

COUNTY OF



ALLEGHENY

RICH FITZGERALD
COUNTY EXECUTIVE

March 25, 2016

Rosemary Chiavetta, Secretary
Penna. Public Utility Commission
P.O. Box 326
Harrisburg, Pa 17105-3265

RECEIVED

APR 01 2016

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

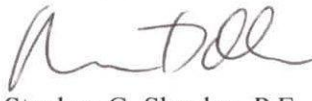
RE: Docket No. A-00122618
Pine Creek Bridge No. 11 Replacement
Project # P111-0211; ECMS #27787

Dear Secretary Chiavetta:

In accordance with paragraph 4 of the Commission's order entered on at the above docket, we are transmitting herewith one (1) half-size copy and one (1) electronic copy of the complete detailed construction and bridge drawings for the replacement of Pine Creek Bridge No. 11. A half-size set of these drawings will be provided to Russell Peterson, of Allegheny Valley Railroad Company for his pickup. Electronic copies of these drawings are also being sent to the parties of record on the attached list.

Also in accordance with paragraph 15 of this order, we wish to advise that actual construction of this project will begin on July 8th, 2016. If you have any questions or concerns, please contact Mike Burdelsky, Allegheny County Project Manager (412.350.5914).

Sincerely,

For 
Stephen G. Shanley, P.E.
Director

ORIGINAL

RJD MB
SGS/MJD/RLC/MB/mb
Attachments

cc: Mike Dillon, P.E./Deputy Director of Public Works
Rich Connors, P.E./ Manager of Bridge Ops and Tech Services
Construction
Mike Burdelsky, Project Manager

BRDG-16-0312



STEPHEN G. SHANLEY, P.E., DIRECTOR
DEPARTMENT OF PUBLIC WORKS
501 COUNTY OFFICE BUILDING • 542 FORBES AVENUE
PITTSBURGH, PA 15219
PHONE (412) 350-4005 • WWW.ALLEGHENYCOUNTY.US

175659

CERTIFICATE OF SERVICE

Michael Dillon For
I, Stephen G. Shanley, P.E., of Allegheny County Department of Public Works, hereby certify that I have this day, March 25, 2016, served a true copy of the foregoing document upon the participants, listed below, in accordance with the requirements of 1.54 (relating to service by participant).

Right-of-Way and Utilities Division
Bureau of Design, PennDOT
Commonwealth Keystone Building
7th Floor, P.O. Box 3362
Harrisburgh, PA 17105-3362
Mr. Gary Fawver, P.E. Chief

Pennsylvania Department of
Transportation, District 11-0,
45 Thoms Run Road,
Bridgeville, PA 15017
Malek A. Francis

CSX Transportation, Inc.
500 Water Street, Suite: J-301
Jacksonville, FL 32202
Mr. Carl A. Roe, Jr., Principal Engineer

Allegheny Valley Railroad Company
25 South Broadway
Scottdale, PA 15683
Mr. Russell A. Peterson, President

Peoples Natural Gas Company LLC
1201 Pitt Street
Pittsburgh, PA 15221
James Giardina

Verizon Pennsylvania LLC
15 East Montgomery Avenue, 2nd Floor
Pittsburgh, PA 15212
Ms. Debbie Delia

Duquesne Light Company
2601 Preble Avenue
Pittsburgh, PA 15233
Mr. Robbie Frantz

Shaler Township/ Girty's Run Joint
Sewer Authority
300 Wetzel Road
Glenshaw, PA 15116
Randal Collins

Comcast
300 Corliss Street
Pittsburgh, PA 15220
Mr. Rick Moslen

Verizon Business
630 Clark Avenue
King of Prussia, PA 19406
John Alessandrine

Hampton Shaler Water Authority
PO Box 66
3101 McCully Road
Allison Park, PA 15101
Sam Scarfone

Shaler Township
300 Wetzel Road
Glenshaw, PA 15116
Matt Sebastian, P.E., Township Engineer

RECEIVED

APR 01 2016

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Deborah Lewis, Notary Public
City of Pittsburgh, Allegheny County
My Commission Expires June 20, 2016
PENNSYLVANIA COMMISSION OF NOTARIES

Dated this 25th day of MARCH, 2016.

(Signature)

Commonwealth of Pennsylvania

County of Allegheny

PLAN PREPARATION
 DESIGNER BUCHART HORN, INC.

DISTRICT	COUNTY	TOWNSHIP	BOROUGH	ROUTE	SECTION	TOTAL SHEETS
11-0	ALLEGHENY	SHALER				12

ECMS: 27787

COUNTY OF ALLEGHENY PITTSBURGH PENNSYLVANIA DEPARTMENT OF PUBLIC WORKS

DESIGN DRAWINGS
 FOR
 CONSTRUCTION
 OF

EAST PENNVIEW STREET

IN ALLEGHENY COUNTY

FROM STA. 27+50.00 TO STA. 31+50.00 LENGTH 216.00 FT. 0.041 MI.

PUC APPLICATION DOCKET NUMBER A-00122618

ALSO INCLUDED

TRAFFIC CONTROL PLAN	1 SHEETS
EROSION & SEDIMENT POLLUTION CONTROL PLAN	4 SHEETS
STRUCTURE PLAN	46 SHEETS
CROSS SECTIONS	7 SHEETS

RECEIVED

APR 01 2016

PA PUBLIC UTILITY COMMISSION
 SECRETARY'S BUREAU



DESIGN DESIGNATION

HIGHWAY CLASSIFICATION - URBAN LOCAL ROAD
 ROADWAY TYPOLOGY - LOCAL
 DESIGN SPEED - 25 MPH
 PAVEMENT WIDTH - 22'-0"
 SHOULDER WIDTH - 6'-0"

TRAFFIC DATA

CURRENT ADT - 4,234 (2016)
 DESIGN YEAR ADT - 5,166 (2036)
 DHV - 465
 D - 50%
 T - 5%

APPROVED
 COMMONWEALTH OF PENNSYLVANIA

RECOMMENDED MARCH 22, 2016 DATE
DeLobbo

DISTRICT EXECUTIVE

APPROVED
 ALLEGHENY COUNTY
 DEPARTMENT OF PUBLIC WORKS

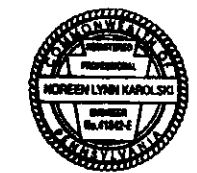
Michael Brudley 3/22/16
PROJECT MANAGER DATE

Richard J. Connor 3/22/16
CHIEF BRIDGE ENGINEER DATE

[Signature] 3/22/16
DEPUTY DIRECTOR-ENGINEERING DATE

[Signature] 3/22/16
DIRECTOR DATE


Prepared By:
 BUCHART-HORN, INC.
 2200 LIBERTY AVE, SUITE 300
 PITTSBURGH, PA 15222



APPROVED
 BY THE COUNTY MANAGER
 OF ALLEGHENY COUNTY

1/15/2016 5084-16
 DATED THAT AUTHORIZED THE ADVERTISEMENT
 OF THIS PROJECT FOR CONSTRUCTION

[Signature]
 PROJECT MANAGER
 DATE: 3/17/2016



County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWINGS

FOR
 REPLACEMENT
 OF
PINE CREEK BRIDGE NO. II
 EAST PENNVIEW STREET
 TOWNSHIP OF SHALER
 PIII-02II

DES. MLK	DRN. BEH	CHK. JAS	26048
DATE 2/16	SCALE AS NOTED	SHEET 1 OF 1	

3/16/2016

J:\PROJ\76051-00\CADD\roadway\CONSTR\VP file CRT file.dgn

RECORD OF EXISTING ROAD TYPES

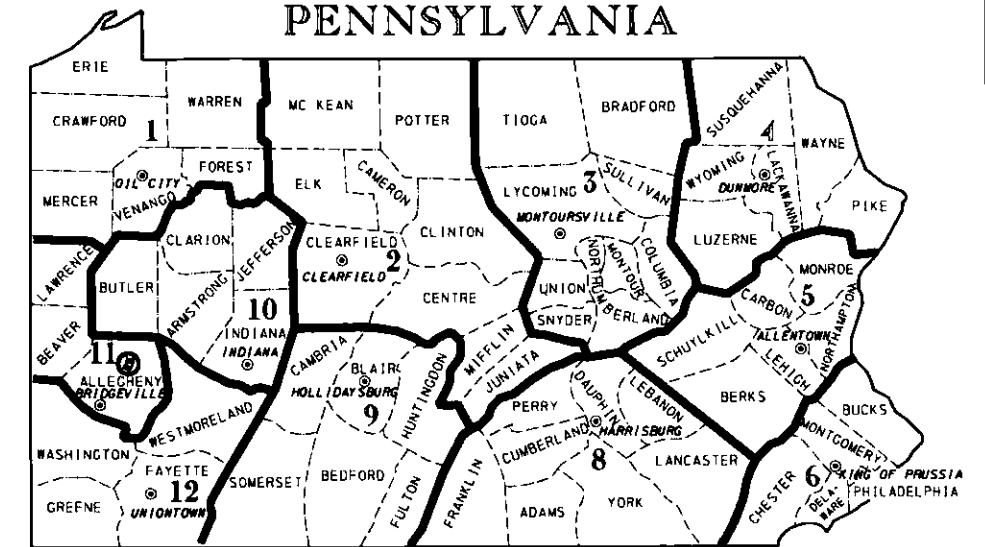
LIMIT OF WORK ADJ TO STA 27+50.00	20' OF 6" ASPHALT ON 20' OF 6" SUBBASE
STA 27+50.00 TO STA 29+50.00	20' OF 6" ASPHALT ON 20' OF 6" SUBBASE
STA 29+50.00 TO STA 30+15.00	14' ASPHALT ON THRU GIRDER BRIDGE
STA 30+15.00 TO STA 31+50.00	22' OF 6" ASPHALT ON 22' OF 6" SUBBASE
LIMIT OF WORK ADJ TO STA 31+50.00	22' OF 6" ASPHALT ON 22' OF 6" SUBBASE

NOTE:
THE DEPTHS OF MATERIAL SHOWN ARE FOR DESIGN PURPOSES ONLY. ANY RISK OF UNANTICIPATED COSTS ASSOCIATED WITH DIFFERENCES BETWEEN THE LISTED DEPTHS AND THE ACTUAL DEPTHS SHALL BE ACCEPTED BY THE CONTRACTOR.

TABULATION OF SEGMENT/STATION EQUALITIES

NONE

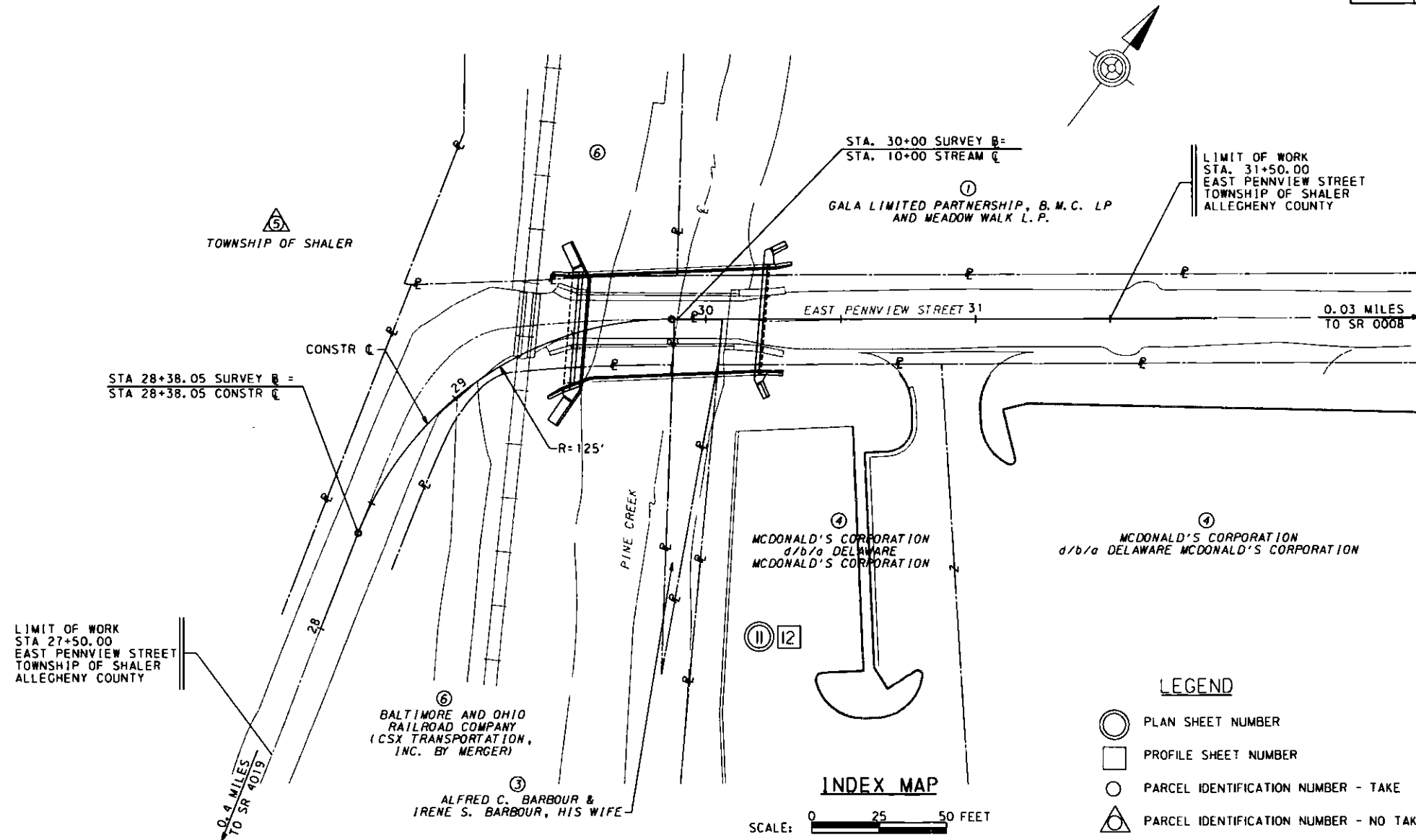
PENNSYLVANIA



12 DISTRICT
 ⓪ DISTRICT OFFICE
 ⑫ PROJECT LOCATION

INDEX OF DRAWINGS

DESCRIPTION	SHEET
TITLE SHEET	1
INDEX MAP	2
LOCATION MAP/GENERAL NOTES	3
TYPICAL SECTIONS	4
SUMMARY SHEETS	5-6
TABULATION SHEETS	7-10
PLAN SHEET	11
PROFILE SHEET	12
SUPPLEMENTAL PLANS	
TRAFFIC CONTROL PLAN	1
EROSION & SEDIMENT POLLUTION CONTROL PLAN	4
STRUCTURE PLAN	46
CROSS SECTIONS	7



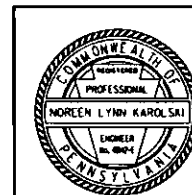
11 12

LEGEND

- ⊙ PLAN SHEET NUMBER
- PROFILE SHEET NUMBER
- PARCEL IDENTIFICATION NUMBER - TAKE
- △ PARCEL IDENTIFICATION NUMBER - NO TAKE

SCALE: 0 25 50 FEET

INDEX MAP



County of Allegheny
 Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
 INDEX MAP
 PINE CREEK BRIDGE NO. II
 P111-0211

DES. N.L.K.	DRW. J.R.A.	CHK. J.A.S.	26048
DATE 9/15	SCALE AS NOTED	SHEET 2 OF 12	

3/24/2016

J:\PROJECTS\16051-00\CADD\road\w\CONSTR\Plan CK Index Map.dgn

TABULATION OF OVERALL LENGTH

STA 27+50.00 TO STA 31+50.00 = 400.00 FT = 0.076MI

TABULATION OF CONSTRUCTION LENGTH

STA 28+38.00 TO STA 30+54.00 = 216.00 FT = 0.041 MI

LIST OF EQUALITIES

NONE

SUMMARY OF PROJECT COORDINATES

BASED ON THE PENNSYLVANIA STATE COORDINATE SYSTEM

RTE.	STATION	POINT	COORDINATES		BEARING
			NORTH	EAST	
EAST PENNVIEW STREET	28+00.00	POT	437286.6385	1356115.8824	N15°49'05"W
	28+38.10	PC	437323.2989	1356105.4961	N15°49'05"W
	29+23.11	PI	437405.0867	1356082.3248	N52°37'04"E
	29+87.41	PT	437456.6969	1356149.8714	N52°37'04"E
	31+89.56	POT	437579.4320	1356310.5050	

NOTE:

FOUR (4) PLACE COORDINATES ARE USED FOR COMPUTATIONAL PURPOSES ONLY AND DO NOT IMPLY A PRECISION BEYOND TWO (2) PLACES.

PUBLIC UTILITIES

- S — PENNSYLVANIA ONE CALL SYSTEM
1-800-242-1766
SERIAL NO 1825784
- S — SHALER TOWNSHIP/
GIRTY'S RUN JOINT SEWER AUTHORITY
300 WETZEL ROAD
GLENSHAW, PA 15116
ATTN: MATTHEW SEBASTIAN, PE
TOWNSHIP ENGINEER
412-486-9700
- E — DUQUESNE LIGHT COMPANY
2825 NEW BEAVER AVENUE, BUILDING 6
PITTSBURGH, PA 15233-1003
ATTN: JIM RUNANTZ
412-393-7813
- G — PEOPLES NATURAL GAS CO
1201 PITT STREET
PITTSBURGH, PA 15221
ATTN: ROCKY SAPORITO
412-258-4490
- T — VERIZON PENNSYLVANIA, INC.
RIGHT OF WAY DEPARTMENT
15 EAST MONTGOMERY AVENUE, 2ND FLOOR
PITTSBURGH, PA 15212
ATTN: DEBBIE DELIA
412-237-2285
- FOU — MCI/VERIZON BUSINESS SOLUTION
630 CLARK AVENUE
KING OF PRUSSIA, PA 19406
ATTN: JOHN ALESSANDRINE
610-337-6707
- CTV — COMCAST CABLE COMMUNICATIONS, INC
300 CORLISS STREET
PITTSBURGH, PA 15220
ATTN: RICK MOSLEN
412-999-0590
- W — HAMPTON SHALER WATER AUTHORITY
PO BOX 66
3101 McCULLY ROAD
ALLISON PARK, PA 15101
ATTN: TIM GETZ
412-589-1010
- ALLEGHENY VALLEY RAILROAD
CARLOAD EXPRESS, INCORPORATED
SOUTHWEST PENNSYLVANIA
CAMP CHASE RAILROAD
519 CEDAR WAY, BUILDING 1, SUITE 100
OAKMONT, PA 15139
ATTN: MATT ANDERSON
412-426-4000

GENERAL NOTES

THE LEGAL RIGHT-OF-WAY ON EAST PENNVIEW STREET FROM STATION 27+50.00 TO STATION 31+50.00 IS VARIABLE IN WIDTH BASED ON THE CONDEMNATION PLAN FOR THE CONSTRUCTION OF PINE CREEK BRIDGE NO. 11, RECORDED IN THE DEPARTMENT OF REAL ESTATE IN ALLEGHENY COUNTY, PA IN HIGHWAY BOOK 152, PAGE 38 ON MARCH 30, 2010.

CONSTRUCT PROJECT IN ACCORDANCE WITH PUBLICATION 408 SPECIFICATIONS, DATED 2011 WITH CURRENT CHANGE.

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

DESIGN OF THIS PROJECT WAS DONE UNDER ALLEGHENY COUNTY CONTRACT NO. 31335, DESIGN GROUP C-2003 (AA00-0302), CONTRACT DATE APRIL 19, 2004.

THREE WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT THE PA ONE CALL SYSTEM, INC., PHONE 1-800-242-1776, SERIAL NO. _____ FOR SHALER TOWNSHIP.

TEMPORARY CONSTRUCTION EASEMENT. AN EASEMENT TO USE THE LAND AS NECESSARY DURING CONSTRUCTION OF THE PROJECT. THE EASEMENT IS REQUIRED ONLY UNTIL THE CONSTRUCTION OR WORK INDICATED BY THE PLAN IS COMPLETED, UNLESS SOONER RELINQUISHED IN WRITING BY THE DEPARTMENT.

VERTICAL DATUM ON THESE PLANS IS BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD 1988) BY BENCH LEVEL.

HORIZONTAL CONTROL FOR THIS PROJECT IS BASED ON THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM (NAD83).

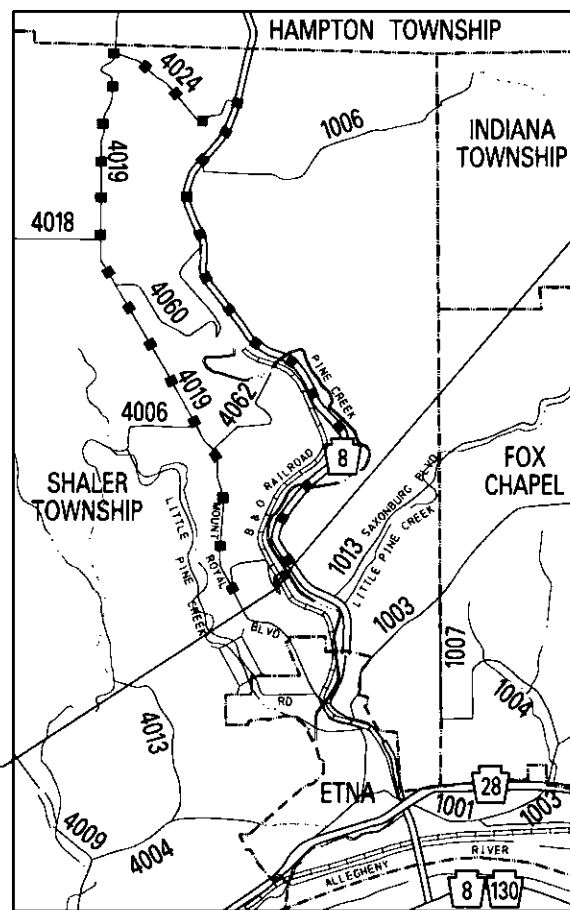
LEGEND OF SYMBOLS FOR SEEDING AND SOIL SUPPLEMENTS:

----- SEEDING AND SOIL SUPPLEMENTS FORMULA D (SLOPES 3:1 AND FLATTER) ON TOPSOIL 4" DEPTH

DRAINAGE ADJUSTMENTS, CLEANING AND MAINTENANCE WORK MAY BE DONE OUTSIDE OF THE LEGAL RIGHT-OF-WAY IN ACCORDANCE WITH ACT 314 OF THE HIGHWAY ACT OF 1945, P.L. 142.

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

STD. DRAWING	DATE
RC-10M	JUNE 1, 2010
RC-11M	JUNE 1, 2010
RC-12M	JUNE 1, 2010
RC-13M	JUNE 1, 2010
RC-23M	JUNE 1, 2010
RC-25M	JUNE 1, 2010
RC-30M	JUNE 1, 2010
RC-31M	JUNE 1, 2010
RC-45M	JUNE 1, 2010
RC-46M	JUNE 1, 2010
RC-50M	JUNE 1, 2010
RC-52M	JUNE 1, 2010
RC-54M	JUNE 1, 2010
RC-70M	JUNE 1, 2010
RC-72M	JUNE 1, 2010
RC-75M	JUNE 1, 2010
RC-77M	JUNE 1, 2010
BC-734M	OCT 26, 2010
BC-735M	OCT 26, 2010
BC-736M	MAY 18, 2012
BC-739M	MAY 18, 2012
BC-751M	NOV 21, 2014
BC-752M	NOV 21, 2014
BC-755M	NOV 26, 2013
BC-775M	NOV 26, 2013
BC-788M	NOV 21, 2014
TC-8600	JUNE 13, 2013
TC-8716	JUNE 13, 2013



LIMIT OF WORK
STA 31+50.00
EAST PENNVIEW STREET
TOWNSHIP OF SHALER
ALLEGHENY COUNTY

LEGEND

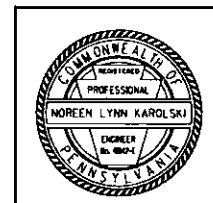
- LIMITED ACCESS HIGHWAY
- STATE ROUTE
- TOWNSHIP ROAD
- PROJECT
- DE TOUR

EARTHWORK SUMMARY ENTIRE PROJECT

THE INFORMATION ON ESTIMATED AMOUNTS OF EARTHWORK HAS BEEN USED IN THE PRELIMINARY ESTIMATE. DO NOT USE AS A WAIVER OF ANY PROVISIONS OF THE SPECIFICATIONS AND CONTRACTS.

CUBIC YARDS OF EXCAVATION						CUBIC YARDS OF COMPLETED EMBANKMENT*	CUBIC YARDS OF BORROW EXCAVATION	CUBIC YARDS OF WASTE	CUBIC YARDS OF BORROW STRUCTURE BACKFILL **
CLASS 1	CLASS 1A	CLASS 1B	CLASS 2	CLASS 3	CLASS 4				
118	118	—	21	1173	149	1956	640	1579	1316

- * INCLUDES ALL BORROW ITEMS
- ** PART OF LUMP SUM STRUCTURE ITEMS



County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

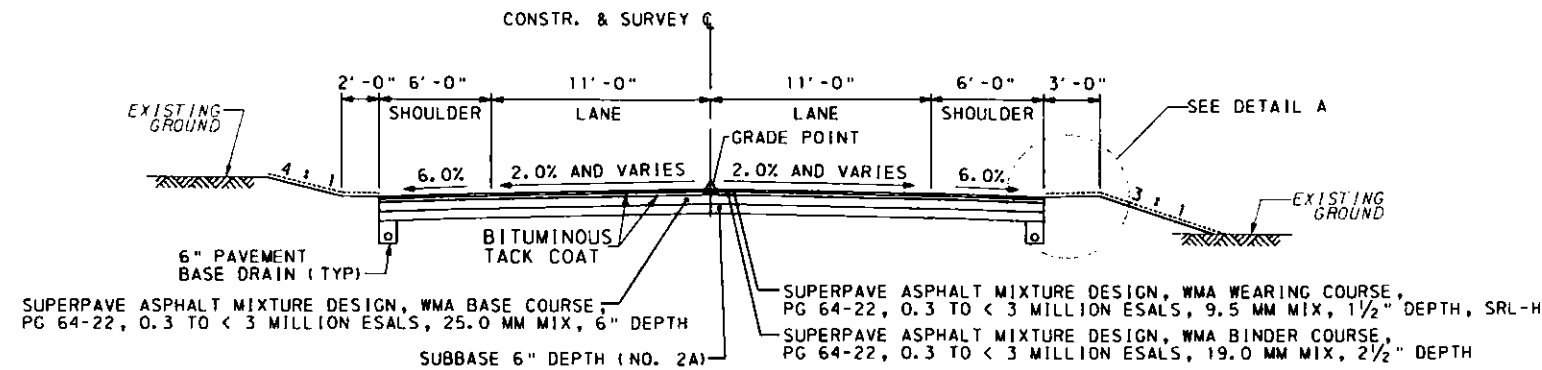
CONSTRUCTION DRAWING
LOCATION MAP/
GENERAL NOTES

PINE CREEK BRIDGE NO. II
P111-0211

DES. N.L.K.	DRW. J.R.A.	CHK. J.A.S.	26048
DATE 9/15	SCALE AS NOTED	SHEET 3 OF 12	

3/24/2016
J:\PROJECTS\00-CADD\roadway\CONSTR\T\ne ck Constr General Notes.dgn

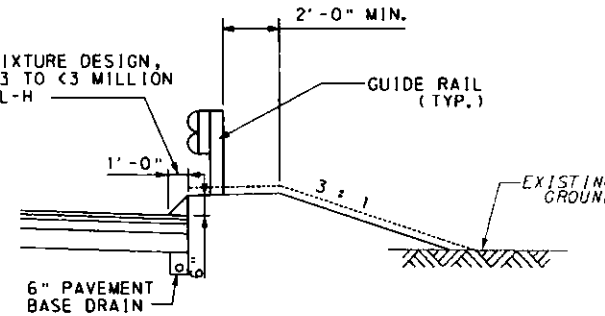
J:\PROJECTS\76051-00\CADD\roadway\CONSTR\Plan CK Const- typsect.dgn 3/24/2016



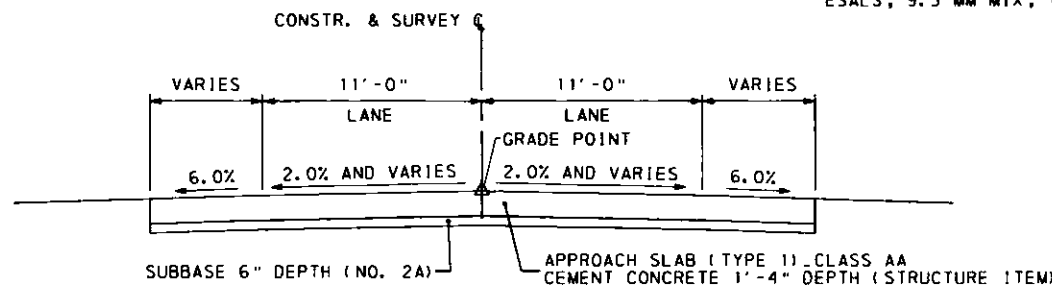
TYPICAL SECTION-EAST PENNVIEW STREET

(TANGENT)
 STA. 28+38.00 TO STA. 28+90.00
 STA. 30+46.26 TO STA. 30+54.00

BITUMINOUS CONCRETE CURB
 INCIDENTAL TO SUPERPAVE ASPHALT MIXTURE DESIGN,
 WMA WEARING COURSE, PG 64-22, 0.3 TO < 3 MILLION
 ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-H

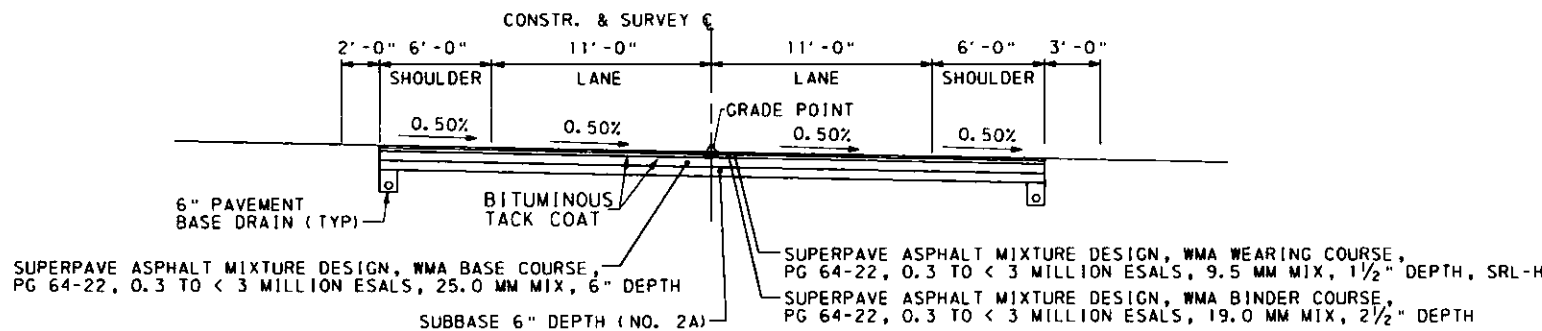


DETAIL A
 STA. 28+38.00 TO STA. 28+82, RT.



APPROACH SLAB TYPICAL SECTION-EAST PENNVIEW STREET

(TANGENT)
 STA. 30+21.26 TO STA. 30+46.26

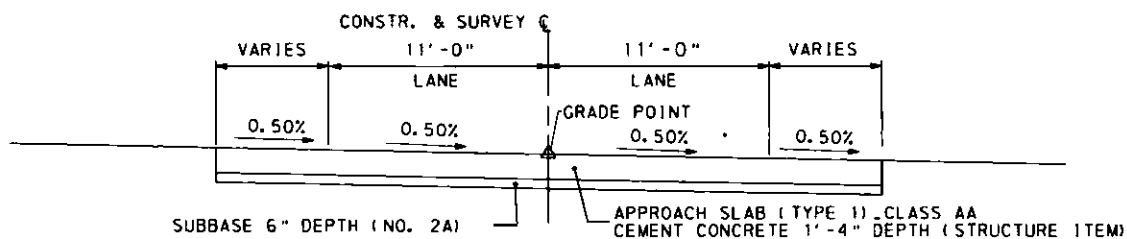


TYPICAL SECTION-EAST PENNVIEW STREET

(SUPERELEVATION)
 STA. 28+90.00 TO STA. 29+22.00

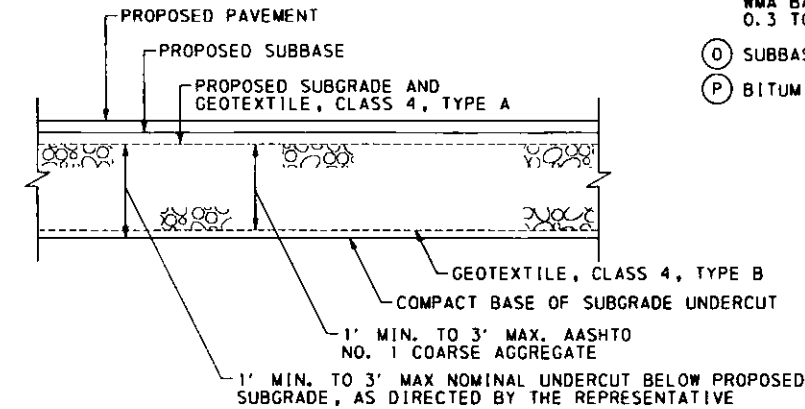
AT GRADE RAILROAD CROSSING (BY OTHERS)

STA. 29+22.00 TO STA. 29+36.50



APPROACH SLAB TYPICAL SECTION-EAST PENNVIEW STREET

(SUPERELEVATION)
 STA. 29+36.50 TO STA. 29+50.55

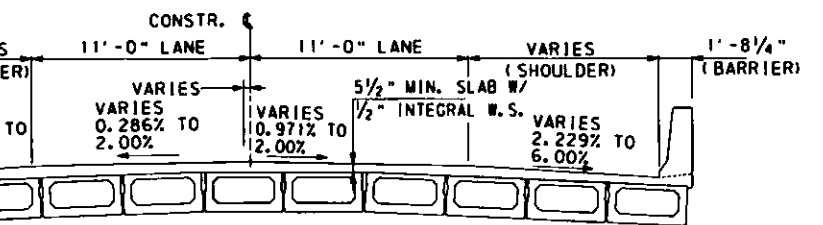


AS DIRECTED SUBGRADE UNDERCUT DETAIL
 ITEM 9000-208]

- PERFORM SPECIAL ROLLING TO DETERMINE WEAK SUBGRADE AREAS, ITEM 0208-0001.
- PERFORM UNDERCUTTING/EXCAVATION AT LOCATIONS AS DIRECTED BY THE REPRESENTATIVE. DEPTH OF UNDERCUT 1' MIN TO 3' MAX IN ACCORDANCE WITH ITEM 9000-2081 AND AS DIRECTED.
- COMPACT THE BOTTOM OF UNDERCUT.
- GEOTEXTILE, CLASS 4 TYPE B TO BE USED FOR STABILIZATION.
- PLACE SELECTED BORROW EXCAVATION, COARSE AGGREGATE, NO. 1 IN 8" MAX LIFTS.
- GEOTEXTILE, CLASS 4 TYPE A TO BE USED FOR LAYER SEPARATION.
- 8" OF NO. 1 COARSE AGGREGATE OR 6" OF SUBBASE MATERIAL IS TO BE IN PLACE ON GEOTEXTILE BEFORE PERMITTING COMPACTION.

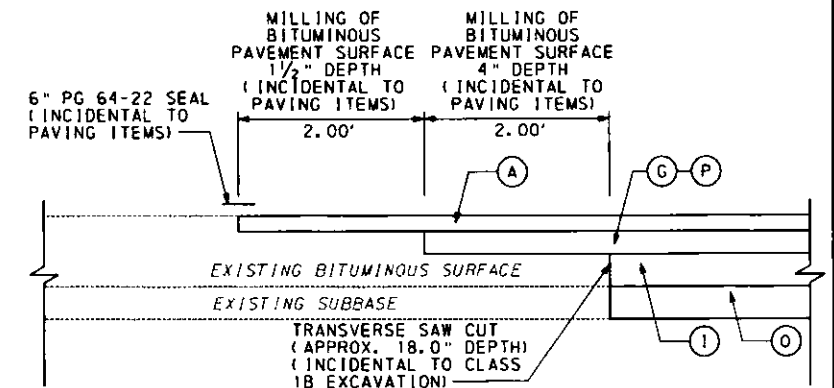
LEGEND

----- FORMULA D (SLOPES 3:1 AND FLATTER)



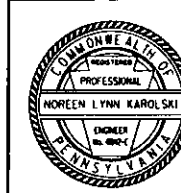
BRIDGE SECTION - EAST PENNVIEW STREET

N.T.S.
 STA. 29+50.55 TO STA. 30+21.16



- (A) SUPERPAVE ASPHALT MIXTURE DESIGN, WMA WEARING COURSE, PG 64-22, 0.3 TO < 3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-H.
- (C) SUPERPAVE ASPHALT MIXTURE DESIGN, WMA BINDER COURSE, PG 64-22, 0.3 TO < 3 MILLION ESALS, 19.0 MM MIX 2 1/2" DEPTH
- (I) SUPERPAVE ASPHALT MIXTURE DESIGN, WMA BASE COURSE, PG 64-22, 0.3 TO < 3 MILLION ESALS, 25.0 MM MIX (MIN. 6" DEPTH)
- (O) SUBBASE (NO. 2A) (MIN. 6" DEPTH)
- (P) BITUMINOUS TACK COAT

TYPICAL TIE IN DETAIL TO EXISTING PAVEMENT
 NTS



County of Allegheny Pittsburgh, Pennsylvania Department of Public Works			
CONSTRUCTION DRAWING TYPICAL SECTIONS PINE CREEK BRIDGE NO. II P111-0211			
DES. N.L.K.	DRW. J.R.A.	CHK. J.A.S.	26048
DATE 9/15	SCALE AS NOTED	SHEET 4 OF 12	

SUMMARY

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				11-0	ALLEGHENY	000		5 OF 12
SHALER								

◆ - SEE SPECIAL PROVISIONS

QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	
	UNIT					UNIT					UNIT					UNIT				
	0201 0001	CLEARING AND GRUBBING		NO TAB						50	0867 0022	COMPOST FILTER SOCK, 24" DIAMETER		10	AND 70	9000 0105	42" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSON		3	STR
	LS										LF									
118	0203 0001	CLASS 1 EXCAVATION		7		0608 0001	MOBILIZATION		NO TAB						AND 20	9000 0106	36" DIAMETER DRILLED CAISSONS, ROCK SOCKET		3	STR
	CY					LS														
21	0204 0001	CLASS 2 EXCAVATION		8		0609 0003	INSPECTOR'S FIELD OFFICE AND INSPECTION FACILITIES, TYPE B		NO TAB						AND 84	9000 0107	36" DIAMETER DRILLED CAISSONS, SHAFT SECTION		3	STR
	CY					LS														
76	0205 0100	FOREIGN BORROW EXCAVATION		7		0609 0009	EQUIPMENT PACKAGE		NO TAB				TCP		AND 84	9000 0108	36" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSON		3	STR
	CY					LS														
790	4205 0367	SELECTED BORROW EXCAVATION ROCK, CLASS R-7 INCLUDES ROCK, CLASS R-4		7	120	0810 7000	PAVEMENT BASE DRAIN		8	30	0901 0231	ADDITIONAL WARNING LIGHTS, TYPE B		TCP	AND 50	9000 0109	30" DIAMETER DRILLED CAISSONS, ROCK SOCKET		3	STR
	TON					LF					DAY									
4	0208 0001	SPECIAL ROLLING		7	35	0812 0001	SUBGRADE DRAINS		8	100	0901 0240	ADDITIONAL TRAFFIC CONTROL SIGNS		TCP	AND 21	9000 0110	CSL TESTING		3	STR
	HOUR					LF					SF									
155	0212 0001	GEOTEXTILE, CLASS 1		8	4	0820 0010	TYPICAL AND ALTERNATE CONCRETE BRIDGE BARRIER TRANSITION WITHOUT INLET PLACEMENT		9	4	0937 0114	GUIDE RAIL MOUNTED DELINEATOR TYPE D, (W/W)		9	AND 50	9000 0111	HQ CORING		3	STR
	LF					EACH					EACH									
23	0212 0014	GEOTEXTILE, CLASS 4, TYPE A		10						6	0937 0232	BARRIER MOUNTED DELINEATOR, TOP-MOUNT TYPE S, (W/W)		9	AND 21	9000 0112	TIP TESTING		3	STR
	SY										EACH									
351	0311 0426	SUPERPAVE ASPHALT MIXTURE DESIGN, WMA BASE COURSE, PG 84-22, 0.3 TO < 3 MILLION ESALS, 25.0 MM MIX, 6" DEPTH		7	4	0820 0400	TERMINAL SECTION, SINGLE		9	1728	4962 1000	4" WHITE WATERBORNE PAVEMENT MARKINGS MODIFIED		7	OR	8000 0001	PRESTRESSED CONCRETE BRIDGE STRUCTURE		3	STR
	SY					EACH					LF									
					38	0620 1100	TYPE 2-SC GUIDE RAIL		9	1728	4962 1005	4" YELLOW WATERBORNE PAVEMENT MARKINGS MODIFIED		7	AND (-)	1006 0610	TEST HOLES		3	STR
						LF					LF									
494	0350 0106	SUBBASE 6" DEPTH (NO. 2A)		7						4	4982 1051	WHITE WATERBORNE PAVEMENT LEGEND, "RR CROSSING", 8'-6", 11' LANE WIDTH (INCLUDES "X", "RR", AND 2 TRANSVERSE BANDS) MODIFIED		7	AND (-)	9000 0101	60" DIAMETER DRILLED CAISSONS, SHAFT SECTION		3	STR
	SY										EACH									
385	0411 0482	SUPERPAVE ASPHALT MIXTURE DESIGN, WMA WEARING COURSE, PG 84-22, 0.3 TO < 3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-H		7		0688 0050	CONSTRUCTION SURVEYING, TYPE D		NO TAB						AND (-)	9000 0102	60" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSON		3	STR
	SY					LS														
702	0411 6450	SUPERPAVE ASPHALT MIXTURE DESIGN, WMA BINDER COURSE, PG 84-22, 0.3 TO < 3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH		7		0688 0002	MICROCOMPUTER WITH BATTERY BACKUP SYSTEM, TYPE A		NO TAB	4	4971 0001	REMOVE POST MOUNTED SIGNS, TYPE B MODIFIED		7	AND (-)	9000 0103	54" DIAMETER DRILLED CAISSONS, ROCK SOCKET		3	STR
	SY					LS					EACH									
1404	0480 0001	BITUMINOUS TACK COAT		7		0689 0002	NETWORK SCHEDULE		NO TAB					NO TAB	AND (-)	9000 0104	42" DIAMETER DRILLED CAISSONS, SHAFT SECTION		3	STR
	SY					LS					LS									
351	0491 0014	MILLING OF BITUMINOUS PAVEMENT SURFACE, 2 1/2" DEPTH, MILLED MATERIAL RETAINED BY CONTRACTOR		7											AND (-)	9000 0105	42" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSON		3	STR
	SY																			
EITHER 38	4801 0500	18" THERMOPLASTIC PIPE, GROUP VI, 15'-2" FILL, SHORE/TRENCH BOX MODIFIED	1	8	6	4802 0001	TOPSOIL FURNISHED AND PLACED MODIFIED		10						AND (-)	9000 0106	36" DIAMETER DRILLED CAISSONS, ROCK SOCKET		3	STR
	LF					CY														
OR 38	4801 7710	18" REINFORCED CONCRETE PIPE, TYPE B, 15' - 3' FILL, SHORE/TRENCH BOX MODIFIED	1	8	1	0804 0003	SEEDING AND SOIL SUPPLEMENTS - FORMULA D INCLUDING MULCH		10						AND (-)	9000 0107	36" DIAMETER DRILLED CAISSONS, SHAFT SECTION		3	STR
	LF					LB														
OR 38	4801 4033	18" CORRUGATED GALVANIZED STEEL PIPE, TYPE I, (2 2/3" X 1/2" CORRUGATIONS), 14 GAGE, SHORE/TRENCH BOX MODIFIED	1	8	1	0804 0004	SEEDING - FORMULA E, INCLUDING MULCH		10	EITHER	8020 0001	BRIDGE STRUCTURE, AS DESIGNED, BPA 02-3008	3	STR	AND (-)	9000 0108	36" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSON		3	STR
	LF					LB					LS									
80	0601 5901	CLEANING EXISTING PIPE CULVERTS, DIAMETERS UP TO AND INCLUDING 36"		8	2000	0845 0001	UNFORESEEN WATER POLLUTION CONTROL		NO TAB		AND 58693	REINFORCEMENT BARS, EPOXY COATED	3	STR	AND (-)	9000 1109	30" DIAMETER DRILLED CAISSONS, ROCK SOCKET		3	STR
	LF					DOLLA					LB									
EITHER 50	4801 7313	18" REINFORCED CONCRETE PIPE, TYPE B, 15' - 1.5' FILL MODIFIED	2	8	2	0849 0010	ROCK CONSTRUCTION ENTRANCE		10	AND 592	1006 0610	TEST HOLES	3	STR	AND (-)	9000 1110	CSL TESTING		3	STR
	LF					EACH					LF									
OR 50	4801 0400	18" THERMOPLASTIC PIPE, GROUP VI, 15'-2" FILL MODIFIED	2	8	2	0855 0003	PUMPED WATER FILTER BAG		10	AND 133	9000 0101	60" DIAMETER DRILLED CAISSONS, SHAFT SECTION	3	STR	AND (-)	9000 1111	HQ CORING		3	STR
	LF					EACH					LF									
2	0805 2731	TYPE M CONCRETE TOP UNIT AND BICYCLE SAFE GRATE		8	1	0855 0004	REPLACEMENT PUMPED WATER FILTER BAG		10	AND 133	9000 0102	60" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSON	3	STR						
	SET					EACH					LF									
2	0805 2850	STANDARD INLET BOX, HEIGHT <= 10'		8	3	0860 0000	INLET FILTER BAG FOR TYPE M INLET		10	AND 35	9000 0103	54" DIAMETER DRILLED CAISSONS, ROCK SOCKET	3	STR						
	EACH					EACH					LF									
1	0807 0200	REBUILT MANHOLE		8	140	0865 0001	SILT BARRIER FENCE, 18" HEIGHT		10	AND 70	9000 0104	42" DIAMETER DRILLED CAISSONS, SHAFT SECTION	3	STR						
	VF					LF					LF									



SUMMARY

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				11-0	ALLEGHENY	000		6 OF 12
SHALER								

◆ - SEE SPECIAL PROVISIONS

QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET
	UNIT					UNIT					UNIT					UNIT			
AND (-)	9000 1112	TIP TESTING	3	STR	5000	9000 0250	LOCATE EXISTING UNDERGROUND FACILITIES		NO TAB										
	EACH					DOLLA													
OR	8100 0001	STEEL BRIDGE STRUCTURE	3	STR	118	9000 2081	AS DIRECTED SUBGRADE UNDERCUT		7										
	LS					CY													
AND (-)	1006 0610	TEST HOLES	3	STR															
	LF																		
AND (-)	9000 0101	60" DIAMETER DRILLED CAISSONS, SHAFT SECTION	3	STR	1	9000 6056	CORE HOLE IN INLET BOX		8										
	LF					EACH													
AND (-)	9000 0102	60" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSON	3	STR		9073 2001	DISPOSAL OF BRIDGE WASTE		NO TAB										
	LF					LS													
AND (-)	9000 0103	54" DIAMETER DRILLED CAISSONS, ROCK SOCKET	3	STR		9075 2001	CONTAINMENT		NO TAB										
	LF					LS													
AND (-)	9000 0104	42" DIAMETER DRILLED CAISSONS, SHAFT SECTION	3	STR		9077 2001	WORKER HEALTH AND SAFETY		NO TAB										
	LF					LS													
AND (-)	9000 0105	42" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSON	3	STR		9203 2101	TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM		NO TAB										
	LF					LS													
AND (-)	9000 0106	36" DIAMETER DRILLED CAISSONS, ROCK SOCKET	3	STR															
	LF																		
AND (-)	9000 0107	36" DIAMETER DRILLED CAISSONS, SHAFT SECTION	3	STR															
	LF																		
AND (-)	9000 0108	36" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSON	3	STR															
	LF																		
AND (-)	9000 2109	30" DIAMETER DRILLED CAISSONS, ROCK SOCKET	3	STR															
	LF																		
AND (-)	9000 2110	CSL TESTING	3	STR															
	EACH																		
AND (-)	9000 2111	HQ CORING	3	STR															
	LF																		
AND (-)	9000 2112	TIP TESTING	3	STR															
	EACH																		
168	9000 0004	TEMPORARY COFFERDAM			10														
	LF																		
2	9000 0011	BRIDGE IDENTIFICATION PLAQUES							NO TAB										
	EACH																		
60	9000 0012	SAWCUT OF EXISTING PAVEMENT							7										
	LF																		
	9000 0013	JACKING BRIDGE SUPERSTRUCTURE							NO TAB										
	LS																		
	9000 0014	SURVEY MARKER							NO TAB										
	LS																		
	9000 0113	TECHNIQUE SHAFT							STR										
	LS																		



TABULATION OF QUANTITIES

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				11-0	ALLEGHENY	000		8 OF 12
						SHALER		

(+) SEE SUMMARY SHEET FOR COMPLETE ITEM NUMBERS.

DRAINAGE

CLASS 2 EXCAVATION	GEOTEXTILE, CLASS 1	DESIGN NO. 1	CLEANING EXISTING PIPE CULVERTS, DIAMETERS UP TO AND INCLUDING 36"	DESIGN NO. 2	TYPE M CONCRETE TOP UNIT AND BICYCLE SAFE GRATE	STANDARD INLET BOX, HEIGHT 4-10'	REBUILT MANHOLE	PAVEMENT BASE DRAIN	SUBGRADE DRAINS	CORE HOLE IN INLET BOX	MAX DEPTH (FOR INFORMATION ONLY)		EMBANKMENT (FOR INFORMATION ONLY)		CLASS 4 EXCAVATION (FOR INFORMATION ONLY)	REMARKS	SIDE	STATIONS
											0204 0001 CY	0212 0001 LF	4601 (+) LF	0601 5901 LF				
	40							40								OUTLET IN INLET STA 28+80.00	RT	28+38.00 TO 28+80.00
	80							80								OUTLET IN PIPE STA 29+00.00	LT	28+38.00 TO 29+00.00
					50	1	1					4	9	35			RT/LT	28+80.00 TO 29+05.00
		40															LT	29+05.00 TO 29+25.00
		40															LT	29+26.00 TO 29+51.00
21																REMOVE PIPE AS NECESSARY	RT	30+08.00 TO 30+48.00
							1									SANITARY MANHOLE	LT	30+32.00
	35									35							LT/RT	30+48.00
		38			1	1						10	63	79			LT	30+58.00 TO 30+20.08
21	155	38	80	50	2	2	1	120	35	1		14	72	114				
TOTALS																		



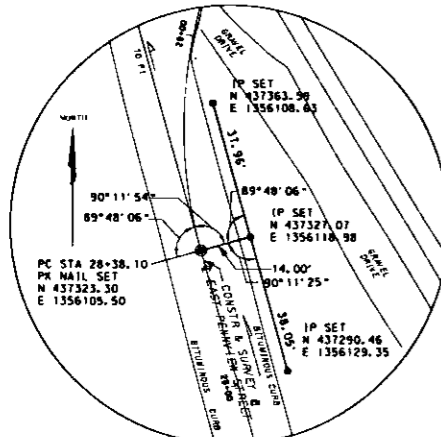
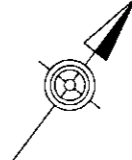
BM #1 ELEV 770.60
18.00' LT STA 28+55.15
EAST PENNVIEW STREET
BENCHMARK SET ON ROCK

BM #2 ELEV 765.84
4.19' RT STA 29+47.92
EAST PENNVIEW STREET
BENCHMARK FOUND ON PARAPET

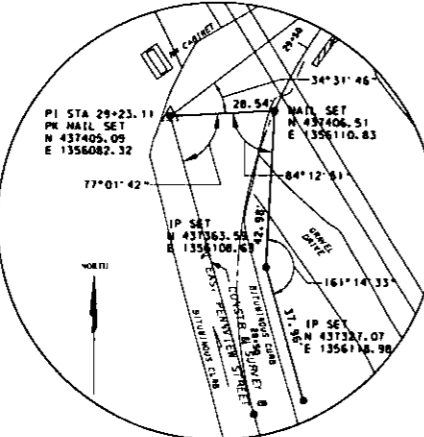
BM #3 ELEV 761.76
14.11' LT STA 29+57.55
EAST PENNVIEW STREET
BENCHMARK FOUND ON ABUTMENT

BM #4 ELEV 764.35
31.22' RT STA 31+52.66
EAST PENNVIEW STREET
BENCHMARK SET IN LAMP BASE

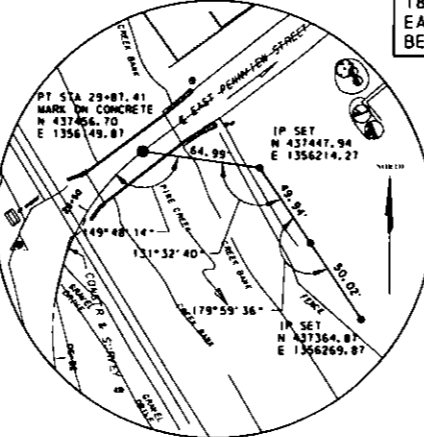
GALA LIMITED PARTNERSHIP, B.M.C. LP



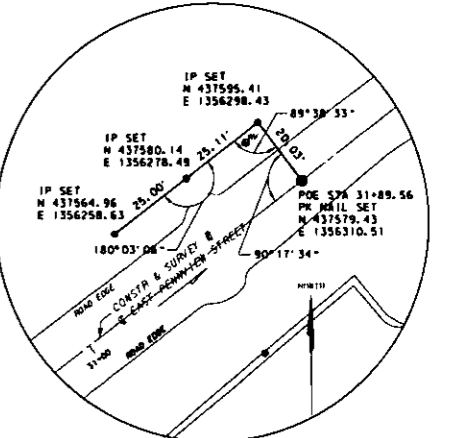
PC-STA 28+38.10
EAST PENNVIEW STREET
PK NAIL SET
NOT TO SCALE



PI-STA 29+23.11
EAST PENNVIEW STREET
PK NAIL SET
NOT TO SCALE



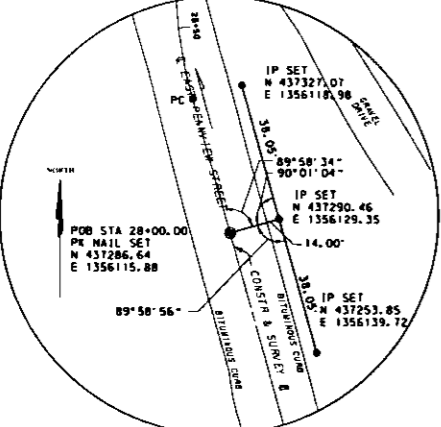
PT-STA 29+87.41
EAST PENNVIEW STREET
MARK ON CONCRETE
NOT TO SCALE



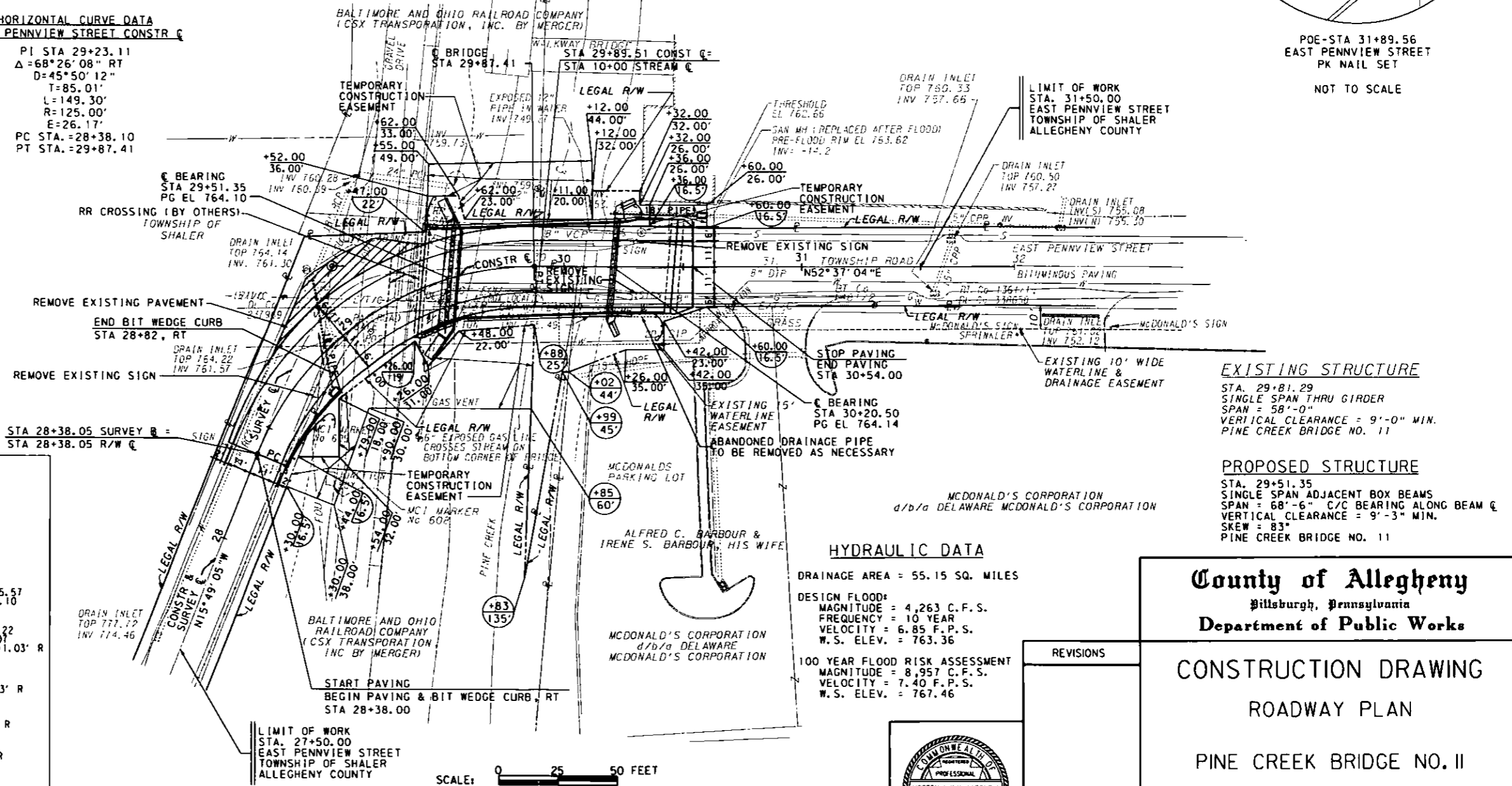
POE-STA 31+89.56
EAST PENNVIEW STREET
PK NAIL SET
NOT TO SCALE

**HORIZONTAL CURVE DATA
EAST PENNVIEW STREET CONSTR C**

PI STA 29+23.11
Δ = 68°26'08" RT
D = 45°50'12"
T = 85.01'
L = 149.30'
R = 125.00'
E = 26.17'
PC STA = 28+38.10
PT STA = 29+87.41



POB-STA 28+00.00
EAST PENNVIEW STREET
PK NAIL SET
NOT TO SCALE

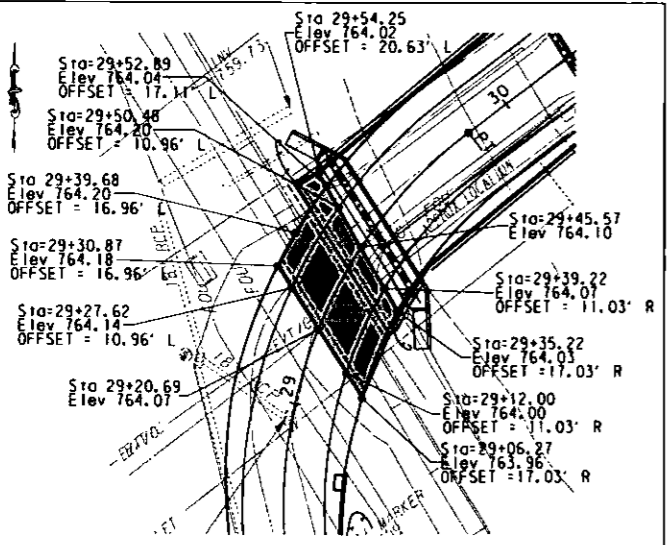


EXISTING STRUCTURE
STA. 29+81.29
SINGLE SPAN THRU GIRDER
SPAN = 58'-0"
VERTICAL CLEARANCE = 9'-0" MIN.
PINE CREEK BRIDGE NO. 11

PROPOSED STRUCTURE
STA. 29+51.35
SINGLE SPAN ADJACENT BOX BEAMS
SPAN = 68'-6" C/C BEARING ALONG BEAM C
VERTICAL CLEARANCE = 9'-3" MIN.
SKEW = 83°
PINE CREEK BRIDGE NO. 11

HYDRAULIC DATA

DRAINAGE AREA = 55.15 SQ. MILES
DESIGN FLOOD:
MAGNITUDE = 4,263 C.F.S.
FREQUENCY = 10 YEAR
VELOCITY = 6.85 F.P.S.
W.S. ELEV. = 763.36
100 YEAR FLOOD RISK ASSESSMENT
MAGNITUDE = 8,957 C.F.S.
VELOCITY = 7.40 F.P.S.
W.S. ELEV. = 767.46



GRADING DETAIL
NTS

SCALE: 0 25 50 FEET



County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
ROADWAY PLAN
PINE CREEK BRIDGE NO. II
P111-0211

DES. N.L.K.	DRW. J.R.A.	CHK. J.A.S.	26048
DATE 9/15	SCALE AS NOTED	SHEET II OF 12	

FOR PROFILE SEE SHEET 12 OF 12 SURVEY BOOK NO. 238-2004

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TABULATION OF QUANTITIES

GUIDE RAIL

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				11-0	ALLEGHENY	000		12 OF 12
SHALER								



TYPICAL AND ALTERNATE CONCRETE BRIDGE BARRIER TRANSITION WITHOUT INLET PLACEMENT			TERMINAL SECTION, SINGLE			TYPE 2-SC GUIDE RAIL			GUIDE RAIL MOUNTED DELINEATOR TYPE D, (WW)			BARRIER MOUNTED DELINEATOR, TOP-MOUNT TYPE S, (WW)			REMARKS	SIDE	STATIONS
0620 0010 EACH	0620 0400 EACH	0620 1100 LF	0937 0114 EACH	0937 0232 EACH													
ITEM NUM		UNIT															
1	1	12.5	1													RT	29+26.00 TO 29+34.00
				3												RT	29+38.00 TO 30+35.00
1	1	12.5	1													LT	29+50.00
				3												LT	29+50.00 TO 30+35.00
1	1		1													LT	30+30.00
1	1	12.5	1													RT	30+35.00
4	4	37.5	4	6													TOTALS

TABULATION OF QUANTITIES

EROSION AND SEDIMENT POLLUTION CONTROL

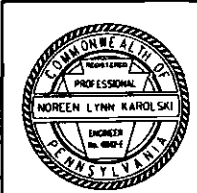
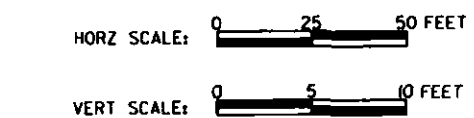
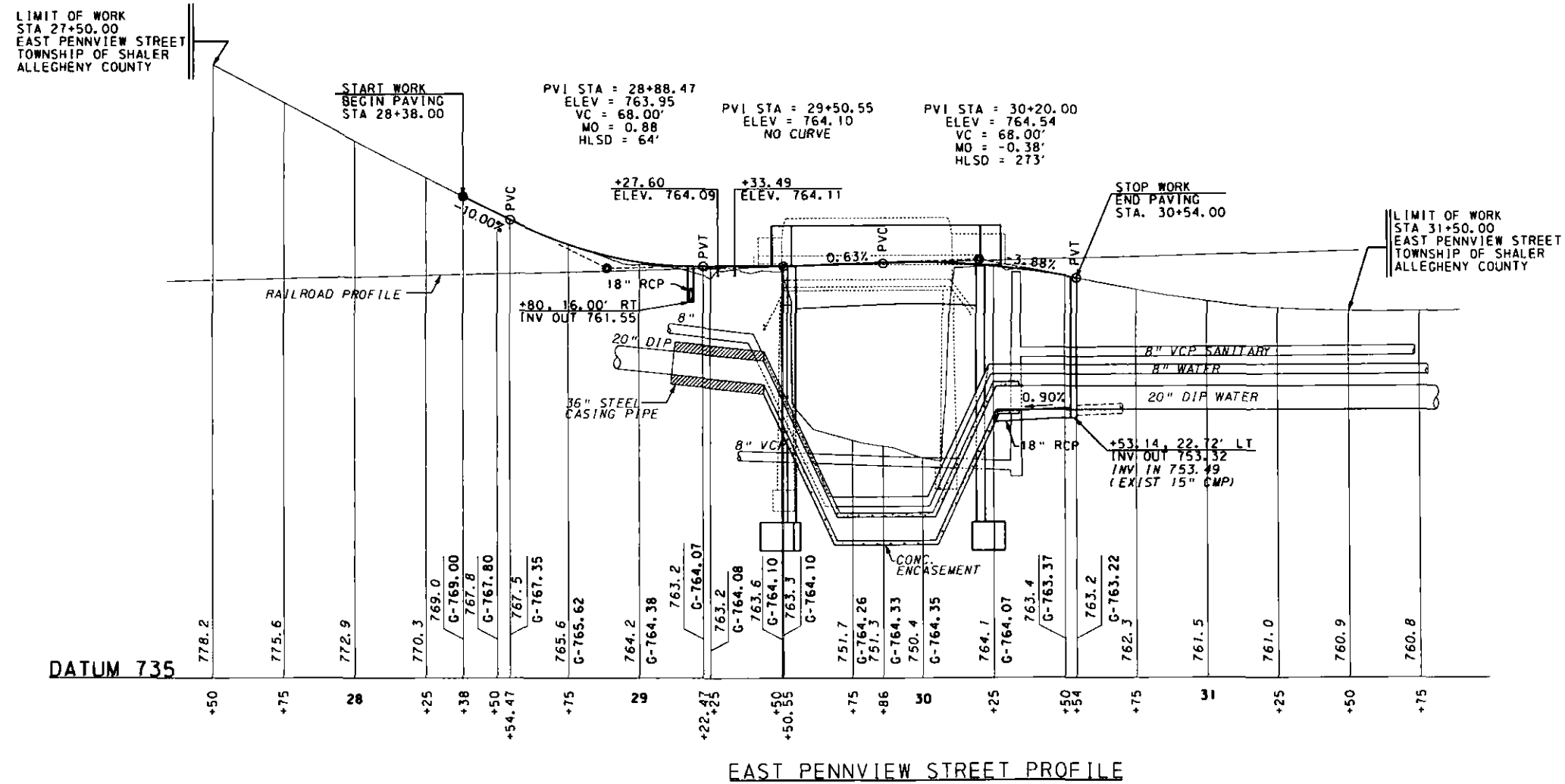
REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				11-0	ALLEGHENY	000		12 OF 12
SHALER								



GEOTEXTILE, CLASS 4, TYPE A		TOPSOIL FURNISHED AND PLACED MODIFIED		SEEDING AND SOIL SUPPLEMENTS - FORMULA D INCLUDING MULCH		SEEDING - FORMULA E, INCLUDING MULCH		ROCK CONSTRUCTION ENTRANCE		PUMPED WATER FILTER BAG		REPLACEMENT PUMPED WATER FILTER BAG		INLET FILTER BAG FOR TYPE M INLET		SILT BARRIER FENCE, 18" HEIGHT		COMPOST FILTER SOCK, 24" DIAMETER		TEMPORARY COFFERDAM		REMARKS	SIDE	STATIONS	
0212 SY	0014	4802 0001	CY	0804 0003	LB	0804 0004	LB	0849 0010	EACH	0855 0003	EACH	0855 0004	EACH	0880 0000	EACH	0885 0001	LF	0887 0022	LF	9000 0004	LF				
		6		1	1	2		2		2		1				65							ENTIRE PROJECT (AS DIRECTED)	RT	28+38.00 TO 29+10.00
23																		50					ENTIRE PROJECT WASHOUT FACILITY		28+38.00 TO 30+54.00
														1										RT	28+80.00
														1										LT	29+05.00
																				88					29+60.00
																				80					30+05.00
																60								RT	30+14.00 TO 30+54.00
																15								RT	30+28.00 TO 30+50.00
													1											LT	30+58.00
23	6	1	1	2	2	1		3	140	50	188														TOTALS

3/24/2016

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County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

REVISIONS

CONSTRUCTION DRAWING
ROADWAY PROFILE
PINE CREEK BRIDGE NO. II
P|11-0211

DES. N.L.K.	DRW. J.R.A.	CHK. J.A.S.	26048
DATE 9/15	SCALE AS NOTED	SHEET 120F 12	

FOR PLAN SEE SHEET 11 OF 12 SURVEY BOOK NO. 238-2004

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.

