

6-0	DISTRICT	COUNTY	TOWNSHIP	ROUTE	SECTION	TOTAL SHEETS			
		DELAWARE	RADNOR TOWNSHIP	9900	C28	12			
SYS.	S.R.	or	W.O.	SPUR	PHA	SECTION	DIST.	CO.	
9	0	9	9	0	0	0	7	C 2 8	0 6 5

ALSO INCLUDED: _____

EROSION & SEDIMENT POLLUTION CONTROL PLAN 13 SHEETS

RADNOR TOWNSHIP

DRAWINGS

FOR

CONSTRUCTION

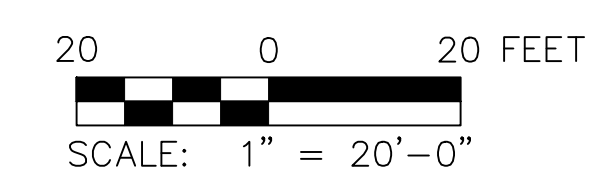
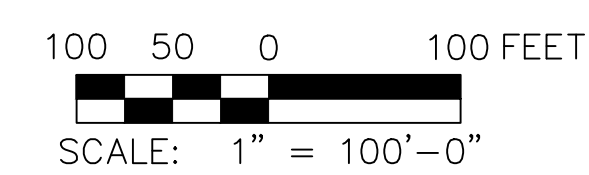
OF

THE RADNOR TRAIL EXTENSION – RADNOR TOWNSHIP MULTI-USE TRAIL

IN DELAWARE COUNTY

FROM STA. 0+00.00 TO STA. 17.96+93 LENGTH 0.34 Miles

SCALES



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PREPARED BY: CAMPBELL THOMAS & CO. 1504 SOUTH STREET PHILADELPHIA, PA. 19146 _____ ARCHITECT _____ DATE	RECOMMENDED	DATE: _____
	_____	DISTRICT EXECUTIVE
	RECOMMENDED	DATE: _____
	_____	DEPUTY SECRETARY
	APPROVED	DATE: _____
	_____	SECRETARY OF TRANSPORTATION (ON BEHALF OF THE GOVERNOR AS WELL AS HIMSELF)

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

CUBIC YARDS OF EXCAVATION

CLASS 1	CLASS 1 SPECIAL	CLASS 1A	CLASS 1B	CLASS 1C	CLASS 2	CLASS 3	CLASS 4	CUBIC YARDS OF COMPLETED EMBANKMENT *	CUBIC YARDS OF BORROW EXCAVATION	CUBIC YARDS OF WASTE
000					-	-				

* INCLUDES ALL BORROW ITEMS

PUBLIC UTILITIES

ADELPHIA ONE APOLLO ROAD P.O. BOX 198 PLYMOUTH MEETING, PA 19462 ATTN MR. JOHN MATTHEWS (610) 943-5450 (610) 943-5487 - FAX	PHILADELPHIA SUBURBAN COMPANY 762 LANCASTER AVENUE BRYN MAWR, PA 19010 ATTN: MR. JOHN RANIERI (610) 525-1400
AT&T COMMUNICATIONS, INC. CABLE PROTECTION CENTER ENGINEERING INQUIRY DESK 2315 SALEM RD.-WALL ST. BUILDING 3 CONYERS, GA 30013 ATTN: MS. DARLENE NORRIS (770) 929-4989	RADNOR TOWNSHIP 301 IVEN AVENUE WAYNE, PA 19087-5297 ATTN: MR. DAVID BASHORE (610) 688-5600 (610) 971-0450 - FAX
PECO ENERGY CO, DELCHESTER REGION 175 NORTH CALN RD. COATESVILLE, PA 19320-2385 ATTN: MR. MATTHEW SWEENEY (610) 380-2537	VERIZON PENNSYLVANIA INC. 180 SHEREE BOULEVARD SUITE 1400 EXTON, PA 19341 ATTN: MS. VICKI TEMPLIN (610) 280-2154

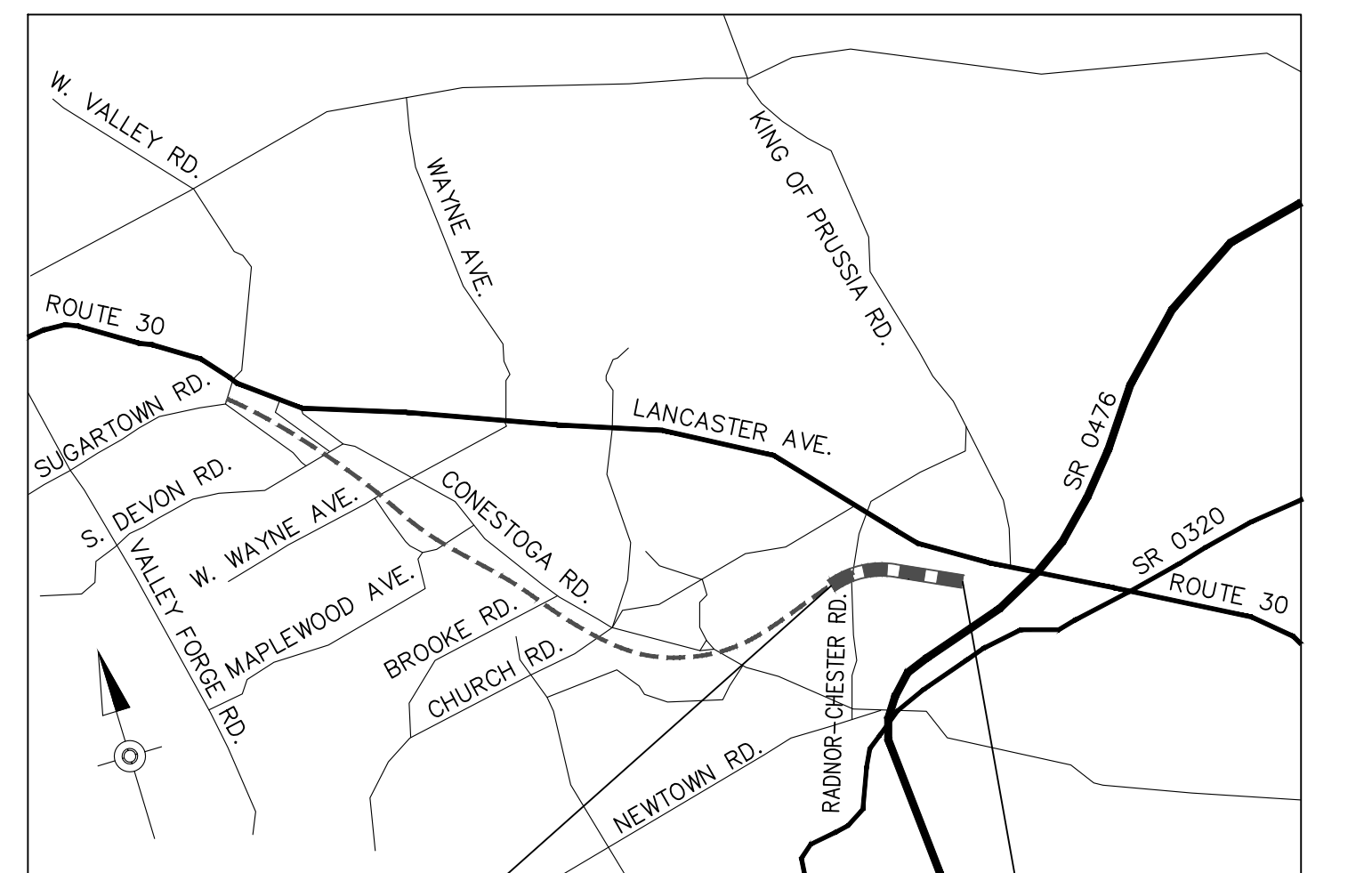
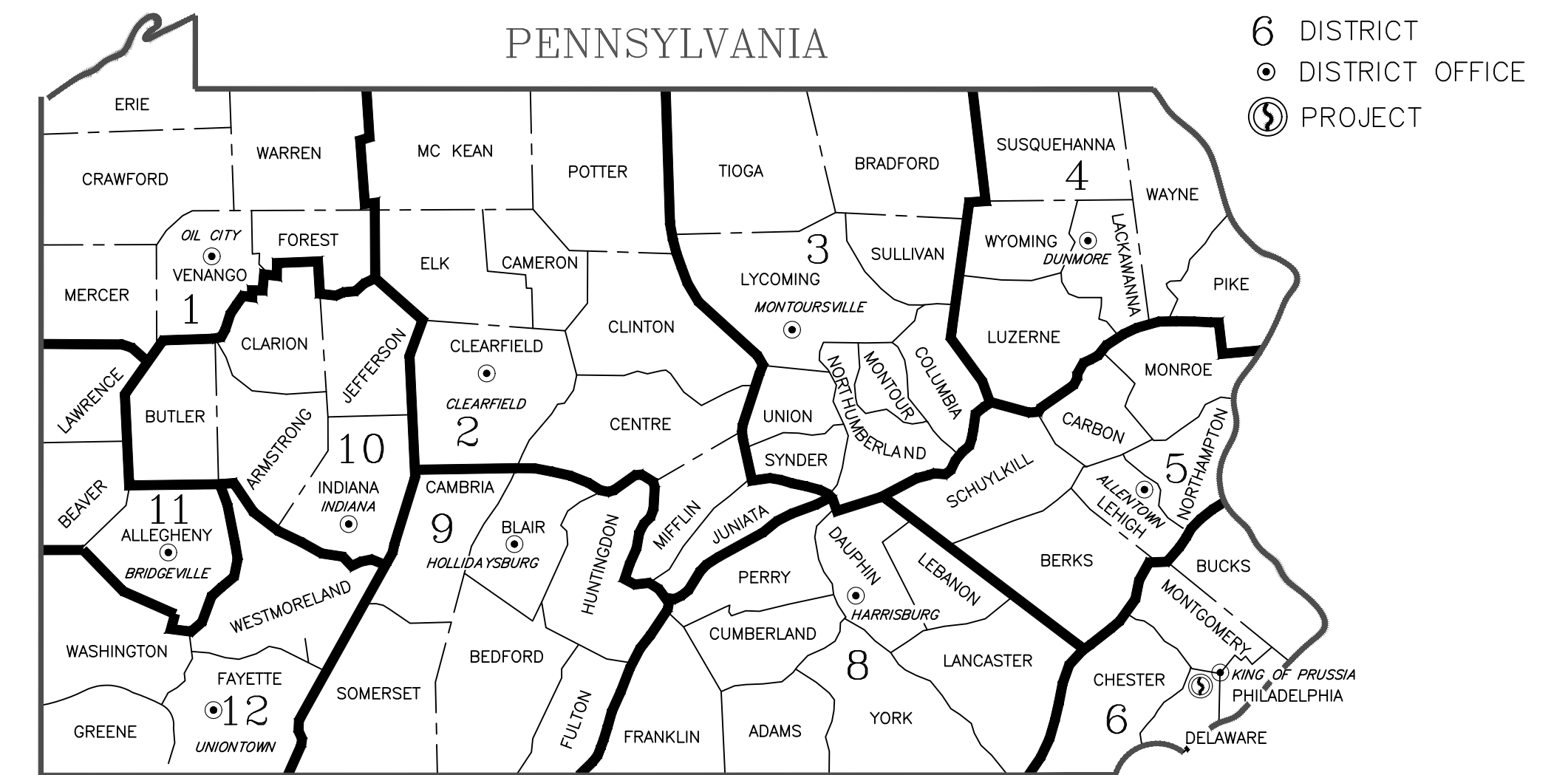
GENERAL NOTES:

1. THE EXTENT, EXACT LOCATION AND DEPTH OF UNDERGROUND UTILITIES HAS NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXTENT AND EXACT LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK. ALL CONTRACTORS ARE CAUTIONED TO COMPLY WITH THE REQUIREMENTS OF PENNSYLVANIA ACT 38. ALL COMPANIES SHOULD BE NOTIFIED THROUGH THE PENNSYLVANIA "ONE CALL" SYSTEM. DIAL 8-1-1 (INSIDE PA) OR 1-800-242-1776 (OUTSIDE PA) PRIOR TO CONSTRUCTION. SERIAL NO. ???-???? HAS BEEN ASSIGNED TO THIS PROJECT.
2. PROVIDE MATERIALS AND CONSTRUCT THIS PROJECT IN ACCORDANCE WITH PUBLICATION 408 DATED 2016.
3. DO NOT INTERFERE WITH THE OPERATION OF ANY FIRE HYDRANT, FIRE CALL BOX OR POLICE CALL BOX.
4. THE CONTRACTOR IS ADVISED THAT ROCKS/BOULDERS OCCUR ON THE SURFACE ALONG THE PROJECT CORRIDOR.
5. VERTICAL DATUM IS NAVD88 AND WAS ESTABLISHED BY GLOBAL POSITIONING SYSTEM (GPS) WITH OBSERVATIONS REFERENCED TO THE KEYNET GPS BASE STATION NETWORK. HORIZONTAL DATUM IS BASED ON THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM (NAD83) ESTABLISHED BY GLOBAL POSITIONING SYSTEM (GPS) WITH OBSERVATIONS REFERENCED TO THE KEYNET GPS BASE STATION NETWORK.

