

PLAN PREPARATION
 DESIGNER: BOLES, SMYTH ASSOCIATES INC.

DISTRICT	COUNTY	TOWNSHIP	ROUTE	SECTION	TOTAL SHEETS
6-0	MONTGOMERY	UPPER DUBLIN	0000	DIL	15

ECMS No. -----

UPPER DUBLIN TOWNSHIP

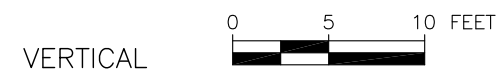
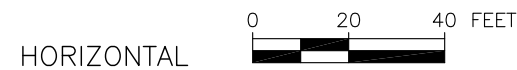


DRAWINGS FOR CONSTRUCTION ROAD RESURFACING PROJECT OF DILLON ROAD SECTION DIL IN MONTGOMERY COUNTY

FROM STA. 10+00 TO STA. 40+00 LENGTH 3000 FT 0.568 MI (PHASE 1)

FROM STA. 40+00 TO STA. 50+50 LENGTH 1050 FT 0.199 MI (PHASE 2)

SCALE



DESIGN DESIGNATION

HIGHWAY CLASSIFICATION - MINOR ARTERIAL
 DESIGN SPEED - 35 MI/H
 PAVEMENT WIDTH - 34 - 45 FT
 SHOULDER WIDTH - CURBED
 MEDIAN WIDTH - N/A

TRAFFIC DATA

CURRENT A.D.T. - ---- (2021)
 DESIGN YEAR A.D.T. - ---- (2022)
 DHV - 865 (PM)
 D - 55%
 T - 3%

SERIAL NUMBER: 20220953329
 CALL DATE: 04/05/2022
 CALL TYPE: DESIGN



CALL 1-800-242-1776

PENNSYLVANIA LAW REQUIRES
 3 WORKING DAYS NOTICE FOR
 CONSTRUCTION PHASE AND 10 WORKING
 DAYS IN DESIGN STAGE - STOP CALL

UNDERGROUND UTILITIES ARE PLOTTED FROM AVAILABLE RECORD PLANS AND ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE. IN ACCORDANCE WITH PENNSYLVANIA ACT 187(1996) OBTAIN ACCURATE FIELD LOCATION OF UTILITY LINES FROM THE UTILITY COMPANIES PRIOR TO ANY EXCAVATION.

PREPARED BY:
 BOLES, SMYTH ASSOCIATES INC.
 2400 CHESTNUT STREET
 PHILADELPHIA, PA 19103
 (215) 561-2644

DATE: ____ - ____ - ____

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	MONTGOMERY	0000	DIL	2 OF 15
UPPER DUBLIN TOWNSHIP				
REVISION NUMBER	REVISIONS			BY DATE

RECORD OF EXISTING TYPES OF ROADWAY PAVEMENTS			
LOCAL ROUTE	FROM STA.	TO STA.	EXISTING PAVEMENT TYPE
DILLON RD.	10+38.00	50+00.00	1 1/2" SUPERPAVE WC (9.5MM), 2 1/2" SUPERPAVE BINDER (19.0MM), 6" SUPERPAVE BC (25.0MM), 6" SUBBASE

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

EARTHWORK SUMMARY ENTIRE PROJECT

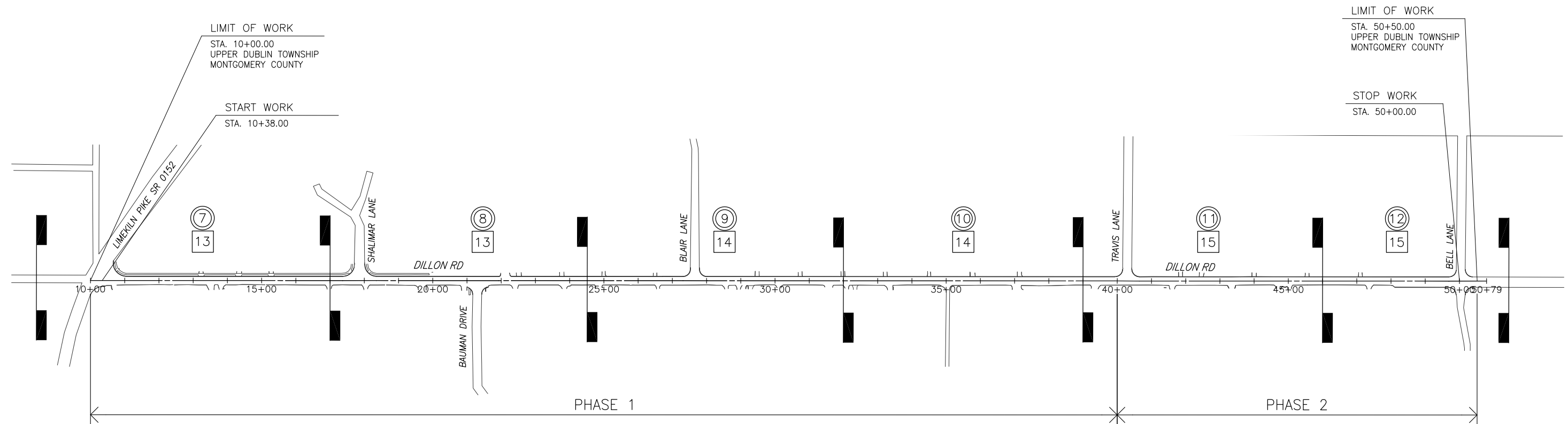
THE INFORMATION ON ESTIMATED AMOUNTS OF EARTHWORK HAS BEEN USED IN THE PRELIMINARY ESTIMATE. DO NOT USE AS A WAIVER OF ANY PROVISIONS OF THE SPECIFICATIONS AND CONTRACTS. (QUANTITIES SHOWN ARE APPROXIMATE)

DILLON ROAD	CUBIC YARDS OF EXCAVATION				CUBIC YARDS OF FOREIGN BORROW	CUBIC YARDS OF EMBANKMENT*	CUBIC YARDS OF WASTE
	CLASS 1	CLASS 1B	CLASS 2	CLASS 3			
	-	220	-	-	-	-	220

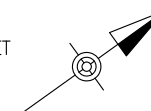
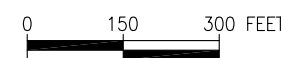
*INCLUDES ALL BORROW ITEMS TOTAL NET WASTE = 220 CY

SHEET INDEX

DESCRIPTION	SHEET
TITLE SHEET	1
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TYPICAL SECTIONS	6
ROADWAY PLAN SHEETS	7-12
ROADWAY PROFILE SHEETS	13-15



INDEX MAP



LEGEND



PLAN SHEET

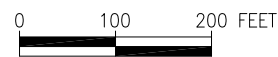
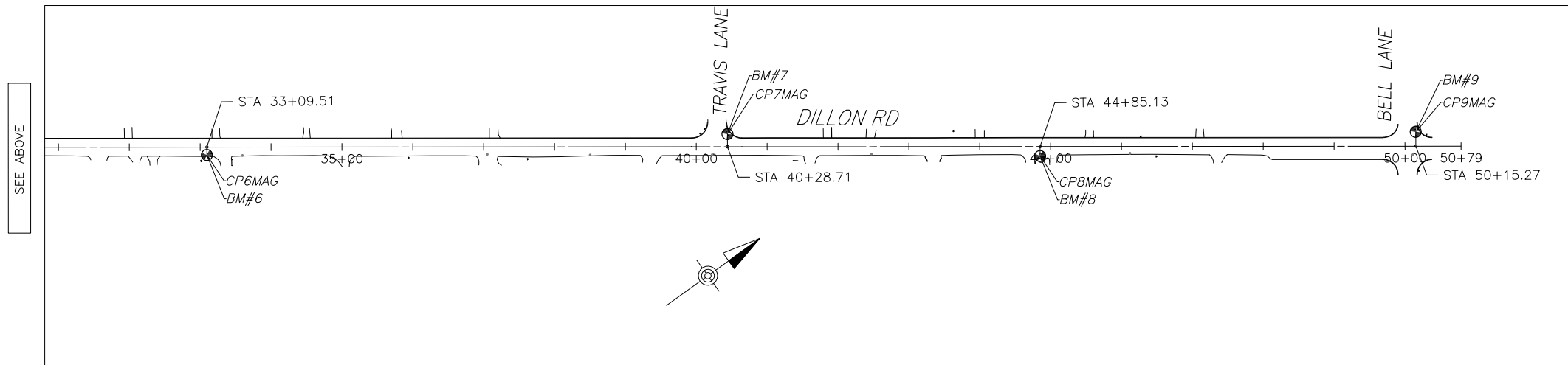
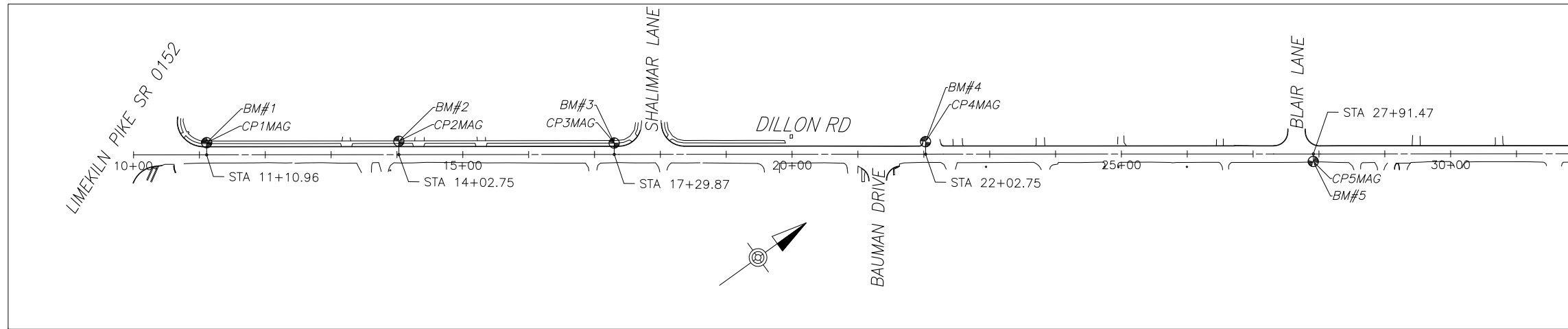


