

PRELIMINARY/FINAL LAND DEVELOPMENT PLANS SPRING HOUSE COURT

LOCATED IN
LOWER GWYNEDD TOWNSHIP, MONTGOMERY COUNTY



ACT 50 USER LIST

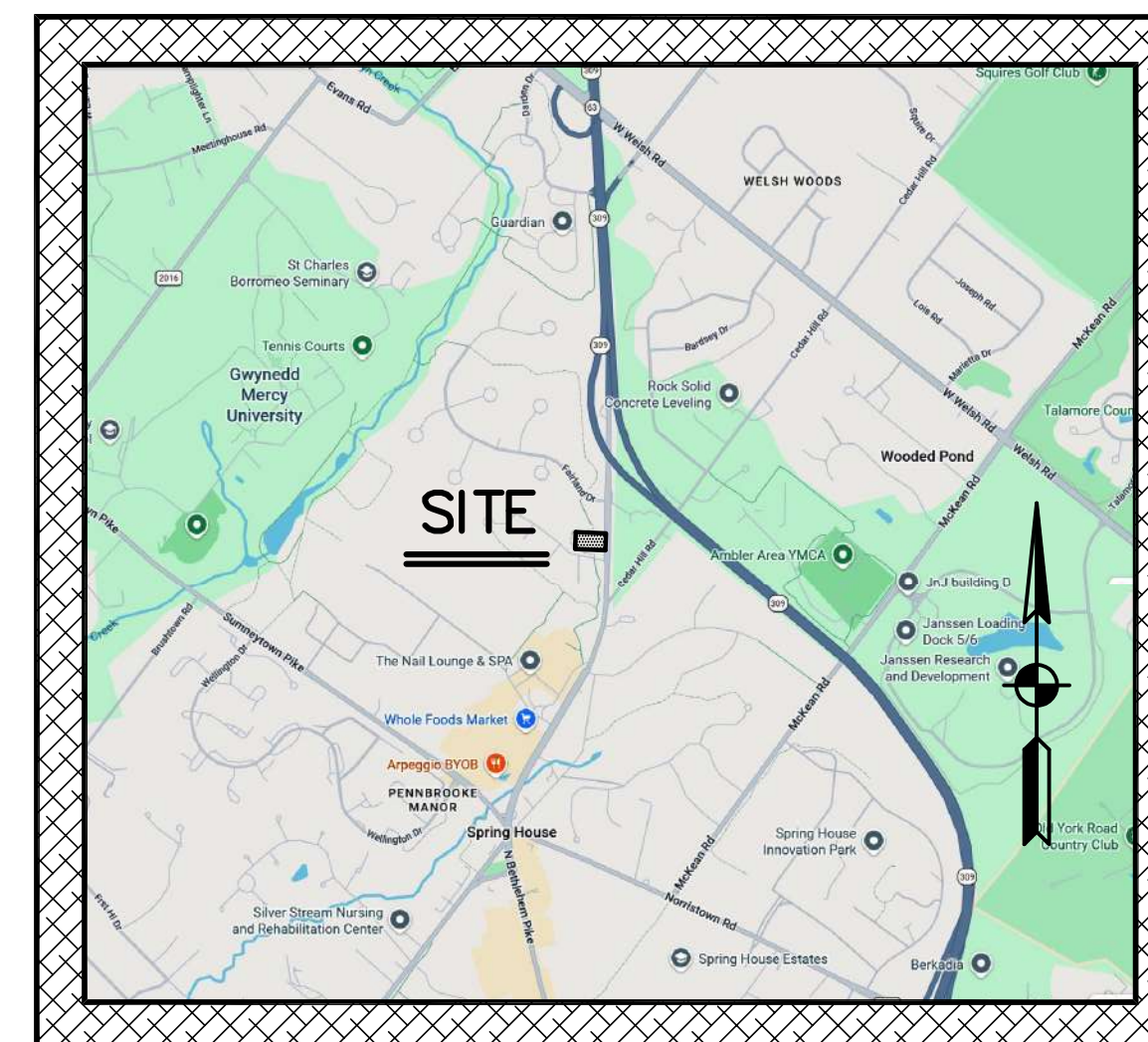
ATTENTION ALL CONTRACTORS: LOCATIONS OF ALL EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM UTILITY COMPANY RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF TYPE, SIZE, DEPTH OR HORIZONTAL LOCATION OF UNDER-GROUND FACILITIES OR STRUCTURES CANNOT BE GUARANTEED. PURSUANT TO REQUIREMENTS OF PENNSYLVANIA LEGISLATIVE ACT NUMBER 121 AS PER THE AMENDMENT OF PA ACT 287 OF 1974, EFFECTIVE OCTOBER 30, 2017 CONTRACTORS MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES PRIOR TO START OF WORK.

BOROUGH OF AMBLER
31 E. BUTLER AVENUE, AMBLER, PA. 19002
215-361-1000
BELL TELEPHONE CO. OF PA.
104 WITMER ROAD, HORSHAM, PA. 19044
215-986-2023
BELL TELEPHONE CO. OF PA.
MANAGER-DESIGN CENTER
1260 VIRGINIA DR., FORT WASHINGTON, PA. 19034
1-800-242-1776
TRANSCONTINENTAL GAS PIPELINE CORP.
60 RACON HILL ROAD, RADZIN, PA. 19355
215-644-7373
CABLEVISION OF PA.
237 W. GERMANTOWN PIKE
NORRISTOWN, PA. 19401
215-278-7200

UPPER GWYNEDD TOWNSHIP SEWER AUTHORITY
P.O. BOX 203, NORTH WALES, PA. 19454
215-699-5824
PENNSYLVANIA DEPT. OF TRANSPORTATION
P.O. BOX 350, NORRISTOWN, PA. 19401
215-275-2366
LOWER GWYNEDD TOWNSHIP
BETHLEHEM PIKE, P.O. BOX 293
SPRINGHOUSE, PA. 19477
215-646-5302
AMERICAN TELEPHONE & TELEGRAPH COMPANY
125 PORTER ROAD, POTTSTOWN, PA. 19464
215-326-6604 OR 215-687-7512
PHILADELPHIA ELECTRIC COMPANY
400 PARK AVE., WARRINGTON, PA. 18974
412-323-7100
NORTH WALES WATER AUTHORITY
200 W. WALNUT STREET, NORTH WALES, PA. 19454
215-699-4836

SITE STATISTICS

- SUBJECT TRACT MAY BE IDENTIFIED BY MONTGOMERY COUNTY TAX ASSESSMENT INFORMATION AS FOLLOWS:
LOWER GWYNEDD TOWNSHIP
PARID: 39-00-00412-00-8
- RECORDED DEED DATA IS AS FOLLOWS:
AS RECORDED IN THE OFFICE FOR THE RECORDING OF DEEDS, ETC., IN AND FOR THE COUNTY OF MONTGOMERY AT NORRISTON, PENNSYLVANIA IN DEED BOOK 4940, PAGE 2031.
- NAME AND ADDRESS OF THE OWNER OF THE SUBJECT TRACT:
PAT SPARANGO
506 S. BETHLEHEM PIKE
FORT WASHINGTON, PA 19034
- NAME AND ADDRESS OF THE EQUITABLE OWNER OF THE SUBJECT TRACT:
HALLMARK HOMES - SPRING HOUSE COURT LLC
865 EASTON RD, SUITE 320
WARRINGTON, PA 18976
- AREA STATISTICS:
GROSS TRACT AREA = 57,689 S.F.
NET TRACT AREA = 55,233 S.F.



SITE LOCATION MAP 1" = 2000'

PLAN SHEET INDEX

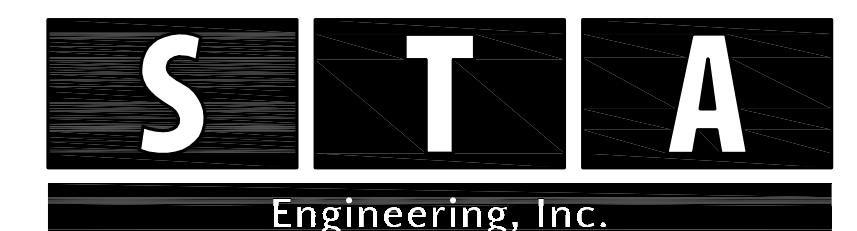
SHEET NO.	PLAN TITLE	ISSUE DATE	LAST REV'D
1 OF 13	COVER SHEET	OCT. 1, 2019	JUNE 19, 2026
2 OF 13	LAND DEVELOPMENT PLAN	OCT. 1, 2019	JUNE 19, 2026
3 OF 13	EXISTING FEATURES/DEMOLITION PLAN	OCT. 1, 2019	JUNE 19, 2026
4 OF 13	AERIAL PHOTO PLAN	OCT. 1, 2019	JUNE 19, 2026
5 OF 13	CONSTRUCTION IMPROVEMENT PLAN & DETAIL SHEET	OCT. 1, 2019	JUNE 19, 2026
6 OF 13	EROSION AND SEDIMENT CONTROL PLAN	OCT. 1, 2019	JUNE 19, 2026
7 OF 13	EROSION AND SEDIMENT CONTROL DETAIL SHEET	OCT. 1, 2019	JUNE 19, 2026
8 OF 13	PCSM PLAN	OCT. 1, 2019	JUNE 19, 2026
9 OF 13	LANDSCAPE PLAN	OCT. 1, 2019	JUNE 19, 2026
10 OF 13	CONSTRUCTION DETAIL SHEET	OCT. 1, 2019	JUNE 19, 2026
11 OF 13	PLAN AND PROFILE BETHLEHEM PIKE, S.R. 0309	OCT. 1, 2019	JUNE 19, 2026
12 OF 13	PENNDOT DETAIL SHEET	OCT. 1, 2019	JUNE 19, 2026
13 OF 13	PLAN AND PROFILE SANITARY SEWER	OCT. 1, 2019	JUNE 19, 2026
14 OF 13	MAINTENANCE AND PROTECTION OF TRAFFIC PLAN	OCT. 1, 2019	JUNE 19, 2026

SUPPORTING DOCUMENTS:

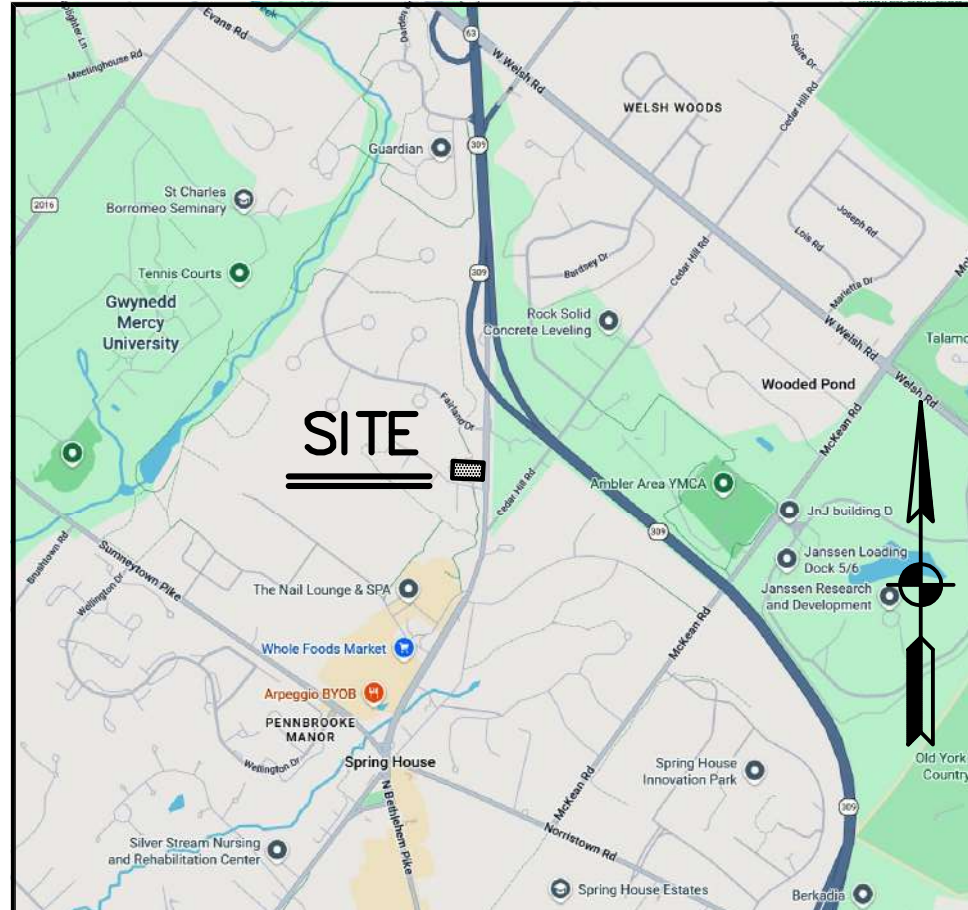
	DATE
1. POST-CONSTRUCTION STORMWATER PLAN NARRATIVE REPORT	JUNE 19, 2026
2. STORMWATER INFILTRATION REPORT PREPARED BY PENN'S TRAIL ENVIRONMENTAL, LLC	MAY 7, 2019
3. EROSION AND SEDIMENT CONTROL PLAN NARRATIVE	MAY 15, 2026
4. TRAFFIC ACCESS STUDY PREPARED BY HEINRICH & KLEIN ASSOCIATES, INC.	JUNE 14, 2018

PREPARED FOR
HALLMARK HOMES - SPRING HOUSE COURT LLC

865 EASTON ROAD, SUITE 320
WARRINGTON, PA 18976



Civil Engineers • Land Surveyors
2499 KNIGHT ROAD, PENNSBURG, PA 18073
PH: (215) 679-0200; www.stotac.com



SITE LOCATION MAP 1"=2000'

ZONING DATA

DATA OBTAINED FROM LOWER GWYNEDD TOWNSHIP ZONING ORDINANCE, REFERENCE TITLE 6, CHAPTER 1269A.	
DISTRICT CLASSIFICATION - "E-2" - RESIDENTIAL DISTRICT	
PROPOSED USE: CARRIAGE HOMES	
REQUIRED	PROVIDED
MINIMUM LOT AREA: 20 AC.	1.27 AC. **
MINIMUM LOT WIDTH @ STREET LINE: 200 FT.	200.03 FT.
MAXIMUM BUILDING COVERAGE: 40 %	12.3 % **
MAXIMUM IMPERVIOUS SURFACE COVERAGE: 40 %	22.3 % **
MAXIMUM BUILDING HEIGHT: 35 FT.	107 FT.
MAXIMUM BUILDING LENGTH: 110 FT.	107 FT.
MINIMUM PARKING SPACES EXCLUSIVE OF GARAGES (2.5 SPACES/UNIT): 7.5 SP.	8 SP.
MINIMUM INTERIOR SETBACKS: 3 UNITS	3 UNITS
MAXIMUM DENSITY (2.6 UNITS/AC.): 30 FT.	N/A
1. SHORT SIDE TO SHORT SIDE: 60 FT.	N/A
2. LONG SIDE TO ANY CONDITION: 50 % (0.63 AC.)	84.3 % (1.07 AC.)
MINIMUM OPEN SPACE: 50 % (0.63 AC.)	84.3 % (1.07 AC.)
* EXISTING NON-CONFORMANCE-VARIANCE GRANTED	
** BASED ON 1.27 AC.	

ZONING VARIANCE

AT AN MAY 14, 2026 ZONING HEARING, THE LOWER GWYNEDD TOWNSHIP ZONING HEARING BOARD GRANTED A VARIANCE FROM SECTION 1269A.03(a) REQUIRING A LOT AREA OF 20 ACRES FOR DEVELOPMENT.

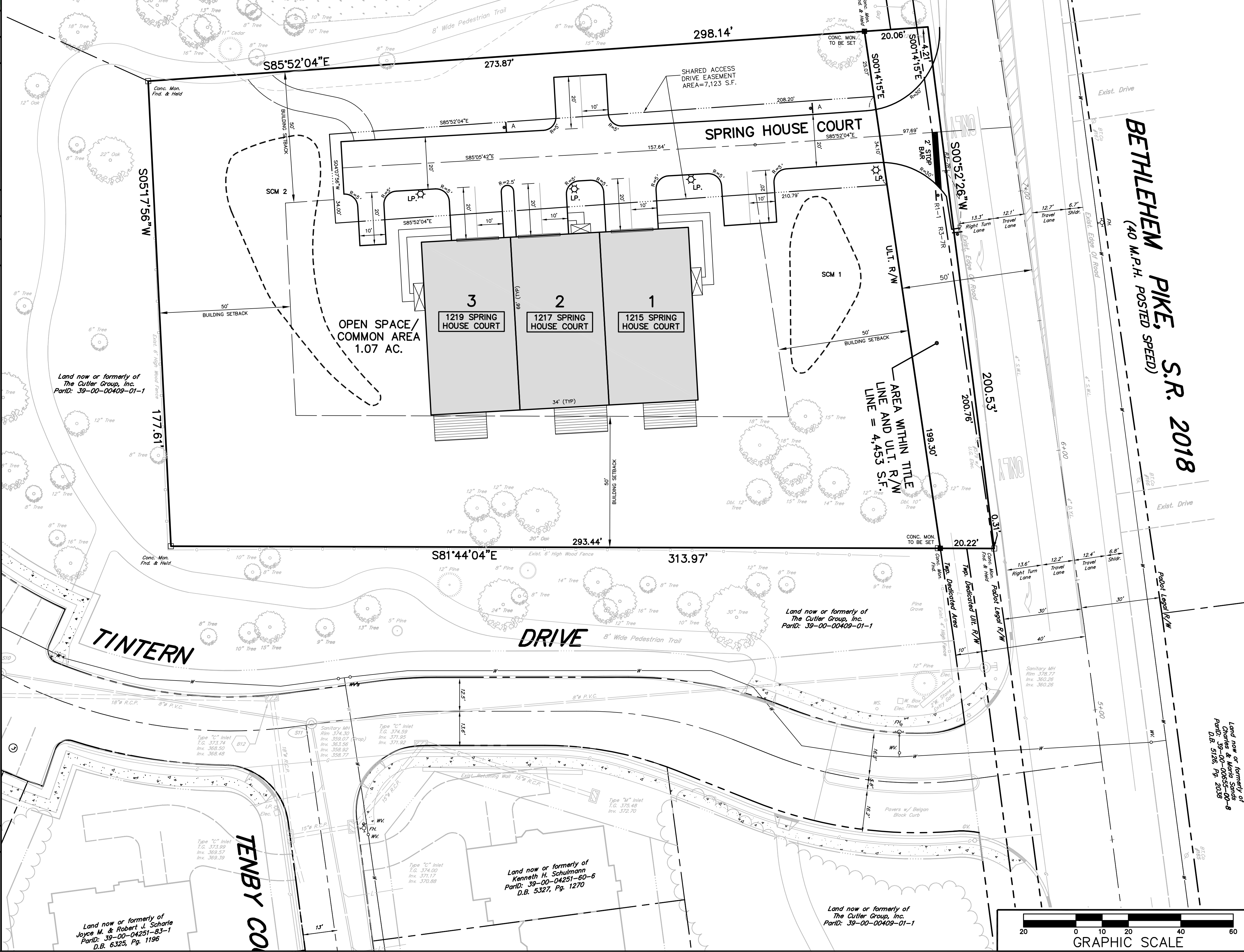
NOTES

- EXISTING TOPOGRAPHY AND TITLE LINE INFORMATION TAKEN FROM EXISTING DEEDS, PLANS OF RECORD, THE RESERVE AT TREVELLYN AS-BUILT PLAN, AND A FIELD SURVEY PERFORMED BY THIS OFFICE FEBRUARY 2005 AND UPDATED IN 2019.
- CONTOUR DATA AS SHOWN HEREON IS BASED ON U.S.G.S. VERTICAL DATUM. BENCHMARK ELEVATION: 291.37 USGS/SEWER AUTHORITY DATUM. BENCHMARK DESCRIPTION: EXISTING MANHOLE #103 ALONG TREVELLYN CREEK, TAKEN FROM A SURVEY PLAN PREPARED FOR THE CUTLER GROUP, INC., BY UNIKER & WALLER, INC. (94166)
- NO PART OF THIS PROPERTY LIES WITHIN A FLOODPLAIN AREA AS DESCRIBED ON PANEL 278 OF 151 OF THE FEMA FLOOD INSURANCE RATE MAP NUMBER 4209102206, EFFECTIVE MARCH 2, 2016.
- ANY SCALED DIMENSIONS FROM THE PLAN SHALL NOT BE USED FOR CONSTRUCTION WITHOUT CONFIRMATION BY STA ENGINEERING, INC.
- THE CONTRACTOR SHALL NOTIFY THE TOWNSHIP ENGINEER AND THE BUILDING INSPECTOR 72 HOURS IN ADVANCE OF ANY AND ALL CONSTRUCTION.
- ALL PROPOSED UTILITIES SHALL BE UNDERGROUND. PROPOSED UNITS TO BE SERVICED WITH PUBLIC WATER PROVIDED BY NORTH WALES' WATER AUTHORITY AND PUBLIC SEWER COLLECTION AND CONVEYANCE PROVIDED BY LOWER GWYNEDD TOWNSHIP AND TREATMENT BY AMBLER BOROUGHS. EXISTING ON-LOT WATER AND SEWER FACILITIES SHALL BE REMOVED IN ACCORDANCE WITH ALL APPLICABLE PA, D.E.P., LOCAL, AND STATE GUIDELINES IF FOUND TO PRESENT DURING CONSTRUCTION OF THE CARRIAGE HOMES.
- CONSTRUCTION OF THE IMPROVEMENTS MUST BE IN ACCORDANCE WITH LOWER GWYNEDD TOWNSHIP AND PAOT PUBLICATION 408 SPECIFICATIONS, THE PENNSYLVANIA DEPARTMENT OF HEALTH OR OTHER APPROPRIATE AGENCIES.
- CONSTRUCTION OF ALL SANITARY SEWERS AND APPURTENANCES SHALL BE PERFORMED IN ACCORDANCE WITH LOWER GWYNEDD TOWNSHIP STANDARDS. THE PROPOSED SANITARY SEWER CONVEYANCE SYSTEM WILL BE DEDICATED TO, AND OWNED AND MAINTAINED BY, LOWER GWYNEDD TOWNSHIP.
- NO BURNING OF DEBRIS IS ALLOWED ON THE SITE. ALL WASTE MUST BE DISPOSED OF PROPERLY.
- THERE SHALL BE NO DISTURBANCE OF OPEN SPACE AREAS BEYOND THE LIMITS OF DISTURBANCE DEPICTED ON THE PLANS AND NO SITE WORK SHALL COMMENCE UNTIL THE APPROPRIATE PROTECTIVE MEASURES ARE INSTALLED.
- THE BUILDING FOOTPRINTS DEPICTED HEREON HAVE BEEN SHOWN FOR PLANNING AND GRADING PURPOSES ONLY. EXACT CONFIGURATION OF STRUCTURES (i.e. LENGTH, WIDTH, EXTENT) SHALL BE DEPENDENT ON FINAL ARCHITECTURAL DRAWINGS.
- NO DWELLING CONSTRUCTION ON ANY LOT SHALL BEGIN UNLESS THE LOT IS CLEARLY MARKED WITH A PERMANENT NUMBER AND SIGN FOR IDENTIFICATION.
- INDIVIDUAL SITE PLANS WITH NECESSARY GRADING INFORMATION SHALL BE SUBMITTED TO THE TOWNSHIP ALONG WITH ANY REQUEST FOR BUILDING PERMITS.
- AN AS-BUILT FOUNDATION LOCATION PLAN IS TO BE FILED WITH THE TOWNSHIP PRIOR TO PROCEEDING PAST CONSTRUCTION OF THE FIRST FLOOR DECK.
- ALL SUMP PUMPS AND ROOF DRAINS WILL DISCHARGE TO A VEGETATED SURFACE OR PROPOSED BMP.
- THE DEVELOPER, ITS SUCCESSORS AND ASSIGNS, HEREBY RESERVES THE RIGHT TO ENTER UPON EACH AND EVERY LOT AREA OF THE SUBDIVISION/DEVELOPMENT DEPICTED HEREON, WHETHER PRIOR OR SUBSEQUENT TO CONVEYANCE OR UNTIL EXPIRATION OF THE STATUTORY MAINTENANCE PERIOD FOLLOWING DEDICATION OF PUBLIC IMPROVEMENTS AS SET FORTH IN SECTION 509 OF THE PENNSYLVANIA MUNICIPALITIES AND REGULATIONS ACT, AS AMENDED, 53 P.S. §10509, FOR THE PURPOSE OF COMPLETING ANY LANDSCAPING AS REQUIRED BY THE MUNICIPALITY AND, FURTHER, TO MAKE SUCH MODIFICATIONS IN GRADING AND DRAINAGE IMPROVEMENTS ON ANY LOT AS MAY BE NECESSARY IN THE DISCRETION OF THE DEVELOPER, ITS SUCCESSORS AND ASSIGNS AND/OR THE MUNICIPAL ENGINEER FOR SATISFACTORY STORMWATER MANAGEMENT.
- PRECAST CONCRETE MONUMENTS SHALL BE SET AS SHOWN HEREON BY A PA LICENSED PROFESSIONAL LAND SURVEYOR. MONUMENTS TO BE THIRTY INCHES BY FOUR INCHES BY FOUR INCHES, WITH FORTY-FIVE DEGREE BEVELED EDGES. ■ INDICATES MONUMENTS TO BE SET.
- ALL LOT CORNERS SHALL BE PINNED AT THE COMPLETION OF FINAL GRADING.
- COMMON OPEN SPACE SHALL NOT BE SEPARATELY SOLD OR FURTHER DEVELOPED OR SUBDIVIDED.
- WITHIN OPEN SPACES DEPICTED HEREON (A) CLEARING OF TREES, EXCEPT AS NOTED, IS NOT PERMITTED. (B) DUMPING OF DEBRIS WITHOUT PERMITS MAY BE REMOVED WITH PERMISSION FROM THE TOWNSHIP. (C) DEBRIS EXISTING PRIOR TO CONSTRUCTION MUST BE REMOVED AND PROPERLY DISPOSED OF.
- ANY LIGHTING FIXTURES ARE TO BE APPROVED BY LOWER GWYNEDD TOWNSHIP PRIOR TO INSTALLATION.
- THE AREA BETWEEN THE TITLE LINE AND THE ULTIMATE RIGHT OF WAY OF BETHLEHEM PIKE IS HEREBY OFFERED FOR DEDICATION TO THE AGENCY HAVING JURISDICTION.
- PROPOSED UNITS TO BE SPRINKLERED PER THE DIRECTION OF THE FIRE MARSHAL.
- SEWAGE PLANNING APPROVAL WAS GRANTED FOR 3 NEW CARRIAGE HOMES BY LETTER FROM DEP DATED OCTOBER 3, 2008.
- ANY DAMAGE INCURRED WITHIN THE PUBLIC RIGHT-OF-WAY AS A RESULT OF CONSTRUCTION IS TO BE REPAIRED AT THE OWNER'S SOLE EXPENSE.
- A HOMEOWNERS ASSOCIATION WILL BE ESTABLISHED FOR OWNERSHIP AND MAINTENANCE RESPONSIBILITIES FOR THE OPEN SPACE AREA, THE STORMWATER MANAGEMENT FACILITIES, THE PAVED TRAIL AND THE SHARED ACCESS DRIVEWAY.
- DRIVEWAY POST LAMPS WILL BE PROVIDED FOR EACH UNIT AS SHOWN ON THE PLANS.

