

FINAL LAND DEVELOPMENT PLANS

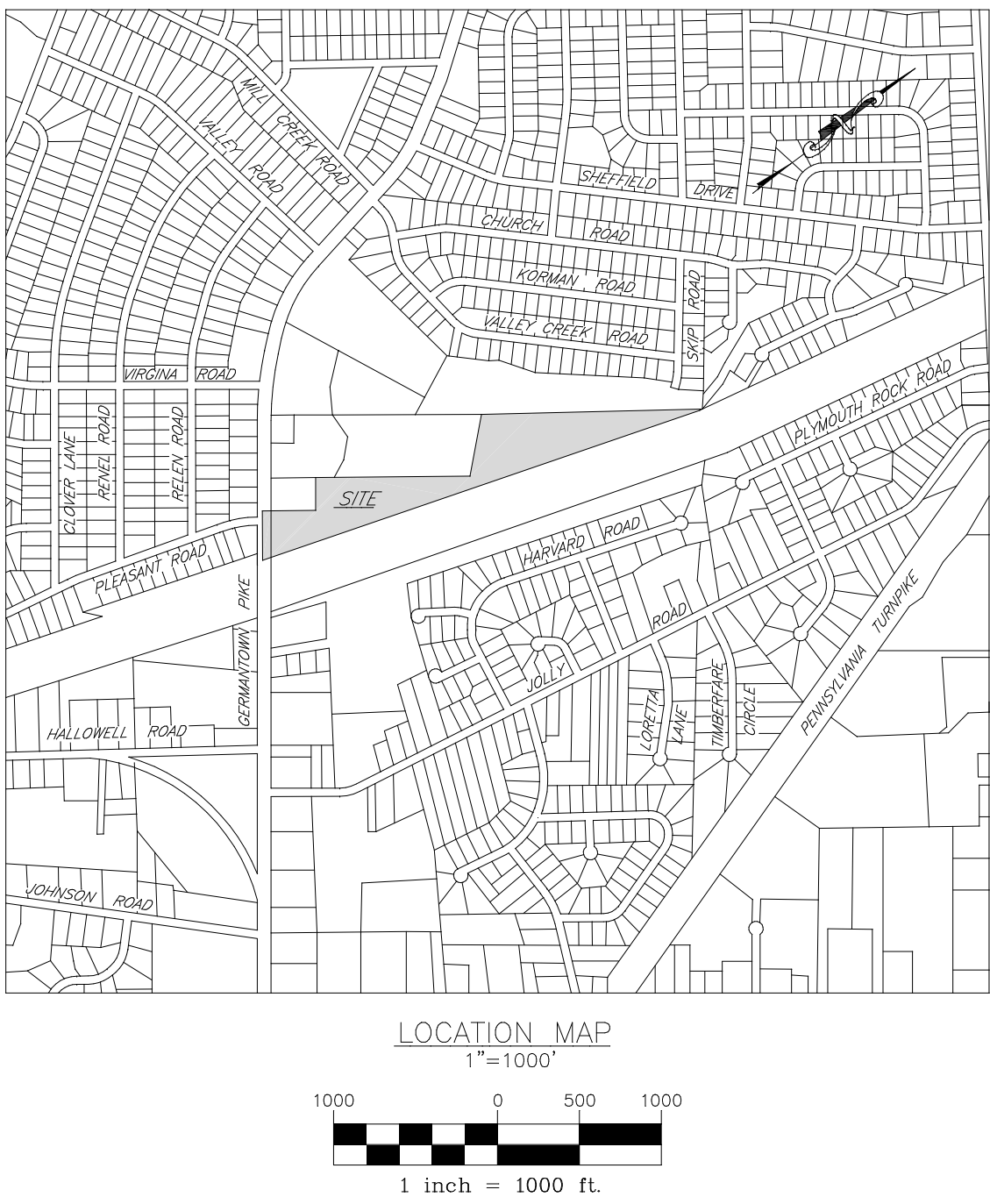
A NEW FIRE STATION

FOR

HARMONVILLE FIRE COMPANY -

PLYMOUTH VALLEY STATION

PLYMOUTH MEETING TWP. MONTGOMERY COUNTY, PA



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COMPANY: CROWN CASTLE
ADDRESS: 1500 CORPORATE DR
CANONSBURG, PA 15317
CONTACT: FIBER DIG TEAM PERSONNEL
EMAIL: fiber.dig@crowncastle.com
PHONE: 800-654-3110

COMPANY: COMCAST
ADDRESS: 1250 HADDONFIELD-BERLIN RD
CHERRY HILL, NJ 08034
CONTACT: WYATT PARRISH
EMAIL: WYATT_PARRISH@CABLE.COMCAST.COM
PHONE: 484-368-4391

COMPANY: FRONTIER COMMUNICATIONS OF PA INC
ADDRESS: 300E LAIRD ST
WILKES BARRE, PA 18702
CONTACT: MICHAEL NAVICH
EMAIL: Michael.Navich@FTR.com
PHONE: 570-208-3375

COMPANY: AQUA PENNSYLVANIA
ADDRESS: 762 LANCASTER AVE
BRYN MAWR, PA 19010
CONTACT: THOMAS WADDY
EMAIL: twaddy@aquasomerica.com
PHONE: 610-525-1400 EXT. 52105

COMPANY: PECO AN EXELON COMPANY C/O USIC
ADDRESS: 450 S HENDERSON ROAD SUITE B
KING OF PRUSSIA, PA 19406
CONTACT: NIKKIA SIMPKINS
EMAIL: nikkiasimpkins@usisllc.com
PHONE: 484-681-5720

COMPANY: MONTGOMERY COUNTY - PA
ADDRESS: 1 MONTGOMERY PLZ - ASST & INF - RD & BRG
PO BOX 311 - SUITE 613
NORRISTOWN, PA 19404
CONTACT: MORGAN ROUSCHER
EMAIL: morgan.rouscher@montgomerycountypa.gov
PHONE: 610-278-5173

COMPANY: ASTOUND BROADBAND POWERED BY RCN
ADDRESS: 5508 NOR-BATH BLVD
NORTHAMPTON, PA 18067
CONTACT: KEVIN COCHRAN
EMAIL: kevin.cochran@astound.com
PHONE: 610-440-8113

COMPANY: VERIZON BUSINESS FORMERLY MCI
ADDRESS: 7000 WESTON PKWY
CARY, NC 27513
CONTACT: VICTOR WOOD
EMAIL: victor.s.wood@verizon.com
PHONE: 919-414-2782

COMPANY: PLYMOUTH TOWNSHIP MONTGOMERY COUNTY
ADDRESS: 700 BELVOIR RD
PLYMOUTH MEETING, PA 19462
CONTACT: CHRISTOPHER LOSCHIAVO
EMAIL: closchiavo@plymouthtownship.org
PHONE: 610-233-0566

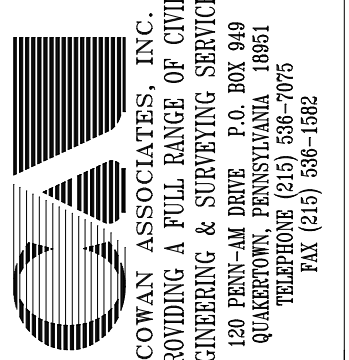
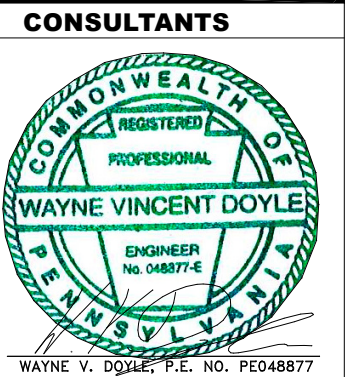
PENNSYLVANIA ONE CALL SYSTEM, INC.
925 IRWIN RUN ROAD
WEST MIFFLIN, PENNSYLVANIA
15122-1078



BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA
CALL 1-800-242-1776
NON-MEMBERS MUST BE CONTACTED DIRECTLY
PA LAW REQUIRES THREE WORKING DAYS
NOTICE TO UTILITIES BEFORE YOU EXCAVATE,
DRILL, BLAST OR DEMOLISH.

SERIAL NUMBER 20242262716

KCSA Architects
Eight East Broad Street
Plymouth Meeting, PA 19462-2471
P 215.368.5806
F 215.368.5806
kcsaarchitects.com



A NEW FIRE STATION
FOR
HARMONVILLE FIRE COMPANY -
PLYMOUTH VALLEY STATION
PLYMOUTH MEETING TWP. MONTGOMERY COUNTY, PA

REVISIONS	MARK	DATE	DESCRIPTION

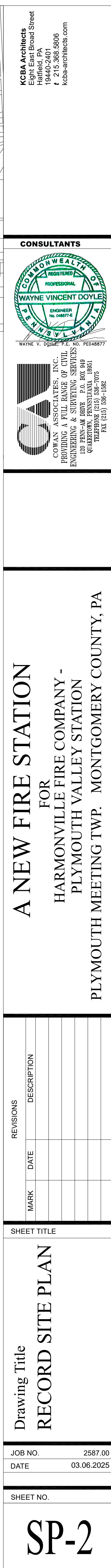
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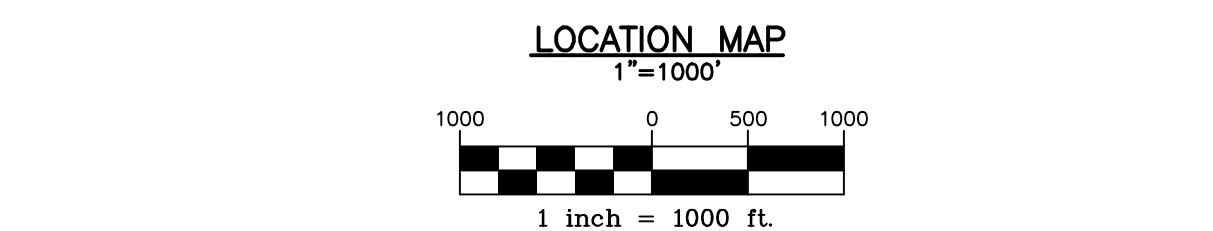
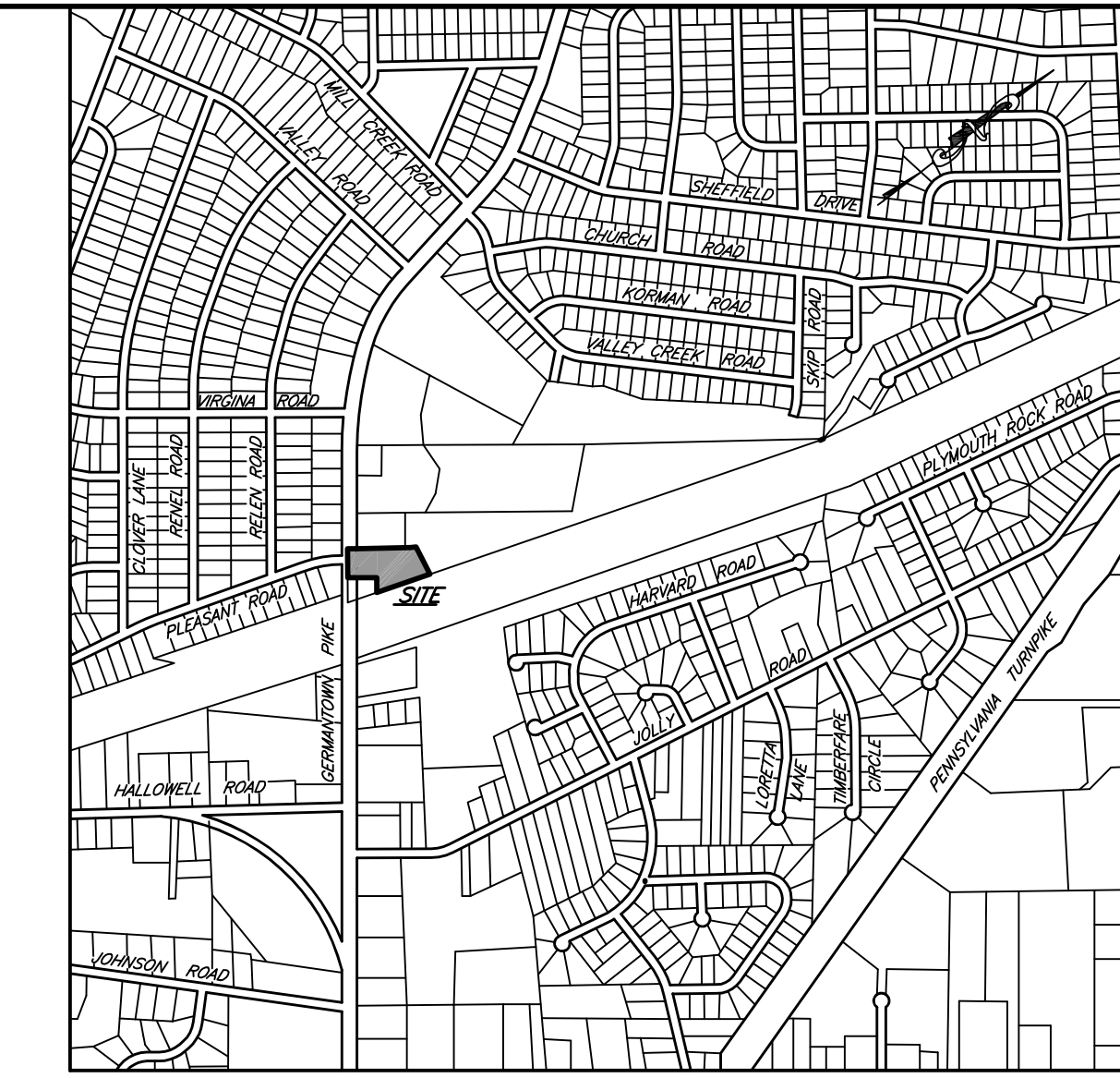
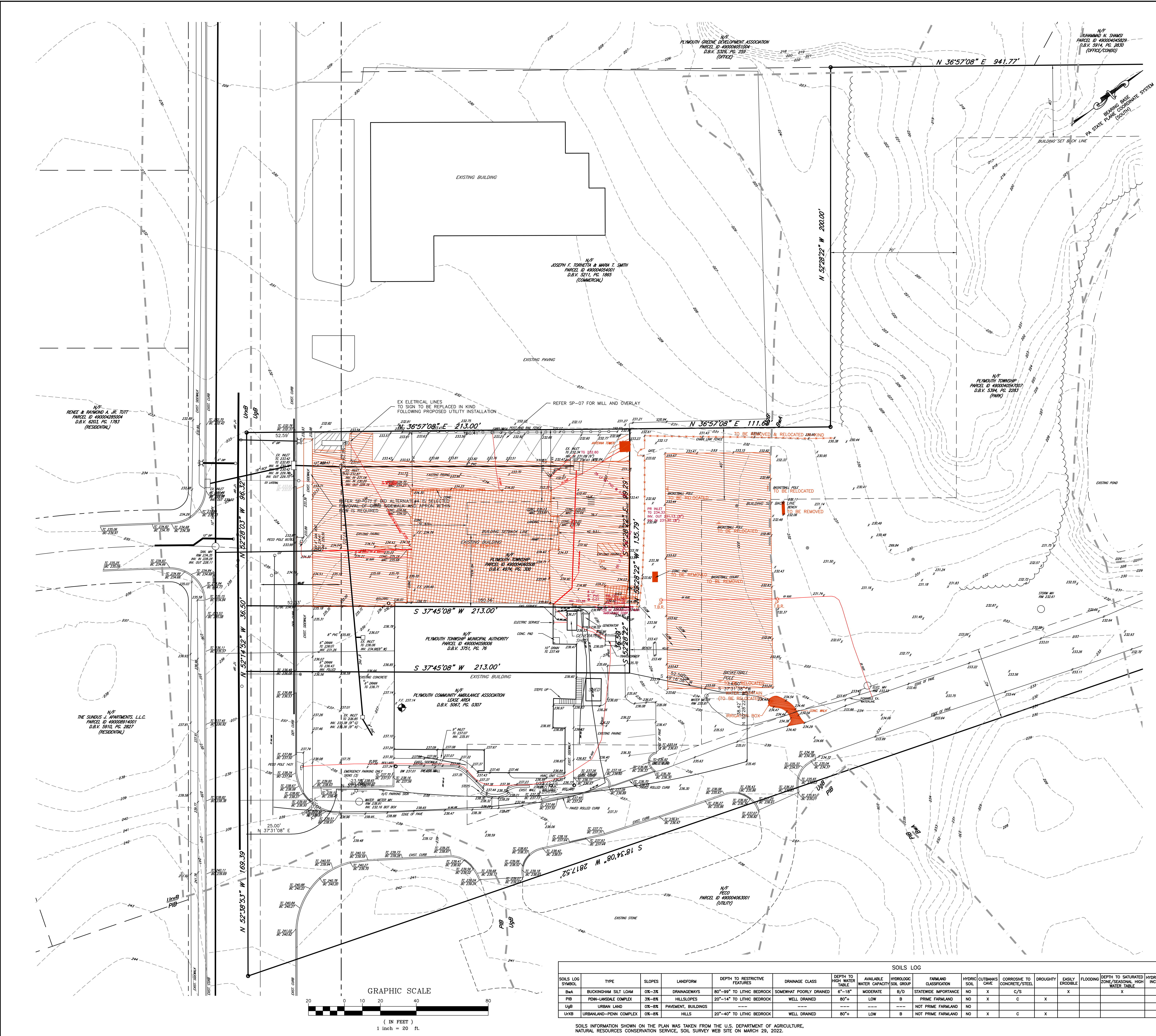
Drawing Title
COVER

JOB NO. 2587.00
DATE 03.06.2025

SHEET NO.

SP-1





- BENCHMARK = FINISHED FLOOR OF EXISTING AMBULANCE BUILDING. ELEVATION 237.14
- EXISTING UTILITIES NOT LOCATED VIA TOPOGRAPHICAL SURVEY SHALL BE FIELD EXCAVATED BY THE CONTRACTOR AND RELOCATED/REPLACED AS NECESSARY
- EXISTING WATERMAIN TAKEN FROM AQUA PENNSYLVANIA INCORPORATED, MAIN REPLACEMENT FOR: WEST GERMANTOWN PIKE, SHEET 6 OF 10, LAST REVISED 5/13/13.

