



September 19, 2025

Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
400 North Street  
Harrisburg, PA 17105-3265

Re: Philadelphia County  
City of Philadelphia  
SR 0000 CPD  
Columbus Blvd/ PackerAve/  
Delaware Ave Inters Imp  
No. A-2024-3051279  
MPMS# 81304

Dear Secretary Chiavetta,

Department of Transportation is submitting Final Plans for approval on behalf of the City of Philadelphia as directed by the PUC in Secretarial Letter dated March 21, 2025. Attached for approval is one copy of the Final signed Construction Plans for the Construction of State Route 0000, Section CPD in Philadelphia County.

The Department of Transportation hereby avers that a set of the aforesaid final Plans are being sent to the parties of record as indicated on the Certificate of Service for examination simultaneously with this submission to the Public Utility Commission.

Department of Transportation on behalf of the City of Philadelphia respectfully request the approval of these Plans. Should you have any questions or concerns, please feel free to contact K. Michael Anderson at (610) 205 - 6867.

Sincerely,

*/s/ K. Michael Anderson*

K. Michael Anderson,  
District RR Administrator  
Engineering District 6-0  
Department of Transportation

Attachments

cc: Parties of Record

Mark Chappell, Chief, Right-of-Way, Utilities, and Grade Crossing Division, 7<sup>th</sup> Floor, CKB  
Karen Cummins, Assistant Counsel in Charge, Office of Chief Counsel, 9<sup>th</sup> Floor, CKB  
Supervisor, Rail Safety Engineering Section, PUC, 3<sup>rd</sup> Floor, C

**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Application of the City of Philadelphia for approval of the alteration of the crossing carrying Delaware Avenue (Pennsylvania State Route 32) over at-grade the right-of-way of Philadelphia Belt Line Railroad Company, located in the City of Philadelphia, Philadelphia County, and the allocation of certain costs and expenses incident thereto.

Application  
Docket No. A-2024-3051279

**Electronically Filed**

VERIFICATION

I, K. Michael Anderson, District Railroad Administrator, 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: September 19, 2025

*/s/ K. Michael Anderson*

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K. Michael Anderson  
District Railroad Administrator

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Application  
Docket No. A-2024-3051279

**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 pursuant to the Emergency Order at Docket Number M-2020-3019262:

I hereby certify that I have this day served a true copy of the foregoing document upon the participants listed below, in accordance with the requirements of 52 Pa. Code § 1.54, by Electronic Mail Only:

Pennsylvania Department of Transportation, Multimodal Deputate  
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Pennsylvania Department of Transportation, District 6-0  
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King of Prussia, Pa 19406  
[c-pshultes@pa.gov](mailto:c-pshultes@pa.gov)

Kimley-Horn  
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360 Philadelphia PA, 19106  
[george.c.woodward@verizon.net](mailto:george.c.woodward@verizon.net)

CSX

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Philadelphia, PA 19148  
[rob\\_girardot@csx.com](mailto:rob_girardot@csx.com)

Norfolk Southern

Jeremy Shoemaker, Regional Executive Director of State Relations  
[Jeremy.Shoemaker@nscorp.com](mailto:Jeremy.Shoemaker@nscorp.com)

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Philadelphia, PA 19107  
[matthew.fulmer@phila.gov](mailto:matthew.fulmer@phila.gov)

Greenwich Terminals LLC (PAMT)/Holt Logistics  
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Bellmawr, New Jersey 08031  
[ed@challengerrealtygroup.com](mailto:ed@challengerrealtygroup.com)

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[justink@eco-energy.com](mailto:justink@eco-energy.com)

INEOS Chemical  
Scott Wright  
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Philadelphia, PA 19148

Dependable Distribution Services, Inc. Bill Golden  
2401 Columbus Blvd, Pier 84  
Philadelphia, PA 19148  
[william@ddsocoa.com](mailto:william@ddsocoa.com)

Dated this 19th Day of September 2025

*/s/ K. Michael Anderson*

K Michael Anderson  
District Railroad Administrator  
7000 Geerdes Boulevard Ave  
King of Prussia, PA 19406  
610-205-6530  
[kmanderson@pa.gov](mailto:kmanderson@pa.gov)

**PLAN PREPARATION**

PROJECT MANAGER: STEPHEN MCGINLEY, P.E.  
 DESIGNER: ZAID AJLANI, P.E.

DISTRICT	COUNTY	CITY	ROUTE	SECTION	TOTAL SHEETS
6-0	PHILADELPHIA	PHILADELPHIA	0000	CPD	29

CITY OF PHILADELPHIA				
REV NO	REVISIONS	DATE	BY	APPD

CITY LOG NO. 81304-01  
 CITY WOID NO. 1260677  
 PENNDOT LOG NO. P4361-03  
 ECMS NO. 81304

COMMONWEALTH OF PENNSYLVANIA



DEPARTMENT OF TRANSPORTATION

DRAWINGS

FOR  
 CONSTRUCTION  
 OF

CITY STREET: S CHRISTOPHER COLUMBUS BOULEVARD

IN PHILADELPHIA COUNTY

FROM STA. 211+98.95 TO STA. 222+06.58 LENGTH 1,007.63 FT. 0.191 MI.

AND

CITY STREET: S DELAWARE AVENUE

FROM STA. 112+84.92 TO STA. 138+08.85 LENGTH 2,523.93 FT. 0.478 MI.

AND

CITY STREET: PACKER AVENUE

FROM STA. 300+91.61 TO STA. 303+91.61 LENGTH 300.00 FT. 0.057 MI.

TOTAL CONSTRUCTION LENGTH 3564.25 FT. 0.675 MI.

PUC DOCUMENT NUMBERS: A-2024-3051279  
A-2025-3053810

SCALE



THE BENCHMARK IS SET ON CONTROL POINT 1 AT 4.08 FEET.  
 CONVERSION FACTOR BETWEEN NAVD88 TO PHL DATUM FOR THIS PROJECT IS:  
 CITY DATUM = NAVD88 - (4.12 FEET)

S DELAWARE AVE DESIGN DESIGNATION

HIGHWAY CLASSICATION - MAJOR COLLECTOR  
 DESIGN SPEED - 25 MPH  
 PAVEMENT WIDTH - 60'-72'  
 SHOULDER WIDTH - 0'-17'

TRAFFIC DATA

CURRENT ADT (2026) - 2,668  
 DESIGN YEAR ADT (2046) - 5,107  
 DHV - 1,125  
 D - 67  
 T - 47

S CHRISTOPHER COLUMBUS BLVD DESIGN DESIGNATION

HIGHWAY CLASSICATION - PRINCIPAL ARTERIAL  
 DESIGN SPEED - 35 MPH  
 PAVEMENT WIDTH - 60'-69'  
 SHOULDER WIDTH - 0'-7'

TRAFFIC DATA

CURRENT ADT (2026) - 6,509  
 DESIGN YEAR ADT (2046) - 12,460  
 DHV - 1,380  
 D - 71  
 T - 31

ALSO INCLUDED:

SIGNING AND PAVEMENT MARKING PLAN	17 SHEETS
TRAFFIC SIGNAL PLAN	7 SHEETS
EROSION AND SEDIMENT POLLUTION CONTROL PLAN	7 SHEETS
TRAFFIC CONTROL PLAN	35 SHEETS
CROSS SECTIONS	16 SHEETS
WATER MAIN RELAY PLAN	8 SHEETS

PREPARED BY: <b>Kimley»Horn</b> 	RECOMMENDED DATE: <u>9/12/2025</u>  DISTRICT EXECUTIVE
	RECOMMENDED DATE: <u>09/12/2025</u>  DEPUTY SECRETARY
	APPROVED DATE: <u>09/12/2025</u>  SECRETARY OF TRANSPORTATION (ON BEHALF OF THE GOVERNOR AS WELL AS THE SECRETARY)
DATE: <u>9/11/2025</u>	

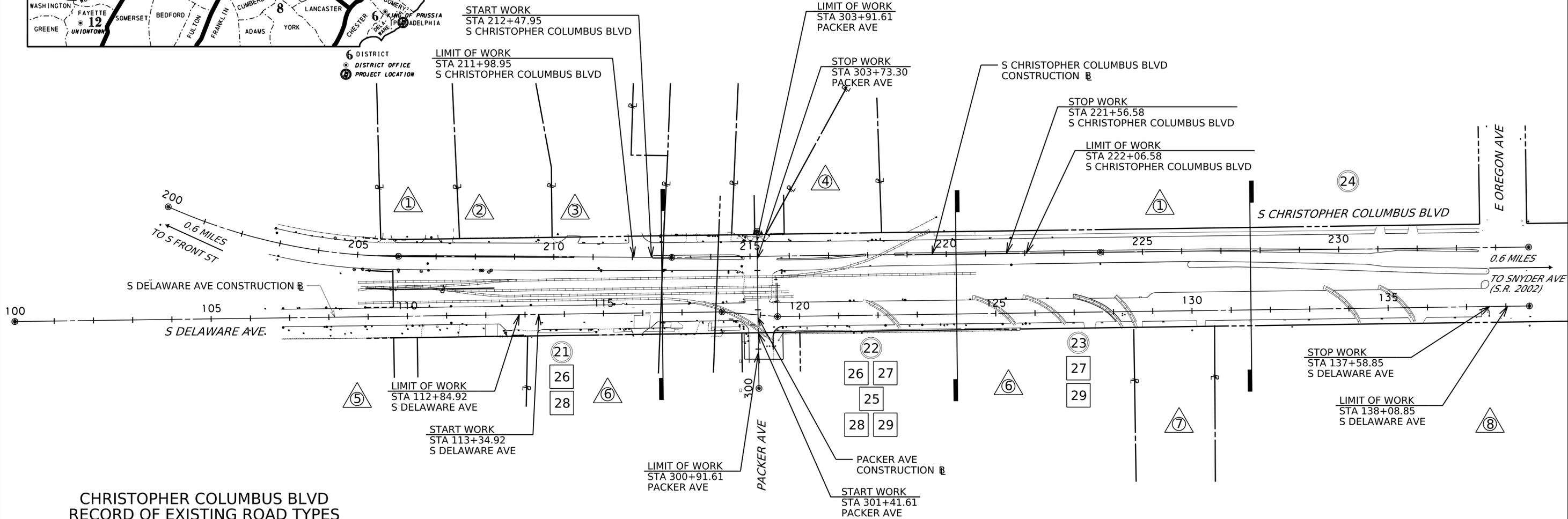
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	0000	CPD	2 OF 29
CITY OF PHILADELPHIA				
REV NO	REVISIONS	DATE	BY	APPD

COLUMBUS BLVD/PACKER AVE/DELAWARE AVE INTERS. IMP.  
ECMS #81304 PENNDOT LOG #P4361-03 CITY LOG # 81304-01



### LIST OF PROPERTY OWNERS

- ① N/F PHILADELPHIA REGIONAL PORT AUTHORITY
- ② N/F DOUGHERTY RECYCLING LLC
- ③ N/F REPUBLIC SERVICE INC, THOMAS REUTERS, INC
- ④ N/F ROYAL WHITE CEMENT REAL ESTATE INC
- ⑤ CITY OF PHILADELPHIA 43.97%, GENERAL STATE AUTHORITY 56.03%
- ⑥ N/F DELAWARE AVENUE ENTERPRISES
- ⑦ N/F ASHLAND INC
- ⑧ U S OF AMERICA

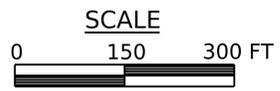


### CHRISTOPHER COLUMBUS BLVD RECORD OF EXISTING ROAD TYPES

NOTE: THE MATERIAL AND DEPTHS 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.

LIMITS OF WORK  
THIS INFORMATION IS UNAVAILABLE BUT IS ASSUMED TO BE PLAIN CEMENT CONCRETE BASE WITH ASPHALT BINDER AND WEARING COURSES.