WAIVERS GRANTED

- THE FOLLOWING WAIVERS WERE GRANTED ON MARCH 10, 2020 PER RESOLUTION NO. 2020-07:
- §1230.16, WHICH REQUIRES A SEPARATE APPLICATION FOR A PRELIMINARY AND FINAL SUBMISSION.
 - §1230.16(c)(2)(3)(4)(c), WHICH REQUIRES THAT ALL EXISTING FEATURES WITHIN 200 FEET OF THE PROPERTY BOUNDARY BE DEPICTED ON THE PLAN.
 - §1230.37(a) & §1230.61(a), WHICH REQUIRES CURB ALONG ALL EXISTING ROADS ABUTTING A LAND DEVELOPMENT.
 - §1230.38, WHICH REQUIRES THE MAXIMUM CURB CUT OR DRIVEWAY WIDTH AT THE STREET LINE TO BE A MAXIMUM OF 20 FEET.
 - §1230.45 (a), WHICH REQUIRES SIDEWALK ALONG EXISTING STREETS AND PEDESTRIAN TRAILS IN ALL SUBDIVISIONS AND LAND DEVELOPMENTS IN LOCATIONS AS DETERMINED BY THE BOARD OF SUPERVISORS.
 - §1241.401(c), WHICH REQUIRES A MINIMUM PIPE SIZE OF 18-INCH DIAMETER FOR STORM SEWER PIPES.

SITE STATISTICS	STORMWATER MANAGEMENT NOTES	LEGEND
1. SUBJECT TRACT MAY BE IDENTIFIED BY MONTGOMERY COUNTY TAX ASSESSMENT INFORMATION AS FOLLOWS: LOWER GWYNEDD TOWNSHIP PARID: 39-00-00412-00-8	1. THE BMP FACILITIES SHOWN ON THESE PLANS ARE A BASIC AND PERPETUAL PART OF THE STORMWATER MANAGEMENT SYSTEM FOR THE PROPOSED SITE. LOCATED IN LOWER GWYNEDD TOWNSHIP, MONTGOMERY COUNTY, AND AS SUCH ARE TO BE PROTECTED AND PRESERVED IN ACCORDANCE WITH THE APPROVED PLANS BY THE OWNERS, THEIR SUCCESSORS AND ASSIGNS OF THESE LANDS. LOWER GWYNEDD TOWNSHIP AND/OR ITS AGENTS RESERVE THE RIGHT AND PRIVILEGE TO ENTER UPON THESE LANDS FROM TIME TO TIME FOR THE INSPECTION OF SAID FACILITIES IN ORDER TO DETERMINE THAT THE STRUCTURAL AND DESIGN INTEGRITY IS BEING MAINTAINED AND THE PROPER OPERATION AND MAINTENANCE OF THE FACILITIES IS BEING CONDUCTED.	DECK OR PATIO
2. RECORDED DEED DATA IS AS FOLLOWS: AS RECORDED IN THE OFFICE FOR THE RECORDING OF DEEDS, ETC., IN AND FOR THE COUNTY OF MONTGOMERY AT NORRISTOWN, PENNSYLVANIA IN DEED BOOK 4940, PAGE 2031.	2. IN THE EVENT THAT MAINTENANCE AND STRUCTURAL INTEGRITY ARE NOT MAINTAINED BY THE OWNER AS REQUIRED BY THE TOWNSHIP, THE OWNER HEREBY GRANTS TO THE TOWNSHIP THE RIGHT TO ENTER UPON SUCH PROPERTY AND TO PERFORM ANY AND ALL IMPROVEMENTS, REVISIONS OR MAINTENANCE AS MAY BE DETERMINED NECESSARY BY THE TOWNSHIP AND TO RECOVER THE COSTS THEREOF FROM THE PROPERTY OWNER BY ALL LAWFUL MEANS INCLUDING, BUT NOT LIMITED TO, THE IMPOSITION OF A MUNICIPAL LIEN ON THE SUBJECT PROPERTY."	OPEN SPACE
3. NAME AND ADDRESS OF THE OWNER OF THE SUBJECT TRACT: PAT SPARANO 508 S. BETHLEHEM PIKE FORT WASHINGTON, PA 19034		BUILDING
4. NAME AND ADDRESS OF THE EQUITABLE OWNER OF THE SUBJECT TRACT: HALLMARK HOMES - SPRING HOUSE COURT LLC 865 EASTON RD, SUITE 320 WARRINGTON, PA 18976		
5. AREA STATISTICS: GROSS TRACT AREA = 57,689 S.F. NET TRACT AREA = 55,233 S.F.		
6. SITE ADDRESS: 1217 NORTH BETHLEHEM PIKE AMBLER, PA 19002		
7. AREA STATISTICS: GROSS TRACT AREA = 57,689 S.F. NET TRACT AREA = 55,233 S.F.		
	STORMWATER STATEMENT	
	I ACKNOWLEDGE THAT ANY REVISION TO THE APPROVED DRAINAGE PLAN MUST BE APPROVED BY THE TOWNSHIP, AND THAT A REVISED EROSION AND SEDIMENT CONTROL PLAN MUST BE SUBMITTED TO THE TOWNSHIP AND THE MONTGOMERY COUNTY CONSERVATION DISTRICT FOR APPROVAL, IF APPLICABLE.	
	DATE _____ APPLICANT SIGNATURE _____	



RECORDING ACKNOWLEDGEMENTS

COMMONWEALTH OF PENNSYLVANIA }
COUNTY OF MONTGOMERY } SS:
ON THIS, THE _____ DAY OF _____, 20____, BEFORE ME, THE UNDERSIGNED OFFICER, PERSONALLY APPEARED RICHARD R. CARROLL, III, BEING DULY SWORN ACCORDING TO LAW, DEPOSES AND SAYS THAT HE IS THE PRESIDENT OF HALLMARK HOMES - SPRING HOUSE COURT LLC, A PENNSYLVANIA LIMITED LIABILITY CORPORATION, AND THAT HE BEING DULY AUTHORIZED TO DO SO, EXECUTED THE FOREGOING INSTRUMENT FOR THE PURPOSES THEREIN CONTAINED BY SIGNING AS PRESIDENT.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND OFFICIAL SEAL.

NOTARY PUBLIC
I, RICHARD R. CARROLL, III, ACKNOWLEDGE MYSELF TO BE THE PRESIDENT OF HALLMARK HOMES - SPRING HOUSE COURT LLC, A PENNSYLVANIA LIMITED LIABILITY CORPORATION, AND THAT AS BEING AUTHORIZED TO DO SO, CERTIFY THAT THE CORPORATION IS THE SOLE REGISTERED OWNER OF THE LAND HEREIN SUBDIVIDED AND THAT THERE ARE NO SUITS PENDING AFFECTING THE TITLE OF THE SAME AND THAT I DO HEREBY ADOPT THIS PLAN AND DESIRE THE SAME TO BE RECORDED. I DO FURTHER SAVE THE TOWNSHIP HARMLESS AND IDENTIFY THE TOWNSHIP OF LOWER GWYNEDD AGAINST ANY LIABILITY OR LOSS RESULTING FROM THE SUBDIVISION OR DEVELOPMENT OF THIS PLAN FOR WHATEVER REASON PRESENT OR FUTURE.

BY: RICHARD R. CARROLL, III, PRESIDENT
APPROVED BY THE PLANNING COMMISSION OF THE TOWNSHIP OF LOWER GWYNEDD THIS _____ DAY OF _____, 2026.

CHAIRMAN _____
SECRETARY _____
APPROVED BY THE BOARD OF SUPERVISORS OF THE TOWNSHIP OF LOWER GWYNEDD THIS _____ DAY OF _____, 2026.
CHAIRMAN _____
SECRETARY _____
TOWNSHIP ENGINEER _____

MCPC No. 26-0143-001
PROCESSED AND REVIEWED, A REPORT HAS BEEN PREPARED BY THE MONTGOMERY COUNTY PLANNING COMMISSION IN ACCORDANCE WITH THE MUNICIPALITIES PLANNING CODE.
CERTIFIED THIS DATE _____

FOR THE DIRECTOR
MONTGOMERY COUNTY PLANNING COMMISSION
RECORDED IN THE OFFICE FOR THE RECORDING OF DEEDS, ETC., IN AND FOR THE COUNTY OF MONTGOMERY, AT NORRISTOWN, PENNSYLVANIA IN PLAN BOOK _____ PAGE _____ ON _____, 2026.

ENGINEER'S CERTIFICATION

I, SUSAN A. RICE, P.E., HEREBY CERTIFY THAT THIS PLAN IS IN CONFORMANCE WITH THE ZONING, BUILDING, SANITATION, AND ALL OTHER APPLICABLE TOWNSHIP ORDINANCES AND REGULATIONS AND THAT THIS PLAN IS ACCURATE TO WITHIN ONE (1) PART IN THREE HUNDRED (300).

SUSAN A. RICE, P.E.

SURVEYOR'S CERTIFICATION

I, CLIFFORD T. STOUT, P.L.S., HEREBY CERTIFY THAT THIS PLAN REPRESENTS A SURVEY MADE BY STA ENGINEERING, INC., THAT THE MONUMENTATION SHOWN HEREON EXISTS AS LOCATED, AND THAT ALL DIMENSIONAL AND GEODETIC DETAILS ARE CORRECT.

CLIFFORD T. STOUT, P.L.S.	
5 PER VARIOUS REVIEWS	JUNE 19, 2026
4 PER EQUITABLE OWNER	MAY 15, 2026
3 REVISE WATER MAIN CONNECTION PER NWMA COMMENT	NOV. 25, 2020
2 PER GILMORE & ASSOC. LTR (5/22/20) & WMAHON LTR (4/30/20)	JUNE 24, 2020
1 PER VARIOUS REVIEWS	MAR. 12, 2020
No. _____	DATE _____
REVISIONS _____	PLAN ORIGIN DATE _____
PLAN ORIGIN DATE _____	OCT. 1, 2019

LAND DEVELOPMENT PLAN
AS PART OF
SPRING HOUSE COURT
PREPARED FOR
HALLMARK HOMES - SPRING HOUSE COURT LLC
SITE SITUATE IN
LOWER GWYNEDD TOWNSHIP
MONTGOMERY COUNTY, PENNSYLVANIA

STA
Engineering, Inc.
Civil Engineers • Land Surveyors
2499 KNIGHT ROAD, PENNSBURG, PA 18073
PH: (215) 679-0200; www.stotac.com

PLAN SCALE	DRAFTED BY	PROJECT MANAGER	PLAN SHEET NUMBER
HORIZONTAL:	J.A.C.	S.A.R.	
1"=20'	PROJECT NUMBER	DRAWING FILE NUMBER	
	6646	6646LD	1 OF 13

SOILS DATA	
DATA OBTAINED FROM N.R.C.S. SOIL SURVEY.	
DsB	- DOYLESTOWN SILT LOAM, 3 TO 8 PERCENT SLOPES
UuSB	- URBAN LAND--UDORTHENTS, SHALE AND SANDSTONE COMPLEX, 0 TO 8 PERCENT SLOPES

DATA OBTAINED FROM N.R.C.S. SOIL SURVEY.

DsB - DOYLESTOWN SILT LOAM, 3 TO 8 PERCENT SLOPES

UusB - URBAN LAND-UDORTHENTS, SHALE AND SANDSTONE
COMPLEX, 0 TO 8 PERCENT SLOPES

NOTES

1. EXISTING TOPOGRAPHY AND TITLE LINE INFORMATION TAKEN FROM EXISTING DEEDS, PLANS OF RECORD, THE RESERVE AT TREWELLYN AS-BUILT PLAN, AND A FIELD SURVEY PERFORMED BY THIS OFFICE FEBRUARY 2005 AND UPDATED IN 2019.
2. CONTOUR DATA AS SHOWN HEREON IS BASED ON U.S.G.S. VERTICAL DATUM.

BENCHMARK ELEVATION: 291.37 USGS/SEWER AUTHORITY DATUM

BENCHMARK DESCRIPTION: EXISTING MANHOLE #13 ALONG TREWELLYN CREEK. (TAKEN FROM A SURVEY PLAN PREPARED FOR THE CUTLER GROUP, INC., BY URMILER & WALTER, INC. JOB NO. 94186)

3. NO PART OF THIS PROPERTY LIES WITHIN A FLOODPLAIN AREA AS DESCRIBED ON PLAN 278 OF 451 OF THE FLOOD FLOOD INSURANCE RATE MAP NUMBER 42091C0278G, EFFECTIVE MARCH 2, 2016.

1. EXISTING TOPOGRAPHY AND TITLE LINE INFORMATION TAKEN FROM EXISTING DEEDS, PLANS OF RECORD, THE RESERVE AT TREWELYN ASH, AND A SURVEY OF SURVEY PERFORMED BY THIS OFFICE FEBRUARY 2005 AND UPDATED IN 2019.

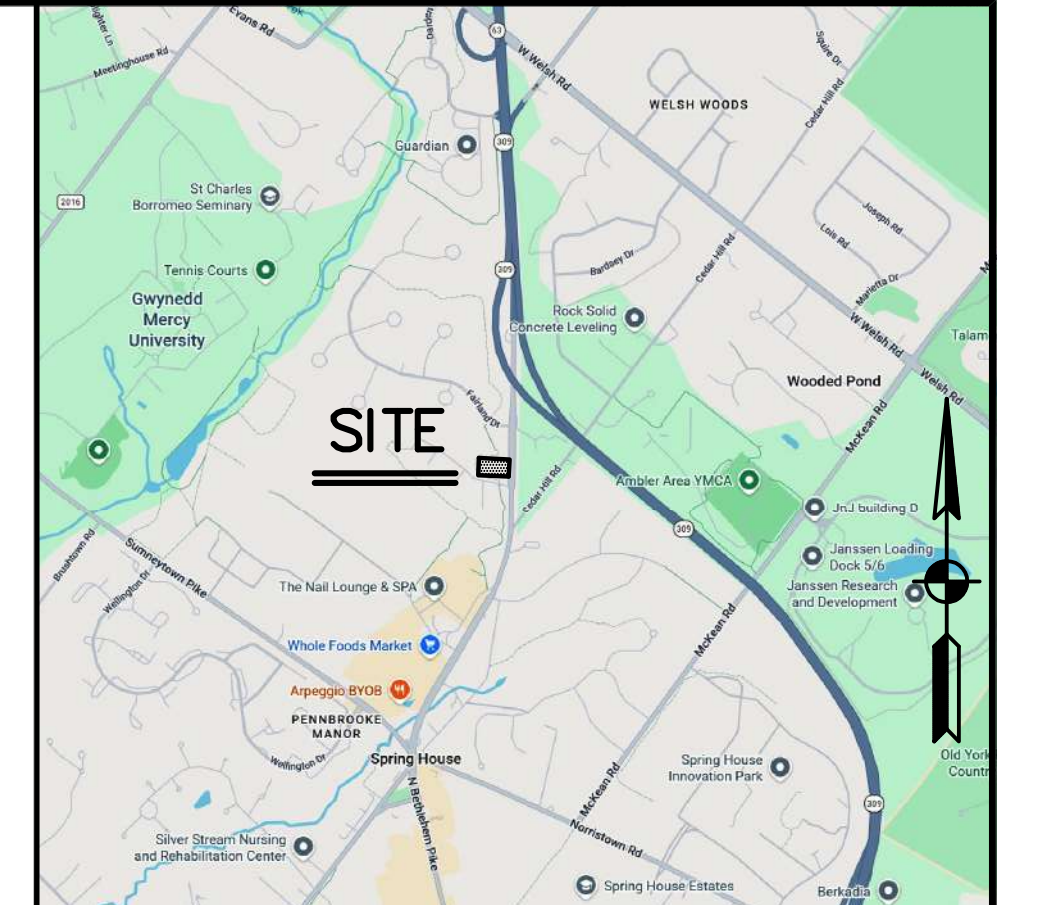
2. CONTOUR DATA AS SHOWN HEREON IS BASED ON U.S.G.S. VERTICAL DATUM.

BENCHMARK ELEVATION: 291.37' USGS/SEWER AUTHORITY DATUM

BENCHMARK DESCRIPTION: EXISTING MANHOLE #13 ALONG TREWELYN CREEK. TAKEN FROM A SURVEY PLAN PREPARED FOR THE CUTLER GROUP, INC., BY URMILER & WALTER, INC. JOB NO. 94166)

3. NO PART OF THIS PROPERTY LIES WITHIN A FLOODPLAIN AREA AS DESCRIBED ON PANEL 278 OF 451 OF THE FLOOD INSURANCE RATE MAP NUMBER 420201C02789, EFFECTIVE MARCH 2, 2016.

DENOTES EXISTING FEATURES
TO BE REMOVED



SITE LOCATION MAP 1"=2000'

1. SUBJECT TRACT MAY BE IDENTIFIED BY MONTGOMERY COUNTY TAX ASSESSMENT INFORMATION AS FOLLOWS:

LOWER GWYNEDD TOWNSHIP
PARID: 39-00-00412-00-8

2. RECORDED DEED DATA IS AS FOLLOWS:

AS RECORDED IN THE OFFICE FOR THE RECORDING OF DEEDS,
ETC., IN AND FOR THE COUNTY OF MONTGOMERY AT NORRISTON,
PENNSYLVANIA IN DEED BOOK 4940, PAGE 2031.

3. NAME AND ADDRESS OF THE OWNER OF THE SUBJECT TRACT:

PAT SPARANGO
506 S. BETHLEHEM PIKE
FORT WASHINGTON, PA 19034

4. NAME AND ADDRESS OF THE EQUITABLE OWNER OF THE SUBJECT TRACT:

HALLMARK HOMES - SPRING HOUSE COURT LLC
865 EASTON RD, SUITE 320
WARRINGTON, PA 18976

5. AREA STATISTICS:

GROSS TRACT AREA = 57,689 S.F.
NET TRACT AREA = 55,233 S.F.

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3. NAME AND ADDRESS OF THE OWNER OF THE SUBJECT TRACT:

PAT SPARANGO
506 S. BETHLEHEM PIKE
FORT WASHINGTON, PA 19034
4. NAME AND ADDRESS OF THE EQUITABLE OWNER OF THE SUBJECT TRACT:

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865 EASTON RD, SUITE 320
WARRINGTON, PA 18976
5. AREA STATISTICS:

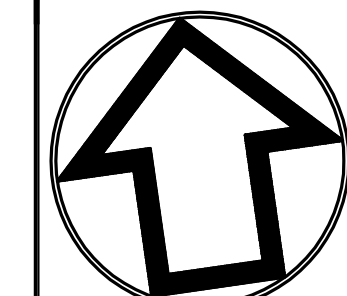
GROSS TRACT AREA = 57,689 S.F.
NET TRACT AREA = 55,233 S.F.

DATA OBTAINED FROM LOWER GWYNEDD TOWNSHIP ZONING ORDINANCE, TITLE SIX, CHAPTER 1269A.	
DISTRICT CLASSIFICATION - "E-2" - RESIDENTIAL DISTRICT	
<u>CATEGORY</u>	<u>REQUIRED/PERMITTED</u>
MINIMUM LOT AREA:	20 Ac.
MINIMUM LOT WIDTH @ STREET LINE:	200 FT.
MAXIMUM BUILDING COVERAGE:	20%
MAXIMUM IMPERVIOUS SURFACE COVERAGE:	40%
MAXIMUM BUILDING HEIGHT:	35 FT.
MAXIMUM BUILDING LENGTH:	110 FT.
MINIMUM PARKING SPACES (2.5 SPACES/UNIT):	7 SP.
MAXIMUM DENSITY (2.6 UNITS/Ac.):	3 UNITS
MINIMUM INTERIOR SETBACKS:	
1. SHORT SIDE TO SHORT SIDE:	30 FT.
2. LONG SIDE TO ANY CONDITION:	60 FT.
MINIMUM OPEN SPACE:	50%

DATA OBTAINED FROM LOWER GWYNEDD TOWNSHIP ZONING ORDINANCE,
TITLE SIX, CHAPTER 1269A.

