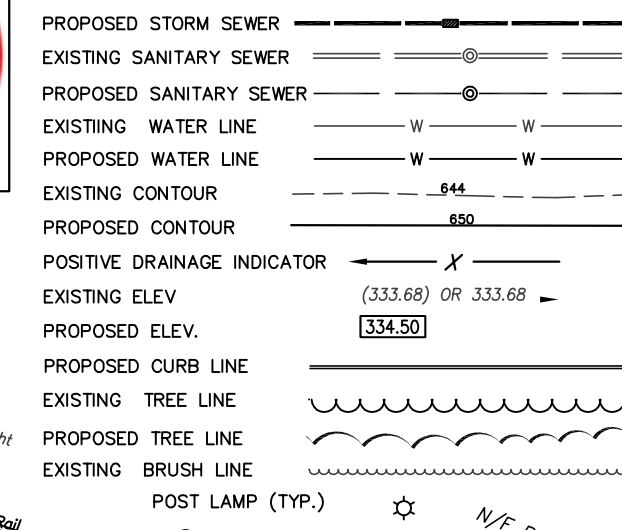


STOP-CALL BEFORE YOU DIG!

LOCATION OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CAN NOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE SYSTEM THREE DAYS PRIOR TO EXCAVATION. REFERENCE PENNSYLVANIA ACT 287 AS AMENDED BY ACT 181 (2006).
FILE # 1-500-242-1776 OR 811
WORK LOCATION NO.: 20172010155-000



LEGEND



ZONING - R-25

PROPOSED USE - B1 - SINGLE FAMILY DETACHED BULK & YARD REQUIREMENTS
REQUIRED
LOT WIDTH: 15,000 S.F.
94 FT.
SETBACKS:
FRONT YARD - 40 FT.
SIDE YARD - 15 FT.
REAR YARD - 30 FT.
MAXIMUM BUILDING COVERAGE: 20%
MINIMUM BUILDING ENVELOPE: 5,000 S.F.
(TW PUBLIC UTILITIES)
WOODLAND DISTURBANCE
REQUIRED PARKING
388 OR LESS 2 SPACES
4 BR OR MORE 3 SPACES
REQUIRED RECREATION LAND
0.0124 ACRES/LOT

WAIVER REQUEST

RELIEF IS HEREBY REQUESTED FROM THE FOLLOWING PROVISIONS OF THE NEW HANOVER TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE:
Section 22-812.2 - Curbing is required along all roads. Curbing was previously installed along a portion of New Hanover Square Road. A waiver is requested for installation of curbing along the remainder of New Hanover Square Road and all of Swamp Pike.
Section 22-812.4 - Ultimate right-of-way is not being offered in front of Lot 20, the existing residence. The curfew width of New Hanover Square Road is less than the required 36 feet wide. A waiver is requested to permit road to remain at existing width. Note added that should dwelling on Lot 16 be demolished, right-of-way will be dedicated at that time.
Section 22-822.1 - Sidewalks are required along both sides of existing and new streets. Sidewalks are proposed along both sides of the new street. A waiver is requested for sidewalks along Swamp Pike and New Hanover Square Road.
Section 22-410.1 - The upstream edge of the emergency spillway shall provide a minimum of six inches of freeboard to the crest of the emergency spillway and an additional one foot of freeboard above the flow through the emergency spillway to the top of the embankment when the facility functions for the one-hundred-year proposed conditions inflow. Several inches have been provided to the crest of the spillway and a minimum of 6.30 feet provided through the emergency spillway for the 3 basins. Maximum basin height to spillway crest is 2.5 feet. Required freeboard(s) adds unnecessary height and impact to these small shallow basins.
Section 22-410.3.5 - The side slopes of any stormwater management facility shall not be greater than five horizontal to one vertical. A waiver is requested to allow 3: slopes on inside of berm and 4:1 on outside of berm to minimize impact to site and existing steep slopes.
Section 22-813.5 requires that on-street parking shall be provided along both sides of the street where any lot is less than 20,000 square feet or where any lot width is less than 100 feet. Parking is proposed on one side only and 32' curfew width is proposed consistent with existing Matthew Lane.

GENERAL NOTES:

- 1. BOUNDARY AND TOPOGRAPHY PERFORMED IN JUNE & JULY 2017 BY IRICK EBERHARDT & MIENTUS, INC. WITH THE BENEFIT OF A TITLE REPORT DATED 6-6-2016 APPLICATION NO. 10089-FA BY FREALAND ABSTRACT, LLC.
- 2. WETLAND DELINEATION BY PENNS TRAIL ENVIRONMENTAL, LTD. AND FIELD LOCATED BY IRICK EBERHARDT & MIENTUS, INC. IN JULY 2017.
- 3. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- 4. SANITARY SEWERS SHALL BE DEDICATED TO THE NEW HANOVER TOWNSHIP AUTHORITY AT THE COMPLETION OF THE 18 MONTH MAINTENANCE PERIOD. NO SWAMP RUNS, WATER HEATER BLOWOFFS OR HEATER OR AIR CONDITIONER CONDENSATE CONDENSATE LINES MAY BE CONNECTED TO THE SANITARY SEWER.
- 5. THE APPROVED CONSTRUCTION PLANS, A COPY WHICH MAY BE INSPECTED AT THE TOWNSHIP OFFICE, HAS BEEN MADE PART OF THE APPROVED FINAL PLAN.
- 6. THE ULTIMATE RIGHT-OF-WAY FOR THE EXISTING ROADS AND NEW ROADS ARE HEREBY OFFERED FOR DEDICATION TO THE AGENCY HAVING JURISDICTION WITH THE EXCEPTION OF RIGHT-OF-WAY IN FRONT OF EXISTING DWELLINGS ON LOT #16, SHOULD EXISTING DWELLINGS BE DEMOLISHED IN THE FUTURE, THE ULTIMATE RIGHT-OF-WAY SHALL BE OFFERED AT THAT TIME.
- 7. PROPOSED ROADS SHALL BE GRADED TO THE FULL WIDTH OF THE RIGHT-OF-WAY AND CONSTRUCTED IN ACCORDANCE WITH THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION AND NEW HANOVER TOWNSHIP'S SPECIFICATIONS.
- 8. ALL LOTS SHALL BE SERVED BY PUBLIC SEWER AND WATER.
- 9. ALL WATER LINES ARE HEREBY OFFERED FOR DEDICATION TO AQUA AMERICA, INC. CONSTRUCTION OF THESE UTILITIES SHALL BE IN ACCORDANCE WITH THE DETAILS AND SPECIFICATIONS OF AQUA AMERICA, INC.
- 10. PERMANENT CONCRETE MONUMENTS SHALL BE PLACED AT ALL PROPERTY CORNER, ANGLE POINTS, P.C.'S AND P.T.'S OF CURVES AS INDICATED ON THE PLAN BY THE SYMBOL ID. ALL LOT CORNERS SHALL BE PERMANENTLY MARKED WITH IRON PINS OF AT LEAST 5/8" DIAMETER THAT HAVE AN IDENTIFYING TOP STRUCTURE. MONUMENTS WILL BE PLACED UPON COMPLETION OF FINAL GRADING, AND FLUSH TO GROUND WITH TOPS IDENTIFYING THEIR FUNCTION.
- 11. EASEMENTS SHALL NOT BE PLANTED WITH TREES OR SHRUBS OR BUILT UPON. STORM DRAINAGE AND ENVIRONMENTAL PROTECTION EASEMENTS SHALL NOT BE CONSTRUCTED UPON OR FILLED IN WITH CORN OR DEBRIS.
- 12. ALL UTILITY SERVICES ARE TO BE UNDERGROUND.
- 13. THE DEVELOPER SHALL INSTALL ALL REQUIRED STREET AND REGULATORY SIGNS.
- 14. ON LOTS OF 15,000 SF OR GREATER, CANOPY TREES SHALL BE REQUIRED AT INTERVALS OF NOT MORE THAN 50 FEET.
- 15. ALL FOUNDATIONS CONSTRUCTED IN AREA OF HIGH GROUND WATER SHALL BE CONSTRUCTED IN ACCORDANCE WITH NEW HANOVER TOWNSHIP SECTION 946.2. IN THE EVENT GROUNDWATER IS ENCOUNTERED, THE BUILDER SHALL ENGAGE AN ENGINEER IMMEDIATELY TO PREPARE A PLAN FOR REMEDIATION. THE PLAN WILL BE NEEDED TO BE REVIEWED BY TOWNSHIP ENGINEER PRIOR TO BACKFILLING AND COMPLETION OF THE FOUNDATION.

MONTGOMERY COUNTY PLANNING COMMISSION

MCPC NO. PROCESSED AND REVIEWED. REPORT PREPARED BY MONTGOMERY COUNTY PLANNING COMMISSION IN ACCORDANCE WITH THE MUNICIPALITIES PLANNING CODE. CERTIFIED THIS DATE:

FOR THE DIRECTOR

SHEET INDEX

- 1. PLAN OF SUBDIVISION*
- 2. EXISTING SITE FEATURES PLAN
- 3. SITE IMPROVEMENT PLAN
- 4. LANDSCAPING PLAN
- 5. MATTHEW DRIVE PROFILE STA. 0+00 TO 9+00
- 6. MATTHEW DRIVE PROFILE STA. 9+00 TO TERMINUS/ OFF ROAD STORM SEWER PROFILES
- 7. CONSTRUCTION DETAILS
- 8. CONSTRUCTION DETAILS
- 9. CONSTRUCTION DETAILS
- 10. CONSTRUCTION DETAILS
- 11. EROSION CONTROL PLAN
- 12. E & S CONSTRUCTION DETAILS
- 13. E & S CONSTRUCTION DETAILS
- 14. E & S CONSTRUCTION DETAILS
- 15. PCSM PLAN**
- 16. PCSM DETAILS**
- 17. PCSM DETAILS
- 18. INLET DRAINAGE AREA PLAN
- 19. CLEAR SIGHT PLAN
- *PLAN TO BE RECORDED
- **PLAN TO BE RECORDED PER NPDES PERMIT REQUIREMENT

- 16. THE DWELLINGS SHOWN ON THESE PLANS ARE SUBJECT TO ALL TOWNSHIP ZONING AND SUBDIVISION ORDINANCE REQUIREMENTS. INDIVIDUAL HOUSING UNITS AS DEPICTED ON THE CONSTRUCTED ON DRAWINGS ARE APPROXIMATE ONLY. ACTUAL HOUSE LOCATIONS AND ELEVATIONS SHALL BE DETERMINED WHEN APPLICATION FOR THE INDIVIDUAL BUILDING PERMIT IS MADE.
- 17. ALL EASEMENT CORNERS SHALL BE PERMANENTLY MARKED WITH IRON PINS OF AT LEAST 5/8" DIAMETER THAT HAVE AN IDENTIFYING TOP STRUCTURE.
- 18. THE 100 YEAR FLOODPLAIN LINE WAS ESTABLISHED BY FEMA FIRM MAP 44202CORR00 PANEL 499 OF 551, DATED MARCH 2, 2016. ALL WETLAND AREAS SHALL REMAIN IN THEIR NATURAL STATE AND NO ENCROACHMENT IS ALLOWED, EXCEPT AS PERMITTED BY PA D.E.P. AND/OR U.S. CORPS OF ENGINEERS.
- 19. NO NEW DRIVEWAYS FROM NEW HANOVER SQUARE ROAD OR SWAMP PIKE ARE PERMITTED, EXCEPT FOR LOT 16. ALL DRIVEWAY LOCATIONS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE.
- 20. EACH LOT SHALL HAVE A POLE LIGHT AT THE DRIVEWAY, LOCATED 6 FEET BEHIND THE RIGHT-OF-WAY LINE.
- 21. A FEE "IN LIEU OF" WILL BE OFFERED IN LIEU OF THE PROVISION OF REQUIRED RECREATION LAND.
- 22. PROPOSED LENGTH OF NEW ROAD - 1125 L.F.
- 23. LOTS #1, 11, 12 & 13 SHALL TAKE ACCESS ONLY FROM MATTHEW LANE.
- 24. TEMPORARY TURNAROUND - THE DEVELOPER OF THIS TRACT WAS MADE RESPONSIBLE OF THE FUTURE EXTENSION OF MATTHEW LANE, INCLUDING SIDEWALK, CURBING, THE RESTORATION OF ALL LAWN AREAS ON ADJOINING PROPERTIES AND EXTENSION OF PRIVATE DRIVES TO THE NEW CURB POSITIONS. THE TEMPORARY TURNAROUND AREA WAS GRANTED AS AN EASEMENT TO THE TOWNSHIP TO BE SURRENDERED TO THE ADJACENT PROPERTY OWNERS UPON EXTENSION OF THE STREET.

COMMONWEALTH OF PENNSYLVANIA
COUNTY OF MONTGOMERY:
OWNER'S CERTIFICATE

I, the undersigned, have laid out upon our land situate in New Hanover Township, Montgomery County, Commonwealth of Pennsylvania, certain improvements according to the accompanying plan which is intended to be recorded. Witness my hand and seal this ___ day of ___, 20__.

Notary Public
COMMONWEALTH OF PENNSYLVANIA
SS:
NEW HANOVER TOWNSHIP PLANNING COMMISSION
RECOMMENDED FOR APPROVAL BY THE NEW HANOVER TOWNSHIP PLANNING COMMISSION THIS DAY OF ___, 20__.

Chairman _____ Vice Chairman _____
NEW HANOVER TOWNSHIP BOARD OF SUPERVISORS
APPROVED BY THE BOARD OF SUPERVISORS OF NEW HANOVER TOWNSHIP THIS DAY OF ___, 20__.

Chairman _____ (seal)
Secretary _____
REVIEWED BY THE NEW HANOVER TOWNSHIP ENGINEER THIS ___ DAY OF ___, 201__

COUNTY RECORDER OF DEEDS
RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS FOR MONTGOMERY COUNTY, AT NORRISTOWN, PA. THIS ___ DAY OF ___, 20__ IN PLAN BOOK ___ PAGE ___ BY: RECORDER OF DEEDS

CERTIFICATION OF ACCURACY
I HEREBY CERTIFY THAT THE PLAN SHOWN AND DESCRIBED HEREON, AS WELL AS ALL OF THE OTHER DRAWINGS AS PART OF THIS PLAN, ARE TRUE AND CORRECT TO THE ACCURACY REQUIRED BY THE UPPER HANOVER TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE, AND WERE PREPARED BY ME OR UNDER MY DIRECTION AND FOR WHICH I ACCEPT FULL RESPONSIBILITY. THE PERIMETER MONUMENTS OR MARKERS SHALL BE ACCURATELY PLACED AS REQUIRED BY THE TOWNSHIP OF NEW HANOVER ENGINEERING STANDARDS.

DATE	SIGNATURE	LICENSE #

SITE ADDRESS	OWNER OF RECORD	APPLICANT
2412 SWAMP PIKE GILBERTSVILLE, PA 19525-9737	PARCEL 47-00-07084-00-6 BLOCK 057 UNIT 058 DEED BOOK 5952 PAGE 1927 BRUCE K. & RONALD P. MOYER DONNA K. HOFFMAN JUDITH M. MILLER	PAUL W. MOYER & SONS 2412 SWAMP PIKE GILBERTSVILLE, PA 19525-9737

REVISION DATE:	DESCRIPTION:
JANUARY 25, 2018	REVISE PER TWP. ENG. (12/4/17), TWP. PLANR (12/5/17), TRAF. ENG. (12/5/17)
MAY 4, 2018	TWP. ENG. (6/18), TWP. PLANR (6/18), TRAF. ENG. (7/18), DITCH (3/18), WOODS (13/18)

"MOYER TRACT - FARMVIEW ACRES"
PRELIMINARY PLAN - NOT TO BE RECORDED

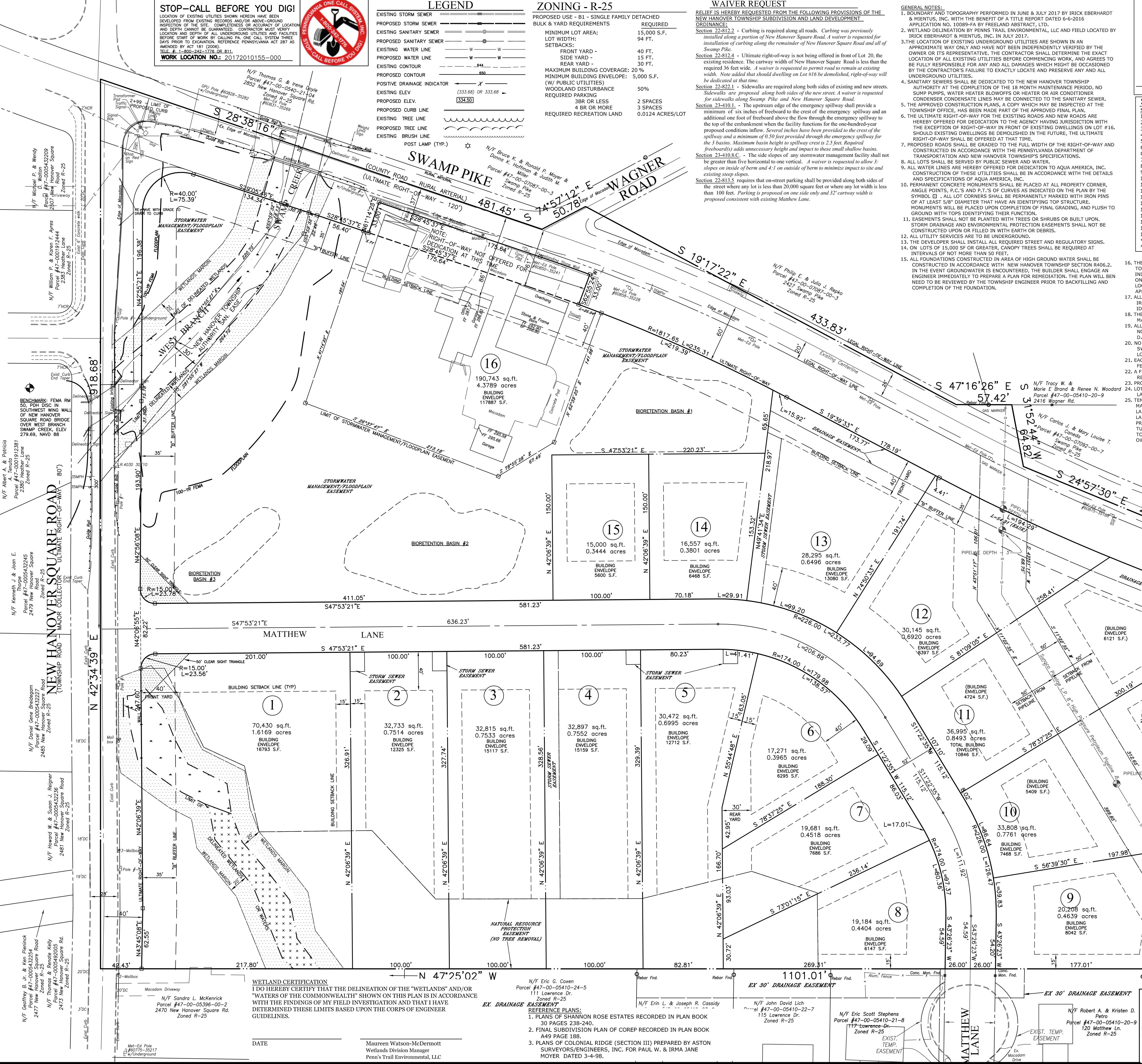
PLAN OF SUBDIVISION
PREPARED FOR
PAUL W. MOYER & SONS
SITUATE
NEW HANOVER TOWNSHIP
MONTGOMERY COUNTY PENNSYLVANIA

DATE:	ISSUE NUMBER:
OCTOBER 10, 2017	RFI 17-06
	RFI 17-06BASE

SCALE: 1" = 50'



SCALE: 1"=800'



WETLAND CERTIFICATION
I DO HEREBY CERTIFY THAT THE DELINEATION OF THE "WETLANDS" AND/OR "WATERS OF THE COMMONWEALTH" SHOWN ON THIS PLAN IS IN ACCORDANCE WITH THE FINDINGS OF MY FIELD INVESTIGATION AND THAT I HAVE DETERMINED THESE LIMITS BASED UPON THE CORPS OF ENGINEER GUIDELINES.

DATE _____
Maureen Watson-McDermott
Wetlands Division Manager
Penn's Trail Environmental, LLC

EX 30' DRAINAGE EASEMENT
REFERENCES:
1. PLANS OF SHANNON ROSE ESTATES RECORDED IN PLAN BOOK 30 PAGES 238-240.
2. FINAL SUBDIVISION PLAN OF COREP RECORDED IN PLAN BOOK 449 PAGE 188.
3. PLANS OF COLONIAL RIDGE (SECTION III) PREPARED BY ASTON SURVEYORS/ENGINEERS, INC. FOR PAUL W. & IRMA JANE MOYER. DATED 3-4-98.

N/F Eric G. Coenen
Parcel #47-00-05410-24-5
111 Lawrence Dr.
Zoned R-25
N/F Erin L. & Joseph R. Cassidy
Parcel #47-00-05410-22-7
115 Lawrence Dr.
Zoned R-25
N/F Eric Scott Stephens
Parcel #47-00-05410-21-9
117 Lawrence Dr.
Zoned R-25
N/F Robert A. & Kristen D. Petro
Parcel #47-00-05410-20-9
120 Matthew Ln.
Zoned R-25

N/F Phillip E. & Julia J. Beppo
Parcel #47-00-07084-00-3
2412 Swamp Pike
Zoned R-25
N/F Tracy W. & Marie E. Brand & Renee N. Woodard
Parcel #47-00-05410-20-9
2418 Wagner Rd.
N/F Carlos J. & Mary Louise T. Cor
Parcel #47-00-07164-00-7
2655 Swamp Pike
Zoned R-25

N/F Phillip E. & Irene Doyle
Parcel #47-00-0540-21-04
2502 New Hanover Square Rd.
Zoned R-25
Parcel #47-00-05410-21-04
2502 New Hanover Square Rd.
Zoned R-25
Parcel #47-00-05410-21-04
2502 New Hanover Square Rd.
Zoned R-25
N/F William C. & Wendy
Parcel #47-00-0542709
2510 New Hanover Square Rd.
Zoned R-25
N/F William C. & Wendy E. Ayres
Parcel #47-00-0542744
2383 New Hanover Square Rd.
Zoned R-25
N/F Albert A. & Patricia
Parcel #47-00-0542781
2378 New Hanover Square Rd.
Zoned R-25
N/F Kenneth J. & Jean E.
Parcel #47-00-0542245
2479 New Hanover Square Rd.
Zoned R-25
N/F David Gene Brinkman
Parcel #47-00-0542227
2485 New Hanover Square Rd.
Zoned R-25
N/F Howard W. & Susan J. Brygier
Parcel #47-00-0542226
2481 New Hanover Square Rd.
Zoned R-25
N/F Gregory B. & New Brinkman
Parcel #47-00-0542254
2417 New Hanover Square Rd.
Zoned R-25
N/F Thomas & Rosetta Kelly
Parcel #47-00-0542005
2413 New Hanover Square Rd.
Zoned R-25
N/F Sandra L. McKenrick
Parcel #47-00-05398-00-2
2470 New Hanover Square Rd.
Zoned R-25

N/F Sandra L. McKenrick
Parcel #47-00-05398-00-2
2470 New Hanover Square Rd.
Zoned R-25

Med-E Pole
36075-35217
E-36075-35217

SITE STATISTICS
GROSS TRACT AREA - 18.495 ACRES
NET TRACT AREA (LESS ROW) - 15.7255 ACRES
PROPOSED NUMBER OF LOTS - 16
(INCLUDES ONE EXISTING LOT)
RECREATION LAND REQUIRED - 0.2356 ACRES

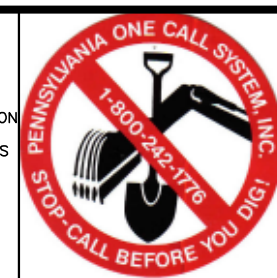
DATE: OCTOBER 10, 2017
MANAGER: RFI 17-06
DRAWN BY: RFI 17-06BASE
SCALE: 1" = 50'

IRICK EBERHARDT & MIENTUS, INC.
Land Planning • Engineering • Landscape Architecture • Land Surveying
Suite Three
2771 Gettysville Pike
Harrisburg, PA 17133
215-541-4626
215-541-4023(fax)
E-Mail: info@irick.com

STOP-CALL BEFORE YOU DIG!

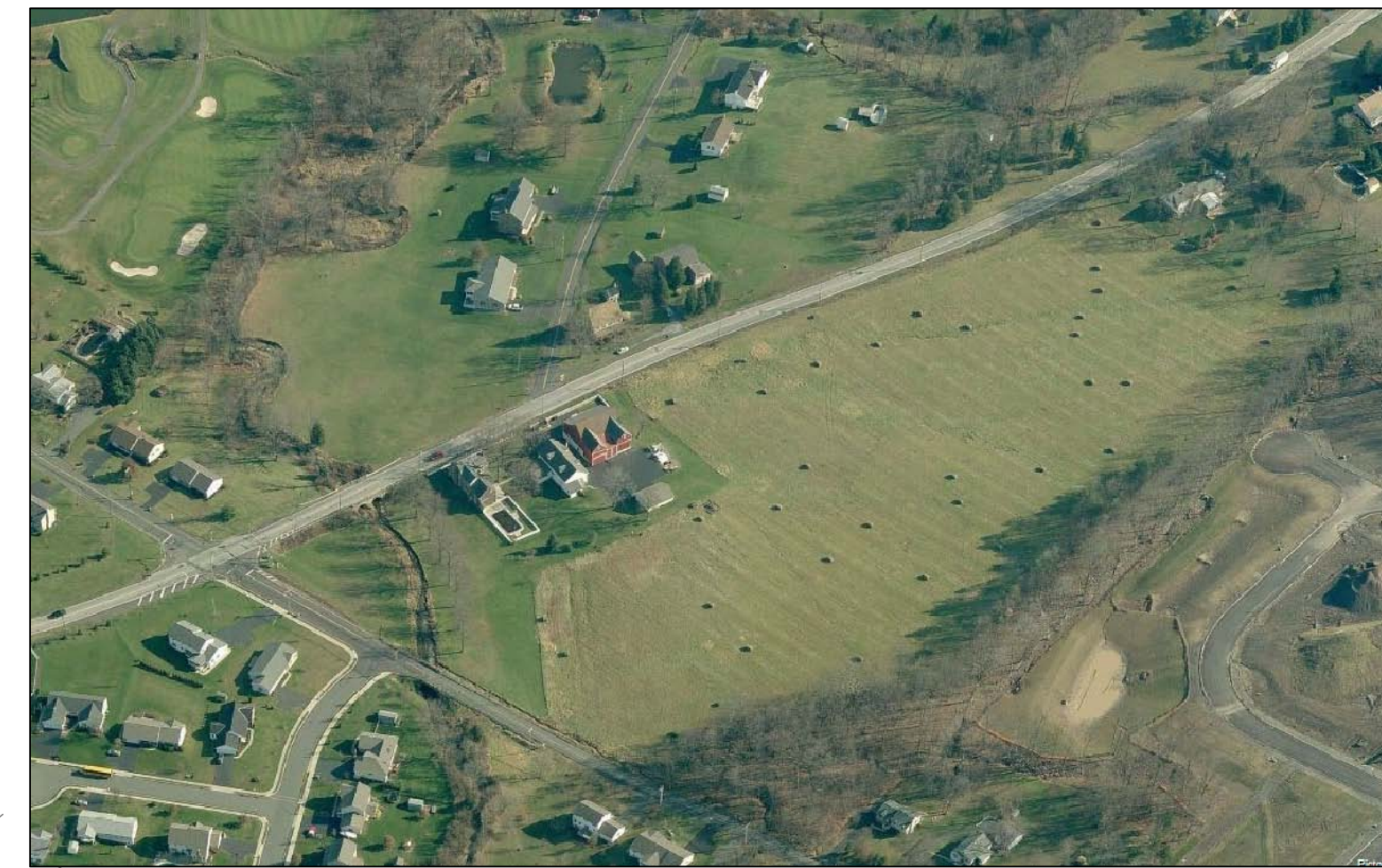
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WORK LOCATION NO.: 20172010155-000



- INDICATES AREAS OF STEEP SLOPES - 15-25%
- INDICATES AREAS OF STEEP SLOPES - 25%+
- INDICATES DELINEATED WETLANDS
- INDICATES DELINEATED WATERS
- INDICATES WETLANDS MARGIN

WETLAND EVALUATION COMPLETED BY PENNY'S TRAIL ENVIRONMENTAL, LLC IN JULY 2017



AERIAL VIEW
SCALE: 1" = 200'

- LEGEND**
- EXISTING STORM SEWER
 - PROPOSED STORM SEWER
 - EXISTING SANITARY SEWER
 - PROPOSED SANITARY SEWER
 - EXISTING WATER LINE
 - PROPOSED WATER LINE
 - EXISTING CONTOUR
 - PROPOSED CONTOUR
 - POSITIVE DRAINAGE INDICATOR
 - EXISTING ELEV. (333.68) OR 333.68
 - PROPOSED ELEV. (334.50)
 - PROPOSED CURB LINE
 - EXISTING TREE LINE
 - PROPOSED TREE LINE
 - EXISTING BRUSH LINE

TABLE OF NATURAL RESOURCES

RESOURCE	TOTAL AREA OF RESOURCE	ALLOWABLE DISTURBANCE	PROPOSED DISTURBANCE
FLOODPLAIN	57156 S.F.	0	0
FLOODPLAIN SOILS	0*	0	0
STEEP SLOPES:			
15-25%	48,317 S.F.	14,495 S.F. (30%)	12,015 S.F. (24.8%)
25%+	23,705 S.F.	4,741 S.F. (20%)	0
WOODLANDS	106,664 S.F.	53,332 S.F. (50%)	9,763 S.F. (9.2%)
NATURE TREES	27	10 (40%)	0
STREAMS, WATERCOURSES, WETLANDS & PONDS	23,306 S.F.	0	0
POND SHORELINE	0	0	0
WETLAND MARGIN	0*	0*	0*
RIPIARIAN CORRIDOR	0*	0*	0*

*SUPERCEDED BY MORE RESTRICTIVE RESOURCE

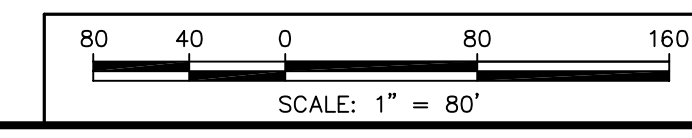
SOILS

- Bo BOWMANVILLE ANAERS SILT LOAM
0-3% SLOPES; MODERATELY ERODED
- LhB LEHIGH SILT LOAM
3-8% SLOPES; MODERATELY ERODED
- LhC LEHIGH SILT LOAM
8-15% SLOPES; MODERATELY ERODED
- UsB URBAN LAND-UDORTMENTS
SHALE AND SANDSTONE COMPLEX

EXISTING INLET AND ROCK CHANNEL TO BE CLEARED OF DEBRIS PRIOR TO BEGINNING OF SITE CONSTRUCTION.

EXISTING TREES TO BE REMOVED, CUL-DE-SAC TO BE CONVERTED TO THROUGH ROAD

WARNING: HIGH PRESSURE PIPELINE(S)
No Excavation or Construction in this area without contacting the State One Call Center and Sunoco Pipeline L.P. at 1-888-786-3260



"MOYER TRACT - FARMVIEW ACRES"

REVISION DATE:	DESCRIPTION:
JANUARY 25, 2018	REVISE PER TWP. ENG. (12/4/17), TWP. PLNR (12/5/17), TRAF. ENG. (12/5/17)
FEBRUARY 6, 2018	REVISE PER MCD PRE-APP (2/1/18), NPDES SUB

EXISTING FEATURES PLAN
PREPARED FOR
PAUL W. MOYER & SONS
SITUATE
NEW HANOVER TOWNSHIP
MONTGOMERY COUNTY PENNSYLVANIA

DATE:	OCTOBER 10, 2017
MANAGER:	RFI
DRAWN BY:	RFI
SCALE:	1" = 80'

Land Use Consultants
Land Planning • Engineering • Landscape Architecture • Land Surveying

Pick Eberhardt Mentis
INCORPORATED

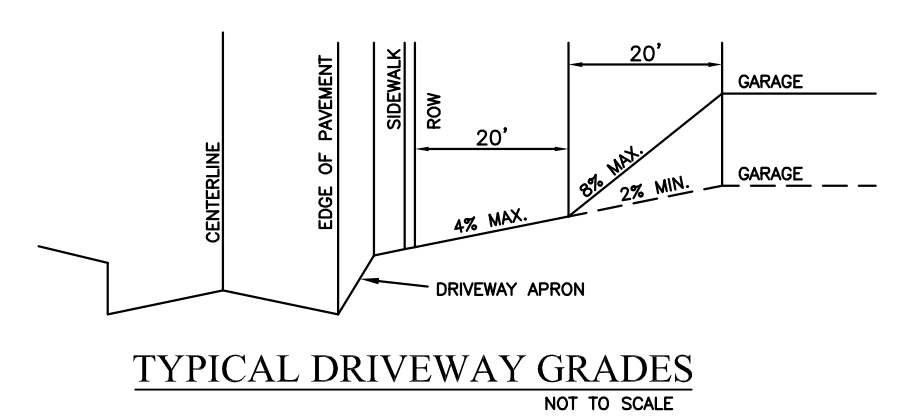
Suite Three
2771 Getzville Pike
Pittsburgh, PA 15203
215-541-4628
215-541-4023(Fax)
E-Mail: info@PEANCM.com

STOP-CALL BEFORE YOU DIG!
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WORK LOCATION NO.: 20172010155-000



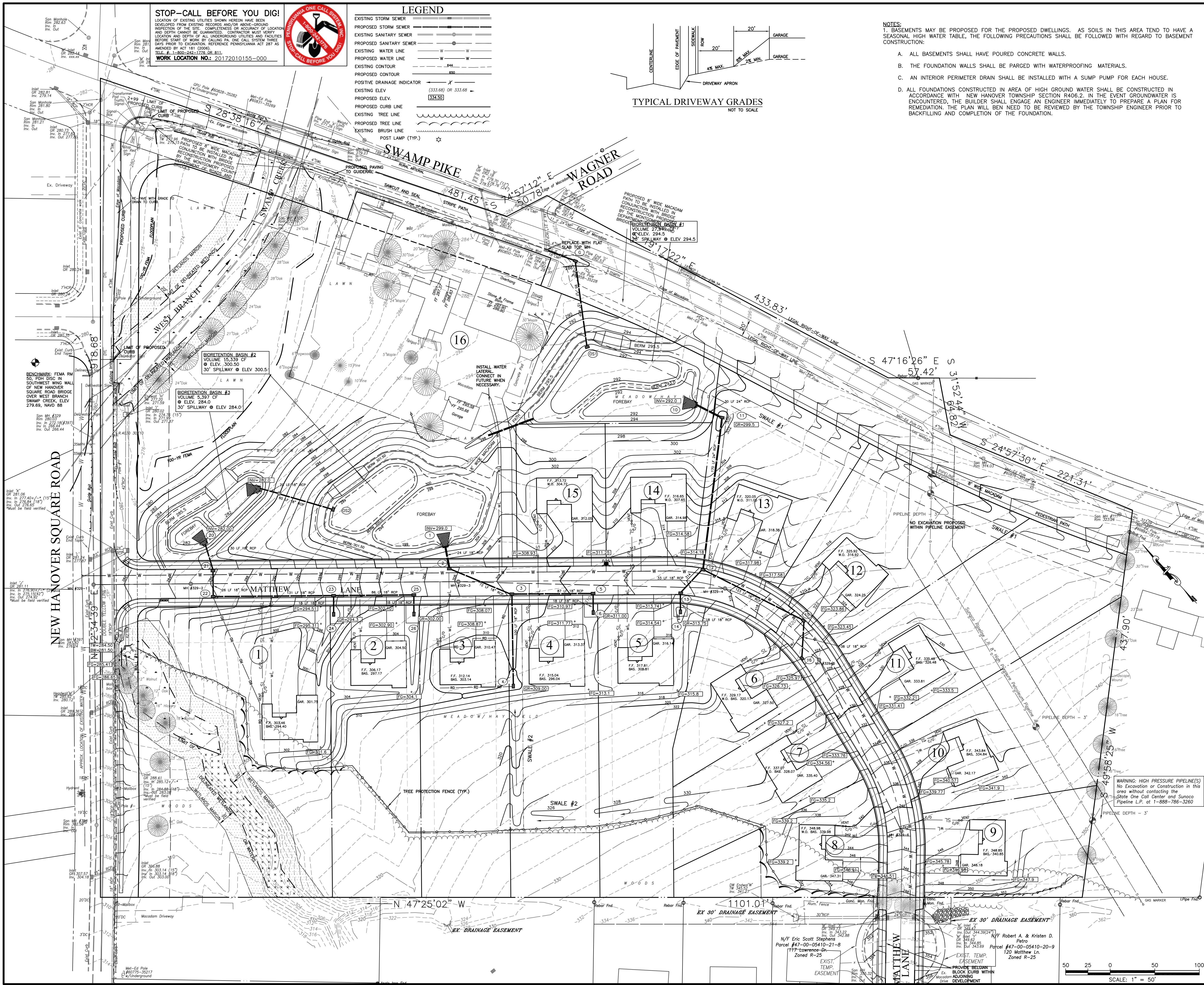
LEGEND

EXISTING STORM SEWER	---
EXISTING SANITARY SEWER	---
PROPOSED SANITARY SEWER	---
EXISTING WATER LINE	---
PROPOSED WATER LINE	---
EXISTING CONTOUR	---
PROPOSED CONTOUR	---
POSITIVE DRAINAGE INDICATOR	X
EXISTING ELEV	(333.68) OR 333.68
PROPOSED ELEV	(334.50)
PROPOSED CURB LINE	---
EXISTING TREE LINE	---
PROPOSED TREE LINE	---
EXISTING BRUSH LINE	---
POST LAMP (TYP.)	*



- NOTES:**
- BASEMENTS MAY BE PROPOSED FOR THE PROPOSED DWELLINGS. AS SOILS IN THIS AREA TEND TO HAVE A SEASONAL HIGH WATER TABLE, THE FOLLOWING PRECAUTIONS SHALL BE FOLLOWED WITH REGARD TO BASEMENT CONSTRUCTION:
 - ALL BASEMENTS SHALL HAVE POURED CONCRETE WALLS.
 - THE FOUNDATION WALLS SHALL BE PARGED WITH WATERPROOFING MATERIALS.
 - AN INTERIOR PERIMETER DRAIN SHALL BE INSTALLED WITH A SUMP PUMP FOR EACH HOUSE.
 - ALL FOUNDATIONS CONSTRUCTED IN AREA OF HIGH GROUND WATER SHALL BE CONSTRUCTED IN ACCORDANCE WITH NEW HANOVER TOWNSHIP SECTION R406.2. IN THE EVENT GROUNDWATER IS ENCOUNTERED, THE BUILDER SHALL ENGAGE AN ENGINEER IMMEDIATELY TO PREPARE A PLAN FOR REMEDIATION. THE PLAN WILL BE REVIEWED BY THE TOWNSHIP ENGINEER PRIOR TO BACKFILLING AND COMPLETION OF THE FOUNDATION.