### INDEX MAP

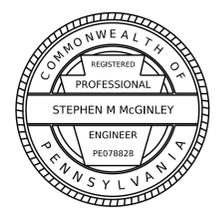


### SHEET INDEX

DESCRIPTION	SHEET
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### LEGEND

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





# PHILADELPHIA WATER DEPARTMENT (PWD) STANDARD NOTES

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	0000	CPD	4 OF 29
CITY OF PHILADELPHIA				
REV NO	REVISIONS		DATE	BY

### WATER MAIN NOTES:

- ALL WORK TO BE DONE IN ACCORDANCE WITH THE CITY OF PHILADELPHIA WATER DEPARTMENT "WATER MAIN STANDARD DETAILS & CORROSION CONTROL SPECIFICATIONS".
- THE CONTRACTOR PERFORMING THE WATER & SEWER INSTALLATION MUST BE PREQUALIFIED BY PWD. CONTACT MR. VAHE HOVSEPIAN OF THE PROJECTS MANAGEMENT UNIT AT VAHE.HOVSEPIAN@PHILA.GOV
- THE APPROVED WORK MUST BE DONE IN THE PRESENCE OF A PWD INSPECTOR.
- THE CONTRACTOR PERFORMING THIS WORK IS TO NOTIFY THE PWD CONSTRUCTION DIVISION, 1101 MARKET STREET, 2ND FLOOR, PHONE (215) 685-6345, AT LEAST 7 DAYS IN ADVANCE FOR ASSIGNMENT OF AN INSPECTOR TO THE JOB. WATER SHUT-OFF TO BE REQUESTED BY THE INSPECTOR ONLY.
- THE CONTRACTOR MUST PROVIDE OFFICE SPACE FOR USE BY THE PWD INSPECTOR DURING CONSTRUCTION.
- A LIST OF ALL MATERIALS AND SUPPLIERS MUST BE SUBMITTED TO THE WATER DEPARTMENT CONSTRUCTION BRANCH FOR APPROVAL.
- APPROVAL OF THESE PLANS BY THE WATER DEPARTMENT IS STRICTLY LIMITED TO THE DESIGN OF DUCTILE IRON WATER MAINS 6 INCHES IN DIAMETER AND ABOVE SHOWN WITHIN THE LIMITS OF THE CITY OF PHILADELPHIA PUBLIC RIGHT OF WAY.
- CONTACT PWD-WATER TRANSPORT RECORDS, 1101 MARKET STREET, 2ND FLOOR, WTR@PHILA.GOV FOR ADDITIONAL APPROVALS AND PERMITS REQUIRED FOR ALL WATER SERVICES, METERS AND CONNECTIONS TO THE EXISTING AND/OR PROPOSED PWD FACILITIES.
- THE CONTRACTOR OR ENGINEER IS RESPONSIBLE FOR OBTAINING ALL ADDITIONAL PERMITS AND APPROVALS FROM ALL AFFECTED CITY AGENCIES AND UTILITIES.
- CORROSION CONTROL STUDY IS NECESSARY FOR ALL NEWLY CONSTRUCTED DUCTILE IRON PIPE LOCATED WITHIN A CORRIDOR WHERE THERE EXISTS NO WATER MAIN INFRASTRUCTURE. THE STUDY AND DESIGN, IF NECESSARY, MUST BE PERFORMED BY A PWD APPROVED CORROSION CONSULTANT. INSPECTION OF NEW CORROSION CONTROL SYSTEMS WILL BE PAID FOR BY THE DEVELOPER.
- WHEREVER EXISTING CORROSION CONTROL OF WATER MAINS IS DISTURBED, IT MUST BE RESTORED AND INSPECTED TO THE SATISFACTION OF THE PHILADELPHIA WATER DEPARTMENT.
- PRIOR TO OBTAINING A BUILDING PERMIT, THE CONTRACTOR IS REQUIRED TO OBTAIN PWD STORMWATER MANAGEMENT APPROVAL, AND SEWAGE FACILITIES PLANNING (ACT 537) APPROVAL.
- ANY CHANGE TO, OR DEVIATION FROM, THE FINAL APPROVED DESIGN PLANS DURING CONSTRUCTION MUST BE APPROVED BY THE ASSIGNED PWD-CONSTRUCTION DIVISION ENGINEER.
- PLACE AND COMPACT BACKFILL IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR EXCAVATION, REFILLING, GRADING, LANDSCAPING AND REPAVING.
- DISINFECT ALL NEW WATER MAINS IN ACCORDANCE WITH W-22 AND AWWA C651.
- TEST NEW WATER MAINS IN ACCORDANCE WITH AWWA C600, SECTION 4. TAKE ALL NECESSARY PRECAUTIONS TO PREVENT TEST PRESSURE FROM ENTERING ADJOINING DISTRIBUTION SYSTEM. TEST DISTRIBUTION MAINS AT 150 PSI FOR AT LEAST ONE HOUR. HYDROSTATIC TEST SHALL BE COMPLETED WITH NO MEASURABLE DROP IN PRESSURE. UPON A DROP IN PRESSURE, DETERMINE THE AMOUNT OF LEAKAGE BY MEASURING THE ADDITIONAL QUANTITY OF WATER THAT IS PUMPED INTO THE MAIN TO MAINTAIN PRESSURE WITHIN 5 PSI OF THE SPECIFIED TEST PRESSURE. WHERE THE MEASURED LEAKAGE EXCEEDS THE ESTABLISHED ALLOWABLE AMOUNTS THEN THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE AND MAKE APPROVED REPAIRS AS NECESSARY UNTIL THE LEAKAGE IS WITHIN THE SPECIFIED ALLOWANCE. REPAIR ALL VISIBLE LEAKS, REGARDLESS OF THE AMOUNT OF LEAKAGE.
- THE ABANDONED WATER MAIN VALVE FRAMES AND FIRE HYDRANTS SHALL BE REMOVED AND DELIVERED INTACT TO PHILADELPHIA WATER DEPARTMENT AT 29TH & CAMBRIA STREETS.
- FIRE HYDRANTS SHALL NOT BE CONSTRUCTED OR RELOCATED UNTIL SUCH EQUIPMENT AND LOCATIONS HAVE BEEN APPROVED BY THE WATER DEPARTMENT CONSTRUCTION DIVISION IN THE FIELD. THE CONSTRUCTION OR RELOCATION OF SUCH FACILITIES WITHOUT THE ABOVE APPROVAL WILL BE DONE AT THE RISK OF THE CONTRACTOR.
- ALL ACTIVE SERVICES ARE TO BE RECONNECTED TO THE NEW MAIN IN ACCORDANCE WITH THE PHILADELPHIA PLUMBING CODE.
- "D" PERMITS ARE REQUIRED FOR ALL EXISTING CONNECTIONS THAT ARE TO BE ABANDONED. PLEASE HAVE THE CONSULTANT CONTACT L&I WATER PERMIT ISSUANCE UNIT AT TEL. NO. (215) 686-2577/78.
- THE CONTRACTOR MUST PROVIDE AT MINIMUM TWO (2) WEEK'S NOTICE PRIOR TO PERFORMING ANY WORK NEAR A PWD TRANSMISSION MAIN. ANY WORK NEAR THE PWD WATER TRANSMISSION SYSTEM REQUIRES THAT A TRANSMISSION MAIN SHUTDOWN REQUEST FORM BE SUBMITTED TO LCSHUTDOWN@PHILA.GOV, AND THE WORK MUST BE COORDINATED WITH THE LOAD CONTROL OPERATIONS ENGINEER.
- EQUIPMENT USED IN CONSTRUCTION SHALL BE OF SUCH WEIGHT, SIZE AND CAPACITY TO EFFICIENTLY WORK WITHOUT CAUSING INSTABILITY OR DISPLACEMENT TO THE WATER MAIN. EXISTING CAST IRON WATER MAINS ARE PARTICULARLY SUSCEPTIBLE TO THE NEGATIVE IMPACTS OF ADJACENT CONSTRUCTION WORK. NO STORAGE OF MATERIALS OR SPOILS ARE TO BE STORED OVER THE WATER MAINS.
- THE FOLLOWING NOTES MAY BE REQUIRED. IF A HPFS HYDRANT IS TO BE ABANDONED: THE CONTRACTOR SHALL REMOVE THE HIGH PRESSURE FIRE HYDRANT, AND ABANDON THE HIGH PRESSURE FIRE SYSTEM HYDRANT VALVE MANHOLE AS SHOWN ON THE CONTRACT DRAWINGS. EXCAVATE AND EXPOSE THE ENTIRE HYDRANT ABOVE AND BELOW GRADE. CLOSE THE FIRE HYDRANT VALVE. SAWCUT THE STANDPIPE AND STEM 2 FEET BELOW STREET GRADE. TIE OFF THE STEM IN ITS CLOSED POSITION TO PREVENT THE CONCRETE GETTING INTO THE ELBOW. FILL THE REMAINING PORTION OF THE STANDPIPE WITH CONCRETE. THE HYDRANT REMOVED WILL BECOME THE PROPERTY OF THE CONTRACTOR WHO IS RESPONSIBLE FOR ITS DISPOSAL. BACKFILL THE TRENCH WITH SELECT GRANULAR MATERIAL - 2RC UP TO SUBGRADE ELEVATION. COMPACT THE TRENCH, AND RESTORE DISTURBED CONCRETE CURBING AND FOOTWAY PAVING.
- THE CONTRACTOR MUST PROVIDE AS-BUILT RECORD DRAWINGS PER PHILADELPHIA WATER DEPARTMENT WATER MAIN INFRASTRUCTURE AS-BUILT SURVEY & DRAFTING MANUAL REQUIREMENTS.

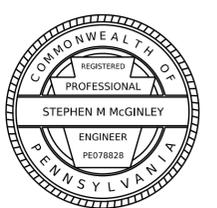
### SEWER NOTES:

- ALL WORK TO BE DONE IN ACCORDANCE WITH THE CITY OF PHILADELPHIA WATER DEPARTMENT "STANDARD DETAILS & STANDARD SPECIFICATIONS FOR SEWERS".
- THE CONTRACTOR PERFORMING THE WATER & SEWER INSTALLATION MUST BE PREQUALIFIED BY THE PHILADELPHIA WATER DEPARTMENT (PWD). CONTACT MR.VAHE HOVSEPIAN OF THE PROJECT MANAGEMENT UNIT AT VAHE.HOVSEPIAN@PHILA.GOV.
- THE APPROVED WORK MUST BE DONE IN THE PRESENCE OF A PWD INSPECTOR.
- THE CONTRACTOR PERFORMING THIS WORK IS TO NOTIFY THE PWD CONSTRUCTION DIVISION, 1101 MARKET STREET, 2ND FLOOR, PHONE (215) 685-6345, AT LEAST 7 DAYS IN ADVANCE FOR ASSIGNMENT OF AN INSPECTOR TO THE JOB.
- THE CONTRACTOR MUST PROVIDE OFFICE SPACE FOR USE BY THE PWD INSPECTOR DURING CONSTRUCTION.
- APPROVAL OF THESE PLANS BY THE WATER DEPARTMENT IS STRICTLY LIMITED TO THE DESIGN OF SEWERS 15-INCHES IN DIAMETER AND LARGER SHOWN WITHIN THE LIMITS OF THE CITY OF PHILADELPHIA PUBLIC RIGHT OF WAY. ADDITIONAL APPROVALS AND PERMITS ARE REQUIRED FOR ALL DRAINAGE CONNECTIONS TO THE EXISTING PWD FACILITIES.
- CONTACT PWD-WATER TRANSPORT RECORDS, 1101 MARKET STREET, 2ND FLOOR, WTR@PHILA.GOV, FOR ADDITIONAL APPROVALS AND PERMITS REQUIRED FOR ALL SEWER CONNECTIONS TO THE EXISTING AND/OR PROPOSED PWD FACILITIES.
- THE ELEVATION OF THE EXISTING SEWER AT THE CONNECTION POINT MUST BE FIELD-CHECKED BY THE CONTRACTOR IN THE PRESENCE OF A PWD INSPECTOR PRIOR TO CONSTRUCTING THE NEW SEWER.
- FIELD-FABRICATED WYE BRANCHES AND BENDS ARE NOT PERMITTED.
- A LIST OF ALL MATERIALS AND SUPPLIERS MUST BE SUBMITTED TO THE PWD CONSTRUCTION BRANCH FOR APPROVAL.
- THE CONTRACTOR OR ENGINEER IS RESPONSIBLE FOR OBTAINING ALL ADDITIONAL PERMITS AND APPROVALS FROM ALL AFFECTED CITY AGENCIES AND UTILITIES.
- PRIOR TO OBTAINING A BUILDING PERMIT, THE CONTRACTOR IS REQUIRED TO OBTAIN PWD STORMWATER MANAGEMENT APPROVAL, AND SEWAGE FACILITIES PLANNING (ACT 537) APPROVAL.
- ANY CHANGE TO, OR DEVIATION FROM, THE FINAL APPROVED DESIGN PLANS DURING CONSTRUCTION MUST BE APPROVED BY THE ASSIGNED PWD-CONSTRUCTION DIVISION ENGINEER AND BY THE PWD-DESIGN BRANCH PROJECT ENGINEER.
- PWD RESERVES THE RIGHT TO REQUEST ADDITIONAL BORINGS DURING CONSTRUCTION SHOULD THE SOIL EXCAVATED IN THAT AREA APPEAR TO BE UNSUITABLE.
- ALL SEWER WORK MUST BE PERFORMED IN TRENCHES. OPEN CUT OR BENCHING WILL NOT BE PERMITTED. OAK TIMBER SHORING MUST BE USED TO SUPPORT ADJACENT STRUCTURES AND UNDERGROUND UTILITIES, AND IN ACCORDANCE WITH OSHA STANDARDS CFR29, PART 1926-650 SUBPART - P EXCAVATIONS. ALTERNATIVE SHORING METHODS MUST BE APPROVED BY PWD-CONSTRUCTION DIVISION ENGINEER.
- ANY TRENCH WHERE THE CUT IS DEEPER THAN 10 FEET WILL REQUIRE A DETAILED SHORING PLAN PREPARED BY A REGISTERED PROFESSIONAL ENGINEER TO BE SUBMITTED TO PWD FOR APPROVAL BEFORE WORK CAN BEGIN.
- PLACE AND COMPACT BACKFILL IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR EXCAVATION, REFILLING, GRADING, LANDSCAPING AND REPAVING.
- MAINTAIN AND PROTECT EXISTING INLETS. SHOULD THE EXISTING INLETS BE IN ANY WAY DAMAGED DURING CONSTRUCTION, THESE SHOULD BE REPAIRED TO THE SATISFACTION OF THE PWD INSPECTOR OR REPLACED PER PWD STANDARDS.
- THE ABANDONED SEWER MANHOLE FRAMES AND COVERS, INLET GRATES, AND TRAPS SHALL BE REMOVED AND DELIVERED INTACT TO THE PWD SEWER MAINTENANCE YARD AT FOX STREET AND ABBOTTSFORD AVENUE.
- ALL ACTIVE DRAINAGE LATERALS TO BE RECONNECTED TO THE NEW SEWER.
- THE ABANDONED INLET LATERAL SHALL BE SEALED AT THE CONNECTION TO THE EXISTING SEWER WITH A DOUBLE RING OF BRICK MASONRY, AND THE INLET VOID BACKFILLED WITH SELECTED EARTH MATERIAL, TAMPED TO GRADE AND PAVED.
- THE THICKNESS OF THE EXISTING SEWER PIPE AND THE CHARACTERISTICS AND EXTENT OF THE PIPE CRADLES ARE UNKNOWN.
- ALL PIPES 15 INCHES AND LARGER IN DIAMETER TO BE ABANDONED MUST BE FILLED WITH CONTROLLED DENSITY FILL (FLOWABLE FILL - CLASS F FLY ASH SLURRY BACKFILL) WITH A COMPRESSIVE STRENGTH OF 75 PSI MAXIMUM, IN ACCORDANCE WITH THE PENNDOT SPECIFICATION PUBLICATION 408, 2001 OR LATEST REVISION FOR FLOWABLE BACKFILL, NON-STRUCTURAL.
- SEAL ENDS OF SEWERS TO BE ABANDONED WITH VITRIFIED PIPE STOPPERS AND OPEN ENDS OF STORM WATER CONDUITS WITH A 9" THICK BRICK BULKHEAD.
- ALL PRIVATE INLETS DIRECTLY CONNECTED TO THE SEWER MUST BE TRAPPED.
- WHEN MAKING CONNECTION TO EXISTING INLET LATERAL, CONTRACTOR IS TO VERIFY CONDITION OF EXISTING LATERAL PRIOR TO MAKING CONNECTION. IF EXISTING LATERAL IS FOUND TO BE IN POOR CONDITION, THE CONTRACTOR MUST CONSTRUCT A NEW 15" LATERAL PIPE TO THE EXISTING SEWER, AS APPROVED BY THE PWD INSPECTOR.
- THE CONTRACTOR MUST PROVIDE AS-BUILT RECORD DRAWINGS PER PHILADELPHIA WATER DEPARTMENT SEWER MAIN INFRASTRUCTURE AS-BUILT SURVEY & DRAFTING MANUAL REQUIREMENTS.

### GREEN STORMWATER INFRASTRUCTURE NOTES:

- THE CONTRACTOR PERFORMING THE GREEN STORMWATER INFRASTRUCTURE INSTALLATION MUST BE PREQUALIFIED BY THE PHILADELPHIA WATER DEPARTMENT (PWD). CONTACT MR. MATTHEW FULMER OF THE PROJECTS MANAGEMENT UNIT AT MATTHEW.FULMER@PHILA.GOV
- THE APPROVED WORK MUST BE DONE IN THE PRESENCE OF A PWD INSPECTOR.
- THE CONTRACTOR PERFORMING THIS WORK IS TO NOTIFY THE PWD CONSTRUCTION DIVISION, 1101 MARKET STREET, 2ND FLOOR, PHONE (215) 685-6345, AT LEAST 7 DAYS IN ADVANCE FOR ASSIGNMENT OF AN INSPECTOR TO THE JOB.
- THE CONTRACTOR MUST PROVIDE OFFICE SPACE FOR USE BY THE PWD INSPECTOR DURING CONSTRUCTION.
- APPROVAL OF THESE PLANS BY THE WATER DEPARTMENT IS STRICTLY LIMITED TO THE DESIGN OF GREEN STORMWATER INFRASTRUCTURE SHOWN WITHIN THE LIMITS OF THE CITY OF PHILADELPHIA PUBLIC RIGHT OF WAY.
- CONTACT PWD-WATER TRANSPORT RECORDS, 1101 MARKET STREET, 2ND FLOOR, WTR@PHILA.GOV, FOR ADDITIONAL APPROVALS AND PERMITS REQUIRED FOR ALL SEWER CONNECTIONS TO EXISTING AND/OR PROPOSED PWD FACILITIES.
- FIELD-FABRICATED WYE BRANCHES AND BENDS ARE NOT PERMITTED.
- A LIST OF ALL MATERIALS AND SUPPLIERS MUST BE SUBMITTED TO THE PWD CONSTRUCTION BRANCH FOR APPROVAL.
- THE CONTRACTOR OR ENGINEER IS RESPONSIBLE FOR OBTAINING ALL ADDITIONAL PERMITS AND APPROVALS FROM ALL AFFECTED CITY AGENCIES AND UTILITIES.
- PRIOR TO OBTAINING A BUILDING PERMIT, THE CONTRACTOR IS REQUIRED TO OBTAIN PWD STORMWATER MANAGEMENT APPROVAL, AND SEWAGE FACILITIES PLANNING (ACT 537) APPROVAL.
- ANY CHANGE TO, OR DEVIATION FROM, THE FINAL APPROVED DESIGN PLANS DURING CONSTRUCTION MUST BE APPROVED BY THE ASSIGNED PWD-CONSTRUCTION DIVISION ENGINEER AND BY THE PWD DESIGN PROJECT ENGINEER.
- PWD RESERVES THE RIGHT TO REQUEST ADDITIONAL BORINGS DURING CONSTRUCTION SHOULD THE SOIL EXCAVATED IN THAT AREA APPEAR TO BE UNSUITABLE.
- ANY TRENCH WHERE THE CUT IS DEEPER THAN 10 FEET WILL REQUIRE A DETAILED SHORING PLAN PREPARED BY A REGISTERED PROFESSIONAL ENGINEER TO BE SUBMITTED TO PWD FOR APPROVAL BEFORE WORK CAN BEGIN.
- PLACE AND COMPACT BACKFILL IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR EXCAVATION, REFILLING, GRADING, LANDSCAPING AND REPAVING.
- ALL SIDEWALK AND CURBING TO BE REPLACED IN KIND ALONG FULL LIMITS OF CONSTRUCTION TO NEXT EXISTING JOINT OR AS DIRECTED BY PWD.
- MAINTAIN AND PROTECT EXISTING INLETS. SHOULD THE EXISTING INLETS BE IN ANY WAY DAMAGED DURING CONSTRUCTION, THESE SHOULD BE REPAIRED TO THE SATISFACTION OF THE PWD INSPECTOR OR REPLACED PER PWD STANDARDS, MANUAL REQUIREMENTS.
- CONTRACTOR MUST COMPLY WITH EROSION AND SEDIMENT CONTROL REQUIREMENTS DURING CONSTRUCTION. SEE PWD REGULATION 501.3 AND 600.4, PHILA CODE S. 13-603, AND 25 PA CODE CHAPTER 102.
- SUFFICIENT EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR AS TO PREVENT STANDING WATER OR SEDIMENTATION OF STORMWATER SYSTEMS. GREEN STORMWATER INFRASTRUCTURE SYSTEMS DETERMINED BY PWD TO BE INADEQUATELY PROTECTED AND THEREBY COMPROMISED WILL BE REPLACED TO THE EXTENT REQUIRED BY PWD (UP TO AND INCLUDING FULL REPLACEMENT) AT NO ADDITIONAL COST TO PWD.
- CONTRACTOR IS REQUIRED TO UNDERTAKE NECESSARY MEASURES TO PREVENT SEDIMENT FROM LEAVING THE WORK SITE, TO PREVENT EROSION CONDITIONS, AND TO SUPPRESS DUST ON THE SITE AND SURROUNDING AREAS. CONTRACTOR MUST COVER AND SURROUND STOCKPILES WITH EROSION CONTROL MEASURES TO ENSURE SEDIMENT DOES NOT MIGRATE INTO THE PUBLIC ROW OR ENTER THE PUBLIC SEWER. F CONTRACTOR IS HAND DIGGING OR EXCAVATING, CONTRACTOR MUST SWEEP WORK SITE AT THE END OF EACH WORK DAY. THE CITY MAY REQUIRE THE CONTRACTOR / OWNER TO CLEAN CITY-OWNED INLETS AND SYSTEMS AFFECTED BY NONCOMPLIANT OR FAILED E&S CONTROLS.
- CONTRACTOR MUST INSTALL INLET PROTECTION MEASURES AT ALL INLETS ADJACENT TO OR WITHIN THE WORK AREA. INLET PROTECTION MEASURES MUST BE INSPECTED DAILY TO ENSURE PROPER PLACEMENT, AND MAINTAINED, POSITIONED OR REPLACED AS NEEDED TO ENSURE PROPER FUNCTION AND TO PREVENT FLOODING. REFER TO PWD GUIDANCE FOR APPROPRIATE MATERIALS AND PROTECTION METHODS FOR OPEN-MOUTH INLETS, HIGHWAY GRATE INLETS, TRENCH DRAINS AND CURB-CUT INLETS.

