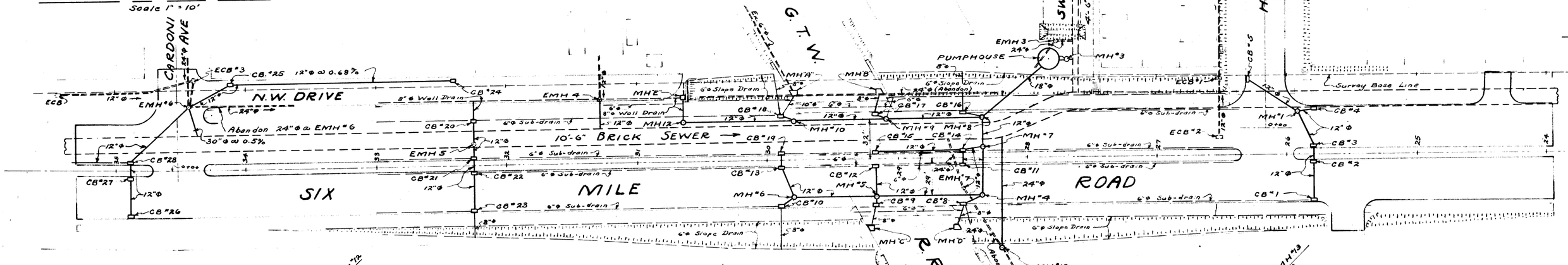
SHEET NO. 4

200 10-14-38 THE FREDERICK POST CO.



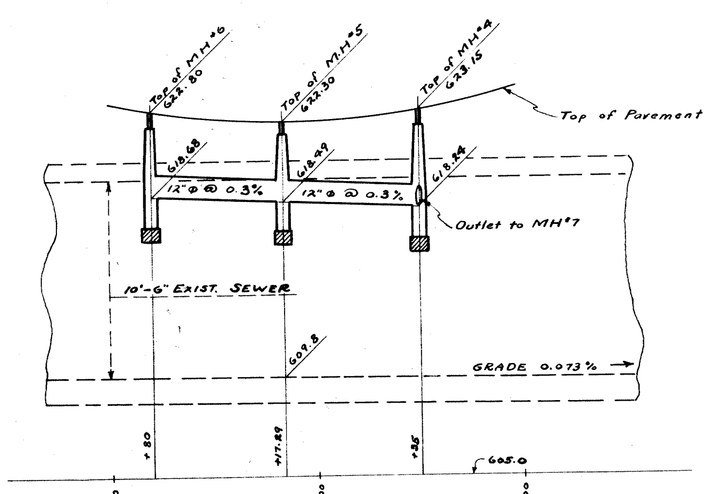
SECTION AT STA. 30+65

Scale 1" = 10'

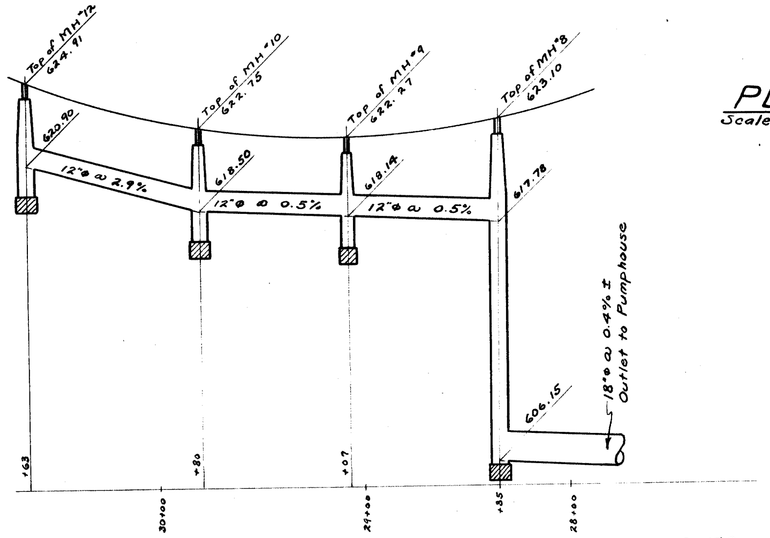


PLAN

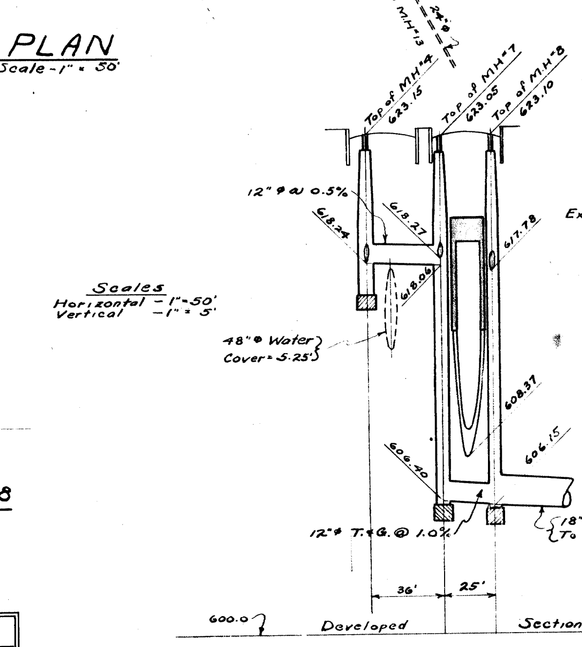
Scale - 1" = 50'

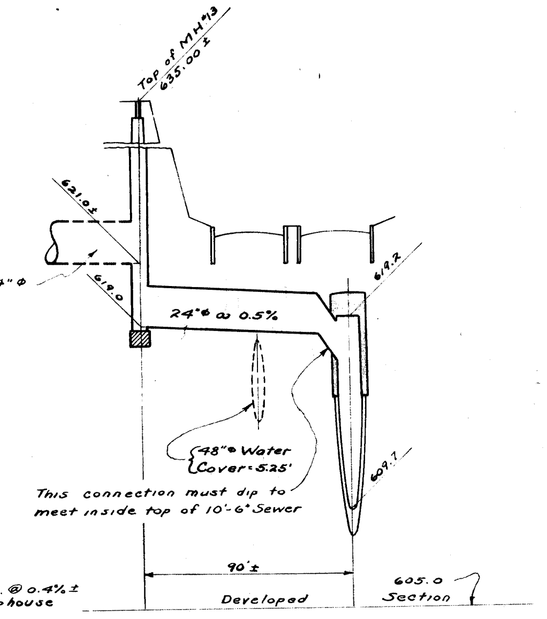


PROFILE ℄ OF SEWER MH#6 TO MH#4



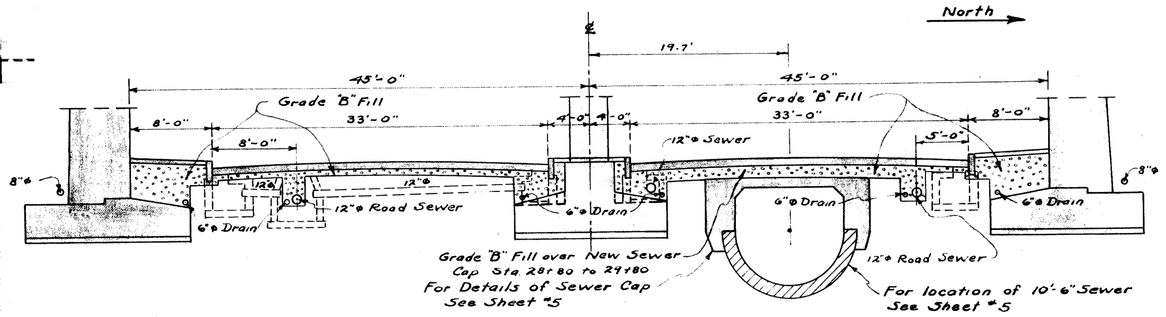
PROFILE ℄ OF SEWER MH#12 TO MH#8





PROFILE ON 24"ø AT STA 28+20±

PROFILE ℄ OF SEWER MH#4 TO MH#8

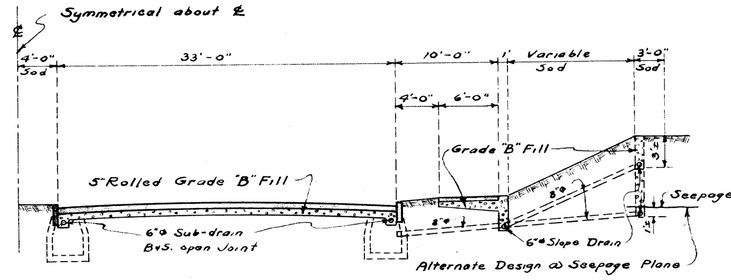


SECTION AT STA. 29+10

Scale 1" = 10'-0"

LEGEND

Existing Manhole	EMH
Proposed "	MH
Existing Catch Basin	ECB
Proposed "	CB
Existing Sewer	
Proposed "	
" Sub-drain	



TYPICAL HALF-SECTION OF APPROACH

Scale: - 1" = 10'-0"

NOTES

Specifications:- Board of Wayne County Road Commissioners General Specifications dated May 1st 1940 and Supplementary Specifications for Job#554

Subdrains:- Shall be laid in the trenches of all main Sewers where gravel Sub-base is called for; Sta. 25+90 to 33+00. Subdrains shall be connected to the drainage system at their lower ends only.

Slope Drains:- Quantities are approximate only and cannot be determined accurately until general Cut is made.

Trench Backfill:- Shall conform with Section 106 of the General Specifications. where sewers and Subdrains occur in the same trench, backfill shall be special fill material - Grade 'B'.

The corrugated iron abutment drains within the limits of the footings and the connections from the Abut. manholes to the roadway catch Basins are shown on the masonry plans and are a part of the Bridge Contract.

Manholes A, B, C & D behind Abutments are included in the bridge construction.

Manhole E behind retaining wall is included in Wall Construction.

For Pump House Details see Sheet #6

Castings for all Drainage Structures to be furnished by the Board.

For Quantities in Manholes & Catch Basins, other than those built with Abuts. and walls, see Standard Structure Sheets.

STRUCTURE LIST

Drainage Structure	Station	Elev. of Top	Elev. of Outlet Inv.	Stand. Sheet No.	"a"	Remarks
EMH #3	27+78					Abandon & Plug Outlet
EMH #4	31+28					Remove Plug Outlet
EMH #5	32+26	630.4	610.0			Reset Top
EMH #6	34+45	632.9	617.3±			Reset Top
EMH #7	28+50					Remove
MH #1	25+93	630.90	620.1	S-3d	10.8	Tap 10'-6" Sewer
MH #2	N.E. Drive 0+48	633.0±	As found	S-3d		Build on Exist. 18"ø Sewer
MH #3	27+68.84	634.2±	618.20	S-3e	16.00	See Sheet #6
MH #4	28+35	623.15	618.24	S-3e	4.91	
MH #5	29+17.29	622.30	618.49	S-3e	3.81	
MH #6	29+80	622.80	618.68	S-3e	4.12	
MH #7	28+35	623.03	606.90	S-3d	16.15	
MH #8	28+35	623.10	606.15	S-3d	16.95	
MH #9	29+07	622.27	618.14	S-3e	4.13	
MH #10	29+80	622.75	618.50	S-3e	4.25	
MH #12	30+63	629.91	620.90	S-3e	4.01	
MH #13	28+20	635.0±	619.0	S-3d	16.0	Ford Co. Sewer
				Plug	Existing	24"ø Outlet
ECB #1	26+52				Remove &	Plug Outlet
ECB #2	26+51				"	" "
ECB #3	34+40±					Reset Top
CB #1	25+80	631.1±	627.85	S-3b	3.25	
CB #2	25+80	631.2±	627.68	S-3b	3.52	
CB #3	25+80	631.2±	627.63	S-3c	3.57	
CB #4	28+80	631.1±	627.85	S-3c	3.25	
CB #5	Hull Ave. 0+38	629.8±	626.55	S-3c	3.25	
CB #6	N.E. Drive 0+40	632.3±	629.05	S-3b	3.25	

STRUCTURE LIST

Drainage Structure	Station	Elev. of Top	Elev. of Outlet Inv.	Stand. Sheet No.	"a"	Remarks
CB #7	N.E. Drive 0+00	632.3±	628.9	S-3c	3.40	
CB #8	28+50	622.69	618.4	S-3b	4.29	
CB #9	29+17.29	622.12	618.60	S-3f	3.52	Without Trap
CB #10	29+90	622.79	619.54	S-3b	3.25	
CB #11	28+50	622.69	618.4	S-3b	4.29	
CB #12	29+17.29	622.12	619.54	S-3i	2.58	
CB #13	29+90	622.79	618.75	S-3b	4.04	
CB #14	28+50	622.69	618.35	S-3b	4.34	
CB #15	29+17.29	622.12	619.54	S-3i	2.58	
CB #16	28+50	622.69	619.44	S-3b	3.25	
CB #17	29+17.29	622.12	618.25	S-3f	3.87	Without Trap
CB #18	29+90	622.79	618.6	S-3b	4.19	
CB #19	29+90	622.79	618.75	S-3b	4.01	
CB #20	32+25	630.12	626.87	S-3c	3.25	
CB #21	32+25	630.12	626.65	S-3c	3.47	
CB #22	32+25	630.12	626.70	S-3b	3.42	
CB #23	32+25	630.12	626.87	S-3b	3.25	
CB #24	N.W. Drive 33+80	633.89	630.64	S-3b	3.25	Roll Curb Casting
CB #25	N.W. Drive 34+12±	632.8±	629.55	S-3c	3.25	Roll Curb Casting
CB #26	34+90	633.27±	630.02	S-3b	3.25	
CB #27	34+90	633.4±	629.85	S-3b	3.55	
CB #28	34+90	633.4±	629.78	S-3c	3.62	

See S.H.O. Std. E-9-A-27c

QUANTITIES

30"ø Reinf. Concrete Culvert Pipe (Bell & Spigot)	25	Lin. Ft.
18"ø " " " " (Tongue & Groove)	65	" "
12"ø " " " " (Bell & Spigot)	1185	" "
12"ø " " " " (Tongue & Groove)	25	" "
8"ø Std. Sewer Pipe Connection to Slope Drain (B#S)	160	" "
8"ø " " " Back of Retaining Wall (B#S)	295	" "
6"ø " " " Subdrain under Pavement "	2120	" "
6"ø " " " " on Pier Footings "	260	" "
6"ø " " " " " Abut. "	160	" "
6"ø " " " " " Ret. Wall Ftg. "	60	" "
6"ø " " " " in Sewer Trench "	375	" "
6"ø " " " Slope Drains (B#S)	1975	" "
Manholes	12	
Catch Basins	28	
24"ø Reinf. Concrete Culvert Pipe (Bell & Spigot)	90	Lin. Ft.

Scales
Horizontal - 1" = 50'
Vertical - 1" = 5'

REVISIONS
Misc. Revisions H.W. 3-2-41 G.J.P.

JOB No. 554

ISSUE NO. -
DATE - 19

BOARD OF WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN

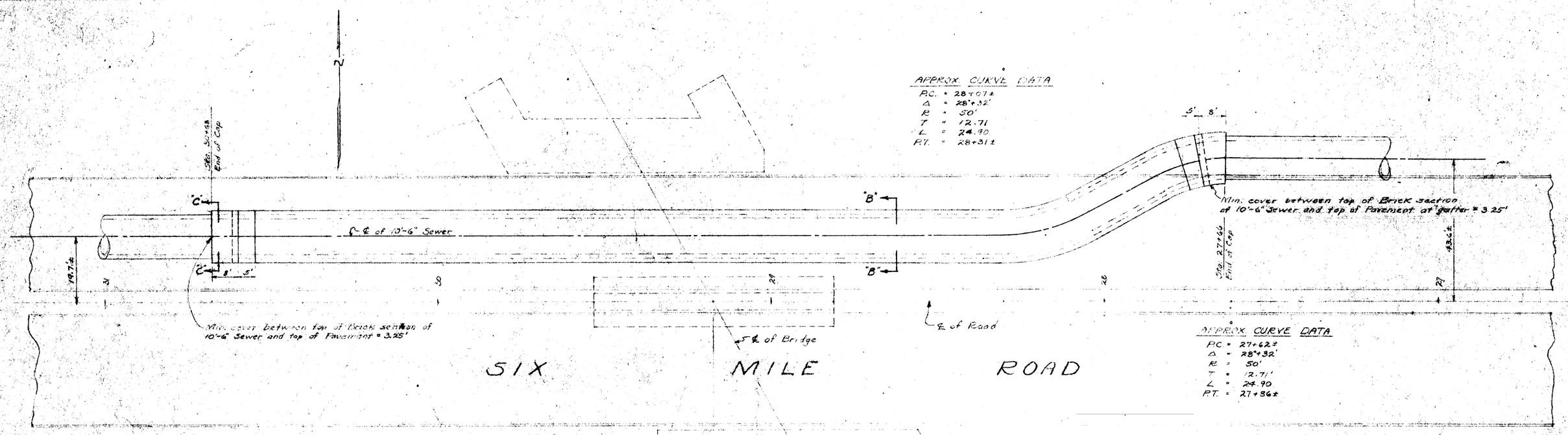
MICHAEL J. O'BRIEN, VICE-CHAIRMAN
JOHN F. BREINING, COMMISSIONER
CHARLES L. WILSON, CHAIRMAN

DRAINAGE PLAN
SIX MILE RD. ~ G.T.W.R.R. WALLEY DIVISION GRADE SEPARATION

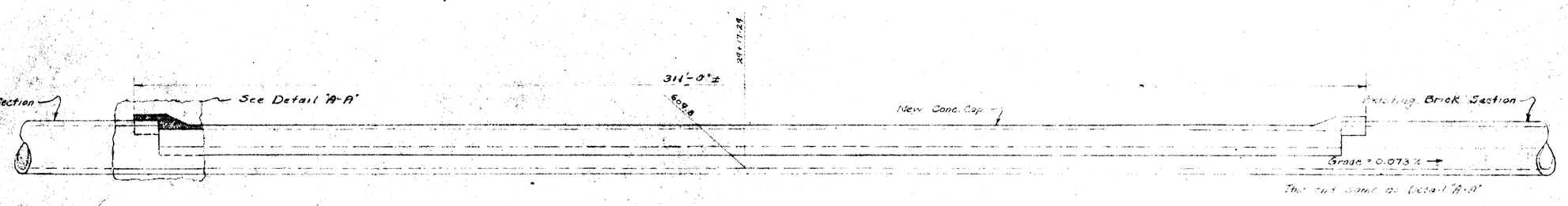
DESIGNED BY ____ DRAWN BY H.W. CHECKED BY G.J.P.
DATE 12-20-40 SCALE As Shown CORRECT ____ CHIEF DESIGNER
APPROVED ____ BRIDGE ENGINEER ____ REG. CIV. ENG.
APPROVED ____ COUNTY HIGHWAY ENGINEER ____ REG. CIVIL ENG.

SHEET NO. 4

200 10-14-38 THE FREDERICK POST CO.

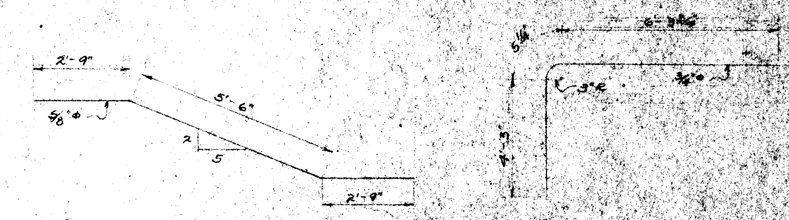


PLAN
Scale :- 1"=20'



ELEVATION (AS DEVELOPED)
Scale 1"=20'

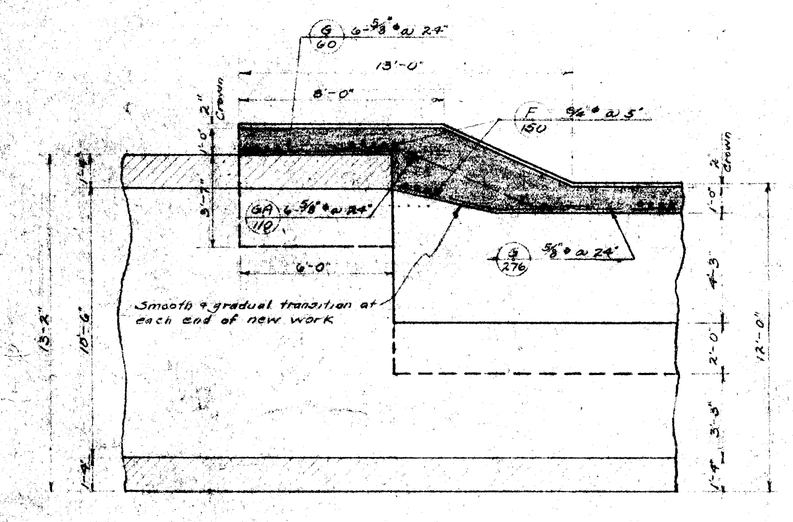
BILL OF REINFORCING BARS				
Mark	No.	Size	Length	Location
G-276	216	⅝" ⌀	27'-4"	Longit. Bar - Center Section
G-60	12	"	8'-0"	" - End Sections
GA-110	12	"	11'-0"	" - Transition Sec.
F-150	745	¾" ⌀	15'-0"	Trans. Bar - Bottom of Cap
FA-110	796	"	11'-0"	Corner Bars at Center Sec.



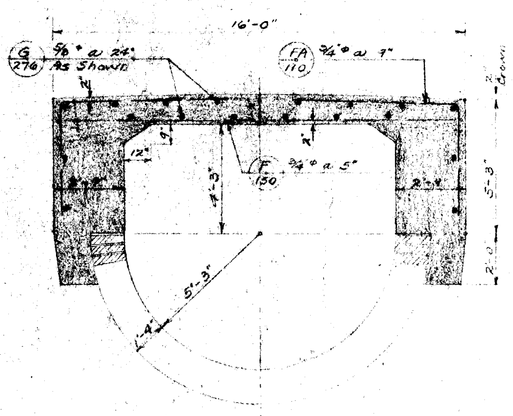
DETAILS OF BENT BARS
No Scale

NOTES

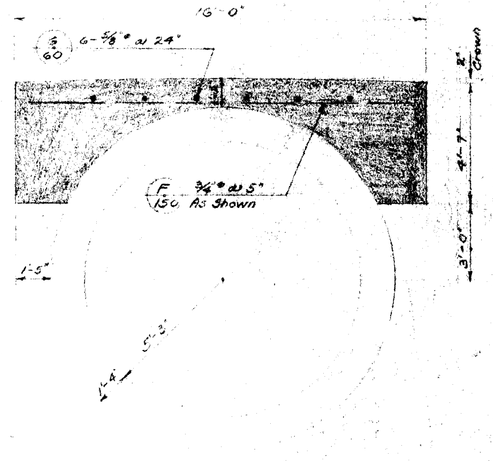
Specifications :- Board of Wayne County Road Commissioners General Specifications dated May 14th, 1940 and Supplementary Specifications for Job # 554
Design :- M.S.H.D. Specifications for Design of Highway Bridges, dated 1936, except Live Loading
Live Loadings :- 24 Ton Truck + M.S.H.D. equatons for Impact.
For additional Notes See Sheet "9"



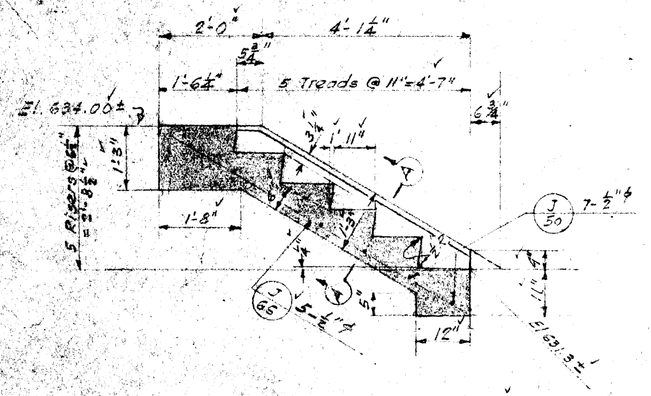
DETAIL "A-A"
Scale - ½" = 1'-0"



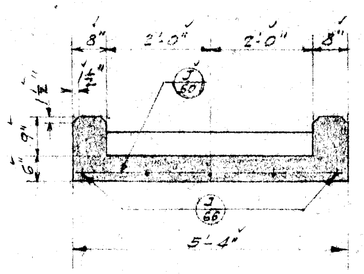
SECTION "B-B"
Scale - ½" = 1'-0"



SECTION "C-C"
Scale ¼" = 1'-0"



SECTIONAL ELEV. OF STAIR "C"
Scale ½"=1'-0"
℄ At Sta. 01+67± HULL AVE.



SECTION A-A
Scale - ½" = 1'-0"

QUANTITIES

For Sewer Cap :-
Concrete ..... 555 Cu. Yds.
Reinforcing Steel ..... 36345 Lbs.

For Stairs "C" :-
Concrete ..... 1.3 Cu. Yds.
Reinforcing Steel ..... 45 Lbs.

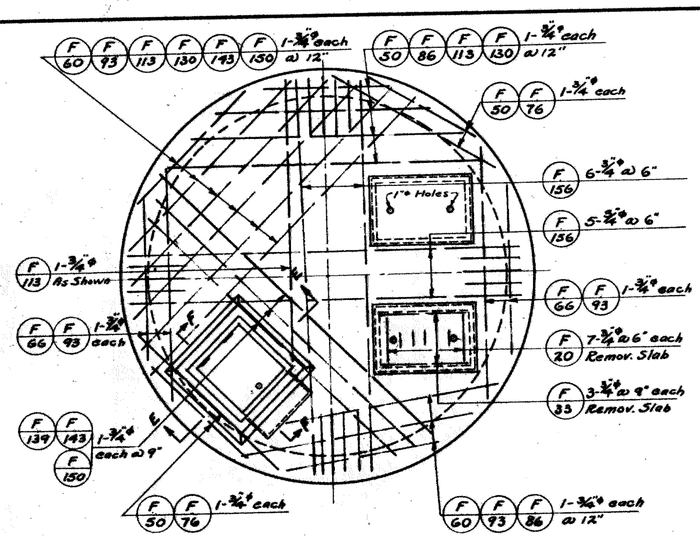
REVISIONS

JOB NO. 554
ISSUE NO. 1
DATE 4-17-41

BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN
MICHAEL J. O'BRIEN, VICE-CHAIRMAN — JOHN F. [illegible], CONT. ENGR.
CHARLES L. WILSON, CHAIRMAN

SEWER CAP & STAIR "C"
SIX MILE RD. - G.T.W.R. R.R.
GRADE SEPARATION

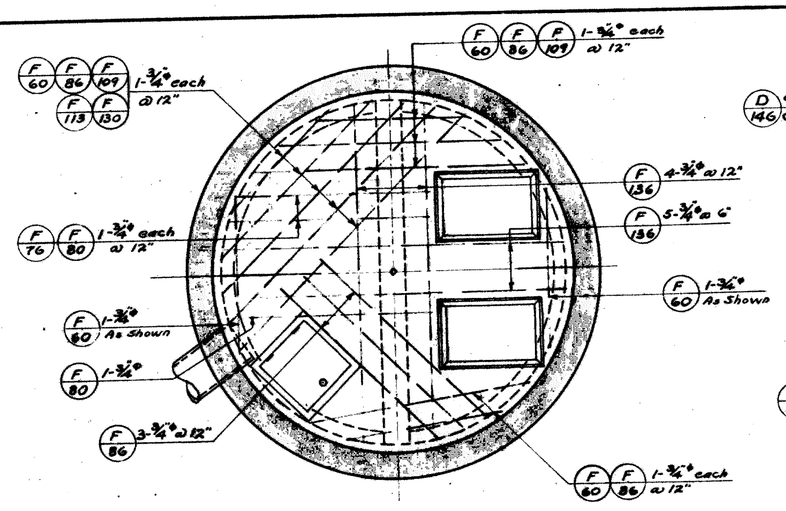
Design By A.W. Drawn By T.H.W. Checked By [illegible]
Date 1-24-41 Scale As Shown Computed [illegible]
Approved [illegible] Engineer
Approved [illegible] Secretary



REINFORCING DETAILS IN ROOF SLAB

Scale:- 1/4" = 1'-0"

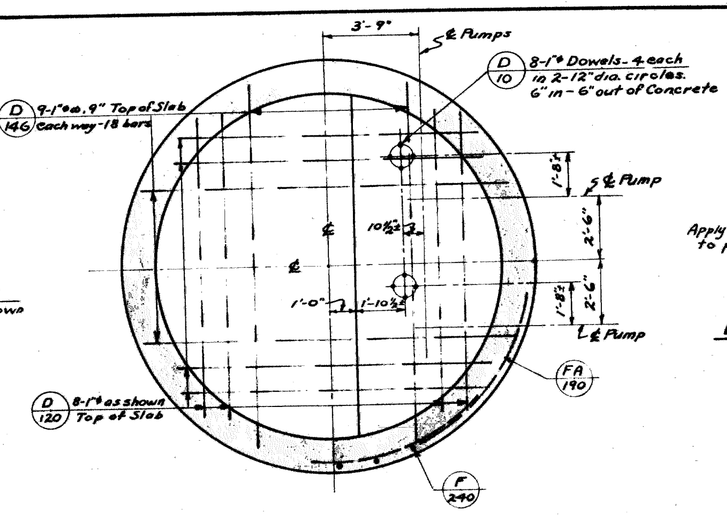
All steel shown is in bottom of Slab.
Minimum distance of steel from bottom of slab to be 1½"



REINFORCING DETAILS IN FLOOR SLAB

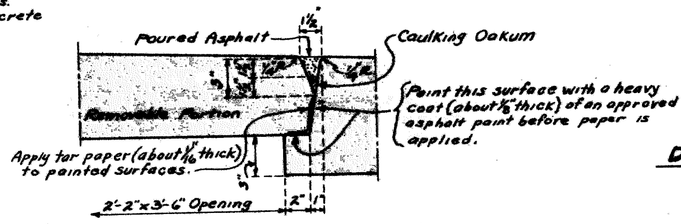
Scale:- 1/4" = 1'-0"

All steel shown is in bottom of Slab.
Minimum distance of steel from bottom of Slab to be 1½"



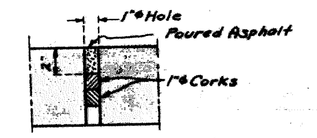
SECTION D-D

SHOWING REINFORCING IN PIT FLOOR
Scale:- 1/4" = 1'-0"



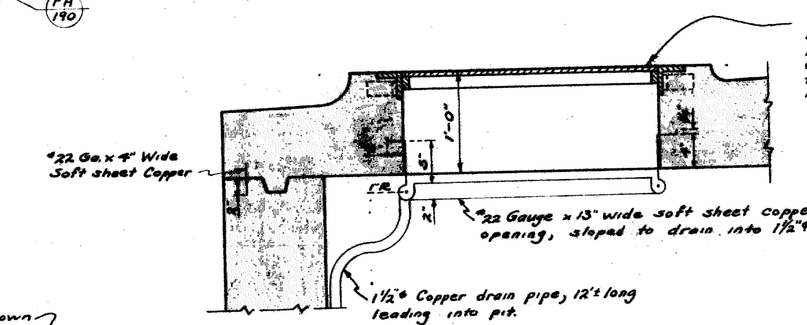
DETAILS of JOINT at REMOVABLE SLABS

Scale:- 1½" = 1'-0"



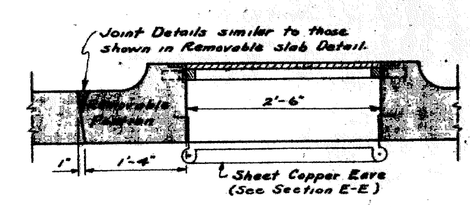
DETAIL FOR PLUGGING 1" ø HOLES IN REMOVABLE SLABS

Scale:- 1½" = 1'-0"



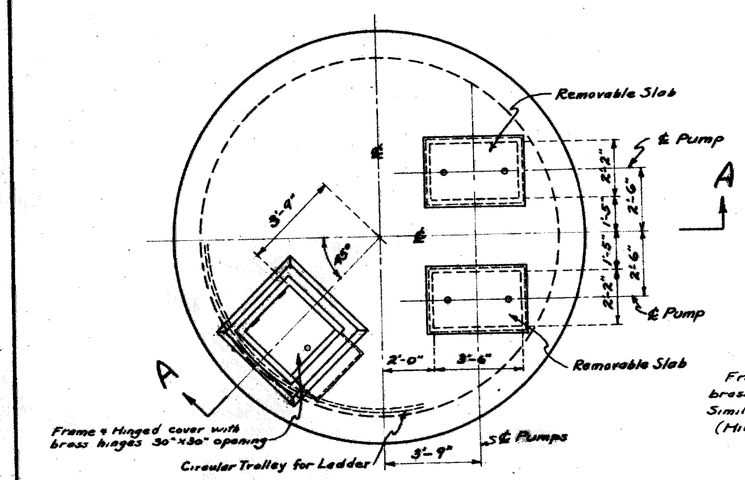
SECTION E-E

Scale:- 1" = 1'-0"



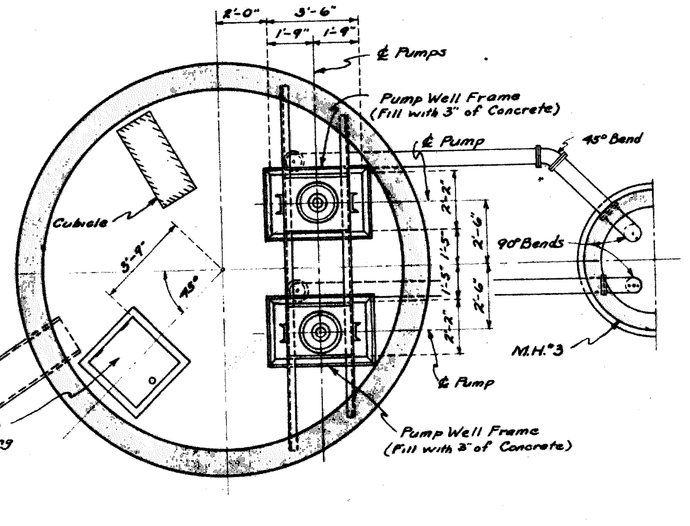
SECTION F-F

Scale:- 3/4" = 1'-0"



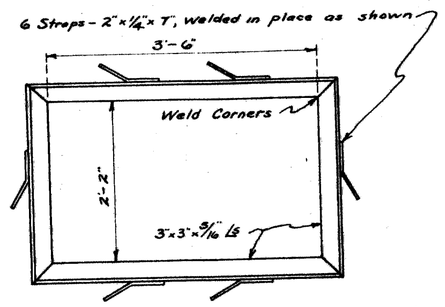
PLAN VIEW of ROOF

Scale:- 1/4" = 1'-0"



SECTION C-C

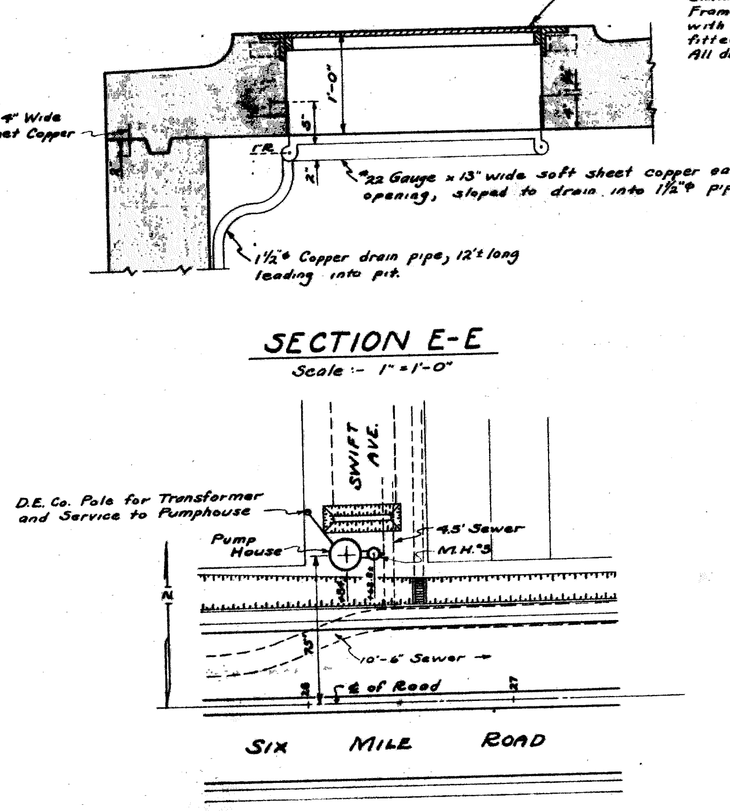
Scale:- 1/4" = 1'-0"



DETAIL of PUMP WELL FRAME

Scale:- 3/4" = 1'-0"

2 Required



LOCATION PLAN

Scale:- 1" = 50'

~ NOTES ~

Specifications:- Board of Wayne County Road Commissioners General Specifications dated May 1st 1940 and Supplementary specifications for Job #554.

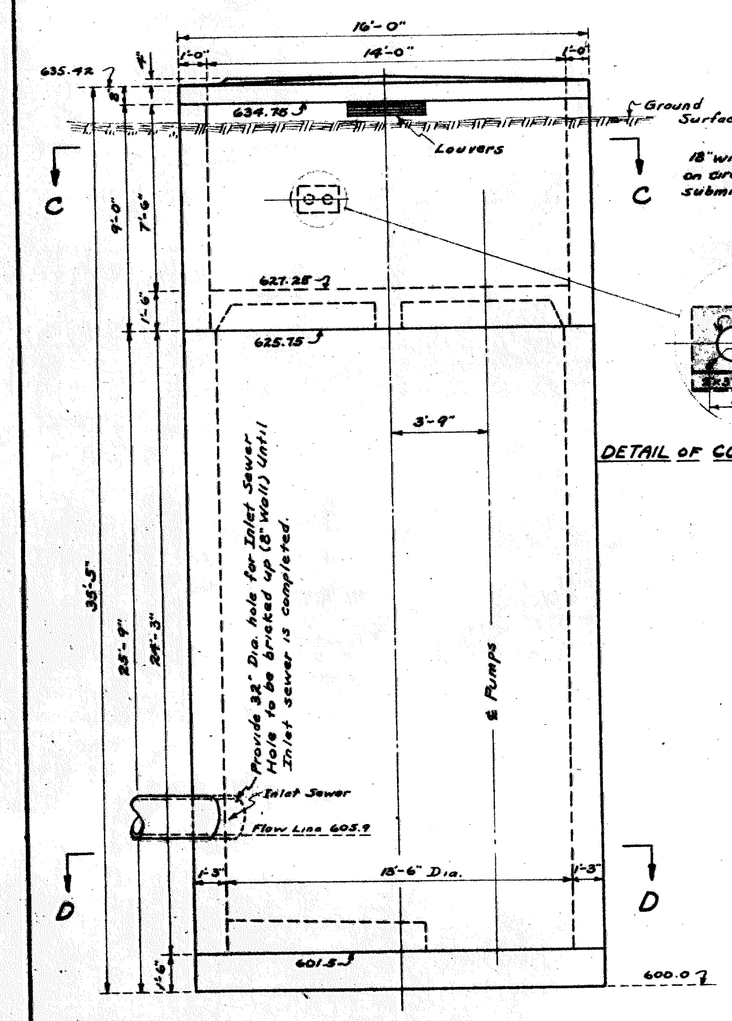
Waterproofing:- All concrete in contact with earth from 625.00 to 632.75± shall be given Class "A" waterproofing treatment.

Pumps & Motors:- Two pumping units 8" intake, 8" Discharge, each driven by a 10 HP Motor in accordance with the Supplementary Specifications.

Painting of Steel and Iron:-
One Shop coat of Red Lead ground in Linseed Oil.
First Field coat " " " " "
Second Field coat of Powdered Aluminum and Spar Varnish.

