



May 2, 2024

Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
400 North Street  
Harrisburg, PA 17120

Re: Emergency Application of the Department of Transportation of the Commonwealth of Pennsylvania and the City of Pittsburgh for approval to abolish the public above grade crossing and remove the bridge carrying the abandoned cartway of Pittsburgh & West Virginia Railway Company (and the West Side Belt Railroad Company) above S.R. 0051, DOT Number 472 968G in the City of Pittsburgh, Allegheny County and the allocation of costs incident thereto.

Dear Secretary Chiavetta:

Enclosed for filing, please find the Application of the Department of Transportation.

A copy of this Application and Exhibits has been served upon the parties in the Certificate of Service to the Application.

Sincerely,

---

Michele Acitelli, P.E.  
Utility and Grade Crossing Manager  
Department of Transportation  
Engineering District 11-0

#### Attachments

cc: Parties of Record  
Mark Chappell, P.E., Chief, Utilities and Right-of-Way Section, 7<sup>th</sup> Floor, CKB  
Karen Cummings, Senior Counsel, Office of Chief Counsel, 9<sup>th</sup> Floor, CKB  
William M. Sinick, P.E., Manager, Technical Utility Services, PUC, 3<sup>rd</sup> Floor, CKB

**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Emergency Application of the Department of Transportation of the Commonwealth of Pennsylvania and the City of Pittsburgh for approval to abolish the public above grade crossing and remove the bridge carrying the abandoned cartway of Pittsburgh & West Virginia Railway Company (and the West Side Belt Railroad Company) above S.R. 0051, DOT Number 472 968G in the City of Pittsburgh, Allegheny County and the allocation of costs incident thereto.

Application  
Docket No. \_\_\_\_\_

**Electronically Filed**

EMERGENCY APPLICATION OF THE COMMONWEALTH OF PENNSYLVANIA,  
DEPARTMENT OF TRANSPORTATION AND THE CITY OF PITTSBURGH

Applicants, the Commonwealth of Pennsylvania, Department of Transportation and the City of Pittsburgh, file this Emergency Application pursuant to the provisions of 66 Pa.C.S § 2702 and 52 Pa. Code § 5.13 for the abolishment, alteration, and removal of the public above grade crossing where the abandoned cartway of Pittsburgh & West Virginia Railway Company (and the West Side Belt Railroad Company) crosses S.R. 0051 at DOT Number 472 968G in the City of Pittsburgh, Allegheny County as described below:

1. The name and address of Applicants are as follows:

Pennsylvania Department of Transportation  
Douglas M. Seeley, P.E.,  
Assistant District Executive – Design  
Engineering District 11-0  
45 Thoms Run Road  
Bridgeville, PA 15017  
[dseeley@pa.gov](mailto:dseeley@pa.gov)

City of Pittsburgh  
Jeffrey Skalican, Deputy Director  
Department of Mobility and Infrastructure  
City County Building, Suite 301  
414 Grant Street  
Pittsburgh, PA 15219  
[jeff.skalican@pittsburghpa.gov](mailto:jeff.skalican@pittsburghpa.gov)

2. The name and address of attorney for the Applicants are as follows:

Karen L. Cummings, Senior Counsel  
Pennsylvania Department of Transportation,  
Office of Chief Counsel,  
PO Box 8212  
Harrisburg, PA 17105-8212

Krycia Kubiak, City Solicitor  
City of Pittsburgh, Department of Law  
City-County Building, Suite 313  
414 Grant Street  
Pittsburgh, PA 15219

3. The first Applicant is an agency of Commonwealth of Pennsylvania, organized and existing under the Administrative Code of 1929, 71 P.S. § 511, et seq. and generally 36 P.S. § 670 - 401 et seq. The second Applicant is a City formed under the laws of the Commonwealth of Pennsylvania.

4. The names and addresses of the persons, parties and entities concerned in, or affected by the proposed construction, to the best of the Applicants' knowledge, are shown in the certificate of service.

In addition to those served, the Applicants requests that the following also receive service of all documents in this matter:

Mark J. Chappell, P.E., Chief  
Right of Way, Utilities and Grade Crossing  
Division  
Pennsylvania Department of Transportation  
PO Box 3362  
Harrisburg, PA 17105-3362  
[machappell@pa.gov](mailto:machappell@pa.gov)

Karen L. Cummings, Senior Counsel  
Office of Chief Counsel  
Pennsylvania Department of Transportation  
PO Box 8212  
Harrisburg, PA 17105-8212  
[kcummings@pa.gov](mailto:kcummings@pa.gov)

Eric J. Setzler, P.E., Chief Engineer  
City of Pittsburgh  
Department of Mobility and Infrastructure  
414 Grant Street, Suite 301  
Pittsburgh, PA 15219  
[eric.setzler@pittsburghpa.gov](mailto:eric.setzler@pittsburghpa.gov)

5. The Applicants are seeking approval to abolish the public above grade crossing and alter and remove the railroad bridge carrying the abandoned cartway of Pittsburgh & West Virginia Railway

Company (and the West Side Belt Railroad Company) above S.R. 0051, DOT Number 472 968G. A Location Map is attached hereto and marked as Exhibit “A”. Also attached hereto and marked as Exhibit “B” are the Final Structure Plans for the project.

6. The Applicants are not aware of recent Public Utility Commission proceedings for this crossing. The only available applicable records relate to the original crossing construction, as filed under Application Docket No. 20890-1929, with the Public Service Commission of the Commonwealth of Pennsylvania.

7. The average daily traffic for State Route 0051 at this crossing is 34,337 vehicles with 5% trucks.

8. The estimated total cost for the construction activities is \$ 3,100,000. The funding for the project is anticipated to be 100% Federal funds.

9. The bridge was constructed for the Pittsburgh & West Virginia Railway Company (and the West Side Belt Railroad Company) in or around 1929 and the line was retired in or around 1960.

10. The eventual successor to the Pittsburgh & West Virginia Railway Company is the Wheeling and Lake Erie Railroad (W&LE), however the line containing the structure was not part of that succession, as it was retired prior to 1990, when WL&E assumed ownership. The retired structure is now owned by the City of Pittsburgh and the former railroad corridor on either side is owned by private entities. No public right-of-way or railway corridor exists.

11. The retired structure is a three-span steel I-beam and riveted girder bridge supported by steel columns and concrete abutments. The structure is in a deteriorated state with the superstructure rated as Poor and the substructure rated as Serious. In recent years, the bridge has required

temporary supports and steel repairs to its columns and beams to ensure the safety of the public traveling below the deck. The City of Pittsburgh has recently closed the bridge to all vehicles.

12. Due to serious structural concerns and in the interest of expediency and safety of the traveling public, the structure is scheduled for demolition early this summer. The Department of Transportation has agreed to manage the demolition project, as it crosses S.R. 0051. Letting of the Project (ECMS 117472, S.R. 51, Section 17A) was completed on April 18, 2024, with an anticipated Contractor Notice to Proceed on May 20, 2024.

13. Legal disputes amongst the adjacent property owners and the City of Pittsburgh are on-going. As part of those legal disputes, the parties were ordered to coordinate with the PUC regarding the status of the abandoned crossing. The PUC has no available records of abandonment of the public crossing, so an application is being filed.

14. A conference of all parties of interest should be held to discuss the proposed project. The Department of Transportation is requesting the meeting be held, either virtually or in person, as soon as possible due to the critical condition of the existing structure, safety concerns and advancement of the current construction contract for demolition.

Wherefore, Applicant respectfully requests that the Public Utility Commission approve this Application.

Respectfully Submitted:



Digitally signed by dseeley  
Date: 2024.05.02 09:20:44-04'00'

---

Douglas M. Seeley, P.E.  
Assistant District Executive-Design  
Department of Transportation  
Engineering District 11-0  
45 Thoms Run Road  
Bridgeville, PA 15017  
Phone: (412) 429-5005  
Email: [dseeley@pa.gov](mailto:dseeley@pa.gov)

Dated: \_\_\_\_\_

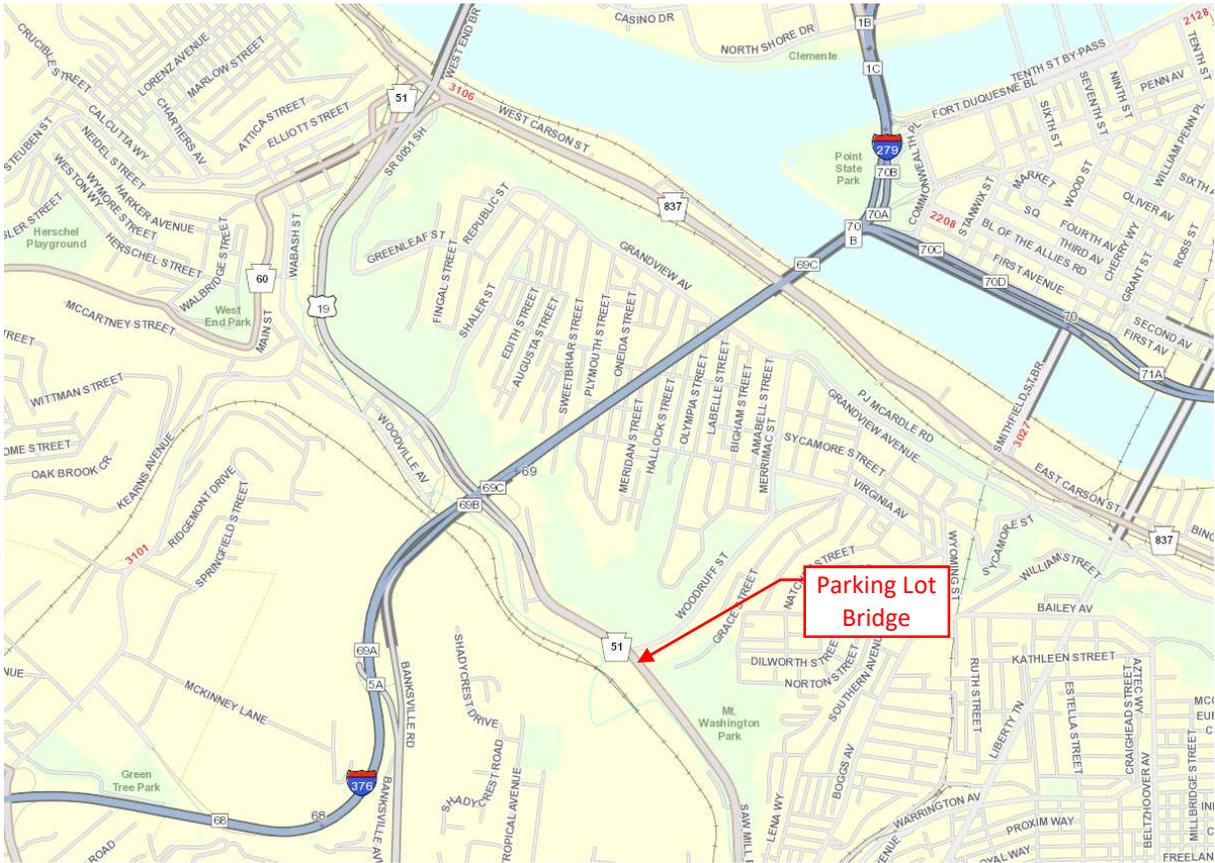
---

Jeffrey Skalican (May 2, 2024 08:48 EDT)

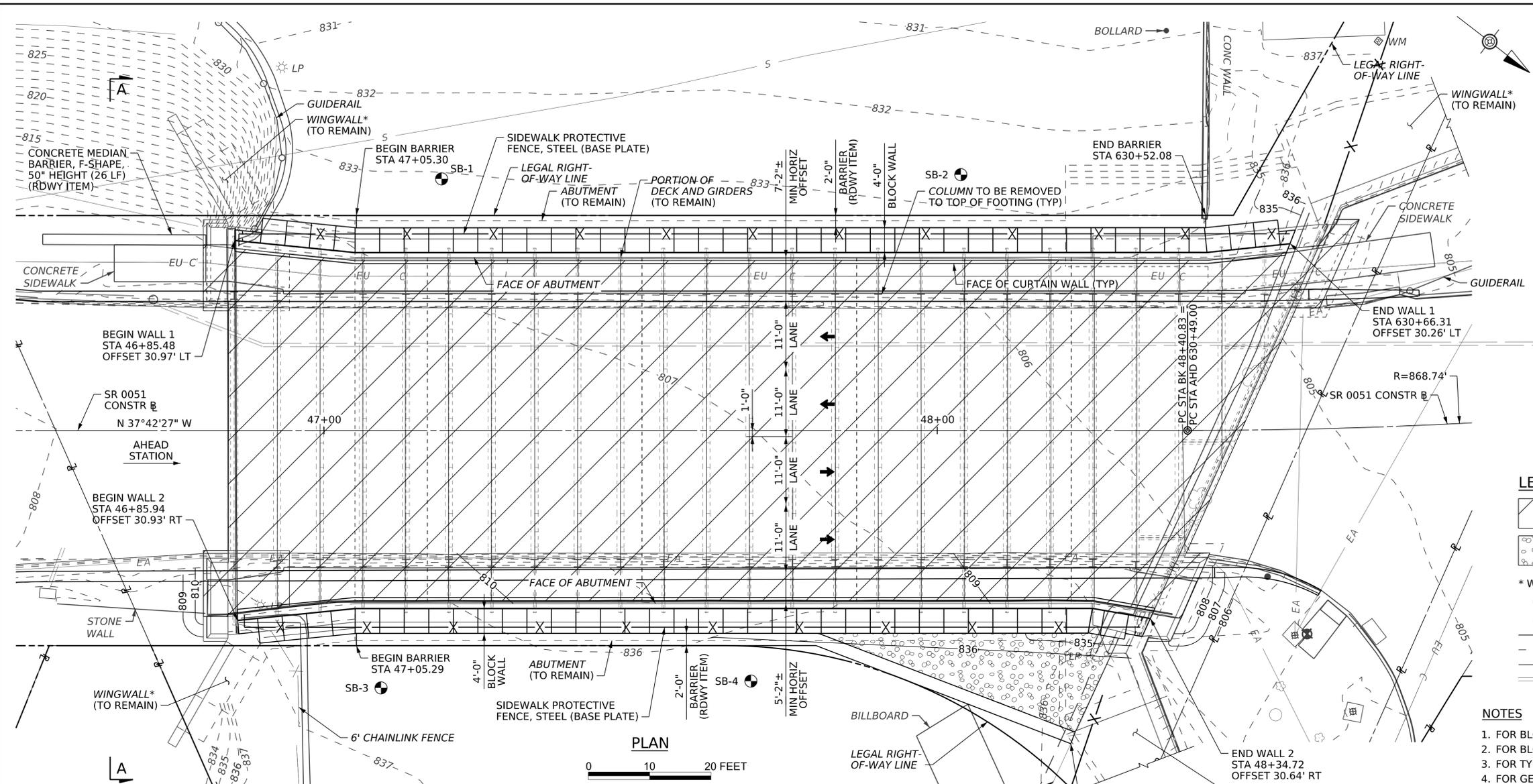
Jeffrey Skalican  
Deputy Director  
City of Pittsburgh  
Department of Mobility and Infrastructure  
City-County Building, Suite 301  
414 Grant Street  
Pittsburgh, PA 15219  
Phone: (412) 255-2373  
[jeff.skalican@pittsburghpa.gov](mailto:jeff.skalican@pittsburghpa.gov)

Dated: 5/2/2024

# ECMS 117472 -- SR 51 17A -- Parking Lot Bridge



Parking Lot Bridge at Woodruff St Location Maps



INDEX OF DRAWINGS	
SHEET NO.	TITLE
1	GENERAL PLAN & ELEVATION
2	GENERAL NOTES & QUANTITIES
3	TYPICAL SECTION
4	STAKE-OUT PLAN
5	BLOCK WALL 1 PLAN & ELEVATION
6	BLOCK WALL 2 PLAN & ELEVATION
7	BLOCK WALL DETAILS - 1
8	BLOCK WALL DETAILS - 2
9	CAST-IN-PLACE WALL - 1
10	CAST-IN-PLACE WALL - 2
11	REINFORCEMENT BAR SCHEDULE
12	DEMOLITION PLAN
13	DETERIORATED CONCRETE REPAIR DETAILS
14	STRUCTURE BORINGS - 1
15	STRUCTURE BORINGS - 2
16	STRUCTURE BORINGS - 3

HORIZONTAL CURVE DATA	VERTICAL CURVE DATA
SR 0051 CONSTR	MATCH EXISTING
PI STA 632+13.87	
$\Delta = 21^\circ 29' 30''$ LT	
$D = 06^\circ 35' 43''$	
$T = 164.87'$	
$L = 325.86'$	
$R = 868.74'$	
$E = 15.51'$	
PC STA 630+49.00	
PT STA 633+74.86	

- LEGEND**
- LIMITS OF REMOVAL OF EXISTING STRUCTURE
  - INDICATES LIMITS OF ROCK, CLASS R-3 (RDWY ITEM)
  - \* WINGWALL EXTENSIONS NOT SHOWN. WINGWALLS ARE NOT BEING ALTERED.
  - DIRECTION OF TRAFFIC
  - BORING LOCATION
  - 5 EXISTING SEWER
  - 832 EXISTING CONTOUR
  - 807 PROPOSED CONTOUR
  - EXISTING DRAINAGE
  - EA EXISTING AERIAL ELECTRIC
  - EU EXISTING ELECTRIC UNDERGROUND
  - C EXISTING CONDUIT UNDERGROUND

- NOTES**
- FOR BLOCK WALL 1 PLAN AND ELEVATION, SEE SHEET 5.
  - FOR BLOCK WALL 2 PLAN AND ELEVATION, SEE SHEET 6.
  - FOR TYPICAL SECTION, SEE SHEET 3.
  - FOR GENERAL NOTES, SEE SHEET 2.
  - MAINTAIN ACCESS TO ALCOSAN MANHOLE AT STA 46+74.12, OFFSET 21.74' LT DURING CONSTRUCTION. COORDINATE WORK WITH ALCOSAN.
  - FOR LIST OF SUPPLEMENTAL DRAWINGS, SEE SHEET 2.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

BMS STR ID: 02-7301-0000-3934 MPMS/ECMS PROJ: 117472 BRKEY: 70368 (WALL 2)  
 BMS STR ID: 02-7301-0000-3935 MPMS/ECMS PROJ: 117472 BRKEY: 70369 (WALL 1)

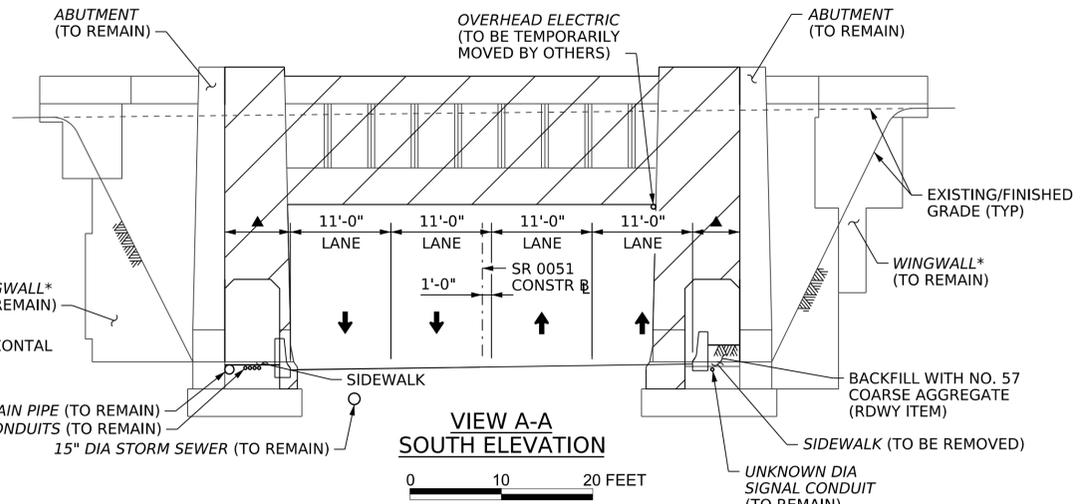
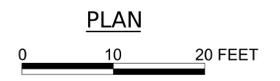
**COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF TRANSPORTATION**

**ALLEGHENY COUNTY  
SR 7301 SEC LOC**

PARKING LOT BRIDGE OVER S.R. 0051  
BRIDGE DEMOLITION AND BLOCK WALL

**GENERAL PLAN & ELEVATION**

RECOMMENDED  DISTRICT BRIDGE ENGINEER	Digitally signed by Shane Szalankiewicz, P.E. Date: 2024.04.02 10:32:17-04'00'	SHEET <u>1</u> OF <u>16</u> & SUPPLEMENTAL DRAWINGS
		<b>L - 560</b>

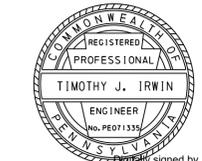


- SCOPE OF WORK**
- SEAL CRACKS AND REPAIR DETERIORATED CONCRETE AT ABUTMENTS.
  - REMOVE EXISTING BRIDGE SUPERSTRUCTURE AND PIERS DOWN TO TOP OF FOOTING.
  - INSTALL BLOCK WALL 1 INCLUDING SIDEWALK PROTECTIVE FENCE, STEEL (BASE PLATE).
  - INSTALL BLOCK WALL 2 INCLUDING SIDEWALK PROTECTIVE FENCE, STEEL (BASE PLATE).