COLUMBUS BLVD/PACKER AVE/DELAWARE AVE INTERS. IMP.  
ECMS #81304 PENNDOT LOG #P4361-03 CITY LOG # 81304-01



PLOTTED: 9/17/2005 7:08:02 PM

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### PHILADELPHIA WATER DEPARTMENT (PWD) STANDARD NOTES (CONT.)

GREEN STORMWATER INFRASTRUCTURE NOTES (CONTINUED):

- 21. CONTRACTOR MUST OBTAIN PERMISSION FROM THE STREETS DEPARTMENT TO STORE ANY MATERIALS ON THE STREET.
- 22. ORIFICE SHOULD NOT BE DRILLED PRIOR TO AUTHORIZATION BY PWD. PWD WILL REVIEW THE RESULTS OF THE DOUBLE RING INFILTRMETER TESTS CONDUCTED AFTER SMP EXCAVATION AND WILL CONFIRM ORIFICE DIMENSIONS.
- 23. EROSION CONTROL MATTING SHALL BE PLACED OVER ALL SOIL SURFACES NOT STABILIZED BY PLANTING.
- 24. THE CONTRACTOR MUST PROVIDE AS-BUILT RECORD DRAWINGS PER PHILADELPHIA WATER DEPARTMENT GREEN STORMWATER INFRASTRUCTURE AS-BUILT SURVEY & DRAFTING MANUAL REQUIREMENTS.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	0000	CPD	5 OF 29
CITY OF PHILADELPHIA				
REV NO	REVISIONS	DATE	BY	APPD

COLUMBUS BLVD/PACKER AVE/DELAWARE AVE INTERS. IMP.  
 ECMS #81304 PENNDOT LOG #P4361-03 CITY LOG # 81304-01

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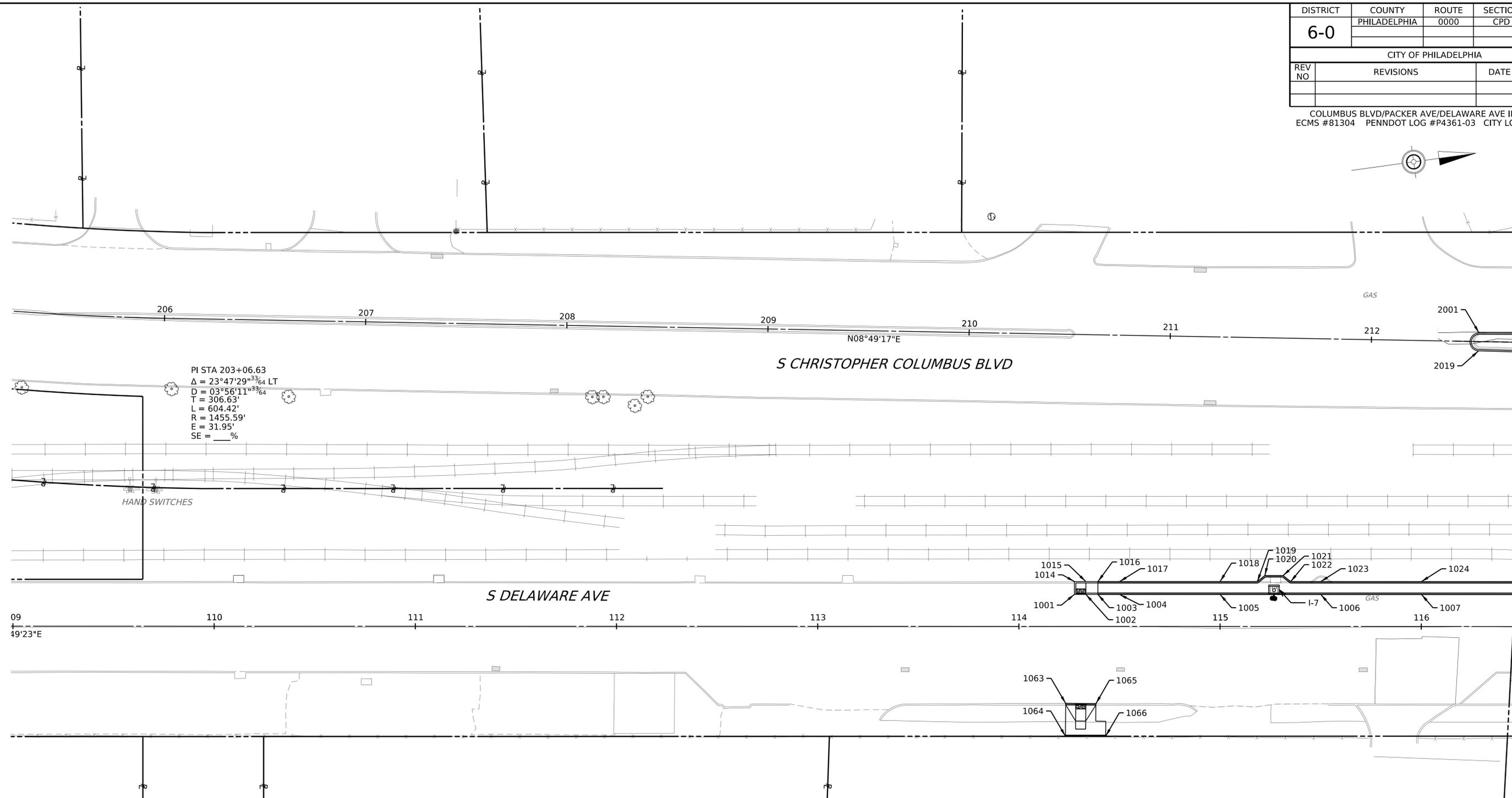






DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	0000	CPD	12 OF 29
CITY OF PHILADELPHIA				
REV NO	REVISIONS	DATE	BY	APPD

COLUMBUS BLVD/PACKER AVE/DELAWARE AVE INTERS. IMP.  
ECMS #81304 PENNDOT LOG #P4361-03 CITY LOG # 81304-01



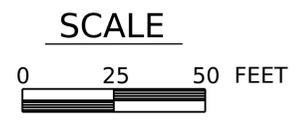
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S DELAWARE AVE

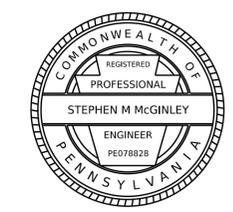
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**LEGEND**

- 1000 SERIES REFER TO SOUTH DELAWARE AVENUE TABLE ON SHEET 16
- 2000 SERIES REFER TO SOUTH CHRISTOPHER COLUMBUS BOULEVARD TABLE ON SHEET 16
- 3000 SERIES REFER TO PACKER AVENUE TABLE ON SHEET 16



SPOT ELEVATION PLAN 1 OF 5

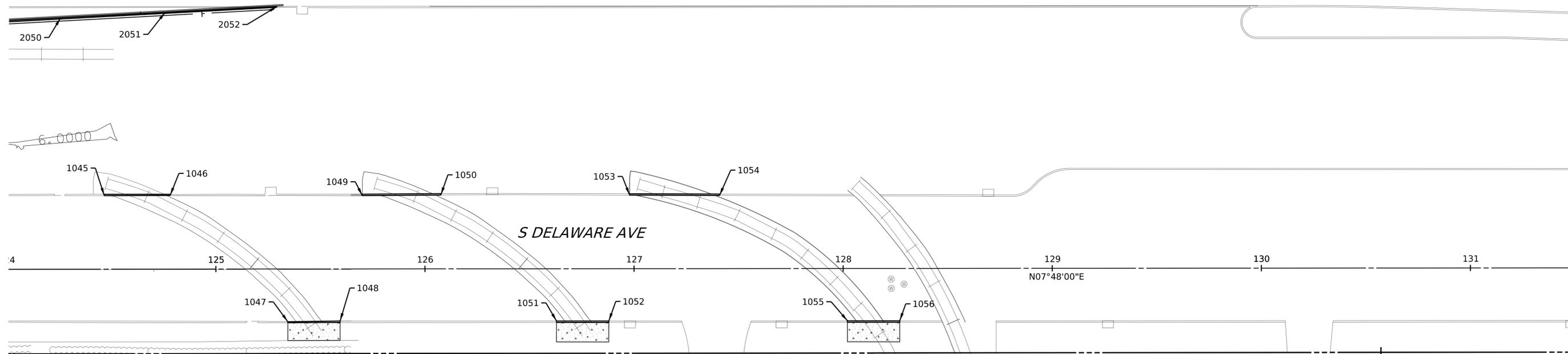
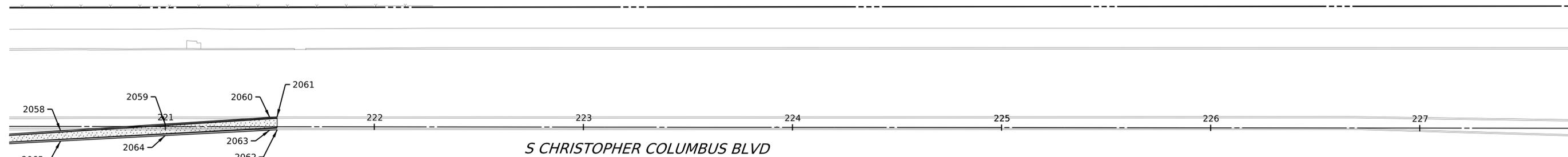
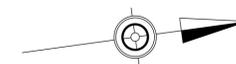


CONTINUED ON SHEET 13



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	0000	CPD	14 OF 29
CITY OF PHILADELPHIA				
REV NO	REVISIONS	DATE	BY	APPD

COLUMBUS BLVD/PACKER AVE/DELAWARE AVE INTERS. IMP.  
ECMS #81304 PENNDOT LOG #P4361-03 CITY LOG # 81304-01



CONTINUED ON SHEET 13

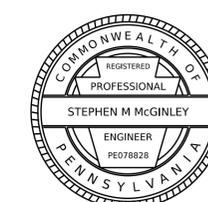
CONTINUED ON SHEET 15

**LEGEND**

- 1000 SERIES REFER TO SOUTH DELAWARE AVENUE TABLE ON SHEET 16
- 2000 SERIES REFER TO SOUTH CHRISTOPHER COLUMBUS BOULEVARD TABLE ON SHEET 16
- 3000 SERIES REFER TO PACKER AVENUE TABLE ON SHEET 16



