

SIGNATURE BLOCKS

I, _____, acknowledge that I am the registered owner of the designated land, that all necessary approvals of the plan have been obtained and is endorsed thereon, and that I desire that the foregoing plan be recorded according to law.

Name: _____ Date: _____

Commonwealth of _____
(or if not in Pennsylvania, State of _____)
County of _____

On this, the _____ day of _____, 20____, before me, the undersigned officer, a notary public, personally appeared _____ known to me or satisfactorily proven to be the persons whose name is subscribed to the within instrument, and acknowledged that they executed the same for the purposes therein contained.

In witness whereof, I have hereunto set my hand and office seal.

Seal _____ Notary Public
Commission Expiration Date _____

This plan has been reviewed by the Township Engineer on this _____ day of _____, 20____.

Engineer _____

Bucks County Planning Commission notation BCPC No. 12599 processed and reviewed. Report prepared by the Bucks County Planning Commission in accordance with the Municipalities Planning Code. Certified this date _____

Evan J. Stone Executive Director
Bucks County Planning Commission

Recorded in the office for the recording of deeds, etc. in and for the County of Bucks, at Doylestown, Pennsylvania in Plan Book _____ Page _____ on this _____ day of _____, 20____.

Bucks County Recorder of Deeds
This plan approved by the Board of Supervisors of Plumstead Township this _____ day of _____, 20____.

IMPERVIOUS SURFACE ALLOWANCE BY LOT (S.F.)

LOT	Base Site Area	Max. Imp. Sur. Ratio	Allowable Imp. Sur.	Proposed Imp. Sur.	Rem. All. Imp. Sur.
1	13,075	0.50	6,538	2,950	2,588
2	10,111	0.50	5,056	2,553	2,503
3	10,213	0.50	5,107	2,849	2,258
4	7,500	0.50	3,750	2,142	1,608
5	7,500	0.50	3,750	2,142	1,608
6	16,125	0.50	8,063	1,981	3,000
7	12,168	0.50	6,084	1,935	3,000
8	15,591	0.50	7,796	1,984	3,000
9	9,788	0.50	4,894	2,383	2,511
10	10,988	0.50	5,494	2,142	3,352

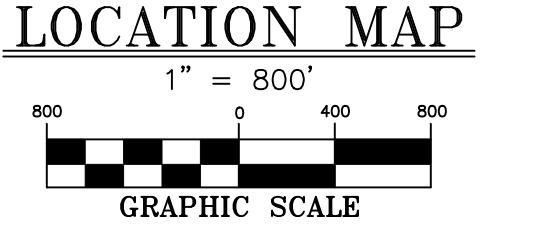
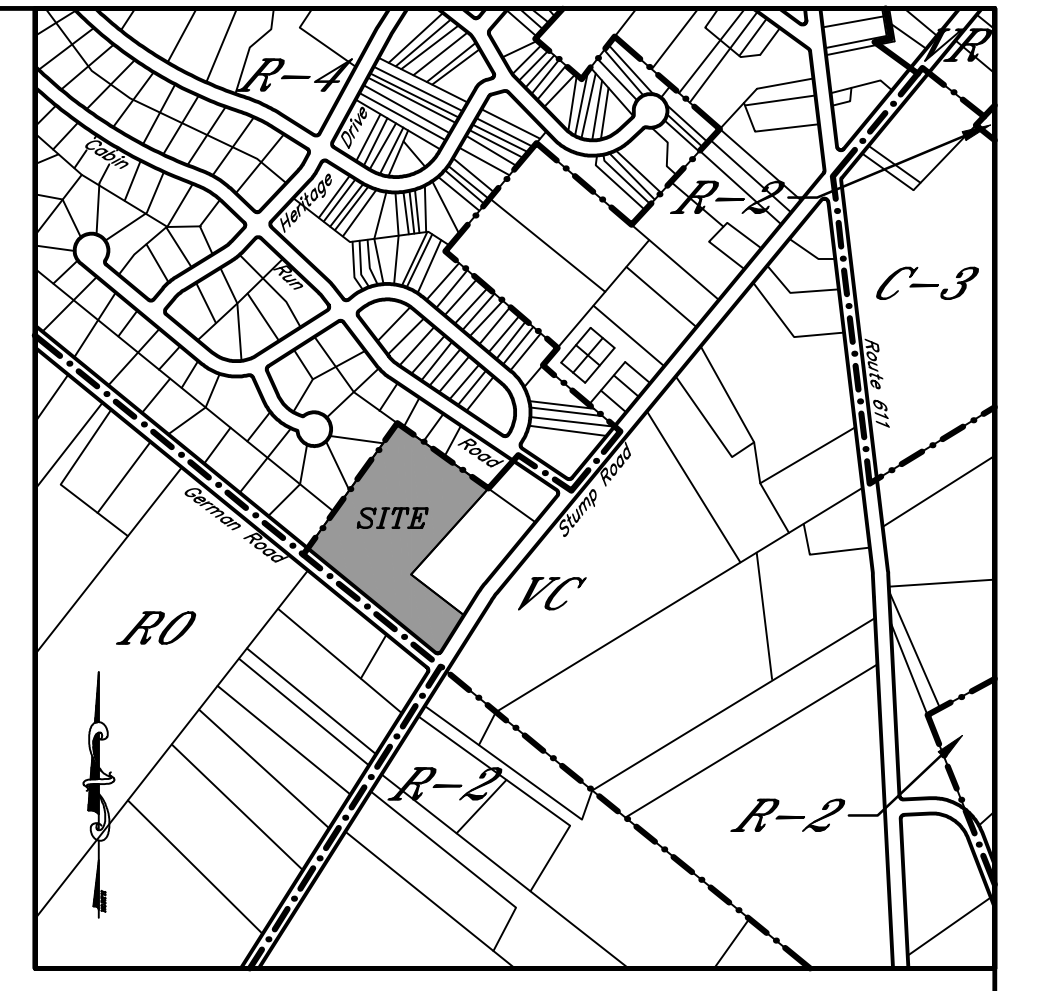
NOTE:
The remaining allowable impervious surface for each lot is based upon the design of the stormwater management facilities, and may not be exceeded without additional stormwater management application.

RIGHT-OF-WAY CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD BEARING	LENGTH
RWC1	30.00'	51.35'	N81°32'41" E	45.30'
RWC2	1590.00'	100.31'	N34°19'14" E	100.29'
RWC3	30.00'	47.12'	N85°34'35" E	42.43'
RWC4	132.00'	105.60'	S17°40'50" W	102.71'
RWC5	66.00'	288.86'	N60°42'05" W	108.77'
RWC6	132.00'	53.53'	N52°11'39" E	53.17'
RWC7	30.00'	47.12'	N04°25'25" W	42.43'
RWC8	66.00'	23.08'	N53°47'39" E	22.96'
RWC9	66.00'	79.88'	S09°11'54" W	74.91'
RWC10	66.00'	70.47'	S55°58'06" E	67.17'
RWC11	66.00'	72.45'	N81°59'48" E	68.86'
RWC12	66.00'	41.20'	N12°40'04" E	40.53'
RWC13	132.00'	83.60'	S12°55'45" W	82.21'
RWC14	132.00'	21.89'	N35°49'29" E	21.87'

DRAINAGE EASEMENT LINE TABLE

LINE	BEARING	LENGTH
ED1	N85°37'49" W	26.83'



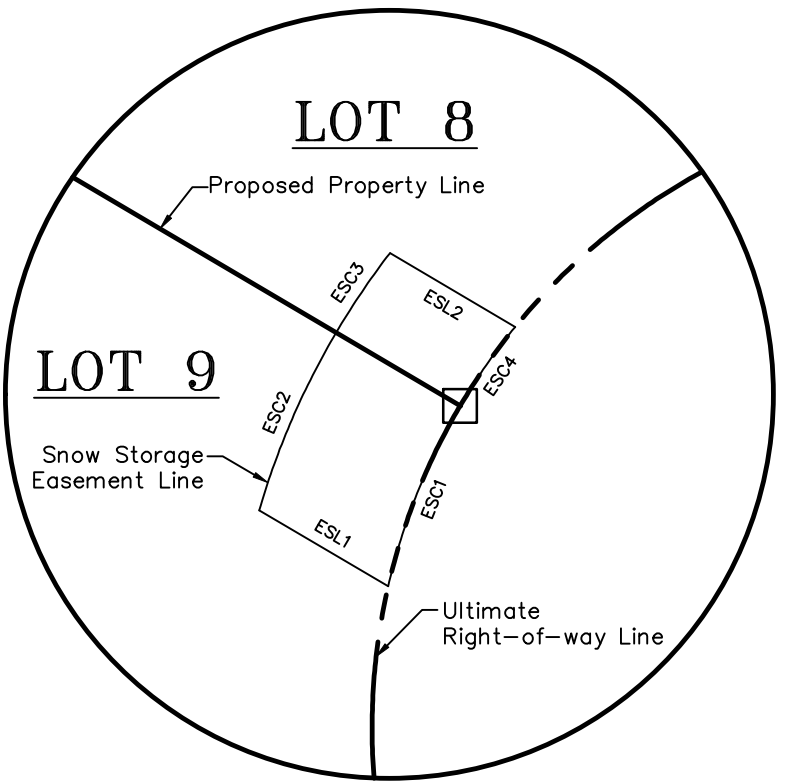
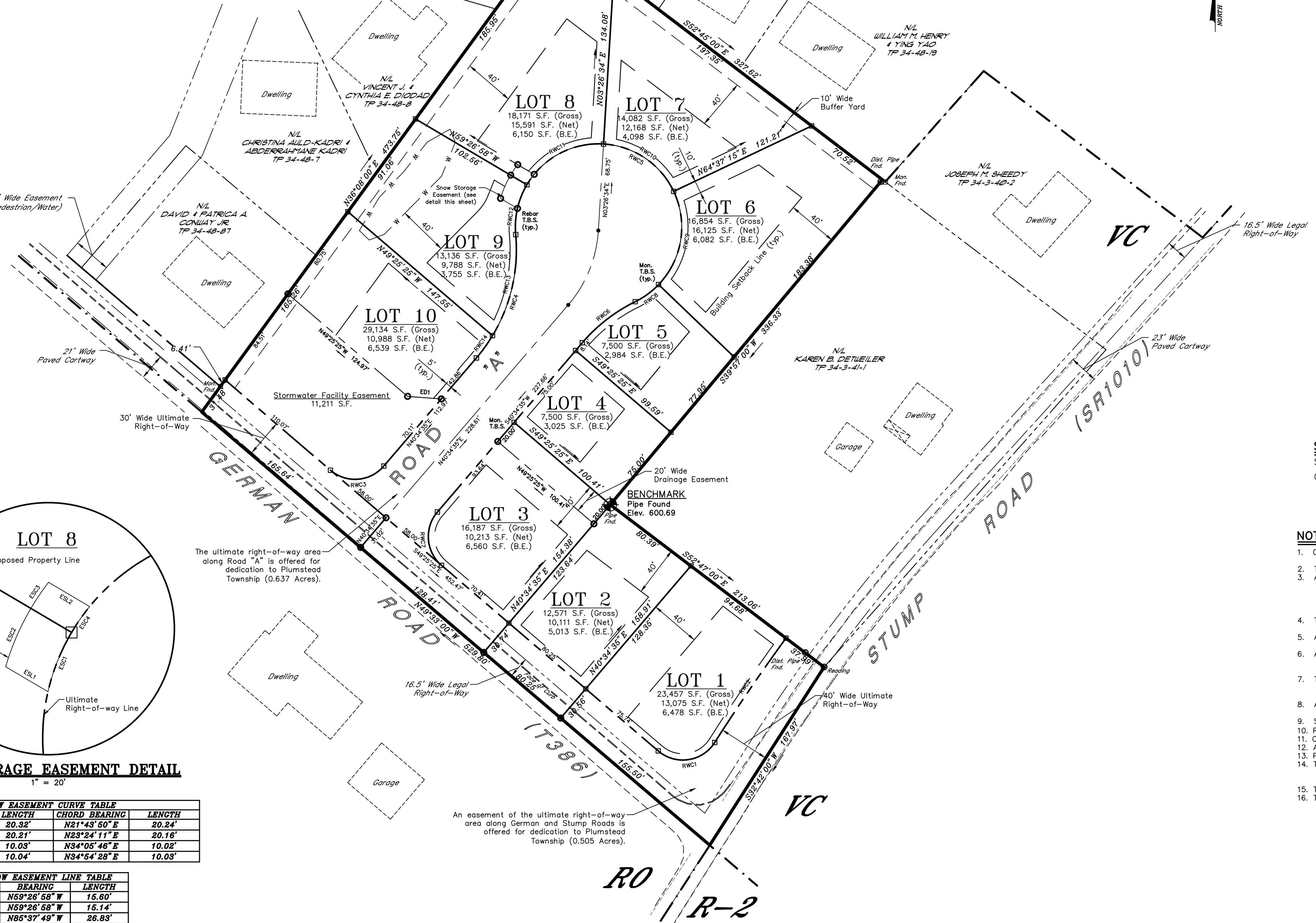
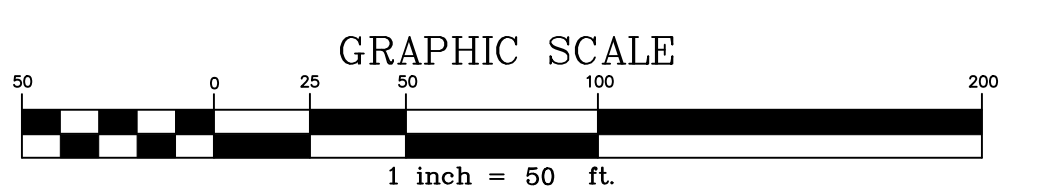
SYMBOLS

- Property Corner Marker
- Concrete Monument Corner Marker
- Adjoining Property Line (Approx.)
- Building Setback Line
- VC - Zoning District
- Zoning District Boundary Line
- Wetlands Boundary Line
- (B.E.) - Building Envelope
- Slanted Text - Existing Features
- Straight Text - Proposed Features

SOILS
Soil survey of Bucks County, PA USDA - NRCS: Soil Map Legend
CWA - Croton Silt Loam, 0 to 3 percent slopes (entire site)

NOTES

- Contour Datum: Based on field surveys performed by Mease Engineering, P.C. in October 2020 and January 2021 and is based on NAVD 1988.
- The cluster mailbox shall be installed as directed by the Township.
- Attention all contractors: locations of existing utilities shown hereon have been developed from utility company records and/or aboveground inspection of the site. Completeness or accuracy of type, size, depth, or horizontal location can not be guaranteed. In accordance with Pennsylvania Legislative Act Number 38, contractors must verify location and depth of all underground utilities and facilities prior to start of work.
- The area within the ultimate right-of-way of German and Stump Roads is hereby offered for dedication as an easement to Plumstead Township.
- All lots in this subdivision shall be serviced by public sewer provided by Bucks County Water and Sewer Authority and public water provided by Plumstead Township.
- All proposed utilities, including, but not limited to gas, electric, telephone, and cable TV facilities for all lots within the development shall be provided by underground service. No new utility poles shall be installed.
- Typical houses shown on accompanying plans are schematic only. Actual house configurations shall comply with all Plumstead Township zoning code requirements, setbacks, etc.
- All construction shall be performed in accordance with PennDOT specifications, publication 408 standards and Plumstead Township standards, as applicable.
- Street and stop signs to be placed at all intersections.
- Roof drains/downspouts and sump pumps shall discharge to the storm sewer.
- Curbs cuts and ramps shall be provided as required by the Americans with Disabilities Act.
- All lot corners to be marked as shown on plan.
- Plumstead Township Application #2021-07.
- The dwellings on Lots 1 and 3 must be oriented so as to face the road of higher classification as shown on the accompanying plans, i.e. the Lot 1 dwelling must face Stump Road and the dwelling on Lot 3 must face German Road.
- The owner of Lot 9 is responsible for maintenance of the cluster mailbox unit.
- The owner of Lot 10 is responsible for the maintenance of the stormwater management facility.



SNOW STORAGE EASEMENT TABLE

CURVE	RADIUS	LENGTH	CHORD BEARING	LENGTH
ESC1	66.00'	20.32'	N21°43'50" E	20.24'
ESC2	81.00'	20.21'	N29°24'11" E	20.16'
ESC3	81.00'	10.03'	N34°05'46" E	10.02'
ESC4	66.00'	10.04'	N34°54'28" E	10.03'

SNOW EASEMENT LINE TABLE

LINE	BEARING	LENGTH
ESL1	N59°26'58" W	15.60'
ESL2	N59°26'58" W	15.14'
ESL3	N85°37'49" W	26.83'

ZONING REQUIREMENTS

- Zoning District - VC (Village Center)
- Minimum Lot Area - 7,500 S.F.
- Maximum Lot Area - 2,000 Ac.
- Minimum Building Envelope - 2,000 S.F.
- Maximum Density - 5 units/ac. of base site area
- Minimum Lot Width - 75 Feet
- Maximum Imp. Surf. Ratio - 45%
- Base Site Area - 50%
- Lot - 5 Feet
- Minimum Front Yard - 10 Feet
- Minimum Side Yard - 40 Feet
- Maximum Building Height - 35 Feet

SITE DATA

- Total Tract Area - 4.271 Acres
- Tax Parcel Number - 34-3-41
- Deed Reference - Bk. 4639 Pg. 1925
- Use - B1 (Detached Dwelling)
- Water - Public
- Sewer - Public
- Imp. Surf. Ratio - 44.36%

SITE CAPACITY CALCULATIONS (In Acres)

1. Base Site Area:	4.271
Site Area as Determined by On-Site Survey	4.271
Wetlands Area	0.052
Existing Road Right-of-Way	-0.505
Base Site Area	3.714
2. Number of Dwelling Units/Lots	3.714
Base Site Area	3.714
Maximum Density	x5,000
Number of Dwelling Units	18.570
3. Impervious Surfaces	3.714
Base Site Area	3.714
Maximum Impervious Surface Ratio	x0.450
Impervious Surface	1.671

IMPERVIOUS SURFACE CALCULATIONS

Proposed Impervious Surfaces	17,038 S.F.
Proposed Road	15,500 S.F.
Proposed Dwellings	8,701 S.F.
Proposed Driveways	3,630 S.F.
Proposed Sidewalks	+ 26,289 S.F.
Additional Allowable (see table)	71,768 S.F.
Total Proposed Impervious Surfaces	72,802 S.F.
Max. Allowable Site Imp. Surfaces (1.695 ac.)	44.36%
Proposed Impervious Surface Ratio	44.36%

SURVEYOR'S CERTIFICATION

I, being a registered surveyor of the Commonwealth of Pennsylvania, do hereby certify that this plan, prepared from a field survey, correctly represents the property boundary of the proposed land development, to the best of my knowledge.

Registered Surveyor
Registration No. SU075452

ENGINEER'S CERTIFICATION

I, being a registered engineer in the Commonwealth of Pennsylvania, do hereby certify that the accompanying application, plans, and supporting documentation are true and correct to the best of my knowledge.

Registered Engineer
Registration No. PE036737E

PROJECT PLAN INDEX

SHEET NO.	TITLE
1 of 10	Record Plan
2 of 10	Existing Features Plan
3 of 10	Grading & Utilities Plan
4 of 10	Plan & Profile Sheet
5 of 10	Sanitary Sewer & Water Details
6 of 10	Construction Details
7 of 10	Erosion and Sedimentation Control Plan
8 of 10	Erosion and Sedimentation Control Details
9 of 10	Post-Construction Stormwater Management Plan
10 of 10	Post-Construction Stormwater Management Details

CALL BEFORE YOU DIG!
PENNSYLVANIA LAW REQUIRES
3 WORKING DAYS NOTICE
FOR CONSTRUCTION PHASE
AND 10 WORKING DAYS IN
DESIGN STAGE.

STOP!! CALL!!

PENNSYLVANIA ONE CALL SYSTEM
1-800-242-1776

PROJECT SERIAL NO.

ME Mease Engineering, P.C.

