

PRELIMINARY / FINAL LAND DEVELOPMENT & LOT LINE CHANGE PLAN

120 & 124 BLOOMINGDALE AVENUE

RADNOR TOWNSHIP, DELAWARE COUNTY, PENNSYLVANIA

GENERAL NOTES:

- PROPOSED USE: (6) SIX RESIDENTIAL DWELLING UNITS (5 NEW, 1 EXISTING). EXISTING UNIT IS CURRENTLY A COMMERCIAL USE, WHICH IS AN EXISTING NON-CONFORMING USE
- ZONING: R-5, RESIDENTIAL
- UPI'S: 36-6-327.8, BLOCK 12, UNIT 350 (26,9123 S.F., 0.618 ACRES) 36-6-327.9, BLOCK 12, UNIT 351 (30,523 S.F., 0.700 ACRES)
- BEING: 120 & 124 BLOOMINGDALE AVE., WAYNE, PA 19087 EXISTING BOUNDARY & TOPO INFORMATION TAKEN FROM EXISTING DEEDS AND ACTUAL

- ACCORDING TO THE FLOOD INSURANCE RATE MAP FOR DELAWARE COUNTY
- ACCORDING TO THE THE PENNSYLVANIA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES. THE GEOLOGY OF THE SITE IS CHARACTERIZED AS PRECAMBRIAN (MGP). THIS
- THE SITE IS TRIBUTARY TO DARBY CREEK, WHICH IS DESIGNATED AS COLD WATER FISHES
- ACCORDING TO THE NATIONAL WETLAND INVENTORY MAP, THERE ARE NO WETLANDS
- SIZES ARE BASED ON FIELD SURVEY OF ABOVE-GROUND, VISIBLE STRUCTURES, AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, DEPTH, SIZE AND TYPE BY THE PROPER
- COMMON DRIVE, STORMWATER MANAGEMENT SYSTEM, AND OPEN SPACE SHALL BE
- PUBLICATION 213, LATEST EDITION. IF A LANE CLOSURE OR PARTIAL LANE CLOSURE IS NECESSARY FOR CONSTRUCTION, THE APPLICANT SHALL NOTIFY THE TOWNSHIP (3) THREE
- RIGHT-OF-WAY. A 60 FOOT RIGHT-OF-WAY ALONG BLOOMINGDALE AVENUE IS PROVIDED
- GRADING PLANS AND EROSION & SEDIMENTATION CONTROL PLANS SHALL BE SUBMITTED AND APPROVED PRIOR TO ISSUING ANY BUILDING PERMITS.
- 15. TWO (2) PARKING SPACES ARE PROVIDED FOR EACH PROPOSED DWELLING WITHIN THE
- 16. THE ROOMS IN THE PROPOSED NEW UNITS WILL MEET OR EXCEED THE SIZE
- REQUIREMENTS INDICATED IN ZONING CODE SECTION §280-35.B(6). '. GARAGE PARKING SPACES SHALL MEASURE NO LESS THAN 9.5' X 20' AND BE SURFACED WITH A TOWNSHIP APPROVED DURABLE, DUST PROOF ALL WEATHER SURFACE.
- 18. WHERE SIDEWALK GRADES EXCEED 5%, A NON-SLIP SURFACE SHALL BE USED AS REQUIRED BY RADNOR TOWNSHIP.

WAIVER NOTE:

- THE APPLICANT ASSERTS THAT CODE 255-29.A.12 IS NOT APPLICABLE TO THE PROPOSED DRIVEWAY ENTRANCE/EXIT TO BLOOMINGDALE AVENUE, AND THAT CODE 255-40.E GOVERNING DRIVEWAYS FOR MULTI-FAMILY AND ATTACHED DWELLINGS CONTROLS. ALTERNATIVELY, AND TO THE EXTENT REQUIRED APPLICANT REQUESTED A MODIFICATION OF THE 25 FEET MINIMUM WIDTH REQUIREMENT OF CODE
- SECTION 255-14.A THE APPLICANT REQUESTS A WAIVER FROM SECTION 255-14.A REQUIRING SUBMISSION OF A PRELIMINARY PLAN BEFORE A FINAL PLAN IS SUBMITTED. DUE TO THE LIMITED SCOPE OF THE APPLICATION A PRELIMINARY / FINAL PLAN SUBMISSION IS PROPOSED.

ZONING VARIANCE NOTE:

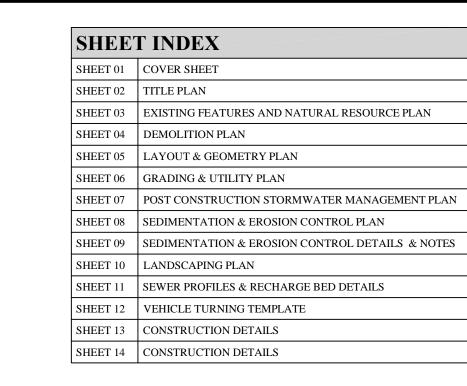
APPLICANT REQUESTS, TO THE EXTENT REQUIRED, VARIANCES FROM CODE §§ 280-112.D & E FOR DISTURBANCE TO AND IMPROVEMENTS WITHIN STEEP SLOPES AND § 280-35.B(3)(C) TO PERMIT A REAR YARD OF EIGHTEEN (18) FEET +/-) WHERE THIRTY (30) FEET IS REQUIRED, AND ANY OTHER RELIEF NECESSARY FOR THE REDEVELOPMENT PROJECT. ALTERNATIVELY, APPLICANT REOUESTS INTERPRETATIONS OF CODE && 280-112.D & E THAT: (I) DISTURBANCE TO MANMADE STEEP SLOPES IS NOT PROHIBITED BY CODE; AND/OR (II) THAT A PROPOSED RETAINING WALL, PORTIONS OF THE PROPOSED DRIVEWAY, STORMWATER FACILITIES, AND RELATED GRADING AND IMPROVEMENTS ARE PERMITTED UNDER CODE §§ 280-112.D(8) AND 280-112.E AS BEING ASSOCIATED WITH PERMITTED ACTIVITIES ON STEEP SLOPES.

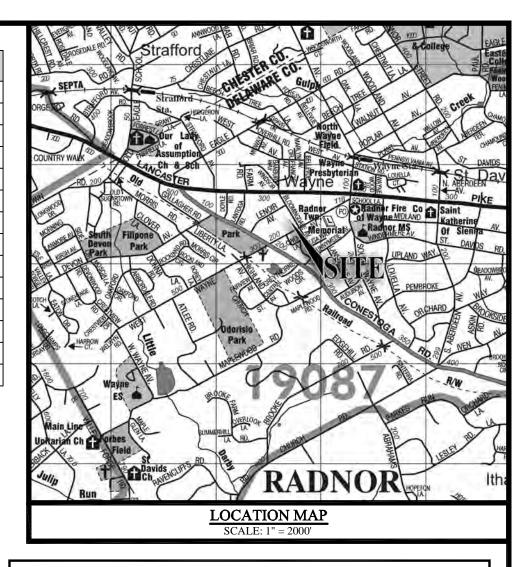
R-5 RESIDENTIAL:

AREA AND BULK REGULATIONS (MULTIPLE DWELLINGS) **TOTAL LOT AREA = 57,433 S.F. (1.318 ACRES)**

DESCRIPTION	R-5 REQUIRED	PROPOSED
MIN. LOT AREA	LOT AREA PER DWELLING UNIT: 5,445 S.F.	9,572 S.F. PER UNIT
MAX. DENSITY	1 UNIT/5,445 S.F. (10 PERMITTED)	6 UNITS
MIN. LOT WIDTH @ BUILDING LINE	100 FT.	249.7 FT.
BUILDING AREA (MAX.)	30% MAX.	16.9% (9,731 S.F.)
MIN. FRONT YARD	50 FT.	50 FT.
MIN. SIDE YARD	30 FT.	6.4 FT. *
MIN. REAR YARD	30 FT.	30 FT. **
MAX. IMPERVIOUS COVERAGE	36% MAX.	35.95% (20,646.8 S.F.)
MAX. BUILDING HEIGHT	40 FT. MAX.	< 40 FT.
MAX. BUILDING SIZE	160 FT. LENGTH OR DEPTH	120 FT.
RIPARIAN BUFFER SETBACK	35 FT.	N/A
MINIMUM ROOM SIZES:		
FIRST BEDROOM	160 S.F.	> 160 S.F.
ALL OTHER BEDROOMS	120 S.F.	> 120 S.F.
LIVING ROOM	240 S.F.	> 240 S.F.
DINING ROOM	160 S.F.	> 160 S.F.
DINETTE	120 S.F.	> 120 S.F.
KITCHEN	80 S.F.	> 80 S.F.
ВАТН	40 S.F.	> 40 S.F.
* EXISTING NON-CONFORMITY		



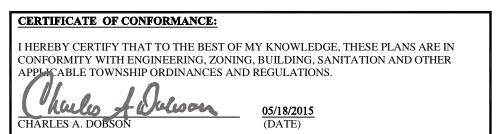


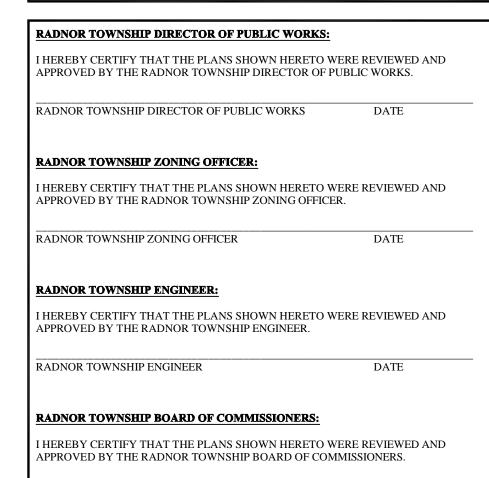


:	SS:
COUNTY OF CHESTER:	
ON THE DAY OF A NOTARY PUBLIC OF THE COMMONWEAD WHO ACKNOWLEDGES HIMSELF TO BE TH STRAFFORD AVENUE, LLC A LIMITED LIAI SUCH BEING AUTHORIZED TO DO SO, HE E FOR THE PURPOSES THEREIN CONTAINED CORPORATION BY HIMSELF.	LTH OF PENNSYLVANIA, RESIDING IN _ PERSONALLY APPEARED BO ERIXXON IE MANAGING MEMBER OF 115 BILITY CORPORATION, AND THAT AS IXECUTED THE FOREGOING INSTRUMENT
MANAGING MEMBER	
WITNESS MY HAND AND NOTARIAL SEAL,	, THE DAY AND YEAR AFORESAID.
NOTARY PUBLIC	

PROCESSED AND REVIEWED. A REPORT HAS BEEN PREPARED BY THE DELAWARE COUNTY PLANNING COMMISSION IN ACCORDANCE WITH THE MUNICIPALITIES PLANNING CODE.
CERTIFIED THIS DATE .
FOR THE DIRECTOR
RECORDED IN THE DELAWARE COUNTY COURTHOUSE THISDAY OF, 2015, IN PLAN BOOK, PAGE

DELAWARE COUNTY PLANNING COMMISSION





ATTN: BO ERIXXON SUITE 100 MALVERN, PA 19355

10/3/2014

1" = 100'

APPLICANT:

EQUITABLE OWNER

110 NORTH PHOENIXVILLE PIKE

115 STRAFFORD AVENUE, LLC

BLOOMINGDALE AVE., LLC 120 & 124 BLOOMINGDALE AVE. **WAYNE, PA 19087**

PRESIDENT

ECRETARY

COVER SHEET

RADNOR TOWNSHIP • DELAWARE COUNTY • PENNSYLVANIA

S H E E T **OF 14**

UPI: 36-6-327.8 & 36-6-327.9

ther proprietary rights in these plans. All drawings, specifications and pies thereof are and shall remain the property of InLand Design, LLC. ney are to be used only in respect to this project and are neither to be sed on any other project, nor are they to be assigned to any third party ithout first obtaining the expressed written permission and consent of onsent or adaptation by InLand Design, LLC for the specific purpose ntended, will be at the third party's sole risk and without liability or legal and hold harmless InLand Design, LLC from all claims, damages, losses, and expenses arising thereto or resulting therefrom.

** SEE VARIANCE NOTE FOR ACCESSORY USE (DECK) IN REAR SETBACK



PA. act 172 of 1986 requires three working days notice Serial Numbers: 20142730827

PENNSYLVANIA ACT 187 REQUIREMENTS: InLand Design, LLC does not guarantee the accuracy of t locations for existing subsurface utility structures shown on the plans, nor does InLand Design, LLC guarantee that all subsurface structures are shown. The contractor shall verify the location and elevation of all underground utilities and structure

West Chester, PA 19382

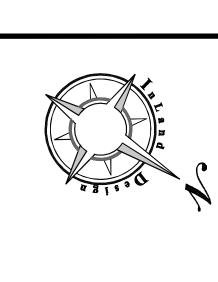
www.InLandDesign.net



ONVEALY	1	01-30-2015	PER TOWNSHIP ENGINEER REVIEW LETTER DATED TO-
REGISTERED	2	04-01-2015	PER TOWNSHIP ENGINEER REVIEW LETTER DATED 02-
OFFISIONAL A	3	05-19-2015	PER TOWNSHIP ENGINEER REVIEW LETTER DATED 05-
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LES A. DOBSON			
ENGINEER / // // // // // // // // // // // //			
I P			
WSYLVAN			

PRELIMINARY / FINAL

DATE



GENERAL NOTES:

- PROPOSED USE: (6) SIX RESIDENTIAL DWELLING UNITS (5 NEW, 1 EXISTING). EXISTING UNIT IS CURRENTLY A COMMERCIAL USE, WHICH IS AN EXISTING NON-CONFORMING USE. SITE INFORMATION:
- ZONING: R-5, RESIDENTIAL UPI'S: 36-6-327.8, BLOCK 12, UNIT 350 (26,9123 S.F., 0.618 ACRES)
- 36-6-327.9, BLOCK 12, UNIT 351 (30,523 S.F., 0.700 ACRES) BEING: 120 & 124 BLOOMINGDALE AVE., WAYNE, PA 19087
- EXISTING BOUNDARY & TOPO INFORMATION TAKEN FROM EXISTING DEEDS AND ACTUAL FIELD SURVEY PERFORMED SEPTEMBER, 2014 BY INLAND DESIGN, LLC, EXTON, PA.
- BLOCK 36-12, UNIT 350 AND BLOCK 36-12, UNIT 351 SHALL BE CONSOLIDATED INTO A
- SINGLE LOT FOR THE LAND DEVELOPMENT PLAN. PROPERTY TO BE SERVED BY PUBLIC WATER AND SEWER.
- 6. ACCORDING TO THE FLOOD INSURANCE RATE MAP FOR DELAWARE COUNTY, PENNSYLVANIA, MAP NUMBER 42045C0017F, THERE IS NO 100-YEAR FLOOD PLAIN LOCATED
- ACCORDING TO THE THE PENNSYLVANIA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES, THE GEOLOGY OF THE SITE IS CHARACTERIZED AS PRECAMBRIAN (MGP), THIS PYROXENE-BEARING MAFIC GNEISS IS A DARK-COLORED, MEDIUM- TO FINE-GRAINED METAMORPHIC ROCK.
- 8. THE SITE IS TRIBUTARY TO DARBY CREEK, WHICH IS DESIGNATED AS COLD WATER FISHES (CWF) & MIGRATORY FISHES (MF) BY CHAPTER 93.
- 9. ACCORDING TO THE NATIONAL WETLAND INVENTORY MAP, THERE ARE NO WETLANDS LOCATED WITHIN THE AREA OF THE SITE.
- 10. LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. ALL LOCATIONS AND SIZES ARE BASED ON FIELD SURVEY OF ABOVE-GROUND, VISIBLE STRUCTURES, AND PLOTTING OF UTILITY INFORMATION CONTAINED IN PLANS AVAILABLE AT THE TIME OF SURVEY, AS LISTED IN THE UTILITY REFERENCE PLANS. AVAILABLE AS-BUILT PLANS AND UTILITY MARK-OUTS DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, DEPTH, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES.
- 11. COMMON DRIVE, STORMWATER MANAGEMENT SYSTEM, AND OPEN SPACE SHALL BE MAINTAINED BY THE HOME OWNERS ASSOCIATION.
- 12. MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH PENNDOT PUBLICATION 213, LATEST EDITION. IF A LANE CLOSURE OR PARTIAL LANE CLOSURE IS NECESSARY FOR CONSTRUCTION, THE APPLICANT SHALL NOTIFY THE TOWNSHIP (3) THREE DAYS IN ADVANCE PRIOR TO THE LANE CLOSURE.
- 13. BLOOMINGDALE AVENUE IS CLASSIFIED AS A LOCAL STREET WHICH REQUIRES A 60 FOOT RIGHT-OF-WAY. A 60 FOOT RIGHT-OF-WAY ALONG BLOOMINGDALE AVENUE IS PROVIDED. 14. GRADING PLANS AND EROSION & SEDIMENTATION CONTROL PLANS SHALL BE SUBMITTED
- AND APPROVED PRIOR TO ISSUING ANY BUILDING PERMITS. 15. TWO (2) PARKING SPACES ARE PROVIDED FOR EACH PROPOSED DWELLING WITHIN THE
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ВАТН	40 S.F.	> 40 S.F.					
* EXISTING NON-CONFORMITY ** SEE VARIANCE NOTE FOR ACCESSO	* EXISTING NON-CONFORMITY ** SEE VARIANCE NOTE FOR ACCESSORY USE (DECK) IN REAR SETBACK						

60' R/W

EXISTING SINGLE FAMILY RESIDENTIAL USE EXISTING TWIN PATRICIA J. HENRY BLOCK: 12, UNIT: 328 DBK: 0338, PG: 0678 RESIDENTIAL USE DBK: 4654, PG: 1150 FOLIO #: 36-06-03997-00 FOLIO #: 36-06-03714-00 210 LENOIR AVE. 207 W. WAYNE AVE. N32°13'45"W 249.72' 171.00' *78.72* ' EXISTING TWIN RESIDENTIAL USE N/L JOSEPH P. RYAN & MARY CHRISTINE BARRETT FOLIO #: 36-06-03997-02 EXISTING TWIN **BLOCK: 36-12 UNIT: 351** RESIDENTIAL USE EXISTING 124 BLOOMINGDALE AVE. SUZANNE M. SEMAN & APARTMENT USE **30,523** S.F. (0.701 ACRES) N/L
GARY E. & CHRISTINE F. MCCLAIN
BLOCK: 12, UNIT: 327
DBK: 0280, PG: 2110
FOLIO #: 36-06-03277-00
114 BLOOMINGDALE AVE. FOLIO #: 36-06-03997-01 203 W. WAYNE AVE. N 32-13-45 W **EXISTING** APARTMENT USE _ SANITARY _ SFWFR EASEMENT LYDIA SYKES GEMMER & BARON GUYE GEMMER 232.12,42,E FOLIO #: 36-06-03280-00 128 BLOOMINGDALE AVE. BLOCK: 36-12 UNIT: 350 120 BLOOMINGDALE AVE. 26,913 S.F. (0.618 ACRES)

162.00 .746.72 232.13,42,E

BLOOMINGDALE AVENUE

N/L EILEEN W. WARE, DIANE M. CLASSEN & NINA W. WARE, TRUSTEES UNDER WILL OF GABRIELLA AND BOWES ASSOCIATES, LLC BLOCK: 12, UNIT: 355 DBK: 2113, PG: 0322 BLOCK: 12, UNIT: 356 FOLIO #: 36-06-03996-00 141 WAYNE AVE. DBK: 1464, PG: 2250 FOLIO #: 36-06-03291-00 125 BLOOMINGDALE AVE.

R-B WAYNE BLOCK: 12, UNIT: 357 DBK: 1785, PG: 2187 FOLIO #: 36-06-03290-00

R-B WAYNE BLOCK: 12, UNIT: 358 DBK: 0236, PG: 1043 FOLIO #: 36-06-03289-00 115 BLOOMINGDALE AVE.

PROPERTY BOUNDARY

— — ADJOINING PROPERTY LINE EXISTING RIGHT OF WAY LINE

PROPOSED EASEMENT LINE

----- EXISTING EASEMENT LINE

PRESIDENT

EQUITABLE OWNER APPLICANT: 115 STRAFFORD AVENUE, LLC ATTN: BO ERIXXON

110 NORTH PHOENIXVILLE PIKE

LOCATION MAP COMMONWEALTH OF PENNSYLVANIA COUNTY OF CHESTER: ON THE DAY OF A.D. 2015 BEFORE ME, THE SUBSCRIBER, A NOTARY PUBLIC OF THE COMMONWEALTH OF PENNSYLVANIA, RESIDING IN

WHO ACKNOWLEDGES HIMSELF TO BE THE MANAGING MEMBER OF 115 STRAFFORD AVENUE, LLC A LIMITED LIABILITY CORPORATION , AND THAT AS SUCH BEING AUTHORIZED TO DO SO, HE EXECUTED THE FOREGOING INSTRUMENT FOR THE PURPOSES THEREIN CONTAINED BY SIGNING THE NAME OF THE CORPORATION BY HIMSELF.

MANAGING MEMBER

WITNESS MY HAND AND NOTARIAL SEAL, THE DAY AND YEAR AFORESAID.