- Sunoco Gas Pipeline Notes**
- In order to maintain immediate and unimpeded access to the pipeline, NO trees, shrubs, permanent structures (i.e. buildings, decks, sheds, swimming pools, inlets, drainage structures, hydrants, poles, etc.) bodies of water shall be placed within the pipeline right of way.
 - The depth earth cover over the pipelines shall be maintained and never changed in any manner without the express written consent of SPLP. In some cases additional cover may be required.
 - In areas where the pipeline currently has less than three feet (3') of cover, no grade cuts will be allowed. Cover over the pipeline shall be increased to a minimum of three feet (3') if there are proposed "improvements" over the pipeline or within the pipeline right-of-way. Proposed road crossings have additional requirements.
 - Proposed grading which will place the pipeline at depths greater than seven feet (7') shall require a SPLP Engineering Department written approval.
 - In areas where building are proposed within fifty feet (50') of the pipeline facility, vertical cover over the pipeline should be increased to a minimum of four feet (4"), (maximum of seven feet (7')).
 - The creation of steep slopes within the pipeline right of way that will hinder our access and maintenance shall be avoided. Maximum slope of 5 to 1 within the ROW.
 - The creation of storm water outfalls or other water management controls which would make the pipeline right-of-way more susceptible to erosion shall be avoided or mitigated. Proposed gabions and rip rap structures must adhere to the vertical one foot (1') vertical clearance requirement. Geotextile protection may also be required.
 - Drainage swales shall maintain a minimum of three feet (3') of vertical clearance between O.D. of the pipeline and the bottom of the swale. Additional protection may be required in order to minimize erosion susceptibility over the existing pipeline and across its associated right of way.
 - No fences will be allowed on the ROW without SPLP's prior written approval. Fences shall be easily removable and not to obstruct the view of the ROW for inspection purposes. No Masonry, brick, or stone fences will be allowed. Fences that are perpendicular to the pipeline(s) shall include a gate sixteen feet (16') in width for equipment to pass through. Fence posts shall not be placed within 5 feet of the pipeline(s). Fences that are parallel to the pipeline(s) shall be located outside the pipeline(s) ROW.
 - Proposed residential driveway crossings shall be designed to provide a minimum of three feet (3') (maximum of 7 feet) of vertical clearance between the O.D. of the pipeline and the finished surface. Excepted by SPLP's Engineering Department.
 - Proposed driveway/road crossings should be designed to be as perpendicular to the pipeline as possible. Proposed crossings of angles less than 30 degrees will not be accepted.
 - Proposed commercial entrance crossings shall be designed to provide a minimum of four feet (4') (maximum of seven feet (7')) of vertical clearance between the O.D. of the pipeline and the finished surface.
 - Proposed road ditches shall be designed to provide a minimum of three feet (3') (maximum of 7 feet) of vertical cover above the top of the pipeline and the bottom of the ditch.
 - Road under-drains shall maintain a two foot (2') or greater minimum vertical clearance from the top of the pipeline.
 - Construction of parking lots over the pipeline(s) shall not be permitted without SPLP's prior written approval in an Encroachment Agreement signed by SPLP from any and all future damages to the parking lot due to pipeline maintenance and repair.
 - Structures such as guide rails, concrete paving, sidewalks, curbing, etc. shall be designed in a manner that would facilitate their removal in the event of pipeline maintenance or an emergency repair.
 - Proposed crossings by utilities or underground structures shall be designed to pass under the pipeline unless otherwise approved by SPLP's Engineering Department.
 - Proposed utilities shall cross as perpendicular to the pipeline as possible.
 - All underground facilities or structures crossing the pipeline shall maintain a two foot (2') minimum vertical clearance between the O.D. of the pipeline and the proposed utility structure.
 - Utility crossings of the pipeline shall be shown on profile with field verified pipeline depths and proposed clearances clearly labeled.
 - Power Cable Installations
 - Secondary Crossings (less than 440 Volts): Must be installed UNDER the pipeline, (unless otherwise approved by SPLP's Engineering Department), provided the two-foot (2') minimum vertical clearance is maintained between the bottom of the pipeline and the top of the conduit. The cable must be placed in conduit for the width of the right-of-way and a drive post with an electric company marker shall be placed on each side of the pipeline right-of-way.
 - Primary Crossings (greater than 440 volts): Must be installed UNDER the pipeline, (unless otherwise approved by SPLP's Engineering Department), with a minimum two-foot six-inch (2'6") vertical clearance between the pipeline O.D. and the top of the conduit. The cable shall be placed in conduit for the width of the pipeline right-of-way. The conduit shall be protected by pouring of 2000 psi concrete, dyed red, into the ditch for a minimum distance of five feet (5') on both sides of the pipeline. The concrete must span the width of the ditch. A minimum two-foot (2') vertical clearance must be maintained between the O.D. of the pipeline and the top of the concrete.
 - For all electrical crossings, a drive post with an electric company marker shall be placed and maintained on each side of the pipeline right-of-way.
 - Open Trench Fiber Optic Mainline Cable Installations
 - The cable must be installed UNDER the pipeline with a minimum two-foot six-inch (2'6") vertical clearance between the bottom of the pipeline O.D. and the top of the fiber optic cable.
 - Fiber optic cables must be encased in six inches (6") of concrete, dyed orange, for a minimum distance of five feet (5') on both sides of the pipeline. The concrete must span the width of the ditch.
 - Fiber optic company markers must be installed and maintained at the crossing location on both sides of the pipeline right-of-way.
 - For bored or HDD installations see SXL Construction Guidelines section 2.7.
 - Cathodic Protection:
 - Cathodic protection is employed to control corrosion on SPLP pipelines and other facilities. Cathodic protection may have a detrimental (interference) effect on adjacent and crossing metallic structures.
 - Possible detrimental cathodic protection effects should be evaluated by the owner/developer with appropriate mitigative actions taken if these effects are found to be an issue for the owner/developer facility. Mitigation of detrimental effects from cathodic protection is possible by using non-metallic structure materials, loose barrier coatings, bonded coatings and/or bonded coatings with cathodic protection. However, it is best to consult with those knowledgeable in the field of cathodic protection and cathodic protection interference mitigation to determine what is best for the owner/developer structure and configuration.
 - If cathodic protection is planned for the owner/developer structure, the SPLP One Call Engineering Department must be notified to allow our corrosion control personnel to install appropriate test facilities and evaluate possible detrimental cathodic protection effects on the SPLP facilities.
 - Proposed Residential Development
 - Submit a full set of plans, including detail sheets, whereby SPLP's easement is depicted through the proposed development.
 - Proposed residential layout shall be designed not to impede access along the SPLP right of way.
 - Designated equipment crossing locations must be identified and prior to construction a list of equipment types and weights must be supplied so that stress calculations can be completed to ascertain what type of protection over the pipeline right of way will be required to allow the crossings.
 - Proposed landscaping, utilities, drainage, grading and roadways and means of excavation, compaction, blasting, and rock removal within the development must comply with all restrictions stated in this document.
 - Encroaching Party shall incorporate SPLP's Engineering and Construction Guidelines contained herein, into any of the Encroaching Parties design and construction drawings issued "FOR BID purpose". All plan drawings issued either "FOR BID" or "FOR Construction" will display the following statement on the drawings in areas around SPLP's pipeline(s).

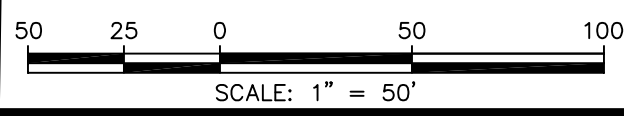
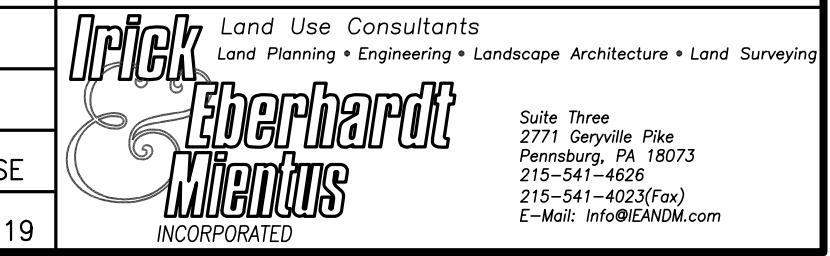


"MOYER TRACT - FARMVIEW ACRES"

REVISION DATE:	DESCRIPTION:
JANUARY 25, 2018	REVISE PER TWP. ENG. (12/4/17), TWP. PLANR (12/3/17), TRAF. ENG. (12/5/17)
MAY 4, 2018	TWP. ENG.(3/6/18), TWP. PLANR(3/6/18), TRAF. ENG.(3/7/18), ENTCO(3/7/18), WCCO(3/13/18)

SITE IMPROVEMENT PLAN
 PREPARED FOR
PAUL W. MOYER & SONS
 SITUATE
 NEW HANOVER TOWNSHIP
 MONTGOMERY COUNTY PENNSYLVANIA

DATE:	OCTOBER 10, 2017
MANAGER:	RFI 17-06
DRAWN BY:	RFI 17-06BASE
SCALE:	1" = 50'
SHEET:	3 OF 19



STOP-CALL BEFORE YOU DIG!
 LOCATION OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL SYSTEM THREE DAYS PRIOR TO EXCAVATION. REFERENCE PENNSYLVANIA ACT 287 AS AMENDED BY ACT 181 (2006).
 FILE # 1-500-242-1776 DR.B11
 WORK LOCATION NO.: 20172010155-000



LEGEND

EXISTING STORM SEWER	—
PROPOSED STORM SEWER	—
EXISTING SANITARY SEWER	—
PROPOSED SANITARY SEWER	—
EXISTING WATER LINE	—
PROPOSED WATER LINE	—
EXISTING CONTOUR	—
PROPOSED CONTOUR	—
POSITIVE DRAINAGE INDICATOR	—
EXISTING ELEV.	(333.68) OR 333.68
PROPOSED ELEV.	(334.50)
PROPOSED CURB LINE	—
EXISTING TREE LINE	—
PROPOSED TREE LINE	—
EXISTING BRUSH LINE	—
POST LAMP (TYP.)	—

SIGHT DISTANCE TABLE

LOCATION	REQUIRED SIGHT DISTANCE	AVAILABLE SIGHT DISTANCE
MATTHEW LANE LOOKING LEFT	440'	1000'+
MATTHEW LANE LOOKING RIGHT	350'	1000'+
NHS ROAD LOOKING AHEAD	190'	1000'+
NHS ROAD APPROACHING INTERSECTION	190'	480'



PHOTO "A" - EXISTING BUFFER

PLANTING SCHEDULE

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	QUANTITY		REMARKS
					SPRS.	TOTL	
EVERGREEN TREE	AC	Abies concolor	White Fir	8 ft. Min.	B & B		
	PA	Picea abies	Norway Spruce	8 ft. Min.	B & B		
	SS	Picea omorika	Serbian Spruce	8 ft. Min.	B & B		
	PP	Picea pungens	Colorado Spruce	8 ft. Min.	B & B		
	PM	Pseudotsuga menziesii (LxMillb.)	Douglas Fir	8 ft. Min.	B & B	55	
BUTTER CANOPY TREE	AR	Acer rubrum *	Red Maple	3 inch min.	B & B		
	PAB	Platanus occidentalis*	American Planetree	3 inch min.	B & B	122	
FLOWERING TREE	QB	Quercus rubra (borealis)*	Northern Red Oak	3 inch min.	B & B		
	ZS	Zelcova serrata 'Green Vase'	Green Vase Zelcova	3 inch min.	B & B		
	CK	Cornus kousa	Kousa Dogwood	1.5 in. Min.	Col.B & B	28	
	MS	Morus nigra	Black Mulberry	1.5 in. Min.	Col.B & B		
BASIN SHRUB	VI	Viburnum dentatum*	Arrowwood Viburnum	24" MIN.	B & B	86	SPACE SHRUBS ON 4' CENTERS IN BEDS 12" TO 24" HIGH MULCHED BRK MULCH
	VT	Viburnum trilobum*	American Cranberry Viburnum	24" MIN.	B & B		

* INDICATES A NATIVE SPECIES. 100% OF EVERGREENS AND DECIDUOUS TREES SHALL BE NATIVE SPECIES. 80% OF SHRUBS SHALL BE NATIVE SPECIES. LANDSCAPING IS CONSIDERED PERMANENT BMP FOR THIS DEVELOPMENT. REFER TO PCSM PLAN FOR SPECIES ON PLANTING LOCATIONS RELATIVE TO WATERSHEDS.

MEADOW SEEDING MIX

ERNMX-153 - Showy Northeast Native Wildflower & Grass Mix
 Mix Composition
 39.5% Schizanthus scoparium, Fort Indiantown Gap-PA Ecotype (Little Bluestem)
 23.1% Bouteloua curtipendula, 'Butte' (Sideoats Grama, PA Ecotype)
 14.0% Elymus virginicus, PA Ecotype (Virginia Wildrye, PA Ecotype)
 3.5% Echinochloa purpurea (Purple Coneflower)
 3.0% Chamaecrista fasciculata, PA Ecotype (Partridge Pea, PA Ecotype)
 1.0% Rudbeckia hirta (Black-eyed Susan)
 2.5% Coreopsis lanceolata (Lanceleaf Coreopsis)
 2.0% Asclepias tuberosa (Butterfly Milkweed)
 2.0% Penstemon digitalis, PA Ecotype (Tall White Beardtongue, PA Ecotype)
 1.5% Liatris spicata (Marsh (Dense) blazing Star (Spined Gayfeather))
 1.0% Aster laevis, NY Ecotype (Smooth Blue Aster, NY Ecotype)
 0.5% Rudbeckia fulgida var. fulgida, Northern VA Ecotype (Orange Coneflower, Northern VA Ecotype)
 0.5% Tradescantia ohiensis, PA Ecotype (Ohio Spiderwort, PA Ecotype)
 0.5% Zizia aurea, PA Ecotype (Golden Alexanders, PA Ecotype)
 0.4% Aster novae-angliae (Symphyotrichum n.), PA Ecotype (New England Aster, PA Ecotype)
 0.4% Aster oblongifolius, PA Ecotype (Aromatic Aster, PA Ecotype)
 0.4% Monarda fistulosa, Fort Indiantown Gap-PA Ecotype (Wild Bergamot, Fort Indiantown Gap-PA Ecotype)
 0.4% Senecio nemorosus, VA & WV Ecotype (Wild Senecio, VA & WV Ecotype)
 0.3% Pycnanthemum tenuifolium (Narrowleaf Mountainmint)
 0.3% Solidago nemoralis, PA Ecotype (Gray Goldenrod, PA Ecotype)
 0.2% Aster praeinermis, PA Ecotype (Zigzag Aster, PA Ecotype)
 0.2% Solidago juncea, PA Ecotype (Early Goldenrod, PA Ecotype)
 0.1% Baptisia tinctoria, PA Ecotype (Yellow Flower Indigo (Honeyflower), PA Ecotype)
 0.1% Penstemon hirsutus (Hairy Beardtongue)
 0.1% Senecio maritima (Maryland Senecio)

Seeding Rate: 20 lb per acre

TREE PROTECTION NOTES:

- GRADE CHANGES AND EXCAVATIONS SHALL NOT ENDOUR UPON THE TREE PROTECTION AREA.
- NO TOXIC MATERIALS SHALL BE STORED WITHIN 100 FEET OF A TREE PROTECTION ZONE, INCLUDING PETROLEUM BASED AND/OR DERIVED PRODUCTS.
- THE TREE PROTECTION AREA SHALL NOT BE BUILT UPON, NOR SHALL ANY MATERIALS BE STORED THEREIN TEMPORARILY OR PERMANENTLY. VEHICLES AND EQUIPMENT SHALL NOT BE PARKED IN THE TREE PROTECTION AREA.
- WHEN TREE STUMPS ARE LOCATED WITHIN 10 FEET OF THE TREE PROTECTION AREA, THE STUMPS SHALL BE REMOVED BY MEANS OF A STUMP GRINDER TO MINIMIZE THE EFFECT ON SURROUNDING ROOT SYSTEMS.
- TREE ROOTS WHICH MUST BE SEVERED SHALL BE CUT BY A BACK HOE OR SIMILAR EQUIPMENT ALIGNED PARALLEL TO THE TREE. THIS METHOD REDUCES THE LATERAL MOVEMENT OF THE ROOTS DURING EXCAVATION, WHICH IS DONE BY OTHER METHODS COULD DAMAGE THE INTERFERED ROOTS OF ADJACENT TREES.
- WITHIN FOUR HOURS OF ANY SEVERANCE OF ROOTS, ALL TREE ROOTS THAT HAVE BEEN EXPOSED AND/OR DAMAGED SHALL BE TRIMMED CLEANLY AND COVERED TEMPORARILY WITH MOIST PEAT MOSS, MOIST BURLAP OR OTHER MOST BIODEGRADABLE MATERIAL TO KEEP THEM FROM DRYING OUT UNTIL PERMANENT COVER CAN BE INSTALLED.
- SEDIMENT, RETENTION AND DETENTION BASINS SHALL NOT DISCHARGE INTO THE TREE PROTECTION AREA.
- BEFORE CONSTRUCTION, ALL TREES SCHEDULED TO REMAIN SHALL BE MARKED; WHERE GROUPS OF TREES EXIST, ONLY THE TREES ON THE EDGE NEED TO BE MARKED.
- A FOUR FOOT HIGH WOODEN SNOW FENCE MOUNTED ON 2" POSTS, LOCATED EIGHT FEET ON CENTER, SHALL BE PLACED ALONG THE BOUNDARY OF THE TREE PROTECTION AREA.
- WHEN THE WOODEN SNOW FENCE HAS BEEN INSTALLED, IT SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO COMMENCING CLEARING AND FURTHER CONSTRUCTION. THE FENCING ALONG THE TREE PROTECTION AREA SHALL BE MAINTAINED UNTIL ALL WORK/CONSTRUCTION HAS BEEN COMPLETED. ANY DAMAGE TO THE PROTECTIVE FENCING SHALL BE REPAIRED AND REPAIRED BEFORE FURTHER CONSTRUCTION SHALL BEGIN.
- TREES BEING REMOVED SHALL NOT BE FELLED, PUSHED OR PULLED INTO A TREE PROTECTION AREA OR INTO TREES THAT ARE TO BE RETAINED.

LANDSCAPING REQUIREMENTS

S.A.L.D.O. SECTION 22-820 STREET TREES
 REQUIREMENT - CANOPY TREES SHALL BE PLANTED AT INTERVALS OF NOT MORE THAN 50 FEET ALONG EACH SIDE OF THE STREETS
 PROPOSED - SUPERSEDED BY BUFFER REQUIREMENTS BELOW
 S.A.L.D.O. SECTION 22-829 BUFFER YARDS
 REQUIREMENT - B-1 USE ADJOINING MAJOR COLLECTOR (SWAMP PIKE & NEW HANOVER SQUARE ROAD) - CLASS "B" BUFFER REQUIRED - 1 CANOPY TREE PER 40 L.F. PLUS 1 FLOWERING TREE AND 1 EVERGREEN TREE PER 60 L.F.
 1867 L.F. WITHOUT ADEQUATE BUFFER - 42 CANOPY, 28 FLOWERING AND 28 EVERGREEN TREES REQUIRED
 REQUIREMENT - B-1 USE ADJOINING LOCAL STREET (MATTHEW LANE) - CLASS "A" BUFFER REQUIRED - 1 CANOPY TREE PER 40 L.F.
 2187 L.F. - 55 CANOPY TREES REQUIRED

TOTAL TREES REQUIRED:
 CANOPY TREE - 97
 FLOWERING TREE - 28
 EVERGREEN TREE - 28

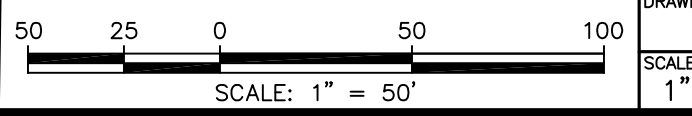
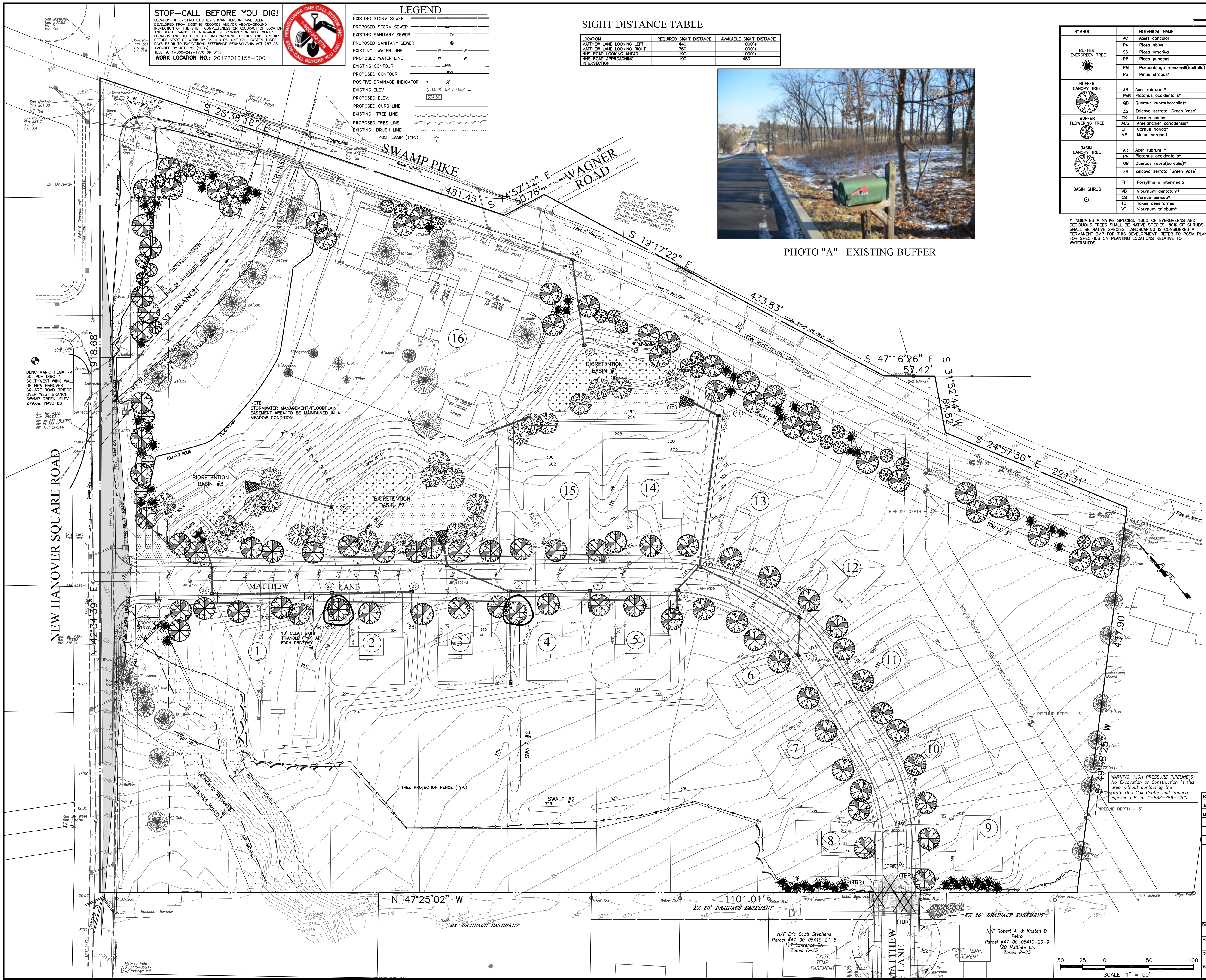
- PROPOSED CANOPY TREE
- PROPOSED FLOWERING TREE
- PROPOSED EVERGREEN TREE

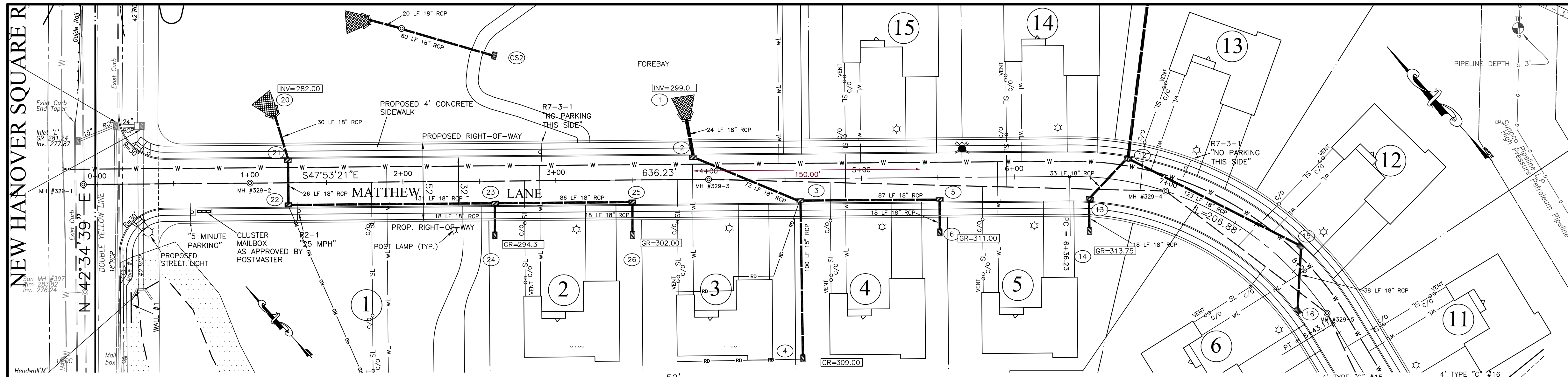
"MOYER TRACT - FARMVIEW ACRES"

REVISION DATE:	DESCRIPTION:
JANUARY 25, 2018	REVISE PER TWP. ENG. (12/4/17), TWP. PLANR (12/3/17), TRAF. ENG. (12/5/17)
MAY 4, 2018	TWP. ENG(3/6/18), TWP. PLANR(3/6/18), TRAF. ENG(3/7/18), ENTC(3/7/18), WCD(3/13/18)

LANDSCAPE PLAN
 PREPARED FOR
PAUL W. MOYER & SONS
 SITUATE
 NEW HANOVER TOWNSHIP
 MONTGOMERY COUNTY PENNSYLVANIA

DATE:	OCTOBER 10, 2017
MANAGER:	RFI
DRAWN BY:	RFI
SCALE:	1" = 50'
JOB NUMBER:	17-06
FILE NAME:	17-06BASE
SHEET:	4 OF 19

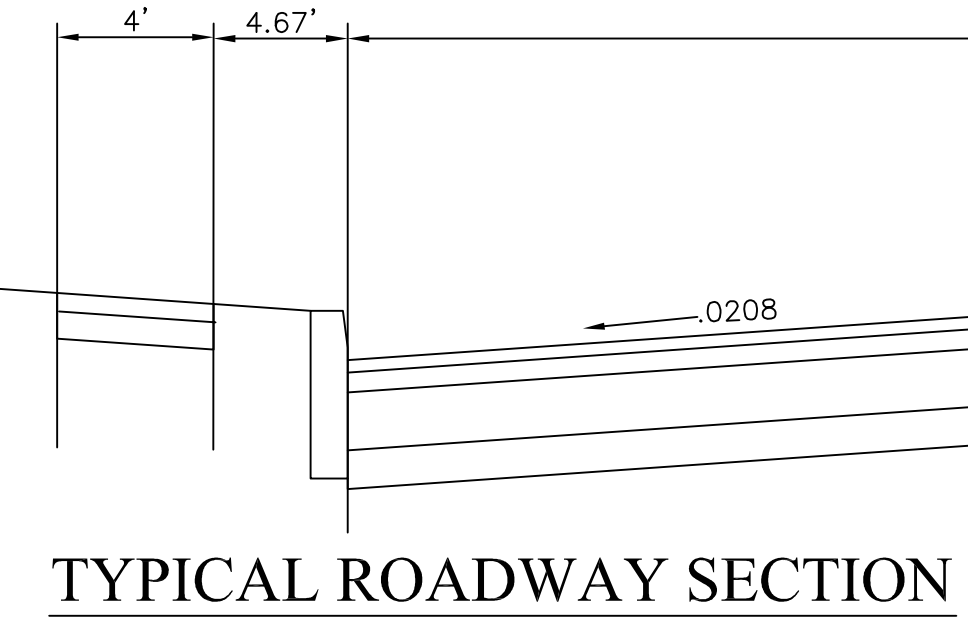




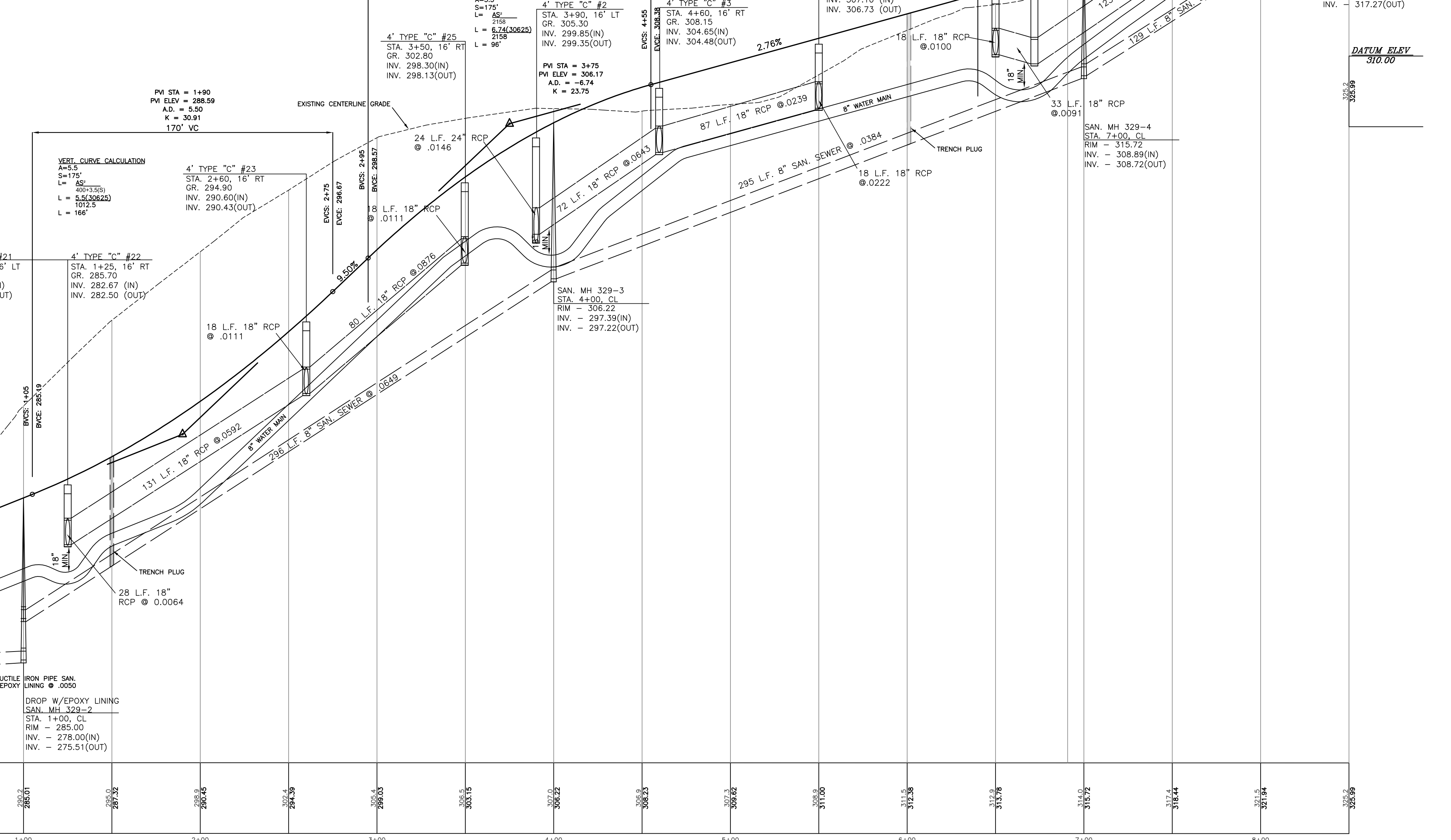
STOP—CALL BEFORE YOU DIG!

LOCATION OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL SYSTEM THREE DAYS PRIOR TO EXCAVATION. REFERENCE PENNSYLVANIA ACT 287 AS AMENDED BY ACT 181 (2006).
 TELE. # 1-800-242-1776 OR 811
WORK LOCATION NO.: 20172010155-000

- GENERAL CONSTRUCTION NOTES:**
- THRUST BLOCKS SHALL BE PROVIDED AT ALL LOCATIONS SPECIFIED IN STANDARD TECHNICAL SPECIFICATIONS FOR WATER DISTRIBUTION SYSTEMS, AQUA OF AMERICA, INC. THRUST BLOCK LOCATIONS ARE NOT SHOWN ON THE PLANS FOR CLARITY PURPOSES.
 - MINIMUM CLEARANCE FOR ALL PIPE CROSSINGS SHALL BE 18". 6" CONCRETE ENCASUREMENTS SHALL BE PROVIDED FOR 10 LF ON EITHER SIDE OF ANY CROSSING WHERE THE 18" CANNOT BE MAINTAINED IF APPROVED BY THE AUTHORITY OR WATER COMPANY AS APPLICABLE.
 - IT IS THE INTENT OF THE WATER MAIN DESIGN TO GRADUALLY DEFLECT THE WATER MAIN UNDER AND/OR OVER UTILITY CONFLICTS UNLESS A BEND IS CLEARLY LABELED. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE 2.5 DEGREES PER PIPE JOINT.
 - STORM SEWER INLET OFFSETS ARE TO CURB LINE FOR TYPE "C". EDGE OF PAVEMENT FOR TYPE "S" AND TO CENTER OF TYPE "M" INLETS.
 - STORM PIPE LENGTHS ARE THE HORIZONTAL DISTANCE BETWEEN THE OUTSIDE OF THE STRUCTURES. SANITARY PIPE LENGTHS ARE CENTER TO CENTER.
 - THE PROPOSED WATER CONSTRUCTION SHALL CONFORM TO THE STANDARD TECHNICAL SPECIFICATIONS FOR WATER DISTRIBUTION SYSTEMS, AQUA OF AMERICA, INC.
 - WHEREVER POSSIBLE, WATER AND SEWER LATERALS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 18" UNDER STORM SEWERS (SEE ITEM 2 ABOVE). NO SERVICES SHALL BE LOCATED UNDER INLETS. NO LANDSCAPING PLANTINGS SHALL BE ALLOWED WITHIN UTILITY AND STORM SEWER EASEMENTS.
 - A MINIMUM OF 10 FEET SHALL BE MAINTAINED BETWEEN LANDSCAPING TREES AND SHRUBS AND ALL WATER AND SEWER LATERALS AND FIRE HYDRANTS.
 - PROPOSED STREETS SHALL BE POSTED FOR A SPEED LIMIT OF 25 MPH.
 - NO UNSUITABLE MATERIAL IS TO BE USED IN ANY PORTION OF THE ROADWAY CONSTRUCTION. REMOVE ANY SUBGRADE THAT CANNOT BE PROPERLY COMPACTED AND THAT IS UNSUITABLE MATERIAL. UNDERCUTTING AND OR SUBGRADE STABILIZATION MAY BE REQUIRED.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ANY DEBRIS AND FLUSH OUT ALL EXISTING AND PROPOSED STORM DRAINAGE FACILITIES WITHIN THE PROJECT LIMITS AT THE COMPLETION OF CONSTRUCTION.
 - ANY DAMAGED OR SUBSTANDARD CURB WITHIN THE LIMITS OF WORK SHALL BE REPLACED AS NECESSARY.
 - ALL DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE TOWNSHIP ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE PRECONSTRUCTION MEETING.
 - SAFETY GRATES SHALL BE PROVIDED FOR THE ENDS IN ACCORDANCE WITH THE DETAIL ON THE SHEETS.
 - ROOF DRAINS AND SUMP PUMPS MUST CONNECT DIRECTLY TO STORM SEWER INLET WHEREVER POSSIBLE AND AS INDICATED ON THE PLANS. DISCHARGE POINT SHALL BE TO UNDISTURBED, STABLE GROUND AND INSTALLATION SHALL MINIMIZE REMOVAL OR DISTURBANCE OF EXISTING VEGETATION.
 - GRADING SHOWN HEREON IS SCHEMATIC WITH REGARD TO FINAL UNIT SIZE AND LOCATION ON EACH LOT. FINAL GRADING SHALL BE COMPLETED TO DIVERT WATER TO THE STREET, INSTEAD OF ONTO ANOTHER PROPERTY. REFER TO THE PCSM PLAN AND REPORT FOR EXPECTED DRAINAGE AREAS TO EACH INLET AND INTO THE BASIN.
 - WATER MAINS SHALL HAVE A MINIMUM OF FOUR (4) FEET OF COVER INCLUDING WATER SERVICES.
 - BASINS SHALL BE USED FOR INFILTRATION. REFER TO PCSM PLAN AND REPORT AND STAGING OF EARTHMOVING ACTIVITIES FOR SPECIFICATIONS AND MAINTENANCE DURING AND AFTER CONSTRUCTION. IF BEDROCK OR GROUNDWATER IS ENCOUNTERED DURING THE EXCAVATION OF THE INFILTRATION BASINS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE DESIGN ENGINEER FOR SUITABLE OPTIONS REGARDING INFILTRATION.
 - SEE OTHER PLAN SHEETS FOR ANY ADDITIONAL WATERLINE CONSTRUCTION NOTES AND DETAILS.
 - ALL SANITARY SEWER MAINS REQUIRE A MINIMUM OF 4' COVER UNLESS OTHERWISE APPROVED BY NEW HANOVER TOWNSHIP AUTHORITY.
 - WATER AND SANITARY SEWER LINES SHALL HAVE MINIMUM OF TEN (10) FEET HORIZONTAL SEPARATION UNLESS OTHERWISE APPROVED BY NEW HANOVER TOWNSHIP AUTHORITY.
 - SANITARY SEWER AND STORM SEWER LINES SHALL HAVE A MINIMUM OF FOUR (4) FEET HORIZONTAL SEPARATION UNLESS OTHERWISE APPROVED BY NEW HANOVER TOWNSHIP AUTHORITY.
 - SANITARY SEWER LINES SHALL HAVE A MINIMUM OF EIGHTEEN (18) INCH VERTICAL SEPARATION FROM ALL OTHER UTILITY LINES THAT IT CROSSES UNLESS OTHERWISE APPROVED BY NEW HANOVER TOWNSHIP AUTHORITY.
 - THE PROPOSED SANITARY SEWER WORK SHALL BE COMPLETED PER THE NEW HANOVER TOWNSHIP AUTHORITY'S STANDARDS.
 - HARD COPIES AND CAD FILES OF AS-BUILT DRAWINGS SHALL BE PROVIDED TO THE NHTA PRIOR TO DEDICATION.



TYPICAL ROADWAY SECTION



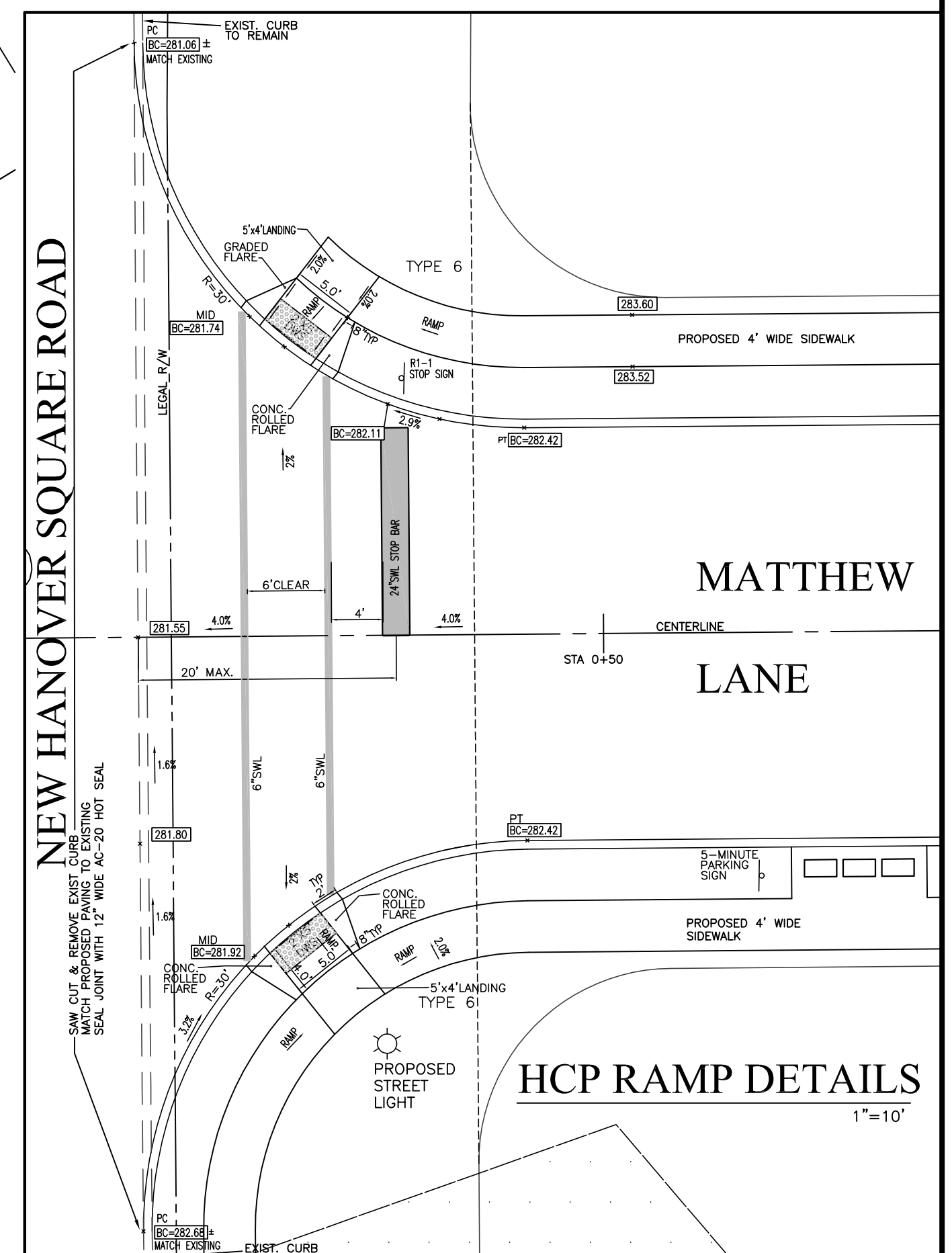
NOTE:
 THE SANITARY SEWER MAIN BETWEEN MH 329-1 AND 329-2 SHALL BE INSTALLED TO MAXIMIZE THE DISTANCE TO A JOINT USING A FULL LENGTH OF PIPE BELOW THE STORM MAIN AND THAT BENTONITE CLAY OR CONCRETE SHALL BE INSTALLED BETWEEN THE STORM AND SANITARY SEWER TO THREE FEET BEYOND EACH SIDE OF THE STORM MAIN.

SAN. MH 329-1
 W/EPOXY LINING (DOOHOUSE)
 STA. 0+05, CL
 RIM = 281.65
 INV. = 275.03*

SAN. MH 329-2
 W/EPOXY LINING
 STA. 1+00, CL
 RIM = 283.00
 INV. = 278.00(N)
 INV. = 275.51(OUT)

*ASSUMED INVERT ELEVATION WAS DERIVED FROM INVERTS OBTAINED FROM THE UPSTREAM AND DOWNSTREAM MANHOLES. MUST BE FIELD DETERMINED PRIOR TO CONSTRUCTION.