DISTRICT CLASSIFICATION -- "E-2" -- RESIDENTIAL DISTRICT

<u>CRITERIA</u>	<u>REQUIRED/PERMITTED</u>
MINIMUM LOT AREA:	20 Ac.
MINIMUM LOT WIDTH ● STREET LINE:	200 FT.
MAXIMUM BUILDING COVERAGE:	20 %
MAXIMUM IMPERVIOUS SURFACE COVERAGE::	40 %
MAXIMUM BUILDING HEIGHT:	35 FT.
MAXIMUM BUILDING LENGTH:	110 FT.
MINIMUM PARKING SPACES (2.5 SPACES/UNIT):	7.5 SP.
MAXIMUM DENSITY (2.6 UNITS/Ac.):	3 UNITS
MINIMUM INTERIOR SETBACKS:	
1. SHORT SIDE:	30 FT.
2. LONG SIDE TO ANY CONDITION:	60 FT.
MINIMUM OPEN SPACE:	50 %



5	PER VARIOUS REVIEWS	JUNE 19, 2028
4	PER EQUITABLE OWNER	NOV. 15, 2026
3	REVERSE WATER MAIN CONNECTION PER NWWA COMMENT	MAY. 25, 2020
2	PER GILMORE & ASSOC. LTR (5/22/20) & MCMAHON LTR (4/30/20)	JUNE 24, 2020
1	PER VARIOUS REVIEWS	MAR. 12, 2020
No.	REVISIONS	DATE
	PLAN ORIGINATION DATE	OCT. 1, 2019

EXISTING FEATURES/DEMOLITION PLAN

AS PART OF

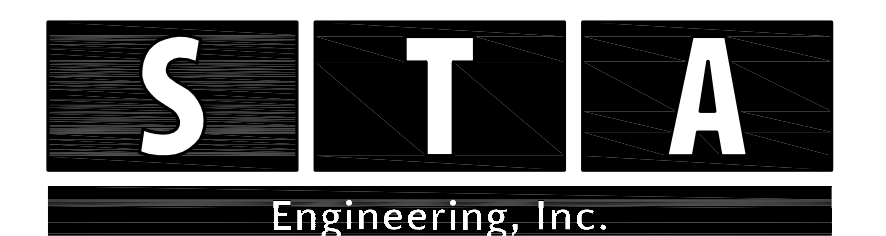
SPRING HOUSE COURT

PREPARED FOR

**HALLMARK HOMES –
SPRING HOUSE COURT LLC**

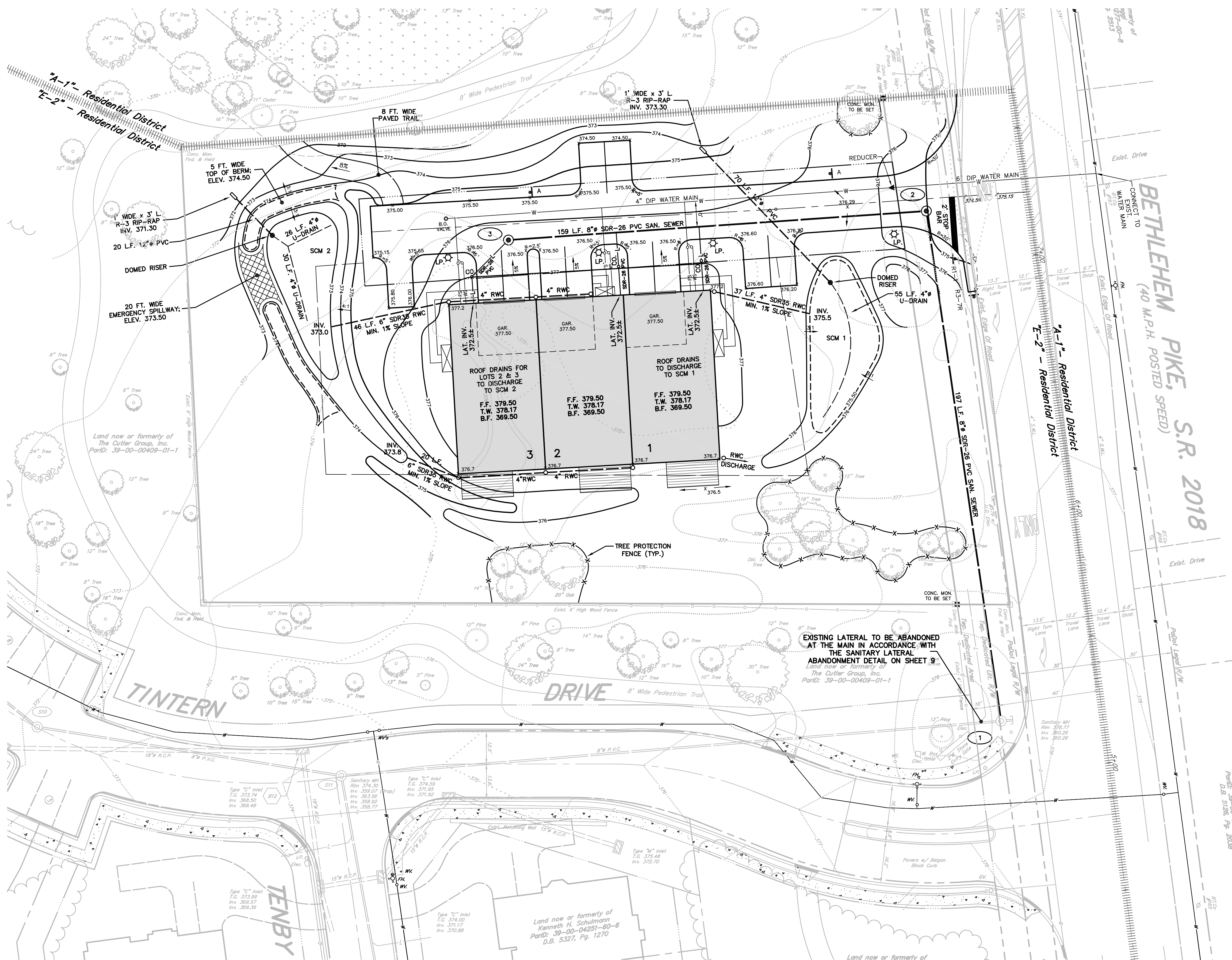
SITE SITUATE IN

**LOWER GWYNEDD TOWNSHIP
MONTGOMERY COUNTY, PENNSYLVANIA**



Civil Engineers • Land Surveyors
2499 KNIGHT ROAD, PENNSBURG, PA 18073
PH: (215) 679-0200; www.stotac.com

PLAN SCALE HORIZONTAL: 1"=20'	DRAFTED BY J.A.C.	PROJECT MANAGER S.A.R.	PLAN SHEET NUMBER
	PROJECT NUMBER 6646	DRAWING FILE NUMBER 6646EF	2 OF 13



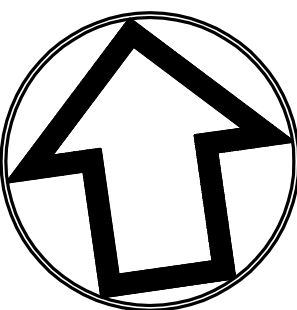
CONSTRUCTION NOTES

1. ALL LAWN AREAS SHALL BE DESIGNED AT A MINIMUM SLOPE OF 2%.
2. ALL PAVED SLOPES TO HAVE A MINIMUM SLOPE OF 1%.
3. ALL STORM SEWER SHALL HAVE A MINIMUM OF 2' OF COVER OVER THE TOP OF THE PIPES.
4. SANITARY SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH LOWER GWYNEDD TOWNSHIP. SANITARY SEWER MAINS AND LATERALS TO BE CONSTRUCTED WITH SDR-26 PVC.
5. A HORIZONTAL SEPARATION OF 10 FEET AND/OR A VERTICAL CLEARANCE OF 18 INCHES (MEASURED BETWEEN THE OUTER WALLS) SHALL BE MAINTAINED BETWEEN THE SANITARY SEWER AND ANY OTHER UTILITY PIPELINES. WHERE PIPELINES MUST CROSS UNDER A SEWER, THE INSTALLATION MUST ALSO PROVIDE ADEQUATE STRUCTURAL SUPPORT FOR THE SEWER TO PREVENT DEFLECTION AND BREAKING OF THE SEWER. WHERE PROPER CLEARANCES CAN NOT BE PROVIDED, THE SEWER SHALL BE CONCRETE ENCASED FOR A DISTANCE OF 10 FEET ON EITHER SIDE OF THE CONFLICT.
6. A MINIMUM COVER OF 4 FEET SHOULD BE MAINTAINED OVER SANITARY SEWERS. LATERAL SHALL MAINTAIN A MINIMUM SLOPE OF 1/4-INCH PER FOOT (2%).
7. ALL CONSTRUCTION MATERIALS MUST COMPLY WITH AND CONFORM TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, LAWS, ORDINANCES, RULES AND CODES, AND ALL APPLICABLE OSHA REQUIREMENTS.
8. PUBLIC WATER TO BE PROVIDED BY NORTH WALES WATER AUTHORITY (NWWA). CONNECTION AND CONSTRUCTION TO BE IN ACCORDANCE WITH NWWA STANDARDS AND SPECIFICATIONS WHERE REQUIRED. NWWA TO OBTAIN HOP FOR WATER MAIN EXTENSION.
9. NO PLANTINGS OR STRUCTURES SHOULD BE LOCATED WITHIN THE SANITARY SEWER EASEMENTS OR WITHIN 10 FEET OF THE SEWER OR LATERALS.
10. PRIOR TO GRADING OF THE SITE, TOPSOIL SHOULD BE STRIPPED FROM THE SURFACE AND STOCKPILED IN THE PROPOSED AREAS. AFTER COMPLETION OF ROUGH GRADING, A MINIMUM OF SIX (6) INCHES OF TOPSOIL SHALL BE RETURNED TO REMAINING DISTURBED AREAS PRIOR TO FINISH GRADE AND SEEDING. NO TOPSOIL IS TO BE REMOVED FROM THE SITE WITHOUT TOWNSHIP APPROVAL.
11. A MINIMUM OF 4 FT. OF COVER SHALL BE PROVIDED OVER WATER SERVICES AND LATERALS.
12. ALL UNITS TO BE EQUIPPED WITH AUTOMATIC SPRINKLERS IN ACCORDANCE WITH NFPA STANDARD 13R MULTIPLE UNIT DEVELOPMENTS.

SIGN LEGEND

NEW	R1-1	STOP SIGN
EXIST. TO BE RELOCATED	R3-7R	RIGHT LANE MUST TURN RIGHT
NEW	A	NO PARKING BY ORDER OF FIRE MARSHALL

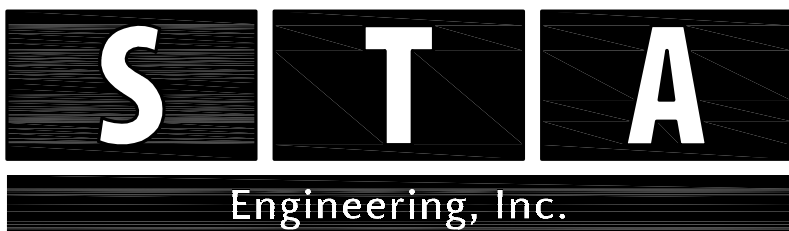
10' x 20' DECK OR PATIO



5	PER VARIOUS REVIEWS	JUNE 19, 2026
4	PER EQUITABLE OWNER	MAY 15, 2026
3	REVISE WATER MAIN CONNECTION PER NWWA COMMENT	NOV. 25, 2020
2	PER GILMORE & ASSOC. LTR (5/22/20) & MCMAHON LTR (4/30/20)	JUNE 24, 2020
1	PER VARIOUS REVIEWS	MAR. 12, 2020
No.	REVISIONS	DATE
	PLAN ORIGINATION DATE	OCT. 1, 2019

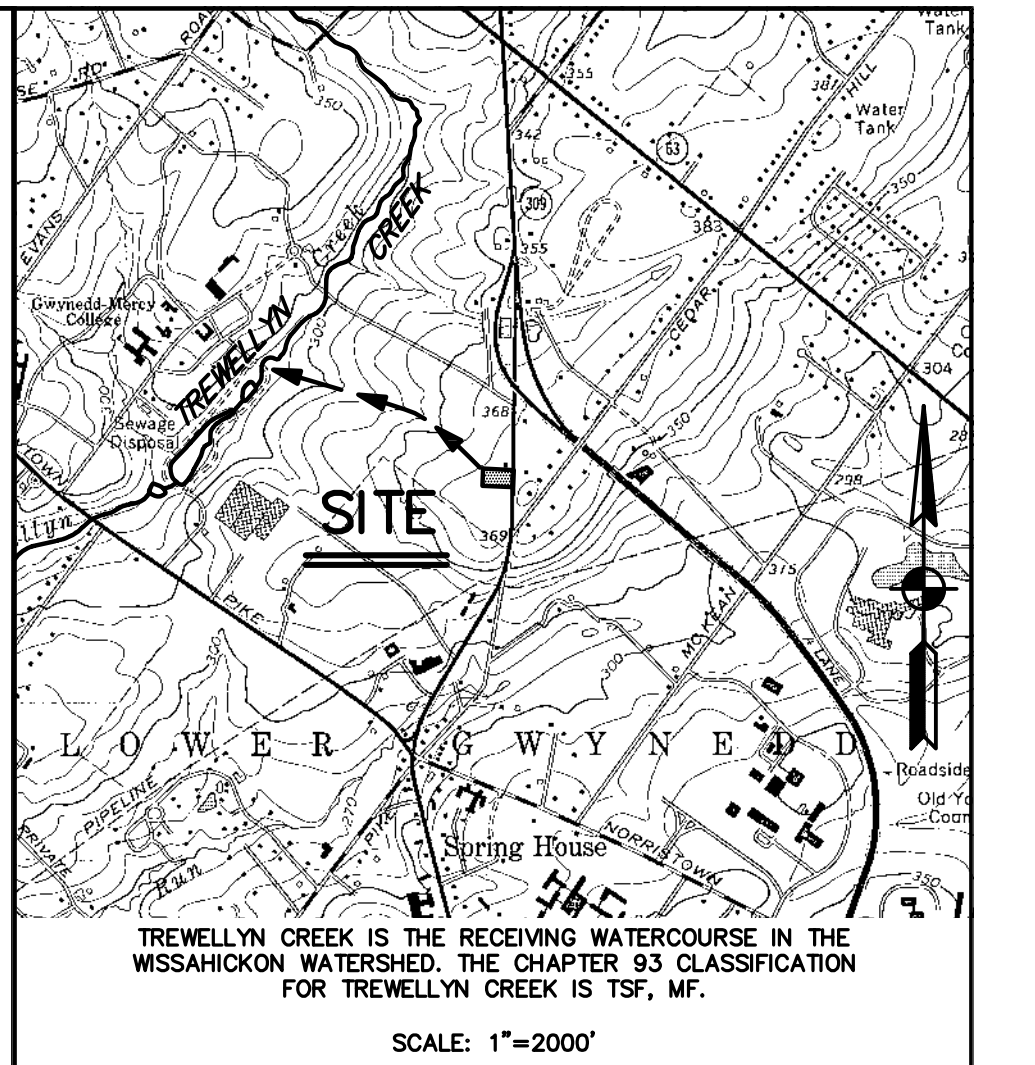
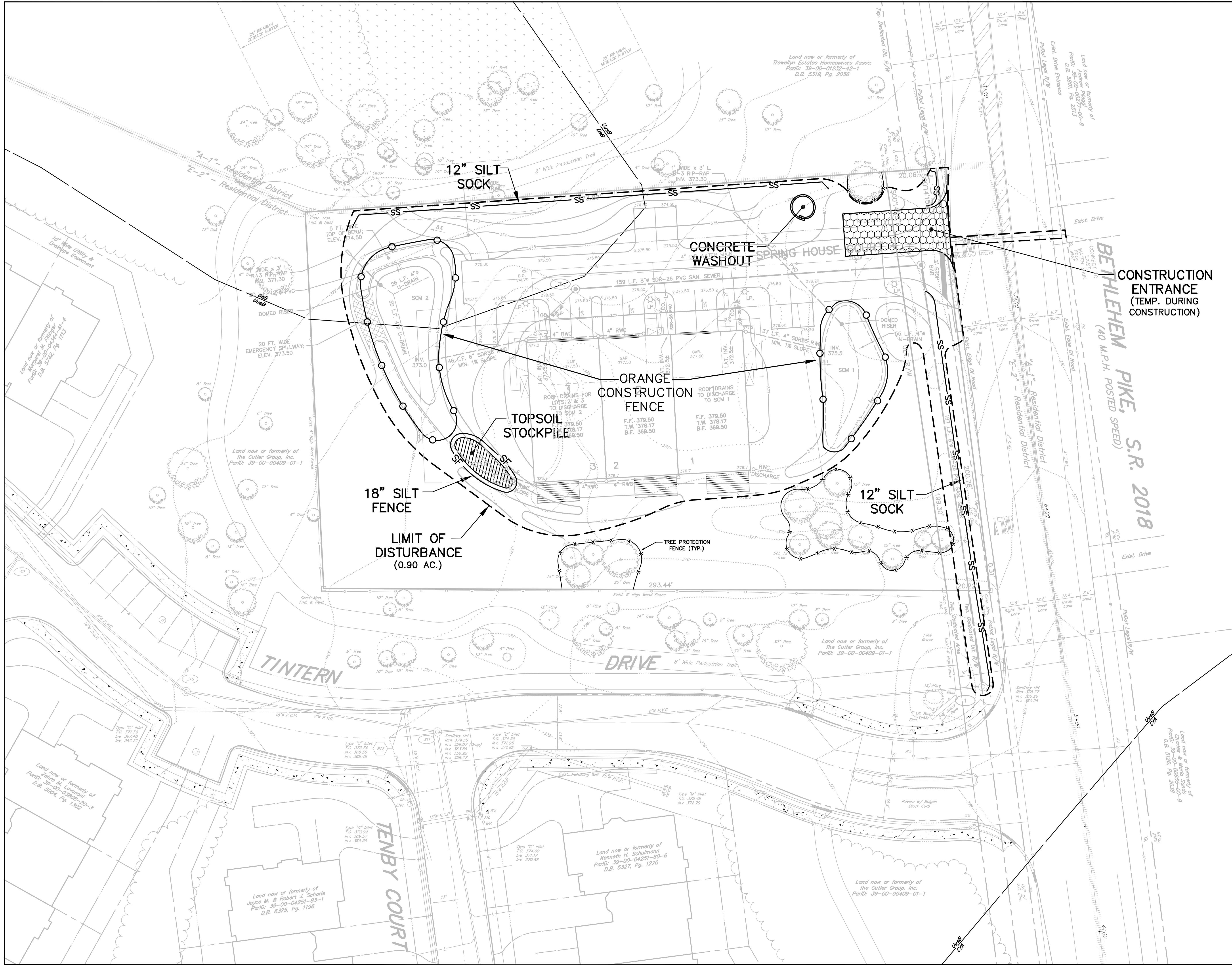
CONSTRUCTION IMPROVEMENT PLAN & DETAIL SHEET

AS PART OF
SPRING HOUSE COURT
PREPARED FOR
**HALLMARK HOMES -
SPRING HOUSE COURT LLC**
SITE SITUATE IN
LOWER GWYNEDD TOWNSHIP
MONTGOMERY COUNTY, PENNSYLVANIA



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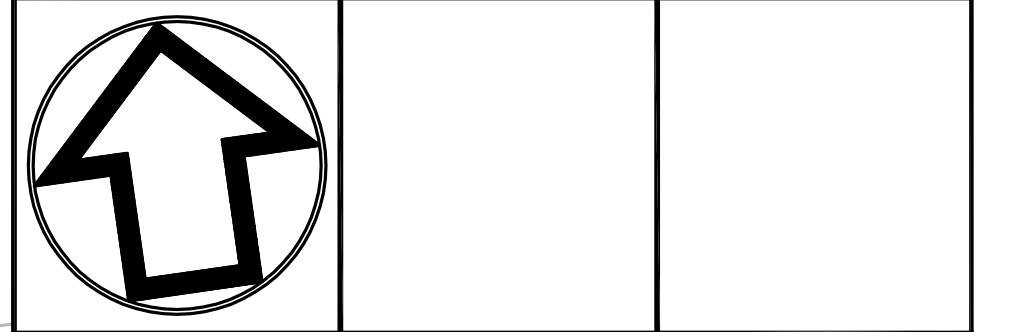
PLAN SCALE HORIZONTAL:	DRAFTED BY J.A.C.	PROJECT MANAGER S.A.R.	PLAN SHEET NUMBER
1"=20'	6646	6646CI	4 OF 13



E & S LEGEND	
	TREE PROTECTION FENCE
	12" SILT SOCK
	18" SILT FENCE
	TIRE CLEANER
	TOPSOIL STOCKPILE
	LIMIT OF DISTURBANCE
	SOIL LINE
	ORANGE CONSTRUCTION FENCE

SOILS DATA	
DATA OBTAINED FROM N.R.C.S. SOIL SURVEY.	
DsB	DOYLESTOWN SILT LOAM, 3 TO 8 PERCENT SLOPES
UsB	URBAN LAND-UDORTHENTS, SHALE AND SANDSTONE COMPLEX, 0 TO 8 PERCENT SLOPES

RECYCLING STATEMENT	
INDIVIDUALS RESPONSIBLE FOR EARTH DISTURBANCE ACTIVITIES MUST ENSURE THAT PROPER MECHANISMS ARE IN PLACE TO CONTROL WASTE MATERIALS. CONSTRUCTION WASTES INCLUDE, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, ETC. THAT COULD ADVERSELY IMPACT WATER QUALITY. MEASURES SHOULD BE PLANNED AND IMPLEMENTED FOR HOUSEKEEPING, MATERIALS MANAGEMENT, AND LITTER CONTROL. WHEREVER POSSIBLE, RECYCLING OF EXCESS MATERIALS IS PREFERRED, RATHER THAN DISPOSAL.	



5	PER VARIOUS REVIEWS	JUNE 19, 2026
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1	PER VARIOUS REVIEWS	MAR. 12, 2020
No.	REVISIONS	DATE
	PLAN ORIGIN DATE	OCT. 1, 2019

EROSION & SEDIMENT CONTROL PLAN	
AS PART OF	
SPRING HOUSE COURT	
PREPARED FOR	
HALLMARK HOMES - SPRING HOUSE COURT LLC	
SITE SITUATE IN	
LOWER GWYNEDD TOWNSHIP MONTGOMERY COUNTY, PENNSYLVANIA	

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Engineering, Inc.

Civil Engineers • Land Surveyors

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PLAN SCALE	DRAFTED BY	PROJECT MANAGER	PLAN SHEET NUMBER
HORIZONTAL:	J.A.C.	S.A.R.	
1"=20'	PROJECT NUMBER	DRAWING FILE NUMBER	
	6646	6646ES	5 OF 13

THIS IS NOT NECESSARILY AN ALL-INCLUSIVE LIST.

RESOLUTION OF SOIL TYPE LIMITATIONS

1. APPROPRIATE PRECAUTIONS SHOULD BE TAKEN TO SAFEGUARD WORKERS DURING ALL TRENDING AND EXCAVATION OPERATIONS. ALL APPLICABLE OSHA STANDARDS AND REQUIREMENTS MUST BE IMPLEMENTED AT ALL TIMES.

2. SPECIAL PRECAUTIONS, SUCH AS COATING WITH NON-CORROSIVE MATERIALS, SHOULD BE TAKEN TO PROTECT UNDERGROUND PIPES, CONDUITS AND CABLES FROM SOILS WITH THE POTENTIAL TO CAUSE CORROSION.

3. SEASONAL HIGH WATER TABLES WILL BE MANAGED BY EFFECTIVE SITE GRADING, DRAINAGE FACILITIES WITHIN ROADWAYS, AND BASEMENT DRAINS COUPLED WITH INDIVIDUAL TAIL SUMP PUMPS, IF REQUIRED.

4. EXCAVATION OPERATIONS SHOULD BE CONDUCTED WITHIN THE DESIGNATED EXCAVATION LIMITS. EXCAVATION OPERATIONS SHOULD BE STOPPED IMMEDIATELY IF EXCAVATING EQUIPMENT CANNOT REMOVE MATERIAL BY MECHANICAL MEANS.

5. NO GRADING SHALL BE PERFORMED IN FROZEN SOILS FOR SOIL TYPES DETERMINED TO HAVE LIMITATIONS DUE TO FROST AND/OR LISTED AS POOR UNDER WATER GRADING.

6. EXCAVATION LIMITS ARE LIMITED WITHIN AREAS PRONE TO FLOODING.

7. WHEN UNSUITABLE MATERIAL IS DISCOVERED IN EMBANKMENT AND WATERWAY AREAS, SUITABLE MATERIAL, THAT COMPLIES WITH COMPACTION DATA, SPECIFICATIONS MUST BE IMPORTED. MATERIAL MUST BE SUITABLE FOR STABILIZATION AND THE MINIMIZATION OF EROSION. EROSION CONTROL MEASURES MUST BE INSTALLED IMMEDIATELY TO PREVENT FURTHER EROSION UNLESS IT CAN BE SHOWN THAT CUTS AND FILLS DO NOT POSSESS A HAZARD TO PUBLIC SAFETY OR TO SURFACE WATERS. ROAD FILL MATERIAL MAY NEED TO BE IMPORTED IF SOILS HAVE LOW STRENGTH.

8. EXCAVATION TESTS SHOULD BE PERFORMED ON SITE TO DETERMINE SUITABLE AREAS FOR INFILTRATION FACILITIES.

9. IF SOILS HAVING LIMITATIONS DUE TO SPECIAL, CARE SHOULD BE TAKEN WHEN USING THESE SOILS FOR BACKFILL AROUND BASIN ABOVE PIPES. THE USE OF A FILTER DIAPHRAGM, ANTI-DEEP SLOAR OR OTHER ACCEPTABLE DEVICE MUST BE USED.

10. TOP SOIL SHALL BE AMENDED BEFORE RE-SPREADING OVER LAWN AREAS. SOIL TESTING MAY BE REQUIRED TO DETERMINE THE PROPER APPLICATION OF SOIL AMENDMENTS TO PROMOTE GROWTH OF DESIRED VEGETATION.

11. DISTURBED AREAS SHALL BE REVEGETATED WITHIN THE DESIGNATED REVEGETATION PERIOD. REVEGETATION SHALL BE MAINTAINED AND MONITORED TO ENSURE THAT THE MATING AND VEGETATION FOR THE PERMANENT CONDITION. SEDIMENT THAT ACCUMULATES WITHIN THESE BMP'S CAN BE DISPOSED OF WITHIN LANDSCAPED AREAS ON-SITE. DISTURBED AREAS THAT DO NOT DRAIN TO A BMP MUST BE STABILIZED IMMEDIATELY.

ING AND EXCAVATION OPERATIONS. ALL APPLICABLE OSHA STANDARDS

17. "EROSION PROBABLE DUE TO GRAVE DISCHARGE OF AN EROSION CONTROL MEASURE. CONTINUE BMP DURING CONSTRUCTION AND STABILIZED WITH APPROPRIATE EROSION CONTROL MATTING AND VEGETATION FOR THE PERMANENT CONDITION. SEDIMENT THAT ACCUMULATES WITHIN THESE BMP'S CAN BE DISPOSED OF WITHIN LANDSCAPED AREAS ON-SITE. DISTURBED AREAS THAT DO NOT DRAIN TO A BMP MUST BE STABILIZED IMMEDIATELY.

E & S STANDARD NOTES

* PLS IS THE PRODUCT OF THE PERCENTAGE OF PURE SEED TIMES PERCENTAGE GERMINATION DIVIDED BY 100. FOR EXAMPLE, TO SECURE THE ACTUAL PLANTING RATE FOR SWITCHGRASS, DIVIDE 12 POUNDS PLS SHOWN ON THE SEED TAG, THUS, IF THE PLS CONTENT OF A GIVEN SEED SAMPLE IS 80%, THE USER MUST DIVIDE 12 BY 0.80 TO OBTAIN THE POSITION OF SEED TO PLANT ONE ACRE. ALL MIXTURES IN THIS TABLE ARE SHOWN IN TERMS OF PLS.

NOTE: WHEN A DISTURBED AREA IS TO BE STABILIZED BY VEGETATION, NO MORE THAN 15,000 S.F. SHALL REACH FINAL GRADE WITHOUT BEING SEEDDED AND MULCHED. WAITING UNTIL EARTHWORKING ACTIVITIES ARE COMPLETED BEFORE SEEDING AND MULCHING OPERATIONS ARE COMPLETED IS NOT RECOMMENDED.