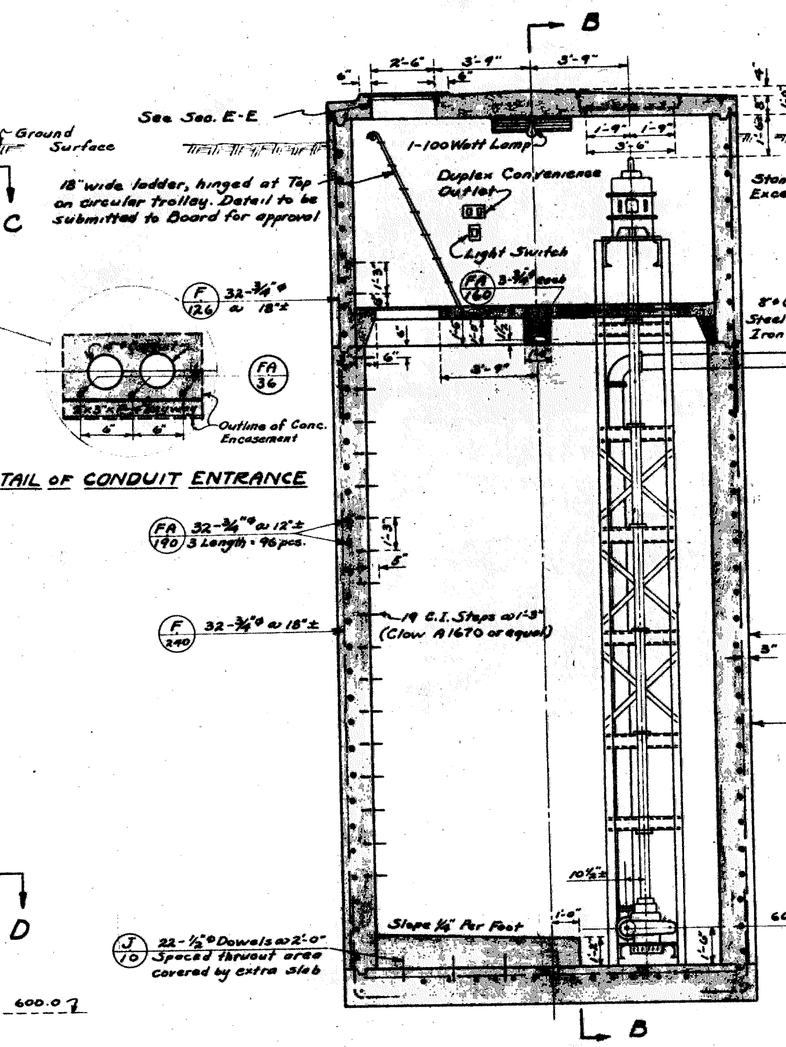
Electric Control Equipment:- See Sheet #7

For additional Notes See Sheet #9



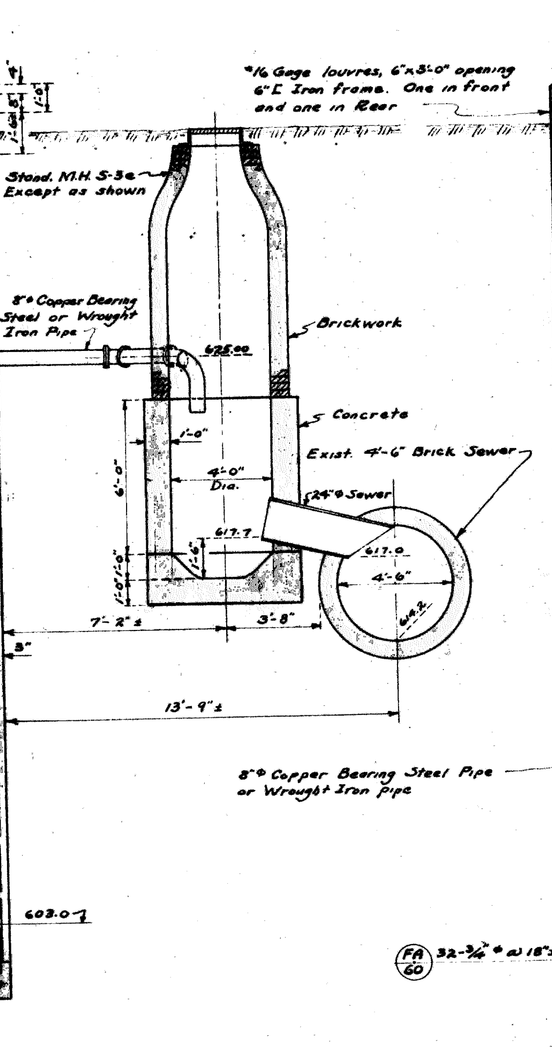
ELEVATION

Scale:- 1/4" = 1'-0"



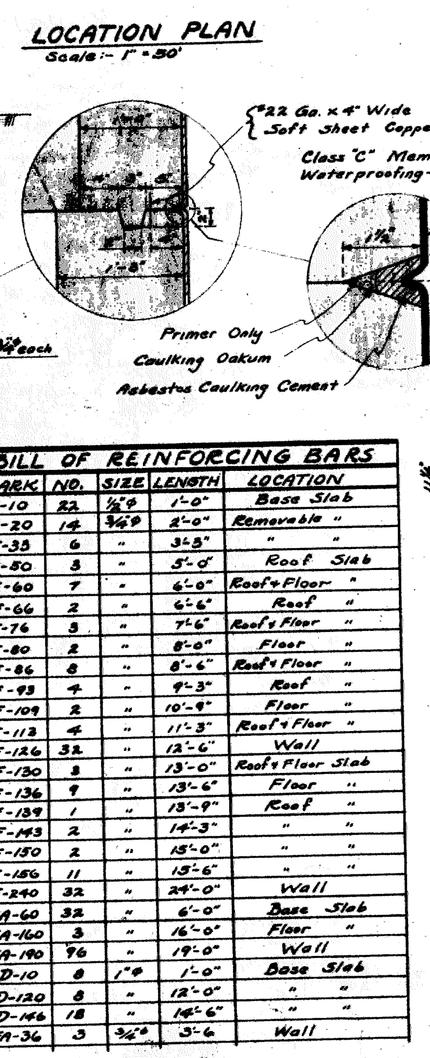
SECTION A-A

Scale:- 1/4" = 1'-0"



SECTION B-B

Scale:- 1/4" = 1'-0"

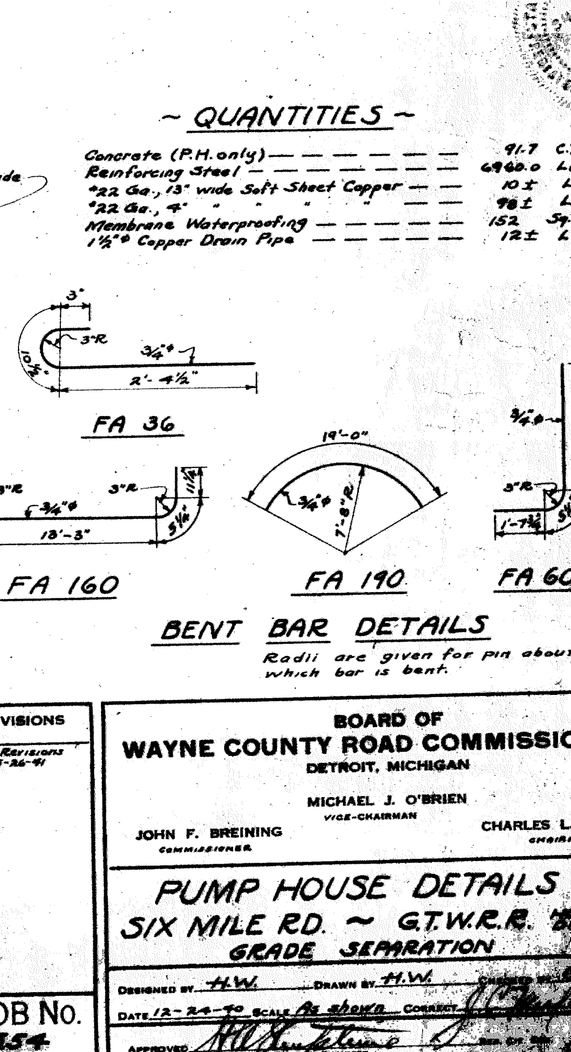


BILL OF REINFORCING BARS

MARK	NO.	SIZE	LENGTH	LOCATION
J-10	22	½" ø	1'-0"	Base Slab
F-20	14	3/4" ø	2'-0"	Removable "
F-33	6	"	3'-3"	"
F-50	3	"	5'-0"	Roof Slab
F-60	7	"	6'-0"	Roof + Floor "
F-66	2	"	6'-6"	Roof "
F-76	3	"	7'-6"	Roof + Floor "
F-80	2	"	8'-0"	Floor "
F-86	8	"	8'-6"	Roof + Floor "
F-93	4	"	9'-3"	Roof "
F-109	2	"	10'-9"	Floor "
F-113	4	"	11'-3"	Roof + Floor "
F-126	32	"	12'-6"	Wall
F-130	3	"	13'-0"	Roof + Floor Slab
F-136	9	"	13'-6"	Floor "
F-139	1	"	13'-9"	Roof "
F-143	2	"	14'-3"	" "
F-150	2	"	15'-0"	" "
F-156	11	"	15'-6"	" "
F-240	32	"	24'-0"	Wall
FA-60	32	"	6'-0"	Base Slab
FA-160	3	"	16'-0"	Floor "
FA-190	96	"	19'-0"	Wall
D-10	8	1" ø	1'-0"	Base Slab
D-120	8	"	12'-0"	" "
D-146	18	"	14'-6"	" "
FA-36	3	¾" ø	3'-6"	Wall

~ QUANTITIES ~

Concrete (P.H. only)	91.7 C.Y.
Reinforcing Steel	6960.0 Lbs.
*22 Ga., 13" wide Soft Sheet Copper	10± L.F.
*22 Ga., 4" " " "	98± L.F.
Membrane Waterproofing	152 Sq.Ft.
1½" ø Copper Drain Pipe	12± L.F.



BENT BAR DETAILS

Radii are given for pin about which bar is bent.

REVISIONS
Misc. Revisions w/ind. 6-26-41

JOB No. 554

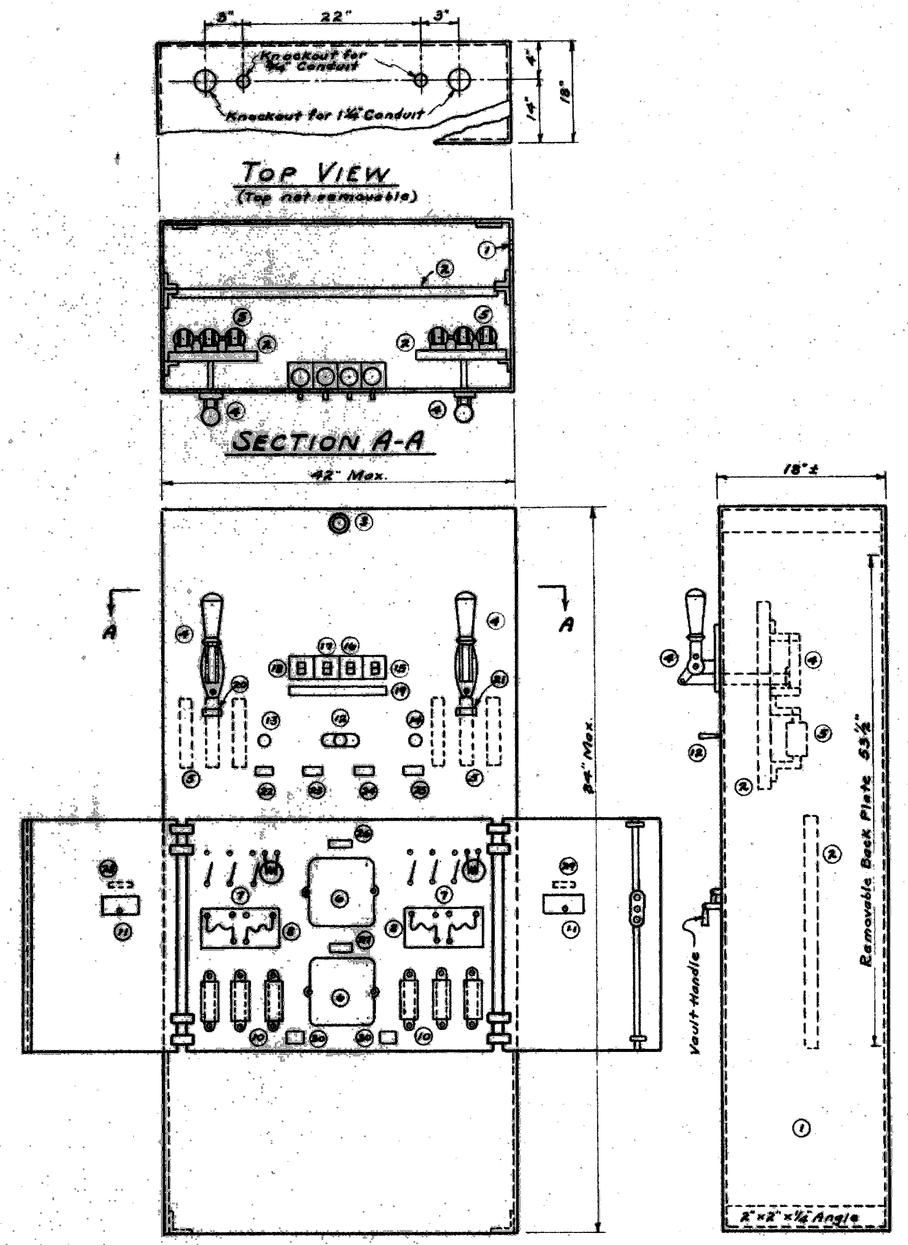
ISSUE NO. 2
DATE 6-11 19 41

BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN

MICHAEL J. O'BRIEN, VICE-CHAIRMAN
JOHN F. BREINING, COMMISSIONER
CHARLES L. WILSON, CHAIRMAN

PUMP HOUSE DETAILS
SIX MILE RD. ~ G.T.W.R.R. GRADE SEPARATION

DESIGNED BY H.W. DRAWN BY H.W. CHECKED BY
DATE 12-24-40 SCALE As shown CONSULT
APPROVED
APPROVED



CONTROL PANEL AND CABINET

Not to Scale

Pump House Lights	Master Sw. Light & Control	Motor No.2 Control Circuit	Motor No.1 Control Circuit

Nameplate

SKETCH OF INSTRUCTION PLATE

LIST OF INSTRUMENTS IN CABINET

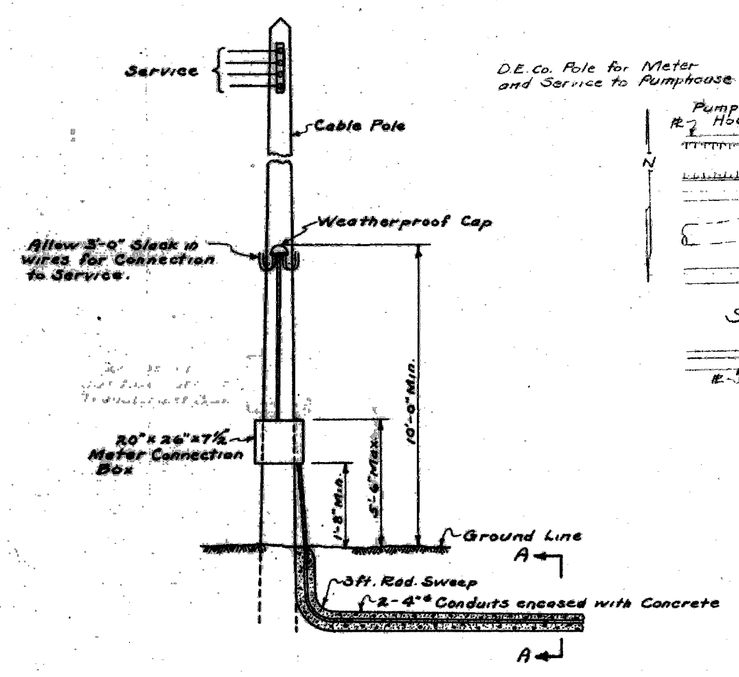
Key No.	No. Req'd.	Function	Description
1	1	Enclosure	Cubicle type Cabinet #12 Ga.
2	3	Panel	1" Ebony asbestos
3	1	Panel Illumination	Key lamp Receptacle
4	2	Motor Disconnect	100 A. 250 V. 3 Pole - s.t. - dead Front - fused
5	6	Protection	75 A. 250 V. n.e.c. fuse
6	2	Phase Reversal	Type "RK" Phase reversal relay for Protecting motors against starting under single phase condition. Shunt relay Type.
7	2	Line Switch	100 A. Magnetic Contactor
8	2	Overload Protection	Thermal O.L. Relay
9*	4	Overload	Overload heater Units 10 HP 220 V. 3 Phase 60 Cycle Motors
10	6	Testing	Current test studs - Insulated Shunt
11	2	Overload Reset	Outside Oper. Reset button
12	1	Water Level Relay Sw. Transfer	30 A. 250 V - 2 P. D.T. Dead Front K. Switch
13	1	Motor No.1 Test	Heavy Duty Momentary type Push button
14	1	Motor No.2 Test	" " " " " "
15	1	Motor No.1 Cont'r. Disconnect	15 A. 1 P. Circuit Breaker
16	1	Motor No.2 Cont'r. Disconnect	15 A 1 P. " "
17	1	Lights & Cont'r. Disconnect	15 A 2 P. " "
18	1	P.H. Lights Disconnect	15 A 1 P. " "
19	1	Nameplate	See sketch below
20	1	"	Motor No.1 Disconnect Switch
21	1	"	Motor No.2 " "
22	1	"	Motor No.1 Tryout
23	1	"	Motor No.1 - Water Level Control Sw. "1 " " 2 " " " " " "2
24	1	"	Motor No.1 - Water Level Control Sw. "2 " " 2 - " " " " "1
25	1	"	Motor No.2 - Tryout
26	1	"	Motor No.2 - Reverse Ph. Relay
27	1	"	" " 1 - " " " "
28	1	"	Motor No.1 - Reset
29	1	"	" " 2 - "
30	2	Water Level Control	Bender-Warrick Liquid Level Control

* Not shown in Panel Diagram

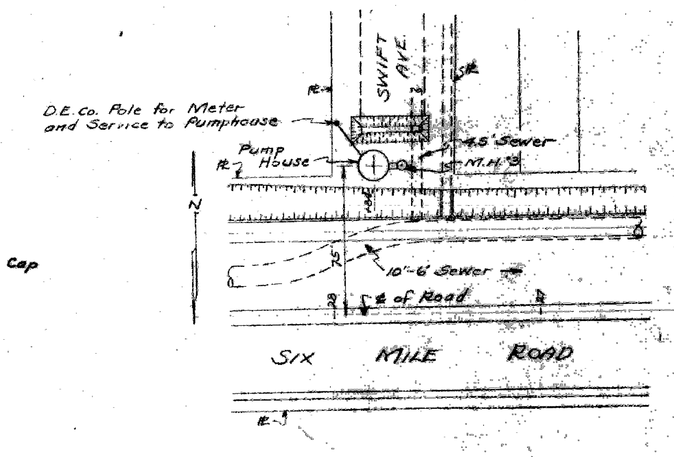
DIVISION OF WORK

The Detroit Edison Co. will,
Furnish and place cable pole, furnish meter connection box, and furnish & install meter at their own expense.

Contractor will,
Place Meter connection Box.
Furnish and place conduit, cable and wiring from and including weatherproof cap on Cable pole to entrance switch in Pump House.
Furnish and place all electrical equipment in Pump House
Shall furnish and install ground bus for grounding all electrical equipment.

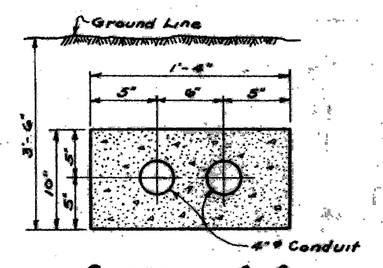


3 PHASE-4 WIRE CURRENT TRANSFORMER ASSEMBLY AND SECONDARY SERVICE LINES



LOCATION PLAN

Scale:- 1" = 50'



SECTION A-A

GENERAL NOTES

Switchgear:-
Entrance switch shall be of a safety type and in accordance with specifications.

Conduits and Wiring:-
To be in accordance with National Board of Fire Underwriters requirements. All underground wiring shall be rubber insulated lead covered cable in Concrete encased conduits. Minimum thickness of encased concrete to be 3" outside of Conduit. Conduit shall be hot dip galvanized. Conduits encased in Masonry shall have bends of all angle points whose minimum radius is 12" and ells & Tees will not be permitted. Conduits shall have tight waterproof joints. Conduits shall be so placed that they are self-draining. Conduit mountings shall be of Malleable Clamp type or one hole malleable iron pipe straps.
All wiring within cubicle shall be moisture resistant, rubber covered wire with one moisture proof braid covered with one flame proof braid.
Service entrance conduit shall be provided with a drain to sump to prevent water from following cable into electrical equipment. Drain and seal to be of approved type.

Insulation
Meter insulation on all wire and cables shall be G.E.Co. R-348 or equal.

Fasteners
All wall fasteners shall be approved expansion anchors.

Connections
All connections shall be made with approved solderless type lugs and connectors.

Ground
The ground bus for grounding all electrical equipment shall not be less than #4 bare stranded cable and maybe grounded by approved solder-less clamps to 3-¾"x10'-0" Solid Steel ground rods, 3 steel and Copper ground rods or 3-1"x10'-0" galvanized iron pipes. If desired by Contractor, the ground bus maybe grounded by bracing to 3 pieces of steel sheet piling.
At least three electrodes must be used and more if necessary to obtain required ground resistance. Each electrode must be separated by at least 10 feet. The total resistance of the ground shall not exceed 15 ohms.

REVISIONS
Current Transformer Removed A.W. 8-28-41-J.W.C.
Water Level Control Revised A.W. 9-10-41-J.W.C.

JOB No. 554

ISSUE NO. 3
DATE 9-11-1941

BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN

MICHAEL J. O'BRIEN
VICE-CHAIRMAN

JOHN F. BREINING
COMMISSIONER

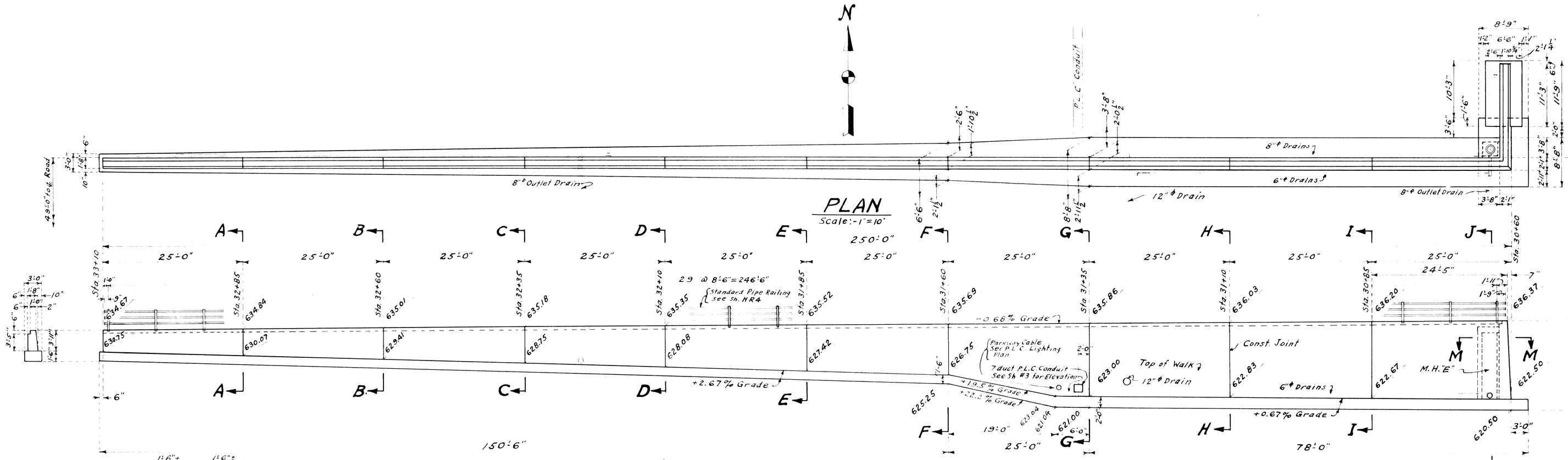
CHARLES L. WILSON
CHAIRMAN

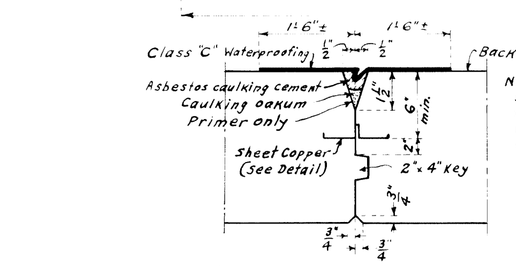
CUBICLE CONTROL AND SERVICE
SIX MILE RD. + G.T.W.R.R. HOLLEY DIVISION
GRADE SEPARATION

DESIGNED BY ____ DRAWN BY H.W. CHECKED BY J.W.C.
DATE 8-12-41 SCALE ____ CORRECT ____
APPROVED ____ Wayne Co. Engr.
APPROVED ____ County Highway Engineer ____ Wayne Co. Chief Engr.

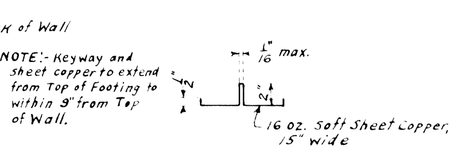
SHEET NO. 7

300 10-14-38 THE FREDERICK POST CO

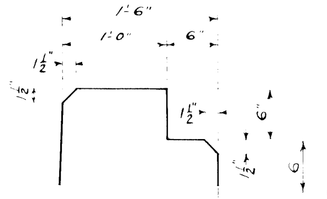




DETAIL of CONST. JOINT
Not to Scale



DETAIL of SHEET COPPER
Not to Scale

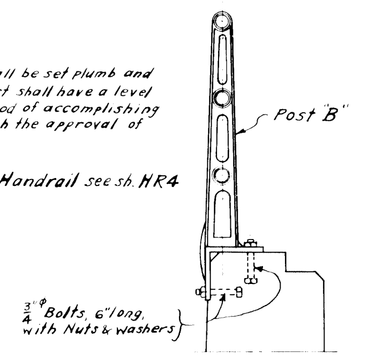


DETAIL of COPING
Scale:-1"=1'-0"

ELEVATION
Scale:-1"=10'

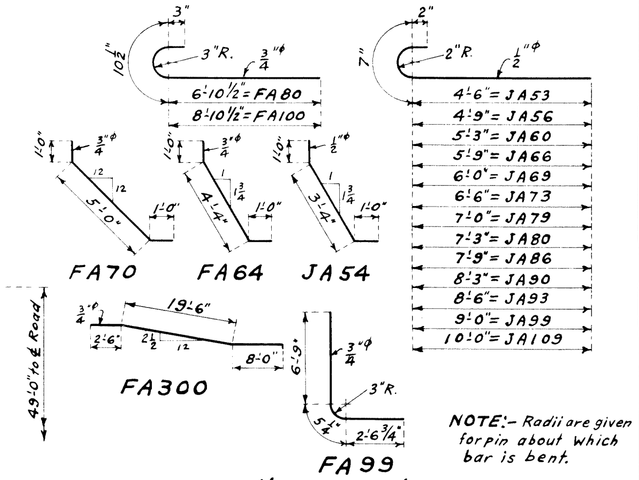
NOTE:- All posts shall be set plumb and the base of the post shall have a level bearing. The method of accomplishing this shall meet with the approval of the Engineer.

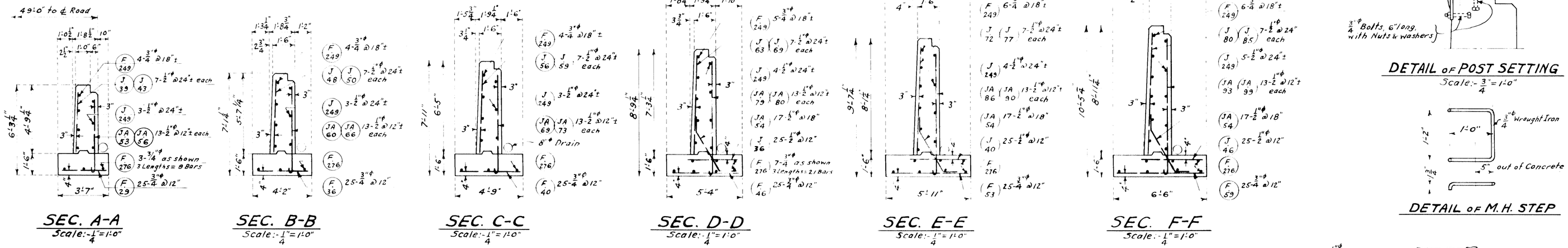
For details of Handrail see sh. HR4

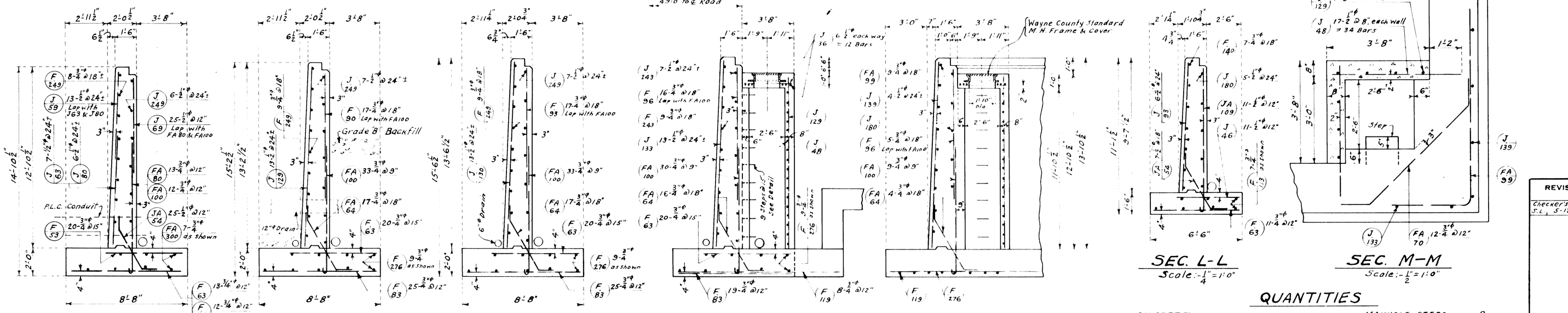


DETAIL of POST SETTING
Scale:-3/4"=1'-0"

DETAIL of M.H. STEP







BILL of REINFORCING BARS

FOOTING					ABOVE FOOTING				
Mark	No.	Size	Length	Remarks	Mark	No.	Size	Length	Remarks
J36	25	1/2"	3'-6"	Straight	J36	12	1/2"	3'-6"	Straight
J40	25	"	4'-0"	"	J39	7	"	3'-9"	"
J46	36	"	4'-6"	"	J43	7	"	4'-3"	"
JA53	13	"	5'-3"	Bent	J48	41	"	4'-8"	"
JA54	83	"	5'-4"	"	J50	7	"	5'-0"	"
JA56	13	"	5'-6"	"	J56	7	"	5'-6"	"
JA60	13	"	6'-0"	"	J59	20	"	5'-9"	"
JA66	13	"	6'-6"	"	J63	14	"	6'-3"	"
JA69	13	"	6'-9"	"	J69	32	"	6'-9"	"
JA73	13	"	7'-3"	"	J72	7	"	7'-2"	"
JA79	13	"	7'-9"	"	J77	7	"	7'-7"	"
JA80	13	"	8'-0"	"	J80	13	"	8'-0"	"
JA86	13	"	8'-6"	"	J85	7	"	8'-5"	"
JA90	13	"	9'-0"	"	J93	6	"	9'-3"	"
JA93	13	"	9'-3"	"	J129	20	"	12'-9"	"
JA99	13	"	9'-9"	"	J130	13	"	13'-0"	"
JA109	11	"	10'-9"	"	J133	13	"	13'-3"	"
F36	25	3/16"	3'-6"	Straight	J139	4	"	13'-9"	"
F40	25	"	4'-0"	"	J180	5	"	18'-0"	"
F46	25	"	4'-6"	"	J249	42	"	24'-9"	"
F53	45	"	5'-3"	"	FA70	12	3/4"	7'-0"	Bent
F58	25	"	5'-9"	"	F90	17	"	9'-0"	Straight
F63	84	"	6'-3"	"	F93	17	"	9'-3"	"
FA64	54	"	6'-4"	Bent	F96	21	"	9'-6"	"
F76	12	"	7'-6"	Straight	FA99	9	"	9'-9"	Bent
FA80	13	"	8'-0"	Bent	F140	7	"	14'-0"	Straight
F83	69	"	8'-3"	Straight	F243	9	"	24'-3"	"
FA100	117	"	10'-0"	Bent	F249	55	"	24'-9"	"
F29	25	"	2'-9"	Straight	J243	7	1/2"	24'-3"	"
F113	7	"	11'-3"	"					
F119	8	"	11'-9"	"					
F276	57	"	27'-6"	"					
FA300	7	"	30'-0"	Bent					

NOTES

WATERPROOFING:- All const. joints with V-grooves shall receive Class "C" Waterproofing 36" wide, after which all other concrete surfaces in contact with earth shall receive Class "A" waterproofing.

BACKFILL:- Grade 'B' backfill over footings to underside of pavt back of wall and to underside of walk over toe.

For Additional Notes see Sh. #9

QUANTITIES

CONCRETE:-
Footings = 109.7 c.y.
Above Footings = 156.3 c.y.
Total Concrete = 266.0 c.y.
REINFORCING STEEL 15,230 Lbs.
HANDRAIL (Complete) 267 L.F.
16 oz SOFT SHEET COPPER, 15" wide 74 L.F.
CLASS "C" WATERPROOFING, 36" wide 222 S.F.
MANHOLE STEPS 9
" FRAME & COVER 1
8"ϕ DRAINS - see Sh. #4

REVISIONS
Checker's revisions S.L. 5-12-41 G.J.P.

JOB No. 554

ISSUE NO.
DATE

BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN

MICHAEL J. O'BRIEN
VICE-CHAIRMAN

JOHN F. BREINING
COMMISSIONER

CHARLES L. WILSON
CHAIRMAN

RETAINING WALL DETAILS
SIX MILE ROAD - G.T.W.R.R.
HOLLEY DIVISION
GRADE SEPARATION

DESIGNED BY S.L. DRAWN BY S.L. CHECKED BY G.J.P.
DATE 2-11-'41 SCALE As Shown CORRECT J.S. Hoad CHIEF DESIGNER
APPROVED [illegible] BRIDGE ENGINEER REG. CIV. ENG.
APPROVED COUNTY HIGHWAY ENGINEER REG. CIVIL ENG.

SHEET NO. 8

BILL OF REINFORCING BARS

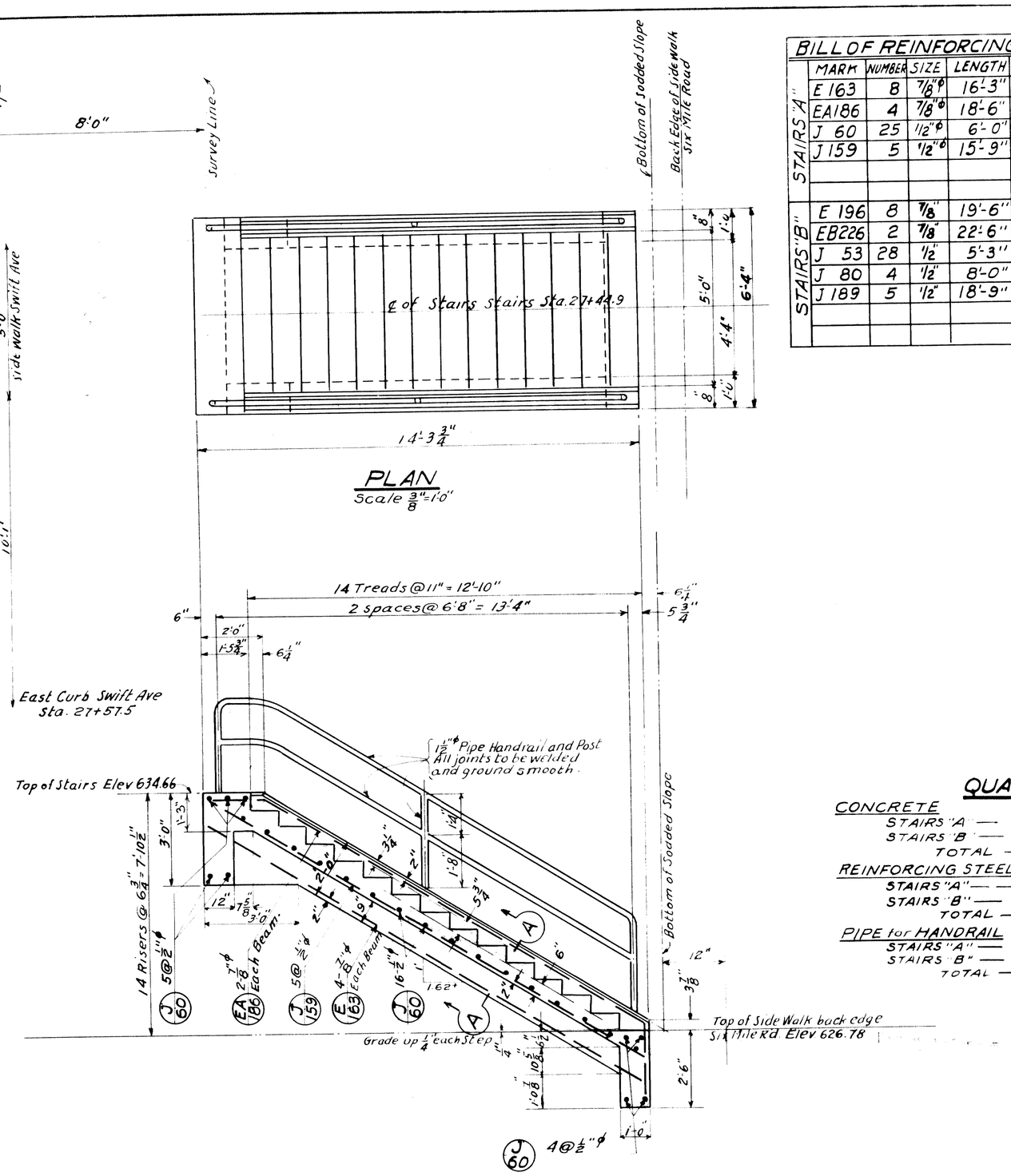
	MARK	NUMBER	SIZE	LENGTH	REMARKS
STAIRS "A"	E 163	8	7/8" ϕ	16'-3"	straight
	EA186	4	7/8" ϕ	18'-6"	bent
	J 60	25	1/2" ϕ	6'-0"	straight
	J 159	5	1/2" ϕ	15'-9"	straight
STAIRS "B"	E 196	8	7/8"	19'-6"	straight
	EB226	2	7/8"	22'-6"	bent
	J 53	28	1/2"	5'-3"	straight
	J 80	4	1/2"	8'-0"	straight
	J 189	5	1/2"	18'-9"	straight

QUANTITIES

CONCRETE
STAIRS "A" — 5.2 Cu Yds
STAIRS "B" — 5.1 Cu Yds
TOTAL — 10.3 Cu Yds

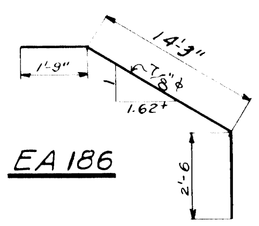
REINFORCING STEEL
STAIRS "A" — 570.0 Lbs
STAIRS "B" — 593.0 Lbs
TOTAL — 1163 Lbs

PIPE for HANDRAIL
STAIRS "A" — 31.0 L.F.
STAIRS "B" — 19.0 L.F.
TOTAL — 50.0 L.F.

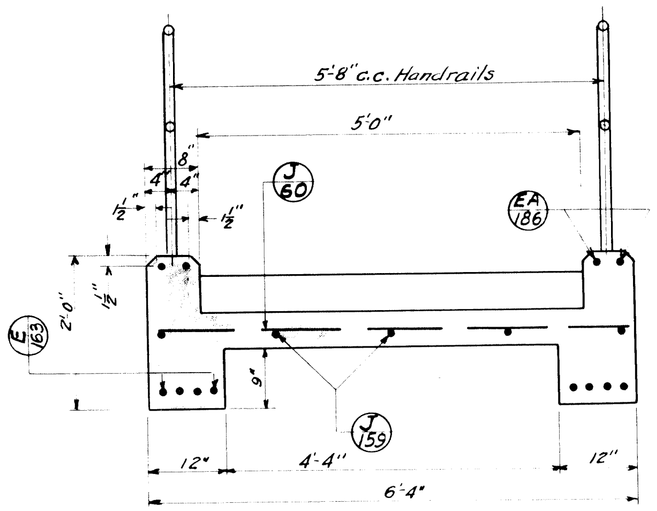


SECTIONAL ELEVATION
Scale 3/8" = 1'-0"

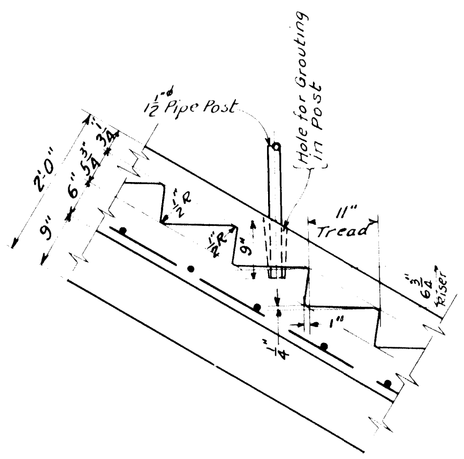
STAIRS A



EA 186



SECTION "AA"
Scale 3/4" = 1'-0"



DETAIL of STEPS and POST SETTING
Scale 3/4" = 1'-0"

NOTES

SPECIFICATIONS:-
BOARD of WAYNE COUNTY ROAD COMMISSIONER'S General Specifications of 1940 and Supplementary Specifications for Job No 554.

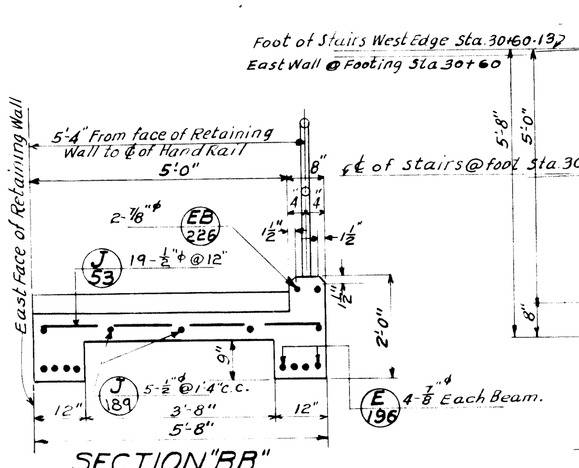
CONCRETE:
Grade "B" for 2500#/10"

AGGREGATES:-
Coarse: Designation C-2
Fine: Designation S-1

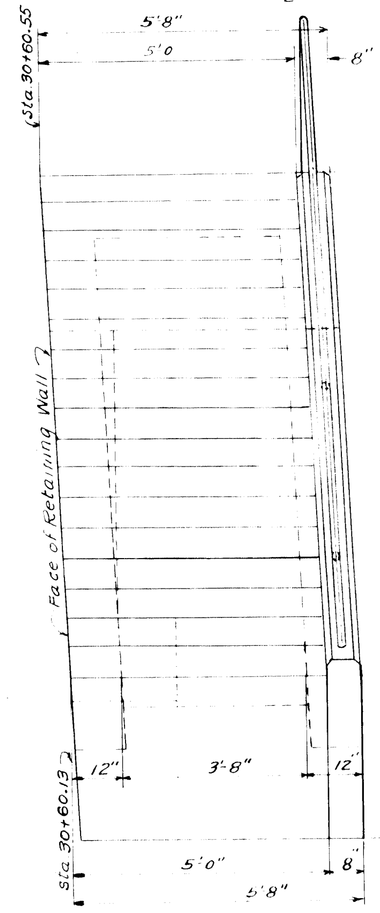
REINFORCING STEEL:-
All bars to be deformed bars of intermediate grade as specified in the A.S.T.M. STANDARD SPECIFICATIONS for BILLET STEEL REINFORCING BARS (Serial Designation A-15-35 & subsequent revisions). Bars shall be securely wired together at each intersection. At splices bars shall lap for a distance of 45 diameters, except where additional lap is required by the PLANS or by the ENGINEER, and be securely wired together. All bars shall be securely tagged before shipping to the job. No concrete shall be placed until bars to be encased are securely fastened in place.

PAINT on HANDRAIL:-
One shop coat and two field coats as specified.

For stair on Hull St. see Sh. #5.