MATTHEW LANE PROFILE



HCP RAMP DETAILS

LEGEND

- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING WATER LINE
- PROPOSED WATER LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- POSITIVE DRAINAGE INDICATOR
- EXISTING ELEV.
- PROPOSED ELEV.
- EXISTING CURB LINE
- PROPOSED CURB LINE
- EXISTING TREE LINE
- PROPOSED TREE LINE
- EXISTING BRUSH LINE
- PROPOSED BRUSH LINE

SCALE: 1" = 40'

"MOYER TRACT - FARMVIEW ACRES"

REVISION DATE: JANUARY 25, 2018
 REVISION DATE: MAY 4, 2018

DESCRIPTION:
 REVISE PER TWP. ENG. (12/4/17), TWP. PLNR (12/5/17), TRAF. ENG. (12/5/17)
 TWP. ENDS(6/18), TWP. PLNR(6/18), TRAF. ENDS(7/18), ENTC(3/18), MCO(3/18/18)

CONSTRUCTION PROFILES
 PREPARED FOR
PAUL W. MOYER & SONS
 SITUATE
 NEW HANOVER TOWNSHIP
 MONTGOMERY COUNTY PENNSYLVANIA

DATE: OCTOBER 10, 2017
 MANAGER: RFI
 DRAWN BY: RFI
 SCALE: 1" = 40'

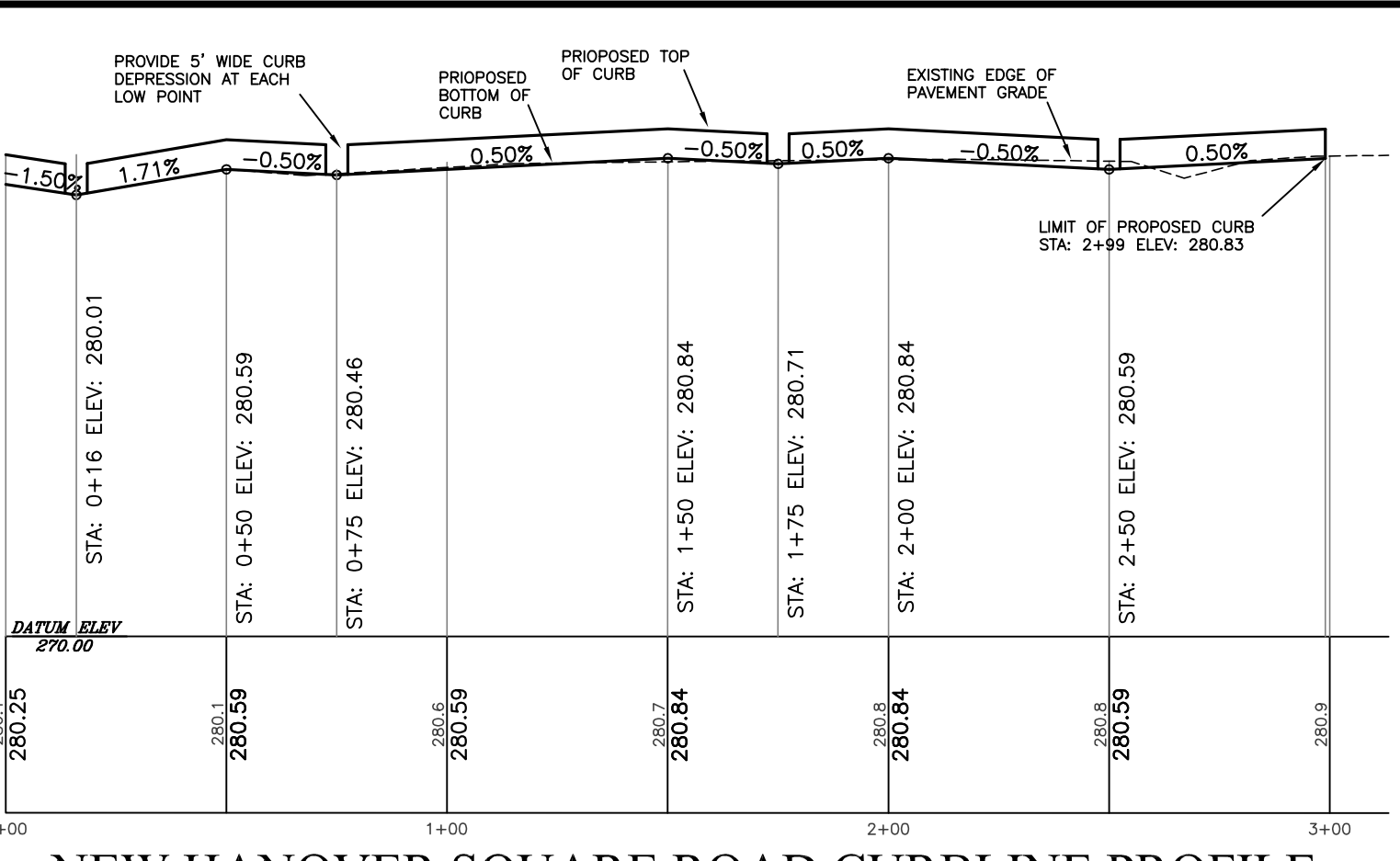
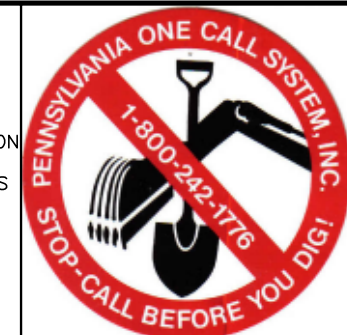
Land Use Consultants
 Land Planning • Engineering • Landscape Architecture • Land Surveying
Trick Eberhardt
Milantus
 INCORPORATED

Suite Three
 2771 Greyville Pike
 Pottsville, PA 18803
 717-541-4226
 717-541-4233(Fax)
 E-Mail: info@EANDM.com

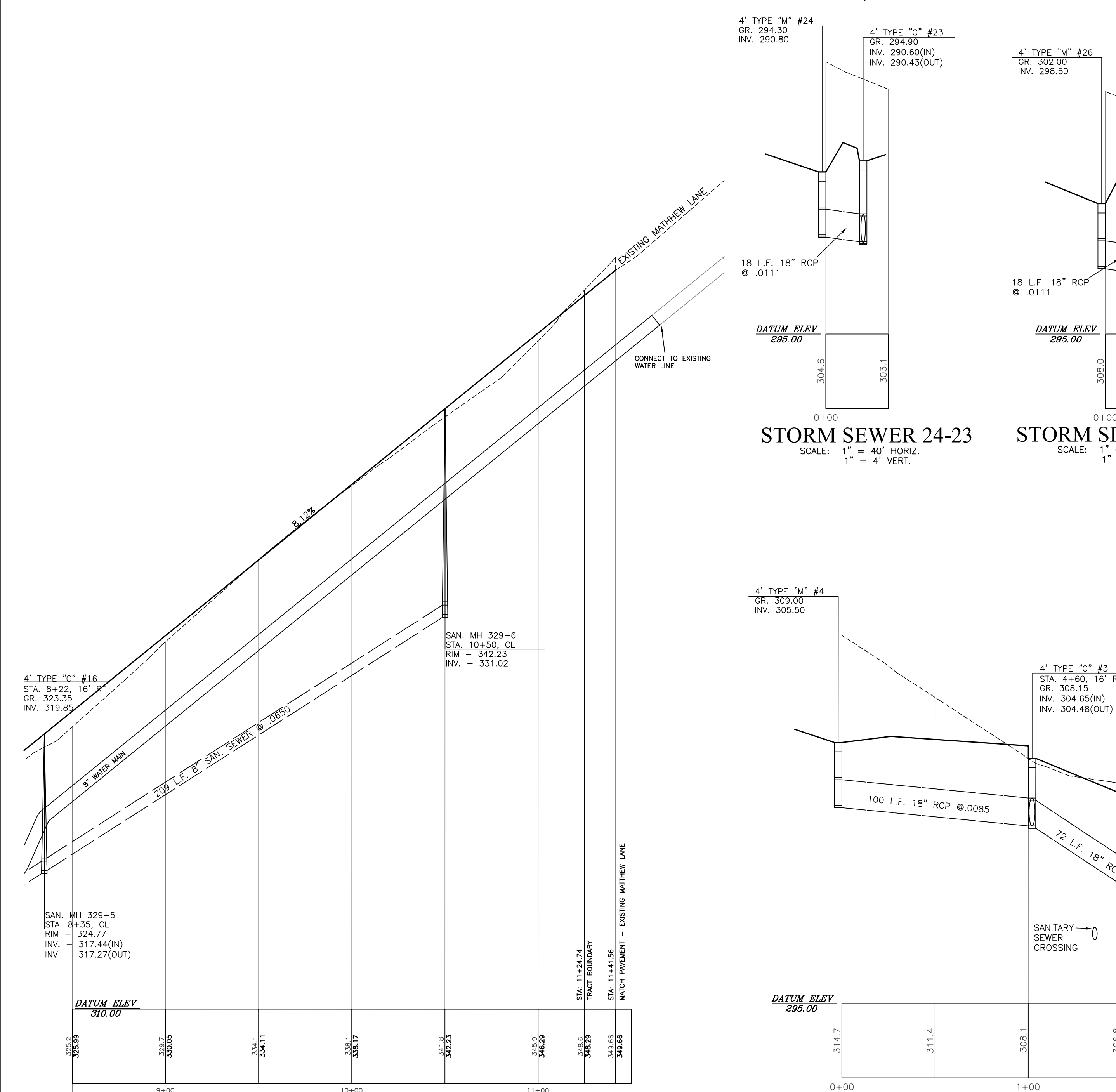
SHEET: 5 OF 19

STOP-CALL BEFORE YOU DIG!

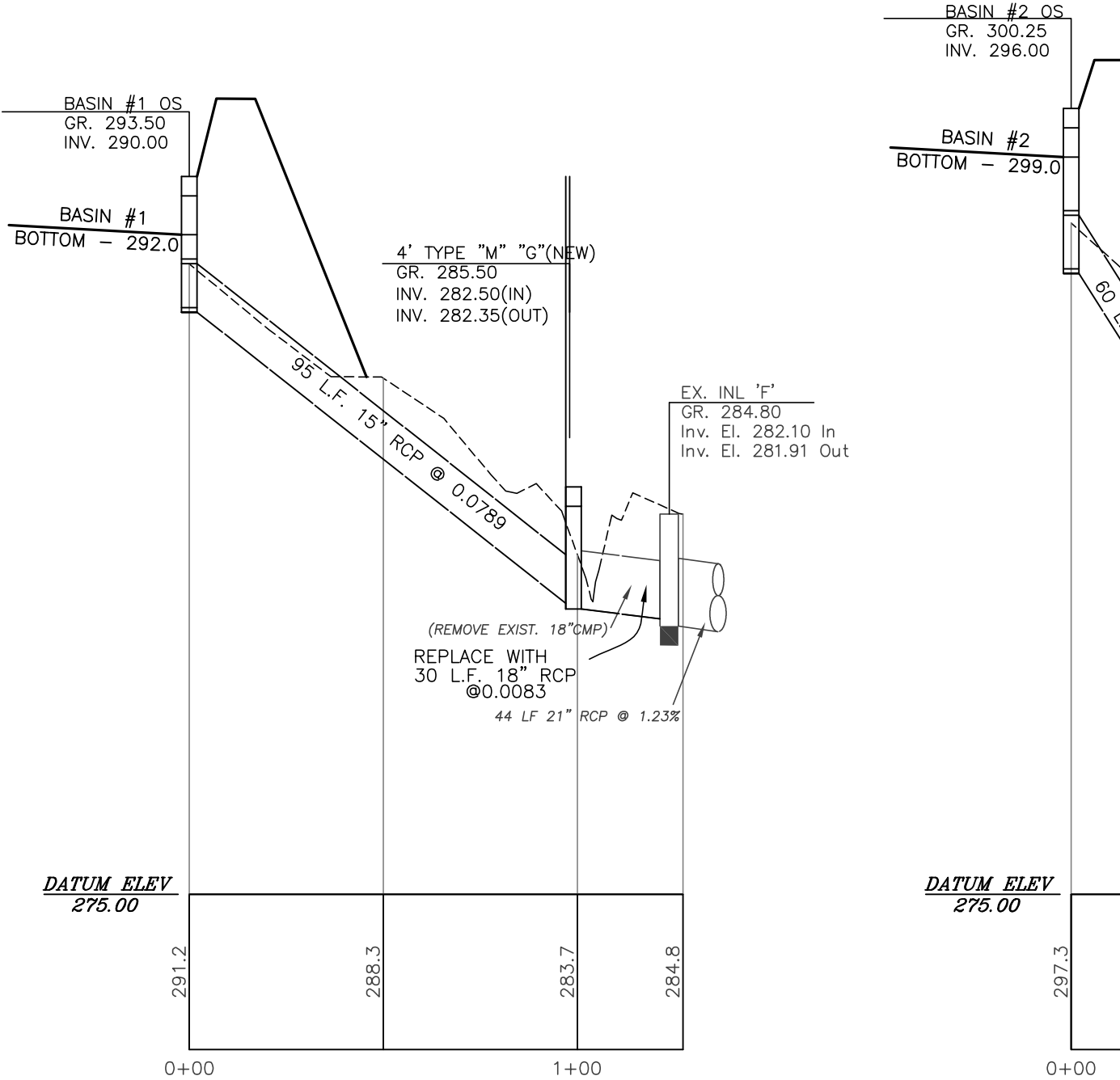
LOCATION OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL SYSTEM THREE DAYS PRIOR TO EXCAVATION. REFERENCE PENNSYLVANIA ACT 287 AS AMENDED BY ACT 181 (2006).
 TEL: # 1-800-242-1776 OR 811
WORK LOCATION NO.: 20172010155-000



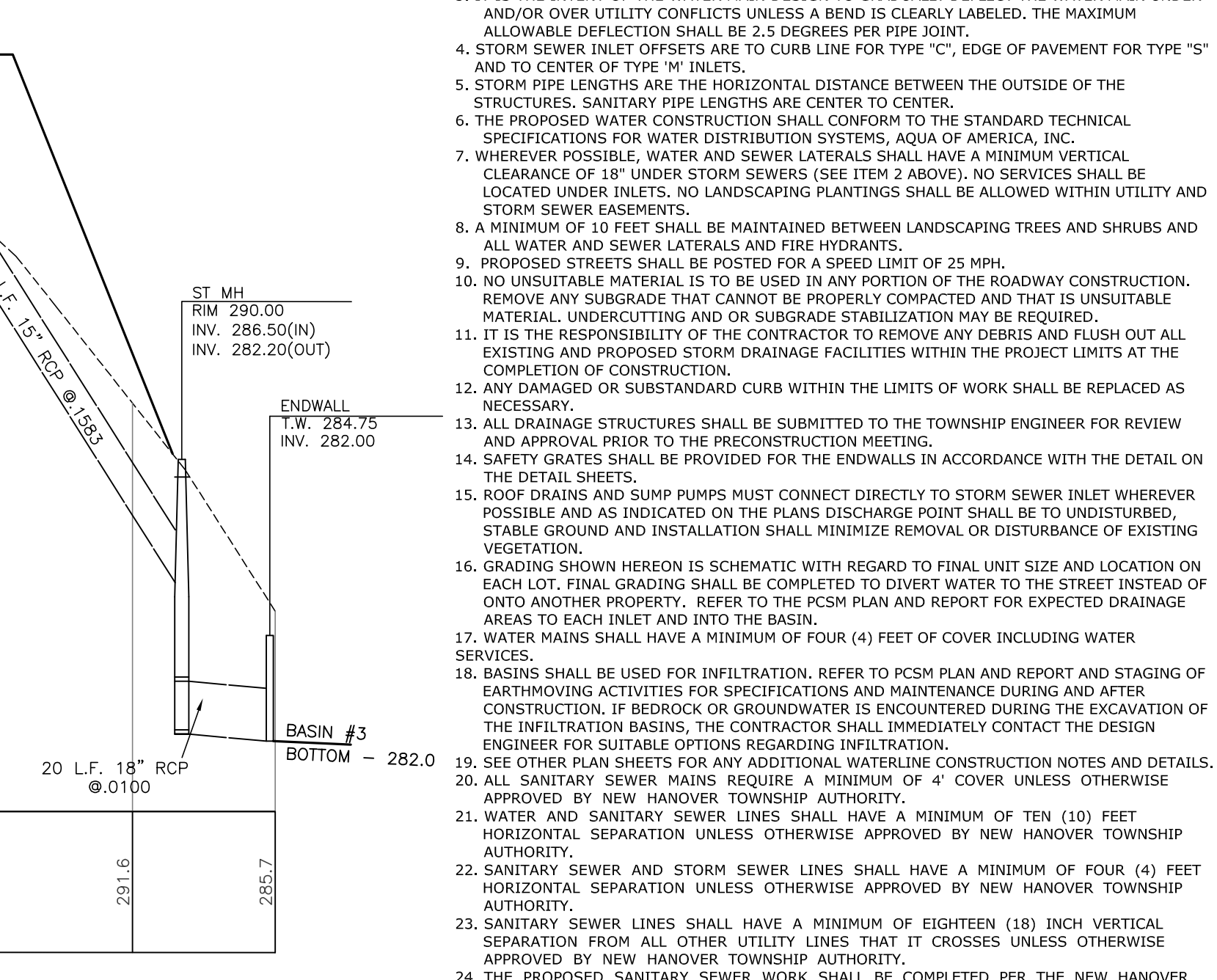
NEW HANOVER SQUARE ROAD CURBLINE PROFILE



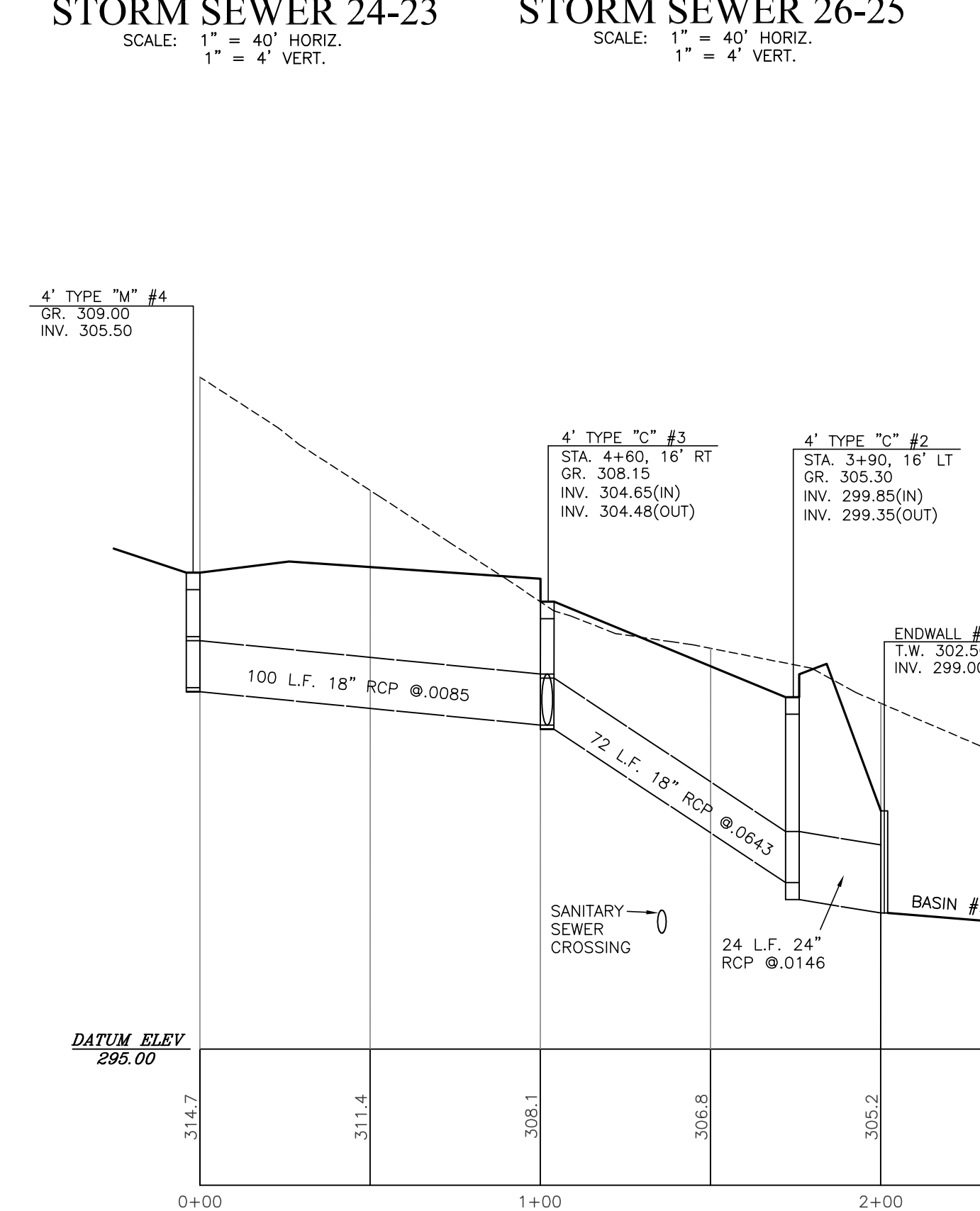
MATTHEW LANE PROFILE SCALE: 1" = 40' HORIZ. 1" = 4' VERT.



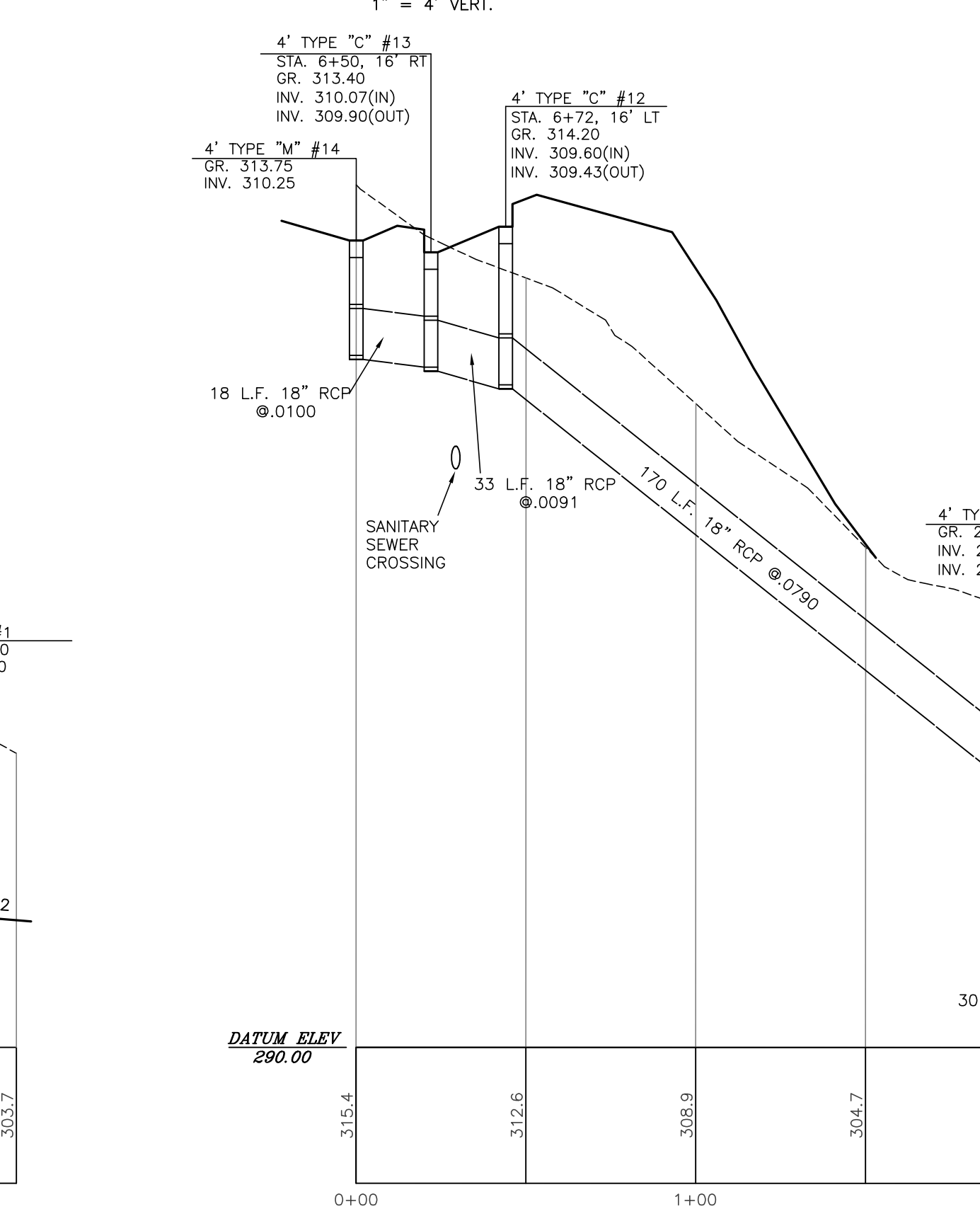
STORM SEWER OS1 - G SCALE: 1" = 40' HORIZ. 1" = 4' VERT.



STORM SEWER OS2 - EW SCALE: 1" = 40' HORIZ. 1" = 4' VERT.



STORM SEWER 4-1 SCALE: 1" = 40' HORIZ. 1" = 4' VERT.



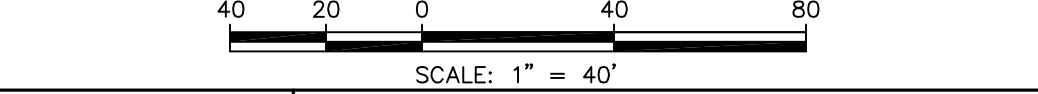
STORM SEWER 14-10 SCALE: 1" = 40' HORIZ. 1" = 4' VERT.

- GENERAL CONSTRUCTION NOTES:**
- THRUST BLOCKS SHALL BE PROVIDED AT ALL LOCATIONS SPECIFIED IN STANDARD TECHNICAL SPECIFICATIONS FOR WATER DISTRIBUTION SYSTEMS, AQUA OF AMERICA, INC. THRUST BLOCK LOCATIONS ARE NOT SHOWN ON THE PLANS FOR CLARITY PURPOSES.
 - MINIMUM CLEARANCE FOR ALL PIPE CROSSINGS SHALL BE 18", 6" CONCRETE ENCASEMENTS SHALL BE PROVIDED FOR 10 LF ON EITHER SIDE OF ANY CROSSING WHERE THE 18" CANNOT BE MAINTAINED IF APPROVED BY THE AUTHORITY OR WATER COMPANY AS APPLICABLE.
 - IT IS THE INTENT OF THE WATER MAIN DESIGN TO GRADUALLY DEFLECT THE WATER MAIN UNDER AND/OR OVER UTILITY CONFLICTS UNLESS A BEND IS CLEARLY LABELED. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE 2.5 DEGREES PER PIPE JOINT.
 - STORM SEWER INLET OFFSETS ARE TO CURB LINE FOR TYPE "C", EDGE OF PAVEMENT FOR TYPE "S" AND TO CENTER OF TYPE "W" INLETS.
 - STORM PIPE LENGTHS ARE THE HORIZONTAL DISTANCE BETWEEN THE OUTSIDE OF THE STRUCTURES. SANITARY PIPE LENGTHS ARE CENTER TO CENTER.
 - THE PROPOSED WATER CONSTRUCTION SHALL CONFORM TO THE STANDARD TECHNICAL SPECIFICATIONS FOR WATER DISTRIBUTION SYSTEMS, AQUA OF AMERICA, INC.
 - WHEREVER POSSIBLE, WATER AND SEWER LATERALS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 18" UNDER STORM SEWERS (SEE ITEM 2 ABOVE). NO SERVICES SHALL BE LOCATED UNDER INLETS. NO LANDSCAPING PLANTINGS SHALL BE ALLOWED WITHIN UTILITY AND STORM SEWER EASEMENTS.
 - A MINIMUM OF 10 FEET SHALL BE MAINTAINED BETWEEN LANDSCAPING TREES AND SHRUBS AND ALL WATER AND SEWER LATERALS AND FIRE HYDRANTS.
 - NO UNSUITABLE MATERIAL IS TO BE USED IN ANY PORTION OF THE ROADWAY CONSTRUCTION. REMOVE ANY SUBGRADE THAT CANNOT BE PROPERLY COMPACTED AND THAT IS UNSUITABLE MATERIAL. UNDERCUTTING AND OR SUBGRADE STABILIZATION MAY BE REQUIRED.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ANY DEBRIS AND FLUSH OUT ALL EXISTING AND PROPOSED STORM DRAINAGE FACILITIES WITHIN THE PROJECT LIMITS AT THE COMPLETION OF CONSTRUCTION.
 - ANY DAMAGED OR SUBSTANDARD CURB WITHIN THE LIMITS OF WORK SHALL BE REPLACED AS NECESSARY.
 - ALL DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE TOWNSHIP ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE PRECONSTRUCTION MEETING.
 - SAFETY GRATES SHALL BE PROVIDED FOR THE ENDWALLS IN ACCORDANCE WITH THE DETAIL ON THE DETAIL SHEETS.
 - ROOF DRAINS AND SUMP PUMPS MUST CONNECT DIRECTLY TO STORM SEWER INLET WHEREVER POSSIBLE AND AS INDICATED ON THE PLANS DISCHARGE POINT SHALL BE TO UNDISTURBED, STABLE GROUND AND INSTALLATION SHALL MINIMIZE REMOVAL OR DISTURBANCE OF EXISTING VEGETATION.
 - GRADING SHOWN HEREON IS SCHEMATIC WITH REGARD TO FINAL UNIT SIZE AND LOCATION ON EACH LOT. FINAL GRADING SHALL BE COMPLETED TO DIVERT WATER TO THE STREET INSTEAD OF ONTO ANOTHER PROPERTY. REFER TO THE PCSM PLAN AND REPORT FOR EXPECTED DRAINAGE AREAS TO EACH INLET AND INTO THE BASIN.
 - WATER MAINS SHALL HAVE A MINIMUM OF FOUR (4) FEET OF COVER INCLUDING WATER SERVICES.
 - BASINS SHALL BE USED FOR INFILTRATION. REFER TO PCSM PLAN AND REPORT AND STAGING OF EARTHMOVING ACTIVITIES FOR SPECIFICATIONS AND MAINTENANCE DURING AND AFTER CONSTRUCTION. IF BEDROCK OR GROUNDWATER IS ENCOUNTERED DURING THE EXCAVATION OF THE INFILTRATION BASINS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE DESIGN ENGINEER FOR SUITABLE OPTIONS REGARDING INFILTRATION.
 - SEE OTHER PLAN SHEETS FOR ANY ADDITIONAL WATERLINE CONSTRUCTION NOTES AND DETAILS.
 - ALL SANITARY SEWER MAINS REQUIRE A MINIMUM OF 4' COVER UNLESS OTHERWISE APPROVED BY NEW HANOVER TOWNSHIP AUTHORITY.
 - WATER AND SANITARY SEWER LINES SHALL HAVE A MINIMUM OF TEN (10) FEET HORIZONTAL SEPARATION UNLESS OTHERWISE APPROVED BY NEW HANOVER TOWNSHIP AUTHORITY.
 - SANITARY SEWER AND STORM SEWER LINES SHALL HAVE A MINIMUM OF FOUR (4) FEET HORIZONTAL SEPARATION UNLESS OTHERWISE APPROVED BY NEW HANOVER TOWNSHIP AUTHORITY.
 - SANITARY SEWER LINES SHALL HAVE A MINIMUM OF EIGHTEEN (18) INCH VERTICAL SEPARATION FROM ALL OTHER UTILITY LINES THAT IT CROSSES UNLESS OTHERWISE APPROVED BY NEW HANOVER TOWNSHIP AUTHORITY.
 - ALL SANITARY SEWER WORK SHALL BE COMPLETED PER THE NEW HANOVER TOWNSHIP AUTHORITY'S STANDARDS.
 - HARD COPIES AND CAD FILES OF AS-BUILT DRAWINGS SHALL BE PROVIDED TO THE NHTA PRIOR TO DEDICATION.

LEGEND

EXISTING STORM SEWER	---
PROPOSED STORM SEWER	---
EXISTING SANITARY SEWER	---
PROPOSED SANITARY SEWER	---
EXISTING WATER LINE	---
PROPOSED WATER LINE	---
EXISTING CONTOUR	---
PROPOSED CONTOUR	---
POSITIVE DRAINAGE INDICATOR	---
EXISTING ELEV.	(333.68) OR 333.68
PROPOSED ELEV.	(334.50)
PROPOSED CURB LINE	---
EXISTING TREE LINE	---
PROPOSED TREE LINE	---
EXISTING BRUSH LINE	---

"MOYER TRACT - FARMVIEW ACRES"



REVISION DATE:	DESCRIPTION:
JANUARY 25, 2018	REVISE PER TWP. ENG. (12/4/17), TWP. PLNR (12/5/17), TRAF. ENG. (12/5/17)
MAY 4, 2018	TWP. ENG.(4/18), TWP. PLNR(5/18), TRAF. ENG.(7/18), ENTH(3/7/18), MCCR(1/13/18)

CONSTRUCTION PROFILES
 PREPARED FOR
PAUL W. MOYER & SONS
 SITUATE
 NEW HANOVER TOWNSHIP
 MONTGOMERY COUNTY PENNSYLVANIA

DATE:	OCTOBER 10, 2017	Land Use Consultants
MANAGER:	RFI	2771 Gearyville Pike Perryville, PA 17033 215-541-4626 215-541-4023(fax) E-Mail: info@PCNDM.com
DRAWN BY:	RFI	INCORPORATED
SCALE:	1" = 40'	6 OF 19

ENTECH ENGINEERING
NEW HANOVER TOWNSHIP AUTHORITY
STANDARD DETAIL
TYPICAL BACKFILL TRENCH RESTORATION DETAIL
DATE: FEB. 2014
SCALE: N.T.S.
DRAWING NO.: 4892.15

ENTECH ENGINEERING
NEW HANOVER TOWNSHIP AUTHORITY
STANDARD DETAIL
CONCRETE CRADLE DETAIL
DATE: FEB. 2014
SCALE: N.T.S.
DRAWING NO.: 4892.15

ENTECH ENGINEERING
NEW HANOVER TOWNSHIP AUTHORITY
STANDARD DETAIL
CONCRETE ENCASEMENT DETAIL
DATE: FEB. 2014
SCALE: N.T.S.
DRAWING NO.: 4892.15

ENTECH ENGINEERING
NEW HANOVER TOWNSHIP AUTHORITY
STANDARD DETAIL
FLAT TOP MANHOLE DETAIL
DATE: FEB. 2014
SCALE: N.T.S.
DRAWING NO.: 4892.15

ENTECH ENGINEERING
NEW HANOVER TOWNSHIP AUTHORITY
STANDARD DETAIL
TYPICAL MANHOLE BASE CHANNEL CONFIGURATION DETAIL
DATE: FEB. 2014
SCALE: N.T.S.
DRAWING NO.: 4892.15

ENTECH ENGINEERING
NEW HANOVER TOWNSHIP AUTHORITY
STANDARD DETAIL
PRECAST REINFORCED CONCRETE MANHOLE BASE DETAIL
DATE: FEB. 2014
SCALE: N.T.S.
DRAWING NO.: 4892.15

ENTECH ENGINEERING
NEW HANOVER TOWNSHIP AUTHORITY
STANDARD DETAIL
OUTSIDE DROP MANHOLE DETAIL
DATE: FEB. 2014
SCALE: N.T.S.
DRAWING NO.: 4892.15

ENTECH ENGINEERING
NEW HANOVER TOWNSHIP AUTHORITY
STANDARD DETAIL
MANHOLE STEPS DETAIL
DATE: FEB. 2014
SCALE: N.T.S.
DRAWING NO.: 4892.15

ENTECH ENGINEERING
NEW HANOVER TOWNSHIP AUTHORITY
STANDARD DETAIL
CAST IRON MANHOLE FRAME AND COVER DETAIL
DATE: FEB. 2014
SCALE: N.T.S.
DRAWING NO.: 4892.15

ENTECH ENGINEERING
NEW HANOVER TOWNSHIP AUTHORITY
STANDARD DETAIL
INSERTION MANHOLE DETAIL
DATE: FEB. 2014
SCALE: N.T.S.
DRAWING NO.: 4892.15

ENTECH ENGINEERING
NEW HANOVER TOWNSHIP AUTHORITY
STANDARD DETAIL
CAST IN PLACE MANHOLE BASE ON EXISTING SEWER DETAIL
DATE: FEB. 2014
SCALE: N.T.S.
DRAWING NO.: 4892.15

ENTECH ENGINEERING
NEW HANOVER TOWNSHIP AUTHORITY
STANDARD DETAIL
MANHOLE FRAME COVER PROTECTION DETAIL (TEMPORARY PAVING)
DATE: FEB. 2014
SCALE: N.T.S.
DRAWING NO.: 4892.15

ENTECH ENGINEERING
NEW HANOVER TOWNSHIP AUTHORITY
STANDARD DETAIL
LATERAL DETAIL
DATE: FEB. 2014
SCALE: N.T.S.
DRAWING NO.: 4892.15

ENTECH ENGINEERING
NEW HANOVER TOWNSHIP AUTHORITY
STANDARD DETAIL
TYPICAL HOUSE CONNECTION DETAIL
DATE: FEB. 2011
SCALE: N.T.S.
DRAWING NO.: 4892.15

ENTECH ENGINEERING
NEW HANOVER TOWNSHIP AUTHORITY
STANDARD DETAIL
TRAP AND VENT PROTECTION BOX DETAIL
DATE: FEB. 2014
SCALE: N.T.S.
DRAWING NO.: 4892.15

SHOP DRAWINGS FOR ALL STRUCTURES AND MATERIALS TO BE USED FOR CONSTRUCTION OF ALL IMPROVEMENTS SHALL BE SUBMITTED PRIOR TO CONSTRUCTION

"MOYER TRACT - FARMVIEW ACRES"