Office (215) 536-7005
Fax (215) 536-8881

516 W. Broad Street
Quakertown, PA 18951

PROFESSIONAL ENGINEERING & SURVEYING

NO.	DATE	DESCRIPTION	BY
1	04/30/21	Per Review Letter Dated 03/26/21	EN

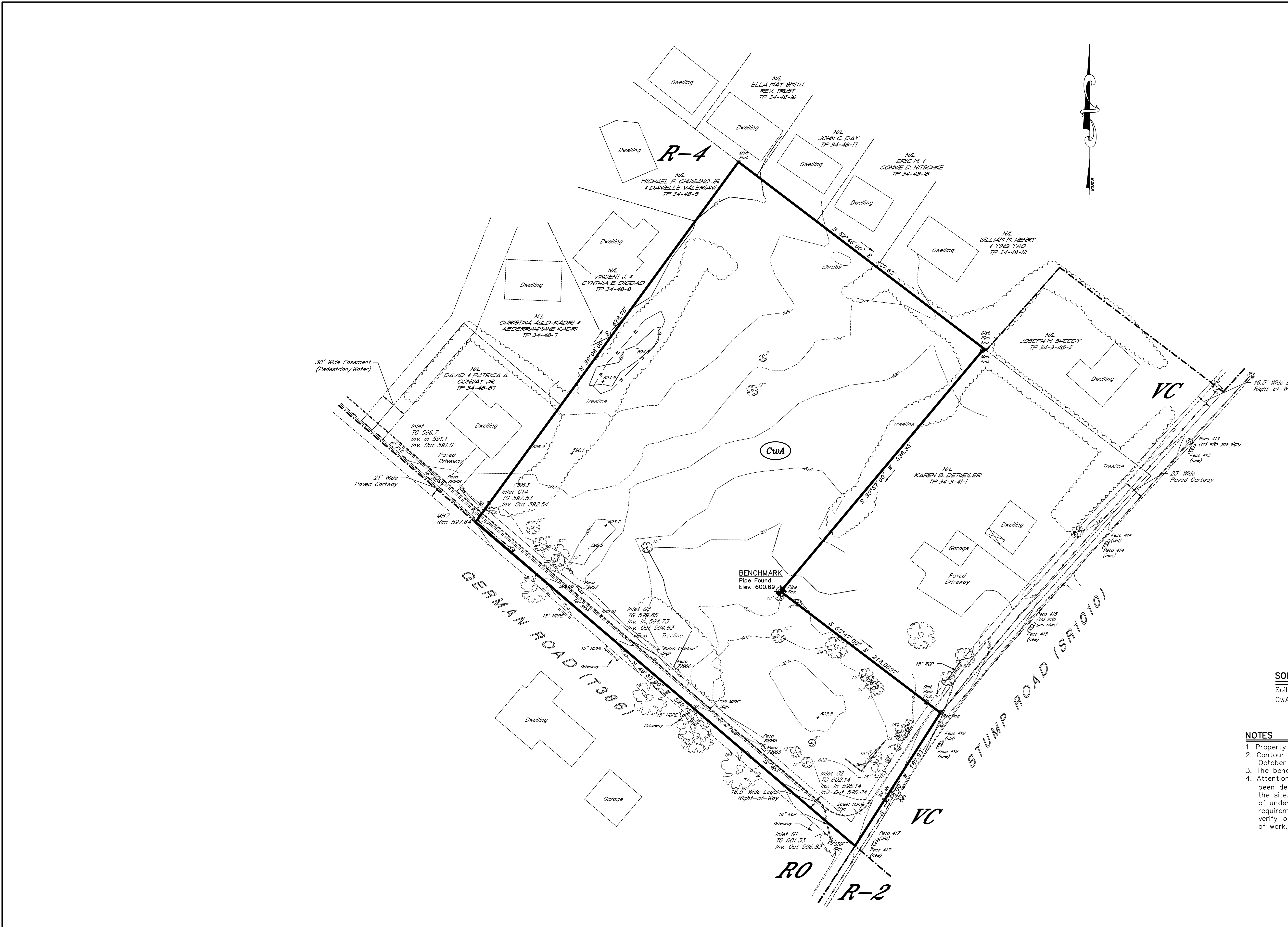
CLINTON SUBDIVISION PLAN
Plumstead Township, Bucks County, Pennsylvania

SCALE: 1" = 50'
DATE: 5 Mar. '21
DRAWN BY: TNF
FILE: 20030801

OWNERS OF RECORD: Edward I. & Rose Marie & Daniel E. Clinton
707 Dublin Road
Perkasie, PA 18944

T.P. 34-3-41

SHEET 1 of 10



SYMBOLS

- - Property Corner Marker
- ⊠ - Concrete Monument Corner Marker
- ⊕ - Utility Pole
- - Adjoining Property Line (Approx.)
- - Existing Contour
- 603.2 - Existing Spot Elevation
- VC** - Zoning District
- - Zoning District Boundary Line
- - Existing Sanitary Sewer Line
- ⊕ - Existing Sanitary Sewer Manhole
- - Existing Water Line
- ⊕ - Existing Water Valve
- ⊕ - Existing Fire Hydrant
- ⊕ - Existing Storm Water Manhole
- - Existing Storm Water Line
- ⊕ - Existing Telecom Manhole
- ⊕ - Existing Street Sign
- W - Wetlands Boundary Line
- - Tree Line
- ⊕ - Existing Tree
- CwA** - Soil Type
- - Existing Features
- - Proposed Features

TABLE OF NATURAL RESOURCES

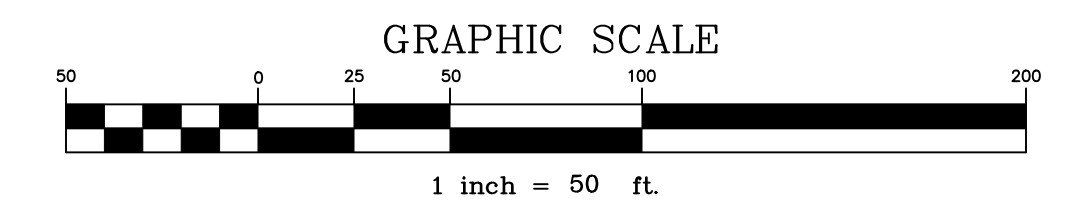
Natural Resource	Total Resource (Acres)	Allowable Disturbance (%)	Allowable Disturbance (Acres)
Wetlands	0.051	0	0.000

SITE DATA

Total Tract Area	- 4.271 Acres
Tax Parcel Number	- 34-3-41
Deed Reference	- Bk. 4639 Pg. 1925
Use	- B1 (Detached Dwelling)
Water	- Public
Sewer	- Public

SOILS
 Soil survey of Bucks County, PA USDA - NRCS: Soil Map Legend
 CwA - Croton Silt Loam, 0 to 3 percent slopes (entire site)

- NOTES**
- Property lines are based on a field survey performed in October 2020.
 - Contour Datum: A field survey was performed by Mease Engineering, P.C. in October 2020 and January 2021 and is based on NAVD 1988.
 - The benchmark used is the pipe found at a corner common to T.P. 34-3-41-1.
 - 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 underground facilities or structures cannot be guaranteed. Pursuant to the requirements of the Pennsylvania Legislative Act Number 38, contractors must verify location and depth of all underground utilities and facilities prior to start of work.



SURVEYOR'S CERTIFICATION
 I, being a registered surveyor of the Commonwealth of Pennsylvania, do hereby certify that this plan, prepared from a field survey, correctly represents the property boundary of the proposed land development, to the best of my knowledge.
 Registered Surveyor
 Registration No. SU075452

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ME Mease Engineering, P.C.
 Office (215) 536-7005
 Fax (215) 536-8881
 516 W. Broad Street
 Quakertown, PA 18951
PROFESSIONAL ENGINEERING & SURVEYING

NO.	DATE	DESCRIPTION	BY
1	04/30/21	Per Review Letter Dated 03/26/21	EN

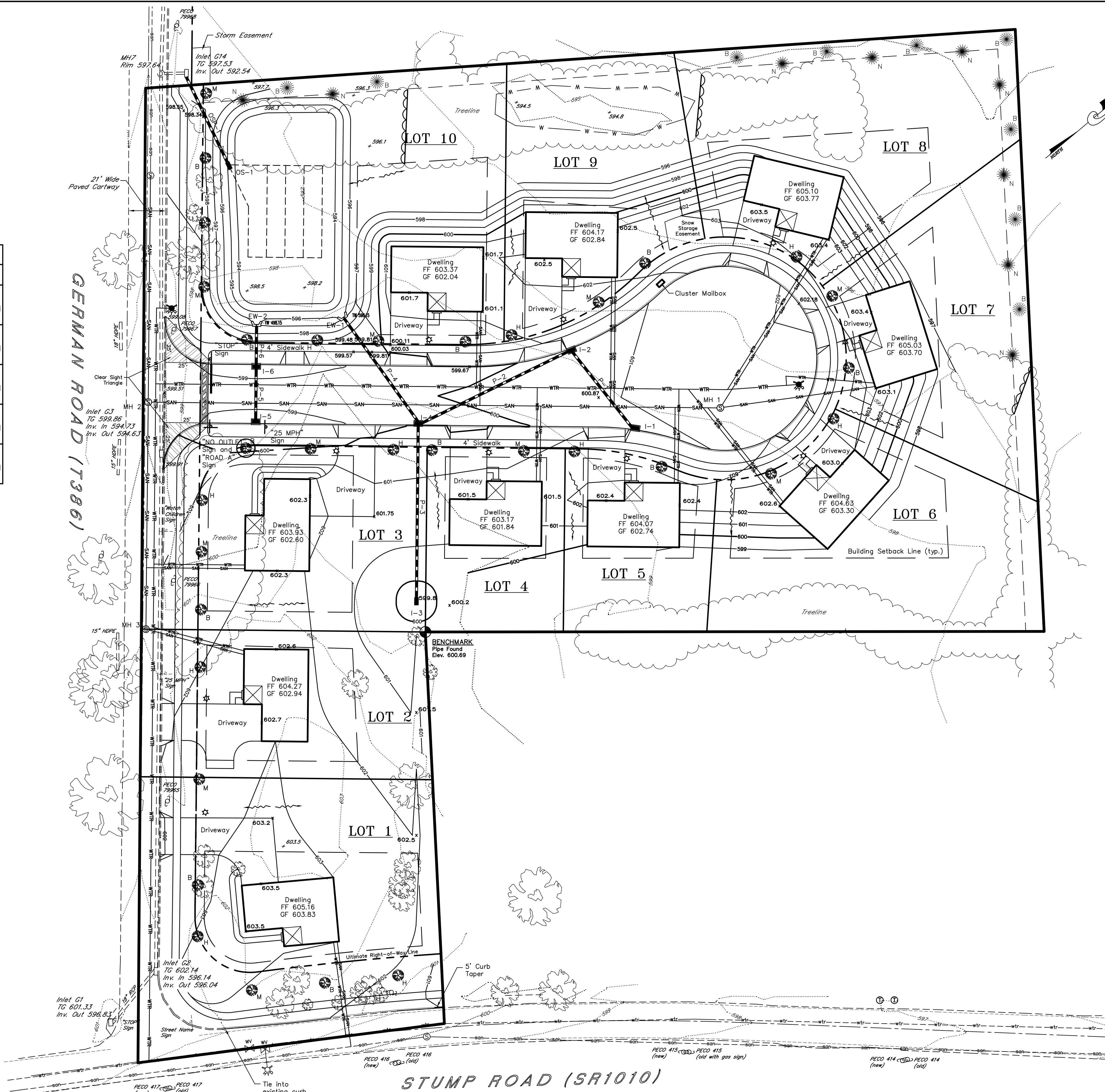
CLINTON SUBDIVISION PLAN
 Plumstead Township, Bucks County, Pennsylvania
 SCALE: 1" = 50'
 DATE: 5 Mar. '21
 OWNERS OF RECORD: Edward I. & Rose Marie & Daniel E. Clinton
 707 Dublin Road
 Parkside, PA 18944
Existing Features Plan
 SHEET 2 of 10

PLANTING SCHEDULE					
QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
11	M	Acer rubrum	Red Maple	3" min. caliper	balled & burlapped
11	B	Betula Nigra	Black Birch	3" min. caliper	balled & burlapped
11	H	Ostrya Virginiana	American Hophornbeam	3" min. caliper	balled & burlapped
9	N	Picea Abies	Norway Spruce	3" min. caliper	balled & burlapped
9	B	Abies Balsamea	Balsam Fir	3" min. caliper	balled & burlapped

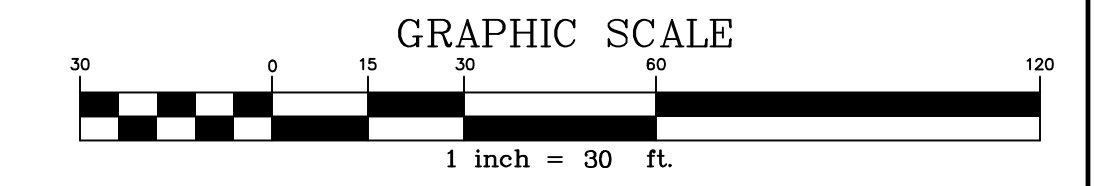
Note: Other plant material may be substituted for the above items listed as recommended by a qualified nurseryman and approved by the Township engineer.

AFFORESTATION TABLE			
Natural Resource	Required Area (Acres)	Existing Area (Acres)	Provided Area (Acres)
Woodlands	0.743	0.173	0.222

- NOTES**
- Contour Datum: Based on field surveys performed by Mease Engineering, P.C. in October 2020 and January 2021 and is based on NAVD 1988.
 - The cluster mailbox shall be installed as directed by the Township.
 - Attention all contractors: locations of existing utilities shown hereon have been developed from utility company records and/or aboveground inspection of the site. Completeness or accuracy of type, size, depth, or horizontal location can not be guaranteed. In accordance with Pennsylvania Legislative Act Number 38, contractors must verify location and depth of all underground utilities and facilities prior to start of work.
 - All lots in this subdivision shall be serviced by public sewer provided by Bucks County Water and Sewer Authority and public water provided by Plumstead Township.
 - All proposed utilities, including, but not limited to gas, electric, telephone, and cable TV facilities for all lots within the development shall be provided by underground service. No new utility poles shall be installed. This excludes existing utility poles that need to be relocated.
 - Typical houses shown on accompanying plans are schematic only. Actual house configurations shall comply with all Plumstead Township zoning code requirements, setbacks, etc.
 - All construction shall be performed in accordance with PennDOT specifications, publication 40B standards and Plumstead Township standards, as applicable.
 - Roof drains/downspouts and sump pumps shall discharge to the storm sewer.
 - A clear sight triangle of 25 feet shall be provided and maintained at the intersection of Road A and German Road. Nothing which obstructs the vision of a motorist shall be permitted in this area.
 - The minimum depth of topsoil to be placed during final grading of the site is 8", or the existing depth of topsoil encountered on the site, whichever is greater.
 - Existing healthy trees and vegetation located within the 10' wide buffer yard must be preserved.



SYMBOLS	
	Utility Pole
	Existing Contour
	Proposed Contour
	Building Setback Line
	Existing Spot Elevation
	Proposed Spot Elevation
	Existing Sanitary Sewer Line
	Existing Sanitary Sewer Manhole
	Existing Water Line
	Existing Water Valve
	Existing Fire Hydrant
	Existing Storm Water Manhole
	Existing Storm Water Line
	Existing Telecom Manhole
	Existing Street Sign
	Proposed Street Sign
	Proposed Street Line
	Existing Tree Line
	Proposed Tree Line
	Wetlands Boundary Line
	Existing Tree
	Proposed Deciduous Trees
	Proposed Evergreen Trees
	Proposed Sanitary Sewer Line
	Proposed Sanitary Sewer Manhole
	Proposed Water Line
	Proposed Fire Hydrant
	Proposed Storm Sewer Pipe
	Drainage Flow Arrow
	Proposed Lamp Post
<i>Slanted Text</i>	Existing Features
<i>Straight Text</i>	Proposed Features



ENGINEER'S CERTIFICATION
 I, being a registered engineer in the Commonwealth of Pennsylvania, do hereby certify that the accompanying application, plans, and supporting documentation are true and correct to the best of my knowledge.

Registered Engineer
 Registration No. PE036737-E

CALL BEFORE YOU DIG!
 PENNSYLVANIA LAW REQUIRES
 3 WORKING DAYS NOTICE
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 AND 10 WORKING DAYS IN
 DESIGN STAGE.

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 PROJECT SERIAL NO.

ME Mease Engineering, P.C.
 Office (215) 536-7005
 Fax (215) 536-8581

516 W. Broad Street
 Quakertown, PA 18951
PROFESSIONAL ENGINEERING & SURVEYING

NO.	DATE	DESCRIPTION	BY
1	04/30/21	Per Review Letter Dated 03/26/21	TNF

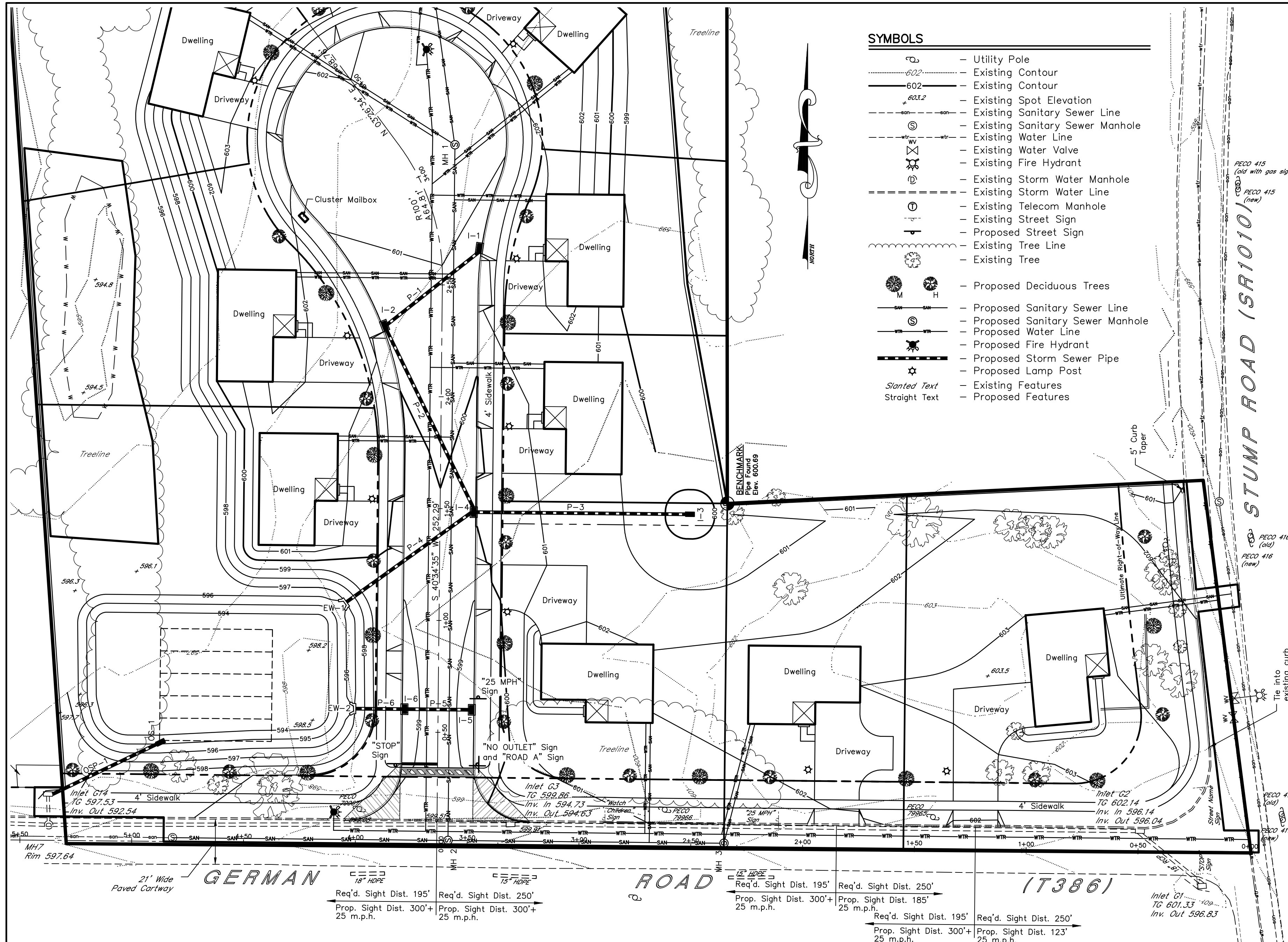
CLINTON SUBDIVISION PLAN
 Plumstead Township, Bucks County, Pennsylvania

SCALE: 1" = 30'
 DATE: 5 Mar '21
 OWNERS OF RECORD: Edward I. & Rose Marie & Daniel E. Clinton
 707 Dublin Road, Perkasie, PA 18944