PROFILE SHEET

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	MONTGOMERY	0000	DIL	3 OF 12
UPPER DUBLIN TOWNSHIP				
REVISION NUMBER	REVISIONS			BY DATE

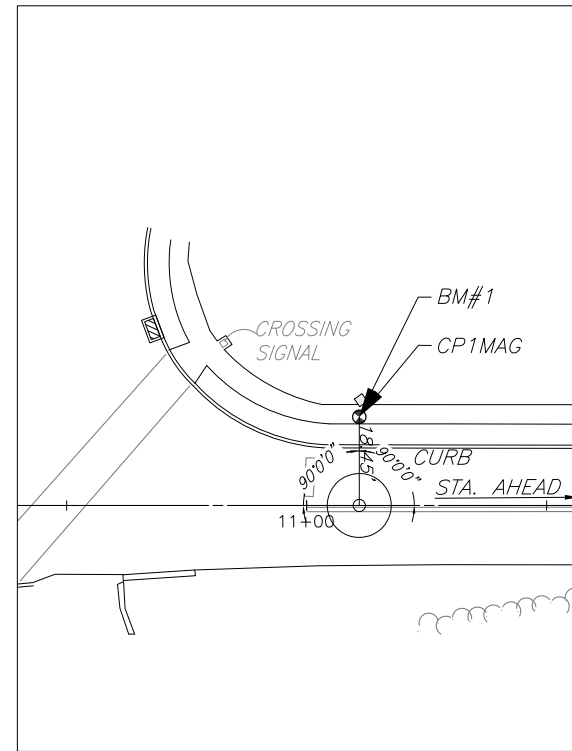
LIST OF PROJECT BENCHMARKS			
BASED ON PENNSYLVANIA STATE PLANE COORDINATE SYSTEM			
BENCHMARK	ELEVATION	COORDINATES	
		NORTH	EAST
BM #1	100.00	31155.2091	2688690.7234
BM #2	120.46	311393.3662	2688659.3022
BM #3	124.98	311657.3186	2687052.5581
BM #4	134.59	312042.2479	2687327.0513
BM #5	132.58	312502.7218	2687695.2574
BM #6	137.18	312923.5968	2687997.2513
BM #7	159.97	313537.2992	2688402.0121
BM #8	161.36	313877.1546	2688684.9613
BM #9	169.98	314327.7633	2688966.6406

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



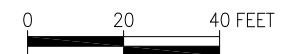
CONTROL POINTS SKETCH

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	MONTGOMERY	0000	DIL	4 OF 12	
UPPER DUBLIN TOWNSHIP					
REVISION NUMBER	REVISIONS			BY	DATE




CONSTR. \square
P.O.T STA. 11+10.96

CONTROL POINTS SKETCH



UTILITIES LISTING

AT&T LOCAL SERVICES (AT&TL) C/O TREC GROUP INC. 900 OLD MARPLE ROAD SPRINGFIELD, PA 19064 ATTN: JAY EVERLY EMAIL: jay@trecgroup.com PHONE: 610-328-6465 CELL: 215-279-4199 — ATT-U — — ATT-OH —	NORTH WALES WATER AUTHORITY (NWWA) 200 WEST WALNUT STREET P O BOX 1339 NORTH WALES, PA 19454-0339 ATTN: JOE MURPHY EMAIL: jmurphy@nwwater.com PHONE: 215-651-7756 — W —	UPPER DUBLIN TOWNSHIP (UpDuT) 801 LOCH ALSH AVENUE FORT WASHINGTON, PA 19034-1697 ATTN: TOM FOUNTAIN EMAIL: TFOUNTAIN@UPPERDUBLIN.NET PHONE: 215-643-1600 — — — — —
BUCKS CO WATER & SEWER AUTHORITY (BCWS) 1275 ALMSHOUSE ROAD WARRINGTON, PA 18976 ATTN: STEVE HARTMAN EMAIL: shartman@carrollengineering.com PHONE: 215-343-5700 EXT 269 — SS —	PECO ENERGY COMPANY ELECTRIC (PEC-B) 1050 W SWEDSFORD ROAD BERWYN, PA 19312 ATTN: BEN DUREY PHONE: 215-956-3073 EMAIL: Benjamin.Durey@exeloncorp.com — E — — EU —	VERIZON PENNSYLVANIA LLC (VP) 1050 VIRGINIA DRIVE, FLOOR 3.5 FORT WASHINGTON PA, 19034 ATTN: CHRIS ATKINSON EMAIL: chri.j.atkinson@verizon.com PHONE: 215-478-5218 — VZ-U — — VZ —
COMCAST CABLE COMMUNICATIONS (CCCM) 341 EAST LANCASTER AVENUE DOWNTOWN, PA 19335 ATTN: DARREN MARSTELLER EMAIL: dmarsteller@americomm-llc.com PHONE: 717-405-4280 — CC-U — — CC-OH —	PECO ENERGY COMPANY (GAS) 300 FRONT STREET CONSHOHOCKEN, PA 19428 ATTN: MIKE GABRIEL EMAIL: mike.gabriel@peco-energy.com PHONE: 610-832-6534 — G —	 THREE WORKING DAYS BEFORE YOU DIG-DRILL-BLAST SYSTEM, INC. CALL 1-800-242-1776 SERIAL NUMBER: 20220953329 CALL DATE: 04/05/2022 CALL TYPE: DESIGN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	MONTGOMERY	0000	DIL	5 OF 15
UPPER DUBLIN TOWNSHIP				
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GENERAL NOTES

ALL PROPERTIES ARE PLOTTED FROM DEEDS OF RECORD, RECORDED SUBDIVISION OR LOT PLANS, OR FROM FIELD SURVEY. PROPERTY LINES WERE SURVEYED ONLY WHEN DETERMINED NECESSARY BY THE PROFESSIONAL LAND SURVEYOR RESPONSIBLE FOR THE PROJECT. PROPERTY LINES NOT ESTABLISHED BY FIELD SURVEY WERE PLOTTED BASED ON EXISTING TOPOGRAPHICAL FEATURES AND LIMITED FIELD DATA.

FLOODPLAIN TAKEN FROM FLOOD INSURANCE RATE MAP, MONTGOMERY COUNTY, PA, PANEL 291 OF 451, MAP NUMBER 42091C0291G, EFFECTIVE DATE MARCH 2, 2016.
 TOWNSHIP ZONING: A - RESIDENTIAL

NO WATERWAYS WITHIN THIS PROJECT ARE CLASSIFIED AS NAVIGABLE STREAMS.

UNDERGROUND UTILITIES ARE SHOWN FROM PLANS SUPPLIED BY INDIVIDUAL COMPANIES THROUGH PA ONE CALL RESPONSE AND FROM REVISIONS BY PARTICIPATING COMPANIES MARKED ON UTILITY VERIFICATION PLANS PREPARED BY BOLES, SMYTH ASSOCIATES (DATED SEPTEMBER 7, 2018) AND FROM OBSERVABLE ABOVE GROUND EVIDENCE. THE ACCURACY AND PRESENCE OF LOCATIONS OF EXISTING SUBSURFACE UTILITY STRUCTURES SHOWN HEREON, ARE NOT GUARANTEED. ANYONE USING THESE PLANS MUST VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES.

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

SIDEWALK EASEMENT. AN EASEMENT FOR THE CONSTRUCTION, INSPECTION, MAINTENANCE, REPAIR, RECONSTRUCTION AND ALTERATION OF A SIDEWALK. THE EASEMENT SHALL NOT PREVENT THE PROPERTY OWNER FROM MAKING ANY LEGAL USE OF THE AREA WHICH IS NOT DETRIMENTAL TO ITS USE FOR SIDEWALK PURPOSES.

HORIZONTAL CONTROL IS BASED ON NAD 83 (1992), BASED ON PENNSYLVANIA STATE PLANE COORDINATE SYSTEM (SOUTH ZONE).

VERTICAL CONTROL IS BASED ON NAVD 1988.

AVERAGE COMBINED SCALE FACTOR IS 1.000.

BASE PLANS OBTAINED FROM FIELD SURVEY OBTAINED IN APRIL 25, 2022 BY TEI, INC.