**AS-DRILLED BORING LOCATIONS**

BORING	STATION	OFFSET
SB-1	47+19	41' LT
SB-2	48+04	42' LT
SB-3	47+09	42' RT
SB-4	47+70	41' RT

CITY OF PITTSBURGH APPROVAL  
**Eric J. Setzler** Digitally signed by Eric J. Setzler  
 Date: 2024.04.01 15:40:32 -04'00'  
 CHIEF ENGINEER



PREPARED BY  
**STV**  
**STV Incorporated**  
 444 LIBERTY AVENUE, SUITE 800  
 PITTSBURGH, PA 15222

DATE 04/01/2024

c:\bms\stev-pw-01\irwin\dwg\m6718102005117A\_GPE.dgn  
 4/1/2024 12:30:42 PM [irwin]

**GENERAL NOTES:**

**DESIGN SPECIFICATION**

1. AASHTO LRFD BRIDGE DESIGN SPECIFICATION 2017, AND AS SUPPLEMENTED BY DESIGN MANUAL, PART 4, DECEMBER 2019 (INCLUDING LATEST REVISIONS).
2. DESIGN SHALL BE IN ACCORDANCE WITH THE LOAD AND RESISTANCE FACTOR DESIGN METHOD (LRFD).

**DESIGN LIVE LOADS**

1. A LIVE LOAD SURCHARGE LOADING EQUIVALENT TO AN ADDITIONAL 3 FEET OF SOIL WAS INCLUDED IN THE WALL DESIGN.
2. THE PROPOSED BLOCK WALL WAS NOT DESIGNED FOR IMPACT LOADING.
3. THE PROPOSED CONCRETE MEDIAN BARRIER, F-SHAPE, 32" HEIGHT AND CONCRETE MEDIAN BARRIER WITH DRAINAGE SLOTS, F-SHAPE, 32" HEIGHT PLACED BEHIND THE PROPOSED BLOCK WALL WERE NOT DESIGNED FOR IMPACT LOADING.

**GENERAL**

1. PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH SPECIFICATIONS, PUBLICATION 408/2020, AASHTO/AWS D1.5M/D1.5, 2015 BRIDGE WELDING CODE (USE AASHTO/AWS D1.1/D1.1M, 2015 FOR WELDING NOT COVERED IN AASHTO/AWS D1.5M/D1.5, 2015), AND CONTRACT SPECIAL PROVISIONS.
2. PROVIDE 2 INCHES CONCRETE COVER ON REINFORCEMENT BARS, EXCEPT AS NOTED.
3. USE CLASS AA CEMENT CONCRETE. EXCEPT USE NO. 8 COURSE AGGREGATE FOR REPAIR DETERIORATED CONCRETE - CONVENTIONAL METHOD. USE SHOTCRETE PER SPECIAL PROVISIONS FOR REPAIR DETERIORATED CONCRETE - SHOTCRETE METHOD.
4. USE CLASS A CEMENT CONCRETE IN CAST-IN-PLACE WALLS, CURTAIN WALLS, AND BLOCKS.
5. A HIGHER CLASS CONCRETE MAY BE SUBSTITUTED FOR A LOWER CLASS CONCRETE AT NO ADDITIONAL COST TO THE DEPARTMENT, IF APPROVED BY THE DISTRICT BRIDGE ENGINEER.
6. PROVIDE GRADE 60 REINFORCING STEEL BARS THAT MEET THE REQUIREMENTS OF ASTM A615/A615M, A996/A996M, OR A706/A706M. 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 A996/A996M REINFORCEMENT BARS WHERE BENDING OR WELDING OF THE REINFORCEMENT BARS IS INDICATED.
7. USE EPOXY-COATED REINFORCEMENT BARS, EXCEPT AS NOTED.
8. GALVANIZED REINFORCING STEEL BARS MAY BE SUBSTITUTED FOR EPOXY COATED REINFORCING BARS AT NO ADDITIONAL COST TO THE DEPARTMENT.
9. RAKE-FINISH ALL HORIZONTAL CONSTRUCTION JOINTS, EXCEPT AS NOTED.
10. VERIFY ALL DIMENSIONS AND GEOMETRY OF THE EXISTING STRUCTURE IN THE FIELD AS NECESSARY FOR PROPER FIT OF THE PROPOSED CONSTRUCTION.
11. CHAMFER EXPOSED CONCRETE EDGES 3/4 IN X 3/4 IN, EXCEPT AS NOTED.
12. ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED.
13. PROVIDE MINIMUM EMBEDMENT AND SPLICE LENGTHS IN ACCORDANCE WITH STANDARD DRAWING BC-736M, UNLESS OTHERWISE INDICATED.
14. BRIDGE IS CLOSED TO TRAFFIC. DO NOT PLACE CONSTRUCTION VEHICLES, MATERIALS, ETC. WHILE S.R. 0051 IS OPEN TO TRAFFIC BELOW THE STRUCTURE. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE SAFE WORKING LOAD ON THE BRIDGE DURING THE DEMOLITION/CONSTRUCTION PROCESS.
15. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFE ERECTION OF ALL STRUCTURES. PROVIDE ALL NECESSARY BRACING AND SUPPORTS.
16. DO NOT USE ADHESIVE ANCHORS IN A TENSION APPLICATION FOR PERMANENT INSTALLATIONS.
17. AN ACI CERTIFIED ANCHOR INSTALLER IS REQUIRED FOR THE INSTALLATION OF ADHESIVE ANCHORS FOR TEMPORARY INSTALLATIONS, INCLUDING DURING CONSTRUCTION.
18. SITE CLASS IS NOT CLASS E.

**EXISTING STRUCTURE PLANS**

1. DO NOT CONSIDER ANY OF THE DATA ON THE EXISTING STRUCTURE SUPPLIED IN THE ORIGINAL DESIGN DRAWINGS OR MADE AVAILABLE TO YOU BY THE DEPARTMENT OR ITS AUTHORIZED AGENTS AS POSITIVE REPRESENTATIONS OF ANY OF THE CONDITIONS THAT YOU WILL ENCOUNTER IN THE FIELD.
2. DATA AND DIMENSIONS USED (AS SHOWN ON THE CONTRACT DESIGN DRAWINGS) FOR THE PROPOSED REHABILITATION WERE OBTAINED FROM THE EXISTING PLANS. ACTUAL FIELD CONDITIONS COULD BE SOMEWHAT DIFFERENT. THEREFORE, SINCE ALL PROPOSED REPAIRS MUST FIT EXISTING CONDITIONS, THE CONTRACTOR MUST VERIFY ALL CRITICAL DIMENSIONS, ELEVATIONS, AND GEOMETRY TO ASSURE THE PROPER FIT OF ALL NEW REPAIRS.
3. 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 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. ORIGINAL STRUCTURE PLANS: SAW MILL RUN BOULEVARD BRIDGE NO. 2 PLANS (MARCH 11, 1929)

**REHABILITATION NOTES**

1. PERFORM ALL WORK IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN.
2. COAT ALL EXISTING CONCRETE THAT IS TO COME IN CONTACT WITH NEW CEMENT CONCRETE WITH EPOXY BONDING COMPOUND JUST PRIOR TO PLACING THE NEW CONCRETE. BLAST CLEAN THE EXISTING CONCRETE THOROUGHLY PRIOR TO APPLICATION OF THE EPOXY. THE COST OF CLEANING AND EPOXY APPLICATION IS INCIDENTAL TO THE CLASS OF CONCRETE FOR WHICH IT IS APPLIED. THE EPOXY BONDING COMPOUND IS TYPE 2, GRADE 2 AS DESCRIBED IN ASTM-C881.
3. CONSTRUCTION DETAILS OTHER THAN THOSE SHOWN CONFORM TO THE STANDARD DRAWINGS.
4. CLEAN ALL EXISTING REINFORCEMENT THAT IS TO REMAIN AND REMOVE ANY RUST, DUST, OR OTHER FOREIGN MATERIALS AND COAT WITH AN EPOXY PAINT PRIOR TO PLACING NEW CONCRETE.
5. REMOVE ALL LOOSE AND DELAMINATED CONCRETE TO PROVIDE SOUND BOND BETWEEN EXISTING CONCRETE AND NEW CONCRETE.
6. REPAIR ANY AREAS DAMAGED BEYOND THE REMOVAL LIMITS AT NO EXPENSE TO THE DEPARTMENT.
7. THE DEPARTMENT'S REPRESENTATIVE RESERVES THE RIGHT TO CHANGE THE NATURE AND LIMITS OF WORK TO ASSURE A SATISFACTORY REPAIR.
8. CONCRETE CORE SAMPLES WERE TAKEN FROM THE EXISTING ABUTMENTS AND WERE TESTED FOR CONCRETE STRENGTH. TEST RESULTS INDICATE THAT A CONCRETE STRENGTH OF f'c = 5,000 PSI MAY BE USED FOR ITEMS RELATED TO THE EXISTING ABUTMENTS.

**UTILITY NOTES**

1. COORDINATE, LOCATE, AND CONDUCT ALL WORK RELATED TO PUBLIC AND PRIVATE UTILITIES IN ACCORDANCE WITH PUBLICATION 408, SECTIONS 105.06 AND 107.12.

**PROPOSED SCOPE OF WORK:**

1. SEE DEMOLITION PLAN.

**ENVIRONMENTAL**

1. THE EXISTING BRIDGE STRUCTURAL MEMBERS DO NOT CONTAIN LEAD PAINT AND OTHER TOXIC MATERIALS (SUCH AS CADMIUM, CHROMIUM, ARSENIC, ETC) BASED ON LABORATORY TESTING. LEAD-BASED PAINT WAS CONFIRMED TO BE PRESENT ON CONDUIT ASSOCIATED WITH THE ATTACHED LIGHTING FEATURES.
2. NO KNOWN ASBESTOS CONTAINING MATERIALS ARE PRESENT ON THE SITE.
3. FILL MATERIAL GENERATED FROM THE PROJECT LIMITS MAY NOT BE CLASSIFIED AS CLEAN FILL UNTIL CHARACTERIZED PER THE PADEP MoPP. SEE SPECIAL PROVISIONS.

TABULATION OF STRUCTURE BID ITEMS & APPROXIMATE QUANTITIES					
BLOCK WALL, AS DESIGNED, L-560					
ITEM NO	DESCRIPTION	UNIT	WALL 1	WALL 2	TOTAL
5018-0050	REMOVAL OF PORTION OF EXISTING BRIDGE, L-560 (1)(4)	LS			
1001-1120	CLASS A CEMENT CONCRETE	CY	35	32	67
1002-0052	REINFORCEMENT BARS, EPOXY COATED	LB	2739	2429	5168
1002-0073	REINFORCEMENT BARS, GALVANIZED	LB	534	460	994
1003-0002	DOWEL HOLES, 6"	EA	254	224	478
1003-0007	DOWEL HOLES, 16"	EA	6	6	12
5016-0102	SIDEWALK PROTECTIVE FENCE, STEEL (BASE PLATE) (1)	LF	172	147	319
1019-0040	PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALERS, REINFORCED CONCRETE SUBSTRUCTURE SURFACES)	SY	571	450	1021
1091-0331	EPOXY INJECTION CRACK SEAL (2)	LF	66	20	86
9000-0029	VIBRATION AND MOVEMENT MONITORING CONTROL (1)	LS			
9000-9001	BLOCK WALL (1)	SF	999	853	1852
9000-9002	REPAIR DETERIORATED CONCRETE (1)(2)	SF	221	154	375
9000-9003	WEEP HOLE CLEARING (1)(3)	EA	26	24	50

- (1) SEE CONTRACT SPECIAL PROVISIONS.
- (2) ACTUAL LOCATION AND REPAIR AREAS AS DIRECTED.
- (3) ACTUAL LOCATION AS DIRECTED.
- (4) INCLUDES (93) - 54" DEEP DOWEL HOLES PER SECTION 1003.

**LIST OF ABBREVIATIONS**

- ABUT - ABUTMENT
- B - BASELINE
- BOT - BOTTOM
- BRG - BEARING
- C - CENTERLINE
- CLR - CLEAR
- CONSTR - CONSTRUCTION
- CY - CUBIC YARD
- CONC - CONCRETE
- DWG - DRAWING
- ELEV - ELEVATION
- EQ - EQUAL
- ES - EQUAL SPACING
- EXIST - EXISTING
- EXP - EXPANSION
- FF - FRONT FACE
- FOU - FIBER OPTICAL UNIT
- JT - JOINT
- MAX - MAXIMUM
- RDWY - ROADWAY
- SEG - SEGMENT
- SHLDR - SHOULDER
- SPA - SPACING
- SR - STATE ROUTE
- STA - STATION
- TRANS - TRANSVERSE
- TYP - TYPICAL
- LMC - LATEX MODIFIED CONCRETE
- LR - LEGISLATIVE ROUTE
- MIN - MINIMUM
- MPT - MAINTENANCE AND PROTECTION OF TRAFFIC
- NO - NUMBER
- OFF - OFFSET
- P/S - PRESTRESSED
- RF - REAR FACE
- UNO - UNLESS NOTED OTHERWISE

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

BMS STR ID: 02-7301-0000-3934 MPMS/ECMS PROJ: 117472 BRKEY: 70368 (WALL 2)  
 BMS STR ID: 02-7301-0000-3935 MPMS/ECMS PROJ: 117472 BRKEY: 70369 (WALL 1)

**COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF TRANSPORTATION**

**ALLEGHENY COUNTY  
SR 7301 SEC LOC**

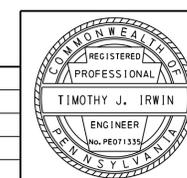
PARKING LOT BRIDGE OVER S.R. 0051  
BRIDGE DEMOLITION AND BLOCK WALL

**GENERAL NOTES & QUANTITIES**

SHEET 2 OF 16

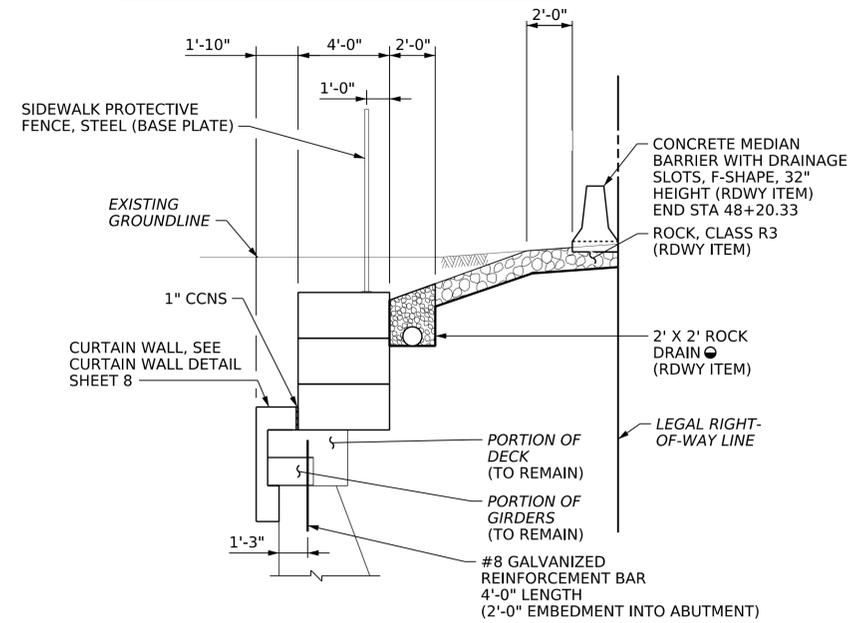
**L - 560**

SUBSURFACE DRAINS	RC-30M	2/27/2023
CONCRETE MEDIAN BARRIER	RC-57M	9/1/2023
INLET AND OUTLET PROTECTION	RC-72M	2/8/2019
PROTECTIVE FENCE	BC-701M	11/23/2022
REINFORCEMENT BAR FABRICATION DETAILS	BC-736M	11/23/2022
DESCRIPTION	DWG. NO.	APP. DATE

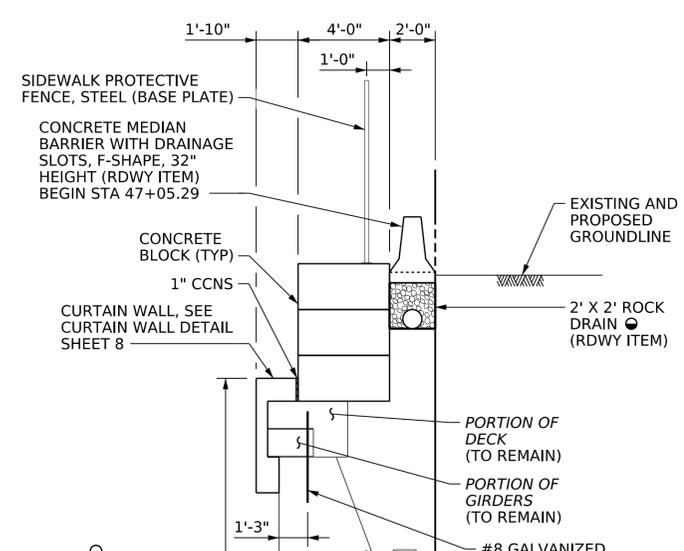


**SUPPLEMENTAL DRAWINGS**

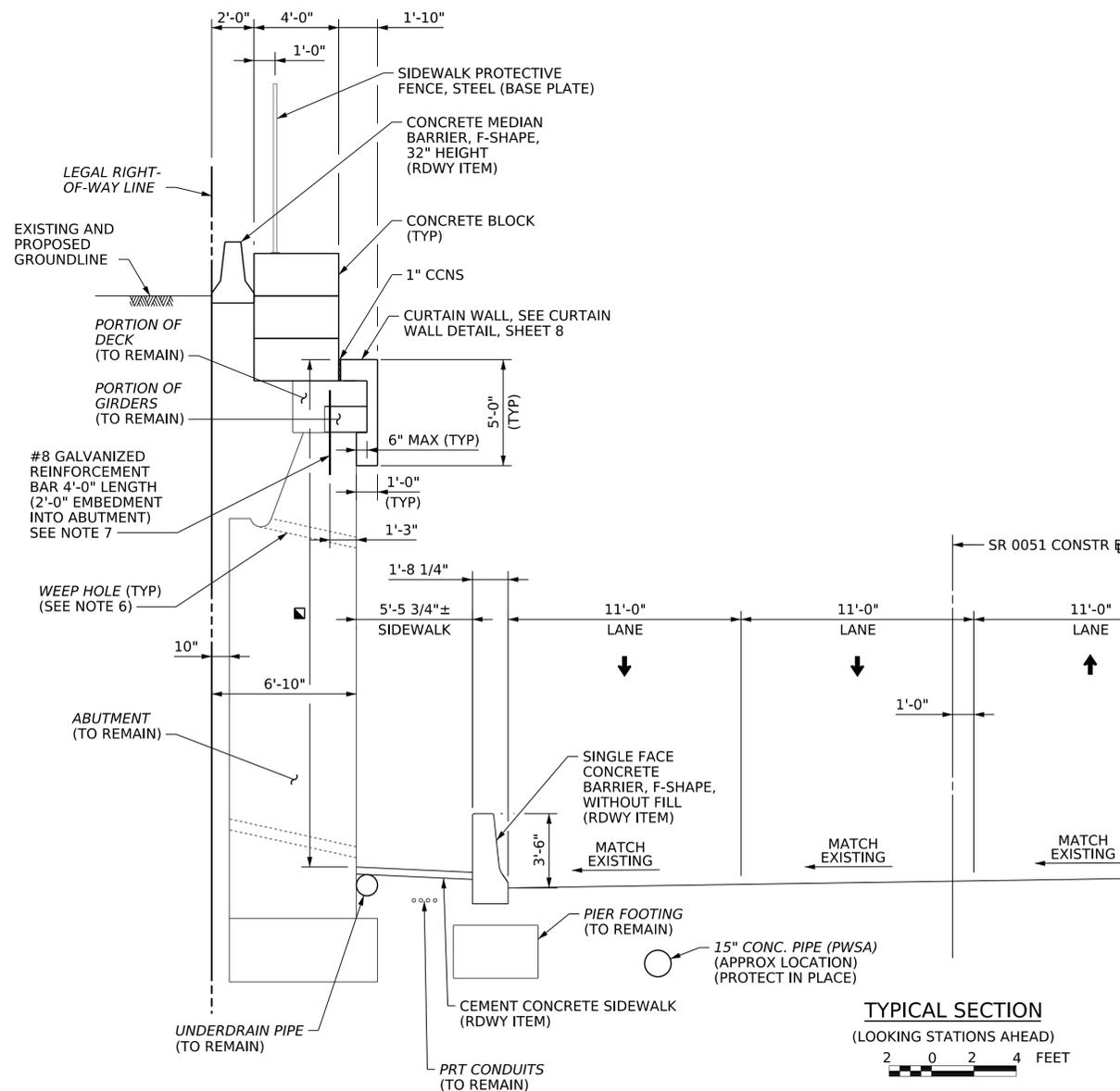
**BLOCK WALL 2 - STATION 47+80.25 TO 48+31.20**