FURNISH, ERECT, PLACE AND MAINTAIN TRAFFIC CONTROL SIGNS AND DEVICES AND MAINTAIN TRAFFIC DURING HOURS OF 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 212, OFFICIAL TRAFFIC CONTROL DEVICES. (MARCH 2006).
3. PDT PUBLICATION 213, TEMPORARY TRAFFIC CONTROL GUIDELINES. (JUNE 2014).
4. PDT PUBLICATION 35, APPROVED CONSTRUCTION MATERIALS (BULLETIN 15). (CURRENT REVISION).
5. PDT PUBLICATION 408, SPECIFICATIONS, DATED 2016.
6. PDT PUBLICATION 236, HANDBOOK OF APPROVED SIGNS. (NOVEMBER 2013).
7. PDT PUBLICATION III, TRAFFIC CONTROL-PAYMENT MARKINGS AND SIGNING STANDARDS, TC-8600 AND TC-8700 SERIES.
8. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), (2009 EDITION).

IMMEDIATELY UPON COMPLETION OF THE WORK, REMOVE SIGNS AND DEVICES. FOR TYPE "B" AND TYPE "C" MOUNTED SIGNS, REMOVE POSTS COMPLETELY. THE DEPARTMENT WILL REMOVE ANY TRAFFIC CONTROL DEVICES ERECTED BY DEPARTMENT FORCES.

THE TRAFFIC CONTROL PLAN DOES NOT RELIEVE THE CONTRACTOR OF ITS RESPONSIBILITY AS SPECIFIED IN SECTION 901.3(a) OF PENNDOT PUBLICATION 408.

SIGN LOCATIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.

ALL SIGNS AND DEVICES SHALL BE NEW AT THE BEGINNING OF THE PROJECT, AND MAINTAINED IN NEW CONDITION AND TO PENNDOT'S SATISFACTION THROUGHOUT THE DURATION OF THE PROJECT.

THESE PLANS HAVE BEEN REVIEWED AND ARE IN COMPLIANCE WITH STANDARDS PRESCRIBED IN CHAPTER 212 OF THE 67 PA. CODE AS CURRENTLY AMENDED.

NOTE THAT THIS APPROVAL DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR THE PROTECTION OF THE PUBLIC AND THE CONSTRUCTION PERSONNEL. THE STANDARDS PRESCRIBED ARE MINIMUM AND ADDITIONAL PROTECTION MAY BE NECESSARY IF PROBLEMS ARE ENCOUNTERED DURING THE TERM OF THE CONTRACT. CONSTANTLY REVIEW THIS PLAN FOR ADEQUACY AND RECOMMEND CHANGES FOR DEPARTMENT APPROVAL WHEN INADEQUACIES ARE DISCOVERED.

THE CONTRACTOR HAS THE OPTION TO SUBMIT ALTERNATE TRAFFIC CONTROL PLANS FOR CONSIDERATION. THESE PLANS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF PENNSYLVANIA, AND SHALL BE CONSISTENT WITH STANDARD DESIGN PRACTICES. THE DEPARTMENT WILL ALLOW NO CONSTRUCTION ACTIVITY UNTIL THE CONTRACTOR'S ALTERNATE PLANS ARE APPROVED IN WRITING BY THE DISTRICT TRAFFIC ENGINEER. MODIFICATIONS TO THE APPROVED MPT PLAN SHALL BE APPROVED BY THE DISTRICT TRAFFIC ENGINEER OR AUTHORIZED REPRESENTATIVE.

THE CONTRACTOR SHALL HAVE A SUFFICIENT AMOUNT OF THE FOLLOWING SIGNS AVAILABLE IN CASE THEIR USE BECOMES NECESSARY: W3-4 "BE PREPARED TO STOP" AND W20-7 "FLAGGER SYMBOL". THESE SIGNS ARE NOT INTENDED TO BE PART OF THE REQUIRED NORMAL TRAFFIC CONTROL OR A SUPPLEMENT THERETO.

REPORT ALL TRAFFIC INCIDENTS WITHIN THE PROJECT LIMITS TO THE DISTRICT TRAFFIC ENGINEER BY COPY OF THE TRAFFIC ACCIDENT REPORT FROM THE PA STATE POLICE AND LOCAL POLICE.

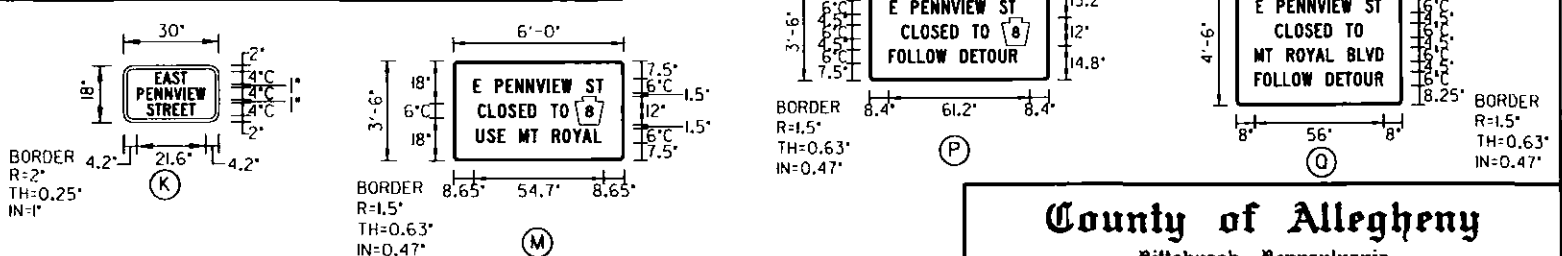
THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE PA ONE-CALL SYSTEM, INC. AT 1-800-242-1776 AT LEAST THREE (3) WORKING DAYS PRIOR TO DIGGING. PA ONE-CALL SHOULD BE CONTACTED BEFORE ANY SIGN POST ANCHOR IS DRIVEN INTO THE GROUND FOR ANY TEMPORARY AND/OR PERMANENT SIGNING.

TABULATION OF TRAFFIC CONTROL DEVICES
(FOR INFORMATION PURPOSES ONLY)

CODE	DESCRIPTION	SIZE	REG. NO.	QTY.
A	RIGHT DETOUR	30" x 24"	M4-9R	3
B	LEFT DETOUR	30" x 24"	M4-9L	2
C	STRAIGHT DETOUR	30" x 24"	M4-9S	13
D	END DETOUR	24" x 18"	M4-8A	2
E	ROAD CLOSED	36" x 36"	W20-3	3
1	500 FEET	20" x 6"	W30-1-1	1
2	1000 FEET	20" x 6"	W30-1-2	3
3	1500 FEET	20" x 6"	W30-1-3	3
F	ROAD CLOSED	48" x 30"	R11-2	4
G	ROAD CLOSED XXX AHEAD LOCAL TRAFFIC ONLY	60" x 30"	R11-3A	4
H	DETOUR ARROW RIGHT	48" x 18"	M4-10R	2
J	DETOUR ARROW LEFT	48" x 18"	M4-10L	2
K	EAST PENNVIEW ST	30" x 18"	SPECIAL	30
L	THIS BRIDGE TO CLOSE "MONTH", "DATE", "YEAR"	60" x 30"	SPECIAL	2
M	E PENNVIEW ST CLOSED TO [B] USE MT ROYAL	72" x 42"	SPECIAL	1
N	ADVANCE RIGHT DETOUR	30" x 24"	M4-9SR	4
O	ADVANCE LEFT DETOUR	30" x 24"	M4-9SL	2
P	E PENNVIEW ST CLOSED TO [B] FOLLOW DETOUR	78" x 42"	SPECIAL	1
Q	E PENNVIEW ST CLOSED TO TO MT. ROYAL BLVD FOLLOW DETOUR	72" x 54"	SPECIAL	2
R	DETOUR	36" x 36"	W20-2	4
LL	TYPE III BARRICADE	---	---	15
#	TYPE B FLASHER (YELLOW)	---	---	18

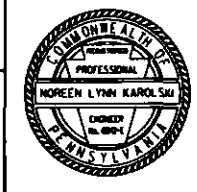
TABULATION OF SEPARATE PAY ITEMS

30	0901 0231 DAY	ADDITIONAL WARNING LIGHTS, TYPE B
100	0901 0240 SF	ADDITIONAL TRAFFIC CONTROL SIGNS



SPECIAL SIGN DETAILS

NTS
SPECIAL SIGN DATA
BACKGROUND-ORANGE REFLECTIVE
LETTERING & TRIM-BLACK
SERIES C LETTERING
RECOMMENDED _____ 20 _____
DISTRICT TRAFFIC ENGINEER



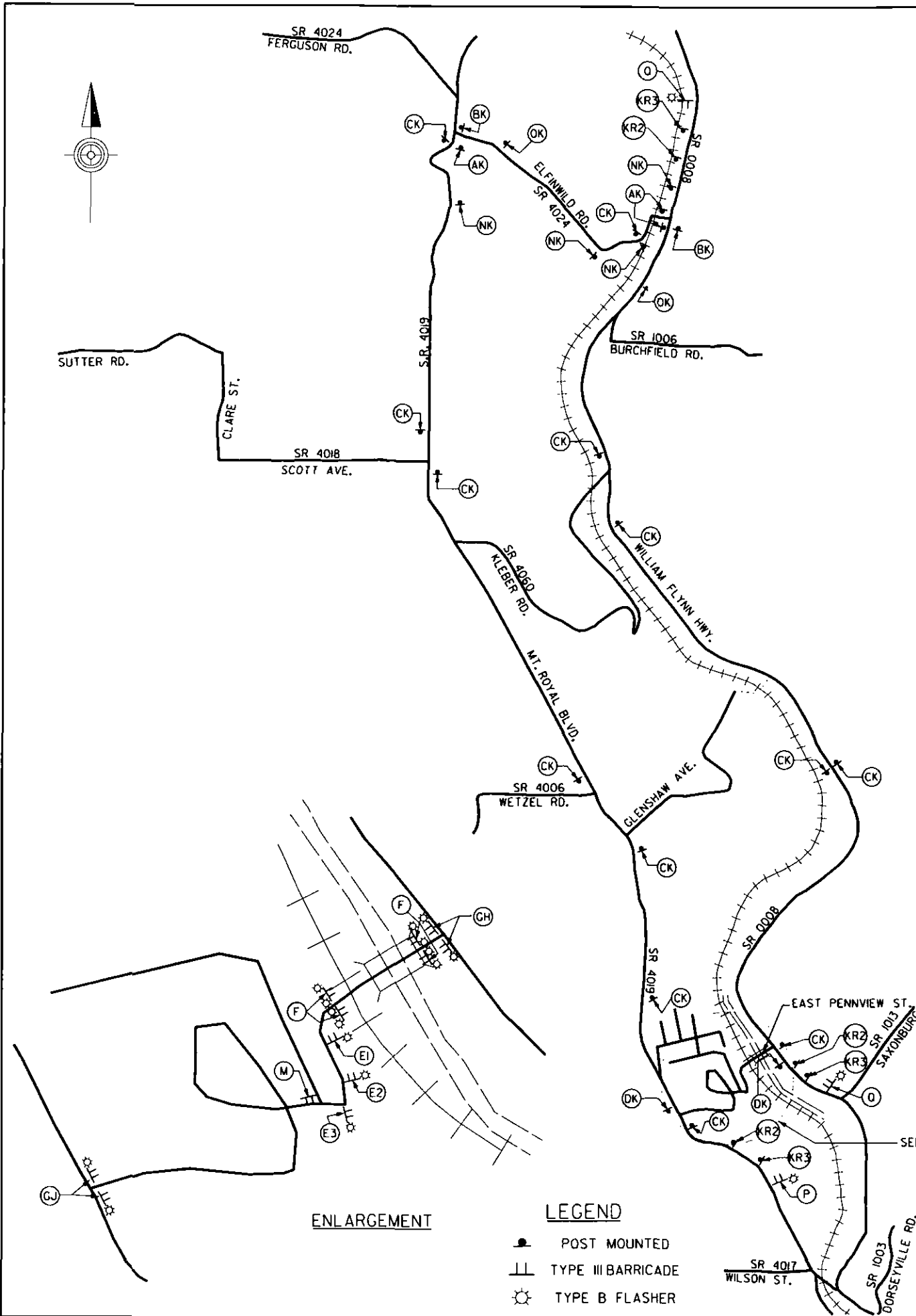
REVISIONS

NO.	DATE	DESCRIPTION

County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
TRAFFIC CONTROL PLAN
PINE CREEK BRIDGE NO. II
P111-0211

DES. N.L.K.	DRW. J.R.A.	CHK. J.A.S.	26048
DATE 9/15	SCALE AS NOTED	SHEET 1 OF 1	



LEGEND
 POST MOUNTED
 TYPE III BARRICADE
 TYPE B FLASHER

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EROSION AND SEDIMENTATION GENERAL NOTES

GENERAL NOTES CON'T.

A COPY OF THE APPROVED DRAWINGS (STAMPED SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.

AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES (INCLUDING CLEARING AND GRUBBING), THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE DEPARTMENT REPRESENTATIVE, APPROPRIATE MUNICIPAL OFFICIALS AND A REPRESENTATIVE FROM THE WESTMORELAND COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.

AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE ALLEGHENY COUNTY CONSERVATION DISTRICT.

CLEARING, GRUBBING AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPs SPECIFIED BY THE CONSTRUCTION SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.

AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.

STOCK PILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2H:1V OR FLATTER.

IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BMPs TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE WESTMORELAND COUNTY CONSERVATION DISTRICT.

ALL BUILDING MATERIALS AND WASTES MUST BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE CHAPTER 260. 260.1 ET. SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED OR DISCHARGED AT THE SITE.

ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE ALLEGHENY COUNTY CONSERVATION DISTRICT PRIOR TO BEING ACTIVATED.

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANY ANALYTICAL TESTING.

ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREA.

UNTIL THE SITE IS STABILIZED, ALL E&S BMPs MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL E&S BMPs AFTER EACH RUNOFF EVENT ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.

A LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.

SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.

ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.

AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 4 INCHES PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.

ALL FILL SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.

ALL FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.

FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOIL, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.

FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.

FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.

SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.

ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED.

IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.

PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.

E&S BMPs MUST REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE ALLEGHENY COUNTY CONSERVATION DISTRICT.

FAILURE TO CORRECTLY INSTALL E&S BMPs, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPs MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.

DO NOT ALLOW WASH WATER TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.

RECOMMENDED SEQUENCE OF CONSTRUCTION

NOTE: CONSTRUCTION TO BE COMPLETED IN THE FOLLOWING SEQUENCE, UNLESS CONTRACTOR OBTAINS WRITTEN APPROVAL FOR MODIFICATION BY THE ALLEGHENY COUNTY CONSERVATION DISTRICT. DO NOT START NEW SUBSTAGE UNTIL PRIOR STAGE IS COMPLETED AND APPROVED, IN WRITING BY THE RESIDENT INSPECTOR. SEE PLANS FOR SPECIFIC EROSION ITEMS AND PLACEMENT.

1. ERECT ADVANCE WARNING SIGNS AND DEVICES, IMPLEMENT THE DETOUR AND CLOSE EAST PENNVIEW ST. TO VEHICULAR AND PEDESTRIAN TRAFFIC AT THE SITE.
2. INSTALL CONSTRUCTION ENTRANCES AND PUMPED WATER FILTER BAGS IN LOCATIONS AS DETERMINED BY THE CONTRACTOR. INSTALL SILT FENCE AT THE TOE OF FILL AND INLET FILTER BAG AS SHOWN ON THE PLAN.
3. INSTALL CAISSONS AT ABUTMENT 1.
4. REMOVE AND DISPOSE OF THE EXISTING DECK (CONTRACTOR WILL NOT BE PERMITTED TO DROP DECK INTO THE CREEK).
5. INSTALL TEMPORARY COFFERDAM AROUND EXISTING ABUTMENTS.
6. REMOVE EXISTING ABUTMENTS, DEWATER AS REQUIRED, PUMPING THRU SEDIMENT FILTER BAG.
7. CONSTRUCT PROPOSED ABUTMENTS.
8. ERECT BEAMS FROM EXISTING APPROACHES.
9. CONSTRUCT SUPERSTRUCTURE.
10. PLACE ROCK LINING FOR SCOUR PROTECTION AT ABUTMENTS.
11. REMOVE IN-STREAM TEMPORARY COFFERDAM.
12. EXCAVATE, GRADE ROADWAY AND INSTALL SUBBASE. STABILIZE SLOPES WITH SEED AND MULCH.
13. INSTALL INLETS AND DRAINAGE PIPES.
14. PAVE ROADWAY AND INSTALL GUIDERAIL.
15. REMOVE TRAFFIC CONTROL DEVICES AND REOPEN ROADWAY TO TRAFFIC.
16. REMOVE SILT BARRIER FENCE AND PUMPED WATER FILTER BAGS WHEN DISTURBED AREAS ARE STABILIZED (UNIFORM 70% PERENNIAL VEGETATIVE COVER).

NOTES:

VEGETATED AREAS SHALL BE CONSIDERED PERMANENTLY STABILIZED WHEN A UNIFORM 70% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIES HAS BEEN ACHIEVED, OR THE DISTURBED AREA IS COVERED WITH AN ACCEPTABLE BMPs WHICH PERMANENTLY MINIMIZES ACCELERATED EROSION AND SEDIMENTATION. UNTIL SUCH TIME AS THIS STANDARD IS ACHIEVED, INTERIM STABILIZATION MEASURES AND TEMPORARY EROSION AND SEDIMENT CONTROL BMPs THAT ARE USED TO TREAT PROJECT RUNOFF MAY NOT BE REMOVED.

BMP'S PLACED FOR ANY STAGE MUST REMAIN IN PLACE AND FUNCTIONAL UNTIL STABILIZATION OCCURS, UNLESS RENDERED VOID BY ANY SUBSEQUENT STAGE.

SHEET INDEX

SHEET	DESCRIPTION
1	NOTES & CONSTRUCTION SEQUENCE
2-3	DETAILS
4	PLAN

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 3/24/2016

County of Allegheny
 Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EROSION & SEDIMENT
POLLUTION CONTROL PLAN
 PINE CREEK BRIDGE NO. II
 P111-0211

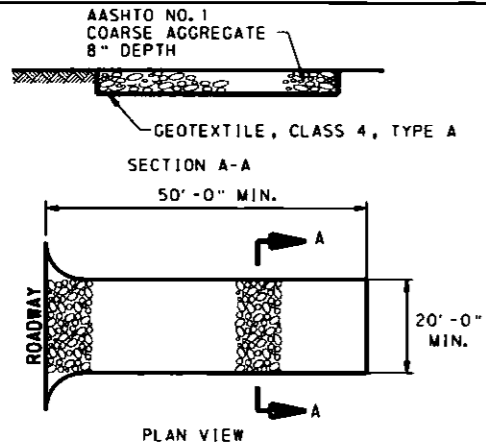
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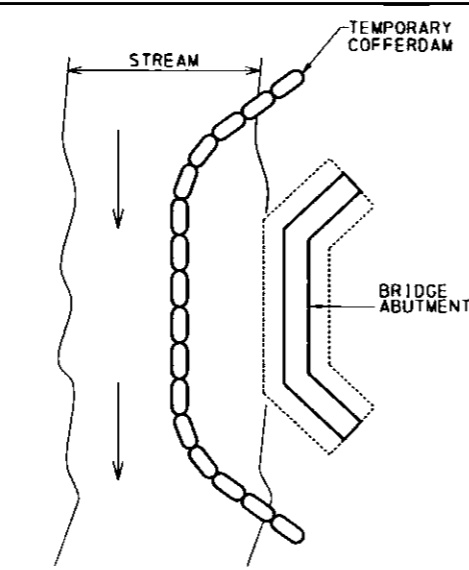
PREPARED BY:
BUCHART HORN, INC.
 2200 LIBERTY AVE. SUITE 300
 PITTSBURGH, PA 15222
NOREEN L. KAROLSKI, P.E.



PH: 412-261-5059



NOTES:
ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. WASHING OF THE ROADWAY WITH WATER IS NOT PERMITTED. THE ROCK CONSTRUCTION ENTRANCE WILL BE PLACED IN LOCATIONS DETERMINED BY THE CONTRACTOR.



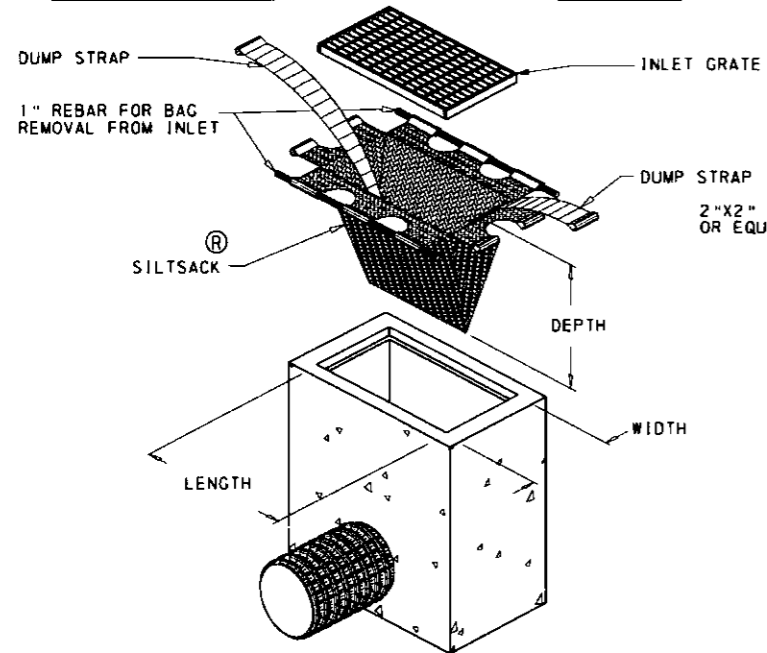
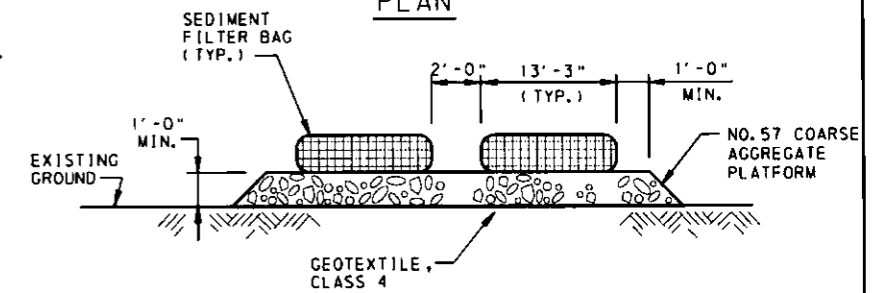
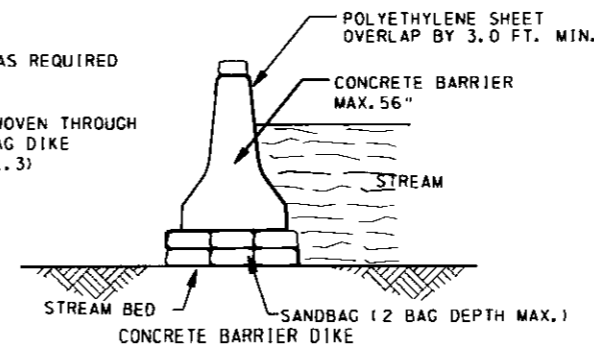
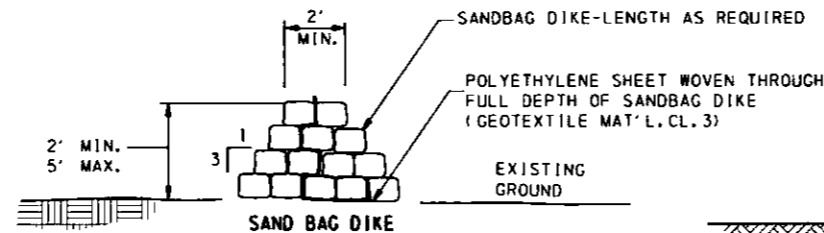
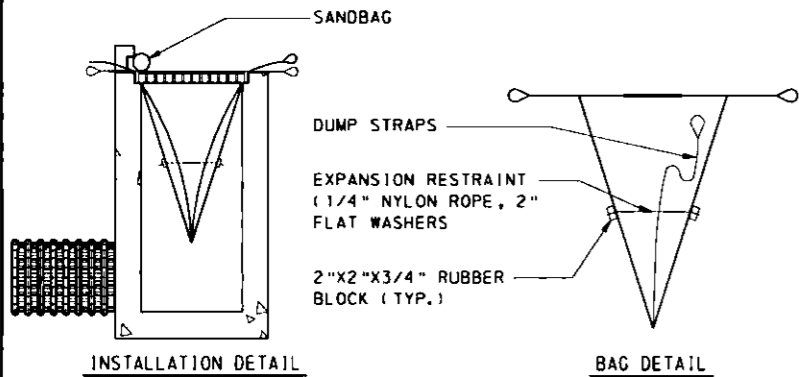
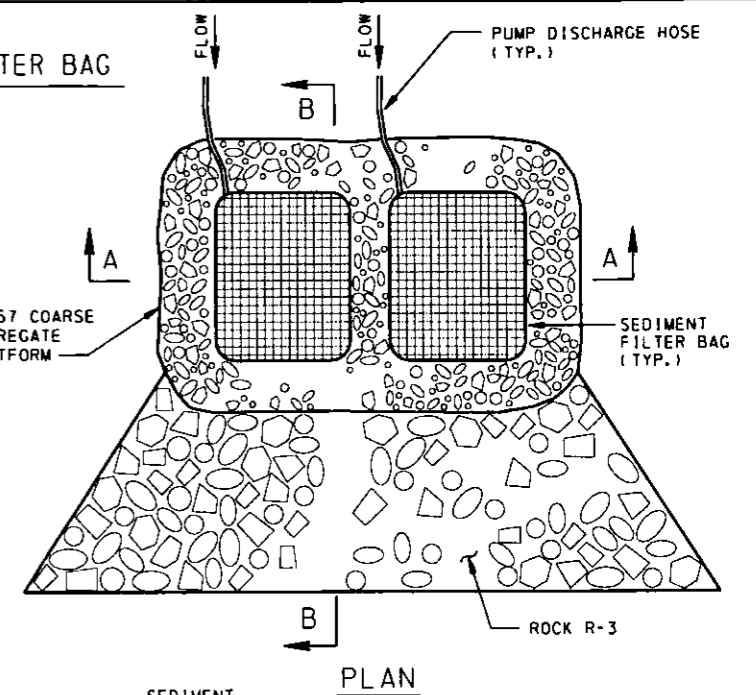
IN-STREAM COFFERDAM DIVERSION DETAIL

NOTES

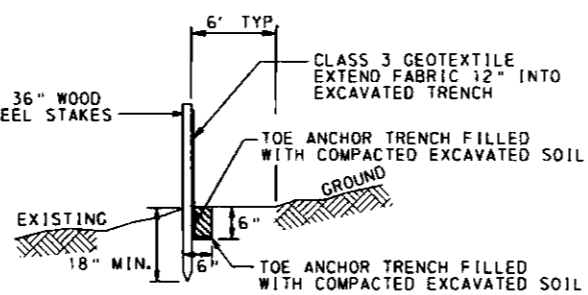
1. PLACE PUMPED WATER FILTER BAGS AT LOCATIONS AS DETERMINED BY THE CONTRACTOR. FILTER BAGS MAY BE USED ON LOW VOLUME DEWATERING OPERATIONS NOT TO EXCEED 3785 LITERS (1000 GALLONS) PER MINUTE.
2. CLEAR SITE BUT DO NOT GRUB.
3. INSPECT AREA TO DETERMINE PATH DISCHARGE WATER WILL TAKE. STABILIZE ANY POTENTIALLY ERODABLE AREAS (STEEP SLOPES).
4. CONSTRUCT COARSE AGGREGATE PLATFORM SURFACE LEVEL. PLACE SEDIMENT FILTER BAG ON STABILIZED AREA.
5. IF THE EXISTING AREA IS STABILIZED, STRAW MAY BE USED INSTEAD OF #57 COARSE AGGREGATE. PLACE BAG OVER STRAW DISTRIBUTED AT THE RATE OF 1 BALE PER 3m (30 SQ. FT.).
6. USE PUMP WITH A RATING IN GALLONS PER MINUTE NOT TO EXCEED 50% OF THE MAXIMUM FLOW RATE LISTED ON THE BAG LABEL. DOUBLE CLAMP THE PUMP DISCHARGE HOSE FIRMLY TO THE BAG.
7. MONITOR AND EVALUATE THE ENTIRE PUMPING OPERATION TO ASSURE THAT THE BAG CONTINUES TO FUNCTION PROPERLY. REPLACE THE BAG WHEN THE CONTAINED SILT REDUCES THE BAGS FLOW TO APPROXIMATELY 50% OF THE RATE OF INITIAL DISCHARGE, OR WHEN DIRECTED BY INSPECTOR-IN-CHARGE. DISPOSE OF SEDIMENT IN A MANNER SATISFACTORY TO THE ENGINEER. RESTORE THE AREA AS SPECIFIED IN SECTION 105.14. THE PUMPED WATER FILTER BAG WILL BE DISPOSED OF AT AN APPROVED DISPOSAL SITE.

PUMPED WATER FILTER BAG

NO SCALE



NOTE: REPLACE OR REMOVE AND CLEAN SEDIMENT SACK WHEN CONTAINED SILT REDUCES FLOW TO APPROXIMATELY 50% OF RATE OF INITIAL SACK CAPACITY. LOW FLOW VARIETY WILL BE USED.



SILT BARRIER FENCE - 18" HEIGHT

NO SCALE
ITEM NO. 4865-0001



DETAIL - JOINING 2 FENCE SECTIONS

NO SCALE

SILT BARRIER FABRIC FENCE GEOTEXTILE SELECTION

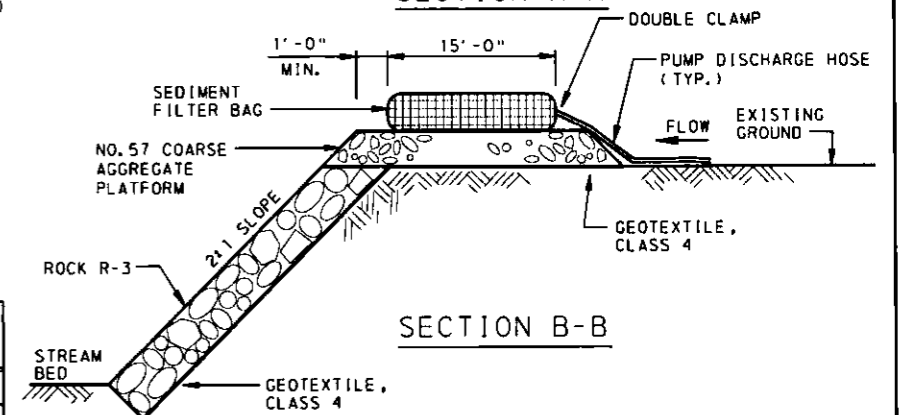
TYPE OF CLASS 3 GEOTEXTILE MATERIAL	NOMINAL FABRIC HEIGHT	MAXIMUM POST SPACING WITHOUT MESH SUPPORT	MAXIMUM POST SPACING WITH MESH SUPPORT
3A	18"	8'-0"	N/A
3A	30"	N/A	8'-0"
3B	18"	4'-0"	N/A
3B	30"	N/A	4'-0"

N/A - NOT APPLICABLE
NOTE:

INSTALL FENCE AT LEVEL GRADE. EXTEND BOTH ENDS OF FENCE 8 FEET UPSLOPE AT 45 DEGREES TO MAIN FENCE ALIGNMENT.

SEDIMENT TO BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE.

ANY SECTION OF FENCE UNDERMINED OR TOPPED MUST BE REPLACED WITHIN 24 HOURS WITH A ROCK FILTER OUTLET, COST INCIDENTAL TO SILT BARRIER FENCE, 18" HEIGHT.



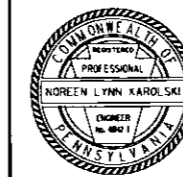
County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EROSION & SEDIMENT
POLLUTION CONTROL PLAN

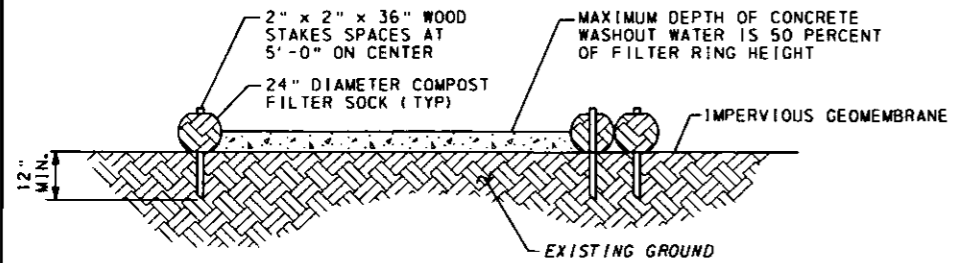
PINE CREEK BRIDGE NO. II

PI11-0211

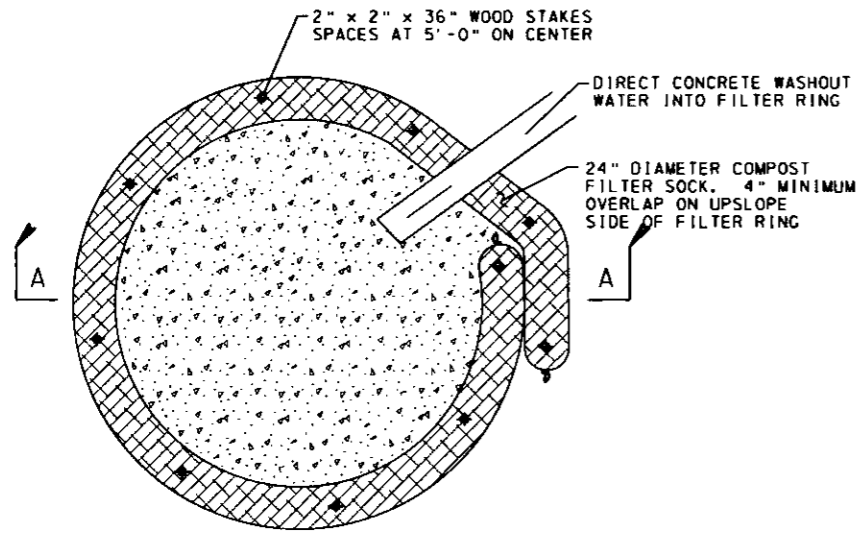
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3/24/2016



SECTION A-A



PLAN

CONCRETE WASHOUT FACILITY

CONCRETE WASHOUT FACILITY NOTES:

1. CONCRETE WASHOUT FACILITY SHALL NOT BE PLACED WITHIN 50 FEET OF STORM DRAINS, OPEN DITCHES OR SURFACE WATERS.
2. INSTALL CONCRETE WASHOUT FACILITIES IN A CONVENIENT LOCATION FOR THE CONCRETE TRUCKS; PREFERABLY NEAR THE PLACE WHERE THE CONCRETE IS BEING POURED, BUT FAR ENOUGH FROM OTHER VEHICULAR TRAFFIC TO MINIMIZE THE POTENTIAL FOR ACCIDENTAL DAMAGE OR SPILLS.
3. INSTALL ON FLAT GRADES FOR OPTIMUM PERFORMANCE. SLOPES SHALL NOT EXCEED 2 PERCENT.
4. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE CONCRETE WASHOUT FACILITY PRIOR TO INSTALLING THE COMPOST FILTER SOCKS.
5. COMPOST FILTER SOCKS SHALL BE STAKED IN THE MANNER RECOMMENDED BY THE MANUFACTURER AROUND PERIMETER OF THE GEOMEMBRANE SO AS TO FORM A RING WITH THE ENDS OF THE SOCK LOCATED AT THE UPSLOPE CORNER.
6. CARE SHALL BE TAKEN TO ENSURE CONTINUOUS CONTACT OF THE COMPOST FILTER SOCK WITH THE GEOMEMBRANE AT ALL LOCATIONS.
7. 18" DIAMETER COMPOST FILTER SOCK MAY BE STAKED ONTO DOUBLE 24" DIAMETER COMPOST FILTER SOCKS IN A PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
8. IN LIEU OF COMPOST FILTER SOCK CONCRETE WASHOUT FACILITIES, PREFABRICATED WASHOUT CONTAINERS MAY BE USED. THE CONTAINERS SHALL BE AS INTENDED BY THE MANUFACTURER FOR USE AS CONCRETE WASHOUT BMPS. CONTAINERS SHALL BE WATERTIGHT AND APPROPRIATELY SIZED. ACCUMULATED MATERIALS MUST BE PROPERLY DISPOSED OF OR RECYCLED WHEN THE SPECIFIED CLEANOUT LEVEL HAS BEEN REACHED.

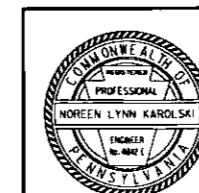
CONCRETE WASHOUT FACILITY MAINTENANCE:

1. ALL CONCRETE WASHOUT FACILITIES SHALL BE INSPECTED DAILY. DAMAGED OR LEAKING CONCRETE WASHOUT FACILITIES SHALL BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY.
2. ACCUMULATED MATERIALS SHALL BE REMOVED WHEN THEY REACH 50 PERCENT CAPACITY FOR COMPOST FILTER SOCK WASHOUT FACILITIES AND 75 PERCENT CAPACITY FOR PREFABRICATED WASHOUT CONTAINERS UNLESS OTHERWISE RECOMMENDED BY THE PREFABRICATED WASHOUT CONTAINER MANUFACTURER.
3. PLASTIC FILTER LINERS SHALL BE REPLACED WITH EACH CLEANING OF THE CONCRETE WASHOUT FACILITY.

SOIL STABILIZATION TABLE

SEED FORMULA	LIME **	COMMERCIAL FERTILIZER	SEED MIX (% BY WEIGHT) & APPLICATION RATE	MULCH TYPE & APPLICATION RATE
FORMULA E *	N/A	N/A	100% ANNUAL RYEGRASS SOW 10# PER 1000 S.Y. MARCH 15 TO OCTOBER 15	HAY - 1200 LBS./1000 S.Y.
FORMULA D	800 LBS. PER 1000 S.Y.	10-20-20 # 140 LBS. PER 1000 S.Y.	60% KENTUCKY 31 TALL FESCUE (30# PER 1000 SY) 30% CREEPING RED FESCUE (15# PER 1000 SY) 10% ANNUAL RYEGRASS (5# PER 1000 SY) SOW 50# PER 1000 S.Y. MARCH 15 THRU JUNE 1 AUGUST 1 TO OCTOBER 15	HAY - 1200 LBS./1000 S.Y.

* TEMPORARY SEEDING ONLY.
** UNLESS A LESSER RATE IS INDICATED.



REVISIONS

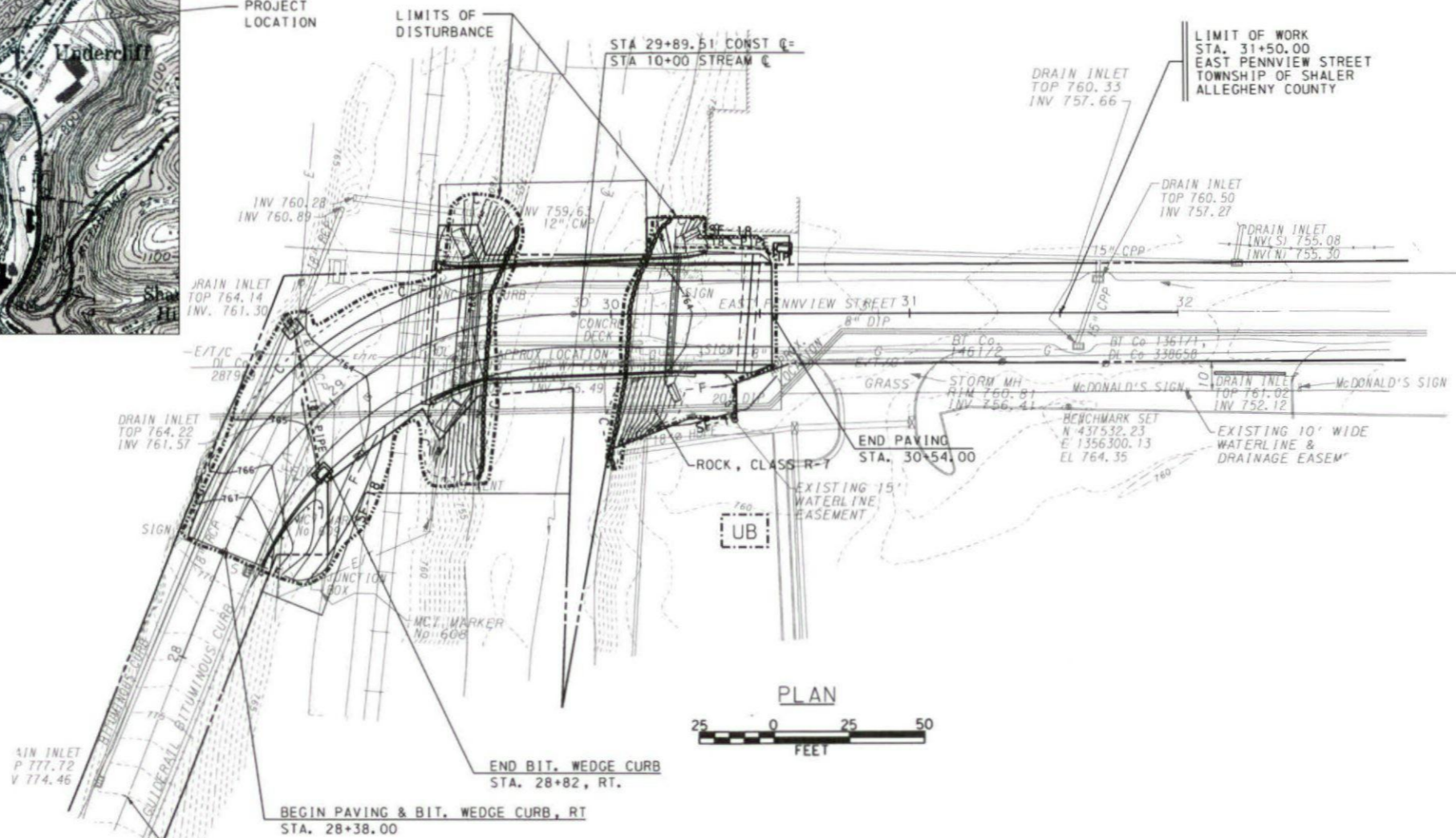
County of Allegheny
Pittsburgh, Pennsylvania
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CONSTRUCTION DRAWING
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LOCATION MAP



PLAN



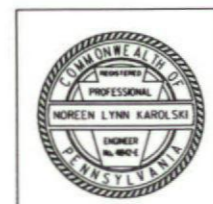
HORIZONTAL CURVE DATA
EAST PENNVIEW STREET

P. I. STA. 29+23.00
 $\Delta=68^{\circ}24'01''$ RT.
 $D=45^{\circ}50'12''$
 $T=84.95'$
 $L=149.26'$
 $R=125.00'$
 $E=26.13'$
 PC STA. =28+38.05
 PT STA. =29+87.28

LEGEND

- SB/18" SILT BARRIER FENCE 18"
- 760--- EXISTING CONTOUR
- 765— PROPOSED CONTOUR
- [UB] URBAN LAND SOILS TYPE
- F- CONSTRUCTION SLOPE LIMIT
- LIMIT OF DISTURBANCE
- [IP] INLET PROTECTION
- [C] COFFERDAM

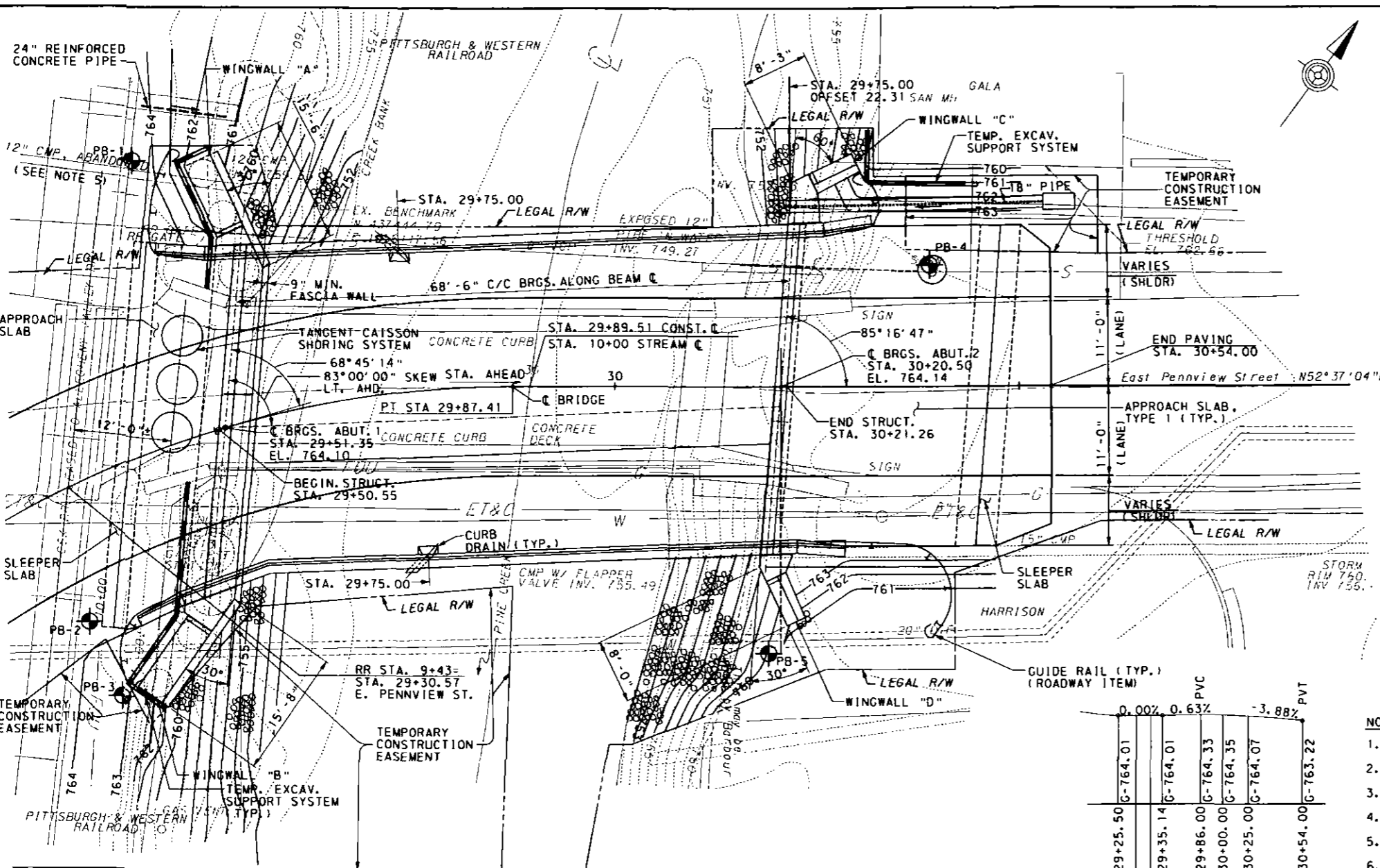
LIMIT OF WORK
 STA. 27+50.00
 EAST PENNVIEW STREET
 TOWNSHIP OF SHALER
 ALLEGHENY COUNTY



County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 EROSION & SEDIMENT
 POLLUTION CONTROL PLAN
 PINE CREEK BRIDGE NO. II
 PI11-0211

DES. NLK	DRW. JRA	CHK. JAS	26048
DATE 7/10	SCALE AS NOTED	SHEET 4 OF 4	



STRUCTURE TEST BORINGS (DRILLED LOCATIONS)				
BORING NO.	STATION	OFFSET FROM CONSTR. C.	SURFACE ELEVATION	DEPTH
PB-1	29+50.00	24' LT.	763.8'	44.6'
PB-2	29+25.00	16' RT.	763.2'	44.5'
PB-3	29+16.00	26' RT.	762.7'	44.0'
PB-4	30+39.00	15' LT.	763.2'	49.7'
PB-5	30+22.00	33' RT.	758.2'	49.5'

NOTE: OFFSET IS MEASURED PERPENDICULAR TO CONSTR. C., LOOKING AHEAD STATIONS.