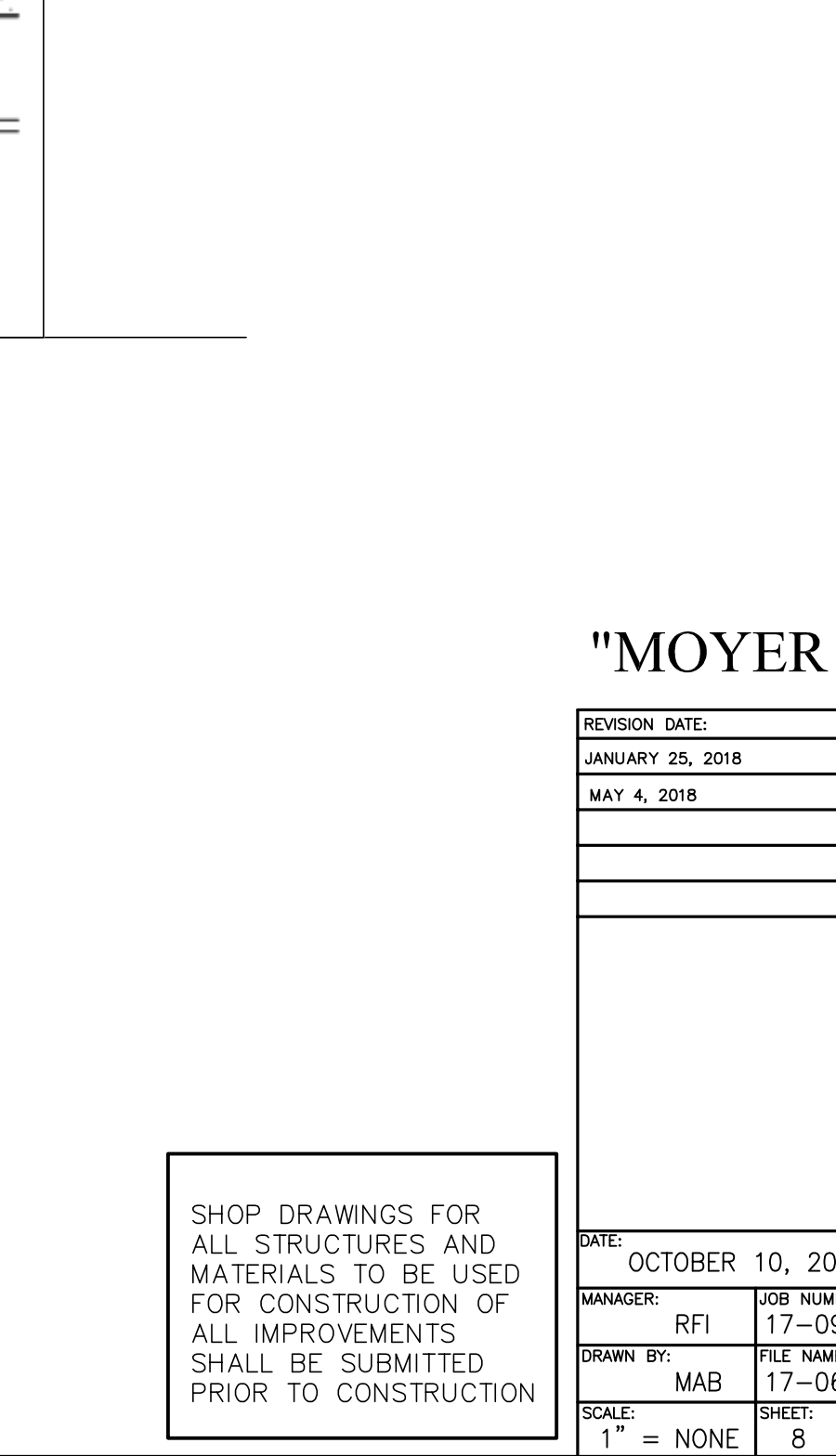
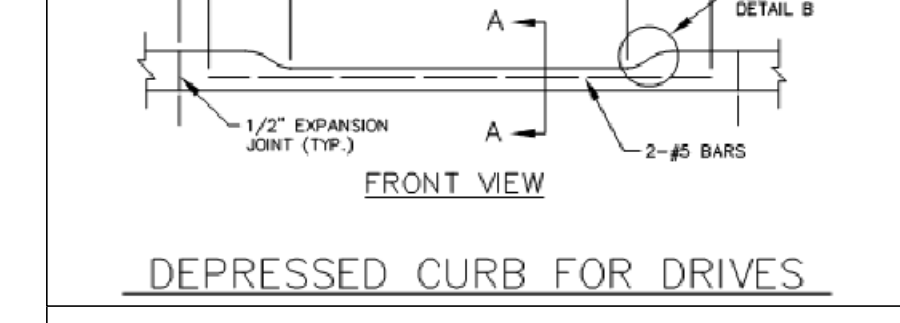
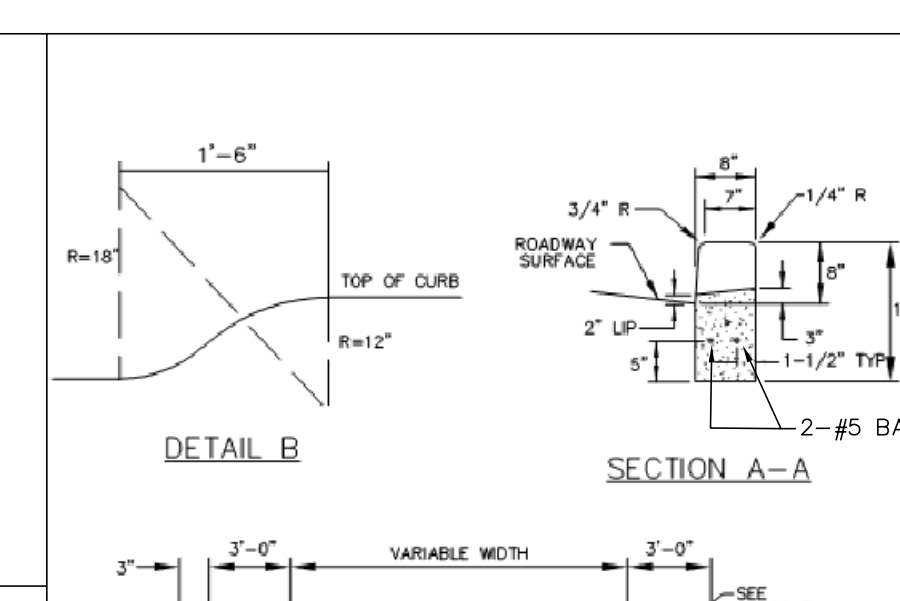
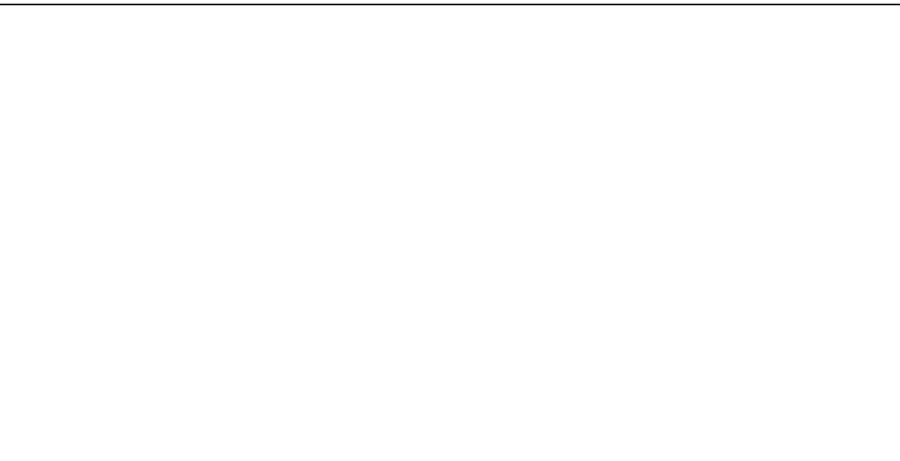
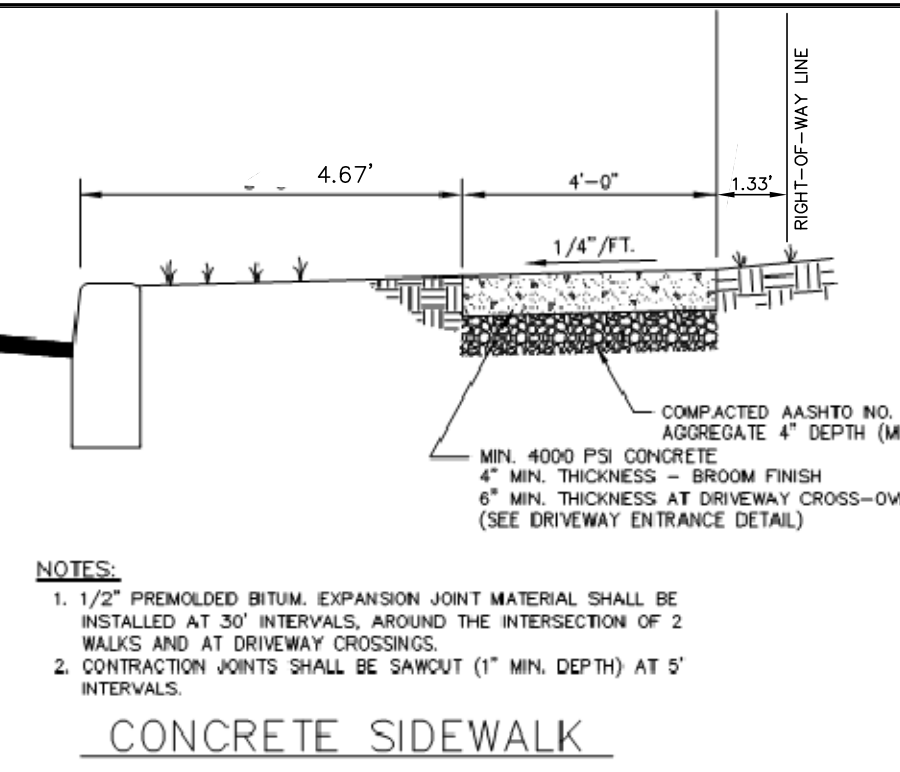
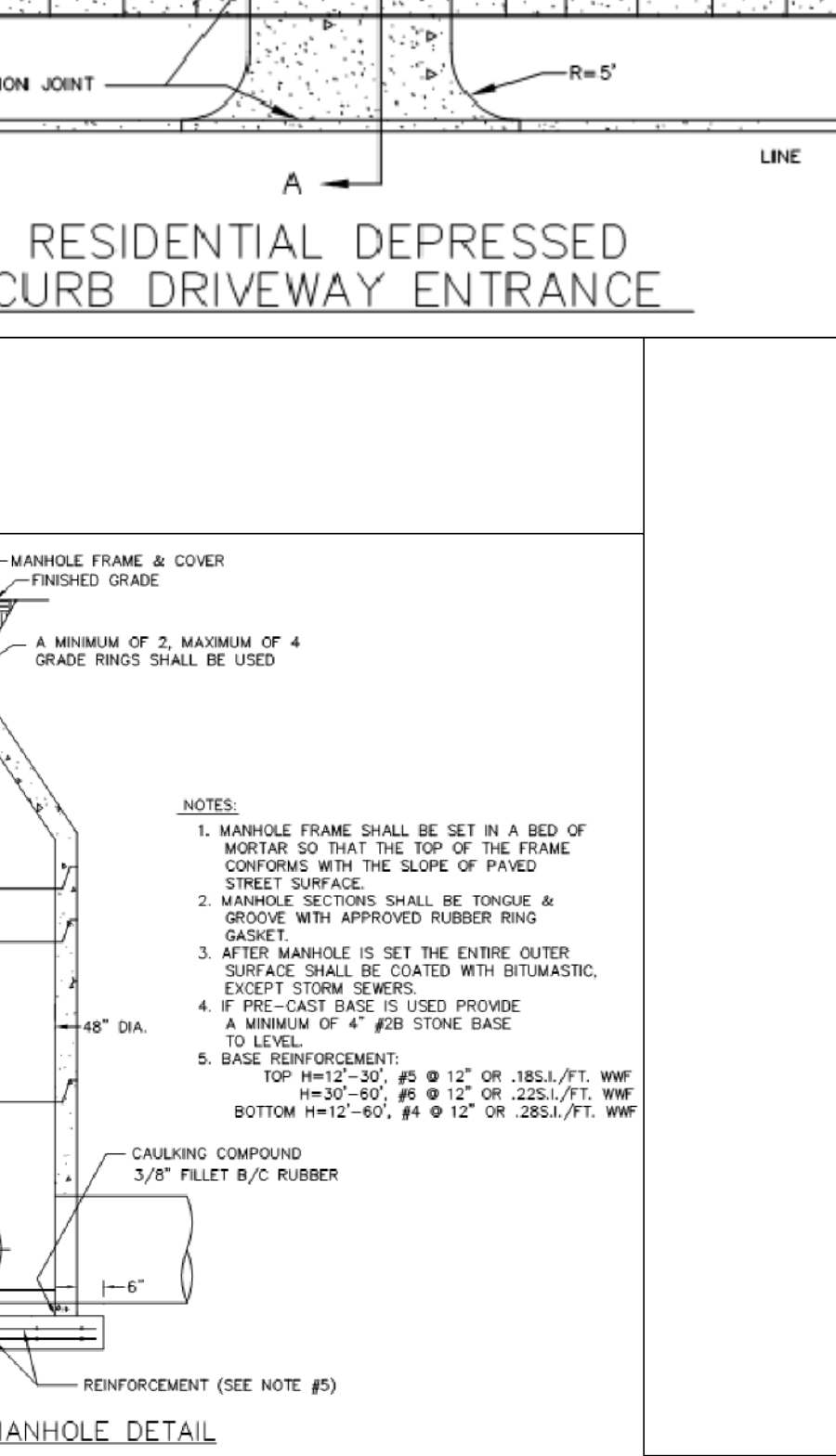
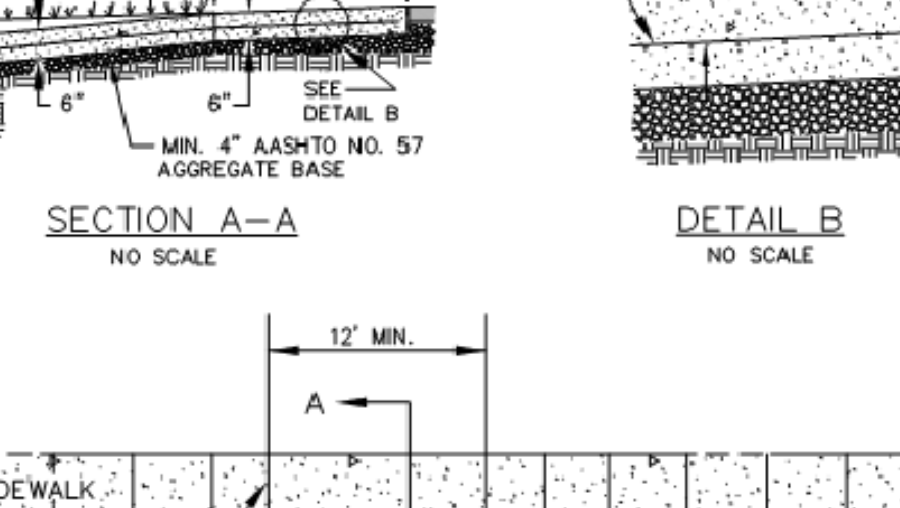
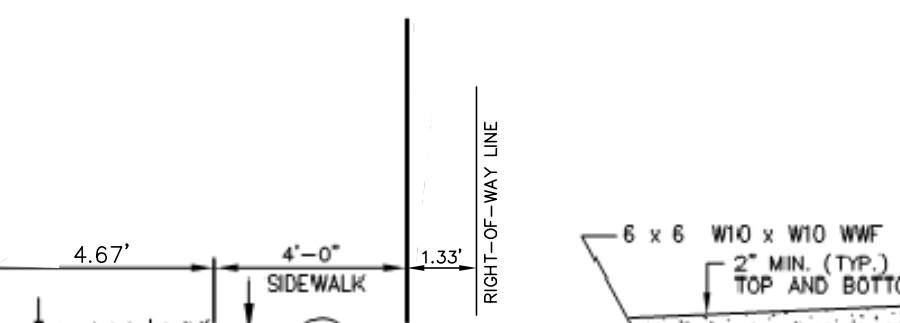
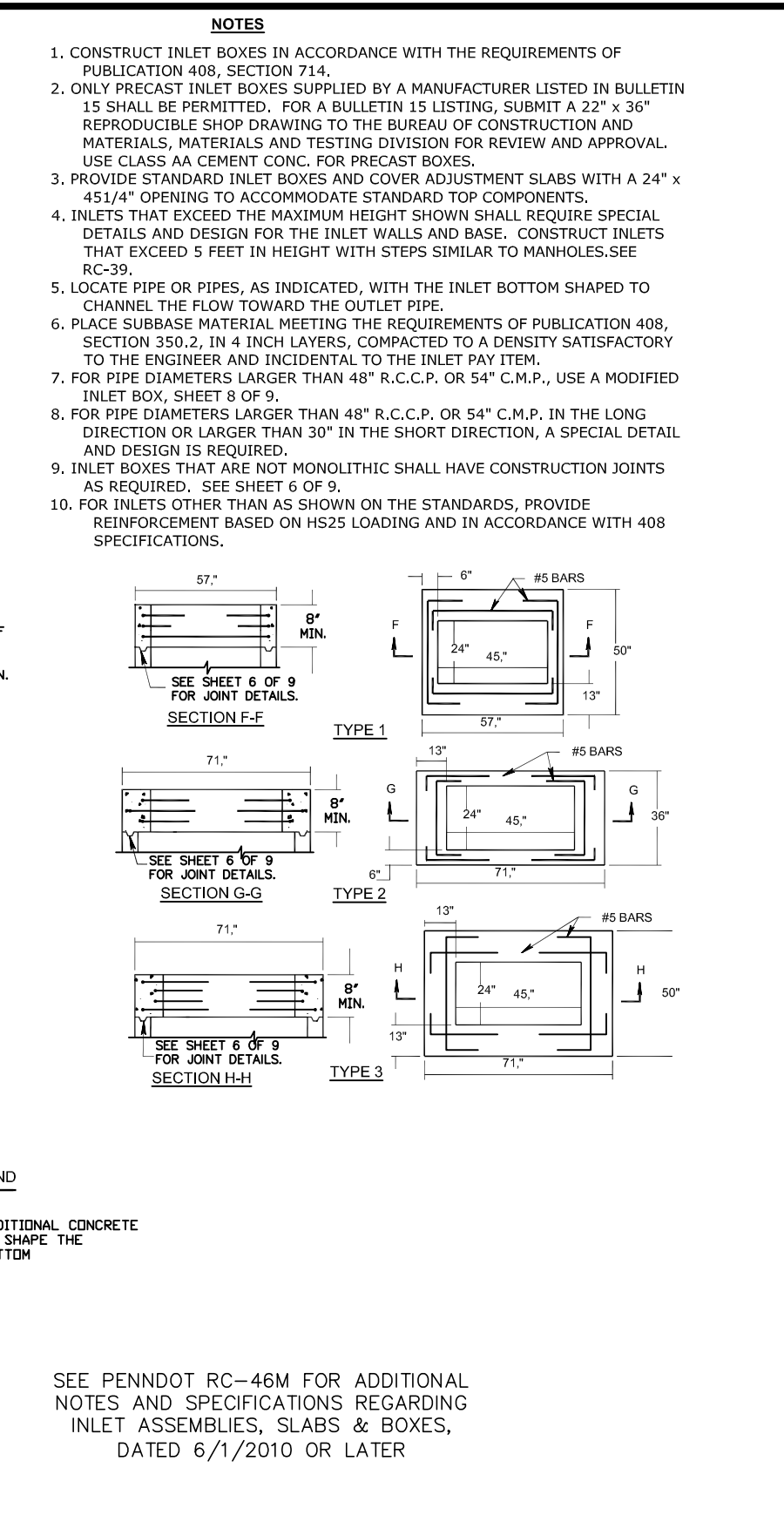
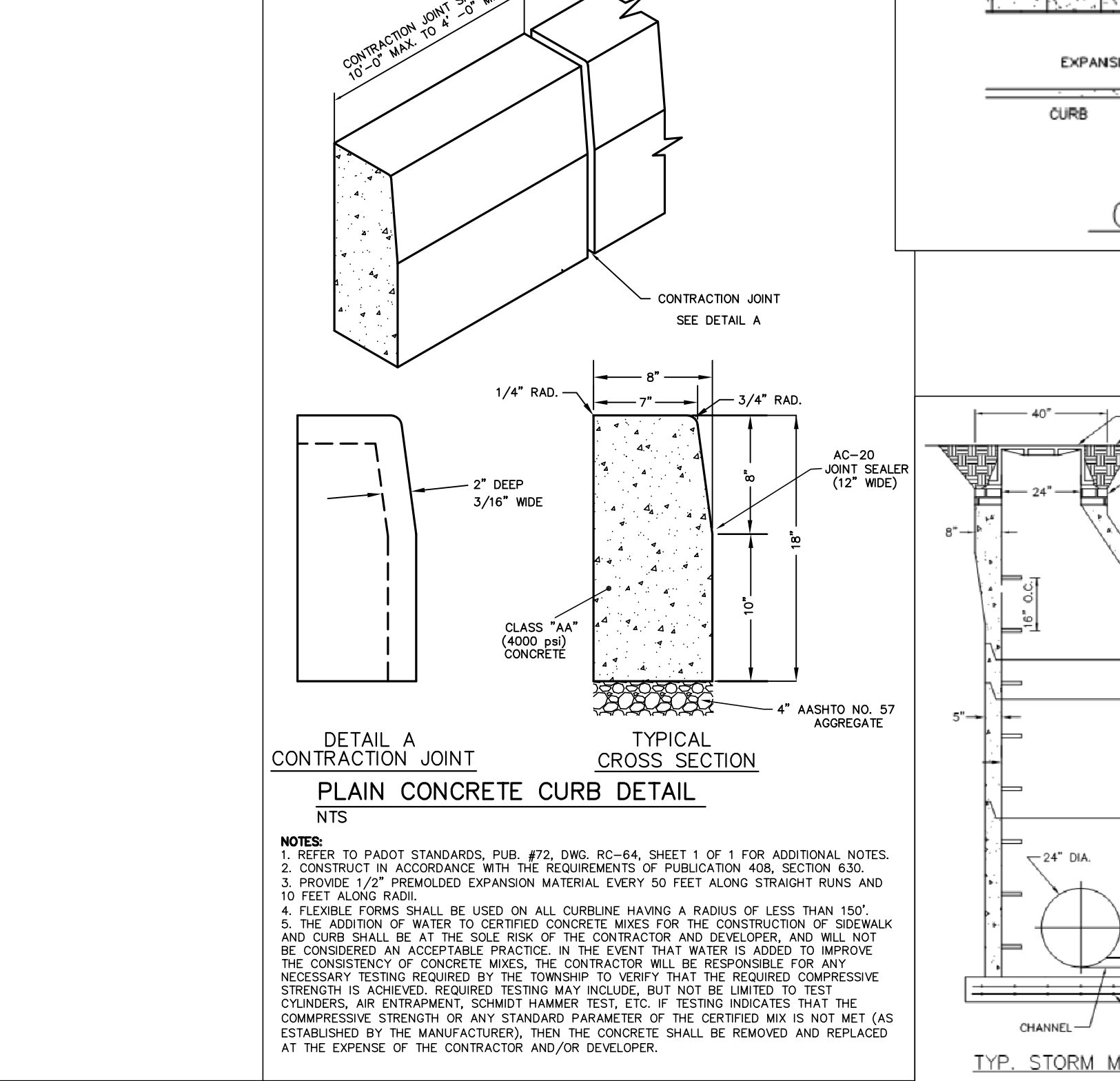
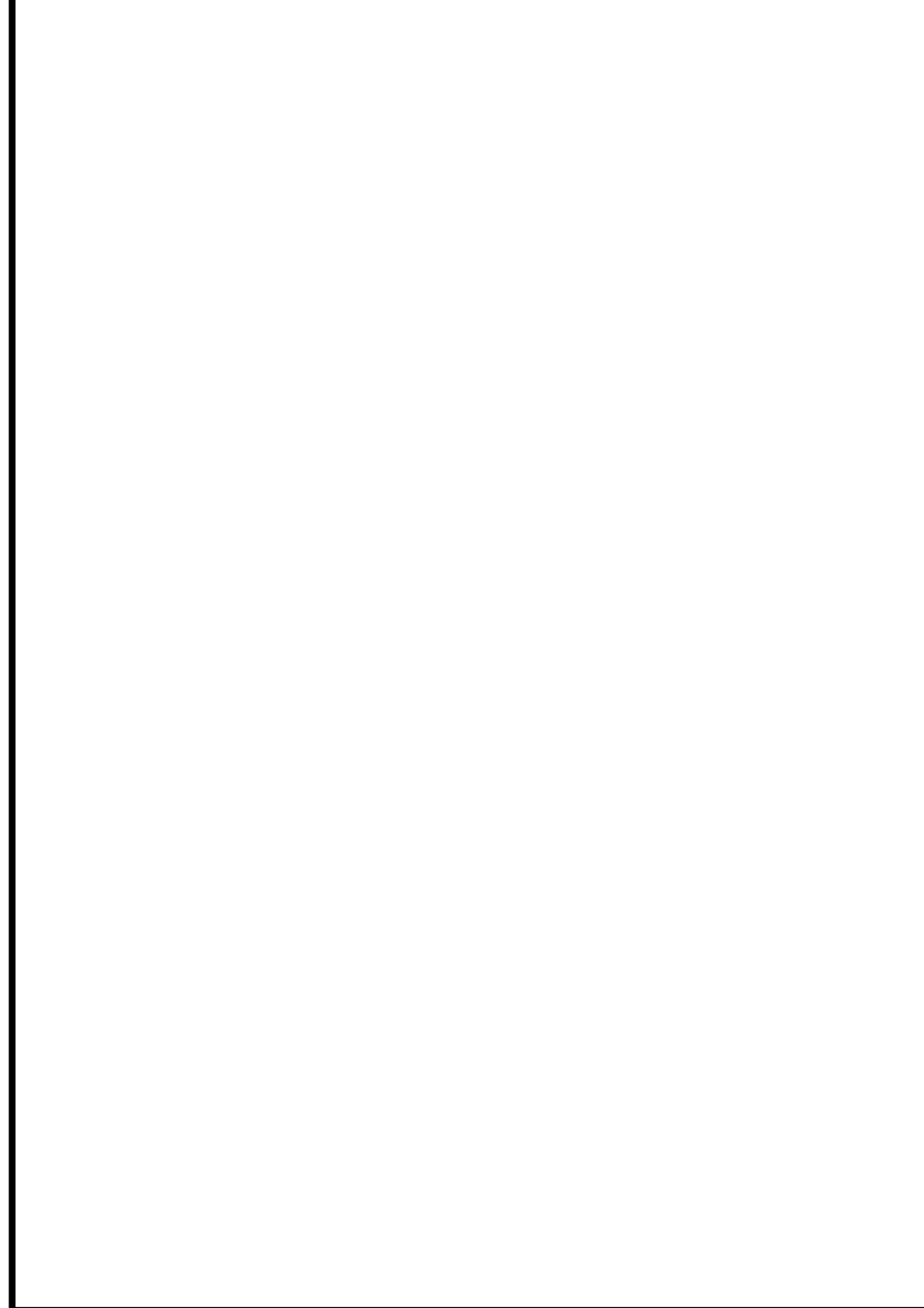
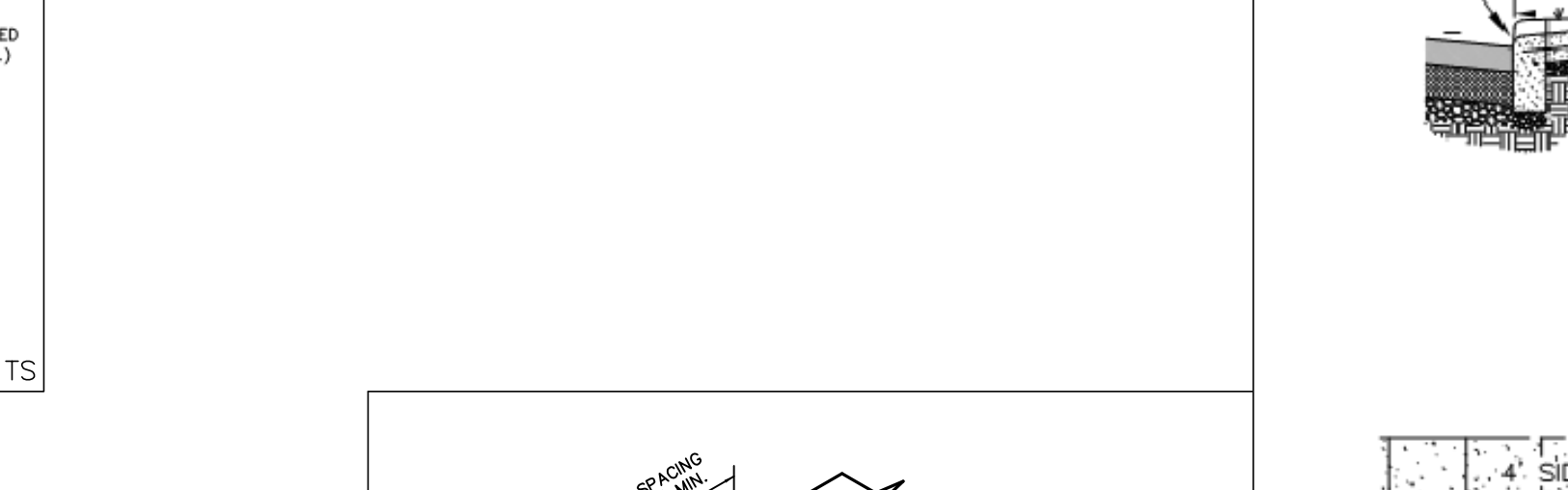
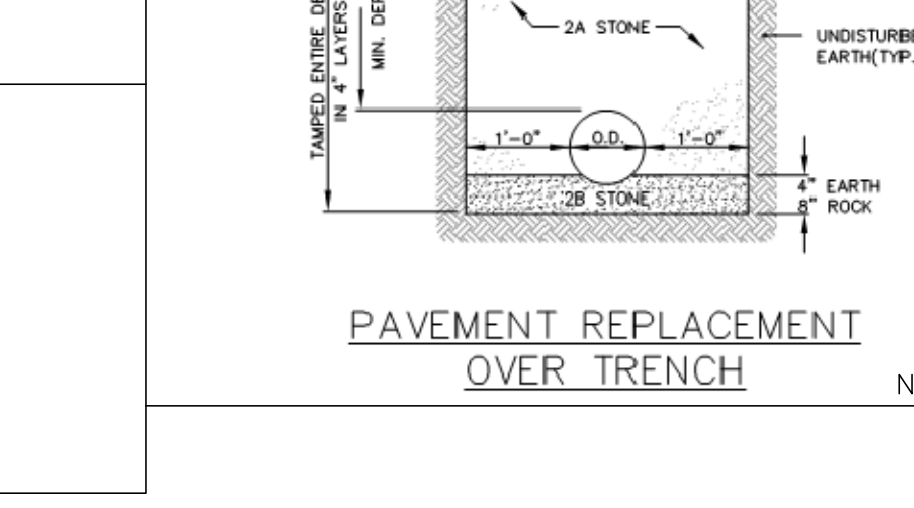
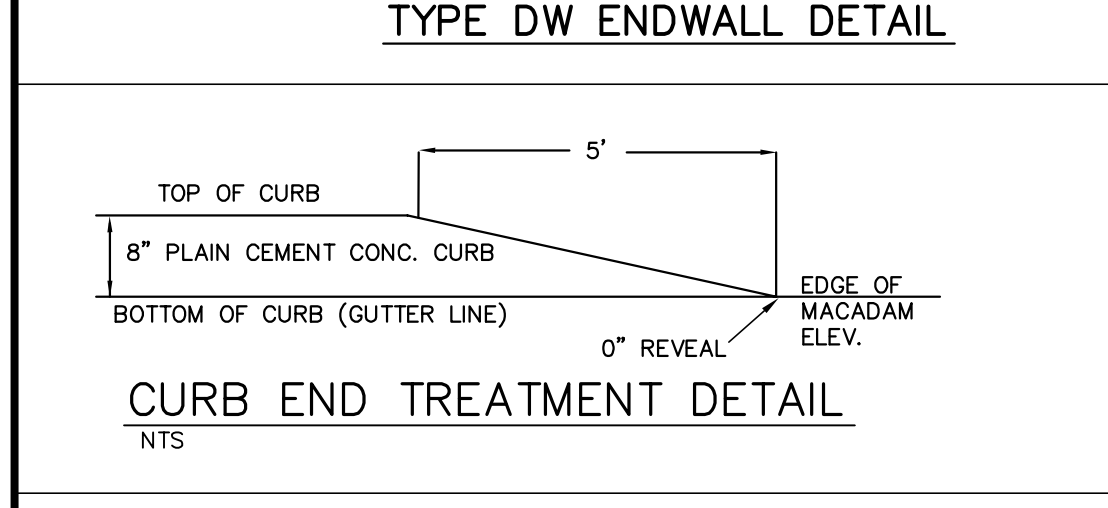
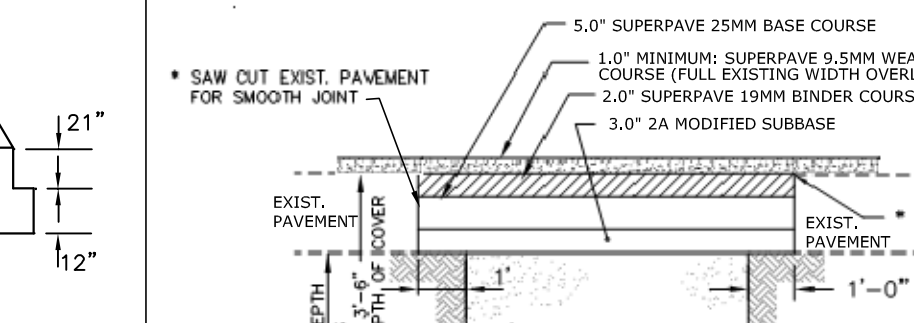
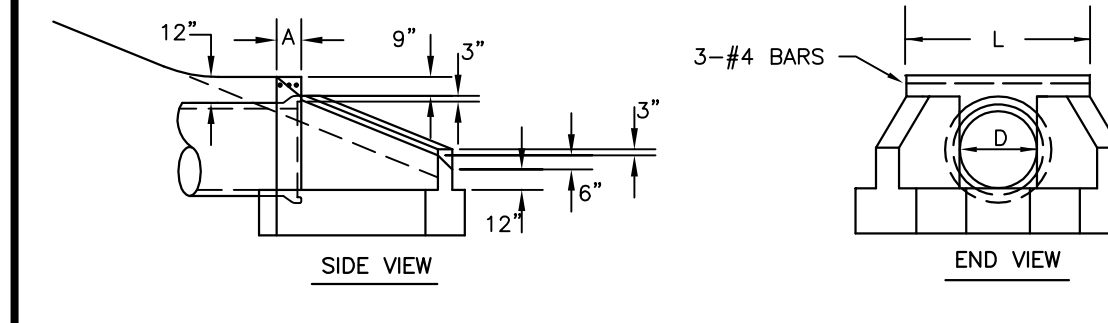
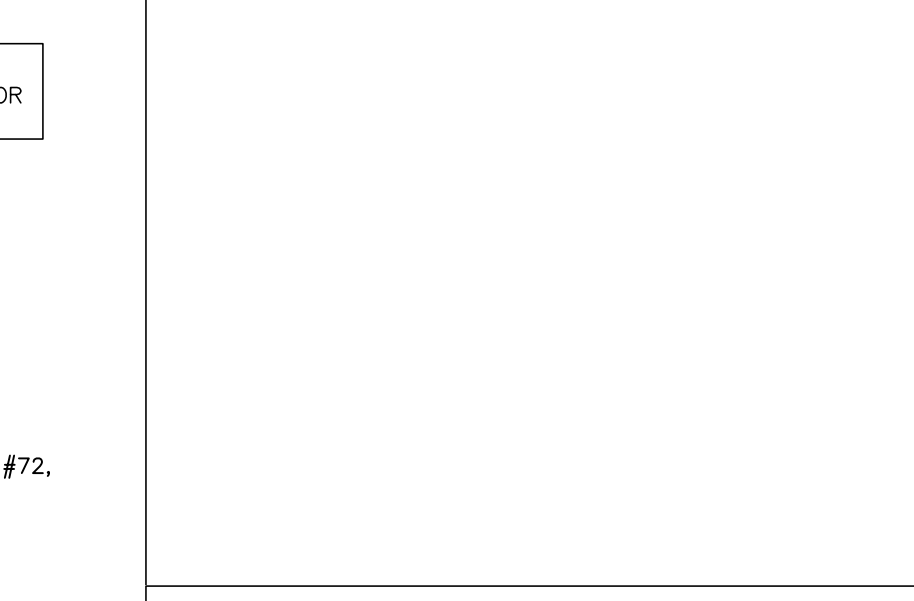
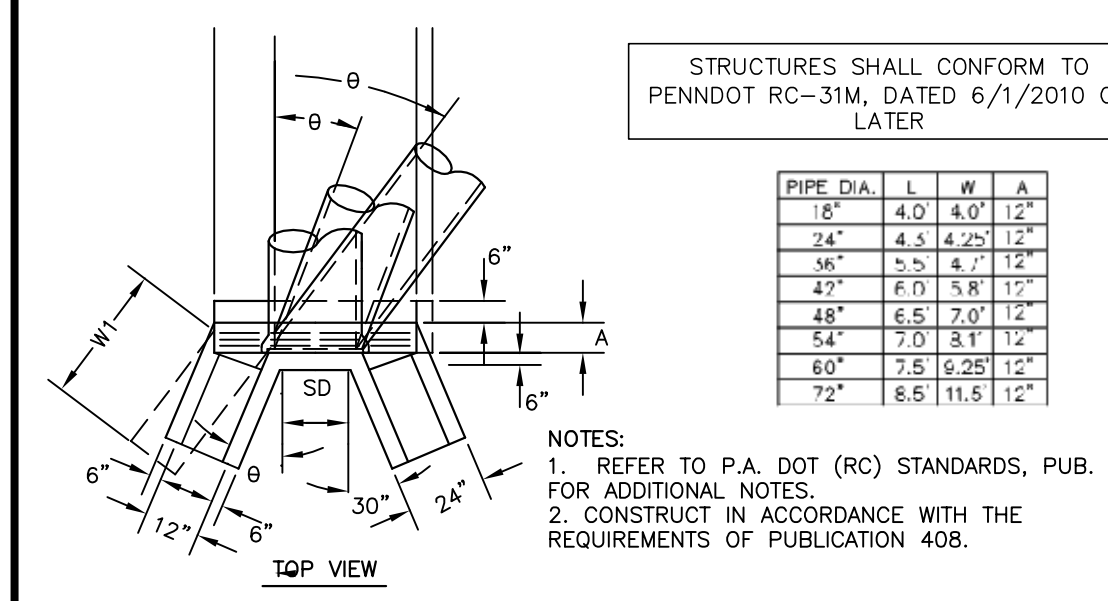
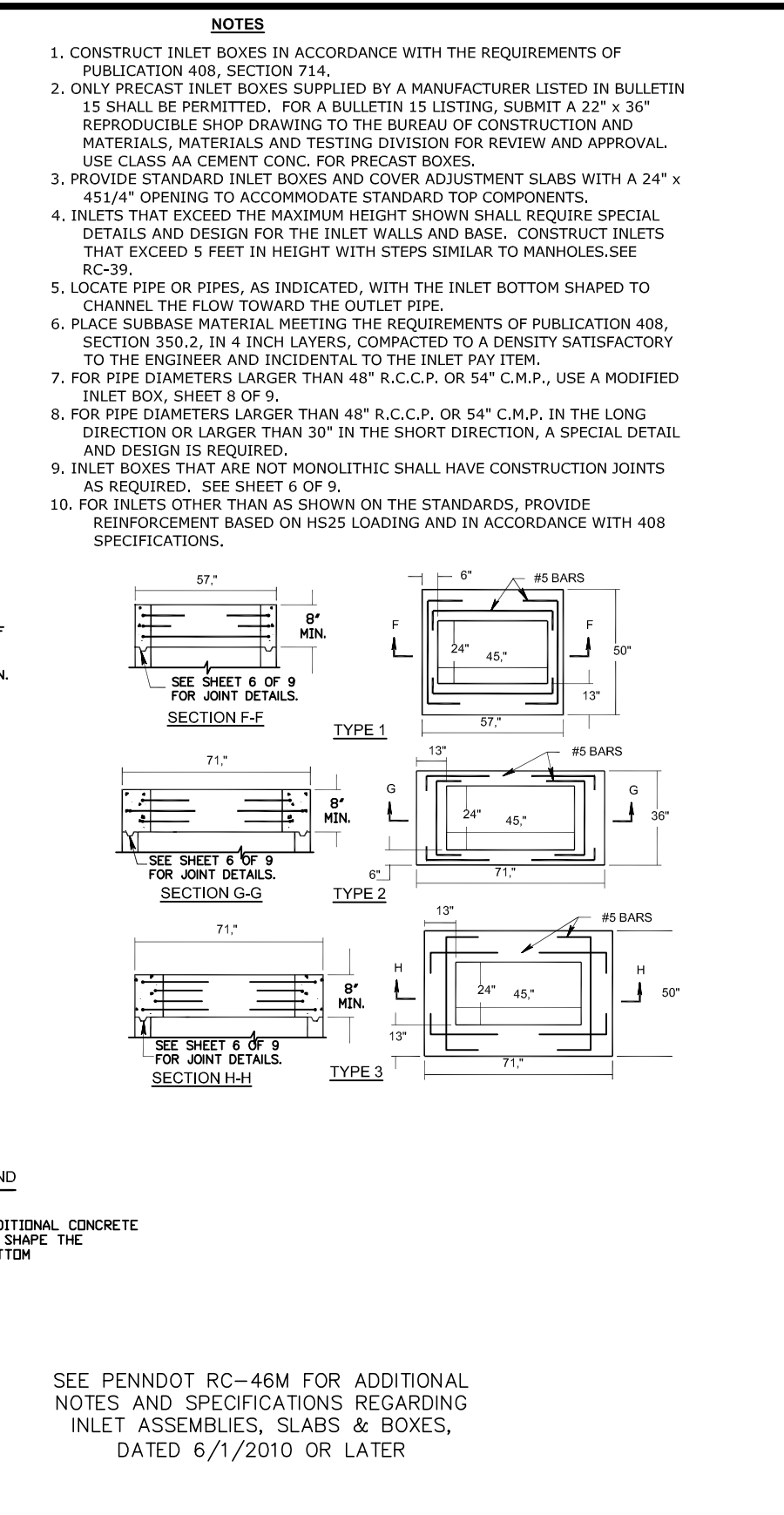
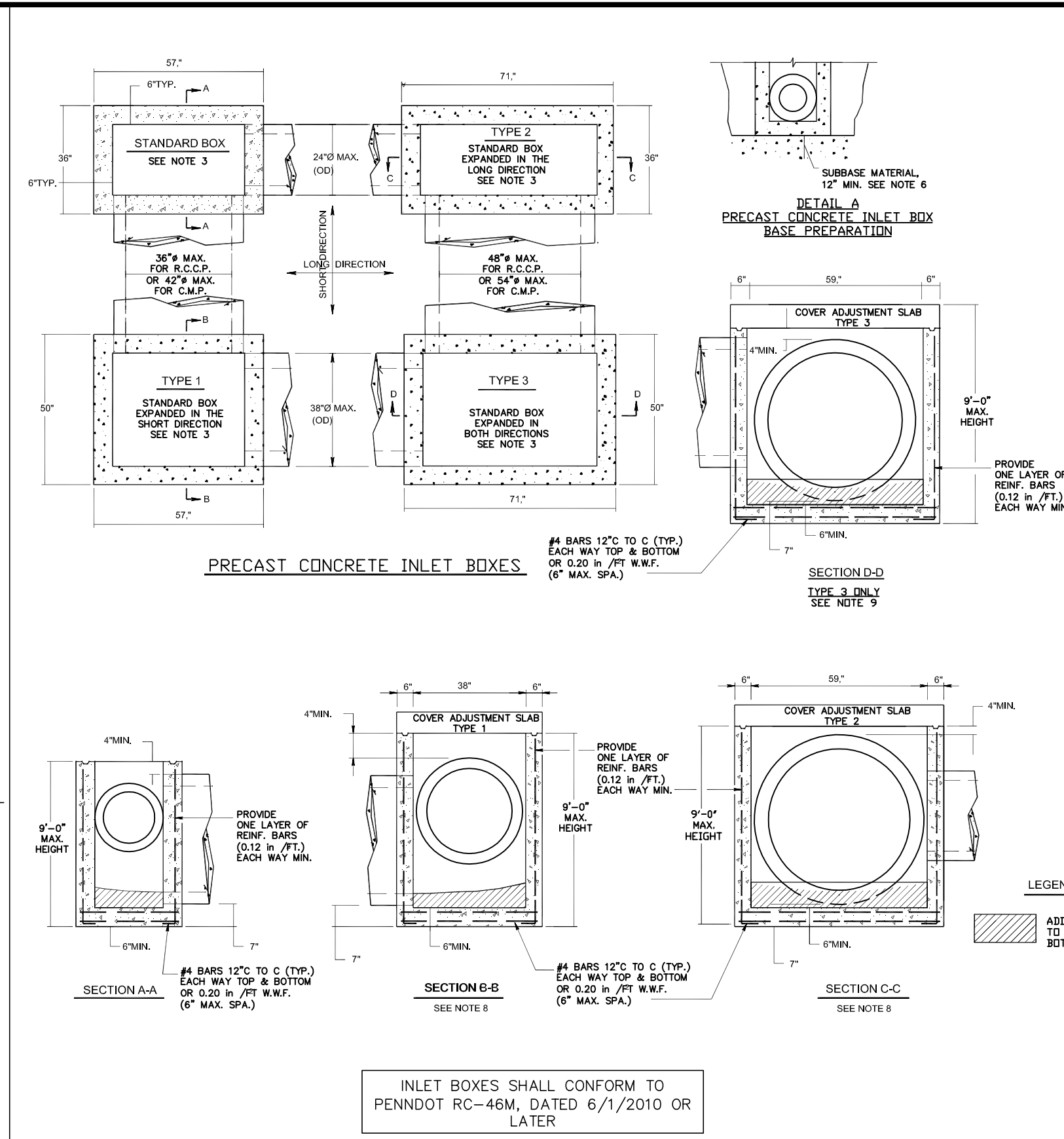
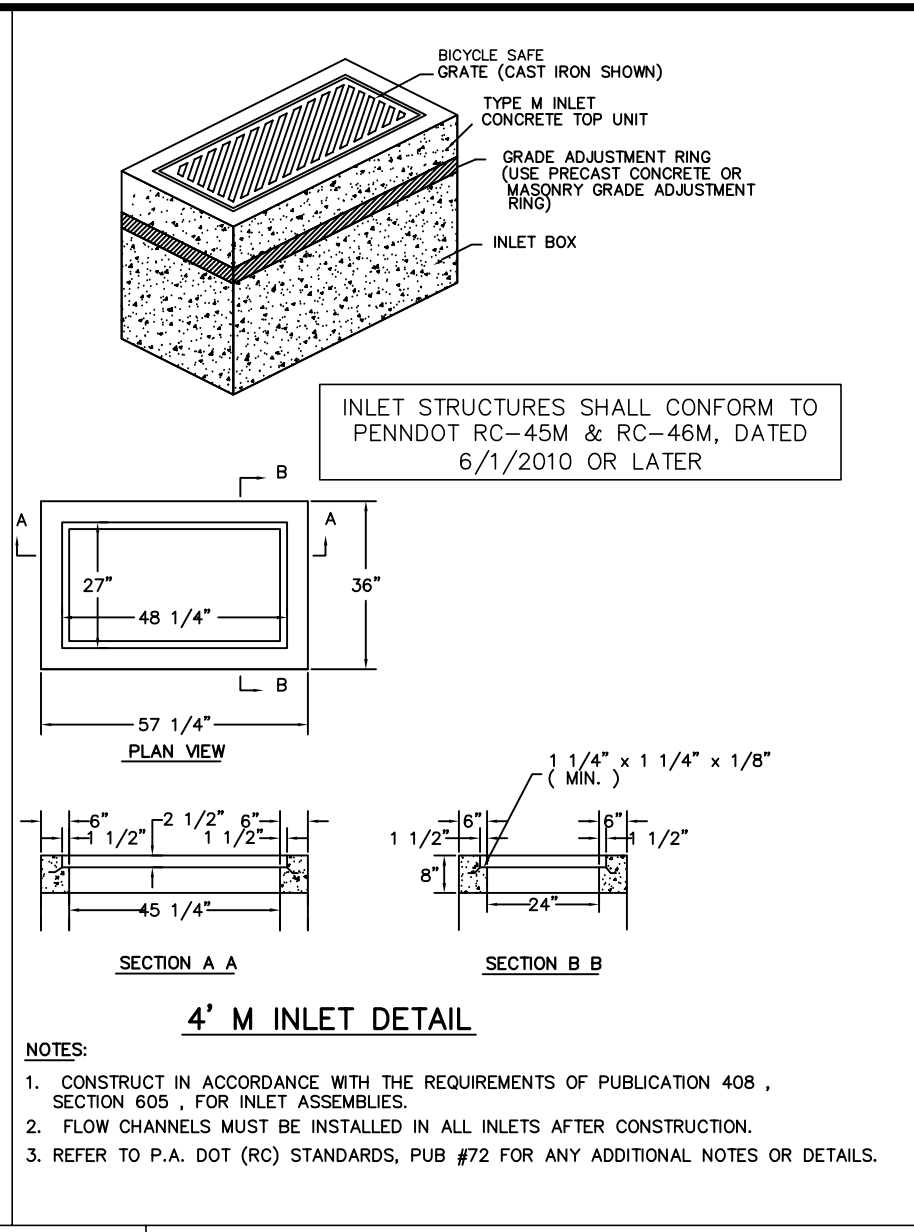
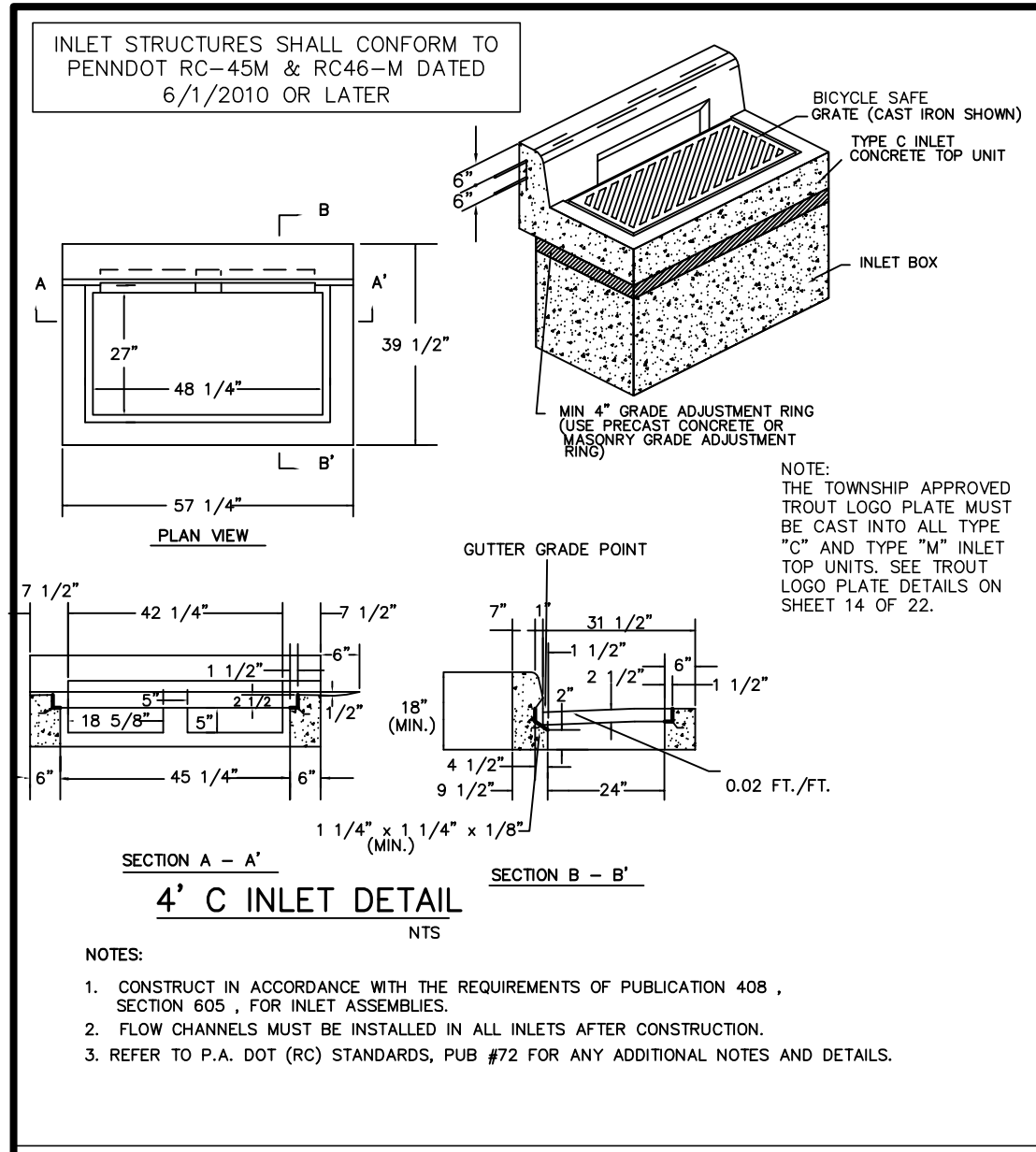
REVISION DATE:	DESCRIPTION:
JANUARY 25, 2018	REUSE PER TWP. ENG. (12/4/17), TWP. PLNR (12/5/17), TRAF. ENG. (12/5/17)
MAY 4, 2018	TWP. ENGR(3/6/18), TRFC ENGR(3/7/18), ALTA(3/6/18), ENTECH(3/7/18), MCD(3/13/18)