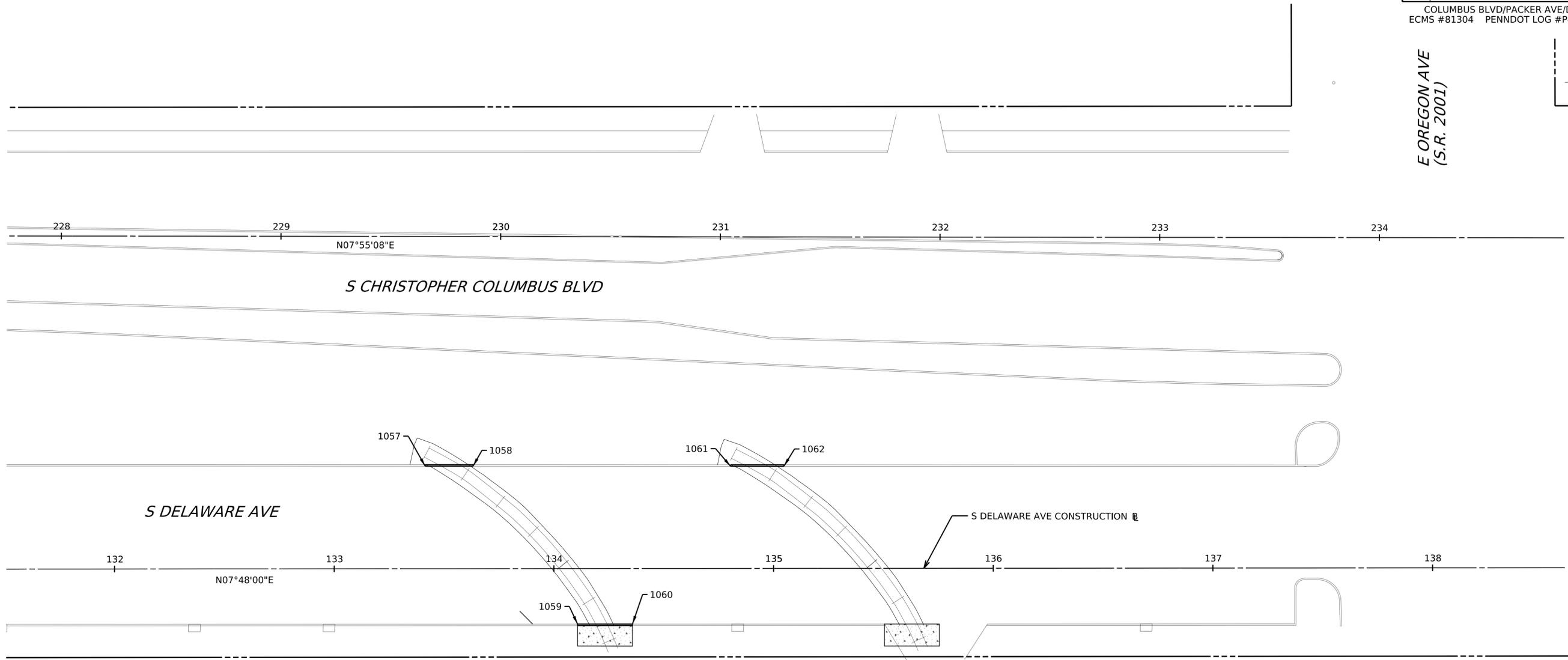
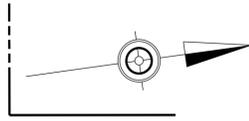
**SPOT ELEVATION PLAN 3 OF 5**



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	0000	CPD	15 OF 29
CITY OF PHILADELPHIA				
REV NO	REVISIONS	DATE	BY	APPD

COLUMBUS BLVD/PACKER AVE/DELAWARE AVE INTERS. IMP.  
ECMS #81304 PENNDOT LOG #P4361-03 CITY LOG # 81304-01

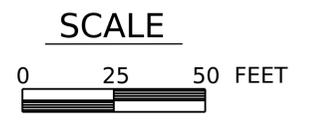
E OREGON AVE  
(S.R. 2001)



CONTINUED ON SHEET 14

**LEGEND**

- 1000 SERIES      REFER TO SOUTH DELAWARE AVENUE TABLE ON SHEET 16
- 2000 SERIES      REFER TO SOUTH CHRISTOPHER COLUMBUS BOULEVARD TABLE ON SHEET 16
- 3000 SERIES      REFER TO PACKER AVENUE TABLE ON SHEET 16



**SPOT ELEVATION PLAN 4 OF 5**



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	0000	CPD	16 OF 29
CITY OF PHILADELPHIA				
REV NO	REVISIONS	DATE	BY	APPD

**SOUTH DELAWARE AVENUE**  
 BASED ON PENNSYLVANIA STATE PLANE - SOUTH ZONE  
 COORDINATE SYSTEM

**SOUTH CHRISTOPHER COLUMBUS BOULEVARD**  
 BASED ON PENNSYLVANIA STATE PLANE - SOUTH ZONE  
 COORDINATE SYSTEM

Point #	STA	OFF	Easting	Northing	BC	TC	CURB HEIGHT
1001	114+27.63	13.91' LT	2700852.5557	219467.7770	7.86	7.86	FLUSH
1002	114+33.29	15.91' LT	2700853.3269	219473.3910	7.93	7.93	FLUSH
1003	114+39.29	15.91' LT	2700854.1435	219479.3351	7.96	8.38	6"
1004	114+50.00	15.90' LT	2700855.6005	219489.9407	7.98	8.48	6"
1005	115+00.00	15.90' LT	2700862.4071	219539.4874	7.83	8.33	6"
1006	115+50.00	15.90' LT	2700869.2228	219589.0998	7.72	8.22	6"
1007	116+00.00	15.90' LT	2700876.0332	219638.6741	7.80	8.30	6"
1008	116+50.00	15.90' LT	2700882.8252	219688.1142	8.52	9.02	6"
1009	117+00.00	15.90' LT	2700889.6346	219737.6815	7.93	8.43	6"
1010	117+50.00	16.13' LT	2700896.2328	219787.3063	7.82	8.32	6"
1011	117+79.60	19.77' LT	2700896.6354	219816.9790	7.94	8.44	6"
1012	117+84.73	20.95' LT	2700896.1541	219822.2347	7.84	8.34	6"
1013	117+92.73	23.16' LT	2700895.0629	219830.4683	7.87	7.87	FLUSH
1014	114+27.63	22.24' LT	2700846.2813	219468.6390	7.84	8.34	6"
1015	114+33.29	22.24' LT	2700847.0507	219474.2532	8.03	8.53	6"
1016	114+39.29	22.24' LT	2700847.8691	219480.1971	8.48	8.98	6"
1017	114+50.00	22.24' LT	2700849.3261	219490.8027	8.56	9.06	6"
1018	115+00.00	22.24' LT	2700856.1282	219540.3069	8.41	8.91	6"
1019	115+18.52	22.24' LT	2700858.6512	219558.6816	8.27	8.77	6"
1020	115.22.27	25.24' LT	2700856.1894	219562.8050	8.32	8.82	6"
1021	115+31.34	25.24' LT	2700857.4245	219571.7955	8.32	8.82	6"
1022	115+35.09	22.24' LT	2700860.9070	219575.1024	8.28	8.78	6"
1023	115+50.00	22.24' LT	2700862.9361	219589.8722	8.30	8.80	6"
1024	116+00.00	22.24' LT	2700869.7410	219639.4070	8.37	8.87	6"
1025	116+50.00	22.24' LT	2700876.5460	219688.9417	9.10	9.60	6"
1026	117+00.00	22.24' LT	2700883.3510	219738.4765	8.49	8.99	6"
1027	117+11.50	22.24' LT	2700884.9159	219749.8677	8.27	8.77	6"
1028	117+15.25	25.24' LT	2700882.4542	219753.9911	8.17	8.67	6"
1029	117+23.86	25.24' LT	2700883.6256	219762.5183	8.24	8.74	6"
1030	117+27.61	22.24' LT	2700887.1081	219765.8251	8.31	8.81	6"
1031	117+50.00	22.24' LT	2700889.9425	219788.0516	8.38	8.88	6"
1032	117+69.20	24.33' LT	2700890.6986	219807.3200	8.46	8.96	6"
1033	117+74.65	25.26' LT	2700890.3313	219816.5055	8.49	8.99	6"
1034	117+83.20	27.10' LT	2700889.8653	219821.5671	8.39	8.89	6"
1035	117+90.88	29.22' LT	2700888.8100	219829.4620	7.92	7.92	FLUSH
1036	117+97.79	32.40' LT	2700886.6007	219836.7412	8.06	8.06	FLUSH
1037	120+88.15	22.34' LT	2700949.5445	220120.4929	8.68	8.68	FLUSH
1038	120+88.14	18.34' LT	2700953.5071	220119.9466	8.33	8.83	6"
1039	121+42.95	18.29' LT	2700960.9936	220174.2437	7.79	8.29	6"
1040	121+42.96	22.29' LT	2700957.0311	220174.7901	8.14	8.64	6"
1041	121+51.64	35.47' LT	2700945.1540	220185.1850	M.E.	M.E.	M.E.
1042	121+83.77	35.54' LT	2700949.4480	220217.0535	M.E.	M.E.	M.E.
1043	122+38.43	24.86' RT	2701016.7065	220262.9834	M.E.	M.E.	M.E.
1044	122+63.43	24.46' RT	2701019.7049	220287.8030	M.E.	M.E.	M.E.
1045	124+46.68	35.07' LT	2700985.5966	220477.4358	M.E.	M.E.	M.E.
1046	124+78.17	35.12' LT	2700989.8191	220508.6456	M.E.	M.E.	M.E.
1047	125+34.41	25.16' RT	2701057.1717	220556.1777	M.E.	M.E.	M.E.
1048	125+59.41	24.84' RT	2701060.2450	220580.9909	M.E.	M.E.	M.E.
1049	125+70.06	34.99' LT	2701002.4179	220599.6682	M.E.	M.E.	M.E.
1050	126+07.61	35.20' LT	2701007.3002	220636.8970	M.E.	M.E.	M.E.
1051	126+62.90	24.93' RT	2701074.3800	220683.5121	M.E.	M.E.	M.E.
1052	126+87.90	24.94' RT	2701077.7826	220708.2795	M.E.	M.E.	M.E.
1053	126+97.93	35.08' LT	2701019.6831	220726.3672	M.E.	M.E.	M.E.
1054	127+40.91	34.91' LT	2701025.6867	220768.9201	M.E.	M.E.	M.E.
1055	128+02.04	24.94' RT	2701093.3174	220821.3551	M.E.	M.E.	M.E.
1056	128+27.04	24.99' RT	2701096.7201	220846.1225	M.E.	M.E.	M.E.
1057	133+41.50	46.58' LT	2701095.6212	221365.4941	M.E.	M.E.	M.E.
1058	133+63.30	46.56' LT	2701098.6046	221387.0881	M.E.	M.E.	M.E.
1059	134+10.81	25.22' RT	2701176.1683	221424.4146	M.E.	M.E.	M.E.
1060	134+35.81	25.23' RT	2701179.5710	221449.1820	M.E.	M.E.	M.E.
1061	134+80.51	46.42' LT	2701114.6450	221503.1898	M.E.	M.E.	M.E.
1062	135+04.78	46.40' LT	2701117.9672	221527.2360	M.E.	M.E.	M.E.
1063	114+23.30	38.20' RT	2700905.5693	219456.1203	8.60	9.10	6"
1064	114+23.17	53.94' RT	2700921.1894	219453.8393	9.87	9.87	FLUSH
1065	114+38.31	38.32' LT	2700907.7326	219470.9634	8.66	9.13	6"
1066	114+43.17	54.12' LT	2700923.9013	219473.6598	9.90	9.90	FLUSH