EXISTING STRUCTURE INFORMATION:

- | | |
|-----------------------------|------------------------------------|
| 1. DATE BUILT: | 1902 |
| 2. TYPE OF SUPERSTRUCTURE: | STEEL THROUGH GIRDER |
| 3. TYPE OF SUBSTRUCTURE: | CUT STONE ABUTMENTS |
| 4. TYPE OF FOUNDATION: | SHALLOW, MASSIVE FOUNDATION |
| 5. BOTTOM OF FOOTING ELEV.: | 746.8 (NEAR ABUT.) |
| | 745.7 (FAR ABUT.) |
| 6. STREAM BED ELEV.: | 751.6 (AVE. AT BRIDGE) |
| 7. WATERWAY OPENING: | 550 SF EXISTING
566 SF PROPOSED |

VERTICAL CURVE DATA

PVI STA = 29+35.14	PVI STA = 30+20.00
ELEV = 764.01	PVI EL = 764.54
NO CURVE	V.C. = 68.00'
	M.O. = -0.38'
	S.S.D. = 273'

**HORIZONTAL CURVE DATA
EAST PENNVIEW STREET**

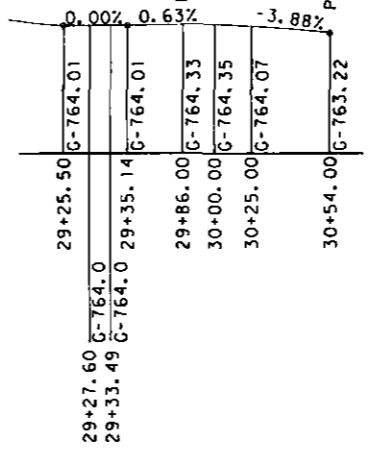
P.I. STA. 29+23.11
 $\Delta = 68^{\circ}26'08''$ RT.
 $D = 45^{\circ}50'12''$
 $T = 85.01'$
 $L = 149.30'$
 $R = 125.00'$
 $E = 26.17'$
 PC STA. = 28+38.10
 PT STA. = 29+87.41

HYDRAULIC DATA

DRAINAGE AREA = 55.15 sq. mi.
 DESIGN FLOOD: MAGNITUDE = 4,263 cfs
 FREQUENCY = 10 YEAR
 100 YEAR FLOOD: MAGNITUDE = 8,957 cfs

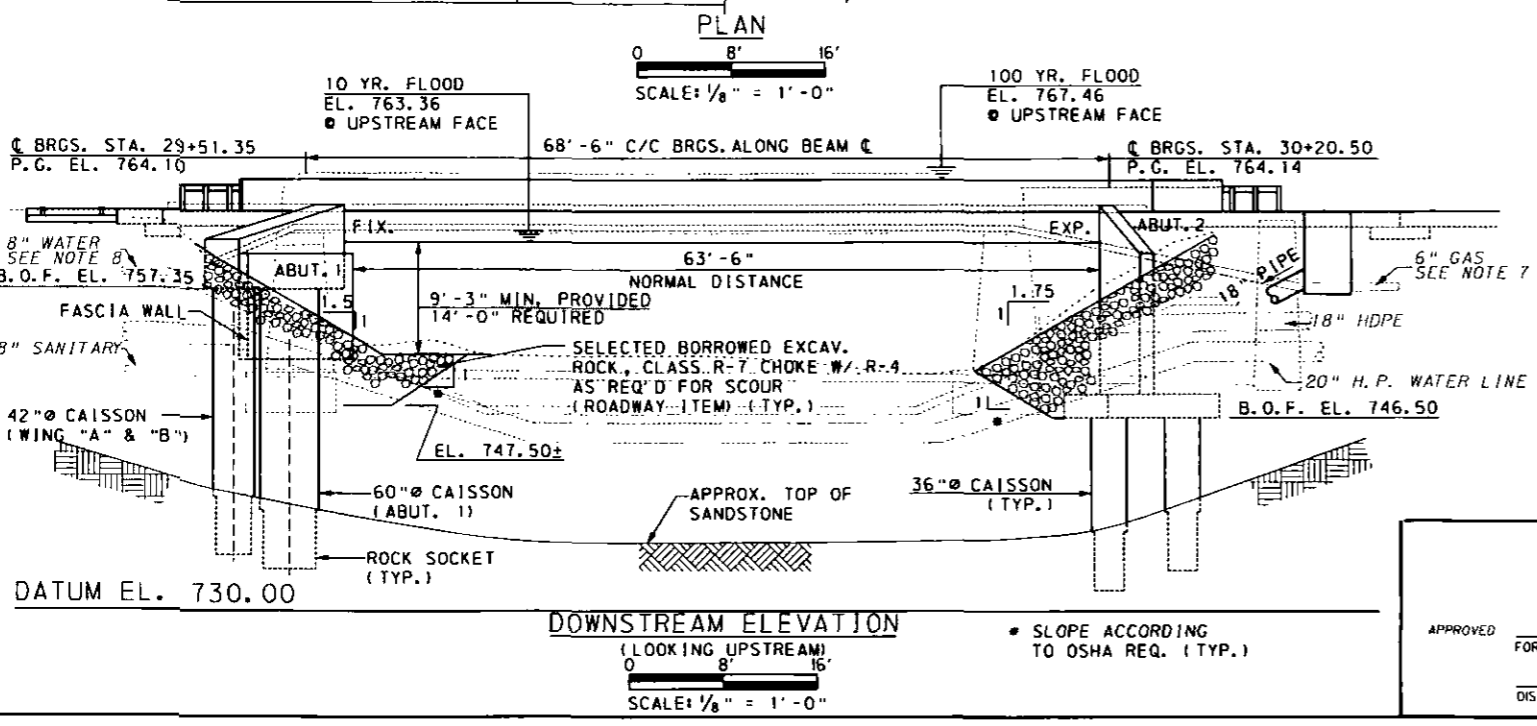
NOTES:

- FOR GENERAL NOTES, SEE SHEET 2.
- FOR TYPICAL SECTION, SEE SHEET 3.
- FOR BRIDGE RATINGS, SEE SHEET 42.
- COORDINATE GRADING WITH ROADWAY PLAN.
- ABANDONED 12" CMP, VERIFY IN THE FIELD.
- DEWATER ALL EXCAVATIONS PRIOR TO THE REPLACEMENT OF CONCRETE.
- THE 6" EXISTING STRUCTURE MOUNTED GAS LINE WILL BE CUT AND CAPPED AT EACH END OF THE PROPOSED STRUCTURE LIMITS BY THE UTILITY PROVIDER BEFORE BRIDGE WORK BEGINS. THE ABANDONED REMAINING LINE ON THE BRIDGE WILL BE REMOVED AS PART OF THE EXISTING STRUCTURE DEMOLITION.
- THE EXISTING 8" WATER LINE WILL BE CUT AND TAPPED INTO THE 20" HIGH PRESSURE LINE ON EACH SIDE OF THE PROPOSED STRUCTURE LIMITS BEFORE BRIDGE WORK BEGINS, THE EXISTING LINE WILL BE ABANDONED IN PLACE.



VERTICAL PROFILE DATA

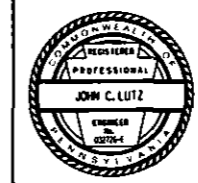
- N.T.S.
- LEGEND:**
- EXISTING CONTOURS
 - PROPOSED CONTOURS
 - CORE BORING LOCATIONS
 - DIRECTION OF TRAFFIC
 - B.O.F. BOTTOM OF FOOTING
 - SELECTED BORROWED EXCAVATION ROCK, CLASS R-7 CHOKED WITH R-4



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION
 BPAA NO. 02-3008

APPROVED _____
 FOR STRUCTURAL ADEQUACY ONLY

DISTRICT BRIDGE ENGINEER



BMS NO. 02 7118 0000 2611

County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 EAST PENNVIEW STREET OVER PINE CREEK
 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
GENERAL PLAN & ELEVATION
 PINE CREEK BRIDGE NO II
 STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 1 OF 46	

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 3/24/2016

GENERAL NOTES

DESIGN SPECIFICATIONS:

- AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 2010, AND AS SUPPLEMENTED BY DESIGN MANUAL, PART 4, MAY 2012.
- LIVE LOAD DISTRIBUTION TO BEAMS IS BASED UPON DM-4 DISTRIBUTION FACTOR METHOD.
- DESIGN IS IN ACCORDANCE WITH THE LRFD METHOD.

DESIGN LIVE LOADS:

- PHL-93 OR P-82 (204 kip PERMIT LOAD)
- FATIGUE DESIGN IS BASED ON THE FOLLOWING:
PRESTRESSED CONCRETE: ADTT 130 (2035)
(ONE-DIRECTIONAL)
- MAXIMUM ALLOWABLE TENSILE STRESS IN PRECOMPRESSED TENSILE ZONE:
= $0.0948 \sqrt{f'_c}$

DEAD LOADS:

- INCLUDES A SURFACE AREA DENSITY OF 30 PSF FOR FUTURE WEARING SURFACE ON THE DECK SLAB.

GENERAL:

- PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH SPECIFICATIONS, PUBLICATION 408/2011, AASHTO/AWS D1.5M/D1.5:2008 BRIDGE WELDING CODE, AND CONTRACT SPECIAL PROVISIONS. USE AASHTO/AWS D1.1/D1.1M:2010 FOR WELDING NOT COVERED IN AASHTO/AWS D1.5M/D1.5:2008.
- STATIONS AND ELEVATIONS ARE GIVEN IN FEET UNLESS OTHERWISE NOTED.
- PROVIDE 2" CONCRETE COVER ON REINFORCEMENT BARS, EXCEPT AS NOTED.
- USE CLASS AAAP CEMENT CONCRETE IN: DECK SLAB
- USE CLASS AA CEMENT CONCRETE IN: BARRIERS
CHEEKWALLS
APPROACH SLAB
SLEEPER SLAB
BEAM SEAT
WINGWALL ABOVE BEAM SEAT CONSTRUCTION JOINT
- USE CLASS A CEMENT CONCRETE IN: ABUTMENTS BELOW BEAM SEAT
WINGWALLS
FOOTINGS
DRILLED CAISSONS
FASCIA WALL
- USE TYPE II CEMENT FOR ALL SUBSTRUCTURES, INCLUDING CAISSONS.
- USE CLASS C CEMENT CONCRETE BELOW THE BOTTOM OF FOOTINGS WHEN SPECIFIED.
- A HIGHER CLASS CONCRETE MAY BE SUBSTITUTED FOR A LOWER CLASS CONCRETE AT NO ADDITIONAL COST TO THE DEPARTMENT.
- PROVIDE GRADE 60 REINFORCING STEEL BARS THAT MEET THE REQUIREMENTS OF ASTM A 615/A 615M, A 996/A 996M, OR A 706/A 706M. DO NOT WELD GRADE 60 REINFORCING STEEL BARS UNLESS SPECIFIED. GRADE 40 REINFORCING STEEL BARS, MAY BE SUBSTITUTED WITH A PROPORTIONAL INCREASE IN CROSS-SECTIONAL AREA, IF APPROVED BY THE CHIEF BRIDGE ENGINEER. DO NOT USE RAIL STEEL A 996/A 996M REINFORCEMENT BARS IN BRIDGE ABUTMENTS, SHEAR BLOCKS, BEAMS, FOOTINGS, PILES, BARRIERS OR WHERE BENDING OR WELDING OF THE REINFORCEMENT BARS ARE INDICATED.
- ALL REINFORCEMENT REBARS ARE TO BE EPOXY-COATED EXCEPT AS NOTED.
- GALVANIZED REINFORCING STEEL BARS MAY BE SUBSTITUTED FOR EPOXY-COATED REINFORCING STEEL BARS AT NO ADDITIONAL COST TO THE DEPARTMENT.
- RAKE-FINISH ALL HORIZONTAL CONSTRUCTION JOINTS, EXCEPT AS INDICATED.
- SITE CLASS IS NOT CLASS E.
- VERIFY ALL DIMENSIONS AND GEOMETRY OF THE EXISTING STRUCTURE IN THE FIELD AS NECESSARY FOR PROPER FIT OF THE PROPOSED CONSTRUCTION.
- CONSTRUCT DECK SLAB TRANSVERSE CONSTRUCTION JOINTS PARALLEL TO BRIDGE CENTERLINE OF BEARINGS.
- APPLY PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES TO ALL EXPOSED CONCRETE SURFACES, EXCEPT BEAM SEATS, DOWN TO 2 FEET BELOW FINISHED GRADE, INCIDENTAL TO LUMP SUM STRUCTURE ITEM.
- JACK SUPERSTRUCTURE AT ABUTMENT 2 TO RELIEVE STRESS IN ELASTOMERIC BEARING PAD, AS REQUIRED, IN ACCORDANCE WITH SPECIAL PROVISIONS.
- PLACE CHEEKWALLS AFTER BEAMS HAVE BEEN SET IN POSITION AND TENDONS STRESSED.
- CHAMFER EXPOSED CONCRETE EDGES 1 IN BY 1 IN, EXCEPT AS NOTED.
- ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED.
- DECK SLAB THICKNESS INCLUDES A 1/2" INTEGRAL WEARING SURFACE.
- PREPARE BEARING AREAS AS SPECIFIED IN PUBLICATION 408, SECTION 1001.3(K)9.
- PROVIDE MINIMUM EMBEDMENT AND SPLICE LENGTHS IN ACCORDANCE WITH STANDARD DRAWING BC-736M, UNLESS OTHERWISE INDICATED.

- SUPERSTRUCTURE DIMENSIONS SHOWN ARE FOR A NORMAL TEMPERATURE OF 68° F.
- NOTIFY THE REGIONAL HEADQUARTERS OF THE FISH COMMISSION PRIOR TO CONSTRUCTION AND COOPERATE WITH THE FISH COMMISSION DURING CONSTRUCTION. THE WATERWAY CONSERVATION OFFICER FOR THIS PROJECT IS NAME: MICHAEL WALSH
ADDRESS: 236 LAKE ROAD, SOMERSET, PA. 15501
TELEPHONE: (814) 445-8974

UTILITY NOTES:

- COORDINATE, LOCATE, AND CONDUCT ALL WORK RELATED TO PUBLIC AND PRIVATE UTILITIES IN ACCORDANCE WITH PUB. 408/2011, SECTIONS 105.06 AND 107.12.

APPROACH SLAB NOTES:

- CONSTRUCT BRIDGE APPROACH SLABS AFTER DECK SLAB IS CONSTRUCTED.
- PLACE CONCRETE IN ONE CONTINUOUS OPERATION, UNLESS OTHERWISE INDICATED OR DIRECTED.
- TRANSVERSE CONSTRUCTION JOINTS ARE NOT PERMITTED IN THE CONCRETE APPROACH SLABS OR SLEEPER SLABS, UNLESS OTHERWISE DIRECTED.

DRILLED CAISSON NOTES:

- CONSTRUCT DRILLED CAISSONS IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
- TEST HOLES ARE REQUIRED AT ALL CAISSON LOCATIONS.
- IT IS ANTICIPATED THAT DEWATERING OF EXCAVATION WILL BE NECESSARY DURING CONSTRUCTION. KEEP STORM WATER RUNOFF OUT OF THE EXCAVATION. ALL CONCRETE AND REINFORCED BACKFILL MUST BE PLACED ON A FOUNDATION SURFACE WITH NO DEBRIS OF LOOSE MATERIAL AND NO SURFACE WATER. EXCAVATIONS SHOULD FOLLOW THE PENNDOT STANDARD DRAWINGS AND OSHA REQUIREMENTS. IF REQUIREMENTS CONFLICT, FOLLOW THE STRICTER REQUIREMENT.
- IF DEVIATIONS FROM THE NOTED FOUNDATION CONDITIONS ARE ENCOUNTERED DURING CONSTRUCTION, IMMEDIATELY BRING TO THE ATTENTION OF THE ALLEGHENY COUNTY ENGINEER.
- DO NOT EXCAVATE SIMULTANEOUSLY FOR ADJACENT CAISSONS IF THE DISTANCE BETWEEN THE CAISSON IS LESS THAN 3 TIMES THE DIAMETER OF THE LARGEST CAISSON. IN SUCH CASES, DRILL ONE HOLE, PLACE CONCRETE AND ALLOW CONCRETE TO CURE FOR 72 HOURS BEFORE DRILLING ADJACENT HOLE.
- BLASTING IS NOT PERMITTED FOR ROCK EXCAVATION.
- USE DRILLING TECHNIQUES AND PROCEDURES THAT WILL NOT JEOPARDIZE THE SAFETY OF THE WORK CREW OR GENERAL PUBLIC. PROVIDE SAFETY AND PROTECTION AT ALL TIMES FOR PUBLIC, COUNTY PERSONNEL AND WORKERS.
- ESTABLISH A PERMIT-REQUIRED, CONFINE SPACE ENTRY PROGRAM IN ACCORDANCE WITH OSHA'S 29 CFR 1910.146 TO RESTRICT ACCESS AND CONTROL ENTRY AT EACH EXCAVATION.
- PROVIDE GAS TESTING EQUIPMENT AND CHECK EACH DRILLED CAISSON FOUNDATION FOR BOTH TOXIC AND EXPLOSIVE GASES IN ACCORDANCE WITH THE ESTABLISHED PERMIT-REQUIRED, CONFINED SPACE ENTRY PROGRAM PRIOR TO PERSONNEL ENTERING. NOTIFY THE PROJECT MANAGER IMMEDIATELY UPON DISCOVERY OF TOXIC AND/OR EXPLOSIVE GASES.
- EXERCISE EXTREME CARE AT EXISTING UTILITIES AND COOPERATE WITH THE NECESSARY AUTHORITIES TO SHUT OFF VALVES, SWITCHES, AND MAKE DISCONNECTIONS AS REQUIRED.
- THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF ALL EMBANKMENTS AND EXCAVATED SLOPES, IF USED. DIVERT ALL SURFACE RUNOFF AWAY FROM EMBANKMENTS IN CONSTRUCTION AND EXCAVATIONS. PERFORM EMBANKMENT CONSTRUCTION AND EXCAVATIONS IN ACCORDANCE WITH PENNDOT PUB. 408, SECTION 206 AND OSHA REQUIREMENTS AS APPROPRIATE.
- DO NOT PLACE REINFORCEMENT BAR CAGE IN THE DRILLED SHAFT UNTIL TEST HOLES ARE APPROVED.

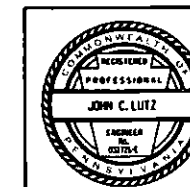
EXISTING STRUCTURE

- DO NOT CONSIDER ANY OF THE DATA ON THE EXISTING STRUCTURE SUPPLIED IN THE ORIGINAL DESIGN DRAWINGS OR MADE AVAILABLE TO YOU BY THE COUNTY OR ITS AUTHORIZED AGENTS AS POSITIVE REPRESENTATIONS OF ANY OF THE CONDITIONS THAT YOU WILL ENCOUNTER IN THE FIELD.
- THE INFORMATION SHOWN ON THE PLANS FOR THE EXISTING BRIDGE IS NOT PART OF THE PLANS, PROPOSAL, OR CONTRACT AND IS NOT TO BE CONSIDERED A BASIS FOR COMPUTATION OF THE UNIT PRICES USED FOR BIDDING PURPOSES. THERE IS NO EXPRESSED OR IMPLIED AGREEMENT THAT THE INFORMATION IS CORRECTLY SHOWN. THE BIDDER IS NOT TO RELY ON THIS INFORMATION, BUT IS TO ASSUME THE POSSIBILITY THAT CONDITIONS AFFECTING THE COST AND/OR QUANTITIES OF WORK TO BE PERFORMED MAY DIFFER FROM THOSE INDICATED.
- THE EXISTING BRIDGE STRUCTURAL MEMBERS CONTAIN LEAD PAINT AND OTHER TOXIC MATERIALS BASED ON THE AGE OF THE STRUCTURE.

INDEX OF DRAWINGS

SHEET NO.	TITLE
1	GENERAL PLAN & ELEVATION
2	GENERAL NOTES & INDEX OF DRAWINGS
3	TYPICAL SECTION & QUANTITIES
4	STAKE-OUT PLAN
5	ABUTMENT 1 PLAN AND ELEVATION
6	ABUTMENT 1 CAISSON CAP PLAN AND ELEVATION
7	ABUTMENT 1 SECTIONS AND DETAILS
8	ABUTMENT 1 CAISSON PLAN
9	ABUTMENT 1 CAISSON DETAILS
10	ABUTMENT 1 TANGENT CAISSON DETAILS
11	ABUTMENT 1 BEAM SEAT & FASCIA WALL PLAN & ELEVATION
12	ABUTMENT 1 FASCIA WALL SECTIONS & DETAILS
13	ABUTMENT 1 BEAM SEAT DETAILS AND ELEVATION TABLE
14	ABUTMENT 1 WINGWALLS "A" AND "B"
15	ABUTMENT 1 WINGWALLS "A" AND "B" CAISSON DETAILS
16	ABUTMENT 1 REBAR SCHEDULE
17	ABUTMENT 2 PLAN AND ELEVATION
18	ABUTMENT 2 SECTIONS AND DETAILS
19	ABUTMENT 2 FOOTING PLAN 1
20	ABUTMENT 2 FOOTING PLAN 2
21	ABUTMENT 2 FOOTING PLAN 3
22	ABUTMENT 2 CAISSON PLAN
23	ABUTMENT 2 CAISSON DETAILS
24	ABUTMENT 2 BEAM SEAT PLAN AND ELEVATION
25	ABUTMENT 2 BEAM SEAT DETAILS AND ELEVATION TABLE
26	ABUTMENT 2 WINGWALL "C"
27	ABUTMENT 2 WINGWALL "D"
28	ABUTMENT 2 REBAR SCHEDULE
29	FRAMING PLAN
30	BOX BEAM FABRICATION DETAILS-1
31	BOX BEAM FABRICATION DETAILS-2
32	STRAND TABLES
33	BEARING AND BEAM DAP DETAILS
34	DECK SLAB PLAN
35	DECK SLAB TYPICAL SECTION AND ELEVATION TABLES
36	DECK SLAB PLACEMENT AND BARRIER PLAN
37	BARRIER DETAILS
38	APPROACH SLAB - ABUT 1
39	APPROACH SLAB - ABUT 2
40	APPROACH SLAB DETAILS
41	DECK & APPROACH SLAB REBAR SCHEDULES
42	RATING TABLES
43	MOMENT, SHEAR AND BEAM PROPERTIES
44	STRUCTURE BORINGS - 1
45	STRUCTURE BORINGS - 2
46	STRUCTURE BORINGS - 3

REVISIONS



County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
**GENERAL NOTES &
INDEX OF DRAWINGS**
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL
DATE 12/2015	SCALE	SHEET 2 OF 46

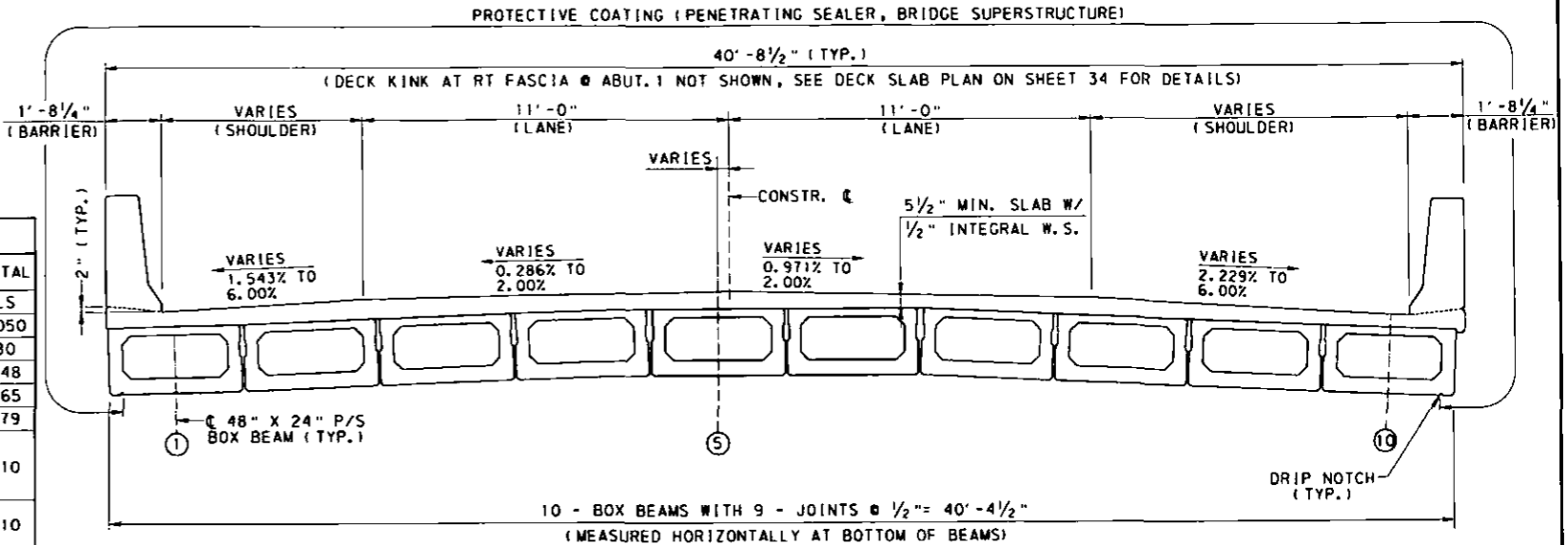
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3/24/2016

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ALTERNATE STRUCTURE ITEMS			
ITEM NO.	ITEM	UNIT	TOTAL
8020-0001	BRIDGE STRUCTURE, AS DESIGNED, BPAA 02-3008	LS	LUMP SUM
8000-0001	PRESTRESSED CONCRETE BRIDGE STRUCTURE	LS	LUMP SUM
8100-0001	STEEL BRIDGE STRUCTURE	LS	LUMP SUM

APPROXIMATE QUANTITIES - BRIDGE STRUCTURE AS DESIGNED									
ITEM NO.	NOTE	ITEM	UNIT	ABUT. 1	ABUT. 2	SUPER.	APPR. SLAB ABUT. 1	APPR. SLAB ABUT. 2	TOTAL
8020-0001	(1)	BRIDGE STRUCTURE, AS DESIGNED, BPAA 02-3008	LS						LS
	(1)	CLASS 3 EXCAVATION	CY	203	847				1050
	(1)	CLASS AAAP CEMENT CONCRETE	CY			80			80
	(1)	CLASS AA CEMENT CONCRETE	CY	10	9	30	36	63	148
	(1)	CLASS A CEMENT CONCRETE	CY	55	110				165
	(1)	SELECTED BORROW EXCAVATION, STRUCTURE BACKFILL	CY	95	284				379
	(1)(4)	PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALERS, BRIDGE SUPERSTRUCTURE)	SY			410			410
	(1)	TEXTURIZING CONCRETE BRIDGE DECK SURFACES WITH TRANSVERSE SAWED GROOVES	SY			410			410
	(1)	DECK DRAINS	EACH			2			2
	(1)	PRESTRESSED CONCRETE ADJACENT BOX BEAMS, 48"x24"	LF			701			701
	AND								
1002-0053	(5)	REINFORCEMENT BARS, EPOXY COATED	LB	11765	14159	10321	8259	12189	56693
	AND								
1006-0610		TEST HOLES	LF	368	224				592
	AND								
9000-0101		60" DIA. DRILLED CAISSONS, SHAFT SECTION	LF	133					133
	AND								
9000-0102		60" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSONS	LF	133					133
	AND								
9000-0103		54" DIA. DRILLED CAISSONS, ROCK SOCKET	LF	35					35
	AND								
9000-0104		42" DIA. DRILLED CAISSONS, SHAFT SECTION	LF	70					70
	AND								
9000-0105		42" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSONS	LF	70					70
	AND								
9000-0106		36" DIA. DRILLED CAISSONS, ROCK SOCKET	LF	20					20
	AND								
9000-0107		36" DIA. DRILLED CAISSONS, SHAFT SECTION	LF		84				84
	AND								
9000-0108		36" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSONS	LF		84				84
	AND								
9000-0109		30" DIA. DRILLED CAISSONS, ROCK SOCKET	LF		50				50
	AND								
9000-0110		CSL TESTING	EACH	11	10				21
	AND								
9000-0111		HQ CORING	LF	25	25				50
	AND								
9000-0112		TIP TESTING	EACH	11	10				21
	AND								
9006-0113		TECHNIQUE SHAFT	LS		LS				LS

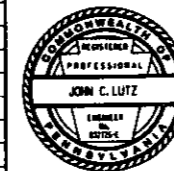


TYPICAL SECTION
N.T.S.

- NOTES:
- FOR GENERAL PLAN & ELEVATION, SEE SHEET 1.
 - FOR GENERAL NOTES, SEE SHEET 2.

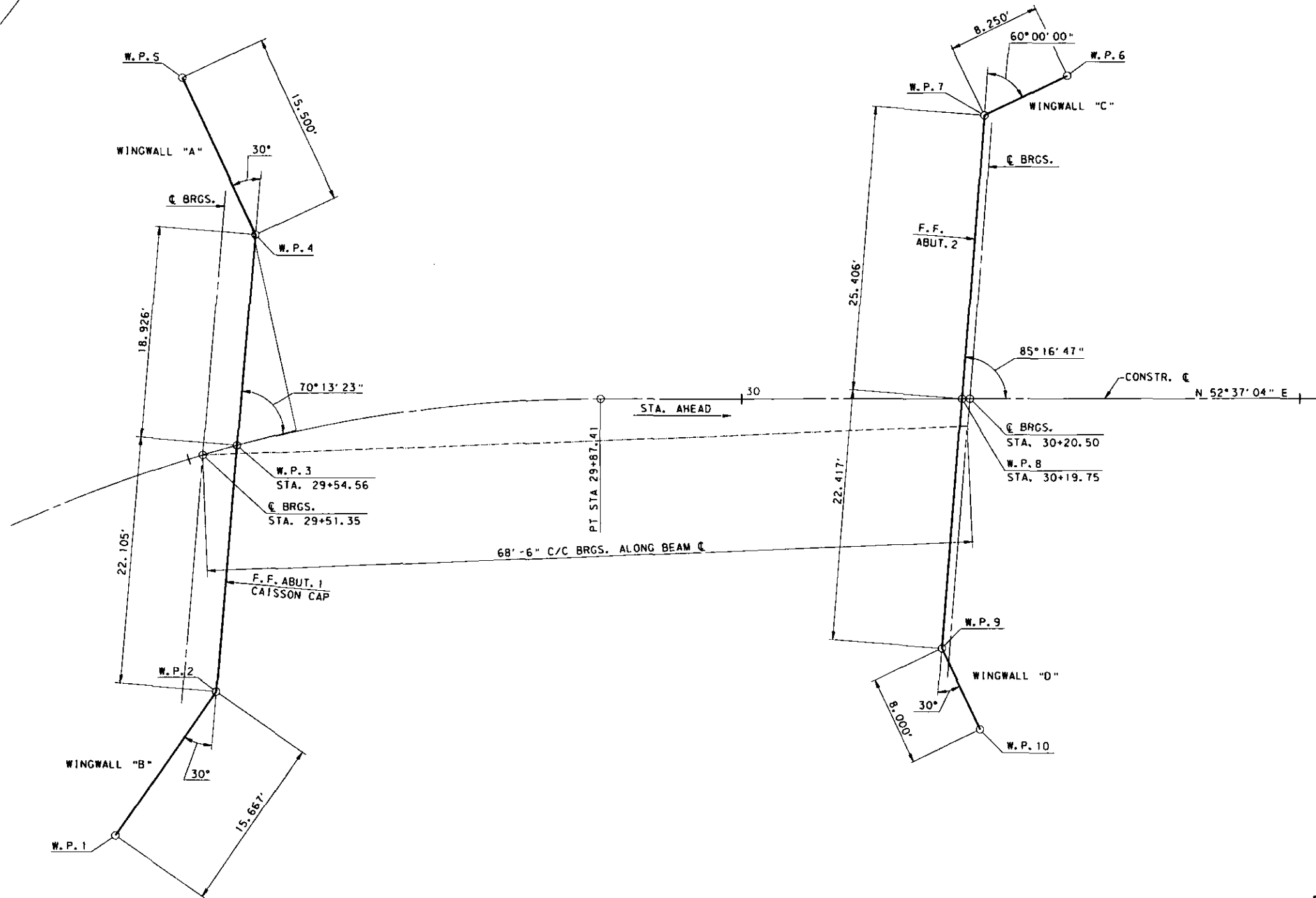
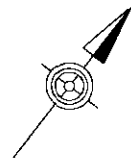
- NOTES:
- ITEMS AND QUANTITIES IN BRIDGE STRUCTURE LUMP SUM ITEM 8020-0001 - GIVEN FOR INFORMATION ONLY.
 - INCLUDES CLASS AA CONCRETE IN CHEEKWALLS, BEAM SEAT.
 - INCLUDES CLASS AA CONCRETE IN APPROACH SLAB AND SLEEPER SLAB.
 - APPLY IN ACCORDANCE WITH PUBLICATION 408, SECTION 1019.3(c)2.
 - FOR AS DESIGNED STRUCTURE, INCLUDED IN BRIDGE BID ITEMS. FOR ALTERNATE DESIGNS, INCLUDED IN BRIDGE STRUCTURE LUMP SUM BID ITEM.

SUPPLEMENTAL DRAWINGS		
DESCRIPTION	DWG. NO.	REC'D DATE
ANCHOR SYSTEMS	BC-734M	10-26-10
WALL CONSTRUCTION & EXPANSION JOINT DETAILS	BC-735M	10-26-10
REINFORCEMENT BAR FABRICATION DETAILS	BC-736M	05-18-12
BRIDGE BARRIER TO GUIDE RAIL TRANSITION	BC-739M	05-18-12
BRIDGE DRAINAGE	BC-751M	11-21-14
CONCRETE DECK SLAB DETAILS	BC-752M	11-21-14
BEARINGS	BC-755M	11-26-13
MISCELLANEOUS PRESTRESS DETAILS	BC-775M	11-26-13
TYPICAL WATERPROOFING AND EXPANSION DETAILS	BC-788M	11-21-14
CLASSIFICATION OF EARTHWORK FOR STRUCTURES	RC-11M	6-1-10
BACKFILL AT STRUCTURES	RC-12M	6-1-10
GUIDE RAIL TO BRIDGE BARRIER TRANSITIONS	RC-50M	6-1-10
TYPE 2 STRONG POST GUIDE RAIL	RC-52M	6-1-10



County of Allegheny Pittsburgh, Pennsylvania Department of Public Works		
CONSTRUCTION DRAWING EAST PENNVIEW STREET OVER PINE CREEK 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE TYPICAL SECTION & QUANTITIES PINE CREEK BRIDGE NO II STA 29+87.41 P111-0211		
DES. MRM	DRW. ADC	CHK. JCL
DATE 12/2015	SCALE	SHEET 3 OF 46
26048		

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NUMBER	STATION	OFFSET	COORDINATES	
			NORTHING	EASTING
1	29+29.09	28.93 RT	437399.3132	1356139.3321
2	29+45.60	20.53 RT	437414.9630	1356138.6045
3	29+54.56	0 CL	437433.5725	1356126.6748
4	29+60.16	17.95 LT	437449.5059	1356116.4606
5	29+57.45	33.11 LT	437456.6241	1356102.6918
6	30+29.30	28.84 LT	437505.0491	1356165.6476
7	30+21.84	25.32 LT	437497.7205	1356161.8583
8	30+19.75	0 CL	437476.3319	1356175.5694
9	30+17.90	22.34 RT	437457.4598	1356187.6675
10	30+21.32	29.57 RT	437453.7851	1356194.7740

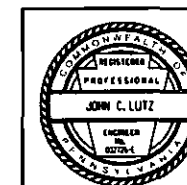
NOTES: 1. OFFSET IS MEASURED PERPENDICULAR TO CONSTR. C., LOOKING AHEAD STATIONS.
 2. FOUR PLACE COORDINATES ARE FOR COMPUTATIONAL PURPOSES ONLY AND DONOT IMPLY A PRECISION BEYOND TWO DECIMAL POINTS.

CHORD DIMENSIONS	
WP2 TO WP9	64.91'
WP3 TO WP8	64.95'
WP4 TO WP7	66.22'
DIAGONAL DIMENSIONS	
WP2 TO WP7	85.96'
WP4 TO WP9	71.65'

NOTES:
 1. FOR GENERAL PLAN & ELEVATION, SEE SHEET 1.
 2. FOR GENERAL NOTES, SEE SHEET 2.
 3. FOR TYPICAL SECTION, SEE SHEET 3.

STAKE-OUT PLAN
 NTS

LEGEND:
 W.P. = WORK POINT
 F.F. = FRONT FACE



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 Pittsburgh, Pennsylvania
 Department of Public Works

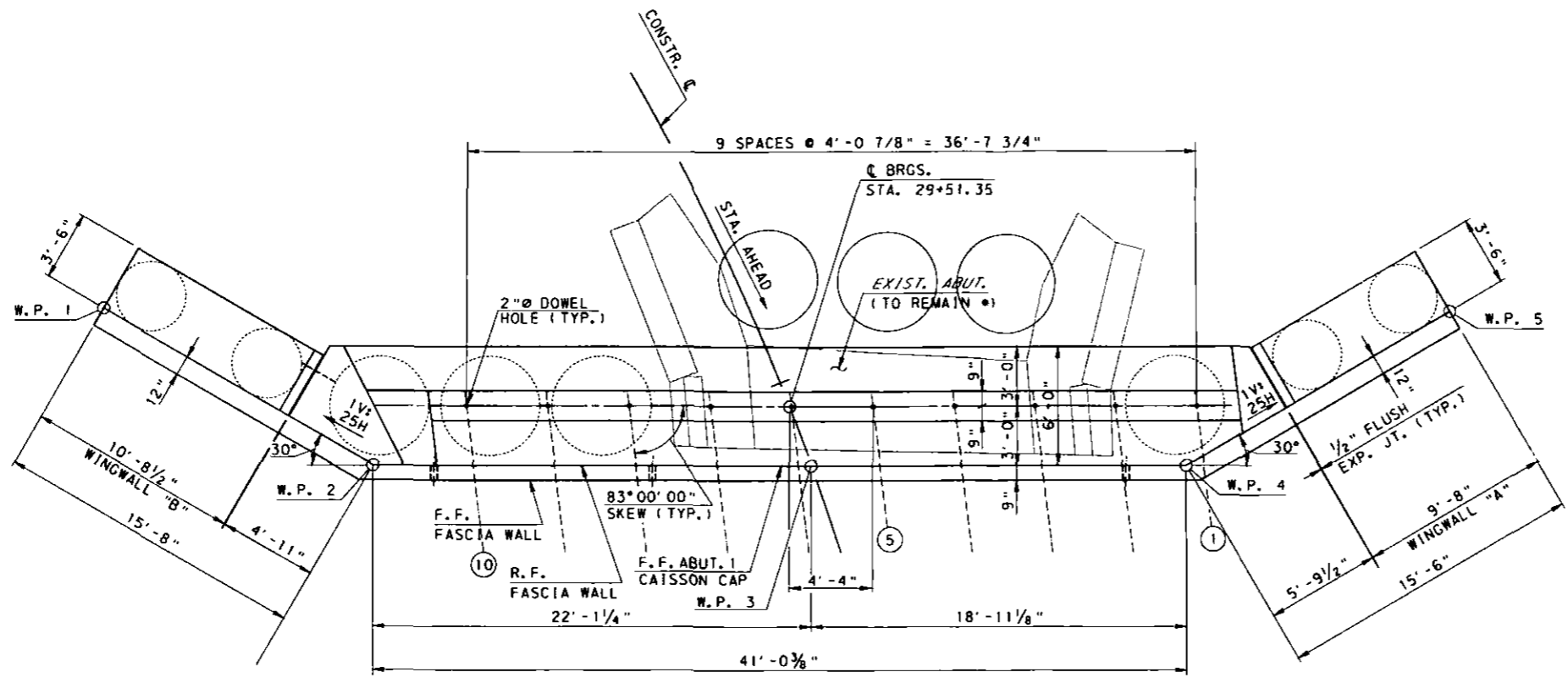
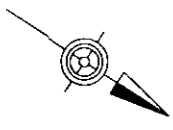
CONSTRUCTION DRAWING
 EAST PENNVIEW STREET OVER PINE CREEK
 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
 STAKE-OUT PLAN
 PINE CREEK BRIDGE NO II
 STA 29+87.41 P111-0211

DES. MRM	DRW. SRC	CHK. JCL
DATE 12/2015	SCALE	SHEET 4 OF 46

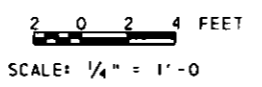
26048

3/24/2016

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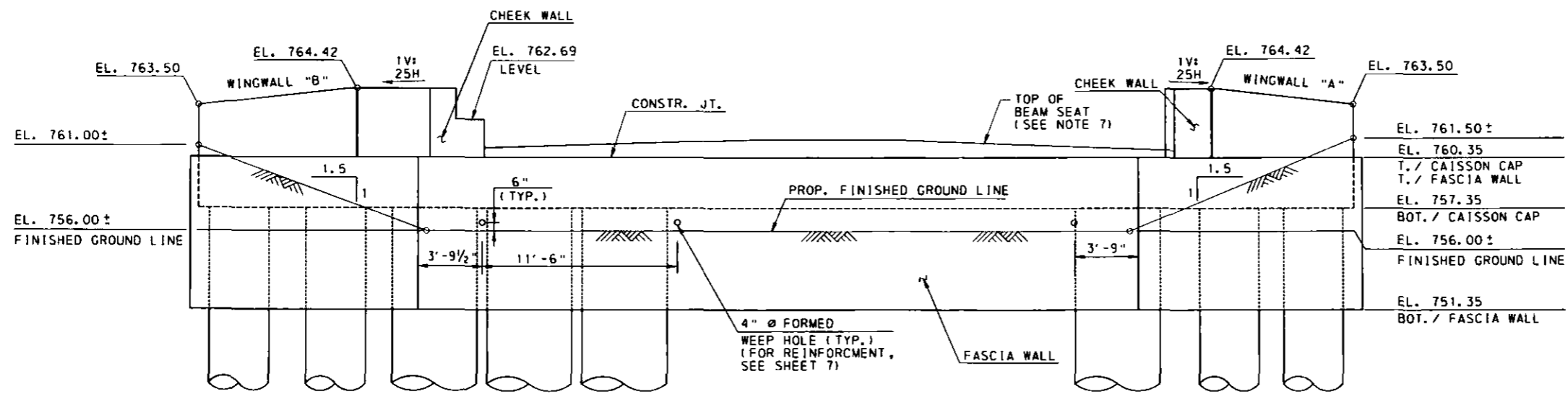


PLAN



NOTE:

- REMOVE THE TOP FOUR (4) COURSES OF EXISTING ABUTMENT MASONRY STONES TO EL. 757.12 +/- TO CLEAR THE PROPOSED CAISSON CAP BOTTOM ELEVATION. FILL THE GAP BETWEEN THE EXISTING ABUTMENT TOP AND PROPOSED CAISSON CAP BOTTOM WITH APPROVED 6" WIDE CONTINUOUS STRIP OF CLOSED CELL NEOPRENE SPONGE (THICKNESS = 1/4" THICKER THAN GAP)



ELEVATION
(LOOKING BACK STATIONS)
SCALE: 1/4" = 1'-0

NOTES:

- FOR GENERAL NOTES, SEE SHEET 2.
- FOR WALL CONSTRUCTION & EXPANSION JOINT DETAILS, SEE BC-735M.
- FOR WATERPROOFING DETAILS, SEE BC-788M.
- FOR CAISSON PLAN, SEE SHEET 8.
- FOR CAISSON CAP REINFORCEMENT AND DETAILS, SEE SHEETS 6 & 7.
- FOR FASCIA WALL REINFORCEMENT AND DETAILS, SEE SHEETS 11 & 12.
- FOR BEAM SEAT REINFORCEMENT AND ELEVATIONS, SEE SHEETS 11 & 13.

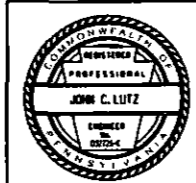
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County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
ABUTMENT 1 PLAN & ELEVATION

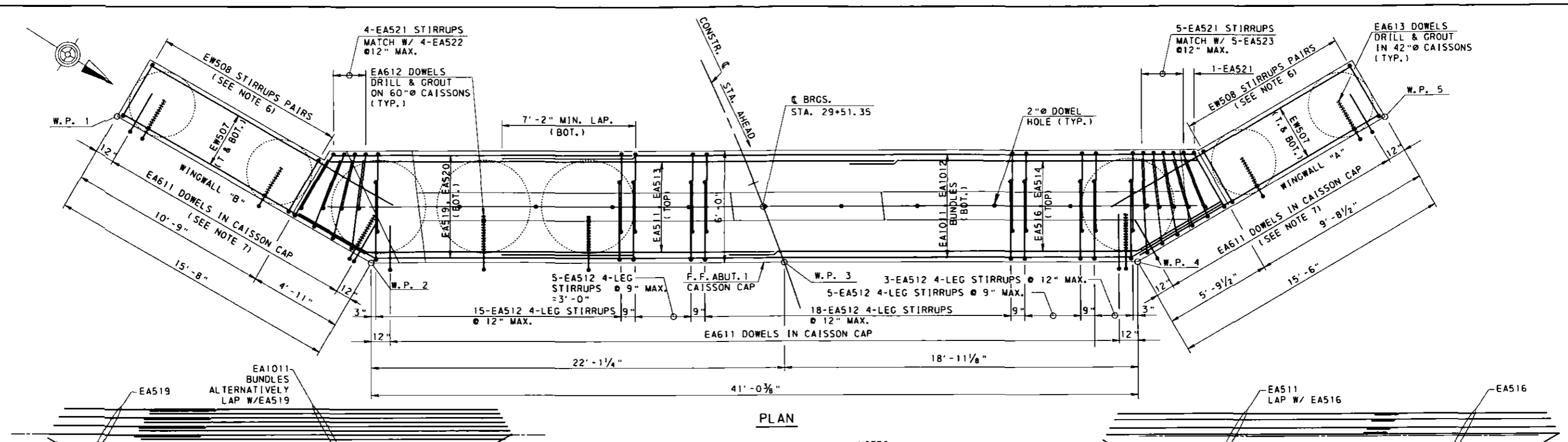
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 5 OF 46	



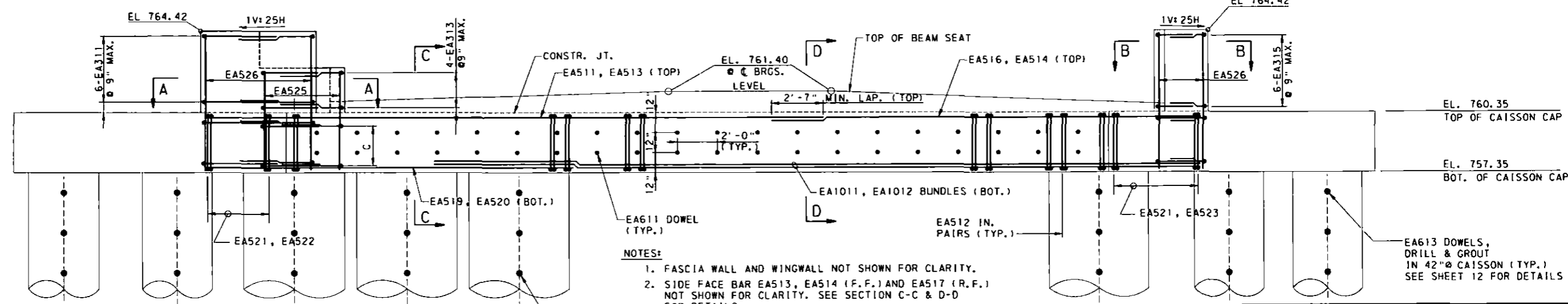
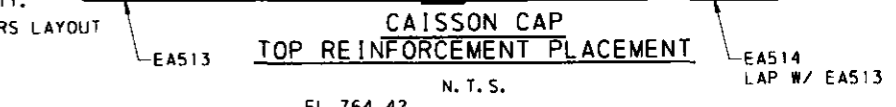
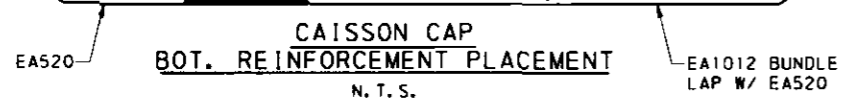
REVISIONS

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PLAN
SCALE: 3/8" = 1'-0"

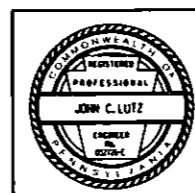
NOTES:
1. FASCIA WALL NOT SHOWN FOR CLARITY.
2. CAISSON CAP TOP AND BOTTOM REBARS LAYOUT AS SHOWN.



ELEVATION
(LOOKING BACK STATIONS)
SCALE: 3/8" = 1'-0"

NOTES:
1. FASCIA WALL AND WINGWALL NOT SHOWN FOR CLARITY.
2. SIDE FACE BAR EA513, EA514 (F.F.) AND EA517 (R.F.) NOT SHOWN FOR CLARITY. SEE SECTION C-C & D-D FOR DETAILS.

- NOTES:**
1. FOR GENERAL NOTES, SEE SHEET 2.
 2. FOR SECTIONS A-A THRU D-D, SEE SHEET 7.
 3. FOR CAISSON PLAN, SEE SHEET 8.
 4. FOR FASCIA WALL REINFORCEMENT AND DETAILS, SEE SHEETS 11 & 12.
 5. FOR BEAM SEAT REINFORCEMENT AND ELEVATIONS, SEE SHEETS 11 & 13.
 6. FOR WINGWALL REINFORCEMENT DETAILS, SEE SHEET 14.
 7. FOR DOWEL DETAILS, SEE SHEET 12.
 8. FOR REINFORCEMENT SCHEDULE, SEE SHEET 16.



REVISIONS	

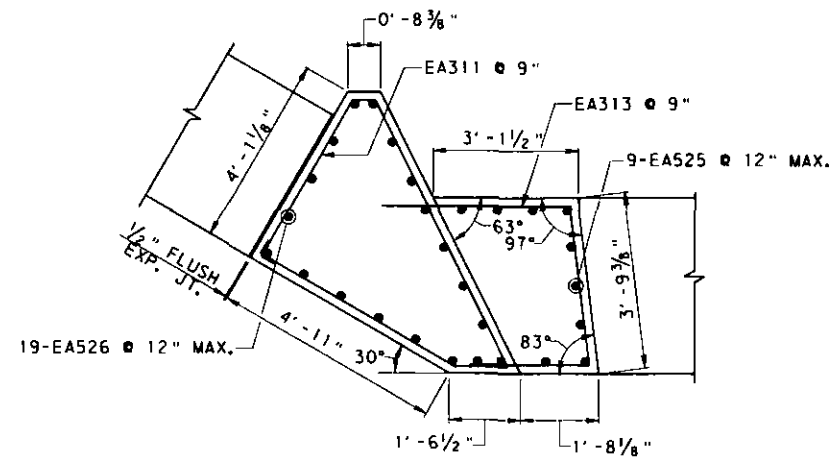
County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
ABUTMENT 1 CAISSON CAP
PLAN AND ELEVATION
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

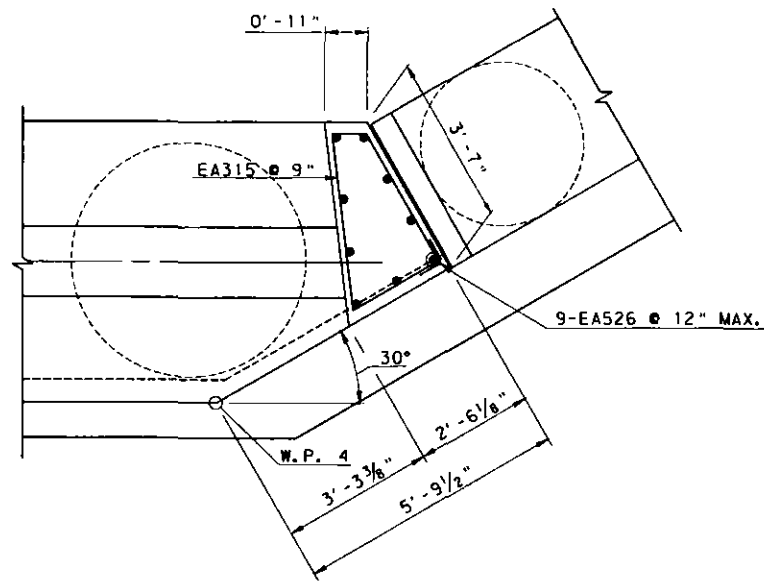
DES.	MRM	DRW.	ADC	CHK.	JCL	26048
DATE	12/2015	SCALE		SHEET	6 OF 46	

3/24/2016

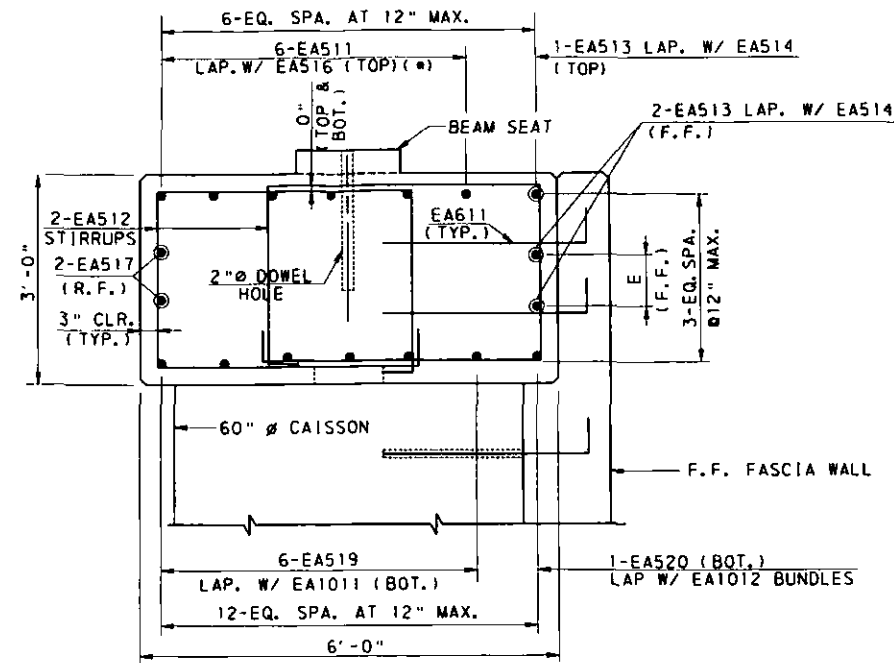
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SECTION A-A
 1 0 1 2 FEET
 SCALE: 1/2" = 1'-0"



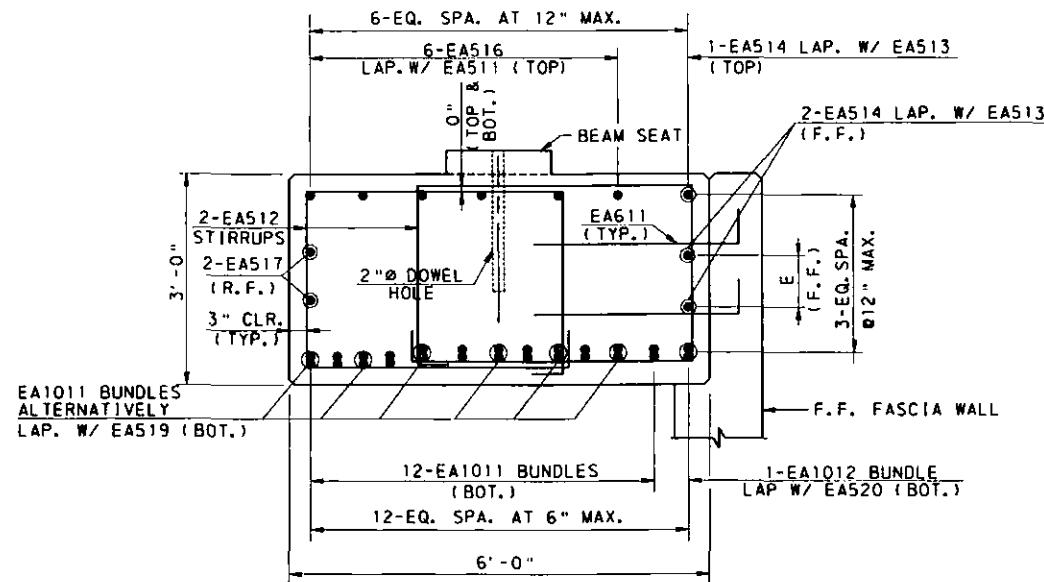
SECTION B-B
 1 0 1 2 FEET
 SCALE: 1/2" = 1'-0"



SECTION C-C
 1 0 1 2 FEET
 SCALE: 3/4" = 1'-0"

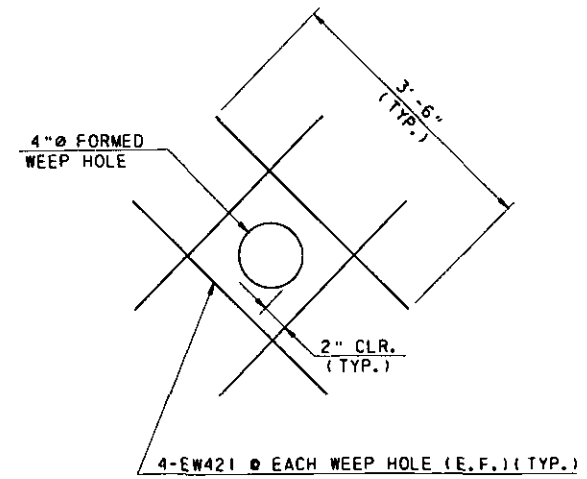
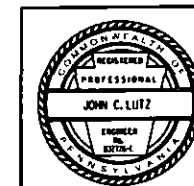
NOTE:
 • PLACE TOP BARS TO AVOID DOWEL HOLES.

E: 2-EA513 LAP. W/ 2-EA514 (F.F.)



SECTION D-D
 (CROSS EXIST. ABUT.)
 1 0 1 2 FEET
 SCALE: 3/4" = 1'-0"

LEGEND
 F.F. - FRONT FACE
 R.F. - REAR FACE
 E.F. - EACH FACE
 K.C.J. - KEYED CONSTR. JOINT

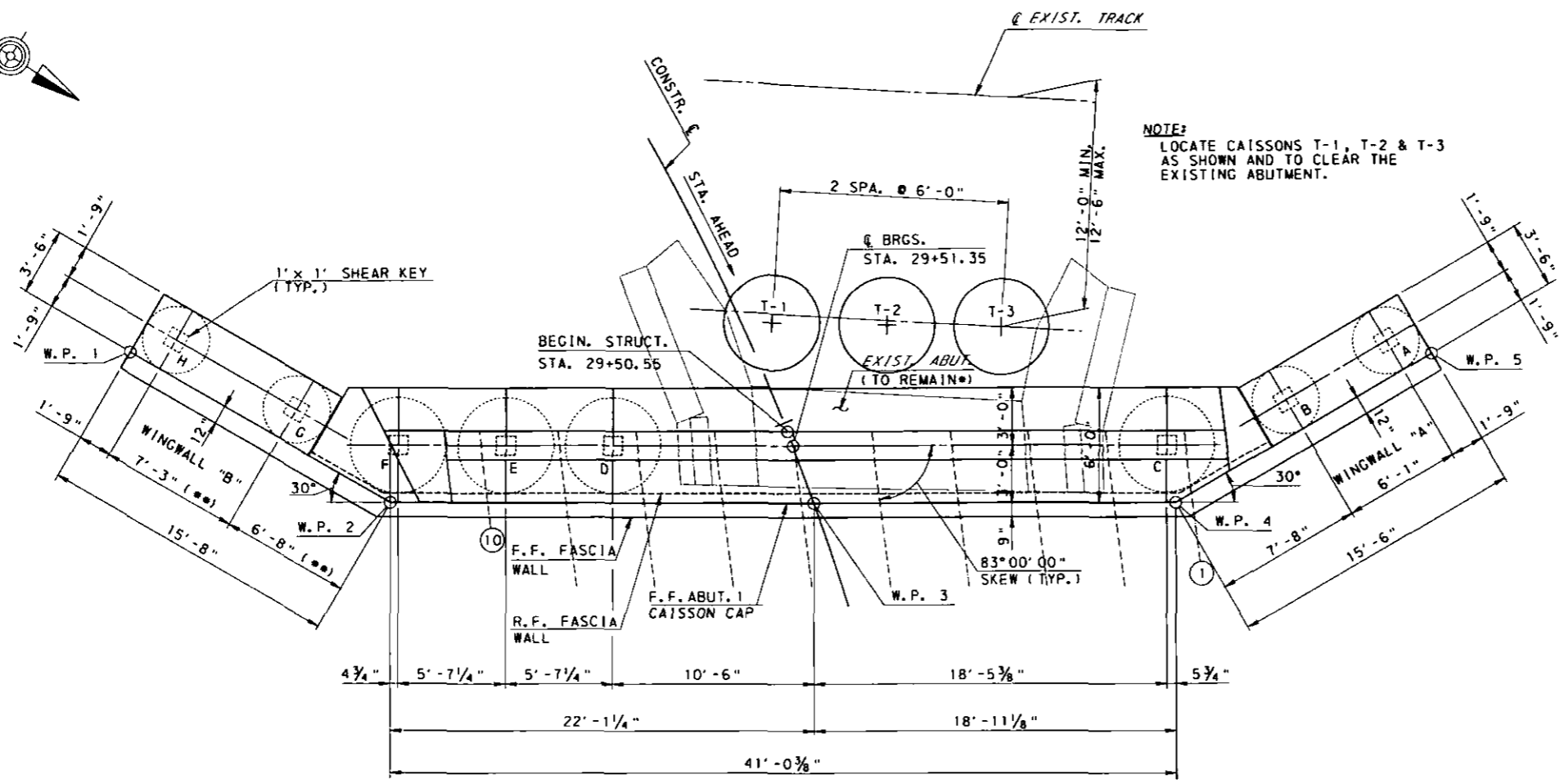
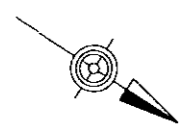


WEEP HOLE REINFORCEMENT
 N.T.S.

NOTES:

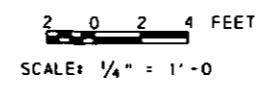
1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR LOCATIONS OF SECTIONS A-A THRU D-D, SEE SHEET 6.
3. FOR WATERPROOFING DETAILS, SEE BC-788M.
4. FOR FASCIA WALL REINFORCEMENT AND DETAILS, SEE SHEETS 11 & 12.
5. FOR BEAM SEAT REINFORCEMENT, SEE SHEET 11.

County of Allegheny Pittsburgh, Pennsylvania Department of Public Works			
CONSTRUCTION DRAWING EAST PENNVIEW STREET OVER PINE CREEK 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE ABUTMENT 1 SECTIONS & DETAILS PINE CREEK BRIDGE NO II STA 29+87.41 P111-0211			
DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 7 OF 46	



NOTE:
 LOCATE CAISSONS T-1, T-2 & T-3
 AS SHOWN AND TO CLEAR THE
 EXISTING ABUTMENT.

CAISSON PLAN



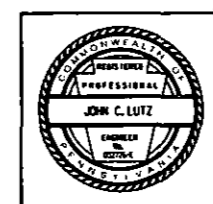
NOTES:

- SEE NOTE (*) ON SHEET 5.
- ** TO AVOID THE EXISTING 20" H.P. WATER LINE, CAISSON G MAY BE SHIFTED 1'-0" MAX. ALONG WINGWALL "B" TOWARDS CAISSON F.

