COMMONWEALTH OF PENNSYLVANIA
PENNSYLVANIA PUBLIC UTILITY COMMISSION
P. O. BOX 3265, HARRISBURG, Pa. 17120

May 8, 1986

IN REPLY PLEASE
REFER TO OUR FILE

C-80092154

Michael Della Vecchia, Recorder of Deeds
Allegheny County
Courthouse
Grant Street
Pittsburgh, PA 15219

DOCUMENT FOLDER

DOCKETED
MAY 1 1986

Glenfield Borough
v.
Consolidated Rail Corporation, Allegheny County
and Pennsylvania Department of Transportation

Dear Sir:

Enclosed, herewith, is a certified copy of an excerpt of the Commission order of April 24, 1986, , in the above case, appropriating certain lands in the County of Allegheny , said lands being described by metes and bounds.

The provisions of Section 409 (d) of the Public Utility Law of 1937, P. L. 1053, as amended by Act. No. 388, approved on May 25, 1945, require that:

"The Commission shall file with the recorder of deeds of the proper county, a copy of that portion of the order of the Commission which appropriates such property and such plans and other detailed information as the Commission may deem necessary. Such portion of the Commission's order dealing with the specific property appropriated shall be recorded and indexed under the name or names of the record owners of such specific property at the expenses of the utility or utilities, political subdivisions, municipality or municipalities, governmental agency, including the Department of Transportation and Public Utility Commission, corporation or persons upon whose instigation, petition or complaint the said crossing was constructed, reconstructed, relocated, altered or abolished, as may be ordered to bear such expense of recording by the Commission; Provided that when such appropriation

of real property has been recorded under the provisions of any other statute, such recording shall not be duplicated under the terms of this section."

You will note that the enclosed excerpt of the Commission order designated the Pennsylvania Department of Transportation as the party responsible for the costs of recording. Consequently, your bill or statement billed in the name of and for the recording fee should be directed to the PennDOT, Trans. & Safety Bldg. Hbg., PA 17120 so that payment may be made promptly.

Kindly advise at your earliest convenience the date of recording and the volume and page at which this order is recorded in your records and return to the Commission.

Very truly yours,

Jerry Rich, Secretary

jr
Encls.
Cert. Mail

COMMONWEALTH OF PENNSYLVANIA
PENNSYLVANIA PUBLIC UTILITY COMMISSION
P. O. BOX 3265, HARRISBURG, Pa. 17120

June 3, 1985

IN REPLY PLEASE
REFER TO OUR FILE

C-79081311
C-80092154
C-80122300
I-78020294
I-830372

Mr. W. J. Clements, Chief
Right-of-Way and Utility Division
Pennsylvania Department of Transportation
509 Transportation and Safety Building
Harrisburg, Pa 17120

Dear Mr. Clements:

This Commission adopted orders in the above referenced proceedings directing the Department to complete work as follows:

C-79081311	Construction	9-30-83
C-80092154	Study	12-01-84 (Second Notice)
C-80122300	Plans	10-29-84 (Second Notice)
I-78020294	Plans	6-11-84 (Second Notice)
I-830372	Plans	1-09-85

Our "PAST DUE" report indicates that the Department apparently has not complied with our orders. Please review these proceedings and if compliance is not anticipated within several months, please submit petitions requesting extension of time in which to comply with this Commission's orders.

Your attention to this matter will be greatly appreciated.

Very truly yours,

R. A. Peteritas, Director
Bureau of Rail Transportation

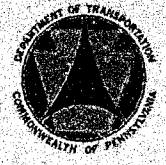
DRF:11r

DOCUMENT FOLDER

DOCKETED
JUN 5 - 1985

ORIGINAL

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
Harrisburg
August 21, 1986



DOCUMENT FOLDER

RECEIVED
AUG 22 1986
SECRETARY'S OFFICE
Public Utility Commission

IN REPLY REFER TO

Allegheny County
Glenfield Viaduct
Glenfield Borough
PUC. C. 80092154

Mr. Jerry Rich, Secretary
Public Utility Commission
Harrisburg, PA 17120

Dear Mr. Rich:

Reference is made to Paragraphs 5 and 6 of your Commission's Order entered February 4, 1986 in the above referenced proceeding.

The Department of Transportation has taken all steps necessary to properly evaluate the Glenfield Viaduct for the purposes of repairing and/or strengthening the existing structure to carry loads equivalent to sixteen (16) tons. Attached please find the following:

1. Three (3) sets of the Drawings for Construction of Temporary Support, Glenfield Viaduct in Allegheny County and signed by the District Engineer on August 1, 1986.

2. Three (3) sets of the Structure Drawings for Temporary Bridge Supports and signed by the District Bridge Engineer on June 9, 1986.

We anticipate construction of the above referenced work can begin on October 23, 1986. The construction contract will be let on September 25, 1986. The span over ConRail will not be affected by the proposed support scheme.

A copy of this letter and one (1) set of the aforementioned data are being forwarded to the following parties of record:

Allegheny County Commissioners, James H. McLean, Solicitor, 1200 Allegheny Bldg., Pittsburgh, PA 15219
Albert G. Feczko, Jr., Esquire, Glenfield Borough, The Professional Office Building, 430 Blvd. of the Allies, Pittsburgh, PA 15219

-continue-

Daniel F. Donovan, General Attorney, Consolidated Rail Corporation, 1138 Six Penn Center Plaza, Philadelphia, PA 19103

William L. Leonard, Vice President & General Counsel, The Bell Telephone Company of PA, One Parkway, Philadelphia, PA 19102

William Jacoby, Esquire, Columbia Gas of PA, Inc., P. O. Box 117, Columbus, Ohio 43216

Larry R. Crayne, Esquire, Duquesne Light Company, 1 Oxford Center, 301 Grant Street, Pittsburgh, PA 15219

Very truly yours,

For: William R. Moyer, P. E.
Acting Chief Engineer
Highway Administration

Attachments

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF TRANSPORTATION

| | | |

PUBLIC UTILITIES

BELL OF PENNSYLVANIA
201 STANWIX STREET
PITTSBURGH, PA 15222
ATTN: MR. R. HILLIARD
PHONE: (412) 633-3131

COLUMBIA GAS OF PENNSYLVANIA, INC.
61 EAST WHEELING STREET
P.O. BOX Z
WASHINGTON, PA 15301-0610
ATTN: JOHN R. WEBER, P.E.
PHONE: (412) 746-2600

DUQUESNE LIGHT COMPANY
1 OXFORD CENTER
301 GRANT STREET
PITTSBURGH, PA 15279
ATTN: RAYMOND J. WIEHAGEN
PHONE: (412) 393-6000

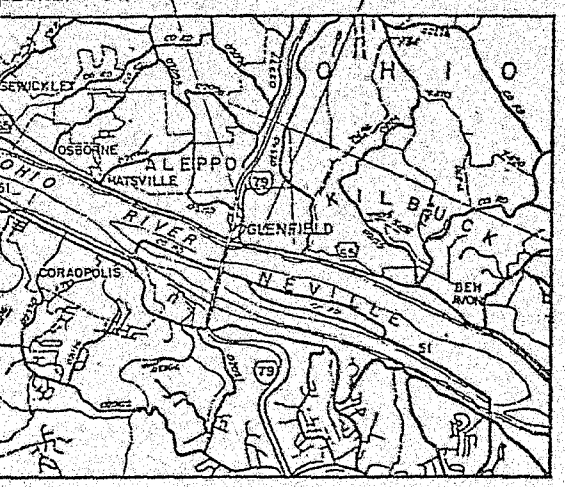
BOROUGH OF GLENFIELD (WATER LINE)
105 RIVER ROAD
SEWICKLEY, PA 15143
ATTN: ANN KIPILO
PHONE: (412) 741-8566

CONSOLIDATED RAIL CORPORATION - CONRAIL
15 N. 3RD STREET
PHILADELPHIA, PA 19104
ATTN: J.T. SULLIVAN
PHONE: (215) 596-3848

CENTRE VIDEO (CABLE TV)
192 OHIO RIVER BLVD.
AMBRIDGE, PA 15001
ATTN: RALPH YAGULLI
PHONE: (412) 922-5522

LIMIT OF WORK
STA. 0+00
GLENFIELD VIADUCT
GLENFIELD BORO
ALLEGHENY CO.

LIMIT OF WORK
STA 4.+99
GLENFIELD VIADUCT
GLENFIELD BORO
ALLEGHENY CO.



LOCATION MAP

1 0 1 2 3 MILES

LEGEND

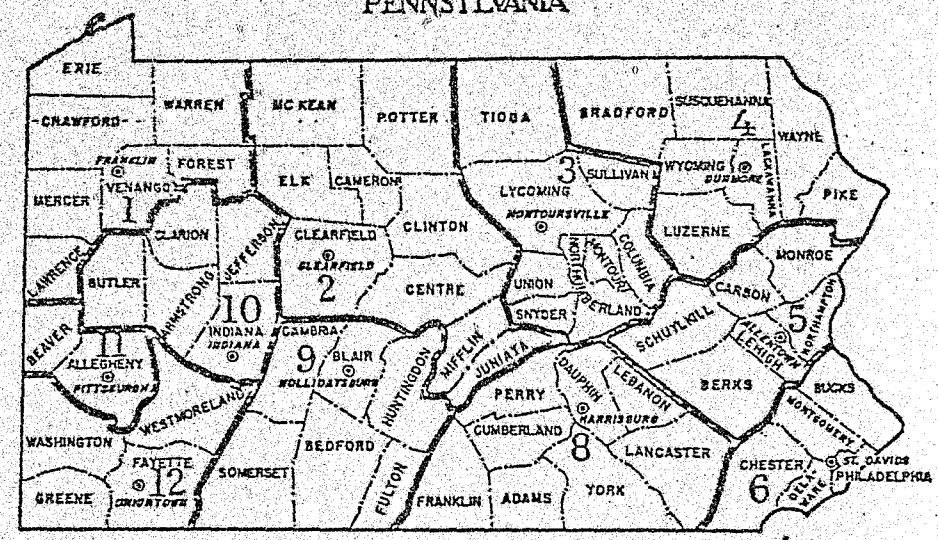
STATE HIGHWAYS

TOWNSHIP ROADS

NO DETOUR

GLENFIELD BOROUGH			
REVISION NUMBER	REVISIONS	DATE	BY

PENNSYLVANIA



4 DISTRICT

@ DISTRICT OFFICE

GENERAL NOTES

THE LEGAL RIGHT-OF-WAY ON GLENFIELD VIADUCT IS BASED ON CONRAIL PLAN NO. 21453 DATED JUNE 15, 1926. THERE IS NO OTHER RECORD OF THIS RIGHT-OF-WAY.

DETAILS OTHER THAN THOSE INDICATED ARE ON THE FOLLOWING STANDARD DRAWINGS:

RC-11 MAY 2, 1983 2 SHEETS

RC-12 MAY 2, 1983 1 SHEET

HORIZONTAL CONTROL IS TIED TO L.R 652.

CONSTRUCT PROJECT IN ACCORDANCE WITH SPECIFICATIONS, PUBLICATION 408, DATED 1983.

DO NOT INTERFERE WITH THE OPERATION OF ANY FIRE HYDRANT, FIRE CALL BOX OR POLICE CALL BOX.

▲ SEE SPECIAL PROVISION

SUMMARY

ITEM NO.	QTY.	UNIT	DESCRIPTION	ALT.	TAB. on SHEET
204 - 0100	358	C.Y.	CLASS 3 EXCAVATION		
608 - 0001	—	L.S.	MOBILIZATION ▲		
609 - 0004	—	L.S.	INSPECTOR'S FIELD OFFICE AND INSPECTION FACILITIES - TYPE C		
901 - 0001	—	L.S.	MAINTENANCE & PROTECTION OF TRAFFIC DURING CONSTRUCTION ▲		
001 - 0010	93	C.Y.	CLASS A CEMENT CONCRETE		
001 - 0701	—	L.S.	SELECTED BORROW EXCAVATION STRUCTURE BACKFILL (APPROX 265 C.Y.)		
002 - 0001	16100	LB	REINFORCEMENT BARS		
003 - 0005	32	EA.	DOWEL HOLES 12" DEPTH		
056 - 0001	—	LS	FABRICATED STRUCTURAL STEEL ▲		

ITEM NO.	QTY.	UNIT	DESCRIPTION	ALT.	TAB. on SHEET

*SUMMARY

ITEM NO	DESCRIPTION	UNIT	TOTAL
0204-0100	CLASS 3 EXCAVATION	CY	356
1001-0010	CLASS A CEMENT CONCRETE	CY	93
1001-0701	SELECTED BORROW EXCAVATION STRUCTURE BACKFILL (APPROX 265 C.Y.)	LS**	LS
1002-0001	REINFORCEMENT BARS	LB	16,100
1003-0005	DOWEL HOLES 12 INCH DEPTH	EA	32
1056-0006	FABRICATED STRUCTURAL STEEL	LS	LS

*ALL QUANTITIES ARE APPROXIMATE

**APPROXIMATE 119,553 LBS.

MARK	SIZE	LENGTH	NO.
F501	5	5'-2"	264
F701	7	5'-2"	272
F702	7	22'-2"	44
F703	7	22'-7½"	44
F901	9	22'-2"	60
F902	9	22'-7½"	60

ALL BAR TO BE STR.

11-12	B
17-18	B
19-20	A

DOCKETED

AUG 25 1986

DOCUMENT FOLDER

LEGEND

DENOTES EXISTING STRUCTURE

PLAN (SECTION A-A)

DETAIL-F SHEET 2

SHEET 2 H

SHEET 2 H

DETAIL-E SHEET-2

DETAIL-G SHEET-2

DETAIL-L SHEET-2

APPROX ½ OF "C"

"C" DIMENSION VARIES FOR EACH SET OF PIERS

B

DETAIL-D SHEET-2

FILL AROUND SUPPORTS WITH EXCAVATION MATERIAL

16'-6" (7-8, 9-10 & 19-20)

16'-11½" (11-12 & 17-18)

SECTION A-A

23-F501@12"± (TOP) FOR "A"

24-F501@12"± (TOP) FOR "B"

3'-0" TYP

CL2"

11-F702@6"± (BOTT) FOR "A"

11-F703@6"± (BOTT) FOR "B"

C

C

2'-5"

5'-6"

CL2"

CL4"

12"

12"

9-F501@12"± (BOTT) FOR "A"

10-F501@12"± (BOTT) FOR "B"

17-F701@4½"± (BOTT) FOR "A" & "B"

17-F701@4½"± (BOTT) FOR "A" & "B"

15-F901@4½"± (TOP) FOR "A"

15-F902@4½"± (TOP) FOR "B"

SECTION B-B

SCALE: ⅜" = 1'

F501 & F902

F501

2'-6"

CL 4"

CL 4"

F701

*

F501

F701

22'-6" MARKED "A"

22'-11½" MARKED "B"

F702 & F703

SECTION C-C

SCALE: ⅜" = 1"

DISTANCE VARIES FOR EACH SET OF PIERS

℄ EAST BEAVER STREET

TO LR652 OHIO RIVER BLVD

A

A

GLENFIELD VIADUCT

TO EAST BEAVER STREET

PLAN

SCALE: 1" = 20'

* REMOVE MATERIAL UNDER NEW FOOTER TO THE BOTTOM OF OLD FOOTING AND PLACE SUITABLE MATERIAL IN 4" LAYERS (COMPACT) TO BOTTOM OF NEW FOOTER ELEVATION.

- DESIGN SPECIFICATIONS: DESIGN DIVISION OF 1983 AASHTO "STANDARD SPECIFICATION FOR HIGHWAY BRIDGES" (INCLUDING INTERIMS THROUGH 1985), AND AS SUPPLEMENTED BY THE PENNA. DEPARTMENT OF TRANSPORTATION DESIGN MANUAL, PART 4, STRUCTURES (INCLUDING NOV. 1983 REVISION AND CURRENT BRIDGE DIRECTIVES.)
- PROVIDE 2" CONCRETE COVER ON REINFORCEMENT BARS EXCEPT WHERE NOTED OTHERWISE.
- CHAMFER EXPOSED CONCRETE EDGES 1"x1" EXCEPT AS NOTED.
- USE CLASS A CEMENT CONCRETE IN ALL CONSTRUCTION.
- USE GRADE 60 DEFORMED, BILLET, RAIL OR AXLE STEEL REINFORCEMENT BARS IN ACCORDANCE WITH AASHTO-M31.
- ALL WELDING TO BE DONE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE, AWS D1.1-80, AS MODIFY BY THE AASHTO STANDARD SPECIFICATION FOR WELDING OF STRUCTURAL STEEL FOR HIGHWAY BRIDGES.
- VERIFY ALL DIMENSIONS, ELEVATIONS AND GEOMETRY OF EXISTING STRUCTURE IN THE FIELD.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY DAMAGE CAUSED BY HIM TO THE EXISTING FACILITIES IN THE EXECUTION OF THE CONTRACT WORK.
- ORIGINAL STRUCTURE DRAWINGS (NO. 21453) ARE AVAILABLE UPON REQUEST AT THE DISTRICT 11-0 BRIDE UNIT OFFICE.
- MAXIMUM DESIGN FOUNDATION PRESSURE: 1.7 TON/S.F.
- EXISTING 3 TON LIMIT ON STRUCTURE WILL BE MAINTAINED DURING CONSTRUCTION.
- STRUCTURAL STEEL TO CONFORM TO ASTM-A36.

Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				

Commonwealth of Pennsylvania

DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY GLENFIELD VIADUCT GLENFIELD VIADUCT OVER EAST BEAVER STREET TEMPORARY BRIDGE SUPPORTS

RECOMMENDED 6-9-86

Wallace D Johnson

DISTRICT BRIDGE ENGINEER

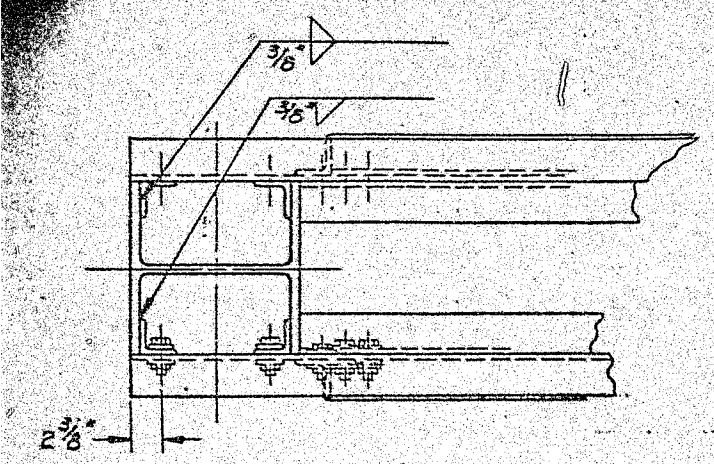
SHEET 1 OF 2

S-16754

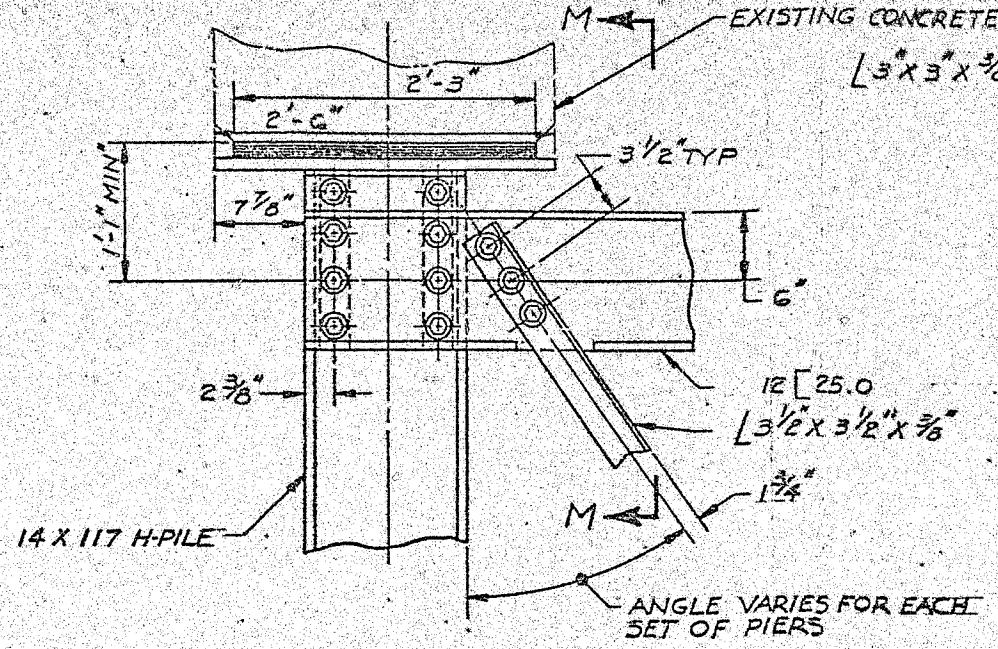
DESIGNED BY DISTRICT 11-0 BRIDGE UNIT

DRAWN BY: RWW

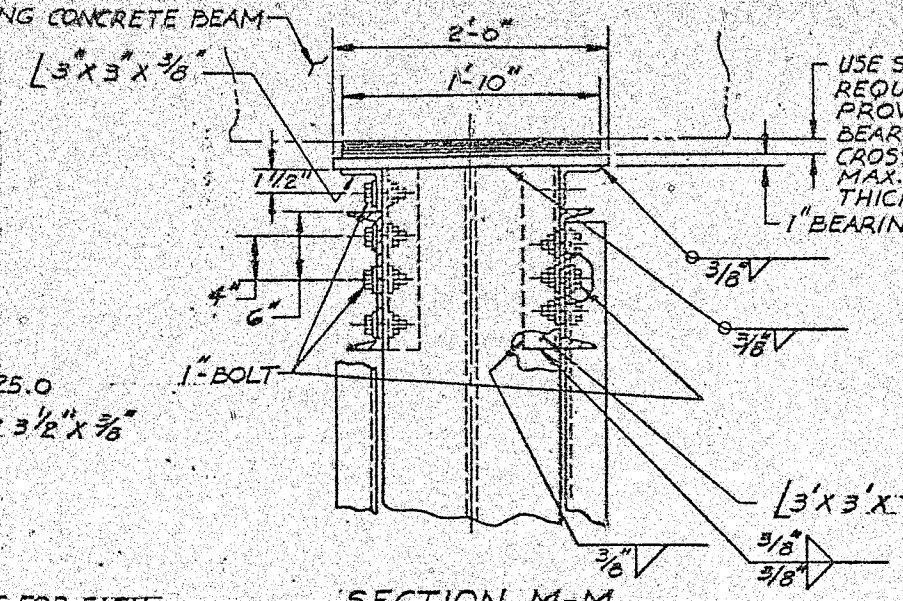
CHECKED BY: RWW



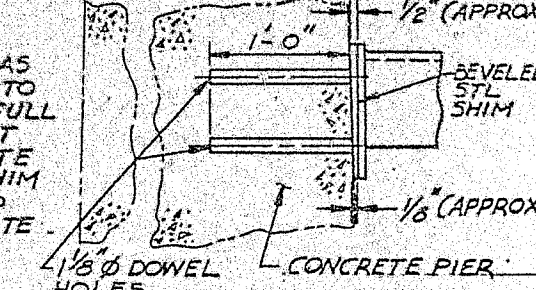
PLAN (DETAIL-E)



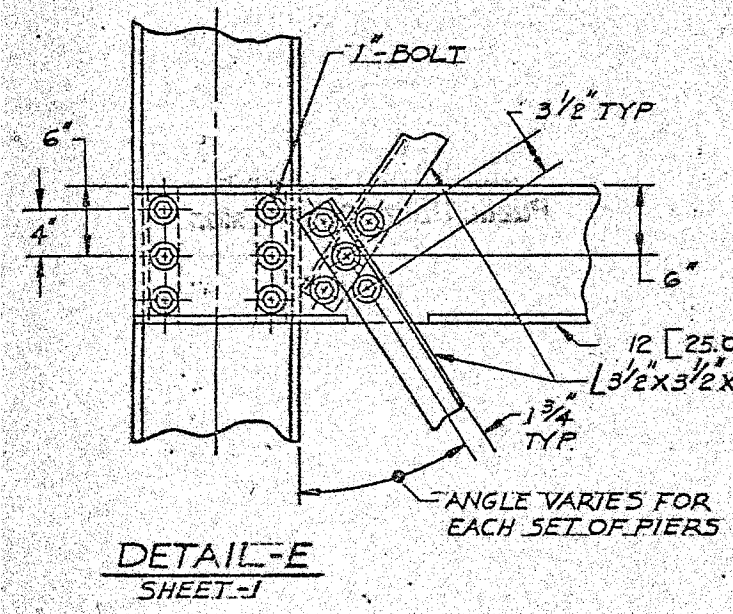
DETAIL-F
SHEET-1



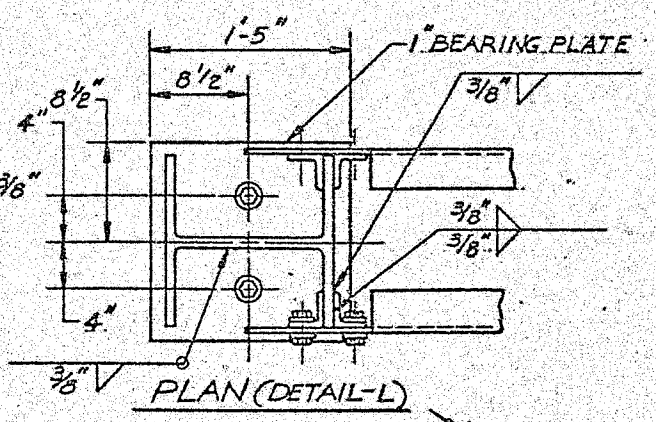
SECTION M-M

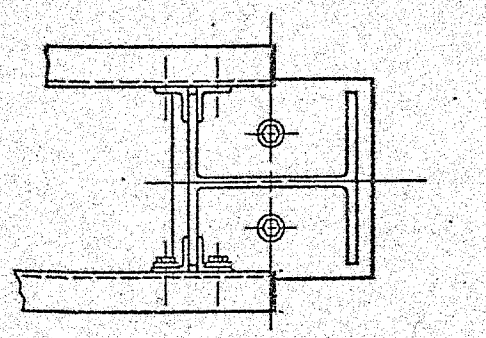


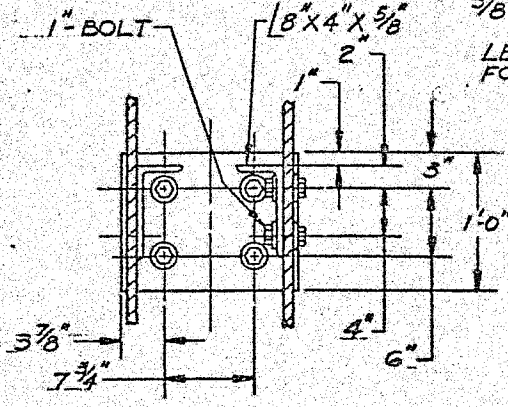
DETAIL K-K



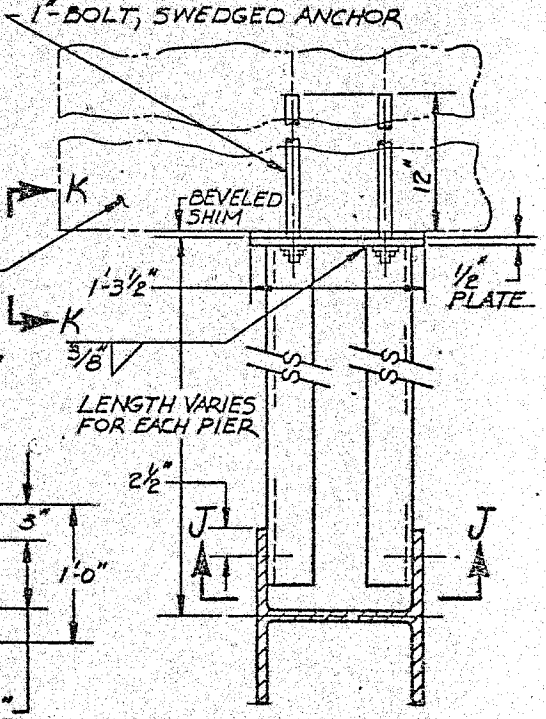
DETAIL-E
SHEET-1



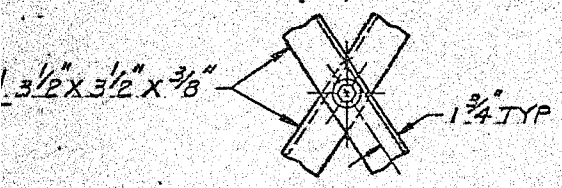




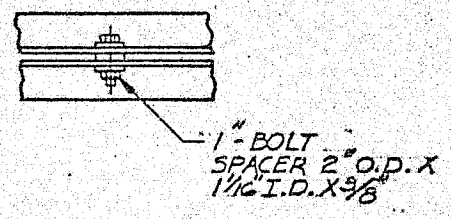
SECTION J-J

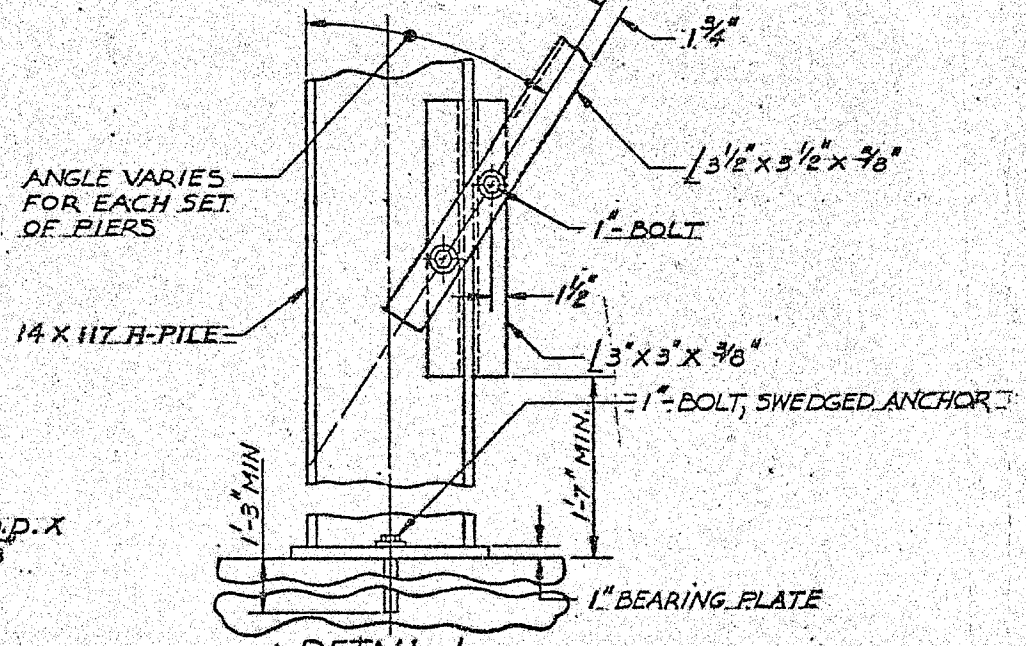


SECTION H-H
SHEET-1

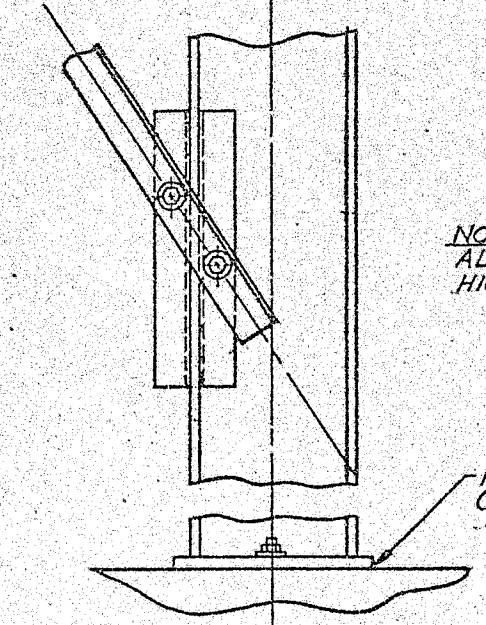


DETAIL-G
SHEET-1





DETAIL-L
SHEET-1



DETAIL-D
SHEET-1
SAME AS DETAIL-L EXCEPT OPPOSITE HAND

FABRICA PAD REQUIRED (INCIDENTAL TO ITEM 1056:0006)

NOTE:
ALL BOLTS TO BE A325 HIGH STRENGTH BOLTS

Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				

SCALE: 1/8" = 1"

DESIGNED BY DISTRICT 11-0 BRIDGE UNIT

SIGNED BY: RWW & SAN
AWN BY: LEW
ECKED BY: RWW
VIEWED BY: EAK

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT
GLENFIELD VIADUCT OVER EAST BEAVER STREET
TEMPORARY BRIDGE SUPPORTS

RECOMMENDED 6-9-86
DISTRICT BRIDGE ENGINEER

SHEET 2 OF 2
S-16754

File in ~~C-80092514~~ C-80092154

8-863068 RSH

COMMONWEALTH OF PENNSYLVANIA, DEPARTMENT OF TRANSPORTATION, Petitioner	:	IN THE COMMONWEALTH COURT OF PENNSYLVANIA
v.	:	
PENNSYLVANIA PUBLIC UTILITY COMMISSION, Respondent	:	No. 576 C.D. 1986

NOTICE OF DISCONTINUANCE

This is to notify you that the above-captioned matter has been withdrawn, discontinued and ended.

DOCKETED SEP 12 1986

Dated: September 8, 1986

DEPUTY PROTHONOTARY/CHIEF CLERK

CERTIFIED FROM THE RECORD

SEP

Deputy Prothonotary - Chief Clerk

RECEIVED SEP 10 1986 Pa. P. U. C. Law Bureau

DOCKETED SEP 2 . 1986

OS-2 (2-86) ORIGINAL

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

Harrisburg
September 22, 1986

IN REPLY REFER TO
Allegheny County
Glenfield Viaduct
Glenfield Borough
PUC. C. 80092154

DOCUMENT FOLDER

RECEIVED
SEP24 1986
SECRETARY'S OFFICE
Public Utility Commission

Mr. Jerry Rich, Secretary
Public Utility Commission
Harrisburg, PA 17120

Dear Mr. Rich:

Reference is made to Paragraph 1 of your Commission's Order issued May 8, 1986 in the above referenced proceeding.

The Department of Transportation has completed detailed construction plans for the replacement of the Glenfield Viaduct and highway approaches thereto. Attached please find the following for your Commission's review and approval:

1. Three (3) sets of the Drawings for Construction of Glenfield Viaduct, in Allegheny County.

2. Three (3) sets of the Drawings for for Traffic Control Plan.

3. Three (3) sets of the Structure Drawings for a 10 Span Steel I-Beam and Multi-Girder Bridge.

The construction contract for the above referenced work is scheduled to be let on February 21, 1987. In the interim, the Department will let a separate contract for a temporary support system to strengthen the existing structure to carry loads equivalent to sixteen (16) tons.

A copy of this letter and one (1) set of the aforementioned data are being forwarded to the following parties of record for review:

Allegheny County Commissioners, James H. McLean, Solicitor, 1200 Allegheny Bldg., Pittsburgh, PA 15219

-continue-

Albert G. Feczko, Jr., Esquire, Glenfield Borough, The Professional Office Building, 430 Blvd. of the Allies, Pittsburgh, PA 15219
Daniel F. Donovan, General Attorney, Consolidated Rail Corporation, 1138 Six Penn Center Plaza, Philadelphia, PA 19103
William L. Leonard, Vice President & General Counsel, The Bell Telephone Company of PA, One Parkway, Philadelphia, PA 19102
William Jacoby, Esquire, Columbia Gas of PA, Inc., P. O. Box 117, Columbus, Ohio 43216
Larry R. Crayne, Esquire, Duquesne Light Company, 1 Oxford Center, 301 Grant Street, Pittsburgh, PA 15219

Very truly yours,

W. J. Clements

For: William R. Moyer, P. E.
Acting Chief Engineer
Highway Administration

Attachments

RECEIVED
SEP 24 1986
SECRETARY'S OFFICE
Public Utility Commission

C-86042154

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF TRANSPORTATION

DRAWINGS FOR CONSTRUCTION OF

GLENFIELD VIADUCT

IN ALLEGHENY COUNTY

From Sta. 0+10.87 To Sta. 11+99.01 Length 1188.14 Ft. 0.225 Mi.

P.U.C.

FEDERAL PROJECT NUMBER

DISTRICT	COUNTY	TOWNSHIP	BOROUGH	ROUTE	TOTAL SHEETS
FCB 11-0	ALLEGHENY		GLENFIELD	GLENFIELD VIADUCT	10

STATE PROJECT NUMBER

SYS	L.R. or W.O.	SPUR	PHA	SECTION	DIST.	CO.
B	G L 6 5 2	0	7	0 4	1 1	1

ALSO INCLUDED:

CROSS SECTIONS (UPON REQUEST)	12 SHEETS
TRAFFIC CONTROL PLAN	4 SHEETS
STRUCTURE PLANS # S-16201	39 SHEETS

DOCKETED
SEP 25 1986

DOCUMENT FOLDER

SCALE

0 50' 100'

0 10' 20'

DESIGN DESIGNATION

ASSIFICATION	– LOCAL ROAD
ED	– 25 MPH
WIDTH	– 2'-12' LANES
WIDTH	– NONE
TH, MAXIMUM	– NONE
MINIMUM	–

TRAFFIC DATA

CURRENT A.D.T. – 700 (1985)
DESIGN YEAR A.D.T. – 980 (2005)
D.H.V. – 98
D – 50%
T – 2%

PLANS PREPARED BY
RUMMEL, KLEPPER & KAHL
CONSULTING ENGINEERS
NEW CUMBERLAND, PENNSYLVANIA

Albert R. Lessel, Jr.
Project Manager
Reg. Prof. Engineer
Dec. 17, 1985

GLENFIELD BOROUGH

APPROVED _____ 19__
MAYOR
APPROVED _____ 19__
PRESIDENT – BOROUGH COUNCIL
APPROVED _____ 19__
SECRETARY – BOROUGH COUNCIL

RECOMMENDED _____ 19__
DISTRICT ENGINEER
RECOMMENDED _____ 19__
DEPUTY SECRETARY
APPROVED _____ 19__
SECRETARY OF TRANSPORTATION
(On behalf of the Governor as well as himself)

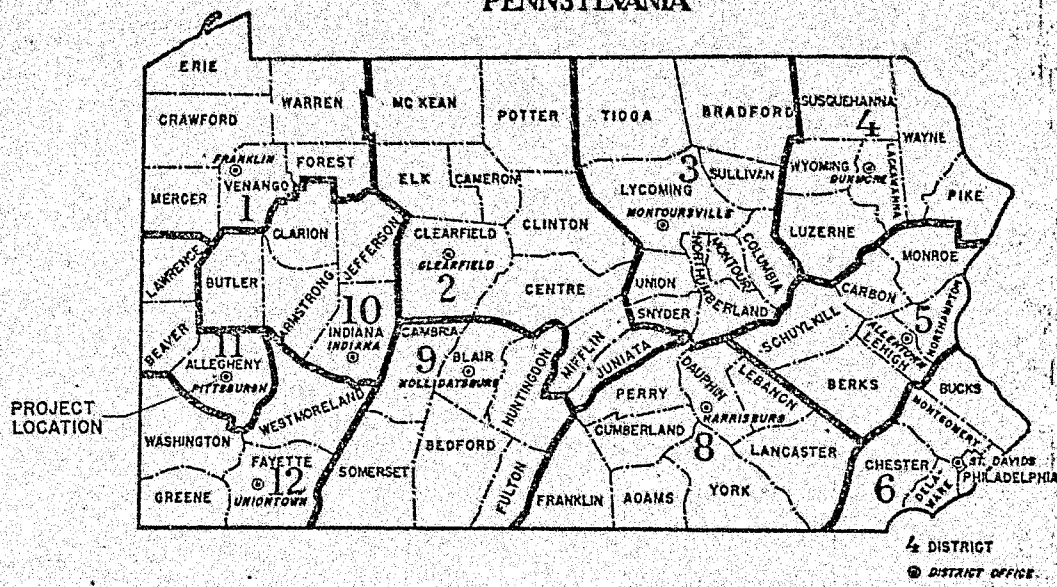
DISTRICT	COUNTY	ROUTE	SHEET
11-0	ALLEGHENY	GLENFIELD VIADUCT	2 OF 10
	GLENFIELD BOROUGH		

REVISION NUMBER	REVISIONS	DATE	BY

INDEX

DESCRIPTION	SHEET
TITLE SHEET	1
INDEX MAP	2
LOCATION MAP & TYPICAL SECTIONS	3
SPECIAL DETAILS	4
SUMMARY SHEETS	5
TABULATION SHEETS	6-8
DETAIL PLAN SHEETS	9-10
SUPPLEMENTARY PLANS	
TRAFFIC CONTROL PLAN	1-4
STRUCTURE PLANS S-16201	1-39
CROSS SECTIONS (UPON REQUEST)	1-12

PENNSYLVANIA



4 DISTRICT
⊛ DISTRICT OFFICE

TABULATION OF PROPERTY OWNERS

JAMES B. SAVAGE

JOHN J. HALLSTEIN & OEDNA M. SHIPPER

EDWARD WOODS & CAROLINE E. WOODS H/W

CYRIL E. YARAS & DEBORAH L. YARAS H/W

THOMAS STEEDLE

JOSEPH W. DEWITT & HILDA M. DEWITT H/W

VALLEY VETERANS ASSOCIATION

THOMAS MICHAEL GILMORE & PATRICIA JO GILMORE H/W

FRANCIS REICH & JOANNE REICH H/W

JAMES R. TUNNEY & MARY BERTHA TUNNEY H/W

PETER J. CERNANSKY & GAIL E. CERNANSKY H/W

JOHN A. O'NEIL & JOSEPHINE T. O'NEIL H/W

WILLIAM AUGUSTINE & VERNA AUGUSTINE H/W

GLENFIELD VOLUNTEER FIRE CO., INC.

CHARLES B. HAUSER & MARY RUTH HAUSER H/W

BOROUGH OF GLENFIELD, QUAKER VALLEY SCHOOL DISTRICT, & COUNTY OF ALLEGHENY

HARRY W. PFLUGH & ELIZABETH H. CARPT

RALPH G. FITCH & ELIZABETH FITCH H/W

FREDERICK BARONI & RUTH BARONI H/W

DEBORAH L. FITCH

COUNTY OF ALLEGHENY

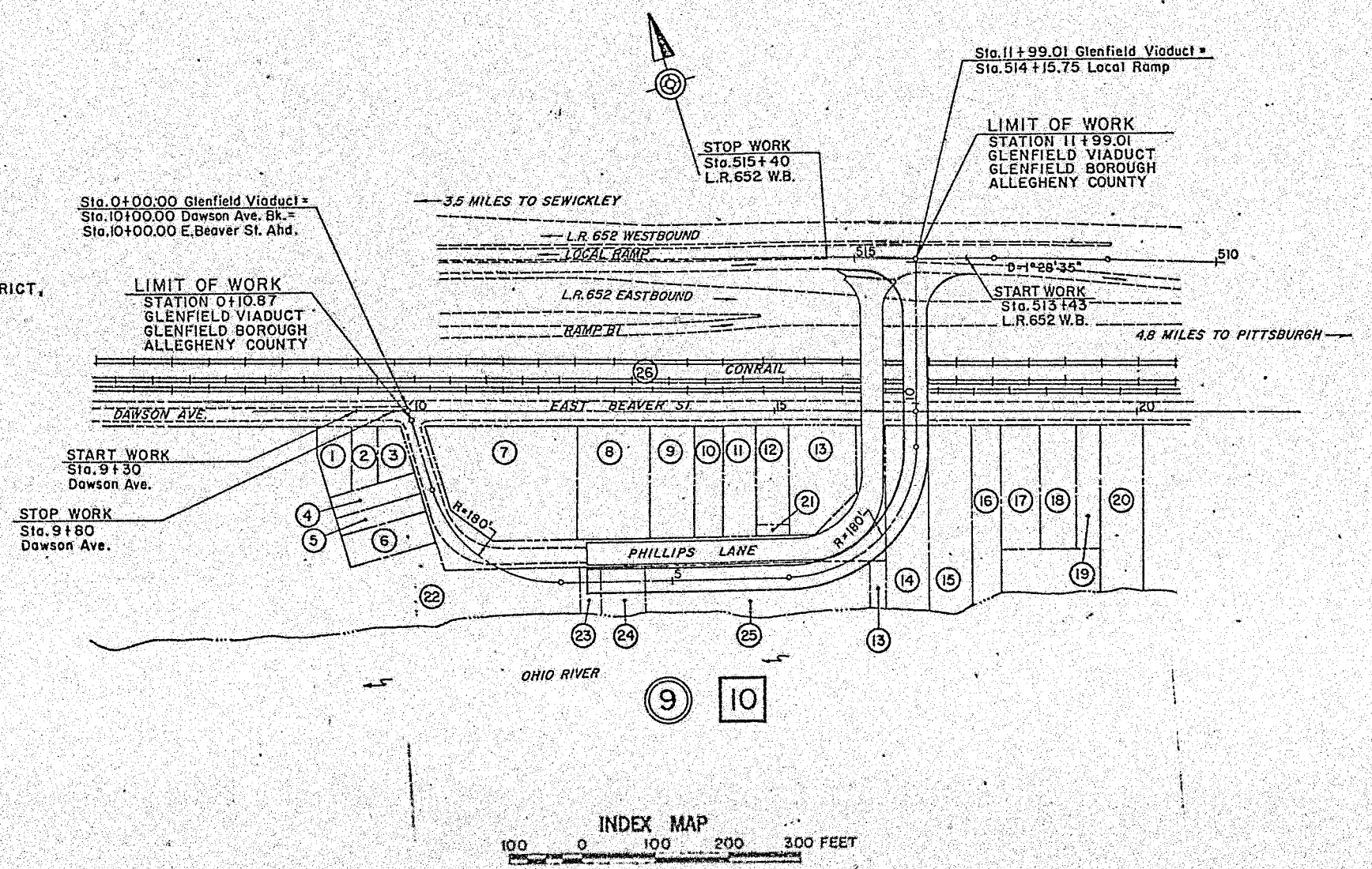
CRAIN BROS., INC.

THEODORE F. BECKERT

H. KLEINMAN, A. KRUGH, JOSEPH WATERS, F.H. ANDERSON, T.M. SHOLES, & J.P. TAYLOR

CRAIN BROS., INC.

CONRAIL



LEGEND

PLAN

PROFILE

PROPERTY IDENTIFICATION NUMBER

ILITIES

SYLVANIA
TREET
'A 15222
IILLIARD
3-3131

OF PENNSYLVANIA, INC.
LING STREET

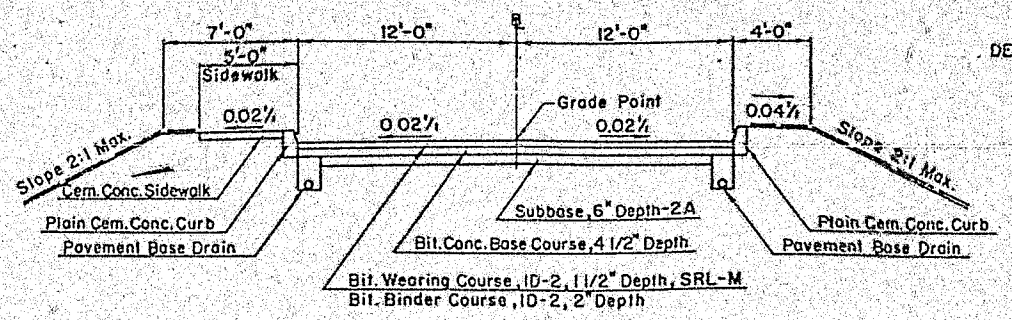
'A 15301-0610
VEBER, P.E.
6-2600

IT COMPANY
ER
REET
A 15279
) J. WIEHAGEN
03-6000

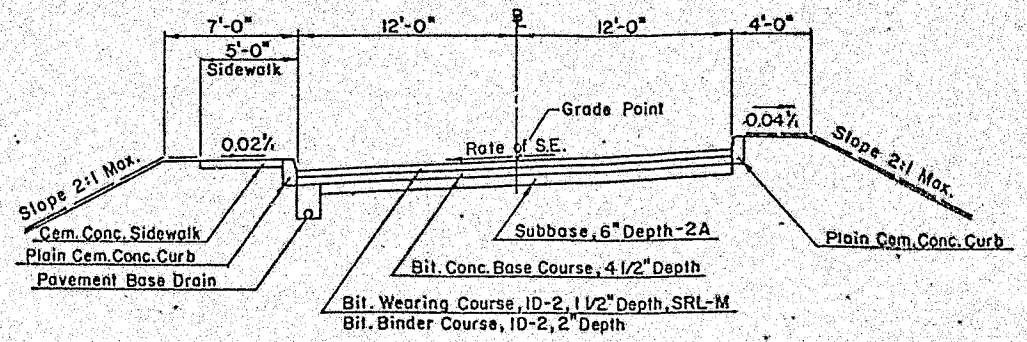
LENFIELD (WATER LINE)
D
15143
LO
I-8566

RAIL CORPORATION - CONRAIL
ET
PA 19104
LIVAN
96-3848

) (CABLE TV)
R BLVD.
15001
YAGULLI
22-5522



TANGENT SECTION



SUPERELEVATED SECTION

TYPICAL SECTIONS - ROADWAY

DETAILS, OTHER THAN THOSE INDICATED, ARE ON THE FOLLOWING STANDARD DRAWINGS:

RC-10	5-2-83	BC-301A	3-2-81
RC-11	5-2-83	BC-317A	3-2-81
RC-12	5-2-83	BC-321A	6-20-80
RC-13	5-2-83	BC-322A	6-20-80
RC-23	5-2-83	BC-331A	11-4-81
RC-28	5-2-83	BC-332B	6-21-82
RC-30	5-2-83	BC-334A	3-2-81
RC-33	5-2-83	BC-335A	11-4-81
RC-34	6-16-84	BC-336A	11-4-81
RC-64	6-16-84	BC-337A	3-2-81
RC-65	6-16-84	BC-351	7-1-70
RC-67	10-12-84	BC-352	4-1-71
RC-70	5-2-83	BC-353	4-1-71
RC-80	5-2-83	BC-354	7-1-70
RC-81	6-16-84	BC-355A	11-10-80
RC-83	9-26-84	BC-356A	11-10-80
		BC-363	10-20-70

LEGEND

——— Seeded Area, see General Notes

DISTRICT	COUNTY	ROUTE	SHEET
11-0	ALLEGHENY	GLENFIELD VIADUCT	3 OF 10
GLENFIELD BOROUGH			

REVISION NUMBER	REVISIONS	DATE	BY

GENERAL NOTES

THE LEGAL RIGHT-OF-WAY ON GLENFIELD VIADUCT IS VARIABLE BASED ON THE RIGHT-OF-WAY PLAN OF GLENFIELD VIADUCT, APPROVED BY GOVERNOR DICK THORNBURGH ON ,AND RECORDED IN THE ALLEGHENY COUNTY RECORDER OF DEEDS OFFICE.

THE DEPARTMENT RESERVES THE RIGHT TO ELIMINATE ANY OR ALL OF THIS WORK. DO NOT PERFORM WORK EXCEPT THAT WHICH IS WITHIN THE HIGHWAY RIGHT-OF-WAY UNTIL SO ORDERED IN WRITING BY THE ENGINEER.

CONSTRUCT PROJECT IN ACCORDANCE WITH SPECIFICATIONS, PUBLICATION 408, DATED 1983.

DO NOT INTERFERE WITH THE OPERATION OF ANY FIRE HYDRANT, FIRE CALL BOX OR POLICE CALL BOX.

THIS IS A FEDERAL-AID PROJECT AND AS SUCH IS SUBJECT TO INSPECTION BY REPRESENTATIVES OF THE FEDERAL HIGHWAY ADMINISTRATION AND THE BOROUGH OF GLENFIELD.

TEMPORARY AREA (S) REQUIRED UNTIL THE CONSTRUCTION OR WORK INDICATED IS COMPLETED, UNLESS SOONER REVERTED IN WRITING BY THE DEPARTMENT.

SURVEY IS BASED ON U.S.C.& G.S. DATUM.

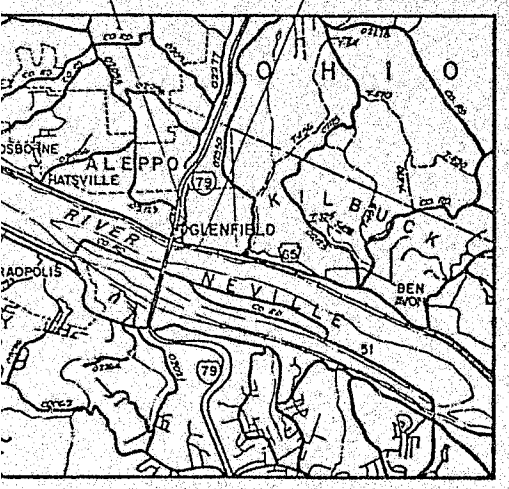
HORIZONTAL CONTROL IS TIED TO L.R.652.

ALL CURVE DATA IS BASED ON THE ARC DEFINITION UNLESS OTHERWISE INDICATED.

SLOPES 3:1 OR STEEPER TO BE SEEDED WITH FORMULA C SEED MIXTURE; SLOPES FLATTER THAN 3:1 TO BE SEEDED WITH FORMULA D MIXTURE.

WORK
0.87
D VIADUCT
D BORO
NY CO.

LIMIT OF WORK
STA. 11+99.01
GLENFIELD VIADUCT
GLENFIELD BORO
ALLEGHENY CO.



LOCATION MAP

0 1 2 3 MILES

LEGEND

——— STATE HIGHWAYS

– – – – – TOWNSHIP ROADS

NO DETOUR

TABULATION OF OVERALL & CONSTRUCTION LENGTH

Sta. 0+10.87 to Sta. 11+99.01 Length 1188.14 Ft. 0.225 Miles

LIST OF EQUALITIES

NONE

LEGEND - EROSION CONTROL DEVICES

—SF——SF— SILT BARRIER FENCE

ROCK LINING

EARTHWORK SUMMARY - ENTIRE PROJECT

THE FOLLOWING INFORMATION ON THE ESTIMATED AMOUNTS OF EARTHWORK HAS BEEN USED BY THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION IN ITS PRELIMINARY ESTIMATE FOR THIS PROJECT AND SHALL NOT BE TAKEN OR USED AS A WAIVER OF ANY PROVISIONS OF SPECIFICATIONS AND CONTRACTS. QUANTITIES SHOWN ARE APPROXIMATE.

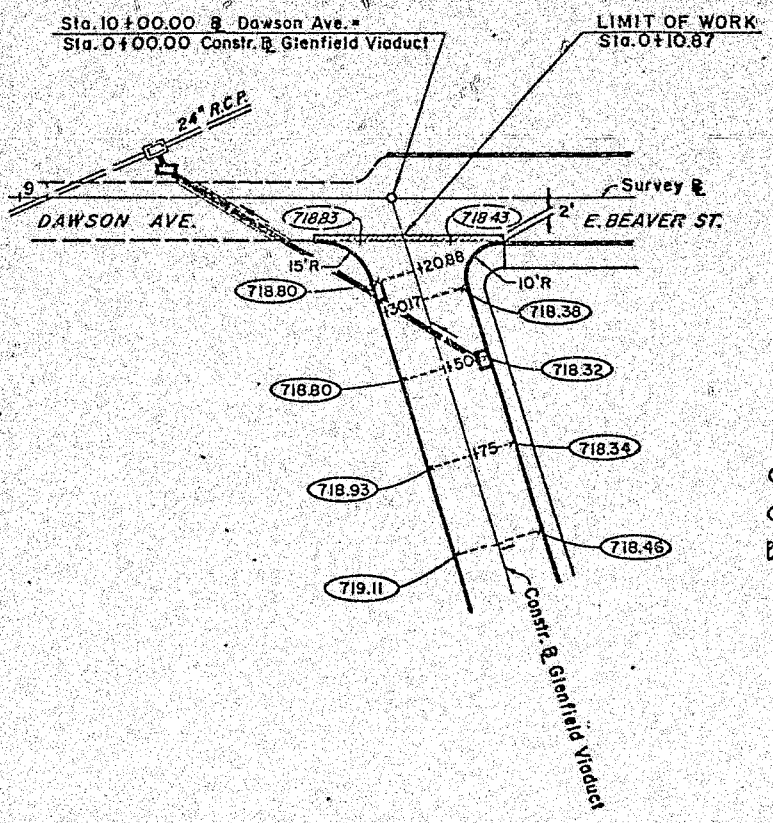
CU. YDS. OF EXCAVATION					CUBIC YDS. OF COMPLETED EMBANKMENT *	CUBIC YDS. OF SELECT BORROW EXC. STR. BKFILL
CLASS 1	CLASS 1B	CLASS 2	CLASS 3	CLASS 4		
492	87	66	2404 **	108	644	1840 **

* Includes all borrow items
** Included in L.S. structure items

TRACED BY
FINAL BY

DISTRICT	COUNTY	ROUTE	SHEET
11-0	ALLEGHENY	GLENFIELD VIADUCT	4 OF 10

REVISION NUMBER	REVISIONS	DATE	BY

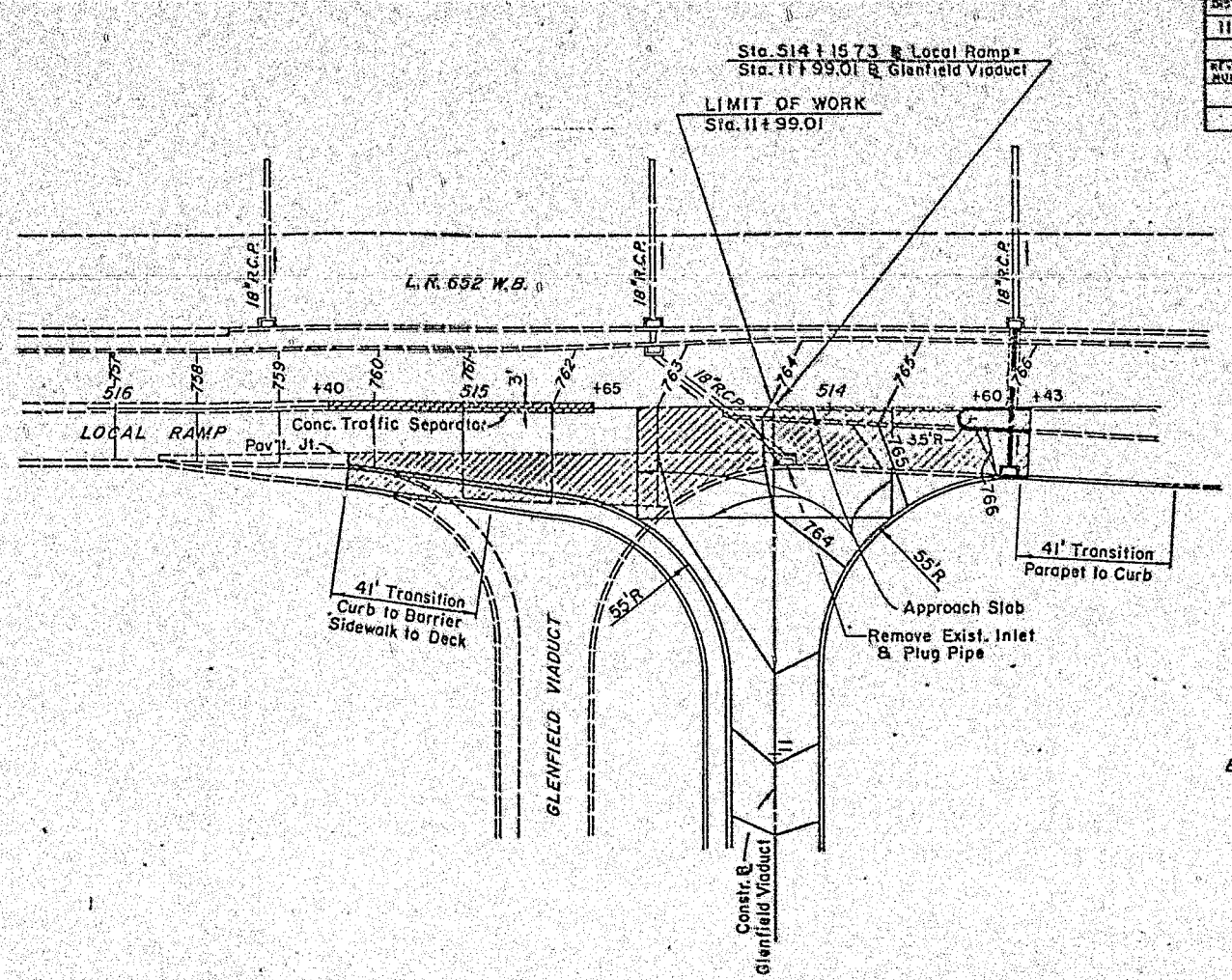


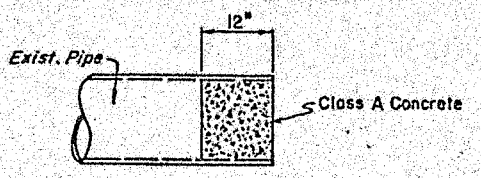
LEGEND

(100.00) Proposed Grade Elevation

(100.00) Existing Pav't. Elevation

Pavement Removal

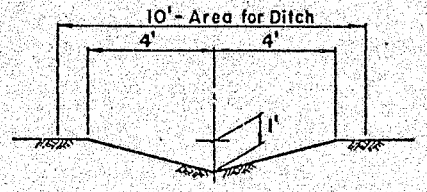




CONCRETE PIPE PLUG DETAIL

GLENFIELD VIADUCT INTERSECTION WITH DAWSON AVE.

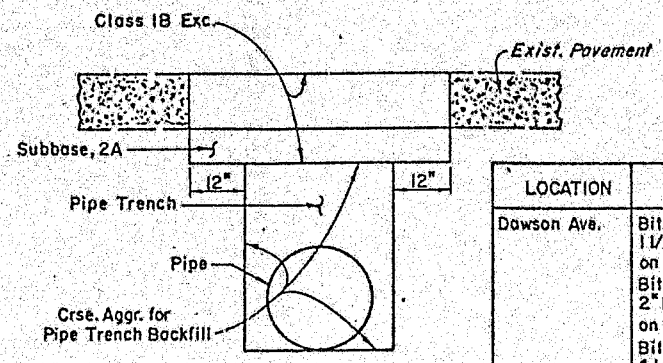
SCALE: 1"=25'



OUTLET DITCH FOR STRUCTURE DRAINAGE
CLASS 2 EXC.

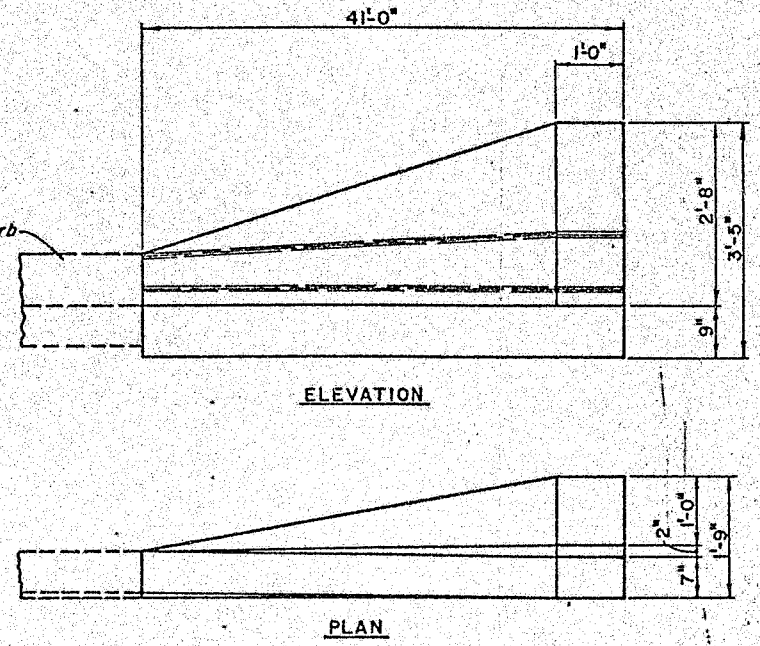
GLENFIELD VIADUCT INTERSECTION WITH L.R. 652 LOCAL RAMP

SCALE: 1"=25'



LOCATION	PAVEMENT	SUBBASE, 2A
Dawson Ave.	Bit. Wearing Crse., 1 1/2" Depth, SRL-M on Bit. Binder Crse. ID-2, 2" Depth on Bit. Conc. Base Crse., 4 1/2" Depth	6"
Local Ramp	10" H.E.S. R.C.C. Pav't.	9"

BASE REPLACEMENT DETAIL



TYPE I CONCRETE BARRIER
TRANSITION TO CURB
ITEM NO. 2623-0001

TRACED BY
FINAL BY

11-0	ALLEGHENY	GLENFIELD VIADUCT	5 OF 10
	GLENFIELD BOROUGH		

KEY SHEET NUMBER	REVISIONS	DATE	BY

SUMMARY SHEET

ITEM NO.	QTY.	UNIT	DESCRIPTION	ALT.	TAB ON SHEET
0201-0001	–	L.S.	CLEARING & GRUBBING		NO TAB
0203-0001	492	C.Y.	CLASS I EXCAVATION		6,7
0203-0004	87	C.Y.	CLASS IB EXCAVATION		6
0204-0001	66	C.Y.	CLASS 2 EXCAVATION		6,7
0204-0150	108	C.Y.	CLASS 4 EXCAVATION		6
0305-0004	969	S.Y.	BIT. CONC. BASE COURSE, 4 1/2" DEPTH		6
0350-0001	955	S.Y.	SUBBASE, 6" DEPTH		6
0350-0004	156	S.Y.	SUBBASE, 9" DEPTH		6
0420-0323	969	S.Y.	BIT. WEARING COURSE, 1 1/2" DEPTH, SRL-M		6
0421-0202	969	S.Y.	BIT. BINDER COURSE, ID-2, 2" DEPTH		6
2501-0020	13	S.Y.	PL. CEM. CONC. PAV'T., 4" DEPTH *		7
0501-0132	156	S.Y.	H.E.S. PL. CEM. CONC. PAV'T., 10" DEPTH		6
0503-0001	493	S.Y.	PROTECTIVE COATING FOR CEM. CONC. PAVEMENT & SHOULDERS (a)		6
0505-0001	327	S.Y.	BRIDGE APPROACH SLAB		7
0601-0022	190	L.F.	18" R.C.C. PIPE, CLASS III		6
0601-5400	54	C.Y.	CRSE. AGGR. FOR PIPE TRENCH BACKFILL		6
0605-2001	3	EA.	TYPE C INLET		6
0605-2060	2	EA.	TYPE M INLET		6
0608-0001	–	L.S.	MOBILIZATION		NO TAB
0608-0002	–	L.S.	INSPECTORS FIELD OFFICE & INSPECTION FACILITIES, TYPE B		NO TAB

ITEM NO.	QTY.	UNIT	DESCRIPTION	ALT.	TAB ON SHEET
0610-7000	346	L.F.	PAVEMENT BASE DRAIN		6
0620-0402	1	EA.	TERMINAL SECTION, BRIDGE CONN.		7
0620-0500	25	L.F.	RESET EXISTING GUIDE RAIL		7
0620-0502	136	L.F.	REMOVE EXIST. GUIDE RAIL (DEPART. PROPERTY)		7
0627-0001	715	L.F.	TEMPORARY CONC. BARRIER		A-2
0627-0011	3	EA.	TEMPORARY END TRANSITION		A-2
0628-0001	175	L.F.	RESET TEMP. CONC. BARRIER		A-2
0628-0010	1	EA.	RESET TEMP. END TRANSITION		A-2
0629-0101	25	S.Y.	CONC. TRAFFIC SEPARATOR		7
0630-0001	608	L.F.	PL. CEM. CONC. CURB		7
0677-0001	11	C.Y.	SELECTED MATERIAL SURFACING		7
0676-0001	179	S.Y.	CEMENT CONCRETE SIDEWALK		7
0686-0001	–	L.S.	ENGINEERING STAKES		NO TAB
0802-0001	360	C.Y.	TOPSOIL, FURNISHED & PLACED		7
0804-0012	4	LB.	SEEDING & SOIL SUPPLEMENT - FORMULA C		7
0804-0013	61	LB.	SEEDING & SOIL SUPPLEMENT - FORMULA D		7
0804-0021	50	LB.	TEMPORARY SEEDING		7
0805-0022	2	TON	MULCHING, HAY		7
0845-0001	–	–	UNFORESEEN PROJECT WATER POLLUTION CONTROL (SOIL EROSION) (a)		NO TAB
0850-0004	15	S.Y.	ROCK LINING, R-5		7
0865-0001	1000	L.F.	SILT BARRICADE FENCE, 18" HEIGHT		7
0901-0001	–	L.S.	MAINTENANCE & PROTECTION OF TRAFFIC DURING CONSTRUCTION *		NO TAB
0901-0025	1	TON	CALCIUM CHLORIDE		A-2
0901-0051	–	L.S.	RAILROAD CONSTRUCTION INSPECTION AND COORDINATION SERVICES (a)		NO TAB
0901-0201	1	EA.	ARROW BOARD		A-2
1001-0010	1	C.Y.	CLASS A CEM. CONCRETE		6
1999-9999	–	HR.	TRAINEES * (a)		NO TAB
1001-0020	26	C.Y.	CLASS C CEM. CONCRETE		

ITEM NO.	QTY.	UNIT	DESCRIPTION	ALT.	TAB ON SHEET
EITHER 2000-0001	–	L.S.	BRIDGE STRUCTURE, AS DESIGNED, S-1620 *		8
AND 1005-1003	2040	L.F.	STEEL BEAM BEARING PILES, HP 12 X 53		8
AND 1005-1004	3988	L.F.	STEEL BEAM BEARING PILES, HP 12 X 74		8
AND 1005-1153	41	EA.	STEEL BEAM PILE TIP REINFORCEMENT, HP 12 X 53		8
AND 1005-1154	116	EA.	STEEL BEAM PILE TIP REINFORCEMENT, HP 12 X 74		8
OR 2000-0002	–	L.S.	STEEL BRIDGE STRUCTURE		8
AND 1005-1003	(_____)	L.F.	STEEL BEAM BEARING PILES, HP 12 X 53		8
AND 1005-1004	(_____)	L.F.	STEEL BEAM BEARING PILES, HP 12 X 74		8
AND 1005-1153	(_____)	L.F.	STEEL BEAM PILE TIP REINFORCEMENT, HP 12 X 53		8
AND 1005-1154	(_____)	L.F.	STEEL BEAM PILE TIP REINFORCEMENT, HP 12 X 74		8
OR 2000-0003	–	L.S.	CONCRETE BRIDGE STRUCTURE		8
AND 1005-1003	(_____)	L.F.	STEEL BEAM BEARING PILES, HP 12 X 53		8
AND 1005-1004	(_____)	L.F.	STEEL BEAM BEARING PILES, HP 12 X 74		8
AND 1005-1153	(_____)	L.F.	STEEL BEAM PILE TIP HP 12 X 53		8
AND 1005-1154	(_____)	L.F.	STEEL BEAM PILE TIP HP 12 X 74		8
1018-0001	–	L.S.	REMOVE EXISTING BRIDGE *		NO TAB
2623-0001	3	EA.	TYPE I CONCRETE BARRIER TRANSITION TO CURB *		7
2901-0001	200	HR.	OFF-DUTY UNIFORMED POLICE OFFICERS *		A-2
2901-0002	200	S.F.	CONSTRUCTION WARNING SIGNS, AS DIRECTED *		A-2
2901-0003	85	S.Y.	TEMPORARY PAVEMENT *		A-2
0901-0040	6	EA.	FURNISH TUBULAR MARKER		A-2
0901-0041	6	EA.	INSTALL TUBULAR MARKER		A-2
0901-0042	6	EA.	REMOVE TUBULAR MARKER		A-2

A – TRAFFIC CONTROL PLAN

* SPECIAL PROVISION
(a) PREDETERMINED PRICE

DISTRICT	COUNTY	ORIGINAL	SHEET NO.
11-0	ALLEGHENY	GLENFIELD VIADUCT	9 OF 10
	GLENFIELD BOROUGH		

REVISION NUMBER	REVISIONS	DATE	BY

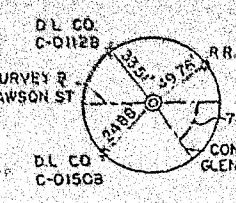
75
to 7+90 Survey ℄ Glenfield Viaduct
In Rim Of Manhole

B.M.-Elev. 716.98
21.4' Rt. Sta. 16+55 East Beaver St. ℄
Top Of Bolt On Fire Hydrant

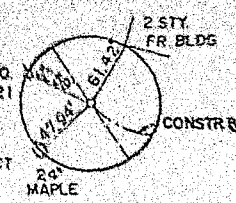
B.M.-Elev. 765.70
23.5' Lt. Sta. 514+35.58 Local Ramp ℄
Penn. D.O.T. Standard Disk Set In Top Of
N.E. Wingwall Of Glenfield Viaduct

B. SAVAGE
HALLSTEIN & OEDNA M. SHIPPER
WOODS & CAROLINE E. WOODS H/W
E. YARAS & DEBORAH L. YARAS H/W
S STEEDLE
W. DEWITT & HILDA M. DEWITT H/W

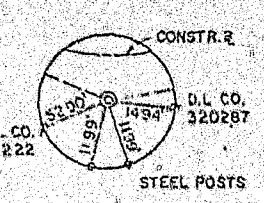
(7) VALLEY VETERANS ASSOCIATION
(8) THOMAS MICHAEL GILMORE & PATRICIA JO GILMORE H/W
(9) FRANCIS REICH & JOANNE REICH H/W
(10) JAMES R. TUNNEY & MARY BERTHA TUNNEY H/W
(11) PETER J. CERNANSKY & GAIL E. CERNANSKY H/W
(12) JOHN A. O'NEIL & JOSEPHINE T. O'NEIL H/W



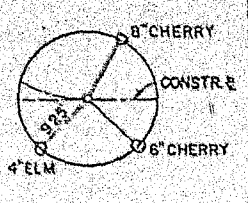
P.O.T. Sta. 10+00.00 ℄ Dawson Ave.
P.O.T. Sta. 0+00.00 Constr. ℄ Glenfield Viaduct



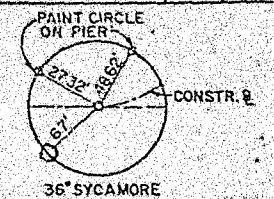
P.C. Sta. 1+13.63



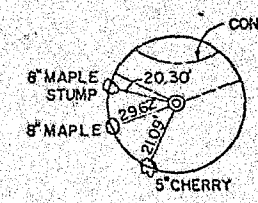
P.I. Sta. 2+49.99
Δ= 105°42'33"



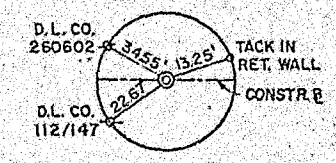
P.T. Sta. 3+47.02



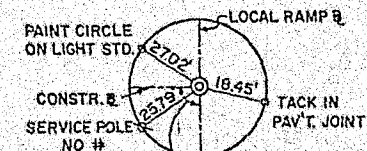
P.C. Sta. 6+59.03



P.I. Sta. 8+37.34
Δ= 90°34'20"



P.O.T. Sta. 9+88.80



P.O.T. Sta. 11+99.01 Constr. ℄ Glenfield Viaduct = P.O.T. Sta. 514+15.73 Local Ramp ℄

GLENFIELD VIADUCT
P.I. Sta. 2+49.99
Δ=74°17'27" Lt.
D=31°49'51.6"
T=136.36'
L=233.39'
R=180.00'
E=45.54'
Superelevate = 0.03%
P.C. Sta. 1+13.63
P.T. Sta. 3+47.02

GLENFIELD VIADUCT
P.I. Sta. 8+37.24
Δ=89°25'40" Lt.
D=31°49'51.6"
T=178.21'
L=280.95'
R=180.00'
E=73.30'
Superelevate = 0.03%
P.C. Sta. 6+59.03
P.T. Sta. 9+39.98

P.O.T. Sta. 0+00.00 Constr. ℄ Glenfield Viaduct =
P.O.T. Sta. 10+00.00 Dawson Avenue

FOR DETAILS OF INTERSECTION SEE SHEET 4

STOP WORK
Sta. 515+40
L.R. 652 W.B.

START WORK
Sta. 9+30
Dawson Ave.

START WORK
Sta. 513+43
L.R. 652 W.B.

L.R. 652 WESTBOUND
LOCAL RAMP N73°50'33.1"W 517 516 515 16"RCP 514 513 512 511
(Conc.)
L.R. 652 EASTBOUND
RAMP B1

LIMIT OF WORK
STA. 0+10.87
GLENFIELD VIADUCT
GLENFIELD BOROUGH
ALLEGHENY COUNTY

LIMIT OF WORK
STA. 11+99.01
GLENFIELD VIADUCT
GLENFIELD BOROUGH
ALLEGHENY COUNTY

18"RCP
18"RCP
18"RCP
89°58'40"
18"PIPE
Light Std.
Guy Pole
DL. 260603

Legal Right-Of-Way Line For Limited Access
Legal Right-of-Way Line
Legal Right-of-Way Line for Aerial Easement
CONRAIL
GLENFIELD VIADUCT
N16°08'09.9"E
S73°18'56.2"E
S73°10'10.1"

DAWSON AVE.
EAST BEAVER ST.
Bell System M.H.
16"Gas Line
4"Gas Line
Conc Walk
Gas Marker D.L. Co. 112/153
Gravel
Metal Shed
Legal Right-of-Way Line
D.L. Co. 4/221
D.L. Co. 4/222
Gravel Dr.
Hedge
42" Maple
Temporary Area for Construction
U.S. Harbor Line Legal Right of Way
D.L. Co. 320287
D.L. Co. 320289
D.L. Co. 320288
D.L. Co. 320290
Conc. Steps
Foot Bridge
Platform for Elect. Motors & Switch Boxes
Temporary Construction Area (Ditch)
Legal Right-of-Way Line
Survey & Constr. ℄
S74°26'13.1"E
Svc. Pole
18"PIPE
S.F.
Metal Bldg.
Fr. Shed
Septic Tank
Drain Field
Temporary Area for Construction
Fr. Gar.
Blk. Gar.
Gravel Drive
Hedge
18" Apple
48" Triple Maple
36" Maple
36" Twin Maple
8" Apple
30" Maples
30" Maple
Trash Bin
Aban. Poles
Legal Right-of-Way Line
PHILLIPS LANE (Brick)
(Mac.)
P.C.
P.T.
Legal Right-of-Way Line
Legal Right-of-Way Line for Aerial Easement

OHIO RIVER
ROCK LINING
S=4 W=2 :
L=12'
V=3.5 F.P.S.

The Aerial Easement Acquired Between Stations 8+07 And 10+80.38 Includes A Surface Easement Unlimited In Vertical Dimension For The Accommodation Of Piers And Other Appurtenances Plus A Temporary Area For Construction And For Storage Of Materials During Construction.

(21) COUNTY OF ALLEGHENY
(22) CRAIN BROS., INC.
(23) THEODORE F. BECKERT
(24) H. KLEINMAN, A. KRUGH, JOSEPH WATERS, F.H. ANDERSON, T.M. SHOLES, & J.P. TAYLOR
(25) CRAIN BROS., INC.

(13) WILLIAM AUGUSTINE & VERNA AUGUSTINE H/W
(14) GLENFIELD VOLUNTEER FIRE CO., INC.
(15) CHARLES B. HAUSER & MARY RUTH HAUSER H/W
(16) BOROUGH OF GLENFIELD, QUAKER VALLEY SCHOOL DISTRICT, & COUNTY OF ALLEGHENY
(17) HARRY W. PFLUGH & ELIZABETH H. CARPT
(18) RALPH G. FITCH & ELIZABETH FITCH H/W
(19) FREDERICK BARONI & RUTH BARONI H/W
(20) DEBORAH L. FITCH

P.O.T. Sta. 9+88.80 Constr. ℄ Glenfield Viaduct =
P.O.T. Sta. 16+96.67 East Beaver St. STREET

FOR PROFILE, SEE SHEET 10

TRACED BY
PLANE BY

GLENFIELD BOROUGH			
REVISION NUMBER	REVISIONS	DATE	BY

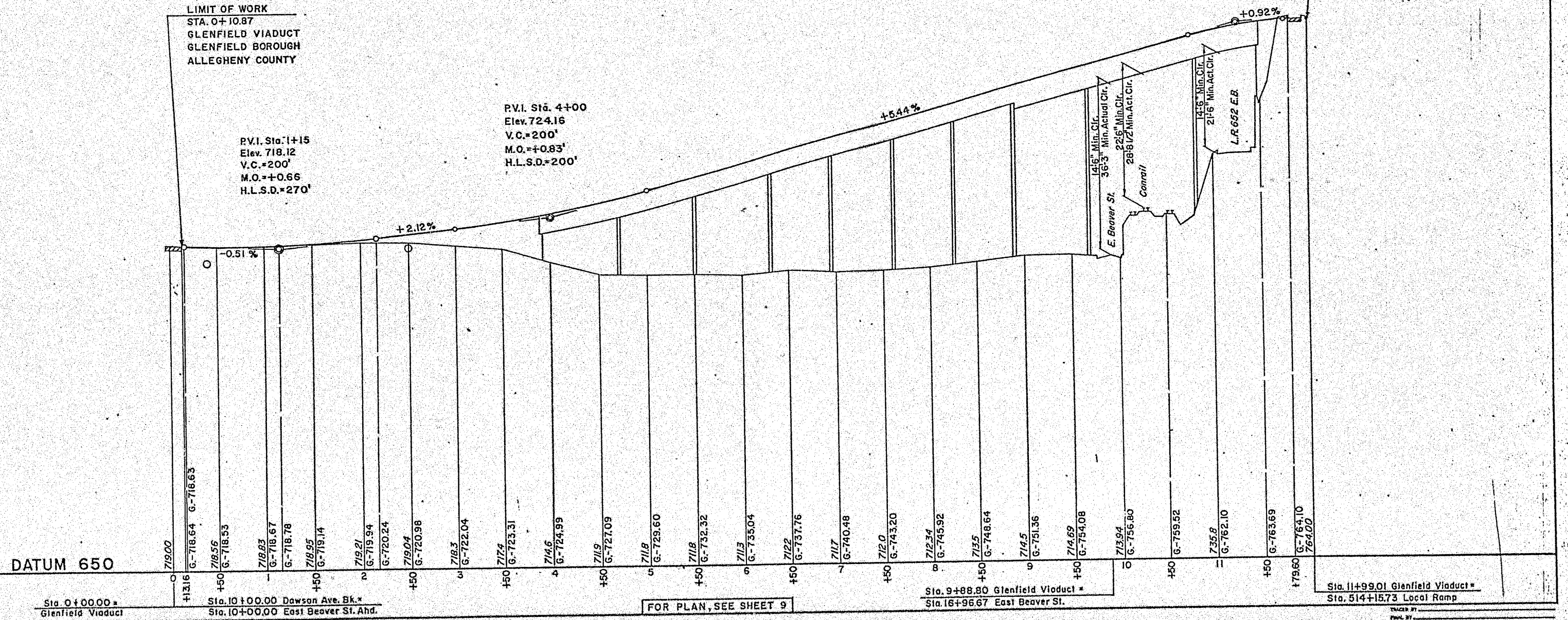
LIMIT OF WORK
STA. 0+10.87
GLENFIELD VIADUCT
GLENFIELD BOROUGH
ALLEGHENY COUNTY

P.V.I. Sta. 1+15
Elev. 718.12
V.C.=200'
M.O.=+0.66
H.L.S.D.=270'

P.V.I. Sta. 4+00
Elev. 724.16
V.C.=200'
M.O.=+0.83'
H.L.S.D.=200'

P.V.I. Sta. 11+25
Elev. 763.60
V.C.=100'
M.O.=-0.57'
STOP CONDITION

LIMIT OF WORK
STA. 11+99.01
GLENFIELD VIADUCT
GLENFIELD BOROUGH
ALLEGHENY COUNTY



Sta. 0+00.00 = Glenfield Viaduct

Sta. 10+00.00 Dawson Ave. Bk. = Sta. 10+00.00 East Beaver St. Ahd.

FOR PLAN, SEE SHEET 9

Sta. 9+88.80 Glenfield Viaduct = Sta. 16+96.67 East Beaver St.

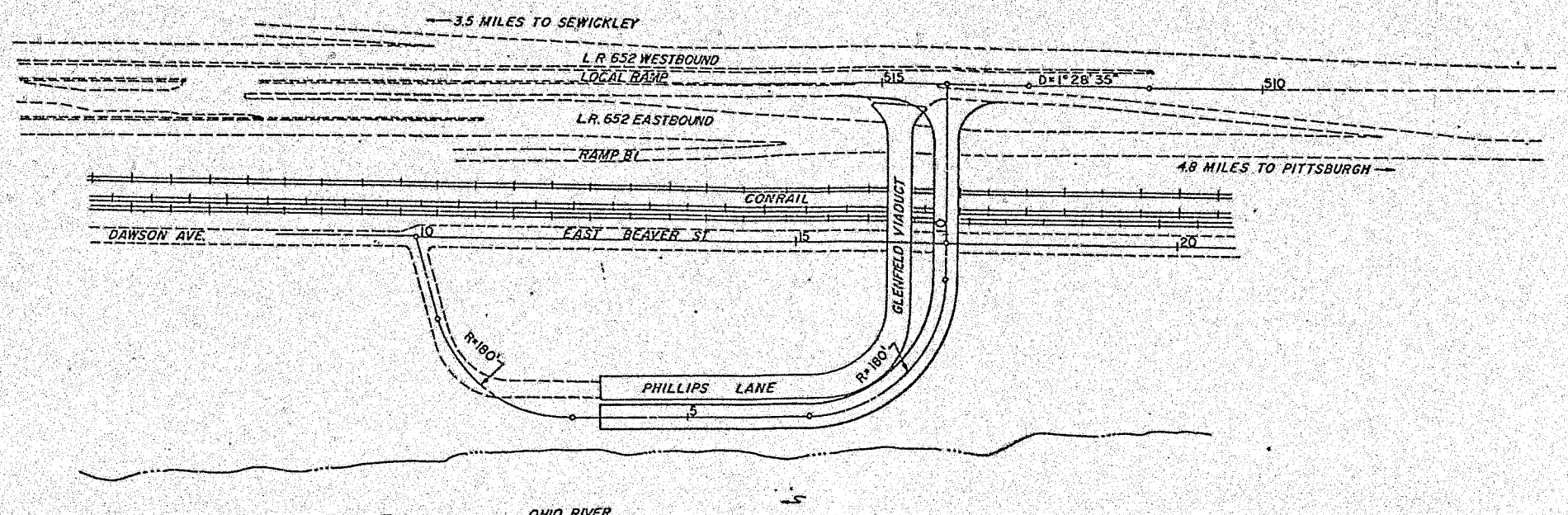
Sta. 11+99.01 Glenfield Viaduct = Sta. 514+15.73 Local Ramp

TRACED BY
PROV. BY

DRAWINGS FOR TRAFFIC CONTROL PLAN

DISTRICT	COUNTY	ROUTE	SHEET
11-0	ALLEGHENY	GLENFIELD VIADUCT	1 OF 4
	GLENFIELD BOROUGH		

REVISION NUMBER	REVISIONS	DATE	BY



DOCKETED
SEP 25 1986

DOCUMENT FOLDER

GENERAL NOTES

THIS WORK CONSISTS OF THE MAINTENANCE OF TRAFFIC AND THE PROTECTION OF THE TRAVELING PUBLIC APPROACHING THE CONSTRUCTION AREA AND WITHIN THE LIMITS OF CONSTRUCTION.

THE CONTRACTOR FURNISHES, ERECTS, PLACES AND MAINTAINS TRAFFIC CONTROL DEVICES AND MAINTAINS TRAFFIC DURING HOURS OF THE CONSTRUCTION AND AT ALL OTHER TIMES IN ACCORDANCE WITH THE METHODS INDICATED ON THESE DRAWINGS, AND,

1. THE SPECIAL PROVISIONS OF THE CONTRACT.
2. PA CODE, TITLE 67, CHAPTER 203, WORK ZONE TRAFFIC CONTROL.
3. PA CODE, TITLE 67, CHAPTER 211, OFFICIAL TRAFFIC CONTROL DEVICES.
4. PDT PUBLICATION NO. 35, APPROVED CONSTRUCTION MATERIALS (BULLETIN 15).
5. PDT PUBLICATION NO. 408, SPECIFICATIONS.

IMMEDIATELY UPON COMPLETION OF THE WORK, REMOVE TRAFFIC CONTROL DEVICES UNLESS OTHERWISE SPECIFIED IN THE SPECIAL PROVISIONS THEY ARE THE CONTRACTORS PROPERTY. THE DEPARTMENT IS TO REMOVE ANY TRAFFIC CONTROL DEVICES ERECTED BY DEPARTMENT FORCES.

PLACE ALL TRAFFIC CONTROL DEVICES FOR INSPECTION BY THE DISTRICT CONSTRUCTION ENGINEER OR HIS REPRESENTATIVE BEFORE WORK BEGINS.

COVER OR REMOVE FROM SIGHT ALL SIGNS NOT IN USE.

THIS TRAFFIC CONTROL PLAN DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY AS SPECIFIED IN SECTION 901.3 (a) OF PUBLICATION NO. 408.

LOCATION OF ALL TRAFFIC CONTROL DEVICES ARE APPROXIMATE. FINAL LOCATION TO BE ESTABLISHED IN THE FIELD.

TRAFFIC CONTROL DEVICES SHOWN IN THE PLANS ARE NOT TO SCALE.

DISTRICT	COUNTY	ROUTE	SHEET
11-0	ALLEGHENY	GLENFIELD VIADUCT	2 OF 4
	GLENFIELD BOROUGH		

REVISION NUMBER	REVISIONS	DATE	BY

TABULATION OF TRAFFIC CONTROL DEVICES

FOR INFORMATION ONLY

LOCATION	W3-1-1 STOP AHEAD 48"X48"	W4-2L PAV'T. TRANS.-LT. LANE ENDS 48"X48"	W20-1 ROAD CONSTRUCTION 60"X60"	W20-5-1 LEFT LANE CLOSED 48"X48"		W20-7a FLAGGER SYMBOL 48"X48"		W30-1-6 AHEAD	W30-1-5 1 MILE	W30-1-4 1/2 MILE	W30-1-3 1500 FT.	W30-1-2 1000 FT.	W20-8 ARROW SIGN 30"X30"	W13-1 ADVISORY SIGN 30"X30"	R3-1 NO RIGHT TURN SIGN 24"X24"	R1-1 STOP SIGN 48"X48"	M4-5 "TO" SIGN 24"X12"	M1-6 ROUTE MARKER 24"X24"	M3-3 "SOUTH" SIGN 24"X12"	M6-1 90° TURN MARKER 21"X15"	SPECIAL- U-TURN SIGN 24"X24"	G20-2 END CONSTRUCTION 60"X24"	TEMP. REMOVABLE PAV'T MARKING TAPE (4" WHITE)	TYPE B FLASHER	TYPE III BARRICADE	APPROVED DRUM W/TYPE C LIGHT	TEMP. REMOVABLE PAV'T MARKING TAPE (4" YELLOW)		TEMPORARY CONCRETE BARRIER	TEMPORARY END TRANSITION	RESET TEMP. CONCRETE BARRIER	RESET TEMP. END TRANSITION	MAINTENANCE & PROTECTION OF TRAFFIC DURING CONSTRUCTION	CALCIUM CHLORIDE	FURNISH TUBULAR MARKERS	INSTALL TUBULAR MARKERS	REMOVE TUBULAR MARKERS	ARROW BOARD	OFF-DUTY UNIFORMED POLICE OFFICERS	CONSTRUCTION WARNING SIGNS	TEMPORARY PAVEMENT	REMARKS
																													0627		0628			0901					2901		
ITEM NUMBER																													0001	0011	0001	0010	0001	0025	0040	0041	0042	0201	0001	0002	0003	
UNIT																													L.F.	EA.	L.F.	EA.	L.S.	TONS	EA.	EA.	EA.	EA.	HR.	S.F.	S.Y.	
ENTIRE PROJECT			5					3	2													3		5	8								1				1	200	200	85	
STAGE 1	2	2	3	6		3		3		2	2	2	3	8	1	4	2.	2	2	1	1	1	2406	8	19	72	435		685	1					6	6	6					
STAGE 2	2	2	3	6				3		2	2	2		8		4							2410	11	17	62			30	2	175	1										
TOTALS	4	4	11	12		3		9	2	4	4	4	3	16	1	8	2	2	2	1	1	4	4816	24	44	134	435		715	3	175	1		1	6	6	6	1	200	200	85	

TRACED BY

FINAL BY

DISTRICT	COUNTY	ROUTE	SHEET
11-0	ALLEGHENY	GLENFIELD VIADUCT	3 OF 4
	GLENFIELD BOROUGH		

REVISION NUMBER	REVISION	DATE	BY

TO 65 SOUTH
M4-5 (24"x12")
M1-6 (24"x24")
M3-3 (24"x12")
SPECIAL (24"x24")

TO 65 SOUTH
M4-5 (24"x12")
M1-6 (24"x24")
M3-3 (24"x12")
M6-1 (21"x15")

R3-1 (24"x24")

W20-8 (30"x30")

3.5 MILES TO SEWICKLEY

ARROW BOARD

L.R. 652 WESTBOUND

LOCAL RAMP

RAMP R

RAMP B1

Approved Drums w/Type 'C' Lights 25' c to c

Bury end of Barrier

Temporary Conc. Barrier

TUBULAR MARKERS 25' SPACING

Y.P.M.

250' TRANSITION

W.P.M.

55' TRANSITION

660'

W.P.M.

Approved Drums w/Type 'C' Lights 25' c to c

W.P.M.

TEMP. END TRANSITION

L.R. 652 EASTBOUND

4.8 MILES TO PITTSBURGH

110' TRANSITION

Approved Drums w/Type 'C' Lights 25' c to c

CONRAIL

EAST BEAVER ST.

GLENFIELD VIADUCT

PHILLIPS LANE

OHIO RIVER

CONSTRUCT PHILLIPS LANE STA. 0+0 TO 2+75 SO AS TO MAINTAIN AT LEAST ONE LANE OF TRAFFIC. FLAGGERS WILL BE REQUIRED DURING ONE LANE OPERATIONS.

AT END OF EACH DAYS OPERATIONS ROAD SURFACE SHOULD BE SHAPED TO ALLOW TWO LANE TRAFFIC IF THIS CAN NOT BE ACCOMPLISHED, PROVIDE 24 HOUR FLAGGERS.

CLOSE SIDEWALK DURING CONSTRUCTION OF PHILLIPS LANE, STA. 0+0 TO 2+75.

FLAGGER SIGNS ARE TO BE IN PLACE ONLY WHEN FLAGGERS ARE PRESENT.

LANE RESTRICTION ON L.R. 652 EASTBOUND TO BE IN EFFECT ONLY DURING CONSTRUCTION OF ABUTMENT B. AT ALL OTHER TIMES, MAINTAIN NORMAL TRAFFIC PATTERNS, PROVIDE ADVANCE SIGNING IN ACCORDANCE WITH FIGURE 24, PUBLICATION 203.

LANE RESTRICTIONS ON LOCAL RAMP TO BE IN EFFECT ONLY DURING CONSTRUCTION OF ABUTMENT B, THE APPROACH SLAB AND THE ADJACENT ROADWAY.

Exist. Pav't. | Exist. Median (to be removed) | Exist. Pav't.

Bit. Surface Crse., ID-2, 1 1/2" Depth
Bit. Conc. Base Crse., 5" Depth
Subbase Material

DETAIL - TEMPORARY PAVING

(REMOVE MEDIAN AND INSTALL TEMPORARY PAVING WHILE MAINTAINING EXISTING TRAFFIC PATTERNS AROUND THIS AREA, SEE FIGURE 9A PUBLICATION 203 FOR TRAFFIC CONTROL DETAILS).

2640' 1140' 500' 500'

Type 'B' Flasher
ROAD CONSTRUCTION 1 MILE
W 20-1 (48"x48")
W 30-1-5

Type 'B' Flasher
LEFT LANE CLOSED 1/2 MILE
W 20-5-1 (48"x48")
W 30-1-4

LEFT LANE CLOSED 1500 FT.
W 20-5-1 (48"x48")
W 30-1-3

LEFT LANE CLOSED 1000 FT.
W 20-5-1 (48"x48")
W 30-1-2

W 4-2L (48"x48")

Type III Barricade

50 M.P.H. W13-1 — Type III Barricade

45 M.P.H. W13-1 — Type III Barricade

40 M.P.H. W13-1 — Type III Barricade

35 M.P.H. W13-1 — Type III Barricade

50' 25' 0 50'

ADVANCED SIGNING-L.R. 652 EASTBOUND

LEGEND

- PERMANENT CONSTRUCTION
- TEMPORARY PAVEMENT
- APPROVED MARKER
- TUBULAR MARKER

W.P.M.-TEMPORARY REMOVABLE PAV'T. MARKING TAPE (4" WHITE)

Y.P.M.-TEMPORARY REMOVABLE PAV'T. MARKING TAPE (4" YELLOW)

(2) END CONSTRUCTION G20-2 (60"x24") — Type III Barricade

(3) W20-7a (48"x48") — Type III Barricade

(4) Type B Flasher — STOP AHEAD W3-1-1 (48"x48") — Type III Barricade

(5) Type 'B' Flasher w/Red Lense — STOP R1-1 (48"x48") — Type III Barricade

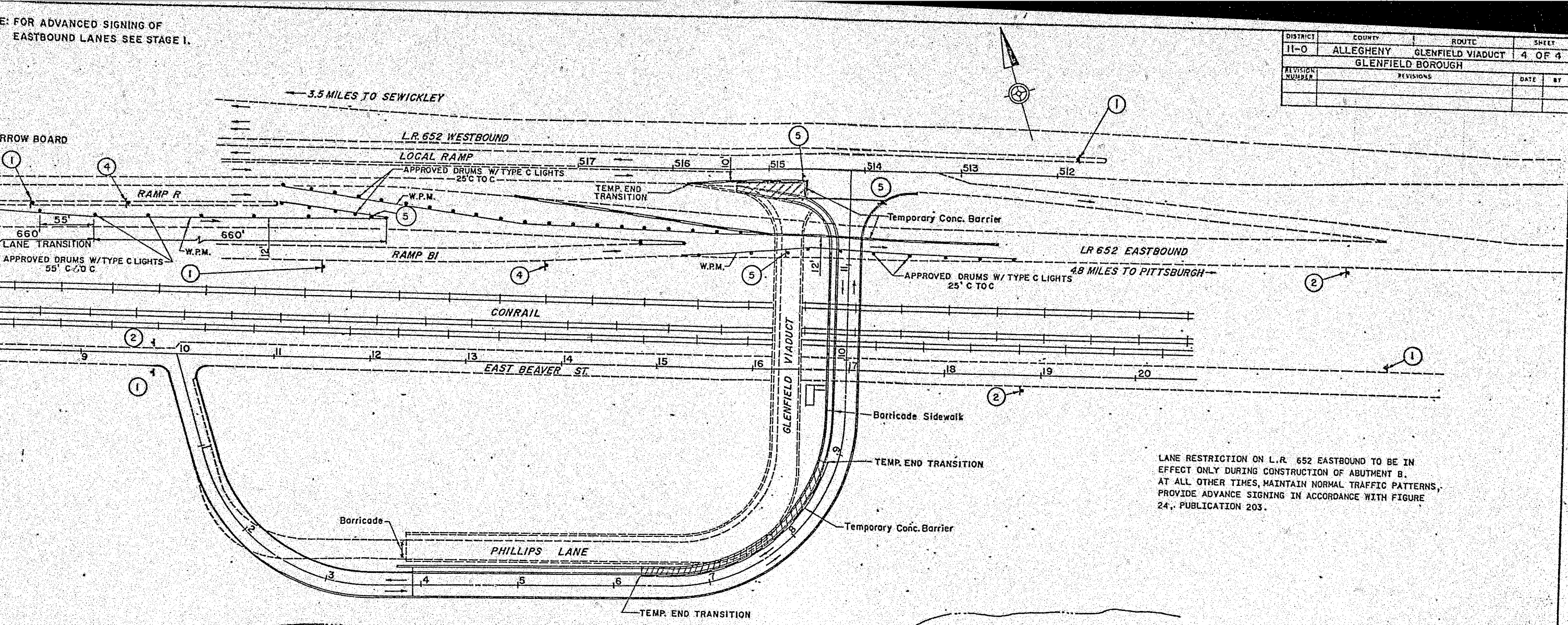
35' 0 50'

STAGE 1
TRAFFIC CONTROL PLAN

E: FOR ADVANCED SIGNING OF
EASTBOUND LANES SEE STAGE I.

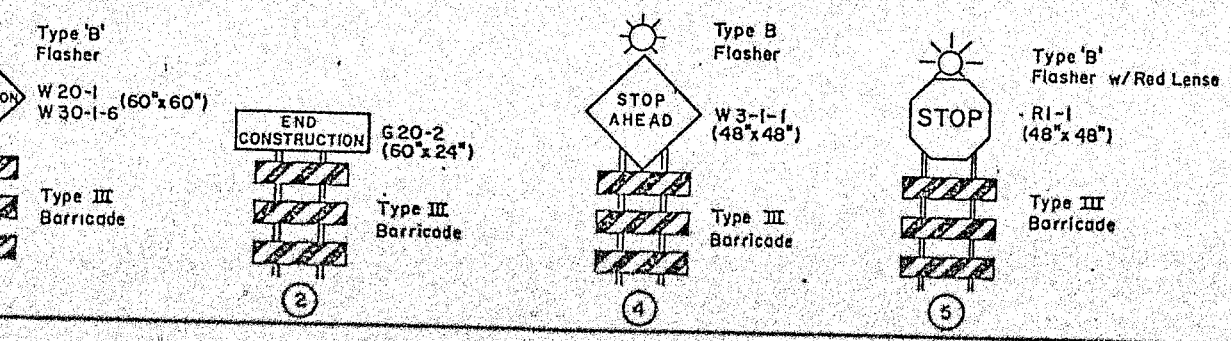
DISTRICT	COUNTY	ROUTE	SHEET
11-0	ALLEGHENY	GLENFIELD VIADUCT	4 OF 4
	GLENFIELD BOROUGH		

REVISION NUMBER	REVISIONS	DATE	BY



LANE RESTRICTION ON L.R. 652 EASTBOUND TO BE IN EFFECT ONLY DURING CONSTRUCTION OF ABUTMENT B. AT ALL OTHER TIMES, MAINTAIN NORMAL TRAFFIC PATTERNS, PROVIDE ADVANCE SIGNING IN ACCORDANCE WITH FIGURE 24, PUBLICATION 203.

NOTE : SEE SHEET 3 OF 4 FOR ADVANCE SIGNING FOR L.R.652 EASTBOUND DURING LEFT LANE CLOSURE.



50' 25' 0 50'

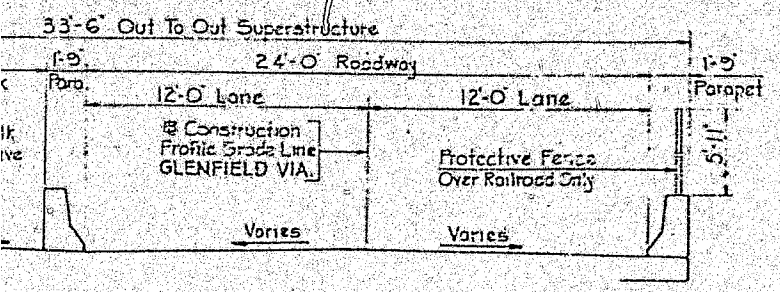
LEGEND

- PERMANENT CONSTRUCTION
- TEMPORARY PAVEMENT
- APPROVED DRUMS

W.P.M.- TEMPORARY REMOVABLE PAVEMENT MARKING TAPE (4" WHITE)

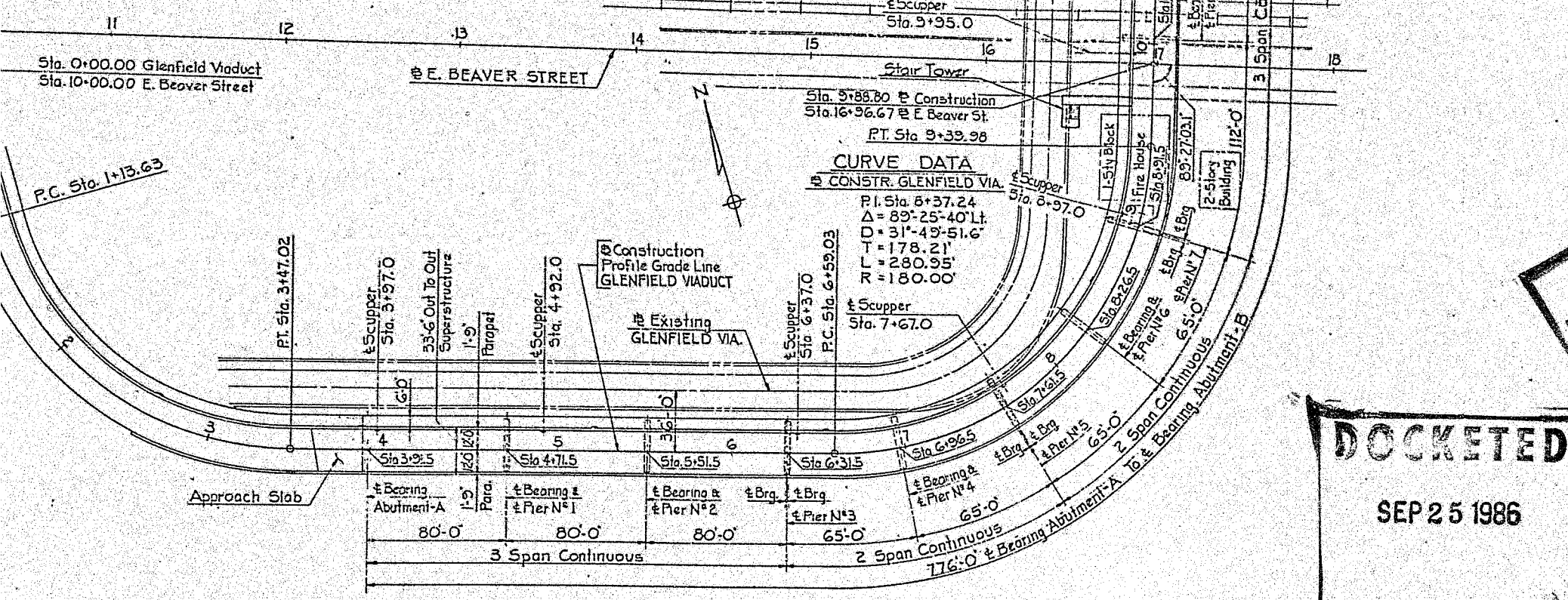
STAGE 2
TRAFFIC CONTROL PLAN

TRACED BY



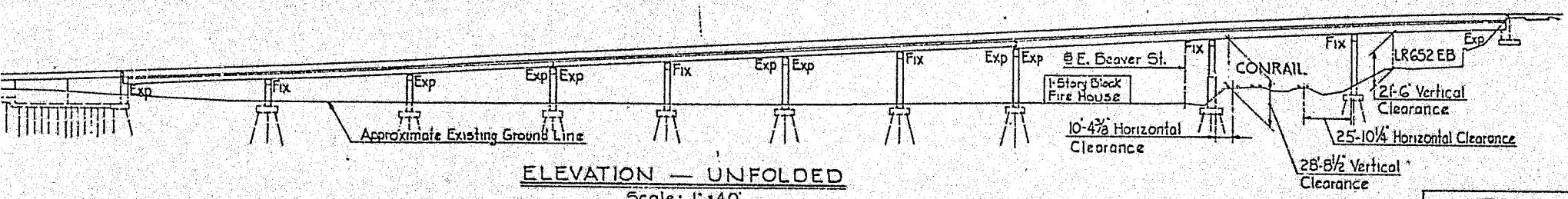
TYPICAL DECK SECTION

No Scale



PLAN

Scale: 1" = 40'



ELEVATION — UNFOLDED

Scale: 1" = 40'

INDEX OF SHEETS

SHT N°	DRAWING TITLE	SHT N°	DRAWING TITLE
1	General Plan & Elevation	21	Camber & Elevation Schedules - Unit I
2	General Notes & Slope-Cut Sketch	22	Framing Plan - Units II & III
3	Abutment-A, Plan, Elev. & Sections	23	Stringer Details - Units II & III
4	Walls A & B, Plan & Elevation	24	Camber & Elev Schedules - Units II & III
5	Walls A & B, Sections & Schedule	25	Framing Plan - Unit IV
6	Abut-B & Wall-D, Plan & Elevation	26	Stringer Details - Unit IV
7	Wall-C, Plan, Elevation & Section	27	Stringer Splices & Details - Unit IV
8	Abut-B & Wall-D, Sections & Details	28	Camber & Elevation Schedule - Unit IV
9	Abut-B & Walls C & D, Details & Schedule	29	Deck Plan - Unit I
10	Pier N° 1	30	Deck Plan - Unit II & III
11	Pier N° 2	31	Deck Plan - Unit IV
12	Pier N° 3	32	Deck Details & Bar Schedules
13	Pier N° 4	33	Miscellaneous Details
14	Pier N° 5	34	Drainage And Miscellaneous Details
15	Pier N° 6	35	Electrical Plan & Details
16	Pier N° 7	36	Boring Logs
17	Pier N° 8	37	Boring Logs
18	Pier N° 9	38	Boring Logs
19	Framing Plan - Unit I	39	Boring Logs
20	Stringer Details - Unit I		

SUPPLEMENTAL DRAWINGS

DESCRIPTION	DWG. N°	APP DATE
Protective Fence	BC-301A	3-2-81
Pedestrian Traffic Barrier (Terminal Details)	BC-317A	3-2-81
Electrical Details	BC-321A	6-20-80
Lighting Pole Anchorage	BC-322A	6-20-80
Cement Concrete Slope Wall	BC-331A	11-4-81
Permanent Metal Deck Forms	BC-332B	11-4-81
Threaded Insert Anchor Assembly	BC-334A	3-2-81
Construction & Expansion Joint Details	BC-335A	11-4-81
Reinforcement Bar Fabrication Details	BC-336A	11-4-81
Railing Anchor Systems	BC-337A	3-2-81
Bridge Drainage	BC-351	7-1-70
Concrete Deck Slab Details	BC-352	4-1-71
Steel Girder Details	BC-353	4-1-71
Steel Diaphragms	BC-354	7-1-70
Bearings - Sheet 1 Of 2	BC-355A	11-10-80
Bearings (For Curved Steel Beam Bridges)	BC-356A	11-10-80
Armored Preformed Neoprene Compression Dam	BC-363	10-20-70
Highway Lighting	RC-83	9-26-84
Classification Of Earthwork For Structures	RC-11	5-2-83
Backfill At Structures	RC-12	5-2-83
Bridge Approach Slab	RC-23	5-2-83

For GENERAL NOTES See Sheet N° 2

DOCUMENT FOLDER

DOCKETED

SEP 25 1986

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

Commonwealth of Pennsylvania

DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67

10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE

GENERAL PLAN & ELEVATION

Date: 2-17-86

Rummel, Klepper & Kahl
1309 Bridge Street
New Cumberland, Pa.

RECOMMENDED _____

BRIDGE ENGINEER

SHEET 1 OF 39

S-16201

GENERAL NOTES

CONSTRUCTION SPECIFICATIONS:

PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH PENNSYLVANIA DEPARTMENT OF TRANSPORTATION "SPECIFICATION PUBLICATION 408," 1983 EDITION, THE AMERICAN WELDING SOCIETY, "STRUCTURAL WELDING CODE," 1980 AND THE SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS:

DESIGN IS IN ACCORDANCE WITH THE AASHTO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES," 1983 EDITION, AS SUPPLEMENTED BY THE AASHTO "GUIDE SPECIFICATIONS FOR HORIZONTALLY CURVED HIGHWAY BRIDGES," 1980 EDITION, THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION, "DESIGN MANUAL, PART 4, STRUCTURES," 1982 EDITION AND THE "LOAD FACTOR DESIGN LETTERS NUMBERS 1 THROUGH 8.

DESIGN:

LOAD FACTOR DESIGN METHOD.