Point #	STA	OFF	Easting	Northing	BC	TC	CURB HEIGHT
2001	212+53.28	4.25' LT	2700751.4250	219684.6280	8.93	9.43	6"
2002	213+00.00	4.99' LT	2700757.8438	219730.7747	9.01	9.51	6"
2003	213+50.00	5.00' LT	2700764.7214	219780.2200	9.06	9.56	6"
2004	214+00.00	5.00' LT	2700771.6099	219829.7432	8.83	9.33	6"
2005	214+39.79	5.00' LT	2700777.1143	219869.3164	8.65	9.15	6"
2006	214+41.95	5.00' LT	2700777.3898	219871.2974	8.66	8.66	FLUSH
2007	214+49.95	5.00' LT	2700778.4920	219879.2211	8.72	8.72	FLUSH
2008	214+51.96	5.00' LT	2700778.7676	219881.2026	8.74	9.24	6"
2009	214+58.21	5.00' LT	2700779.6295	219887.3987	8.68	9.18	6"
2010	214+59.50	4.83' LT	2700779.9765	219888.6570	8.67	9.17	6"
2011	214+80.85	0.89' RT	2700788.5814	219909.0091	8.45	8.95	6"
2012	214+80.06	6.79' RT	2700794.3143	219907.4158	8.34	8.84	6"
2013	214+51.84	6.68' RT	2700790.3156	219879.4779	8.32	8.82	6"
2014	214+49.84	6.67' RT	2700790.0323	219877.4981	8.31	8.31	FLUSH
2015	214+41.84	6.64' RT	2700788.8988	219869.5786	8.28	8.28	FLUSH
2016	214+39.84	6.63' RT	2700788.6154	219867.5988	8.27	8.77	6"
2017	214+00.00	6.47' RT	2700782.9710	219828.1629	9.00	9.50	6"
2018	213+48.89	6.27' RT	2700775.7288	219777.5637	8.81	9.31	6"
2019	212+53.37	4.62' RT	2700760.1877	219683.2263	8.66	9.16	6"
2020	214+41.78	37.46' LT	2700745.2082	219875.6012	8.28	8.78	M.E.
2021	214+54.78	37.43' LT	2700747.0344	219888.4733	8.27	8.77	M.E.
2022	214+84.66	37.70' LT	2700750.8809	219918.1028	7.95	8.45	M.E.
2023	214+99.49	38.38' LT	2700752.9278	219932.7964	7.69	8.19	M.E.
2024	215+73.86	7.00' RT	2700807.4477	220000.2906	8.72	9.22	6"
2025	216+00.00	7.00' RT	2700811.0561	220026.2324	8.60	9.10	6"
2026	216+50.00	7.00' RT	2700817.9444	220075.7549	8.39	8.89	6"
2027	217+00.00	7.00' RT	2700824.8327	220125.2767	8.00	8.50	6"
2028	217+50.00	7.00' RT	2700831.7211	220174.7999	7.97	8.47	6"
2029	217+93.58	7.00' RT	2700837.7185	220217.9168	7.94	8.44	6"
2030	217+93.58	11.00' RT	2700841.6803	220217.3658	7.84	8.34	6"
2031	217+50.00	11.00' RT	2700835.6695	220174.1519	7.92	8.42	6"
2032	217+00.00	11.00' RT	2700828.7811	220124.6290	8.00	8.50	6"
2033	216+50.00	11.00' RT	2700821.8923	220075.1069	8.35	8.85	6"
2034	216+23.83	11.00' RT	2700818.2939	220049.2331	8.52	9.02	6"
2035	216+00.00	10.53' RT	2700814.5318	220025.6520	8.65	9.15	6"
2036	215+73.83	10.00' RT	2700810.4150	219999.8476	8.63	9.13	6"
2037	215+88.94	37.00' RT	2700839.2395	220011.0961	9.21	9.71	6"
2038	216+00.00	37.00' RT	2700840.7631	220022.0498	8.35	8.85	6"
2039	216+50.00	37.00' RT	2700847.6575	220071.6301	8.07	8.57	6"
2040	216+81.36	37.00' RT	2700851.9719	220102.6330	7.91	8.41	6"
2041	217+00.00	37.00' RT	2700854.5469	220121.1458	7.82	7.82	FLUSH
2042	217+50.00	37.00' RT	2700861.4354	220170.6690	7.75	7.75	FLUSH
2043	217+69.60	37.00' RT	2700864.1282	220190.0287	7.69	8.19	6"
2044	217+95.58	37.00' RT	2700867.7080	220215.7648	7.61	8.11	6"
2045	218+50.00	37.00' RT	2700875.2054	220269.6659	7.46	7.96	6"
2046	219+00.00	37.00' RT	2700882.0938	220319.1891	7.36	7.86	6"
2047	219+50.00	37.00' RT	2700888.9822	220368.7124	7.13	7.63	6"
2048	219+73.77	37.00' RT	2700892.2569	220392.2550	7.08	7.58	6"
2049	220+00.00	35.60' RT	2700894.4805	220418.4289	7.06	7.56	6"
2050	220+50.00	32.92' RT	2700898.7189	220468.3208	6.50	7.00	6"
2051	221+00.00	30.25' RT	2700902.9574	220518.2126	6.68	7.18	6"
2052	221+53.51	27.38' RT	2700907.4932	220571.6052	6.01	6.51	6"
2053	218+68.37	7.00' RT	2700848.0224	220291.9953	7.87	8.37	6"
2054	219+00.00	7.00' RT	2700852.3730	220323.2727	8.39	8.89	6"
2055	219+50.00	7.00' RT	2700859.2614	220372.7959	7.94	8.44	6"
2056	219+73.83	7.00' RT</					







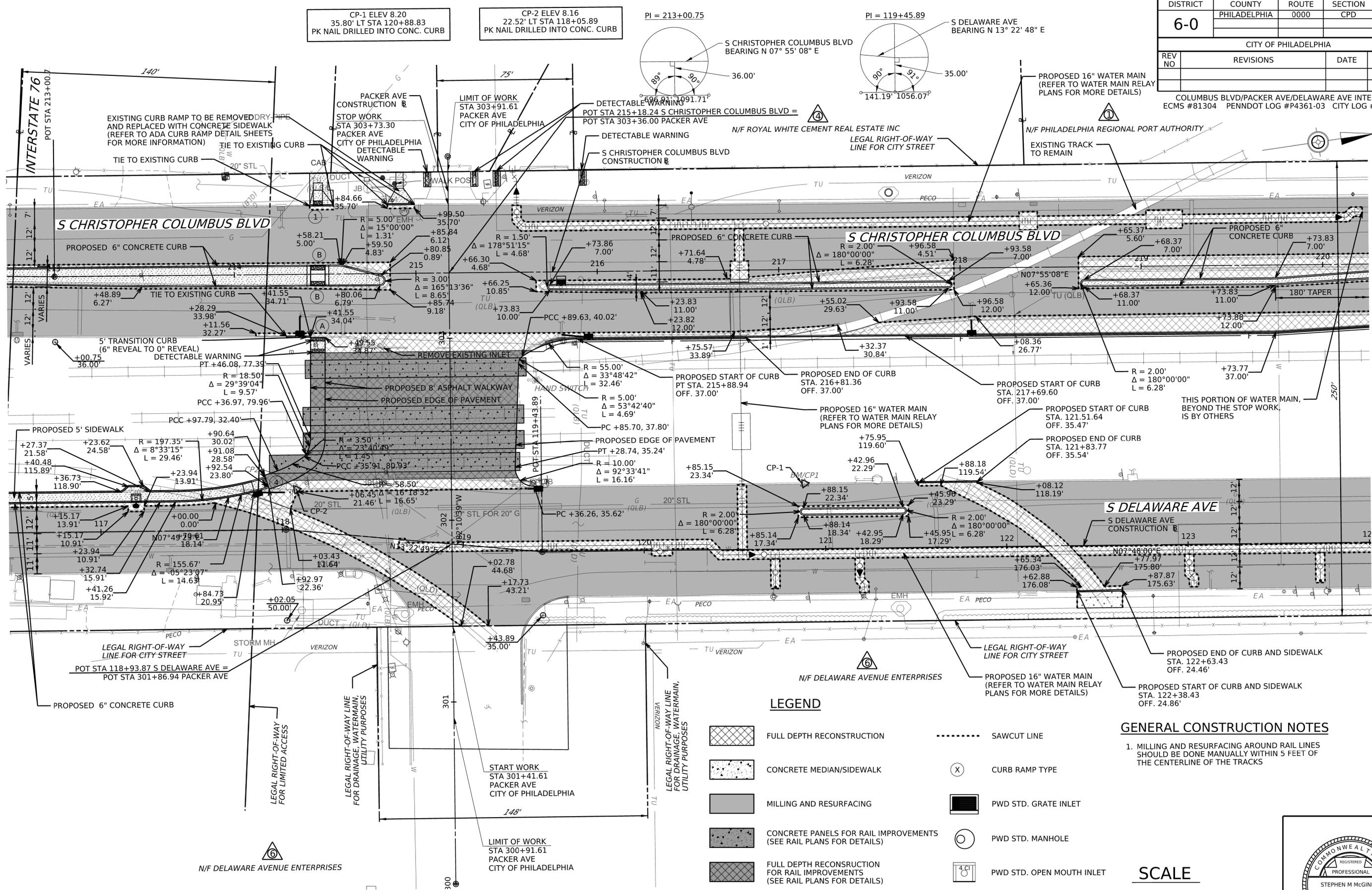




DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	0000	CPD	22 OF 29
CITY OF PHILADELPHIA				
REV NO	REVISIONS	DATE	BY	APPD
COLUMBUS BLVD/PACKER AVE/DELAWARE AVE INTERS. IMP. ECMS #81304 PENNDOT LOG #P4361-03 CITY LOG # 81304-01				

CONTINUED ON SHEET 21

CONTINUED ON SHEET 23

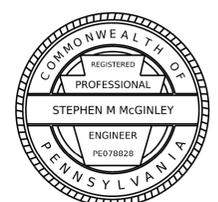


**LEGEND**

- FULL DEPTH RECONSTRUCTION
- SAWCUT LINE
- CONCRETE MEDIAN/SIDEWALK
- CURB RAMP TYPE
- MILLING AND RESURFACING
- PWD STD. GRATE INLET
- CONCRETE PANELS FOR RAIL IMPROVEMENTS (SEE RAIL PLANS FOR DETAILS)
- PWD STD. MANHOLE
- PWD STD. OPEN MOUTH INLET
- FULL DEPTH RECONSTRUCTION FOR RAIL IMPROVEMENTS (SEE RAIL PLANS FOR DETAILS)

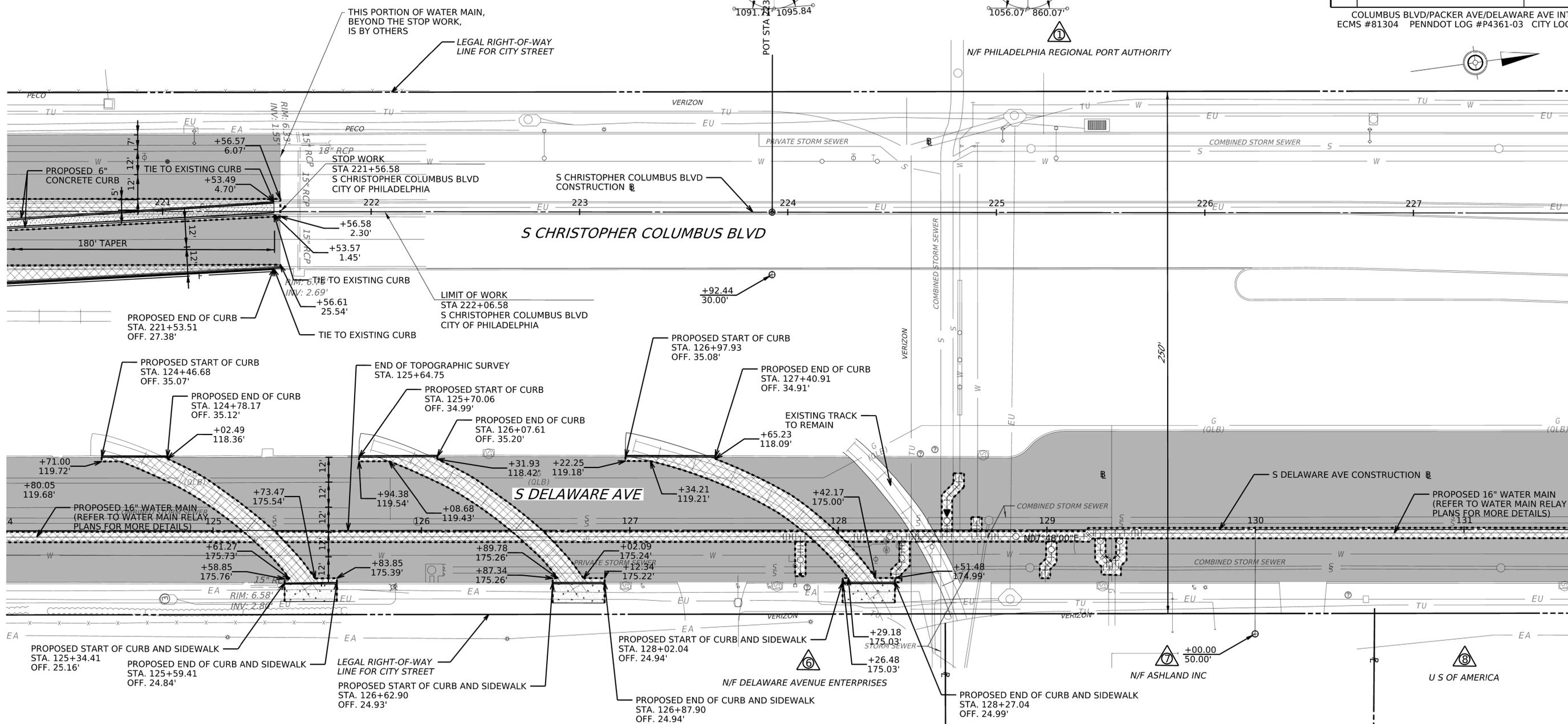
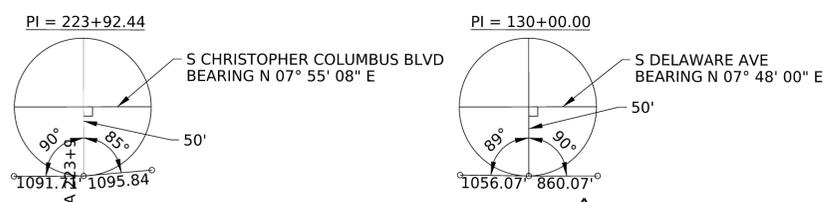
**GENERAL CONSTRUCTION NOTES**

