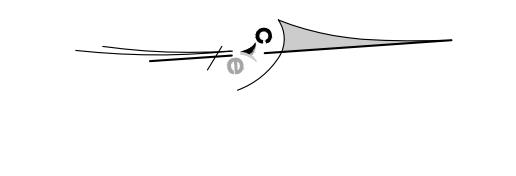
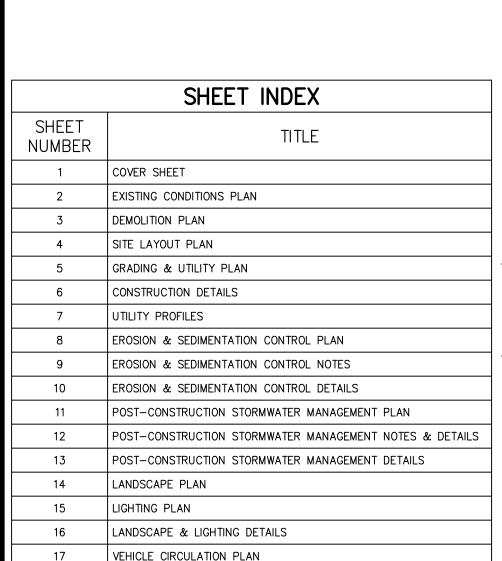
# PRELIMINARY LAND DEVELOPMENT PLANS

# GLENSIDE ELEMENTARY SCHOOL -BUILDING ADDITIONS & RENOVATIONS CHELTENHAM TOWNSHIP, MONTGOMERY COUNTY, PA





PRELIMINARY PLAN: NOT TO BE RECORDED.

### **WAIVER REQUEST:**

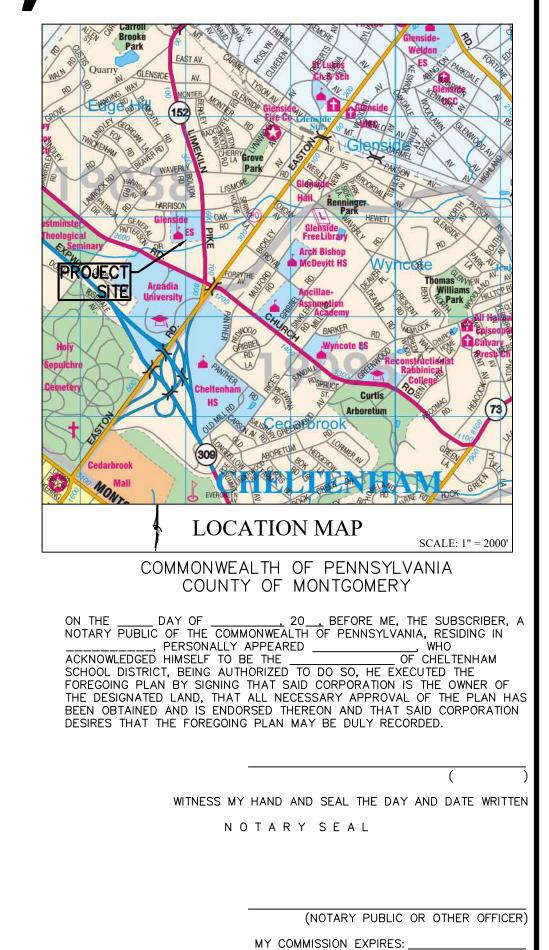
SECTION 260-15C(11)(B) OF THE CHELTENHAM TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE: A WAIVER IS REQUESTED FROM THIS SECTION OF THE ORDINANCE TO NOT PROVIDE THE LOCATIONS AND DESCRIPTIONS OF EXISTING BUILDINGS AND STRUCTURES LESS THAN 400 FEET BEYOND THE TRACT BOUNDARIES. THE SITE IS BORDERED BY RESIDENTIAL USES, SO THIS INFORMATION CONSISTS OF RESIDENTIAL BUILDINGS, DRIVEWAYS, ETC.



112 Moores Road, Suite 200, Malvern, PA 19355 610-644-4623 www.chesterv.com

HAROLD H. & VICTORIA G. LUKER PARCEL ID: 31-00-06436-00-4 DEED REF. 4367-405				
(SET)	AICHAEL W. & LENA V. WHITE PARCEL ID: 31-00-11005-00-7 DEED REF. 5078-2345 RICT R2  MICHAEL W. & LENA V. WHITE PARCEL ID: 31-00-11002-00-1 DEED REF. 5566-00220 LOT 17 PLAN NO. 1055  MICHAEL W. & LENA V. WHITE PARCEL ID: 31-00-11099-00-1 DEED REF. 5161-0206 LOT 15 PLAN NO. 1055  DEED REF. 5161-2206 LOT 15 PLAN NO. 1055	MARC V. LOIUS  PARCEL ID: 31-00-10996-00-7  DEED REF. 5503-01332  LOT 14 PLAN NO. 1055  DEED REF. 5693-02130  LOT 13 PLAN NO. 1055  PARCEL ID: 31-00-10993-  DEED REF. 5693-02130  LOT 13 PLAN NO. 1055  PARCEL ID: 31-00-10990-  DEED REF. 5693-02130  PARCEL ID: 31-00-10990-  DEED REF. 5890-01850  DEED REF. 5890-01850	CONCRETE SIDEWALK  50' 25' 25' 25'	
VICTORIA W. YANCEY PARCEL 10: -31-00-06433-00-7 DEED REF. 4952-01196	BRUSH & TREES	DEED REF. 5390-01856 LOT 12 PLAN NO. 1055  SHED  BRUSH & TREES	SIGN "SPEED LIMIT 15	CONCRETE MONUMENT ANGEL B. SANTOS PARCEL ID: 31-00-13438-00-4 DEED REF. 5563-01026
97FA 97FA 15FA 15FA	SOLOGY  RYCCO  R	DUMPSTER ENCLOSURE  CONC. MON. (FND)  A DESCRIPTION OF THE STATE OF TH	BRUSH & TREES 8-9AM & 3:15-4PM"  CONC. MON. (FND)  356.01 *XX" PA	1.30° SIGN "END SCHOOL ZONE"  MAG NAIL (SET)
BEAVER COLLEGE PARCEL ID: 31-00-06430-00-1 DEED REF. 5352-00963  WOODED AREA  11"BC	GRADE 1-4 SOFT PLAY AREA  GRADE 1-4 SOFT PLAY AREA  COOLING TOMER  COURS TOMER  COURS TOMER  COURS TOMER	ONE WAY 6"F		SHIRLEY & SIDNEY JAMISON PARCEL ID: 31-00-13441-00-1 DEED REF  MAG NAIL (SET)
FLOOD ZONE X   TOWNSHIP OF CHELTENHAM PARCEL ID: N\A DEED REF. 3073-98  KEVIN GROCE PARCEL ID: 31-00-06427-00-4 DEED REF. 5262-01077	DO NOT 10 FFP	PROPOSED BUILDING ADDITION (FFE: 290.0±) NO P RKING FIRE ZONE	DO NOT ENTER  3.5.5  BENCHMAR	KIM CHANG SIK & KIM SANG EUN PARCEL ID: 31-00-13435-00-7 DEED REF. 5603-02096
DISTRICT R2	GRADE 3-4 PAVED PLAY AREA  8"60" 8"60"	MT DROP OFF LO	SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN	<del> </del>
ROBERT JR. & GRACE D. LIGHTFOOT PARCE ID: 31-00-06424-00-7 DEED REF. 4143-242		PAR I	PRINCIPAL  ONE WAY  DO NOT  EXIT ONLY  DO NOT	PETER J. GOLDSTONE   PARCEL ID: 31-00-13432-00-1   DEED REF. 5688-01644
SCHOOL DISTRICT OF CHELTENHAM TOWNSHIP PARCEL NO. 31-0017380-00-4  EDWIN N. A. & MARCARET O. ADOM PARCEL ID:  31-00-06421-00-1 DEED REF. 4430-323  DISTRICT R2  SCHOOL DISTRICT OF CHELTENHAM TOWNSHIP PARCEL NO. 31-0017380-00-4 DEED REF. 5143-1519 GROSS AREA: 10.089 ACRES (439,458 SQ.FT.) NET AREA: 10.057 ACRES (438,093 SQ.FT.)	12°GT)  LAWN CONC.   E.O.P.		ENTER 4 G. TREE  HARR.  WHEEL STOP  O  O  O  O  O  O  O  O  O  O  O  O	DISTRICT R2  THOMAS G. III & VERA S. COLEMAN PARCEL ID: 31-00-13429-00-4 DEED REF. 4969-00838
DISTRICT R3  5 06'51'30" W 87.40' 28"WA  JOHN R. JR. & MARTHA JANE HOOVER PARCEL ID: 31-00-17377-00-7 DEED REF. 3249-850  DISTRICT R2	KINDERGARTEN SOFT PLAY AREA  BITUIMINOUS PLAY AREA  CONC WALK WALK KINDERGARTEN		BUS LOOP  BUS LOOP  BUS LOOP  BUSES  BUS LOOP  BUSES  BUS LOOP  BUSES  BUSE  BUSES  BUSE  BUSES  BUS	DEED REF. 4969-00838
50"HL	PROPOSED BUILDING ADDITION (FFE:	CONC. WALK	STOP SIGN	WARREN H. & LOUISE C. ALKUS PARCEL ID: 31-00-13426-00-7 DEED REF
CALCULATED BASED ON HY	00-YR FLOODPLAIN LOCATION PRAULIC ANALYSIS STUDY RENEW DESIGN GROUP,	LAWN Fac Gac	PEDESTRIAN PROSSING SIGNS "NO STOPPING OR STANDING"	SIGN "SPEED LIMIT 25MPH"  HERBERT H. & JEAN H. SCHARF PARCEL ID: 31-00-13423-00-1  DEED REF
30 TEMP 24 FA	12"JZ	PROPOSED BUILDING ADDITION (FFE: 290.0±)	40' F.Y.  SIGN "PROPEI OF CHELTENH SD" RULES & REGULATIONS	M
FRAME GARAGE 3/4" REBAR (SET) 25 R.T.	S*AR	24*ps 24	LANDSCAPED AREA SIGN "NO STOPPING OR STANDING" 22"PS  3' CHAIN LINK FENCE 26"PS  3' CHAIN LINK FENCE	DEED REF. 5250-00884 SIGN "NO PARKING BETWEEN SIGNS" SIGN "SPEED LIMIT 15MPH 8-9AM & 3:15-4PM"  SIGN "NO PARKING HERE TO CORNER"
PARKING SIGNS"  S 64°08'16" W 85.67'  DRIVE WAY  A 30"AS	20*AS \ 26*SM \EX. EVERGR.	24 "PS 22"PS EXISTING OUTDOOR CASSOON (GOLDERS) PELD VENETY LOCATION PELD VENETY LOCATION FENCE  EEN TREE 20"SM EX. SHADE TREE TO REMAIN (TYP.)  24"AS 22"PS	SIGN "SCHOOL ZONE SPEED WINDSCAPED 22"LS LINK LIMIT 15 MPH"  SIGN SIGN SIGN STOPHERE ON THERE ON THE STOPHERE	PED*
GE SWL SUL SUL SUL SUL SUL SUL SUL SUL SUL SU	47.49 CONC. SIDEWALK	"BEGIN CENTER SIGN JCT 73 AHEAD SIGN "LEFT LANE MUST TURN LEFT" SWL	S 03'51'30" W  YELLOW FLASHING SIGNAL LIGHT FOR SCHOOL ZONE SPEED LIMIT 15MPH (WHEN FLASHING)  CROSS WALK	OROSS MALL
	THIS IS TO OR UNDER SHOWN HE ARE CORRI	CERTIFY THAT THIS PLAN REPRESENTS A FIELD SURVEY BY ME MY SUPERVISION, THAT ALL PROPERTY CORNERS ARE SET AS REON, THAT ALL GEOMETRIC AND GEODETIC DETAILS AS SHOWN SU	NGINEER'S STATEMENT  JEREMY R. MAZIARZ, P.E., HEREBY CERTIFY THAT I AM A PROGUNEER, THAT THE SITE DESIGN CONFORMS TO ALL APPLICATE BDIVISION AND ZONING REGULATIONS, AND THAT SITE DESIGN CEPTED DESIGN STANDARDS AND PRACTICES.	LE

SIGNATURE (JOSEPH H. BLACKBURN, III, P.L.S.)



APPROVED BY THE BOARD OF COMMISSIONERS OF THE TOWNSHIP OF CHELTENHAM THIS \_\_\_\_\_ DAY OF \_\_\_\_\_\_, 20\_\_.

> (PRESIDEN (SECRETAR)

REVIEWED AND APPROVED BY THE CHELTENHAM TOWNSHIP ENGINEER THIS \_\_\_\_\_ DAY OF \_\_\_\_\_\_, 20\_\_.