LIVE LOADS: HS25-44 LOADING; ALTERNATE MILITARY LOADING OF TWO AXLES, FOUR FEET APART, WITH EACH AXLE WEIGHING 30,000 POUNDS, OR 204,000 POUND PERMIT VEHICLE (BD82-33 DATED AUGUST 6, 1982) WHICHEVER PRODUCES THE GREATEST STRESS.

DEAD LOAD: INCLUDES 30 POUNDS PER SQUARE FOOT FOR FUTURE WEARING SURFACE ON THE DECK SLAB.

INCLUDES 15 POUNDS PER SQUARE FOOT OF DECK AREA FORMED USING PERMANENT METAL DECK FORMS.

TRAFFIC: AVERAGE DAILY TRUCK TRAFFIC LESS THAN 2500.

DESIGN SPEED: 25 MILES PER HOUR.

CONCRETE:

PROVIDE CLASS AAA CEMENT CONCRETE FOR DECK SLABS.
PROVIDE CLASS AA CEMENT CONCRETE FOR BACKWALLS, U-WINGS ABOVE BRIDGE SEAT CONSTRUCTION JOINT, CURBS, SIDEWALKS AND PARAPETS.

PROVIDE CLASS A CEMENT CONCRETE FOR PIERS, ABUTMENTS BELOW BRIDGE SEATS, PEDESTALS, WINGWALLS, RETAINING WALLS AND ALL FOOTINGS.
PROVIDE CLASS C CEMENT CONCRETE BELOW BOTTON OF FOOTINGS WHEN SPECIFIED.
PROVIDE TWO INCH CONCRETE COVER ON REINFORCEMENT BARS EXCEPT WHERE NOTED OTHERWISE.
CHAMFER EXPOSED CONCRETE EDGES 1 INCH BY 1 INCH EXCEPT WHERE NOTED OTHERWISE.
RETARDER ADMIXTURE CONFORMING TO SECTION 711.3 OF PUBLICATION 408 MAY BE USED IN THE CONCRETE DECK SLAB.
PROVIDE EITHER PERMANENT METAL DECK FORMS OR REMOVABLE FORMS.
ABUTMENT BACKWALLS MAY BE PLACED UP TO A CONSTRUCTION JOINT BELOW THE LEVEL OF THE BOTTOM OF THE DECK SLAB PRIOR TO CONSTRUCTION OF THE SUPERSTRUCTURE.
PREPARE BEARING AREA AS SPECIFIED IN SECTION 1001.3(k)8 OF PUBLICATION 408.

REINFORCING STEEL:

PROVIDE GRADE 60 STEEL FOR ALL REINFORCING BARS.
PROVIDE EPOXY-COATED REINFORCING BARS IN DECK SLAB, SIDEWALKS, PARAPETS AND ABUTMENT BACKWALLS.
BAR DETAILING IS IN ACCORDANCE WITH PENNSYLVANIA DEPARTMENT OF TRANSPORTATION STANDARDS.
BAR DETAIL DIMENSIONS ARE OUT TO OUT.
BAR SCHEDULES DO NOT INCLUDE REINFORCING BARS FOR ITEMS DETAILED IN STANDARD DRAWINGS.

STRUCTURAL STEEL:

PROVIDE STRUCTURAL STEEL CONFORMING TO ASTM DESIGNATION A572, GRADE 50, FOR MAIN LOAD CARRYING MEMBERS AND ATTACHMENTS, AS INDICATED ON THE DRAWINGS. PROVIDE STRUCTURAL STEEL CONFORMING TO ASTM DESIGNATION A36 AT ALL OTHER LOCATIONS, EXCEPT WHERE NOTED OTHERWISE.

IF BEAMS OR GIRDERS CAN BE FABRICATED IN LENGTHS LONGER THAN THE SECTIONS SHOWN ON THE PLANS BY ELIMINATING FIELD SPLICES, FIELD SPLICES MAY BE OMITTED AT THE REQUEST OF THE CONTRACTOR, PROVIDED HE HAS OBTAINED A HAULING PERMIT PRIOR TO PREPARATION OF STEEL SHOP DETAIL DRAWINGS. OMITTED FIELD SPLICES WILL NOT BE APPROVED AT THE SHOP DRAWING REVIEW STAGE IF A COPY OF HAULING PERMIT DOES NOT ACCOMPANY THE AFFECTED SHOP DRAWINGS. IF BEAMS OR GIRDERS CANNOT BE SHIPPED IN LENGTHS SHOWN ON THE PLANS, FIELD SPLICES WILL BE PERMITTED AT THE REQUEST OF THE CONTRACTOR, BUT NO COMPENSATION WILL BE ALLOWED FOR SPLICE.

PROVIDE FLANGE BUTT WELDED SPLICES AS SHOWN ON THE DRAWINGS.

PROVIDE HIGH STRENGTH BOLTS CONFORMING TO ASTM DESIGNATION A325 FOR ALL FASTENERS, UNLESS NOTED OTHERWISE. PROVIDE 7/8 INCH DIAMETER BOLTS UNLESS NOTED OTHERWISE.

REAMING OF FIELD SPLICES IS PROHIBITED.

SUPERSTRUCTURE DIMENSIONS ARE GIVEN FOR A MEAN TEMPERATURE OF 68° F.

PROVIDE ANCHOR BOLTS CONFORMING TO ASTM DESIGNATION A36, AND INSTALL IN ACCORDANCE WITH SECTION 1050.3(c)4c OF PUBLICATION 408. PROVIDE MINIMUM SIZE AND EMBEDMENT OF ANCHOR BOLTS AS FOLLOWS:

ABUTMENT B AND PIER 9: 1¼ INCH DIAMETER, 12 INCH EMBEDMENT
PIER 8 AND PIER 7, SPAN H: 1¼ INCH DIAMETER, 15 INCH EMBEDMENT
ALL OTHERS: 1 INCH DIAMETER, 10 INCH EMBEDMENT

PAINT ALL STEEL NOT OTHERWISE PROTECTED IN ACCORDANCE WITH SECTION 1060 OF PUBLICATION 408.

FOUNDATIONS:

THE SPREAD FOOTINGS MAY BE ORDERED BY THE ENGINEER TO BE AT ANY ELEVATION OR OF ANY DIMENSIONS NECESSARY TO PROVIDE A PROPER FOUNDATION.

DRIVE BEARING PILES TO ABSOLUTE REFUSAL INTO THE STRATUM DEFINED BY TIP ELEVATIONS PREDETERMINED BY THE ENGINEER FROM TEST PILES. THE ACCEPTABILITY OF THE BEARING PILES WHICH ATTAIN ABSOLUTE REFUSAL ABOVE THE PREDETERMINED TIP ELEVATIONS SHALL BE DECIDED BY THE ENGINEER. THE CAPABILITY OF THE HAMMER SELECTED BY THE CONTRACTOR SHALL BE VERIFIED BY THE ENGINEER FROM THE TEST PILE DRIVING RESULTS.

PROVIDE ALL PILES WITH PILE TIP REINFORCEMENT.

EXISTING STRUCTURES:

VERIFY, IN THE FIELD, ALL DIMENSIONS AND GEOMETRY OF EXISTING STRUCTURES RELEVANT TO THE NEW CONSTRUCTION.
WHERE THE LIMITS OF DEMOLITION ARE VISIBLE UNDER FINAL CONDITIONS, REMOVE EXISTING STRUCTURES OR PAVEMENTS TO NEAT LINES. PROTECT PORTIONS OF EXISTING STRUCTURES TO REMAIN AFTER DEMOLITION FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION.

AT ABUTMENT B, THE INTENTION OF THE DESIGN IS TO PROVIDE A SMOOTH TRANSITION BETWEEN THE NEW STRUCTURE AND THE EXISTING STRUCTURES, ROADWAY AND SIDEWALK SURFACES. WHERE MINOR DISCREPANCIES OCCUR BETWEEN INFORMATION CONTAINED IN THE DRAWINGS AND FIELD CONDITIONS, ADJUST DIMENSIONS, ELEVATIONS OR DETAILS, WITH THE APPROVAL OF THE ENGINEER, SO AS TO BEST ACCOMPLISH THE DESIGN INTENTION.

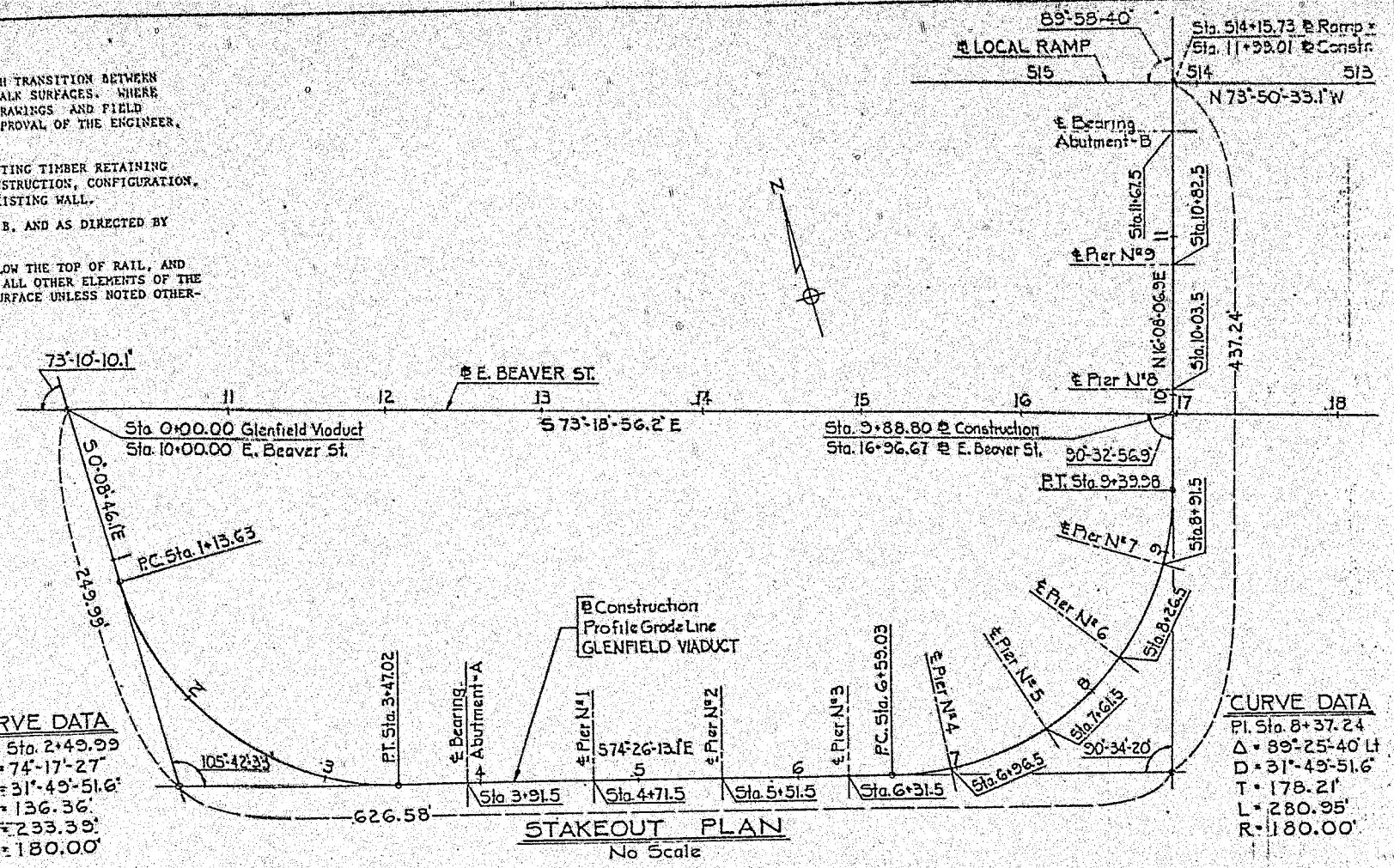
AT PIER 8, PROVIDE SUPPORT FOR THE REMAINING PORTIONS OF THE EXISTING TIMBER RETAINING WALL AS NEEDED, AND CONSTRUCT NEW RETAINING WALLS OF SIMILAR CONSTRUCTION, CONFIGURATION, APPEARANCE AND SERVICEABILITY TO CLOSE OPENINGS CREATED IN THE EXISTING WALL.

PROVIDE TEMPORARY SUPPORT OF EMBANKMENTS AT PIER 8 AND ABUTMENT B, AND AS DIRECTED BY THE ENGINEER.

REMOVE THE EXISTING PIER ADJACENT TO THE RAILROAD TO A LEVEL BELOW THE TOP OF RAIL, AND PATCH THE EXPOSED SURFACE TO PROVIDE A NEAT APPEARANCE. REMOVE ALL OTHER ELEMENTS OF THE EXISTING BRIDGE TO A LEVEL TWO FEET BELOW THE FINISHED GROUND SURFACE UNLESS NOTED OTHERWISE OR DIRECTED OTHERWISE BY THE ENGINEER.

STAIR TOWER:

FOR ADDITIONAL GENERAL NOTES, SEE SHEET NO. 33.



STAKEOUT PLAN
No Scale

CURVE DATA
P.I. Sta. 2+49.99
Δ = 74°-17'-27"
D = 31°-49'-51.6"
T = 136.36'
L = 233.39'
R = 180.00'

CURVE DATA
P.I. Sta. 8+37.24
Δ = 89°-25'-40" Lt
D = 31°-49'-51.6"
T = 178.21'
L = 280.95'
R = 180.00'

SUMMARY OF QUANTITIES

ITEM	ITEM Nº	UNIT	ABUT A	ABUT B	PIER-1	PIER-2	PIER-3	PIER-4	PIER-5	PIER-6	PIER-7	PIER-8	PIER-9	SUPERSTR	TOTAL
Bridge Structure As Designed		L.S.													L.S.
Class 3 Excavation		C.Y.	436	1265	74	86	87	81	75	64	75	112	49	—	2404
Cast In Place Cement Concrete Side Slope Wall		S.Y.	—	485	—	—	—	—	—	—	—	—	—	—	485
Membrane Waterproofing		S.Y.	—	2	—	—	—	—	—	—	—	—	—	—	2
No. 57 Coarse Aggregate		C.Y.	24	29	—	—	—	—	—	—	—	—	—	—	53
2" Conduit In Structure		L.F.	—	—	—	—	—	—	—	—	—	—	—	770	770
Class AAA Cement Concrete		C.Y.	—	—	—	—	—	—	—	—	—	—	—	721	721
Class AA Cement Concrete		C.Y.	26	37	—	—	—	—	—	—	—	—	—	196	259
Class A Cement Concrete		C.Y.	245	363	48	53	64	66	68	70	74	129	74	—	1254
Lighting Pole Anchorage		Ea.	—	—	—	—	—	—	—	—	—	—	—	7	7
Select Borrow Excavation, Structure Backfill		C.Y.	538	903	44	55	55	49	44	34	44	58	16	—	1840
Reinforcement Bars		Lbs.	20325	18556	8387	9534	9348	9608	10253	10332	15297	19162	15241	231895	157907
Reinforcement Bars, Epoxy Coated		Lbs.	3243	2769	—	—	—	—	—	—	—	—	—	—	50
Steel Beam Test Piles, HP12x53		L.F.	50	—	—	—	—	—	—	—	—	—	—	—	371
Steel Beam Test Piles, HP12x74		L.F.	47	—	43	40	39	39	40	38	37	37	11	—	2040
Steel Beam Bearing Piles, HP12x53	1005-1103	L.F.	2040	—	—	—	—	—	—	—	—	—	—	—	3888
Steel Beam Bearing Piles, HP12x74	1005-1104	L.F.	480	—	393	365	356	356	365	351	486	592	144	—	41
Steel Beam Pile Tip Reinforcement HP12x53	1005-1153	Ea.	41	—	—	—	—	—	—	—	—	—	—	—	116
Steel Beam Pile Tip Reinforcement HP12x74	1005-1154	Ea.	11	—	10	10	10	10	10	10	14	17	14	78	78
Parapet Protective Fence Steel		L.F.	—	—	—	—	—	—	—	—	—	—	—	760	760
Sidewalk Protective Fence Steel		L.F.	—	—	—	—	—	—	—	—	—	—	—	—	26
Class C Cement Concrete	1001-0020	C.Y.	—	26	—	—	—	—	—	—	—	—	—	3416	3416
Protective Coating For Reinf. Concrete Surface		S.Y.	—	—	—	—	—	—	—	—	—	—	—	35	35
Armored Preformed Neoprene Compression Dam 1" Mov.		L.F.	—	—	—	—	—	—	—	—	—	—	—	70	70
Armored Preformed Neoprene Compression Dam 1½ Mov.		L.F.	—	—	—	—	—	—	—	—	—	—	—	35	35
Armored Preformed Neoprene Compression Dam 2" Mov.		L.F.	—	—	—	—	—	—	—	—	—	—	—	35	35
Armored Preformed Neoprene Compression Dam 2½ Mov.		L.F.	—	—	—	—	—	—	—	—	—	—	—	35	35
Downspouting		L.F.	4	—	10	—	19	—	25	—	29	36	29	69	221
Fabricated Structural Steel		Lbs.	—	—	—	—	—	—	—	—	—	—	—	753980	753980
Scupper		Ea.	—	—	—	—	—	—	—	—	—	—	—	7	7
Stair Tower		L.S.	(For Quantities, See Sheet No. 34)												L.S.
Removal Of Existing Bridge	1018-0001	L.S.													L.S.
Electrical Work		L.S.	(For Quantities See Sheet 34)												L.S.

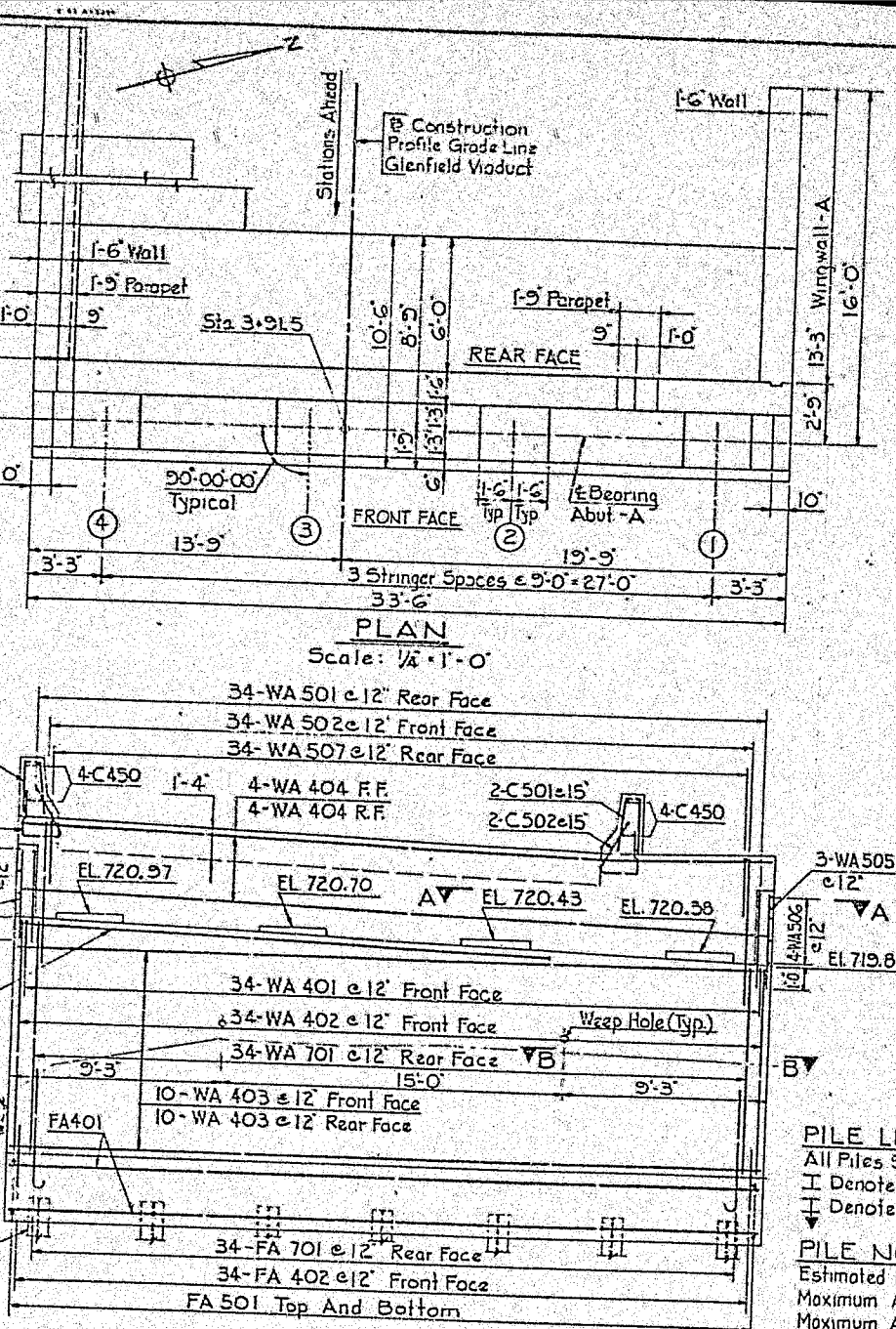
Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT
GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
GENERAL NOTES & STAKEOUT PLAN

RECOMMENDED _____
BRIDGE ENGINEER

SHEET 2 OF 39
S-16201

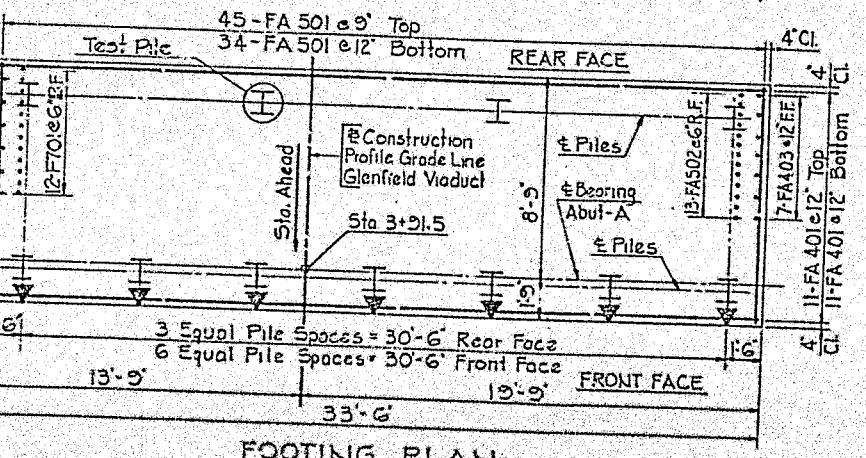


PLAN

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

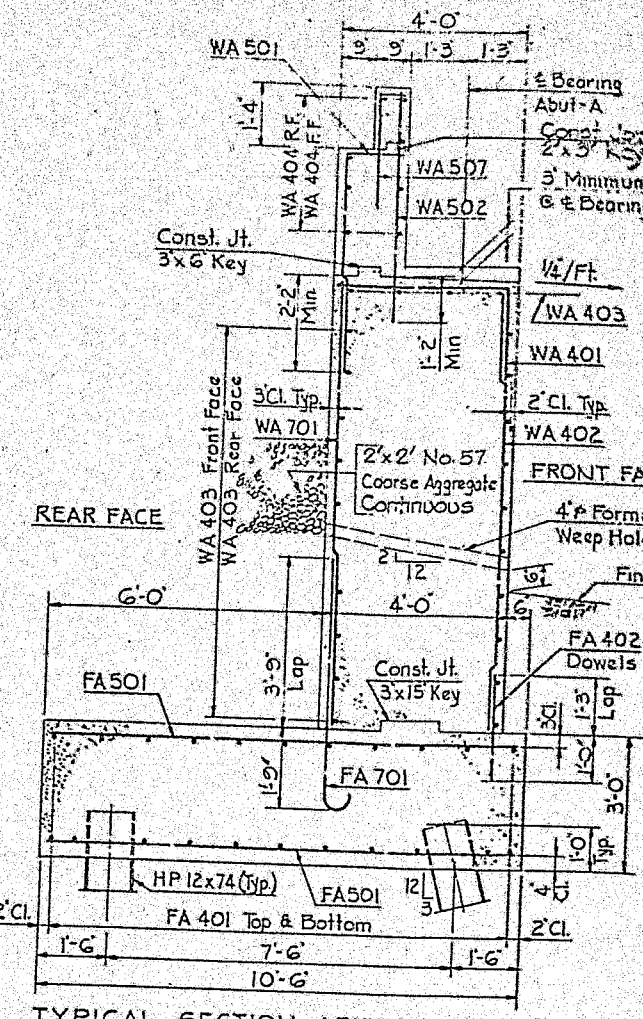
ELEVATION

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



FOOTING PLAN

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



TYPICAL SECTION ABUTMENT-A

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

PILE LEGEND

All Piles Shall Be HP12x74

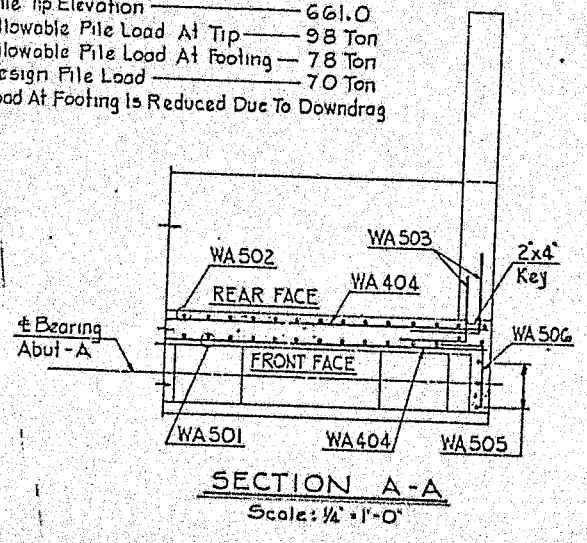
H Denotes Plumb Piles

H Denotes Battered Piles 3:12

PILE NOTES

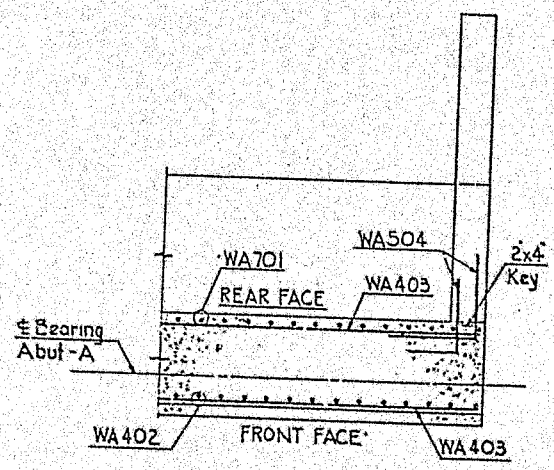
Estimated Pile Tip Elevation	661.0
Maximum Allowable Pile Load At Tip	98 Ton
Maximum Allowable Pile Load At Footing	78 Ton
Maximum Design File Load	70 Ton

Allowable Load At Footing Is Reduced Due To Downdrag



SECTION A-A

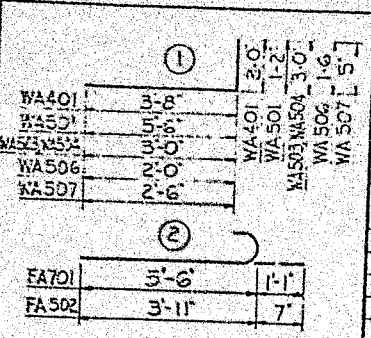
Scale: 1/2" = 1'-0"



SECTION B-B

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

BAR TYPES



BAR SCHEDULE

MARK	SIZE	TYPE	NO.	LENGTH	REMARKS
FA401	#4	Str.	22	10'-2"	
FA402	#4	Str.	34	2'-3"	
FA403	#4	Str.	7	2'-3"	
FA501	#5	Str	79	33'-2"	
FA502	#5	2	13	4'-6"	
FA601	#6	Str.	6	33'-2"	
FA602	#6	Str	12	10'-2"	
FA701	#7	2	34	6'-7"	
WA401	#4	1	34	5'-8"	
WA402	#4	Str.	34	5'-3" To 10'-4"	Vary By 3/8" (+)
WA403	#4	Str.	24	3'-2"	
*WA404	#4	Str.	10	3'-2"	
*WA501	#5	1	34	6'-8"	
*WA502	#5	Str.	34	5'-10"	
WA503	#5	1	22	6'-0"	
*WA504	#5	1	8	6'-0"	
*WA505	#5	Str.	6	4'-2"	
*WA506	#5	1	8	3'-6"	
*WA507	#5	1	34	2'-11"	
WA701	#7	Str.	34	5'-3" To 10'-4"	Vary By 3/8" (+)
*C450	#4	Str.	8	1'-2"	
*C501	#5	3	4	5'-5"	
*C502	#5	4	4	6'-3"	

* Denotes Epoxy Coated Bars.

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

Commonwealth of Pennsylvania

DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67

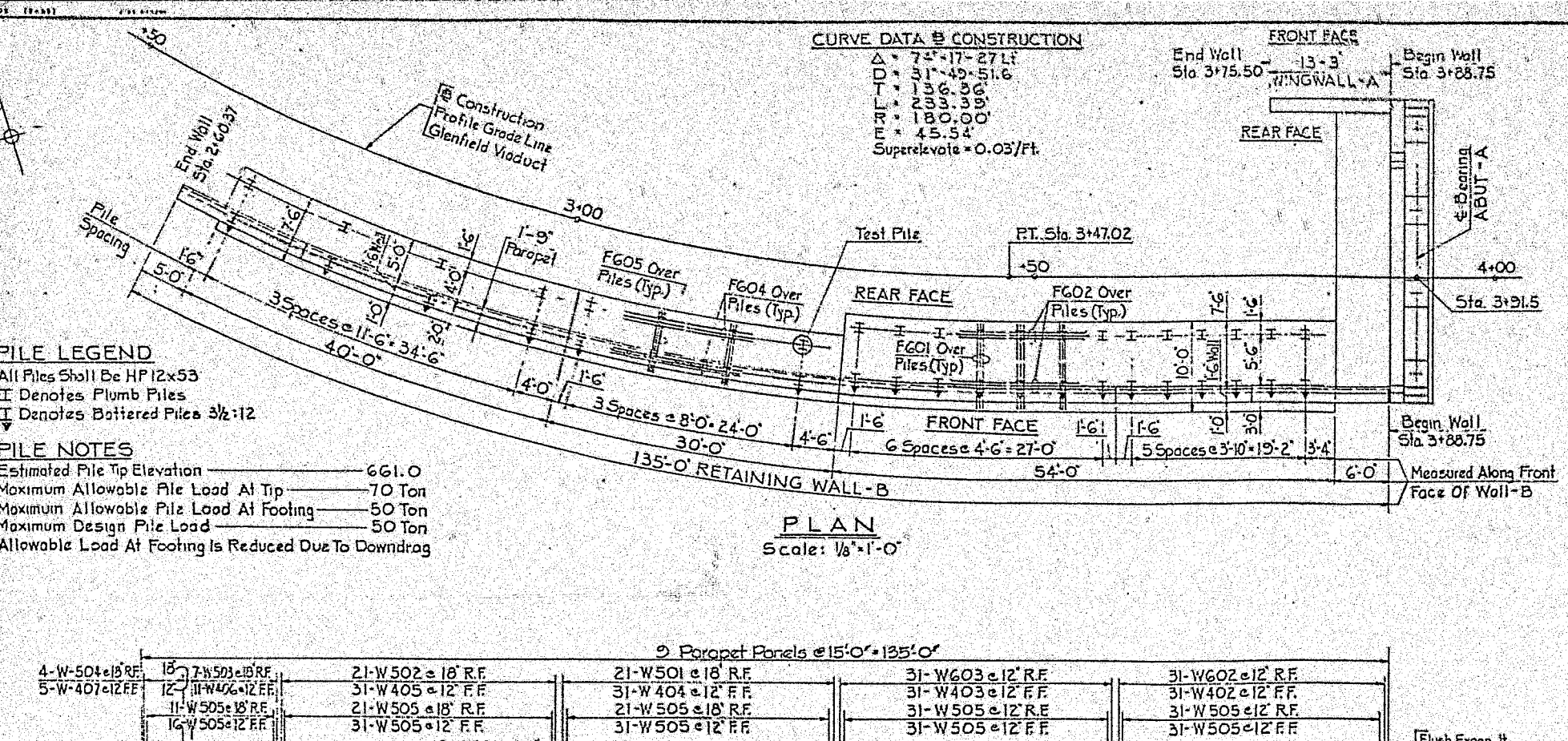
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE

ABUTMENT A PLAN, ELEV, & SECTIONS

RECOMMENDED _____

BRIDGE ENGINEER

SHEET 3 OF 39



PLAN
Scale: 1/8" = 1'-0"

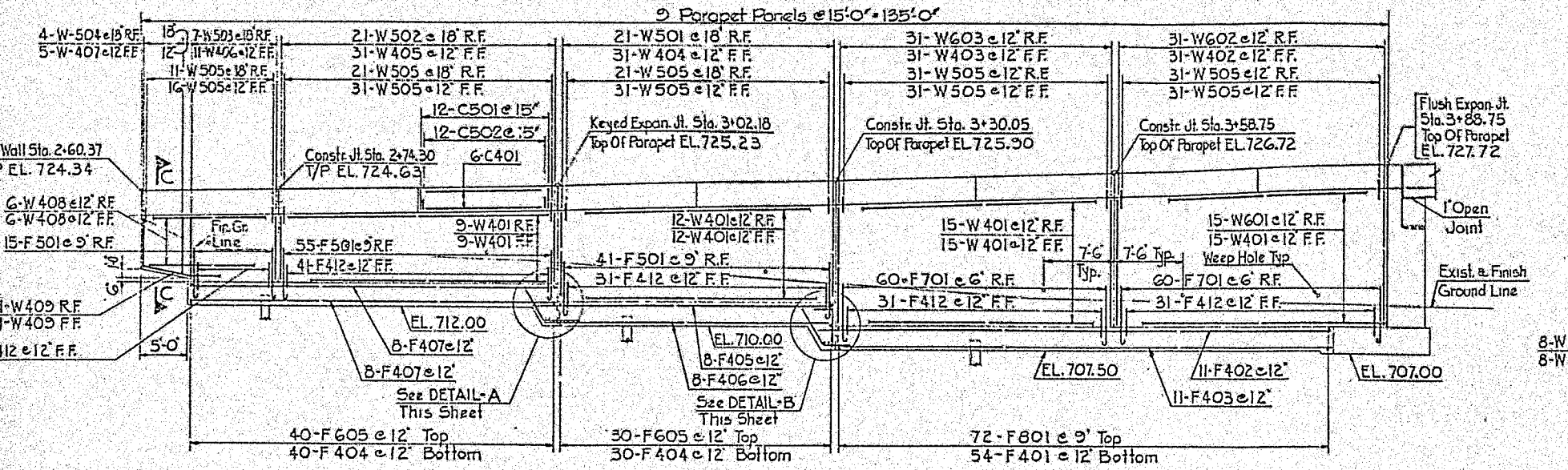
PILE LEGEND

All Piles Shall Be HP12x53
I Denotes Plumb Piles
I Denotes Battered Piles 3½:12

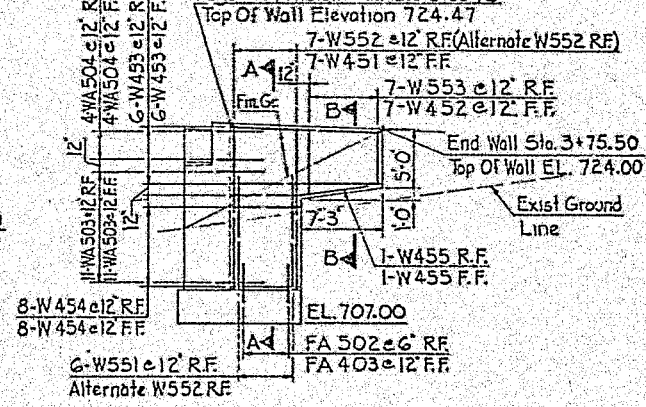
PILE NOTES

Estimated Pile Tip Elevation	661.0
Maximum Allowable Pile Load At Tip	70 Ton
Maximum Allowable Pile Load At Footing	50 Ton
Maximum Design Pile Load	50 Ton

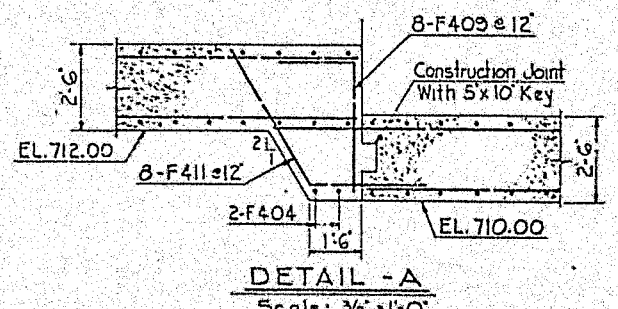
Allowable Load At Footing Is Reduced Due To Downdrag



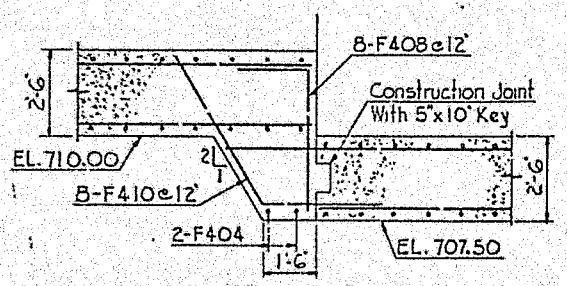
ELEVATION RETAINING WALL - B
Scale: 1/8" = 1'-0"



ELEVATION WINGWALL - A
Scale: 1/8" = 1'-0"



DETAIL - A
Scale: 3/8" = 1'-0"



DETAIL - B
Scale: 3/8" = 1'-0"

NOTE:
For Sections A-A, B-B, C-C And Typical Wall Sections, See Sheet No 5.

Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				

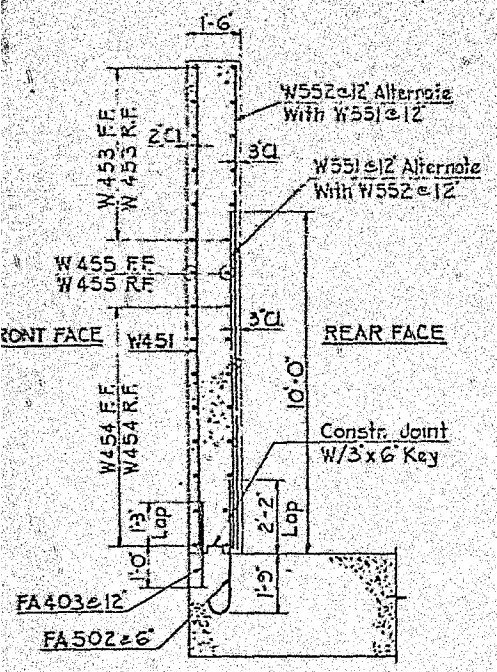
Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
WALLS A & B, PLAN & ELEVATION

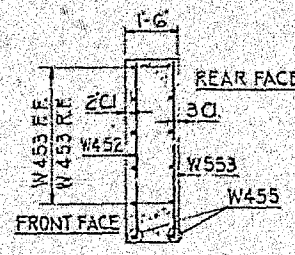
RECOMMENDED _____
BRIDGE ENGINEER

SHEET 4 OF 32
S-16201



SECTION A-A

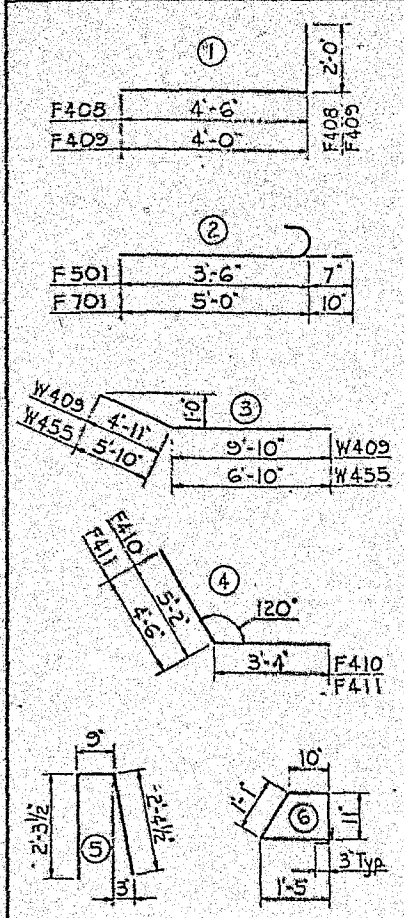
Scale: 3/8" = 1'-0"



SECTION B-B

Scale: 3/8" = 1'-0"

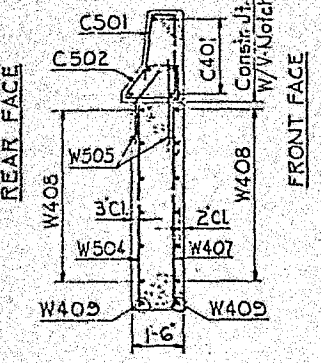
BAR TYPES



BAR SCHEDULE

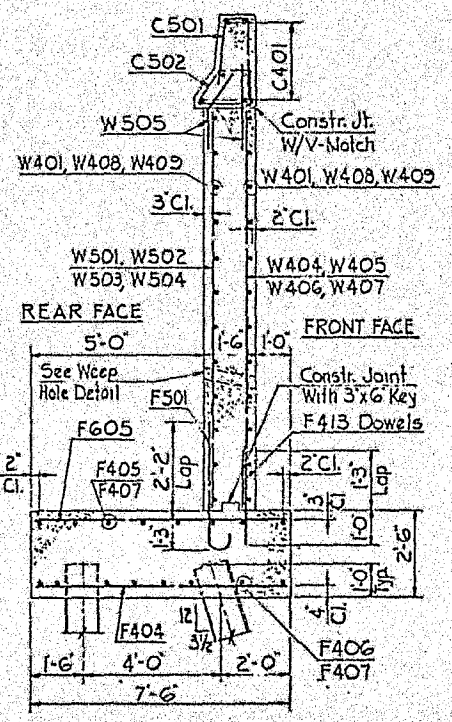
MARK	SIZE	TYPE	NO.	LENGTH	REMARKS	MARK	SIZE	TYPE	NO.	LENGTH	REMARKS
F401	#4	Str.	54	9'-6"		W401	#4	Str.	87	29'-8"	
F402	#4	Str.	11	56'-2"		W402	#4	Str.	31	13'-10" To 14'-11"	Vary By 3/8"
F403	#4	Str.	11	55'-4"		W403	#4	Str.	31	13'-0" To 13'-10"	Vary By 5/8"
F404	#4	Str.	74	7'-2"		W404	#4	Str.	31	9'-10" To 10'-6"	Vary By 1/2"
F405	#4	Str.	8	32'-0"		W405	#4	Str.	31	7'-4" To 7'-10"	Vary By 3/8"
F406	#4	Str.	8	31'-2"		W406	#4	Str.	11	7'-0"	
F407	#4	Str.	16	38'-8"		W407	#4	Str.	5	5'-6" To 6'-6"	Vary By 3"
F408	#4	1	8	6'-6"		W408	#4	Str.	12	14'-8"	
F409	#4	1	8	6'-0"		W409	#4	3	2	14'-9"	
F410	#4	4	8	8'-6"							
F411	#4	4	8	7'-10"							
F412	#4	Str.	145	2'-3"							
						W451	#4	Str.	7	14'-1" To 14'-4"	Vary By 1/2"
						W452	#4	Str.	7	4'-10" To 6'-0"	Vary By 2 7/8"
						W453	#4	Str.	12	13'-0"	
						W454	#4	Str.	16	5'-8"	
F501	#5	2	111	3'-9"		W455	#4	3	2	12'-8"	
F601	#6	Str.	72	9'-8"							
F602	#6	Str.	6	50'-0"		W501	#5	Str.	21	9'-10" To 10'-6"	Vary By 3/8"
F603	#6	Str.	6	26'-0"		W502	#5	Str.	21	7'-4" To 7'-10"	Vary By 1/2"
F604	#6	Str.	6	36'-6"		W503	#5	Str.	7	7'-0"	
F605	#6	Str.	94	7'-2"		W504	#5	Str.	4	5'-6" To 6'-6"	Vary By 4"
						* W505	#5	Str.	255	2'-6"	
F701	#7	2	120	5'-10"							
						W551	#5	Str.	6	10'-0"	
						W552	#5	Str.	7	14'-1" To 14'-4"	Vary By 1/2"
F801	#8	Str.	72	9'-8"		W553	#5	Str.	7	4'-10" To 6'-0"	Vary By 2 7/8"
*C401	#4	Str.	54	14'-8"							
						W601	#6	Str.	15	29'-8"	
						W602	#6	Str.	31	13'-10" To 14'-11"	Vary By 7/16"
						W603	#6	Str.	31	13'-0" To 13'-10"	Vary By 5/16"
*C501	#5	5	108	5'-3"							
*C502	#5	6	108	4'-9"							

* Denotes Epoxy Coated Bars.



SECTION C-C

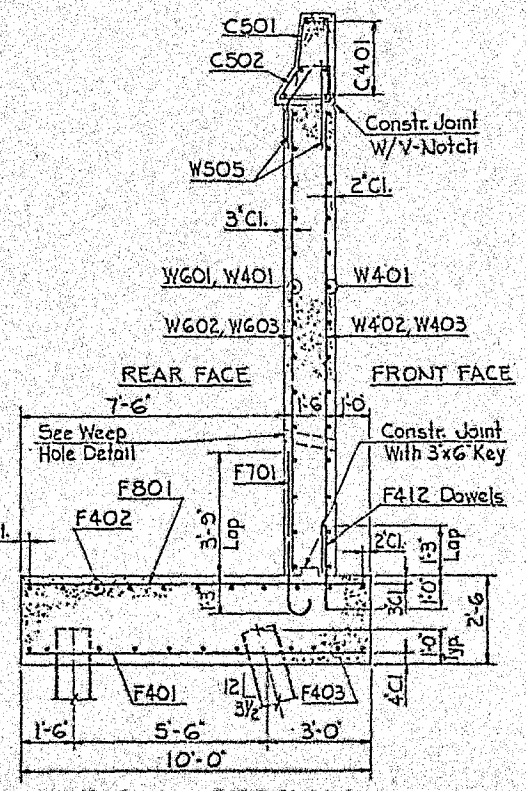
Scale: 3/8" = 1'-0"



TYPICAL SECTION

STA. 2+65.01 TO STA. 3+30.05

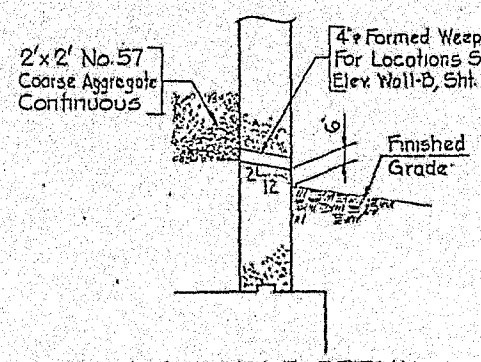
Scale: 3/8" = 1'-0"



TYPICAL SECTION

STA. 3+30.05 TO STA. 3+88.75

Scale: 3/8" = 1'-0"



WEEP HOLE DETAIL

Scale: 3/8" = 1'-0"

Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				

Commonwealth of Pennsylvania

DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67

10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE

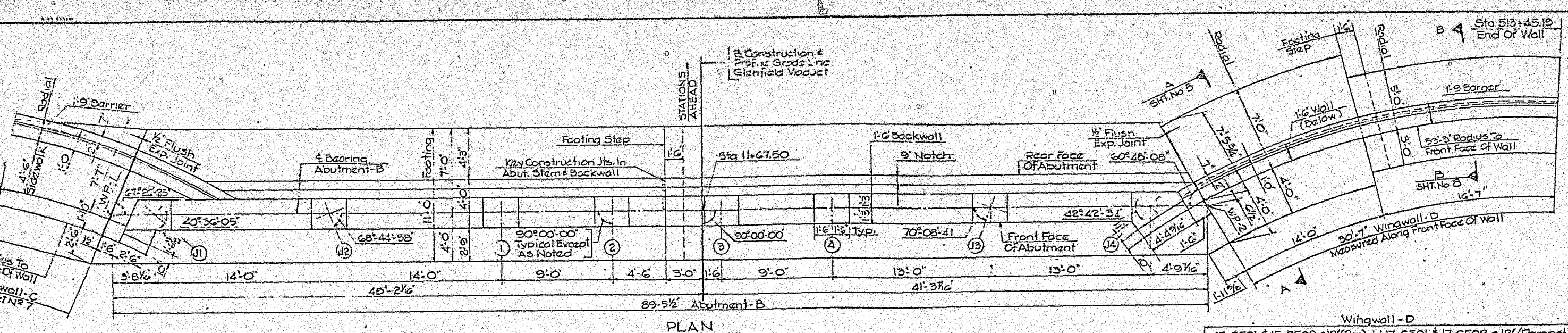
WALLS A & B SECTIONS & SCHEDULE

RECOMMENDED

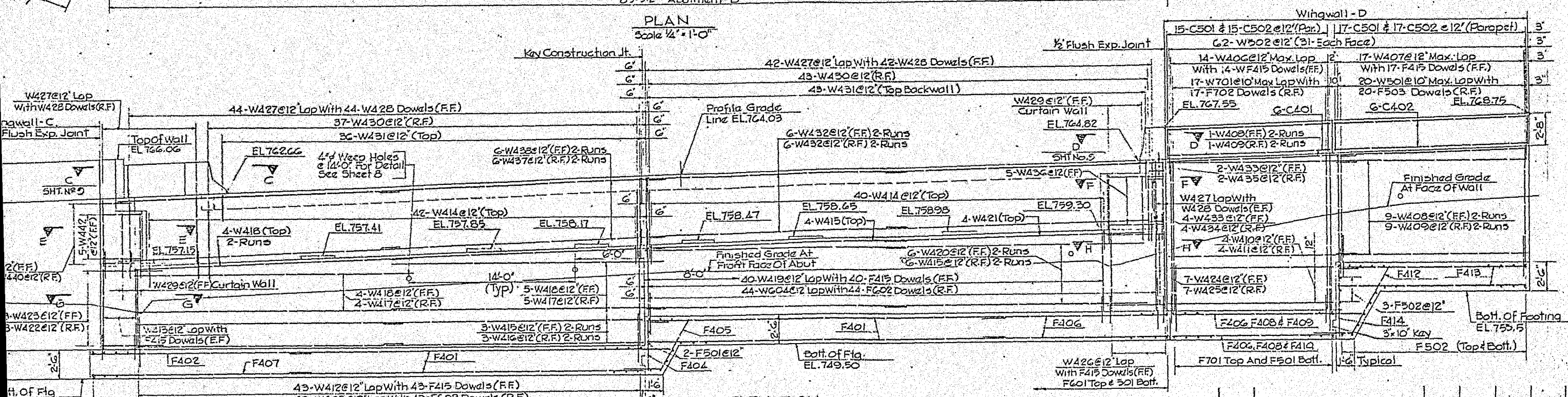
BRIDGE ENGINEER

SHEET 15 OF 32

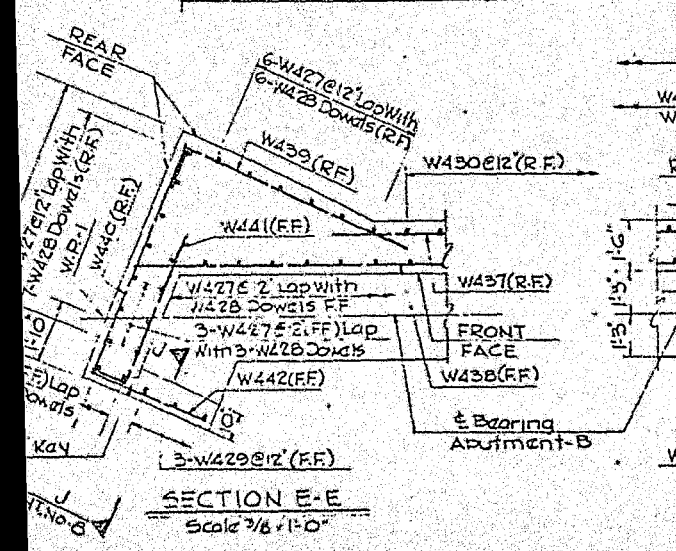
S-16201



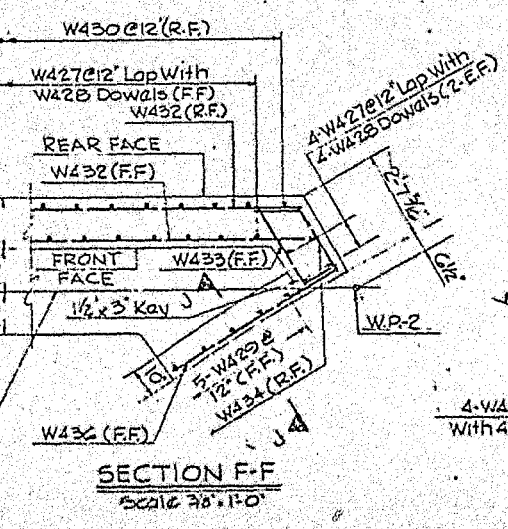
PLAN
Scale ¼" = 1'-0"



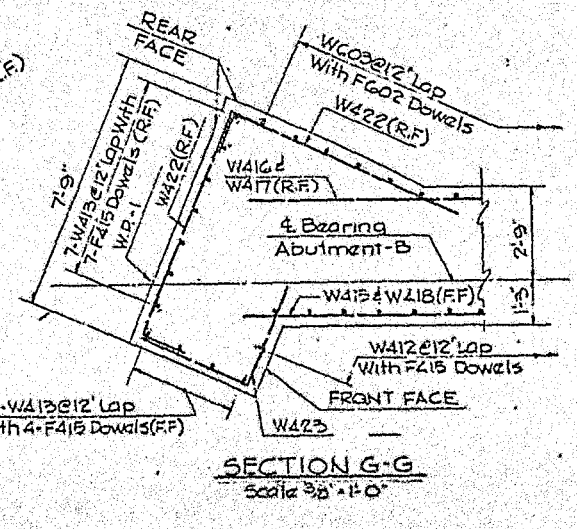
ELEVATION
Scale ¼" = 1'-0"



SECTION E-E
Scale 3/8" = 1'-0"

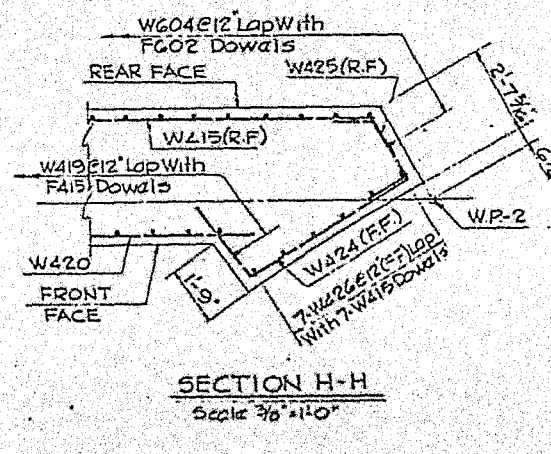


SECTION F-F
Scale 3/8" = 1'-0"



SECTION G-G
Scale 3/8" = 1'-0"

NOTE:
Max. Allowable Soil Pressure 3 Tons Per Sq. Ft.
Max. Design Soil Pressure 2.1 Tons Per Sq. Ft.



SECTION H-H
Scale 3/8" = 1'-0"

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

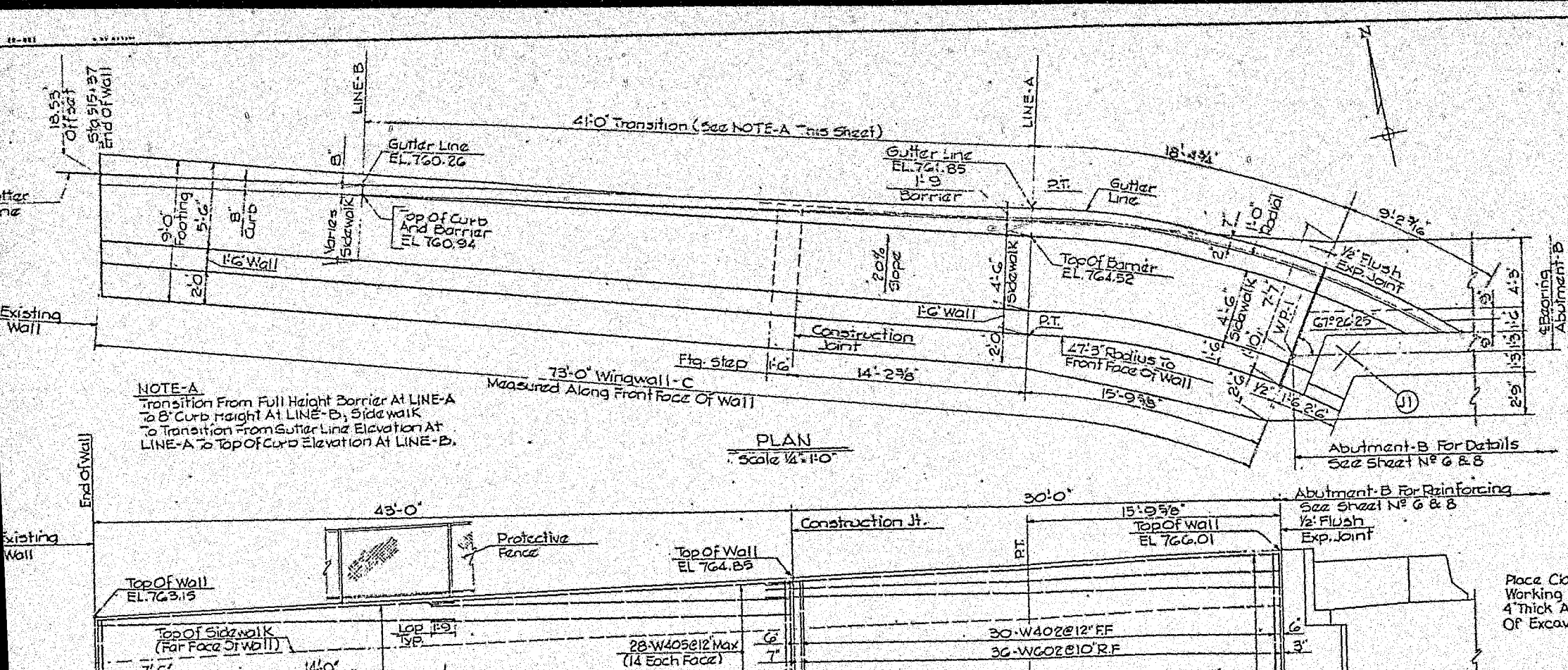
ALLEGHENY COUNTY GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
ABUT-B & WALL-D PLAN & ELEVATION

RECOMMENDED _____
BRIDGE ENGINEER

SHEET 6 OF 32

S-16201



NOTE:
Max. Allowable Soil Pressure 3 Tons Per Sq. Ft.
Max. Design Soil Pressure 2.1 Tons Per Sq Ft.

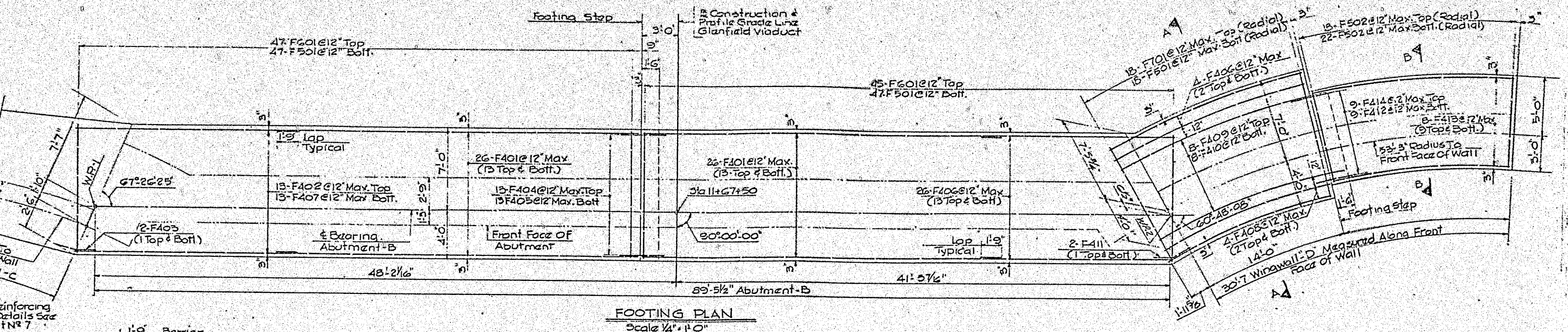
Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

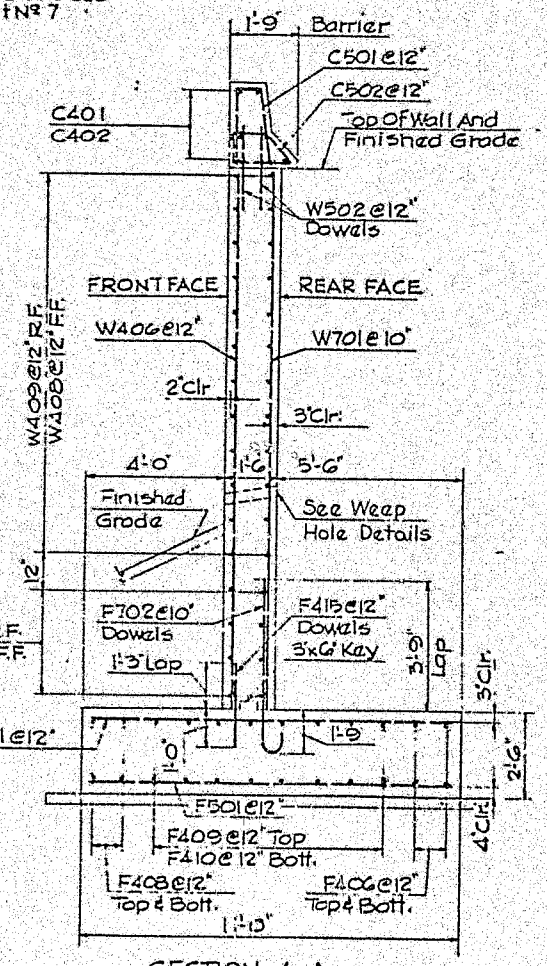
ALLEGHENY COUNTY
GLENFIELD VIADUCT
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
WALL-C PLAN, ELEV. & SECTION

RECOMMENDED _____
BRIDGE ENGINEER

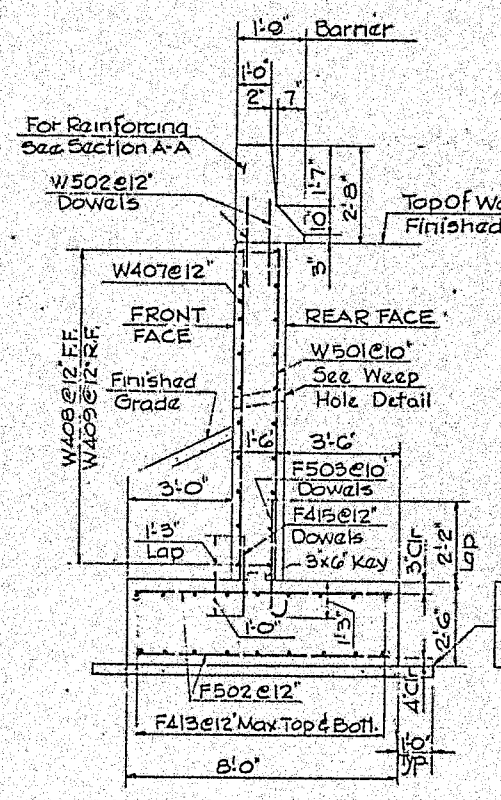
SHEET 7 OF 39



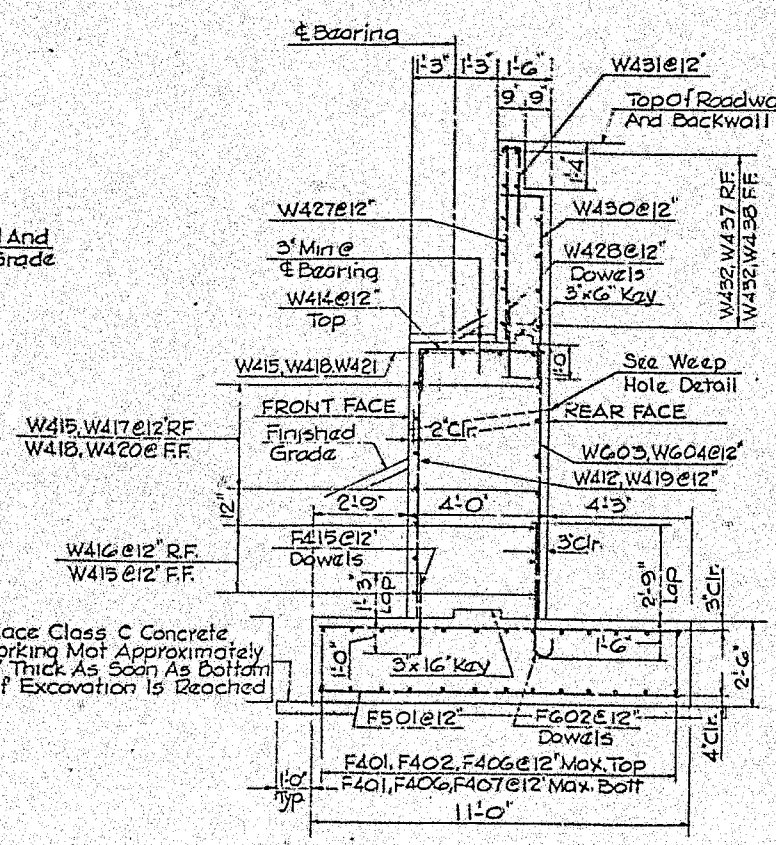
FOOTING PLAN
Scale 1/4" = 1'-0"



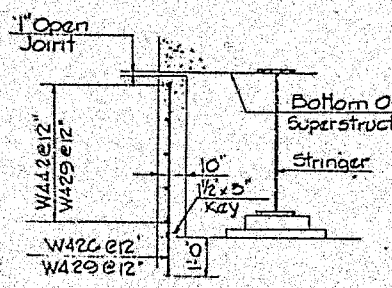
SECTION A-A
Scale 3/8" = 1'-0"



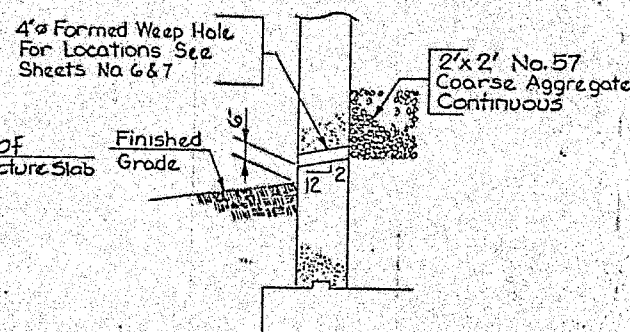
SECTION B-B
Scale 3/8" = 1'-0"



TYPICAL SECTION THRU ABUTMENT-B
Scale 3/8" = 1'-0"



SECTION J-J
Scale 3/8" = 1'-0"



WEEP HOLE DETAIL
Scale: 3/8" = 1'-0"

Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
ABUT.-B & WALL-D SECTIONS & DETAILS

RECOMMENDED _____
BRIDGE ENGINEER

SHEET 8 OF 32
S-16201

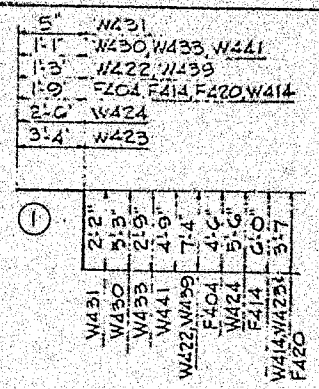
BAR SCHEDULE

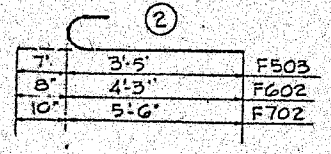
SIZE	TYPE	NUMBER ABUT-B	NUMBER WALL-C	NUMBER WALL-D	LENGTH	REMARKS
4	Str.	52	18		30'-0"	
4	Str.	13			20'-0"	
	3	2			5'-5"	
	1	13			6'-3"	
	4	13			7'-9"	
	Str			4	17'-6"	
	Str	13			18'-6"	
	Str.			4	14'-9"	
	Str.			8	17'-0" To 18'-9"	Vary 1 Ea By 3"
	Str.			8	15'-0 To 16'-9"	Vary 1 Ea By 3"
	3	2			3'-6"	
	4			9	9'-9"	
	Str.			18	15'-4" To 17'-4"	Vary 2 Ea By 3"
	1			9	7'-9"	
	Str.	97	73	31	2'-3"	
	Str		18		30'-0 To 32'-4"	Vary 2 Ea By 3½"
	Str		2		15'-6"	
	Str.		6		17'-0"	
	Str		18		14'-3" To 14'-11"	Vary 2 Ea By 1"
	1		9		5'-3"	
	4		9		7'-0"	
	Str.	96		18	10'-6"	
	Str			40	7'-6"	
	2			20	4'-0"	
	Str.		19		8'-6 To 11'-6"	Vary 1 Ea By 2"
	Str.		58		8'-6"	
	Str	92			10'-6"	
	2	88	87		4'-11"	
	Str.			18	10'-6"	
	2			17	6'-4"	
	Str.		19		8'-6 To 11'-6"	Vary 1 Ea. By 2"
	Str		57		8'-6"	
	Str		43		11'-11" To 13'-8"	Vary 1 Ea. By ½"
	Str.		30		15'-0½ To 16'-3	Vary 1 Ea. By ½"
	Str		30		31'-6"	
	Str.		4		29'-6"	
	Str.		54		22'-3"	
	Str			14	12'-8 To 13'-2½"	Vary 1 Ea By ½"
	Str.			17	9'-2" To 9'-10"	Vary 1 Ea By ½"
	Str.			20	16'-0"	
	Str.			20	16'-4"	
	Str			4	13'-8"	
	Str			4	14'-0"	
	Str	43			7'-0 To 8'-3¾"	Vary 1 Ea By 3/8"
	Str.	11			7'-0"	
	1	82			5'-4"	
	Str.	22			22'-0"	
	Str.	13			20'-0"	
	Str.	9			21'-0"	
	Str	17			23'-0"	
	Str.	40			5'-10¼ To 6'-8"	Vary 1 Ea By ¼"
	Str	12			20'-6"	
	Str.	4			19'-0 To 22'-0"	Vary 1 Ea By .2"
	1	16			8'-7"	
	1	8			7'-0"	
	1	7			8'-0"	
	7	7			4'-9"	
	Str	7			6'-9"	
	Str	108			5'-7"	

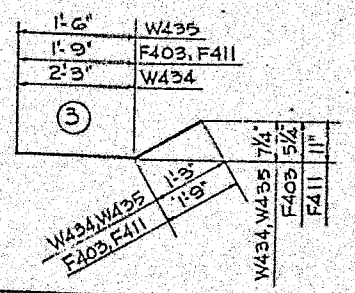
MARK	SIZE	TYPE	NUMBER ABUT-B	NUMBER WALL-C	NUMBER WALL-D	LENGTH	REMARKS
* W428	#4	Str	108			2'-3"	
* W429	#4	Str	8			5'-5"	
* W430	#4	1	82			6'-4"	
* W431	#4	1	79			2'-7"	
* W432	#4	Str	24			22'-2"	
* W433	#4	1	6			3'-10"	
* W434	#4	3	4			3'-6"	
* W435	#4	3	2			2'-9"	
* W436	#4	Str.	5			5'-6"	
* W437	#4	Str.	12			21'-0"	
* W438	#4	Str.	12			24'-0"	
* W439	#4	1	6			8'-7"	
* W440	#4	Str.	6			7'-4"	
* W441	#4	1	6			5'-10"	
* W442	#4	Str.	5			3'-7"	
* W443	#4	8	4			3'-6"	
W501	#5	Str.			20	9'-3" To 9'-10⅛"	Vary 1 Ea. By 3/8"
* W502	#5	Str.			62	2'-6"	
* W503	#5	Str.	4			3'-3"	
WG01	#6	Str.		52		12'-0" To 13'-7⅛"	Vary 1 Each By 3/8"
WG02	#6	Str.		36		15'-2 To 16'-3⅛"	Vary 1 Each By 3/8"
WG03	#6	Str.	43			6'-11" To 8'-3⅛"	Vary 1 Each By 3/8"
WG04	#6	Str.	44			5'-10¼ To 6'-9"	Vary 1 Each By ¼"
W701	#7	Str.			17	12'-8 To 13'-2"	Vary 1 Ea By 3/8"
* C401	#4	Str.			6	13'-8"	
* C402	#4	Str.			6	16'-2"	
* C403	#4	Str.	1			8'-5"	
* C404	#4	Str.	2			7'-4"	
* C405	#4	Str.	3			6'-0"	
* C406	#4	Str.	6			1'-2"	
* C501	#5	5			32	5'-3"	
* C502	#5	6			32	5'-3"	
* C503	#5	5	1			7'-9"	
* C504	#5	5	1			7'-3"	
* C505	#5	5	1			7'-1"	
* C506	#5	5	8			6'-11"	
* C507	#5	9	1			5'-8"	
* C508	#5	9	1			5'-0"	
* C509	#5	9	1			4'-6"	
* C510	#5	9	8			4'-2"	

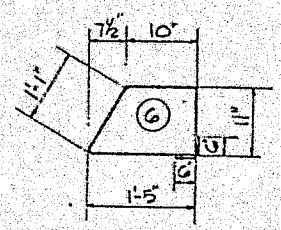
NOTE:
* Denotes Epoxy Coated Bars

BAR TYPES

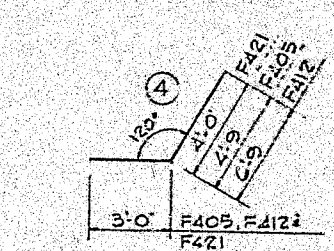


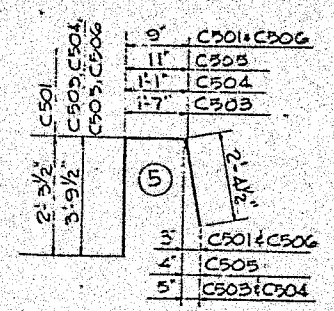


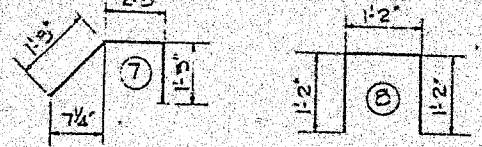


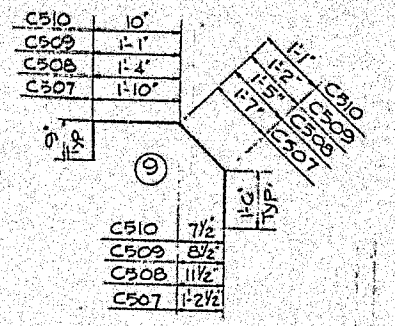


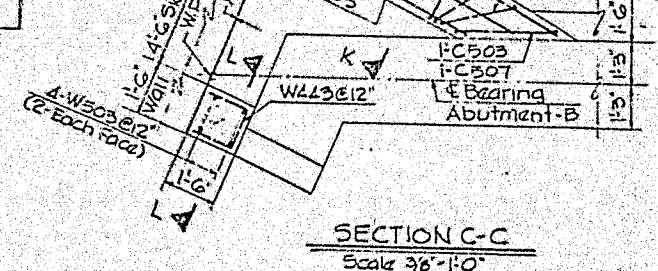
NOTE: All Bar Dimensions Are Out To Out



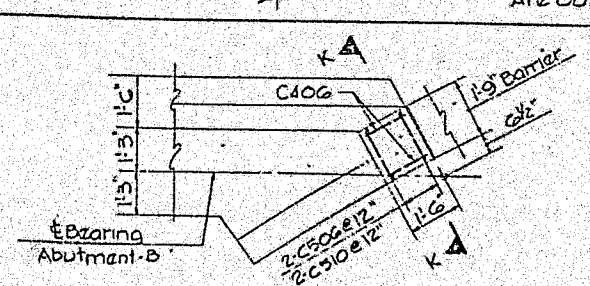




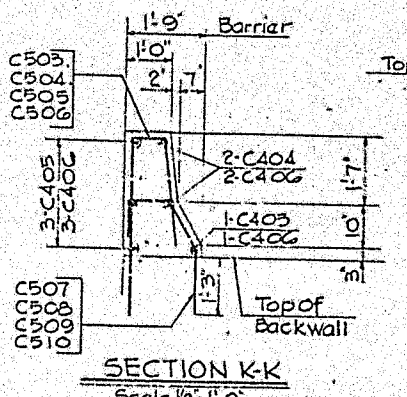




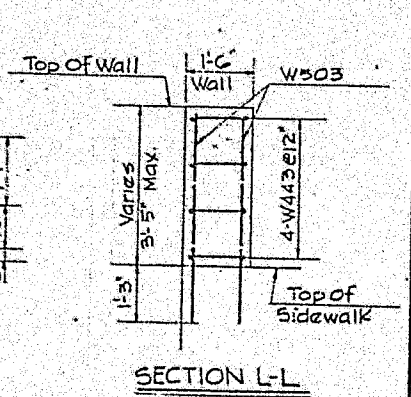
SECTION C-C
Scale 3/8"=1'-0"



SECTION D-D
Scale 3/8"=1'-0"



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



SECTION L-L
Scale ½"=1'-0"

Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT
GLENFIELD VIADUCT STA. 9+88.80 OVER
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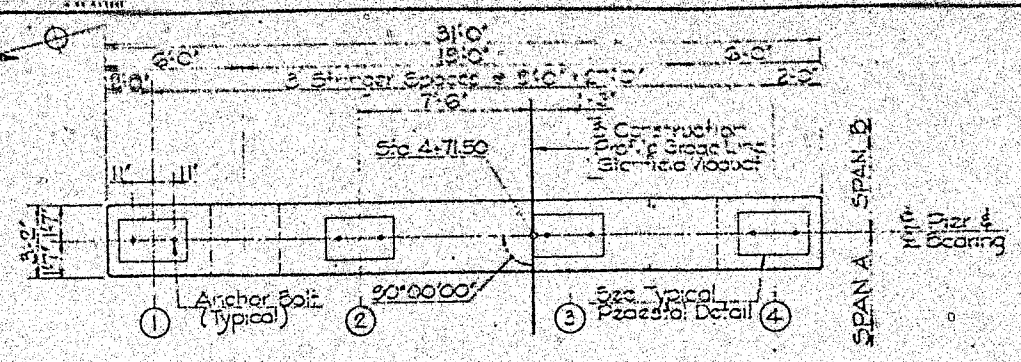
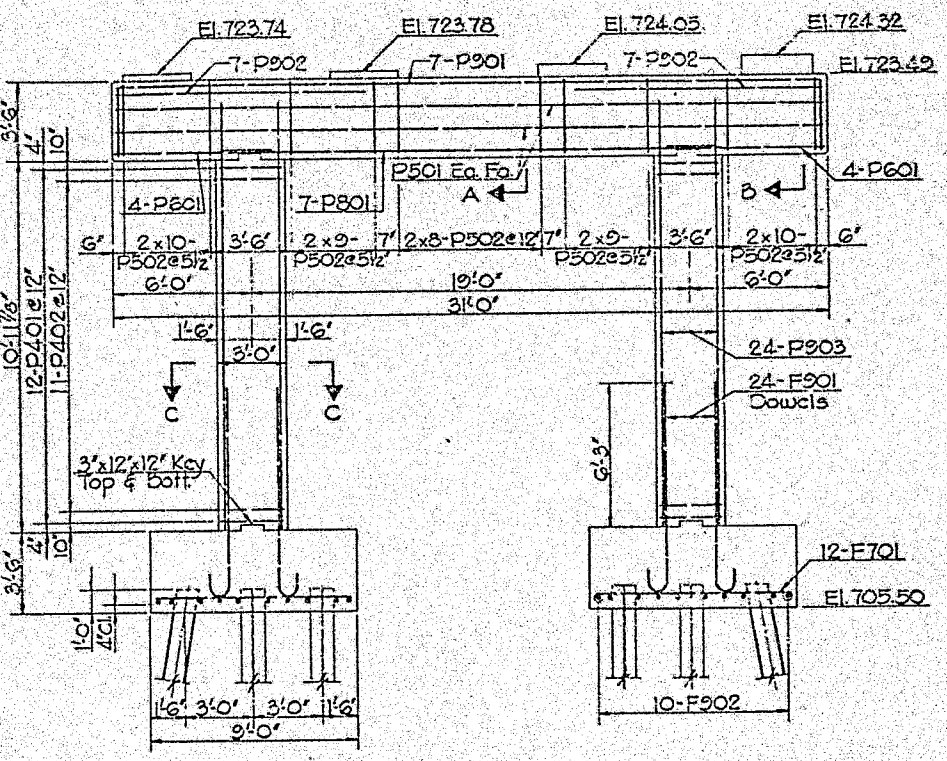
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
ABUT.-B & WALLS C & D DETAILS & SCHEDULE

RECOMMENDED _____
BRIDGE ENGINEER

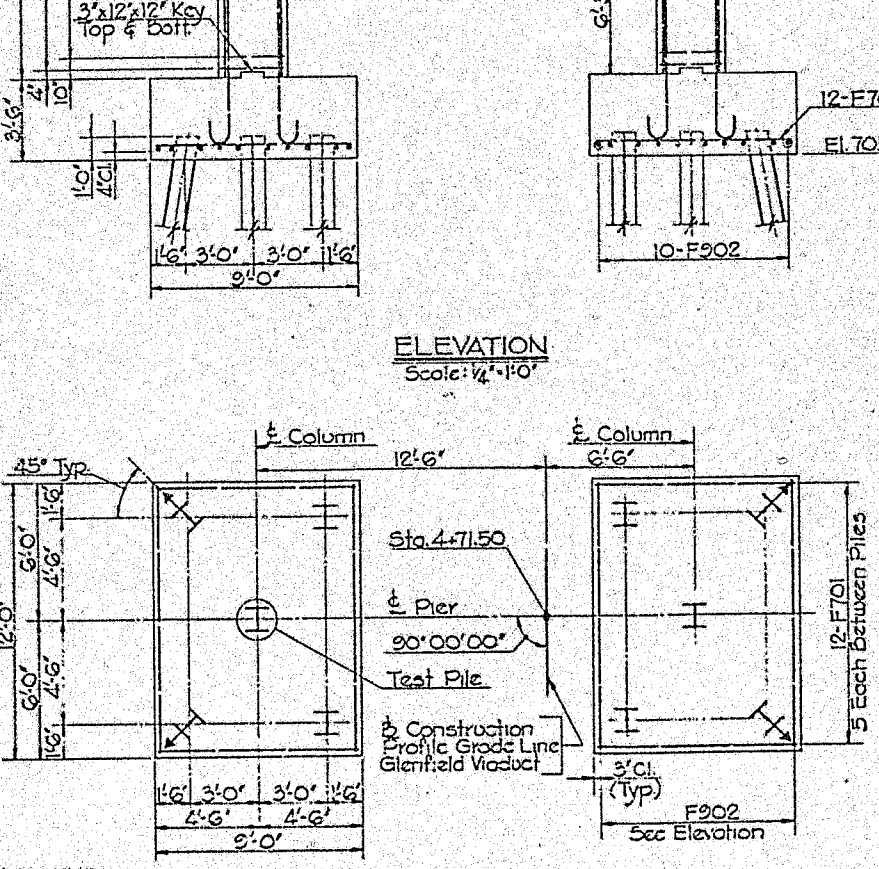
SHEET 10 OF 39
S-16201



PLAN
Scale: ¼"=1'-0"

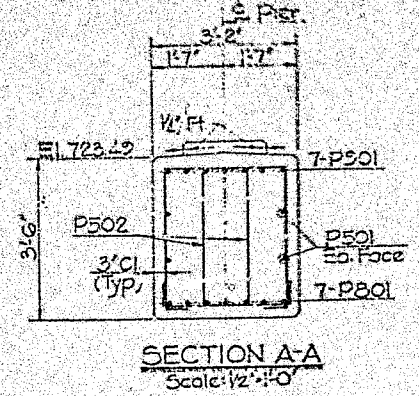


ELEVATION
Scale: ¼"=1'-0"

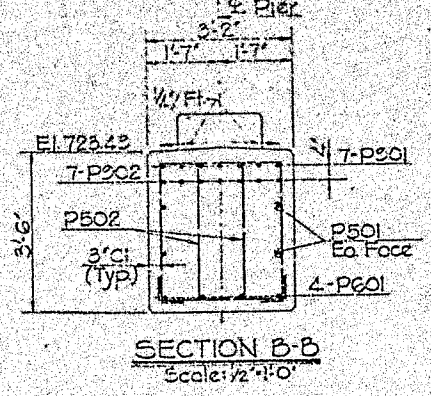


FOOTING PLAN
Scale: ½"=1'-0"

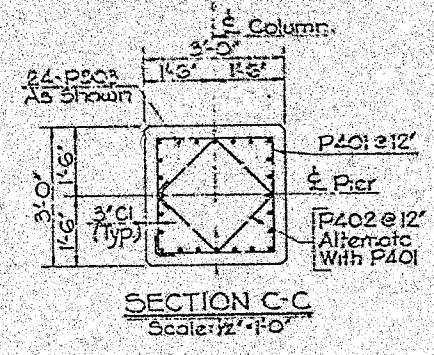
LEGEND
- ⊕ Piles Plumb Piles
- ⊕ Piles Battered Piles 3:12
- ⊕ Piles Shall Be HP 12x74



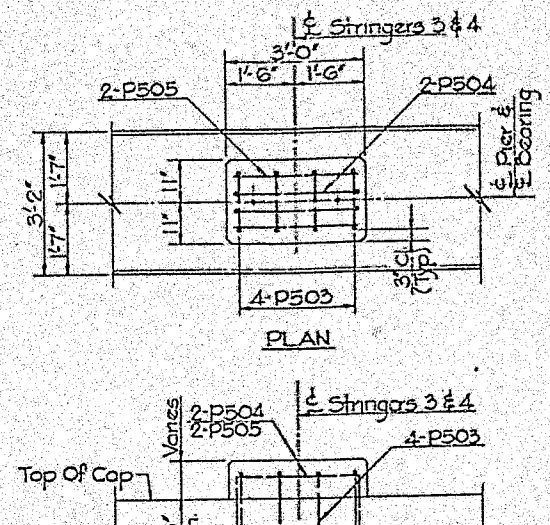
SECTION A-A
Scale: ½"=1'-0"



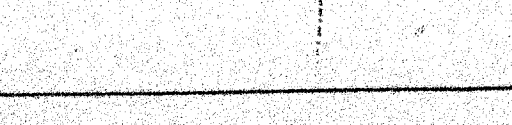
SECTION B-B
Scale: ½"=1'-0"



SECTION C-C
Scale: ½"=1'-0"



PLAN



ELEVATION

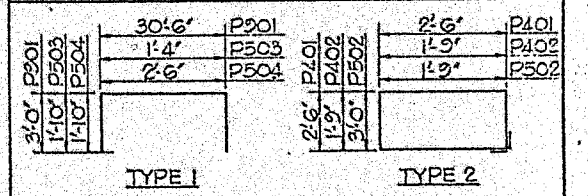
PEDESTAL DETAILS
Scale: ½"=1'-0"

PILE NOTES
Maximum Allowable Pile Load 98 Tons
Maximum Design Pile Load 89 Tons
Estimated Pile Tip El. 664.00

BAR SCHEDULE

MARK	SIZE	TYPE	NO.	LENGTH	CLASS
P401	4	2	24	10'5"	
P402	4	2	22	7'3"	
P501	5	Str.	4	30'6"	
P502	5	2	92	9'8"	
P503	5	1	8	5'0"	
P504	5	1	4	6'2"	
P505	5	Str.	4	2'6"	
P601	6	Str.	8	6'9"	
P801	8	Str.	7	20'11"	
P901	9	1	7	36'6"	
P902	9	Str.	14	10'9"	
P903	9	Str.	48	13'6"	
F701	7	Str.	24	8'6"	
F901	9	3	43	10'6"	
F902	9	Str.	20	11'6"	

BAR TYPES



Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

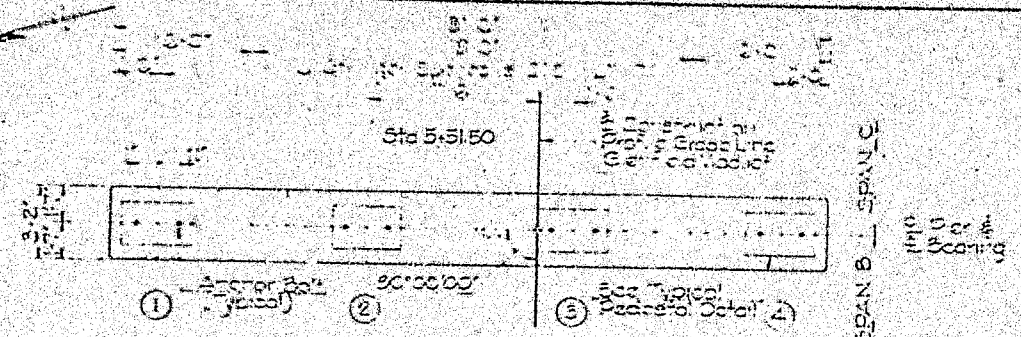
Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT

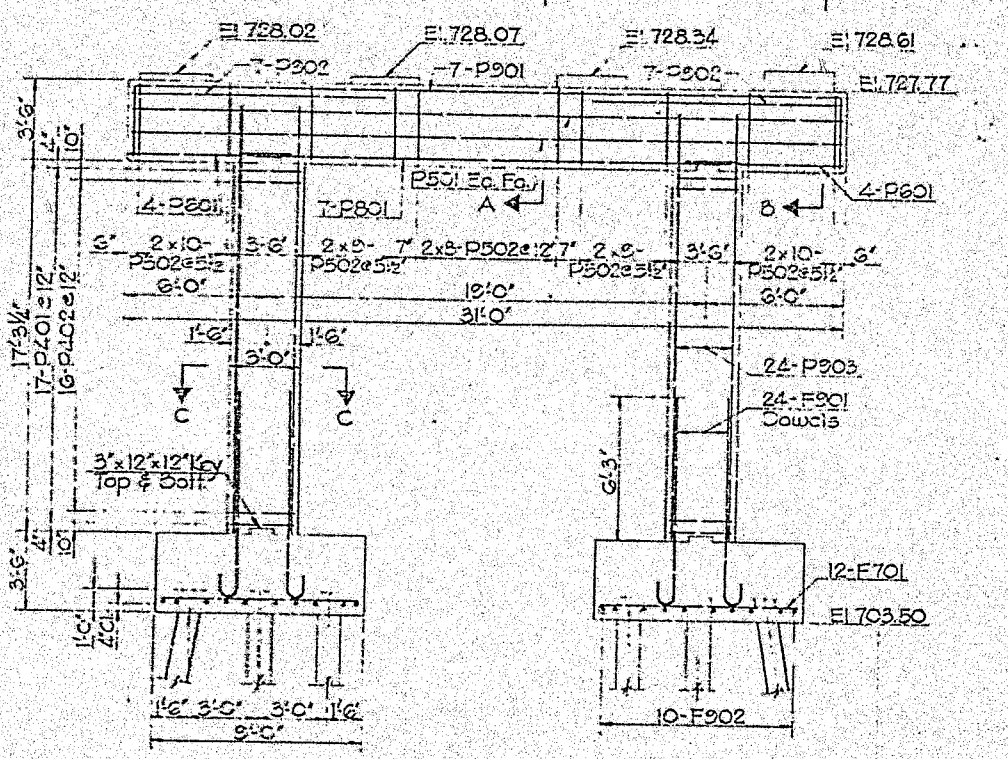
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
PIER NO. 1

RECOMMENDED _____
BRIDGE ENGINEER

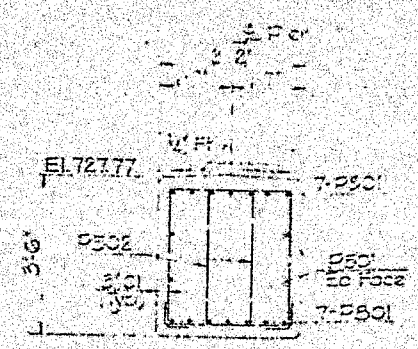
SHEET 10 OF 39
S-16201



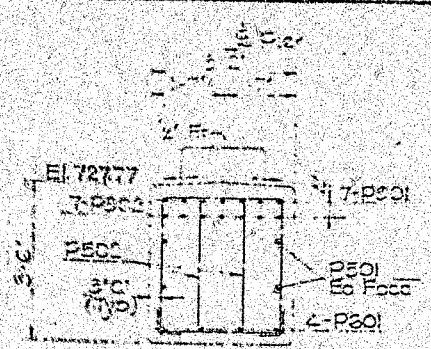
PLAN
Scale: 1/4"=1'0"



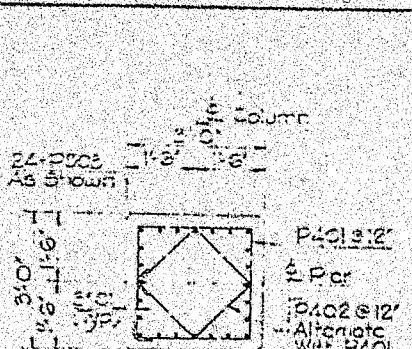
ELEVATION
Scale: 1/4"=1'0"



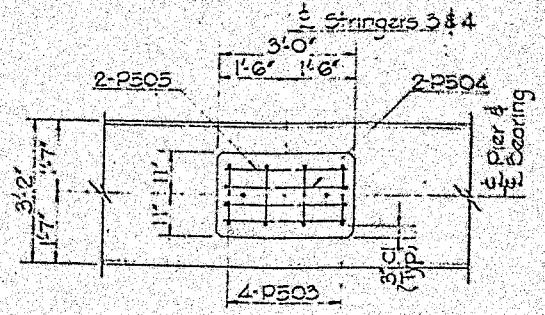
SECTION A-A
Scale: 1/2"=1'0"



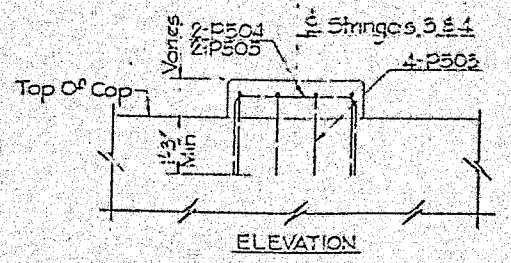
SECTION B-B
Scale: 1/2"=1'0"



SECTION C-C
Scale: 1/2"=1'0"

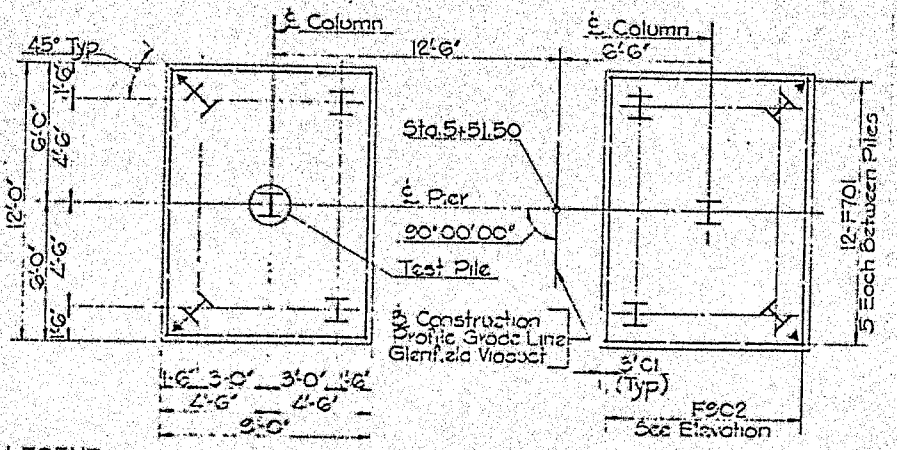


PLAN



ELEVATION

PEDESTAL DETAILS
Scale: 1/2"=1'0"



FOOTING PLAN
Scale: 1/2"=1'0"

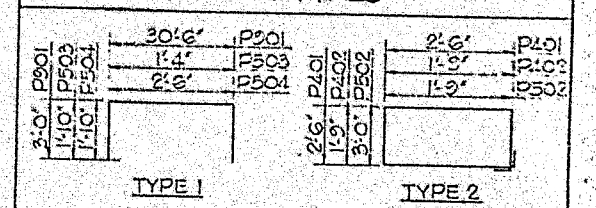
PILE NOTES
Maximum Allowable Pile Load 98 Tons
Maximum Design Pile Load 89 Tons
Estimated Pile Tip El. 665.00

LE LEGEND
notes Plumb Piles
notes Battered Piles 3:12
Piles Shall Be HP12x74

BAR SCHEDULE

MARK	SIZE	TYPE	NO	LENGTH	REMARKS
P401	4	2	34	10'6"	
P402	4	2	32	7'9"	
P501	5	Str	2	30'6"	
P502	5	2	92	9'8"	
P503	5	1	8	5'10"	
P504	5	1	4	3'2"	
P505	5	Str	4	2'6"	
P601	6	Str	8	6'9"	
P501	8	Str	7	20'11"	
P801	8	1	7	36'6"	
P802	8	Str	14	10'5"	
P803	8	Str	28	19'0"	
F701	7	Str	24	8'6"	
F901	9	3	48	10'6"	
F902	9	Str	20	11'6"	

BAR TYPES



Mark	Description	By	Chk'd.	App'd	Date
REVISIONS					

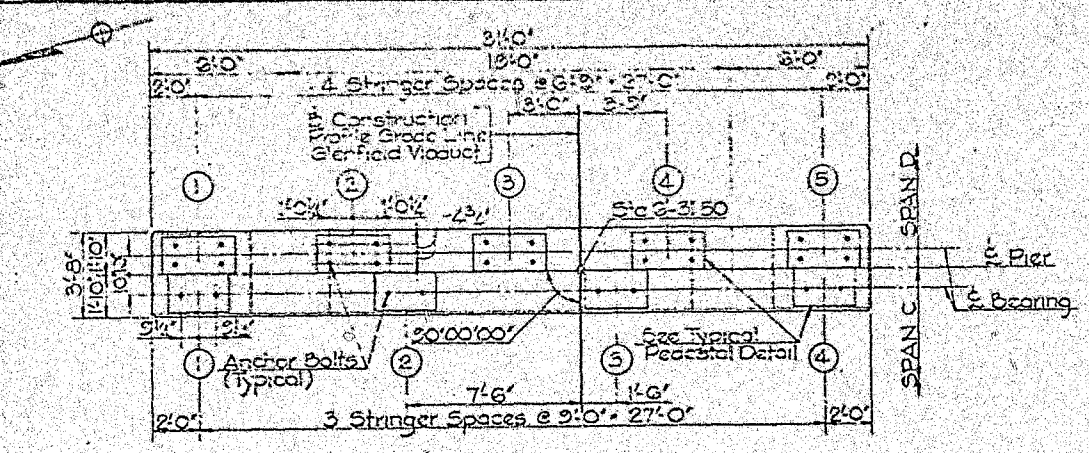
Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT

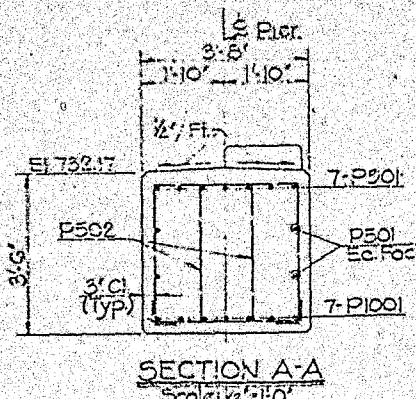
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
PIER NO. 2

RECOMMENDED _____
BRIDGE ENGINEER

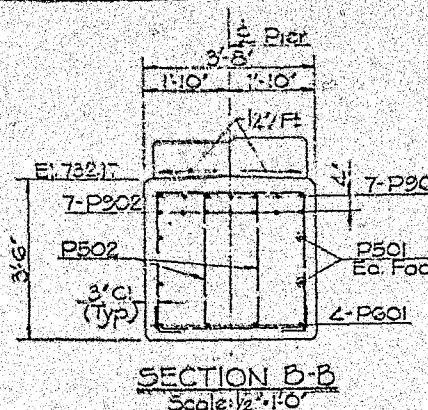
SHEET 7 OF 39
S-16201



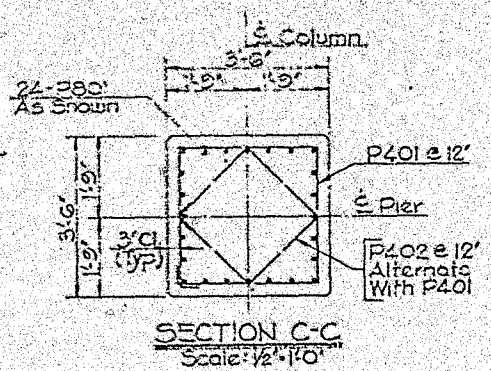
PLAN
Scale: ¼" = 1'-0"



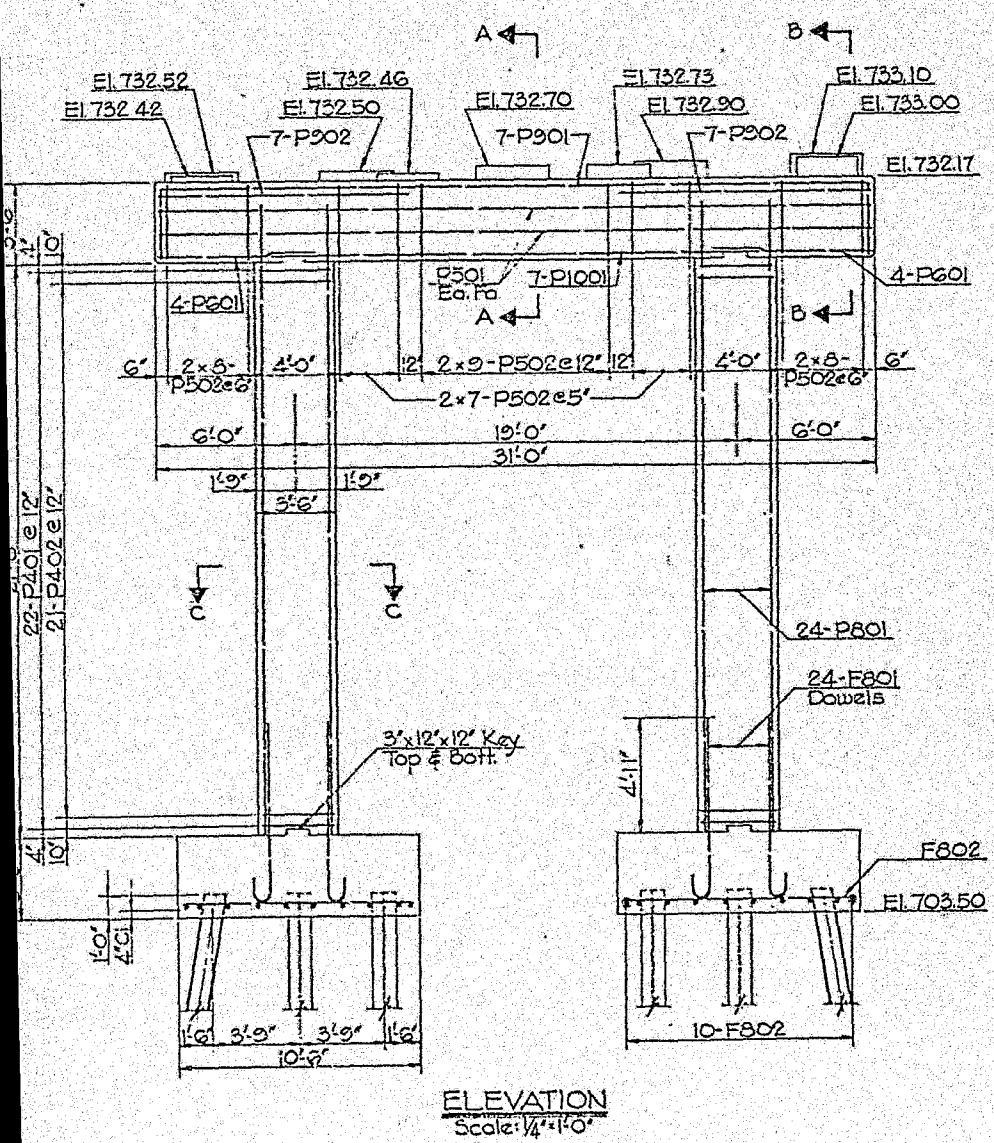
SECTION A-A
Scale: ½" = 1'-0"



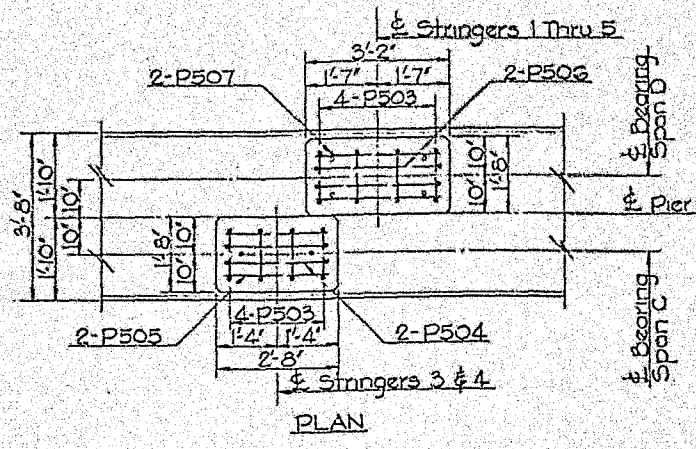
SECTION B-B
Scale: ½" = 1'-0"



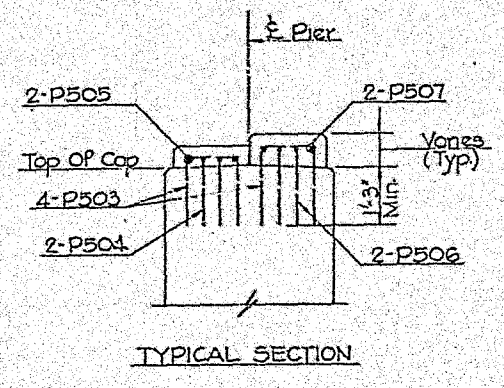
SECTION C-C
Scale: ½" = 1'-0"



ELEVATION
Scale: ¼" = 1'-0"

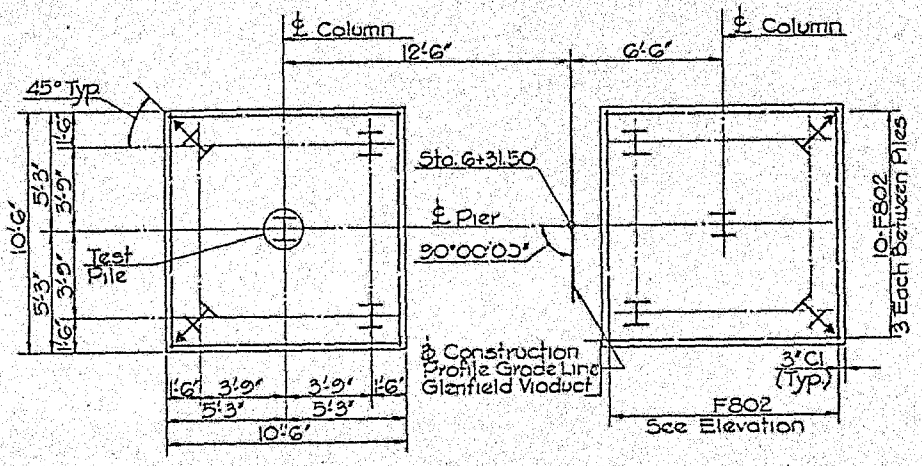


PLAN



TYPICAL SECTION

PEDESTAL DETAILS
Scale: ½" = 1'-0"



FOOTING PLAN
Scale: ¼" = 1'-0"

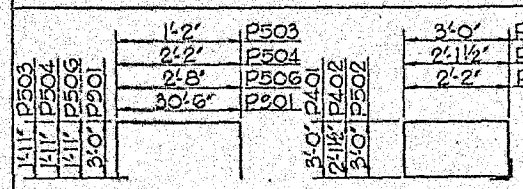
PILE LEGEND
- I Denotes Plumb Piles
- I Denotes Battered Piles 5:12
- All Piles Shall Be HP 12x74

PILE NOTES
- Maximum Allowable Pile Load 98 Tons
- Maximum Design Pile Load 94 Tons
- Estimate Pile Tip El. 688.00

BAR SCHEDULE

MARK	SIZE	TYPE	NO.	LENGTH	REMARKS
P401	4	2	44	12'-9"	
P402	4	2	42	9'-3"	
P501	5	Str.	4	30'-6"	
P502	5	2	78	11'-4"	
P503	5	1	28	5'-0"	
P504	5	1	4	6'-0"	
P505	5	Str.	4	2'-2"	
P506	5	1	10	6'-6"	
P507	5	Str.	10	2'-8"	
P601	6	Str.	8	6'-9"	
P801	8	Str.	48	24'-2"	
P901	9	1	7	36'-6"	
P902	9	Str.	14	10'-9"	
P1001	10	Str.	7	20'-11"	
F801	8	3	48	8'-10"	
F802	8	Str.	40	10'-0"	

BAR TYPES



Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

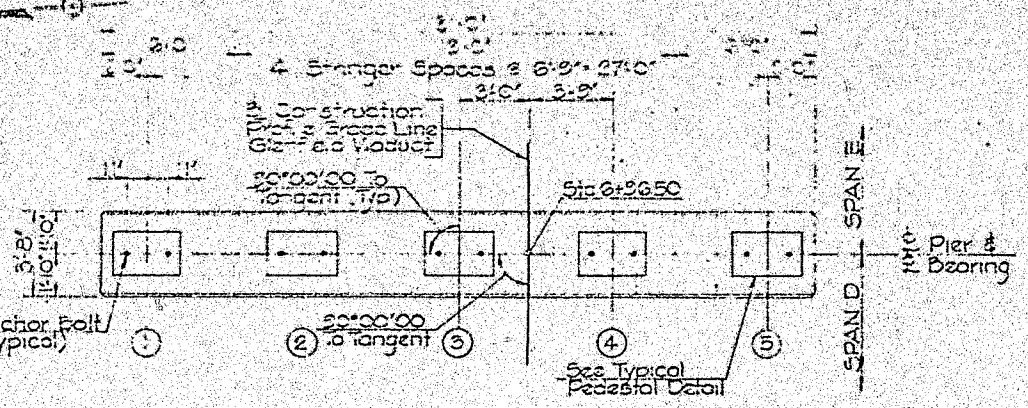
Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT

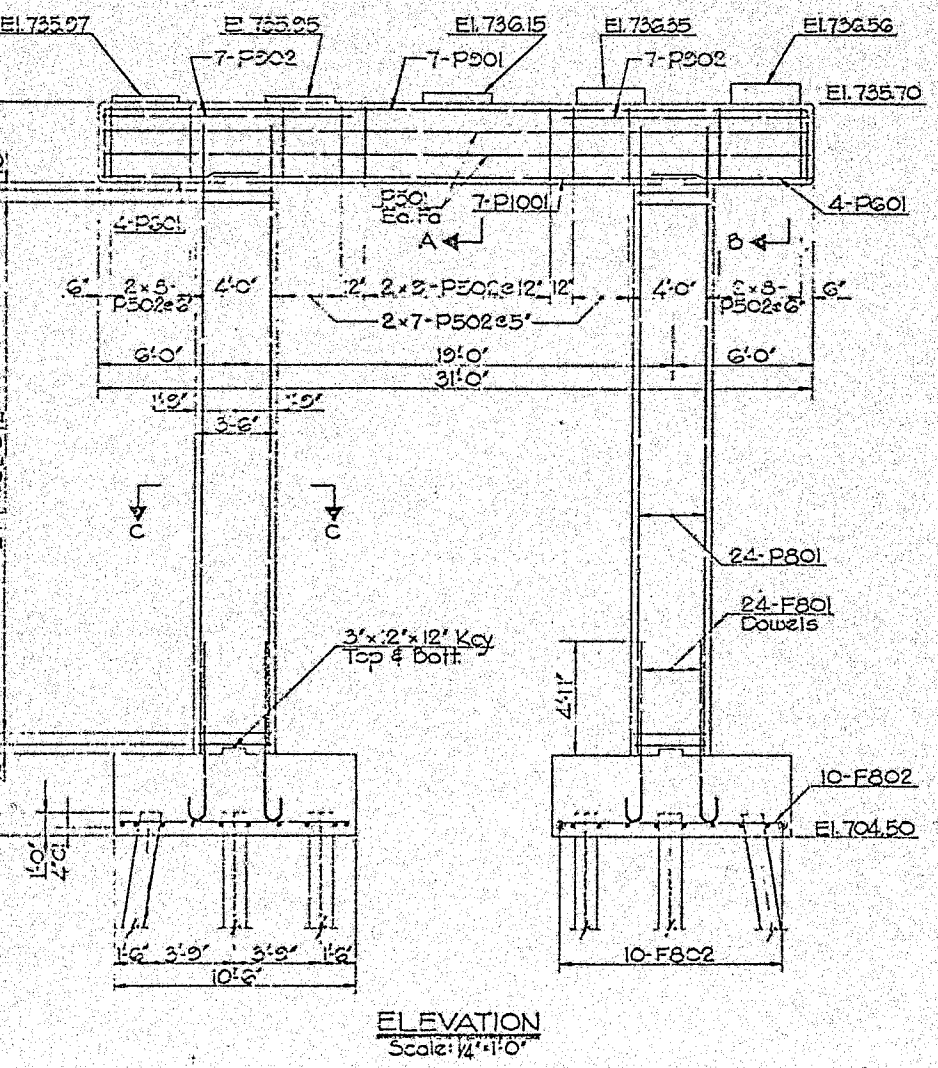
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
PIER NO. 3