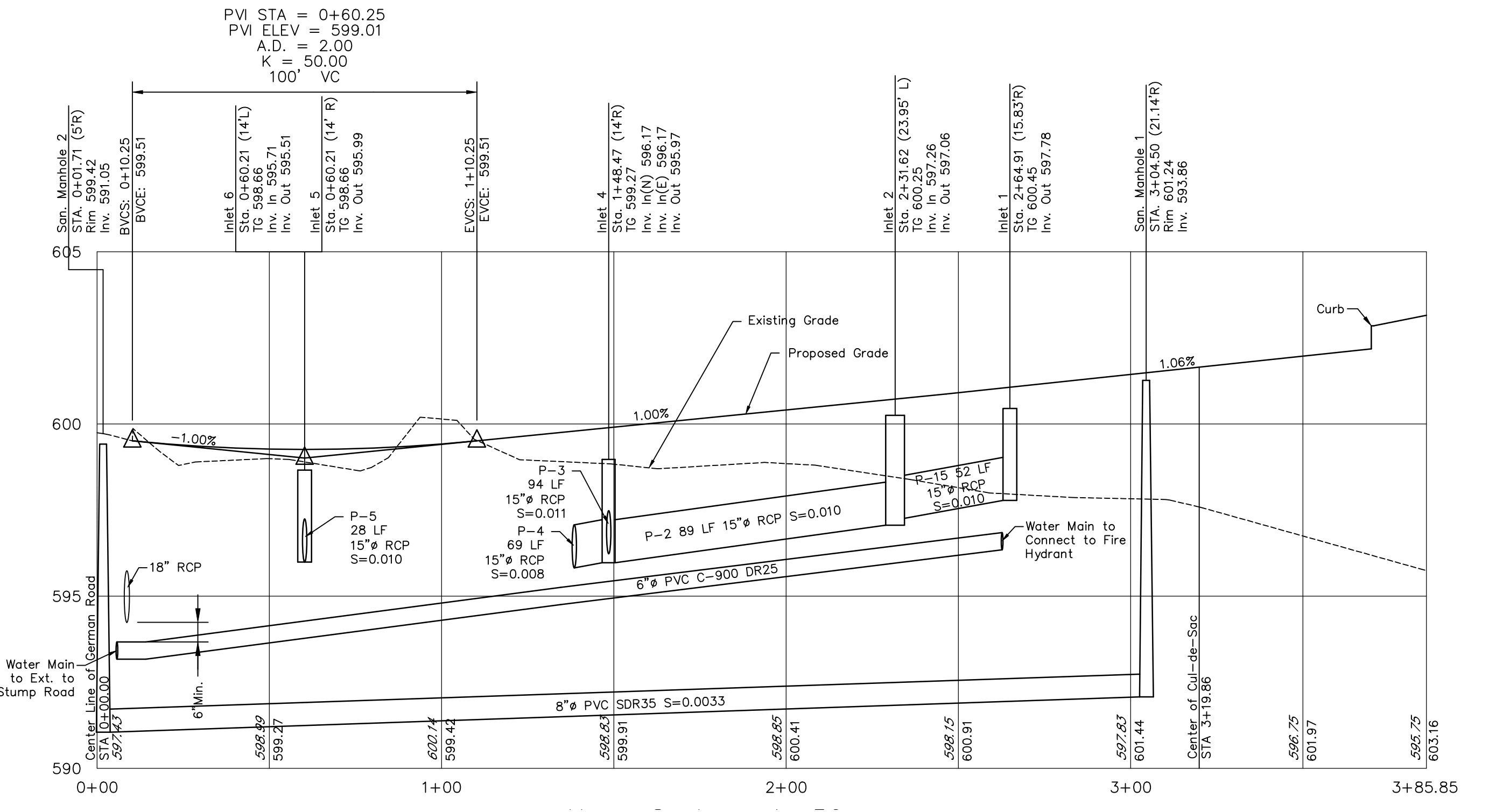
DRAWN BY: EN
 FILE: 20030803

Grading & Utilities Plan

SHEET 3 of 10

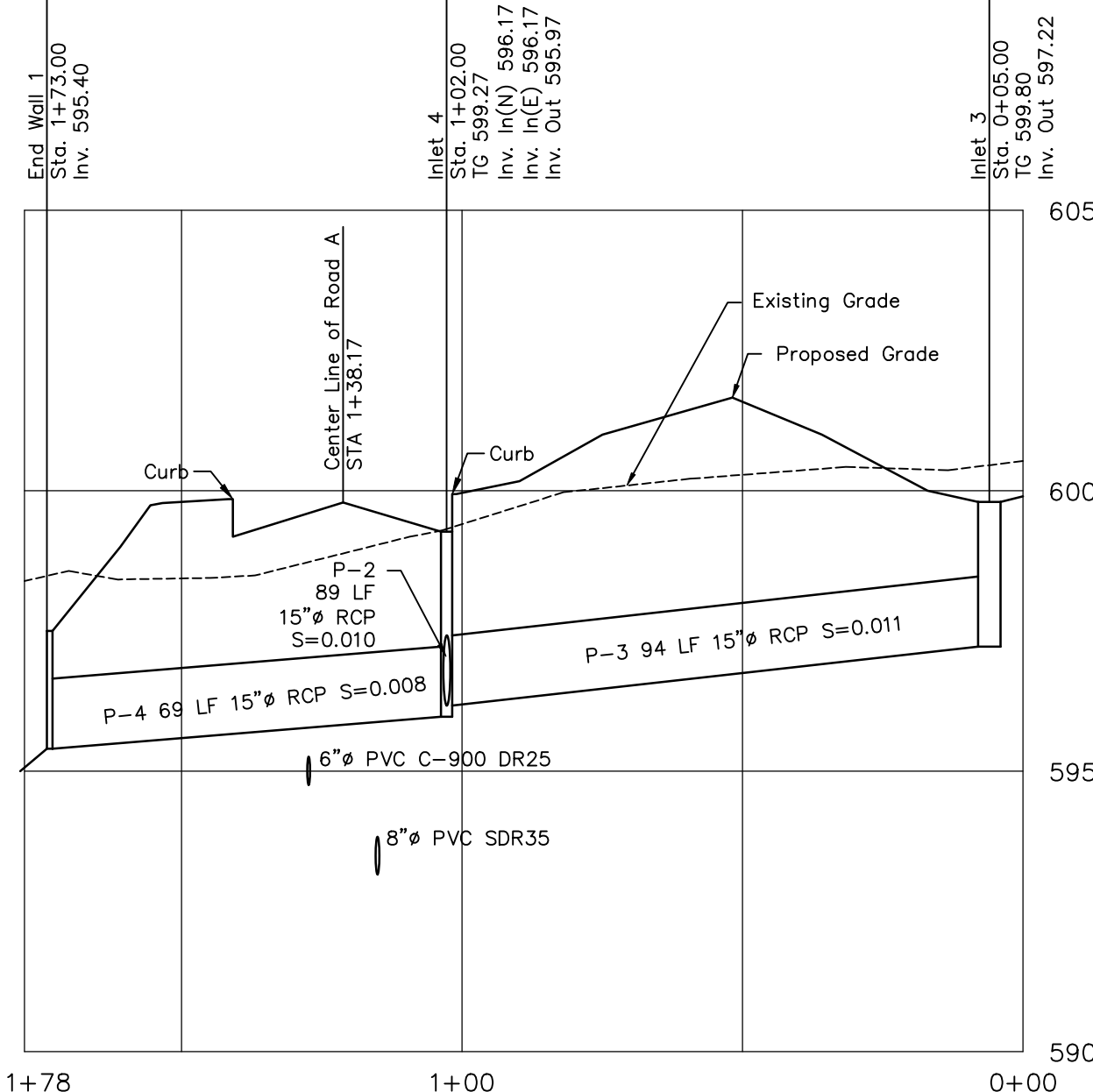


- SYMBOLS**
- Utility Pole
 - Existing Contour
 - Existing Spot Elevation
 - Existing Sanitary Sewer Line
 - Existing Sanitary Sewer Manhole
 - Existing Water Line
 - Existing Water Valve
 - Existing Fire Hydrant
 - Existing Storm Water Manhole
 - Existing Storm Water Line
 - Existing Telecom Manhole
 - Existing Street Sign
 - Proposed Street Sign
 - Existing Tree Line
 - Existing Tree
 - Proposed Deciduous Trees
 - Proposed Sanitary Sewer Line
 - Proposed Sanitary Sewer Manhole
 - Proposed Water Line
 - Proposed Fire Hydrant
 - Proposed Storm Sewer Pipe
 - Proposed Lamp Post
 - Existing Features
 - Proposed Features



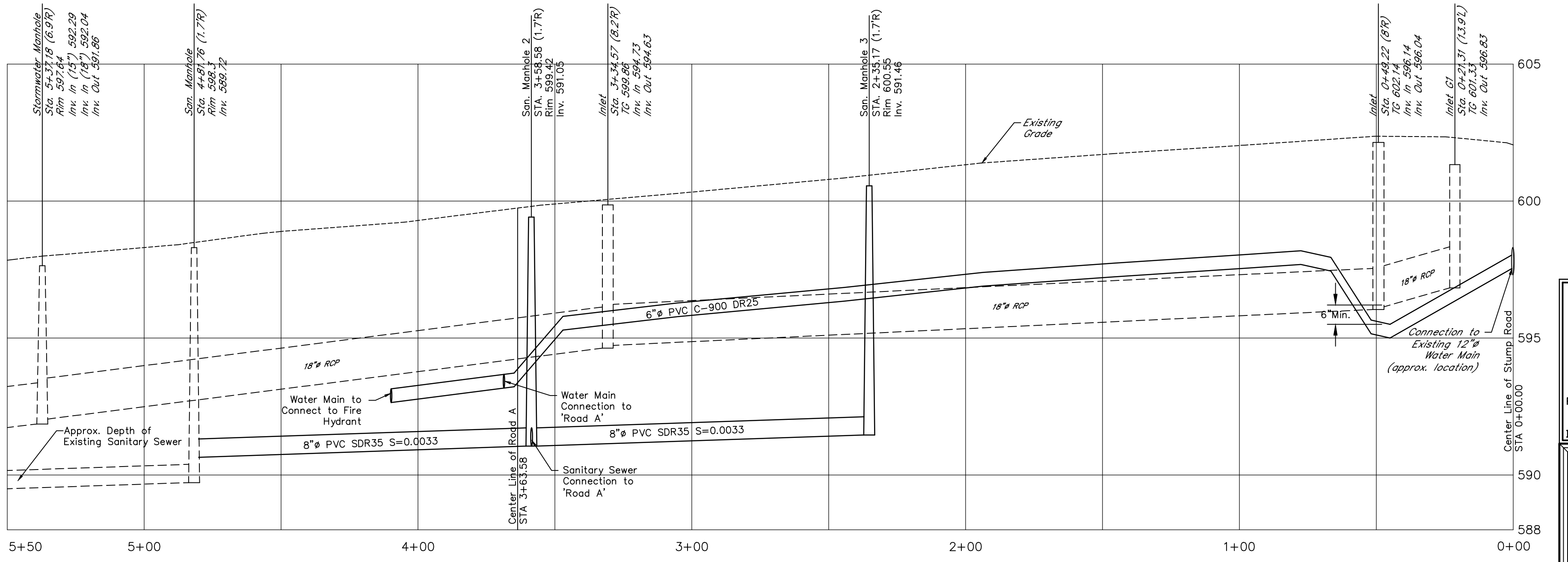
CENTERLINE PROFILE: ROAD 'A' STA 0+00 to 3+85.85
 Horiz. 1" = 50' Vert. 1" = 5'

ROAD PLAN: ROAD 'A' STA 0+00 to 3+85.38 and GERMAN ROAD STA 0+00 to 5+50
 1" = 30'



I-3 TO EW-1 PROFILE
 Horiz. 1" = 50' Vert. 1" = 5'

I-5 TO EW-2 PROFILE
 Horiz. 1" = 50' Vert. 1" = 5'



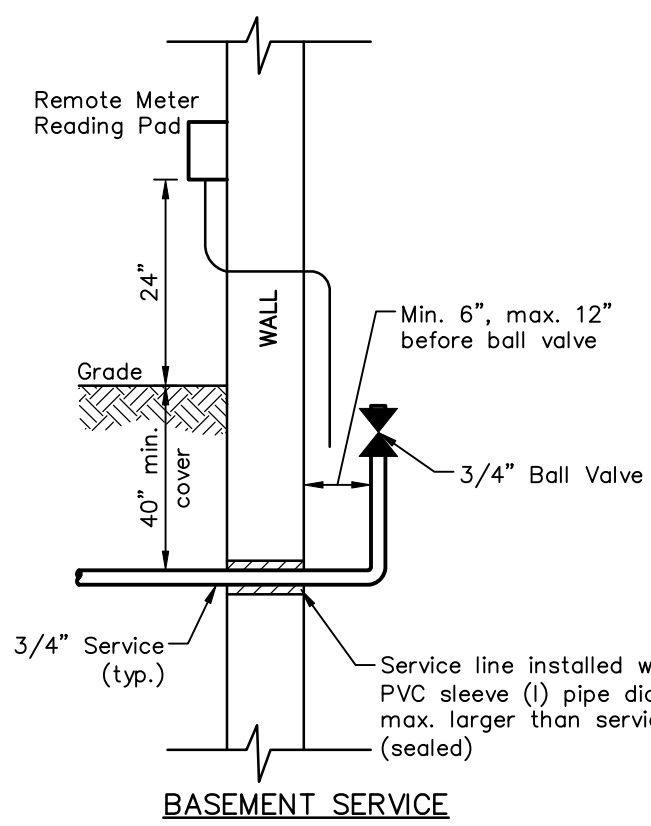
CENTERLINE PROFILE: GERMAN ROAD STA 0+00 to 5+50.00
 Horiz. 1" = 50' Vert. 1" = 5'

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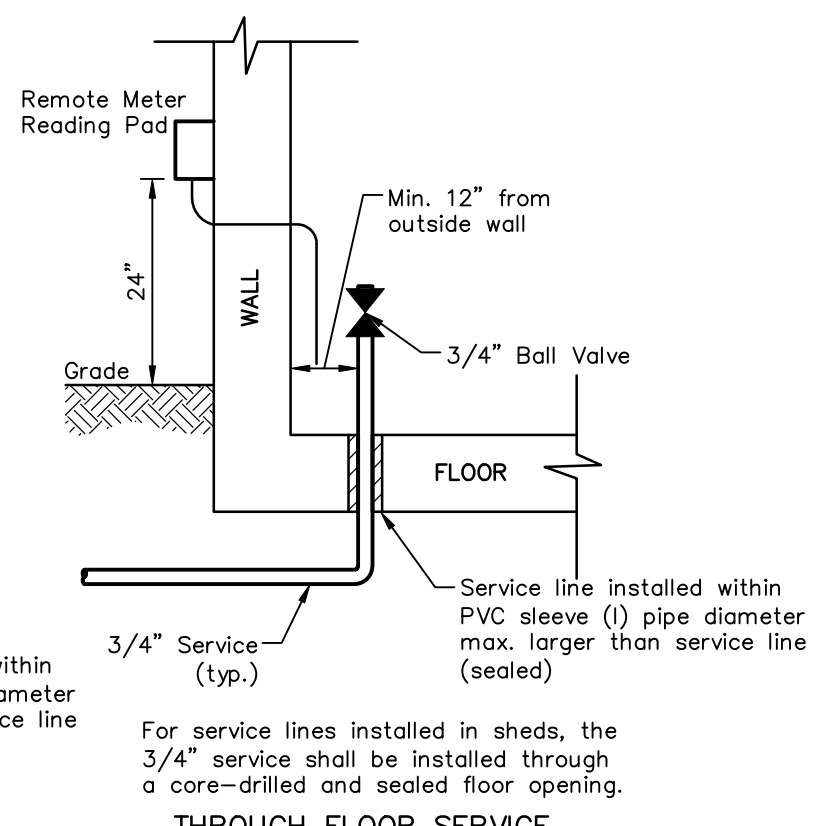
ME Mease Engineering, P.C.
 Office (215) 536-7005 Fax (215) 536-8581
 516 W. Broad Street
 Quakertown, PA 18951
PROFESSIONAL ENGINEERING & SURVEYING

NO.	DATE	DESCRIPTION	BY
1	04/30/21	Per Review Letter Dated 03/26/21	TNF

CLINTON SUBDIVISION PLAN
 Plumstead Township, Bucks County, Pennsylvania
 SCALE: As Noted DRAWN BY: EN
 DATE: 5 Mar. '21 FILE: 20030804
 OWNERS OF RECORD: Edward I. & Rose Marie & Daniel E. Clinton
 707 Dublin Road
 Perkasie, PA 18944
Road Plan and Profile



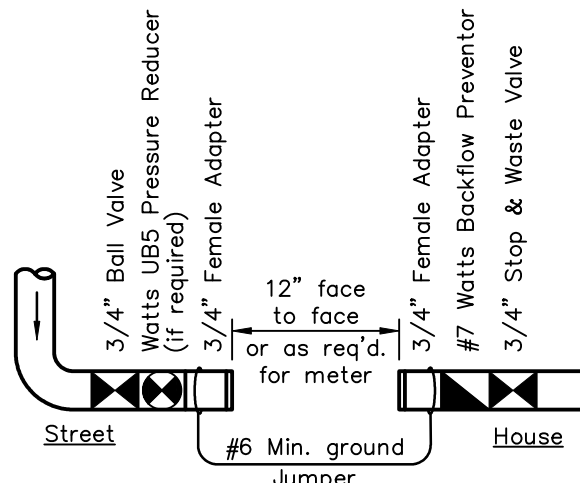
BASEMENT SERVICE



THROUGH FLOOR SERVICE

GENERAL NOTES:

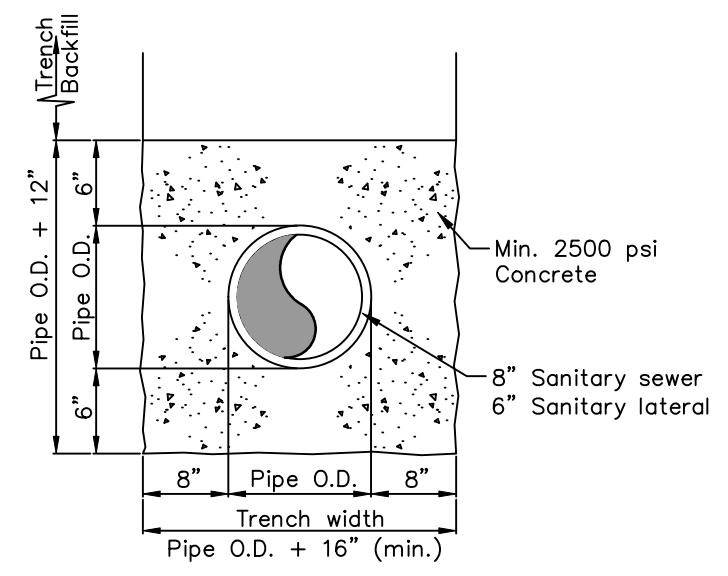
1. Notify authority at 215-538-9018 when water service is ready for inspection and testing. Do not backfill any portion of trench prior to approval.
2. Water authority will supply 3/4"x5/8" SR bronze remote type meter and remote meter reading pad and the backflow preventer for all sizes up to and including 1".
3. Pressure reducing valve is required where pressure is greater than 65 psi.
4. Meter location must be approved by the authority.
5. All service lines are to be K-type tubing with no sweat joints or couplings underground.
6. Watts number 7 backflow preventer is required on all services.
7. Pressure reducer valve to be Watts UB5 (if required).



FRONT VIEW OF SETTING

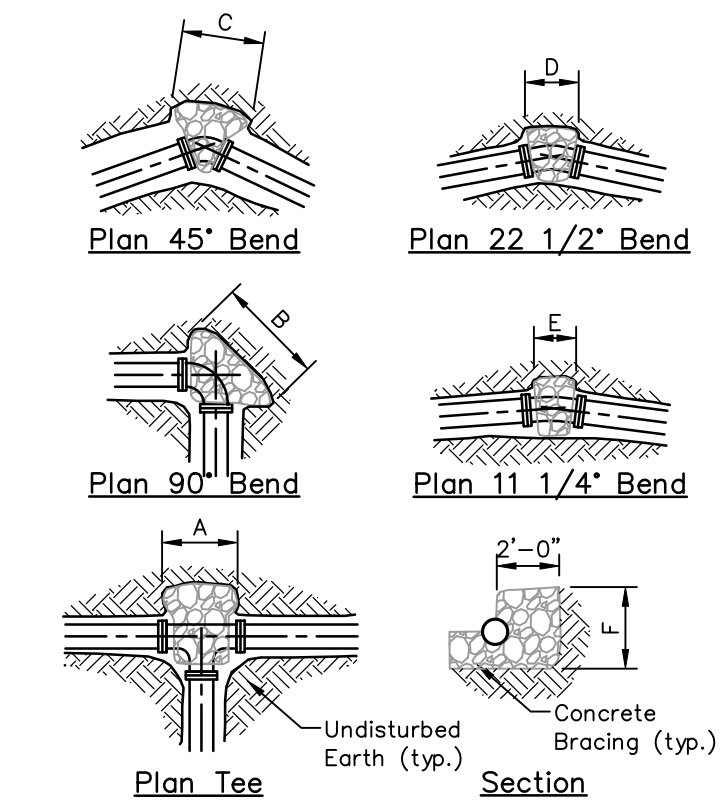
RESIDENTIAL METER SETTING REQUIREMENTS

N.T.S.



CONCRETE ENCASUREMENT

N.T.S.



STANDARD PIPE BEDDING WATER MAIN

N.T.S.

NOTE: Provide plastic covering to protect pipe joints from concrete.

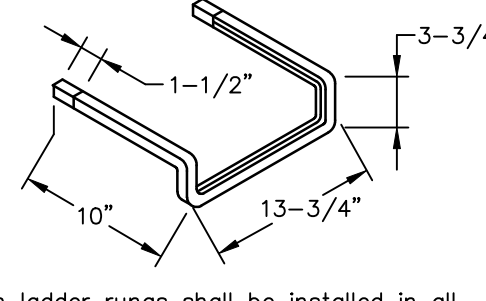
DESIGN PRESSURE	PIPE DIAMETER	A	B	C	D	E	F
150 PSI	16	3'-0"	2'-2"	4'-2"	2'-2"	-	3'-1"
	12	4'-2"	3'-11"	3'-3"	1'-8"	-	2'-8"
	8	3'-0"	4'-3"	2'-4"	1'-2"	-	1'-8"
	6	2'-2"	3'-4"	1'-10"	0'-11"	-	1'-3"
	4	1'-6"	2'-0"	1'-0"	0'-11"	-	0'-11"
	3	1'-0"	1'-6"	0'-6"	0'-6"	-	0'-6"
200 PSI	16	7'-3"	10'-3"	5'-7"	2'-10"	1'-8"	3'-4"
	12	5'-7"	7'-11"	4'-3"	2'-2"	1'-2"	2'-8"
	8	4'-0"	4'-7"	3'-1"	1'-7"	0'-10"	1'-8"
	6	3'-1"	4'-5"	2'-5"	1'-3"	0'-8"	1'-3"
	4	2'-0"	3'-2"	1'-11"	0'-11"	0'-11"	0'-11"
	3	1'-6"	2'-0"	1'-0"	0'-11"	0'-11"	0'-11"
250 PSI	16	8'-3"	13'-2"	7'-1"	3'-8"	2'-3"	3'-4"
	12	6'-4"	8'-11"	5'-4"	3'-9"	1'-9"	2'-8"
	8	5'-0"	6'-11"	3'-10"	1'-11"	1'-3"	1'-8"
	6	4'-0"	5'-5"	3'-9"	1'-10"	1'-1"	1'-3"
	4	3'-0"	4'-5"	2'-10"	1'-11"	1'-1"	1'-3"
	3	2'-0"	3'-4"	1'-10"	1'-1"	1'-1"	1'-3"

REACTION BACKING

N.T.S.

STANDARD PIPE BEDDING WATER SERVICE

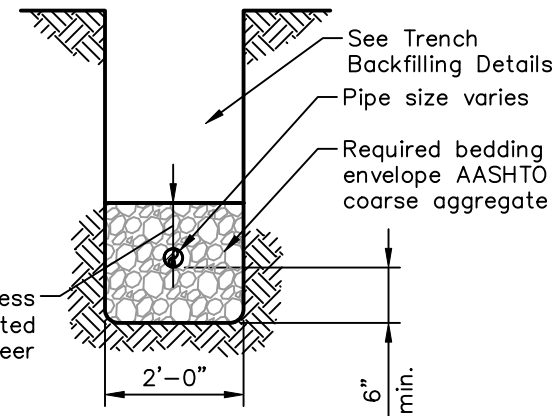
N.T.S.



Aluminum ladder rungs shall be installed in all inlets and manholes with a depth greater than 5-feet. Construction shall conform to PennDOT RC-39M standards.

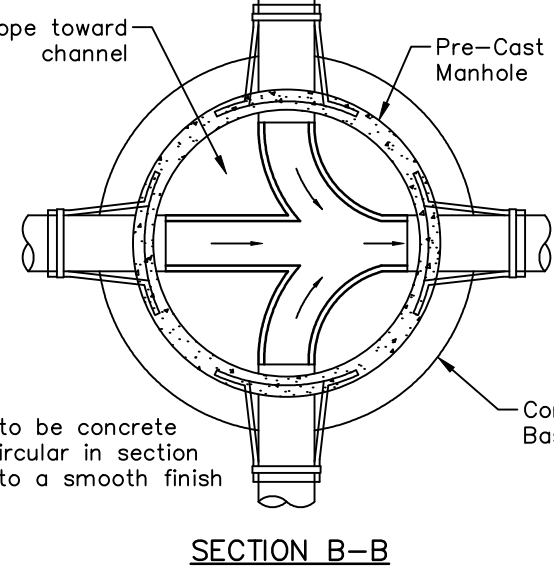
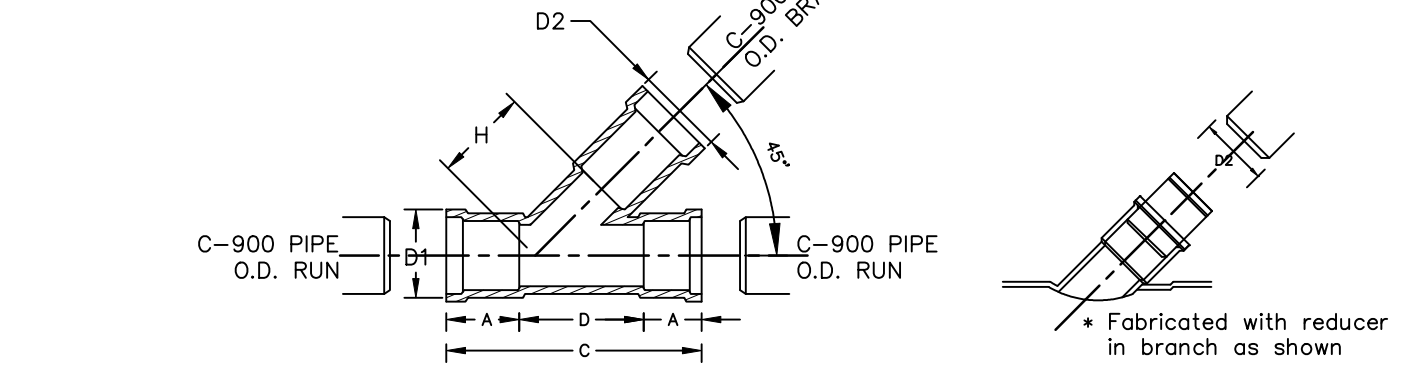
LADDER RUNG DETAIL

N.T.S.