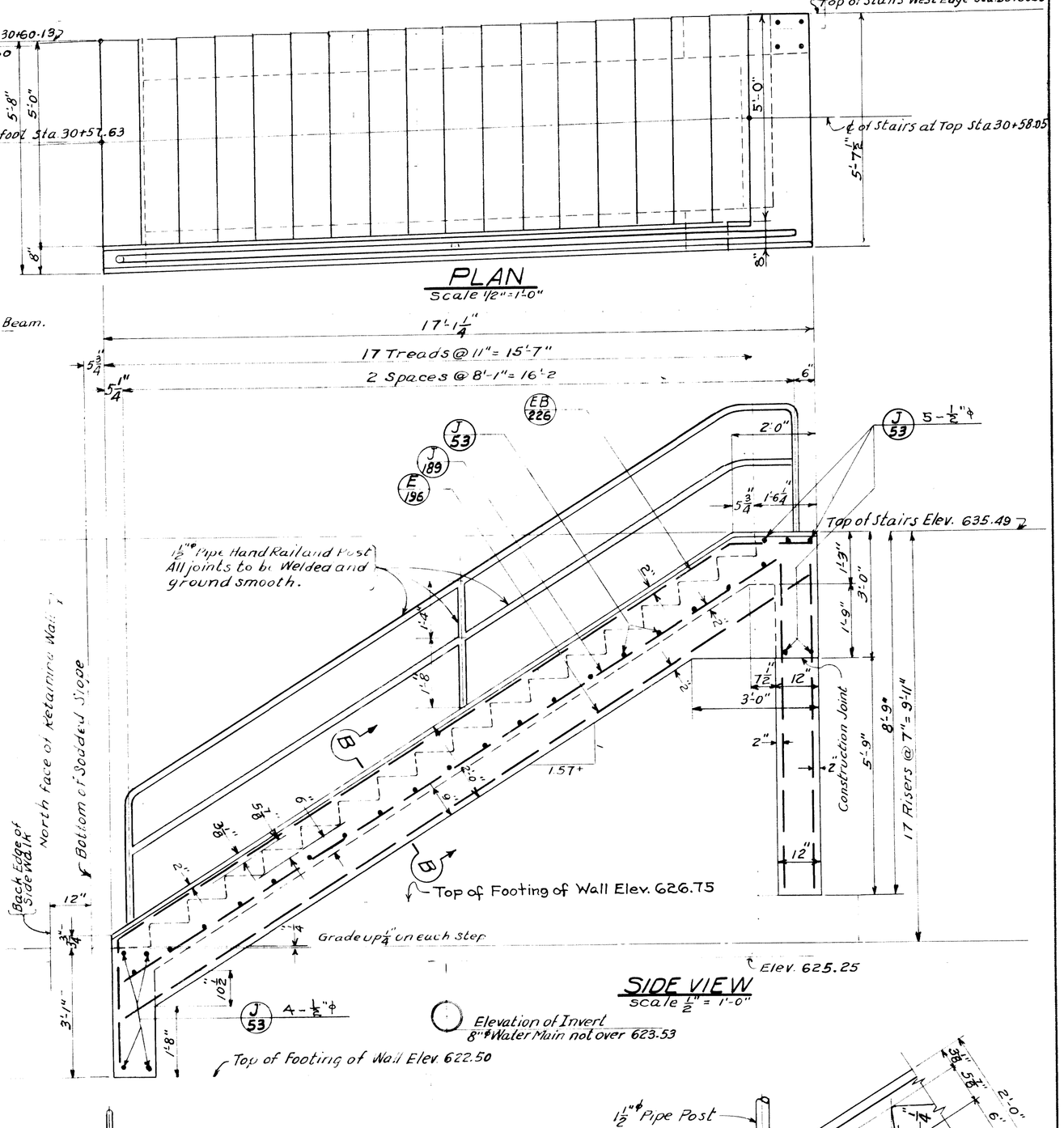
SECTION "BB"
Scale 1/2" = 1'-0"

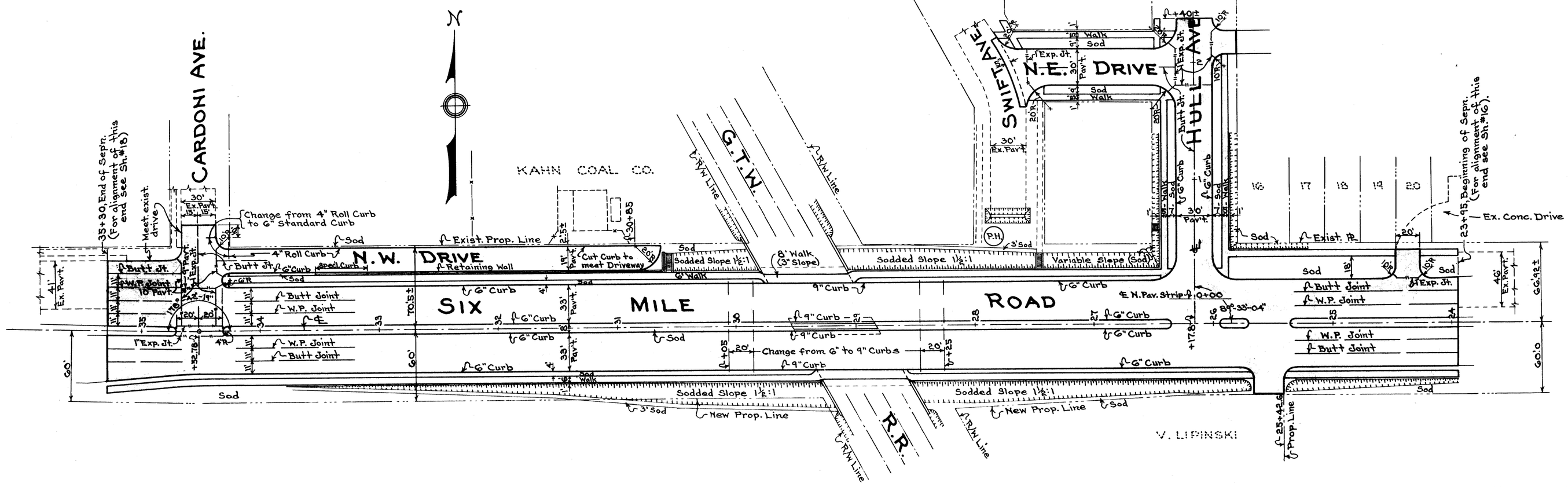


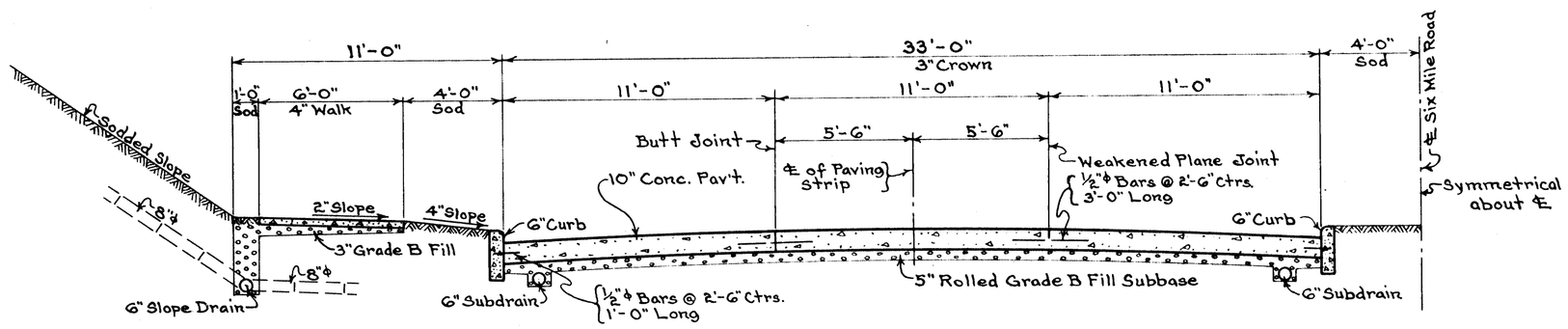
FRONT VIEW
Scale 1/2" = 1'-0"

EB226

Note: Bottom of Stairs to rest on undisturbed soil at this point. If necessary provide column to undisturbed soil.

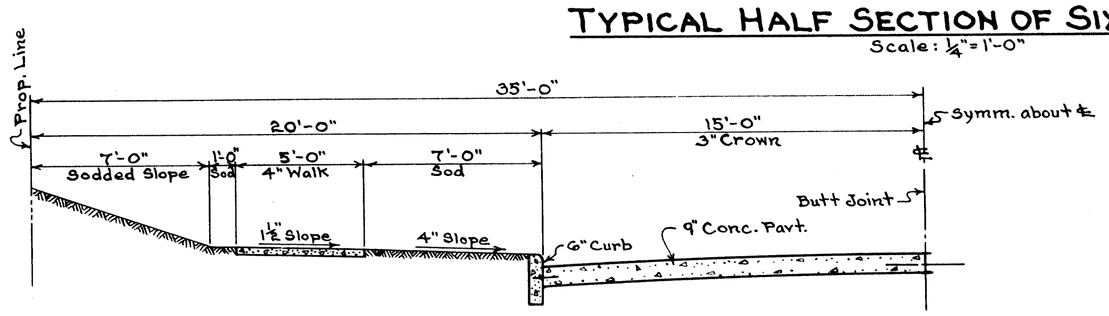

Top of Stairs West Edge Sta. 30+60.55
5'-8"
5'-0"
℄ of Stairs at Top Sta. 30+58.05
5'-1 1/4"
6"
PLAN
Scale 1/8" = 1'-0"
17'-1 1/4"
17 Treads @ 11" = 15'-7"
2 Spaces @ 8'-1" = 16'-2
5 1/4"
5 1/4"
6"
EB 226
J 53
J 189
E 196
J 53 5-1/2" ϕ
2'-0"
5 3/4"
1'-6 1/4"
Top of Stairs Elev. 635.49
1 1/2" Pipe Hand Rail and Post All joints to be Welded and ground Smooth.
1'-9"
3'-0"
1'-9"
8'-9"
5'-3"
17 Risers @ 7" = 9'-11"
1 1/2"
12"
7 1/2"
3'-0"
2"
Construction Joint
1'-6"
B
1'-6"
1'-6"
1'-6"





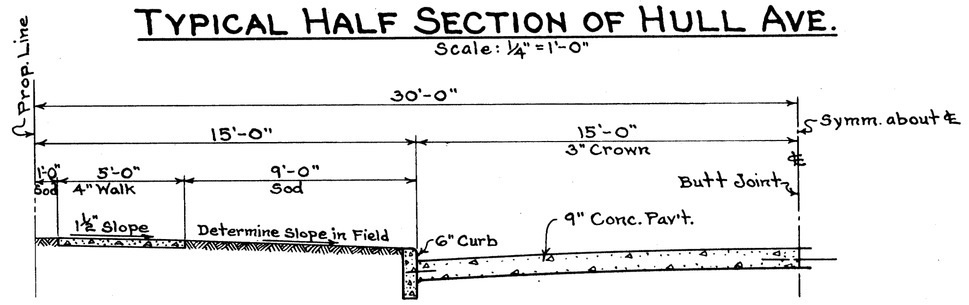
TYPICAL HALF SECTION OF SIX MILE RD. (APPROACHES)

Scale: ¼"=1'-0"



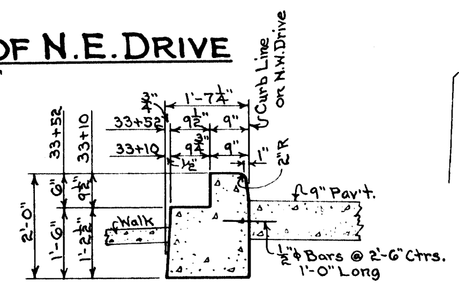
TYPICAL HALF SECTION OF HULL AVE.

Scale: ¼"=1'-0"



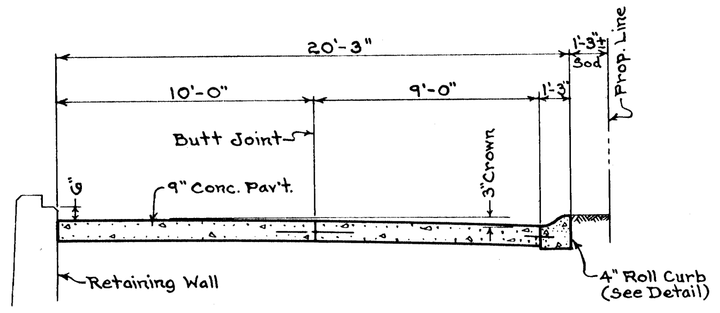
TYPICAL HALF SECTION OF N.E. DRIVE

Scale: ¼"=1'-0"



SECTION A-A OF SPECIAL CURB

Scale: ½"=1'-0"

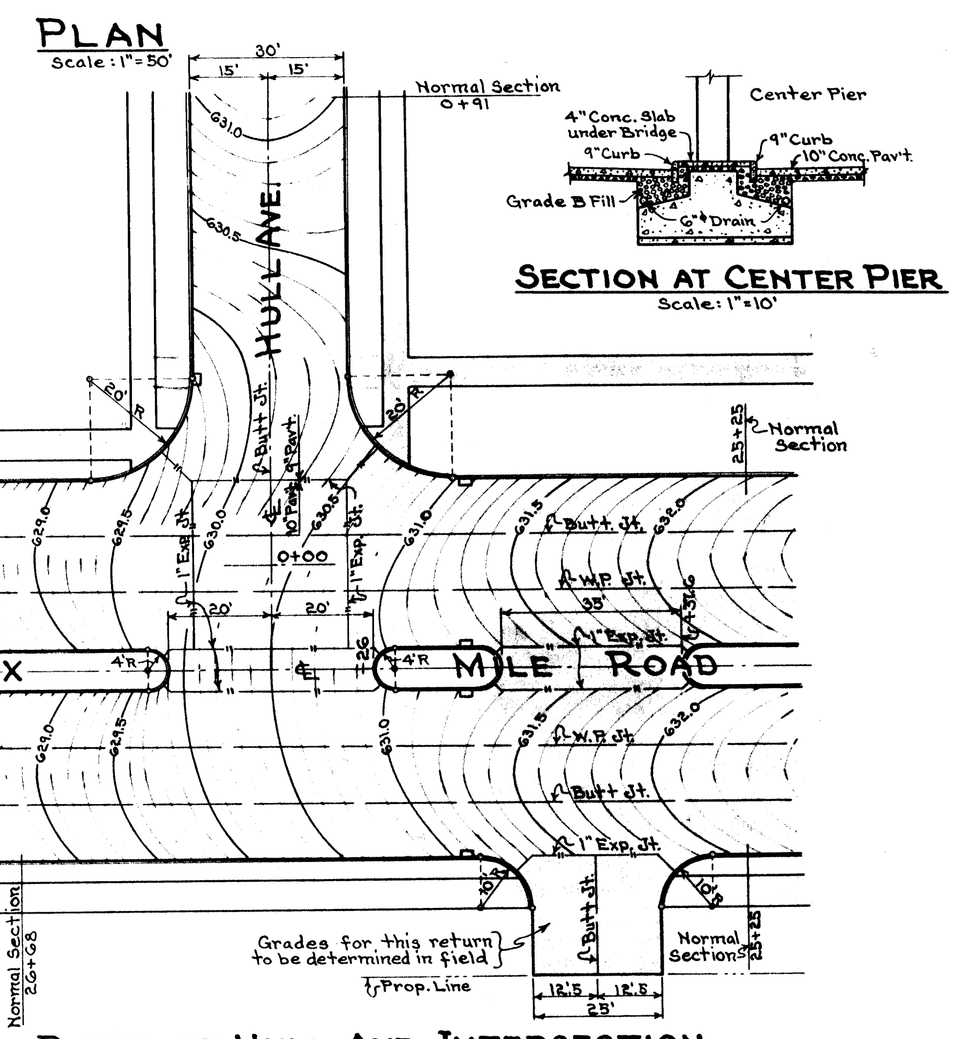


TYPICAL SECTION OF N.W. DRIVE

Scale: ¼"=1'-0"

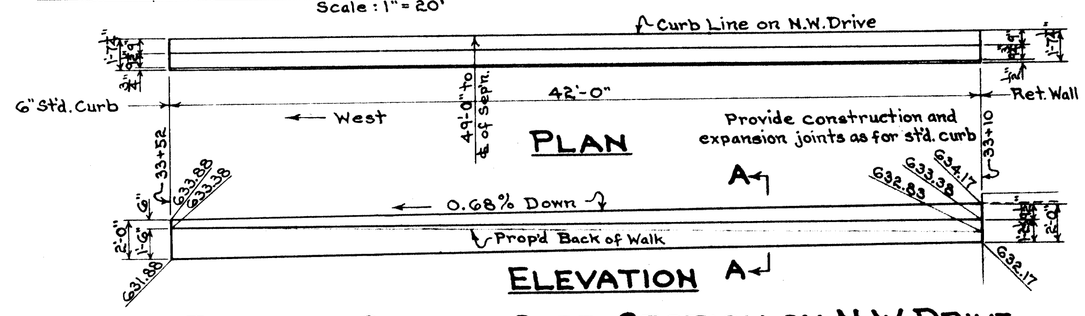
PLAN

Scale: 1"=50'



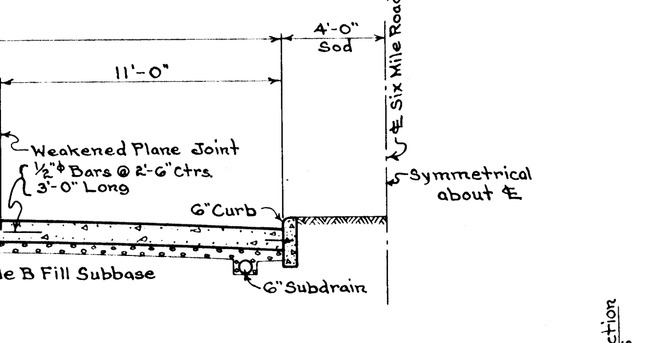
DETAIL OF HULL AVE. INTERSECTION

Scale: 1"=20'



DETAIL OF SPECIAL CURB SECTION ON N.W. DRIVE

Scale: 3/4"=1'-0"



SECTION AT CENTER PIER

Scale: 1"=10'

NOTES

Specifications:- Board of Wayne County Road Commissioners General Specifications dated May 1, 1940 and Supplementary Specifications for Job*554.

Aggregate for Concrete:-
Pavement { Coarse – Designation C-1.
Fine – " S-1

For Paving Grades on ℄ see General Drawing Sh.*1.
Compacted Grade B fill 5" thick under pavements and 3" thick under walks to be placed between Sta. 25+90 and Sta. 33+00.
See Standard Drawing for Standard Curb Details.
See Standard Drawing for Paving Joint Details. Omit ½" ϕ tie bars at transverse weakened plane joints.

QUANTITIES

10" Concrete Pavement	8740	Sq.Yds.
9" " "	2300	"
6" Standard Curb	4270	L.F.
9" Standard Curb	560	"
6" to 9" Standard Curb	160	"
Special Curb	42	" (4.0 Cu.Yds.)
4" Roll Curb	362	" (16.8 Cu.Yds.)
4" Concrete Walk	16,220	Sq.Ft.
Sod	4,830	Sq.Yds.

Grade B Fill:-

5" Under Pavement	720	Cu.Yds.
3" Under Walks	60	" "
Over Abutment Footings	160	" "
" Pier Footing	65	" "
Over Toe of Ret. Wall Footing	65	
Total =	1070	Cu.Yds.

REVISIONS
Misc. Revisions 5-23-41 G.J.P.
West End & Quantities revised 5-29-41 G.J.P.

JOB No. 554

ISSUE NO. 2
DATE 6-11-1941

BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN

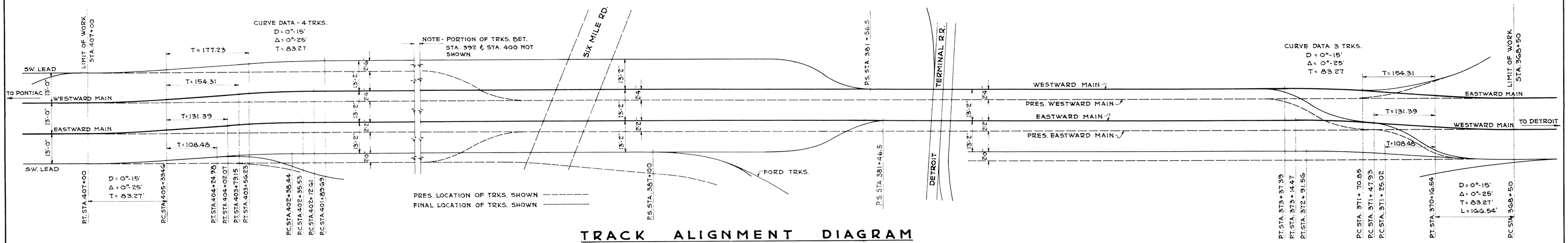
MICHAEL J. O'BRIEN, VICE CHAIRMAN
JOHN F. BREINING, COMMISSIONER
CHARLES L. WILSON, CHAIRMAN

PAVING PLAN
SIX MILE ROAD – G.T.W.R.R. HOLLEY DIV.
GRADE SEPARATION

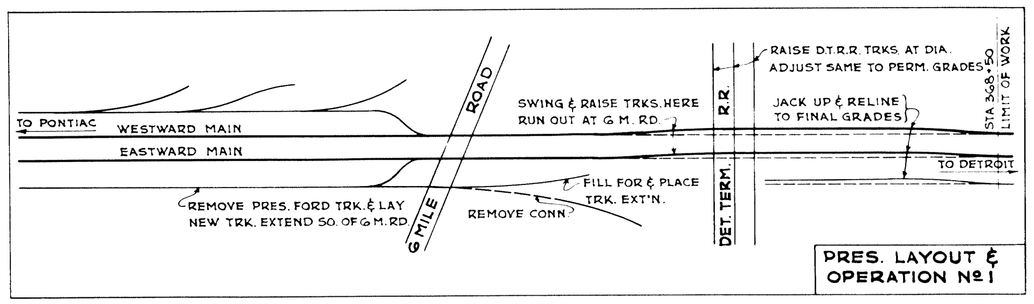
DESIGNED BY ____ DRAWN BY G.J.P. CHECKED BY H.W.
DATE 1-27-41 SCALE As Shown CORRECT ____ CHIEF DESIGNER
APPROVED ____ BRIDGE ENGINEER ____ REG. CIV. ENG.
APPROVED ____ COUNTY HIGHWAY ENGINEER ____ REG. CIVIL ENG.

SHEET NO. 10

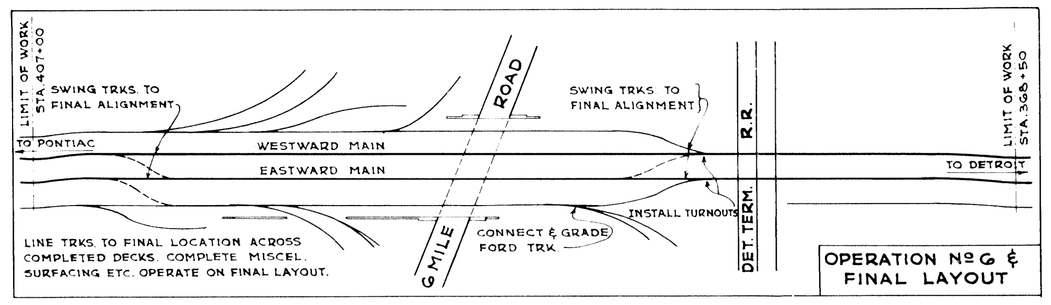
200 10-14-38 THE FREDERICK POST CO



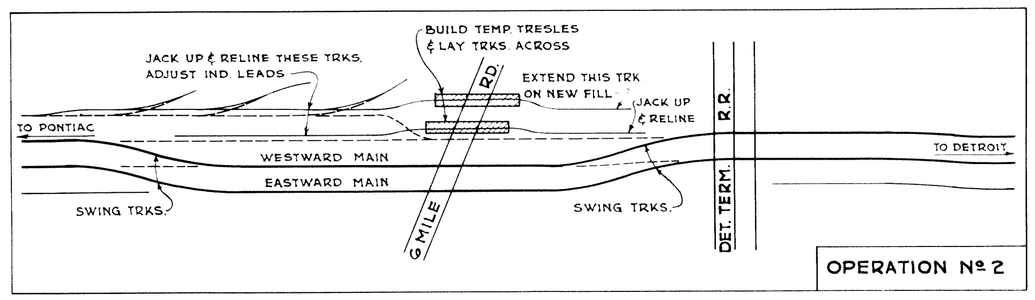
TRACK ALIGNMENT DIAGRAM



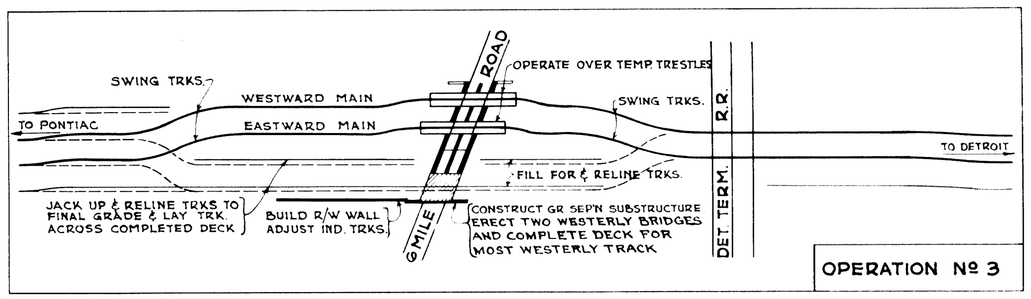
PRES. LAYOUT & OPERATION Nº 1



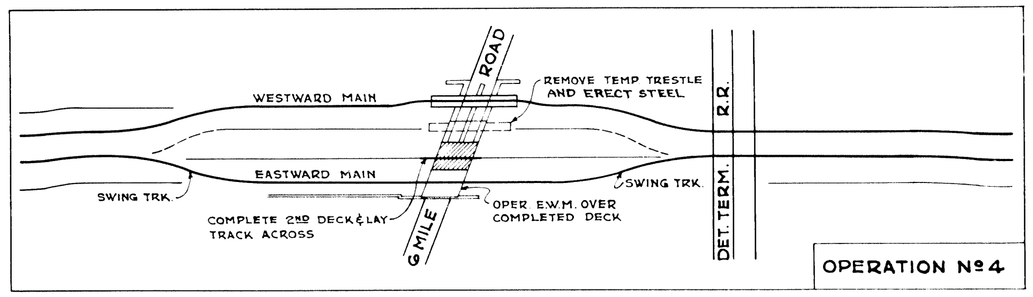
OPERATION Nº 6 & FINAL LAYOUT



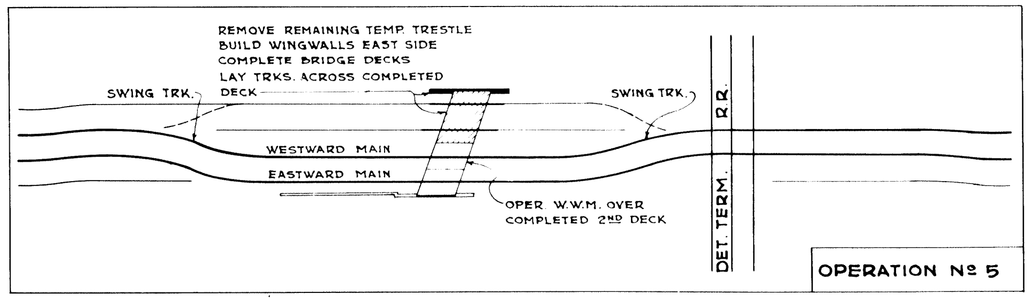
OPERATION Nº 2



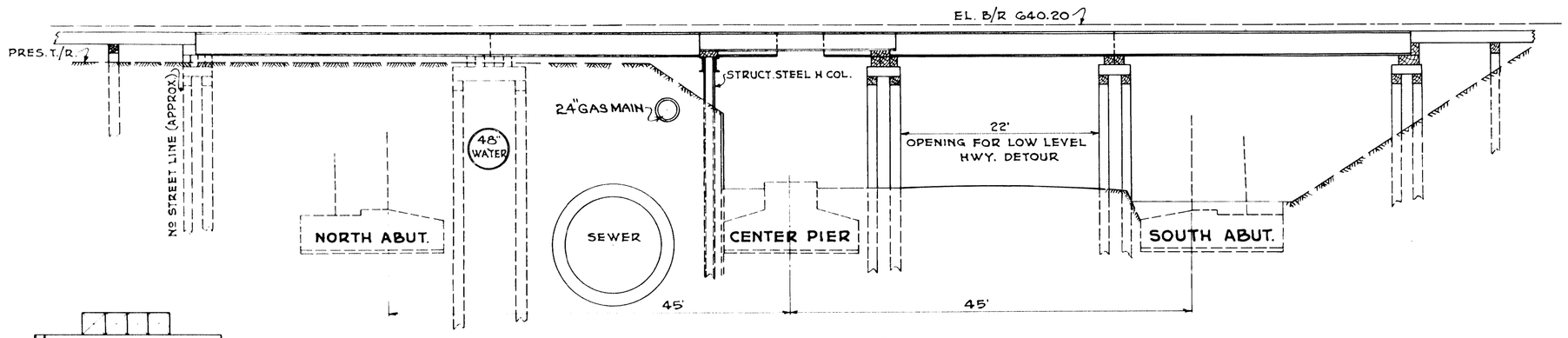
OPERATION Nº 3



OPERATION Nº 4



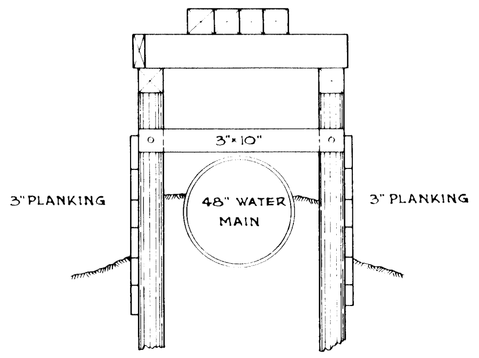
OPERATION Nº 5



SECTION AT RT. ANGLE TO ℄ STREET

SHOWING HWY. DETOURS OVER ℄ UNDER R.R. TRESTLE

SCALE 1" = 10'



ALT. FOR BRACING BENT Nº 5

TO BE USED IF 48" WATER MAIN IS STILL IN SERVICE AT TIME OF EXCAVATION

SCALE 1/4" = 1'-0"

ISSUE Nº DATE

GRAND TRUNK WESTERN RAILROAD

SIX MILE ROAD GRADE SEPARATION

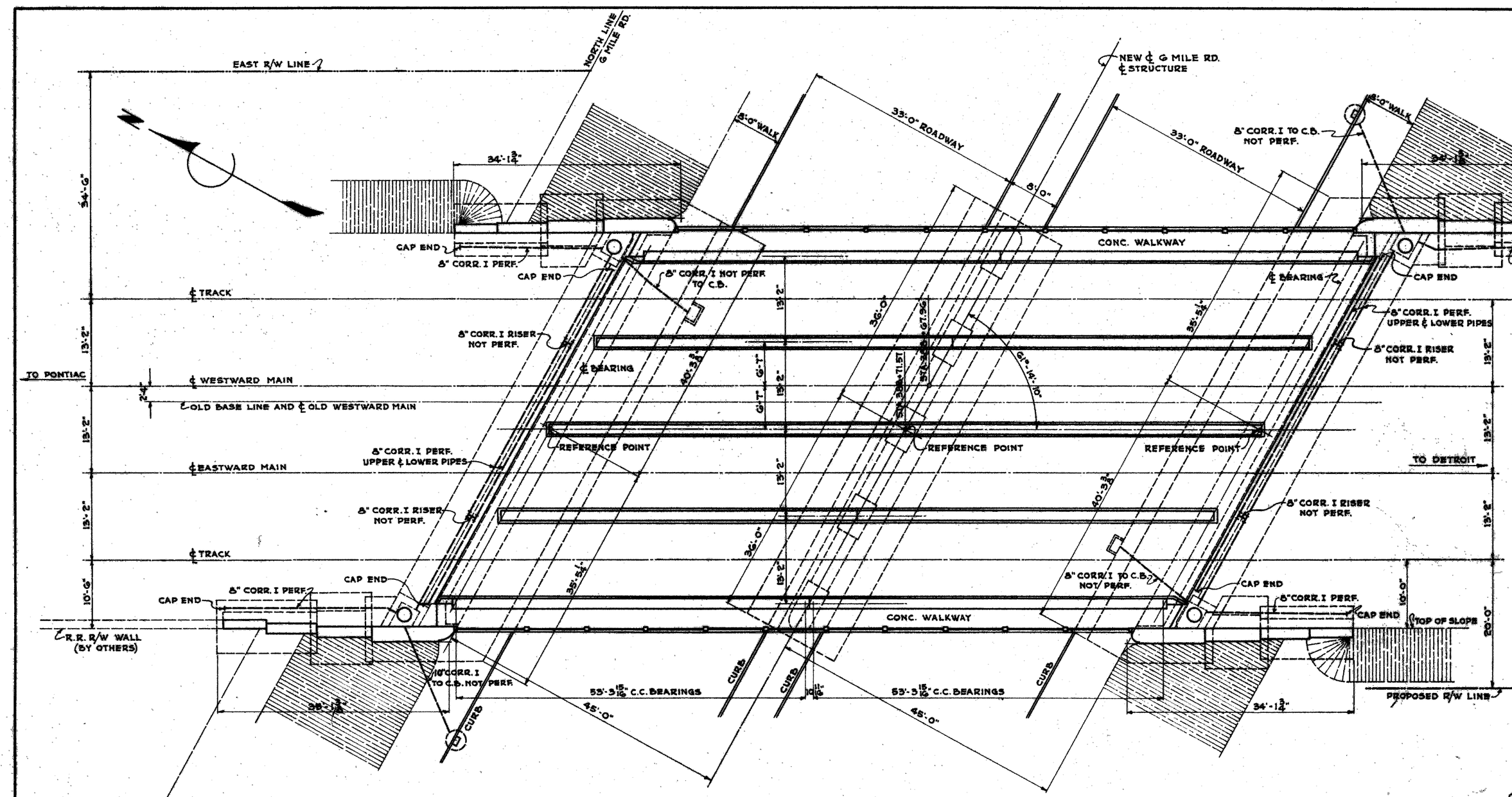
HIGHLAND PARK - DETROIT

WAYNE COUNTY, MICH.

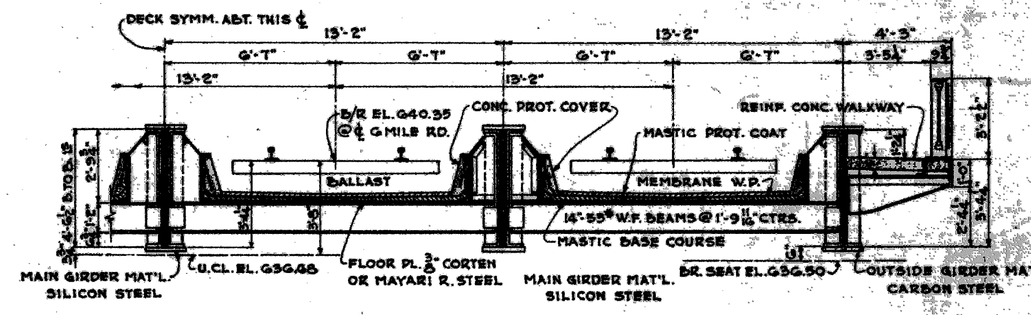
OPER. SCHEDULE - TRK. LAYOUTS & SECTIONS

SCALES AS SHOWN

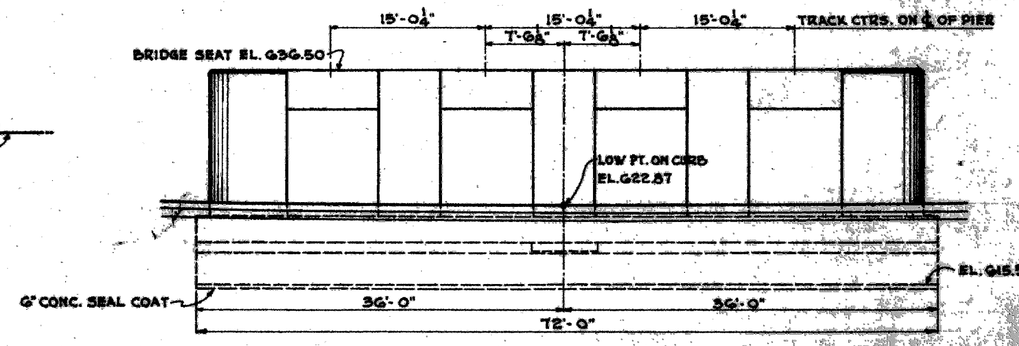
DR. M.J.B.	OFFICE OF CHIEF ENGINEER	JOURNAL Nº
TR. L.E.B.	DETROIT, MICHIGAN	W-6345
CH. T.H.J.	MAR. 12, 1941	FILE



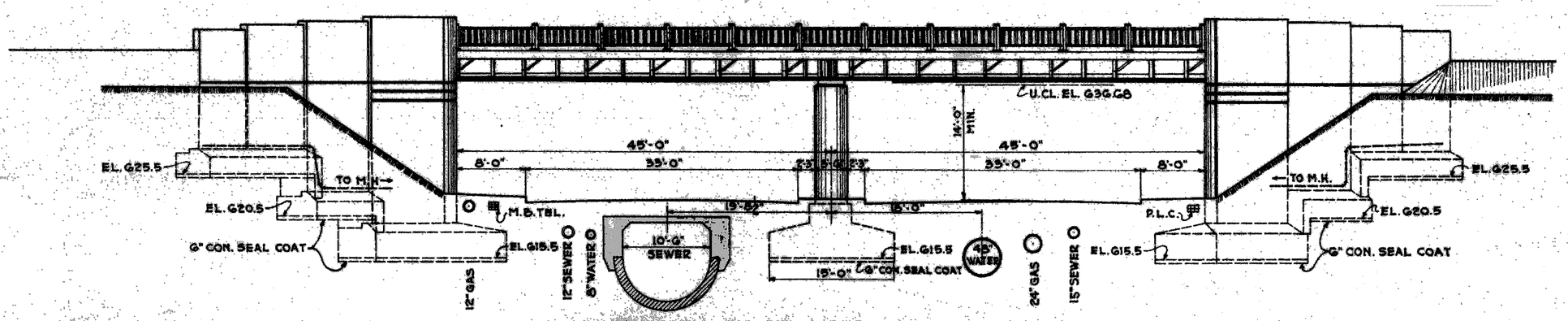
PLAN
SCALE 1"=10'



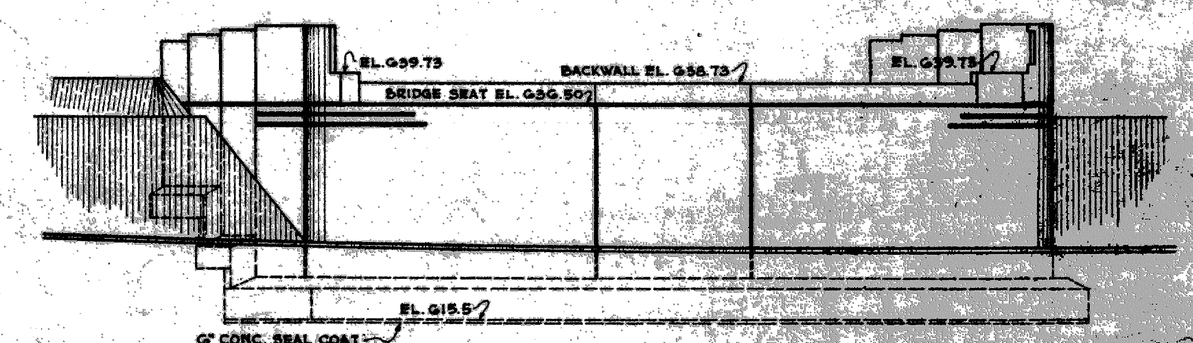
HALF SECTION THRU DECK
SCALE 1/4" = 1'-0"



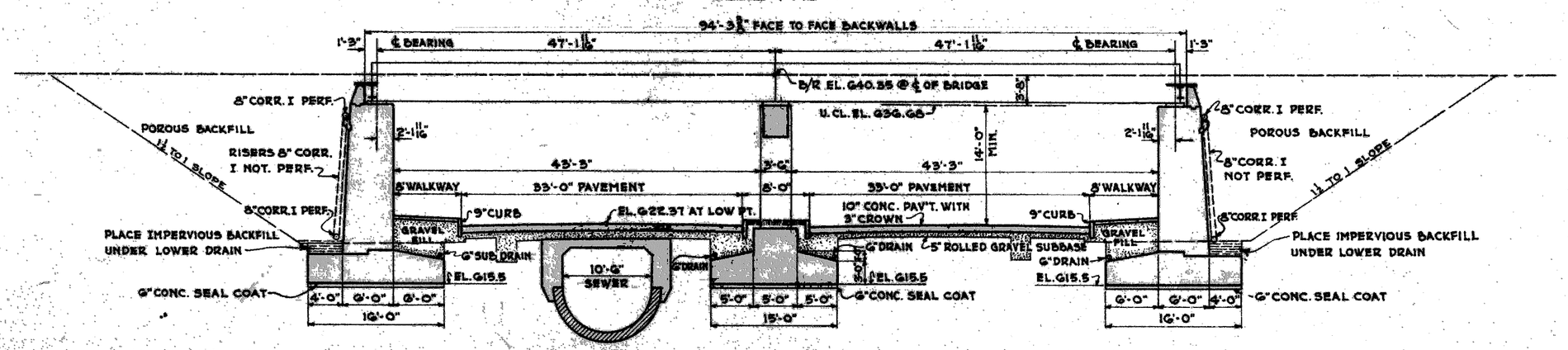
ELEVATION OF PIER
SCALE 1"=10'



ELEVATION AT RT. ANGLE TO G MILE RD.
SCALE 1"=10'



ELEVATION OF ABUTMENT
SCALE 1"=10'



CROSS SECTION AT RT. ANGLE TO STREET
SCALE 1" = 10'

GRAND TRUNK WESTERN RAILROAD

SIX MILE ROAD GRADE SEPARATION

HIGHLAND PARK - DETROIT
WAYNE COUNTY, MICH.