SOIL AMENDMENT	PER ACRE	PER 1,000 S.F.	PER 1,000 S.Y.	NOTES
AGRICULTURAL LIME	6 TONS	240 lb.	2,480 lb.	OR AS PER SOIL TEST; MAY NOT BE REAPPLIED

NOTES: A COMPOST BLANKET WHICH MEETS THE STANDARDS OF THIS CHAPTER MAY BE SUBSTITUTED FOR THE SOIL AMENDMENTS SHOWN IN THIS TABLE.

SOIL TESTING IS RECOMMENDED IN ORDER TO DETERMINE APPROPRIATE LIME AND FERTILIZATION RATES.

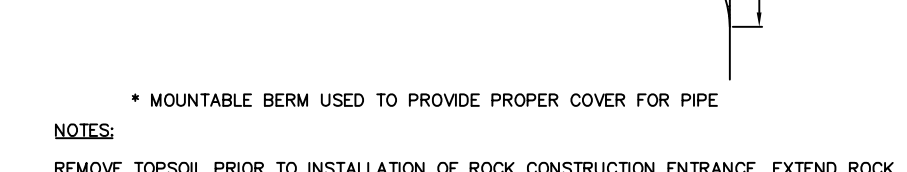
APPLY TO TOTAL AREA OF	PER YEAR
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SOIL TESTING IS RECOMMENDED IN ORDER TO DETERMINE APPROPRIATE LIME AND FERTILIZATION RATES.

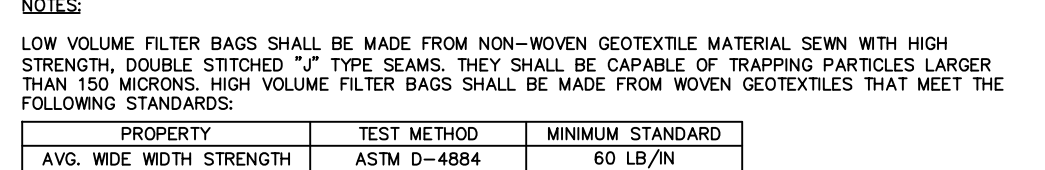
APPLICATION RATE (MIN.)		
PER 1 CRF	PER 1,000 S.F.	PER 1,000 S.Y.

1. STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKLED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDLOWN. A TRACTOR-DRAWN IMPLEMENT MAY BE USED TO "CRIMP" THE STRAW OR HAY INTO THE SOIL - ABOUT 3 INCHES. THIS METHOD SHOULD BE LIMITED TO SLOPES NO STEEPER THAN 3:1V. THE MACHINERY SHOULD BE OPERATED ON THE CORNER OF THE SLOPE OF HAY OR STRAW BY RUNNING OVER IT WITH TRACKED MACHINERY IS NOT RECOMMENDED.

- APPLICATION RATE FOR ANT HYDROGENUM SHOULD BE 2,000 LB/ACRE AT A MINIMUM.



NOT TO SCALE



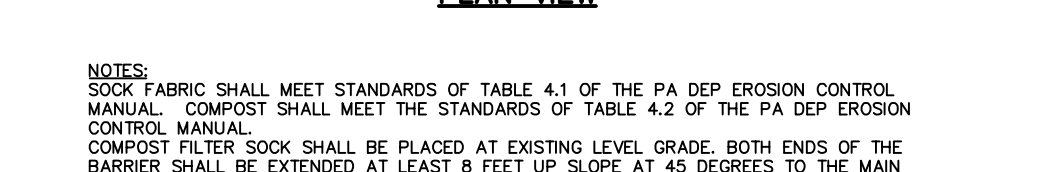
A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISCHARGE IS TO BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SOLIDS AND BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE DAMAGED. ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREA. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

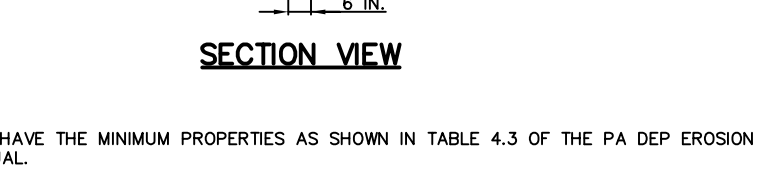
THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

STANDARD CONSTRUCTION DETAIL #3-16



STANDARD CONSTRUCTION DETAIL #4-1

NOT TO SCALE



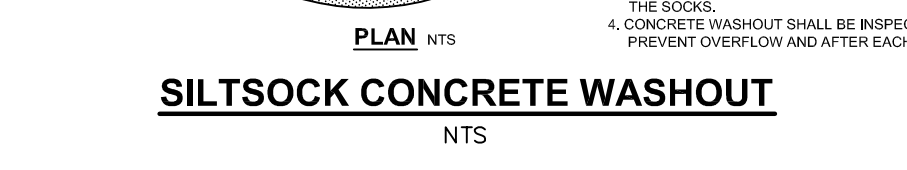
FABRIC SHALL HAVE THE MINIMUM PROPERTIES AS SHOWN IN TABLE 4.3 OF THE PA DEP EROSION CONTROL MANUAL.

SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVE GROUND HEIGHT OF

ANCE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN TRIBUTARY AREA IS PERMANENTLY

STANDARD CONSTRUCTION DETAIL #4-7
STANDARD SILT FENCE (18" HIGH)

NOT TO SCALE



13. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OR UNDISTURBED VEGETATED AREAS.

PLAN ORIGINATOR DATE OCT. 1, 2019

EROSION & SEDIMENT CONTROL DETAIL SHEET

AS PART OF

SPRING HOUSE COURT

AS PART OF

S T A

Civil Engineers • Land Surveyors
2499 KNIGHT ROAD, PENNSBURG, PA 18073
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PCSM NOTES

At such time that the site is stabilized and the temporary during construction erosion and sediment controls are removed, the permanent structural BMP will be installed and functioning. The structural BMP is intended to be a permanent facility that mitigates peak flows and addresses volume control in addition to promoting water quality.

The stormwater management BMP shall be owned and maintained by an HOA in perpetuity. The HOA shall conduct maintenance on a short-term and long-term schedule in accordance with the maintenance procedures outlined in this narrative and on the PCSM plan. The Municipality shall have the right, but not the duty, to inspect the stormwater management facilities, and if the property owner fails to do so, perform necessary maintenance.

Short Term:

Inspect BMP after major storm events for damage and/or erosion activity, paying close attention to the embankments, spillway, and berm. Repair erosion with appropriate measures immediately.

Inspect BMP plantings installed from containers on a monthly basis during the growing season for the first two years to evaluate plant establishment and mortality - replace dead plants with same or like plants able to establish in the cultural conditions present. If necessary, replace plants with a different species suitable to any microclimatic effects that might develop.

Specific BMP Construction Sequence and Long-Term Maintenance Notes:

RAIN GARDEN:

Construction Sequence:

1. Complete site grading and stabilize all areas upstream of the rain garden area.
2. Excavate rain garden to proposed invert depth and scarify the existing soil surfaces. Do not compact in-situ soils. If the area has been subject to compaction or sedimentation during construction, infiltration testing may be required during/prior to the construction of the BMP to verify the volume credits taken by design.
3. Install surrounding embankments and inlet and outlet control structures. Install u-drain in accordance with the detail and provide cap on the u-drain.
4. Install soil mix to required design depth and fine grade, being careful not to compact. Overfill is recommended to account for settlement. Light hand tamping is acceptable if necessary.
5. Prepare for seeding by eliminating any weed growth prior to seed installation using an appropriate herbicide to control undesirable vegetation. For optimal seed establishment, soil pH shall be between 5.5 and 6.5.
6. Apply seed by carefully proportioning seed for the entire area. Broadcast seed in two separate applications by applying seed at half the suggested rate for each application to ensure even and adequate coverage. After the full rate of seeding has been achieved, follow by rolling or tracking seed into the top 1/4 inch of soil to achieve good seed to soil contact - do not roll or track the seed when soil is wet.
7. Cover seeded area with a light layer of salt hay, threshed straw or pine needles.
8. Plant and mulch according to specifications on the landscape plan. Install any anti-grazing measures, if necessary.

Maintenance:

1. While vegetation is being established, pruning and weeding may be required. Weeds should be removed thereafter by hand.
2. Detritus may also need to be removed approximately twice per year. Perennial plantings may be cut down at the end of the growing season.
3. Mulch should be re-spread when erosion is evident and be replenished annually. Once every 2 to 3 years the entire area may require mulch replacement.
4. Rain gardens should be inspected at least four times per year, as well as after every storm greater than 1 inch for sediment build-up, erosion, vegetative conditions, etc.
5. During periods of extended drought, rain gardens may require watering.
6. Rain gardens should not be mowed on a regular basis.
7. Trees and shrubs should be inspected twice per year to evaluate health.
8. Evaluate the drain-down time of the rain garden to ensure the maximum time of 72 hours is not being exceeded. If drain-down time is exceeding the maximum, drain the rain garden via pumping and clean out perforated piping, if included. If slow drainage persists, evaluation by a professional engineer may be required to determine appropriate course of action. This includes but is not limited to replacement of the facility.

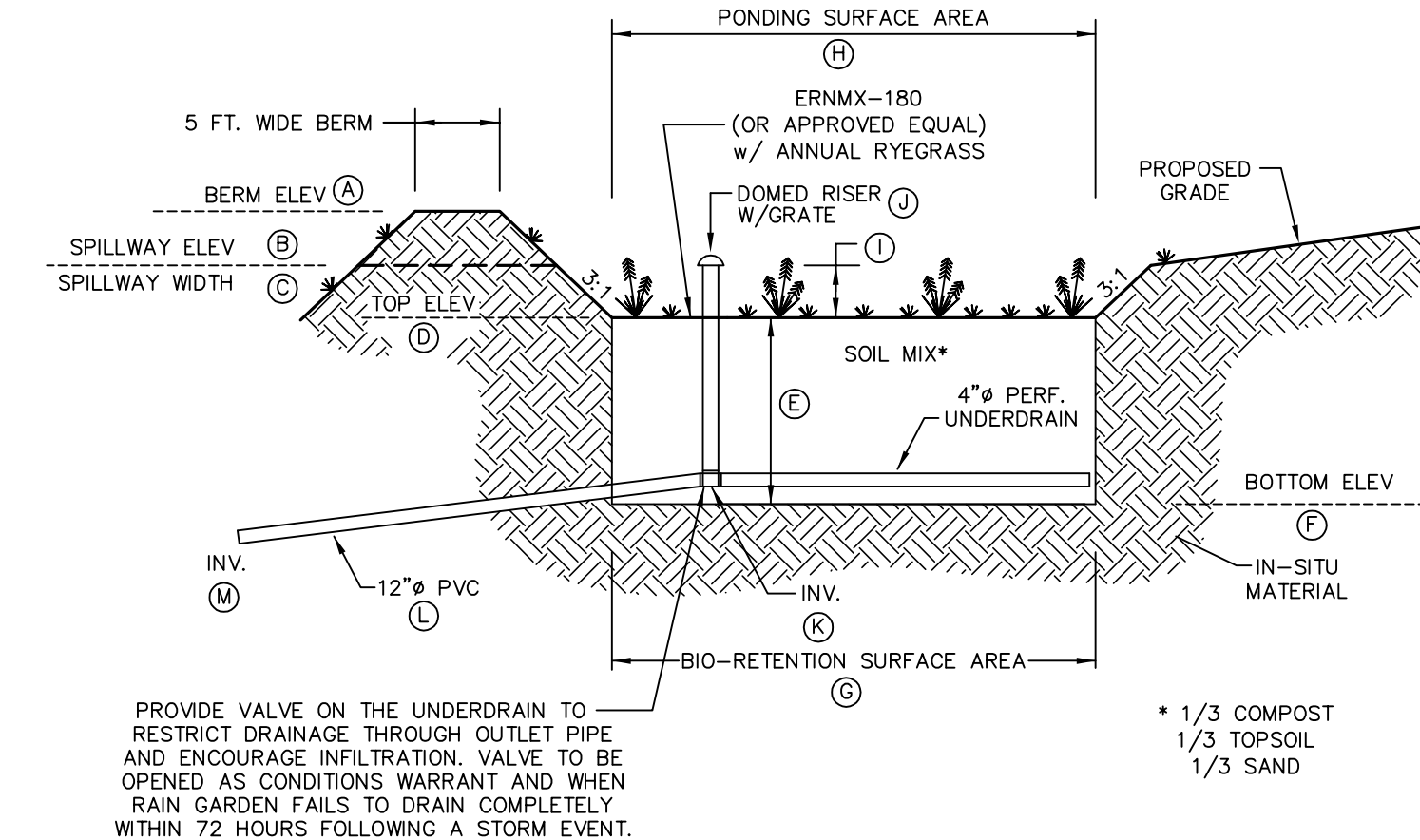
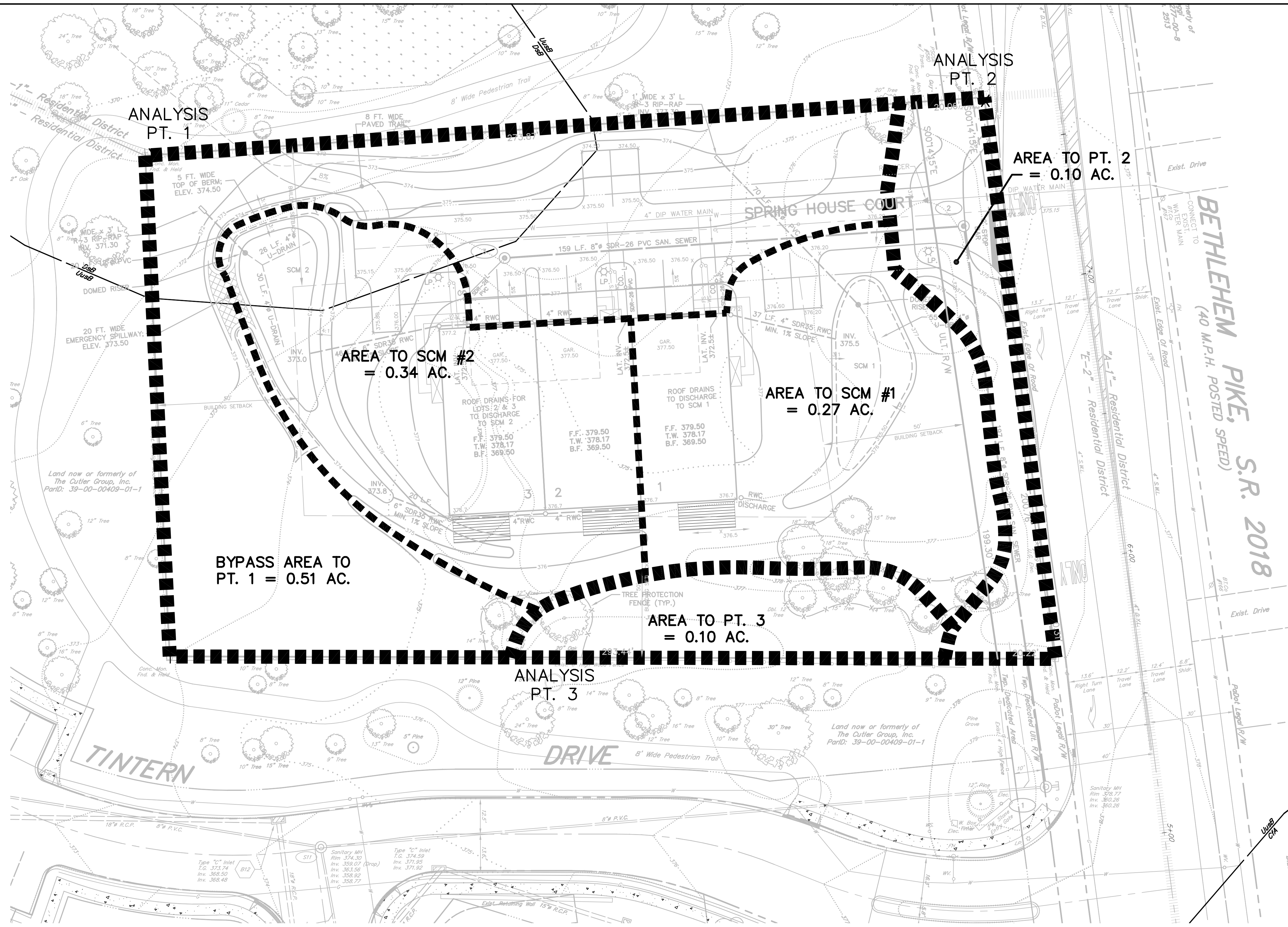
LANDSCAPE RESTORATION:

Construction Sequence:

1. All plant material to be installed in accordance with the planting practices stated in Chapter 3 of "Tree Maintenance" by P.F. Pinne (fifth or most recent edition).
2. Take extreme care in handling and installing all plants to prevent damage to bark, branches, and root balls.
3. All planting areas shall be free from weeds prior to the beginning of planting operation. Contact herbicide sprays should only be used as required and all manufacturers specifications followed.
4. Prepare tree and shrub planting pits with proper size excavations and backfill during planting with prepared backfill mixture. Backfill in layers, water thoroughly to allow settlement and remove air pockets.
5. Plant root balls at the same relation to grade as previously grown at the nursery. High or low root balls shall not be accepted.
6. Backfill planting soil of 50% topsoil and 50% peat moss shall be mixed with existing soil at a rate of 1:3 planting soil and 2:3 existing soil.
7. Fertilize all plants with appropriate starter fertilizer at time of planting.
8. All plantings must be thoroughly watered within the first 12 hours of installation. The contractor is responsible for providing water for this operation.
9. Mulch all plantings immediately after planting operations are completed with a three-inch (3") layer of finely shredded bark mulch or licorice root. The mulch shall be aged a minimum of 6 months. A granular pre-emergent weed control shall be spread prior to mulching. The limit of this mulch for deciduous trees and single evergreen trees shall be the area of the pit excavation. For all evergreen tree and shrub clusters, a fully mulched bed shall be created. Mulch planting beds entirely around and between all plants for a fully mulched bed. Depth shall be cleanly cut and tapered to match surrounding lawn grades.
10. All shrubs are to be mulched in groups. No singularly mulched shrubs will be accepted, unless a singular specimen shrub in lawn has been shown on the drawings. A continuous mulch bed shall be provided for each grouping or cluster of shrubs to the extent of their collective branch drip line.

Maintenance:

1. Application of a carefully selected herbicide around the protective tree shelters/tubes may be necessary, and reinforced by selective cutting/manual removal, if necessary for the initial 2 to 3 years of growth and may be necessary for up to 5 years until tree growth and tree canopy begins to form, naturally inhibiting weed growth (once shading is adequate, growth of invasive and other weeds will be naturally prevented, and the trees becomes self-maintaining).
2. Review of the new trees should be undertaken intermittently to determine if replacement trees should be provided (some modest rate of planting failure is usual).
3. Landscape restoration areas planted with a proper cover crop can be expected to require annual mowing to control invasive species.

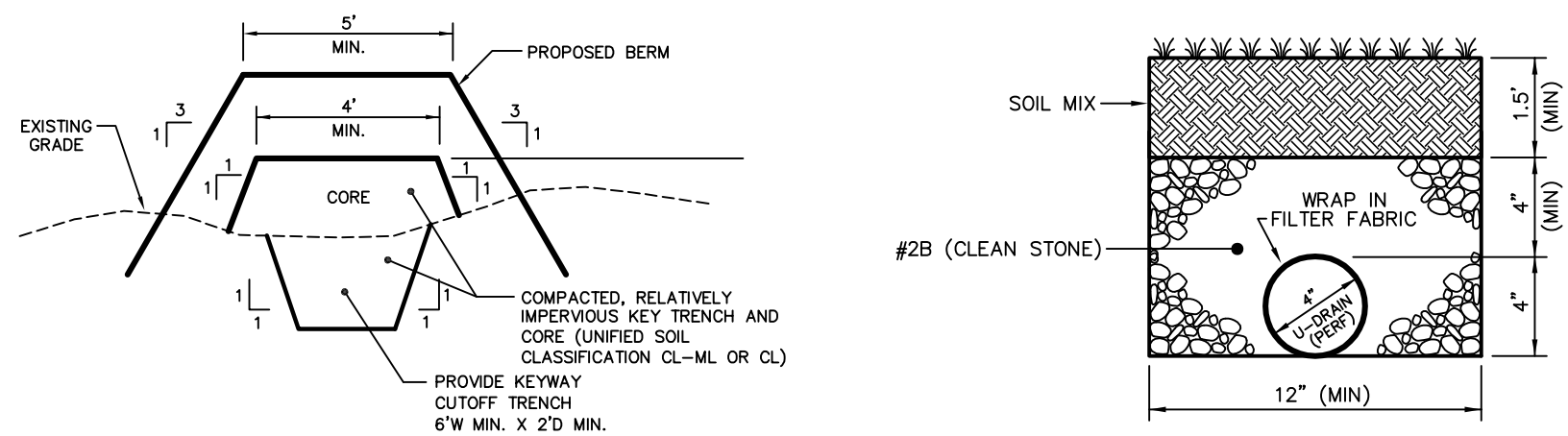


SCM NO.	BERM ELEV. (A)	SPILLWAY ELEV. (B)	SPILLWAY WIDTH (C)	TOP ELEV. (D)	SOIL MIX DEPTH (E)	BOTTOM ELEV. (F)	SURFACE AREA (G)	PONDING SURFACE AREA (H)	SURFACE STORAGE DEPTH (I)	T.O. (J)	U-DRAIN INV. (K)	PIPE LENGTH/ SLOPE (L-M OR CL)	INV. (N)
1	N/A	N/A	N/A	375.50	1.5 FT.	374.00	1,225 S.F.	1,493 S.F.	0.75 FT.	375.75	374.00	70 L.F./0.0100	373.30
2	374.00	373.50	20 FT.	373.00	1.5 FT.	371.50	1,120 S.F.	1,275 S.F.	0.25 FT.	373.25	371.50	20 L.F./0.0100	371.30

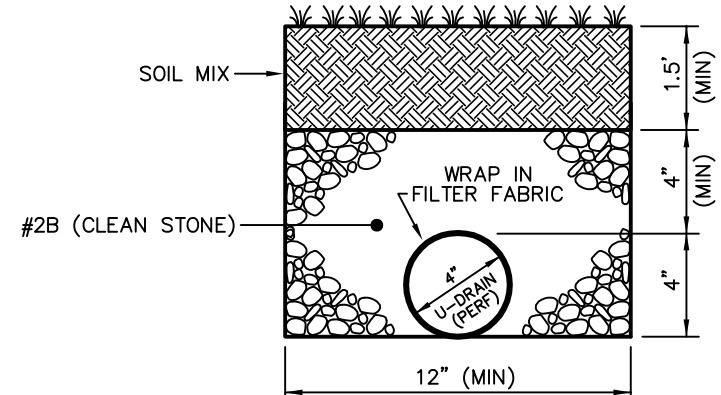
INFILTRATION SCM DETAIL

SCM I.D.	TOP OF BERM ELEV. (FT.)	EMERGENCY SPILLWAY ELEV. (FT.)	BOTTOM WIDTH (FT.)	TOP WIDTH (FT.)	SPILLWAY LINING	FLOW DEPTH (FT.)	FREEBOARD (FT.)
2	374.00	373.50	20	23	S75	0.25	0.25

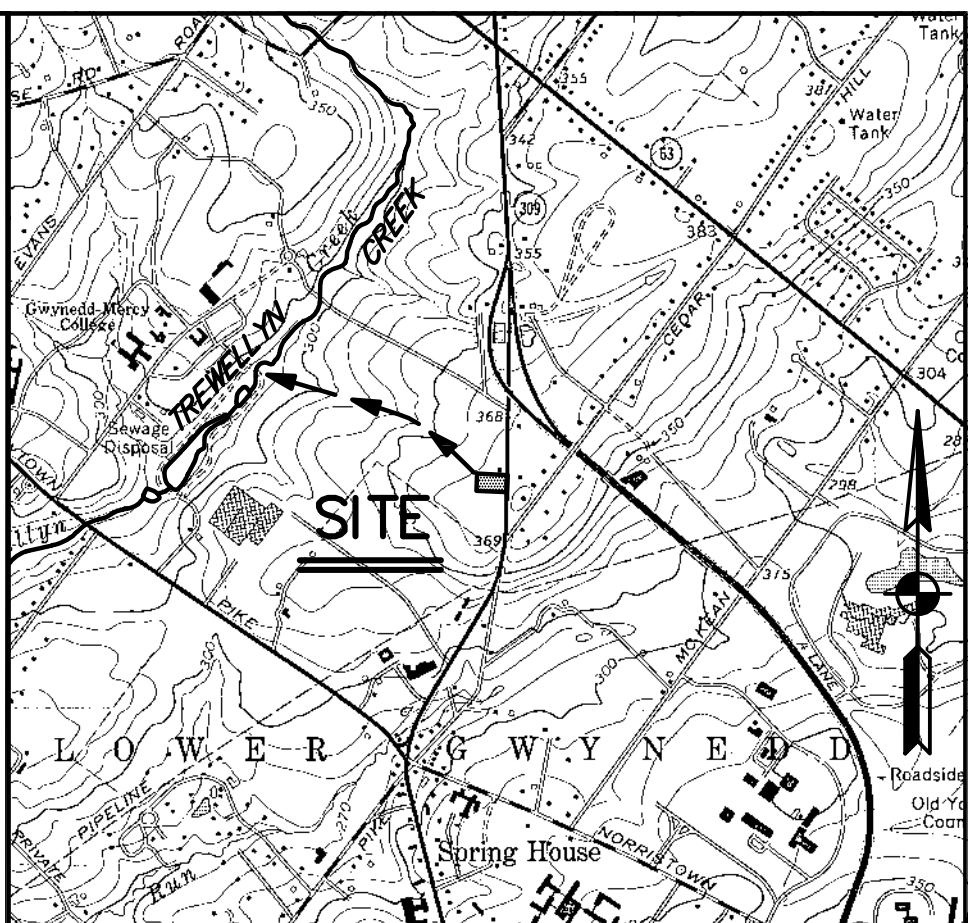
SCM EMERGENCY SPILLWAY CROSS-SECTION



BERM CONSTRUCTION DETAIL



U-DRAIN DETAIL



TREWELLYN CREEK IS THE RECEIVING WATERCOURSE IN THE WISSAHICKON WATERSHED. THE CHAPTER 93 CLASSIFICATION FOR TREWELLYN CREEK IS TSF, MF.