STANDARD PIPE BEDDING WATER SERVICE

N.T.S.



LOCK JOINT FLEXIBLE MANHOLE SLEEVE

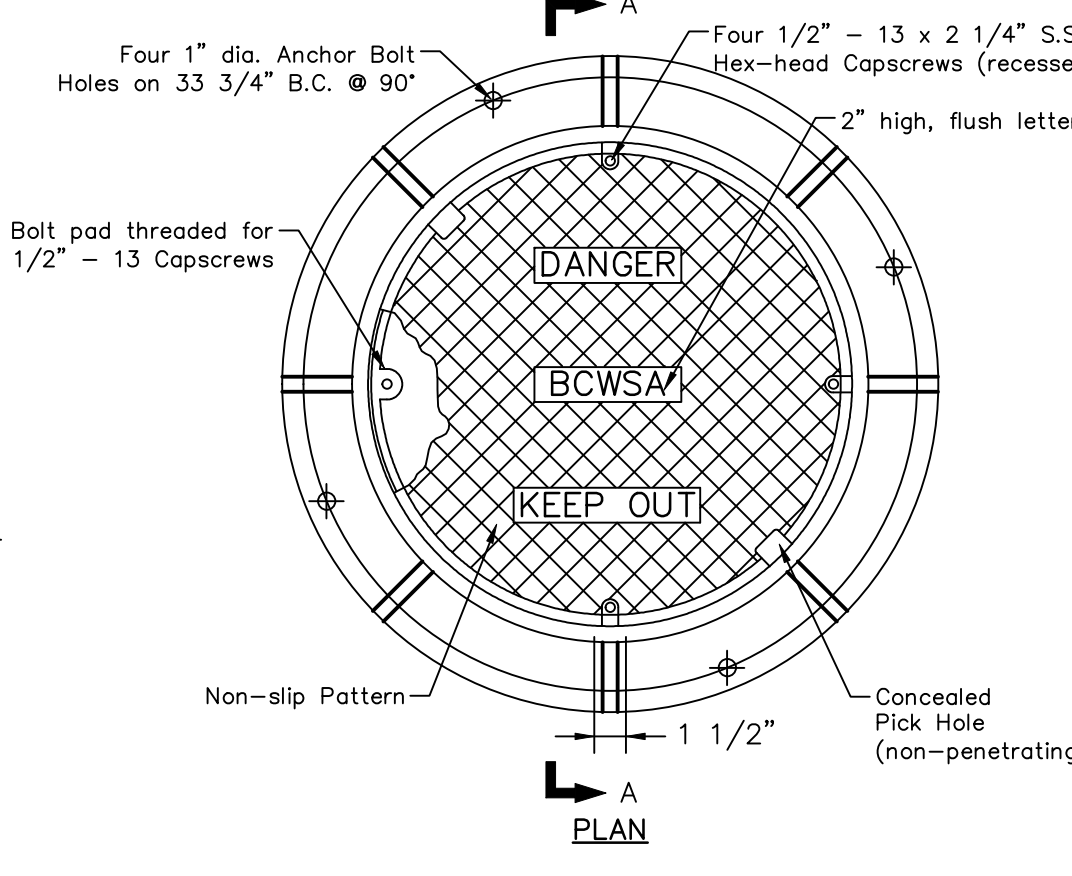
N.T.S.

PART #	SIZE	A	B	C	D	H	D1	D2	t	C-900 PIPE O.D. RUN	C-900 PIPE O.D. BRANCH
301-0806	8 x 6	5.38	.88	21.79	11.03	10.15	11.10	8.68	.52	9.050	6.900
301-08044	8 x 4	5.38	.88	21.79	11.03	15.29	11.10	6.32	.52	9.050	4.800
301-0806	6 x 6	4.78	2.13	21.28	11.72	9.60	8.68	8.68	.47	6.900	6.900
301-08044	6 x 4	4.78	2.13	21.28	11.72	14.83	8.68	6.32	.47	6.900	4.800
301-0404	4 x 4	4.78	1.50	16.75	8.24	6.74	6.32	6.32	.34	4.800	4.800

SPECIFICATIONS:
MATERIALS: ASTM D1784
JOINTS: ASTM D3139
GASKETS: ASTM F-477
THICKNESS: SDR 18

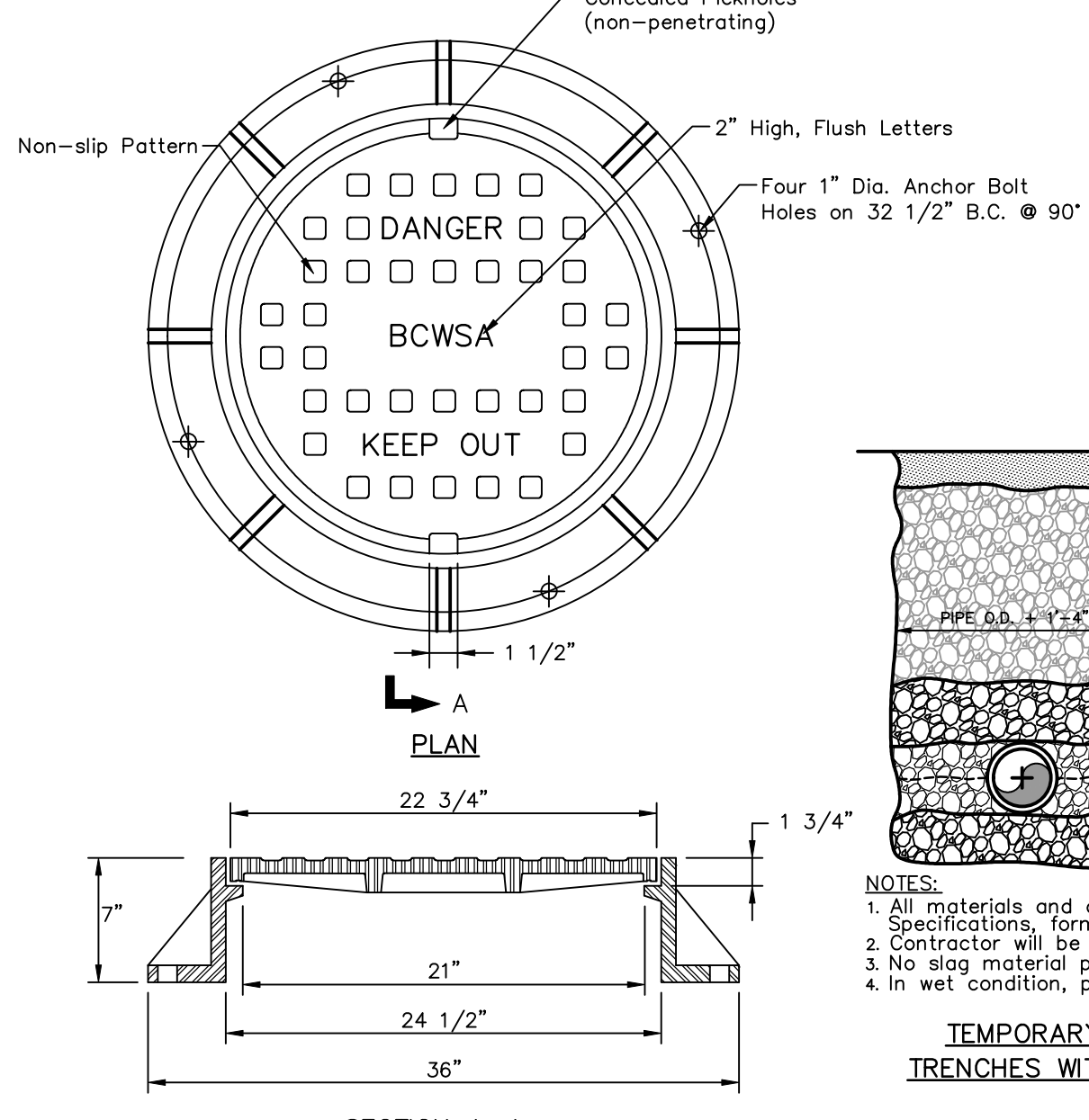
LATERAL WYE

N.T.S.



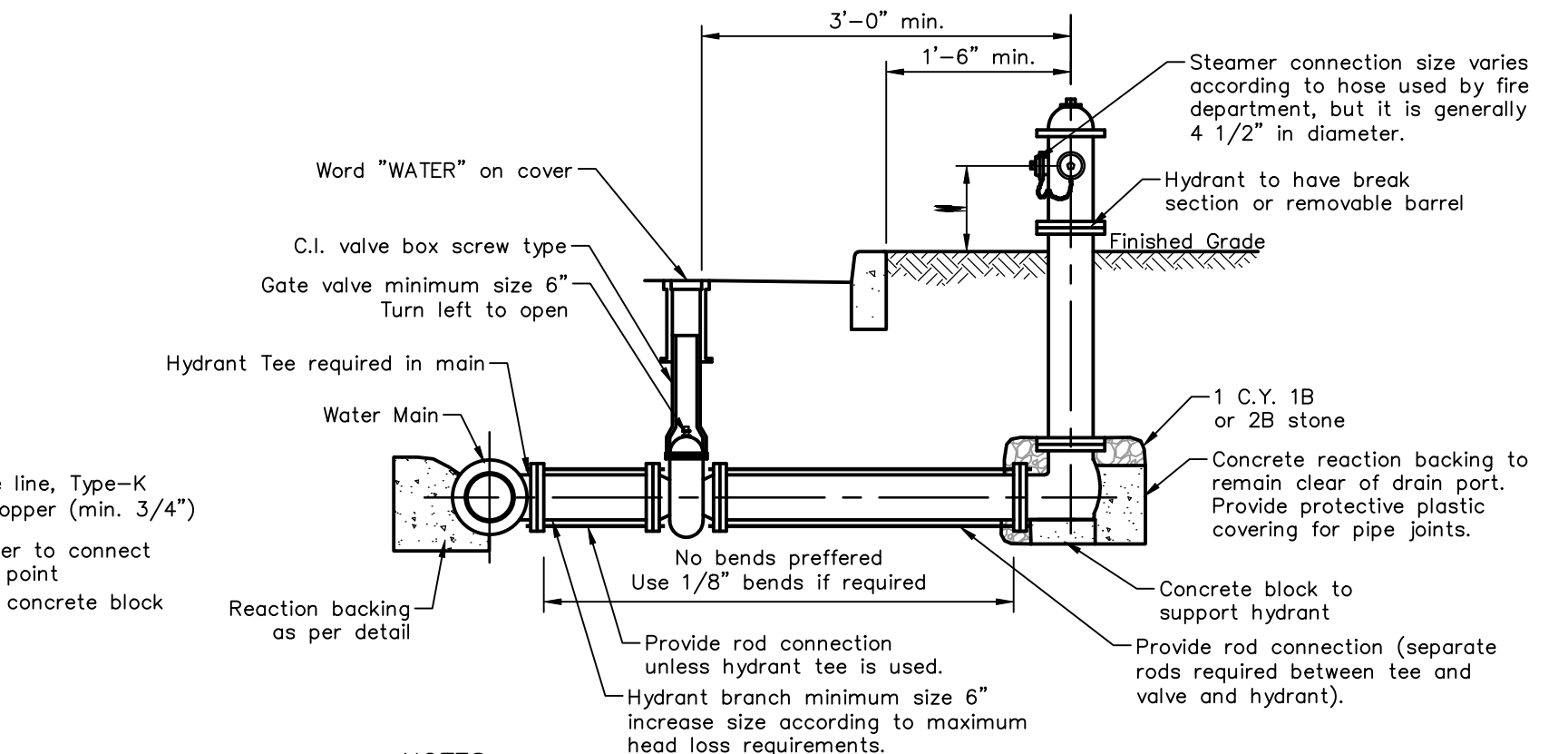
SECTION A-A WATERTIGHT MANHOLE FRAME BOLTED LID

N.T.S.



MANHOLE FRAME, SOLID LID

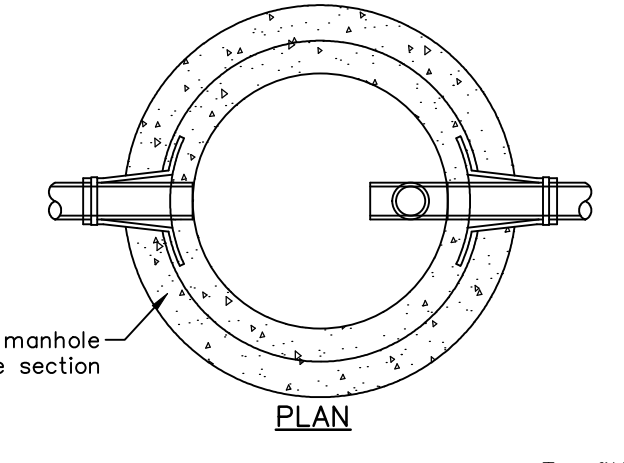
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FIRE HYDRANT DETAIL

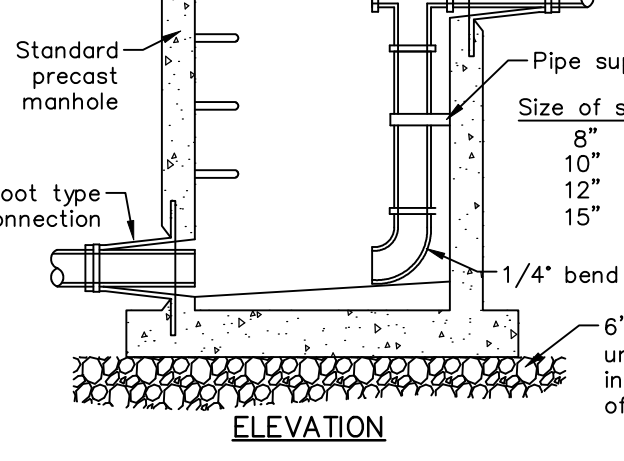
N.T.S.

- NOTES:
1. Maximum head loss 5 lbs. between main and hydrant outlet for 750 gpm flow.
 2. Hydrant to be placed with steam connection facing street @ 1'-6" behind face of curb or E.O.P. (typ.)
 3. Mega-lug required at valve (on hydrant side only, if hydrant tee is utilized) and at hydrant.
 4. All proposed plumbing to be installed in strict accordance with township specifications.
 5. Minimum of 4' of cover over all pipes.
 6. Hydrant to have 5 1/4" seat opening.



STANDARD MANHOLE BASE SECTION

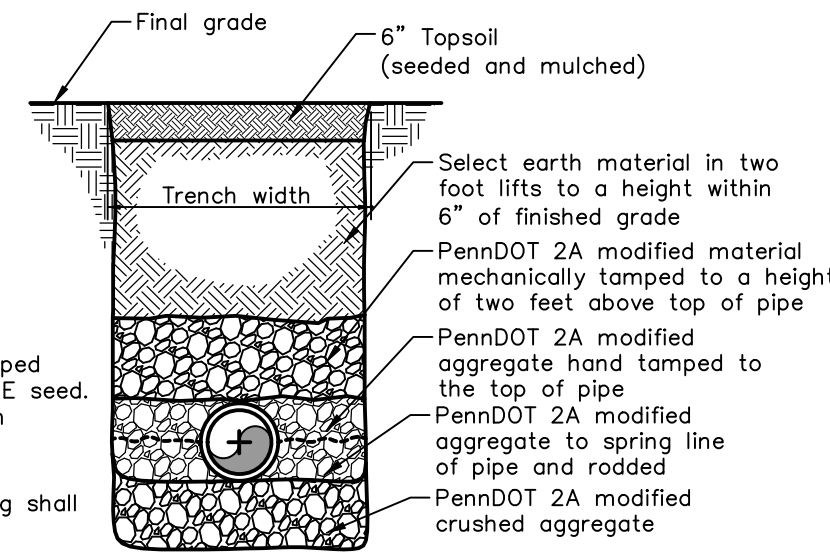
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INSIDE DROP MANHOLE CONNECTION

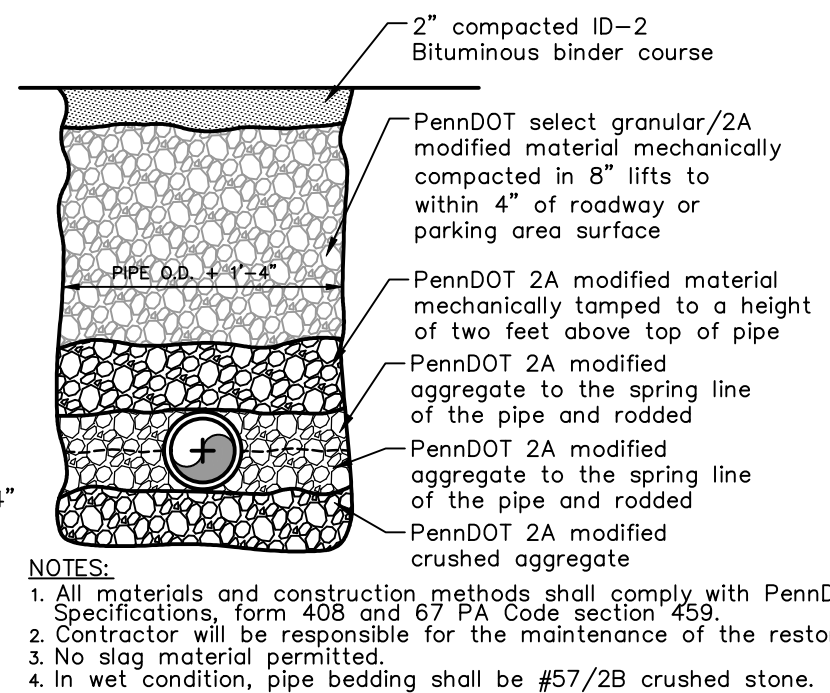
N.T.S.

- NOTES:
1. In low areas, use PennDOT formula B seed. In undeveloped areas, use PennDOT formula E seed.
 2. Seeding season shall conform to PennDOT Form 408.
 3. No slag material permitted.
 4. In wet condition, pipe bedding shall be #57/2B crushed stone.



PERMANENT RESTORATION FOR TRENCHES WITHIN LANDSCAPE AREA

N.T.S.