NOTARY PUBLIC

DELAWARE COUNTY PLANNING COMMISSION PROCESSED AND REVIEWED. A REPORT HAS BEEN PREPARED BY THE DELAWARE COUNTY PLANNING COMMISSION IN ACCORDANCE WITH THE MUNICIPALITIES PLANNING CODE. CERTIFIED THIS DATE

RECORDED IN THE DELAWARE COUNTY COURTHOUSE THIS _____ , 2015, IN PLAN BOOK _

CERTIFICATE OF CONFORMANCE: HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, THESE PLANS ARE IN ONFORMITY WITH ENGINEERING, ZONING, BUILDING, SANITATION AND OTHER

HEREBY CERTIFY THAT THE PLANS SHOWN HERETO WERE REVIEWED AND APPROVED BY THE RADNOR TOWNSHIP DIRECTOR OF PUBLIC WORKS. RADNOR TOWNSHIP DIRECTOR OF PUBLIC WORKS

HEREBY CERTIFY THAT THE PLANS SHOWN HERETO WERE REVIEWED AND

APPROVED BY THE RADNOR TOWNSHIP ZONING OFFICER. RADNOR TOWNSHIP ZONING OFFICER DATE

HEREBY CERTIFY THAT THE PLANS SHOWN HERETO WERE REVIEWED AND APPROVED BY THE RADNOR TOWNSHIP ENGINEER.

RADNOR TOWNSHIP ENGINEER DATE

HEREBY CERTIFY THAT THE PLANS SHOWN HERETO WERE REVIEWED AND APPROVED BY THE RADNOR TOWNSHIP BOARD OF COMMISSIONERS.

DATE

ECRETARY

and hold harmless InLand Design, LLC from all claims, damages, losses, and expenses arising thereto or resulting therefrom.

UPI: 36-6-327.8 & 36-6-327.9

ther proprietary rights in these plans. All drawings, specifications and pies thereof are and shall remain the property of InLand Design, LLC. sed on any other project, nor are they to be assigned to any third party ithout first obtaining the expressed written permission and consent o onsent or adaptation by InLand Design, LLC for the specific purpose ntended, will be at the third party's sole risk and without liability or legal

Pennsylvania One Call System

PA. act 172 of 1986 requires three working days notice Serial Numbers: 20142730827 PENNSYLVANIA ACT 187 REQUIREMENTS: InLand Design, LLC does not guarantee the accuracy of the locations for existing subsurface utility structures shown on the plans, nor does InLand Design, LLC guarantee that all

subsurface structures are shown. The contractor shall verify the

location and elevation of all underground utilities and structures



West Chester, PA 19382

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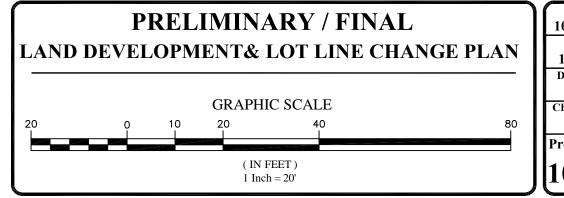
Fax: (484) 947-2946

Info@InLandDesign.net



ı	1	01-30-2015	PER TOWNSHIP ENGINEER REVIEW LETTER DATED 10-24-2014
4	2	04-01-2015	PER TOWNSHIP ENGINEER REVIEW LETTER DATED 02-23-2015
'	3	05-19-2015	PER TOWNSHIP ENGINEER REVIEW LETTER DATED 05-07-2015
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1			

No. Date: Description



10/3/2014 1" = 20' TAH

SUITE 100

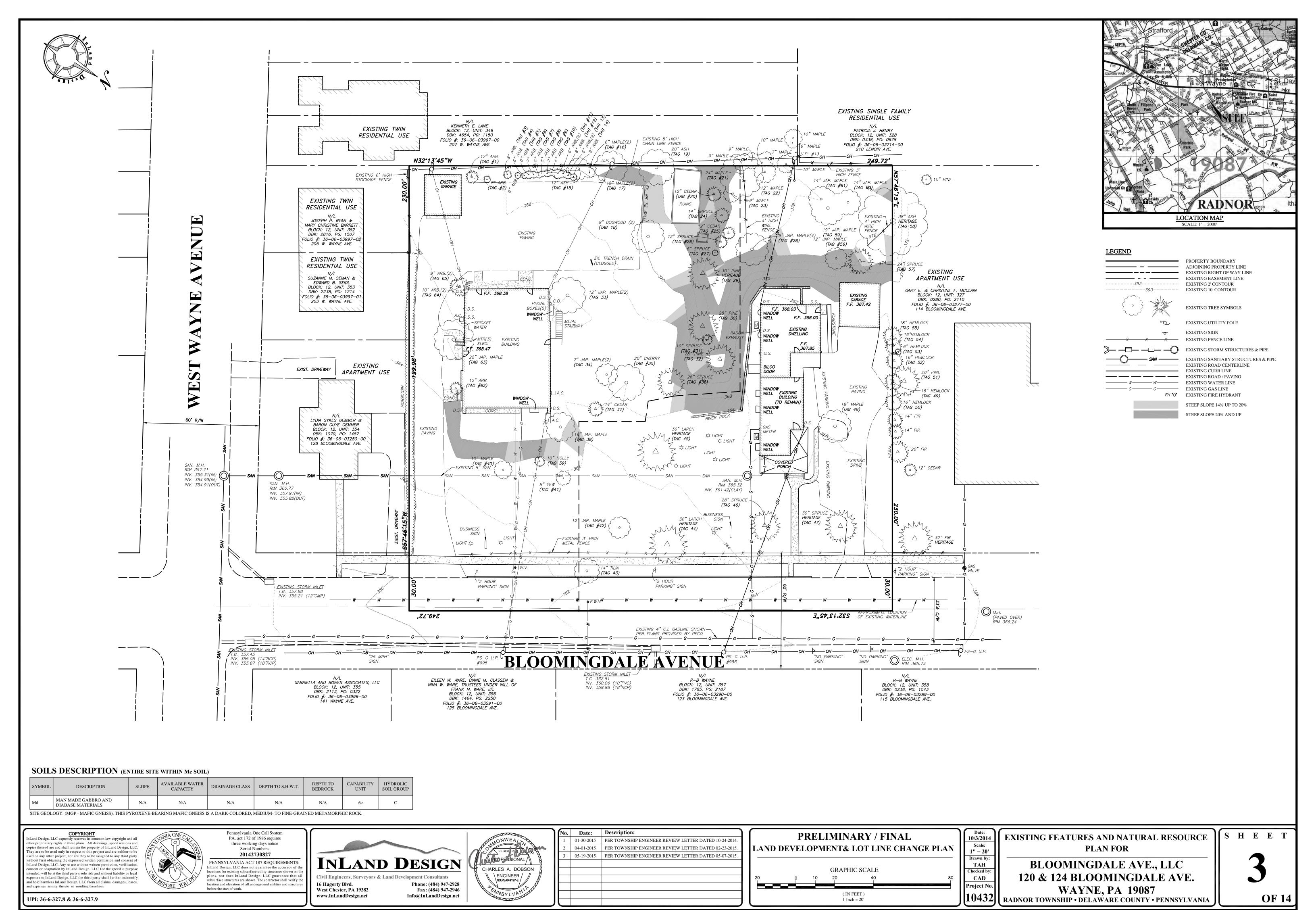
MALVERN, PA 19355

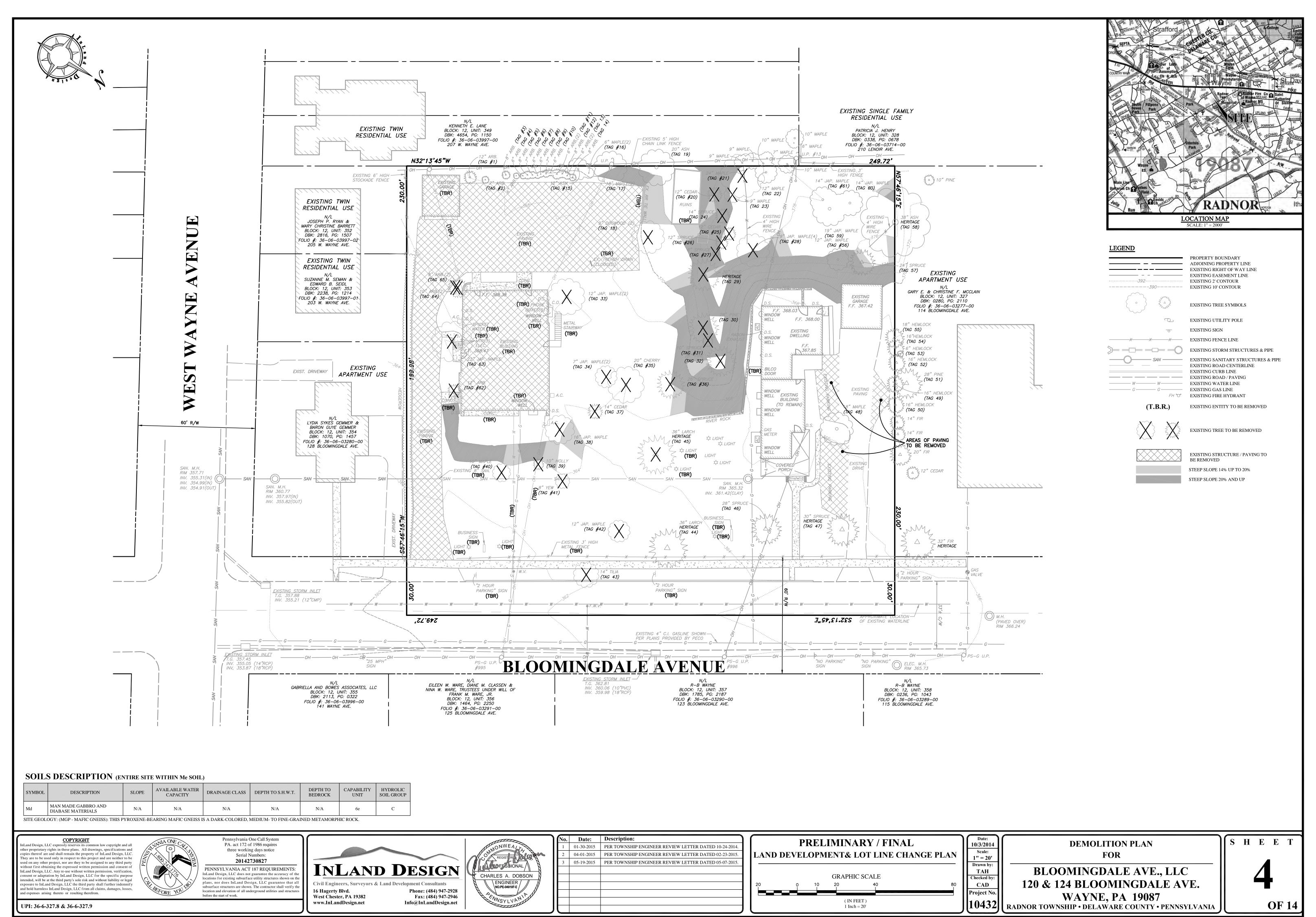
TITLE PLAN

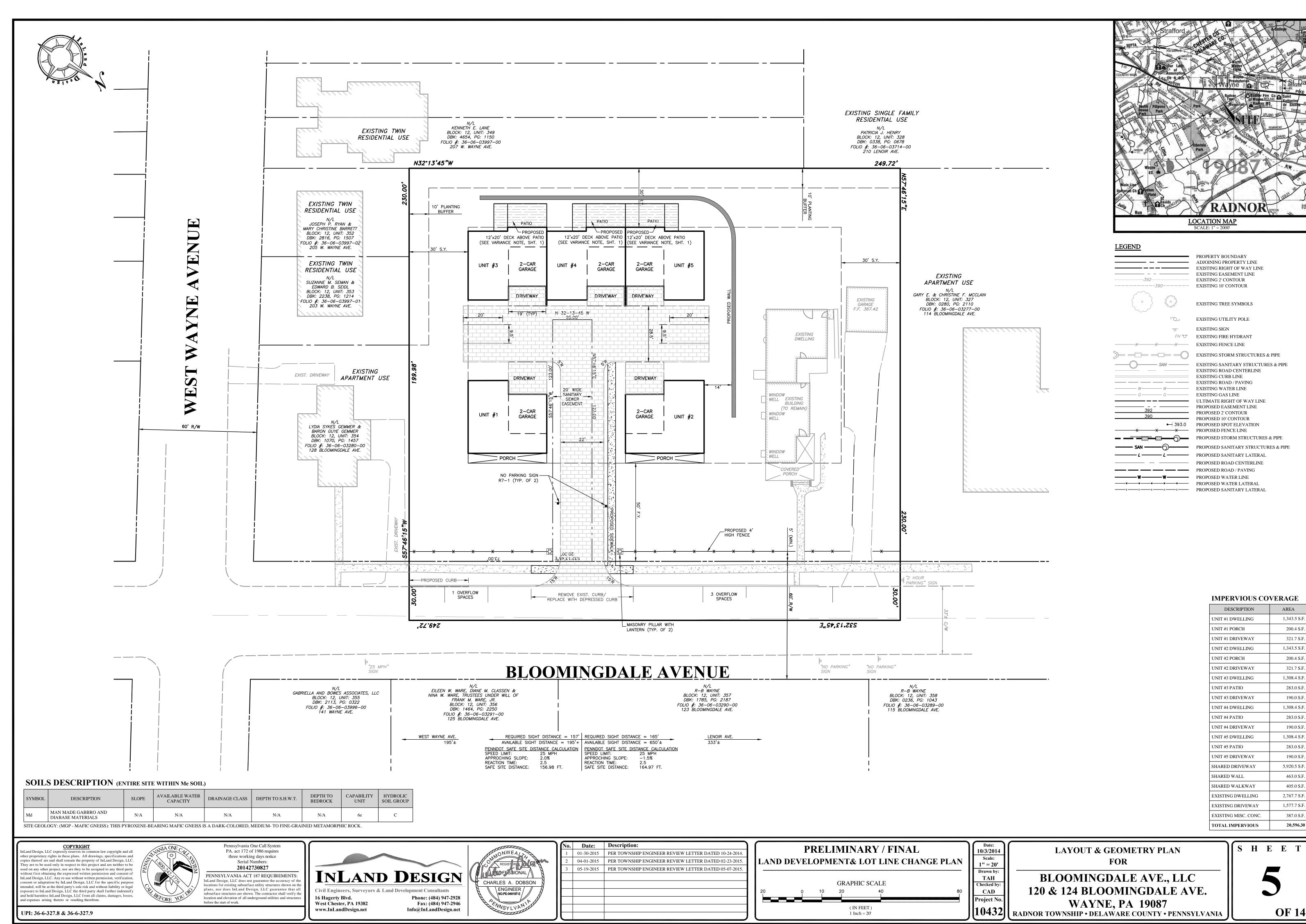
BLOOMINGDALE AVE., LLC 120 & 124 BLOOMINGDALE AVE. **WAYNE, PA 19087** RADNOR TOWNSHIP • DELAWARE COUNTY • PENNSYLVANIA **OF 14**