1. MILLING AND RESURFACING AROUND RAIL LINES SHOULD BE DONE MANUALLY WITHIN 5 FEET OF THE CENTERLINE OF THE TRACKS



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	0000	CPD	23 OF 29
CITY OF PHILADELPHIA				
REV NO	REVISIONS	DATE	BY	APPD

COLUMBUS BLVD/PACKER AVE/DELAWARE AVE INTERS. IMP. ECMS #81304 PENNDOT LOG #P4361-03 CITY LOG # 81304-01



CONTINUED ON SHEET 22

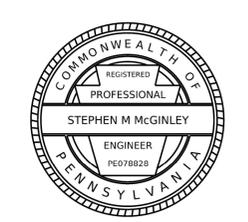
CONTINUED ON SHEET 24

**LEGEND**

- FULL DEPTH RECONSTRUCTION
- CONCRETE MEDIAN/SIDEWALK
- MILLING AND RESURFACING
- CONCRETE PANELS FOR RAIL IMPROVEMENTS (SEE RAIL PLANS FOR DETAILS)
- FULL DEPTH RECONSTRUCTION FOR RAIL IMPROVEMENTS (SEE RAIL PLANS FOR DETAILS)
- SAWCUT LINE
- CURB RAMP TYPE
- PWD STD. GRATE INLET
- PWD STD. MANHOLE
- PWD STD. OPEN MOUTH INLET

**GENERAL CONSTRUCTION NOTES**

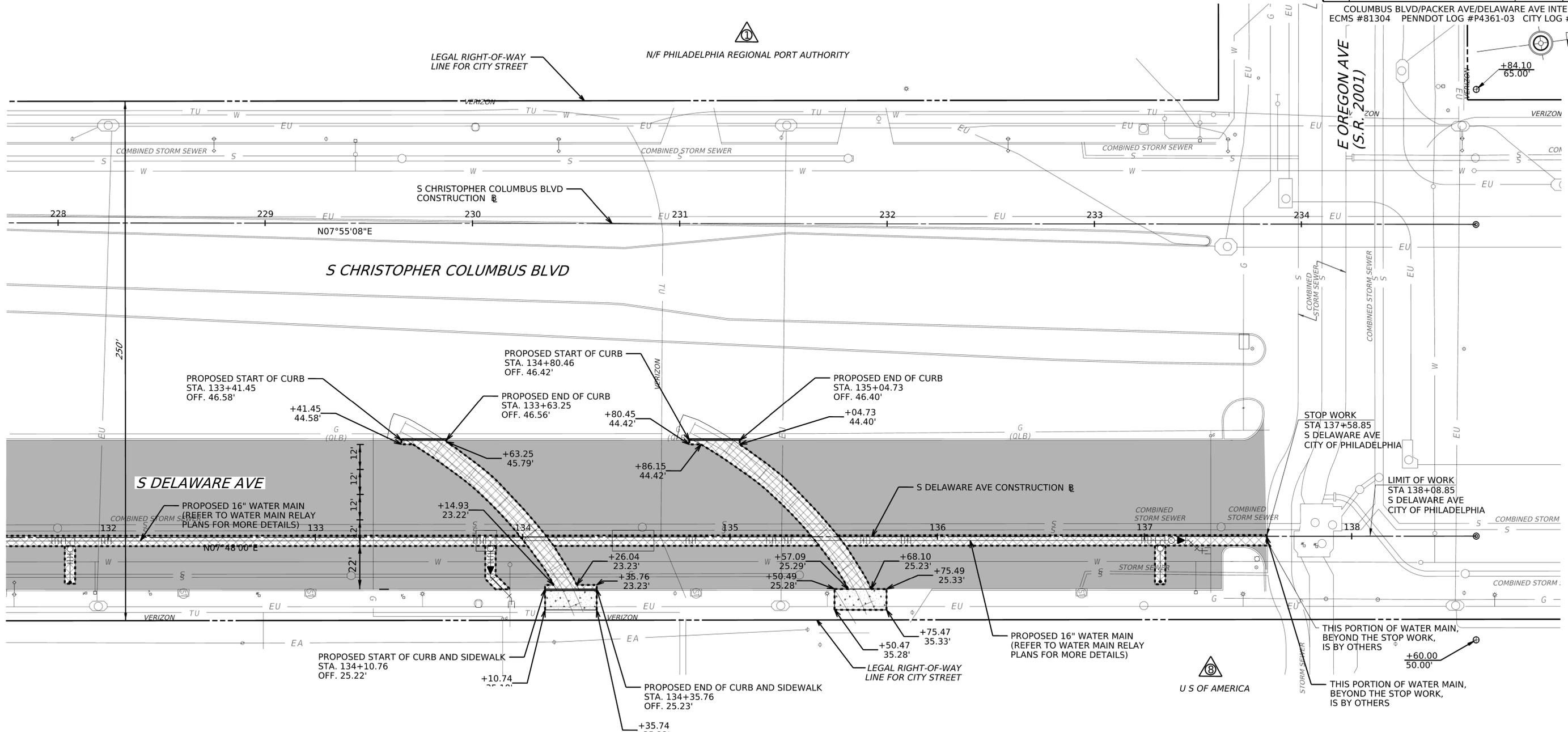
- MILLING AND RESURFACING AROUND RAIL LINES SHOULD BE DONE MANUALLY WITHIN 5 FEET OF THE CENTERLINE OF THE TRACKS



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	0000	CPD	24 OF 29
CITY OF PHILADELPHIA				
REV NO	REVISIONS	DATE	BY	APPD

COLUMBUS BLVD/PACKER AVE/DELAWARE AVE INTERS. IMP. ECMS #81304 PENNDOT LOG #P4361-03 CITY LOG # 81304-01

CONTINUED ON SHEET 23

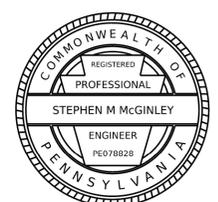
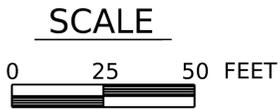


LEGEND

- FULL DEPTH RECONSTRUCTION
- CONCRETE MEDIAN/SIDEWALK
- MILLING AND RESURFACING
- CONCRETE PANELS FOR RAIL IMPROVEMENTS (SEE RAIL PLANS FOR DETAILS)
- FULL DEPTH RECONSTRUCTION FOR RAIL IMPROVEMENTS (SEE RAIL PLANS FOR DETAILS)
- SAWCUT LINE
- CURB RAMP TYPE
- PWD STD. GRATE INLET
- PWD STD. MANHOLE
- PWD STD. OPEN MOUTH INLET

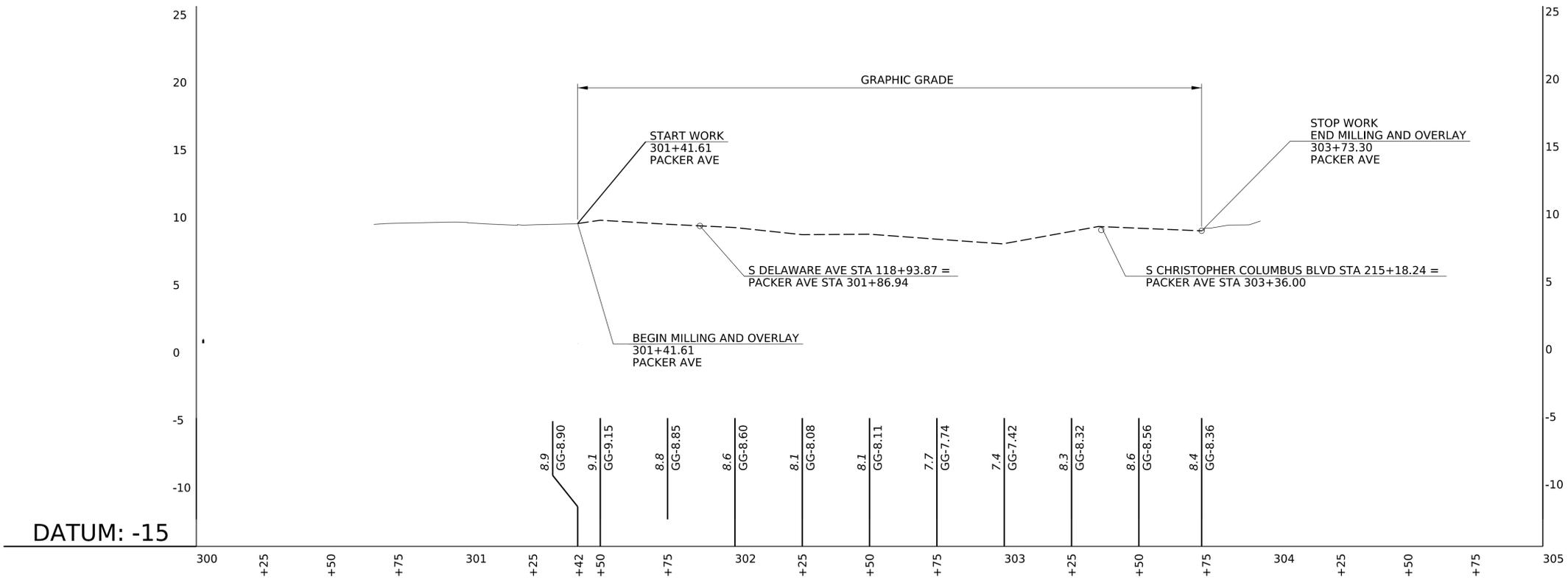
GENERAL CONSTRUCTION NOTES

- MILLING AND RESURFACING AROUND RAIL LINES SHOULD BE DONE MANUALLY WITHIN 5 FEET OF THE CENTERLINE OF THE TRACKS



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	0000	CPD	25 OF 29
	CITY OF PHILADELPHIA			
REV NO	REVISIONS	DATE	BY	APPD

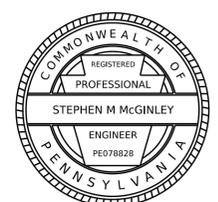
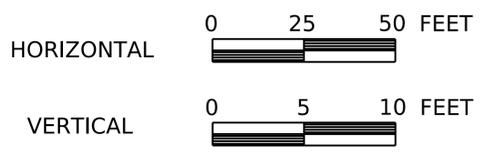
COLUMBUS BLVD/PACKER AVE/DELAWARE AVE INTERS. IMP.  
 ECMS #81304 PENNDOT LOG #P4361-03 CITY LOG # 81304-01