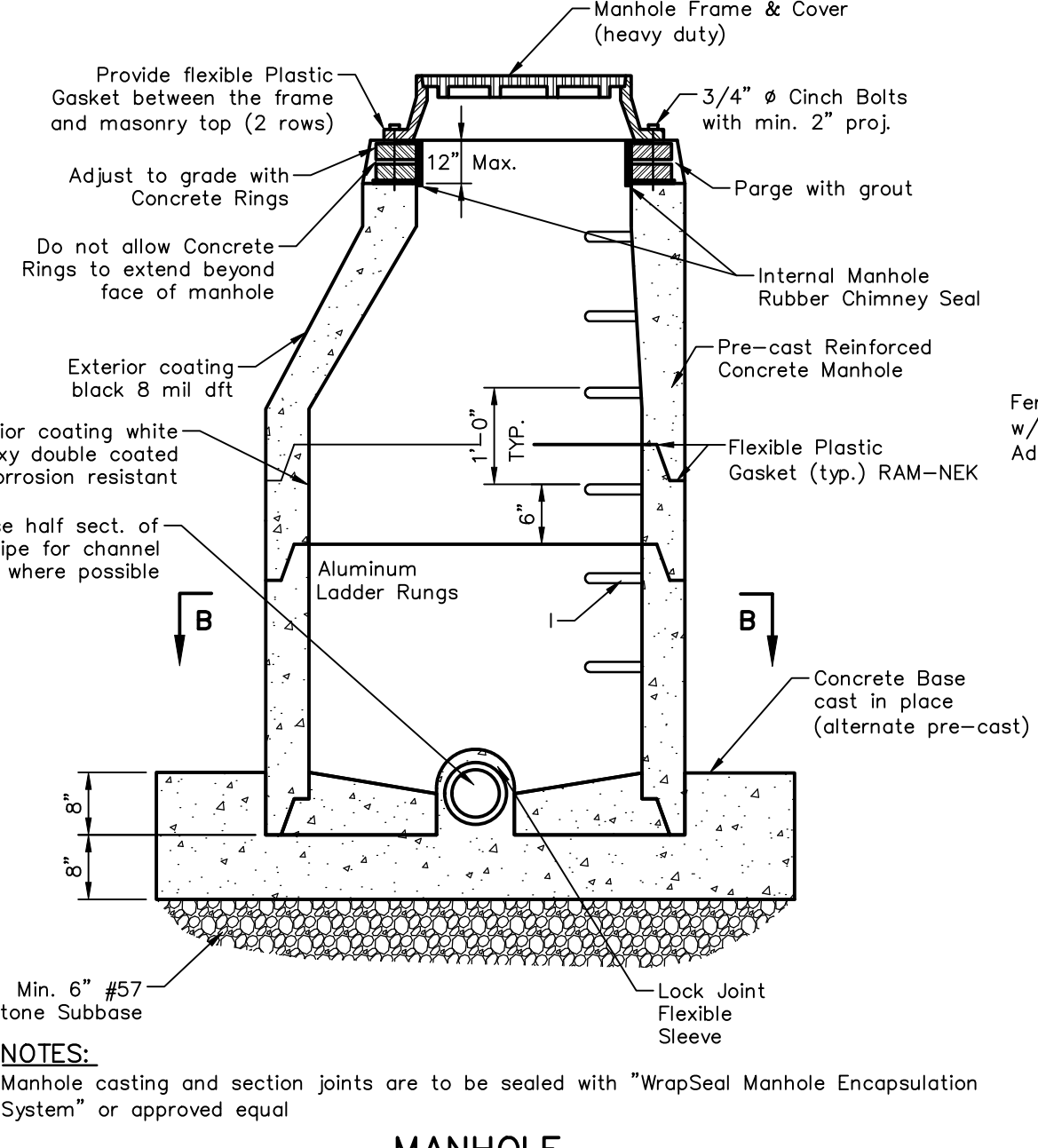


TEMPORARY RESTORATION FOR TRENCHES WITHIN ASPHALT ROADWAY

PERMANENT ROADWAY TRENCH RESTORATION

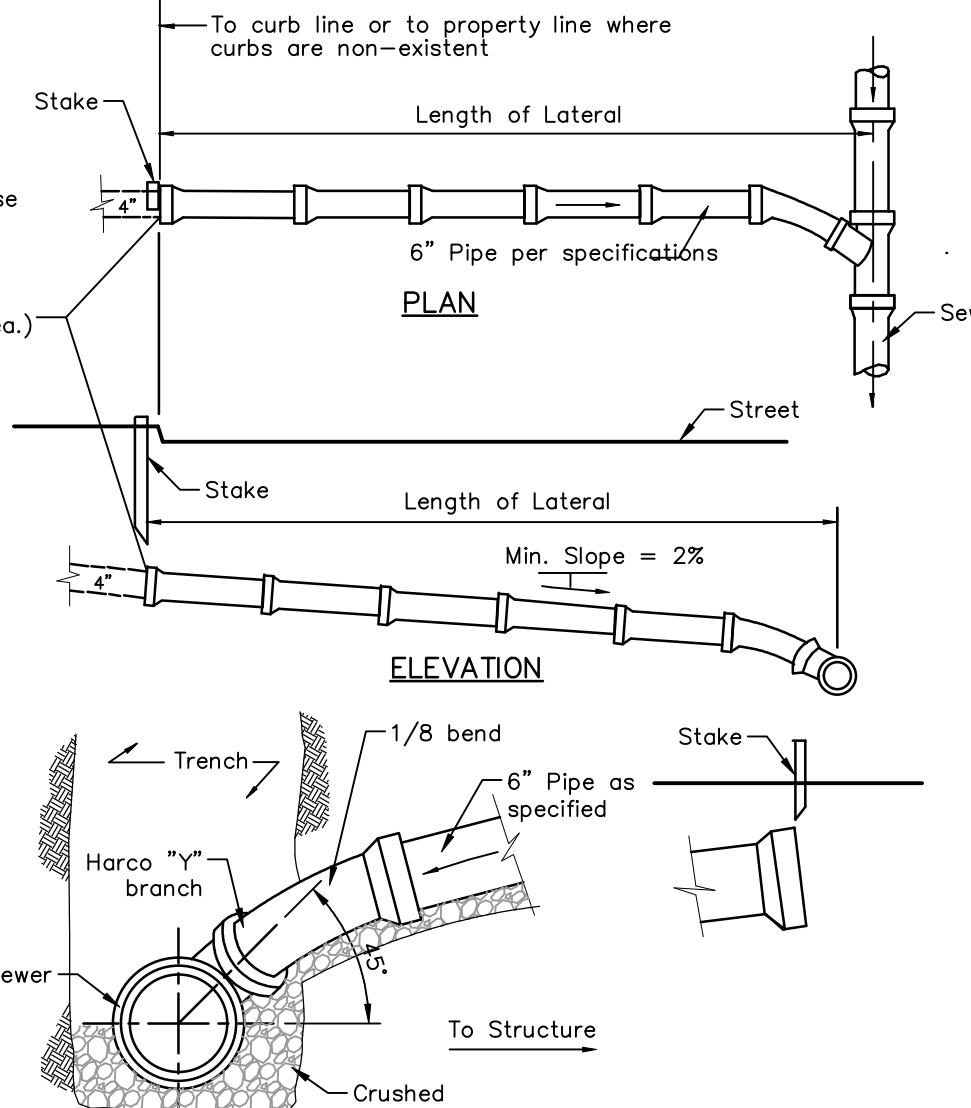
SANITARY SEWER TRENCH DETAILS

N.T.S.



MANHOLE

N.T.S.



TYPICAL LATERAL CONNECTION

N.T.S.

ME Mease Engineering, P.C.
Office (215) 536-7005 Fax (215) 536-8881
516 W. Broad Street Quakertown, PA 18951
PROFESSIONAL ENGINEERING & SURVEYING

CLINTON SUBDIVISION PLAN

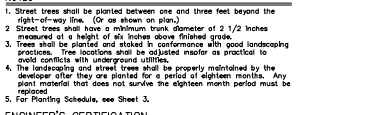
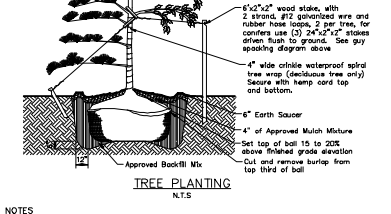
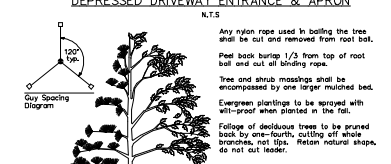
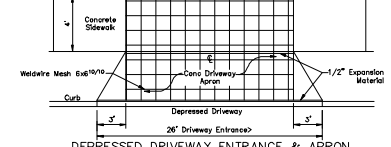
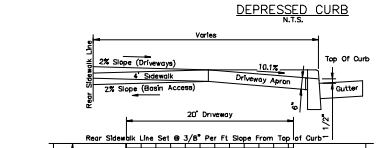
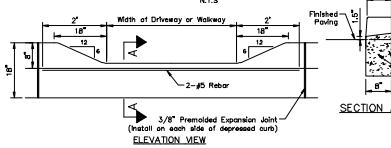
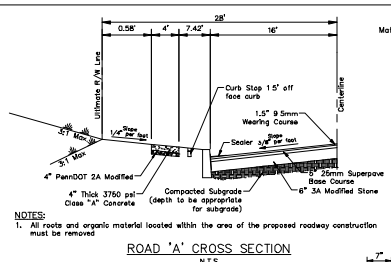
Plumstead Township, Bucks County, Pennsylvania

SCALE: As Noted DRAWN BY: TNF
DATE: 5 Mar. '21 FILE: 20030805

OWNERS OF RECORD: Edward I. & Rose Marie & Daniel E. Clinton
707 Dublin Road Perkasie, PA 18944

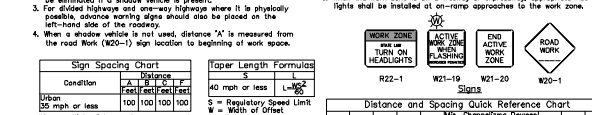
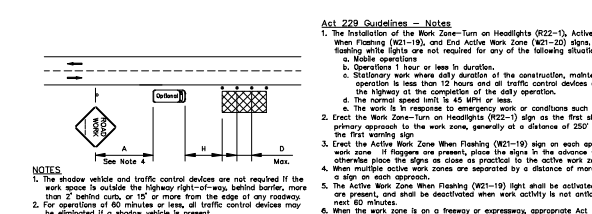
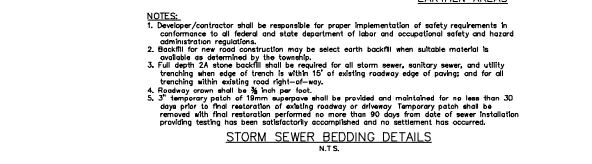
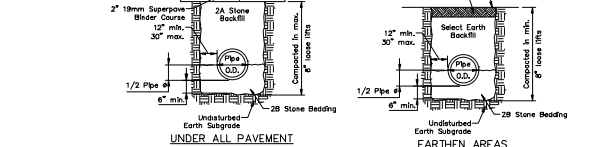
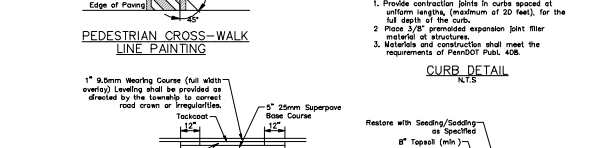
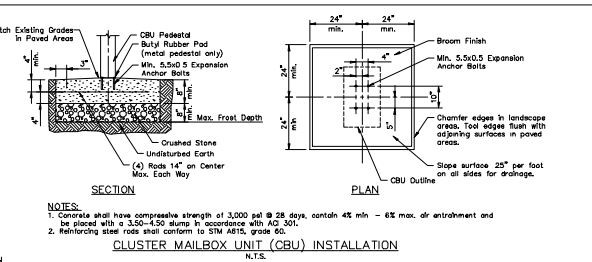
Sanitary Sewer & Water Details SHEET 5 of 10

NO.	DATE	DESCRIPTION	BY
1	04/30/21	Per Review Letter Dated 03/26/21	TNF



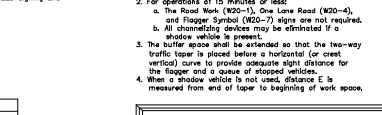
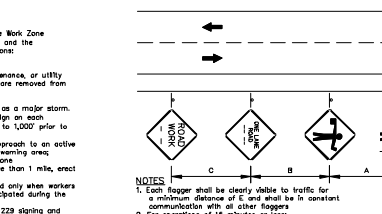
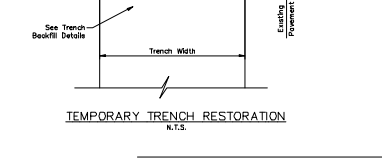
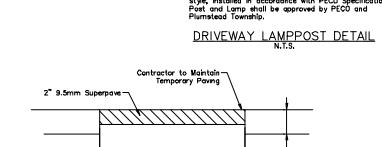
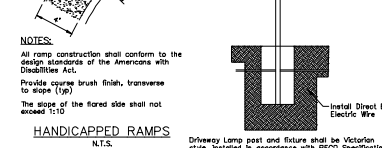
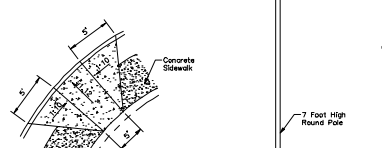
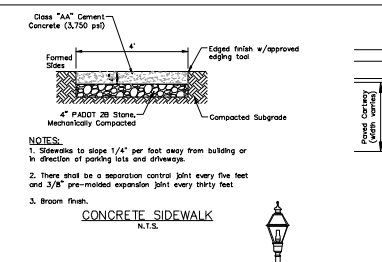
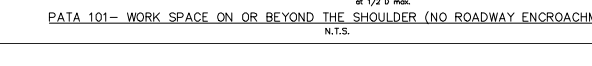
ENGINEER'S CERTIFICATION
I, being a registered engineer in the Commonwealth of Pennsylvania, do hereby certify that the accompanying application, plan, and supporting documentation are true and correct to the best of my knowledge.

Registered Engineer
Registration No. PE036737-E



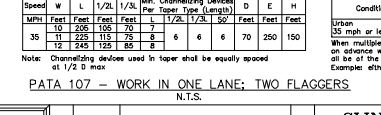
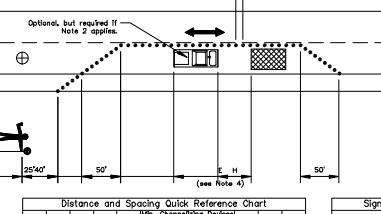
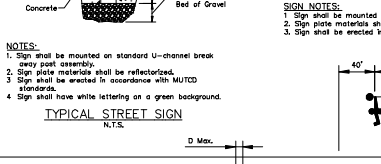
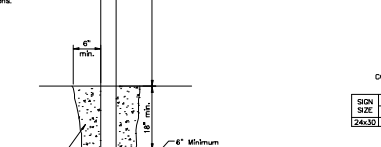
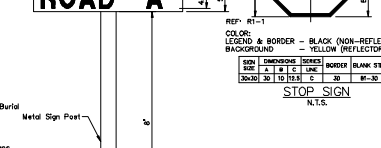
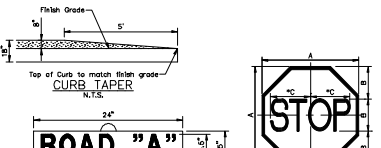
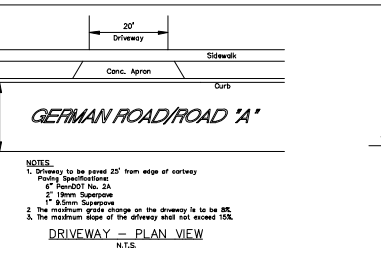
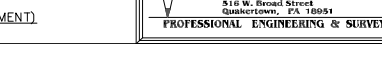
ACT 229 Guidelines - Notes

1. The installation of the Work Zone-Turn on Headlights (R22-1), Active Work Zone when Flashing (W21-19), and End Active Work Zone (W21-20) signs, and the flashing white lights are required for any of the following situations:
a. Mobile operations
b. Operations that last or less in duration
c. Stationary work where daily duration of the construction, maintenance, or utility operation is less than 60 minutes or where traffic control devices are removed from the highway at the completion of the utility operation.
d. The normal speed limit is 45 MPH or less
e. The work is in response to emergency work or conditions such as a major storm.
2. Erect the Work Zone-Turn on Headlights (R22-1) sign as the first sign on each approach to the work zone.
3. Erect the Active Work Zone when Flashing (W21-19) sign on each approach to an active work zone. If flaggers are present, place the sign in the advance warning area; otherwise place the sign as close as practical to the active work zone.
4. When multiple active work zones are separated by a distance of more than 1 mile, erect a sign on each approach.
5. The Active Work Zone when Flashing (W21-19) sign shall be actuated only when workers are present, and shall be deactivated when work activity is not anticipated during the next 60 minutes.
6. When the work zone is on a freeway or expressway, appropriate ACT 229 signing and lights shall be installed at on-ramp approaches to the work zone.

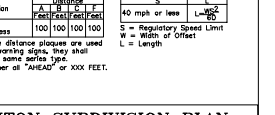
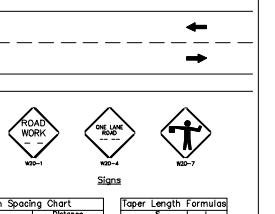
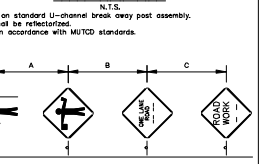
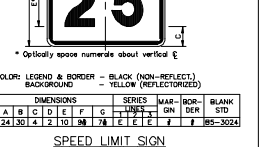
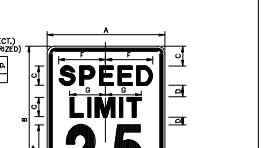
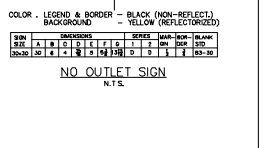
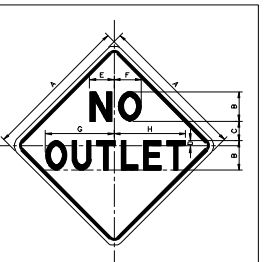
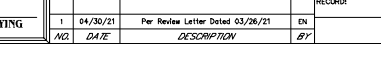


ME Mease Engineering, P.C.
618 W. Broad Street
Shanksville, PA 17095
Professional Engineering & Surveying

Office: (215) 516-2004
Fax: (215) 936-8581



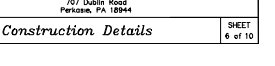
PATA 107 - WORK IN ONE LANE; TWO FLAGGERS
N.T.S.



CLINTON SUBDIVISION PLAN
Plumstead Township, Bucks County, Pennsylvania

SCALE: As Noted
DATE: 5 Mar '21
DWGNO: 20030806
RECORD: Edward L. & Rose Marie & Daniel E. Clinton
707 Dublin Road
Perkasie, PA 18944

DRAWN BY: TNF
FILE: 20030806



RECYCLING OR DISPOSAL OF MATERIALS

The project applicant or co-applicant shall remove from the site, recycle, or dispose of all building materials and wastes in accordance with the Department's Solid Waste Management Regulations at 25 Pa. Code 2801 et seq., and 2807.1 et seq. The contractor shall not illegally bury, dump, or discharge any building material or wastes at the site. Construction wastes for the site will be concrete and excess building materials. The contractor shall use the CWS as shown on the plan (See Concrete Washout Detail on E&S Sheet 2).

POTENTIAL THERMAL IMPACTS

Runoff from the roadway will be collected by the storm sewer system and be conveyed to the stormwater basin. The majority of the runoff will be captured in the infiltration basin or infiltration trench. The remaining runoff will drain over vegetated areas. During construction all runoff from disturbed areas will flow through a silt sock before leaving the site. We anticipate that the proposed development will cause no thermal impact associated with the BMPs.

CLEAN FILL & DUE DILIGENCE NOTE

Applicants and/or operators must use environmental due diligence to ensure that the fill material associated with this project qualifies as Clean Fill. Definitions of Clean Fill and Environmental Due Diligence are provided below. All fill material must be used in accordance with the DEP's policy "Management of Fill", document number 258-2182-773.

Clean Fill is defined as uncontaminated, non-water soluble, non-decomposable, inert, solid material. The term includes soil, rock, stone, dredged material, used asphalt, and brick, block or concrete from construction and demolition activities that is separate from other waste and is recognizable as such. The term does not include materials placed in or on the 3800-PM-600405 Rev. 3/2019 instructions - 3 - waters of the Commonwealth unless otherwise authorized. (The term "used asphalt" does not include milled asphalt or asphalt that has been processed for re-use.)

Clean Fill affected by a spill or release of a regulated substance: Fill materials affected by a spill or release of a regulated substance may still qualify as clean fill if the testing reveals that the fill material contains concentrations of regulated substances that are below the residential limits in Tables FP1a and FP-1b found in DEP's "Management of Fill" policy. Any person placing clean fill that has been affected by a spill or release of a regulated substance must use Form FP-001 to certify the origin of the fill material and the results of the analytical testing to qualify the material as clean fill. Form FP001 must be retained by the owner of the property receiving the fill and must be kept on-site and made available upon request by DEP or authorized conservation district. Failure to produce the form upon request may result in the revoking, suspension or termination of permit coverage. A copy of Form FP-001 can be found at the end of these instructions.

Environmental Due Diligence: Investigative techniques, including, but not limited to, visual property inspections, electronic data base searches, review of property ownership, review of property use history, Sanborn maps, environmental questionnaires, transaction screens, analytical testing, environmental assessments or audits. Analytical testing is not a required part of due diligence unless visual inspection and/or review of the past land use of the property indicates that the fill may have been subjected to a spill or release of regulated substance. If the fill may have been affected by a spill or release of a regulated substance, it must be tested to determine if it qualifies as clean fill. Testing should be performed in accordance with Appendix A of DEP's "Management of Fill" policy. Fill material that does not qualify as clean fill is regulated fill. Regulated fill is waste and must be managed in accordance with DEP's residual or municipal waste regulations in 25 Pa. Code Chapters 287 Residual Waste Management or 271 Municipal Waste Management, whichever is applicable.

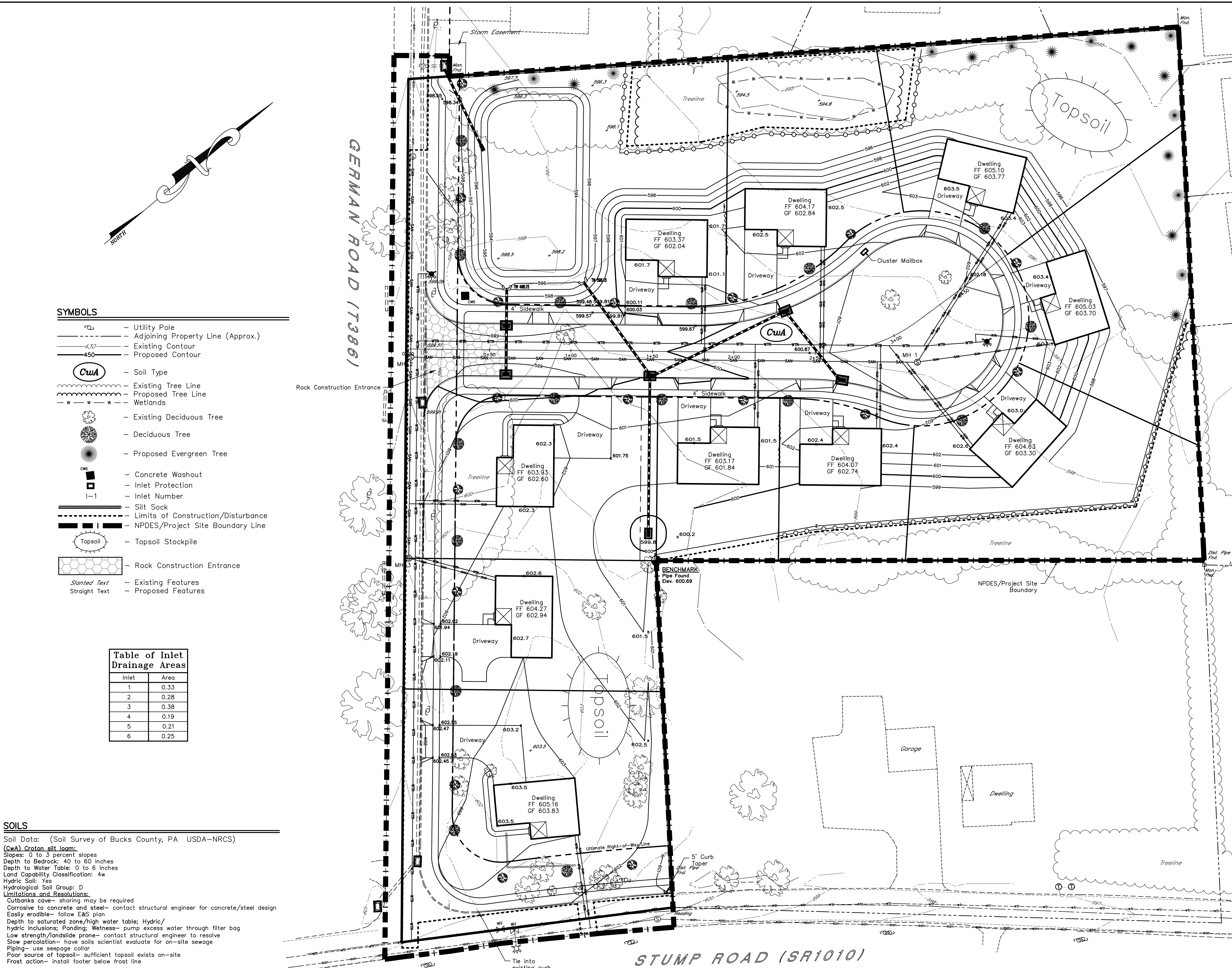
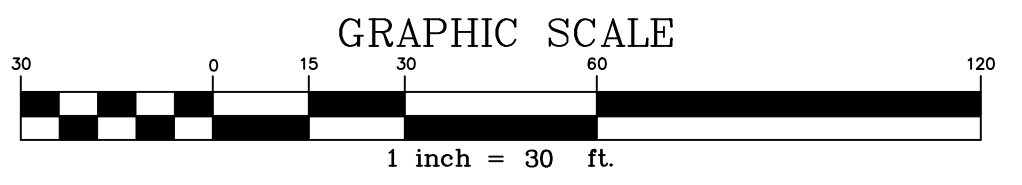
CONSTRUCTION SEQUENCE

(Anticipated site work schedule: Begin 2/22 End 2/23)

1. Install rock construction entrance and silt sock 1. All erosion and sediment controls must be constructed, stabilized, and functional before beginning earth disturbance within the tributary areas of these controls. The limits of disturbance shall be field marked prior to beginning any earth disturbance. The immediate cessation of activity on any disturbed area shall require temporary stabilization consisting of temporary seed and mulch.
2. Remove any existing impervious surfaces that are to be removed within the limits of disturbance.
3. Strip topsoil from the BMP and roadway area. Stockpile topsoil and stabilize with temporary seed mixture and mulch.
4. Perform roadway and BMP excavation, install utilities, sidewalk, curb, driveway aprons stormwater inlets and piping, and install stone base for Road A. Inlet protection must be installed immediately after inlet installation. (Refer to the PCSM plans for construction specifications and details).
5. Steps 6 to 8 involve the construction on the individual lots and can be performed simultaneously with step 4.
6. Strip topsoil, install driveway base course and excavate for the building foundation for individual lot. Stockpile topsoil and stabilize with temporary seed mixture and mulch.
7. Backfill building foundation, rough grade the site to proposed contours and stabilize with temporary seed mixture. Finish installing utilities and install driveway lamp posts.
8. Finish driveway and roadway construction.
9. Construct the rain garden (see BMP detail on Sheet 10 for BMP construction sequence).
10. Remove concrete wash area upon completion of concrete work.
11. Install street trees, finish grade around dwellings, spread topsoil, seed and mulch all disturbed areas. (All topsoil placement shall be a minimum of 8" thick)
12. All erosion and sediment pollution (E&SP) controls must be properly maintained and cleaned of sediment or replaced and when necessary, UNTIL THE SITE IS STABILIZED. (A permanently stabilized site shall mean 95% uniform vegetative cover).
13. Allow silt socks to remain until ground cover is established on disturbed areas.
14. When topsoil piles are removed, seed and mulch the area. Maintain topsoil stockpile silt fence mulch until area is stabilized.
15. Areas that fail to germinate must be reseeded. Seeded areas that wash out must be filled and graded as necessary and then reseeded. North American Green S150 geotextile matting shall be used to hold seed/mulch in place.
16. If at any time prior to site stabilization any erosion or sediment pollution problems occur which require additional controls, immediate action must be taken to correct the problems.
17. Remove all temporary BMP's when the site is stabilized and upon approval of said stabilization by the Bucks County Conservation District. Immediately repair and permanently stabilize all disturbed areas associated with the removal of E & S BMPs.
18. Submit Notice of Termination and as-built plan to Bucks County Conservation District.