(TOWNSHIP ENGINEER MCPC NO. \_\_\_\_\_ PROCESSED AND REVIEWED. A REPORT HAS BEEN PREPARED BY THE MONTGOMERY COUNTY PLANNING COMMISSION IN ACCORDANCE WITH THE MUNICIPALITIES PLANNING CODE.

CERTIFIED THIS DATE \_\_\_\_\_ FOR THE DIRECTOR MONTGOMERY COUNTY PLANNING COMMISSION



2000 ASHBOURNE ROAD ELKINS PARK, PA 19027 (215) 886-9500 PROFESSIONAL

Scale in Feet

100

1'' = 50'

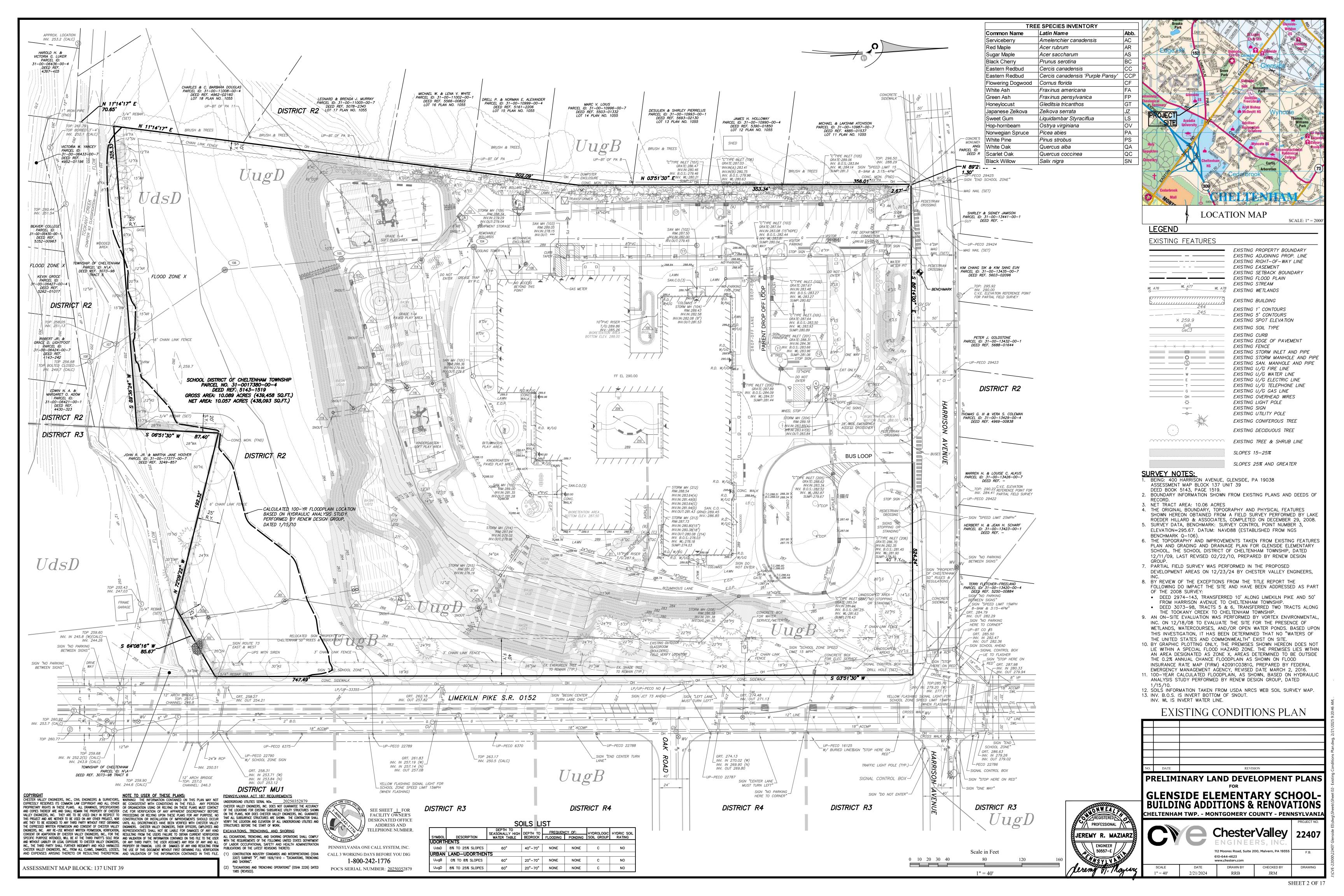
0 10 20 30 40 50

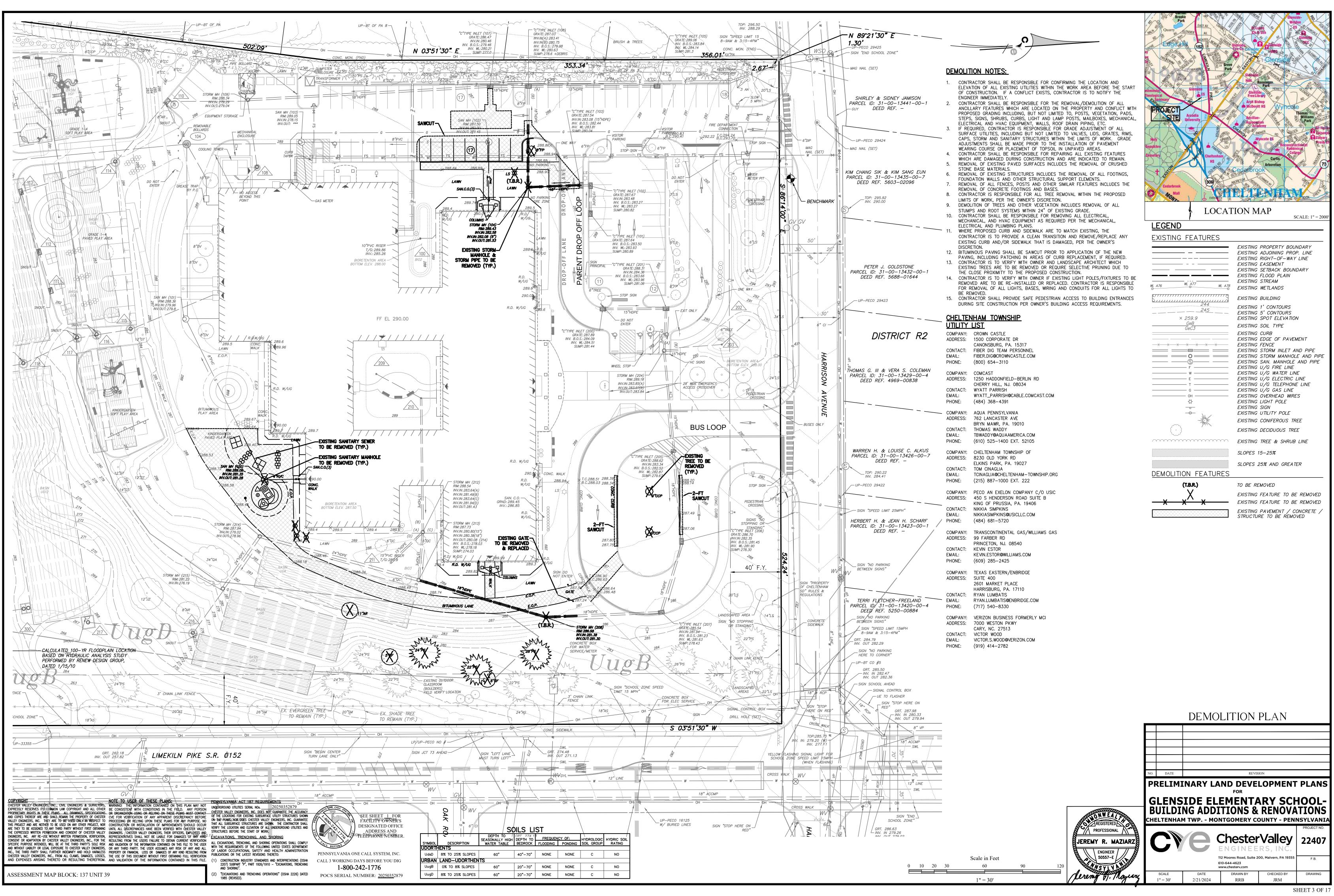
SIGNATURE (JEREMY R. MAZIARZ, P.E. 50557-E)

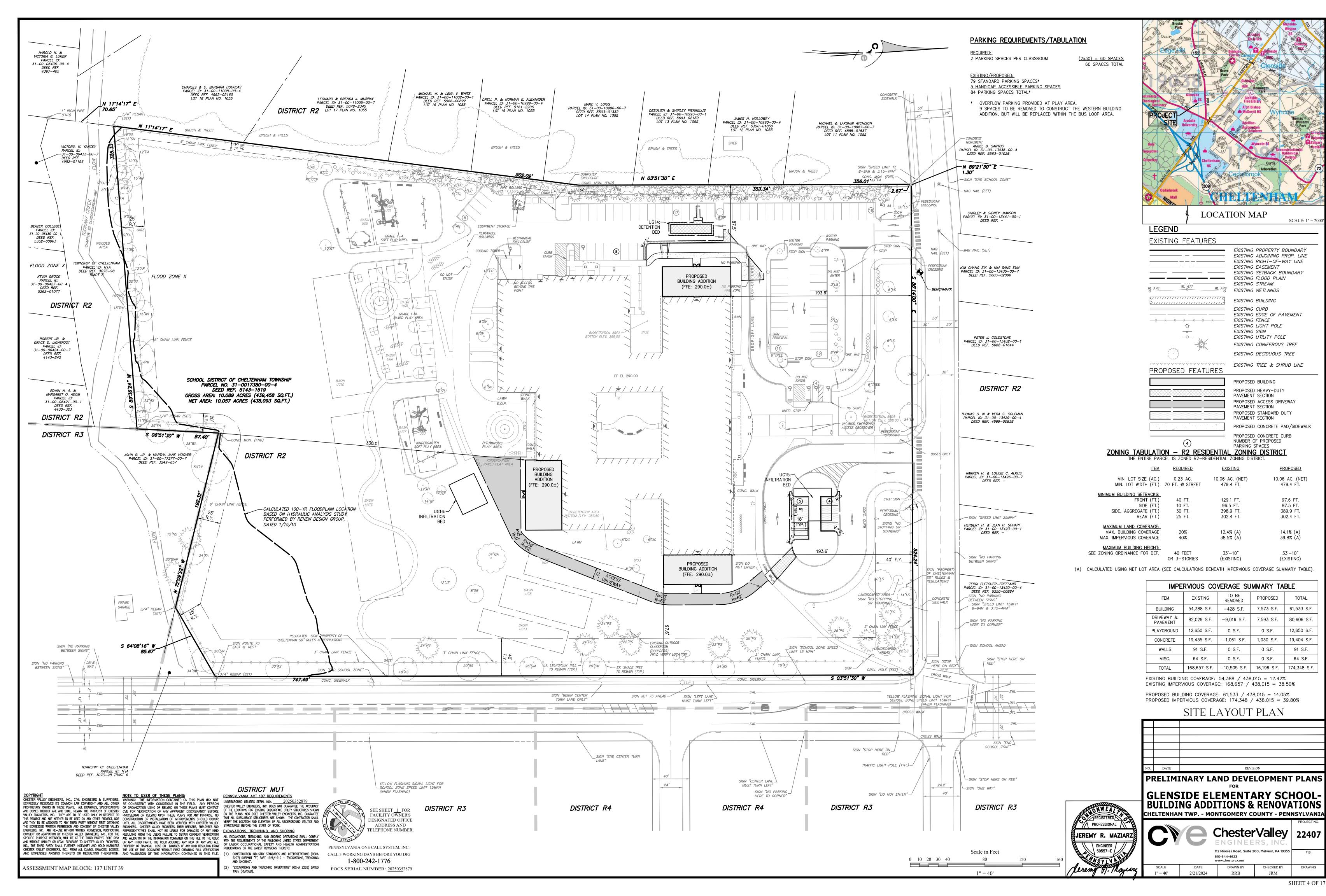
∛JEREMY R. MAZIARZ ENGINEER

PRELIMINARY LAND DEVELOPMENT PLANS **GLENSIDE ELEMENTARY SCHOOL BUILDING ADDITIONS & RENOVATIONS** 

TENHA	TENHAM TWP MONTGOMERY COUNTY - PENNSYLVANIA						
				PROJECT NO.			
		Chester NGINEE	•	22407			
	F.B.						
SCALE	DATE	DRAWN BY	CHECKED BY	DRAWING	,		
' = 50'	2/21/2024	RRB	JRM		į		







SHEET 4 OF 17

SCALE: 1'' = 20

10.06 AC. (NET)

479.4 FT.

97.6 FT.

87.5 FT.

389.9 FT.

302.4 FT.

14.1% (A)

39.8% (A)

33'-10"

(EXISTING)

TOTAL

61,533 S.F.