SCALE: 1"=2000'

UNIT NO.	BUILDING FOOTPRINT (S.F.)	DRIVE & PARKING (S.F.)	PATIO/DECK (S.F.)	PORCH & SERVICE WALK (S.F.)	8' WIDE TRAIL (S.F.)	ADDITIONAL (S.F.)	TOTAL DESIGN IMP. COV. (S.F.)
1	2,224	400	250	160	0	150	3,034
2	2,224	400	250	160	0	150	3,034
3	0	5,110	0	0	385	0	5,555
DRY SPACE WITHIN R/W	0	500	0	0	0	0	500
TOTAL TRAIL	6,472	7,270	750	370	385	450	15,897

* This chart is used to document the impervious surface used in the design calculations for stormwater management. Actual building footprint, drive and parking, patio/deck and porch & service walk submitted as part of the building permit plan may deviate from the chart. However, the total impervious coverage column should dictate the maximum impervious coverage allowed on the property without the need for additional stormwater management facilities. Any property owner seeking to increase impervious cover beyond that which is anticipated by this plan will be required to provide additional stormwater management and treatment.

STORMWATER STATEMENT

I, SUSAN A. RICE, P.E., ON THIS DATE HEREBY CERTIFY THAT THIS DRAINAGE PLAN MEETS ALL REQUIREMENTS OF THE LOWER GWYNEDD TOWNSHIP STORMWATER MANAGEMENT ORDINANCE.

DATE _____ SUSAN A. RICE, P.E.

SOILS DATA

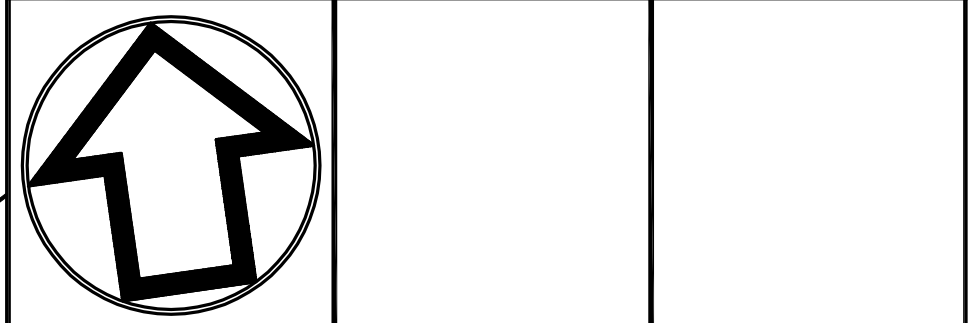
DATA OBTAINED FROM N.R.C.S. SOIL SURVEY.

Dsb - DOYLESTOWN SILT LOAM, 3 TO 8 PERCENT SLOPES

UusB - URBAN LAND-UDORTHENTS, SHALE AND SANDSTONE COMPLEX, 0 TO 8 PERCENT SLOPES

RECYCLING STATEMENT

INDIVIDUALS RESPONSIBLE FOR EARTH DISTURBANCE ACTIVITIES MUST ENSURE THAT PROPER MECHANISMS ARE IN PLACE TO CONTROL WASTE MATERIALS. CONSTRUCTION WASTES INCLUDE, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, ETC. THAT COULD ADVERSELY IMPACT WATER QUALITY. MEASURES SHOULD BE PLANNED AND IMPLEMENTED FOR HOUSEHOLD WASTE MANAGEMENT, AND LITTER CONTROL, WHEREVER POSSIBLE, RECYCLING OF EXCESS MATERIALS IS PREFERRED, RATHER THAN DISPOSAL.



GRAPHIC SCALE

5	PER VARIOUS REVIEWS	JUNE 19, 2026
4	PER EQUITABLE OWNER	MAY 15, 2026
3	REVISE WATER MAIN CONNECTION PER INWA COMMENT	NOV. 25, 2020
2	PER GILMORE & ASSOC. LTR (5/22/20) & MCMAHON LTR (4/30/20)	JUNE 24, 2020
1	PER VARIOUS REVIEWS	MAR. 12, 2020
No.	REVISIONS	DATE
	PLAN ORIGINATOR DATE	OCT. 1, 2019

PCSM PLAN
AS PART OF
SPRING HOUSE COURT
PREPARED FOR
**HALLMARK HOMES –
SPRING HOUSE COURT LLC**
SITE SITUATE IN
LOWER GWYNEDD TOWNSHIP
MONTGOMERY COUNTY, PENNSYLVANIA

S T A
Engineering, Inc.

Civil Engineers • Land Surveyors
2499 KNIGHT ROAD, PENNSBURG, PA 18073
PH: (215) 679-0200; www.stotac.com

PLAN SCALE	DRAFTED BY	PROJECT MANAGER	PLAN SHEET NUMBER
HORIZONTAL:	J.A.C.	S.A.R.	
1"=20'	PROJECT NUMBER	DRAWING FILE NUMBER	7 OF 13
	6646	6646PCSM	

Madison Outdoor Post Light 1-Light | Clear Beveled Glass

SPECIFICATIONS

Certifications/Qualifications	
ADA Compliant	No
Prop65	No
Dark Sky Compliant	No
Location Rating	Wet
	kichler.com/warranty

Dimensions	
Height	21.75"
Width	5.5"
Weight	5.1 LBS

Electrical	
Input Voltage	120 V

Light Source	
Light Source	Bulb
Lamp Included	Not Included
# of Bulbs/LED Modules	1
Max Or Nominal Watt	150 W
Lamp Type	A19
Socket Type	E26 (Medium)
Dimmable	No

Mounting/Installation	
Interior/Exterior	Exterior Product
Mounting Style	POST MOUNT
Modular	No

FIXTURE ATTRIBUTES

Housing/Glass	
Primary Material	Aluminum
Shade Included	No

Product/Ordering Information	
Sku	9956TZ
Finish	Tannery Bronze
UPC	783527135549

Finishes

- Black
Tannery Bronze



ALSO IN THIS FAMILY



Accessory Post

SPECIFICATIONS

Certifications/Qualifications	
ADA Compliant	No
Prop65	No
Dark Sky Compliant	No
	kichler.com/warranty

Dimensions	
Height	84"
Width	3"
Weight	3.65 LBS

Electrical	
Input Voltage	120 V

Light Source	
Dimmable	No

Mounting/Installation	
Interior/Exterior	Exterior Product
Modular	No

FIXTURE ATTRIBUTES

Housing/Glass	
Primary Material	Aluminum
Shade Included	No

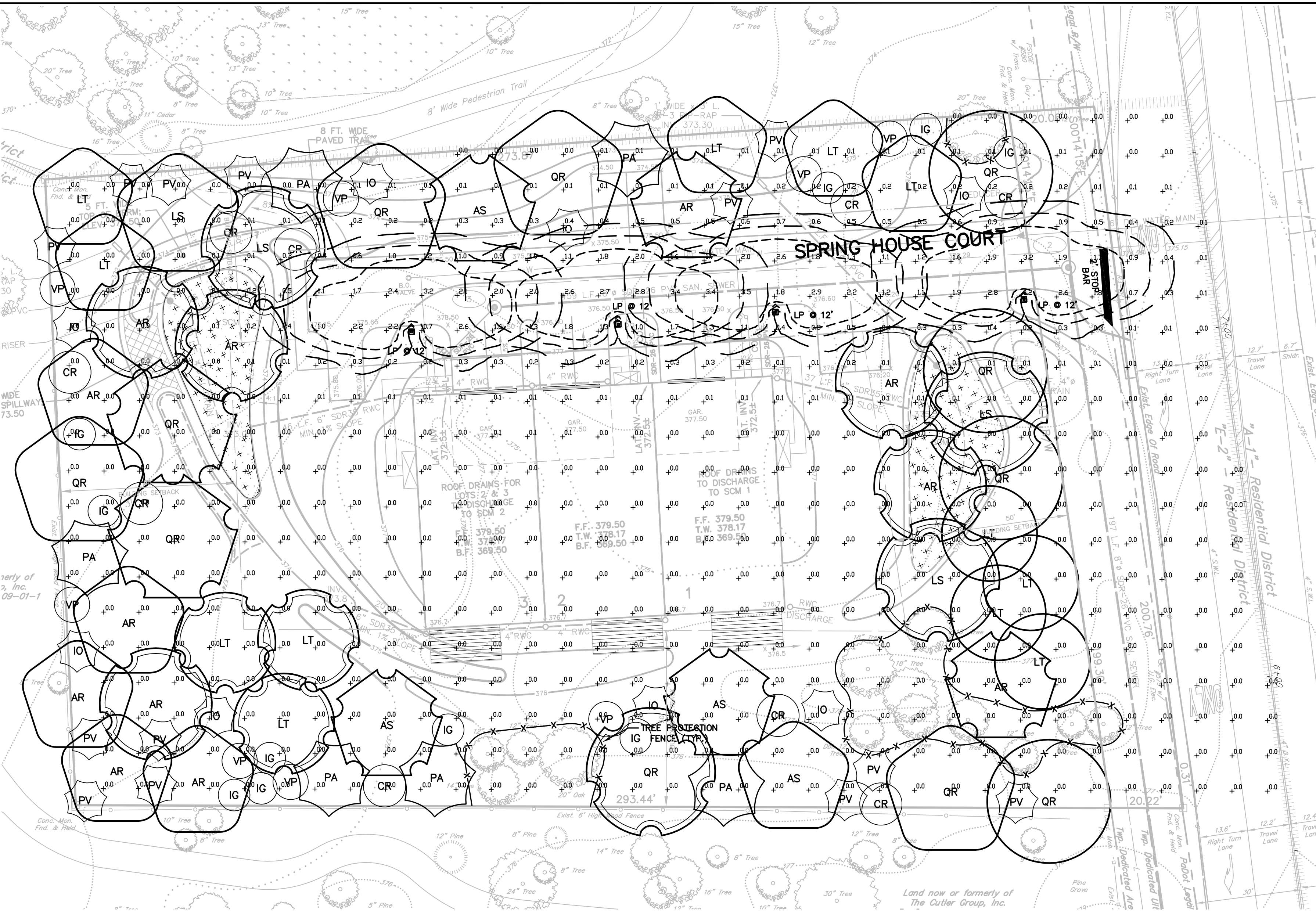
Product/Ordering Information	
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Finish	Black
UPC	783527300094

Finishes

- Architectural Bronze
Black



ALSO IN THIS FAMILY

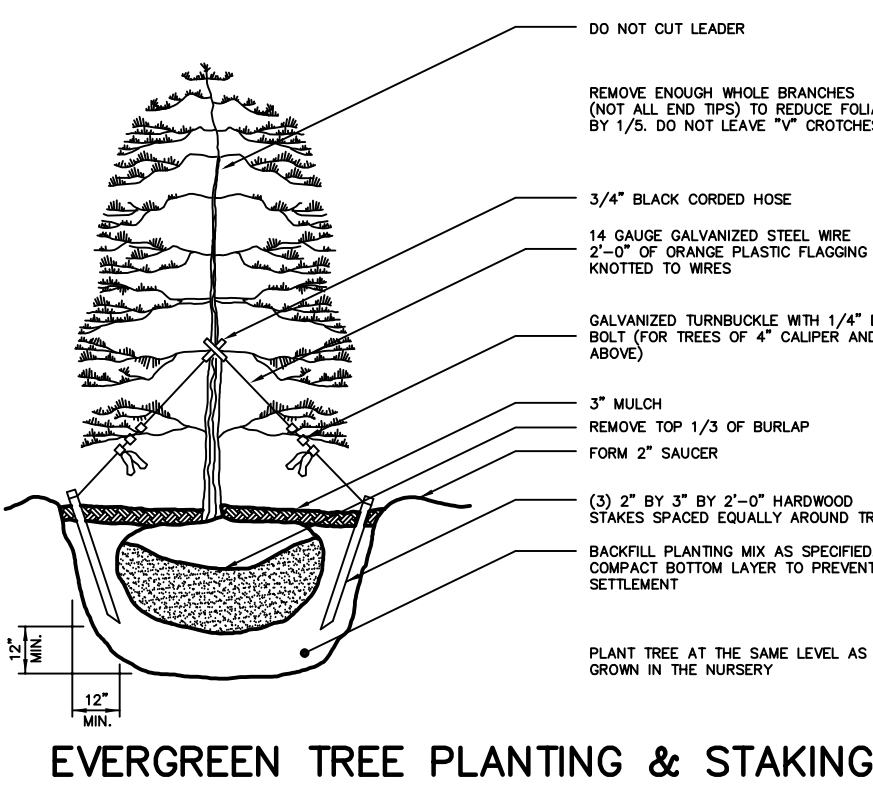


Schedule

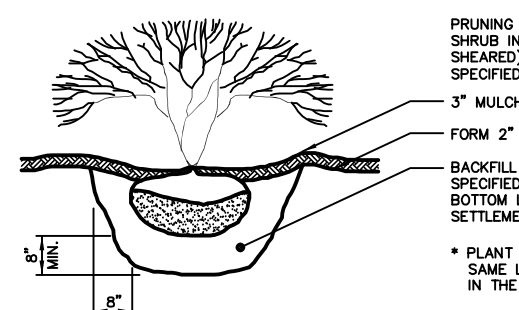
Symbol	Label	QTY	POLE HEIGHT
⊕	LP	4	12 FT.

Statistics

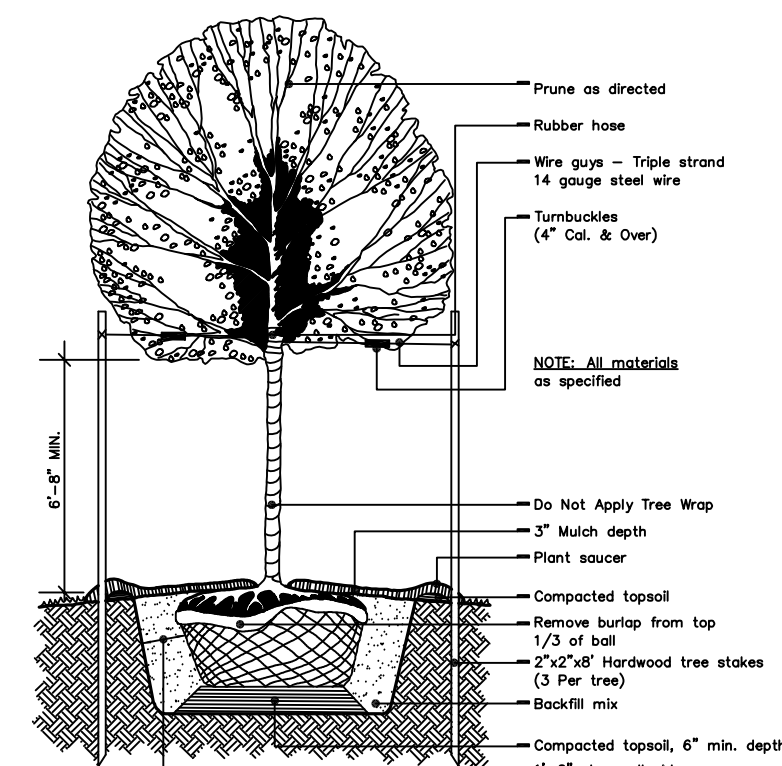
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Site	⊕	0.2 fc	3.5 fc	0.0 fc	N/A	N/A



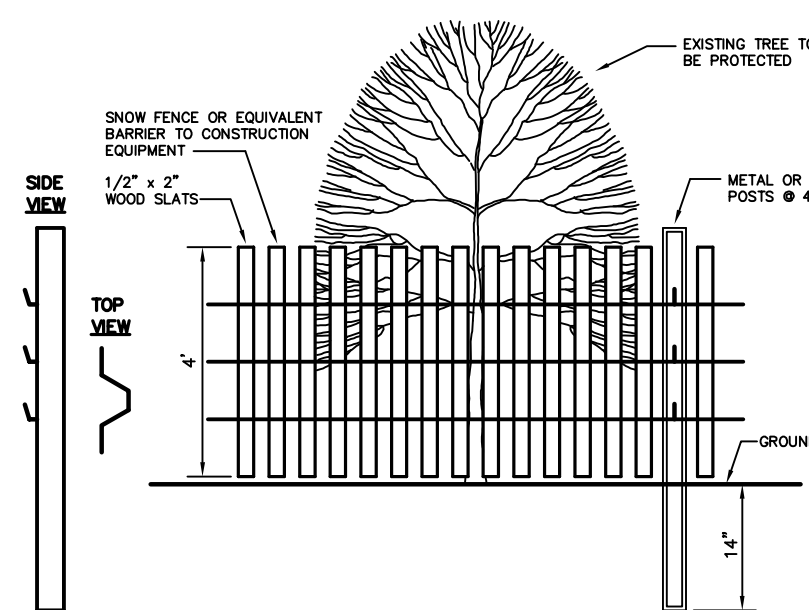
EVERGREEN TREE PLANTING & STAKING



SHRUB PLANTING



DECIDUOUS TREE PLANTING & STAKING



TREE PROTECTION FENCE DETAIL

REQUIREMENTS / SYMBOLS

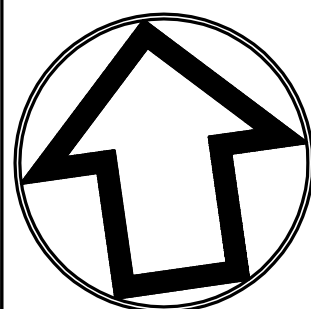
- 1230.42(1) STREET TREES
REQUIRED: 2 SHADE TREES PER 40 LIN. FT. STREET FRONTAGE
200 LINEAR FEET / 40 = 5 TREES = 10
2 EXISTING TREES: 8 TREES TOTAL
- 11230.41(1) REPLACEMENT TREES
REQUIRED: 2" CALIPER REPLACEMENT PER 2 INCH CALIPER OF TREES REMOVED
(1) 24" AND (1) 12" TREE REMOVED = 36" TOTAL TREE CALIPER REMOVED
REPLACEMENT TREES ARE 3" CALIPER = 12 REPLACEMENT TREES
- 1230.42(4)(1) BUFFER PLANTING
REQUIRED: 1 TREE, 1 EVERGREEN, 1 SHRUB PER 30 FEET OF PROPERTY
SOUTH 314' = 11 EACH, 8 EXISTING TREES: 3 TREES, 11 EVERGREENS, 11 SHRUBS
WEST 178' = 6 EACH, 8 EXISTING TREES: 6 TREES, 6 EVERGREENS, 6 SHRUBS
NORTH 298' = 10 EACH, 5 EXISTING TREES: 7 TREES, 10 EVERGREENS, 10 SHRUBS
- 1230.42(4)(2) INTERIOR LANDSCAPING
REQUIRED: 2 SHADE TREES PER UNIT = 6

LEGEND

- BMP FLOOR MIX:
ERNMX-180 (OR APPROVED EQUAL)
- AMENDED SOILS
- TREE PROTECTION FENCE
- LAMP POST

PLANT SCHEDULE

KEY	STREET	REPLACEMENT (QTY)	USE/QUANTITY				TOTAL PLANTS	1230.42 REQUIRED PLANTINGS SHADE TREES CALIPER PER 1230.49 A. 5" CALIPER REPLACEMENT TREES
			SOUTH	WEST	NORTH	INTERIOR		
AR		5	1	4		1	11	ACER RUBRUM RED MAPLE
AS			1			3	4	ACER SACCHARUM SUGAR MAPLE
LS		3					1	LIQIDAMBAR STYRACIFILIA SWEETGUM
LT		4	3		1	4	12	LIRIODENDRON TULIPIFERA TULIPTREE
QR		4	1	1	1	2	2	QUERCUS RUBRA RED OAK
		8	12	3	6	7	6	TOTALS PER USE
EVERGREENS								
								4' HEIGHT PER 1230.49 C.
IO			3	2	3		8	ILEX OPACA AMERICAN HOLLY
PA			3	1	2		6	PICEA ABIES NORWAY SPRUCE
PV			5	3	5		13	PINUS VIRGINIANA VIRGINIA PINE
			11	6	10		27	TOTALS PER USE
SHRUBS								
								3' HEIGHT PER 1230.49 F.
CR			3	2	4		9	CORNUS RACEMOSA GRAY DOGWOOD
IG			5	2	3		10	ILEX ALABRA INKBERRY
VP			3	2	3		8	VIBURNUM PRUNIFOLIUM BLACKHAW VIBURNUM
								8 TOTALS PER USE
								6 TOTAL ADAPTED PLANTS
								96 TOTAL NATIVE PLANTS
								94% NATIVE PLANTS 1230.43(b)

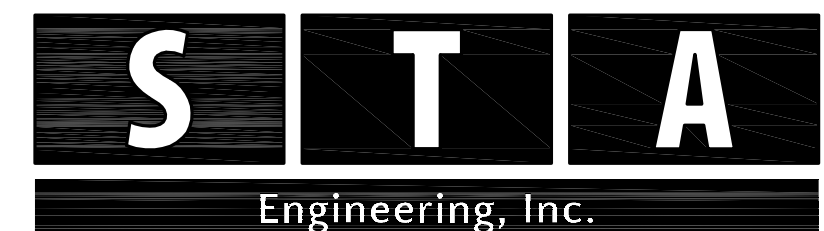


GRAPHIC SCALE

5	PER VARIOUS REVIEWS	JUNE 19, 2026
4	PER EQUITABLE OWNER	MAY 15, 2026
3	REVISE WATER MAIN CONNECTION PER NWMA COMMENT	NOV. 25, 2020
2	PER GILMORE & ASSOC. LTR (5/22/20) & MCMAHON LTR (4/30/20)	JUNE 24, 2020
1	PER VARIOUS REVIEWS	MAR. 12, 2020