SITE SPECIFIC NOTES

1. Contour Datum: Based on field surveys performed by Mease Engineering, P.C. in October 2020 and January 2021 and is based on NAVD 1988.
2. All users of this plan are referred to and cautioned to comply with PA Act 287 as amended by PA Act 172, HB 2543, enacted 06-10-1987, and by PA HB 722, P.L. 364, Act 38, enacted 12-12-1991, and by PA HB 2627, Act 187, effective 12-19-95, and by PA Act 199, P.L. 1567, enacted 11-30-2004, and by PA Act 181, P.L. 1593, enacted 11-29-2006.
3. This plan contains information pertaining to underground utilities which is for general information only, and are not based on an actual subsurface location survey. All subsurface information shown on this plan needs to be verified by the plan user. The preparer of this plan assumes no responsibility for and makes no representations or warranties as to the accuracy of the location of underground utilities or other underground features. Repair of damages to any underground utilities, structures, and appurtenances will be the sole responsibility of the contractor, and at the contractor's expense.
4. All paving, earthwork and concrete work shall be supplied and constructed in accordance with Pennsylvania Department of Transportation (PennDOT) specifications, Publication 408, latest edition, and shall also conform to all local building codes.
5. Proposed utilities shall be installed in accordance with all utility company and local building code requirements.
6. Any relocated utility services shall be run underground from existing overhead services.
7. The contractor performing the work is responsible for contacting "PA ONE CALL" (1-800-242-1776) for location of all underground lines at least one week prior to the beginning of construction.
8. If any conflicts, discrepancies, or other unsatisfactory conditions are discovered, either on the construction documents or the field conditions, the contractor must notify the owner or project engineer immediately and shall not commence operations until the conflicts, discrepancies, or other unsatisfactory conditions are resolved.
9. The NPDES applicant is Edward Clinton. The applicant shall be responsible for the operation, maintenance, repair, reconstruction and/or replacement of the stormwater management facilities.



SYMBOLS

- Utility Pole
- Adjoining Property Line (Approx.)
- Existing Contour
- Proposed Contour
- Soil Type
- Existing Tree Line
- Proposed Tree Line
- Wetlands
- Existing Deciduous Tree
- Deciduous Tree
- Proposed Evergreen Tree
- Concrete Washout
- Inlet Protection
- Inlet Number
- Silt Sock
- Limits of Construction/Disturbance
- NPDES/Project Site Boundary Line
- Topsoil Stockpile
- Rock Construction Entrance
- Existing Features
- Proposed Features

Inlet	Area
1	0.33
2	0.28
3	0.38
4	0.19
5	0.21
6	0.25

SOILS

Soil Data: (Soil Survey of Bucks County, PA USDA-NRCS)
 (CWA) Croton silt loam
 Slopes: 0 to 3 percent slopes
 Depth to Bedrock: 40 to 60 inches
 Depth to Water Table: 0 to 6 inches
 Land Capability Classification: 4w
 Hydric Soil: Yes
 Hydrological Soil Group: D
Limitations and Resolutions:
 Outbanks cover- shoring may be required
 Corrosive to concrete and steel- contact structural engineer for concrete/steel design
 Easily erodible- follow E&S plan
 Depth to saturated zone/high water table; Hydric/hydric inclusions; Ponding; Wetness- pump excess water through filter bag
 Low strength/landslide prone- contact structural engineer to resolve
 Slow percolation- have soils scientist evaluate for on-site sewage
 Piping- use seepage collar
 Poor source of topsoil- sufficient topsoil exists on-site
 Frost action- install footer below frost line

ENGINEER'S CERTIFICATION

I, being a registered engineer in the Commonwealth of Pennsylvania, do hereby certify that the accompanying application, plans, and supporting documentation are true and correct to the best of my knowledge.

Registered Engineer
 Registration No. PE036737-E

CALL BEFORE YOU DIG!
 PENNSYLVANIA LAW REQUIRES
 3 WORKING DAYS NOTICE
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STOP!! CALL!!
 PENNSYLVANIA ONE CALL SYSTEM
 1-800-242-1776
 PROJECT SERIAL NO.

ME Mease Engineering, P.C.
 Office (215) 536-7005
 Fax (215) 536-8581
 516 W. Broad Street
 Quakertown, PA 18951
PROFESSIONAL ENGINEERING & SURVEYING

NO.	DATE	DESCRIPTION	BY
1	04/30/21	Per Review Letter Dated 03/26/21	TNF

CLINTON SUBDIVISION PLAN
 Plumstead Township, Bucks County, Pennsylvania
 SCALE: 1" = 30'
 DATE: 5 Mar. '21
 OWNERS OF RECORD: Edward I. & Rose Marie & Daniel E. Clinton
 707 Dublin Road
 Perkasie, PA 18944
Erosion and Sedimentation Control Plan
 SHEET 7 of 10

TABLE 4.2 Compost Standards

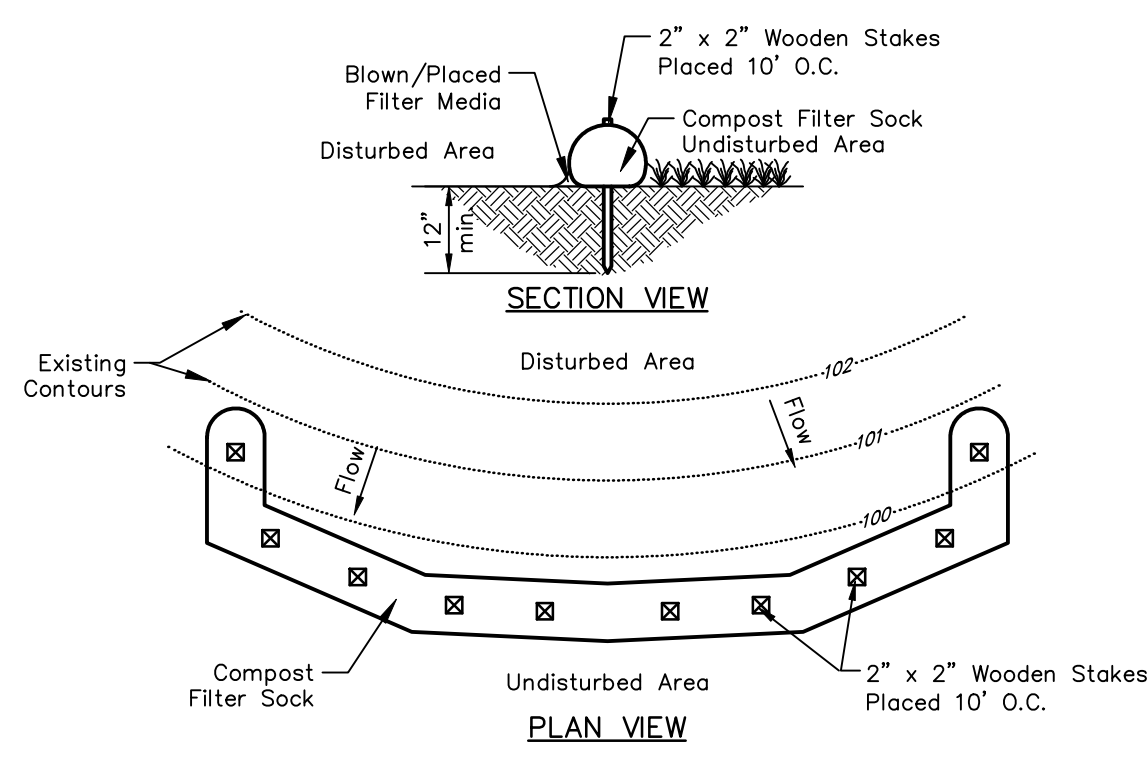
Organic Matter Content	25% - 100% (dry weight basis)
Organic Portion	Fibrous and elongated
pH	5.5 - 8.5
Maturity Content	30% - 60%
Particle Size	30% - 50% pass through 3/8" sieve
Soluble Salt Concentration	5.0 ds/m (mmhos/cm) Maximum

TABLE 4.1 Compost Sock Fabric Minimum Specifications

Material Type	3 mil HDPE	5 mil HDPE	5 mil HDPE	Multi-Filament Polypropylene (MFPP)	Heavy Duty Multi-Filament Polypropylene (MFPP)
Material Characteristics	Photo-degradable	Photo-degradable	Bio-degradable	Photo-degradable	Photo-degradable
Sock Diameters	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"
Mesh Opening	3/8"	3/8"	3/8"	3/8"	1/8"
Tensile Strength		26 psi	26 psi	44 psi	202 psi
Ultraviolet Stability % Original Strength (ASTM G-155)	23% at 1000 hr.	23% at 1000 hr.		100% at 1000 hr.	100% at 1000 hr.
Minimum Longevity	6 months	9 months	6 months	1 year	2 years

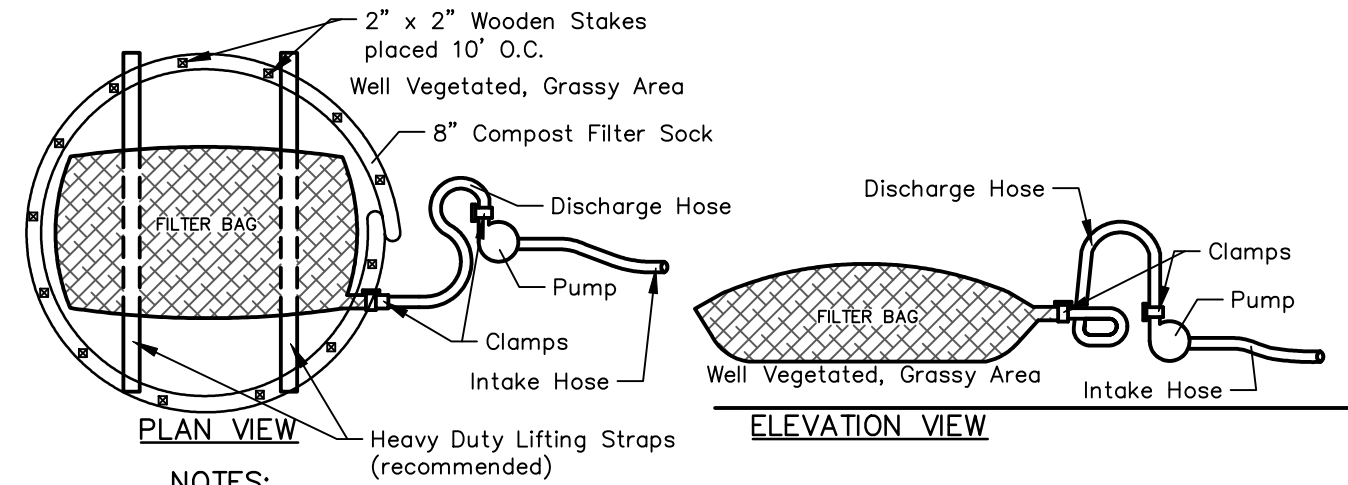
Two-ply Systems

Inner Containment Netting	HDPE biaxial net
	Continuously wound
Outer Filtration Mesh	Fusion-welded junctures
	3/4" x 3/4" Max. aperture size
Composite Polypropylene Fabric (woven layer and non-woven fleece mechanically fused via needle punch)	
3/16" Max. aperture size	
Sock fabrics composed of burlap may be used on projects lasting 6 months or less.	



- NOTES:**
- Sock fabric shall meet the standards of Table 4.1. Compost shall meet the standards of Table 4.2.
 - Compost filter sock shall be placed at existing level grade. Both ends of the sock shall be at least 8 feet upslope at 45° to the main sock alignment. Stakes may be installed immediately downslope of the sock if so specified by the manufacturer.
 - Traffic shall not be permitted to cross filter socks.
 - Accumulated sediment shall be removed when it reaches half the above ground height of the sock and disposed in the manner described elsewhere on the plan.
 - Socks shall be inspected weekly and after each runoff event. Damaged socks shall be repaired according to manufacturer's specifications or replaced within 24 hours of inspection.
 - Biodegradable filter socks shall be replaced after 6 months; photodegradable socks after 1 year. Polypropylene socks shall be replaced according to manufacturer's recommendations.
 - Upon stabilization of the area tributary to the sock, stakes shall be removed. The sock may be left in place and vegetated or removed. In the latter case, the mesh shall be cut open and the mulch spread as a soil supplement.

STANDARD CONSTRUCTION DETAIL #4-1 COMPOST FILTER SOCK
N.T.S.

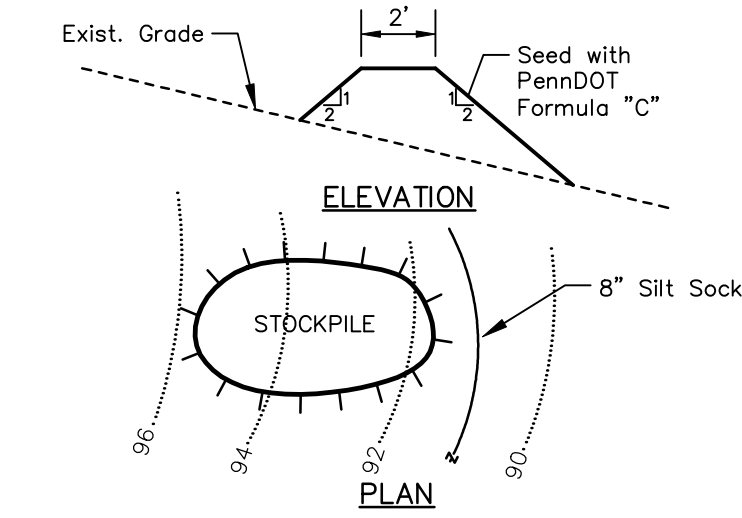


- NOTES:**
- Low volume filter bags shall be made from non-woven geotextile material sewn with high strength, double stitched "J" type seams. They shall be capable of trapping particles larger than 150 microns. High volume filter bags shall be made from woven geotextiles that meet the following standards:

Property	Test Method	Minimum Standard
Avg. Wide Width Strength	ASTM D-4884	60 lb/in
Grab Tensile	ASTM D-4632	205 lb
Puncture	ASTM D-4633	110 lb
Mullen Burst	ASTM D-3786	350 PSI
UV Resistance	ASTM D-4355	70%
AOS % Retained	ASTM D-4751	80 Sieve

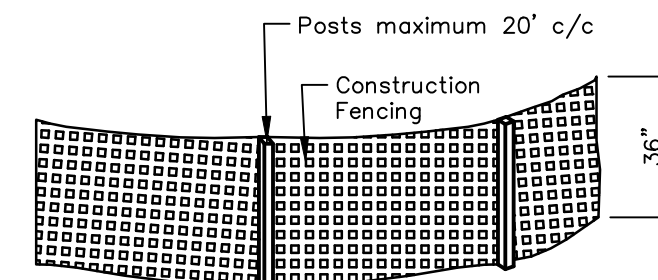
- A suitable means of accessing the bag with machinery for disposal purposes shall be provided. Filter bags shall be replaced when they become 1/2 full of sediment. Spare bags shall be kept available for replacement of those that have failed or are filled.
 - Bags shall be located in well-vegetated (grassy) areas, and discharge onto stable, erosion resistant areas. 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 placed on slopes greater than 5%. For slopes exceeding 5%, clean rock or other non-erodible and non-polluting material may be placed under the bag to reduce slope steepness.
 - 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 pump discharge hose shall be inserted into the bags in the manner specified by the manufacturer and securely clamped. A piece of PVC pipe is recommended for this purpose.
 - 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.
 - Filter bags shall be inspected daily. If any problem is detected, pumping shall cease immediately and not resume until the problem is corrected.
- ADDITIONAL FILTER BAG NOTES: (FOR HQ & EV WATERSHEDS ONLY)**
- Because this site is located in an "exceptional value" watershed the use of a sediment filter bag is prohibited unless it used in conjunction with either a perimeter silt sock or situated in a sumped pit.
 - Sediment removed from BMP's shall be disposed of on-site in landscaped grass outside of steep slopes, wetlands, floodplains or drainage swales and immediately stabilized or placed in soil stockpiles and stabilized.

STANDARD CONSTRUCTION DETAIL #3-16 PUMPED WATER FILTER BAG
N.T.S.



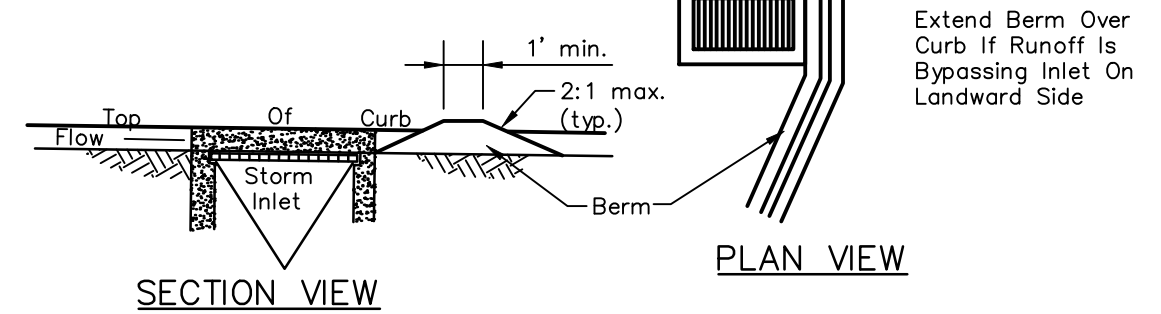
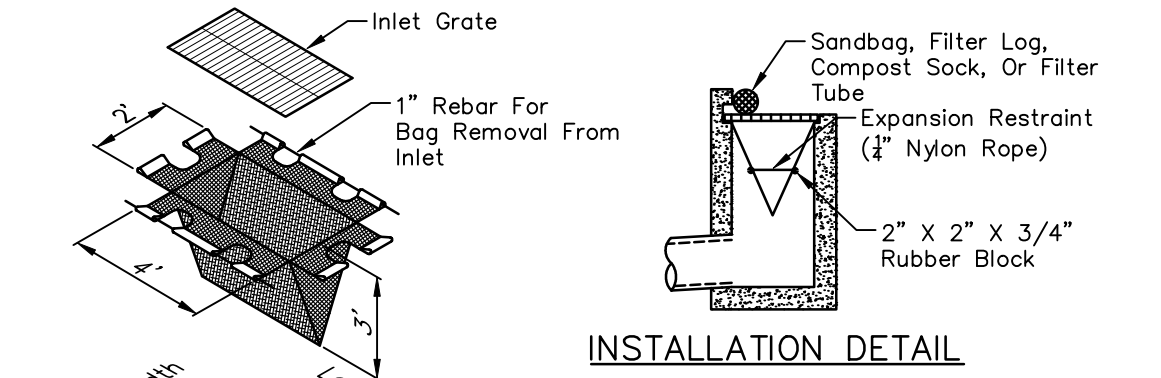
- NOTES:**
- Install silt fence downstream of area of stockpile.
 - Place stockpile in areas shown on this drawing without blocking natural drainage patterns.
 - Follow dimensions shown above. Height should not exceed 3'. Side slopes should not be steeper than 2H:1(V).
 - Seed immediately with PennDOT seeding formula "C".

TOPSOIL STOCKPILES & MAINTENANCE
N.T.S.