**BLOCK WALL 2 - STATION 46+89.17 TO 47+80.25**



**BLOCK WALL 1**



**TYPICAL SECTION**  
(LOOKING STATIONS AHEAD)

2 0 2 4 FEET

**NOTES**

1. FOR GENERAL PLAN AND ELEVATION AND INDEX OF DRAWINGS, SEE SHEET 1.
2. FOR GENERAL NOTES AND LIST OF ABBREVIATIONS, SEE SHEET 2.
3. FOR BLOCK WALL 1 DETAILS, SEE SHEET 5.
4. FOR BLOCK WALL 2 DETAILS, SEE SHEET 6.
5. EXCAVATION FOR BLOCKS IS INCIDENTAL TO REMOVAL OF PORTION OF EXISTING STRUCTURE, L-560.
6. PROBE EXISTING EXPOSED WEEP HOLES TO VERIFY CONTINUITY OF THE WEEP HOLES THROUGH THE ABUTMENT, AND CLEAN OUT BLOCKAGES IF ENCOUNTERED.
7. GALVANIZED REINFORCEMENT BARS SHALL BE INSTALLED BEFORE PLACING BLOCK WALL.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

BMS STR ID: 02-7301-0000-3934 MPMS/ECMS PROJ: 117472 BRKEY: 70368 (WALL 2)  
BMS STR ID: 02-7301-0000-3935 MPMS/ECMS PROJ: 117472 BRKEY: 70369 (WALL 1)

**COMMONWEALTH OF PENNSYLVANIA**  
**DEPARTMENT OF TRANSPORTATION**

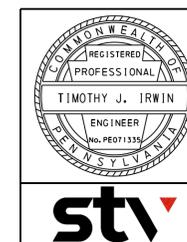
**ALLEGHENY COUNTY**  
**SR 7301 SEC LOC**

**PARKING LOT BRIDGE OVER S.R. 0051**  
**BRIDGE DEMOLITION AND BLOCK WALL**

**TYPICAL SECTION**

SHEET 3 OF 16

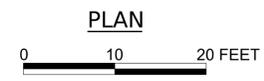
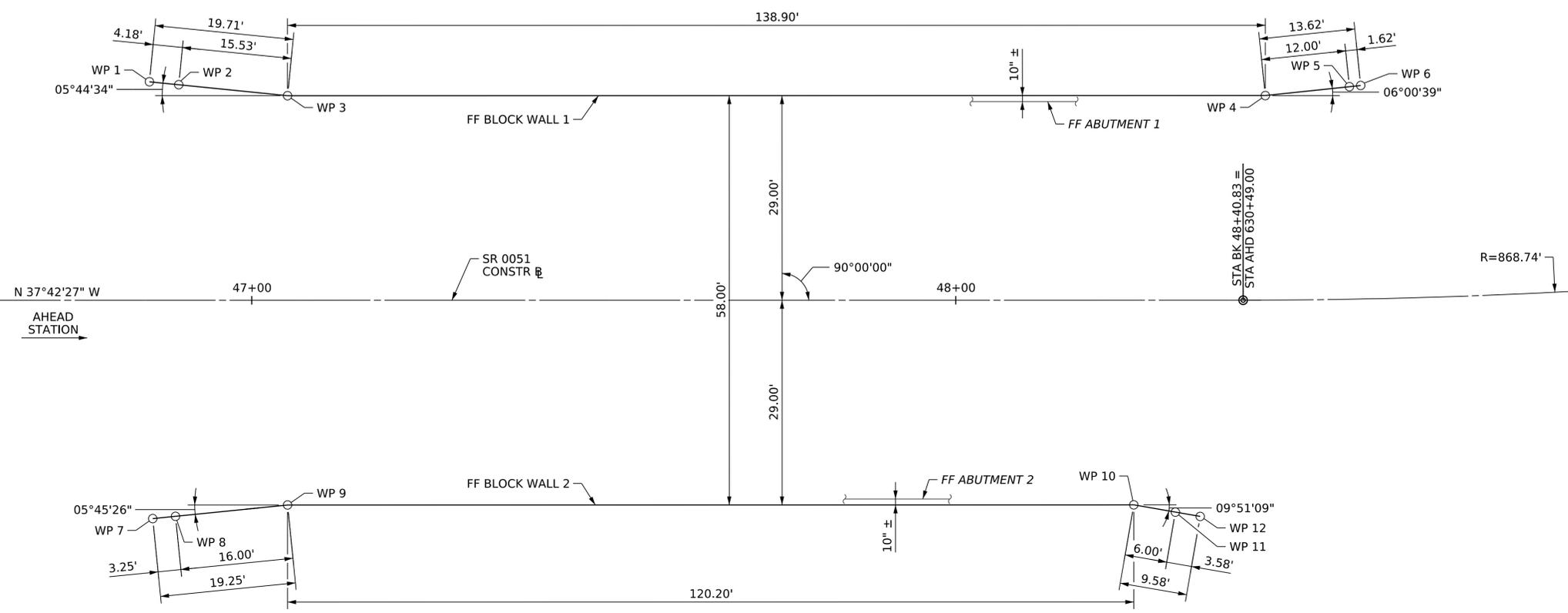
**L - 560**



PAVEMENT RECONSTRUCTION IS NOT SHOWN FOR CLARITY.

■ - LIMITS OF PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALERS, REINFORCED CONCRETE SUBSTRUCTURE SURFACES)

● - INCLUDES 10" PERFORATED PLASTIC PIPE, IMPERVIOUS GEOMEMBRANE, CLASS I GEOTEXTILE, AND NO. 3 COARSE AGGREGATE



**NOTES**

1. FOR GENERAL PLAN AND ELEVATION, SEE SHEET 1.
2. FOR GENERAL NOTES, SEE SHEET 2.
3. THE HORIZONTAL CONTROL IS TIED TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM (SOUTH ZONE), NORTH AMERICAN DATUM OF 1983.
4. ALL DIMENSIONS ARE HORIZONTAL.
5. FOUR PLACE COORDINATES ARE FOR COMPUTATIONAL PURPOSES ONLY AND DO NOT IMPLY A PRECISION BEYOND TWO DECIMAL PLACES.

STAKE-OUT COORDINATES					
WP	STATION	OFFSET	NORTHING	EASTING	COMMENT
1	46+85.48	30.97' LT	405888.2871	1336751.0146	BEGIN CIP WALL 1A
2	46+89.64	30.56' LT	405891.8338	1336748.8019	END CIP WALL 1A/BEGIN BLOCK WALL 1
3	47+05.10	29.00' LT	405905.0139	1336740.5797	BEND POINT IN BLOCK WALL 1
4	630+52.27	28.99' LT	406014.9007	1336655.6262	BEND POINT IN BLOCK WALL 1
5	630+64.64	30.12' LT	406023.5737	1336647.3348	END BLOCK WALL 1/BEGIN CIP WALL 1B
6	630+66.31	30.26' LT	406024.7432	1336646.2168	END CIP WALL 1B
7	46+85.94	30.93' RT	405926.5136	1336799.7074	BEGIN CIP WALL 2B
8	46+89.17	30.60' RT	405928.8727	1336797.4720	END CIP WALL 2B/BEGIN BLOCK WALL 2
9	47+05.09	29.00' RT	405940.4866	1336786.4671	BEND POINT IN BLOCK WALL 2
10	48+25.29	29.00' RT	406035.5795	1336712.9507	BEND POINT IN BLOCK WALL 2
11	48+31.20	30.03' RT	406040.8841	1336710.1483	END BLOCK WALL 2/BEGIN CIP WALL 2A
12	48+34.72	30.64' RT	406044.0457	1336708.4780	END CIP WALL 2A

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

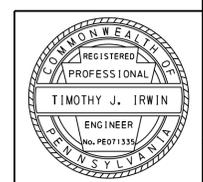
BMS STR ID: 02-7301-0000-3934 MPMS/ECMS PROJ: 117472 BRKEY: 70368 (WALL 2)  
 BMS STR ID: 02-7301-0000-3935 MPMS/ECMS PROJ: 117472 BRKEY: 70369 (WALL 1)

**COMMONWEALTH OF PENNSYLVANIA**  
**DEPARTMENT OF TRANSPORTATION**

**ALLEGHENY COUNTY**  
**SR 7301 SEC LOC**

PARKING LOT BRIDGE OVER S.R. 0051  
 BRIDGE DEMOLITION AND BLOCK WALL

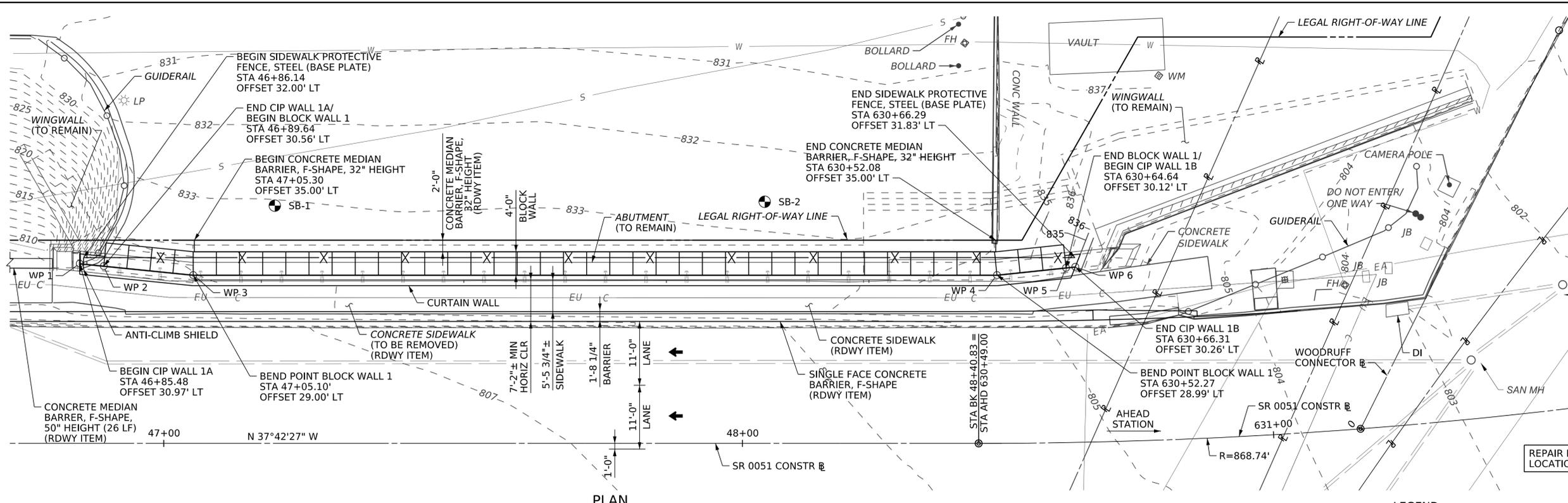
**STAKE-OUT PLAN**



SHEET 4 OF 16

L - 560

S:\bms\str-pw-01\marks\m\pk\inst\m\67181\02005117A\_Stroke Out Plan.dgn  
 2/27/2024 4:01:10 PM simzhang



EPOXY INJECTION CRACK SEAL	
LOCATION	LENGTH (FT)
ABUTMENT 1	66

NOTE: QUANTITIES SHOWN ARE APPROXIMATE AND ARE TO BE VERIFIED IN FIELD PRIOR TO CONSTRUCTION.

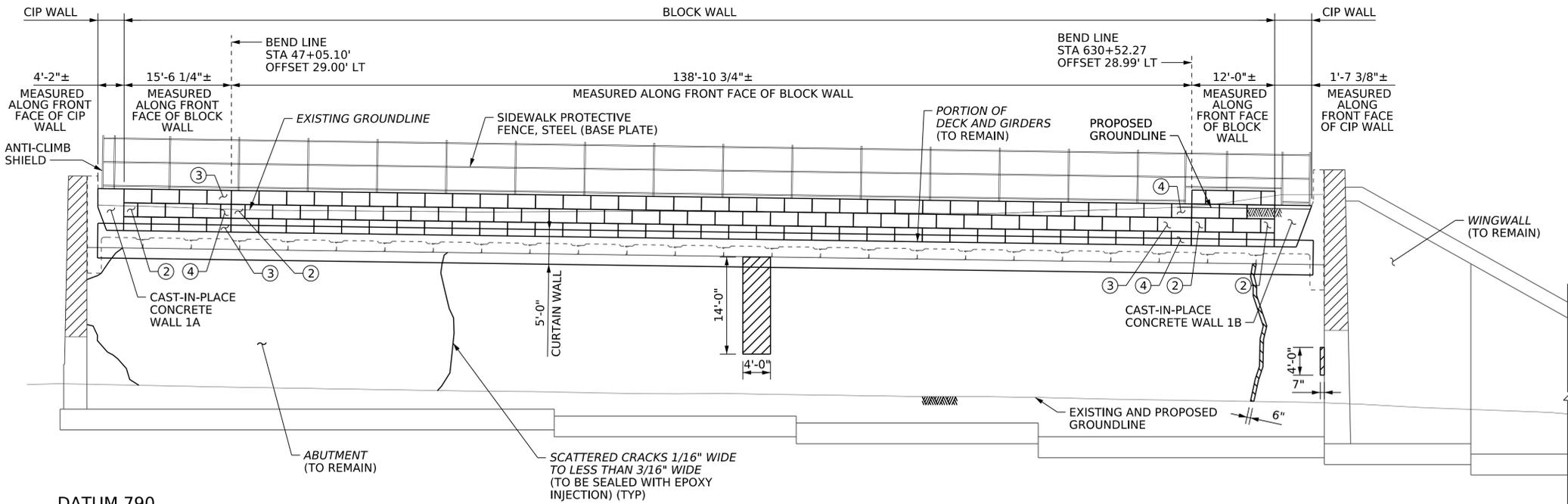
REPAIR DETERIORATED CONCRETE ON ABUTMENTS. LOCATIONS AND LIMITS TO BE DETERMINED IN THE FIELD.



- LEGEND**
- INDICATES APPROXIMATE LIMITS OF REPAIR DETERIORATED CONCRETE (SEE SPECIAL PROVISIONS)
  - BORING LOCATION
  - DIRECTION OF TRAFFIC
  - EXISTING SEWER
  - EXISTING CONTOUR
  - PROPOSED CONTOUR
  - PROPERTY LINE
  - EXISTING DRAINAGE
  - EXISTING WATER LINE
  - EXISTING AERIAL ELECTRIC
  - EXISTING ELECTRIC UNDERGROUND
  - EXISTING CONDUIT UNDERGROUND

# INDICATES BLOCK TYPE. BLOCKS NOT INDICATED ARE TYPE 1. FOR BLOCK TYPE DETAILS SEE SHEET 7.

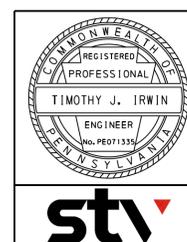
- NOTES**
- FOR GENERAL PLAN AND ELEVATION AND INDEX OF DRAWINGS, SEE SHEET 1.
  - FOR GENERAL NOTES AND LIST OF ABBREVIATIONS, SEE SHEET 2.
  - FOR TYPICAL SECTION, SEE SHEET 3.
  - FOR CAST-IN-PLACE WALL DETAILS, SEE SHEETS 9 & 10.
  - FOR BLOCK WALL DETAILS, SEE SHEETS 7 & 8 AND SPECIAL PROVISION 9000-9001.
  - CLEAR WEEP HOLES IN ABUTMENT PER SPECIAL PROVISION 9000-9003 WEEP HOLE CLEARING.
  - SEE SHEET 6 FOR ANTI-CLIMB SHIELD DETAIL.



Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

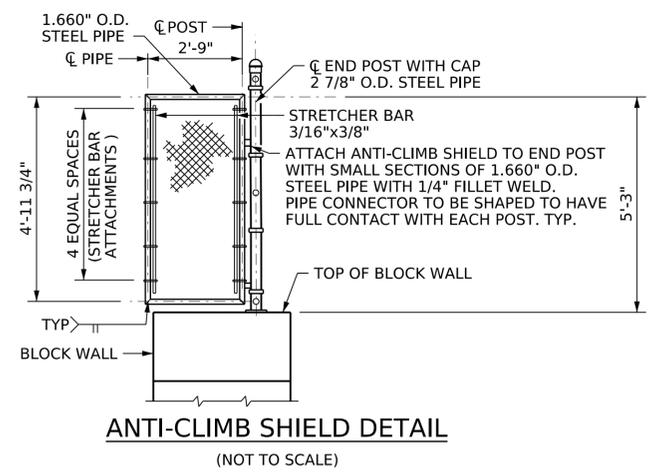
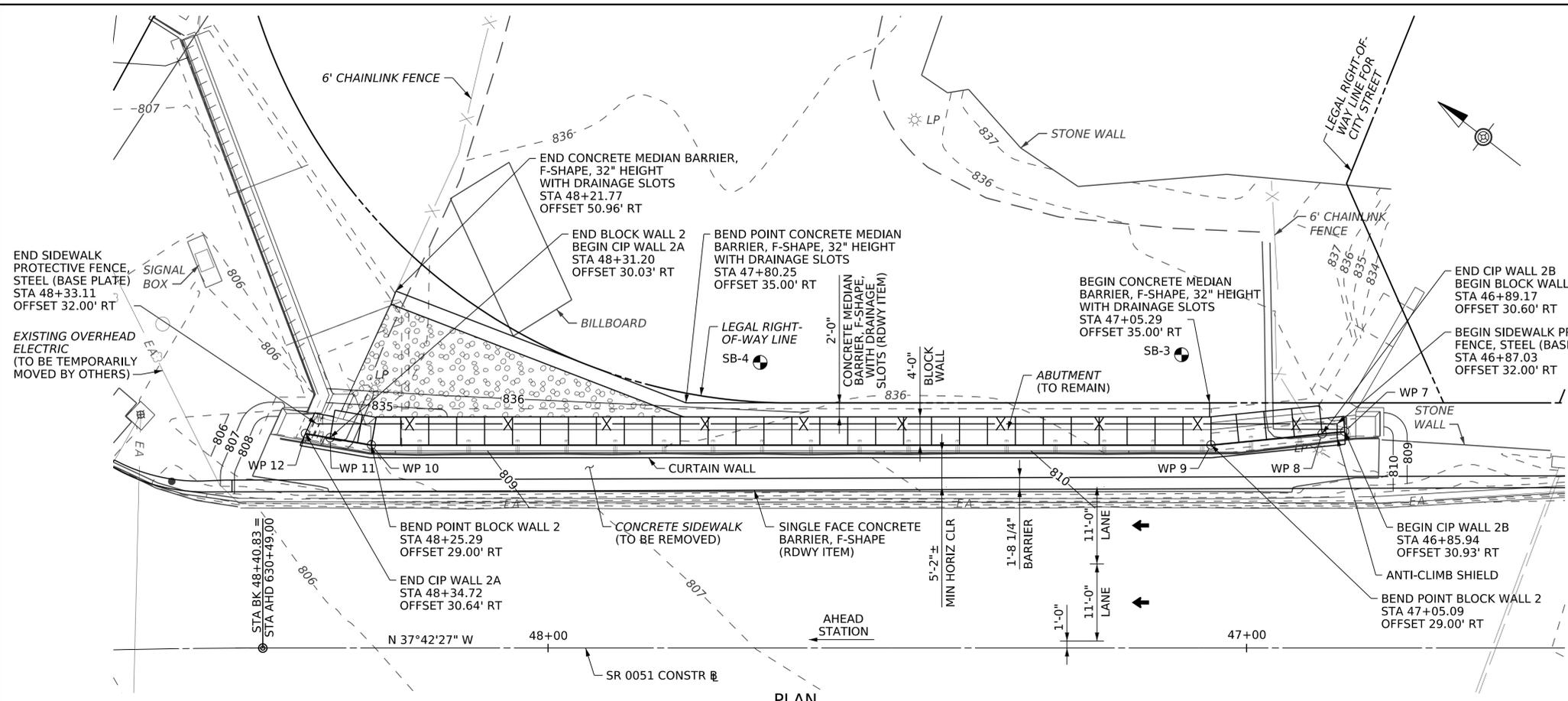
BMS STR ID: 02-7301-0000-3934 MPMS/ECMS PROJ: 117472 BRKEY: 70368 (WALL 2)  
 BMS STR ID: 02-7301-0000-3935 MPMS/ECMS PROJ: 117472 BRKEY: 70369 (WALL 1)

**COMMONWEALTH OF PENNSYLVANIA**  
**DEPARTMENT OF TRANSPORTATION**  
**ALLEGHENY COUNTY**  
**SR 7301 SEC LOC**  
 PARKING LOT BRIDGE OVER S.R. 0051  
 BRIDGE DEMOLITION AND BLOCK WALL  
**BLOCK WALL 1 PLAN & ELEVATION**



DATUM 790	
46+85.48 TOW EL 837.15	47+00.00 TOW EL 836.96
47+05.10 TOW EL 836.88	47+50.00 TOW EL 836.23
48+00.00 TOW EL 835.35	630+50.00 TOW EL 834.90
630+52.27 TOW EL 834.86	630+66.31 TOW EL 834.58

S:\bms\str-02-7301-0000-3934\mpms\ecms\proj\117472\brkey\70368\wall\1\wall1.dgn  
 2/27/2024 4:01:13 PM simzhang



**EPOXY INJECTION CRACK SEAL**

LOCATION	LENGTH (FT)
ABUTMENT 2	20

NOTE: QUANTITIES SHOWN ARE APPROXIMATE AND ARE TO BE VERIFIED IN FIELD PRIOR TO CONSTRUCTION.