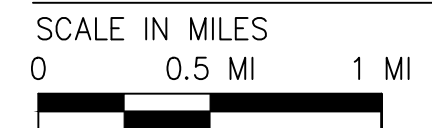
RIGHT OF WAY NOTES:

1. ALL WORK SHALL BE PERFORMED WITHIN THE PENNDOT LEGAL RIGHT OF WAY (MULTI-USE TRAIL R/W) AND THE LEGAL RIGHT OF WAY OF CROSSING/ADJACENT ROADS.
2. THE PENNDOT LEGAL RIGHT OF WAY (MULTI-USE TRAIL R/W) SHOWN IS FROM THE COMMONWEALTH OF PENNSYLVANIA, DEPARTMENT OF HIGHWAYS PLAN "THE ESTABLISHMENT OF, AND CONDEMNATION OF RIGHT OF WAY FOR, LIMITED ACCESS HIGHWAY, ROUTE NO. 791, SECTION NO. C", APPROVED ON NOVEMBER 25, 1955 (REVISED MARCH 6, 1956) AND RECORDED IN HIGHWAY PLAN BOOK NO. 2, PAGE 24. THE R/W WIDTH VARIES.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	DELAWARE			2 OF 12	
RADNOR TOWNSHIP					
REVISION NUMBER	REVISIONS			DATE	BY



LOCATION MAP



- STATE HIGHWAY
- TOWNSHIP RD.
- - - EXISTING RADNOR TRAIL
- PROJECT LOCATION - RADNOR TRAIL EXT.

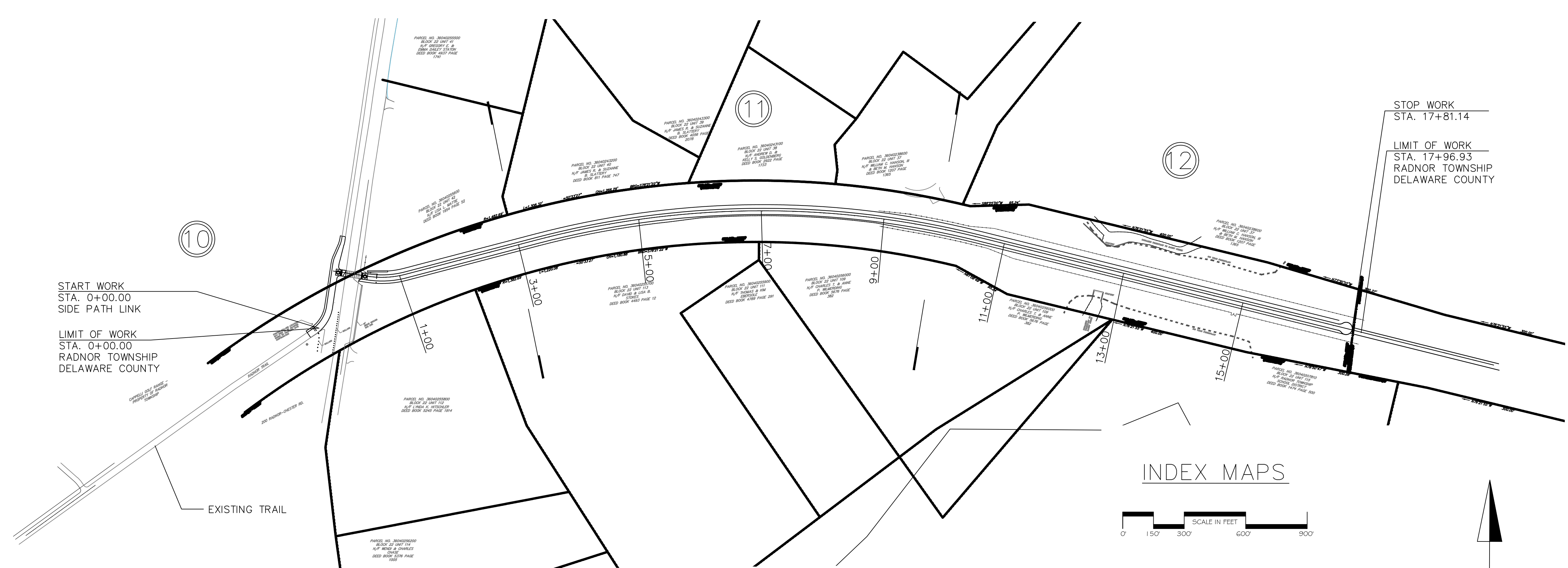
SHEET INDEX

DESCRIPTION	SHEET
TITLE SHEET	1
INDEX MAP	2 TO 3
TYPICAL SECTION/DETAIL SHEETS	4 TO 8
PLAN SHEETS	9 TO 11

PLAN LEGEND

PROPOSED	EXISTING
MINOR 2' CONTOUR	1188
MAJOR 2' CONTOUR	1190
EDGE OF TRAIL SURFACE	
TRAIL CENTERLINE	
EDGE OF TRAIL SHOULDER	
FENCE	
CONCRETE SIDEWALK	
RIP-RAP	
STORMWATER PIPE / STRUCTURE	
GATE, GATE POSTS AND FIXED BOLLARDS	
BOULDER	
DITCH REHABILITATION	
	TREELINE
	SPECIMEN TREE
	EDGE OF PAVEMENT
	ROADWAY CENTERLINE
	RIGHT-OF-WAY / PROPERTY BOUNDARY
	MUNICIPAL BOUNDARY
	WATERCOURSE / POND
	MINOR 2' CONTOUR
	MAJOR 2' CONTOUR
	100 YEAR FLOODPLAIN
	GUIDERAIL
	FENCE
	STORMWATER PIPE / STRUCTURE

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	DELAWARE			3 OF 12	
RADNOR TOWNSHIP					
REVISION NUMBER	REVISIONS			DATE	BY



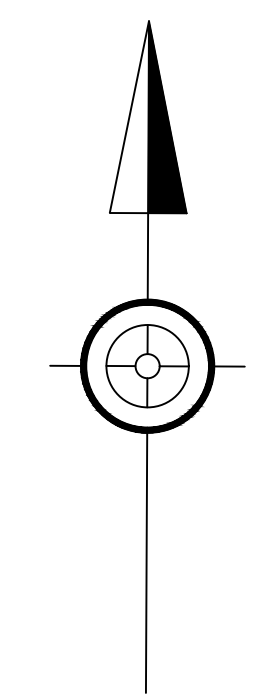
INDEX MAPS



LEGEND

③ PLANVIEW AND SHEET NUMBER

— SHEET BREAK



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CALL BEFORE YOU DIG! IT'S THE LAW
PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS
NOTICE FOR CONSTRUCTION PHASE AND 10 DAYS
IN DESIGN STAGE - STOP CALL
PENNSYLVANIA ONE CALL SYSTEM, INC.
1-800-242-1776
USGS/DOI Uniform Color Code Using ANSI Standard 251.1 Safety Colors FOR TEMPORARY MARKINGS of Underground Facilities

PROJECT SERIAL NO.: 20202962246

CT & C Campbell Thomas & Co.
 1504 South Street, Philadelphia, PA
 Architecture - Preservation - Community & Transportation Planning
 Phone: 215-545-1076 - Website: www.campbellthomas.com

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE			4 OF 12
RADNOR TOWNSHIP				
REVISION NUMBER	REVISIONS			DATE BY

GENERAL NOTES:

- THE LEGAL RIGHT-OF-WAY FOR THE TRAIL PROJECT IS VARIABLE AS SHOWN ON THE PLANS.
- TRAIL DEVELOPMENT AND THE LIMIT OF WORK IS CONFINED TO THE LIMITS OF THE PUBLIC OR LEGAL RIGHT-OF-WAY AND LANDS OTHERWISE IN POSSESSION OR UNDER CLEARANCE OR EASEMENT BY RADNOR TOWNSHIP.
- THE CONTRACTOR SHALL CONTACT THE DELAWARE COUNTY CONSERVATION DISTRICT 72 HOURS PRIOR TO BEGINNING CONSTRUCTION AND 72 HOURS PRIOR TO COMPLETING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR CONSTRUCTION PRIOR TO BEGINNING WORK.
- THREE WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT PA ONE CALL SYSTEM, INC., PHONE 1-800-242-1776, SERIAL NO. 20202962246 FOR RADNOR TOWNSHIP, DELAWARE COUNTY, PA.
- HORIZONTAL CONTROL IS TIED TO THE STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NORTH AMERICAN DATUM (NAD) OF 1983.
- ELEVATIONS SHOWN ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
PROJECTION: STATE PLANE COORDINATE SYSTEM
ZONE: PENNSYLVANIA NORTH
DATUM: NAD83
PLANAR UNITS: U.S. SURVEY FEET
 BASED ON NAD83 PA STATE PLANE COORDINATE SYSTEM - NORTH ZONE
- THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS PRIOR TO BEGINNING WORK. VERIFY SIZE AND LOCATION OF ALL OVERHEAD AND UNDERGROUND UTILITIES, AND TEST PITS IN AREAS OF POTENTIAL CONFLICT. DISCREPANCIES SHALL BE REPORTED TO THE TRAIL ARCHITECT WELL IN ADVANCE OF CONSTRUCTION START. START OF CONSTRUCTION BY THE CONTRACTOR SHALL CONSTITUTE FULL ACCEPTANCE OF ALL SITE CONDITIONS BY THE CONTRACTOR.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES WHICH ARE TO REMAIN FREE FROM DAMAGE AND MAINTAIN UNINTERRUPTED SERVICE TO ALL USERS. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OR SUB-CONTRACTOR'S ACTIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- ACCESS TO THE TRAIL RIGHT-OF-WAY AND CORRIDOR IS AVAILABLE FROM PUBLIC ROADS. THE CONTRACTOR SHALL CONFIRM RIGHT OF ACCESS WITH RADNOR TOWNSHIP.
- STORMWATER FACILITIES SHALL BE INSPECTED TWICE A YEAR BY THE OWNER FOR DEBRIS BUILDUP AND PROPER FUNCTIONALITY. DETRITUS MATERIAL SHALL BE CLEARED / REMOVED AS NECESSARY OR AFTER HEAVY RAIN EVENTS TO RESTORE STORMWATER FACILITY FUNCTION.
- THE ISSUANCE OF ANY PERMIT OR APPROVAL OF ANY PLAN ARE NOT INTENDED TO CREATE LIABILITY ON THE PART OF THE MUNICIPALITIES, ITS COMMISSION(S), SUPERVISORS, OFFICERS, AND AGENTS. PARTIES ARE ADVISED TO INDEPENDENTLY INVESTIGATE DEVELOPMENT RIGHTS, IMPROVEMENTS, STRUCTURES, OR COMPONENTS THERE OF ADDITIONAL ZONING AND/OR BUILDING PERMITS AND/OR OCCUPANCY MAY BE NECESSARY. THE OWNER AND ITS SUCCESSORS AND ASSIGNS SHALL INDEMNIFY AND HOLD HARMLESS THE MUNICIPALITIES, ITS EMPLOYEES, AGENTS, COMMISSION(S) AND SUPERVISORS FROM ALL CLAIMS RELATED TO DEVELOPMENT PLANS AND CALCULATIONS, INCLUDING BUT NOT LIMITED TO STORMWATER DETENTION AND DISCHARGE.
- ALL CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE TRAIL CONSTRUCTION AND FINAL TRAIL ALIGNMENT SHALL BE LIMITED TO WITHIN PUBLIC OR LEGAL RIGHT-OF-WAY AND LANDS OTHERWISE IN POSSESSION OR UNDER CLEARANCE OR EASEMENT BY RADNOR TOWNSHIP.
- EXISTING PLAN INFORMATION WAS OBTAINED USING AERIAL PHOTOGRAPHY, AVAILABLE LIDAR CONTOURS AND PROPERTY AND RIGHT-OF-WAY BOUNDARY INFORMATION THAT WAS GENERATED USING DEED MOSAICS AND GIS INFORMATION PROVIDED BY RADNOR TOWNSHIP. INFORMATION IN THE RIGHT-OF-WAY WERE FIELD SURVEYED BY GILMORE.
- IF EXISTING SITE CONDITIONS ALONG THE TRAIL CORRIDOR DIFFER FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, THE TRAIL CROSS SECTION CAN BE NARROWED WITH THE APPROVAL OF THE TRAIL ARCHITECT.
- CONSTRUCT PROJECT IN ACCORDANCE WITH PENNDOT PUBLICATION 408, (LATEST EDITION), ALL OF ITS SUPPLEMENTS AND PROJECT SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL COMPLY WITH ALL NECESSARY AGENCY APPROVALS, ENVIRONMENTAL PERMITS AND THE EROSION AND SEDIMENT POLLUTION CONTROL PLANS AND REPORT AS APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE DELAWARE COUNTY CONSERVATION DISTRICT.
- ALL TRAIL SURFACE AGGREGATE (TSA) SPECIFICATIONS AND REQUIREMENTS MUST BE ADHERED TO BY THE CONTRACTOR PRIOR TO, DURING AND AFTER INSTALLATION OF THE TRAIL SURFACE.