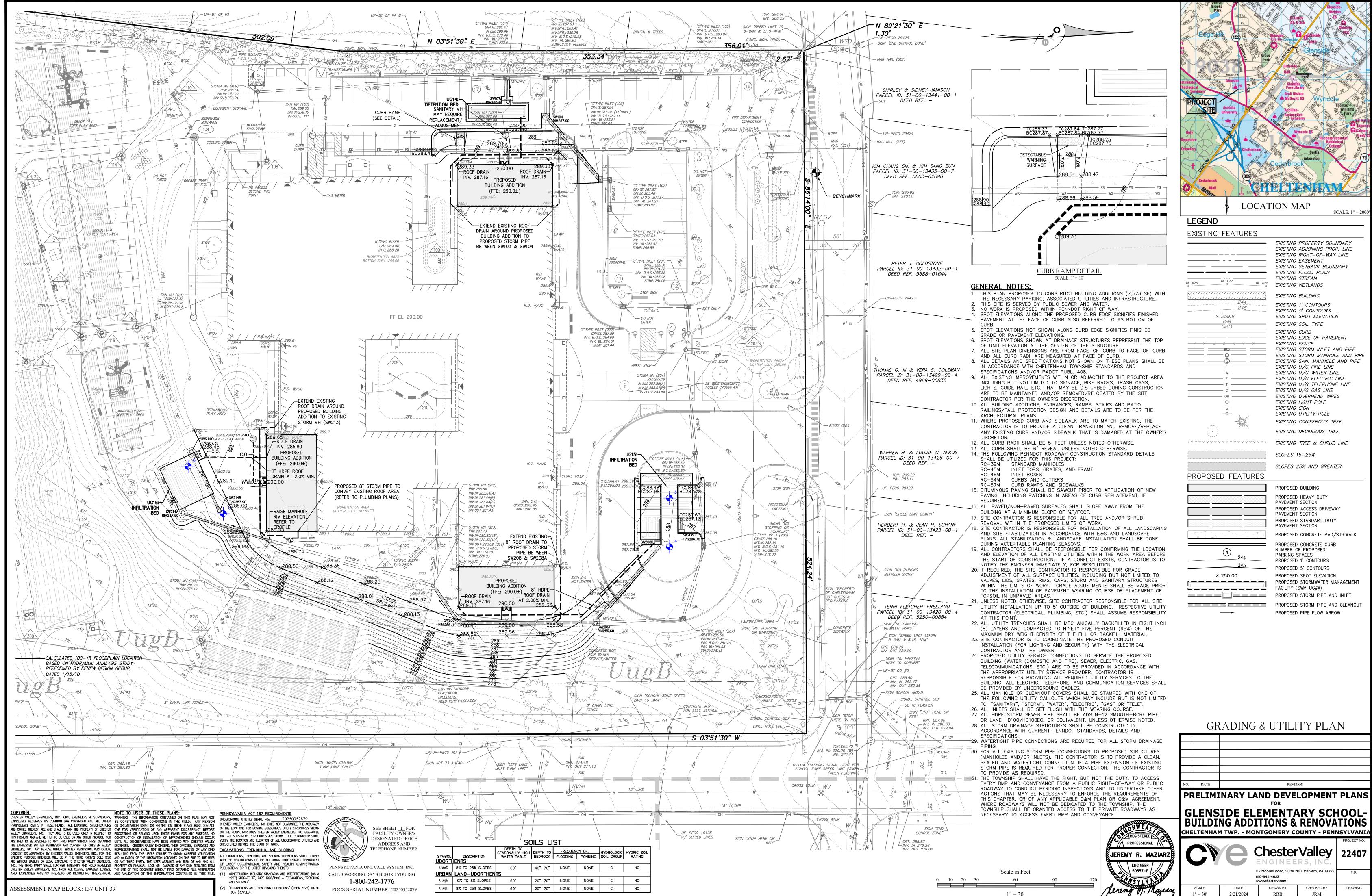
80,606 S.F.

12,650 S.F.

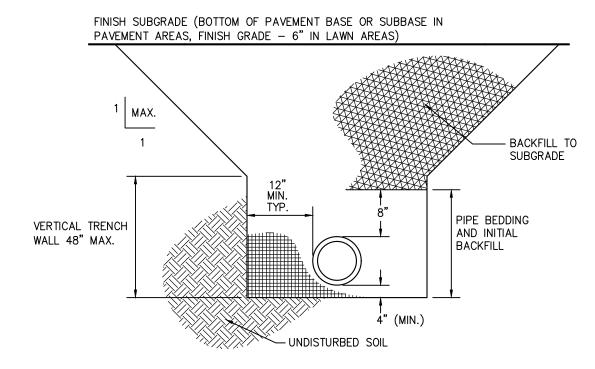
19,404 S.F.

91 S.F.

64 S.F.



SHEET 5 OF 17



# TYPICAL PIPE TRENCH DETAIL N.T.S.

### SUITABLE MATERIAL

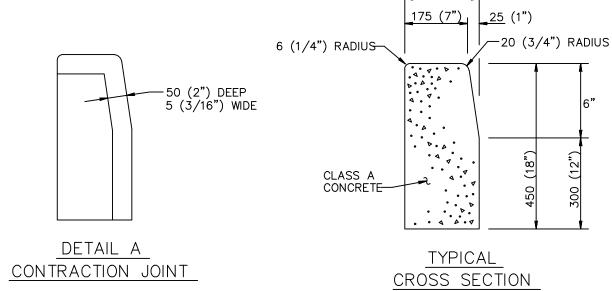
SUITABLE MATERIAL - CLEAN SOIL CONTAINING NOT MORE THAN 30% SILT/CLAY PARTICLES FINER THAN THE NO. 200 SIEVE (BY WEIGHT), AS DETERMINED BY SOIL LABORATORY TESTING AND METHOD OF ASTM D-2487, WHICH IS CAPABLE OF BEING COMPACTED TO THE REQUIRED DENSITY AT THE PROPER MOISTURE CONTENT, AND WHICH IS FREE OF TOPSOIL, ROOTS, TRASH, DEBRIS, FROZEN MATERIAL, ORGANIC MATTER, EXCESS MOISTURE (WATER CONTENT AT COMPACTION MUST BE WITHIN 2% OF OPTIMUM) AND OTHER DELETERIOUS INCLUSIONS. THE LIMITS OF ROCK AS SUITABLE MATERIAL SHALL NOT EXCEED 4 INCHES (4") IN SIZE. THE REMAINDER OF ROCK SHALL BE CLASSED AS UNSUITABLE. THE PERCENTAGE OF ROCK IN SUITABLE MATERIAL SHALL BE LIMITED TO THAT WHICH WILL PERMIT COMPACTION OF FILL TO THE REQUIRED DENSITY. SUITABLE FILL SHALL BE APPROVED BY THE ON-SITE GEOTECHNICAL ENGINEER AND TOWNSHIP PRIOR TO PLACEMENT AND COMPACTION. SUITABLE FILL

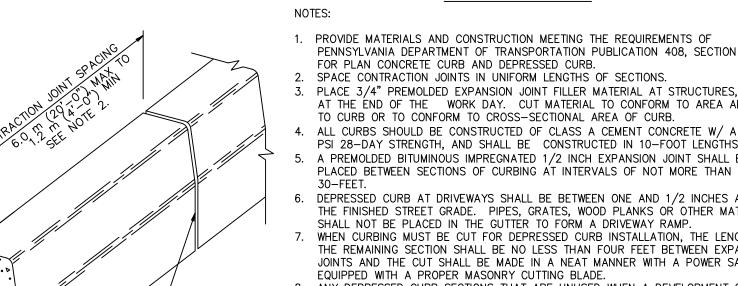
1. PLACEMENT OF BACKFILL MATERIAL IN 8 INCH LAYERS (LIFTS) SHALL BE PERMITTED WHEN USING VIBRATORY COMPACTION EQUIPMENT.

TRENCH REQUIREMENTS (SEE NOTES)

IKENCH KEQUIF	REMENTS (SEE NOTES)			
			BACKFILL TO SUBGRA	ADE
PIPE TYPE	BEDDING	INITIAL BACKFILL	BENEATH BITUMINOUS PAVEMENT (EXISTING TO REMAIN OR PROPOSED), CONCRETE SIDEWALK OR PAVERS	BENEATH OTHER AREA
ANY PIPE WITHIN PUBLIC ROW	AASHTO #57 COARSE AGGREGATE	PA DOT NO. 2A COARSE AGGR.	PA DOT NO. 2A COARSE AGGREGATE	PA DOT NO. 2A COARSE AGGR.
STORM (METAL)	AASHTO #57 COARSE AGGREGATE	PA DOT NO. 2A COARSE AGGR.	PA DOT NO. 2A COARSE AGGREGATE	SUITABLE MATERIAL
STORM (RCP)	AASHTO #57 COARSE AGGREGATE	PA DOT NO. 2A COARSE AGGR.	PA DOT NO. 2A COARSE AGGREGATE	PA DOT NO. 2A COARSE AGGR.
STORM (OTHER)	AASHTO #57 COARSE AGGREGATE	PA DOT NO. 2A COARSE AGGR.	PA DOT NO. 2A COARSE AGGREGATE	SUITABLE MATERIAL
SANITARY	AASHTO #57 COARSE AGGREGATE	PA DOT NO. 2A COARSE AGGR.	SUITABLE MATERIAL	SUITABLE MATERIAL
WATER (PIPE)	NONE REQUIRED	PA DOT NO. 2A COARSE AGGR.	SUITABLE MATERIAL	SUITABLE MATERIAL
WATER (TUBING)	CEMENT CONCRETE SAND, TYPE A, PA DOT, PUB. 408, § 703.1	CEMENT CONCRETE SAND, TYPE A, PA DOT, PUB. 408, § 703.1	SUITABLE MATERIAL	SUITABLE MATERIAL
OTHER PIPE, CONDUIT	AASHTO #57 COARSE AGGREGATE	PA DOT NO. 2A COARSE AGGR.	SUITABLE MATERIAL	SUITABLE MATERIAL

1. ALL STORM SEWERS SHALL BE CONSTRUCTED PER PENNDOT SPECIFICATIONS AS OUTLINED IN PUBLICATION 408 DESIGN MANUAL, PART 2, HIGHWAY DESIGN AND STANDARDS FOR ROADWAY CONSTRUCTION, RC-SERIES UNLESS OTHERWISE DICTATED BY THE TOWNSHIP CODE.





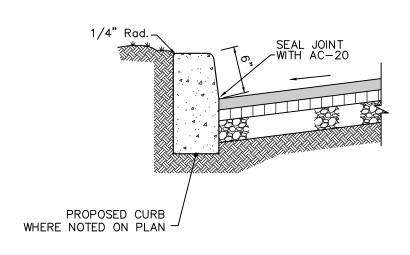
SEE DETAIL A.

- 1. PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PUBLICATION 408, SECTION 630 FOR PLAN CONCRETE CURB AND DEPRESSED CURB. SPACE CONTRACTION JOINTS IN UNIFORM LENGTHS OF SECTIONS.
- . PLACE 3/4" PREMOLDED EXPANSION JOINT FILLER MATERIAL AT STRUCTURES, AND AT THE END OF THE WORK DAY. CUT MATERIAL TO CONFORM TO AREA ADJACENT TO CURB OR TO CONFORM TO CROSS-SECTIONAL AREA OF CURB. 4. ALL CURBS SHOULD BE CONSTRUCTED OF CLASS A CEMENT CONCRETE W/ A 3,300 PSI 28-DAY STRENGTH, AND SHALL BE CONSTRUCTED IN 10-FOOT LENGTHS. A PREMOLDED BITUMINOUS IMPREGNATED 1/2 INCH EXPANSION JOINT SHALL BE
- . DEPRESSED CURB AT DRIVEWAYS SHALL BE BETWEEN ONE AND 1/2 INCHES ABOVE THE FINISHED STREET GRADE. PIPES, GRATES, WOOD PLANKS OR OTHER MATERIALS SHALL NOT BE PLACED IN THE GUTTER TO FORM A DRIVEWAY RAMP. WHEN CURBING MUST BE CUT FOR DEPRESSED CURB INSTALLATION, THE LENGTH OF THE REMAINING SECTION SHALL BE NO LESS THAN FOUR FEET BETWEEN EXPANSION JOINTS AND THE CUT SHALL BE MADE IN A NEAT MANNER WITH A POWER SAW
- EQUIPPED WITH A PROPER MASONRY CUTTING BLADE. 8. ANY DEPRESSED CURB SECTIONS THAT ARE UNUSED WHEN A DEVELOPMENT OR PHASE OF A DEVELOPMENT IS COMPLETED, SHALL BE COMPLETELY REMOVED AND REPLACED WITH FULL SECTION UPRIGHT CURBING TO LINE AND GRADE OF ADJACENT - CONTRACTION JOINT, CURBING. FORMING AND POURING VERTICAL CURBING ON TOP OF AN EXISTING CURB DEPRESSION WILL NOT BE PERMITTED. ALL CURBING SHALL BE 6" REVEAL UNLESS NOTED OTHERWISE.