CONSTRUCTION DETAILS
PREPARED FOR
PAUL W. MOYER & SONS
SITUAITE
NEW HANOVER TOWNSHIP
MONTGOMERY COUNTY PENNSYLVANIA

DATE: OCTOBER 10, 2017	JOB NAME: 17-09
MANAGER: RFI	FILE NAME: 17-06BASE
DRAWN BY: MAB	SHEET: 7 OF 19
SCALE: 1" = NONE	

Land Use Consultants

 2771 Garryville Rd.
 P.O. Box 18073
 Harrisburg, PA 17105
 717-541-4636
 215-541-4623(fax)
 E-Mail: info@EPM.com



"MOYER TRACT - FARMVIEW ACRES"

REVISION DATE:	DESCRIPTION:
JANUARY 25, 2018	REVISE PER TWP. ENG. (12/4/17), TWP. PLNR (12/5/17), TRAF. ENG. (12/5/17)
MAY 4, 2018	TWP. ENGR(3/6/18), TRFC ENGR(3/7/18), ALTA(3/6/18), ENTECH(3/7/18), MCCD(3/13/18)

DATE:	REVISION:
OCTOBER 10, 2017	

CONSTRUCTION DETAILS
PREPARED FOR
PAUL W. MOYER & SONS
SITUATE
NEW HANOVER TOWNSHIP
MONTGOMERY COUNTY PENNSYLVANIA

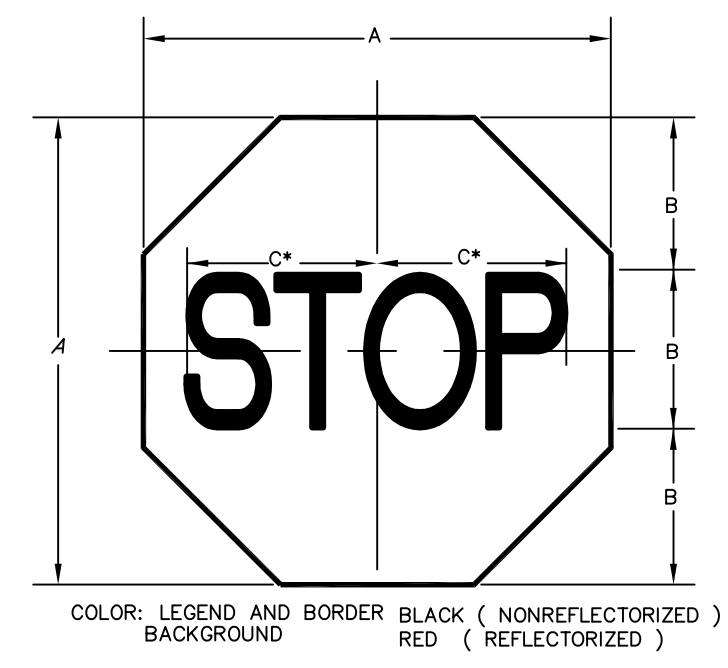
Land Use Consultants
Land Planning • Engineering • Landscape Architecture • Land Surveying

Trick & Eberhardt
Mentus INCORPORATED

Scale Three
2771 Gwynn Pike
Perryopolis, PA 18703
717-541-4626
215-541-4625(Fax)
E-Mail: info@EANDM.com

MANAGER: RFI
JOB NUMBER: 17-09
FILE NAME: 17-06BASE
DRAWN BY: MAB
SHEET: 8 OF 19
SCALE: 1" = NONE

SHOP DRAWINGS FOR ALL STRUCTURES AND MATERIALS TO BE USED FOR CONSTRUCTION OF ALL IMPROVEMENTS SHALL BE SUBMITTED PRIOR TO CONSTRUCTION



COLOR: LEGEND AND BORDER BLACK (NONREFLECTORIZED) BACKGROUND RED (REFLECTORIZED)

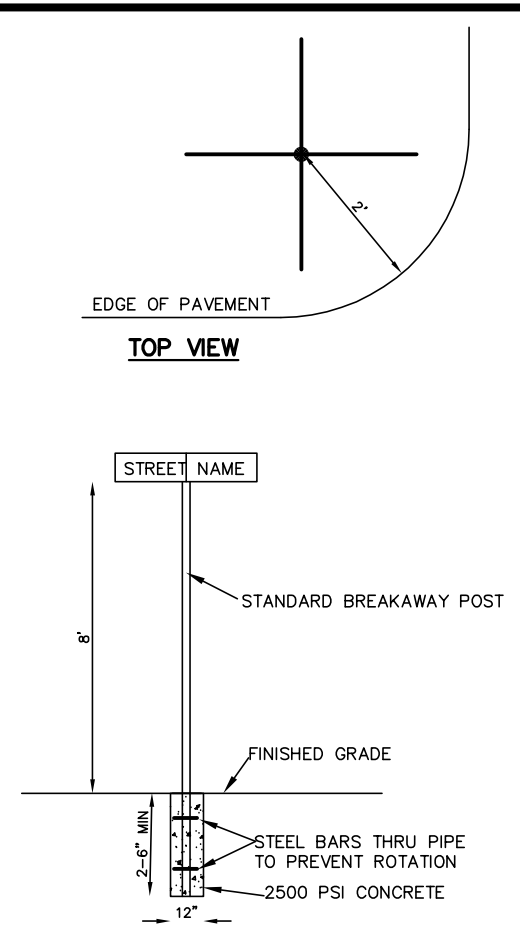
SIGN SIZE	DIMENSIONS			SERIES	BOR-DER	BLANK STD.
	A	B	C			
24x24	24	8	10	C	5/8	B1-24
30x30	30	10	12	C	3/4	B1-30
36x36	36	12	15	C	7/8	B1-36
48x48	48	16	20	C	1 1/4	B1-48

*REDUCE SPACING 40%

R1-1 'STOP' SIGN DETAIL NTS

NOTES:

- REFER TO PA, DOT PUB. 68 - OFFICIAL TRAFFIC-CONTROL DEVICES - TITLE 67, CHAPTER 211 - SECTION 211.52 FOR ADDITIONAL NOTES.
- ALL ABOVE DIMENSIONS ARE IN INCHES



STREET SIGN DETAIL NTS

NOTES:

- STREET SIGN SHALL CONFORM TO AND BE INSTALLED IN ACCORDANCE WITH THE TOWNSHIP STANDARDS AND SPECIFICATIONS.
- SIGN SHALL BE PROVIDED WITH EMBOSSED 6" HEIGHT WHITE LETTERS ON A GREEN BACKGROUND.

R2-1 SPEED LIMIT SIGN

The Speed Limit Sign (R2-1) shall be authorized for use to display the maximum legal speed limit on a highway. When used as a variable speed limit sign, speed display modules may be attached to the sign or inserted through cutouts in the sign substrate.

The R2-1 Sign shall be placed at intervals as specified in Department regulations. The standard size signs shall be as follows:

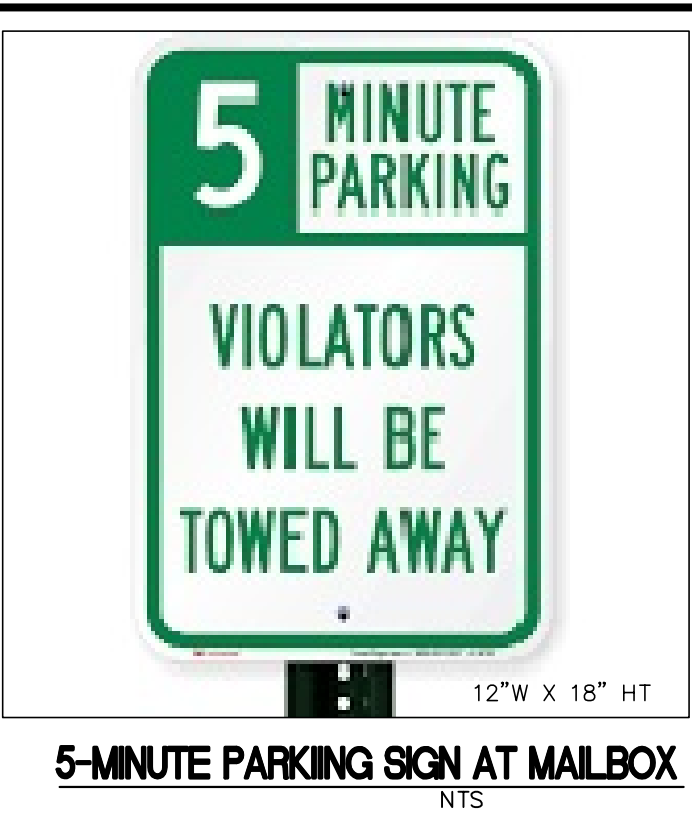
- 24" x 30". All single lane conventional highways having any speed limit.
- 30" x 36". Multi-lane conventional highways regardless of speed limit.
- 48" x 60". Expressways and freeways.

COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) APPROVED FOR THE SECRETARY OF TRANSPORTATION
BACKGROUND: WHITE (REFLECTORIZED) By: *A.C. Brown* Date: 02-29-12
Chief, Traffic Engineering and Permit Section Bureau of Maintenance and Operations

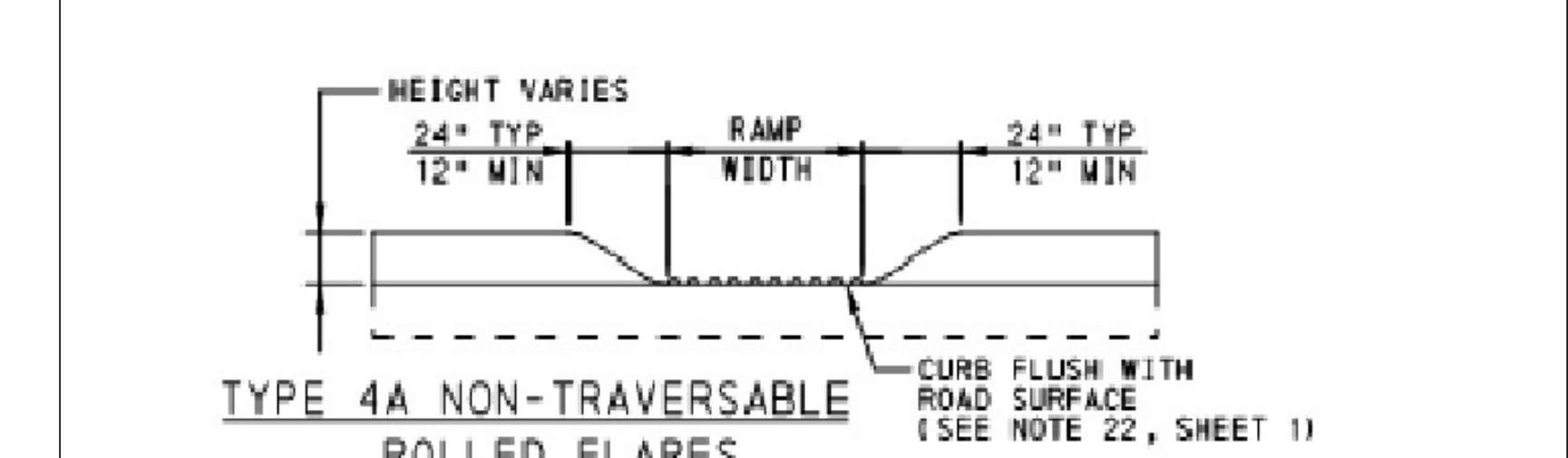
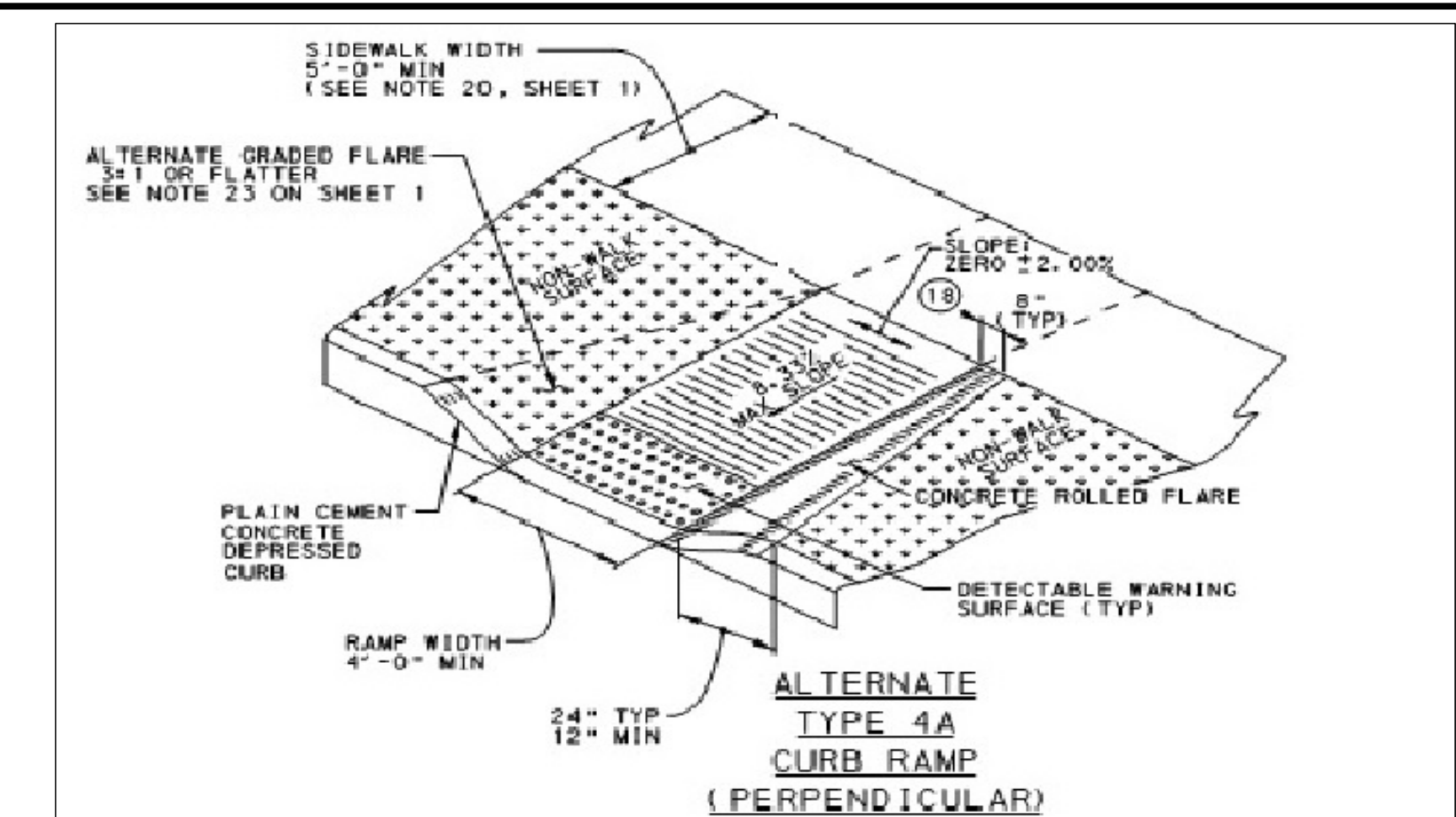
DIMENSIONS - IN

SIGN SIZE	A	B	C	D	E	F	G	H	MAR-DER	BOR-DER	BLANK STD.
24" x 30"	AE	2	10E	4	9.6	7.3	0.4	0.6	B5-3024		
30" x 36"	5E	2	12E	5	12	9.1	0.6	0.8	B5-3630		
48" x 60"	8E	6	20E	6	19.1	14.6	0.8	1.2	B5-6048		

* OPTICALLY SPACE NUMERALS ABOUT VERTICAL C

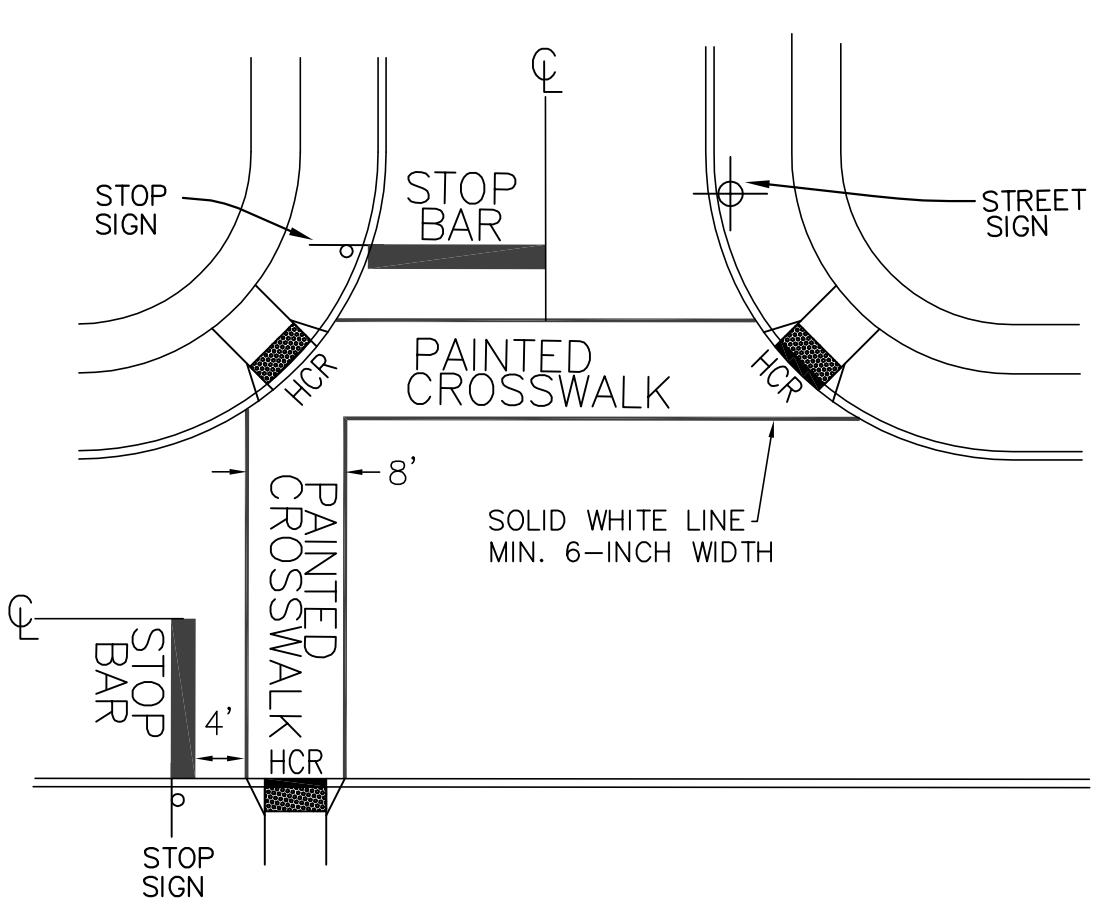


5-MINUTE PARKING SIGN AT MAILBOX NTS

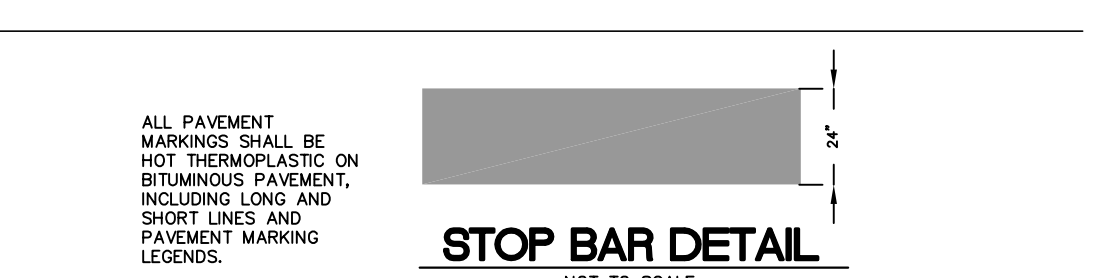


TYPE 4A NON-TRAVERSABLE ROLLED FLARES

22. CONSTRUCT DEPRESSED CURB FOR CURB RAMP FLUSH TO ADJACENT ROADWAY. GRADE EDGE OF ROAD ELEVATIONS AT THE FLOW LINE TO ENSURE POSITIVE DRAINAGE AND PREVENT POONDING. FOR LEVEL TURNING SPACES BEHIND DEPRESSED CURB, ADJUST SLOPE TO PROVIDE POSITIVE DRAINAGE. AT THE JOINT BETWEEN DEPRESSED CURB AND ROADWAYS, REMOVE EXCESS JOINT SEALER AND COVER THE SEALED AREA WITH A LIGHT APPLICATION OF DRY SAND.



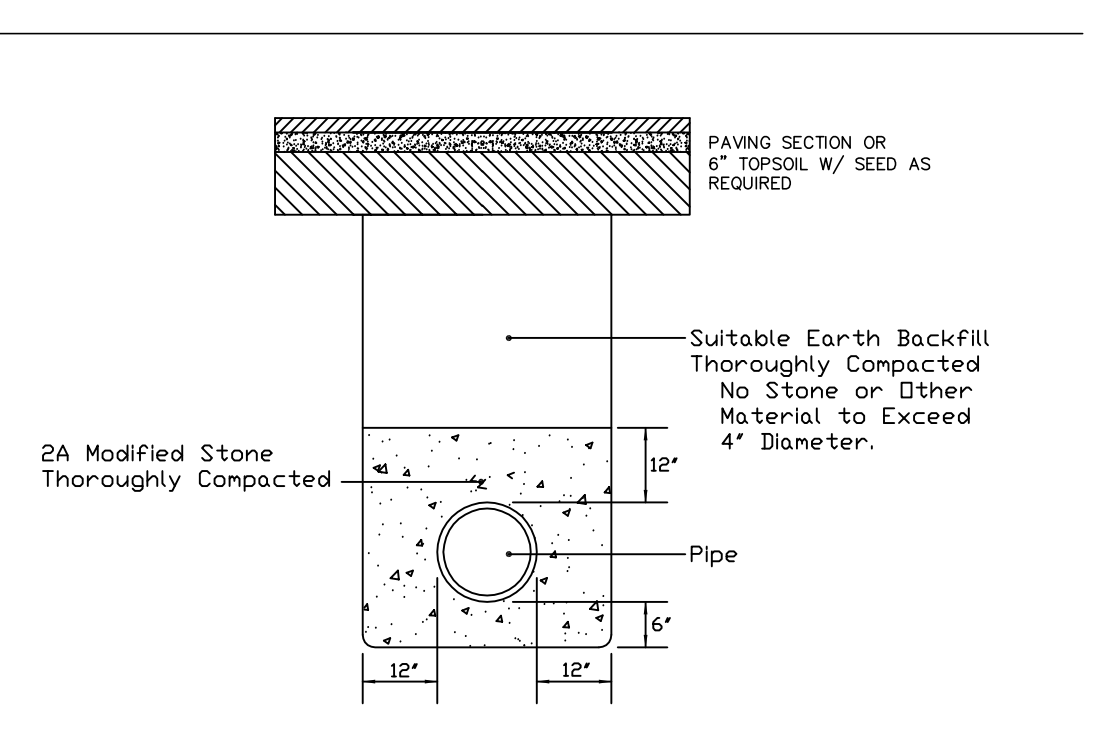
TYPICAL INTERSECTION PAINTING DIAGRAM NTS



STOP BAR DETAIL NOT TO SCALE

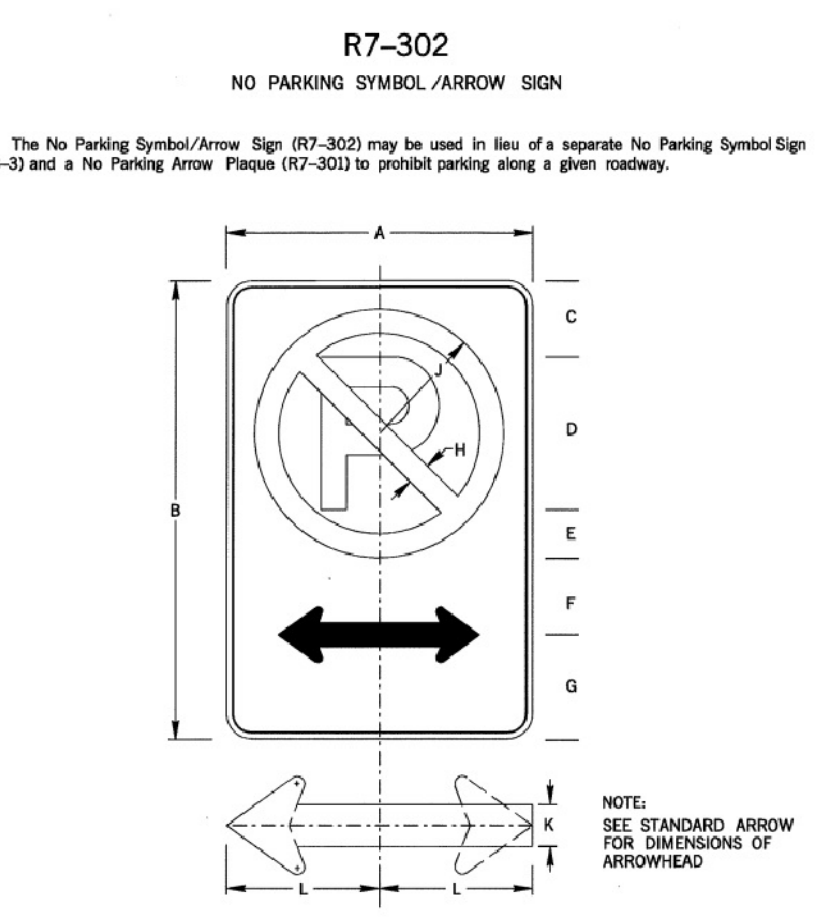
NOTES:

- STOP LINES ARE SOLID WHITE LINES THAT COMPLETELY TRAVERSE EACH TRAFFIC LANE. AT AN INTERSECTION WITH A STOP SIGN, THE STOP BAR SHOULD BE PLACED AT A LOCATION NO LESS THAN 4- FEET, OR MORE THAN 30- FEET FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY TO ENSURE MAXIMUM SIGHT DISTANCE TO VEHICLES ON THE CROSSING ROUTE. WHEN USED ON MULTI-LANE APPROACH TO A SIGNALIZED INTERSECTION, THE STOP BAR MAY BE STAGGERED TO ASSIST TURNING VEHICLES AND TO IMPROVE SIGHT DISTANCE FOR MOTORIST DESIRING TO MAKE A TURN ON RED.
- LOCATE STOP BAR AT A MINIMUM OF 4- FEET IN ADVANCE OF AND PARALLEL TO THE CROSSWALK LINES UNLESS OTHERWISE NOTED.



TRENCH RESTORATION DETAIL IN PRIVATE ROADS AND COMMON AREAS N.T.S.

1. TRENCH RESTORATION IS FOR INTERNAL STREETS AND COMMON AREAS OWNED AND MAINTAINED BY HOMEOWNERS ASSOCIATION.
2. SANITARY SHALL BE BEDDED IN 2B STONE IN CONFIGURATION NOTED.
3. WATER MAIN IS LAD ON A DIRT MAT.



R7-302 NO PARKING SYMBOL (ARROW SIGN)

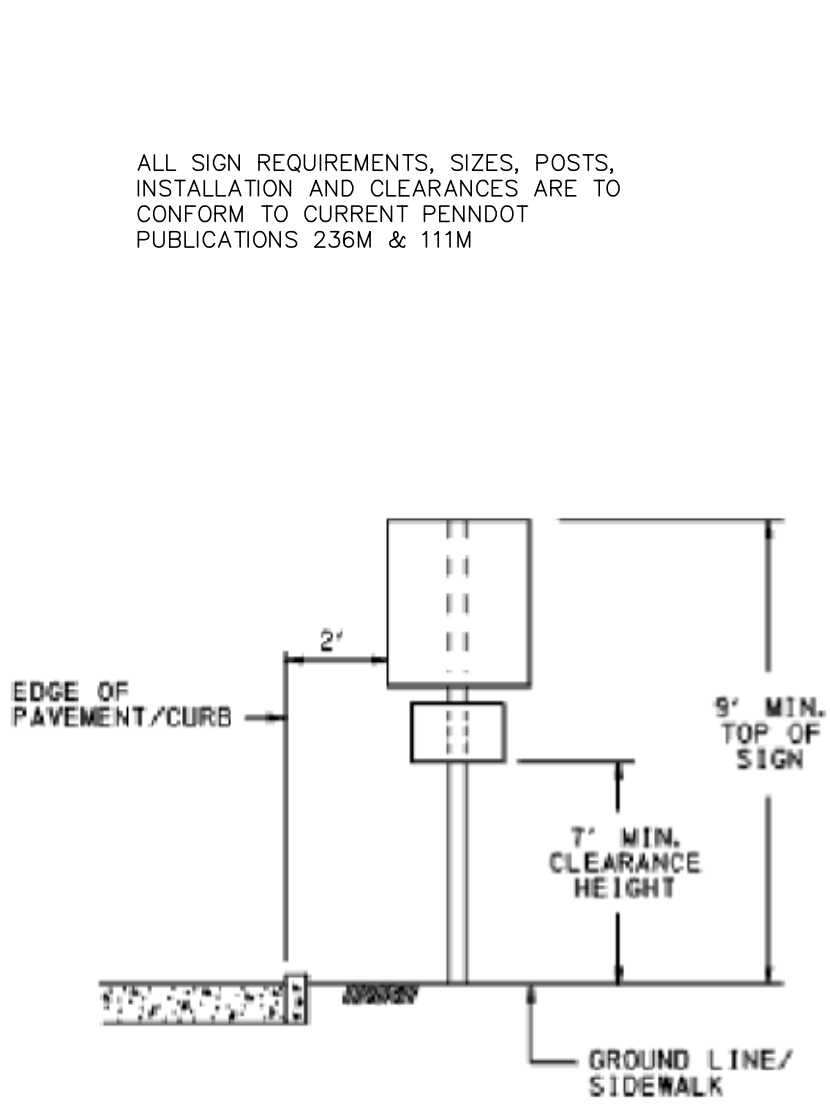
The No Parking Symbol/Arrow Sign (R7-302) may be used in lieu of a separate No Parking Symbol Sign (R8-33) and a No Parking Arrow Plaque (R7-303) to prohibit parking along a given roadway.

COLOR: CIRCLE, DIAGONAL ARROW AND BORDER: RED (REFLECTORIZED)
BACKGROUND: WHITE (REFLECTORIZED)
*P: BLACK (NON-REFLECTORIZED)

APPROVED FOR THE SECRETARY OF TRANSPORTATION By: *A.C. Brown* Date: 02-29-12
Chief, Traffic Engineering and Permit Section Bureau of Maintenance and Operations

DIMENSIONS - IN

SIGN SIZE	A	B	C	D	E	F	G	H	J	K	L	MAR-DER	BOR-DER	BLANK STD.
12" x 18"	3	6GM	1.9	3	4.1	1	4.9	0.8	3.8	0.4	0.4	B5-1218		



BUSINESS OR RESIDENTIAL AREA

APPROVED FOR THE SECRETARY OF TRANSPORTATION By: *A.C. Brown* Date: 02-29-12
Chief, Traffic Engineering and Permit Section Bureau of Maintenance and Operations

PATA 109 (New PATA) - Notes

- Each flagger shall be clearly visible to traffic for a minimum distance of E and shall be in constant communication with all other flaggers.
- For operations of 15 minutes or less:
 - On a Road Work (W20-1), On a Lane Road (W20-4), or a Flagger to Stop (W3-4), and Flagger Symbol (W20-7) signs are not required.
 - All channelizing devices may be eliminated if a shadow vehicle is present.
- The taper space shall be provided so that the taper length is equal to the width of the taper. The taper shall be provided so that the taper length is equal to the width of the taper. The taper shall be provided so that the taper length is equal to the width of the taper.
- When a shadow vehicle is not used, distance E is measured from end of taper to beginning of work space.