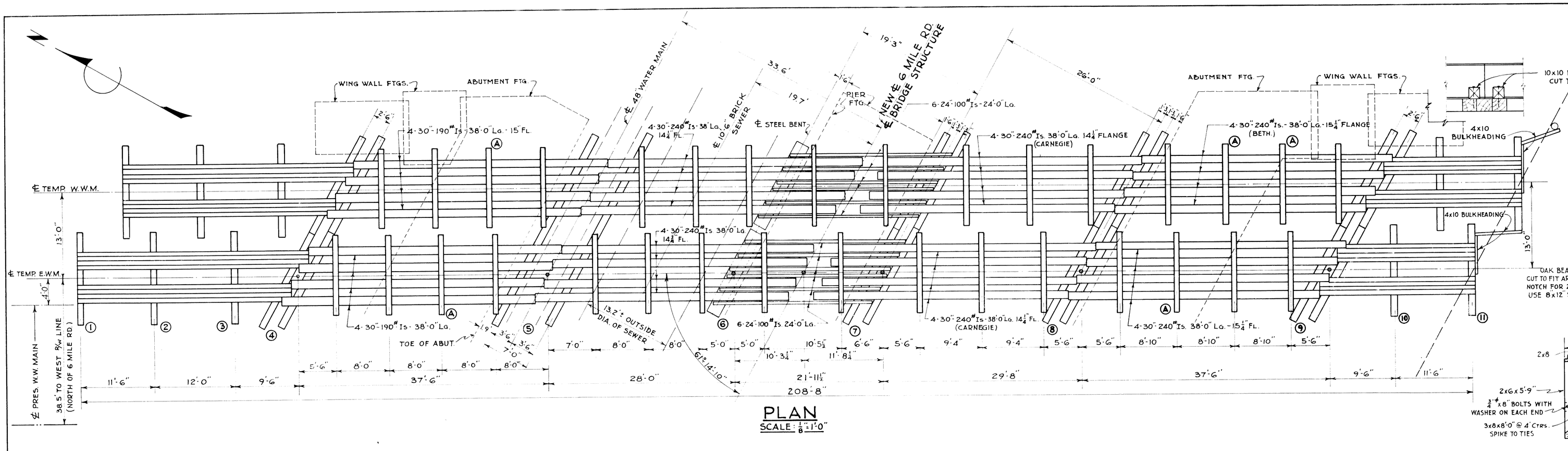
GENERAL PLAN & SECTIONS

SCALES AS SHOWN

DR. M.J.S. TR. L.E.S. CH. R.E.M.	OFFICE OF CHIEF ENGINEER DETROIT, MICHIGAN. FEB. 28, 1941.	JOURNAL W- 63 FILE

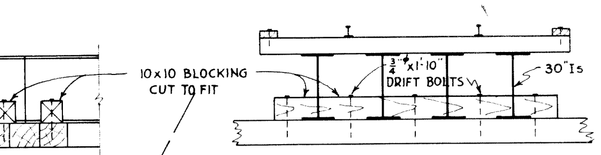
ISSUE No 3 DATE 6/11/41

SHEET G3 OF 16 SHEETS

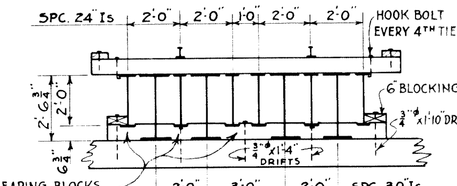


PLAN

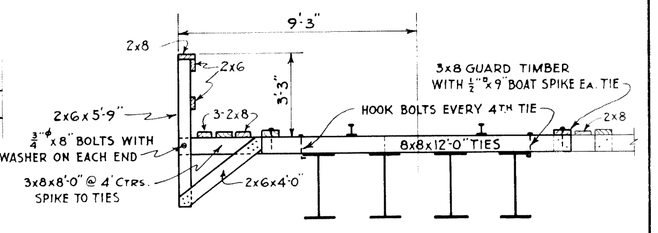
SCALE: 1/8" = 1'-0"

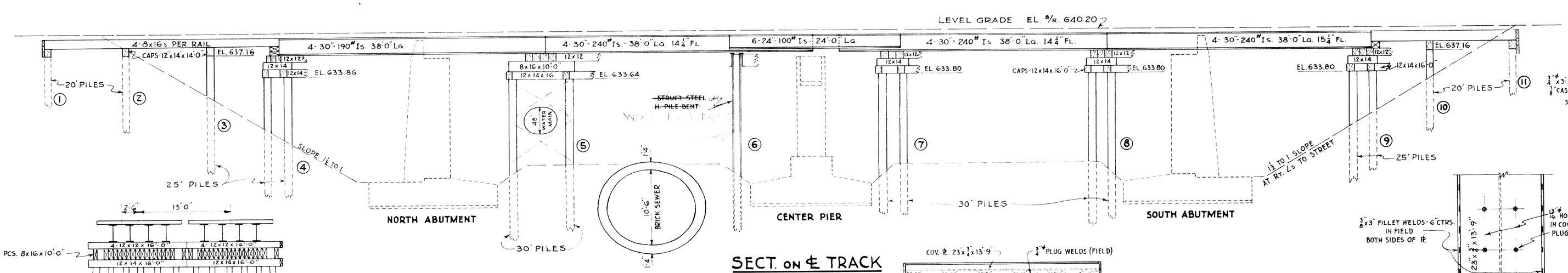


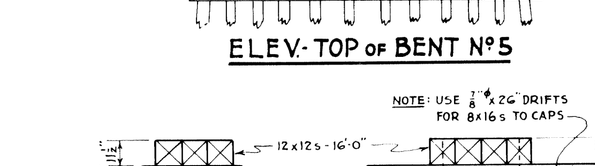
SECT. AT BENTS-4,5,8 & 9



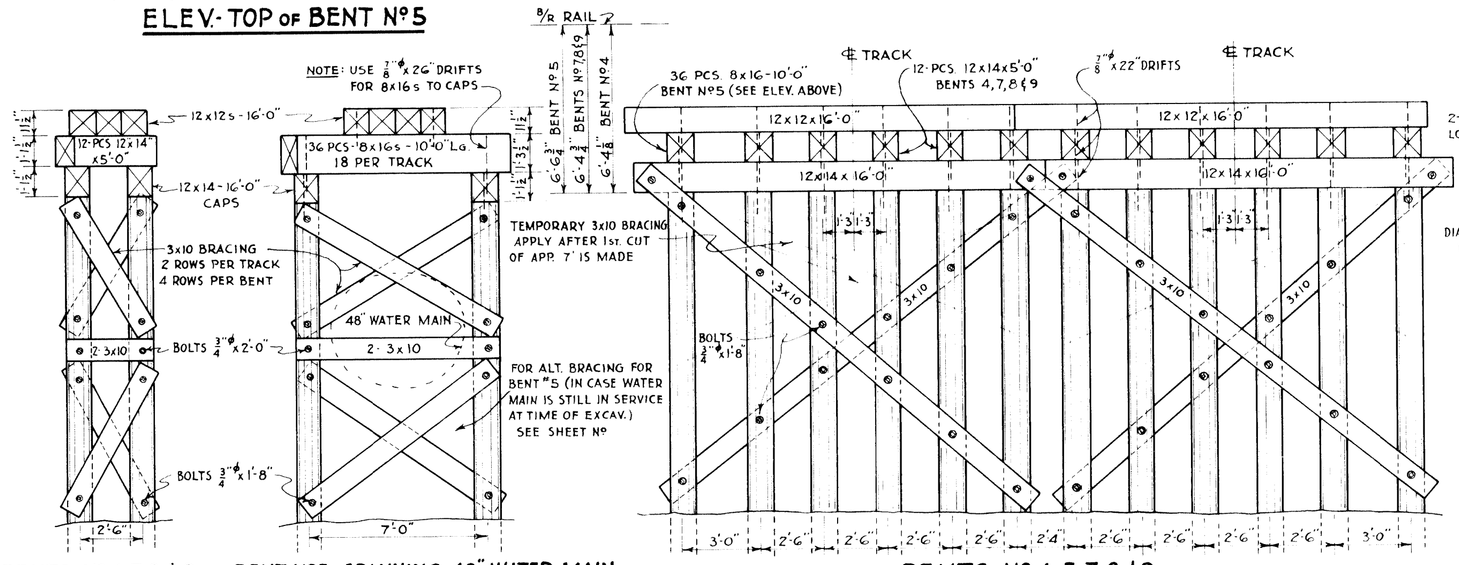
SECT. AT BENT Nº 7







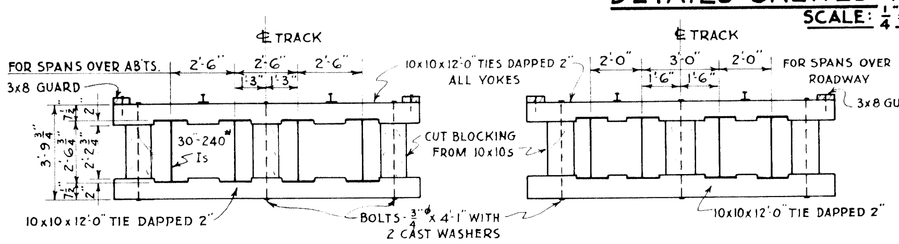
ELEV.- TOP OF BENT Nº 5



BENTS Nº 4,7,8 & 9 — BENT Nº5- SPANNING 48" WATER MAIN — BENTS Nº 4,5,7,8 & 9

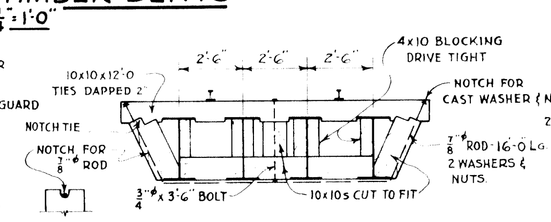
DETAILS-SKEWED TIMBER BENTS

SCALE: ¼" = 1'-0"



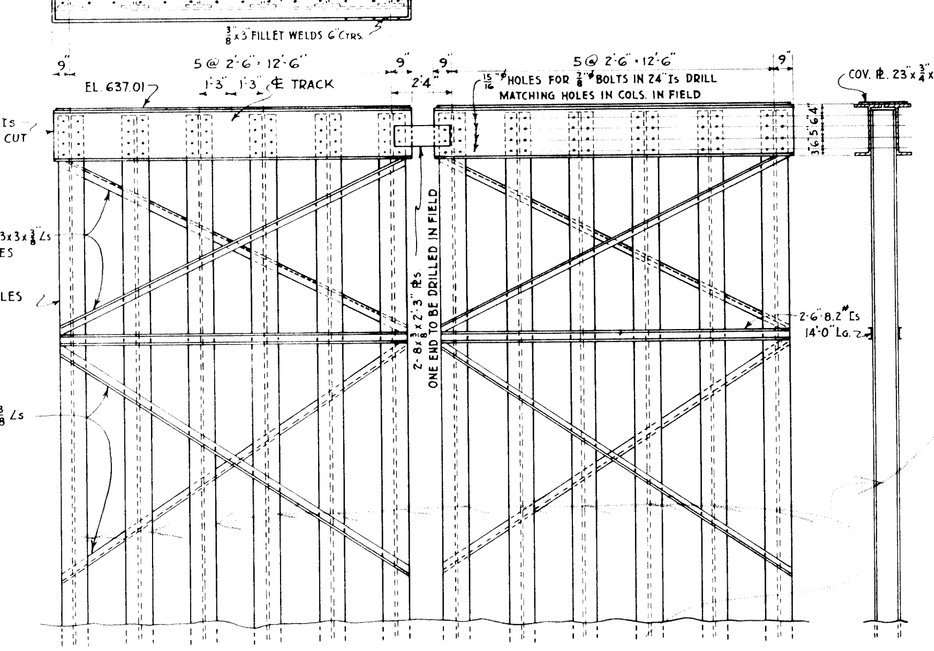
YOKE DETAILS FOR 30" BEAMS

SCALE: ¼" = 1'-0"



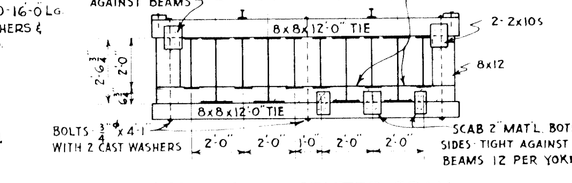
DETAIL YOKE "A" - 5 REQ'D.

SECT. ON ℄ TRACK



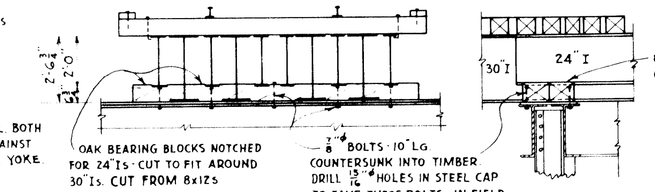
DETAILS - BENT Nº6

SCALE: ¼" = 1'-0"



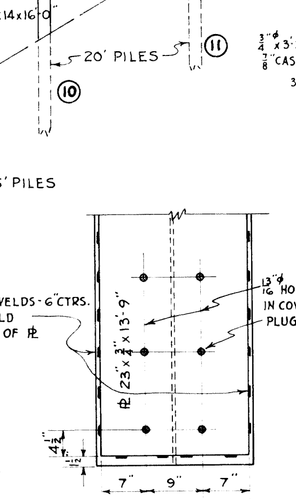
YOKES FOR CENTER SPAN

4 REQ'D.



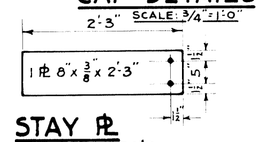
SECTIONS AT BENT Nº 6

BEAM SPACING SAME AS BENT Nº7



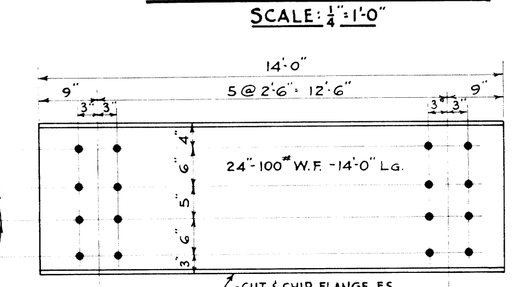
CAP DETAILS

SCALE: ¾" = 1'-0"



STAY PL

2 REQ'D.



CAP BEAMS - 4 REQ'D.

BILL OF MATERIAL - BENT Nº 6
PILING - 12 - 12"-65" W.F. Is - 35'-0" Long
CAP - 4 CAP BEAMS - 24"-100" W.F. Is - 14'-0" Long
" - 2 CAP PLs. 23"x ⅜" x 13'-9"
BRACING - 4 Pcs. 6"C@8.2" - 14'-0" Long
" 4 Pcs. 3"x3"x ⅜" ∠ - 15'-0" Long
" 4 Pcs. 3"x3"x ⅜" ∠ - 16'-0" Long
BOLTS - 200 - ¾" x 2½" Incl. Nuts
STAY PLs. 2 - 8" x ⅜" x 2'-3"

WALKWAY DETAILS

PROVIDE WALKWAY FOR EACH TRACK

DETAILS - BENTS - 1, 2, 3, 10, & 11

SCALE: ¼" = 1'-0"

ALL WORK THIS SHEET BY R.R. CO.

GRAND TRUNK WESTERN RAILROAD

SIX MILE ROAD GRADE SEPARATION

HIGHLAND PARK - DETROIT

WAYNE COUNTY, MICH.

TEMPORARY TRESTLES

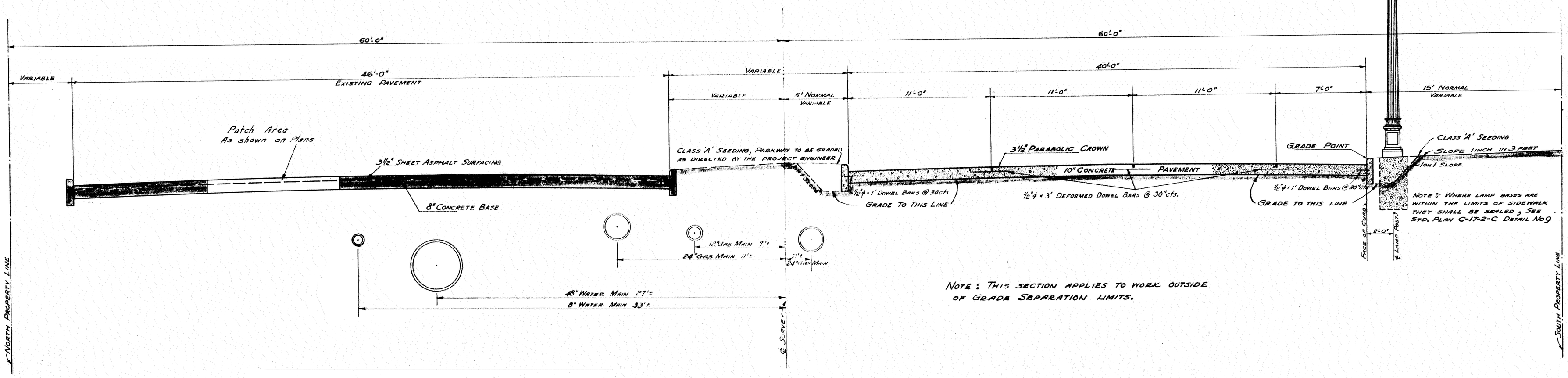
SCALES AS NOTED

DR. M.J.B. TR. E.R.S. CH. R.E.M.	OFFICE OF CHIEF ENGINEER DETROIT, MICHIGAN JAN. 22-1941.	JOURNAL Nº W- 6347

ISSUE Nº 2 DATE

TYPICAL CROSS-SECTION

SCALE 1"=4'



NOTE : THIS SECTION APPLIES TO WORK OUTSIDE OF GRADE SEPARATION LIMITS.

GENERAL NOTE

The Board of Wayne County Road Commissioners will furnish the following materials F.O.B. contractors truck at Wayne yard.
All one inch expansion material for pavement construction.
All one inch expansion material for curb construction.
All preformed joint material for plane of weakness joints, these pieces are ½" x 3½" and are in 3'-4' and 5' lengths.
All expansion joint material for sidewalk construction.
All standard manhole castings. Std Plan C-17-2-A Detail 9
All standard catchbasin castings. Std Plan C-17-2-A Detail 8

The Board of Wayne County Road Commissioners will supply cement to the contractor, F.O.B. trucks at job site. See standard specifications Section 59, Page 21.

The location of all Public Utilities is taken from the best available data. The Board will not be responsible for any omissions or variations from the locations shown.
All earthwork quantities are included in the profile balances.
All waste excavation shall be disposed of by the contractor.
Cast Iron traps shall be as called for on standard sheet S-3-C.
Drop curb at all driveways.
Transverse plane of weakness joints shall be constructed without tie bars.
All sewer and culvert pipe shall be Bell & Spigot pipe.

B.M. "E" - Elev. 634.849
Arrow on Hydrant
N.W. Cor. Riopelle + 6 Mile

B.M. "F" - Elev. 637.231
Arrow on Hydrant
N.W. Cor. Marx + 6 Mile

GREELEY

RIOPELLE

ORLEANS

MARX

Remove 3½" Asphalt 6.6 Sq. yds.
Remove 8" Conc. Base 6.6 Sq. yds.

Remove 3½" Asphalt 48 Sq. yds.
Remove 8" Conc. Base 48 Sq. yds.

Remove 3½" Asphalt 12 Sq. yds.
Remove 8" Conc. Base 12 Sq. yds.

Remove 3½" Asphalt 22.0 Sq. yds.
Remove 8" Conc. Base 22.0 Sq. yds.

Remove 3½ Asphalt 35.8 Sq. yds.
Remove 8" Conc. Base 35.8 Sq. yds.

Remove 3½" Asphalt 12.0 Sq. yds.
Remove 8" Conc. Base 12.0 Sq. yds.

Grade Sepr.

Remove Ex. C.B

Remove Ex. C.B

Remove Ex. C.B

Removing Curb
Sta 19+27 - 23+95 L 468 lin. ft.
Sta. 19+86 - 23+95 R. 410 lin. ft.
Removing 10" Concrete
Sta 19+86 - 23+95 R&L 478.3 Sq. yds.
Removing 3½" Asphalt Top
Sta 19+86 - 23+95 1690.8 Sq. yds.
Removing 8" Conc. Base
Sta 19+86 - 23+95 1690.8 Sq. yds.
Removing 8" Conc. (Drive)
Sta 23+02 - 23+95 88.0 Sq. yds.

Removing 3½" Asphalt Top
Sta 18+68 - 19+20 208.0 Sq. yds.
Removing 8" Conc. Base
Sta 18+68 - 19+20 208.0 Sq. yds.

Moving Fence
6.0 Rods
Removing Fence
6.0 Rods
Removing Foundation 10.2 Cu. Yds.
Place Sand Backfill 40.0 Cu. Yds.

Removing 3½ Asphalt Top
Sta 17+25 - 18+20 297.3 Sq. yds.
Removing 8" Conc. Base
Sta 17+25 - 18+20 297.3 Sq. yds.

Removing Curb
Sta 15+55 - 16+49 94 lin ft.
Removing 10" Conc.
Sta 15+50 - 16+49 55.5 Sq. yds.
Removing 8" Conc (Dr.) 423.0 Sq. yds.
Remove Gas Pump base (3 pumps)
Remove Gas Storage Tanks (3)
Remove Foundation 24.1 Cu. yds.
Place Sand backfill 30.0 Cu. yds.

Removing Curb
Sta 10+67 - 14+68 419 lin ft.

Remove 3½" Asphalt 12.0 Sq. yds.
Remove 8" Conc. Base 12.0 Sq. yds.

Proposed Property Line

Wall

Trip Rock

Sta 5+33 Sta "N"

Sta 5+33 Sta "S"

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
GRADES CHECKED
BY
M.S. NOTED
STRUCTURE NO. AT INTSC. OF R.R.
NO.
DATE
BY

PLAN
SURVEYED
PLOTTED
NOTE BOOK
HIGHWAY CHECKED
RT. OF WAY CHECKED
NO.
DATE
BY

CUT AND FILL

Elev. 633.32 (+9.5)
Elev. 633.07 (+9.5)
Top of N. Pave.
Top of S. Pave.
+0.30%
+0.51%
-0.30%
Proposed T/C
S.T.W. C.B. Sta 23+23 Station
633.54
632.14
633.19
636.39
V. Walk
3 Rods
Existing S. T/C.
-0.48%
2 Cu. Yds. Concrete
27.00
114' - 12" @ 0.30%
260' - 12" @ 0.30%

REVISIONS

NO.	ITEM	BY	DATE	NO.	ITEM	BY	DATE

BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN

CHARLES L. WILSON
CHAIRMAN

MICHAEL J. O'BRIEN
VICE-CHAIRMAN

JOHN F. BEEMING
COMMISSIONER

SCALE 1" = 50'
DATE 3-14-41
TRANSIT BOOK Br. 250
LEVEL BOOK Br. 228

SIX MILE EAST

DRAWN BY M.
CORRECT ..... Road Engineer ..... Reg. Pro. Eng.
APPROVED ..... County Highway Engineer ..... Reg. Pro. Eng.

PLATE I-PLAN-PROFILE B.P.R. STANDARD

FILE

SHEET NO. 12

B.M.# B - Elev. 636.896
Arrow on Fire Hydrant
N.W. Cor. Cameron + 6 Mile

B.M.# A - Elev. 636.351
Arrow on Fire Hydrant
N.W. Cor. Cardoni + 6 Mile

R.R. B.M.# 5 - Elev. 634.414
Top of bolt - S.W. Cor. of N.E Flasher
G.T.W. R.R. + 6 Mile

B.M.# D - Elev. 637.065
Arrow on Fire Hydrant
N.E. Cor. Hull + 6 Mile

CAMERON 28' Asph.

HAWTHORNE 28' Asph.

CARDONI 36' Concr.

SWIFT 28' Asph.

HULL 30' Asph.

ELM

1 St Br.

1 St Br. Factory

1 St Fr.

Gas Sta.

Store

Cut Office

Remove 3½" Asphalt 9.3 Sq. yds.
Remove 8" Conc. Base 9.3 Sq. yds.

Remove 3½" Asphalt 40.0 Sq. Yds
Remove 8" Conc. Base 40.0 Sq. Yds

Remove 3½" Asphalt 12.0 Sq. Yds
Remove 8" Conc. Base 12.0 Sq. Yds

12" Sew. Main

8" Sew. Main

Field Mon.

Remove Ex. C.B

Grade Sepr.

5" Conc.

36' Asphalt

5' Conc.

1/4 Survey

G.T.W. R.R.

Proposed Property Line

See Bridge Dept. Plans for all Work within Separation Limits.

Removing Curb
Sta 39+45 - 40+17 (L) 72 lin. ft.
Removing 8" Conc. (Drive) 252.2 Sq. yds.
Removing Foundation 27.1 Cu. yds.
Place Sand backfill 26.8 Cu. yds

Removing Curb
Sta 35+30 - 36+00 L - 70 lin. ft.
Sta. 35+30 - 34+91 R - 161 "
Removing 10" Conc - 39.4 Sq. yds
Removing 8" Conc Base - 284.0 Sq. yds.
Removing 3½ Sheet Asph. - 284.0 Sq. yds.

REVISIONS							
NO.	ITEM	BY	DATE	NO.	ITEM	BY	DATE

BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN

CHARLES L. WILSON, CHAIRMAN
MICHAEL J. O'BRIEN, VICE-CHAIRMAN
JOHN F. BREINING, COMMISSIONER

SCALE	1" = 50'
DATE	3-14-41
TRANSIT BOOK	BR 250
LEVEL BOOK	BR 288

SIX MILE EAST

DRAWN BY: M.
CORRECT: ..... Reg. Pro. Eng.
Road Engineer
APPROVED: ..... Reg. Pro. Eng.
County Highway Engineer

PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B. M.'s NOTED
STRUCTURE NOTATIONS CHECKED
NOTE BOOK
NO.
BY
DATE

CUT AND FILL

PROPOSED T/C
-0.30%
EXISTING S/W
+0.29%
G.T.W. R.R. Grade Separation
E Top of N Pave.
E Top of S. Pave.
N Walk
633.82
634.28
634.82 (-.30)
634.98 (-.20)
633.38
633.13
633.68
633.43
633.98
634.13
634.28
634.14
634.01
633.87
634.10
634.37
634.82
156 M.H.
634.54
634.54
640
635
630
40
39
38
37
36
35
34
33
32
31
30
29
28
27
26
25

PLATE I-PLAN-PROFILE & P.R. STANDARD
EUGENE DIETZGEN CO. CHICAGO NEW YORK

FILE

SHEET NO. 13

Printed in U.S.A.
On IMPERIAL Tracing Cloth

PLATE HPLANPROFILE [illegible] STANDARD

Printed in U.S.A. On IMPERIAL Tracing Cloth

FILE

SHEET NO. (14)

40 41 42 43 44 45

G30 G35 G40

Elev. 632.29 | Elev. 631.48 | Elev. 632.89 | Elev. 633.55

276' - 12" @ .30%

+0.30%

3 Mod.

Existing ℄

PROPOSED ℄

632.93

N. WING

EXISTING EDGE OF MAT
PROPOSED ℄ OF CURB

EXISTING EDGE OF MAT
PROPOSED ℄ OF CURB

PROFILE

SURVEYED
PLOTTED
GRADES CHECKED
B.M.'s NOTED
STRUCTURE NOTATIONS CK'D

NOTE BOOK
NO.

BY

DATE

CUT AND FILL

NO.	ITEM	BY	DATE	NO.	ITEM	BY	DATE

REVISIONS

BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
DEARBORN, MICHIGAN

CHARLES L. WILSON, CHAIRMAN — MICHAEL J. O'BRIEN, VICE-CHAIRMAN
JOHN F. BRENNING, COMMISSIONER

SIX MILE ROAD

SCALE	DATE	LEVEL BOOK
1" = 50'	3-17-41	BK 258

DRAWN BY M

CORRECT ..... Road Engineer ..... Reg. Pro. Engr.

APPROVED ..... County Highway Engineer ..... Reg. Pro. Engr.

B.M. ℄ - Elev. 636.029
Arrow on Fire Hydrant
N.W. Cor. Oakland & Wanda

Remove 3½" Asphalt 11.1 sq. yds.
Remove 8" Conc. Base 11.1 sq. yds.

Remove 3½" Asphalt 80.0 sq. yds.
Remove 8" Conc. Base 80.0 sq. yds.
Remove 3½" Asphalt 5.6 sq. yds.
Remove 8" Conc. Base 5.6 sq. yds.

Remove Ex. C.B.

Relay Fire Hydrant

Remove 3½" Asphalt Top 509.9 sq. yds.
Remove 8" Conc. Base 509.9 sq. yds.
Remove 8" Conc. (Drive) 225.3 sq. yds.
Remove Curb 306.0 lin. ft.
Remove Sidewalk 102 sq. yds.
Remove Gas Pump Base (3-pumps)
Remove Gas Storage Tanks (2)

Remove Sidewalk Sta 39+61 - 40+10 207.7 sq. yds.
Remove 8" Conc. Drive 69.0 sq. yds.
Remove Foundation 143.4 sq. yds.
Place Sand Backfill 387.0 Cu. yds.

CHURCH

CAMERON

OAKLAND

WANDA

PROPOSED PROPERTY LINE

PLAN

SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED

NOTE BOOK
NO.

BY

DATE

℄ PROPERTY LINE

Patch Area

Patch Area

30'

℄ R.R. SURVEY

36

632.84 632.39 632.66 632.49 632.64 632.99 633.16

632.06 632.49 632.66 632.99 632.16 632.27 633.48 632.24 632.16 632.17

632.66 632.27 632.06 632.67 632.64 632.99 633.36 632.99 632.62 632.47 632.72 632.17

P.C. P.T. P.C.

P.I. P.I. P.I.

PROPERTY LINE

R.R.

P. O. D.

Place
1 Std. Br. C.B.
with Trap
39'-12" Culvert
1 Tap to C.B.

Approx. Curve Data
Δ = 9°-30'
D = 3°-30'
R = 1692'
T = 111'
P.I. Sta. 14+95

Place
1 Std. Br. C.B.
132'-18" Culvt.
(No trap)

Place
1 Std. Br. C.B.
with Trap
63'-12" Culvert

Approx. Curve Data
Δ = 9°
D = 4°-20'
R = 1323'
T = 104'
P.I. Sta. 11+71

REVISIONS							
NO.	ITEM	BY	DATE	NO.	ITEM	BY	DATE

BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN

CHARLES L. WILSON
CHAIRMAN

MICHAEL J. O'BRIEN
VICE CHAIRMAN

JOHN F. BEEMING
COMMISSIONER

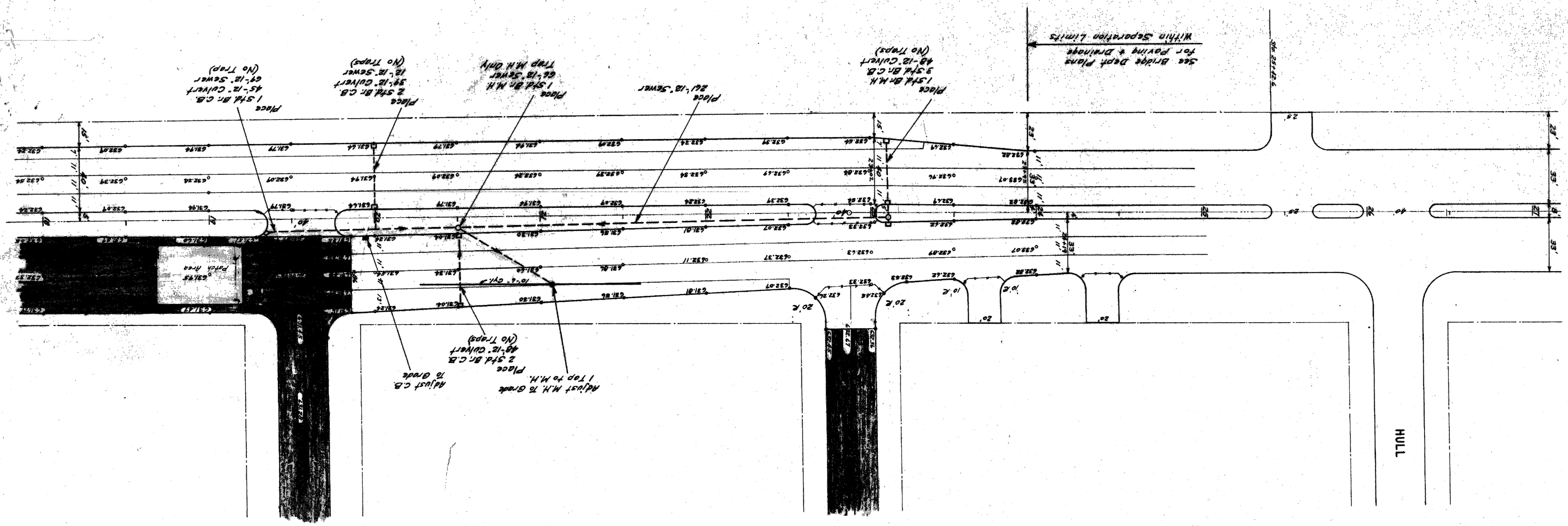
SCALE 1"=30'
DATE 4-16-41
TRANSIT BOOK Fr. 2.90
LEVEL BOOK Fr. 289

SIX MILE EAST

DRAWN BY M.
CORRECT
APPROVED

FILE

SHEET NO. 46



BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN

CHARLES L. WILSON, CHAIRMAN
MICHAEL J. DAREN, VICE CHAIRMAN
JOHN F. BREINING, COMMISSIONER

NO.	ITEM	BY	DATE	NO.	ITEM	BY	DATE

REVISIONS

SIX MILE EAST

SCALE 1" = 30'
DATE 4-17-41
TRACED BY
CHECKED BY
DRAWN BY M
LEVEL BOOK Bk. 268
CONTEST Bk. 230
APPROVED Chief Engineer

FILE

SHEET NO. 14

FILE 74-XL/45-92 SHEET NO. 17

REVISIONS									
NO.	ITEM	BY	DATE	NO.	ITEM	BY	DATE		

BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN

CHARLES L. WILSON — CHAIRMAN
MICHAEL J. O'BRIEN — VICE CHAIRMAN
JOHN F. BEENING — COMMISSIONER

SCALE 1" = 50'
DATE 4-21-41
TRANSIT BOOK Br. 250
LEVEL BOOK Br. 288

SIX MILE EAST

DRAWN BY M
CORRECT
APPROVED

Sta 85+50

See Bridge Dept. Plans
for Paving & Drainage
Within Separation Limits

Place 1-STA Br. 0.0
90°-12' Cuts
Construction Fencing
(No Map)

℄ Property Line

℄ Roadway

℄ Property Line

Adjust M.H. to Grade
1 Tap to M.H.
Place 1 Std. Br. M.H.
6'-12" Sewer
Trap M.H. Only.

Patch Area

Place
1 Std. Br. C.B.
30'-18" Culvert
(No Trap)

40'

Proposed 6' Walk

Place
1 Std. Br. C.B.
21'-18" Culvert
(No Trap)

Adjust 2 C.B.
To Grade

END OF CONCRETE PAV'T.

Place
276'-12" Sewer

Place
1 Std. Br. M.H.
2 Std. Br. C.B.
43'-18" Culvert
(No Traps)

REVISIONS							
NO.	ITEM	BY	DATE	NO.	ITEM	BY	DATE

BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN
CHARLES L. WILSON, CHAIRMAN
MICHAEL J. O'BRIEN, VICE CHAIRMAN
JOHN F. BREINING, COMMISSIONER

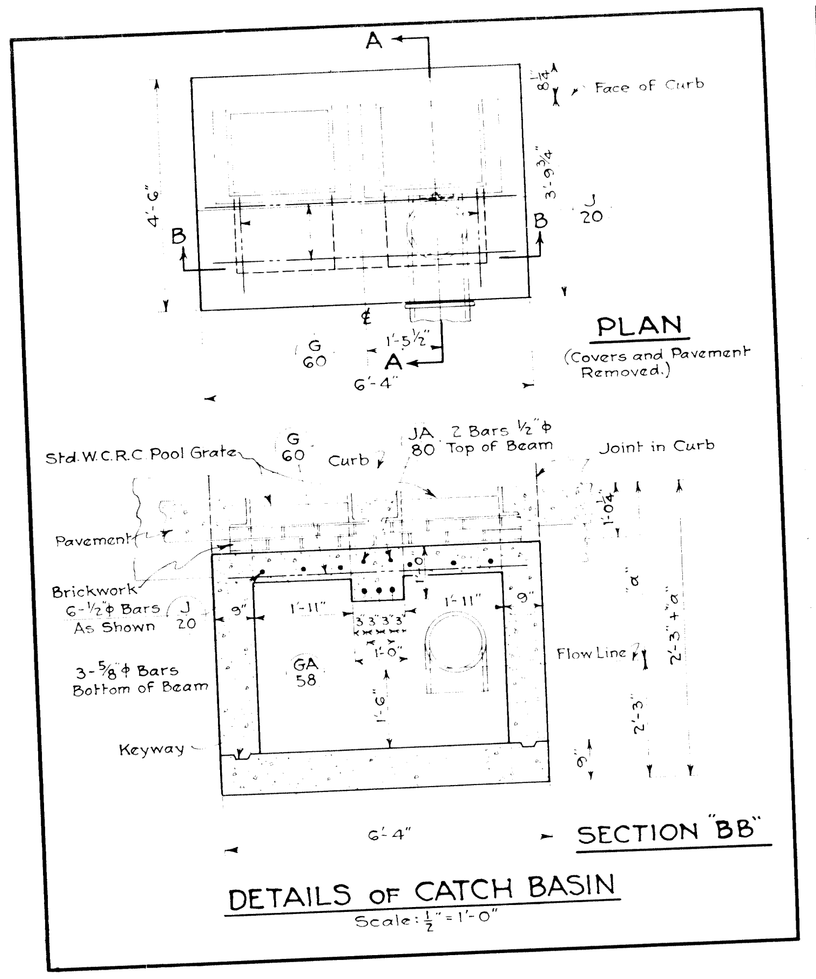
SCALE 1" = 30'
DATE 4-22-41
TRANSIT BOOK BR. 260
LEVEL BOOK BR. 208

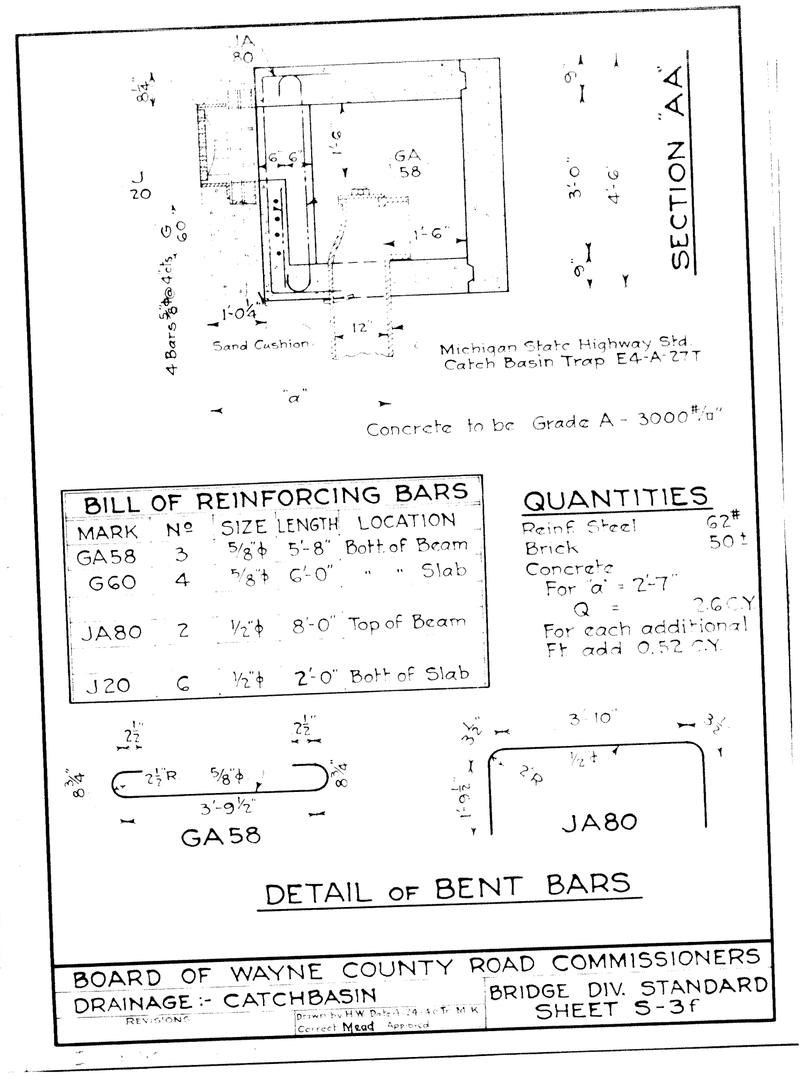
SIX MILE EAST

DRAWN BY M
CORRECT ..... Insp. Prin. Engr.
Road Engineer
APPROVED ..... Insp. Prin. Engr.
County Highway Engineer

FILE

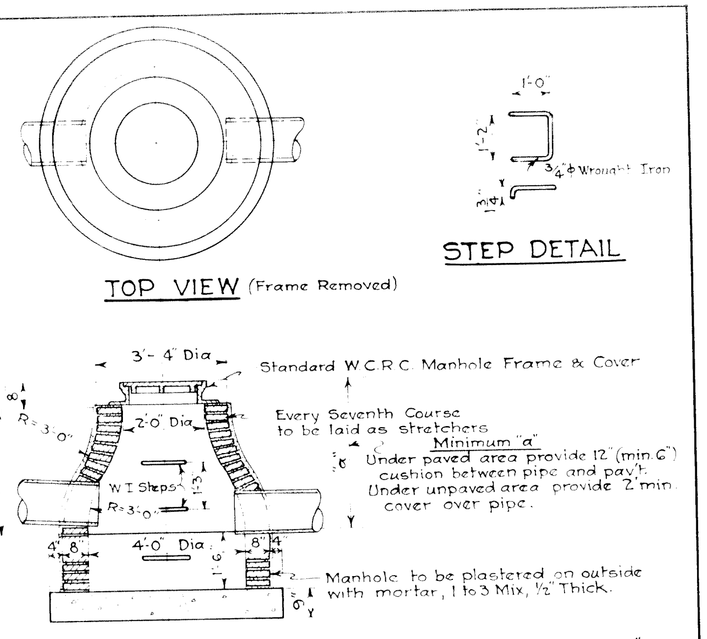
SHEET NO. 18





BOARD OF WAYNE COUNTY ROAD COMMISSIONERS

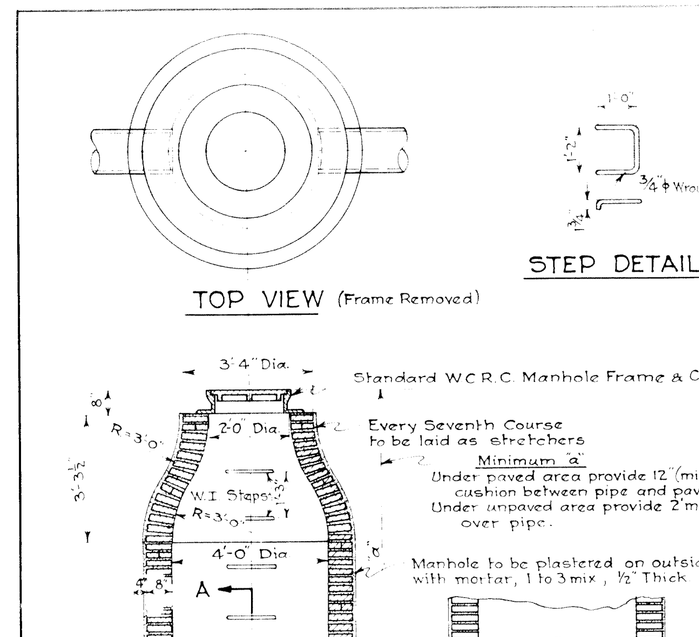
DRAINAGE :- CATCHBASIN	BRIDGE DIV. STANDARD SHEET S-3f
REVISIONS	Drawn By H.W. Date 4-24-47 Tr. M.K. Correct Mead Approved