NOTES:

1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR ABUTMENT 1 CAISSON DETAILS, SEE SHEET 9.
3. FOR TANGENT CAISSON DETAILS, SEE SHEET 10.
4. FOR WINGWALL "A" & "B" CAISSON DETAILS, SEE SHEET 15.

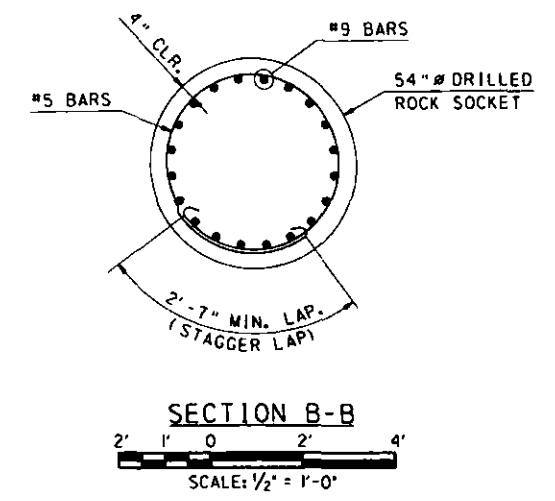
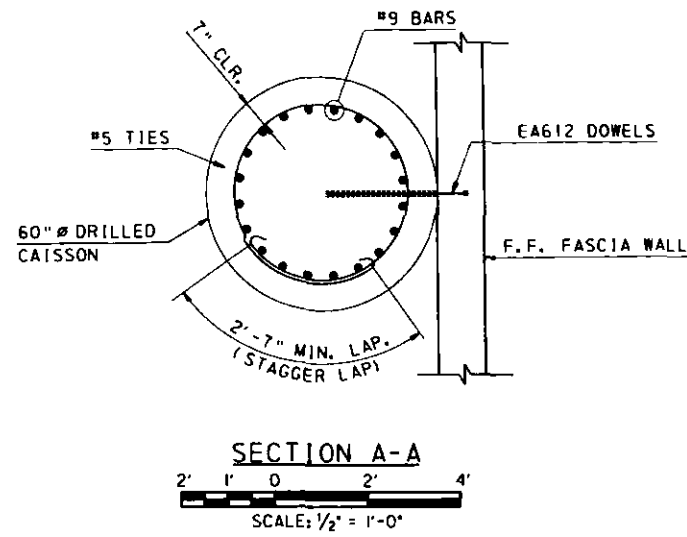
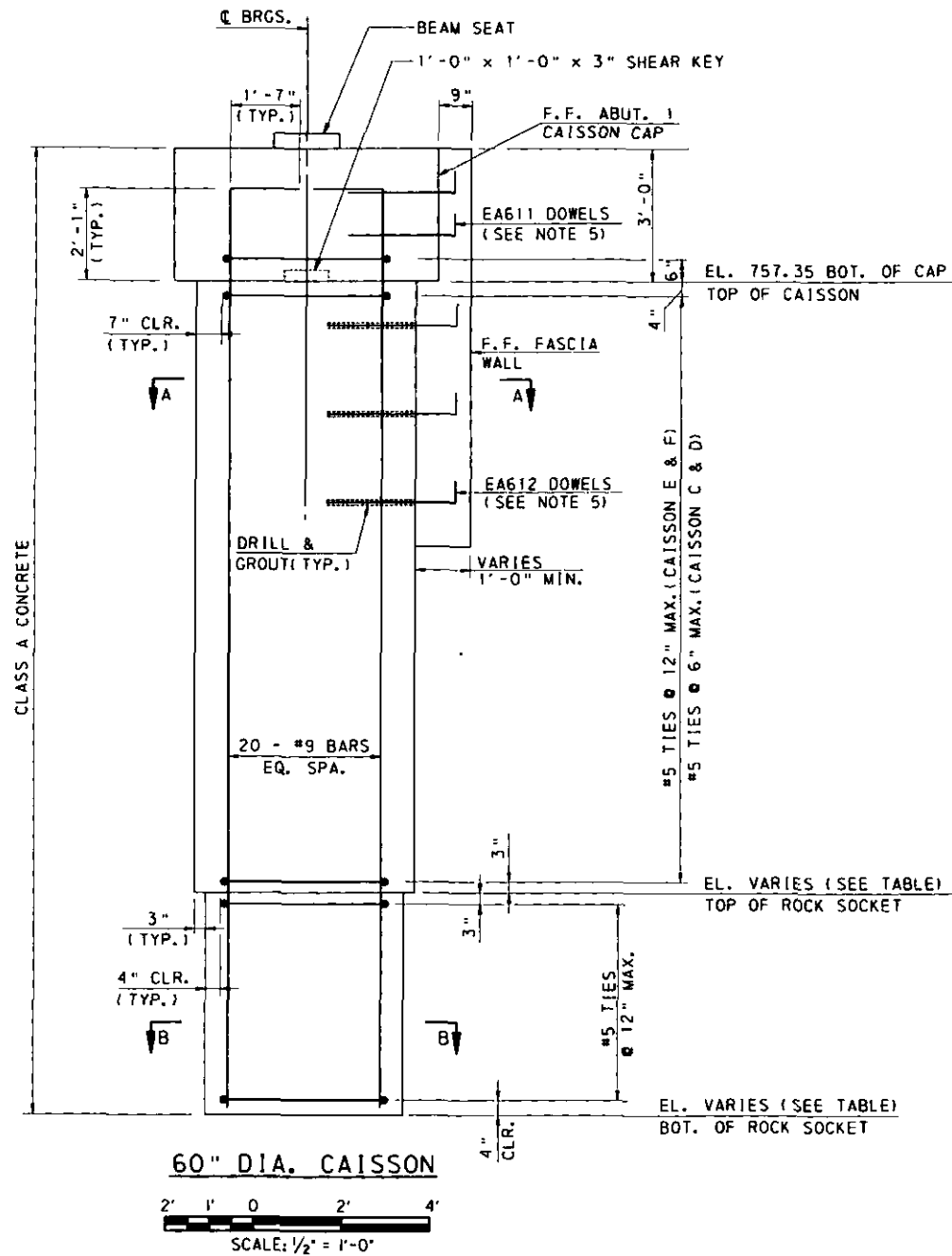
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County of Allegheny Pittsburgh, Pennsylvania Department of Public Works	
CONSTRUCTION DRAWING EAST PENNVIEW STREET OVER PINE CREEK 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE ABUTMENT 1 CAISSON PLAN PINE CREEK BRIDGE NO II STA 29+87.41 P111-0211	
DES. MRM DATE 12/2015	DRW. ADC SCALE
CHK. JCL SHEET 8 OF 46	26048

3/24/2016

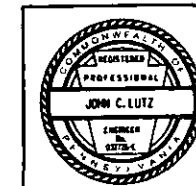
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CAISSON	TOP OF CAISSON ELEV. (ft)	TOP OF ROCK SOCKET ELEV. (ft) (*)	BOTTOM OF ROCK SOCKET ELEV. (ft)	ESTIMATED TEST HOLE DEPTH (ft)
C	757.35	740.00	735.00	32.35
D	757.35	740.00	735.00	32.35
E	757.35	740.00	735.00	32.35
F	757.35	740.00	735.00	32.35

NOTE: * TOP OF ROCK ELEVATIONS ESTIMATED FROM BORING DATA. CONFIRM ELEVATIONS WITH TEST HOLES. PROVIDE MIN. 5'-0" ROCK SOCKET.

- NOTES:
- FOR GENERAL NOTES, SEE SHEET 2.
 - FOR CAISSON PLAN, SEE SHEET B.
 - CAISSON REINFORCEMENT SHALL BE PAID FOR UNDER CAISSON ITEM.
 - DO NOT CONSTRUCT REINFORCED CAGES UNTIL CAISSON LENGTHS ARE APPROVED.
 - FOR DOWEL DETAILS, SEE SHEET 12.
 - PROVIDE TEMPORARY CASING FOR THE PORTION OF THE DRILLED CAISSON IN THE SOIL OVERBURDEN AND WEATHERED ROCK. THE CASING IS TO BE WITHDRAWN AS THE CONCRETE IS PLACED.



REVISIONS

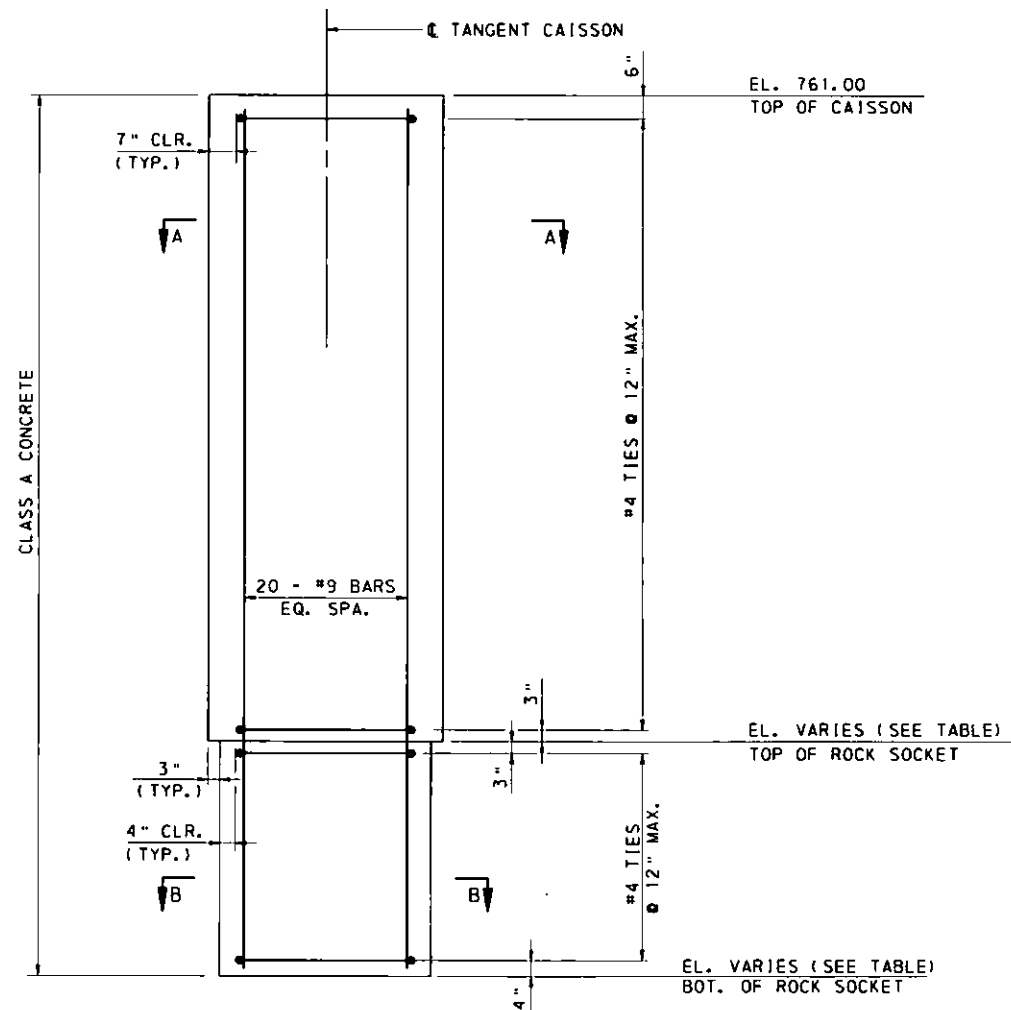
County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
ABUTMENT 1 CAISSON DETAILS
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

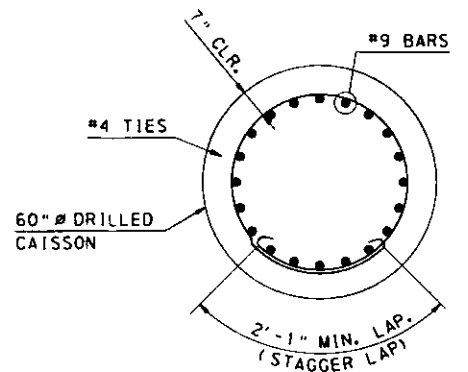
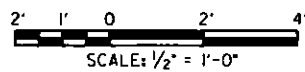
DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 9 OF 46	

3/24/2016

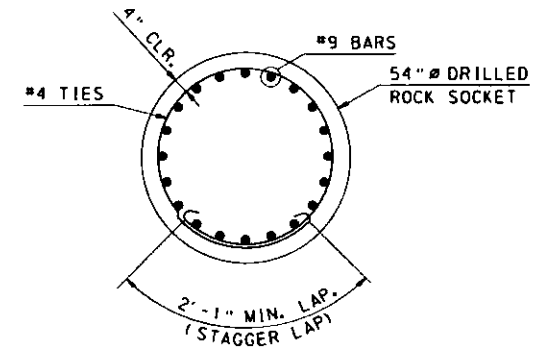
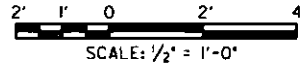
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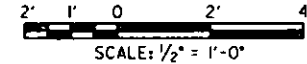
60" DIA. TANGENT CAISSON



SECTION A-A



SECTION B-B

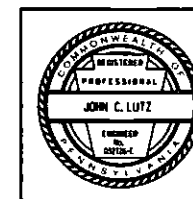


CAISSON	TOP OF CAISSON ELEV. (ft)	TOP OF ROCK SOCKET ELEV. (ft) (*)	BOTTOM OF ROCK SOCKET ELEV. (ft)	ESTIMATED TEST HOLE DEPTH (ft)
T-1	761.00	740.00	735.00	36.00
T-2	761.00	740.00	735.00	36.00
T-3	761.00	740.00	735.00	36.00

NOTE: * TOP OF ROCK ELEVATIONS ESTIMATED FROM BORING DATA. CONFIRM ELEVATIONS WITH TEST HOLES. PROVIDE MIN. 5'-0" ROCK SOCKET.

NOTES:

1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR CAISSON PLAN, SEE SHEET 8.
3. CAISSON REINFORCEMENT SHALL BE PAID FOR UNDER CAISSON ITEM.
4. DO NOT CONSTRUCT REINFORCED CAGES UNTIL CAISSON LENGTHS ARE APPROVED.
5. INSTALL TANGENT CAISSON PRIOR TO DEMOLISH THE EXISTING BRIDGE SUPERSTRUCTURE.
6. PROVIDE TEMPORARY CASING FOR THE PORTION OF THE DRILLED CAISSON IN THE SOIL OVERBURDEN AND WEATHERED ROCK. THE CASING IS TO BE WITHDRAWN AS THE CONCRETE IS PLACED.

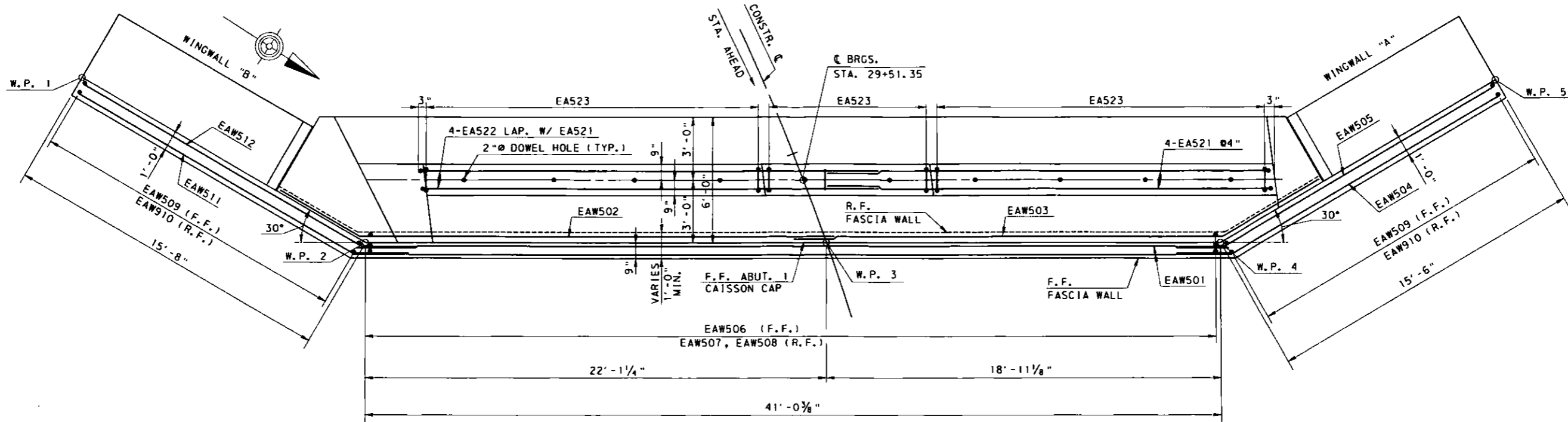


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County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
ABUTMENT 1 TANGENT
CAISSON DETAILS
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

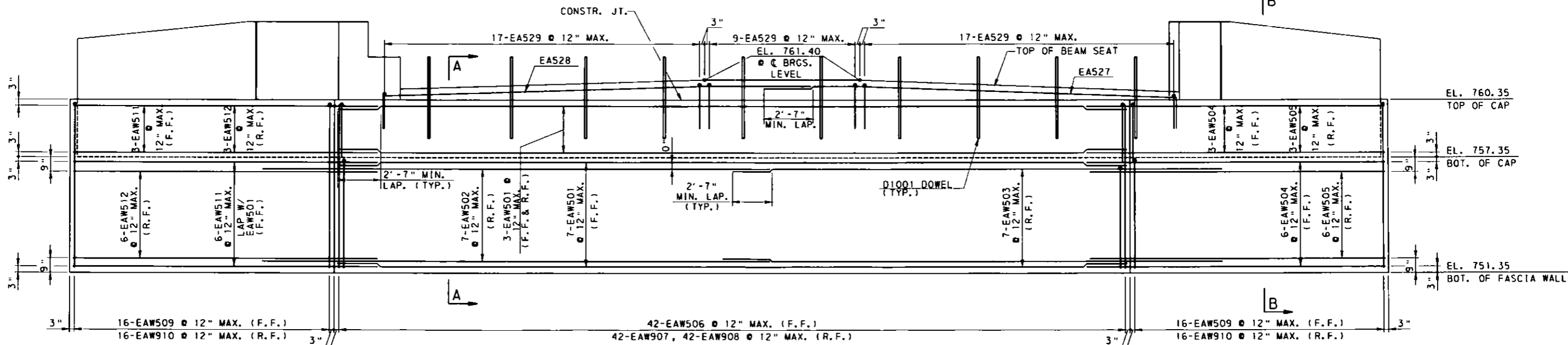
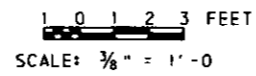
DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 10 OF 46	



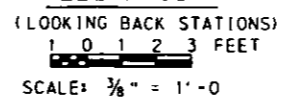
PLAN

NOTES:

1. CAISSON NOT SHOWN FOR CLARITY.
2. PLACE R.F. OF FASCIA WALL AGAINST EXIST. ABUTMENT F.F. S.I.P. FORM MAY BE USED AND LEFT-IN-PLACE AT R.F. OF FASCIA WALL.



ELEVATION

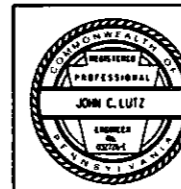


NOTES:

1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR SECTIONS A-A AND B-B, SEE SHEET 12.
3. FOR BEAM SEAT ELEVATIONS SEE SHEET 13.

NOTE:

1. EA611 DOWELS ON CAISSON CAP NOT SHOWN FOR CLARITY.



REVISIONS					

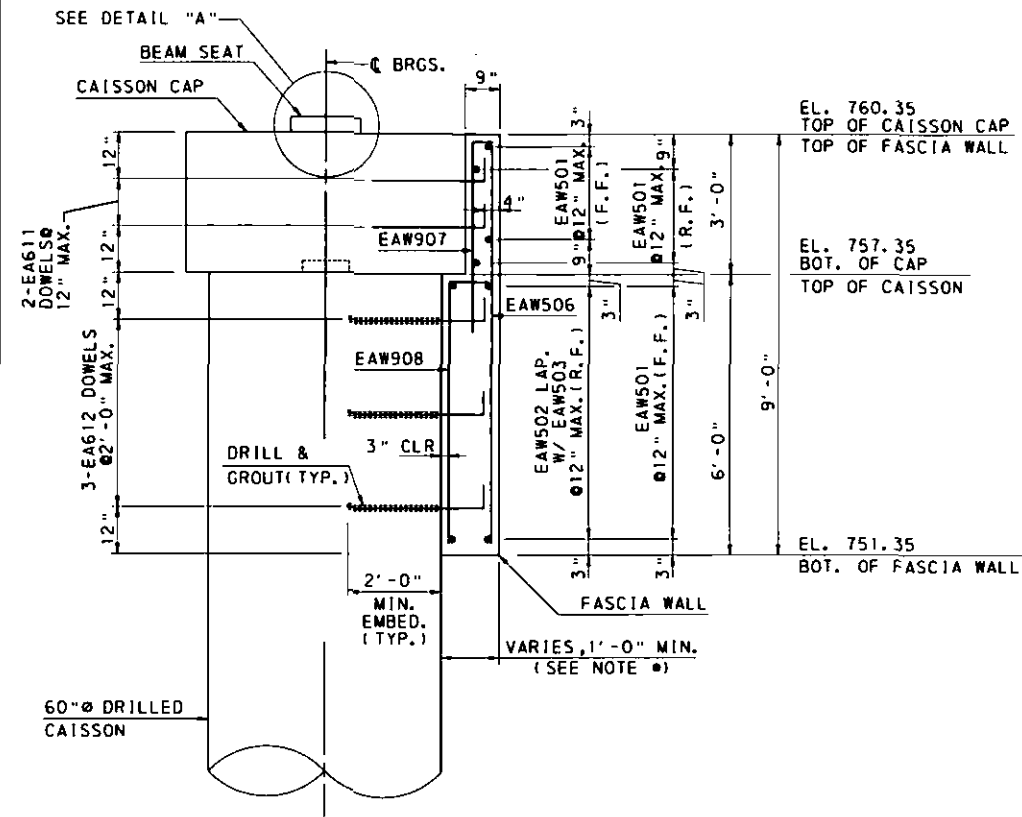
County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
ABUTMENT 1 BEAM SEAT &
FASCIA WALL PLAN & ELEVATION
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES.	MRM	DRW.	ADC	CHK.	JCL	26048
DATE	12/2015	SCALE		SHEET	11 OF 46	

3/24/2016

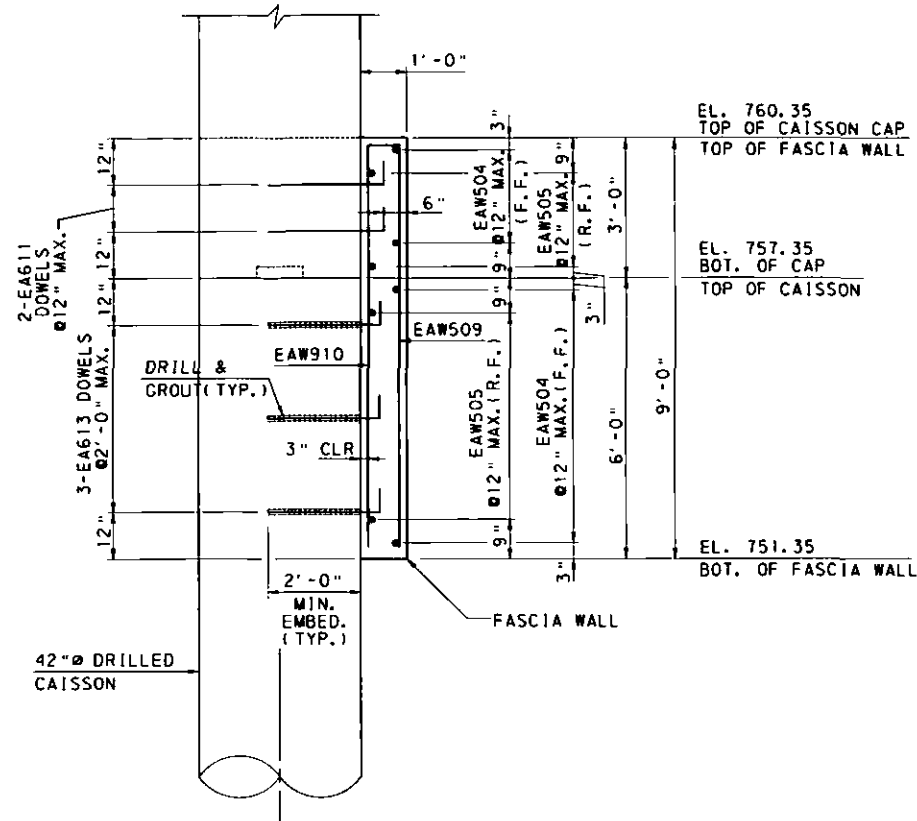
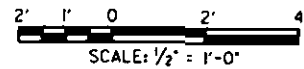
J:\PROJ\76051-00\CADD\B1\1\UC\1\1\FINAL DESIGN\1\NECREEK_SHT12-ABUT 1 FASCIA WALL SECTIONS AND DETAILS.dgn



NOTES:

- PLACE R.F. OF FASCIA WALL AGAINST EXIST. ABUTMENT F.F.. S.I.P. FORM MAY BE USED AND LEFT-IN-PLACE AT R.F. OF FASCIA WALL.

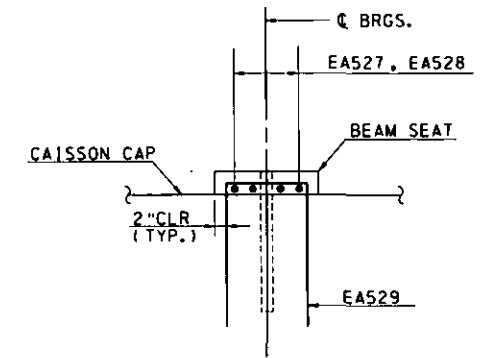
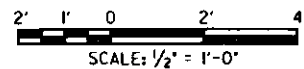
SECTION A-A
FASCIA WALL DETAIL
AT ABUTMENT 1



NOTES:

- 1. FASCIA WALL DETAIL AT WINGWALL "A" SHOWN. FASCIA WALL DETAIL AT WINGWALL "B" SIMILAR, EXCEPT FOR NOTED AS SHOWN ON SHEET 11.

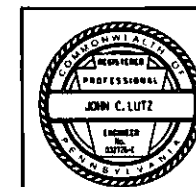
SECTION B-B
FASCIA WALL DETAIL
AT WINGWALL "A"



DETAIL "A"
N. T. S.

NOTES:

- 1. FOR GENERAL NOTES, SEE SHEET 2.
- 2. FOR REINFORCEMENT BAR SCHEDULE, SEE SHEET 16.
- 3. FOR LOCATIONS OF SECTIONS A-A AND B-B, SEE SHEET 11.



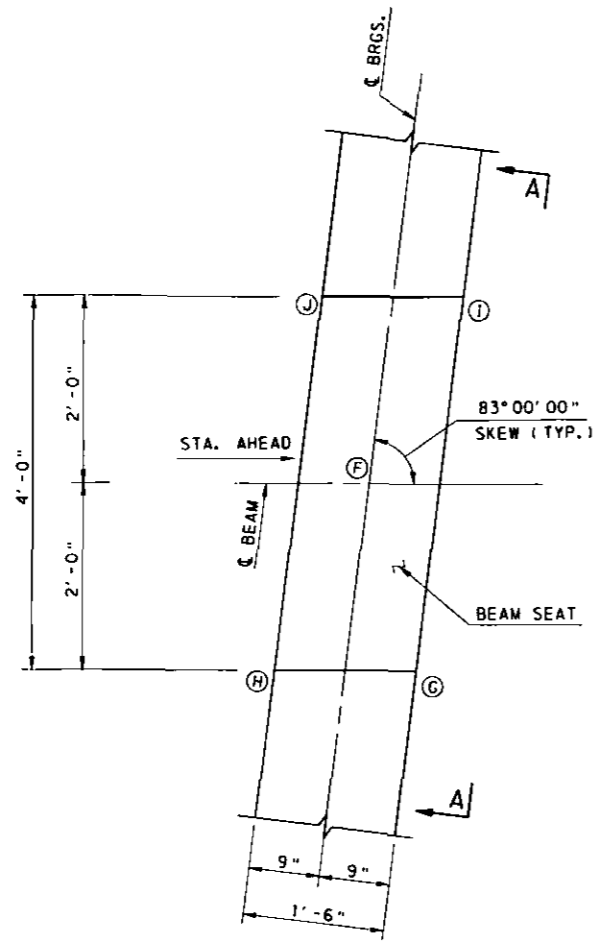
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Pittsburgh, Pennsylvania
Department of Public Works

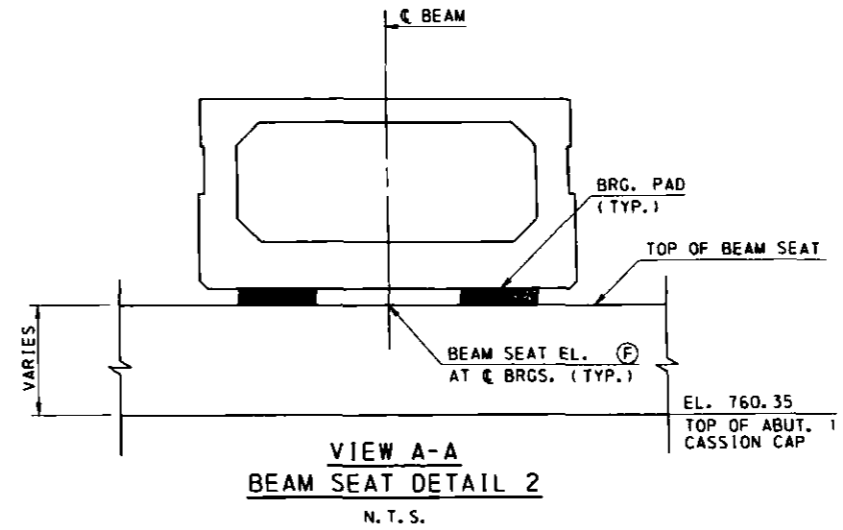
CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
ABUTMENT 1 FASCIA
WALL SECTIONS & DETAILS
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 12 OF 46	

J:\PROJ\76051-00\CADD\517\UC10\0\FINAL DESIGN\PI\CREEK_SHT13_ABUT 1 BEAM SEAT DETAILS AND ELEV TABLE.dgn 3/24/2016



BEAM SEAT DETAIL 1
N. T. S.

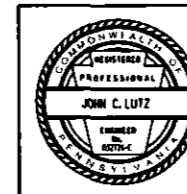


**VIEW A-A
BEAM SEAT DETAIL 2**
N. T. S.

ABUTMENT 1 BEAM SEAT LOCATION AND ELEVATION TABLE						
BEAM NO.	C BEAM OFFSET *	F	I	J	G	H
①	20'-6 3/4" LT.	760.90	760.83	760.83	760.98	760.97
②	16'-5 3/8" LT.	761.05	760.98	760.98	761.12	761.12
③	12'-4 1/2" LT.	761.19	761.12	761.12	761.26	761.26
④	8'-3 3/8" LT.	761.33	761.26	761.26	761.41	761.40
⑤	4'-2 1/4" LT.	761.40	761.41	761.40	761.41	761.40
⑥	0'-1 1/8" LT.	761.40	761.41	761.40	761.41	761.40
⑦	4'-0" RT.	761.31	761.41	761.40	761.23	761.22
⑧	8'-1 1/8" RT.	761.13	761.22	761.22	761.04	761.04
⑨	12'-2 1/4" RT.	760.95	761.04	761.04	760.86	760.86
⑩	16'-3 3/8" RT.	760.77	760.87	760.86	760.68	760.68

NOTE:
* C BEAM OFFSET IS MEASURED FROM THE CONSTRUCTION C, ALONG THE C OF BEARING, LOOKING AHEAD STATIONS.

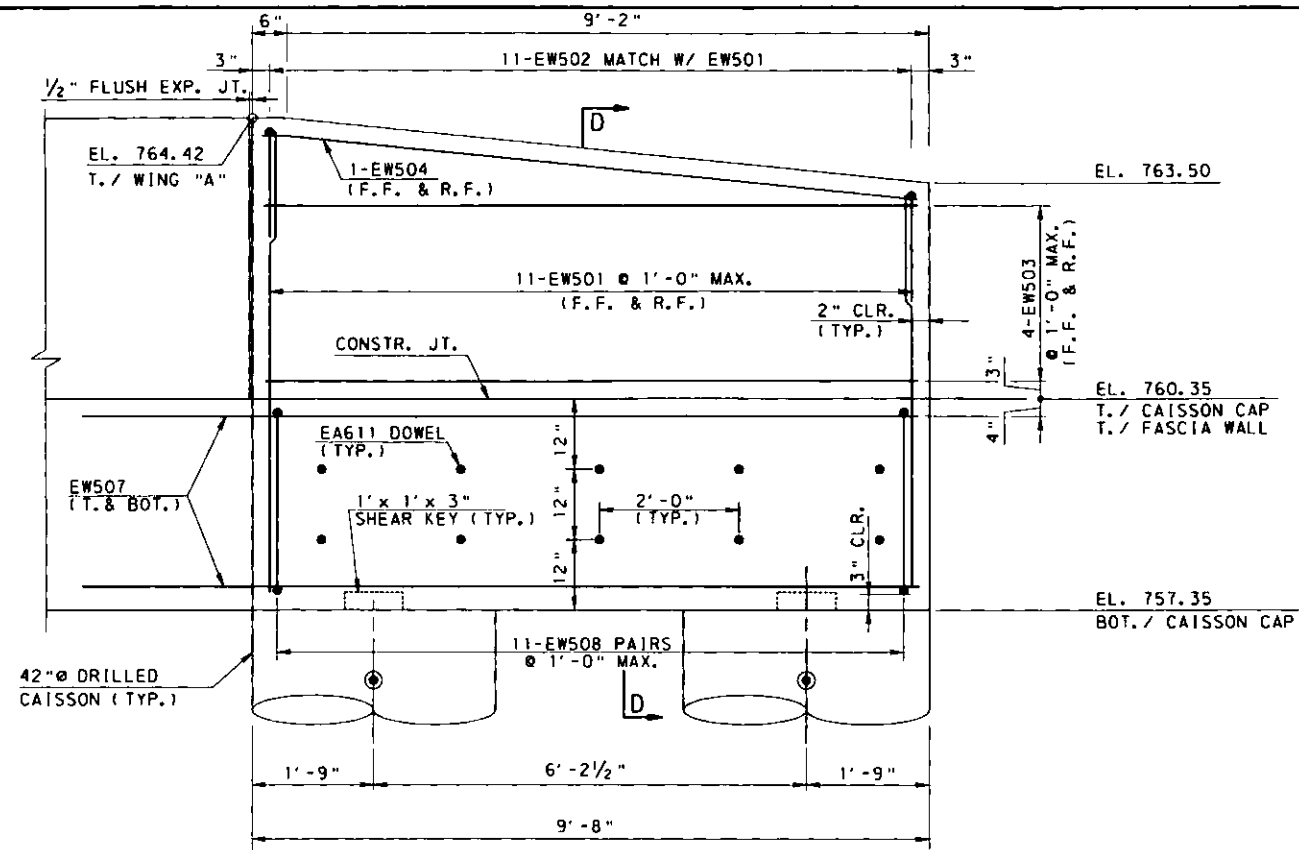
- NOTES:**
1. FOR BEAM SEAT REINFORCING, SEE SHEET 11.
 2. FOR ELASTOMERIC BEARING DETAILS, SEE SHEET 33.



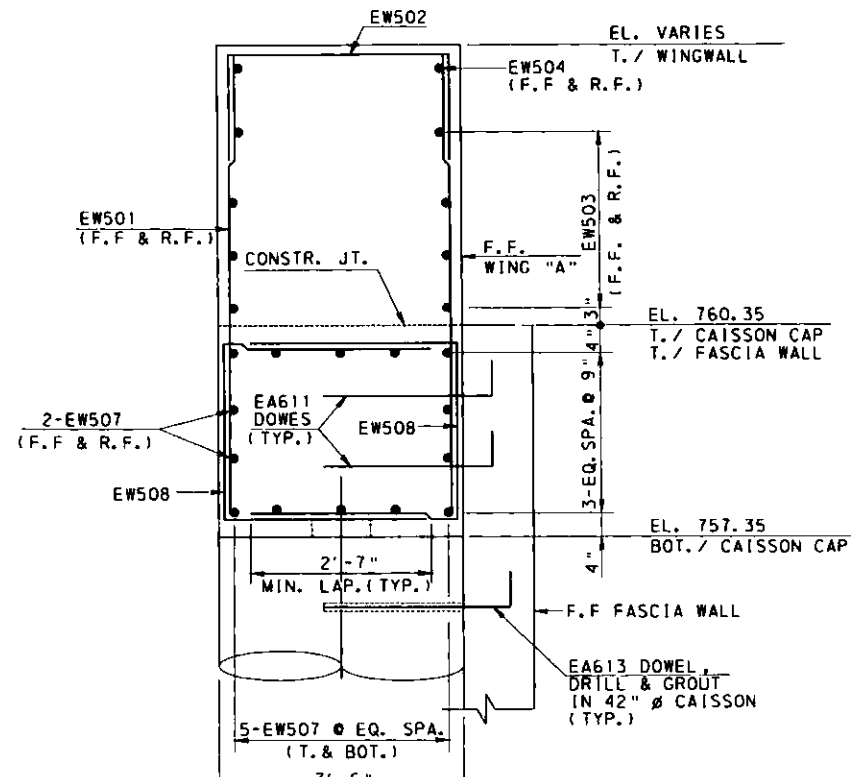
REVISIONS		County of Allegheny Pittsburgh, Pennsylvania Department of Public Works	
		CONSTRUCTION DRAWING EAST PENNVIEW STREET OVER PINE CREEK 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE ABUT. 1 BEAM SEAT DETAILS AND ELEVATION TABLE PINE CREEK BRIDGE NO II STA 29+87.41 P111-0211	
DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 13 OF 46	

3/24/2016

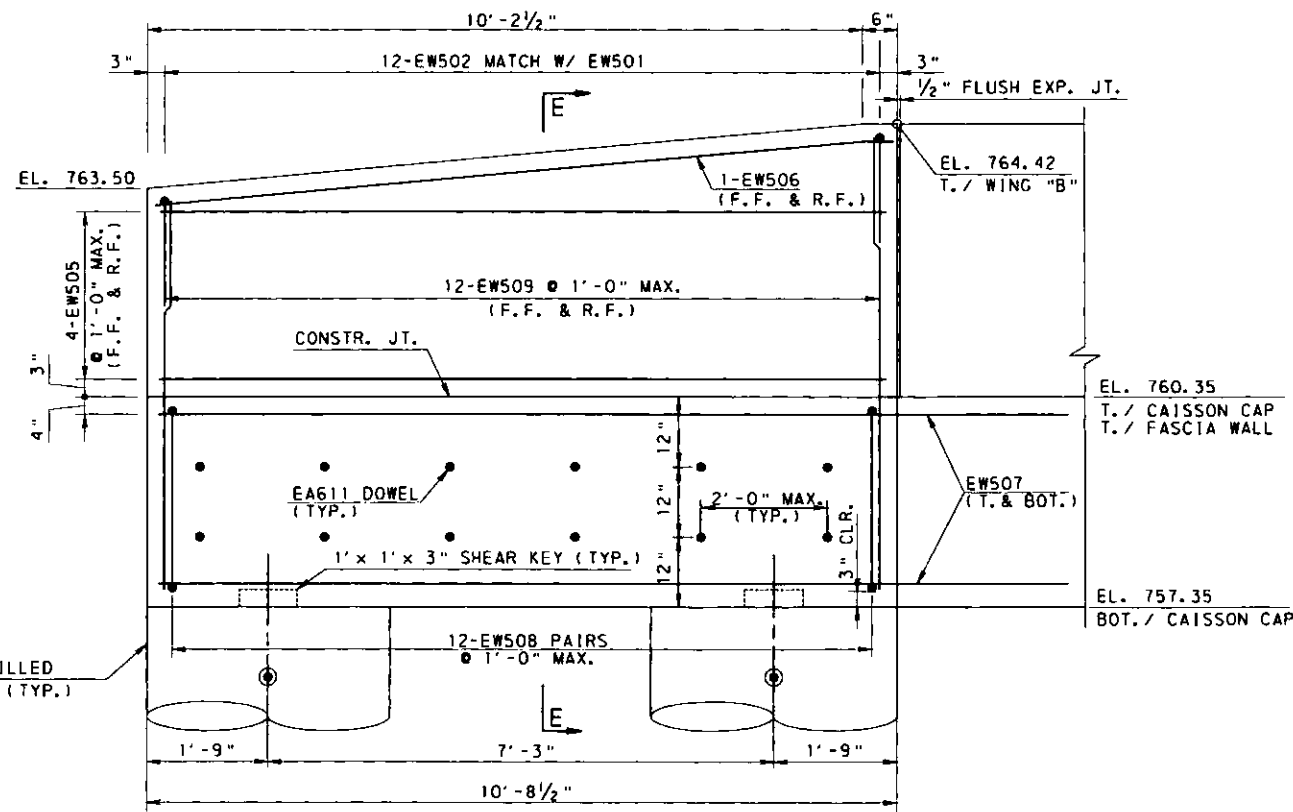
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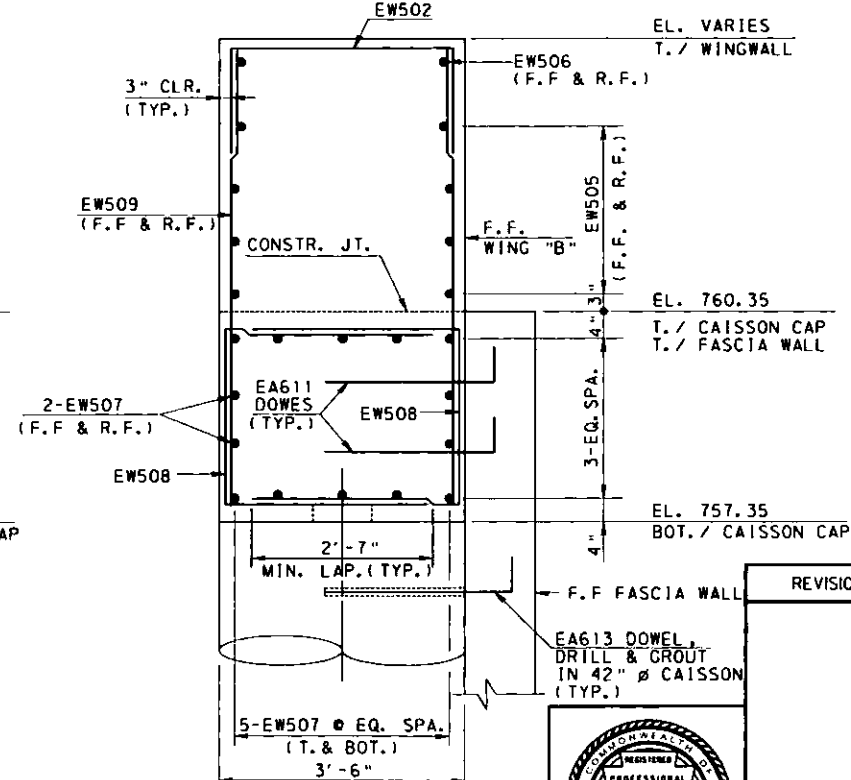
SCALE: 3/4" = 1'-0"



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



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



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

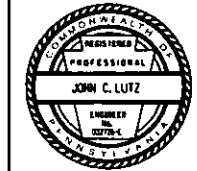
LEGEND:
 F.F. = FRONT FACE
 R.F. = REAR FACE
 E.F. = EACH FACE

- NOTES:
1. FOR GENERAL NOTES, SEE SHEET 2.
 2. FOR REINFORCEMENT BAR SCHEDULE, SEE SHEET 16.
 3. WORK THIS SHEET WITH SHEETS 6, 11 & 12.

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 Department of Public Works

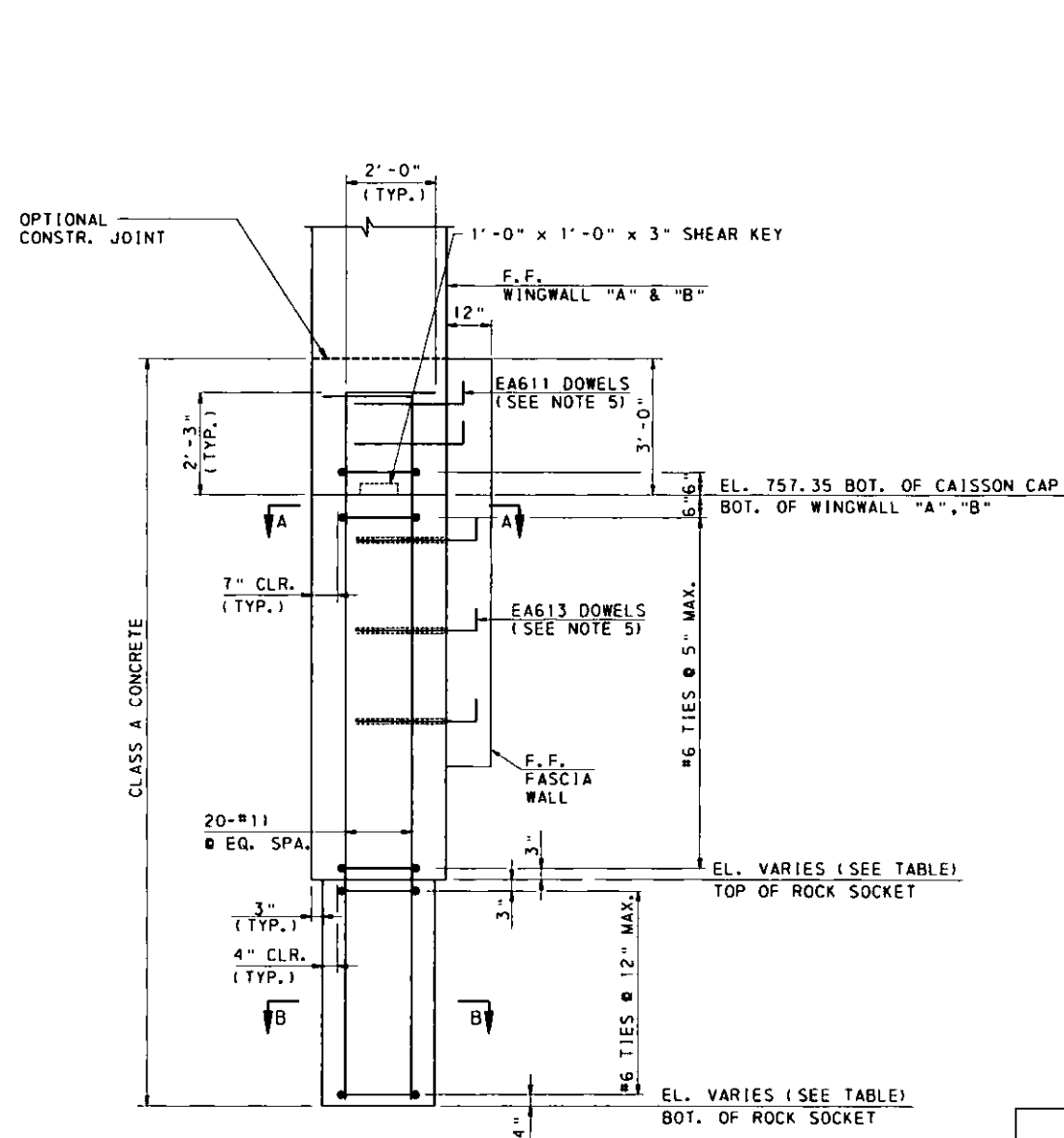
CONSTRUCTION DRAWING
 EAST PENNVIEW STREET OVER PINE CREEK
 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
 ABUTMENT 1
 WINGWALLS "A" & "B"
 PINE CREEK BRIDGE NO II
 STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 14 OF 46	

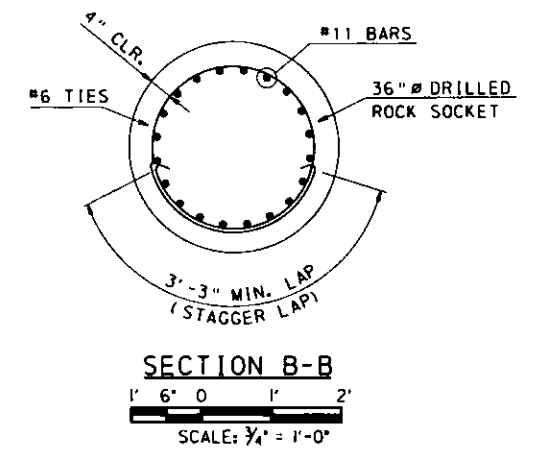
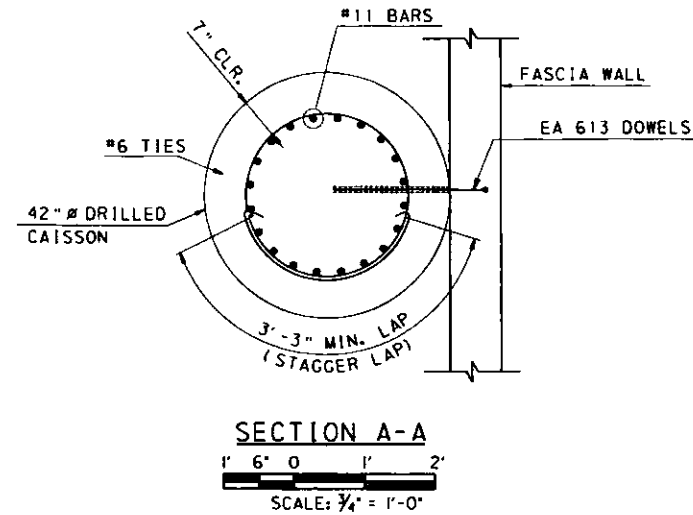


3/24/2016

J:\PROJECTS\76051-00\CADD\9877\UC\1\FINAL DESIGN\PINECREEK_SHT115_ABUT 1 WINGWALLS A-B CAISSON DETAILS.dgn



42" DIA. CAISSON
SCALE: 1/2" = 1'-0"

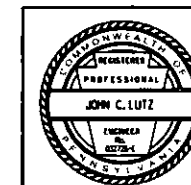


NOTES:

1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR CAISSON PLAN, SEE SHEET 8.
3. CAISSON REINFORCEMENT SHALL BE PAID FOR UNDER CAISSON ITEM.
4. DO NOT CONSTRUCT REINFORCED CAGES UNTIL CAISSON LENGTHS ARE APPROVED.
5. FOR DOWEL DETAILS, SEE SHEET 12.
6. PROVIDE TEMPORARY CASING FOR THE PORTION OF THE DRILLED CAISSON IN THE SOIL OVERBURDEN AND WEATHERED ROCK. THE CASING IS TO BE WITHDRAWN AS THE CONCRETE IS PLACED.

CAISSON	TOP OF CAISSON ELEV. (ft)	TOP OF ROCK SOCKET ELEV. (ft) (#)	BOTTOM OF ROCK SOCKET ELEV. (ft)	ESTIMATED TEST HOLE DEPTH (ft)
A	757.35	740.00	735.00	32.43
B	757.35	740.00	735.00	32.43
G	757.35	740.00	735.00	32.43
H	757.35	740.00	735.00	32.43

NOTE: • TOP OF ROCK ELEVATIONS ESTIMATED FROM BORING DATA. CONFIRM ELEVATIONS WITH TEST HOLES. PROVIDE MIN. 5'-0" ROCK SOCKET.



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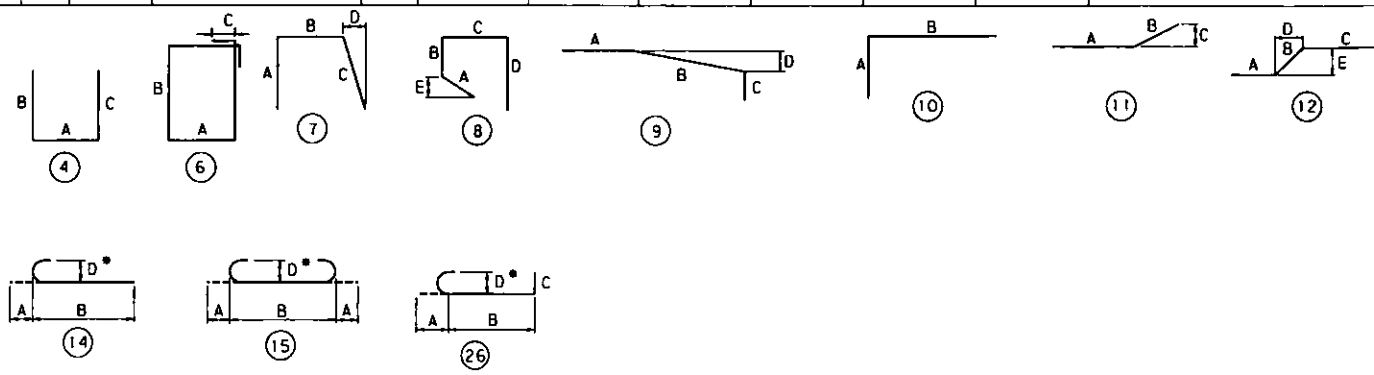
CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
ABUTMENT 1 WINGWALLS "A", "B"
CAISSON DETAILS
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES. MRM	DRW. SRC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 15 OF 46	

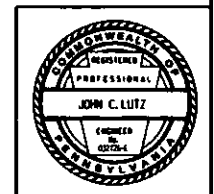
3/24/2016
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MARK	SIZE	NUMBER	LENGTH	TYPE	A	B	C	D	E	R	REMARKS
CAISSON CAP											
EA511	5	6	30'-0"	STR							
EA512	5	92	14'-1"	6	4'-0 1/2"	2'-6"	0'-6"				
EA513	5	3	26'-2"	11	21'-6"	4'-8"	2'-4"				
EA514	5	3	27'-2 1/2"	11	21'-6"	5'-8 1/2"	2'-10"				
EA516	5	6	22'-0"	STR							
EA517	5	4	24'-6"	STR							
EA519	5	6	16'-3"	STR							
EA520	5	1	18'-7"	11	13'-11"	4'-8"	2'-4"				
EA521	5	10	12'-10"	6	3'-5"	2'-6"	0'-6"				
EA522	5	4	9'-6" TO 12'-0"	4	2'-6"	3'-6" TO 4'-9"					VARIES EACH B BY 5"
EA523	5	5	9'-6" TO 12'-6" TO 12'-6"	4	2'-6"	3'-6" TO 5'-0"					VARIES EACH B BY 4 1/2"
EA611	6	62	2'-11"	10	6"	2'-5"					
EA612	6	12	3'-4"	10	6"	2'-10"					
EA613	6	12	3'-2"	10	6"	2'-8"					
EA1011	10	24	40'-0"	STR							
EA1012	10	2	40'-0"	11	34'-3"	5'-9"	2'-10"				
D1001	---	10	4'-3"	STR							1/4" DIA. PLAIN DOWEL BAR
CHEEK WALL (INCL. CAISSON CAP BOTH ENDS)											
EA311	3	6	11'-0"	STR							BENT IN FIELD
EA312	3	6	8'-0"	STR							BENT IN FIELD
EA313	3	4	10'-0"	STR							BENT IN FIELD
EA314	3	4	8'-0"	STR							BENT IN FIELD
EA315	3	6	5'-0"	STR							BENT IN FIELD
EA316	3	6	7'-0"	STR							BENT IN FIELD
EA525	5	14	4'-10"	STR							
EA526	5	24	6'-7"	STR							
BEAM SEAT											
EA527	5	4	24'-0"	9	5'-6"	16'-6"	2'-0"	7"			
EA528	5	4	24'-3"	9	5'-6"	16'-9"	2'-0"	9"			
EA529	5	42	5'-10"	4	2'-4"	1'-2"	2'-4"				

MARK	SIZE	NUMBER	LENGTH	TYPE	A	B	C	D	E	R	REMARKS
CAISSON FASCIA WALL											
EW421	4	24	3'-6"	STR							
EAWS01	5	13	41'-10"	STR							
EAWS02	5	7	23'-8"								
EAWS03	5	7	20'-0"								
EAWS04	5	9	18'-7"	11	15'-4"	3'-3"	1'-7 1/2"				
EAWS05	5	9	18'-8"	11	15'-5"	3'-3"	1'-7 1/2"				
EAWS06	5	42	8'-8"	STR							
EAWS09	5	32	8'-8"	STR							
EAWS11	5	9	18'-9"	11	15'-6"	3'-3"	1'-7 1/2"				
EAWS12	5	9	18'-10"	11	15'-7"	3'-3"	1'-7 1/2"				
EAWS07	9	42	4'-6"	10	0'-5"	4'-1"					
EAWS08	9	42	6'-3"	10	0'-7"	5'-8"					
EAWS10	9	32	9'-3"	10	0'-7"	8'-8"					
WINGWALL "A"											
EW501	5	22	5'-9" TO 6'-7"	STR							2" EACH VARY BY 1"
EW502	5	11	6'-1"	4	1'-6"	3'-1"	1'-6"				
EW503	5	8	9'-2"	STR							
EW504	5	2	9'-4"	STR							
EW507	5	14	15'-0"	STR							
EW508	5	22	8'-4"	4	2'-11"	2'-6"	2'-11"				
WINGWALL "B"											
EW509	5	24	5'-8" TO 6'-7"	STR							2" EACH VARY BY 1"
EW502	5	12	6'-1"	4	1'-6"	3'-1"	1'-6"				
EW505	5	8	10'-4"	STR							
EW506	5	2	10'-5"	STR							
EW507	5	14	15'-0"	STR							
EW508	5	24	8'-4"	4	2'-11"	2'-6"	2'-11"				



- "*" DIMENSION ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
- FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO STANDARD DRAWING BC-736M.
- FIGURES IN CIRCLES SHOW TYPES.
- "E" - INDICATES EPOXY COATED REBARS.
- FOR ALL BAR TYPES SHOWN, DIMENSIONS A-H AND LENGTH ARE MEASURED ALONG OUTSIDE OF BAR. R IS MEASURED ALONG INSIDE OF BAR.



