PLAN PREPARATION
DESIGNER RK, FR

ATTACHMENT 6 - TP&D Drawings for Construction of Lake View Drive - HOP Sub 2009-03-24 in progress working draft pending PADOT reviews and approvals (consisting of 24 sheets)

	DISTRICT	COUNTY	TOWNSHIP	BOROUGH	ROUTE	SECTION	TOTAL SHEETS
—	5-0	MONROE	SMITHFIELD	————	2023	--	11

TRAFFIC PLANNING AND DESIGN, INC.

DRAWINGS FOR CONSTRUCTION OF

SHAWNEE VALLEY PLANNED RESIDENTIAL DEVELOPMENT
LAKE VIEW DRIVE

TPD JOB # CMDI.B.00005

STATE ROUTE 2023 SECTION -

IN MONROE COUNTY

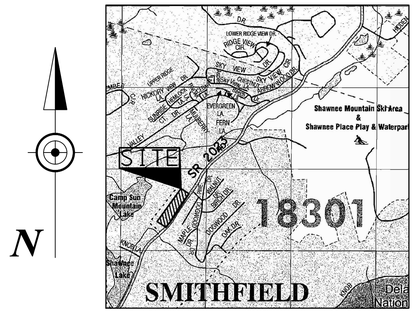
FROM STA 108+00.00 TO STA 116+50.00 LENGTH 850 FT 0.1610 MI

FROM SEG 0030 OFFSET 1876 TO SEG 0040 OFFSET 0666

TITLE SHEET	SHEET	1
GENERAL NOTES AND TYPICAL SECTIONS	SHEETS	2-3
EXISTING PLAN	SHEET	4
CONSTRUCTION PLAN	SHEET	5
PROFILES	SHEETS	6-7
PIPE PROFILES	SHEET	8
ELEVATION AND DRAINAGE PLAN	SHEET	9
PAVEMENT MARKING AND SIGNING PLAN	SHEET	10
PROPOSED CONDITIONS PLAN	SHEET	11

ALSO INCLUDED:

CROSS SECTIONS	6 SHEETS
CONSTRUCTION STAGING	7 SHEETS



Copyright ADC The Map People
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LOCATION MAP

2000′ 0′ 2000′ 4000′

SCALE IN FEET

UNDER DOT REVIEW
PLANS SUBJECT TO CHANGE
DATE 03/24/09

DESIGN DESIGNATION (SR 2023)

HIGHWAY CLASSIFICATION	- RURAL MINOR COLLECTOR
DESIGN SPEED	- 30 MPH
PAVEMENT WIDTH	- 30′
SHOULDER WIDTH	- 5′

TRAFFIC DATA		
CURRENT ADT		5181 (2007)
DESIGN YEAR ADT		7308 (2014)
DHV	804	
D	55%	
T	3%	

PENNSYLVANIA ACT 287 (1974) AS AMENDED BY ACT 181 (2009) REQUIRES NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE COMMONWEALTH.
PA ONE-CALL SERIAL #20090790703 HAS BEEN ASSIGNED TO THIS PROJECT ON 03/20/2009

REVISION NUMBER	REVISIONS	DATE	BY
1	REVISED PER PENNDOT COMMENT LETTER DATED 11/02/07	02/01/08	RJK
2	REVISED PER PENNDOT COMMENT LETTER DATED 3/18/08	5/28/08	RF
3	REVISED PER PENNDOT COMMENT LETTER DATED 7/22/08	03/24/09	RF

PREPARED BY:
TRAFFIC PLANNING & DESIGN, INC.
CENTER VALLEY, PA

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — ROBERT G. RICHARDSON — ENGINEER — No. 44727-E

03/24/09
DATE

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3/27/2009 1:16:18 PM 1:25
jwolfinger

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	MONROE	2023	-	2 OF 11
	SMITHFIELD TOWNSHIP			

REVISION NUMBER	REVISIONS	DATE	BY
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GENERAL NOTES

SEED AND MULCH THE ENTIRE DISTURBED AREA USING FORMULA C FOR ALL SLOPES 3:1 OR STEEPER, FORMULA D FOR SWALES AND FORMULA B FOR THE REMAINDER.

THE LOCATION OF ALL UTILITIES ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION, ALL UTILITIES SERVICES IN AREA ARE TO BE LOCATED, THE USER TO BE NOTIFIED, AND MEASURES TAKEN TO PROTECT LINES IN ACCORDANCE WITH PENNSYLVANIA ACT 181. THE CONTRACTOR SHALL CONTACT PA ONE CALL AT 1-800-242-1776 FOR INFORMATION ON THE UTILITIES APPROXIMATELY ONE WEEK BEFORE PROCEEDING WITH ANY EXCAVATION.

TEMPORARY CONSTRUCTION EASEMENTS ARE REQUIRED ONLY UNTIL THE CONSTRUCTION OF WORK INDICATED BY THE PLAN IS COMPLETED, UNLESS SOONER RELINQUISHED IN WRITING BY THE DEPARTMENT.

CONSTRUCTION PROJECT SHALL BE IN ACCORDANCE WITH SPECIFICATIONS PUBLICATION 408, DATED 2007 OR AS AMENDED. DO NOT INTERFERE WITH THE OPERATION OF ANY FIRE HYDRANTS, FIRE CALL BOX OR POLICE CALL BOX.

BEFORE THE START OF ANY PAVING OPERATIONS, THE DEVELOPER (PERMITTEE) IS RESPONSIBLE FOR ENSURING THAT ALL UTILITY POLES WITHIN THE PROPOSED PAVING AREA ARE RELOCATED OUTSIDE OF THE PAVED AREAS AND SHOULDERS ACCORDING TO PENNDOT DESIGN MANUAL 5. THE RELOCATED POSITIONS ARE TO BE CONSIDERED APPROXIMATE AND ARE SUBJECT TO THE UTILITY POLE RELOCATION PERMIT.

THIS PROJECT IS SUBJECT TO INSPECTION BY THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION.

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

ALL DRAINAGE PIPES ARE TO BE IN ACCORDANCE WITH PADOT DESIGN MANUAL 2 (JULY 2002, AS AMENDED) AND CURRENT APPLICATION CRITERIA.

ANY SCALED DIMENSION FROM THIS PLAN SHALL NOT BE USED FOR CONSTRUCTION WITHOUT CONFIRMATION BY TRAFFIC PLANNING AND DESIGN, INC., CONSULTING ENGINEERS.

THE PROPOSED BOTTOM OF SUBBASE ELEVATION SHALL BE NO HIGHER THAN THE EXISTING BOTTOM OF SUBBASE ELEVATION.

ALL WORK IN PENNDOT RIGHT-OF-WAY IS TO BE BUILT IN ACCORDANCE TO:
- *PENNDOT PUBLICATION NUMBER 408 SPECIFICATIONS
- *PENNDOT PUBLICATION NUMBERS 34,35,41, AND 42 (APPROVED CONSTRUCTION MATERIALS)
- *PENNDOT PUBLICATION NUMBER 72M-STANDARDS FOR ROADWAY CONSTRUCTION
- *PENNDOT PUBLICATION NUMBER 282
- *PENNDOT PUBLICATION NUMBER 213 (67 PA CODE, CHAPTER 212) FIGURES PATA 5, PATA 7, PATA 10b, PATA 18 AND PATA 24
- *PENNDOT PUBLICATION NUMBER 70M
- *TRAFFIC CONTROL PAVEMENT MARKINGS AND SIGNING STANDARDS, TC-8600 AND TC-8700 SERIES, PUB 111M, MAY 2007.
- *PENNDOT PUBLICATION NUMBER 13M
- *PENNDOT PUBLICATION NUMBER 236M
- *PENNSYLVANIA CODE TITLE 67, CHAPTERS 441 AND 459
- *MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), (LATEST EDITION)

SIGNS MUST BE PLACED IN ACCORDANCE WITH PUBLICATION 111M.

THIS PERMIT MAY BE RESTRICTED ON WORKING HOURS AND TIMES FOR HOLIDAYS, WEEKENDS, AND SPECIAL OR UNFORESEEN EVENTS AND WILL REQUIRE APPROVAL FROM THE COUNTY OFFICE PRIOR TO WORKING DURING THESE PERIODS.

NO UNSUITABLE MATERIAL IS TO BE USED IN ANY PORTION OF THE ROADWAY CONSTRUCTION. REMOVE ANY SUBGRADE THAT CANNOT BE PROPERLY COMPACTED AND THAT IS UNSUITABLE MATERIAL. ANY MATERIAL WITH A CBR VALUE OF FIVE (5) OR LESS IS CLASSIFIED AS UNSUITABLE. UNDERCUTTING AND/OR SUBGRADE STABILIZATION MAY BE REQUIRED TO OBTAIN A CBR VALUE GREATER THAN FIVE (5).

ALL INLETS WITHIN THE STATE MAINTAINED RIGHT-OF-WAY MUST HAVE STRUCTURAL STEEL BICYCLE SAFE GRATES.

THE FACE OF ALL UTILITY POLES MUST BE A MINIMUM OF 4 FEET BEHIND THE OUTSIDE EDGE OF AN EXISTING OR PROPOSED SHOULDER OR A MINIMUM OF 2 FEET FROM THE FACE OF EXISTING OR PROPOSED CURB.

ALL PERMANENT SIGNS MUST BE FABRICATED BY AN APPROVED SIGN MANUFACTURER LISTED IN THE DEPARTMENT'S PUBLICATION 35, BULLETIN 15.

WHEN THE SAW CUT MUST BE PLACED BEYOND THE SHOULDER DURING SHOULDER UPGRADING TO REMOVE DAMAGED ROADWAY, IT MAY BECOME NECESSARY TO OVERLAY THE TRAVEL LANE TO PREVENT A JOINT IN A WHEEL PATH.

FOR PERMITS REQUIRING A STATE INSPECTOR, FOLLOWING THE PERMITEE'S REQUEST, ALL WORK WITHIN THE RIGHT-OF-WAY MUST BE COMPLETED WITHOUT TIME INTERRUPTIONS.

THE PERMITTEE SHALL BE THE OWNERS OF AND HAVE PERPETUAL RESPONSIBILITY TO MAINTAIN ALL STORM WATER DRAINAGE FACILITIES INSTALLED AS PART OF THIS HOP.

CONTRACTOR WILL NOTIFY THE PENNDOT PRESS OFFICE AT (610) 871-4555 A MINIMUM OF THREE WORKING DAYS PRIOR TO CLOSING OF TRAVEL LANE.

PER PENNDOT PUB 14M (DM-3) SECTION 3.8.F. BY ACTUAL WIDTH IF THERE IS NO OTHER PROVABLE LEGAL RIGHT-OF-WAY, THE LEGAL RIGHT-OF-WAY SHOULD BE DETERMINED FROM THE ACTUAL WIDTH OF THE EXISTING EDGES OF PAVEMENT AND SHOULDERS. IF THERE IS AN EXISTING SLOPE IT SHOULD BE DESIGNATED AS THE LEGAL LIMIT OF SLOPE LINE.

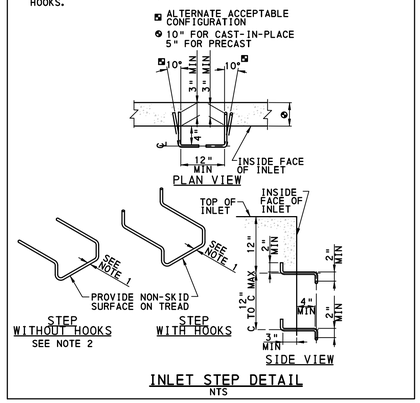
WHERE ROADWAY IMPROVEMENTS OCCUR IN FRONT OF ANOTHER PERSON'S PROPERTY/FRONTAGE, THE PERMITTEE WILL BE REQUIRED TO PROVIDE EVIDENCE OF THEIR BEING NOTIFIED OF THE PROPOSED WORK.

+50.00 / 50.00\ SEGMENT, OFFSET CALL OUT FOR RIGHT-OF-WAY (SCALED DIMENSION)

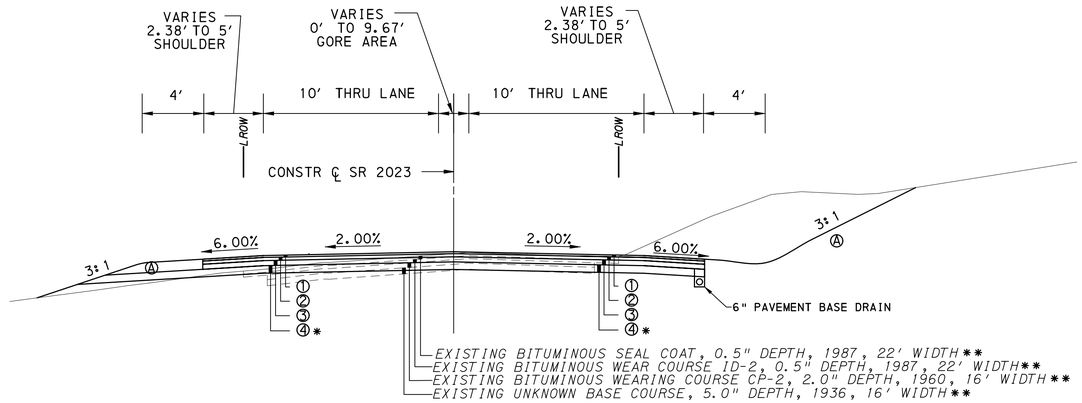
DETAILS OTHER THAN THOSE STATED ARE ON THE FOLLOWING STANDARD DRAWINGS

- RC-25M AUGUST 29, 2008
- RC-30M AUGUST 29, 2008
- RC-31M MARCH 30, 2006
- RC-34M MARCH 30, 2006
- RC-39M APRIL 15, 2004
- RC-45M AUGUST 29, 2008
- RC-46M AUGUST 29, 2008
- RC-50M MARCH 30, 2006
- RC-52M MARCH 30, 2006
- RC-54M MARCH 30, 2006
- RC-64M AUGUST 29, 2008
- RC-65M APRIL 15, 2004
- RC-67M AUGUST 29, 2008

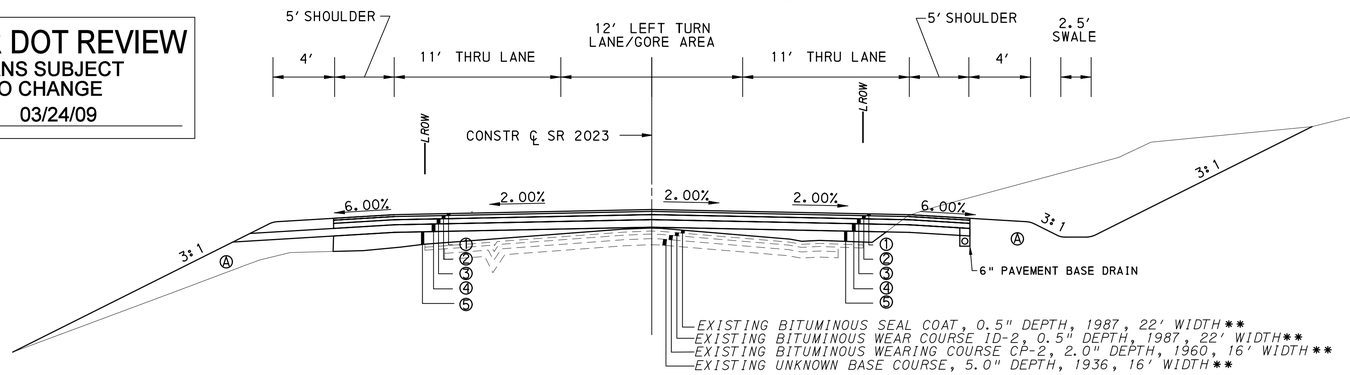
1. PROVIDE MINIMUM 1" SECTION DIMENSION FOR METAL STEPS. PROVIDE MINIMUM 3/4" SECTION DIMENSION FOR NON-DETERIORATING MATERIAL STEPS.
2. MECHANICAL ANCHOR REQUIRED FOR INSTALLATION OF STEPS WITHOUT HOOKS.