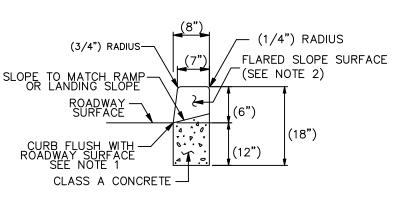
CLEANED PRIOR TO SEALING TO PROVIDE FOR MAXIMUM ADHERENCE OF THE SEALING

10. EXPOSED CURB FACES SHALL HAVE A BRUSHED FINISH. 11. BASE UNDER CONCRETE CURB SHALL BE MINIMUM 4" OF 2A MODIFIED AGGREGATE. 12. CONCRETE CURBS SHALL BE SEALED W/ AC-20 OR OTHER TOWNSHIP APPROVED SEALER. THE SEAL MATERIALS SHALL EXTEND OUT A MINIMUM OF 12" FROM FACE OF CURB AND A MINIMUM 2" UP FACE. THE PAVEMENT AND FACE SHALL BE PROPERLY

### **CONCRETE CURB DETAIL**

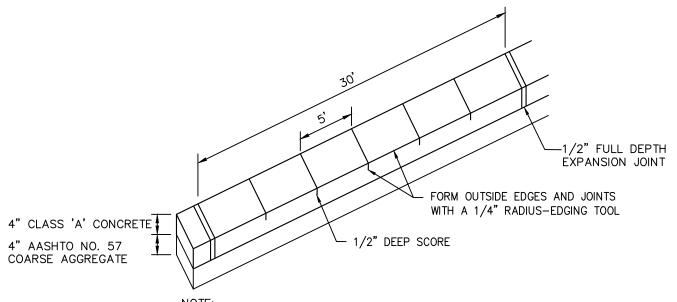


PARKING LOT/DRIVEWAY STANDARD STRAIGHT N.T.S.

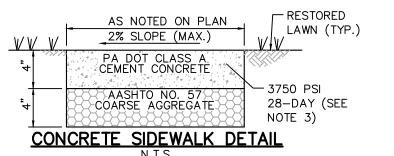


DEPRESSED CURBS FOR CURB RAMPS

1. CONSTRUCT DEPRESSED CURB FOR CURB RAMPS FLUSH TO ADJACENT ROADWAY GRADE EDGE OF ROAD ELEVATIONS AT THE FLOW LINE TO ENSURE POSITIVE DRAINAGE AND PREVENT PONDING. FOR LEVEL TURNING SPACES BEHIND DEPRESSED CURB, ADJUST SLOPES 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.

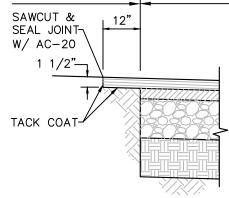


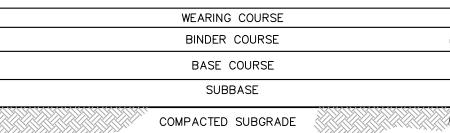
SIDEWALK SHALL BE PROVIDED WITH A LIGHT BROOM FINISH. 2. CONSTRUCT SIDEWALK IN ACCORDANCE WITH PENNDOT PUBLICATION 408.



- 1. PLACE 1/4" THICK PREMOLDED EXPANSION JOINT FILLER WHERE SIDEWALK ABUTS
- 2. CONSTRUCT SIDEWALK IN 30' LENGTHS, EXCEPT FOR CLOSURES. SEPARATE SLABS W/ A TRANSVERSE 1/4" THICK PREMOLDED EXPANSION JOINT FILLER. DIVIDE SLABS BETWEEN EXPANSION JOINTS W/ TRANSVERSE SCORES AT 5' SPACING.
- 3. PADOT CLASS "AA" CEMENT CONCRETE (3750 PSI) SHALL BE USED FOR ALL SIDEWALKS CONSTRUCTED WITHIN THE RIGHT-OF-WAY OF TOWNSHIP STREETS.
- 4. LAWN RESTORATION TO CONSIST OF 4" (MIN.) TOPSOIL AND PERMANENT SEED MIXTURE AND MULCH.
- 5. CONCRETE CURING COMPOUND TO BE APPLIED IN ACCORDANCE WITH PENNDOT PUB. 408, SECTION 711.







# REQUIRED BITUMINOUS PAVEMENT SECTION

	IN.		
		LOCATION	
DEPTH	HEAVY-DUTY: ON-SITE HEAVY DUTY PAVEMENT	ON-SITE ACCESS DRIVEWAY	STANDARD: ON—SITE PARKING AREAS & DRIVEWAYS (WHERE NOT DESIGNATED OTHERWISE)
WEARING:	1-1/2"	1-1/2"	1-1/2"
BINDER:	2"	NONE	2-1/2"
BASE (AS NOTED):	4"	4-1/2"	NONE
SUBBASE: PA DOT 2A COARSE AGGREGATE	8" PADOT 2A COARSE AGGREGATE (SEE NOTE)	8" PADOT 2A COARSE AGGREGATE (SEE NOTE)	8" PADOT 2A COARSE AGGREGATE (SEE NOTE)

FOR PAVEMENT WHERE UNCURBED, EXTEND SUBBASE AND/OR BASE COURSE EIGHT INCHES BEYOND EACH REQUIRED EDGE OF THE BINDER AND SURFACE COURSES.

# APPLY TACK COAT IN BETWEEN PAVEMENT LAYERS

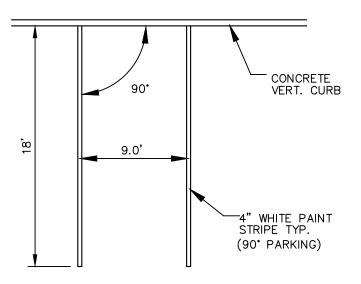
BITUMINOUS PAVEME	ENT SPECIFICATIONS, ALL SECTIONS, AS APPLICABLE
WEARING COURSE	SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, 3 TO <10 MILLION ESALS, 9.5 MM MIX, SRL-H
BINDER COURSE	SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, 3 TO <10 MILLION ESALS, 19.0 MM MIX
BASE COURSE:	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 3 TO <10 MILLION ESALS, 25.0 MM MIX

PAVEMENT SHOULD BE INSTALLED LATE IN CONSTRUCTION WHEN MOST HEAVY CONSTRUCTION TRAFFIC WILL NO LONGER BE ON-SITE. PRIOR TO PAVING, THE SITE SHOULD BE PROOFROLLED AGAIN, NEW SOFT AREAS TREATED IN ACCORDANCE WITH SOIL REMEDIATION NOTES, THE BASE LEVELED AND THICKENED AS

- REQUIRED, AND THE SITE PAVED AT THE END OF CONSTRUCTION. 2. FOR PAVEMENT WHERE UNCURBED, EXTEND SUBBASE AND/OR BASE COURSE EIGHT INCHES BEYOND EACH REQUIRED EDGE OF THE BINDER AND SURFACE COURSES.
- 3. FLEXIBLE (AGGREGATE) BASE SHOULD BE COMPACTED TO 100% OF THE MATERIAL'S MAXIMUM DRY DENSITY AS PER MODIFIED PROCTOR (ASTM D-1557).
- 4. PAVEMENT MUST BE PLACED OVER WELL PREPARED SUBRADE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR (ASTM D-698) DENSITY IN THE UPPER 2' BELOW SUBGRADE AND TO AT LEAST 95% OF THE STANDARD PROCTOR (ASTM D-698) MAXIMUM DRY DENSITY ELSEWHERE.
- 5. SEALING MATERIAL FOR FILLING PAVEMENT JOINTS SHALL MEET THE REQUIREMENTS OF ASTM D3405 OR D1190. ALTERNATIVELY, LOW MODULUS MATERIALS SUCH AS SILICONE, HOT OR COLD-POURED RUBBERIZED ASPHALT OR NITRILE RUBBER MEETING THE MANUFACTURER'S SPECIFICATIONS MAY BE USED.
- 6. CAR TRAFFIC SHOULD SHOULD NOT BE ALLOWED ON THE NEW PAVEMENT FOR AT LEAST 3-DAYS; SIMILARLY NO TRUCK TRAFFIC FOR 7-DAYS.

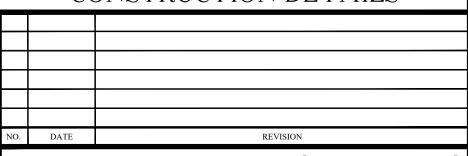
### PAVEMENT MARKING NOTES:

- MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE DEPARTMENT'S SPECIFICATIONS, PUBLICATION 408. THESE PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE REGULATIONS GOVERNING THE DESIGN, LOCATION, AND OPERATION OF ALL OFFICIAL TRAFFIC SIGNS, SIGNALS, AND MARKINGS ON AND
- ALONG HIGHWAYS WITHIN THE COMMONWEALTH OF PENNSYLVANIA. 3. ALL PAVEMENT MARKING SHALL BE REFLECTORIZED. 4. THE CONTRACTOR SHALL PREPARE THE PAVEMENT SURFACE FOR THE PROPER ADHESION. ANY SWEEPING OR REMOVAL OF DEBRIS, GRAVEL, DIRT, OR OTHER FOREIGN MATERIALS SHALL BE CONSIDERED INCIDENTAL
- TO THE INSTALLATION OF THE NEW PAVEMENT MARKINGS, AND NO SEPARATE PAYMENT SHALL BE MADE 5. THE CONTRACTOR SHALL REMOVE ALL PREVIOUS PAVEMENT MARKINGS, WHICH IN THE OPINION OF THE
- ENGINEER CONFLICT WITH THE NEW PAVEMENT MARKINGS. UNLESS SPECIFICALLY STATED OTHERWISE THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE NEW PAVEMENT MARKINGS, AND NO SEPARATE PAYMENT WILL BE MADE THEREFORE.
- PRIOR TO THE APPLICATION, THE CONTRACTOR SHALL FIELD CHECK AND LOCATE ALL PAVEMENT MARKINGS TO THE SATISFACTION OF THE INSPECTOR.
- 7. ALL MARKING IMPROPERLY APPLIED OR LOCATED SHALL BE COMPLETELY REMOVED AND CORRECTLY RE-APPLIED AT THE SOLE EXPENSE OF THE CONTRACTOR.
- 8. WHERE BITUMINOUS SEALANTS PREVENTS OR MAKES IMPRACTICAL THE EXTENDING OF LINES TO THE FACE OF CURB, THE CONTRACTOR SHALL EXTEND LINES TO EDGE OF SEALANT OR WITHIN ONE FOOT OF THE
- FACE OF CURB, WHICHEVER IS LESS. 9. ALL PROPOSED PAVEMENT MARKINGS (ARROWS, STOP BARS, CROSSWALKS, ETC.) MUST BE HOT THERMOPLASTIC ON BITUMINOUS PAVEMENT, INCLUDING LONG AND SHORT LINES AND PAVEMENT MARKING LEGENDS. ALL PROPOSED PAVEMENT MARKINGS MUST BE EPOXY ON CONCRETE PAVEMENT, INCLUDING LONG AND SHORT LINES AND PAVEMENT MARKING LEGENDS.