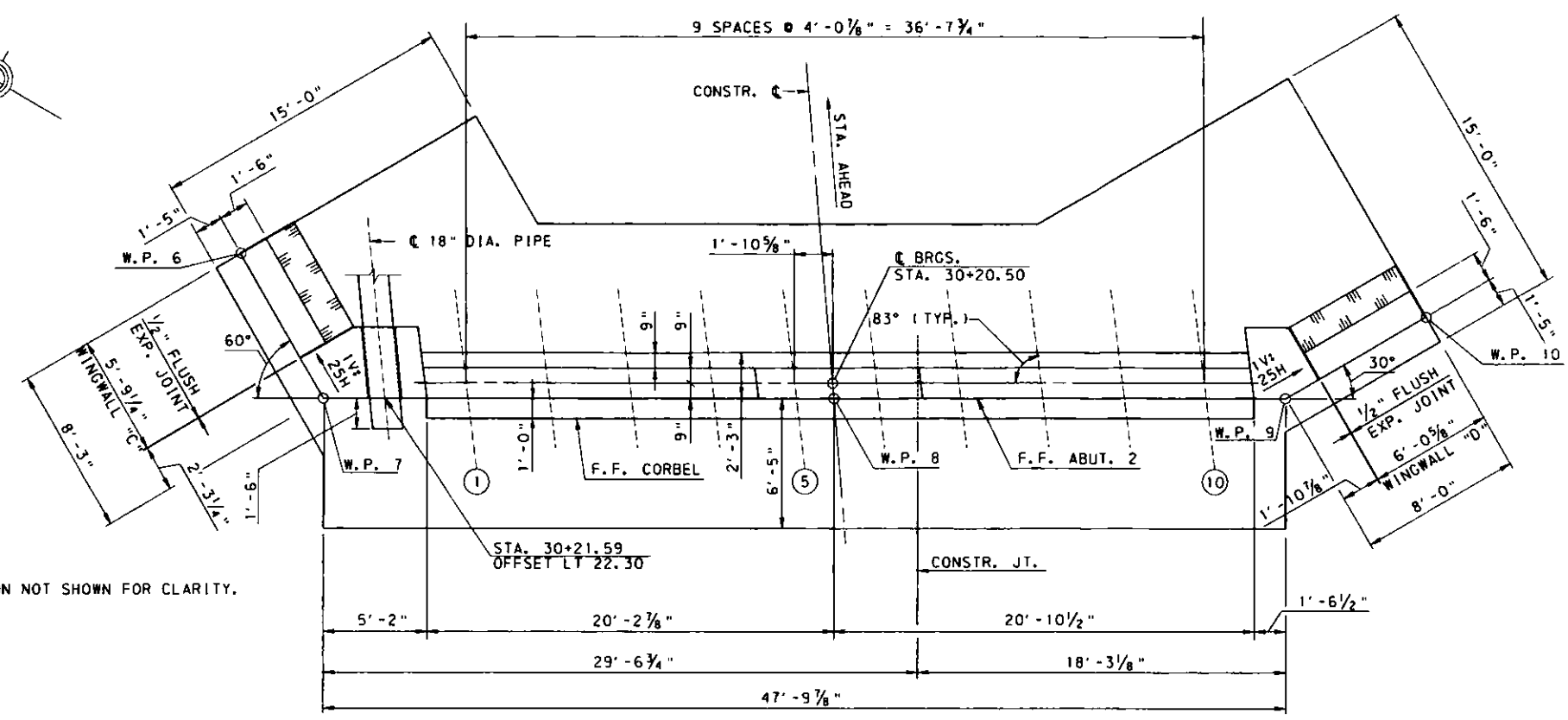
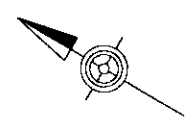
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Department of Public Works

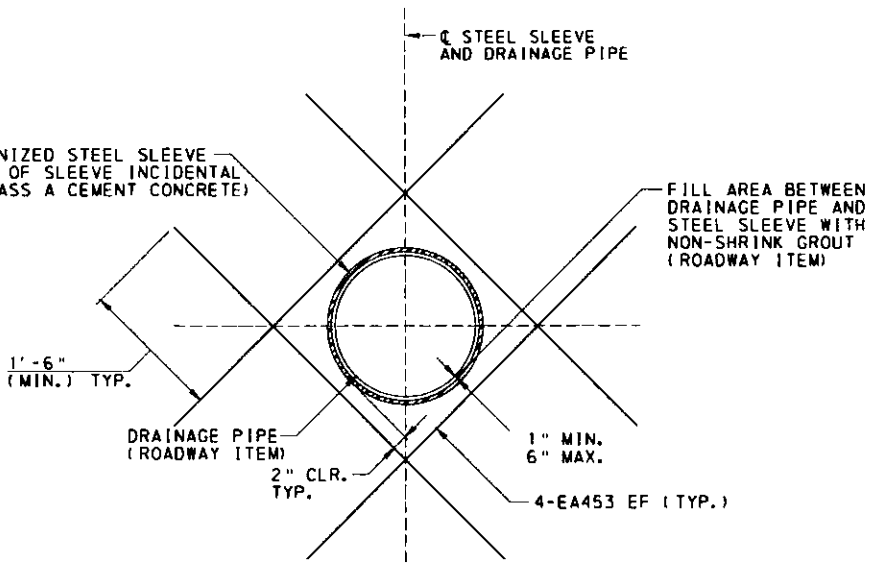
CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
ABUTMENT 1 REBAR SCHEDULE

PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 16 OF 46	



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

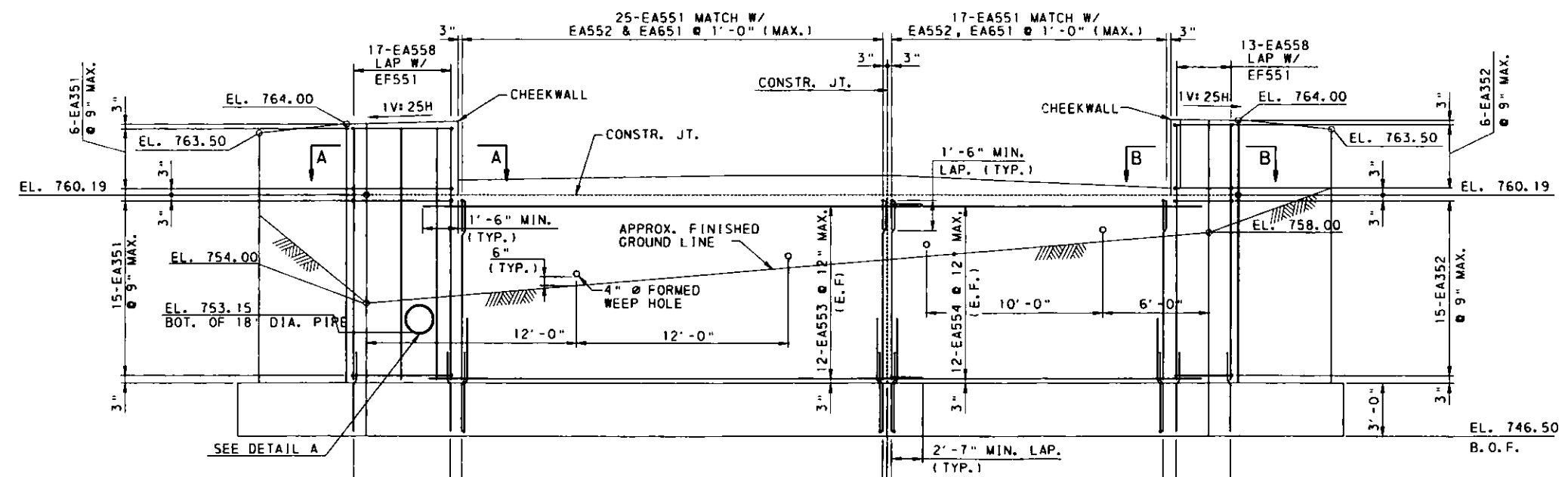


DETAIL A
N. T. S.

NOTE: ADJUST WALL REINFORCEMENT BARS TO CLEAR GALVANIZED STEEL SLEEVE.

NOTE: CAISSON NOT SHOWN FOR CLARITY.

- NOTES:**
- FOR GENERAL NOTES, SEE SHEET 2.
 - FOR CONSTRUCTION & EXPANSION JOINT DETAILS, SEE BC-735M.
 - FOR WATERPROOFING DETAILS, SEE SHEET 18 AND BC-788M.
 - FOR SECTIONS A-A THRU D-D, SEE SHEET 18.
 - APPLY PROTECTIVE COATING TO EXPOSED SUBSTRUCTURE CONCRETE SURFACES. SEE GENERAL NOTES.
 - FOR REINFORCEMENT SCHEDULE, SEE SHEET 28.
 - FOR ADDITIONAL INFORMATION OF 18" DIA. PIPE, REFER TO ROADWAY PLAN.

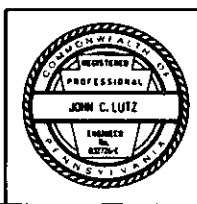


ELEVATION

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

NOTE: CAISSON AND CORBEL NOT SHOWN FOR CLARITY.

- LEGEND:**
- F. F. - FRONT FACE
 - R. F. - REAR FACE
 - E. F. - EACH FACE
 - K. C. J. - KEYED CONSTR. JOINT



County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
ABUTMENT 2-PLAN & ELEVATION

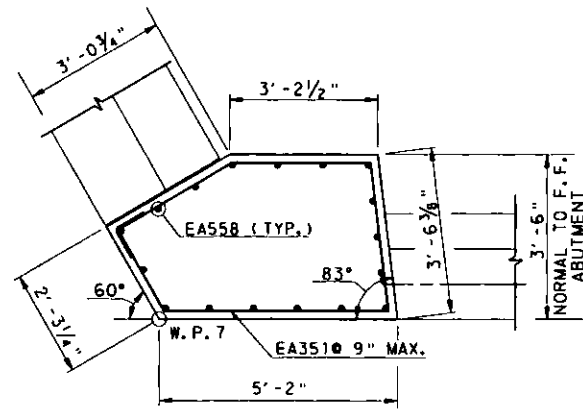
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 17 OF 46	

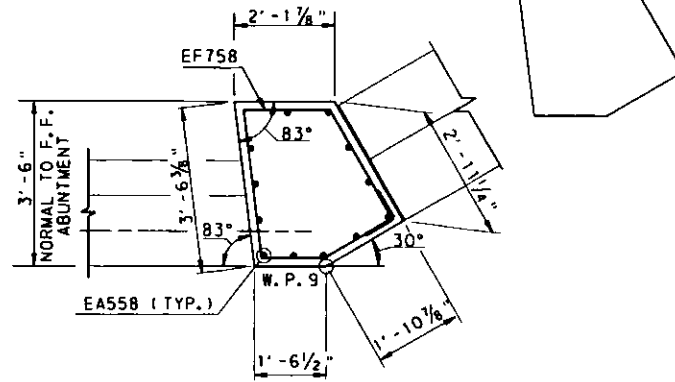
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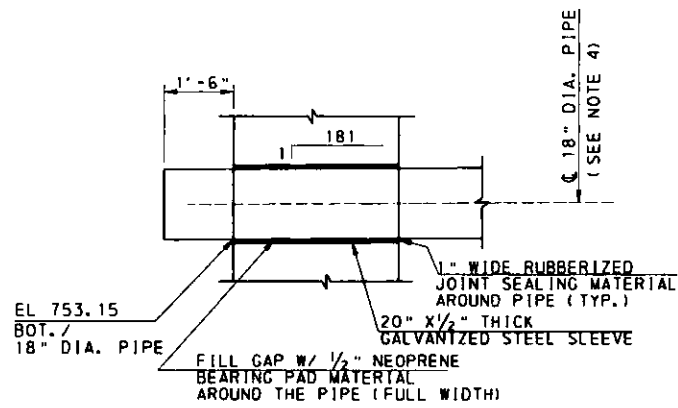
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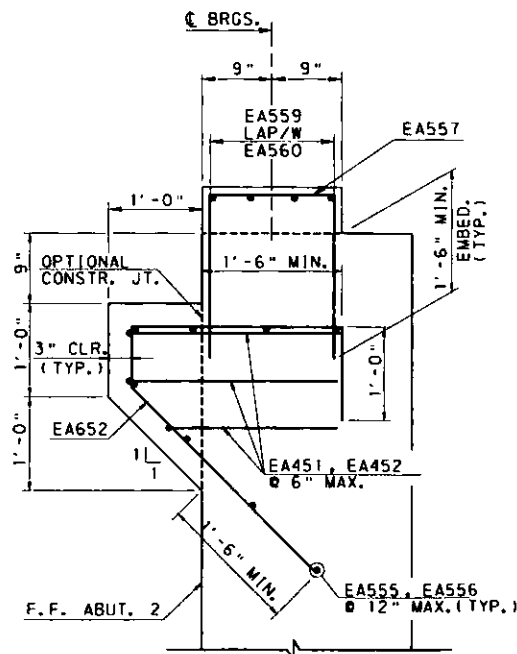
SECTION A-A
 1 0 1 2 FEET
 SCALE: 1/2" = 1'-0"



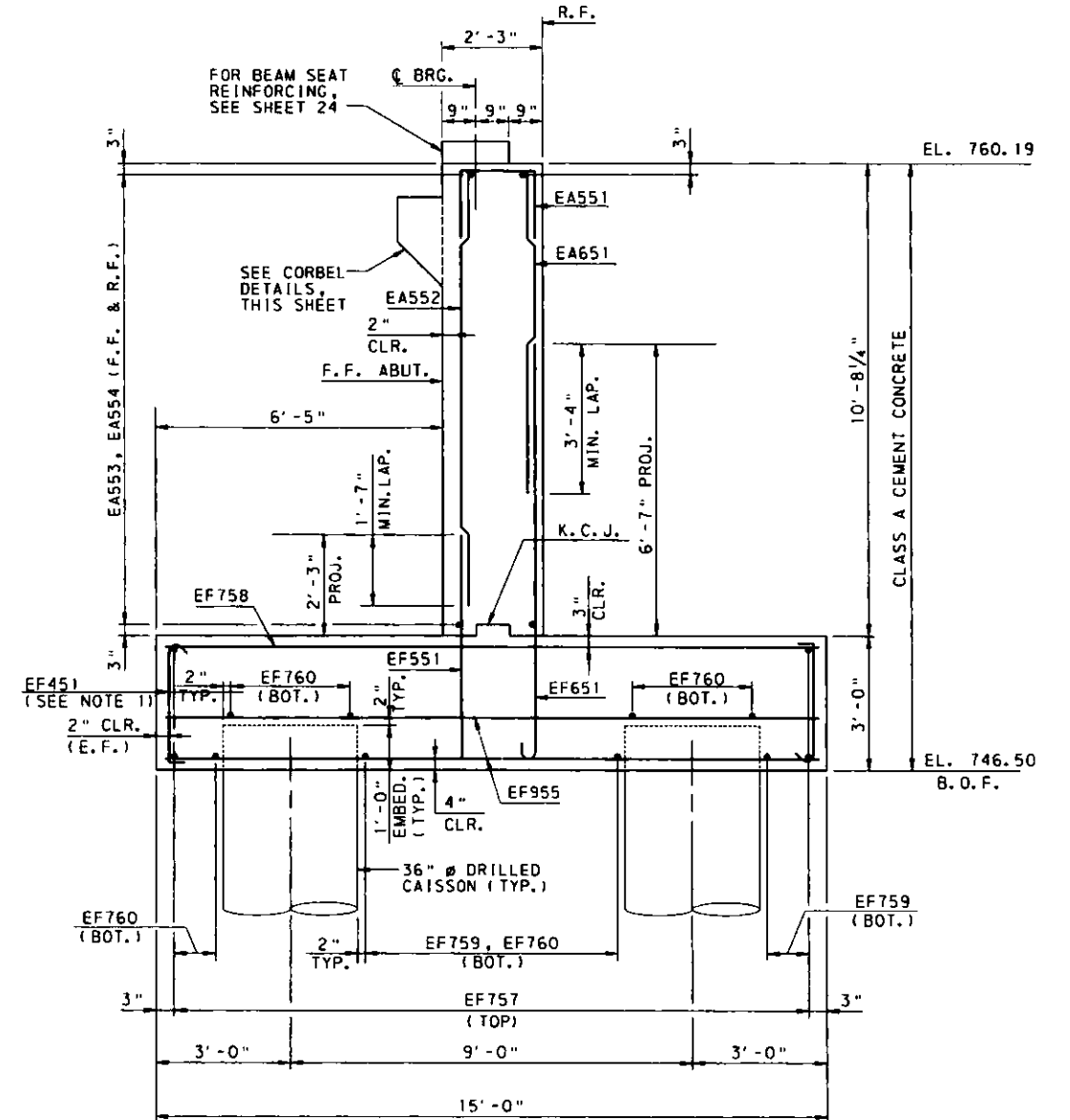
SECTION B-B
 1 0 1 2 FEET
 SCALE: 1/2" = 1'-0"



SECTION D-D
 (STEEL SLEEVE DETAIL)
 1 0 1 2 FEET
 SCALE: 1/2" = 1'-0"



SECTION E-E
 (BEAM SEAT & CORBEL DETAILS)
 N.T.S.



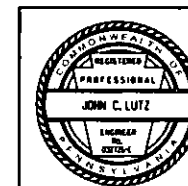
ABUTMENT 2 TYPICAL SECTION
 1 0 1 2 FEET
 SCALE: 1/2" = 1'-0"

NOTES:

1. TIE TOP AND BOTTOM MATS OF REINFORCING STEEL WITH EF451 TIE BARS AT A MAXIMUM SPACING OF 4'-0" IN BOTH DIRECTIONS. PROVIDE TIE BARS WITH 90 DEG. HOOK AT ONE END AND 135 DEG. AT THE OTHER END. ALTERNATE 90 DEG. AND 135 DEG. HOOKS AT TOP IN ALTERNATE TIES.
2. FOR REINFORCEMENT SCHEDULE, SEE SHEET 28.
3. FOR WATERPROOFING DETAILS, SEE BC-788M.
4. FOR ADDITIONAL INFORMATION OF 18" DIA. PIPE, REFER TO ROADWAY PLAN.
5. FOR BEAM SEAT PLAN AND ELEVATION, SEE SHEET 24.
6. FOR LOCATIONS OF SECTION A-A THRU D-D, SEE SHEET 17.
7. FOR LOCATION OF SECTION E-E, SEE SHEET 24.

LEGEND:

- F.F. - FRONT FACE
- R.F. - REAR FACE
- E.F. - EACH FACE
- K.C.J. - KEYED CONSTR. JOINT



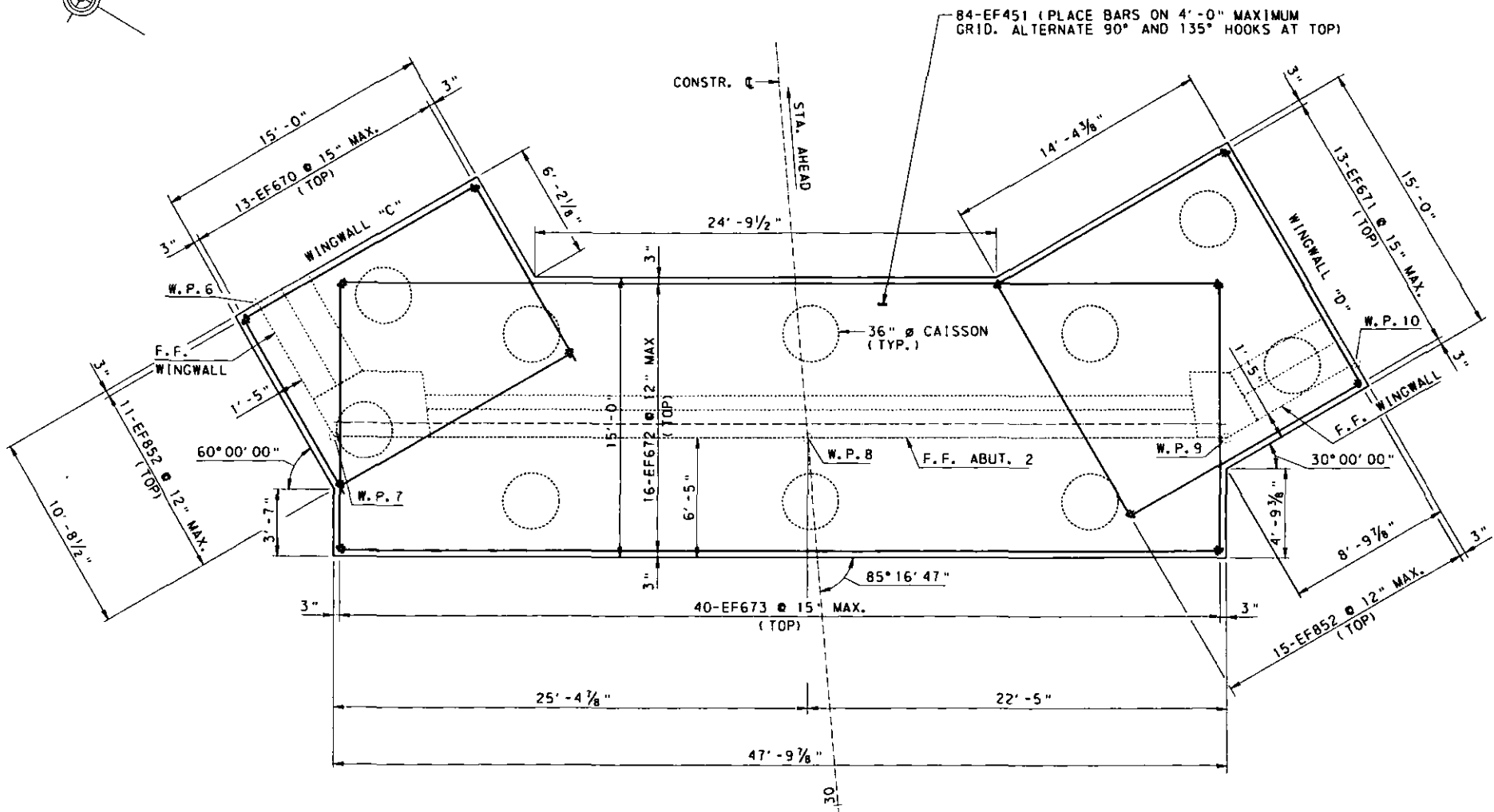
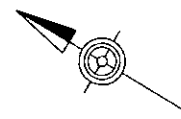
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 Pittsburg, Pennsylvania
 Department of Public Works

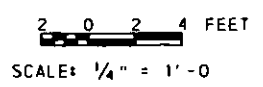
CONSTRUCTION DRAWING
 EAST PENNVIEW STREET OVER PINE CREEK
 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
ABUTMENT 2 SECTIONS AND DETAILS
 PINE CREEK BRIDGE NO II
 STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL
DATE 12/2015	SCALE	SHEET 18 OF 46

26048

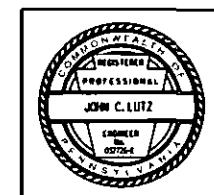


FOOTING PLAN-1
FOOTING TOP REINFORCEMENT



- NOTES:
1. FOR GENERAL NOTES, SEE SHEET 2.
 2. FOR CAISSON PLAN, SEE SHEET 22.
 3. WORK THIS SHEET WITH SHEETS 18, 20 AND 21.
 4. FOR REINFORCEMENT BAR SCHEDULE, SEE SHEET 28.

LEGEND
W.P. - WORK POINT



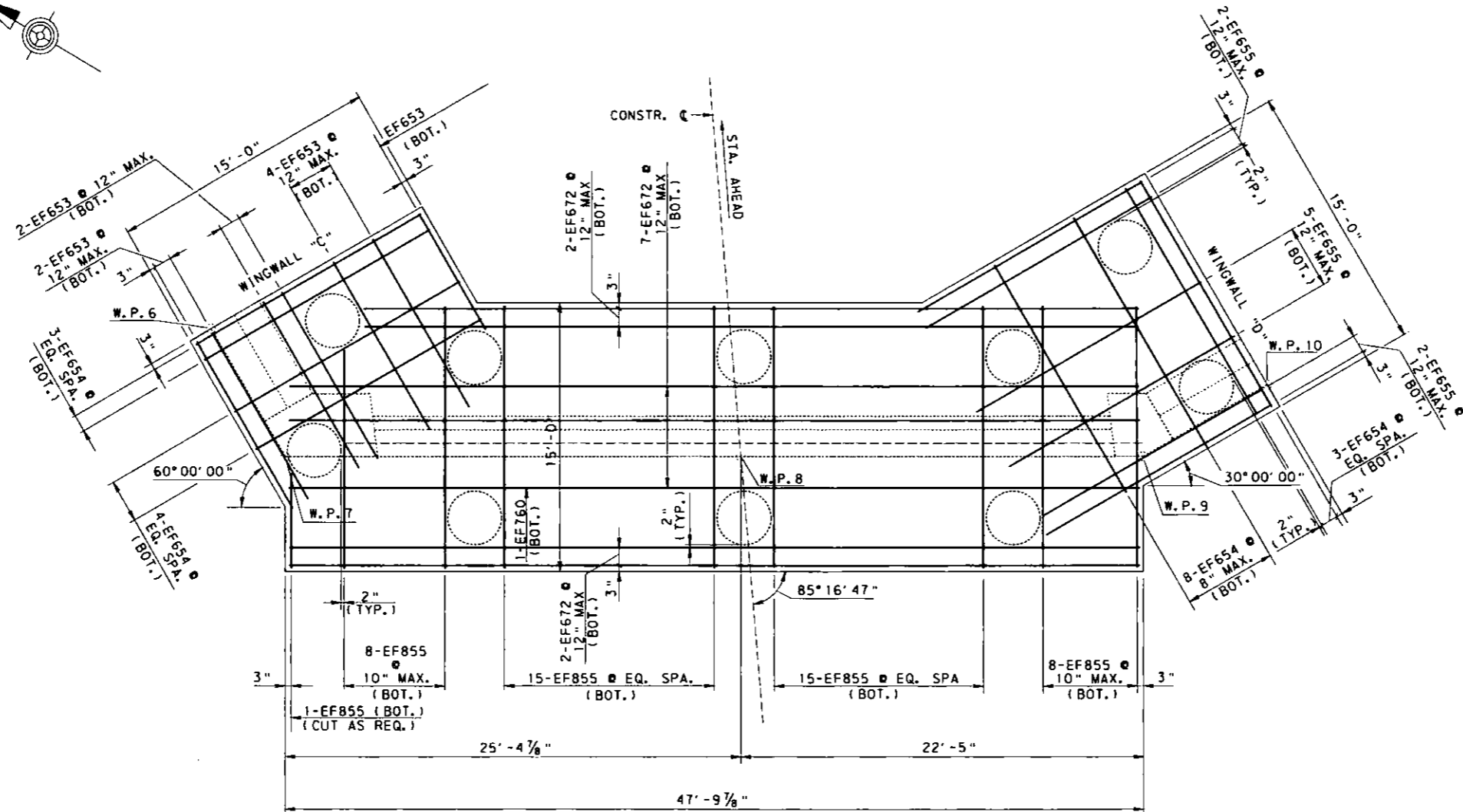
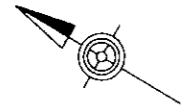
County of Allegheny Pittsburgh, Pennsylvania Department of Public Works			
CONSTRUCTION DRAWING EAST PENNVIEW STREET OVER PINE CREEK 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE ABUTMENT 2 FOOTING PLAN 1 PINE CREEK BRIDGE NO II STA 29+87.41 P111-0211			
DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 19 OF 46	

REVISIONS

3/24/2016
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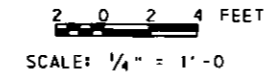
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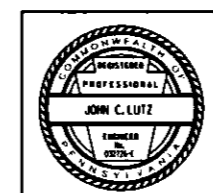


- NOTES:**
1. FOR GENERAL NOTES, SEE SHEET 2.
 2. FOR CAISSON PLAN, SEE SHEET 22.
 3. WORK THIS SHEET WITH SHEETS 18, 19 AND 21.
 4. FOR REINFORCEMENT BAR SCHEDULE, SEE SHEET 28.

FOOTING PLAN-2
FOOTING BOT. REINFORCEMENT BETWEEN CAISSONS



LEGEND
W.P. - WORK POINT
F.F. - FRONT FACE
BOT - BOTTOM

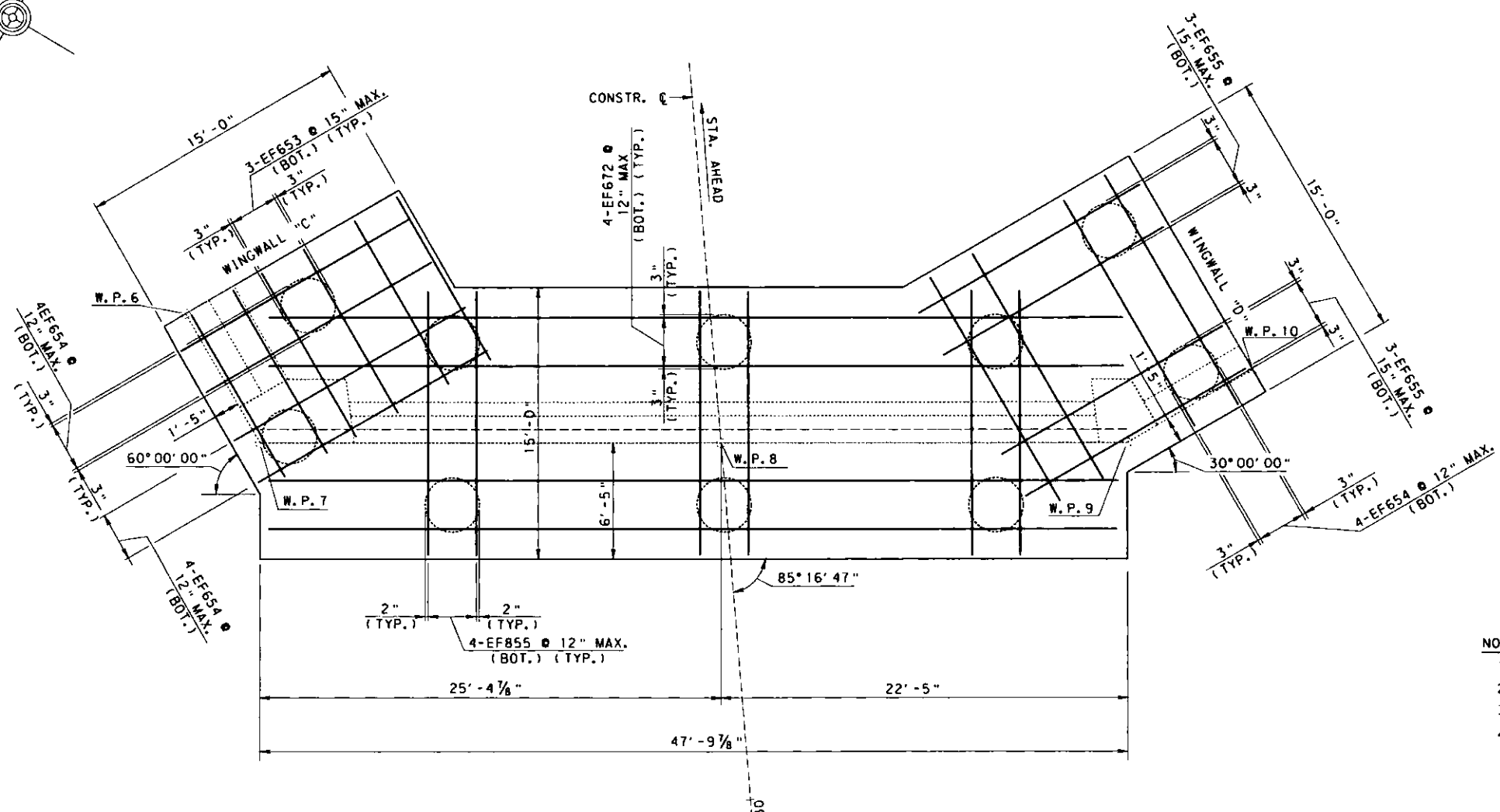
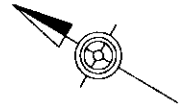


REVISIONS	

County of Allegheny Pittsburgh, Pennsylvania Department of Public Works			
CONSTRUCTION DRAWING EAST PENNVIEW STREET OVER PINE CREEK 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE ABUTMENT 2 FOOTING PLAN 2 PINE CREEK BRIDGE NO II STA 29+87.41 P111-0211			
DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 20 OF 46	

3/24/2016

J:\PROJECTS\1-00\CADD\STRUCTURE\FINAL DESIGN\PINECREEK_SMT21_ABUT 2 FOOTING PLAN-3.dgn

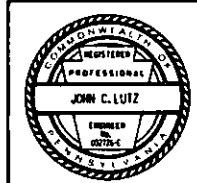


FOOTING PLAN-3
 FOOTING BOT. REINFORCEMENT ON TOP OF CAISSON

2 0 2 4 FEET
 SCALE: 1/4" = 1'-0"

- NOTES:
1. FOR GENERAL NOTES, SEE SHEET 2.
 2. FOR CAISSON PLAN, SEE SHEET 22.
 3. WORK THIS SHEET WITH SHEETS 18, 19 AND 20.
 4. FOR REINFORCEMENT BAR SCHEDULE, SEE SHEET 28.

LEGEND:
 W.P. - WORK POINT
 F.F. - FRONT FACE
 BOT. - BOTTOM



REVISIONS	

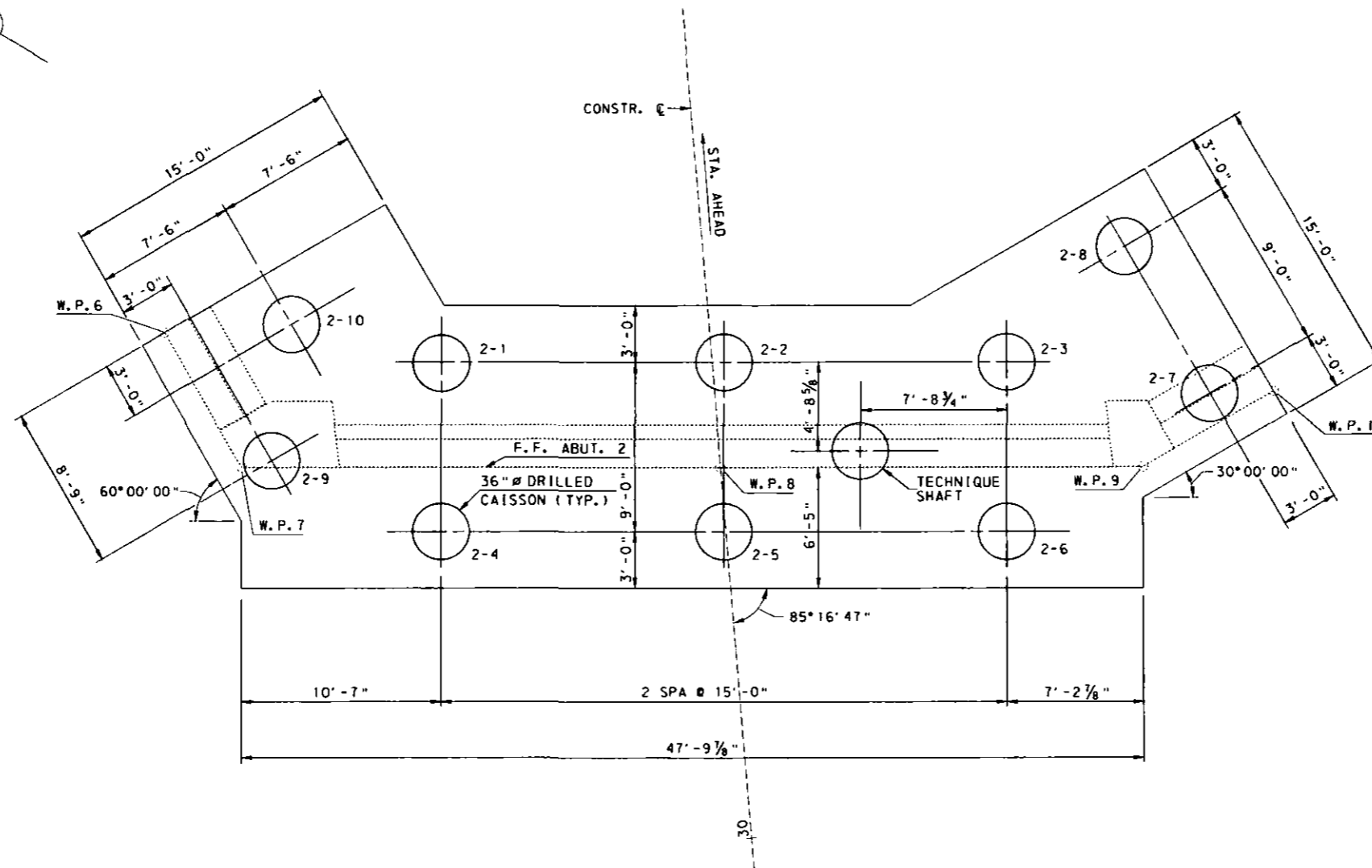
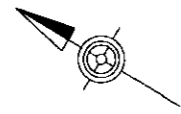
County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 EAST PENNVIEW STREET OVER PINE CREEK
 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
 ABUTMENT 2 FOOTING PLAN 3
 PINE CREEK BRIDGE NO II
 STA 29+87.41 P111-0211

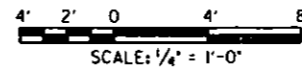
DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 21 OF 46	

3/24/2016

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CAISSON PLAN

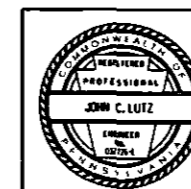


NOTES:

- 1. FOR GENERAL NOTES, SEE SHEET 2.
- 2. FOR CAISSON DETAILS, SEE SHEET 23.

LEGEND:

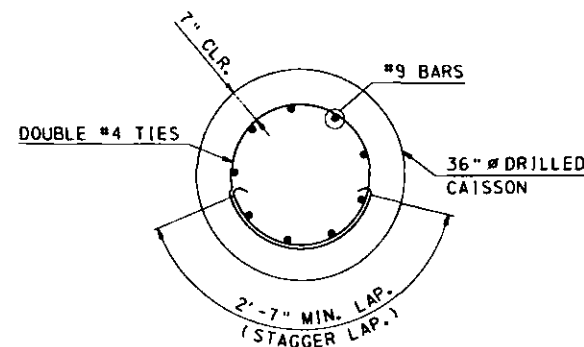
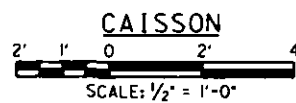
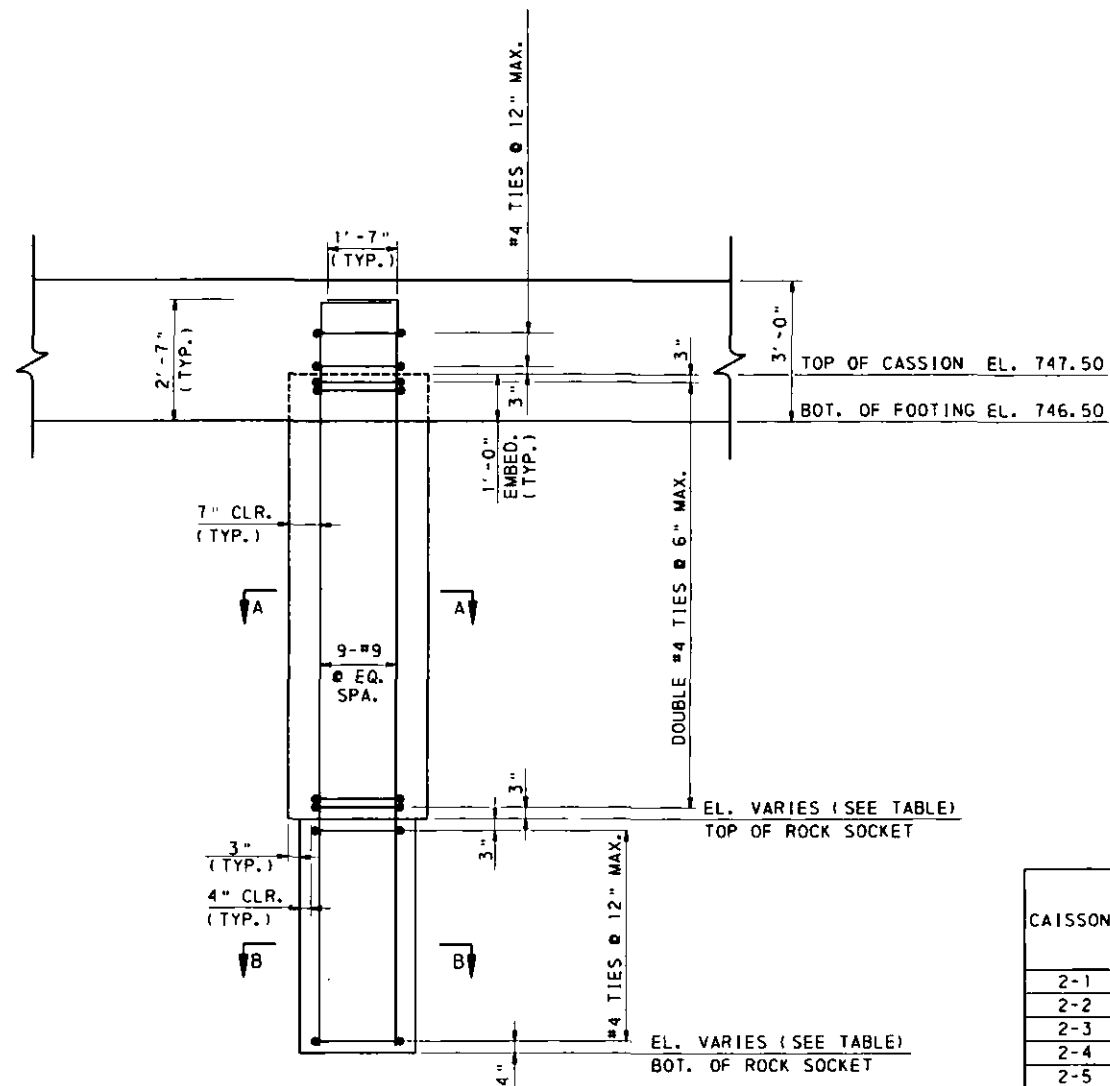
W.P. - WORK POINT



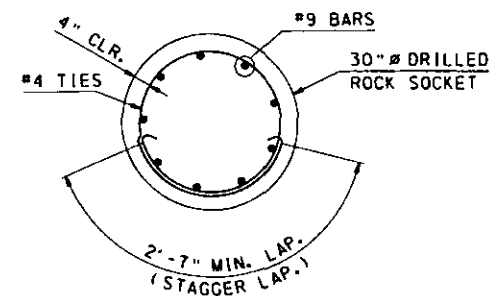
REVISIONS		County of Allegheny Pittsburgh, Pennsylvania Department of Public Works	
		CONSTRUCTION DRAWING EAST PENNVIEW STREET OVER PINE CREEK 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE ABUTMENT 2 CAISSON PLAN PINE CREEK BRIDGE NO II STA 29+87.41 PI11-0211	
DES. MRM	DRW. SRC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 22 OF 46	

3/24/2016

J:\PROJECTS\1-00\CAISSON\1-00\CAISSON\1-00\CAISSON DETAIL.SHEET



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



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

CAISSON	TOP OF CAISSON ELEV. (ft)	TOP OF ROCK SOCKET ELEV. (ft) (*)	BOTTOM OF ROCK SOCKET ELEV. (ft)	ESTIMATED TEST HOLE DEPTH (ft)
2-1	747.5	738.0	733.0	23.5
2-2	747.5	738.0	733.0	23.5
2-3	747.5	738.0	733.0	23.5
2-4	747.5	738.0	733.0	23.5
2-5	747.5	738.0	733.0	23.5
2-6	747.5	738.0	733.0	23.5
2-7	747.5	738.0	733.0	23.5
2-8	747.5	738.0	733.0	23.5
2-9	747.5	743.5	738.5	18.0
2-10	747.5	743.5	738.5	18.0

NOTE: * TOP OF ROCK ELEVATIONS ESTIMATED FROM BORING DATA. CONFIRM ELEVATIONS WITH TEST HOLES. PROVIDE MIN. 5'-0" ROCK SOCKET.

NOTES:

- FOR GENERAL NOTES, SEE SHEET 2.
- FOR CAISSON PLAN, SEE SHEET 22.
- CAISSON REINFORCEMENT SHALL BE PAID FOR UNDER CAISSON ITEM.
- DO NOT CONSTRUCT REINFORCED CAGES UNTIL CAISSON LENGTHS ARE APPROVED.
- PROVIDE TEMPORARY CASING FOR THE PORTION OF THE DRILLED CAISSON IN THE SOIL OVERBURDEN AND WEATHERED ROCK. THE CASING IS TO BE WITHDRAWN AS THE CONCRETE IS PLACED.

County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
ABUTMENT 2 CAISSON DETAILS
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

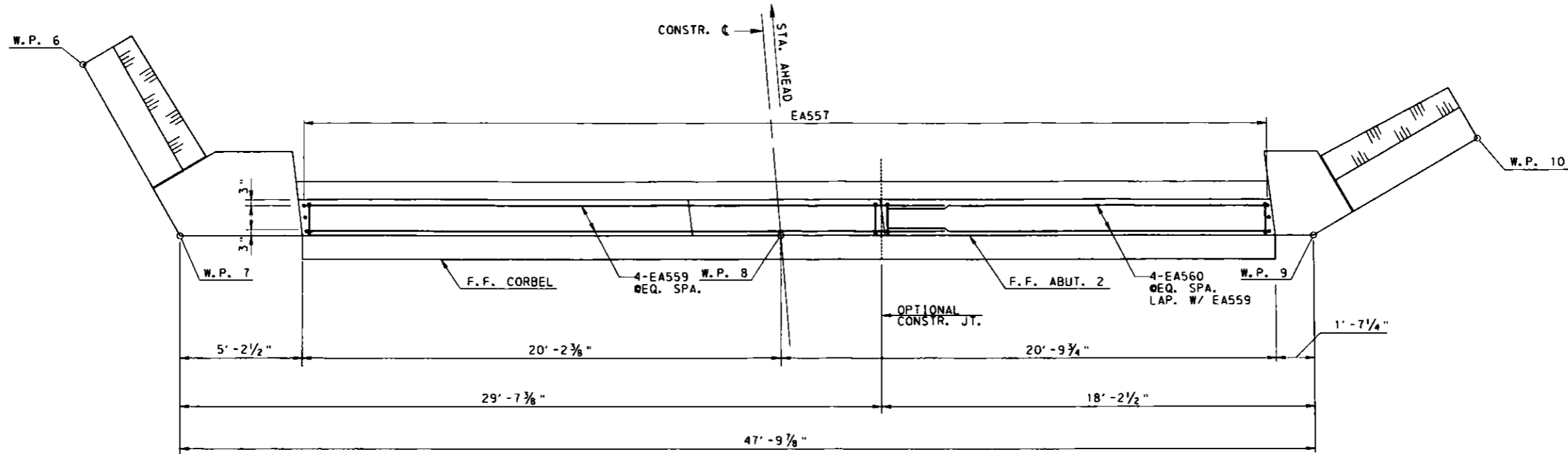
DES. MRM	DRW. SRC	CHK. JCL
DATE 12/2015	SCALE	SHEET 23 OF 46

26048



REVISIONS

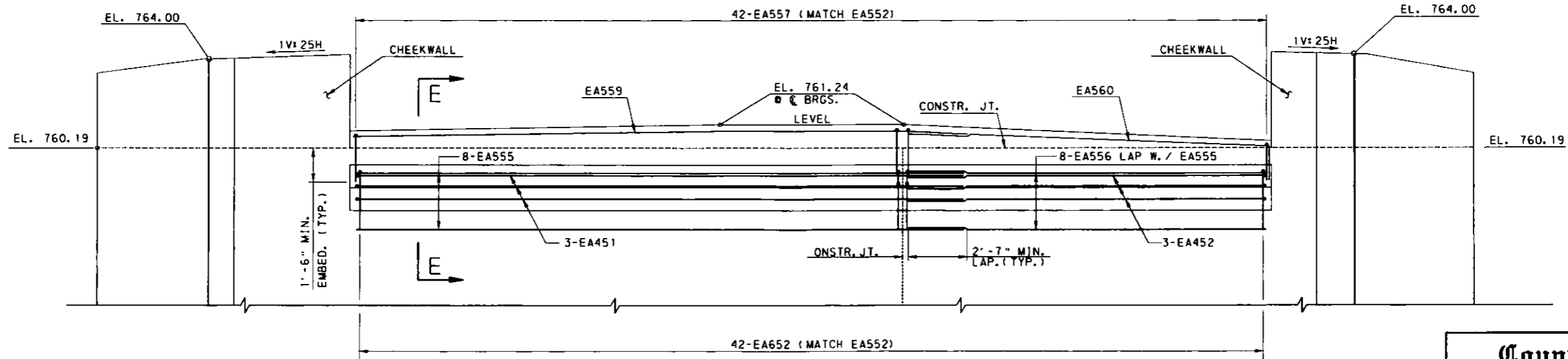
J:\PROJ\16051-00\CADD\STRUCTURE\FINAL DESIGN\PINECREEK_SHT24_ABUT 2 BEAM SEAT CORBEL PLAN AND ELEVATION.dgn 3/24/2016



PLAN
 1 0 1 2 3 FEET
 SCALE: 3/8" = 1'-0"

NOTES:

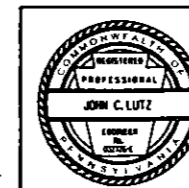
1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR BEAM SEAT ELEVATIONS, SEE SHEET 25.
3. FOR SECTION E-E, SEE SHEET 18.
4. FOR REINFORCEMENT BAR SCHEDULE, SEE SHEET 28.



ELEVATION
 (LOOKING AHEAD STATIONS)
 1 0 1 2 3 FEET
 SCALE: 3/8" = 1'-0"

LEGEND:

- F.F. - FRONT FACE
- R.F. - REAR FACE
- E.F. - EACH FACE
- K.C.J. - KEYED CONSTR. JOINT



REVISIONS	

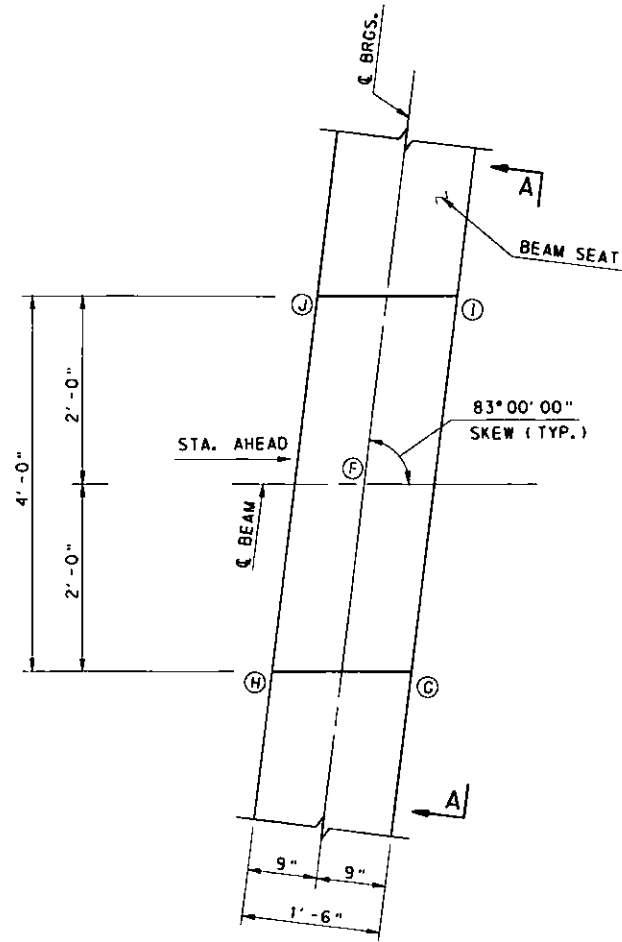
County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 EAST PENNVIEW STREET OVER PINE CREEK
 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
 ABUTMENT 2 BEAM SEAT
 PLAN AND ELEVATION
 PINE CREEK BRIDGE NO II
 STA 29+87.41 P111-0211

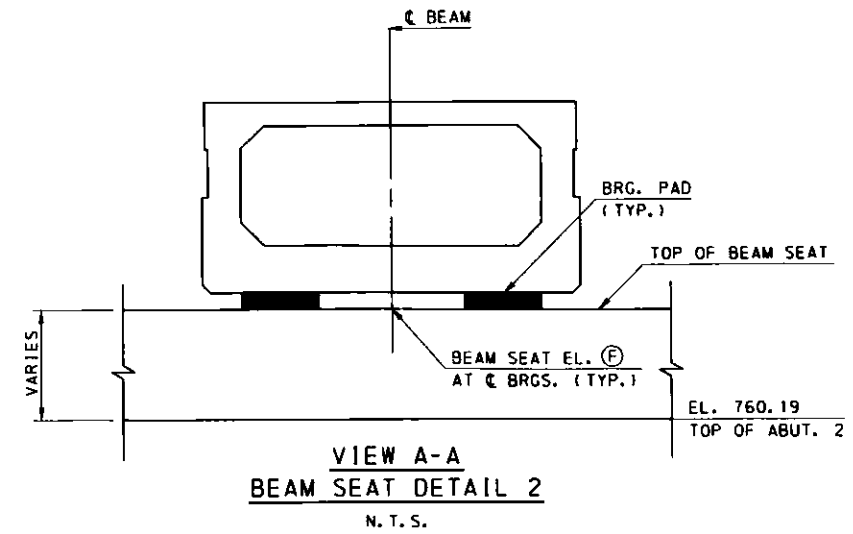
DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 24 OF 46	

3/24/2016

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BEAM SEAT DETAIL 1
N. T. S.

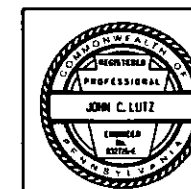


VIEW A-A
BEAM SEAT DETAIL 2
N. T. S.

ABUTMENT 2 BEAM SEAT LOCATION AND ELEVATION TABLE						
BEAM NO.	C BEAM OFFSET *	F	I	J	G	H
①	18' - 2 1/8" LT.	760.77	760.70	760.70	760.84	760.84
②	14' - 1 1/4" LT.	760.91	760.84	760.84	760.98	760.98
③	10' - 0 3/8" LT.	761.06	760.98	760.98	761.13	761.13
④	5' - 11 1/2" LT.	761.20	761.13	761.13	761.27	761.27
⑤	1' - 10 3/8" LT.	761.27	761.27	761.27	761.27	761.27
⑥	2' - 2 1/4" RT.	761.27	761.27	761.27	761.27	761.27
⑦	6' - 3 3/8" RT.	761.18	761.27	761.27	761.09	761.09
⑧	10' - 4" RT.	761.00	761.09	761.09	760.91	760.91
⑨	14' - 4 3/4" RT.	760.82	760.91	760.91	760.73	760.73
⑩	18' - 5 5/8" RT.	760.64	760.73	760.73	760.55	760.55

NOTE:
* C BEAM OFFSET IS MEASURED FROM THE CONSTR. C, ALONG THE C OF BEARINGS, LOOKING AHEAD STATIONS.

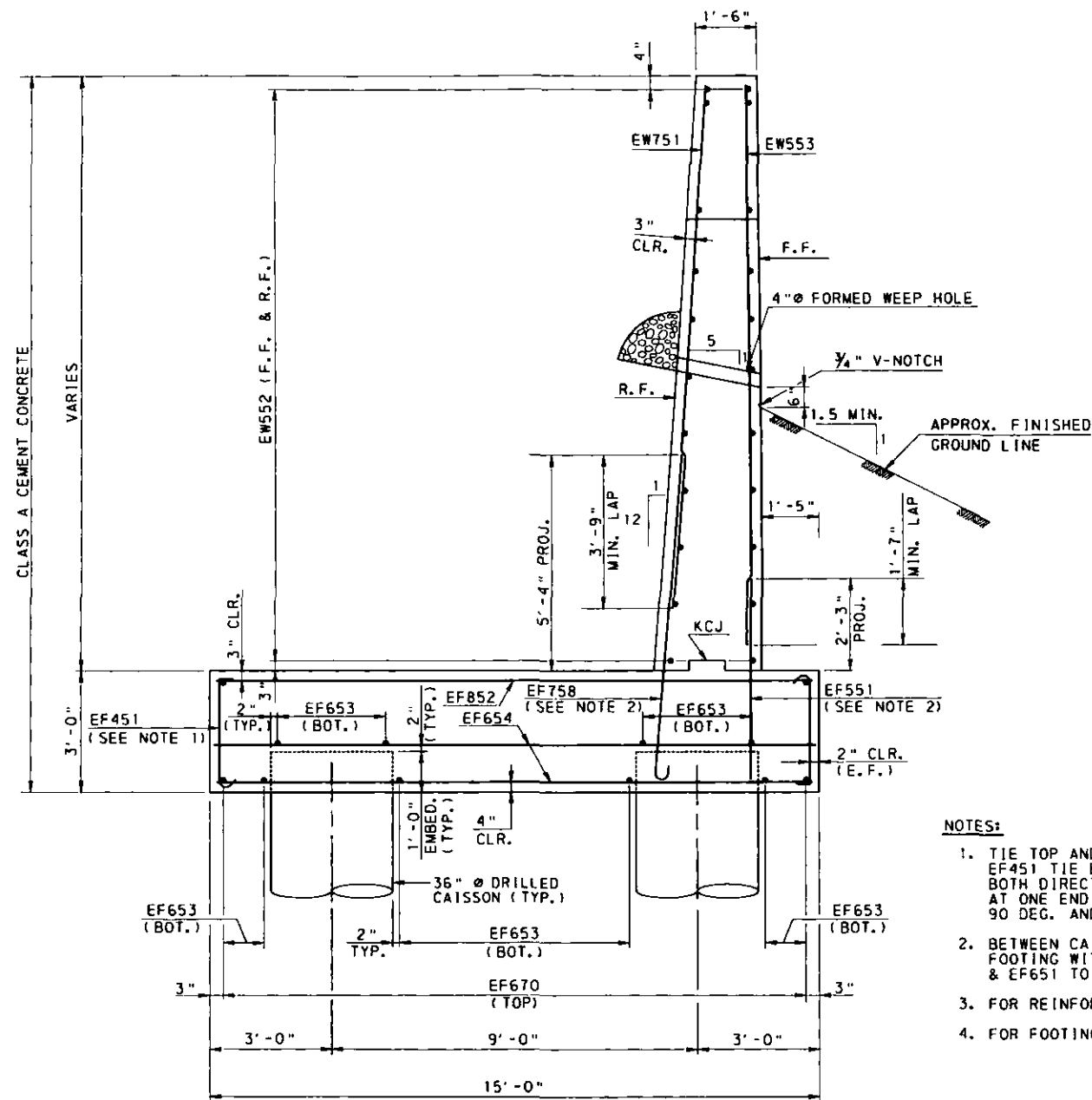
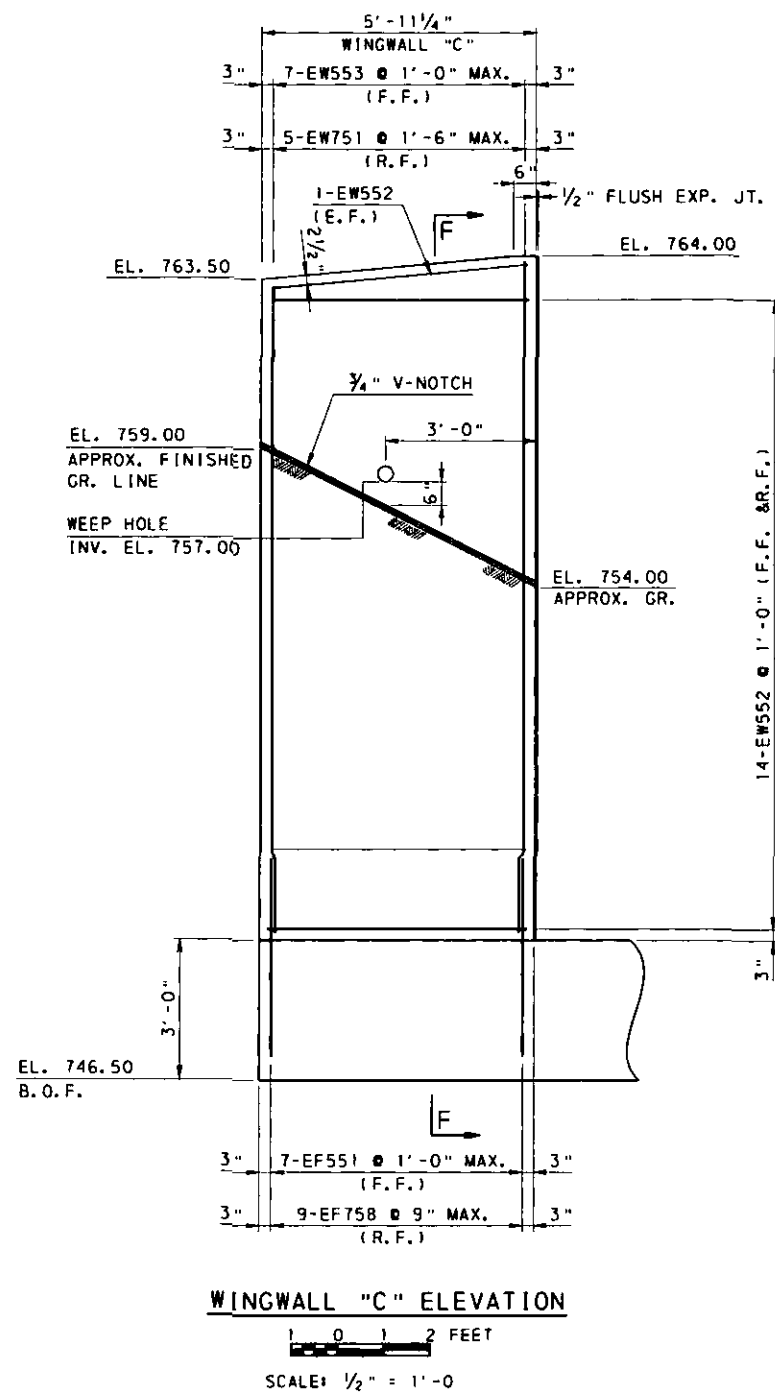
- NOTES:**
1. FOR BEAM SEAT REINFORCEMENT DETAILS, SEE SHEET 24.
 2. FOR ELASTOMERIC BEARING DETAIL, SEE SHEET 33.