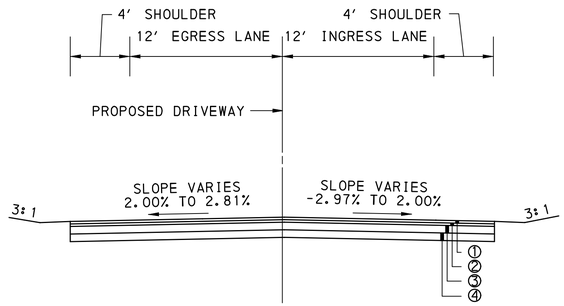
INLET STEP DETAIL
NTS



HOLLOW ROAD (SR 2023)
FROM STA 109+00.00 TO STA 110+75.00
NTS



HOLLOW ROAD (SR 2023)
FROM STA 110+75.00 TO STA 112+75.00
NTS



SITE DRIVE TYPICAL
STA 112+75.00
NTS

① SUPERPAVE ASPHALT MIXTURE DESIGN, HMA WEARING COURSE, PG 64-22, 0 TO < 0.3 MILLION ESALS, 9.5 MM MIX, 1.5" DEPTH, SRL-H
② SUPERPAVE ASPHALT MIXTURE DESIGN, HMA BINDER COURSE, PG 64-22, 0 TO < 0.3 MILLION ESALS, 19.0 MM MIX, 2.5" DEPTH
③ SUPERPAVE ASPHALT MIXTURE DESIGN, HMA BASE COURSE, PG 64-22, 0 TO < 0.3 MILLION ESALs, 25.0 MM MIX, 4" DEPTH
④ 6" 2A SUBBASE*
⑤ VARIABLE DEPTH BASE COURSE (PER PUB 408)
* MATCH EXISTING PAVEMENT DEPTH IF GREATER.
** EXISTING PAVEMENT HISTORY PER ROADWAY MANAGEMENT INFORMATION SYSTEM PAVEMENT HISTORY 09/25/2007
Ⓐ ALL SEEDING AND SOIL SUPPLEMENT PER PUBLICATION 408.

UNDER DOT REVIEW
PLANS SUBJECT TO CHANGE
DATE 03/24/09

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — ROBERT G. RICHARDSON — ENGINEER — No. 44727-E

TRAFFIC PLANNING AND DESIGN, INC.
POTTSTOWN (610)326-3100
LEHIGH VALLEY (610)625-4242 | HARRISBURG (717)234-1430 | SOUTH JERSEY (856)966-4242
WWW.TRAFFICPD.COM

DATE:10/05/2007 | PROJECT DESIGNER: RJK | JOB NO: CMDI.B.00005

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	MONROE	2023	-	3 OF 11
	SMITHFIELD TOWNSHIP			

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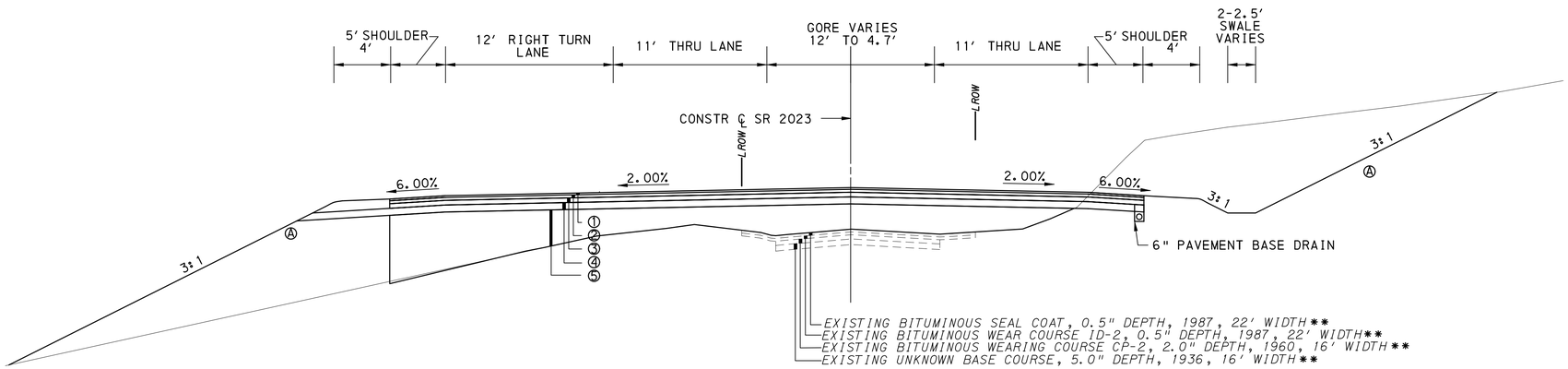
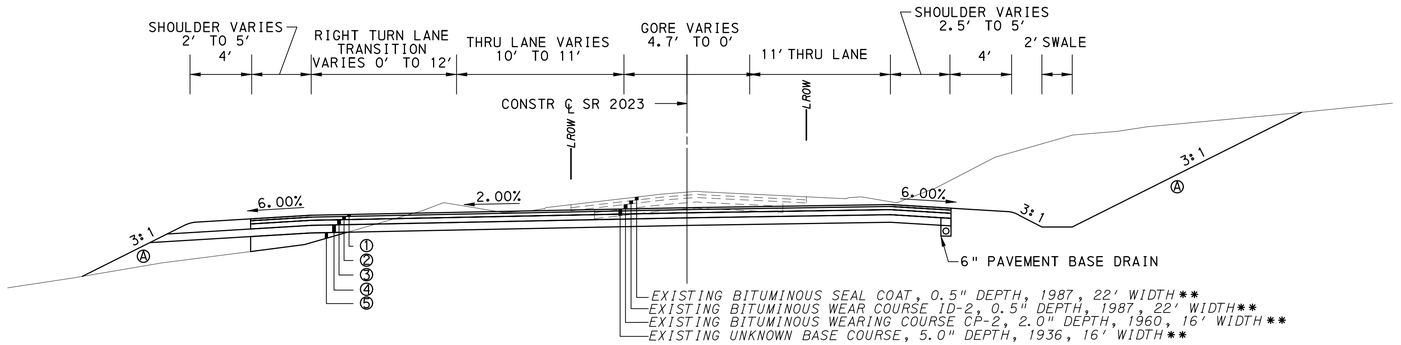


HOLLOW ROAD (SR 2023)
FROM STA 112+75.00 TO STA 115+40.33
NTS



HOLLOW ROAD (SR 2023)
FROM STA 115+40.33 TO STA 116+41.35
NTS

UNDER DOT REVIEW
PLANS SUBJECT TO CHANGE
DATE 03/24/09

UTILITIES

COMPANY: EAST STROUDSBURG AREA SCHOOL DISTRICT
ADDRESS: 321 NORTH COURLAND ST. PO BOX 298
EAST STROUDSBURG, PA. 18301
CONTACT: JAMES F. SHEAROUSE

COMPANY: VERIZON PENNSYLVANIA INC.
ADDRESS: 201 STANWIX ST. 4TH FLOOR
PITTSBURGH, PA. 15222
CONTACT: OFFICE PERSONNEL

COMPANY: ROCK-TENN COMPANY MILL DIVISION INC.
ADDRESS: PAPER MILL RD.
PO BOX 770
DELEWARE WATER GAP, PA. 18327
CONTACT: RONALD KOLMENT

① SUPERPAVE ASPHALT MIXTURE DESIGN, HMA WEARING COURSE, PG 64-22, 0 TO < 0.3 MILLION ESALS, 9.5 MM MIX, 1.5" DEPTH,SRL-H
② SUPERPAVE ASPHALT MIXTURE DESIGN, HMA BINDER COURSE, PG 64-22, 0 TO < 0.3 MILLION ESALS, 19.0 MM MIX, 2.5" DEPTH
③ SUPERPAVE ASPHALT MIXTURE DESIGN, HMA BASE COURSE, PG 64-22, 0 TO < 0.3 MILLION ESALs, 25.0 MM MIX, 4" DEPTH
④ 6" 2A SUBBASE*
⑤ VARIABLE DEPTH BASE COURSE (PER PUB 408)

* MATCH EXISTING PAVEMENT DEPTH IF GREATER.
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WWW.TRAFFICPD.COM

DATE:10/05/2007 | PROJECT DESIGNER: RJK | JOB NO: CMDI.B.00005

GENERAL NOTES AND TYPICAL SECTIONS

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3/27/2009 11:40:43 PM

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	MONROE	2023	-	4 OF 11
	SMITHFIELD TOWNSHIP			

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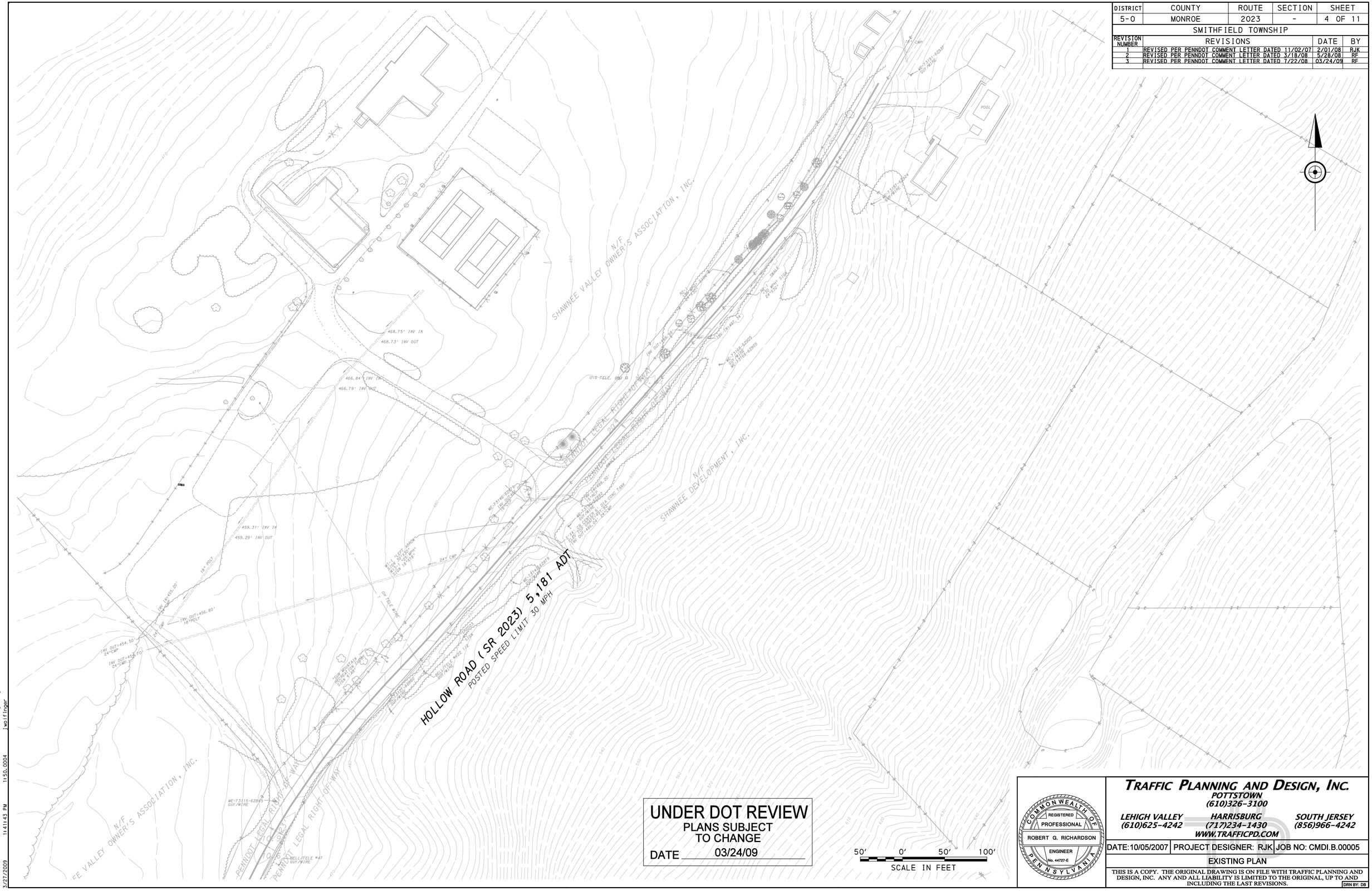

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EXISTING PLAN

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3/27/2009 11:41:43 PM 1:50.0004 wolfinger

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	MONROE	2023	-	5 OF 11
	SMITHFIELD TOWNSHIP			

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SITE DRIVE @ STA 112+75.00

ALL SIGHT DISTANCE OBSTRUCTIONS (INCLUDING BUT NOT LIMITED TO EMBANKMENTS AND VEGETATION) SHALL BE REMOVED BY THE DEVELOPER (PERMITTEE) TO PROVIDE A MINIMUM OF 335' OF CONTINUOUS SIGHT DISTANCE TO THE LEFT AND 335' OF CONTINUOUS SIGHT DISTANCE TO THE RIGHT FOR A DRIVER EXITING THE PROPOSED INTERSECTION ONTO THE THROUGH HIGHWAY. THE DRIVER MUST BE CONSIDERED TO BE POSITIONED 15 FEET FROM THE NEAR EDGE OF THE CLOSEST HIGHWAY THROUGH TRAVEL LANE (FROM THE CURB LINE IF CURBING IS PRESENT) AT AN EYE HEIGHT OF 3'-6" ABOVE PAVED SURFACE. THE POINT SIGHTED BY THE EXITING DRIVER SHALL ALSO BE 3'-6" ABOVE THE PAVED SURFACE LOCATED IN THE CENTER OF THE CLOSEST HIGHWAY TRAVEL LANE DESIGNATED FOR USE BY THE APPROACHING TRAFFIC. THE CONTINUOUS SIGHT DISTANCE SHALL BE MAINTAINED BY THE PERMITTEE.

℄ LAKE VIEW DRIVE
PI STA 1+71.00
Δ = 65°42'26"
D = 31°49'52"
T = 116.24'
L = 206.43'
R = 180.00'
E = 34.27'

REQUIRED RIGHT-OF-WAY
LAKE VIEW DRIVE
REQUIRED RIGHT-OF-WAY
468.75' INV IN
468.73' INV OUT
N/F SHAWNEE DEVELOPMENT, INC.