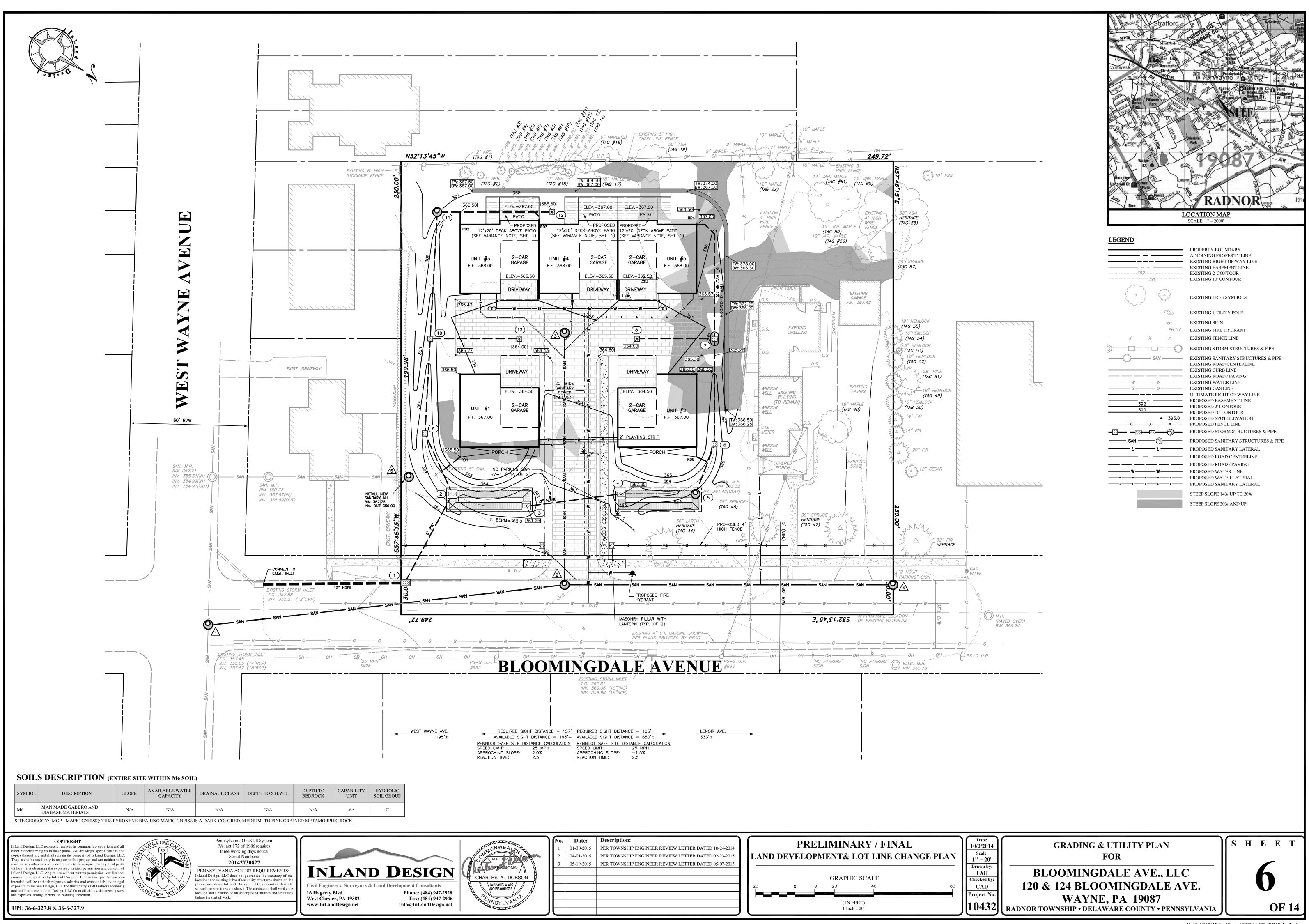
S H E E T

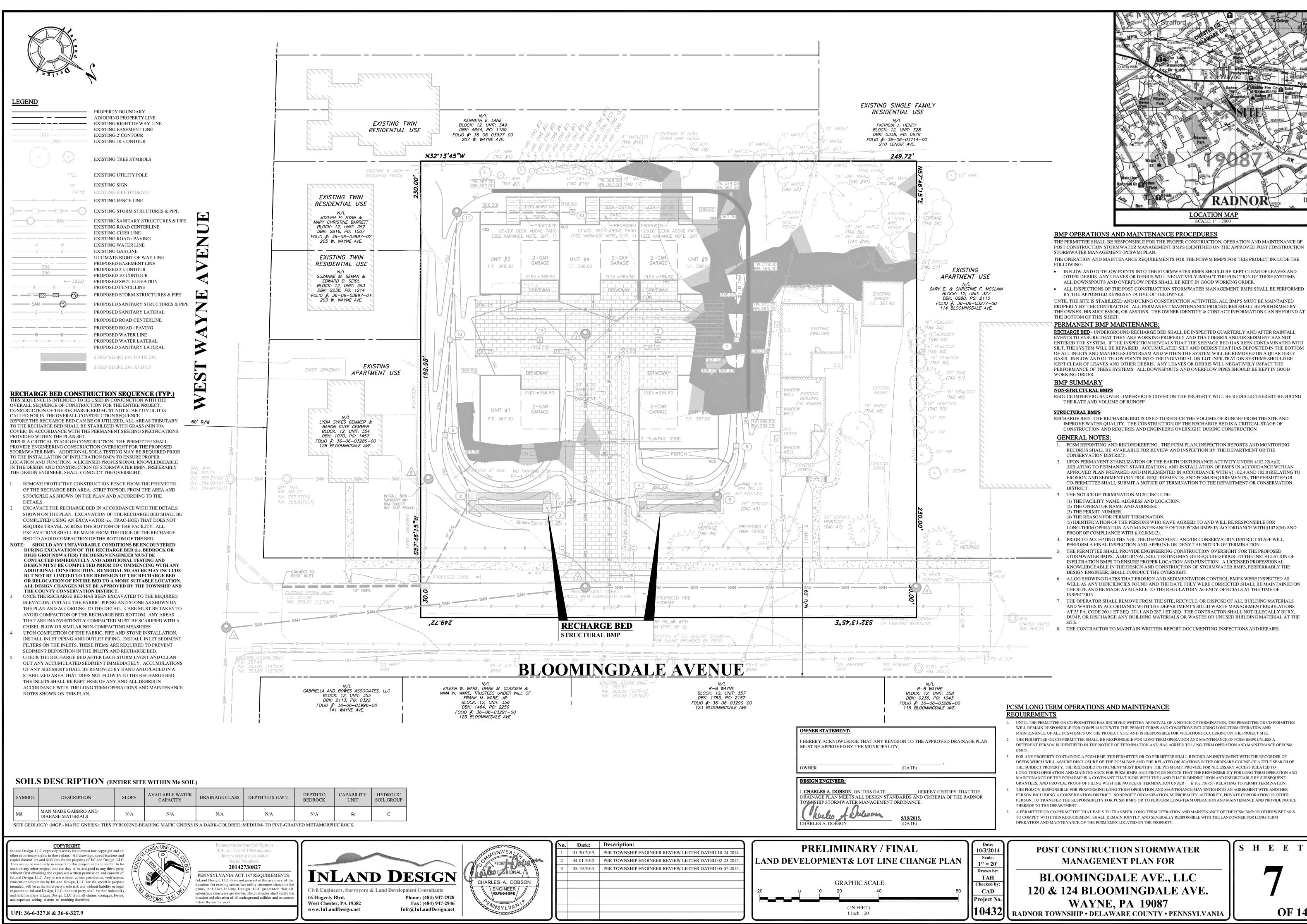
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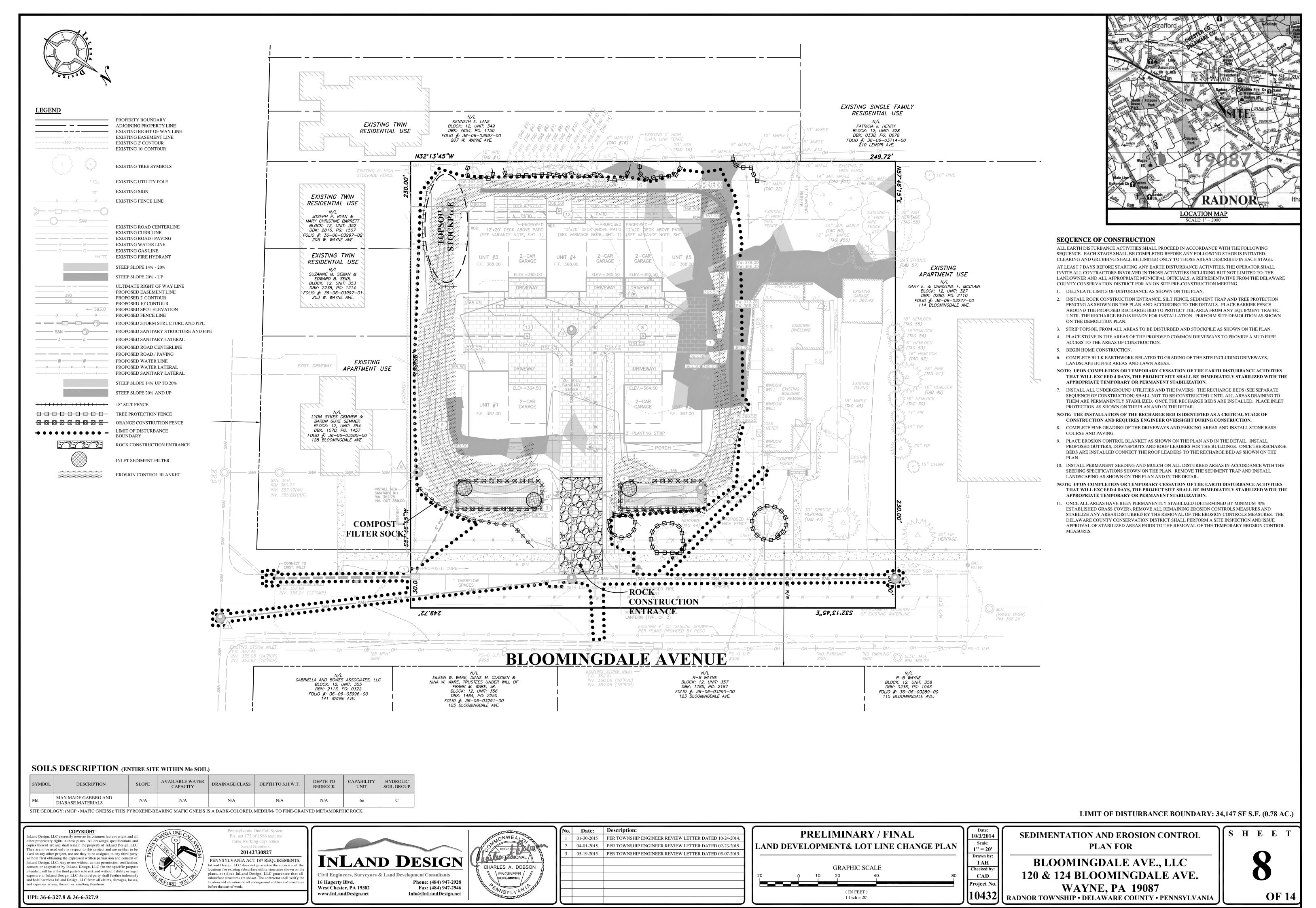












STANDARD E&S PLAN NOTES

- 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
- 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

LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING

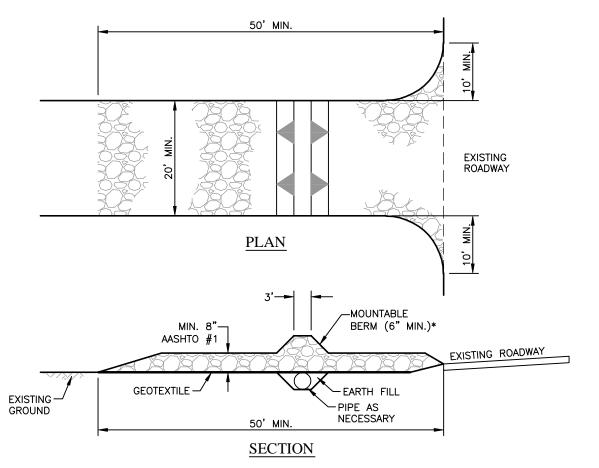
- CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION,
- ROOTS AND OTHER OBJECTIONABLE MATERIAL. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH 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
- TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAPS(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 2H:1V OR
- 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 ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEO. 271.1, AND 287.1 ET. SEO. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNET
- 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. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
- 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 LOTS (SPECIFY LOT NUMBERS)
- ONTO (SPECIFY ROAD NAMES) 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, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL
- 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

TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED

- SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT 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 -- 6 TO 12 INCHES ON COMPACTED SOILS -- PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2
- 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 MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO
- 24. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES. 25. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE
- ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN
- 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 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 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION, CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
- 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
- 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.
- FAILURE TO CORRECTLY INSTALL E&S RMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNGE FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE. CIVIL. AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION

OPTIONAL NOTES

- CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR
- GROUNDWATER SYSTEMS ALL CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION. AND CONSTRUCTION MATERIAL/WASTES
- UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING. ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN THE MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE
- CHANNELS HAVING RIPRAP, RENO MATTRESS, OR GABION LININGS MUST BE SUFFICIENTLY OVER-EXCAVATED SO THAT THE DESIGN DIMENSIONS WILL BE PROVIDED AFTER PLACEMENT OF SEDIMENT BASINS AND/OR TRAPS SHALL BE KEPT FREE OF ALL CONSTRUCTION WASTE, WASH
- WATER, AND OTHER DEBRIS HAVING POTENTIAL TO CLOG THE BASIN/TRAP OUTLET STRUCTURES AND/OR POLLUTE THE SURFACE WATERS SEDIMENT BASINS SHALL BE PROTECTED FROM UNAUTHORIZED ACTS BY THIRD PARTIES. ANY DAMAGE THAT OCCURS IN WHOLE OR IN PART AS A RESULT OF BASIN OR TRAP DISCHARGE SHALL BE IMMEDIATELY REPAIRED BY THE PERMITTEE IN A PERMANENT MANNER SATISFACTORY
- TO THE MUNICIPALITY, LOCAL CONSERVATION DISTRICT, AND THE OWNER OF THE DAMAGED UPON REQUEST, THE APPLICANT OR HIS CONTRACTOR SHALL PROVIDE AN AS-BUILT (RECORD DRAWING) FOR ANY SEDIMENT BASIN OR TRAP TO THE MUNICIPAL INSPECTOR, LOCAL
- CONSERVATION DISTRICT OR THE DEPARTMENT EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS
- 10. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN MAXIMUM ____LAYERED LIFTS AT _____% DENSITY



ROCK CONSTRUCTION ENTRANCE DETAIL (PADEP STANDARD CONSTRUCTION DETAIL #3-1)

- 1. REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.
- 2. RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

(NOT TO SCALE)

- 3. MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED. 4 MAINTENANCE ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY
- MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS

JOINING FENCE SECTIONS

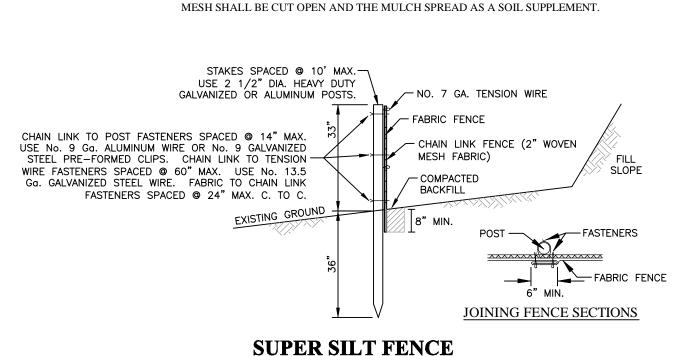
- FABRIC FENCE

COMPACTED BACKFILL

TOE ANCHOR

TRENCH

ELEVATION VIEV



(PADEP STANDARD CONSTRUCTION DETAIL #4-10)

(NOT TO SCALE)

CHAIN LINK SHALL BE GALVANIZED NO. 11.5 GA. STEEL WIRE WITH 2 1/4" OPENING. NO. 11 GA

4 SILT FENCE SHALL BE PLACED AT EXISTING LEVEL GRADE, BOTH ENDS OF THE FENCE SHALL BE

CHAIN-LINK FENCE OR ATTACHED WITH HOG RINGS AT 5' (MAX.) CENTERS.

6. FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN TRIBUTARY AREA IS

ALUMINUM COATED STEEL WIRE IN ACCORDANCE WITH ASTM-A-491, OR GALVANIZED NO. 9 GA

STEEL WIRE TOP AND BOTTOM WITH GALVANIZED NO. 11 GA. STEEL INTERMEDIATE WIRES, NO. 7

GAGE TENSION WIRE TO BE INSTALLED HORIZONTALLY THROUGH HOLES AT TOP AND BOTTOM OF

EXTENDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO MAIN BARRIER ALIGNMENT (FIGURE 4.1)

SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVEGROUND HEIGHT

FILTER FABRIC WIDTH SHALL BE 42" MINIMUM.

PERMANENTLY STABILIZED

POSTS SHALL BE INSTALLED USING A POSTHOLE DRI

BLOWN/PLACED -

FILTER MEDIA

DISTURBED AREA

FILTER SOCK

SOCK IF SO SPECIFIED BY THE MANUFACTURER.

MANUFACTURER'S RECOMMENDATIONS.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.

DISTURBED

PLAN VIEW

COMPOST FILTER SOCK

(PADEP STANDARD CONSTRUCTION DETAIL #4-1

(NOT TO SCALE)

1. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE

SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK

ALIGNMENT (FIGURE 4.1). MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED

THAT SHOWN ON FIGURE 4.2. STAKES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVEGROUND

SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN

HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN

SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS

5. BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS: PHOTODEGRADABLE

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED.

THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE

SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO

CONTOURS

- 2"x2" WOODEN STAKES

- COMPOST FILTER SOCK

2"x2" WOODEN STAKES

PLACED 10' O.C.

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

- (NOT TO SCALE) 1. FABRIC WIDTH SHALL BE 30" MINIMUM. STAKES SHALL BE HARDWOOD OR
- EOUIVALENT STEEL (U OR T) STAKES

STAKES SPACED @ 8' MAX. USE-

2"x2"x48" (+3/8") WOOD OR

GROUND

EQUIVALENT STEEL (U OR T) STAKES

- SILT FENCE SHALL BE PLACED AT LEVEL EXISTING GRADE. BOTH ENDS OF THE FENCE SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO
- THE MAIN FENCE ALIGNMENT (SEE FIGURE 4.1). SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE
- ABOVEGROUND HEIGHT OF THE FENCE. 4. ANY SECTION OF SILT FENCE WHICH HAS BEEN UNDERMINED OR TOPPED
- SHALL BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET (STANDARD
- CONSTRUCTION DETAIL # 4-6). 5. FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN TRIBUTARY AREA IS PERMANENTLY STABILIZED.

12" OVERLAP NORTH AMERICAN GREEN S75 OR APPROVED EQUAL EROSION CONTROL BLANKET FINISH GRADE 'DITCH WITCH' OR SIMILAR EQUIPMENT

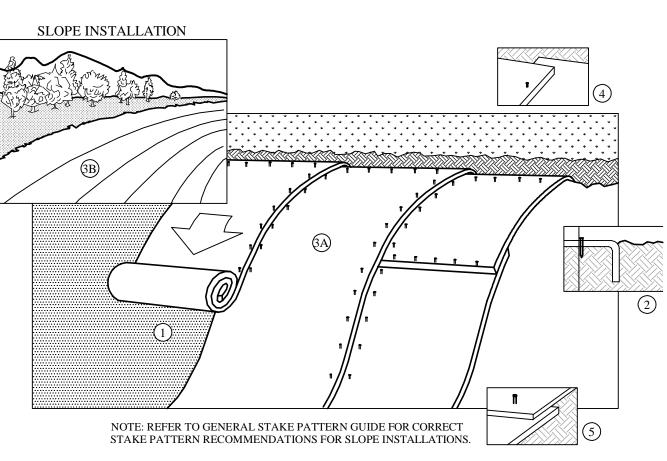
NOTES:

- COMPLETE GRADING OF SLOPE
- 2. CULTIVATE THE SOIL TO A DEPTH OF 6 INCHES, INCORPORATING FERTILIZER AND LIME WHERE IECESSARY, PROVIDING AN EVEN SURFACE, FREE FROM EXCESSIVE STONES, CLODS OR TRASH.
- 3. SEED AND MULCH THE AREA AS OUTLINED IN SEEDING SCHEDULE. 4. UNREEL THE MATTING UP AND DOWN THE SLOPE. THIS IS BEST ACHIEVED BY PLACING A METAL PIPE THROUGH THE CENTER OF THE ROLL THROUGH WHICH IS PASSED A ROPE. BY HOLDING EACH END OF THE ROPE, THE ROLL CAN BE UNWOUND SLOWLY DOWN THE SLOPE. THE MATTING SHOULD NOT BE STRETCHED NOR ALLOWED TO LIE LOOSELY. BUT TO TAKE UP THE CONTOURS OF
- THE GROUND. THE MANUFACTURER'S RECOMMENDATIONS FOR OVERLAPPING ADJACENT STRIPS SHALL BE FOLLOWED. 5. UPHILL ENDS OF THE MATTING SHALL BE BURIED IN A 6-INCH DEEP SLOT AND STAPLED, AS
- SHOWN, AT 12-INCH CENTERS ACROSS THE WIDTH OF THE MAT. AT JOINTS, THE DOWNHILL END SHOULD BE OVERLAPPED (SHINGLE FASHION). 6. MATTING SHOULD BE STAPLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS, BUT
- AND DOWN ITS CENTERLINE 7. FOLLOWING INSTALLATION, MESH MATTINGS SHOULD BE ROLLED WITH A SMOOTH ROLLER TO BRING INTO CLOSE CONTACT WITH THE SOIL AND TO CONSOLIDATE THE SEEDBED.

EROSION BLANKET INSTALLATION FOR SLOPES

1" REBAR FOR BAG EXPANSION RESTRAINT REMOVAL FROM INLE (1/4" NYLON ROPE. 2" FLAT WASHERS) **INSTALLATION DETAIL**

SEDIMENT FILTER BAG INLET PROTECTION DETAIL



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN. 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH.

BACKFILL AND COMPACT THE TRENCH AFTER STAKING. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE.

THE EDGES OF PARALLEL BLANKETS MUST BE STAKED WITH APPROXIMATELY 2" OVERLAP WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAKE THROUGH OVERLAPPED AREA, APPROXIMATELY

STAPLE PATTERN 'D' GUIDE (USE ON 1:1 SLOPES AND CHANNELS X X XX' X X X 'X 3.4 STAPLES PER SQ YD

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO

NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm)

APART ACROSS THE WIDTH OF THE BLANKET 3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE

STAPLE PATTERN. . PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4"-6" (10cm-15cm) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER TO SECURE BLANKETS.

5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2"-5" (5cm-12.5cm) (DEPENDING ON BLANKET TYPE) AND STAPLED. TO ENSURE PROPER SEAM

ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE BLANKET BEING OVERLAPPED 7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9m-12m) INTERVALS. USE A DOUBLE ROW OF STAPLES

STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm)

WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

OVERLAPS AND SEAMS PROJECTED WATER LINE CHANNEL BOTTOM/SIDE SLOPE VERTICES

10/3/2014

1" = 20'

TAH

Checked by

CAD

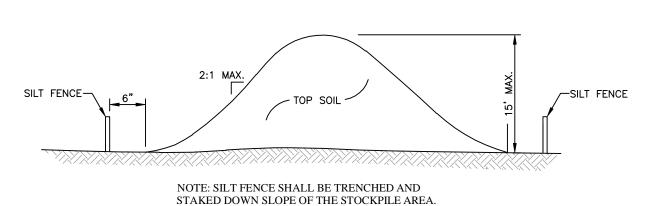
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HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.

** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

DETAIL PROVIDED BY: NORTH AMERICAN GREEN 14649 HIGHWAY 41 NORTH, EVANSVILLE, INDIANA 47725 USA 1-800-772-2040 CANADA 1-800-448-2040 www.nagreen.com

NORTH AMERICAN GREEN MATTING DETAIL



TYPICAL TOPSOIL STOCKPILE CROSS SECTION

GENERALLY STAPLES SHOULD BE INSERTED ON 12-INCH CENTERS DOWN EACH EDGE OF THE MAT

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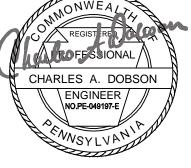
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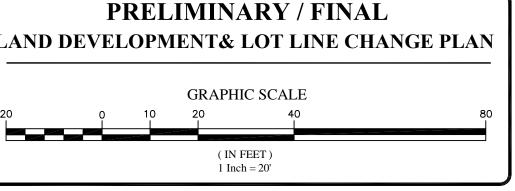
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ı	1	01-30-2015	PER TOWNSHIP ENGINEER REVIEW LETTER DATED 10-24-20
	2	04-01-2015	PER TOWNSHIP ENGINEER REVIEW LETTER DATED 02-23-20
ı	3	05-19-2015	PER TOWNSHIP ENGINEER REVIEW LETTER DATED 05-07-20
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No. Date: Description



SEDIMENTATION AND EROSION CONTROL **DETAILS & NOTES FOR**

BLOOMINGDALE AVE., LLC 120 & 124 BLOOMINGDALE AVE. **WAYNE, PA 19087**

RADNOR TOWNSHIP • DELAWARE COUNTY • PENNSYLVANIA

OF 14

S H E E T

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STAPLE PATTERN 'B' GUIDE

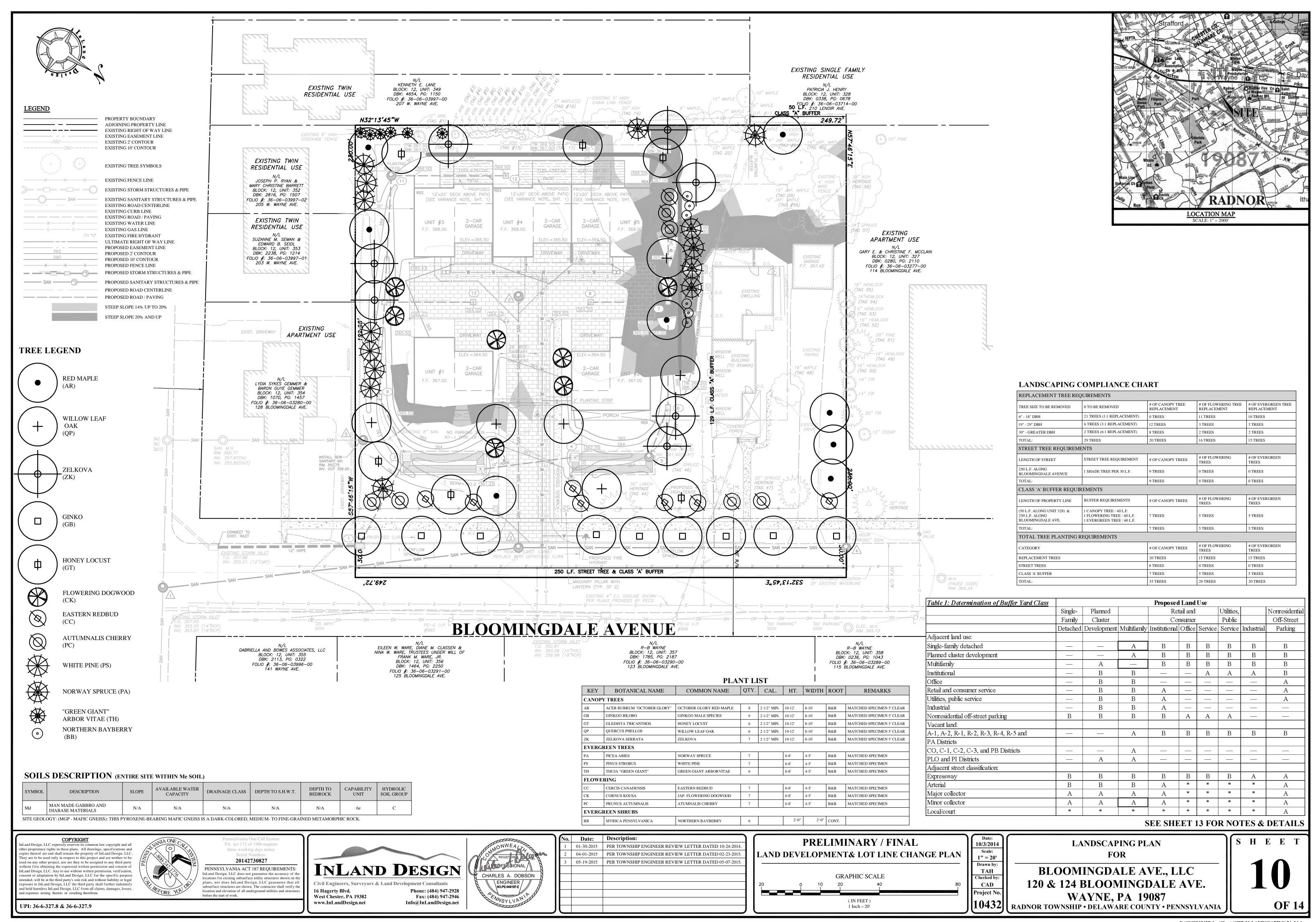
(USE ON 3:1 SLOPES)