PAENNSYLVANIA ONE CALL SYSTEM, INC.
822 IRWIN RUN ROAD
WEST MIFFLIN, PENNSYLVANIA
15122-1078

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SERIAL NUMBER 20242262716

SOILS LOG											
SOILS LOG SYMBOL	TYPE	SLOPES	LANDFORM	DEPTH TO RESTRICTIVE FEATURES	DRAINAGE CLASS	DEPTH TO HIGH WATER TABLE	AVAILABLE WATER CAPACITY	SOIL GROUP	FRANKLIN CLASSIFICATION	HYDRIC SOIL	OUTBANKS CAVE
bwa	BUCKINGHAM SILT LOAM	0%-3%	DRAINAGEWAYS	80"-99" TO LITHIC BEDROCK	SOMEWHAT POORLY DRAINED	6"-18"	MODERATE	B/D	STATEWIDE IMPORTANCE	NO	X
pib	PENN-LANSDALE COMPLEX	3%-8%	HILLSLOPES	20"-14" TO LITHIC BEDROCK	WELL DRAINED	80"+	LOW	B	PRIME FARMLAND	NO	X
uqb	URBAN LAND	0%-8%	PAVEMENT, BUILDINGS	---	---	---	---	---	NOT PRIME FARMLAND	NO	X
uxb	URBANLAND-PENN COMPLEX	0%-8%	HILLS	20"-40" TO LITHIC BEDROCK	WELL DRAINED	80"+	LOW	B	NOT PRIME FARMLAND	NO	X

SOILS INFORMATION SHOWN ON THE PLAN WAS TAKEN FROM THE U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, SOIL SURVEY WEB SITE ON MARCH 29, 2022.

KCBA Architects
Eight East Broad Street
Harrisburg, PA 17101
P 717-658-5806
F 717-658-5806
kcba-architects.com

CONSULTANTS

WAYNE VINCENT DOYLE, INC.
1000 N. MARKET STREET, SUITE 200
HARRISBURG, PA 17102
P 717-658-5806
F 717-658-5806
wvdoyle.com

COWAN ASSOCIATES, INC.
1000 N. MARKET STREET, SUITE 200
HARRISBURG, PA 17102
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cowan-associates.com

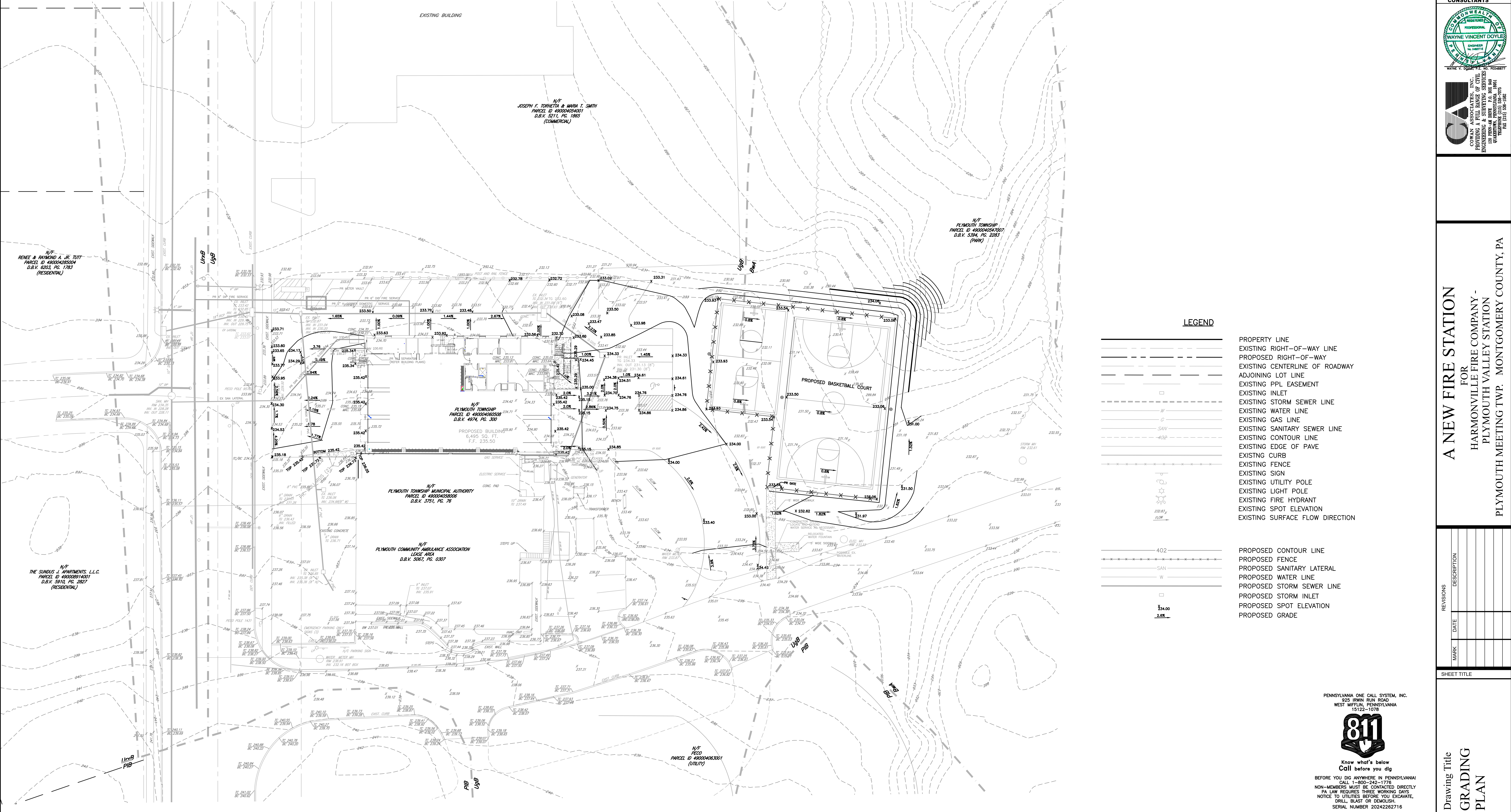
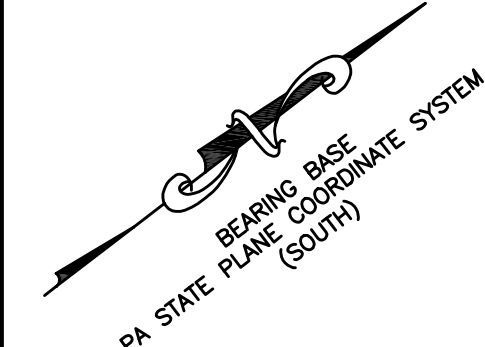
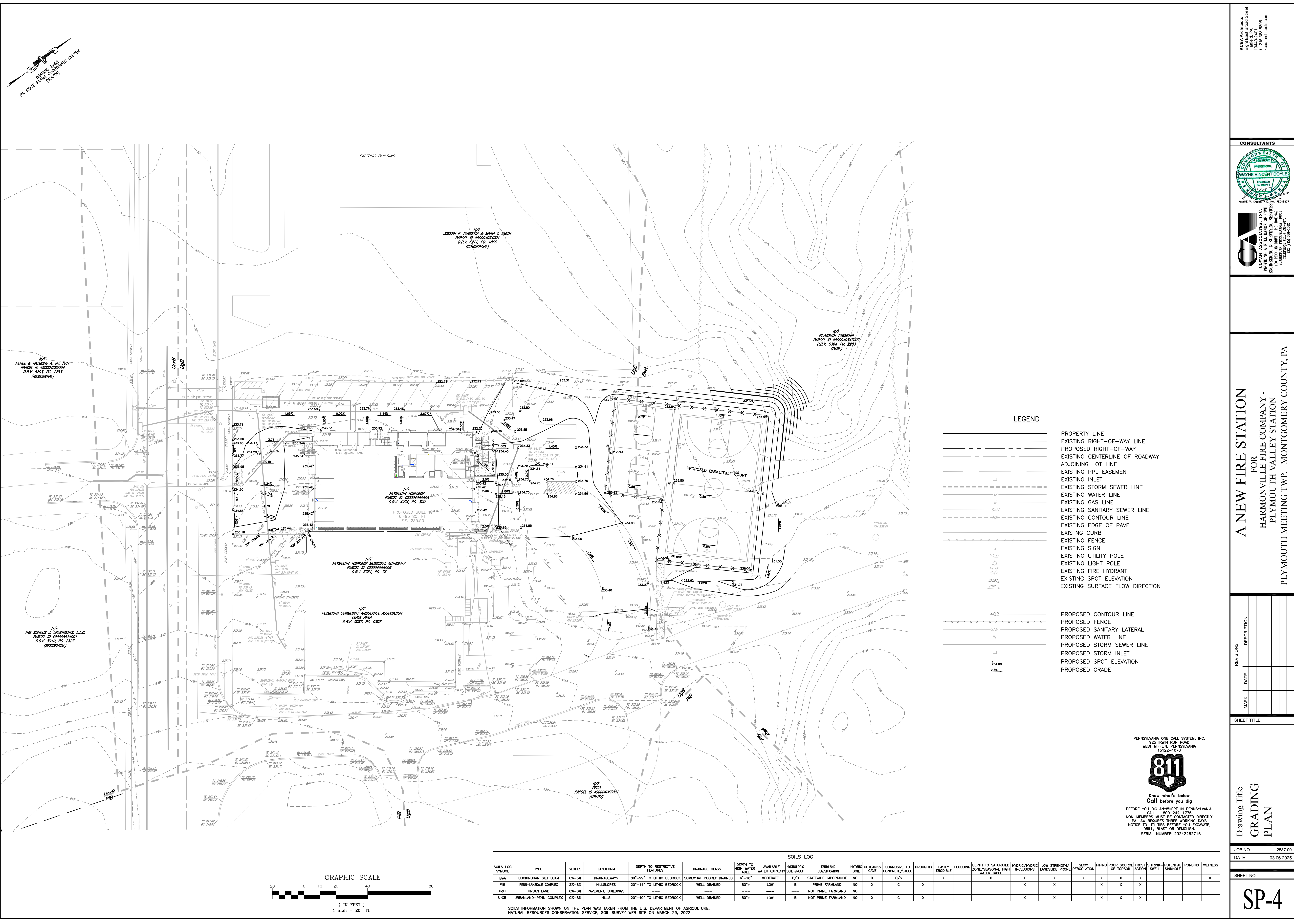
A NEW FIRE STATION
FOR
HARMONYVILLE FIRE COMPANY -
PLYMOUTH VALLEY FIRE STATION
PLYMOUTH MEETING TWP. MONTGOMERY COUNTY, PA

REVISIONS	DATE	DESCRIPTION

SHEET TITLE	
Drawing Title	EXISTING FEATURES & DEMOLITION PLAN

JOB NO.	2587.00
DATE	03.06.2025
SHEET NO.	

SP-3



GRAPHIC SCALE

(IN FEET)

1 inch = 20 ft.

SOILS LOG

SOILS LOG SYMBOL	TYPE	SLOPES	LANDFORM	DEPTH TO RESTRICTIVE FEATURES	DRAINAGE CLASS	DEPTH TO HIGH WATER TABLE	AVAILABLE WATER CAPACITY	HYDROLOGIC SOIL GROUP	FRANKLIN CLASSIFICATION	HYDRIC SOIL	OUTBANKS CAVE	CORROSION TO CONCRETE/STEEL	DROUGHTY	EASILY ERODIBLE	FLOODING	DEPTH TO SATURATED ZONE/SEASONAL HIGH WATER TABLE	HYDRIC/HYDRIC INCLUSIONS	LOW STRENGTH/LANDSLIDE PRONE	SLOW PERCOLATION	PIPING/POOR SOURCE OF TOPSOIL	FROST ACTION	SHRINK-POTENTIAL SWELL	PONDING	WETNESS
BwA	BUCKINGHAM SILT LOAM	0%-3%	DRAINAGEWAYS	80"-99" TO LITHIC BEDROCK	SOMEWHAT POORLY DRAINED	6"-18"	MODERATE	B/D	STATEWIDE IMPORTANCE	NO	X	C/S	X	X		X	X	X	X	X	X			X
PIB	PENN-LANSDALE COMPLEX	3%-8%	HILLSLOPES	20"-14" TO LITHIC BEDROCK	WELL DRAINED	80"+	LOW	B	PRIME FARMLAND	NO	X	C	X				X	X		X	X			
UgB	URBAN LAND	0%-8%	PAVEMENT, BUILDINGS	---	---	---	---	---	NOT PRIME FARMLAND	NO														
UxB	URBANLAND-PENN COMPLEX	0%-8%	HILLS	20"-40" TO LITHIC BEDROCK	WELL DRAINED	80"+	LOW	B	NOT PRIME FARMLAND	NO	X	C	X				X	X		X	X			

811

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BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA
CALL 1-800-242-1776
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SERIAL NUMBER 20242262716

JOB NO. 2587.00

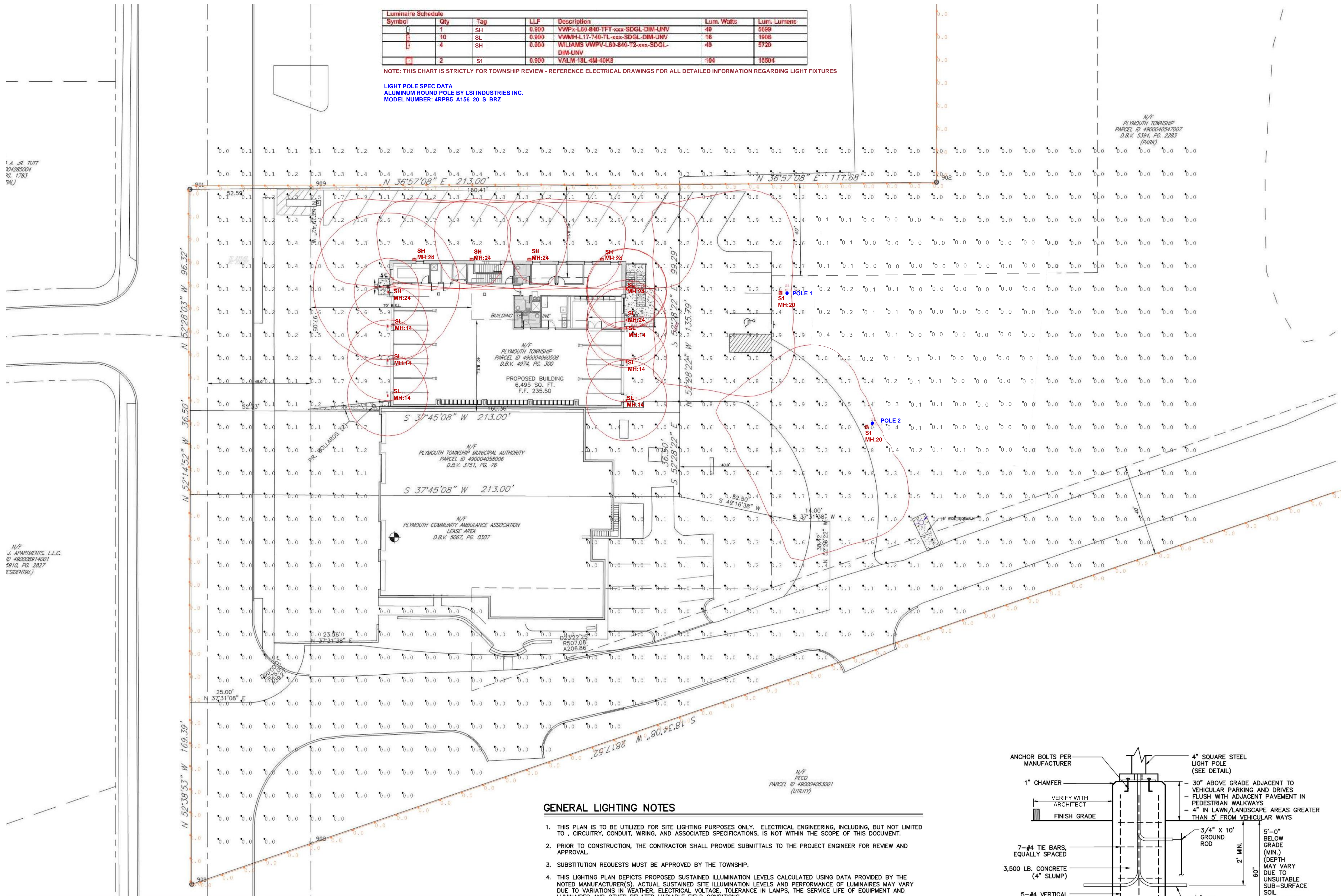
DATE 03.06.2025

SHEET NO.

Drawing Title
GRADING PLAN

SP-4

SOILS INFORMATION SHOWN ON THE PLAN WAS TAKEN FROM THE U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, SOIL SURVEY WEB SITE ON MARCH 29, 2022.