UNDER DOT REVIEW
PLANS SUBJECT TO CHANGE
DATE 03/24/09

℄ SR 2023
PI STA 113+52.07
Δ = 1°15'08"
D = 1°15'08"
T = 50.00'
L = 100.00'
R = 4575.91'
E = 0.27

℄ SR 2023
PI STA 116+40.90
Δ = 10°52'48"
D = 5°59'40"
T = 91.02'
L = 181.50
R = 955.81
E = 4.32

LIMIT OF WORK

STA 108+00.00
SEG 0030 OFF 1876
HOLLOW ROAD (SR 2023)
SMITHFIELD TOWNSHIP
MONROE COUNTY
ADT 5181

"SUN MOUNTAIN RECREATION CLUB" SIGN 4'X8'
PENNDOT LEGAL RIGHT-OF-WAY
33'
108
10.1'
10.4'
ME-73127 GUY/WIRE
PENNDOT LEGAL RIGHT-OF-WAY
MATCHLINE A-A

℄ SR 2023
PI STA 106+36.45
Δ = 26°18'34"
D = 6°59'05"
T = 109.72'
L = 376.68'
R = 820.31'
E = 22.11

R2-1 "30 MPH" SIGN 24"X30"

MATCH EXIST EOR/ END FULL DEPTH
STA 116+41.31
OFF 10.01' LT

EXISTING FENCE TO BE REMOVED
STA 116+00.46
OFF 22.5' LT
+50 37'
+50 10'
+31 10'
+31 31'

TO BE REMOVED
W1-1 "LEFT ARROW SIGN" 30"X30"
W13-1 "30 MPH" SIGN 18'X18" TO BE RELOCATED
W1-1 "LEFT ARROW SIGN 30"X30"
W13-1 "25 MPH" SIGN 18"X18"
MATCH EXIST EOR/ BEGIN FULL DEPTH
STA 108+95.01
OFF 9.69' LT
PROPOSED R-3 RIP-RAP
STA 110+74.71
OFF 22.0' LT
+00 25'
+00 10'
REQUIRED RIGHT-OF-WAY TO BE DEEDED TO THE COMMONWEALTH
STA 109+34.81
OFF 16.94' LT
PROPOSED TYPE D-W ENDWALL
MATCHLINE A-A
56'
109
110
111
112
113
114
115
116
STA 108+95.01
OFF 12.76' RT
STA 110+74.76
OFF 22.0' RT
PROPOSED 36" RCP
"SR2023 40" SIGN
BELL/TELE #K22 1/2 GUY/WIRE
ME-73146-62879 GUY/WIRE
ME-73143-62879 GUY/WIRE
+00 10'
+00 31'
STA 108+95.01
OFF 12.76' RT
MATCH EXIST EOR/ BEGIN FULL DEPTH
STA 108+90.01
OFF 10.76' RT
EXISTING DRIVEWAY TO BE REGRADED AND SEEDED
PROPOSED TYPE D-W ENDWALL
EXISTING FENCE TO BE REMOVED
PROPOSED R-3 RIP-RAP
PROPOSED 18" RCP
INV OUT486.07
18"RCP
24" CMP
PROPOSED TYPE 'M' INLET
EXISTING PIPE TO BE REMOVED
EXISTING PIPE/ INLET TO BE REMOVED
335' REQUIRED SIGHT DISTANCE
470' AVAILABLE SIGHT DISTANCE
N/F SHAWNEE DEVELOPMENT, INC.
PCC STA 112+57.28
OFF 78.90' LT
PC STA 112+07.76
OFF 21.00' LT
196' R
163' R
50' R
40'
32'
15'
90°
PCC STA 112+89.57
OFF 78.0' LT
+00 25'
+00 37'
+19 37'
+40 37'
+02 37'
+99 37'
PROPOSED TYPE D-W ENDWALL
PROPOSED R-3 RIP-RAP
PT STA 113+39.48
OFF 33.9' LT
STA 114+11.52
OFF 32.7' LT
REQUIRED RIGHT-OF-WAY TO BE DEEDED TO THE COMMONWEALTH
R2-1 TO BE RELOCATED
STA 115+40.65
OFF 30.1' LT
TELEPHONE BOX TO BE RELOCATED
PROPOSED 24" RCP
EXISTING PIPE TO BE REMOVED
6" PAVEMENT BASE DRAIN
68.0'
PC STA 115+84.92
OFF 12.49' RT
2416' R
8' R
SWALE
PENNDOT LEGAL RIGHT-OF-WAY
INV OUT=497.34
PROPOSED TYPE D-H INLET
ME-73168-62905 GUY/WIRE
ME-73168-62905
STA 114+10.57
OFF 23.3' RT
PCC STA 115+84.92
OFF 12.49' RT
R2-1 SIGN TO BE RELOCATED
MATCH EXISTING EOR
PT STA 107+97.88
OFF 25.65' RT
1' PAVEMENT NOTCH PER RC-28M
MATCH EXIST EOR/ END FULL DEPTH
STA 116+41.29
OFF 9.46' RT
335' REQUIRED SIGHT DISTANCE
575' AVAILABLE SIGHT DISTANCE
PROPOSED TYPE D-H INLET
6" PAVEMENT BASE DRAIN
STA 113+02.07
OFF 21.0' RT
+02 31'
15"RCP
ME-73150-62882 GUY/WIRE
2'X4' CB CENTER 6' DIA CONC TANK
ELEV TOP GRATE=491.92'
INV OUT=486.04' 24"CMP
ME-73143-62879 GUY/WIRE
HOLLOW ROAD (SR 2023)
POSTED SPEED LIMIT 30 MPH
LOW VOLUME LOCAL ROAD
LAKE VIEW DRIVE
STA 112+75.00
SEG 0040 OFF 0291
HOLLOW ROAD (SR 2023)
SMITHFIELD TOWNSHIP
MONROE COUNTY
505 VPD (1010 ADT)
N/F SHAWNEE DEVELOPMENT, INC.

LIMIT OF WORK

STA 116+50.00
SEG 0040 OFF 0666
HOLLOW ROAD (2023)
SMITHFIELD TOWNSHIP
MONROE COUNTY
ADT 5181

LEGEND

- SEED AND SOIL SUPPLEMENT
- PROPOSED FULL DEPTH PAVEMENT

SITE SIDE	SITE SIDE
865' TO NEAREST INTERSECTION (KNOB LN)	4298' TO NEAREST INTERSECTION (SHAWNEE VALLEY DR)
780' TO NEAREST DRIVEWAY (PRIVATE DRIVEWAY)	707' TO NEAREST DRIVEWAY (PRIVATE DRIVEWAY)
1968' TO NEAREST INTERSECTION (SHAWNEE CHURCH RD)	344' TO NEAREST DRIVEWAY (PRIVATE)
2233' TO NEAREST DRIVEWAY (SHAWNEE FIRE CO.)	2003' TO NEAREST INTERSECTION (FT PINE DR)
OPPOSITE SIDE	OPPOSITE SIDE

25' 0' 25' 50'
SCALE IN FEET

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
ROBERT G. RICHARDSON
ENGINEER
No. 44727-E

TRAFFIC PLANNING AND DESIGN, INC.
POTTSTOWN (610)326-3100
LEHIGH VALLEY (610)625-4242
HARRISBURG (717)234-1430
SOUTH JERSEY (856)966-4242
WWW.TRAFFICPD.COM

DATE:10/05/2007 | PROJECT DESIGNER: RJK | JOB NO: CMDI.B.00005

CONSTRUCTION PLAN

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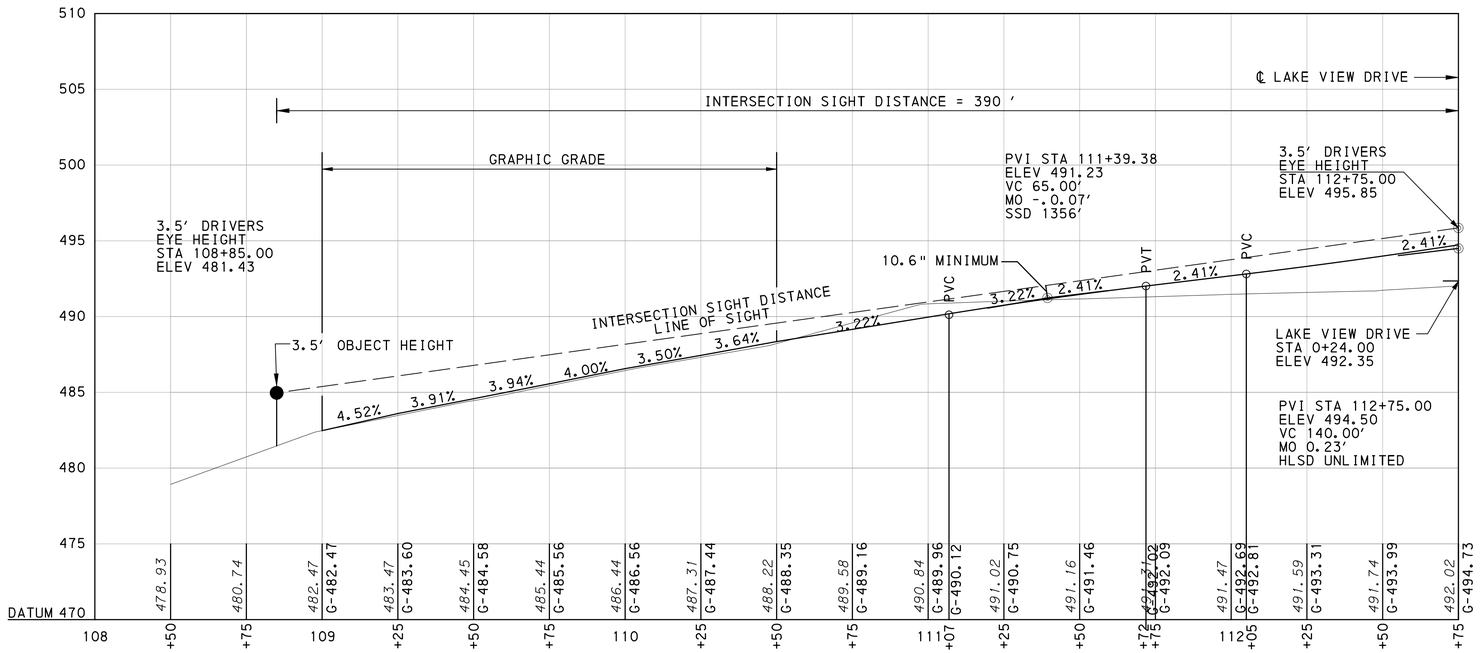
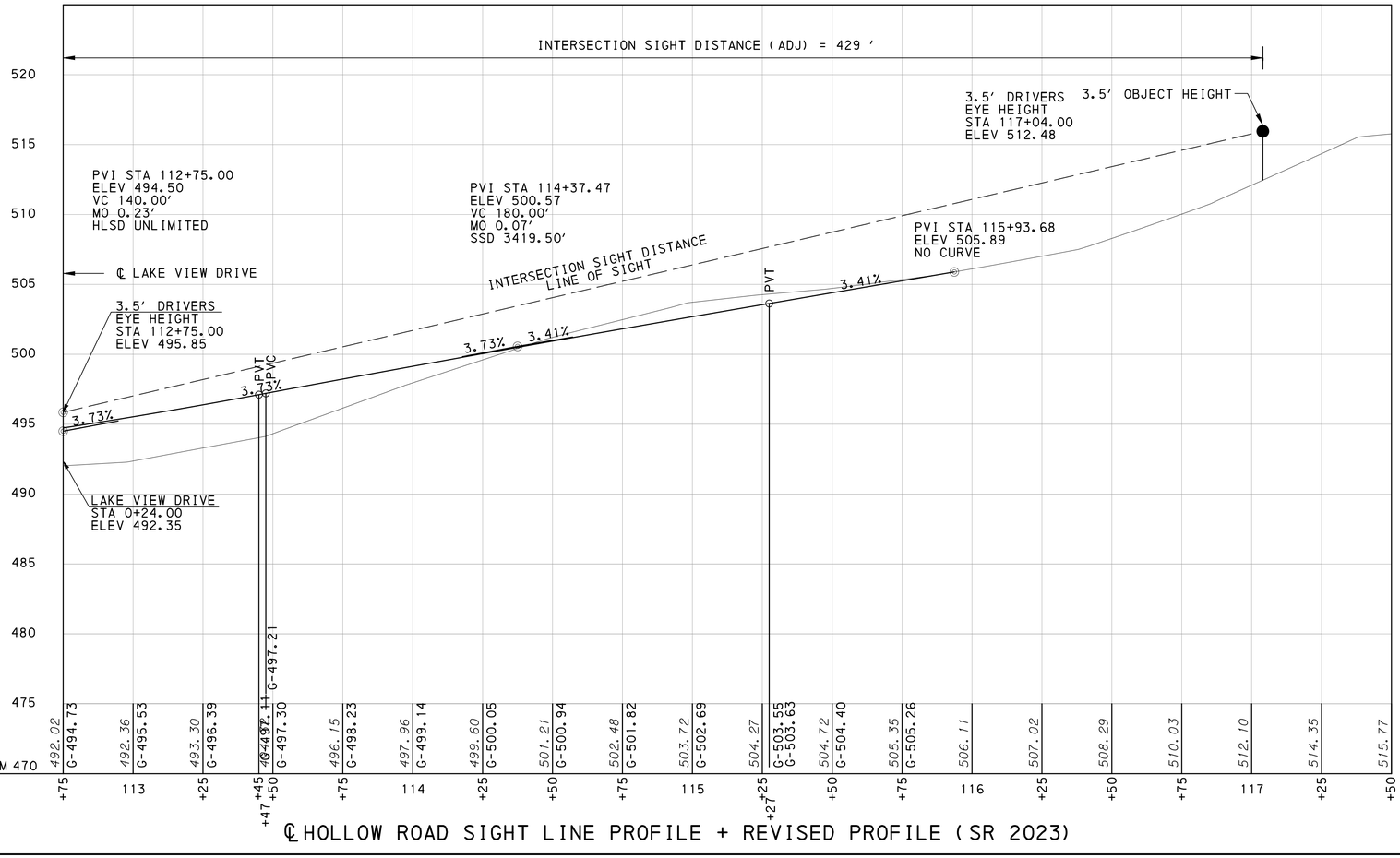
3/27/2009 11:42:49 PM

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	MONROE	2023	-	6 OF 11

SMITHFIELD TOWNSHIP

REVISION NUMBER	REVISIONS	DATE	BY
1	REVISED PER PENNDOT COMMENT LETTER DATED 11/02/07	2/01/08	RJK
2	REVISED PER PENNDOT COMMENT LETTER DATED 3/18/08	5/28/08	RF
3	REVISED PER PENNDOT COMMENT LETTER DATED 7/22/08	03/24/09	RF





℄ HOLLOW ROAD SIGHT LINE PROFILE + REVISED PROFILE (SR 2023)

UNDER DOT REVIEW
PLANS SUBJECT TO CHANGE
DATE 03/24/09

5 0 5 10 VERTICAL
25 0 25 50 HORIZONTAL
SCALE IN FEET

TRAFFIC PLANNING AND DESIGN, INC.
POTTSTOWN (610)326-3100
LEHIGH VALLEY (610)625-4242
HARRISBURG (717)234-1430
SOUTH JERSEY (856)966-4242
WWW.TRAFFICPD.COM

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — ROBERT G. RICHARDSON — ENGINEER — No. 44727-E