TABULATION OF OVERALL LENGTH AND AUTHORIZATION LENGTH

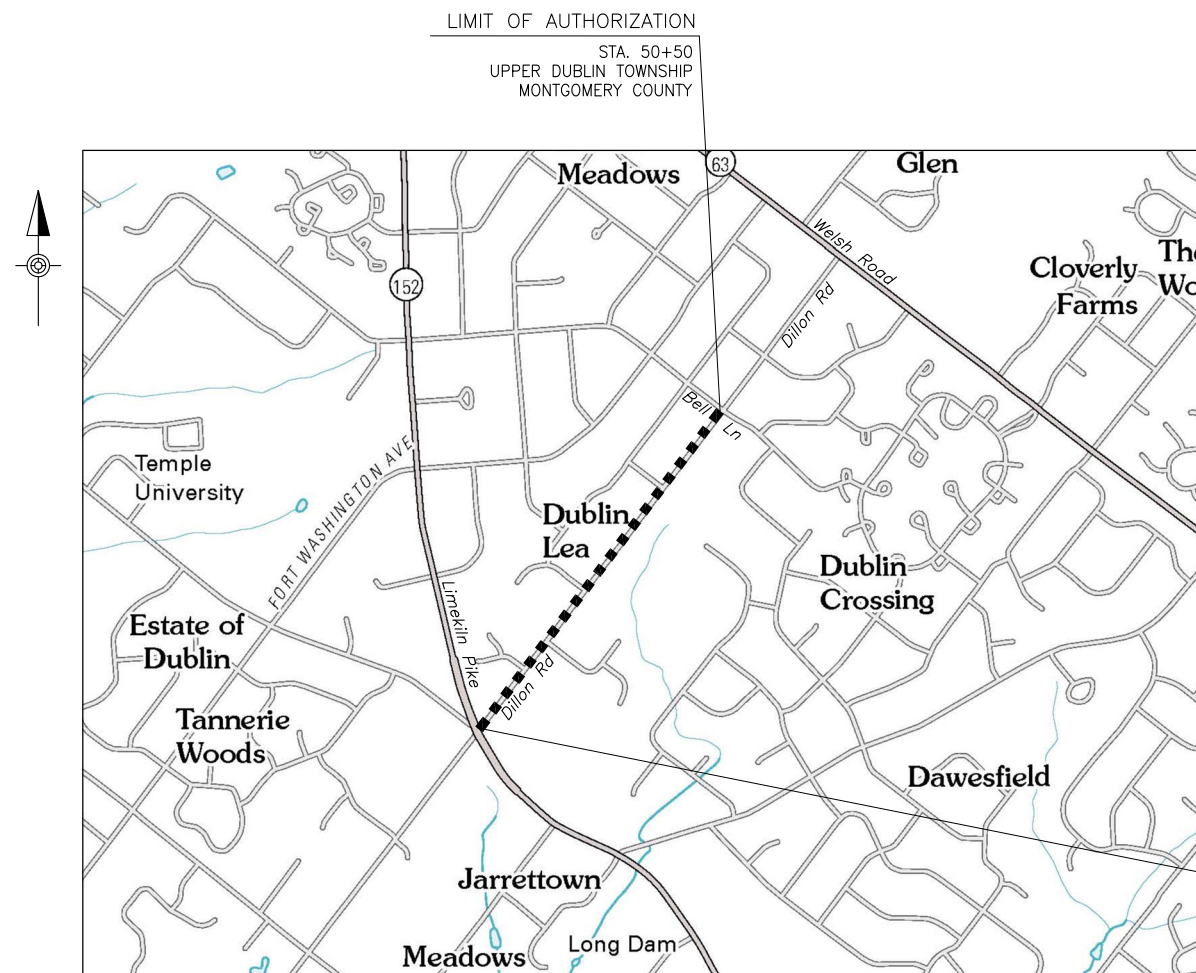
STATION TO STATION	LENGTH (ft)	LENGTH (mi)
OVERALL LENGTH & AUTHORIZATION LENGTH		
10+38.00 TO 50+00.00	3962.00	0.750

LIST OF EQUALITIES

NONE

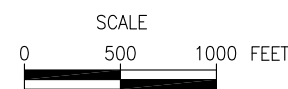
LIST OF SEGMENT EQUALITIES

NONE

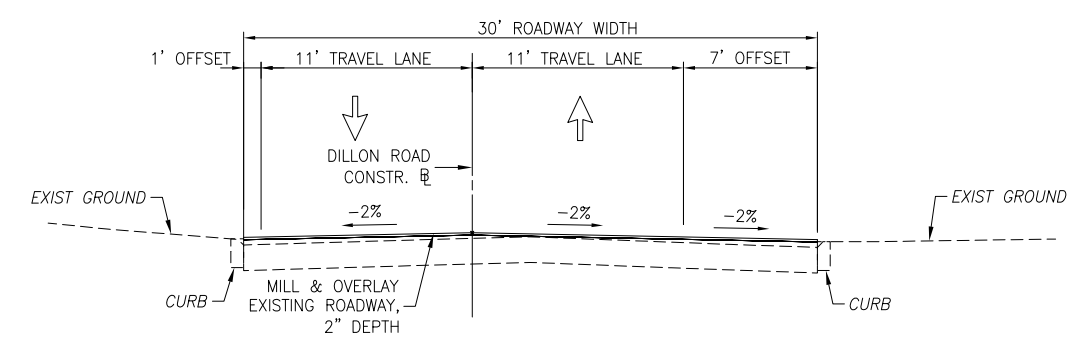


LOCATION MAP

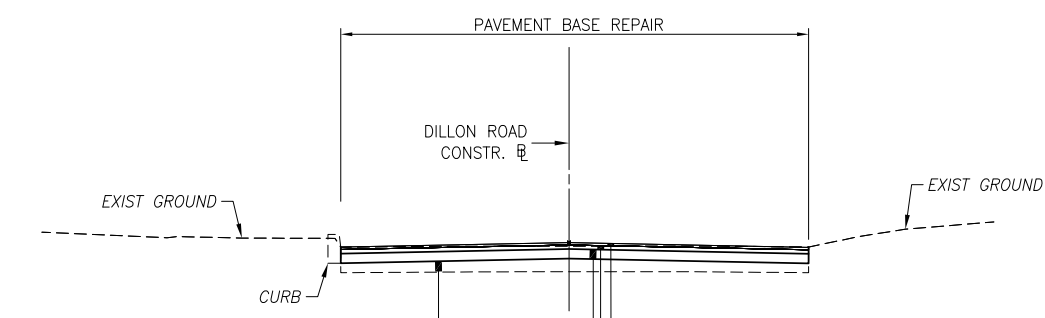
PROJECT	—————	STATE HIGHWAY	—————
TOWNSHIP LINE	- - - - -	TOWNSHIP ROAD	=====
CREEK	~~~~~	INTERSTATE ROUTE	—————
RAILROAD	—————	US ROUTE	—————
NO DETOUR	—————	PA ROUTE	—————



DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	MONTGOMERY	0000	DIL	6 OF 15	
UPPER DUBLIN TOWNSHIP					
REVISION NUMBER	REVISIONS			BY	DATE



TYPICAL SECTION
STA. 48+12 TO STA. 49+75



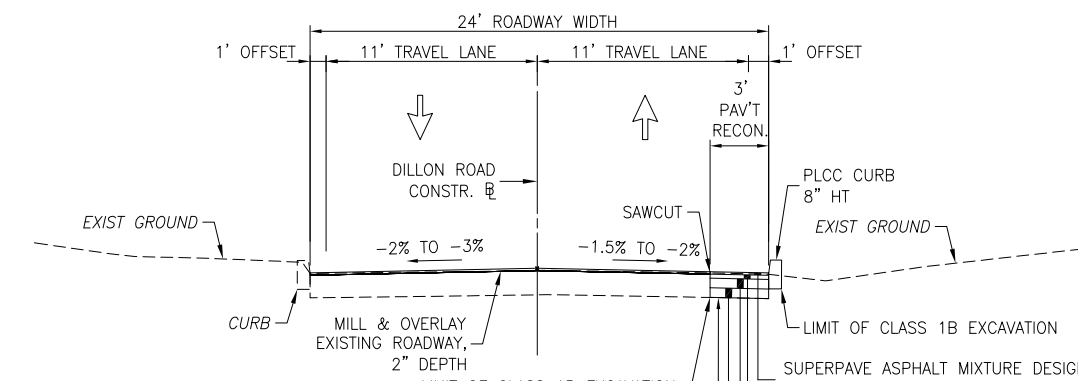
REMOVE AND REPLACE GEOTEXTILE, CLASS 4, TYPE A AND SUBBASE, 6" DEPTH (NO. 2A) AS DIRECTED BY THE INSPECTOR IN CHARGE (IIC)

SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, 3 TO < 10 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-H, 3D PAVING CONTROL (SEPARATE PAY ITEM)

SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, 3 TO < 10 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH

SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 3 TO < 10 MILLION ESALS, 25.0 MM MIX, 6" DEPTH

ITEM 9000-0015
PAVEMENT BASE REPAIR



TYPICAL SECTION
STA. 11+00 TO STA. 13+20
STA. 18+65 TO STA. 20+75
STA. 24+98 TO STA. 27+50
STA. 28+25 TO STA. 30+85
STA. 31+40 TO STA. 32+50

SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, 3 TO < 10 MILLION ESALS, 9.5MM MIX, 1 1/2" DEPTH, SRL-H