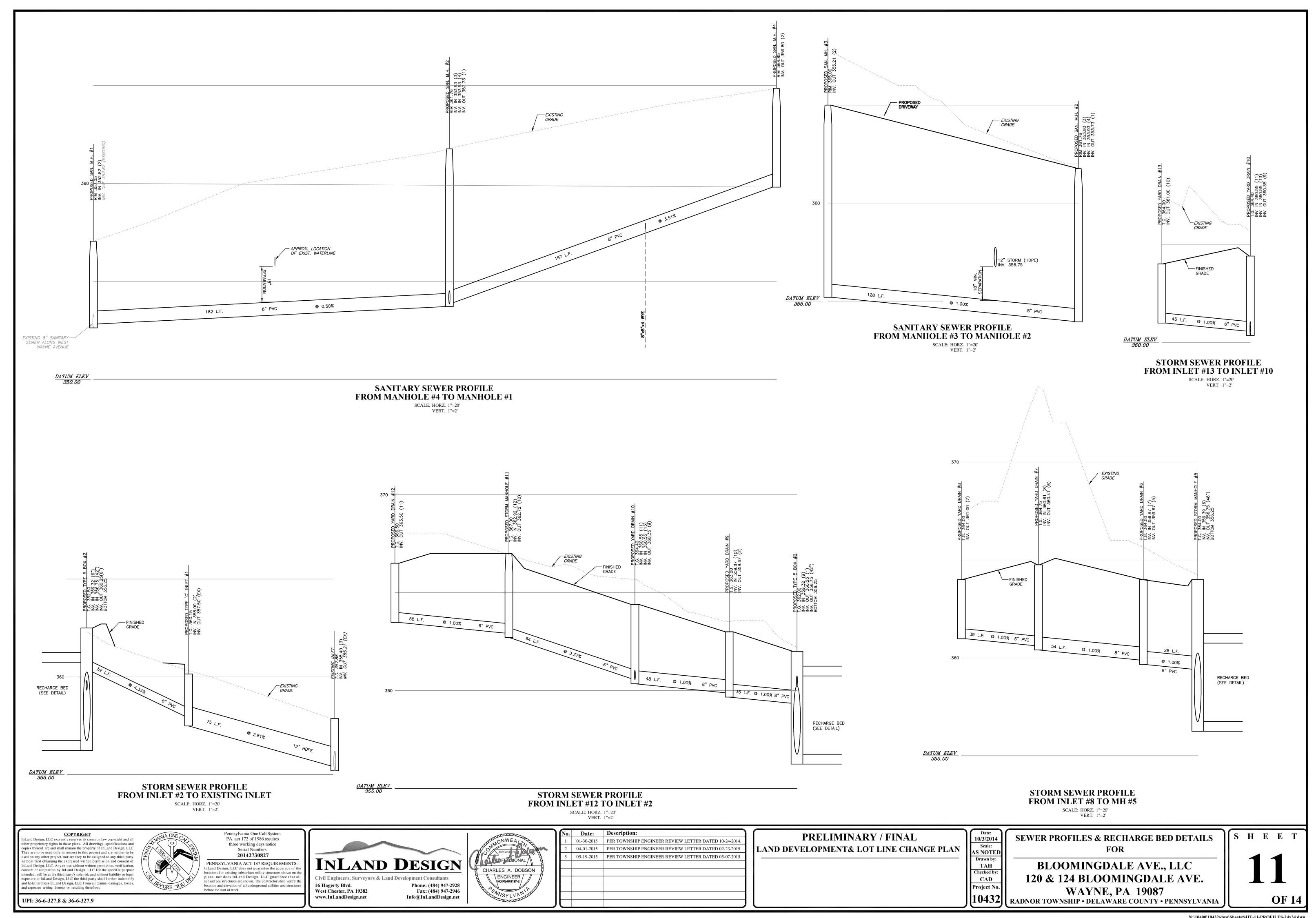
1.15 STAPLES PER SQ Y

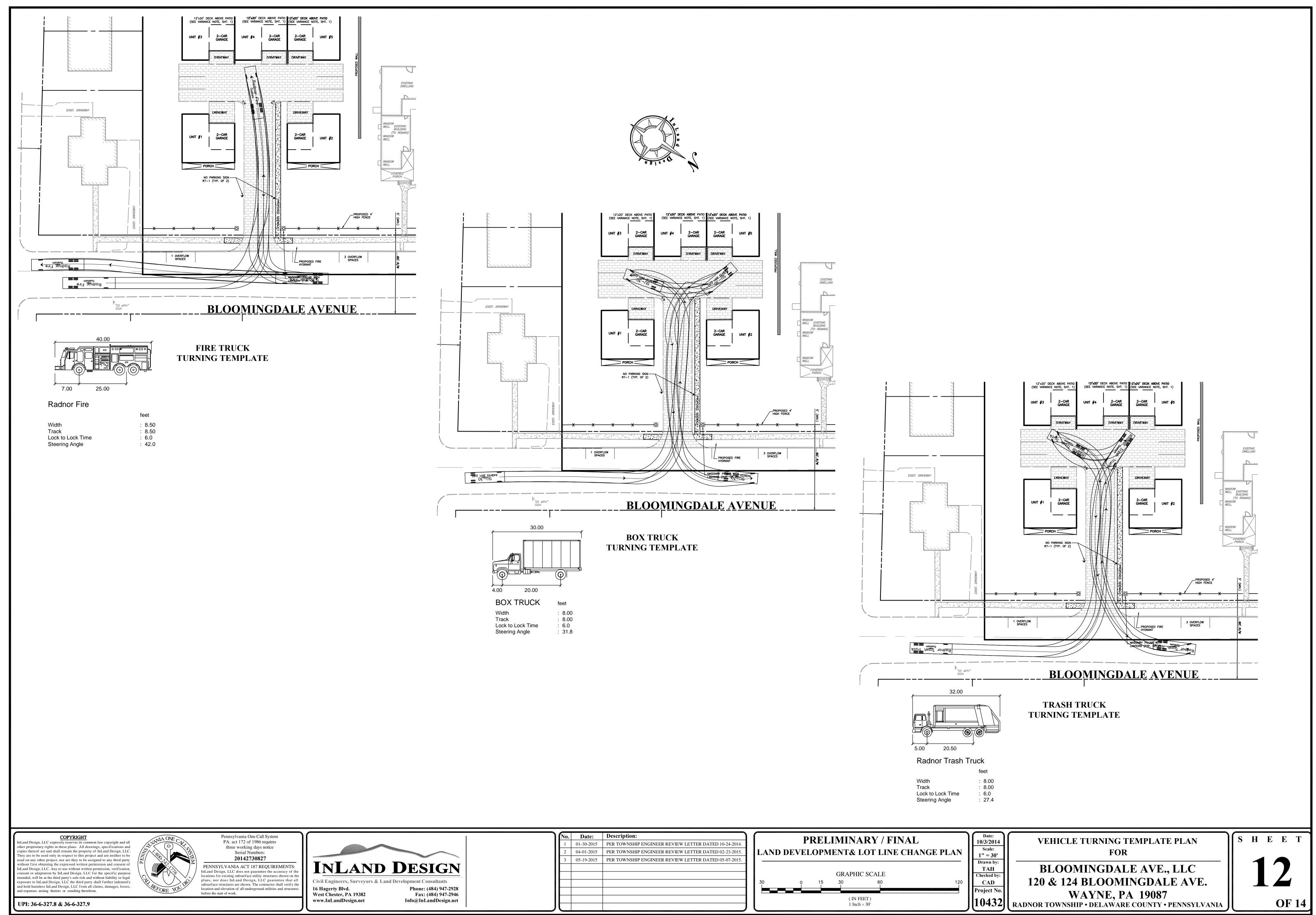
UPI: 36-6-327.8 & 36-6-327.9

d expenses arising thereto or resulting therefrom.

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- SPECIFIED, ACCURATE LAYOUT, SUFFICIENT TOPSOIL NUTRIENT ADDITIVES, PEAT MOSS, PLANTING, PRUNING, STAKING, WATERING, LABOR, CLEAN-UP AND ALL OTHER NECESSARY SERVICES TO EXECUTE THE PLANTINGS PROPERLY AND IN FULL ACCORDANCE WITH THESE SPECIFICATIONS AND DETAILS.
- ALL PLANT MATERIALS ARE TO BE NURSERY GROWN, OF EXCELLENT LANDSCAPE QUALITY AND FREE FROM INSECTS AND DISEASES. FURTHERMORE, PLANTS SHALL HAVE BEEN GROWN FOR AT LEAST TWO YEARS IN THE SAME HARDINESS ZONE AS THE SITE. INSTALLATION TO BE IN ACCORDANCE WITH AMERICAN ASSOCIATION OF NURSERYMAN STANDARDS.
- PLANT SIZES SHALL BE A FAIR AVERAGE BETWEEN THE SIZE RANGE INDICATED. CALIPER SHALL BE MEASURED AT 4.5' ABOVE GROUND.
- TREES IN PAVED AREAS SHALL BE UNIFORM IN SHAPE, SIZE, AND CHARACTER, LOWEST BRANCHES SHALL BE AT LEAST 7' FROM GROUND. IF TREES CANNOT BE LOCATED WHERE SHOWN DUE TO UTILITIES OR OTHER
- OBSTRUCTIONS, EXISTING OR PROPOSED, TREES SHALL BE RELOCATED IN THE FIELD AS APPROVED BY THE OWNER'S REPRESENTATIVE.
- NO SUBSTITUTIONS ARE ACCEPTABLE UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE AND THE TOWNSHIP.
- LANDSCAPE CONTRACTOR TO GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF 18 MONTHS FROM THE DAY OF FINAL APPROVAL OF THE LANDSCAPE INSTALLATION BY
- BACKFILL MIXTURE SHALL BE A MIXTURE BY VOLUME OF 3/4 TOPSOIL (TO BE PROVIDED ON SITE) AND 1/4 PEAT MOSS.
- 10. ALL SHRUBS AND GROUND COVER SHALL BE PLACED IN CONTINUOUS BEDS AS DELINEATED ON THE PLANS.
- 11. MULCH TO BE SHREDDED OAK BARK OR APPROVED EQUAL AND SPREAD TO A MINIMUM DEPTH OF 2 INCHES. 12. A PRE-EMERGENT HERBICIDE SUCH AS "TREPLAN" SHALL BE APPLIED TO ALL PLANTING BEDS ACCORDING TO MANUFACTURER'S RECOMMENDATION (PRIOR TO PLACEMENT OF MULCH). A SECOND APPLICATION OF PRE-EMERGENT HERBICIDE SHALL BE INCLUDED AS
- A PART OF THIS WORK. 13. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE TO SELECT ALL PLANT MATERIAL AT THE NURSERY AND APPROVE STAKING OF ALL PLANT MATERIAL LOCATIONS AT THE SITE BEFORE DELIVERY.
- 14. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR WATERING IN SUFFICIENTLY AT TIME OF PLANTING AND UNTIL JOB IS COMPLETED AND TURNED OVER TO OWNER.

SEEDING SPECIFICATIONS:

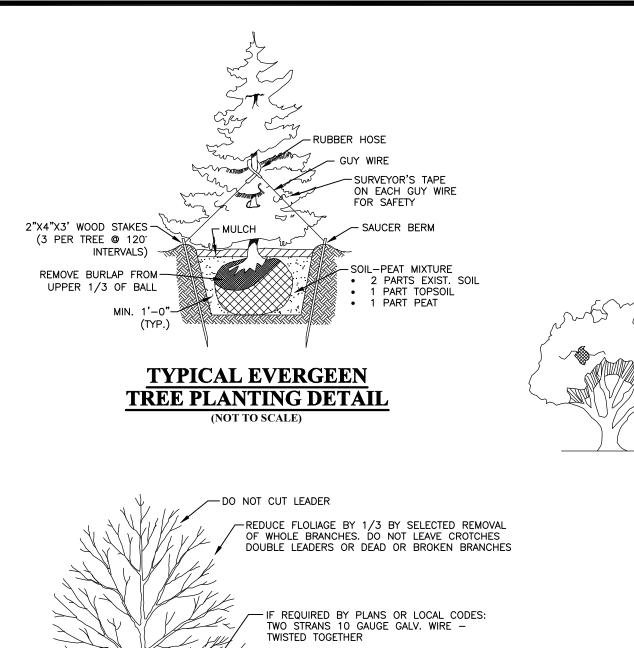
- . ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE SEEDED. SEEDING SHALL COMMENCE BETWEEN AUGUST 15 AND SEPTEMBER 30. OR BETWEEN MARCH 15 AND APRIL 30, AS WEATHER PERMITS AND/OR AS APPROVED BY THE OWNER'S REPRESENTATIVE.
- TOPSOIL USED FOR SEEDING IS STOCKPILED ON SITE. TOPSOIL SHALL BE SPREAD TO A DEPTH OF 6" AND FIND GRADED, REMOVING ALL DEBRIS AND STONES LARGER THAN 1". REMOVE FROM THE SITE ALL DEBRIS AND STONES.
- INCORPORATE BY DISCING INTO THE TOP 2" OF THE TOPSOIL THE FOLLOWING: A) AGRICULTURAL LIMESTONE AT 50 LBS./1000 S.F. B) FERTILIZER (5-10-5) AT 30 LBS./1000 S.F.
- SEEDING MIX: APPLY GRASS SEED COMPOSED OF THE FOLLOWING VARIETIES WHICH SHALL BE MIXED IN THE PROPORTIONS AND SHALL TEST THE MINIMUM PERCENTAGES

OF PURITY AND GERMINATION SPECIFIED. MIXTURE A: (SEED RATE @ 4-1/2 LBS./1,000 S.F. OR 200 LB./ACRE

MIN. % MIN. % MAX % BY WT. COMMON NAME

- GERMINATION PURE SEED WEED SEED HYBRID KY BLUEGRASS HYBRID TURF TYPE TALL FESCUE HYBRID PERENNIAL RYE
- 6. FIRM SEED BED WITH ROLLER AND MULCH WITH SALT HAY AND ASPHALTIC TACK COAT OR HYDRO MULCH AT THE RATE OF 1,500 LBS. PER ACRE. ALL LAWN WORK INCLUDING THE REPAIR OF WASHOUTS, GULLIES, ETC., SHALL BE GUARANTEED FOR ONE CALENDAR YEAR FROM THE DATE OF COMPLETION OF
- SOD (IF REQUIRED) SHALL BE SAME AS SEED MIX AND INSTALLED IN ACCORDANCE WITH AMERICAN ASSOCIATION OF SOD PRODUCERS' STANDARDS.

- 1. ALL STREET TREES, SCREEN BUFFERS, REPLACEMENT TREES, INDIVIDUAL LOT LANDSCAPING AND OTHER REQUIRED PLANT MATERIAL SHALL BE PLANTED PRIOR TO THE ISSUANCE OF A USE AND OCCUPANCY PERMIT.
- ALL PLANT MATERIAL TO BE INSTALLED IN ACCORDANCE WITH THE PLANTING PRACTICES STATED IN CHAPTER 3 OF TREE MAINTENANCE BY T.P. PIRONE.
- THE DEVELOPER IS TO CONTACT THE TOWNSHIP IN WRITING TO REQUEST A FINAL INSPECTION OF ACCEPTANCE AT THE END OF THE GUARANTY PERIOD.
- 4. PLANT MATERIAL IN CLOSE PROXIMTY TO PROPOSED AND EXISTING UTILITIES TO BE ADJUSTED AT TIME OF PLANTING TO AVOID ANY CONFLICT WITH THE UTILITIES.



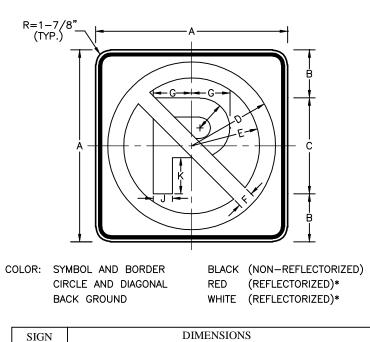
-2"x 2" OAK STAKES (THREE TOTAL PER . . . TREE AT 120' INTERVALS) **MASONRY PILLAR DETAIL** - PLACE TREE IN SAME RELATIONSHIP TO GRADE AS IT GREW IN THE NURSERY -2" DOUBLE SHREDDED HARDWOOD BARK MULCH -FINISH GRADE - SLOPE PER PLAN

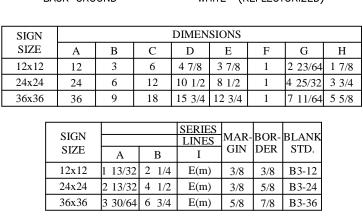
-CUT TWINE AND REMOVE BURLAP FROM

- BACKFILL MIXTURE PER SPECIFICATIONS

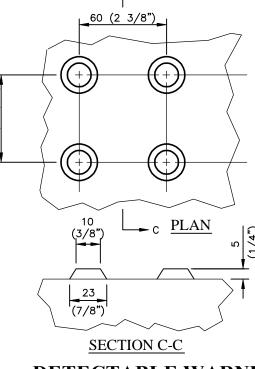
TOP 1/3 OF ROOT BALL

UNDISTUBED OR COMPACTED SUBGRADE





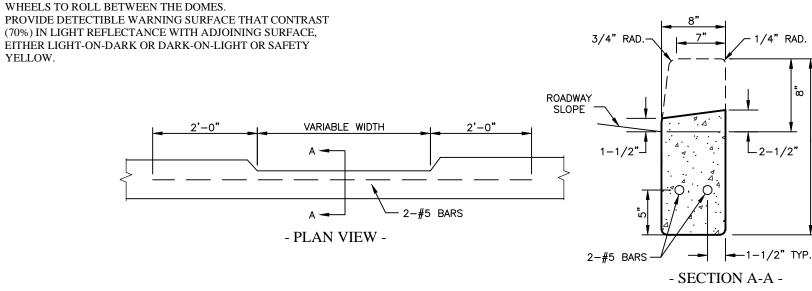




DETECTABLE WARNING

TRUNCATED DOME DETAILS (DWS) PENNDOT RC-67M (NOT TO SCALE)

- 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. U.S. CUSTOMARY UNITS () PARENTHESIS.
- 2. ALIGN DETECTIBLE WARNING DOMES ON A SOUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT
- 3. PROVIDE DETECTIBLE WARNING SURFACE THAT CONTRAST
- (70%) IN LIGHT REFLECTANCE WITH ADJOINING SURFACE. EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT OR SAFETY YELLOW



DEPRESSED CURB FOR DRIVES DETAIL

×ŘEĽGIÁN

(BLOCK

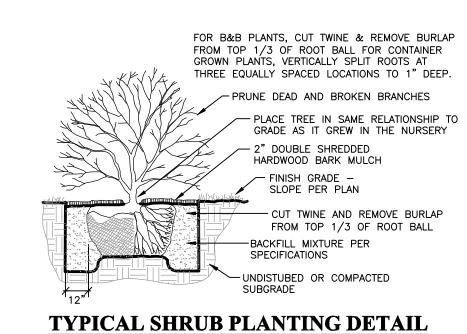
BELGIAN BLOCK CURB DETAIL

-CLASS 'C' CONCRETE

CHAIR (12" LONG)

AT EACH JOINT

NOT TO SCALE

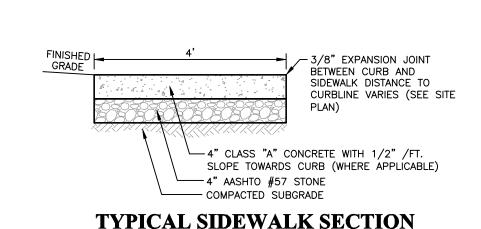


- TREE PROTECTION FENCE

TYPICAL DECIDUOUS TREE

PLANTING DETAIL

(NOT TO SCALE)



(NOT TO SCALE)

-PROPOSED LAMP

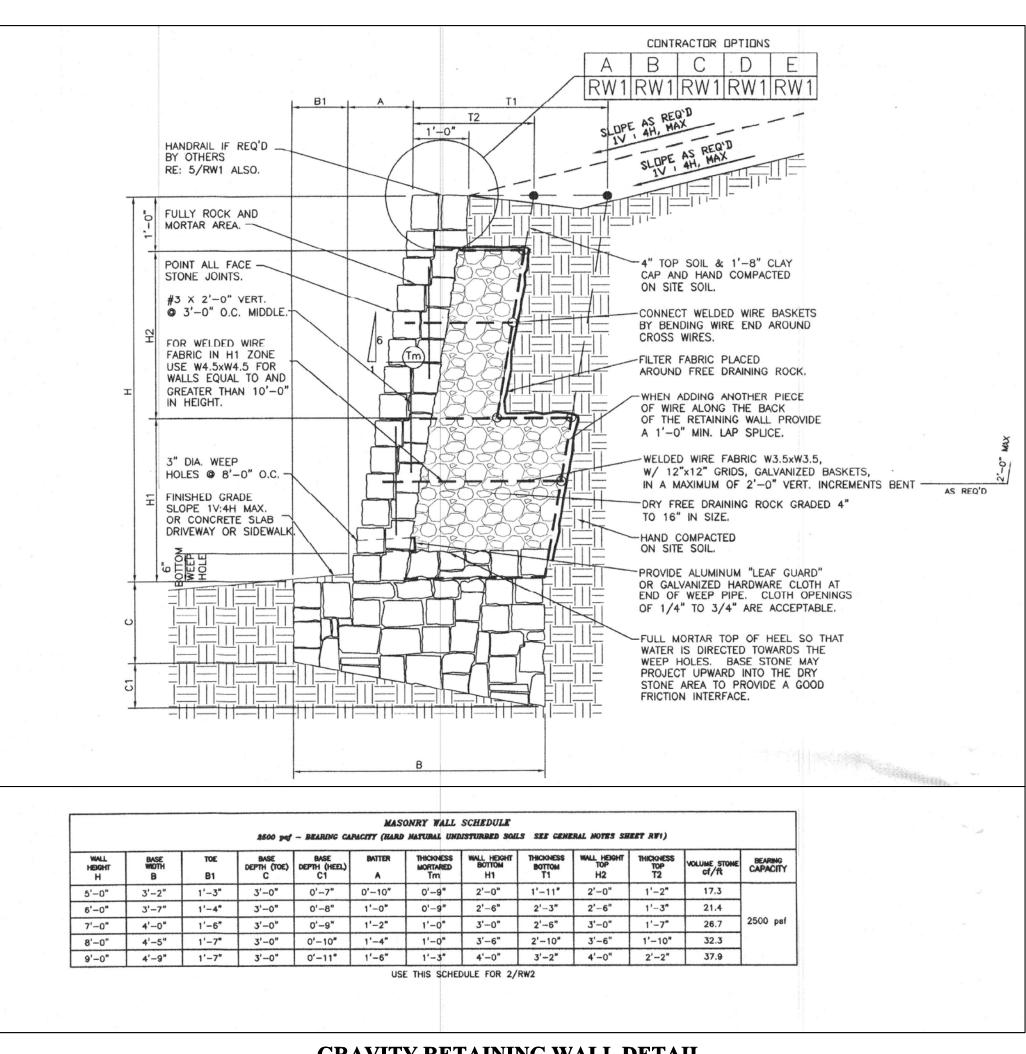
DECORATIVE

VENEER (BOTH

GROUND LEVEL

- CONCRETE PAVER 3 1/8" (80 MM) MIN. THICKNESS 1" (25 MM) BEDDING SAND OR 3/4" (15MM) BITUMINOUS SETTING BED -GEOTEXTILE UNDER BEDDING SAND - COVER JOINTS AND TURN UP AGAINST CURB SAND-FILLED JOINTS -COMPACTED SOIL -COMPACTED, OPEN GRADED AGGREGATE SUB-BASE AS REQUIRED

PAVER DETAIL (NOT TO SCALE) TO BE USED ON ENTRANCE DRIVE AND OFF-STREET PARKING BASE THICKNESS AND REINFORCING VARIES WITH TRAFFIC, CLIMATE, AND SUBGRADE CONDITIONS.