RECOMMENDED _____
BRIDGE ENGINEER

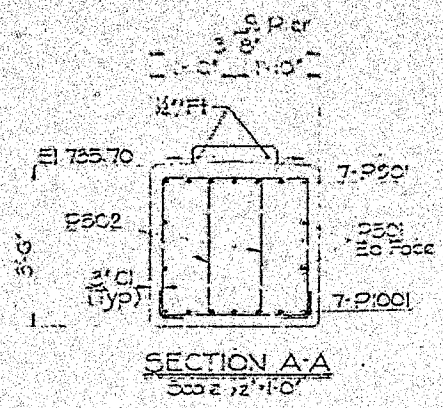
SHEET 12 OF 39
S-16201



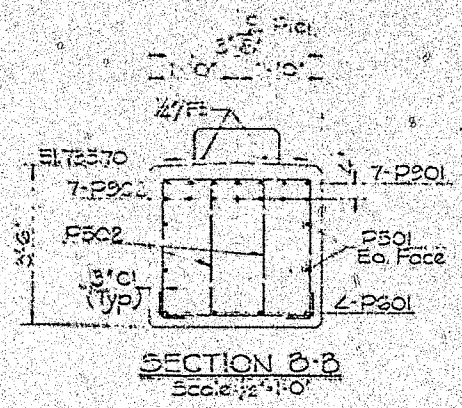
PLAN
Scale: 1/4" = 1'-0"



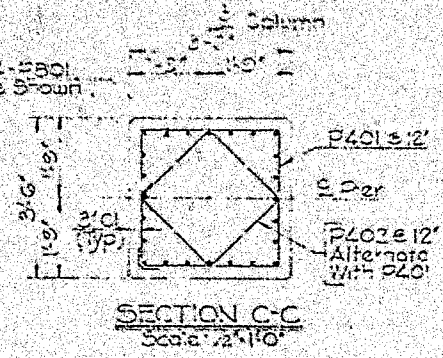
ELEVATION
Scale: 1/4" = 1'-0"



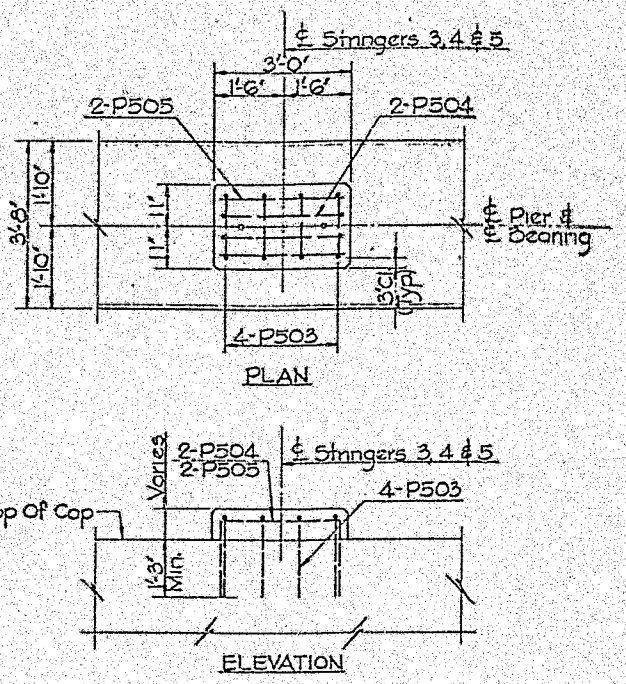
SECTION A-A
Scale: 1/2" = 1'-0"



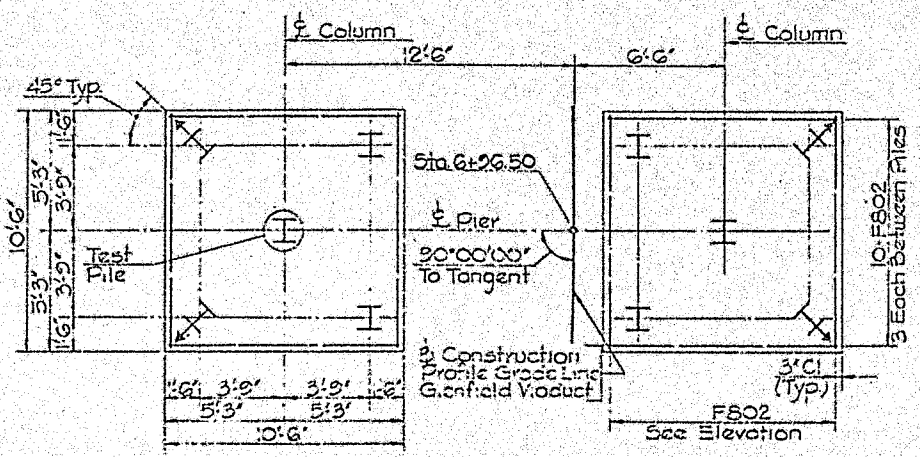
SECTION B-B
Scale: 1/2" = 1'-0"



SECTION C-C
Scale: 1/2" = 1'-0"



PEDESTAL DETAILS
Scale: 1/2" = 1'-0"



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

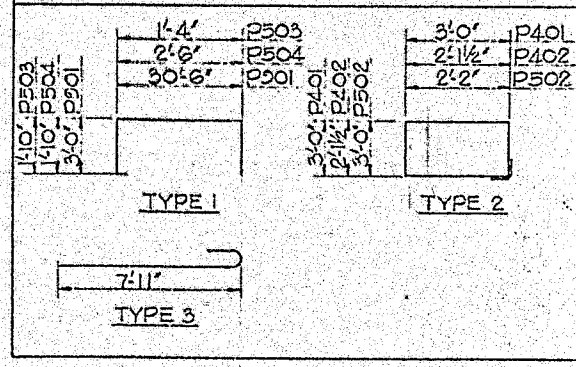
PILE LEGEND
- Denotes Plumb Piles
- Denotes Battered Pile 3:12
- All Piles Shall Be HP 12 x 74

PILE NOTES
- Maximum Allowable Pile Load 58 Tons
- Maximum Design Pile Load 54 Tons
- Estimated Pile Tip El. 667.00

BAR SCHEDULE

MARK	SIZE	TYPE	NO	LENGTH	REMARKS
P401	4	2	30	2'-5"	
P402	4	2	48	2'-3"	
P501	5	Str	4	30'-6"	
P502	5	2	78	11'-4"	
P503	5	1	12	3'-0"	
P504	5	1	6	6'-2"	
P505	5	Str	6	2'-6"	
P601	6	Str	8	6'-3"	
P801	8	Str	48	26'-9"	
P301	3	1	7	36'-6"	
P302	3	Str	14	10'-9"	
P1001	10	Str	7	20'-11"	
F801	8	3	48	8'-10"	
F802	8	Str	40	10'-0"	

BAR TYPES



Mark	Description	By	Chk'd	App'd.	Date
REVISIONS					

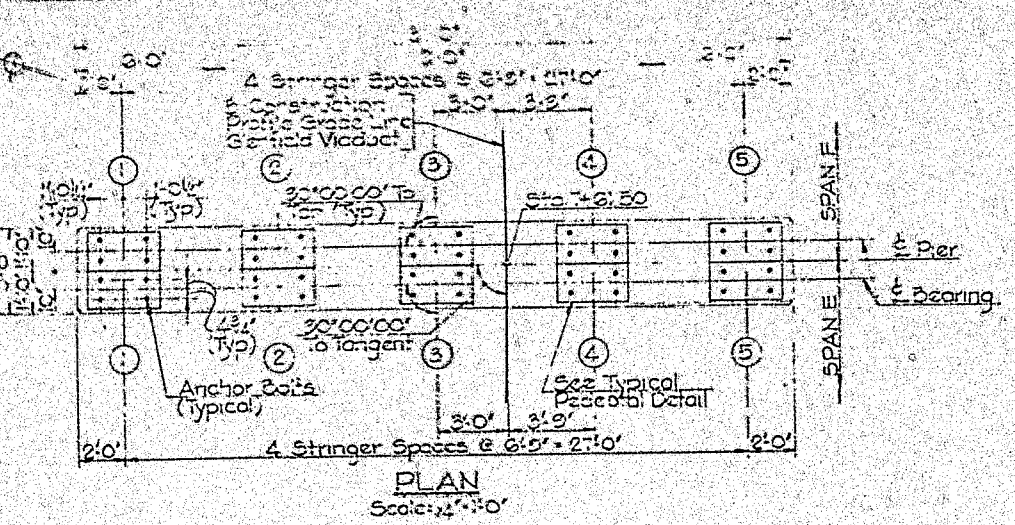
Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY GLENFIELD VIADUCT

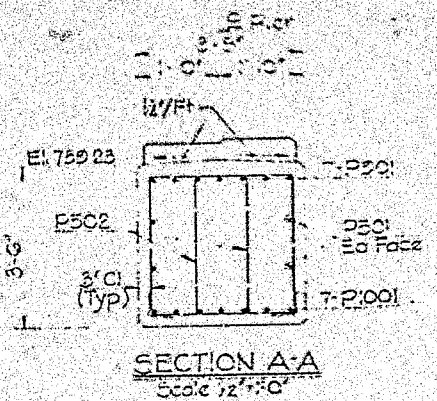
GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
PIER NO. 4

RECOMMENDED _____
BRIDGE ENGINEER

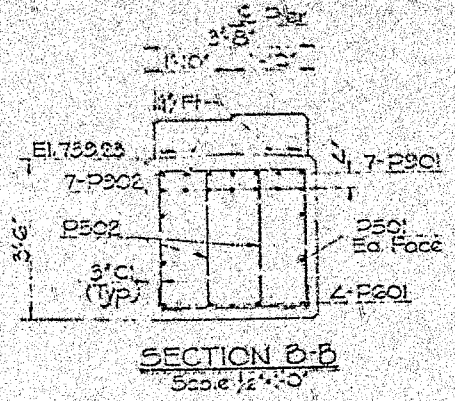
SHEET 13 OF 33
S-16201



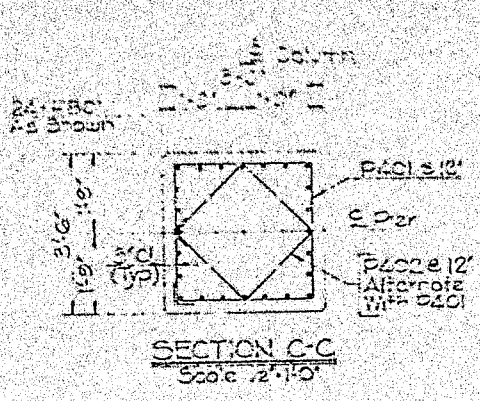
PLAN
Scale: 1/4"=1'-0"



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



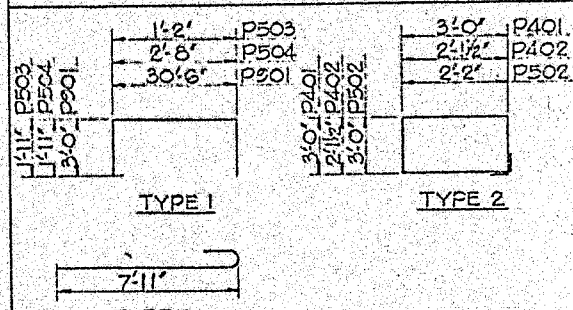
SECTION B-B
Scale: 1/2"=1'-0"



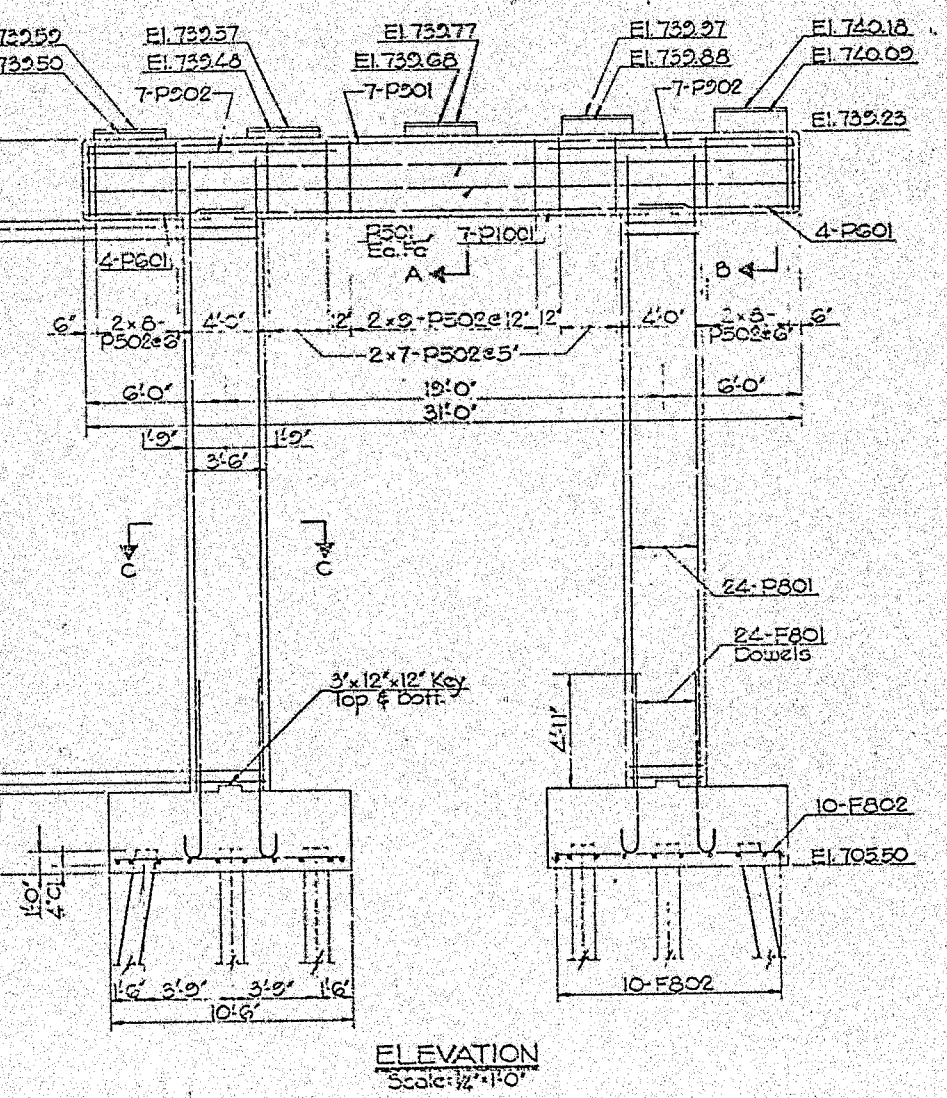
SECTION C-C
Scale: 1/2"=1'-0"

MARK	SIZE	TYPE	NO	LENGTH	REMARKS
P401	4	2	54	2'-6"	
P402	4	2	52	9'-5"	
P501	5	5tr	4	30'-6"	
P502	5	2	78	11'-2"	
P503	5	1	32	5'-3"	
P504	5	1	16	6'-6"	
P505	5	5tr	16	2'-8"	
P601	6	5tr	8	6'-9"	
P801	8	5tr	48	29'-3"	
P901	9	1	7	36'-6"	
P902	9	5tr	14	10'-9"	
P1001	10	5tr	7	20'-11"	
F801	8	3	48	8'-10"	
F802	8	5tr	40	10'-0"	

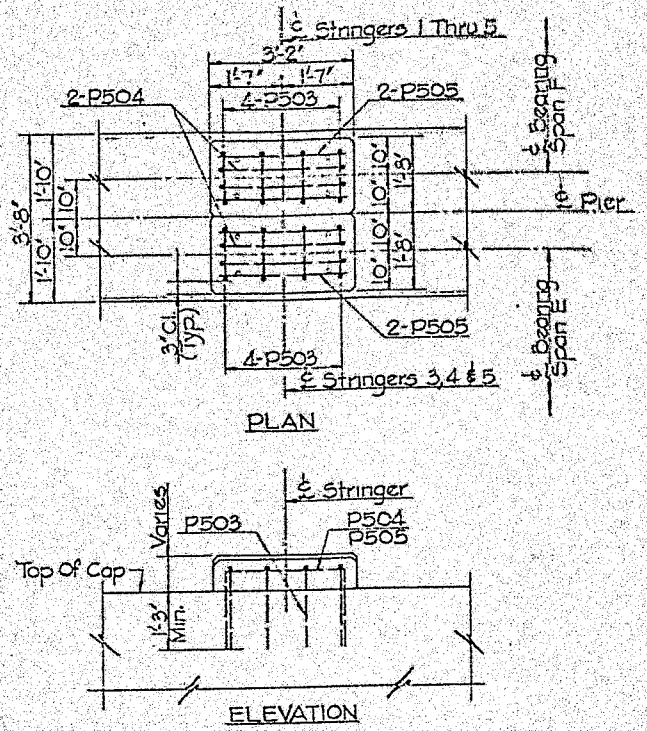
BAR TYPES



TYPE 1 TYPE 2 TYPE 3



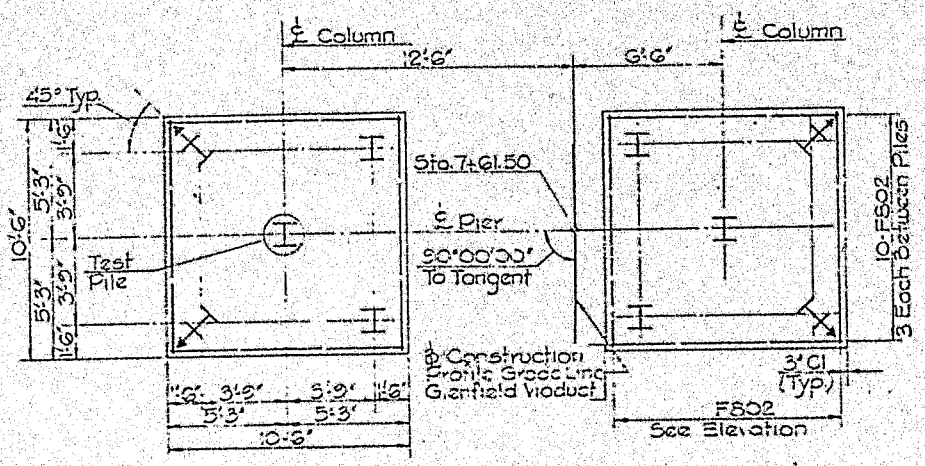
ELEVATION
Scale: 1/4"=1'-0"



PLAN

ELEVATION

PEDESTAL DETAILS
Scale: 1/2"=1'-0"



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

PILE LEGEND
I Denotes Plumb Piles
I Denotes Battered Piles 3:12
All Piles Shall Be HP12x74

PILE NOTES
Maximum Allowable Pile Load 98 Tons
Maximum Design Pile Load 94 Tons
Estimated Pile Tip El. 663.00

Mark	Description	By	Chk'd	App'd.	Date
	REVISIONS				

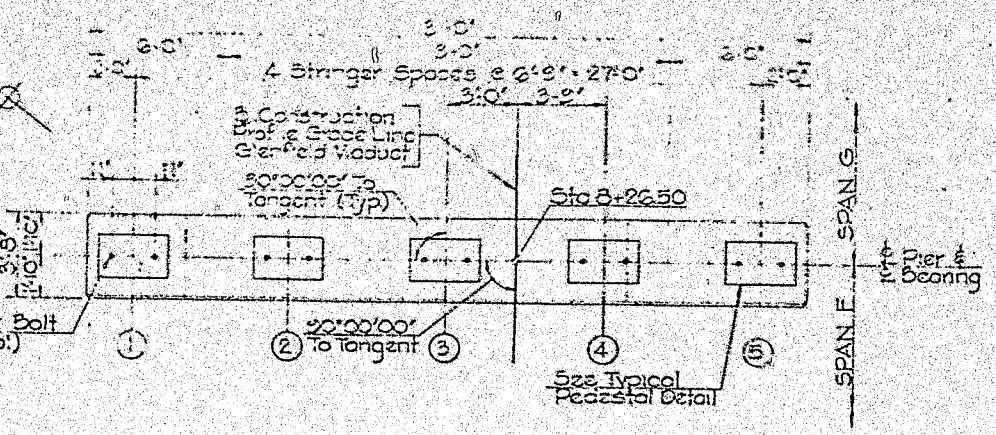
Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

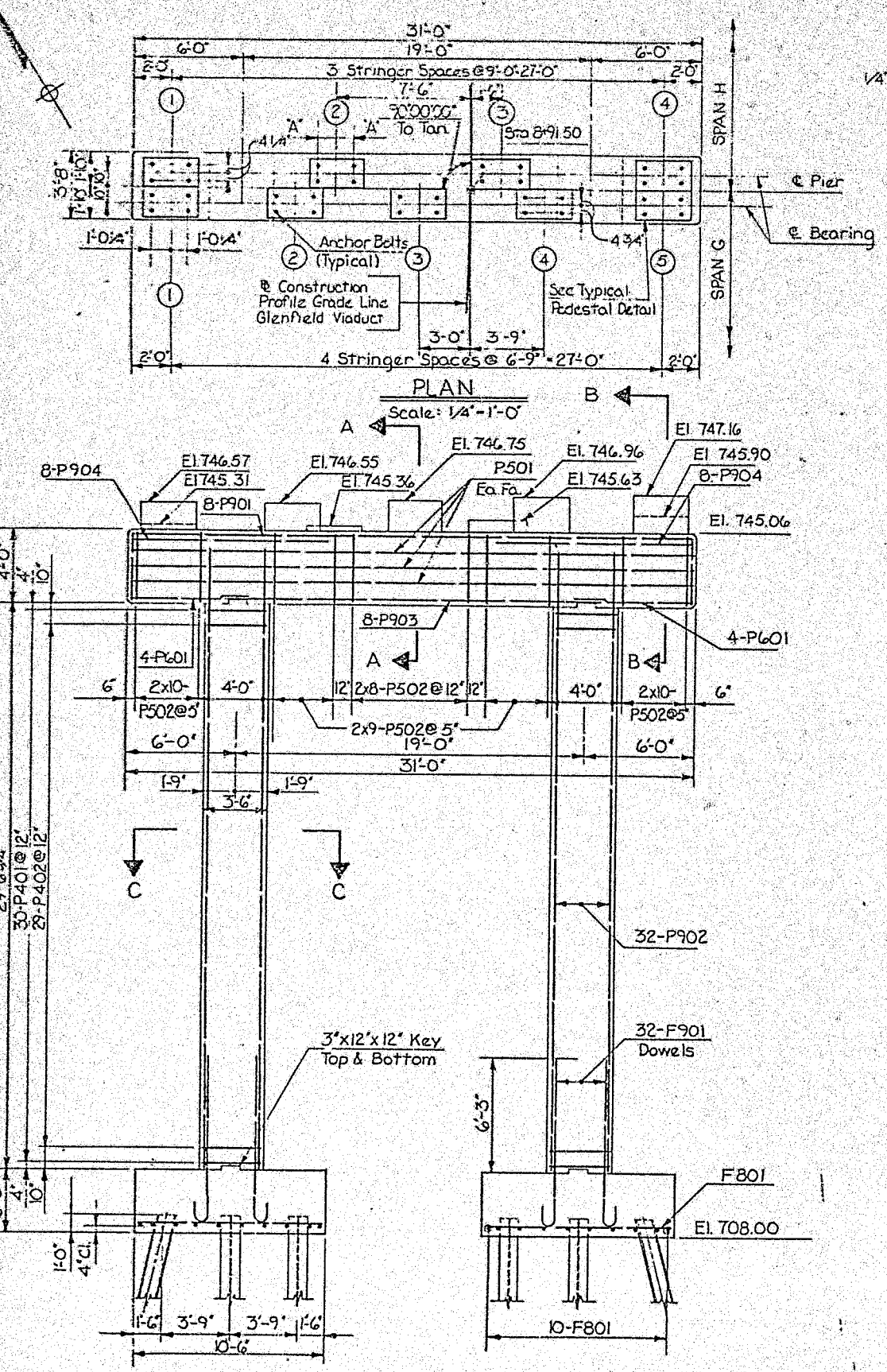
ALLEGHENY COUNTY GLENFIELD VIADUCT

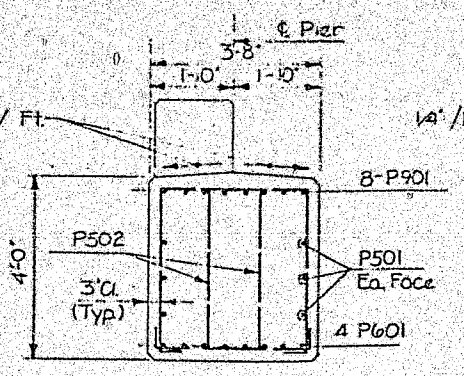
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
PIER NO. 5

RECOMMENDED _____
BRIDGE ENGINEER

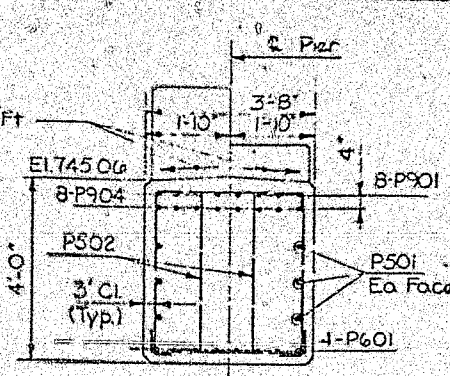
SHEET 12 OF 39
S-16201


4 Stringer Spaces @ 6'-9" = 27'-0"
3'-0"
3'-0"
3

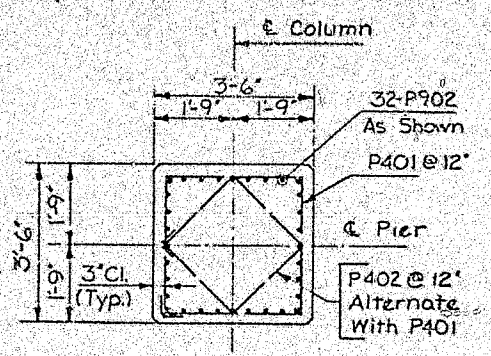




SECTION A-A
Scale: 1/2"=1'-0"

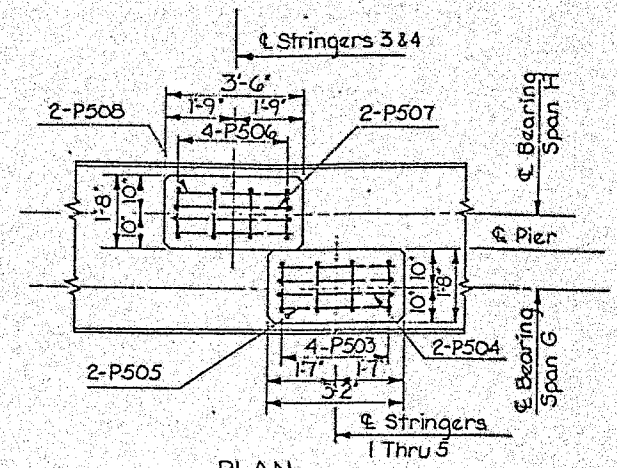


SECTION B-B
Scale: 1/2"=1'-0"

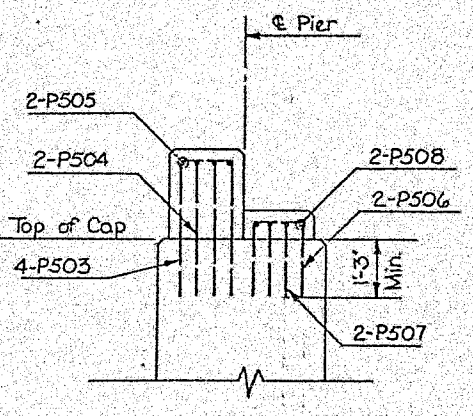


SECTION C-C
Scale: 1/2"=1'-0"

ANCHOR BOLT LOCATION ~ SPAN H	
STRINGER NO.	DIMEN. "A"
1	11"
2	11"
3	12"
4	14"

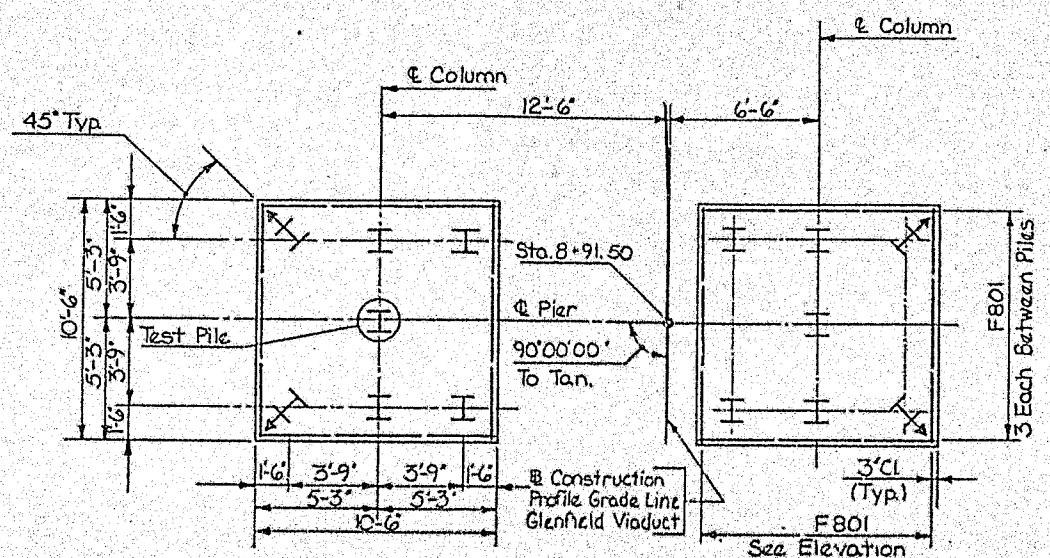


PLAN



TYPICAL SECTION

PEDESTAL DETAILS
Scale: 1/2"=1'-0"



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

PILE LEGEND
- Denotes Plumb Piles
- Denotes Battered Piles 5:12

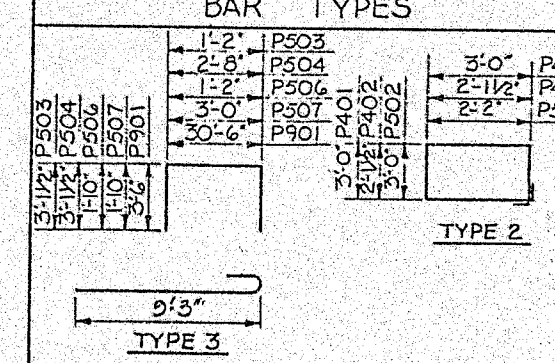
All Piles Shall Be HP 12 x 74

PILE NOTES
Maximum Allowable Pile Load 98 Tons
Maximum Design Pile Load 87 Tons
Estimated Pile Tip El. 672.00

BAR SCHEDULE

MARK	SIZE	TYPE	NO.	LENGTH	REMARKS
P401	4	2	60	12'-9"	
P402	4	2	58	9'-3"	
P501	5	STR.	6	30'-6"	
P502	5	2	92	12'-4"	
P503	5	1	20	7'-5"	
P504	5	1	10	8'-11"	
P505	5	STR.	10	2'-8"	
P506	5	1	8	4'-10"	
P507	5	1	4	6'-8"	
P508	5	STR	4	3'-0"	
P601	6	STR.	8	6'-9"	
P901	9	1	8	37'-6"	
P902	9	STR	64	32'-7"	
P903	9	STR.	8	20'-11"	
P904	9	STR.	16	10'-9"	
F801	8	STR.	40	10'-0"	
F901	9	3	64	10'-6"	

BAR TYPES



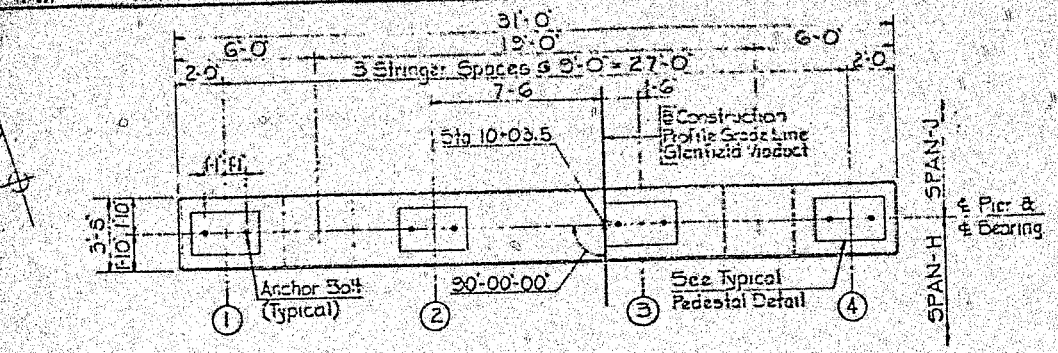
Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

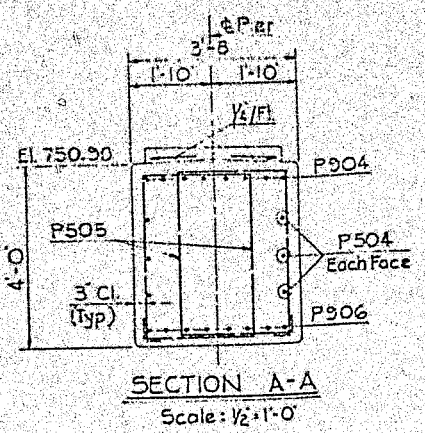
ALLEGHENY COUNTY
GLENFIELD VIADUCT
GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
PIER NO. 7

RECOMMENDED _____
BRIDGE ENGINEER

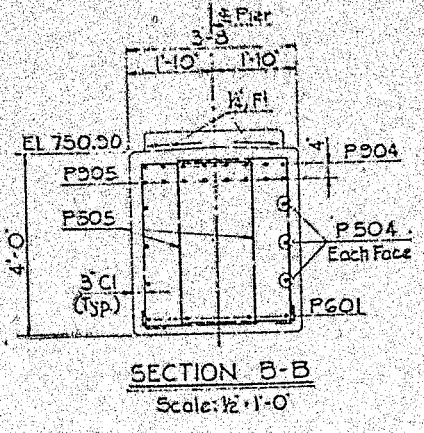
SHEET 16 OF 39
S-16201



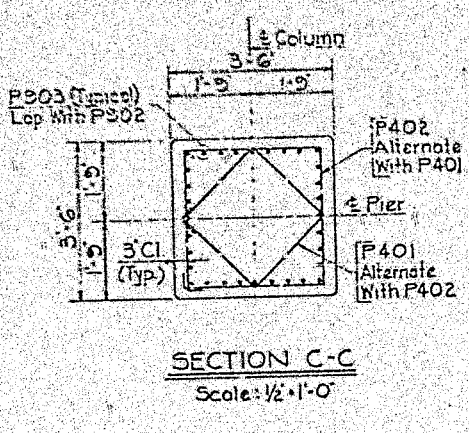
PLAN
Scale: 1/4" = 1'-0"



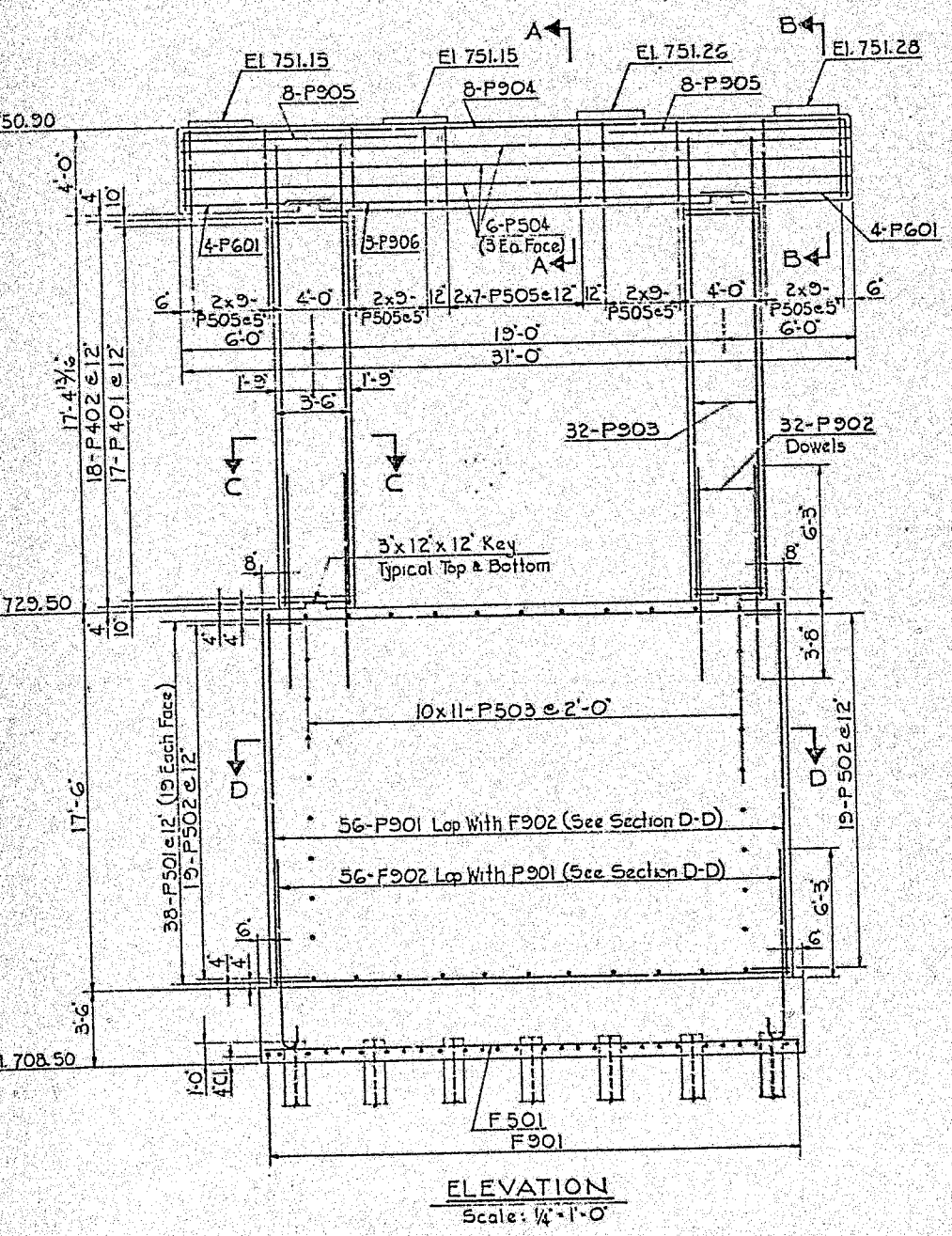
SECTION A-A
Scale: 1/2" = 1'-0"



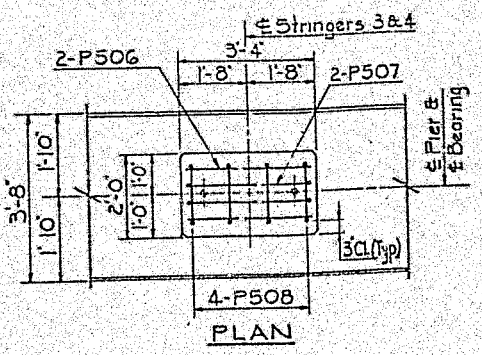
SECTION B-B
Scale: 1/2" = 1'-0"



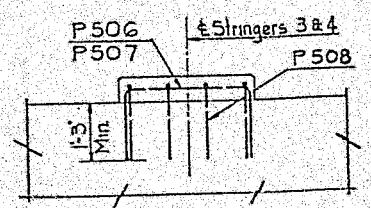
SECTION C-C
Scale: 1/2" = 1'-0"



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

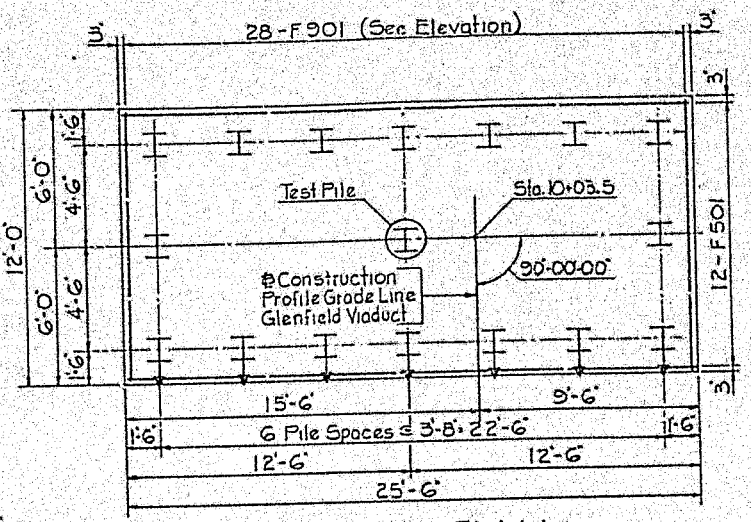


PLAN

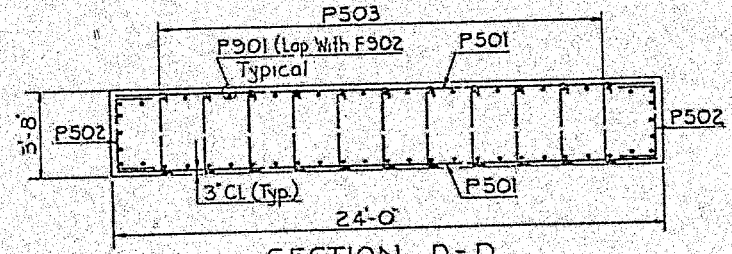


ELEVATION

PEDESTAL DETAILS
Scale: 1/2" = 1'-0"



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



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

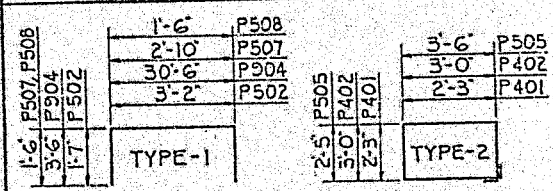
PILE LEGEND
- Denotes Plumb Piles
- Denotes Battered Piles 3:12
- All Piles Shall Be HP 12x74

PILE NOTES
Maximum Allowable Pile Load 98 Tons
Maximum Design Pile Load 92 Tons
Estimated Pile Tip El. 673.00

BAR SCHEDULE

MARK	SIZE	TYPE	NO.	LENGTH	REMARKS
F501	#5	Str.	12	25'-2"	
F901	9	Str.	28	11'-8"	
F902	9	3	56	10'-6"	
P401	4	2	34	9'-9"	
P402	4	2	36	12'-9"	
P501	5	Str.	38	23'-8"	
P502	5	1	38	6'-4"	
P503	5	4	110	4'-4"	
P504	5	Str.	6	30'-6"	
P505	5	2	86	12'-0"	
P506	5	Str.	4	2'-10"	
P507	5	1	4	5'-10"	
P508	5	1	8	4'-6"	
P601	6	Str.	8	8'-0"	
P901	9	Str.	56	17'-4"	
P902	9	Str.	64	9'-11"	
P903	9	Str.	64	20'-5"	
P904	9	1	8	37'-6"	
P905	9	Str.	16	10'-10"	
P906	9	Str.	8	21'-10"	

BAR TYPES



Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				

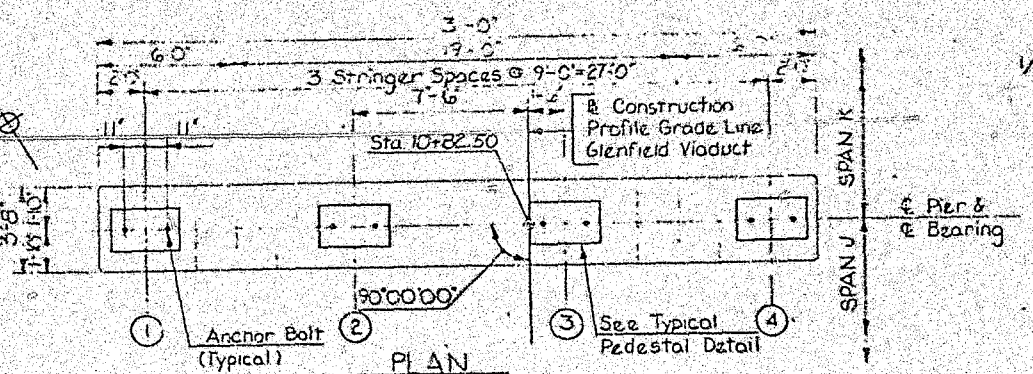
Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
PIER NO. 8

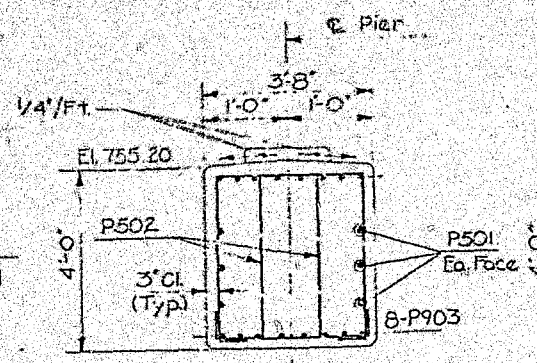
SHEET 12 OF 39

RECOMMENDED _____
BRIDGE ENGINEER

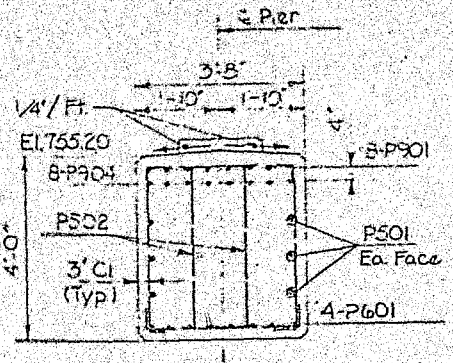
S-16201



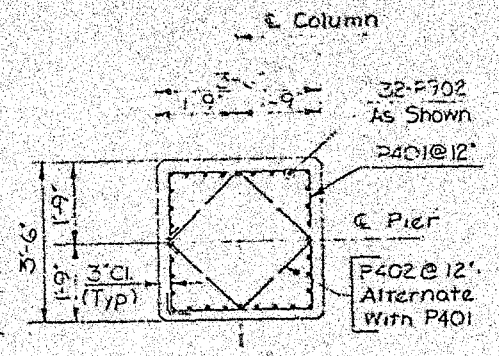
PLAN
Scale: 1/4"=1'-0"



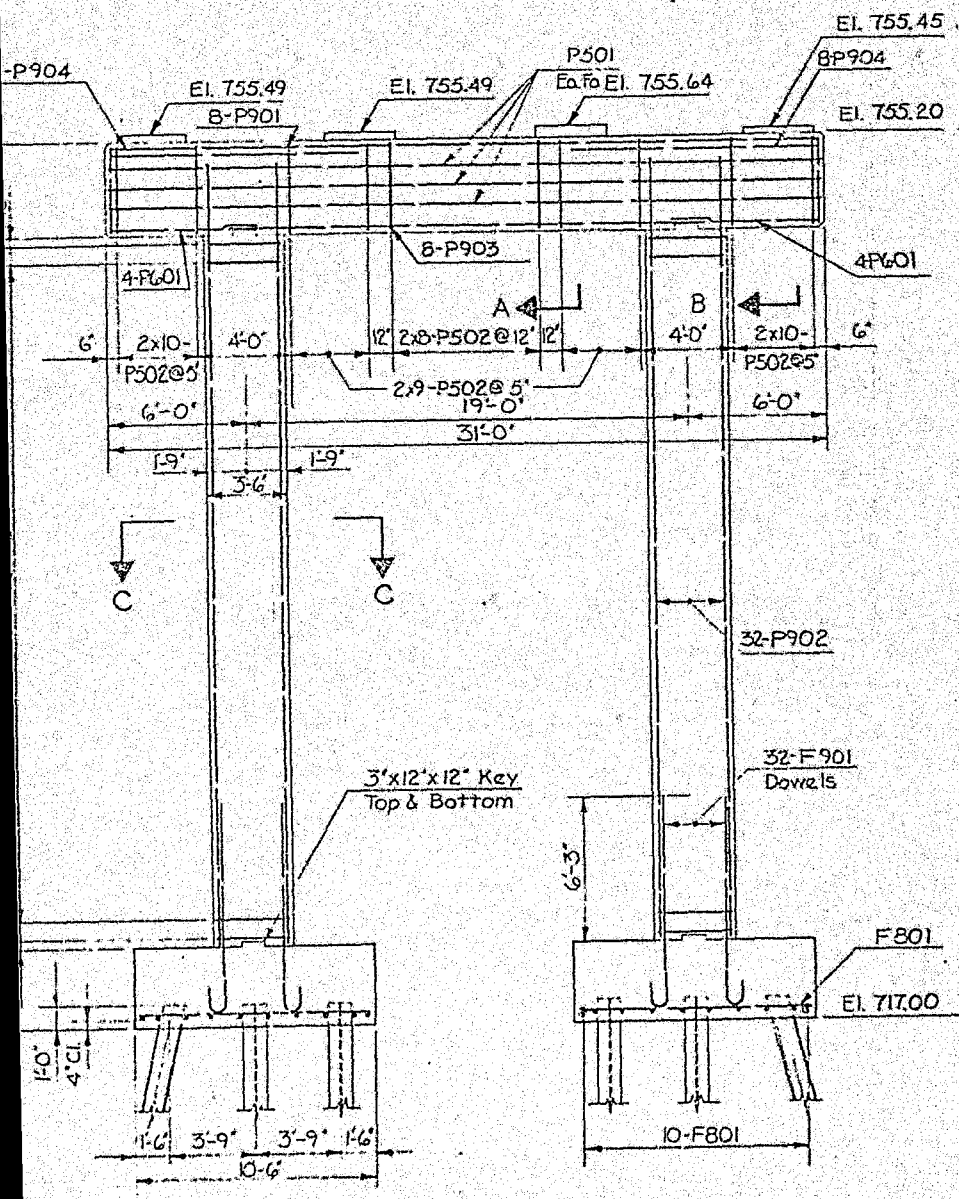
SECTION A-A
Scale: 1/2"=1'-0"



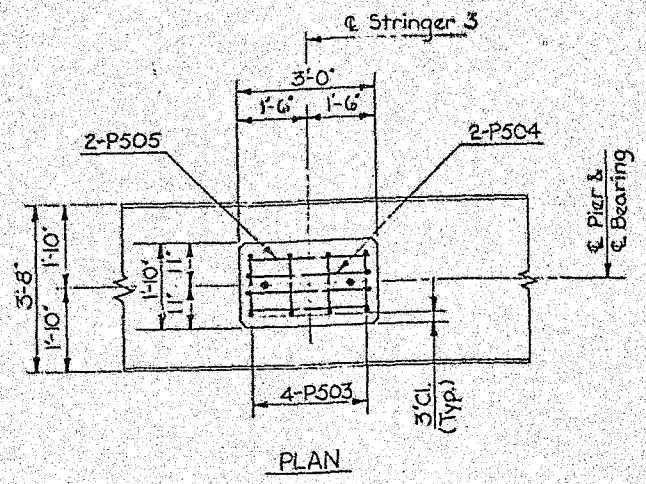
SECTION B-B
Scale: 1/2"=1'-0"



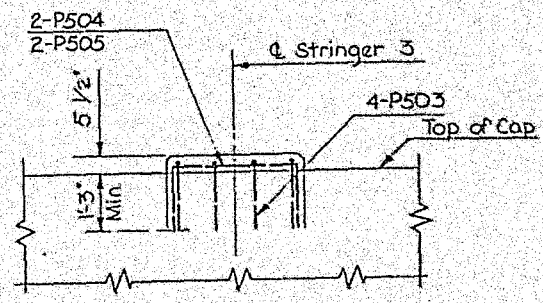
SECTION C-C
Scale: 1/2"=1'-0"



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

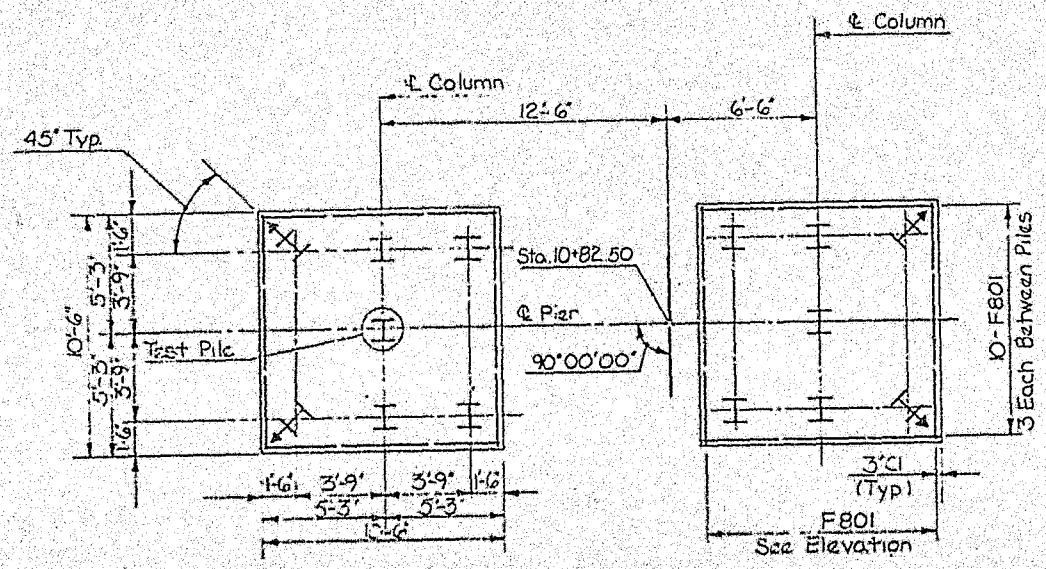


PLAN



ELEVATION

PEDESTAL DETAILS
Scale: 1/2"=1'-0"



FOOTING PLAN
Scale: 1/8"=1'-0"

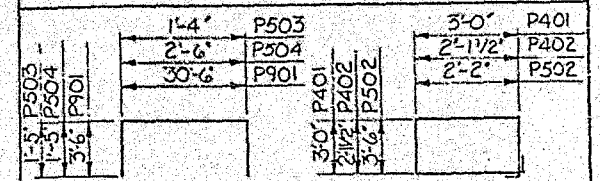
PILE LEGEND
- Denotes Plumb Piles
- Denotes Batter Piles 3:12
- All Piles Shall Be HP 12x74

PILE NOTES
- Maximum Allowable Pile Load 58 Tons
- Maximum Design Pile Load 57 Tons
- Estimated Pile Tip El. 707.00

BAR SCHEDULE

MARK	SIZE	TYPE	NO.	LENGTH	REMARKS
P401	4	2	62	12'-9"	
P402	4	2	60	9'-3"	
P501	5	STR	4	30'-6"	
P502	5	2	92	12'-4"	
P503	5	1	4	4'-2"	
P504	5	1	2	5'-4"	
P505	5	STR	2	2'-6"	
P601	6	STR	8	6'-9"	
P901	9	1	8	37'-6"	
P902	9	STR	64	33'-8"	
P903	9	STR	8	20'-11"	
P904	9	STR	16	10'-9"	
F801	8	STR	40	10'-0"	
F901	9	3	64	10'-6"	

BAR TYPES



TYPE 1 TYPE 2 TYPE 3

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

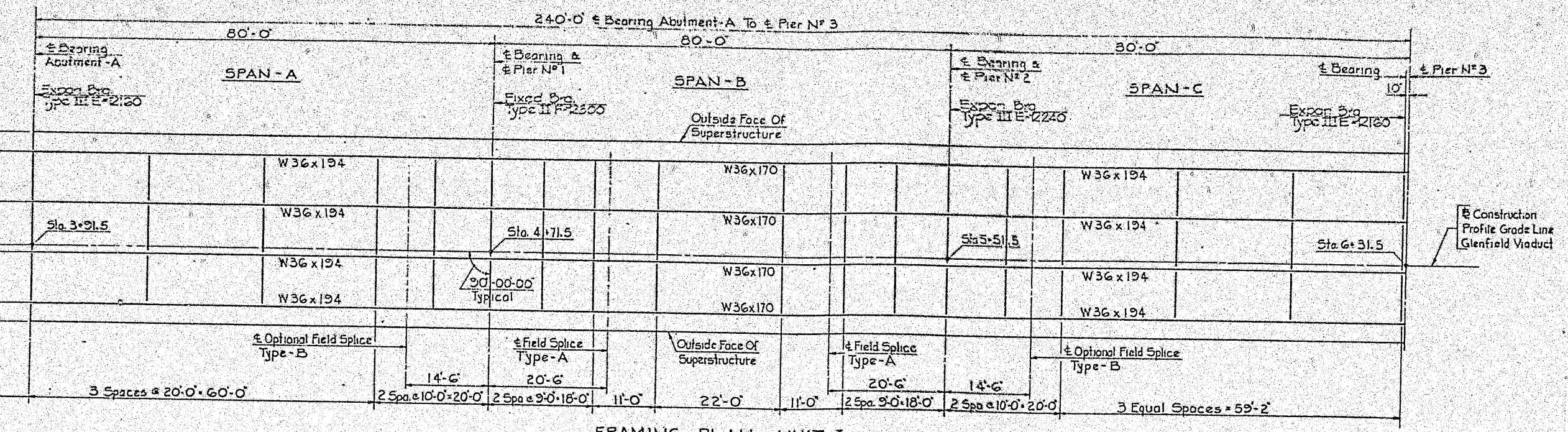
Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67
16 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
PIER NO 9

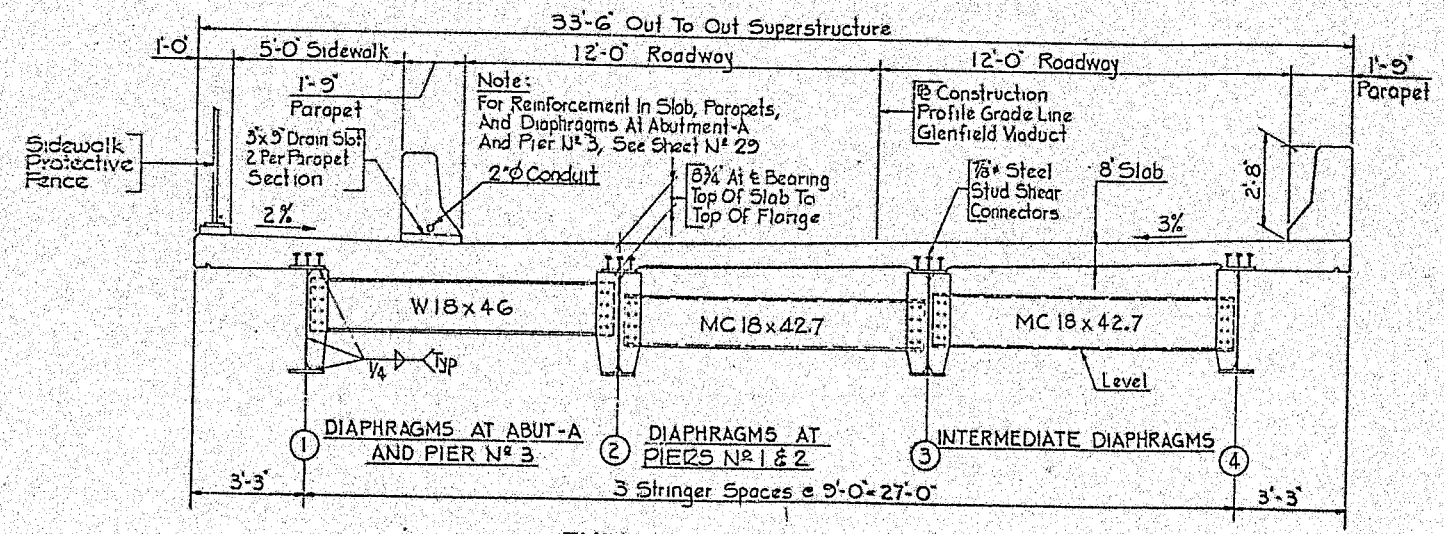
RECOMMENDED _____
BRIDGE ENGINEER

SHEET 12 OF 32
S- 16201



FRAMING PLAN — UNIT I

Scale: 1" = 10'



TYPICAL SECTION - UNIT I

Scale: ⅜" = 1'-0"

Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				

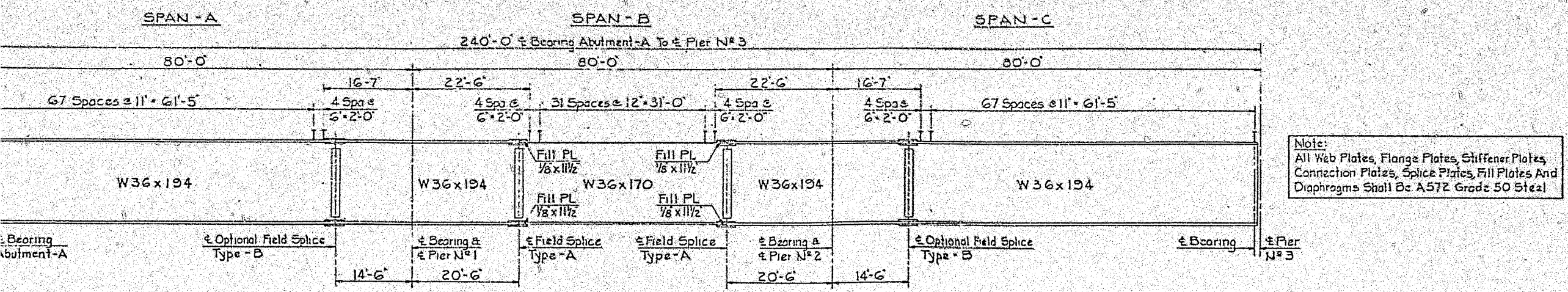
Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT
GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
FRAMING PLAN, UNIT I

RECOMMENDED _____
BRIDGE ENGINEER

SHEET 12 OF 39

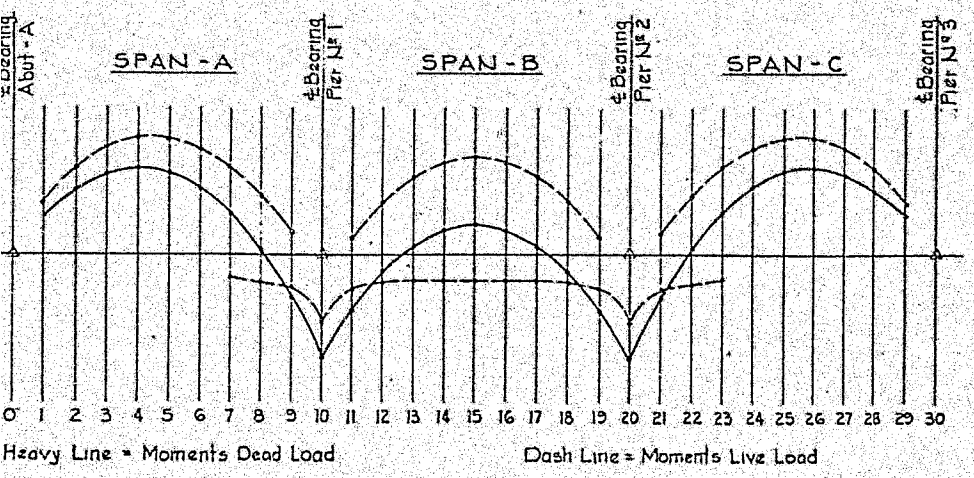
S-16201



TYPICAL STRINGER ELEVATION — UNIT - I

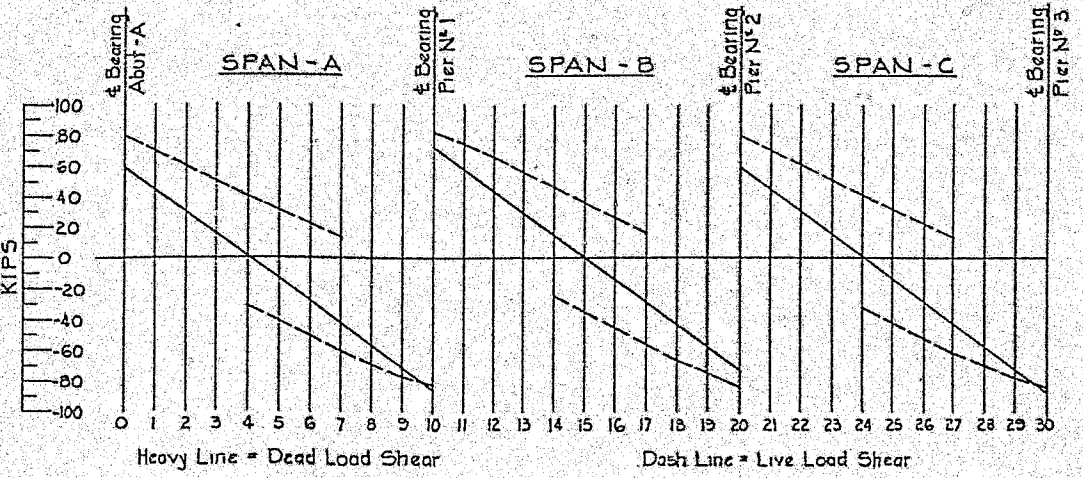
No Scale

Note:
All Web Plates, Flange Plates, Stiffener Plates, Connection Plates, Splice Plates, Fill Plates And Diaphragms Shall Be A572 Grade 50 Steel



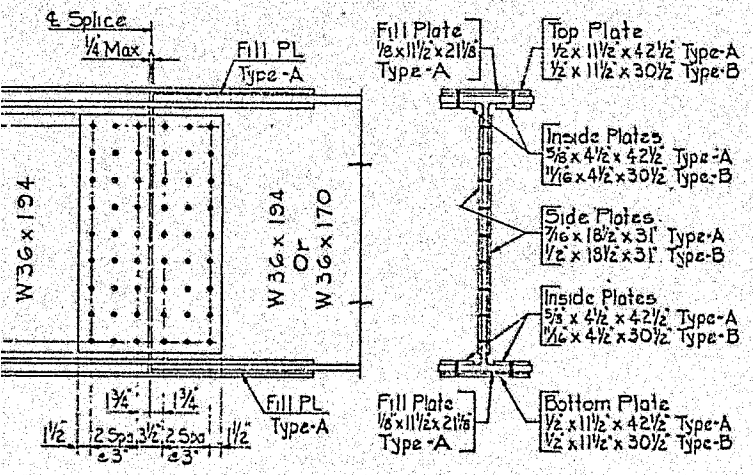
Heavy Line = Moments Dead Load Dash Line = Moments Live Load

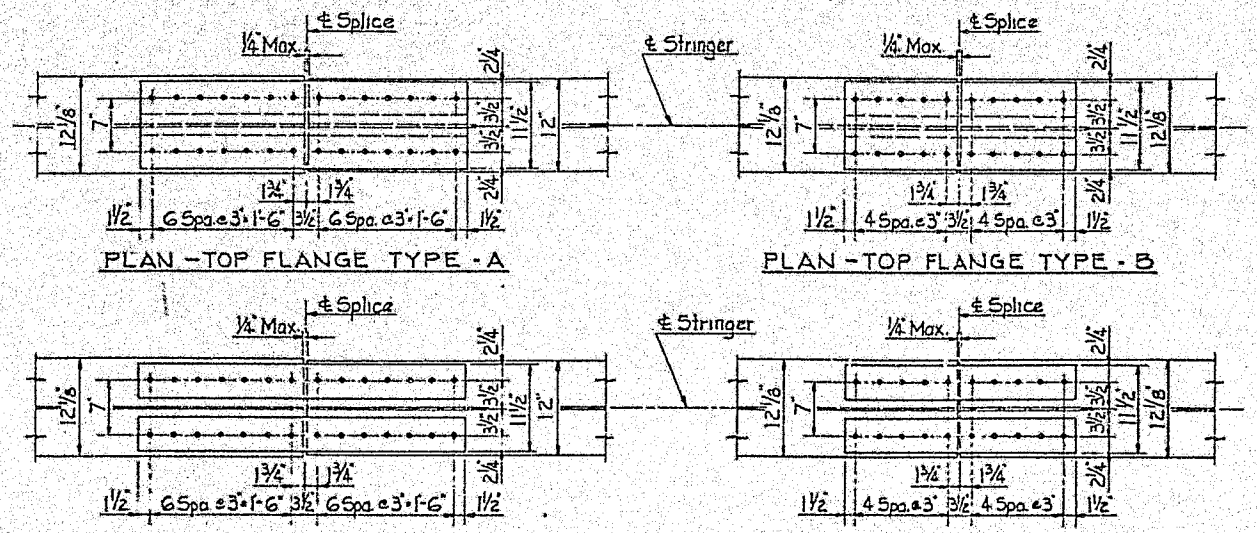
MOMENT DIAGRAM — UNIT - I



Heavy Line = Dead Load Shear Dash Line = Live Load Shear

SHEAR DIAGRAM — UNIT - I





FIELD SPLICE DETAILS

Scale: 1" = 1'-0"

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT

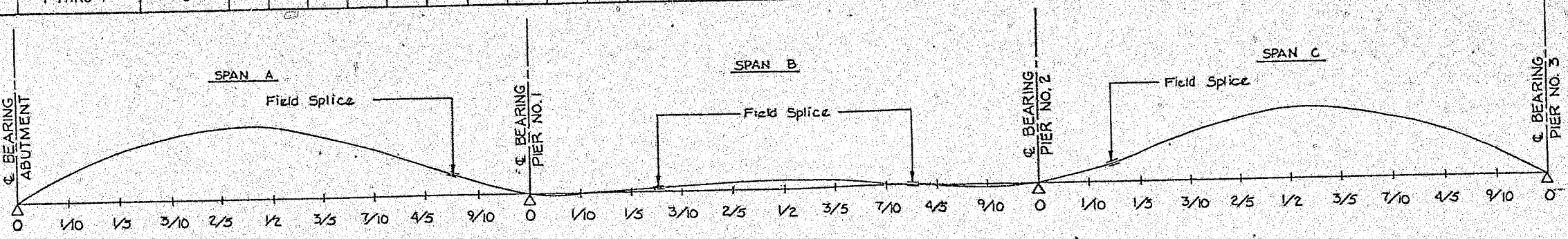
GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
STRINGER DETAILS, UNIT I

RECOMMENDED _____
BRIDGE ENGINEER

SHEET 22 OF 32
S-16201

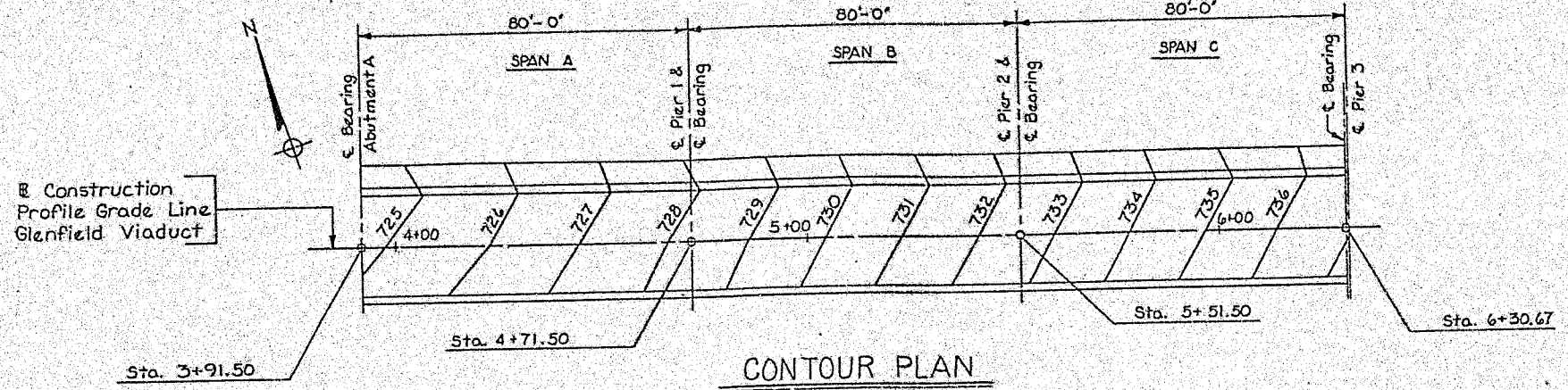
CAMBER ORDINATES Y, INCHES

IPTION	STRINGER NO	SPAN A										SPAN B											SPAN C										
		℄ BEARING ABUTMENT A	1/10	1/5	3/10	2/5	1/2	3/5	7/10	4/5	F.S.	9/10	℄ BEARING PIER NO 1	1/10	1/5	F.S.	3/10	2/5	1/2	3/5	7/10	F.S.	4/5	9/10	℄ BEARING PIER NO 2	1/10	F.S.	1/5	3/10	2/5	1/2	3/5	7/10	4/5	9/10	℄ BEARING PIER NO 3
L	I THRU 4	0	1/8"	3/16"	1/4"	5/16"	5/16"	1/2"	3/16"	1/8"	1/8"	1/16"	0	0	0	0	0	0	0	0	0	0	0	0	0	1/16"	1/8"	1/8"	3/16"	1/4"	5/16"	5/16"	1/4"	3/16"	1/8"	0
SLAB	I THRU 4	0	9/16"	1"	15/16"	1 1/2"	1 1/2"	1 15/16"	1"	5/8"	9/16"	1/4"	0	-1/16"	0	0	0	1/8"	1/8"	1/8"	0	0	0	-1/16"	0	1/4"	9/16"	5/8"	1"	1 5/16"	1 1/2"	1 1/2"	1 5/16"	1"	9/16"	0
DEAD LOAD	I THRU 4	0	3/16"	5/16"	3/8"	7/16"	7/16"	3/8"	5/16"	3/16"	3/16"	1/16"	0	0	0	0	1/16"	1/8"	1/8"	1/8"	1/16"	0	0	0	0	1/16"	3/16"	3/16"	5/16"	3/8"	7/16"	7/16"	3/8"	5/16"	3/16"	0
	I THRU 4	0	7/8"	1 1/2"	1 15/16"	2 1/4"	2 1/4"	1 15/16"	1 1/2"	15/16"	7/8"	3/8"	0	-1/2"	0	0	1/16"	1/4"	1/4"	1/8"	1/16"	0	0	-1/16"	0	3/8"	7/8"	15/16"	1 1/2"	1 15/16"	2 1/4"	2 1/4"	1 15/16"	1 1/2"	7/8"	0

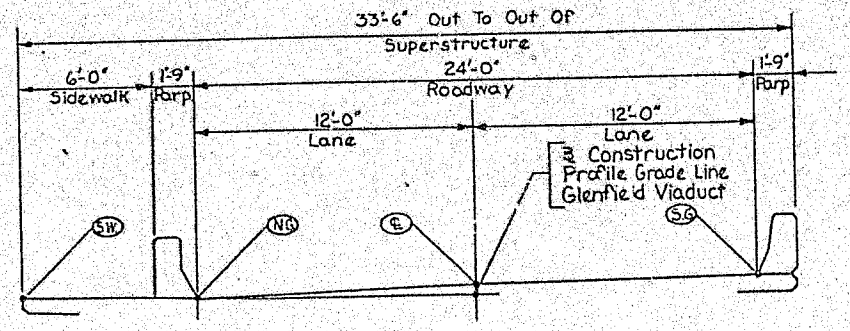


ELEVATION SCHEDULE

ALK	N.G.	℄	S.G.
53	724.38	724.74	725.10
90	724.75	725.11	725.47
29	725.14	725.50	725.86
69	725.54	725.90	726.26
11	725.96	726.32	726.68
55	726.39	726.75	727.11
00	726.85	727.21	727.57
47	727.32	727.68	728.04
96	727.80	728.16	728.52
46	728.31	728.67	729.03
98	728.82	729.18	729.54
52	729.36	729.72	730.08
06	729.90	730.26	730.62
60	730.45	730.81	731.17
15	730.99	731.35	731.71
69	731.54	731.90	732.26
24	732.08	732.44	732.80
78	732.62	732.98	733.34
32	733.17	733.53	733.89
87	733.71	734.07	734.43
41	734.26	734.62	734.98
96	734.80	735.16	735.52
50	735.34	735.70	736.06
04	735.89	736.25	736.61
59	736.43	736.79	737.15



CONTOUR PLAN
Scale: 1"=20'



TYPICAL DECK SECTION
Scale: 1/4"=1'-0"

Y ELEVATION SCHEDULE

ING	℄ BEARING	℄ BEARING	℄ BEARING
ENT A	PIER NO. 1	PIER NO 2	PIER NO 3
52	727.97	732.25	736.56
57	728.01	732.30	736.60
84	728.28	732.57	736.87
11	728.55	732.84	737.14

Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				

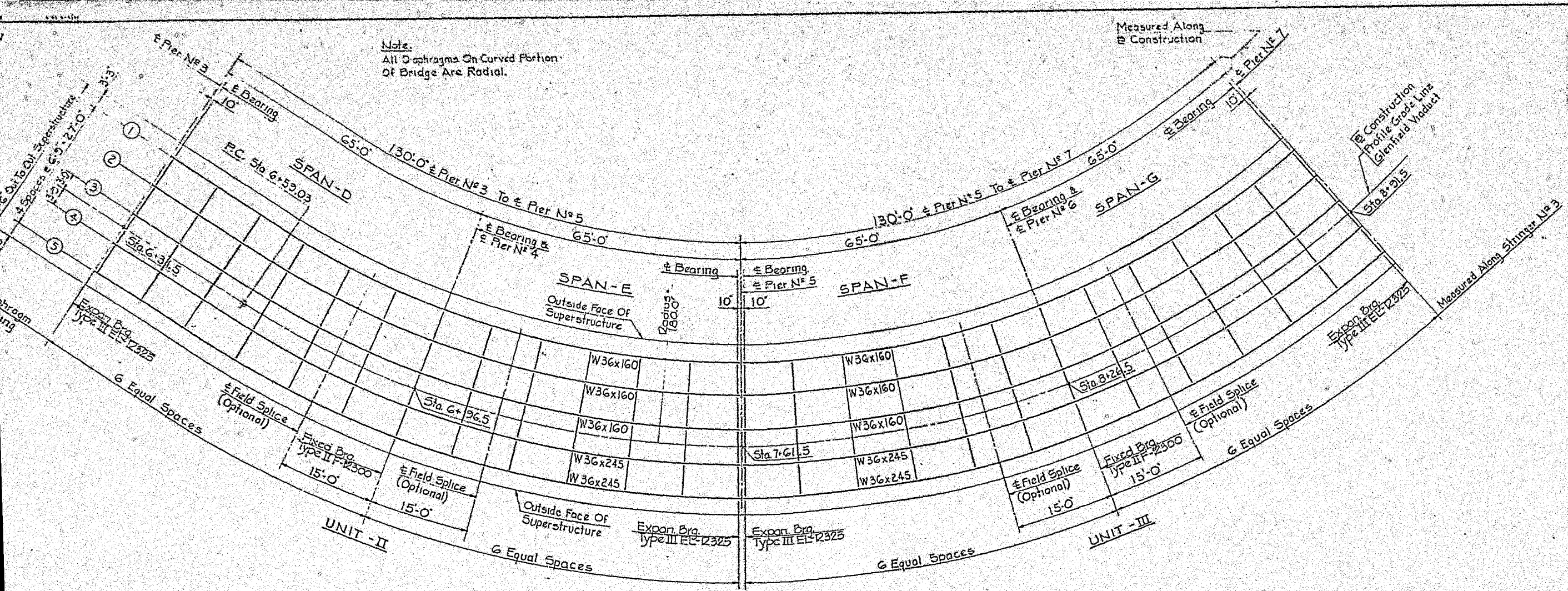
Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
CAMBER & ELEV. SCHEDULES, UNIT I

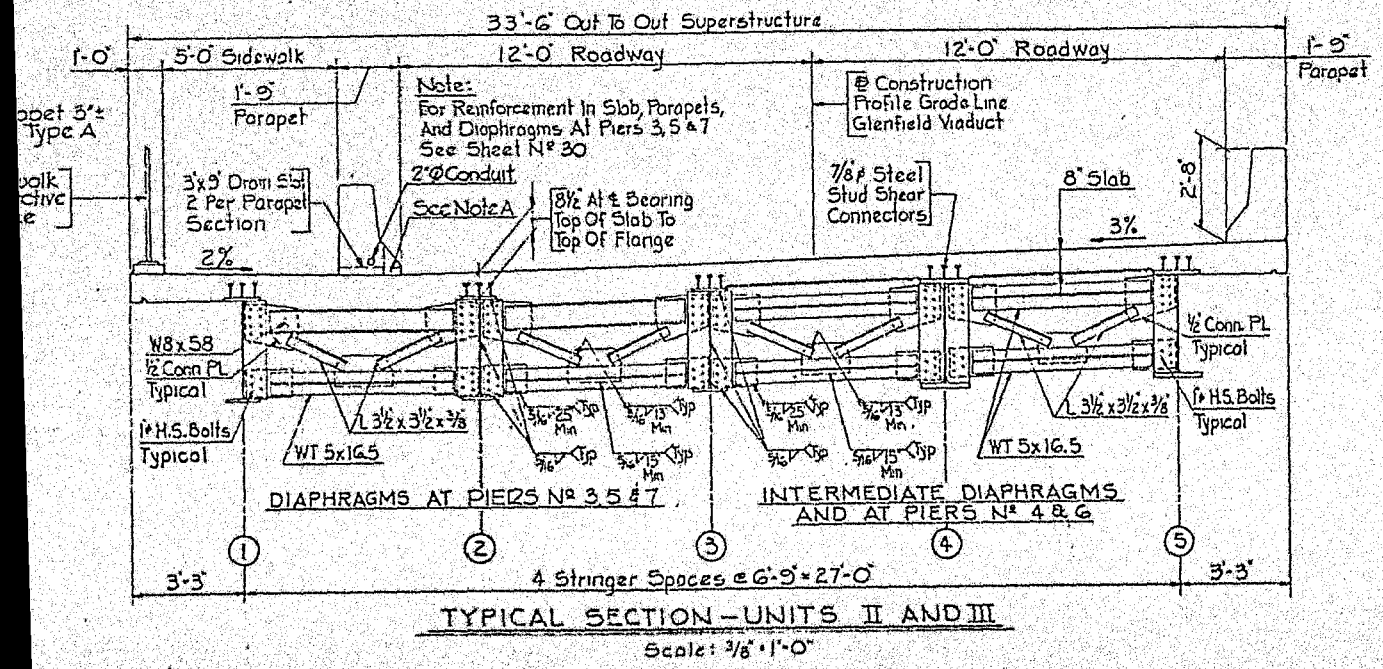
RECOMMENDED _____
BRIDGE ENGINEER

SHEET 21 OF 32
S-16201

Note.
All Diaphragms On Curved Portion Of Bridge Are Radial.



FRAMING PLAN — UNITS II AND III
Scale: 1" = 10'



TYPICAL SECTION — UNITS II AND III
Scale: ⅜" = 1'-0"

Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				

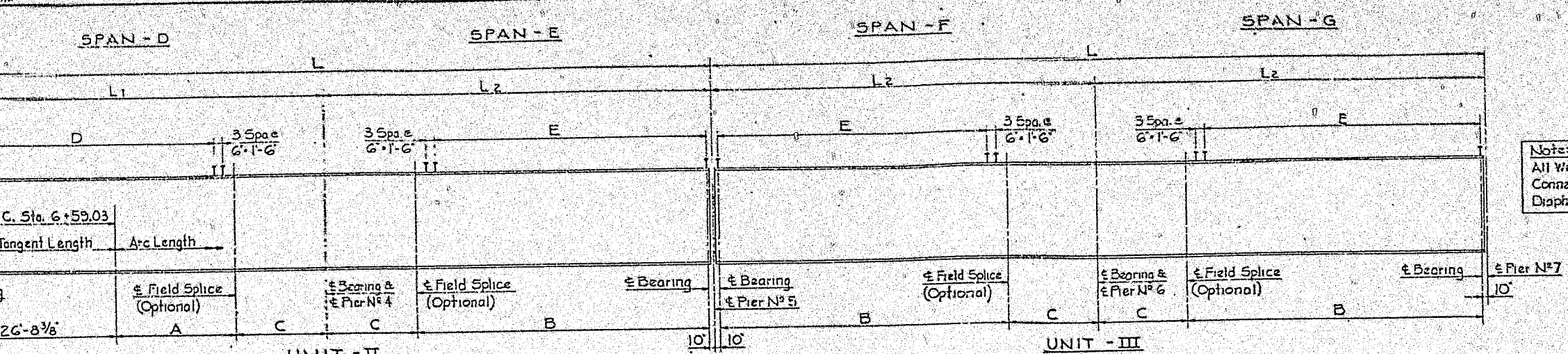
Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
FRAMING PLAN, UNITS II & III

RECOMMENDED _____
BRIDGE ENGINEER

SHEET 22 OF 39
S-16201



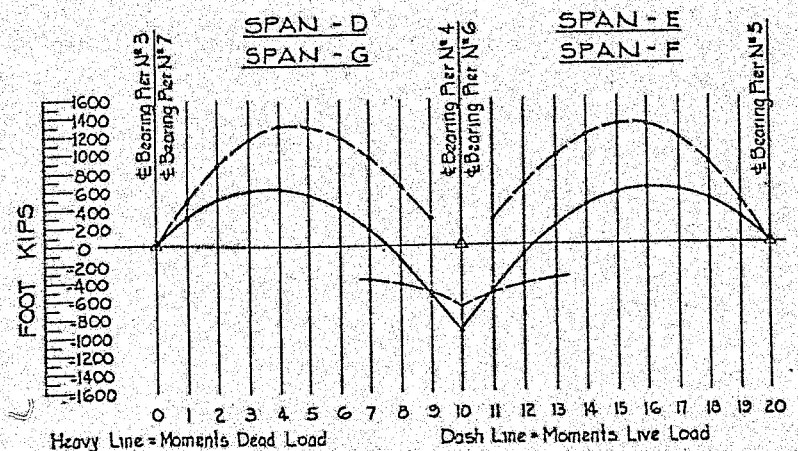
TYPICAL STRINGER ELEVATION — UNITS II AND III

No Scale

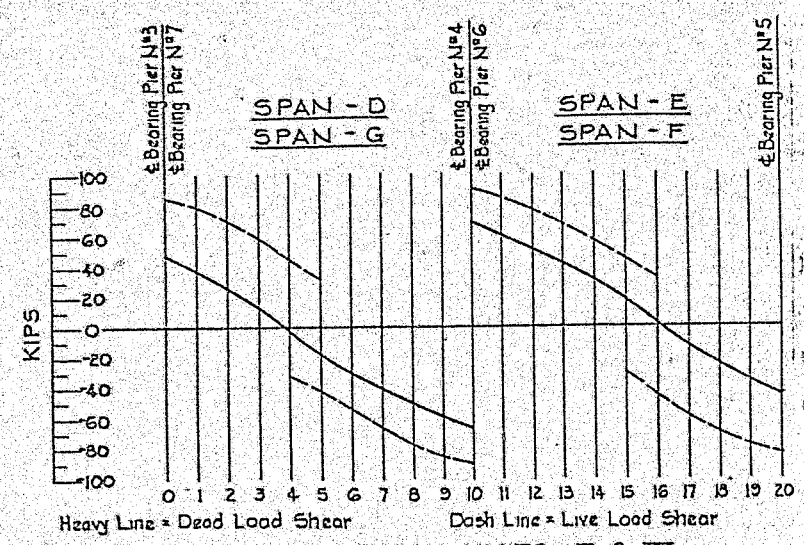
Note:
All Web Plates, Flange Plates, Stiffener Plates, Connection Plates, Splice Plates, Fill Plates And Diaphragms Shall Be A572 Grade 50 Steel

STRINGER SCHEDULE

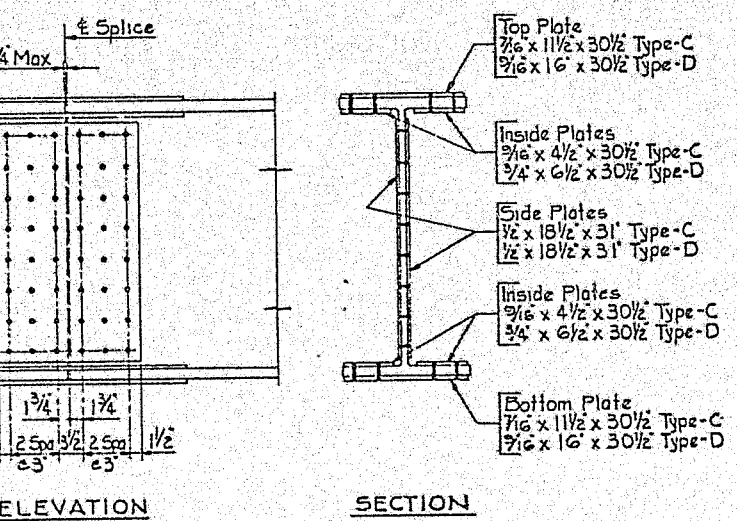
SIZE	RADIUS	STRINGER LENGTHS L	L1	L2	DIMENSIONS A	B	SPLICES TYPE	C	SHEAR DEVELOPERS D	E
36x160	163.50	119'-0 1/4"	60'-8 13/16"	58'-3 7/16"	20'-2 5/16"	44'-5 5/16"	C	13'-10 1/4"	42 Spa.@12 1/2"	39 Spa.@12 1/2"
36x160	170.25	122'-9 15/16"	62'-1 5/8"	60'-8 5/16"	21'-0 1/8"	46'-3 3/16"	C	14'-5 1/8"	42 Spa.@12 1/2"	41 Spa.@12 1/2"
36x160	177.00	126'-7 11/16"	63'-6 1/2"	63'-1 3/16"	21'-10 1/8"	48'-1 3/16"	C	15'-0"	43 Spa.@12 1/2"	43 Spa.@12 1/2"
36x245	183.75	130'-5 7/16"	64'-11 3/8"	65'-6 1/16"	22'-8 1/8"	49'-11 7/16"	D	15'-6 7/8"	48 Spa.@11 1/2"	48 Spa.@11 1/2"
36x245	190.50	134'-3 3/16"	66'-4 1/4"	67'-10 15/16"	23'-6 1/8"	51'-9 3/16"	D	16'-1 3/4"	49 Spa.@11 1/2"	50 Spa.@11 1/2"
36x160	163.50	116'-6 7/8"	—	58'-3 7/16"	—	44'-5 3/16"	C	13'-10 1/4"	—	39 Spa.@12 1/2"
36x160	170.25	121'-4 7/8"	—	60'-8 5/16"	—	46'-3 3/16"	C	14'-5 1/8"	—	41 Spa.@12 1/2"
36x160	177.00	126'-2 7/8"	—	63'-1 3/16"	—	48'-1 3/16"	C	15'-0"	—	43 Spa.@12 1/2"
36x245	183.75	131'-0 1/8"	—	65'-6 1/16"	—	49'-11 7/16"	D	15'-6 7/8"	—	48 Spa.@11 1/2"
36x245	190.50	135'-9 7/8"	—	67'-10 15/16"	—	51'-9 3/16"	D	16'-1 3/4"	—	50 Spa.@11 1/2"

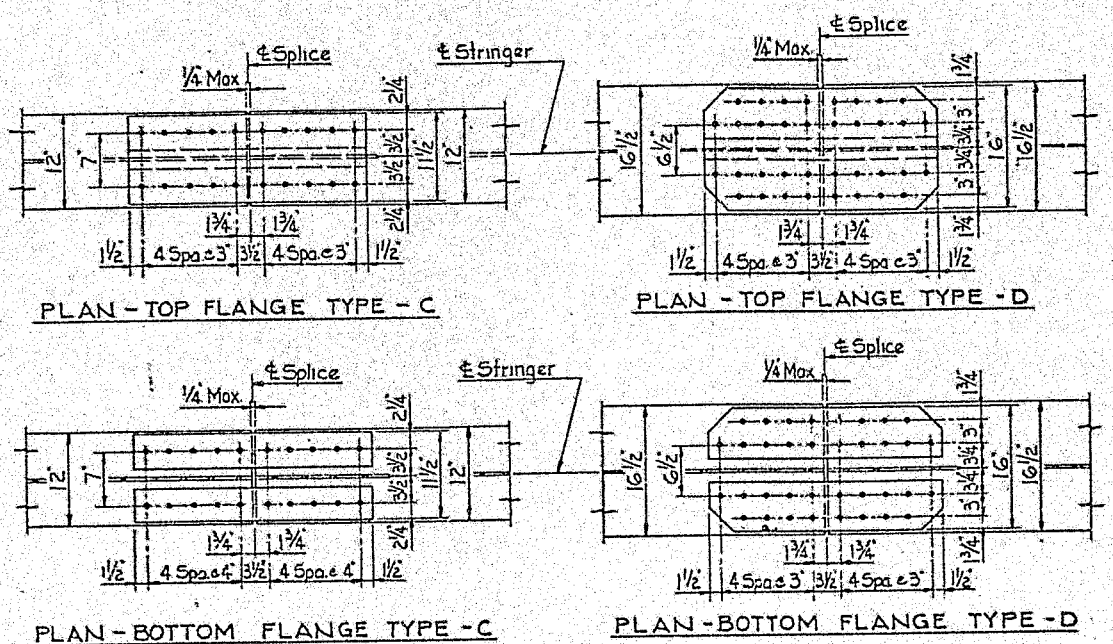


MOMENT DIAGRAM — UNITS II & III



SHEAR DIAGRAM — UNITS II & III





FIELD SPLICE DETAILS

Scale: 1"=1'-0"

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9-88.80 OVER
EAST BEAVER STREET STA. 16-96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE

STRINGER DETAILS, UNITS II & III

RECOMMENDED _____
BRIDGE ENGINEER

SHEET 23 OF 32

S-16201

UNIT II & UNIT III ~ CAMBER ORDINATES Y, INCHES

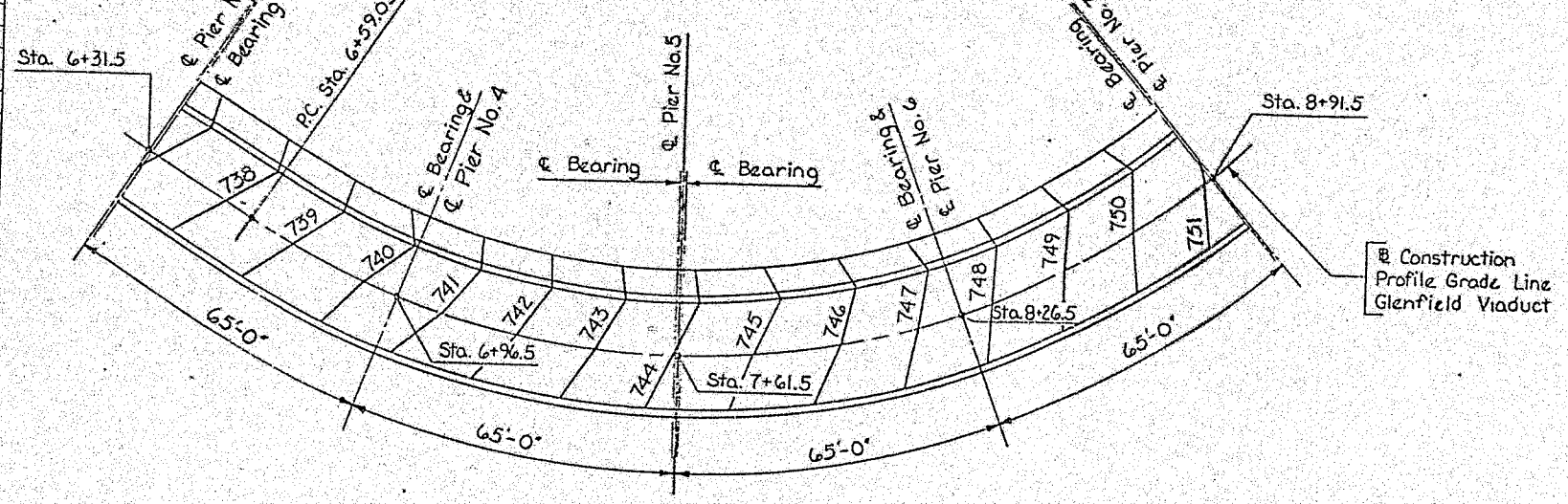
CRIPTION	STRINGER NO.	SPAN D										SPAN E										SPAN F										SPAN G									
		℄ BEARING ℄ PIER NO.3	1/10	1/5	3/10	2/5	1/2	3/5	7/10	F.S.	4/5	9/10	℄ BEARING ℄ PIER NO.4	1/10	1/5	F.S	3/10	2/5	1/2	3/5	7/10	4/5	9/10	℄ BEARING ℄ PIER NO.5	℄ BEARING ℄ PIER NO.5	1/10	1/5	3/10	2/5	1/2	3/5	7/10	F.S.	4/5	9/10	℄ BEARING ℄ PIER NO.6	1/10	1/5	FS	3/10	2/5	1/2	3/5	7/10	4/5	9/10	℄ BEARING ℄ PIER NO.7
OF STEEL	1	0	0	1/16"	1/8"	1/8"	1/16"	1/16"	1/16"	0	0	0	0	0	0	1/16"	1/16"	1/16"	1/8"	1/8"	1/16"	0	0	0	0	1/16"	1/8"	1/8"	1/16"	1/16"	1/16"	0	0	0	0	0	0	0	1/16"	1/16"	1/16"	1/8"	1/8"	1/16"	0	0
	2	0	0	1/16"	1/8"	1/8"	1/8"	1/8"	1/16"	1/16"	0	0	0	0	0	1/16"	1/16"	1/16"	1/8"	1/8"	1/8"	1/16"	0	0	0	0	1/16"	1/8"	1/8"	1/8"	1/2	1/16"	0	0	0	0	0	0	1/16"	1/16"	1/8"	1/16"	1/16"	1/16"	1/8"	1/8"	1/16"	0	0
	3	0	1/16"	1/16"	1/8"	3/16"	1/8"	1/8"	1/16"	1/16"	1/16"	0	0	0	1/16"	1/16"	1/16"	1/8"	1/8"	1/8"	3/16"	1/8"	1/16"	1/16"	0	0	0	1/16"	1/8"	1/8"	1/8"	1/2	1/16"	0	0	0	0	0	0	1/16"	1/16"	1/8"	1/8"	1/8"	1/8"	1/16"	0	0
	4	0	1/16"	1/16"	3/16"	3/16"	3/16"	1/8"	1/8"	1/16"	1/16"	0	0	0	1/16"	1/16"	1/16"	1/8"	1/8"	3/16"	1/8"	1/16"	1/16"	0	0	0	1/16"	1/8"	1/8"	1/8"	1/16"	1/16"	0	0	0	0	0	0	1/16"	1/16"	1/16"	1/8"	1/8"	1/8"	1/16"	0	0
	5	0	1/16"	1/16"	3/16"	1/4"	3/16"	3/16"	1/8"	1/16"	1/16"	0	0	0	1/16"	1/16"	1/16"	1/8"	3/16"	3/16"	3/16"	1/8"	1/16"	0	0	0	1/16"	1/8"	3/16"	3/16"	3/16"	1/8"	1/8"	1/16"	1/16"	0	0	0	1/16"	1/16"	1/16"	1/16"	1/8"	3/16"	1/8"	1/16"	1/16"	0
OF DECK SLAB	1	0	3/16"	3/16"	1/16"	1/16"	1/16"	3/8"	1/4"	3/16"	1/8"	0	0	0	1/8"	3/16"	3/16"	3/16"	1/4"	3/16"	1/8"	1/16"	0	0	0	1/16"	1/8"	3/16"	1/4"	3/16"	3/16"	1/5"	1/16"	0	0	0	0	0	1/16"	1/8"	1/8"	3/16"	3/16"	1/8"	1/16"	0	0
	2	0	3/16"	3/16"	1/2"	9/16"	9/16"	7/16"	5/16"	1/4"	3/16"	1/16"	0	0	1/16"	3/16"	1/4"	5/16"	7/16"	7/16"	7/16"	3/8"	3/16"	0	0	0	3/16"	5/16"	7/16"	7/16"	7/16"	3/8"	1/4"	3/16"	1/8"	0	0	0	1/8"	3/16"	1/4"	3/8"	7/16"	7/16"	5/16"	3/16"	0
	3	0	3/16"	3/8"	1/2"	9/16"	9/16"	1/2"	5/16"	1/4"	3/16"	1/16"	0	0	1/16"	3/16"	1/2"	5/16"	1/2"	9/16"	9/16"	1/2"	3/8"	3/16"	0	0	3/16"	3/8"	1/2"	9/16"	9/16"	1/2"	5/16"	1/4"	3/16"	1/16"	0	0	1/16"	3/16"	1/4"	5/16"	7/16"	9/16"	1/2"	3/8"	3/16"	0
	4	0	3/16"	3/8"	1/2"	9/16"	1/2"	7/16"	5/16"	3/16"	1/8"	0	0	0	1/8"	3/16"	5/16"	7/16"	1/2"	9/16"	9/16"	1/2"	3/8"	3/16"	0	0	3/16"	3/8"	1/2"	9/16"	1/2"	7/16"	5/16"	3/16"	1/8"	0	0	0	1/8"	3/16"	5/16"	7/16"	1/2"	9/16"	1/2"	3/8"	3/16"	0
	5	0	1/4"	7/16"	9/16"	5/8"	9/16"	1/2"	3/8"	1/4"	3/16"	1/16"	0	0	1/16"	3/16"	1/4"	3/8"	1/2"	9/16"	5/8"	9/16"	7/16"	1/4"	0	0	1/4"	7/16"	9/16"	5/8"	9/16"	1/2"	3/8"	1/4"	3/16"	1/16"	0	0	1/16"	3/16"	1/4"	3/8"	1/2"	9/16"	5/8"	9/16"	1/4"	0
MPOSED DEAD	1	0	0	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	0	0	0	0	0	0	0	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	0	0	0	0	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	0	0	0	0	0	0	0	0	0	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	0
	2	0	0	1/16"	1/8"	1/8"	1/8"	1/8"	1/16"	1/16"	0	0	0	0	0	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	0	0	0	0	1/16"	1/8"	1/8"	1/8"	1/8"	1/16"	1/16"	0	0	0	0	0	0	0	0	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	0
	3	0	0	1/16"	1/8"	1/8"	1/8"	1/8"	1/16"	1/16"	1/16"	0	0	0	0	1/16"	1/16"	1/8"	1/8"	1/8"	1/8"	1/16"	0	0	0	0	1/16"	1/8"	1/8"	1/8"	1/8"	1/16"	1/16"	0	0	0	0	0	0	0	1/16"	1/16"	1/8"	1/8"	1/8"	1/8"	1/16"	0
	4	0	1/16"	1/8"	1/8"	1/8"	1/8"	1/8"	1/16"	1/16"	0	0	0	0	0	1/16"	1/16"	1/16"	1/8"	1/8"	1/8"	1/8"	1/16"	0	0	0	0	1/16"	1/8"	1/8"	1/8"	1/8"	1/16"	1/16"	0	0	0	0	0	0	0	1/16"	1/16"	1/16"	1/8"	1/8"	1/8"	1/8"	0
	5	0	1/16"	1/8"	3/16"	3/16"	3/16"	1/8"	1/8"	1/8"	1/16"	0	0	0	1/16"	1/16"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/16"	0	0	0	1/16"	1/8"	1/8"	1/8"	1/8"	1/8"	1/16"	1/16"	0	0	0	0	0	0	0	1/16"	1/16"	1/8"	1/8"	1/8"	1/8"	1/8"	0
AL	1	0	3/16"	7/16"	5/8"	5/8"	9/16"	1/2"	3/8"	3/16"	1/8"	0	0	0	1/8"	3/16"	3/8"	1/2"	9/16"	5/8"	5/8"	7/16"	3/16"	0	0	0	1/16"	1/8"	3/16"	3/16"	3/16"	1/8"	1/8"	1/16"	1/16"	0	0	0	0	0	1/16"	1/8"	1/8"	1/8"	1/8"	1/8"	1/16"	0
	2	0	3/16"	1/2"	3/4"	13/16"	15/16"	11/16"	7/16"	3/8"	3/16"	1/16"	0	0	1/16"	3/16"	3/8"	7/16"	11/16"	13/16"	13/16"	3/4"	1/2"	3/16"	0	0	3/16"	7/16"	5/8"	5/8"	9/16"	1/2"	3/8"	3/16"	1/8"	0	0	0	1/8"	3/16"	3/8"	1/2"	9/16"	5/8"	5/8"	7/16"	3/16"	0
	3	0	1/4"	1/2"	3/4"	7/8"	13/16"	3/4"	7/16"	3/8"	5/16"	1/16"	0	0	1/16"	5/16"	3/8"	7/16"	3/4"	13/16"	7/8"	3/4"	1/2"	1/4"	0	0	1/4"	1/2"	3/4"	7/8"	13/16"	3/4"	7/16"	3/8"	5/16"	1/16"	0	0	1/16"	5/16"	3/8"	7/16"	11/16"	13/16"	3/4"	1/2"	3/16"	0
	4	0	5/16"	5/8"	7/8"	7/8"	13/16"	11/16"	1/2"	9/16"	3/16"	0	0	0	3/16"	5/16"	1/2"	11/16"	13/16"	7/8"	7/8"	5/8"	5/16"	0	0	0	5/16"	5/8"	7/8"	7/8"	13/16"	11/16"	1/2"	5/16"	3/16"	0	0	0	3/16"	5/16"	1/2"	11/16"	13/16"	7/8"	3/4"	1/2"	1/4"	0
	5	0	3/8"	11/16"	15/16"	11/16"	15/16"	13/16"	5/8"	1/2"	5/16"	1/16"	0	0	1/16"	5/16"	1/2"	5/8"	13/16"	15/16"	11/16"	15/16"	11/16"	3/8"	0	0	3/8"	11/16"	15/16"	11/16"	15/16"	13/16"	5/8"	1/2"	5/16"	1/16"	0	0	1/16"	5/16"	1/2"	5/8"	13/16"	15/16"	11/16"	15/16"	11/16"	3/8"	0

WAY ELEVATION SCHEDULE

SIDEWALK	N.G.	℄	S.G.
737.13	736.98	737.34	737.70
737.68	737.52	737.88	738.24
738.22	738.06	738.42	738.78
738.76	738.61	738.97	739.33
739.31	739.15	739.51	739.87
739.85	739.70	740.06	740.42
740.40	740.24	740.60	740.96
740.94	740.78	741.14	741.50
741.48	741.33	741.69	742.05
742.03	741.87	742.23	742.59
742.57	742.42	742.78	743.14
743.12	742.96	743.32	743.68
743.66	743.50	743.86	744.22
744.20	744.05	744.41	744.77
744.75	744.59	744.95	745.31
745.29	745.14	745.50	745.86
745.84	745.68	746.04	746.40
746.38	746.22	746.58	746.94
746.92	746.77	747.13	747.49
747.47	747.31	747.67	748.03
748.01	747.86	748.22	748.58
748.56	748.40	748.76	749.12
749.10	748.94	749.30	749.66
749.64	749.49	749.85	750.21
750.19	750.03	750.39	750.75
750.73	750.58	750.94	751.30
751.28	751.12	751.48	751.84

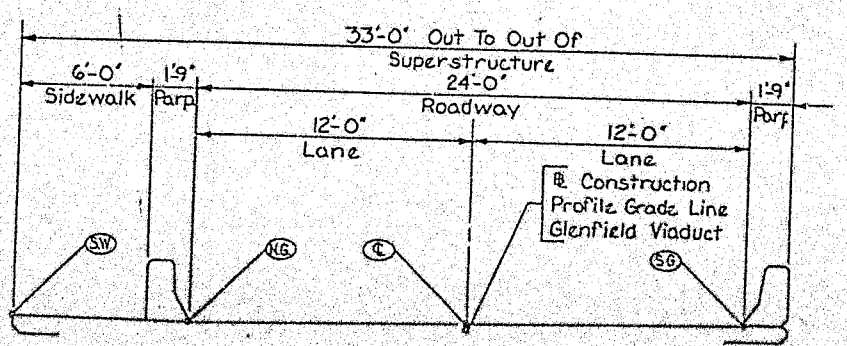
ROADWAY ELEVATION SCHEDULE

UNIT II			UNIT III		
R NO.3 ℄ BEARING	℄ BEARING	℄ BEARING	℄ BEARING	℄ BEARING	℄ BEARING
ARING ℄ PIER NO.4	℄ PIER NO.5	℄ PIER NO.5	℄ PIER NO.6	℄ PIER NO.7	
.65	740.14	743.63	743.72	747.21	750.70
.63	740.12	743.61	743.70	747.19	750.68
.83	740.32	743.81	743.90	747.39	750.88
.03	740.52	744.01	744.10	747.59	751.09



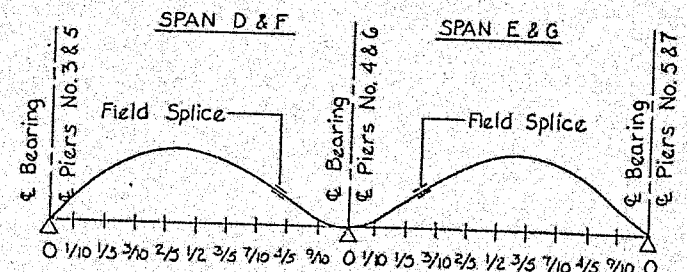
CONTOUR PLAN

Scale: 1"=20'



TYPICAL DECK SECTION

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



CAMBER DIAGRAM

Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				

Commonwealth of Pennsylvania

DEPARTMENT OF TRANSPORTATION

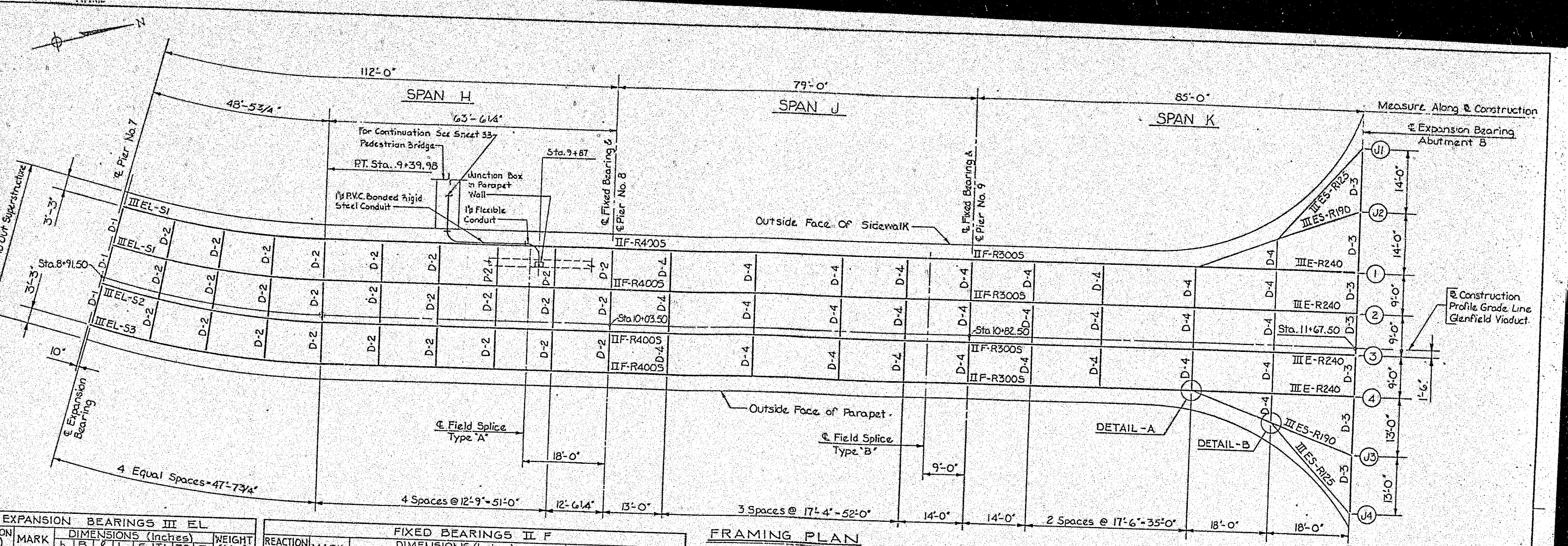
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
CAMBER & ELEV. SCHEDULES - UNITS II & III

RECOMMENDED _____

SHEET 22 OF 32



FRAMING PLAN

Scale: 1" = 10'

EXPANSION BEARINGS III EL

ON	MARK	DIMENSIONS (Inches)							WEIGHT (Lbs)
		b	B	ℓ	L	S	T1	T2	T	
	S1	8"	16"	13"	27½"	9½"	1½"	1¾"	1½"	310
	S2	8"	18"	13"	29½"	9½"	1½"	1¾"	1½"	335
	S3	8"	22"	13"	33½"	9½"	1½"	1¾"	1½"	360

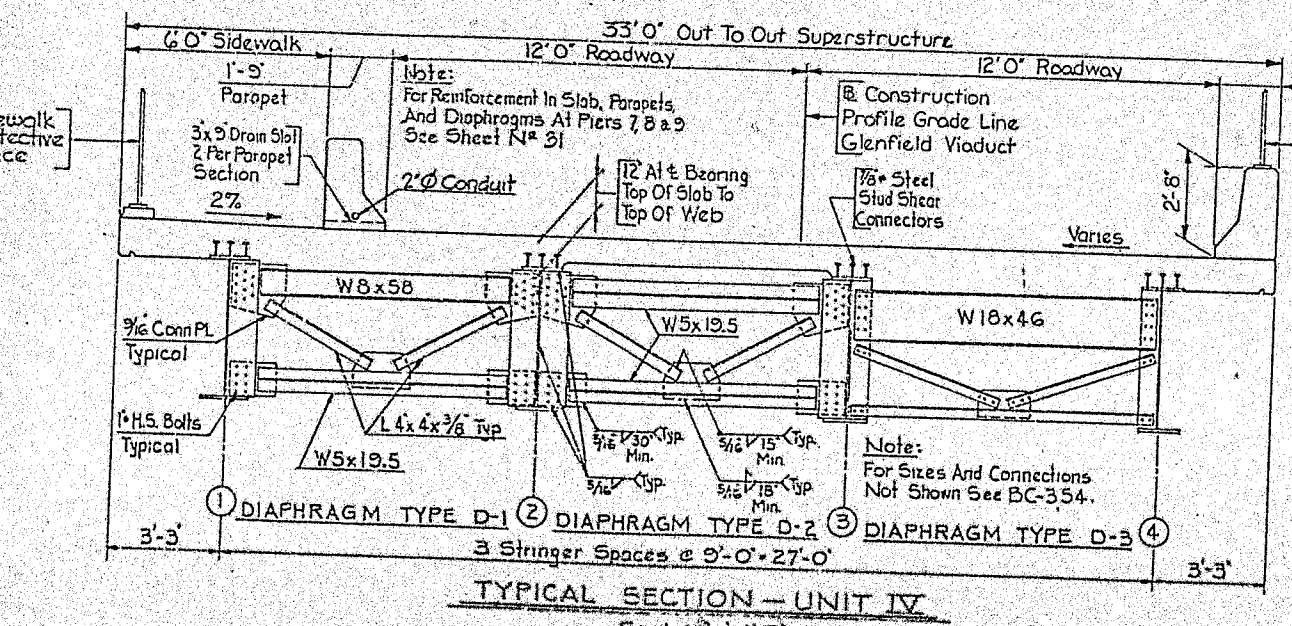
For Details See BC-356A

FIXED BEARINGS III F

REACTION (Kips)	MARK	DIMENSIONS (Inches)						SLOTTED HOLES		WEIGHT (Lbs)
		S	ℓ	L	T1	T2	T3 (Beneath T2) *	T1	T2	
300	R3005	10"	12"	26"	2¾"	2¾"	¾" x 13½" x 27½" W/1⅜" Hole	1¾" x 2"	1¾" x 2"	520
400	R4005	11"	14"	30"	3"	3"	¾" x 15½" x 31½" W/1⅝" Hole	2" x 2¼"	2" x 2¼"	735

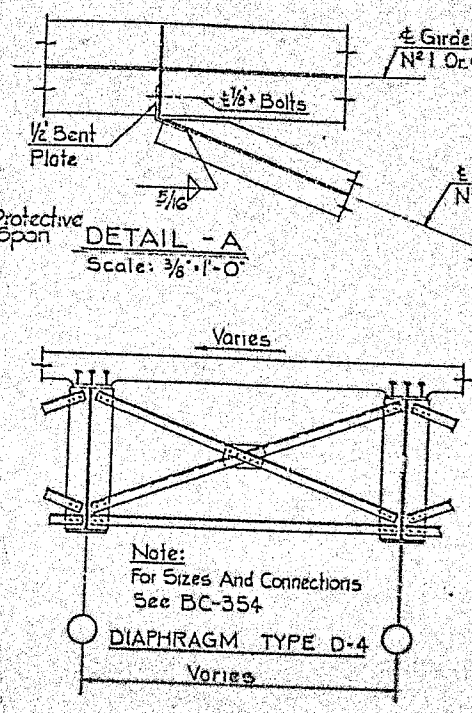
Note: For Details See BC-355A

* ½" Field Weld Both Sides Of PL T3 After Adjustment.