TYPICAL PARKING STALL STRIPING

### CONSTRUCTION DETAILS



PRELIMINARY LAND DEVELOPMENT PLANS GLENSIDE ELEMENTARY SCHOOL

DRAWN BY

RRB

CHECKED BY

JRM

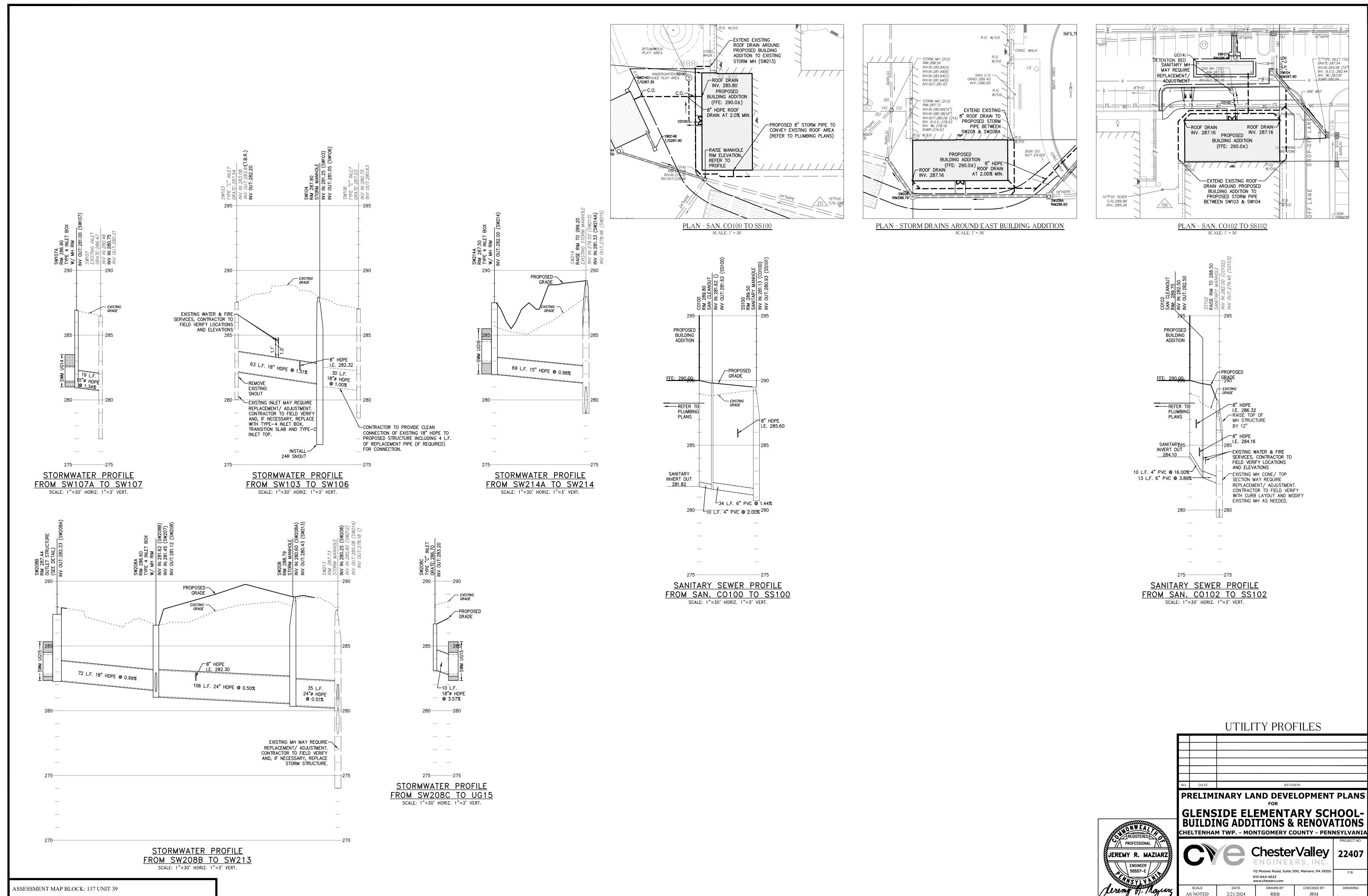
CHELTENHAM TWP. - MONTGOMERY COUNTY - PENNSYLVANIA ChesterValley | 22407 610-644-4623 www.chesterv.cor

2/21/2024

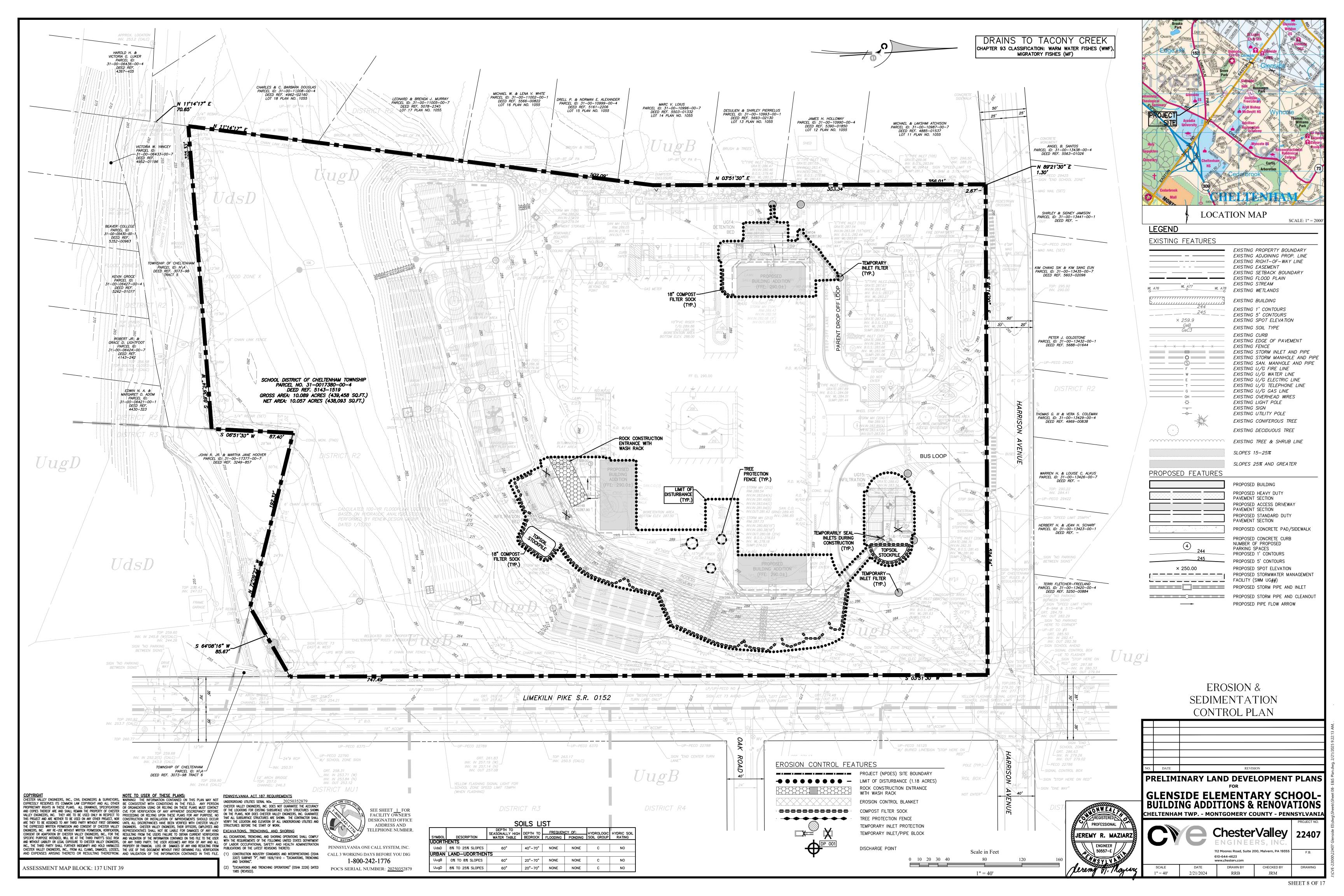
**BUILDING ADDITIONS & RENOVATIONS** 

ASSESSMENT MAP BLOCK: 137 UNIT 39

DRAWING



SHEET 7 OF 17



CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER CONSTRUCTION, STABILIZATION, AND MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROLS AND RELATED ITEMS INCLUDED WITHIN THESE PLANS.

ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS, SHALL BE DONE IN ACCORDANCE WITH APPROVED E&S PLANS. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN (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 THE IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.

THE OPERATOR SHALL ASSURE THAT AN EROSION AND SEDIMENT CONTROL PLAN HAS BEEN PREPARED, APPROVED BY THE COUNTY CONSERVATION DISTRICT, AND IS BEING IMPLEMENTED AND MAINTAINED FOR ALL SOIL AND/OR ROCK SPOIL AND BORROW AREAS, REGARDLESS OF THEIR LOCATIONS.

- 1. THE MONTGOMERY COUNTY CONSERVATION DISTRICT (MCCD)
- 143 LEVEL ROAD COLLEGEVILLE, PA 19426
- PHONE: (610) 489-4506 FAX: (610) 489-9795

IMPLEMENTED PRIOR TO BEING ACTIVATED.

- 2. THE RECEIVING WATER FOR THIS PROJECT IS TACONY CREEK. THE CHAPTER 93 CLASSIFICATION FOR TACONY CREEK IS WARM WATER FISHES, MIGRATORY FISHES (WWF-MF).
- 3. NOTIFY THE MONTGOMERY COUNTY CONSERVATION DISTRICT AND ARRANGE A PRE-CONSTRUCTION MEETING FOR ALL INVOLVED PARTIES (INCLUDING MCCD, APPLICANT, ENGINEER, AND TOWNSHIP OFFICIALS).
- 4. NOTIFY THE TOWNSHIP ENGINEER AT LEAST 48 HOURS PRIOR TO ANY EARTH DISTURBANCE ACTIVITIES. 5. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN A MANNER SUCH THAT ALL EROSION AND AIR/WATER POLLUTION IS MINIMIZED. STATE AND LOCAL
- LAWS CONCERNING ABATEMENT SHALL BE FOLLOWED. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL THE LIMITS OF WORK SHOWN ON THIS PLAN ARE THE REAL EXTENT REQUIRED FOR CONSTRUCTION. THE CONTRACTOR SHALL ADHERE TO THESE LIMITS IN
- MINIMIZING DISTURBED LAND, AND ALL CONSTRUCTION SHALL BE CONDUCTED WITHIN THESE LIMITS. 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. 8. TOPSOIL TAKEN FROM CONSTRUCTION AREAS SHALL BE SEEDED WITH A VEGETATIVE COVER AND STOCKPILED FOR REUSE IN FINISH GRADING. STOCKPILE
- PILE. THERE SHALL BE NO EARTH DISTURBANCE WITHIN THE STOCKPILE AREA. 9. SHOULD UNFORESEEN EROSIVE CONDITIONS DEVELOP DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ACTION TO REMEDY SUCH CONDITIONS AND TO PREVENT DAMAGE TO ADJACENT PROPERTIES AND STREAMS IN ACCORDANCE WITH PADOT 408, SECTION 845. STOCKPILES OF CRUSHED STONE AND

HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2:1 OR FLATTER. SEDIMENT BARRIER SHALL BE INSTALLED ON THE LOW SIDE OF THE