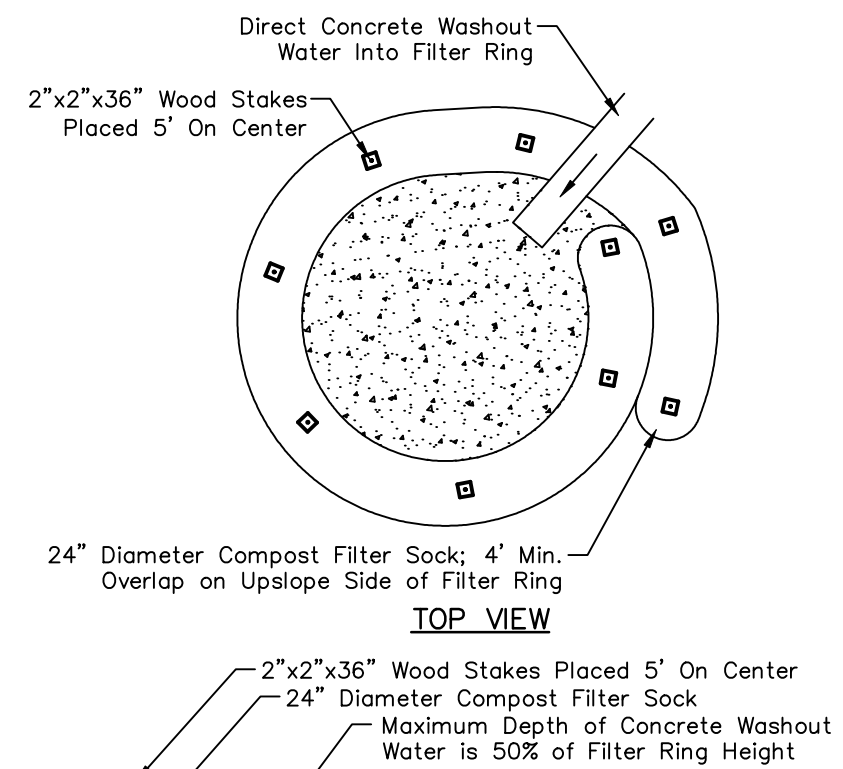
- NOTE:**
- Tree protection fence shall be placed the greater of 15' from the trunk of the tree or to the canopy drip line.

TREE PROTECTION FENCE
N.T.S.



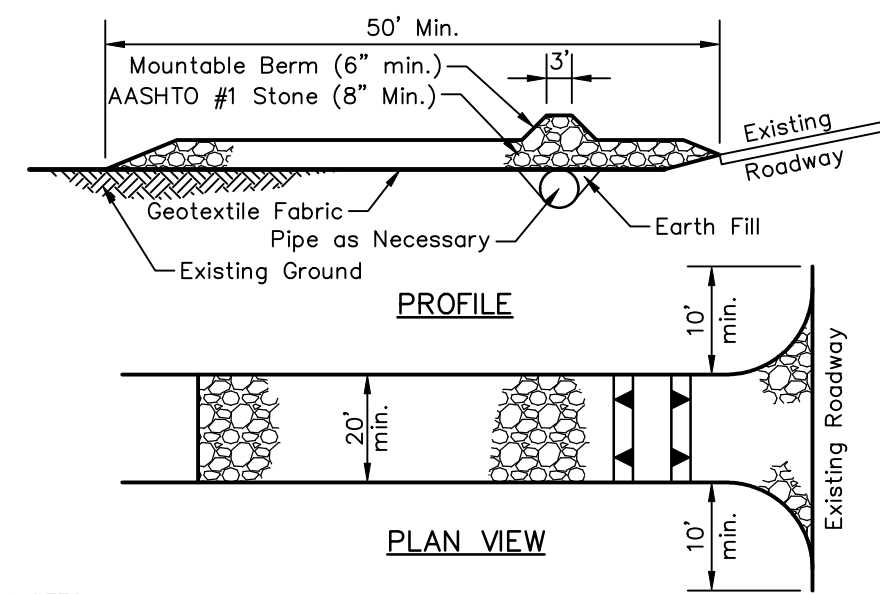
- Notes:**
- Maximum drainage area = 1/2 acre.
 - Inlet protection shall not be required for inlet tributary to sediment basin or trap. Berms shall be required for all installations.
 - Rolled earthen berm shall be maintained until roadway is stoned. Road subbase berm shall be maintained until roadway is paved. Six inch minimum height asphalt berm shall be maintained until roadway surface receives final coat.
 - At a minimum, the fabric shall have a minimum grab tensile strength of 120 lbs, a minimum burst strength of 200 psi, and a minimum trapezoidal tear strength of 50 lbs. Filter bags shall be capable of trapping all particles not passing a no. 40 sieve.
 - Inlet filter bags shall be inspected on a weekly basis and after each runoff event. Bags shall be emptied and rinsed or replaced when half full or when flow capacity has been reduced so as to cause flooding or bypassing of the inlet. Damaged or clogged bags shall be replaced. A supply shall be maintained on site for replacement of bags. All needed repairs shall be initiated immediately after the inspection. Dispose of accumulated sediment as well as all used bags according to the plan notes.
 - Do not use on major paved roadways where ponding may cause traffic hazards.

STANDARD CONSTRUCTION DETAIL #4-15 FILTER BAG INLET PROTECTION - TYPE C INLET
N.T.S.



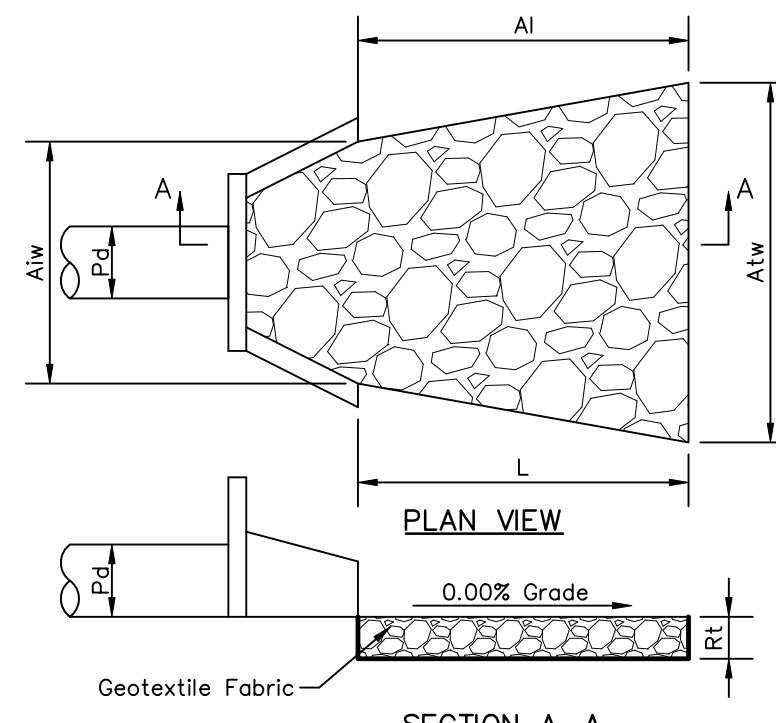
- NOTES:**
- Do not place concrete washout facility within 50 feet of storm drains, open ditches, or water bodies.
 - Check concrete washout facility daily to determine if they have been filled to 50% full.
 - When the washout is nearing capacity, remove hardened concrete, vacuum and dispose of liquids in an approved manner. Do not discharge liquids to waterways, storm drains, or directly onto the ground.
 - When materials are removed from the washout make any necessary repairs.
 - Install on flat grade for optimum performance.
 - 18" diameter filter sock may be stacked onto double 24" diameter socks in pyramidal configuration for added height.
 - A suitable impervious geomembrane shall be placed at the location of the washout prior to installing the socks.

STANDARD CONSTRUCTION DETAIL #3-18 CONCRETE WASHOUT
N.T.S.



- NOTES:**
- Remove topsoil prior to installation of rock construction entrance.
 - Extend rock over full width of entrance.
 - Runoff shall be diverted from roadway to a suitable sediment removal BMP prior to entering rock construction entrance.
 - Mounable berm shall be installed wherever optional culvert pipe is used and proper pipe cover as specified by manufacturer is not otherwise provided. Pipe shall be sized appropriately for size of ditch being crossed.
- Maintenance:** Rock construction entrance thickness shall be constantly maintained to the specific dimensions by adding rock. A stockpile of rock material shall be maintained on site for this purpose. All sediment deposited onto paved roadways shall be removed and returned to the construction site immediately. If excessive amounts of sediment are being deposited on the roadway, extend the length of the rock construction entrance by 50' increments until condition is alleviated or install wash rock. Washing the roadway or sweeping the deposits into roadway ditches, sewers, culverts, or other drainage courses is not acceptable.
- Street Sweeping:** Roads will be swept daily with a vacuum sweeper or sweeper with a catch bin attachment.

STANDARD CONSTRUCTION DETAIL #3-1 ROCK CONSTRUCTION ENTRANCE
N.T.S.



Outlet No.	Pipe Diameter (in)	100 Yr. Flow (cfs)	Rip-Rap		Apron	
			Size (R-)	Thickness Rt (in)	Length At (ft)	Terminal Width Atw (ft)
EW-1	15	4.85	R-4	15	6	3.75
EW-2	15	4.12	R-4	15	6	3.75

- NOTES:**
- All aprons shall be constructed to the dimensions shown. Terminal widths shall be adjusted as necessary to match receiving channels.
 - All aprons shall be inspected at least weekly and after each runoff event. Displaced rip-rap within the apron shall be replaced immediately.

STANDARD CONSTRUCTION DETAIL #9-1 RIP-RAP APRON AT ENDWALL
N.T.S.

EROSION & SEDIMENTATION CONTROL BMP INSPECTION/MAINTENANCE SCHEDULE			
TYPE OF BMP	MAINTENANCE ACTIVITY	FREQUENCY	CLEAN-OUT LEVEL
Rock Construction Entrance	1. Check for appropriate thickness of stone	Daily	
	2. Street sweeping on Kesslersville Road & parking lot areas	Daily	N/A
Silt Sock	1. Check for sediment level 2. Inspect to ensure that BMP is not compromised	After every storm event After every storm event	When accumulations reach 1/2 the above ground height
Inlet Protection	1. Check for sediment level	After every storm event	When accumulations reach a depth equal to 1/2 the depth of the sock

Note: For additional maintenance information pertaining to the individual BMPs, refer to each BMP's respective detail.

ENGINEER'S CERTIFICATION

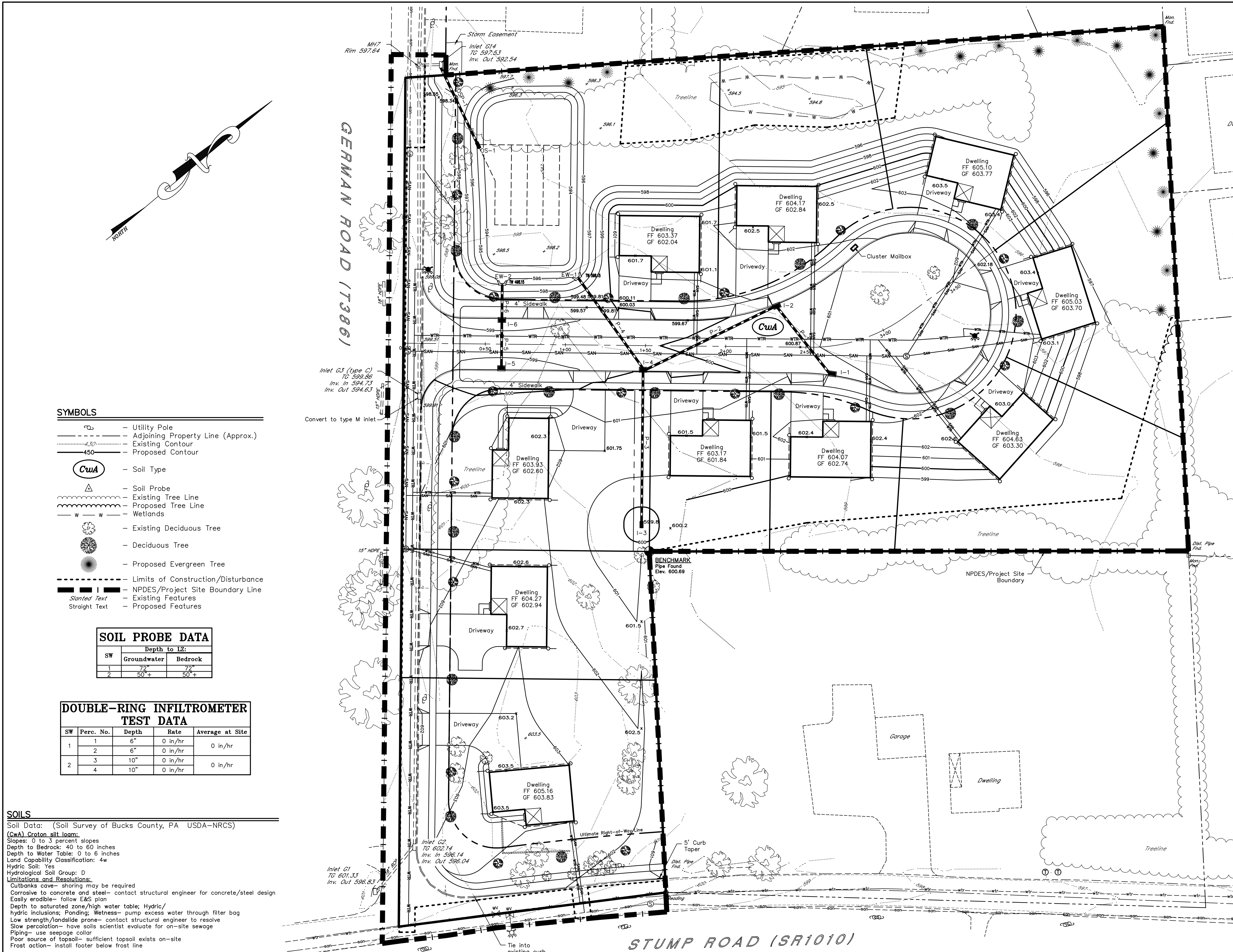
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Registered Engineer
Registration No. PE036737E

ME Mease Engineering, P.C.
Office (215) 536-7005
Fax (215) 536-8881
516 W. Broad Street
Quakertown, PA 18951
PROFESSIONAL ENGINEERING & SURVEYING

NO.	DATE	DESCRIPTION	BY
1	04/30/21	Per Review Letter Dated 03/26/21	TNF

CLINTON SUBDIVISION PLAN
Plumstead Township, Bucks County, Pennsylvania
SCALE: As Noted
DATE: 5 Mar. '21
DRAWN BY: TNF
FILE: 20030808
OWNERS OF RECORD: Edward L. & Rose Marie & Daniel E. Clinton
707 Dublin Road
Perkasie, PA 18944
Erosion and Sedimentation Control Details
SHEET 8 of 10



RECYCLING OR DISPOSAL OF MATERIALS

The project applicant or co-applicant shall remove from the site, recycle, or dispose of all building materials and wastes in accordance with the Department's Solid Waste Management Regulation at 25 Pa. Code 2801 et seq. and 2871 et seq. The contractor shall not illegally bury, dump, or discharge any building material or wastes at the site. Construction wastes for the site will be concrete and/or masonry materials. The contractor shall use the CWS as shown on the plan (See Concrete Washout Detail on E&S Details Sheet).

POTENTIAL THERMAL IMPACTS

All site runoff from the proposed impervious surfaces will flow overland or drain to the rain garden prior to draining off site. We anticipate the proposed development will cause no thermal impacts.

CLEAN FILL & DUE DILIGENCE NOTE

Applicants and/or operators must use environmental due diligence to ensure that the fill material associated with this project qualifies as Clean Fill. Definitions of Clean Fill and Environmental Due Diligence are provided below. All fill material must be used in accordance with the DEP's policy "Management of Fill", document number 258-2182-773.

Clean Fill is defined as uncontaminated, non-water soluble, non-decomposable, inert, solid material. The term includes soil, rock, stone, dredged material, used asphalt, and brick, block or concrete from construction and demolition activities that is separate from other waste and is recognizable as such. The term does not include materials placed in or on the 3805PA-BW4040 Rev. 3/2019 instruction - 3 - waters of the Commonwealth unless otherwise authorized. (The term "used asphalt" does not include milled asphalt or asphalt that has been processed for re-use.)

Clean Fill affected by a spill or release of a regulated substance: Fill materials affected by a spill or release of a regulated substance may still qualify as clean fill if the testing reveals that the fill material contains concentrations of regulated substances that are below the residential limits in Tables FP1a and FP-1b found in DEP's "Management of Fill" policy. Any person placing clean fill that has been affected by a spill or release of a regulated substance must use Form FP-001 to certify the origin of the fill material and the results of the analytical testing to qualify the material as clean fill. Form FP001 must be retained by the owner of the property receiving the fill and must be kept on-site and made available upon request by DEP or authorized conservation district. Failure to produce the form upon request may result in the revoking, suspension or termination of permit coverage. A copy of Form FP-001 can be found at the end of these instructions.

Environmental Due Diligence: Investigative techniques, including, but not limited to, visual property inspections, electronic data base searches, review of property ownership, review of property use history, maps, environmental questionnaires, transaction screens, environmental analytical testing, environmental assessments or audits. Analytical testing is not a required part of due diligence unless visual inspection and/or review of the past land use of the property indicates that the fill may have been subjected to a spill or release of regulated substance. If the fill may have been affected by a spill or release of a regulated substance, it must be tested to determine if it qualifies as clean fill. Testing should be performed in accordance with Appendix A of DEP's "Management of Fill" policy. Fill material that does not qualify as clean fill is regulated fill. Regulated fill is waste and must be managed in accordance with DEP's residential or municipal waste regulations in 25 Pa. Code Chapters 287 Residual Waste Management or 271 Municipal Waste Management, whichever is applicable.

PCSM GENERAL NOTES

- The design preserves the integrity of stream channels and maintains and protects the physical, biological and chemical qualities of the receiving stream.
- The design provides for an increase in stormwater runoff volume for the 2 year, 24 hour volume increase and rate for the 2, 5, 10, 25, 50, and 100 year storm events. Volume and rate controls were achieved by the design of a rain garden and non-structural BMPs.
- The design maximizes the protection existing vegetation. The design protects the tree row on the Northeast corner of the property and proposed trees to be planted along the road frontage and a portion of the property line where trees are to be removed.
- The design minimizes land clearing and grading. The existing ground cover is meadow with some trees present on site. The grading design minimizes the area that must be graded around the dwelling.
- The design minimizes soil compaction by having a small limits of disturbance that only encompasses the area required to develop the lots.
- VW Consultants, LLC performed soils testing and a site investigation for this project.
- No surface waters exist on site. The receiving watersheds for this site is Tonolowick Creek which has a DEP classification of CWA, M1.
- The critical stage for this project is the construction of the rain garden.

SITE SPECIFIC NOTES

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- The NPDES applicant is Edward Clinton. The applicant shall be responsible for the operation, maintenance, repair, reconstruction and/or replacement of the stormwater management facilities.
- The installation of the rain garden is a critical stage for this project. The licensed design engineer or his representative shall be present on site to inspect the installation of the rain garden.
- The bottom area of the rain garden shall be protected from disturbance and compaction.
- Roof drains/downspouts and sump pumps shall discharge to the storm sewer.

SYMBOLS

- Utility Pole
- Adjoining Property Line (Approx.)
- Existing Contour
- Proposed Contour
- Soil Type
- Soil Probe
- Existing Tree Line
- Proposed Tree Line
- Wetlands
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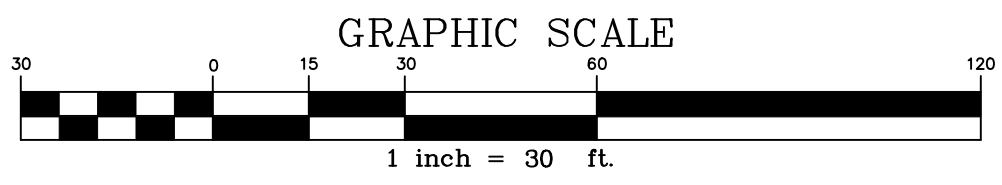
SOIL PROBE DATA

SW	Depth to IZ:	
	Groundwater	Bedrock
1	7'±	7'±
2	50'+	50'+

DOUBLE-RING INFILTRMETER TEST DATA

SW	Per. No.	Depth	Rate	Average at Site
1	1	6"	0 in/hr	0 in/hr
	2	6"	0 in/hr	
2	3	10"	0 in/hr	0 in/hr
	4	10"	0 in/hr	

SOILS
 Soil Data: (Soil Survey of Bucks County, PA USDA-NRCS)
 (CWA) Craton silt loam.
 Slopes: 0 to 3 percent slopes
 Depth to Bedrock: 40 to 60 inches
 Depth to Water Table: 0 to 6 inches
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 Hydrological Soil Group: D
Limitations and Resolutions:
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 Easily erodible- follow E&S plan
 Depth to saturated zone/high water table; Hydric/hydric inclusions; Ponding; Wetness- pump excess water through filter bag
 Low strength/landslide prone- contact structural engineer to resolve
 Slow percolation- have soils scientist evaluate for on-site sewage
 Piping- use seepage collar
 Poor source of topsoil- sufficient topsoil exists on-site
 Frost action- install footer below frost line



ENGINEER'S CERTIFICATION
 I, being a registered engineer in the Commonwealth of Pennsylvania, do hereby certify that the accompanying application, plans, and supporting documentation are true and correct to the best of my knowledge.
 Registered Engineer
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CLINTON SUBDIVISION PLAN
 Plumstead Township, Bucks County, Pennsylvania
 SCALE: As Noted
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 707 Dublin Road
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Post Construction Stormwater Management Plan
 SHEET 9 of 10

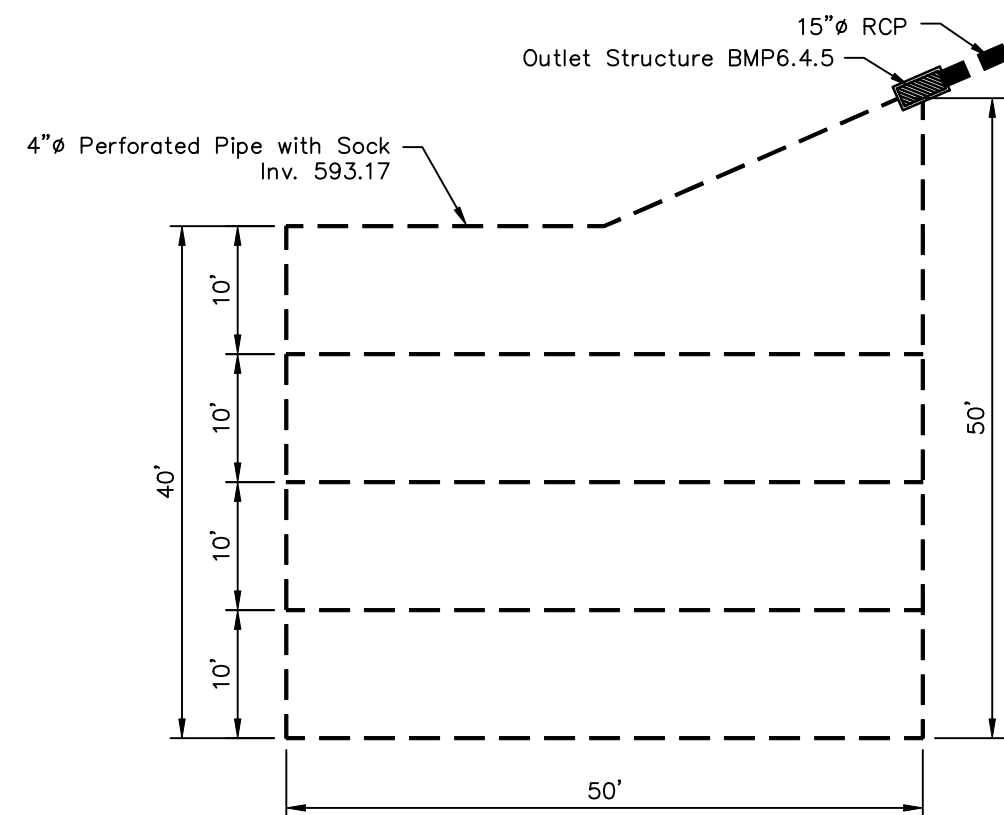
BMP6.4.5 RAIN GARDEN

- General Notes:**
- The rain garden controls the rate and volume for parts of the clubhouse, patio, cart paths, and the tennis center/gym.
 - The rain garden area shall be protected from disturbance and compaction except as necessary for construction of infiltration practices.
- Construction Sequence:**
- Protect rain garden area from compaction prior to installation.
 - If possible, install rain garden during later phases of site construction to prevent sedimentation and/or damage from construction activity. Only install pipe runs necessary for the given construction phase in order to prevent sediment from being conveyed to the rain garden. After installation, prevent sediment laden water from entering inlets and pipes. Inlet protection must be installed immediately after installation of the inlet.
 - Install and maintain proper erosion and sediment control measures during construction.
 - Excavate rain garden bottom. Do NOT compact subgrade.
 - Install outlet structure and pipe.
 - Install amended soils to final grade of rain garden and topsoil to final grade of surrounding areas.
 - Presoak the amended soils prior to planting.
 - Plant vegetation as shown in planting detail and install split rail fence.
 - Match and install silt sock 2.
 - Do not remove inlet protection, silt socks or other erosion and sediment control measures until site is fully stabilized.
 - Any sediment that enters inlets during construction is to be removed within 24 hours.