REPAIR DETERIORATED CONCRETE ON ABUTMENTS. LOCATIONS AND LIMITS TO BE DETERMINED IN THE FIELD.

- LEGEND**
- INDICATES APPROXIMATE LIMITS OF REPAIR DETERIORATED CONCRETE (SEE SPECIAL PROVISIONS)
  - INDICATES LIMITS OF ROCK, CLASS R-3 (RDWY ITEM)
  - BORING LOCATION
  - DIRECTION OF TRAFFIC
  - 832- EXISTING CONTOUR
  - 807- PROPOSED CONTOUR
  - EA EXISTING AERIAL ELECTRIC
  - EXISTING DRAINAGE
  - # INDICATES BLOCK TYPE. BLOCKS NOT INDICATED ARE TYPE 1. FOR BLOCK TYPE DETAILS, SEE SHEET 7.

- NOTES**
1. FOR GENERAL PLAN AND ELEVATION AND INDEX OF DRAWINGS, SEE SHEET 1.
  2. FOR GENERAL NOTES AND LIST OF ABBREVIATIONS, SEE SHEET 2.
  3. FOR TYPICAL SECTION, SEE SHEET 3.
  4. FOR CAST-IN-PLACE WALL DETAILS, SEE SHEETS 9 & 10.
  5. FOR BLOCK WALL DETAILS, SEE SHEETS 7 & 8, AND SPECIAL PROVISION 9000-9001.
  6. CLEAR WEEP HOLES IN ABUTMENT PER SPECIAL PROVISION 9000-9003 WEEP HOLE CLEARING.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

BMS STR ID: 02-7301-0000-3934 MPMS/ECMS PROJ: 117472 BRKEY: 70368 (WALL 2)  
 BMS STR ID: 02-7301-0000-3935 MPMS/ECMS PROJ: 117472 BRKEY: 70369 (WALL 1)

**COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF TRANSPORTATION**

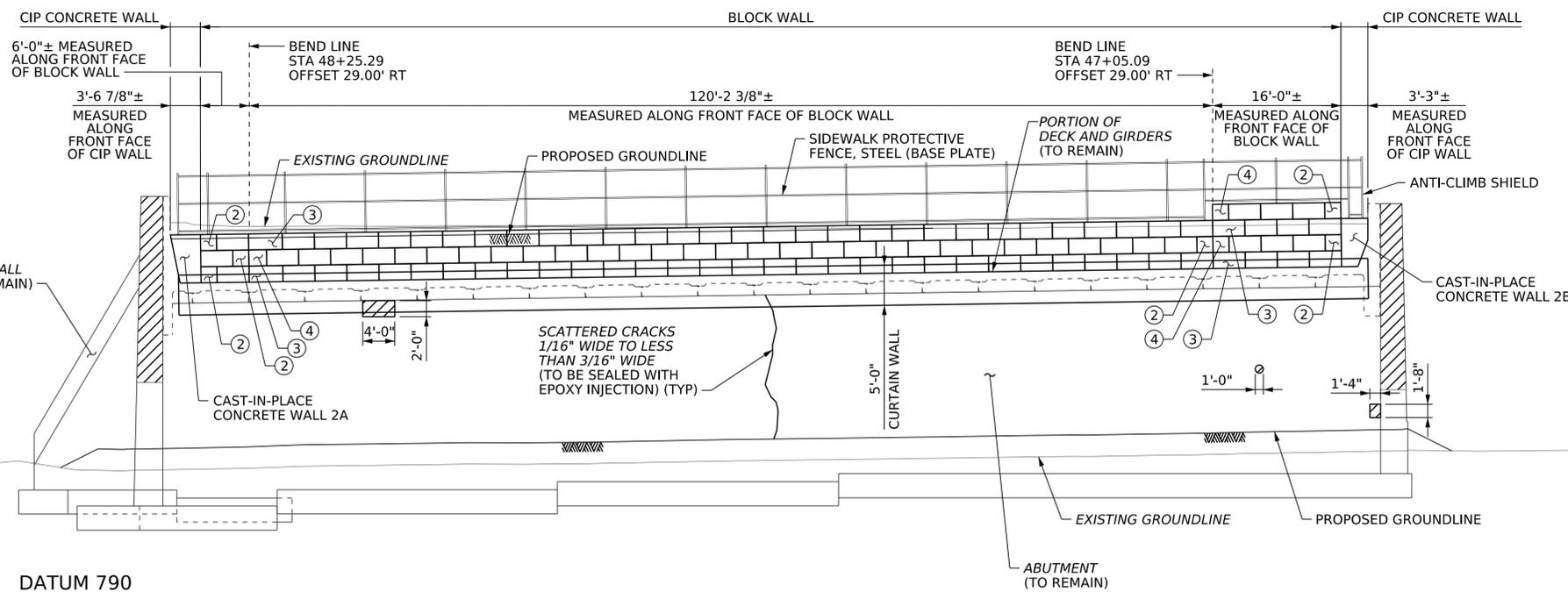
**ALLEGHENY COUNTY  
SR 7301 SEC LOC**

PARKING LOT BRIDGE OVER S.R. 0051  
BRIDGE DEMOLITION AND BLOCK WALL

**BLOCK WALL 2 PLAN & ELEVATION**

SHEET 6 OF 16

L - 560

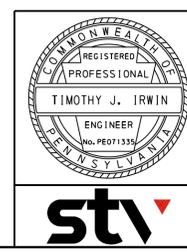


**DATUM 790**

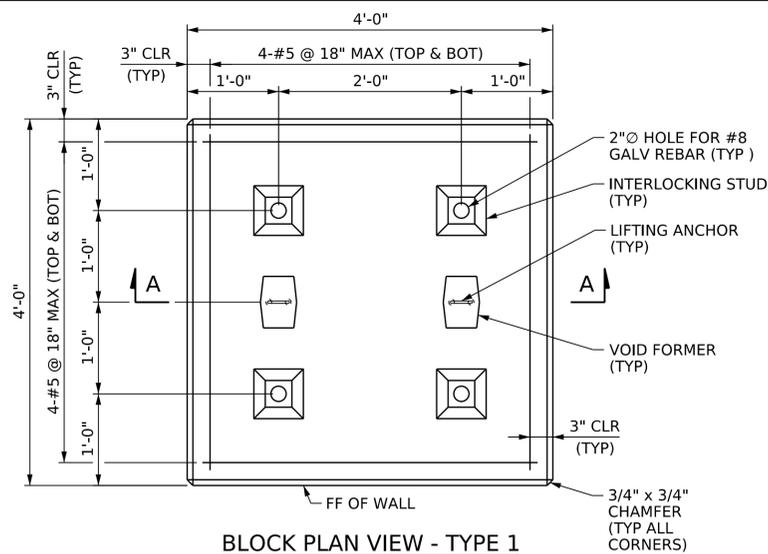
48+34.72 TOW EL 834.70	48+25.64 TOW EL 834.78	48+00.00 TOW EL 835.35	47+50.00 TOW EL 836.16	47+05.09 TOW EL 836.73	47+00.00 TOW EL 836.81	46+85.94 TOW EL 836.99
---------------------------	---------------------------	---------------------------	---------------------------	---------------------------	---------------------------	---------------------------

**ELEVATION**

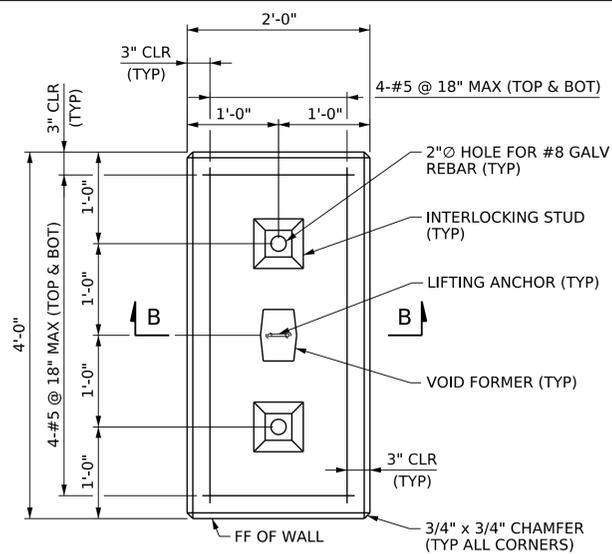
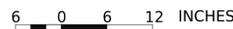
0 10 20 FEET



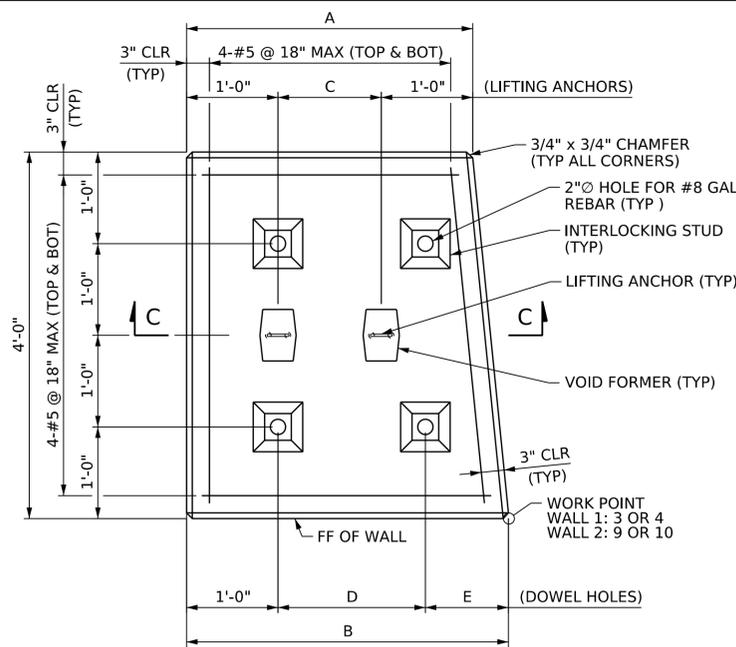
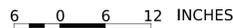
S:\bmsstr-pw-01\Timothy Irwin\dms6718102005117A\_WALL2.dgn 2/27/2024 3:14:28 PM (rwj)



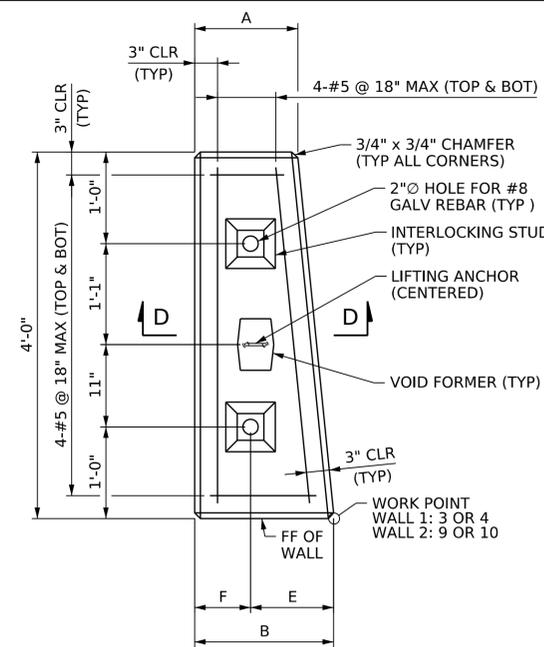
**BLOCK PLAN VIEW - TYPE 1**



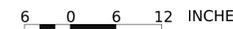
**BLOCK PLAN VIEW - TYPE 2**



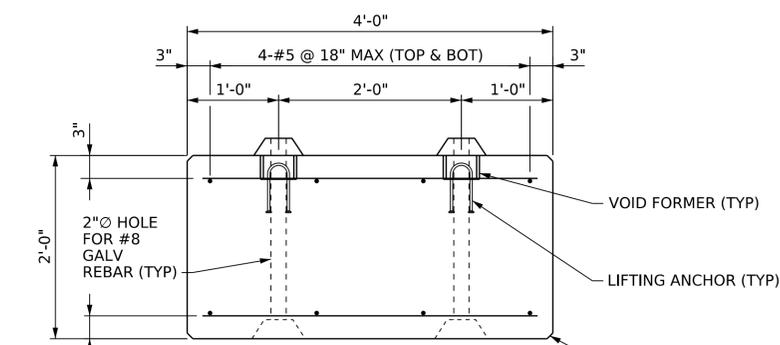
**BLOCK PLAN VIEW - TYPE 3**



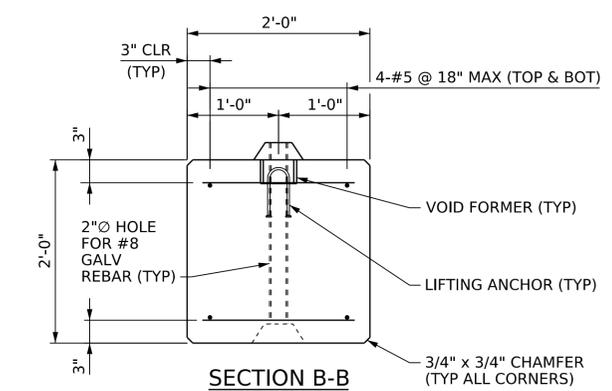
**BLOCK PLAN VIEW - TYPE 4**



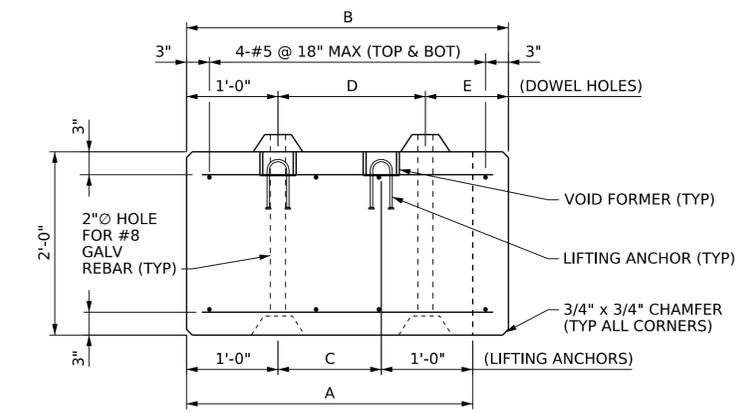
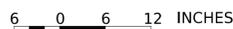
NOTE:  
TYPE 3 & TYPE 4 BLOCKS SHOWN  
FOR WALL 1.  
WALL 2 OPPOSITE HAND



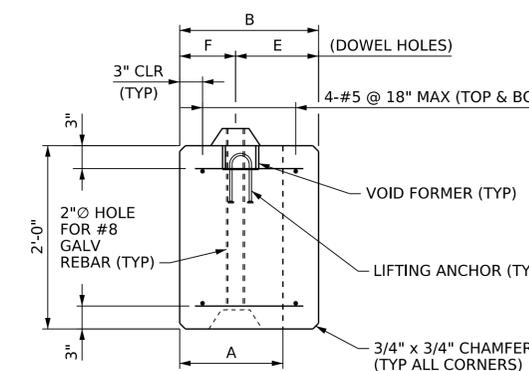
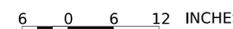
**SECTION A-A**



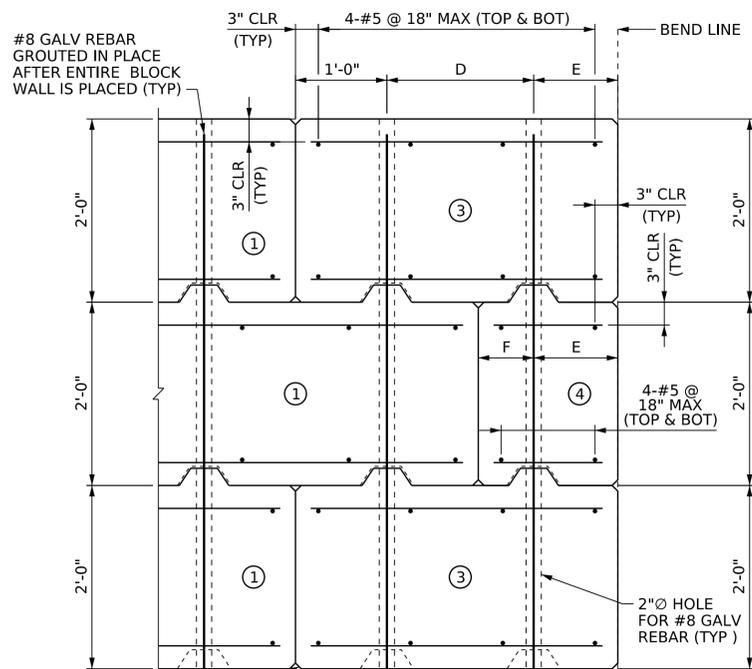
**SECTION B-B**



**SECTION C-C**



**SECTION D-D**

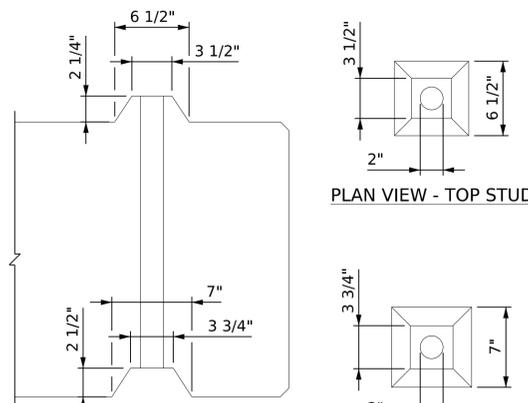


**ELEVATION AT BEND LINE**

(BEND LINE ON WALL 1 STA 47+05.10 SHOWN, OTHER LOCATIONS SIMILAR)  
(LIFTING ANCHORS AND FORMS NOT SHOWN FOR CLARITY)



③ INDICATES BLOCK TYPE



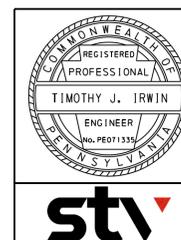
**INTERLOCKING STUD DETAIL**



**NOTES**

- FOR GENERAL PLAN AND ELEVATION AND INDEX OF DRAWINGS, SEE SHEET 1.
- FOR GENERAL NOTES AND LIST OF ABBREVIATIONS, SEE SHEET 2.
- FOR LOCATION OF WORK POINTS, SEE SHEET 4.
- FOR BLOCK WALL 1 PLAN AND ELEVATION, SEE SHEET 5.
- FOR BLOCK WALL 2 PLAN AND ELEVATION, SEE SHEET 6.
- CONCRETE BLOCKS MUST BE REMOVED FROM THE FORMS BEFORE LIFTING.
- CONCRETE BLOCKS SHALL NOT BE LIFTED BEFORE THE CONCRETE REACHES A STRENGTH OF 2,500 PSI.
- #8 GALVANIZED REBAR DOWEL IS INCIDENTAL TO THE BLOCK WALL. INSERT DOWELS WHEN EACH TOP BLOCK IS PLACED. GROUT ALL DOWELS WHEN THE BLOCK WALL IS FULLY PLACED.
- LIFTING ANCHORS SHALL BE DESIGNED FOR A SAFE WORKING LOAD (SWL) OF 5,700 LB PER BLOCK FOR TYPE 1 AND TYPE 3 BLOCKS, AND A SWL OF 3,300 LB PER BLOCK FOR TYPE 2 AND TYPE 4 BLOCKS. LIFTING ANCHORS SHALL BE FLUSH WITH THE TOP OF THE BLOCK. LIFTING ANCHOR RECESSES IN TOP COURSE OF BLOCKS SHALL BE FILLED WITH GROUT AFTER BLOCK IS IN PLACE.
- CONCRETE BLOCKS IN THE TOP COURSE SHALL BE CAST WITHOUT INTERLOCKING STUDS ON THE TOP FACE.