- TRAIL GEOMETRY IS SHOWN FOR PLANNING INFORMATION ONLY. RIGHTS-OF-WAY CONFIGURATION HAS BEEN DEPICTED PER PROPERTY BOUNDARY SURVEY BASED ON THE DEED OF RECORD. THE PROPOSED TRAIL ALIGNMENT IS TO FOLLOW THE CENTERLINE OF THE EXISTING FORMER RAILBED. THE GEOMETRY IS PROVIDED TO DETERMINE EARTHMOVING QUANTITY CALCULATIONS, SITE CONSTRUCTION METHODS AND MEASURES AND STORMWATER MANAGEMENT FACILITIES. THE BASELINE OF THE ABANDONED RAIL ALIGNMENT HAS NOT BEEN ESTABLISHED. TOPOGRAPHIC CONTOURS ARE PASDA LIDAR GEO SPATIAL REFERENCING.
- THE DEVELOPER OR OWNER ACKNOWLEDGES THAT UNDER PA CODE CHAPTER 102 EROSION AND SEDIMENT CONTROL RULES AND REGULATIONS, ALL OWNERS/OWNERS OPERATORS ARE REQUIRED TO PROVIDE AND IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES FOR CERTAIN EARTH DISTURBANCE ACTIVITIES, AS DESCRIBED THERIN, REGARDLESS OF WHETHER A WRITTEN AND/OR APPROVED EROSION AND SEDIMENT CONTROL PLAN IS REQUIRED. NON-COMPLIANCE WITH THE REQUIREMENTS OF CHAPTER 102 IS A VIOLATION OF FEDERAL LAN AND SUBJECT TO PENALTY AS A RESULT THEROF.
- NO CONSTRUCTION OF EARTH DISTURBANCE SHALL OCCUR ON ANY WETLANDS UNLESS ALL NECESSARY AND APPLICABLE PERMITS ARE OBTAINED FROM ALL FEDERAL, STATE AND LOCAL GOVERNMENTAL AGENCIES HAVING JURISDICTION, INCLUDING WITHOUT LIMITATION, THE U.S. ARMY CORPS OF ENGINEERS AND THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- THE LESSEE, OWNER AND/OR THE CONTRACTOR ASSUMES FULL RESPONSIBILITY, FOR OBTAINING ANY LOCAL, STATE AND FEDERAL PERMITS AND/OR APPROVALS RELATING TO EARTH DISTURBANCE AND/OR WETLAND. APPROVAL BY RADNOR TOWNSHIP SHALL NOT IN ANY MANNER BE CONSTRUED TO BE AN APPROVAL OF COMPLIANCE WITH STATUTES OR REGULATIONS RELATING TO EARTH DISTURBANCE AND WETLANDS. RADNOR TOWNSHIP SHALL HAVE NO LIABILITY OR RESPONSIBILITY FOR THE SAME TO THE OWNER OR CONTRACTOR.
- DESIGNS FOR WALLS AND CONSTRUCTION DETAILS ARE TO BE PROVIDED TO RADNOR TOWNSHIP PRIOR TO OR CONCURRENT WITH THE BUILDING PERMIT APPLICATION.

EXISTING SOILS DATA			
MAP SYMBOL	DESCRIPTION	SLOPE %	HYDROLOGIC GROUP
GeB	GLENEELG CHANNERY LOAM	3 TO 8	B
GeC2	GLENELG CHANNERLY SILT LOAM, MODERATELY ERODED	8 TO 15	B
GnB2	GLENVILLE SILT LOAM MODERATELY ERODED	3 TO 8	C/D
Ns2	NESHAMINY VERY STONY SILT LOAM	8 TO 25	C

SOIL LIMITATION NOTES

THE FOLLOWING IDENTIFIED SOIL LIMITATION WITHIN THE PROJECT AREA AND HOW THEY WILL BE ADDRESSED WITHIN ARE AS FOLLOWS:

FROST ACTION: POSITIVE TRAIL SURFACE DRAINAGE WILL BE PROVIDED WITHIN PROJECT AREAS WITH THIS SOIL LIMITATION TO MINIMIZE THE CHANCE OF SOIL SATURATION.

HIGH WATER TABLE: POSITIVE TRAIL SURFACE DRAINAGE WILL BE PROVIDED WITHIN THE PROJECT AREAS WITH THIS SOIL LIMITATIONS TO REDUCE THE EFFECT ON THE HIGH WATER TABLE.

SHRINK-SWELL: WITHIN PROJECT AREAS WITH SHRINK-SWELL SOIL LIMITATIONS, THESE SOILS WILL NOT BE USED AS FILL OR EMBANKMENT MATERIALS.

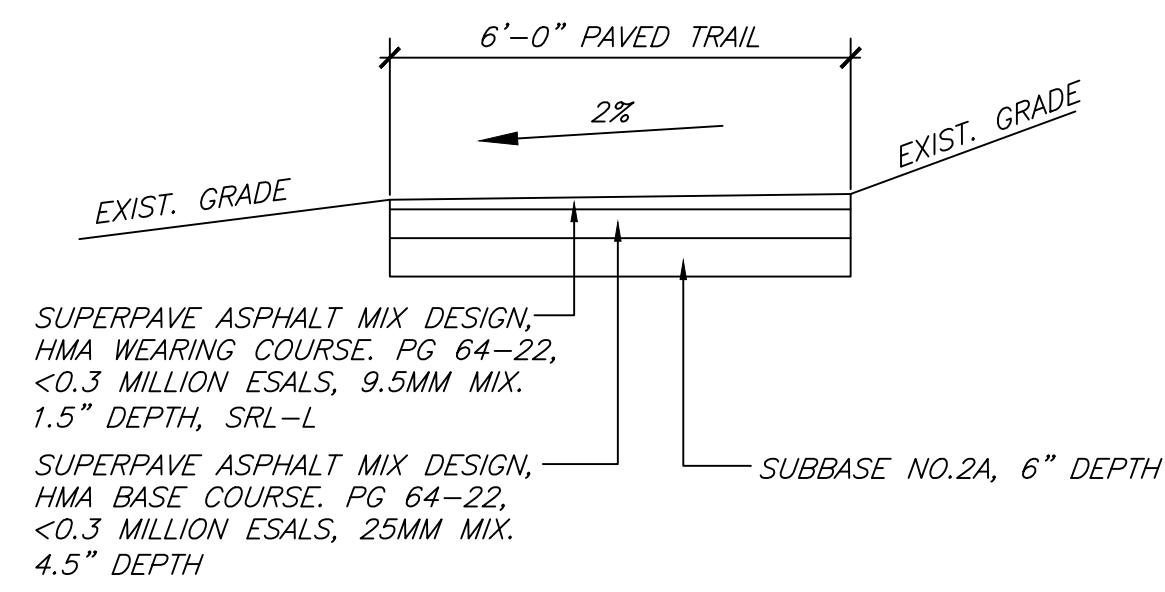
EXCESSIVE SLOPE CONDITIONS: INSPECT STEEP SLOPES, USE FILTER SOCKS AND EROSION CONTROL BLANKETS REGULARLY FOR AREAS OF EROSION AND RESTORE PROPERLY.

DROUGHTY: WITHIN PROJECT AREAS WITH DROUGHTY SOIL LIMITATIONS, THE SOIL SHALL BE AMENDED TO INCREASE MOISTURE-HOLDING CAPACITY ONLY IN AREAS WHERE PLANT MATERIAL IS PROPOSED.

POOR SOURCE OF TOPSOIL: WITHIN PROJECT AREAS WHERE THE SOIL IS CLASSIFIED AS A POOR SOURCE OF TOPSOIL, THESE SOILS WILL NOT BE STOCKPILED FOR TOPSOIL REUSE FOR THE PROJECT.