- MULCHES MUST BE MAINTAINED AT THE SITE IN READINESS TO DEAL IMMEDIATELY WITH EMERGENCY PROBLEMS OF EROSION 10. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL
- NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THE SITE. CONSTRUCTION WASTES MUST BE RECYCLED TO THE EXTENT PRACTICABLE, AND DISPOSAL METHODS MUST COMPLY WITH FEDERAL, STATE AND LOCAL REQUIREMENTS. 11. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY
- 12. 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.
- 13. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENTATION BMP'S MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION BMP'S AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. 14. ALL SITE INSPECTIONS WILL BE DOCUMENTED IN AN INSPECTION LOG KEPT FOR THIS PURPOSE. THE COMPLIANCE ACTIONS AND THE DATE, TIME AND
- NAME OF THE PERSON CONDUCTING THE INSPECTION. THE INSPECTION LOG WILL BE KEPT ON SITE AT ALL TIMES AND MADE AVAILABLE TO THE DISTRICT UPON REQUEST. 15. ALL PREVENTIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING,
- MUST BE PREFORMED IMMEDIATELY. IF EROSION AND SEDIMENTATION BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS OR MODIFICATIONS OF THOSE INSTALLED WILL BE NEEDED. 16. SEDIMENT TRACKED ONTO A PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY OR AS NEEDED THROUGHOUT THE WORKDAY, OR AS DIRECTED BY THE CONSERVATION DISTRICT OR MUNICIPALITY 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. 17. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. 18. AREAS WHICH ARE TO BE TOP-SOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES (6 TO 12 INCHES ON COMPACTED SOILS) PRIOR TO THE PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING, I.E.
- 19. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS. STRUCTURES, CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- 20. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 8 INCHES IN THICKNESS. 21. 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.
- 22. FROZEN MATERIALS OF SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS. 23. FILLS SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- 24. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATIONS FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- 25. 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 THE PLAN.
- 26. ANY DISTURBED AREA, ON WHICH ACTIVITY HAS CEASED FOR ANY AMOUNT OF TIME, MUST BE SEEDED AND MULCHED IMMEDIATELY. DURING NON-GERMINATING PERIODS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. DISTURBED AREAS WHICH ARE NOT AT FINISH GRADE AND WHICH WILL BE RE-DISTURBED WITHIN ONE YEAR MAY BE SEEDED AND MULCHED WITH A QUICK GROWING TEMPORARY SEED MIXTURE AND MULCH. DISTURBED AREAS WHICH ARE EITHER AT FINISH GRADE OR WILL NOT BE RE-DISTURBED WITHIN ONE YEAR MUST BE SEEDED WITH A PERMANENT SEED MIXTURE AND MULCHED
- 27. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED PERMANENT STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS. 28. 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. 29. 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.
- 30. AFTER FINAL STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST-CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING THE REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID VEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
- 31. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION. 32. FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT LADEN RUNOFF FROM LEAVING THE 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 STREAM LAW. THE CLEAN STREAM LAW PROVIDES FOR UP TO \$10,000 PER DAY CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR OR CRIMINAL PENALTIES FOR EACH VIOLATION. 33. THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF THE APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS, TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUBPART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.
- 34. THE PERMITTEE SHALL NOTIFY THE MONTGOMERY COUNTY CONSERVATION DISTRICT IMMEDIATELY PRIOR TO ANY CESSATION IN EARTHMOVING ACTIVITIES. 35. EROSION AND SEDIMENTATION CONTROLS MUST BE CONSTRUCTED, STABILIZED AND FUNCTIONAL BEFORE GENERAL SITE DISTURBANCE WITHIN THE TRIBUTARY AREA OF THOSE CONTROLS BEGINS. RUNOFF FROM DISTURBED AREAS MUST PASS THROUGH A SEDIMENT REMOVAL OR RETENTION FACILITY
- BEFORE LEAVING THE SITE. 36. ONLY LIMITED UP SLOPE DISTURBANCE WILL BE PERMITTED TO PROVIDE ACCESS TO SEDIMENT TRAPS AND CHANNELS OF CONVEYANCE FOR GRADING AND ACQUIRING BORROW TO CONSTRUCT THOSE CONTROLS.
- 37. WHERE BMPS ARE FOUND TO FAIL TO ALLEVIATE EROSION OR SEDIMENT POLLUTION THE PERMITTEE OR CO-PERMITTEE SHALL INCLUDE THE FOLLOWING INFORMATION: A. THE LOCATION AND SEVERITY OF THE BMPS FAILURE AND ANY POLLUTION EVENTS
- 39. ACCUMULATED SILT SHALL BE REMOVED ALONG SILT FENCING OR COMPOST FILTER SOCKS, REGRADED, AND STABILIZED FLSEWHERE ON THE SITE. SILT

. THE TIME FRAME TO CORRECT THE NON-COMPLIANCE, INCLUDING THE EXACT DATES WHEN THE ACTIVITY WILL RETURN TO COMPLIANCE.

- SHALL ALSO BE REMOVED FROM THE SEDIMENT TRAPS AT THE CLEANOUT ELEVATIONS. THE SILT SHALL BE SPREAD ELSEWHERE ON THE SITE AND SEEDED. 40. SHOULD ANY MEASURES CONTAINED WITHIN THIS PLAN PROVE TO BE INCAPABLE OF ADEQUATELY REMOVING SEDIMENT FROM ON-SITE FLOWS PRIOR TO THE DISCHARGE OF OR STABILIZING OF SURFACES INVOLVED, ADDITIONAL MEASUREMENT MUST BE IMPLEMENTED IMMEDIATELY BY THE OWNER/ DEVELOPER TO FLIMINATE SUCH PROBLEMS.
- 41. CHANNELS, SEDIMENTATION BASINS, SEDIMENTATION TRAPS AND STOCKPILES MUST BE SEEDED AND MULCHED IMMEDIATELY. 42. GRADED AREAS ARE TO BE TEMPORARILY SEEDED AND MULCHED IMMEDIATELY FOLLOWING EARTHMOVING PROCEDURES. TEMPORARY SEED SHALL BE ANNUAL RYE GRASS APPLIED AT THE RATES SPECIFIED. MULCH SHALL BE HAY OR STRAW APPLIED AT THE RATE OF AT LEAST 3 TONS PER ACRE. 43. LIME SHALL BE APPLIED TO ALL TEMPORARILY SEEDED AREAS AT A MINIMUM RATE AS SPECIFIED.
- 44. ALL TEMPORARILY SEEDED AREAS SHALL HAVE 5-5-5 FERTILIZER APPLIED AT THE MINIMUM RATES SPECIFIED. 45. ESTABLISH PERMANENT SEEDING AS SOON AS POSSIBLE AFTER FINAL GRADING IS COMPLETED. PERMANENT SEEDING SHALL BE AT THE RATES SPECIFIED. FERTILIZER AND LIME SHALL BE APPLIED AT THE MINIMUM RATES SPECIFIED.
- 46. PERMANENTLY SEEDED AREAS SHALL HAVE HAY OR STRAW APPLIED AT THE RATE OF AT LEAST 3 TONS PER ACRE 47. ANY AREAS WHERE HYDROSEED IS USED, MULCH IS NEEDED AT A MINIMUM RATE OF 3 TONS PER ACRE. 48. SILT FENCING AND COMPOST FILTER SOCKS ARE TO BE MAINTAINED, AND REPLACED IF NECESSARY, DURING THE ENTIRE CONSTRUCTION PERIOD UNTIL A
- 49. DUST CONTROL SHALL BE PROVIDED BY THE CONTRACTOR AT ALL TIMES DURING CONSTRUCTION. 50. CONSTRUCTION VEHICLES LEAVING THE SITE SHALL NOT DEPOSIT ANY MATERIAL OUTSIDE OF THE PROJECT SITE BOUNDARIES AND/OR A PUBLIC
- RIGHT-OF-WAY. ANY MATERIAL DEPOSITED SHALL BE IMMEDIATELY REMOVED. 51. IF ANY SIGNIFICANT CHANGES ARE TO BE MADE TO THE EROSION AND SEDIMENTATION CONTROL PLAN, THE BUILDER OR LANDOWNER WILL CONTACT THE
- MONTGOMERY COUNTY CONSERVATION DISTRICT AT (610) 892-9484 FOR THE ADEQUACY OF THESE CHANGES. 52. SEDIMENT MUST BE REMOVED FROM STORMWATER INLETS NOT DRAINING TO A SEDIMENT TRAP WITH INLET PROTECTION AFTER EACH RUNOFF EVENT.
- 53. EACH SEDIMENT TRAP/BASIN MUST BE STABILIZED AND FUNCTIONING PROPERLY PRIOR TO ANY FURTHER EARTH DISTURBANCE ACTIVITY. UPON INSTALLATION OF THE TEMPORARY SEDIMENT TRAP/BASIN RISER(S), AN IMMEDIATE INSPECTION OF THE RISER(S) SHALL BE CONDUCTED BY A QUALIFIED SITE REPRESENTATIVE AND THE MONTGOMERY COUNTY CONSERVATION DISTRICT SHALL BE NOTIFIED IN WRITING THAT THE PROPER RISER IS INSTALLED AND SEALED, PER PLAN. SEDIMENT TRAPS/BASINS MUST BE PROTECTED FROM UNAUTHORIZED ACTS OF THIRD PARTIES.
- 54. UPON REQUEST, THE PERMIT HOLDER AND/OR HIS CONTRACTOR SHALL PROVIDE AN AS-BUILT FOR ANY SEDIMENT BASIN OR TRAP TO THE MUNICIPAL INSPECTOR, LOCAL CONSERVATION DISTRICT, OR DEP. 55. BEFORE INITIATING ANY REVISION TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE
- EFFECTIVENESS OF THE APPROVED E & S CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE MONTGOMERY COUNTY CONSERVATION DISTRICT. THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE POTENTIAL FOR ACCELERATED EROSION AND/OR
- SEDIMENT POLLUTION. 56. ALL CONCRETE TRUCKS SHALL UTILIZE THE CONCRETE WASHOUT AREA PRIOR TO LEAVING THE SITE.

PERMANENT VEGETATIVE COVER WITHIN THE TRIBUTARY AREA IS ESTABLISHED.

B. ALL STEPS TAKEN TO, REDUCE, ELIMINATE AND PREVENT THE RECURRENCE OF THE NON-COMPLIANCE.

- 57. UTILITY LINE TRENCH EXCAVATION NOTES: A. LIMIT ADVANCED CLEARING AND GRUBBING OPERATIONS TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE
- B. WORK CREWS AND EQUIPMENT FOR TRENCHING, PLACEMENT OF PIPE, PLUG CONSTRUCTION AND BACKFILLING WILL BE SELF CONTAINED AND SEPARATE FROM CLEARING AND GRUBBING AND SITE RESTORATION AND STABILIZATION OPERATIONS. C. ALL SOIL EXCAVATED FROM THE TRENCH WILL BE PLACED ON THE UPHILL SIDE OF THE TRENCH.
- D. LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT, PLUG INSTALLATION AND BACKFILLING THAT CAN BE COMPLETED THE SAME
- E. WATER WHICH ACCUMULATES IN THE OPEN TRENCH WILL BE COMPLETELY REMOVED BY PUMPING BEFORE PIPE PLACEMENT AND / OR BACKFILLING BEGINS. WATER REMOVED FROM THE TRENCH SHALL BE PUMPED THROUGH A FILTRATION DEVICE. F. ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS AND IMMEDIATELY

SPECIAL GEOLOGIC AND SOIL CONDITIONS SPECIAL SOIL OR GEOLOGICAL ISSUES ARE KNOWN.

### **CONSTRUCTION SEQUENCE**

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 COUNTY CONSERVATION DISTRICT. TOWNSHIP ENGINEER/INSPECTOR, AND LICENSED PROFESSIONAL ENGINEER OR DESIGNEE TO AN ON-SITE PRE-CONSTRUCTION MEETING.

UPON INSTALLATION OR STABILIZATION OF ALL PERIMETER SEDIMENT CONTROL BMPS AND AT LEAST 3 DAYS PRIOR TO PROCEEDING WITH THE BULK EARTH DISTURBANCE ACTIVITIES, THE PERMITTEE OR CO-PERMITTEE SHALL PROVIDE NOTIFICATION

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

ALL FARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED BY THE TOWNSHIP PRIOR TO IMPLEMENTATION. EACH STEP OF THE SEQUENCE SHALL BE COMPLETED BEFORE PROCEEDING TO THE NEXT STEP, EXCEPT WHERE NOTED.

PRIOR TO EARTH DISTURBANCE ACTIVITY DESCRIBED IN ANY STEP OF THE CONSTRUCTION SEQUENCE, CLEAR AND GRUB AND STRIP TOPSOIL. STOCKPILE TOPSOIL IN THE DESIGNATED LOCATIONS.

UPON COMPLETION OR TEMPORARY CESSATION OF EARTH DISTURBANCE ACTIVITY, OR ANY STAGE THEREOF, THE PROJECT SITE SHALL BE IMMEDIATELY STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION.