BOARD OF WAYNE COUNTY ROAD COMMISSIONERS

DRAINAGE :- MANHOLE (WITH SUMP)	BRIDGE DIV. STANDARD SHEET S-3e
REVISIONS	Drawn By H.W. Date 4-24-47 Tr. M.K. Correct Mead Approved

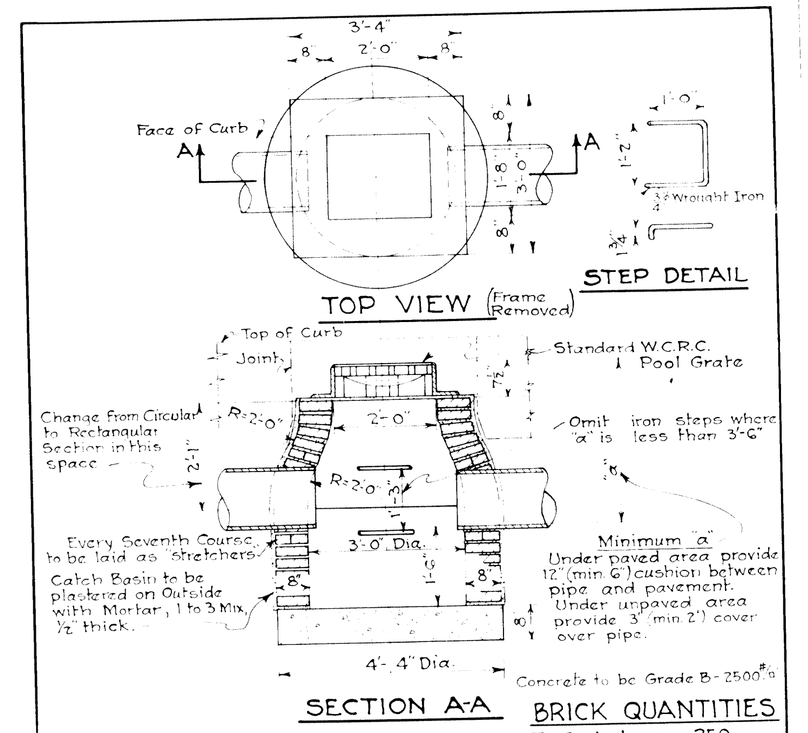
ISSUE DATE 194



BOARD OF WAYNE COUNTY ROAD COMMISSIONERS

DRAINAGE :- MANHOLE (WITHOUT SUMP)	BRIDGE DIV. STANDARD SHEET S-3d
REVISIONS	Drawn By H.W. Date 4-24-47 Tr. M.K. Correct Mead Approved

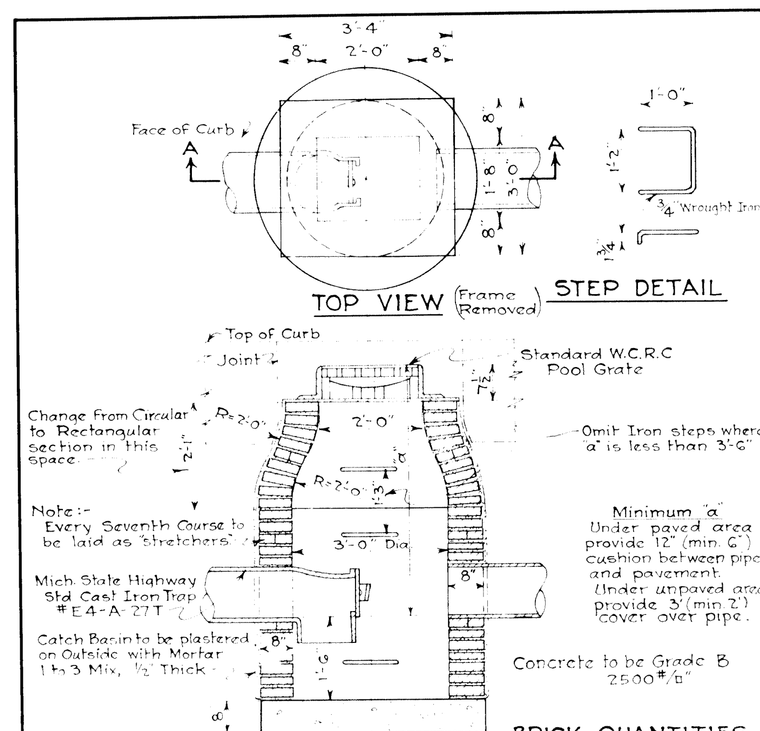
ISSUE NO. DATE 194



BOARD OF WAYNE COUNTY ROAD COMMISSIONERS

DRAINAGE :- CATCH BASIN	BRIDGE DIV. STANDARD SHEET S-3b
REVISIONS	Drawn By H.W. Date 4-24-47 Tr. M.K. Correct Mead Approved

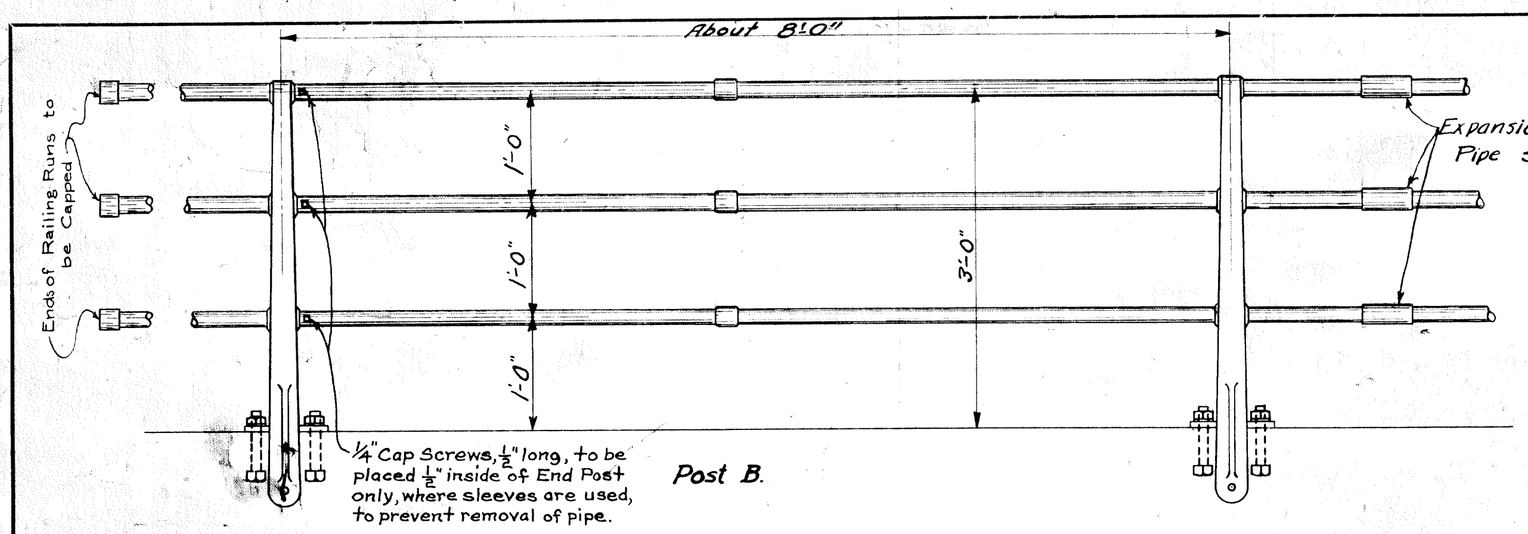
ISSUE NO. DATE 194



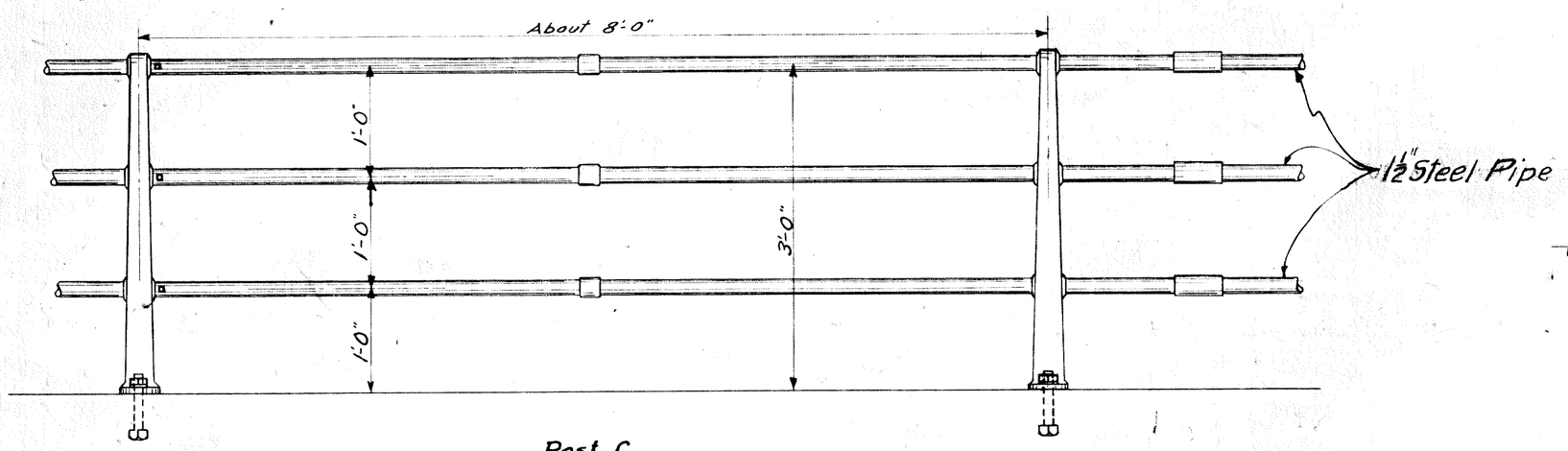
BOARD OF WAYNE COUNTY ROAD COMMISSIONERS

DRAINAGE :- CATCH BASIN (WITH TRAP)	BRIDGE DIV. STANDARD SHEET S-3c
REVISIONS	Drawn By H.W. Date 4-24-47 Tr. M.K. Correct Mead Approved

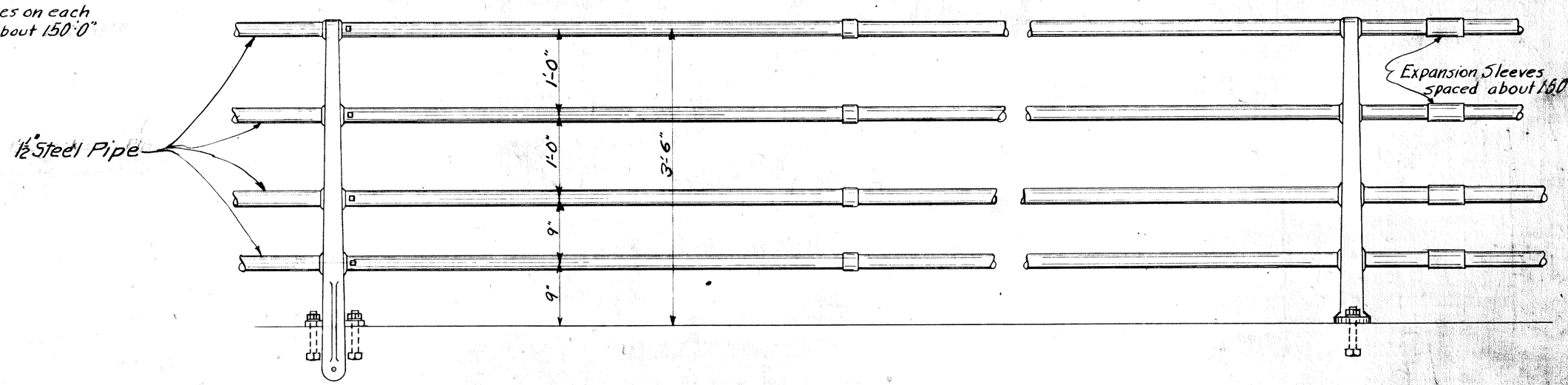
ISSUE DATE 194



Post B.

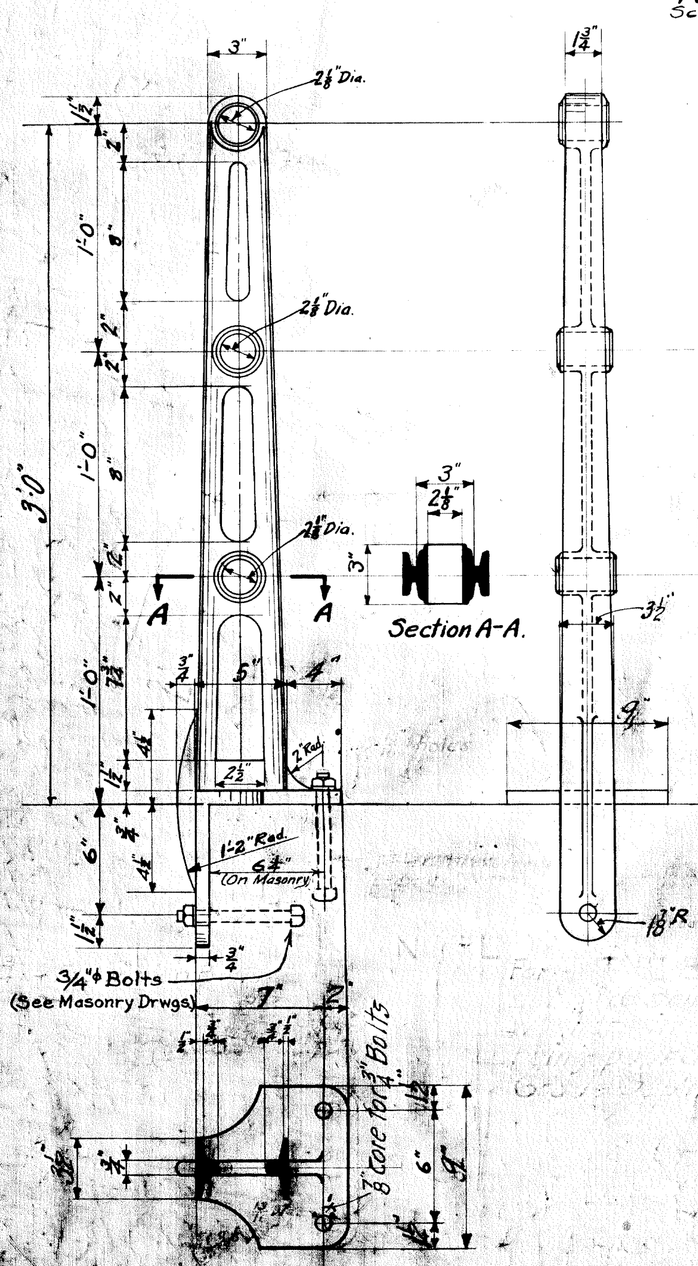


Post C.
Scale 1"=1'-0"

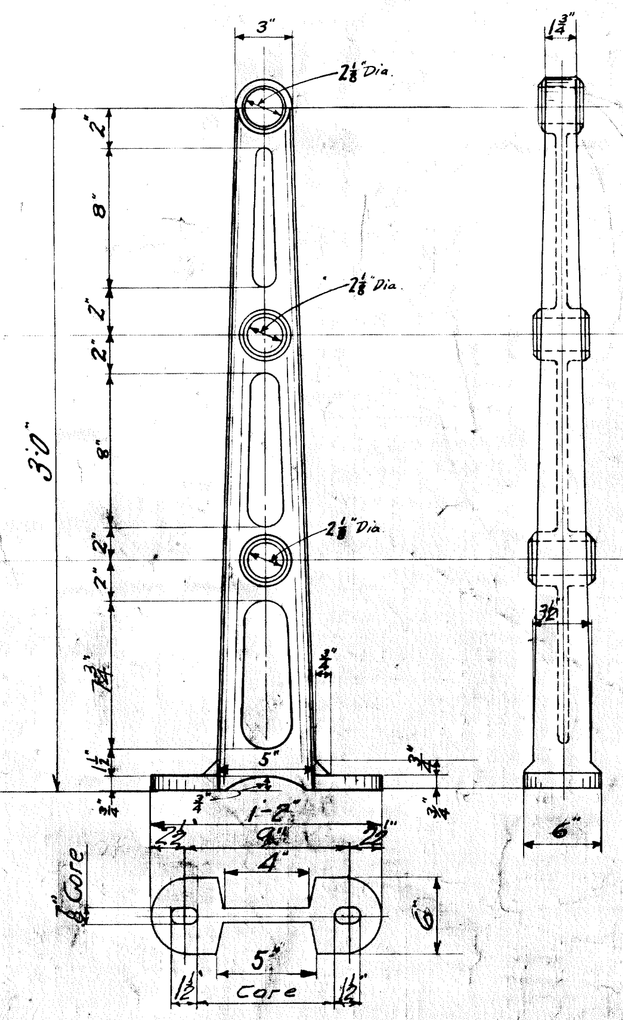


Post B-B.

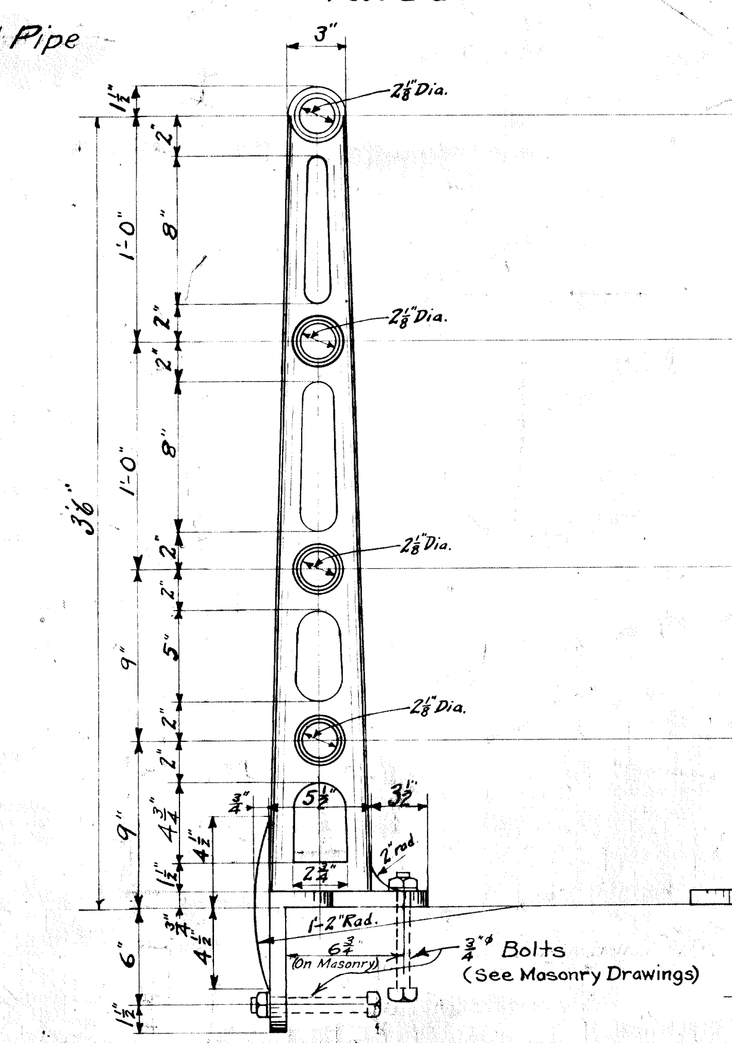
Scale 1"=1'-0"



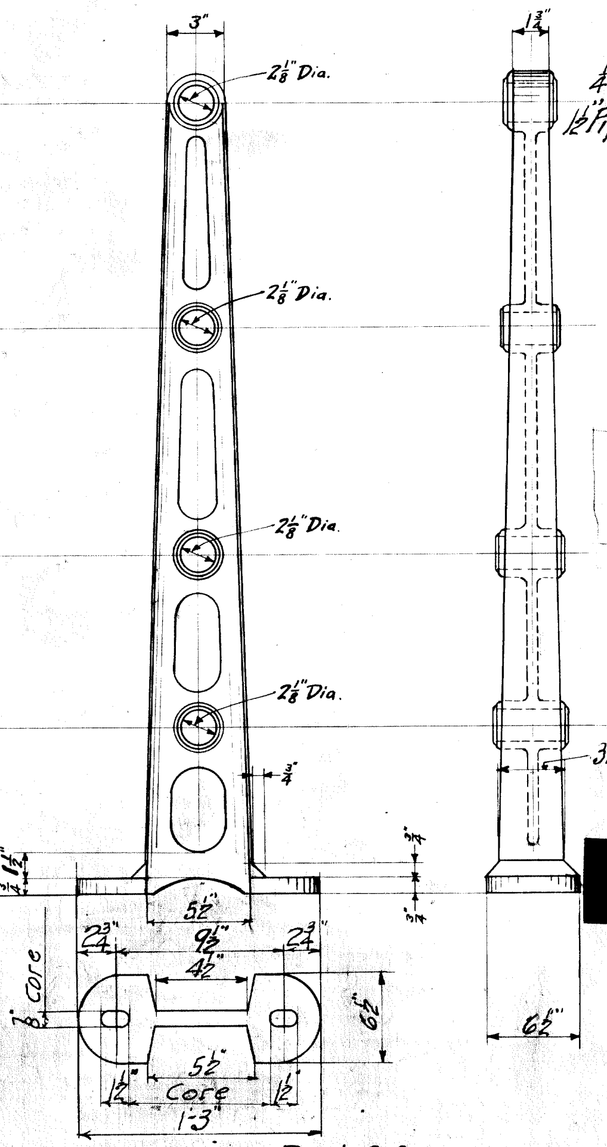
Details of 3-Pipe Post B.
For use where railing is along edge of wall.
Scale 2"=1'-0"



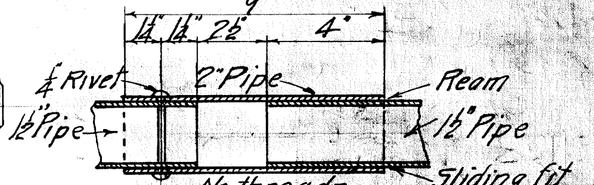
Post C.
For use where railing is not along edge of wall.
Scale 2"=1'-0"



Detail of 4-Pipe Post B-B.
For use where railing is along edge of wall.
Scale 2"=1'-0"



Post C-C.
For use where railing is not along edge of wall.
Scale 2"=1'-0"



Detail of Expansion Sleeve.
Space about 150'-0" Cts

See Supplementary Specifications

NOTES

PAINT–

Shop Paint–One coat of red lead in linseed oil.
Field Paint–First coat of Det. Graphite #501 or equal.
Second coat of Det. Graphite #508 or equal.

CASTINGS–

Cast iron posts to be of tough gray iron which shall be made by the cupola process.

All casting shall be true to pattern and not show excessive shrinkage.

They shall also be free from cracks, cold shuts, blow holes and other flaws.

Sulphur content of the finished castings shall not be more than 0.10%.

REVISIONS
Specifications for Cast Iron added 5-5-26.
Caps Added to Ends of Railing Runs 7-13-26
Note on 24" I. Bridge removed 5-19-28
Dimension for Location of Anchor Bolt added 11-20-28 G.E.P.
Cap Screws added & Anchor Bolts revised Ord. P. 5-27-38 J.L.

ISSUE NO. 6
DATE 5-11-1938

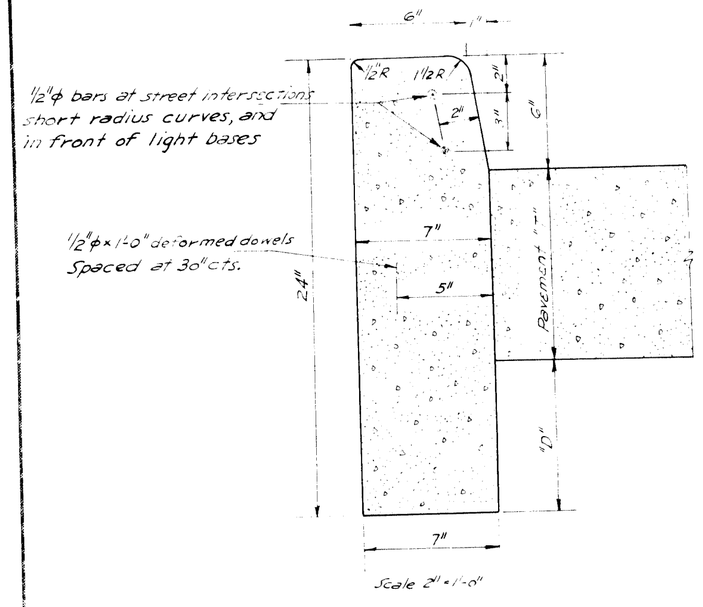
BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN
EDWARD N. HINES, CHAIRMAN
WILLIAM F. BUTLER, COMMISSIONER
JOHN S. DOUGHERTY, COMMISSIONER

STANDARD PIPE RAILING
ROAD—M[illegible]

DESIGNED BY [illegible] DRAWN BY W.D.S. CHECKED [illegible]
DATE May 1, 1926 SCALE [illegible]
CORRECT [illegible]
APPROVED [illegible]

File X U 103-42

STRAIGHT CURB



Cross Sectional Area = 1.14 sq ft

FOR STRAIGHTWAY OR LONG RADIUS CURVES

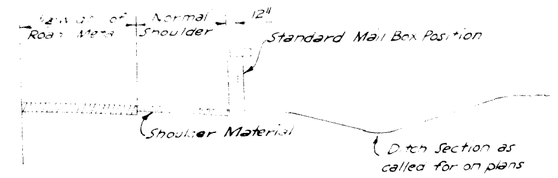
Place 1" Expansion joints in line with Expansion joints abutting pavement. Place one eighth inch (1/8") steel dividers in line with transverse weakened plane joints in abutting pavement.
Place 1/2" expansion joint back of curb where walk joins curb.

FOR STREET INTERSECTIONS OR SHORT RADIUS CURVES

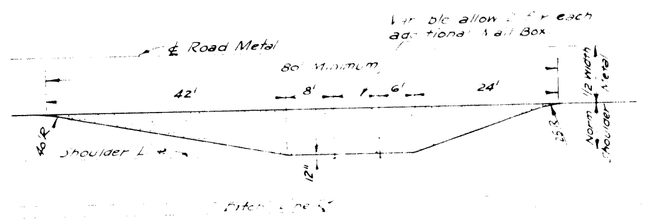
Build Curb in 6' sections. Use 1/2" expansion material at each joint.
Place 1" expansion joint back of curb, where walk joins curb.
Place 1/2" dowels in each section as shown from tangent point to tangent point. In front of light bases place 6'-1/2"ϕ reinforcing bars and 6'-1" expansion joint back of curb, to the depth of curb.

STD. PLAN C-17-2-B
DETAIL NO. 1

MAIL BOX TURNOUT



SECTION

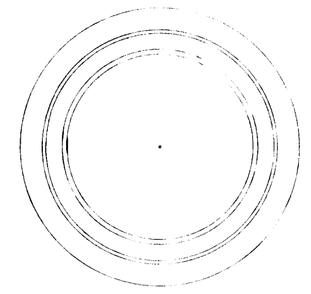


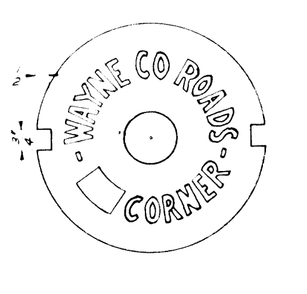
PLAN
Drawing not to scale

Standard Position for mail box, the inside face of mail box shall not be closer to road than outside edge of shoulder. Shoulder material shall be 6" in depth and of type specified on plans.
Volume of shoulder material required for single mail box equals 5 cubic yards (loose measure) approximately. 0.3 cubic yards of shoulder material required for each additional mail box, where gravel shoulder are called for on plans. Where no gravel shoulders are called for on plans the allowance is 8.6 Cu. Yds. of material, for a single mail box and 0.3 cubic yards for each additional mail box.

STD. PLAN C-17-2-B
DETAIL NO. 3

MONUMENT BOX





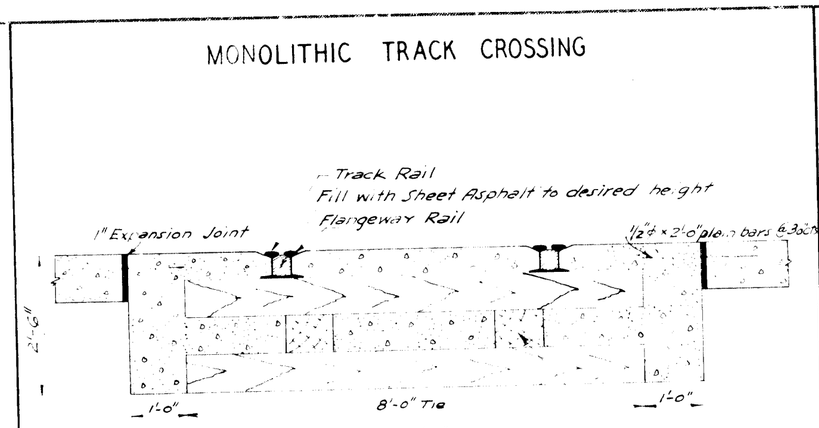
BOX DETAIL
Scale 1/4"=1'

COVER DETAIL
Scale 3"=1'

Box and Cover Castings shall be of the best quality gray iron, and shall meet the requirements of the A.S.T.M. Standard Specifications for Gray Iron Castings (Designation A-48-48).
The sliding faces of the cover and the ear for the same on the frame for the Monument Box shall be machine finished to insure efficient thereof, so that the cover will have an even bearing and its seat shall be set in mortar, free from dirt.

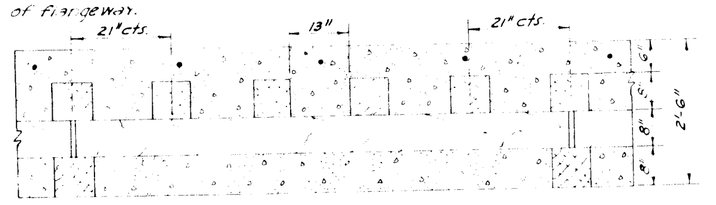
STD. PLAN C-17-2-B
DETAIL NO. 5

MONOLITHIC TRACK CROSSING

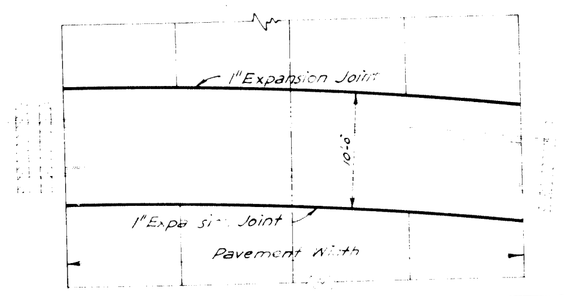


TRANSVERSE SECTION
Scale 1/2"=1'-0"
8"x 10" RR Tie

Note:-
Flangeway Rail to extend full width of Road Metal, and base to be burned off so it can be placed alongside of main rail to proper width of flangeway.



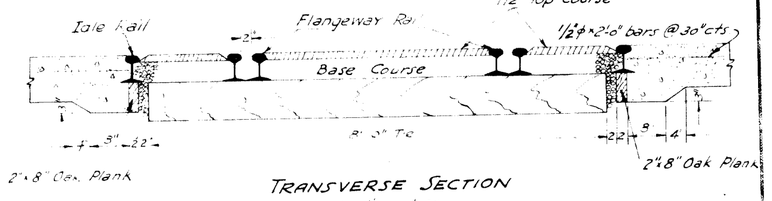
LONGITUDINAL SECTION
Scale 1/2"=1'-0"



PLAN
Scale 1"=10'-0"

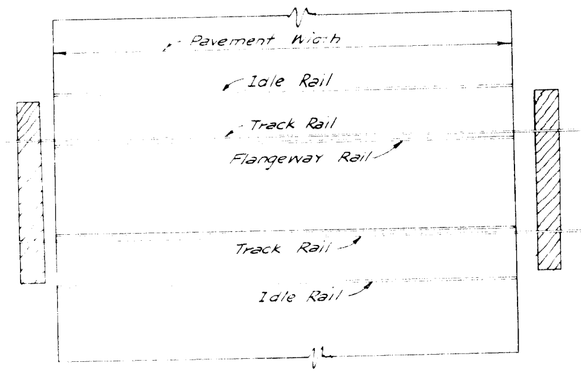
STD. PLAN C-17-2-B
DETAIL NO. 7

MACADAM TRACK CROSSING



TRANSVERSE SECTION
Scale 1/2"=1'-0"

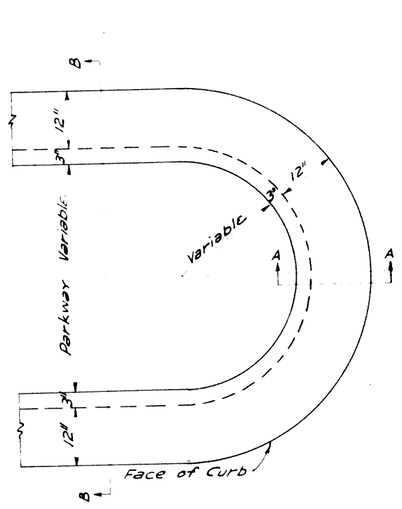
Top Course to be Bituminous Fine Mix 1 1/2" thick.
Base Course to be crushed stone or slag C-4 or C-4A to be placed between inner ties to within 1 1/2" of Top of Rail. Tamp and penetrate base course with a suitable Bituminous Material.
Flangeway Rail to extend full width of Road Metal and base to be burned off so it can be placed alongside of main rail to form proper width of flangeway. Ends of rail to be bent down or cut on bias to prevent corners at edge of roadway.
Idle Rail to extend full width of Road Metal.



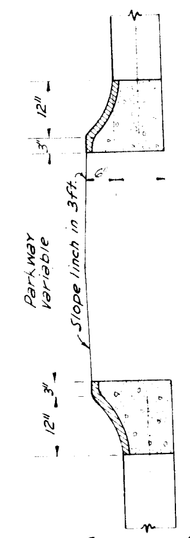
PLAN
Scale 1"=10'-0"

STD. PLAN C-17-2-B
DETAIL NO. 8

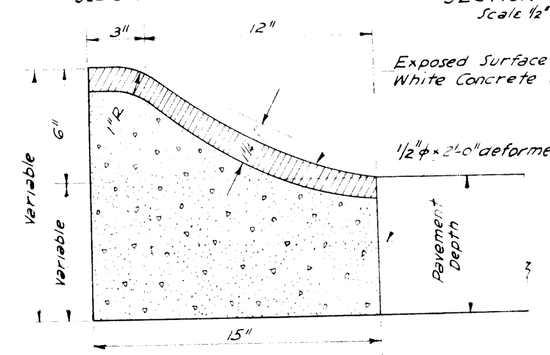
SAFETY CURB



PLAN
Scale 1/2"=1'-0"

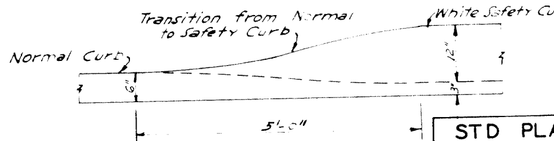


SECTION B-B
Scale 1/2"=1'-0"



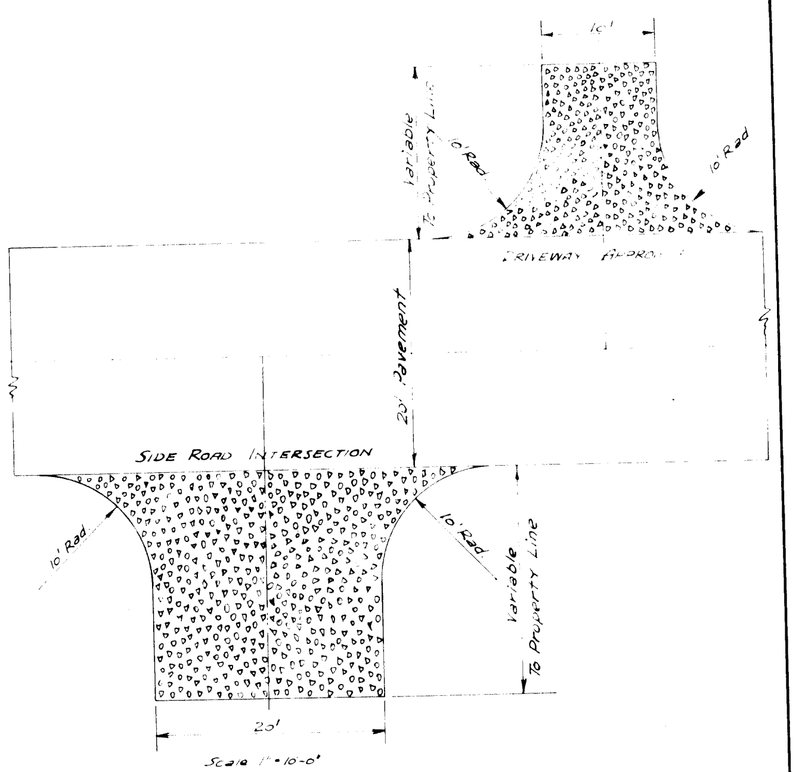
Exposed Surface to be of White Concrete and 1/2" thick.
1/2"ϕ x 2'-0" deformed dowel bars at 30" cts.

SECTION A-A
Scale 2"=1'-0"



STD. PLAN C-17-2-B
DETAIL NO. 2

STONE INTERSECTION-DRIVEWAY



Scale 1"=10'-0"

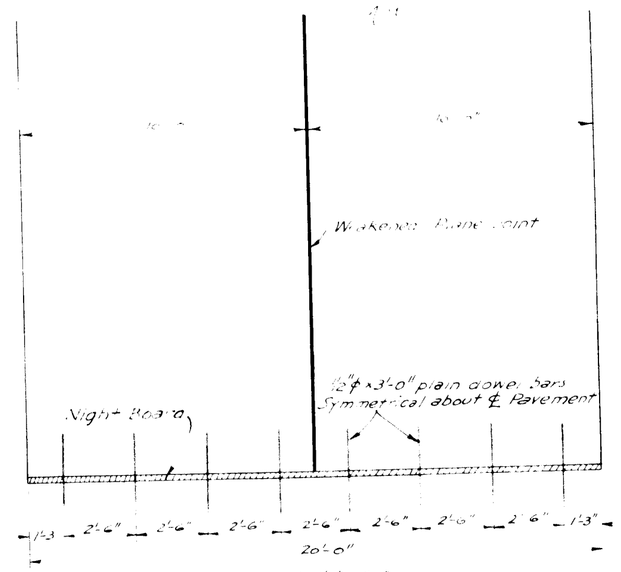
For 20' Pavement

Width of R/W	20' Roadway	10' Driveway
33'	9.3 C.Y.	5.0 C.Y.
43'	13.0 C.Y.	7.0 C.Y.
53'	16.7 C.Y.	8.8 C.Y.
60'	19.3 C.Y.	10.0 C.Y.

Stone shall be 6" Thick and of type specified on plans.
Unit price per cubic yard of stone does not include excavation of Roadway or Driveway.

STD. PLAN C-17-2-B
DETAIL NO. 4

BULKHEAD JOINT
TRANSVERSE

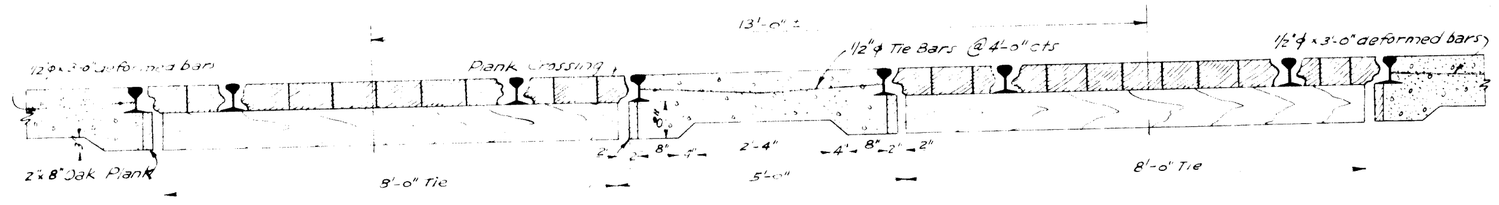


Scale 1/8"=1'-0"

Bulkhead Joint shall be used where pavement end does not come at regular transverse joint interval. Night boards shall be a 2"x 10" yellow pine plank, and shall be drilled as shown, bars shall be placed as designated in the above drawing.
This type joint shall be edged to 1/4" Radius.

STD. PLAN C-17-2-B
DETAIL NO. 6

PLANK TRACK CROSSING



TRANSVERSE SECTION
Scale 1/2"=1'-0"

Crown of Pavement to be flattened and the height of Curb to be reduced for a distance of about 25' to meet the grade of rails. Plank Crossing shall be constructed of hard Oak Planks 5" thick. Idle Rail to extend full width of Pavement not including Curb.
All bars shall be deformed.