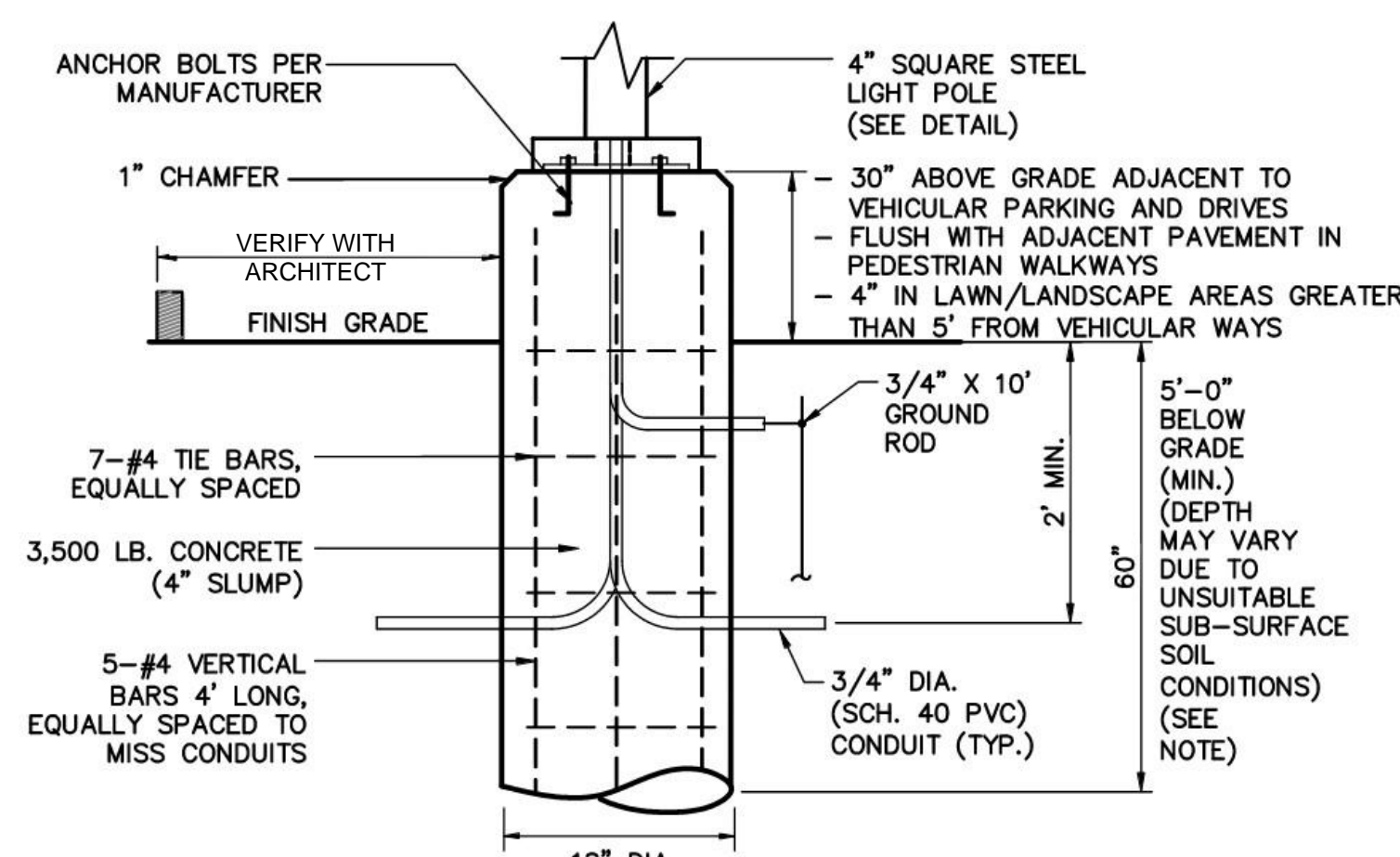
Luminaire Schedule					
Symbol	Qty	Tag	LLF	Description	Lum. Watts
1	1	SH	0.900	VWPV-L69-840-TFT-xxx-SDGL-DIM-UNV	49
10	10	SL	0.900	VWMH-L17-740-TL-xxx-SDGL-DIM-UNV	16
4	4	SH	0.900	WILLIAMS WWPV-L69-840-T2-xxx-SDGL-DIM-UNV	49
2	2	S1	0.900	VALM-18L-4M-40K8	104

NOTE: THIS CHART IS STRICTLY FOR TOWNSHIP REVIEW - REFERENCE ELECTRICAL DRAWINGS FOR ALL DETAILED INFORMATION REGARDING LIGHT FIXTURES

LIGHT POLE SPEC DATA
ALUMINUM ROUND POLE BY LSI INDUSTRIES INC.
MODEL NUMBER: 4RPB5 A156 20 S BRZ

GENERAL LIGHTING NOTES

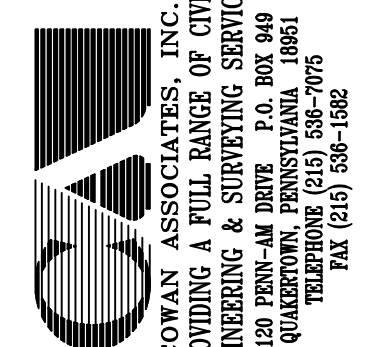
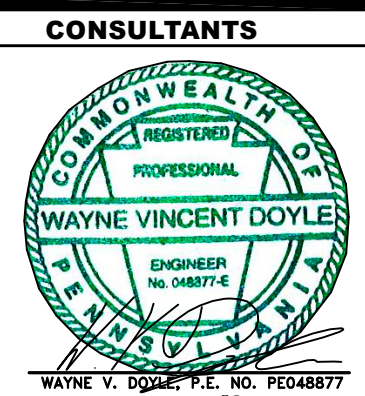
- THIS PLAN IS TO BE UTILIZED FOR SITE LIGHTING PURPOSES ONLY. ELECTRICAL ENGINEERING, INCLUDING, BUT NOT LIMITED TO, CIRCUITRY, CONDUIT, WIRING, AND ASSOCIATED SPECIFICATIONS, IS NOT WITHIN THE SCOPE OF THIS DOCUMENT.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE PROJECT ENGINEER FOR REVIEW AND APPROVAL.
- SUBSTITUTION REQUESTS MUST BE APPROVED BY THE TOWNSHIP.
- THIS LIGHTING PLAN DEPICTS PROPOSED SUSTAINED ILLUMINATION LEVELS CALCULATED USING DATA PROVIDED BY THE NOTED MANUFACTURER(S). ACTUAL SUSTAINED SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, THE SERVICE LIFE OF EQUIPMENT AND LUMINAIRES AND OTHER RELATED VARIABLE FIELD CONDITIONS.
- THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ON THIS PLAN ARE ALL ANALYZED ON A HORIZONTAL GEOMETRIC PLAN AT ELEVATION ZERO (GROUND LEVEL) UNLESS OTHERWISE NOTED. THE VALUES DEPICTED ON THIS PLAN ARE IN FOOTCANDLES.
- LIGHTING VALUES DEPICTED ON THIS PLAN WERE GENERATED USING VISUAL 2020R2 SOFTWARE.
- THIS LIGHTING PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPES OF FIXTURES ONLY. POWER SYSTEM, CONDUITS, WIRING, VOLTAGES AND OTHER ELECTRICAL COMPONENTS ARE THE RESPONSIBILITY OF THE ARCHITECT, MEP AND/OR LIGHTING CONTRACTOR. THESE ITEMS MUST BE INSTALLED AS REQUIRED BY STATE AND LOCAL REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR INSTALLING LIGHTING FIXTURES AND APPURTENANCES IN ACCORDANCE WITH ALL APPLICABLE BUILDING AND ELECTRICAL CODES AND ALL OTHER APPLICABLE RULES, LAWS AND STATUTES.
- CONTRACTOR SHALL BRING TO THE DESIGNER'S ATTENTION, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ANY LIGHT LOCATIONS THAT CONFLICT WITH DRAINAGE, UTILITIES OR OTHER STRUCTURES.



- NOTES(S):
- FOOTING DEPTH MAY VARY DUE TO UNSUITABLE SUB-SURFACE SOIL CONDITIONS. VERIFY IN FIELD.
 - 3" OF CONCRETE COVER SHALL BE PROVIDED OVER ALL REINFORCEMENT BARS.
 - COORDINATE ELECTRICAL CONDUIT AND GROUNDING WITH ELECTRICAL DRAWINGS AND SPECIFICATIONS

STANDARD LIGHT BASE DETAIL
NOT TO SCALE

PENNSYLVANIA ONE CALL SYSTEM, INC.
925 IRWIN RUN ROAD
WEST MIFFLIN, PENNSYLVANIA
15122-1078
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SERIAL NUMBER 2024282716



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PLYMOUTH VALLEY STATION
PLYMOUTH MEETING TWP. MONTGOMERY COUNTY, PA

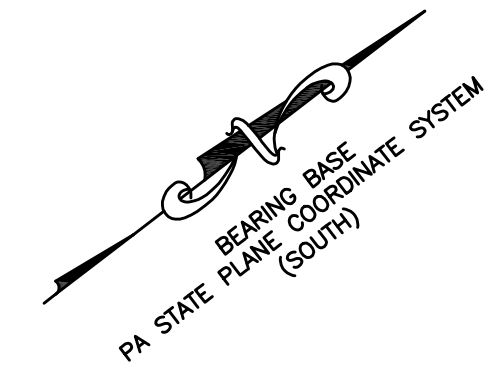
REVISIONS		DESCRIPTION
MARK	DATE	

SHEET TITLE

Drawing Title
SITE LIGHTING

JOB NO. 2587.00
DATE 03.06.2025
SHEET NO.

SP-6



LEGEND

	PROPERTY LINE
	EXISTING RIGHT-OF-WAY LINE
	PROPOSED RIGHT-OF-WAY LINE
	EXISTING CENTERLINE OF ROADWAY
	ADJOINING LOT LINE
	EXISTING PPL EASEMENT
	EXISTING INLET
	EXISTING STORM SEWER LINE
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING SANITARY SEWER LINE
	EXISTING CONTOUR LINE
	EXISTING EDGE OF PAVE
	EXISTING CURB
	EXISTING FENCE
	EXISTING SIGN
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING FIRE HYDRANT
	EXISTING DECIDUOUS TREE
	EXISTING PINE TREE
	EXISTING SHRUB
	PROPOSED STORM INLET
	PROPOSED CONCRETE (STANDARD)
	PROPOSED HEAVY DUTY ASPHALT PAVEMENT
	PROPOSED STANDARD ASPHALT PAVEMENT
	PROPOSED BASKETBALL PAVEMENT
	PROPOSED HEAVY DUTY CONCRETE PAVEMENT
	PROPOSED 2" MILL AND OVERLAY
	PROPOSED 2" MILL AND 3" OVERLAY TO PROVIDE PROPOSED GRADING

ALTERNATE #1:

Attribute #2 - Concrete Apron

- 1 Base: Provide concrete apron on both sides of apparatus bay as indicated on this drawing.
- 2 Slope: Match BD. Heavy duty asphalt paving in lieu of concrete aprons.
- 3 Slope: In lieu of the concrete aprons, provide heavy duty asphalt paving as specified on civil drawings in location where concrete aprons are scheduled.
- 4 As defined by the construction documents and any reference to Alternate #2

Attribute #4 - Curb and sidewalk.

- 1 Base: BD. Construct sidewalks as indicated on the civil drawings (curb sidewalk and concrete apron within Germantown Pike ROW to remain).
- 2 Slope: Match BD. Heavy duty asphalt paving in lieu of concrete aprons as indicated on the drawings.
- 3 Slope: Remove existing sidewalk and curbs to the extent shown on the civil drawings and replace with new curbing and sidewalk as specified by civil drawings.
- 4 As defined by the construction documents and any reference to Alternate #4.

Attribute #6 - Post and rail wood fence.

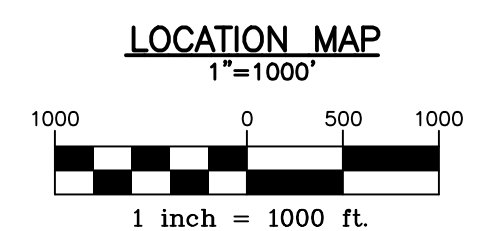
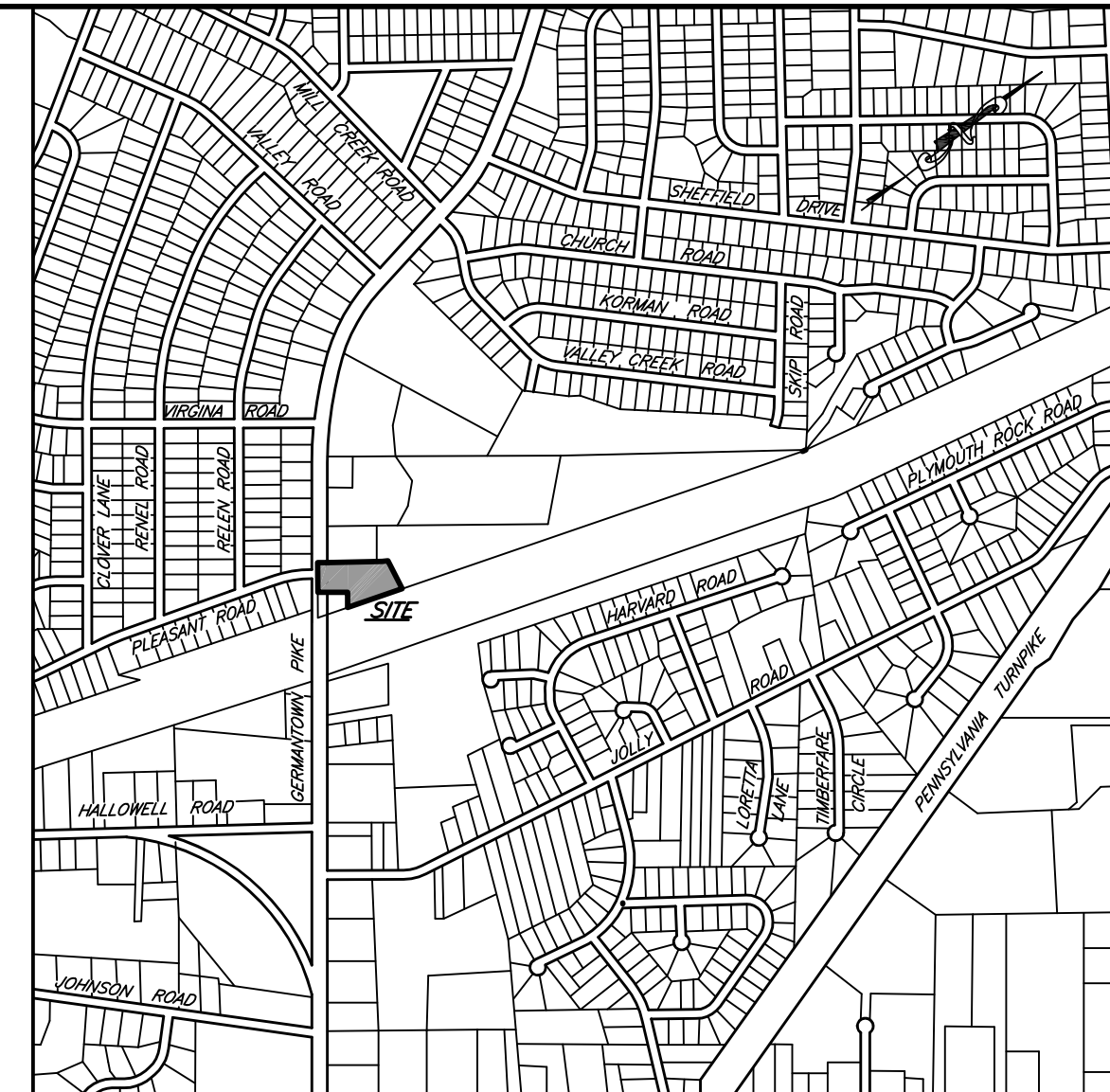
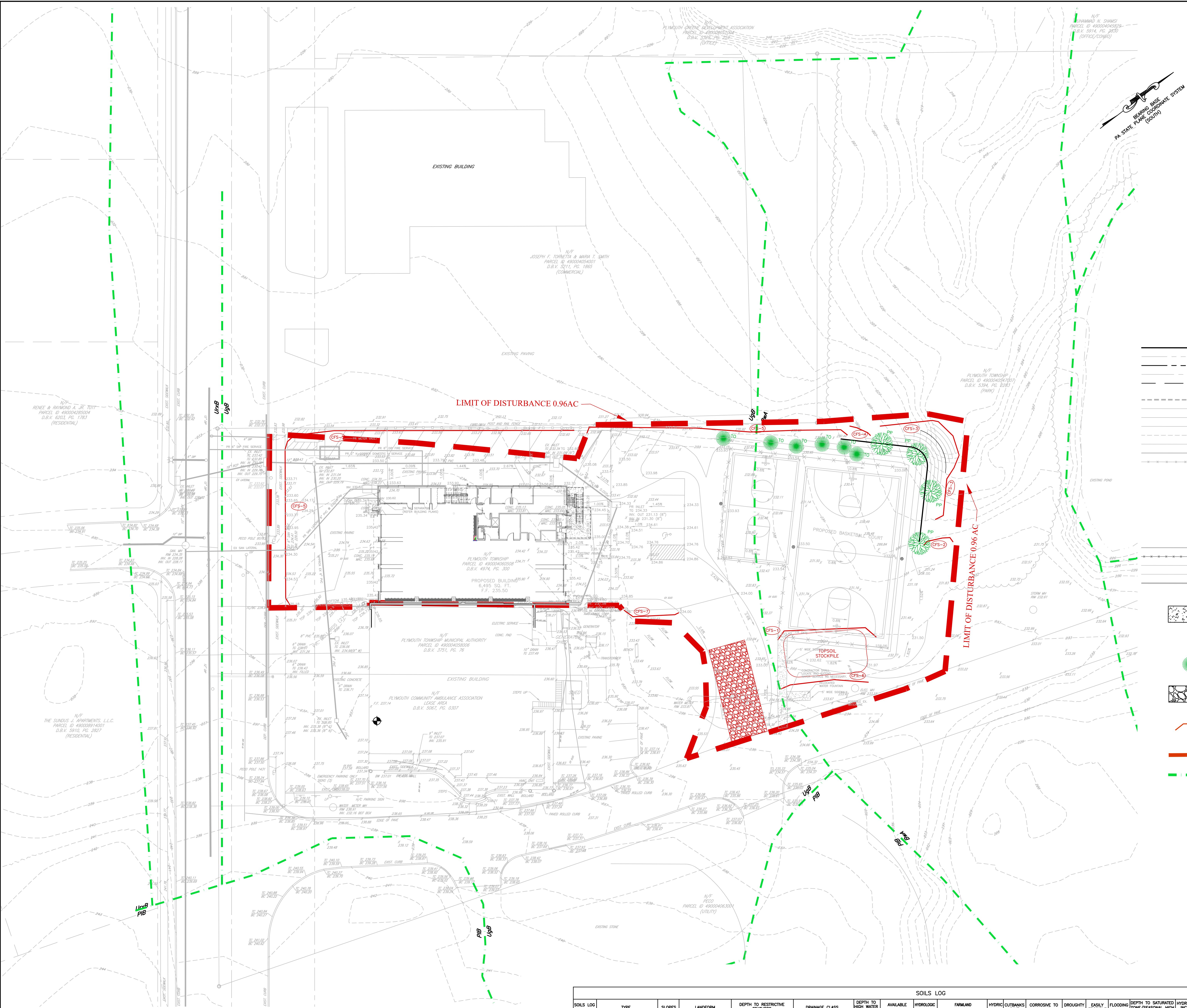
- 1 Base: BD. Existing post and rail wood fence to remain.
- 2 Slope: Replace existing rail and wood fence with new matching post and rail wood fence.
- 3 Slope: Replace existing fence in its entirety. Replace in kind with new fence. In addition, extend new fence to the end of the new parking area (approximately 3 parking spaces).
- 4 As defined by the construction documents and any reference to Alternate #7.