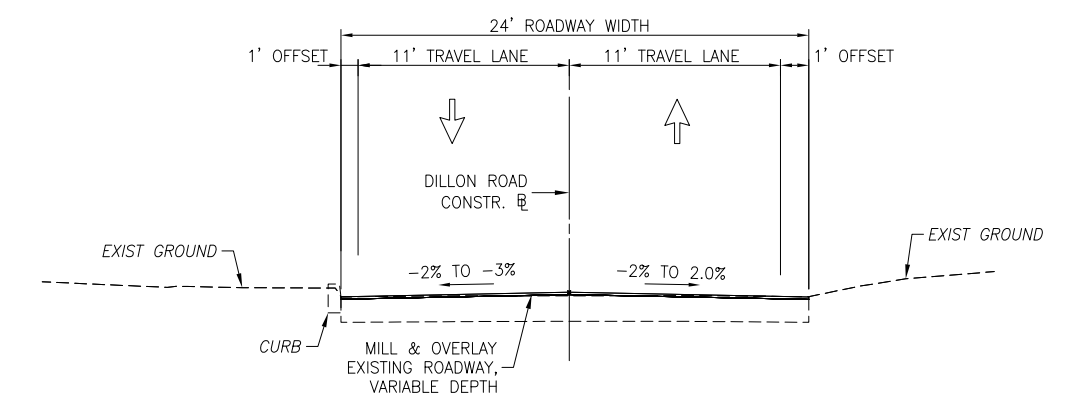
SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, 3 TO < 10 MILLION ESALS, 19.0MM MIX, 2 1/2" DEPTH

SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 3 TO < 10 MILLION ESALS, 25.0MM MIX, 6" DEPTH

SUBBASE, 6" DEPTH (NO. 2A)

GEOTEXTILE, CLASS 4, TYPE A

NOTE 1: APPLY ASPHALT TACK COAT IN ACCORDANCE WITH SECTION 460 BEFORE APPLICATION OF ANY SUPERPAVE SURFACE; INCLUDING ON BASE COURSE.


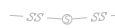
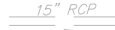



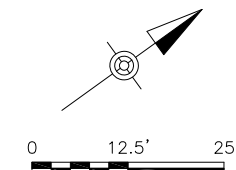
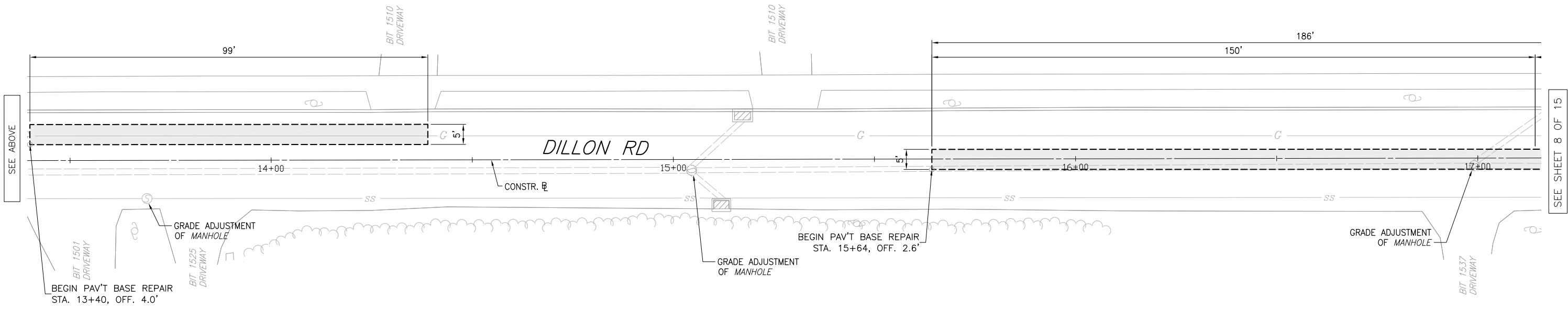
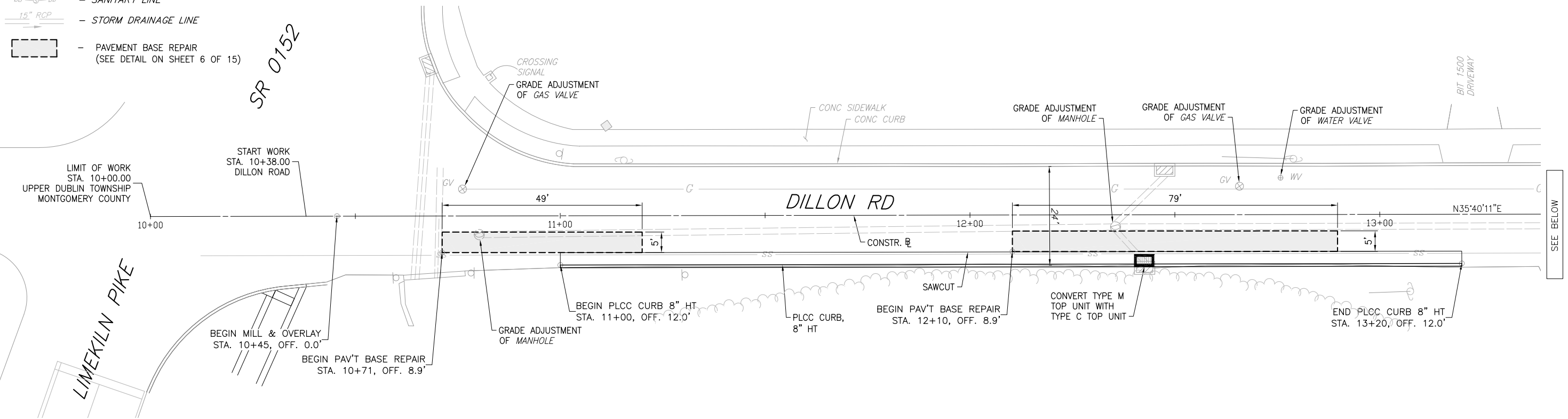
TYPICAL SECTION
STA. 10+38 TO STA. 11+00
STA. 13+20 TO STA. 18+65
STA. 20+75 TO STA. 24+98
STA. 27+50 TO STA. 28+25
STA. 30+85 TO STA. 31+40
STA. 32+50 TO STA. 48+12

TYPICAL SECTIONS
DILLON ROAD

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	MONTGOMERY	0000	DIL	7 OF 15	
UPPER DUBLIN TOWNSHIP					
REVISION NUMBER	REVISIONS			BY	DATE

LEGEND:

-  - WATER LINE
-  - SANITARY LINE
-  - 15" RCP - STORM DRAINAGE LINE
-  - PAVEMENT BASE REPAIR (SEE DETAIL ON SHEET 6 OF 15)

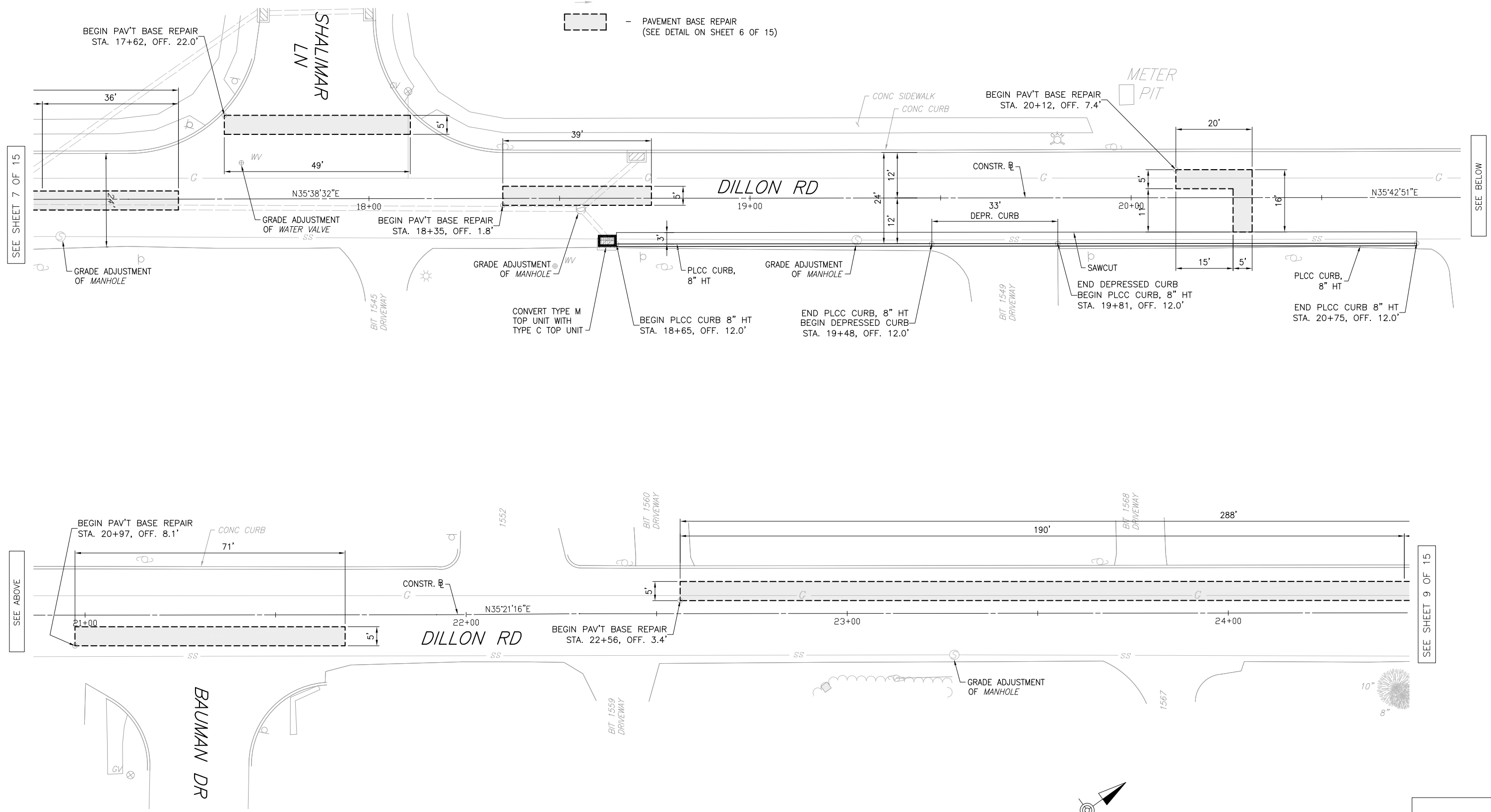


DILLON ROAD ROADWAY PLAN

FOR PROFILE, SEE SHEET 13 OF 15

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	MONTGOMERY	0000	DIL	8 OF 15
UPPER DUBLIN TOWNSHIP				
REVISION NUMBER	REVISIONS			BY DATE