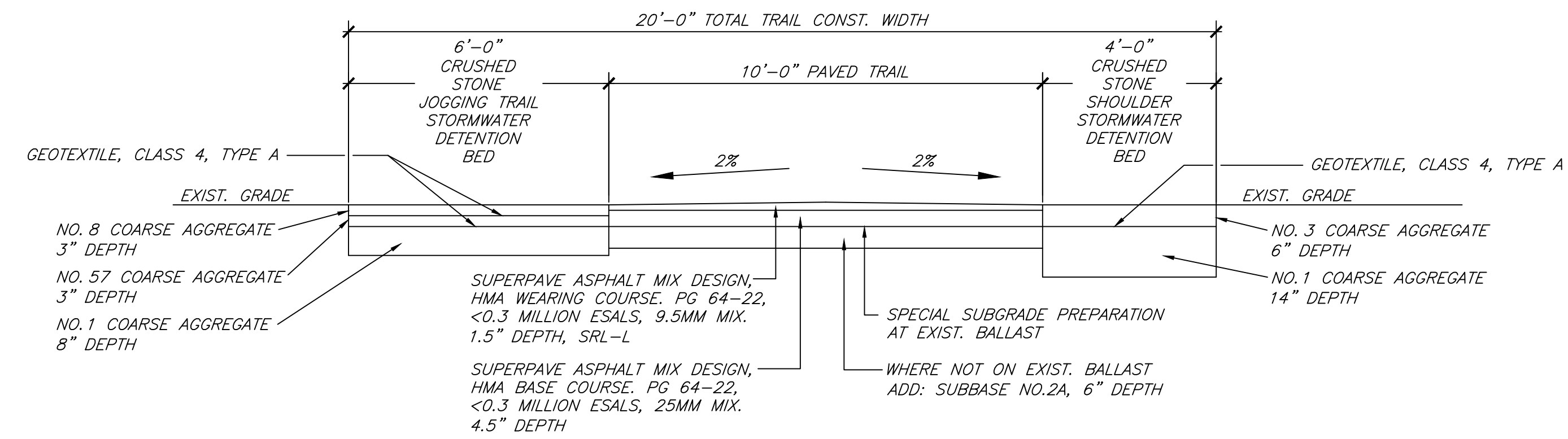
WETNESS: WITHIN PROJECT AREAS WITH A WETNESS SOIL LIMITATION, POSITIVE SURFACE DRAINAGE WILL BE PROVIDED TO MINIMIZE STANDING WATER AREAS THAT WILL CONTRIBUTE TO THE SOIL WETNESS.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	DELAWARE			5 OF 12	
RADNOR TOWNSHIP					
REVISION NUMBER	REVISIONS			DATE	BY
1	TRAIL ALIGNMENT CHANGES			8.18.20	LRF



TYPICAL SIDE PATH CROSS-SECTION
NOT TO SCALE

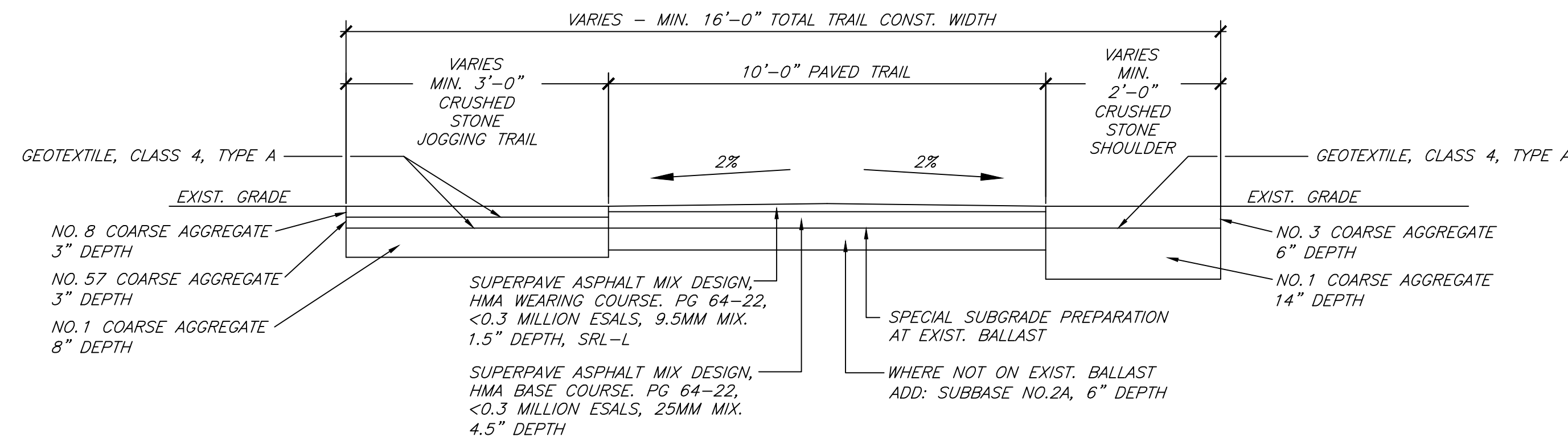
1



RADNOR TRAIL TYPICAL TRAIL CROSS-SECTION

NOT TO SCALE
STA. 0+00.00 TO STA. 3.94+75
STA. 4+44.75 TO STA. 5+50.00
STA. 6+00.00 TO STA. 16+72.94

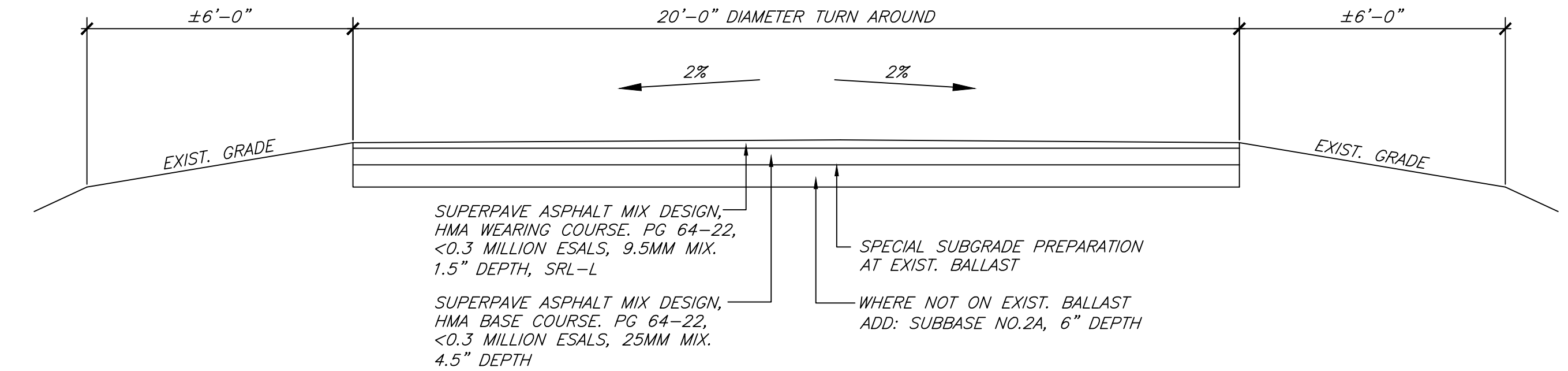
2



REDUCED WIDTH TRAIL CROSS SECTION
NOT TO SCALE

STA. 3+94.75 TO STA. 4+44.75
STA. 5+50.00 TO STA. 6+00.00

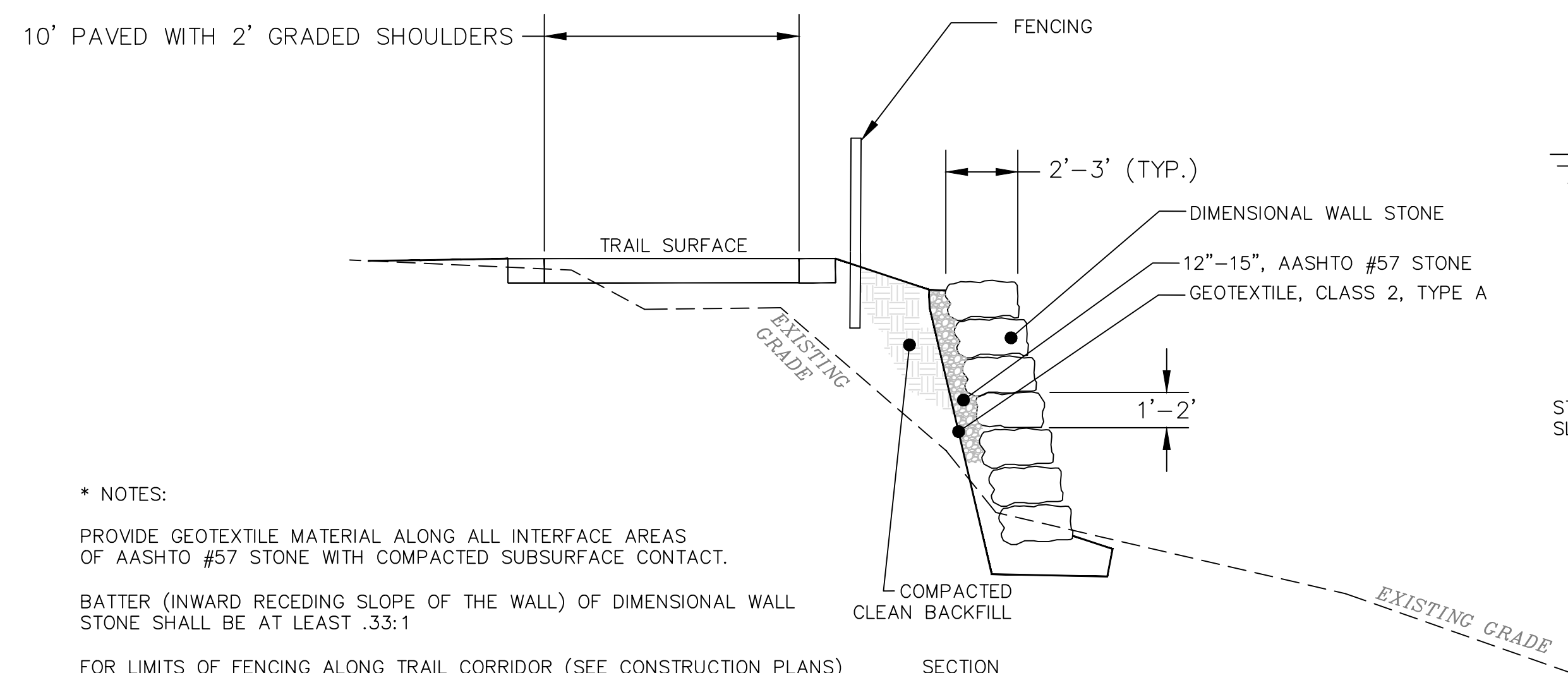
3



TURN AROUND CROSS-SECTION

NOT TO SCALE
STA. 16+72+94

4



* NOTES:
PROVIDE GEOTEXTILE MATERIAL ALONG ALL INTERFACE AREAS OF AASHTO #57 STONE WITH COMPACTED SUBSURFACE CONTACT.

BATTER (INWARD RECEDING SLOPE OF THE WALL) OF DIMENSIONAL WALL STONE SHALL BE AT LEAST .33:1

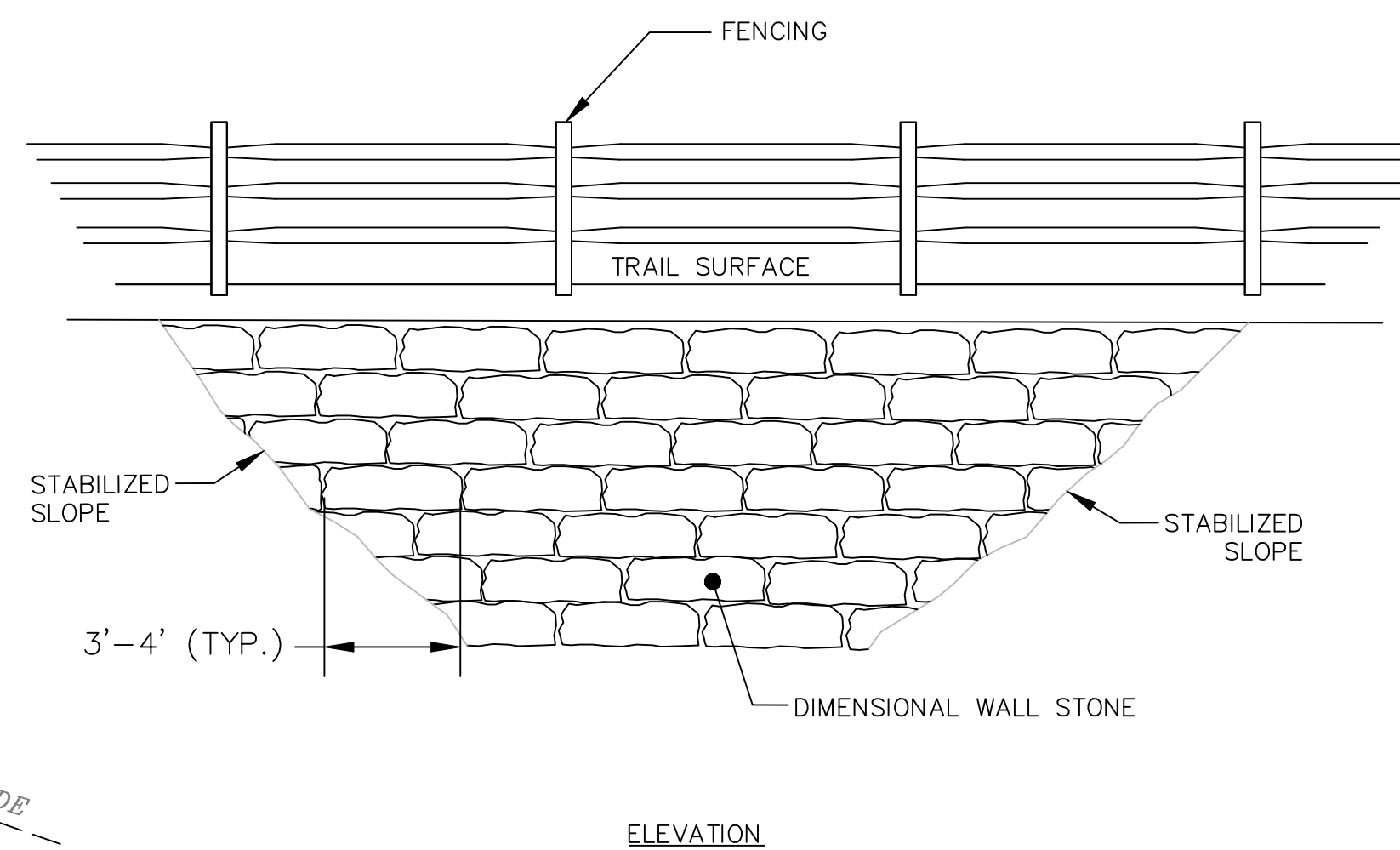
FOR LIMITS OF FENCING ALONG TRAIL CORRIDOR (SEE CONSTRUCTION PLANS)