DATUM: -15

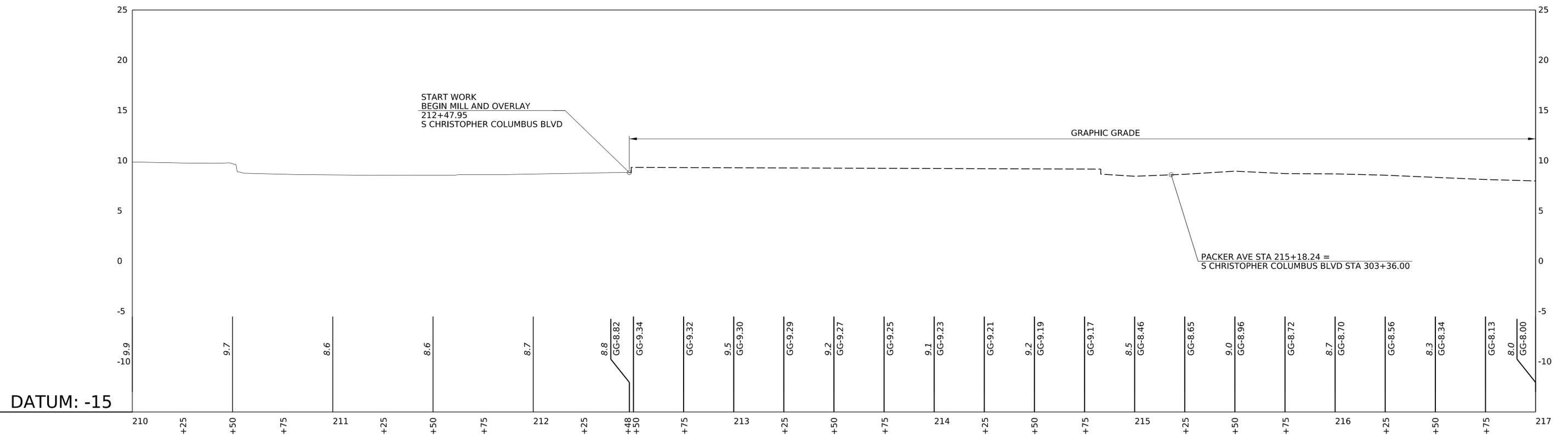
**PACKER AVE PROFILE**

**SCALE**



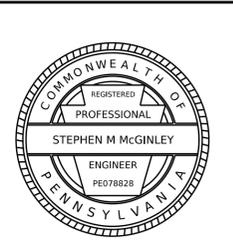
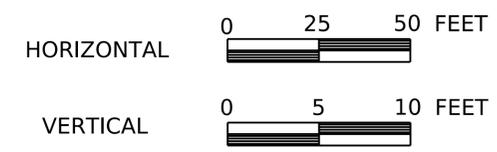
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	0000	CPD	26 OF 29
	CITY OF PHILADELPHIA			
REV NO	REVISIONS	DATE	BY	APPD

COLUMBUS BLVD/PACKER AVE/DELAWARE AVE INTERS. IMP.  
 ECMS #81304 PENNDOT LOG #P4361-03 CITY LOG # 81304-01



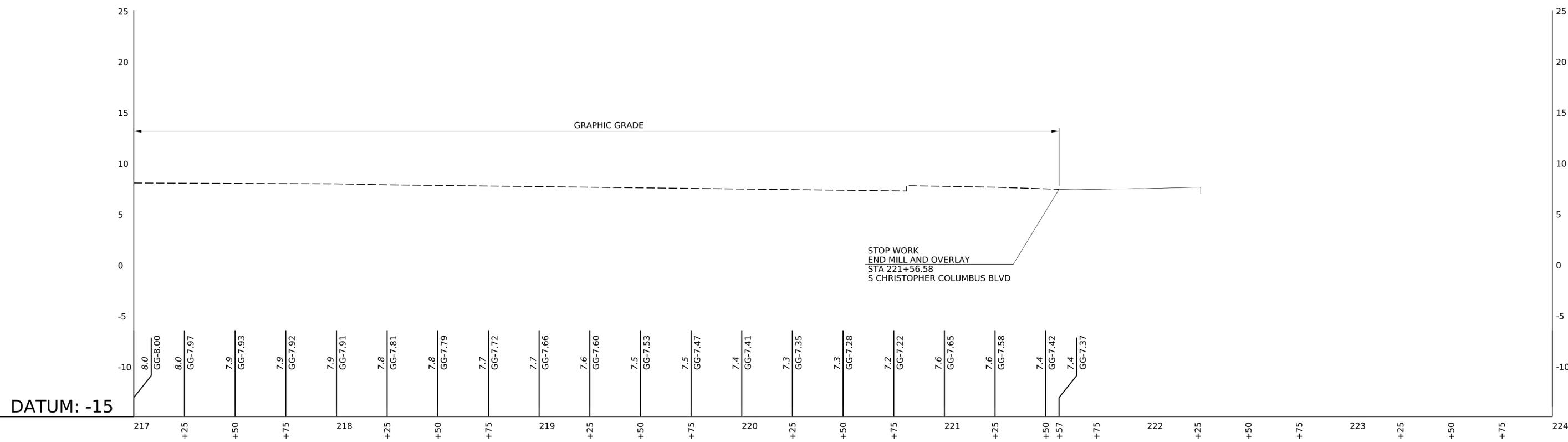
**S CHRISTOPHER COLUMBUS BLVD PROFILE**

**SCALE**



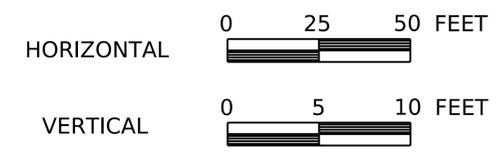
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	0000	CPD	27 OF 29
CITY OF PHILADELPHIA				
REV NO	REVISIONS	DATE	BY	APPD

COLUMBUS BLVD/PACKER AVE/DELAWARE AVE INTERS. IMP.  
 ECMS #81304 PENNDOT LOG #P4361-03 CITY LOG # 81304-01



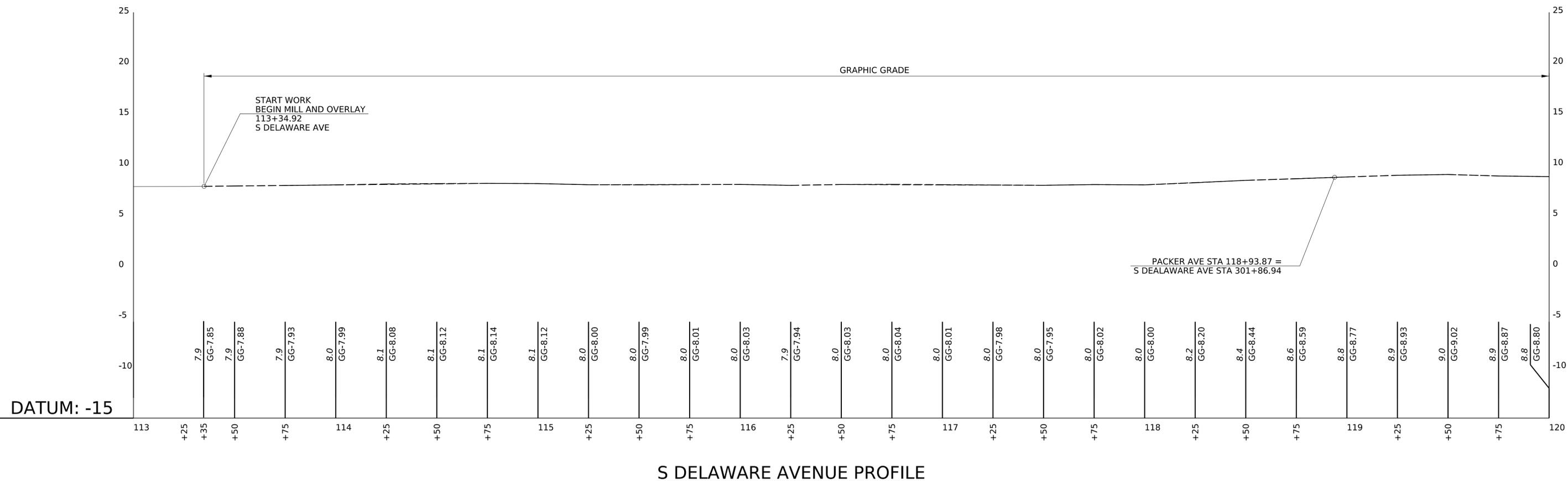
**S CHRISTOPHER COLUMBUS BLVD PROFILE**

**SCALE**

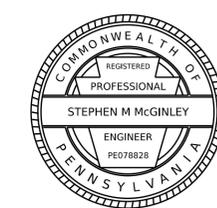


DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	0000	CPD	28 OF 29
	CITY OF PHILADELPHIA			
REV NO	REVISIONS	DATE	BY	APPD

COLUMBUS BLVD/PACKER AVE/DELAWARE AVE INTERS. IMP.  
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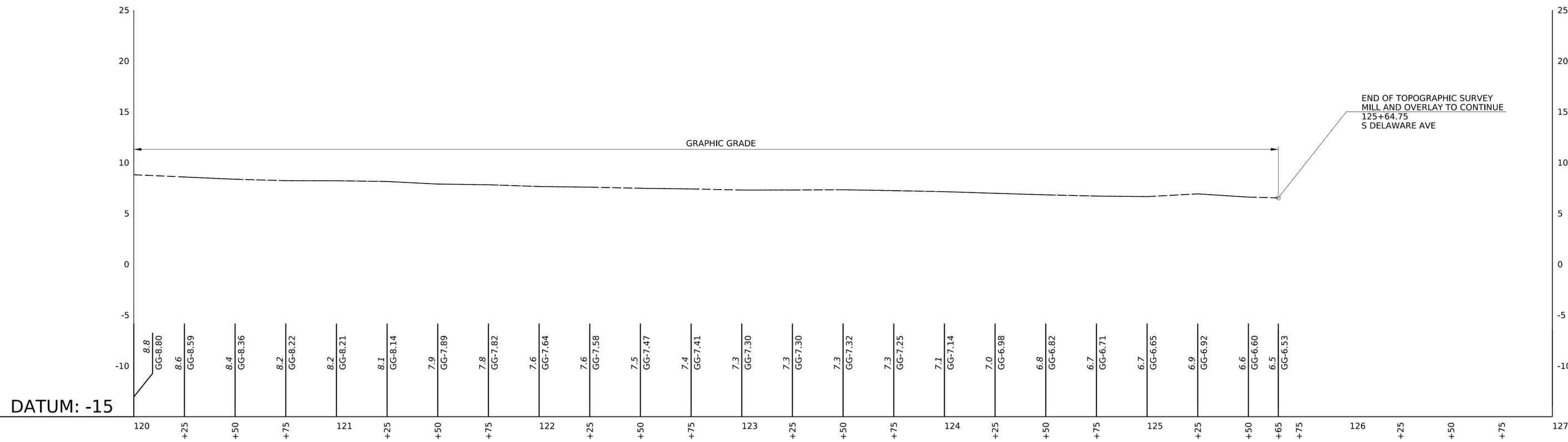


SCALE



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	0000	CPD	29 OF 29
CITY OF PHILADELPHIA				
REV NO	REVISIONS	DATE	BY	APPD

COLUMBUS BLVD/PACKER AVE/DELAWARE AVE INTERS. IMP.  
 ECMS #81304 PENNDOT LOG #P4361-03 CITY LOG # 81304-01



**S DELAWARE AVENUE PROFILE**

**SCALE**