TYPE 3 & TYPE 4 BLOCK DIMENSIONS								
DIMENSION	WALL 1				WALL 2			
	WORK POINT 3		WORK POINT 4		WORK POINT 9		WORK POINT 10	
	TYPE 3	TYPE 4	TYPE 3	TYPE 4	TYPE 3	TYPE 4	TYPE 3	TYPE 4
QTY	2	1	2	2	2	2	2	1
A	3'-1 1/2"	1'-1 1/2"	4'-6"	2'-6"	3'-7 1/4"	1'-7 1/4"	3'-6 1/4"	1'-6 1/4"
B	3'-6 1/4"	1'-6 1/4"	4'-10 7/8"	2'-10 7/8"	3'-11 7/8"	1'-11 7/8"	4'-2 3/8"	2'-2 3/8"
C	1'-1 1/2"	---	2'-6"	---	1'-7 1/4"	---	1'-6 1/4"	---
D	1'-7 1/4"	---	2'-3 5/8"	---	1'-10 1/8"	---	1'-10 1/8"	---
E	11"	11"	1'-7 1/4"	1'-7 1/4"	1'-1 3/4"	1'-1 3/4"	1'-4 1/4"	1'-4 1/4"
F	---	7 1/4"	---	1'-3 5/8"	---	10 1/8"	---	10 1/8"



Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

BMS STR ID: 02-7301-0000-3934 MPMS/ECMS PROJ: 117472 BRKEY: 70368 (WALL 2)  
BMS STR ID: 02-7301-0000-3935 MPMS/ECMS PROJ: 117472 BRKEY: 70369 (WALL 1)

**COMMONWEALTH OF PENNSYLVANIA**  
**DEPARTMENT OF TRANSPORTATION**  
**ALLEGHENY COUNTY**  
**SR 7301 SEC LOC**

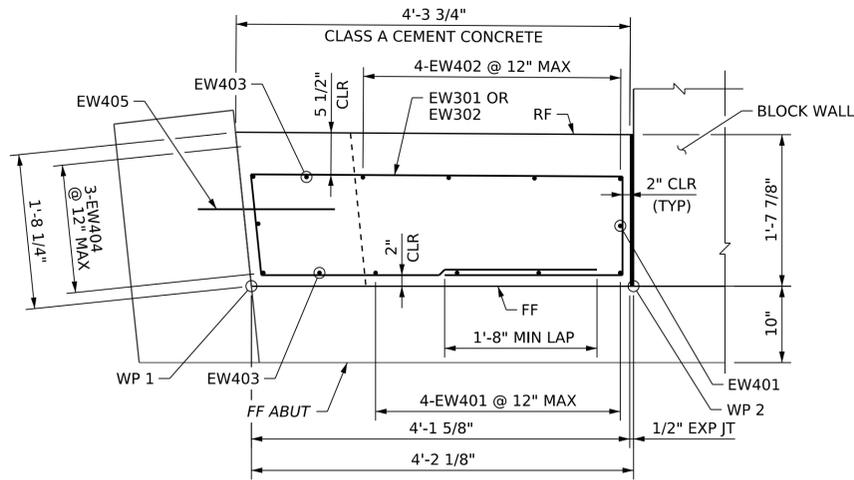
PARKING LOT BRIDGE OVER S.R. 0051  
BRIDGE DEMOLITION AND BLOCK WALL

**BLOCK WALL DETAILS - 1**

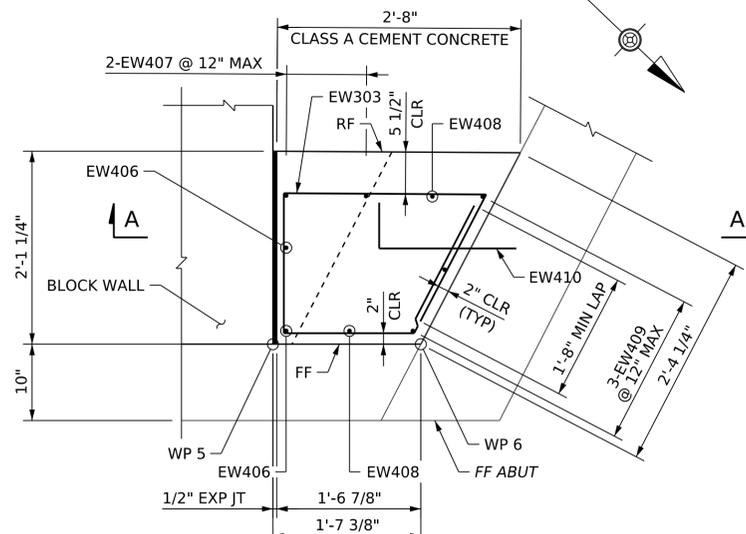
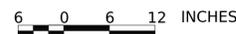
SHEET 7 OF 16

L - 560

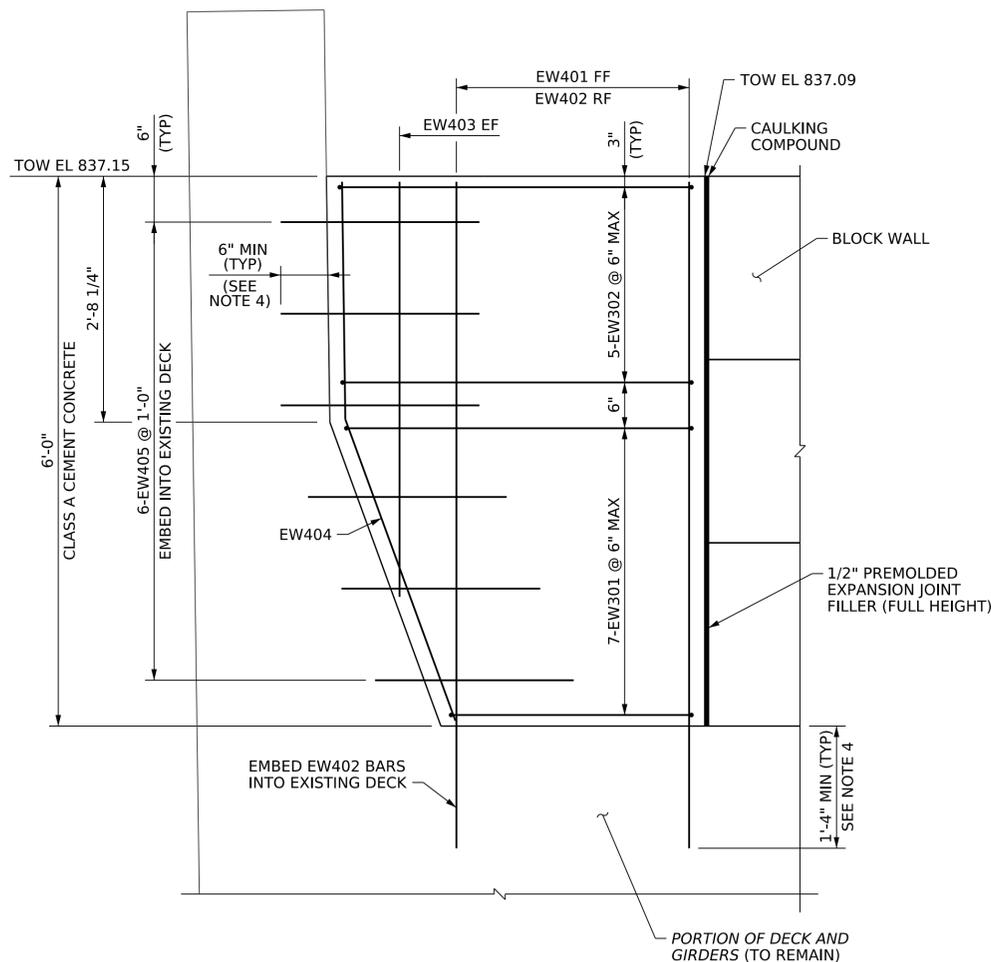
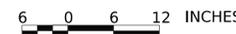




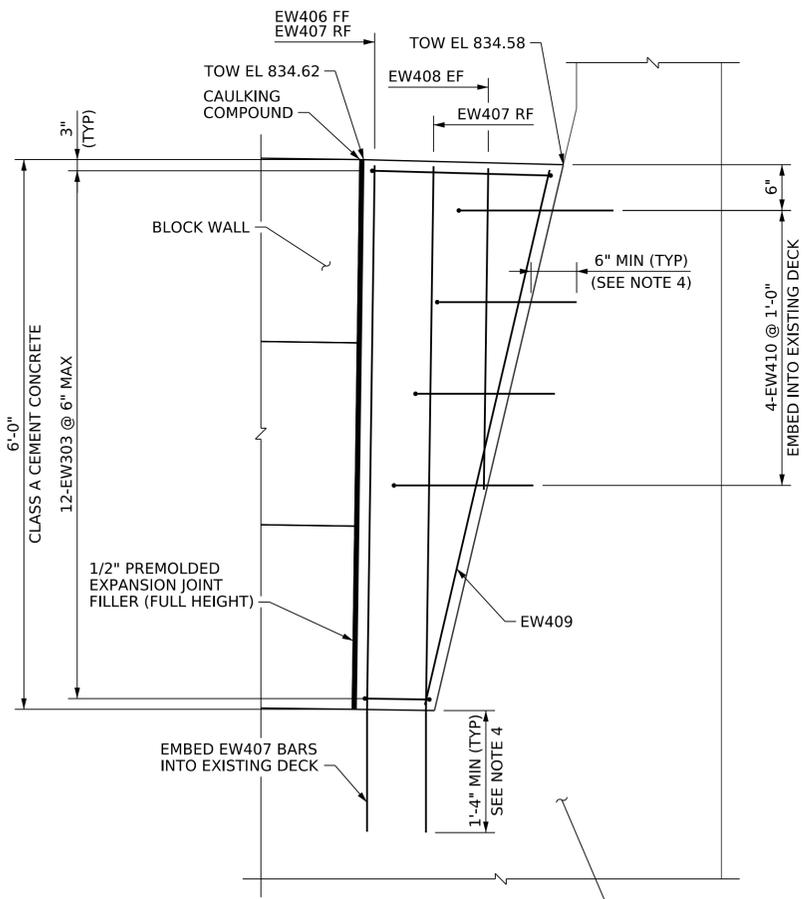
CAST-IN-PLACE WALL 1A PLAN



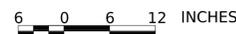
CAST-IN-PLACE WALL 1B PLAN



CAST-IN-PLACE WALL 1A ELEVATION



VIEW A-A  
CAST-IN-PLACE WALL 1B ELEVATION



NOTES

1. FOR GENERAL NOTES & LIST OF ABBREVIATIONS, SEE SHEET 2.
2. FOR STAKE OUT PLAN, SEE SHEET 4.
3. FOR WALL 1 PLAN & ELEVATION, SEE SHEET 5.
4. DRILL 1" DIA DOWEL HOLE FOR #4 DOWEL BARS. GROUT #4 DOWEL BARS INTO HOLES.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

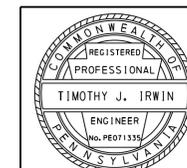
BMS STR ID: 02-7301-0000-3934 MPMS/ECMS PROJ: 117472 BRKEY: 70368 (WALL 2)  
 BMS STR ID: 02-7301-0000-3935 MPMS/ECMS PROJ: 117472 BRKEY: 70369 (WALL 1)

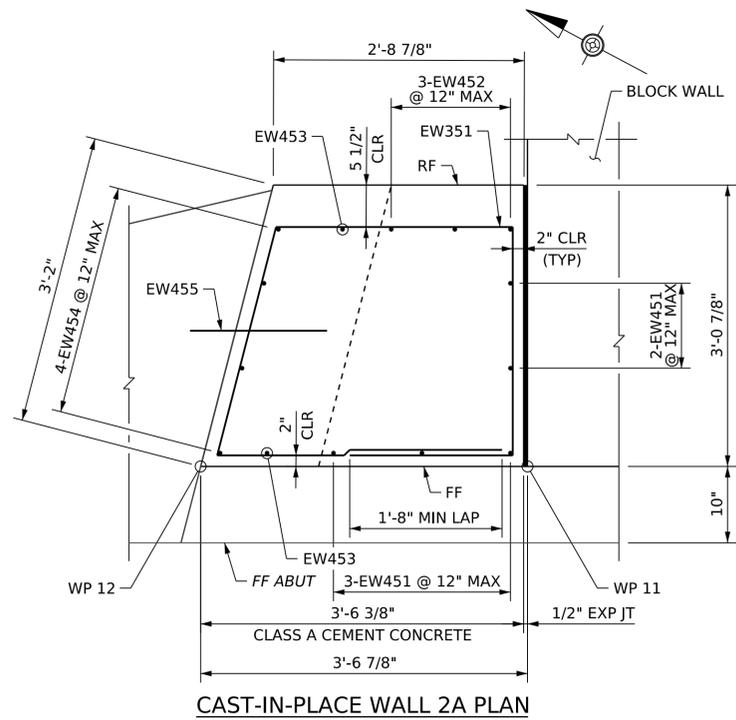
COMMONWEALTH OF PENNSYLVANIA  
 DEPARTMENT OF TRANSPORTATION

ALLEGHENY COUNTY  
 SR 7301 SEC LOC

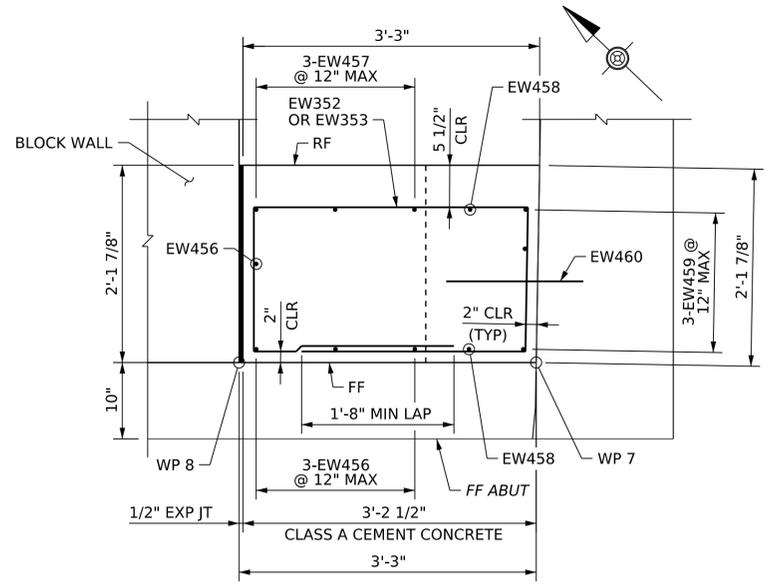
PARKING LOT BRIDGE OVER S.R. 0051  
 BRIDGE DEMOLITION AND BLOCK WALL

CAST-IN-PLACE WALL DETAILS-1

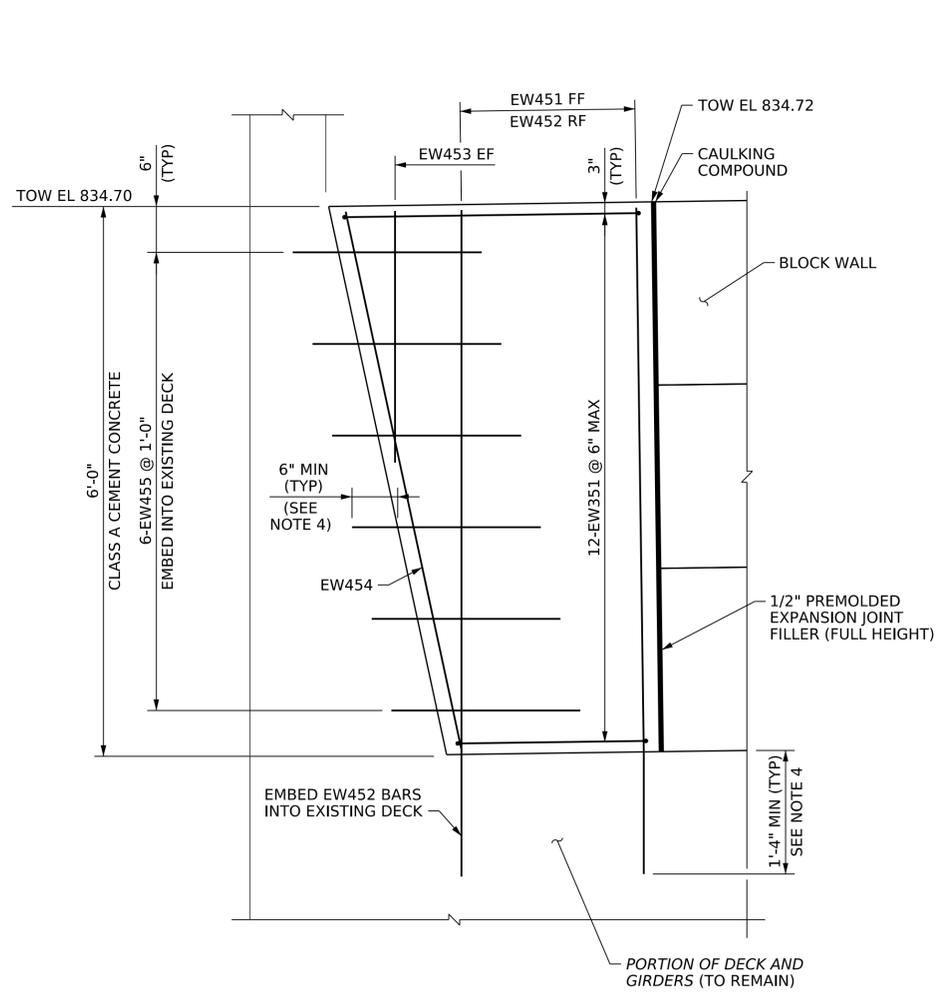




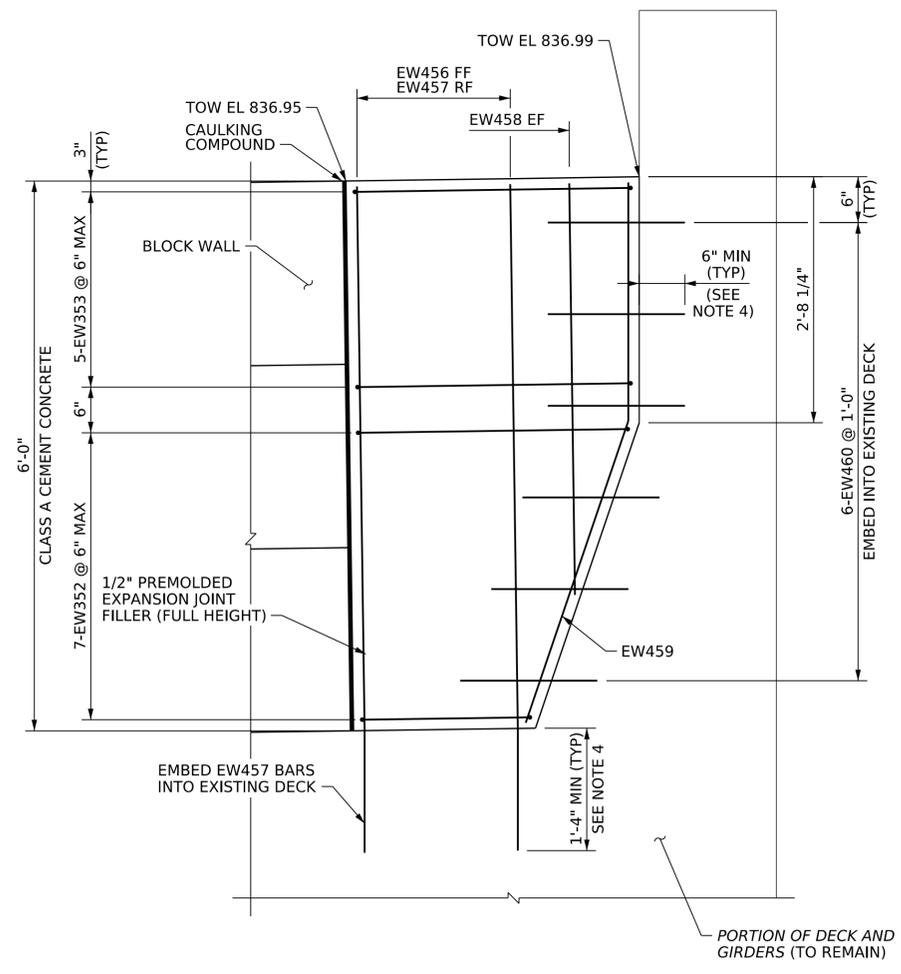
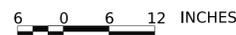
CAST-IN-PLACE WALL 2A PLAN



CAST-IN-PLACE WALL 2B PLAN



CAST-IN-PLACE WALL 2A ELEVATION



CAST-IN-PLACE WALL 2B ELEVATION



NOTES

1. FOR GENERAL NOTES & LIST OF ABBREVIATIONS, SEE SHEET 2.
2. FOR STAKE OUT PLAN, SEE SHEET 4.
3. FOR WALL 2 PLAN & ELEVATION, SEE SHEET 6.
4. DRILL 1" DIA DOWEL HOLE FOR #4 DOWEL BARS. GROUT #4 DOWEL BARS INTO HOLES.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

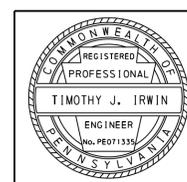
BMS STR ID: 02-7301-0000-3934 MPMS/ECMS PROJ: 117472 BRKEY: 70368 (WALL 2)  
 BMS STR ID: 02-7301-0000-3935 MPMS/ECMS PROJ: 117472 BRKEY: 70369 (WALL 1)

COMMONWEALTH OF PENNSYLVANIA  
 DEPARTMENT OF TRANSPORTATION

ALLEGHENY COUNTY  
 SR 7301 SEC LOC

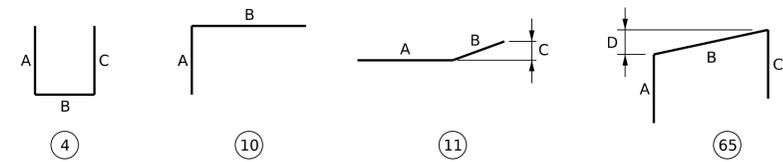
PARKING LOT BRIDGE OVER S.R. 0051  
 BRIDGE DEMOLITION AND BLOCK WALL

CAST-IN-PLACE WALL DETAILS - 2



C:\bms\str-pw-01\mark.simpkins\dm67181\02005117A\_CIP\_DETAILS\_2.dgn  
 2/27/2024 4:02:07 PM simzad@j