DETAIL FOR AS NEEDED

TYPICAL STACKED DIMENSIONAL STONE - EMBANKMENT STABILIZATION DETAIL

NOT TO SCALE

5



ELEVATION

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	DELAWARE			6 OF 12	
RADNOR TOWNSHIP					
REVISION NUMBER	REVISIONS			DATE	BY
1	TRAIL ALIGNMENT CHANGES			8.18.20	LRF

PERMANENT SEED MIXTURE

	% OF MIXTURE	% PURITY	% GERMINATION	% WEED SEED	SEEDING RATE LB/1000 YD
FORMULA C MIXTURE					
SPECIES					
INDIANGRASS	45	99	70	0.10	5.5
ANNUAL RYEGRASS	55	95	90	0.10	6.5
FORMULA W MIXTURE					
SPECIES					
TALL FESCUE	30	96	85	0.10	4.5
BIRDSFOOT TREFOIL	10	92	80	0.10	1.5
REDTOP	10	92	80	0.20	1.5
VIRGINIA WILD RYE	24	85	70	0.20	3.6
TIOGA DEERTONGUE	14	95	80	0.20	2.1
FOX SEDGE	12	85	60	0.20	1.8
FORMULA L MIXTURE					
SPECIES					
HARD FESCUE MIXTURE, A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL HARD FESCUE COMPONENT	55	97	85	0.10	26.4
CREeping RED FESCUE (IMPROVED AND CERTIFIED)	35	97	85	0.10	16.8
ANNUAL RYEGRASS	10	95	90	0.10	4.8

SOIL SUPPLEMENT APPLICATIONS:

PULVERIZED AGRICULTURAL LIMESTONE	800 LB/1000 YD ²
10-20-20 ANALYSIS COMMERCIAL FERTILIZER	140 LB/1000 YD ²
38-0-0 FERTILIZER	50 LB/1000 YD ²

TEMPORARY SEED MIXTURE

	% OF MIXTURE	% PURITY	% GERMINATION	% WEED SEED	SEEDING RATE LB/1000 YD ²
FORMULA E MIXTURE					
SPECIES					
ANNUAL RYEGRASS	100	95	90	0.10	10.0

NOTE: AREAS THAT WILL RECEIVE FORMULA E (TEMPORARY SEE MIXTURE) DO NOT NEED SOILS SUPPLEMENTS (I.E. LIME AND FERTILIZER).

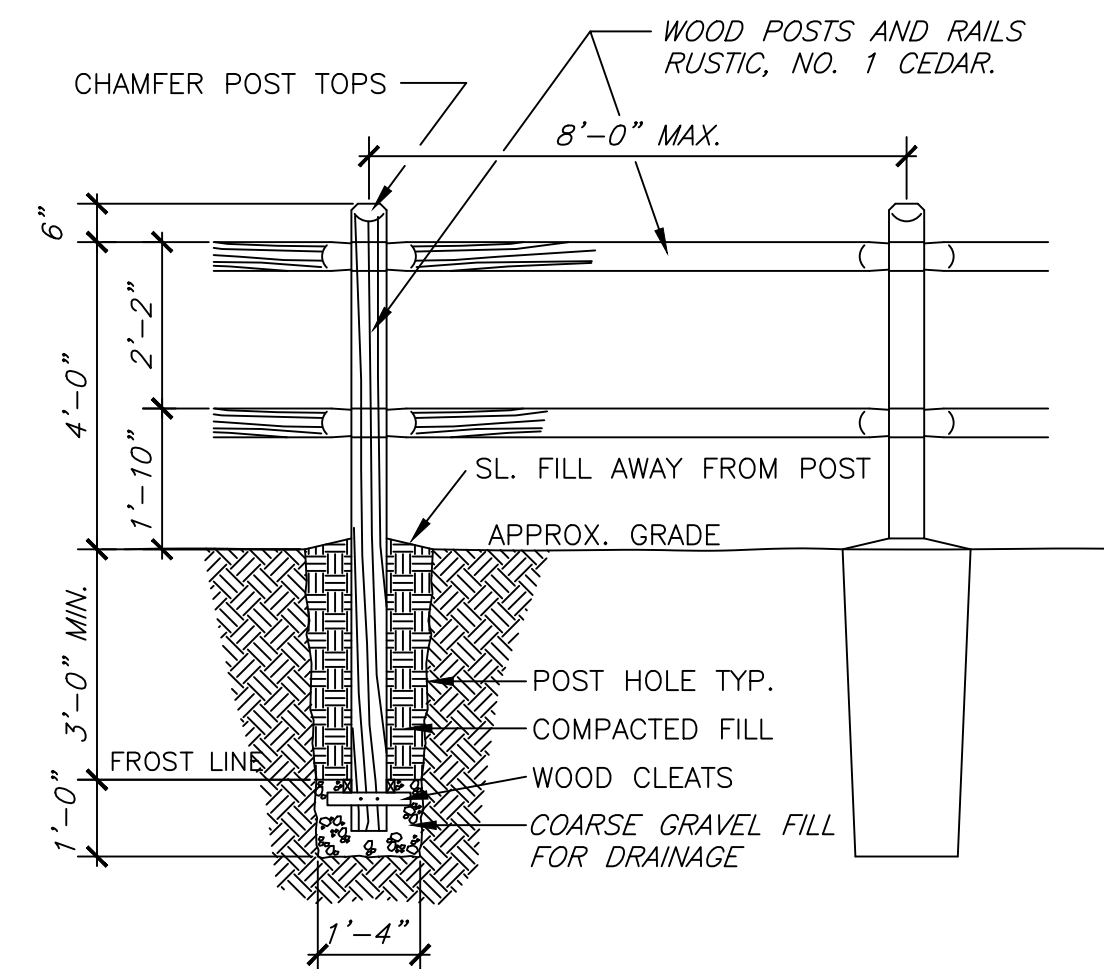
USE EACH SEED MIXTURE IN THE AREAS DESIGNATED AS FOLLOWS OR AS DIRECTED

FORMULA C MIXTURE	CUT AND FILL SLOPES STEEPER THAN 3:1
FORMULA W MIXTURE	DRAINAGE SWALE REHABILITATION/GRASS LINED CHANNELS
FORMULA E MIXTURE	AS NECESSARY
FORMULA L MIXTURE	DISTURBED AREAS 3:1 AND FLATTER

SEEDING NOTES

- ALL SEEDING, SOIL SUPPLEMENTS AND MULCHING ITEMS SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF PADOT PUBLICATION 408, SECTION 804 AND 805 OR OTHER APPROVED SPECIAL PROVISIONS.
- A DISTURBED AREA ON WHICH ACTIVITY HAS CEASED MUST BE SEEDED AND MULCHED IMMEDIATELY. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE RECOMMENDED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE RE DISTURBED WITHIN 1 YEAR MUST BE SEEDED AND MULCHED WITH A QUICK GROWING TEMPORARY SEEDING MIXTURE (SUCH AS FORMULA E) AND MULCH. DISTURBED AREAS WHICH ARE EITHER AT FINISHED GRADE OR WILL NOT BE RE DISTURBED WITHIN 1 YEAR MUST BE SEEDED AND MULCHED WITH A PERMANENT SEED MIXTURE AND MULCH, IMMEDIATELY.

FORMULA E - MARCH 15 TO OCTOBER 15
FORMULA W - APRIL 1 TO JUNE 15 AND AUGUST 16 TO SEPTEMBER 15
- ALL AREAS MULCHED DURING THE NON-GERMINATING PERIODS MUST BE LIMED, FERTILIZED, SEEDED AND MULCHED WITHIN 20 DAYS OF THE ENDING OF THOSE PERIODS.
- EROSION CONTROL BLANKET MUST BE PLACED ON ALL SLOPES STEEPER THAN 3:1. ALL SLOPES ARE TO BE TRACKED JUST PRIOR TO SEEDING.

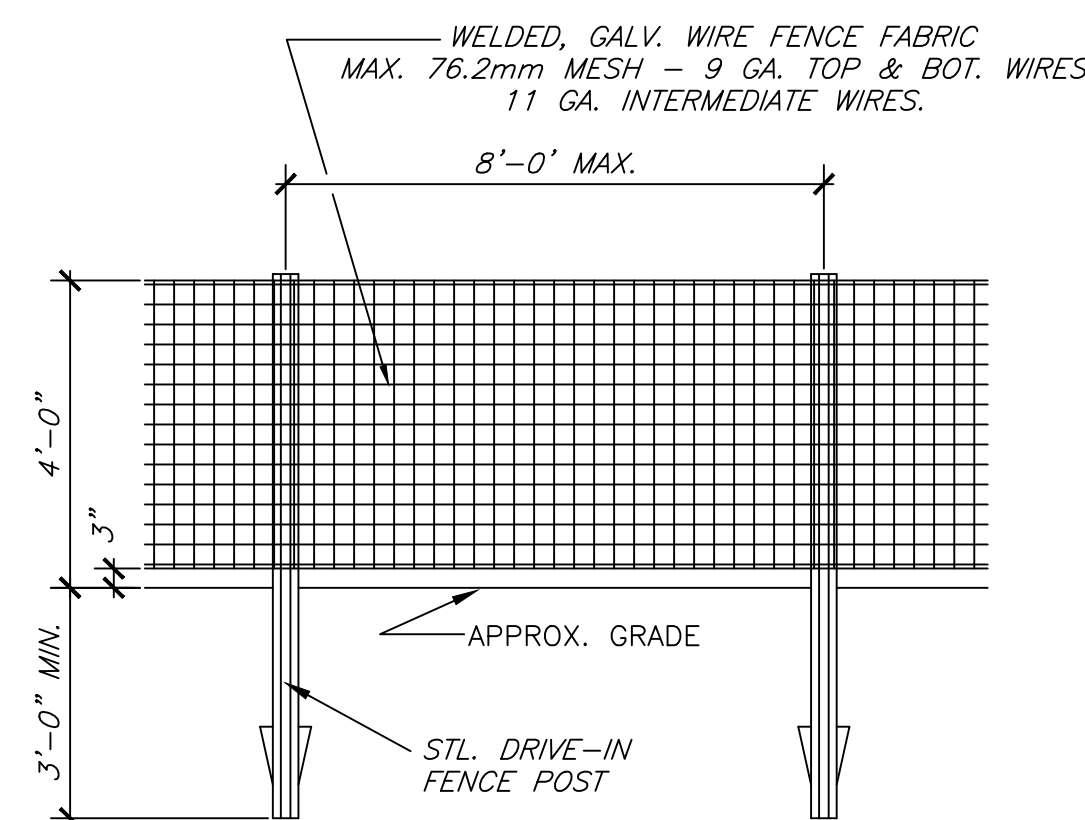


FENCE TYPE A - WOOD SPLIT RAIL FENCE

NOT TO SCALE

6

STA. 8+95.00 (+/-) TO STA. 10+40.00 (+/-)
STA. 8+90.00 (+/-) TO STA. 10+75.00 (+/-)