- LEGEND:**
- WATER LINE
 - SANITARY LINE
 - 15" RCP - STORM DRAINAGE LINE
 - PAVEMENT BASE REPAIR (SEE DETAIL ON SHEET 6 OF 15)

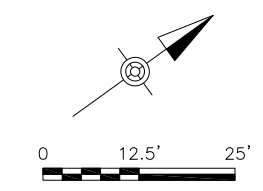


SEE SHEET 7 OF 15

SEE BELOW

SEE ABOVE

SEE SHEET 9 OF 15







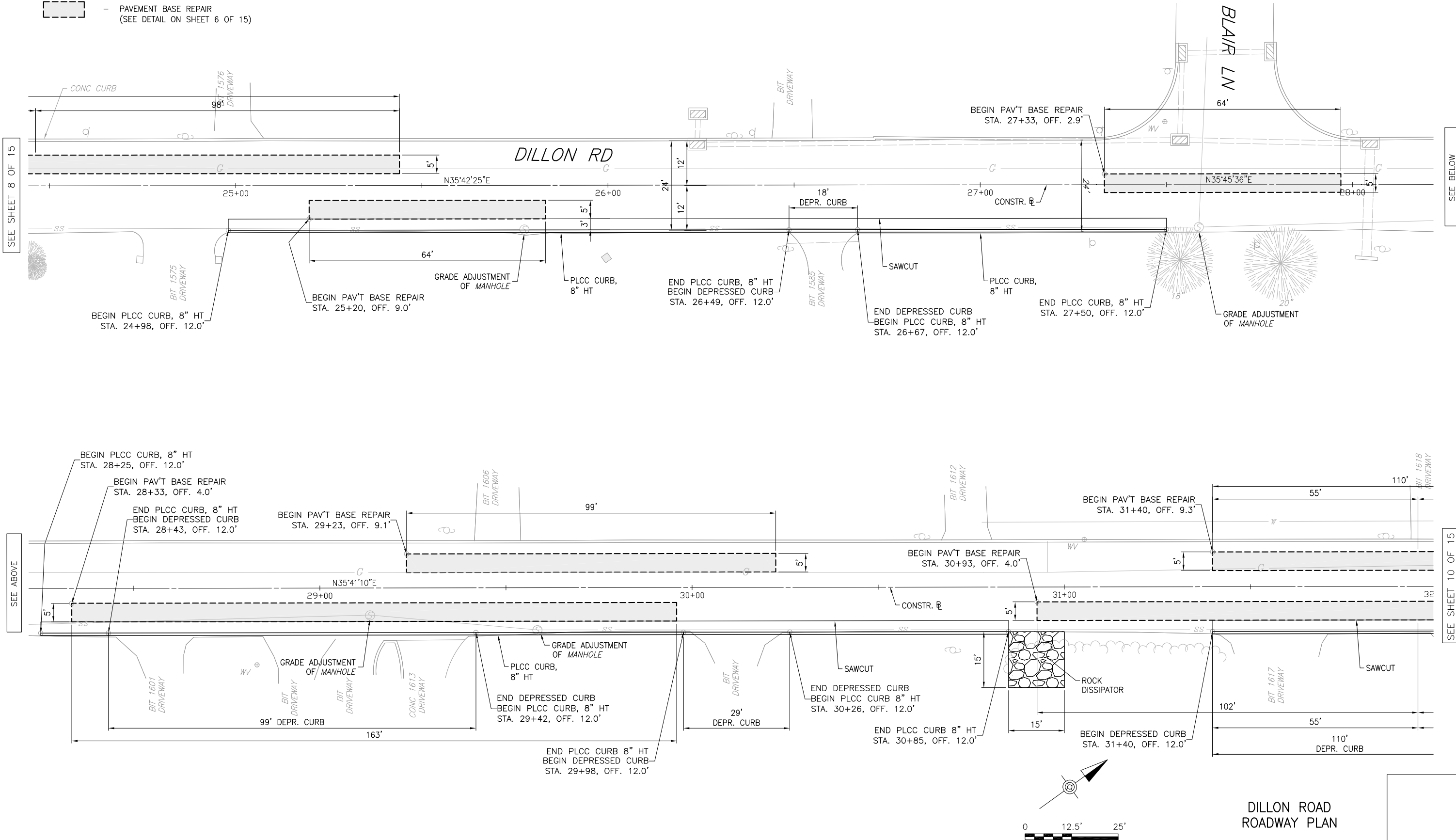
**DILLON ROAD
ROADWAY PLAN**

FOR PROFILE, SEE SHEET 13 OF 15

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	MONTGOMERY	0000	DIL	9 OF 15
UPPER DUBLIN TOWNSHIP				
REVISION NUMBER	REVISIONS			BY DATE

LEGEND:

-  - WATER LINE
-  - SANITARY LINE
-  - STORM DRAINAGE LINE
-  - PAVEMENT BASE REPAIR
(SEE DETAIL ON SHEET 6 OF 15)

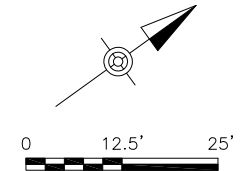


SEE SHEET 8 OF 15

SEE BELOW

SEE ABOVE

SEE SHEET 10 OF 15







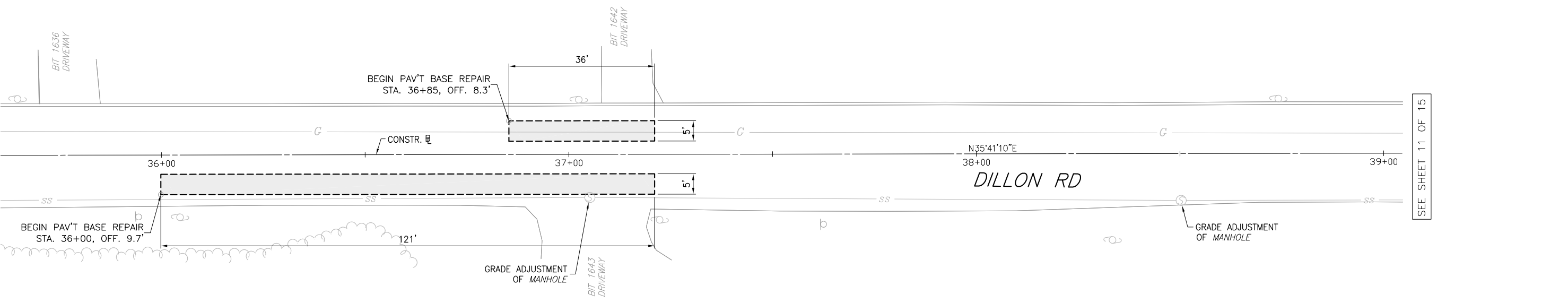
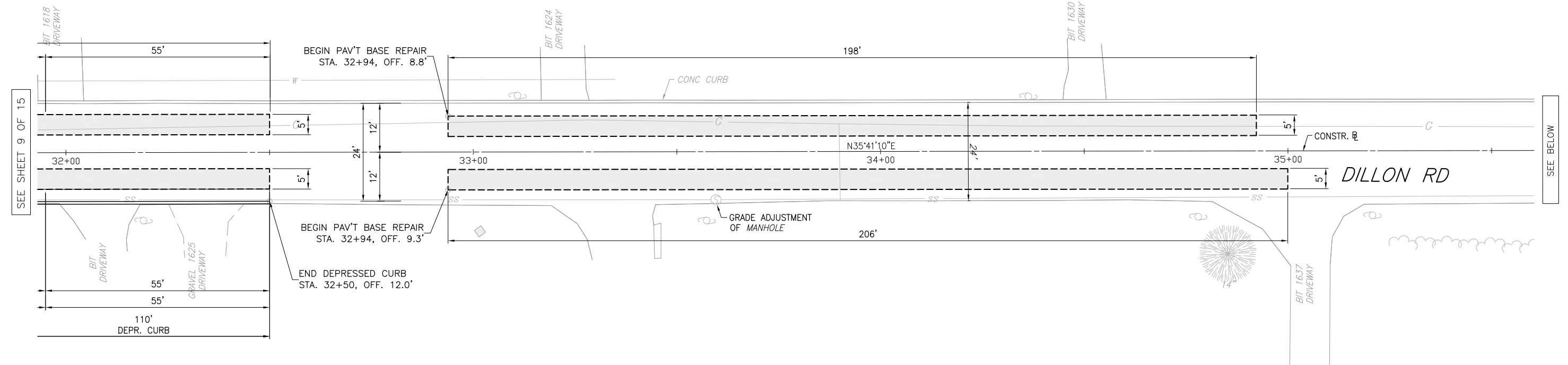
**DILLON ROAD
ROADWAY PLAN**