STD. PLAN C-17-2-B
DETAIL NO. 9

REVISED		
ITEM	BY	DATE
Gen. Corr.	GLASER	10-23-40

BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN

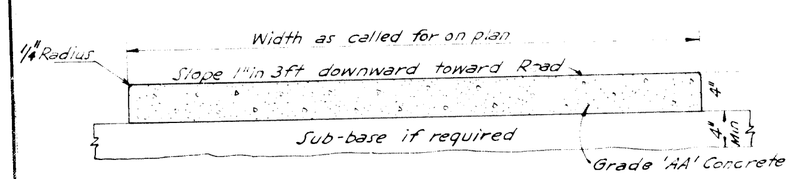
MICHAEL J. O'BRIEN, CHAIRMAN
JOHN F. BREINING, VICE-CHAIRMAN
CHARLES L. WILSON, COMMISSIONER

STANDARD PLAN

DRAWN BY GLASER SCALE As Shown DATE MAY 1940
CHECKED John R. Watson ROAD ENGINEER
APPROVED COUNTY HIGHWAY ENGINEER DEP. ENGINEER
TRANSIT NO.
LEVEL BOOK

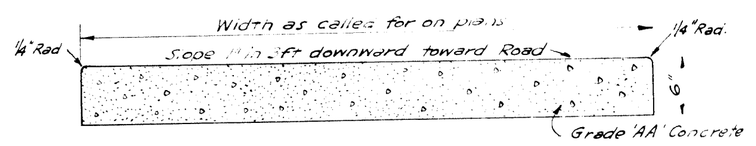
FILE C-17-2 SHEET NO. (B)

CONCRETE SIDEWALK



4" CONCRETE SIDEWALK

Sidewalk shall be laid in slabs approximately square, provided no slab shall be greater in length than 1.2 feet. sidewalk shall be scored to a depth of 3/4" at right angles to the forms. 1/2" Expansion joints shall be placed at regular intervals of 48 feet, and between abutting parallel curb and sidewalk or buildings. 1" Expansion joint material shall be placed between curb return and sidewalk approach. Sub-base where called for on plans shall be considered incidental to construction of concrete sidewalk.

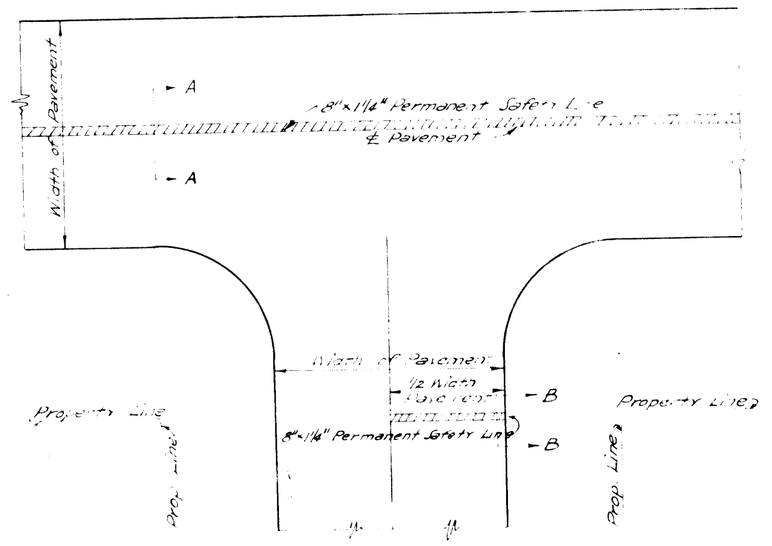


6" CONCRETE SIDEWALK
To Apply at Driveways

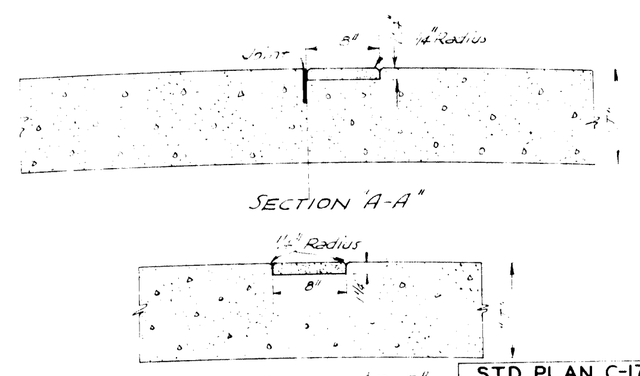
Transverse joints shall be placed as follows:
For lengths from 0' to 15', omit transverse joints.
For lengths from 15' to 30', place one transverse joint on ℄ of drive way.
For length greater than 30' place one transverse joint on ℄ of driveway and place intermediate joints at uniform intervals not greater than 10 ft.

STANDARD PLAN C-17-2-C
DETAIL NO 1

PERMANENT SAFETY LINE



PLAN



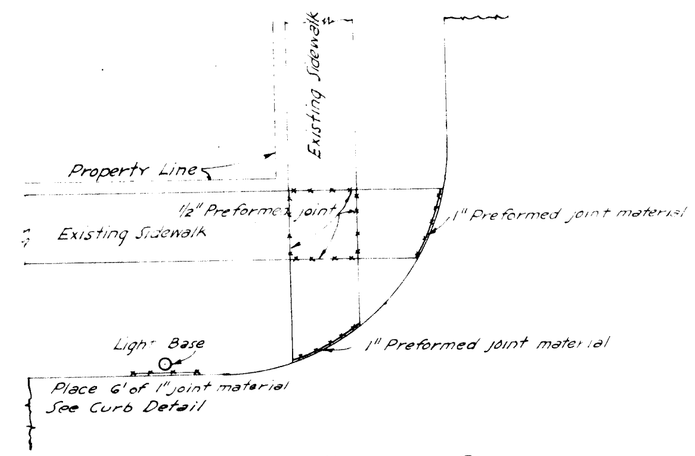
STD. PLAN C-17-2-C
DETAIL NO.3

PROJECT SIGN

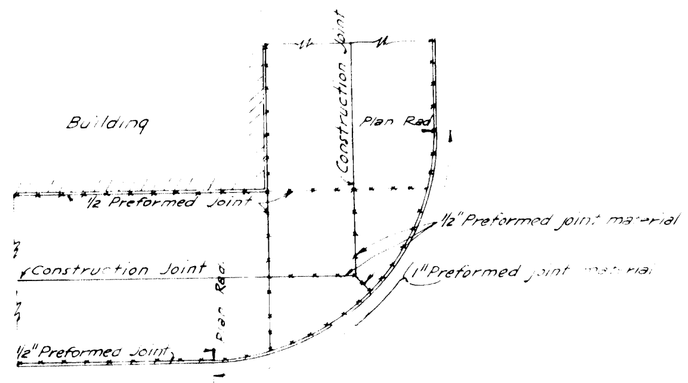
Sign shall be of 1/16" plywood material. Sign shall have 4" letters, to be in proportion to size of sign. Upright posts shall be 4"x4"x3'-0" of first quality lumber and set in ground a minimum depth of 2'-0". Posts shall be painted black.

STANDARD PLAN C-17-2-C
DETAIL NO. 5

SIDEWALK JOINTS



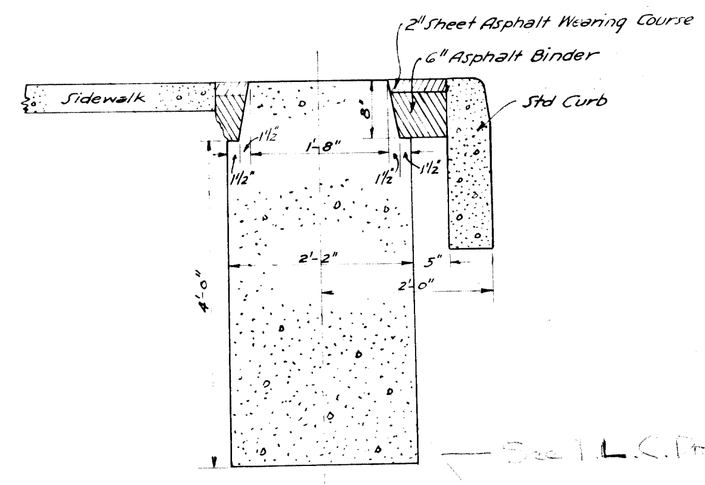
EXTENSION OF EXISTING SIDEWALK



PROPOSED SOLID SIDEWALK

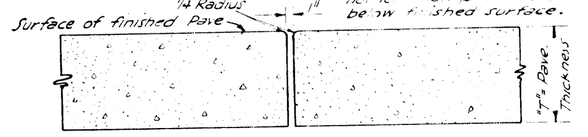
STANDARD PLAN C-17-2-C
DETAIL NO. 7

LIGHT BASE SEAL



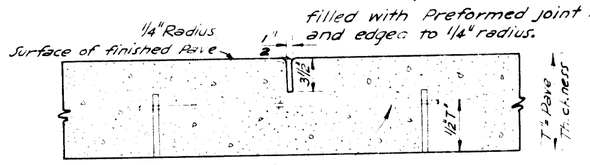
STANDARD PLAN C-17-2-C
DETAIL NO.9

TRANSVERSE JOINTS



Joint shall be formed during placing of concrete by means of a metal installing bar against which the preformed filler with an approved metal cap shaped to finished crown of pavement and of a design to prevent warping or twisting out of shape, shall be placed before concrete is poured.

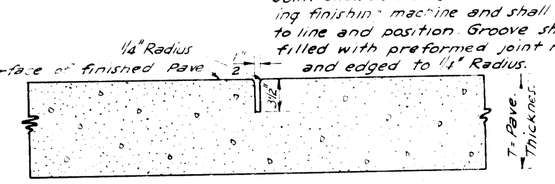
TRANSVERSE EXPANSION JOINT



Joint shall be formed immediately following finishing machine and shall be true to line and position. Groove shall be filled with Preformed joint material and edges to 1/4" radius.

1/2"ϕ x 3'-0" plain bars shall be placed at a height of 1/2 the thickness of pavement spaced at 30" intervals and supported by Tie Bar Chairs at each end of bar as shown.

TRANSVERSE WEAKENED PLANE JOINT WITH TIE BARS

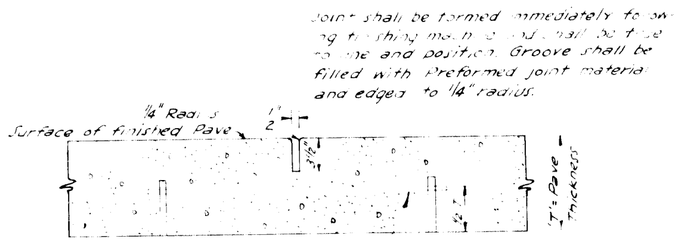


Joint shall be formed immediately following finishing machine and shall be true to line and position. Groove shall be filled with preformed joint material and edged to 1/4" Radius.

TRANSVERSE WEAKENED PLANE JOINT WITHOUT TIE BARS

STANDARD PLAN C-17-2-C
DETAIL NO. 2

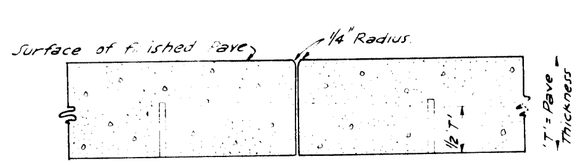
LONGITUDINAL JOINTS



Joint shall be formed immediately following finishing machine and shall not be true to line and position. Groove shall be filled with Preformed joint material and edges to 1/4" radius.

1/2"ϕ x 3'-0" deformed bars shall be placed at a height of 1/2 the thickness of pavement spaced at 30" intervals and supported by Tie Bar Chairs at each end of bar as shown.

LONGITUDINAL WEAKENED PLANE JOINT WITH TIE BARS

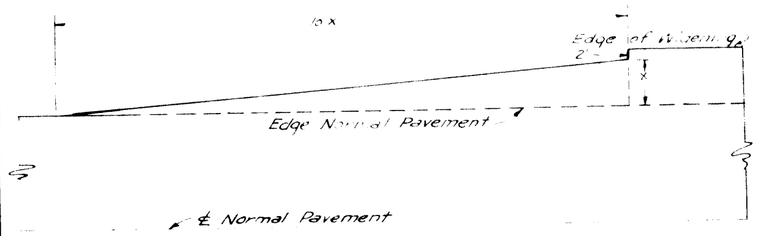


1/2"ϕ x 3'-0" plain bars shall be placed at a height of 1/2 the thickness of pavement, inserted thru hole, provided in side rail, every 30 cts. Welding of bar will not be permitted.

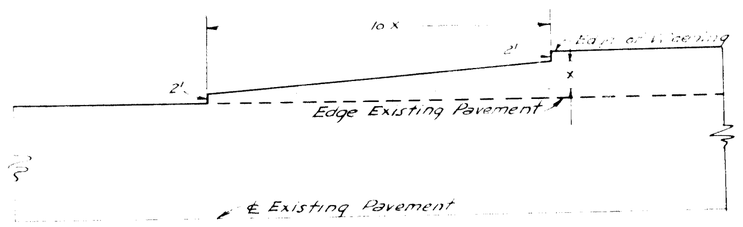
LONGITUDINAL BULKHEAD JOINT WITH TIE BARS

STANDARD PLAN C-17-2-C
DETAIL NO. 4

10 X PAVEMENT TRANSITION



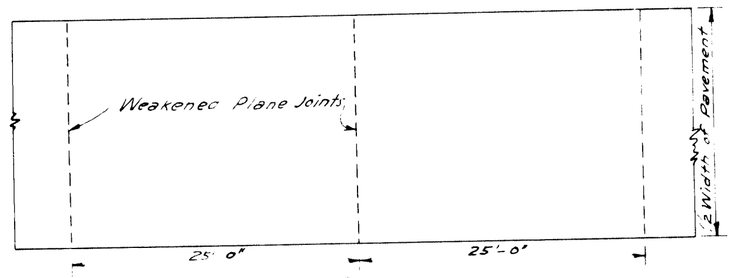
This type transition shall be used where Pavement is increased or decreased in width. "X" being the amount of increase or decrease.

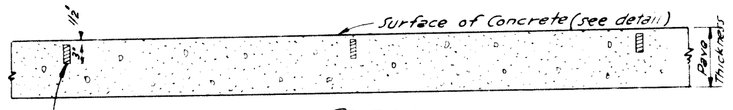


This type transition shall be used where Existing Pavement is increased or decreased in width

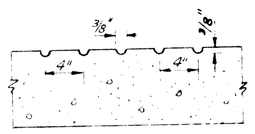
STANDARD PLAN C-17-2-C
DETAIL NO. 6

CONCRETE BASE COURSE





Weakened Plane Joints shall be a thin board (soft wood) 3" deep, placed 1/2" below surface of concrete. The board shall be of sufficient thickness and stiffness to remain in a straight line when placed vertically in concrete at right angles to edge of base course.

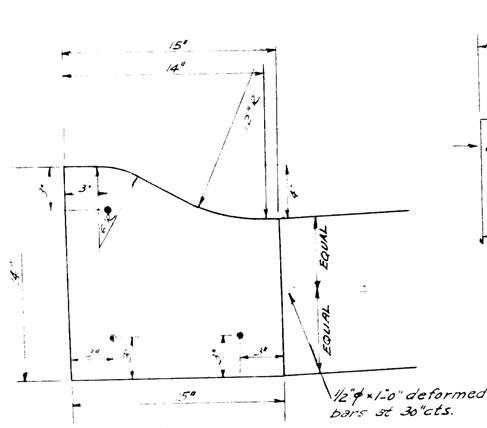


SURFACE DETAIL

Note - Where Brick surfacing is used the 3/8" grooves in the Base Course are omitted

STANDARD PLAN C-17-2-C
DETAIL NO. 8

ROLL CURB



DETAIL OF ROLL FACE
Scale 1/2"=1'-0"

1/2"ϕ Bars Top Bar continuous back of Drainage Castings

Scale 1/2"=1'-0"

STANDARD PLAN C-17-2-C
DETAIL NO. 10

REVISED		
ITEM	BY	DATE
Gen. Corr. Detail #'s	Glaser Glaser	10-23-40 1-27-41

BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN

JOHN F. BREINING, CHAIRMAN — CHARLES L. WILSON, VICE-CHAIRMAN
MICHAEL J. O'BRIEN, COMMISSIONER

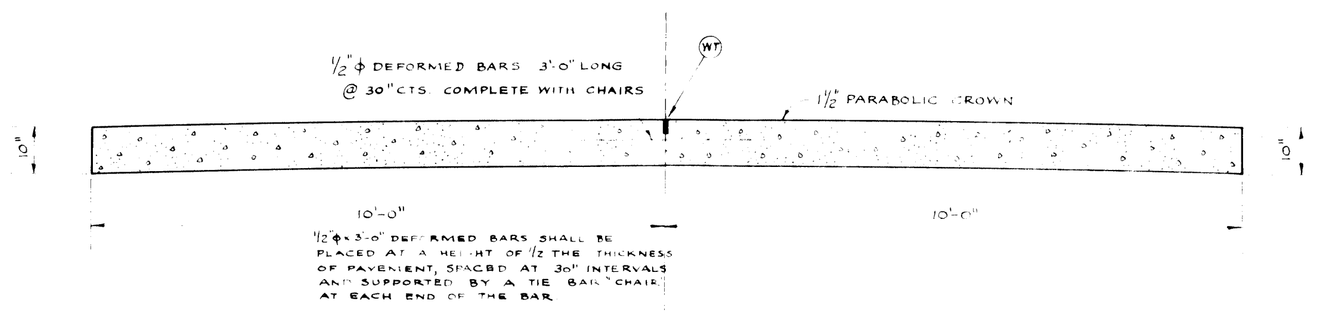
STANDARD PLAN

DRAWN BY Glaser — SCALE 1/2" shown — DATE May 1940.
CORRECT John K. Norton, ROAD ENGINEER — REG. ENGINEER — TRANSIT BOOK
APPROVED ____, COUNTY HIGHWAY ENGINEER — REG. ENGINEER — LEVEL BOOK

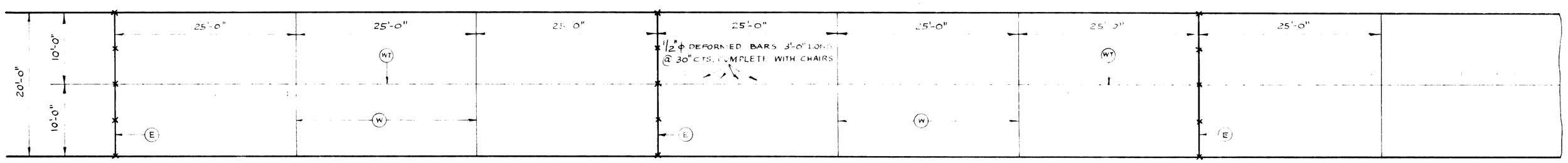
FILE C-17-2 — SHEET NO. (C)

RE-BLOCK 1205 00 1909 KOMBERG BRT

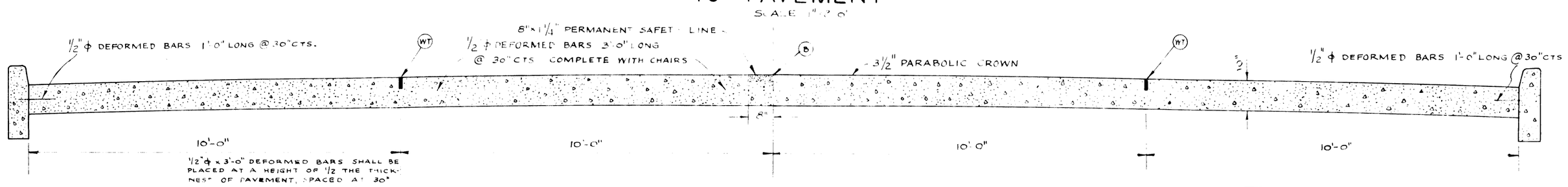
CROSS SECTION
20' PAVEMENT
SCALE 1"=2'-0"



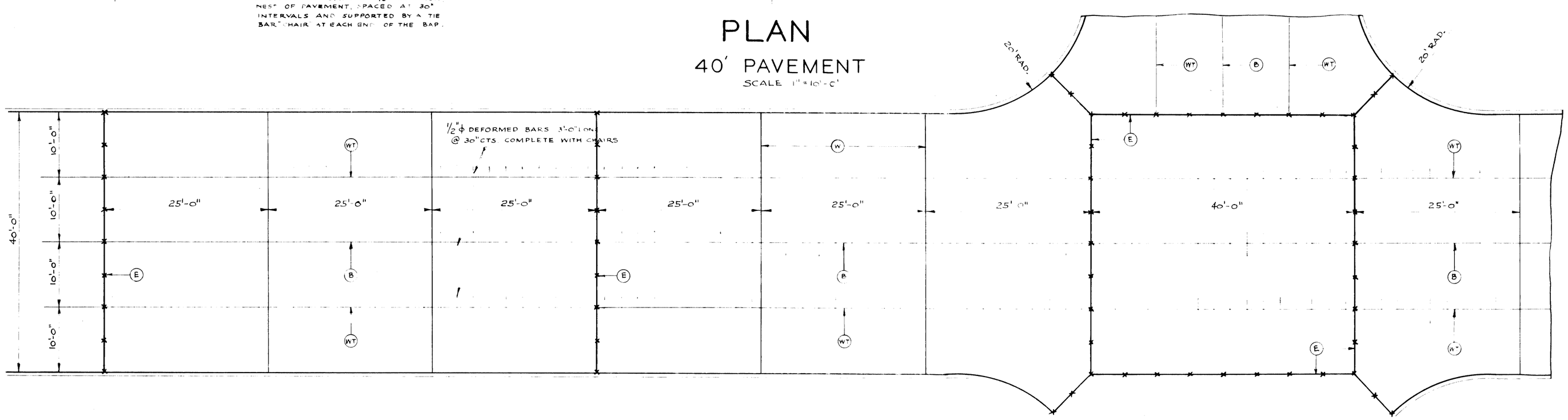
PLAN
20' PAVEMENT
SCALE 1"=10'-0"



CROSS SECTION
40' PAVEMENT
SCALE 1"=2'-0"



PLAN
40' PAVEMENT
SCALE 1"=10'-0"



JOINT LEGEND

- (B) Longitudinal Butt Joint with 1/2" ϕ deformed bars 3'-0" long @ 30" cts. complete with chairs
- (E) 1" Transverse Expansion Joint.
- (W) Weakened Plane Joint
- (W") Weakened Plane Joint with 1/2" ϕ deformed bars 3'-0" long @ 30" cts. complete with chairs.

"W" Joint Filler Material shall be 1/2" wide and 3 1/2" deep.

REVISED		
ITEM	BY	DATE

BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN

CHAIRMAN — VICE-CHAIRMAN

COMMISSIONER

JOINT DETAILS

DRAWN BY P.J.G. SCALE AS SHOWN DATE 2/27/40

CORRECT ROAD ENGINEER P.E. ENGINEER

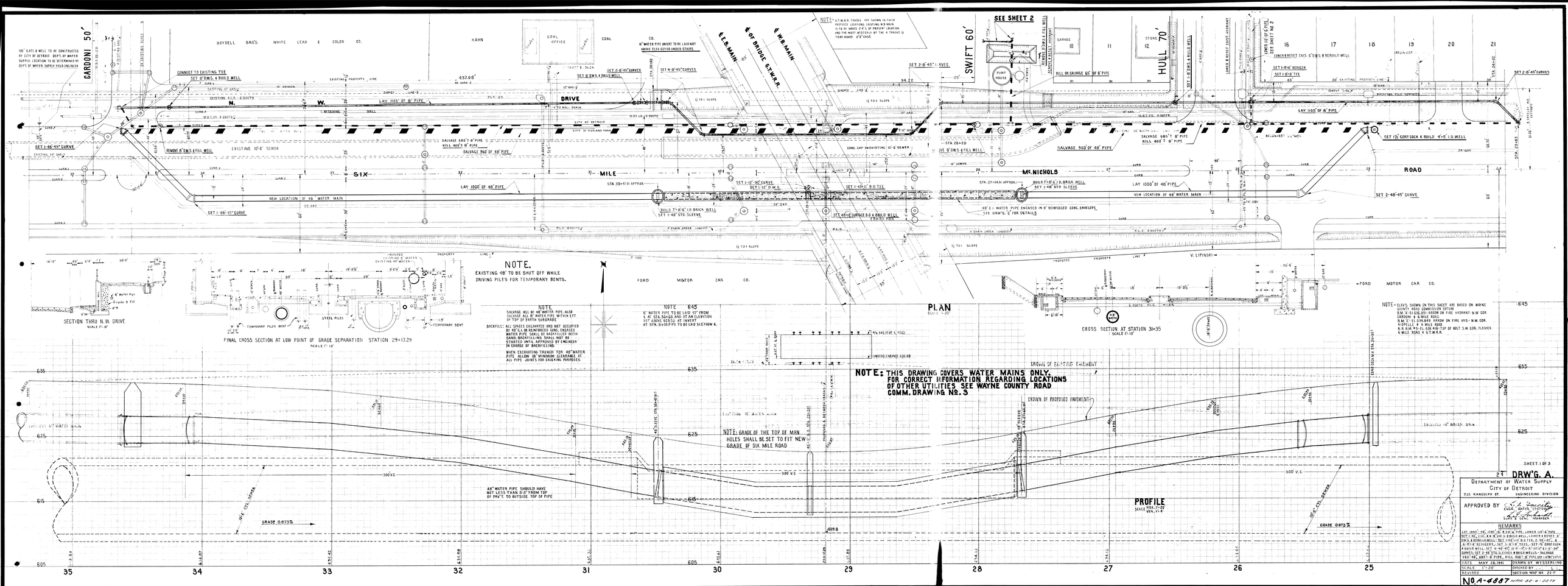
APPROVED COUNTY HIGHWAY ENGINEER REG. ENGINEER

TRANSIT BOOK

LEVEL BOOK

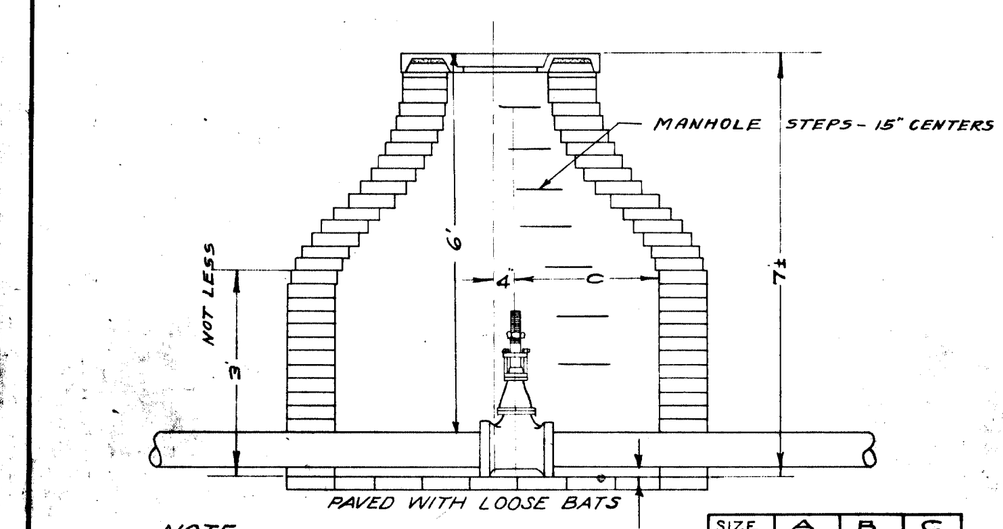
FILE

SHEET NO. (D)


SEE SHEET 2
CARDONI 50'
SWIFT 60'
HULL 70'
SIX MILE ROAD
McNICHOLS ROAD
E.B. MAIN
W.B. MAIN
OF BRIDGE G.T.M.R.R.
BOYDELL BROS. WHITE LEAD & COLOR CO.
KAHN
COAL OFFICE
COAL CO.
FORD MOTOR CAR CO.
V. LIPINSKI
PUMP HOUSE
GARAGE
STORE
LAY 1105' OF 8" PIPE
LAY 1000' OF 48" PIPE
NEW LOCATION OF 48" WATER MAIN
SALVAGE 685' 8" PIPE
KILL 400' 8" PIPE
SALVAGE 960' OF 48" PIPE
SET 2-48-45° CURVE
SET 1-48-45° CURVE
SET 1-48-90° CURVE
SET 1-48" STD. SLEEVE
SET 1-48" B.O. TEE
SET 1-48" STD. SLEEVE
SET 1½" GORP COCK & BUILD 4'-5" I.D. WELL
SET 2-8-45° CURVES
SET 1-8-6" REDUCER
SET 1-8-0" TEE
SET 8 DWS. & REBUILD WELL
REMOVE 8 DWS. & FILL WELL
BUILD 7'-8"-6" I.D. BRICK WELL
SET 1-48" STD. SLEEVE
SET 48" GATE & B.O. & BUILD WELL
TRAFFIC PIER
CONNECT TO EXISTING TEE
SET 8 DWS. & BUILD WELL
48" GATE & WELL TO BE CONSTRUCTED BY CITY OF DETROIT DEPT. OF WATER SUPPLY. LOCATION TO BE DETERMINED BY DEPT. OF WATER SUPPLY FIELD ENGINEER
NOTE: G.T.M.R.R. TRACKS ARE SHOWN IN THEIR PROPOSED LOCATIONS. EXISTING MAIN TRACK IS TO BE MOVED 2'-6" FROM PRESENT LOCATION AND THE MAIN WESTERLY OF THE 4 TRACKS IS TO BE MOVED 5'-0" EASE.
NOTE. EXISTING 48" TO BE SHUT OFF WHILE DRIVING PILES FOR TEMPORARY BENTS.
NOTE SALVAGE ALL OF 48" WATER PIPE. ALSO SALVAGE ALL 8" WATER PIPE WITHIN 5 FT. OF TOP OF EARTH SUBGRADE
BACKFILL: ALL SPACES EXCAVATED AND NOT OCCUPIED BY 48" C.I. OR REINFORCED CONC. ENCASED WATER PIPE SHALL BE BACKFILLED WITH SAND. BACKFILLING SHALL NOT BE STARTED UNTIL APPROVED BY ENGINEER IN CHARGE OF BACKFILLING.
WHEN EXCAVATING TRENCH FOR 48" WATER PIPE ALLOW 18" MINIMUM CLEARANCE AT ALL PIPE JOINTS FOR CAULKING PURPOSES.
NOTE 645
8" WATER PIPE TO BE LAID 57' FROM ℄ AT STA. 30+80 AND AT AN ELEVATION 107' ABOVE DATUM AT INVERT.
AT STA. 31+35 PIPE TO BE LAID 5'-5" FROM ℄.
SECTION THRU N.W. DRIVE
SCALE 1"=10'
FINAL CROSS SECTION AT LOW POINT OF GRADE SEPARATION STATION 29+17.29
SCALE 1"=10'
PLAN
SCALE 1"=20'
CROSS SECTION AT STATION 31+35
SCALE 1"=10'
NOTE: THIS DRAWING COVERS WATER MAINS ONLY. FOR CORRECT INFORMATION REGARDING LOCATIONS OF OTHER UTILITIES SEE WAYNE COUNTY ROAD COMM. DRAWING NO. 3
NOTE: GRADE OF THE TOP OF MAN HOLES SHALL BE SET TO FIT NEW GRADE OF SIX MILE ROAD
PROFILE
SCALE HOR. 1"=20 VER. 1"=4
NOTE: ELEV'S. SHOWN ON THIS SHEET ARE BASED ON WAYNE COUNTY ROAD COMMISSION DATUM. B.M. 'A' EL. 656.05 ARROW ON FIRE HYDRANT N.W. COR. CARDONI & 6 MILE ROAD.
B.M. 'E' EL. 654.849 ARROW ON FIRE HYD. N.W. COR. RIOPELLE & 6 MILE ROAD
B.M. B.M. 'F' EL. 658.46 TOP OF BOLT S.W. COR. FLASHER 6 MILE ROAD & G.T.M.R.R.
SHEET 1 OF 3
DRW'G. A.
DEPARTMENT OF WATER SUPPLY
CITY OF DETROIT
735 RANDOLPH ST. ENGINEERING DIVISION
APPROVED BY
ENGR. WATER DISTRIBUTION
SUPT. WARREN
REMARKS
LAY 1000'-48", 1105'-8", & 8-8" & 4-6" PIPE. LOWER 16" & 18" PIPE. SET 1-48", 1-16", 4-8" & 3-6" & REBUILD WELL. LOWER & REPOT 8" DWS. & REBUILD WELL. SET 1-16"-12" B.O. TEE, 2-48"-45°, & 6-8"-6" REDUCERS. SET 1-12"-6" TEE, SET 1-6" GORP COCK & BUILD WELL. SET 4-48-45°, 10 8"-6"-30°, & 1-6"-90° CURVES. SET 2-48" STD. SLEEVES & REBUILD WELL. SALVAGE 960'-48", 685' 8" PIPE, KILL 400' 8" PIPE. SEE 16" SPEC.
DATE MAY 28, 1954 DRAWN BY WESSENLING
SCALE 1"=20' CHECKED BY
REVISED SECTION MAP NO. 21 P
NO. A-4887 WAR 12-4-2270

STANDARD —— GATE WELL DIMENSIONS

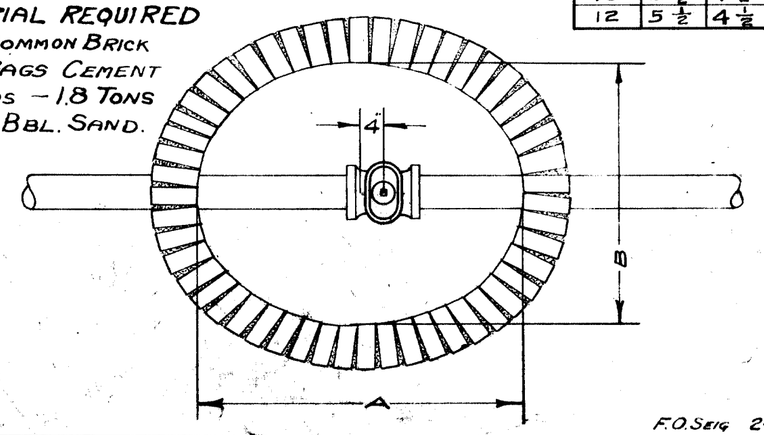
DEPARTMENT OF WATER SUPPLY
CITY OF DETROIT



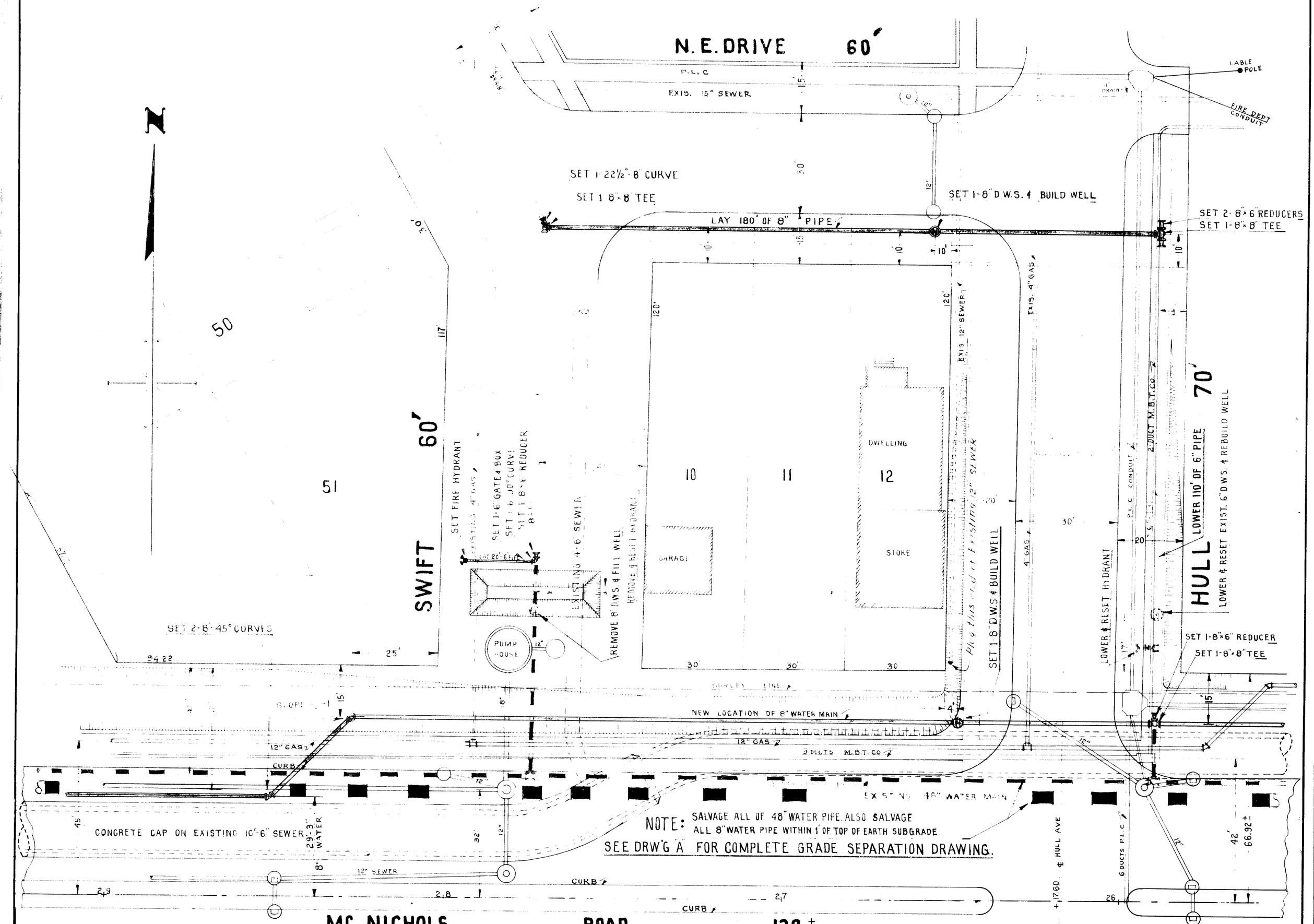
NOTE
OUTSIDE OF GATE WELL TO BE PLASTERED WITH MORTAR

SIZE	A	B	C
6	5	4	2'2"
8	5	4	2'2"
10	5½	4½	2'5"
12	5½	4½	2'5"

MATERIAL REQUIRED
1100 COMMON BRICK
10 BAGS CEMENT
1½ YDS - 1.8 TONS
OR 9 BBL. SAND.



F.O.Sec 2-20-26



DEPARTMENT OF WATER SUPPLY
CITY OF DETROIT
735 RANDOLPH ST. ENGINEERING DIVISION

APPROVED BY _____
ENGR. WATER SYSTEMS

_____
SUPT. & GENL. MANAGER

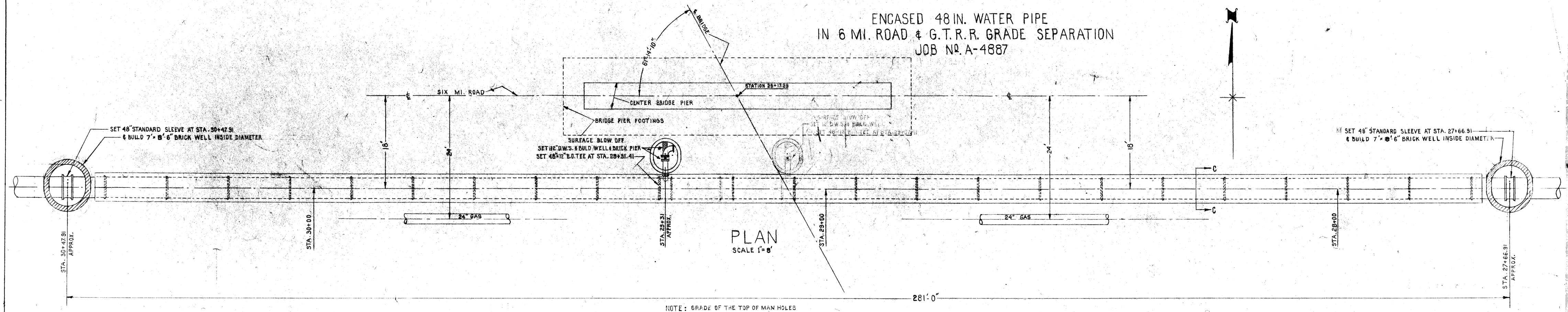
REMARKS

SEE DRW'G. "A"
SHEET 2 OF 3

DATE DEC. 20, 1940	DRAWN BY WESSERLING
SCALE 1" = 20'	CHECKED BY
REVISED	SECTION MAP No. 20-Q

No. A-4887 W.P.A. 82-4-2270

ENCASED 48 IN. WATER PIPE IN 6 MI. ROAD & G.T.R.R. GRADE SEPARATION
JOB NO. A-4887

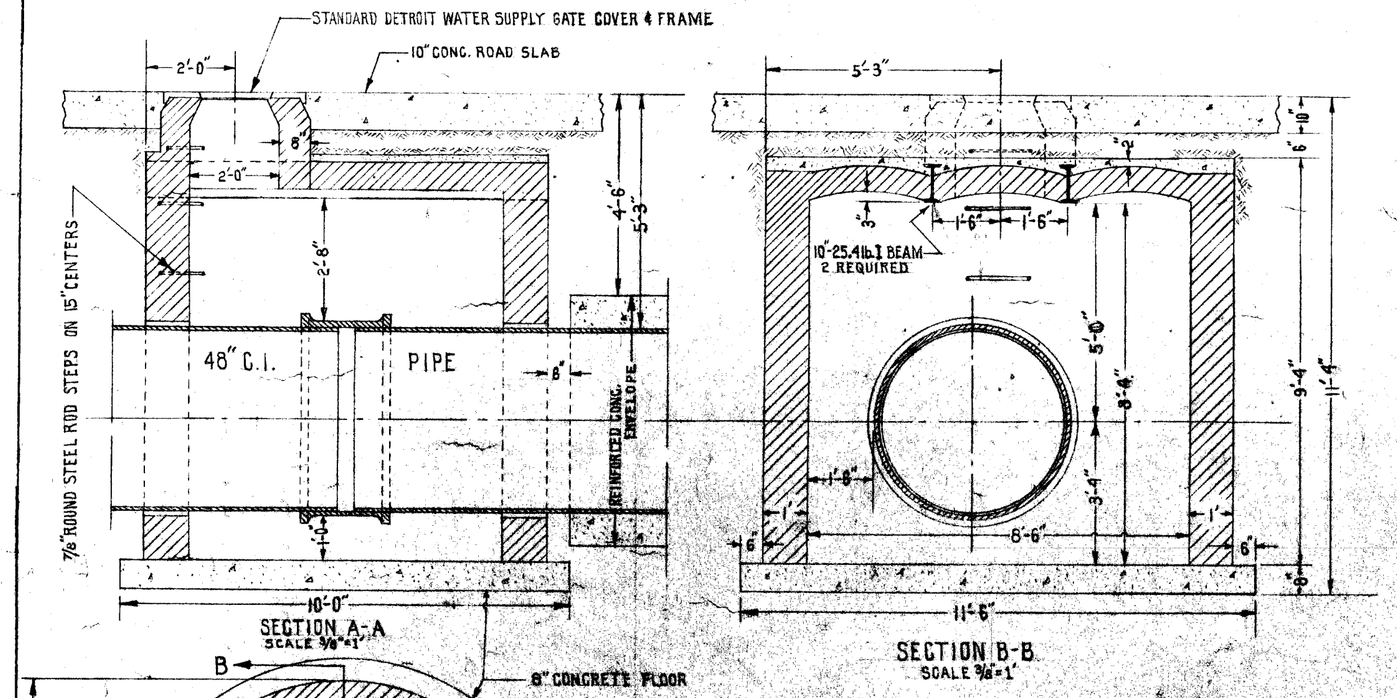


PLAN
SCALE 1"=8'

NOTE: GRADE OF THE TOP OF MAN HOLES SHALL BE SET TO FIT NEW GRADE OF SIX MILE ROAD

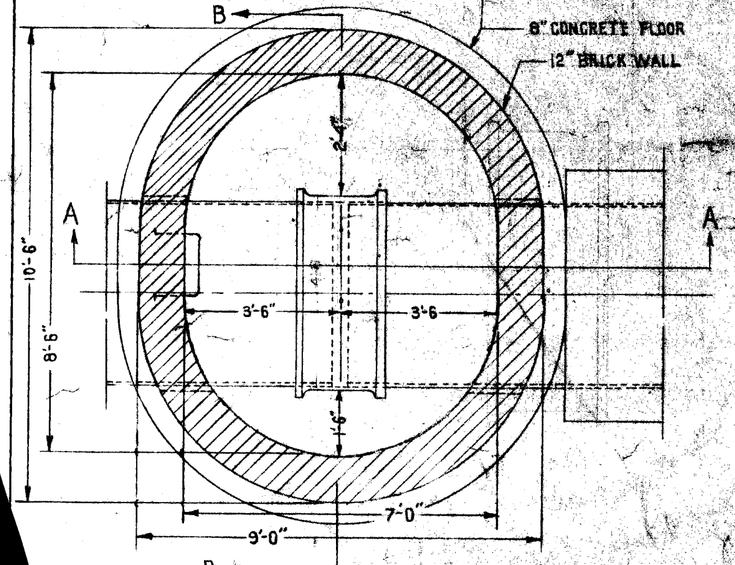
BACKFILL: ALL SPACES EXCAVATED AND NOT OCCUPIED BY 48" C.I. OR REINFORCED CONCRETE ENCASED WATER PIPE SHALL BE BACKFILLED WITH SAND. BACKFILLING SHALL NOT BE STARTED UNTIL APPROVED BY ENGINEER IN CHARGE OF BACKFILLING.