Sign Spacing Chart

Condition	Distance			Speed	W	L	1/2L	1/3L	Min. Channelizing Devices	D	T	H
	A	B	C									
Urban 35 MPH or less	180	120	100	30	25	15	10	5	6	6	50	150
Urban Greater than 35 MPH	320	320	320	30	30	15	10	5	6	6	60	160
Rural	500	500	500	35	35	15	10	5	6	6	70	250

Distance and Spacing Quick Reference Chart

Speed	W	L	1/2L	1/3L	Min. Channelizing Devices	D	T	H
30	25	15	10	5	6	6	50	150
35	30	15	10	5	6	6	60	160
40	35	15	10	5	6	6	70	170
45	40	15	10	5	6	6	80	180
50	45	15	10	5	6	6	90	190
55	50	15	10	5	6	6	100	200

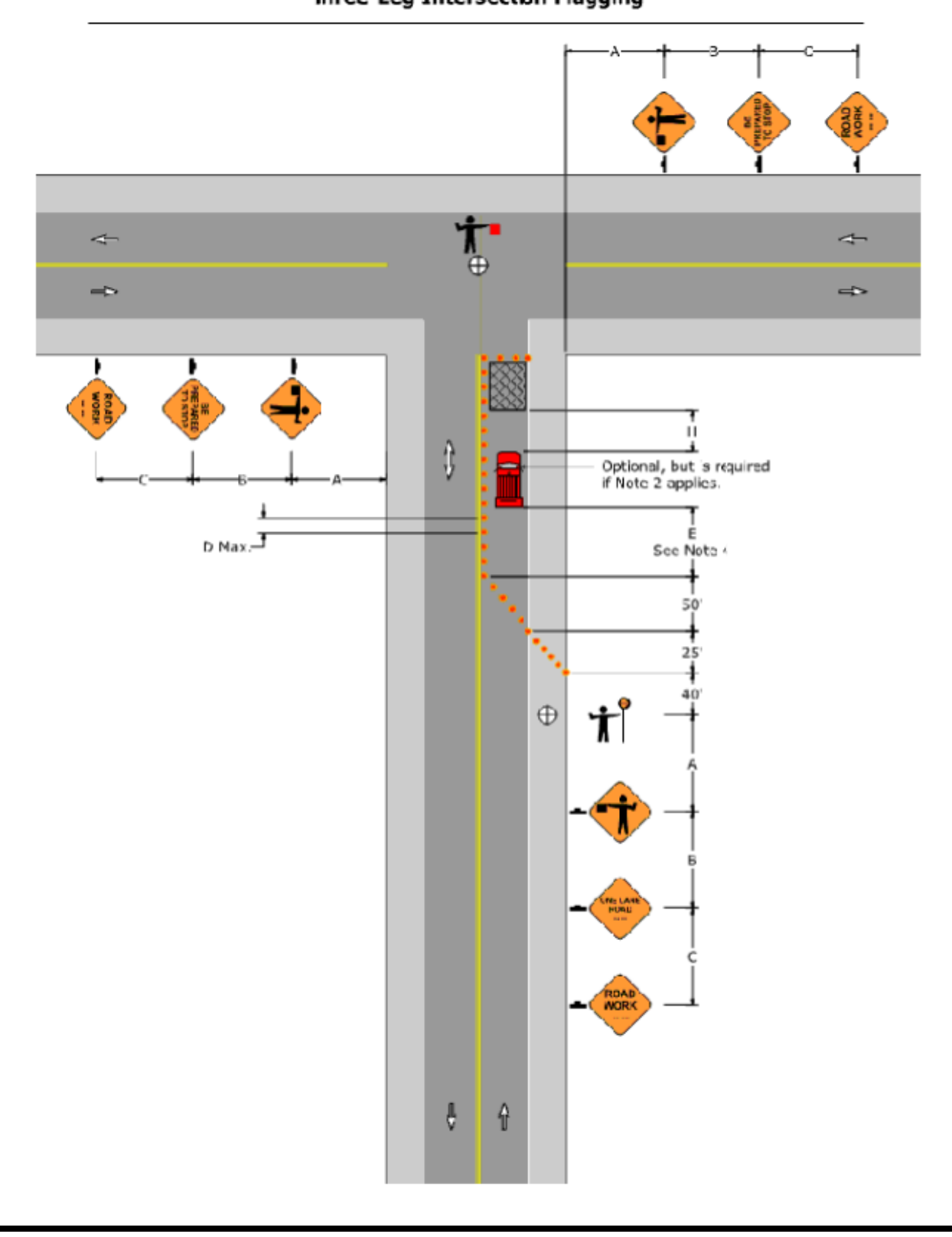
Taper Length Formulae

40 MPH or less: $L = \frac{W^2}{30}$

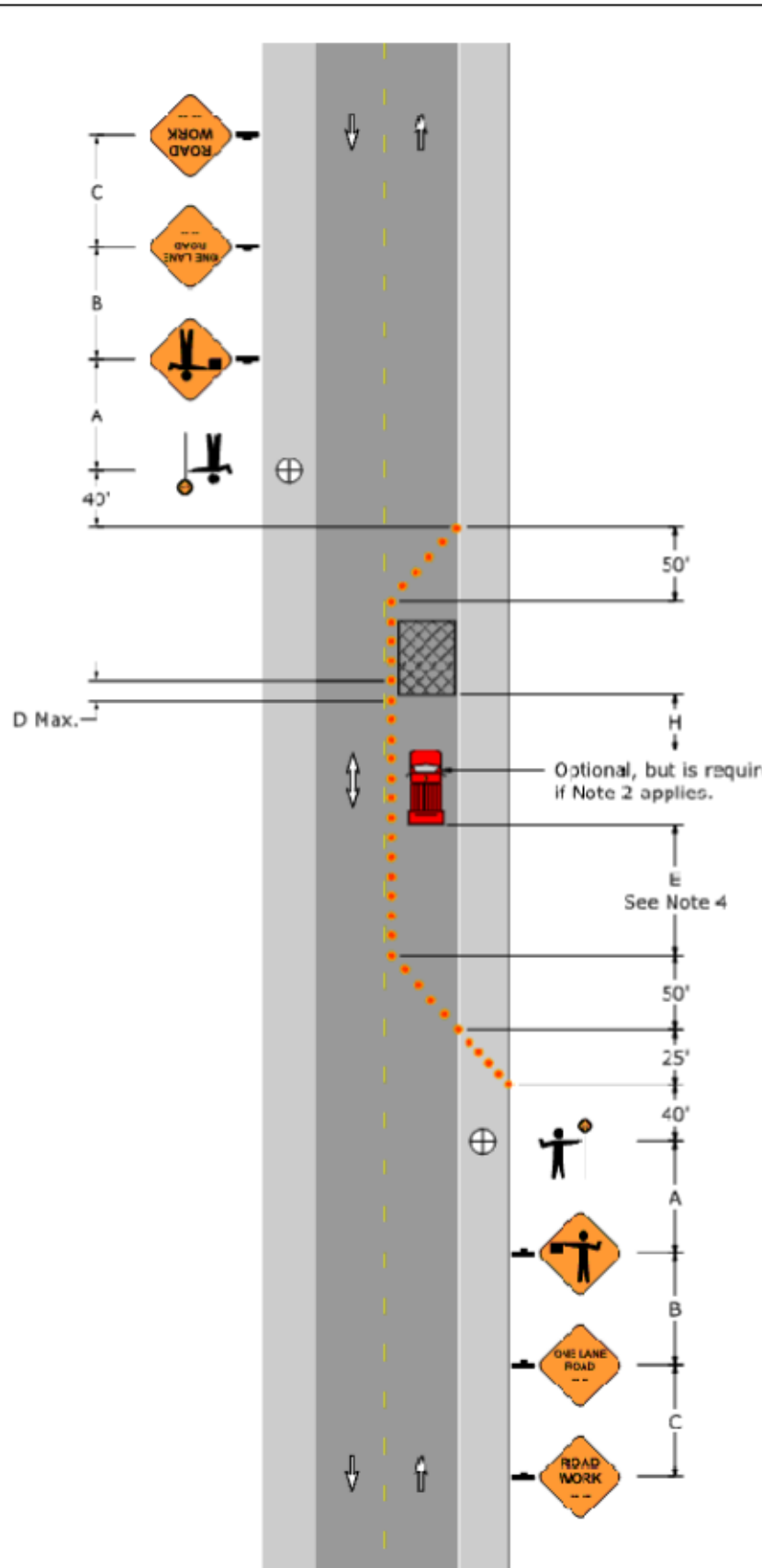
45 MPH or more: $L = WS$

W = Regulatory Speed Limit
L = Length

PATA 109 (New PATA) Three-Leg Intersection Flagging



PATA 107 (Old PATA 10a) Work In One Lane: Two Flaggers



PATA 107 (Old PATA 10a) Work In One Lane: Two Flaggers

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:

- On a Road Work (W20-1), On a Lane Road (W20-4), and Flagger Symbol (W20-7) signs are not required.
- All channelizing devices may be eliminated if a shadow vehicle is present.

3. The taper space shall be provided so that the taper length is equal to the width of the taper. The taper shall be provided so that the taper length is equal to the width of the taper. The taper shall be provided so that the taper length is equal to the width of the taper.

4. When a shadow vehicle is not used, distance E is measured from end of taper to beginning of work space.

Sign Spacing Chart

Condition	Distance			Speed	W	L	1/2L	1/3L	Min. Channelizing Devices	D	T	H
	A	B	C									
Urban 35 MPH or less	100	100	100	35	15	10	5	5	6	6	50	150
Urban Greater than 35 MPH	300	300	300	30	30	15	10	5	6	6	60	160
Rural	500	500	500	35	35	15	10	5	6	6	70	190

Distance and Spacing Quick Reference Chart

Speed	W	L	1/2L	1/3L	Min. Channelizing Devices	D	T	H
30	30	15	10	5	6	6	60	160
35	35	15	10	5	6	6	70	170
40	40	15	10	5	6	6	80	180
45	45	15	10	5	6	6	90	190
50	50	15	10	5	6	6	100	200

Taper Length Formulae

40 MPH or less: $L = \frac{W^2}{30}$

45 MPH or more: $L = WS$

W = Regulatory Speed Limit
L = Length

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

"MOYER TRACT - FARMVIEW ACRES"

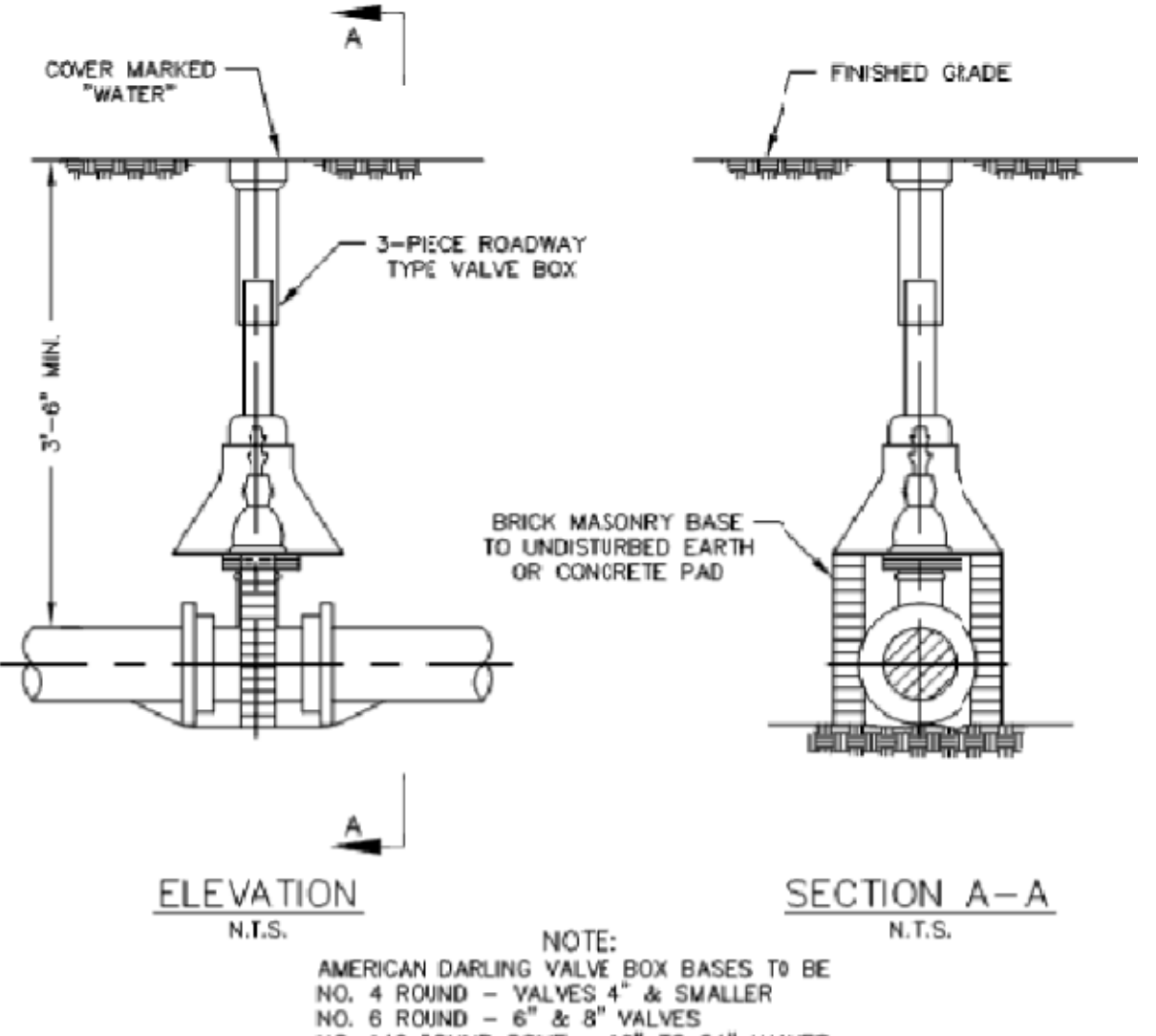
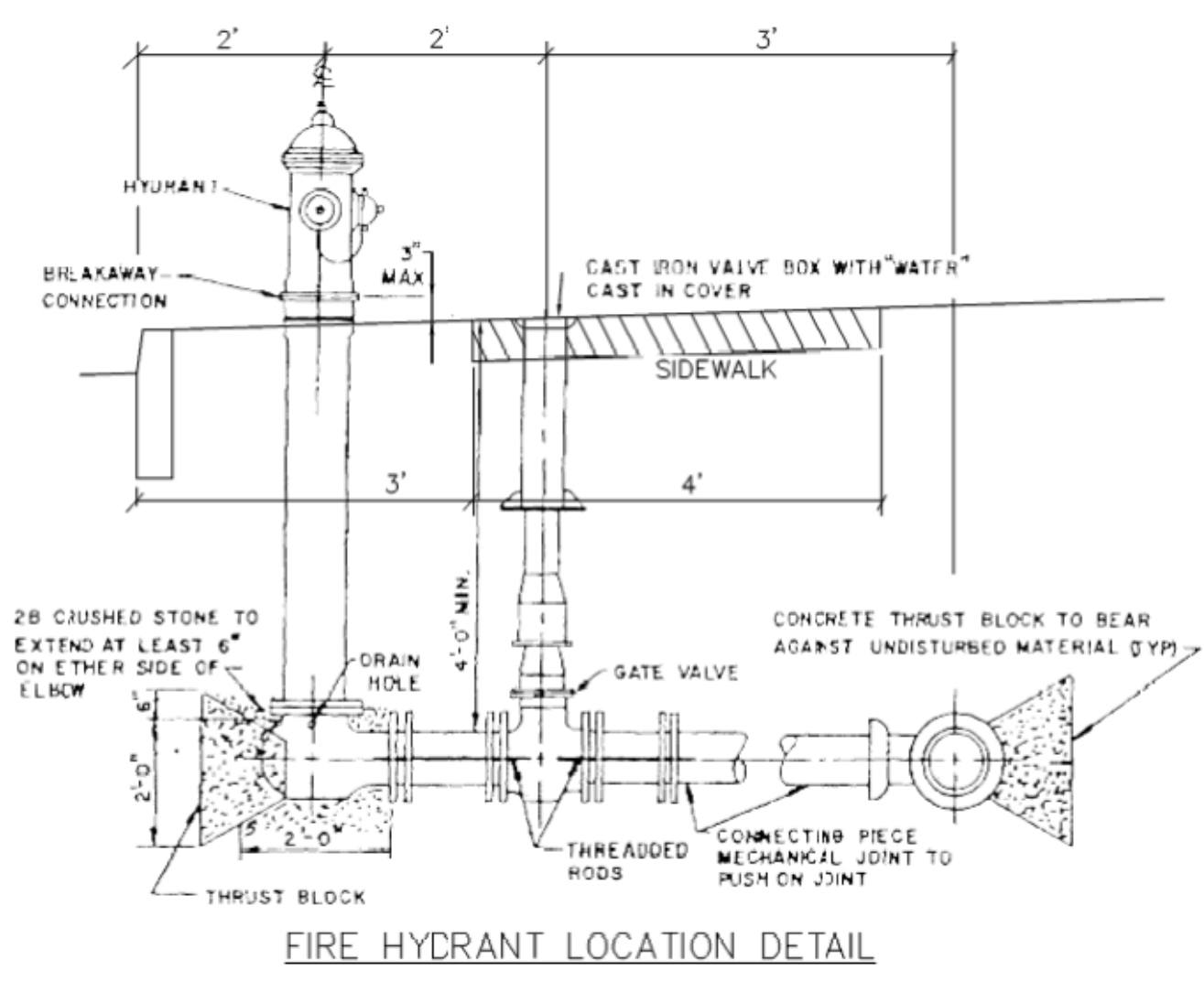
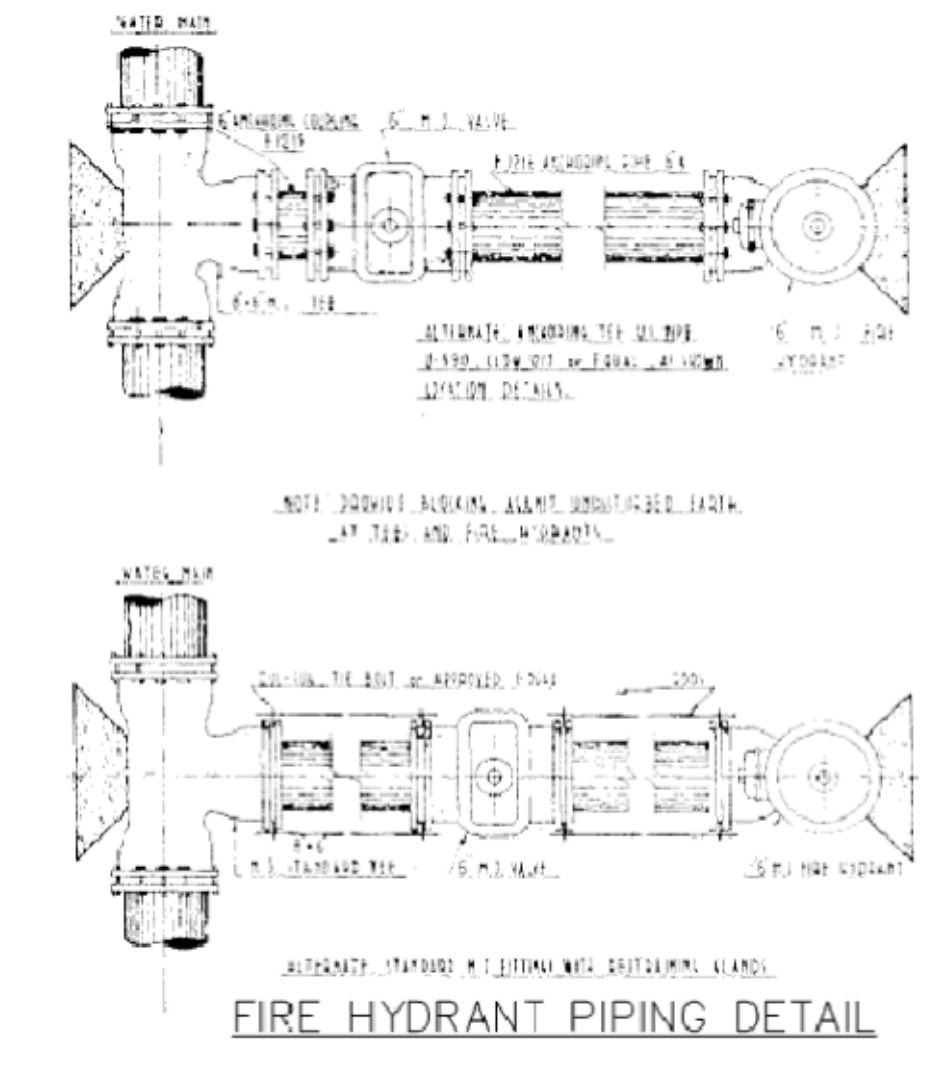
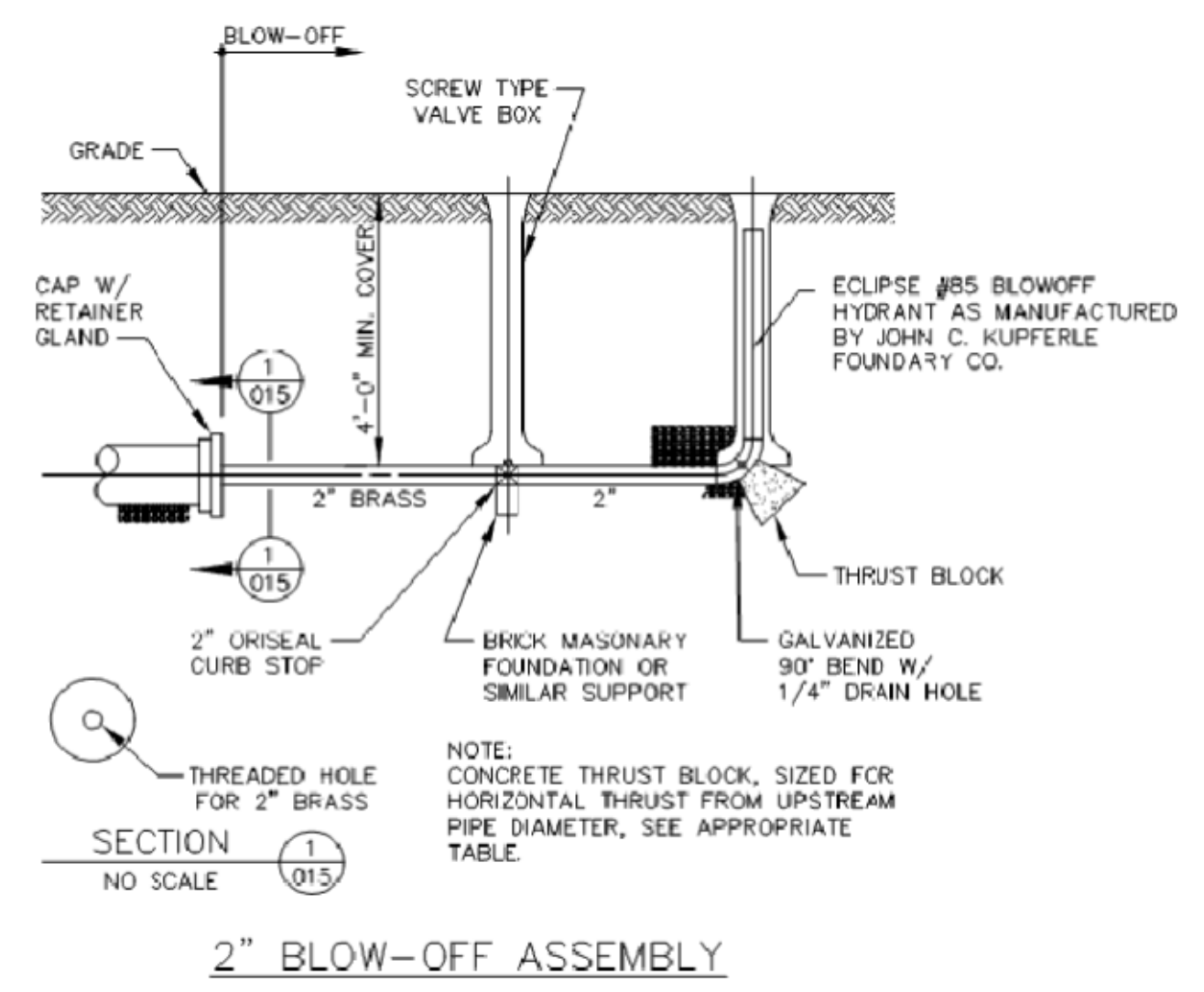
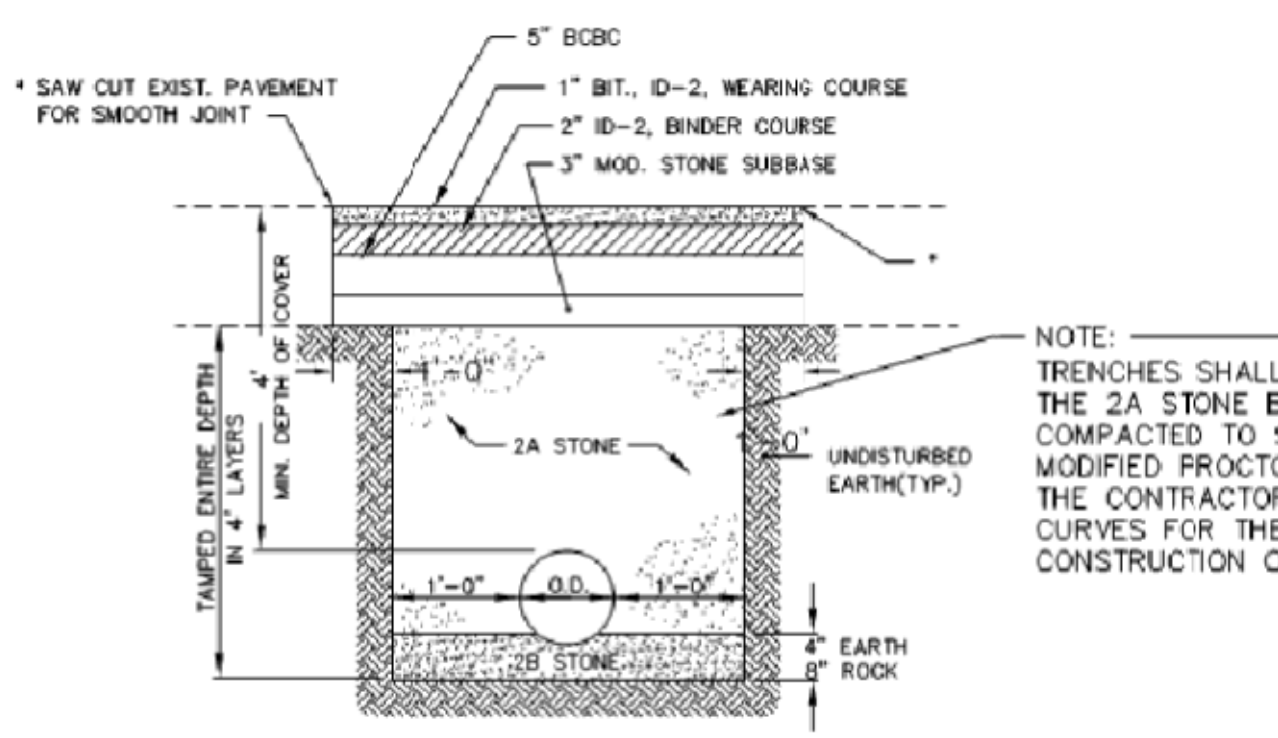
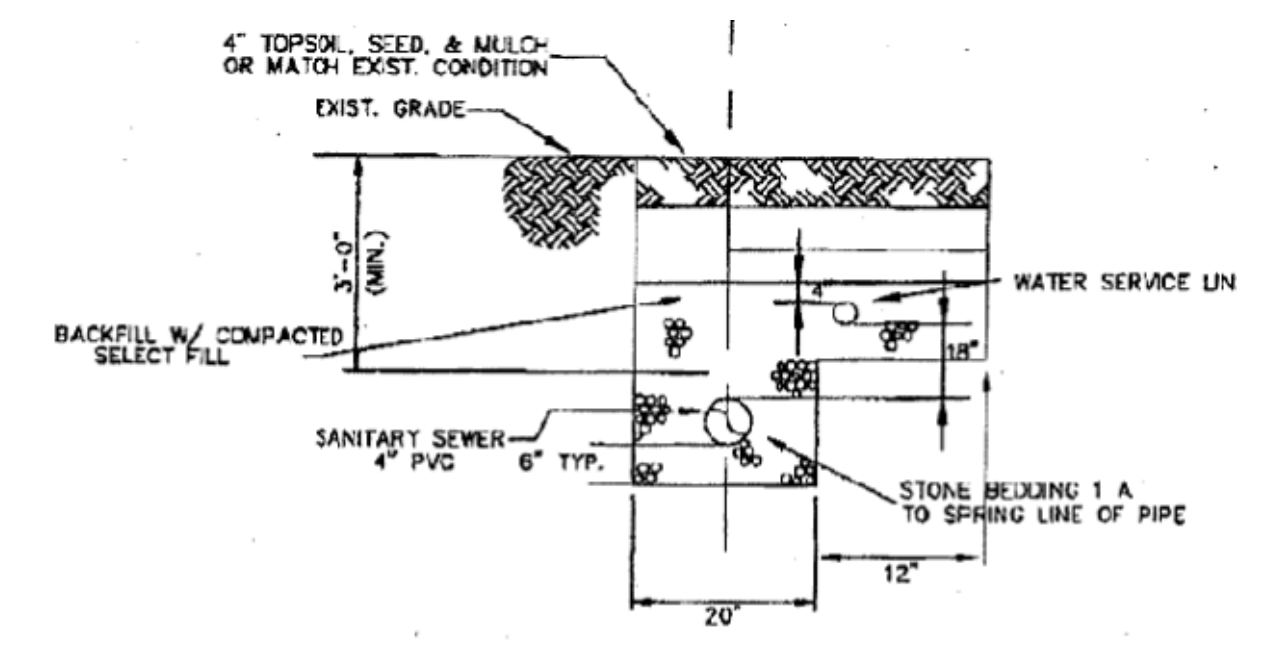
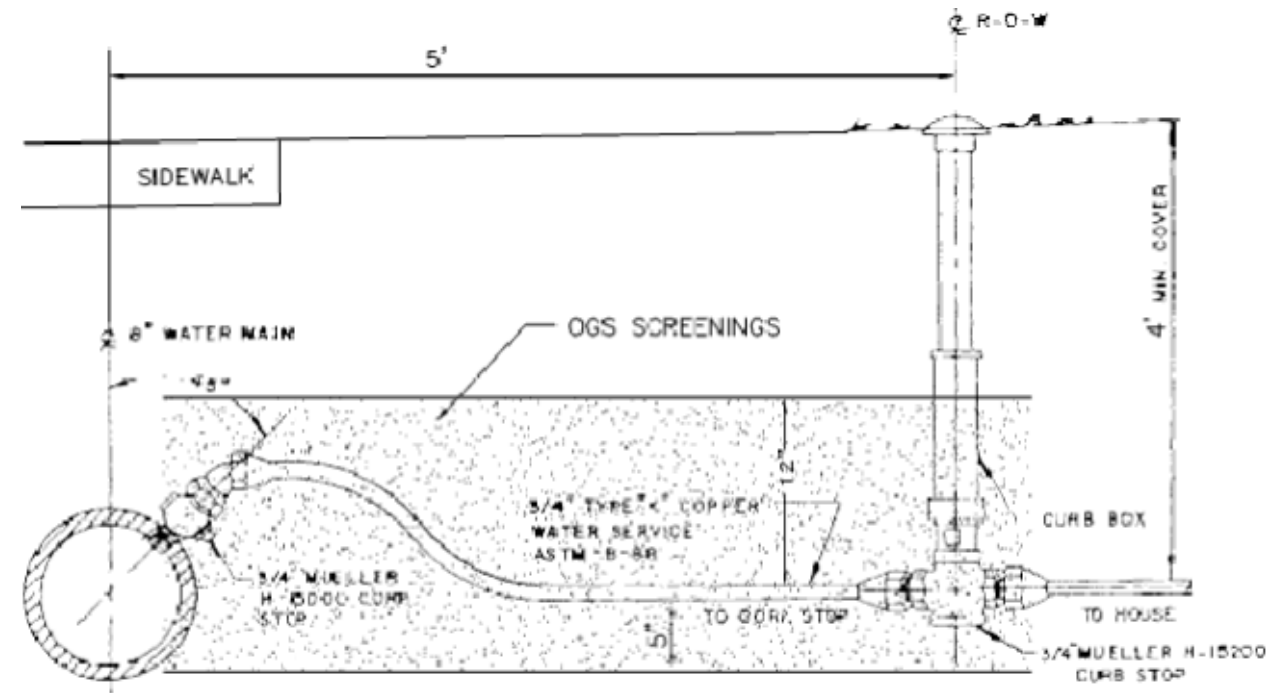
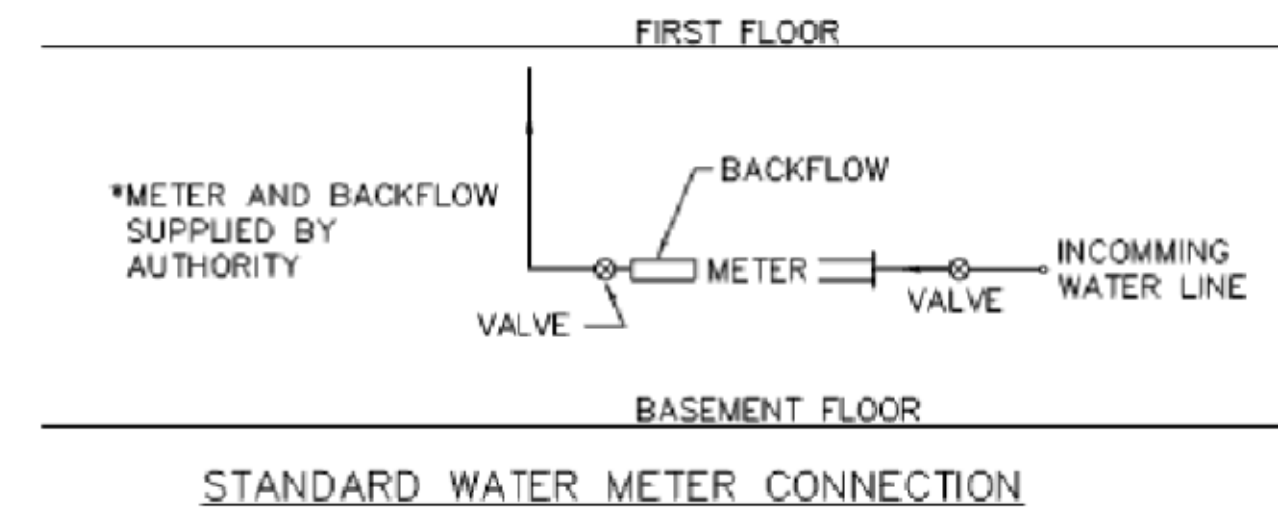
REVISION DATE: JANUARY 25, 2018
REVISION PER: TWP. ENG. (12/4/17), TWP. PLNR (12/5/17), TRAF. ENG. (12/5/17)
MAY 4, 2018
TWP. ENGR(3/8/18), TRFC ENGR(3/7/18), ALTA(3/8/18), ENTECH(3/7/18), MCOO(3/13/18)

CONSTRUCTION DETAILS
PREPARED FOR: PAUL W. MOYER & SONS
SITUA
NEW HANOVER TOWNSHIP
MONTGOMERY COUNTY PENNSYLVANIA

DATE: OCTOBER 10, 2017
MANAGER: RFI
DRAWN BY: MAB
SCALE: 1" = NONE

Job Number: 17-09
FILE NAME: 17-06BASE
SHEET: 9 OF 19

Land Use Consultants
Land Planning • Engineering • Landscape Architecture • Land Surveying
Inch Eberhardt Mentus INCORPORATED
Suite Three
2771 Cayle Place
Pottsville, PA 19073
610-541-4626
215-541-4623(fax)
E-Mail: info@EAM.com



MINIMUM SQUARE FEET OF BEARING SURFACE REQUIRED FOR HORIZONTAL THRUST AND VERTICAL THRUSTS DOWNWARD

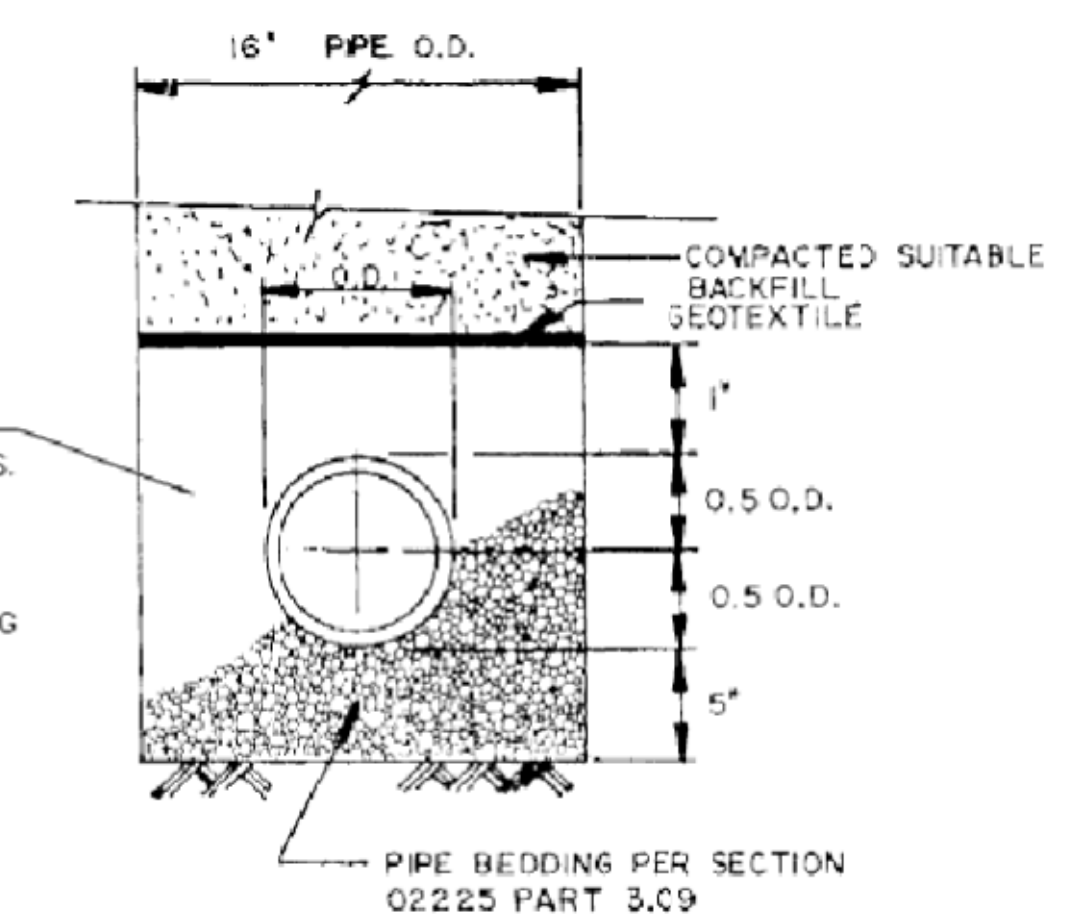
PIPE SIZES	6" & 8"			10" & 12"					
	DEGREE BEND OR DEFLECTION	11 1/4"	22 1/2"	45"	90"	11 1/4"	22 1/2"	45"	90"
TYPE OF BEARING MATERIAL AND ALLOWABLE LOADS									
SAND 1 TON/50 FT. SET 1 IN/50 FT.	150	300	600	1200	300	600	1200	2400	4800
SAND & GRAVEL 3 TON/50 FT.	100	200	400	800	200	400	800	1600	3200
CLAY 3 TON/50 FT.	100	200	400	100	200	400	100	200	400
SOFT ROCK 5 TON/50 FT.	100	200	400	100	200	400	100	200	400
ROCK 20 TON/50 FT.	100	200	400	100	200	400	100	200	400

MINIMUM SQUARE FEET OF BEARING SURFACE REQUIRED FOR HORIZONTAL THRUST BLOCKING AND VERTICAL THRUSTS DOWNWARD

PIPE SIZES	14" & 16"			18" & 20"					
	DEGREE BEND OR DEFLECTION	11 1/4"	22 1/2"	45"	90"	11 1/4"	22 1/2"	45"	90"
TYPE OF BEARING MATERIAL AND ALLOWABLE LOADS									
SAND 1 TON/50 FT. SET 1 IN/50 FT.	500	1100	2100	4300	850	1650	3300	6600	13200
SAND & GRAVEL 3 TON/50 FT.	350	700	1400	2800	550	1100	2200	4400	8800
CLAY 3 TON/50 FT.	200	400	800	1600	300	600	1200	2400	4800
SOFT ROCK 5 TON/50 FT.	100	200	400	800	100	200	400	800	1600
ROCK 20 TON/50 FT.	100	200	400	100	200	400	100	200	400

STANDARD DETAIL: THRUST BLOCKING SCHEDULE OF DIMENSIONS 150 PSI WORKING PRESSURE

SHOP DRAWINGS FOR ALL STRUCTURES AND MATERIALS TO BE USED FOR CONSTRUCTION OF ALL IMPROVEMENTS SHALL BE SUBMITTED PRIOR TO CONSTRUCTION



Buffalo Extension Service Boxes

These Buffalo extension service boxes have 2 1/2" stubs and come complete with top and bottom sections and a lid with a petting on head bolt. The new style of top (H-501) with an added cover adds strength and makes the top particularly useful in concrete sidewalks and driveways.