GRAVITY RETAINING WALL DETAIL

10/3/2014

Scale:

AS NOTE

TAH

Checked by

CAD

Project No

- CHAIN LINK FABRIC ATTACHED TO POSTS WITH 6 GA. WIRE TIES @ 24" O.C. MAX. TYP. — 7 GA. TENSION - POST SPACING -10' O.C. MAX. GRADE - MIN. 24" POST

- PROTECTION BARRIERS SHALL BE 6 FEET HIGH, CONSTRUCTED OF 2" CHAIN LINK MESH FABRIC.
- FABRIC SHALL BE SECURED TO 2" POSTS WITH 6 GA. ALUMINUM WIRE TIES
- POSTS SHALL BE A MINIMUM OF 2 FEET IN THE GROUND AND SPACED 10 FEET ON CENTER MAX.

4. PLASTIC ZIP-TIES MAY NOT BE USED TO SECURE FABRIC TO POSTS.

TREE PROTECTION **BARRIER FENCING**



Pennsylvania One Call System

three working days notice

Serial Numbers:

20142730827

PENNSYLVANIA ACT 187 REQUIREMENTS:

InLand Design, LLC does not guarantee the accuracy of the

locations for existing subsurface utility structures shown on the

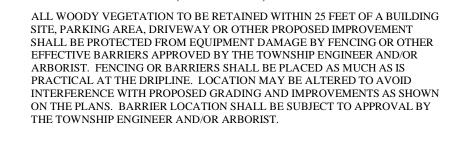
plans, nor does InLand Design, LLC guarantee that all

subsurface structures are shown. The contractor shall verify the

location and elevation of all underground utilities and structures

before the start of work.

PA. act 172 of 1986 requires



West Chester, PA 19382

www.InLandDesign.net

TREE PROTECTION



Fax: (484) 947-2946 Info@InLandDesign.net

ATTEN STATE OF THE	No.	Date:	Description:
MMONWEALTA	1	01-30-2015	PER TOWNSHIP ENGINEER REVIEW LETTER DATED 10-24-2014.
REGIST IREA	2	04-01-2015	PER TOWNSHIP ENGINEER REVIEW LETTER DATED 02-23-2015.
PROFESSIONAL A	3	05-19-2015	PER TOWNSHIP ENGINEER REVIEW LETTER DATED 05-07-2015.
MIND DOSIONAL/			
CHARLES A. DOBSON			
ENGINEER / // NO.PE-049197-E			
A SOLD AND			
MASYLVAN			

PRELIMINARY / FINAL LAND DEVELOPMENT& LOT LINE CHANGE PLAN

CONSTRUCTION DETAILS

FOR BLOOMINGDALE AVE., LLC 120 & 124 BLOOMINGDALE AVE. **WAYNE, PA 19087**

RADNOR TOWNSHIP • DELAWARE COUNTY • PENNSYLVANIA

OF 14

S H E E T

UPI: 36-6-327.8 & 36-6-327.9

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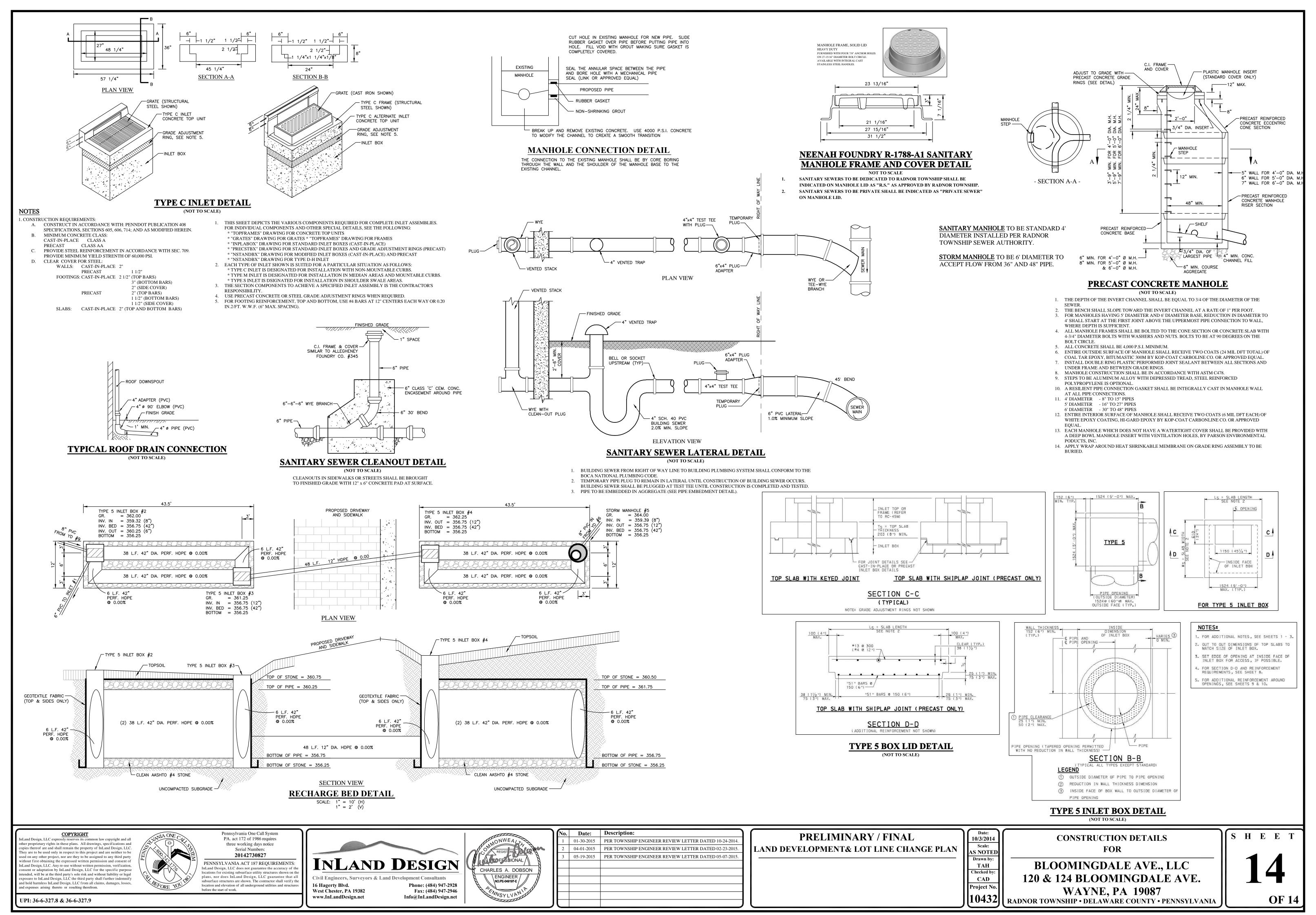
onsent or adaptation by InLand Design, LLC for the specific purpose

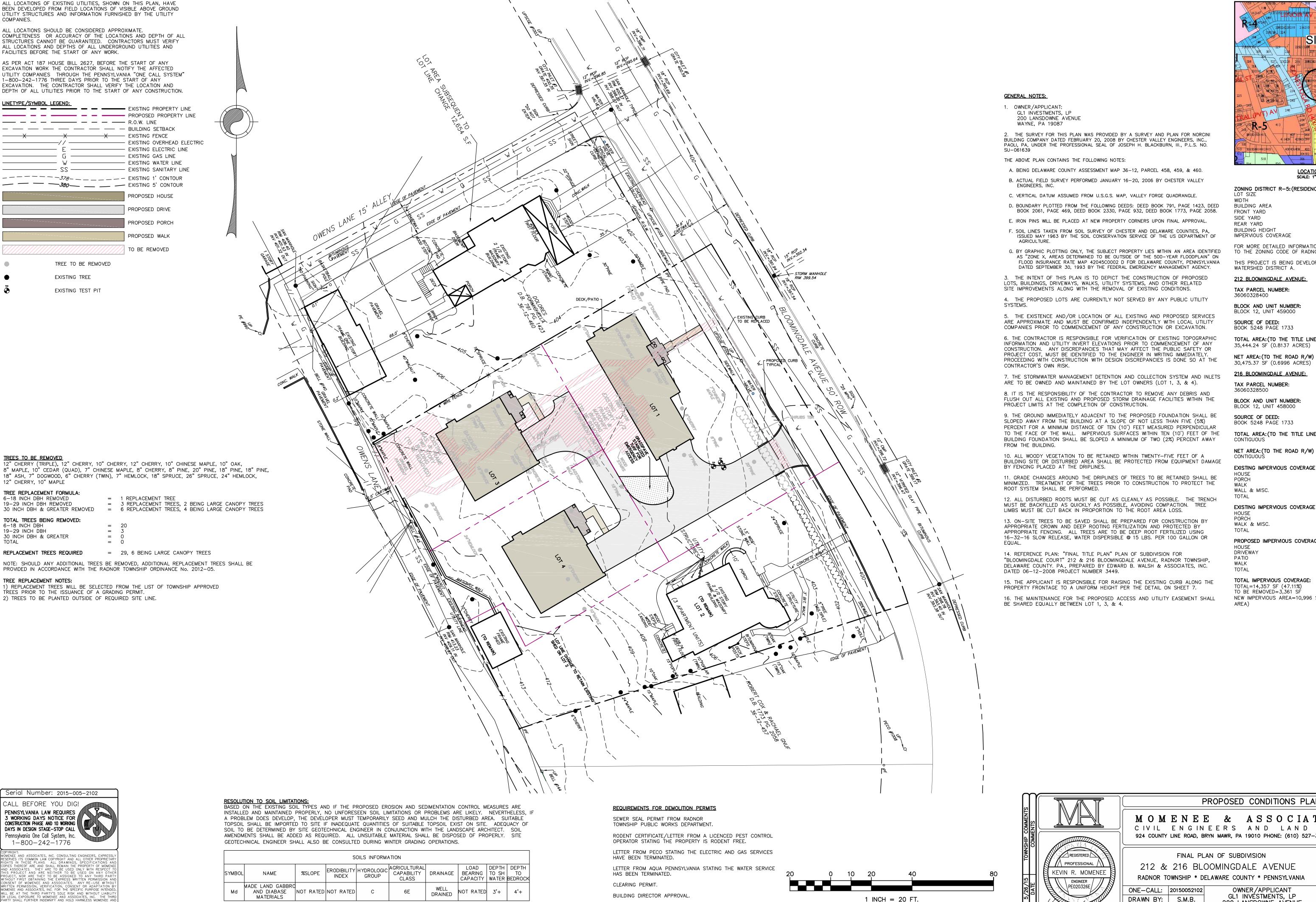
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posure to InLand Design, LLC the third party shall further indemnify

and hold harmless InLand Design, LLC from all claims, damages, losses, and expenses arising thereto or resulting therefrom.

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ZONING DISTRICT R-5: (RESIDENCE DISTRICT) 5,500 SF MIN 55' MIN 35% MAX 25' MIN 10' MIN 20' MIN

40% MAX FOR MORE DETAILED INFORMATION YOUR ATTENTION IS CALLED TO THE ZONING CODE OF RADNOR TOWNSHIP, LATEST EDITION.

35'/20' ACCESSORY

THIS PROJECT IS BEING DEVELOPED IN THE DARBY CREEK WATERSHED DISTRICT A.

212 BLOOMINGDALE AVENUE:

TOTAL AREA: (TO THE TITLE LINE)

TOTAL AREA: (TO THE TITLE LINE)

NET AREA: (TO THE ROAD R/W)

EXISTING IMPERVIOUS COVERAGE TO REMAIN (LOT 2): 217 SF 730 SF 105 SF

2,948 SF (9.67%) EXISTING IMPERVIOUS COVERAGE TO BE REMOVED: 2,030 SF (6.66%)

1.235 SF 3,361 SF (11.03%)

PROPOSED IMPERVIOUS COVERAGE:

4,452 SF (14.61%)

3,136 SF 276 SF 184 SF 8,048 SF (26.41%)

TOTAL=14,357 SF (47.11%)

NEW IMPERVIOUS AREA=10,996 SF (36.08%) (20.83% BUILDING

PROPOSED CONDITIONS PLAN

MOMENEE & ASSOCIATES, INC. CIVIL ENGINEERS AND LAND SURVEYORS 924 COUNTY LINE ROAD, BRYN MAWR, PA 19010 PHONE: (610) 527-3030 FAX: (610) 527-9008

CHECKED BY: J.C.M. WAYNE, PA 19087

SHEET NO. OF SCALE: 1" = 20'FILE NO.: 13-060

DATE: JANUARY 08, 2015

GL1 INVÉSTMENTS, LP DRAWN BY: | S.M.B. 200 LANSDOWNE AVENUE

1 INCH = 20 FT.

ALL LOCATIONS OF EXISTING UTILITIES, SHOWN ON THIS PLAN, HAVE BEEN DEVELOPED FROM FIELD LOCATIONS OF VISIBLE ABOVE GROUND UTILITY STRUCTURES AND INFORMATION FURNISHED BY THE UTILITY

ALL LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. COMPLETENESS OR ACCURACY OF THE LOCATIONS AND DEPTH OF ALL STRUCTURES CANNOT BE GUARANTEED. CONTRACTORS MUST VERIFY ALL LOCATIONS AND DEPTHS OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE THE START OF ANY WORK.

AS PER ACT 187 HOUSE BILL 2627, BEFORE THE START OF ANY EXCAVATION WORK THE CONTRACTOR SHALL NOTIFY THE AFFECTED UTILITY COMPANIES THROUGH THE PENNSYLVANIA "ONE CALL SYSTEM" -800-242-1776 THREE DAYS PRIOR TO THE START OF ANY EXCAVATION. THE CONTRACTOR SHALL VERIFY THE LOCATION AND

DEPTH OF ALL UTILITIES PRIOR TO THE START OF ANY CONSTRUCTION.

TREE TO BE REMOVED

<u>LINETYPE/SYMBOL LEGEND:</u> — — — — — EXISTING PROPERTY LINE

PROPOSED PROPERTY LINE — — BUILDING SETBACK — PROPOSED 4" SANITARY LATERAL PROPOSED 6" SANITARY MAIN PROPOSED STORMPIPE -378- - - - - - - EXISTING 1' CONTOUR — — 380— — — EXISTING 5' CONTOUR

> PROPOSED STORMWATER EASEMENT PROPOSED SANITARY EASEMENT

> > COMMON DRIVE

EXISTING TREE

RADNOR TOWNSHIP ZONING HEARING BOARD APPEAL NO. 2746 ORDER DATED OCTOBER 18, 2007

BASED UPON THE RECORD AND UPON THE FACTS AND CIRCUMSTANCES PECULIAR TO THE SUBJECT PREMISES, THIS BOARD DETERMINES THAT OWENS LANE, AT PRESENT TIME AND AS SAME PRESENTLY EXISTS, CONSTITUTES A "STREET" UNDER ZONING CODE 280-4, SUBJECT TO ALL CONDITIONS AND QUALIFICATIONS SET FORTH ABOVE.

WAIVER LIST:

THE APPLICANT REQUESTS THE FOLLOWING WAIVERS OF THE RADNOR TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE:

1. SECTION 255-27.I(6) - NO COMMON DRIVEWAYS SHALL BE PERMITTED BETWEEN TWO (2) OR MORE SINGLE-FAMILY DWELLINGS. THE PROPOSED DRIVEWAY IS CENTRALLY LOCATED WITHIN THE

2. SECTION 255-27.I(7) - NO COMMON DRIVEWAY SHALL PROVIDE ACCESS TO MORE THAN THREE (3) LOTS OR THREE (3) SINGLE-FAMILY DWELLINGS. APPLICANT WISHES TO CONSTRUCT A SHARED DRIVEWAY SERVING

DEVELOPMENT, BETWEEN TWO (2) OF THE PROPOSED DWELLINGS.

DETERMINED BY THE WIDTH OF THE REQUIRED CARTWAY AND

BUILT TO THE SPECIFICATIONS ESTABLISHED BY THE TOWNSHIP.

3. SECTION 255-47.D - ALONG THE EXISTING STREET ON WHICH A SUBDIVISION OR LAND DEVELOPMENT ABUTS (HEREINAFTER CALLED A "BOUNDARY STREET"), IMPROVEMENTS SHALL BE MADE TO THE STREET. THE IMPROVEMENTS TO THE BOUNDARY STREET SHALL BE

FIVE (5) DWELLINGS.

ZONING TABLE (R-5 RESIDENTIAL DISTRICT):

	REQUIRED	LOT 1	LOT 2	LOT 3	LOT 4
GROSS LOT AREA	N/A	12,030 S.F.	11,639 S.F.	5,832 S.F.	5,944 S.F.
NET LOT AREA	NET LOT AREA 5,500 S.F.		9,770 S.F.	5,832 S.F.	5,944 S.F.
LOT WIDTH	55' MIN.	124'	67'	60'	64'
FRONT YARD	25' MIN.	25'	25'	25'	25'
REAR YARD	20' MIN.	20'	20'	20'	20'
SIDE YARD	10' MIN.	10'	10'	10'	10'
MAX. BUILDING HEIGHT	35'	35'	35'	35'	35'
MAX. BUILDING AREA	35%	19.69%	19.41%	25.55%	24.90%
MAX. IMPERVIOUS AREA	40%	20.75%	29.05%	27.26%	26.56%

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OPIES THEREOF ARE AND SHALL REMAIN THE PROPERTY OF MOMENEE
IND ASSOCIATES. THEY ARE TO BE USED ONLY WITH RESPECT TO
HIS PROJECT AND ARE NEITHER TO BE USED ON ANY OTHER
ROJECT, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY
ATHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND
ONSENT OF MOMENEE AND ASSOCIATES. ANY RE-USE WITHOUT
ARITTEN PERMISSION, VERIFICATION, CONSENT OR ADAPTATION BY
IOMENEE AND ASSOCIATES, INC. FOR THE SPECIFIC PURPOSE INTENDED.
AND THE THE THIRD PARTY'S SOLE RISK AND WITHOUT LIBILITY L BE AT THE THIRD PARTY'S SDLE RISK AND WITHOUT LIABILIT LEGAL EXPOSURE TO MOMENEE AND ASSOCIATES, INC. THE THIR ITY SHALL FURTHER INDEMNIFY AND HOLD HARMLESS. MOMENEE AN

Serial Number: 2015-005-2102

PENNSYLVANIA LAW REQUIRES

CALL BEFORE YOU DIG!

3 WORKING DAYS NOTICE FOR 🎹

CONSTRUCTION PHASE AND 10 WORKING

DAYS IN DESIGN STAGE-STOP CALL \

Pennsylvania One Call System, Inc.

1-800-242-1776

RESOLUTION TO SOIL LIMITATIONS: BASED ON THE EXISTING SOIL TYPES AND IF THE PROPOSED EROSION AND SEDIMENTATION CONTROL MEASURES ARE INSTALLED AND MAINTAINED PROPERLY, NO UNFORESEEN SOIL LIMITATIONS OR PROBLEMS ARE LIKELY. NEVERTHELESS, IF A PROBLEM DOES DEVELOP. THE DEVELOPER MUST TEMPORARILY SEED AND MULCH THE DISTURBED AREA. SUITABLE TOPSOIL SHALL BE IMPORTED TO SITE IF INADEQUATE QUANTITIES OF SUITABLE TOPSOIL EXIST ON SITE. ADEQUACY OF SOIL TO BE DETERMINED BY SITE GEOTECHNICAL ENGINEER IN CONJUNCTION WITH THE LANDSCAPE ARCHITECT. SOIL AMENDMENTS SHALL BE ADDED AS REQUIRED. ALL UNSUITABLE MATERIAL SHALL BE DISPOSED OF PROPERLY. SITE GEOTECHNICAL ENGINEER SHALL ALSO BE CONSULTED DURING WINTER GRADING OPERATIONS.