FOR PROFILE, SEE SHEET 13, 14 OF 15

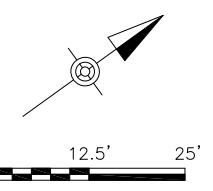
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	MONTGOMERY	0000	DIL	10 OF 15
UPPER DUBLIN TOWNSHIP				
REVISION NUMBER	REVISIONS			BY DATE

LEGEND:

-  - WATER LINE
-  - SANITARY LINE
-  - STORM DRAINAGE LINE
-  - PAVEMENT BASE REPAIR
(SEE DETAIL ON SHEET 6 OF 15)



File: Dillon_RWDY.dwg Layout: Dillon-4 (12_SSC) Plotted: 6/20/23 By: E.Viacinto



**DILLON ROAD
ROADWAY PLAN**

FOR PROFILE, SEE SHEET 13 OF 15

SEE SHEET 9 OF 15





SEE BELOW

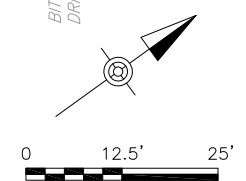
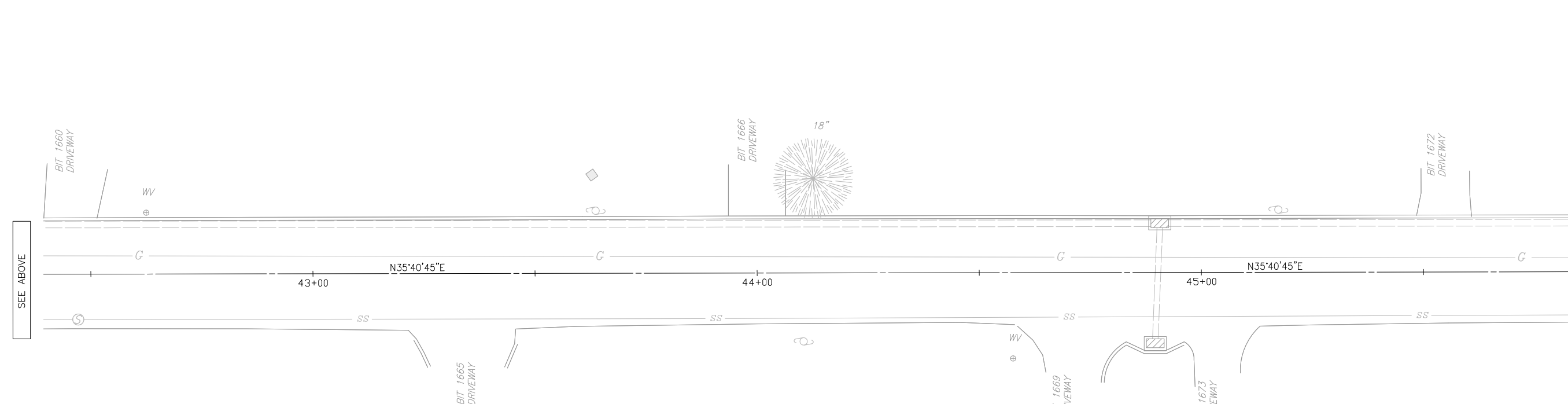
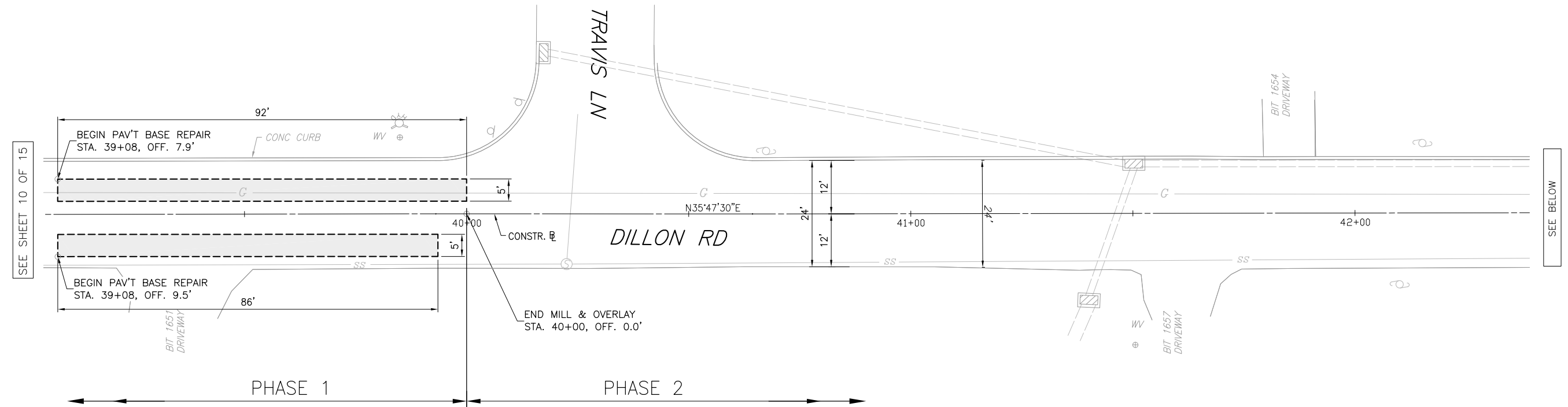
SEE ABOVE

SEE SHEET 11 OF 15

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	MONTGOMERY	0000	DIL	11 OF 15	
UPPER DUBLIN TOWNSHIP					
REVISION NUMBER	REVISIONS			BY	DATE

LEGEND:

-  - WATER LINE
-  - SANITARY LINE
-  - STORM DRAINAGE LINE
-  - PAVEMENT BASE REPAIR
(SEE DETAIL ON SHEET 6 OF 15)







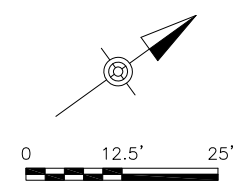
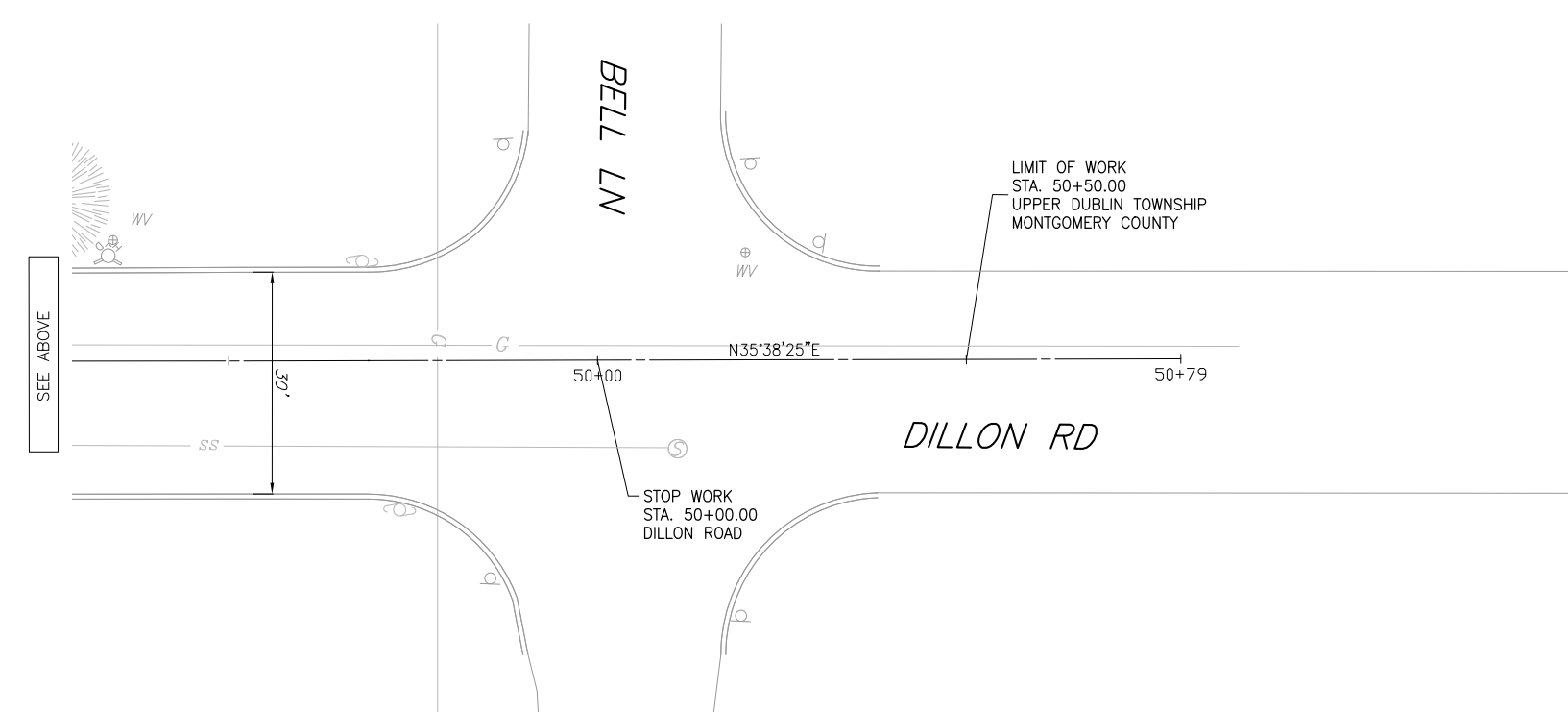
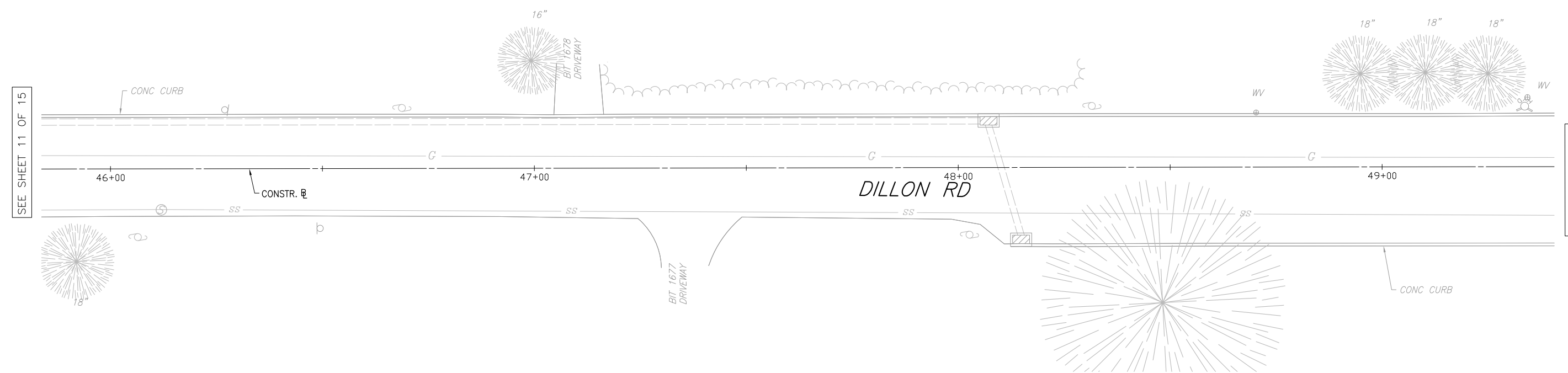
**DILLON ROAD
ROADWAY PLAN**