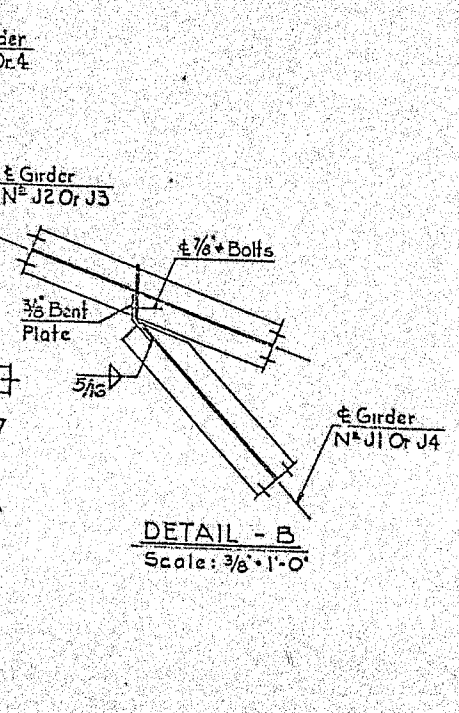
TYPICAL SECTION — UNIT IV

Scale: ⅜" = 1'-0"



DETAIL - A

Scale: ⅜" = 1'-0"



DETAIL - B

Scale: ⅜" = 1'-0"

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

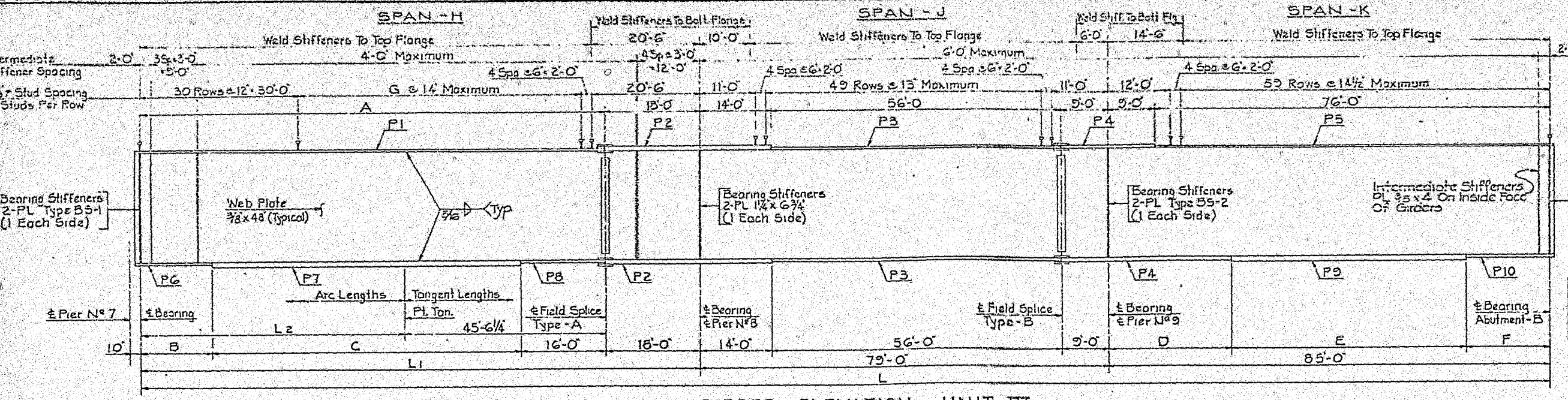
ALLEGHENY COUNTY GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
FRAMING PLAN - UNIT IV

RECOMMENDED _____
BRIDGE ENGINEER

SHEET 25 OF 39

S-1620



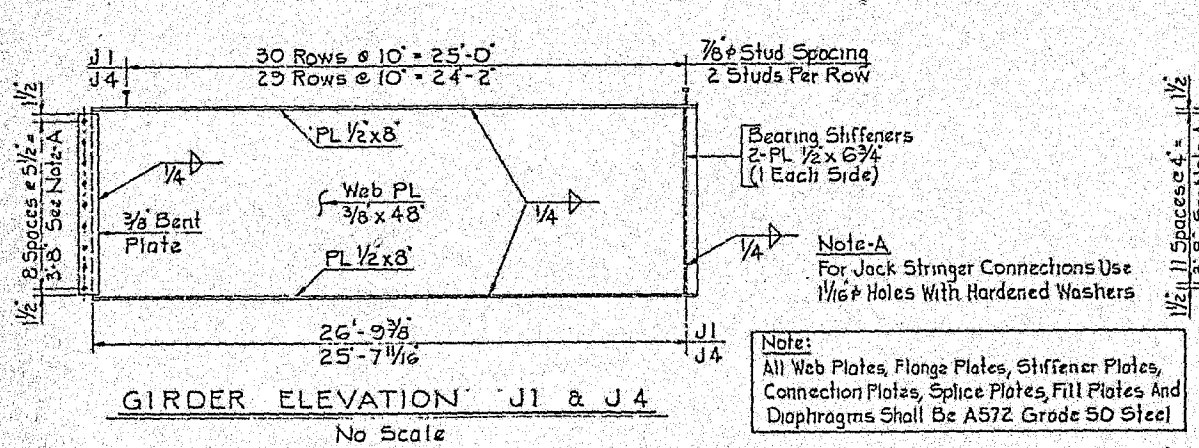
GIRDER ELEVATION — UNIT IV

No Scale

Note:
All Web Plates, Flange Plates, Stiffener Plates, Connection Plates, Splice Plates, Fill Plates And Diaphragms Shall Be A572 Grade 50 Steel

GIRDER DIMENSION SCHEDULE

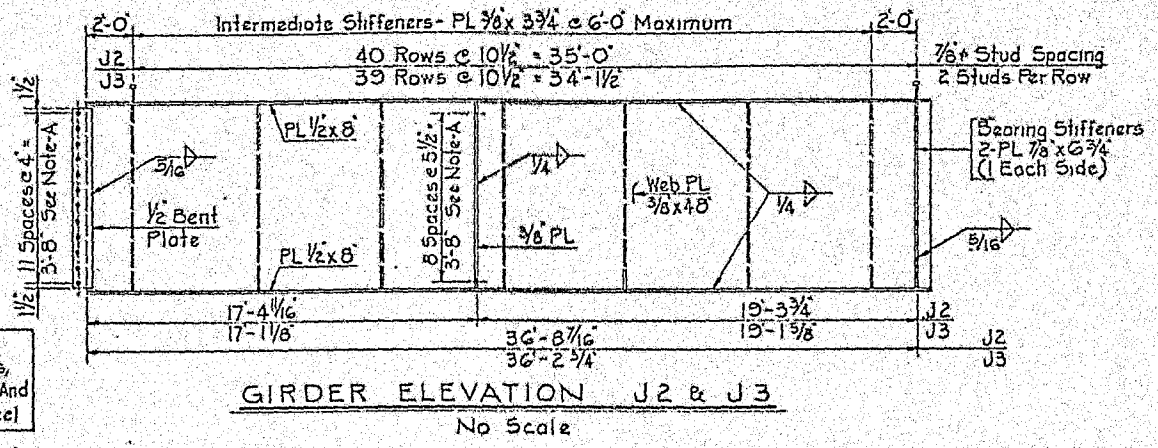
GIRDER NUMBER	RADIUS	GIRDER LENGTHS			FLANGE PLATE LENGTHS						STUD SPAC	FLANGE PLATE SIZES									BEARING STIFFENER SIZES			SPLICE TYPES	
		L	L1	L2	A	B	C	D	E	F	G	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	BS-1	BS-2	BS-3		
1	163.50	270'-8 11/16"	106'-8 11/16"	43'-2 7/16"	88'-8 11/16"	13'-5"	58'-11 11/16"	24'-0"	45'-0"	16'-0"	47 Rows	1" x 14"	1½ x 14"	1" x 14"	1⅛ x 16"	⅞ x 16"	1" x 16"	2" x 16"	1" x 16"	2" x 16"	1" x 16"	1⅛ x 7¾	1¼ x 7¾	⅞ x 7¾	A1	B
2	172.50	273'-1¾"	109'-8 1¾"	45'-7½"	91'-1¾"	14'-6"	60'-7¾"	24'-0"	45'-0"	16'-0"	49 Rows	1 x 14"	1½ x 14"	1" x 14"	1" x 14"	¾ x 14"	1" x 16"	2" x 16"	1" x 16"	—	—	1⅛ x 7¾	1¼ x 6¾	⅞ x 6¾	A1	B
3	181.50	275'-6⅞"	111'-6⅞"	48'-0⅝"	93'-6⅞"	15'-3"	62'-3⅞"	24'-0"	45'-0"	16'-0"	51 Rows	1¼ x 16"	2" x 14"	1" x 14"	1 x 14"	¾ x 14"	1" x 18"	2" x 18"	1" x 18"	—	—	1⅛ x 8¾	1¼ x 6¾	⅞ x 6¾	A2	B
4	190.50	277'-11 15/16"	113'-11 15/16"	50'-5 1/16"	95'-11 15/16"	16'-0"	63'-11 15/16"	24'-0"	45'-0"	16'-0"	53 Rows	1¼ x 16"	2" x 14"	1" x 14"	1⅛ x 16"	⅞ x 16"	1" x 22"	2" x 22"	1⅛ x 22"	2" x 16"	1" x 16"	1⅛ x 10¾	1¼ x 7¾	⅞ x 7¾	A3	B



GIRDER ELEVATION J1 & J4

No Scale

Note:
All Web Plates, Flange Plates, Stiffener Plates, Connection Plates, Splice Plates, Fill Plates And Diaphragms Shall Be A572 Grade 50 Steel



GIRDER ELEVATION J2 & J3

No Scale

NOTE

CONTRACTOR MAY, AT HIS OPTION AND AT NO ADDITIONAL COST TO PENN DOT, SUBSTITUTE A ⅜" THICK WEB PLATE WITHOUT INTERMEDIATE STIFFENERS BETWEEN CROSS FRAMES FOR THE ⅜" THICK WEB PLATE WITH INTERMEDIATE STIFFENERS SHOWN ON THE PLANS. IF THE OPTIONAL WEB PLATE IS USED, CONTRACTOR SHALL SUBMIT CALCULATIONS AND DRAWINGS FOR FIELD SPLICES, WELD SIZES AND DEFLECTIONS TO PENN DOT FOR REVIEW AND APPROVAL, PRIOR TO FABRICATION OF THE GIRDERS.

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

Commonwealth of Pennsylvania

DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE

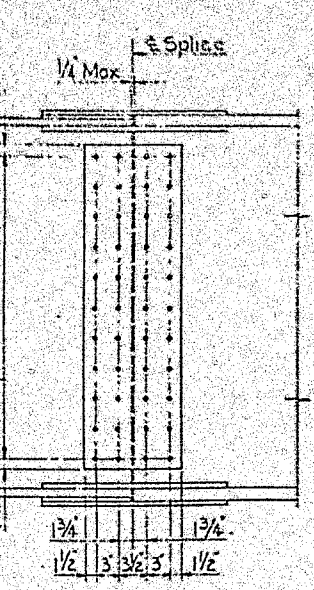
STRINGER DETAILS — UNIT IV

RECOMMENDED _____

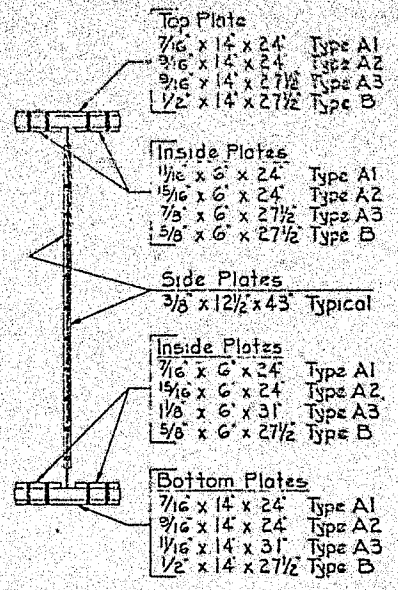
BRIDGE ENGINEER

SHEET 22 OF 33

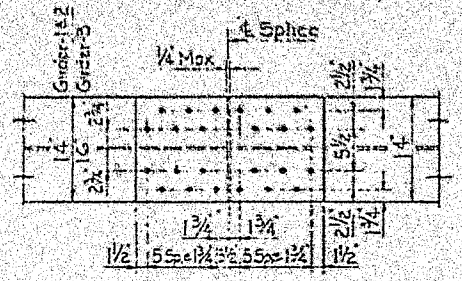
S-1620



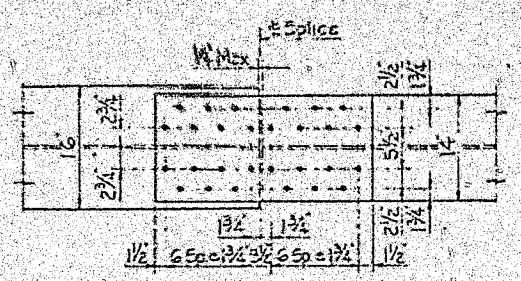
ELEVATION



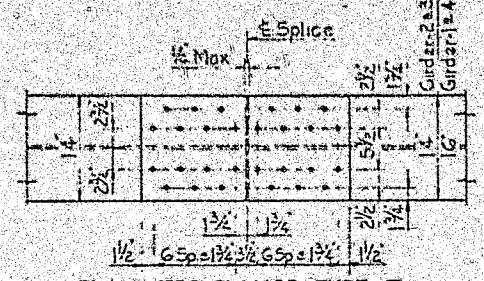
SECTION



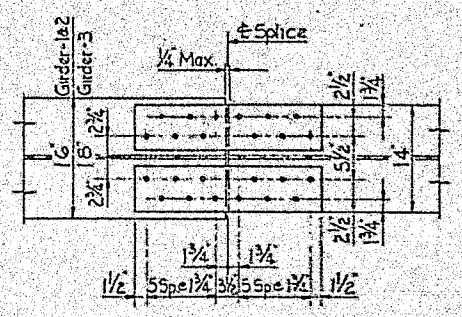
PLAN - TOP FLANGE - TYPE A1 & A2



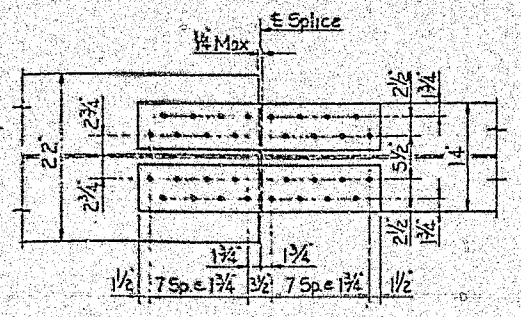
PLAN - TOP FLANGE - TYPE A3



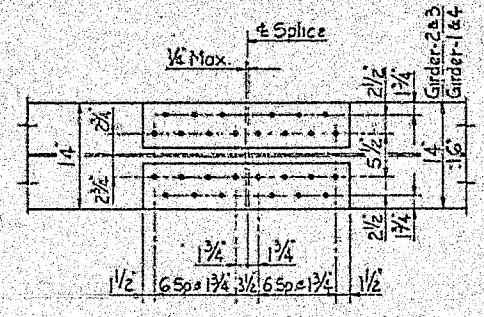
PLAN - TOP FLANGE - TYPE B



PLAN - BOTTOM FLANGE - TYPE A1 & A2



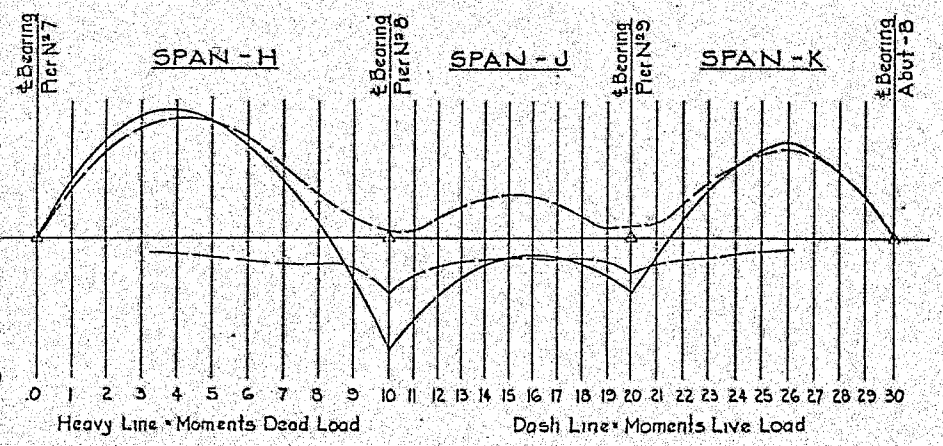
PLAN - BOTTOM FLANGE - TYPE A3



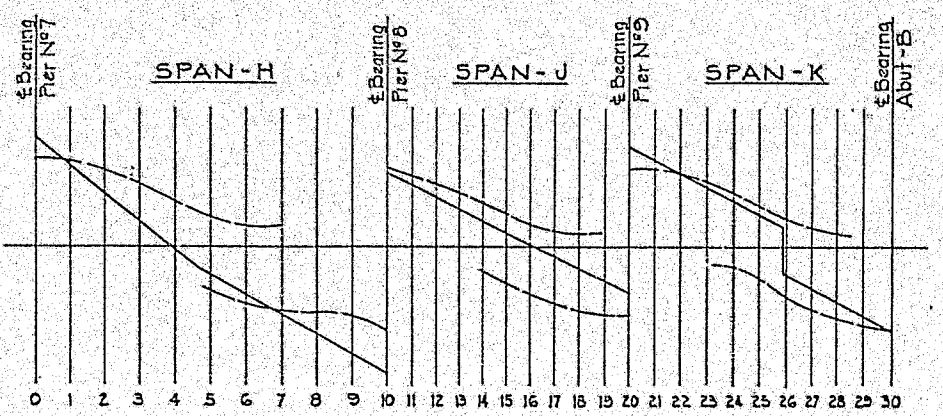
PLAN - BOTTOM FLANGE - TYPE B

FIELD SPLICE DETAILS

Scale: 1"=1'-0"



MOMENT DIAGRAM — UNIT - IV



MOMENT DIAGRAM — UNIT - IV

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
STRINGER SPLICES & DETAILS - UNIT IV

RECOMMENDED _____
BRIDGE ENGINEER

SHEET 27 OF 39

S-16201

UNIT IV ~ CAMBER ORDINATES Y, INCHES

DESCRIPTION	STRINGER NO.	SPAN H										SPAN J										SPAN K									
		℄ BEARING PIER NO.7	1/10	1/5	3/10	2/5	1/2	3/5	7/10	4/5	FS	9/10	℄ BEARING PIER NO.8	1/10	1/5	3/10	2/5	1/2	3/5	7/10	4/5	FS	9/10	℄ BEARING PIER NO.9	1/10	1/5	3/10	2/5	1/2	3/5	7/10	4/5	9/10	℄ BEARING ABUTMENT B
TO GHT OF STEEL	1	0	3/16"	5/16"	7/16"	9/16"	7/16"	5/16"	3/16"	1/16"	3/16"	1/16"	0	-1/16"	-1/16"	-1/16"	-1/16"	-1/16"	-1/16"	-1/16"	-1/16"	-1/16"	-1/16"	0	1/16"	1/16"	3/16"	1/4"	1/4"	1/16"	1/16"	1/16"	1/16"	0
	2	0	5/16"	1/2"	5/8"	3/4"	5/8"	7/16"	5/16"	1/16"	1/4"	1/8"	0	-1/16"	-1/16"	-1/16"	-1/16"	-1/16"	-1/16"	-1/16"	-1/16"	-1/16"	-1/16"	0	1/16"	1/8"	3/16"	1/4"	1/4"	1/4"	3/16"	1/16"	1/16"	0
	3	0	3/8"	5/8"	13/16"	1"	7/8"	5/8"	3/8"	1/16"	5/16"	1/16"	0	-1/16"	-1/16"	-1/16"	-3/16"	-1/16"	-1/16"	-1/16"	-1/16"	-1/16"	-1/16"	0	1/16"	1/8"	3/16"	1/4"	1/4"	1/4"	3/16"	1/16"	1/16"	0
	4	0	1/2"	7/8"	1 1/16"	1 1/4"	1 1/16"	7/8"	5/8"	1/16"	3/8"	1/16"	0	-1/16"	-3/16"	-1/16"	-1/16"	-1/16"	-1/16"	-1/16"	-1/16"	-1/16"	-1/16"	0	1/16"	1/16"	3/16"	1/4"	1/4"	1/4"	3/16"	1/16"	1/16"	0
TO GHT OF DECK SLAB		0	15/16"	1 7/16"	1 15/16"	2 1/16"	1 7/8"	1 5/8"	1 3/16"	1/8"	1/16"	3/16"	0	-5/16"	-1/4"	-5/16"	-3/16"	-1/16"	-1/16"	-1/16"	-1/4"	-3/16"	-1/8"	0	3/16"	5/16"	5/16"	3/16"	1/4"	1/16"	1/16"	1/16"	1/16"	1/16"	0
	2	0	1 1/16"	1 11/16"	2 3/16"	2 1/16"	2 1/16"	1 11/16"	1 1/16"	1/16"	1/16"	1/2"	0	-3/16"	-5/16"	-3/8"	-5/16"	-3/16"	-5/16"	-1/4"	-3/16"	-1/8"		0	1/2"	9/16"	5/8"	11/16"	3/4"	5/16"	1"	3/16"	3/16"		0
	3	0	1 1/2"	2 1/16"	2 3/16"	2 1/16"	2 1/8"	2 1/16"	2"	1 5/16"	1"	5/8"	0	-1/4"	-7/16"	-1/8"	-7/16"	-1/8"	-7/16"	-3/8"	-5/16"	-3/16"	-3/16"	0	1/16"	5/16"	7/8"	1 1/16"	1 1/16"	1 1/16"	1"	3/16"	3/16"		0
	4	0	1 1/2"	2 1/16"	3 3/8"	3 3/16"	3 1/16"	3"	2 5/16"	1 1/2"	1 3/16"	11/16"	0	-5/16"	-9/16"	-1 1/16"	-3/16"	-3/4"	-1 1/16"	-9/16"	-7/16"	-1/4"	-1/4"	0	3/16"	3/8"	1 1/16"	9/16"	1 3/16"	1 5/16"	15/16"	5/16"			0
TO RIMPOSED DEAD LOAD	1	0	3/16"	5/16"	3/8"	7/16"	5/16"	3/8"	5/16"	1/4"	5/16"	1/8"	0	0	0	0	0	0	0	0	0	0	0	0	1/16"	3/16"	1/4"	3/16"	3/16"	5/16"	5/16"	1/4"	1/8"		0
	2	0	1/4"	3/8"	1/2"	9/16"	9/16"	1/4"	7/16"	5/16"	1/16"	1/8"	0	-1/16"	-1/16"	-1/16"	-1/16"	0	0	0	0	0	0	0	1/16"	1/8"	3/16"	1/4"	1/4"	5/16"	1/2"	3/16"	1/16"		0
	3	0	1/4"	1/2"	5/8"	11/16"	11/16"	5/8"	9/16"	3/8"	1/8"	3/16"	0	-1/16"	-1/8"	-1/8"	-1/16"	-1/16"	-1/16"	-1/16"	-1/16"	-1/16"	-1/16"	0	1/16"	3/16"	1/2"	1/2"	5/16"	5/16"	1/4"	3/16"	1/8"		0
	4	0	5/16"	3/8"	7/8"	15/16"	7/8"	5/8"	7/16"	5/16"	1/16"	3/16"	0	-1/16"	-1/8"	-1/8"	-1/8"	-1/8"	-1/16"	-1/16"	-1/16"	-1/16"	-1/16"	0	1/16"	3/16"	1/2"	5/16"	3/8"	5/16"	1/4"	1/4"	1/8"		0
TO SUPERELEVATION OR VERTICAL CURVE	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1/8"	1/8"	1/16"	1/8"	1/8"	0	13/16"	3/8"	4 7/16"	5 7/16"	5/16"	4 1/16"	1 3/16"	13/16"	5/16"		0
	2	0	0	1/16"	1/16"	1/16"	1/16"	0	-1/16"	-1/16"	-1/16"	0	0	0	0	0	0	0	1/8"	1/8"	1/16"	1/8"	1/8"	0	15/16"	2 3/16"	3 1/16"	4 3/16"	3 5/16"	3 3/16"	2 1/16"	2 1/4"	1 5/16"		0
	3	0	1/8	3/16"	5/16"	5/16"	1/16"	-1/16"	-1/16"	-1/16"	-1/16"	0	0	0	0	-1/16"	-1/16"	-1/16"	1/8"	1/8"	1/16"	1/8"	1/8"	0	1 1/16"	2"	3 1/16"	4 5/16"	4 9/16"	4 7/16"	3 5/16"	2 7/16"	2 1/4"	1 3/16"		0
	4	0	1/2"	15/16"	1 1/16"	1 1/16"	15/16"	1 1/16"	1"	3/4"	5/16"	3/16"	0	-3/16"	-5/16"	-5/16"	-1/2"	-5/16"	-5/16"	-3/16"	-1/2"	-1/16"	-1/16"	0	1 1/16"	1 13/16"	2 1/2"	2 3/16"	2 3/16"	2 3/16"	2 3/16"	1 3/4"			0
AL	1	0	13/16"	1 1/16"	1 5/16"	1 3/16"	1 3/16"	1"	7/16"	1 5/16"	1 1/16"	9/16"	0	-1/4"	-3/16"	-3/16"	-7/16"	-7/16"	-1/2"	-1/4"	-3/16"	-1/16"	-1/16"	0	2 1/16"	4 5/16"	5 5/16"	6 5/16"	7 1/16"	6 5/16"	5 1/16"	3 1/16"	2 1/16"	1 1/16"	0
	2	0	1 5/16"	2 1/16"	2 5/16"	2 3/16"	2 1/16"	1 5/16"	7/16"	1 5/16"	1 1/16"	3/4"	0	-5/16"	-1/2"	-3/16"	-9/16"	-1/2"	-5/16"	-1/4"	-3/16"	-1/16"	-1/16"	0	1 11/16"	3 3/16"	4 1/2"	5 3/16"	5 9/16"	5 1/16"	4 5/16"	3 3/16"	1 3/16"		0
	3	0	2"	3 1/16"	4 7/8"	5 1/16"	5 1/16"	4 1/8"	3 1/16"	1 15/16"	1 1/16"	1"	0	-3/16"	-11/16"	-15/16"	-15/16"	-7/8"	-13/16"	-9/16"	-1/2"	-5/16"	-5/16"	0	2 1/16"	3 5/16"	5 1/16"	5 5/16"	6 5/16"	6 3/16"	5 1/16"	4 1/16"	2"		0
	4	0	2 5/16"	3 1/16"	4 1/16"	4 1/16"	3 15/16"	3 5/16"	2 13/16"	2 3/16"	1 5/16"	1/2"	0	-7/16"	-1 1/16"	-2"	-2 5/16"	-2 1/16"	-2 1/16"	-1 5/16"	-1 1/16"	-1/2"	-1/2"	0	1 3/16"	2 7/8"	3 5/16"	4 5/16"	4 7/16"	4 7/16"	4 1/2"	3 5/16"	1 9/16"		0

JACKSTRINGERS, CAMBER ORDINATES Y, INCHES

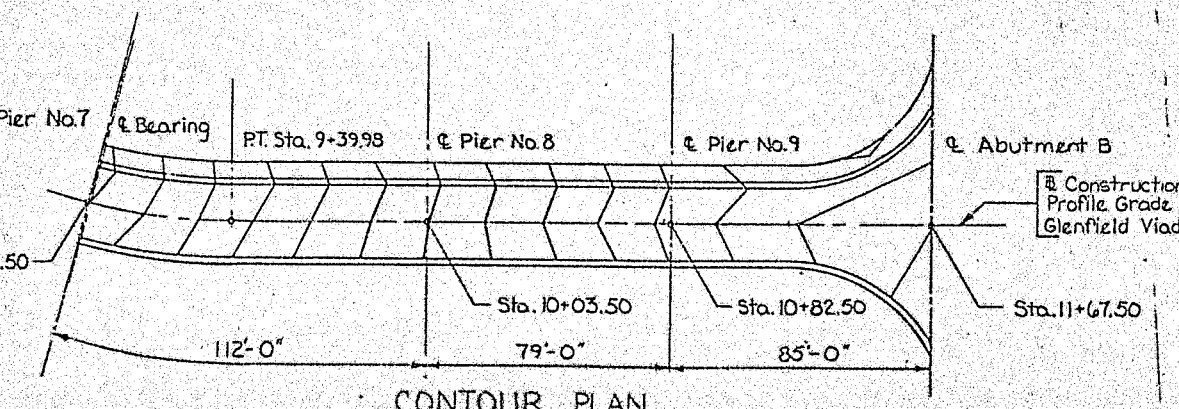
DESCRIPTION	STRINGER NO.	SPAN K				
		CONNECTION POINT	1/4	1/2	3/4	℄ BEARING ABUTMENT B
TO HT OF STEEL	J1	0	0	0	0	0
	J2	0	0	1/16"	0	0
	J3	0	0	0	0	0
	J4	0	0	1/16"	0	0
TO HT OF DECK SLAB	J1	0	0	1/16"	0	0
	J2	0	1/4"	3/8"	1/4"	0
	J3	0	0	1/16"	0	0
	J4	0	1/4"	3/8"	1/4"	0
TO RIMPOSED DEAD LOAD	J1	0	0	0	0	0
	J2	0	1/16"	1/16"	1/16"	0
	J3	0	0	0	0	0
	J4	0	1/16"	1/16"	1/16"	0
TO SUPERELEVATION OR VERTICAL CURVE	J1	0	13/16"	15/16"	15/16"	0
	J2	0	15/16"	1 1/16"	3/8"	0
	J3	0	-3/8"	-1/4"	-3/8"	0
	J4	0	-1/8"	-1/4"	-1/8"	0
TOTAL	J1	0	13/16"	13/8"	15/16"	0
	J2	0	1 1/4"	1 15/16"	1 1/16"	0
	J3	0	-3/8"	-3/16"	-3/8"	0
	J4	0	3/16"	1/4"	3/16"	0

ROADWAY ELEVATION SCHEDULE

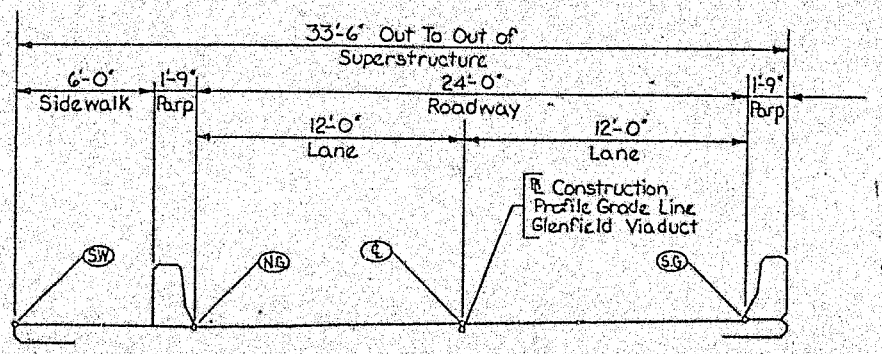
STATION	SIDEWALK	NB	℄	SB
9+00	751.28	751.12	751.48	751.84
9+10	751.82	751.69	752.02	752.36
9+20	752.34	752.21	752.57	752.93
9+30	752.91	752.75	753.11	753.47
9+40	753.45	753.30	753.66	754.02
9+50	754.00	753.84	754.18	754.49
9+60	754.54	754.38	754.67	754.96
9+70	755.08	754.93	755.18	755.43
9+80	755.63	755.47	755.71	755.90
9+90	756.17	756.02	756.26	756.38
10+00	756.72	756.56	756.80	756.85
10+10	757.26	757.10	757.34	757.32
10+20	757.80	757.65	757.89	757.79
10+30	758.35	758.19	758.43	758.26
10+40	758.89	758.74	758.98	758.74
10+50	759.44	759.28	759.52	759.28
10+60	759.98	759.82	760.06	759.82
10+70	760.52	760.37	760.61	760.37
10+80	761.06	760.91	761.15	760.91
10+90	761.54	761.30	761.65	761.33
11+00	762.01	761.65	761.10	761.84
11+10	762.32	762.08	762.51	762.24
11+20	762.63	762.47	762.87	762.61
11+30	762.88	762.71	763.19	762.98
11+40	763.00	762.82	763.46	763.28
11+50	763.03	762.90	763.69	763.50
11+60	762.88	762.85	763.87	764.28

ROADWAY ELEVATION SCHEDULE
UNIT IV

STRINGER NO.	℄ BEARING PIER NO.7	℄ BEARING PIER NO.8	℄ BEARING PIER NO.9	℄ BEARING ABUTMENT B
J1	———	———	———	762.57
J2	———	———	———	762.89
1	750.79	756.84	761.10	763.39
2	750.84	756.84	761.09	763.71
3	751.11	756.99	761.24	764.01
4	751.38	757.01	761.06	764.19
J3	———	———	———	764.46
J4	———	———	———	764.72



CONTOUR PLAN
Scale: 1"= 30'



TYPICAL DECK SECTION
Scale: 1/8"=1'-0"

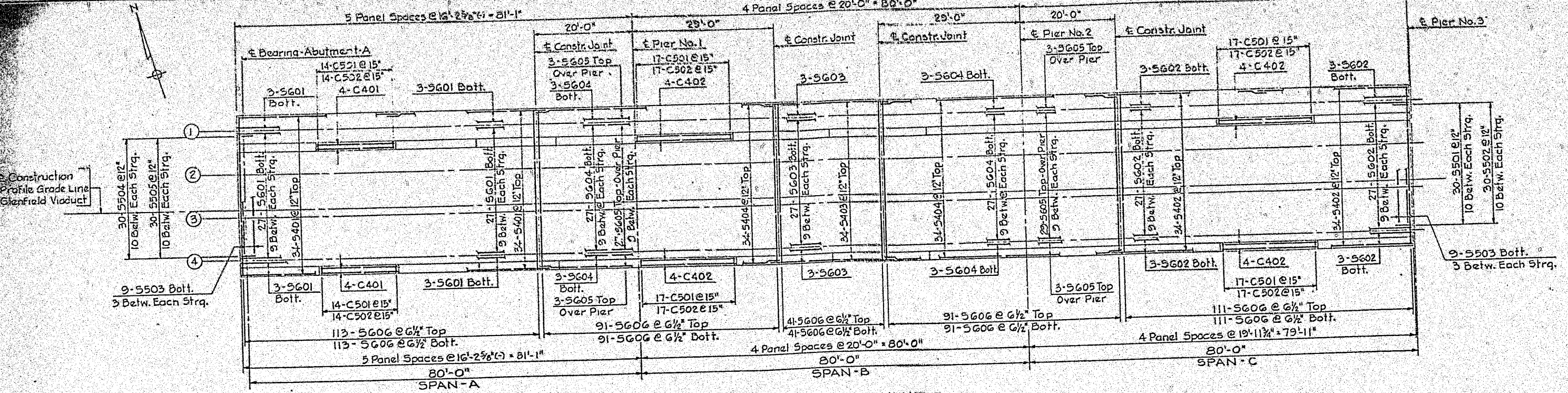
Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
CAMBER & ELEV. SCHEDULE - UNIT IV

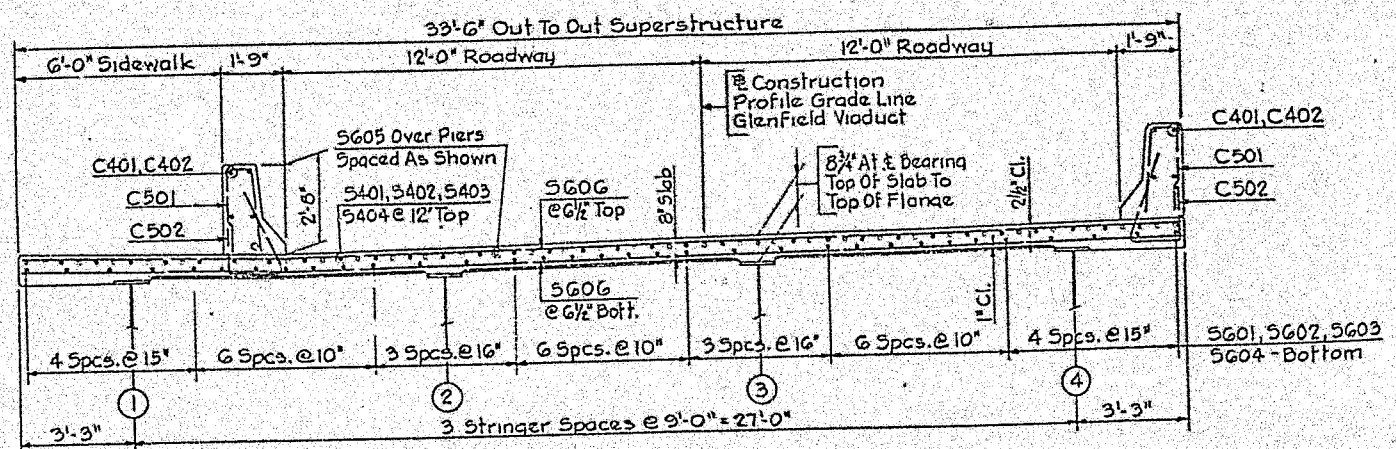
RECOMMENDED _____
BRIDGE ENGINEER

SHEET 22 OF 39
S-16201



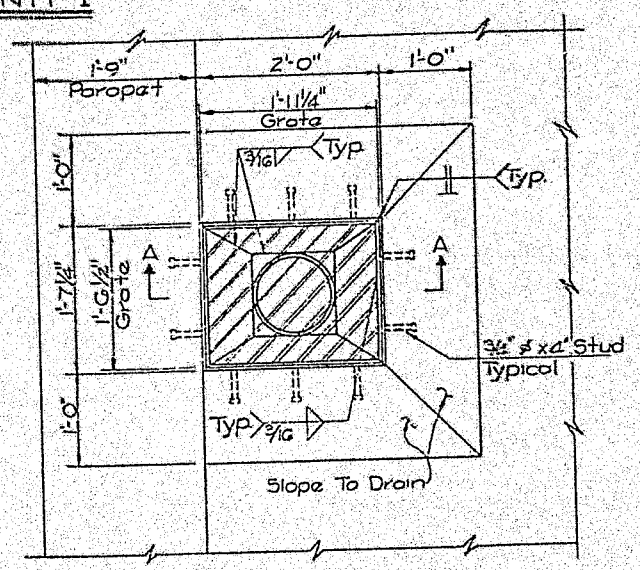
DECK PLAN - UNIT I

Scale: 1" = 10'

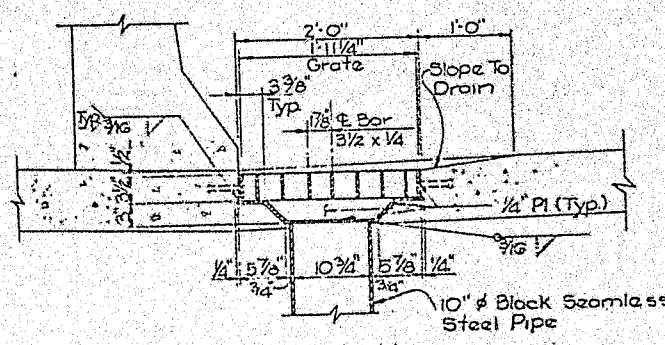


TYPICAL SECTION - UNIT I

Scale: ⅜" = 1'-0"



PLAN



SECTION-AA

SCUPPER DETAILS

Scale: 1" = 1'-0"

NOTES:

1. Welded Frame With Removable Grate Shall Be Galvanized After Fabrication In Accordance With ASTM A123
2. Deck Reinforcing Steel May Be Cut Or Repositioned To Clear Drain Assembly. Additional Reinforcing Steel Shall Be Placed Around Drain Assembly To Replace Cut Bars.

NOTE

For Slab Pouring Sequence And Bar Schedule See Sheet 32

Mark	Description	By	Chk'd.	App'd.	Da
REVISIONS					

Commonwealth of Pennsylvania

DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRID

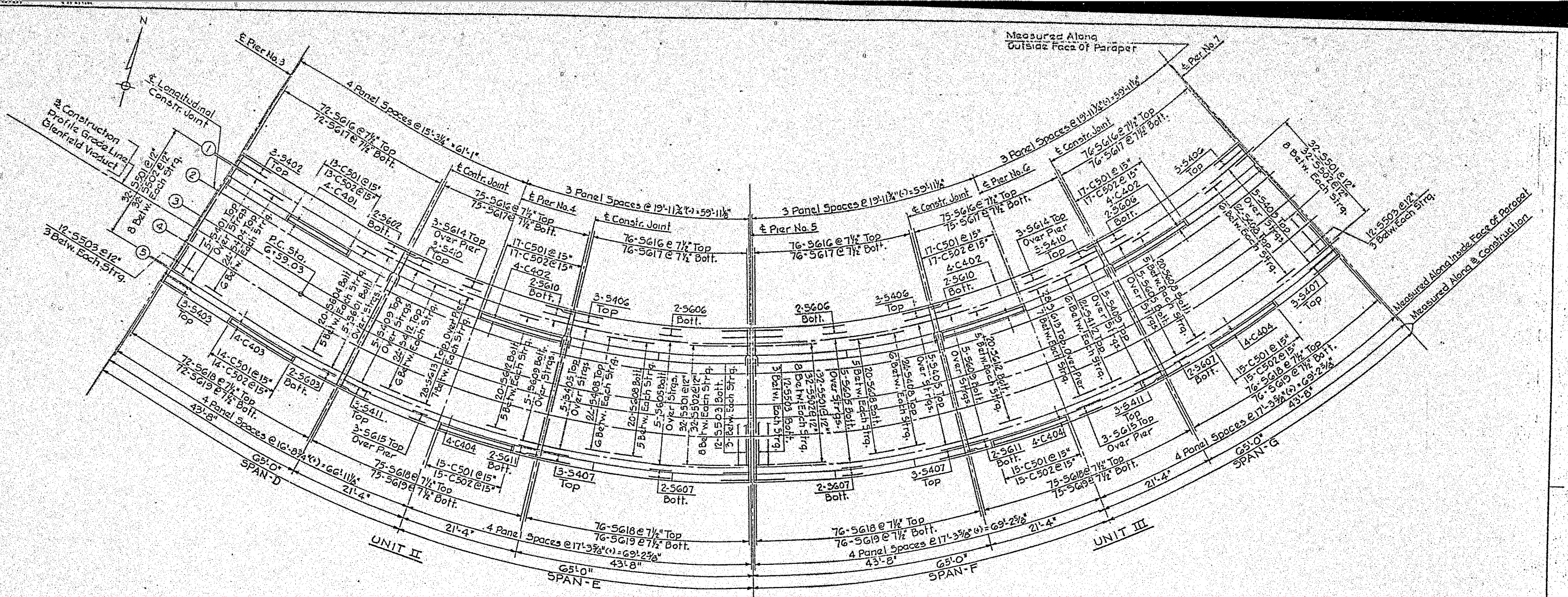
DECK PLAN - UNIT I

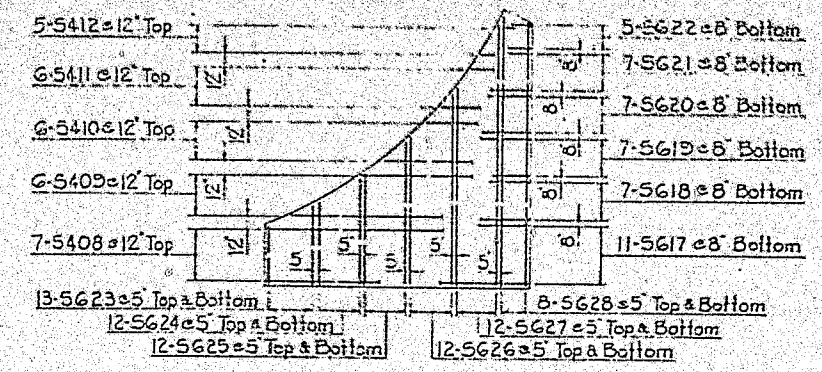
RECOMMENDED _____

BRIDGE ENGINEER

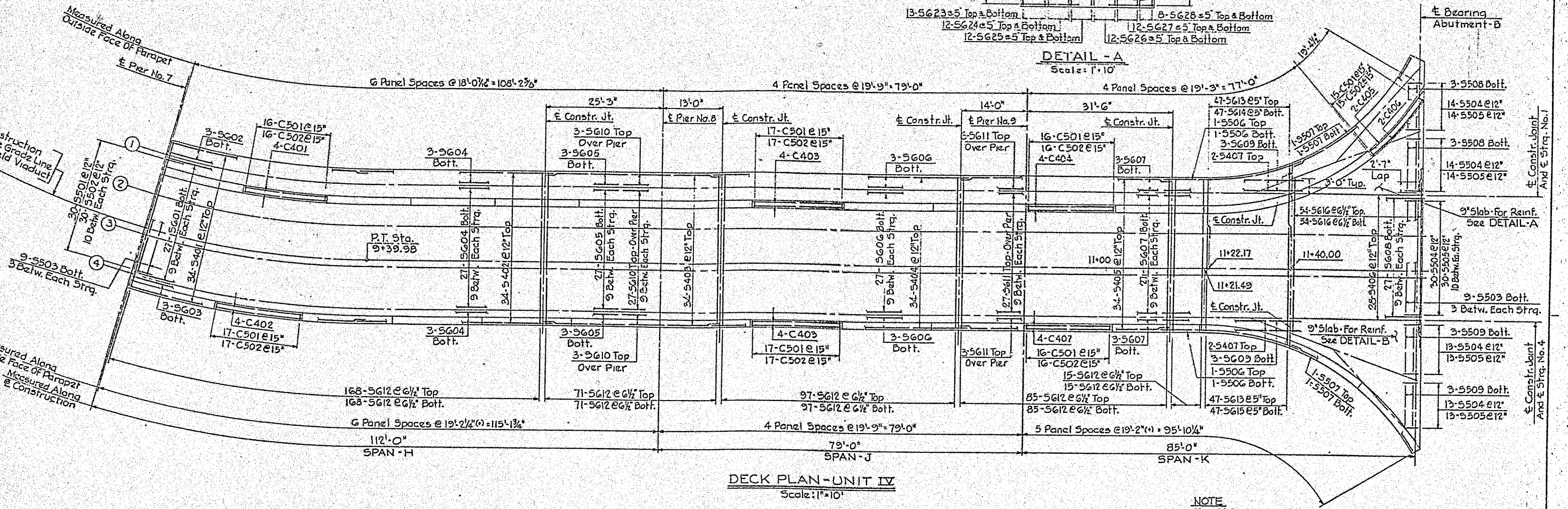
SHEET 29 OF

S-16201


N
℄ Pier No.3
℄ Longitudinal Constr. Joint
℄ Construction Profile Grade Line Glenfield Viaduct
4 Panel Spaces @ 15'-3¼" = 61'-1"
76-S616 @ 7½" Top
72-S617 @ 7½" Bott.
℄ Constr. Joint
℄ Pier No.4
3 Panel Spaces @ 19'-11¾"(-) = 59'-11⅝"
75-S616 @ 7½" Top
75-S617 @ 7½" Bott.
℄ Constr. Joint
76-S616 @ 7½" Top
76-S617 @ 7½" Bott.
℄ Pier No.5
3 Panel Spaces @ 19'-11¾"(-) = 59'-11⅝"
℄ Pier No.6
℄ Constr. Joint
76-S616 @ 7½" Top
76-S617 @ 7½" Bott.
℄ Pier No.7
Measured Along Outside Face of Parapet
Measured Along Inside Face of Parapet
Measured Along ℄ Construction
32-S501 @ 12"
3 Batw. Each Strg.
8 Batw.
12-S503 @ 12"
3 Batw. Each Strg.
P.C. Sta. 6+59.03
3-S402 Top
13-C501 @ 15"
13-C502 @ 15"
4-C401
2-S602 Bott.
3-S614 Top Over Pier
3-S410 Top
17-C501 @ 15"
17-C502 @ 15"
4-C402
2-S610 Bott.
2-S606 Bott.
3-S406 Top
3-S403 Top
14-C403
14-C501 @ 15"
14-C502 @ 15"
2-S603 Bott.
72-S618 @ 7½" Top
72-S619 @ 7½" Bott.
4 Panel Spaces @ 16'-8¾"(-) = 66'-11⅛"
43'-8"
G5'-0"
SPAN-D
21'-4"
UNIT II
3-S411 Top
3-S615 Top Over Pier
4-C404
2-S611 Bott.
15-C501 @ 15"
15-C502 @ 15"
75-S618 @ 7½" Top
75-S619 @ 7½" Bott.
4 Panel Spaces @ 17'-3⅝"(-) = 69'-2⅝"
43'-8"
G5'-0"
SPAN-E
3-S407 Top
2-S607 Bott.
76-S618 @ 7½" Top
76-S619 @ 7½" Bott.
4 Panel Spaces @ 17'-3⅝"(-) = 69'-2⅝"
43'-8"
G5'-0"
SPAN-F
21'-4"
UNIT III
3-S411 Top
3-S615 Top Over Pier
4-C404
2-S611 Bott.
15-C501 @ 15"
15-C502 @ 15"
75-S618 @ 7½" Top
75-S619 @ 7½" Bott.
4 Panel Spaces @ 17'-3⅝"(-) = 69'-2⅝"
43'-8"
G5'-0"
SPAN-G
21'-4"
3-S407 Top
2-S607 Bott.
4-C404
15-C501 @ 15"
15-C502 @ 15"
76-S618 @ 7½" Top
76-S619 @ 7½" Bott.
4 Panel Spaces @ 17'-3⅝"(-) = 69'-2⅝"
43'-8"
20-S608 Bott. 5 Batw. Each Strg.
5-S609 Bott. Over Strgs.
5-S405 Top Over Strgs.
24-S408 Top 6 Batw. Each Strg.
5-S609 Top Over Strgs.
24-S412 Top 6 Batw. Each Strg.
28-S613 Top Over Pier 7 Batw. Each Strg.
20-S608 Bott. 5 Batw. Each Strg.
5-S609 Bott. Over Strgs.
5-S405 Top Over Strgs.
24-S408 Top 6



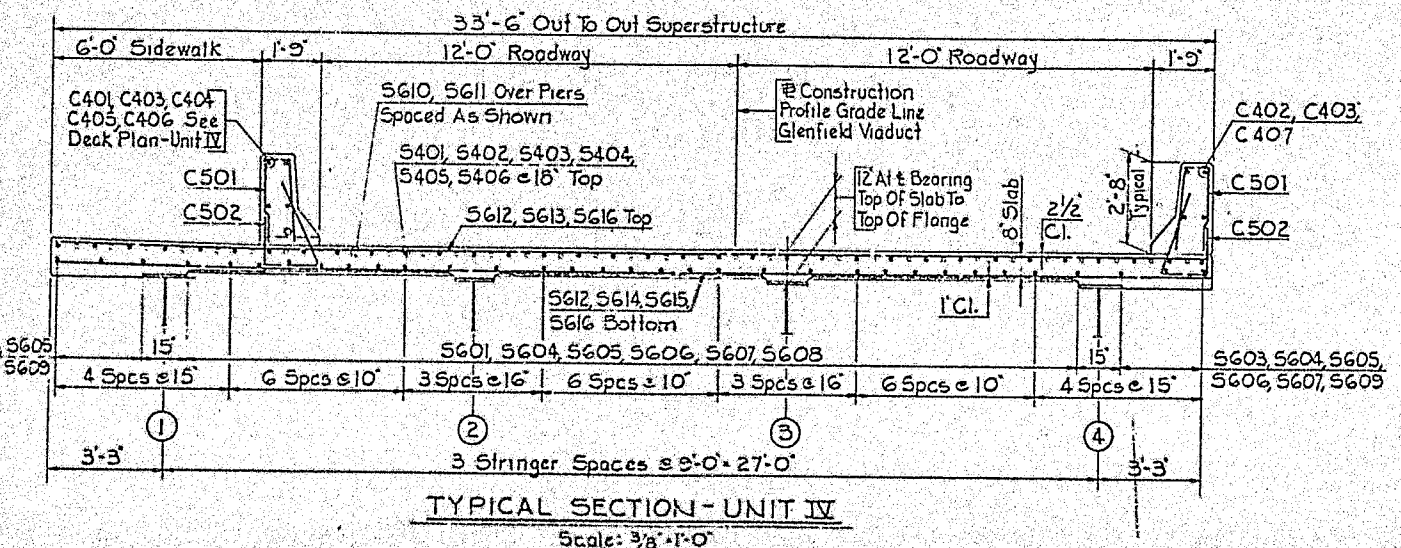
DETAIL - A
Scale: 1"=10'



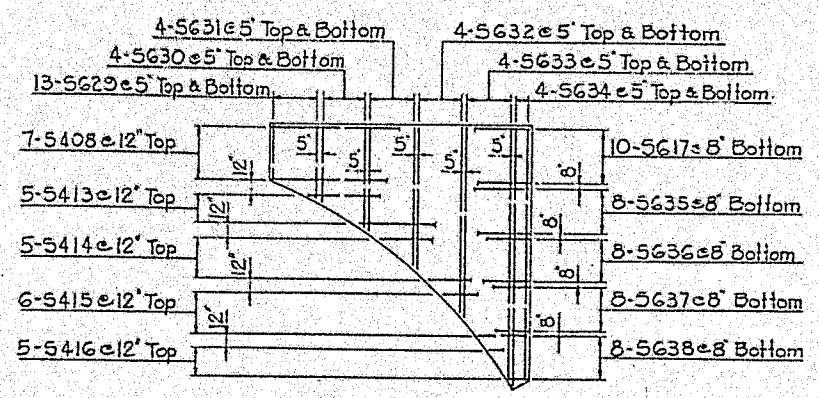
DECK PLAN - UNIT IV
Scale: 1"=10'

NOTE
For Slab Pouring Sequence And Bar Schedule See Sheet 32

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					



TYPICAL SECTION - UNIT IV
Scale: ⅜"=1'-0"



DETAIL - B
Scale: 1"=10'

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
DECK PLAN - UNIT IV

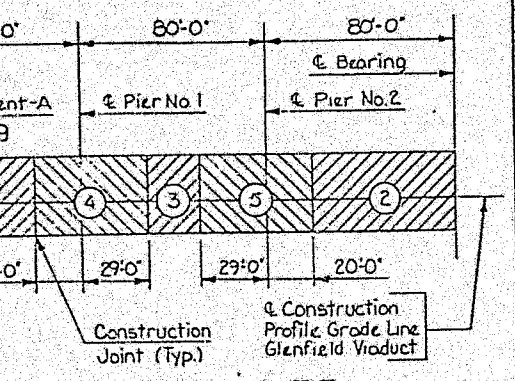
RECOMMENDED _____
BRIDGE ENGINEER

SHEET 31 OF 39

S-16201

BAR SCHEDULE ~ UNIT I

E	TYPE	NO	LENGTH	REMARKS
4	STR.	68	31'-11"	
4	STR	65	31'-4"	
4	STR	32	25'-0"	
4	STR	65	48'-8"	
5	1	30	2'-4"	
5	2	30	3'-4"	
5	STR.	18	8'-6"	
5	1	30	2'-8"	
5	2	30	4'-0"	
6	STR	66	32'-7"	
6	STR	66	32'-0"	
6	STR	33	26'-4"	
6	STR	66	48'-8"	
6	STR	66	44'-0"	
6	STR	894	33'-2"	
4	STR.	40	15'-10"	
4	STR	64	19'-7"	
5	3	412	5'-5"	
5	4	412	6'-3"	

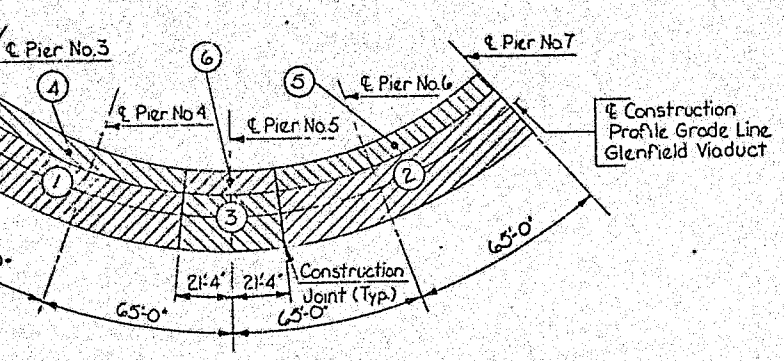


POURING SEQUENCE ~ UNIT I

Scale: 1"=40'

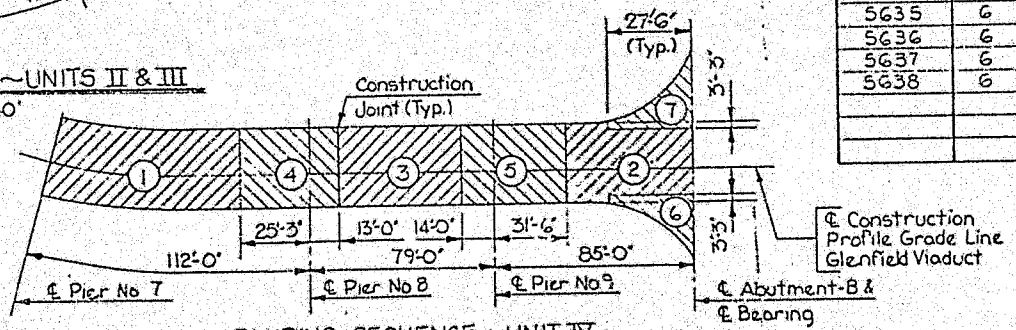
BAR SCHEDULE ~ UNITS II & III

MARK	SIZE	TYPE	NO	LENGTH	REMARKS
S401	#4	STR	5	43'-0" TO 45'-4"	VARY EACH BY 7"
S402	#4	STR	3	42'-8"	
S403	#4	STR	3	45'-7"	
S404	#4	STR	24	43'-0" TO 45'-4"	VARY EACH BY 3"
S405	#4	STR	15	40'-11" TO 43'-4"	VARY 3 EA. BY 1'-7½"
S406	#4	STR	2	40'-3"	
S407	#4	STR	2	48'-1"	
S408	#4	STR	72	40'-11" TO 43'-4"	VARY 3 EA. BY 8"
S409	#4	STR	10	38'-6" TO 44'-11"	VARY 2 EA. BY 1'-7½"
S410	#4	STR	6	37'-10"	
S411	#4	STR	6	45'-8"	
S412	#4	STR	48	38'-6" TO 44'-11"	VARY 2 EA. BY 3½"
S501	#5	1	128	2'-4"	
S502	#5	2	128	3'-4"	
S503	#5	STR.	48	6'-3"	
S601	#6	STR.	5	43'-8" TO 46'-0"	VARY EACH BY 7"
S602	#6	STR.	2	43'-4"	
S603	#6	STR.	2	46'-3"	
S604	#6	STR	20	43'-8" TO 46'-0"	VARY EACH BY 1½"
S605	#6	STR.	15	41'-7" TO 48'-0"	
S606	#6	STR.	6	40'-11"	
S607	#6	STR	6	48'-9"	
S608	#6	STR.	60	41'-7" TO 48'-0"	VARY 3 EA. BY 4"
S609	#6	STR.	10	38'-6" TO 44'-11"	VARY 2 EA. BY 1'-7½"
S610	#6	STR	4	37'-10"	
S611	#6	STR.	4	45'-8"	
S612	#6	STR.	40	36'-6" TO 44'-11"	VARY 2 EA. BY 4"
S613	#6	STR.	56	36'-6" TO 44'-11"	VARY 2 EA. BY 2⅞"
S614	#6	STR.	6	37'-10"	
S615	#6	STR.	6	45'-8"	
S616	#6	STR	374	7'-11"	
S617	#6	STR.	374	9'-8"	
S618	#6	STR.	374	27'-10"	
S619	#6	STR.	374	26'-1"	
C401	#4	STR.	16	14'-10"	
C402	#4	STR.	36	19'-7"	
C403	#4	STR.	16	16'-4"	
C404	#4	STR.	48	16'-11"	
C501	#5	3	123	5'-5"	
C502	#5	4	123	6'-3"	



POURING SEQUENCE ~ UNITS II & III

Scale: 1"=40'



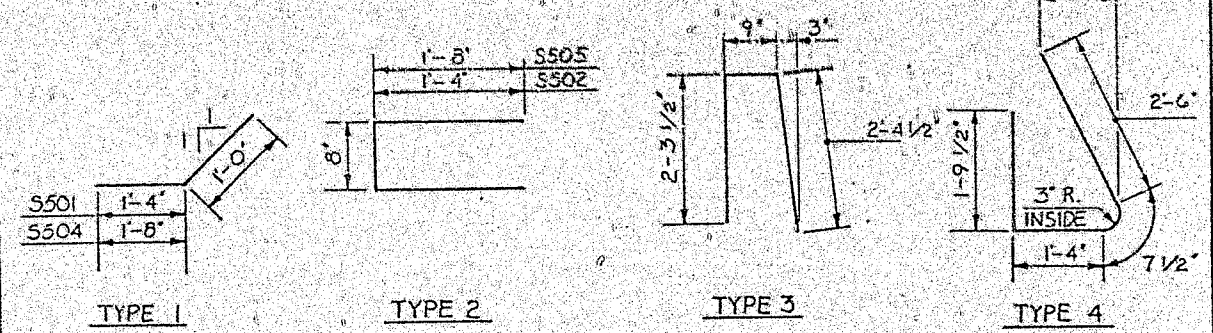
POURING SEQUENCE ~ UNIT IV

Scale: 1"=40'

BAR SCHEDULE ~ UNIT IV

MARK	SIZE	TYPE	NO	LENGTH	REMARKS
S401	4	STR	32	48'-11" TO 51'-10"	VARY BY 3¼"
S402	4	STR	36	41'-1"	
S403	4	STR	32	37'-11"	
S404	4	STR	32	55'-0"	
S405	4	STR	32	45'-2"	
S406	4	STR	25	54'-1"	
S407	4	STR	4	29'-0"	
S408	4	STR	12	28'-3"	
S409	4	STR	6	18'-2" TO 25'-8"	VARY BY 1'-6"
S410	4	STR	6	11'-0" TO 16'-0"	VARY BY 1'-0"
S411	4	STR	6	6'-8" TO 9'-8"	VARY BY 7½"
S412	4	STR	5	3'-8" TO 5'-8"	VARY BY 6"
S413	4	STR	5	18'-10 TO 24'-8"	VARY BY 1'-5½"
S414	4	STR	5	10'-11 TO 16'-5"	VARY BY 1'-2½"
S415	4	STR	6	5'-6 TO 9'-6"	VARY BY 7½"
S416	4	STR	5	2'-4 TO 4'-4"	VARY BY 6"
S501	5	1	30	2'-4"	
S502	5	2	30	3'-4"	
S503	5	STR	18	8'-6"	
S504	5	1	84	2'-8"	
S505	5	2	84	4'-0"	
S506	5	STR.	4	30'-10"	
S507	5	STR.	4	35'-8"	
S508	5	STR.	6	13'-0"	
S509	5	STR.	6	12'-0"	
S601	6	STR.	27	43'-11" TO 48'-10"	VARY BY 2 1/4" (+)
S602	6	STR.	3	42'-11" TO 43'-7"	VARY BY 4"
S603	6	STR.	3	51'-2" TO 51'-10"	VARY BY 4"
S604	6	STR.	33	42'-5"	
S605	6	STR.	33	37'-11"	
S606	6	STR.	33	56'-4"	
S607	6	STR	33	45'-2"	
S608	6	STR.	27	56'-7"	
S609	6	STR	6	30'-4"	
S610	6	STR	33	36'-10"	
S611	6	STR	33	30'-10"	
S612	6	STR.	872	33'-2"	
S613	6	STR	94	17'-11" TO 21'-4"	VARY 2 EA. BY 15/16" (-)
S614	6	STR	47	13'-5" TO 16'-11"	VARY BY 15/16" (-)
S615	6	STR	47	22'-5" TO 25'-8"	VARY BY 7/8" (-)
S616	6	STR	54	33'-0"	
S617	6	STR	21	28'-3"	
S618	6	STR	7	19'-0" TO 26'-6"	VARY BY 15"
S619	6	STR	7	13'-8" TO 18'-2"	VARY BY 9"
S620	6	STR	7	8'-10" TO 12'-4"	VARY BY 7"
S621	6	STR	7	5'-8" TO 8'-2"	VARY BY 5"
S622	6	STR	5	3'-8" TO 5'-0"	VARY BY 4"
S623	6	STR	26	6'-5" TO 8'-7"	VARY 2 EA. BY 23/16"
S624	6	STR	24	8'-9" TO 11'-4"	VARY 2 EA. BY 2 13/16"
S625	6	STR	24	11'-8" TO 15'-6"	VARY 2 EA. BY 4 3/16"
S626	6	STR	24	15'-8" TO 20'-10"	VARY 2 EA. BY 5 5/8"
S627	6	STR	24	21'-6" TO 28'-6"	VARY 2 EA. BY 7 5/8"
S628	6	STR	16	28'-8" TO 29'-10"	VARY 2 EA. BY 1 3/4"
S629	6	STR	26	7'-2" TO 8'-5"	VARY 2 EA. BY 1¼"
S630	6	STR	26	8'-5" TO 11'-5"	VARY 2 EA. BY 2¾"
S631	6	STR	26	11'-8" TO 15'-5"	VARY 2 EA. BY 3¾"
S632	6	STR	26	15'-8" TO 20'-8"	VARY 2 EA. BY 5"
S633	6	STR	26	21'-2" TO 27'-8"	VARY 2 EA. BY 6½"
S634	6	STR	8	27'-8" TO 28'-5"	VARY 2 EA. BY 3"
S635	6	STR	8	17'-8" TO 26'-8"	VARY 2 EA. BY 1'-3⅛"
S636	6	STR	8	10'-11" TO 16'-8"	VARY 2 EA. BY 5 13/16"
S637	6	STR	8	5'-11" TO 10'-5"	VARY 2 EA. BY 7¾"
S638	6	STR	8	2'-2" TO 5'-6"	VARY 2 EA. BY 5 11/16"

BAR TYPES



BAR SCHEDULE ~ UNIT IV (CONT.)

MARK	SIZE	TYPE	NO.	LENGTH	REMARKS
C401	4	STR.	24	17'-8"	
C402	4	STR.	24	18'-9"	
C403	4	STR	32	19'-4"	
C404	4	STR	16	18'-10"	
C405	4	STR	2	18'-7"	
C406	4	STR.	2	16'-10"	
C407	4	STR.	20	18'-3"	
C501	5	3	493	5'-5"	
C502	5	4	493	6'-3"	

NOTE

This Schedule Does Not Include Reinforcement For Light Pole Anchorages Or The Approach Slabs. For Reinforcement And Details Of These Items, See Supplemental Drawings BC-322A And RC-23

All Reinforcement Shall Be Epoxy Coated

Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				

Commonwealth of Pennsylvania

DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE

DECK DETAILS & BAR SCHEDULES

RECOMMENDED _____

BRIDGE ENGINEER

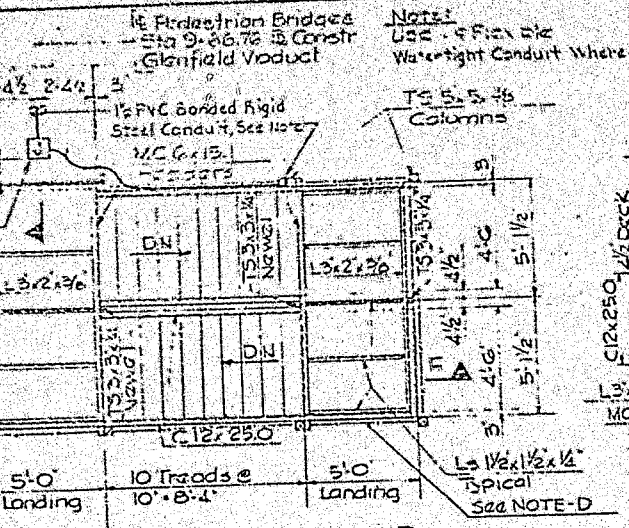
SHEET 32 OF 32

S-16201

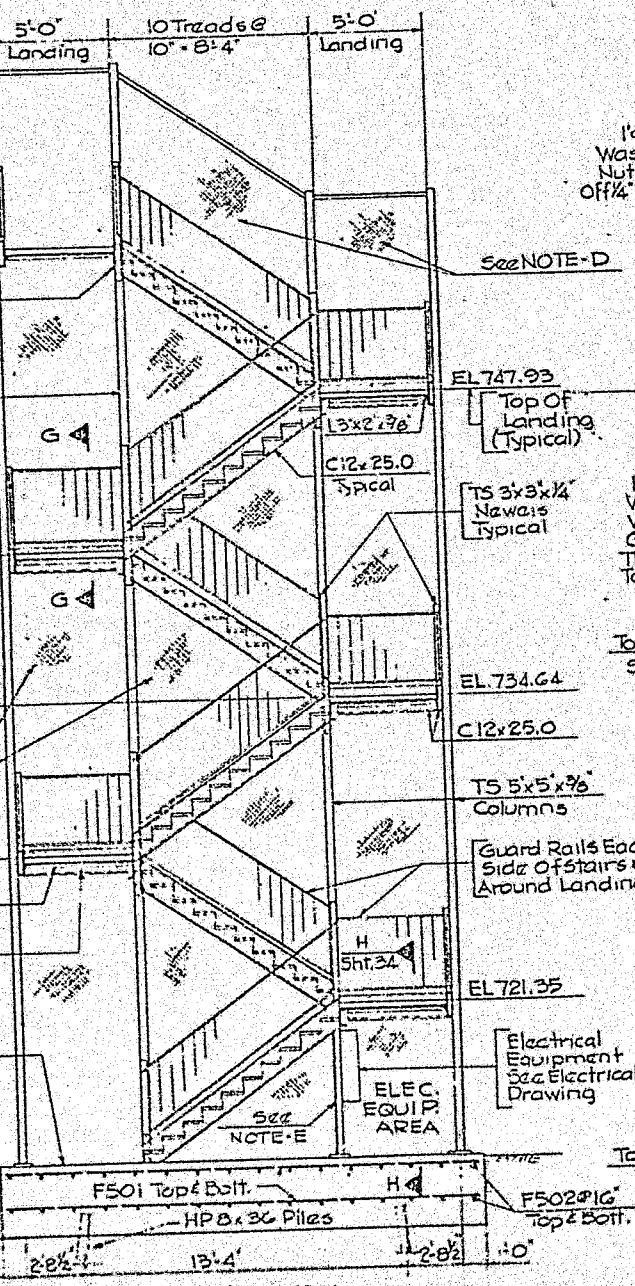
Notes:
Use ℄ Flex-ible Watertight Conduit Where Feasible

℄ Pedestrian Bridge
Sta 9+88.80 ℄ Constr
Glenfield Viaduct

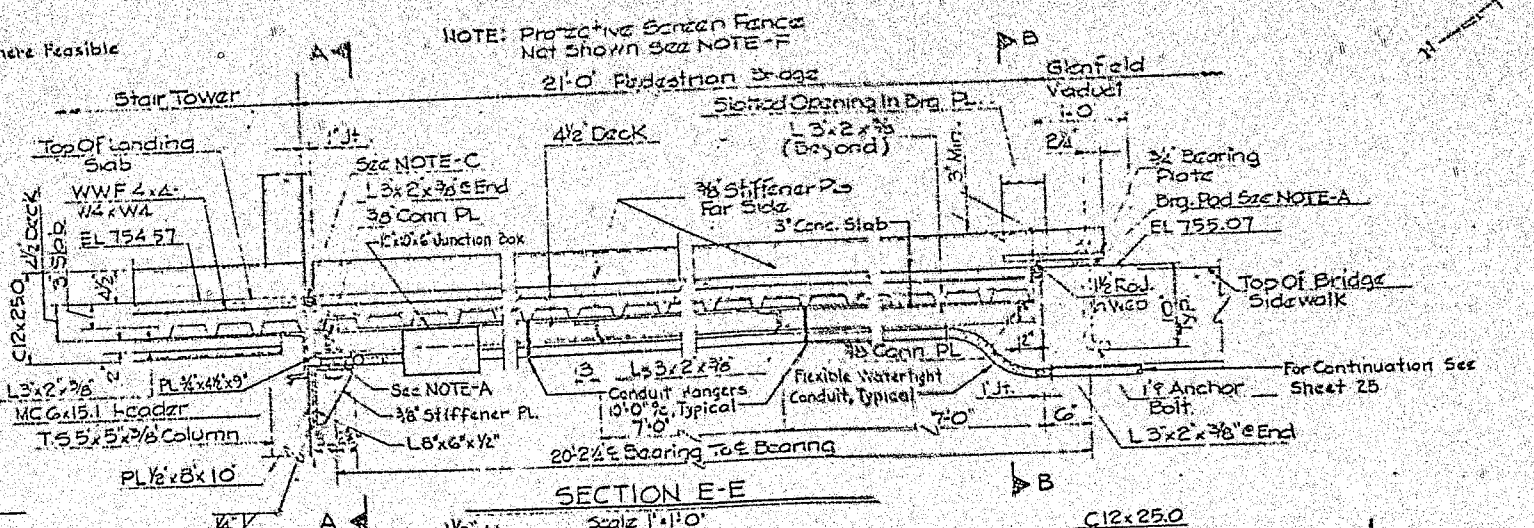
NOTE: Protective Screen Fence Not Shown See NOTE-F

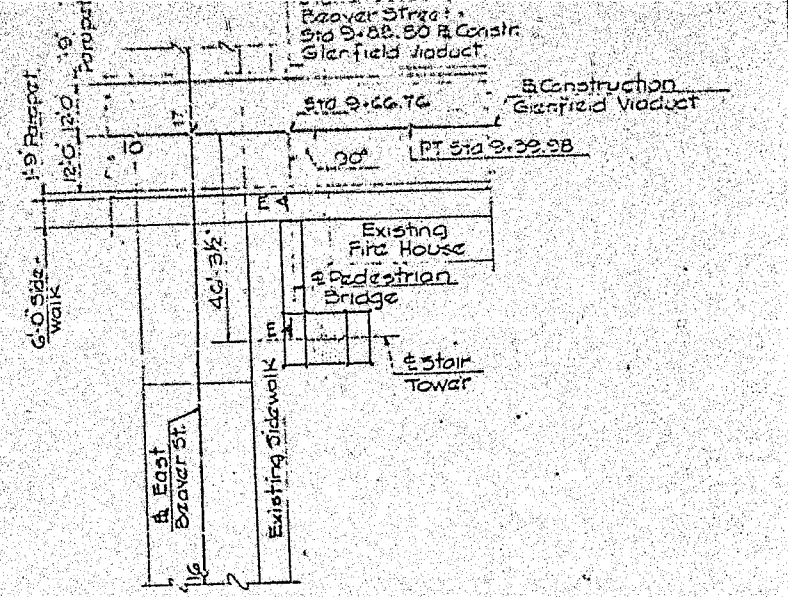


PLAN OF STAIR TOWER
Scale ¼"=1'-0"



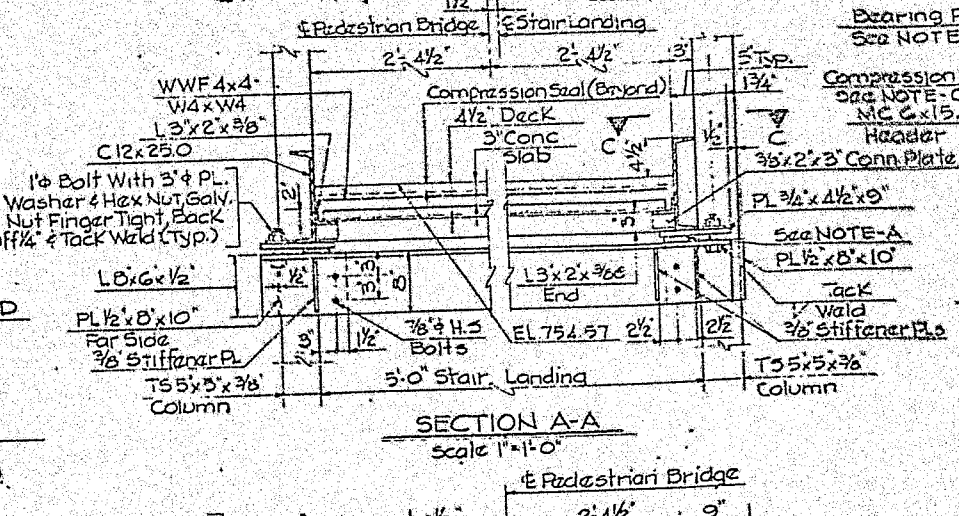
SECTION F-F
Scale ½"=1'-0"



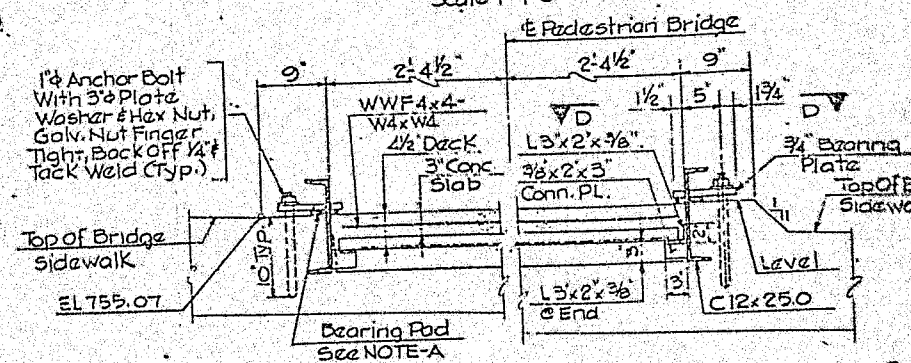


LOCATION PLAN
Scale 1"=20'

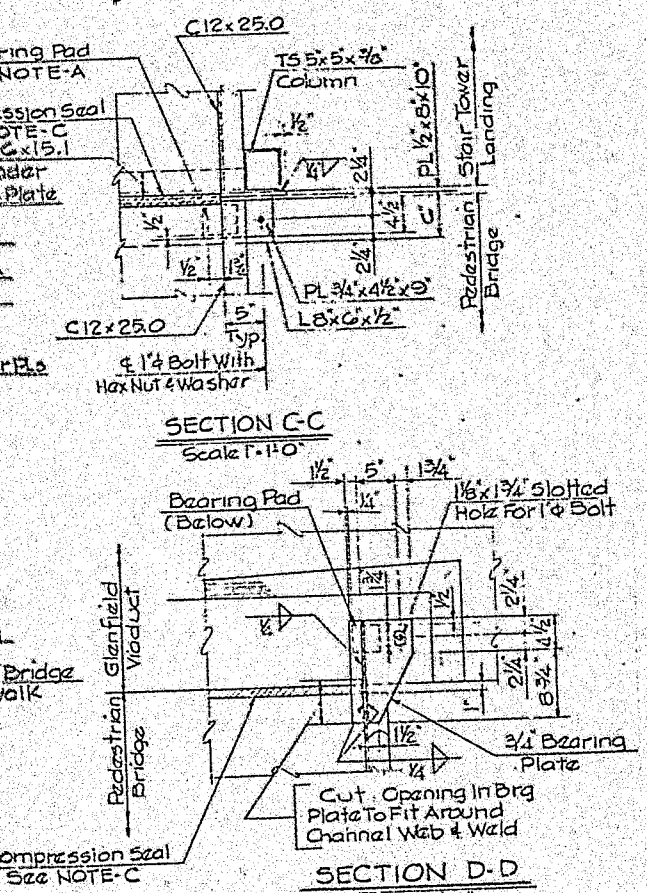
SECTION E-E
Scale 1"=1'-0"



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

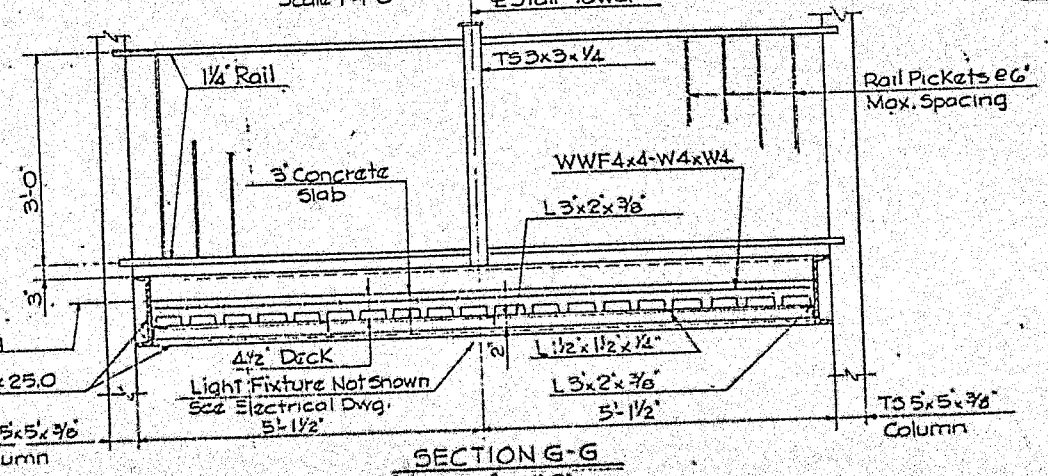


SECTION B-B
Scale 1"=1'-0"



SECTION C-C
Scale 1"=1'-0"

SECTION D-D
Scale 1"=1'-0"



SECTION G-G
Scale ¾"=1'-0"

NOTES

NOTE-A Stair Tower Designed For A Uniform Live Load Of 100 PSF Or A 300 Lb. Concentrated Load, Whichever Governs.

NOTE-B Provide 3½"x3½" Bearing Pad Composed Of Three ¼" Layers Of 60 Durometer Neoprene, Separated By And Bonded To 16 Gage Steel Shims. Bond Pad To Lower Bearing Surface.

NOTE-C Install Bolts With Uniform Clearance In Holes At 68°F

NOTE-D Provide Neoprene Compression Seals At Each End Of Pedestrian Bridge, Capable Of Accomodating A Total Movement Of One Half Inch.

NOTE-E Provide Protective Screen Around Stair Tower, Except At Exit And Entrance Ways.

NOTE-F Provide A Protective Screen Gate Or Door For Electrical Equipment Area.

NOTE-G Provide 8'-0" High Protective Fence For Pedestrian Bridge.

NOTE-H Provide Structural Steel Conforming To ASTM Designation A 36 Except Where Noted Otherwise In The Specifications.

NOTE-J Provide Class A Cement Concrete For All Concrete Work.

Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE

MISCELLANEOUS DETAILS

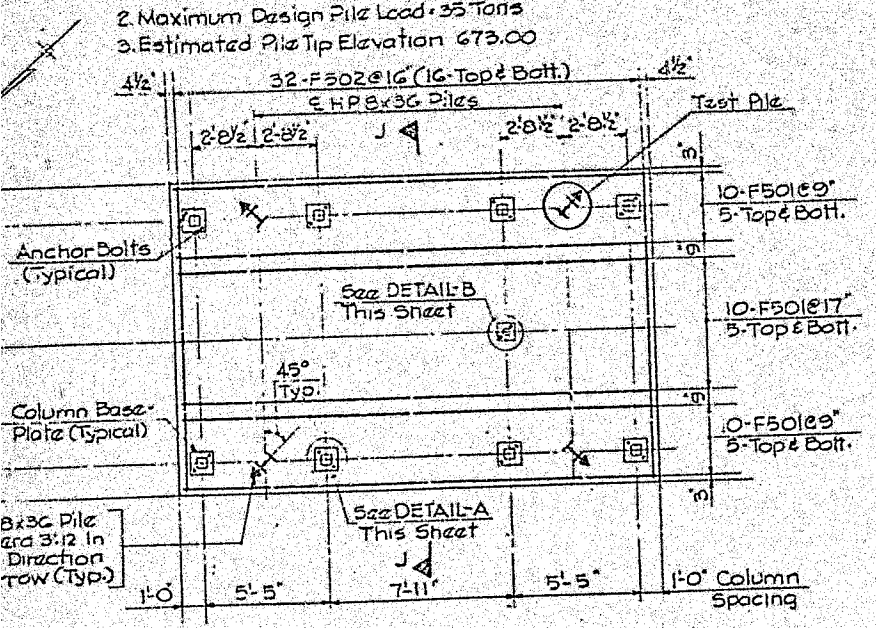
RECOMMENDED _____
BRIDGE ENGINEER

SHEET 33 OF 33
S-16201

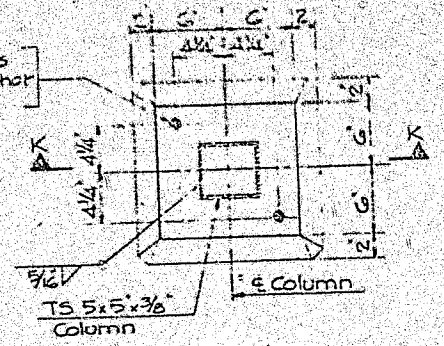
BAR SCHEDULE

SIZE	TYPE	NO.	LENGTH	REMARKS
#5	Str	30	29'-3"	
#5	Str	32	13'-2"	

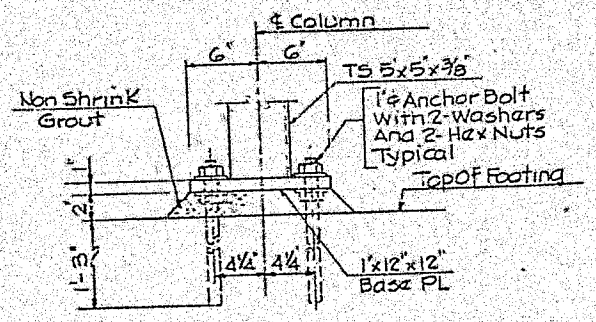
PILE NOTES:
1. Maximum Allowable Pile Load = 48 Tons
2. Maximum Design Pile Load = 35 Tons
3. Estimated Pile Tip Elevation 673.00



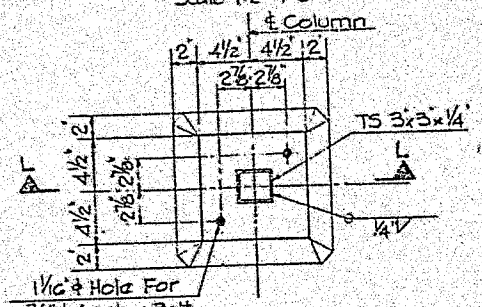
STAIR TOWER FOUNDATION PLAN
Scale ¼" = 1'-0"



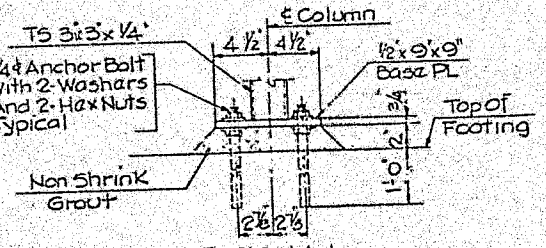
DETAIL - A
Scale 1½" = 1'-0"



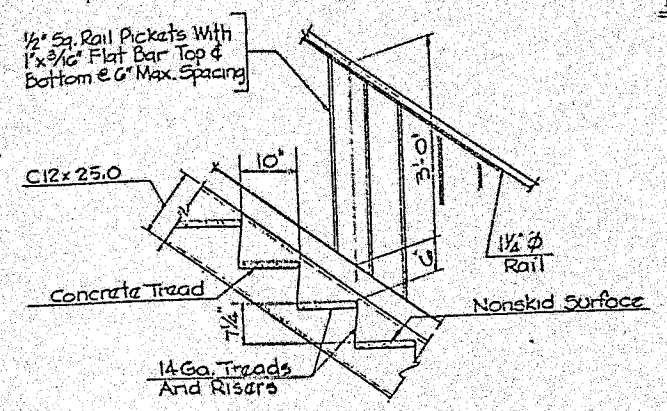
SECTION K-K
Scale 1½" = 1'-0"



DETAIL - B
Scale 1½" = 1'-0"

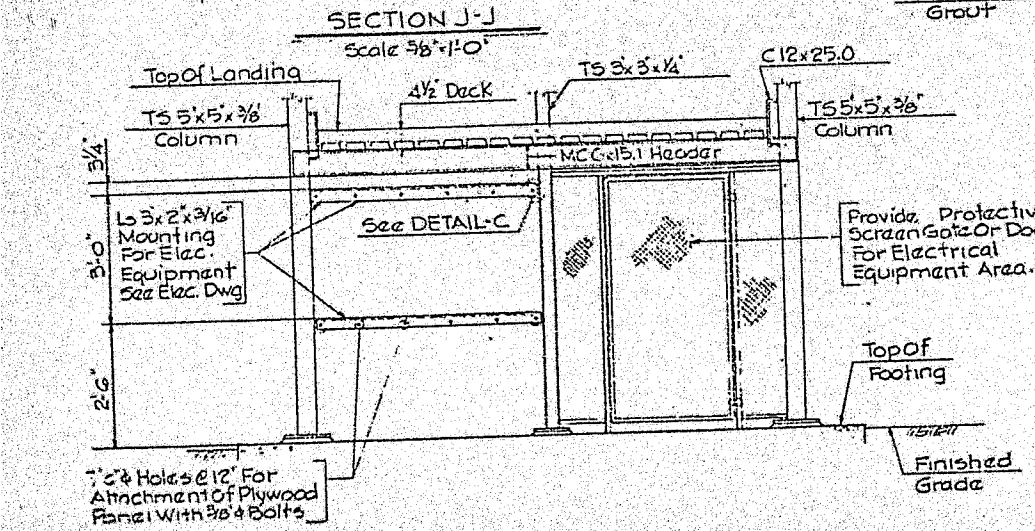


SECTION L-L
Scale 1½" = 1'-0"

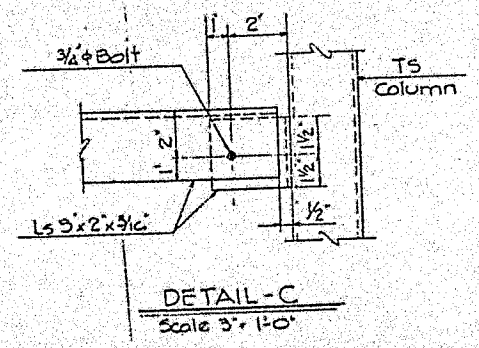


STAIR DETAIL
Scale ¾" = 1'-0"

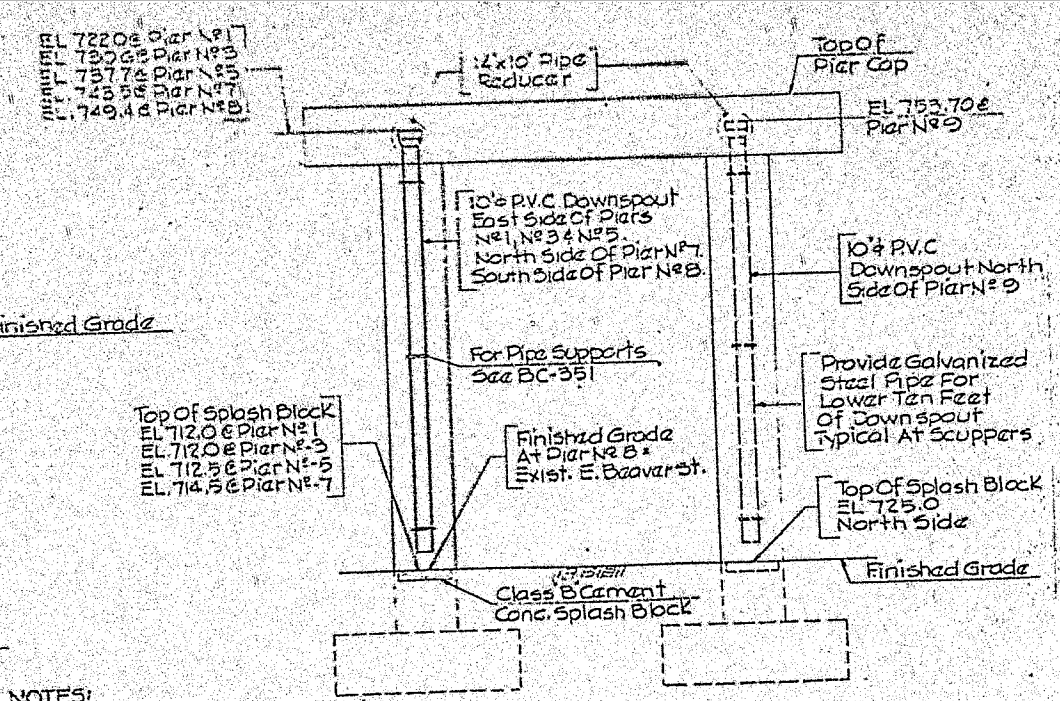
SECTION J-J
Scale ⅝" = 1'-0"



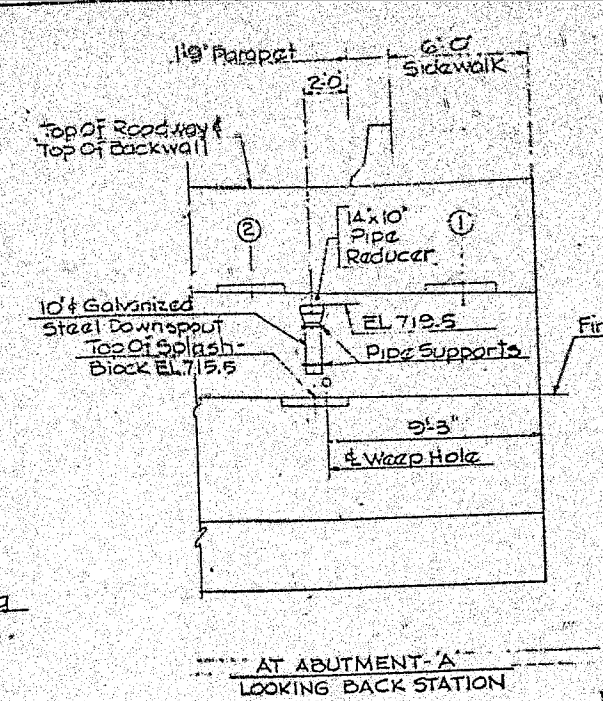
SECTION H-H
5x0 @ ½" = 1'-0"



DETAIL - C
Scale 3" = 1'-0"



AT PIERS
LOOKING AHEAD STATIONS



AT ABUTMENT - 'A'
LOOKING BACK STATION

NOTES:
For Scupper Locations See Sheet 1
For Scupper Details See Sheet 29

DRAINAGE DETAILS
Scale ¼" = 1'-0"

SUMMARY OF ELECTRICAL QUANTITIES

ITEM	UNIT	TOTAL
Steel Light Pole w 8'6" Bracket Arm (55½ sq. ft.)	Ea.	2
100 Watt H.P.S. Luminaire, Arm Mnt.	Ea.	2
AWG 6 Elect. Cable, Copper, 1 Conductor	L.F.	672
AWG 12 Elect. Cable, Copper, 1 Conductor	L.F.	480
¾" Exposed Conduit	L.F.	60
1" Exposed Conduit	L.F.	89
3/4" Watertight Flex. Galv. Steel Conduit	L.F.	100
Complete Power Supply System	L.S.	L.S.
Test Entire Light System & Connections	L.S.	L.S.
Junction Box	Ea.	8
70 Watt H.P.S. Luminaire, Overhead Mnt.	Ea.	5

STAIR TOWER - QUANTITIES

ITEM	UNIT	QUANTITY
Class 3 Excavation	C.Y.	40
Select Borrow Excavation, Structure Backfill	C.Y.	7
Class A Cement Concrete	C.Y.	37
Reinforcement Bars	Lb.	1,355
Deformed Welded Wire Fabric	Lb.	320
Steel Beam Test Pile	L.F.	39
Steel Beam Bearing Pile	L.F.	117
Steel Beam Pile Tip Reinforcement	Ea.	4
Fabricated Structural Steel	Lb.	19,500
Protective Fence	S.F.	3,106
Handrail	L.F.	215

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

Commonwealth of Pennsylvania
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BUREAU OF HIGHWAY DESIGN

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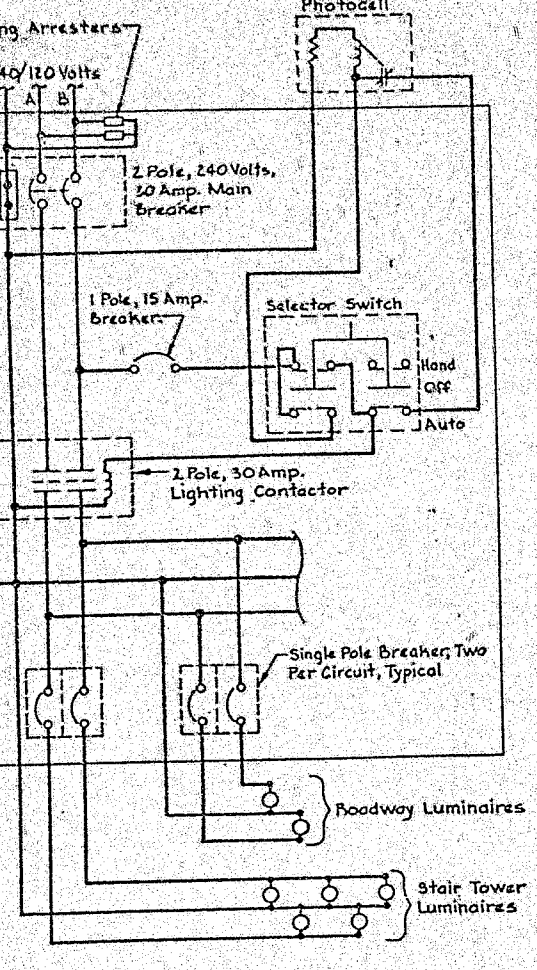
GLENFIELD VIADUCT
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
DRAINAGE & MISCELLANEOUS DETAILS

APPROVED _____
BRIDGE ENGINEER

SHEET 31 OF 39
S-16201

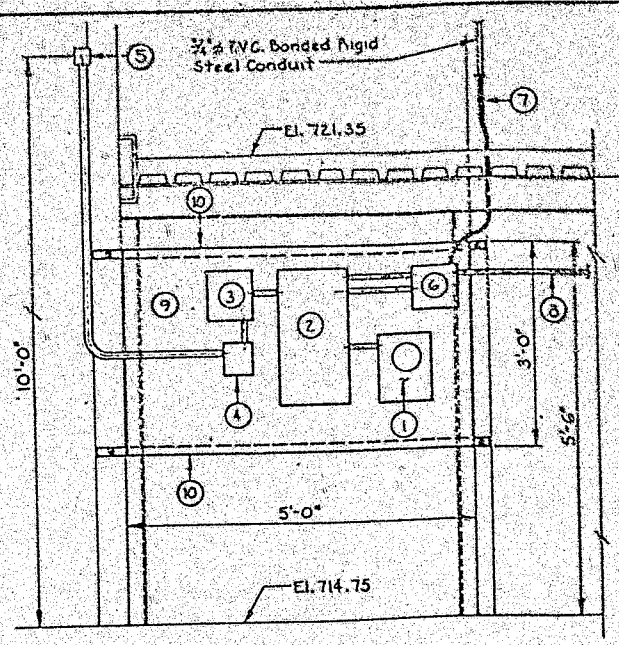


SINGLE LINE DIAGRAM

No Scale

CIRCUIT NUMBER	BREAKER TRIP RATING - AMPS	POLE NUMBER
Main	30	1,2
1	20	1
2	20	1
3	20	1
4	20	1
5	15	1

Note:
All Circuit Breakers Shall Be Rated For 10,000 A.I.C.



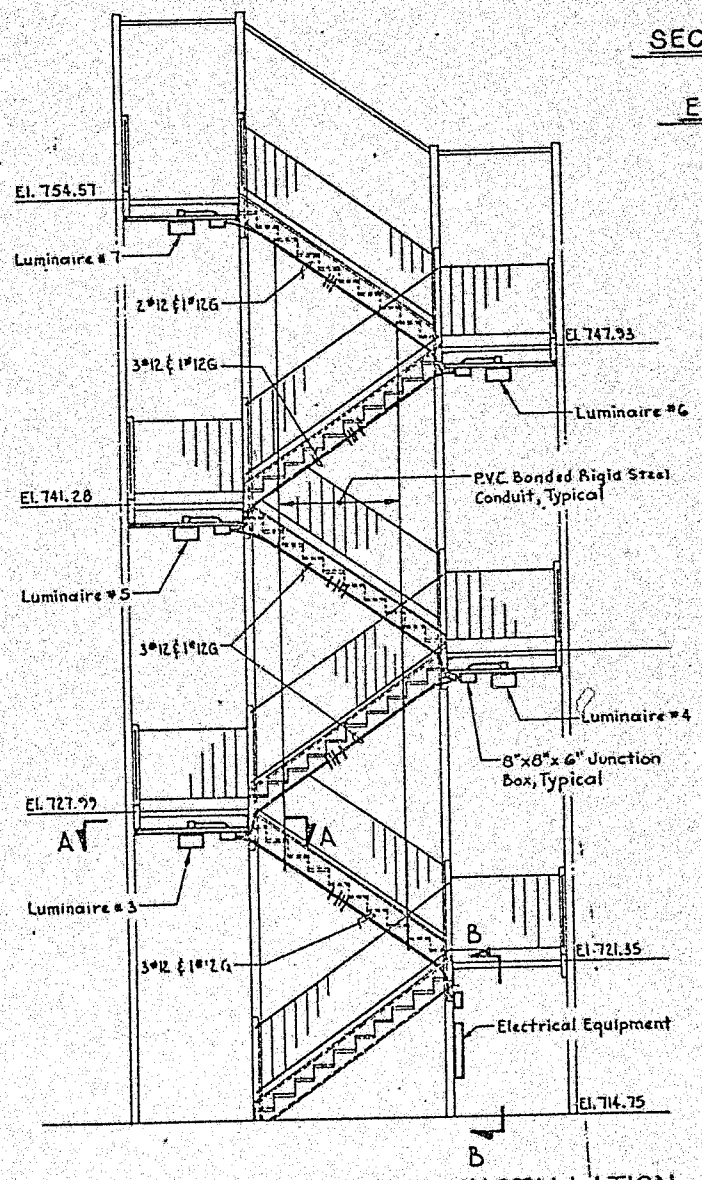
SECTION B-B

1. Utility Company KWH Meter.
2. 8 Circuit Load Center With Main Breaker.
3. 30 Amp., 2 Pole, Lighting Contactor.
4. Hand-Off-Automatic Selector Switch In A 8"x8"x6" Enclosure.
5. Photocell, Face In A Northerly Pirection.
6. 8"x8"x6" Junction Box.
7. 3/4"ø Flexible Watertight Conduit, Feeding Stair Tower Luminaires.
8. 1"ø PVC Bonded Rigid Steel Conduit Up To Roadway Luminaires.
9. 5'-0"x3'-0"x 3/4" Exterior Grade Plywood, Painted.
10. L 3"x2"x 5/16 See Structural Drawings for Details

Note:
All Electrical Equipment Enclosures Shall Be NEMA 3R.

ELECTRICAL EQUIPMENT LAYOUT

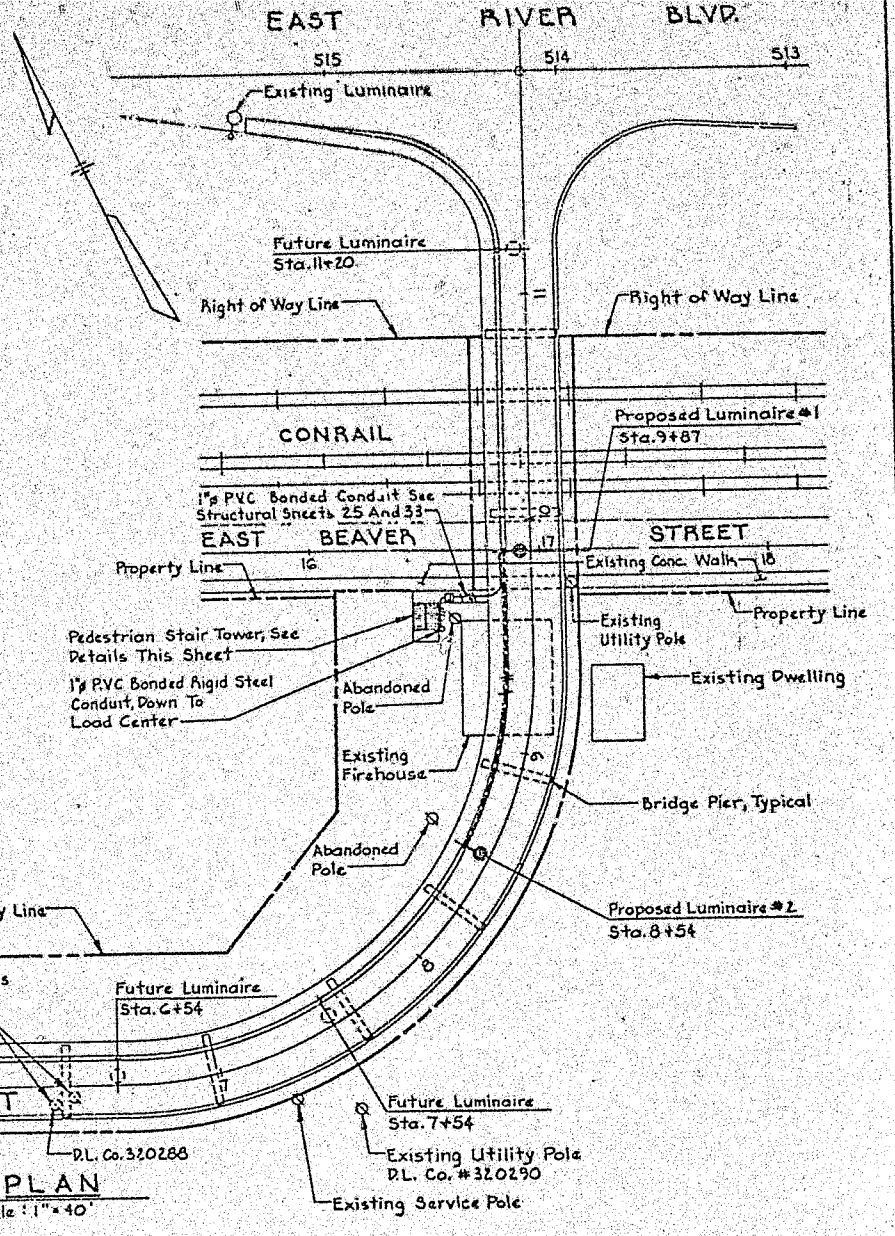
Scale: 3/4" = 1'-0"



STAIR TOWER LIGHTING INSTALLATION

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

Note:
All Conduit Shall Be Minimum 3/4" Unless Otherwise Noted

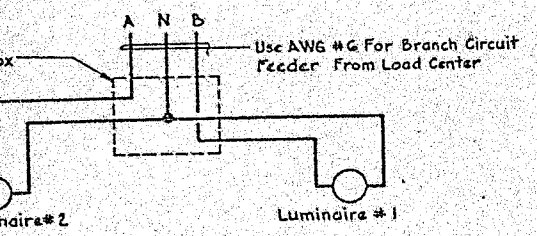


PLAN

Scale: 1" = 40'

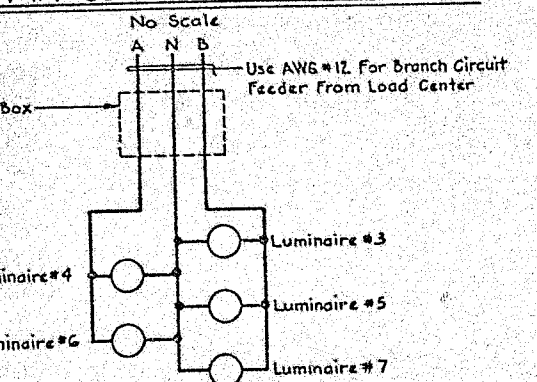
ELECTRICAL LEGEND

- Existing Luminaire
- Proposed Luminaire
- Future Luminaire
- Existing Utility Pole
- Junction Box



T #1 SCHEMATIC DIAGRAM

No Scale



T #2 SCHEMATIC DIAGRAM

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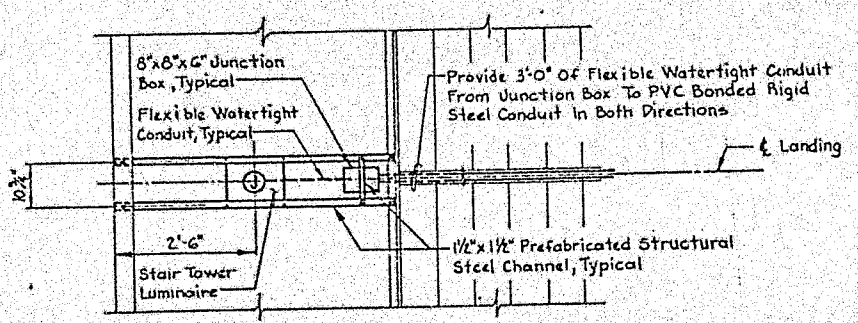


SECTION A-A

No Scale

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

Commonwealth of Pennsylvania

DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67

ELECTRICAL PLAN AND DETAILS

RECOMMENDED

BRIDGE ENGINEER

SHEET 35 OF 32

S-16201

COMMONWEALTH OF PENNSYLVANIA
PENNSYLVANIA PUBLIC UTILITY COMMISSION
P. O. BOX 3265, HARRISBURG, Pa. 17120

October 1, 1986

IN REPLY PLEASE
REFER TO OUR FILE

C-80092154

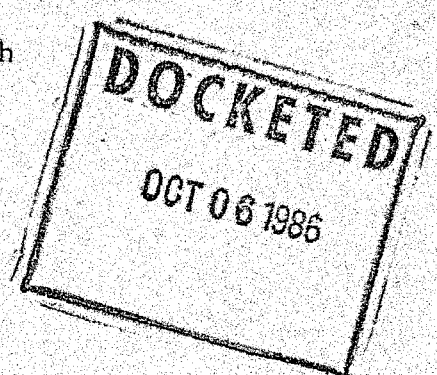
Michael A. Della Vecchia
Recorder of Deeds
Allegheny County
Pittsburgh, Penna. 15219

Dear Sir:

Receipt is acknowledged of the receipt for the Excerpt of the Commission Order dated April 24, 1986, issued in the above proceeding, with a notation thereon that it has been recorded in PNB 2894, in the Office of Recorder of Deeds of Allegheny County on September 18, 1986.