	SOILS INFORMATION										
SYMBOL	NAME	%SLOPE	ERODIBILITY INDEX	HYDROLOGIC GROUP	AGRICULTURAL CAPABILITY CLASS	DRAINAGE	LOAD BEARING CAPACITY	DEPTH TO SH WATER	DEPTH TO BEDROCK		
Md	MADE LAND GABBRO AND DIABASE MATERIALS		NOT RATED	С	6E	WELL DRAINED	NOT RATED	3'+	4'+		





1. OWNER/APPLICANT: GL1 INVESTMENTS, LP 200 LANSDOWNE AVENUE WAYNE, PA 19087

2. THE SURVEY FOR THIS PLAN WAS PROVIDED BY A SURVEY AND PLAN FOR NORCINI BUILDING COMPANY DATED FEBRUARY 20, 2008 BY CHESTER VALLEY ENGINEERS, INC., PAOLI, PA, UNDER THE PROFESSIONAL SEAL OF JOSEPH H. BLACKBURN, III., P.L.S. NO.

THE ABOVE PLAN CONTAINS THE FOLLOWING NOTES:

- A. BEING DELAWARE COUNTY ASSESSMENT MAP 36-12, PARCEL 458, 459, & 460. B. ACTUAL FIELD SURVEY PERFORMED JANUARY 16-20, 2006 BY CHESTER VALLEY
- ENGINEERS, INC.
- C. VERTICAL DATUM ASSUMED FROM U.S.G.S. MAP, VALLEY FORGE QUADRANGLE.
- D. BOUNDARY PLOTTED FROM THE FOLLOWING DEEDS: DEED BOOK 791, PAGE 1423, DEED BOOK 2061, PAGE 469, DEED BOOK 2330, PAGE 932, DEED BOOK 1773, PAGE 2058. E. IRON PINS WILL BE PLACED AT NEW PROPERTY CORNERS UPON FINAL APPROVAL.
- F. SOIL LINES TAKEN FROM SOIL SURVEY OF CHESTER AND DELAWARE COUNTIES, PA, ISSUED MAY 1963 BY THE SOIL CONSERVATION SERVICE OF THE US DEPARTMENT OF
- G. BY GRAPHIC PLOTTING ONLY, THE SUBJECT PROPERTY LIES WITHIN AN AREA IDENTIFIED AS "ZONE X, AREAS DETERMINED TO BE OUTSIDE OF THE 500-YEAR FLOODPLAIN" ON FLOOD INSURANCE RATE MAP 42045C0002 D FOR DELAWARE COUNTY, PENNSYLVANIA DATED SEPTEMBER 30, 1993 BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

3. THE INTENT OF THIS PLAN IS TO DEPICT THE CONSTRUCTION OF PROPOSED LOTS, BUILDINGS, DRIVEWAYS, WALKS, UTILITY SYSTEMS, AND OTHER RELATED

4. THE PROPOSED LOTS ARE CURRENTLY NOT SERVED BY ANY PUBLIC UTILITY

SITE IMPROVEMENTS ALONG WITH THE REMOVAL OF EXISTING CONDITIONS.

5. THE EXISTENCE AND/OR LOCATION OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION.

6. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. ANY DISCREPANCIES THAT MAY AFFECT THE PUBLIC SAFETY OR PROJECT COST, MUST BE IDENTIFIED TO THE ENGINEER IN WRITING IMMEDIATELY. PROCEEDING WITH CONSTRUCTION WITH DESIGN DISCREPANCIES IS DONE SO AT THE CONTRACTOR'S OWN RISK.

7. THE STORMWATER MANAGEMENT DETENTION AND COLLECTION SYSTEM AND INLETS ARE TO BE OWNED AND MAINTAINED BY THE LOT OWNERS (LOT 1, 3, & 4). 8. 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.

9. THE GROUND IMMEDIATELY ADJACENT TO THE PROPOSED FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING AT A SLOPE OF NOT LESS THAN FIVE (5%) PERCENT FOR A MINIMUM DISTANCE OF TEN (10') FEET MEASURED PERPENDICULAR TO THE FACE OF THE WALL. IMPERVIOUS SURFACES WITHIN TEN (10') FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED A MINIMUM OF TWO (2%) PERCENT AWAY FROM THE BUILDING.

10. ALL WOODY VEGETATION TO BE RETAINED WITHIN TWENTY-FIVE FEET OF A BUILDING SITE OR DISTURBED AREA SHALL BE PROTECTED FROM EQUIPMENT DAMAGE BY FENCING PLACED AT THE DRIPLINES.

11 GRADE CHANGES AROUND THE DRIPLINES OF TREES TO BE RETAINED SHALL BE

MINIMIZED. TREATMENT OF THE TREES PRIOR TO CONSTRUCTION TO PROTECT THE ROOT SYSTEM SHALL BE PERFORMED. 12. ALL DISTURBED ROOTS MUST BE CUT AS CLEANLY AS POSSIBLE. THE TRENCH

MUST BE BACKFILLED AS QUICKLY AS POSSIBLE, AVOIDING COMPACTION. TREE LIMBS MUST BE CUT BACK IN PROPORTION TO THE ROOT AREA LOSS.

13. ON-SITE TREES TO BE SAVED SHALL BE PREPARED FOR CONSTRUCTION BY APPROPRIATE CROWN AND DEEP ROOTING FERTILIZATION AND PROTECTED BY APPROPRIATE FENCING. ALL TREES ARE TO BE DEEP ROOT FERTILIZED USING 16-32-16 SLOW RELEASE, WATER DISPERSIBLE @ 15 LBS. PER 100 GALLON OR

14. REFERENCE PLAN: "FINAL TITLE PLAN" PLAN OF SUBDIVISION FOR "BLOOMINGDALE COURT" 212 & 216 BLOOMINGDALE AVENUE, RADNOR TOWNSHIP, DELAWARE COUNTY. PA., PREPARED BY EDWARD B. WALSH & ASSOCIATES, INC. DATED 06-12-2008 PROJECT NUMBER 3449.

15. THE APPLICANT IS RESPONSIBLE FOR RAISING THE EXISTING CURB ALONG THE PROPERTY FRONTAGE TO A UNIFORM HEIGHT PER THE DETAIL ON SHEET 6. 16. THE MAINTENANCE FOR THE PROPOSED ACCESS AND UTILITY EASEMENT SHALL BE SHARED EQUALLY BETWEEN LOT 1, 3, & 4.

ZONING DISTRICT R-5: (RESIDENCE DISTRICT)

55' MIN BUILDING AREA 35% MAX FRONT YARD 25' MIN SIDE YARD 10' MIN REAR YARD 20' MIN BUILDING HEIGHT 35'/20' ACCESSORY IMPERVIOUS COVERAGE 40% MAX

FOR MORE DETAILED INFORMATION YOUR ATTENTION IS CALLED TO THE ZONING CODE OF RADNOR TOWNSHIP, LATEST EDITION.

THIS PROJECT IS BEING DEVELOPED IN THE DARBY CREEK WATERSHED DISTRICT A.

212 BLOOMINGDALE AVENUE:

TAX PARCEL NUMBER: 36060328400

BLOCK AND UNIT NUMBER:

BLOCK 12, UNIT 459000 SOURCE OF DEED:

BOOK 5248 PAGE 1733

TOTAL AREA: (TO THE TITLE LINE) 35,444.24 SF (0.8137 ACRES)

NET AREA: (TO THE ROAD R/W) 30,475.37 SF (0.6996 ACRES)

216 BLOOMINGDALE AVENUE:

TAX PARCEL NUMBER: 36060328500

BLOCK AND UNIT NUMBER: BLOCK 12, UNIT 458000

BOOK 5248 PAGE 1733

TOTAL AREA: (TO THE TITLE LINE) CONTIGUOUS

NET AREA: (TO THE ROAD R/W)

EXISTING IMPERVIOUS COVERAGE TO REMAIN (LOT 2): PORCH 217 SF

EXISTING IMPERVIOUS COVERAGE TO BE REMOVED:

730 SF WALL & MISC. 105 SF 2,948 SF (9.67%) TOTAL

2,030 SF (6.66%) 1.235 SF WALK & MISC. 3,361 SF (11.03%) TOTAL

PROPOSED IMPERVIOUS COVERAGE:

DRIVEWAY 3,136 SF PATIO 276 SF WALK 184 SF TOTAL 8,048 SF (26.41%)

4,452 SF (14.61%)

TOTAL IMPERVIOUS COVERAGE: TOTAL=14,357 SF (47.11%) TO BE REMOVED=3,361 SF

NEW IMPERVIOUS AREA=10,996 SF (36.08%) (20.83% BUILDING

STATE OF PENNSYLVANIA COUNTY OF DELAWARE SS

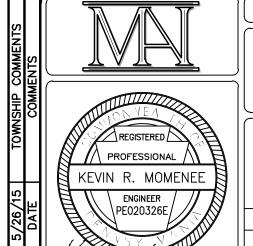
MY COMMISSION EXPIRES:__

ON THIS _____ DAY OF _____, 20__, BEFORE ME A NOTARY PUBLIC IN AND FOR THE COMMONWEALTH OF PENNSYLVANIA, THE UNDERSIGNED OFFICER, PERSONALLY _, WHO ACKNOWLEDGED HIMSELF TO BE THE OWNER OF THE PROPERTY SHOWN ON THIS PLAN AND THE SUBDIVISION PLAN THEREOF WAS MADE AT HIS DIRECTION AND THAT HE ACKNOWLEDGES THE SAME TO BE HIS ACT AND PLAN AND DESIRES THE SAME TO BE RECORDED AS SUCH ACCORDING TO LAW.

WITNESS MY HAND AND SEAL THE DAY AND DATE ABOVE WRITTEN.

(SIGNATURE)

NOTARY PUBLIC OR OTHER OFFICER



RECORD PLAN: (SHEET 1 OF 1 FOR RECORDING)

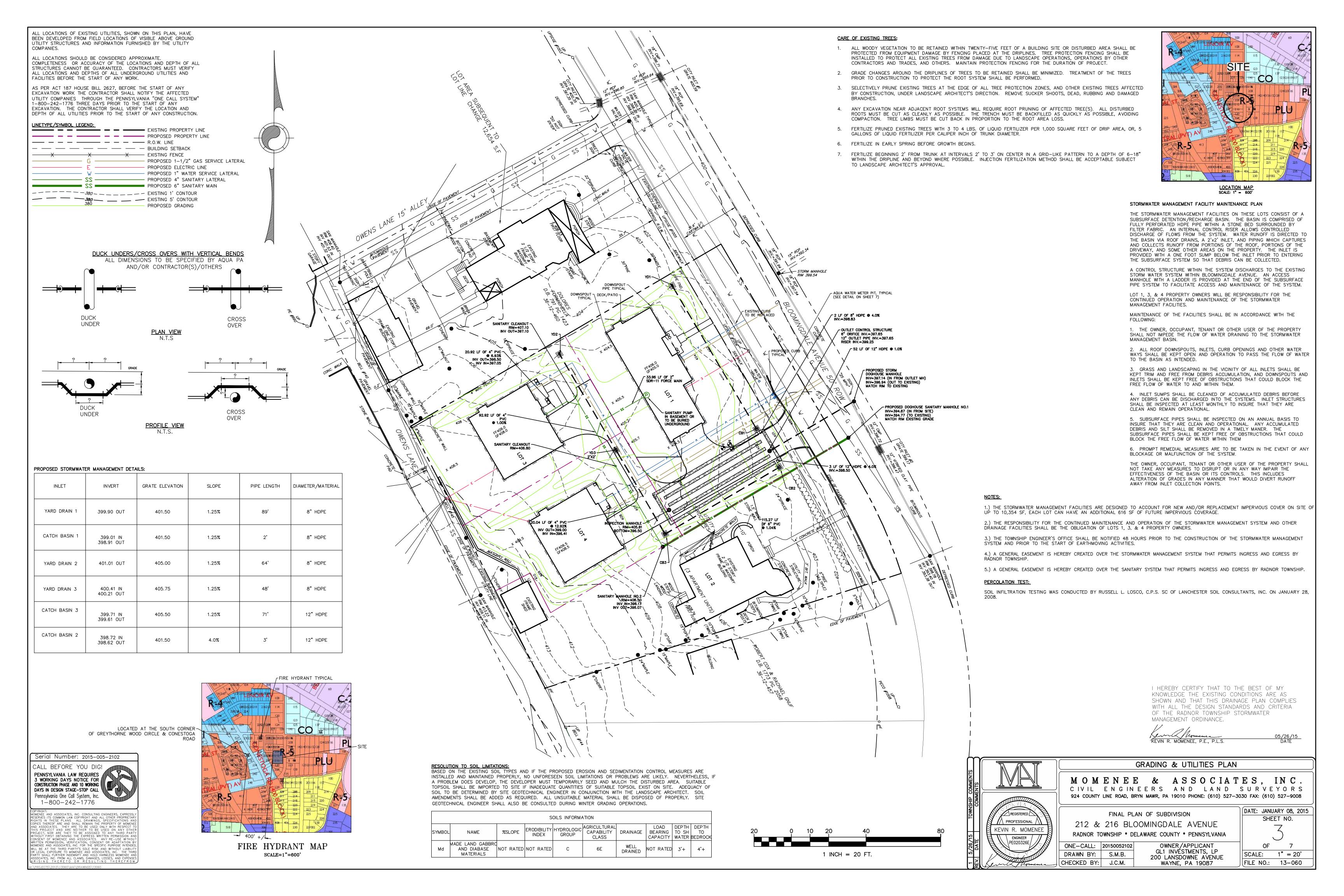
MOMENEE & ASSOCIATES, INC. CIVIL ENGINEERS AND LAND SURVEYORS 924 COUNTY LINE ROAD, BRYN MAWR, PA 19010 PHONE: (610) 527-3030 FAX: (610) 527-9008

FINAL PLAN OF SUBDIVISION 212 & 216 BLOOMINGDALE AVENUE

RADNOR TOWNSHIP * DELAWARE COUNTY * PENNSYLVANIA OWNER/APPLICANT ONE-CALL: |20150052102| GL1 INVÉSTMENTS, LP DRAWN BY: | S.M.B. 200 LANSDOWNE AVENUE CHECKED BY: J.C.M. WAYNE. PA 19087

DATE: JANUARY 08, 2015 SHEET NO. OF SCALE: 1" = 20'FILE NO.: 13-060

1 INCH = 20 FT.



ALL LOCATIONS OF EXISTING UTILITIES, SHOWN ON THIS PLAN, HAVE BEEN DEVELOPED FROM FIELD LOCATIONS OF VISIBLE ABOVE GROUND UTILITY STRUCTURES AND INFORMATION FURNISHED BY THE UTILITY

ALL LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. COMPLETENESS OR ACCURACY OF THE LOCATIONS AND DEPTH OF ALL STRUCTURES CANNOT BE GUARANTEED. CONTRACTORS MUST VERIFY ALL LOCATIONS AND DEPTHS OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE THE START OF ANY WORK.

AS PER ACT 187 HOUSE BILL 2627, BEFORE THE START OF ANY EXCAVATION WORK THE CONTRACTOR SHALL NOTIFY THE AFFECTED UTILITY COMPANIES THROUGH THE PENNSYLVANIA "ONE CALL SYSTEM" -800-242-1776 THREE DAYS PRIOR TO THE START OF ANY EXCAVATION. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF ANY CONSTRUCTION.

MAINTENANCE OF TEMPORARY SEDIMENTATION CONTROL STRUCTURES

BY THE CONSERVATION DISTRICT OR TOWNSHIP ENGINEER.

STABILIZED CONSTRUCTION ENTRANCE: THE STABILIZED CONSTRUCTION ENTRANCES ARE TO BE CONSTRUCTED PER THE DETAIL. THE STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED SO THAT TIRE SCRUBBING ACTIVITY DOES NOT BECOME INEFFECTIVE. ANY BUILDUP OF MUD OR SOIL ON THE STREET SHALL BE CLEANED AT THE END OF EACH WORKING DAY.

INLET SILT TRAPS: INLET SILT TRAPS SHALL BE CONSTRUCTED PER THE DETAIL AND CLEANED AFTER EACH STORM EVENT OR AS DIRECTED

SILT FENCE: SILT FENCE SHALL BE INSTALLED PER THE DETAIL WITH ROCK FILTER OUTLETS PROVIDED EVERY 100 FEET AND AT EXISTING AND GRADED LOW POINTS. SEDIMENT SHALL BE REMOVED FROM SILT FENCES WHEN IT REACHES 1/2 THE FENCE HEIGHT OR AS DIRECTED BY THE CONSERVATION DISTRICT OR TOWNSHIP ENGINEER. SILT FENCING WHICH AS BEEN UNDERMINED OR TOPPED WILL BE REPLACED WITH ROCK FILTER OUTLETS IMMEDIATELY.

SEDIMENT DISPOSAL: SILT REMOVED FROM TEMPORARY SEDIMENT CONTROL STRUCTURES SHALL BE DISPOSED OF ON-SITE IN LANDSCAPED AREAS LOCATED OUTSIDE OF FLOOD PLAINS, WETLANDS, STEEP SLOPES AND DRAINAGE SWALES.

DUST CONTROL: DUST AND OTHER PARTICULATES SHALL BE KEPT WITHIN TOLERABLE LIMITS BY USING WATER. APPLICATION SHALL BE AS NEEDED OR AS DIRECTED BY THE TOWNSHIP ENGINEER OR THE CONSERVATION DISTRICT.

PLACING TOPSOIL OR TOPSOIL MIXTURE

PREPARATION OF AREAS TO BE TOPSOILED

GRADE THE AREAS TO BE COVERED BY TOPSOIL. USING ACCEPTABLE METHODS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE PLACING HE TOPSOIL. REMOVE STONES AND OTHER FOREIGN MATERIAL 2 INCHES OR LARGER IN DIMENSION. REMOVE AND SATISFACTORILY DISPOSE OF UNSUITABLE AND SURPLUS MATERIAL.

PLACING AND SPREADING TOPSOIL

PLACE TOPSOIL ON THE PREPARED AREAS AND, UNLESS OTHERWISE NDICATED, SPREAD AND COMPACT TO A 4-INCH UNIFORM DEPTH \pm 1 /2 INCHES. COMPACT WITH A ROLLER WEIGHING NOT OVER 120 POUNDS PER FOOT WIDTH OF ROLLER OR BY OTHER ACCEPTABLE METHODS, AS DIRECTED. REMOVE OVERDEPTH TOPSOIL, UNLESS THERWISE AGREED UPON IN WRITING. DO NOT PLACE TOPSOIL IN A WET OR FROZEN CONDITION.

SEEDING SPECIFICATIONS:

WHERE DENUDED AREAS ARE DESIRED TO BE LAWN: PERFORM ALL CULTURAL OPERATION AT RIGHT ANGLES TO

APPLY LIME ACCORDING TO TEST OR AT THE RATE OF 25 LBS. F GROUND LIMESTONE PER 1,000 SQ. FT.

APPLY FERTILIZER ACCORDING TO SOIL TEST OR WORK IN DEEPLY 20 LBS. OF D-20-20 OR EQUIVALENT PER 1,000 SQ. FT. AND AT THE TIME OF SEEDING, WORK INTO THE SURFACE 10 LBS. OF 10-10-10 OR EQUIVALENT PER 1,000 SQ. T. OR OTHER APPROVED MIXTURE.

SMOOTH AND FIRM SEEDED AREA PRIOR TO SEEDING.

SEED USING A MIXTURE OF 60% PENNSTAR KENTUCKY BLUEGRASS, 0% PENNLAWN RED FESCUE AND 10% PENNFINE PERENNIAL RYEGRASS FITHE RATE OF FIVE (5) POUNDS PER 1,000 SQ. FT. OR OTHER APPROVED MIXTURE.

COVER GRASS AND LEGUME SEEDS WITH 1/4" OF SOIL WITH SOIL EQUIPMENT, MULCH, USING 2 BALES/1,000 SQ. FT.

MOW AS REQUIRED.

WHERE SLOPES EXCEED 25% JUTE NETTING OR OTHER PPROVED (EQUAL) SLOPE STABILIZATION MEASURES SHALL BE ILIZED. IN ADDÍTION, THE SEEDING SPECIFICATIONS FOR STEEP SLOPES SHALL BE INCREASED TO INCLUDE 3 LBS/1,000 SQ. FT. OF ANNUAL RYEGRASS FOR RAPID VEGETAL ESTABLISHMENT.

HYDROSEEDING SPECIFICATIONS

DEFINITION: STABILIZING SEDIMENT PRODUCING AND SEVERELY ERODED AREAS BY ESTABLISHING PERMANENT GRASS

PURPOSE: TO PROVIDE PERMANENT VEGETATIVE COVER TO CONTROL RAPID RUN-OFF AND EROSION.