FOR PROFILE, SEE SHEET 13, 14 OF 14

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	MONTGOMERY	0000	DIL	12 OF 15	
UPPER DUBLIN TOWNSHIP					
REVISION NUMBER	REVISIONS			BY	DATE

LEGEND:

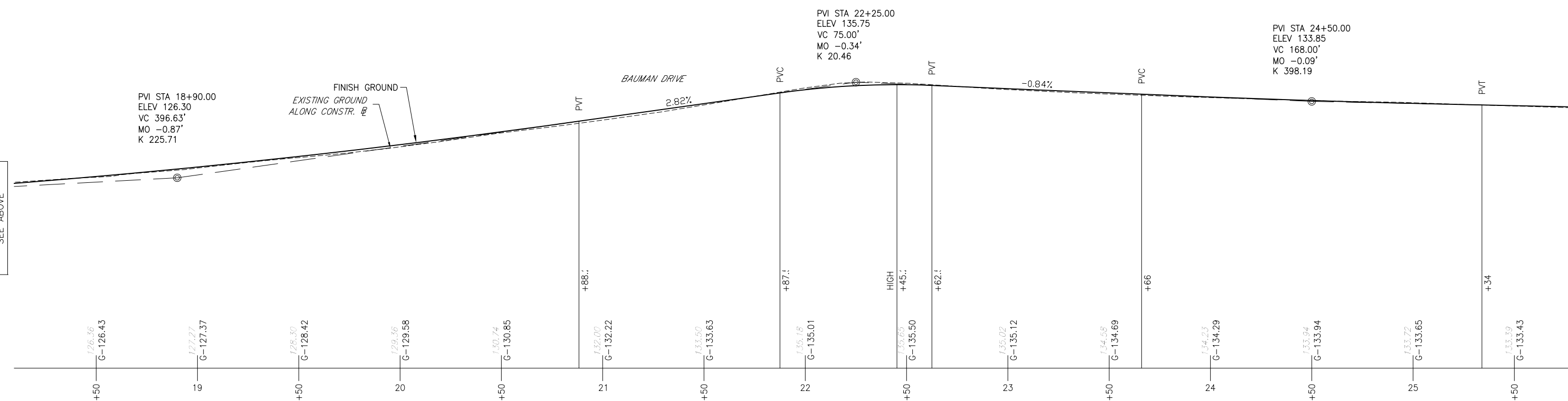
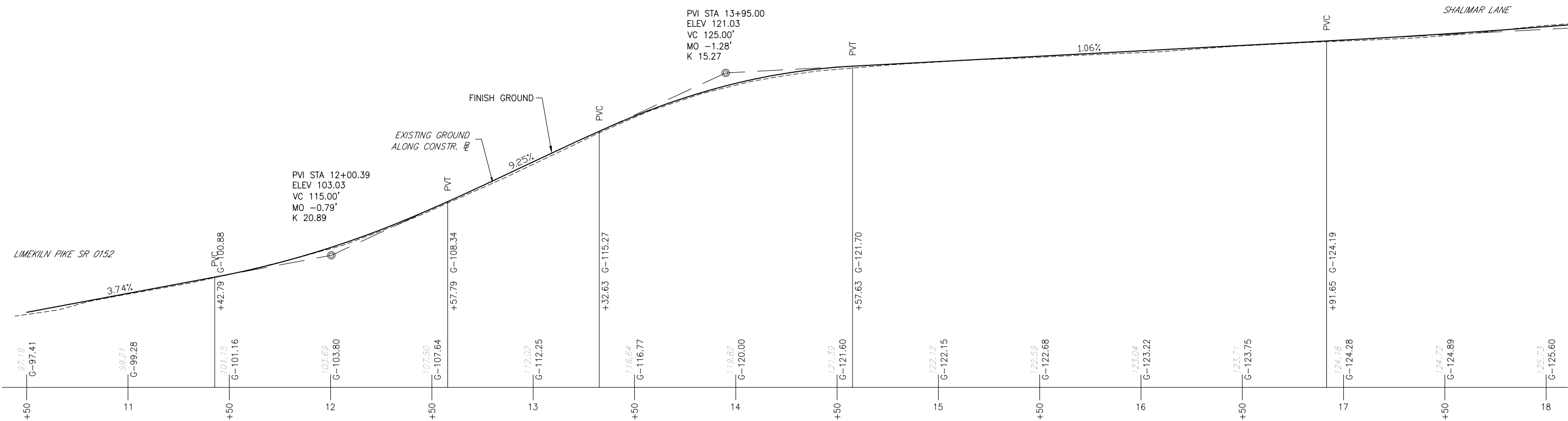
-  - WATER LINE
-  - SANITARY LINE
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-  - PAVEMENT BASE REPAIR
(SEE DETAIL ON SHEET 6 OF 15)



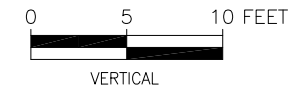
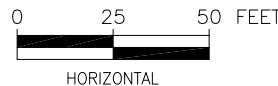
**DILLON ROAD
ROADWAY PLAN**

FOR PROFILE, SEE SHEET 15 OF 15

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	MONTGOMERY	0000	DIL	13 OF 15	
UPPER DUBLIN TOWNSHIP					
REVISION NUMBER	REVISIONS			BY	DATE