PENNSYLVANIA ONE CALL SYSTEM, INC.
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- LEGEND**
- PROPERTY LINE
 - EXISTING RIGHT-OF-WAY LINE
 - PROPOSED RIGHT-OF-WAY
 - EXISTING CENTERLINE OF ROADWAY
 - ADJOINING LOT LINE
 - EXISTING INLET
 - EXISTING STORM SEWER LINE
 - EXISTING WATER LINE
 - EXISTING GAS LINE
 - EXISTING SANITARY SEWER LINE
 - EXISTING CONTOUR LINE
 - EXISTING EDGE OF PAVE
 - EXISTING CURB
 - EXISTING FENCE
 - EXISTING SIGN
 - EXISTING UTILITY POLE
 - EXISTING LIGHT POLE
 - EXISTING FIRE HYDRANT
 - EXISTING DECIDUOUS TREE
 - EXISTING PINE TREE
 - EXISTING SHRUB
 - PROPOSED CONTOUR LINE
 - PROPOSED FENCE
 - PROPOSED SANITARY LATERAL
 - PROPOSED WATER LINE
 - PROPOSED STORM SEWER LINE
 - PROPOSED STORM INLET
 - PROPOSED CONCRETE
 - PROPOSED TREE
 - ROCK CONSTRUCTION ENTRANCE
 - COMPOST FILTER SOCK
 - LIMIT OF DISTURBANCE
 - SOILS LINE (WEB SOIL SURVEY SITE)

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PiB	PENN-LANSDALE COMPLEX	3%-8%	HILLSLOPES	20"-14" TO LITHIC BEDROCK	WELL DRAINED	80"+	LOW	B	PRIME FARMLAND	NO	X	C	X	X
UgB	URBAN LAND	0%-8%	PAVEMENT, BUILDINGS	---	---	---	---	---	NOT PRIME FARMLAND	NO	X	C	X	X
UxB	URBANLAND-PENN COMPLEX	0%-8%	HILLS	20"-40" TO LITHIC BEDROCK	WELL DRAINED	80"+	LOW	B	NOT PRIME FARMLAND	NO	X	C	X	X

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CONSULTANTS

CONTOUR WEALTH
WAYNE VINCENT DOYLE
15122-1076

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COWAN ASSOCIATES, INC.
PENNSYLVANIA CIVIL ENGINEERING
133 PENN-AM DRIVE, PA. BOX 469
QUAKERTOWN, PA 17351
P 610-836-1868

A NEW FIRE STATION
FOR
HARMONVILLE FIRE COMPANY -
PLYMOUTH VALLEY FIRE STATION
PLYMOUTH MEETING TWP. MONTGOMERY COUNTY, PA

REVISIONS	DATE	DESCRIPTION
MARK		

SHEET TITLE

EROSION CONTROL PLAN

Drawing Title

JOB NO. 2587.00
DATE 03.06.2025
SHEET NO.

SP-8

1. STANDARD EROSION AND SEDIMENT CONTROL PLAN NOTES
2. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
3. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE DEVELOPER'S CONTRACTOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARED TO AN ON-SITE PRECONSTRUCTION MEETING.
4. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
5. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE MUNICIPALITY.
6. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
7. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPs SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
8. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
9. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 30 FEET. STOCKPILE SLOPES SHALL BE 2:1V OR FLATTER.
10. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE DEVELOPER'S CONTRACTOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE TOWNSHIP.
11. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET. SED., 271.1, AND 287.1 ET. SED. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THIS SITE.
12. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
13. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
14. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS. ALL PUMPING OF SEDIMENT LOADED WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER NON-DISTURBED AREAS.
15. VEHICLES AND EQUIPMENT MAY ONLY ENTER AND EXIT THE CONSTRUCTION SITE VIA A STABILIZED ROCK CONSTRUCTION ENTRANCE.
16. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. THE DEVELOPER'S CONTRACTOR WILL MAINTAIN AND MAKE AVAILABLE TO LOCAL COUNTY CONSERVATION DISTRICT COMPLETE WRITTEN INSPECTION LOGS OF ALL THOSE INSPECTIONS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, RESEEDING, REGRADING, RESEEDING, REGRADING AND RESEEDING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
17. A LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
18. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
19. ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES.
20. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES ~ 6 TO 12 INCHES ON COMPACTED SOILS ~ PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
21. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SURFACE SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
22. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
23. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
24. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
25. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
26. SLEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
27. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
28. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE DEVELOPER'S CONTRACTOR SHALL STABILIZE ALL DISTURBED AREAS DURING NON-GERMINATING WINTER, MULCH OR OTHER PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
29. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
30. EROSION AND SEDIMENT BMPs MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPs. E&S BMPs SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
31. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPs.
32. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPs. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPs SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
33. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE DEVELOPER'S CONTRACTOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
34. FAILURE TO CORRECTLY INSTALL E&S BMPs, FAILURE TO PREVENT SEDIMENT-LOADED RUNOFF FROM LEAVING THE CONSTRUCTION SITE OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPs MAY RESULT IN ADMINISTRATIVE, CIVIL AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.
35. IN THE EVENT OF SINKHOLE DISCOVERY A PROFESSIONAL GEOLOGIST OR ENGINEER WILL BE CONTACTED CONCERNING MITIGATION. ADDITIONALLY, THE LOCAL COUNTY CONSERVATION DISTRICT WILL BE MADE AWARE OF THE SINKHOLE DISCOVERY IMMEDIATELY.
36. THE DEVELOPER'S CONTRACTOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED.
37. THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF THE APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS, TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUBPART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.
38. AT STREAM CROSSINGS, 50' BUFFER AREAS SHOULD BE MAINTAINED, ON BUFFERS, CLEARING, SOD DISTURBANCES, EXCAVATION, AND EQUIPMENT TRAFFIC SHOULD BE MINIMIZED. ACTIVITIES SUCH AS STACKING LOGS, BURNING CLEARED BRUSH, DISCHARGING RAINWATER FROM TRENCHES, WELDING PIPE SECTIONS, REFUELING AND MAINTAINING EQUIPMENT SHOULD BE ACCOMPLISHED OUTSIDE OF BUFFERS.
39. ALL WETLANDS MUST BE DELINEATED AND PROTECTED WITH ORANGE SAFETY FENCE PRIOR TO ANY EARTH-MOVING ACTIVITY.
40. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN.
41. ALL CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION, AND CONSTRUCTION MATERIAL/WASTES.

TEMPORARY CONTROL MEASURES

1. LIMITING EXPOSES AREAS.
2. SURFACE WATER ROUTING. ALL ON-SITE SURFACE WATER SHOULD BE ROUTED AWAY FROM EXCAVATIONS.
3. STABILIZATION. ANY DISTURBED AREA SHALL BE STABILIZED AS SOON AS POSSIBLE.
4. INTERIM STABILIZATION. WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA, INTERIM STABILIZATION MEASURES SHALL BE IMPLEMENTED PROMPTLY.
5. COLLECTION AND RUNOFF. ALL RUNOFF FROM SUBJECT PROJECT AREA SHALL BE COLLECTED AND DIVERTED TO FACILITIES FOR THE REMOVAL OF SEDIMENT. RUNOFF SHALL NOT BE DISCHARGED TO THE WATERS OF THE COMMONWEALTH WITHOUT MEANS TO PREVENT SEDIMENTATION. REQUIREMENTS FOR TEMPORARY COVER SHALL BE ACCORDING TO TEMPORARY SEEDING NOTES, EROSION CONTROL PLAN, AND SHALL CONFORM TO STANDARDS AND REQUIREMENTS SET FORTH IN THE SOIL EROSION AND SEDIMENTATION CONTROL MANUAL.
6. IN THE EVENT THAT GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION, SAID GROUNDWATER SHALL BE PUMPED TO A DIRT BAG FOR REMOVAL OF ANY SEDIMENT.
7. TEMPORARY CONTROLS SHALL BE PERIODICALLY CHECKED, CLEANED AND/OR REPLACED, AS CONDITIONS DICTATE. MAINTENANCE CONTROL PROGRAM THE CONTRACTOR SHALL SEE TO IT THAT ALL PROCEDURES ARE ADHERED TO CONCERNING EROSION AND SEDIMENT CONTROL MAINTENANCE.

THE FOLLOWING INFORMATION RELATIVE TO MATERIAL RECYCLING & DISPOSAL, AND FILL IS PROVIDED FOR THE SOLE PURPOSE OF GUIDANCE ONLY. COMPLIANCE WITH THESE GUIDELINES DOES NOT IMPLY OR PROVIDE ANY WARRANTY FOR ANY RELEASE OF LIABILITY FROM LOCAL, STATE, OR FEDERAL REQUIREMENTS, REGULATIONS, AND/OR STATUTES, AND/OR DOES NOT IMPLY OR PROVIDE ANY WARRANTY FOR ANY RELEASE FROM COMPLIANCE WITH OBLIGATIONS AS MAY BE SET FORTH BY CONTRACTUAL SPECIFICATIONS.

RECYCLING & DISPOSAL

1. BUILDING MATERIALS & WASTES: THE CONTRACTOR/LAND OWNER SHALL REMOVE FROM THE SITE, RECYCLE, AND/OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS (25 PA CODE 260.1 ET. SED., 271.1 ET. SED., AND 287.1 ET. SED.), AND/OR IN ACCORDANCE WITH ANY LOCAL, COMMONWEALTH, OR FEDERAL REGULATIONS. THE OPERATOR/CONTRACTOR/LAND OWNER SHALL NOT ILLEGALLY BURY, DUMP, BURN, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THE SITE.
2. TREES, STUMPS AND BRUSH: CLEARING WASTE SHALL NOT BE BURIED OR BURNED. SUCH MATERIALS SHALL BE GROUND AND USED AS MULCH OR HAULED TO A MULCH RECYCLING FACILITY.
3. CEMENT CONCRETE WASTE MATERIAL: CEMENT CONCRETE WASTE MATERIALS MAY BE CRUSHED AND USED AS FILL WHEN POSSIBLE.
4. BITUMINOUS CONCRETE AND PAVING WASTE MATERIAL: SUCH MATERIALS SHALL NOT BE BURIED IN BULK ON-SITE. BITUMINOUS PAVING WASTES MAY BE CRUSHED/MILLED AND MIXED WITH AGGREGATE MATERIALS USED FOR CONSTRUCTION OF SIDEWALKS OR PARKING AREAS OUTSIDE OF PUBLIC RIGHT-OF-WAY, OR IN THE ALTERNATE HAULED TO A FACILITY EQUIPPED TO RECYCLE SUCH MATERIAL. BITUMINOUS MATERIALS SUCH AS PAVEMENT SEALER, ROOFING MATERIAL, ETC. MUST BE DISPOSED OF AS BUILDING WASTE MATERIAL.
5. ROCK WASTE: ALL ROCK THAT IS SUITABLE FOR LANDSCAPING PURPOSES MAY BE UTILIZED ON-SITE OR AT ANOTHER FACILITY. ROCK MAY ALSO BE CRUSHED AND UTILIZED AS AGGREGATE CONSTRUCTION MATERIAL PROVIDED IT MEETS REQUIRED SPECIFICATIONS FOR SUCH USE AND IS APPROVED FOR USE BY THE MUNICIPALITY AND/OR PENN DOT. ROCK MAY ALSO BE BURIED ON-SITE PROVIDED DISPOSAL PIT IS LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY AND ANY EASEMENTS; AND PROVIDED THE EXCAVATION, PLACEMENT AND BACKFILLING IS ACCOMPLISHED IN SUCH A MANNER THAT VOIDING IS ELIMINATED.
6. SOIL WASTE: ALL EXCAVATED CLEAN FILL SOILS MAY BE UTILIZED ON-SITE AS FILL MATERIAL. EXCESS MATERIAL REMOVED FROM THE SITE MAY BE DISPOSED AT A LOCATION THAT HAS AN APPROVED WASTE PERMIT (WHERE APPLICABLE); AN EROSION CONTROL PLAN APPROVED BY THE COUNTY CONSERVATION DISTRICT; AND WHERE ALL APPLICABLE EROSION CONTROL BMPs HAVE BEEN PROPERLY INSTALLED AND IMPLEMENTED.
7. BMP SEDIMENT DISPOSAL: SEDIMENT REMOVED FROM BMP'S SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOOD PLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES.
- A. LANDSCAPED AREAS SHALL BE UPLAND AREAS OUTSIDE OF ALL OTHER REGULATED WATERS OF THE COMMONWEALTH OF PA, AND ALL OTHER REGULATED WATERS OF THE UNITED STATES.
- B. DOWNGRADE PERIMETER OF THE LANDSCAPED AREAS SHALL BE PROTECTED WITH SILT FENCE.
- C. SEDIMENTS USED AS A TOPSOIL COVER IN LANDSCAPED AREAS SHALL BE EVENLY SPREAD OVER THE DISPOSAL AREA.
- D. IF THE LANDSCAPED AREA GRADING IS TEMPORARY, AREA SHALL BE IMMEDIATELY STABILIZED IN ACCORDANCE WITH TEMPORARY (INTERIM) REQUIREMENTS.
- E. IF THE LANDSCAPED AREA GRADING IS PERMANENT, AREA SHALL BE IMMEDIATELY STABILIZED IN ACCORDANCE WITH PERMANENT (FINAL) REQUIREMENTS.
- F. WHEN THE LANDSCAPED AREA HAS 70% UNIFORM PERENNIAL VEGETATIVE COVER OF SUFFICIENT DENSITY TO RESIST ACCELERATED EROSION, ALL TEMPORARY CONTROL WILL BE REMOVED, AND DISPOSED OF PROPERLY.

IMPORTED FILL

THE OPERATOR SHALL BE RESPONSIBLE TO THE OWNER, TO PERFORM ENVIRONMENTAL DUE DILIGENCE AND DETERMINE THAT ALL FILL IMPORTED TO THE SITE MEETS THE PA DEP DEFINITION OF CLEAN FILL.

EXPORTED FILL

THE PROPERTY OWNER/APPLICANT IS RESPONSIBLE FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE TO DETERMINE THAT ANY FILL EXPORTED FROM THE SITE WILL BE DISPOSED AS CLEAN FILL. THE OPERATOR SHALL NOT HAUL ANY MATERIAL FROM THE SITE UNLESS AND UNTIL THE PROPERTY OWNER/APPLICANT HAS DETERMINED THAT THE MATERIAL IS CLEAN FILL. IN THE ALTERNATE, THE OPERATOR SHALL NOT HAUL ANY FILL FROM THE SITE UNLESS AND UNTIL THE OPERATOR HAS PERFORMED THE NECESSARY ENVIRONMENTAL DUE DILIGENCE AND CAN CERTIFY TO THE PROPERTY OWNER/APPLICANT THE ALL FILL EXPORTED FROM THE SITE MEETS THE PA DEP DEFINITION OF CLEAN FILL.

PA DEP BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT DOCUMENT NO. 258-2182-773 (EFFECTIVE 02-29-96) POLICY: "CLEAN FILL" IS DEFINED IN THE MUNICIPAL AND RESIDUAL REGULATIONS AS "UNCONTAMINATED, NONWATER-SOLUBLE, INERT SOLID MATERIAL USED TO LEVEL AN AREA OR BRING AN AREA TO GRADE". UNDER THE MUNICIPAL WASTE REGULATIONS, THE DEFINITION OF "CLEAN FILL" INCLUDES NON-DECOMPOSABLE MATERIALS. THE TERM DOES NOT INCLUDE MATERIAL PLACED INTO OR ON WATERS OF THE COMMONWEALTH. THIS POLICY, BY SETTING UP CRITERIA FOR CHEMICAL CONTAMINANTS, DEFINES WHAT IS MEANT BY "CONTAMINATED" SOILS, ROCK, STONE, GRAVEL, UNUSED BRICK AND BLOCK, CONCRETE, AND USED ASPHALT. CLEAN MATERIALS THAT MEET THESE CRITERIA MAY BE CONSIDERED UNCONTAMINATED FOR USE AS CLEAN FILL.

THE USE OF THESE CLEAN MATERIALS IS UNRESTRICTED AND ITS USE TO BRING AN AREA TO GRADE WILL NOT REQUIRE DEPARTMENT APPROVAL EXCEPT THAT THE CONTAMINATED SOILS, STONE, GRAVEL, UNUSED BRICK AND BLOCK CONCRETE, AND USED ASPHALT ARE PROHIBITED FROM BEING PLACED DIRECTLY INTO OR ON WATERS OF THE COMMONWEALTH.

PA DEP CLEAN FILL POLICY AND GUIDELINES

1. CLEAN FILL IS DEFINED IN THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL", AS CONTAMINATED, NONWATER-SOLUBLE, NON-DECOMPOSABLE INERT SOLID MATERIAL. CLEAN FILL INCLUDED SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND RECOGNIZABLE AS SUCH.
2. CLEAN FILL USED IN ACCORDANCE WITH THE MANAGEMENT OF FILL POLICY IS NOT MANAGED AS WASTE AND THEREFORE, NOT SUBJECT TO A SOLID WASTE MANAGEMENT ACT PERMIT. THE MATERIAL MAY BE USED UNRESTRICTED AND UNREGULATED UNDER THE ACT AND ITS REGULATIONS. THE USE OF CLEAN FILL INCLUDES THE TRANSPORTATION, PROCESSING, STORAGE, MANAGEMENT AND PLACEMENT OF CLEAN FILL.
3. THE CLEAN FILL DEFINITION COULD ALSO INCLUDE UNUSED MATERIAL, SUCH AS BAGHOUSE DUST FROM ROCK CRUSHING OPERATIONS, DRY PIECES OF NON-SPEC. CONCRETE PRODUCTS FROM MATCH PLANTS, AND MATERIALS OF NATURAL ORIGIN THAT HAS BEEN PHYSICALLY PROCESSED TO PRODUCE A PRODUCT, SUCH AS ROOFING SLATE, AND OFF-SPEC OR BROKEN BRICKS FROM STANDARD MANUFACTURING PROCESSES, THAT HAVE BEEN DETERMINED TO BE CLEAN FILL IN ACCORDANCE WITH THE MANAGEMENT OF FILL POLICY.
4. IT SHOULD BE NOTED THAT UNUSED ASPHALT WOULD NOT MEET THE DEFINITION OF CLEAN FILL.
5. ANY PERSON PLACING CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF REGULATED SUBSTANCE MUST USE DEPARTMENT FORM FP-001 TO REPORT TO THE AGENCY. THE MATERIAL AND THE RESULTS OF THE ANALYTICAL TESTING TO QUALIFY THE MATERIALS AS CLEAN FILL. THE FORM MUST BE RETAINED BY THE OWNER OF THE PROPERTY RECEIVING THE FILL. FILL MATERIAL NOT QUALIFYING AS CLEAN FILL IS REGULATED FILL AND MUST BE MANAGED IN ACCORDANCE WITH THE DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PENNSYLVANIA CODE CHAPTERS 287 OR 271, WHICHEVER IS APPLICABLE.

DETERMINATION OF CLEAN FILL

SOIL NOTES- A Site-Specific Health and Safety plan (HASP) is to be provided to all contractors noting the potential for impacts and the protection measures/material handling for the potential contaminants of concern. Earth disturbance activities should be suspended if suspected impacted soils are encountered until the material can be properly characterized.

If the permittee becomes aware during earth disturbance activities that soils in the area of earth disturbance contains concentrations of regulated substances exceeding the residential medium-specific concentrations for soil in 25 pa code 250, that were not previously disclosed to dep/ccd, the permittee shall notify dep/ccd in accordance with part a.iii of this permit and cease earth disturbance activities in areas of known soil contamination until authorized to resume by dep/ccd.

Soils may not be exported to a residential site since they are in exceedance of the residential standards.