<p>County of Allegheny Pittsburgh, Pennsylvania Department of Public Works</p>		<p>CONSTRUCTION DRAWING</p>	
		<p>EAST PENNVIEW STREET OVER PINE CREEK 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE ABUTMENT 2 BEAM SEAT DETAILS AND ELEVATION TABLE PINE CREEK BRIDGE NO II STA 29+87.41 P111-0211</p>	
DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 25 OF 46	

3/24/2016

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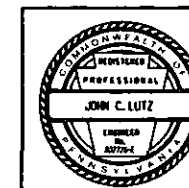


NOTES:

1. TIE TOP AND BOTTOM MATS OF REINFORCING STEEL WITH EF451 TIE BARS AT A MAXIMUM SPACING OF 4'-0" IN BOTH DIRECTIONS. PROVIDE TIE BARS WITH 90 DEG. HOOK AT ONE END AND 135 DEG. AT THE OTHER END. ALTERNATE 90 DEG. AND 135 DEG. HOOKS AT TOP IN ALTERNATE TIES.
2. BETWEEN CAISSON PLACE EF551 & EF651 TO THE BOTTOM OF FOOTING WITH 4" CLR. ON TOP OF CAISSON, PLACE EF551 & EF651 TO THE TOP OF CAISSON WITH 2" CLR.
3. FOR REINFORCEMENT SCHEDULE, SEE SHEET 28.
4. FOR FOOTING REINFORCEMENT PLAN, SEE SHEETS 19 THRU 21.

LEGEND:

F.F. - FRONT FACE
 R.F. - REAR FACE
 E.F. - EACH FACE
 B.O.F. - BOTTOM OF FOOTING
 KCL - KEYED CONSTRUCTION JOINT



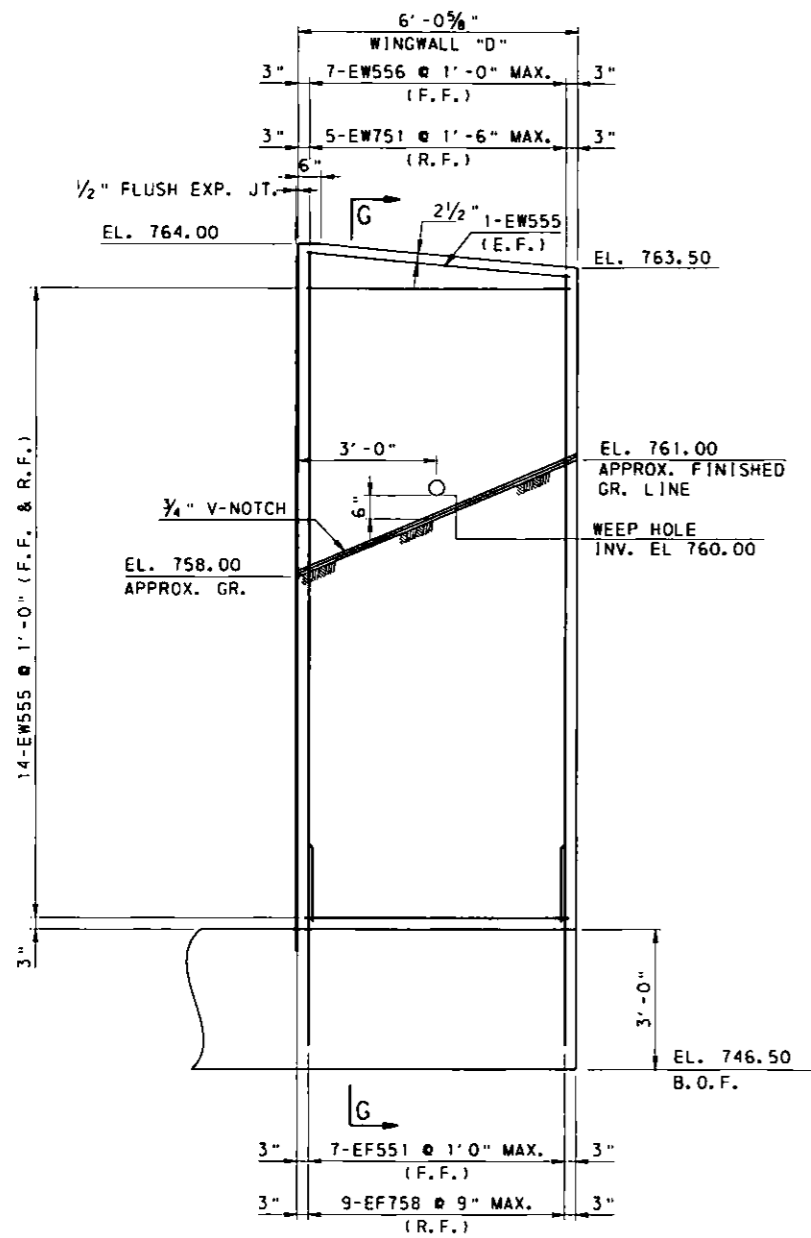
County of Allegheny
 Hillsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 EAST PENNVIEW STREET OVER PINE CREEK
 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
ABUTMENT 2 WINGWALL "C"
 PINE CREEK BRIDGE NO II
 STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 26 OF 46	

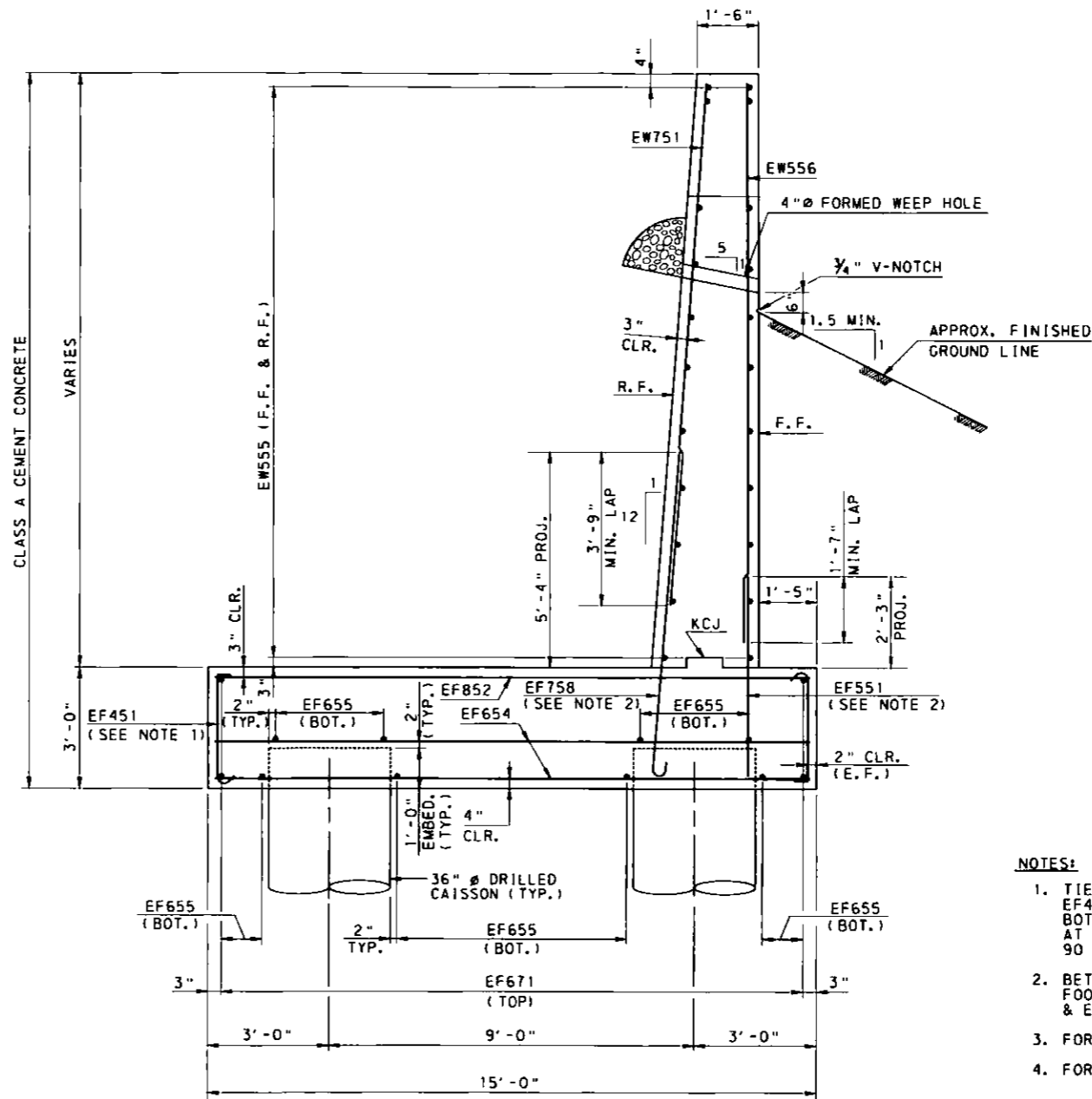
3/24/2016

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WINGWALL "D" ELEVATION

1 0 2 FEET
 SCALE: 1/2" = 1'-0"



SECTION G-G

1 0 2 FEET
 SCALE: 1/2" = 1'-0"

NOTES:

1. TIE TOP AND BOTTOM MATS OF REINFORCING STEEL WITH EF451 TIE BARS AT A MAXIMUM SPACING OF 4'-0" IN BOTH DIRECTIONS. PROVIDE TIE BARS WITH 90 DEG. HOOK AT ONE END AND 135 DEG. AT THE OTHER END. ALTERNATE 90 DEG. AND 135 DEG. HOOKS AT TOP IN ALTERNATE TIES.
2. BETWEEN CAISSON PLACE EF551 & EF651 TO THE BOTTOM OF FOOTING WITH 4" CLR; ON TOP OF CAISSON, PLACE EF51 & EF651 TO THE TOP OF CAISSON WITH 2" CLR.
3. FOR REINFORCEMENT SCHEDULE, SEE SHEET 28.
4. FOR FOOTING REINFORCEMENT PLAN, SEE SHEETS 19 THRU 21.

LEGEND:

- F.F. - FRONT FACE
- R.F. - REAR FACE
- E.F. - EACH FACE
- B.O.F. - BOTTOM OF FOOTING



REVISIONS

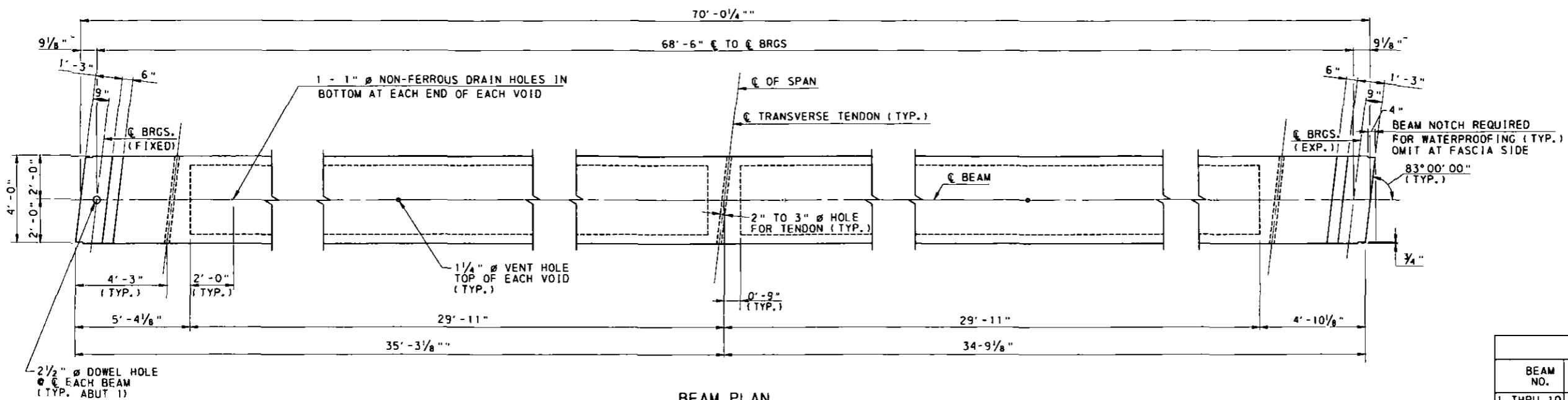
County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 EAST PENNVIEW STREET OVER PINE CREEK
 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
 ABUTMENT 2 WINGWALL "D"
 PINE CREEK BRIDGE NO II
 STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 27 OF 46	

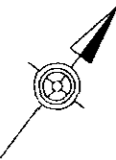
3/24/2016

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BEAM PLAN

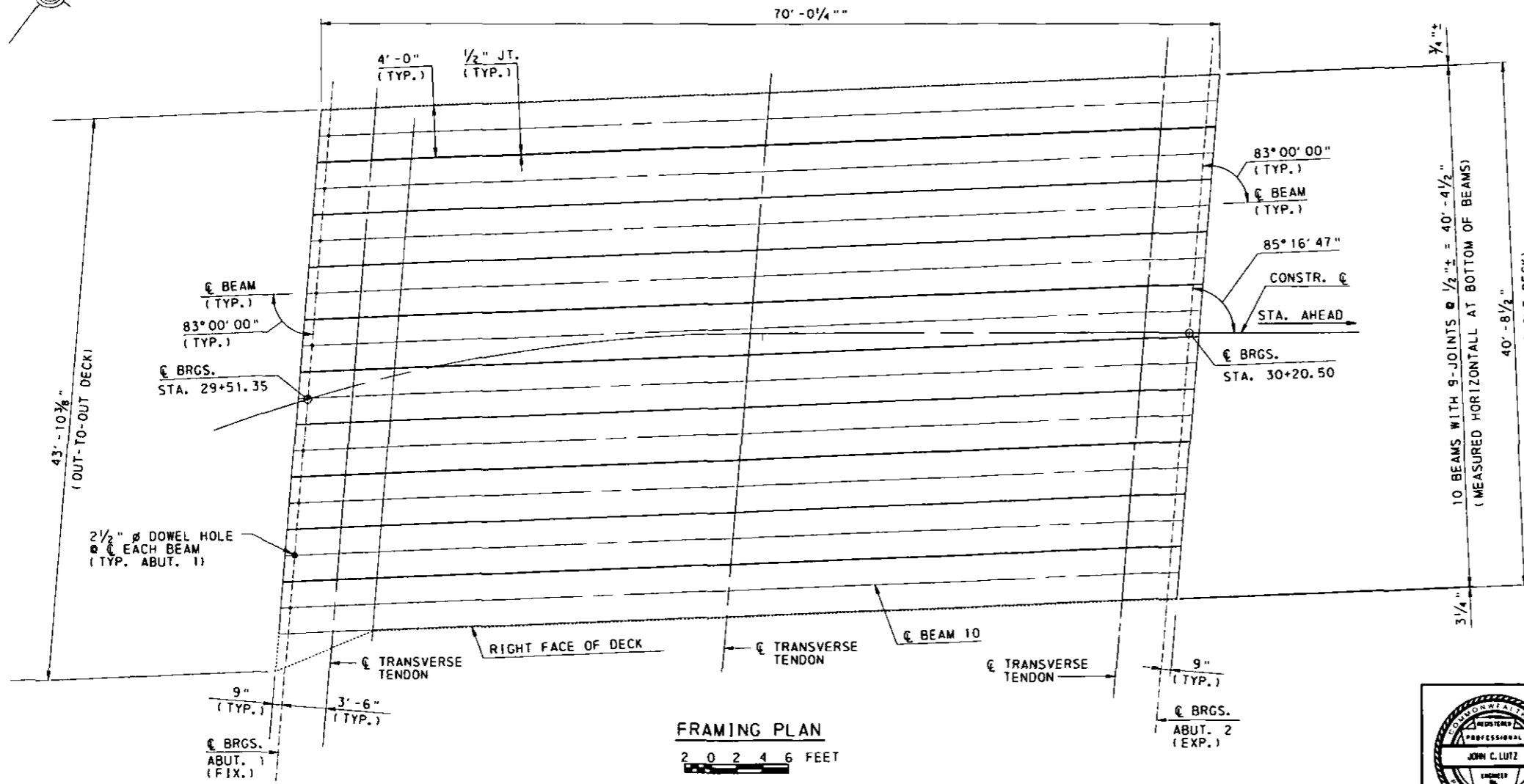
1 0 1 2 3 FEET
SCALE: 3/8" = 1'-0"



BEAM SCHEDULE			
BEAM NO.	BEAM ANGLE	BEAM LENGTH	
		C-C BRG.	TOTAL
1 THRU 10	83°00'00"	68'-6"	70'-0 1/4"

NOTES:

1. BEAM LENGTH MEASURES AS HORIZONTAL DIMENSION ALONG C BEAM.
2. BEAM ANGLE MEASURED FROM C BEAM TO C BRG. IN COUNTER CLOCKWISE DIRECTION.

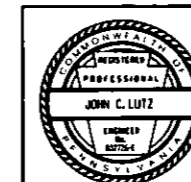


FRAMING PLAN

2 0 2 4 6 FEET
SCALE: 3/16" = 1'-0"

NOTES:

1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR WATERPROOFING DETAIL, SEE BC-788M.
3. FOR MISCELLANEOUS PRESTRESS DETAILS, SEE BC-775M.



County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
FRAMING PLAN

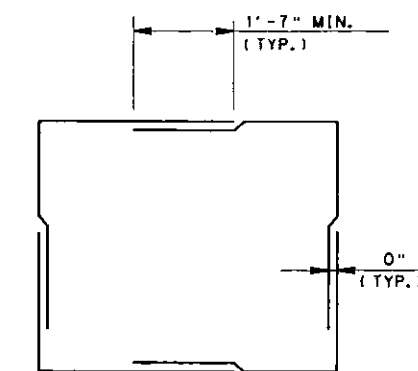
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 29 OF 46	

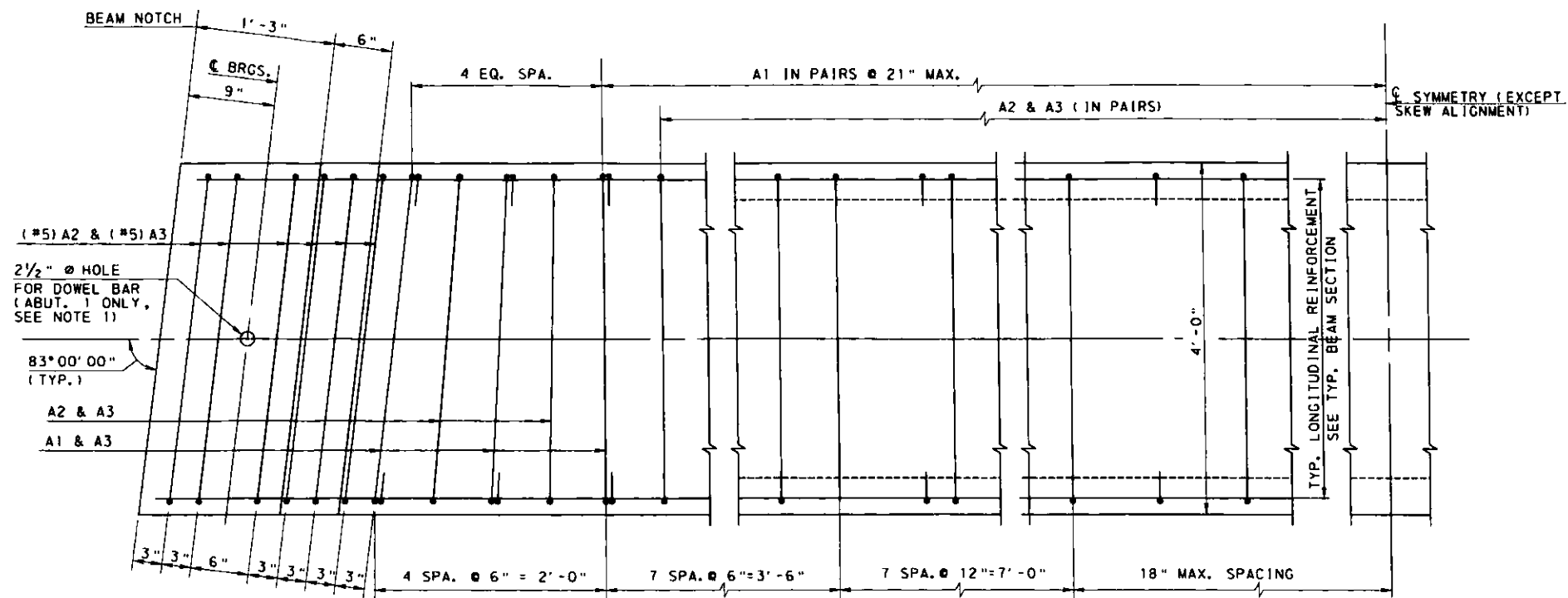
REVISIONS	

3/24/2016

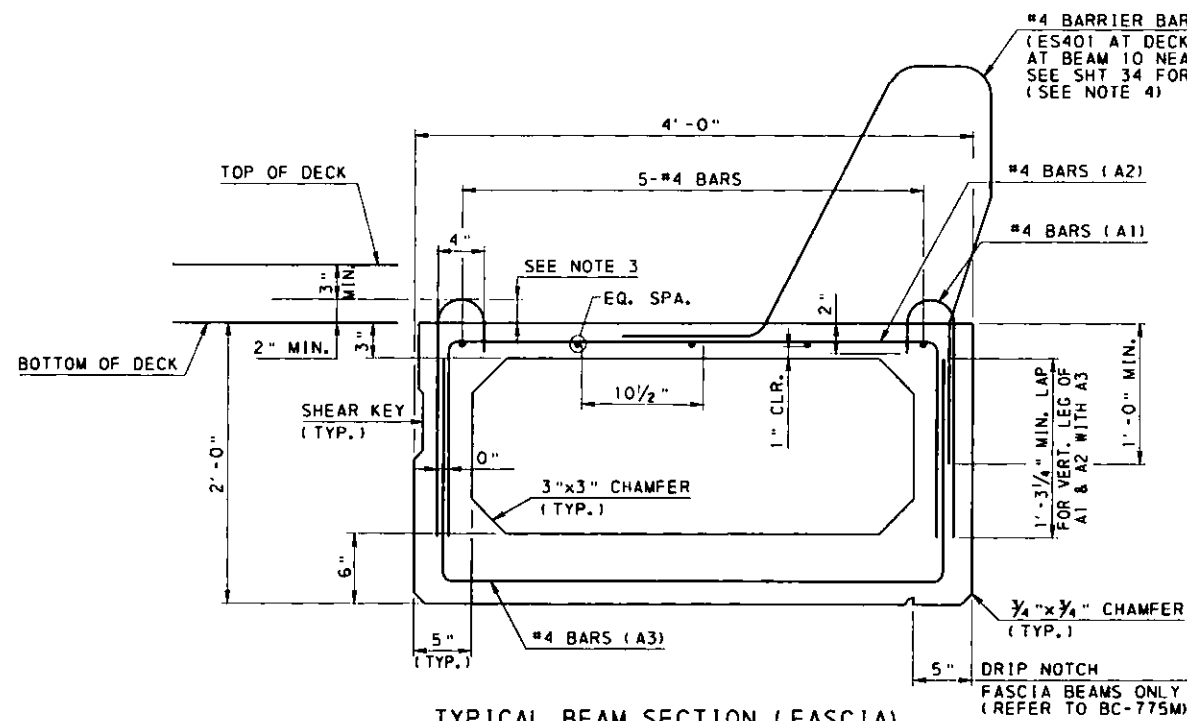
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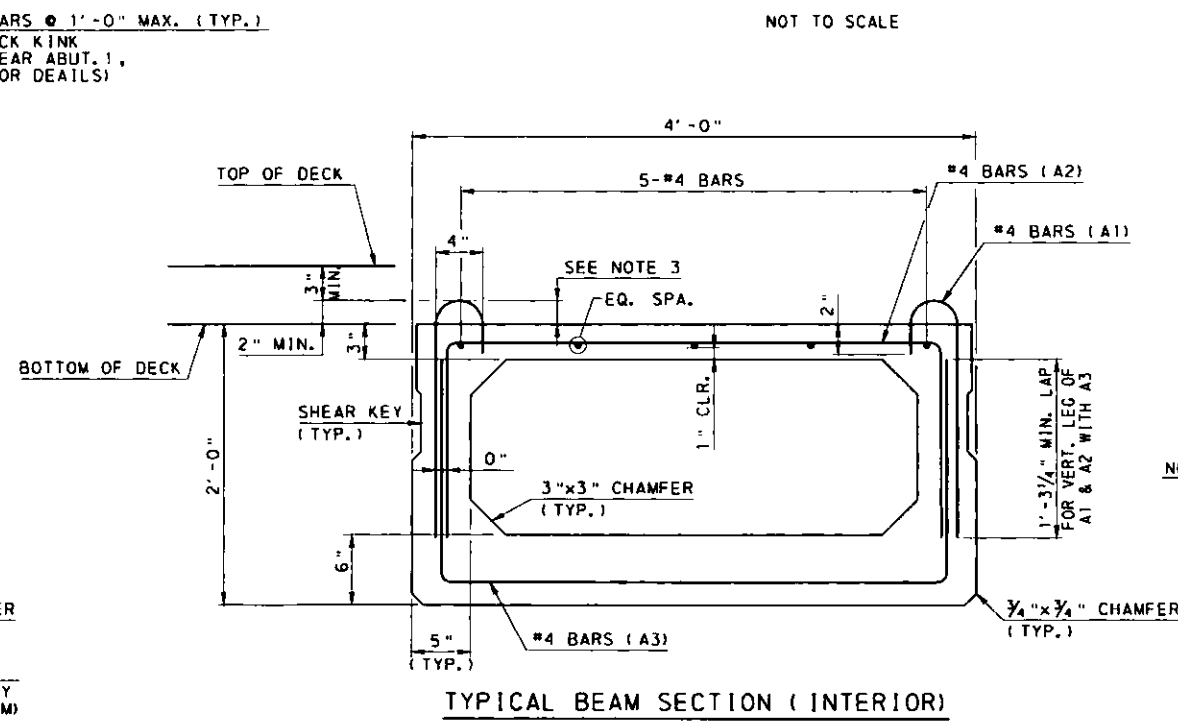
**ALTERNATE END BLOCK
REINF. SPLICING DETAIL**
NOT TO SCALE



**TRANSVERSE REINFORCEMENT
PLACEMENT - PLAN**
NOT TO SCALE



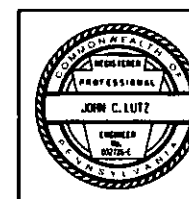
TYPICAL BEAM SECTION (FASCIA)
SCALE: 1 1/2" = 1'-0"



TYPICAL BEAM SECTION (INTERIOR)
SCALE: 1 1/2" = 1'-0"

NOTE:
1. ADJUST REINFORCEMENT TO MISS DOWEL HOLE.

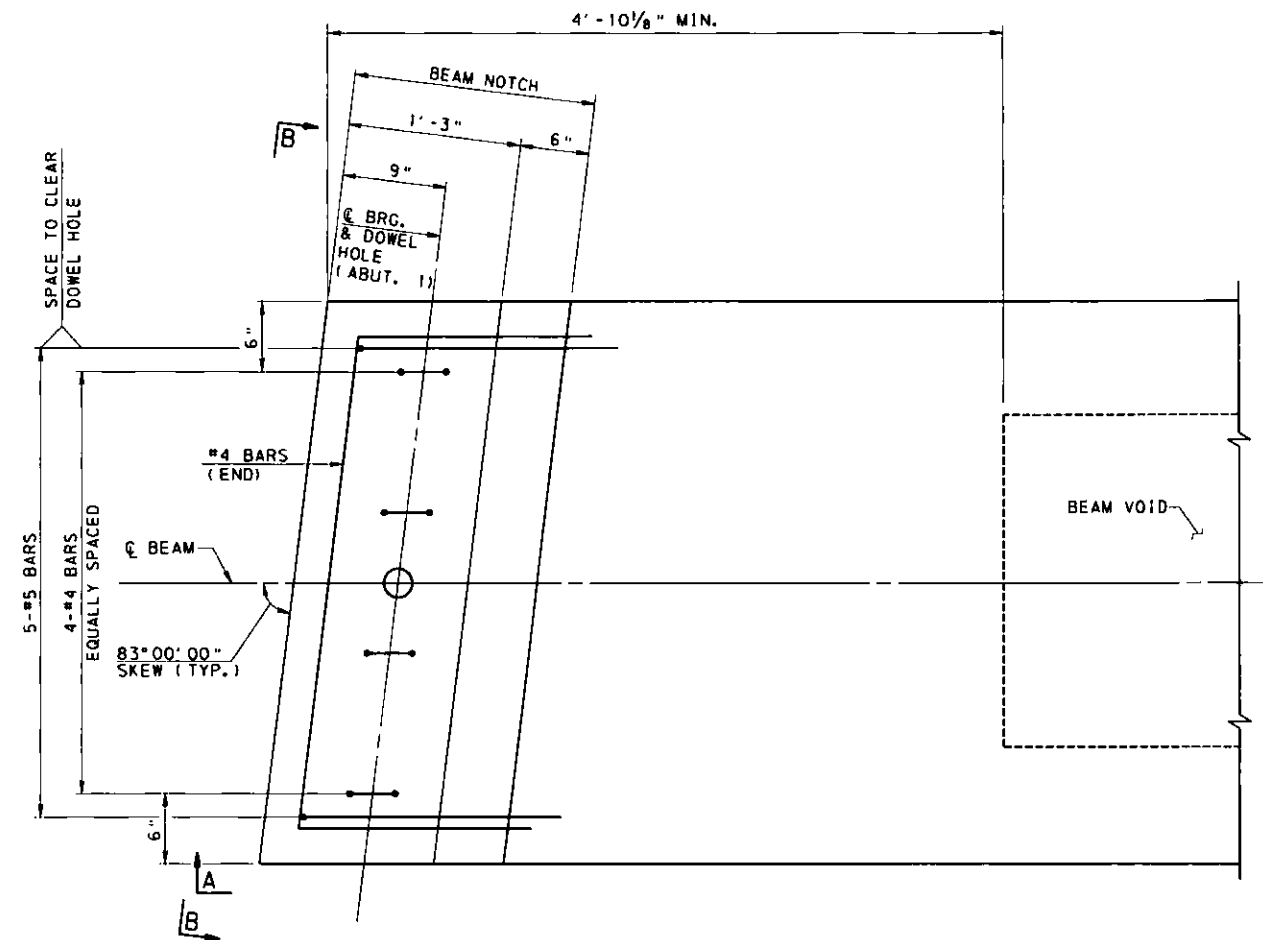
- NOTES:
1. SEE TYPICAL STRAND CONFINEMENT DETAIL ON SHEET 32.
 2. EPOXY COAT ALL REBARS FOR A DISTANCE OF 9'-0" FROM BEAM BOTH ENDS.
 3. TO BE DETAILED ON THE SHOP DRAWINGS.
 4. WITHIN 10' AT THE END OF THE DECK, #4 BARRIER BARS & ES401 SPACED AT 6", SEE SHEET 37.



County of Allegheny Hillsburgh, Pennsylvania Department of Public Works		CONSTRUCTION DRAWING EAST PENNVIEW STREET OVER PINE CREEK 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE BOX BEAM FABRICATION DETAILS-1 PINE CREEK BRIDGE NO II STA 29+87.41 P111-0211			
		DES. MRM	DRW. ADC	CHK. JCL	26048
REVISIONS		DATE 12/2015	SCALE	SHEET 30 OF 46	

3/24/2016

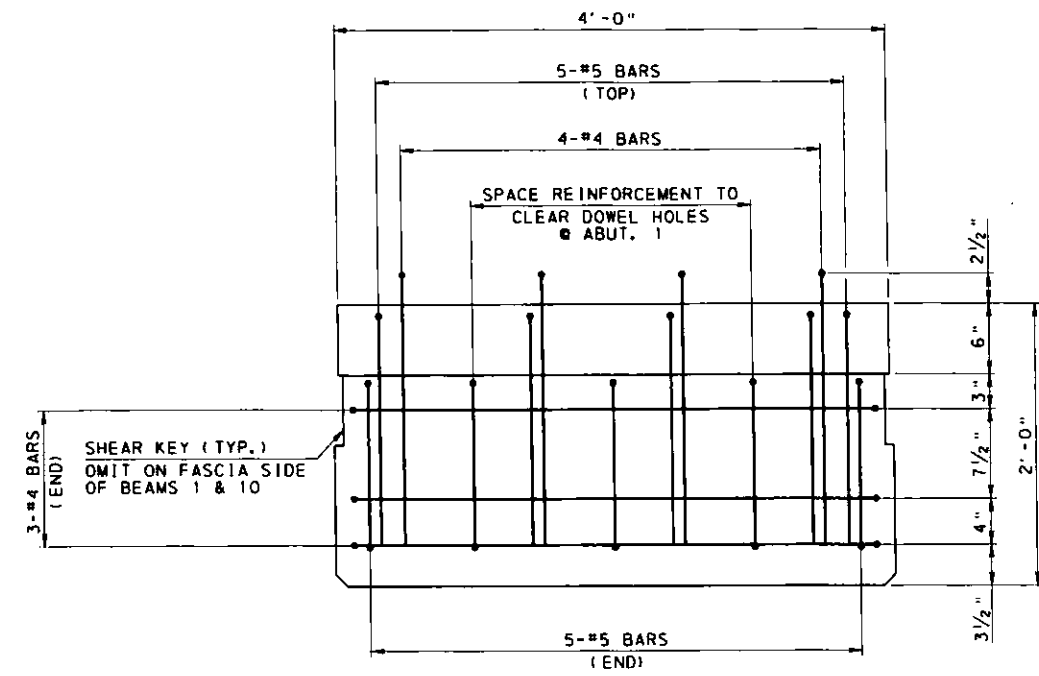
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PLAN - BEAM END LONGITUDINAL REIN.

6 0 6 INCHES

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



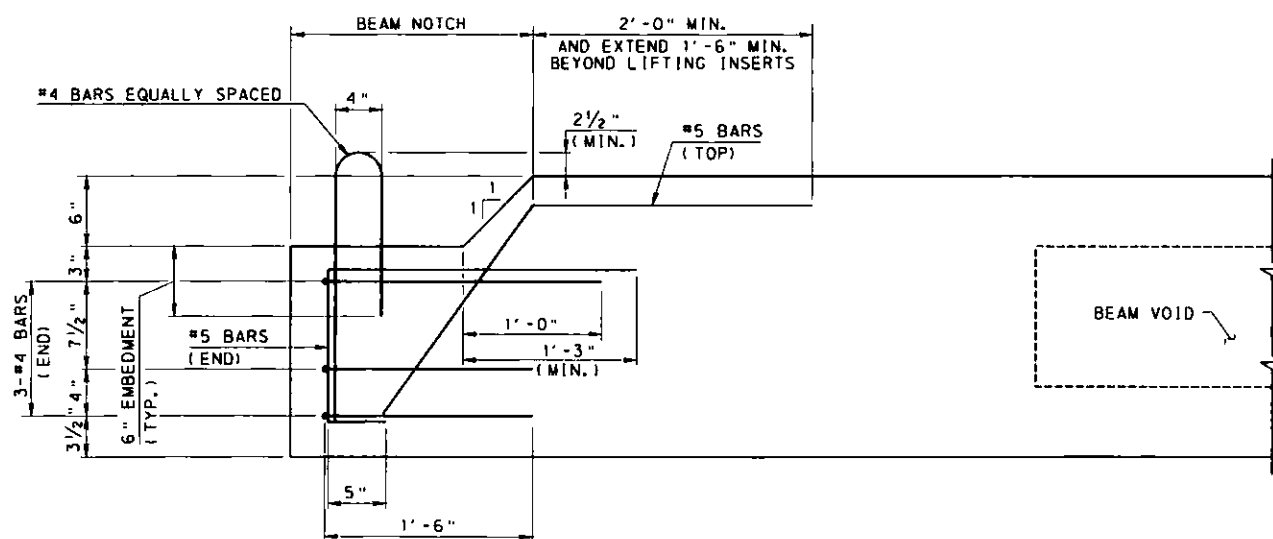
VIEW B-B

6 0 6 INCHES

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

NOTE:

1. FOR GENERAL NOTES, SEE SHEET 2.



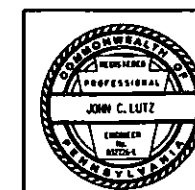
VIEW A-A END ELEVATION

6 0 6 INCHES

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

County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
BOX BEAM FABRICATION
DETAILS-2
PINE CREEK BRIDGE NO II
STA 29+87.41 PI11-0211

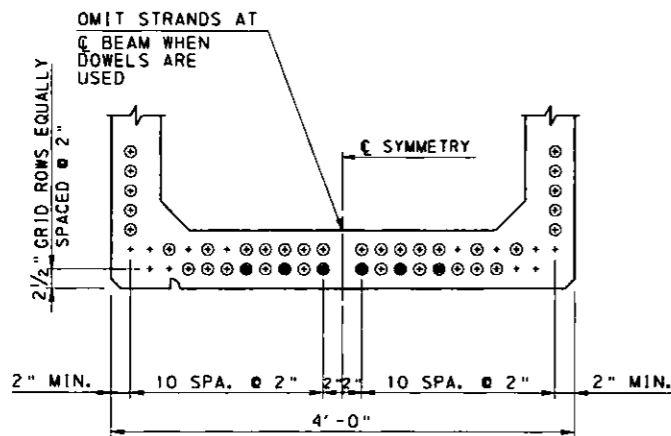


REVISIONS	

DES. MRM	DRW. ADC	CHK. JCL
DATE 12/2015	SCALE	SHEET 31 OF 46

26048

3/24/2016 J:\PROJ\76051-00\CADD\Structure\INAL DESIGN\IN\CREEK_SHT32_STRAND TABLES.dgn



LEGEND:

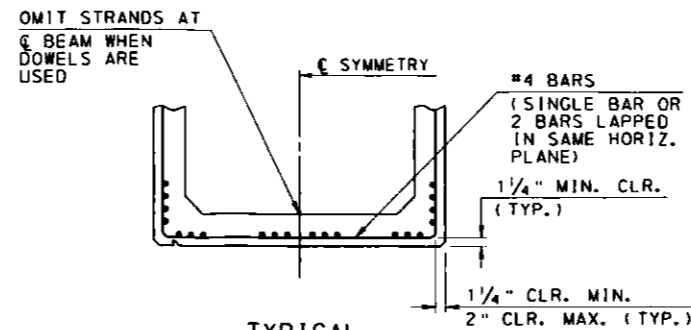
- - DEBOND FOR 2'-6" FROM C OF BRG.
- + - POSSIBLE STRAND LOCATION
- ⊕ - STRAND LOCATION

NOTES:

1. DO NOT PLACE MORE THAN ONE COLUMN OF PRESTRESSING STRANDS IN THE WEB.
2. DO NOT PLACE PRESTRESSING STRANDS AT CORNER LOCATION IN BOTTOM ROW.
3. SEE BC-775M FOR GROUTED RECESS FOR STRANDS AT BEAM ENDS.

TYPICAL STRAND PATTERN

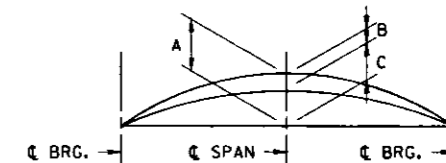
N. T. S.



TYPICAL STRAND CONFINEMENT

N. T. S.

CAMBER TABLE			
BEAM NO.	A (IN)	B (IN)	C (IN)
①	1.88	1.23	0.65
②, ③	1.88	1.36	0.52
④-⑦	1.88	0.96	0.92
⑧, ⑨	1.88	1.36	0.52
⑩	1.88	1.35	0.53

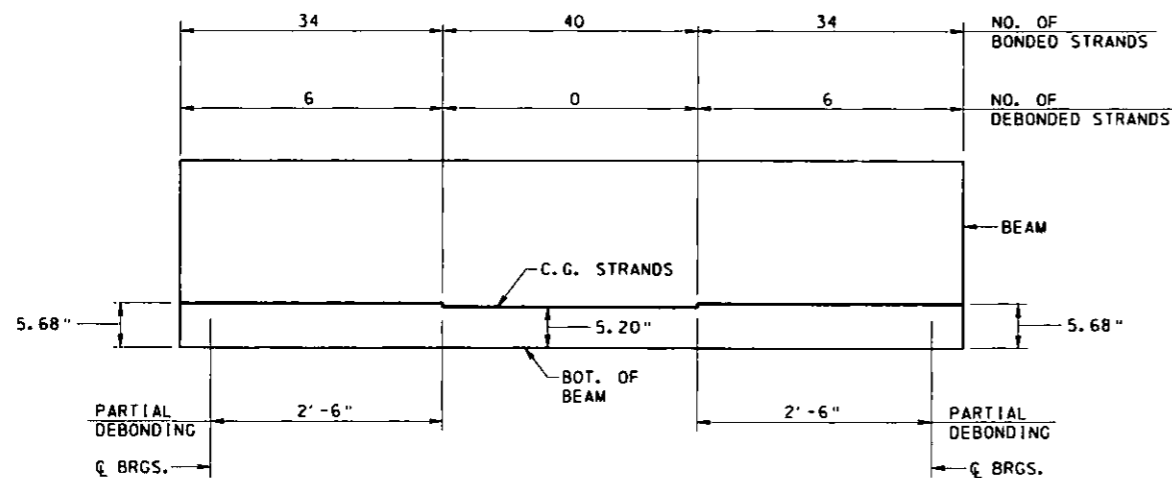


BEAM CAMBER DIAGRAM

- A= ESTIMATED PRESTRESS CAMBER LESS DEFLECTION DUE TO DEAD LOAD OF BEAM TIMES CREEP FACTOR (CHECK IN FIELD).
 - B= DEFLECTION DUE TO ALL DEAD LOAD EXCEPT BEAM WEIGHT AND FUTURE WEARING SURFACE.
 - C= A-B = NET FINAL CAMBER
THE THICKNESS OF THE CONCRETE DECK SHALL BE VARIED TO ACHIEVE THE REQUIRED VERTICAL GEOMETRY AND TO COMPENSATE FOR ANY INACCURACIES IN BEAM CAMBER.
- A, B AND C ARE THEORETICAL VALUES AND MAY VARY WITH ACTUAL CONCRETE STRENGTH (AGE), VARIOUS PRESTRESSING CONDITIONS, CREEP FACTOR AND PRESTRESS LOSSES.
- USE A CREEP FACTOR EQUAL TO 1.60 AND P/S LOSS EQUAL TO 10%.

PRESTRESSED DATA

- 270 ksi LOW RELAXATION STRANDS, 0.52" DIA.,
- 0.167 in² STRAND AREA
- CONCRETE STRENGTH AT STRAND RELEASE (f_{ci}) 6800 psi
- CONCRETE STRENGTH AT 28 DAYS (f_c) 8000 psi
- JACKING PRESTRESS STRESS 187960 psi
- JACKING PRESTRESS FORCE 1352.7 kips
- TRANSFER PRESTRESS FORCE 1255.6 kips

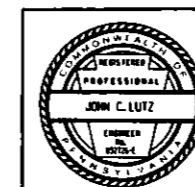


TYPICAL STRAND CONFIGURATION

N. T. S.

NOTE:

NUMBER OF DEBONDED STRANDS DOES NOT INCLUDE CRACK CONTROL DEBONDING



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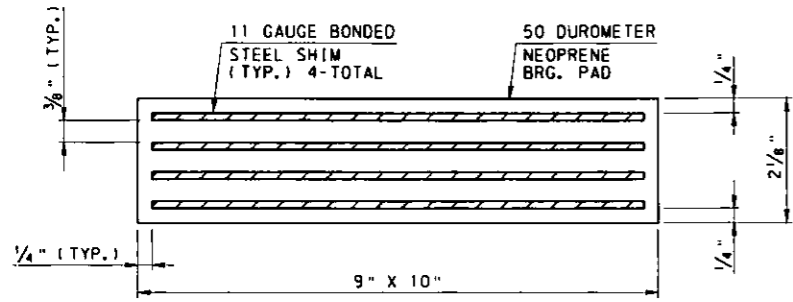
CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE

STRAND TABLES

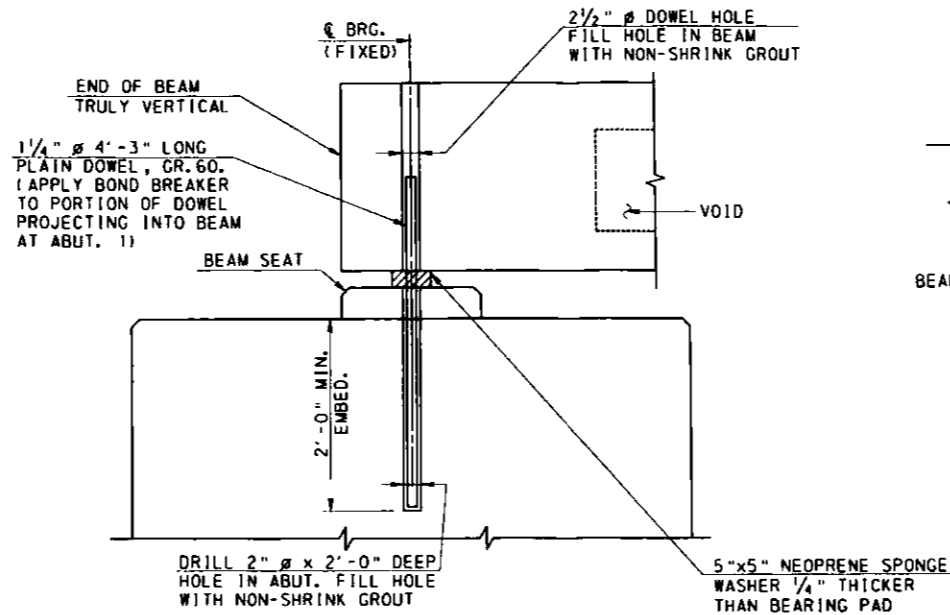
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 32 OF 46	

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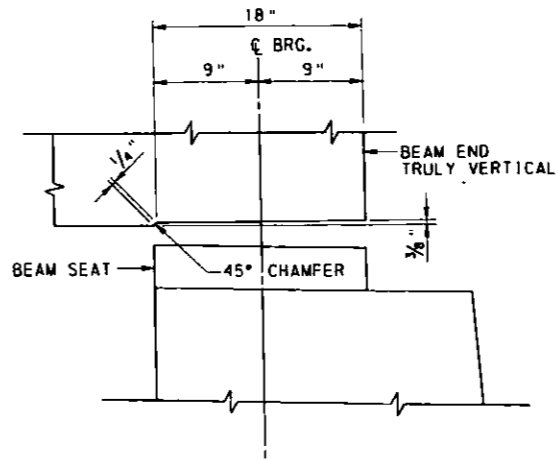


ELASTOMERIC BEARING PAD DETAILS
(FIXED END - ABUT. 1)
(EXP. END - ABUT. 2)
NOT TO SCALE



SECTION A-A DOWEL DETAIL AT ABUT. 1

6 0 6 INCHES
SCALE: 1 1/2" = 1'-0"



SECTION B-B
ABUTMENT 2
BEAM DAP DETAIL
NOT TO SCALE

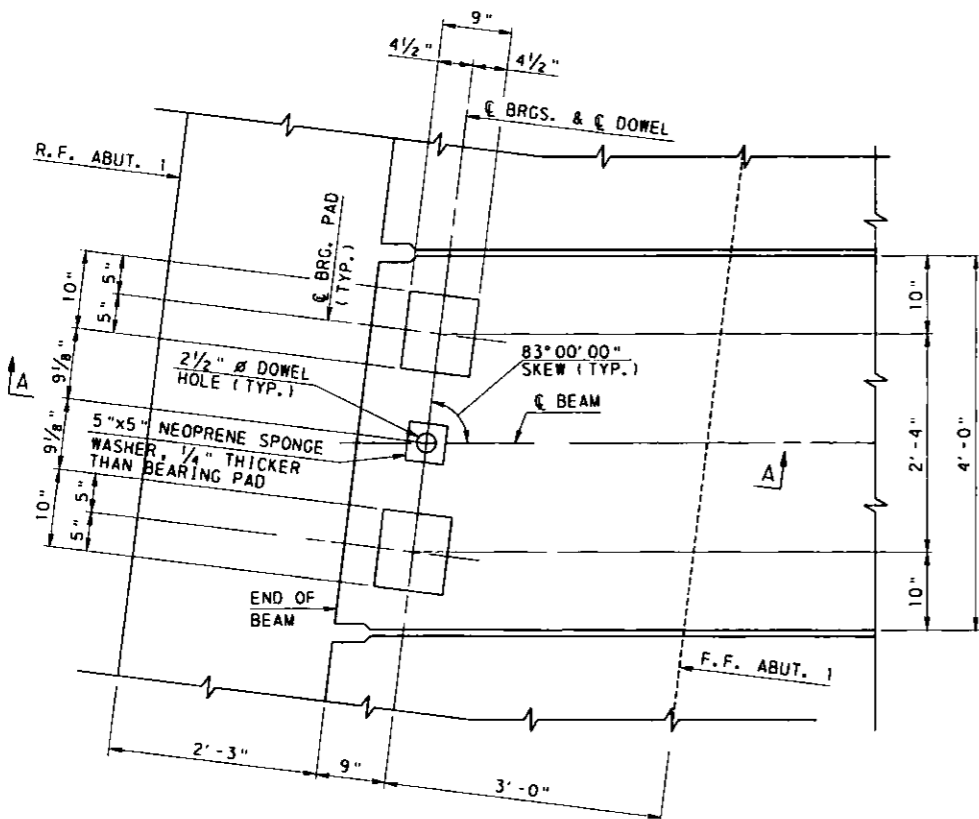
BEARING PAD QUANTITY TABLE		
LOCATION	FIXED BRG.	EXPANSION BRG.
ABUTMENT 1	20	---
ABUTMENT 2	---	20
TESTING	---	1
TOTAL	20	21

DESIGN CRITERIA:

- EXPANSION LENGTH = 68'-6"
- TEMP. RANGE FOR BEARING DESIGN = 80 DEG F
- TEMP. RANGE FOR SUBSTRUCTURE DESIGN = 58 DEG F
- LL ROTATION ABOUT TRANSVERSE AXIS OF PAD = 0.0030 RAD
- LL ROTATION ABOUT LONGITUDINAL AXIS OF PAD = 0.0004 RAD
- CONSTRUCTION TOLERANCE ABOUT TRANSVERSE AXIS OF PAD = 0.0037 RAD
- CONSTRUCTION TOLERANCE ABOUT LONGITUDINAL AXIS OF PAD = 0.0003 RAD
- DL1 ROTATIONAL MOVEMENT = 0 INCH (SEE BEARING NOTE 1)
- DL2 ROTATIONAL MOVEMENT = 0 INCH (SEE BEARING NOTE 1)
- LL ROTATIONAL MOVEMENT = 0.110 INCH
- MAX DL REACTION = 50.9 KIP
- MIN DL REACTION = 37.2 KIP
- MAX LL REACTION (W/O IMPACT) = 49.4 KIP
- MIN LL REACTION (W/O IMPACT) = 24.7 KIP

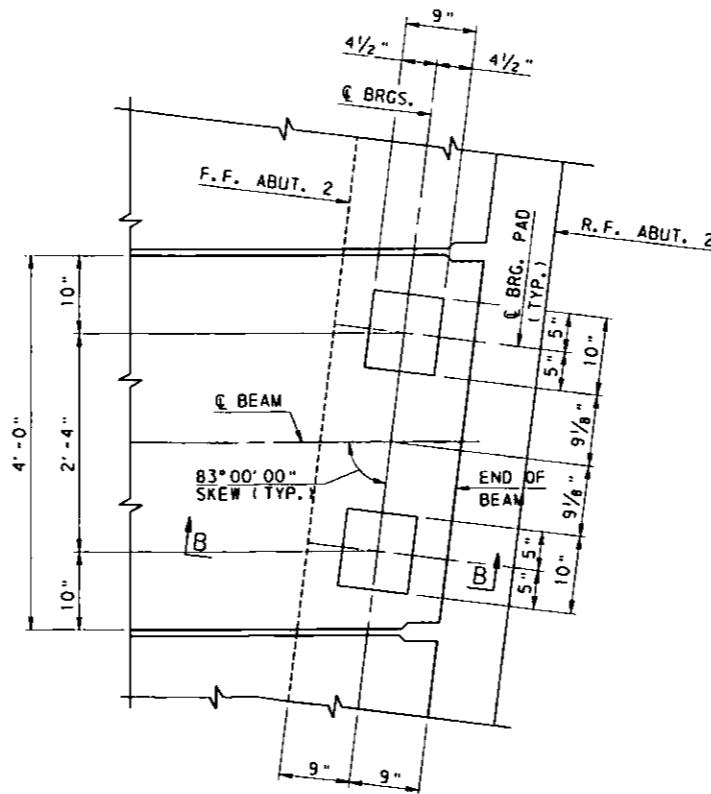
BEARING NOTES:

1. JACK BEAMS AFTER DECK PLACEMENT TO RESET EXPANSION BEARINGS.
2. FOR GENERAL NOTES, SEE SHEET 2.
3. FOR ADDITIONAL BEARING DETAILS, SEE BC-755M.
4. MANUFACTURE ALL BEARINGS IN ACCORDANCE WITH THE COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PLANS AND SPECIFICATIONS (PUB. 408) SECTION 1113 AND DM-4.
5. ALL BEARING PADS ARE TO BE MOLDED TO DESIGN DIMENSIONS. CUTTING TO SIZE AFTER FABRICATION IS PROHIBITED.
6. PROVIDE NEOPRENE 50 +/- 5 DUROMETER.
7. VULCANIZE PITCH PIN GROOVES.
8. USE CONTRACT DRAWINGS TO FABRICATE ELASTOMERIC PADS. (SHOP DRAWINGS NOT REQUIRED).
9. PROVIDED MINIMUM LOW-TEMPERATURE NEOPRENE GRADE 3.
10. BEARING PADS WILL BE SAMPLED FOR TESTING ACCORDING TO PTM NO. 312.



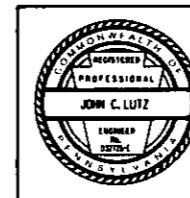
ABUT. 1 BEARING PAD PLACEMENT - PLAN
(FIXED)

6 0 6 12 INCHES
SCALE: 1" = 1'-0"



ABUT. 2 BEARING PAD PLACEMENT - PLAN
(EXP.)

6 0 6 12 INCHES
SCALE: 1" = 1'-0"



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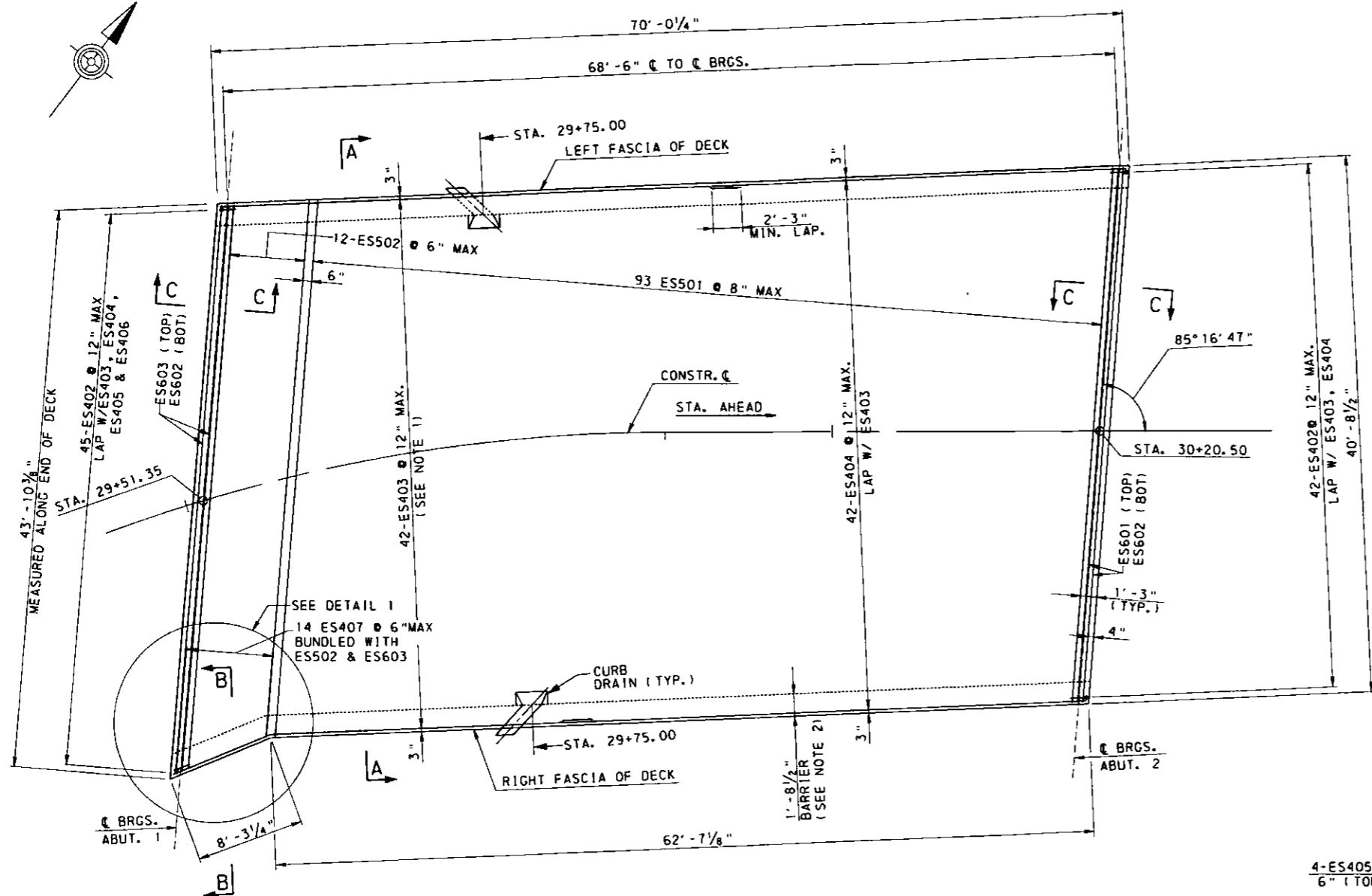
CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
BEARING AND BEAM DAP DETAILS

PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

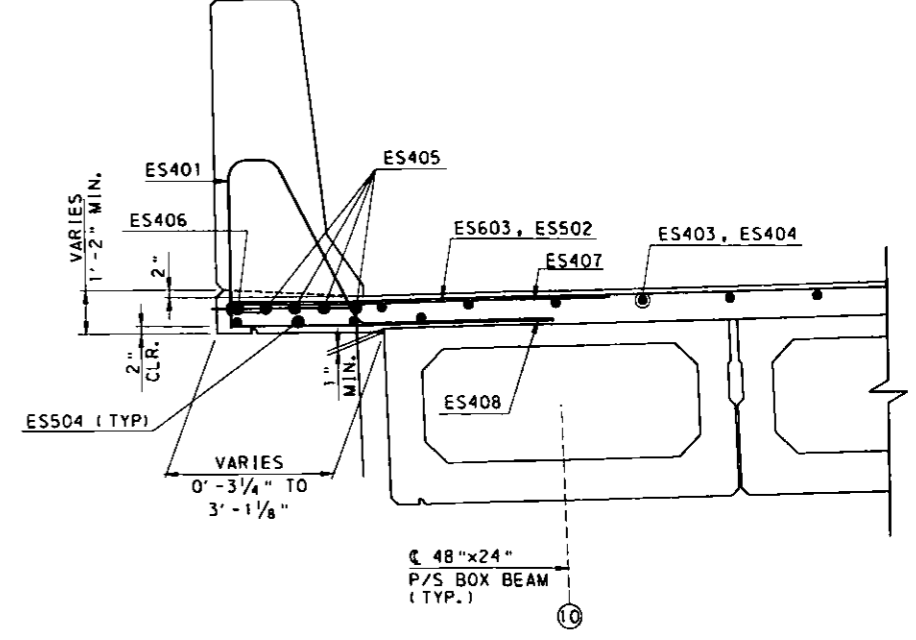
DES.	MRM	DRW.	ADC	CHK.	JCL
DATE	12/2015	SCALE		SHEET	33 OF 46

26048

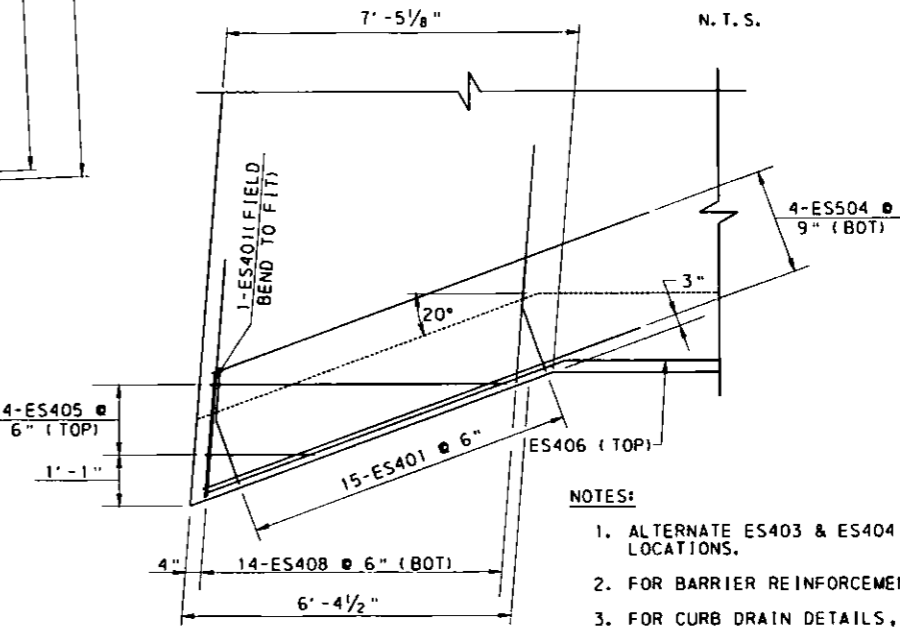
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SLAB REINFORCING PLAN
2 0 2 4 6 FEET
SCALE: 3/16" = 1'-0"

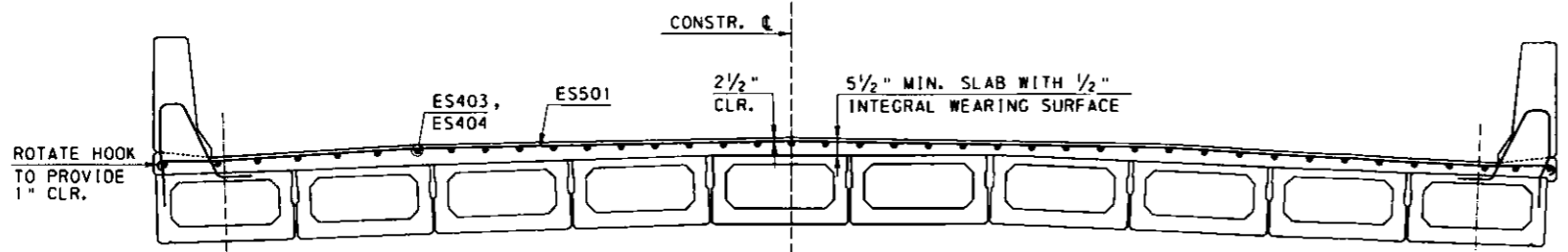


**SECTION B-B
SLAB KINK AT ABUT. 1**

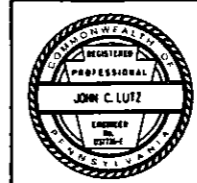


- NOTES:**
1. ALTERNATE ES403 & ES404 TO STAGGER LAP SPLICE LOCATIONS.
 2. FOR BARRIER REINFORCEMENT, SEE SHEETS 36 & 37.
 3. FOR CURB DRAIN DETAILS, SEE SHEET 36 AND BC-751M.
 4. FOR SECTION C-C, SEE SHEET 35.