CAST-IN-PLACE WALL 1A REINFORCEMENT BAR SCHEDULE											
MARK	SIZE	NUMBER	LENGTH	TYPE	A	B	C	D	E	F	REMARKS
EW301	3	7	10'-11 1/2" TO 13'-5 1/2"	STR							VARY EA BY 5" BEND IN FIELD
EW302	3	5	13'-5 1/2"	STR							BEND IN FIELD
EW401	4	5	5'-10"	STR							
EW402	4	4	7'-2"	STR							
EW403	4	2	4'-3"	STR							
EW404	4	3	6'-0 1/4"	11	2'-6 1/4"	3'-6"	1'-2 1/2"				
EW405	4	6	2'-2"	STR							
CAST-IN-PLACE WALL 1B REINFORCEMENT BAR SCHEDULE											
MARK	SIZE	NUMBER	LENGTH	TYPE	A	B	C	D	E	F	REMARKS
EW303	3	12	10'-4 1/2"	STR							BEND IN FIELD
EW406	4	2	5'-10"	STR							
EW407	4	2	7'-2"	STR							
EW408	4	2	3'-6"	STR							
EW409	4	3	5'-11 3/4"	STR							
EW410	4	4	2'-0"	10	1'-6"	6"					
CAST-IN-PLACE WALL 2A REINFORCEMENT BAR SCHEDULE											
MARK	SIZE	NUMBER	LENGTH	TYPE	A	B	C	D	E	F	REMARKS
EW351	3	12	14'-2"	STR							BEND IN FIELD
EW451	4	5	5'-10"	STR							
EW452	4	3	7'-2"	STR							
EW453	4	2	2'-11"	STR							
EW454	4	4	5'-11 3/4"	STR							
EW455	4	6	2'-2"	STR							
CAST-IN-PLACE WALL 2B REINFORCEMENT BAR SCHEDULE											
MARK	SIZE	NUMBER	LENGTH	TYPE	A	B	C	D	E	F	REMARKS
EW352	3	7	9'-11 1/4" TO 12'-5 1/4"	STR							VARY EA BY 5" BEND IN FIELD
EW353	3	5	12'-5 1/4"	STR							BEND IN FIELD
EW456	4	4	5'-10"	STR							
EW457	4	3	7'-2"	STR							
EW458	4	2	4'-3"	STR							
EW459	4	3	6'-0 1/4"	11	2'-6 1/4"	3'-6"	1'-2 1/2"				
EW460	4	6	2'-2"	STR							
CURTAIN WALL 1 REINFORCEMENT BAR SCHEDULE											
MARK	SIZE	NUMBER	LENGTH	TYPE	A	B	C	D	E	F	REMARKS
EW501	5	122	7'-4"	4	1'-4"	1'-5"	4'-7"				
EW502	5	122	4'-2"	10	1'-4"	2'-10"					
EW503	5	6	19'-2 5/8"	STR							
EW504	5	12	24'-1 1/8"	STR							
EW505	5	12	44'-7 1/2"	STR							
EW506	5	6	12'-5"	STR							
EW507	5	1	7'-10"	65	2'-9"	1'-7"	3'-6"	8 7/8"			
CURTAIN WALL 2 REINFORCEMENT BAR SCHEDULE											
MARK	SIZE	NUMBER	LENGTH	TYPE	A	B	C	D	E	F	REMARKS
EW551	5	106	7'-4"	4	1'-4"	1'-5"	4'-7"				
EW552	5	106	4'-2"	10	1'-4"	2'-10"					
EW553	5	6	9'-8 1/4"	STR							
EW554	5	12	14'-8 5/8"	STR							
EW555	5	12	44'-7 1/2"	STR							
EW556	5	6	18'-9 7/8"	STR							



**REINFORCEMENT NOTES**

- FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO STANDARD DRAWING BC-736M.
- FIGURES IN CIRCLES INDICATE BAR TYPES.
- "E" PREFIX IN BAR MARK DENOTES EPOXY-COATED BARS.
- FOR ALL BAR TYPES SHOWN, DIMENSIONS A-F AND LENGTH ARE MEASURED ALONG OUTSIDE OF BAR. R IS MEASURED ALONG INSIDE OF BAR.

**NOTES**

- FOR GENERAL NOTES & LIST OF ABBREVIATIONS, SEE SHEET 2.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

BMS STR ID: 02-7301-0000-3934 MPMS/ECMS PROJ: 117472 BRKEY: 70368 (WALL 2)  
 BMS STR ID: 02-7301-0000-3935 MPMS/ECMS PROJ: 117472 BRKEY: 70369 (WALL 1)

**COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF TRANSPORTATION**

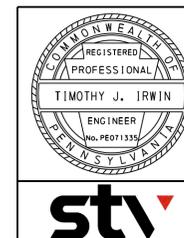
**ALLEGHENY COUNTY  
SR 7301 SEC LOC**

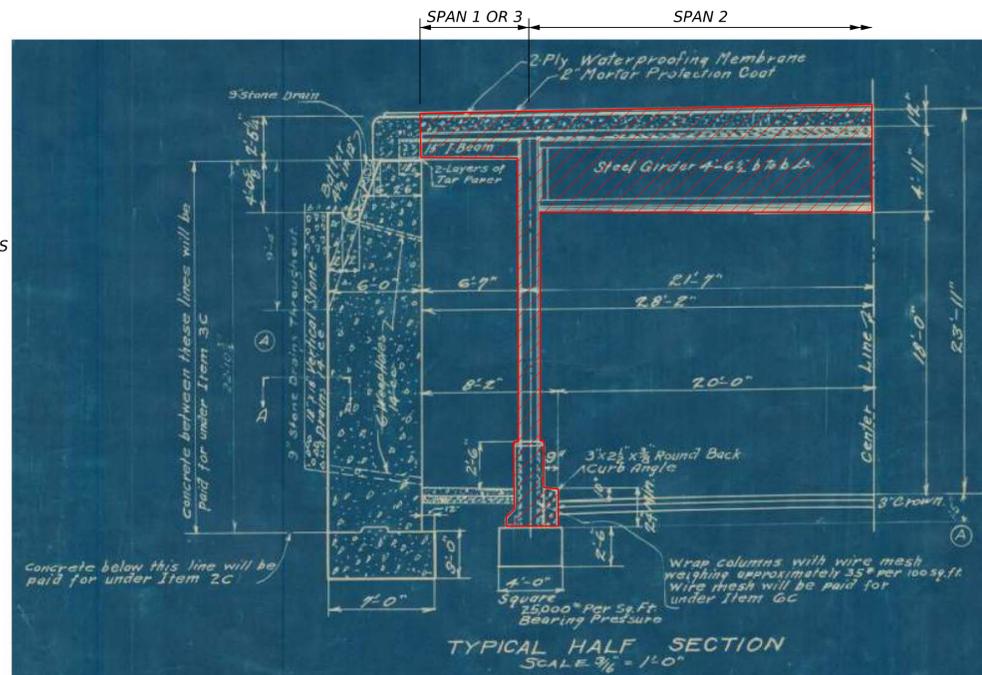
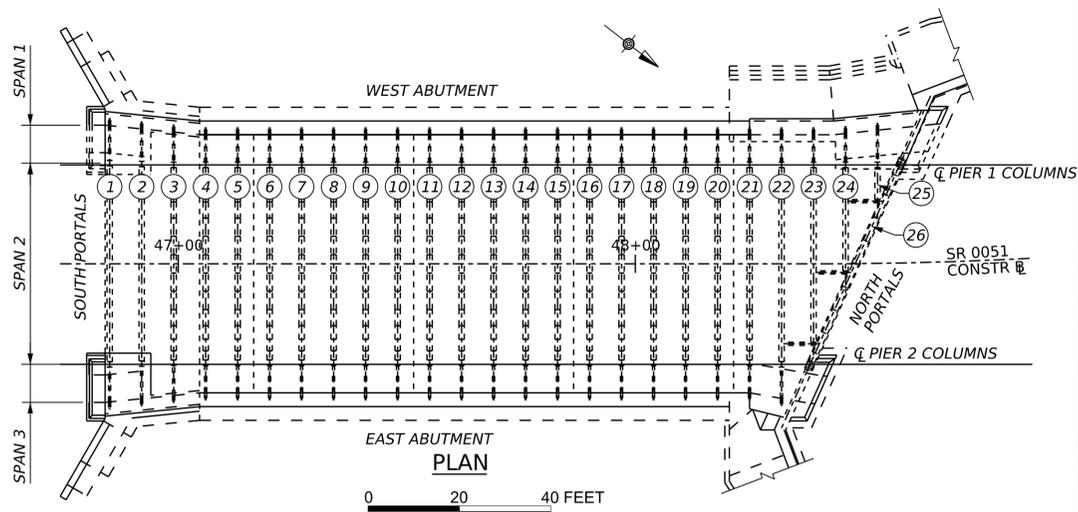
**PARKING LOT BRIDGE OVER S.R. 0051  
BRIDGE DEMOLITION AND BLOCK WALL**

**REINFORCEMENT BAR SCHEDULE**

SHEET 11 OF 16

**L - 560**





TYPICAL HALF SECTION  
NOT TO SCALE

**FOR CONCEPT ONLY**  
**STRUCTURE DEMOLITION PLAN**

**GENERAL**

1. SET UP DETOUR.
2. UNCOVER DETOUR SIGNS, CLOSE SR 51, AND CLEAR TRAFFIC.
3. MOBILIZE DEMOLITION EQUIPMENT, REMOVE ROADWAY BARRIER FOR ACCESS, INSTALL CRANE MATS AND UTILITY SHIELDING.
4. RELOCATE EXISTING TEMPORARY BARRIER TO ROW LINE (ON TOP).

**SPAN 2**

1. DEMO SOUTH PARAPET FOR ACCESS TO THE DECK.
2. DEMO SOUTH PORTALS TO THE LIMITS SHOWN BELOW.
3. REMOVE FILL FROM THE FIRST 25' (AREA ABOVE BEAMS 1 THRU 3) OF THE DECK IN SPAN 2, SLOPE FILL IN SPANS 1 & 3 FROM THE PIER LINE TO ADJACENT TO TEMPORARY BARRIER.
4. SAWCUT AND REMOVE DECK FROM THE FIRST 25' (AREA ABOVE BEAMS 1 THRU 3) OF SPAN 2.
5. TORCH CUT AND REMOVE BEAMS 1-3 OF SPAN 2.
6. REPEAT STEPS 3 THRU 5 FOR BEAM GROUPS 4-6, 7-9, 10-12, 13-15, 16-18, 19-21, 22-25.
7. DEMO NORTH PORTALS AND CONCRETE FASCIA INCLUDING BEAM 26 OF SPAN 2.

**SPAN 1 & 3**

1. INSTALL DOWELS ON EAST ABUTMENT.
2. INSTALL DOWELS ON WEST ABUTMENT.
3. REMOVE FILL AND SET BLOCKS ON EAST ABUTMENT.
4. REMOVE FILL AND SET BLOCKS ON WEST ABUTMENT.
5. INSTALL FINAL BLOCKS AND GROUT BLOCK DOWELS.
6. SAWCUT THE DECK AT THE WEST ABUTMENT FOR SPAN 1 AND AT THE EAST ABUTMENT FOR SPAN 3.
7. SAWCUT DECK ALONG SPAN 1/3 BEAMS, TORCH CUT THE SPAN 1/3 BEAMS, DIAPHRAGM BEAM BETWEEN COLUMNS, AND COLUMNS AT THE TOP OF BARRIER AND REMOVE ENTIRE UNIT.
8. INSTALL ROCK DRAIN AT THE EAST ABUTMENT.
9. INSTALL BARRIER AT THE EAST AND WEST ABUTMENTS (ON TOP).
10. MOUNT PROTECTIVE FENCE TO BLOCKS AT THE EAST AND WEST ABUTMENTS.

**RECONSTRUCT EAST AND WEST ABUTMENTS**

1. FORM, REINFORCE, AND POUR CURTAIN WALL AT EAST ABUTMENT.
2. FORM, REINFORCE, AND POUR CURTAIN WALL AT WEST ABUTMENT.
3. REPAIR DETERIORATED CONCRETE AT BOTH ABUTMENTS.
4. CURE ALL WALLS AND SEAL.

**SOUTHBOUND ROADWAY WIDENING**

1. REMOVE SIDEWALK AND PIER 1 TO TOP OF FOOTING.
2. SAWCUT ROADWAY ALONG PIER 1 TO CLEAN LINES.
3. EXCAVATE ROADWAY, INSTALL SUBBASE, AND INSTALL CONCRETE BASE PAVEMENT.
4. INSTALL 2A SUBBASE FOR SINGLE-FACE BARRIER AND SIDEWALK.
5. INSTALL SINGLE-FACE BARRIER.
6. FORM, REINFORCE, AND POUR SIDEWALK.
7. FORM, REINFORCE, AND POUR BARRIER TRANSITIONS.

**NORTHBOUND ROADWAY WIDENING**

1. REMOVE SIDEWALK AND PIER 2 TO TOP OF FOOTING.
2. SAWCUT ROADWAY ALONG PIER 2 TO CLEAN LINES.
3. EXCAVATE ROADWAY, INSTALL SUBBASE, AND INSTALL CONCRETE BASE PAVEMENT.
4. INSTALL 2A SUBBASE FOR SINGLE-FACE BARRIER.
5. INSTALL SINGLE-FACE BARRIER.
6. BACKFILL SINGLE-FACE BARRIER WITH NO. 57 STONE.

**NOTES**

1. FOR BLOCK WALL 1 PLAN AND ELEVATION, SEE SHEET 5.
2. FOR BLOCK WALL 2 PLAN AND ELEVATION, SEE SHEET 6.
3. FOR TYPICAL SECTION, SEE SHEET 3.
4. FOR GENERAL NOTES AND QUANTITIES, SEE SHEET 2.
5. FOR GENERAL PLAN AND ELEVATION, SEE SHEET 1.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

BMS STR ID: 02-7301-0000-3934 MPMS/ECMS PROJ: 117472 BRKEY: 70368 (WALL 2)  
BMS STR ID: 02-7301-0000-3935 MPMS/ECMS PROJ: 117472 BRKEY: 70369 (WALL 1)

**COMMONWEALTH OF PENNSYLVANIA**  
**DEPARTMENT OF TRANSPORTATION**

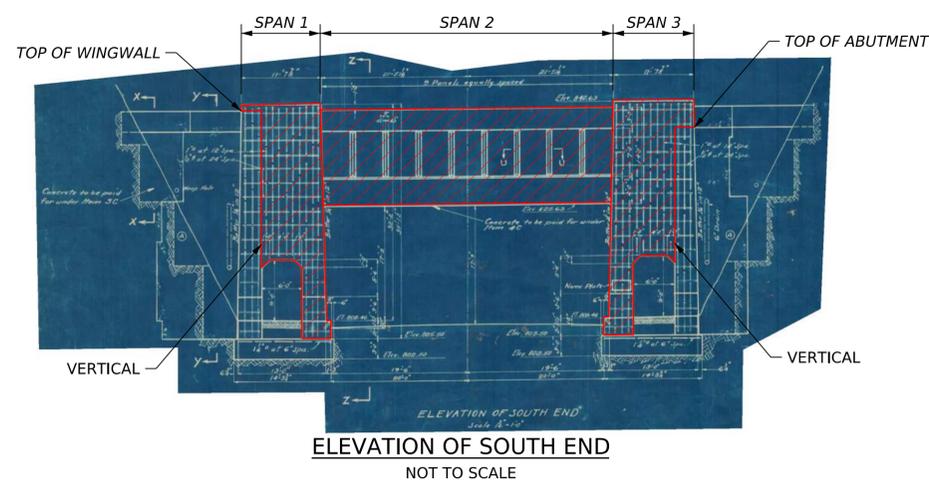
**ALLEGHENY COUNTY**  
**SR 7301 SEC LOC**

**PARKING LOT BRIDGE OVER S.R. 0051**  
**BRIDGE DEMOLITION AND BLOCK WALL**

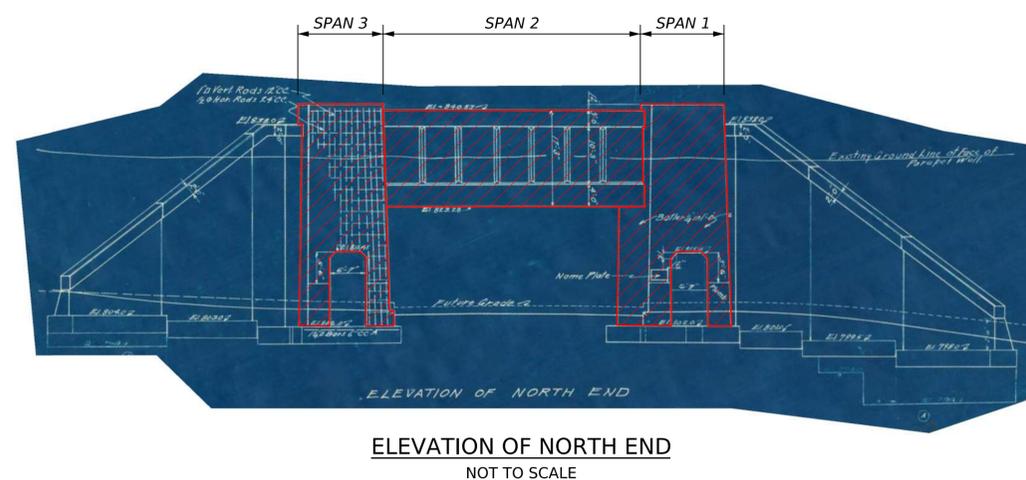
**DEMOLITION PLAN**

SHEET 12 OF 16

**L - 560**



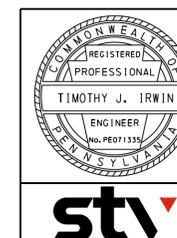
ELEVATION OF SOUTH END  
NOT TO SCALE



ELEVATION OF NORTH END  
NOT TO SCALE

**LEGEND**

LIMITS OF REMOVAL OF EXISTING STRUCTURE



S:\bms\str-pw-01\mark.simpkins\m67181\02005117A\_DEMO\_PLAN.dgn 2/27/2024 4:02:26 PM simpanj

**CONSTRUCTION PROCEDURE**

**REMOVAL, REPAIR AREA PREPARATION, AND REINFORCEMENT INSTALLATION.**

- PROVIDE SATISFACTORY PROTECTIVE SHIELDING BELOW REPAIR AREAS.
- PROVIDE MEANS TO COLLECT CONCRETE AND DEBRIS FROM REMOVAL OPERATIONS AND ABRASIVE BLAST MEDIA USED TO CLEAN THE REPAIR AREAS.
- SOUND AND DETERMINE EXTENT OF REPAIR AREAS IN THE PRESENCE OF A REPRESENTATIVE.
- OUTLINE EDGE OF THE DESIGNATED REPAIR AREAS WITH A 1" MAXIMUM DEPTH SAWCUT.
- WITHIN THE OUTLINED REPAIR AREAS, REMOVE DETERIORATED CONCRETE TO A DEPTH OF 3/4-INCH BEHIND THE FIRST MAT OF REINFORCEMENT BARS TO SOUND CONCRETE. ALLOW UNCOVERED OR EXPOSED REINFORCEMENT BARS TO HAVE A 3/4-INCH CLEARANCE ALL AROUND. IF CONCRETE IS UNSOUND AT A DEPTH OF 3/4-INCH BEHIND REINFORCEMENT BARS, DO NOT REMOVE ADDITIONAL CONCRETE WITHOUT APPROVAL OF THE STRUCTURE CONTROL ENGINEER. REFER TO EXISTING PLANS FOR LOCATION OF REINFORCEMENT BARS. WHERE CONCRETE REPAIRS ARE REQUIRED AND NO REINFORCEMENT IS PRESENT, THE DEPTH OF THE REPAIR SHALL BE TO SOUND CONCRETE OR 3 1/2", WHICHEVER IS MORE.
- SQUARE-OUT/BEVEL EDGE OF REPAIR AREAS TO KEY IN CONSTRUCTION. USE HAND TOOLS FOR REMOVING DETERIORATED CONCRETE. USE PNEUMATIC HAMMERS, IF REQUIRED, NOT EXCEEDING AN IMPACT RATING OF 30 FOOT POUNDS. IF DETERIORATED CONCRETE EXTENDS BEYOND THE INITIALLY OUTLINED REPAIR AREA, ENLARGE AREA AS DIRECTED BY THE REPRESENTATIVE.
- AFTER REMOVAL OPERATIONS ARE COMPLETE, REMOVE DEBRIS AND LOOSE MATERIALS. IMMEDIATELY BEFORE WET ABRASIVE BLASTING (WAB), WET REPAIR AREAS WITH LOW PRESSURE WATER. CLEAN REPAIR AREAS, PREPARED SUBSTRATE AND REINFORCEMENT BARS, BY WAB. WAB EXPOSED REINFORCEMENT BARS TO NEAR-WHITE METAL ACCORDING TO SSPC-SP 10 (WAB). ONCE WAB IS COMPLETE, FLUSH REPAIR AREAS WITH WATER TO REMOVE ANY REMAINING ABRASIVE BLAST MEDIA. ENSURE REPAIR AREAS ARE DRY AND FREE OF SPENT ABRASIVE, THEN EPOXY COAT EXPOSED REINFORCEMENT BARS WITHIN THE SAME WORKDAY AS WAB. REBLAST REINFORCEMENT BARS THAT ARE NOT EPOXY COATED WITHIN THE SAME WORKDAY OR DO NOT MEET SSPC-SP 10 (WAB). SPLICE DAMAGED OR HEAVILY CORRODED REINFORCEMENT BARS AT 50% OR MORE SECTION LOSS AS SHOWN ON STANDARD DRAWING BC-736M. IF ENOUGH SPLICE LENGTH IS NOT AVAILABLE, DRILL NEW DOWEL HOLES AND PLACE DOWEL BARS AS DIRECTED.