1. ENVIRONMENTAL DUE DILIGENCE, AS DEFINED IN THE MANAGEMENT OF FILL POLICY, MUST BE PERFORMED TO DETERMINE WHETHER MATERIAL CAN BE MANAGED AS CLEAN FILL, OR WILL BE SUBJECT TO REGULATION UNDER A SOLID WASTE MANAGEMENT PERMIT. IF THE DUE DILIGENCE SHOWS THAT THERE IS NO EVIDENCE THAT THE MATERIAL WAS SUBJECT TO A RELEASE OF A REGULATED SUBSTANCE, THE MATERIAL MAY QUALIFY AS CLEAN FILL.
2. IF DUE DILIGENCE SHOWS EVIDENCE OF A RELEASE OF A REGULATED SUBSTANCE, TESTING MUST BE PERFORMED TO DEMONSTRATE THAT THE MATERIAL DOES NOT CONTAIN CONCENTRATIONS OF REGULATED SUBSTANCES THAT EXCEED THE CONCENTRATION LIMITS FOR CLEAN FILL SPECIFIED IN THE MANAGEMENT OF FILL POLICY.
3. MATERIALS THAT CONTAIN INTENTIONALLY RELEASED REGULATED SUBSTANCES CANNOT BE MANAGED UNDER THIS POLICY. DREDGED MATERIALS IN PARTICULAR, CONTAIN DIFFERENT CONTAMINANTS DEPENDING ON THEIR SOURCE. ALTHOUGH NOT MANDATORY, IT IS ADVISABLE TO CONTACT THE DEPARTMENT'S REGIONAL OFFICE FOR ADVICE PRIOR TO QUALIFYING DREDGED MATERIAL AS CLEAN FILL.
4. CLEAN FILL DOES NOT INCLUDE DECOMPOSABLE MATERIAL SUCH AS DIMENSIONAL LUMBER, LAND CLEARING WOOD MATERIALS OR MIXED DEMOLITION WASTE THAT IS NOT RECOGNIZABLE AS INERT SOLID MATERIAL. SUCH MATERIALS MUST BE MANAGED UNDER A PERMIT, A GENERAL PERMIT FOR BENEFICIAL USE, A PERMIT-BY-RULE, OR UNDER EXISTING TECHNICAL GUIDANCE.
5. ANY MATERIALS PLACED IN WATERS OF THE COMMONWEALTH ARE NOT CONSIDERED CLEAN FILL UNLESS OTHERWISE AUTHORIZED BY THE DEPARTMENT.

ADDITIONAL INFORMATION IS AVAILABLE IN A QUESTION-AND-ANSWER FORMAT ON THE DEPARTMENT'S WEBSITE: [HTTP://WWW.DEP.STATE.PA/DEP/DEPUTATE/AIREWASTE/WM/MRW/DOC/CLEANFILLQA.HTM](http://www.dep.state.pa/dep/deputate/airewaste/wm/mrw/doc/cleanfillqa.htm)

PERMANENT CONTROL MEASURES

1. PERMANENT GRASS AREAS WILL BE ESTABLISHED BY SEEDING AND MULCHING FOLLOWING FINAL GRADING. WHEN 70% STABILIZATION HAS BEEN ACHIEVED, AS DETERMINED BY THE CONSERVATION DISTRICT, THE CONTRACTOR WILL REMOVE ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES STILL ON THE SITE AND NO LONGER UTILIZED. OTHER LANDSCAPED AREAS WILL BE PROPERTY STABILIZED AFTER PLANTING OF GROUND COVER.
2. SEEDED AREAS THAT HAVE WASHED AWAY WILL BE FILLED AND GRADED AS NECESSARY, AND THEN RE-SEEDED. STRAW OR BURLAP WILL BE PLACED UNTIL STABILIZATION OF THE AREA IS ACCOMPLISHED. ANY GRADING AND RE-SEEEDING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. ALL EXPOSED SOIL WILL BE SEEDED AFTER EXCAVATION AND BACKFILL ACTIVITIES. SEEDING, MULCHING, AND FERTILIZING SHALL BE ACCORDING TO PERMANENT SEEDING NOTES, SHOWN ON THE PLANS AND SHALL BE IN ACCORDANCE WITH COUNTY CONSERVATION DISTRICT RECOMMENDATIONS.

1. UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN THE MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE.
2. ANY DAMAGE THAT OCCURS IN WHOLE OR IN PART AS A RESULT OF BASIN OR TRAP DISCHARGE SHALL BE IMMEDIATELY REPAIRED BY THE PERMITTEE IN A PERMANENT MANNER SATISFACTORY TO THE MUNICIPALITY, LOCAL CONSERVATION DISTRICT, AND THE OWNER OF THE DAMAGED PROPERTY.
3. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.
4. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN MAXIMUM 8" LAYERED LITS AT 95 % DENSITY.
5. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
6. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.

1. THERE IS NO KNOWN GEOLOGIC OR SOIL CONDITIONS THAT MAY HAVE THE POTENTIAL TO CAUSE POLLUTION.
2. THERMAL IMPACT WILL BE MITIGATED BY RESTORING THE GROUND COVER TO EXISTING CONDITIONS.
3. THIS PROJECT WAS DESIGNED TO MINIMIZE NEW IMPERVIOUS AREAS
4. THIS PROJECT WAS DESIGNED TO PROTECT EXISTING VEGETATION, LIMIT LAND CLEARING AND GRADING.
5. THIS PROJECT WAS DESIGNED TO MINIMIZE SOIL COMPACTION.
6. THIS PROJECT WAS DESIGNED TO MINIMIZE EXTENT AND DEURATION OF EARTH DISTURBANCE.
7. THIS PROJECT WAS DESIGNED TO MINIMIZE GENERATION OF INCREASED STORM WATER RUNOFF.
8. THERE ARE NO WETLANDS WITHIN THE PROJECT.
9. THERE ARE NOT RIPARIAN BUFFERS WITHIN THE PROJECT.
10. THIS PLAN PRESERVES THE INTEGRITY OF STREAM CHANNELS AND MAINTAIN AND PROTECT THE PHYSICAL, BIOLOGICAL AND CHEMICAL QUALITIES OF THE RECEIVING STREAM.

SEEDING SPECIFICATIONS

1. GENERAL NOTES:

- A. FOR GRASS AND LANDSCAPED AREAS, PLACE TOPSOIL TO A MINIMUM DEPTH OF FOUR INCHES (4") WHERE THE TEXTURE OF THE EXPOSED SOIL IS NOT SUITABLE FOR VEGETATIVE GROWTH, WHERE TOPSOIL DEPTH IS INSUFFICIENT FOR SUPPORTING ROOT ZONE, OR WHERE SOIL IS TOO ACIDIC OR TOXIC TO BE TREATED. SCARIFY AREAS TO RECEIVE TOPSOIL TO A DEPTH OF TWO INCHES (2") TO PERMIT BONDING OF THE TOPSOIL TO THE SUBSOIL.
- B. LIME AND FERTILIZE ACCORDING TO SOIL TESTS AT THE RATES INDICATED BELOW.
- C. LOOSEN SURFACE SOIL TO A DEPTH OF FOUR TO SIX INCHES (4-6") WITH SUITABLE EQUIPMENT. APPLY SEEDS UNIFORMLY BY BROADCASTING OR HYDROSEEDING. USE FOUR (4) TIMES THE NORMAL RATE WHEN HYDROSEEDING.
- D. MULCH ALL SEEDED AREAS.

2. APPLICATION TABLE:

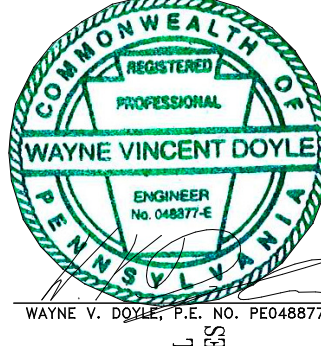
AREA	TEMPORARY SEEDING	PERMANENT SEEDING	AGRICULTURAL	FERTILIZER	MULCH
LAWN AREAS	ANNUAL RYEGRASS @ 40lbs./ ACRE	60% RAVEN KENTUCKY BLUEGRASS 20% SEVEN SEAS CHEWINGS FESCUE 20% SOPRANO PERENNIAL RYEGRASS	TEMP. SEEDING- 1 TON / ACRE PERM. SEEDING- 6 TONS / ACRE	TEMP. SEEDING- 10-10-10 @500 LB/ AC PERM. SEEDING- 10-20-20 @1000 LB/ AC	STRAW MULCH 3 TONS / ACRE

3. SEEDING DATES:


MARCH 1 TO OCT. 31 PERMANENT SEEDING

MID APRIL - MID OCTOBER TEMPORARY SEEDING

KCBA Architects
Eight East Broad Street
Allentown, PA 18104-2401
P 215.368.5906
F 215.368.5908
kcbaworks@kcba.com



WAYNE V. DOYLE, P.E. No. 125487



COWAN ASSOCIATES, INC.
1000 N. 10TH STREET, SUITE 200
ALLENTOWN, PA 18102
TEL: 610.261.1000
FAX: 610.261.1008

FOR
HARMONVILLE FIRE COMPANY -
PLYMOUTH VALLEY FIRE STATION


A NEW FIRE STATION

PLYMOUTH MEETING TWP. MONTGOMERY COUNTY, PA

REVISIONS	DESCRIPTION	
	DATE	MARK

SHEET TITLE

Drawing Title
EROSION CONTROL
NOTES

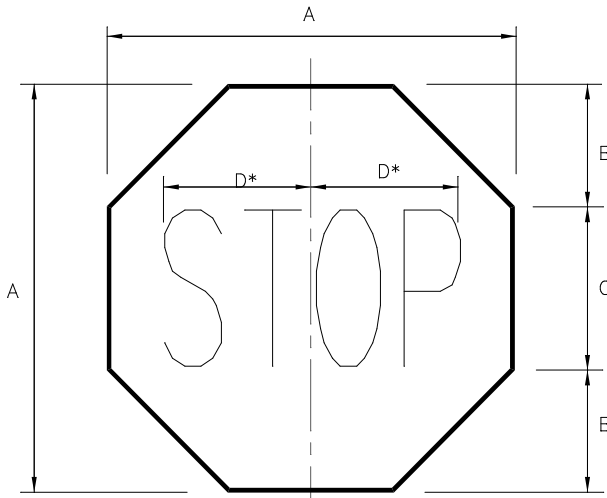


JOB NO.	2587.00
DATE	03.06.2025

SHEET NO.

R1-1
STOP SIGN

- (A) JUSTIFICATION. THE STOP SIGN (R1-1) IS AUTHORIZED FOR USE ON THOSE STREETS OR HIGHWAYS WHICH INTERSECT WITH A THROUGH HIGHWAY OR AT A STOP INTERSECTION SO DESIGNATED BY THE DEPARTMENT WITH REFERENCE TO STATE-DESIGNATED HIGHWAYS OR LOCAL AUTHORITIES WITH REFERENCE TO HIGHWAYS UNDER THEIR JURISDICTION. THE R1-1 SIGN IS ALSO AUTHORIZED FOR USE IN WORK ZONES INVOLVING ONE-LANE, TWO-WAY ROADWAYS. AT INTERSECTIONS WHERE ALL APPROACHES ARE CONTROLLED BY AN R1-1 SIGN, A SUPPLEMENTAL ALL-WAY PLAQUE (R1-39) SHALL BE MOUNTED BELOW EACH R1-1 SIGN.
- (B) AUTHORIZATION. BEFORE LOCAL AUTHORITIES DESIGNATE ANY HIGHWAY AS A THROUGH HIGHWAY OR STOP INTERSECTION WHICH WILL INTERSECT OR AFFECT A STATE-DESIGNATED HIGHWAY, APPROVAL OF SUCH DESIGNATION SHALL FIRST BE OBTAINED FROM THE DEPARTMENT. APPROVAL TO INSTALL R1-1 SIGNS IN WORK AHEAD SHALL NOT REQUIRE THE APPROVAL OF THE DEPARTMENT OR LOCAL AUTHORITIES WHEN THE CONDITIONS STIPULATED IN THE DEPARTMENT'S TEMPORARY TRAFFIC CONTROL GUIDELINES ARE SATISFIED.
- (C) SIZE. THE STANDARD SIZE R1-1 SIGN SHALL BE 30" X 30" FOR SINGLE LANE CONVENTIONAL HIGHWAYS AND 36" X 36" FOR MULTI-LANE CONVENTIONAL HIGHWAYS. THE 24" X 24" SIZE SHALL ONLY BE USED FOR ALLEYS WITH RESTRICTIVE PHYSICAL CONDITIONS AND VEHICLE USAGE THAT PROHIBITS THE INSTALLATION OF THE STANDARD SIZE R1-1. A SIGN THAT IS MOUNTED BACK-TO-BACK WITH A R1-1 SIGN SHOULD STAY WITHIN THE EDGES OF THE R1-1 SIGN. IF NECESSARY, THE SIZE OF THE R1-1 SIGN SHOULD BE INCREASED SO THAT THE OTHER SIGN INSTALLED BACK-TO-BACK WITH IT REMAINS WITHIN THE EDGES OF THE R1-1 SIGN.



DIMENSIONS - INCHES									
SIGN SIZE A x B	B	C	D	BDR- DZR	BLANK STD.				
18" x 18"	6	6C	8	0.4	----				
24" x 24"	8	8C	10	0.6	B1-24				
30" x 30"	10	10C	12.6	0.8	B1-30				
36" x 36"	12	12C	15	0.8	B1-36				
48" x 48"	16	16C	20	1.2	B1-48				

* REDUCE SPACING 40%

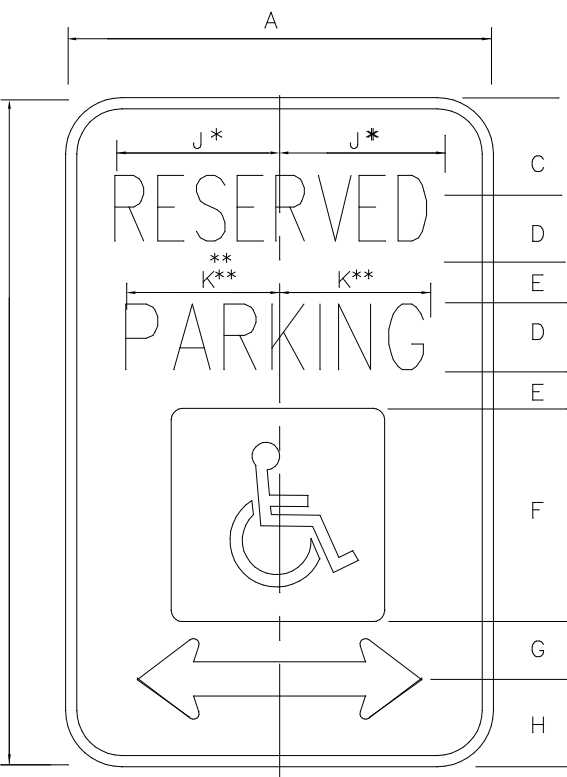
COLOR:
LEGEND AND BORDER:
WHITE (REFLECTORIZED)
BACKGROUND:
RED (REFLECTORIZED)

R7-8
RESERVED PARKING SIGN

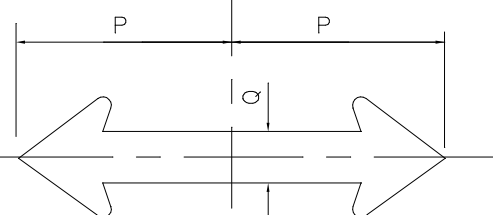
THE RESERVED PARKING SIGN (R7-8) IS AUTHORIZED TO MARK THE LOCATION OF A PARKING SPACE WHICH IS RESERVED FOR HANDICAPPED PERSONS OR SEVERELY DISABLED VETERANS.

WHEN USED, THE R7-8 SIGN SHOULD GENERALLY BE INSTALLED AT THE FRONT OF EACH RESERVED PARKING STALL; EXCEPT IN THE CASE OF PARALLEL PARKING, IT SHOULD BE INSTALLED AT INTERVALS NOT EXCEEDING 100' ALONG THE SIDE OF THE STALLS. WHEN INSTALLED AT THE FRONT OF THE PARKING STALLS, THE SINGLE OR DOUBLE HEADED ARROW MAY BE DELETED FROM THE R7-8 SIGN AND THE MESSAGE MAY BE SPACED ACCORDINGLY.

THE RESERVED PARKING PENALTIES SIGN (R7-8P) SHALL BE POSTED IN CONJUNCTION WITH THE R7-8 SIGN. WHEN USED, THE R7-8P SIGN SHALL BE PLACED BELOW THE R7-8 SIGN.