### ANTICIPATED CONSTRUCTION START DATE: WINTER 2025 ANTICIPATED CONSTRUCTION END DATE: WINTER 2026

### BUILDING ADDITIONS & RENOVATIONS

- FIELD DELINEATE LIMITS OF DISTURBANCE PRIOR TO EARTH MOVING ACTIVITIES. 2. INSTALL TREE PROTECTION FENCING AND COMPOST FILTER SOCKS, NOTIFY THE TOWNSHIP ENGINEER FOLLOWING THE
- INSTALLATION OF PROTECTIVE MEASURES AND PRIOR TO EARTH DISTURBANCE. 3. INSTALL THE ROCK CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT AREA AS DEPICTED ON THE EROSION &
- SEDIMENTATION CONTROL PLANS. 4. THROUGHOUT CONSTRUCTION, THE CONTRACTOR SHALL ENSURE THAT ALL SITE STORM WATER, INCLUDING THAT COMING OFF OF THE ROCK CONSTRUCTION ENTRANCE (RCE). IS DIRECTED INTO AN E&S CONTROL BMP.
- 5. PRIOR TO DEMOLITION, ALL EXISTING UTILITIES TO BE RELOCATED (WATER, ELECTRIC, TELECOMMUNICATIONS, ETC.) ARE TO BE SHUT DOWN.
- PERFORM DEMOLITION ACTIVITIES, AS INDICATED ON THE PLANS. RELOCATE EXISTING UTILITIES AS NECESSARY. CLEAR AND GRUB, STRIP TOPSOIL AND STOCKPILE IN LOCATIONS SHOWN ON EROSION & SEDIMENTATION CONTROL PLAN. TEMPORARILY STABILIZE TOPSOIL STOCKPILE. PERFORM ROUGH GRADING.
- . BEGIN CONSTRUCTION OF THE BUILDING ADDITIONS. 10. CONTRACTOR SHALL GUARANTEE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS, WALLS, SIDEWALKS AND ADA RAMPS. 11. BEGIN CONSTRUCTION OF SWM #100 AND SWM #200. INSTALL STORMWATER MANAGEMENT FACILITIES WITH ASSOCIATED STORM STRUCTURES AND DISTRIBUTION PIPE.
- CRITICAL STAGE OF CONSTRUCTION: CONTACT ENGINEER PRIOR TO EXCAVATION AND FINAL GRADING OF SWM UG14—UG16. CONTACT ENGINEER PRIOR TO PLACEMENT OF GEOTEXTILE FABRIC, STONE AND DISTRIBUTION PIPE INSIDE SWM UG14-UG16.
- TEMPORARILY SEAL INLETS AS INDICATED ON THE PLANS. CONTRACTOR SHOULD ENSURE THAT NO SEDIMENT OR SEDIMENT LADEN RUNOFF IS ALLOWED TO ENTER THE INFILTRATION BMPS DURING SITE CONSTRUCTION. ONLY AFTER THE TRIBUTARY DRAINAGE AREA TO THE INFILTRATION BMPS IS FULLY STABILIZED (I.E. 70% STABILIZATION), CAN RUNOFF BE INTRODUCED TO THESE FACILITIES. IF SEDIMENT ENTERS THE STONE WITHIN THESE FACILITIES, THE STONE SHALL BE REMOVED AND REPLACED.
- 12. INSTALL REMAINING STORM STRUCTURES AND ASSOCIATED PIPES. IMMEDIATELY BLOCK/SEAL INLETS AS INDICATED ON THE PLANS. THESE INLETS MUST REMAIN BLOCKED/SEALED UNTIL THE TRIBUTARY DRAINAGE AREA ACHIEVES FINAL
- STABILIZATION. 13. BEGIN CONSTRUCTION OF THE PARKING SPACES & HARDSCAPE AREAS. STABILIZE WITH STONE BASE AS CONSTRUCTION ALLOWS.
- 14. FINALIZE BUILDING CONSTRUCTION. 15. FINE GRADE ALL PREVIOUSLY DISTURBED AREAS THAT ARE READY FOR FINAL STABILIZATION. STABILIZE WITH SEEDING AND HAY OR STRAW MULCH CONSISTENT WITH STABILIZATION CRITERIA.
- 16. INSTALL WEARING COURSE AND PAVEMENT STRIPING AS INDICATED ON THE PLANS AND DETAILS 17. COLLECT ALL SILT AND SEDIMENT DEPOSITS IN EROSION CONTROL DEVICES AND PLACE ON SITE IN NON-ERODIBLE AREAS. PERMANENTLY STABILIZE ALL DISTURBED AREAS. TEMPORARY EROSION CONTROLS MAY NOT BE REMOVED UNTIL

STABILIZATION IS ATTAINED (70% UNIFORM COVERAGE OF A PERENNIAL VEGETATIVE SPECIES).

18. UPON STABILIZATION OF ALL DISTURBED AREAS, REMOVE REMAINING SEDIMENT BARRIERS AND CONTROLS. IMMEDIATELY STABILIZE AREAS DISTURBED BY REMOVAL PROCESS IN ACCORDANCE WITH PERMANENT SEED AND MULCH SPECIFICATIONS.

### OPERATION AND MAINTENANCE PROCEDURE

### TEMPORARY EROSION AND SEDIMENT CONTROL BMPs

- 1. THE PERMITTEE SHALL BE RESPONSIBLE FOR THE PROPER CONSTRUCTION, STABILIZATION AND MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROL MEASURES. INSPECTION/MAINTENANCE OF THESE MEASURES SHALL BE CONDUCTED ON A WEEKLY BASIS AND AFTER EVERY MEASURABLE RAINFALL. A WRITTEN REPORT DOCUMENTING THE INSPECTION AND APPLICABLE REPAIRS SHALL BE KEPT ON SITE AND AVAILABLE FOR INSPECTION UPON REQUEST.
- 2. THE OPERATION AND MAINTENANCE REQUIREMENTS FOR THE TEMPORARY E&S BMPs FOR THIS PROJECT INCLUDE THE A. COMPOST FILTER SOCK SHALL BE INSPECTED/MAINTAINED TO ENSURE THAT THE WOODEN STAKES AND FABRIC FABRIC WHICH IS TORN, DISTENDED/DEFORMED COMPROMISED SHALL BE REPLACED. ALL MATERIAL DEPOSITED BEHIND THÉ COMPOST FILTER SOCK SHALL BE DISTRIBUTED ON SITE AND IMMEDIATELY STABILIZED USING SEED AND MULCH.
  - B. STABILIZED CONSTRUCTION ENTRANCE (SCE) THE SCE SHALL BE INSPECTED/MAINTAINED TO ENSURE THAT THE STRUCTURE CONFORMS TO THE STANDARD DETAIL. ROCK SHOULD BE MAINTAINED AT FULL DEPTH AND MAY REQUIRE REPLACEMENT AND/OR REDISTRIBUTION. MATERIAL DEPOSITED ON THE SCE SHALL BE DISTRIBUTED ON SITE AND IMMEDIATELY STABILIZED USING SEED AND MULCH.
  - C. INLET PROTECTION SHALL BE CLEARED AND CLEANED AFTER EACH RUNOFF EVENT, SEDIMENT SHALL BE DISTRIBUTED ON SITE AND IMMEDIATELY STABILIZED.
  - D. ROCK FILTER OUTLET IF INSTALLED, OUTLET SHALL BE INSPECTED/MAINTAINED TO ENSURE THAT MATERIAL IS NOT DISPLACED OR DAMAGED.

### STAGING OF EARTH MOVING ACTIVITIES

COMPLIANCE.

- 1. THE OVERALL SCHEDULE OF THE PROJECT IS THAT CONSTRUCTION WILL START APPROXIMATELY DURING WINTER, 2025. THE CONTRACTOR MAY SELECT HIS SCHEDULE FOR THE SPECIFIC PORTIONS OF THE PROJECT, UNLESS OTHERWISE
- 2. SPECIFIED EROSION CONTROL MEASURES AND FACILITIES INCLUDING BUT NOT LIMITED TO CONSTRUCTION ENTRANCES MUST BE INSTALLED AND BE OPERATIONAL PRIOR TO ANY EARTH MOVING ACTIVITIES WITHIN THE UPSLOPE DRAINAGE AREAS.
- 3. FOR PIPELINE CONSTRUCTION WITHIN DRIVEWAYS AND PAVED AREAS, THE FOLLOWING STAGES ARE TO BE IMPLEMENTED SEQUENTIALLY AS WORK PROCEEDS:
  - A. INSTALL INLET PROTECTION AND OTHER MEASURES AS SHOWN ON THE PLANS. THESE MEASURES SHALL BE INSTALLED AT LEAST 500 FEET AHEAD OF PIPE INSTALLATION.
  - B. EXCAVATE TRENCHES AND DISCHARGE MATERIAL DIRECTLY INTO TRUCKS. CLEAN UP SPILLAGE WITH EACH
  - C. INSTALL PIPELINE AND BACKFILL. EROSION CONTROL FACILITIES MAY BE REMOVED WHEN TEMPORARY OR PERMANENT REPAVING IS INSTALLED AND THE AREA HAS BEEN CLEANED OF ALL DEBRIS.
  - D. PLACE TEMPORARY PAVING OR GRAVEL SURFACE OVER TRENCH AT THE END OF EACH WORK DAY.

### EROSION CONTROL MAINTENANCE PROGRAM TEMPORARY

UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENTATION BMP'S MUST BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION BMP'S ON A DAILY BASIS AND AFTER EACH RUNOFF EVENT. ALL SITE INSPECTIONS SHALL BE DOCUMENTED IN AN INSPECTION LOG KEPT FOR THIS PURPOSE. THE COMPLIANCE ACTIONS AND THE DATE, TIME AND NAME OF THE PERSON CONDUCTING THE INSPECTION SHALL BE NOTED. THE INSPECTION LOG SHALL BE KEPT ON SITE AT ALL TIMES. AND MADE AVAILABLE TO  $\,$  THE TOWNSHIP UPON REQUEST.

ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEANOUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENTATION BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS OR MODIFICATIONS OF THOSE INSTALLED WILL BE NEEDED.

WHERE BMPS ARE FOUND TO FAIL TO ALLEVIATE EROSION AND SEDIMENTATION POLLUTION, THE CONTRACTOR SHALL INCLUDE THE FOLLOWING INFORMATION:

- A) THE LOCATION AND SEVERITY OF THE BMP'S FAILURE AND ANY POLLUTION EVENTS.
- B) ALL STEPS TAKEN TO REDUCE, ELIMINATE AND PREVENT THE RECURRENCE OF THE NON—COMPLIANCE. C) THE TIME FRAME TO CORRECT THE NON-COMPLIANCE, INCLUDING THE EXACT DATES WHEN THE ACTIVITY WILL RETURN TO

# **VEGETATIVE STABILIZATION NOTES**

SPRAY ON TYPE BLANKETS ARE RECOMMENDED.

- 1. AS DISTURBED AREAS WITHIN A PROJECT APPROACH FINAL GRADE, PREPARATIONS SHOULD BE MADE FOR SEEDING AND MULCHING TO BEGIN (I.E. ANTICIPATE THE COMPLETION DATE AND SCHEDULE THE SEEDER). IN NO CASE SHOULD AN AREA EXCÈEDING 15.000 SQUARE FEET, WHICH IS TO BE STABILIZED BY VEGETATION, REACH FINAL GRADE WITHOUT BEING SEEDED AND MULCHED. WAITING UNTIL EARTHMOVING IS COMPLETED BEFORE MAKING PREPARATIONS FOR SEEDING AND MULCHING IS NOT ACCEPTABLE. THIS REQUIREMENT SHOULD BE CLEARLY STATED IN THE SEEDING AND MULCHING SPECIFICATIONS CONTAINED ON THE PLAN DRAWINGS.
- 2. BEFORE THE SEEDING BEGINS, TOPSOIL SHOULD BE APPLIED AND ANY REQUIRED SOIL AMENDMENTS WORKED INTO THE SOIL TO A DEPTH OF 4 TO 6 INCHES. IF COMPOST IS TO BE ADDED TO THE TOPSOIL IT SHOULD BE WORKED INTO THE SOIL WITH THE OTHER SOIL AMENDMENTS UNLESS IT IS BEING APPLIED AS AN EROSION CONTROL BMP.
- 3. UPON COMPLETION OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE ACTIVITY IN A SPECIAL PROTECTION WATERSHED, THAT PORTION OF THE PROJECT SITE TRIBUTARY TO THE SPECIAL PROTECTION WATERS MUST BE IMMEDIATELY STABILIZED. IN ALL OTHER WATERSHEDS, CESSATION OF ACTIVITY FOR AT
- LEAST 4 DAYS REQUIRES TEMPORARY STABILIZATION. 4. SURFACE ROUGHENING SHOULD BE APPLIED TO SLOPES 3H:1V OR STEEPER UNLESS A STABLE ROCK FACE IS PROVIDED OR IT CAN BE SHOWN THAT THERE IS NOT A POTENTIAL FOR SEDIMENT POLLUTION TO SURFACE WATERS. FOR ROUGHENED SURFACES WITHIN 50 FEET OF A SURFACE WATER, AND WHERE

BLANKETING OF SEEDED AREAS IS PROPOSED AS THE MEANS TO ACHIEVING PERMANENT STABILIZATION,

- 5. FILL SLOPES SHOULD BE SEEDED AND MULCHED AT REGULAR VERTICAL INCREMENTS 15 TO 25 FEET MAXIMUM - AS THE FILL IS BEING CONSTRUCTED. THIS WILL ALLOW THE BOTTOM OF THE FILL TO PROGRESS TOWARD STABILIZATION WHILE WORK CONTINUES ON THE UPPER PORTION, MAKING FINAL STABILIZATION EASIER TO ACHIEVE AND PROVIDING SOME VEGETATIVE BUFFERING AT THE BOTTOM OF THE
- 6. WHEREVER SEED AND MULCH IS APPLIED BY HYDROSEEDING METHODS, THE SEED AND MULCH SHOULD BE APPLIED IN SEPARATE APPLICATIONS WITH THE SEED BEING APPLIED FIRST AND THE MULCH SPRAYED ON TOP OF THE SEED. THIS IS TO ENSURE THAT THE SEED MAKES CONTACT WITH THE UNDERLYING SOIL SOIL PREPARATION SHOULD BE COMPLETED PRIOR TO ADDING SEED TO THE HYDROSEEDING EQUIPMENT. RUNNING SEED THROUGH THE PUMPING SYSTEM CAN RESULT IN EXCESSIVE ABRASION OF THE SEED AND REDUCE THE PERCENTAGE OF PURE LIVE SEED IN THE APPLICATION. THEREFORE ALL SITE PREPARATION SHOULD BE COMPLETED PRIOR TO THE ARRIVAL OF THE HYDROSEEDER.
- 7. IN CRITICAL AREAS (E.G. ADJACENT TO OR WITHIN 50 FEET OF STREAMS, PONDS, OR WETLANDS) A PROTECTIVE BLANKET SHOULD BE PROVIDED FOR ALL SEEDED AREAS. CONSIDERATION SHOULD BE GIVEN TO USE OF MULCH WITH NETTING OR PROTECTIVE BLANKETS FOR ALL SEEDED AREAS ON SLOPES 3H:1V OR
- 8. VEHICULAR TRAFFIC SHOULD BE RESTRICTED FROM AREAS TO BE SEEDED TO PREVENT SOIL COMPACTION.
- 9. AS SOON AS SLOPES, CHANNELS, DITCHES AND OTHER AREAS DISTURBED DURING CONSTRUCTION. REACH FINAL GRADE, STABILIZE IMMEDIATELY, IN ACCORDANCE WITH SEEDING, MULCHING AND STABILIZATION SPECIFICATIONS.
- 10. NO MORE THAN 15,000 SQUARE FEET OF DISTURBED AREA REACH FINAL GRADE BEFORE INITIATING SEEDING AND MULCHING OPERATIONS.
- 11. CESSATION OF ACTIVITY FOR 4 DAYS OR LONGER REQUIRES TEMPORARY STABILIZATION.