DATE:10/05/2007 | PROJECT DESIGNER: RJK | JOB NO: CMDI.B.00005

PROFILES

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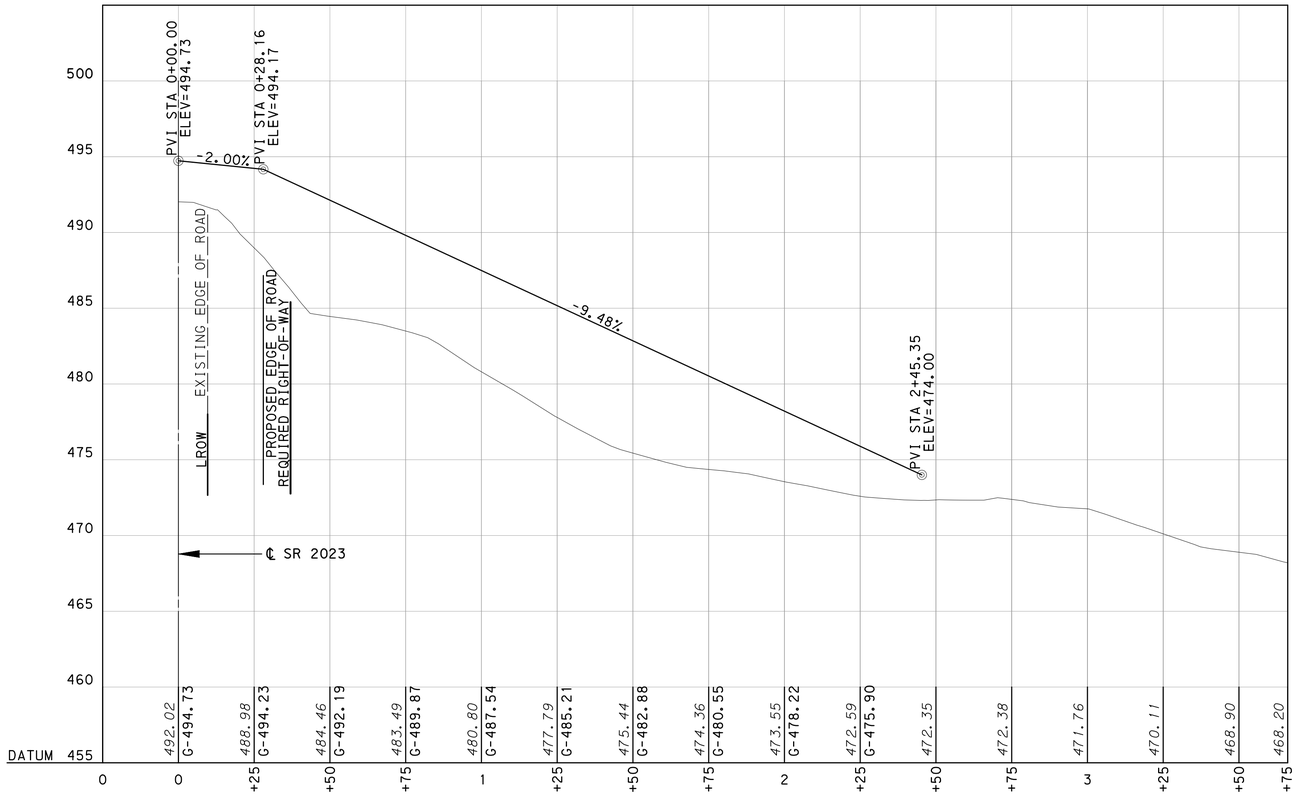
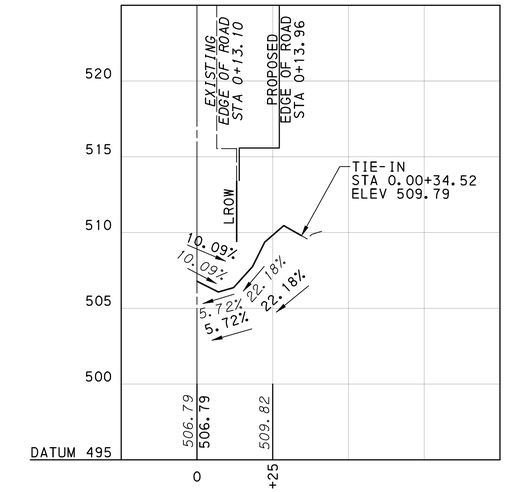
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	MONROE	2023	-	7 OF 11
	SMITHFIELD TOWNSHIP			

REVISION NUMBER	REVISIONS	DATE	BY
1	REVISED PER PENNDOT COMMENT LETTER DATED 11/02/07	2/01/08	RJK
2	REVISED PER PENNDOT COMMENT LETTER DATED 3/18/08	5/28/08	RF
3	REVISED PER PENNDOT COMMENT LETTER DATED 7/22/08	03/24/09	RF



℄LAKE VIEW DRIVE
STA 112+75.00



AFFECTED DRIVEWAY
STA 116+18.61

5 0 5 10 VERTICAL
25 0 25 50 HORIZONTAL
SCALE IN FEET

UNDER DOT REVIEW
PLANS SUBJECT TO CHANGE
DATE 03/24/09

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
ROBERT G. RICHARDSON
ENGINEER
No. 44727-E

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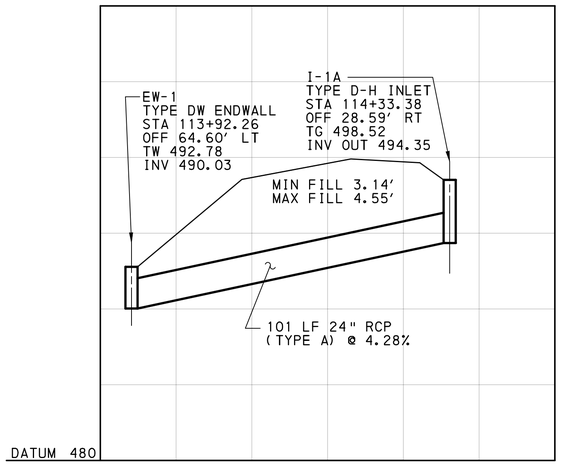
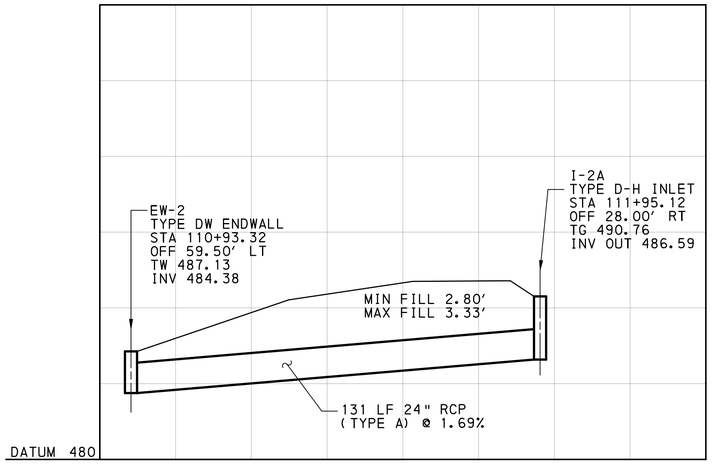
3/27/2009 11:44:44 PM 1:25.0002 jwolfinger

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	MONROE	2023	-	8 OF 11
	SMITHFIELD TOWNSHIP			

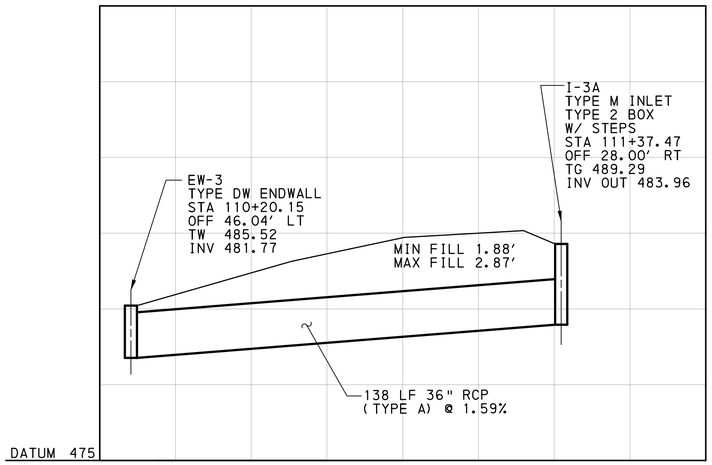
REVISION NUMBER	REVISIONS	DATE	BY
1	REVISED PER PENNDOT COMMENT LETTER DATED 11/02/07	2/01/08	RJK
2	REVISED PER PENNDOT COMMENT LETTER DATED 3/18/08	5/28/08	RF
3	REVISED PER PENNDOT COMMENT LETTER DATED 7/22/08	03/24/09	RF



PIPE PROFILE INLET I-1A TO ENDWALL EW-1



PIPE PROFILE INLET I-2A TO ENDWALL EW-2



PIPE PROFILE INLET I-3A TO ENDWALL EW-3

UNDER DOT REVIEW
PLANS SUBJECT
TO CHANGE
DATE 03/24/09

5 0 5 10 — VERTICAL
25 0 25 50 — HORIZONTAL
SCALE IN FEET

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
ROBERT G. RICHARDSON
ENGINEER
No. 44727-E

TRAFFIC PLANNING AND DESIGN, INC.
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DATE:10/05/2007 | PROJECT DESIGNER: RJK | JOB NO: CMDI.B.00005

PIPE PROFILES

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3/27/2009 11:45:36 PM 1:25.0002 wolfinger

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	MONROE	2023	-	9 OF 11
	SMITHFIELD TOWNSHIP			

REVISION NUMBER	REVISIONS	DATE	BY
1	REVISED PER PENNDOT COMMENT LETTER DATED 11/02/07	2/01/08	RJK
2	REVISED PER PENNDOT COMMENT LETTER DATED 3/18/08	5/28/08	RF
3	REVISED PER PENNDOT COMMENT LETTER DATED 7/22/08	03/24/09	RF

UNDER DOT REVIEW
PLANS SUBJECT TO CHANGE
DATE 03/24/09

LAKE VIEW DRIVE

HOLLOW ROAD (SR 2023)
POSTED SPEED LIMIT 30 MPH

N/F SHAWNEE DEVELOPMENT, INC.

PENNDOT LEGAL RIGHT-OF-WAY

ME-73146-62879

ME-73143-62879

ME-73168-62905

BELL/TELE #K22 1/2

OH TELE WIRE

GUY WIRE

W1-1 "LEFT ARROW" SIGN 30"X30"
W13-1 "25 MPH" SIGN 18"X18"

R-3 RIP-RAP (13.8 X 12) EW-3

R-3 RIP-RAP (13.2 X 18) EW-2

R-3 RIP-RAP (11.2 X 13) EW-1

138 LF 36" RCP (TYPE A) @ 1.59%

131 LF 24" RCP (TYPE A) @ 1.69%

101 LF 24" RCP (TYPE A) @ 4.28%

6" PAVEMENT BASE DRAIN

BASE DRAIN OUTLET

I-1A
TYPE D-H INLET
STA 114+33.38
OFF 28.59' RT
TG 498.52
INV OUT 494.35

I-2A
TYPE D-H INLET
STA 111+95.12
OFF 28.00' RT
TG 490.76
INV OUT 486.59

I-3A
TYPE M INLET
TYPE 2 BOX
W/ STEPS
STA 111+37.47
OFF 28.00' RT
TG 489.29
INV OUT 483.96

EW-1
TYPE DW ENDWALL
STA 113+92.26
OFF 64.60' LT
TW 492.78
INV 490.03

EW-2
TYPE DW ENDWALL
STA 110+93.32
OFF 59.50' LT
TW 487.13
INV 484.38

EW-3
TYPE DW ENDWALL
STA 110+20.15
OFF 46.04' LT
TW 485.52
INV 481.77

LEGEND
- DRAINAGE BOUNDARY
- SPREAD DRAINAGE BOUNDARY
-EL 350.00 - PROPOSED ELEVATION

25' 0' 25' 50'
SCALE IN FEET

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
ROBERT G. RICHARDSON
ENGINEER
No. 44727-E

TRAFFIC PLANNING AND DESIGN, INC.
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HARRISBURG (717)234-1430
SOUTH JERSEY (856)966-4242
WWW.TRAFFICPD.COM

DATE: 10/05/2007 | PROJECT DESIGNER: RJK | JOB NO: CMDI.B.00005

ELEVATION AND DRAINAGE PLAN

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3/27/2009 1:46:51 PM 1:25.0002 jwolfinger

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	MONROE	2023	-	10 OF 11
	SMITHFIELD TOWNSHIP			

REVISION NUMBER	REVISIONS	DATE	BY
1	REVISED PER PENNDOT COMMENT LETTER DATED 11/02/07	2/01/08	RJK
2	REVISED PER PENNDOT COMMENT LETTER DATED 3/18/08	5/28/08	RF
3	REVISED PER PENNDOT COMMENT LETTER DATED 7/22/08	03/24/09	RF

Existing location/new location	SR	Description/ Nomenclature	Sign Type/ Description	Segment	Offset	Width	Height	Ascending/ Descending	Left/Right
RELOCATED	2023	SR/ OFF	SR 2023 OFF 0040	0040	0000			A	R
RELOCATED	2023	W1-1L	LEFT TURN	0040	0126	30"	30"	D	R
RELOCATED	2023	W13-1	ADVISORY SPEED PLAQUE	0040	0126	18"	18"	D	R
NEW	2023	R3-7L	LEFT LANE MUST TURN LEFT	0040	0166	30"	30"	A	R
NEW	2023	R1-1	STOP	0040	0295	30"	30"	I	L
RELOCATED	2023	R2-1	SPEED LIMIT 30 MPH	0040	0473	24"	30"	D	R
RELOCATED	2023	R2-1	SPEED LIMIT 30 MPH	0040	0512	24"	30"	A	R
NEW	2023	R3-7R	RIGHT LANE MUST TURN RIGHT	0040	0557	30"	30"	D	R

LAKE VIEW DRIVE

POE STA 3+66.10

PT STA 2+61.18

N/F
SHAWNEE DEVELOPMENT, INC.

STOP

R1-1 30"X30"
SEG 40/295 I/L

PC STA 0+54.76

51'R

RELOCATED
W1-1L "LEFT ARROW" 30"X30"
W13-1 "25 MPH" SIGNS 18"X18"
SEG 40/126 D/R

ME-73146-62879

40' SHOULDER TAPER
+95 +30

BEGIN 4"/W
STA 108+95.00
OFF 9.69' LT

MATCH EXISTING
STA 109+00.00

REQUIRED RIGHT-OF-WAY

24"/Y
8" C-C @45°

4"/W
4"/DY

PENNDOT LEGAL RIGHT-OF-WAY

20.5'

109 110 111 112 113

5' 11' 12' 11' 6"/W 4"/W 5'

10' 4"/DY

PENNDOT LEGAL RIGHT OF WAY

-62860

BELL/TELE #K22 1/2
GUY/WIRE

RELOCATED 'SR 2023
SEG 40' SEG 40/00 A/R

ME-73143-62879
GUY/WIRE

ME-73150-62882
GUY/WIRE

HOLLOW ROAD (SR 2023)
POSTED SPEED LIMIT 30 MPH

BEGIN 4"/W
STA 108+95.00
OFF 10.76' RT

180' TRANSITION TAPER
+95

75' TAPER
+75

100' LEFT TURN LANE
+50

40' SHOULDER TAPER
+95 +30

LEFT LANE MUST TURN LEFT

R3-7L 30"X30"
SEG 40/166 A/R

N/F
SHAWNEE DEVELOPMENT, INC.

4' 12' 12' 4'

PC STA 1+23.07

4"/DY

RIGHT LANE MUST TURN RIGHT

N/F
SHAWNEE DEVELOPMENT, INC.