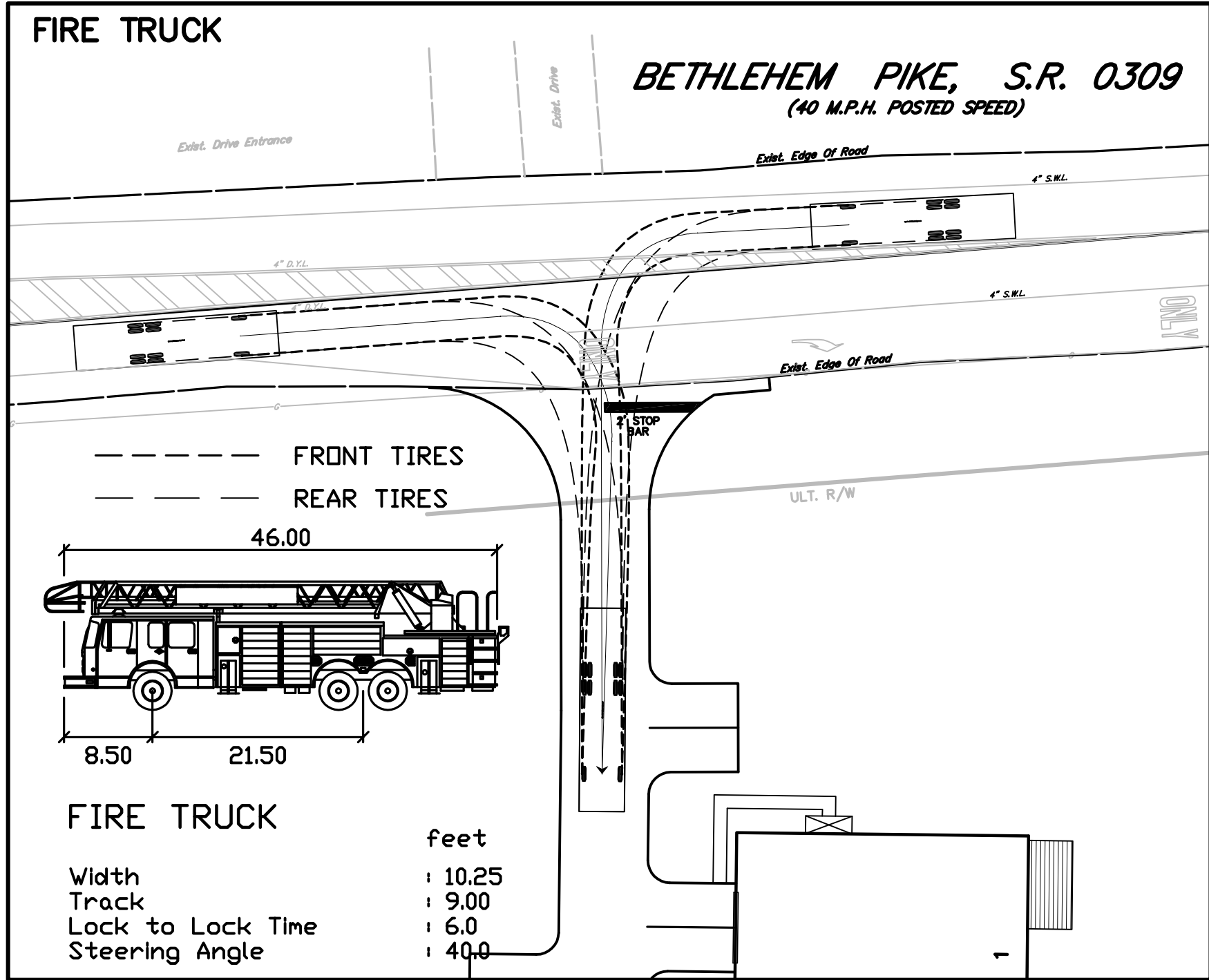
LANDSCAPE PLAN

AS PART OF
SPRING HOUSE COURT
PREPARED FOR
**HALLMARK HOMES –
SPRING HOUSE COURT LLC**
SITE SITUATE IN
LOWER GWYNEDD TOWNSHIP
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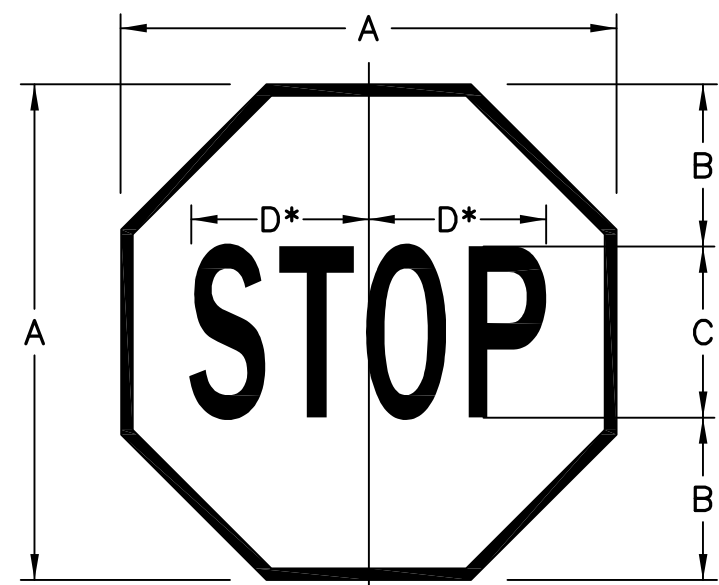
PLAN SCALE HORIZONTAL:	DRAFTED BY J.A.C.	PROJECT MANAGER S.A.R.	PLAN SHEET NUMBER
1"=20'	PROJECT NUMBER 6646	DRAWING FILE NUMBER 6646LA	8 OF 13



SIGN TABULATION — BETHLEHEM PIKE, S.R. 0309									
PLAN SYMBOL	OWNER	SERIES	SIZE	DESCRIPTION	STATION	STATE ROUTE	SEGMENT	OFFSET	ACTION
①	M	RJ-7R	30"x30"	RIGHT LANE MUST TURN RIGHT	7+11 LT	0309	0180	687	RELOCATE
②	P	R1-1	24"x24"	STOP SIGN	7+08 LT	0309	0180	690	NEW

SIGN LEGEND

- Ⓟ EXISTING SIGN TO REMAIN
Ⓛ EXISTING SIGN TO BE REMOVED
Ⓢ EXISTING SIGN TO BE RELOCATED
Ⓡ PROPOSED SIGN



SIGN SIZE A x A	DIMENSIONS — IN				BOR- DER	BLANK STD.
	B	C	D	D*		
24" x 24"	8	8C	10	0.6	B1-24	

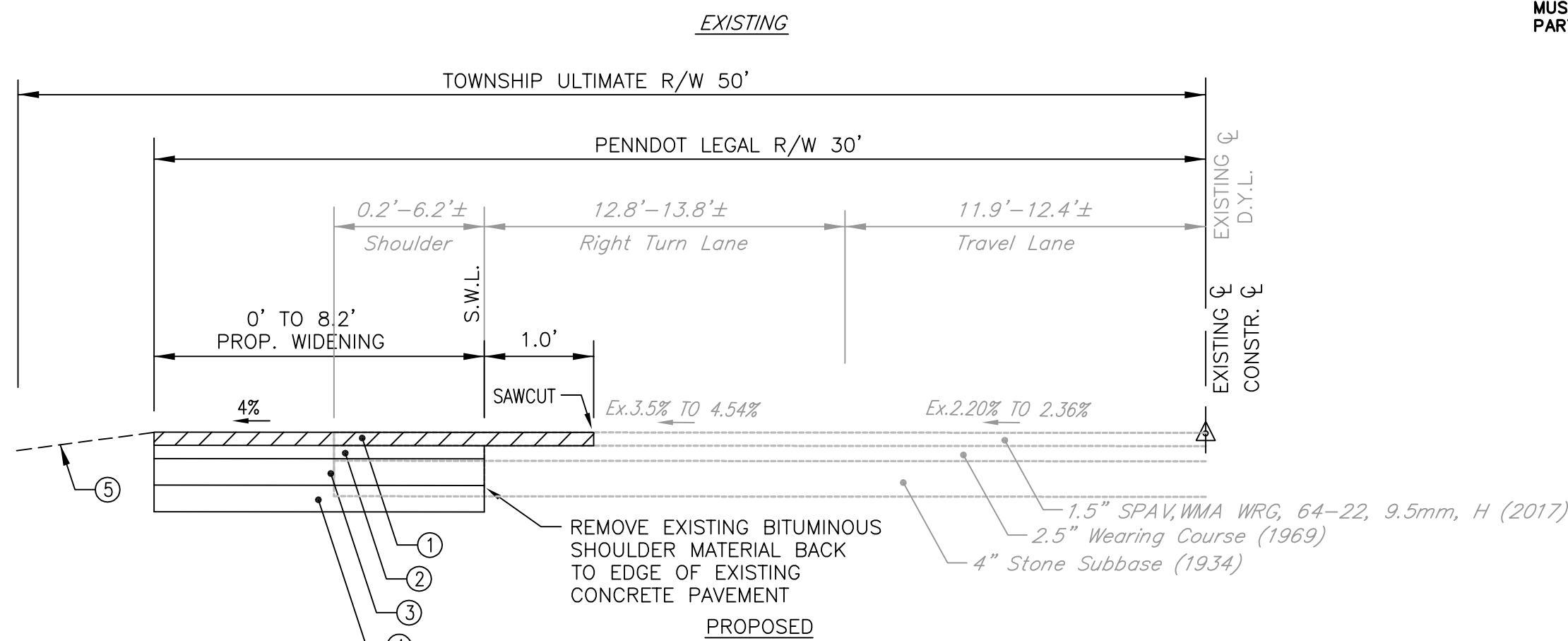
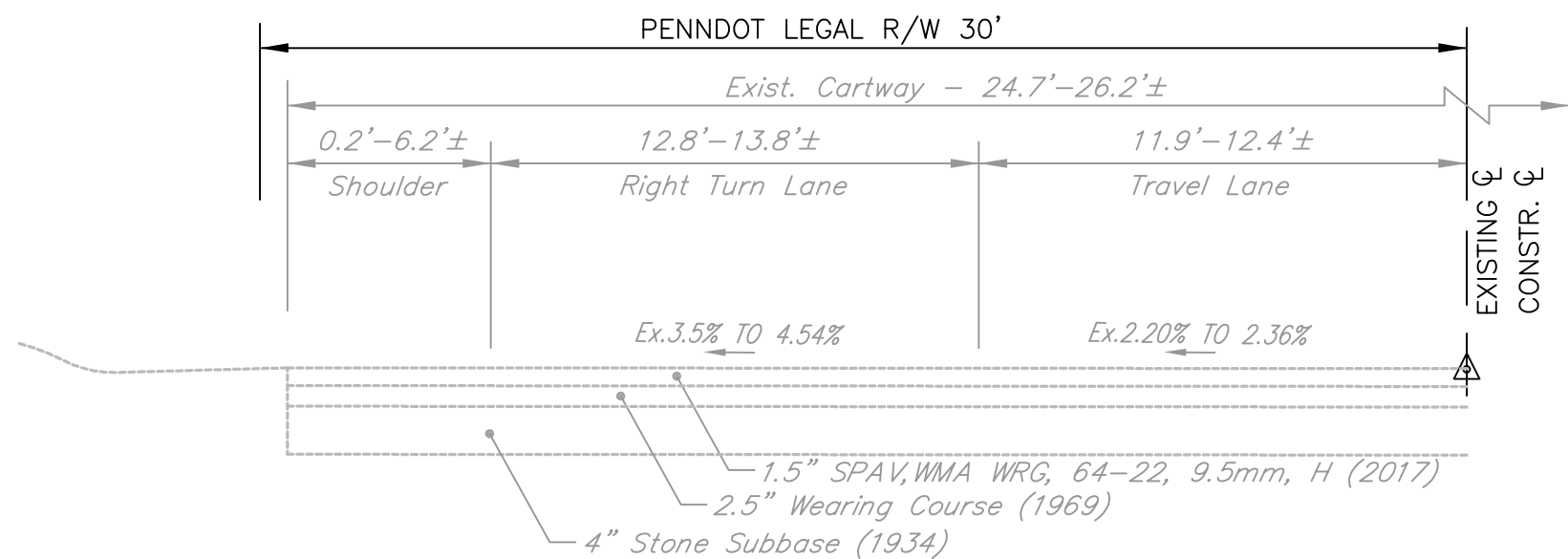
* REDUCE SPACING 40%

R1-1

CONSTRUCTION NOTES

- THE EXISTING PAVEMENT SECTION FOR S.R. 0309 WAS DETERMINED FROM PENNDOT PAVEMENT HISTORY RMS DATA.
- THE PROPOSED PAVEMENT SECTION MUST BE AS INDICATED ON THE PLAN, OR MATCH THE EXISTING AS FOUND IN THE FIELD, WHICHEVER IS GREATER. THE PROPOSED PAVEMENT SECTION IS TO BE USED WITH THE PENNDOT LEGAL RIGHT-OF-WAY.
- SAWCUT ALONG THE EXISTING WHITE LINE AND INSTALL THE FULL DEPTH PAVEMENT SECTIONS, UNLESS OTHERWISE SHOWN ON THE CROSS-SECTIONS.
- SAWLINE LOCATIONS MAY BE ADJUSTED IN THE FIELD AS NECESSARY BY A PENNDOT FIELD REPRESENTATIVE.
- NO UNSUITABLE MATERIAL IS TO BE USED IN ANY PORTION OF THE ROADWAY CONSTRUCTION. REMOVE ANY SUBGRADE THAT CANNOT BE PROPERLY COMPACTED AND TREAT AS UNSUITABLE MATERIAL. UNDERCUTTING AND/OR STABILIZATION MAY BE REQUIRED. THE SUBGRADE MUST BE APPROVED BY A PENNDOT REPRESENTATIVE PRIOR TO REPLACEMENT OF THE SUBBASE.
- SUPERPAVE WEARING LEVELING COURSE WILL BE PLACED IN MAXIMUM LIFTS OF 2.5 INCHES THICK.
- ALL LONGITUDINAL JOINTS WILL BE SEALED WITH PG 64-22.

- ① SUPERPAVE ASPHALT MIXTURE DESIGN, WMA WEARING COURSE, PG 64-22, 0.3 TO 3 MILLION DESIGN ESALS, 9.5 MM MIXTURE, 1.5" DEPTH, SRL-H
② SUPERPAVE ASPHALT MIXTURE DESIGN, WMA BINDER COURSE, PG 64-22, 0.3 TO 3 MILLION DESIGN ESALS, 19.0 MM MIXTURE, 2.5" DEPTH
③ SUPERPAVE ASPHALT MIXTURE DESIGN, WMA BASE COURSE, PG 64-22, 0.3 TO 3 MILLION DESIGN ESALS, 25.0 MM MIXTURE, 6" DEPTH
④ SUBBASE, 8" DEPTH (NO. 2A)
⑤ TOP SOIL, SEEDING AND MULCH. 4:1 MAX. SLOPE.



BETHLEHEM PIKE (S.R. 0309)

NOT TO SCALE
STA. 6+92 TO STA. 7+61

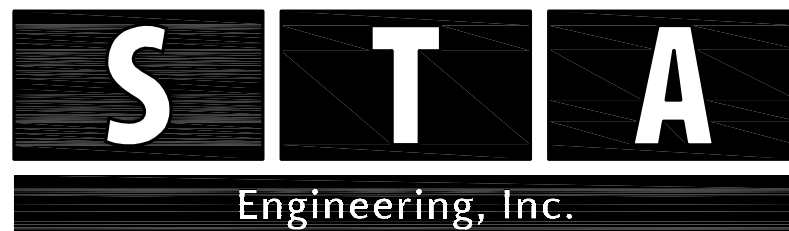
PADOT NOTES

- ALL WORK IN PENNDOT RIGHT-OF-WAY IS TO BE BUILT IN ACCORDANCE WITH:
 - PENNDOT PUBLICATION 408 SPECIFICATIONS
 - PENNDOT PUBLICATION 34, 35, 41, AND 42
 - PENNDOT PUBLICATION 72M
 - PENNDOT PUBLICATIONS 148 AND 149
 - PENNDOT PUBLICATION 282
 - PENNDOT PUBLICATION 213 (67 PA CODE, CHAPTER 212)
 - PENNDOT PUBLICATION 70M
 - PENNDOT PUBLICATION 111
 - PENNDOT PUBLICATION 13M
 - PENNDOT PUBLICATION 236
 - PENNSYLVANIA CODE TITLE 67, CHAPTERS 441 AND 459
 - MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) — LATEST PENNDOT ADOPTED EDITION
- THIS PERMIT MAY BE RESTRICTED ON WORKING HOURS AND TIMES FOR HOLIDAYS, WEEKENDS, AND SPECIAL OR UNFORESEEN EVENTS AND WILL REQUIRE APPROVAL FROM THE DISTRICT TRAFFIC ENGINEER PRIOR TO WORKING DURING THESE PERIODS. REFER TO MPT PLAN FOR RESTRICTIONS.
- FOR PERMITS REQUIRING A STATE INSPECTOR, FOLLOWING THE PERMITTEE'S REQUEST TO BEGIN CONSTRUCTION, ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE COMPLETED WITHOUT TIME INTERRUPTIONS.
- WHERE ROADWAY IMPROVEMENTS OCCUR IN FRONT OF ANOTHER PERSON OR PERSON'S PROPERTY/FRONTAGE, THE PERMITTEE WILL BE REQUIRED TO PROVIDE EVIDENCE OF THEIR BEING NOTIFIED OF THE PROPOSED WORK.
- MATERIAL CERTIFICATIONS MUST BE PROVIDED, BY AN APPROVED MANUFACTURER LISTED IN THE DEPARTMENT'S PUBLICATION 35 BULLETIN 15, FOR ALL MATERIALS AND STRUCTURES WITHIN PENNDOT R/W.
- FINAL APPROVAL OF THE PROPOSED SAWCUT LOCATIONS WILL BE AT THE DISCRETION OF THE INSPECTOR-IN-CHARGE AND WILL BE CONFIRMED AT THE PRE-CONSTRUCTION MEETING. IF THE SAWCUT MUST BE LOCATED WITHIN A TRAVEL LANE, IT WILL BE NECESSARY TO MILL AND OVERLAY THE TRAVEL LANE TO PREVENT A JOINT IN THE WHEEL PATH.
- MODIFICATIONS TO EXISTING DRAINAGE STRUCTURES MAY RESULT IN THE NEED TO REPLACE THE STRUCTURE. REPLACEMENT WILL BE AT THE DISCRETION OF THE INSPECTOR IN CHARGE.
- CONTRACTOR WILL NOTIFY THE PENNDOT PRESS OFFICE AT 610-205-6800 A MINIMUM OF TWO WEEKS PRIOR TO RESTRICTING OR CLOSING A TRAVEL LANE.
- IF THE PROPOSED IMPROVEMENTS REQUIRE THE RELOCATION OF PennDOT FIBER OPTIC CABLE(S), THE PERMITTEE IS RESPONSIBLE FOR THE FULL EXPENSE OF RELOCATING THESE FACILITIES. ANY FIBER OPTIC CABLE THAT REQUIRES RELOCATION MUST BE MOVED BY A CONTRACTOR CERTIFIED BY PennDOT TO PERFORM THIS TYPE OF WORK. CONTRACTOR MUST CONTACT PENNDOT AT 610-205-6934 TO VERIFY LOCATION OF FIBER OPTIC CABLE.
- SURVEY AND RECORD THE LOCATION OF EVERY SIGN WITHIN LIMITS OF WORK PRIOR TO REMOVING OR RELOCATING ANY SIGN.
- A COPY OF THE MOST RECENT PENNDOT RC DETAILS WILL BE PROVIDED TO THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- PA ONE CALL: ATTENTION ALL CONTRACTORS: LOCATIONS OF ALL EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM UTILITY COMPANY RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF TYPE, SIZE, DEPTH OR HORIZONTAL LOCATION OF UNDER-GROUND FACILITIES OR STRUCTURES CANNOT BE GUARANTEED. PURSUANT TO REQUIREMENTS OF PENNSYLVANIA LEGISLATIVE ACT NUMBER 287 OF 1974, AS AMENDED, CONTRACTORS MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES PRIOR TO START OF WORK.
- THE EXISTING SPEED LIMIT ON S.R. 0309 IS 40 M.P.H. THE RIGHT-OF-WAY IS FREE ACCESS.
- THE DRIVEWAY HAS BEEN DESIGNED (AND WILL BE CONSTRUCTED AND MAINTAINED) CONSISTENT WITH TITLE 67, CHAPTER 441 REGULATIONS.
- CONTACT PENNSYLVANIA ONE-CALL (1-800-242-1776) THREE WORKING DAYS BEFORE EXCAVATION OR DEMOLITION WORK.
- THE PERMITTEE SHALL ENSURE THAT THE SIGHT DISTANCE AT THE DRIVEWAYS SERVICING OTHER PROPERTIES OR AT OTHER INTERSECTIONS IS NOT REDUCED [UNLESS EXISTING AND PROPOSED VALUES EXCEEDED THE DESIRABLE VALUES SPECIFIED IN THE PENNSYLVANIA CODE, TITLE 67, TRANSPORTATION, CHAPTER 441.b.h.1] AS A RESULT OF THE WORK PERFORMED IN ACCORDANCE WITH THE STATE HIGHWAY OCCUPANCY PERMIT. ALL SIGHT DISTANCE OBSTRUCTIONS (INCLUDING BUT NOT LIMITED TO EMBANKMENTS AND VEGETATION) SHALL BE REMOVED BY THE PERMITTEE TO PROVIDE A MINIMUM OF 540 FEET OF SIGHT DISTANCE TO THE LEFT AND 460 FEET OF SIGHT DISTANCE TO THE RIGHT FOR A DRIVER EXITING THE PROPOSED INTERSECTION ONTO ALLENTOWN ROAD. THE DRIVER MUST BE CONSIDERED TO BE POSITIONED TEN (10) FEET FROM THE NEAR EDGE OF THE CLOSEST HIGHWAY THROUGH TRAVEL LANE (FROM THE CURBLINE IF CURBING IS PRESENT AT AN EYE HEIGHT OF THREE FEET SIX INCHES (3'-6") ABOVE THE PAVEMENT SURFACE. THE POINT SIGHTED BY THE EXITING DRIVER SHALL BE THREE FEET SIX INCHES (3'-6") ABOVE THE PAVEMENT SURFACE LOCATED IN THE CENTER OF THE CLOSEST HIGHWAY TRAVEL LANE DESIGNATED FOR USE BY APPROACHING TRAFFIC. THIS SIGHT DISTANCE SHALL BE MAINTAINED BY THE PERMITTEE.
- A SEPARATE HIGHWAY OCCUPANCY PERMIT APPLICATION MUST BE SUBMITTED TO THE DEPARTMENT FOR THE RELOCATION OF ANY UTILITIES. THE APPLICANT IS RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY FACILITY AND THE DISTRICT UTILITY UNIT. THE RESPONSIBILITY FOR ENSURING THAT ALL UTILITY POLES WITHIN THE PROPOSED PAVING ARE RELOCATED OUTSIDE OF PAVED AREAS AND SHOULDERS SHALL BE THAT OF THE PERMITTEE. THE UTILITY POLES MUST BE RELOCATED BEFORE THE START OF ANY PAVING OPERATIONS. IF POSSIBLE, THE UTILITY POLES WITHIN THE LIMITS OF WORK SHOULD BE RELOCATED OUTSIDE THE CLEAR ZONE FOR STATE HIGHWAY TRAFFIC. OTHERWISE, THEY MUST BE RELOCATED TO THE EDGE OF THE LEGAL RIGHT-OF-WAY. UTILITY RELOCATIONS MUST BE IN ACCORDANCE WITH P.A.D.O.T. DESIGN MANUAL PART 5. ALL UTILITY RELOCATION PERMITS TAKE PRECEDENCE OVER UTILITY RELOCATION POSITIONS SHOWN ON THESE H.O.P. PLANS.
- PADOT LEGAL RIGHT OF WAY INFORMATION FOR BETHLEHEM PIKE (S.R. 0309):
 - 60 FEET. DRAWINGS FOR CONSTRUCTION OF LEG. ROUTE 153 SECTION 101 IN MONTGOMERY COUNTY, 11 SHEETS, APPROVED MARCH 12, 1984 BY PENNDOT.
 - TO THE BEST OF OUR KNOWLEDGE, NO ADDITIONAL RECORDED PLANS ARE AVAILABLE.
- ACCESS TO ALL DRIVEWAYS MUST BE MAINTAINED AT ALL TIMES.
- ACCESS SIGNING AND PAVEMENT MARKINGS AUTHORIZED BY THE PERMIT MUST BE MAINTAINED BY THE PERMITTEE.
- ALL TRENCH OPERATIONS WITHIN THE LEGAL RIGHT-OF-WAY OF THE STATE HIGHWAY MUST BE CONDUCTED IN ACCORDANCE WITH OSHA'S EXCAVATION STANDARD 29 cfr PART 1926, SUBPART P.