ELEVATION



DILLON ROAD
PROFILE

FOR PLAN, SEE SHEETS

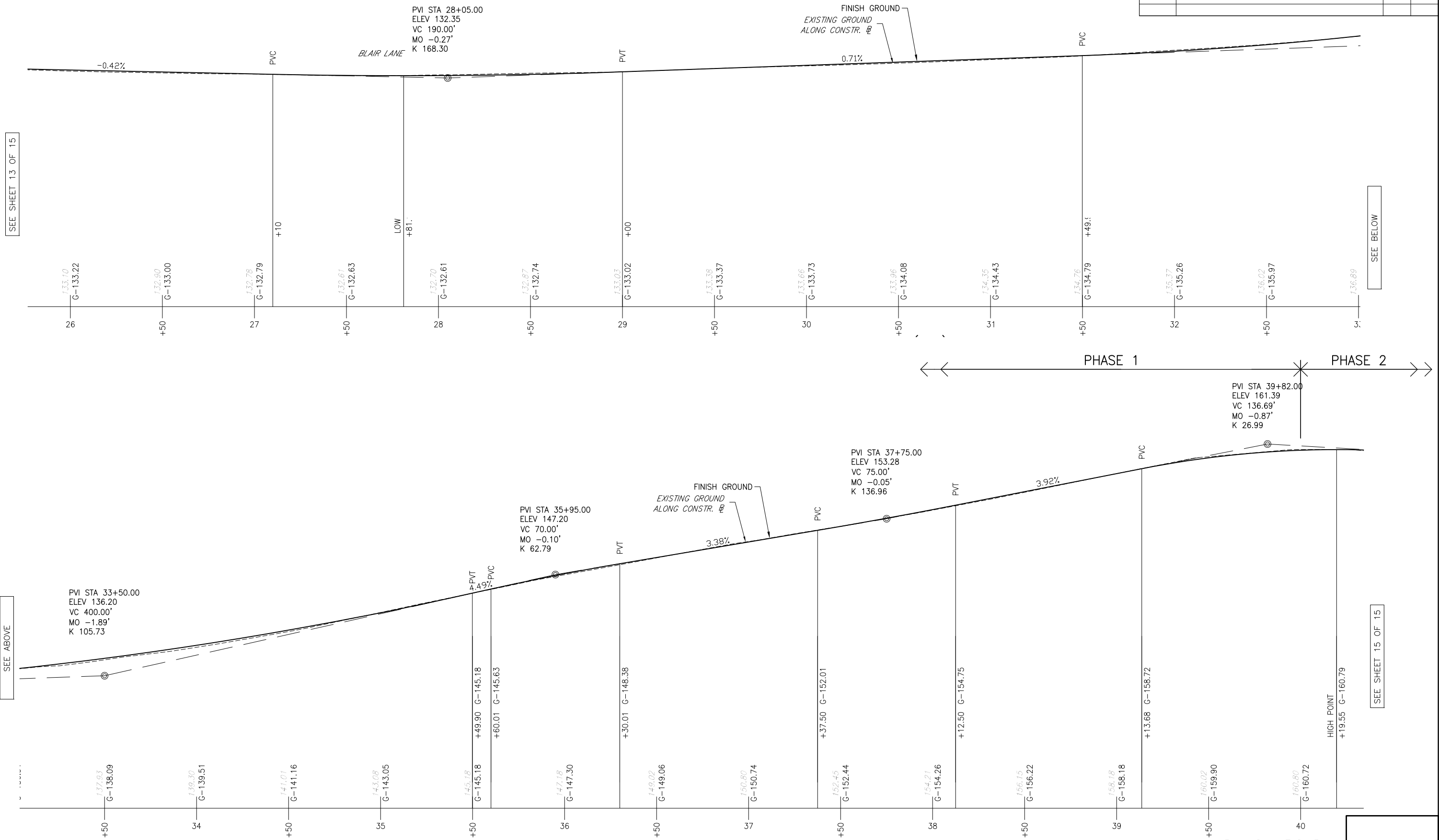
File: Dillon_Profile.dwg Layout: 1 Plotted: 6/16/23 at 2:26pm By: EJacinto

SEE ABOVE

SEE SHEET 14 OF 15

SEE BELOW

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	MONTGOMERY	0000	DIL	14 OF 15	
UPPER DUBLIN TOWNSHIP					
REVISION NUMBER	REVISIONS			BY	DATE



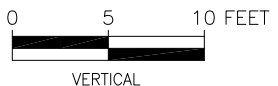
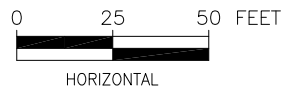
SEE SHEET 13 OF 15

SEE BELOW

SEE ABOVE

SEE SHEET 15 OF 15

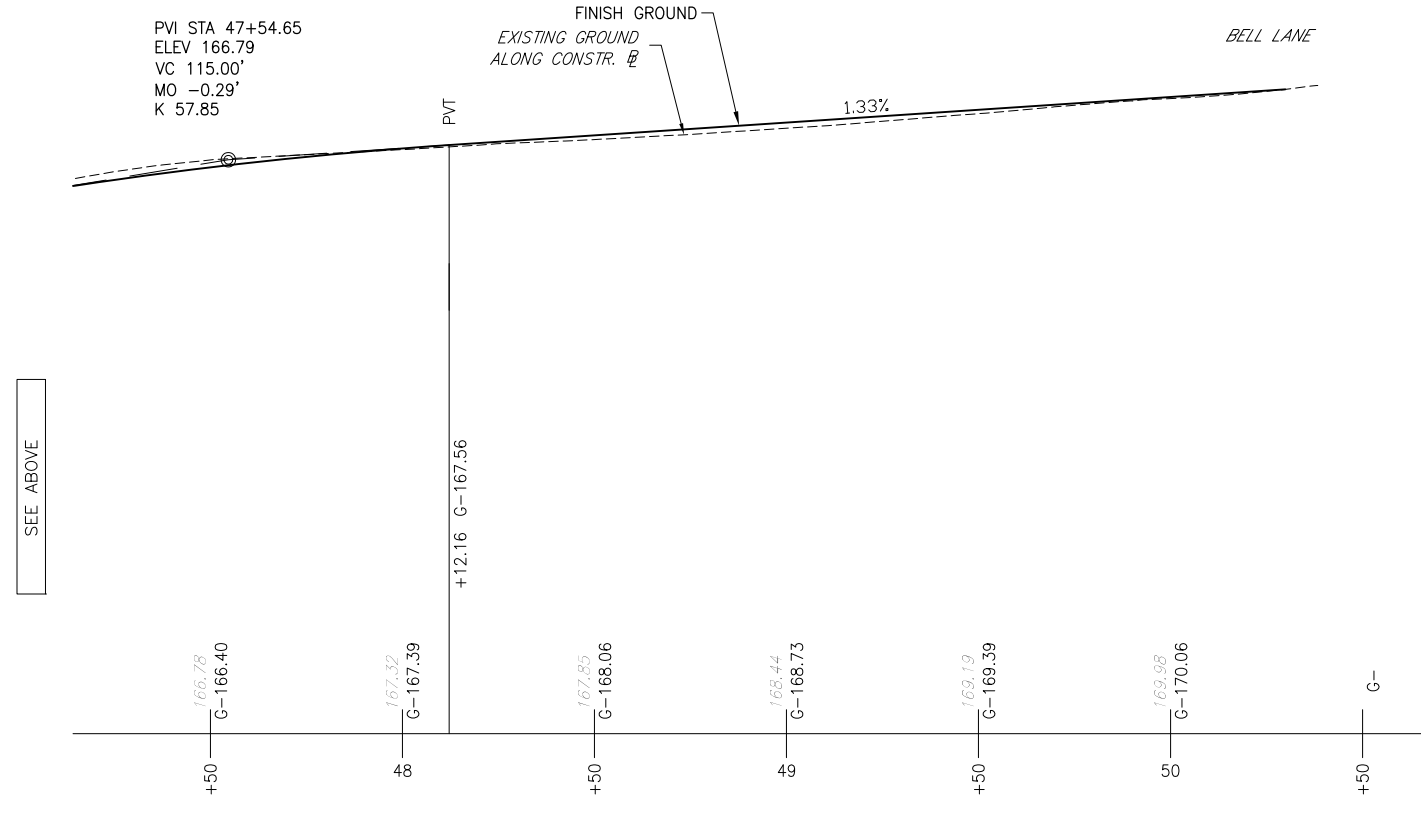
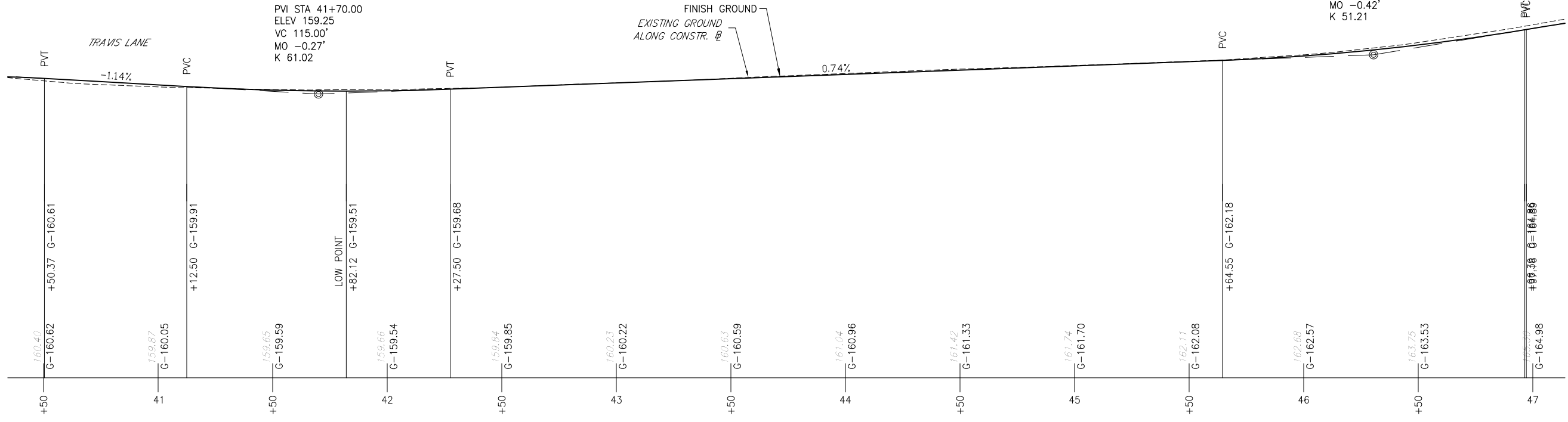
ELEVATION



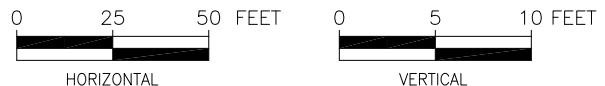
DILLON ROAD PROFILE

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	MONTGOMERY	0000	DIL	15 OF 15	
UPPER DUBLIN TOWNSHIP					
REVISION NUMBER	REVISIONS			BY	DATE

PVI STA 46+30.49
 ELEV 162.67
 VC 131.84'
 MO -0.42'
 K 51.21



ELEVATION



DILLON ROAD
 PROFILE

SEE SHEET 14 OF 15

SEE ABOVE

SEE BELOW