R3-7R 30"X30"
SEG 40/557
D/R

END 4"/W
STA 115+41.37
OFF 10.00' LT

+41

100' RIGHT TURN LANE TAPER
+41

200' RIGHT TURN LANE
+37

40' SHOULDER TAPER
+01 +41

PC STA 115+49.87

PT STA 114+02.10

RELOCATED SPEED LIMIT
R2-1 (30) 24"X30"
SEG 40/473 D/R

MATCH EXISTING
STA 116+00.00

REQUIRED RIGHT-OF-WAY

51'R

5' 4"/W
12'
11' 4"/DY
12'
11' 4"/DY
5'

6"/W

PENNDOT LEGAL RIGHT-OF-WAY

24"/Y
8" C-C @45°

114 115 116 117

9.9' 12.6'

4"/DY

6'R

ME-73168-62905
GUY/WIRE
ME-73168-62905

RELOCATED SPEED LIMIT
R2-1 (30) 24"X30"
SEG 40/512 A/R

40' SHOULDER TAPER
+51 +91

END 4"/W
STA 115+91.30
OFF 9.52' RT

POE STA 0+41.17

POB STA 0+00.00

100' TANGENT
+11

180' TRANSITION TAPER
+11 +91

LEGEND

- ▽ - EXISTING SIGN
- ▼ - PROPOSED SIGN

4"/W - 4" WIDTH / SOLID WHITE LINE
4"/DY- 4" WIDTH / DOUBLE YELLOW LINE
6"/W - 6" WIDTH / SOLID WHITE LINE
24"/Y- 24" WIDTH / SOLID YELLOW LINE

UNDER DOT REVIEW
PLANS SUBJECT TO CHANGE
DATE 03/24/09

25' 0' 25' 50'
SCALE IN FEET

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
ROBERT G. RICHARDSON
ENGINEER
No. 44727-E

TRAFFIC PLANNING AND DESIGN, INC.
POTTSTOWN (610)326-3100
LEHIGH VALLEY (610)625-4242
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SOUTH JERSEY (856)966-4242
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DATE:10/05/2007 | PROJECT DESIGNER: RJK | JOB NO: CMDI.B.00005

PAVEMENT MARKING AND SIGNING PLAN

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3/27/2009 11:49:19 PM 11:25.0002 wolfinger

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	MONROE	2023	-	11 OF 11
	SMITHFIELD TOWNSHIP			

REVISION NUMBER	REVISIONS	DATE	BY
1	REVISED PER PENNDOT COMMENT LETTER DATED 11/02/07	2/01/08	RJK
2	REVISED PER PENNDOT COMMENT LETTER DATED 3/18/08	5/28/08	RF
3	REVISED PER PENNDOT COMMENT LETTER DATED 7/22/08	03/24/09	RF

UNDER DOT REVIEW
PLANS SUBJECT TO CHANGE
DATE 03/24/09

LIMIT OF WORK
STA 108+00.00
SEG 0030 OFF 1876
HOLLOW ROAD (SR 2023)
SMITHFIELD TOWNSHIP
MONROE COUNTY
ADT 5181

LIMIT OF WORK
STA 116+50.00
SEG 0040 OFF 0666
HOLLOW ROAD (SR 2023)
SMITHFIELD TOWNSHIP
MONROE COUNTY
ADT 5181

HOLLOW ROAD (SR 2023)
POSTED SPEED LIMIT 30 MPH

LAKE VIEW DRIVE
STA 112+75.00
SEG 0040 OFF 0291
HOLLOW ROAD (SR 2023)
SMITHFIELD TOWNSHIP
MONROE COUNTY

PENNDOT LEGAL RIGHT-OF-WAY

200′ 0′ 200′ 400′
SCALE IN FEET

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
ROBERT G. RICHARDSON
ENGINEER
No. 44727-E

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SOUTH JERSEY (856)966-4242
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DATE:10/05/2007 | PROJECT DESIGNER: RJK | JOB NO: CMDI.B.00005

PROPOSED CONDITIONS PLAN

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3/27/2009 11:51:28 PM 1:200.001 jwolfinger

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	MONROE	2023	-	2 OF 7
	SMITHFIELD TOWNSHIP			

REVISION NUMBER	REVISIONS	DATE	BY
1	REVISED PER PENNDOT COMMENT LETTER DATED 12/20/07	2/01/08	RJK
2	REVISED PER PENNDOT COMMENT LETTER DATED 3/18/08	4/11/08	RF
3	REVISED PER PENNDOT COMMENT LETTER DATED 7/22/08	9/10/08	RF

LEGEND

- EXISTING SIGN LOCATION - SINGLE POST
- PROPOSED SIGN LOCATION - SINGLE POST
- SIGNING ON TYPE III BARRICADE
- LONG TERM CHANNELIZING DEVICE
- LONG TERM CHANNELIZING DEVICE WITH TYPE C LIGHT
- TRAFFIC PATTERN
- AREA UNDER CONSTRUCTION
- TEMPORARY IMPACT ATTENTUATING DEVICE TYPE 5 TEST LEVEL 2
- TEMPORARY CONCRETE BARRIER (FOR DELINIATION OF BARRIER, REFER TO TC-8604)

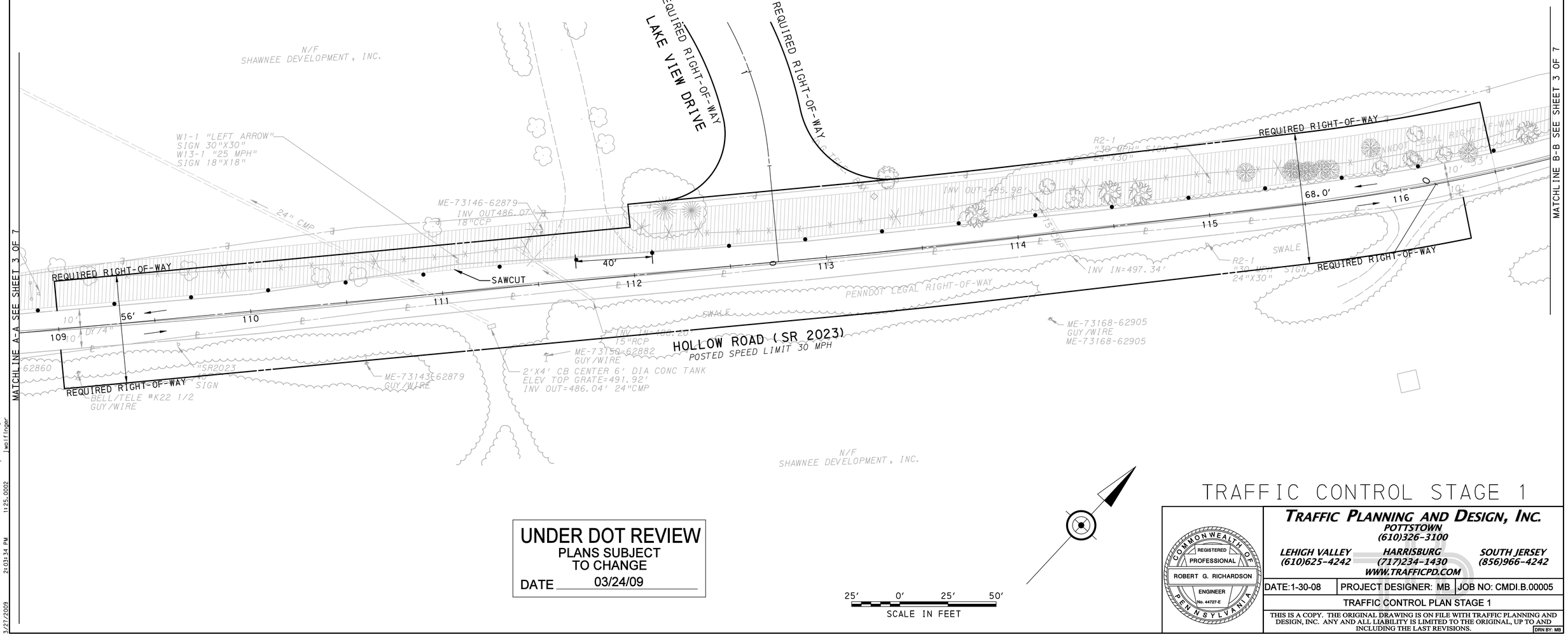
TDY/4" TEMPORARY PAVEMENT MARKINGS, PAINT AND BEADS, DOUBLE YELLOW, 4"

TW/6" TEMPORARY PAVEMENT MARKINGS, PAINT AND BEADS, WHITE 6" ON BARRIER

TW/4" TEMPORARY PAVEMENT MARKINGS, PAINT AND BEADS, WHITE, 4"

Y/4" EXISTING PAVEMENT MARKINGS, PAINT AND BEADS, YELLOW, 4"

W/4" EXISTING PAVEMENT MARKINGS, PAINT AND BEADS, WHITE, 4"



UNDER DOT REVIEW
PLANS SUBJECT TO CHANGE
DATE 03/24/09

25' 0' 25' 50'
SCALE IN FEET

TRAFFIC CONTROL STAGE 1

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
ROBERT G. RICHARDSON
ENGINEER
No. 44727-E

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SOUTH JERSEY (856)966-4242
WWW.TRAFFICPD.COM

DATE:1-30-08 | PROJECT DESIGNER: MB | JOB NO: CMDI.B.00005

TRAFFIC CONTROL PLAN STAGE 1

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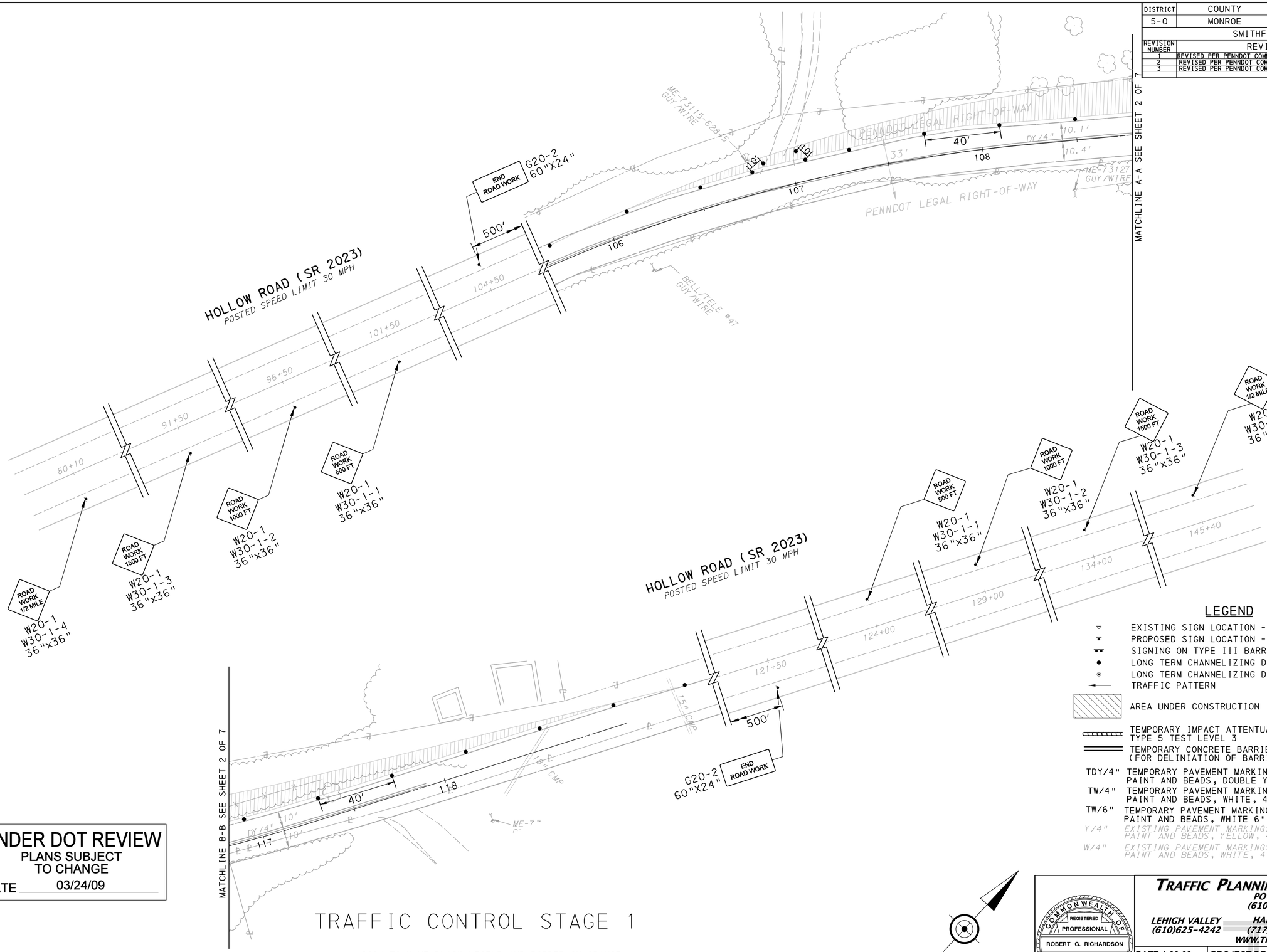
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	MONROE	2023	-	3 OF 7
	SMITHFIELD TOWNSHIP			

REVISION NUMBER	REVISIONS	DATE	BY
1	REVISED PER PENNDOT COMMENT LETTER DATED 12/20/07	2/01/08	RJK
2	REVISED PER PENNDOT COMMENT LETTER DATED 3/18/08	4/11/08	RF
3	REVISED PER PENNDOT COMMENT LETTER DATED 7/22/08	9/10/08	RF



LEGEND

- EXISTING SIGN LOCATION - SINGLE POST
- PROPOSED SIGN LOCATION - SINGLE POST
- SIGNING ON TYPE III BARRICADE
- LONG TERM CHANNELIZING DEVICE
- LONG TERM CHANNELIZING DEVICE WITH TYPE C LIGHT
- TRAFFIC PATTERN
- AREA UNDER CONSTRUCTION
- TEMPORARY IMPACT ATTENTUATING DEVICE TYPE 5 TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER (FOR DELINIATION OF BARRIER, REFER TO TC-8604)
- TDY/4" TEMPORARY PAVEMENT MARKINGS, PAINT AND BEADS, DOUBLE YELLOW, 4"
- TW/4" TEMPORARY PAVEMENT MARKINGS, PAINT AND BEADS, WHITE, 4"
- TW/6" TEMPORARY PAVEMENT MARKINGS, PAINT AND BEADS, WHITE 6" ON BARRIER
- Y/4" EXISTING PAVEMENT MARKINGS, PAINT AND BEADS, YELLOW, 4"
- W/4" EXISTING PAVEMENT MARKINGS, PAINT AND BEADS, WHITE, 4"

UNDER DOT REVIEW
PLANS SUBJECT TO CHANGE
DATE 03/24/09

TRAFFIC CONTROL STAGE 1

* SIGN TO HAVE BLACK LEGEND AND BORDER ON ORANGE RETROREFLECTIVE BACKGROUND. SEE PENNDOT PUB. 236M FOR FARBICATION DETAILS

25' 0' 25' 50'
SCALE IN FEET

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
ROBERT G. RICHARDSON
ENGINEER
No. 44727-E

TRAFFIC PLANNING AND DESIGN, INC.
POTTSTOWN (610)326-3100
LEHIGH VALLEY (610)625-4242
HARRISBURG (717)234-1430
SOUTH JERSEY (856)966-4242
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	MONROE	2023	-	4 OF 7
	SMITHFIELD TOWNSHIP			

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TW/6" TEMPORARY PAVEMENT MARKINGS, PAINT AND BEADS, WHITE 6" ON BARRIER

Y/4" EXISTING PAVEMENT MARKINGS, PAINT AND BEADS, YELLOW, 4"

W/4" EXISTING PAVEMENT MARKINGS, PAINT AND BEADS, WHITE, 4"