PERMIT NO. 06102989
EPS NO. 206070

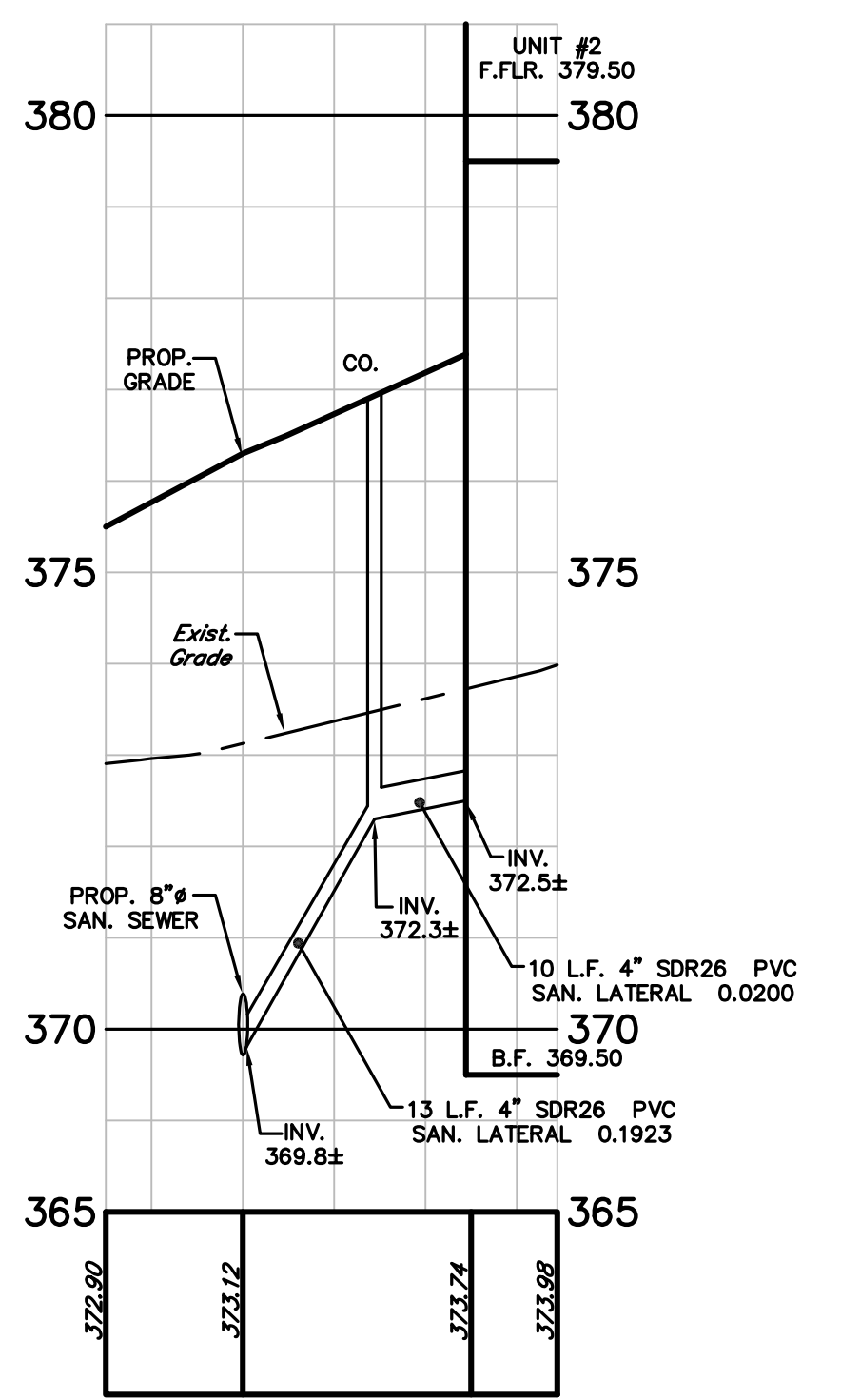
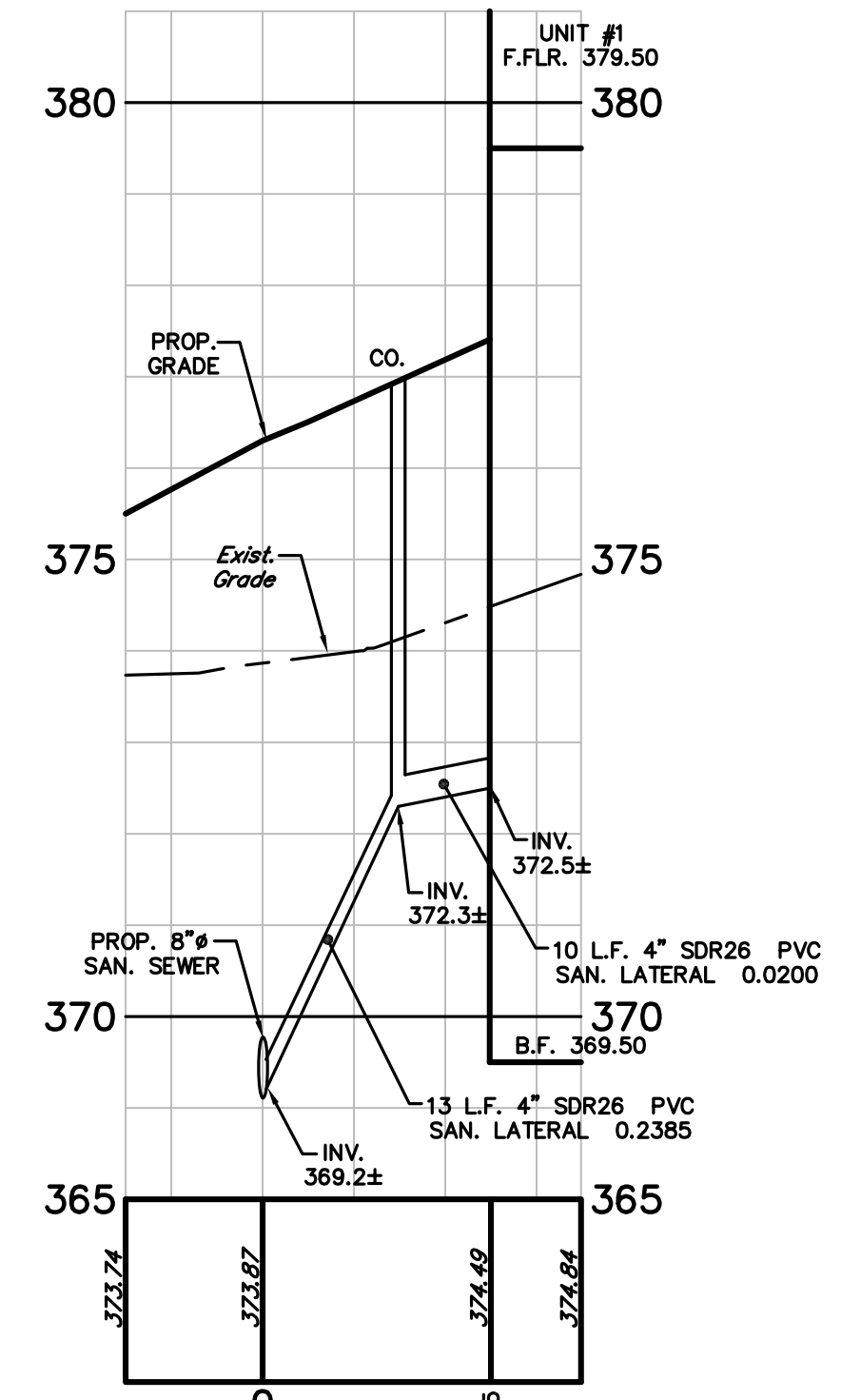
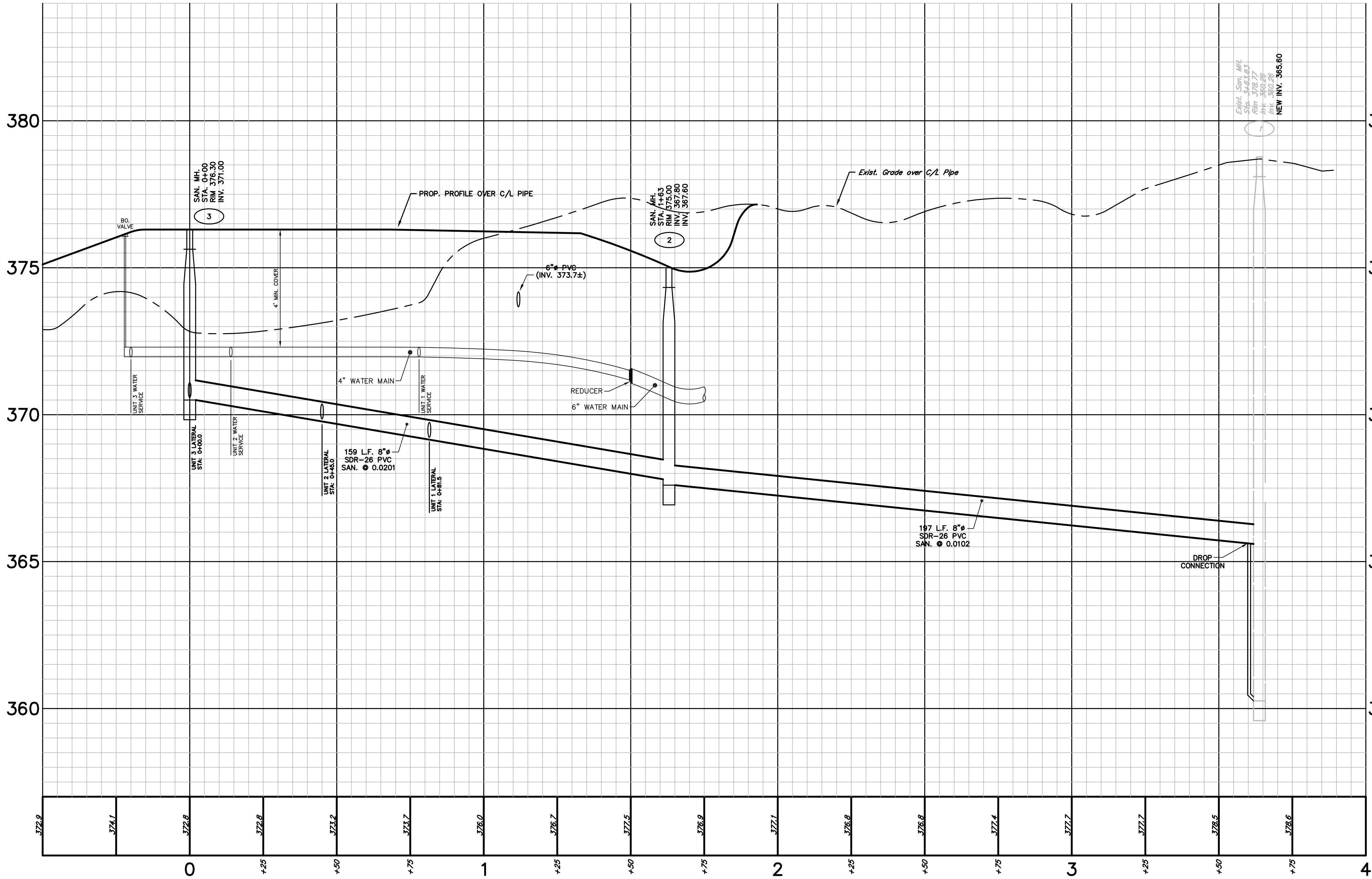
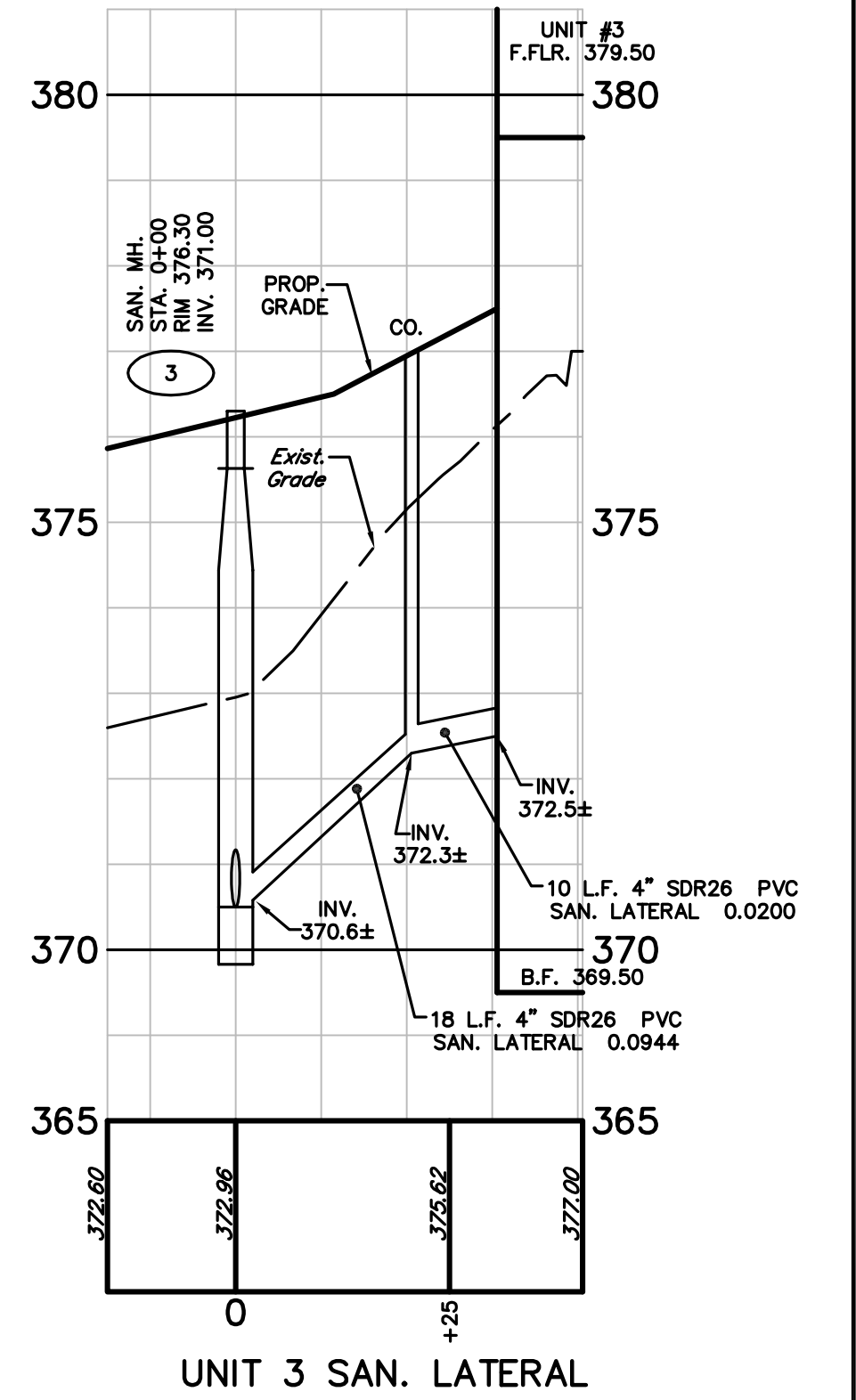
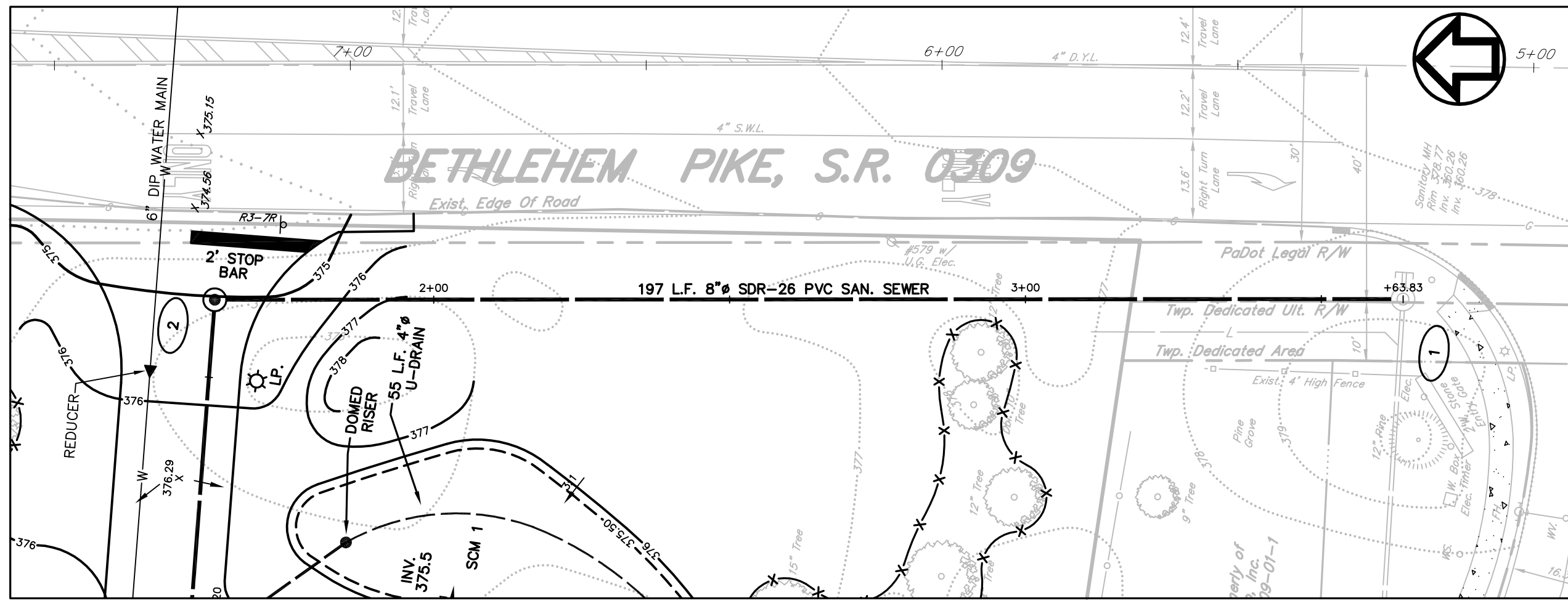
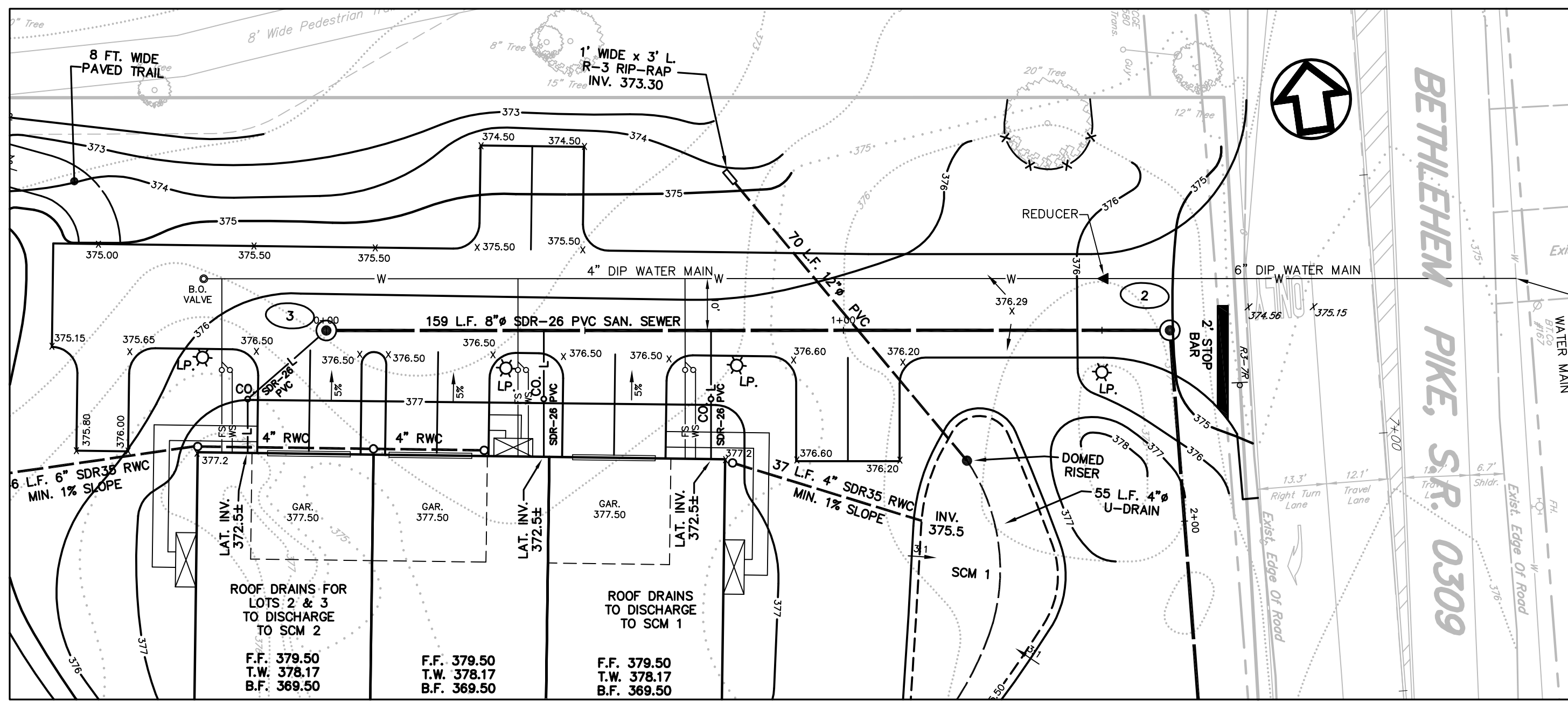
5	PER VARIOUS REVIEWS	JUNE 19, 2026
4	PER EQUITABLE OWNER	MAY 15, 2026
3	REVISE WATER MAIN CONNECTION PER NWWA COMMENT	NOV. 25, 2020
2	PER GILMORE & ASSOC. LTR (5/22/20) & MCMAHON LTR (4/30/20)	JUNE 24, 2020
1	PER VARIOUS REVIEWS	MAR. 12, 2020
No.	REVISIONS	DATE
	PLAN ORIGINATION DATE	OCT. 1, 2019

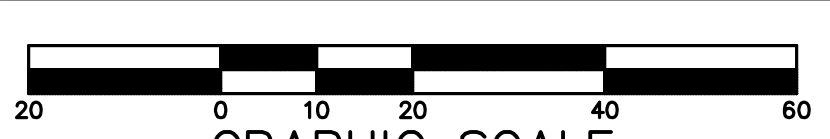
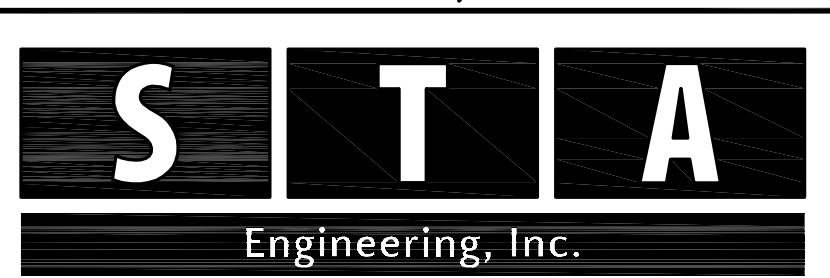
PENNDOT DETAIL SHEET
AS PART OF
SPRING HOUSE COURT
PREPARED FOR
**HALLMARK HOMES —
SPRING HOUSE COURT LLC**
SITE SITUATE IN
LOWER GWYNEDD TOWNSHIP
MONTGOMERY COUNTY, PENNSYLVANIA



Civil Engineers • Land Surveyors
2499 KNIGHT ROAD, PENNSBURG, PA 18073
PH: (215) 679-0200; www.stotac.com

PLAN SCALE HORIZONTAL:	DRAFTED BY J.A.C.	PROJECT MANAGER S.A.R.	PLAN SHEET NUMBER
N.T.S.	6646	6646P309	11 OF 13



			
GRAPHIC SCALE			
5	PER VARIOUS REVIEWS	DATE	JUNE 19, 2026
4	PER EQUITABLE OWNER	DATE	MAY 15, 2026
3	REVISE WATER MAIN CONNECTION PER NWMA COMMENT	DATE	NOV. 25, 2020
2	PER GILMORE & ASSOC. LTR (5/22/20) & MCMAHON LTR (4/30/20)	DATE	JUNE 24, 2020
1	PER VARIOUS REVIEWS	DATE	MAR. 12, 2020
No.	REVISIONS	DATE	
	PLAN ORIGINATION DATE	OCT. 1, 2019	
PLAN AND PROFILE OF SANITARY SEWER AS PART OF SPRING HOUSE COURT PREPARED FOR HALLMARK HOMES - SPRING HOUSE COURT LLC SITE SITUATE IN LOWER GWYNEDD TOWNSHIP MONTGOMERY COUNTY, PENNSYLVANIA			
			
Civil Engineers • Land Surveyors 2499 KNIGHT ROAD, PENNSBURG, PA 18073 PH: (215) 679-0200; www.stotac.com			
PLAN SCALE HORIZONTAL: 1" = 20' VERTICAL: 1" = 2'	DRAFTED BY J.A.C	PROJECT MANAGER S.A.R.	PLAN SHEET NUMBER 12 OF 13