WHEN EXCAVATING TRENCH FOR 48" WATER PIPE ALLOW 15" MINIMUM CLEARANCE AT ALL PIPE JOINTS FOR CAULKING PURPOSES



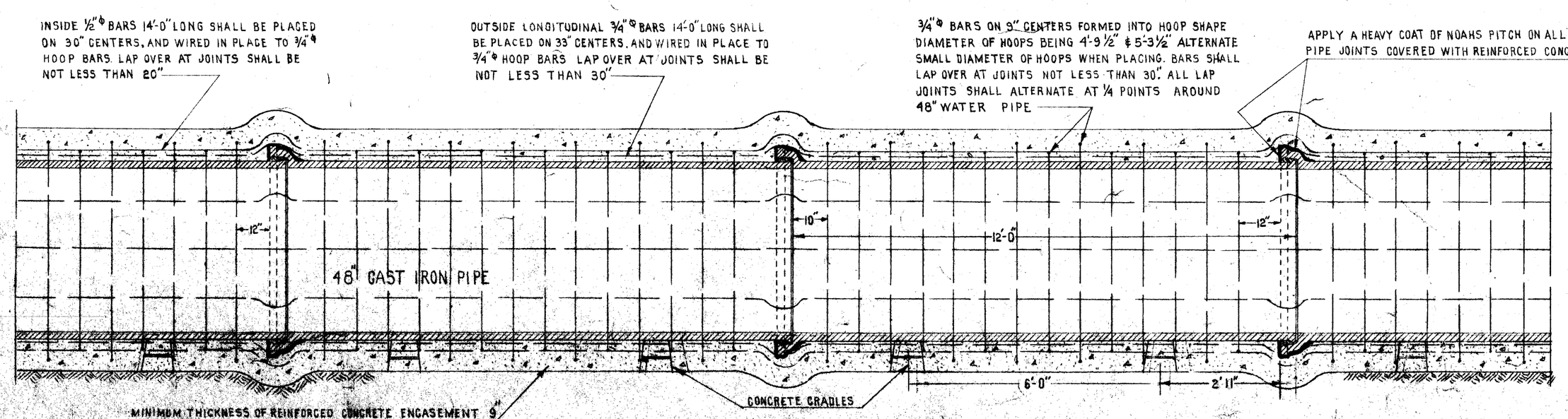
SECTION A-A
SCALE ⅜"=1'

SECTION B-B
SCALE ⅜"=1'

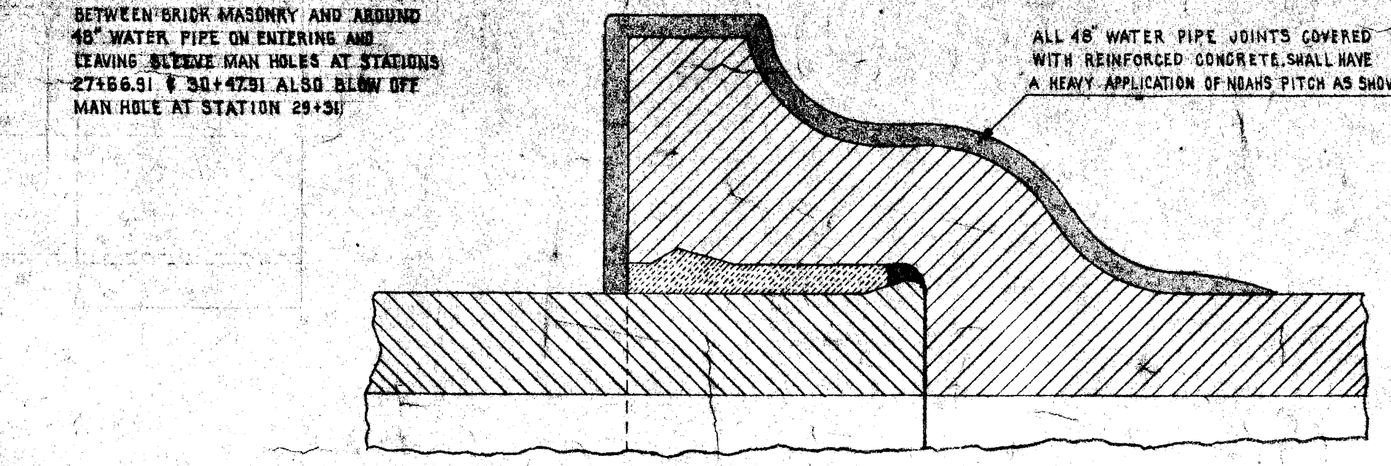


SECTION CUT JUST BELOW ROOF SLAB
SCALE ⅜"=1'

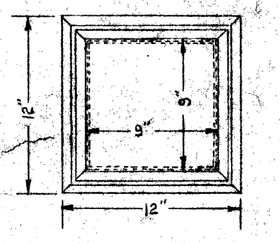
NOTE CLEARANCE OF 1½" SHALL BE MAINTAINED BETWEEN BRICK MASONRY AND AROUND 48" WATER PIPE ON ENTERING AND LEAVING SLEEVE MAN HOLES AT STATIONS 27+66.91 & 30+47.91 ALSO BLOW OFF MAN HOLE AT STATION 29+31

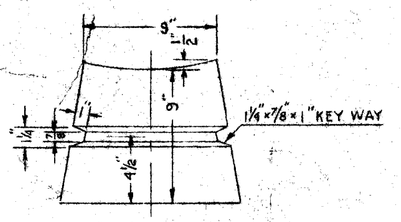


TYPICAL LONGITUDINAL SECTION
SCALE ½"=1'



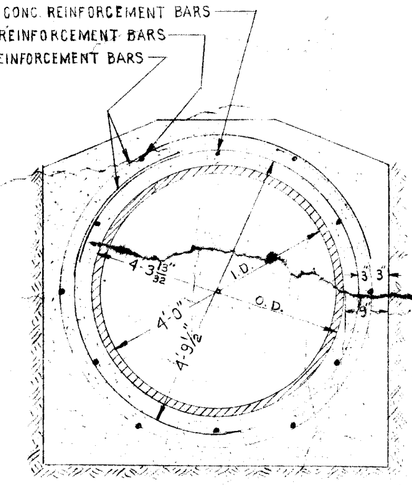
48" C.I. WATER PIPE JOINT SECTION
SCALE HALF SIZE





CONCRETE CRADLE
SCALE 1½"=1'

NO CONCRETE ENGASEMENT, FOR THE 48 INCH WATER MAIN WILL BE GRADE 'B' CONCRETE IN ACCORDANCE WITH ROAD COMMISSIONER'S STANDARD SPECIFICATIONS.



SECTION C-C
SCALE ½"=1'

DRW'G. C.
SHEET 3 OF 3

DEPARTMENT OF WATER SUPPLY
CITY OF DETROIT
735 RANDOLPH ST. ENGINEERING DIVISION

APPROVED: L. V. Berry
CHIEF OF WATER SYSTEM
L. Sinkett
SUPT. & GEN. MANAGER

DATE MAY 16, 1941	DRAWN BY WESSERLING
SCALE SEE DRW'G.	CHECKED BY C.W.S.
REVISED	SECTION MAP 21-P.

STATE OF MICHIGAN — LAWRENCE S. LEONARD — CIVIL ENGINEER — No. 3111 — REGISTERED PROFESSIONAL ENGINEER

N

SIX MILE ROAD

OAKLAND

CAMERON

HAWTHORNE

CARDONI

G. T. W. R. R.

CHURCH

HULL

GREELEY

RIOPELLE

ORLEANS

MARX

DEQUINDRE

P. O. D. R. R.

CONN. FOR REPLACE OLD TY WITH NEW TYPE "B" AND CONNECTION TO CONNECT NEW CABLES E TO ALL CABLES W.

M.H. #3577

M.H. #3578

M.H. #3579

M.H. #3580

M.H. #3581

M.H. #3582

M.H. #3583

M.H. #3584

M.H. #3585

M.H. #3586

M.H. #3587

M.H. #3588

M.H. #4444

SET ROOF TO GRADE

DUCT SECTION WEST OF D.F.D. FEEDER #743 — 8 CDR. #7 — 8 CDR. #6

CABLES TO BE KEPT ON PRESENT SIDES OF RUN. IN M.H. #3580 THE JOINTS ARE TO BE MADE AT THE ELEVATION OF THE DUCTS GOING WEST ON THE WALLS NEAREST THESE DUCTS.

ONE PARKWAY CABLE TO ENTER M.H. AND CONNECT TO L.C. CABLE THROUGH DUCT

P.L.C. DUCT TO BE ABANDONED

OLD M.H. TO BE ABANDONED

3" DUCTS

CABLES:
FDR #743
8 CDR. #6 & #7
D.F.D. SIGNAL
& 1-L.C. LIGHTING CIRCUIT CABLE

TO BE CUT UP TO D.E.CO. CABLE

D.E. CO. WILL CONSTRUCT NEW PARKWAY LOOP TO PRESENT UNDERGROUND CABLE

2 PARKWAY LIGHTING CABLES BACK OF CURB AND [illegible] AT CROSSINGS

ALTERNATE CABLES CUT INTO LIGHTING STANDARDS

FDR. #743 N.

8 CDR. #6 CABLE POLE
ALL TO BE LOCATED AS SHOWN

D.F.D. CABLE POLE
19.1 Cu. Ft. CONCRETE
30' 35'

CABLE 8 CDR. #6 FDR. #743 D.F.D. SIGNAL

DUCTS AND M.H. TO BE ABANDONED

4-3" DUCT

BUILD NEW DUCT AT NEW GRADE

CABLE 8 CDR. #7E

ON PARKWAY CABLE BACK OF CURB ON EACH SIDE, IN DUCT AT CROSSINGS, AND CUT INTO EACH LIGHTING STANDARD.

7-3" DUCTS

TEMP. OVERHEAD WIRE BY P.L.C.

TEMP. CABLE POLE

TEMP. L.O.H. WIRE

CABLE FDR #743 8 CDR #6 & #7 D.F.D. SIGNAL

END OF PARKWAY CABLE FROM WEST LEFT OUT OF STANDARD IN BOX

LIGHTING CIRCUIT DETAIL

2" DUCT ACROSS R.R.

DETAIL X

TEMP. CABLE POLE

END OF PARKWAY CIRCUIT [illegible] ON FOUNDATION TEMP. CONNECTED ON MAST ARM

TEMP. L.O.H. WIRE BY P.L.C.

LIGHTS ON N. SIDE NOT CONNECTED TEMP.

PARKWAY CABLE FOR LIGHTS ON S. SIDE E. & W. OF DEQUINDRE

PLAN

EXTEND 2½" GALV. PIPE, 15 FT. UP POLE. USE 3" TO 2½" OFFSET REDUCER AT BOTTOM. REAM THREADS OF 3" END. FINISH WITH CONCRETE.

STD. 4" FIBER COUPLING FOR POCKET FORM

2-3" DUCTS

CABLE POLE CONNECTIONS ALLEY N. OF 6 MILE, E. OF HULL

TYPICAL DUCT SECTION

6-DUCT

7-DUCT

- PROPOSED 2'x2'x4' FOUNDATION, WITH 10,000 LUMEN F.Bld FIXTURE ON STEEL STANDARD WITH 4' ARM. 10/15 KL. COMBINATION TYPE COIL IN STANDARD BASE.
- ⊙ EXISTING MANHOLE
- ◎ NEW MANHOLE
- —— NEW DUCT LINES
- —X— EXISTING DUCT TO REMAIN
- —XX— EXISTING DUCT TO BE ABANDONED
- — — LIGHTING CIRCUIT

REVISIONS	DATE	DESCRIPTION	OHKD. BY
	5-12-41	STATIONS NUMBERED & M.H. ADDED	

PROPOSED LIGHTING ON SIX MILE ROAD OAKLAND TO DEQUINDRE

SCALE 1" = 50'

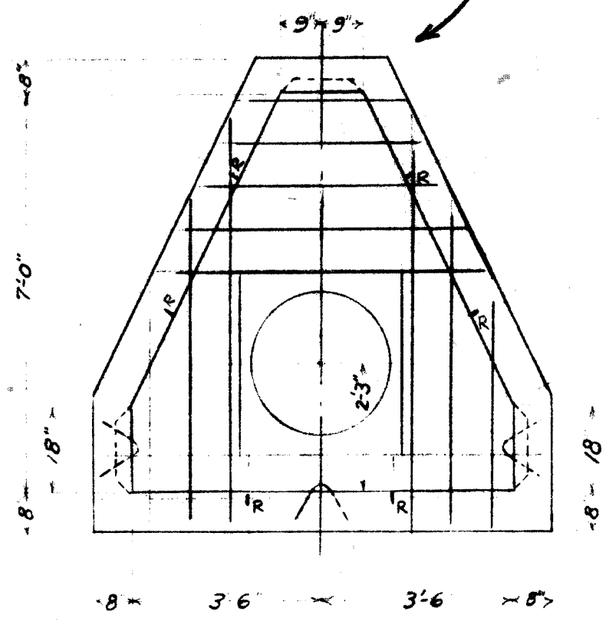
DRAWN BY	M.F.P.
CHECKED BY	R.T.L.
APPROVED BY	A.M.L.

PUBLIC LIGHTING COMMISSION
CITY OF DETROIT

FILE NO.	49-0205
SHEET NO.	
DATE	3-28-41

File XU103-49

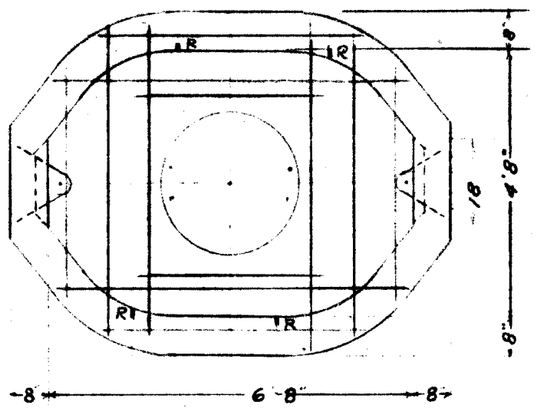
MANHOLES #3582 & #3581



3-WAY MANHOLE
60# T RAIL REQUIRED

1 PIECE	2'-10"	LONG
1 "	3'-8"	"
3 "	4'-4"	"
1 "	5'-2"	"
2 "	5'-8"	"
1 "	6'-0"	"
2 "	7'-2"	"
2 "	8'-3"	"
2 "	3'-2"	"

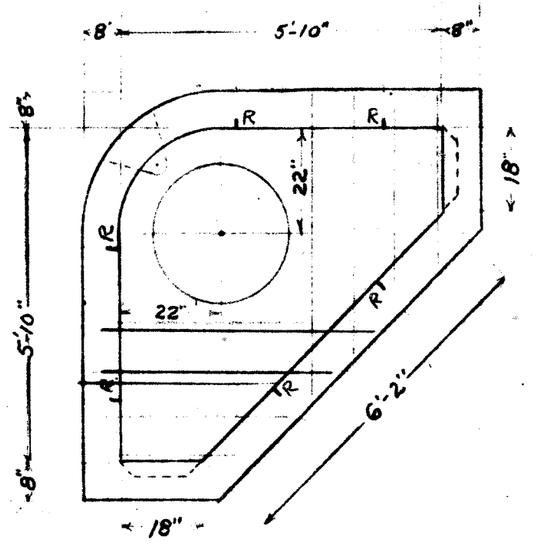
MANHOLES # 3583 & #4445



2-WAY MANHOLE
60# T RAIL REQUIRED

2 PIECES	3'-9"	LONG
2 "	5'-3"	"
4 "	5'-6"	"
2 "	6'-10"	"
2 "	3'-2"	"

MANHOLES #4444 & #4446

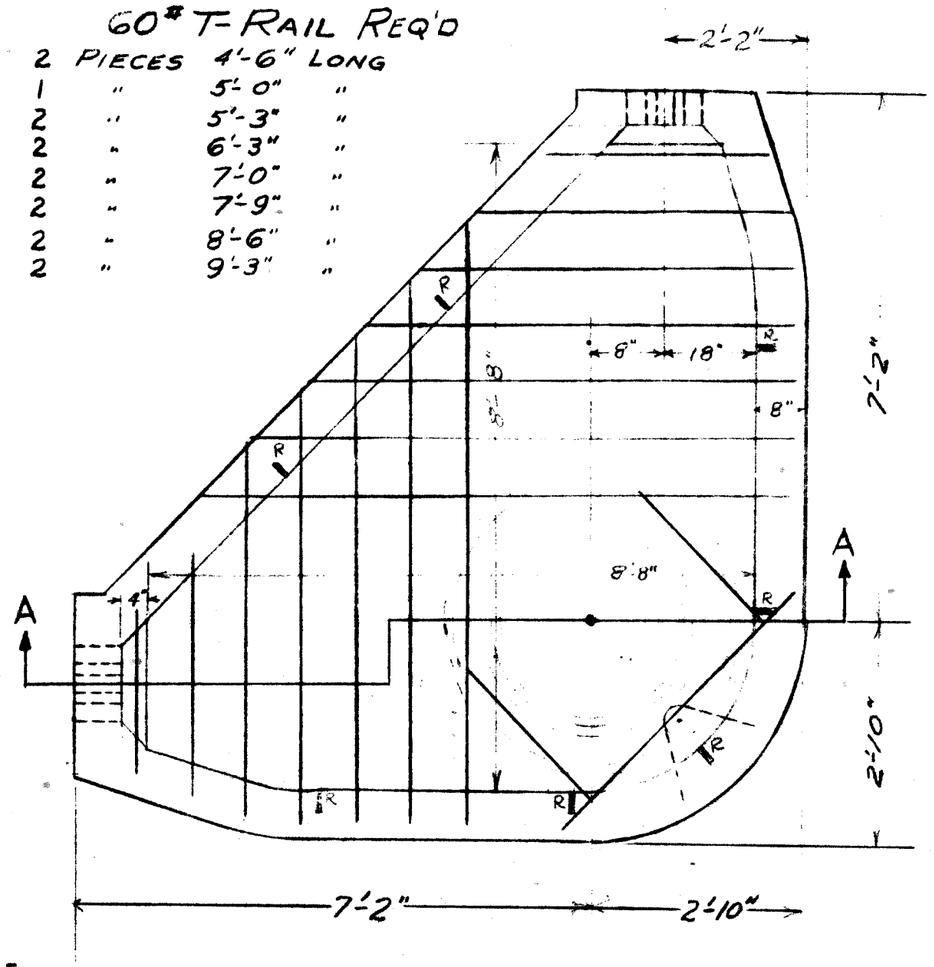


CORNER MANHOLE
60# T RAIL REQUIRED

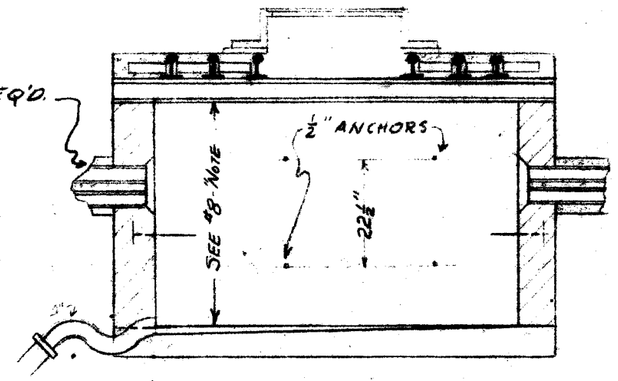
2 PIECES	3'-0"	LONG
3 "	3'-8"	"
2 "	4'-6"	"
2 "	5'-3"	"
1 "	4'-1"	"

SPECIAL CORNER MANHOLE #3580
60# T-RAIL REQ'D

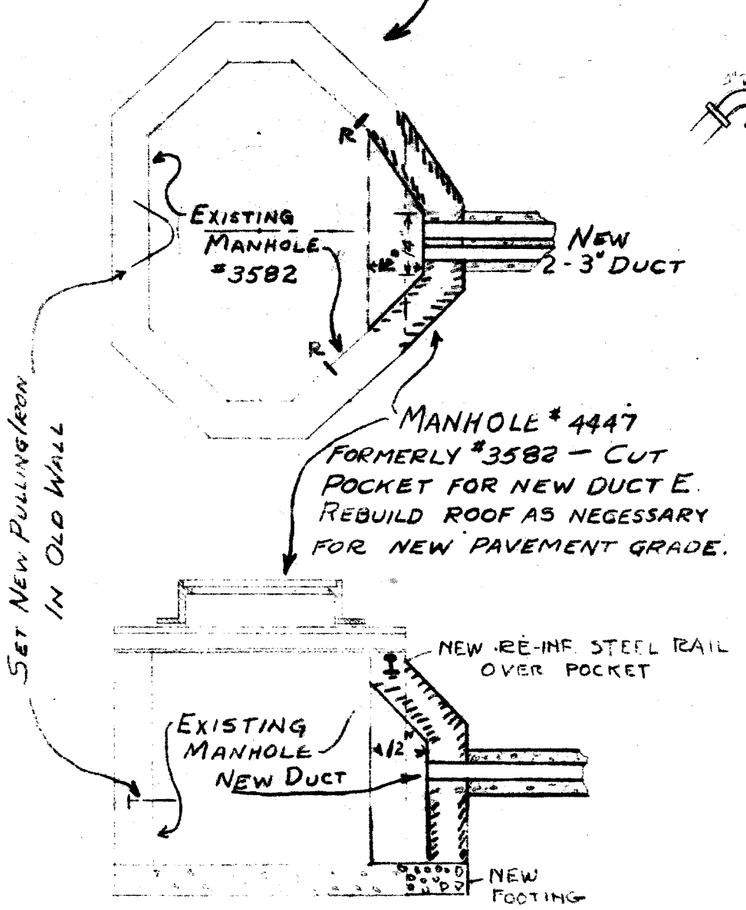
2 PIECES	4'-6"	LONG
1 "	5'-0"	"
2 "	5'-3"	"
2 "	6'-3"	"
2 "	7'-0"	"
2 "	7'-9"	"
2 "	8'-6"	"
2 "	9'-3"	"



CONDUIT AS REQ'D.



MANHOLE # 4447

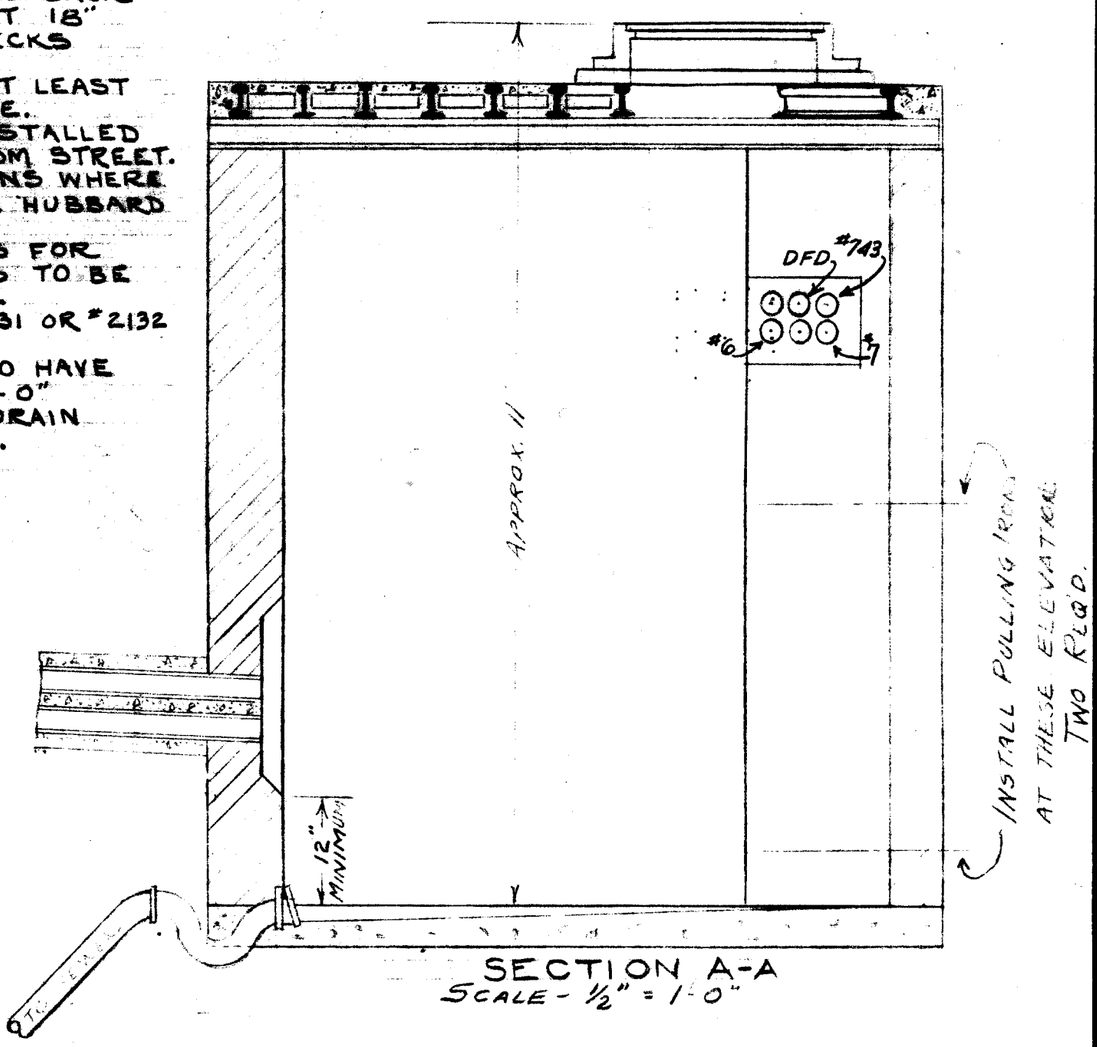


NOTES FOR ALL MANHOLES

1. MANHOLE ROOFS CONSIST OF 60# T RAILS WITH ONE ROW OF BRICK BETWEEN RAILS AND FILLED WITH CONCRETE.
2. WHERE MANHOLES ARE LOCATED BACK OF CURB, ROOF MUST BE BUILT 18" BELOW CURB GRADE. BUILD NECKS WITH BRICK AND CEMENT.
3. LOWEST CONDUIT MUST BE AT LEAST 12" ABOVE FLOOR OF MANHOLE.
4. MANHOLE NUMBER TO BE INSTALLED ON MANHOLE WALL VISIBLE FROM STREET.
5. INSTALL STD. ⅞" PULLING IRONS WHERE SHOWN. PULLING IRONS TO BE HUBBARD #9120 OR EQUAL.
6. "R" INDICATES ANCHOR BOLTS FOR CABLE RACK. CABLE RACKS TO BE HUBBARD #2125 OR EQUAL.
7. HOOKS TO BE HUBBARD #2131 OR #2132 OR EQUAL, AS REQUIRED.
8. "NOTE A" ALL MANHOLES TO HAVE MINIMUM HEADROOM OF 5'-0"
9. ALL MANHOLES TO HAVE DRAIN CONNECTIONS TO SEWER.

IN MANHOLE #3580

INSTALL G. AND W. FLEXIBLE BAND CABLE SUPPORT ON EACH CABLE WHERE IT CHANGES FROM UPPER TO LOWER DUCT LEVEL.



SECTION A-A
SCALE - ½" = 1'-0"

SCALE - ⅜" = 1'-0"

REVISIONS	DATE	DESCRIPTION	CHKD. BY

BRICK MANHOLES FOR PROPOSED LIGHTING
ON SIX MILE ROAD - OAKLAND TO DEQUINDRE
SCALES AS SHOWN

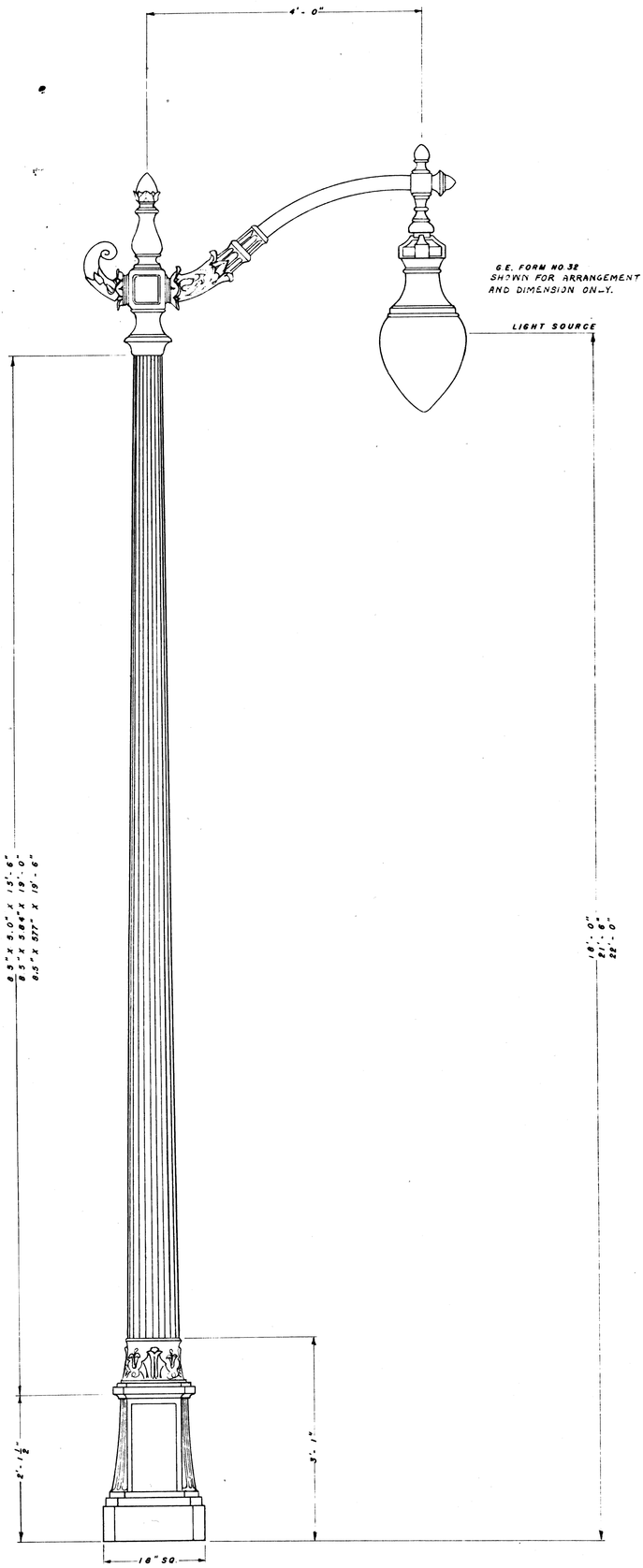
DRAWN BY B.H.W.
CHECKED BY R.T.L.
APPROVED BY C.M.F.

PUBLIC LIGHTING COMMISSION
CITY OF DETROIT

FILE NO. 42-0257
SHEET NO.
DATE 4-10-41

5

File XU103-50

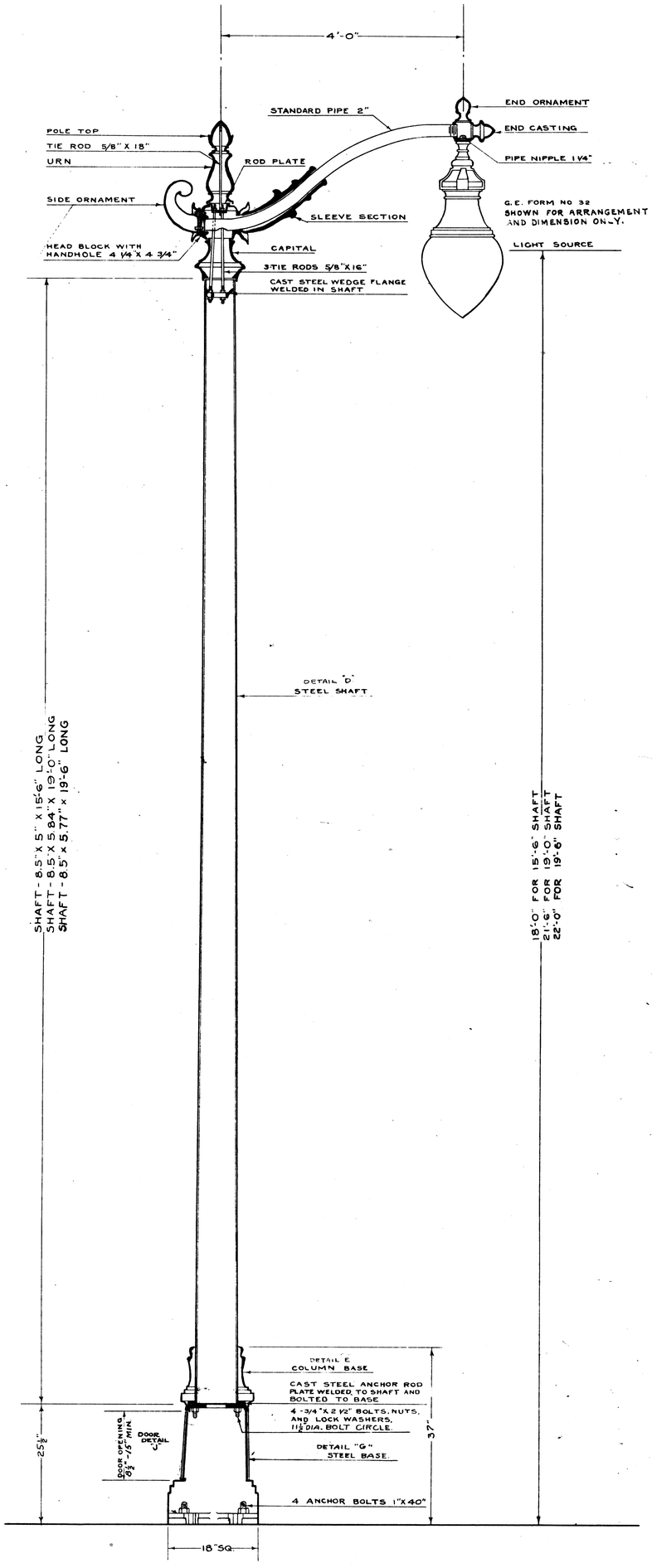


ORNAMENTAL STREET LIGHTING STANDARD

OLD NO. 5068
U.M. 4939
4930

DRAWN BY TEB	PUBLIC LIGHTING COMMISSION CITY OF DETROIT	FILE NO. 35-0119	
CHECKED BY R.T.L.		SHEET NO.	
APPROVED BY A.M.L.		DATE 4-15-37	

File XU 1193-51



NOTE -
DOOR TO BE ON LEFT SIDE WHEN
FACING POST FROM CENTER OF STREET.

REVISED DOOR OPENING DIMENSION 8-3-38
REVISION - BOLT CIRCLE DIA. ADDED 4-29-36.

SCALE ~ 1" = 1'-0"

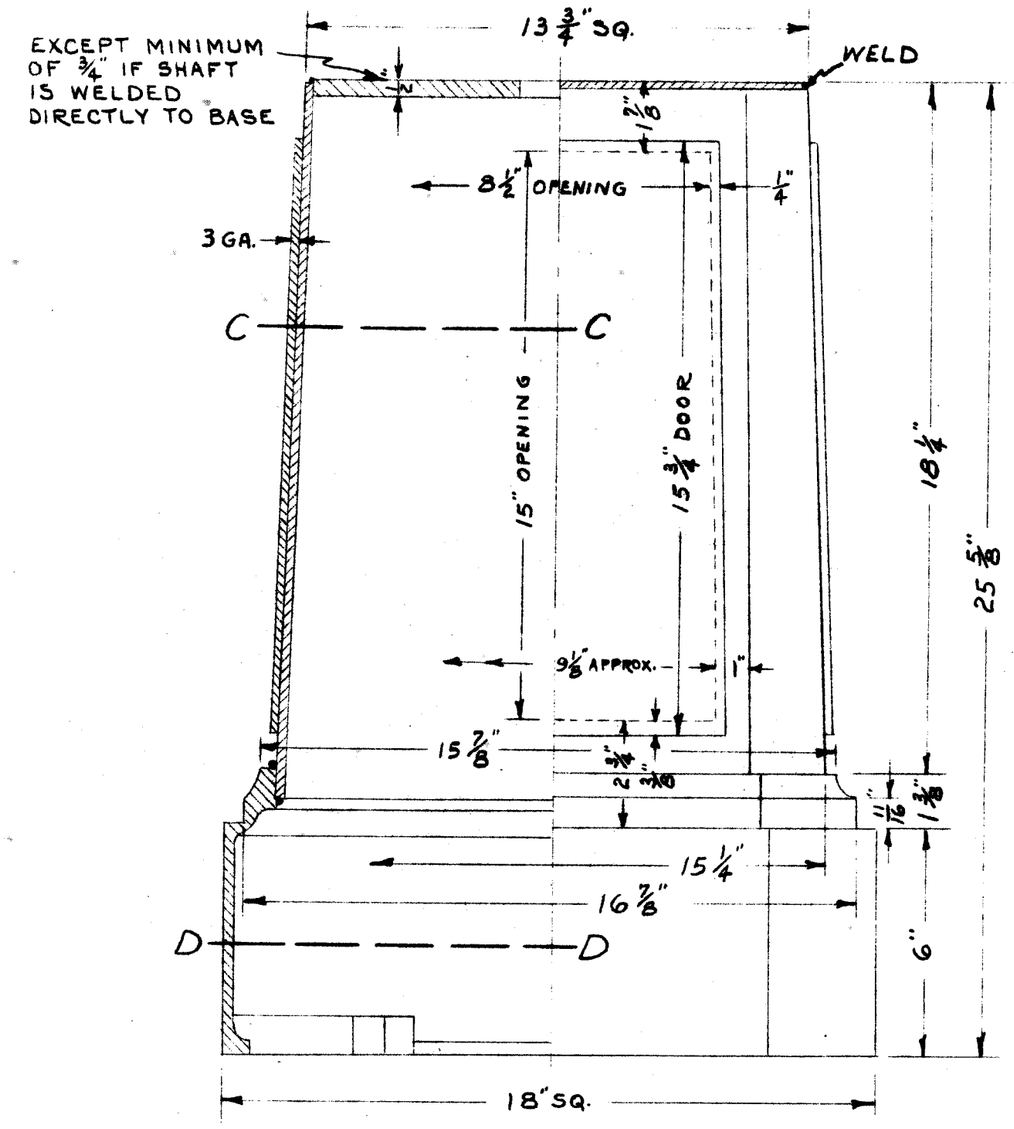
D 148-3066

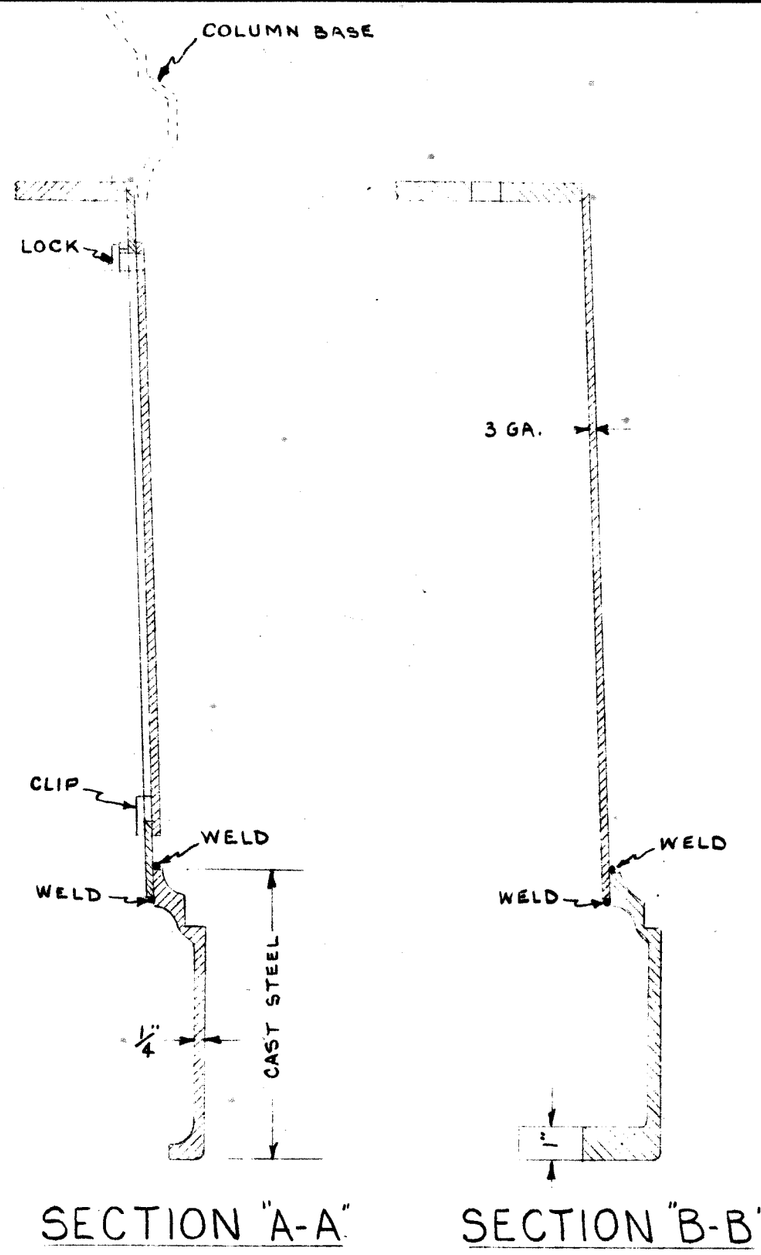
ORNAMENTAL PENDANT STREET LIGHTING STANDARD

DRAWN BY R.C. McMAHAN	PUBLIC LIGHTING COMMISSION CITY OF DETROIT		FILE NO. 35-0115
CHECKED BY			SHEET NO.
APPROVED BY G.M.F.			DATE 6-6-31

U.M.-4935 - 18'L.C.
U.M.-4950 - 21'-6"L.C. & 22'-0" L.C.