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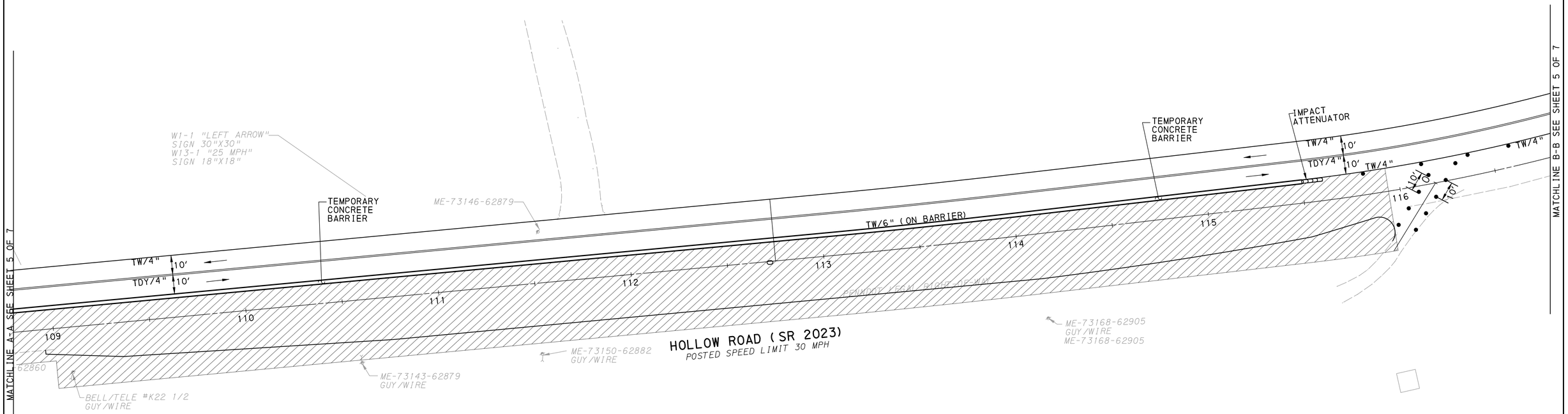
DATE 03/24/09



TRAFFIC CONTROL STAGE 2

25' 0' 25' 50'
SCALE IN FEET

REMOVE ALL CONFLICTING PAVEMENT MARKINGS AND SIGNS

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	MONROE	2023	-	5 OF 7
	SMITHFIELD TOWNSHIP			

REVISION NUMBER	REVISIONS	DATE	BY
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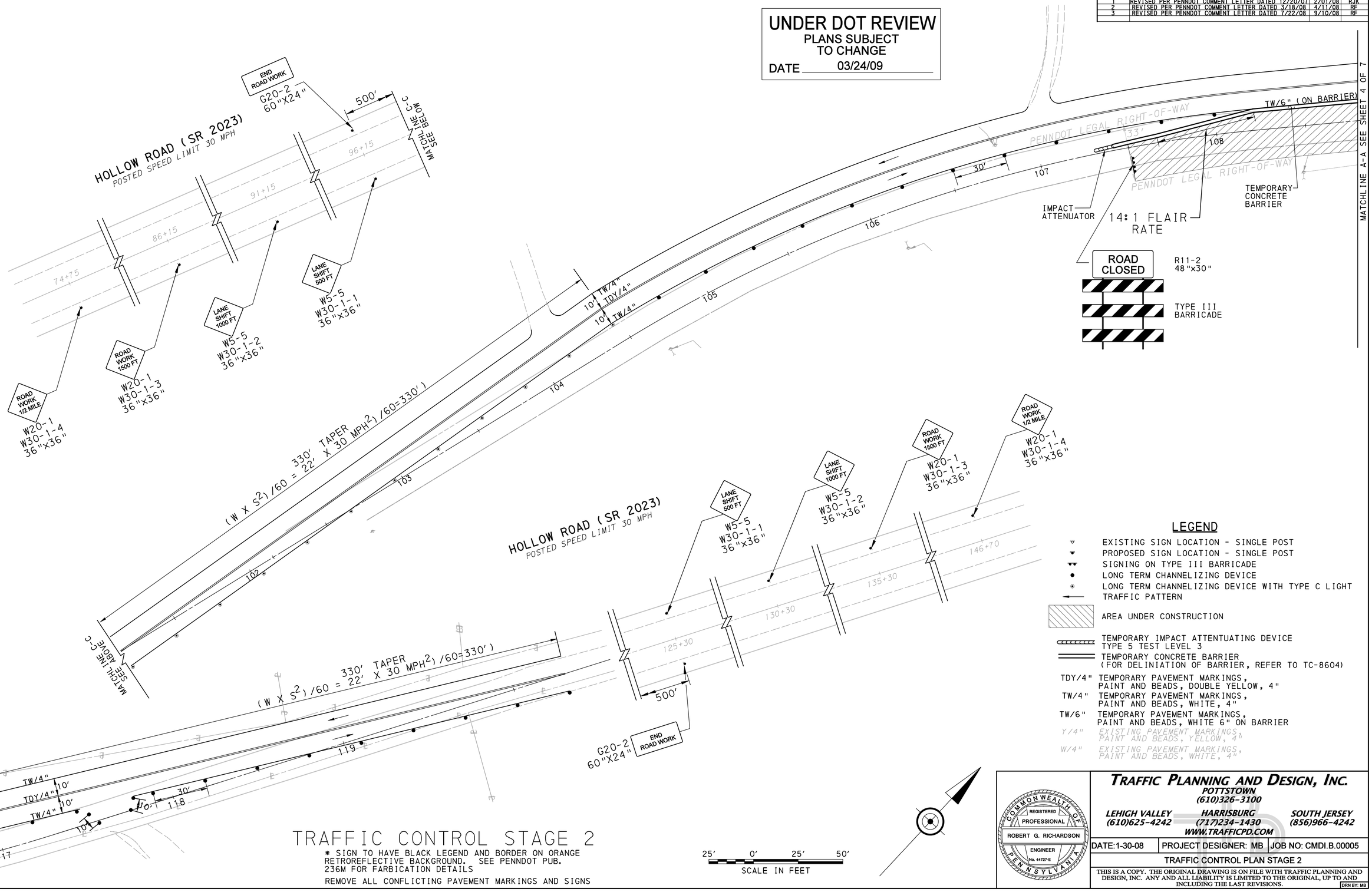

LEGEND

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- PROPOSED SIGN LOCATION - SINGLE POST
- SIGNING ON TYPE III BARRICADE
- LONG TERM CHANNELIZING DEVICE
- LONG TERM CHANNELIZING DEVICE WITH TYPE C LIGHT
- TRAFFIC PATTERN
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- TEMPORARY CONCRETE BARRIER (FOR DELINIATION OF BARRIER, REFER TO TC-8604)

TDY/4"	TEMPORARY PAVEMENT MARKINGS, PAINT AND BEADS, DOUBLE YELLOW, 4"
TW/4"	TEMPORARY PAVEMENT MARKINGS, PAINT AND BEADS, WHITE, 4"
TW/6"	TEMPORARY PAVEMENT MARKINGS, PAINT AND BEADS, WHITE 6" ON BARRIER
Y/4"	*EXISTING PAVEMENT MARKINGS, PAINT AND BEADS, YELLOW, 4"*
W/4"	*EXISTING PAVEMENT MARKINGS, PAINT AND BEADS, WHITE, 4"*

TRAFFIC CONTROL STAGE 2

* SIGN TO HAVE BLACK LEGEND AND BORDER ON ORANGE RETROREFLECTIVE BACKGROUND. SEE PENNDOT PUB. 236M FOR FABRICATION DETAILS

REMOVE ALL CONFLICTING PAVEMENT MARKINGS AND SIGNS

25' 0' 25' 50'
SCALE IN FEET

COMMONWEALTH OF PENNSYLVANIA
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	MONROE	2023	-	6 OF 7

SMITHFIELD TOWNSHIP

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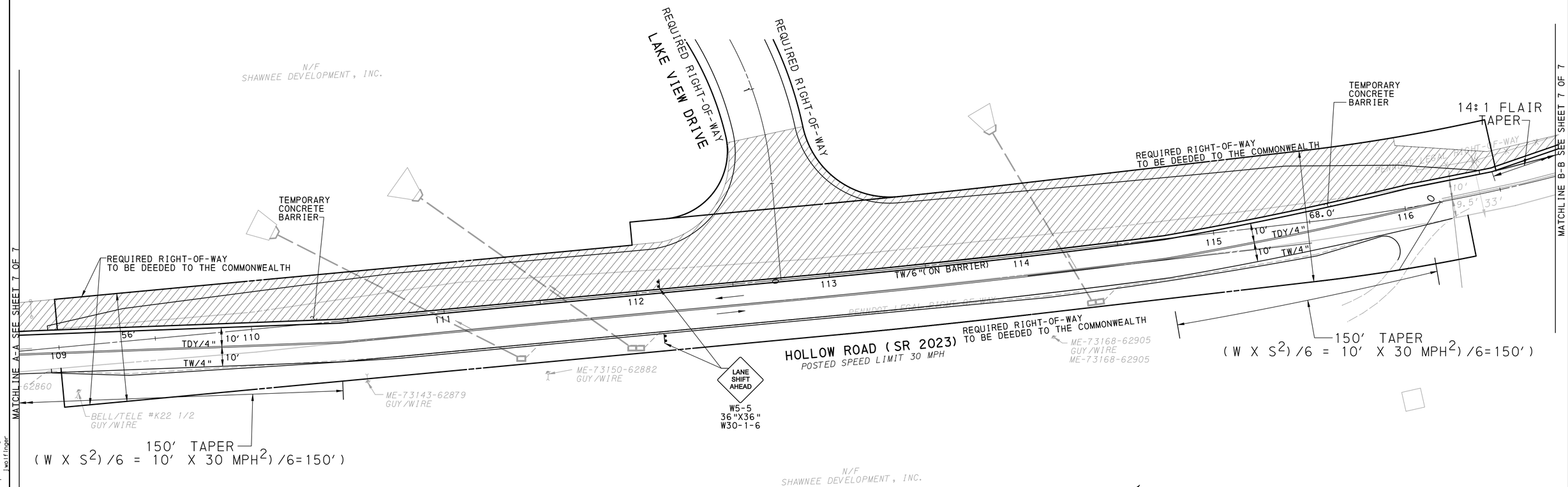
DATE 03/24/09



TRAFFIC CONTROL STAGE 3

25' 0' 25' 50'
SCALE IN FEET

REMOVE ALL CONFLICTING PAVEMENT MARKINGS AND SIGNS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
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TRAFFIC CONTROL PLAN STAGE 3

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	MONROE	2023	-	7 OF 7
	SMITHFIELD TOWNSHIP			

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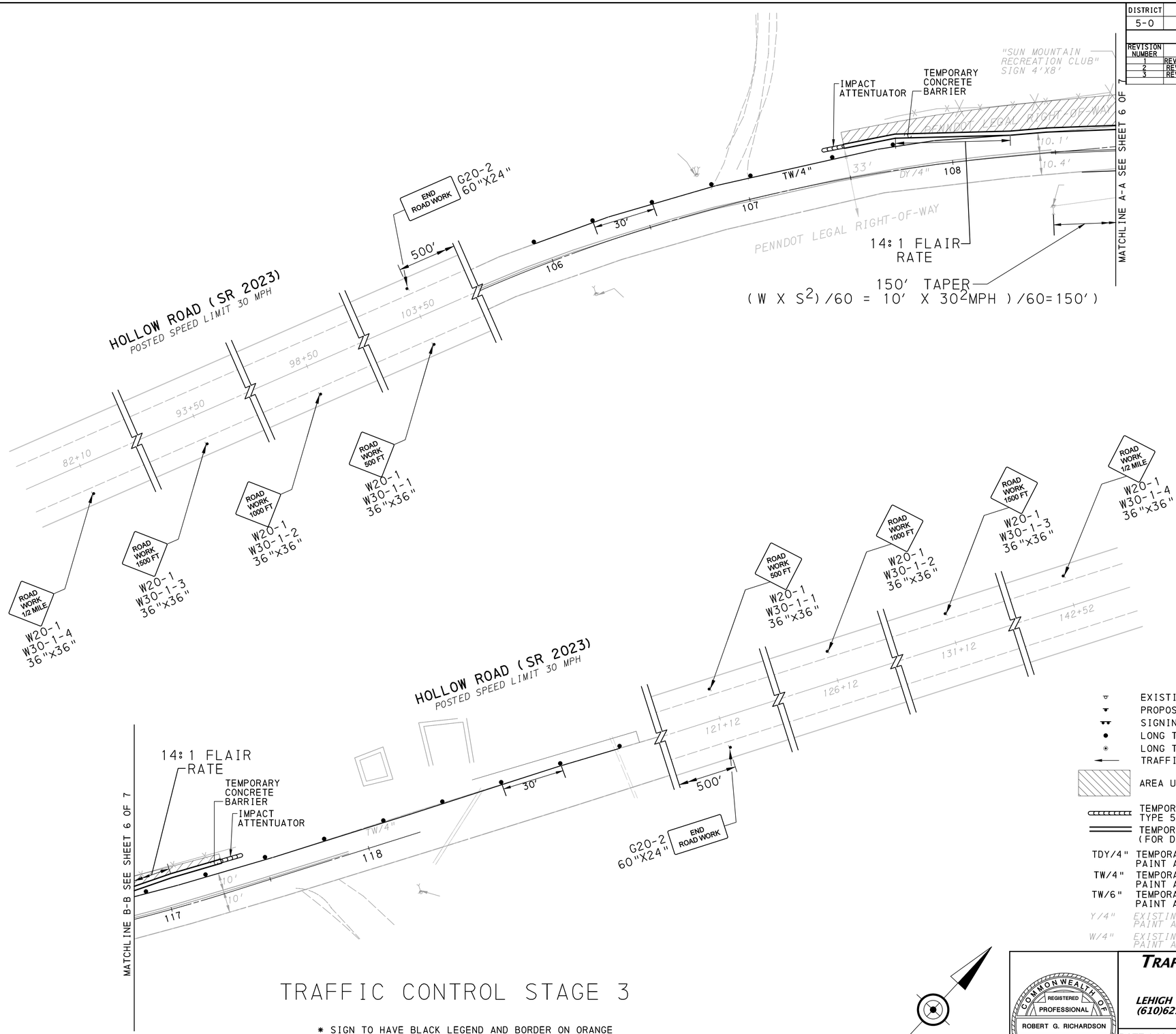

TRAFFIC CONTROL STAGE 3

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25' 0' 25' 50'
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TRAFFIC CONTROL PLAN STAGE 3

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	MONROE	2023	-	1 OF 7
	SMITHFIELD TOWNSHIP			

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TRAFFIC CONTROL GENERAL NOTES

1. FURNISH, INSTALL, MAINTAIN, AND REMOVE ALL TRAFFIC CONTROL DEVICES AS SPECIFIED IN THE TRAFFIC CONTROL PLANS.
2. REQUIRE ALL MAINTENANCE AND PROTECTION OF TRAFFIC DEVICES AND METHODS TO CONFORM WITH THE FOLLOWING DOCUMENTS:

   PA CODE, TITLE 67, PUBLICATION 212 OFFICIAL TRAFFIC CONTROL DEVICES

   COMMONWEALTH OF PENNSYLVANIA, DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, PUBLICATION 408, 2007, OR AS AMENDED.

   WORK ZONE TRAFFIC CONTROL, PUBLICATION 213, (67 PA CODE, CHAPTER 212), FEBRUARY 2008.

   MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, U.S. DEPARTMENT OF TRANSPORTATION, FWHA, 2003.

   TRAFFIC CONTROL, PAVEMENT MARKINGS AND SIGNING STANDARDS, PUBLICATION 111M, MAY 2007.

   STANDARDS FOR ROADWAY CONSTRUCTION, SERIES RC OM TO 100M, PENNDOT PUBLICATION 72M, MARCH 2006, OR AS AMENDED.

   ACCESS TO AND OCCUPANCY OF HIGHWAYS BY DRIVEWAYS AND LOCAL ROADS, 67 PA CODE, CHAPTER 441, AUGUST,1996.