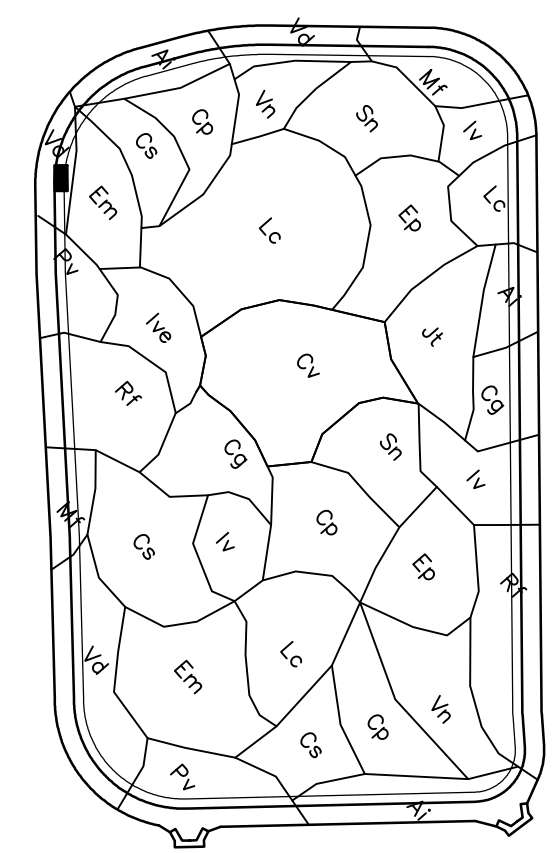
Maintenance Notes:

The property owner(s) shall periodically inspect the rain garden and perform maintenance as needed. The inspections/maintenance shall include the following, (a minimum of once a year):

- Inspect for any ground settlement or erosion. Fill in affected areas and reseed.
- Inspect for accumulated sediment/debris. Remove the accumulated sediment and debris.



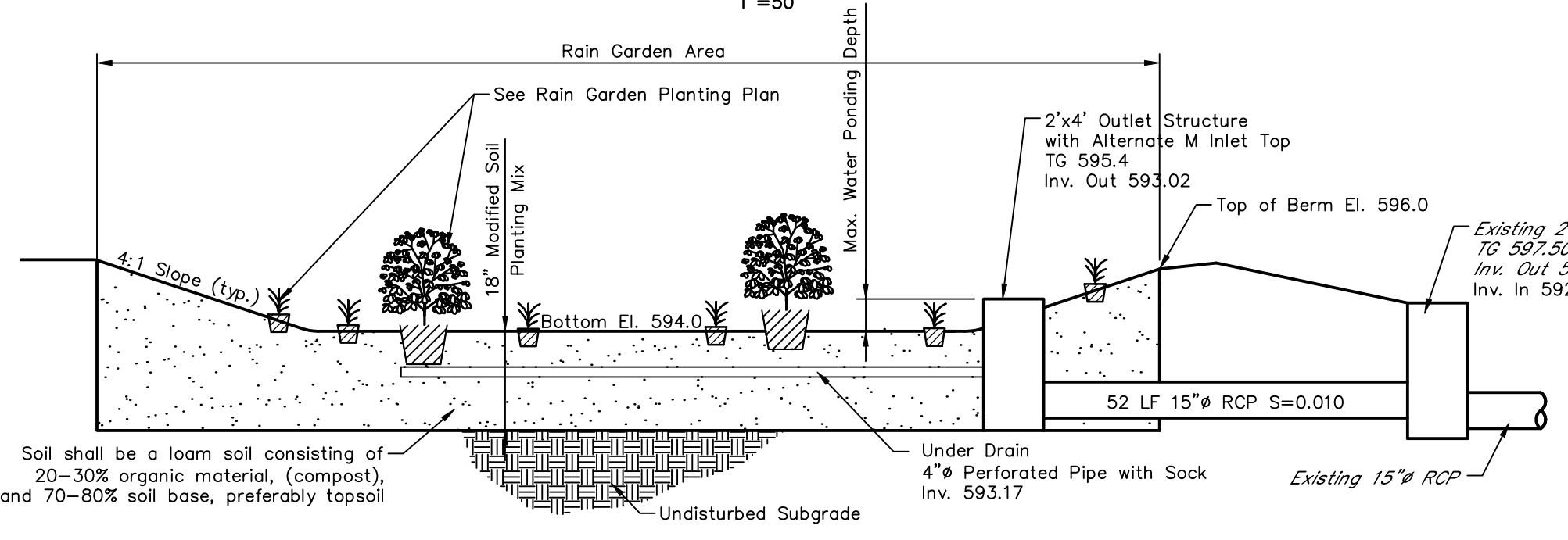
BMP6.4.5 RAIN GARDEN UNDER DRAIN DETAIL
N.T.S.



Symbol	Botanical Name	Common Name	Spacing	Quantity
Cv	Carex vulpinoidea	Fox Sedge	2'	130
Cs	Carex stricta	Tussock Sedge	2'	160
Em	Eupatorium maculatum	Spotted Joe Weed	5'	25
Jt	Juncus torreyi	Torrey's Rush	1.5'	110
Iv	Iris versicolor	Blue Flag Iris	2'	50
Iv	Ilex verticillata	Winterberry	4'	20
MF	Monarda fistulosa	Wild Bergamot	1.5'	120
Ep	Echinacea purpurea	Purple Coneflower	3'	60
Al	Asclepias incarnata	Swamp Milkweed	1.5'	190
Vn	Vernonia noveboracensis	New York Ironweed	1'	380
Cp	Carex pennsylvanica	Pennsylvania Sedge	1'	380
Cg	Chelone glabra linifolia	White Turtlehead	1'	320
Lc	Lobelia cardinalis	Cardinal Flower	1'	630
Rf	Rudbeckia fulgida	Black-eyed Susan	1.5'	195
Sn	Symphoricarpon naove-angliae	New England Aster	2'	110
Vd	Viburnum dentatum	Arrowwood Viburnum	4'	30
Pv	Panicum virgatum	Switchgrass	2'	100

NOTES: 1. Plant list is subject to change depending on plant availability at time of construction. Any substitution plants shall be approved by the Township engineer.
2. Plants shall be planted in plugs. Where plugs are not available use 4" container plants.

BMP6.4.5 RAIN GARDEN (TYPICAL PLANTING PLAN)



BMP6.4.5 RAIN GARDEN CROSS SECTION
N.T.S.

POST CONSTRUCTION STORMWATER MANAGEMENT NOTES

Permit Termination
Upon permanent stabilization of the earth disturbance activity under 102.22(a)(2) (relating to permanent stabilization), and installation of BMPs in accordance with an approved plan prepared and implemented in accordance with 102.4 and 102.8 (relating to erosion and sediment control requirements; and PCSM requirements), the permittee or co-permittee shall submit a notice of termination of the Department or conservation district.

- The notice of termination must include:
- The facility name, address, and location.
 - The operator name and address.
 - The permit number.
 - The reason for permit termination.
 - Identification of the persons who have agreed to and will be responsible for long-term operation and maintenance of the PCSM BMPs in accordance with 102.8(m) and proof of compliance with 102.8(m)(2).

PCSM Requirements
PCSM reporting and record keeping. The PCSM Plan, inspection reports and monitoring records shall be available for review and inspection by the Department or the conservation district.
Licensed professional oversight of critical stages. A licensed professional or a designee shall be present onsite and be responsible during critical stages of implementation of the approved PCSM Plan. The critical stages may include the installation of soil amendments, underground treatment or storage BMPs, structurally engineered BMPs, or other BMPs as deemed appropriate by the Department of the conservation district.
Final certification. The permittee shall include with the notice of termination "Record Drawings" with a final certification statement from a licensed professional, which reads as follows:
"I, Scott Mease do hereby certify pursuant to the penalties of 18 Pa.C.S.A. 4904 to the best of my knowledge, information and belief, that the accompanying record drawings accurately reflect the as-built conditions, are true and correct, and are in conformance with Chapter 102 of the rules and regulations of the Department of Environmental Protection and that the project site was constructed in accordance with the approved PCSM Plan, all approved plan changes and accepted construction practices."

- The permittee shall retain a copy of the record drawings as a part of the approved PCSM Plan.
- The permittee shall provide a copy of the record drawings as a part of the approved PCSM Plan to the person identified in this section as being responsible for the long-term operation and maintenance of the PCSM BMPs.

PCSM Long Term Operations and Maintenance Requirements
Until the permittee or co-permittee has received written approval of a notice of termination, the permittee or co-permittee will remain responsible for compliance with the permit terms and conditions including long-term operation and maintenance of all PCSM BMPs on the project site and is responsible for violations occurring on the project site. The Department or conservation district will conduct a final inspection and approve or deny the notice of termination within 30 days.

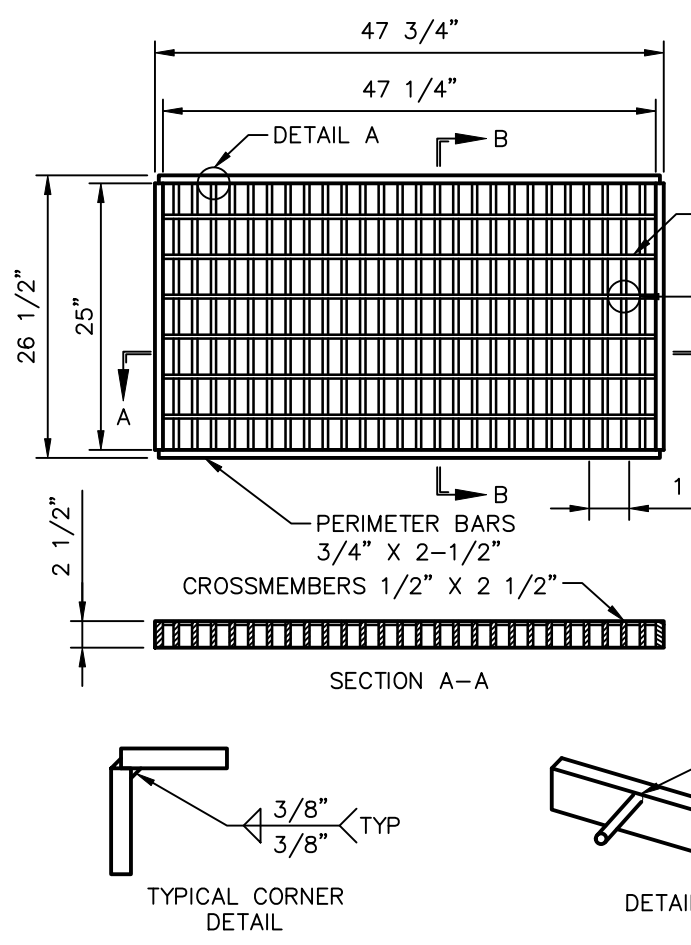
The permittee or co-permittee shall be responsible for long-term operation and maintenance of PCSM BMPs unless a different person is identified in the notice of termination and has agreed to long-term operation and maintenance of PCSM BMPs. For any property containing a PCSM BMP, the permittee or co-permittee shall record an instrument with the recorder of deeds which will assure disclosure of the PCSM BMP and the related obligations in the ordinary course of a title search of the subject property. The recorded instrument must identify the PCSM BMP, provide for necessary access related to long-term operation and maintenance for PCSM BMPs and provide notice that the responsibility for long-term operation and maintenance of the PCSM BMP is a covenant that runs with the land that is binding upon and enforceable by subsequent grantees, and provide proof of filing with the notice of termination under 102.7(b)(5) (relating to permit termination).

The person responsible for performing long-term operation and maintenance may enter into an agreement with another person including a conservation district, nonprofit organization, municipality, authority, private corporation or other person, to transfer the responsibility for PCSM BMPs or to perform long-term operation and maintenance and provide notice thereof to the Department.
A permittee or co-permittee that fails to transfer long-term operation and maintenance of the PCSM BMP or otherwise fails to comply with this requirement shall remain jointly and severally responsible with the landowner for long-term operation and maintenance of all PCSM BMPs located on the property.



Note: Stormdrain markers are to be cast into all stormwater inlets.

STORM DRAIN MARKER DETAIL



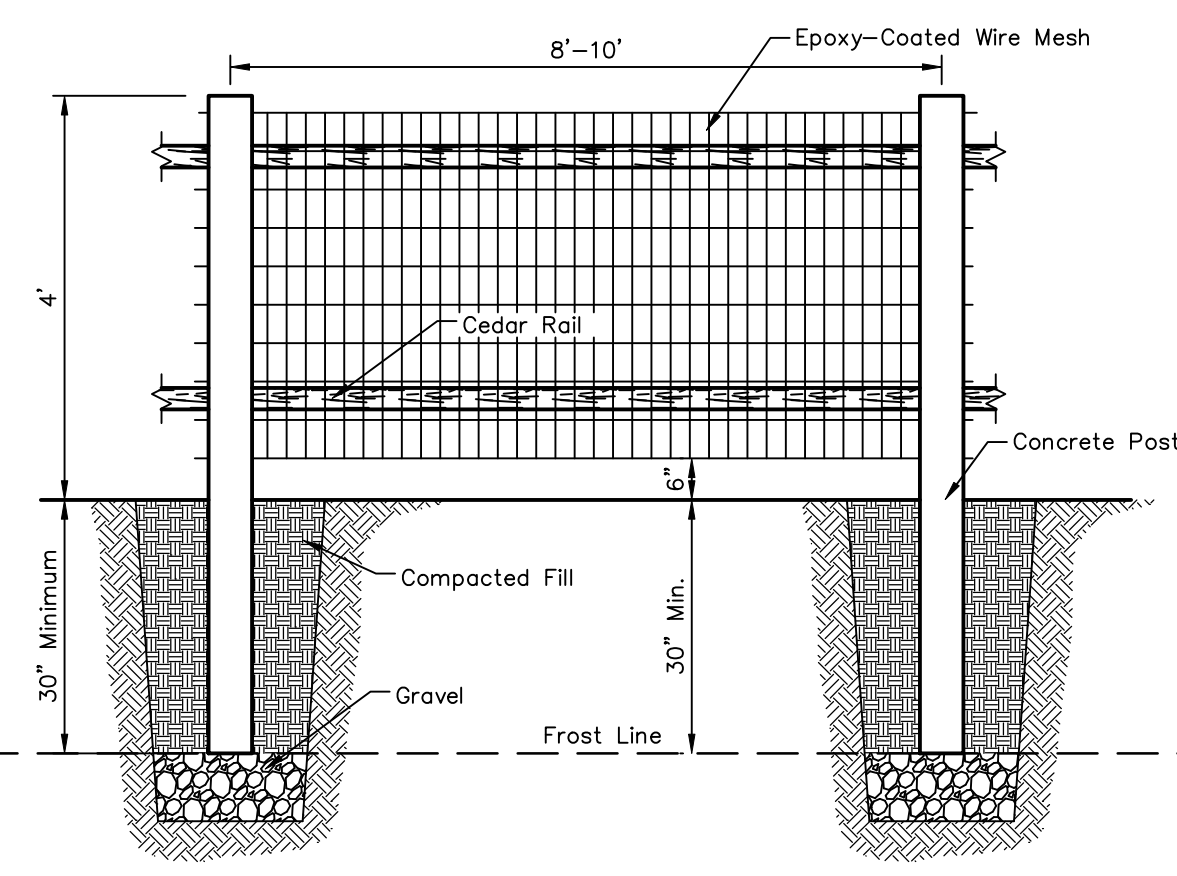
2' X 4' BICYCLE SAFE FRAME & GRATE HS-25 DETAIL
N.T.S.

- NOTES:**
- Structural steel grates welded in accordance with PA DOT Pub. 408, Section 1105.03 (R).
 - Structural steel frame and grates coated with 1 coat bituminous paint.
 - Tolerances shall be +/- 1/8".
 - Structural steel to meet or exceed requirements of AASHTO-M183 or ASTM-A36.
 - Grate spacers to be flush with top surface of grate.
 - All welding is done by certified welders as per PA DOT Pub. 408, Sec. 1105.03.

STORM SEWER SCHEDULE

NOTES: * T/G indicates top of grate elevation of proposed inlet

FEATURE	DESIGNATION	T/G (ft.)	INV. IN (ft.)	INV. OUT (ft.)	LENGTH (ft.)	SLOPE (ft.)
2' x 4' TYPE 'C'	I-1	600.45	-	597.78	-	-
15" RCP	P-1	-	-	-	52	0.010
2' x 4' TYPE 'C'	I-2	600.25	597.26	597.06	-	-
15" RCP	P-2	-	-	-	89	0.010
2' x 2' TYPE 'M'	I-3	599.80	-	597.22	-	-
15" RCP	P-3	-	-	-	94	0.011
2' x 4' TYPE 'C'	I-4	599.27	597.17	595.97	-	-
15" RCP	P-4	-	-	-	69	0.008
End Wall	EW-1	-	-	595.40	-	-
2' x 4' TYPE 'C'	I-5	598.66	-	595.99	-	-
15" RCP	P-5	-	-	-	28	0.010
2' x 4' TYPE 'C'	I-6	598.66	595.71	595.51	-	-
15" RCP	P-6	-	-	-	21	0.005
End Wall	EW-2	-	-	595.40	-	-
2' x 4' TYPE 'C'	OS-1	595.40	-	593.02	-	-
15" RCP	OSP-1	-	-	-	52	0.010



SPLIT RAIL FENCE DETAIL
N.T.S.

ENGINEER'S CERTIFICATION

I, being a registered engineer in the Commonwealth of Pennsylvania, do hereby certify that the accompanying application, plans, and supporting documentation are true and correct to the best of my knowledge.

Registered Engineer
Registration No. PE036737-E

TYPE OF BMP	FREQUENCY	MAINTENANCE/INSPECTION ACTIVITY	REMEDY	CLEAN-OUT LEVEL	RESPONSIBLE PARTY
Storm Sewer	After major storm events (>1 inch rainfall depth)	1. Check for accumulated sediment/debris in storm sewer 2. Check for accumulated sediment/debris in inlets	Remove debris Remove debris	When sediment > 3 inches at any spot or obstructing flow through system	Owner (before dedication) Township (after accepting local road dedication)
	After major storm events (>1 inch rainfall depth)	1. Check for damage to vegetated areas 2. Check for signs of erosion	Reseed affected areas Regrade and reseed affected areas		
Rain Garden	Every 6 months	1. Check for accumulated sediment/debris in riser pipe 2. Check for accumulated sediment/debris in bed area	Remove debris Remove debris	When debris or sediment accumulations are plainly visible	Owner (before dedication) Township (after accepting local road dedication)
	Every 12 months	1. Check for any settling 2. Clean out roof gutters	Fill-in settled area, regrade, and reseed area Clean gutters		
	Additional Note: Vehicles should not be parked or driven in rain garden bed area, and care should be taken to avoid excessive compaction by mowers. Water vegetation during drought conditions, as necessary.				

Note: For additional maintenance information pertaining to the individual BMPs, refer to each BMP's respective detail.

ME Mease Engineering, P.C.
Office (215) 536-7005
Fax (215) 536-8881
516 W. Broad Street
Quakertown, PA 18951
PROFESSIONAL ENGINEERING & SURVEYING

NO.	DATE	DESCRIPTION	BY
1	04/30/21	Per Review Letter Dated 03/26/21	TNF

CLINTON SUBDIVISION PLAN
Plumstead Township, Bucks County, Pennsylvania
SCALE: As Noted
DATE: 5 Mar. '21
DRAWN BY: TNF
FILE: 20030810
OWNERS OF RECORD: Edward I. & Rose Marie & Daniel E. Clinton
707 Dublin Road
Perkasie, PA 18944
Post Construction Stormwater Management Details