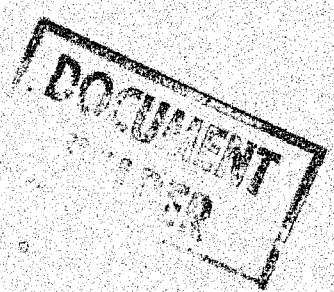
Very truly yours,

for Jerry Rich
Secretary



cc: Herbert G.Zahn, Assistant Attorney General
Pennsylvania Department of Transportation
522 Transportation & Safety Building
Harrisburg, Penna. 17120

JEP:rmb

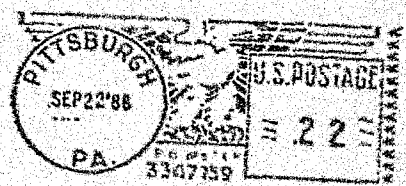


IRM No. 73

If not called for in five days return to

MICHAEL A. DELLA VECCHIA
RECORDER OF DEEDS
Allegheny County
Pittsburgh, PA 15219

Joanne Rossi
406



Pennsylvania Public Utility Commission
P.O. Box 3265
Harrisburg, PA 17120

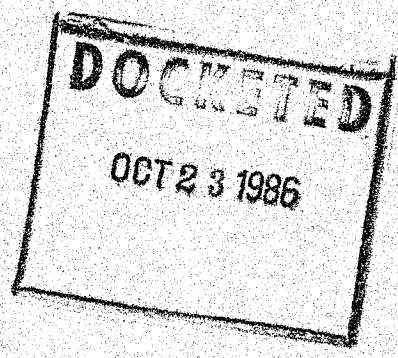
COMMONWEALTH OF PENNSYLVANIA
PENNSYLVANIA PUBLIC UTILITY COMMISSION
P. O. BOX 3265, HARRISBURG, Pa. 17120

October 22, 1986

IN REPLY PLEASE
REFER TO OUR FILE

C-80092154

Michael A. Della Vecchia
Recorder of Deeds
Allegheny County
Pittsburgh, Penna. 15219



Dear Sir:

Receipt is acknowledged of the certified copy of the excerpt of the Commission's Order of April 24, 1986, issued in the above proceeding, with a notation thereon that it has been recorded in Deed Book Vol. 7394, Page 270, in the Office of Recorder of Deeds of Allegheny County, on September 18, 1986.

Very truly yours,

for Jerry Rich
Secretary

cc: Herbert G. Zahn, Assistant Attorney General
Pennsylvania Department of Transportation
522 Transportation & Safety Building
Harrisburg, Penna. 17120

JEP:rmb

OCT 22 1986
SECRETARY'S OFFICE
Public Utility Commission

2. That, in accordance with provisions of Section 2702(b) of the Public Utility Code, 66 Pa. CSA §2702(b), the following described parcel of property be, and is hereby appropriated for the construction of the crossing in accordance with the plans approved by the Commission, and that this paragraph be recorded with the Recorder of Deeds of Allegheny County, indexed under the name or names of the record owners of the said property, grantor, and the Pennsylvania Department of Transportation, grantee, at the sole cost and expense of the Pennsylvania Department of Transportation.

Record Owner -- Consolidated Rail Corporation
c/o J. T. Sullivan, P.E.
Consolidated Rail Corporation
Room 1200
15 N. 32nd Street
Philadelphia, PA 19104

All that certain tract of land, together with all buildings, structures, or parts thereof, of any description or use whatsoever, erected or located thereon, situated in the Borough of Glenfield, Allegheny County, bounded and described as follows:

TRACT NO. 1

(REQUIRED RIGHT OF WAY FOR AERIAL EASEMENT)

Beginning at point on the southerly side of the Glenfield viaduct said point being at the intersection of the westerly required right-of-way line for aerial easement and the northerly legal right-of-way line for East Beaver Street distant twenty-five (25) feet northwesterly and measured at right angles from the survey and right-of-way base line of Glenfield Viaduct at or about Station 10+2 thereof; thence in a northeasterly direction along the said westerly required right-of-way line for aerial easement to a point and intersection with the southerly legal right-of-way line for limited access for Ramp B1 of Legislative Route 652 Eastbound distant twenty-five (25) feet northwesterly and measured at right angles from the survey and right-of-way base line of said viaduct at or about Station 10+80 thereof; thence in an easterly direction

along the said legal right-of-way line for said ramp to a point and intersection with the easterly required right-of-way line for aerial easement distant twenty (20) feet northeasterly and measured at right angles from the survey and right-of-way base line of said viaduct at or about Station 10+80 thereof; thence in a southwesterly direction along the said required right-of-way line for aerial easement to a point on the northeasterly legal right-of-way line for East Beaver Street distant twenty (20) feet northeasterly and measured at right angles from the survey and right-of-way base line of said viaduct at or about Station 10+02 thereof; thence in a westerly direction along the said legal right-of-way line for said street to the point and place of beginning and containing three thousand five hundred ten square feet of land more or less.

The above tract of land shown on the Borough of Glenfield's Drawings Authorizing Acquisition of Right of Way for Glenfield Viaduct, as recorded in the office of the recording of deeds, etc., in Allegheny County, Pennsylvania, in _____ on _____ _____, is a portion of real estate, which became legally vested in Consolidated Rail Corporation by deed of Pittsburgh, Ft. Wayne and Chicago Railways Company, dated March 21, 1976, and recorded _____ _____, in Deed Book Volume 6029, Page 21, in the Allegheny County Courthouse.

PENNSYLVANIA PUBLIC UTILITY COMMISSION

COMMONWEALTH OF PENNSYLVANIA, SS:

I, Joanne Rossi, Assistant Secretary of the Pennsylvania Public Utility Commission, do hereby certify that the attached is a full, true and correct copy of an excerpt of the Commission Order dated April 24, 1986, in the matter of Glenfield Borough versus Consolidated Rail Corporation, Allegheny County and Pennsylvania Department of Transportation (Docket No. C-80092154); as same remains of record and on file in this office.

IN TESTIMONY WHEREOF, I have hereunto set my hand and caused the seal of Pennsylvania Public Utility Commission to be affixed this EIGHTH day of MAY, 1986.

Assistant Secretary
PENNSYLVANIA PUBLIC UTILITY COMMISSION

VOL 7394 PAGE 273

SEP 18 86 110084

Glenfield

EXCERPT OF THE COMMISSION ORDER OF
APRIL 24, 1986

GLENFIELD BOROUGH
V
CONSOLIDATED RAIL CORP. GRANTOR
TO
PA DEPT OF TRANSPORTATION GRANTEE

MAIL TO: PENNDOT, TRANS, & SAFETY BLDG
HARRISBURG, PA 17120

(14) P.O. BOX 3265
ATTN: Jerry Rich

10 50 MID
PNB-2894

SEP 18 9 19 AM '86
RECORDER OF DEEDS
ALLEGHENY COUNTY, PA.

RECORDER OF DEEDS ★ ALLEGHENY COUNTY, PA ★

STATE OF PENNSYLVANIA) S.S.
COUNTY OF ALLEGHENY)

RECORDED IN THE OFFICE FOR THE RECORDING OF
DEEDS, ETC. IN AND FOR THE SAID COUNTY, ON THE 18th
DAY OF SEPT. A.D., 19 86 IN DEED
BOOK VOL. 7394 PAGE 270. WITNESS MY HAND AND
SEAL OF SAID OFFICE, THE DAY AND YEAR AFORESAID.

..... RECORDER

IMPORTANT NOTICE
From
MICHAEL A. DELLA VECCHIA, Recorder of Deeds

Enclosed is the mortgage which you recently recorded in our office. When this mortgage is paid off it must be satisfied of record. To do this, you must fill out a document called a "satisfaction piece" and present same along with the **original** mortgage to our office for recording. The satisfaction piece will be recorded and the original mortgage stamped "satisfied". If you do not have your original mortgage, a certified copy may be obtained from this office for $5 (four pages or less) and $1 for each additional page.

If the property taxes have been included in the mortgage payment, remember to have the name and address on the tax statement changed to the name and address where the property taxes are to be sent after the mortgage has been paid off.

No satisfaction piece will be accepted for recording without the original mortgage or certified copy accompanying it. Keep this mortgage with your important papers. REMEMBER, the mortgage is not removed as a lien of record until the satisfaction piece is recorded with this office.

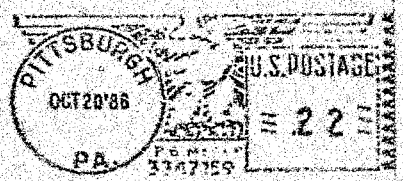
If you should have any questions, write or call Michael A. Della Vecchia, Recorder's Office, 101 County Office Bldg., Pittsburgh, PA 15219.

Office hours: 8:30 a.m. - 4:30 p.m. (412) 355-4226

Form No. 73

If not called for in five days return to

MICHAEL A. DELLA VECCHIA
RECORDER OF DEEDS
Allegheny County
Pittsburgh, PA 15219



PENNDOT TRAN & SAFETY BLDG
P.O. BOS 3265
HARRISBURG, PA 17120

ATTENTION: JERRY RICH

CONRAIL

RECEIVED
OCT 27 1986
SECRETARY'S OFFICE
Public Utility Commission

October 23, 1986

Mr. W. J. Clements, P.E.
Chief, Right of Way and Utility Division
Pennsylvania Department of Transportation
509 T & S Building
Harrisburg, PA 17120

SUBJECT: Glenfield, Allegheny County, PA - PUC Docket No. C-80092154 - Glenfield Viaduct - AAR# 507 461 N Central Region, Pittsburgh Division, Fort Wayne Line, Br. 9.22, LC 22-2202, WO# 46588 (File: Br. 9.22-WRA) (Glenfield)

Dear Mr. Clements:

Reference is made to Mr. Moyer's letter of September 22, 1986 transmitting detail construction plans for replacement of subject structure.

We have reviewed the plans and have the following comments:

1. The proposed structure is satisfactory from a structural standpoint.

2. Disposition of the scupper discharge should be addressed (see sheet 1 of 39, sta. 10 + 75.0). We would prefer that no drainage from the bridge structure be discharged on Conrail property; however, if this is not feasible, the discharge must be conveyed by means of a pipe to existing drainage structures.

3. As presently designed, the temporary sheeting of Pier 8 will be only about 5' from centerline of track and approximately 15 feet deep. Details of sheeting and of supports and replacements for existing crib wall (see sheet 2 of 39) should be submitted for approval by this office before commencement of work.

The plans are otherwise satisfactory.

If there are any questions, please contact W. R. Addison of this office.

DOCKETED
OCT 27 1986

DOCUMENT FOLDER

Very truly yours,

J. T. Sullivan

J. T. Sullivan, P.E.
Chief Engineer
Design and Construction

Room 1200

(215) 596-3848

cc: Mr. Jerry Rich, Secretary
Pennsylvania PUC
P O Box 3265
Harrisburg, PA 17120

Mr. Roger E. Carrier, P.E.
District Engineer
PADOT
District #11 Office
4 Parkway Center
875 Greentree Road
Pittsburgh, PA 15220

PUC - 77

PENNSYLVANIA PUBLIC UTILITY COMMISSION
Uniform Cover and Calendar Sheet

1. REPORT DATE: February 9, 1987	2. BUREAU AGENDA NO. MAR-87-SC-RS-96
3. BUREAU: Safety and Compliance	
4. SECTION(S): Rail Safety	5. PUBLIC MEETING DATE: March 5, 1987
6. APPROVED BY: Director: Nicely 3-3846 Supervisor: Lehman 7-9732	
7. MONITOR:	
8. PERSON IN CHARGE: Fleisher 7-5936	
9. DOCKET NO: C-80092154	

10. (a) CAPTION (abbreviate if more than 4 lines)
(b) Short summary of history & facts, documents & briefs
(c) Recommendation

(a) Glenfield Borough
v.
Consolidated Rail Corporation, et al.

(b) Complaint filed September 9, 1980. Initial hearing held January 28, 1981. Initial order adopted May 29, 1981. Second hearing held August 24, 1982. Second order adopted December 3, 1982, directed Department to prepare plans to either rehabilitate or replace the structure. Department submitted plans for replacement structure on October 1, 1985. Hearing held November 27, 1985. Order adopted April 24, 1986, directed Pennsylvania Department of Transportation to prepare and submit detailed construction plans for replacement of the Glenfield Viaduct. Department submitted completed plans February 6, 1987.

(c) The Bureau of Safety and Compliance recommends that the Commission approve the plans submitted by the Department on February 6, 1987, identified as (1) Drawings for Construction of Glenfield Viaduct in Allegheny County, composed of sheets 1, 2, 3, 4, 5, 9, and 10 of 10, (2) Drawings for Traffic Control Plan, composed of four (4) sheets, and (3) Structure Plan, S-16201, Glenfield Viaduct, Station 9+88.80 over East Beaver Street, Station 16+96.67, 10 Span I-beam and Multi-Girder Bridge, composed of sheets 1 thru 35 of 39.

(Continued)

11. MOTION BY: Commissioner Shane — Commissioner Chm. Taliaferro - Yes
SECONDED: Commissioner Fischl — Commissioner
Commissioner

CONTENT OF MOTION: Staff recommendation adopted.

DOCUMENT FOLDER

DOCKETED
MAR 12 1987

After approval, the Secretary should be directed to notify all parties of this action. The plans which have been certified as the correct plan, should have the Commission's seal affixed thereto and said plans should be placed in the document folder.

COMMONWEALTH OF PENNSYLVANIA
PENNSYLVANIA PUBLIC UTILITY COMMISSION
P. O. BOX 3265, HARRISBURG, Pa. 17120

March 13, 1987

IN REPLY PLEASE
REFER TO OUR FILE
C-80092154

William J. Clements, P.E.
Pennsylvania Department of Transp.
Room 509, Transp. & Safety Bldg.
Harrisburg, PA 17120

Glenfield Borough
v.
Consolidated Rail Corporation, et al.

Dear Mr. Feczko:

At the Public Meeting held March 5, 1987, the Commission approved the plans submitted by the Department on February 6, 1987, identified as (1) Drawings for Construction of Glenfield Viaduct in Allegheny County, composed of sheets 1, 2, 3, 4, 5, 9, and 10 of 10, (2) Drawings for Traffic Control Plan, composed of four (4) sheets, and (3) Structure Plan, S-16201, Glenfield Viaduct, Station 9+88.80 over East Beaver Street, Station 16+96.67, 10 Span I-beam and Multi-Girder Bridge, composed of sheets 1 thru 35 of 39.

Very truly yours,

Jerry Rich
Secretary

DOCUMENT FOLDER

DOCKETED
MAR 1 ? 1987

Certified Mail

cc: All other parties of record
Elaine Deichmiller
Bureau of Safety & Compliance - Rail Division
Law Bureau

JEP:bjc

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NUMBER 117-4002-348

FCB	DISTRICT	COUNTY	TOWNSHIP	BOROUGH	ROUTE	TOTAL SHEETS
	11-0	ALLEGHENY		GLENFIELD	GLENFIELD VIADUCT	10

STATE PROJECT NUMBER

SYS	L.R. or W.O.	SPUR	PHA	SECTION	DIST.	CO.
B	G L 6 5 2	0	7	0 4	1 1	1 1

ALSO INCLUDED:

CROSS SECTIONS (UPON REQUEST)	12 SHEETS
TRAFFIC CONTROL PLAN	4 SHEETS
STRUCTURE PLANS # S-16201	39 SHEETS

DRAWINGS
FOR
CONSTRUCTION
OF

GLENFIELD VIADUCT

IN ALLEGHENY COUNTY

From Sta. 0+10.67 To Sta. 11+99.01 Length 1188.14 Ft. 0.225 Mi.

P.U.C. Complaint Docket Number 80092154

DOCKETED
MAR 17 1987

DOCUMENT FOLDER

SCALE
0 50' 100'
0 10' 20'

SIGN DESIGNATION

TRAFFIC DATA

TION – LOCAL ROAD
– 25 MPH
– 2'-12' LANES
– NONE
IMUM –
MUM – NONE

CURRENT A.D.T. – 700 (1985)
DESIGN YEAR A.D.T. – 980 (2005)
D.H.V. – 98
D – 50%
T – 2%

PLANS PREPARED BY
RUMMEL, KLEPPER & KAHL
CONSULTING ENGINEERS
NEW CUMBERLAND, PENNSYLVANIA

Project Manager
Reg. Prof. Engineer

CERTIFIED CONSTRUCTION PLANS

Approved by
PENNA. PUBLIC UTILITY COMMISSION

Attest:

Secretary

MAR 5 1987

GLENFIELD BOROUGH

APPROVED December 11 1986
MAYOR

APPROVED December 10 1986
PRESIDENT - BOROUGH COUNCIL

APPROVED December 10 1986
SECRETARY - BOROUGH COUNCIL

RECOMMENDED Jan 14 1987
DISTRICT ENGINEER

RECOMMENDED March 16 1987
DEPUTY SECRETARY

APPROVED 2 Dec 1987
SECRETARY OF TRANSPORTATION
(On behalf of the Governor as well as

DISTRICT	COUNTY	ROUTE	SHEET
11-0	ALLEGHENY	GLENFIELD VIADUCT	2 OF 10
	GLENFIELD BOROUGH		

REVISION NUMBER	REVISIONS	DATE	BY

INDEX

DESCRIPTION	SHEET
TITLE SHEET	1
INDEX MAP	2
LOCATION MAP & TYPICAL SECTIONS	3
SPECIAL DETAILS	4
SUMMARY SHEETS	5
TABULATION SHEETS	6-8
DETAIL PLAN SHEETS	9-10
SUPPLEMENTARY PLANS	
TRAFFIC CONTROL PLAN	1-4
STRUCTURE PLANS S-16201	1-39
CROSS SECTIONS (UPON REQUEST)	1-12

TABULATION OF PROPERTY OWNERS

MES B. SAVAGE

HN J. HALLSTEIN & OEDNA M. SHIPPER

WARD WOODS & CAROLINE E. WOODS H/W

RIL E. YARAS & DEBORAH L. YARAS H/W

OMAS STEEDLE

EPH W. DEWITT & HILDA M. DEWITT H/W

LLEY VETERANS ASSOCIATION

OMAS MICHAEL GILMORE & PATRICIA JO GILMORE H/W

NCIS REICH & JOANNE REICH H/W

ES R. TUNNEY & MARY BERTHA TUNNEY H/W

ER J. CERNANSKY & GAIL E. CERNANSKY H/W

N A. O'NEIL & JOSEPHINE T. O'NEIL H/W

LIAM AUGUSTINE & VERNA AUGUSTINE H/W

NFIELD VOLUNTEER FIRE CO., INC.

RLES B. HAUSER & MARY RUTH HAUSER H/W

OUGH OF GLENFIELD, QUAKER VALLEY SCHOOL DISTRICT, COUNTY OF ALLEGHENY

RY W. PFLUGH & ELIZABETH H. CARPT

PH G. FITCH & ELIZABETH FITCH H/W

DERICK BARONI & RUTH BARONI H/W

ORAH L. FITCH

NTY OF ALLEGHENY

N BROS., INC.

DORE F. BECKERT

EINMAN, A. KRUGH, JOSEPH WATERS; F.H. ANDERSON, SHOLES, & J.P. TAYLOR

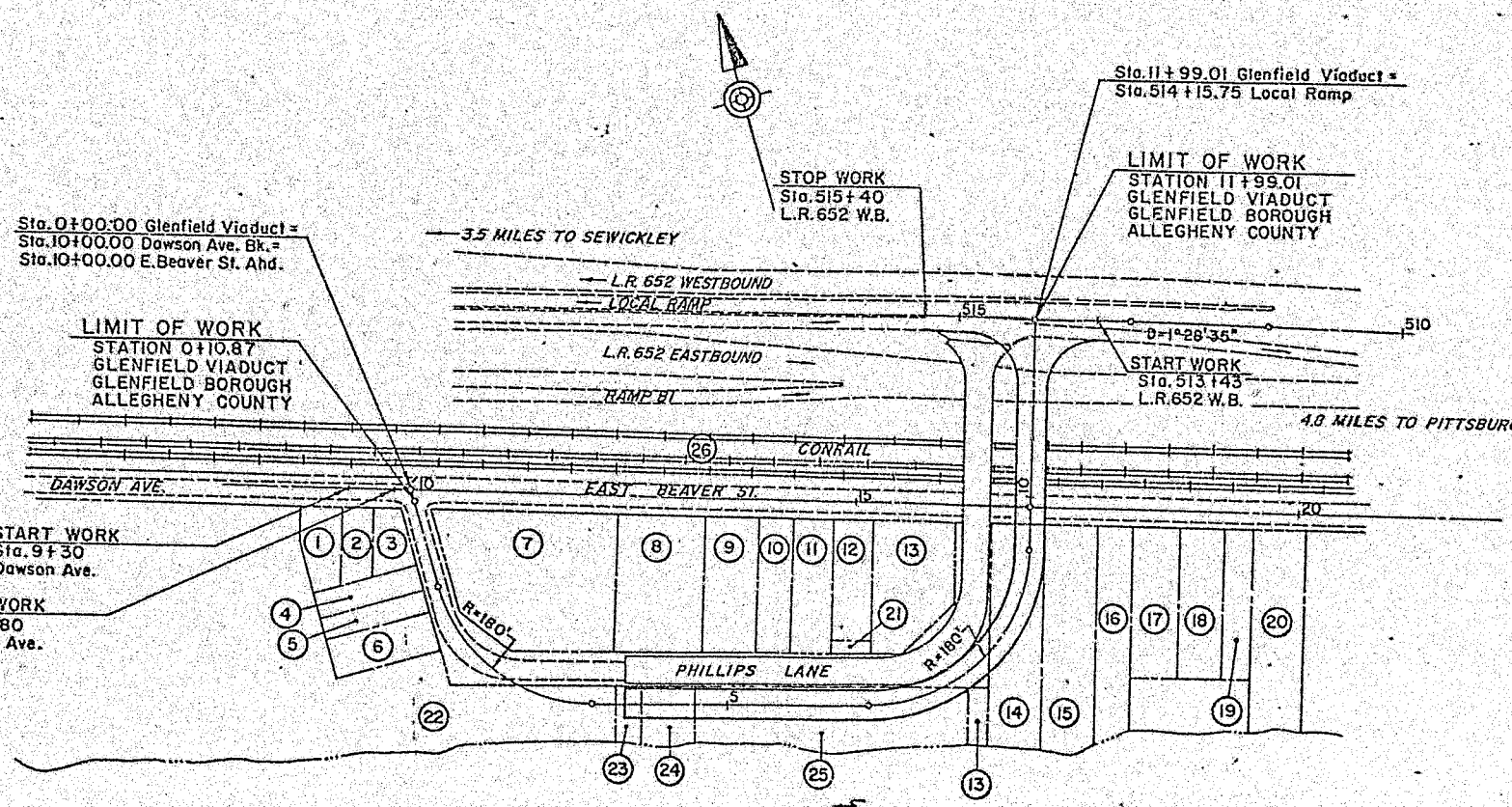
N BROS., INC.

RAIL

PENNSYLVANIA

4 DISTRICT
● DISTRICT OFFICE

PROJECT LOCATION



Approved by
PENNA. PUBLIC UTILITY COMMISSION
Attest:
Secretary

MAR 5 1982

LEGEND

PLAN

PROFILE

PROPERTY IDENTIFICATION NUMBER

DISTRICT	COUNTY	ROUTE	SHEET
11-0	ALLEGHENY	GLENFIELD VIADUCT	3 OF 10
	GLENFIELD BOROUGH		

REVISION NUMBER	REVISIONS	DATE	BY

C UTILITIES

F PENNSYLVANIA
NWIX STREET
RGH, PA 15222
R. R. HILLIARD
412) 633-3131

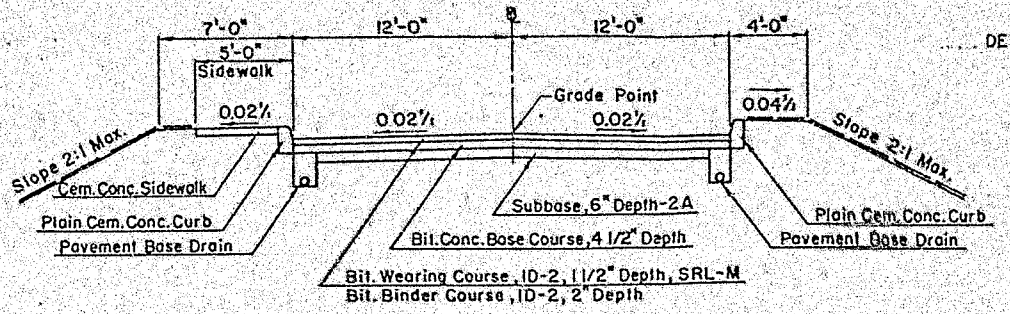
A GAS OF PENNSYLVANIA, INC.
WHEELING STREET
Z
TON, PA 15301-0610
HN R. WEBER, P.E.
412) 746-2600

E LIGHT COMPANY
CENTER
NT STREET
RGH, PA 15279
AYMOND J. WIEHAGEN
412) 393-6000

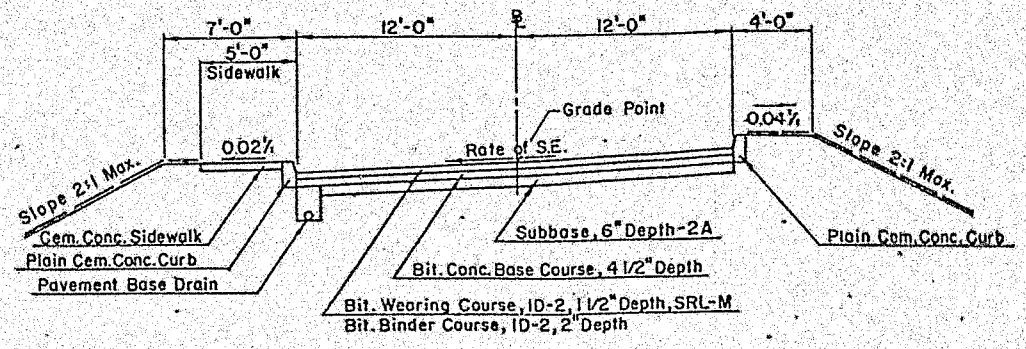
H OF GLENFIELD (WATER LINE)
ER ROAD
LEY, PA 15143
NN KIPILO
12) 741-8566

DATED RAIL CORPORATION - CONRAIL
D STREET
LPHIA, PA 19104
. T. SULLIVAN
(215) 596-3848

VIDEO (CABLE TV)
O RIVER BLVD.
GE, PA 15001
RALPH YAGULLI
(412) 922-5522



TANGENT SECTION



SUPERELEVATED SECTION

TYPICAL SECTIONS - ROADWAY

DETAILS, OTHER THAN THOSE INDICATED, ARE ON THE FOLLOWING STANDARD DRAWINGS:

RC-10	5-2-83	BC-301A	3-2-81
RC-11	5-2-83	BC-317A	3-2-81
RC-12	5-2-83	BC-321A	6-20-80
RC-13	5-2-83	BC-322A	6-20-80
RC-23	5-2-83	BC-331A	11-4-81
RC-28	5-2-83	BC-332B	6-21-82
RC-30	5-2-83	BC-334A	3-2-81
RC-33	5-2-83	BC-335A	11-4-81
RC-34	6-16-84	BC-336A	11-4-81
RC-64	6-16-84	BC-337A	3-2-81
RC-65	6-16-84	BC-351	7-1-70
RC-67	10-12-84	BC-352	4-1-71
RC-70	5-2-83	BC-353	4-1-71
RC-80	5-2-83	BC-354	7-1-70
RC-81	6-16-84	BC-355A	11-10-80
RC-83	9-26-84	BC-356A	11-10-80
		BC-363	10-20-70

LEGEND

Seeded Area, see General Notes

GENERAL NOTES

THE LEGAL RIGHT-OF-WAY ON GLENFIELD VIADUCT IS VARIABLE BASED ON THE RIGHT-OF-WAY PLAN OF GLENFIELD VIADUCT, APPROVED BY GOVERNOR DICK THORNBURGH ON , AND RECORDED IN THE ALLEGHENY COUNTY RECORDER OF DEEDS OFFICE.

THE DEPARTMENT RESERVES THE RIGHT TO ELIMINATE ANY OR ALL OF THIS WORK. DO NOT PERFORM WORK EXCEPT THAT WHICH IS WITHIN THE HIGHWAY RIGHT-OF-WAY UNTIL SO ORDERED IN WRITING BY THE ENGINEER.

CONSTRUCT PROJECT IN ACCORDANCE WITH SPECIFICATIONS, PUBLICATION 408, DATED 1983.

DO NOT INTERFERE WITH THE OPERATION OF ANY FIRE HYDRANT, FIRE CALL BOX OR POLICE CALL BOX.

THIS IS A FEDERAL-AID PROJECT AND AS SUCH IS SUBJECT TO INSPECTION BY REPRESENTATIVES OF THE FEDERAL HIGHWAY ADMINISTRATION AND THE BOROUGH OF GLENFIELD.

TEMPORARY AREA (S) REQUIRED UNTIL THE CONSTRUCTION OR WORK INDICATED IS COMPLETED, UNLESS SOONER REVERTED IN WRITING BY THE DEPARTMENT.

SURVEY IS BASED ON U.S.C.& G.S. DATUM.

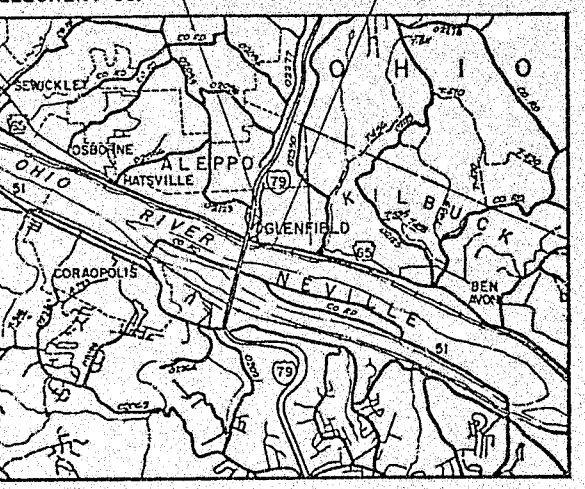
HORIZONTAL CONTROL IS TIED TO L.R.652.

ALL CURVE DATA IS BASED ON THE ARC DEFINITION UNLESS OTHERWISE INDICATED.

SLOPES 3:1 OR STEEPER TO BE SEEDED WITH FORMULA C SEED MIXTURE; SLOPES FLATTER THAN 3:1 TO BE SEEDED WITH FORMULA D MIXTURE.

LIMIT OF WORK
STA. 0+10.87
GLENFIELD VIADUCT
GLENFIELD BORO
ALLEGHENY CO.

LIMIT OF WORK
STA. 11+99.01
GLENFIELD VIADUCT
GLENFIELD BORO
ALLEGHENY CO.



LOCATION MAP

1 0 1 2 3 MILES

LEGEND

STATE HIGHWAYS

TOWNSHIP ROADS

NO DETOUR

TABULATION OF OVERALL & CONSTRUCTION LENGTH

Sta. 0+10.87 to Sta. 11+99.01 Length 1188.14 Ft. 0.225 Miles

LIST OF EQUALITIES

NONE

LEGEND - EROSION CONTROL DEVICES

—SF—SF— SILT BARRIER FENCE

ROCK LINING

Approved by
P. ... A. ...
Attest:

Secretary

MAR 5 1987

EARTHWORK SUMMARY - ENTIRE PROJECT

THE FOLLOWING INFORMATION ON THE ESTIMATED AMOUNTS OF EARTHWORK HAS BEEN USED BY THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION IN ITS PRELIMINARY ESTIMATE FOR THIS PROJECT AND SHALL NOT BE TAKEN OR USED AS A WAIVER OF ANY PROVISIONS OF SPECIFICATIONS AND CONTRACTS.
QUANTITIES SHOWN ARE APPROXIMATE.

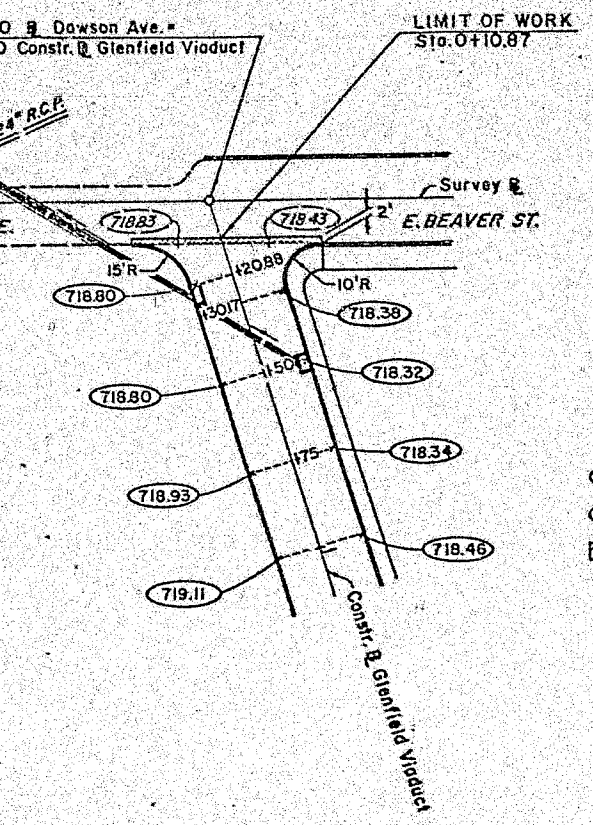
CU. YDS. OF EXCAVATION					CUBIC YDS. OF COMPLETED EMBANKMENT *	CUBIC YDS. OF SELECT BORROW EXC. STR. BKFILL	
CLASS 1	CLASS 1B	CLASS 2	CLASS 3	CLASS 4			
492	87	66	2404 **	108	844	1840 **	

* Includes all borrow items
** Included in L.S. structure items

TRACED BY
FINAL BY

DISTRICT	COUNTY	ROUTE	SHEET
11-0	ALLEGHENY	GLENFIELD VIADUCT	4 OF 10

REVISION NUMBER	REVISIONS	DATE	BY

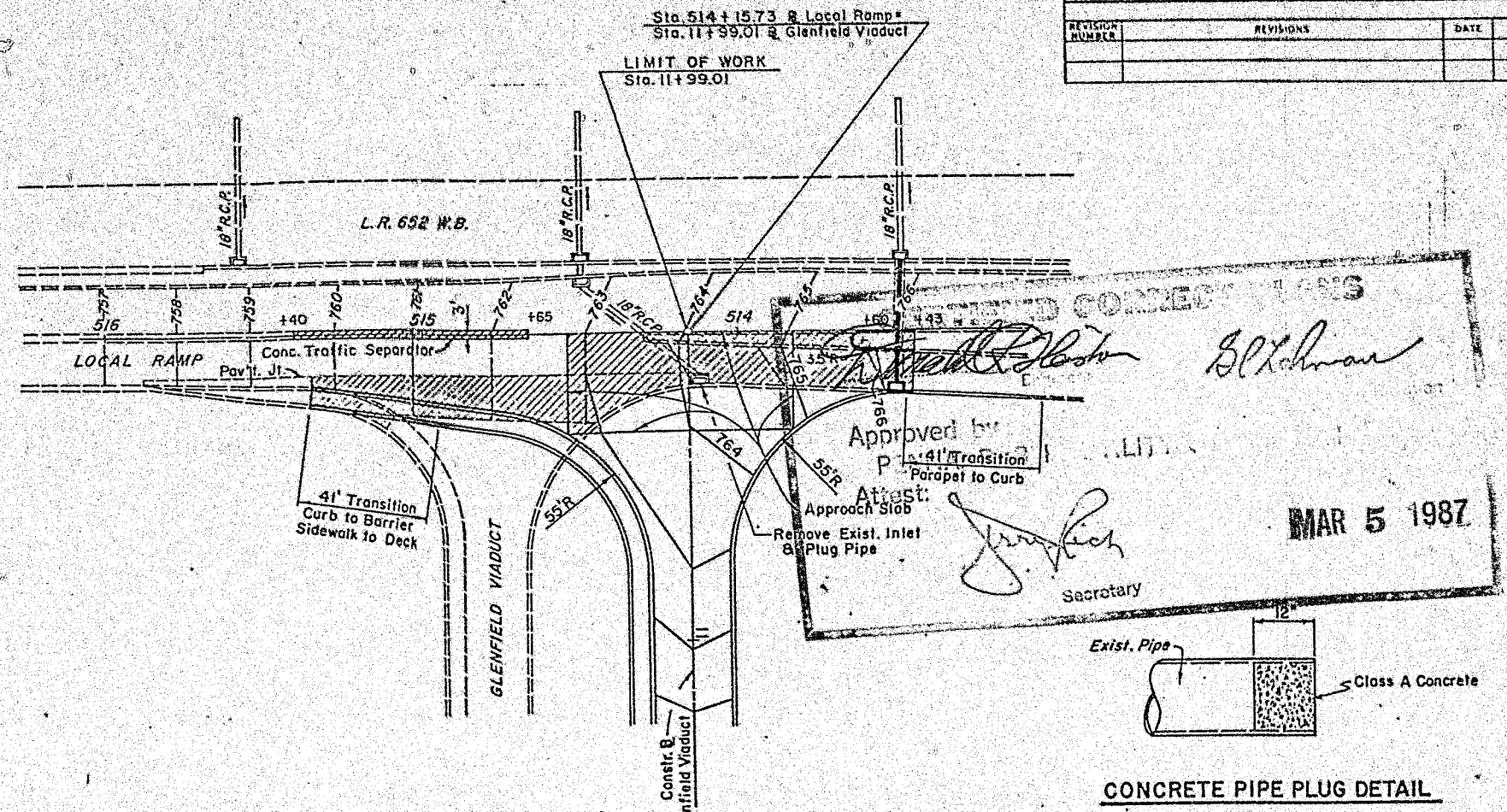


LEGEND

(100.00) Proposed Grade Elevation

(100.00) Existing Pav't. Elevation

Pavement Removal



Approved by

Attest:

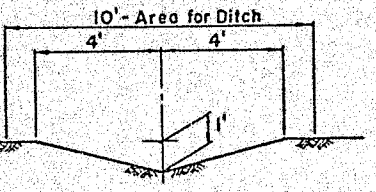
Secretary

MAR 5 1987

CONCRETE PIPE PLUG DETAIL

ELD VIADUCT INTERSECTION WITH DAWSON AVE.

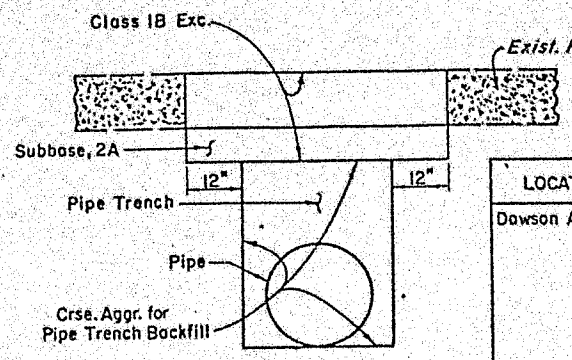
SCALE: 1"=25'



OUTLET DITCH FOR STRUCTURE DRAINAGE
CLASS 2 EXC.

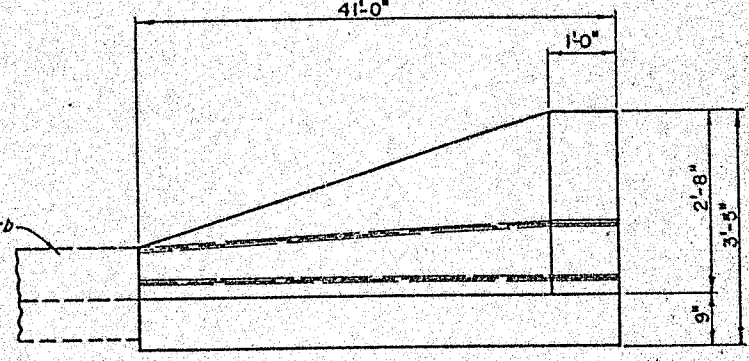
GLENFIELD VIADUCT INTERSECTION WITH L.R. 652 LOCAL RAMP

SCALE: 1"=25'

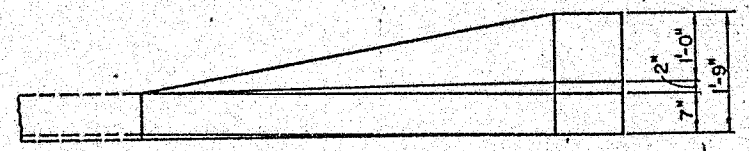


LOCATION	PAVEMENT	SUBBASE, 2A
Dawson Ave.	Bit. Wearing Crse., 1 1/2" Depth, SRL-M on Bit. Binder Crse. ID-2, 2" Depth on Bit. Conc. Base Crse., 4 1/2" Depth	6"
Local Ramp	10" H.E.S. R.C.C. Pav't.	9"

BASE REPLACEMENT DETAIL



ELEVATION



PLAN

TYPE 1 CONCRETE BARRIER TRANSITION TO CURB
ITEM NO. 2623-0001

TRACED BY
FINAL BY

DISTRICT	COUNTY	ROUTE	SHEET
11-0	ALLEGHENY	GLENFIELD VIADUCT	5 OF 10
	GLENFIELD BOROUGH		

REVISION NUMBER	REVISIONS	DATE	BY

SUMMARY SHEET

NO.	QTY.	UNIT	DESCRIPTION	ALT.	TAB ON SHEET
001	—	L.S.	CLEARING & GRUBBING		NO TAB
001	492	C.Y.	CLASS 1 EXCAVATION		6,7
004	87	C.Y.	CLASS 1B EXCAVATION		6
01	66	C.Y.	CLASS 2 EXCAVATION		6,7
50	108	C.Y.	CLASS 4 EXCAVATION		6
04	969	S.Y.	BIT. CONC. BASE COURSE, 4 1/2" DEPTH		6
01	955	S.Y.	SUBBASE, 6" DEPTH		6
04	156	S.Y.	SUBBASE, 9" DEPTH		6
23	969	S.Y.	BIT. WEARING COURSE, 11/2" DEPTH, SRL-M		6
02	969	S.Y.	BIT. BINDER COURSE, ID-2, 2" DEPTH		6
0	13	S.Y.	PL. CEM. CONC. PAV'T., 4" DEPTH *		7
2	156	S.Y.	H.E.S. PL. CEM. CONC. PAV'T., 10" DEPTH		6
01	483	S.Y.	PROTECTIVE COATING FOR CEM. CONC. PAVEMENT & SHOULDERS (a)		6
01	327	S.Y.	BRIDGE APPROACH SLAB		7
2	190	L.F.	18" R.C.C. PIPE, CLASS III		6
0	54	C.Y.	CRSE. AGGR. FOR PIPE TRENCH BACKFILL		6
1	3	EA.	TYPE C INLET		6
0	2	EA.	TYPE M INLET		6
1	—	L.S.	MOBILIZATION		NO TAB
2	—	L.S.	INSPECTORS FIELD OFFICE & INSPECTION FACILITIES, TYPE B		NO TAB

ITEM NO.	QTY.	UNIT	DESCRIPTION	ALT.	TAB ON SHEET
0610-7000	346	L.F.	PAVEMENT BASE DRAIN		6
0620-0402	1	EA.	TERMINAL SECTION, BRIDGE CONN.		7
0620-0500	25	L.F.	RESET EXISTING GUIDE RAIL		7
0620-0502	136	L.F.	REMOVE EXIST. GUIDE RAIL (DEPART. PROPERTY)		7
0627-0001	715	L.F.	TEMPORARY CONC. BARRIER		A-2
0627-0011	3	EA.	TEMPORARY END TRANSITION		A-2
0628-0001	175	L.F.	RESET TEMP. CONC. BARRIER		A-2
0628-0010	1	EA.	RESET TEMP. END TRANSITION		A-2
0629-0101	25	S.Y.	CONC. TRAFFIC SEPARATOR		7
0630-0001	608	L.F.	PL. CEM. CONC. CURB		7
0677-0001	11	C.Y.	SELECTED MATERIAL SURFACING		7
0676-0001	179	S.Y.	CEMENT CONCRETE SIDEWALK		7
0686-0001	—	L.S.	ENGINEERING STAKES		NO TAB
0802-0001	360	C.Y.	TOPSOIL, FURNISHED & PLACED		7
0804-0012	4	LB.	SEEDING & SOIL SUPPLEMENT - FORMULA C		7
0804-0013	61	LB.	SEEDING & SOIL SUPPLEMENT - FORMULA D		7
0804-0021	50	LB.	TEMPORARY SEEDING		7
0805-0022	2	TON	MULCHING, HAY		7
0845-0001	—	—	UNFORESEEN PROJECT WATER POLLUTION CONTROL (SOIL EROSION) (a)		NO TAB
0850-0004	15	S.Y.	ROCK LINING, R-5		7
0865-0001	1000	L.F.	SILT BARRICADE FENCE, 18" HEIGHT		7
0901-0001	—	L.S.	MAINTENANCE & PROTECTION OF TRAFFIC DURING CONSTRUCTION *		NO TAB
0901-0025	1	TON	CALCIUM CHLORIDE		A-2
0901-0051	—	L.S.	RAILROAD CONSTRUCTION INSPECTION AND COORDINATION SERVICES (a)		NO TAB
0901-0201	1	EA.	ARROW BOARD		A-2
1001-0010	1	C.Y.	CLASS A CEM. CONCRETE		6
1999-9999	—	HR.	TRAINEES * (a)		NO TAB
1001-0020	26	C.Y.	CLASS C CEM. CONCRETE		

ITEM NO.	QTY.	UNIT	DESCRIPTION	ALT.	TAB ON SHEET
EITHER 2000-0001	—	L.S.	BRIDGE STRUCTURE, AS DESIGNED, S-1620 *		8
AND 1005-1003	2040	L.F.	STEEL BEAM BEARING PILES, HP12X53		8
AND 1005-1004	3888	L.F.	STEEL BEAM BEARING PILES, HP12X74		8
AND 1005-1153	41	EA.	STEEL BEAM PILE TIP REINFORCEMENT, HP12X53		8
AND 1005-1154	116	EA.	STEEL BEAM PILE TIP REINFORCEMENT, HP12X74		8
OR 2000-0002	—	L.S.	STEEL BRIDGE STRUCTURE		8
AND 1005-1003	(_____)	L.F.	STEEL BEAM BEARING PILES, HP12X53		8
AND 1005-1004	(_____)	L.F.	STEEL BEAM BEARING PILES, HP12X74		8
AND 1005-1153	(_____)	L.F.	STEEL BEAM PILE TIP REINFORCEMENT, HP12X53		8
AND 1005-1154	(_____)	L.F.	STEEL BEAM PILE TIP REINFORCEMENT, HP12X74		8
OR 2000-0003	—	L.S.	CONCRETE BRIDGE STRUCTURE		8
AND 1005-1003	(_____)	L.F.	STEEL BEAM BEARING PILES, HP12X53		8
AND 1005-1004	(_____)	L.F.	STEEL BEAM BEARING PILES, HP12X74		8
AND 1005-1153	(_____)	L.F.	STEEL BEAM PILE TIP HP12X53		8
AND 1005-1154	(_____)	L.F.	STEEL BEAM PILE TIP HP12X74		8
1018-0001	—	L.S.	REMOVE EXISTING BRIDGE *		NO TAB
2623-0001	3	EA.	TYPE I CONCRETE BARRIER TRANSITION TO CURB *		7
2901-0001	200	HR.	OFF-DUTY UNIFORMED POLICE OFFICERS *		A-2
2901-0002	200	S.F.	CONSTRUCTION WARNING SIGNS, AS DIRECTED *		A-2
2901-0003	85	S.Y.	TEMPORARY PAVEMENT *		A-2
0901-0040	6	EA.	FURNISH TUBULAR MARKER		A-2
0901-0041	6	EA.	INSTALL TUBULAR MARKER		A-2
0901-0042	6	EA.	REMOVE TUBULAR MARKER		A-2

A - TRAFFIC CONTROL PLAN

CERTIFIED CORRECT AS BUILT

Engineer

Approved by PENNA. PUBLIC UTILITY COMMISSION

Attest:

Secretary

* SPECIAL PROVISION
(a) PREDETERMINED PRICE

MAR 15 1982

Elev. 712.75
30' Rt. Sta 7+90 Survey ℄ Glenfield Viaduct
Cut Mark In Rim Of Manhole

B.M.-Elev. 716.98
21.4' Rt. Sta. 16+55 East Beaver St. ℄
Top Of Bolt On Fire Hydrant

B.M.-Elev. 765.70
23.5' Lt Sta 514+35.58 Local Ramp ℄
Penn. D.O.T. Standard Disk Set In Top Of
N.E. Wingwall Of Glenfield Viaduct

JAMES B. SAVAGE

JOHN J. HALLSTEIN & OEDNA M SHIPPER

EDWARD WOODS & CAROLINE E. WOODS H/W

CYRIL E. YARAS & DEBORAH L. YARAS H/W

THOMAS STEEDLE

JOSEPH W. DEWITT & HILDA M. DEWITT H/W

(7) VALLEY VETERANS ASSOCIATION

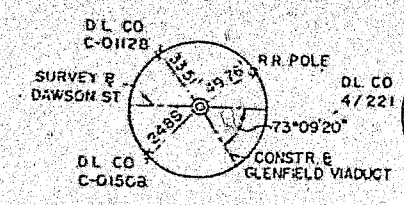
(8) THOMAS MICHAEL GILMORE & PATRICIA JO GILMORE H/W

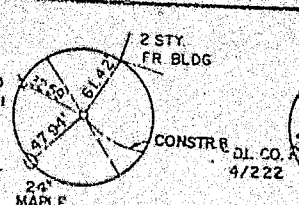
(9) FRANCIS REICH & JOANNE REICH H/W

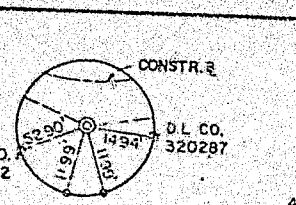
(10) JAMES R. TUNNEY & MARY BERTHA TUNNEY H/W

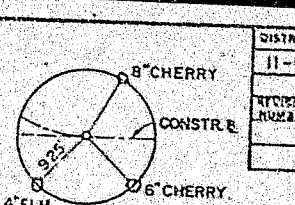
(11) PETER J. CERNANSKY & GAIL E. CERNANSKY H/W

(12) JOHN A. O'NEIL & JOSEPHINE T. O'NEIL H/W









DISTRICT	COUNTY	PROJECT	SHEET
11-0	ALLEGHENY	GLENFIELD VIADUCT	9 OF 10
	GLENFIELD BOROUGH		

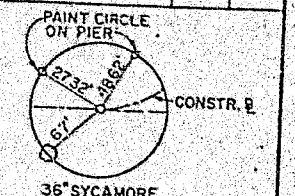
REVISION NUMBER	REVISIONS	DATE	BY

P.O.T. Sta. 10+00.00 ℄ Dawson Ave.=
P.O.T. Sta. 0+00.00 Constr. ℄ Glenfield Viaduct

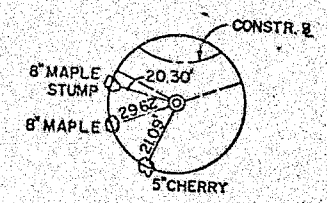
P.C. Sta. 1+13.63

P.I. Sta. 2+49.99
Δ= 105°42'33"

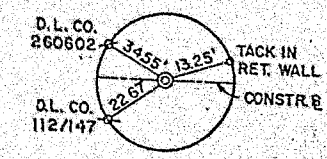
P.T. Sta. 3+47.02



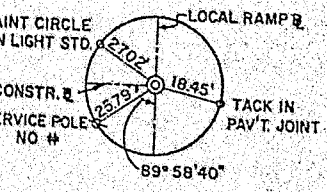
P.C. Sta. 6+59.03



P.I. Sta. 8+37.34
Δ= 90°34'20"



P.O.T. Sta. 9+88.80



P.O.T. Sta. 11+99.01 Constr. ℄ Glenfield Viaduct
= P.O.T. Sta. 514+15.73 Local Ramp ℄

GLENFIELD VIADUCT

P.I. Sta. 2+49.99
Δ=74°17'27" Lt.
D=31°49'51.6"
T=136.36'
L=233.39'
R=180.00'
E=45.54'
Superelevate = 0.03%
P.C. Sta. 1+13.63
P.T. Sta. 3+47.02

GLENFIELD VIADUCT

P.I. Sta. 8+37.24
Δ=89°25'40" Lt.
D=31°49'51.6"
T=178.21'
L=280.95'
R=180.00'
E=73.30'
Superelevate = 0.03%
P.C. Sta. 6+59.03
P.T. Sta. 9+39.98

P.O.T. Sta 0+00.00 Constr. ℄ Glenfield Viaduct =
P.O.T. Sta. 10+00.00 Dawson Avenue

FOR DETAILS OF INTERSECTION SEE SHEET 4

STOP WORK
Sta. 515+40
L.R. 652 W.B.

FOR DETAILS OF INTERSECTION SEE SHEET 4

P.O.T. Sta. 11+99.01 Constr. ℄ Glenfield Viaduct =
P.O.T. Sta. 514+15.73 Local Ramp

START WORK
Sta. 513+43
L.R. 652 W.B.

LIMIT OF WORK
STA. 0+10.87
GLENFIELD VIADUCT
GLENFIELD BOROUGH
ALLEGHENY COUNTY

LIMIT OF WORK
STA. 11+99.01
GLENFIELD VIADUCT
GLENFIELD BOROUGH
ALLEGHENY COUNTY

START WORK
Sta. 9+30
Dawson Ave.

L.R. 652 WESTBOUND
LOCAL RAMP N73°50'33.1"W
L.R. 652 EASTBOUND
RAMP B1
Legal Right-Of-Way Line For Limited Access
Legal Right-of-Way Line
CONRAIL
Legal Right-of-Way Line for Aerial Easement
Legal Right-of-Way Line for Aerial Easement
DAWSON AVE.
EAST BEAVER ST.
S73°18'56.2"E
S73°10'10.1"
PHILLIPS LANE (Brick)
S74°26'13.1"E
GLENFIELD VIADUCT
Legal Right-of-Way Line
Survey & Constr. ℄
Legal Right-of-Way Line
Legal Right-of-Way Line
Legal Right-of-Way Line

DISTRICT	COUNTY	ROUTE	SHEET
11-0	ALLEGHENY	GLENFIELD VIADUCT	10 OF 10
	GLENFIELD BOROUGH		

REVISION NUMBER	REVISIONS	DATE	BY

LIMIT OF WORK
STA. 0+10.87
GLENFIELD VIADUCT
GLENFIELD BOROUGH
ALLEGHENY COUNTY

P.V.I. Sta. 1+15
Elev. 718.12
V.C.=200'
M.O.=+0.66
H.L.S.D.=270'

P.V.I. Sta. 4+00
Elev. 724.16
V.C.=200'
M.O.=+0.83'
H.L.S.D.=200'

P.V.I. Sta. 11+25
Elev. 763.60
V.C.=100'
M.O.=-0.57'
STOP CONDITION

LIMIT OF WORK
STA. 11+99.01
GLENFIELD VIADUCT
GLENFIELD BOROUGH
ALLEGHENY COUNTY

+0.92%
+5.44%
+2.12%
-0.51%

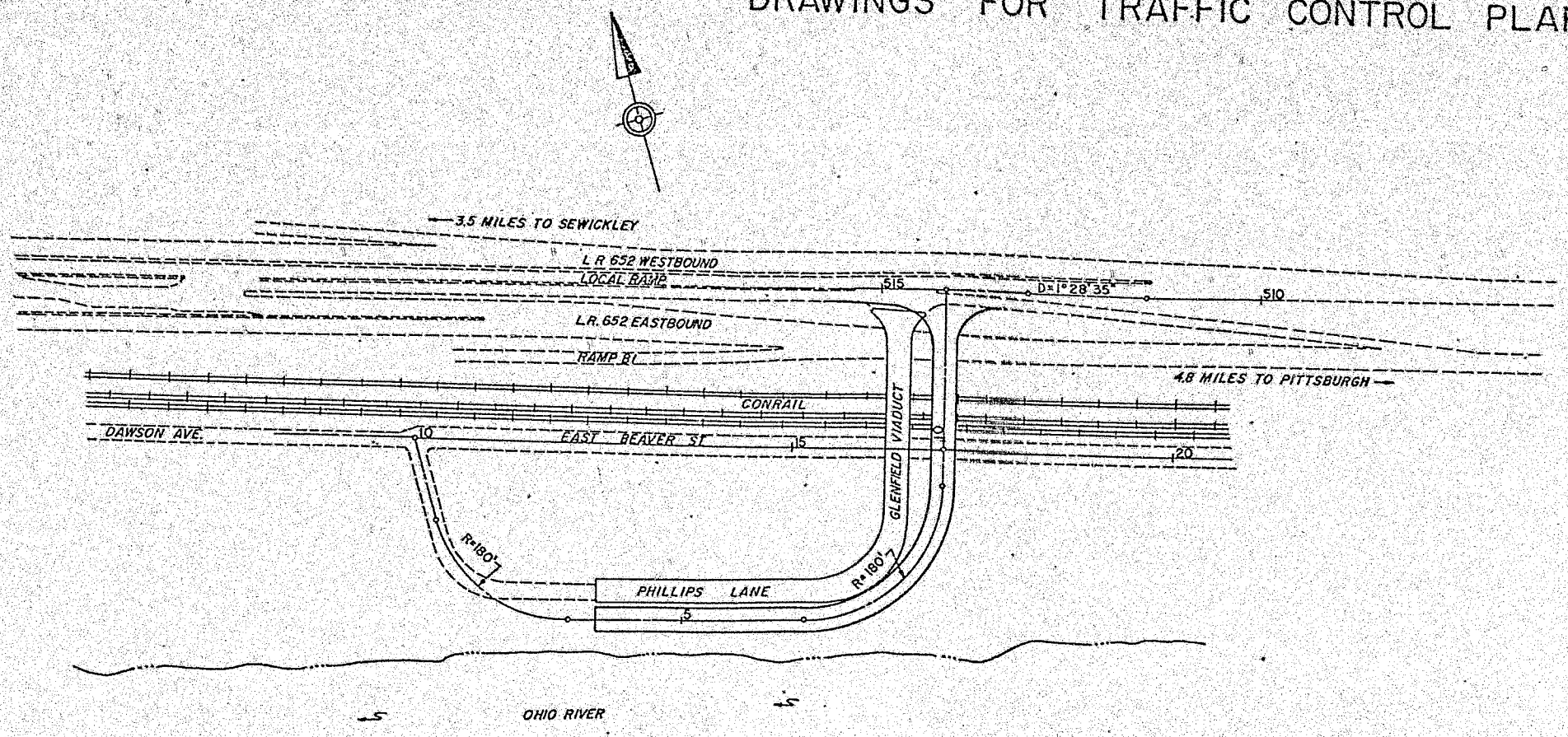
14'-5" Min. Clr.
36'-3" Min. Actual Clr.
E. Beaver St.
22'-6" Min. Clr.
28'-6 1/2" Min. Act. Clr.
Conrail
14'-6" Min. Clr.
21'-6" Min. Act. Clr.
L.R. 652 E.B.

| | | |

DRAWINGS FOR TRAFFIC CONTROL PLAN

DISTRICT	COUNTY	ROUTE	SHEET
11-0	ALLEGHENY	GLENFIELD VIADUCT	1 OF 4
	GLENFIELD BOROUGH		

REVISION NUMBER	REVISIONS	DATE	BY



GENERAL NOTES

THIS WORK CONSISTS OF THE MAINTENANCE OF TRAFFIC AND THE PROTECTION OF THE TRAVELING PUBLIC APPROACHING THE CONSTRUCTION AREA AND WITHIN THE LIMITS OF CONSTRUCTION.

THE CONTRACTOR FURNISHES, ERECTS, PLACES AND MAINTAINS TRAFFIC CONTROL DEVICES AND MAINTAINS TRAFFIC DURING HOURS OF THE CONSTRUCTION AND AT ALL OTHER TIMES IN ACCORDANCE WITH THE METHODS INDICATED ON THESE DRAWINGS, AND,

1. THE SPECIAL PROVISIONS OF THE CONTRACT.
2. PA CODE, TITLE 67, CHAPTER 203, WORK ZONE TRAFFIC CONTROL.
3. PA CODE, TITLE 67, CHAPTER 211, OFFICIAL TRAFFIC CONTROL DEVICES.
4. PDT PUBLICATION NO. 35, APPROVED CONSTRUCTION MATERIALS (BULLETIN 15).
5. PDT PUBLICATION NO. 408, SPECIFICATIONS.

IMMEDIATELY UPON COMPLETION OF THE WORK, REMOVE TRAFFIC CONTROL DEVICES UNLESS OTHERWISE SPECIFIED IN THE SPECIAL PROVISIONS THEY ARE THE CONTRACTORS PROPERTY. THE DEPARTMENT IS TO REMOVE ANY TRAFFIC CONTROL DEVICES ERECTED BY DEPARTMENT FORCES.

PLACE ALL TRAFFIC CONTROL DEVICES FOR INSPECTION BY THE DISTRICT CONSTRUCTION ENGINEER OR HIS REPRESENTATIVE BEFORE WORK BEGINS.

COVER OR REMOVE FROM SIGHT ALL SIGNS NOT IN USE.

THIS TRAFFIC CONTROL PLAN DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY AS SPECIFIED IN SECTION 901.3 (a) OF PUBLICATION NO. 408.

LOCATION OF ALL TRAFFIC CONTROL DEVICES ARE APPROXIMATE. FINAL LOCATION TO BE ESTABLISHED IN THE FIELD.

TRAFFIC CONTROL DEVICES SHOWN IN THE PLANS ARE NOT TO SCALE.

CERTIFIED CORRECT PLANS

Donald R. Hosack
Engineer

B. L. Schwar
Secretary of Transportation

Approved by
PENNA. PUBLIC UTILITY COMMISSION

Attest:

Secretary

MAR 5 1987

TABULATION OF TRAFFIC CONTROL DEVICES

DISTRICT	COUNTY	ROUTE	SHEET
11-0	ALLEGHENY	GLENFIELD VIADUCT	2 OF 4
	GLENFIELD BOROUGH		

REVISION NUMBER	REVISIONS	DATE	BY

FOR INFORMATION ONLY

LOCATION	W3-1-1 STOP AHEAD 48"X48"	W4-2L PAV'T. TRANS.-LT. LANE ENDS 48"X48"	W20-1 ROAD CONSTRUCTION 60"X60"	W20-5-1 LEFT LANE CLOSED 48"X48"		W20-7a FLAGGER SYMBOL 48"X48"		W30-1-6 AHEAD	W30-1-5 1 MILE	W30-1-4 1/2 MILE	W30-1-3 1500 FT.	W30-1-2 1000 FT.	W20-8 ARROW SIGN 30"X30"	W13-1 ADVISORY SIGN 30"X30"	R3-1 NO RIGHT TURN SIGN 24"X24"	R1-1 STOP SIGN 48"X48"	M4-5 "TO" SIGN 24"X12"	M1-6 ROUTE MARKER 24"X24"	M3-3 "SOUTH" SIGN 24"X12"	M6-1 90° TURN MARKER 21"X15"	SPECIAL - U-TURN SIGN 24"X24"	G20-2 END CONSTRUCTION 60"X24"	TEMP. REMOVABLE PAV'T MARKING TAPE (6" WHITE)	TYPE B FLASHER	TYPE III BARRICADE	APPROVED DRUM W/ TYPE C LIGHT	TEMP. REMOVABLE PAV'T MARKING TAPE (4" YELLOW)		TEMPORARY CONCRETE BARRIER	TEMPORARY END TRANSITION	RESET TEMP. CONCRETE BARRIER	RESET TEMP. END TRANSITION	MAINTENANCE & PROTECTION OF TRAFFIC DURING CONSTRUCTION	CALCIUM CHLORIDE	FURNISH TUBULAR MARKERS	INSTALL TUBULAR MARKERS	REMOVE TUBULAR MARKERS	ARROW BOARD	OFF-DUTY UNIFORMED POLICE OFFICERS	CONSTRUCTION WARNING SIGNS	TEMPORARY PAVEMENT	REMARKS
ITEM NUMBER																															0627		0628		0901						2901		
UNIT																															0001 L.F.	0011 EA.	0001 L.F.	0010 EA.	0001 L.S.	0025 TONS	0040 EA.	0041 EA.	0042 EA.	0201 EA.	0001 HR.	0002 S.F.	0003 S.Y.	
ENTIRE PROJECT			5					3	2														3		5	8															
STAGE 1	2	2	3	6		3		3		2	2	2	3	8	1	4	2.	2	2	1	1	1		2406	8	19	72	435		685	1				1				1	200	200	85	
STAGE 2	2	2	3	6				3		2	2	2		8		4								2410	11	17	62			30	2	175	1			6	6	6					
TOTALS	4	4	11	12		3		9	2	4	4	4	3	16	1	8	2	2	2	1	1	4	4816	24	44	134	435		715	3	175	1		1	6	6	6	1	200	200	85	

CERTIFIED CORRECT PLANS

Engineer

Approved by Federal Highway Administration

PENNA. PUBLIC UTILITY COMMISSION

Attest:

Secretary

MAR 25 1987

DISTRICT	COUNTY	ROUTE	SHEET
11-0	ALLEGHENY	GLENFIELD VIADUCT	3 OF 4
	GLENFIELD BOROUGH		

REVISION NUMBER	REVISIONS	DATE	BY

TO 65 SOUTH — M4-5 (24"x12"), M1-6 (24"x24"), M3-3 (24"x12"), SPECIAL (24"x24")

TO 65 SOUTH — M4-5 (24"x12"), M1-6 (24"x24"), M3-3 (24"x12"), M6-1 (21"x15")

R3-1 (24"x24")

W20-8 (30"x30")

3.5 MILES TO SEWICKLEY

ARROW BOARD

L.R. 652 WESTBOUND

LOCAL RAMP

TUBULAR MARKERS 25' SPACING

Y.P.M.

250' TRANSITION

Approved Drums w/Type 'C' Lights 25' c to c

Bury end of Barrier

Temporary Conc. Barrier

W.P.M.

RAMP R

55'

660'

LANE TRANSITION

Approved Drums w/Type 'C' Lights 55' c to c

660'

W.P.M.

RAMP B1

W.P.M.

TEMP. END TRANSITION

W.P.M.

Approved Drums w/Type 'C' Lights 25' c to c

110' TRANSITION

L.R. 652 EASTBOUND

48 MILES TO PITTSBURGH

CONRAIL

EAST BEAVER ST.

GLENFIELD VIADUCT

PHILLIPS LANE

CONSTRUCT PHILLIPS LANE STA. 0+0 TO 2+75 SO AS TO MAINTAIN AT LEAST ONE LANE OF TRAFFIC. FLAGGERS WILL BE REQUIRED DURING ONE LANE OPERATIONS.

AT END OF EACH DAYS OPERATIONS ROAD SURFACE SHOULD BE SHAPED TO ALLOW TWO LANE TRAFFIC. IF THIS CAN NOT BE ACCOMPLISHED, PROVIDE 24 HOUR FLAGGERS.

CLOSE SIDEWALK DURING CONSTRUCTION OF PHILLIPS LANE, STA. 0+0 TO 2+75.

FLAGGER SIGNS ARE TO BE IN PLACE ONLY WHEN FLAGGERS ARE PRESENT.

LANE RESTRICTION ON L.R. 652 EASTBOUND TO BE IN EFFECT ONLY DURING CONSTRUCTION OF ABUTMENT 8. AT ALL OTHER TIMES, MAINTAIN NORMAL TRAFFIC PATTERNS, PROVIDE ADVANCE SIGNING IN ACCORDANCE WITH FIGURE 24, PUBLICATION 203.

OHIO RIVER

LANE RESTRICTIONS ON LOCAL RAMP TO BE IN EFFECT ONLY DURING CONSTRUCTION OF ABUTMENT B, THE APPROACH SLAB AND THE ADJACENT ROADWAY.

Exist. Pav't. / Exist. Median (to be removed) / Exist. Pav't.

Bit. Surface Crse., ID-2, 1 1/2" Depth

Bit. Conc. Base Crse., 5" Depth

Subbase Material

DETAIL - TEMPORARY PAVING

(REMOVE MEDIAN AND INSTALL TEMPORARY PAVING WHILE MAINTAINING EXISTING TRAFFIC PATTERNS AROUND THIS AREA - SEE FIGURE 24, PUBLICATION 203 FOR TRAFFIC CONTROL DETAILS)

2640' — 1140' — 500' — 500'

Type 'B' Flasher — W 20-1 (48"x48") — W 30-1-5 — ROAD CONSTRUCTION 1 MILE

Type 'B' Flasher — W 20-5-1 (48"x48") — W 30-1-4 — LEFT LANE CLOSED 1/2 MILE

W 20-5-1 (48"x48") — W 30-1-3 — LEFT LANE CLOSED 1500 FT.

W 20-5-1 (48"x48") — W 30-1-2 — LEFT LANE CLOSED 1000 FT.

4-2L (48"x48")

Type III Barricade

50 MPH W13-1 — Type III Barricade

45 MPH W13-1 — Type III Barricade

40 M.P.H. W13-1 — Type III Barricade

35 MPH W13-1 — Type III Barricade

50' 25' 0 50'

ADVANCED SIGNING - L.R. 652 EASTBOUND

AS-BUILT PLANS

Engineer

Approved by

PENNA. PUBLIC UTILITY COMMISSION

Attest:

Secretary

MAR 5 1987

LEGEND

PERMANENT CONSTRUCTION

TEMPORARY PAVEMENT

APPROVED MARKER

TUBULAR MARKER

W.P.M.-TEMPORARY REMOVABLE PAV'T. MARKING TAPE (4" WHITE)

Y.P.M.-TEMPORARY REMOVABLE PAV'T. MARKING TAPE (4" YELLOW)

Type 'B' Flasher — W 20-1 (60"x60") — W 30-1-6 — 25 MPH W13-1 — Type III Barricade

END CONSTRUCTION G20-2 (60"x24") — Type III Barricade — (2)

W 20-7a (48"x48") — Type III Barricade — (3)

Type B Flasher — STOP AHEAD W3-1-1 (48"x48") — Type III Barricade — (4)

Type 'B' Flasher w/Red Lense — STOP R1-1 (48"x48") — Type III Barricade — (5)

25' 0 50'

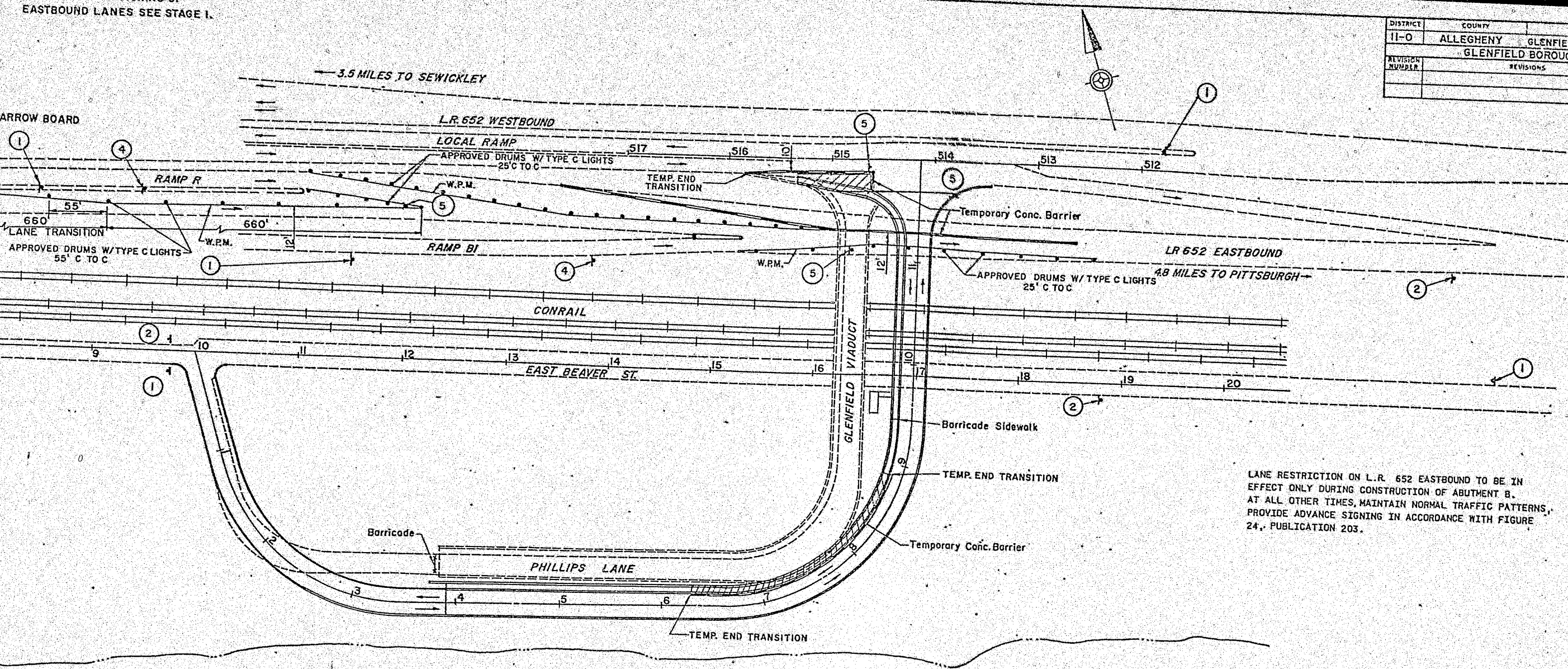
STAGE 1

TRAFFIC CONTROL

TE: FOR ADVANCED SIGNING OF EASTBOUND LANES SEE STAGE I.

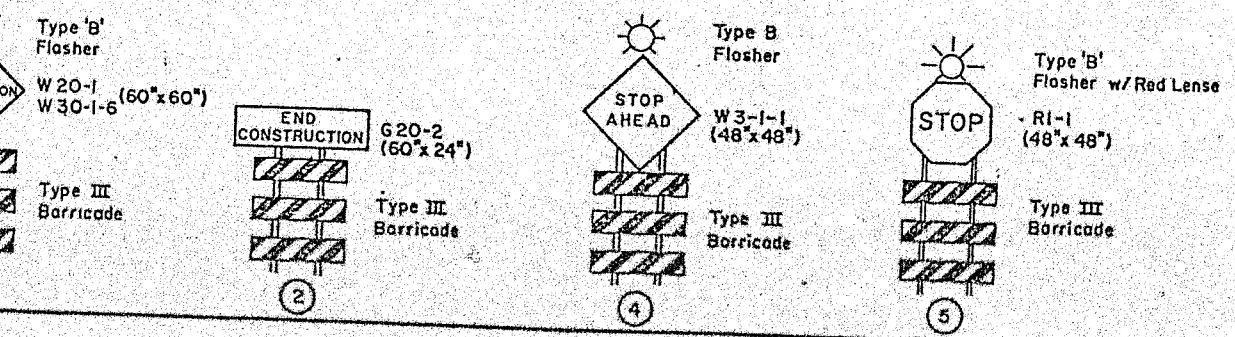
DISTRICT	COUNTY	ROUTE	SHEET
11-0	ALLEGHENY	GLENFIELD VIADUCT	4 OF 4
	GLENFIELD BOROUGH		

REVISION NUMBER	REVISIONS	DATE	BY



NOTE : SEE SHEET 3 OF 4 FOR ADVANCE SIGNING FOR L.R.652 EASTBOUND DURING LEFT LANE CLOSURE.

LANE RESTRICTION ON L.R. 652 EASTBOUND TO BE IN EFFECT ONLY DURING CONSTRUCTION OF ABUTMENT B. AT ALL OTHER TIMES, MAINTAIN NORMAL TRAFFIC PATTERNS, PROVIDE ADVANCE SIGNING IN ACCORDANCE WITH FIGURE 24, PUBLICATION 203.



CERTIFIED CORRECT PLANS

Engineer

Approved by
PENNA. PUBLIC UTILITY COMMISSION
Attest:

Secretary

MAR 5 1987

LEGEND

- PERMANENT CONSTRUCTION
- TEMPORARY PAVEMENT
- APPROVED DRUMS

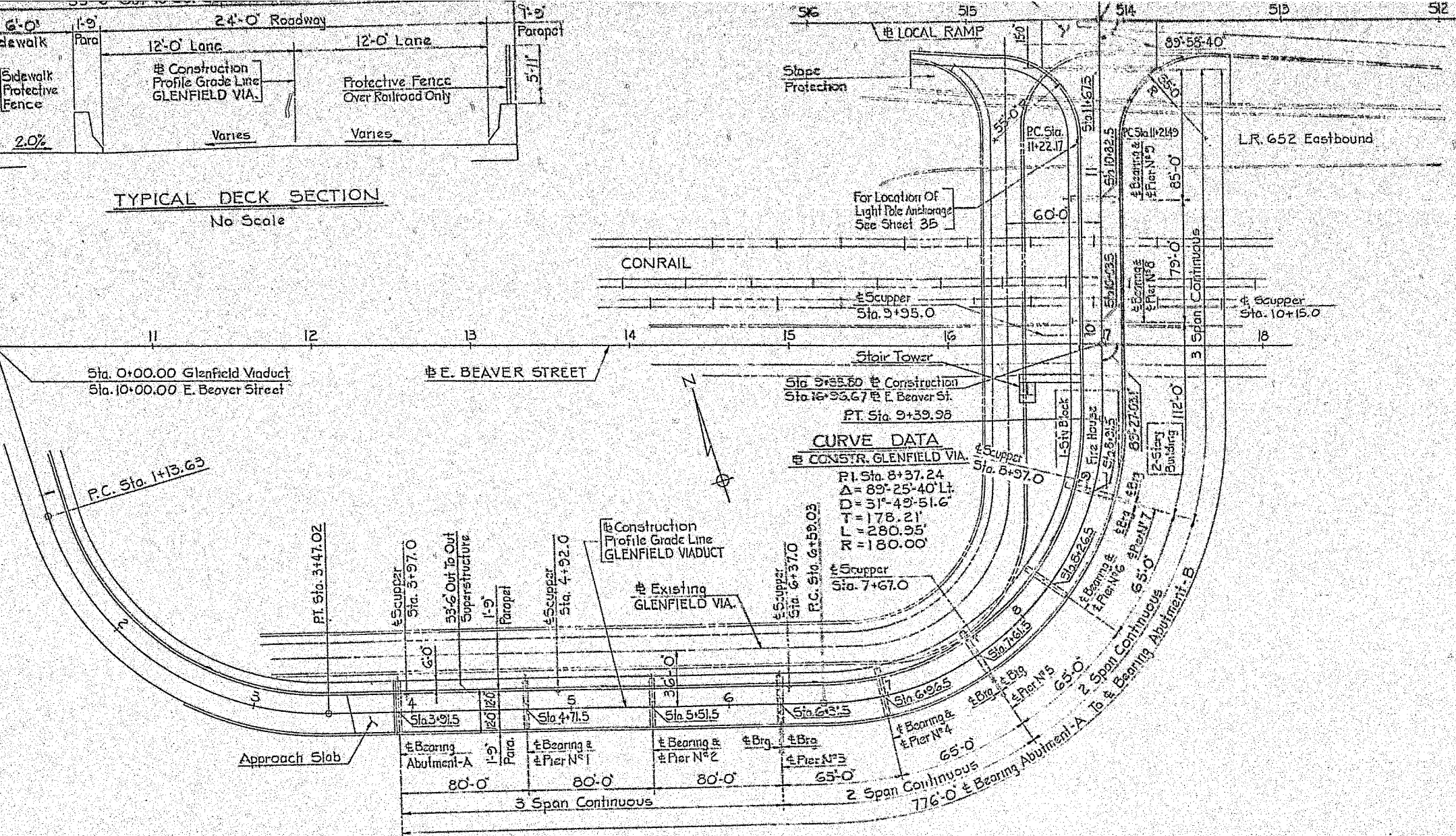
WPM.-TEMPORARY REMOVABLE PAVEMENT MARKING TAPE (4" WHITE)

STAGE 2

TRAFFIC CONTROL PLAN

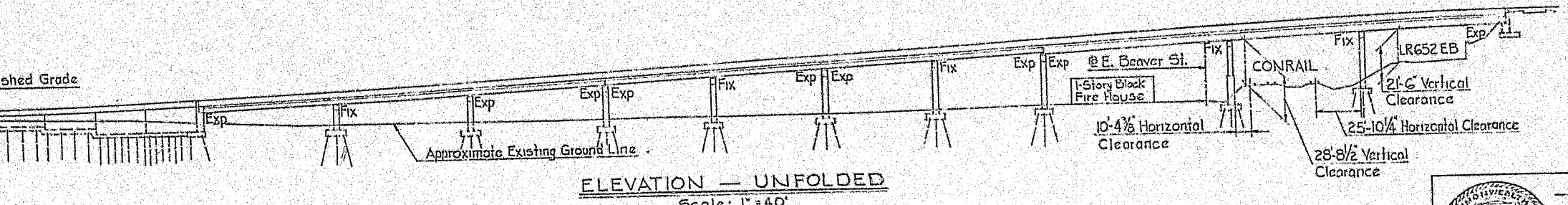
TYPICAL DECK SECTION

No Scale



PLAN

Scale: 1" = 40'



ELEVATION — UNFOLDED

Scale: 1" = 40'

1	Abutment-A, Plan & Elevation	21	Camber & Elev. Schedules - Units II & III
2	Abutment-B, Plan & Elevation	22	Framing Plan - Unit IV
3	Abutment-A, Plan, Elev. & Sections	23	Camber & Elev. Schedules - Units II & III
4	Walls A & B, Plan & Elevation	24	Camber & Elev. Schedules - Units II & III
5	Walls A & B, Sections & Schedule	25	Framing Plan - Unit IV
6	Abut.-B & Wall-D, Plan & Elevation	26	Stringer Details - Unit IV
7	Wall-C, Plan, Elevation & Section	27	Stringer Splices & Details - Unit IV
8	Abut.-B & Wall-D, Sections & Details	28	Camber & Elevation Schedule - Unit IV
9	Abut.-B & Walls C & D, Details & Schedule	29	Deck Plan - Unit I
10	Pier N° 1	30	Deck Plan - Unit II & III
11	Pier N° 2	31	Deck Plan - Unit IV
12	Pier N° 3	32	Deck Details & Bar Schedules
13	Pier N° 4	33	Miscellaneous Details
14	Pier N° 5	34	Drainage And Miscellaneous Details
15	Pier N° 6	35	Electrical Plan & Details
16	Pier N° 7	36	Boring Logs
17	Pier N° 8	37	Boring Logs
18	Pier N° 9	38	Boring Logs
19	Framing Plan - Unit I	39	Boring Logs
20	Stringer Details - Unit I		

SUPPLEMENTAL DRAWINGS

DESCRIPTION	DWG. N°	APP. DATE
Protective Fence	BC-301A	3-2-81
Pedestrian Traffic Barrier (Terminal Details)	BC-317A	3-2-81
Electrical Details	BC-321A	6-20-80
Lighting Pole Anchorage	BC-322A	6-20-80
Cement Concrete Slope Wall	BC-331A	11-4-81
Permanent Metal Deck Forms	BC-332B	6-21-82
Threaded Insert Anchor Assembly	BC-334A	3-2-81
Construction & Expansion Joint Details	BC-335A	11-4-81
Reinforcement Bar Fabrication Details	BC-336A	11-4-81
Railing Anchor Systems	BC-337A	3-2-81
Bridge Drainage	BC-351	7-1-70
Concrete Deck Slab Details	BC-352	4-1-71
Steel Girder Details	BC-353	4-1-71
Steel Diaphragms	BC-354	7-1-70
Bearings - Sheet 1 Of 2	BC-355A	11-10-80
Bearings (For Curved Steel Beam Bridges)	BC-356A	11-10-80
Armored Preformed Neoprene Compression Dam	BC-363	10-20-70
Highway Lighting	RC-83	9-26-84
Classification Of Earthwork For Structures	RC-11	5-2-83
Backfill At Structures	RC-12	5-2-83
Bridge Approach Slab	RC-25	5-2-83

CERTIFIED CORRECT PLANS

Engineer

Approved by PENNA. PUBLIC UTILITY COMMISSION

Attest: Secretary

Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				

MAR 5 1987

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE

GENERAL PLAN & ELEVATION

Date: FEB 08 '87

Rummel, Klepper & Kahl
1305 Bridge Street
New Cumberland, Pa.

RECOMMENDED

BRIDGE ENGINEER

SHEET 1 OF 32

S-16201

GENERAL NOTES

ON SPECIFICATIONS:

TERIALS AND PERFORM WORK IN ACCORDANCE WITH PENNSYLVANIA DEPARTMENT OF
TION "SPECIFICATION PUBLICATION 408," 1983 EDITION, THE AMERICAN WELDING
STRUCTURAL WELDING CODE," 1980 AND THE SPECIAL PROVISIONS.

CIFICATIONS:

IN ACCORDANCE WITH THE AASHTO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES,"
N, AS SUPPLEMENTED BY THE AASHTO "GUIDE SPECIFICATIONS FOR HORIZONTALLY
WAY BRIDGES," 1980 EDITION, THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION,
VAL, PART 4, STRUCTURES," 1982 EDITION AND THE "LOAD FACTOR DESIGN LETTERS
HROUGH 8.

DESIGN METHOD.

HS25-44 LOADING; ALTERNATE MILITARY LOADING OF TWO AXLES, FOUR FEET
APART, WITH EACH AXLE WEIGHING 30,000 POUNDS; OR 204,000 POUND PERMIT
VEHICLE (BD82-33 DATED AUGUST 6, 1982) WHICHEVER PRODUCES THE GREATEST
STRESS.

INCLUDES 30 POUNDS PER SQUARE FOOT FOR FUTURE WEARING SURFACE ON THE
DECK SLAB.

INCLUDES 15 POUNDS PER SQUARE FOOT OF DECK AREA FORMED USING PERMANENT
METAL DECK FORMS.

AVERAGE DAILY TRUCK TRAFFIC LESS THAN 2500.

D: 25 MILES PER HOUR.

SS AAA CEMENT CONCRETE FOR DECK SLABS.
SS AA CEMENT CONCRETE FOR BACKWALLS, U-WINGS ABOVE BRIDGE SEAT CONSTRUCTION
, SIDEWALKS AND PARAPETS.
SS A CEMENT CONCRETE FOR PIERS, ABUTMENTS BELOW BRIDGE SEATS, PEDESTALS,
ETAINING WALLS AND ALL FOOTINGS.
SS C CEMENT CONCRETE BELOW BOTTON OF FOOTINGS WHEN SPECIFIED.
INCH CONCRETE COVER ON REINFORCEMENT BARS EXCEPT WHERE NOTED OTHERWISE.
SED CONCRETE EDGES 1 INCH BY 1 INCH EXCEPT WHERE NOTED OTHERWISE.
IXTURE CONFORMING TO SECTION 711.3 OF PUBLICATION 408 MAY BE USED IN THE CONCRETE

ER PERMANENT METAL DECK FORMS OR REMOVABLE FORMS.
KWALLS MAY BE PLACED UP TO A CONSTRUCTION JOINT BELOW THE LEVEL OF THE BOTTOM
SLAB PRIOR TO CONSTRUCTION OF THE SUPERSTRUCTURE.
ING AREA AS SPECIFIED IN SECTION 1001.3(k)8 OF PUBLICATION 408.

STEEL:

E 60 STEEL FOR ALL REINFORCING BARS.
Y-COATED REINFORCING BARS IN DECK SLAB, SIDEWALKS, PARAPETS AND ABUTMENT
G IS IN ACCORDANCE WITH PENNSYLVANIA DEPARTMENT OF TRANSPORTATION STANDARDS.
MENSIONS ARE OUT TO OUT.
G DO NOT INCLUDE REINFORCING BARS FOR ITEMS DETAILED IN STANDARD DRAWINGS.

EEL:

TURAL STEEL CONFORMING TO ASTH DESIGNATION A572, GRADE 50, FOR MAIN LOAD
ERS AND ATTACHMENTS, AS INDICATED ON THE DRAWINGS. PROVIDE STRUCTURAL STEEL
ASTH DESIGNATION A36 AT ALL OTHER LOCATIONS, EXCEPT WHERE NOTED OTHERWISE.
IRDERS CAN BE FABRICATED IN LENGTHS LONGER THAN THE SECTIONS SHOWN ON THE
MINATING FIELD SPLICES. FIELD SPLICES MAY BE OMITTED AT THE REQUEST OF THE
ROVIDED HE HAS OBTAINED A HAULING PERMIT PRIOR TO PREPARATION OF STEEL SHOP
GS. OMITTED FIELD SPLICES WILL NOT BE APPROVED AT THE SHOP DRAWING REVIEW
PY OF HAULING PERMIT DOES NOT ACCOMPANY THE AFFECTED SHOP DRAWINGS. IF
ERS CANNOT BE SHIPPED IN LENGTHS SHOWN ON THE PLANS, FIELD SPLICES WILL BE
THE REQUEST OF THE CONTRACTOR, BUT NO COMPENSATION WILL BE ALLOWED FOR SPLICE.

E BUTT WELDED SPLICES AS SHOWN ON THE DRAWINGS.
STRENGTH BOLTS CONFORMING TO ASTM DESIGNATION A325 FOR ALL FASTENERS, UNLESS
E. PROVIDE 7/8 INCH DIAMETER BOLTS UNLESS NOTED OTHERWISE.
LD SPLICES IS PROHIBITED.
DIMENSIONS ARE GIVEN FOR A MEAN TEMPERATURE OF 68° F.
BOLTS CONFORMING TO ASTH DESIGNATION A36, AND INSTALL IN ACCORDANCE WITH SECTION
PUBLICATION 408. PROVIDE MINIMUM SIZE AND EMBEDMENT OF ANCHOR BOLTS AS FOLLOWS:
PIER 9: 1¼ INCH DIAMETER, 12 INCH EMBEDMENT
R 7, SPAN H: 1¼ INCH DIAMETER, 15 INCH EMBEDMENT
1 INCH DIAMETER, 10 INCH EMBEDMENT
L NOT OTHERWISE PROTECTED IN ACCORDANCE WITH SECTION 1060 OF PUBLICATION 408.

TINGS MAY BE ORDERED BY THE ENGINEER TO BE AT ANY ELEVATION OR OF ANY DIMENSIONS
OVIDE A PROPER FOUNDATION.
PILES TO ABSOLUTE REFUSAL INTO THE STRATUM DEFINED BY TIP ELEVATIONS PREDETERMINED
FROM TEST PILES. THE ACCEPTABILITY OF THE BEARING PILES WHICH ATTAIN ABSOLUTE
THE PREDETERMINED TIP ELEVATIONS SHALL BE DECIDED BY THE ENGINEER. THE CAPABILITY
ELECTED BY THE CONTRACTOR SHALL BE VERIFIED BY THE ENGINEER FROM THE TEST PILE
.
ES WITH PILE TIP REINFORCEMENT.

URES:
FIELD, ALL DIMENSIONS AND GEOMETRY OF EXISTING STRUCTURES RELEVANT TO THE NEW
S OF DEMOLITION ARE VISIBLE UNDER FINAL CONDITIONS, REMOVE EXISTING STRUCTURES OR
T LINES. PROTECT PORTIONS OF EXISTING STRUCTURES TO REMAIN AFTER DEMOLITION FROM
CHOLITION AND CONSTRUCTION.

AT ABUTMENT B, THE INTENTION OF THE DESIGN IS TO PROVIDE A SMOOTH TRANSITION BETWEEN THE NEW STRUCTURE AND THE EXISTING STRUCTURES, ROADWAY AND SIDEWALK SURFACES. WHERE MINOR DISCREPANCIES OCCUR BETWEEN INFORMATION CONTAINED IN THE DRAWINGS AND FIELD CONDITIONS, ADJUST DIMENSIONS, ELEVATIONS OR DETAILS, WITH THE APPROVAL OF THE ENGINEER, SO AS TO BEST ACCOMPLISH THE DESIGN INTENTION.

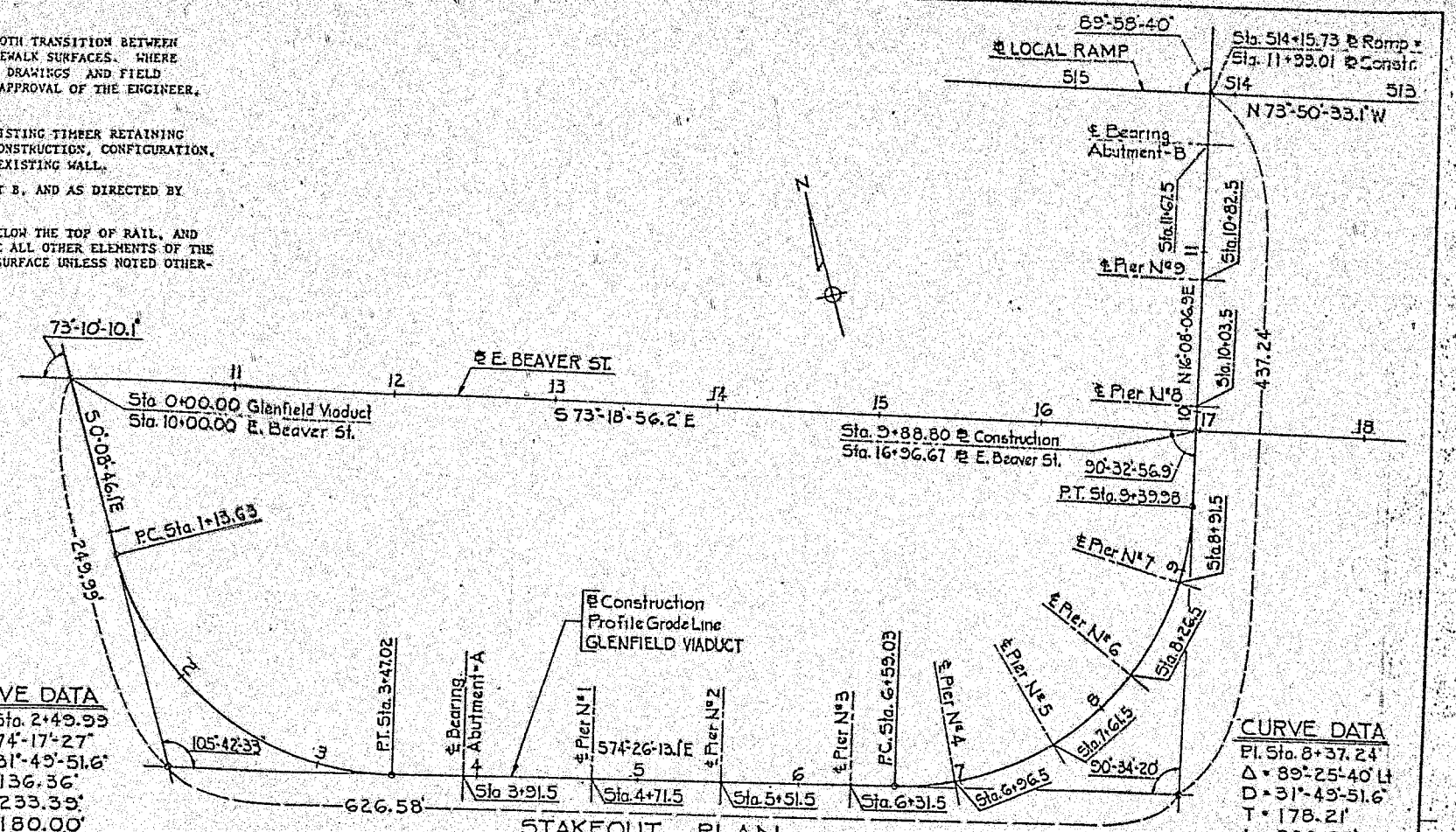
AT PIER 8, PROVIDE SUPPORT FOR THE REMAINING PORTIONS OF THE EXISTING TIMBER RETAINING WALL AS NEEDED, AND CONSTRUCT NEW RETAINING WALLS OF SIMILAR CONSTRUCTION, CONFIGURATION, APPEARANCE AND SERVICEABILITY TO CLOSE OPENINGS CREATED IN THE EXISTING WALL.

PROVIDE TEMPORARY SUPPORT OF EMBANKMENTS AT PIER 8 AND ABUTMENT B, AND AS DIRECTED BY THE ENGINEER.

REMOVE THE EXISTING PIER ADJACENT TO THE RAILROAD TO A LEVEL BELOW THE TOP OF RAIL, AND PATCH THE EXPOSED SURFACE TO PROVIDE A NEAT APPEARANCE. REMOVE ALL OTHER ELEMENTS OF THE EXISTING BRIDGE TO A LEVEL TWO FEET BELOW THE FINISHED GROUND SURFACE UNLESS NOTED OTHERWISE OR DIRECTED OTHERWISE BY THE ENGINEER.

STAIR TOWER:

FOR ADDITIONAL GENERAL NOTES, SEE SHEET NO. 33.



STAKEOUT PLAN
No Scale

CURVE DATA
P.I. Sta. 2+49.99
Δ = 74°-17'-27"
D = 31°-49'-51.6"
T = 136.36'
L = 233.39'
R = 180.00'

CURVE DATA
P.I. Sta. 8+37.24'
Δ = 89°-25'-40" Lt
D = 31°-49'-51.6"
T = 178.21'
L = 280.95'
R = 180.00'

SUMMARY OF QUANTITIES

ITEM	ITEM N°	UNIT	ABUT A	ABUT B	PIER-1	PIER-2	PIER-3	PIER-4	PIER-5	PIER-6	PIER-7	PIER-8	PIER-9	SUPERSTR	TOTAL
Bridge Structure As Designed		L.S.													L.S.
Class 3 Excavation		C.Y.	436	1265	74	86	87	81	75	64	75	112	49	—	2404
Cast In Place Cement Concrete Side Slope Wall		S.Y.	—	485	—	—	—	—	—	—	—	—	—	—	485
Membrane Waterproofing		S.Y.	—	2	—	—	—	—	—	—	—	—	—	—	2
No. 57 Coarse Aggregate		C.Y.	24	29	—	—	—	—	—	—	—	—	—	—	53
2" Conduit In Structure		L.F.	—	—	—	—	—	—	—	—	—	—	—	770	770
Class AAA Cement Concrete		C.Y.	—	—	—	—	—	—	—	—	—	—	—	721	721
Class AA Cement Concrete		C.Y.	26	37	—	—	—	—	—	—	—	—	—	196	259
Class A Cement Concrete		C.Y.	245	363	48	53	64	66	68	70	74	129	74	—	1254
Lighting Pole Anchorage		Ea.	—	—	—	—	—	—	—	—	—	—	—	7	7
Select Borrow Excavation, Structure Backfill		C.Y.	538	903	44	55	55	49	44	34	44	58	16	—	1840
Reinforcement Bars		Lbs.	20825	18556	8387	9524	9248	9608	10255	10332	15297	19162	15241	—	146565
Reinforcement Bars, Epoxy Coated		Lbs.	3243	2769	—	—	—	—	—	—	—	—	—	—	6012
Steel Beam Test Piles, HP12x53		L.F.	50	—	—	—	—	—	—	—	—	—	—	231895	237907
Steel Beam Test Piles, HP12x74		L.F.	47	—	43	40	39	39	40	38	37	37	11	—	50
Steel Beam Bearing Piles, HP12x53	1005-1103	L.F.	2040	—	—	—	—	—	—	—	—	—	—	—	371
Steel Beam Bearing Piles, HP12x74	1005-1104	L.F.	480	—	323	365	356	356	365	351	486	592	144	—	2040
Steel Beam Pile Tip Reinforcement HP12x53	1005-1153	Ea.	41	—	—	—	—	—	—	—	—	—	—	—	3888
Steel Beam Pile Tip Reinforcement HP12x74	1005-1154	Ea.	11	—	10	10	10	10	10	10	14	17	14	—	41
Parapet Protective Fence Steel		L.F.	—	—	—	—	—	—	—	—	—	—	—	—	116
Sidewalk Protective Fence Steel		L.F.	—	—	—	—	—	—	—	—	—	—	—	78	78
Class C Cement Concrete	1001-0020	C.Y.	—	26	—	—	—	—	—	—	—	—	—	760	760
Protective Coating for Reinf. Concrete Surface		S.Y.	—	—	—	—	—	—	—	—	—	—	—	—	26
Armored Preformed Neoprene Compression Dam 1" Mov.		L.F.	—	—	—	—	—	—	—	—	—	—	—	3416	3416
Armored Preformed Neoprene Compression Dam 1½ Mov.		L.F.	—	—	—	—	—	—	—	—	—	—	—	35	35
Armored Preformed Neoprene Compression Dam 2" Mov.		L.F.	—	—	—	—	—	—	—	—	—	—	—	70	70
Armored Preformed Neoprene Compression Dam 2½ Mov.		L.F.	—	—	—	—	—	—	—	—	—	—	—	35	35
Downspouting		L.F.	4	—	10	—	19	—	25	—	29	36	22	95	221
Fabricated Structural Steel		Lbs.	—	—	—	—	—	—	—	—	—	—	—	733960	733960
Scupper		Ea.	—	—	—	—	—	—	—	—	—	—	—	7	7
Stair Tower		L.S.	(For Quantities, See Sheet No. 34)											—	L.S.
Removal Of Existing Bridge	1018-0001	L.S.												—	L.S.
Electrical Work		L.S.	(For Quantities See Sheet 34)											—	L.S.

CERTIFIED CORRECT PLANS
Engineer
Approved by
PENNA. PUBLIC UTILITY COMMISSION
Attest:
Secretary
MAR 5 1987

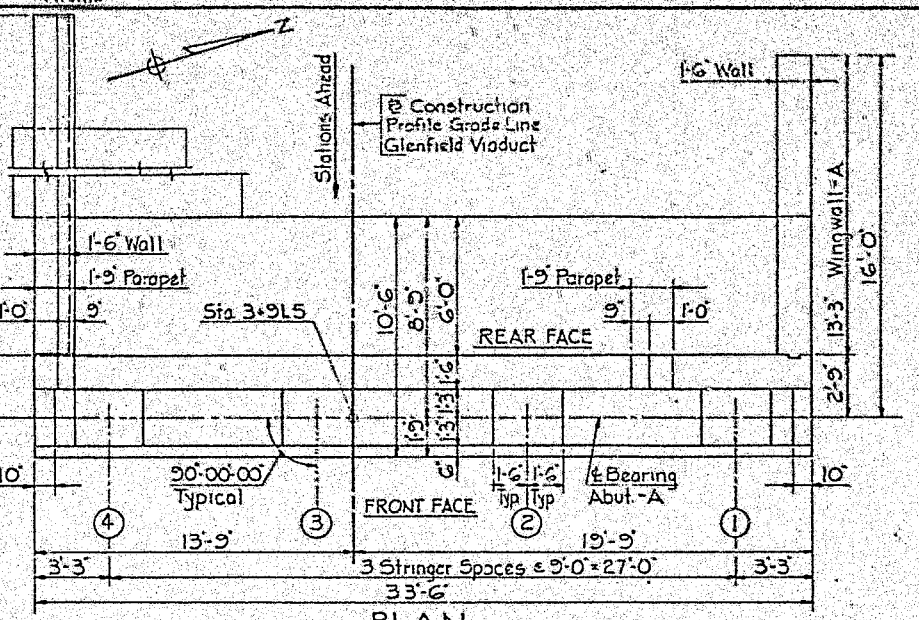
Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
GENERAL NOTES & STAKEOUT PLAN

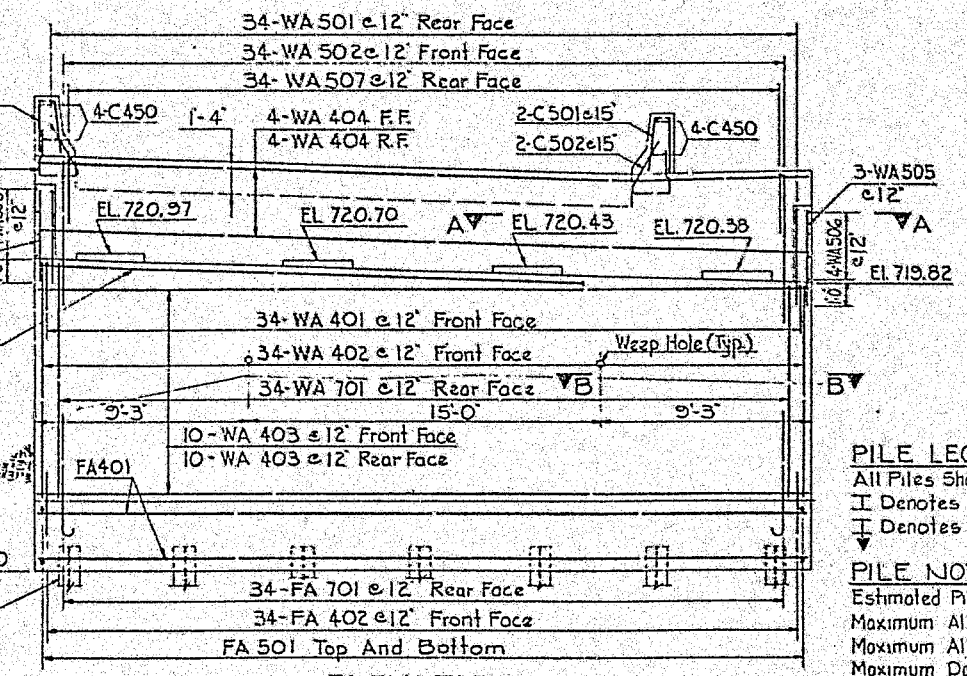
RECOMMENDED _____
BRIDGE ENGINEER

SHEET 2 OF 32
S-16201



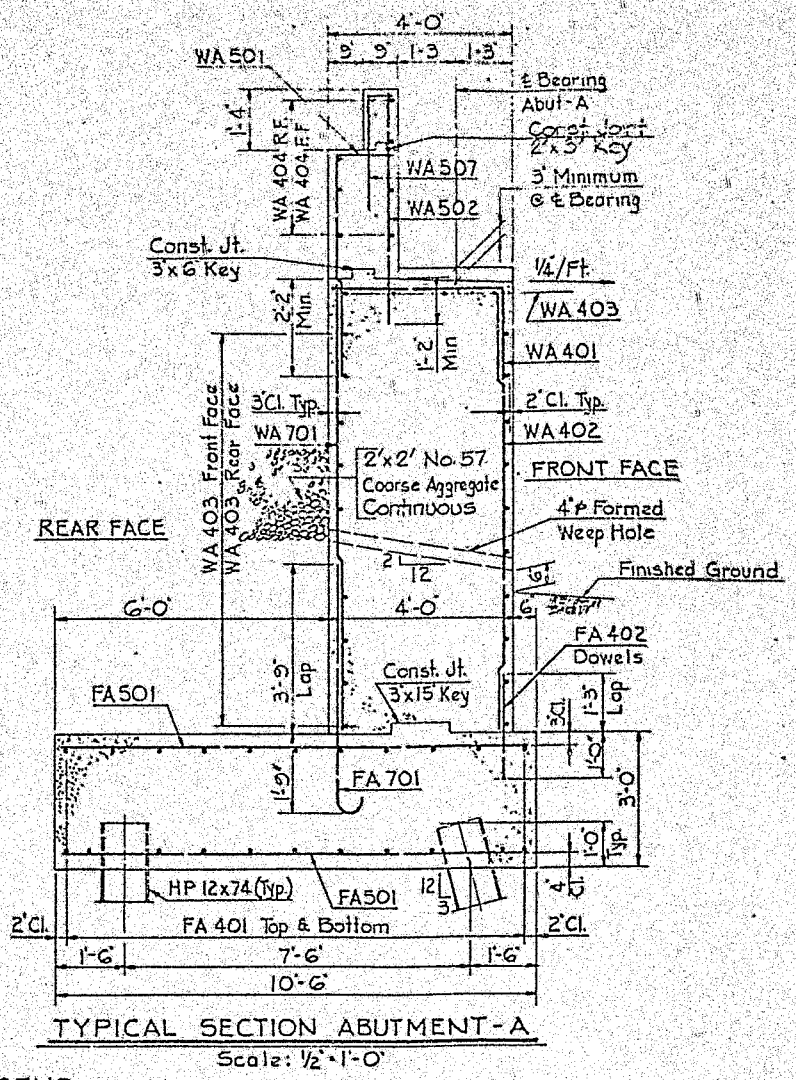
PLAN

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



ELEVATION

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



TYPICAL SECTION ABUTMENT-A

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

PILE LEGEND

All Piles Shall Be HP12x74

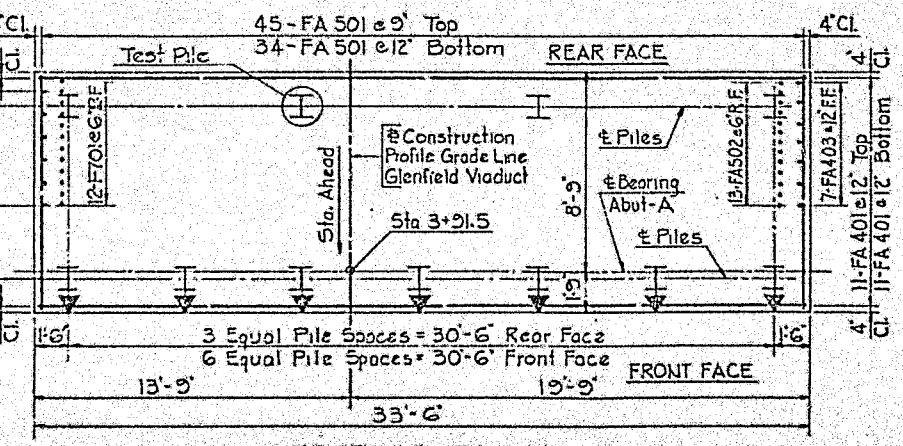
I Denotes Plumb Piles

I Denotes Battered Piles 3:12

PILE NOTES

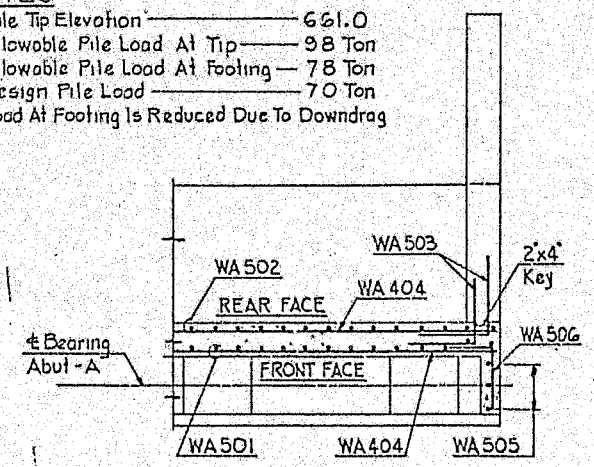
Estimated Pile Tip Elevation	661.0
Maximum Allowable Pile Load At Tip	98 Ton
Maximum Allowable Pile Load At Footing	78 Ton
Maximum Design Pile Load	70 Ton

Allowable Load At Footing Is Reduced Due To Downdrag



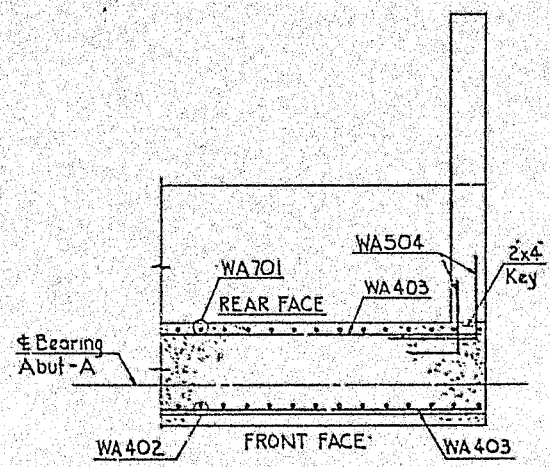
FOOTING PLAN

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



SECTION A-A

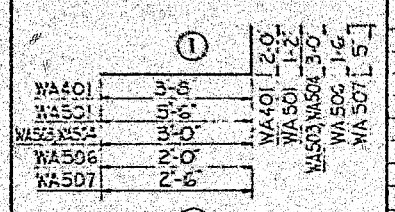
Scale: 1/4" = 1'-0"

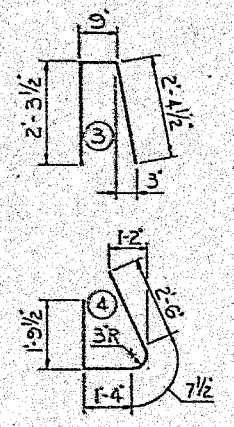


SECTION B-B

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

BAR TYPES





BAR SCHEDULE

MARK	SIZE	TYPE	NO.	LENGTH	REMARKS
FA401	#4	Str.	22	10'-2"	
FA402	#4	Str.	34	2'-3"	
FA403	#4	Str.	7	2'-3"	
FA501	#5	Str	79	33'-2"	
FA502	#5	2	13	4'-6"	
FA601	#6	Str.	6	33'-2"	
FA602	#6	Str	12	10'-2"	
FA701	#7	2	34	6'-7"	
WA401	#4	1	34	5'-8"	
WA402	#4	Str.	34	9'-3" To 10'-4"	Vary By 3/8" (+)
WA403	#4	Str.	24	32'-2"	
* WA404	#4	Str.	10	32'-2"	
* WA501	#5	1	34	6'-8"	
* WA502	#5	Str.	34	5'-10"	
WA503	#5	1	22	6'-0"	
* WA504	#5	1	8	6'-0"	
* WA505	#5	Str.	6	4'-2"	
* WA506	#5	1	8	3'-6"	
* WA507	#5	1	34	2'-11"	
WA701	#7	Str.	34	9'-3" To 10'-4"	Vary By 3/8" (+)
* C450	#4	Str.	8	1'-2"	
* C501	#5	3	4	5'-5"	
* C502	#5	4	4	6'-3"	

* Denotes Epoxy Coated Bars.