Size No.	Extension Range	Approximate Weight	Order No.
82-A	12"-24"	14 lbs.	P74201
82-B	18"-24"	17 lbs.	P74202
81-C	21"-33"	20 lbs.	P74203
82-C	24"-36"	23 lbs.	P74204
82-D	27"-42"	27 lbs.	P74205
82-E	33"-48"	29 lbs.	P74206
83-E	33"-54"	30 lbs.	P74207
84-D	42"-58"	31 lbs.	P74208
84-E	42"-60"	32 lbs.	P74209
84-F	54"-66"	37 lbs.	P74210

JOSEPH G. POLLARD CO., INC.
NEW HYDE PARK, NEW YORK 11042 • 516-746-0842

Pollard K-5

- WATERLINE NOTES:**
- CORPORATION STOPS SHALL BE MUELLER COMPANY NO. H-1500 OR APPROVED EQUAL, INSTALLED AS SHOWN IN THE STANDARD DETAILS.
 - CURB STOPS SHALL BE MUELLER H-1502-1 THREE-QUARTER INCH (3/4") STOPS. CURB BOXES SHALL BE INSTALLED WITH EACH CORPORATION STOP IN ACCORDANCE WITH STANDARD DETAILS.
 - CURB BOXES SHALL BE OF CAST IRON OF SUFFICIENT LENGTH TO REACH THE SURFACE OF THE GROUND, BUT SHALL NOT EXTEND ABOVE SURFACE. THE BOXES SHALL BE THE WORD "WATER" CAST IN THE TOP. CURB BOXES SHALL BE MUELLER NO. H-1503 WITH 85276 LIDS AND STATIONARY RODS OR APPROVED EQUAL.
 - BETWEEN ALL CORPORATION STOPS AND CURB STOPS, THERE SHALL BE INSTALLED COPPER SERVICE PIPE, TYPE K, SOFT TEMPER CONFORMING TO ASTM SPECIFICATION 05-62, HAVING THE SAME DIAMETER AS THE STOP, SUITABLE FOR UNDERGROUND SERVICE. A MINIMUM COVER OF 3 FT. SHALL BE MAINTAINED.
 - BLOWOFFS SHALL BE PROVIDED AT ALL DEAD ENDS. THEY SHALL BE 2 IN. DIAMETER FLUSHING HIDDEN HYDRANT BY OIL INDUSTRIES, PENSACOLA, FLORIDA, OR APPROVED EQUAL.
 - PRESSURE TESTING, CHLORINATION, AND BACTERIA TESTING SHALL MEET THE REQUIREMENTS OF AWWA AND THE RED HILL BOROUGH AUTHORITY ENGINEER. PRESSURE TESTING SHALL BE PERFORMED TO 150 PSI ON 500 FOOT REACHES OF LINE UNTIL SATISFACTORY RESULTS ARE ACHIEVED. DISINFECTION SHALL BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH AWWA CALCIUM HYPOCHLORITE SOLUTION FEED METHOD OR THE CALCIUM HYPOCHLORITE TABLET METHOD. BACTERIA TESTING SHALL BE PERFORMED FOLLOWING THE FLUSHING OF THE LINES AND SAMPLES BE TAKEN AND TESTED BY A CERTIFIED LABORATORY FOR TOTAL COLIFORM ANALYSIS. RE-CHLORINATION SHALL BE PERFORMED, IF NECESSARY, UNTIL SATISFACTORY RESULTS ARE ACHIEVED.

"MOYER TRACT - FARMVIEW ACRES"

REVISION DATE: DESCRIPTION:

JANUARY 23, 2018	REVISE PER TWP. ENG. (12/4/17), TWP. PLNR (12/5/17), TRAF. ENG. (12/5/17)
MAY 4, 2018	TWP. ENGR(3/6/18), TRFC ENGR(3/7/18), ALTA(3/8/18), ENTECH(3/7/18), MCCO(3/13/18)

DATE: OCTOBER 10, 2017

MANAGER: RFI

DRAWN BY: MAB

SCALE: 1" = NONE

DESCRIPTION: CONSTRUCTION DETAILS
PREPARED FOR
PAUL W. MOYER & SONS
SITUALE
NEW HANOVER TOWNSHIP
MONTGOMERY COUNTY PENNSYLVANIA

Land Use Consultants
Land Planning • Engineering • Landscape Architecture • Land Surveying

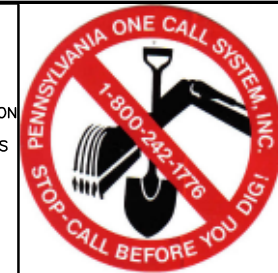
Trplek
Eberhardt
Mentus

17-09
FILE NAME: 17-09BASE
SHEET: 10 OF 19

Sully Three
2771 Gayville Pike
Petersburg, PA 16807
215-541-4626
215-541-4625(fax)
E-Mail: info@EANDM.com

STOP-CALL BEFORE YOU DIG!

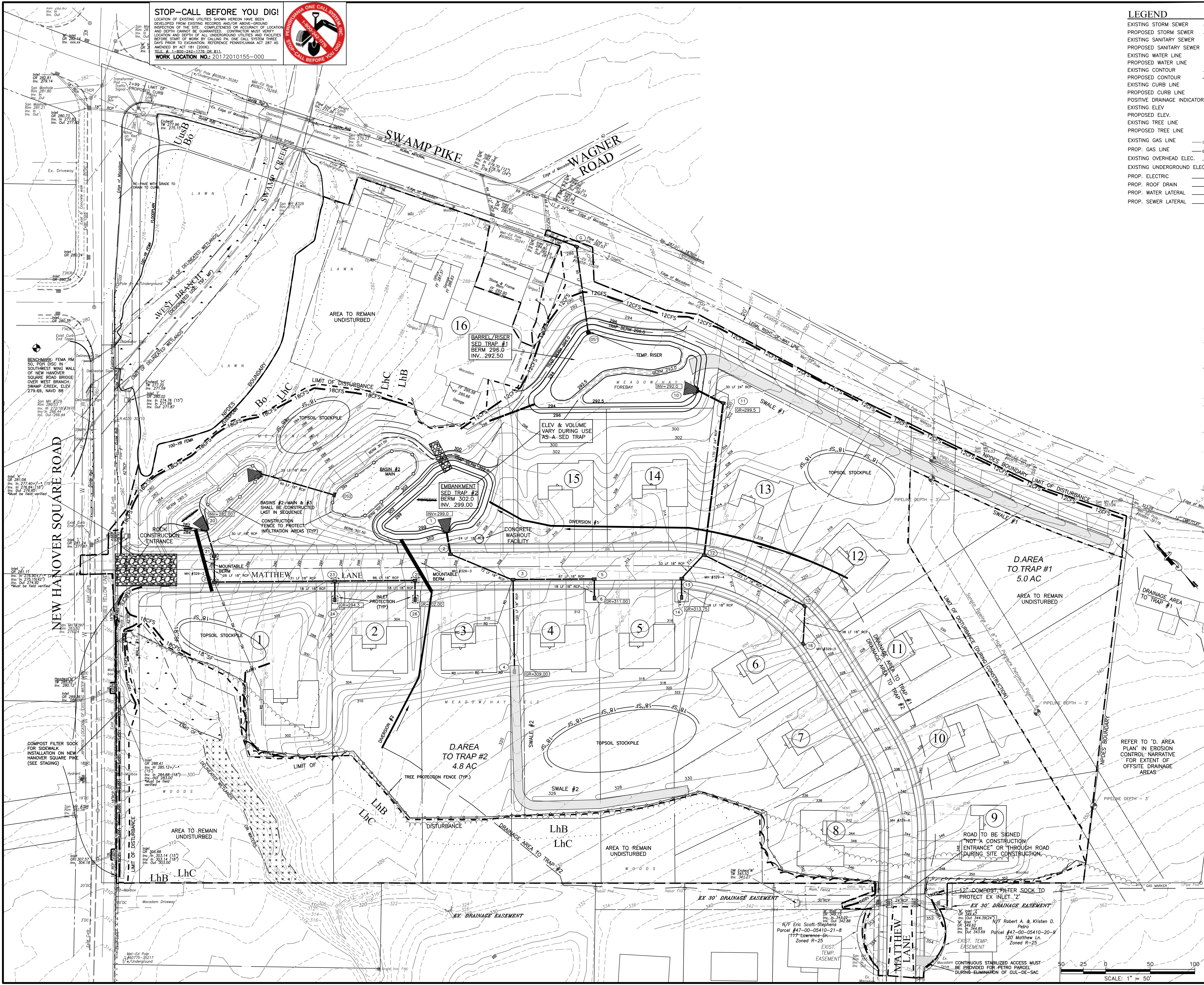
LOCATION OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE-CALL SYSTEM THREE DAYS PRIOR TO EXCAVATION. REFERENCE PENNSYLVANIA ACT 287 AS AMENDED BY ACT 181 (2006).
TOLL FREE 1-800-252-1776 OR 811
WORK LOCATION NO.: 20172010155-000



LEGEND

- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING WATER LINE
- PROPOSED WATER LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING CURB LINE
- PROPOSED CURB LINE
- POSITIVE DRAINAGE INDICATOR
- EXISTING ELEV.
- PROPOSED ELEV.
- EXISTING TREE LINE
- PROPOSED TREE LINE
- EXISTING GAS LINE
- PROP. GAS LINE
- EXISTING OVERHEAD ELEC.
- EXISTING UNDERGROUND ELEC.
- PROP. ELECTRIC
- PROP. ROOF DRAIN
- PROP. WATER LATERAL
- PROP. SEWER LATERAL

- SOIL LINE
- LIMIT OF DISTURBANCE
- NPDES BOUNDARY
- 18" SILT FENCE
- 12" COMPOST FILTER SOCK (CFS)
- 18" COMPOST FILTER SOCK (CFS)
- 24" COMPOST FILTER SOCK (CFS)
- 32" COMPOST FILTER SOCK (CFS)
- TOPSOIL STOCKPILE
- EROSION CONTROL LINER
- CONSTRUCTION ENTRANCE
- TREE PROTECTION FENCE



SOILS LEGEND

Soil Group	Hydroic Soil
Bo	BOWMANVILLE KNAUERS SILT LOAM C/D Y
LhB	LEHIGH SILT LOAM 3-8% SLOPES; MODERATELY ERODED C/D NO
LhC	LEHIGH SILT LOAM 8-15% SLOPES; MODERATELY ERODED C/D NO
UsB	URBAN LAND-UNDERTENTS SHALE AND SANDSTONE COMPLEX 0-8% SLOPES; MODERATELY ERODED

IF THE OPERATOR WILL BE STORING, USING OR TRANSPORTING HAZARDOUS WASTES AND MATERIALS, FUELS, CHEMICALS, OR SOLVENTS ONTO, ON, OR FROM THE PROJECT SITE DURING CONSTRUCTION, A PREPAREDNESS, PREVENTION AND CONTINGENCY (PPC) PLAN, MUST BE PREPARED BY THE OPERATOR AND AVAILABLE AT THE SITE AT ALL TIMES. "GUIDELINES FOR THE DEVELOPMENT AND IMPLEMENTATION OF ENVIRONMENTAL EMERGENCY RESPONSE PLANS" (DOCUMENT #400-2200-001) CAN BE FOUND AT WWW.DEPWEB.STATE.PA.US

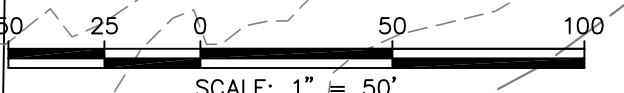
"MOYER TRACT - FARMVIEW ACRES"

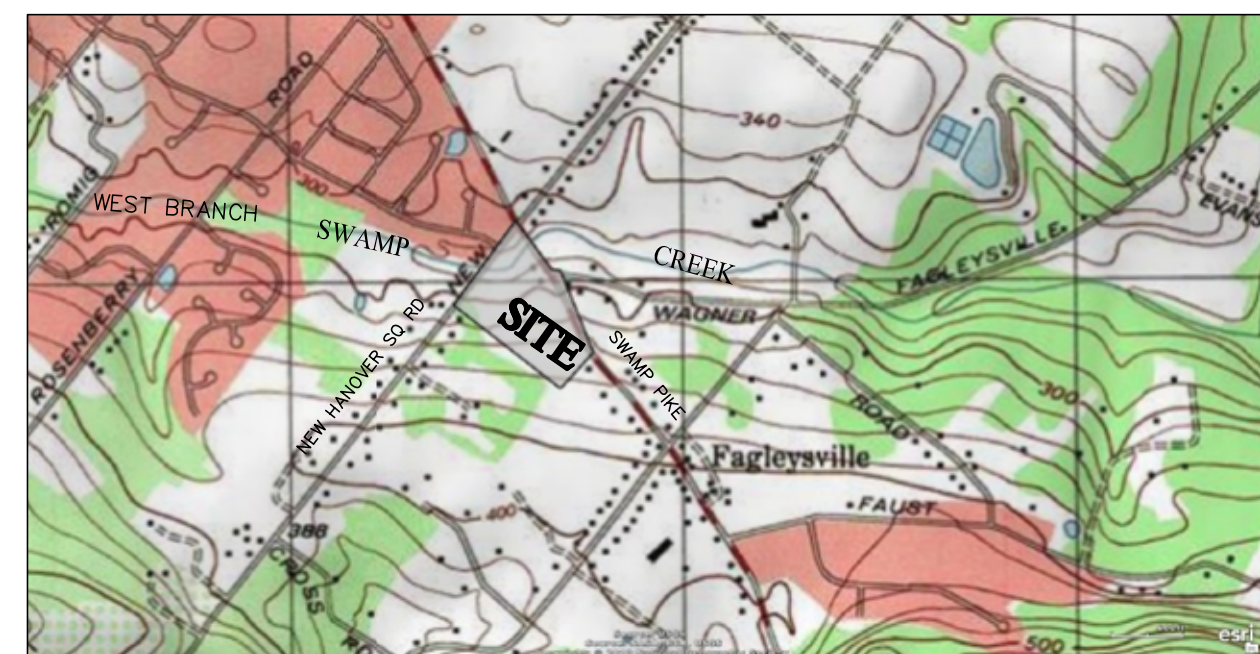
REVISION DATE:	DESCRIPTION:
JANUARY 25, 2018	REVISE PER TWP. ENG. (12/4/17), TWP. PLNR (12/5/17), TRAF. ENG. (12/5/17)
FEBRUARY 6, 2018	REVISE PER MCOCD PRE-APP (2/1/18), NPDES SUB
MAY 4, 2018	TWP. ENG.(3/6/18), TWP. PLNR(3/6/18), TRAF. ENG.(3/7/18), ENTC(3/7/18), MCOCD(3/13/18)

EROSION CONTROL PLAN
PREPARED FOR
PAUL W. MOYER & SONS
SITUATE
NEW HANOVER TOWNSHIP
MONTGOMERY COUNTY PENNSYLVANIA

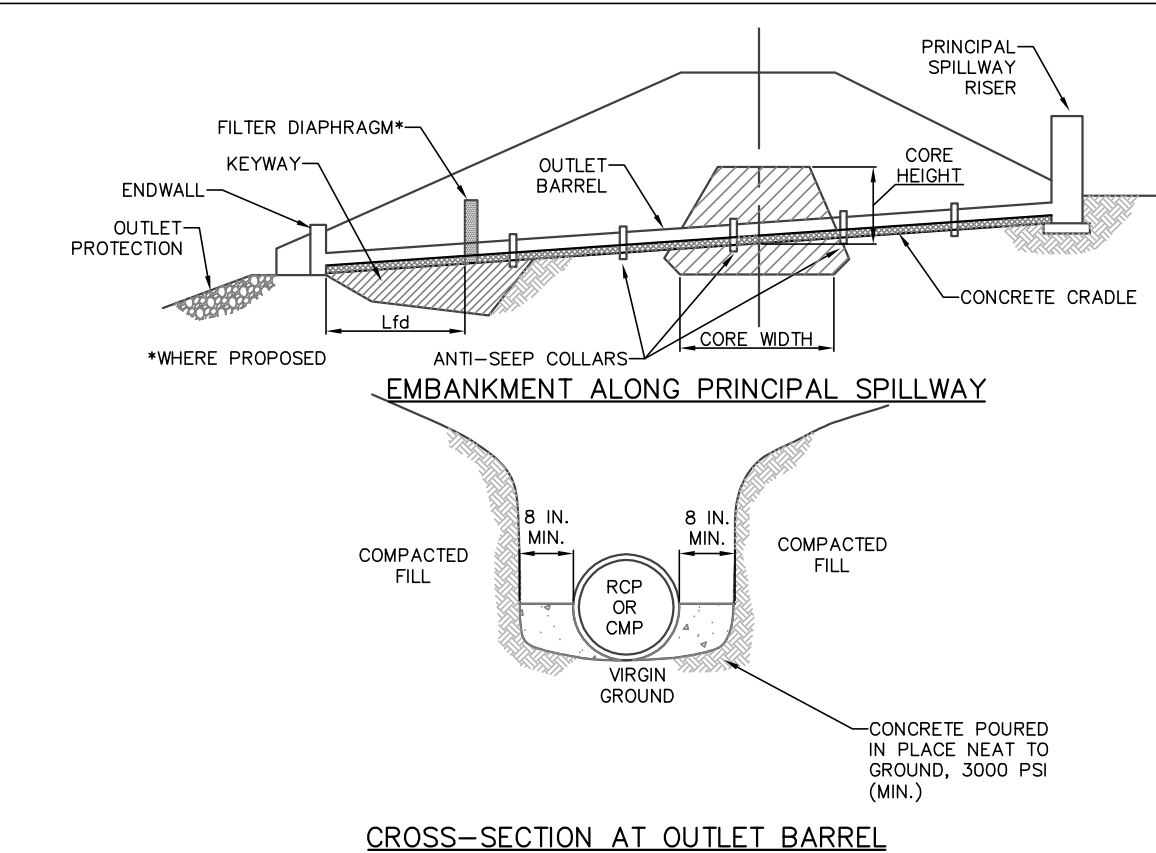
DATE: OCTOBER 10, 2017
MANAGER: RFI 17-06
DRAWN BY: RFI 17-06BASE
SCALE: 1" = 50'
SHEET: 11 OF 19

rick eberhardt mentis
INCORPORATED
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Pittsburg, PA 15273
215-541-4626
215-541-4023(fax)
E-Mail: info@ENDM.com



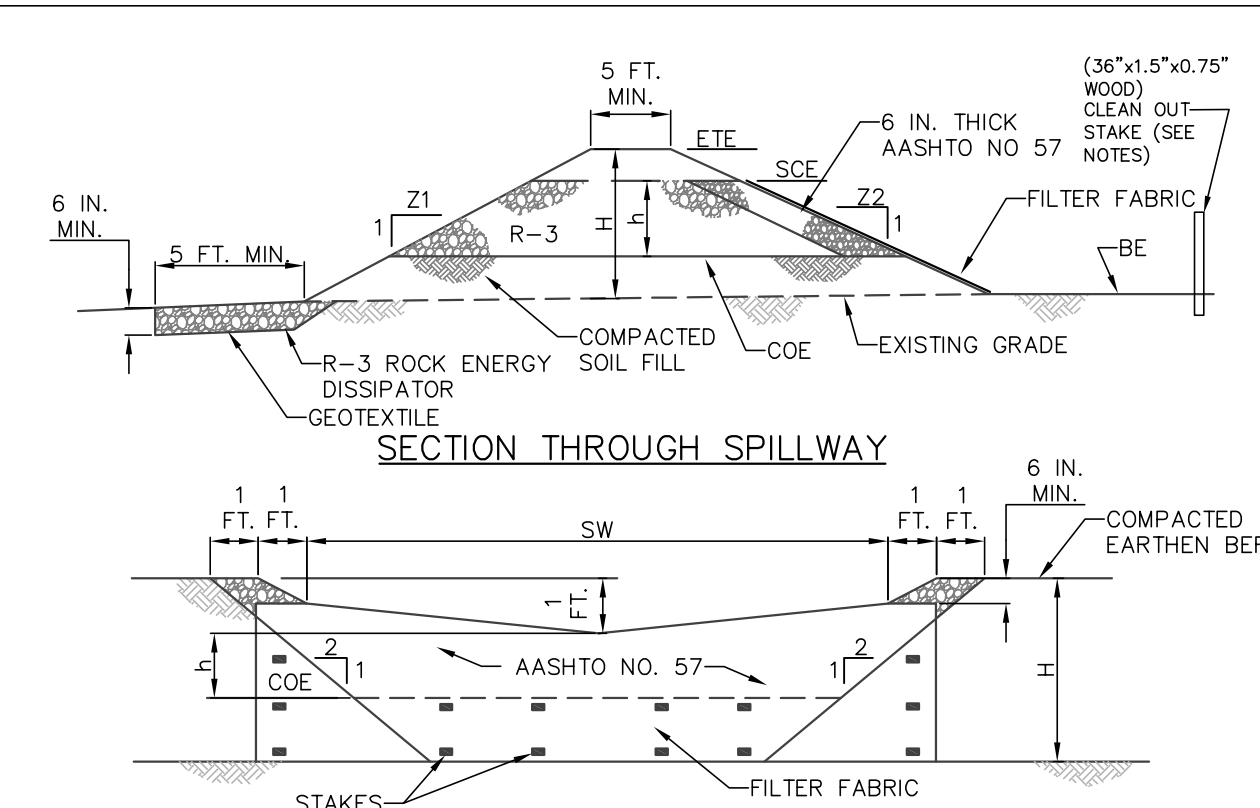


USGS LOCATION MAP (SASSAMANSVILLE QUAD)



CROSS-SECTION AT OUTLET BARREL

**STANDARD CONSTRUCTION DETAIL #7-17
CONCRETE CRADLE FOR BASIN OR TRAP OUTLET BARREL**



SECTION THROUGH SPILLWAY

INSIDE FACE

TRAP NO.	Z1 (FT)	Z2 (FT)	H (FT)	h (FT)	EMBANK TOP ELEV. (FT)	SPILLWAY CREST ELEV. (FT)	CLEAN OUT ELEV. (FT)	BOTTOM ELEV. (FT)	SPILLWAY SW (FT)
2	3	3	3	2	302.0	301.0	300.0	299.0	10

NOTES:

EMBANKMENT OUTLET SHALL BE COMPOSED ENTIRELY OF ROCK ABOVE CLEAN OUT ELEVATION (COE); MAIN BODY R-4 OR LARGER TO R-4 TO BE USED FOR DRAINAGE AREAS GREATER THAN 3.0 ACRES; INSIDE FACE AASHTO # 57 STONE OR SMALLER, A 6 IN. THICK LAYER OF COMPOST, COMPOST SOCK, OR CLEAN SAND SHALL BE INSTALLED ON TOP OF THE AASHTO #57 STONE AND SECURELY ANCHORED IN HO WATERSHEDS. 24 IN. DIAMETER COMPOST SOCK(S) SHALL BE USED IN PLACE OF FILTER FABRIC AND AASHTO #57 STONE IN EV WATERSHEDS.

FILL MATERIAL FOR THE EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN LAYERED LIFTS OF NOT MORE THAN 9 IN. THE MAXIMUM ROCK SIZE SHALL BE NOT GREATER THAN 6 IN.

UPON COMPLETION, THE EMBANKMENT SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED ACCORDING TO THE SPECIFICATIONS OF THE E&S PLAN DRAWINGS.

ALL SEDIMENT TRAPS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT.

ACCESS FOR SEDIMENT REMOVAL AND OTHER REQUIRED MAINTENANCE ACTIVITIES SHALL BE PROVIDED.

A CLEAN OUT STAKE SHALL BE PLACED NEAR THE CENTER OF EACH TRAP. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED THE CLEAN OUT ELEVATION ON THE STAKE AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS. DISPOSE OF MATERIALS REMOVED FROM THE TRAP IN THE MANNER DESCRIBED IN THE E&S PLAN.

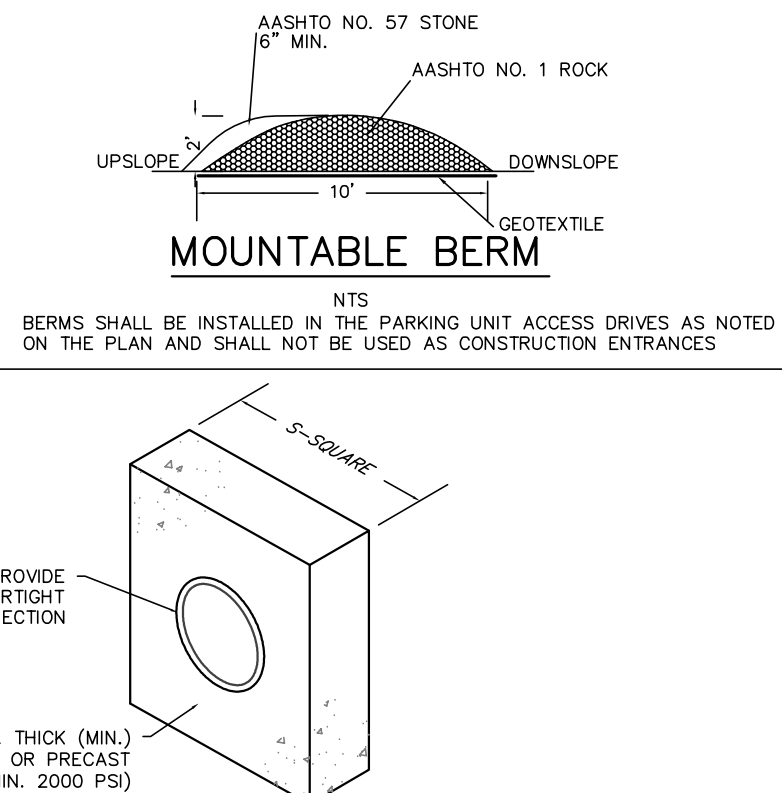
CHECK EMBANKMENTS, SPILLWAYS, AND OUTLETS FOR EROSION, PIPING AND SETTLEMENT. CLOGGED OR DAMAGED SPILLWAYS AND/OR EMBANKMENTS SHALL BE IMMEDIATELY RESTORED TO THE DESIGN SPECIFICATIONS.

DISPLACED RIPRAP WITHIN THE SPILLWAY OR OUTLET PROTECTION SHALL BE REPLACED IMMEDIATELY.

ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISTURBED AREAS INSIDE THE TRAP SHALL BE STABILIZED BEFORE CONVERSION TO A STORMWATER MANAGEMENT FACILITY. TO ASSIST IN REMOVING SEDIMENT, WHICH MAY BE SATURATED, A DEVICE SUCH AS IS SHOWN IN STANDARD CONSTRUCTION DETAIL #7-18 MAY BE USED TO DEWATER THE SEDIMENT PRIOR TO ITS REMOVAL.

**STANDARD CONSTRUCTION DETAIL #8-1
EMBANKMENT SEDIMENT TRAP**

NOT TO SCALE



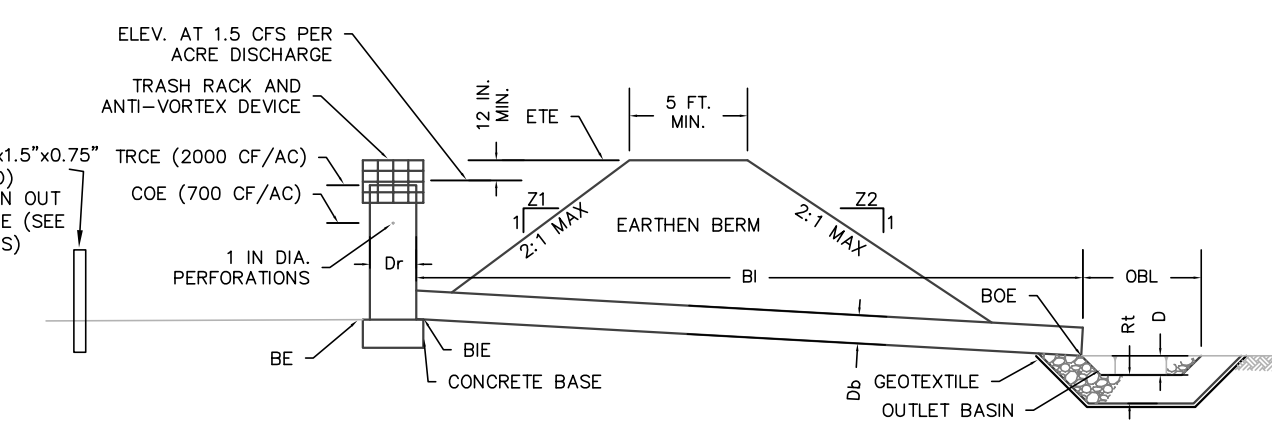
BASIN OR TRAP NO.	PIPE SIZE (IN)	S (IN)	NO OF COLLARS	RISER TO FIRST COLLAR (FT)	COLLAR SPACING (FT)
TRAP 1	15	58	1	12	NA

NOTES:

- ALL COLLARS AND THEIR CONNECTION TO THE PIPE, OR BARREL, SHALL BE INSTALLED SO AS TO BE WATER TIGHT.
- COLLAR SIZE AND SPACING SHALL BE AS INDICATED WITHIN TABLE.
- COLLARS SHOULD NOT BE LOCATED CLOSER THAN 2 FEET TO A PIPE JOINT.

**STANDARD CONSTRUCTION DETAIL #7-16
CONCRETE ANTI-SEEP COLLAR FOR PERMANENT BASINS OR TRAPS**

NOT TO SCALE



TRAP NO.	Z1 (FT)	Z2 (FT)	TRAP MATL.	RISER CREST ELEV. (FT)	RISER BOT PERE ELEV. (FT)	BOT MATL. DIA. (IN)	BARREL DIA. (IN)	INLET DIA. (IN)	OUTLET DIA. (IN)	EMBANKMENT TOP ELEV. (FT)	EMBANKMENT ELEV. (FT)	CLEAN OUT ELEV. (FT)	BOTTOM ELEV. (FT)
1	3	4	CMP	294.5	293.50	RCP 15	290.0	102	282.5	296.0	5.0	293.5	292.5

TRAP NO.	Z1 (FT)	Z2 (FT)	TRAP MATL.	RISER CREST ELEV. (FT)	RISER BOT PERE ELEV. (FT)	BOT MATL. DIA. (IN)	BARREL DIA. (IN)	INLET DIA. (IN)	OUTLET DIA. (IN)	EMBANKMENT TOP ELEV. (FT)	EMBANKMENT ELEV. (FT)	CLEAN OUT ELEV. (FT)	BOTTOM ELEV. (FT)
1	48	48	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:

SEE DETAIL #8-3 TEMPORARY RISER FOR DETAILS OF THE TEMPORARY RISER CONSTRUCTION.

FILL MATERIAL FOR THE EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN LAYERED LIFTS OF NOT MORE THAN 9 IN. THE MAXIMUM ROCK SIZE SHALL BE NO GREATER THAN 2 1/2 THE LIFT THICKNESS.

UPON COMPLETION, THE EMBANKMENT SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED ACCORDING TO THE SPECIFICATIONS OF THE E&S PLAN DRAWINGS.

ALL SEDIMENT TRAPS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT.

ACCESS FOR SEDIMENT REMOVAL AND OTHER REQUIRED MAINTENANCE ACTIVITIES SHALL BE PROVIDED.

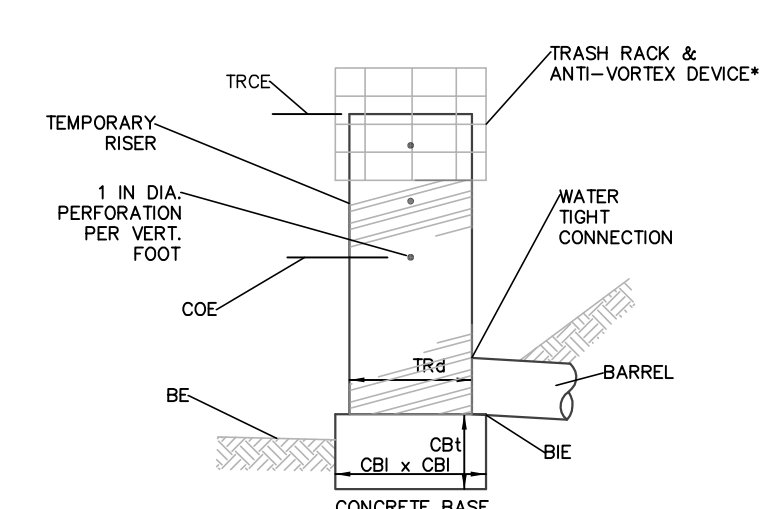
A CLEAN OUT STAKE SHALL BE PLACED NEAR THE CENTER OF EACH TRAP. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED THE CLEAN OUT ELEVATION ON THE STAKE AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS. DISPOSE OF MATERIALS REMOVED FROM THE TRAP IN THE MANNER DESCRIBED IN THE E&S PLAN.

CHECK EMBANKMENTS, SPILLWAYS, AND OUTLETS FOR EROSION, PIPING AND SETTLEMENT. CLOGGED OR DAMAGED SPILLWAYS AND/OR EMBANKMENTS SHALL BE IMMEDIATELY RESTORED TO THE DESIGN SPECIFICATIONS. DISPLACED RIPRAP WITHIN THE OUTLET PROTECTION SHALL BE REPLACED IMMEDIATELY.

ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISTURBED AREAS INSIDE THE TRAP SHALL BE STABILIZED BEFORE CONVERSION TO A STORMWATER MANAGEMENT FACILITY. TO ASSIST IN REMOVING SEDIMENT, WHICH MAY BE SATURATED, A DEVICE SUCH AS IS SHOWN IN STANDARD CONSTRUCTION DETAIL #7-18 MAY BE USED TO DEWATER THE SEDIMENT PRIOR TO ITS REMOVAL.

**STANDARD CONSTRUCTION DETAIL #8-2
BARREL/RISER SEDIMENT TRAP**

NOT TO SCALE



SEE STANDARD CONSTRUCTION DETAIL #7-5, TRASH RACK AND ANTI-VORTEX DEVICE.

TRAP NO.	DIA. (IN)	CRIST ELEV. (FT)	MATL.	CLEAN OUT ELEV. (FT)	LENGTH (FT)	WIDTH (IN)	THICK. (IN)	INLET ELEV. (FT)
1	24	294.5	CMP	293.5	48	48	8	290.0

NOTES:

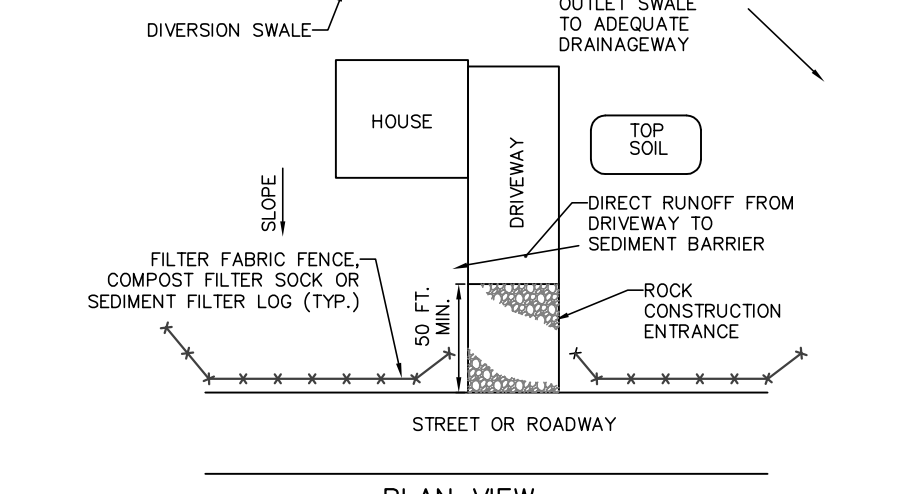
A MINIMUM OF 2-#8 REBAR SHALL BE PLACED AT RIGHT ANGLES AND PROJECTING THROUGH SIDES OF RISER TO ANCHOR IT TO CONCRETE BASE. REBAR SHALL PROJECT A MINIMUM OF 1/4 RISER DIAMETER BEYOND OUTSIDE OF RISER.

CONCRETE BASE SHALL BE POURED IN SUCH A MANNER SO AS TO ENSURE THAT CONCRETE FILLS BOTTOM OF RISER TO IN OF THE OUTLET PIPE TO PREVENT RISER FROM BREAKING AWAY FROM THE BASE. MINIMUM BASE WIDTH EQUALS 2 TIMES RISER DIAMETER.

EMBEDDED SECTION OF ALUMINUM OR ALUMINIZED PIPE SHALL BE PAINTED WITH ZINC CHROMATE OR EQUIVALENT.

CLOGGED OR DAMAGED SPILLWAYS SHALL BE REPAIRED IMMEDIATELY. TRASH AND OTHER DEBRIS SHALL BE REMOVED FROM THE BASIN AND RISER.

**STANDARD CONSTRUCTION DETAIL #8-3
SEDIMENT TRAP TEMPORARY RISER**

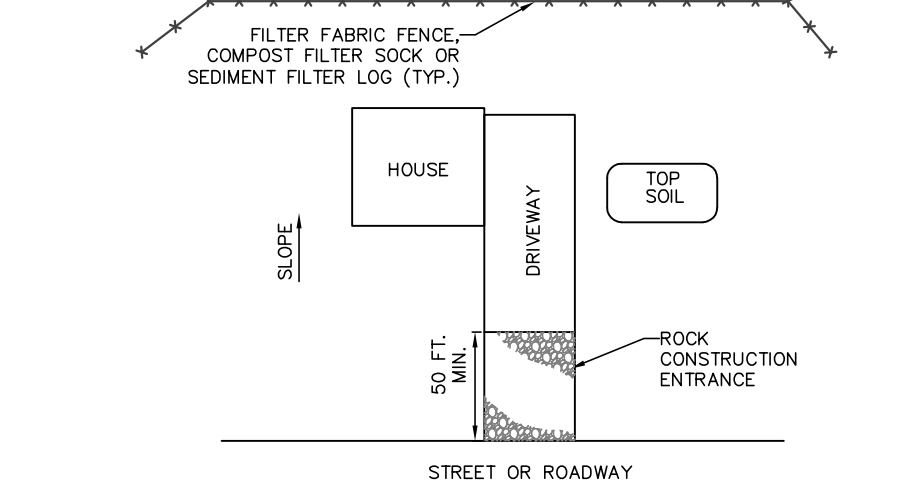


NOTES:

THE UPSLOPE DIVERSION CHANNEL SHOULD BE INSTALLED WHEREVER THE LOT EXTENDS MORE THAN 150 FEET ABOVE THE ROADWAY OR WHERE RUNOFF FROM AREAS ABOVE THE LOT IS NOT OTHERWISE DIVERTED AWAY FROM THE LOT. THE CHANNEL SHOULD BE PROPERLY SIZED AND PROVIDED WITH A SUITABLE PROTECTIVE LINING. THE DESIGNER AND/OR CONTRACTOR MUST EXERCISE CAUTION TO PROTECT ALL DOWNSTREAM PROPERTY OWNERS WHEN SELECTING A DISCHARGE POINT FOR THIS CHANNEL.

**STANDARD CONSTRUCTION DETAIL #10-1
TYPICAL ON-LOT BMPs FOR LOT ABOVE ROADWAY**

NOT TO SCALE

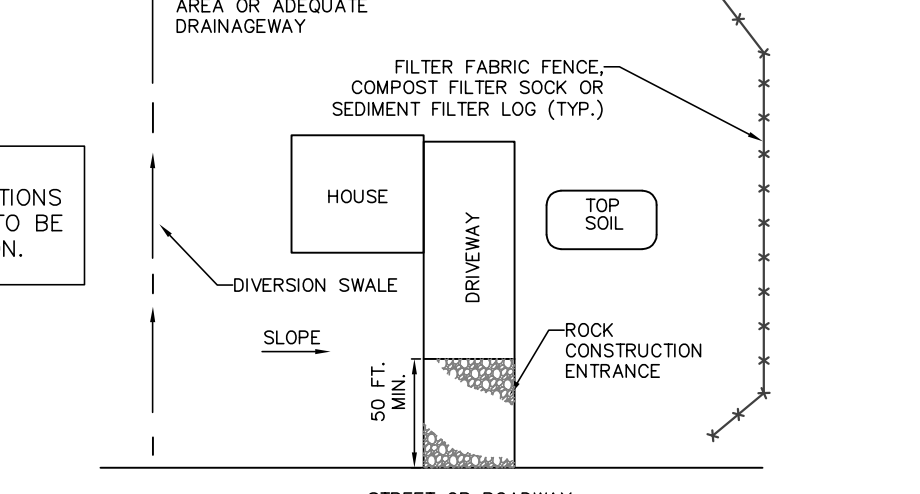


NOTES:

THE AREA DOWNSLOPE OF THE FILTER FENCE/COMPOST SOCK BARRIER/SEDIMENT FILTER LOG MAY NOT BE UNDER DEVELOPMENT OR OTHERWISE DISTURBED.

**STANDARD CONSTRUCTION DETAIL #10-2
TYPICAL ON-LOT BMPs FOR LOT BELOW ROADWAY**

NOT TO SCALE



NOTES:

THE AREA DOWNSLOPE OF THE FILTER FENCE/COMPOST SOCK BARRIER/SEDIMENT FILTER LOG MAY NOT BE UNDER DEVELOPMENT OR OTHERWISE DISTURBED.

**STANDARD CONSTRUCTION DETAIL #10-3
TYPICAL ON-LOT BMPs FOR LOT ALONG ASCENDING OR DESCENDING ROADWAY**

NOT TO SCALE

REFER TO CONCRETE WASHOUT FACILITY DETAIL AND SPECIFICATIONS FOR ANY WASHOUT FACILITIES TO BE USED IN BUILDING CONSTRUCTION.

STANDARD E&S PLAN NOTES.

- ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
- AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
- AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
- CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPs SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
- AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
- TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 3H:1V OR FLATTER.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
- 102.4(b)(5)(iii) ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 2601 ET. SEC. 271.1 AND 261.1 ET. SEC. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- SILT FENCE AND OTHER NON-ORGANIC E&S DEVICES/MATERIALS SHOULD BE REMOVED TO APPROPRIATE LANDFILL OR RECYCLED.
- ORGANIC MATERIAL SUCH AS SEDIMENT, TOPSOIL, CHIPPED MATERIAL MAY NOT BE LEFT ON SITE, GRADED AND STABILIZED, BUT SHOULD NOT BE USED AS FILL MATERIAL.
- ROCK AND OTHER MATERIAL FROM CONSTRUCTION ENTRANCES MAY BE USED ON-SITE AS FILL MATERIAL, WHERE APPROPRIATE.
- COMPOST FILTER SOCKS MAY BE OPENED AND DISPERSED ON-SITE.
- ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FILL FP-01 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL ASSURED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
- ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
- VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM THE SITE EXCEPT AT THE ROCK CONSTRUCTION ENTRANCE AT NEW HANOVER SQUARE ROAD.
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADE, RESEEDING, REMULCHING AND RESETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED. INSPECTION REPORT DOCUMENT CAN BE FOUND AT <http://www.ehbrary.dep.state.pa.us/dsweb/View/Collection-10694> OR APPENDIX A OF THE E&S NARRATIVE.
- A LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
- SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELLED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
- AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES - 8 TO 12 INCHES ON COMPACTED SOILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL SLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
- ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- FILL MATERIAL SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOIL, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN ON THE APPROVED METHOD.
- ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDING AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
- IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
- PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL TO % VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION, CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
- E&S BMPs SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPs.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPs. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPs SHALL BE STABILIZED IMMEDIATELY IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
- THE NPDES BOUNDARY DIFFERS FROM THE LIMITS OF DISTURBANCE FOR THE SITE AND ANY OFF-SITE AREAS WITHIN THE LIMITS OF DISTURBANCE THAT ARE THE RESPONSIBILITY OF THE DEVELOPER TO INSTALL, OFF-SITE FACILITIES SUCH AS: UTILITY CONNECTIONS AND ROADWAY IMPROVEMENTS.
- IF THE SITE WILL NEED TO HAVE FILL IMPORTED FROM AN OFF-SITE LOCATION, THE RESPONSIBILITY FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE AND THE DETERMINATION OF CLEAN FILL WILL IN MOST CASES RESIDE WITH THE OPERATOR. IF THE SITE WILL HAVE EXCESS FILL THAT WILL NEED TO BE EXPORTED TO AN OFF-SITE LOCATION, THE RESPONSIBILITY OF CLEAN FILL DETERMINATION AND ENVIRONMENTAL DUE DILIGENCE RESTS IN THE APPLICANT. THIS INFORMATION SHOULD BE COMPLETED PRIOR TO SUBMITTING A PERMIT APPLICATION. IF ALL CUT AND FILL MATERIALS WILL BE USED ON-SITE AND A CLEAN FILL DETERMINATION IS NOT REQUIRED BY THE OPERATOR UNLESS THERE IS A BELIEF THAT A SPILL OR RELEASE OF A REGULATED SUBSTANCE OCCURRED ON SITE. CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM CLEAN FILL DOES NOT INCLUDE ASPHALT, 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 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). ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS 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. ALL FILL MATERIAL MUST BE USED IN ACCORDANCE WITH THE DEPARTMENT'S POLICY. "MANAGEMENT OF FILL," DOCUMENT NUMBER 256-2182-773. A COPY OF THIS POLICY IS AVAILABLE ONLINE AT WWW.DEP.WEB.STATE.PA.US. REFER TO "TECHNICAL GUIDANCE DOCUMENT" #258-2182-773.

"MOYER TRACT - FARMVIEW ACRES"

REVISION DATE:	DESCRIPTION:
JANUARY 25, 2018	REVISE PER TWP. ENR. (12/4/17), TWP. FLR. (12/5/17), TRAF. ENR. (12/9/17)
MAY 4, 2018	TWP ENR(3/6/18); TRFC ENR(3/7/18); ALTA(3/6/18); ENTECH(3/7/18); MCCD(3/13/18)
MAY 4, 2018	TWP ENR(3/6/18); TRFC ENR(3/7/18); ALTA(3/6/18); ENTECH(3/7/18); MCCD(3/13/18)

E&S DETAILS
 PREPARED FOR
PAUL W. MOYER & SONS
 SITUATE
 NEW HANOVER TOWNSHIP
 MONTGOMERY COUNTY PENNSYLVANIA

DATE: OCTOBER 10, 2017

MANAGER: RFI JOB NUMB: 17-09

DRAWN BY: ETE FILE NAME: 17-06BASE

SCALE: 1" = NONE SHEET: 13 OF 19

Trek Eberhardt Mantis INCORPORATED

Land Use Consultants
 and Planning • Engineering • Landscape Architecture • Land Surveying

Suite Three
 2771 Davison Pike
 Pottsville, PA 18873
 717-541-4626
 215-541-6633 fax
 E-Mail: info@ANDM.com

STOP-CALL BEFORE YOU DIG!

LOCATION OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE-CALL SYSTEM THREE DAYS PRIOR TO EXCAVATION. REFERENCE PENNSYLVANIA ACT 287 AS AMENDED BY ACT 181 (2006).
TOLL FREE 1-800-252-3776 OR 811
WORK LOCATION NO. 20172010155-000



GENERAL PCSM NOTES

- SANITARY SEWER EASEMENTS SHALL NOT BE PLANTED WITH TREES OR SHRUBS OR BUILT UPON. STORM DRAINAGE AND ENVIRONMENTAL PROTECTION EASEMENTS SHALL NOT BE CONSTRUCTED UPON OR FILLED IN WITH EARTH OR DEBRIS.
- STREET TREES SHALL BE OF THE SPECIES AS NOTED ON THE PCSM PLANS AND ARE CONSIDERED PART OF THE PCSM (POST CONSTRUCTION STORMWATER MANAGEMENT) FOR THIS SITE.
- HOUSING UNITS AS DEPICTED ON THE CONSTRUCTION DRAWINGS ARE APPROXIMATE ONLY. ACTUAL HOUSE LOCATIONS AND ELEVATIONS SHALL BE DETERMINED WHEN APPLICATION FOR THE INDIVIDUAL BUILDING PERMIT IS MADE.
- PAUL W. MOYER & SONS, INC. WILL OWN AND MAINTAIN THE FOLLOWING:
 - THREE (3) BIORETENTION BASINS.
 - SWALES #1 & #2.
 - LANDSCAPING CONSIDERED TO BE A PERMANENT BMP (SEE PCSM PLANS AND DETAIL SHEETS).
 OWNERSHIP & MAINTENANCE DOCUMENTATION SHALL INCLUDE A LAND PRESERVATION/PROTECTION AGREEMENT, DEED RESTRICTION OR OTHER ENFORCEABLE INSTRUMENT THAT ENSURES AND DEFINES PROTECTION AND MAINTENANCE OF THE SWALES, BASINS AND OTHER PERMANENT BMPS AS NOTED ON THE PCSM PLAN AND SHALL BE RECORDED IN CONFORMANCE WITH NPDES PERMIT APPROVAL REQUIREMENTS.
- NO PERSON SHALL MODIFY, REMOVE, FILL, LANDSCAPE, OR ALTER ANY EXISTING STORMWATER CONTROL OR BMP UNLESS IT IS PART OF AN APPROVED MAINTENANCE PROGRAM, WITHOUT THE APPROVAL OF NEW HANOVER TWP.
- NO PERSON SHALL PLACE ANY STRUCTURE, FILL, LANDSCAPING, OR VEGETATION INTO A STORMWATER CONTROL OR BMP OR WITHIN A DRAINAGE EASEMENT THAT WOULD LIMIT OR ALTER THE FUNCTIONING OF THE STORMWATER CONTROL OR BMP WITHOUT THE WRITTEN APPROVAL OF NEW HANOVER TWP.
- PAUL W. MOYER & SONS, INC. SHALL HAVE OWNERSHIP AND THE RESPONSIBILITY FOR THE PERPETUAL MAINTENANCE OF THE BIORETENTION BASINS, OUTLET STRUCTURE AND PIPES WHICH ARE LOCATED WITHIN THE DEVELOPMENT AND OUTSIDE OF THE PUBLIC ROAD RIGHT OF WAYS. NO CHANGES SHALL BE MADE TO THE STRUCTURES, PIPES OR FINISH GRADING WITHOUT PRIOR WRITTEN APPROVAL FROM THE TOWNSHIP. THE TOWNSHIP HAS THE RIGHT TO ENTER THE LOT TO PERFORM ANY REQUIRED MAINTENANCE WHICH HAS NOT BEEN PROPERLY PERFORMED OR CARRIED OUT IN A TIMELY MANNER. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR THE COST OF ANY MAINTENANCE WHICH IS PERFORMED BY THE TOWNSHIP.
- THIS PLAN TO BE USED IN CONJUNCTION WITH THE PCSM DETAIL PLANS & THE PCSM NARRATIVE, LAST REVISED 2/6/18 PREPARED FOR THIS SITE BY THIS OFFICE. REFER TO EROSION CONTROL PLANS AND NARRATIVE, LAST REVISED 2/6/18.
- NPDES 'MANAGED AREA' FOR THIS DEVELOPMENT IS THE LIMIT OF NPDES BOUNDARY AS DEFINED BY THE FLOODPLAIN, ULTIMATE RIGHT OF WAY AND TRACT BOUNDARY. NPDES VOLUME CONTROL REQUIREMENTS ARE MET WITH THE PERMANENT BMPS: BIORETENTION BASINS PROVIDED ON SITE. DETENTION AND RATE CONTROL FOR STORMS ABOVE THE 2-YEAR EVENT (5, 10, 25, 50 & 100) ARE PROVIDED WITHIN THE BASINS PER TOWNSHIP STORMWATER REGULATIONS.
- EXTRA 'FUTURE' IMPERVIOUS SURFACES (0.17 ac) ARE COMPENSATED FOR IN THE STORMWATER DESIGN, BEYOND THE IMPERVIOUS SURFACES DEPICTED ON THESE PLANS. LOT #1 AREA WHICH DOES NOT DRAIN INTO BASIN #3 MAY NOT CONTAIN ADDITIONAL IMPERVIOUS SURFACES.
- THE APPLICANT SHALL BE RESPONSIBLE FOR COMPLETING RECORD DRAWINGS FOR ALL STORMWATER MANAGEMENT FACILITIES INCLUDED IN THE APPROVED PCSM PLAN. SEE PCSM NOTES ON THE PCSM DETAIL SHEET.

12. DRAINAGE PLAN CHECKLIST
PROJECT IS A REGULATED ACTIVITY IN THE SWAMP CREEK WATERSHED
PARENT TRACT AREA: 18.495 AC (GROSS)
TOTAL EXISTING IMPERVIOUS AREA: 0.51 AC (OUTSIDE OF ULT R/WAY)
TOTAL PROPOSED IMPERVIOUS: 3.02 AC (INCL. EX. IMPERV., NEW ROAD W/IN ULT. R/WAY & 0.17 ACRES 'FUTURE' IMPERV.).
13. 90% OF THE DISTURBED AREA FOR THE DEVELOPMENT IS CONTROLLED BY A PCSM BMP (3-BIORETENTION BASINS) & LANDSCAPE RESTORATION (CONVERSION OF LAWN TO MEADOW).

LEGEND

EXISTING STORM SEWER	---
PROPOSED STORM SEWER	---
EXISTING SANITARY SEWER	---
PROPOSED SANITARY SEWER	---
EXISTING WATER LINE	---
PROPOSED WATER LINE	---
EXISTING CONTOUR	---
PROPOSED CONTOUR	---
EXISTING CURB LINE	---
PROPOSED CURB LINE	---
POSITIVE DRAINAGE INDICATOR	---
EXISTING ELEV.	(333.68) OR 333.68
PROPOSED ELEV.	[334.50]
EXISTING TREE LINE	---
PROPOSED TREE LINE	---
EXISTING GAS LINE	---
PROP. GAS LINE	---
EXISTING OVERHEAD ELEC.	---
EXISTING UNDERGROUND ELEC.	---
PROP. ELECTRIC	---
PROP. ROOF DRAIN	---
PROP. WATER LATERAL	---
PROP. SEWER LATERAL	---

SOIL LINE	---
LIMIT OF DISTURBANCE	---
NPDES BOUNDARY	---
INFILTRATION TEST LOCATION	---
BASIN TREE	---
BASIN SHRUB	---
ORNAMENTAL GRASS	---
STREET SHADE TREE	---

ENGINEER'S CERTIFICATION

I, ESTELLE T. EBERHARDT, P.E., (#39817-E), ON THIS DATE DO HEREBY CERTIFY THAT THE DRAINAGE PLAN MEETS ALL DESIGN STANDARDS AND CRITERIA OF THE NEW HANOVER TOWNSHIP STORMWATER MANAGEMENT ORDINANCE.

**ESTELLE T. EBERHARDT, P.E.
STORMWATER BMP ACKNOWLEDGEMENT**

I, _____ AS LANDOWNER, DO HEREBY ACKNOWLEDGE THAT THE STORMWATER BMP'S (BASINS, SWALES, STORM SEWER, RIP-RAP, ETC.) ARE PERMANENT FIXTURES ON THE SITE. ANY REVISION TO THE APPROVED PCSM PLAN MUST BE APPROVED BY THE NEW HANOVER TOWNSHIP AND THE CONSERVATION DISTRICT AND/OR DEP.

SIGNATURE _____

INFILTRATION (DOUBLE RING INFILTROMETER) TEST RESULTS

Test Location	Depth of Test Pit (inches)	Depth to Water (inches)	Depth to Rock (inches)	Depth of Testing (inches)	Infiltration Rate (inches per hour)
1	46	43	---	24	0.37
2	55	---	55"	surface	5.15
3	53	---	53"	surface	3.92
4	59"	---	59"	24	19.04
5	44	44	---	24	0.04
6	60	---	---	24	0.90
7	60	59	---	24	1.08
8	28	---	---	6	1.85

*extremely channery @ 15 inches test pit @ 1 and @ 14 inches in test pit 3 limiting bedrock as noted

SOILS LEGEND

SOIL GROUP	HYDRO SOIL
Bo BOWMANVILLE KNAUERS SILT LOAM	C/D Y
LhB LEHIGH SILT LOAM	---
3-8% SLOPES; MODERATELY ERODED	C/D NO
LhC LEHIGH SILT LOAM	---
8-15% SLOPES; MODERATELY ERODED	C/D NO
UusB URBAN LAND-UDORENTS	---
SHALE AND SANDSTONE COMPLEX	---
0-8% SLOPES; MODERATELY ERODED	---

IF THE OPERATOR WILL BE STORING, USING OR TRANSPORTING HAZARDOUS WASTES AND MATERIALS, FUELS, CHEMICALS, OR SOLVENTS ONTO, ON, OR FROM THE PROJECT SITE DURING CONSTRUCTION, A PREPAREDNESS, PREVENTION AND CONTINGENCY (PPC) PLAN MUST BE PREPARED BY THE OPERATOR AND AVAILABLE AT THE SITE AT ALL TIMES. "GUIDELINES FOR THE DEVELOPMENT AND IMPLEMENTATION OF ENVIRONMENTAL EMERGENCY RESPONSE PLANS" (DOCUMENT #400-2200-001) CAN BE FOUND AT [WWW.DEPWEB.STATE.PA.US](http://www.depweb.state.pa.us) <[HTTP://WWW.DEPWEB.STATE.PA.US](http://www.depweb.state.pa.us)>

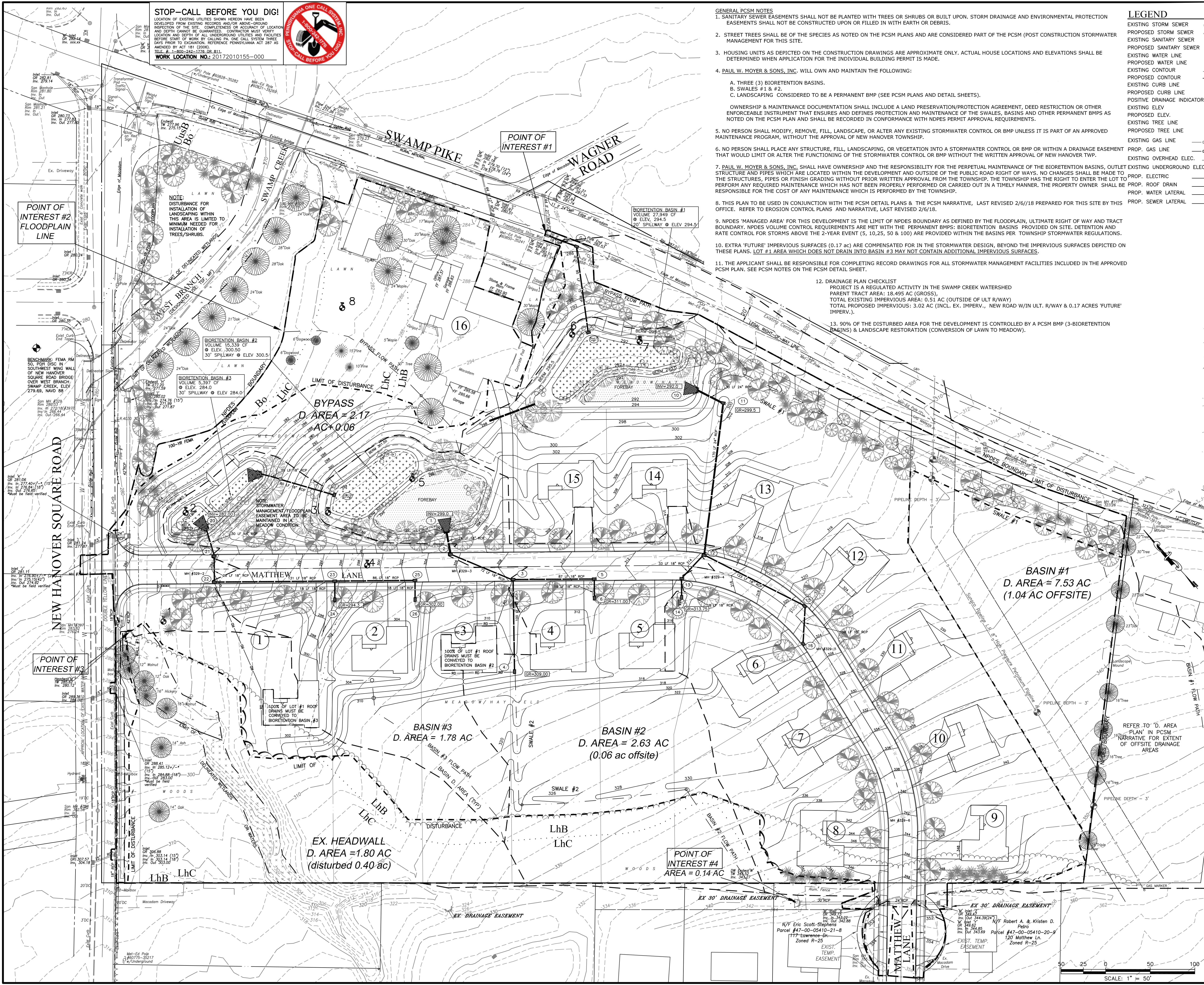
"MOYER TRACT - FARMVIEW ACRES"

REVISION DATE	DESCRIPTION
JANUARY 25, 2018	REVISE PER TWP. ENG. (12/4/17), TWP. PLNR (12/5/17), TRAF. ENG. (12/5/17)
FEBRUARY 6, 2018	REVISE PER MCOCD PRE-APP (2/1/18), NPDES SUB
MAY 4, 2018	TWP. ENG.(3/6/18), TWP. PLNR(3/6/18), TRAF. ENG.(3/7/18), ENTC(3/7/18), MCOCD(3/13/18)

PCSM PLAN
PREPARED FOR
PAUL W. MOYER & SONS
SITUATE
NEW HANOVER TOWNSHIP
MONTGOMERY COUNTY PENNSYLVANIA

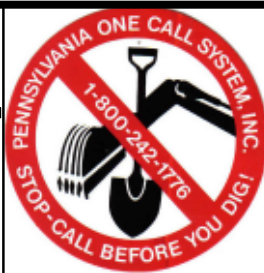
DATE:	OCTOBER 10, 2017
MANAGER:	RFI 17-06
DRAWN BY:	RFI 17-06BASE
SCALE:	1" = 50'
SHEET:	15 OF 19

Trick Eberhardt Mentus
INCORPORATED
Land Use Consultants
Land Planning • Engineering • Landscape Architecture • Land Surveying
Suite Three
2771 Gettysburg Pike
Pittsburg, PA 15237
215-541-4626
215-541-4023(fax)
E-Mail: info@EMTM.com

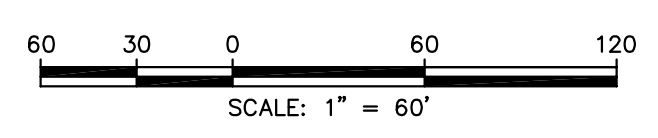
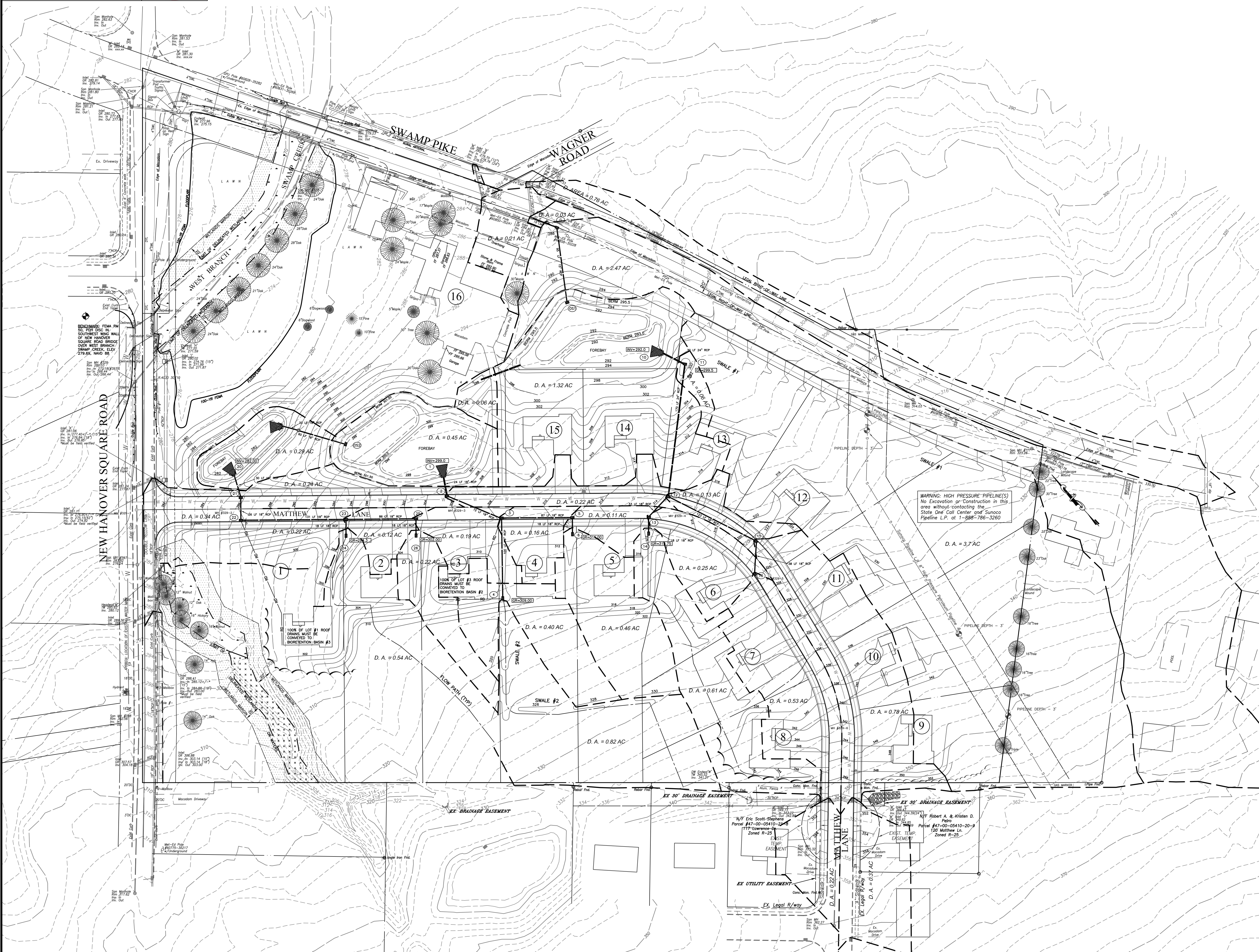


STOP-CALL BEFORE YOU DIG!

LOCATION OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL SYSTEM THREE DAYS PRIOR TO EXCAVATION. REFERENCE PENNSYLVANIA ACT 287 AS AMENDED BY ACT 191 (2006).
 TITLE: 1-800-242-1776 (OR 811)
 WORK LOCATION NO.: 20172010155-000



LEGEND	
EXISTING STORM SEWER	
PROPOSED STORM SEWER	
EXISTING SANITARY SEWER	
PROPOSED SANITARY SEWER	
EXISTING WATER LINE	
PROPOSED WATER LINE	
EXISTING CONTOUR	
PROPOSED CONTOUR	
POSITIVE DRAINAGE INDICATOR	
EXISTING ELEV.	
PROPOSED ELEV.	
PROPOSED CURB LINE	
EXISTING TREE LINE	
PROPOSED TREE LINE	
EXISTING BRUSH LINE	
SOIL LINE	
LIMIT OF DISTURBANCE	
NPDES BOUNDARY	
INFILTRATION TEST LOCATION	



"MOYER TRACT - FARMVIEW ACRES"

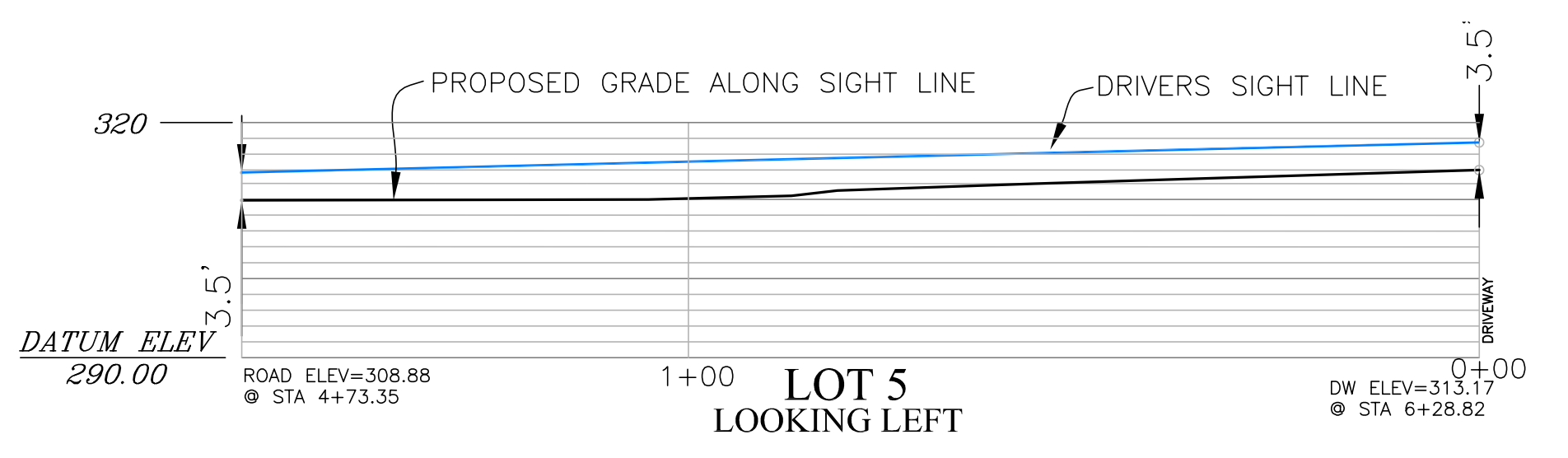
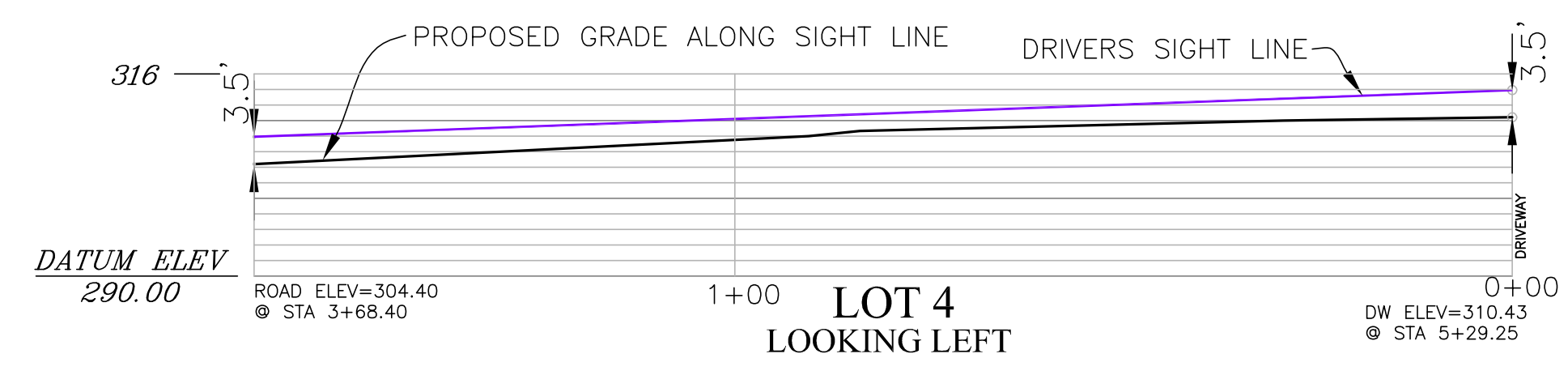
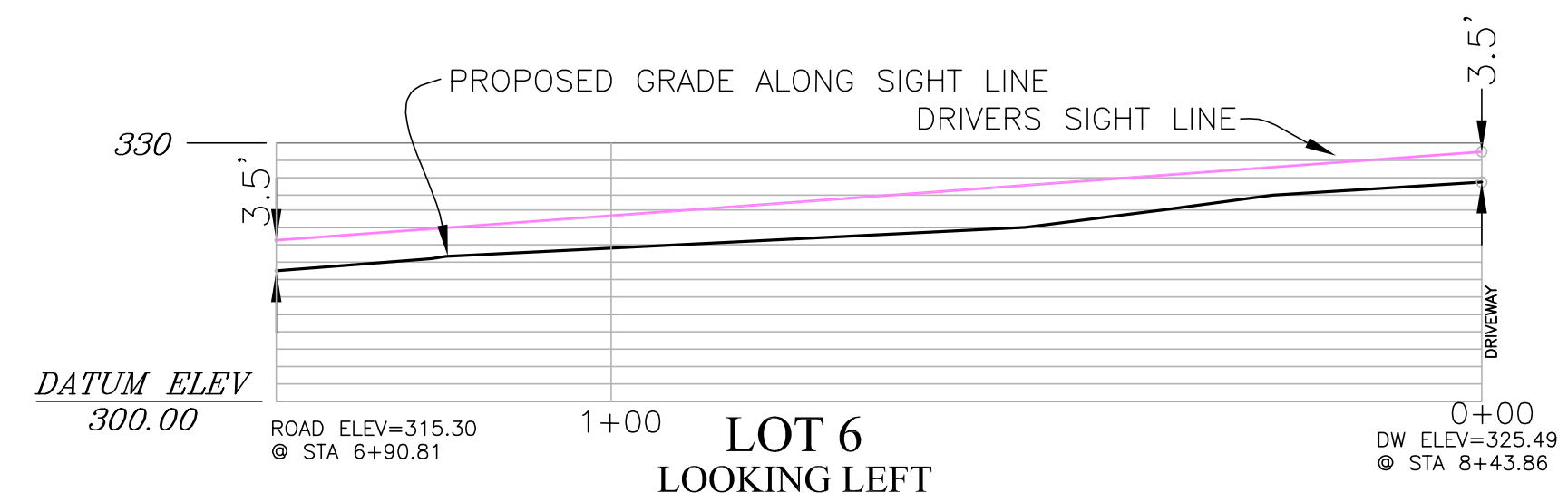
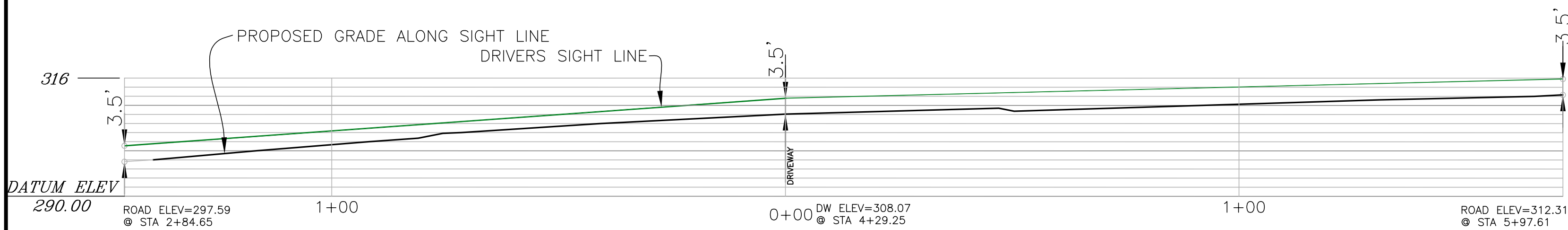
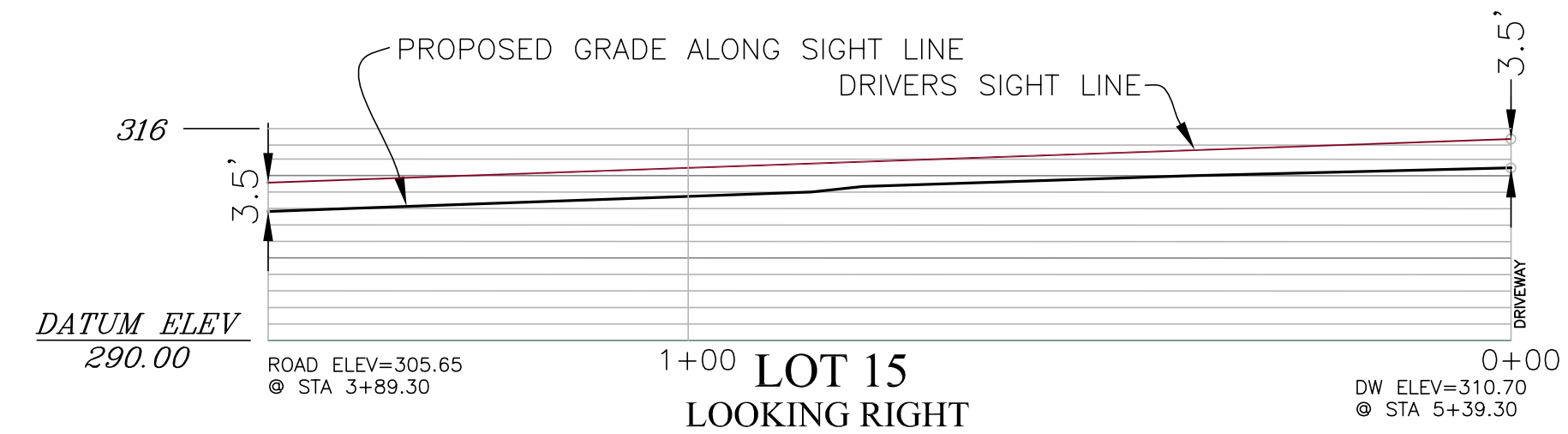
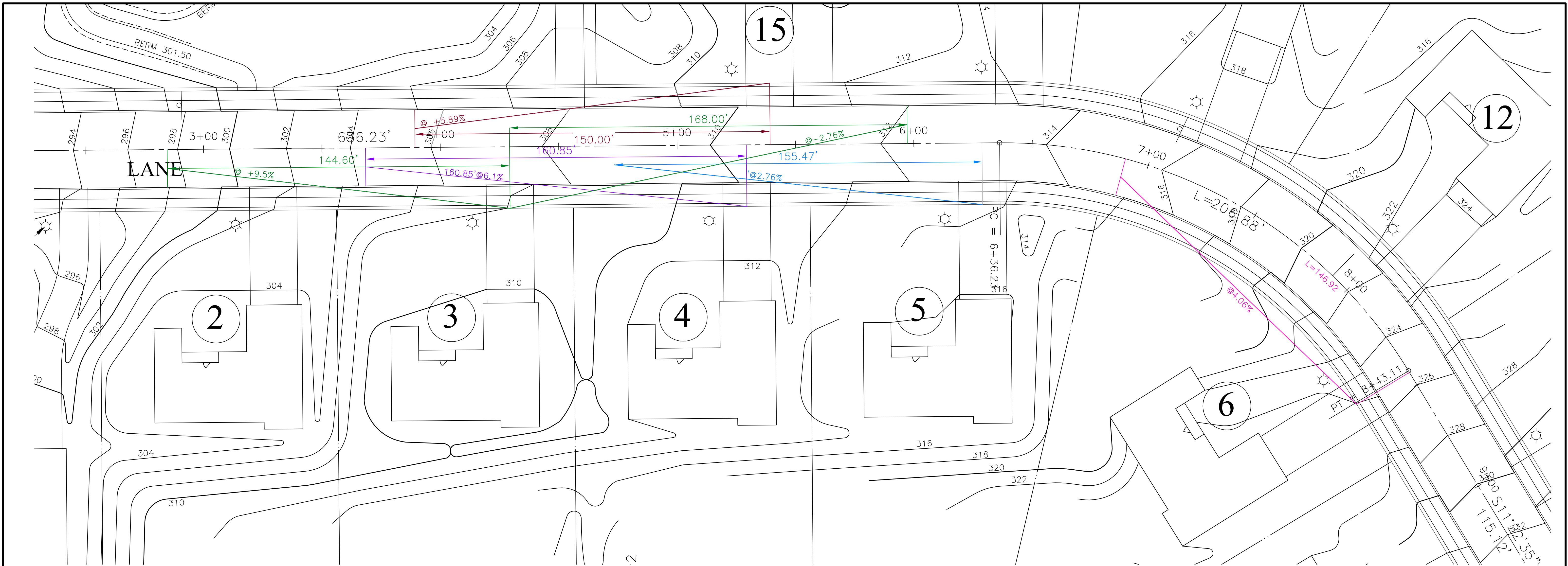
REVISION DATE:	DESCRIPTION:
JANUARY 25, 2018	REVISE PER TWP. ENG. (12/4/17), TWP. PLNR (12/5/17), TRAF. ENG. (12/5/17)
FEBRUARY 6, 2018	REVISE PER MCD PRE-APP (2/1/18), NPDES SUB
MAY 4, 2018	TWP. ENGR(5/6/18), TRFC. ENGR(3/7/18), ALTA(3/6/18), ENTECH(3/7/18), MCD(3/13/18)

D. AREA PLAN
 PREPARED FOR
PAUL W. MOYER & SONS
 SITUATE
 NEW HANOVER TOWNSHIP
 MONTGOMERY COUNTY PENNSYLVANIA

DATE:	FEBRUARY 6, 2018
MANAGER:	RFI 17-06
DRAWN BY:	RFI 17-06BASE
SCALE:	1" = 60'
	18 OF 19

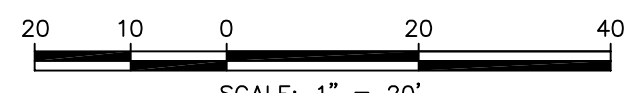
Land Use Consultants
 Planning • Engineering • Landscape Architecture • Land Surveying

Suite Three
 2771 Gettysburg Pike
 Pottsville, PA 17873
 717-541-4626
 215-541-4023(fax)
 E-Mail: info@EANDU.com



LEGEND

- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING WATER LINE
- PROPOSED WATER LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- POSITIVE DRAINAGE INDICATOR
- EXISTING ELEV (333.68) OR 333.68
- PROPOSED ELEV 334.50
- PROPOSED CURB LINE
- EXISTING TREE LINE
- PROPOSED TREE LINE
- EXISTING BRUSH LINE
- POST LAMP (TYP.)



"MOYER TRACT - FARMVIEW ACRES"

REVISION DATE:	DESCRIPTION:
JANUARY 25, 2018	TWP ENGR(S/6/18);TRFC ENGR(S/7/18);ALTA(S/6/18);ENTECH(S/7/18);MCCD(S/13/18)
APRIL 20, 2018	TWP ENGR(S/6/18);TRFC ENGR(S/7/18);ALTA(S/6/18);ENTECH(S/7/18);MCCD(S/13/18)

DATE: OCTOBER 10, 2017
 MANAGER: RFI
 DRAWN BY: RFI
 SCALE: 1" = 20'

DESCRIPTION:
 CLEAR SIGHT PLAN
 PREPARED FOR
PAUL W. MOYER & SONS
 SITUATE
 NEW HANOVER TOWNSHIP
 MONTGOMERY COUNTY PENNSYLVANIA

Land Use Consultants
 Land Planning • Engineering • Landscape Architecture • Land Surveying

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 215-541-4626
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JOB NUMB.: 17-06
 FILE NAME: 17-06BASE
 SHEET: 19 OF 19