PROCEDURE: SURFACE TO BE HYDRO-SEEDED SHALL BE CLEANED OF ALL DEBRIS AND OTHER MATTER HARMFUL TO UNIFORM GERMINATES. A WATER-SLURRY MIXTURE COMPOSED OF THE BELOW MENTIONED "MATERIALS" SHALL BE SPRAYED

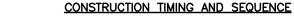
UNIFORMLY OVER THE AREAS TO BE HYDRO-SEEDED. MATERIALS:

APPLICATION RATE

PERMANENT SEE	DING			
NAME	DESCRIPTION	(PER ACRE)		
1) SEED MIXTURE % BY WEIGHT	SÉED MIXTURE 30% PENNLAWN RED RESCUE 10% PENNFINE PERRENIAL RYEGRASS 2) 10-20-20 COMMERCIAL			
2) COMMERCIAL FERTILIZER				
3) LIME	GROUND AGRICULTURAL LIMESTONE (MAY BE APPLIED SEPARATELY)	2 TONS		
4) MULCH	HAY OR STRAW	3 TONS		
5) SOIL STABILIZER				
TEMPORARY				
1) SEED	ANNUAL RYEGRASS (95% PURE)	40 LBS.		
2) COMMERCIAL FERTILIZER	5-5-5	1,000 LBS.		
3) LIME	GROUND AGRICULTURAL LIMESTONE (MAY BE APPLIED SEPARATELY)	1 TON		
4) MULCH	HAY OR STRAW	3 TONS		

: and associates, inc. consulting engineers, exp its common law copyright and all other propi i these plans. All drawings, specification

Serial Number: 2015-005-2102 CALL BEFORE YOU DIG! PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE-STOP CALL Pennsylvania One Call System, Inc. 1-800-242-1776



- NOTE: THE TOWNSHIP ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO THE INSTALLATION OF THE SEEPAGE BED AND PRIOR TO THE START OF ANY EARTHMOVING ACTIVITIES.
- 01. NOTIFY THE TOWNSHIP THAT CONSTRUCTION IS GOING TO COMMENCE. ANTICIPATED DATE: FALL 2015.
- 02. INSTALL TREE PROTECTION AS INDICATED ON THE PLAN.
- 03. INSTALL SILT FENCE AS SHOWN ON THE PLAN AND ON THE DOWNHILL SLOPE OF ANY EXCAVATION OR ANTICIPATED DISTURBANCE.
- 04. INSTALL TIRE CLEANER, PROVIDE MATTING AND HOSE FOR CLEANING, IF THIS METHOD PROVES INEFFECTIVE INSTALL STABILIZED CONSTRUCTION ENTRANCE, CONSTRUCTION ENTRANCES ARE TO BE USED BY ALL VEHICLES
- 05. PRIOR TO EARTH DISTURBANCE, NOTIFY THE TOWNSHIP ENGINEER THAT CONSTRUCTION IS GOING TO BEGIN.
- 06. ONCE THE EROSION AND SEDIMENT CONTROLS ARE IN PLACE AND FUNCTIONING, BEGIN DEMOLITION OF THE RESIDENCE, GARAGE, AND THE OTHER IMPERVIOUS FEATURES DESIGNATED FOR REMOVAL. ALL CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN APPROVED MANNER.
- 07. CLEAR AND GRUB THE AREAS AS NECESSARY WITHIN THE LIMITS OF DISTURBANCE OF EXISTING VEGETATION. STRIP TOPSOIL FROM AREAS OF CONSTRUCTION AND STOCKPILE SUITABLE MATERIAL FOR FUTURE USE. UNSUITABLE MATERIAL SHALL BE DISPOSED OF PROPERLY. SURROUND TOPSOIL WITH SILT FENCE AND SEED TO ESTABLISH TEMPORARY
- 08. EXCAVATE FOR AND BEGIN TO CONSTRUCT THE FOUNDATIONS FOR THE NEW RESIDENCE. UPON COMPLETION OF FOUNDATION WALLS, BACKFILL FOUNDATIONS AND ROUGH GRADE AROUND THE HOUSE. ANY GRADED OR DISTURBED AREA MUST BE TEMPORARILY SEEDED IF NO FURTHER EARTH MOVING IS ANTICIPATED IMMEDIATELY. USE ANY ADDITIONAL EXCAVATED MATERIAL FROM THE NEW FOUNDATION TO BACKFILL THE EXISTING
- 09. CONTINUE WITH BUILDING CONSTRUCTION AND ROUGH GRADE THE SITE. INSTALL UTILITIES AS NECESSARY.
- 10. CONCURRENT WITH THE BUILDING CONSTRUCTION INSTALL THE ROOF RAINWATER COLLECTION SYSTEM, INLET, SUMP BOX, AND CONVEYANCE PIPING. PLACE INLET PROTECTION ON THE INLET.
- 11. INSPECT SEDIMENT BARRIERS FREQUENTLY, ESPECIALLY AFTER HEAVY STORMS. REPLACE AND REPAIR SEDIMENT BARRIERS AS NECESSARY.
- 12. UPON FINAL STABILIZATION OF THE CONTRIBUTORY AREA, INSTALL PERMANENT STORMWATER MANAGEMENT SYSTEM, AND JUNCTION BOX. CONNECT THE ROOF DRAINS AND INLET TO THE SYSTEM, AND CONNECT THE SYSTEM TO THE EXISTING STORM SEWER.
- 13. INSTALL FINAL BINDER AND WEARING COURSES ON THE NEW DRIVEWAY
- 14. FINAL GRADE DENUDED AREAS, SPREAD STOCKPILED TOPSOIL AND SEED GRADED AREAS TO REESTABLISH PERMANENT VEGETATION. STABILIZE SLOPES IN EXCESS OF 4:1 WITH SOD OR EROSION CONTROL NETTING
- 15. INSTALL FINAL LANDSCAPE FEATURES, AND COMPLETE CONSTRUCTION.
- 16. UPON PERMANENT STABILIZATION, REMOVE THE SEDIMENT BARRIERS. IMMEDIATELY SEED ANY DENUDED AREAS DUE TO THEIR REMOVAL.
- 17. CONSTRUCTION COMPLETED. ANTICIPATED DATE: SPRING 2017.

20 241718-20

) NEWLY GRADED SLOPES TWENTY FIVE PERCENT (25% OR GREATER) SHALL BE SODDED OR STABILIZED WITH EROSION CONTROL NETTING.

GEOTEXTILE FABRIC SHALL BE CLASS 1. GEOTEXTILE FABRIC IN ACCORDANCE WITH PENNDOT SPECIFICATION FROM 408. THE TYPE AND/OR THICKNESS SHALL BE DUPONT TYPAR #3401, AMOCO PROPEX #4545 OR APPROVED EQUAL OR AS OTHERWISE INDICATED ON THE

3) TO ALL AREA WHICH REMAIN DISTURBED FOR MORE THAN 20 DAYS AND WILL BE SUBJECT TO THE ACTION OF EARTHMOVING AND OTHER EQUIPMENT, APPLY A MULCH (WOODCHIP-20 TONS PER ACRE; HAY OR STRAW-3 TONS PER ACRE). ALL OTHER DISTURBED AREAS REMAINING OPEN FOR MORE THAN 20 DAYS SHALL BE TEMPORARILY SEEDED AND

4) ALL TREES AND BRUSH WITHIN THE SIGHT TRIANGLE SHALL BE TRIMMED AND/OR REMOVED AS NECESSARY TO OBTAIN CLEAR SIGHT DISTANCE WITH THE APPROVAL OF THE TOWNSHIP ARBORIST.

- SHOULD UNFORESEEN EROSIVE CONDITIONS DEVELOP DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ACTION TO REMEDY SUCH CONDITIONS AND TO PREVENT DAMAGE TO ADJACENT PROPERTIES AS A RESULT OF INCREASED RUNOFF/AND OR SEDIMENT DISPLACEMENT. STOCKPILES OF WOODCHIPS, HAY BALES, CRUSHED STONE AND OTHER MULCHES SHALL BE HELD IN READINESS TO DEAL IMMEDIATELY WITH EMERGENCY PROBLEMS OF EROSION.
- THE CONTRACTOR SHALL, BY SCHEDULING THE CONSTRUCTION, UTILIZE NEW PLANTINGS AND PROPERLY INSTALL EROSION CONTROL FENCING, HAY BALES AND OTHER EROSION CONTROL MEASURES TO MINIMIZE EROSION DAMAGE.
- 7) ANY DISTURBED AREA ON WHICH ACTIVITY HAS CEASED AND WHICH WILL REMAIN EXPOSED FOR MORE THAN 20 DAYS MUST BE SEEDED AND MULCHED IMMEDIATELY. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE RECOMMENDED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURED WITHIN ONE YEAR MAY BE SEEDED AND MULCHED WITH A QUICK GROWING TEMPORARY SEEDING MIXTURE AND MULCH. DISTURBED AREAS WHICH ARE EITHER AT FINISHED GRADE OR WILL NOT BE REDISTURED WITHIN ONE YEAR MUST BE SEEDED AND MULCHED WITH A PERMANENT SEED MIXTURE AND MULCH. DIVERSIONS, CHANNELS, SEDIMENTATION BASINS, SEDIMENT TRAPS, AND STOCKPILES MUST BE SEEDED AND MULCHED IMMEDIATELY.
- 8) A ROUTINE "END-OF-DAY-CHECK" SHALL BE MADE DURING CONSTRUCTION TO MAKE SURE THAT ALL CONTROL MEASURES ARE WORKING PROPERLY. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL DESIGN, IMPLEMENT, AND MAINTAIN CONTROL MEASURES WHICH PREVENT ACCELERATED EROSION AND SEDIMENTATION. THERE SHALL BE NO ADVERSE DISCHARGE OF THE SEDIMENT OR OTHE SOLID MATERIALS FROM THE SITE AS THE RESULT OF STORMWATER
- 9) TEMPORARY EROSION CONTROL MEASURES MAY BE REMOVED ONLY AFTER THE CONSTRUCTION AREA AND CONTAINED SILT IS STABILIZED AND THE LAWN AREA ESTABLISHED.

LINETYPE/SYMBOL LEGEND: - EXISTING PROPERTY LINE PROPOSED PROPERTY LINE — — — — — R.O.W. LINE — — — — — BUILDING SETBACK

X EXISTING FENCE PROPOSED 1 1/2" GAS SERVICE LATERAL PROPOSED ELECTRIC LINE - PROPOSED 1" WATER SERVICE LATERAL - PROPOSED 4" SANITARY LATERAL PROPOSED 6" SANITARY MAIN _____ EXISTING 1' CONTOUR . — — — 380— — — EXISTING 5' CONTOUR PROPOSED GRADING LIMITS OF DISTURBANCE

FILTREXX DIVERSION BERM

SILT FENCE NUMBER FLOW PATH

RESOLUTION TO SOIL LIMITATIONS: BASED ON THE EXISTING SOIL TYPES AND IF THE PROPOSED EROSION AND SEDIMENTATION CONTROL MEASURES ARE INSTALLED AND MAINTAINED PROPERLY, NO UNFORESEEN SOIL LIMITATIONS OR PROBLEMS ARE LIKELY. NEVERTHELESS, IF A PROBLEM DOES DEVELOP. THE DEVELOPER MUST TEMPORARILY SEED AND MULCH THE DISTURBED AREA. SUITABLE TOPSOIL SHALL BE IMPORTED TO SITE IF INADEQUATE QUANTITIES OF SUITABLE TOPSOIL EXIST ON SITE. ADEQUACY OF SOIL TO BE DETERMINED BY SITE GEOTECHNICAL ENGINEER IN CONJUNCTION WITH THE LANDSCAPE ARCHITECT. SOIL AMENDMENTS SHALL BE ADDED AS REQUIRED. ALL UNSUITABLE MATERIAL SHALL BE DISPOSED OF PROPERLY. SITE GEOTECHNICAL ENGINEER SHALL ALSO BE CONSULTED DURING WINTER GRADING OPERATIONS.

SOIL EROSION CONTROL DETAILS

DESCRIPTION

18" FILTREXX

DIVERSION BERM

18" COMPOST SOCK

OR 30" SILT FENCE

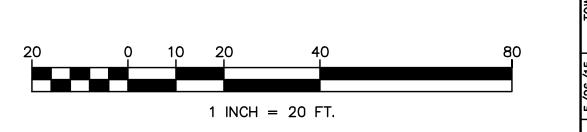
18" COMPOST SOCK OR 30" SILT FENCE

18" COMPOST SOCK OR 30" SILT FENCE

18" FILTREXX DIVERSION BERM

CONTROL NUMBER

	SOILS INFORMATION										
SYMBOL	NAME	%SLOPE	ERODIBILITY INDEX	HYDROLOGIC GROUP	AGRICULTURAL CAPABILITY CLASS	DRAINAGE	LOAD BEARING CAPACITY	DEPTH TO SH WATER	DEPTH TO BEDROCK		
Md	MADE LAND GABBRO AND DIABASE MATERIALS		NOT RATED	С	6E	WELL DRAINED	NOT RATED	3'+	4'+		



→ STORM MANHOLE

DECK/PATIO -

-33.96 LF OF 2" SDR-11 FORCE MAI

TYPICAL

PROTECTION TYPICAL

SANITARY CLEANOU

SANITARY CLEANOUT -RIM=406.80

20.92 LF OF 4" PVC ~

INV IN=397.05

- AQUA WATER METER PIT, TYPICAL

OUTLET CONTROL STRUCTURE

/ 52 LF OF 12" HDPE ● 1.0%

PROPOSED STORM DOGHOUSE MANHOLE

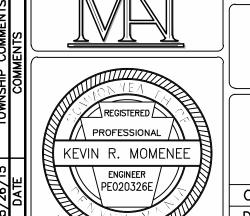
INV=396.94 (OUT TO EXISTING)
MATCH RIM TO EXISTING

PROPOSED DOGHOUSE SANITARY MANHOLE NO.1

INV=394.87 (IN FROM SITE) INV=394.77 (TO EXISTING)
MATCH RIM EXISTING GRADE

6" ORIFICE INV.=397.65 12" OUTLET PIPE INV.=397.65 RISER INV.=399.25

-2 LF OF 8" HDPE ● 4.0% INV.=398.83



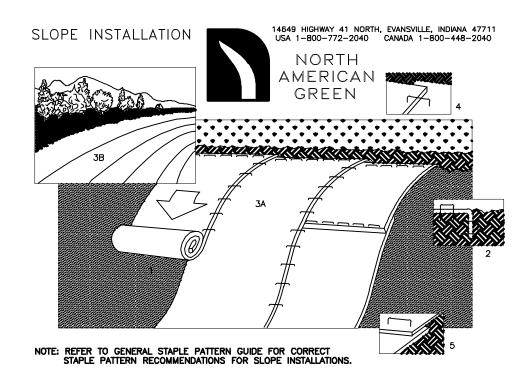
EROSION & SEDIMENT CONTROL PLAN

MOMENEE & ASSOCIATES, INC. CIVIL ENGINEERS AND LAND SURVEYORS 924 COUNTY LINE ROAD, BRYN MAWR, PA 19010 PHONE: (610) 527-3030 FAX: (610) 527-9008

FINAL PLAN OF SUBDIVISION 212 & 216 BLOOMINGDALE AVENUE

	RADNOR TOWNSHIP * DELAWARE COUNTY * PENNSYLV		
	ONE-CALL:	20150052102	
	DRAWN BY:	S.M.B.	GL1 INVÉSTMENTS, LF 200 LANSDOWNE AVEN
]	CHECKED BY:	J.C.M.	WAYNE, PA 19087

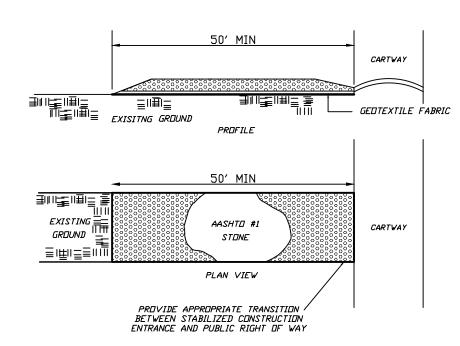
DATE: JANUARY 08, 2015 SHEET NO. OF 1" = 20'SCALE: FILE NO.: 13-060



 PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH.
 BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

 POLL THE BLANKETS (A.) DOWN OR (R.) HODIZONTALLY ACROSS THE SLOPE.
- 3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE.4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
- WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.

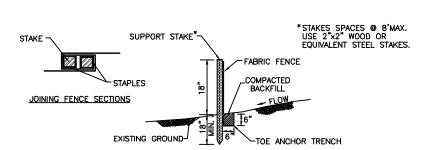


STABILIZED CONSTRUCTION ENTRANCE

NTS

- 1. THICKNESS NOT LESS THAN EIGHT (8) INCHES.

 2. WIDTH NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
- 3. WASHING WHEN NECESSARY, WHEELS SHALL BE CLEANED TO BE CLEANED TO REMOVED SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT—OF—WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DICH OR WATERCOURSE THROUGH USE OF SAND BACS CRAVEL BORDEN OF OF STAND BACS CRAVEL BORDEN.
- 4. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS—OF—WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS—OF—WAY MUST BE REMOVED IMMEDIATELY.

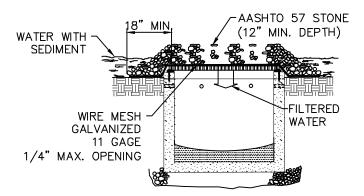


FILTER FABRIC FENCE MUST BE PLACED AT LEVEL GRADE. BOTH ENDS OF THE BARRIER MUST BE EXTENDED AT LEAST 8' UP SLOPE AT 45' TO THE MAIN BARRIER ALIGNMENT.

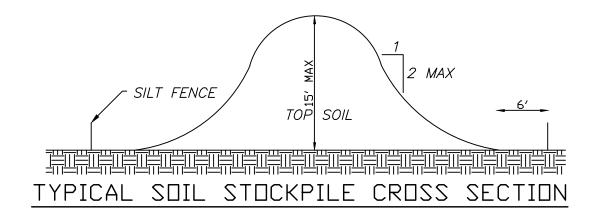
ANY SILT FENCING WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE REPLACED WITH ROCK FILTER OUTLETS IMMEDIATELY. SEE ROCK FILTER OUTLET DETAIL.

SEDIMENT MUST BE REMOVED WHERE ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT THE FENCE.

STANDARD FILTER FABRIC FENCE



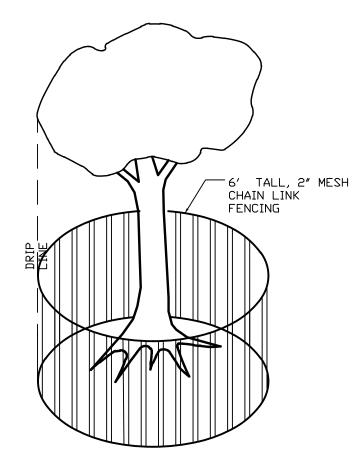
GRAVEL SEDIMENT FILTER FOR INLET N.T.S.



NOTE: SILT FENCE MUST COMPLETELY ENCIRCLE STOCKPILES

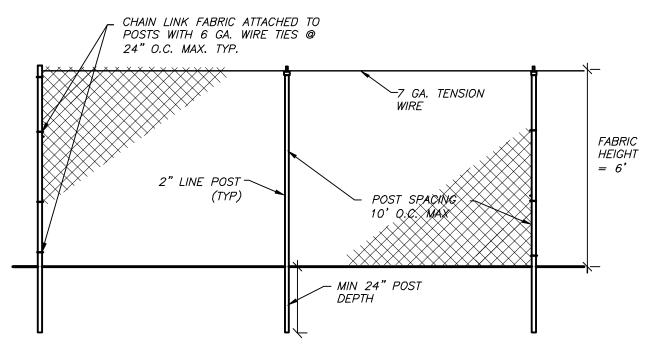
TOP SOIL PROTECTION:

TOPSOIL SHALL NOT BE REMOVED FROM THE DEVELOPMENT SITE OR USED AS FILL. TOPSOIL SHALL BE REMOVED FROM THE AREAS OF CONSTRUCTION AND STORED SEPARATELY THE TOPSOIL SHALL BE STABILIZED TO MINIMIZE EROSION DURING STORAGE. UPON COMPLETION OF CONSTRUCTION, THE TOPSOIL SHALL BE UNIFORMLY REDISTRIBUTED ON THE SITE.



TREE PROTECTION FENCE PLACEMENT

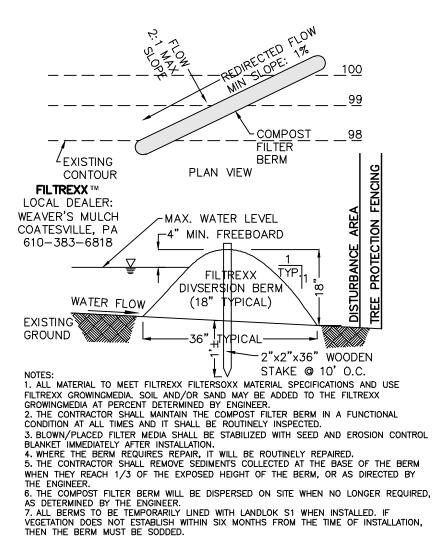
ALL WOODY VEGETATION TO BE RETAINED WITHIN 25 FEET OF A BUILDING SITE, PARKING AREA, DRIVEWAY OR OTHER PROPOSED IMPROVEMENT SHALL BE PROTECTED FROM EQUIPMENT DAMAGE BY FENCING OR OTHER EFFECTIVE BARRIERS APPROVED BY THE TOWNSHIP ENGINEER AND/OR ARBORIST. FENCING OR BARRIERS SHALL BE PLACED AS MUCH AS IS PRACTICAL AT THE DRIPLINE. LOCATION MAY BE ALTERED TO AVOID INTERFERENCE WITH PROPOSED GRADING AND IMPROVEMENTS AS SHOWN ON THE PLANS. BARRIER LOCATION SHALL BE SUBJECT TO APPROVAL BY THE TOWNSHIP ENGINEER AND/OR ARBORIST.



- 1. PROTECTION BARRIERS SHALL BE 6 FEET HIGH, CONSTRUCTED OF 2" CHAIN LINK MESH FABRIC.
- 2. FABRIC SHALL BE SECURED TO 2" POSTS WITH 6 GA. ALUMINUM WIRE TIES AT 24" O.C.
- 3. POSTS SHALL BE A MINIMUM OF 2 FEET IN THE GROUND AND SPACED 10 FEET ON CENTER MAX.