COLOR:
LEGEND, ARROW AND BORDER:
GREEN (REFLECTORIZED)
BACKGROUND & SYMBOL:
WHITE (REFLECTORIZED)
SYMBOL BACKGROUND:
BLUE (REFLECTORIZED)



NOTE:
SEE STANDARD ARROW FOR
DIMENSIONS OF ARROWHEAD

DIMENSIONS (INCHES)															
SIGN SIZE A x B	C	D	E	F	G	H	J	K	L	M	N	P	Q	MARGIN	BORDER
12"x18"	2	2C	1	6	1.6	2.4	4.9	4.3	3	0.4	4	3.8	.8	.4	4

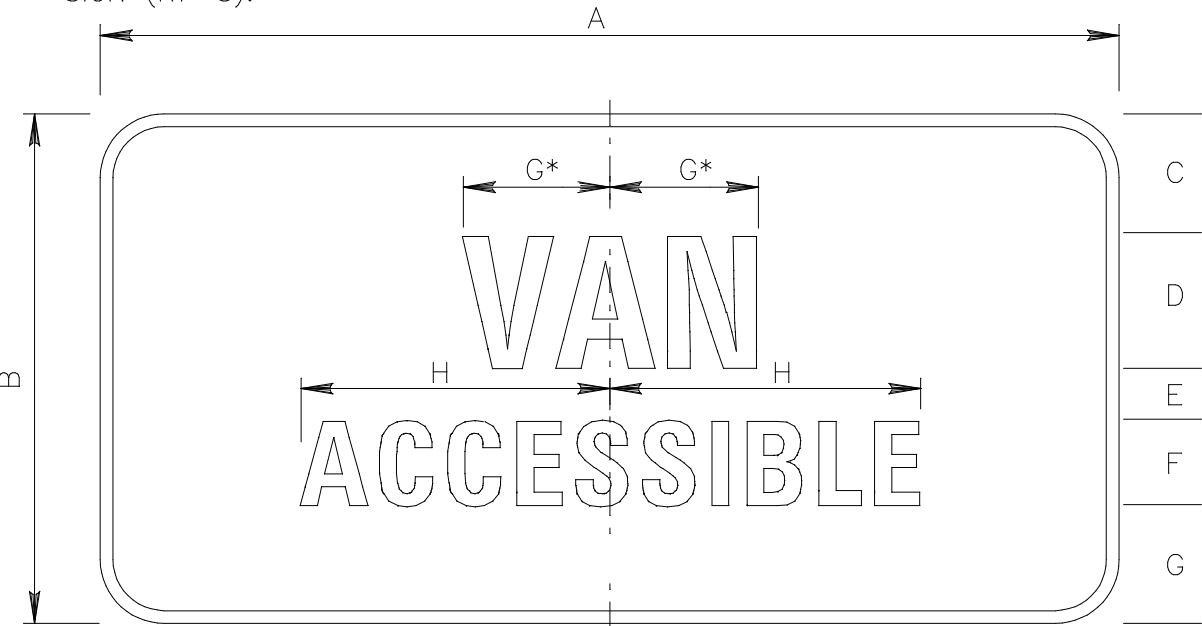
RESERVED PARKING SIGN

R7-8

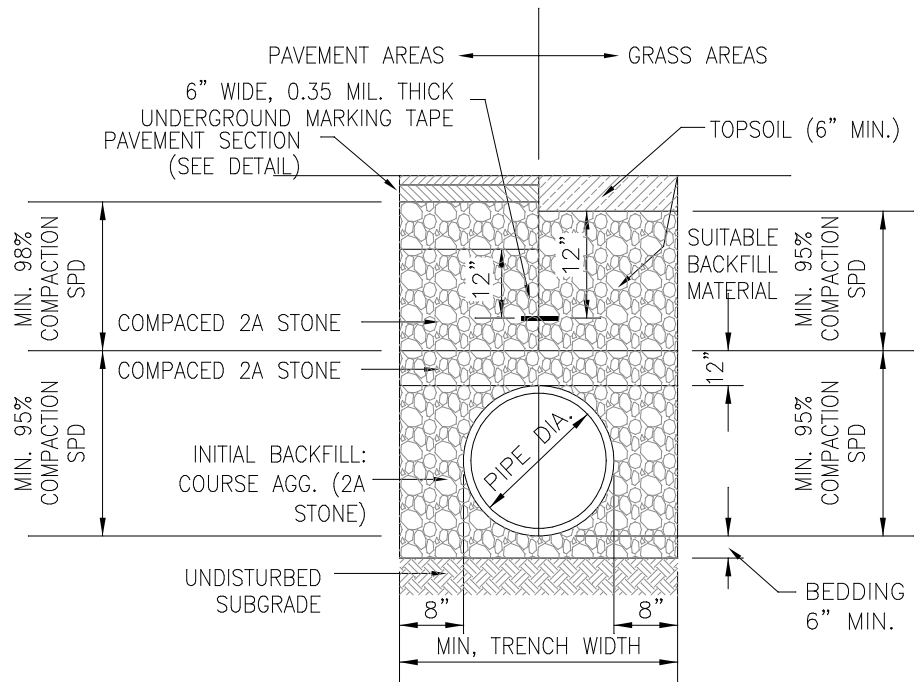
R7-8P
VAN ACCESSIBLE SIGN

THE VAN ACCESSIBLE SIGN (R7-8P) MAY BE USED AS A SUPPLEMENTAL SIGN TO INDICATE THAT A PARKING SPACE SIGNED WITH THE RESERVED PARKING SIGN (R7-8) IS OF SUFFICIENT SIZE FOR USE BY THE DISABLES TO ACCOMMODATE VANS DISPLAYING A HANDICAPPED OR SEVERELY DISABLED VETERAN REGISTRATION PLATE OR PLACARD.

ONE IN EVERY EIGHT RESERVED PARKING SPACES FOR THE DISABLES, BUT NOT LESS THAN ONE, SHALL BE DESIGNATED WITH THE R7-8P SIGN. WHEN USED, THE R7-8P SIGN SHALL BE PLACED IMMEDIATELY BELOW THE RESERVED PARKING SIGN (R7-8).



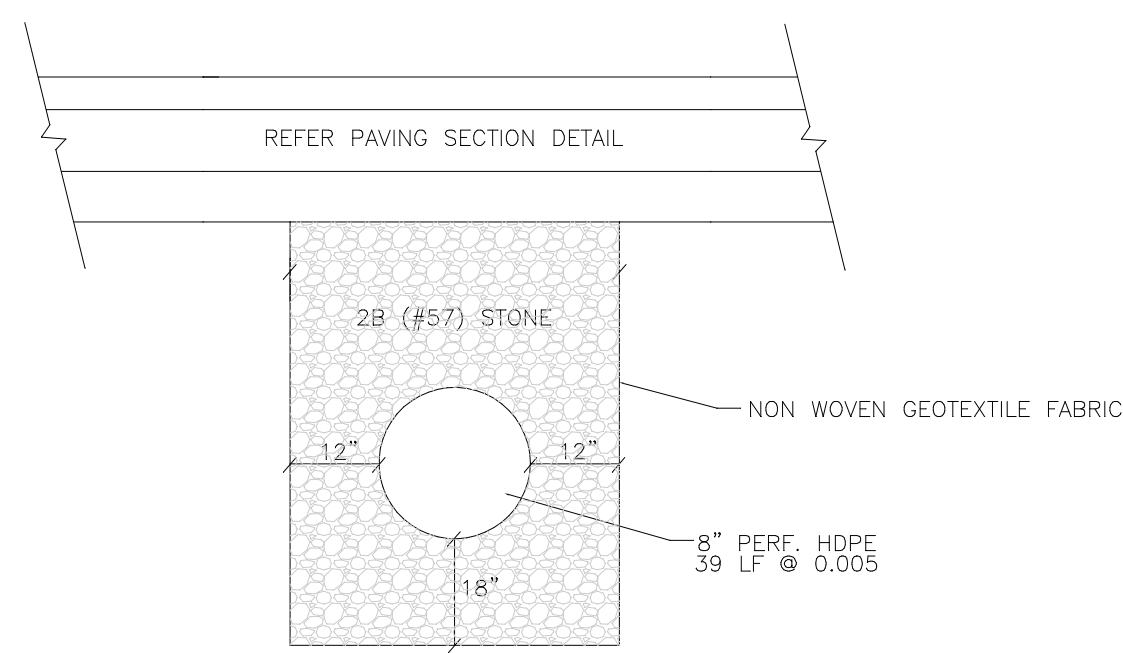
DIMENSIONS - mm (in)									
SIGN SIZE A	C	D	E	F	G	H	MARGIN	BORDER	BLANK STD.
12" x 6"	1.4	1.6D	0.6	1D	2.1	4	0.4	0.4	B5-1206



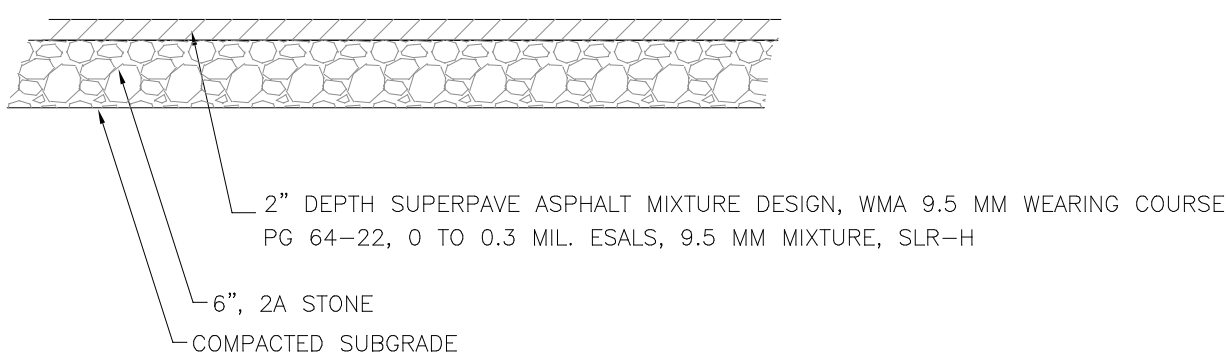
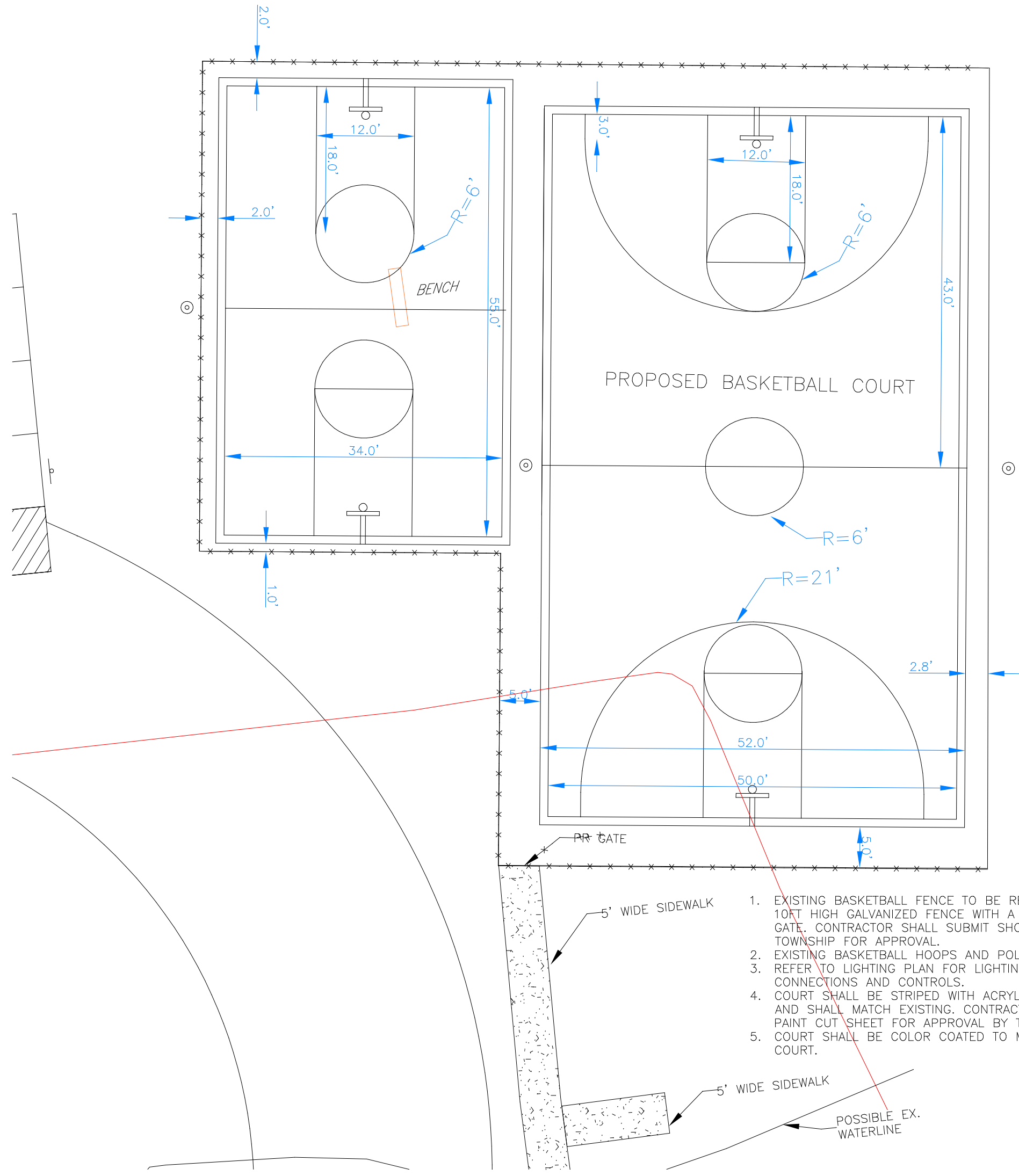
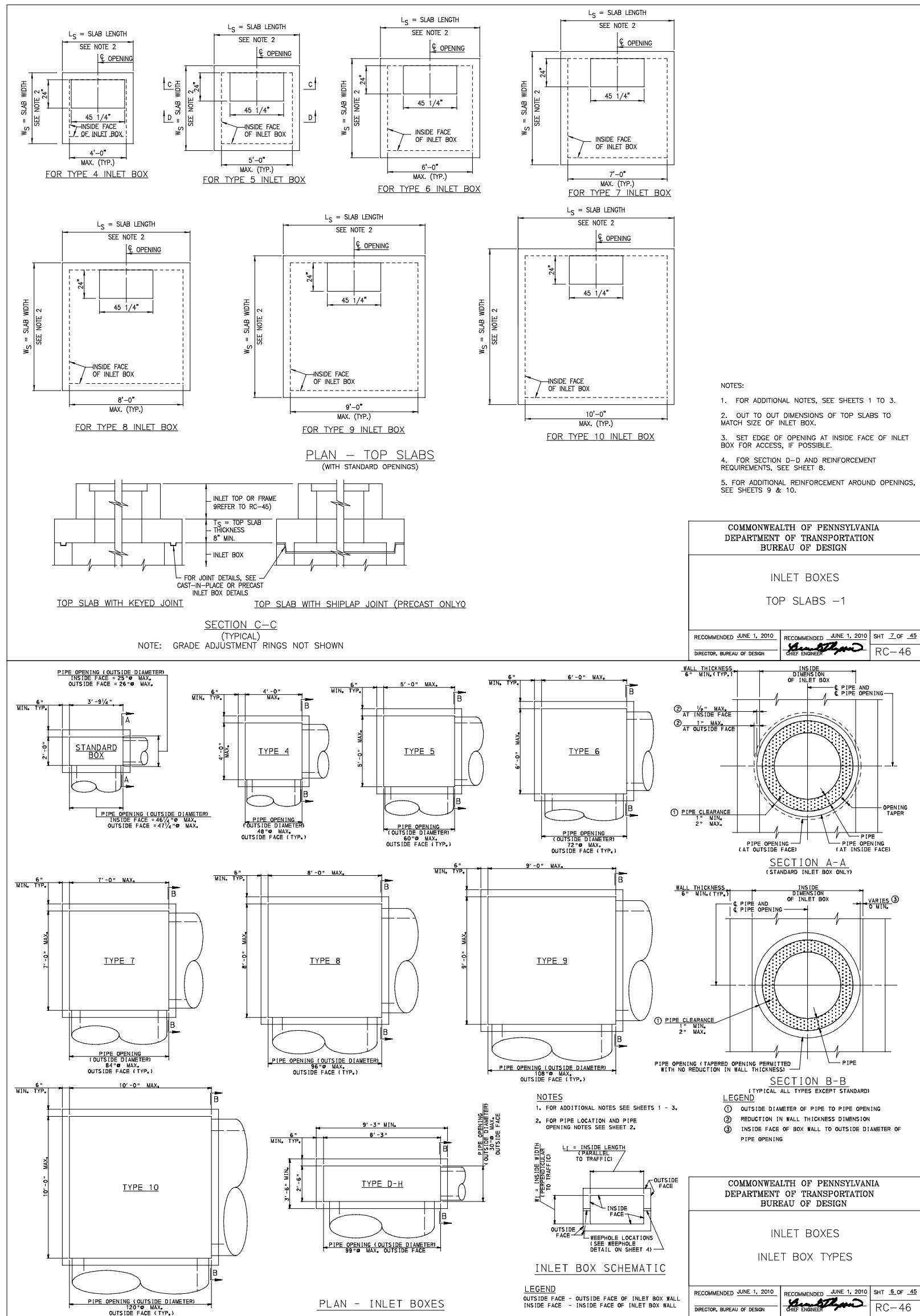
NOTES:

1. PLACE 2A COARSE AGGREGATE MATERIAL (N 4" LIFTS) ADJACENT TO THE LOWER HAUNCHES TO A HEIGHT OF 12" ABOVE TOP OF PIPE. COMPACT TO 95% SPD. TEST THE BACKFILL MATERIAL AND CONTINUE EMBANKMENT IN ACCORDANCE WITH SECTION 601.
2. PLACEMENT OF BACKFILL MATERIAL IN 8" LAYERS SHALL BE PERMITTED WHEN USING VIBRATORY COMP ACTION EQUIPMENT.
3. FOR TRENCH BOX/SHOULDERS INSTALLATION REQUIREMENTS REFER TO PUBLICATION 408, SECTION 601.
4. REFER TO PA DOT STANDARDS RC-30M

UTILITY PIPE TRENCH DETAIL
N.T.S.



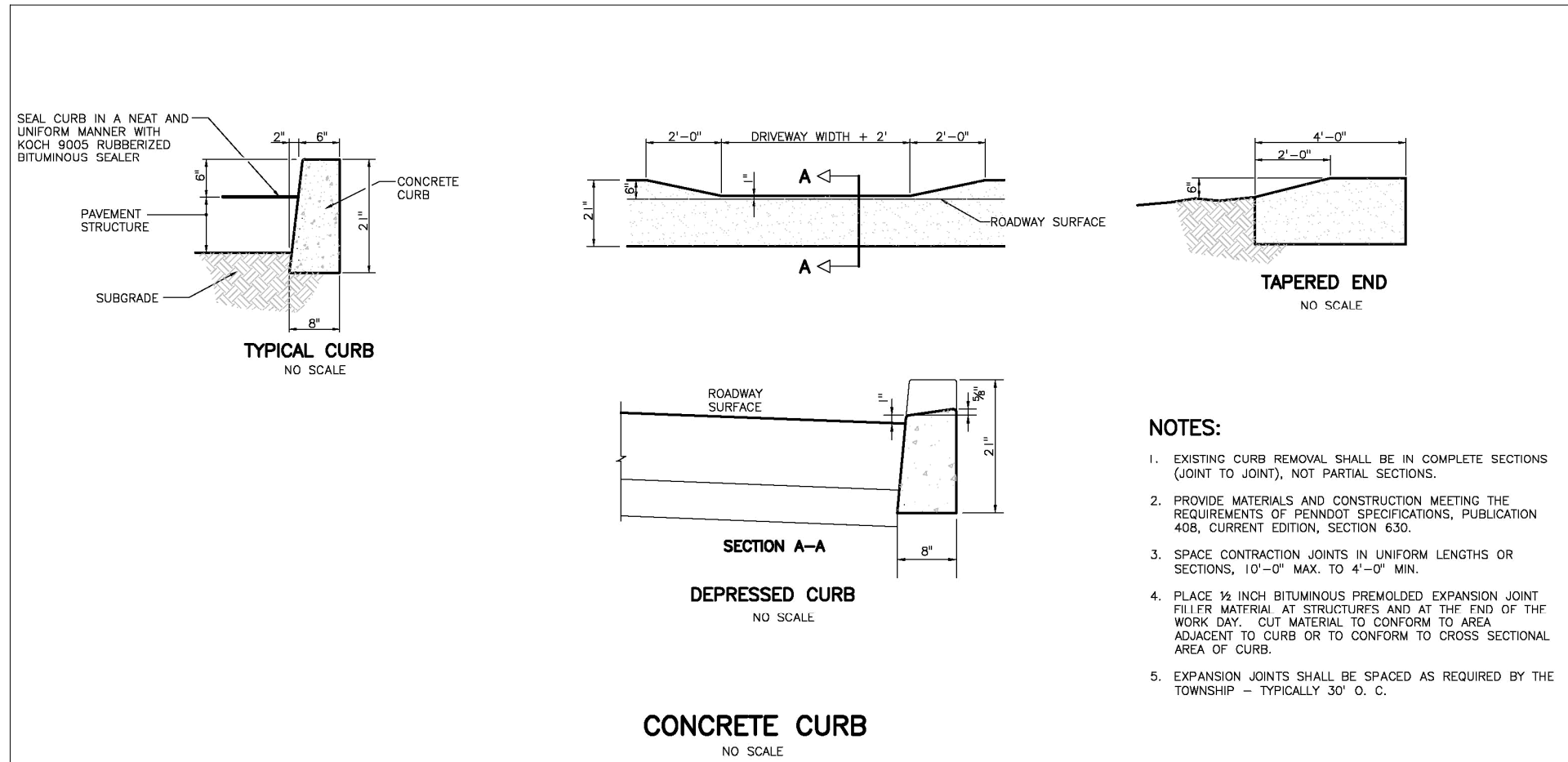
PROPOSED STORM SEWER INFILTRATION TRENCH DETAIL
N.T.S.