CERTIFIED CORRECT PLANS

Donald R. Fleisher — Engineer

B. P. Richmond — Director

Approved by PENNA. PUBLIC UTILITY COMMISSION

Attest: — Secretary

MAR 5 1987

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

Commonwealth of Pennsylvania

DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY

GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67

10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE

ABUTMENT A PLAN, ELEV, & SECTIONS

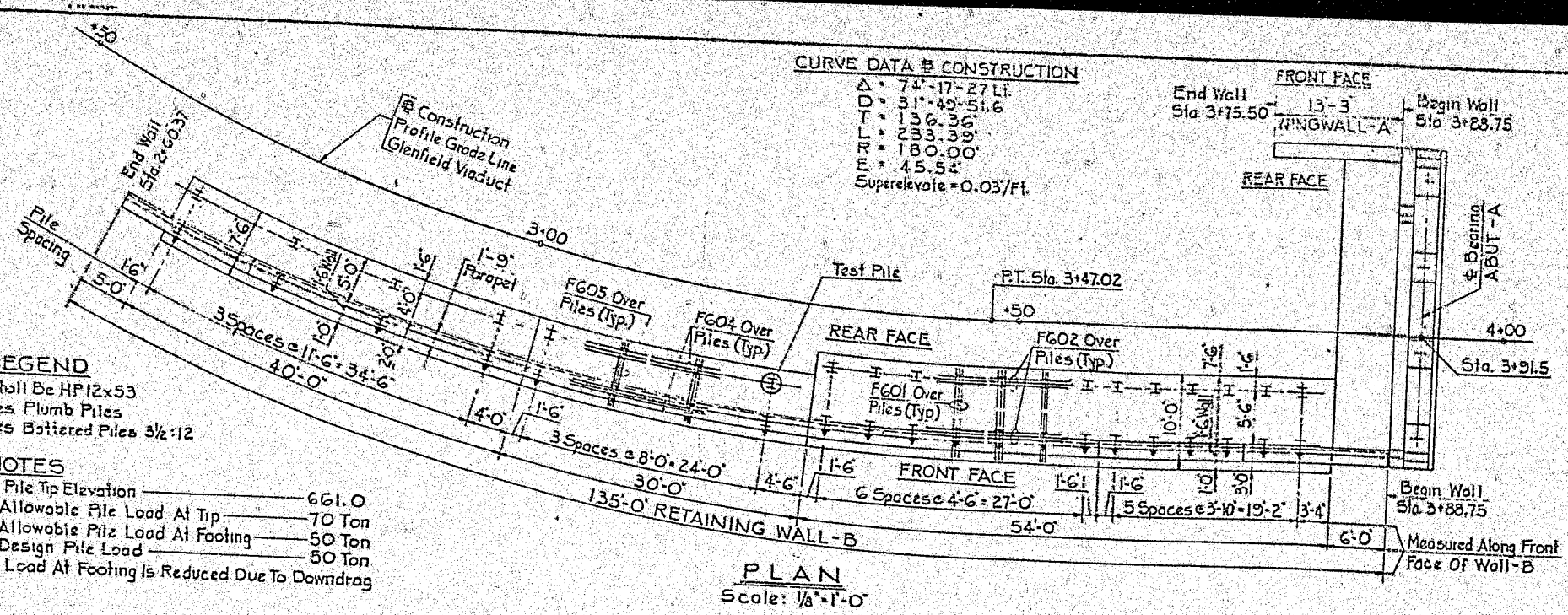
RECOMMENDED _____

BRIDGE ENGINEER

SHEET 3 OF 39

S-16201

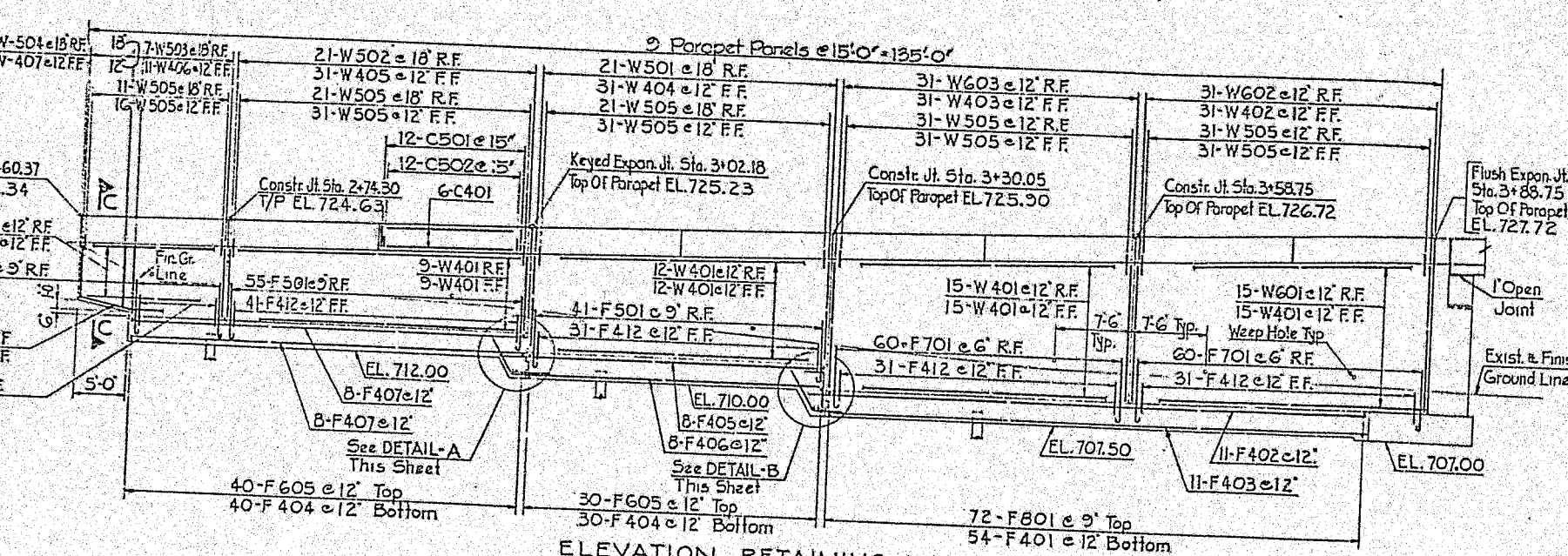
CURVE DATA & CONSTRUCTION
Δ = 74°-17'-27 Lt.
D = 31°-49'-51.6
T = 136.36'
L = 233.39'
R = 180.00'
E = 45.54'
Superelevate = 0.03'/Ft.



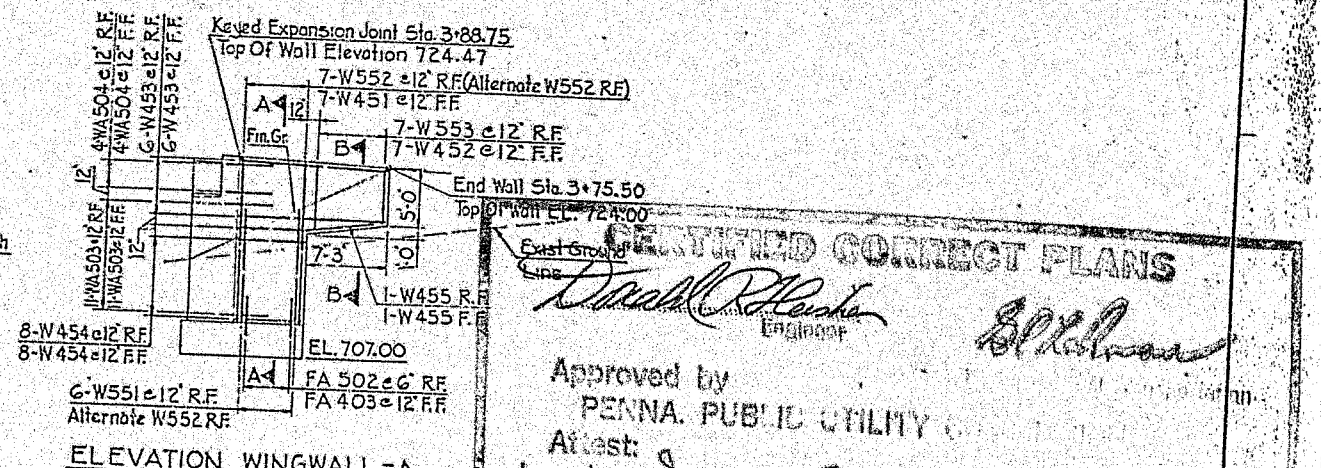
PLAN
Scale: 1/8"=1'-0"

LEGEND
s Shall Be HP12x53
piles Plumb Piles
piles Battered Piles 3½:12

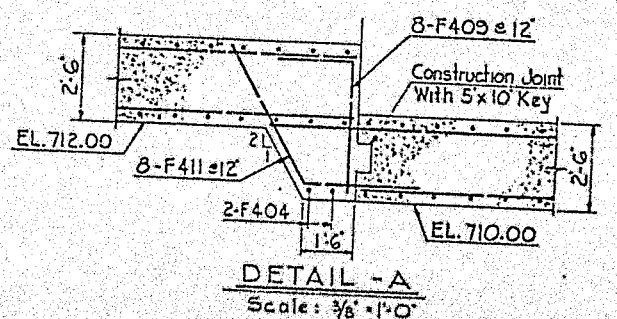
NOTES
ed Pile Tip Elevation ——— 661.0
m Allowable Pile Load At Tip ——— 70 Ton
n Allowable Pile Load At Footing ——— 50 Ton
m Design Pile Load ——— 50 Ton
le Load At Footing Is Reduced Due To Downdrag



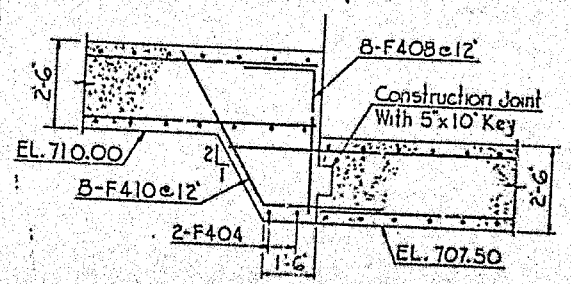
ELEVATION RETAINING WALL-B
Scale: 1/8"=1'-0"



ELEVATION WINGWALL-A
Scale: 1/8"=1'-0"



DETAIL-A
Scale: 3/8"=1'-0"



DETAIL-B
Scale: 3/8"=1'-0"

NOTE:
For Sections A-A, B-B, C-C And Typical Wall Sections, See Sheet No 5

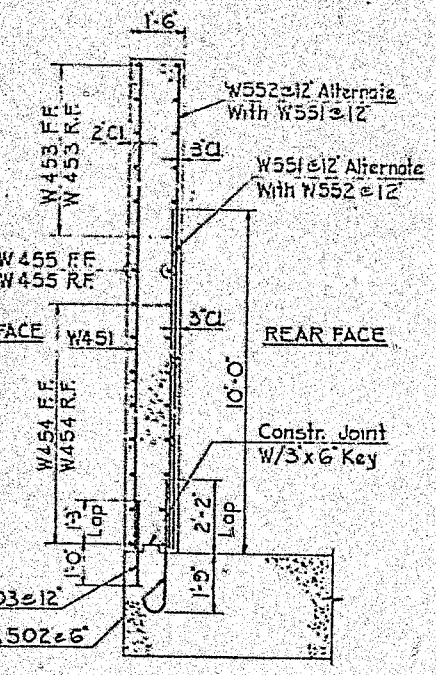
CERTIFIED CORRECT PLANS
Darrell R. Reuska
ENGINEER
Approved by
PENNA. PUBLIC UTILITY
Attest:
Secretary

Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				MAR 5 1987

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

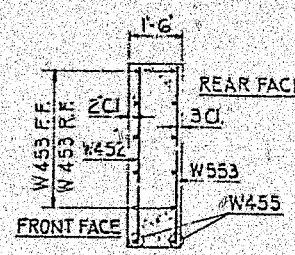
ALLEGHENY COUNTY
GLENFIELD VIADUCT
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
WALLS A & B, PLAN & ELEVATION

RECOMMENDED _____ SHEET 4 OF 39



SECTION A-A

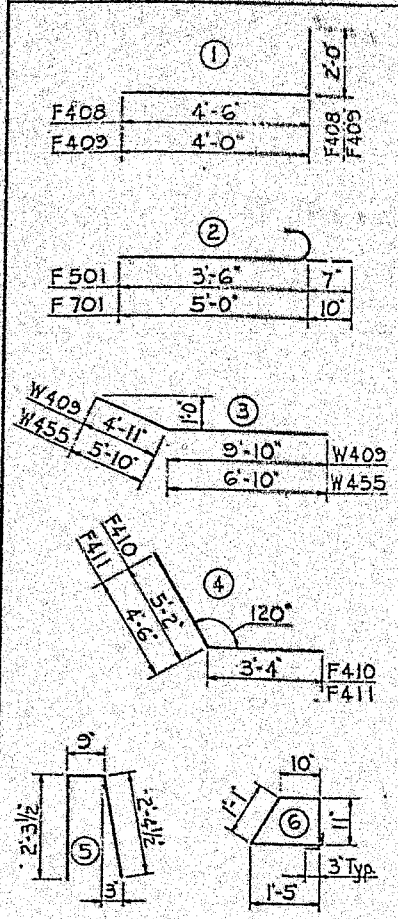
Scale: 3/8" = 1'-0"



SECTION B-B

Scale: 3/8" = 1'-0"

BAR TYPES

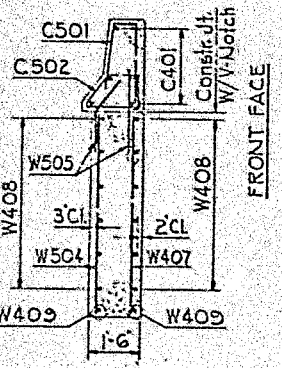


BAR SCHEDULE

MARK	SIZE	TYPE	NO.	LENGTH	REMARKS
F401	#4	Str.	54	9'-8"	
F402	#4	Str.	11	56'-2"	
F403	#4	Str.	11	55'-4"	
F404	#4	Str.	74	7'-2"	
F405	#4	Str.	8	32'-0"	
F406	#4	Str.	8	31'-2"	
F407	#4	Str.	16	38'-8"	
F408	#4	1	8	6'-6"	
F409	#4	1	8	6'-0"	
F410	#4	4	8	8'-6"	
F411	#4	4	8	7'-10"	
F412	#4	Str.	145	2'-3"	
F501	#5	2	111	3'-9"	
F601	#6	Str.	72	9'-8"	
F602	#6	Str.	6	50'-0"	
F603	#6	Str.	6	26'-0"	
F604	#6	Str.	6	36'-6"	
F605	#6	Str.	94	7'-2"	
F701	#7	2	120	5'-10"	
F801	#8	Str.	72	9'-8"	
*C401	#4	Str.	54	14'-8"	
*C501	#5	5	108	5'-3"	
*C502	#5	6	108	4'-9"	

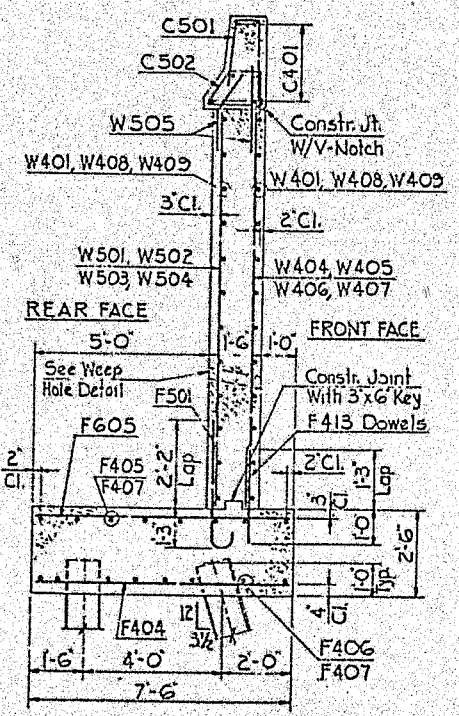
MARK	SIZE	TYPE	NO.	LENGTH	REMARKS
W401	#4	Str.	87	29'-8"	
W402	#4	Str.	31	13'-10" To 14'-11"	Vary By 7/16"
W403	#4	Str.	31	13'-0" To 13'-10"	Vary By 5/16"
W404	#4	Str.	51	9'-10" To 10'-6"	Vary By 1/4"
W405	#4	Str.	31	7'-4" To 7'-10"	Vary By 3/16"
W406	#4	Str.	11	7'-0"	
W407	#4	Str.	5	5'-6" To 6'-6"	Vary By 3"
W408	#4	Str.	12	14'-8"	
W409	#4	3	2	14'-9"	
W451	#4	Str.	7	14'-1" To 14'-4"	Vary By 1/2"
W452	#4	Str.	7	4'-10" To 6'-0"	Vary By 2 7/8"
W453	#4	Str.	12	13'-0"	
W454	#4	Str.	16	5'-8"	
W455	#4	3	2	12'-8"	
W501	#5	Str.	21	9'-10" To 10'-6"	Vary By 3/8"
W502	#5	Str.	21	7'-4" To 7'-10"	Vary By 1/4"
W503	#5	Str.	7	7'-0"	
W504	#5	Str.	4	5'-6" To 6'-6"	Vary By 4"
*W505	#5	Str.	255	2'-6"	
W551	#5	Str.	6	10'-0"	
W552	#5	Str.	7	14'-1" To 14'-4"	Vary By 1/2"
W553	#5	Str.	7	4'-10 To 6'-0"	Vary By 2 7/8"
W601	#6	Str.	15	29'-8"	
W602	#6	Str.	31	13'-10" To 14'-11"	Vary By 7/16"
W603	#6	Str.	31	13'-0" To 13'-10"	Vary By 5/16"

* Denotes Epoxy Coated Bars



SECTION C-C

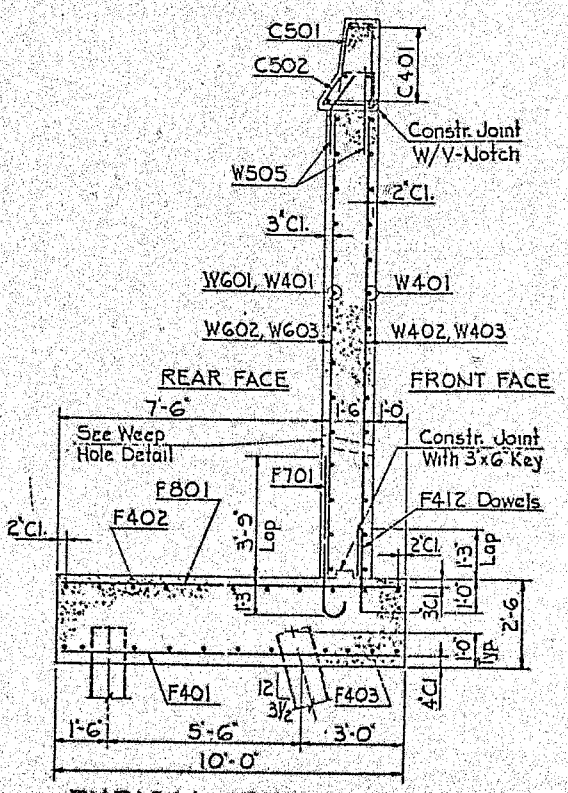
Scale: 3/8" = 1'-0"



TYPICAL SECTION

STA. 2+65.01 TO STA. 3+30.05

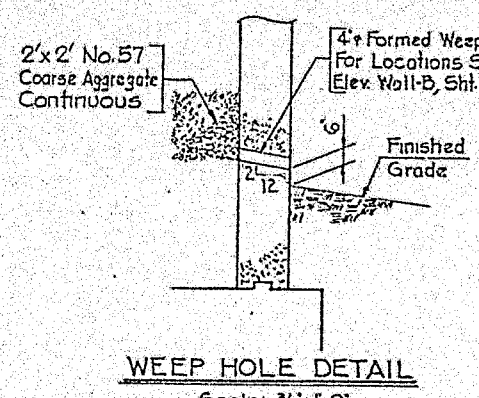
Scale: 3/8" = 1'-0"



TYPICAL SECTION

STA. 3+30.05 TO STA. 3+88.75

Scale: 3/8" = 1'-0"



WEEP HOLE DETAIL

Scale: 3/8" = 1'-0"

CERTIFIED CORRECT PLANS

Donald R. Heath
Engineer

Approved by
PENNA. PUBLIC UTILITY COMMISSION

Attest:

Secretary

MAR 5 1987

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

Commonwealth of Pennsylvania

DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE

WALLS A & B SECTIONS & SCHEDULE

RECOMMENDED _____

BRIDGE ENGINEER

SHEET 15 OF 32

S-16201

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

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

SECTION E-E
Scale 3/8" = 1'-0"

SECTION F-F
Scale 3/8" = 1'-0"

SECTION G-G
Scale 3/8" = 1'-0"

SECTION H-H
Scale 3/8" = 1'-0"

NOTE:
Max. Allowable Soil Pressure 3 Tons Per Sq.Ft
Max. Design Soil Pressure 2.1 Tons Per Sq.Ft.

Wingwall - D

Approved by

Engineer

Attest:

Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				

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Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
Secretary
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT

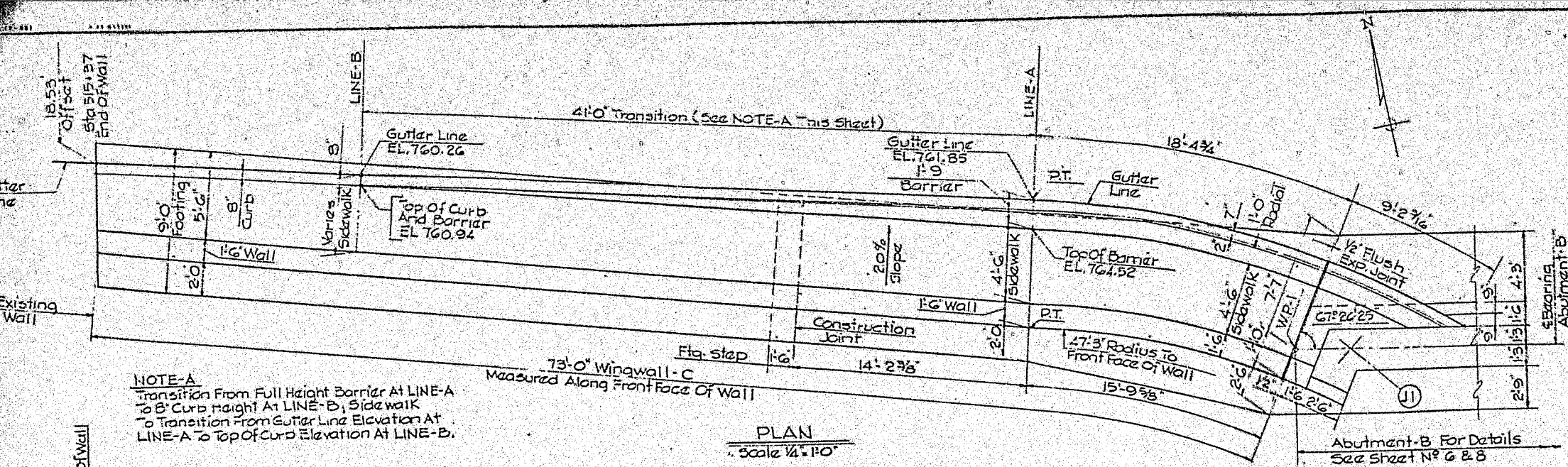
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
ABUT-B & WALL-D PLAN & ELEVATION

RECOMMENDED

BRIDGE ENGINEER

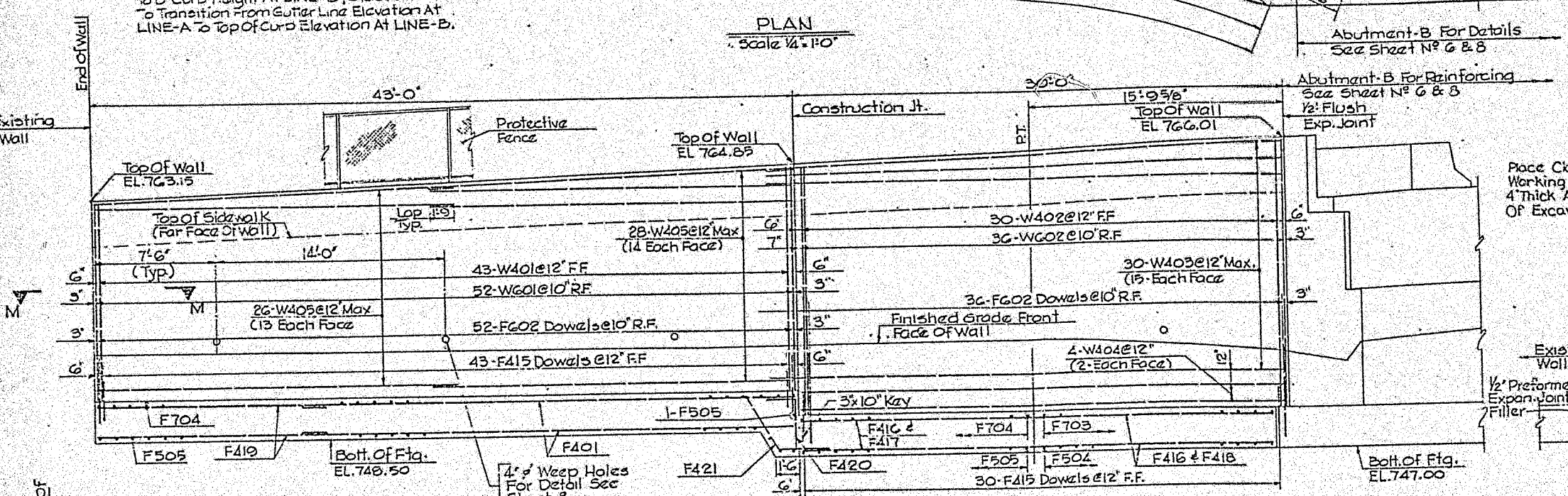
SHEET 12 OF 39

S-16201

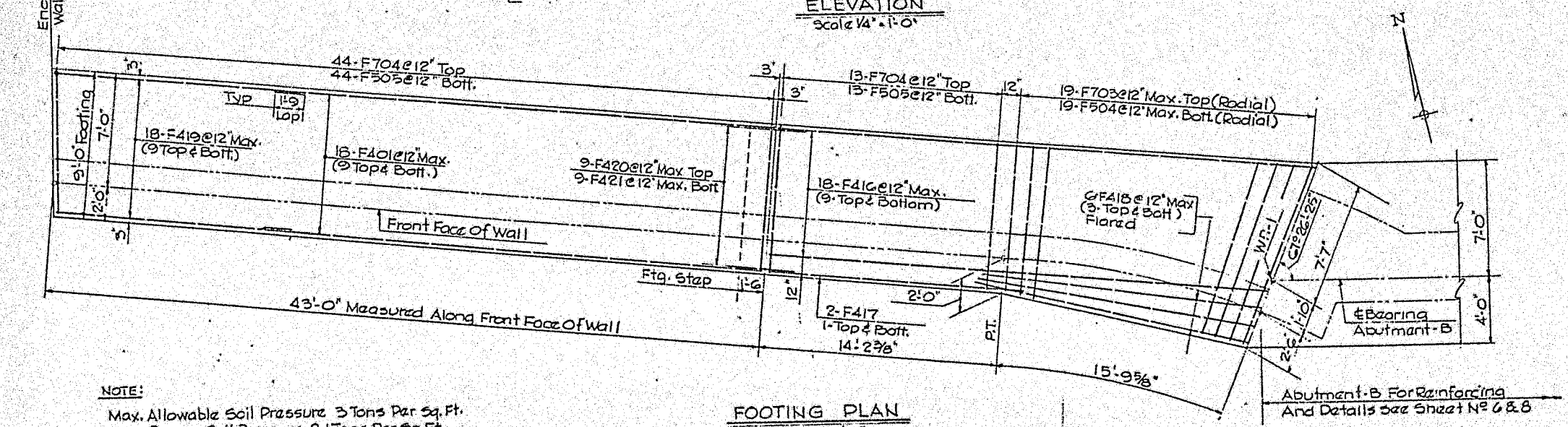


NOTE-A
Transition From Full Height Barrier At LINE-A To 8" Curb Height At LINE-B, Sidewalk To Transition From Gutter Line Elevation At LINE-A To Top Of Curb Elevation At LINE-B.

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

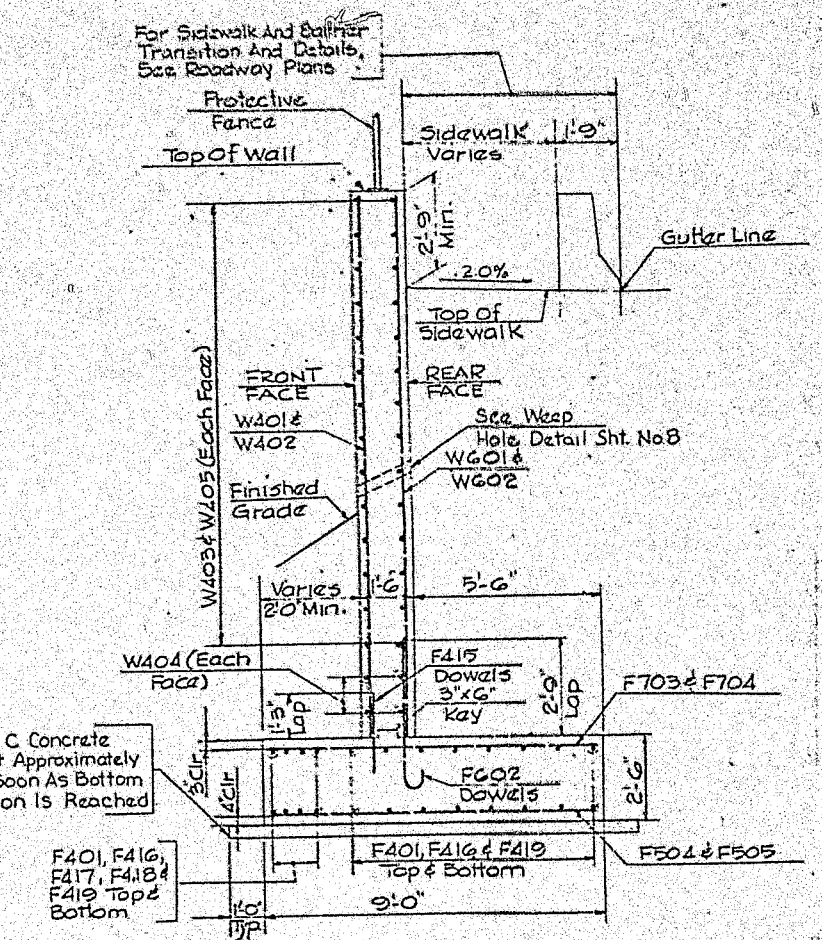


ELEVATION
Scale 1/4"=1'-0"



NOTE:
Max. Allowable Soil Pressure 3 Tons Per Sq. Ft.
Max. Design Soil Pressure 2.1 Tons Per Sq. Ft.

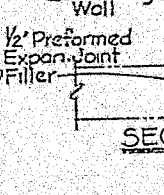
FOOTING PLAN
Scale 1/4"=1'-0"



TYPICAL SECTION
THRU WINGWALL-C
Scale 3/8"=1'-0"

Place Class C Concrete Working Mat Approximately 4" Thick As Soon As Bottom Of Excavation Is Reached

F401, F416, F417, F418 & F419 Top & Bottom



SECTION M-M
No Scale

CERTIFIED CORRECT PLANS
Donald R. Hercher
Engineer

Approved by PENNA. PUBLIC UTILITY COMMISSION
Attest:
Secretary

Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				

MAR 1987

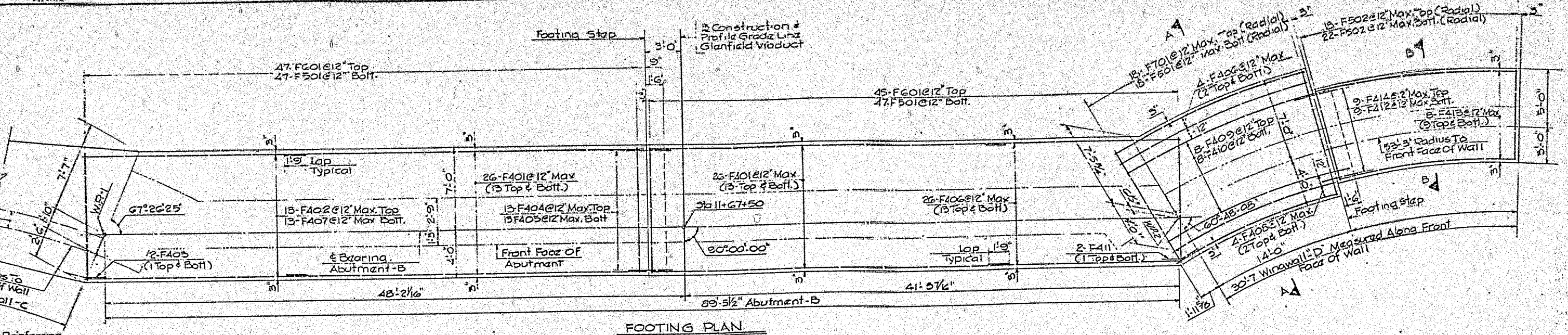
Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY GLENFIELD VIADUCT

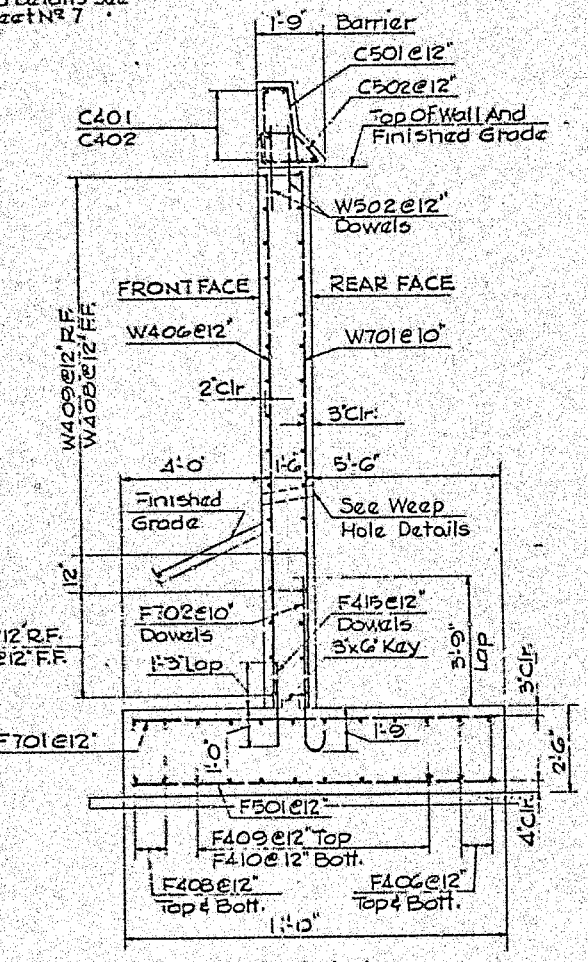
GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
WALL-C PLAN, ELEV. & SECTION

RECOMMENDED _____
BRIDGE ENGINEER

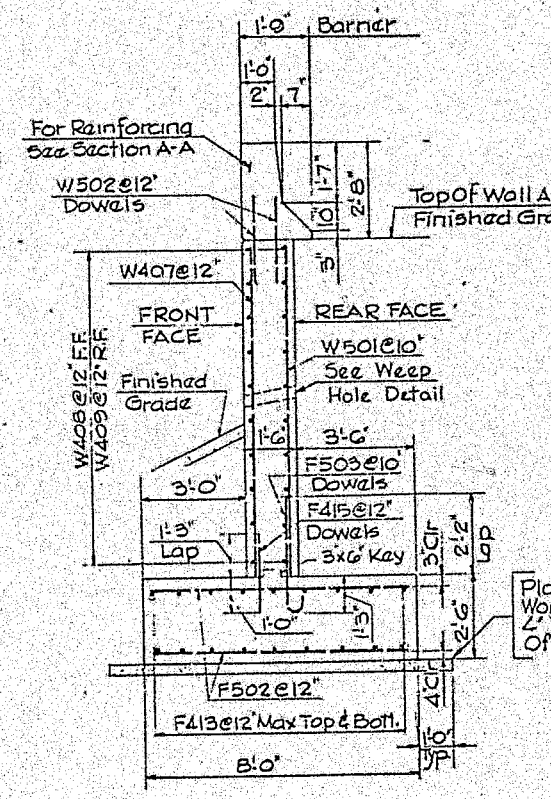
SHEET 7 OF 32
S-16201



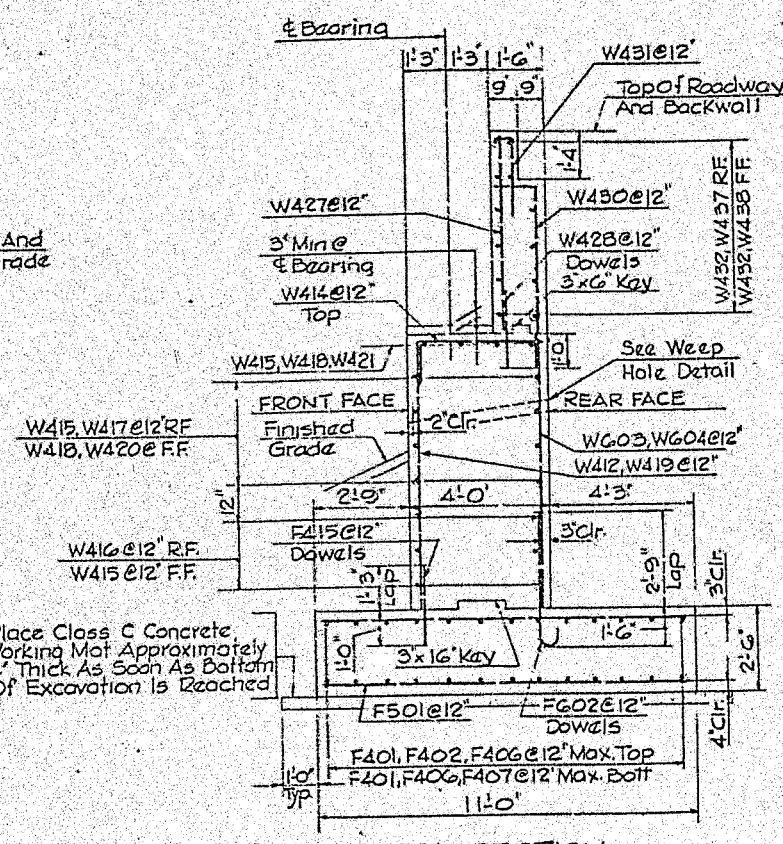
FOOTING PLAN
Scale 1/4" = 1'-0"



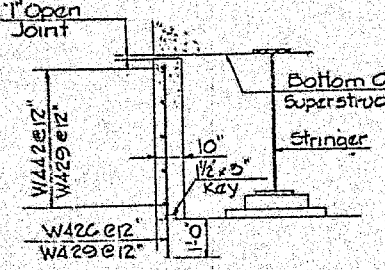
SECTION A-A
Scale 3/8" = 1'-0"



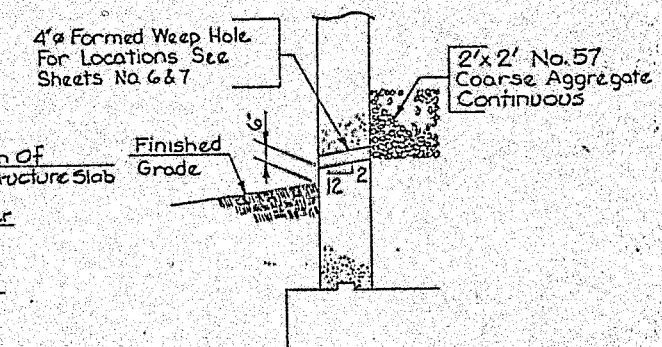
SECTION B-B
Scale 3/8" = 1'-0"



TYPICAL SECTION THRU ABUTMENT-B
Scale 3/8" = 1'-0"



SECTION J-J
Scale 3/8" = 1'-0"



WEEP HOLE DETAIL
Scale 3/8" = 1'-0"

CERTIFIED CORRECT PLANS
Donald R. Heisler Engineer
B. Richman Secretary of Transportation
Approved by PENNA. PUBLIC UTILITY COMMISSION
Attest:
MAR 5 1987

Mark	Description	By	Chk'd.	App'd.	Date

REVISIONS

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
ABUT.-B & WALL-D SECTIONS & DETAILS

RECOMMENDED _____
BRIDGE ENGINEER

SHEET 8 OF 32
S-16201

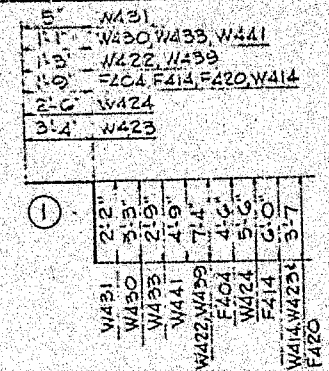
BAR SCHEDULE

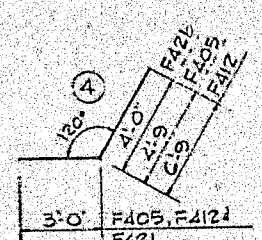
SIZE	TYPE	NUMBER ABUT-B	NUMBER WALL-C	NUMBER WALL-D	LENGTH	REMARKS
#4	Str.	52	15		30'-0"	
#4	Str.	13			20'-0"	
#4	3	2			3'-6"	
#4	1	13			6'-3"	
#4	2	13			7'-9"	
#4	Str			4	17'-6"	
#4	Str	13			18'-6"	
#4	Str.			4	14'-9"	
#4	Str.			8	17'-0 To 18'-9"	Vary 1 Ea By 3"
#4	Str.			8	15'-0 To 16'-9"	Vary 1 Ea By 3"
#4	3	2			3'-6"	
#4	4			9	9'-9"	
#4	Str			18	15'-1" To 17'-4"	Vary 2 Ea By 3"
#4	1			9	7'-9"	
#4	Str.	97	73	31	2'-9"	
#4	Str		15		30'-0 To 32'-4"	Vary 2 Ea By 3½
#4	Str.		2		15'-6"	
#4	Str.		6		17'-0"	
#4	Str		18		14'-3" To 14'-11"	Vary 2 Ea By 1"
#4	1		9		5'-3"	
#4	4		9		7'-0"	
#5	Str.	26		18	10'-6"	
#5	Str			40	7'-6"	
#5	2			20	4'-0"	
#5	Str.		9		8'-6 To 11'-6"	Vary 1 Ea By 2"
#5	Str.		58		8'-6"	
#6	Str	92			10'-6"	
#6	2	88	87		4'-11"	
#7	Str.			18	10'-6"	
#7	2			17	6'-4"	
#7	Str.		19		8'-6" To 11'-6"	Vary 1 Ea By 2"
#7	Str		57		8'-6"	
#4	Str.		43		11'-11" To 13'-8"	Vary 1 Ea By 1½"
#4	Str.		30		15'-0½ To 16'-3	Vary 1 Ea By 1½"
#4	Str		30		31'-6"	
#4	Str		4		29'-6"	
#4	Str		51		22'-3"	
#4	Str			14	12'-8" To 13'-2½"	Vary 1 Ea By ½"
#4	Str			17	9'-2" To 9'-10"	Vary 1 Ea By ½"
#4	Str.			20	16'-0"	
#4	Str.			20	16'-4"	
#4	Str			4	13'-8"	
#4	Str			4	14'-0"	
#4	Str	43			7'-0" To 8'-3¾"	Vary 1 Ea By 3/8"
#4	Str.	11			7'-0"	
#4	1	82			5'-4"	
#4	Str.	22			22'-0"	
#4	Str.	13			20'-0"	
#4	Str.	9			21'-0"	
#4	Str	17			23'-0"	
#4	Str.	40			5'-10¼ To 6'-8"	Vary 1 Ea By ¼"
#4	Str	12			20'-6"	
#4	Str.	4			19'-0" To 22'-0"	Vary 1 Ea By .2"
#4	1	16			6'-7"	
#4	1	8			7'-0"	
#4	1	7			8'-0"	
#4	7	7			4'-9"	
#4	Str	7			6'-9"	
#4	Str	108			5'-7"	

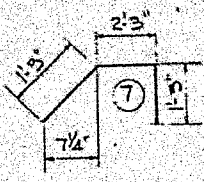
MARK	SIZE	TYPE	NUMBER ABUT-B	NUMBER WALL-C	NUMBER WALL-D	LENGTH	REMARKS
*W428	#4	Str.	108			2'-3"	
*W429	#4	Str	8			5'-5"	
*W430	#4	1	82			6'-4"	
*W431	#4	1	79			2'-7"	
*W432	#4	Str	24			22'-2"	
*W433	#4	1	6			3'-10"	
*W434	#4	3	4			3'-6"	
*W435	#4	3	2			2'-9"	
*W436	#4	Str.	5			5'-6"	
*W437	#4	Str.	12			21'-0"	
*W438	#4	Str.	12			24'-0"	
*W439	#4	1	6			8'-7"	
*W440	#4	Str.	6			7'-4"	
*W441	#4	1	6			5'-10"	
*W442	#4	Str.	5			3'-7"	
*W443	#4	8	4			3'-6"	
W501	#5	Str.			20	9'-3 To 9'-10⅛"	Vary 1 Ea. By 3/8"
*W502	#5	Str.			62	2'-6"	
*W503	#5	Str.	4			3'-3"	
W601	#6	Str.		52		12'-0" To 13'-7⅛"	Vary 1 Each By 3/8"
W602	#6	Str.		36		1'-5'-2 To 1'-6'-3⅛	Vary 1 Each By 3/8"
W603	#6	Str.	43			6'-11" To 8'-3⅛"	Vary 1 Each By 3/8"
W604	#6	Str.	44			5'-10¼ To 6'-9"	Vary 1 Each By ¼"
W701	#7	Str.			17	12'-8 To 13'-2"	Vary 1 Ea By 3/8"
*C401	#4	Str.			6	13'-8"	
*C402	#4	Str.			6	13'-2"	
*C403	#4	Str.	1			8'-5"	
*C404	#4	Str.	2			7'-4"	
*C405	#4	Str.	3			6'-0"	
*C406	#4	Str.	6			1'-2"	
*C501	#5	5			32	5'-3"	
*C502	#5	6			32	5'-3"	
*C503	#5	5	1			7'-9"	
*C504	#5	5	1			7'-3"	
*C505	#5	5	1			7'-1"	
*C506	#5	5	8			6'-11"	
*C507	#5	9	1			5'-8"	
*C508	#5	9	1			5'-0"	
*C509	#5	9	1			4'-6"	
*C510	#5	9	8			4'-2"	

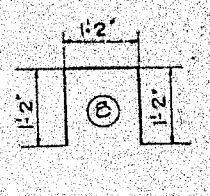
NOTE:
* Denotes Epoxy Coated Bars

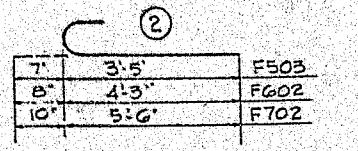
BAR TYPES

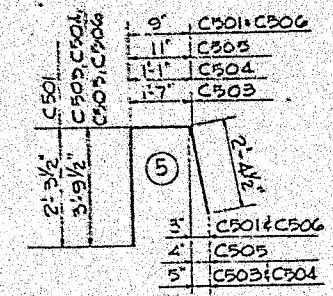


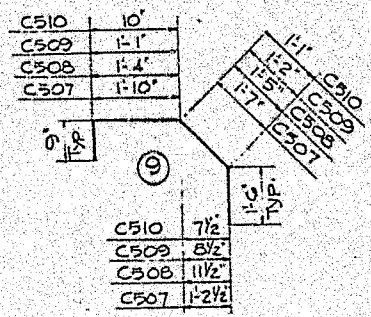


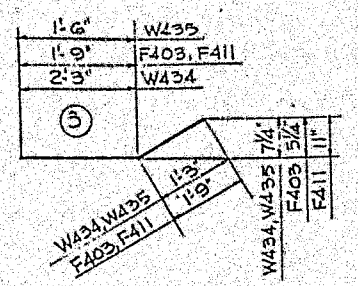


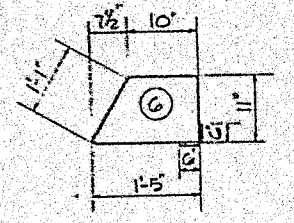




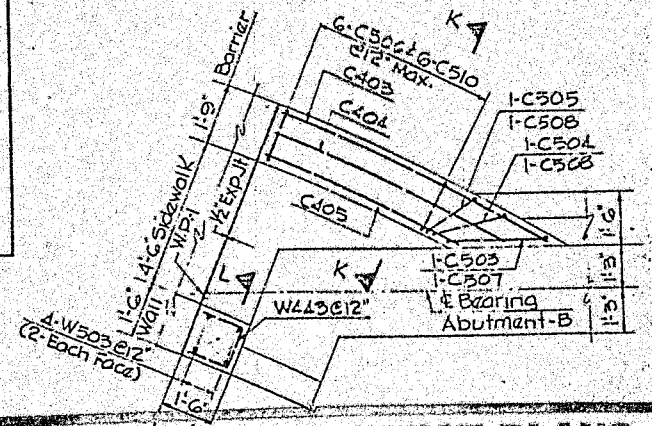


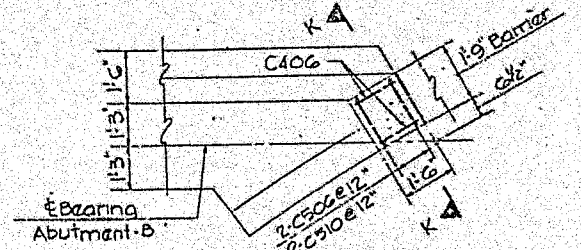




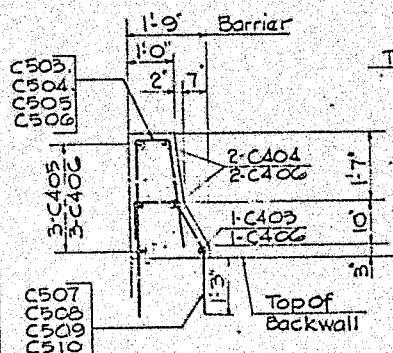


NOTE: All Bar Dimensions Are Out To Out

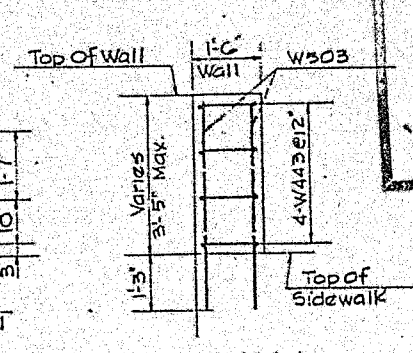




SECTION D-D
Scale ⅜"=1'-0"



SECTION K-K
Scale ½"=1'-0"



SECTION L-L
Scale ½"=1'-0"

CERTIFIED CORRECT PLANS
SECTION C-C PLANS
Scale ⅜"=1'-0"

Engineer

Approved by
PENNA. PUBLIC UTILITY COMMISSION

Attest:
Secretary

Mark	Description	By	Chk'd	App'd	Date
	REVISIONS				

MAR 15 1987

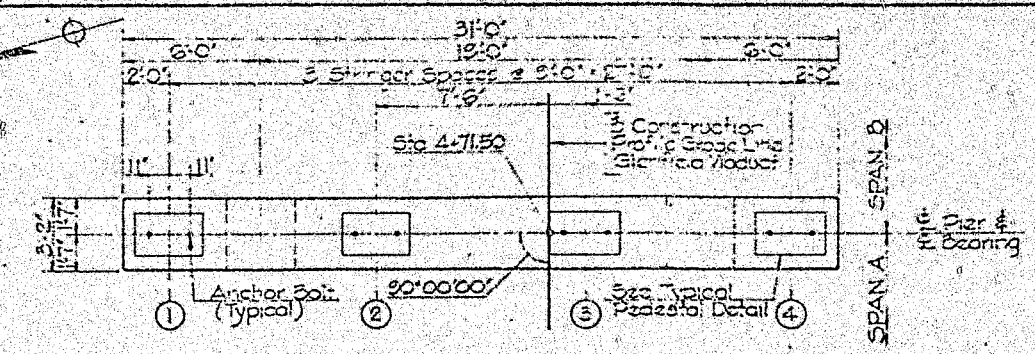
Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT

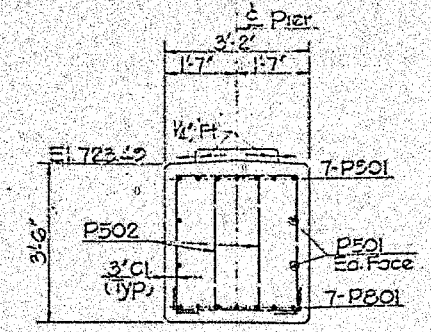
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
ABUT.-B & WALLS C & D DETAILS & SCHEDULE

RECOMMENDED
BRIDGE ENGINEER

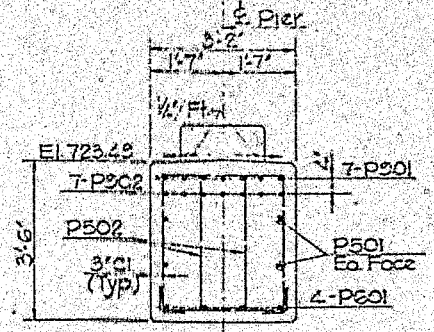
SHEET 2 OF 32
S-16201



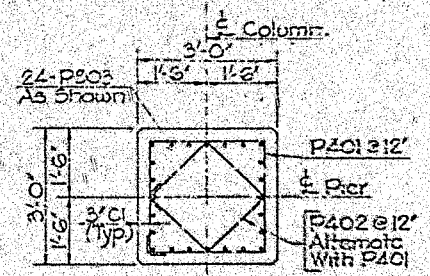
PLAN
Scale: ½"=1'-0"



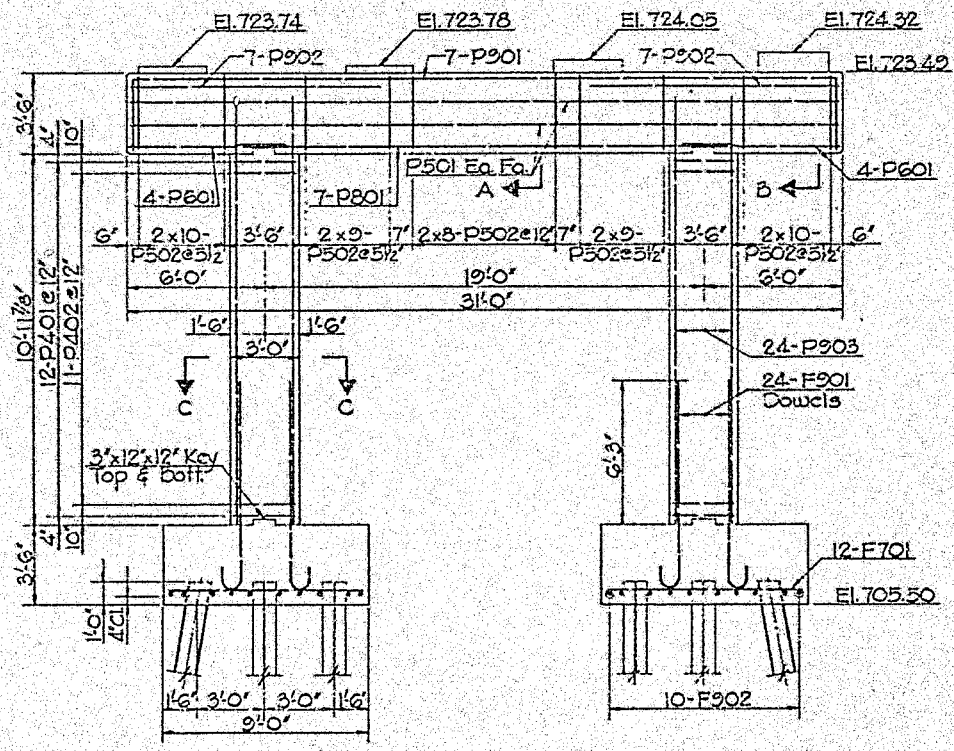
SECTION A-A
Scale: ½"=1'-0"



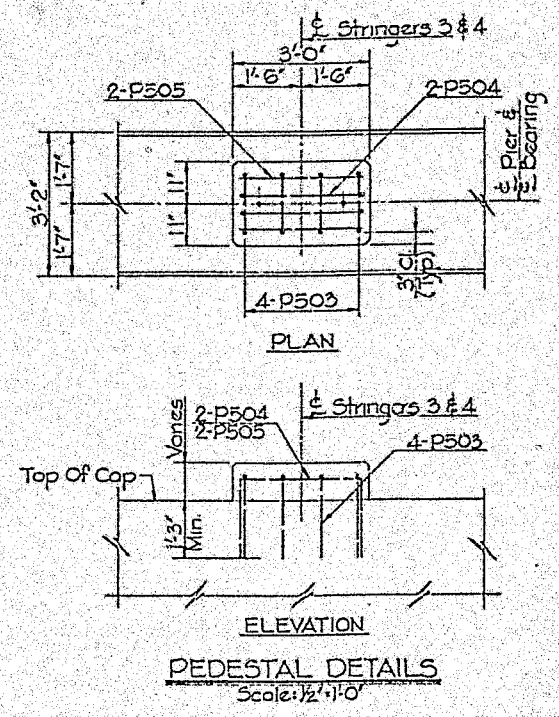
SECTION B-B
Scale: ½"=1'-0"



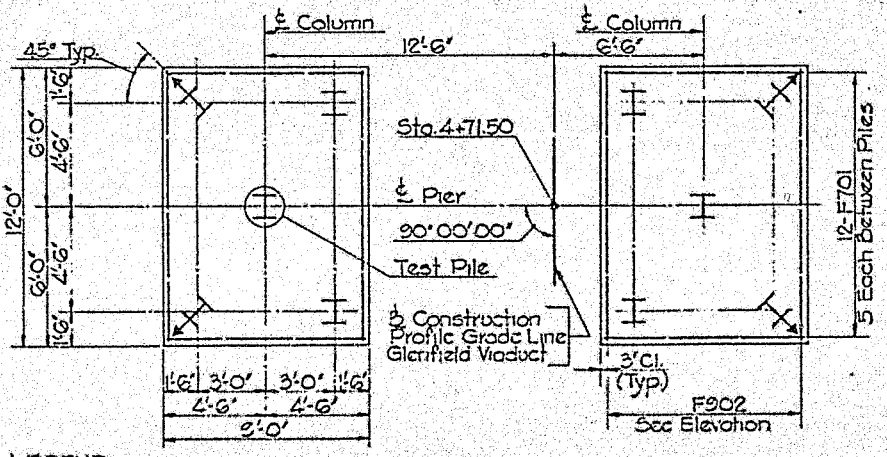
SECTION C-C
Scale: ½"=1'-0"



ELEVATION
Scale: ¼"=1'-0"



PEDESTAL DETAILS
Scale: ½"=1'-0"



FOOTING PLAN
Scale: ¼"=1'-0"

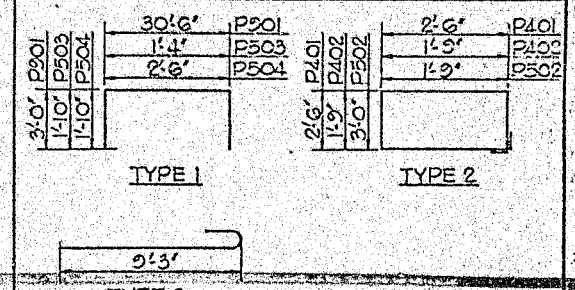
PILE NOTES
Maximum Allowable Pile Load 98 Tons
Maximum Design Pile Load 89 Tons
Estimated Pile Tip El. 664.00

E LEGEND
...ates Plumb Piles
...ates Battered Piles 3:12
Piles Shall Be HP 12x74

BAR SCHEDULE

MARK	SIZE	TYPE	NO.	LENGTH	REMARKS
P401	4	2	24	10'-5"	
P402	4	2	22	7'-9"	
P501	5	Str.	4	30'-6"	
P502	5	2	22	9'-8"	
P503	5	1	8	5'-0"	
P504	5	1	4	6'-2"	
P505	5	Str.	4	2'-6"	
P601	6	Str.	8	2'-3"	
P801	8	Str.	7	20'-11"	
P901	9	1	7	36'-6"	
P902	9	Str.	14	10'-9"	
P903	9	Str.	48	13'-6"	
F701	7	Str.	24	8'-6"	
F901	9	3	48	10'-6"	
F902	9	Str.	20	11'-6"	

BAR TYPES



CERTIFIED CORRECT PLANS

Engineer

Approved by
PENNA. PUBLIC UTILITY COMMISSION

Attest:

Secretary

MAR 5 1987

Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

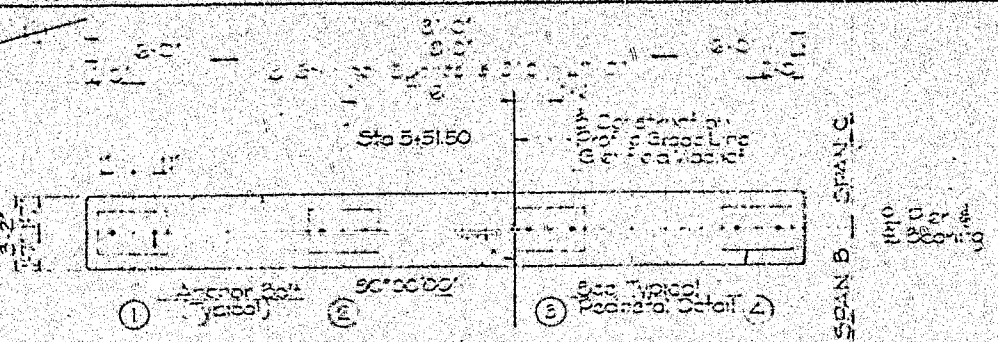
ALLEGHENY COUNTY
GLENFIELD VIADUCT
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
PIER NO. 1

RECOMMENDED

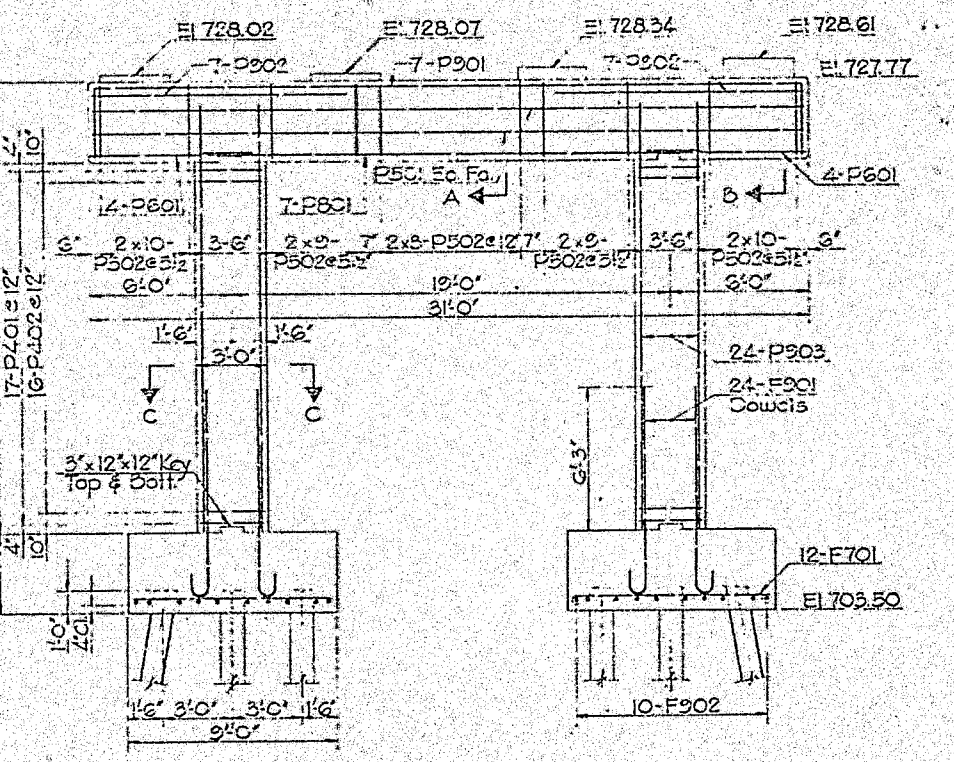
BRIDGE ENGINEER

SHEET 12 OF 39

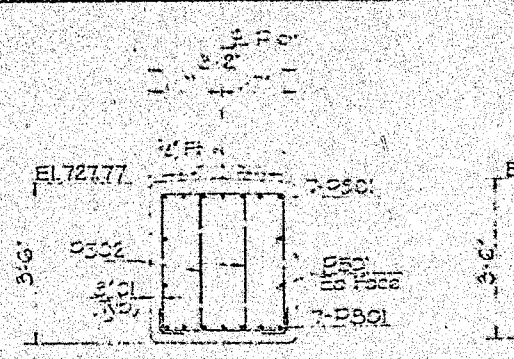
S-16201



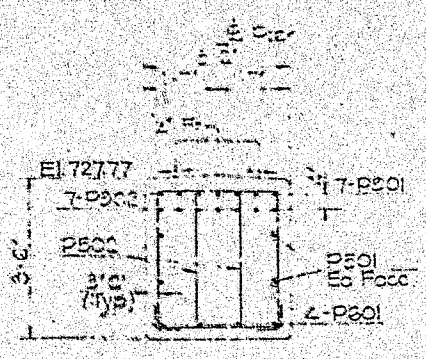
PLAN
Scale: 1/2"=1'-0"



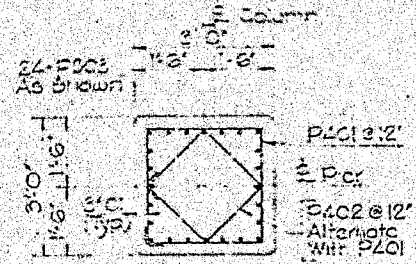
ELEVATION
Scale: 1/4"=1'-0"



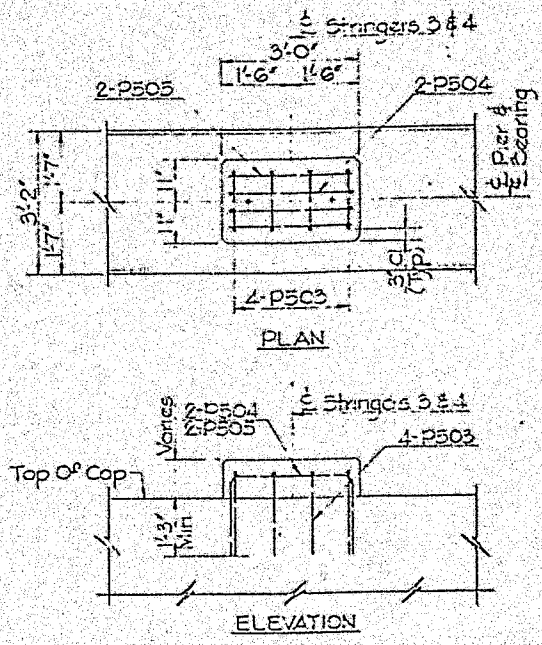
SECTION A-A
Scale: 1/2"=1'-0"



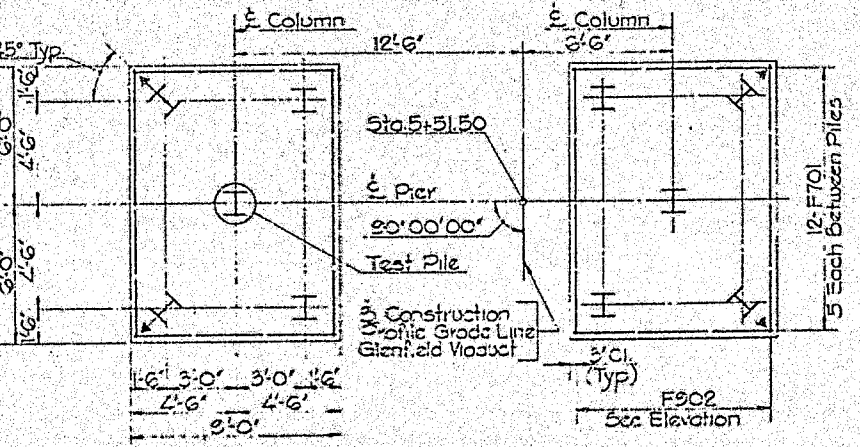
SECTION B-B
Scale: 1/2"=1'-0"



SECTION C-C
Scale: 1/2"=1'-0"



PEDESTAL DETAILS
Scale: 1/2"=1'-0"



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

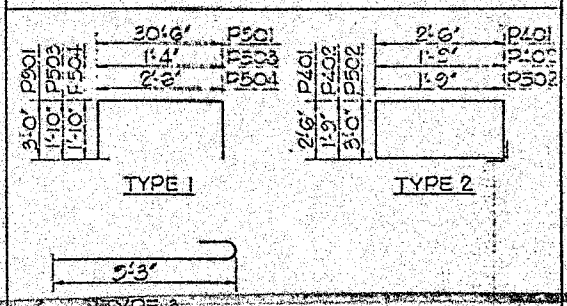
PILE NOTES
Maximum Allowable Pile Load 38 Tons
Maximum Design Pile Load 89 Tons
Estimated Pile Tip El. 665.00

LEGEND
Plumb Piles
Battered Piles 3:12
Shall Be HP12x74

BAR SCHEDULE

MARK	SIZE	TYPE	NO	LENGTH	REMARK
P401	4	2	34	10'-5"	
P402	4	2	32	7'-9"	
P501	5	Str	4	30'-6"	
P502	5	2	92	9'-8"	
P503	5	1	8	5'-0"	
P504	5	1	4	6'-2"	
P505	5	Str	4	2'-6"	
P601	6	Str	8	6'-9"	
P501	8	Str	7	20'-11"	
P801	8	1	7	36'-6"	
P902	9	Str	14	10'-5"	
P903	9	Str	28	19'-0"	
F701	7	Str	24	8'-6"	
F901	9	3	25	10'-6"	
F902	9	Str	20	11'-6"	

BAR TYPES



CERTIFIED CORRECT PLANS

Approved by PENNA. PUBLIC UTILITY COMMISSION

Attest:

MAR 5 1987

Mark	Description	By	Chk'd.	App'd.	Date

REVISIONS

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

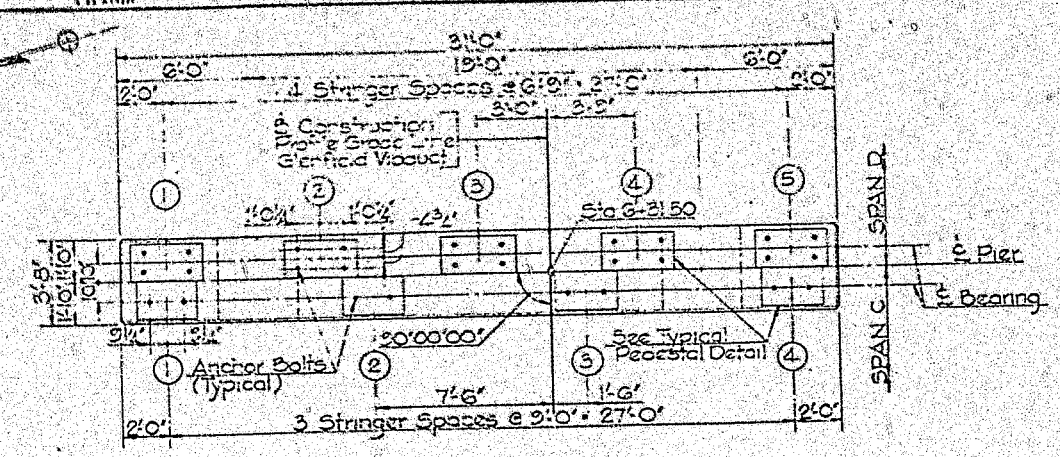
ALLEGHENY COUNTY
GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
PIER NO. 2

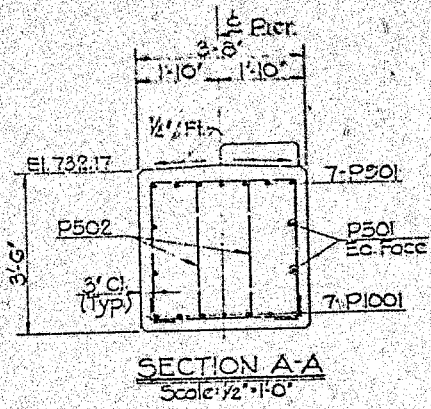
RECOMMENDED _____
BRIDGE ENGINEER

SHEET 11 OF 39

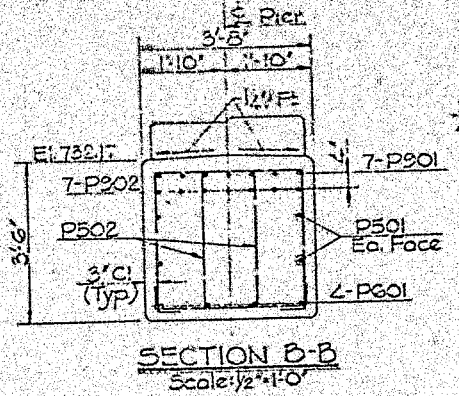
S-16201



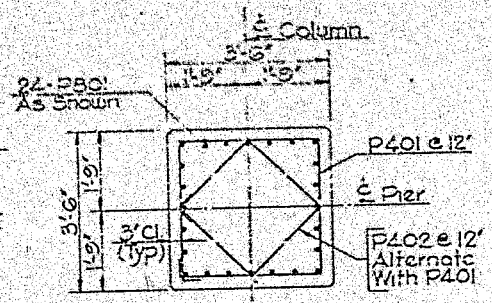
PLAN
Scale: ½"=1'-0"



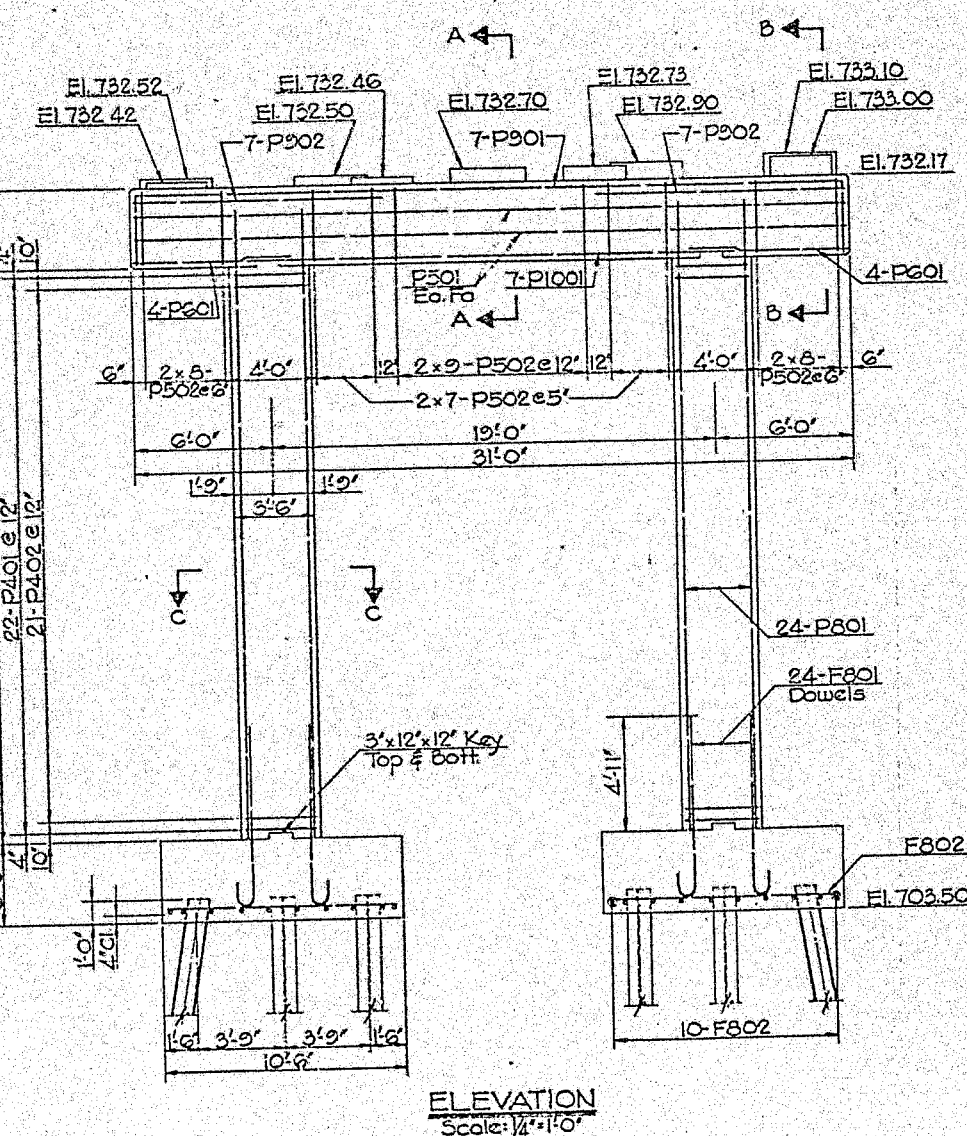
SECTION A-A
Scale: ½"=1'-0"



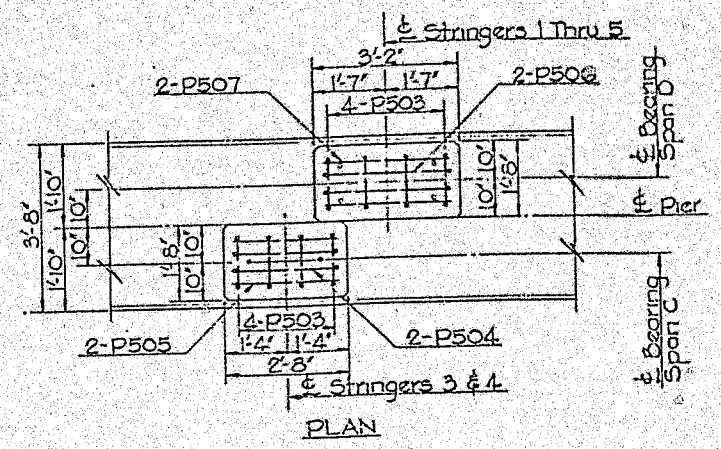
SECTION B-B
Scale: ½"=1'-0"



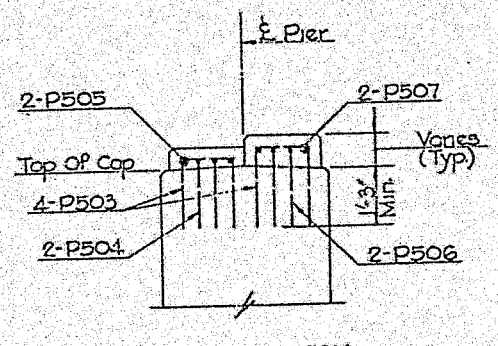
SECTION C-C
Scale: ½"=1'-0"



ELEVATION
Scale: ¼"=1'-0"

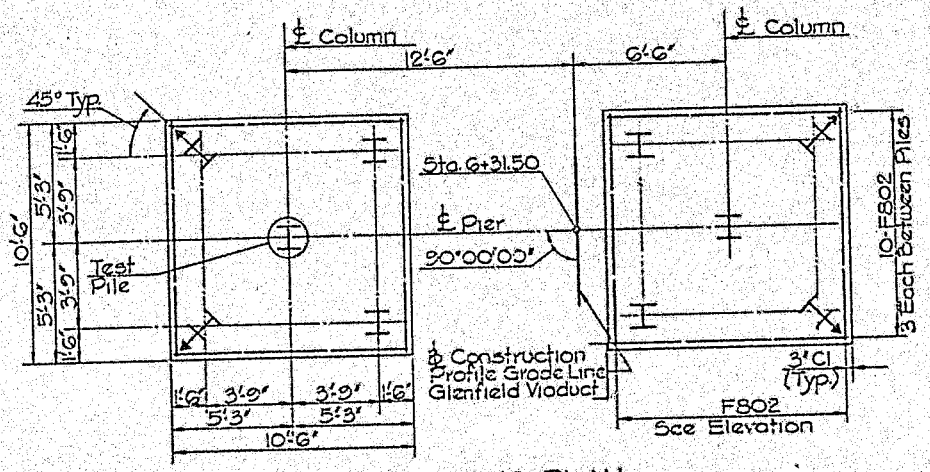


PLAN



TYPICAL SECTION

PEDESTAL DETAILS
Scale: ½"=1'-0"



FOOTING PLAN
Scale: ¼"=1'-0"

PILE LEGEND
- Denotes Plumb Piles
- Denotes Battered Piles 3:12
- All Piles Shall Be HP 12x74

PILE NOTES
- Maximum Allowable Pile Load 98 Tons
- Maximum Design Pile Load 84 Tons
- Estimate Pile Tip El 666.00

BAR SCHEDULE

MARK	SIZE	TYPE	NO.	LENGTH	REMARKS
P401	4	2	44	12'-6"	
P402	4	2	42	8'-5"	
P501	5	Str.	4	50'-6"	
P502	5	2	78	11'-2"	
P503	5	1	28	5'-0"	
P504	5	1	4	6'-0"	
P505	5	Str.	4	2'-0"	
P506	5	1	10	6'-6"	
P507	5	Str.	10	2'-8"	
P601	6	Str.	8	6'-9"	
P801	8	Str.	48	24'-2"	
P901	9	1	7	36'-6"	
P902	9	Str.	14	10'-9"	
P1001	10	Str.	7	20'-11"	
F801	8	3	48	8'-10"	
F802	8	Str.	40	10'-0"	

BAR TYPES

TYPE 1

1'-11" P503	1'-2"	P503
1'-11" P504	2'-2"	P504
1'-11" P506	2'-8"	P506
3'-0" P901	30'-6"	P901

TYPE 2

3'-0" P401	3'-0"	P401
2'-11½" P402	2'-11½"	P402
2'-0" P502	2'-2"	P502

TYPE 3

7'-11"

CERTIFIED CORRECT PLANS
Donald R. Keyser, Engineer — B. P. Schwarzman, Secretary
Approved by PENNA. PUBLIC UTILITY COMMISSION
Attest:
MAR 5 1987

Mark	Description	By	Chkd	Appd	Date

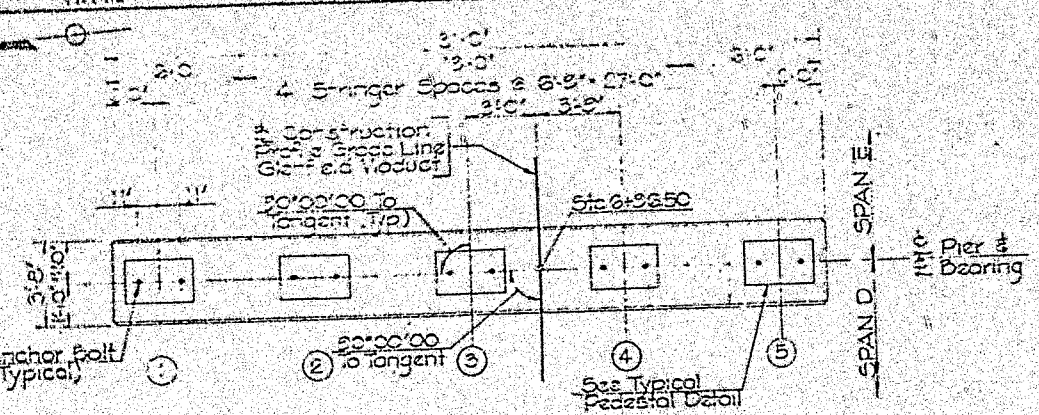
REVISIONS

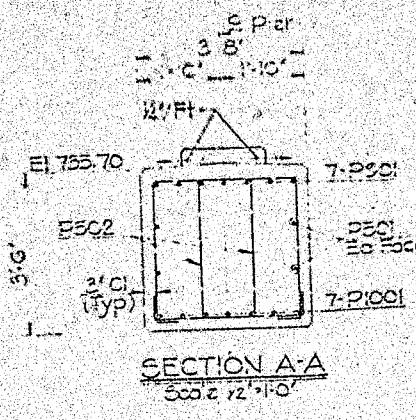
Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT
GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
PIER NO. 3

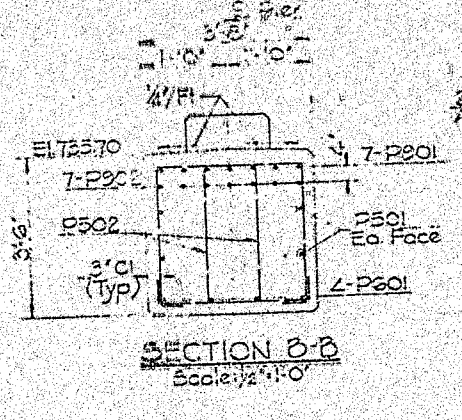
RECOMMENDED _____
BRIDGE ENGINEER

SHEET 12 OF 33
S-16201

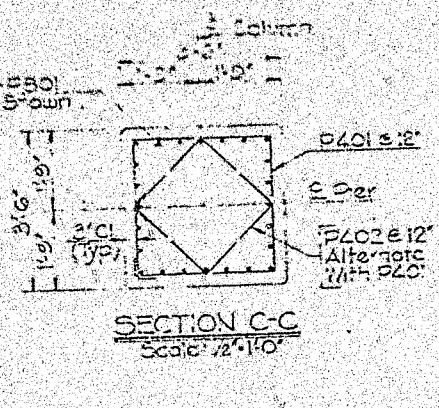




SECTION A-A
Scale: 1/2" = 1'-0"



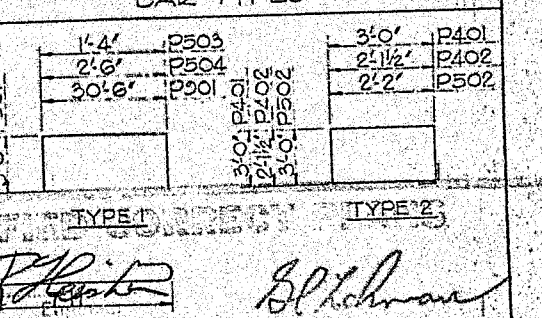
SECTION B-B
Scale: 1/2" = 1'-0"

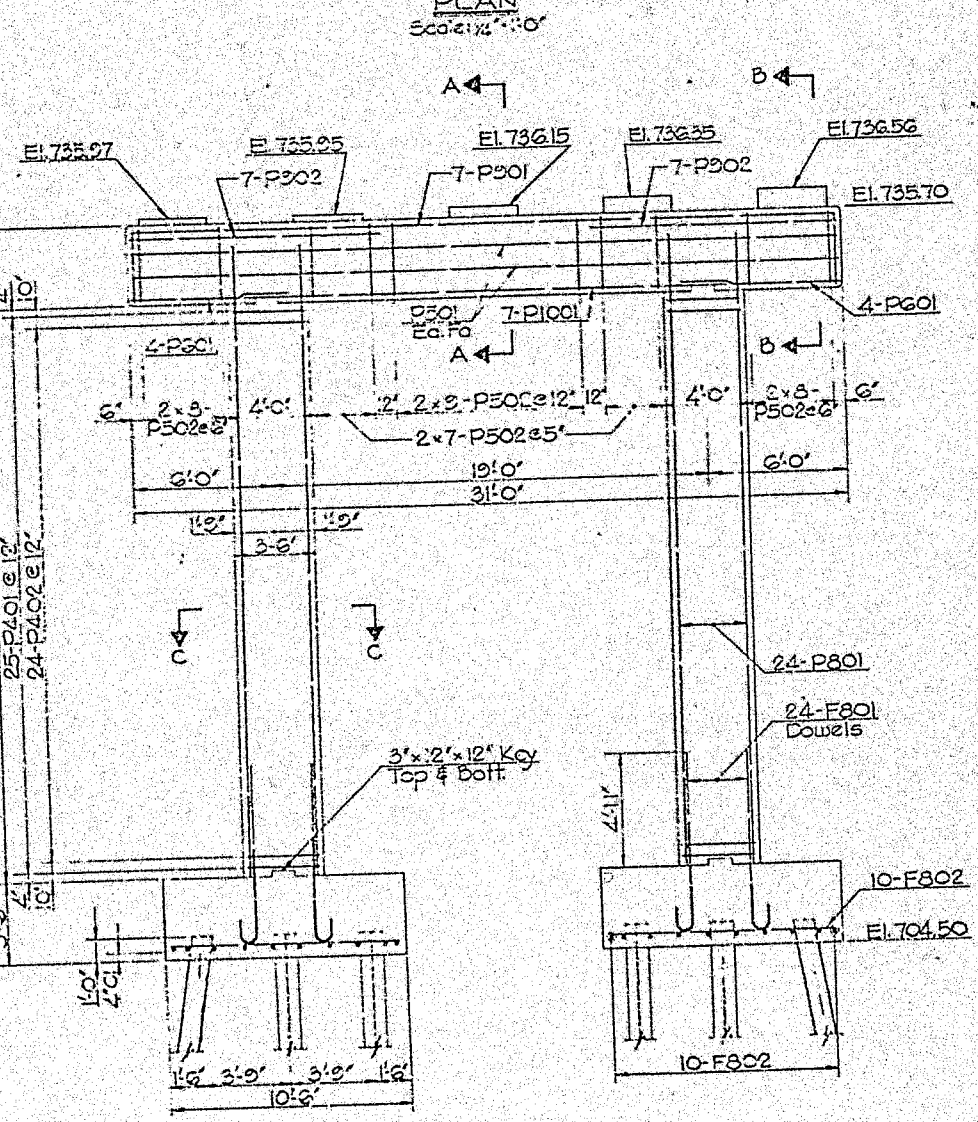


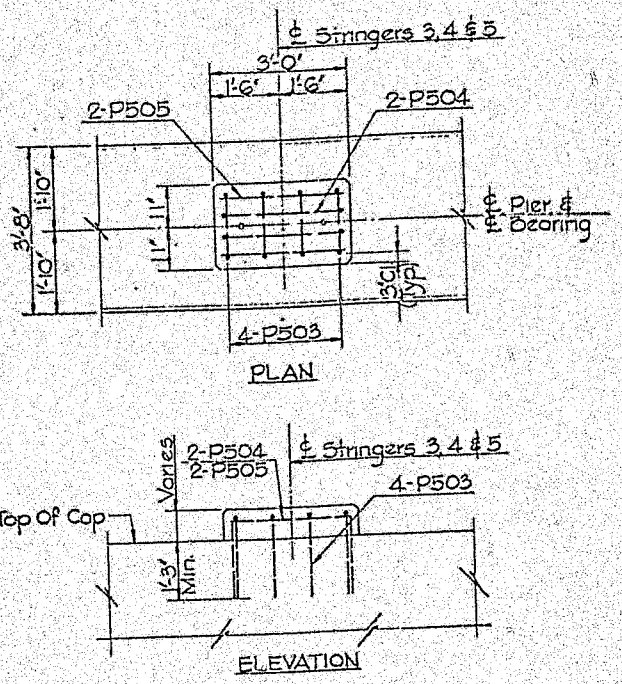
SECTION C-C
Scale: 1/2" = 1'-0"

MARK	SIZE	TYPE	NO	LENGTH	REMARKS
P401	4	1	50	12'6"	
P402	4	1	48	9'3"	
P501	5	Str	4	30'6"	
P502	5	2	78	11'4"	
P503	5	1	12	3'0"	
P504	5	1	6	6'2"	
P505	5	Str	6	2'6"	
P601	6	Str	8	6'9"	
P801	8	Str	48	26'9"	
P901	9	1	7	36'6"	
P902	9	Str	14	10'8"	
P1001	10	Str	7	20'11"	
F801	8	3	48	8'10"	
F802	8	Str	40	10'0"	

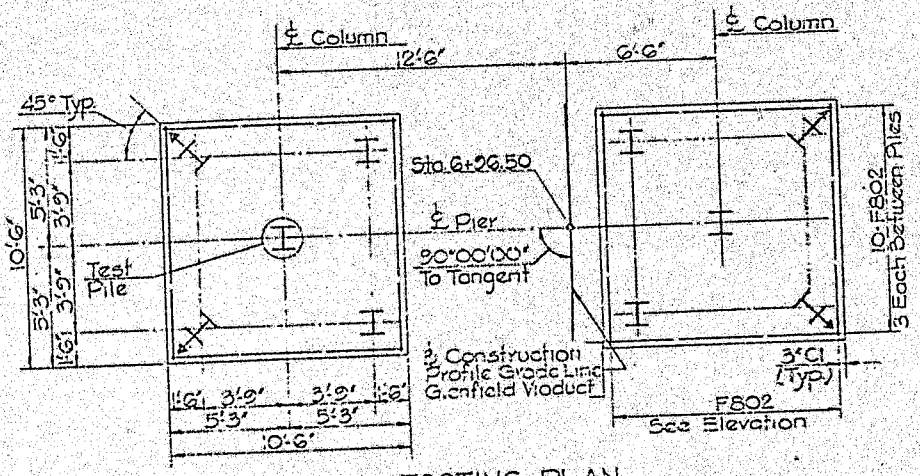
BAR TYPES







PEDESTAL DETAILS
Scale: 1/2" = 1'-0"



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

PILE LEGEND
- Denotes Plumb Piles
- Denotes Battered Pile 3:12

All Piles Shall Be HP 12x74

PILE NOTES
Maximum Allowable Pile Load 58 Tons
Maximum Design Pile Load 54 Tons
Estimated Pile Tip El. 667.00

Approved by
PENNA. PUBLIC UTILITY COMMISSION
Attest:
Secretary
MAR 5 1987

Mark	Description	By	Chk'd	App'd.	Date
REVISIONS					

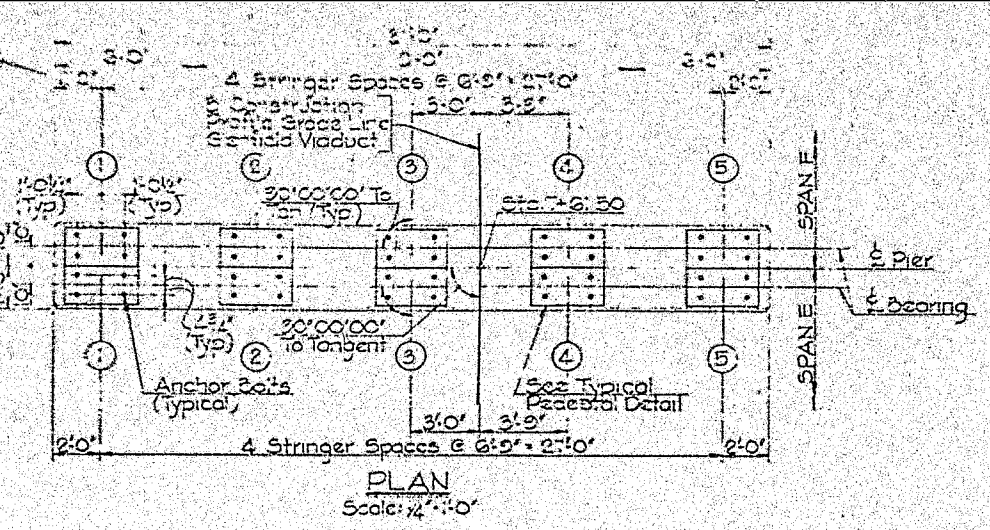
Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT

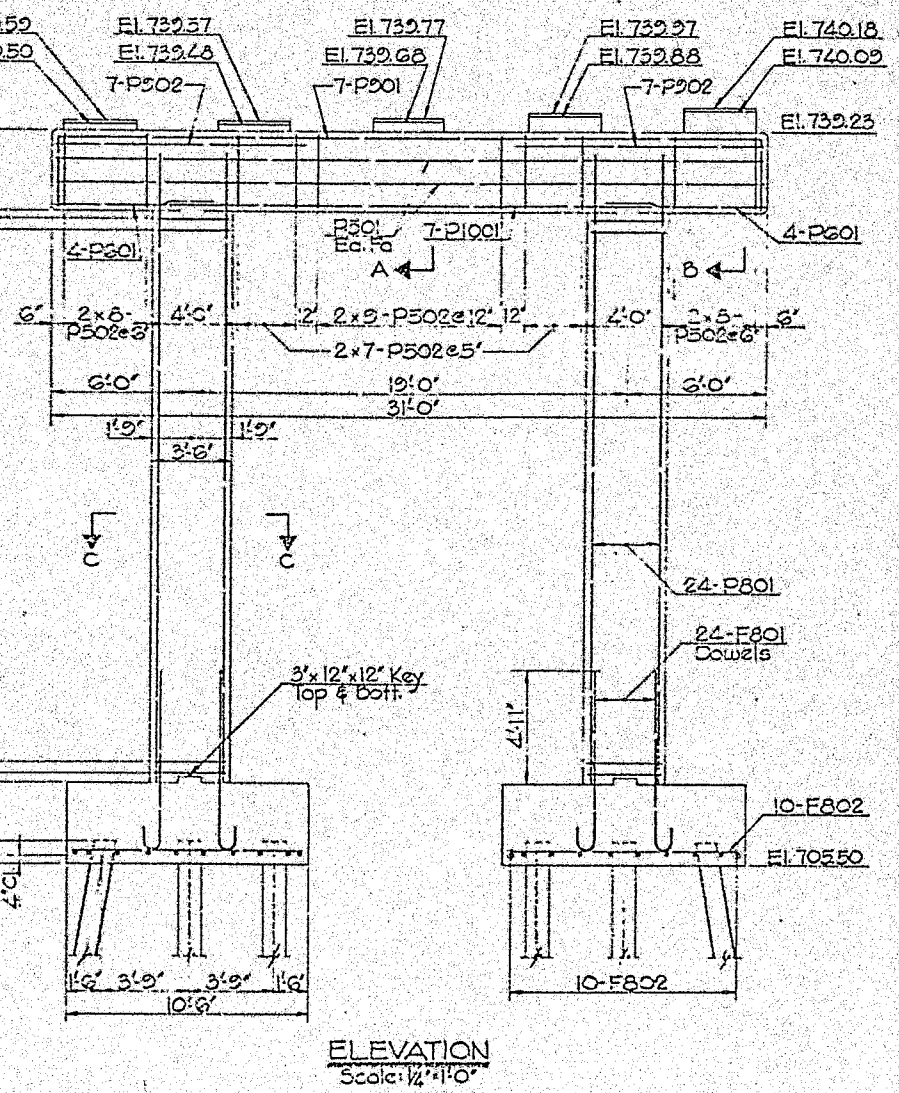
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
PIER NO. 4

RECOMMENDED _____
BRIDGE ENGINEER

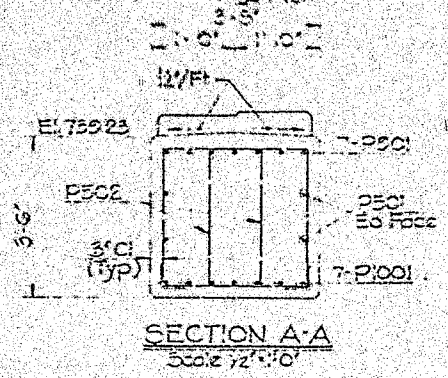
SHEET 13 OF 39
S-16201



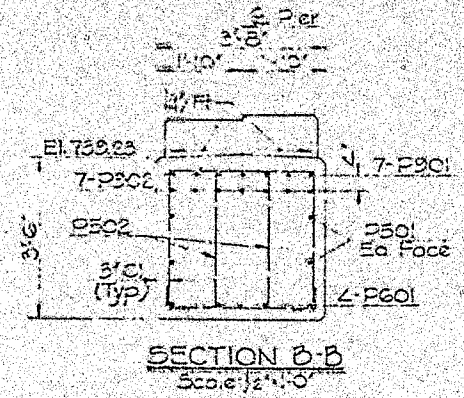
PLAN
Scale: ¼"=1'-0"



ELEVATION
Scale: ½"=1'-0"



SECTION A-A
Scale ½"=1'-0"



SECTION B-B
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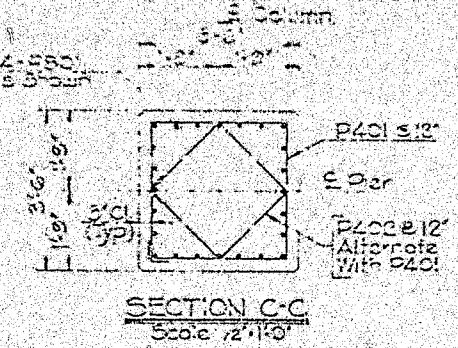
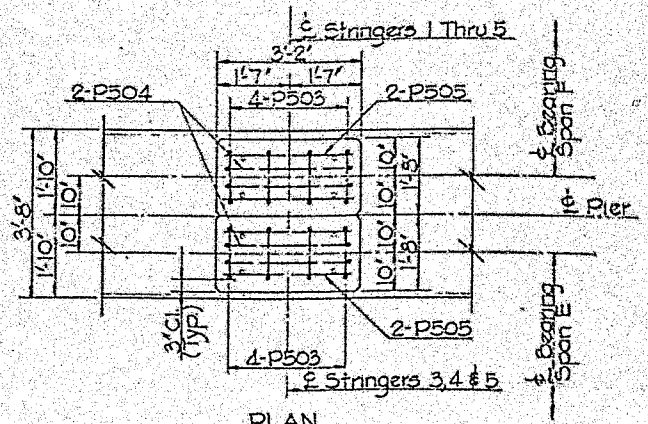
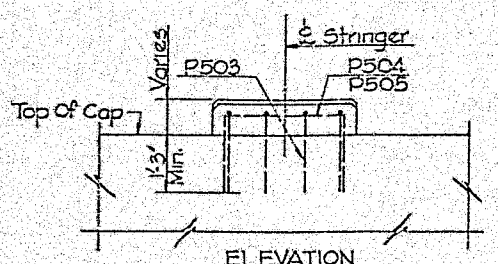


SECTION C-C
Scale ½"=1'-0"

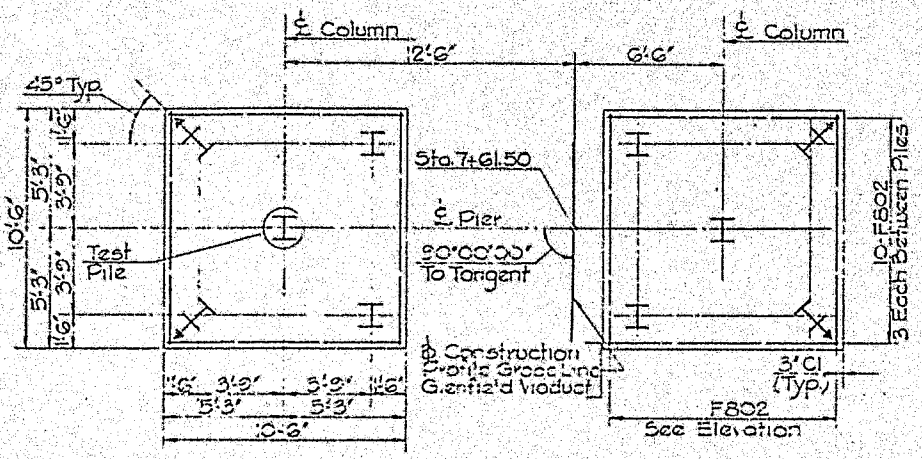


PLAN



ELEVATION

PEDESTAL DETAILS
Scale: ½"=1'-0"



FOOTING PLAN
Scale: ½"=1'-0"

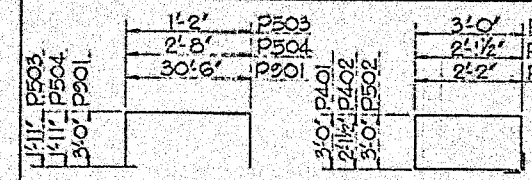
PILE LEGEND
- Denotes Plumb Piles
- Denotes Battered Piles 3:12
- All Piles Shall Be HP12 x 74

PILE NOTES
- Maximum Allowable Pile Load 28 Tons
- Maximum Design Pile Load 84 Tons
- Estimated Pile Tip El. 667.00

BAR SCHEDULE

MARK	SIZE	TYPE	NO	LENGTH	REMARKS
P401	4	2	54	2'-8"	
P402	4	2	52	2'-6"	
P501	5	Str	4	30'-6"	
P502	5	2	78	11'-4"	
P503	5	1	32	5'-0"	
P504	5	1	16	6'-6"	
P505	5	Str	16	2'-8"	
P601	6	Str	8	6'-9"	
P801	8	Str	48	29'-3"	
P901	9	1	7	36'-6"	
P902	9	Str	14	10'-9"	
F1001	10	Str	7	20'-11"	
F801	8	3	48	8'-10"	
F802	8	Str	40	10'-0"	

BAR TYPES



TYPE 1 TYPE 2 TYPE 3

GENERAL CONSTRUCTION PLANS

Donald R. Keister — B. L. Schwan

Approved by PENNA. PUBLIC UTILITY COMMISSION

Attest: Secretary

MAR 5 1987

Mark	Description	By	Chkd	Approved	Date

REVISIONS

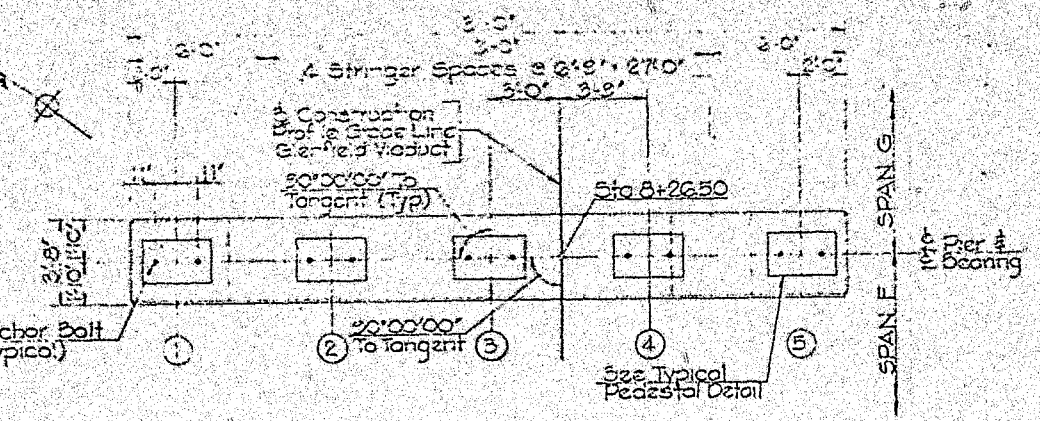
Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT

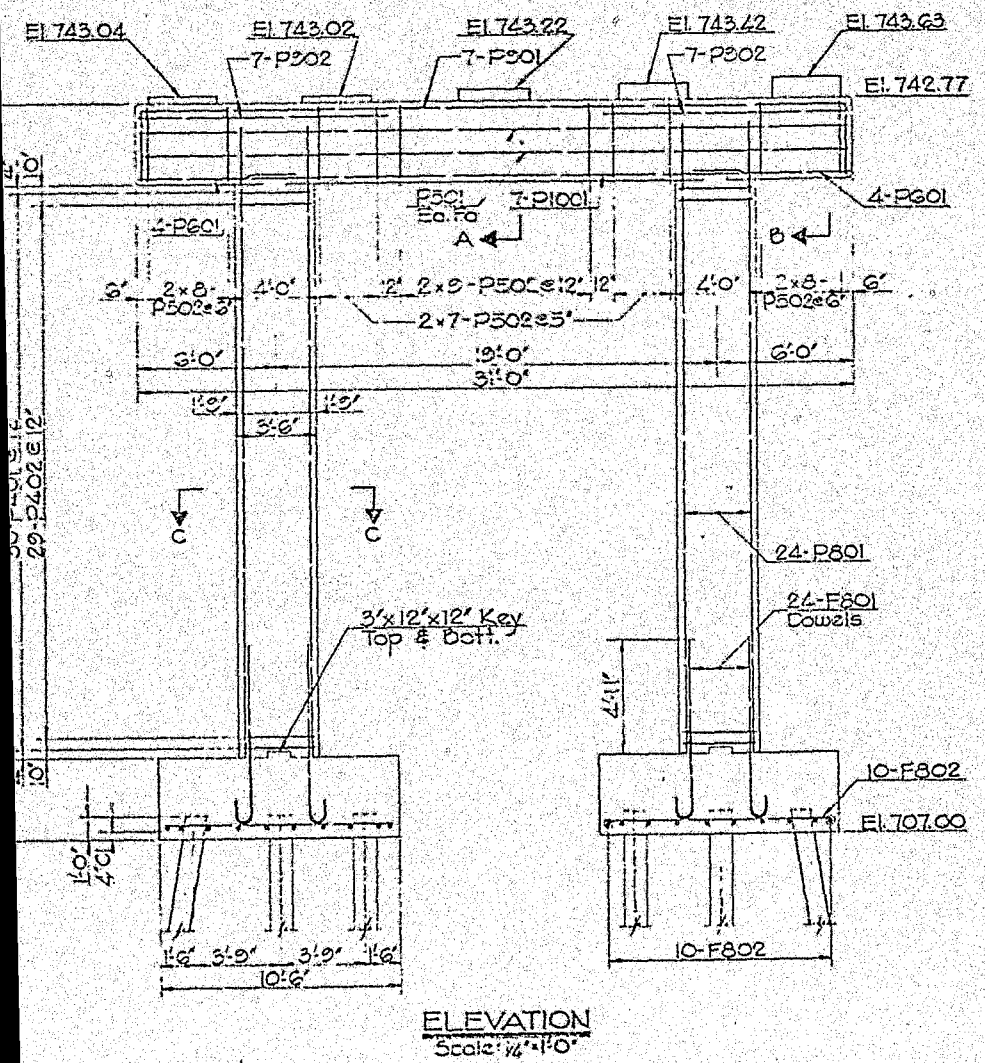
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
PIER NO. 5

RECOMMENDED _____
BRIDGE ENGINEER

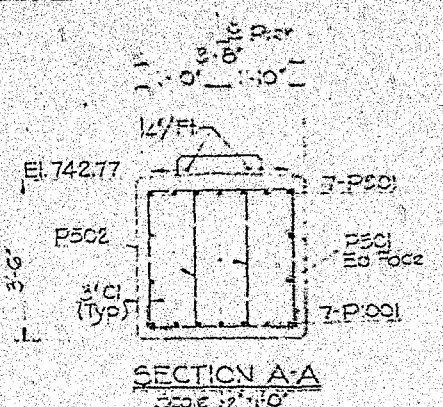
SHEET 44 OF 39
S-16201



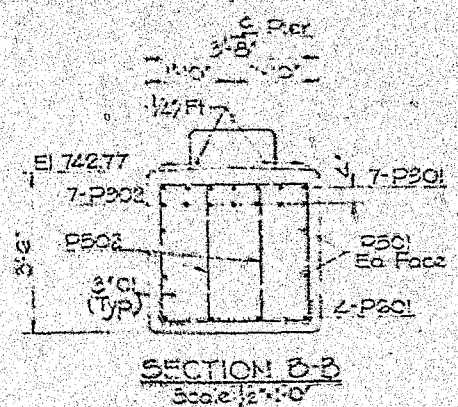
PLAN
Scale: ½"=1'-0"



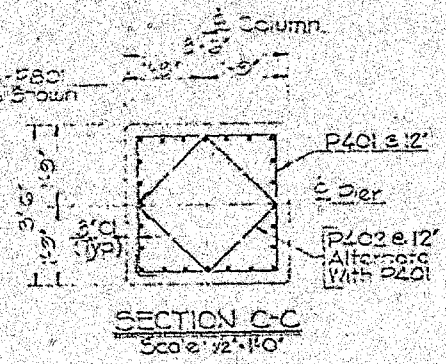
ELEVATION
Scale: ¼"=1'-0"



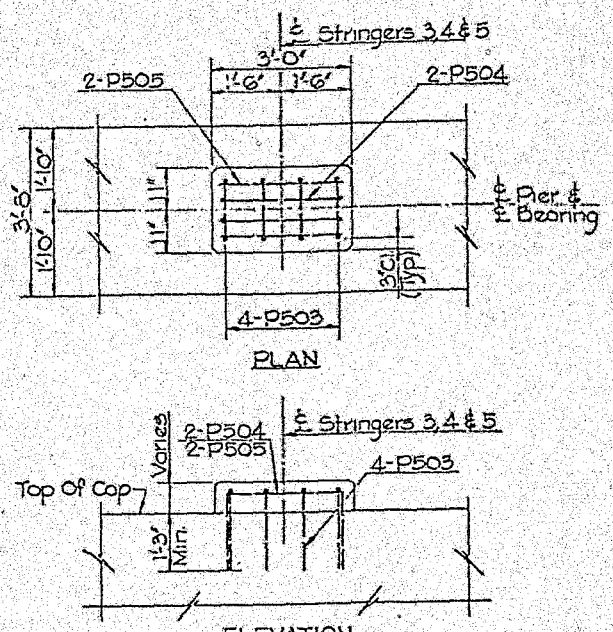
SECTION A-A
Scale: ½"=1'-0"



SECTION B-B
Scale: ½"=1'-0"



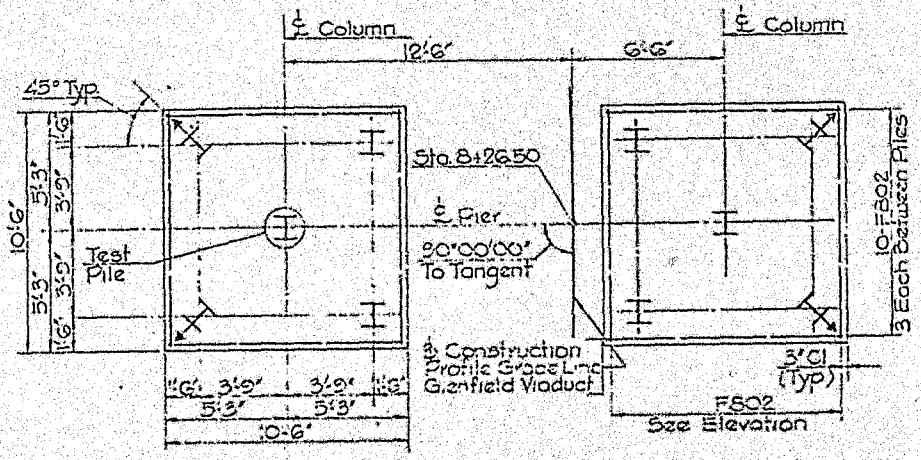
SECTION C-C
Scale: ½"=1'-0"



PLAN

ELEVATION

PEDESTAL DETAIL
Scale: ½"=1'-0"



FOOTING PLAN
Scale: ½"=1'-0"

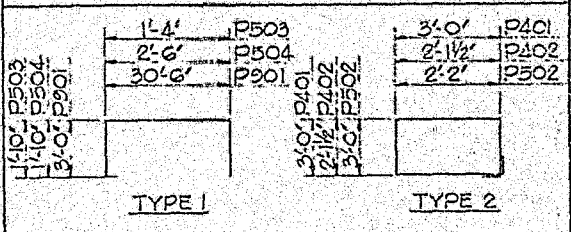
PILE LEGEND
Denotes Plumb Piles
Denotes Battered Piles 3:12
All Piles Shall Be HP12x74

PILE NOTES
Maximum Allowable Pile Load 68 Tons
Maximum Design Pile Load 54 Tons
Estimated Pile Tip El. 674.00

BAR SCHEDULE

MARK	SIZE	TYPE	NO	LENGTH	REMARKS
P401	4	2	20	2'-6"	
P402	4	2	58	5'-3"	
P501	5	Str	4	30'-6"	
P502	5	2	78	11'-4"	
P503	5	1	12	5'-0"	
P504	5	1	6	6'-2"	
P505	5	Str	6	2'-6"	
P601	6	Str	8	6'-8"	
P801	8	Str	48	31'-3"	
P901	9	1	7	30'-6"	
P902	9	Str	4	10'-8"	
P1001	10	Str	7	20'-1"	
F801	8	3	48	8'-10"	
F802	8	Str	40	10'-0"	

BAR TYPES



CERTIFIED CONSTRUCTION PLANS

Approved by
PENNA. PUBLIC UTILITY COMMISSION
Attest:

MAR 5 1987

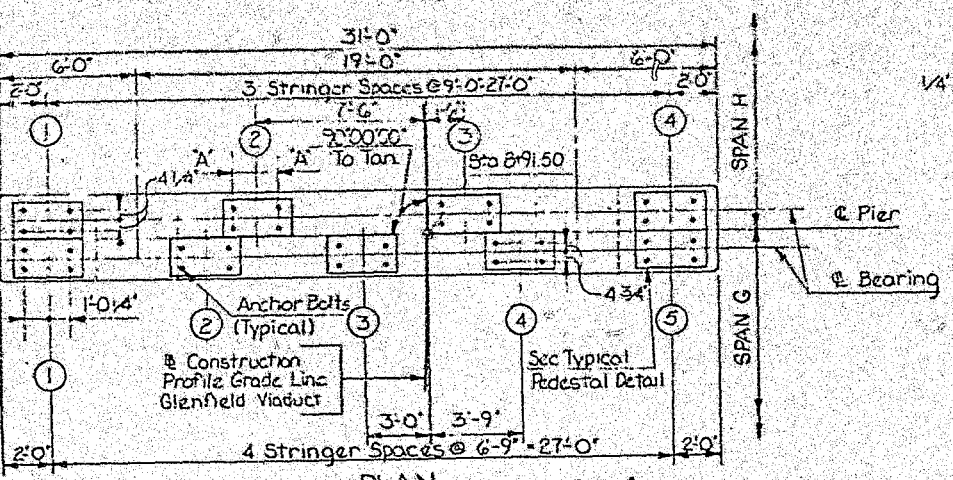
Mark	Description	By	Chk'd.	App'd.	Date
	Secretary REVISIONS				

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
PIER NO. 6

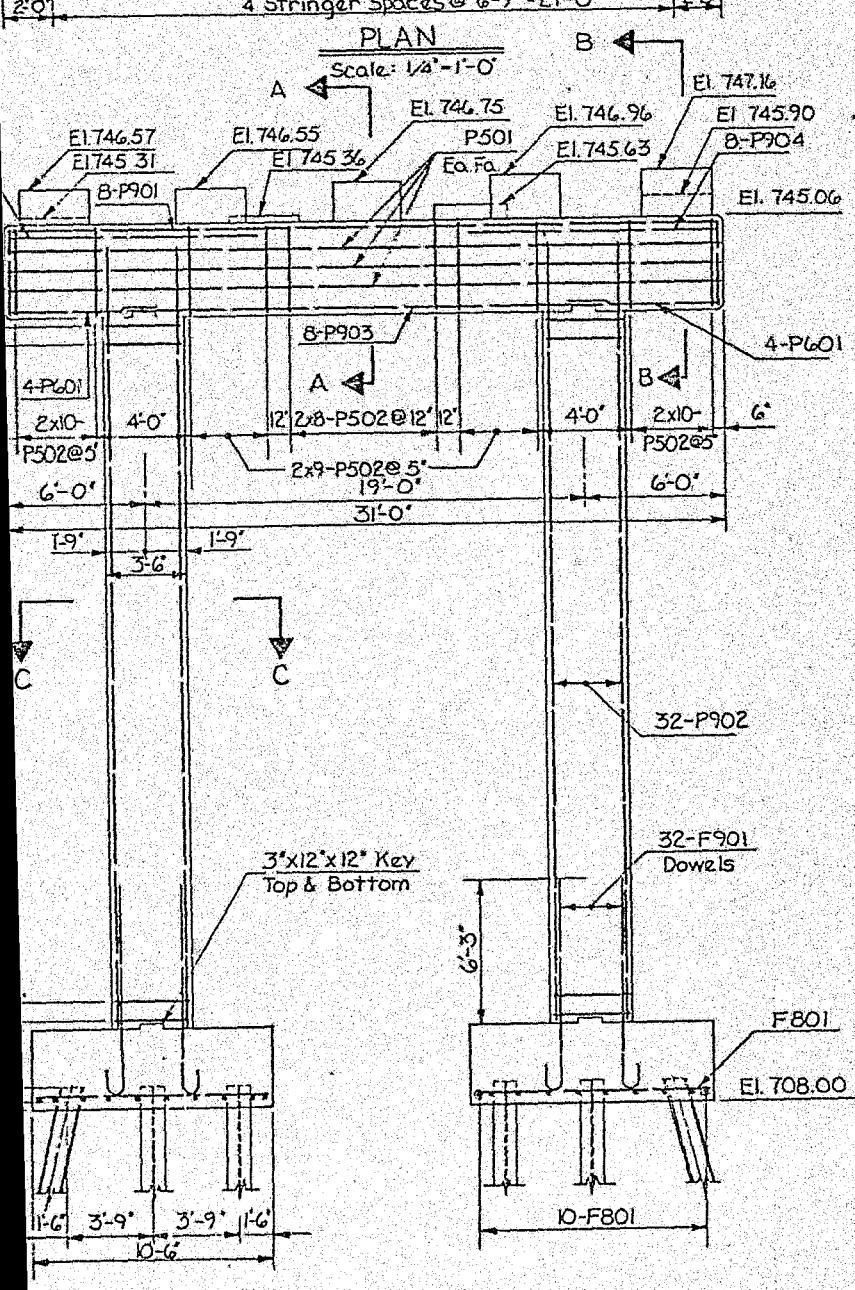
RECOMMENDED _____
BRIDGE ENGINEER

SHEET 15 OF 39
S-16201



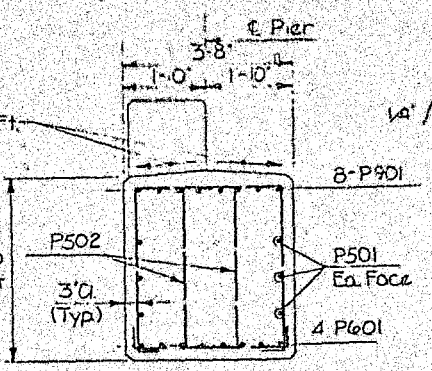
PLAN

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



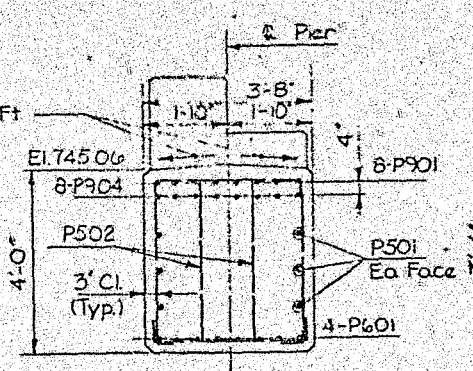
ELEVATION

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



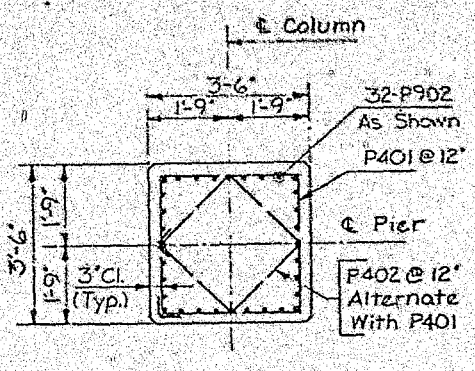
SECTION A-A

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



SECTION B-B

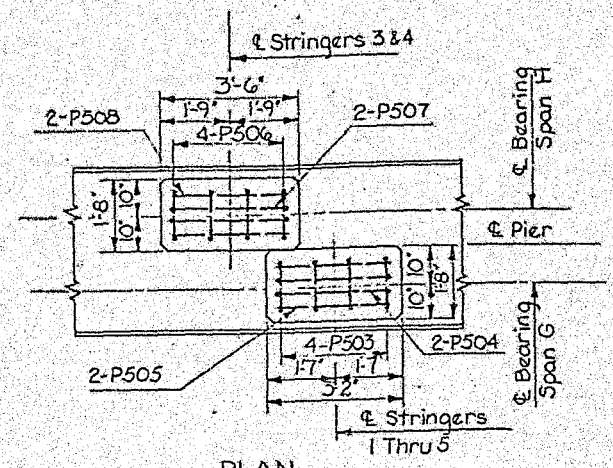
Scale: 1/2"=1'-0"



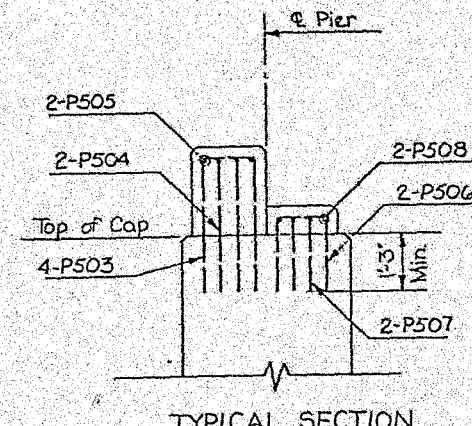
SECTION C-C

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

ANCHOR BOLT LOCATION — SPAN H	
STRINGER NO.	DIMEN. "A"
1	11"
2	11"
3	12"
4	14"



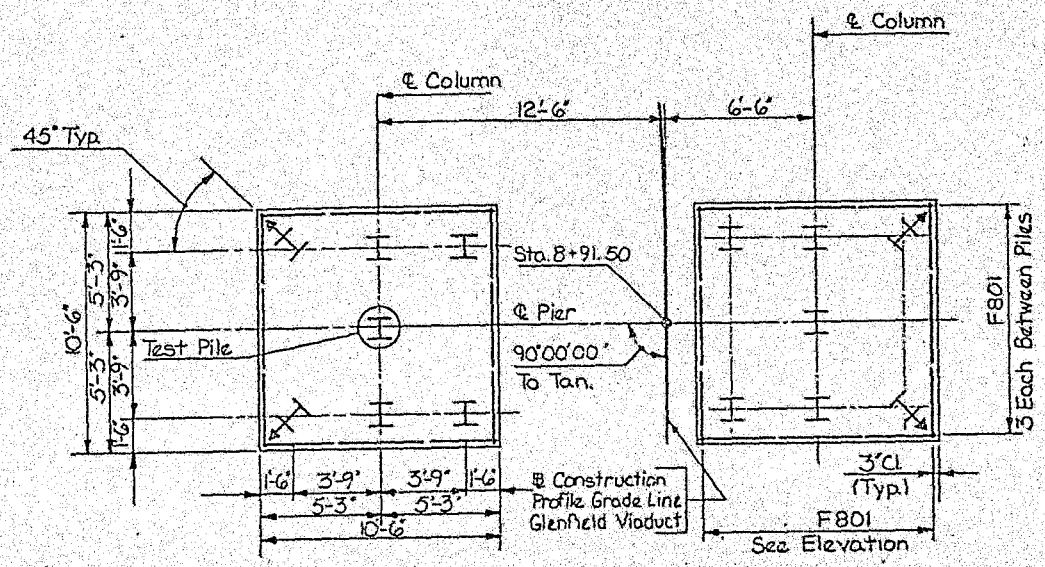
PLAN



TYPICAL SECTION

PEDESTAL DETAILS

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



FOOTING PLAN

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

PILE LEGEND

I Denotes Plumb Piles

I Denotes Battered Piles 3:12

All Piles Shall Be HP 12 x 74

PILE NOTES

Maximum Allowable Pile Load 93 Tons

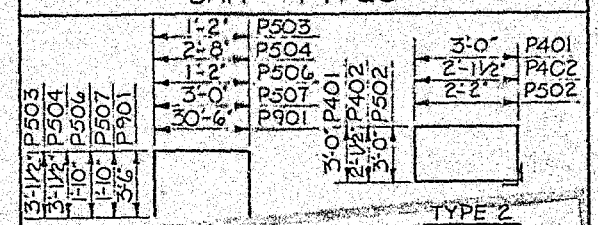
Maximum Design Pile Load 87 Tons

Estimated Pile Tip El 672.00

BAR SCHEDULE

MARK	SIZE	TYPE	NO.	LENGTH	REMARKS
P401	4	2	60	12'-9"	
P402	4	2	58	9'-3"	
P501	5	STR.	6	30'-6"	
P502	5	2	92	12'-4"	
P503	5	1	20	7'-5"	
P504	5	1	10	8'-11"	
P505	5	STR.	10	2'-8"	
P506	5	1	8	4'-10"	
P507	5	1	4	6'-8"	
P508	5	STR.	4	3'-0"	
P601	6	STR.	8	6'-9"	
P901	9	1	8	37'-6"	
P902	9	STR.	64	32'-7"	
P903	9	STR.	8	20'-11"	
P904	9	STR.	16	10'-9"	
F801	8	STR.	40	10'-0"	
F901	9	3	64	10'-6"	

BAR TYPES



CERTIFIED COPY

Engineer

Approved by PENNA. PUBLIC UTILITY COMMISSION

Attest:

MAR 5 1987

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

Commonwealth of Pennsylvania

DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA: 16+96.67

10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE

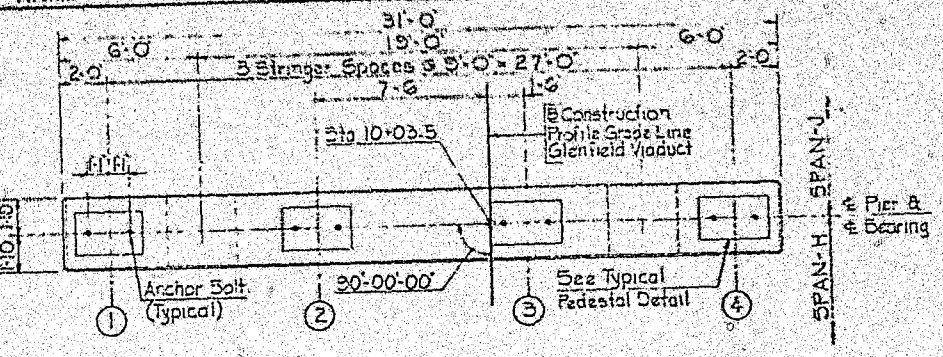
PIER NO. 7

RECOMMENDED

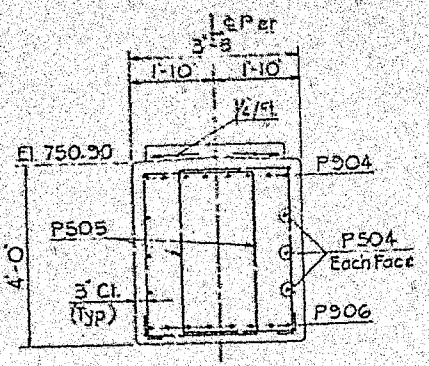
BRIDGE ENGINEER

SHEET 12 OF 39

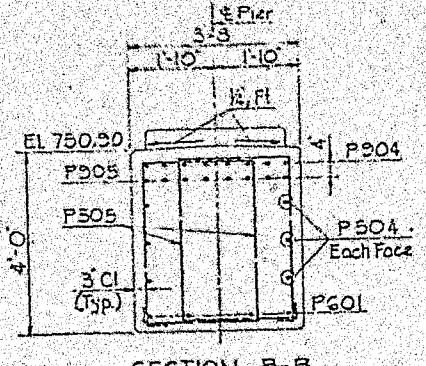
S-16201



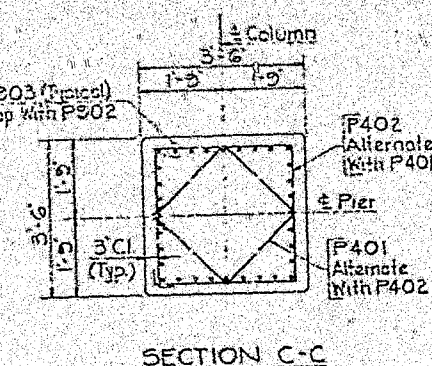
PLAN
Scale: 1/4" = 1'-0"



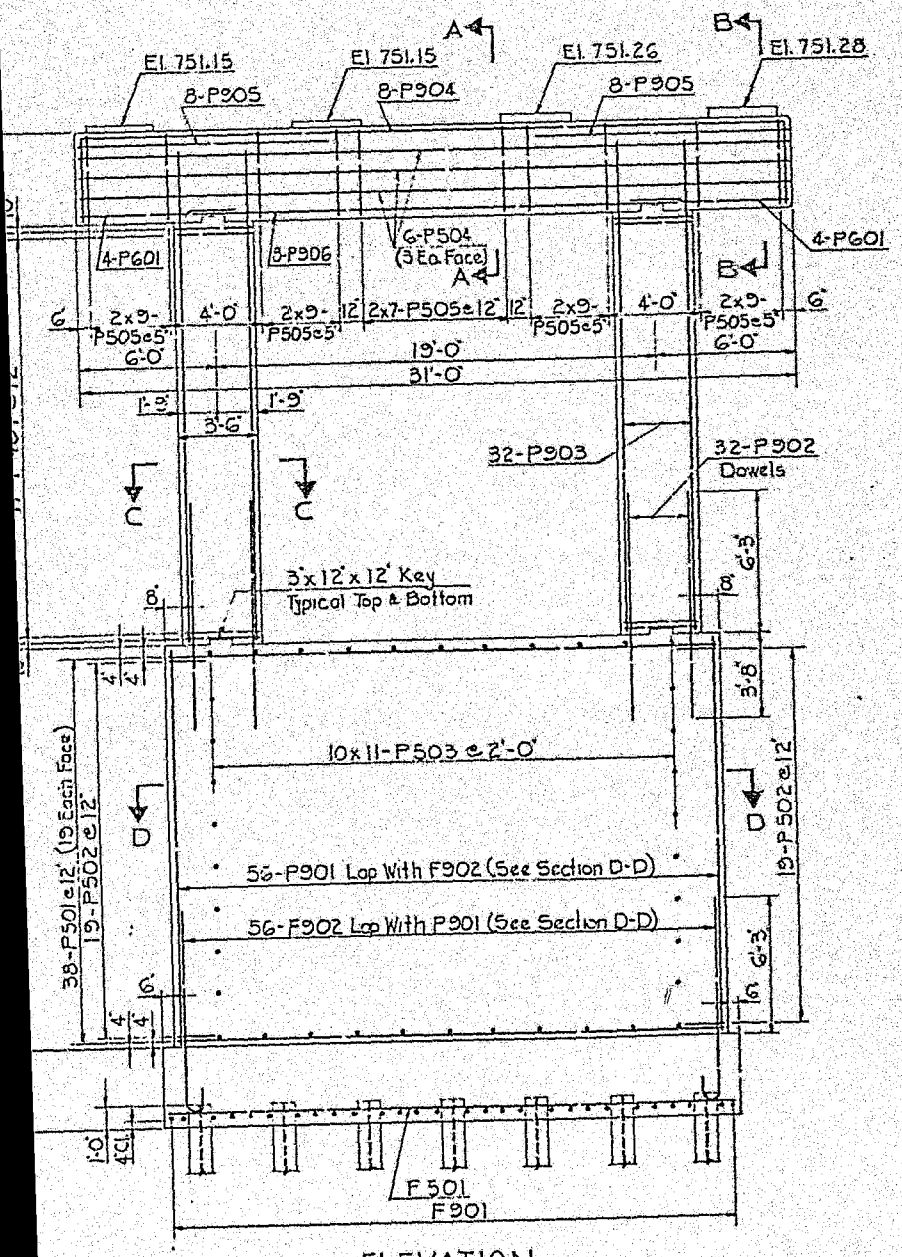
SECTION A-A
Scale: ½" = 1'-0"



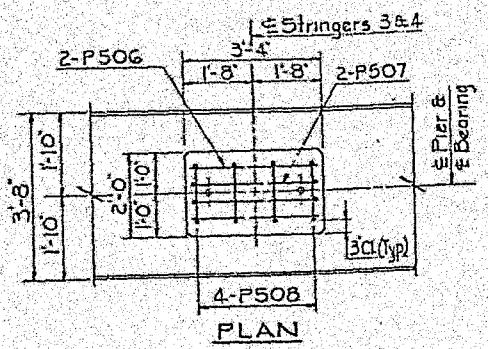
SECTION B-B
Scale: ½" = 1'-0"



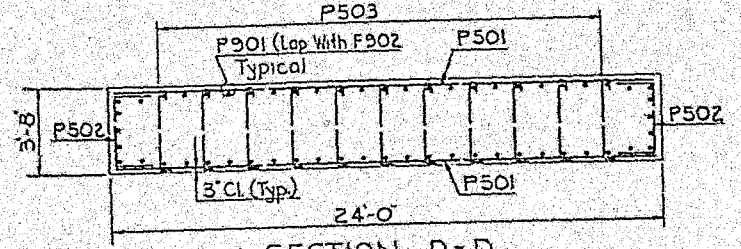
SECTION C-C
Scale: ½" = 1'-0"



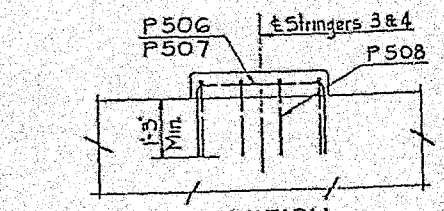
ELEVATION
Scale: 1/4" = 1'-0"



PLAN

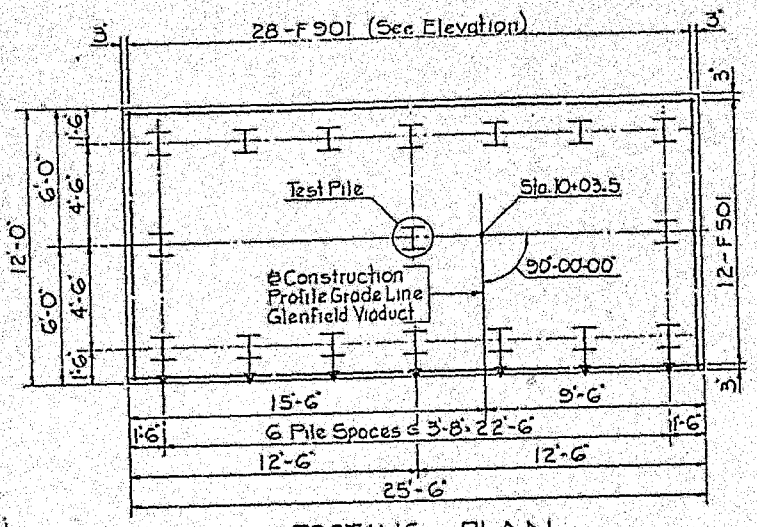


SECTION D-D
Scale: 1/4" = 1'-0"



ELEVATION

PEDESTAL DETAILS
Scale: ½" = 1'-0"



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

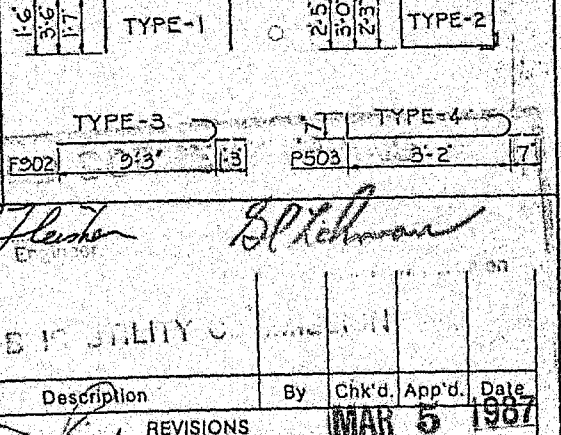
PILE LEGEND
- Denotes Plumb Piles
- Denotes Battered Piles 3:12
- All Piles Shall Be HP12x74

PILE NOTES
Maximum Allowable Pile Load 98 Tons
Maximum Design Pile Load 98 Tons
Estimated Pile Tip El 673.00

BAR SCHEDULE

MARK	SIZE	TYPE	NO.	LENGTH	REMARKS
F501	#5	Str.	12	25'-2"	
F901	9	Str.	28	11'-8"	
F902	9	3	56	10'-8"	
P401	4	2	34	9'-9"	
P402	4	2	36	12'-9"	
P501	5	Str.	38	23'-8"	
P502	5	1	38	6'-4"	
P503	5	4	110	4'-4"	
P504	5	Str.	6	30'-6"	
P505	5	2	86	12'-0"	
P506	5	Str.	4	2'-10"	
P507	5	1	4	5'-10"	
P508	5	1	8	4'-6"	
P601	6	Str.	8	8'-0"	
P901	9	Str.	56	17'-4"	
P902	9	Str.	64	9'-11"	
P903	9	Str.	64	20'-5"	
P904	9	1	8	37'-6"	
P905	9	Str.	16	10'-10"	
P906	9	Str.	8	21'-10"	

BAR TYPES



Approved by
PENNA. PUBLIC UTILITY C...

Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				MAR 5 1987

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

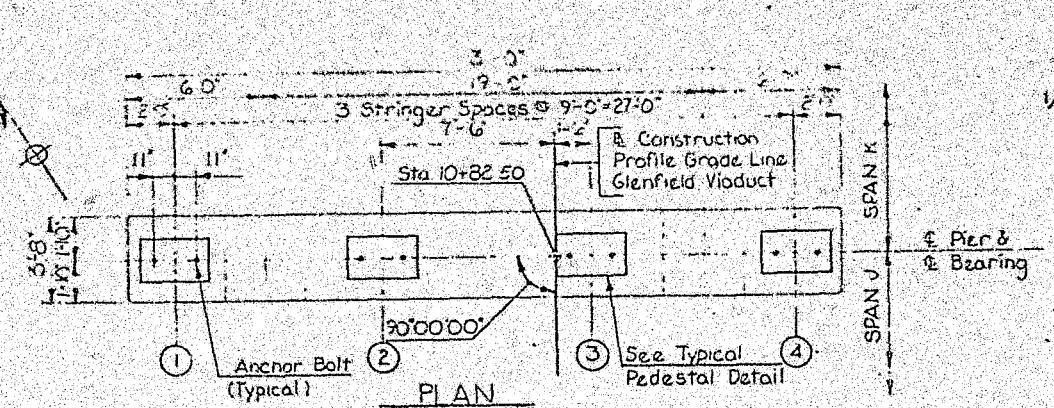
ALLEGHENY COUNTY
GLENFIELD VIADUCT

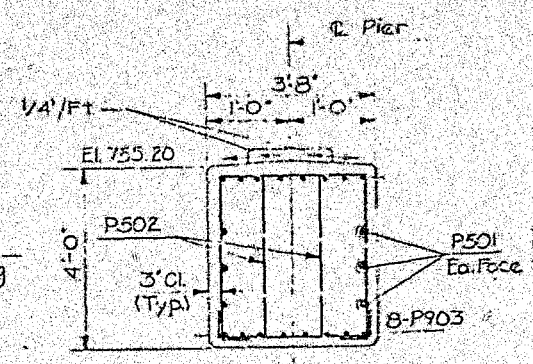
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
PIER NO. 8

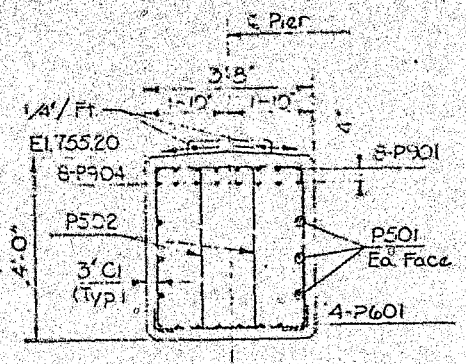
SHEET 22 OF 39

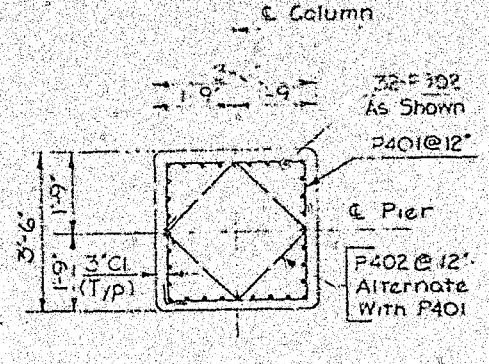
RECOMMENDED _____
BRIDGE ENGINEER

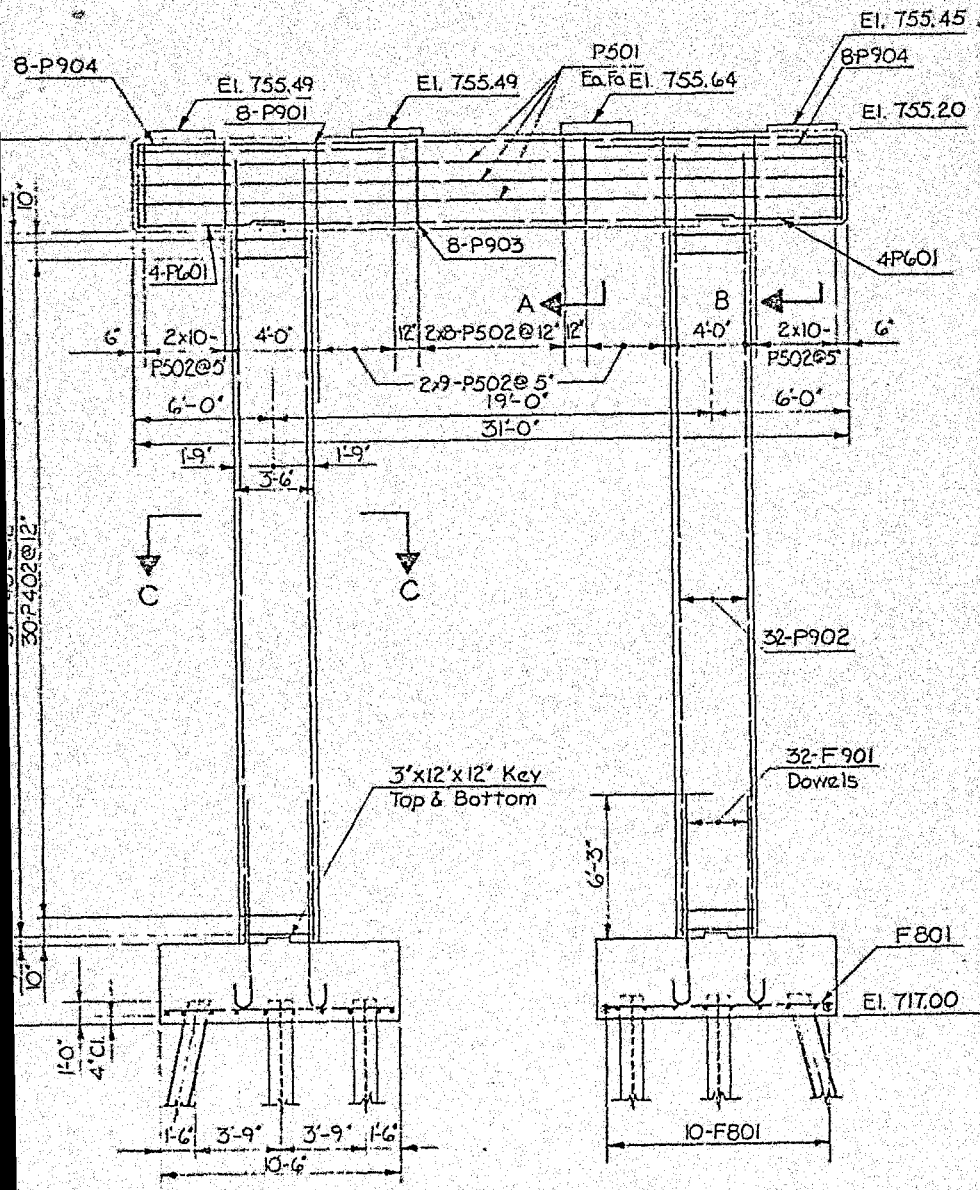
S-16201

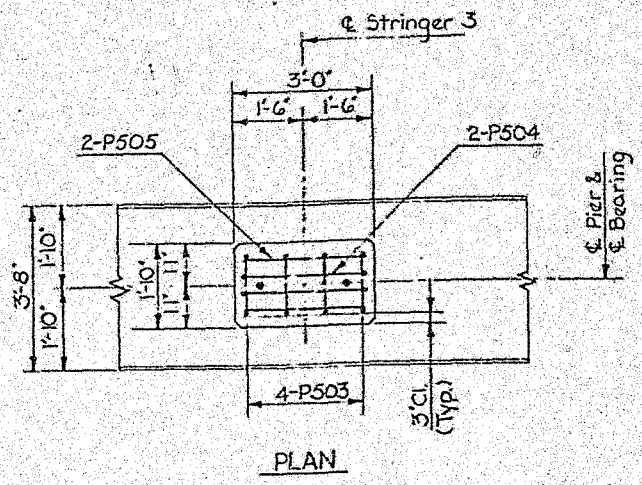


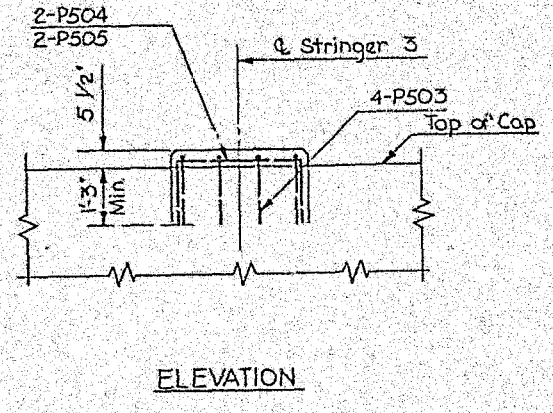




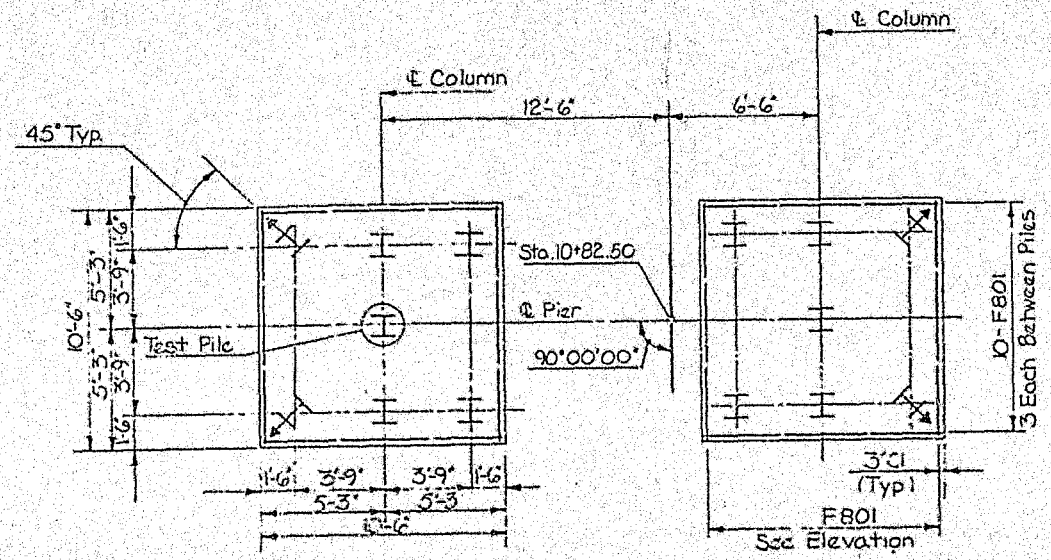








PEDESTAL DETAILS
Scale: 1/2"=1'-0"



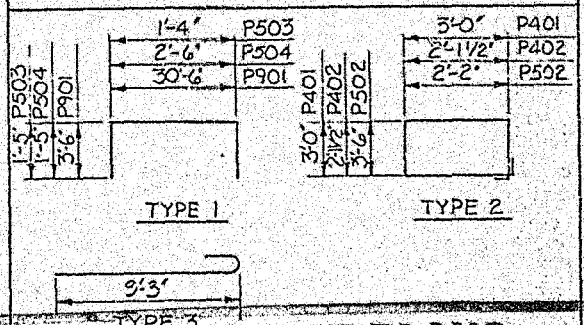
PILE LEGEND
- Denotes Plumb Piles
- Denotes Batter Piles 5:12
- All Piles Shall Be HP 12x74

PILE NOTES
Maximum Allowable Pile Load 58 Tons
Maximum Design Pile Load 87 Tons
Estimated Pile Tip El. 707.00

BAR SCHEDULE

MARK	SIZE	TYPE	NO	LENGTH	REMARKS
P401	4	2	62	12'-9"	
P402	4	2	60	9'-3"	
P501	5	STR	6	30'-6"	
P502	5	2	92	12'-4"	
P503	5	1	4	4'-2"	
P504	5	1	2	5'-4"	
P505	5	STR	2	2'-6"	
P601	6	STR	8	6'-9"	
P901	9	1	8	37'-6"	
P902	9	STR	64	33'-8"	
P903	9	STR	8	20'-11"	
P904	9	STR	16	10'-9"	
F801	8	STR	40	10'-0"	
F901	9	3	64	10'-6"	

BAR TYPES



CERTIFIED CORRECT PLANS

Engineer

Secretary

Approved by
PENNA. PUBLIC UTILITY COMMISSION
Attest:

Mark	Description	By	Chk'd	Appr'd.	Date
REVISIONS					

MAR 5 1987

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT

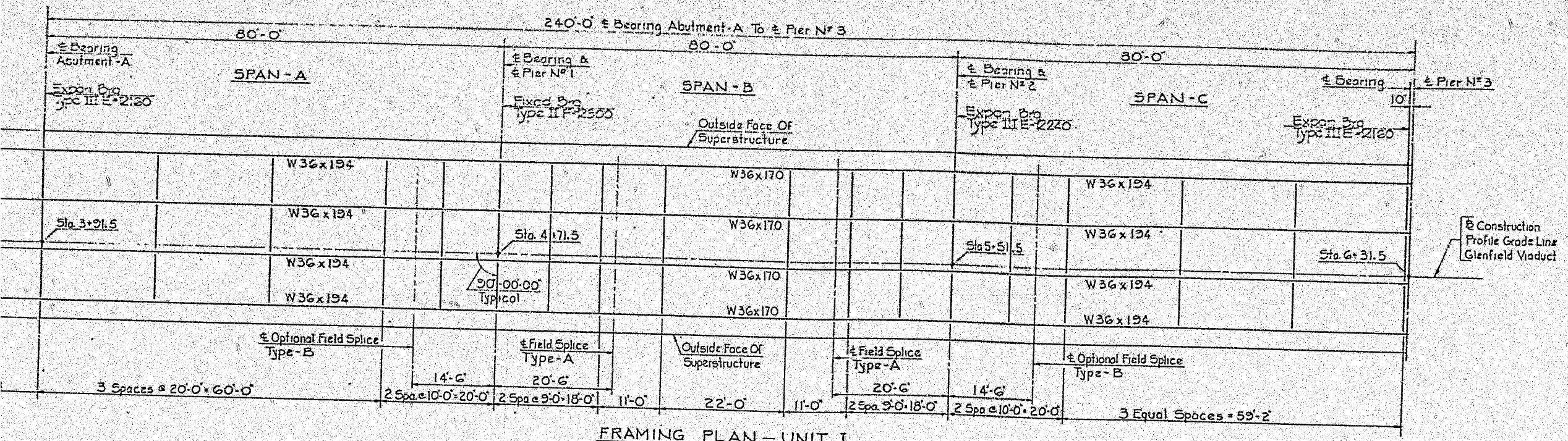
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
6 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
PIER NO 9

RECOMMENDED

BRIDGE ENGINEER

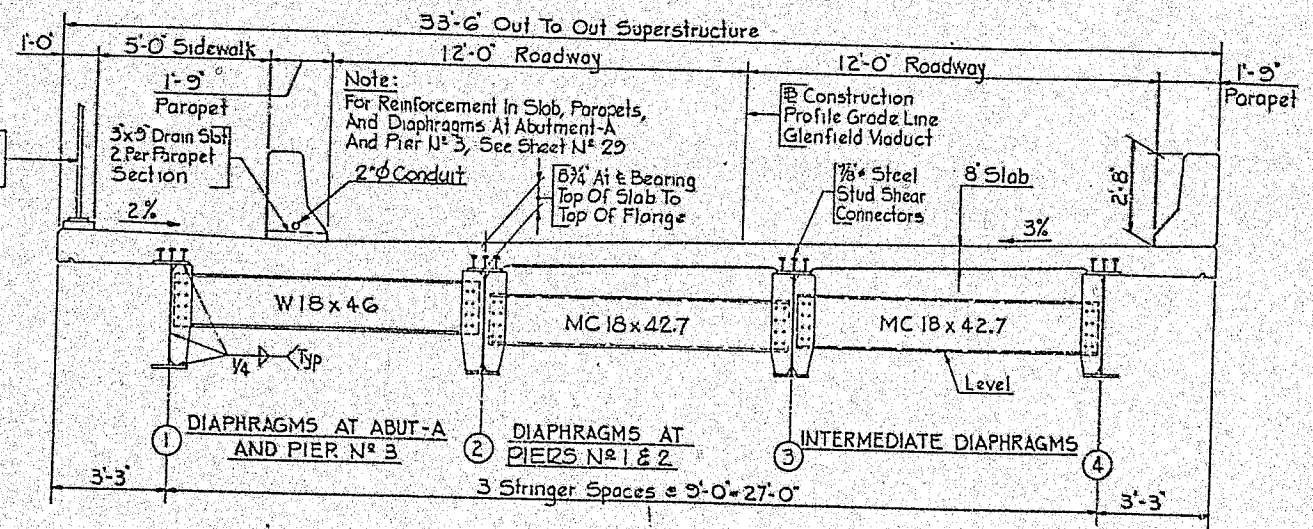
SHEET 12 OF 33

S-16201



FRAMING PLAN — UNIT I

Scale: 1" = 10'



TYPICAL SECTION - UNIT I

Scale: ⅜" = 1'-0"

CERTIFIED CORRECT PLANS

Engineer

Approved by PENNA. PUBLIC UTILITY COMMISSION

Attest:

Secretary

MAR 5 1987

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

Commonwealth of Pennsylvania

DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY

GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67

10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE

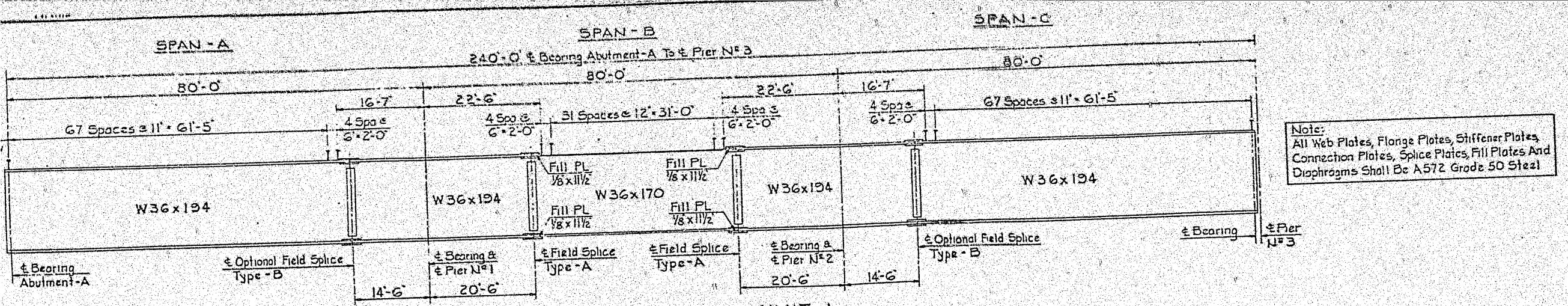
FRAMING PLAN, UNIT I

RECOMMENDED

BRIDGE ENGINEER

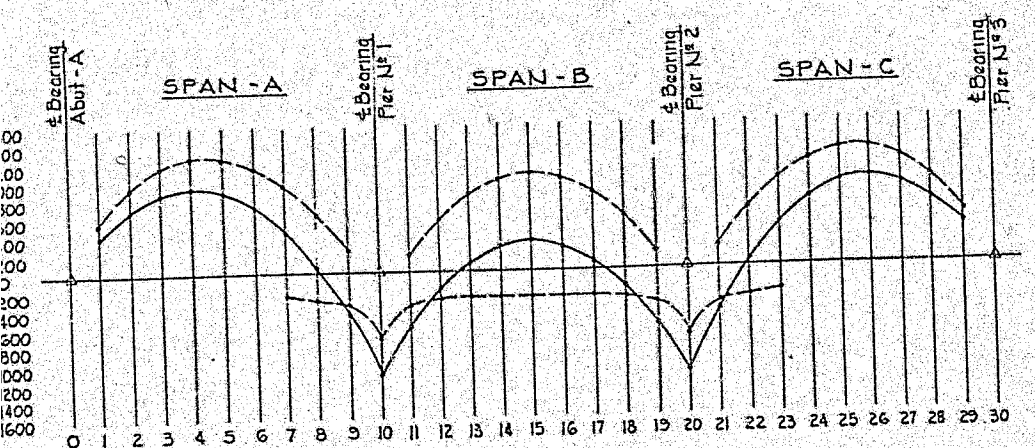
SHEET 19 OF 39

S-16201



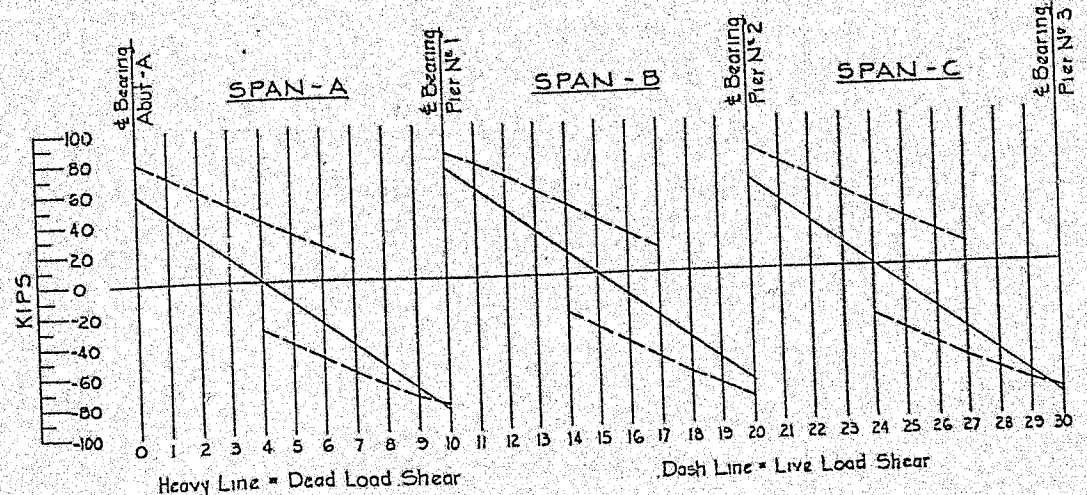
Note:
All Web Plates, Flange Plates, Stiffener Plates, Connection Plates, Splice Plates, Fill Plates And Diaphragms Shall Be A572 Grade 50 Steel

TYPICAL STRINGER ELEVATION — UNIT-1
No Scale



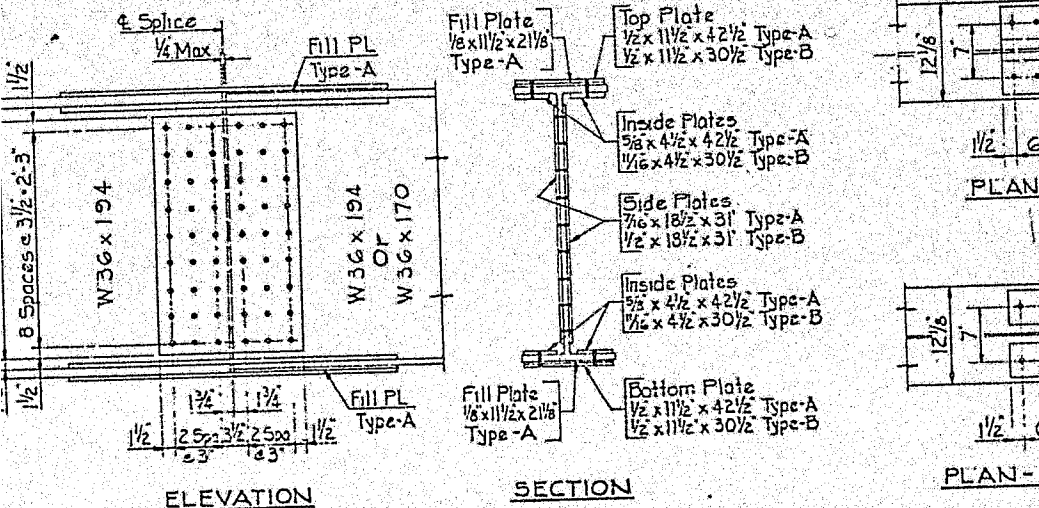
Heavy Line = Moments Dead Load
Dash Line = Moments Live Load

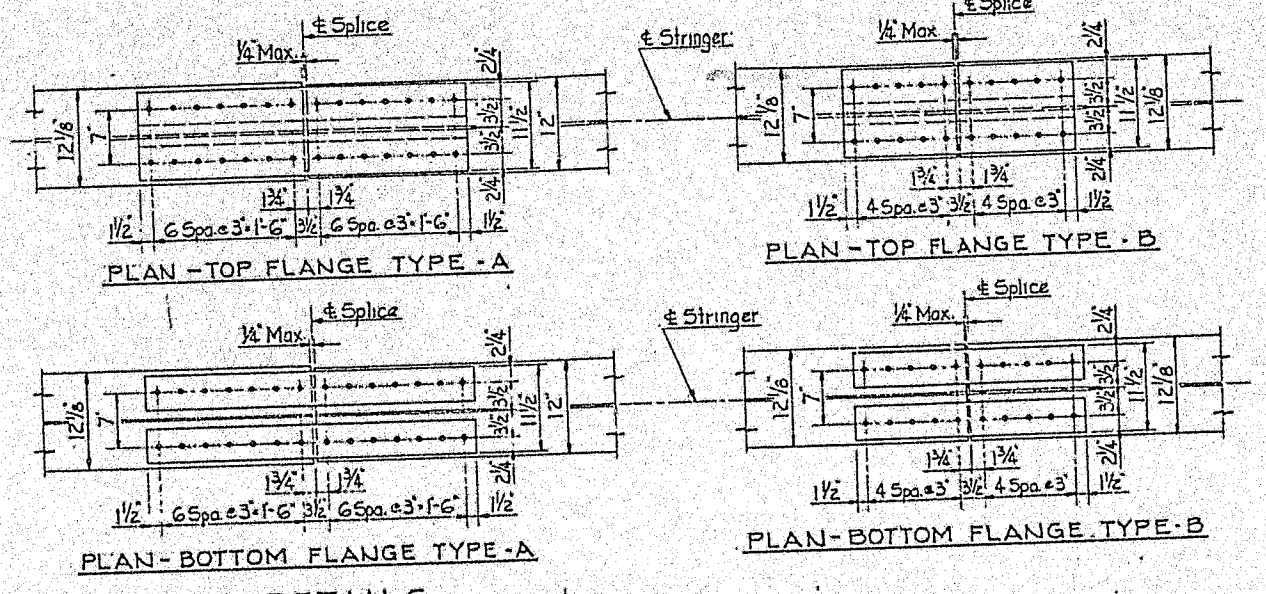
MOMENT DIAGRAM — UNIT - I



Heavy Line = Dead Load Shear
Dash Line = Live Load Shear

SHEAR DIAGRAM — UNIT - I





FIELD SPLICE DETAILS
Scale: 1"-1'-0"

CERTIFIED CORRECT PLANS
Donald R. Kesler Engineer
B. K. Richmond
Approved by
PENNA. PUBLIC UTILITY COMMISSION
Attest:
Secretary
MAR 5 1987

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

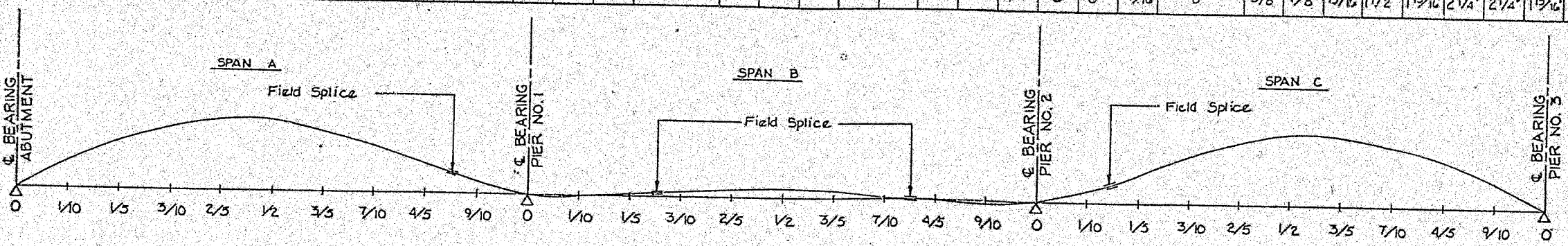
ALLEGHENY COUNTY
GLENFIELD VIADUCT
GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
STRINGER DETAILS, UNIT I

RECOMMENDED
BRIDGE ENGINEER

SHEET 20 OF 32
S-16201

CAMBER ORDINATES Y: INCHES

DESCRIPTION	STRINGER NO	SPAN A											SPAN B												SPAN C										
		℄ BEARING ABUTMENT A	1/10	1/5	3/10	2/5	1/2	3/5	7/10	4/5	F.S.	9/10	℄ BEARING PIER NO 1	1/10	1/5	F.S.	3/10	2/5	1/2	3/5	7/10	F.S.	4/5	9/10	℄ BEARING PIER NO. 2	1/10	F.S.	1/5	3/10	2/5	1/2	3/5	7/10	4/5	9/10	℄ BEARING PIER NO. 3
STEEL	I THRU 4	0	1/8"	3/16"	1/4"	5/16"	5/16"	1/4"	3/16"	1/8"	1/8"	1/16"	0	0	0	0	0	0	0	0	0	0	0	0	0	1/16"	1/8"	1/8"	3/16"	1/4"	5/16"	5/16"	1/4"	3/16"	1/8"	0
DECK SLAB	I THRU 4	0	9/16"	1"	15/16"	1 1/2"	1 1/2"	1 5/16"	1"	5/8"	9/16"	1/4"	0	-1/16"	0	0	0	1/8"	1/8"	1/8"	0	0	0	-1/16"	0	1/4"	9/16"	5/8"	1"	1 5/16"	1 1/2"	1 1/2"	1 5/16"	1"	9/16"	0
SED DEAD LOAD	I THRU 4	0	3/16"	5/16"	3/8"	7/16"	7/16"	3/8"	5/16"	3/16"	3/16"	1/16"	0	0	0	0	1/16"	1/8"	1/8"	1/8"	1/16"	0	0	0	0	1/16"	3/16"	3/16"	5/16"	3/8"	7/16"	7/16"	3/8"	5/16"	3/16"	0
	I THRU 4	0	7/8"	1 1/2"	1 15/16"	2 1/4"	2 1/4"	1 15/16"	1 1/2"	15/16"	7/8"	3/8"	0	-1/16"	0	0	1/16"	1/4"	1/4"	1/4"	1/16"	0	0	-1/16"	0	3/8"	7/8"	15/16"	1 1/2"	1 15/16"	2 1/4"	2 1/4"	1 15/16"	1 1/2"	7/8"	0

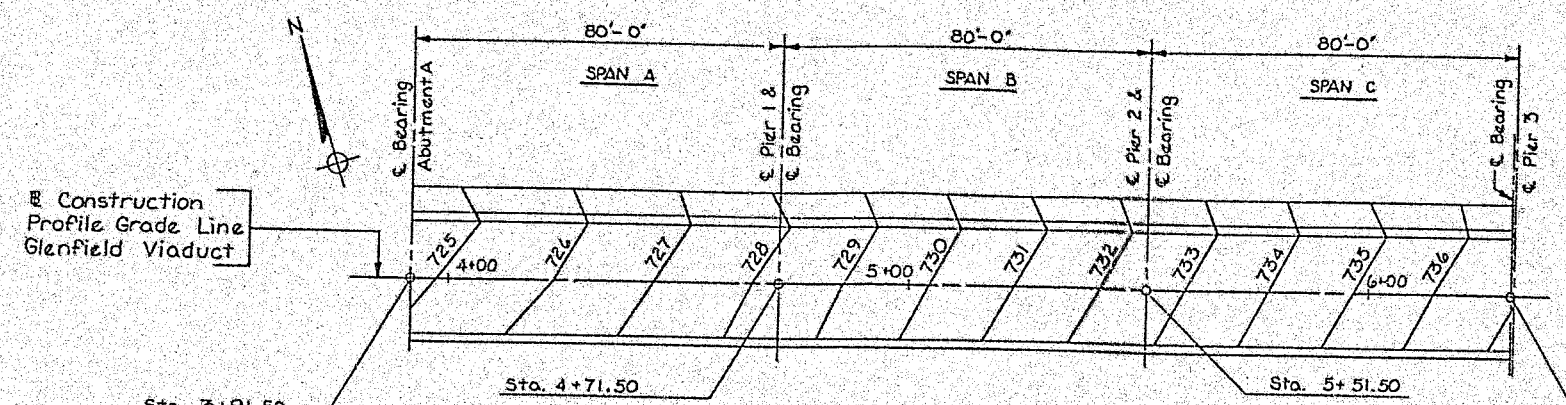


ELEVATION SCHEDULE

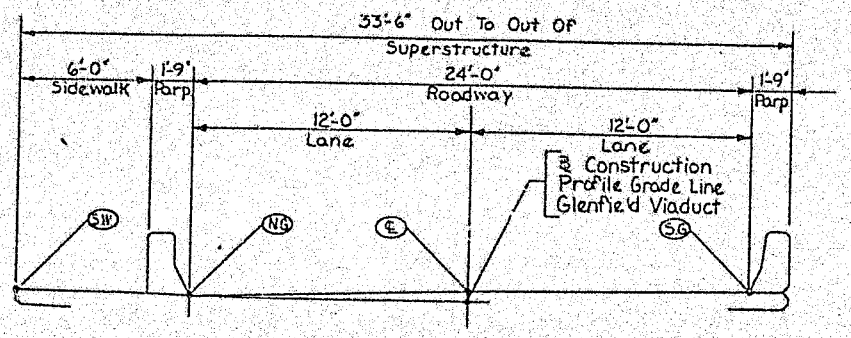
DEWALK	N.G.	℄	S.G.
724.53	724.38	724.74	725.10
724.90	724.75	725.11	725.47
725.29	725.14	725.50	725.86
725.69	725.54	725.90	726.26
726.11	725.96	726.32	726.68
726.55	726.39	726.75	727.11
727.00	726.85	727.21	727.57
727.47	727.32	727.68	728.04
727.96	727.90	728.16	728.52
728.46	728.31	728.67	729.03
728.98	728.82	729.18	729.54
729.52	729.36	729.72	730.08
730.06	729.90	730.26	730.62
730.60	730.45	730.81	731.17
731.15	730.99	731.35	731.71
731.69	731.54	731.90	732.26
732.24	732.08	732.44	732.80
732.78	732.62	732.98	733.34
733.32	733.17	733.53	733.89
733.87	733.71	734.07	734.43
734.41	734.26	734.62	734.98
734.96	734.80	735.16	735.52
735.50	735.34	735.70	736.06
736.04	735.89	736.25	736.61
736.59	736.43	736.79	737.15

AY ELEVATION SCHEDULE

RING	℄ BEARING	℄ BEARING	℄ BEARING
ENT A	PIER NO 1	PIER NO 2	PIER NO 3
.52	727.97	732.25	736.56
.57	728.01	732.30	736.60
.84	728.28	732.57	736.87
.11	728.55	732.84	737.14



CONTOUR PLAN
Scale: 1"-20'



TYPICAL DECK SECTION
Scale: 1/4" = 1'-0"

CERTIFIED CORRECT PLANS
Approved by
PENNA. PUBLIC UTILITY COMMISSION
Attest:
Secretary
MAR 5 1987

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

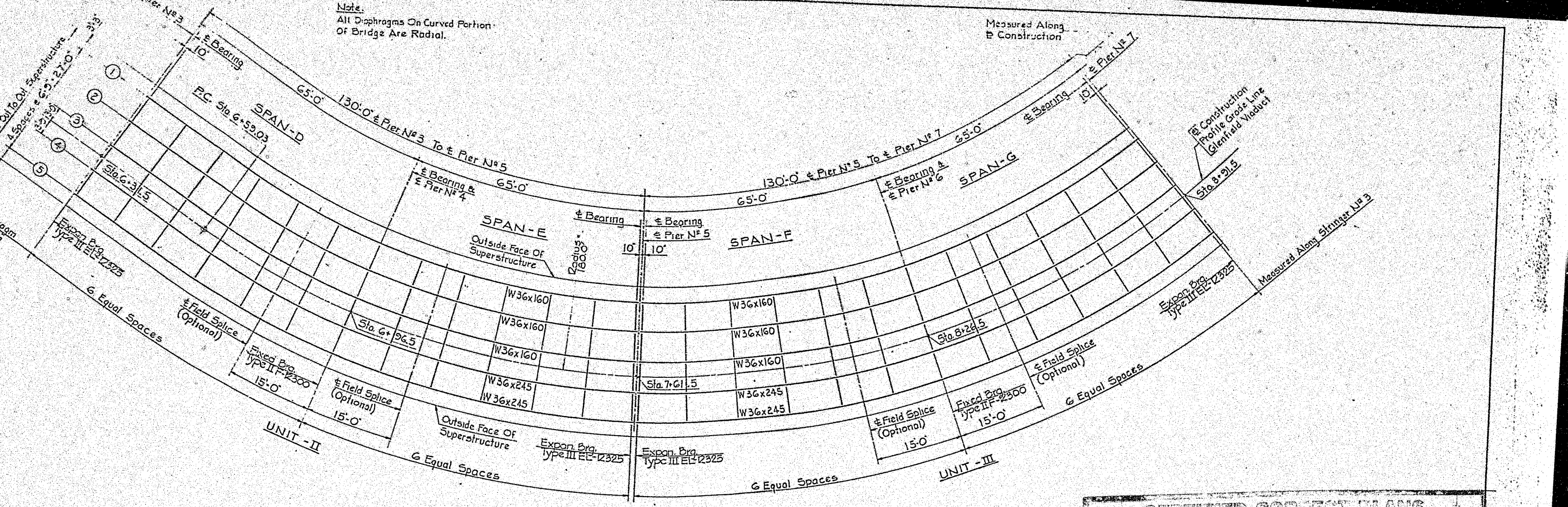
ALLEGHENY COUNTY
GLENFIELD VIADUCT
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
CAMBER & ELEV. SCHEDULES, UNIT I

RECOMMENDED _____
BRIDGE ENGINEER

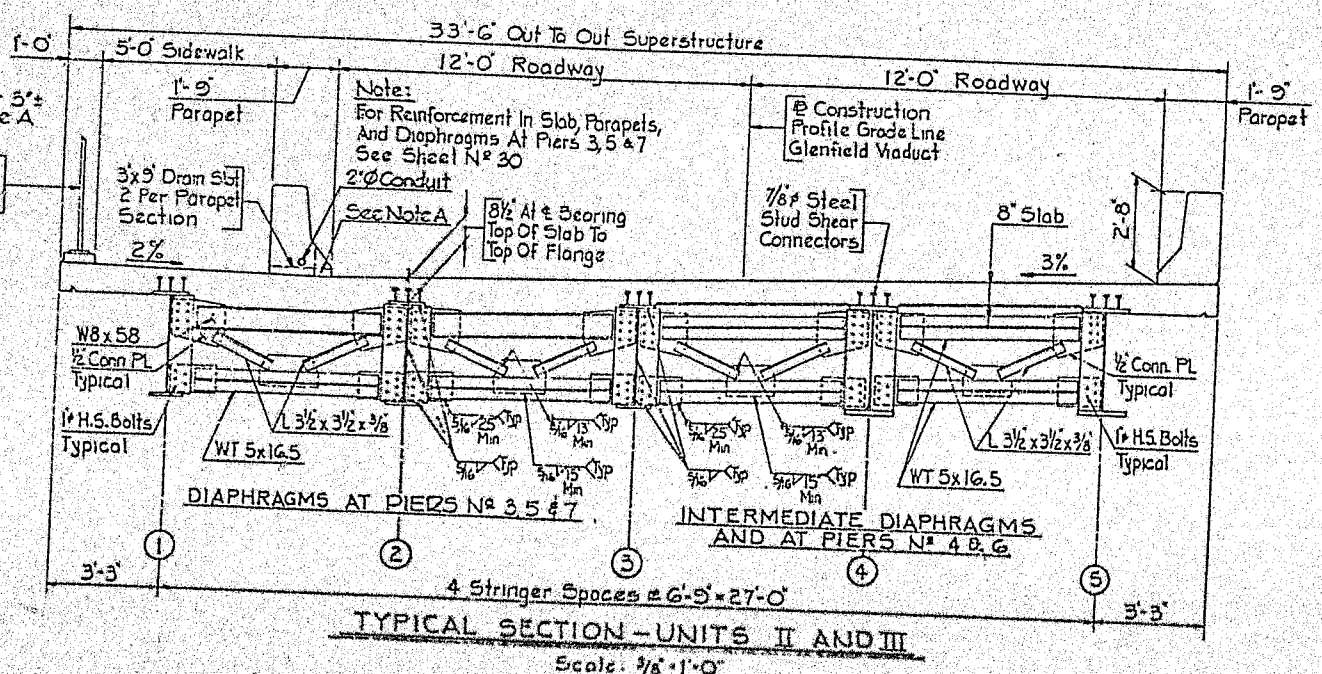
SHEET 21 OF 32
S-16201

Note:
All Diaphragms On Curved Portion Of Bridge Are Radial.

Measured Along ℄ Construction



FRAMING PLAN — UNITS II AND III
Scale: 1" = 10'



TYPICAL SECTION — UNITS II AND III
Scale: ⅜" = 1'-0"

CERTIFIED CORRECT PLANS

Approved by PENNA. PUBLIC UTILITY COMMISSION

Attest: Secretary

MAR 5 1987

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

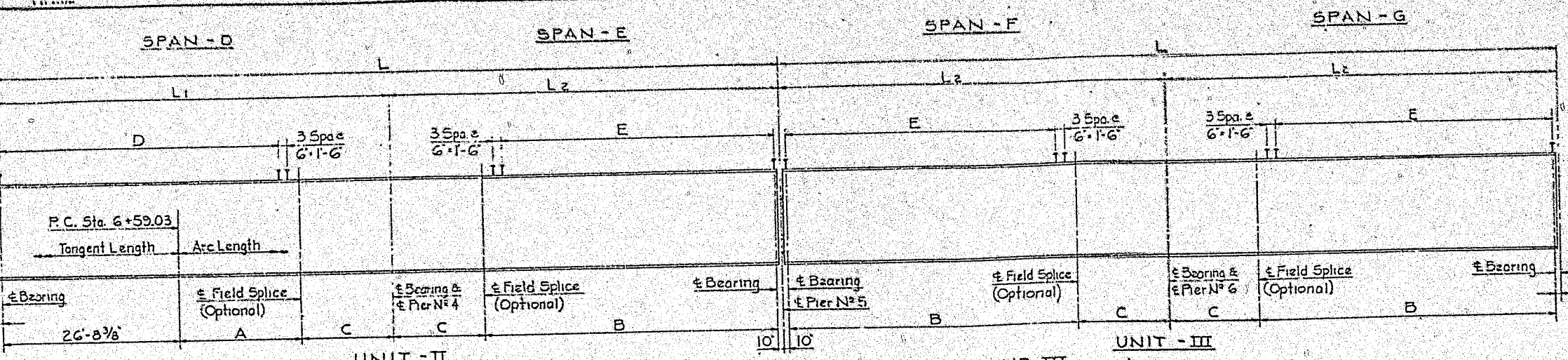
Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
FRAMING PLAN, UNITS II & III

RECOMMENDED _____

SHEET 12 OF 32



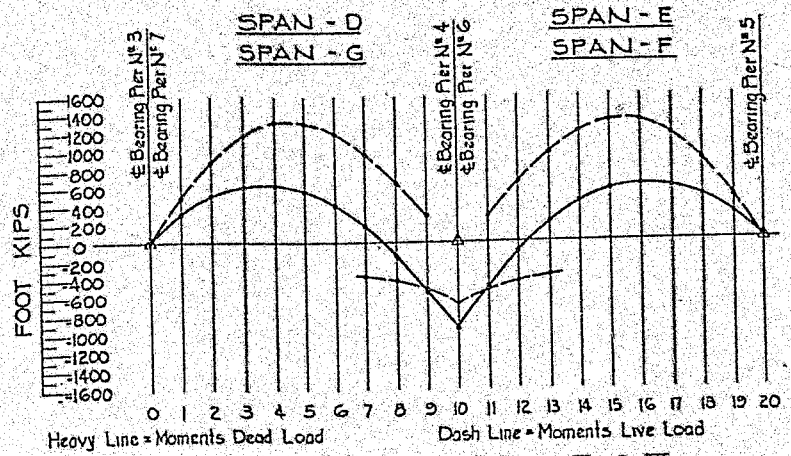
TYPICAL STRINGER ELEVATION — UNITS II AND III

No Scale

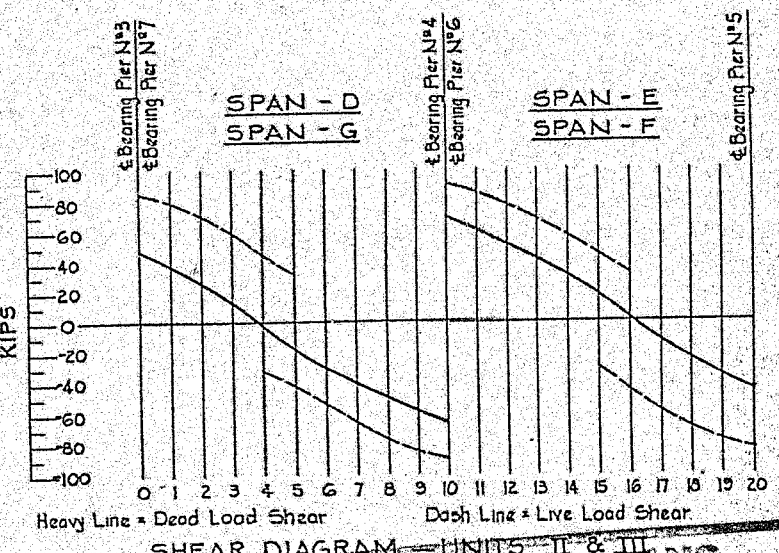
Note:
All Web Plates, Flange Plates, Stiffener Plates, Connection Plates, Splice Plates, Fill Plates And Diaphragms Shall Be A572 Grade 50 Steel

STRINGER SCHEDULE

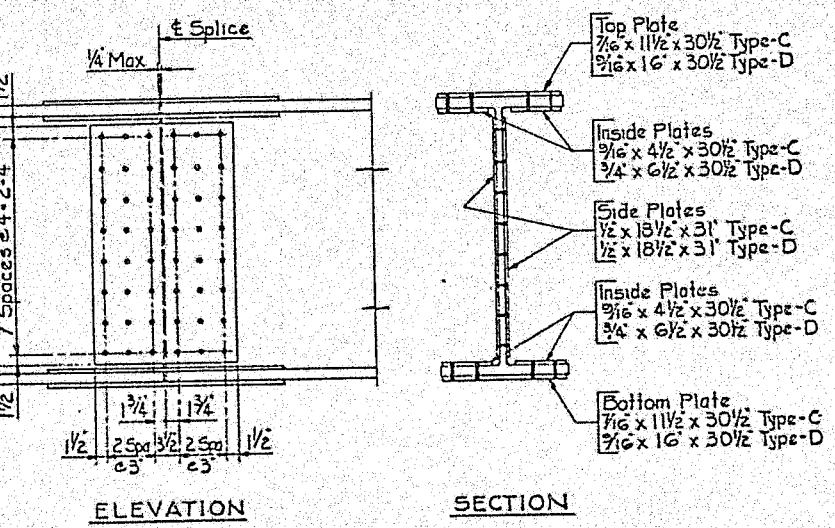
GER	SIZE	RADIUS	STRINGER LENGTHS			DIMENSIONS		SPLICES		SHEAR DEVELOPERS	
			L	L1	L2	A	B	TYPE	C	D	E
	W36x160	163.50	119'-0¼"	60'-8 13/16"	58'-3 7/16"	20'-2 3/16"	44'-5 5/16"	C	13'-10¼"	42 Spa @ 12½"	39 Spa @ 12½"
	W36x160	170.25	122'-9 15/16"	62'-1 5/8"	60'-8 5/16"	21'-0 1/8"	46'-3 7/16"	C	14'-5 1/8"	42 Spa @ 12½"	41 Spa @ 12½"
	W36x160	177.00	126'-7 11/16"	63'-6 1/2"	63'-1 3/16"	21'-10 1/8"	48'-1 5/16"	C	15'-0"	43 Spa @ 12½"	43 Spa @ 12½"
	W36x245	183.75	130'-5 7/16"	64'-11 3/8"	65'-6 1/16"	22'-8 1/8"	49'-11 5/16"	D	15'-6 7/8"	48 Spa @ 11½"	48 Spa @ 11½"
	W36x245	190.50	134'-3 3/16"	66'-4 1/4"	67'-10 15/16"	23'-6 1/8"	51'-9 3/16"	D	16'-1 3/4"	49 Spa @ 11½"	50 Spa @ 11½"
	W36x160	163.50	116'-6 7/8"	—	58'-3 7/16"	—	44'-5 5/16"	C	13'-10¼"	—	39 Spa @ 12½"
	W36x160	170.25	121'-4 5/8"	—	60'-8 5/16"	—	46'-3 7/16"	C	14'-5 1/8"	—	41 Spa @ 12½"
	W36x160	177.00	126'-2 3/8"	—	63'-1 3/16"	—	48'-1 5/16"	C	15'-0"	—	43 Spa @ 12½"
	W36x245	183.75	131'-0 1/8"	—	65'-6 1/16"	—	49'-11 5/16"	D	15'-6 7/8"	—	48 Spa @ 11½"
	W36x245	190.50	135'-9 7/8"	—	67'-10 15/16"	—	51'-9 3/16"	D	16'-1 3/4"	—	50 Spa @ 11½"

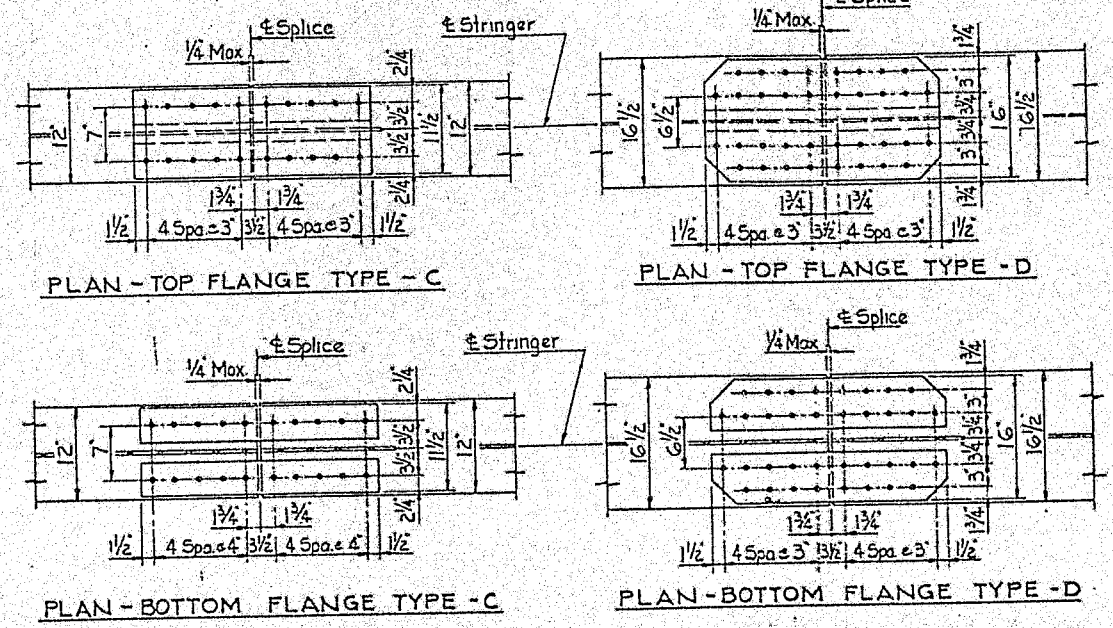


MOMENT DIAGRAM — UNITS II & III



SHEAR DIAGRAM — UNITS II & III





FIELD SPLICE DETAILS

Scale: 1"=1'-0"

CERTIFIED CORRECT PLANS

Engineer

Approved by
PENNA. PUBLIC UTILITY COMMISSION

Attest: Secretary

MAR 5 1987

Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9-88.80 OVER
EAST BEAVER STREET STA. 16-96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE

STRINGER DETAILS, UNITS II & III

RECOMMENDED _____
BRIDGE ENGINEER

SHEET 23 OF 32

S-16201

UNIT II & UNIT III ~ CAMBER ORDINATES Y, INCHES

ION	STRINGER NO.	SPAN D										SPAN E										SPAN F										SPAN G									
		℄ BEARING ℄ PIER NO.3	1/10	1/5	3/10	2/5	1/2	3/5	7/10	F.S.	4/5	9/10	℄ BEARING ℄ PIER NO.4	1/10	1/5	F.S.	3/10	2/5	1/2	3/5	7/10	4/5	9/10	℄ BEARING ℄ PIER NO.5	℄ BEARING ℄ PIER NO.5	1/10	1/5	3/10	2/5	1/2	3/5	7/10	F.S.	4/5	9/10	℄ BEARING ℄ PIER NO.6	1/10	1/5	F.S.	3/10	2/5	1/2	3/5	7/10	4/5	9/10	℄ BEARING ℄ PIER NO.7
STEEL	1	0	0	1/16"	1/8"	1/8"	1/16"	1/16"	1/16"	0	0	0	0	0	0	1/16"	1/16"	1/16"	1/8"	1/8"	1/16"	0	0	0	0	0	1/16"	1/8"	1/8"	1/16"	1/16"	1"	0	0	0	0	0	0	0	1/16"	1/16"	1/16"	1/8"	1/8"	1/16"	0	0
	2	0	0	1/16"	1/8"	1/8"	1/8"	1/8"	1/16"	1/16"	0	0	0	0	0	1/16"	1/16"	1/8"	1/8"	1/8"	1/8"	1/16"	0	0	0	0	1/16"	1/8"	1/8"	1/8"	1/2	1/16"	1/16"	0	0	0	0	0	0	1/16"	1/8"	1/8"	1/8"	1/8"	1/16"	0	0
	3	0	1/16"	1/16"	1/8"	3/16"	1/8"	1/8"	1/16"	1/16"	1/16"	0	0	0	1/16"	1/16"	1/16"	1/8"	1/8"	3/16"	1/8"	1/16"	1/16"	0	0	0	1/16"	1/8"	1/8"	3/16"	1/8"	1/8"	1/16"	1/16"	0	0	0	0	0	1/16"	1/16"	1/8"	1/8"	1/8"	1/16"	0	0
	4	0	1/16"	1/8"	3/16"	3/16"	3/16"	1/8"	1/8"	1/16"	1/16"	0	0	0	1/16"	1/16"	1/8"	1/8"	3/16"	3/16"	3/16"	1/8"	1/16"	0	0	0	1/16"	1/8"	3/16"	3/16"	3/16"	1/8"	1/8"	1/16"	1/16"	0	0	0	0	1/16"	1/16"	1/8"	1/8"	3/16"	1/8"	1/16"	0
	5	0	1/16"	1/8"	3/16"	1/4"	3/16"	3/16"	1/8"	1/8"	1/16"	0	0	0	1/16"	1/8"	1/8"	3/16"	3/16"	1/4"	3/16"	1/8"	1/16"	0	0	0	1/16"	1/8"	3/16"	1/4"	3/16"	3/16"	1/8"	1/8"	1/16"	0	0	0	0	1/16"	1/16"	1/8"	1/8"	3/16"	3/16"	1/8"	0
DECK SLAB	1	0	3/16"	5/16"	7/16"	7/16"	7/16"	3/8"	1/4"	3/16"	1/8"	0	0	0	1/8"	3/16"	1/4"	3/8"	7/16"	7/16"	7/16"	5/16"	3/16"	0	0	0	3/16"	5/16"	7/16"	7/16"	7/16"	3/8"	1/4"	3/16"	1/8"	0	0	0	0	1/8"	3/16"	1/4"	3/8"	7/16"	7/16"	5/16"	0
	2	0	3/16"	3/8"	1/2"	9/16"	9/16"	7/16"	5/16"	1/4"	3/16"	1/16"	0	1/16"	3/16"	1/4"	5/16"	7/16"	9/16"	9/16"	1/2"	3/8"	3/16"	0	0	0	3/16"	3/8"	1/2"	9/16"	9/16"	7/16"	5/16"	1/4"	3/16"	1/16"	0	0	0	1/16"	3/16"	1/4"	5/16"	7/16"	9/16"	1/2"	3/8"	3/16"
	3	0	3/16"	3/8"	1/2"	9/16"	9/16"	1/2"	5/16"	1/16"	1/16"	0	0	1/16"	3/16"	1/4"	5/16"	1/2"	9/16"	9/16"	1/2"	3/8"	3/16"	0	0	0	3/16"	3/8"	1/2"	9/16"	9/16"	1/2"	5/16"	1/4"	3/16"	1/16"	0	0	0	1/16"	3/16"	1/4"	5/16"	1/2"	9/16"	9/16"	1/2"	3/8"	3/16"
	4	0	3/16"	3/8"	1/2"	9/16"	1/2"	7/16"	5/16"	3/16"	1/8"	0	0	0	1/8"	3/16"	5/16"	7/16"	1/2"	9/16"	1/2"	3/8"	3/16"	0	0	0	3/16"	3/8"	1/2"	9/16"	1/2"	7/16"	5/16"	3/16"	1/8"	0	0	0	0	1/8"	3/16"	5/16"	7/16"	1/2"	9/16"	1/2"	3/8"	3/16"
	5	0	1/4"	7/16"	9/16"	5/8"	9/16"	1/2"	3/8"	1/4"	3/16"	1/16"	0	1/16"	3/16"	1/4"	3/8"	1/2"	9/16"	5/8"	9/16"	7/16"	1/4"	0	0	0	1/4"	7/16"	9/16"	5/8"	9/16"	1/2"	3/8"	1/4"	3/16"	1/16"	0	0	0	1/16"	3/16"	1/4"	3/8"	1/2"	9/16"	5/8"	9/16"	3/16"
GED DEAD	1	0	0	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	0	0	0	0	0	0	0	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	0	0	0	0	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	0	0	0	0	0	0	0	0	0	0	1/16"	1/16"	1/16"	1/16"	1/16"	0
	2	0	0	1/16"	1/8"	1/8"	1/8"	1/8"	1/16"	1/16"	0	0	0	0	0	1/16"	1/16"	1/8"	1/8"	1/8"	1/8"	1/16"	0	0	0	0	1/16"	1/8"	1/8"	1/8"	1/8"	1/16"	1/16"	0	0	0	0	0	0	0	0	1/16"	1/8"	1/8"	1/8"	1/8"	1/16"	0
	3	0	0	1/16"	1/8"	1/8"	1/8"	1/8"	1/16"	1/16"	1/16"	0	0	0	0	1/16"	1/16"	1/16"	1/8"	1/8"	1/8"	1/8"	1/16"	0	0	0	0	1/16"	1/8"	1/8"	1/8"	1/8"	1/16"	1/16"	0	0	0	0	0	0	0	0	1/16"	1/16"	1/8"	1/8"	1/8"	1/16"	0
	4	0	1/16"	1/8"	1/8"	1/8"	1/8"	1/8"	1/16"	1/16"	0	0	0	0	0	1/16"	1/16"	1/8"	1/8"	1/8"	1/8"	1/8"	1/16"	0	0	0	0	1/16"	1/16"	1/16"	1/16"	1/8"	1/8"	1/8"	1/8"	1/16"	0	0	0	0	0	1/16"	1/16"	1/8"	1/8"	1/8"	1/8"	1/16"	0
	5	0	1/16"	1/8"	3/16"	3/16"	3/16"	1/8"	1/8"	1/8"	1/16"	0	0	0	1/16"	1/8"	1/8"	1/8"	3/16"	3/16"	3/16"	1/8"	1/16"	0	0	0	1/16"	1/8"	3/16"	3/16"	3/16"	1/8"	1/8"	1/8"	1/16"	0	0	0	0	0	1/16"	1/8"	1/8"	1/8"	1/8"	1/8"	1/16"	0
	1	0	3/16"	7/16"	5/8"	5/8"	9/16"	1/2"	3/8"	3/16"	1/8"	0	0	0	1/8"	3/16"	3/8"	1/2"	9/16"	5/8"	5/8"	7/16"	3/16"	0	0	0	3/16"	7/16"	5/8"	5/8"	9/16"	1/2"	3/8"	3/16"	1/8"	0	0	0	0	1/8"	3/16"	3/8"	1/2"	9/16"	5/8"	5/8"	7/16"	3/16"	0
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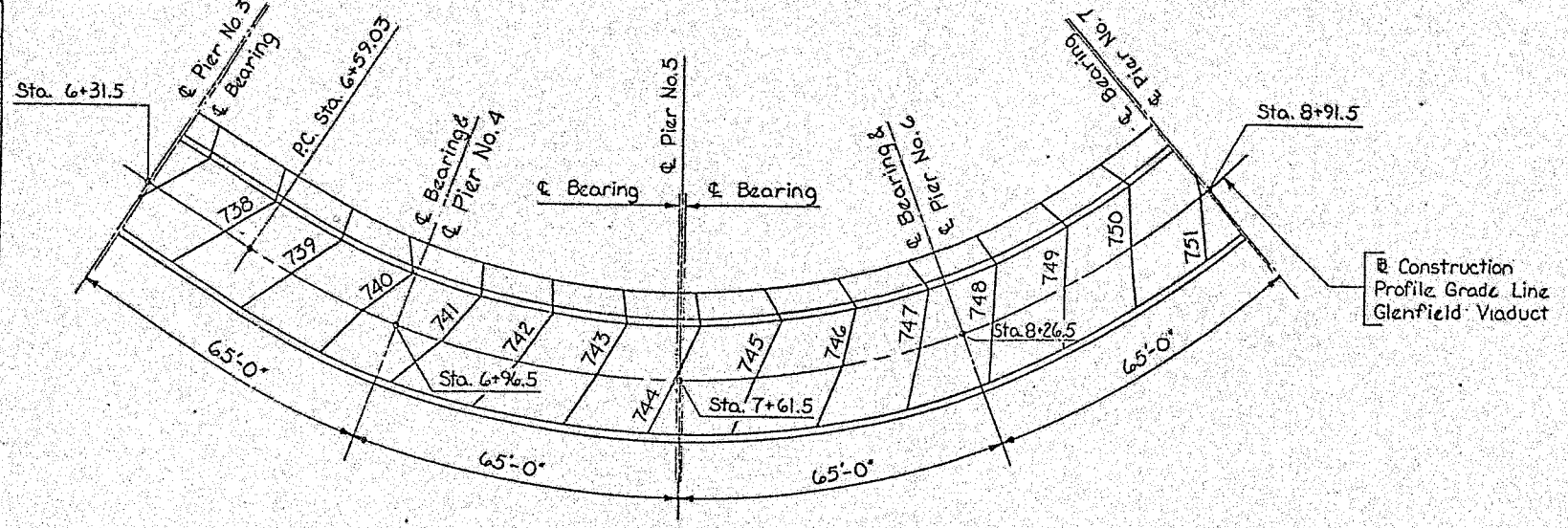
	3	0	1/4"	1/2"	3/4"	7/8"	13/16"	3/4"	7/16"	3/8"	5/16"	1/16"	0	1/16"	5/16"	3/8"	7/16"	3/4"	13/16"	7/8"	3/4"	1/2"	1/4"	0	0	0	1/4"	1/2"	3/4"	7/8"	13/16"	3/4"	7/16"	3/8"	5/16"	1/16"	0	0	0	1/16"	5/16"	3/8"	7/16"	3/4"	13/16"	7/8"	3/4"	1/2"	1/4"	0
	4	0	5/16"	5/8"	7/8"	7/8"	15/16"	11/16"	1/2"	5/16"	3/16"	0	0	0	3/16"	5/16"	1/2"	11/16"	13/16"	7/8"	7/8"	5/8"	5/16"	0	0	0	5/16"	5/8"	7/8"	7/8"	15/16"	11/16"	1/2"	5/16"	3/16"	0	0	0	0	3/16"	5/16"	1/2"	11/16"	13/16"	7/8"	7/8"	5/8"	5/16"	0
	5	0	3/8"	11/16"	15/16"	11/16"	13/16"	15/16"	5/8"	1/2"	5/16"	1/16"	0	1/16"	5/16"	1/2"	5/8"	15/16"	15/16"	11/16"	15/16"	11/16"	3/8"	0	0	0	3/8"	11/16"	15/16"	11/16"	15/16"	13/16"	5/8"	1/2"	5/16"	1/16"	0	0	0	1/16"	5/16"	1/2"	5/8"	13/16"	15/16"	11/16"	15/16"	7/16"	0

ELEVATION SCHEDULE

LK	N.G.	℄	S.G.
3	736.98	737.34	737.70
8	737.52	737.88	738.24
2	738.06	738.42	738.78
6	738.61	738.97	739.33
1	739.15	739.51	739.87
5	739.70	740.06	740.42
0	740.24	740.60	740.96
4	740.78	741.14	741.50
8	741.33	741.69	742.05
3	741.87	742.23	742.59
7	742.42	742.78	743.14
2	742.96	743.32	743.68
6	743.50	743.86	744.22
0	744.05	744.41	744.77
5	744.59	744.95	745.31
9	745.14	745.50	745.86
4	745.68	746.04	746.40
8	746.22	746.58	746.94
2	746.77	747.13	747.49
7	747.31	747.67	748.03
01	747.86	748.22	748.58
6	748.40	748.76	749.12
0	748.94	749.30	749.66
4	749.49	749.85	750.21
9	750.03	750.39	750.75
3	750.58	750.94	751.30
8	751.12	751.48	751.84

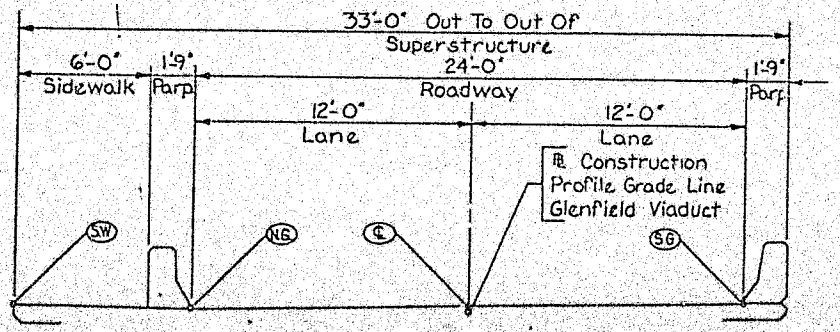
ADWAY ELEVATION SCHEDULE

NIT II		UNIT III		
3 ℄ BEARING	℄ BEARING	℄ BEARING	℄ BEARING	℄ BEARING
6 ℄ PIER NO.4	℄ PIER NO.5	℄ PIER NO.5	℄ PIER NO.6	℄ PIER NO.7
740.14	743.63	743.72	747.21	750.70
740.12	743.61	743.70	747.19	750.68
740.32	743.81	743.90	747.39	750.88
740.52	744.01	744.10	747.59	751.09



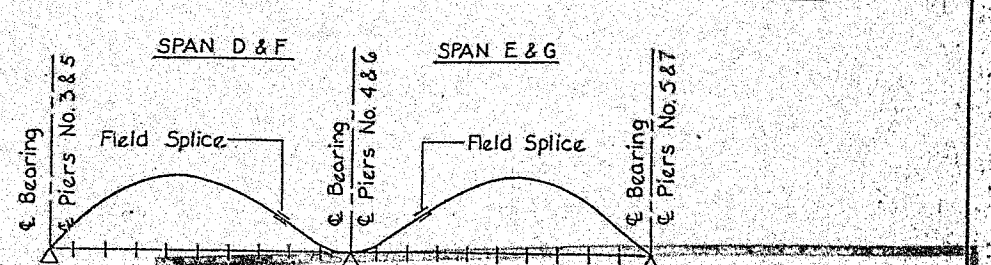
CONTOUR PLAN

Scale: 1"=20'



TYPICAL DECK SECTION

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



CONTRACT PLANS

Chief Bridge Engineer

Secretary of Transportation

Approved by
PENNA. PUBLIC UTILITY COMMISSION

Attest:

Mark	Description	By	Chk'd.	App'd.	Date
					MAR 5 1987

REVISIONS

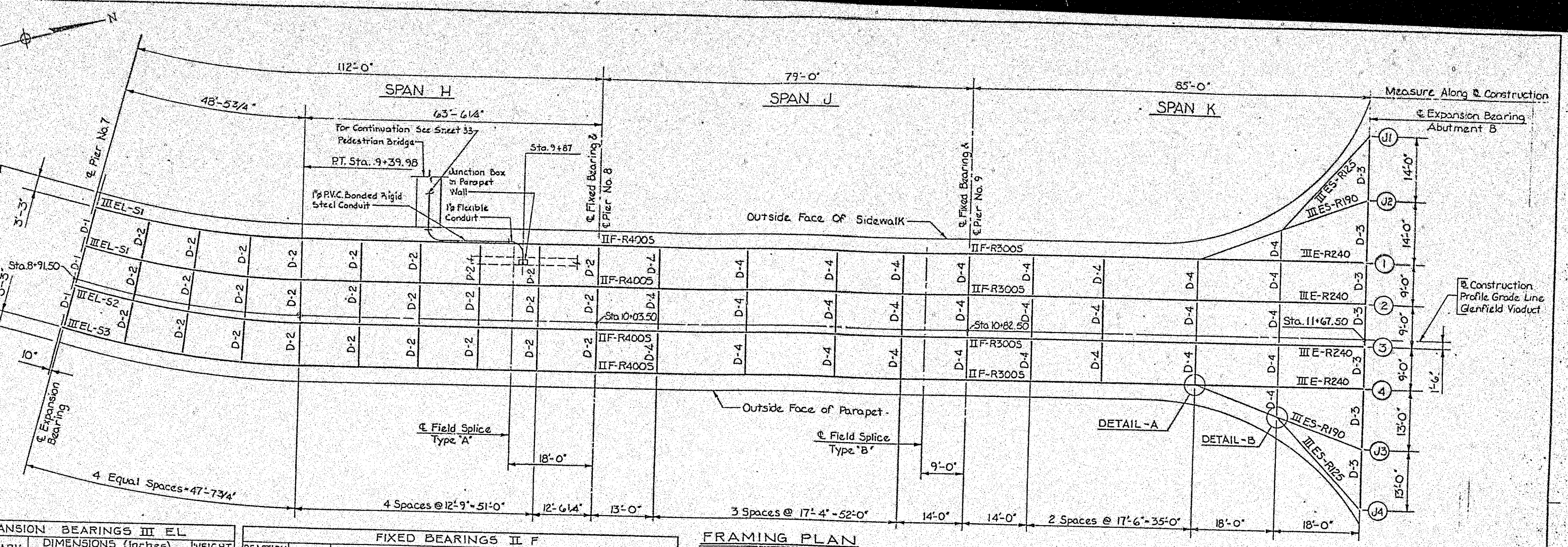
Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
CAMBER & ELEV. SCHEDULES - UNITS II & III

RECOMMENDED _____
BRIDGE ENGINEER

SHEET 22 OF 22

S-16201



FRAMING PLAN

Scale: 1" = 10'

EXPANSION BEARINGS III EL

MARK	DIMENSIONS (Inches) b	B	ℓ	L	S	T1	T2	T	WEIGHT (Lbs)
S1	8"	16"	13"	27½	9½	1½	1¾	1½	310
S2	8"	18"	13"	29½	9½	1½	1¾	1½	335
S3	8"	22"	13"	33½	9½	1½	1¾	1½	390

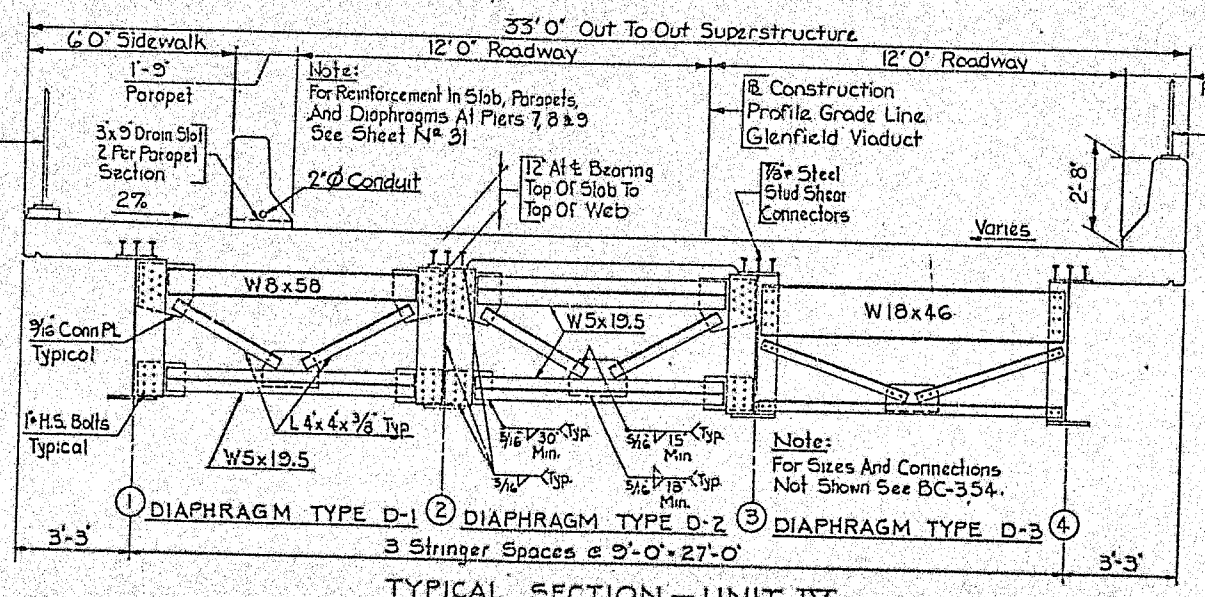
Details See BC-356A

FIXED BEARINGS II F

REACTION (Kips)	MARK	DIMENSIONS (Inches) S	ℓ	L	T1	T2	T3 (Beneath T2) *	SLOTTED HOLES T1	T2	WEIGHT (Lbs)
300	R3005	10"	12"	20"	2¾	2¾	¾ x 13½ x 27½ W/1⅛" Hole	1⅜ x 2"	1¾ x 2"	520
400	R4005	11"	14"	30"	3"	3"	¾ x 15½ x 31½ W/1⅛" Hole	2" x 2¼"	2" x 2¼"	735

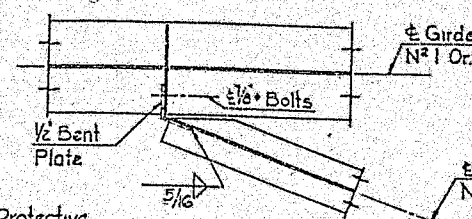
Note: For Details See BC-355A

* ½" Field Weld Both Sides Of PL T3 After Adjustment.



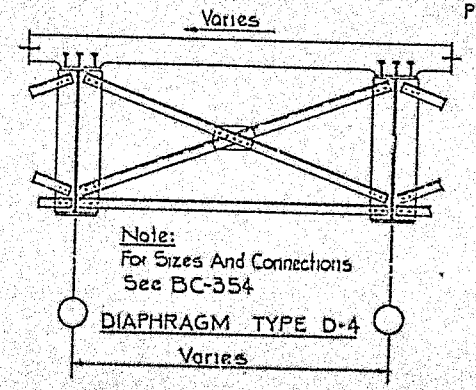
TYPICAL SECTION — UNIT IV

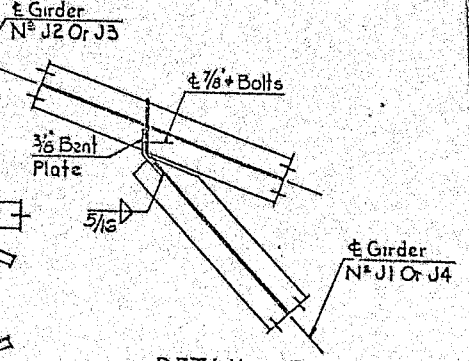
Scale: ⅜" = 1'-0"



DETAIL - A

Scale: ⅜" = 1'-0"





DETAIL - B

Scale: ⅜" = 1'-0"

CERTIFIED CORRECT PLANS

Donald P. Hasle Engineer

B. P. Richman

Approved by PENNA. PUBLIC UTILITY

Attest: Secretary

MAR 5 1987

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

Commonwealth of Pennsylvania

DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67

10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE

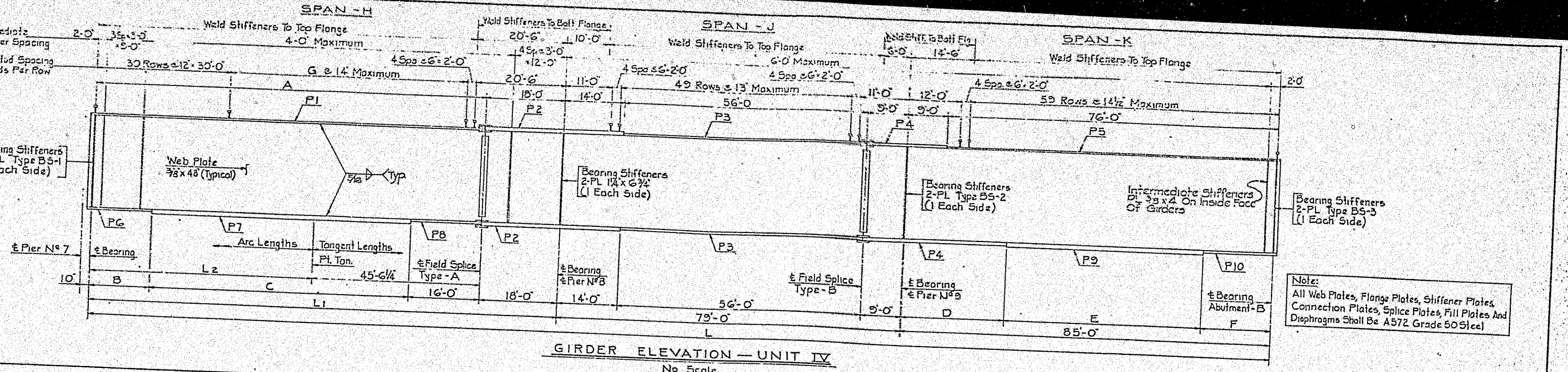
FRAMING PLAN - UNIT IV

RECOMMENDED _____

BRIDGE ENGINEER

SHEET 22 OF 39

S-1620

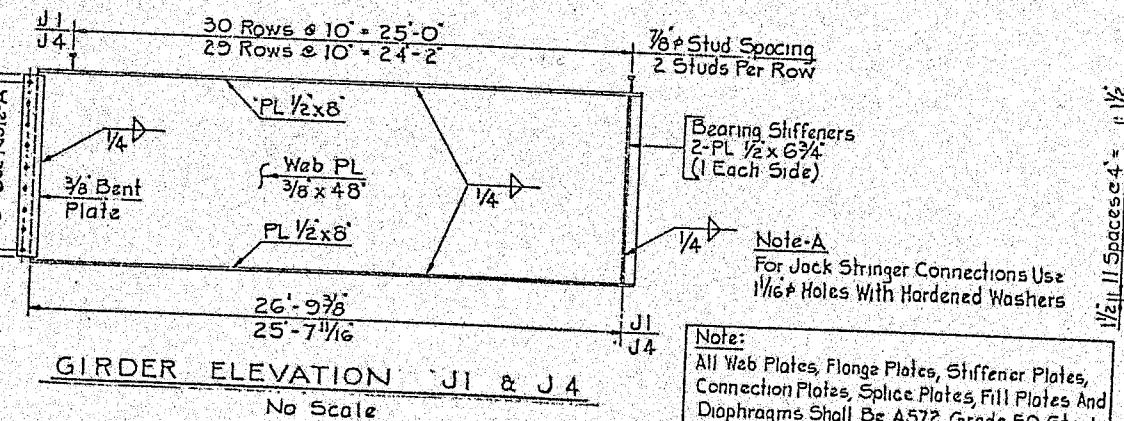


GIRDER ELEVATION — UNIT IV

No Scale

GIRDER DIMENSION SCHEDULE

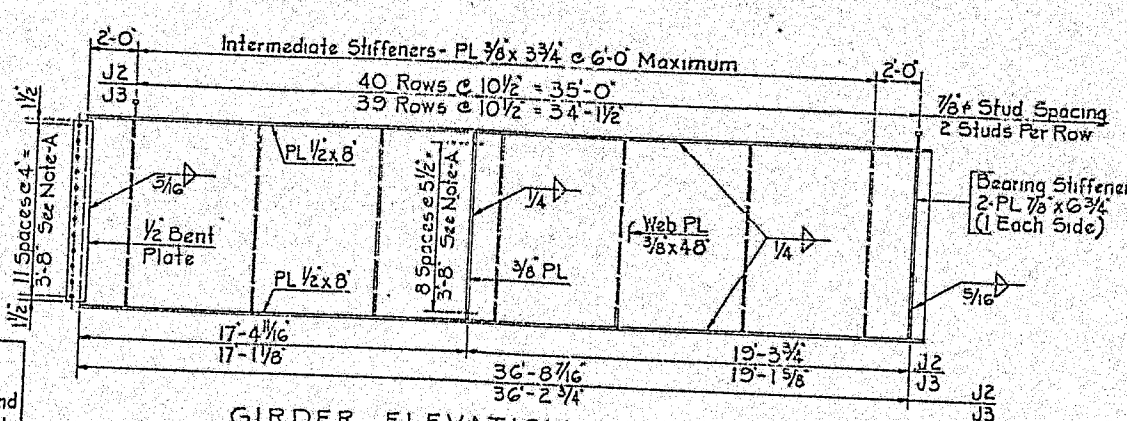
RADIUS	GIRDER LENGTHS			FLANGE PLATE LENGTHS						STUD SPAC	FLANGE PLATE SIZES										BEARING STIFFENER SIZES			SPLICE TYPES	
	L	L1	L2	A	B	C	D	E	F	G	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	BS-1	BS-2	BS-3		
163.50	270'-8 11/16"	106'-8 11/16"	43'-2 7/16"	88'-8 11/16"	13'-9"	58'-11 11/16"	24'-0"	45'-0"	16'-0"	47 Rows	1"x14"	1½"x14"	1"x14"	1 1/8"x16"	7/8"x16"	1"x16"	2"x16"	1"x16"	2"x16"	1"x16"	1 1/8"x7¾"	1¼"x7¾"	7/8"x7¾"	A1	B
172.50	273'-1¾"	109'-1¾"	45'-7½"	91'-1¾"	14'-6"	60'-7¾"	85'-0"	—	—	49 Rows	1"x14"	1½"x14"	1"x14"	1"x14"	¾"x14"	1"x16"	2"x16"	1"x16"	—	—	1 1/8"x7¾"	1¼"x6¾"	7/8"x6¾"	A1	B
181.50	275'-6 7/8"	111'-6 7/8"	48'-0 5/8"	93'-6 7/8"	15'-3"	62'-3 7/8"	85'-0"	—	—	51 Rows	1¼"x16"	2"x14"	1"x14"	1"x14"	¾"x14"	1"x18"	2"x18"	1"x18"	—	—	1 1/8"x8¾"	1¼"x6¾"	7/8"x6¾"	A2	B
190.50	277'-11 5/16"	113'-11 5/16"	50'-5 1/16"	95'-11 5/16"	16'-0"	63'-11 5/16"	24'-0"	45'-0"	16'-0"	53 Rows	1¼"x16"	2"x14"	1"x14"	1 1/8"x16"	7/8"x16"	1"x22"	2"x22"	1 1/8"x22"	2"x16"	1"x16"	1 1/8"x10¾"	1¼"x7¾"	7/8"x7¾"	A3	B



GIRDER ELEVATION J1 & J4

No Scale

Note:
All Web Plates, Flange Plates, Stiffener Plates,
Connection Plates, Splice Plates, Fill Plates And
Diaphragms Shall Be A572 Grade 50 Steel



GIRDER ELEVATION J2 & J3

No Scale

NOTE

CONTRACTOR MAY, AT HIS OPTION AND AT NO ADDITIONAL COST TO PENN DOT, SUBSTITUTE A 3/8" THICK WEB PLATE WITHOUT INTERMEDIATE STIFFENERS BETWEEN CROSS FRAMES FOR THE 3/8" THICK WEB PLATE WITH INTERMEDIATE STIFFENERS SHOWN ON THE PLANS. IF THE OPTIONAL WEB PLATE IS USED, CONTRACTOR SHALL SUBMIT CALCULATIONS AND DRAWINGS FOR FIELD SPLICES, WELD SIZES AND DEFLECTIONS TO PENN DOT FOR REVIEW AND APPROVAL, PRIOR TO FABRICATION OF THE GIRDERS.