FENCE TYPE B - WIRE R/W FENCE, TYPE 2

NOT TO SCALE

7

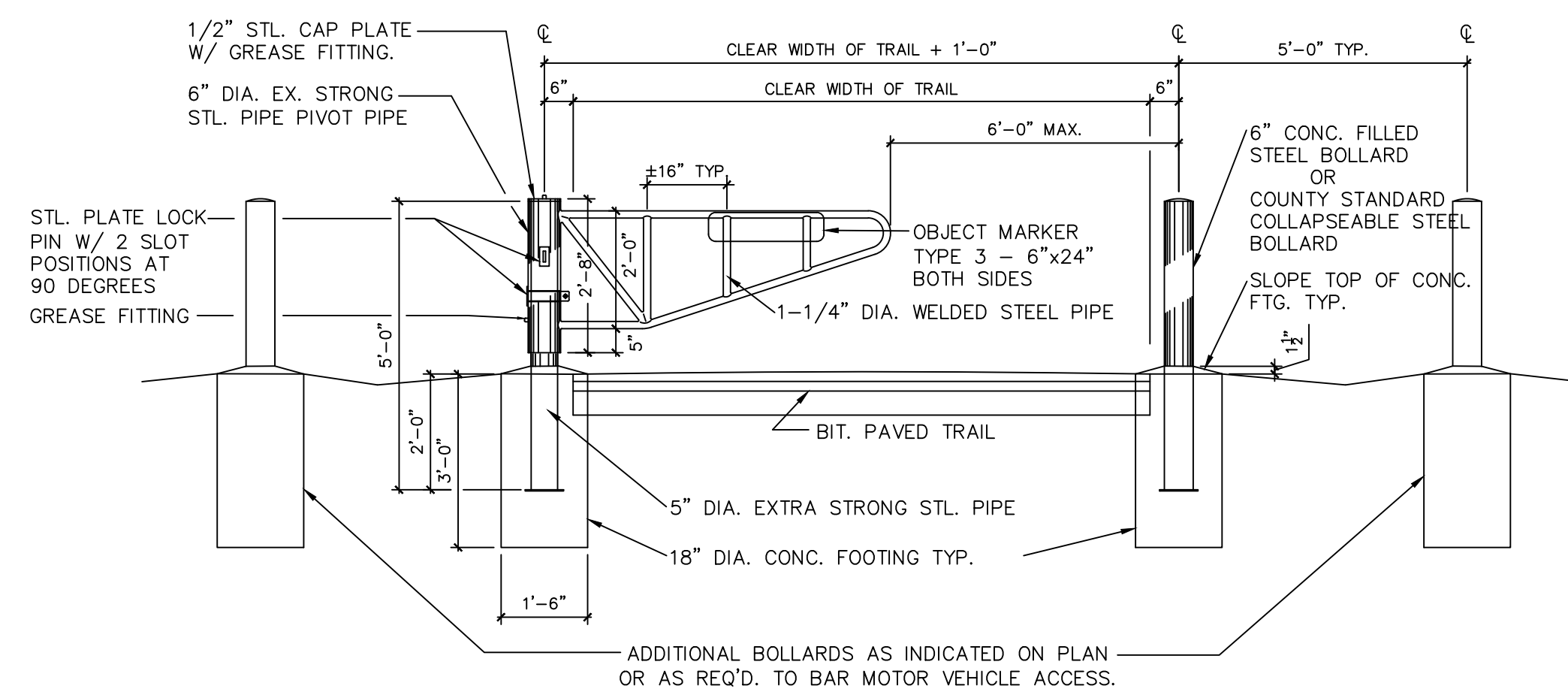
STA. 10+40.00 (+/-) TO STA. 16+98.50 (+/-)
STA. 10+75.00 (+/-) TO STA. 16+98.50 (+/-)

SEEDING MIXTURE SPECIFICATION DETAIL

NOT TO SCALE

8

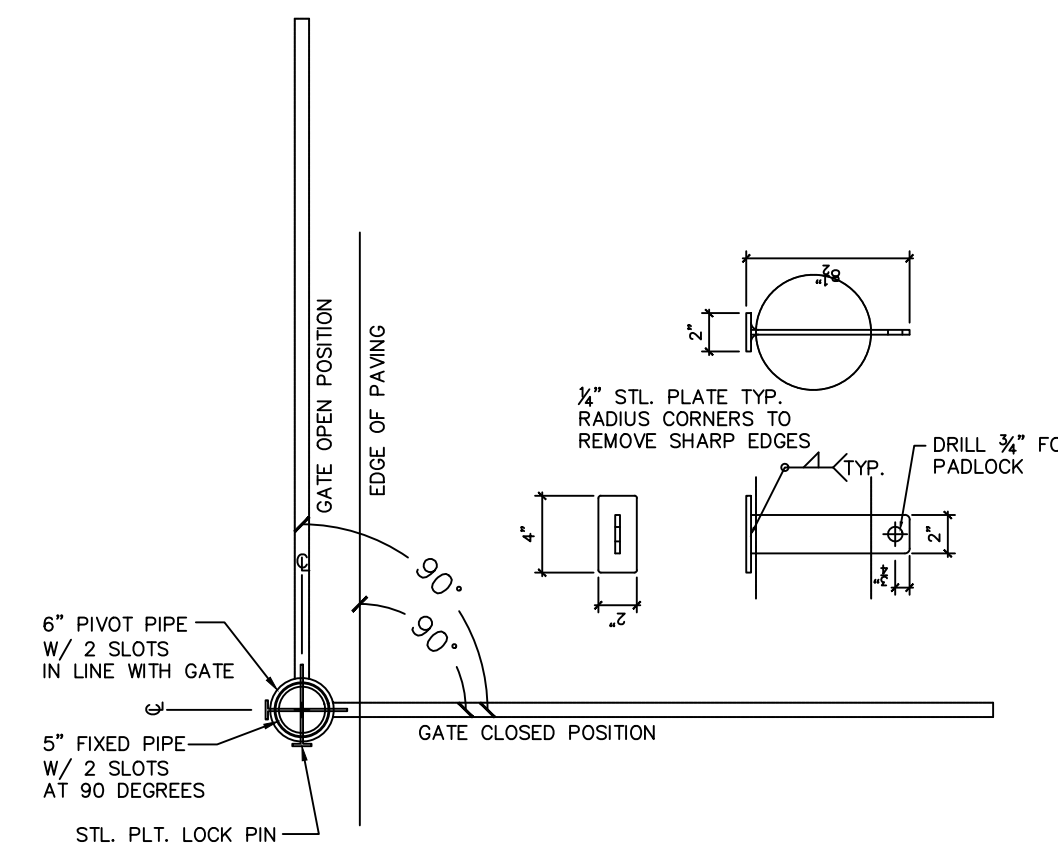
DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	DELAWARE			7 OF 12	
RADNOR TOWNSHIP					
REVISION NUMBER	REVISIONS			DATE	BY
1	TRAIL ALIGNMENT CHANGES			8.18.20	LRF



STEEL ENTRY GATE

NOT TO SCALE

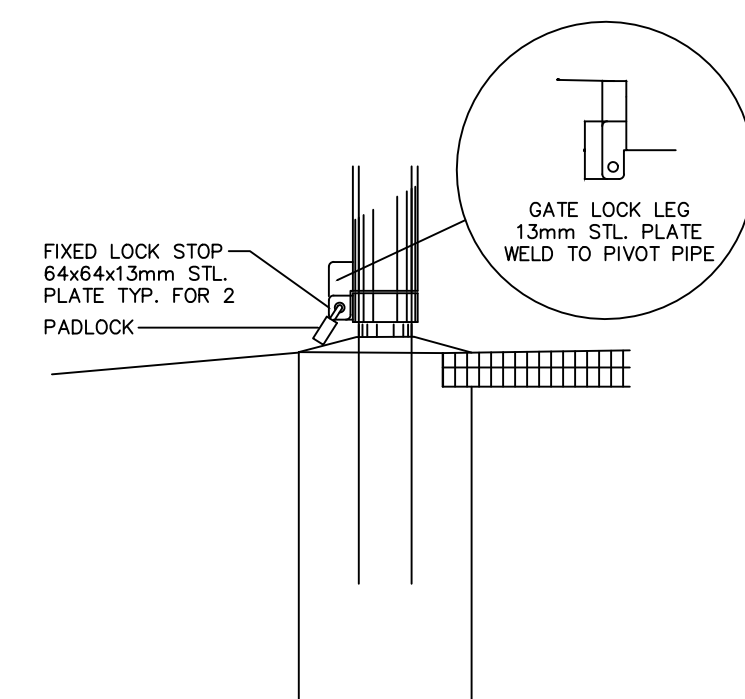
9



STEEL PLATE LOCK PIN – ENTRY GATE

NOT TO SCALE

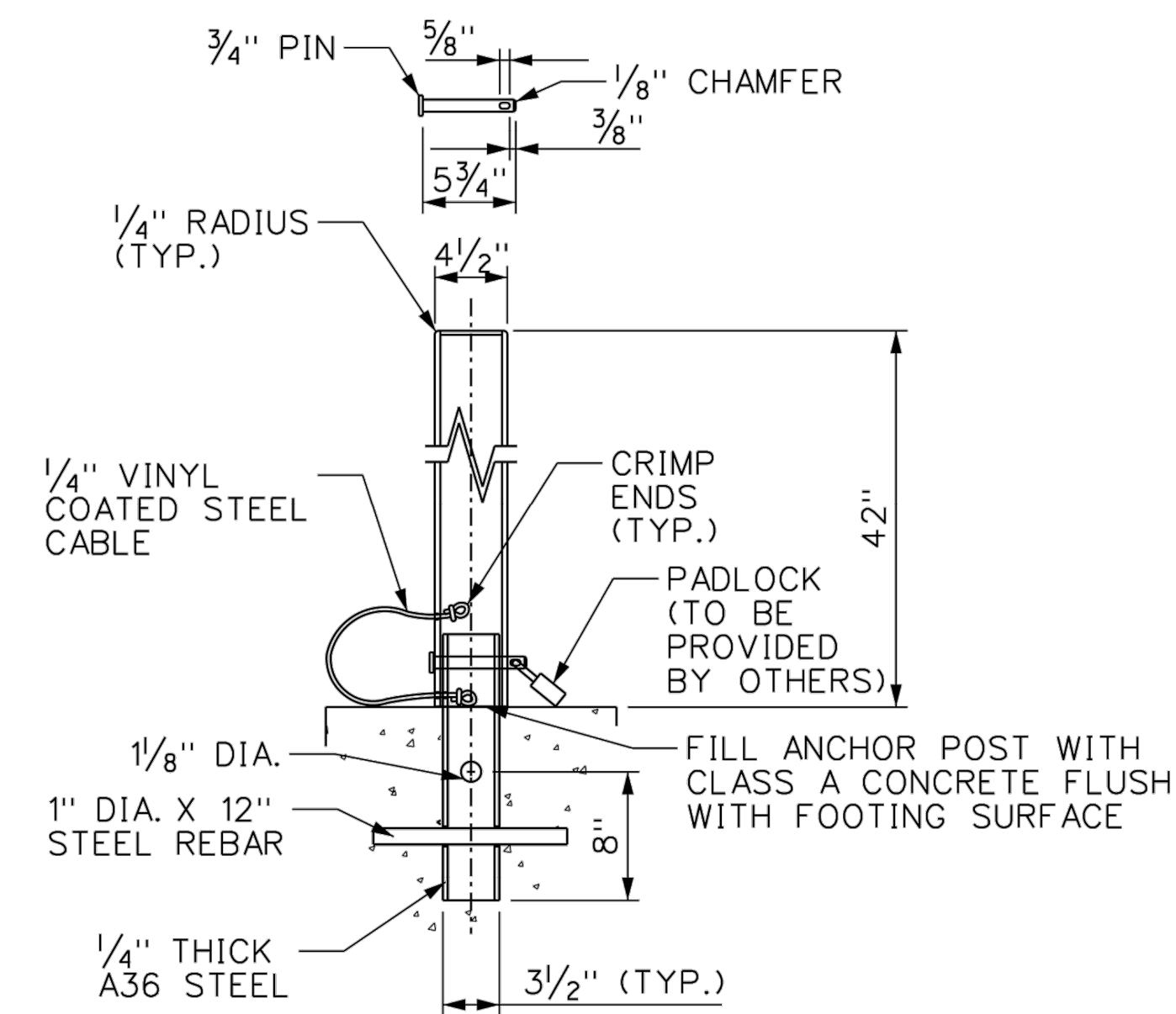
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GATE LOCK – ENTRY GATE