DETAIL 1
1 0 2 FEET
SCALE: 1/2" = 1'-0"



FOR CROSS SLOPES, SEE TYPICAL SECTION ON SHEET 35.
**SECTION A-A
CONCRETE SLAB**
1 0 1 2 3 FEET
SCALE: 3/8" = 1'-0"

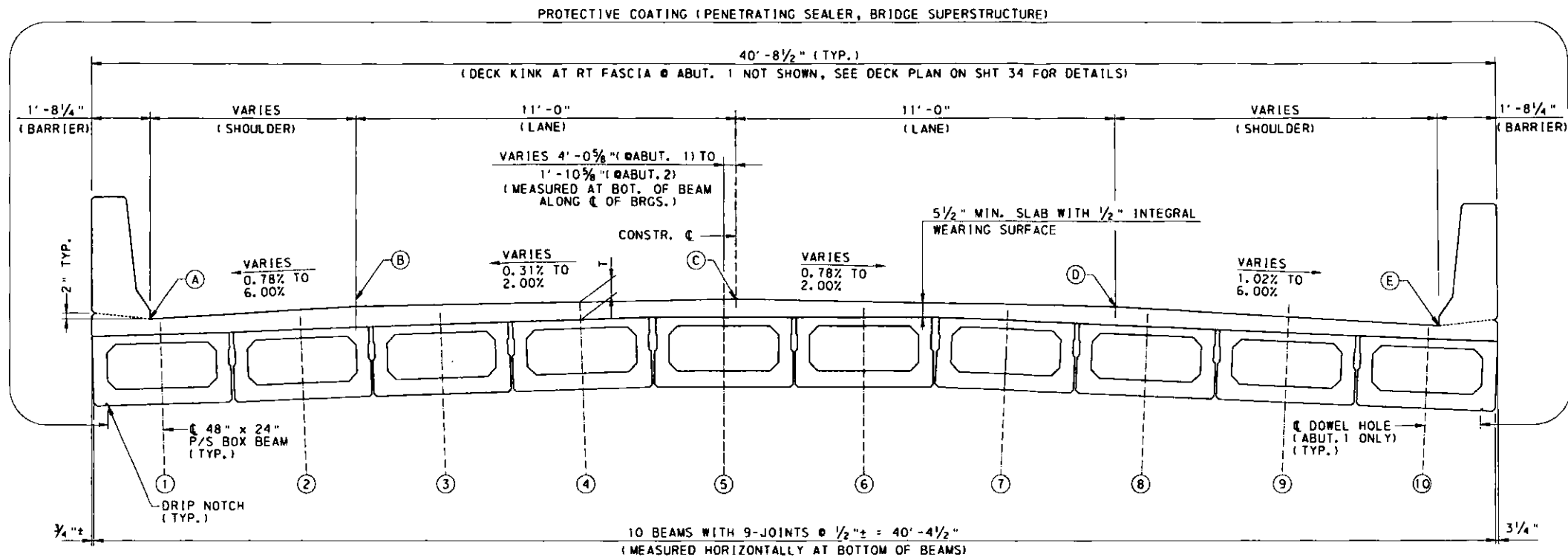


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Department of Public Works

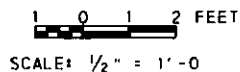
CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
DECK SLAB PLAN
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 34 OF 46	

3/24/2016
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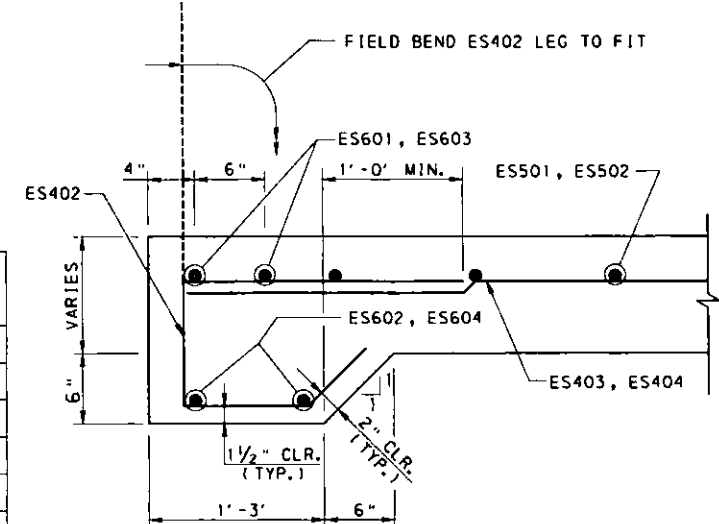


TYPICAL SECTION
(LOOKING AHEAD STATIONS)

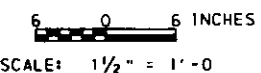


TOP OF DECK ELEVATIONS					
STATION	LT. GUTTER LINE EL. A	LT. SHLDR. BREAKLINE EL. B	P.G. LINE EL. C	RT. SHLDR. BREAKLINE EL. D	RT. GUTTER LINE EL. E
29+43.44	---	---	---	---	763.92
29+46.63	---	---	---	763.99	763.90
29+50.00	---	---	---	764.00	763.86
29+51.35	---	---	764.11	764.00	763.86
29+55.26	---	764.07	764.13	764.00	763.81
29+57.93	763.82	764.06	764.15	764.01	763.77
29+60.00	763.79	764.06	764.16	764.01	763.73
29+80.00	763.71	764.07	764.29	764.07	763.51
30+00.00	763.73	764.13	764.35	764.13	763.61
30+18.93	763.51	763.95	764.17	763.95	763.47
30+19.59	763.50	763.94	764.16	763.94	---
30+20.00	763.50	763.94	764.16	---	---
30+20.50	763.48	763.93	764.15	---	---
30+21.41	763.46	763.91	---	---	---
30+22.03	763.45	---	---	---	---

NOTE: ELEVATIONS GIVEN AT THE FIRST AND LAST STATIONS LISTED FOR EACH POINT ARE LOCATED AT THE C OF BEARINGS.



SECTION C-C

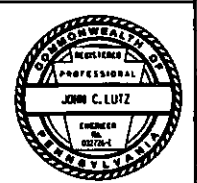


TOP OF DECK ELEVATIONS AT 10TH POINTS ALONG C OF BEAM										
LOCATION	BEAM NUMBER									
	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
C BRG. ABUT. 1	763.83	763.95	764.05	764.09	764.10	764.11	764.07	764.03	763.99	763.95
6.85	763.78	763.93	764.06	764.11	764.14	764.13	764.08	764.03	763.95	763.86
13.70	763.72	763.93	764.07	764.13	764.18	764.15	764.09	764.03	763.89	763.75
20.55	763.69	763.93	764.08	764.16	764.22	764.18	764.10	764.03	763.82	763.63
27.40	763.74	763.98	764.12	764.20	764.28	764.21	764.13	764.01	763.77	763.52
34.25	763.77	764.01	764.16	764.24	764.32	764.26	764.17	764.06	763.82	763.57
41.10	763.78	764.02	764.17	764.25	764.33	764.28	764.20	764.11	763.86	763.62
47.95	763.74	764.00	764.17	764.25	764.33	764.29	764.21	764.12	763.88	763.64
54.80	763.69	763.93	764.12	764.20	764.28	764.26	764.18	764.10	763.87	763.62
61.65	763.60	763.84	764.05	764.13	764.21	764.20	764.12	764.05	763.82	763.58
C BRG. ABUT. 2	763.47	763.73	763.93	764.02	764.11	764.11	764.04	763.95	763.75	763.51

NOTE: DECK ELEVATIONS GIVEN AT THE C OF EACH BEAM. LOCATIONS GIVEN ARE THE DISTANCE (FT) ALONG THE C OF EACH BEAM TO THE 10TH POINT AS MEASURED FROM THE C OF BEARING AT ABUTMENT 1.

DECK SLAB THICKNESS (T) AT 10TH POINTS ALONG C OF BEAM										
LOCATION	BEAM NUMBER									
	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
C BRG. ABUT. 1	9"	8 3/4"	8 5/8"	7"	6 1/4"	6 3/8"	6 3/8"	8 5/8"	10 5/8"	12"
6.85	8 3/8"	8 5/8"	8 1/4"	7"	6 1/2"	6 1/2"	6 3/8"	8 5/8"	9 5/8"	10 5/8"
13.70	7 5/8"	8 5/8"	8 1/2"	7 1/4"	7"	6 5/8"	7"	8 5/8"	9 1/4"	9 5/8"
20.55	7 3/8"	8 5/8"	8 5/8"	7 5/8"	7 1/2"	7"	7 1/8"	8 3/4"	8 3/8"	8 1/4"
27.40	8 1/8"	9 1/2"	9 1/4"	8 1/8"	8 1/4"	7 1/2"	7 1/2"	8 3/4"	8"	7 1/8"
34.25	8 5/8"	9 5/8"	9 5/8"	8 3/4"	8 5/8"	8 1/4"	8 5/8"	9 1/2"	8 3/4"	7 3/4"
41.10	8 5/8"	10 1/4"	10 1/4"	9 1/4"	9 3/8"	8 3/4"	8 3/8"	10 1/4"	9 1/2"	8 5/8"
47.95	8 3/4"	10 1/4"	10 1/2"	9 3/8"	9 1/2"	9 1/8"	9 1/4"	10 5/8"	9 5/8"	9 5/8"
54.80	8 3/8"	9 3/4"	10 1/4"	9 1/4"	9 3/8"	9"	9 1/4"	10 3/4"	10"	9 1/4"
61.65	7 3/4"	9"	9 5/8"	8 3/4"	8 3/8"	8 3/8"	9"	10 3/8"	9 5/8"	9 1/8"
C BRG. ABUT. 2	6 5/8"	8"	8 5/8"	8"	8 1/4"	8 1/4"	8 1/2"	9 5/8"	9 5/8"	8 5/8"

NOTE: DECK SLAB THICKNESS IS MEASURED FROM THE TOP OF DECK TO THE TOP OF BEAM. BEAM NOTCH DEPTH NOT INCLUDED AT C OF ABUT. 1 & ABUT. 2.



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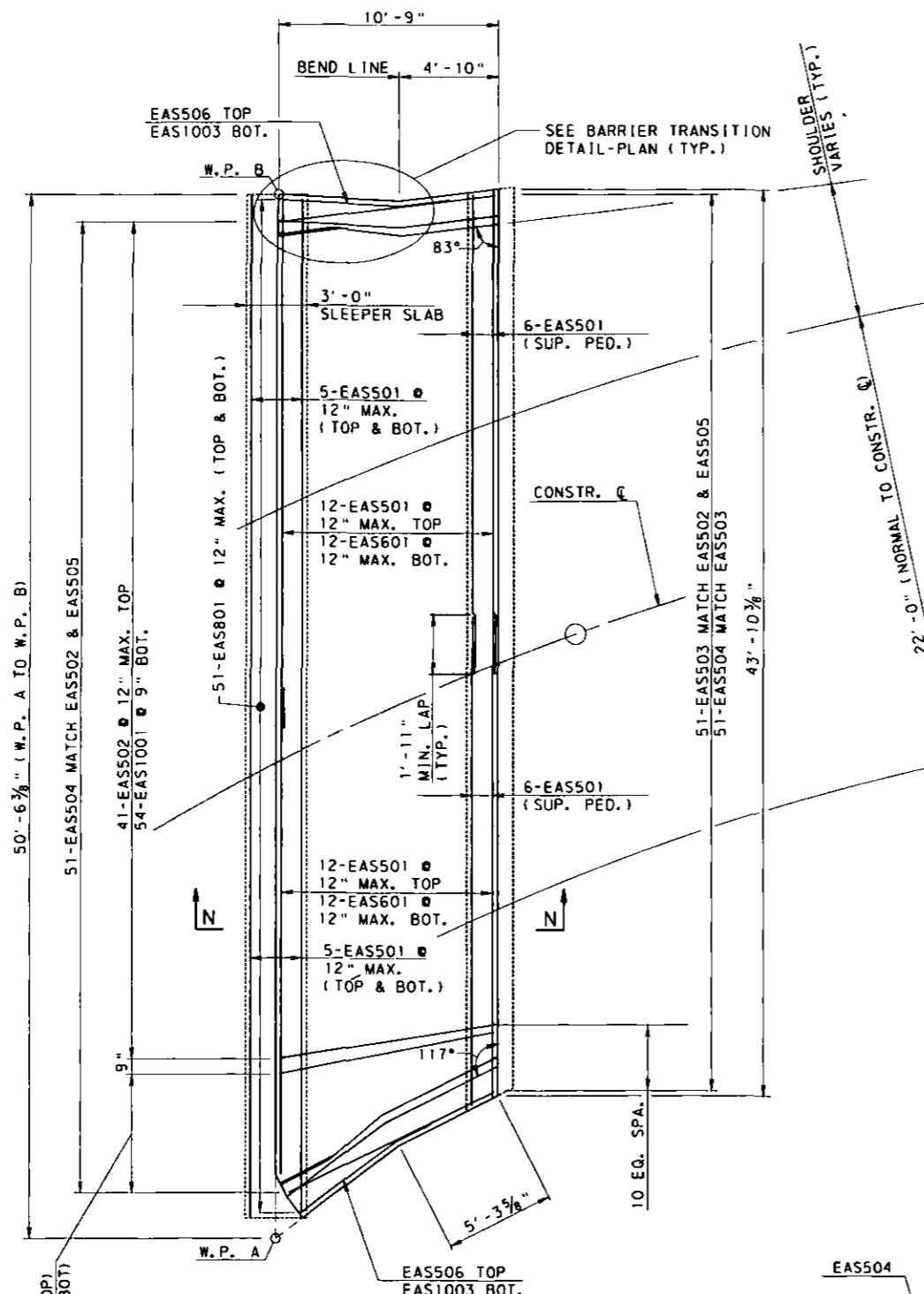
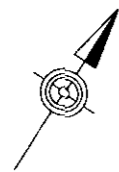
County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
DECK SLAB TYPICAL SECTION &
ELEVATION TABLE
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

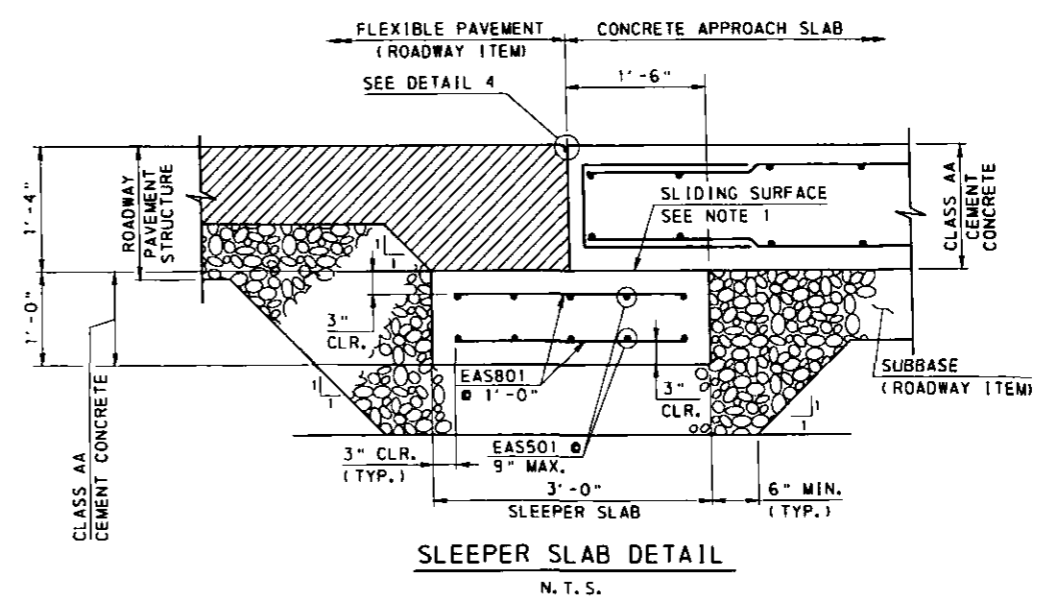
DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 35 OF 46	

3/24/2016

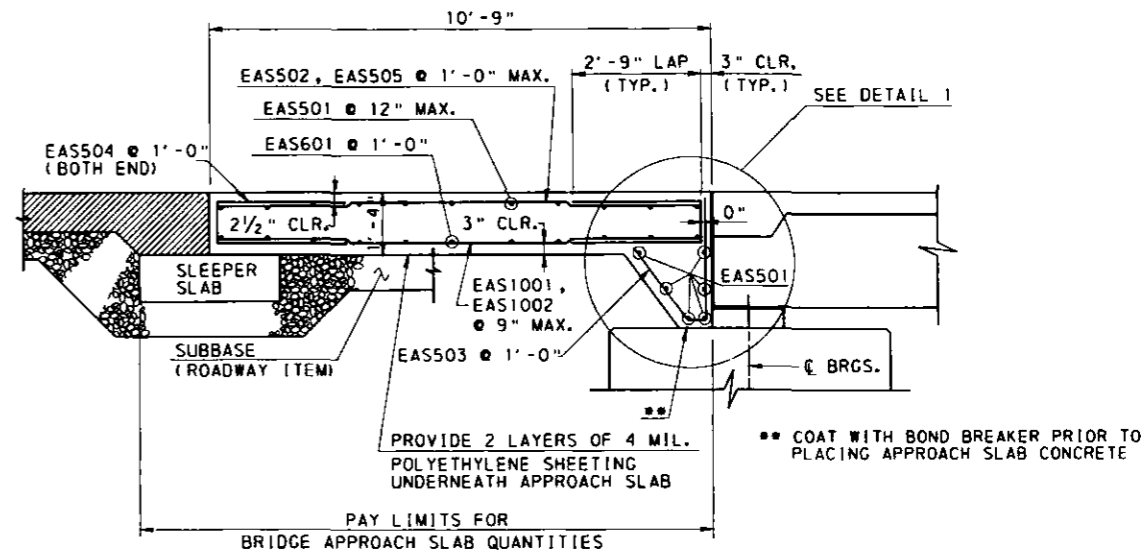
J:\PROJ\76051-CO\CADD\structure\FINAL DESIGN\PINECREEK_SHT38_APPR SLAB ABUT 1.dgn



MODIFIED APPROACH SLAB PLAN
 SCALE: 1/4" = 1'-0"

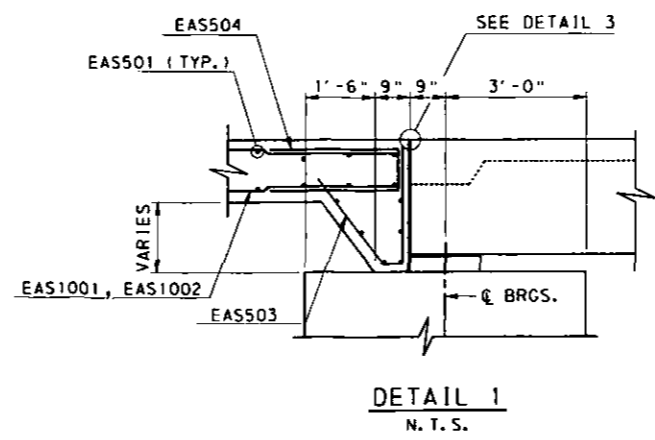


SLEEPER SLAB DETAIL
 N. T. S.

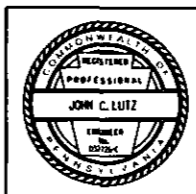


SECTION N-N
 SCALE: 1/2" = 1'-0"

- NOTES:**
1. FOR GENERAL NOTES, SEE SHEET 2.
 2. FOR BARRIER TRANSITION DETAIL PLAN AND BARRIER DETAILS, SEE SHEET 40.
 3. FORM APPROACH SLAB TO MATCH FOOTPRINT OF BARRIER ABOVE.
 4. FOR DETAILS 3 & 4 SEE SHEET 40.
 5. FOR REINFORCEMENT BAR SCHEDULE, SEE SHEET 41.
 6. FOR ELEVATIONS, SEE SHEET 40.



DETAIL 1
 N. T. S.



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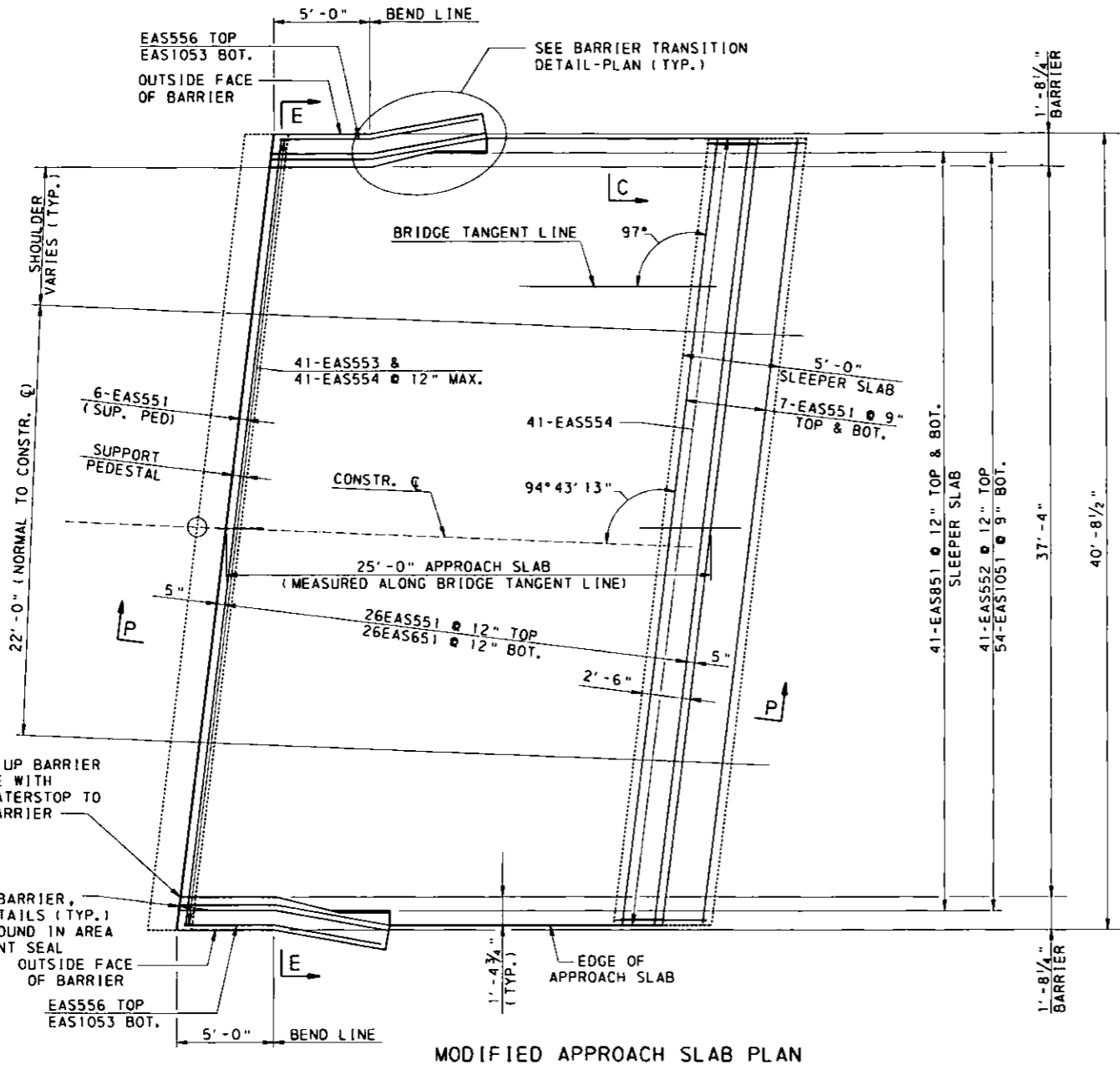
County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 EAST PENNVIEW STREET OVER PINE CREEK
 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
APPROACH SLAB - ABUT 1
 PINE CREEK BRIDGE NO II
 STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 38 OF 46	

3/24/2016

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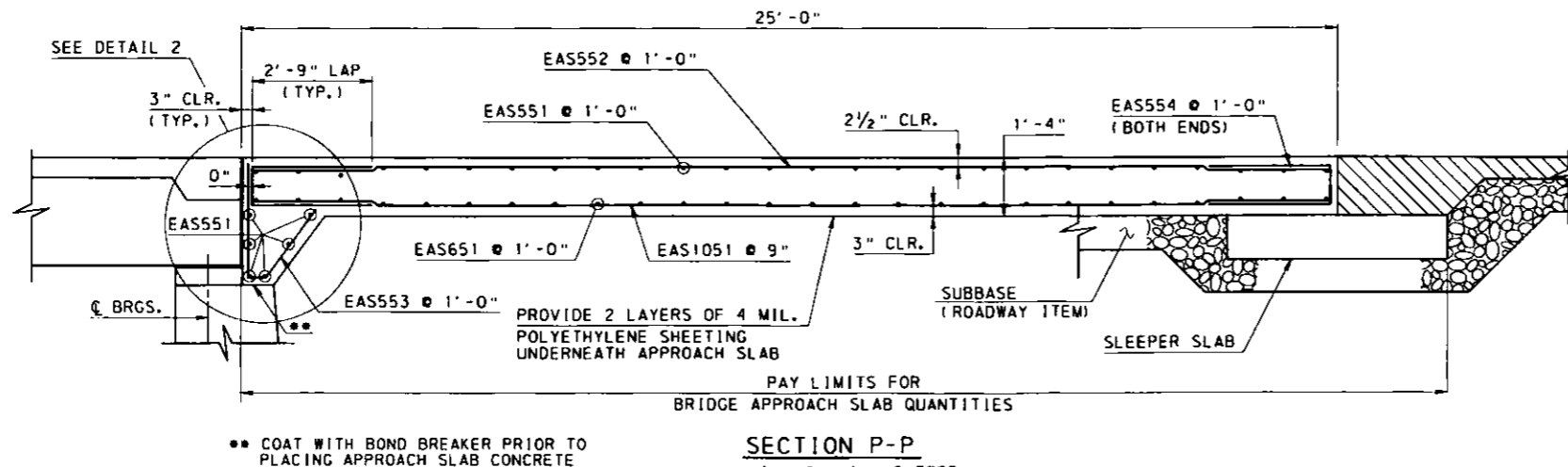
EXTEND JOINT SEAL UP BARRIER FACE IN ACCORDANCE WITH BC-766M. EXTEND WATERSTOP TO OUTSIDE FACE OF BARRIER

1/2" OPEN JOINT IN BARRIER, SEE BC-752M FOR DETAILS (TYP.) OMIT CAULKING COMPOUND IN AREA OF SAW CUT FOR JOINT SEAL

EAS556 TOP
EAS1053 BOT.

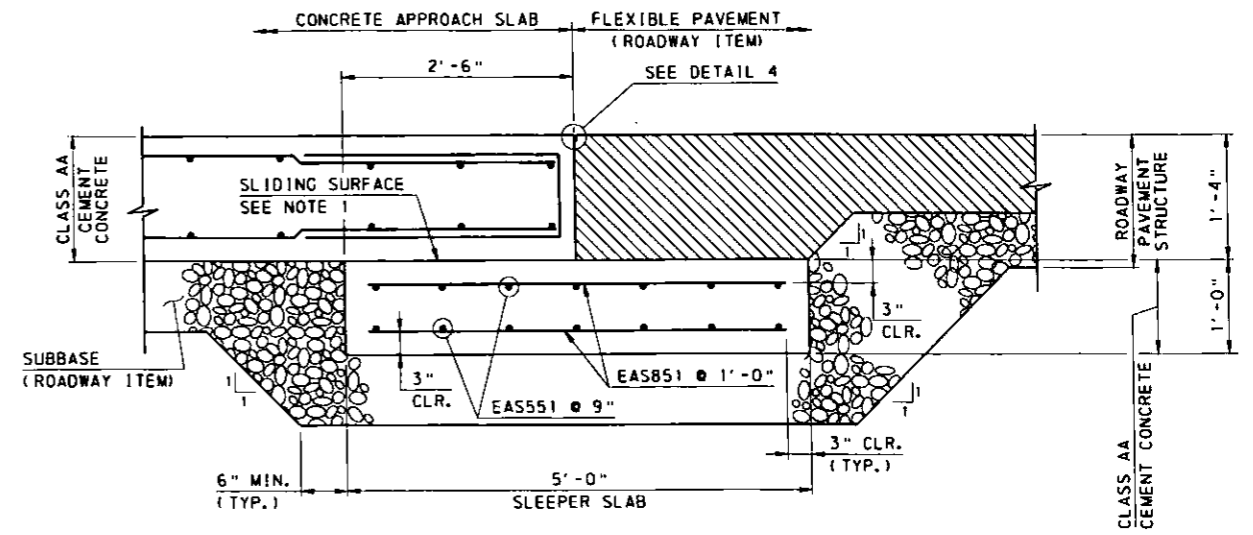
MODIFIED APPROACH SLAB PLAN

2 0 2 4 FEET
SCALE: 1/4" = 1'-0"



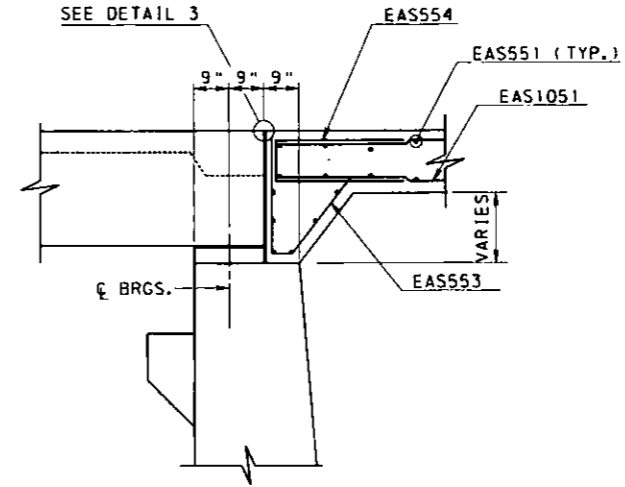
** COAT WITH BOND BREAKER PRIOR TO PLACING APPROACH SLAB CONCRETE

SECTION P-P
1 0 1 2 FEET
SCALE: 1/2" = 1'-0"



SLEEPER SLAB DETAIL

N. T. S.



DETAIL 2
N. T. S.

NOTES:

- 1. FOR GENERAL NOTES, SEE SHEET 2.
- 2. FOR BARRIER TRANSITION DETAIL PLAN AND BARRIER DETAILS, SEE SHEET 40.
- 3. FORM APPROACH SLAB TO MATCH FOOTPRINT OF BARRIER ABOVE.
- 4. FOR DETAILS 3 & 4, SEE SHEET 40.
- 5. FOR REINFORCEMENT BAR SCHEDULE, SEE SHEET 41.
- 6. FOR ELEVATIONS, SEE SHEET 40.

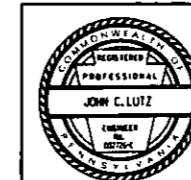
County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
APPROACH SLAB - ABUT 2

PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES.	MRM	DRW.	ADC	CHK.	JCL
DATE	12/2015	SCALE		SHEET	39 OF 46

26048



3/24/2016

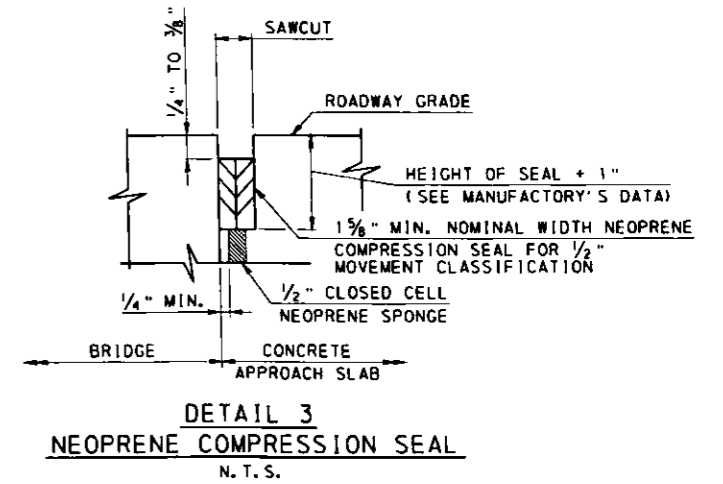
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ABUTMENT 1 APPROACH SLAB ELEVATIONS
LOOKING AHEAD STATIONS

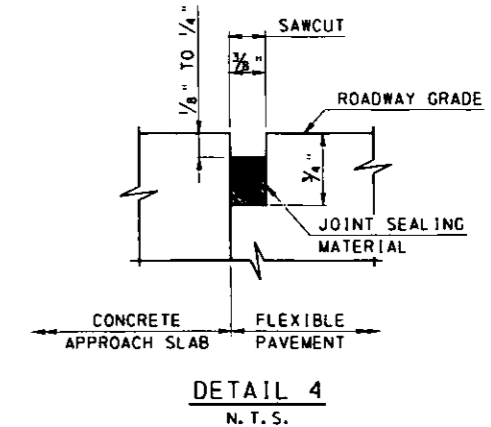
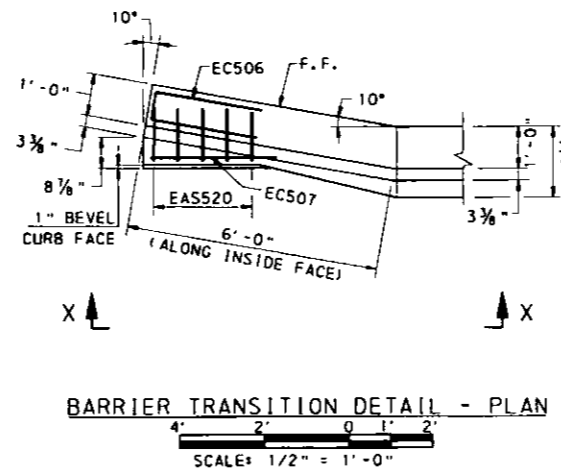
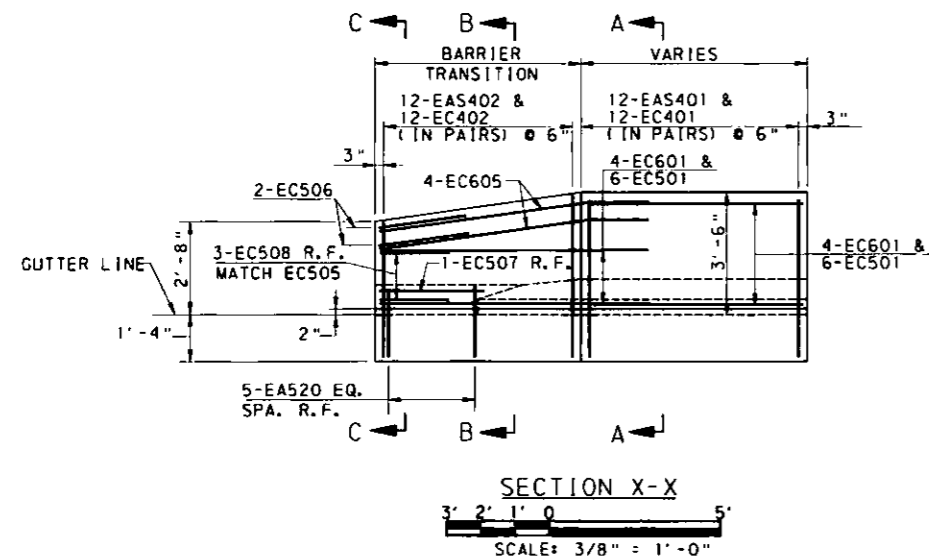
STATION	PT. A	PT. B	PT. C	PT. D	PT. E
29+28.16	---	---	---	---	764.02
29+32.52	---	---	---	764.06	764.02
29+38.75	---	---	764.10	764.07	763.96
29+42.38	---	---	764.10	764.04	763.93
29+43.86	---	764.18	764.10	764.02	---
29+45.74	---	764.19	764.10	764.00	---
29+48.60	764.25	764.20	764.10	---	---
29+50.55	764.14	764.20	764.10	---	---
29+54.53	763.95	764.09	---	---	---
29+57.29	763.84	---	---	---	---

ABUTMENT 2 APPROACH SLAB ELEVATIONS
LOOKING AHEAD STATIONS

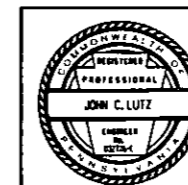
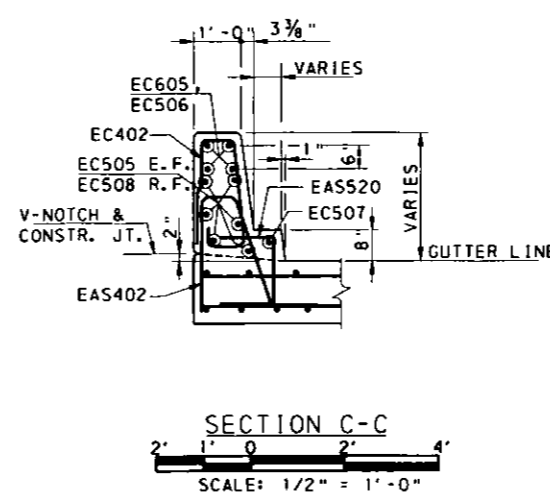
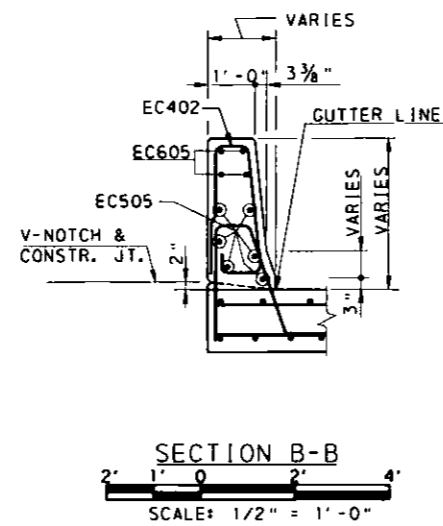
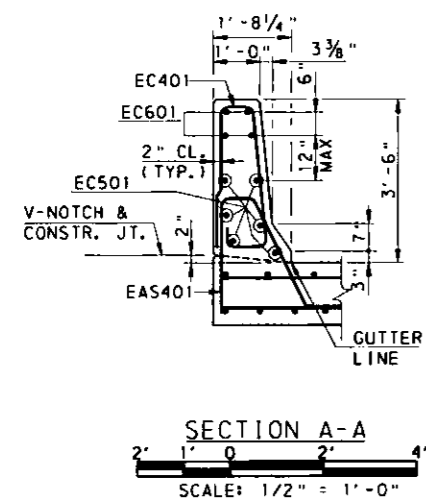
STATION	PT. A	PT. B	PT. C	PT. D	PT. E
30+19.71	---	---	---	---	763.48
30+20.00	---	---	---	---	763.48
30+20.34	---	---	---	763.93	763.47
30+21.25	---	---	764.14	763.92	763.46
30+22.16	---	763.90	764.12	763.90	763.43
30+22.77	763.44	763.89	764.11	763.89	763.41
30+30.00	763.21	763.74	763.96	763.74	763.21
30+40.00	763.03	763.48	763.70	763.48	762.99
30+44.85	762.92	763.33	763.55	763.33	762.97
30+45.34	762.92	763.31	763.53	763.31	---
30+46.25	762.90	763.28	763.50	---	---
30+47.16	762.88	763.25	---	---	---
30+47.66	762.87	---	---	---	---



NOTE:
1. TROWEL SMOOTH AND PLACE TWO LAYERS OF 4 MIL. POLYETHYLENE SHEETING AS BOND BREAKER.



NOTES:
1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR APPROACH SLAB PLANS, SEE SHEETS 38 & 39.
3. FOR REINFORCEMENT BAR SCHEDULE, SEE SHEET 41.
3. FOR SLAB ELEVATION POINT LOCATIONS, SEE SHEET 35.



County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
APPROACH SLAB DETAILS
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 40 OF 46	

3/24/2016

J:\PROJ\76051-00\CADD\Struct\FINAL DESIGN\PINECREEK_SHT42_RATING TABLE.dgn

LEFT FASCIA BEAM		P/S ADJACENT BOX BEAM 48/24					
SIMPLE SPAN		H20	HS20	ML-80	PHL-93	P-82	TK527
INVENTORY	DISTRIBUTION FACTOR	0.330	0.330	0.330	0.587	N/A	0.330
RATING (IR)	LOCATION (ft)	34.25	34.25	34.25	13.70	N/A	34.25
	LIMIT STATE	SERV-III	SERV-III	SERV-III	STR-I	N/A	SERV-III
	RATING FACTOR	1.96M	1.41M	1.20M	1.24V	N/A	1.24M
OPERATING	DISTRIBUTION FACTOR	0.587	0.587	0.587	0.587	0.587	0.587
RATING (OR)	LOCATION (ft)	13.70	13.70	13.70	13.70	6.85	13.70
	LIMIT STATE	STR-II	STR-II	STR-II	STR-IA	STR-II	STR-II
	RATING FACTOR	2.76V	2.00V	1.79V	1.61V	1.07V	1.77V
MAXIMUM MOMENT CAPACITY (kip-ft) 2496.8		SPAN LENGTH (ft) = 68.50					
LOCATION (ft) 34.25							
MAXIMUM SHEAR CAPACITY (kips) 281.65							
LOCATION (ft) 61.65							

NOTE: ALL RATINGS ARE BASED ON THE INCLUSION OF THE DESIGN FUTURE WEARING SURFACE.

RIGHT FASCIA BEAM		P/S ADJACENT BOX BEAM 48/24					
SIMPLE SPAN		H20	HS20	ML-80	PHL-93	P-82	TK527
INVENTORY	DISTRIBUTION FACTOR	0.330	0.330	0.330	0.330	N/A	0.330
RATING (IR)	LOCATION (ft)	34.25	34.25	34.25	34.25	N/A	34.25
	LIMIT STATE	SERV-III	SERV-III	SERV-III	SERV-III	N/A	SERV-III
	RATING FACTOR	1.84M	1.32M	1.13M	1.21M	N/A	1.16M
OPERATING	DISTRIBUTION FACTOR	0.587	0.587	0.587	0.587	0.587	0.587
RATING (OR)	LOCATION (ft)	13.7	13.7	13.7	13.7	13.7	13.7
	LIMIT STATE	STR-II	STR-II	STR-II	STR-IA	STR-II	STR-II
	RATING FACTOR	2.69V	1.95V	1.75V	1.57V	1.04V	1.73V
MAXIMUM MOMENT CAPACITY (kip-ft) 2517.2		SPAN LENGTH (ft) = 68.50					
LOCATION (ft) 34.25							
MAXIMUM SHEAR CAPACITY (kips) 280.54							
LOCATION (ft) 61.65							

NOTE: ALL RATINGS ARE BASED ON THE INCLUSION OF THE DESIGN FUTURE WEARING SURFACE.

FIRST & SECOND INTERIOR BEAM		P/S ADJACENT BOX BEAM 48/24					
SIMPLE SPAN		H20	HS20	ML-80	PHL-93	P-82	TK527
INVENTORY	DISTRIBUTION FACTOR	0.330	0.330	0.330	0.330	N/A	0.330
RATING (IR)	LOCATION (ft)	34.25	34.25	34.25	34.25	N/A	34.25
	LIMIT STATE	SERV-III	SERV-III	SERV-III	SERV-III	N/A	SERV-III
	RATING FACTOR	1.79M	1.29M	1.10M	1.18M	N/A	1.13M
OPERATING	DISTRIBUTION FACTOR	0.512	0.512	0.512	0.512	0.512	0.512
RATING (OR)	LOCATION (ft)	13.70	13.70	13.70	13.70	6.85	13.70
	LIMIT STATE	STR-II	STR-II	STR-II	STR-IA	STR-II	STR-II
	RATING FACTOR	3.07V	2.22V	1.99V	1.79V	1.20V	1.97V
MAXIMUM MOMENT CAPACITY (kip-ft) 2492.7		SPAN LENGTH (ft) = 68.50					
LOCATION (ft) 34.25							
MAXIMUM SHEAR CAPACITY (kips) 287.10							
LOCATION (ft) 61.65							

NOTE: ALL RATINGS ARE BASED ON THE INCLUSION OF THE DESIGN FUTURE WEARING SURFACE.

INTERIOR BEAM		P/S ADJACENT BOX BEAM 48/24					
SIMPLE SPAN		H20	HS20	ML-80	PHL-93	P-82	TK527
INVENTORY	DISTRIBUTION FACTOR	0.330	0.330	0.330	0.512	N/A	0.330
RATING (IR)	LOCATION (ft)	34.25	34.25	34.25	13.70	N/A	34.25
	LIMIT STATE	SERV-III	SERV-III	SERV-III	STR-I	N/A	SERV-III
	RATING FACTOR	2.43M	1.74M	1.49M	1.50V	N/A	1.54M
OPERATING	DISTRIBUTION FACTOR	0.512	0.512	0.512	0.512	0.512	0.512
RATING (OR)	LOCATION (ft)	13.70	13.70	13.70	13.70	13.70	13.70
	LIMIT STATE	STR-II	STR-II	STR-II	STR-IA	STR-II	STR-II
	RATING FACTOR	3.34V	2.41V	2.16V	1.94V	1.31V	2.14V
MAXIMUM MOMENT CAPACITY (kip-ft) 2492.7		SPAN LENGTH (ft) = 68.50					
LOCATION (ft) 34.25							
MAXIMUM SHEAR CAPACITY (kips) 291.64							
LOCATION (ft) 61.65							

NOTE: ALL RATINGS ARE BASED ON THE INCLUSION OF THE DESIGN FUTURE WEARING SURFACE.

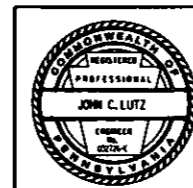
FIRST & SECOND INTERIOR BEAM		P/S ADJACENT BOX BEAM 48/24					
SIMPLE SPAN		H20	HS20	ML-80	PHL-93	P-82	TK527
INVENTORY	DISTRIBUTION FACTOR	0.330	0.330	0.330	0.330	N/A	0.330
RATING (IR)	LOCATION (ft)	34.25	34.25	34.25	34.25	N/A	34.25
	LIMIT STATE	SERV-III	SERV-III	SERV-III	SERV-III	N/A	SERV-III
	RATING FACTOR	2.03M	1.46M	1.25M	1.34M	N/A	1.28M
OPERATING	DISTRIBUTION FACTOR	0.512	0.512	0.512	0.512	0.512	0.512
RATING (OR)	LOCATION (ft)	13.70	13.70	13.70	13.70	6.85	13.70
	LIMIT STATE	STR-II	STR-II	STR-II	STR-IA	STR-II	STR-II
	RATING FACTOR	3.20V	2.31V	2.07V	1.86V	1.25V	2.05V
MAXIMUM MOMENT CAPACITY (kip-ft) 2492.7		SPAN LENGTH (ft) = 68.50					
LOCATION (ft) 34.25							
MAXIMUM SHEAR CAPACITY (kips) 289.45							
LOCATION (ft) 61.65							

NOTE: ALL RATINGS ARE BASED ON THE EXCLUSION OF THE DESIGN FUTURE WEARING SURFACE.

NOTES:

GIVEN DISTRIBUTION FACTOR IS THE VEHICULAR LIVE LOAD DISTRIBUTION FACTOR USED TO PRODUCE THE GIVEN RATING. FOR THE STR-IP LIMIT STATE, THE VEHICULAR LIVE LOAD DISTRIBUTION FACTOR ACCOUNTS FOR THE PRESENCE OF PEDESTRIAN LOADS, IF APPLICABLE.

SYMBOL DESIGNATION FOR RATING FACTORS:
M - MOMENT RATING FACTOR CONTROLS
V - SHEAR RATING FACTOR CONTROLS
C - COMBINED SHEAR/FLEXURE INTERACTION RATING FACTOR CONTROLS



REVISIONS	

County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE

RATING TABLES

PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES. NRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 42 OF 46	

3/24/2016

J:\PROJECTS\1-00\CADD\STRUCTURE\FINAL DESIGN\INCREAK_SHT43.MOMENT, SHEAR AND BEAM PROPERTIES.dgn

UNFACTORED MAXIMUM MOMENTS AND SHEARS - LEFT FASCIA BEAM					
SPAN LENGTH (ft) = 68.50					
LOADING	MOMENT		SHEAR		REACTION @ C. BRG. (Kips)
	MAXIMUM MOMENT (Kip-ft)	LOCATION (ft)	MAXIMUM SHEAR (Kips)	LOCATION (ft)	
NON-COMPOSITE DEAD LOAD	631.6	34.25	36.78	0.00	36.78
COMPOSITE DEAD LOAD (INCLUDING FUTURE WEARING SURFACE)	206.5	34.25	12.06	0.00	12.06
PEDESTRIAN LIVE LOAD	0.00	0.00	0.00	0.00	0.00
PHL-93 LIVE LOAD PLUS IMPACT	556.8	34.25	60.34	0.00	60.34
P-82 LIVE LOAD PLUS IMPACT	705.1	34.25	95.26	0.00	95.26

UNFACTORED MAXIMUM MOMENTS AND SHEARS - FIRST & SECOND INTERIOR BEAMS					
SPAN LENGTH (ft) = 68.50					
LOADING	MOMENT		SHEAR		REACTION @ C. BRG. (Kips)
	MAXIMUM MOMENT (Kip-ft)	LOCATION (ft)	MAXIMUM SHEAR (Kips)	LOCATION (ft)	
NON-COMPOSITE DEAD LOAD	665.10	34.25	38.74	0.00	38.74
COMPOSITE DEAD LOAD (INCLUDING FUTURE WEARING SURFACE)	206.50	34.25	12.06	0.00	12.06
PEDESTRIAN LIVE LOAD	0.00	0.00	0.00	0.00	0.00
PHL-93 LIVE LOAD PLUS IMPACT	556.70	34.25	52.62	0.00	52.62
P-82 LIVE LOAD PLUS IMPACT	705.00	34.25	83.06	0.00	83.06

UNFACTORED MAXIMUM MOMENTS AND SHEARS - INTERIOR BEAM					
SPAN LENGTH (ft) = 68.50					
LOADING	MOMENT		SHEAR		REACTION @ C. BRG. (Kips)
	MAXIMUM MOMENT (Kip-ft)	LOCATION (ft)	MAXIMUM SHEAR (Kips)	LOCATION (ft)	
NON-COMPOSITE DEAD LOAD	638.70	34.25	37.20	0.00	37.20
COMPOSITE DEAD LOAD (INCLUDING FUTURE WEARING SURFACE)	65.70	34.25	3.84	0.00	3.84
PEDESTRIAN LIVE LOAD	0.00	0.00	0.00	0.00	0.00
PHL-93 LIVE LOAD PLUS IMPACT	556.70	34.25	52.62	0.00	52.62
P-82 LIVE LOAD PLUS IMPACT	705.00	34.25	83.06	0.00	83.06

UNFACTORED MAXIMUM MOMENTS AND SHEARS - RIGHT FASCIA BEAM					
SPAN LENGTH (ft) = 68.50					
LOADING	MOMENT		SHEAR		REACTION @ C. BRG. (Kips)
	MAXIMUM MOMENT (Kip-ft)	LOCATION (ft)	MAXIMUM SHEAR (Kips)	LOCATION (ft)	
NON-COMPOSITE DEAD LOAD	661.90	34.25	39.38	0.00	39.38
COMPOSITE DEAD LOAD (INCLUDING FUTURE WEARING SURFACE)	193.3	34.25	11.49	0.00	11.49
PEDESTRIAN LIVE LOAD	0.00	0.00	0.00	0.00	0.00
PHL-93 LIVE LOAD PLUS IMPACT	566.8	34.25	60.34	0.00	60.34
P-82 LIVE LOAD PLUS IMPACT	705.1	34.25	95.26	0.00	95.26

NOTES:
UNFACTORED MAXIMUM MOMENTS, SHEARS, AND REACTIONS INCLUDE THE APPROPRIATE APPLIED DISTRIBUTION FACTOR.