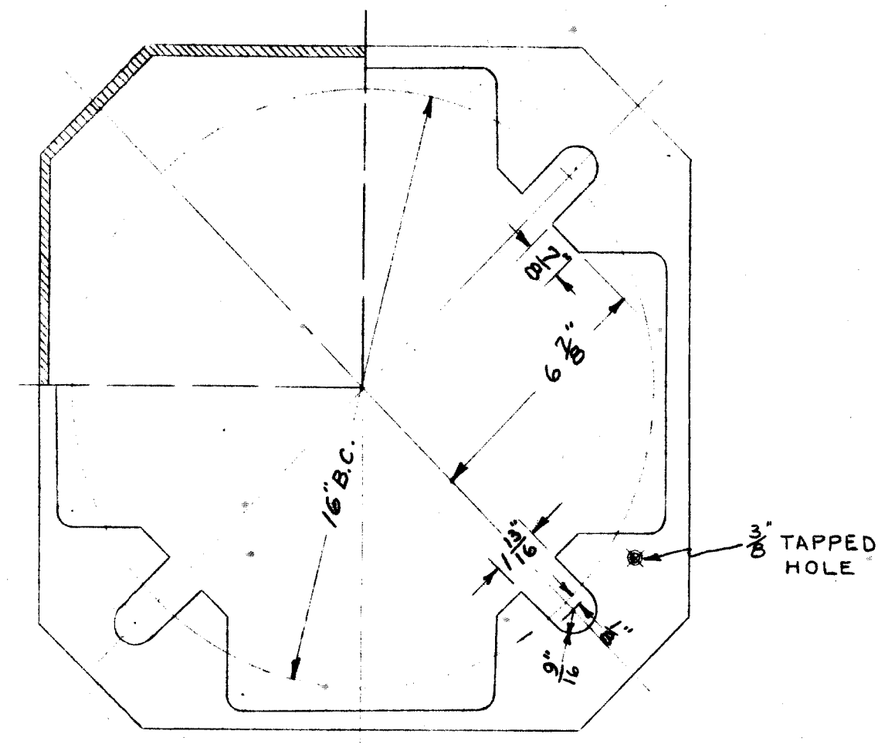
FILE XU1103-52



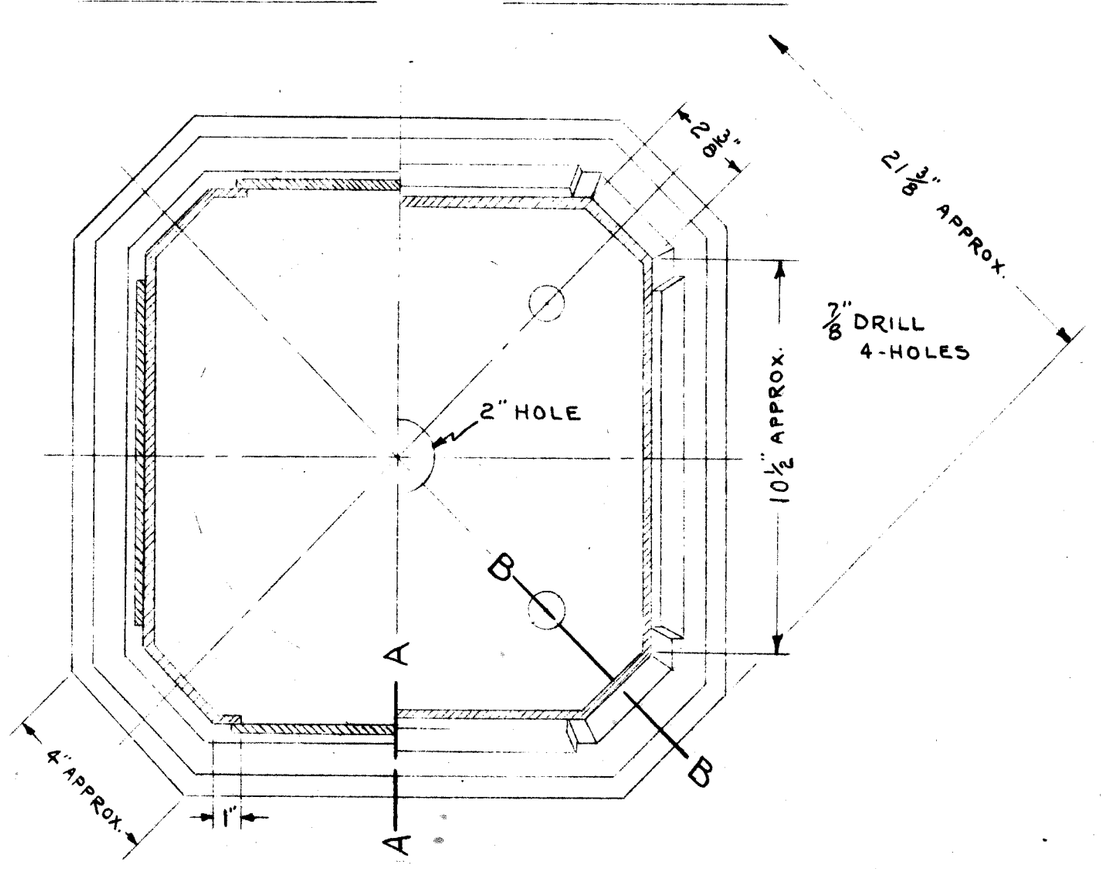


SECTION "A-A"

SECTION "B-B"



SECTION "D-D"
COMBINATION CAST & FABRICATED STEEL BASE



SECTION "C-C"

REVISIONS	DATE	DESCRIPTION	CHKD. BY

COMBINATION CAST AND FABRICATED BASE FOR RESIDENTIAL TYPE STANDARD

SCALE ¼" = 1'-0"

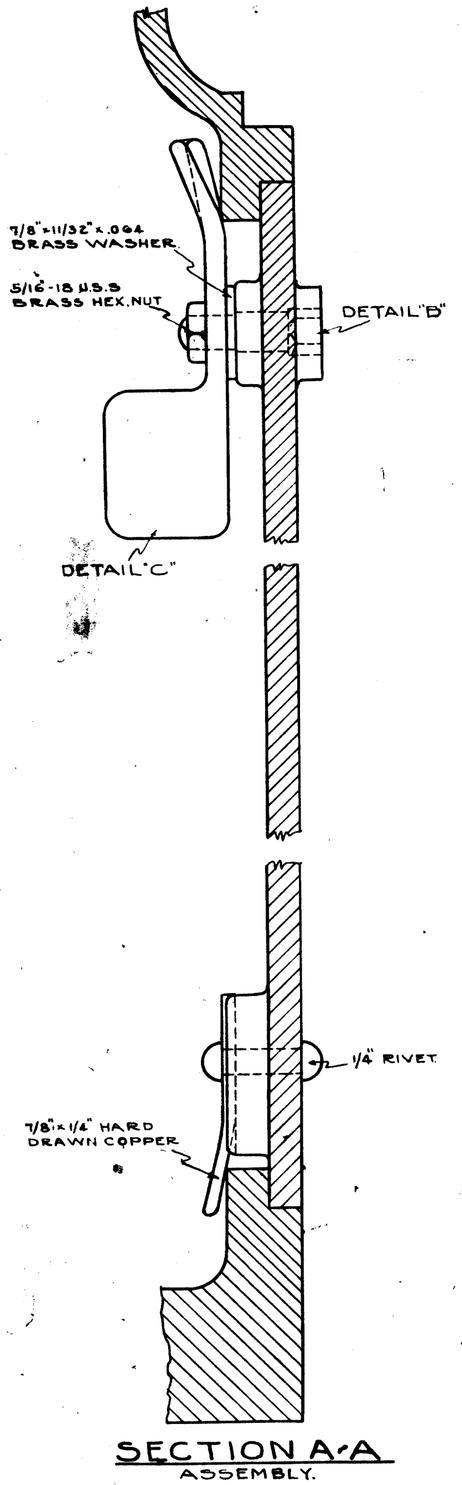
DRAWN BY	M. F. P.
CHECKED BY	M. K.
APPROVED BY	G. M. L.

PUBLIC LIGHTING COMMISSION
CITY OF DETROIT

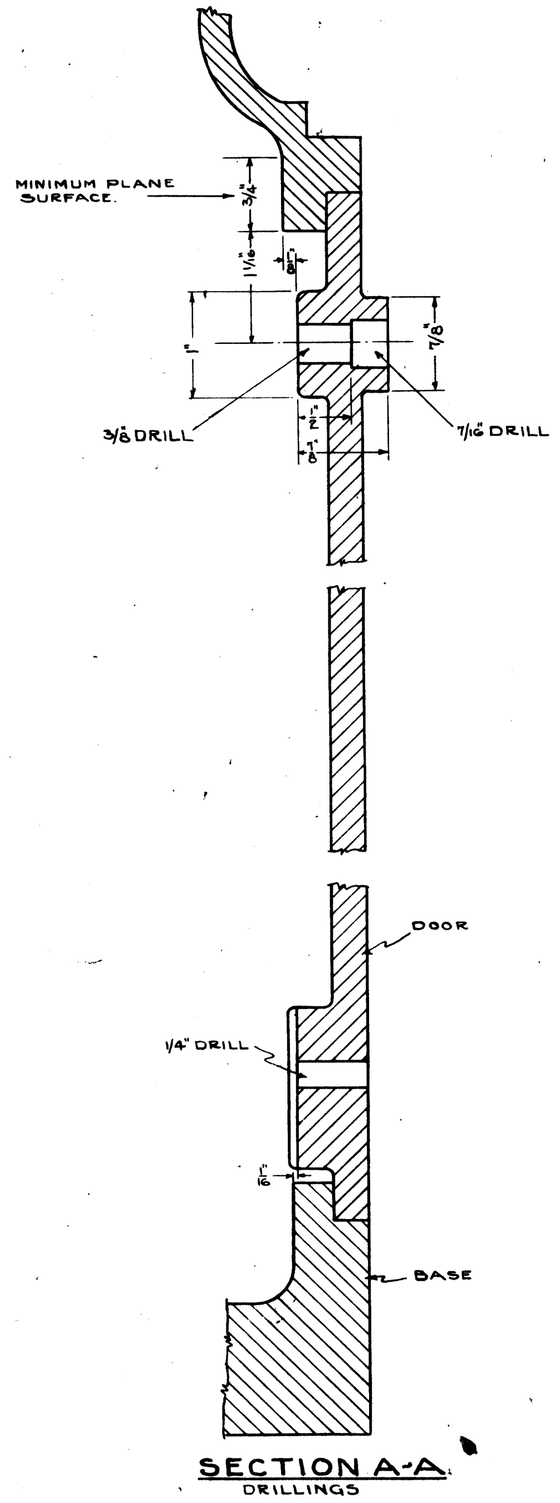
FILE NO.	43-0242
SHEET NO.	
DATE	4-9-41

File XU13-53

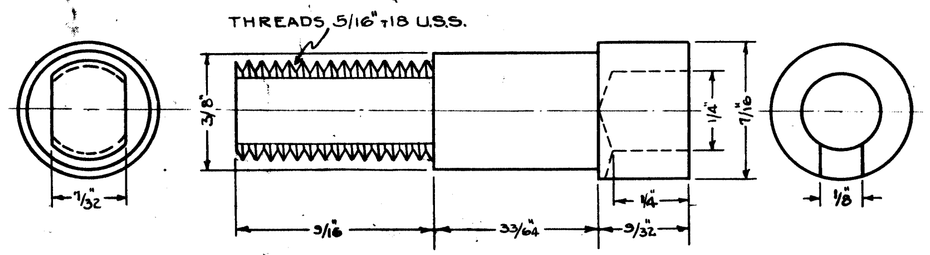
3



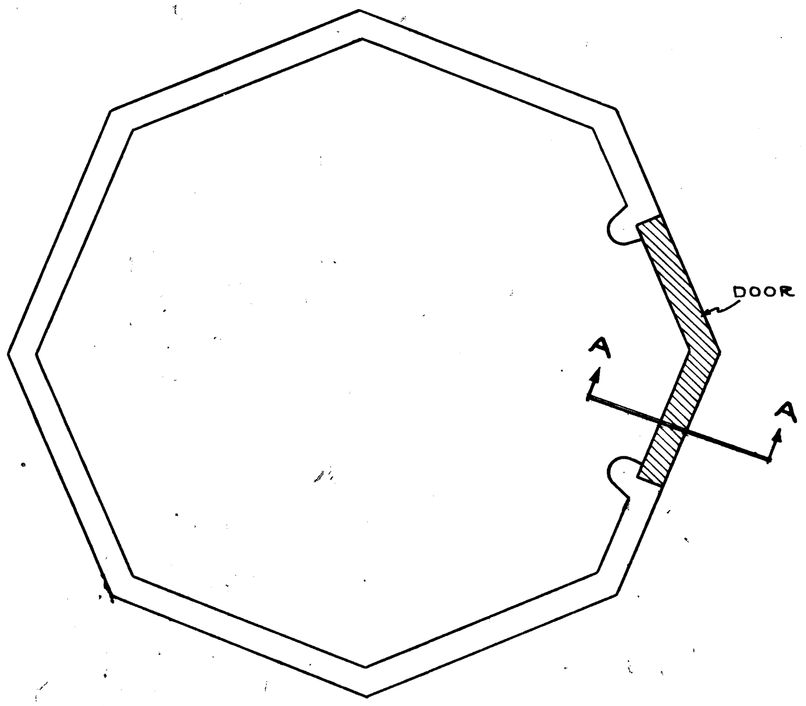
SECTION A-A
ASSEMBLY.



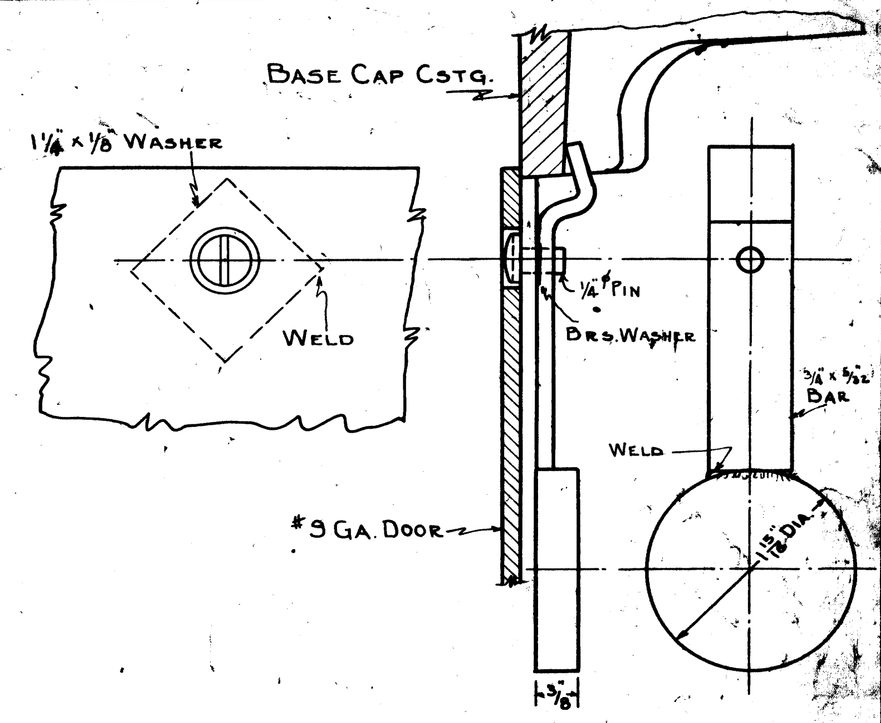
SECTION A-A
DRILLINGS



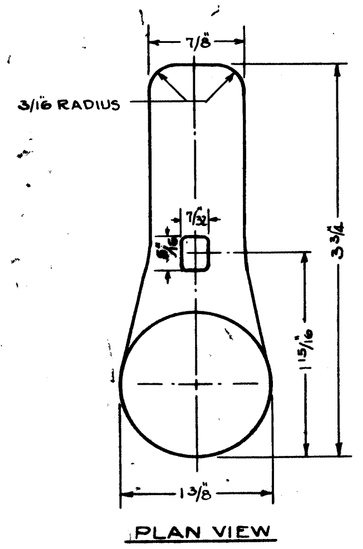
DETAIL "B" (FOR CAST BASE)
MATERIAL - BRASS.

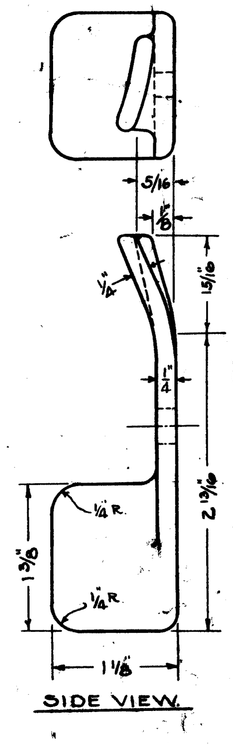


SECTION THRU BASE.



LOCK TO BE FURNISHED WITH FABRICATED STEEL BASES.





DETAIL "C" (FOR CAST BASE)
MATERIAL - MALLEABLE CAST IRON COATED WITH CADMIUM .0025" THICK.

NOTE:
RETRACED FROM DRWGS Nos 5035 & 5035A.

REVISIONS	DATE	DESCRIPTION	CHKD. BY
	1-26-31	LOCK FOR FABRICATED STEEL BSE. SHOWN	

DOOR LOCK ASSEMBLY & DETAILS FOR STREET LIGHTING STANDARDS FOR CAST & FABRICATED STEEL BASES.

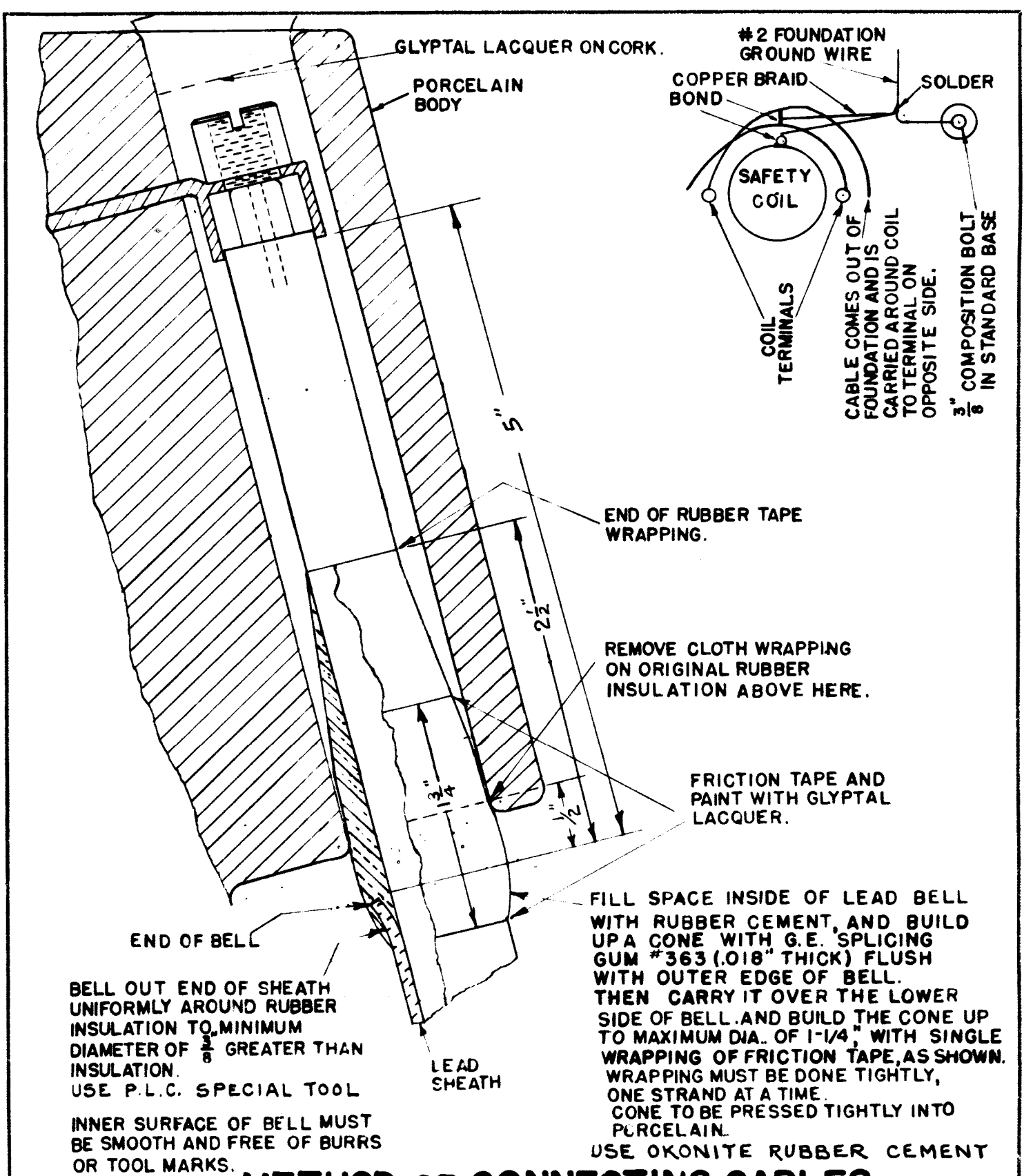
DRAWN BY	C.L.P.
CHECKED BY	[illegible]
APPROVED BY	R. M. L.

PUBLIC LIGHTING COMMISSION
CITY OF DETROIT

FILE NO. [illegible]
SHEET NO. 1
DATE 10-25-30

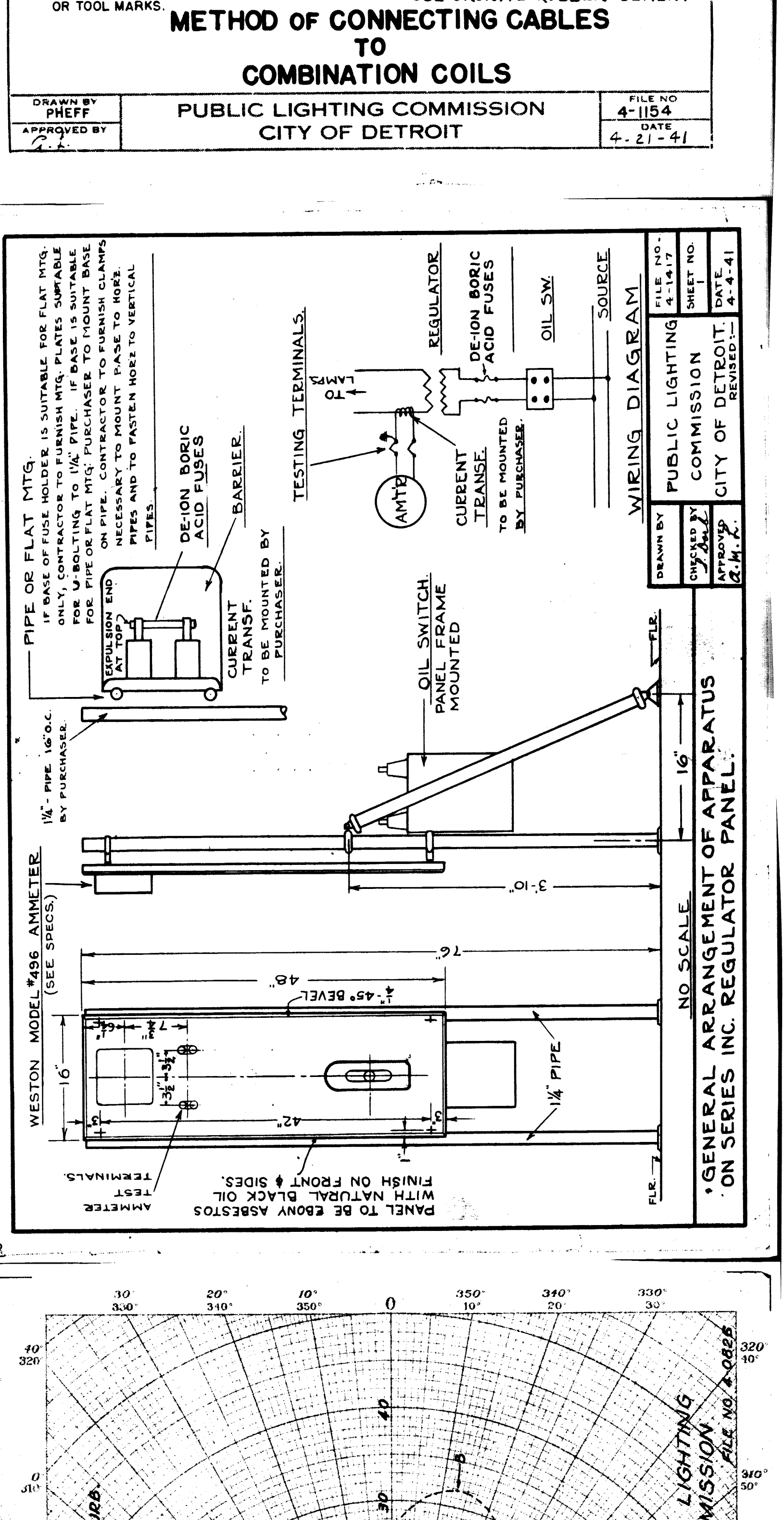
File XU103-54

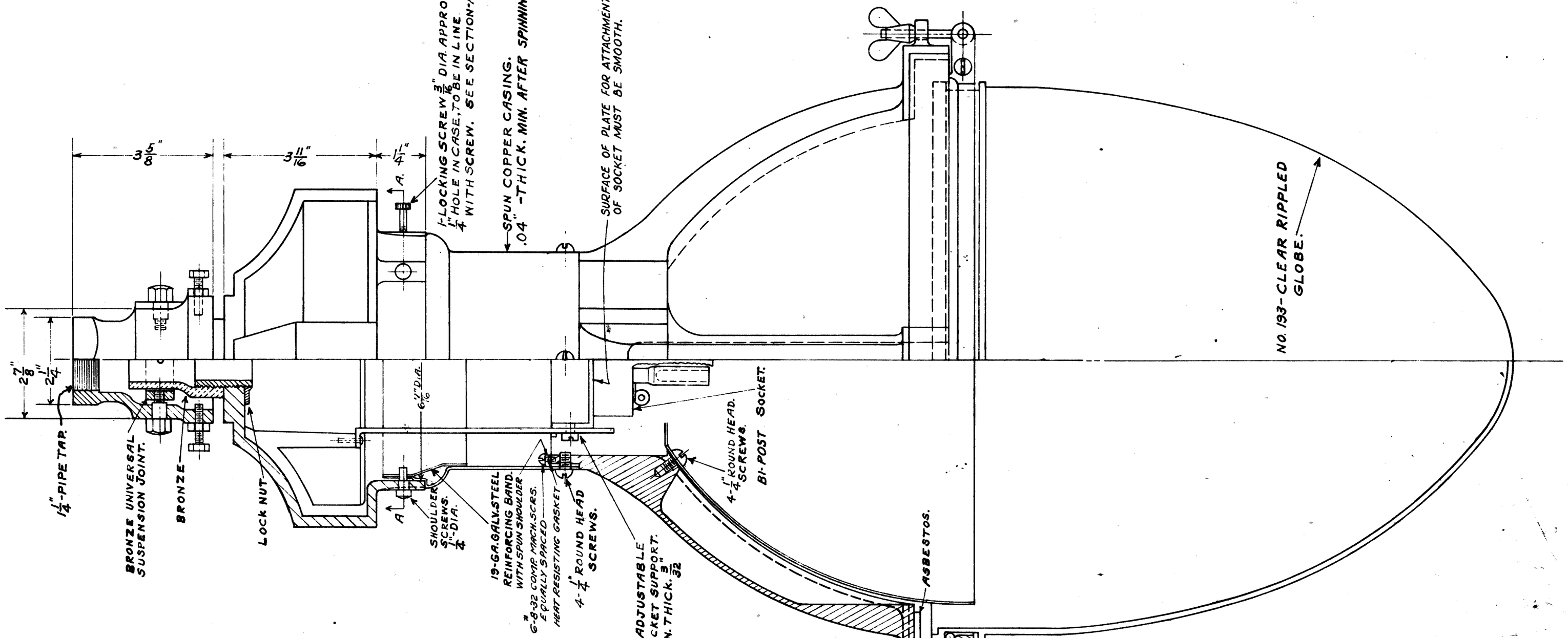
3



METHOD OF CONNECTING CABLES TO COMBINATION COILS

DRAWN BY PHEFF	PUBLIC LIGHTING COMMISSION CITY OF DETROIT	FILE NO 4-1154
APPROVED BY C.T.		DATE 4-21-41





SECTION-A-A-SHOWING LOCKING SCREW.

TOP VIEW OF COVER.

NOTE.

THIS IS AN OUTLINE DRAWING ONLY.
BIDDER IS RESPONSIBLE FOR CHARACTERISTICS AND CONSTRUCTION OF FIXTURE WHICH HE FURNISHES.

REVISIONS	DATE	DESCRIPTION	CHKD. BY
	12-2-38	HEAT RESISTING GASKET ADDED AND	
		REINFORCING BAND REVISED	RTL
	9-13-40	TOP SET SCREW REMOVED & SOCKET CHANGED TO BI-POST	RTL

SUSPENSION STREET LIGHTING UNIT.

NOT TO SCALE.

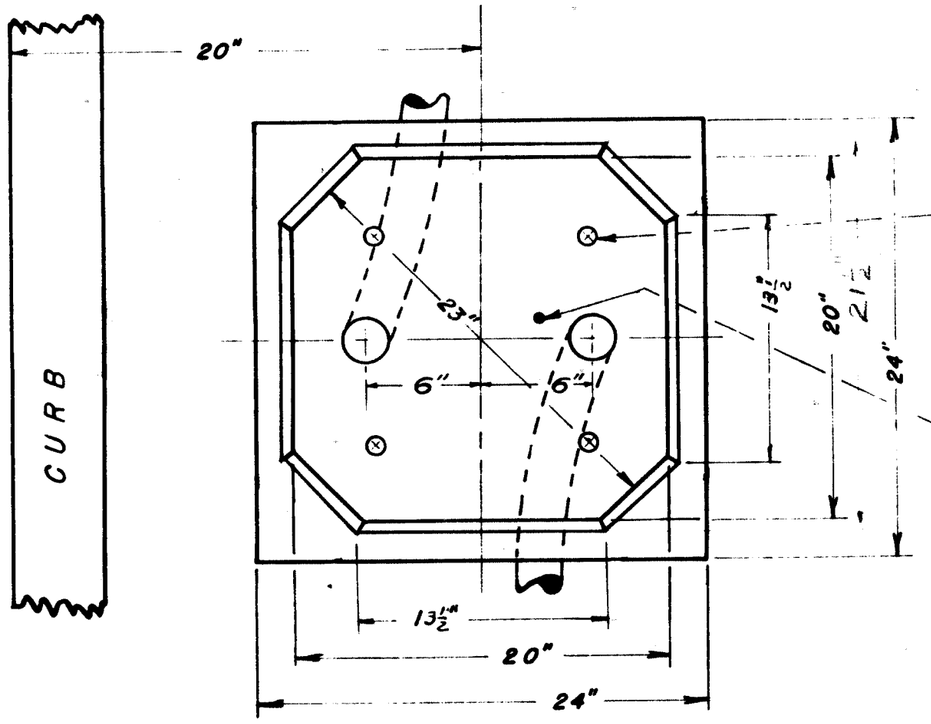
DRAWN BY	W. H. FLORD.
CHECKED BY	
APPROVED BY	Q. M. L.

PUBLIC LIGHTING COMMISSION
CITY OF DETROIT

FILE. NO.	43-0227
SHEET NO.	
DATE	3-19-36

3

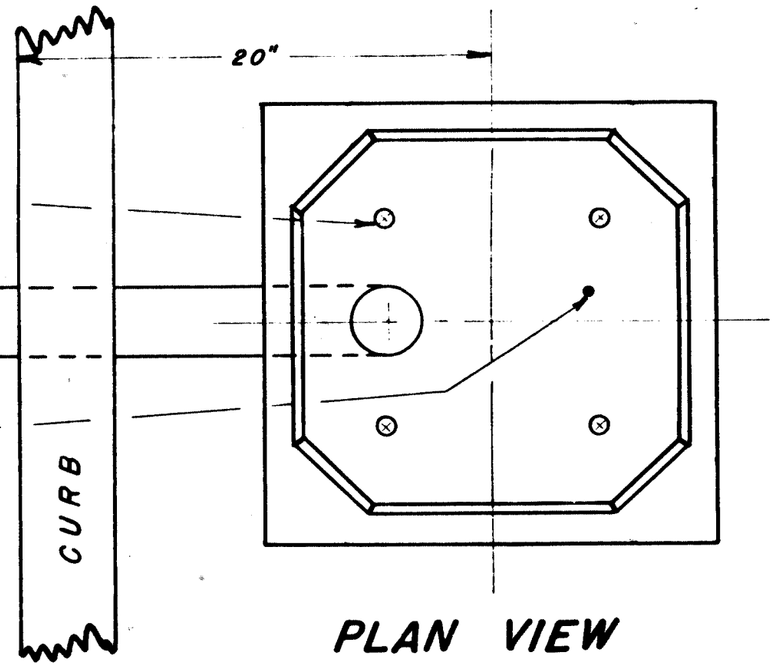
File XU 103-56



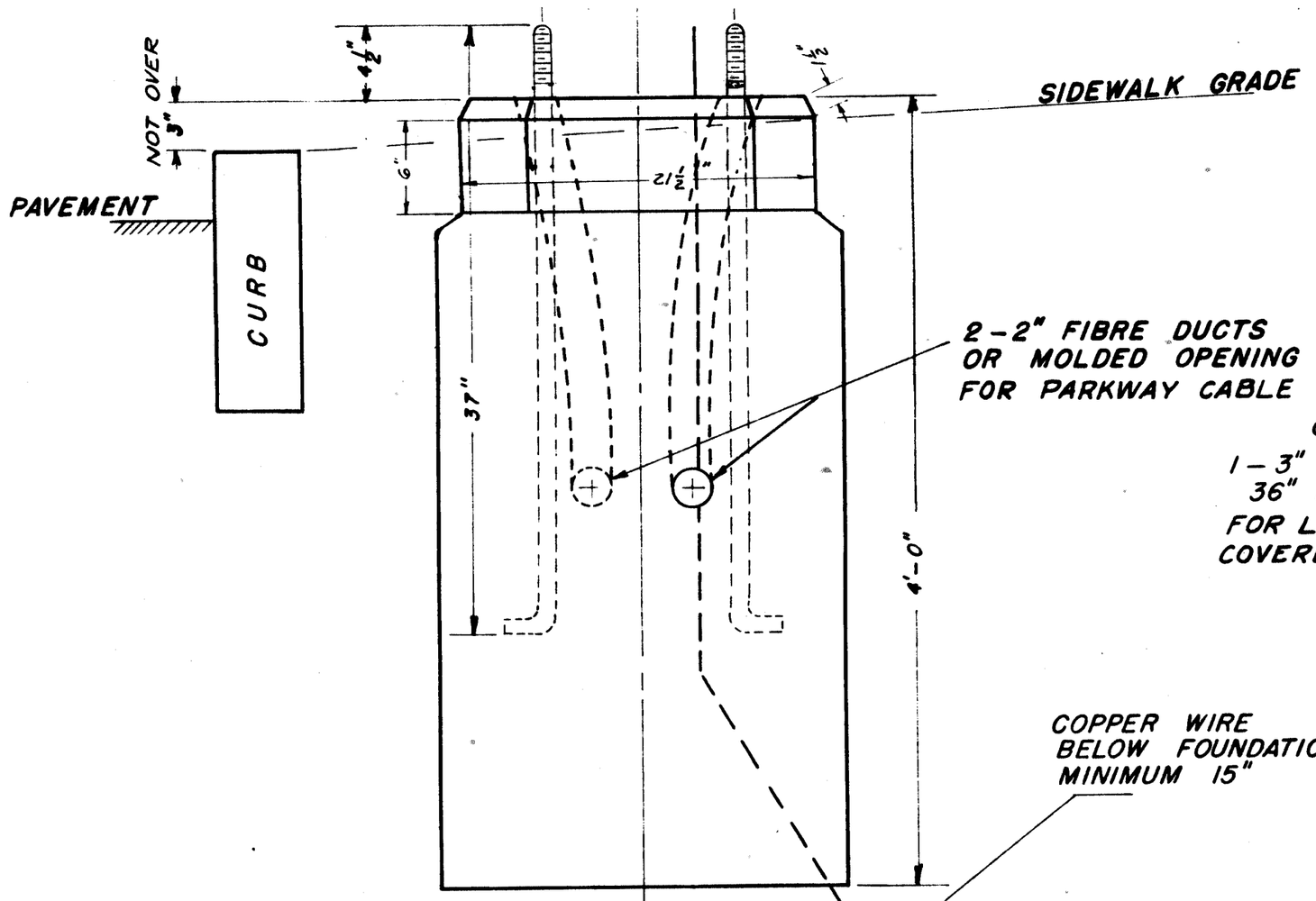
PLAN VIEW

4 - 1" BOLTS ON 16" CIRCLE

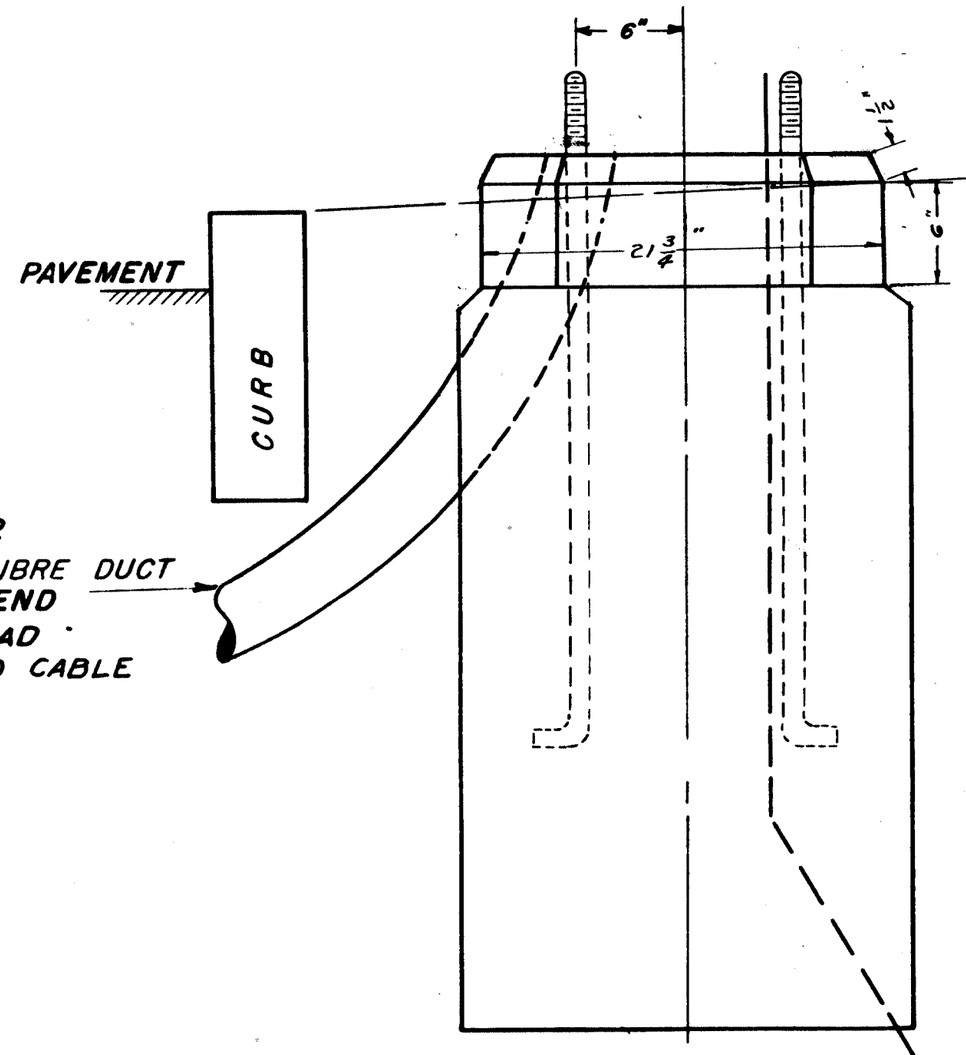
2 STRANDED COPPER GROUND WIRE NOT LESS THAN 15" BELOW BOTTOM OF EXCAVATION & BROUGHT UP TO THIS POINT WITH 15" SLACK ABOVE



PLAN VIEW



ELEVATIONAL VIEW
PARKWAY CABLE FOUNDATION



ELEVATIONAL VIEW
DUCT FOUNDATION

NOTE —
FOUNDATION BOLTS & NUTS MUST BE COMPLETELY CADMIUM COATED AFTER THREADING, TO THICKNESS OF .00025". NUTS MUST TURN FREELY.

SCALE 1½" = 1'

REVISIONS	DATE	DESCRIPTION	CHKD. BY
	7-15-40	ALTERED TOP OF FOUNDATION	

LAMP POST FOUNDATION

DRAWN BY	M. F. P.
CHECKED BY	K.T.L.
APPROVED BY	A. W. L.

PUBLIC LIGHTING COMMISSION
CITY OF DETROIT

FILE NO.	43-0330
SHEET NO.	
DATE	10-18-37

File XU 103-57