 4. PLASTIC ZIP—TIES MAY NOT BE USED TO SECURE FABRIC TO POSTS.

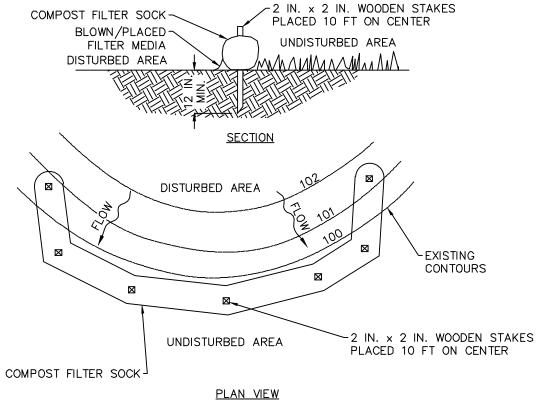
TREE PROTECTION BARRIER FENCING



TEMPORARY FILTREXX DIVERSION BERM

N.T.S.

COMPOST STANDARDS (PER PENNSYLVANIA DEP EROSION AND SEDIMENT POLLUTION CONTROL MANUAL TABLE 4.2)				
ORGANIC MATTER CONTENT	80% - 100% (DRY WEIGHT BASIS)			
ORGANIC PORTION	FIBROUS AND ELONGATED			
рΗ	5.5 - 8.0			
MOISTURE CONTENT	35% - 55%			
PARTICLE SIZE	98% PASS THROUGH 1" SCREEN			
SOLUBLE SALT CONCENTRATION	5.0 dS/m (mmhos/cm) MAXIMUM			



- NOTES:

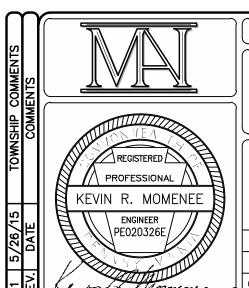
 1. SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.
- 2. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

 3. TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.
- 4. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
 5. COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT.
- DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

 6. BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED
- ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

 7. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

STANDARD CONSTRUCTION DETAIL #4-1
COMPOST FILTER SOCK
NOT TO SCALE



EROSION & SEDIMENT CONTROL DETAILS

MOMENEE & ASSOCIATES, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
924 COUNTY LINE ROAD, BRYN MAWR, PA 19010 PHONE: (610) 527-3030 FAX: (610) 527-9008

FINAL PLAN OF SUBDIVISION

212 & 216 BLOOMINGDALE AVENUE

RADNOR TOWNSHIP * DELAWARE COUNTY * PENNSYLVAN

RADNOR TOWNSHIP * DELAWARE COUNTY * PENNSYLVANIA

ONE—CALL: 20150052102

DRAWN BY: S.M.B.

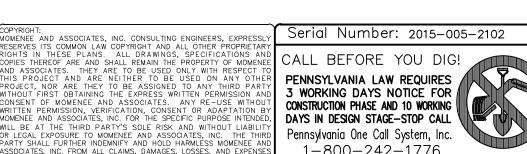
CHECKED BY: J.C.M.

OWNER/APPLICANT
GL1 INVESTMENTS, LP
200 LANSDOWNE AVENUE
WAYNE, PA 19087

OF 7
SCALE: AS NOTED
FILE NO.: 13-060

| DATE: JANUARY 08, 2015

SHEET NO.



Serial Number: 2015–005–2102

ALL BEFORE YOU DIG!

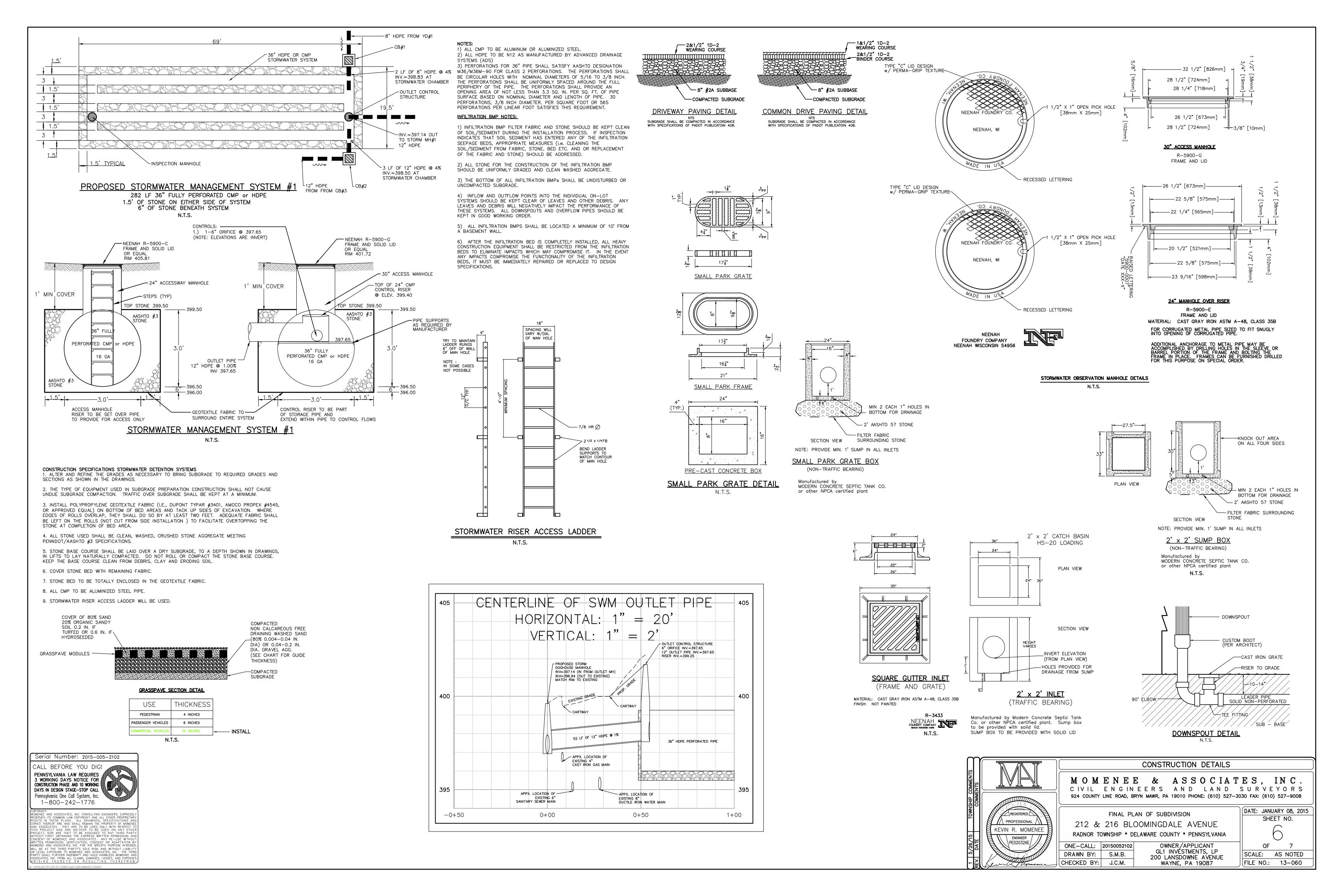
ENNSYLVANIA LAW REQUIRES

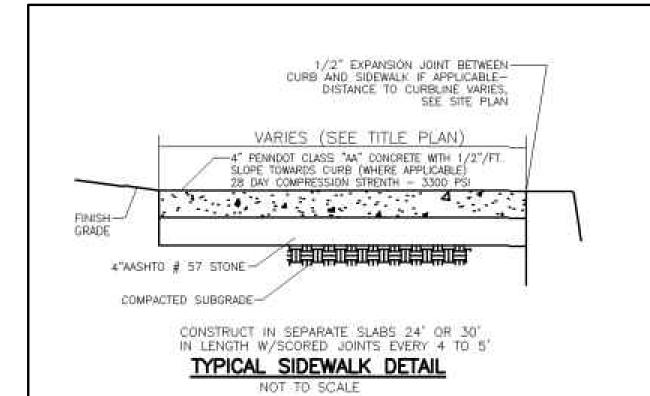
WORKING DAYS NOTICE FOR

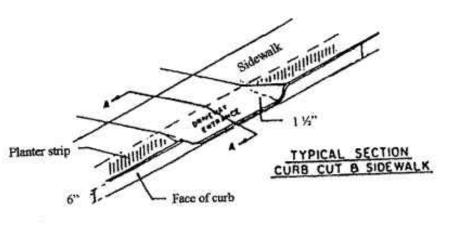
AYS IN DESIGN STAGE-STOP CALL

ennsylvania One Call System, Inc.

1–800–242–1776



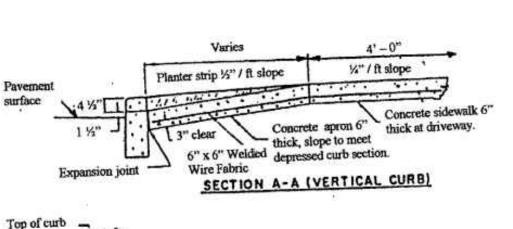


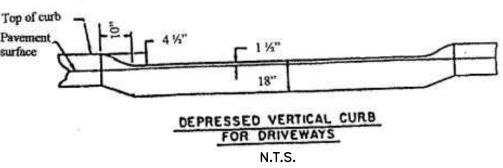


CHAIR (12" LONG)



RUBBLE & BLUE STONE CURB DETAIL





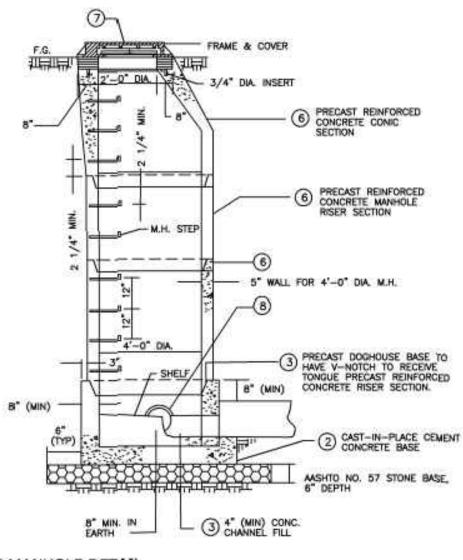
SANITARY SEWER DOGHOUSE MANHOLE CONSTRUCTION SPECIFICATIONS EXCAVATE AROUND EXISTING STORM SEWER MANHOLE AND MAIN. REMOVE EXISTING STORM MANHOLE. 2. CAST-IN-PLACE CEMENT CONCRETE BASE BENEATH EXISTING STORM SEWER AT LOCATION SHOWN.

3. INSTALL PRECAST DOGHOUSE RISER SECTION ON NEWLY CAST BASE. 4. INSTALL BASIN OUTLET PIPE INTO THE PRECAST OPENING IN THE MANHOLE WALL GROUT INSIDE AND OUTSIDE OF MANHOLE WALL AT PIPE INTERFACE WITH NON-SHRINK GROUT TO PROVIDE A

5. GROUT MANHOLE CHANNEL AROUND THE EXISTING STORM SEWER WITH CLASS 'A' CEMENT CONCRETE.

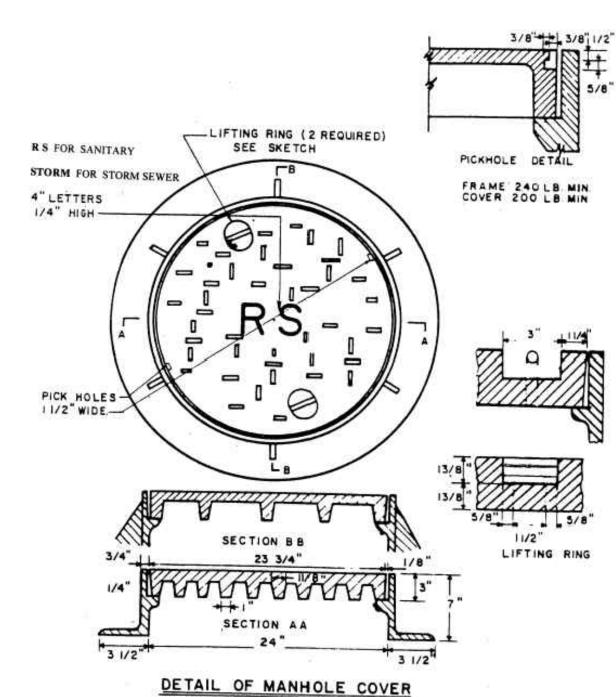
6. INSTALL REMAINING RISER SECTION(S) AND CONICAL TOP SECTION. 7. INSTALL CAST IRON FRAME AND COVER.

8. COMPLETELY REMOVE EXISTING SEWER PIPE TO THE LIMIT OF THE INSIDE WALL OF THE MANHOLE GROUT INSIDE AND OUTSIDE OF MANHOLE WALL AT PIPE INTERFACE WITH NON-SHRINK GROUT TO PROVIDE A WATERTIGHT SEAL.

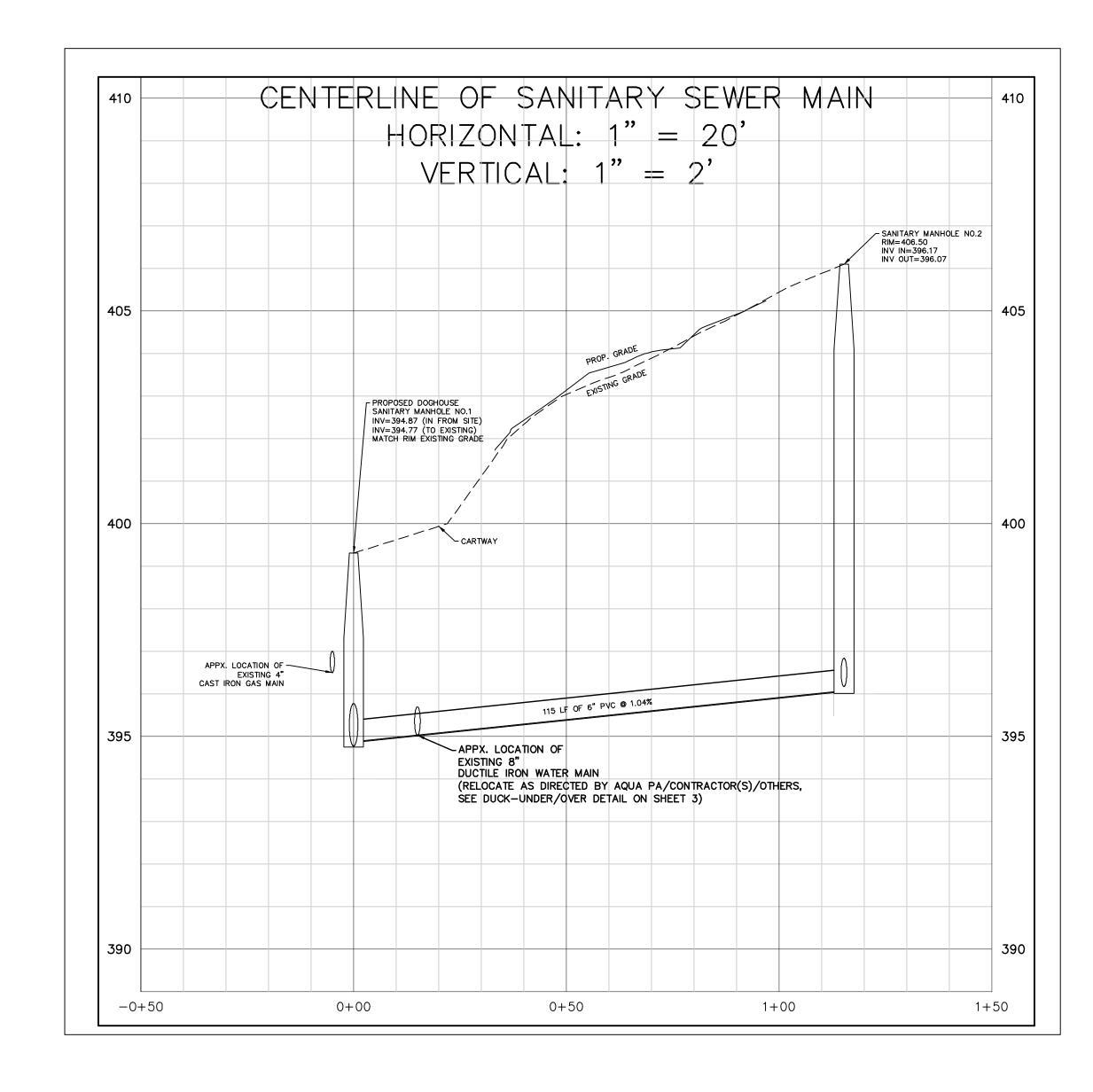


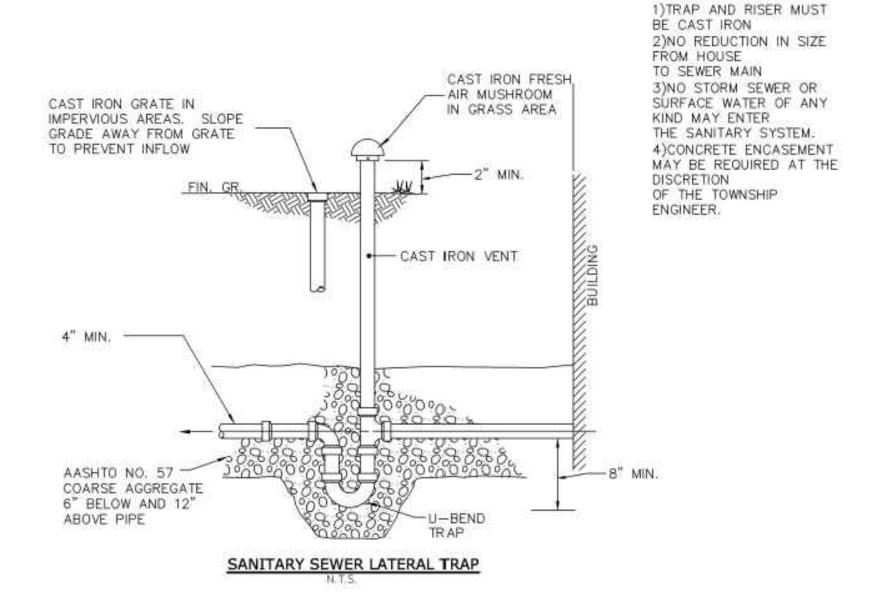
SANITARY SEWER DOGHOUSE MANHOLE DETAIL

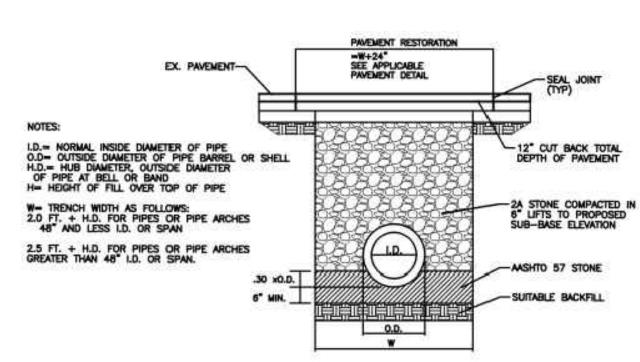
NOT TO SCALE



N.T.S.





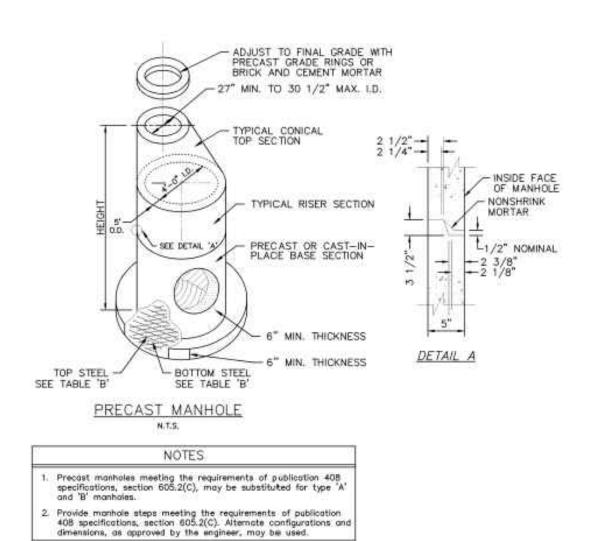


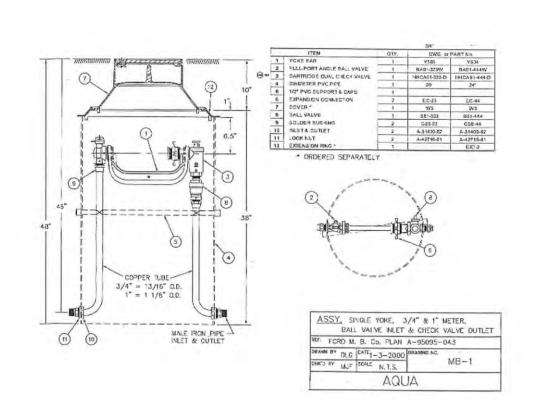
2. THE TOWNSHIP MUST BE NOTIFIED 24 HOURS PRIOR TO ANY STREET REPAIR.

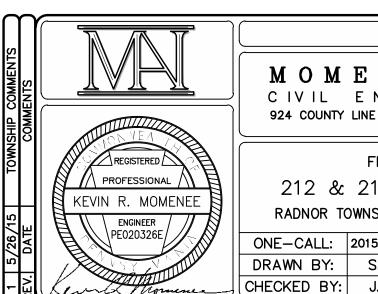
3. PIPE SHALL BE CENTERED IN TRENCH.

TRENCH RESTORATION, AND BACKFILL FOR PAVED AREAS

NOT TO SCALE









924 COUNTY LINE ROAD, BRYN MAWR, PA 19010 PHONE: (610) 527-3030 FAX: (610) 527-9008 DATE: JANUARY 08, 2015 FINAL PLAN OF SUBDIVISION SHEET NO. 212 & 216 BLOOMINGDALE AVENUE RADNOR TOWNSHIP * DELAWARE COUNTY * PENNSYLVANIA OF ONE-CALL: |20150052102 OWNER/APPLICANT GL1 INVÉSTMENTS, LP SCALE: AS NOTED S.M.B. 200 LANSDOWNE AVENUE FILE NO.: 13-060 CHECKED BY: J.C.M. WAYNE, PA 19087