NOT TO SCALE

11



SECTION A-A
COLLAPSIBLE BOLLARD

NOT TO SCALE

12

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE			8 OF 12
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RADNOR-CHESTER ROAD CROSSING

VEHICLE STOPPING DISTANCE

$$D = \frac{V \times V}{30[(a/32.2) + OR - G]}$$

WHERE D = STOPPING DISTANCE REQUIRED
 V = ROADWAY DESIGN SPEED (MI/HR)
 a = DECELERATION RATE
 G = PERCENT GRADE / 100

$$D = \frac{25 \times 25}{30[(15/32.2) + OR - .03]}$$

D = 43.77 FT. & 50.08 FT.

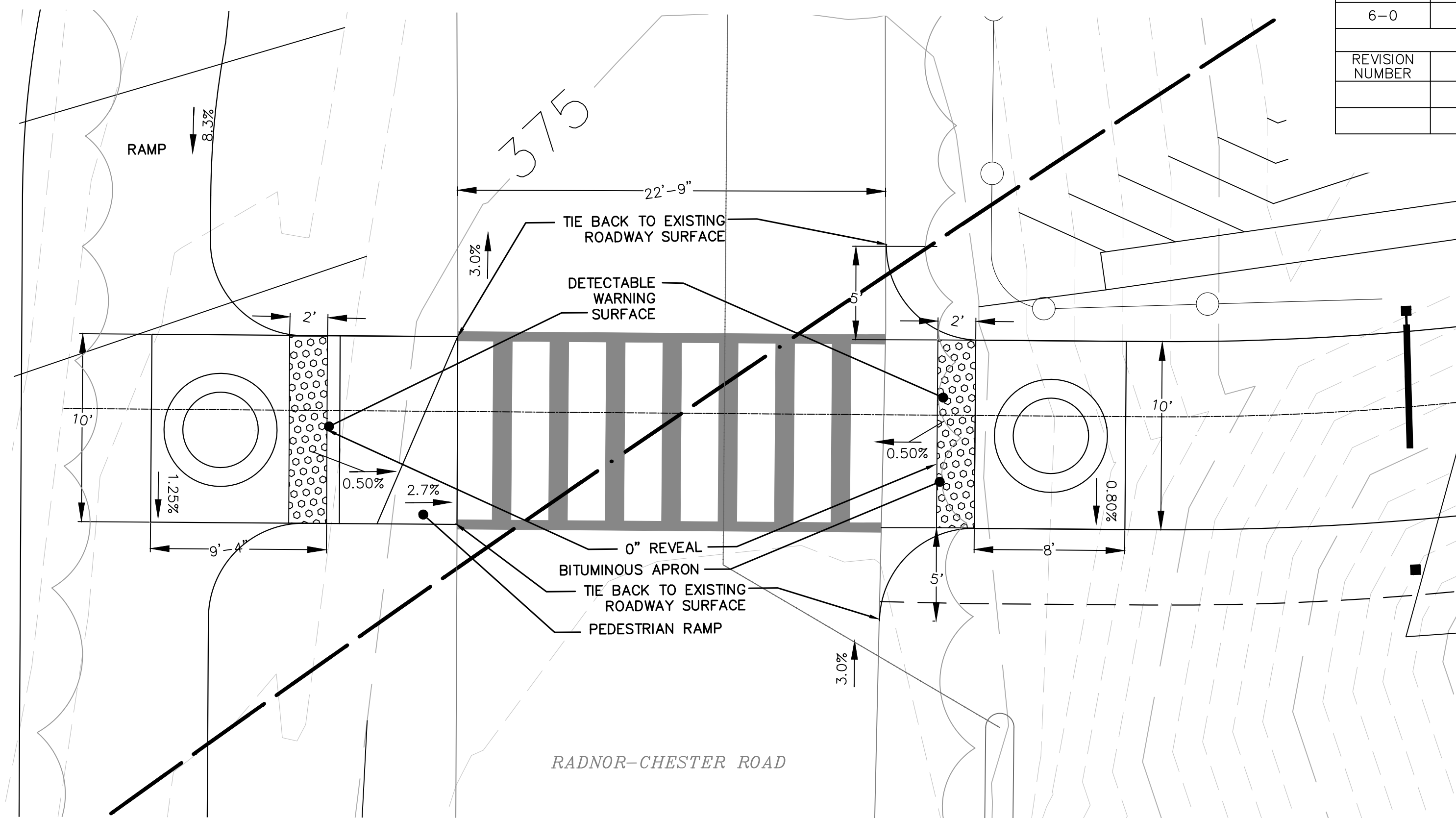
PEDESTRIAN SIGHT DISTANCE AT CROSSING

$$D = 1.47V (tg)$$

WHERE D = CROSSING SIGHT DISTANCE REQUIRED
 V = ROADWAY DESIGN SPEED (MI/HR)
 tg = TIME IT TAKES FOR PEDESTRIANS TO CROSS THE ROADWAY
 (2.5 FEET PER SECOND PLUS 2 SECONDS FOR PERCEPTION-REACTION TIME)

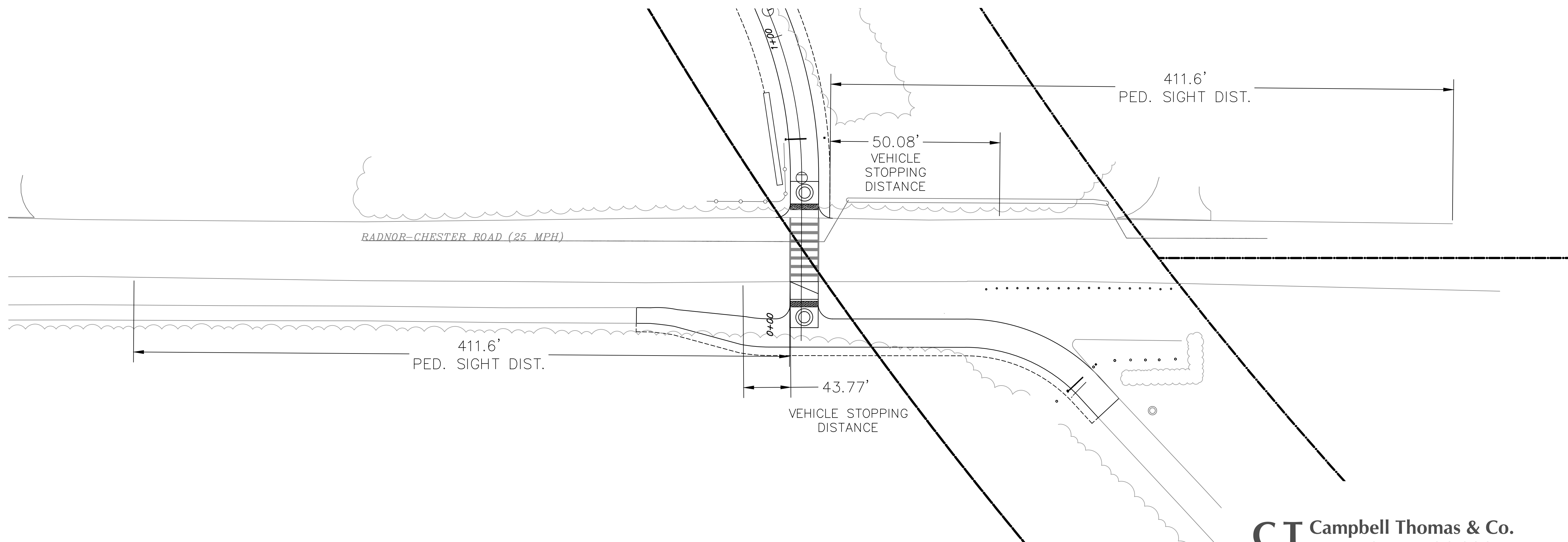
$$D = 1.47(25) (11.2)$$

D = 411.6



RADNOR-CHESTER ROAD TRAIL CROSSING AND RAMP DETAIL

SCALE: 1" = 5'



RADNOR-CHESTER RD. CROSSING SIGHT DISTANCE AND VEHICULAR STOPPING DISTANCE

SCALE: 1" = 20'

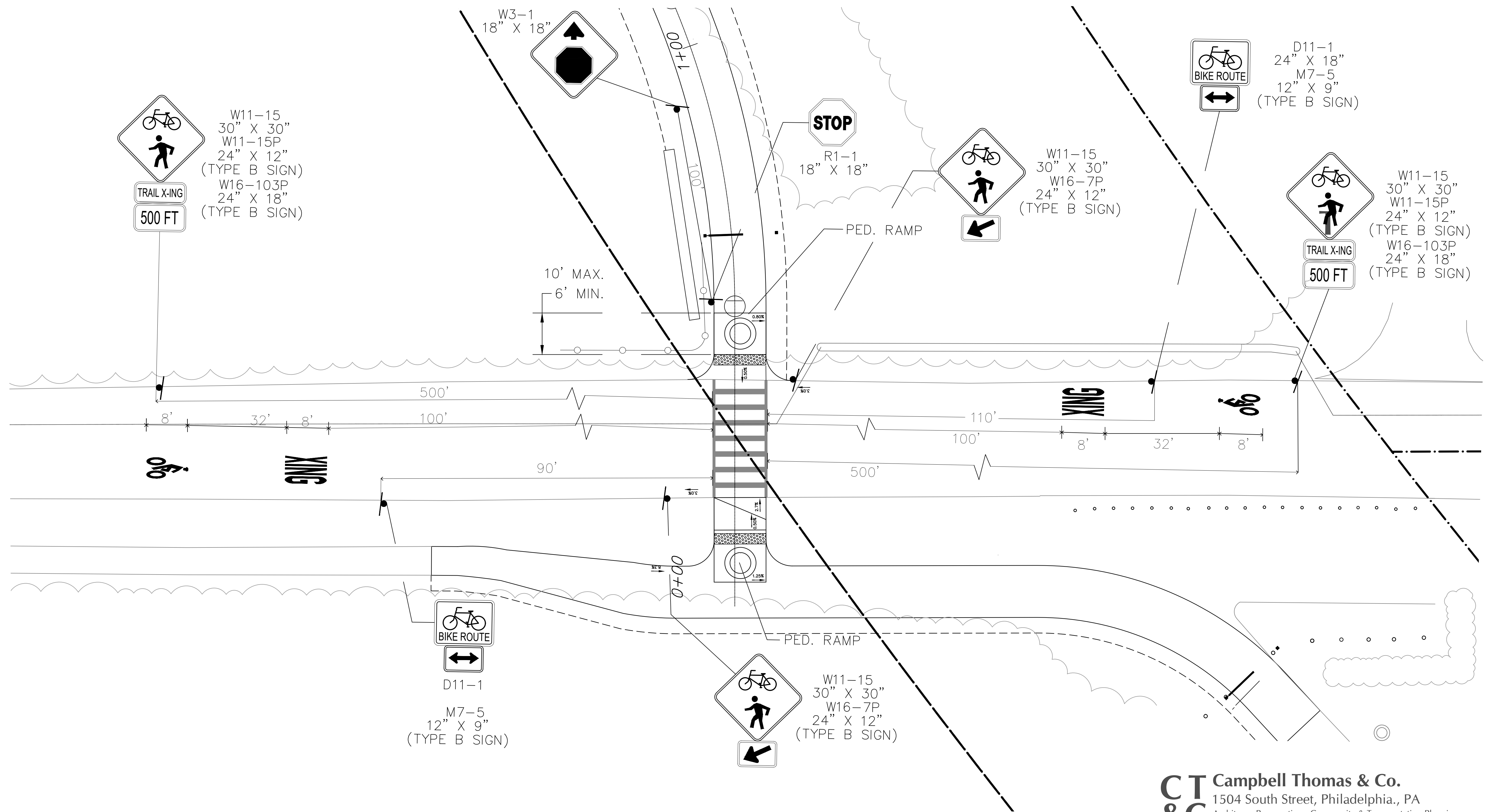
RADNOR CHESTER ROAD CROSSING

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	DELAWARE			9 OF 12	
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SIGN LOCATION
 W/4" 4" SOLID WHITE LINE
 W/6" 6" SOLID WHITE LINE
 W/24" 24" SOLID WHITE LINE