CERTIFIED COPIES

Engineer

Approved by
PENNA. PUBLIC UTILITY COMM.

Attest:

Secretary

MAR 5 1987

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

Commonwealth of Pennsylvania

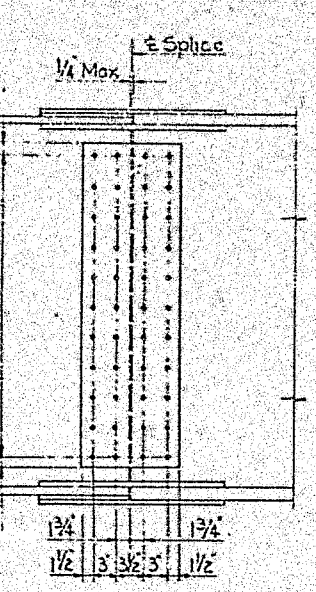
DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAY DESIGN

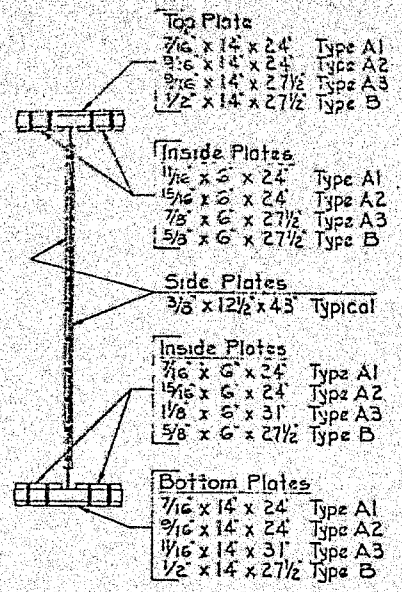
ALLEGHENY COUNTY
GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE

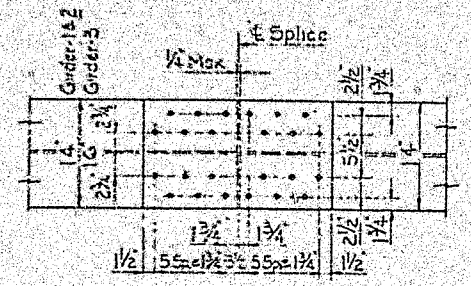
STRINGER DETAILS — UNIT IV



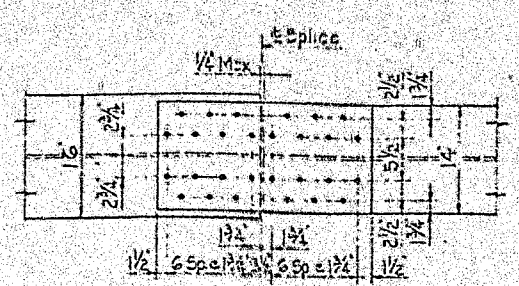
ELEVATION



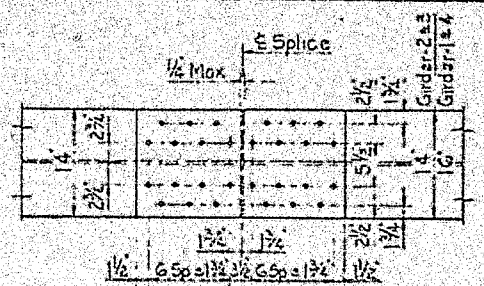
SECTION



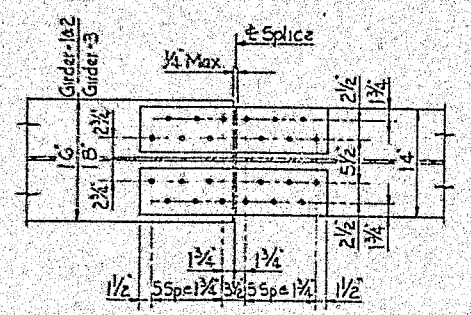
PLAN - TOP FLANGE - TYPE A1 & A2



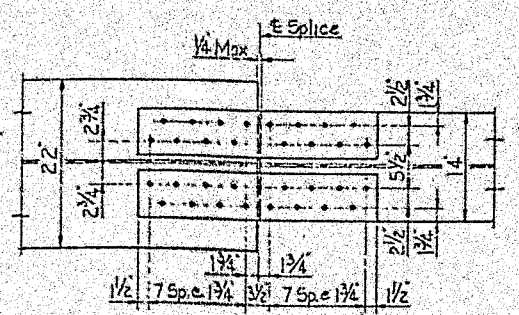
PLAN - TOP FLANGE - TYPE A3



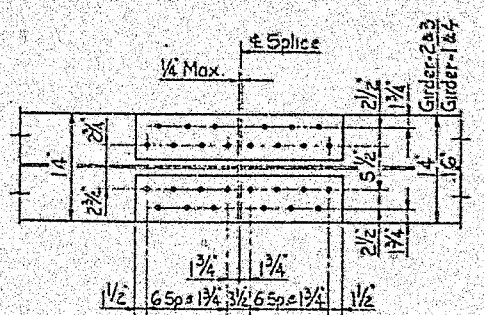
PLAN - TOP FLANGE - TYPE B



PLAN - BOTTOM FLANGE - TYPE A1 & A2



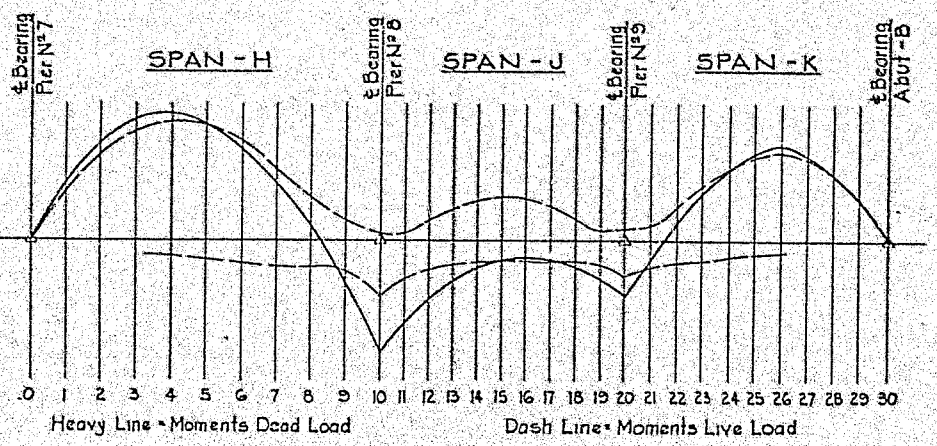
PLAN - BOTTOM FLANGE - TYPE A3



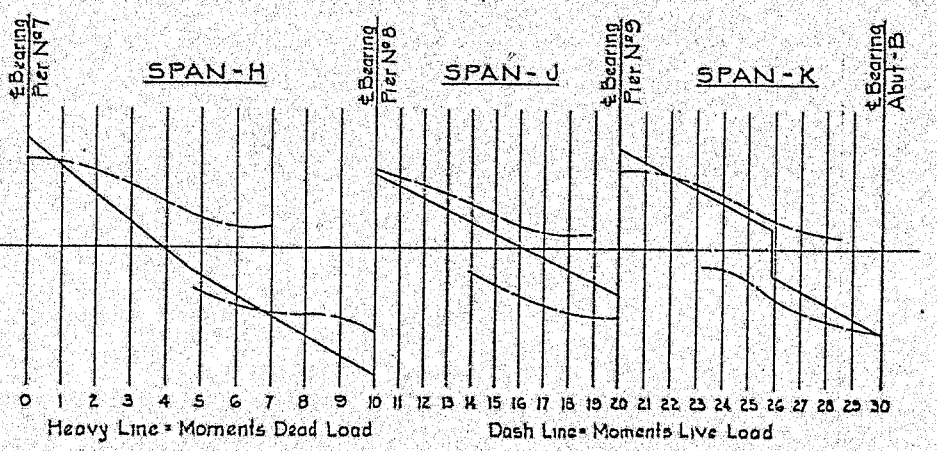
PLAN - BOTTOM FLANGE - TYPE B

FIELD SPLICE DETAILS

Scale: 1" = 1'-0"



MOMENT DIAGRAM — UNIT - IV



MOMENT DIAGRAM — UNIT - IV

CERTIFIED CORRECT PLANS

Donald R. Klesh — B. L. Schwarz

Approved by PENNA. PUBLIC UTILITY COMMISSION

Attest: _____ Secretary

MAR 5 1987

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

Commonwealth of Pennsylvania

DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY

GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67

10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE

STRINGER SPLICES & DETAILS — UNIT IV

RECOMMENDED _____

BRIDGE ENGINEER

SHEET 22 OF 32

S-16201

UNIT IV ~ CAMBER ORDINATES Y, INCHES

DESCRIPTION	STRINGER NO.	SPAN H: ℄ BEARING PIER NO.7	1/10	1/5	3/10	2/5	1/2	3/5	7/10	4/5	FS	9/10	℄ BEARING PIER NO.8
D T OF STEEL	1	0	3/16	5/16	7/16	7/16	7/16	5/16	5/16	3/16	3/16	1/16	0
	2	0	5/16	1/2	5/8	3/4	7/8	3/4	7/16	5/16	1/4	1/8	0
	3	0	3/8	5/8	13/16	7/8	1"	3/4	5/8	3/8	1/4	1/8	0
	4	0	1/2	1 1/16	1 1/16	1"	1/16	1/16	1/2	7/16	1/16	1/16	0
D T OF DECK SLAB	1	0	13/16	1 7/16	1 11/16	1 15/16	1 7/8	1 5/8	1 5/16	7/8	1/16	3/16	0
	2	0	1 1/16	1 9/16	2 3/16	2 1/16	2 1/16	1 7/8	1 11/16	1 1/8	1/8	1/2	0
	3	0	1 1/16	2 1/16	2 9/16	3 1/16	2 7/8	2 1/2	2"	1 5/16	1"	5/16	0
	4	0	1 1/2	2 11/16	3 3/16	3 3/16	3 7/16	3"	2 9/16	1 7/8	1 11/16	1 1/16	0
MPOSED DEAD LOAD	1	0	5/16	5/16	3/8	7/16	7/16	5/8	3/16	1/4	5/16	1/16	0
	2	0	1/4	3/8	1/2	9/16	9/16	1/2	7/16	5/16	1/2	1/8	0
	3	0	1/4	1/2	5/8	11/16	11/16	5/8	9/16	3/8	1/4	3/16	0
	4	0	5/16	3/8	13/16	7/8	7/8	13/16	3/8	7/16	5/16	3/16	0
SUPERELEVATION R VERTICAL CURVE	1	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	1/16	1/16	1/16	1/16	0	-1/16	-1/16	-1/16	0	0
	3	0	1/8	3/16	5/16	5/16	5/16	1/16	-1/16	-1/16	-1/16	0	0
	4	0	1/2	15/16	1 1/16	1 1/16	1 1/16	11/16	3/16	5/16	5/16	3/16	0
	1	0	13/16	1 7/16	1 11/16	1 15/16	1 7/8	1 5/8	1 5/16	1 1/16	9/16	3/16	0
	2	0	15/16	1 13/16	2 1/16	2 1/16	2 1/16	1 7/8	1 5/8	1 1/4	3/4	1/4	0
	3	0	2"	2 3/16	2 7/16	2 7/16	2 7/16	2 1/16	1 13/16	1 7/16	1"	5/16	0
TOTAL	4	0	2 7/16	2 5/16	2 9/16	2 11/16	2 13/16	2 5/16	2 1/16	1 5/8	1 1/2	1 1/2"	0

DESCRIPTION	SPAN J: ℄ BEARING PIER NO.8	1/10	1/5	3/10	2/5	1/2	3/5	7/10	4/5	FS	9/10	℄ BEARING PIER NO.9
D T OF STEEL	0	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	0
	0	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	0
	0	-1/16	-1/16	-3/16	-3/16	-3/16	-3/16	-1/16	-1/16	-1/16	-1/16	0
	0	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	0
D T OF DECK SLAB	0	-3/16	-1/4	-5/16	-5/16	-5/16	-5/16	-5/16	-1/4	-5/16	-1/8	0
	0	3/16	-5/16	-3/8	-3/8	-5/16	-5/16	-5/16	-1/8	-3/16	-1/8	0
	0	-1/16	-7/16	-1/2	-7/16	-1/2	-7/16	-7/16	-3/8	-5/16	-3/16	0
	0	-5/16	-9/16	-11/16	-3/4	-11/16	-1/2	-9/16	-7/16	-3/8	-1/4	0
D SUPERELEVATION R VERTICAL CURVE	0	0	-1/16	0	0	0	0	0	0	0	0	0
	0	-1/16	-1/16	-1/16	-1/16	0	-1/16	-1/16	-1/16	-1/16	-1/16	0
	0	-1/16	-1/16	-1/16	-1/16	-1/16	0	-1/16	-1/16	-1/16	-1/16	0
	0	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	0	-1/16	-1/16	-1/16	0
	0	1/16	1/16	1/16	1/16	1/16	1/16	1/16	0	-1/16	-1/16	0
	0	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	0	-1/16	0
	0	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	0	0
TOTAL	0	-1/4"	-3/16"	-5/16"	-5/16"	-7/16"	-7/16"	-1/4"	-1/4"	-3/16"	-1/16"	0
	0	-5/16"	-1/2"	-9/16"	-9/16"	-1/2"	-5/16"	-1/2"	-3/16"	-1/8"	-1/16"	0
	0	-3/8"	-10 1/16"	-15/16"	-15/16"	-7/8"	-13/16"	-9/16"	-1/2"	-5/16"	-1/16"	0
	0	-7/8"	-1 1/16"	-2"	-2 9/16"	-2 7/16"	-2 1/16"	-1 5/8"	-1 1/8"	-1/2"	-1/2"	0

DESCRIPTION	SPAN K: ℄ BEARING PIER NO.9	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	4 3/4	5	5 1/4	℄ BEARING ABUTMENT B
D T OF STEEL	0	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	0
	0	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	0
D T OF DECK SLAB	0	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	0
	0	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	0
D IMPOSED DEAD LOAD	0	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	0
	0	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	0
D SUPERELEVATION R VERTICAL CURVE	0	15/16	15/16	15/16	15/16	15/16	15/16	15/16	15/16	15/16	15/16	15/16	15/16	15/16	15/16	15/16	15/16	15/16	15/16	15/16	15/16	15/16	0
	0	1 1/16	1 1/16	1 1/16	1 1/16	1 1/16	1 1/16	1 1/16	1 1/16	1 1/16	1 1/16	1 1/16	1 1/16	1 1/16	1 1/16	1 1/16	1 1/16	1 1/16	1 1/16	1 1/16	1 1/16	1 1/16	0
	0	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	0
	0	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	-1/16	0
TOTAL	0	1 15/16	1 15/16	1 15/16	1 15/16	1 15/16	1 15/16	1 15/16	1 15/16	1 15/16	1 15/16	1 15/16	1 15/16	1 15/16	1 15/16	1 15/16	1 15/16	1 15/16	1 15/16	1 15/16	1 15/16	1 15/16	0
	0	1 11/16	1 11/16	1 11/16	1 11/16	1 11/16	1 11/16	1 11/16	1 11/16	1 11/16	1 11/16	1 11/16	1 11/16	1 11/16	1 11/16	1 11/16	1 11/16	1 11/16	1 11/16	1 11/16	1 11/16	1 11/16	0
	0	-3/16	-3/16	-3/16	-3/16	-3/16	-3/16	-3/16	-3/16	-3/16	-3/16	-3/16	-3/16	-3/16	-3/16	-3/16	-3/16	-3/16	-3/16	-3/16	-3/16	-3/16	0
	0	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	0

ROADWAY ELEVATION SCHEDULE

STATION	SIDEWALK	N.G.	℄	S.G.
9+00	751.28	751.12	751.48	751.84
9+10	751.82	751.64	752.02	752.38
9+20	752.34	752.21	752.57	752.93
9+30	752.91	752.75	753.11	753.47
9+40	753.45	753.30	753.66	754.02
9+50	754.00	753.84	754.16	754.49
9+60	754.54	754.35	754.67	754.96
9+70	755.08	754.93	755.18	755.43
9+80	755.63	755.47	755.71	755.90
9+90	756.17	756.02	756.26	756.38
10+00	756.72	756.56	756.80	756.85
10+10	757.26	757.10	757.34	757.32
10+20	757.80	757.65	757.89	757.79
10+30	758.35	758.19	758.43	758.26
10+40	758.89	758.74	758.98	758.74
10+50	759.44	759.28	759.52	759.28
10+60	759.98	759.82	760.06	759.82
10+70	760.52	760.37	760.61	760.37
10+80	761.06	760.91	761.15	760.91
10+90	761.54	761.30	761.65	761.35
11+00	762.01	761.65	761.10	761.84
11+10	762.32	762.03	762.51	762.24
11+20	762.63	762.4"	762.87	762.61
11+30	762.85	762.71	763.19	762.98
11+40	763.00	762.82	763.46	763.38
11+50	763.03	762.90	763.69	763.80
11+60	762.88	762.85	763.87	764.28

JACKSTRINGERS, CAMBER ORDINATES Y, INCHES

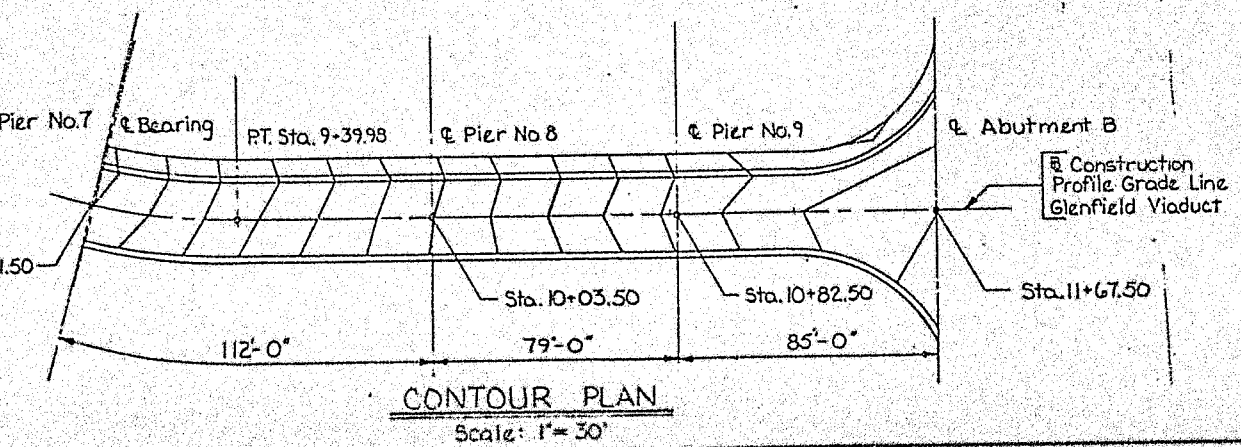
DESCRIPTION	STRINGER NO.	SPAN K: CONNECTION POINT	1/4	1/2	3/4	℄ BEARING ABUTMENT B
D T OF STEEL	J1	0	0	0	0	0
	J2	0	0	1/16	0	0
	J3	0	0	0	0	0
	J4	0	0	1/16"	0	0
D T OF DECK SLAB	J1	0	0	1/16"	0	0
	J2	0	1/4"	3/8"	1/4"	0
	J3	0	0	1/16"	0	0
	J4	0	1/4"	3/8"	1/4"	0
D IMPOSED DEAD LOAD	J1	0	0	0	0	0
	J2	0	1/16"	1/16"	1/16"	0
	J3	0	0	0	0	0
	J4	0	1/16"	1/16"	1/16"	0
D SUPERELEVATION R VERTICAL CURVE	J1	0	13/16"	15/16"	15/16"	0
	J2	0	15/16"	1 1/16"	3/8"	0
	J3	0	-3/8"	-1/4"	-3/8"	0
	J4	0	-1/8"	-1/4"	-1/8"	0
TOTAL	J1	0	13/16"	13/8"	15/16"	0
	J2	0	1 1/4"	1 15/16"	11/16"	0
	J3	0	-3/8"	-3/16"	-3/8"	0
	J4	0	3/16"	1/4"	3/16"	0

ROADWAY ELEVATION SCHEDULE
UNIT IV

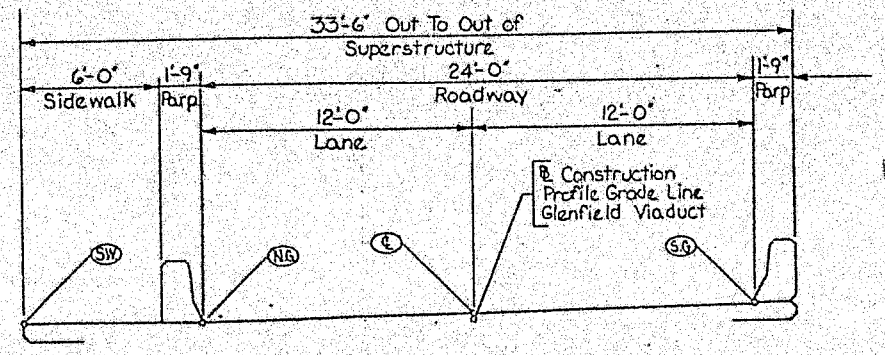
STRINGER NO.	℄ BEARING PIER NO.7	℄ BEARING PIER NO.8	℄ BEARING PIER NO.9	℄ BEARING ABUTMENT B
J1	——	——	——	762.57
J2	——	——	——	762.89
1	750.79	756.84	761.10	763.39
2	750.84	756.84	761.09	763.71
3	751.11	756.99	761.24	764.01
4	751.38	757.01	761.06	764.19
J3	——	——	——	764.46
J4	——	——	——	764.72

CERTIFIED CORRECT PLANS
Donald R. Hosler
Engineer
B. L. Schwar
Approved by
PENNA. PUB [illegible] UTILITY
Attest:
Secretary
MAR 5 1987

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					



CONTOUR PLAN
Scale: 1" = 30'



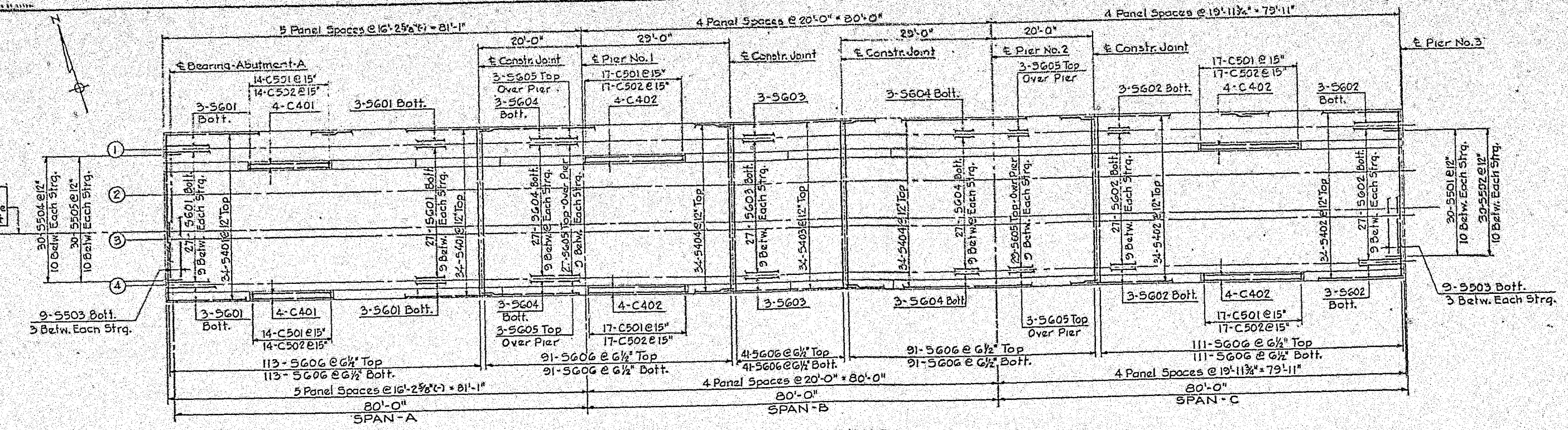
TYPICAL DECK SECTION
Scale: 1/4" = 1'-0"

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY
GLENFIELD VIADUCT
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
CAMBER & ELEV. SCHEDULE - UNIT IV

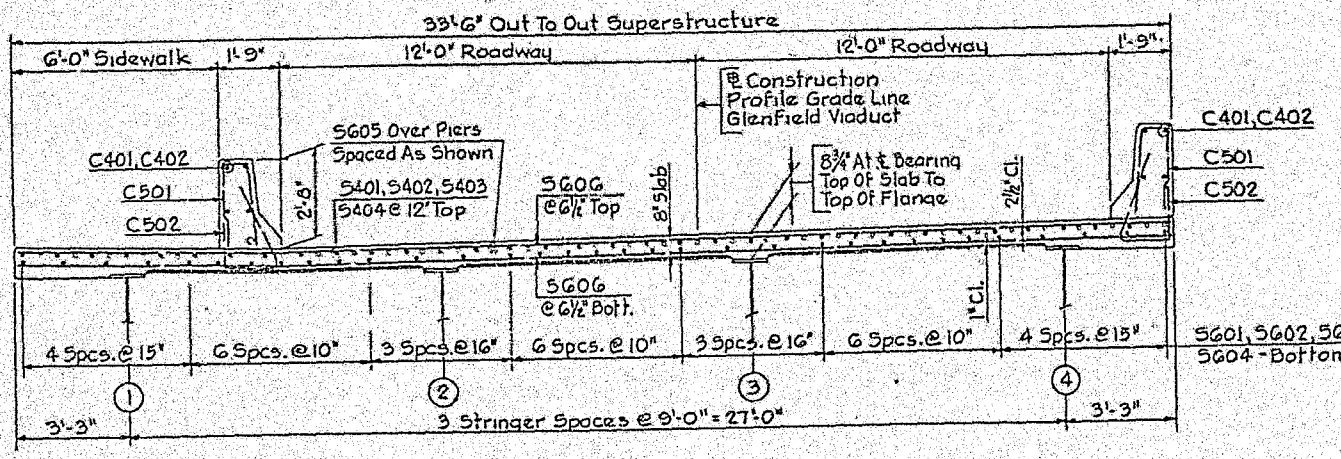
RECOMMENDED _____
BRIDGE ENGINEER

SHEET 22 OF 39
S-16201



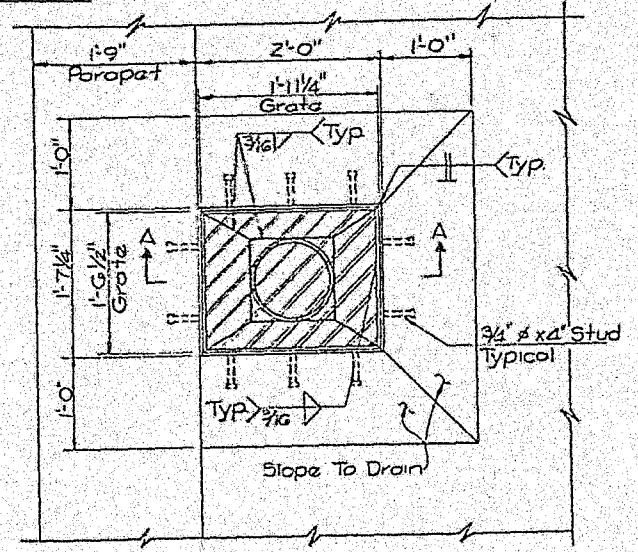
DECK PLAN - UNIT I

Scale: 1" = 10'

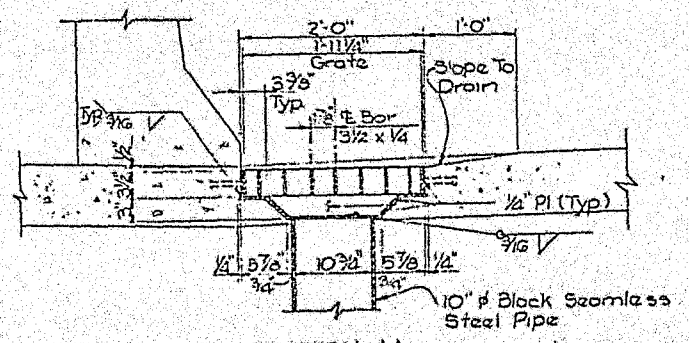


TYPICAL SECTION - UNIT I

Scale: 3/8" = 1'-0"



PLAN



SECTION-AA

SCUPPER DETAILS

Scale 1" = 1'-0"

NOTES:

1. Welded Frame With Removable Grate, Shall Be Galvanized After Fabrication In Accordance With ASTM A123
2. Deck Reinforcing Steel May Be Cut Or Repositioned To Clear Drain Assembly. Additional Reinforcing Steel Shall Be Placed Around Drain Assembly To Replace Cut Bars.

CERTIFIED CORRECT PLANS

Donald R. Kesler ENGINEER — B. P. Kehoe

NOTE

For Slab Pouring Sequence And Bar Schedule See Sheet 32

Approved by PENNA. PUBLIC UTILITY COMMISSION

Attest: Secretary — MAR 5 1987

Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				

Commonwealth of Pennsylvania

DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAY DESIGN

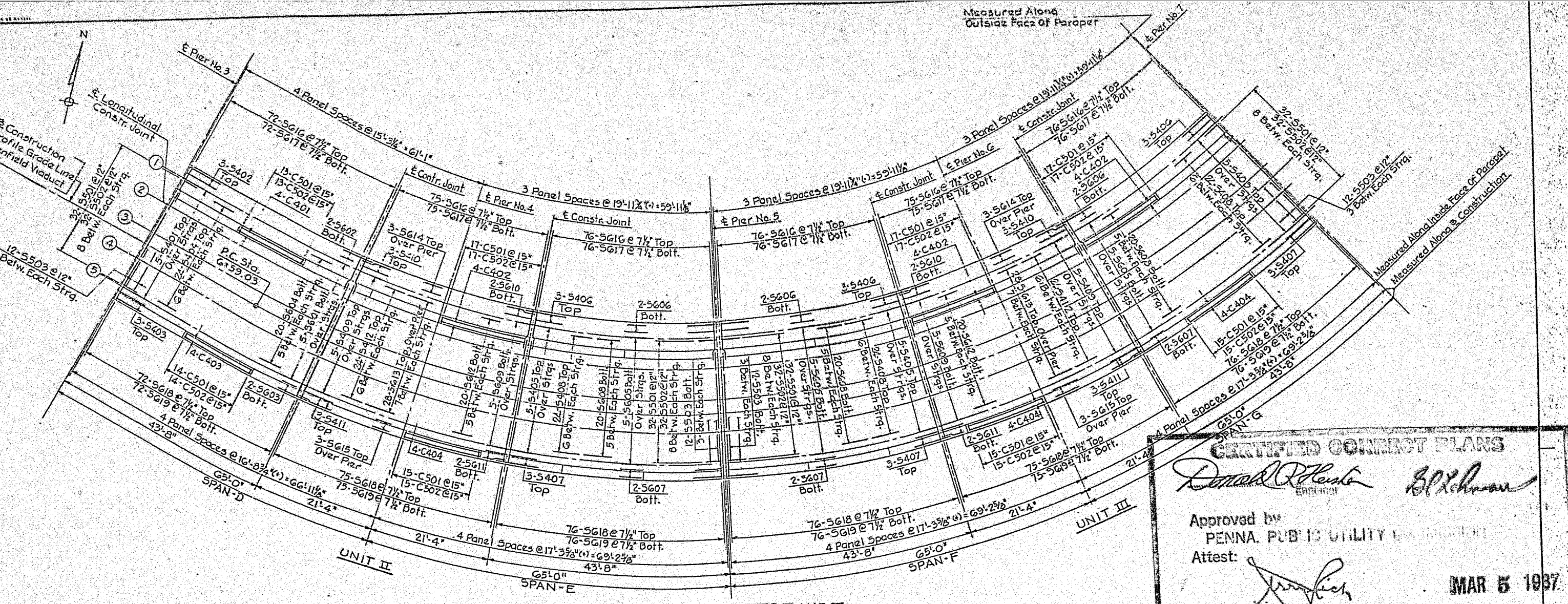
ALLEGHENY COUNTY
GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
DECK PLAN - UNIT I

RECOMMENDED _____
BRIDGE ENGINEER

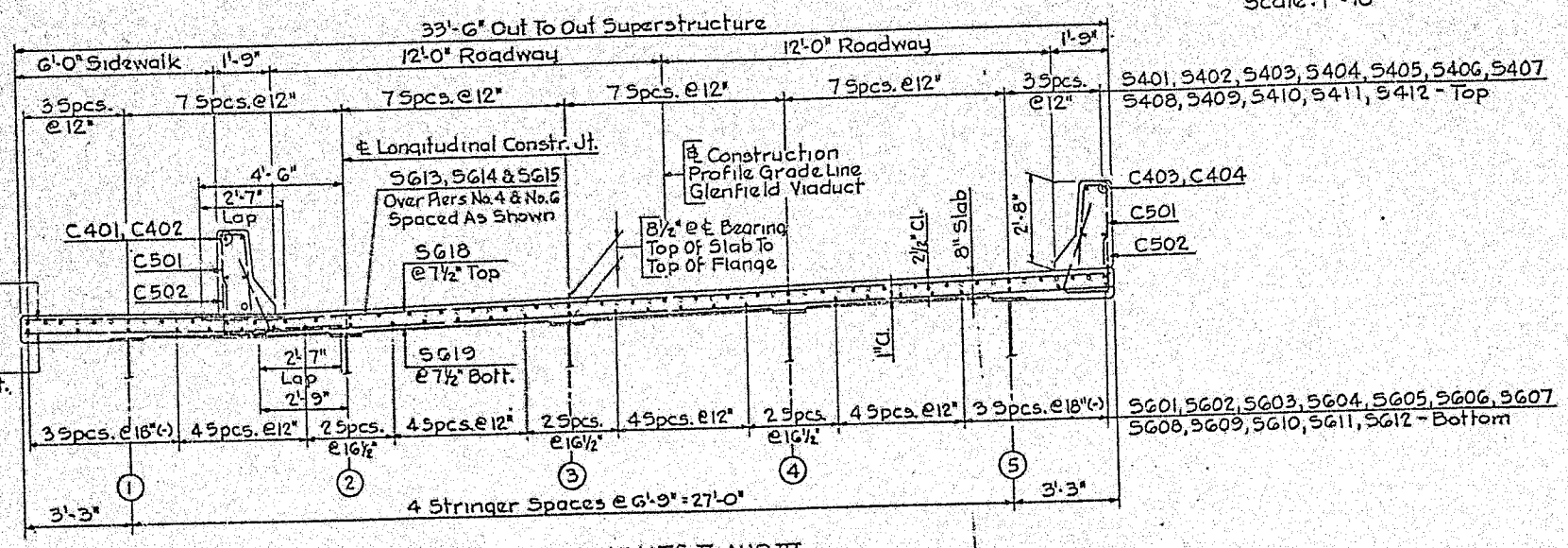
SHEET 22 OF 32

S-16201



DECK PLAN - UNITS II AND III

Scale: 1" = 10'



TYPICAL SECTION - UNITS II AND III

Scale: ⅜" = 1'-0"

CERTIFIED CORRECT PLANS

Donald R. Heisler ENGINEER

Approved by PENNA. PUBLIC UTILITY COMMISSION

Attest: Secretary

MAR 5 1987

NOTE

For Slab Pouring Sequence And Bar Schedule See Sheet 32

Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				

Commonwealth of Pennsylvania

DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9-88.80 OVER EAST BEAVER STREET STA. 16-96.67

10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE

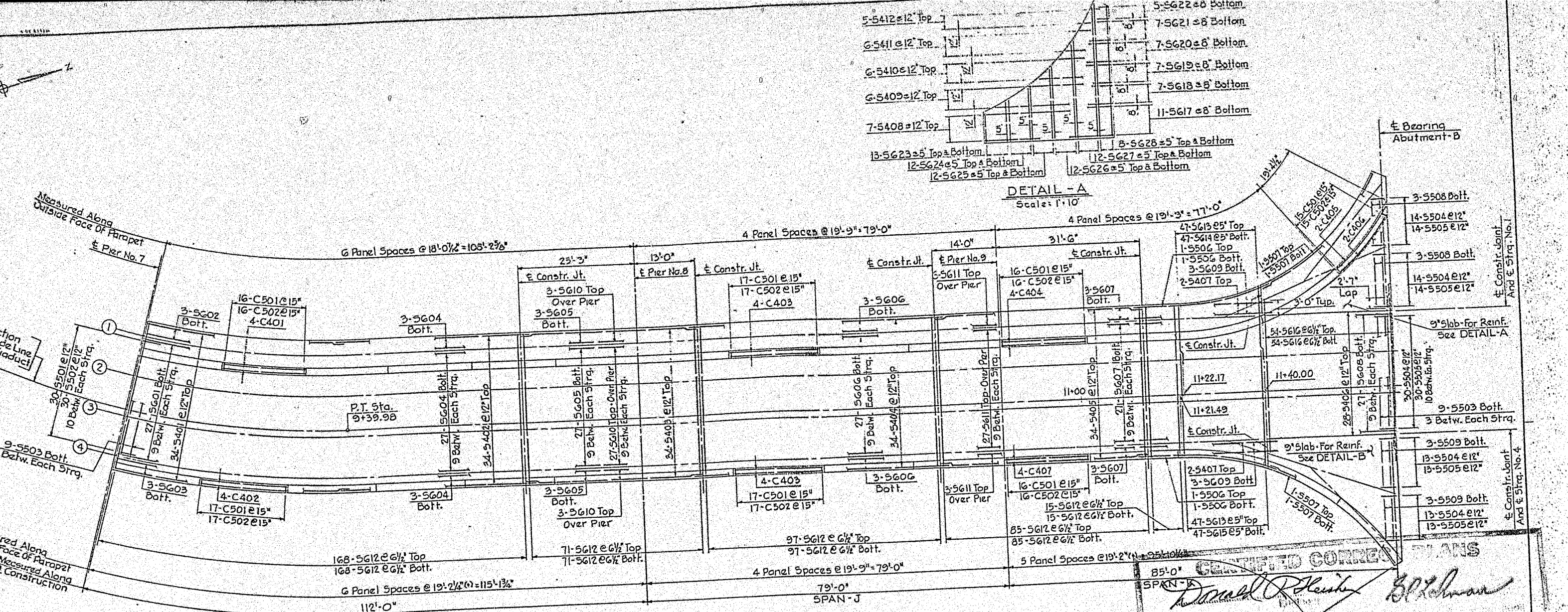
DECK PLAN - UNITS II & III

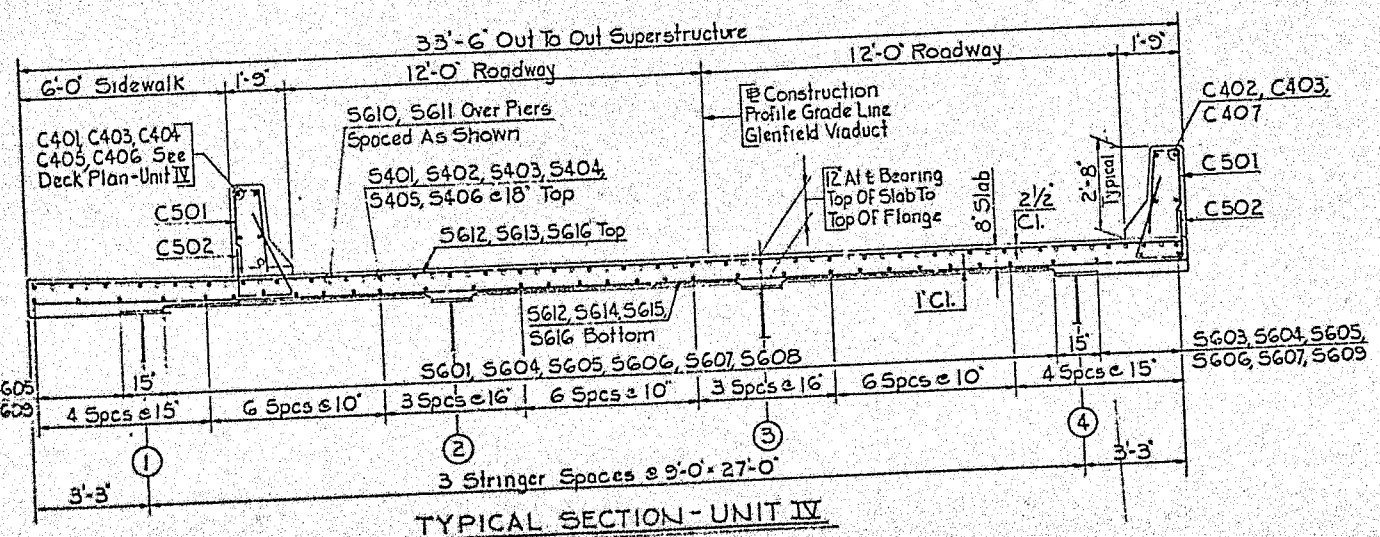
RECOMMENDED

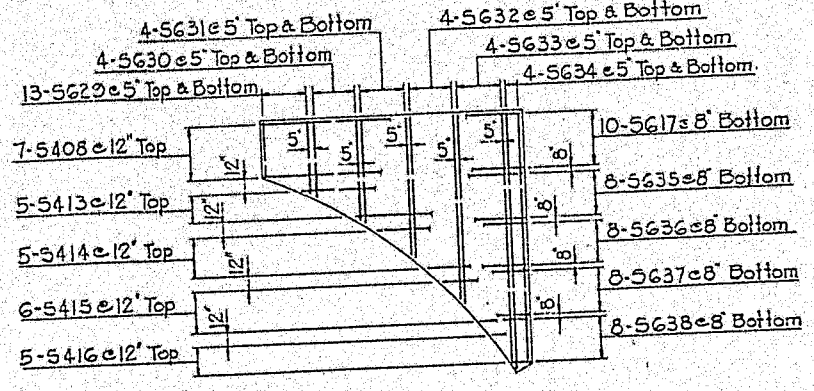
BRIDGE ENGINEER

SHEET 30 OF 32

S-16201







NOTE
Approximate Reinforcing Sequence And Bar Schedule See Sheet 32

CERTIFIED CORRECT AS BUILT PLANS
PENNA. PUBLIC UTILITY
Attest:
Secretary

Mark	Description	By	Ch	App'd	Date
	REVISIONS				

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
DECK PLAN - UNIT IV

RECOMMENDED
BRIDGE ENGINEER

SHEET 31 OF 32
S-16201

R SCHEDULE ~ UNIT I

	TYPE	NO	LENGTH	REMARKS
	STR.	28	31'-11"	
	STR	25	31'-4"	
	STR	32	25'-0"	
	STR	25	48'-8"	
1		30	2'-4"	
2		30	3'-4"	
	STR.	18	8'-6"	
1		30	2'-8"	
2		30	4'-0"	
	STR	66	32'-7"	
	STR	66	32'-0"	
	STR	33	26'-4"	
	STR	66	48'-8"	
	STR	66	44'-0"	
	STR	894	33'-2"	
	STR.	40	15'-10"	
	STR	64	19'-7"	
3		412	5'-5"	
4		412	6'-3"	

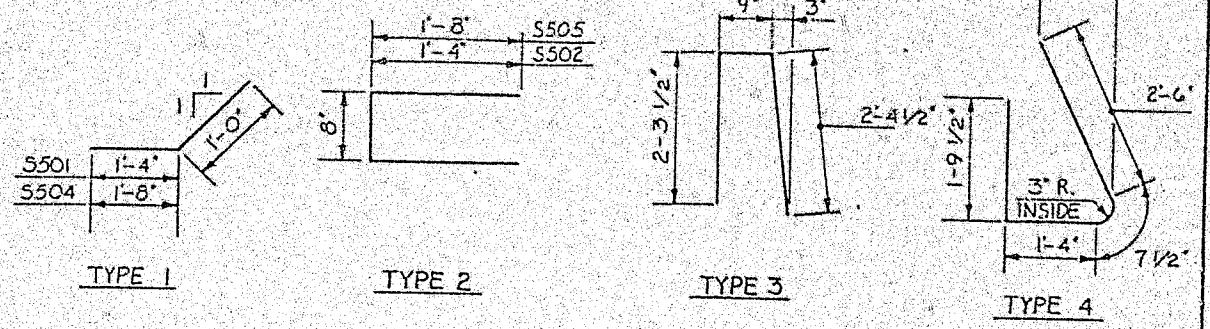
BAR SCHEDULE ~ UNITS II & III

MARK	SIZE	TYPE	NO	LENGTH	REMARKS
S401	#4	STR.	5	45'-0" TO 45'-4"	VARY EACH BY 1"
S402	#4	STR.	3	42'-8"	
S403	#4	STR.	3	45'-7"	
S404	#4	STR.	24	43'-0" TO 45'-4"	VARY EACH BY 1"
S405	#4	STR.	15	40'-11" TO 47'-4"	VARY 3 EA. BY 1'-7½"
S406	#4	STR.	3	40'-3"	
S407	#4	STR.	12	48'-1"	
S408	#4	STR.	14	40'-11" TO 47'-4"	VARY 3 EA. BY 5'-1"
S409	#4	STR.	10	38'-6" TO 44'-11"	VARY 2 EA. BY 1'-7½"
S410	#4	STR.	6	37'-10"	
S411	#4	STR.	6	45'-8"	
S412	#4	STR.	28	38'-6" TO 44'-11"	VARY 2 EA. BY 3½"
S501	#5	1	128	2'-4"	
S502	#5	2	128	3'-4"	
S503	#5	STR.	48	6'-3"	
S601	#6	STR.	5	43'-8" TO 46'-0"	VARY EACH BY 7"
S602	#6	STR.	2	43'-4"	
S603	#6	STR.	2	46'-3"	
S604	#6	STR.	20	43'-8" TO 46'-0"	VARY EACH BY 1½"
S605	#6	STR.	15	41'-7" TO 48'-0"	
S606	#6	STR.	6	40'-11"	
S607	#6	STR.	6	48'-9"	
S608	#6	STR.	60	41'-7" TO 48'-0"	VARY 3 EA. BY 4"
S609	#6	STR.	10	38'-6" TO 44'-11"	VARY 2 EA. BY 1'-7½"
S610	#6	STR.	4	37'-10"	
S611	#6	STR.	4	45'-8"	
S612	#6	STR.	40	38'-6" TO 44'-11"	VARY 2 EA. BY 4"
S613	#6	STR.	56	38'-6" TO 44'-11"	VARY 2 EA. BY 2⅞"
S614	#6	STR.	6	37'-10"	
S615	#6	STR.	6	45'-8"	
S616	#6	STR	374	7'-11"	
S617	#6	STR	374	9'-8"	
S618	#6	STR.	374	27'-10"	
S619	#6	STR.	374	26'-1"	
C401	#4	STR.	16	14'-10"	
C402	#4	STR.	36	19'-7"	
C403	#4	STR.	16	16'-4"	
C404	#4	STR.	48	16'-11"	
C501	#5	3	123	5'-5"	
C502	#5	4	123	6'-3"	

BAR SCHEDULE ~ UNIT IV

MARK	SIZE	TYPE	NO	LENGTH	REMARKS
S401	4	STR	32	42'-11" TO 51'-0"	VARY BY 3¼"
S402	4	STR	32	41'-1"	
S403	4	STR	32	37'-11"	
S404	4	STR	32	55'-0"	
S405	4	STR	24	45'-2"	
S406	4	STR	28	54'-1"	
S407	4	STR	4	29'-0"	
S408	4	STR	14	28'-3"	
S409	4	STR	8	18'-2" TO 25'-8"	VARY BY 1'-6"
S410	4	STR	6	11'-0" TO 16'-0"	VARY BY 1'-0"
S411	4	STR	6	6'-8" TO 9'-8"	VARY BY 7½"
S412	4	STR	5	3'-8" TO 5'-8"	VARY BY 6"
S413	4	STR	5	18'-10 TO 24'-8"	VARY BY 1'-5½"
S414	4	STR	5	10'-11 TO 16'-5"	VARY BY 1'-2½"
S415	4	STR	6	5'-6 TO 9'-6"	VARY BY 7½"
S416	4	STR	5	2'-4 TO 4'-4"	VARY BY 6"
S501	5	1	30	2'-4"	
S502	5	2	30	3'-4"	
S503	5	STR	18	8'-6"	
S504	5	1	84	2'-8"	
S505	5	2	84	4'-0"	
S506	5	STR	4	30'-10"	
S507	5	STR	4	35'-8"	
S508	5	STR	6	13'-0"	
S509	5	STR	6	12'-0"	
S601	6	STR	27	43'-11" TO 48'-10"	VARY BY 2¼"(+)
S602	6	STR	3	42'-11" TO 43'-7"	VARY BY 4"
S603	6	STR	3	51'-2" TO 51'-10"	VARY BY 4"
S604	6	STR	33	42'-5"	
S605	6	STR	33	37'-11"	
S606	6	STR	33	56'-4"	
S607	6	STR	33	45'-2"	
S608	6	STR	27	56'-7"	
S609	6	STR	6	30'-4"	
S610	6	STR	33	36'-10"	
S611	6	STR	33	30'-10"	
S612	6	STR	872	33'-2"	
S613	6	STR	94	17'-11" TO 21'-4"	VARY 2 EA. BY 15/16"
S614	6	STR	47	13'-5" TO 16'-11"	VARY BY 15/16" (-)
S615	6	STR	47	22'-5" TO 25'-8"	VARY BY 7/8" (-)
S616	6	STR	54	33'-0"	
S617	6	STR	21	28'-3"	
S618	6	STR	7	19'-0" TO 24'-6"	VARY BY 15"
S619	6	STR	7	13'-8" TO 18'-2"	VARY BY 9"
S620	6	STR	7	8'-10" TO 12'-4"	VARY BY 7"
S621	6	STR	7	5'-8" TO 8'-2"	VARY BY 5"
S622	6	STR	5	3'-8" TO 5'-0"	VARY BY 4"
S623	6	STR	26	6'-5" TO 8'-7"	VARY 2 EA. BY 2 3/16"
S624	6	STR	24	9'-9" TO 11'-4"	VARY 2 EA. BY 2 13/16"
S625	6	STR	24	11'-8" TO 15'-6"	VARY 2 EA. BY 4 3/16"
S626	6	STR	24	15'-8" TO 20'-10"	VARY 2 EA. BY 5 5/8"
S627	6	STR	24	21'-6" TO 28'-6"	VARY 2 EA. BY 7 5/8"
S628	6	STR	16	28'-8" TO 29'-10"	VARY 2 EA. BY 1 3/4"
S629	6	STR	26	7'-2" TO 8'-5"	VARY 2 EA. BY 1¼"
S630	6	STR	26	8'-8" TO 11'-5"	VARY 2 EA. BY 2¾"
S631	6	STR	26	11'-8" TO 15'-5"	VARY 2 EA. BY 3¾"
S632	6	STR	26	15'-8" TO 20'-8"	VARY 2 EA. BY 5"
S633	6	STR	26	21'-2" TO 27'-8"	VARY 2 EA. BY 6½"
S634	6	STR	8	27'-8" TO 28'-5"	VARY 2 EA. BY 3"
S635	6	STR	8	17'-8" TO 26'-8"	VARY 2 EA. BY 1'-3 1/16"
S636	6	STR	8	10'-11" TO 14'-8"	VARY 2 EA. BY 9 13/16"
S637	6	STR	8	5'-11" TO 10'-5"	VARY 2 EA. BY 7¾"
S638	6	STR	8	2'-2" TO 5'-6"	VARY 2 EA. BY 5 11/16"

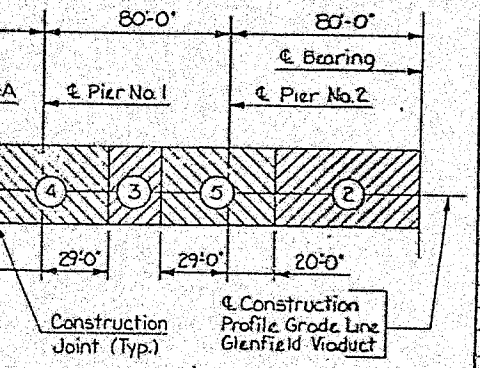
BAR TYPES



TYPE 1 TYPE 2 TYPE 3 TYPE 4

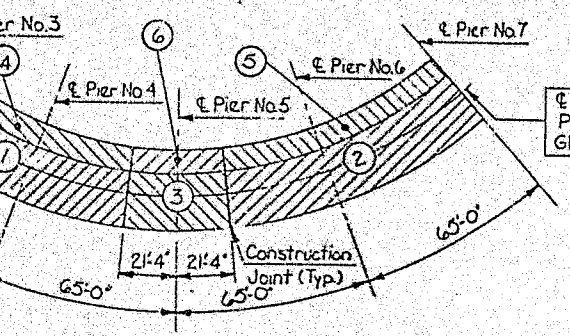
BAR SCHEDULE ~ UNIT IV (CONT.)

MARK	SIZE	TYPE	NO.	LENGTH	REMARKS
C401	4	STR.	24	17'-8"	
C402	4	STR.	24	18'-9"	
C403	4	STR	32	19'-4"	
C404	4	STR	16	18'-10"	
C405	4	STR	2	18'-7"	
C406	4	STR.	2	16'-10"	
C407	4	STR.	20	18'-3"	
C501	5	3	493	5'-5"	
C502	5	4	493	6'-3"	



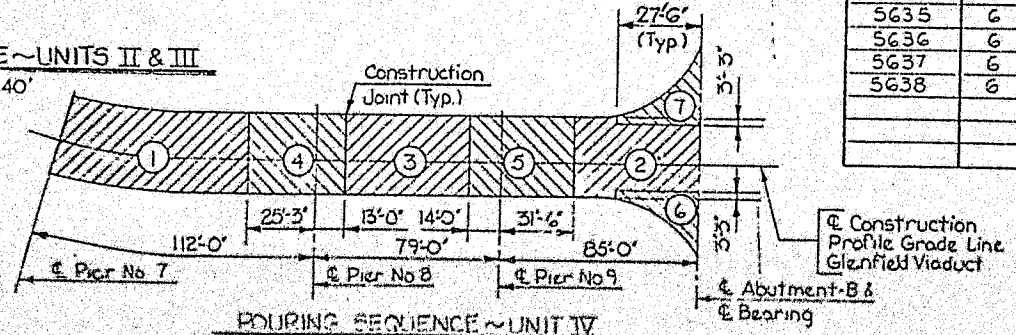
NG SEQUENCE ~ UNIT I

Scale: 1"=40'



POURING SEQUENCE ~ UNITS II & III

Scale: 1"=40'



POURING SEQUENCE ~ UNIT IV

Scale: 1"=40'

CERTIFIED CORRECT PLANS

Donald R. Hess
Engineer

B. K. Lehman

Approved by
PENNA. PUBLIC UTILITY
Attest:

Secretary

MAR 5 1987

NOTE

This Schedule Does Not Include Reinforcement For Light Pole Anchorages Or The Approach Slabs. For Reinforcement And Details Of These Items, See Supplemental Drawings BC-322A And BC-23

All Reinforcement Shall Be Epoxy Coated

Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

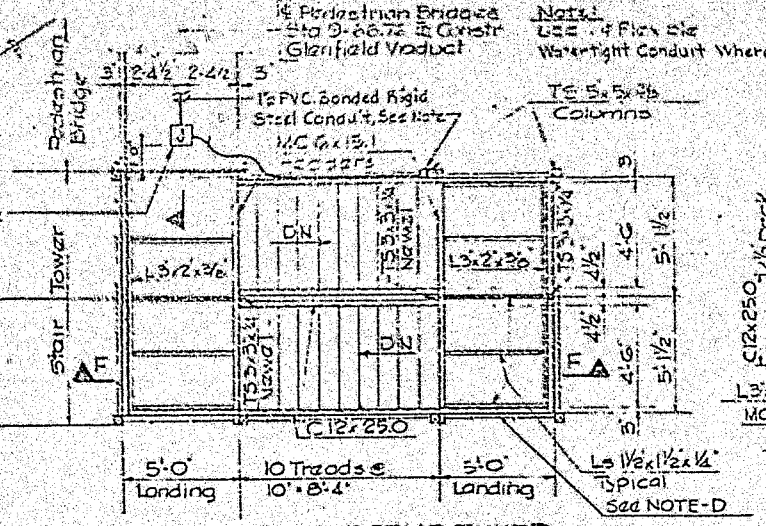
ALLEGHENY COUNTY
GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
DECK DETAILS & BAR SCHEDULES

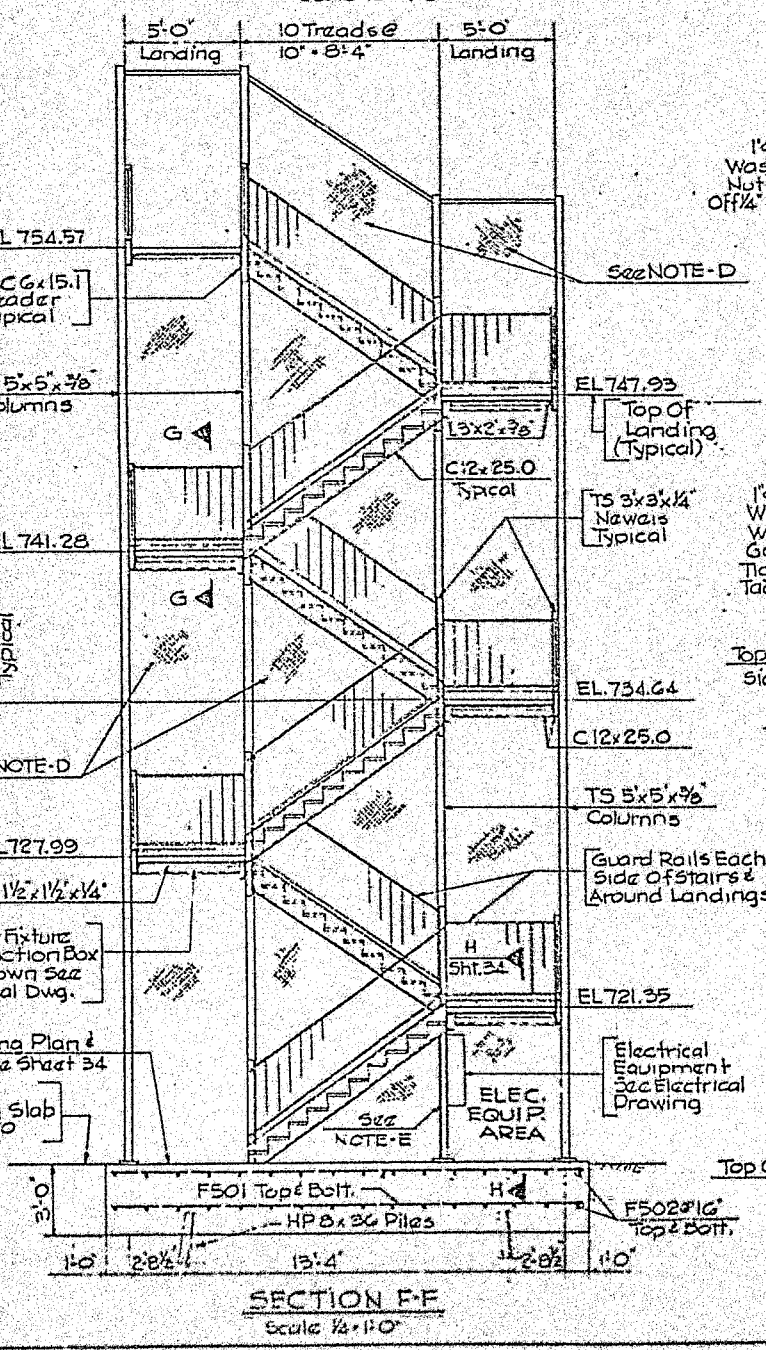
RECOMMENDED _____
BRIDGE ENGINEER

SHEET 32 OF 89

S-16201

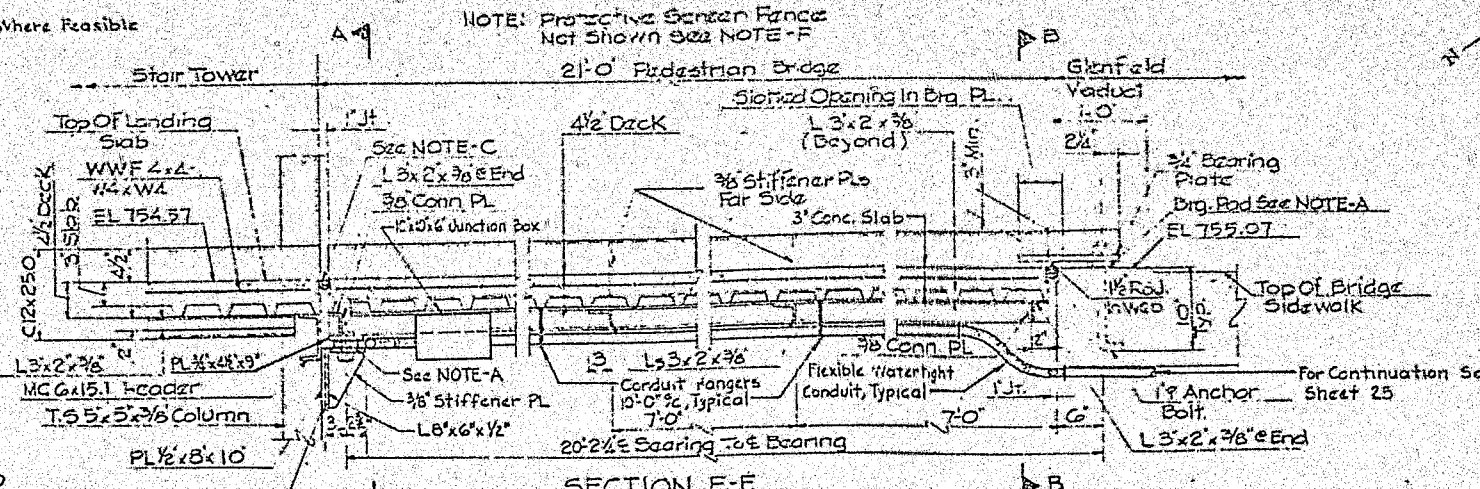


PLAN OF STAIR TOWER
Scale ½" = 1'-0"

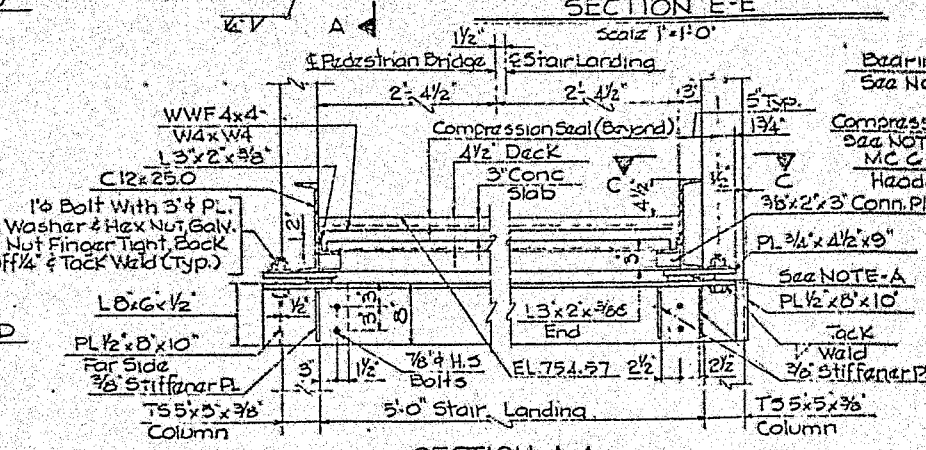


SECTION F-F
Scale ½" = 1'-0"

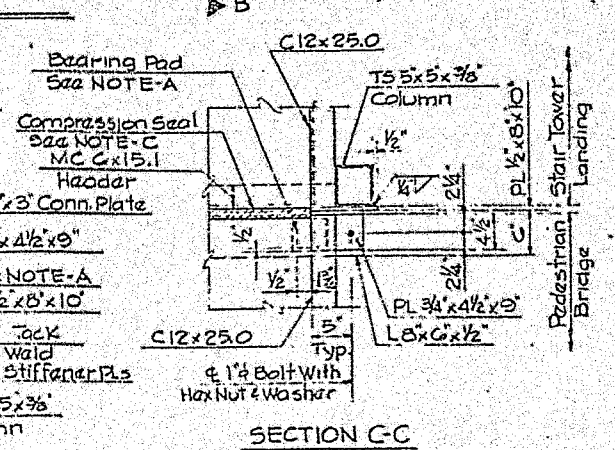
NOTE: Protective Screen Fence Not Shown See NOTE-F



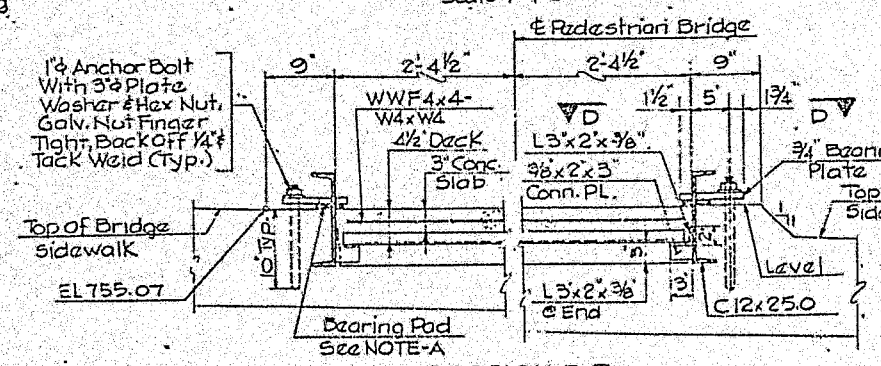
SECTION E-E
Scale 1" = 1'-0"



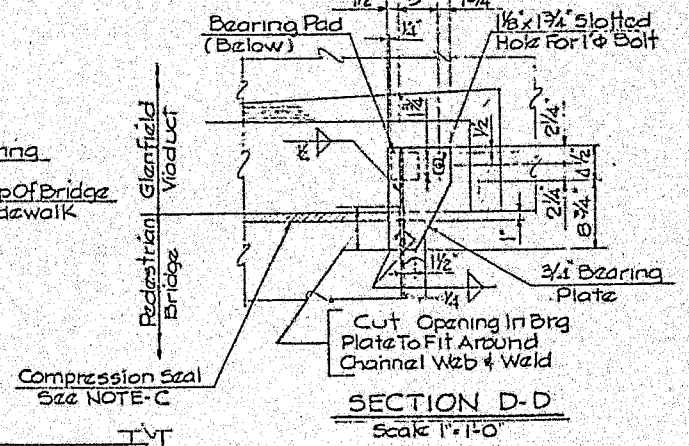
SECTION A-A
Scale 1" = 1'-0"



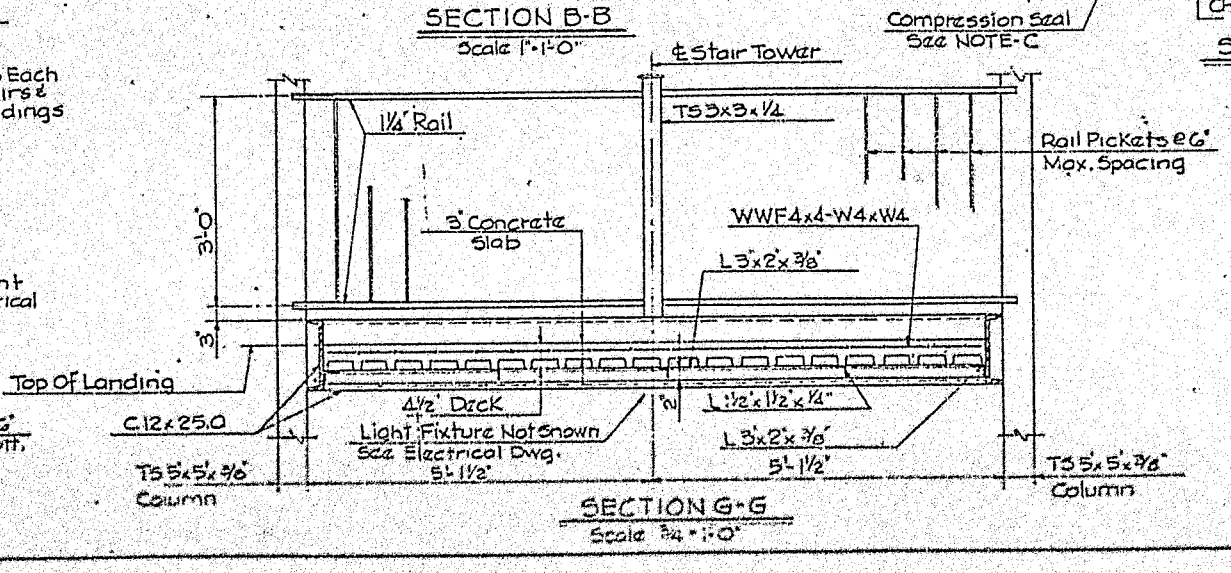
SECTION C-C
Scale 1" = 1'-0"



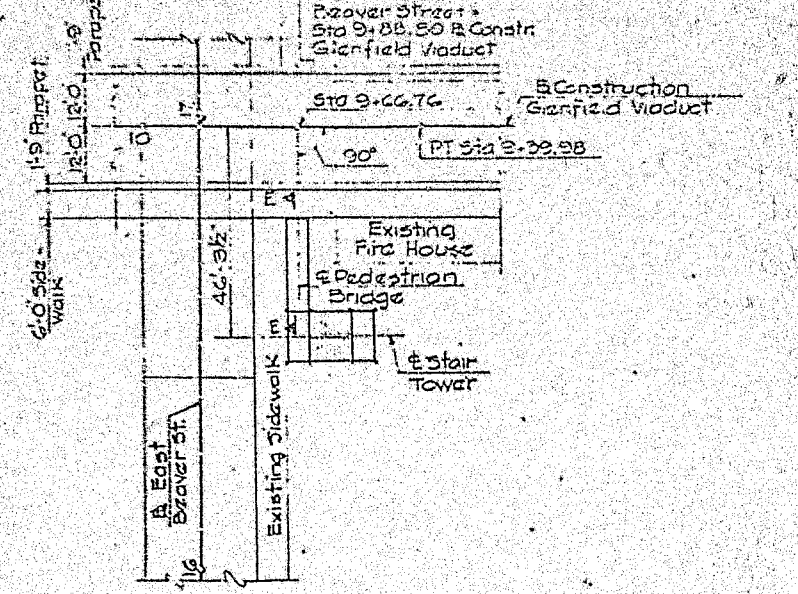
SECTION B-B
Scale 1" = 1'-0"



SECTION D-D
Scale 1" = 1'-0"



SECTION G-G
Scale ¾" = 1'-0"



LOCATION PLAN
Scale 1" = 20'

NOTES

NOTE-A Stair Tower Designed For A Uniform Live Load Of 100 PSF Or A 300 Lb. Concentrated Load, Whichever Governs.

NOTE-B Provide 3½"x3½" Bearing Pad Composed Of Three ¼" Layers Of 60 Durometer Neoprene, Separated By And Bonded To 16 Gage Steel Shims. Bond Pad To Lower Bearing Surface.

NOTE-C Install Bolts With Uniform Clearance In Holes At 68° F.

NOTE-D Provide Neoprene Compression Seals At Each End Of Pedestrian Bridge, Capable Of Accomodating A Total Movement Of One Half Inch.

NOTE-E Provide Protective Screen Around Stair Tower, Except At Exit And Entrance Ways.

NOTE-F Provide A Protective Screen Gate Or Door For Electrical Equipment Area.

NOTE-G Provide 8'-0" High Protective Fence For Pedestrian Bridge.

NOTE-H Provide Structural Steel Conforming To ASTM Designation A 36 Except Where Noted Otherwise In The Specifications.

NOTE-J Provide Class A Cement Concrete For All Concrete Work.

CERTIFIED CORRECT PLANS

Engineer

Approved by

Mark	Description	By	Chk'd.	App'd.	Date
	REVISIONS				

Attest:

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN

MAR 5 1987

ALLEGHENY COUNTY
GLENFIELD VIADUCT
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
MISCELLANEOUS DETAILS

RECOMMENDED

BRIDGE ENGINEER

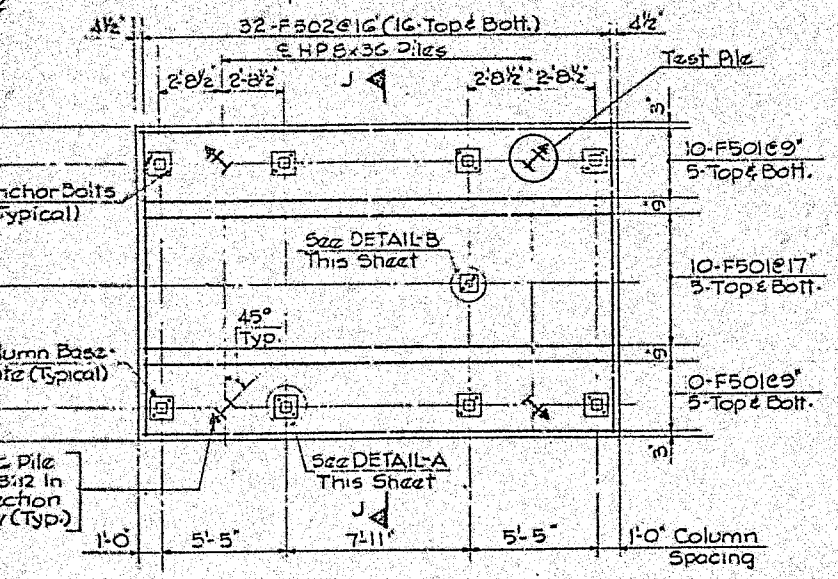
SHEET 33 OF 33

S-16201

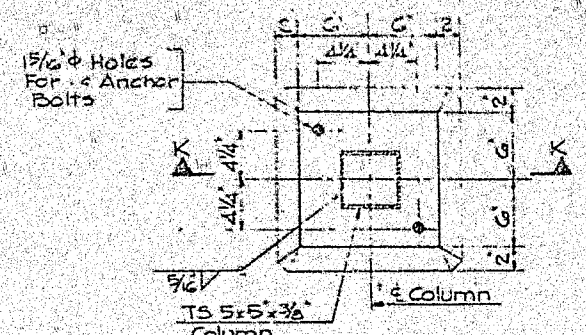
BAR SCHEDULE

SIZE	TYPE	NO.	LENGTH	REMARKS
#5	Str	30	29-3"	
#5	Str	32	13'-2	

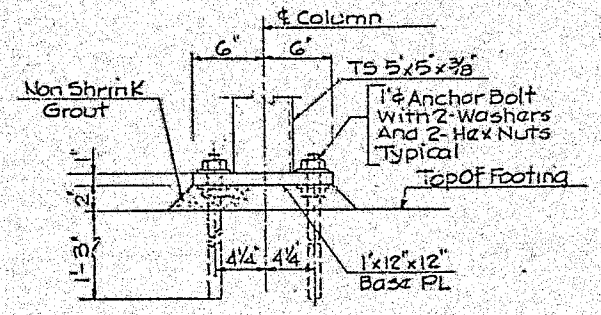
PILE NOTES:
1. Maximum Allowable Pile Load = 48 Tons
2. Maximum Design Pile Load = 35 Tons
3. Estimated Pile Tip Elevation 673.00



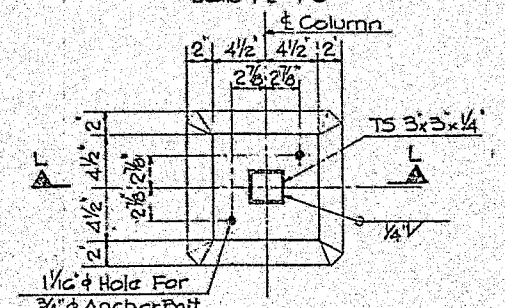
STAIR TOWER FOUNDATION PLAN
Scale 1/4" = 1'-0"



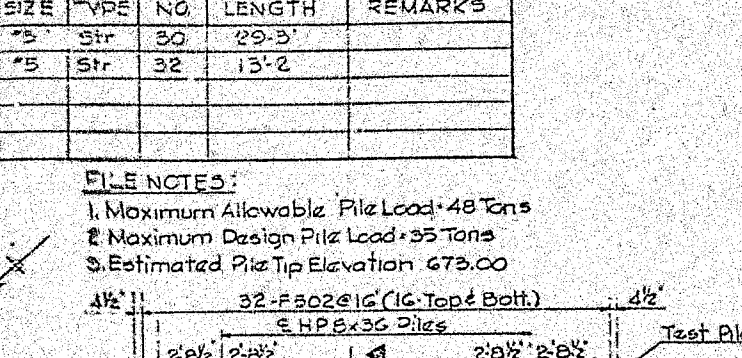
DETAIL - A
Scale 1½" = 1'-0"



SECTION K-K
Scale 1½" = 1'-0"

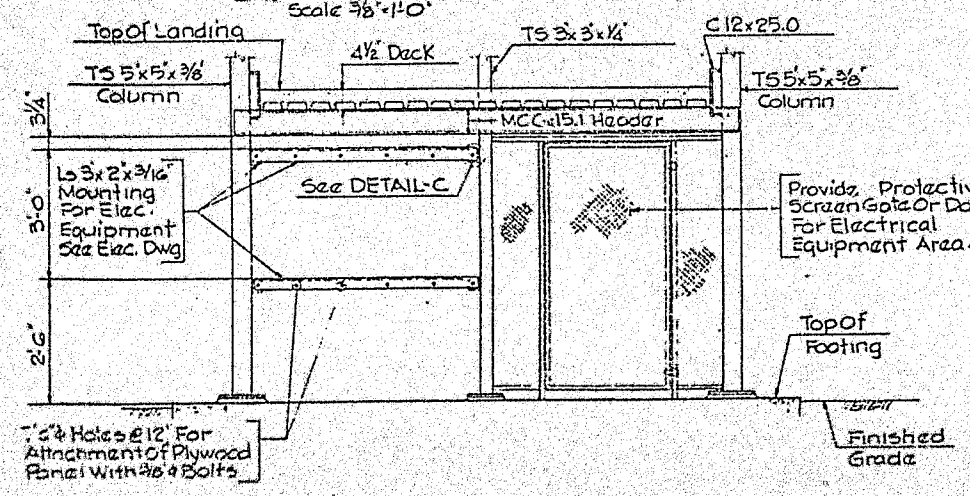


DETAIL - B
Scale 1½" = 1'-0"

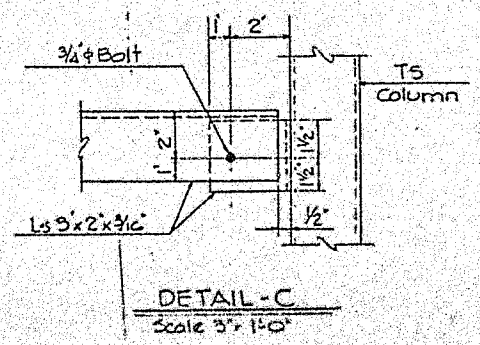


SECTION J-J
Scale 3/8" = 1'-0"

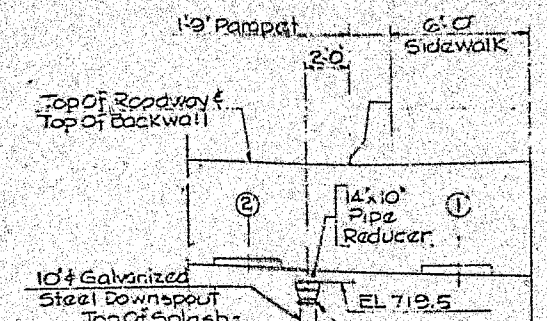
SECTION L-L
Scale 1½" = 1'-0"



SECTION H-H
Scale 1½" = 1'-0"

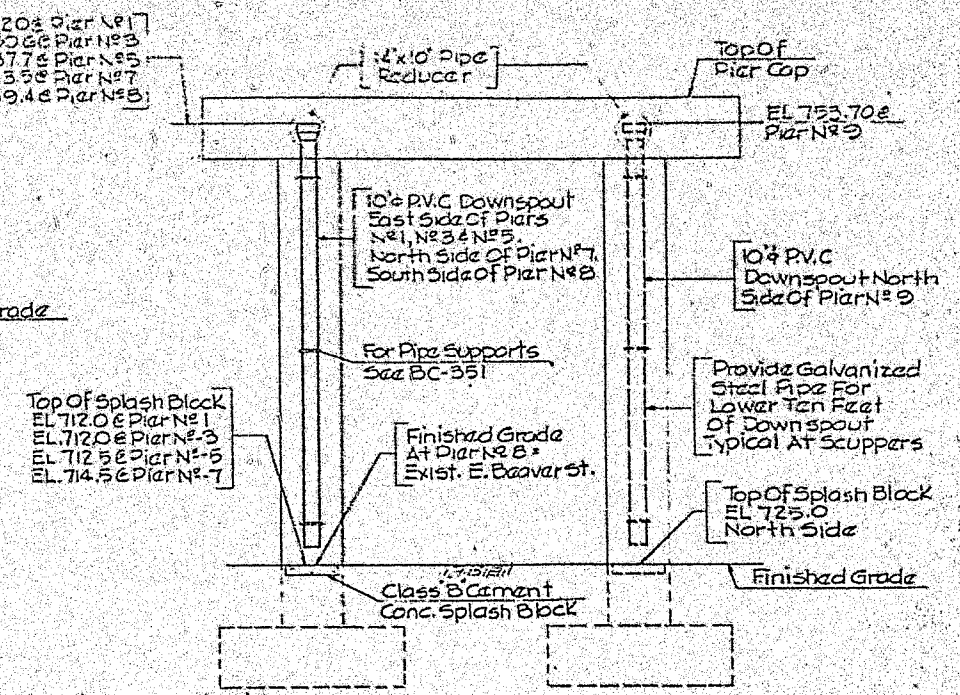


DETAIL - C
Scale 3" = 1'-0"



AT ABUTMENT - 'A'
LOOKING BACK STATION

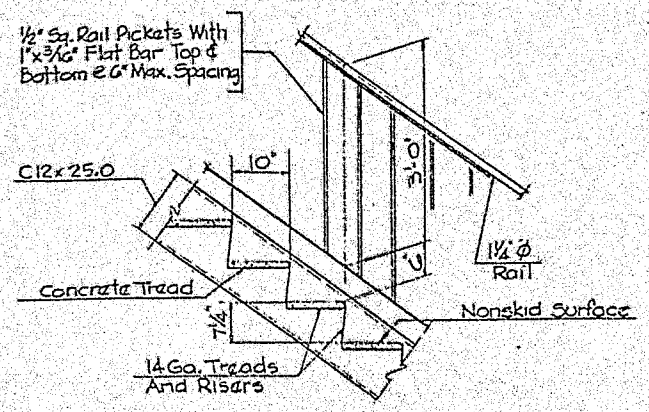
EL 722.0 ¢ Pier No 1
EL 730.6 ¢ Pier No 3
EL 737.7 ¢ Pier No 5
EL 743.5 ¢ Pier No 7
EL 749.4 ¢ Pier No 8



AT PIERS
LOOKING AHEAD STATIONS

NOTES:
For Scupper Locations See Sheet 1
For Scupper Details See Sheet 29

DRAINAGE DETAILS
Scale 1/4" = 1'-0"



STAIR DETAIL
Scale ¾" = 1'-0"

STAIR TOWER - QUANTITIES

ITEM	UNIT	QUANTITY
Class 3 Excavation	C.Y.	40
Select Borrow Excavation, Structure Backfill	C.Y.	7
Class A Cement Concrete	C.Y.	37
Reinforcement Bars	Lb.	1,355
Deformed Welded Wire Fabric	Lb.	320
Steel Beam Test Pile	L.F.	39
Steel Beam Bearing Pile	L.F.	117
Steel Beam Pile Tip Reinforcement	Eq.	4
Fabricated Structural Steel	Lb.	19,500
Protective Fence	S.F.	3,106
Handrail	L.F.	215

SUMMARY OF ELECTRICAL QUANTITIES

ITEM	UNIT	TOTAL
Steel Light Pole w/ 8' Bracket Arm (35' Mtg. Ht.)	Ea.	2
100 Watt H.P.S. Luminaire, Arm Mnt.	Ea.	2
AWG ⑥ Elect. Cable, Copper, 1 Conductor	L.F.	672
AWG 12 Elect. Cable, Copper, 1 Conductor	L.F.	480
¾" Exposed Conduit	L.F.	60
1" Exposed Conduit	L.F.	89
¾" Watertight Flex. Galv. Steel Conduit	L.F.	100
Complete Power Supply System	L.S.	L.S.
Test Entire Light System & Connections	L.S.	L.S.
Junction Box	Ea.	8
70 Watt H.P.S. Luminaire, Overhead Mnt.	Ea.	5

CERTIFIED CORRECT PLANS
Donald R. Reuske
Engineer
Approved by
Attest:

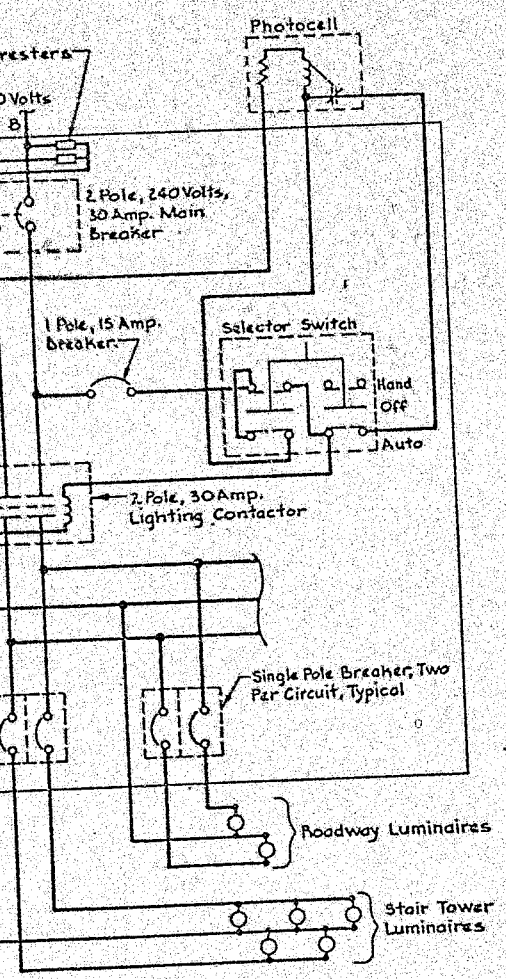
Mark	Description	By.	Chk'd.	App'd.	Date
	REVISIONS				

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN
MAR 5 1987

ALLEGHENY COUNTY
GLENFIELD VIADUCT
GLENFIELD VIADUCT STA. 9+88.80 OVER
EAST BEAVER STREET STA. 16+96.67
10 SPAN STEEL I-BEAM AND MULTI-GIRDER BRIDGE
DRAINAGE & MISCELLANEOUS DETAILS

APPROVED
BRIDGE ENGINEER

SHEET 31 OF 39
S-16201

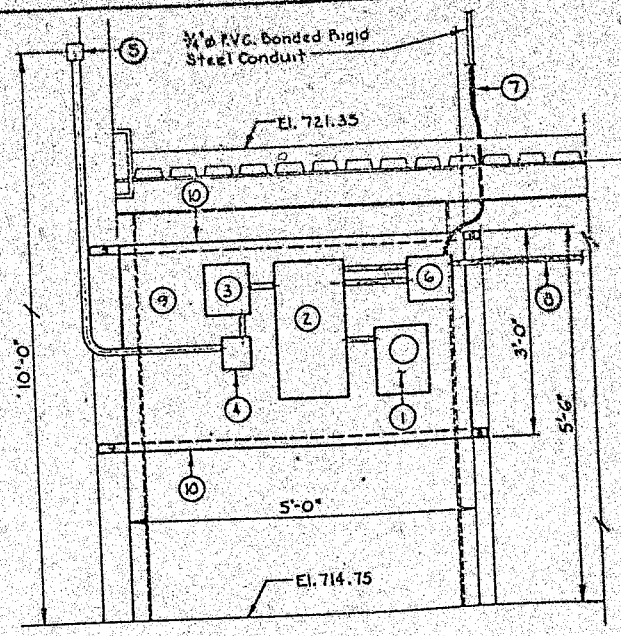


NGLE LINE DIAGRAM

No Scale

CIRCUIT NUMBER	BREAKER TRIP RATING - AMPS	POLE NUMBER
Main	30	1,2
1	20	1
2	20	1
3	20	1
4	20	1
5	15	1

NOTE:
All Circuit Breakers Shall Be Rated For 10,000 A.I.C.



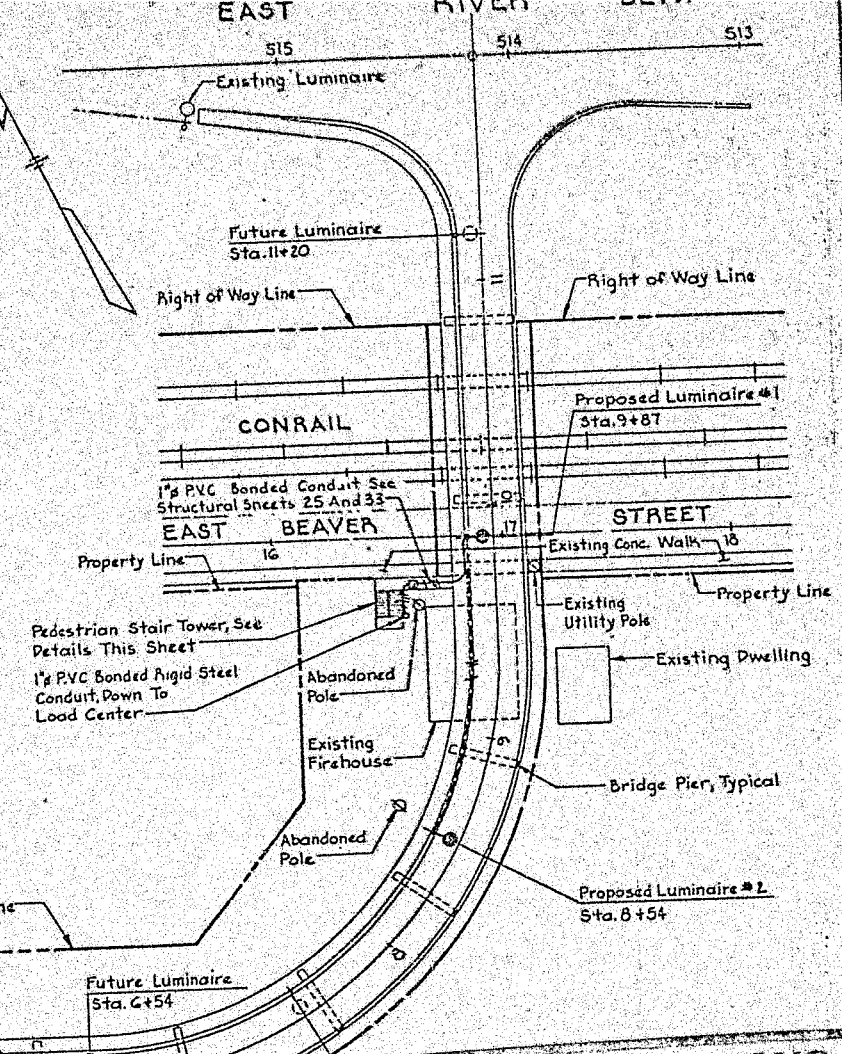
SECTION B-B

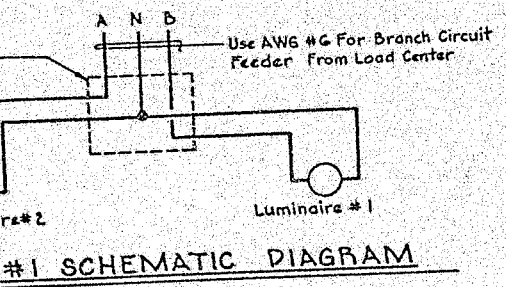
1. Utility Company KWH Meter.
2. 8 Circuit Load Center With Main Breaker.
3. 30 Amp., 2 Pole, Lighting Contactor.
4. Hand-Off-Automatic Selector Switch In A 8"x8"x6" Enclosure.
5. Photocell, Face In A Northerly Direction.
6. 8"x8"x6" Junction Box.
7. ¾"ø Flexible Watertight Conduit, Feeding Stair Tower Luminaires.
8. 1"ø P.V.C Bonded Rigid Steel Conduit Up To Roadway Luminaires.
9. 5'-0"x3'-0"x ¾" Exterior Grade Plywood, Painted.
10. ∠ 5"x2"x 3/16 See Structural Drawings For Details

NOTE:
All Electrical Equipment Enclosures Shall Be NEMA 3R.

ELECTRICAL EQUIPMENT LAYOUT

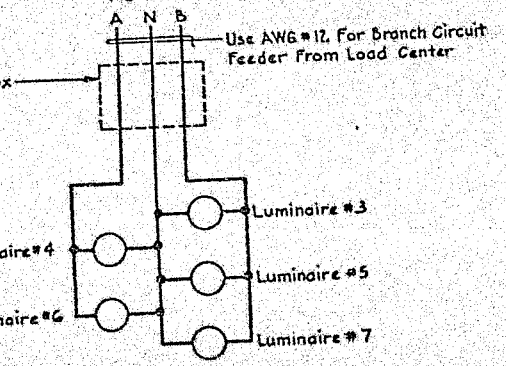
Scale: ¾" = 1'-0"





#1 SCHEMATIC DIAGRAM

No Scale



#2 SCHEMATIC DIAGRAM

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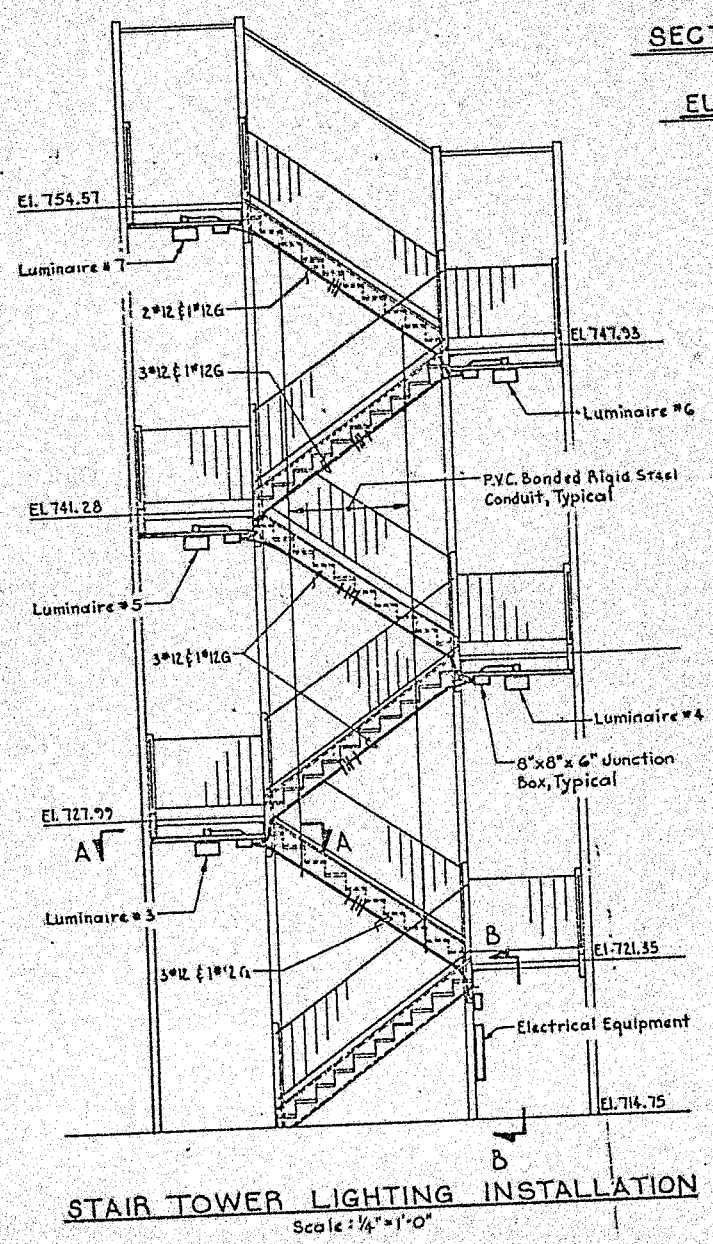
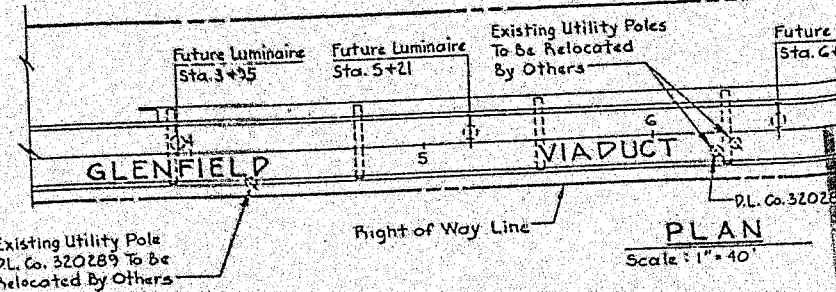


STAIR TOWER LIGHTING INSTALLATION

Scale: ¼" = 1'-0"

Note:
All Conduit Shall Be Minimum ¾" Unless Otherwise Noted

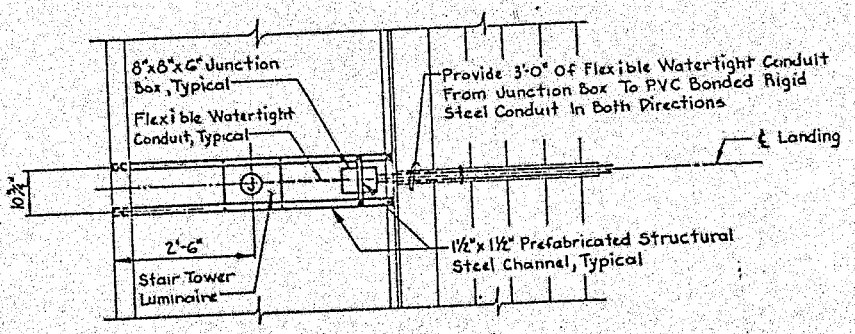


PLAN

Scale: 1" = 40'

ELECTRICAL LEGEND

- Existing Luminaire
- Proposed Luminaire
- Future Luminaire
- Existing Utility Pole
- Junction Box



SECTION A-A

No Scale

GENERAL CORRECT PLANS

Approved by
PENNA. PUBLIC UTILITY

Attest:

MAR 5 1987

Mark	Description	By	Chk'd.	App'd.	Date

REVISIONS

Commonwealth of Pennsylvania

DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAY DESIGN

ALLEGHENY COUNTY GLENFIELD VIADUCT

GLENFIELD VIADUCT STA. 9+88.80 OVER EAST BEAVER STREET STA. 16+96.67

ELECTRICAL PLAN AND DETAILS

RECOMMENDED

BRIDGE ENGINEER

SHEET 35 OF 39

S-16201

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
Harrisburg, PA 17120

Office of Chief Counsel
March 18, 1987

ORIGINAL

IN REPLY REFER TO

RECEIVED
MAR 25 1987
SECRETARY'S OFFICE
Public Utility Commission

Jerry Rich, Secretary
Pennsylvania Public Utility Commission
P. O. Box 3265
Harrisburg, Pennsylvania 17120

Re: Complaint Docket C-80092154

Dear Mr. Rich:

Enclosed please find original and two (2) copies of the Petition Of The Pennsylvania Department Of Transportation For Modification Of Order.

I hereby certify that a copy of the Department's Petition has been sent to all parties of record.

Very truly yours,

Stephen F. J. Martin
Assistant Counsel

DOCUMENT FOLDER

220/SFJM/mvh
787-6485

Enclosures

cc: W. J. Clements, P. E., (Attn: Robert M. Peda)
District 11-0
Parties of Record (Page 2)

PARTIES OF RECORD

Albert C. Feczko, Jr., Esquire
Professional Office Building
430 Boulevard of the Allies
Pittsburgh, Pennsylvania 15219
(Glenfield Borough)

Allan J. Opsitnick, Esquire
(County of Allegheny)
300 Fort Pitt Commons Building
445 Fort Pitt Boulevard
Pittsburgh, Pennsylvania 15219

Daniel F. Donovan, General Attorney
Consolidated Rail Corporation
1138 Six Penn Center Plaza
Philadelphia, Pennsylvania 19103

Richard S. Herskovitz
Assistant Counsel
Pennsylvania Public Utility Commission
Law Bureau
P. O. Box 3265
Harrisburg, Pennsylvania 17120

William L. Leonard
Vice President and General Counsel
The Bell Telephone Company of Pennsylvania
One Parkway
Philadelphia, Pennsylvania 19102

William Jacoby, Esquire
Columbia Gas of Pennsylvania, Inc.
P. O. Box 117
Columbus, Ohio 43216

Larry R. Crayne, Esquire
Duquesne Light Company
1 Oxford Center
301 Grant Street
Pittsburgh, Pennsylvania 15279

DOCKETED
MAR 25 1987

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Glenfield Borough	:	
	:	
v.	:	
	:	Complaint Docket
Consolidated Rail Corporation, Allegheny County and Pennsylvania Department of Transportation	:	C-80092154

RECEIVED
MAR 25 1987
SECRETARY'S OFFICE
Public Utility Commission

PETITION OF THE PENNSYLVANIA DEPARTMENT
OF TRANSPORTATION FOR MODIFICATION OF ORDER

TO THE HONORABLE, THE PENNSYLVANIA PUBLIC UTILITY COMMISSION:

COMES NOW, the Pennsylvania Department of Transportation by its attorney, Stephen F. J. Martin, Assistant Counsel, and, in Petition for Modification of the Order adopted April 24, 1986, entered May 8, 1986, respectfully represents:

1. That by Order adopted April 24, 1986, entered May 8, 1986, at the above-captioned docket, your Honorable Commission adopted as its action the Recommended Decision of Administrative Law Judge Michael A. Nemec, dated February 11, 1986, as amended.

DOCUMENT
FOLDER

2. That by the aforesaid Order, your Honorable Commission, at Paragraph 6, directed:

> That Consolidated Rail Corporation at its initial cost and expense, furnish all material and do all work necessary to temporarily lower its aerial lines in the area of the crossing and protect it during construction and then return it to an aerial position upon completion of the improvement. That Consolidated Rail Corporation at its option may relocate its aerial lines to a permanent location underground.

3. That by the aforesaid Order, your Honorable Commission, at Paragraph 16, directed:

> That upon completion of the improvement ordered herein, Pennsylvania Department of Transportation, when and as certified by this Commission, pay to Consolidated Rail Corporation a sum or sums of money equal to 100% of the actual cost incurred in furnishing material and performing work to temporarily lower, protect and reestablish the communication and signal aerial lines in accordance with paragraph 6 of this order; or if Consolidated Rail Corporation chose to permanently locate its aerial lines underground, then pay to Consolidated Rail Corporation a sum or sums of money equal to 20% of the actual cost incurred in furnishing material and performing work to relocate the communication and signal lines permanently underground in accordance with paragraph 6 of this order.

4. That the aforesaid Order also provides, at Paragraph 17:

That Consolidated Rail Corporation, if it chose to locate its aerial lines permanently underground, bear the remaining eighty (80%) percent of the actual cost incurred in furnishing material and performing work in accordance with paragraph 6 of this order.

5. That Conrail Exhibit #5 presented at the hearing held November 27, 1985 in the above captioned matter estimated the cost of permanent relocation of communications and signal lines underground to be $24,000.00.

6. That a current estimate for temporary relocation of the aerial communications and signal lines and restoration to their aerial position indicates a cost of approximately $35,795.00.

7. That, under the terms of the aforesaid Order, Conrail will receive full reimbursement of the greater amount if it chooses to relocate its lines only temporarily and will incur costs of $19,200.00 if it chooses permanent relocation.

8. That Conrail has reasonably chosen temporary relocation of its communications and signal lines in order to incur no unreimbursed cost.

9. That reimbursement of Conrail for the lower cost of permanent relocation of its communications and signal lines

underground would result in a lower project cost for this improvement.

10. That the Department of Transportation is willing to reimburse Conrail for the lower cost of permanent relocation of its communications and signal lines in order to lower the project cost from that estimated if Conrail effects only temporary relocation under paragraph 6 of the Order.

11. That the public interest is best served if the lower cost permanent relocation of Conrail's communication and signal lines is chosen.

WHEREFORE, the Department of Transportation prays your Honorable Commission modify paragraph 6 of the aforesaid Order to read:

> 6. That Consolidated Rail Corporation, at its initial cost and expense, furnish all material and do all work necessary to relocate its aerial communications and signal lines to a permanent location underground.

It is also prayed your Honorable Commission delete paragraph 17 of the aforesaid Order and modify paragraph 16 to read:

> 16. That upon completion of the improvement ordered herein, Pennsylvania Department of Transportation, when and as certified by this Commission, pay to Consolidated Rail

Corporation a sum or sums of money equal to 100% of the actual cost incurred in furnishing material and performing work to relocate its communication and signal lines permanently underground in accordance with paragraph 6 of this order.

Respectfully submitted,

Stephen F. J. Martin
Assistant Counsel
Office of Chief Counsel
Department of Transporrtation
Commonwealth of Pennsylvania
Harrisburg, Pennsylvania 17120
(717) 787-6485

COMMONWEALTH OF PENNSYLVANIA :

SS

COUNTY OF DAUPHIN :

Before me, the undersigned, personally appeared, Robert M. Peda, P. E., Grade Crossing Engineer, who, being duly sworn according to law, deposes and says that he is authorized and does make this affidavit on behalf of the Commonwealth of Pennsylvania, Department of Transportation, and the averments contained and set forth in the foregoing Petition of the Pennsylvania Department of Transportation for Modification of Order are true and correct to the best of his knowledge, information and belief.

Robert M. Peda

Robert M. Peda, P.E.
Grade Crossing Engineer
R/W and Utilities Division

Sworn to and subscribed before me
this 20 day of March ,
1987.

Susanne Marie Miller
Notary Public

My Commission Expires: 2/17/90

CONRAIL

ORIGINAL

RECEIVED

APR 6 1987

SECRETARY'S OFFICE
Public Utility Commission

April 1, 1987

Jerry Rich, Secretary
Pennsylvania Public Utility Commission
P.O. Box 3265
Harrisburg, PA 17120

RE: Glenfield Borough v. Consolidated Rail Corporation et al. - Complaint Docket C-80092154
Law Department File MPCB 90

Dear Mr. Rich:

I have received a copy of the Petition of PennDOT seeking a modification of the order entered on May 8, 1986 in this proceeding. This letter will serve to advise you that Conrail has no objection to the entry of an order as requested by PennDOT. It does not appear that a public hearing will be necessary to consider PennDOT's request.

Very truly yours,

Daniel F. Donovan

DOCKETED

APR 7 - 1987

Daniel F. Donovan
Senior General Attorney

1138 Six Penn Center Plaza
Philadelphia, PA 19103
(215) 977-5016

DFD/cmt

DOCUMENT FOLDER

cc: Stephen F.J. Martin, Esquire
Assistant Counsel
Pennsylvania Department of Transportation
521 Transportation & Safety Building
Harrisburg, PA 17120

Albert C. Feczko, Jr., Esquire
Professional Office Building
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Pittsburgh, PA 15219

Allan J. Opsitnick, Esquire
(County of Allegheny)
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Pittsburgh, PA 15219

Richard S. Herskovitz, Esquire
Assistant Counsel
Pennsylvania Public Utility Commission
Law Bureau
P.O. Box 3265
Harrisburg, PA 17120

William L. Leonard
Vice President and General Counsel
The Bell Telephone Company of Pennsylvania
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Philadelphia, PA 19102

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Columbia Gas of Pennsylvania, Inc.
P.O. Box 117
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Duquesne Light Company
1 Oxford Center
301 Grant Street
Pittsburgh, PA 15279