- PLACE EPOXY COATED NO. 4 BENT "L" REINFORCEMENT BARS IN A 1'-0" CENTER-TO-CENTER MAXIMUM SPACED GRID. ANCHOR INTO SOUND CONCRETE WITH EPOXY ANCHORING SYSTEM.

- ATTACH WWF TO THE BENT "L" REINFORCEMENT BARS WITH ANNEALED IRON WIRE AT A MAXIMUM SPACING OF 1'-0" IN EACH DIRECTION. IF USING 6X6 WWF, PLACE A SECOND LAYER OF 6X6 WWF AND STAGGER TO ACHIEVE A 3X3 GRID SPACING.

- REPAIR CONCRETE DAMAGED DURING REPAIR OPERATIONS TO THE SATISFACTION OF THE REPRESENTATIVE AT NO ADDITIONAL COST TO THE DEPARTMENT.

- PROPERLY DISPOSE COLLECTED CONCRETE, DEBRIS, AND ABRASIVE BLAST MEDIA.

**CONCRETE PLACEMENT**

c : CONVENTIONAL METHOD

- SET FORMS TO PROVIDE MINIMUM CONCRETE COVER OF 2 INCHES. IF ENOUGH CONCRETE COVER ON EXISTING REINFORCEMENT BARS IS NOT AVAILABLE, HAUNCH REPAIR OUTWARD.

- MAINTAIN EXISTING CHAMFERS.

- AIR-BLAST REPAIR AREAS WITH OIL-FREE COMPRESSED AIR TO REMOVE ANY REMAINING CONTAMINANTS DETRIMENTAL TO THE BOND OF NEW CONCRETE. APPLY EPOXY BONDING COMPOUND TO REPAIR AREAS. WHILE EPOXY BONDING COMPOUND IS STILL TACKY, PLACE CLASS AA CEMENT CONCRETE WITH NO. 8 COARSE AGGREGATE. DO NOT PLACE CONCRETE IF COMPOUND IS NO LONGER TACKY OR HAS HARDENED. RECOAT COMPOUND THAT IS NO LONGER TACKY. WIRE BRUSH HARDENED COMPOUND AND RECOAT REPAIR AREA.

- WATER CURE REPAIR AREAS.

f : SHOTCRETE METHOD

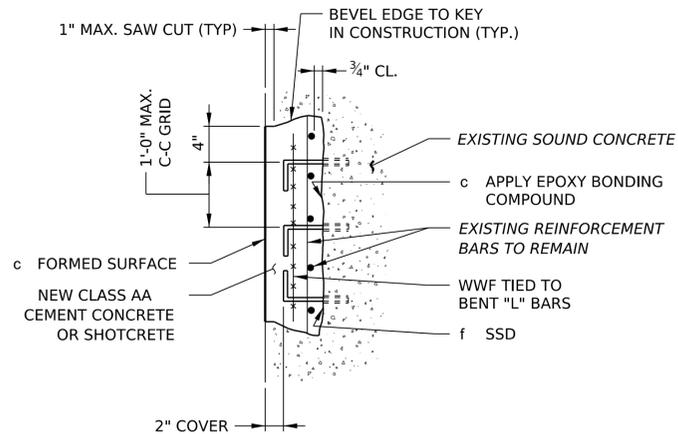
- PROVIDE MINIMUM CONCRETE COVER OF 2 INCHES. IF ENOUGH CONCRETE COVER ON EXISTING REINFORCEMENT BARS IS NOT AVAILABLE, HAUNCH REPAIR OUTWARD.

- MAINTAIN EXISTING CHAMFERS.

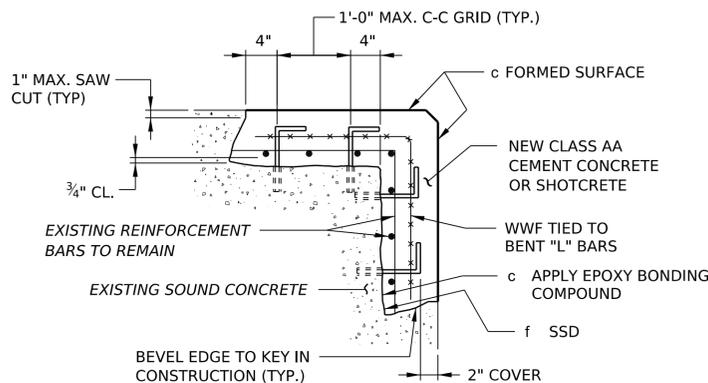
- AIR-BLAST REPAIR AREAS WITH OIL-FREE COMPRESSED AIR TO REMOVE ANY REMAINING CONTAMINANTS DETRIMENTAL TO THE BOND OF NEW CONCRETE.

- SATURATE PREPARED CONCRETE SUBSTRATE WITH CLEAN WATER THE DAY BEFORE SHOTCRETE APPLICATION. BRING WETTED SURFACES TO A SATURATED SURFACE DRY (SSD) CONDITION BEFORE APPLICATION OF SHOTCRETE. DO NOT APPLY SHOTCRETE TO A DRY SURFACE, OR TO A SURFACE WITH FREE SURFACE WATER.

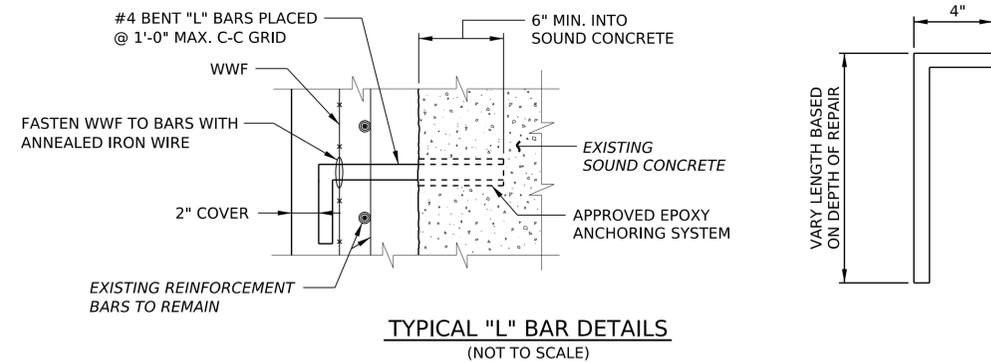
- WATER CURE REPAIR AREAS. LIQUID MEMBRANE CURING COMPOUND MAY BE USED ONLY WHEN ACCEPTED BY THE REPRESENTATIVE.



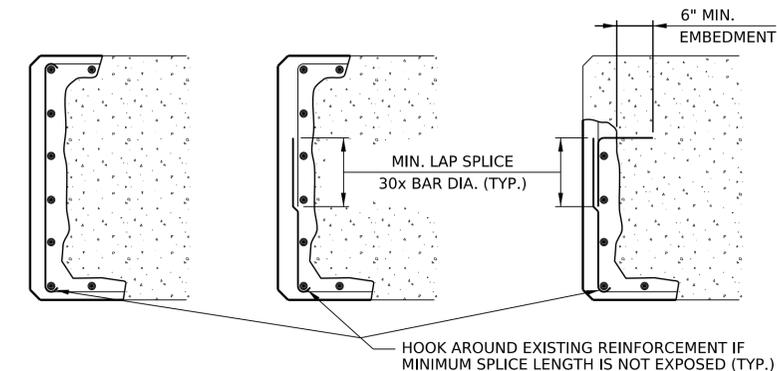
**TYPICAL REPAIR DETAIL**  
(NOT TO SCALE)



**TYPICAL CORNER REPAIR DETAIL**  
(NOT TO SCALE)



**TYPICAL "L" BAR DETAILS**  
(NOT TO SCALE)



**SPLICE DETAILS FOR PIER CAP STIRRUPS WITH ≥ 50% SECTION LOSS**  
(NOT TO SCALE)

**NOTES**

USE A PACHOMETER TO LOCATE EXISTING REINFORCEMENT WHEN DRILLING DOWEL HOLES TO AVOID DRILLING THRU EXISTING BARS.

**LEGEND**

- c : CONVENTIONAL METHOD (FORM AND PLACE) ONLY
- f : SHOTCRETE METHOD ONLY
- SSD : SATURATED SURFACE DRY
- WWF : WELDED WIRE FABRIC

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

BMS STR ID: 02-7301-0000-3934 MPMS/ECMS PROJ: 117472 BRKEY: 70368 (WALL 2)  
BMS STR ID: 02-7301-0000-3935 MPMS/ECMS PROJ: 117472 BRKEY: 70369 (WALL 1)

**COMMONWEALTH OF PENNSYLVANIA**  
**DEPARTMENT OF TRANSPORTATION**

**ALLEGHENY COUNTY**  
**SR 7301 SEC LOC**

PARKING LOT BRIDGE OVER S.R. 0051  
BRIDGE DEMOLITION AND BLOCK WALL

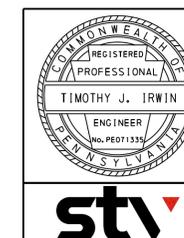
**DETERIORATED CONCRETE REPAIR DETAILS**

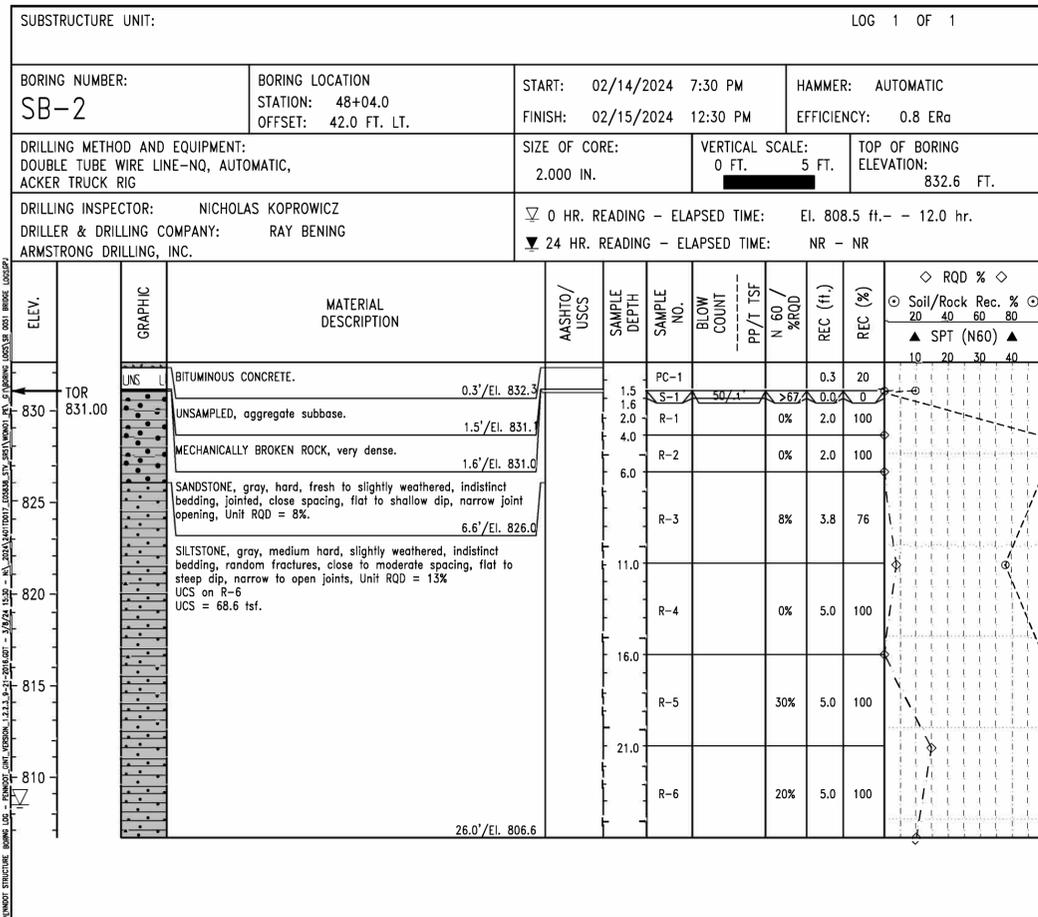
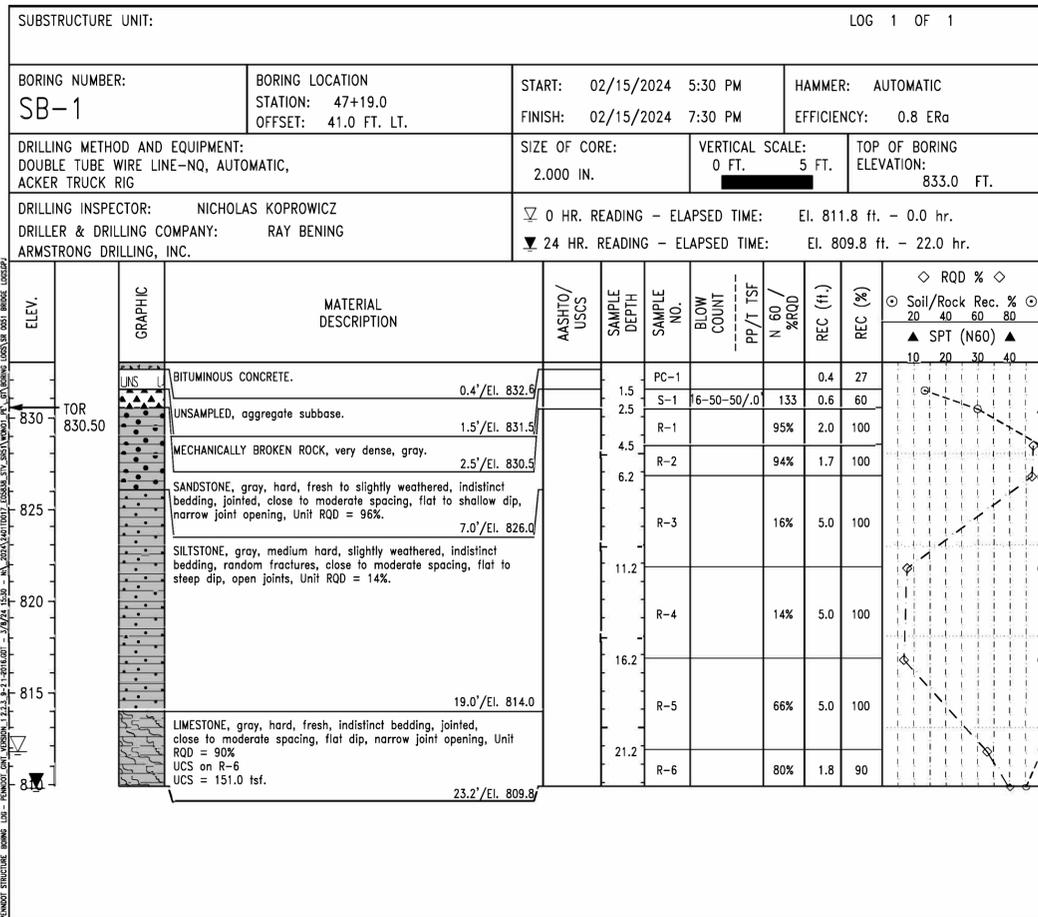
SHEET 13 OF 16

L - 560

ITEM 9000-9002 REPAIR DETERIORATED CONCRETE (FOR INFORMATION ONLY)	
(THIS ITEM INCLUDES PAYMENT FOR THE FOLLOWING MATERIALS AND THEIR INSTALLATIONS)	
DOWEL HOLES	SECTION 1003, DIAMETER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS
REINFORCEMENT BARS (EPOXY COATED)	SECTION 709.1
EPOXY ANCHORING SYSTEM	BULLETIN 15 AND MANUFACTURER'S RECOMMENDATIONS
WELDED WIRE FABRIC (WWF) EPOXY OR GALVANIZED	SECTION 709.3, 3x3, 4x4, OR 6x6 WWF MADE OF 8, 10, OR 11 GAUGE WIRE
ANNEALED IRON WIRE	ASTM A684
c FORMS	SECTION 1001.2(h)
c EPOXY BONDING COMPOUND	ASTM C881 TYPE II, GRADE 2
c CLASS AA CEMENT CONCRETE	SECTION 704 EXCEPT USE NO. 8 COARSE AGGREGATE
f SHOTCRETE	SECTION 1043.2(a)

NOTE: ANY ADDITIONAL REINFORCING STEEL IS INCIDENTAL TO ITEM 9000-9002.





GENERAL NOTES

THIS SHEET IS INCLUDED FOR THE CONVENIENCE OF THE DEPARTMENT. REFER TO PUBLICATION 408 SECTION 102.05 FOR FURTHER INFORMATION.

FOR ADDITIONAL SOIL AND ROCK DESCRIPTIONS SEE PUBLICATION 222.

THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND DATES INDICATED. SUBSURFACE CONDITIONS MAY DIFFER FROM THE CONDITIONS REPORTED AT THE SPECIFIC LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE OF CONDITIONS AT THE BORING LOCATIONS.

LEGEND

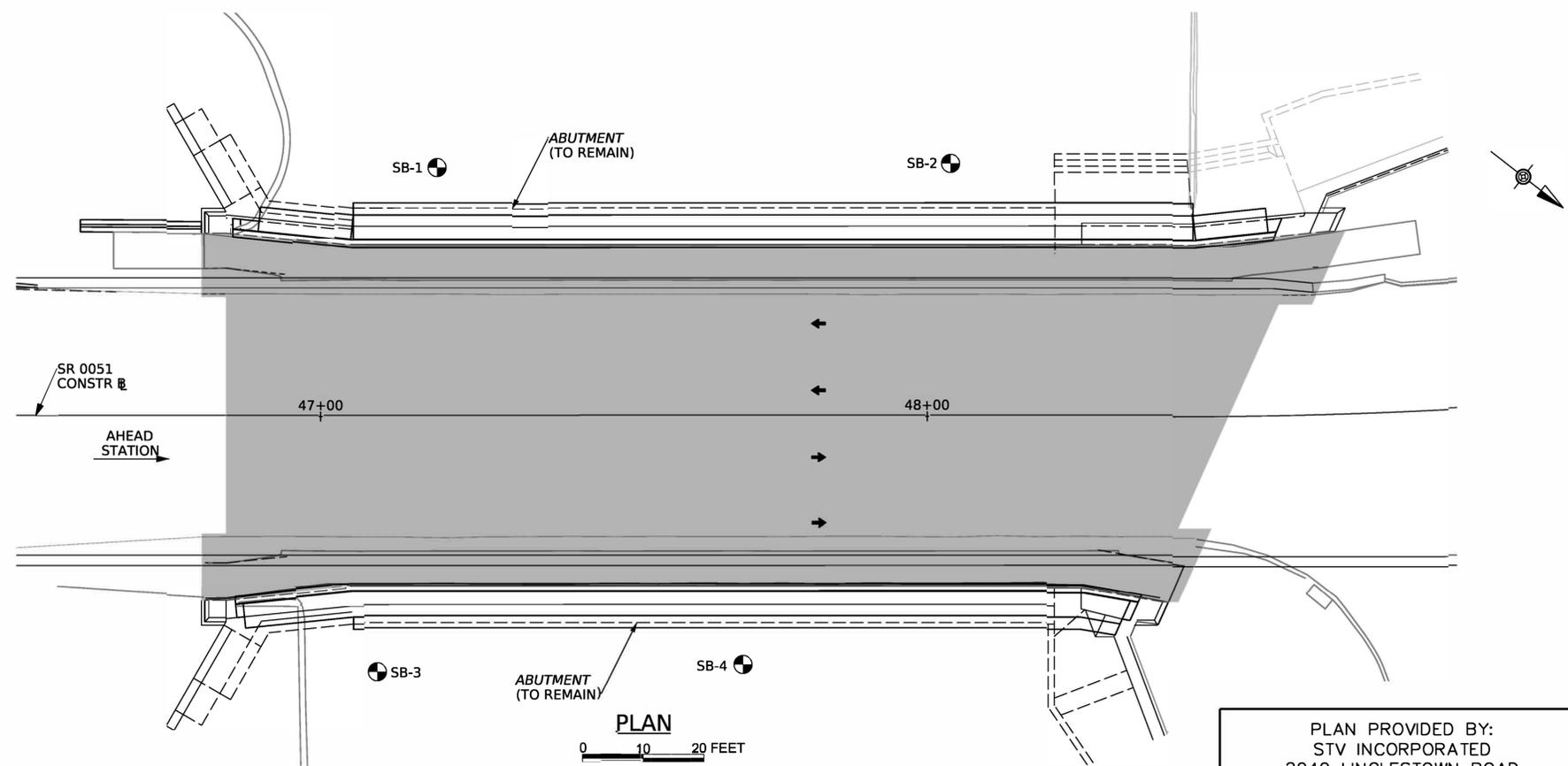
- PP POCKET PENETROMETER
- T TORVANE
- NTS NOT TO SCALE
- TOR ESTIMATED TOP OF ROCK ELEVATION
- TEST BORING LOCATION

THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.