BASKETBALL COURT PAVING SECTION
NTS

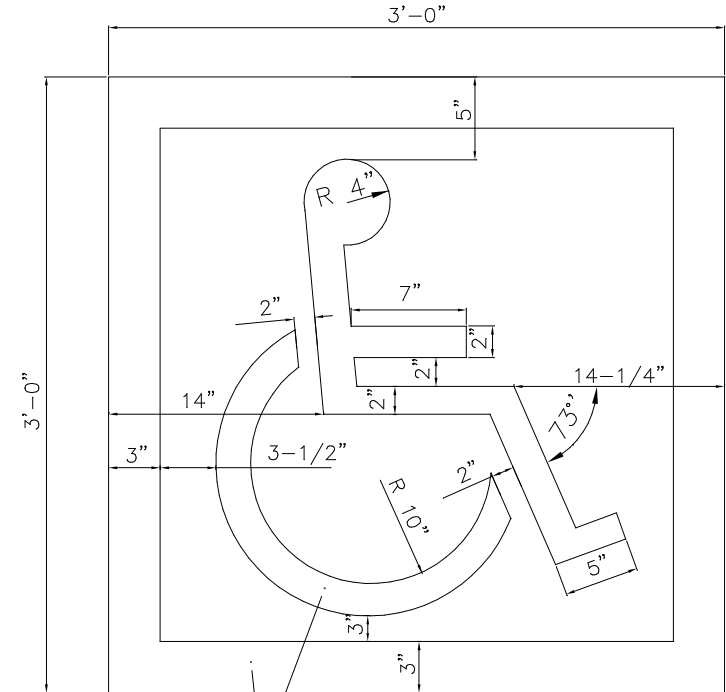
NOTE - ALL MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH PA. DEPT. OF TRANSP. SPECIFICATIONS FORM 408, 1994

REFER SP-05 PAVEMENT PLAN FOR LOCATION



NOTES:

1. EXISTING CURB REMOVAL SHALL BE IN COMPLETE SECTIONS (JOINT TO JOINT, NOT PARTIAL SECTIONS).
2. PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF PENNSYLVANIA PUBLICATION 408, CURRENT EDITION, SECTION 632.
3. SPACE CONTRACTION JOINTS IN UNIFORM LENGTHS OR SECTIONS, 10'-0" MAX. TO 4'-0" MIN.
4. PLACE 18" HIGH REINFORCED PRECASTED EXPANSION JOINT WITH 18" MIN. SPACING TO 15' MAX. FROM JOINT TO CURB OR TO CONFORM TO CROSS SECTIONAL AREA OF CURB.
5. EXPANSION JOINTS SHALL BE SPACED AS REQUIRED BY THE TOWNSHIP - TYPICALLY 30' O.C.



COLOR: ADA WHITE

PARKING SPACE EMBLEM

NOTES:

1. CONSTRUCTION SHALL COMPLY WITH THE PENNSYLVANIA UNIFORM CONSTRUCTION CODE (U.C.C.) AND THIS DRAWING, AS A MINIMUM.
2. CLEANOUTS SHALL BE INSTALLED AS SHOWN ON THE PLAN.
3. TESTING SHALL INCLUDE EITHER AN AIR TEST OF THE LATERAL AND CLEANOUTS AT 5 PSIG AIR PRESSURE FOR 15 MINUTES OR 10' HEAD OF WATER MINIMUM, FOR 15 MINUTES.
4. CLEANOUTS, VENTPIPS, AND TEST/PISTEST TEES, IF PLACED WITHIN PAVED AREAS SHALL BE PROTECTED FROM VEHICULAR DAMAGE BY LOCATING IN CAST IRON OR DUCTILE IRON FRAME AND COVER MARKED "SEWER" (SEE DETAIL).
5. IT IS THE PROPERTY OWNERS RESPONSIBILITY TO MAINTAIN ACCESS TO VENTPIPS, TEST/PISTEST TEES. ALL COSTS RELATED TO GAINING ACCESS SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.
6. PROVIDE STONE BEDDING AS SHOWN ABOVE.
7. PROPERTY OWNER SHALL BE RESPONSIBLE FOR SEALING THE LATERAL PENETRATION THROUGH THE BUILDING.

TYPICAL INSIDE SERVICE CONNECTION

CLEANOUT FRAME & COVER IN PAVED AREA
NOT TO SCALE

ACCESSIBLE AISLE GORE MARKING DETAIL
N.T.S.

KCBA Architects
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Plymouth Meeting, PA 19062-2401
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kcbarchitects.com

CONSULTANTS
COMMONWEALTH OF PENNSYLVANIA
PROFESSIONAL ENGINEER
WAYNE VINCENT DOYLE
WAYNE V. DOYLE, P.E., No. PE048877

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FAX 215.398.5907

A NEW FIRE STATION
FOR
HARMONVILLE FIRE COMPANY -
PLYMOUTH VALLEY FIRE STATION
PLYMOUTH MEETING TWP. MONTGOMERY COUNTY, PA

REVISIONS	DESCRIPTION
MARK	DATE

SHEET TITLE

Drawing Title
CONSTRUCTION
DETAILS

JOB NO. 2587.00
DATE 03.06.2025

SHEET NO.

SP-12

CONCRETE SLOPE DETAIL

BOLLARD DETAIL
N.T.S.

iden SHIELD®
DECORATIVE METRO
BOLLARD COVER
2018

STANDARD ASPHALT PAVING SECTION

NOTE - ALL MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH PA. DEPT. OF TRANSP. SPECIFICATIONS FORM 408, 1994

NEAT-CUT DETAIL
N.T.S.

N.T.S.

- NOTES
1. EXPOSED VERT. & HORIZ. SURFACES SHALL BE PREPARED AS PER PENNDOT PUBL. 408, SEC. 401.3(f).
 2. JOINT SPACING SHALL BE PER PENNDOT RC STANDARDS - FREEWAYS
 3. CONTRACTOR SHALL APPLY CURE AND SEAL TO ALL SURFACES.

HEAVY DUTY CONCRETE PAVEMENT SECTION (TYPICAL)

CONCRETE SIDEWALK AND APRON AREAS SUBJECT TO TRUCK LOADING SHALL COMPLY WITH THE HEAVY DUTY CONCRETE PAVEMENT REQUIREMENTS

HEAVY DUTY ASPHALT PAVING SECTION

NOTE - ALL MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH PA. DEPT. OF TRANSP. SPECIFICATIONS FORM 408, 1994

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY

CONCRETE PAVEMENT JOINTS

RECOMMENDED <u>SEPT. 15, 2016</u> <u>[Signature]</u> CHIEF, INT. DELIVERY DIVISION	RECOMMENDED <u>SEPT. 15, 2016</u> <u>[Signature]</u> DIRECTOR, BUREAU OF PRODUCT DELIVERY	SMT <u>2 C</u>
		RC-2

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY

CONCRETE PAVEMENT JOINTS

RECOMMENDED SEPT. 15, 2016 <i>John D. Bata</i>	RECOMMENDED SEPT. 15, 2016 <i>Brenda L. Ligon</i>	SEAT 1 RC-2
---	--	----------------

NOTE: EITHER ALL METRIC OR ALL ENGLISH UNITS
MUST BE USED ON PLANS. METRIC AND
ENGLISH VALUES SHOWN MAY NOT BE THE SAME

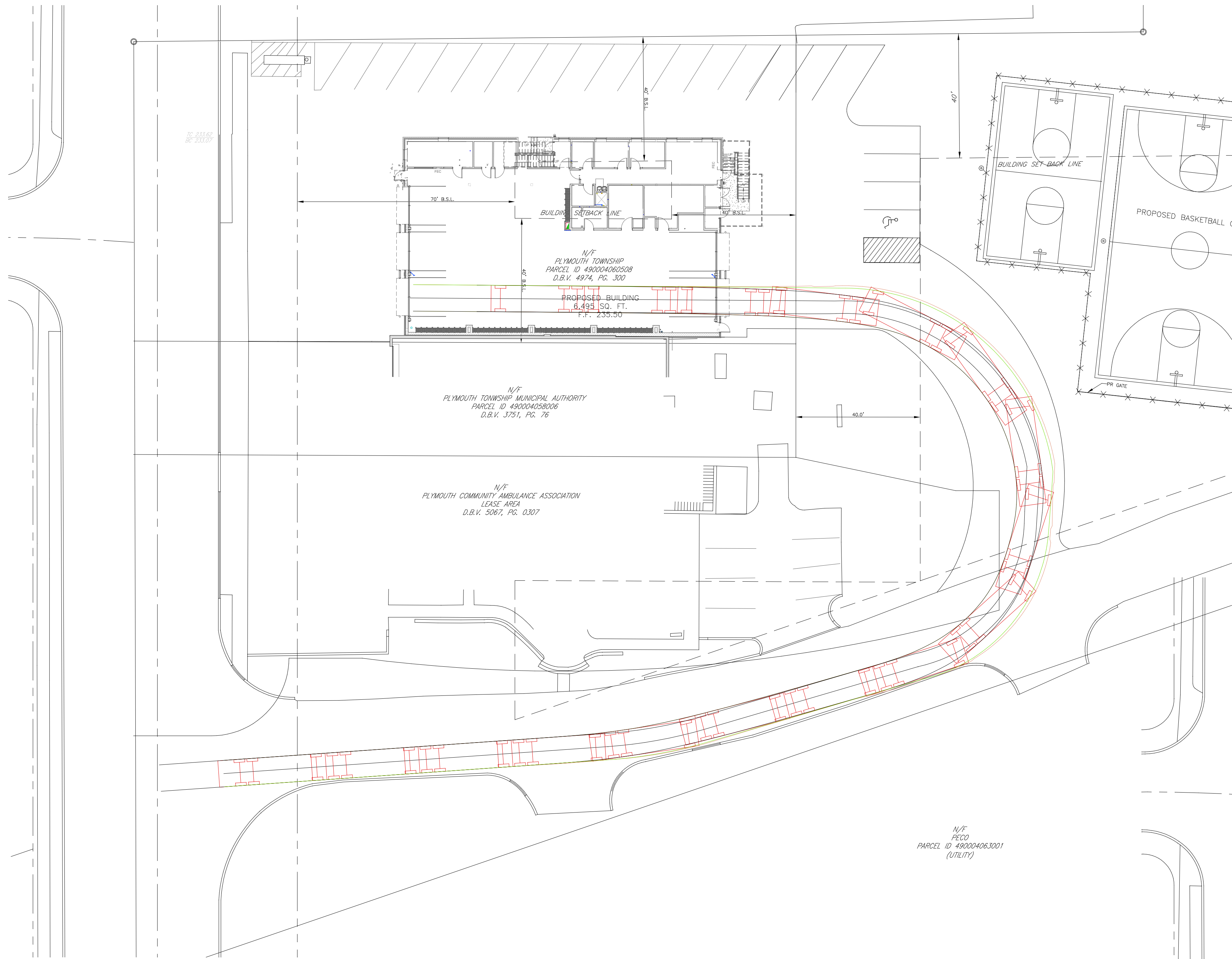
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

- NOTES
1. EXPOSED VERT. & HORIZ. SURFACES SHALL BE PREPARED AS PER PENNDOT PUBL. 40B, SEC. 401.3(f).
 2. CONTRACTION JOINT SPACING SHALL BE 5' FOR SIDEWALKS AND COURTYARDS.
 3. CONTRACTOR SHALL APPLY CURE AND SEAL TO ALL SURFACES.

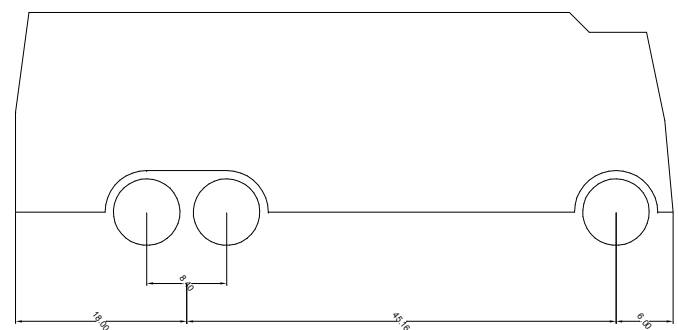
CONCRETE SIDEWALK – NON TRAFFIC AREAS (TYPICAL)

REFER SP-05 PAVEMENT PLAN FOR LOCATION

REFER SP-05 PAVEMENT PLAN FOR LOCATION

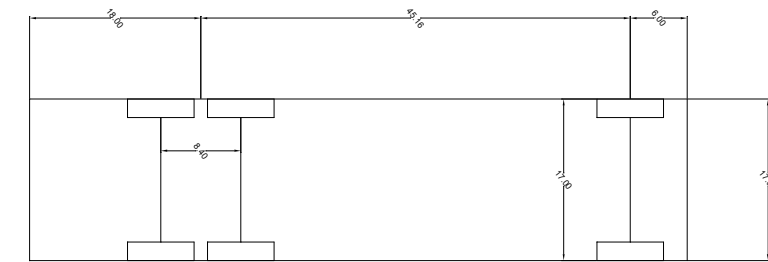


harmonville ladder

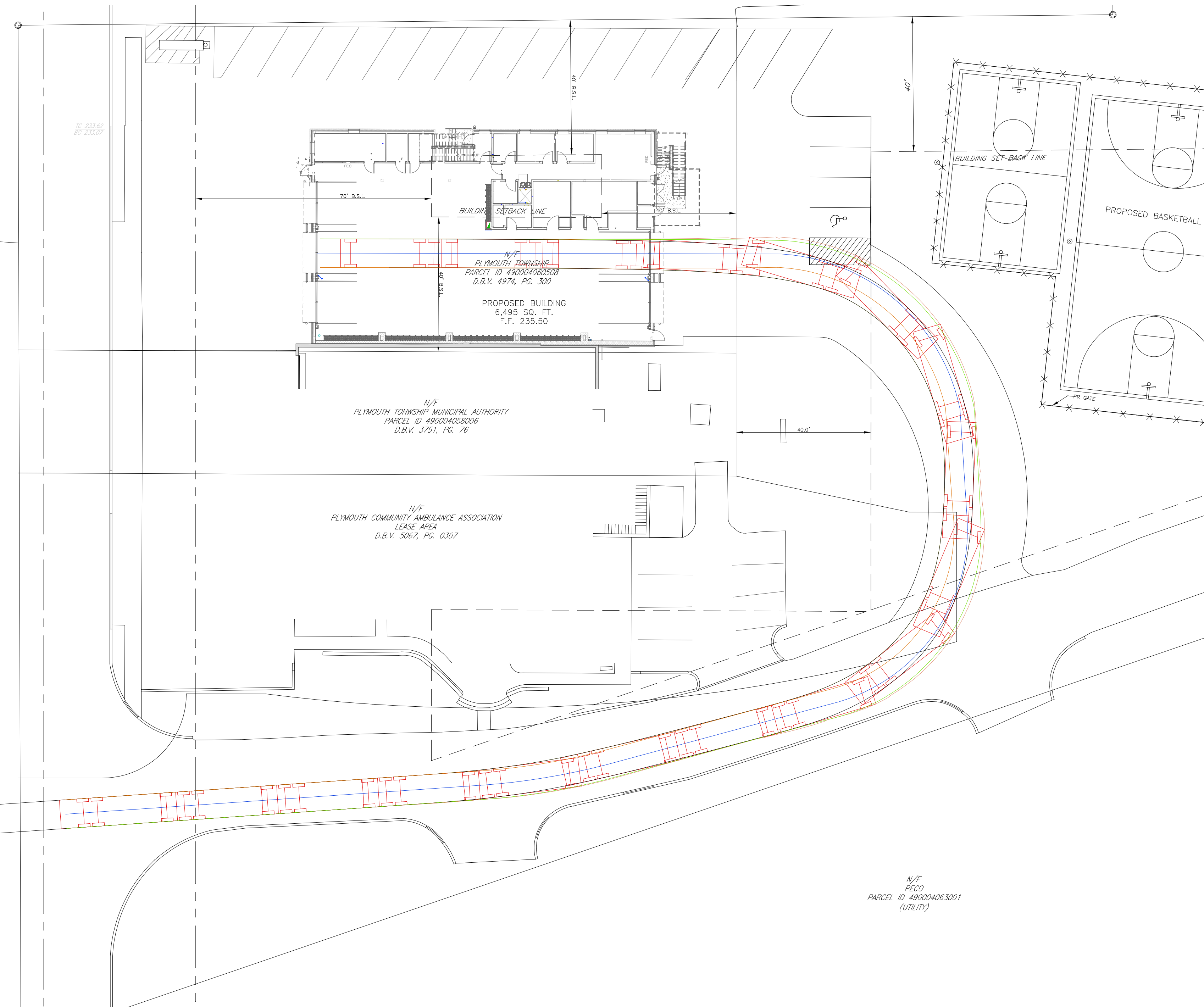
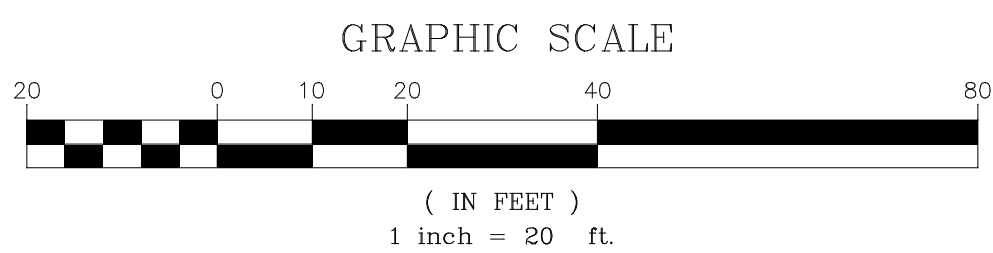