MPT NOTES

1. THIS WORK CONSISTS OF THE MAINTENANCE AND PROTECTION OF TRAFFIC AND THE PROTECTION OF THE PUBLIC WHEN APPROACHING AND DEPARTING THE CONSTRUCTION AREA AND WITHIN THE LIMITS OF CONSTRUCTION.
2. FURNISH, ERECT, PLACE AND MAINTAIN TRAFFIC CONTROL SIGNS AND DEVICES. MAINTAIN TRAFFIC DURING HOURS OF CONSTRUCTION AND AT ALL OTHER TIMES CONSISTENT WITH THE METHODS INDICATED ON THESE DRAWINGS AND THE FOLLOWING:
 1. PENNDOT PUBLICATION 35;
 2. PENNDOT PUBLICATION 48;
 3. PENNDOT PUBLICATION 724;
 4. PENNDOT PUBLICATION 111;
 5. PENNDOT PUBLICATION 212;
 6. PENNDOT PUBLICATION 213;
 7. PENNDOT PUBLICATION 236;
 8. PENNDOT PUBLICATION 408; AND
 9. MUTCD, CURRENT EDITION.
3. REMOVE THESE DEVICES IMMEDIATELY UPON COMPLETION OF THE WORK. PENNDOT WILL REMOVE ANY TRAFFIC CONTROL DEVICES ERECTED BY DEPARTMENT FORCES.
4. PERMITTEE MUST ARRANGE FOR INSPECTION OF ALL TRAFFIC CONTROL DEVICES PRIOR TO START OF WORK.
5. COVER OR REMOVE ALL CONFLICTING SIGNS AND ERADICATE ALL CONFLICTING PAVEMENT MARKINGS.
6. MOUNT ALL LONG-TERM ADVANCE WARNING SIGNS ON TYPE III BARRICADES UNLESS OTHERWISE NOTED OR INSTRUCTED BY DISTRICT OFFICE.
7. ALL SIGNS AND DEVICES TO BE MAINTAINED IN NEW OR LIKE NEW CONDITION.
8. DRIVEWAYS WILL BE KEPT ACCESSIBLE AT ALL TIMES. LOCATE ALL SIGNS SO THAT SIGN DISTANCES WILL NOT BE OBSTRUCTED AT DRIVEWAYS AND LOCAL ROADS.
9. ALL CHANNELIZATION DEVICES, BARRICADES, AND SIGNS SHALL HAVE TYPE III OR BETTER PRISMATIC RETROREFLECTIVE SHEETING. SHEETING SHALL BE APPROVED AND LISTED IN PENNDOT PUBLICATION 35 (BULLETIN 15).
10. NO TRAFFIC RESTRICTIONS OR LANE CLOSURES ARE PERMITTED BETWEEN 6:00 AM AND 9:00 AM AND BETWEEN 3:00 PM AND 8:00 PM MONDAYS THROUGH FRIDAYS OR ON LEGAL HOLIDAYS AND WEEKENDS ASSOCIATED WITH LEGAL HOLIDAYS. ALL RESTRICTIONS AND CLOSURES ARE TO BE REMOVED BY NOON ON THE DAY PRIOR TO THE LEGAL HOLIDAY.
11. PERMITTEE SHALL NOTIFY EMERGENCY AUTHORITIES (E.G. POLICE, FIRE, MEDICAL), AFFECTED BUSINESSES, SCHOOL DISTRICT(S), THE GENERAL PUBLIC, THE DISTRICT PERMIT MANAGER AND THE DISTRICT APRAS COORDINATOR AT LEAST FOURTEEN DAYS PRIOR TO ANY SIGNIFICANT TRAFFIC IMPACTS (E.G. LATERAL WIDTH RESTRICTIONS LESS THAN 16 FEET, DETOURS).
12. MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE PATA DRAWINGS 101, 102, 107, AND 201 IN THE CURRENT PENNDOT PUBLICATION 213, "TEMPORARY TRAFFIC CONTROL GUIDELINES".
13. DROPOFFS CREATED BY CONSTRUCTION OPERATIONS SHALL BE TREATED CONSISTENT WITH PUBLICATION 408, SECTION 901.3(J).
14. REMOVE ALL SHORT-TERM WORK ZONE TRAFFIC CONTROL SIGNING UPON COMPLETION OF THAT DAY'S WORK PERIOD.
15. RESTRICTING TRAFFIC FLOW WITHIN THE WORK AREA SHALL BE MINIMIZED TO PREVENT TRAFFIC CONGESTION AND UNSAFE TRAFFIC CONDITIONS.
16. NOTIFY THE LOCAL MUNICIPALITY WHERE SIGNALIZED INTERSECTIONS FALL WITHIN THE WORK ZONE. DO NOT FLAG A SIGNALIZED INTERSECTION WITHOUT THE MUNICIPALITY PLACING THE SIGNAL ON FLASH.
17. MPT PATA DRAWING 102 MAY ONLY BE UTILIZED IF THERE IS ADEQUATE PAVEMENT WIDTH AND/OR SITE FRONTAGE AVAILABLE TO MAINTAIN THE MINIMUM TRAVEL LANE WIDTHS (10'/11'). USE OF MPT PATA DRAWING 102 IS AT THE DISCRETION OF A PENNDOT FIELD REPRESENTATIVE.
18. ALL DISTANCES MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
19. USE TYPE VII REFLECTIVE SHEETING MATERIAL FOR ALL LONG-TERM ADVANCE WARNING SIGNS. TYPE I SHEETING MAY BE USED ON "THIS ROADWAY TO BE UNDER CONSTRUCTION" SIGNS.
20. PROTECT ANY EXCAVATING OBSTRUCTIONS OR CONSTRUCTION WORK, SO AS NOT TO EXPOSE PEDESTRIANS TO HAZARDS.
21. THE CONTRACTOR MUST NOTIFY THE DISTRICT 6-0 PRESS OFFICE AT (610) 205-6800 TWO (2) WEEKS IN ADVANCE OF ANY LANE CLOSURES, RESTRICTIONS OR DETOURS.
22. BARRICADES, LIGHTING DEVICES, AND OTHER TRAFFIC CONTROL MEASURES SHALL BE PLACED IN ACCORDANCE WITH AND SHALL CONFORM TO PENNDOT SPECIFICATIONS PUBLICATION 408/2011, MUTCD STANDARDS, AND PENNDOT PUBLICATION 213, "TEMPORARY TRAFFIC TRAFFIC CONTROL GUIDELINES", DATED JUNE 2014 AND 67 PA CODE, CHAPTER 212, LAST REVISED FEBRUARY 2008, OR MOST RECENT EDITION.
23. ERADICATE EXISTING PAVEMENT MARKINGS AND TEMPORARILY COVER OR REMOVE ANY SIGNS (INCLUDING OVERHEAD SIGNS) THAT ARE IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL MEASURES. DO NOT ATTACH TAPE OR ADHESIVE TO THE FACE OF ANY SIGNS THAT ARE TEMPORARILY COVERED DURING CONSTRUCTION OPERATIONS. ENSURE DURING THE REMOVAL AND STORAGE OF ALL SIGNS THAT THE SHEETING FACE IS NOT DAMAGED OR SCRATCHED. REPLACE IN KIND ALL SIGNS AND/OR POSTS DAMAGED DURING REMOVAL, STORAGE OR REINSTALLATION.
24. ALL SIGNS ARE TO BE MOUNTED ON TYPE III BARRICADES UNLESS OTHERWISE NOTED.
25. TRAFFIC FLOW WITHIN THE WORK AREA MUST NOT BE STOPPED FOR GREATER THAN A 5 MINUTE PERIOD AT ANY ONE TIME.
26. THE PROPOSED SITE ACCESS AND ASSOCIATED AUXILIARY LANES MUST REMAIN CLOSED WITH "ROAD CLOSED" SIGNS ON TYPE III BARRICADES AND BARRELS UNTIL THE SITE ACCESS/AUXILIARY LANES ARE READY TO BE OPENED.
27. ALL WORKERS SHALL FOLLOW THE REGULATIONS SET FORTH IN TITLE 23 OF THE CODE OF FEDERAL REGULATIONS (CFR) PART 634, EFFECTIVE NOVEMBER 24, 2008 IN REGARD TO THE WORKER'S SAFETY APPAREL.
28. THE CONTRACTOR MUST NOTIFY THE DISTRICT 6-0 TRAFFIC MANAGEMENT CENTER (TMC) TWO (2) DAYS IN ADVANCE OF ANY PROPOSED LANE OR SHOULDER RESTRICTIONS OR ROAD CLOSURES AND FIFTEEN (15) MINUTES PRIOR TO THE START OF WORK.

PERMIT NO. 06102989
EPS NO. 206070

5	PER VARIOUS REVIEWS	JUNE 19, 2026
4	PER EQUITABLE OWNER	MAY 15, 2026
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1	PER VARIOUS REVIEWS	MAR. 12, 2020
No.	REVISIONS	DATE
	PLAN ORIGINATOR DATE	OCT. 1, 2019

MAINTENANCE AND PROTECTION OF TRAFFIC PLAN

AS PART OF

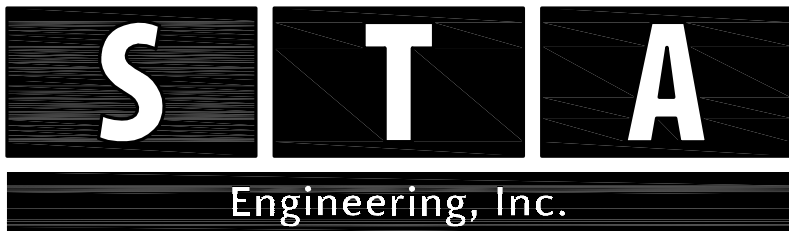
SPRING HOUSE COURT

PREPARED FOR

HALLMARK HOMES –
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SITE SITUATE IN

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PLAN SCALE HORIZONTAL:	DRAFTED BY J.A.C.	PROJECT MANAGER S.A.R.	PLAN SHEET NUMBER
N.T.S.	6646	6646DET	13 OF 13

PATA 101 (Old PATA 5) - Notes

1. The shadow vehicle and traffic control devices are not required if the work space is outside the highway right-of-way, behind barrier, more than 2' behind curb, or 15' or more from the edge of any roadway.
2. For operations of 60 minutes or less, all traffic control devices may be eliminated if a shadow vehicle is present.
3. For divided highways and one-way highways where it is physically possible, advance warning signs should also be placed on the left-hand side of the roadway.
4. When a shadow vehicle is not used, distance A is measured from the Road Work (W20-1) sign location to beginning of work space.

Signs



W20-1

Sign Spacing Chart

Condition	Distance				Speed MPH	Min. Channelizing Devices Per Taper Type (Length)				D Feet	E Feet	H Feet
	A Feet	B Feet	C Feet	F Feet		W Feet	L Feet	1/2L Feet	1/3L Feet			
Urban 35 MPH or less	100	100	100	100	25	10	105	55	35	6	6	6
Urban Greater than 35 MPH	350	350	350	350	30	10	150	75	50	6	6	6
	350	350	350	350	35	10	165	85	55	7	6	6
Rural	500	500	500	500	40	10	225	115	75	8	6	6
	500	500	500	500	45	10	245	125	85	8	6	6

When multiple distance plaques are used on advance warning signs, they shall all be of the same series type.
Example: either all "AHEAD" or "XXX FEET".

Taper Length Formulas

S	L
40 MPH or less	L = WS ² 60
45 MPH or more	L = WS ² 60

S = Regulatory Speed Limit
W = Width of Offset
L = Length

PATA 107 (Old PATA 10a) - Notes

1. Each flagger shall be clearly visible to traffic for a minimum distance of E and shall be in constant communication with all other flaggers.
2. For operations of 15 minutes or less:
 - a. The Road Work (W20-1), One Lane Road (W20-4), and Flagger Symbol (W20-7) signs are not required.
 - b. All channelizing devices may be eliminated if a shadow vehicle is present.
3. The buffer space shall be extended so that the two-way traffic taper is placed before a horizontal (or crest vertical) curve to provide adequate sight distance for the flagger and a queue of stopped vehicles.
4. When a shadow vehicle is not used, distance E is measured from end of taper to beginning of work space.

Signs



W20-1 W20-4 W20-7

Sign Spacing Chart

Condition	Distance				Speed MPH	Min. Channelizing Devices Per Taper Type (Length)				D Feet	E Feet	H Feet
	A Feet	B Feet	C Feet	F Feet		W Feet	L Feet	1/2L Feet	1/3L Feet			
Urban 35 MPH or less	100	100	100	100	25	10	105	55	35	6	6	6
Urban Greater than 35 MPH	350	350	350	350	30	10	150	75	50	6	6	6
	350	350	350	350	35	10	165	85	55	7	6	6
Rural	500	500	500	500	40	10	225	115	75	8	6	6
	500	500	500	500	45	10	245	125	85	8	6	6

When multiple distance plaques are used on advance warning signs, they shall all be of the same series type.
Example: either all "AHEAD" or "XXX FEET".

Taper Length Formulas

S	L
40 MPH or less	L = WS ² 60
45 MPH or more	L = WS ² 60

S = Regulatory Speed Limit
W = Width of Offset
L = Length

PATA 201 (Old PATA 24) - Notes

1. Traffic control devices are not required if the work space is outside the highway right-of-way, behind barrier, more than 2'-0" behind curb, or 15' or more from the edge of the roadway.
2. For divided highways and one-way highways where it is physically possible, advance warning signs should also be placed on the left-hand side of the roadway.
3. When a shadow vehicle is not used, distance A is measured from sign to beginning of work space.

Signs



W20-1 G20-2

Sign Spacing Chart

Condition	Distance				Speed MPH	Min. Channelizing Devices Per Taper Type (Length)				D Feet	E Feet	H Feet
	A Feet	B Feet	C Feet	F Feet		W Feet	L Feet	1/2L Feet	1/3L Feet			
Urban 35 MPH or less	100	100	100	100	25	10	105	55	35	6	6	6
Urban Greater than 35 MPH	350	350	350	350	30	10	150	75	50	6	6	6
	350	350	350	350	35	10	165	85	55	7	6	6
Rural	500	500	500	500	40	10	225	115	75	8	6	6
	500	500	500	500	45	10	245	125	85	8	6	6

When multiple distance plaques are used on advance warning signs, they shall all be of the same series type.
Example: either all "AHEAD" or "XXX FEET".

Taper Length Formulas

S	L
40 MPH or less	L = WS ² 60
45 MPH or more	L = WS ² 60

S = Regulatory Speed Limit
W = Width of Offset
L = Length

Note: Channelizing devices used in taper shall be equally spaced at 1/3 D Max.

PATA 102 (Old PATA 7) - Notes

1. If the work space is completely within a parking lane and parking is present, the taper or shadow vehicle is not required.
2. For operations of 15 minutes or less:
 - a. The Road Work (W20-1) sign is not required.
 - b. All channelizing devices may be eliminated if a shadow vehicle is present.
3. For divided highways and one-way highways where it is physically possible, advance warning signs should also be placed on the left-hand side of the roadway.
4. When a shadow vehicle is not used, distance E is measured from end of taper to beginning of work space.

Signs



W20-1

Sign Spacing Chart

Condition	Distance				Speed MPH	Min. Channelizing Devices Per Taper Type (Length)				D Feet	E Feet	H Feet
	A Feet	B Feet	C Feet	F Feet		W Feet	L Feet	1/2L Feet	1/3L Feet			
Urban 35 MPH or less	100	100	100	100	25	10	105	55	35	6	6	6
Urban Greater than 35 MPH	350	350	350	350	30	10	150	75	50	6	6	6
	350	350	350	350	35	10	165	85	55	7	6	6
Rural	500	500	500	500	40	10	225	115	75	8	6	6
	500	500	500	500	45	10	245	125	85	8	6	6

When multiple distance plaques are used on advance warning signs, they shall all be of the same series type.
Example: either all "AHEAD" or "XXX FEET".

Taper Length Formulas

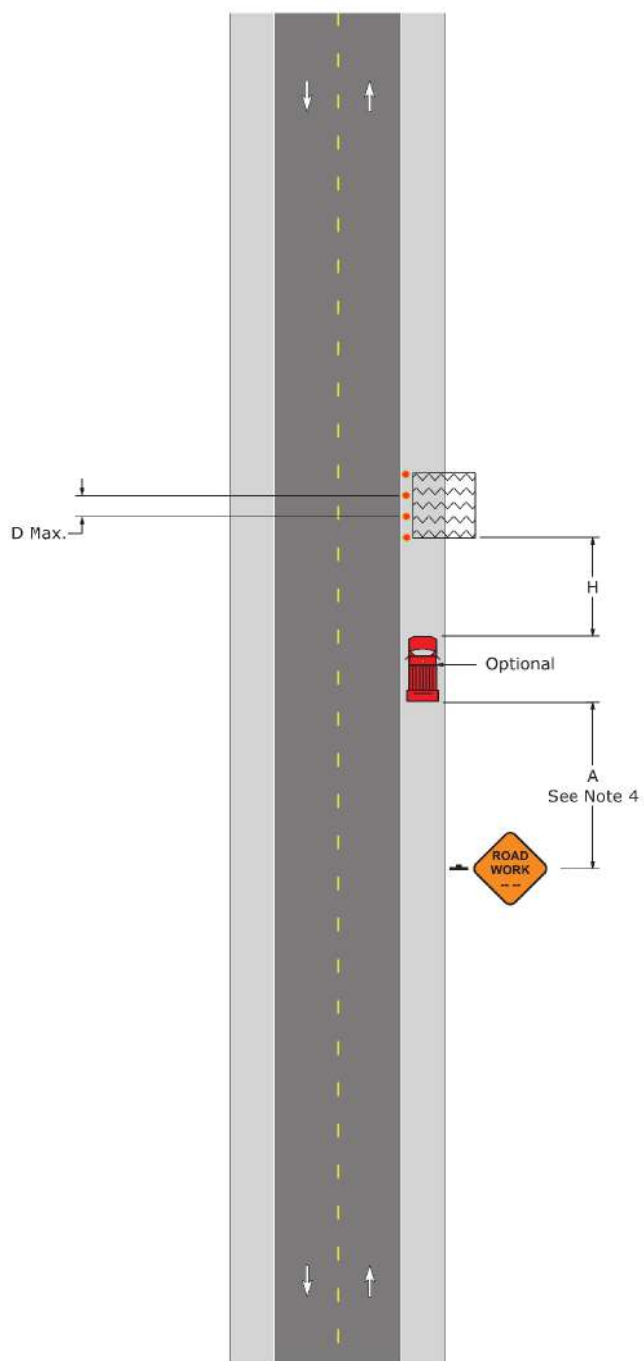
S	L
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45 MPH or more	L = WS ² 60

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W = Width of Offset
L = Length

Note: Channelizing devices used in taper shall be equally spaced at 1/3 D Max.

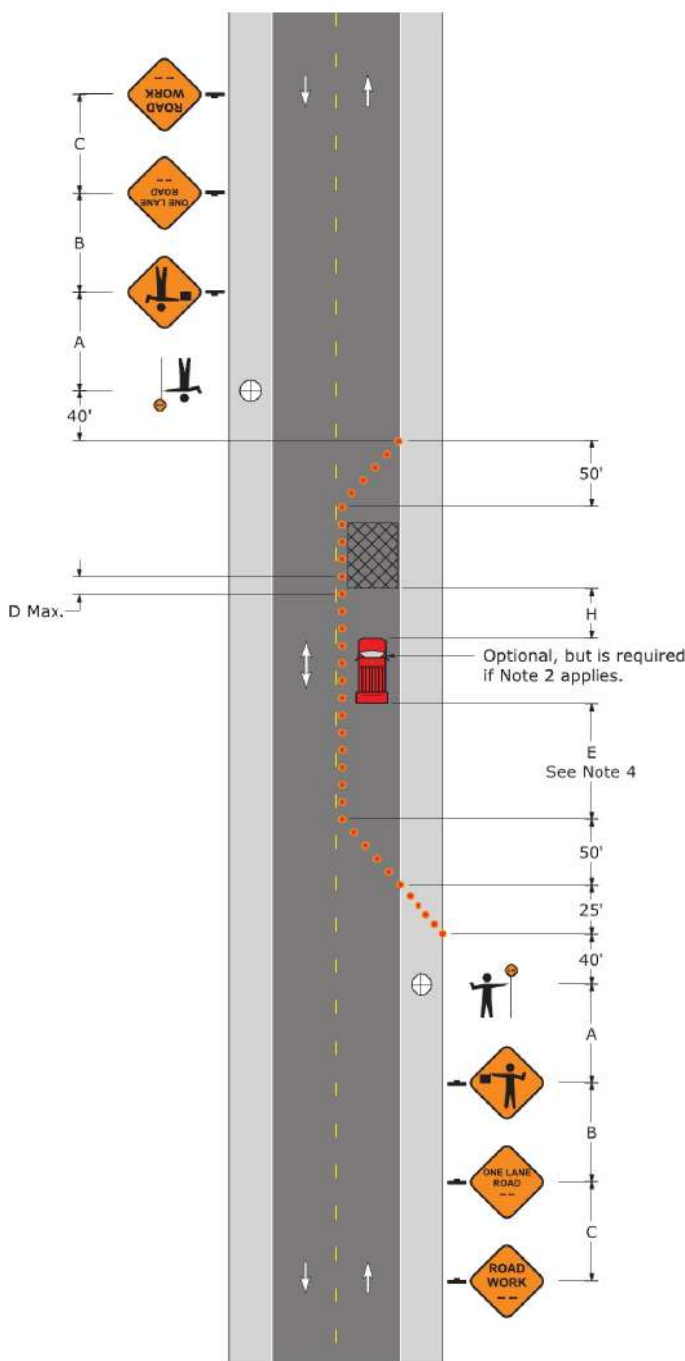
PATA 101 (Old PATA 5)

Work Space On Or Beyond The Shoulder (No Roadway Encroachment)



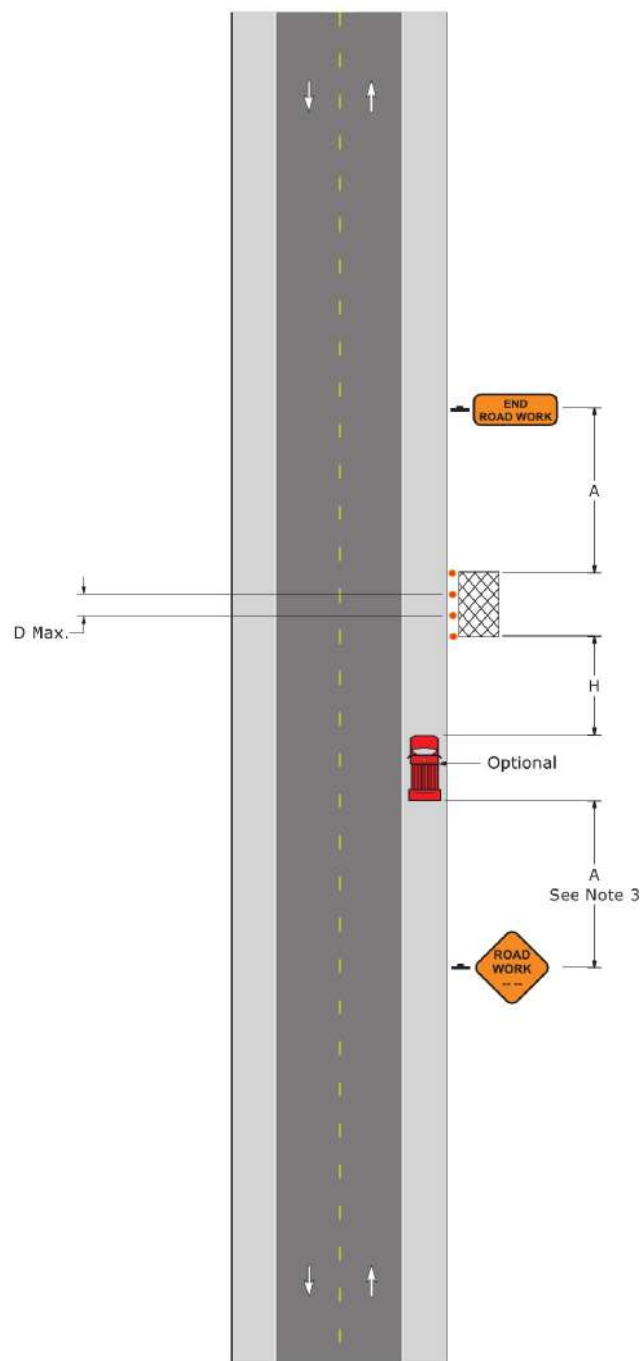
PATA 107 (Old PATA 10a)

Work In One Lane; Two Flaggers



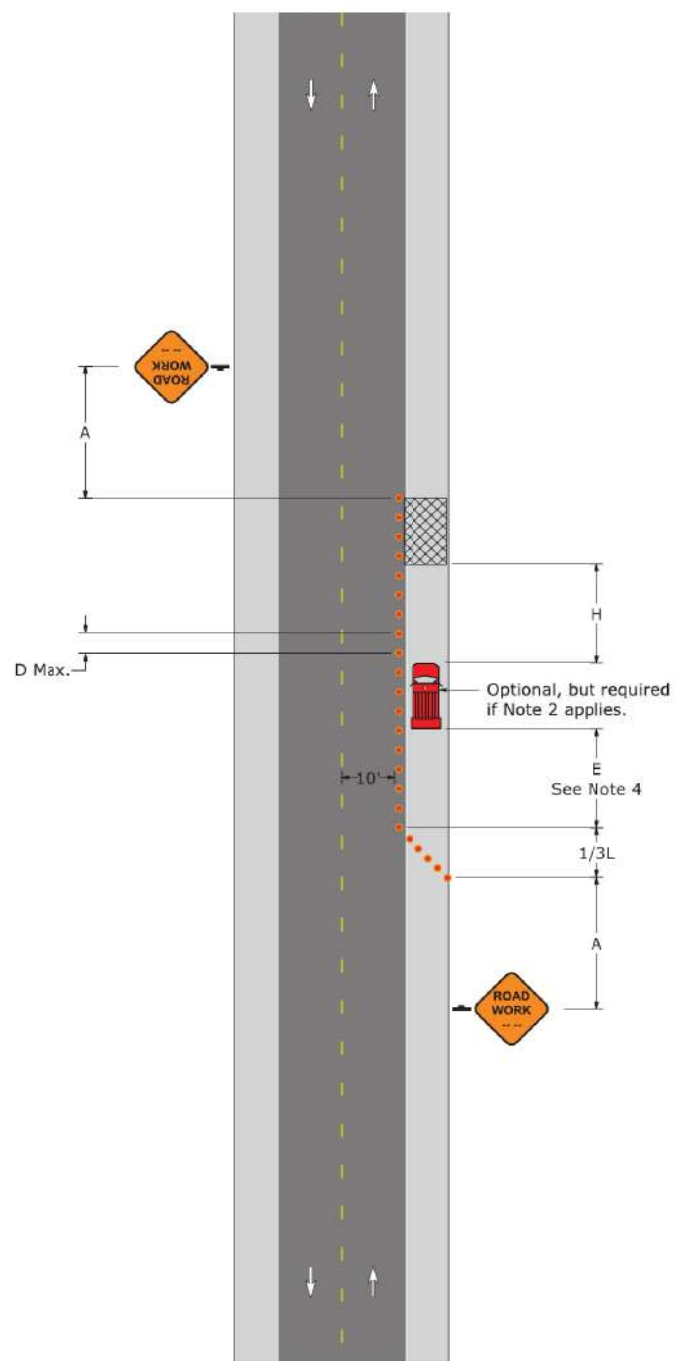
PATA 201 (Old PATA 24)

Work Space Beyond Shoulder



PATA 102 (Old PATA 7)

Work Space On Or Beyond The Shoulder (Minor Roadway Encroachment)



NOTES:

SAFETY BUILD-UP MUST BE USED ANY PLACE WHERE OPEN EXCAVATION ALONG ACTIVE ROADWAYS RESULTS IN A DROPOFF GREATER THAN 2".

A TEMPORARY 4" WHITE EDGE LINE SHALL BE PROVIDED IF THE EXISTING EDGE LINE IS TO BE REMOVED. MINIMUM EFFECTIVE LANE WIDTHS OF 11' SHALL BE PROVIDED. PROVIDE TEMPORARY PAVING AS REQUIRED TO MAINTAIN EFFECTIVE LANE WIDTH.

DROP-OFF DETAIL
(NOT TO SCALE)