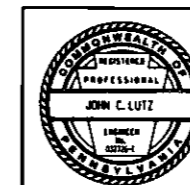
PRESTRESSED CONCRETE BEAM SECTION PROPERTIES ADJACENT BOX BEAM @ CENTERLINE SPAN		
NON-COMPOSITE	GROSS SECTION	TRANSFORMED SECTION
AREA OF BASIC BEAM, in ²	587.20	0.00
MOMENT OF INERTIA, in ⁴	42292	0.00
NEUTRAL AXIS TO TOP OF BEAM, in	13.52	0.00
NEUTRAL AXIS TO BOTTOM OF BEAM, in	10.48	0.00
SECTION MODULUS AT TOP OF BEAM, in ³	3127	0.00
SECTION MODULUS AT BOTTOM OF BEAM, in ³	4037	0.00

PRESTRESSED CONCRETE BEAM SECTION PROPERTIES ADJACENT BOX BEAM @ CENTERLINE SPAN -- LEFT FASCIA BEAM		
COMPOSITE	GROSS SECTION	TRANSFORMED SECTION
MOMENT OF INERTIA, in ⁴	77000	79549
NEUTRAL AXIS TO TOP OF SLAB, in	14.87	15.25
NEUTRAL AXIS TO TOP OF BEAM, in	9.87	10.25
NEUTRAL AXIS TO BOTTOM OF BEAM, in	14.13	13.75
SECTION MODULUS AT TOP OF SLAB, in ³	5177	5217
SECTION MODULUS AT TOP OF BEAM, in ³	7799	7762
SECTION MODULUS AT BOTTOM OF BEAM, in ³	5451	5785

PRESTRESSED CONCRETE BEAM SECTION PROPERTIES ADJACENT BOX BEAM @ CENTERLINE SPAN -- RIGHT FASCIA BEAM		
COMPOSITE	GROSS SECTION	TRANSFORMED SECTION
MOMENT OF INERTIA, in ⁴	78355	80988
NEUTRAL AXIS TO TOP OF SLAB, in	14.73	15.11
NEUTRAL AXIS TO TOP OF BEAM, in	9.73	10.11
NEUTRAL AXIS TO BOTTOM OF BEAM, in	14.27	13.89
SECTION MODULUS AT TOP OF SLAB, in ³	5319	5361
SECTION MODULUS AT TOP OF BEAM, in ³	8052	8012
SECTION MODULUS AT BOTTOM OF BEAM, in ³	5491	5830

PRESTRESSED CONCRETE BEAM SECTION PROPERTIES ADJACENT BOX BEAM @ CENTERLINE SPAN -- FIRST & SECOND INTERIOR BEAMS		
COMPOSITE	GROSS SECTION	TRANSFORMED SECTION
MOMENT OF INERTIA, in ⁴	76725	79258
NEUTRAL AXIS TO TOP OF SLAB, in	14.90	15.28
NEUTRAL AXIS TO TOP OF BEAM, in	9.90	10.28
NEUTRAL AXIS TO BOTTOM OF BEAM, in	14.10	13.72
SECTION MODULUS AT TOP OF SLAB, in ³	5149	5188
SECTION MODULUS AT TOP OF BEAM, in ³	7749	7712
SECTION MODULUS AT BOTTOM OF BEAM, in ³	5442	5776

PRESTRESSED CONCRETE BEAM SECTION PROPERTIES ADJACENT BOX BEAM @ CENTERLINE SPAN -- INTERIOR BEAM		
COMPOSITE	GROSS SECTION	TRANSFORMED SECTION
MOMENT OF INERTIA, in ⁴	76725	79258
NEUTRAL AXIS TO TOP OF SLAB, in	14.90	15.28
NEUTRAL AXIS TO TOP OF BEAM, in	9.90	10.28
NEUTRAL AXIS TO BOTTOM OF BEAM, in	14.10	13.72
SECTION MODULUS AT TOP OF SLAB, in ³	5149	5188
SECTION MODULUS AT TOP OF BEAM, in ³	7749	7712
SECTION MODULUS AT BOTTOM OF BEAM, in ³	5442	5776



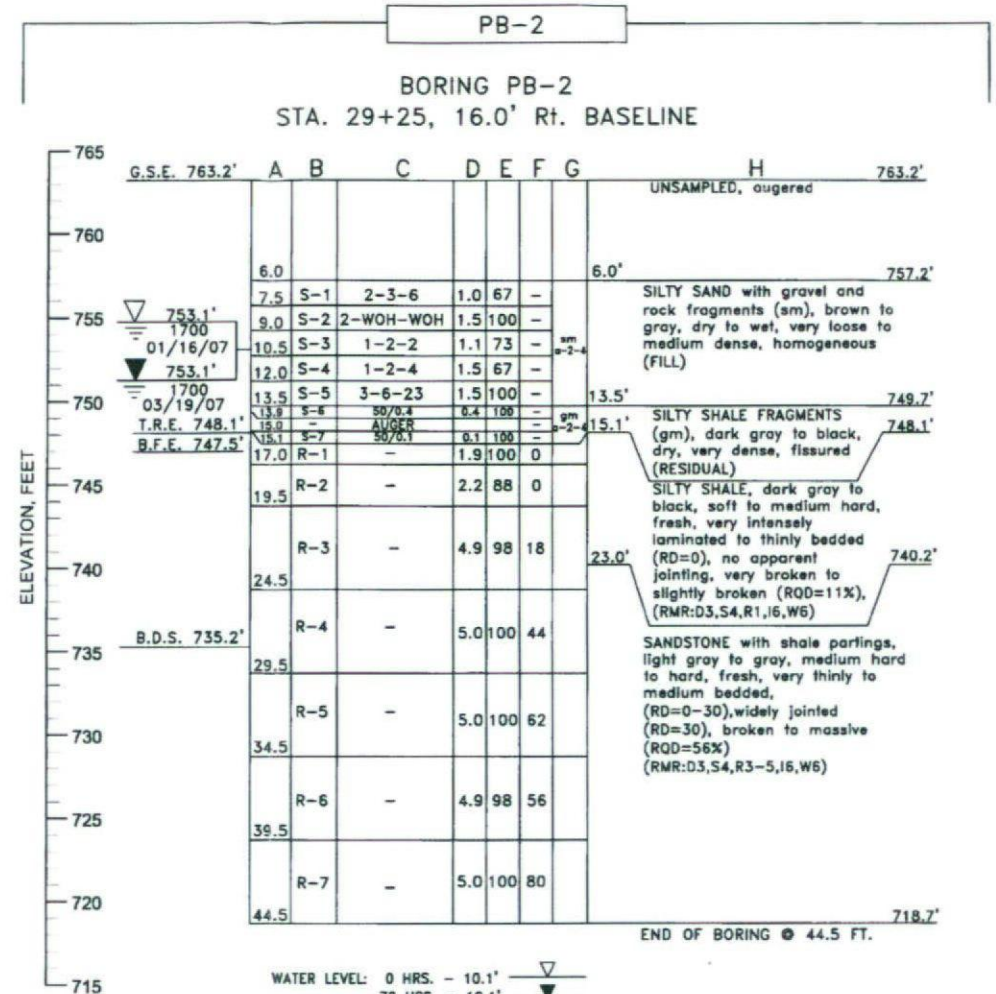
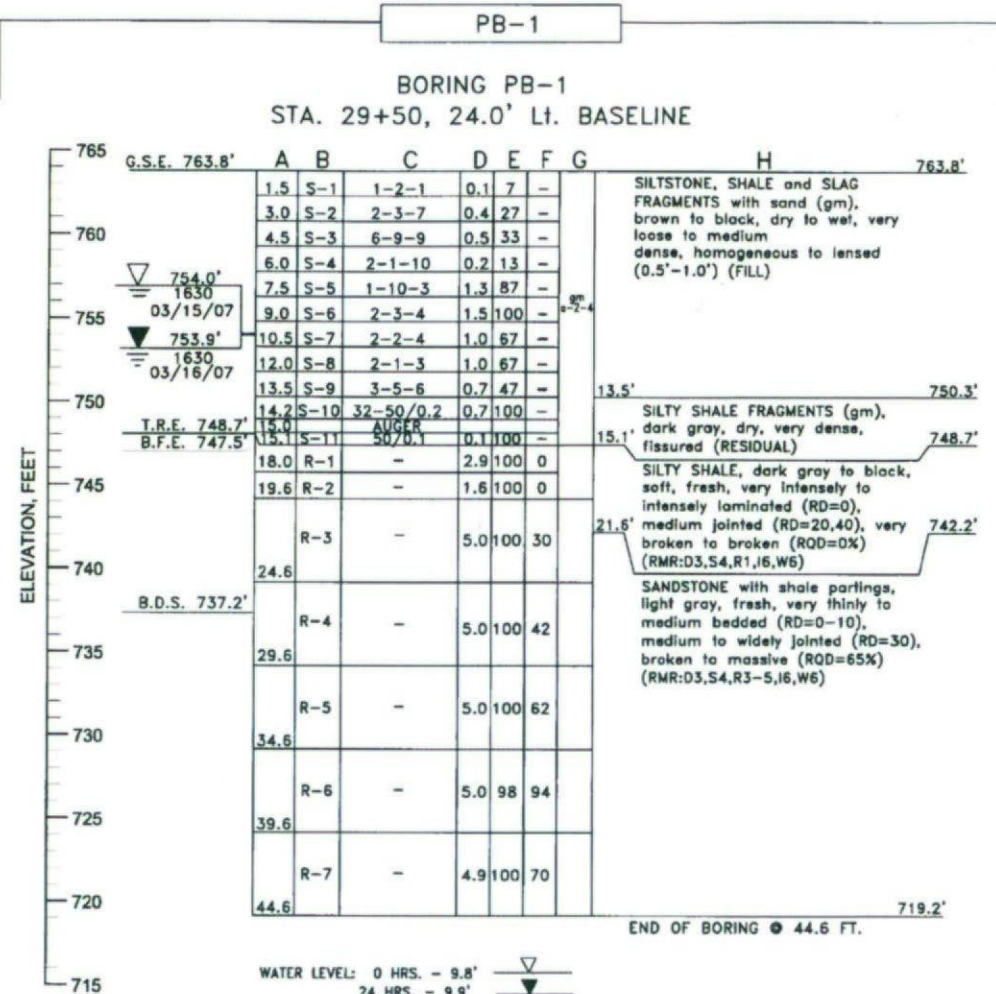
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County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
MOMENT, SHEAR & BEAM PROPERTIES
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 43 OF 46	

STRUCTURE BORING LOG 1 ABUTMENT 1



WATER LEVEL: 0 HRS. - 9.8'
24 HRS. - 9.9'

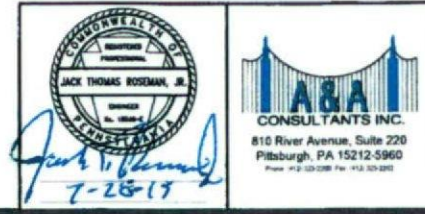
STARTED: 03/15/07 COMPLETED: 03/15/07
DRILLER: J. SACCANI / PENN DRILL
DRILLING METHOD: SOIL - 3 1/4 INCH ID HSA, 140 LB. SAFETY HAMMER, 30 INCH DROP.
ROCK - HQ-2 SPLIT INNER CORE BARREL WITH WATER.
RIG TYPE: CME - 45 TRUCK MOUNTED RIG WITH AUTOMATIC HAMMER.

WATER LEVEL: 0 HRS. - 10.1'
72 HRS. - 10.1'

STARTED: 03/16/07 COMPLETED: 03/16/07
DRILLER: J. SACCANI / PENN DRILL
DRILLING METHOD: SOIL - 3 1/4 INCH ID HSA, 140 LB. SAFETY HAMMER, 30 INCH DROP.
ROCK - HQ-2 SPLIT INNER CORE BARREL WITH WATER.
RIG TYPE: CME - 45 TRUCK MOUNTED RIG WITH AUTOMATIC HAMMER.

THE CLASSIFICATION OF THE MATERIALS ENCOUNTERED HAS BEEN VERIFIED.
JTR
INITIAL

THE INFORMATION, AS SUBMITTED TO THE BEST OF MY KNOWLEDGE, ACCURATELY REPRESENTS THE CONDITIONS ENCOUNTERED BY THE TEST BORING PROGRAM, INCLUDING BORING LOGS, EARTH SAMPLES, ROCK CORES, CLASSIFICATION OF MATERIALS, AND DEPTH OF BORINGS.
Jack T. Rosman 7/28/15
SOILS ENGINEER/GEOLOGIST DATE



- GENERAL NOTES:**
- THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND DATES INDICATED. SUBSURFACE CONDITIONS AND WATER LEVELS AT OTHER LOCATIONS MAY DIFFER FROM THE CONDITIONS REPORTED AT THE SPECIFIC LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE OF THE CONDITIONS AT THE BORING LOCATIONS.
 - THIS SHEET IS INCLUDED FOR THE CONVENIENCE OF THE DEPARTMENT AND IS NOT PART OF THE CONTRACT DRAWINGS (SEE SECTION 102.05 OF PUB. 40B).
 - BORING LOCATIONS AND ELEVATIONS DETERMINED BY SURVEY.
 - FOR ADDITIONAL GENERAL NOTES, LEGEND, SOIL AND ROCK DESCRIPTIONS, REFER TO PENNDOT BC-795 M.

LEGEND

COLUMN A - SAMPLE DEPTH IN FEET.
COLUMN B - SAMPLE NUMBER, OR CORE RUN.
COLUMN C - NUMBER OF BLOWS PER 0.5 FOOT ON SPLIT SPOON SAMPLER FOR STANDARD PENETRATION TEST (SPT).
COLUMN D - RECOVERY IN FEET.
COLUMN E - PERCENT SAMPLE RECOVERY.
COLUMN F - POCKET PENETROMETER (TSF) OR PERCENTAGE OF RQD.
COLUMN G - UNIFIED AND AASHTO SOIL CLASSIFICATIONS.
COLUMN H - SOIL AND ROCK DESCRIPTIONS.

▽ OR ▽ ELEV. GROUNDWATER ELEVATION IN FEET
HR./DATE TIME OF READING AND DATE.

G.S.E. GROUND SURFACE ELEVATION IN FEET.
T.R.S. PROPOSED TOP OF ROCK SOCKET ELEVATION IN FEET.
B.D.S. PROPOSED BOTTOM OF DRILLED SHAFT ELEVATION IN FEET.
P.T.E. PROPOSED PILE TIP ELEVATION IN FEET.
T.R.E. TOP OF ROCK ELEVATION IN FEET.
HSA HOLLOW STEM AUGERS.
B.C.E. BOTTOM OF CASING ELEVATION IN FEET.
*** AUGERED, NO SAMPLE.
B.F.E. BOTTOM OF FOOTING ELEVATION IN FEET.

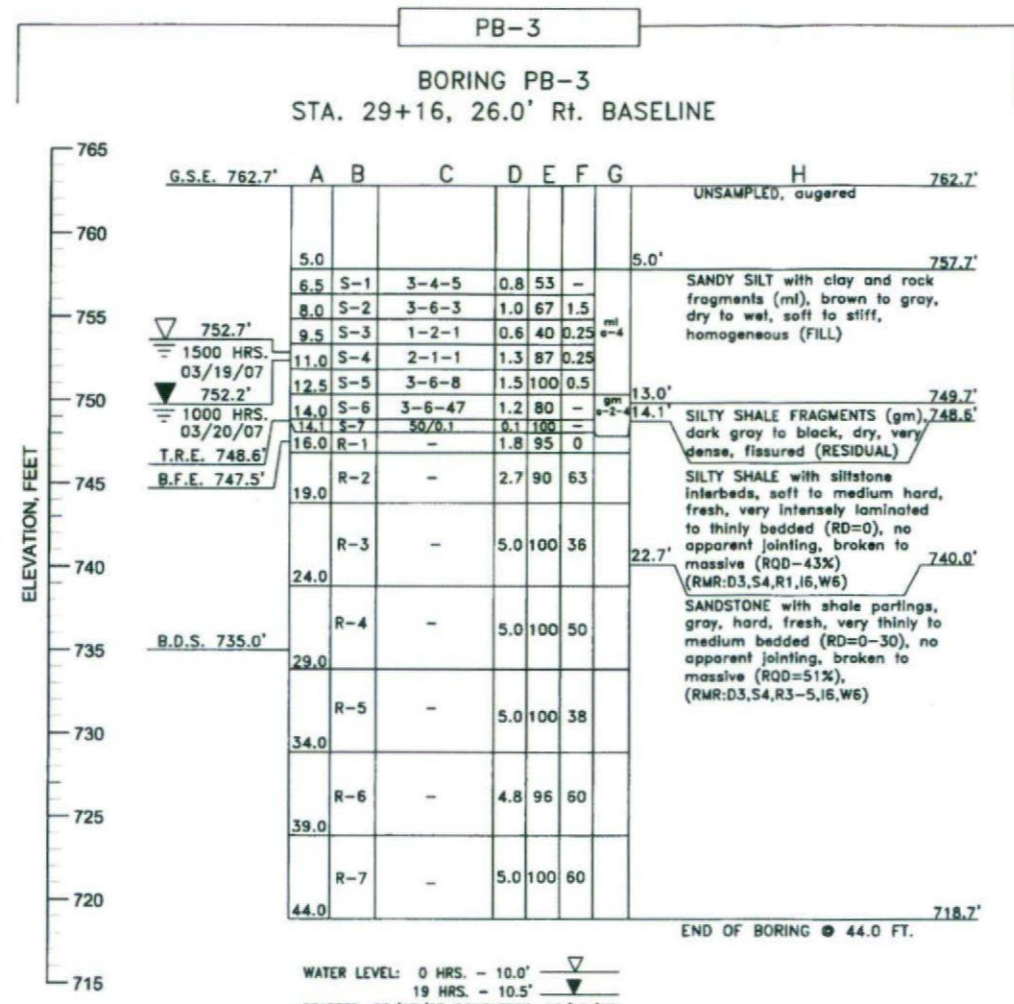
Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

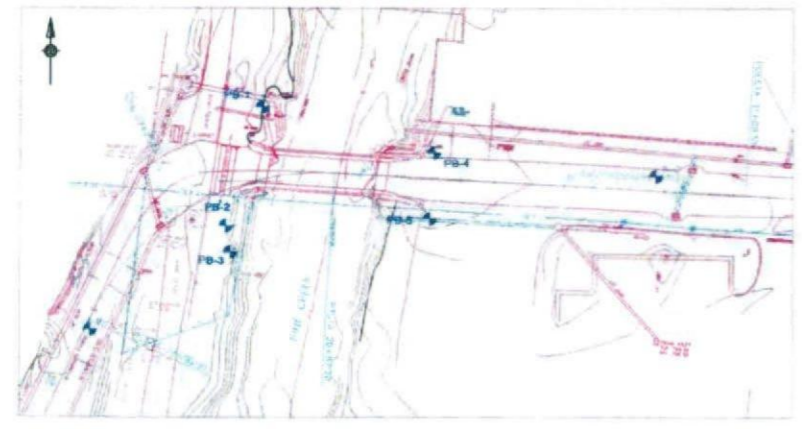
CONSTRUCTION DRAWINGS
STRUCTURE BORINGS - 1
PINE CREEK BRIDGE
No. 11
ALLEGHENY COUNTY, PENNSYLVANIA

DR BY CDR	TR BY	CH. BY JTR	26048
DATE SEPT. 10 2007	SCALE AS SHOWN	SHEET 44 OF 46	

Wingwall "B"



WATER LEVEL: 0 HRS. - 10.0'
 19 HRS. - 10.5'
 STARTED: 03/15/07 COMPLETED: 03/19/07
 DRILLER: J. SACCANI / PENN DRILL
 DRILLING METHOD: SOIL - 3 1/4 INCH ID HSA, 140 LB. SAFETY HAMMER, 30 INCH DROP.
 ROCK - NQ-2 SPLIT INNER CORE BARREL WITH WATER.
 RIG TYPE: CME - 45 TRUCK MOUNTED RIG WITH AUTOMATIC HAMMER.

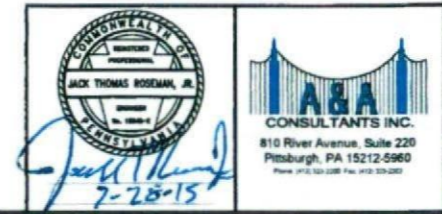


PLAN
SCALE: N.T.S.

THE CLASSIFICATION OF THE MATERIALS ENCOUNTERED HAS BEEN VERIFIED.

JTR
INITIAL

THE INFORMATION, AS SUBMITTED TO THE BEST OF MY KNOWLEDGE, ACCURATELY REPRESENTS THE CONDITIONS ENCOUNTERED BY THE TEST BORING PROGRAM, INCLUDING BORING LOGS, EARTH SAMPLES, ROCK CORES, CLASSIFICATION OF MATERIALS, AND DEPTH OF BORINGS.
 Jack T. Roseman, Jr. 7/28/15
 SOILS ENGINEER/GEOLOGIST DATE



GENERAL NOTES:

1. THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND DATES INDICATED. SUBSURFACE CONDITIONS AND WATER LEVELS AT OTHER LOCATIONS MAY DIFFER FROM THE CONDITIONS REPORTED AT THE SPECIFIC LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE OF THE CONDITIONS AT THE BORING LOCATIONS.
2. THIS SHEET IS INCLUDED FOR THE CONVENIENCE OF THE DEPARTMENT AND IS NOT PART OF THE CONTRACT DRAWINGS (SEE SECTION 102.05 OF PUB. 408).
3. BORING LOCATIONS AND ELEVATIONS DETERMINED BY SURVEY.
4. FOR ADDITIONAL GENERAL NOTES, LEGEND, SOIL AND ROCK DESCRIPTIONS, REFER TO PENNDOT BC-795 M.

LEGEND

- COLUMN A - SAMPLE DEPTH IN FEET.
- COLUMN B - SAMPLE NUMBER, OR CORE RUN.
- COLUMN C - NUMBER OF BLOWS PER 0.5 FOOT ON SPLIT SPOON SAMPLER FOR STANDARD PENETRATION TEST (SPT).
- COLUMN D - RECOVERY IN FEET.
- COLUMN E - PERCENT SAMPLE RECOVERY.
- COLUMN F - POCKET PENETROMETER (TSF) OR PERCENTAGE OF RQD.
- COLUMN G - UNIFIED AND AASHTO SOIL CLASSIFICATIONS.
- COLUMN H - SOIL AND ROCK DESCRIPTIONS.

- OR ELEV. GROUNDWATER ELEVATION IN FEET
- HR./DATE TIME OF READING AND DATE.
- G.S.E. GROUND SURFACE ELEVATION IN FEET.
- T.R.S. PROPOSED TOP OF ROCK SOCKET ELEVATION IN FEET.
- B.D.S. PROPOSED BOTTOM OF DRILLED SHAFT ELEVATION IN FEET.
- P.T.E. PROPOSED PILE TIP ELEVATION IN FEET.
- T.R.E. TOP OF ROCK ELEVATION IN FEET.
- HSA HOLLOW STEM AUGERS.
- B.C.E. BOTTOM OF CASING ELEVATION IN FEET.
- *** AUGERED, NO SAMPLE.
- BORING DRILLED 2007.
- B.F.E. BOTTOM OF FOOTING ELEVATION IN FEET.

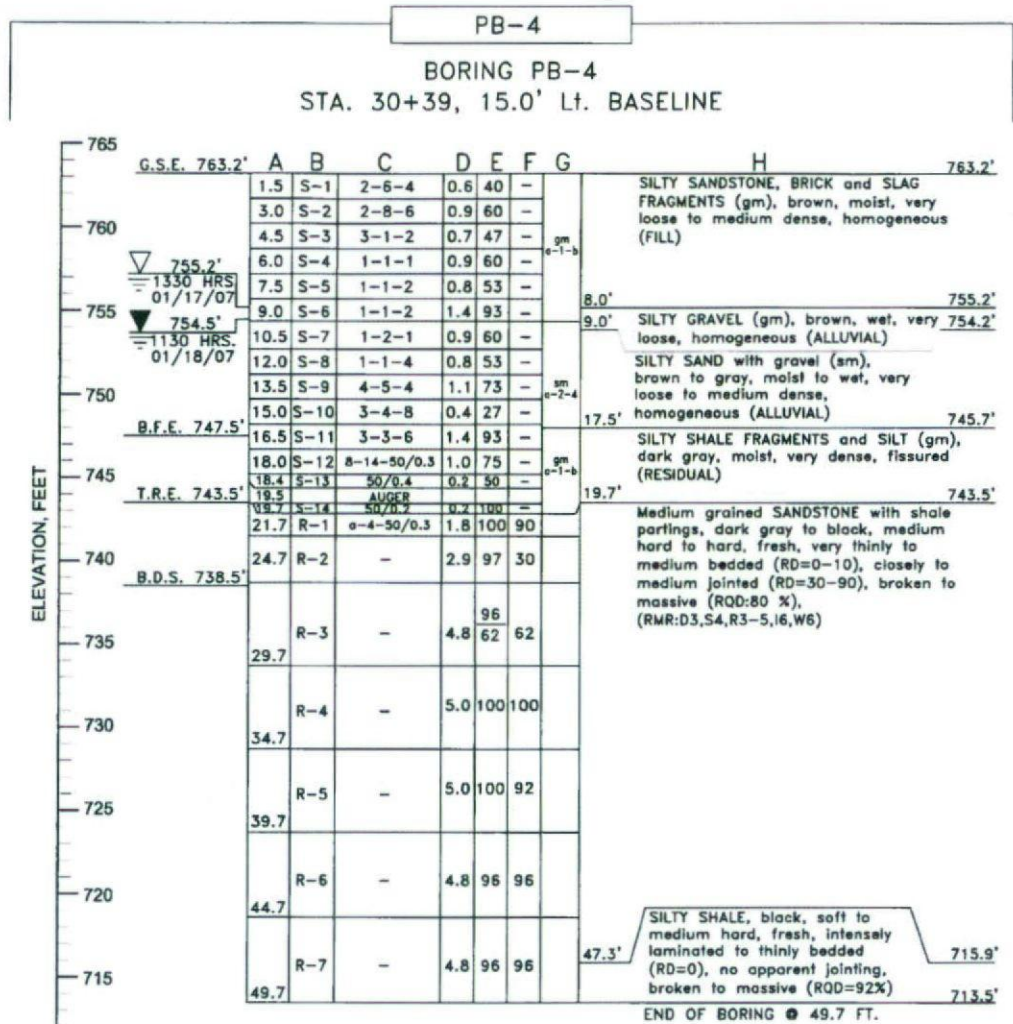
Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWINGS
STRUCTURE BORINGS - 2
PINE CREEK BRIDGE
No. 11
ALLEGHENY COUNTY, PENNSYLVANIA

DR. BY CDR	TR. BY	CH. BY JTR	26048
DATE SEPT. 10 2007	SCALE AS SHOWN	SHEET 45 OF 46	

STRUCTURE BORING LOG 3 ABUTMENT 2



WATER LEVEL: 0 HRS. - 8.0'
20 HRS. - 8.7'

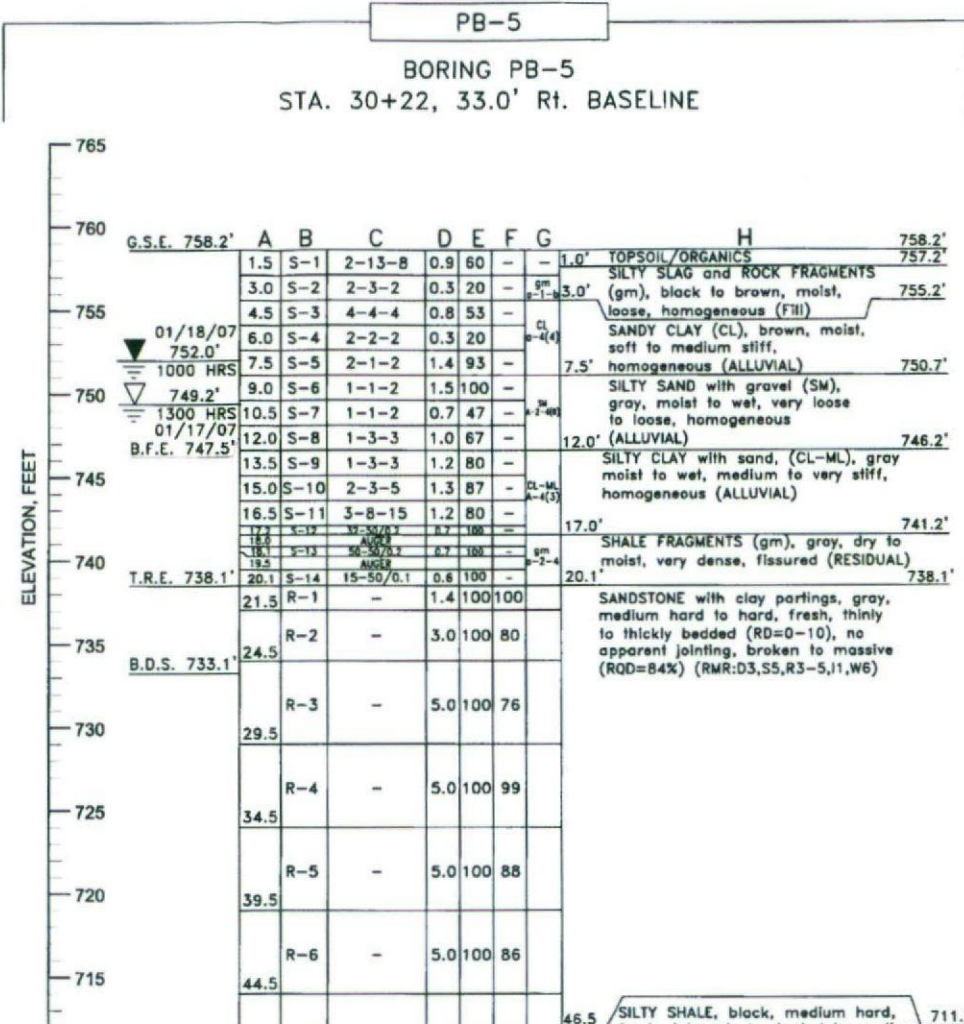
STARTED: 01/17/07 COMPLETED: 01/17/07
DRILLER: JIM LONG / PENN DRILL
DRILLING METHOD: SOIL - 3 1/4 INCH ID HSA, 140 LB. SAFETY HAMMER, 30 INCH DROP.
ROCK - NQ-2 SPLIT INNER CORE BARREL WITH WATER.
RIG TYPE: CME-45 TRUCK MOUNTED RIG WITH AUTOMATIC HAMMER.

THE CLASSIFICATION OF THE MATERIALS ENCOUNTERED HAS BEEN VERIFIED.

JTR
INITIAL

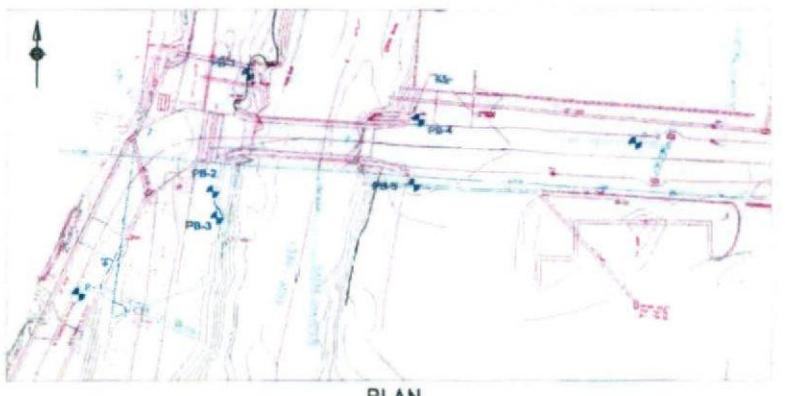
THE INFORMATION, AS SUBMITTED TO THE BEST OF MY KNOWLEDGE, ACCURATELY REPRESENTS THE CONDITIONS ENCOUNTERED BY THE TEST BORING PROGRAM, INCLUDING BORING LOGS, EARTH SAMPLES, ROCK CORES, CLASSIFICATION OF MATERIALS, AND DEPTH OF BORINGS.

Justin J. Thomas 7-28-15
SOILS ENGINEER/GEOLOGIST DATE



WATER LEVEL: 0 HRS. - 9.0'
21 HRS. - 6.2'

STARTED: 01/16/07 COMPLETED: 01/16/07
DRILLER: JIM LONG / PENN DRILL
DRILLING METHOD: SOIL - 3 1/4 INCH ID HSA, 140 LB. SAFETY HAMMER, 30 INCH DROP.
ROCK - NQ-2 SPLIT INNER CORE BARREL WITH WATER.
RIG TYPE: CME-45 TRUCK MOUNTED RIG WITH AUTOMATIC HAMMER.



PLAN
SCALE: N.T.S

- GENERAL NOTES:**
- THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND DATES INDICATED. SUBSURFACE CONDITIONS AND WATER LEVELS AT OTHER LOCATIONS MAY DIFFER FROM THE CONDITIONS REPORTED AT THE SPECIFIC LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE OF THE CONDITIONS AT THE BORING LOCATIONS.
 - THIS SHEET IS INCLUDED FOR THE CONVENIENCE OF THE DEPARTMENT AND IS NOT PART OF THE CONTRACT DRAWINGS (SEE SECTION 102.05 OF PUB. 408).
 - BORING LOCATIONS AND ELEVATIONS DETERMINED BY SURVEY.
 - FOR ADDITIONAL GENERAL NOTES, LEGEND, SOIL AND ROCK DESCRIPTIONS, REFER TO PENNDOT BC-795 M.

- LEGEND**
- COLUMN A - SAMPLE DEPTH IN FEET.
 - COLUMN B - SAMPLE NUMBER, OR CORE RUN.
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 - COLUMN D - RECOVERY IN FEET.
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 - COLUMN G - UNIFIED AND AASHTO SOIL CLASSIFICATIONS.
 - COLUMN H - SOIL AND ROCK DESCRIPTIONS.
- ▽ OR ▽ ELEV. GROUNDWATER ELEVATION IN FEET
HR./DATE TIME OF READING AND DATE.
- G.S.E. GROUND SURFACE ELEVATION IN FEET.
T.R.S. PROPOSED TOP OF ROCK SOCKET ELEVATION IN FEET.
B.D.S. PROPOSED BOTTOM OF DRILLED SHAFT ELEVATION IN FEET.
P.T.E. PROPOSED PILE TIP ELEVATION IN FEET.
T.R.E. TOP OF ROCK ELEVATION IN FEET.
HSA HOLLOW STEM AUGERS.
B.C.E. BOTTOM OF CASING ELEVATION IN FEET.
*** AUGERED, NO SAMPLE.
BORING DRILLED 2007.
B.F.E. BOTTOM OF FOOTING ELEVATION IN FEET.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWINGS
STRUCTURE BORINGS - 3
PINE CREEK BRIDGE
No. 11
ALLEGHENY COUNTY, PENNSYLVANIA

DR. BY: CDR	TR. BY:	CH. BY: JTR	26048
DATE: JAN. 2008	SCALE: AS SHOWN	SHEET 46 OF 46	

ABA CONSULTANTS INC.
810 River Avenue, Suite 220
Pittsburgh, PA 15212-5960
Phone: 412-531-2208 Fax: 412-531-2202

Justin J. Thomas 7-28-15

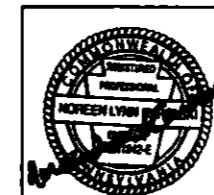
ALLEGHENY COUNTY EAST PENNVIEW STREET

CROSS SECTIONS

STA 28 + 38.00 TO STA. 30 + 54.00
TOTAL SHEETS 7

3/24/2016

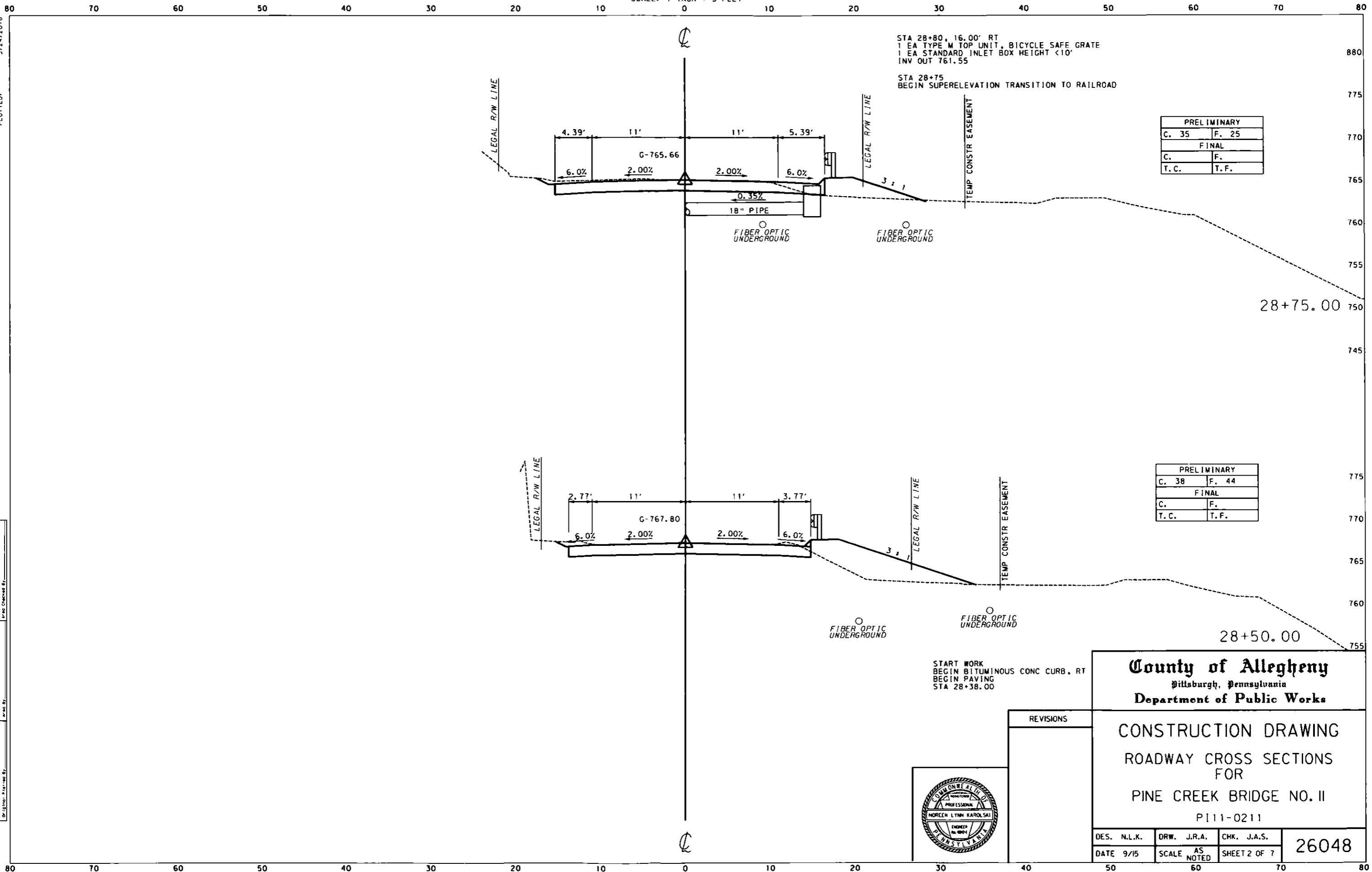
J:\PROJ\76051-00\CA00\roadway\CONST\AP.inh CK Const_xsections update 12-8-15.dgn



REVISIONS	

County of Allegheny Pittsburgh, Pennsylvania Department of Public Works			
CONSTRUCTION DRAWING ROADWAY CROSS SECTIONS FOR PINE CREEK BRIDGE NO. II P111-0211			
DES. N.L.K.	DRW. J.R.A.	CHK. J.A.S.	26048
DATE 9/15	SCALE AS NOTED	SHEET 1 OF 7	

PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS
 SCALE: 1 INCH = 5 FEET



STA 28+80, 16.00' RT
 1 EA TYPE M TOP UNIT, BICYCLE SAFE GRATE
 1 EA STANDARD INLET BOX HEIGHT <10'
 INV OUT 761.55

STA 28+75
 BEGIN SUPERELEVATION TRANSITION TO RAILROAD

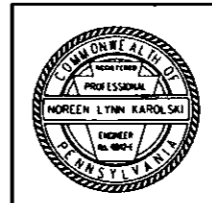
PRELIMINARY	
C. 35	F. 25
FINAL	
C.	F.
T.C.	T.F.

PRELIMINARY	
C. 38	F. 44
FINAL	
C.	F.
T.C.	T.F.

START WORK
 BEGIN BITUMINOUS CONC CURB, RT
 BEGIN PAVING
 STA 28+38.00

County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 ROADWAY CROSS SECTIONS
 FOR
 PINE CREEK BRIDGE NO. II
 P111-0211

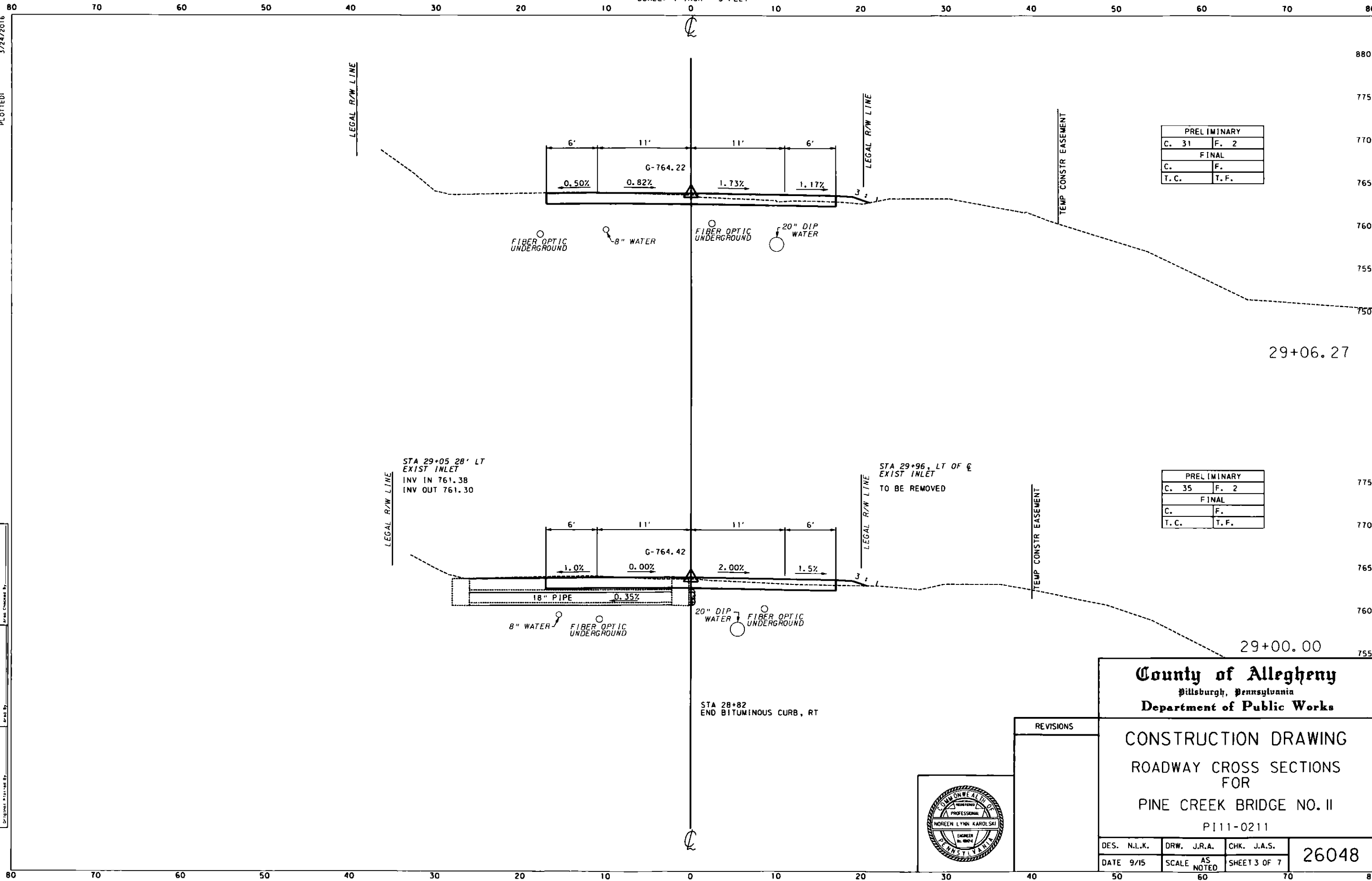


REVISIONS	

DES. N.L.K.	DRW. J.R.A.	CHK. J.A.S.	26048
DATE 9/15	SCALE AS NOTED	SHEET 2 OF 7	

OPERATOR: J:\PROJECTS\11-00\CADD\roadway\CONSTR\Pine Ck Const.xsections update 12-8-15.dgn
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 PLOTTED: 3/24/2016
 FINISH PLotted By: _____
 FINISH CHECKED BY: _____
 DATE: _____
 DATE: _____
 DATE: _____

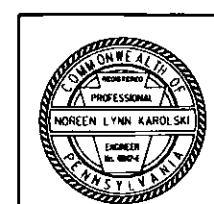
PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
 CROSS SECTIONS
 SCALE: 1 INCH = 5 FEET



PRELIMINARY	
C. 31	F. 2
FINAL	
C.	F.
T.C.	T.F.

PRELIMINARY	
C. 35	F. 2
FINAL	
C.	F.
T.C.	T.F.

OPERATOR: J:\PROJECTS\6051-00\CADD\roadway\CONSTR\pin.crk Cons L-sections update 12-8-15.dgn
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 Designer: _____
 Checker: _____
 Date: _____
 Project: _____



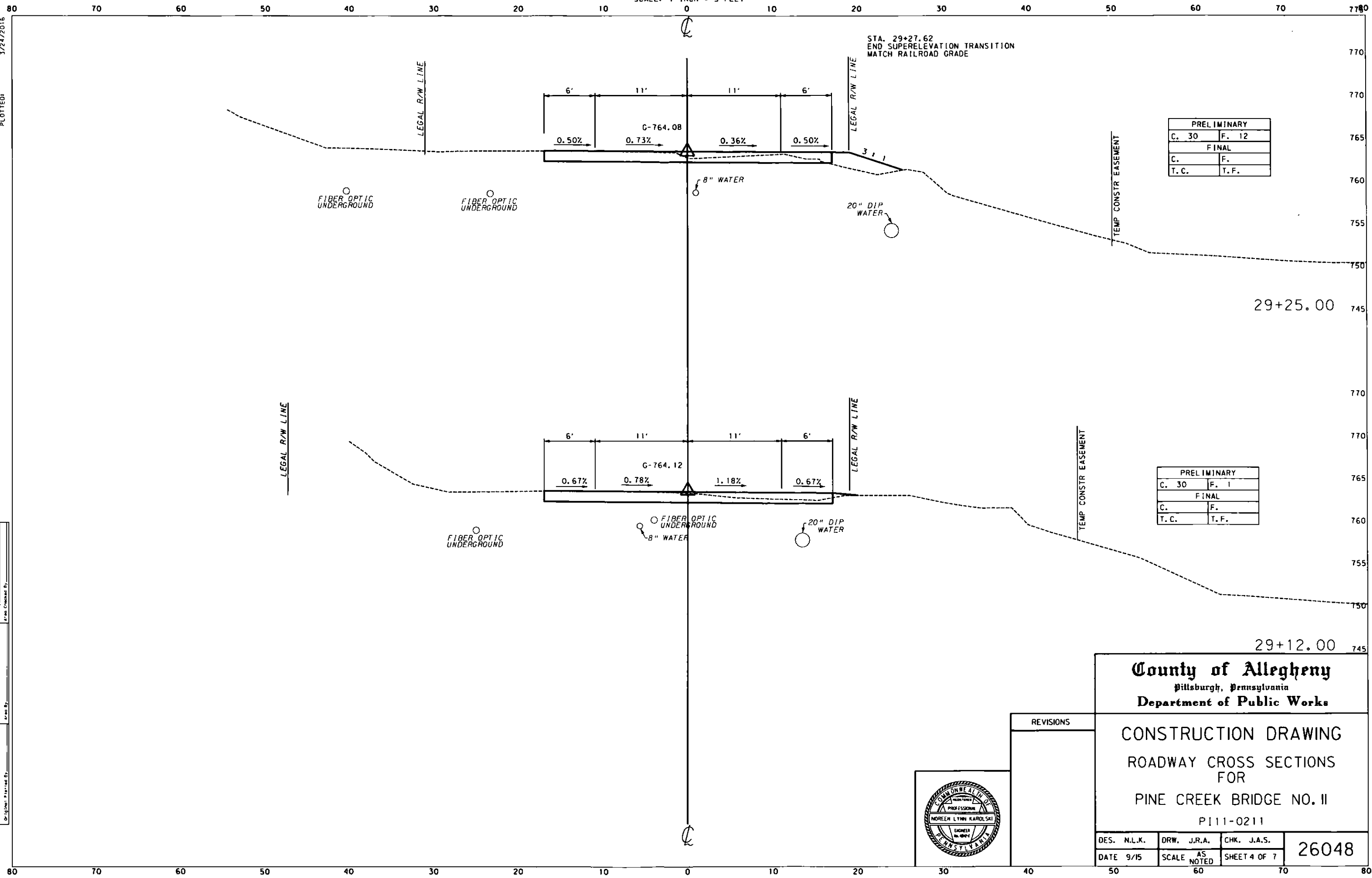
REVISIONS		

County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 ROADWAY CROSS SECTIONS
 FOR
 PINE CREEK BRIDGE NO. II
 PI11-0211

DES. N.L.K.	DRW. J.R.A.	CHK. J.A.S.	26048
DATE 9/15	SCALE AS NOTED	SHEET 3 OF 7	

PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
 CROSS SECTIONS
 SCALE: 1 INCH = 5 FEET



STA. 29+27.62
 END SUPERELEVATION TRANSITION
 MATCH RAILROAD GRADE

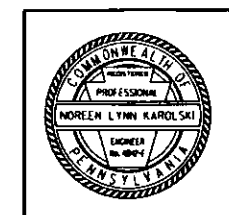
PRELIMINARY	
C. 30	F. 12
FINAL	
C.	F.
T.C.	T.F.

PRELIMINARY	
C. 30	F. 1
FINAL	
C.	F.
T.C.	T.F.

J:\PROJ\76051-00\CADD\roadway\CONSTR\p1ne Ck Const\csections update 12-8-15.dgn
 3/24/2016
 PLOTTED

OPERATOR:
 FILE NAME:
 \$\$\$\$\$\$

Application No. _____
Drawn By _____
Checked By _____
Approved By _____
Date _____
Project No. _____
Sheet No. _____
Scale _____
Author _____
Area Checked By _____

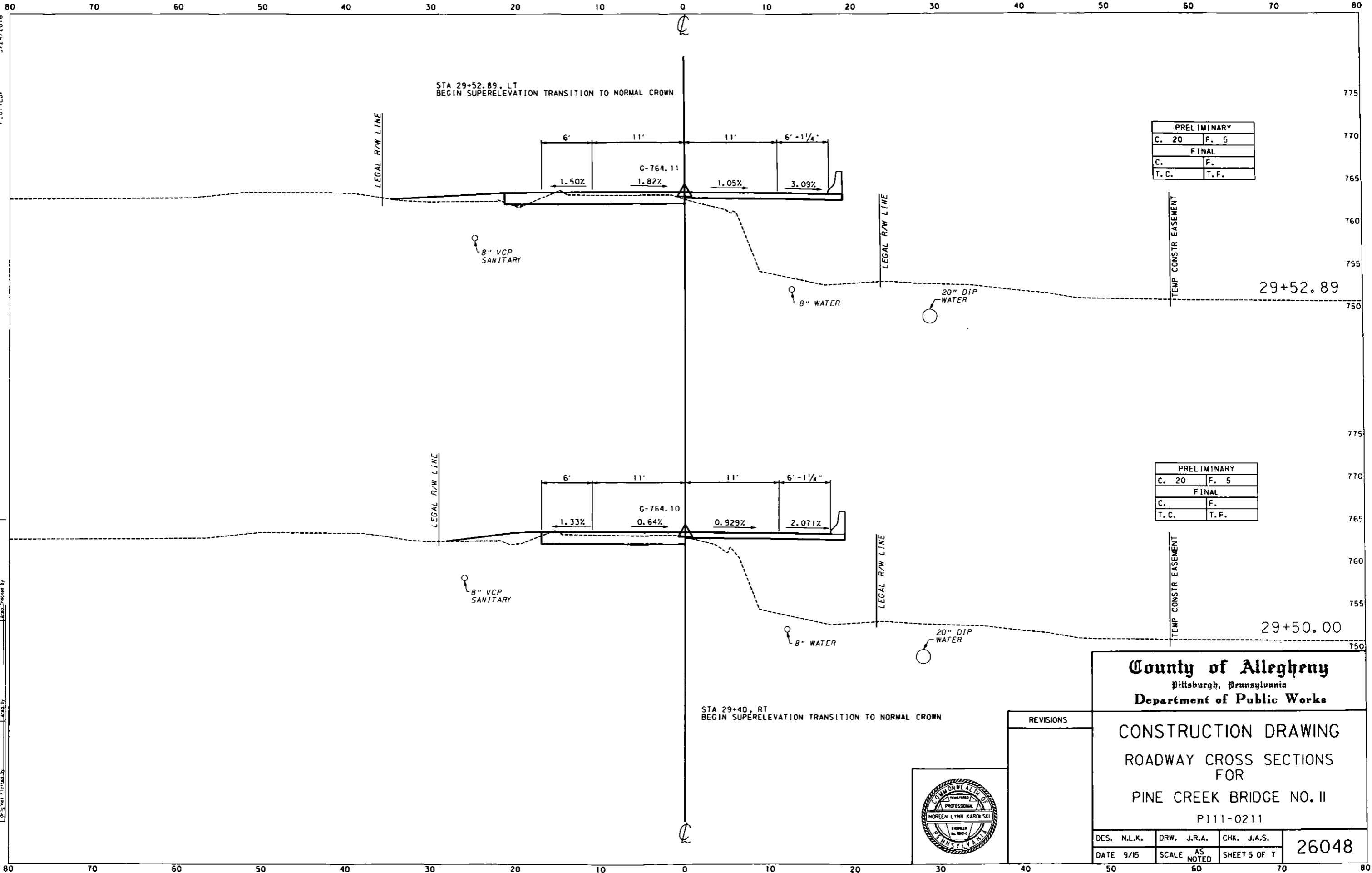


County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

REVISIONS	

CONSTRUCTION DRAWING
 ROADWAY CROSS SECTIONS
 FOR
 PINE CREEK BRIDGE NO. II
 P111-0211

DES. N.L.K.	DRW. J.R.A.	CHK. J.A.S.	26048
DATE 9/15	SCALE AS NOTED	SHEET 4 OF 7	



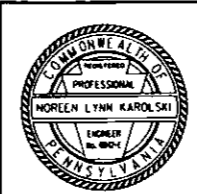
PRELIMINARY	
C. 20	F. 5
FINAL	
C.	F.
T. C.	T. F.

PRELIMINARY	
C. 20	F. 5
FINAL	
C.	F.
T. C.	T. F.

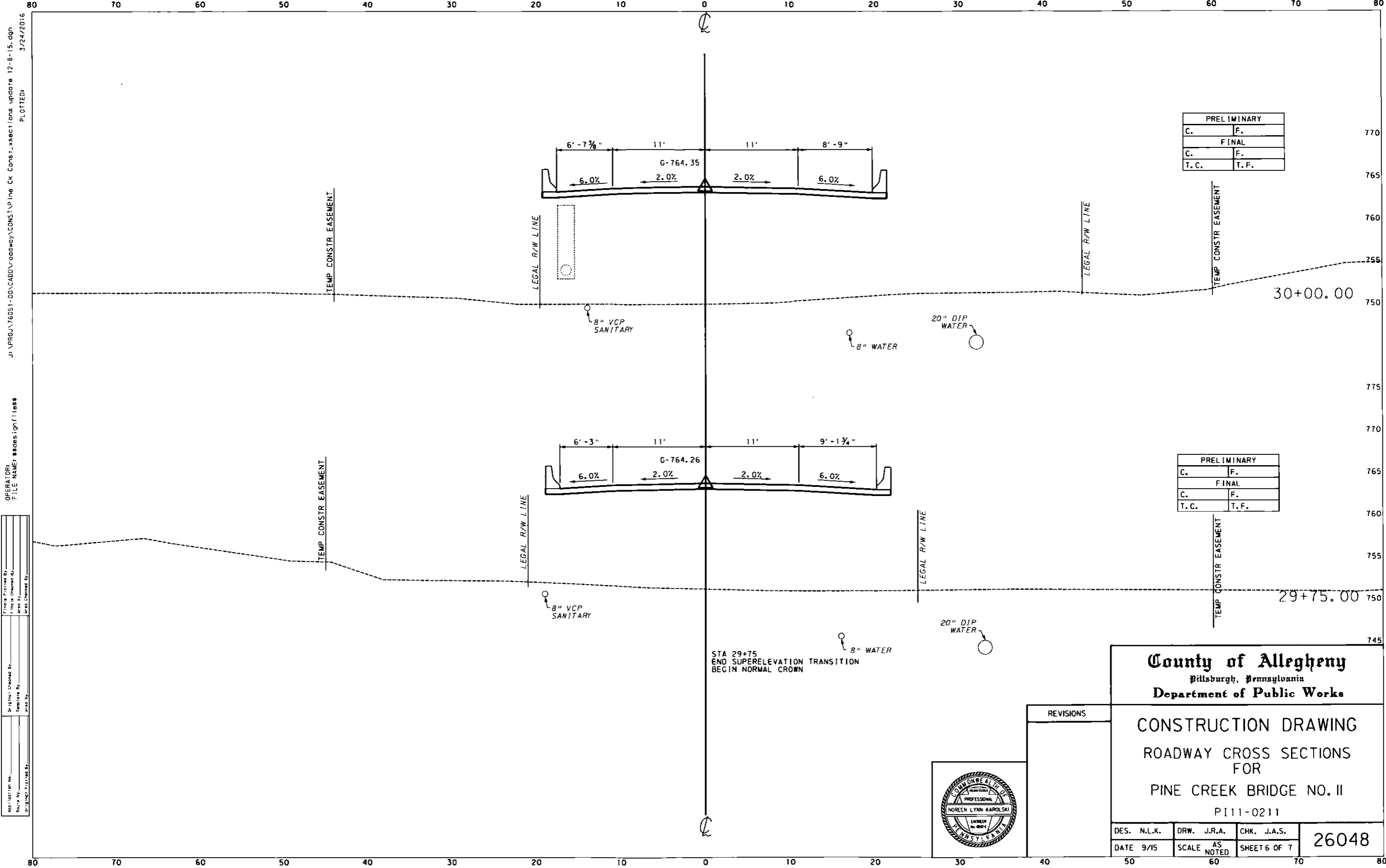
County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 ROADWAY CROSS SECTIONS
 FOR
 PINE CREEK BRIDGE NO. II
 PI11-0211

DES. N.L.K.	DRW. J.R.A.	CHK. J.A.S.	26048
DATE 9/15	SCALE AS NOTED	SHEET 5 OF 7	



OPERATOR: J:\PROJECTS\6051-00\CADD\ROADWAY\CONSTR\VP Line Ck Cons 1_xsections update 12-8-15.dgn
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 PLOTTED: 3/24/2016
 Application No. _____
 Review No. _____
 Original Plotted By _____
 Date Plotted _____
 Original Checked By _____
 Template By _____
 Area By _____
 Date Checked By _____



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 PLOTTED: 3/24/2016

OPERATOR:
 FILE NAME: sscdes1.gmf.11ess

Finals Plotted By:	
Finals Checked By:	
Revised By:	
Drawn By:	
Checked By:	
Approved By:	

PRELIMINARY	
C.	F.
FINAL	
C.	F.
T.C.	T.F.

PRELIMINARY	
C.	F.
FINAL	
C.	F.
T.C.	T.F.

STA 29+75
 END SUPERELEVATION TRANSITION
 BEGIN NORMAL CROWN

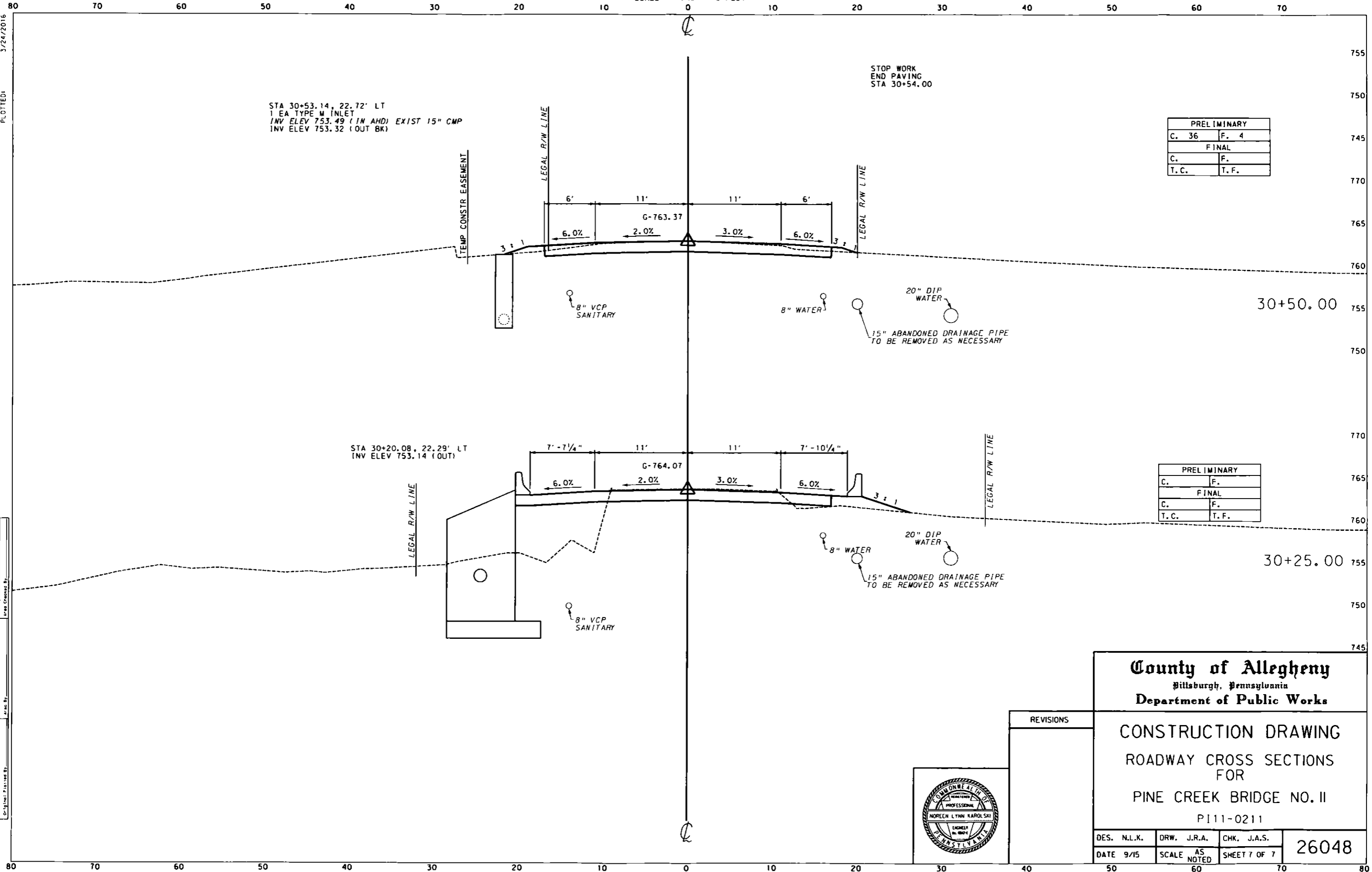


County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

REVISIONS	

CONSTRUCTION DRAWING
 ROADWAY CROSS SECTIONS
 FOR
 PINE CREEK BRIDGE NO. II
 P111-0211

DES. N.L.K.	DRW. J.R.A.	CHK. J.A.S.	26048
DATE 9/15	SCALE AS NOTED	SHEET 6 OF 7	



STA 30+53.14, 22.72' LT
 1 EA TYPE M INLET
 INV ELEV 753.49 (IN AHD) EXIST 15" CMP
 INV ELEV 753.32 (OUT BK)

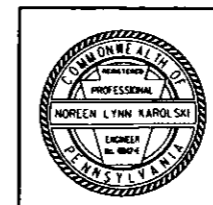
STA 30+20.08, 22.29' LT
 INV ELEV 753.14 (OUT)

STOP WORK
 END PAVING
 STA 30+54.00

PRELIMINARY	
C. 36	F. 4
FINAL	
C.	F.
T.C.	T.F.

PRELIMINARY	
C.	F.
FINAL	
C.	F.
T.C.	T.F.

OPERATOR: J:\PROJ\16051-00\CADD\roadway\CONSTR\VP line CK Const\1.xsct\16051-00-15.dgn
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 Final Checked By: _____
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 Original Plotted By: _____



County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 ROADWAY CROSS SECTIONS
 FOR
 PINE CREEK BRIDGE NO. II
 P111-0211

DES. N.L.K.	DRW. J.R.A.	CHK. J.A.S.	26048
DATE 9/15	SCALE AS NOTED	SHEET 7 OF 7	