   HANDBOOK OF APPROVED SIGNS, PENNDOT PUBLICATION 236M, JANUARY 2006
3. PROPERLY BARRICADE AND SECURE THE WORK AREA DURING NON-WORKING HOURS TO PROVIDE FULL WIDTH USE FOR THROUGH TRAFFIC LANES UNDER SHORT TERM OPERATIONS. RETURN ALL LANES TO NORMAL TRAFFIC FLOW AT CLOSE OF WORKDAY.
4. MAINTAIN ACCESS TO ALL PRIVATE DRIVEWAYS AND MUNICIPAL ROADS DURING CONSTRUCTION.
5. PROTECT ANY EXCAVATIONS, OBSTRUCTIONS, OR CONSTRUCTION SO AS NOT TO EXPOSE ANY PEDESTRIAN TO HAZARDS.
6. DO NOT PARK ANY PERSONNEL VEHICLES WITHIN THE HIGHWAY RIGHT OF WAY WITHOUT PERMISSION OF THE INSPECTOR IN CHARGE.
7. EXISTING DEPARTMENT SIGNS. REMOVE EXISTING WARNING, REGULATORY, GUIDE, AND DIRECTIONAL SIGNS AS REQUIRED TO ACCOMMODATE CONSTRUCTION OPERATION. DO NOT REMOVE STOP OR YIELD SIGNS UNLESS AN ALTERNATE TYPE OF TRAFFIC CONTROL IS PROVIDED, SUCH AS FLAGGERS, TEMPORARY TRAFFIC SIGNALS, ETC. CONTINUE THE ALTERNATE TRAFFIC CONTROL UNTIL THE STOP AND/OR YIELD SIGN ARE REPLACED. SPEED LIMIT AND WARNING SIGNS NEED TO BE RELOCATED UNLESS THEY ARE ALL COUNTED AS PART OF THE PLAN.
8. STAKE OR MARK SIGN LOCATIONS OR LOCATE SIGNS ON CONSTRUCTION DRAWINGS BEFORE REMOVING ANY SIGNS. REINSTALL EXISTING WARNING SIGNS AT APPROPRIATE LOCATIONS WITHIN 4 HOURS OF THEIR REMOVAL. WITH THE EXCEPTION OF STOP OR YIELD SIGNS AS HEREIN NOTED, REINSTALL EXISTING REGULATORY, GUIDE, AND DIRECTIONAL SIGNS AT APPROPRIATE LOCATIONS WITHIN 24 HOURS OF THEIR REMOVAL.
9. THE CHOSEN CONTRACTOR SHALL ESTABLISH A NAME AND PHONE NUMBER FOR THE PERSON RESPONSIBLE FOR TRAFFIC PROTECTION (24 HOURS).
10. REPLACE IN KIND ALL SIGNS OR POSTS DAMAGED DURING REMOVAL OR REINSTALLATION.
11. PROVIDE DROP-OFF PROTECTION IN ACCORDANCE WITH PUBLICATION 408, SECTION 901.3 (J).
12. THE PROPOSED DRIVEWAY ON SR 2023 SHALL BE CLOSED WITH "ROAD CLOSED" SIGNS ON TYPE III BARRICADES AND BARRELS UNTIL THE DRIVEWAY(S) ARE READY TO BE OPENED.
13. MPT FIGURE PATA 7 MAY ONLY BE UTILIZED IF THERE IS ADEQUATE PAVEMENT WIDTH AND / OR SITE FRONTAGE AVAILABLE TO MAINTAIN THE MINIMUM TRAVEL WIDTHS (10') AND AT THE DISCRETION OF A PENNDOT FIELD REPRESENTATIVE.
14. MOUNT ALL SIGNS ON TYPE III BARRICADES, UNLESS NOTED OTHERWISE OR DIRECTED.

SEQUENCE OF CONSTRUCTION

STAGE 1

NOTIFY SMITHFIELD TOWNSHIP OFFICIALS AT (570) 421-6931 AND PENNDOT DISTRICT 5-0 PRESS OFFICE AT (610) 871-4555 A MINIMUM OF SEVEN (7) DAYS PRIOR TO START OF WORK.

INSTALL CHANNELIZING DEVICES, AND ADVANCE SIGNING IN ACCORDANCE WITH PENNDOT PUBLICATION 213, PUBLICATION 408/2007 AND THE APPROVED TRAFFIC CONTROL PLANS.

INSTALL EMBANKMENT AND TEMPORARY PAVEMENT ON THE NORTH SIDE OF SR 2023.

REMOVE TRAFFIC CONTROL DEVICES UPON COMPLETION OF STAGE 1 WORK.

STAGE 2

INSTALL CHANNELIZING DEVICES, PAINT MARKINGS, TEMPORARY CONCRETE BARRIER TEMPORARY ATTENUATING DEVICES AND ADVANCE SIGNING IN ACCORDANCE WITH PENNDOT PUBLICATION 213, PUBLICATION 408/2007 AND THE APPROVED TRAFFIC CONTROL PLANS. END TEMPORARY CONCRETE BARRIER AND INSTALL ATTENUATING DEVICES AT STATION 115+75 TO MAINTAIN DRIVEWAY SIGHT DISTANCE.

REMOVE CONFLICTING PAVEMENT MARKINGS AS DIRECTED BY THE PENNDOT INSPECTOR OR AS INDICATED ON THE APPROVED TRAFFIC CONTROL PLANS.

SHIFT TRAFFIC TO THE NORTH SIDE OF SR 2023 AS INDICATED.

CONSTRUCT ROADWAY IMPROVEMENTS AS INDICATED ON THE APPROVED HIGHWAY OCCUPANCY PERMIT PLANS ALONG THE SOUTH SIDE OF SR 2023 IN THE AREAS INDICATED.

REMOVE TRAFFIC CONTROL DEVICES UPON COMPLETION OF STAGE 2 WORK.

BACKFILL BETWEEN STA 115+60.82 TO STA 115+83.92 AREA AT THE END OF EACH WORK DAY IN ACCORDANCE WITH SECTION 901.3(j)

STAGE 3

INSTALL CHANNELIZING DEVICES, PAINT MARKINGS, TEMPORARY CONCRETE BARRIER TEMPORARY ATTENUATING DEVICES AND ADVANCE SIGNING IN ACCORDANCE WITH PENNDOT PUBLICATION 213, PUBLICATION 408/2007 AND THE APPROVED TRAFFIC CONTROL PLANS.

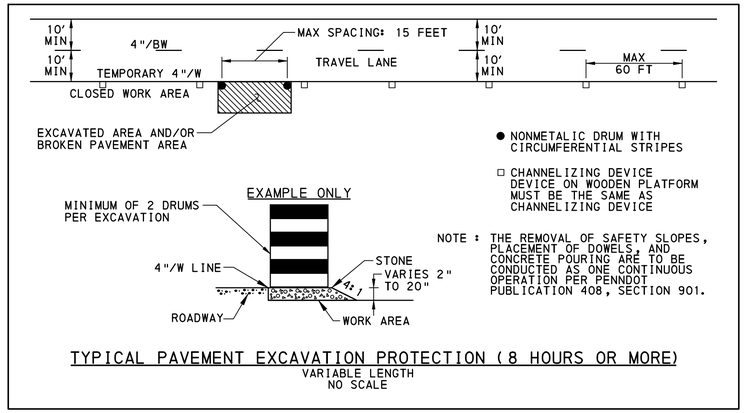
REMOVE CONFLICTING PAVEMENT MARKINGS AS DIRECTED BY THE PENNDOT INSPECTOR OR AS INDICATED ON THE APPROVED TRAFFIC CONTROL PLANS.

SHIFT TRAFFIC TO THE SOUTH SIDE OF SR 2023 AS INDICATED.

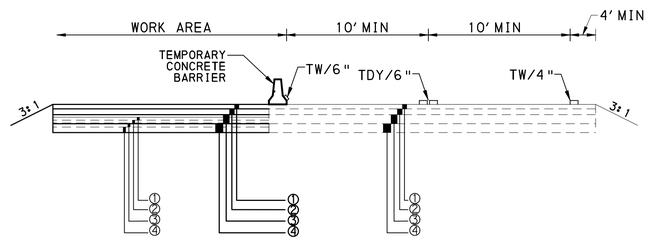
CONSTRUCT ROADWAY IMPROVEMENTS AS INDICATED ON THE APPROVED HIGHWAY OCCUPANCY PERMIT PLANS ALONG THE NORTH SIDE OF SR 2023 IN THE AREAS INDICATED.

REMOVE TRAFFIC CONTROL DEVICES UPON COMPLETION OF STAGE 3 WORK.

UNDER DOT REVIEW
PLANS SUBJECT TO CHANGE
DATE 03/24/09

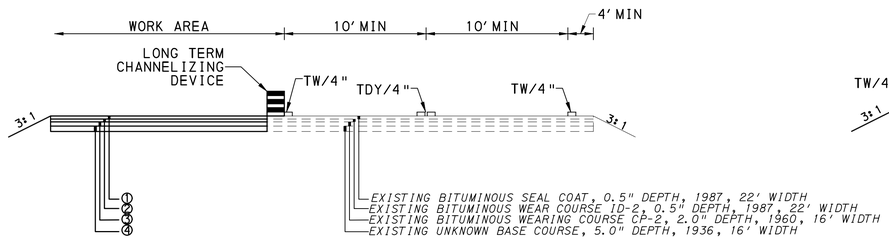


TYPICAL PAVEMENT EXCAVATION PROTECTION (8 HOURS OR MORE)
VARIABLE LENGTH
NO SCALE

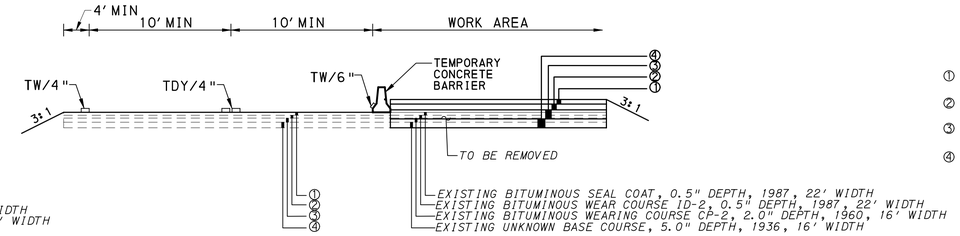


TYPICAL WORK AREA SECTION
STAGE 3
(NOT TO SCALE)

① SUPERPAVE ASPHALT MIXTURE DESIGN, HMA WEARING COURSE, PG 64-22, 0 TO < 0.3 MILLION ESALS, 9.5 MM MIX, 1.5" DEPTH,SRL-H
② SUPERPAVE ASPHALT MIXTURE DESIGN, HMA BINDER COURSE, PG 64-22, 0 TO < 0.3 MILLION ESALS, 19.0 MM MIX, 2.5" DEPTH
③ SUPERPAVE ASPHALT MIXTURE DESIGN, HMA BASE COURSE, PG 64-22, 0 TO < 0.3 MILLION ESALs, 25.0 MM MIX, 4" DEPTH
④ 6" 2A SUBBASE



TYPICAL WORK AREA SECTION
STAGE 1
(NOT TO SCALE)



TYPICAL WORK AREA SECTION
STAGE 2
(NOT TO SCALE)

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WORK ZONE AND TRAFFIC CONTROL PLAN

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

DIST	COUNTY	ROUTE	SECT	PRELIM BK NO	FINAL BK NO	SHEET NO
5-0	MONROE	2023	-			1 of 6

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

RROW LROW LROW RROW

5' SHOULDER | 3.7' GORE | 5' SHOULDER
4' | 11' THRU LANE | 11' THRU LANE | 4'

ELEV 483.78 OFF 17.49'
ELEV 484.08 OFF 12.49'
ELEV 484.39 OFF 9.28'
ELEV 484.58
ELEV 484.32 OFF 13.19'
ELEV 484.02 OFF 18.19'
6.00% 4.00% 2.00% 6.00%
3:1 3:1

CONSTR ℄ SR 2023

109+50
485

RROW LROW LROW RROW

2' SHOULDER | 2' SHOULDER
4' | 10' THRU LANE | 11' THRU LANE | 4'

ELEV 481.73 OFF 12.35'
ELEV 481.89 OFF 9.65'
ELEV 482.30 OFF 8.80'
ELEV 482.48
ELEV 482.25 OFF 11.00'
ELEV 482.11 OFF 13.39'
6.00% 6.04% 2.00% 6.00%
3:1 3:1

CONSTR ℄ SR 2023

109+00
480

LROW LROW

9.7' THRU LANE | 10.8' THRU LANE

ELEV 478.95
8.11% 3.21%

CONSTR ℄ SR 2023

108+50
480

UNDER DOT REVIEW
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DATE 03/24/09

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
ROBERT G. RICHARDSON
ENGINEER
No. 44727-E

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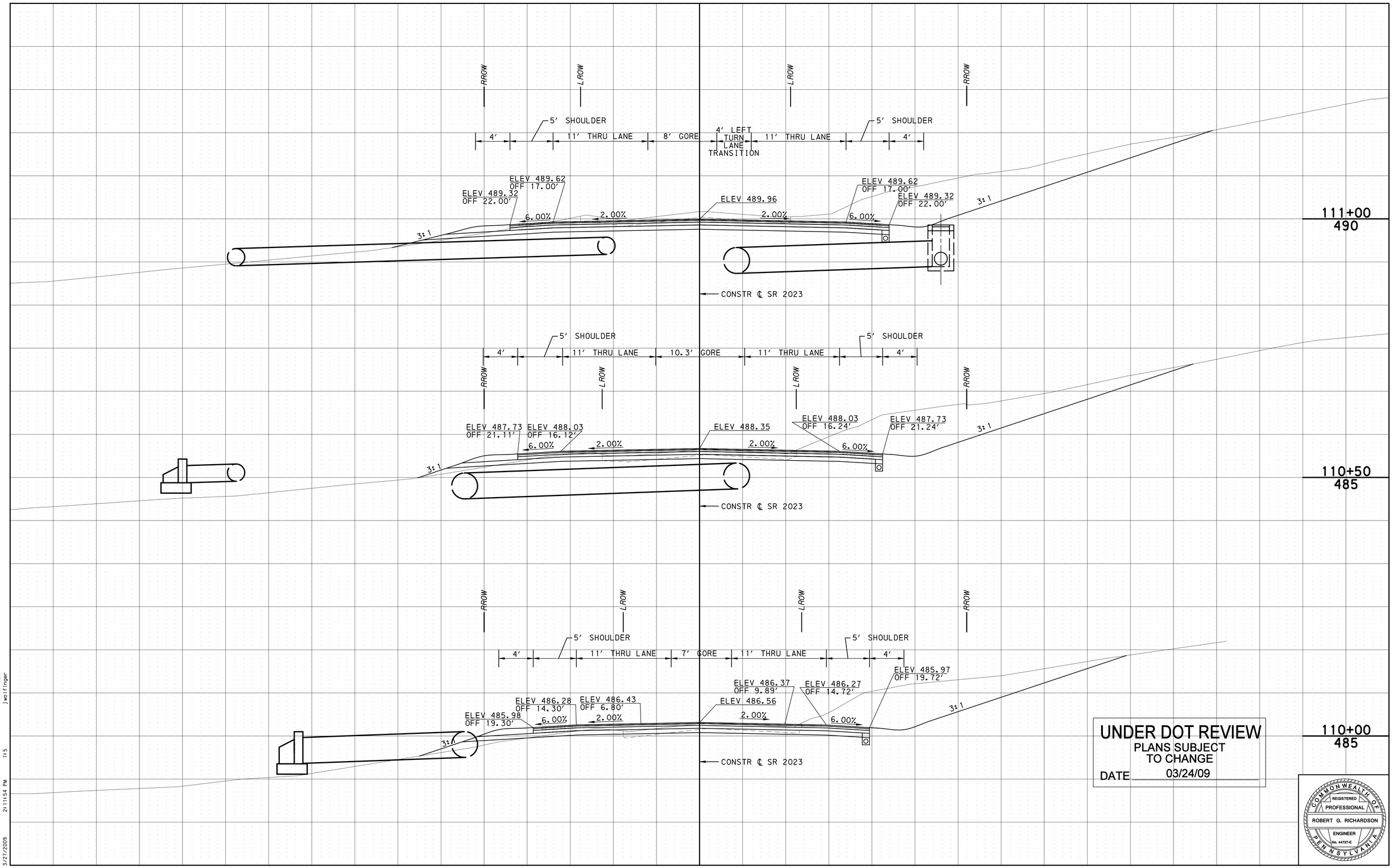
PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS
SCALE: 1 INCH = 5 FEET