NOTES:

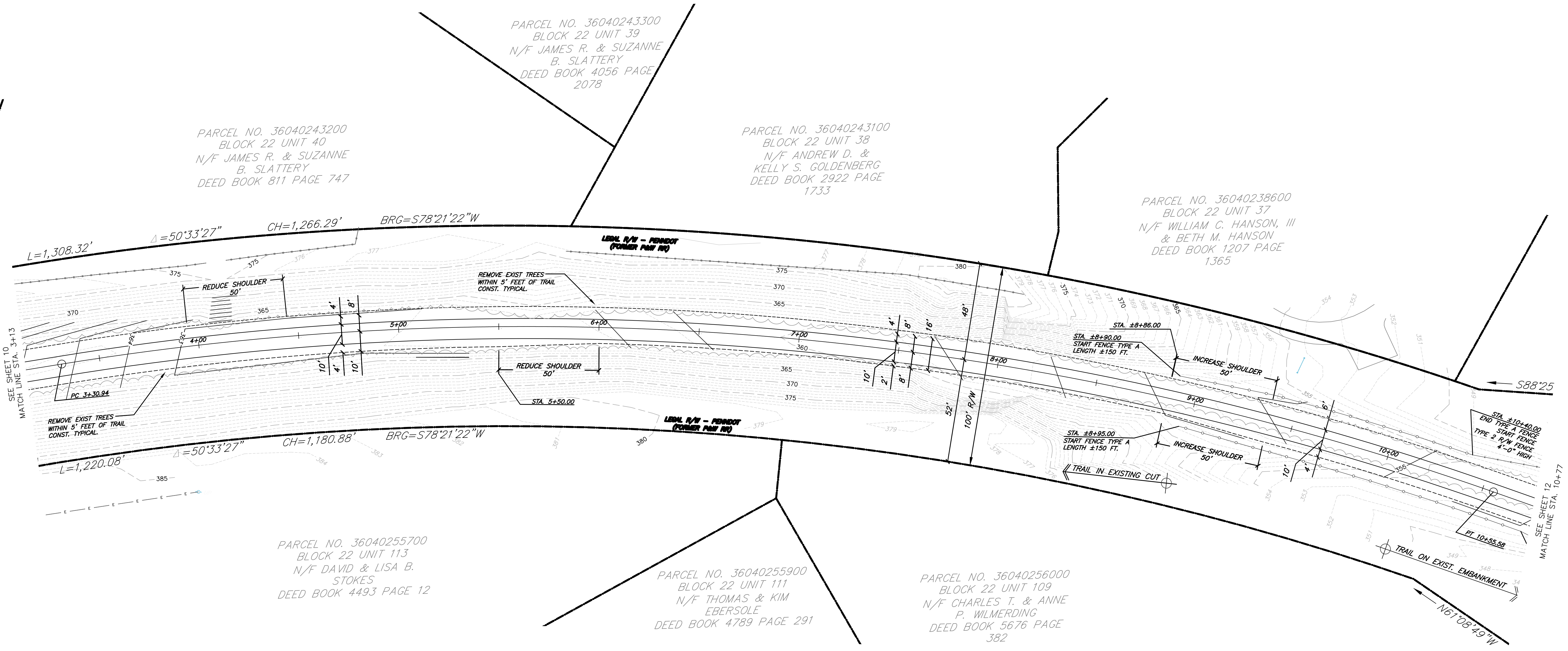
- SIGN INSTALLATION ALONG THE ROADWAY MUST BE TYPE B, METAL POSTS, SIGN INSTALLATIONS IN ACCORDANCE WITH PENNDOT STANDARD DRAWING TC-8702B.
- SIGN INSTALLATION ALONG THE TRAIL MUST BE TYPE C, WOOD POST, SIGN INSTALLATIONS IN ACCORDANCE WITH PENNDOT STANDARD DRAWING TC-8702C.
- ALL SIGNS MUST CONFORM WITH SIGNING STANDARDS, PENNDOT PUB. 236M. ALL WARNING SIGNS (DESIGNATED W***-*) MUST USE FLUORESCENT YELLOW GREEN BACKGROUNDS.
- ALL SIGNS ARE TO BE INSTALLED WITH 7 FT. CLEARANCE FROM BOTTOM OF SIGN TO GROUND.



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DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	DELAWARE			11 OF 12	
RADNOR TOWNSHIP					
REVISION NUMBER	REVISIONS			DATE	BY
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PARCEL NO. 36040243200
BLOCK 22 UNIT 40
N/F JAMES R. & SUZANNE
B. SLATTERY
DEED BOOK 811 PAGE 747

PARCEL NO. 36040243300
BLOCK 22 UNIT 39
N/F JAMES R. & SUZANNE
B. SLATTERY
DEED BOOK 4056 PAGE
2078

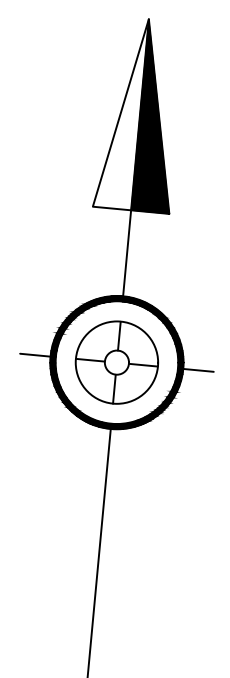
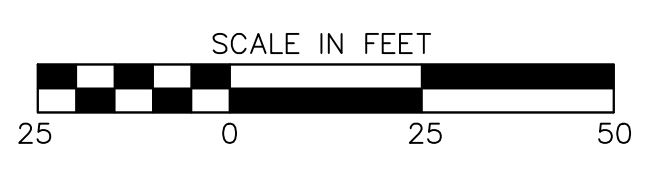
PARCEL NO. 36040243100
BLOCK 22 UNIT 38
N/F ANDREW D. &
KELLY S. GOLDBERG
DEED BOOK 2922 PAGE
1733

PARCEL NO. 36040238600
BLOCK 22 UNIT 37
N/F WILLIAM C. HANSON, III
& BETH M. HANSON
DEED BOOK 1207 PAGE
1365

PARCEL NO. 36040255700
BLOCK 22 UNIT 113
N/F DAVID & LISA B.
STOKES
DEED BOOK 4493 PAGE 12

PARCEL NO. 36040255900
BLOCK 22 UNIT 111
N/F THOMAS & KIM
EBERSOLE
DEED BOOK 4789 PAGE 291

PARCEL NO. 36040256000
BLOCK 22 UNIT 109
N/F CHARLES T. & ANNE
P. WILMERDING
DEED BOOK 5676 PAGE
382



NOTE:
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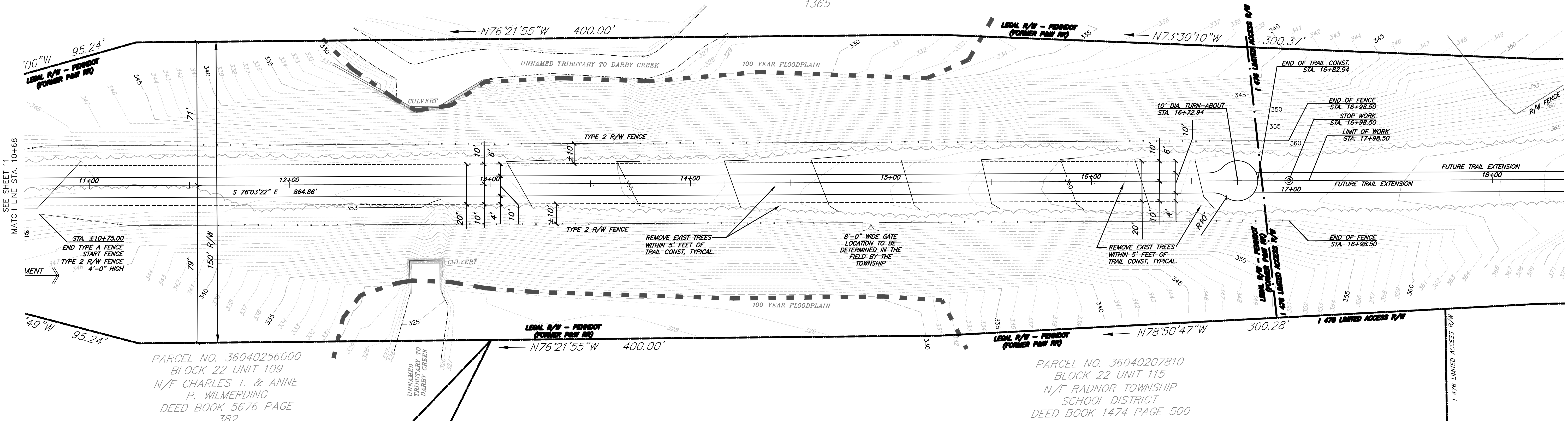
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	DELAWARE			12 OF 12	
RADNOR TOWNSHIP					
REVISION NUMBER	REVISIONS			DATE	BY
1	TRAIL ALIGNMENT CHANGES			8.18.20	LRF

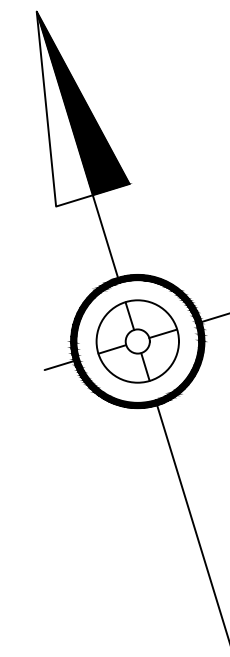
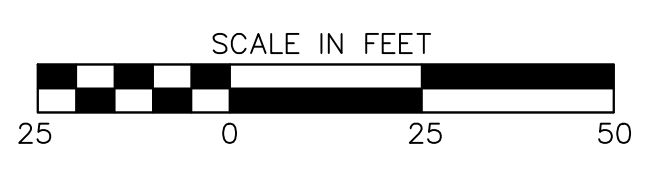
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 BLOCK 22 UNIT 37
 N/F WILLIAM C. HANSON, III
 & BETH M. HANSON
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 1365

PARCEL NO. 36040256000
 BLOCK 22 UNIT 109
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PARCEL NO. 36040207810
 BLOCK 22 UNIT 115
 N/F RADNOR TOWNSHIP
 SCHOOL DISTRICT
 DEED BOOK 1474 PAGE 500



SEE SHEET 11
 MATCH LINE STA. 10+68



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