Vehicle Width: 8.5
Wheel Width: 8.5
Tire Diameter: 3.5

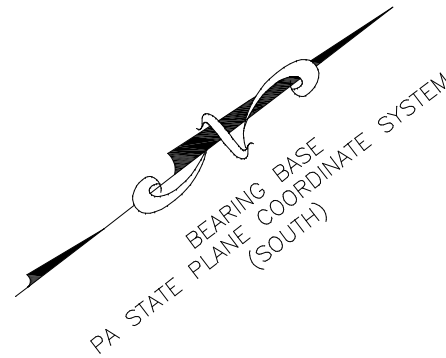
harmonville ladder



Tire Diameter: 3.5



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CALL 1-800-242-1778
NON-MEMBERS MUST BE CONTACTED DIRECTLY
PA LAW REQUIRES THREE WORKING DAYS
NOTICE TO UTILITIES BEFORE YOU EXCAVATE,
DRILL, BLAST OR DEMOLISH.
SERIAL NUMBER 20242262716



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TEL: (610) 386-7770 FAX: (610) 386-1886

A NEW FIRE STATION
FOR
HARMONVILLE FIRE COMPANY -
PLYMOUTH VALLEY STATION
PLYMOUTH MEETING TWP. MONTGOMERY COUNTY, PA

REVISIONS	DATE	DESCRIPTION
MARK		

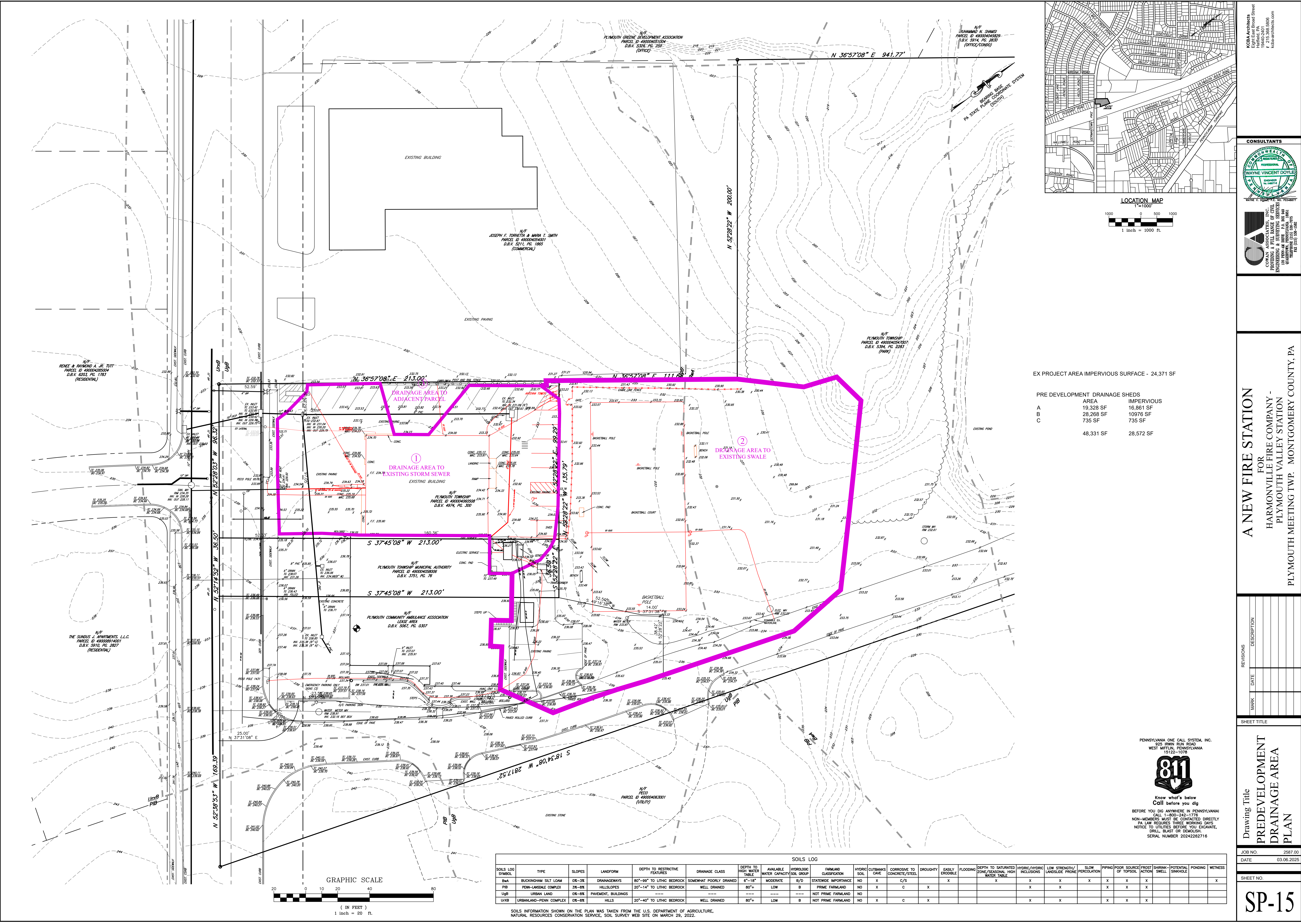
SHEET TITLE

Drawing Title
TRUCK ACCESS
PLAN

JOB NO. 2587.00
DATE 03.06.2025

SHEET NO.

SP-14



EX PROJECT AREA IMPERVIOUS SURFACE - 24,371 SF

PRE DEVELOPMENT DRAINAGE SHEDS	
AREA	IMPERVIOUS
A	19,328 SF
B	28,268 SF
C	10976 SF
	735 SF
	28,572 SF

811

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DRILL, BLAST OR DEMOLISH
SERIAL NUMBER 20242262716

SOILS LOG														
SOILS LOG SYMBOL	TYPE	SLOPES	LANDFORM	DEPTH TO RESTRICTIVE FEATURES	DRAINAGE CLASS	DEPTH TO HIGH WATER TABLE	AVAILABLE WATER CAPACITY	HYDROLOGIC SOIL GROUP	FRANKLIN CLASSIFICATION	HYDRIC SOIL	OUTBANKS CAVE	CORROSION TO CONCRETE/STEEL	DROUGHTY	EASILY ERODIBLE
BwA	BUCKINGHAM SILT LOAM	0%-3%	DRAINAGEWAYS	80"-99" TO LITHIC BEDROCK	SOMEWHAT POORLY DRAINED	6"-18"	MODERATE	B/D	STATEWIDE IMPORTANCE	NO	X	C/S	X	X
PiB	PENN-LANSDALE COMPLEX	3%-8%	HILLSLOPES	20"-14" TO LITHIC BEDROCK	WELL DRAINED	80"+	LOW	B	PRIME FARMLAND	NO	X	C	X	X
UgB	URBAN LAND	0%-8%	PAVEMENT, BUILDINGS	----	----	----	----	----	NOT PRIME FARMLAND	NO				
UxB	URBANLAND-PENN COMPLEX	0%-8%	HILLS	20"-40" TO LITHIC BEDROCK	WELL DRAINED	80"+	LOW	B	NOT PRIME FARMLAND	NO	X	C	X	X

SOILS INFORMATION SHOWN ON THE PLAN WAS TAKEN FROM THE U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, SOIL SURVEY WEB SITE ON MARCH 29, 2022.

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A NEW FIRE STATION
FOR
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PLYMOUTH MEETING TWP. MONTGOMERY COUNTY, PA

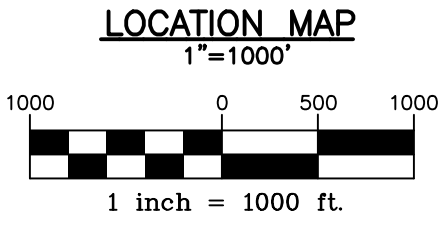
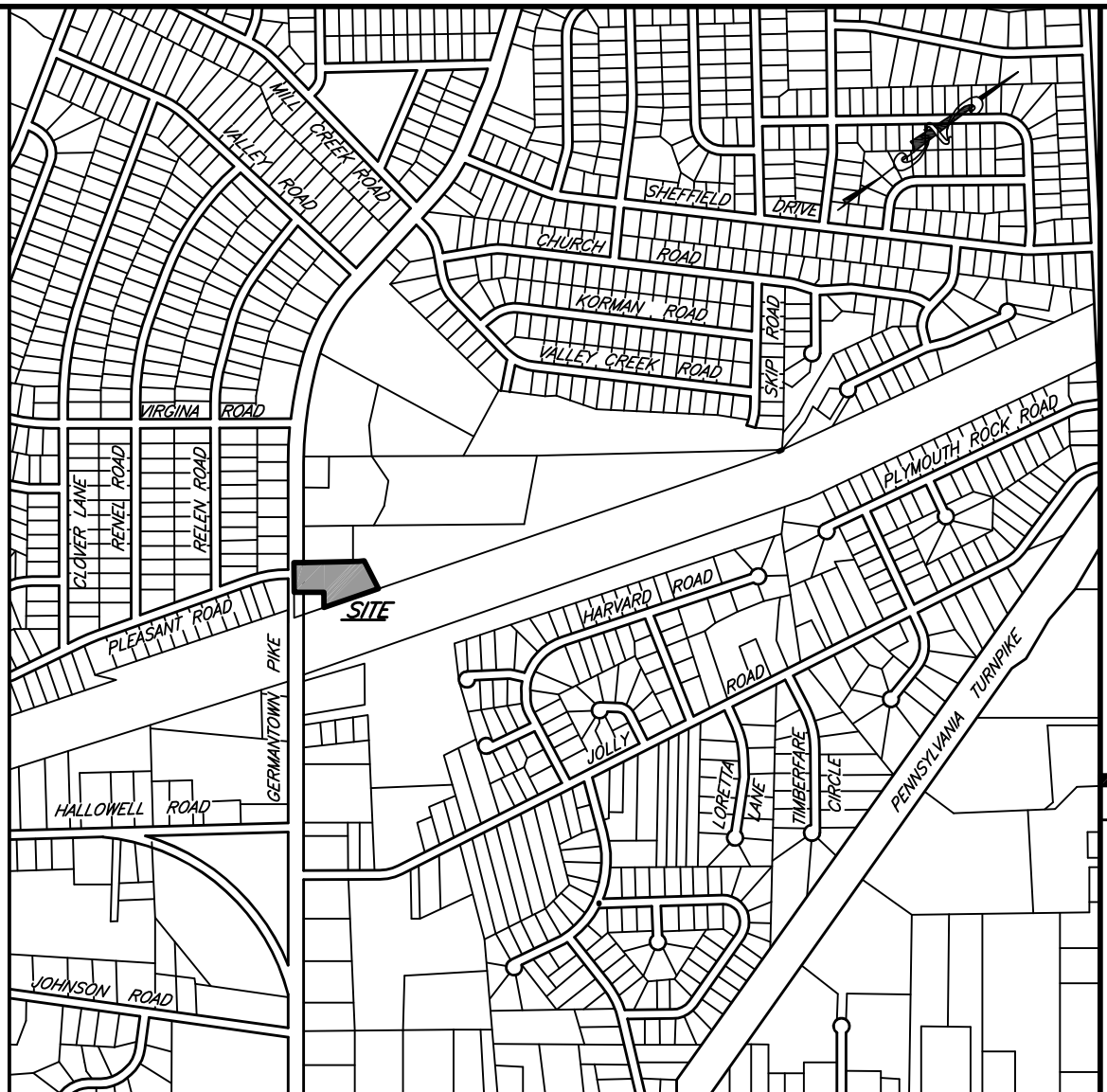
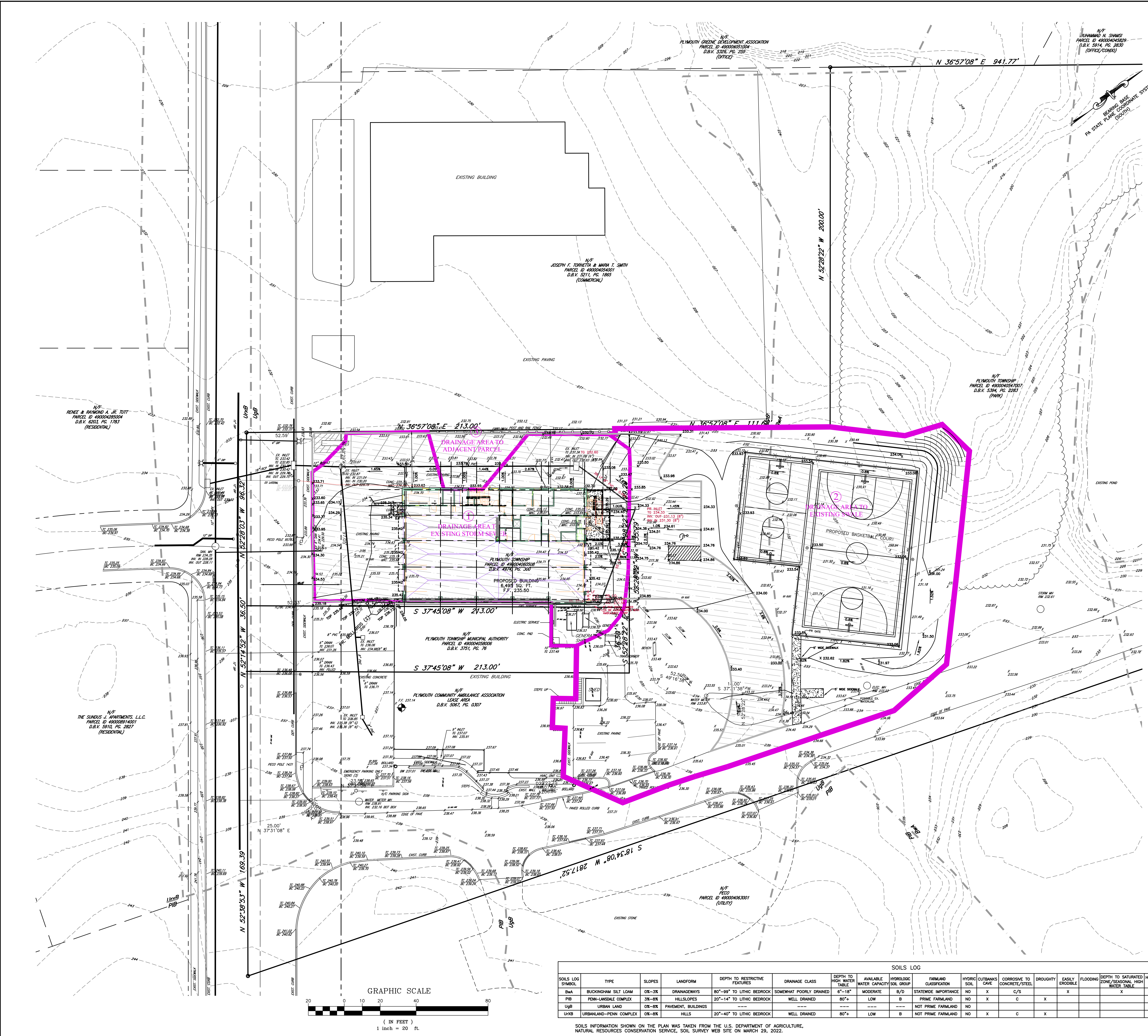
REVISIONS	DATE	DESCRIPTION

SHEET TITLE

Drawing Title
PREDEVELOPMENT
DRAINAGE AREA
PLAN

JOB NO. 2587.00
DATE 03.06.2025
SHEET NO.

SP-15



PR PROJECT AREA IMPERVIOUS SURFACE - 29,959 SF
PR IMPERVIOUS INCREASE - 5,588 SF

POST DEVELOPMENT DRAINAGE SHEDS		
	AREA	IMPERVIOUS
A	19,328 SF	18,028 SF
B	28,268 SF	15,847 SF
C	735 SF	735 SF
	48,331 SF	34,160 SF

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Know what's below
Call before you dig

BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA
CALL 1-800-242-1776
NON-MEMBERS MUST BE CONTACTED DIRECTLY
PA LAW REQUIRES THREE WORKING DAYS
NOTICE TO UTILITIES BEFORE YOU EXCAVATE,
DRILL, BLAST OR DEMOLISH.
SERIAL NUMBER 20242282716

SOILS LOG																	
SOILS LOG SYMBOL	TYPE	SLOPES	LANDFORM	DEPTH TO RESTRICTIVE FEATURES	DRAINAGE CLASS	DEPTH TO HIGH WATER TABLE	AVAILABLE WATER CAPACITY	PERMANENT CLASSIFICATION	HYDROLOGIC SOIL GROUP	HYDROLOGIC OUTBANKS	CORROSION TO CONCRETE/STEEL	DROUGHTY	EASILY ERODIBLE	FLOODING	DEPTH TO SATURATED ZONE/SEASONAL HIGH WATER TABLE	HYDROLOGIC INCLUSIONS	LOW STRENGTH/LANDSLIDE PRONE
BwA	BUCKINGHAM SILT LOAM	0%-3%	DRAINAGEWAYS	80"-99" TO LITHIC BEDROCK	SOMEWHAT POORLY DRAINED	6"-18"	MODERATE	B/D	STATEWIDE IMPORTANCE	NO	X	C/S	X	X	X	X	X
PtB	PENN-LANSDALE COMPLEX	3%-8%	HILLSLOPES	20"-14" TO LITHIC BEDROCK	WELL DRAINED	80"+	LOW	B	PRIME FARMLAND	NO	X	C	X	X	X	X	X
UgB	URBAN LAND	0%-8%	PAVEMENT, BUILDINGS	----	----	----	----	----	----	NO	X	C	X	X	X	X	X
UxB	URBANLAND-PENN COMPLEX	0%-8%	HILLS	20"-40" TO LITHIC BEDROCK	WELL DRAINED	80"+	LOW	B	NOT PRIME FARMLAND	NO	X	C	X	X	X	X	X

SOILS INFORMATION SHOWN ON THE PLAN WAS TAKEN FROM THE U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, SOIL SURVEY WEB SITE ON MARCH 29, 2022.

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covann.com

A NEW FIRE STATION
FOR
HARMONVILLE FIRE COMPANY -
PLYMOUTH VALLEY STATION
PLYMOUTH MEETING TWP. MONTGOMERY COUNTY, PA

REVISIONS	DATE	DESCRIPTION

Drawing Title
POSTDEVELOPMENT
DRAINAGE AREA
PLAN

JOB NO. 2587.00
DATE 03.06.2025
SHEET NO.

SP-16