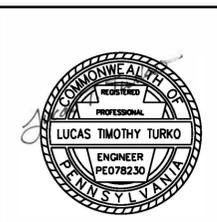
*JTT*

THE SUBSURFACE EXPLORATION DATA THAT ARE PRESENTED ON THESE DRAWINGS (INCLUDING BORING LOGS, EARTH SAMPLES, ROCK CORES, CLASSIFICATION OF MATERIALS AND DEPTH OF BORINGS) ACCURATELY REPRESENT THE CONDITIONS ENCOUNTERED BY THE TEST BORING PROGRAM AT EACH BORING LOCATION.

*Lucas T. Turko* 3/11/2024  
 GEOTECHNICAL ENGINEER/ENGINEERING GEOLOGIST DATE:



PLAN PROVIDED BY:  
 STV INCORPORATED  
 2040 LINGLESTOWN ROAD  
 SUITE 104  
 HARRISBURG, PA 17110



BMS STR ID: 02-7301-0000-3934 MPMS/ECMS PROJ: 117472 BRKEY: 70368 (WALL 2)  
 BMS STR ID: 02-7301-0000-3935 MPMS/ECMS PROJ: 117472 BRKEY: 70369 (WALL 1)

COMMONWEALTH OF PENNSYLVANIA  
 DEPARTMENT OF TRANSPORTATION  
 ALLEGHENY COUNTY  
 SR 7301 SEC LOC

PARKING LOT BRIDGE OVER S.R. 0051  
 BRIDGE DEMOLITION AND BLOCK WALL

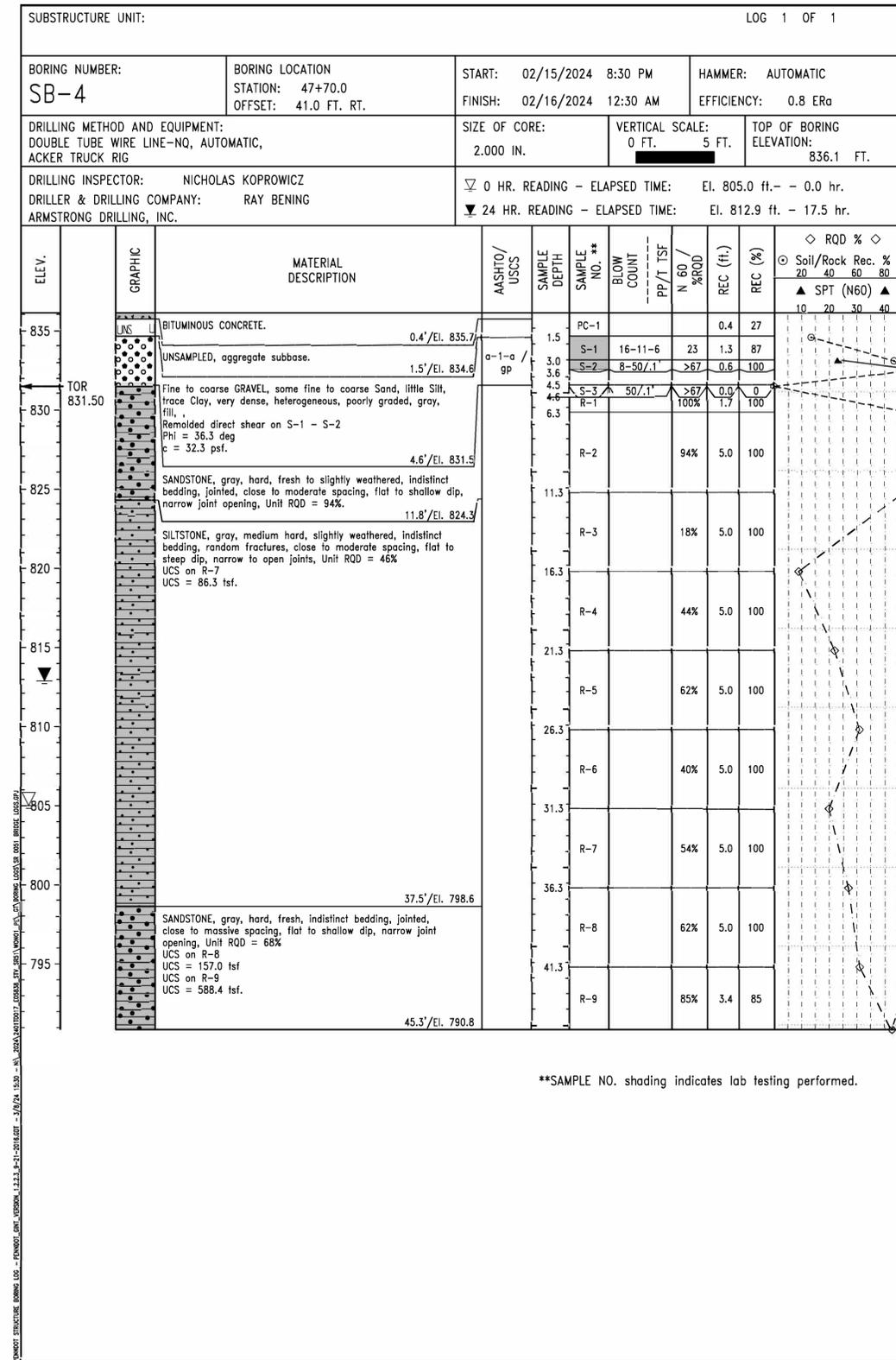
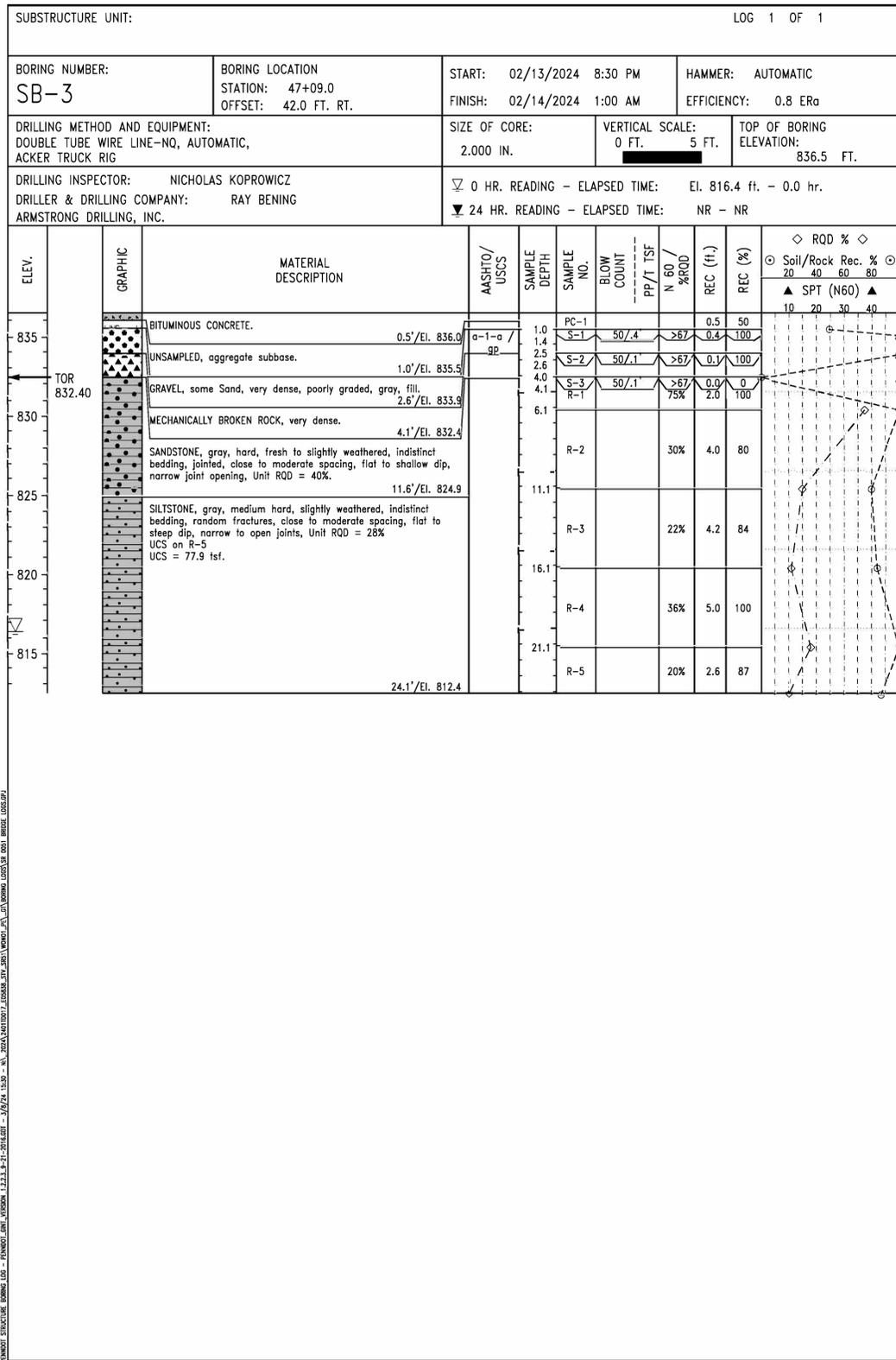
STRUCTURE BORINGS - 1

RECOMMENDED BY  
**Daniel J. Bliss** Digitally signed by Daniel J. Bliss  
 Date: 2024.04.04 07:50:45 -04'00'  
 DISTRICT GEOTECHNICAL ENGINEER

SHEET 14 OF 16  
 L - 560

3/18/2024  
 N:\2024\2401\TD017\_E05838\_STV\_SRF51\W0601\_PE\_CADD\MicroStation\SR\_0051\_StructureBoringSheet.dgn

3/18/2024 N:\2024\2401\TD017\_E05838\_STV\_SRF5\WONO1\_PE\_CADD\MicroStation\SR\_0051\_StructureBoringSheet.dgn



\*\*SAMPLE NO. shading indicates lab testing performed.

**GENERAL NOTES**

THIS SHEET IS INCLUDED FOR THE CONVENIENCE OF THE DEPARTMENT. REFER TO PUBLICATION 408 SECTION 102.05 FOR FURTHER INFORMATION.

FOR ADDITIONAL SOIL AND ROCK DESCRIPTIONS SEE PUBLICATION 222.

THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND DATES INDICATED. SUBSURFACE CONDITIONS MAY DIFFER FROM THE CONDITIONS REPORTED AT THE SPECIFIC LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE OF CONDITIONS AT THE BORING LOCATIONS.

**LEGEND**

- PP POCKET PENETROMETER
- T TORVANE
- NTS NOT TO SCALE
- TOR ESTIMATED TOP OF ROCK ELEVATION

THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.

BMS STR ID: 02-7301-0000-3934 MPMS/ECMS PROJ: 117472 BRKEY: 70368 (WALL 2)  
BMS STR ID: 02-7301-0000-3935 MPMS/ECMS PROJ: 117472 BRKEY: 70369 (WALL 1)

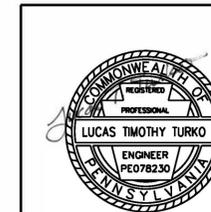
COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF TRANSPORTATION  
ALLEGHENY COUNTY  
SR 7301 SEC LOC

PARKING LOT BRIDGE OVER S.R. 0051  
BRIDGE DEMOLITION AND BLOCK WALL

**STRUCTURE BORINGS - 2**

RECOMMENDED BY  
**Daniel J. Bliss** Digitally signed by Daniel J. Bliss  
Date: 2024.04.04 08:01:14 -04'00'  
DISTRICT GEOTECHNICAL ENGINEER

SHEET 15 OF 16  
L - 560



LABORATORY TEST SUMMARY – SOILS

BORING NUMBER	STATION & OFFSET	SAMPLE #	TEST DEPTH (FT.)	NATURAL MOISTURE %	% GRAIN SIZE DISTRIBUTION (AASHTO)							CLASSIFICATION		PLASTICITY PARAMETERS			SHEAR STRENGTH					
					GRAVEL %	SAND %	COARSE SAND %	FINE SAND %	FINES %	SILT %	CLAY %	AASHTO	USCS	S.G.	LIQUID LIMIT	PLASTIC LIMIT	P. I.	c (TSF)	φ (DEG.)	c' (TSF)	φ' (DEG.)	TEST METHOD
SB-4	47+70.0 41.0 FT. RT.	S-1 to S-2	1.5 to 3.6	15.5	61.2	24.7	15.7	9.1	14.0									32.300	36.3			DIR. SHR.-CD

LABORATORY TEST SUMMARY – SHEAR AND CONSOLIDATION

BORING NUMBER	STATION & OFFSET	SAMPLE #	TEST DEPTH (FT.)	SHEAR STRENGTH PARAMETERS					CONSOLIDATION PARAMETERS													
				c (TSF.)	φ (DEG.)	c' (TSF.)	φ' (DEG.)	TEST METHOD	INITIAL MOIST DENSITY (PCF)	e0	PRECONSOLID. PRESSURE Pp (TSF)	COMPRESSION INDEX (Cc)	RECOMPRESSION INDEX (Cr)	COEFF. OF CONSOLID. (cv FT2/YR)	PERMEABILITY k (CM/SEC)							
SB-4	47+70.0 41.0 FT. RT.	S-1 to S-2	1.5 to 3.6	32.300	36.3			DIR. SHR.-CD														

LABORATORY TEST SUMMARY – ROCK CORE

BORING NUMBER	STATION & OFFSET	SAMPLE #	TEST DEPTH (FT.)	TEST	STRENGTH	JAR SLAKE TEST PERFORMED?	SLAKE DURABILITY INDEX & TYPE	ROCK RECOVERY %	RQD %	BEDROCK LITHOLOGY	STRATIGRAPHIC UNIT
SB-1	47+19.0 41.0 FT. LT.	R-6	22.4 to 23.2	UNCONFINED COMPRESSIVE TEST	2097.2 PSI / 151.0 TSF	NO		90	80	LIMESTONE	
SB-2	48+04.0 42.0 FT. LT.	R-6	24.0 to 24.6	UNCONFINED COMPRESSIVE TEST	952.8 PSI / 68.6 TSF	NO		100	20	SILTSTONE	
SB-3	47+09.0 42.0 FT. RT.	R-5	23.5 to 24.1	UNCONFINED COMPRESSIVE TEST	1081.9 PSI / 77.9 TSF	NO		87	20	SILTSTONE	
SB-4	47+70.0 41.0 FT. RT.	R-7	32.7 to 33.2	UNCONFINED COMPRESSIVE TEST	1198.6 PSI / 86.3 TSF	NO		100	54	SILTSTONE	
SB-4	47+70.0 41.0 FT. RT.	R-8	38.2 to 38.7	UNCONFINED COMPRESSIVE TEST	2180.6 PSI / 157.0 TSF	NO		100	62	SANDSTONE	
SB-4	47+70.0 41.0 FT. RT.	R-9	43.6 to 44.2	UNCONFINED COMPRESSIVE TEST	8172.2 PSI / 588.4 TSF	NO		85	85	SANDSTONE	

GENERAL NOTES

THIS SHEET IS INCLUDED FOR THE CONVENIENCE OF THE DEPARTMENT. REFER TO PUBLICATION 408 SECTION 102.05 FOR FURTHER INFORMATION.

FOR ADDITIONAL SOIL AND ROCK DESCRIPTIONS SEE PUBLICATION 222.

THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND DATES INDICATED. SUBSURFACE CONDITIONS MAY DIFFER FROM THE CONDITIONS REPORTED AT THE SPECIFIC LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE OF CONDITIONS AT THE BORING LOCATIONS.

LEGEND

- PP POCKET PENETROMETER
- T TORVANE
- NTS NOT TO SCALE
- TOR ESTIMATED TOP OF ROCK ELEVATION

THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.

BMS STR ID: 02-7301-0000-3934 MPMS/ECMS PROJ: 117472 BRKEY: 70368 (WALL 2)  
BMS STR ID: 02-7301-0000-3935 MPMS/ECMS PROJ: 117472 BRKEY: 70369 (WALL 1)

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF TRANSPORTATION

ALLEGHENY COUNTY  
SR 7301 SEC LOC

PARKING LOT BRIDGE OVER S.R. 0051  
BRIDGE DEMOLITION AND BLOCK WALL

STRUCTURE BORINGS – 3

RECOMMENDED BY

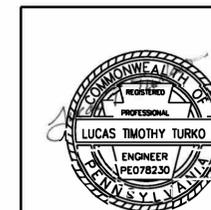
Daniel J. Bliss

Digitally signed by Daniel J. Bliss  
Date: 2024.04.04 08:06:07 -04'00'

SHEET 16 OF 16

DISTRICT GEOTECHNICAL ENGINEER

L – 560



**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Emergency Application of the Department of Transportation of the Commonwealth of Pennsylvania and the City of Pittsburgh for approval to abolish the public above grade crossing and remove the bridge carrying the abandoned cartway of Pittsburgh & West Virginia Railway Company (and the West Side Belt Railroad Company) above S.R. 0051, DOT Number 472 968G in the City of Pittsburgh, Allegheny County and the allocation of costs incident thereto.

Application  
Docket No. \_\_\_\_\_

**Electronically Filed**

VERIFICATION

I, Michele Acitelli, hereby state that the facts above set forth are true and correct to the best of my knowledge, information, and belief and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa.C.S. §4904 (relating to unsworn falsification to authorities).

Date: 5/2/24 \_\_\_\_\_

\_\_\_\_\_  
Michele Acitelli, P.E.  
Utility and Grade Crossing Manager  
Department of Transportation  
Engineering District 11-0  
45 Thoms Run Road  
Bridgeville, PA 15017  
miacitelli@pa.gov

**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Emergency Application of the Department of Transportation of the Commonwealth of Pennsylvania and the City of Pittsburgh for approval to abolish the public above grade crossing and remove the bridge carrying the abandoned cartway of Pittsburgh & West Virginia Railway Company (and the West Side Belt Railroad Company) above S.R. 0051, DOT Number 472 968G in the City of Pittsburgh, Allegheny County and the allocation of costs incident thereto.

Application  
Docket No. \_\_\_\_\_

**Electronically Filed**

CERTIFICATE OF SERVICE

I hereby certify that I have this day served a true copy of the foregoing document upon the participants listed below by electronic mail.

Mr. Kasey O'Connor.  
Wheeling & Lake Erie Railway Company  
100 East First Street  
Brewster, OH 44613  
[koconnor@wlerwy.com](mailto:koconnor@wlerwy.com)

Mr. Jeffrey A. Davis Jr.  
Wheeling & Lake Erie Railway Company  
100 East First Street  
Brewster, OH 44613  
[jdavisjr@wlerwy.com](mailto:jdavisjr@wlerwy.com)

Ms. Amie Downs  
Allegheny County  
101 County Courthouse  
436 Grant Street  
Pittsburgh, PA 15219  
[Amie.Downs@AlleghenyCounty.US](mailto:Amie.Downs@AlleghenyCounty.US)

Mr. Chris Hornstein  
City of Pittsburgh  
Director of Public Works  
414 Grant St  
Pittsburgh, PA 15219  
[chris.hornstein@pittsburghpa.gov](mailto:chris.hornstein@pittsburghpa.gov)

Mr. Jeffrey Skalican, Deputy Director  
City of Pittsburgh  
Department of Mobility and Infrastructure  
City County Building, Suite 301  
414 Grant Street  
Pittsburgh, PA 15219  
[jeff.skalican@pittsburghpa.gov](mailto:jeff.skalican@pittsburghpa.gov)

Mr. Eric J. Setzler, P.E., Chief Engineer  
Department of Mobility and Infrastructure  
City County Building | Room 301  
414 Grant Street  
Pittsburgh, PA 15219  
[eric.setzler@pittsburghpa.gov](mailto:eric.setzler@pittsburghpa.gov)

Mr. Jim Runatz  
Duquesne Light Company  
[jrunatz@duqlight.com](mailto:jrunatz@duqlight.com)  
1901 Edison Street  
Glenshaw, PA 15116

Mr. Theodore Toth  
Verizon Pennsylvania, LLC  
27 West Church Street  
Uniontown, PA 15401  
[theodore.m.toth@verizon.com](mailto:theodore.m.toth@verizon.com)

Mr. Adam Bromley  
PA American Water Company.  
300 Galley Road  
McMurray, PA 15317  
[Adam.bromley@amwater.com](mailto:Adam.bromley@amwater.com)

Mr. Michael Lichte  
ALCOSAN  
3300 Preble Avenue  
Pittsburgh, PA 15233  
[michael.lichte@alcosan.org](mailto:michael.lichte@alcosan.org)

Mr. Ben Grunauer  
Pittsburgh Water & Sewer Authority  
1200 Penn Avenue  
Pittsburgh, PA 15222  
[BGrunauer@pgh2o.com](mailto:BGrunauer@pgh2o.com)

Mr. Anthony Francioni  
Comcast Cable Communications  
1530 Chartiers Ave  
Pittsburgh, PA 15204  
[Anthony.Francioni@comcast.com](mailto:Anthony.Francioni@comcast.com)

Ms. Stephanie Lewis  
Columbia Gas of PA, Inc.  
501 Technology Drive  
Canonsburg, PA 153017  
[Sklewis@nisource.com](mailto:Sklewis@nisource.com)

Dated this 2 Day of May, 2024

---

Michele Acitelli, P.E.  
Utility & Grade Crossing Manager  
Department of Transportation  
Engineering District 11-0  
45 Thoms Run Road  
Bridgeville, PA 15017  
[miacitelli@pa.gov](mailto:miacitelli@pa.gov)