DIST	COUNTY	ROUTE	SECT	PRELIM BK NO	FINAL BK NO	SHEET NO
5-0	MONROE	2023	-			2 of 6

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80



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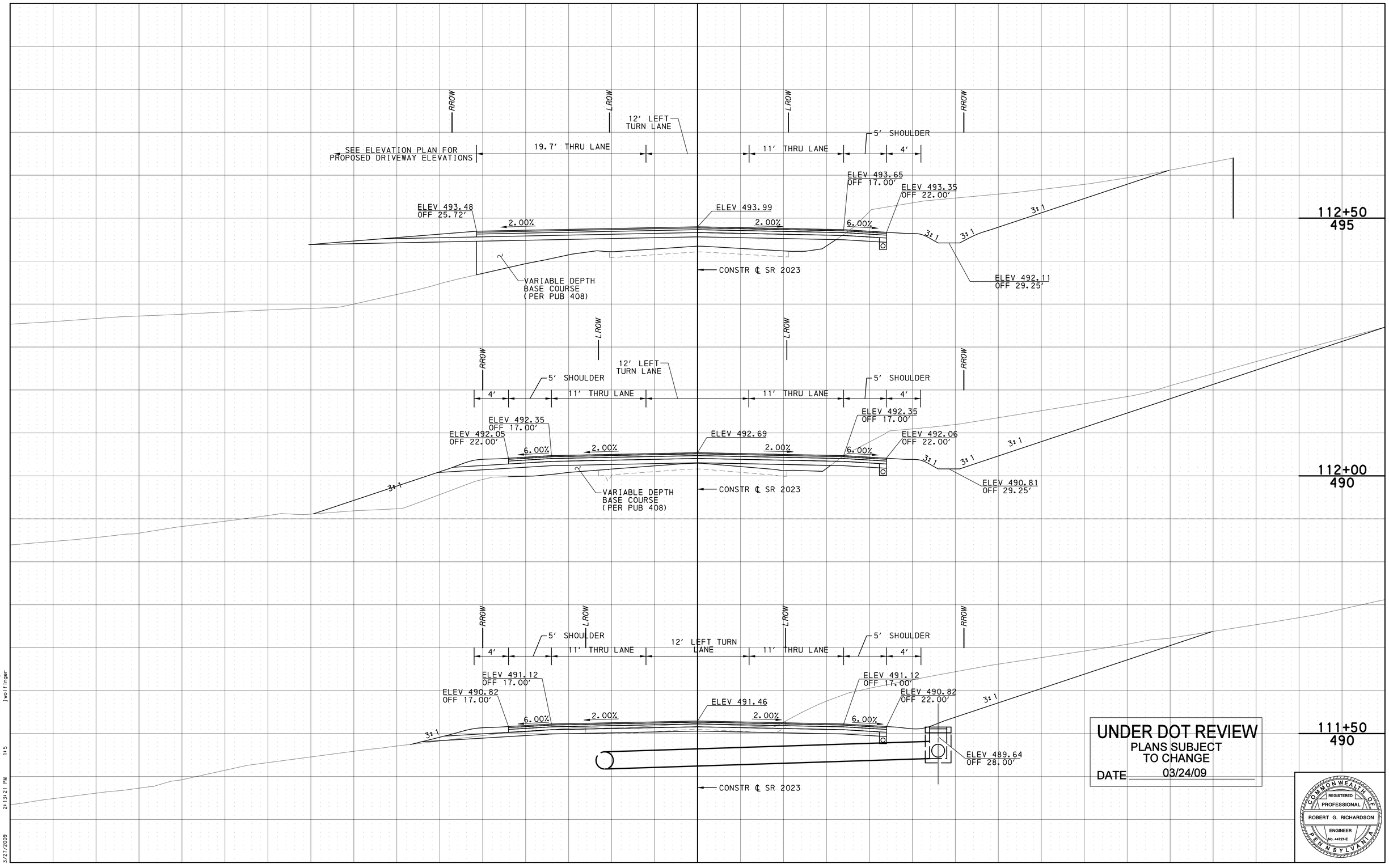
PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS
SCALE: 1 INCH = 5 FEET

DIST	COUNTY	ROUTE	SECT	PRELIM BK NO	FINAL BK NO	SHEET NO
5-0	MONROE	2023	-			3 of 6

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80



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PENNSYLVANIA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1 INCH = 5 FEET

DIST	COUNTY	ROUTE	SECT	PRELIM BK NO	FINAL BK NO	SHEET NO
5-0	MONROE	2023	-			4 of 6

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

114+00 / 500

RROW — 5' SHOULDER — 12' RIGHT TURN LANE — LROW — 11' THRU LANE — 12' GORE — LROW — 11' THRU LANE — 5' SHOULDER — RROW

4' — 4' — 11' — 12' — 11' — 4'

ELEV 498.58 OFF 27.96'
ELEV 498.28 OFF 32.96'
ELEV 499.14
ELEV 498.78 OFF 18.05'
ELEV 498.48 OFF 23.05'
ELEV 497.24 OFF 30.30'

6.00% 2.00% 2.00% 6.00%

3:1 3:1 3:1

VARIABLE DEPTH BASE COURSE (PER PUB 408)

CONSTR ℄ SR 2023 (PER PUB 408)

113+50 / 495

RROW — 5' SHOULDER — 12' RIGHT TURN LANE — LROW — 11' THRU LANE — 12' GORE — LROW — 11' THRU LANE — 5' SHOULDER — RROW

4' — 4' — 11' — 12' — 11' — 4'

ELEV 496.73 OFF 28.75'
ELEV 496.43 OFF 33.75'
ELEV 497.30
ELEV 496.96 OFF 17.25'
ELEV 496.66 OFF 22.25'
ELEV 495.42 OFF 29.50'

6.00% 2.00% 2.00% 6.00%

3:1 3:1 3:1 3:1

VARIABLE DEPTH BASE COURSE (PER PUB 408)

CONSTR ℄ SR 2023

113+00 / 495

RROW — SEE ELEVATION PLAN FOR PROPOSED DRIVEWAY ELEVATIONS — LROW — 23.3' THRU LANE — 12' GORE — LROW — 11' THRU LANE — 5' SHOULDER — RROW

4' — 11' — 12' — 11' — 4'

ELEV 494.92 OFF 30.36'
ELEV 495.53
ELEV 495.19 OFF 17.00'
ELEV 494.89 OFF 22.00'
ELEV 493.65 OFF 29.25'

6.00% 2.00% 2.00% 6.00%

3:1 3:1 3:1

VARIABLE DEPTH BASE COURSE (PER PUB 408)

CONSTR ℄ SR 2023

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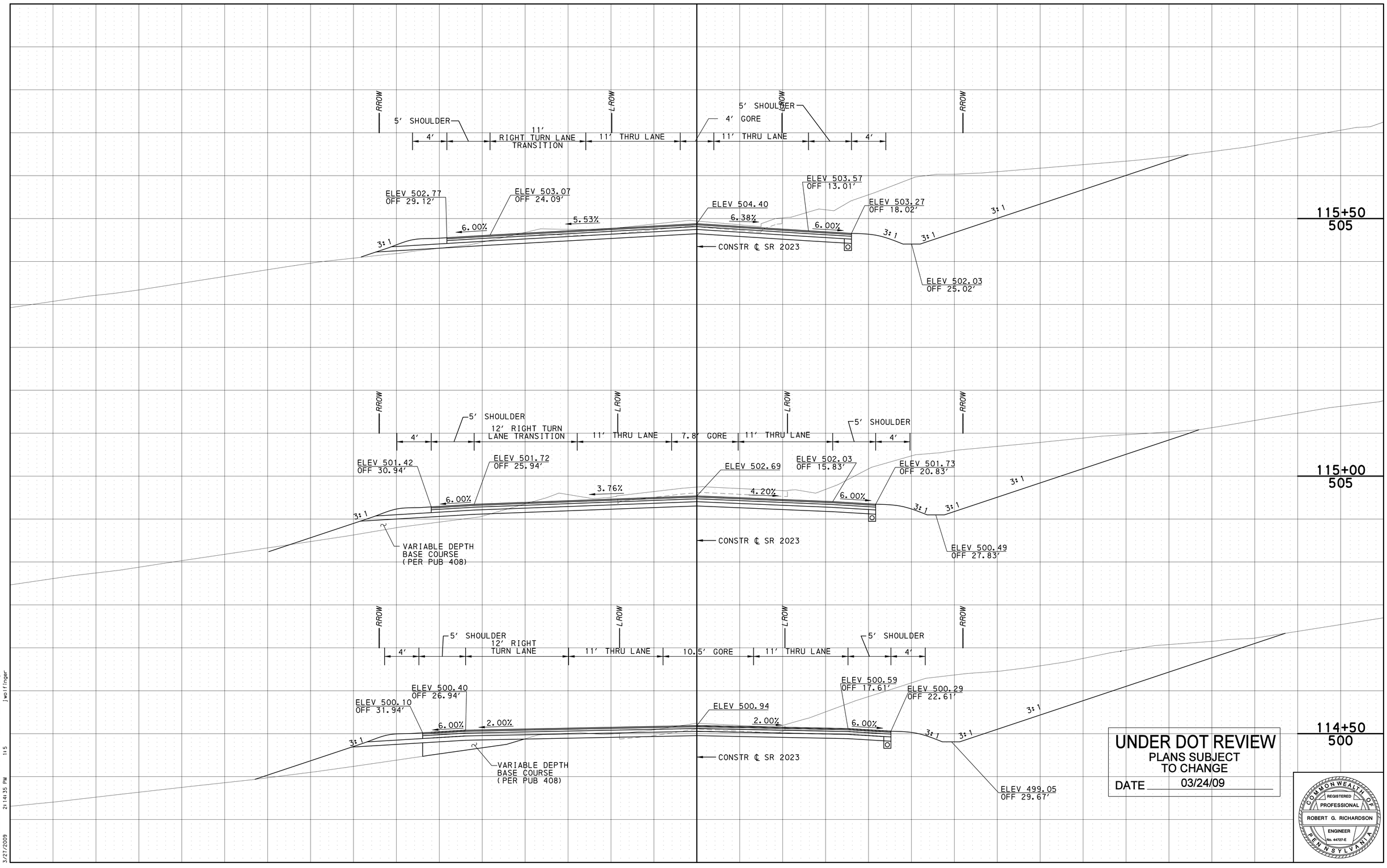
PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS
SCALE: 1 INCH = 5 FEET

DIST	COUNTY	ROUTE	SECT	PRELIM BK NO	FINAL BK NO	SHEET NO
5-0	MONROE	2023	-			5 of 6

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80



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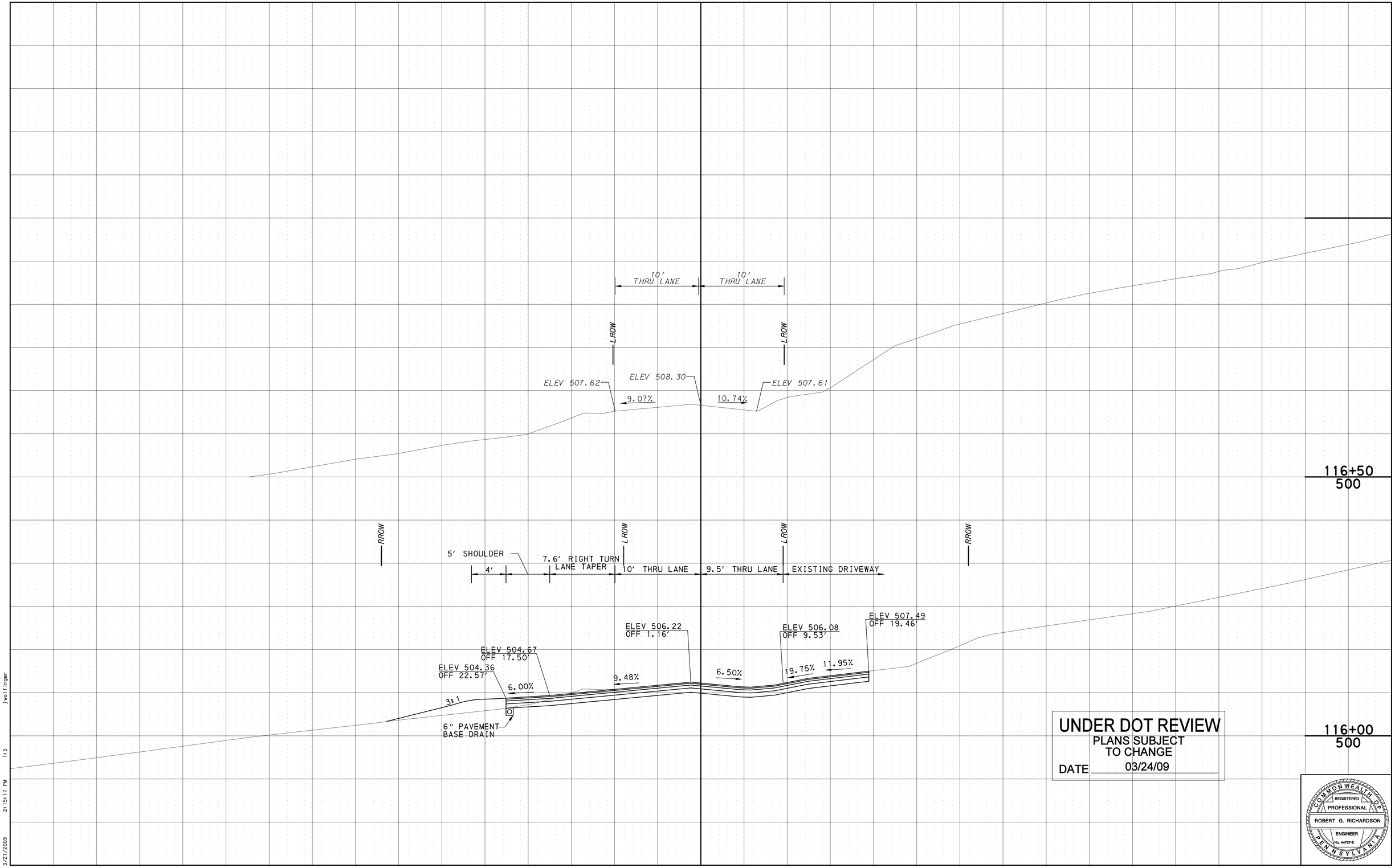
PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS
SCALE: 1 INCH = 5 FEET

DIST	COUNTY	ROUTE	SECT	PRELIM BK NO	FINAL BK NO	SHEET NO
5-0	MONROE	2023	-			6 of 6

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80



116+50
500

116+00
500

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