### SOIL TYPE USE LIMITATIONS AND RESOLUTIONS

CONSERVATION PLANTINGS ON NONCROPLAND PUBLISHED BY PENN STATE.

- 1. SOIL TYPES POORLY SUITED AS SOURCES OF TOPSOIL RESTRICT OR PLACE CONDITIONS ON PLANNING VEGETATIVE STABILIZATION. ACIDIC, LOW FERTILITY, EXCESSIVE DRYNESS AND EXCESSIVE WETNESS LIMIT PLANT GROWTH. RESOLUTIONS: IDENTIFYING AND RESOLVING CHARACTERISTICS, THAT RENDER THE SOIL TYPES POORLY, SUITED AS
- ACIDIC SOIL TYPES EXHIBITING PH REACTION VALUES LOWER THAN ABOUT 5.5, LIMIT VEGETATIVE STABILIZATION. SOIL TESTS MIGHT BE NECESSARY TO DETERMINE SITE SPECIFIC PH REACTION. RESOLUTIONS: APPLYING LIME CONSISTENT WITH RATES DETERMINED BY SOIL TESTING; SELECTING VEGETATIVE SPECIES TOLERANT TO ACIDIC SOIL CONDITIONS; AND IMPLEMENTING COMBINATIONS OF THESE AND/OR OTHER METHODS. SPECIFIC TOLERANCE INFORMATION IS PROVIDED IN TABLE 1 OF THE EROSION CONTROL &
- LOW FERTILITY SOIL TYPES LACKING IN SUFFICIENT AMOUNTS OF ESSENTIAL PLANT NUTRIENTS SUCH AS: NITROGEN. PHOSPHOROUS. POTASSIUM. SULFER, MAGNESIUM. CALCIUM, IRON, MANGANESE, BORON, CHLORINE, ZINC. COPPER AND MOLYBDENUM, LIMIT VEGETATION STABILIZATION. SOIL TESTS MIGHT BE NECESSARY TO DETERMINE SITE SPECIFIC SOIL FERTILITY
- RESOLUTIONS: INCORPORATING SOIL NUTRIENTS CONSISTENT WITH RATES DETERMINED BY SOIL TESTING; SELECTIVE VEGETATIVE SPECIES TOLERANT TO LOW FERTILITY SOIL CONDITIONS, AND IMPLEMENTING COMBINATIONS OF THESE AND OR OTHER METHODS. SPECIFIC TOLERANCE INFORMATION IS PROVIDED IN TABLE 1 OF THE FROSION CONTROL & CONSERVATION PLANTINGS ON NONCROPLAND PUBLISHED BY PENN STATE.
- ERODIBLE SOIL TYPES EXHIBITING K VALUES GREATER THAN 0.36 OR PLASTICITY INDEX VALUES LOWER THAN 10, LIMIT VEGETATIVE STABILIZATION OF CHANNELS.
- RESOLUTIONS: PROVIDING TEMPORARY CHANNEL LINING, PROVIDING PERMANENT CHANNEL LINING, DECREASING CHANNEL GRADE, INCREASING CHANNEL WIDTH, SELECTING VEGETATIVE WITH GREATER RETARDANCE, SELECTING PERMANENT LININGS OTHER THAN GRASSES, AND IMPLEMENTING COMBINATION OF THESE AND/OR METHODS. VEGETATIVE RETARDANCE INFORMATION IS PROVIDED IN TABLES 6 AND 7 OF THE EROSION AND SEDIMENT POLLUTION CONTROL MANUAL PUBLISHED BY PADEP.
- WET SOIL TYPES HAVE EXCESSIVE ROOT ZONE AND SOIL MOISTURES. SOME SOIL SURVEYS INDICATE WETNESS, HIGH WATER TABLE AND FLOODING. THIS INDICATOR IS AFFECTED BY SOIL DISTURBANCE. RESOLUTIONS: SELECTING VEGETATIVE SPECIES TOLERANT TO WET CONDITIONS, TILING VEGETATIVE AREAS, AND
- IMPLEMENTING COMBINATIONS OF THESE AND/OR OTHER METHODS. SPECIFIC TOLERANCE INFORMATION IS PROVIDED IN TABLE 1 OF THE EROSION CONTROL & CONSERVATION PLANTINGS ON NONCROPLAND PUBLISHED BY DRY SOIL TYPES LACK SUFFICIENT ROOT ZONE SOIL MOISTURES. THIS INDICATOR IS AFFECTED BY SOIL
- DISTURBANCE. RESOLUTIONS: SELECTING VEGETATIVE SPECIES TOLERANT TO DRY CONDITIONS, IRRIGATING VEGETATED AREAS AND IMPLEMENTING COMBINATION OF THESE AND/OR OTHER METHODS. SPECIFIC TOLERANCE INFORMATION IS PROVIDED IN TABLE 1 OF THE EROSION CONTROL & CONSERVATION PLANTINGS ON NONCROPLAND PUBLISHED BY
- PENN STATE. SOIL TYPES SUSCEPTIBLE TO SINKHOLE AND SOLUTION CHANNEL/CHAMBER FORMATION POSE LIMITATIONS ON LOCATING RESERVOIR AREAS OF SEDIMENT BASINS, SEDIMENT TRAPS, STORMWATER RETENTION BASINS, AND STORMWATER DETENTION BASINS.
- RESOLUTIONS: LOCATING THOSE FACILITIES ON OTHER SOIL TYPES, LINING RESERVOIR AREAS WITH IMPERMEABLE LININGS, LIMITING STANDING WATER DEPTHS, LIMITING RETENTION TIMES AND IMPLEMENTING COMBINATIONS OF THESE AND OR OTHER METHODS. SOIL TYPES THAT EXHIBIT INSTABILITY IN POND EMBANKMENTS OR SUSCEPTIBILITY TO PIPING AND SEEPING POSE
- LIMITATIONS ON PLANNING EMBANKMENTS OF SEDIMENT BASINS, SEDIMENT TRAPS, STORMWATER RETENTION RESOLUTIONS: IMPORTING OTHER SOIL FOR EMBANKMENT OF THOSE FACILITIES, LOCATING THOSE FACILITIES ON
- OTHER SOIL TYPES, LIMITING EMBANKMENT SLOPE STEEPNESS AND IMPLEMENTING COMBINATIONS OF THESE AND/OR OTHER METHODS. SOILS THAT ARE DIFFICULT TO COMPACT, UNSUITABLE FOR WINTER GRADING, OR SUSCEPTIBLE TO FROST ACTION
- RETENTION BASINS AND STORMWATER DETENTION BASINS. RESOLUTIONS: IMPORTING OTHER SOIL FOR EMBANKMENT OF THOSE FACILITIES, LOCATING THOSE FACILITIES ON OTHER SOILS TYPES, NOT CONSTRUCTING EMBANKMENTS DURING PERIODS PRONE TO FROST AND IMPLEMENTING

POSE LIMITATIONS ON PLANNING EMBANKMENTS OF SEDIMENT BASINS, SEDIMENT TRAPS, STORM WATER

### DISPOSAL AND RECYCLING

CONTRACTOR IS RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL DEMOLISHED OR UNUSED CONSTRUCTION MATERIALS. GARBAGE SHALL BE COLLECTED ON-SITE UNTIL RETRIEVED BY AN APPROVED DISPOSAL OR RECYCLING COMPANY, CONTRACTOR SHALL NOT INCINERATE EXCESS MATERIALS.

LIKELY WASTE TO BE GENERATED AT THIS SITE: UNUSED CONCRETE TO BE PLACED IN CONCRETE WASHOUT AREAS;

COMBINATIONS OF THESE AND/OR OTHER METHODS.

 EXCESS SILT SOCK AND FENCING MATERIALS; GENERAL RUBBISH AND DEBRIS

### THERMAL IMPACTS

FOR CONSTRUCTION.

STORMWATER RUNOFF.

HE RUNOFF FROM THE PROJECT AREA THAT OUTLETS TO SURFACE WATERS OR EXISTING STORM SEWER FLOWS THROUGH COMPOST FILTER SOCKS.

INTERCEPTING THE RUNOFF WITH THE ONSITE TEMPORARY BMP'S WILL TEMPORARILY STORE THE SEDIMENT LADEN WATER BEHIND THE PROPOSED E&S MEASURES AND SLOWLY ALLOW CLEAN WATER TO FILTER THROUGH (I.E. REDUCING FLOW RATE AND VELOCITY). THE NATURAL COOLING EFFECTS OF FILTERING SEDIMENT LADEN WATER WILL HELP TO DISSIPATE THE HEAT ENERGY ABSORBED BY THE STORMWATER.

### EROSION AND SEDIMENT CONTROL PLAN OBJECTIVES

- 1. FIT THE LAND-DISTURBING ACTIVITY TO THE TERRAIN THROUGH MATCHING PROPOSED GRADES AS CLOSE TO EXISTING AS POSSIBLE. 2. MINIMIZE BARE SOIL EXPOSURE AND THE EXTENT AND DURATION OF EARTH DISTURBANCE THROUGH THE USF OF TEMPORARY STABILIZATION TECHNIQUES AND A DETAILED CONSTRUCTION SEQUENCE.
- 3. RETAIN EXISTING VEGETATION WHENEVER FEASIBLE AND APPROPRIATE BY MAXIMIZING PROTECTION OF EXISTING DRAINAGE FEATURES AND VEGETATION. 4. MINIMIZE SOIL COMPACTION BY DELINEATING LIMITS OF DISTURBANCE IN ONLY THOSE AREAS NECESSARY
- 5. STABILIZE DISTURBED AREAS IMMEDIATELY AFTER GRADING WITH TEMPORARY SEEDING AND MULCHING. 6. DIRECT RUNOFF AWAY FROM BARE SOIL AREAS. MINIMIZE LENGTH AND STEEPNESS OF SLOPES BY IMPLEMENTING THE APPROPRIATE TEMPORARY E&S BMP. 8. UTILIZE OTHER MEASURES OR CONTROLS THAT PREVENT OR MINIMIZE GENERATION OF INCREASED
- 9. PREPARE DRAINAGE WAYS AND OUTLETS TO HANDLE INCREASED RUNOFF AND CONCENTRATION FLOWS. 10. REDUCE SEDIMENTATION BY APPLYING EROSION CONTROL AND WATER QUALITY PRACTICES ON-SITE. 11. AVOID, MINIMIZE OR MITIGATE THERMAL IMPACTS.

### SEEDING AND MULCHING SPECIFICATIONS

SEEDING SHALL BE ANNUAL RYE GRASS APPLIED AT 48 LBS. PER ACRE. LIMING TO BE APPLIED AT 1 TON/ACRE.

### 10-10-10 FERTILIZER TO BE APPLIED AT 500 LBS./ACRE HAY OR STRAW MULCH TO BE APPLIED AT 3 TONS/ACRE.

### LIMING TO BE APPLIED AT 6 TON/ACRE.

10-20-20 FERTILIZER TO BE APPLIED AT 1000 LBS./ACRE HAY OR STRAW MULCH TO BE APPLIED AT 3 TONS/ACRE.

### NON-STEEP AREAS < 3:1, HIGHLY MAINTAINED AND MOWED, USE ONLY ON TOP SOIL AREAS. • SEEDING SHALL BE 50% KENTUCKY BLUEGRASS, 30% RED FESCUE, AND 20% PERENNIAL RYE GRASS, AT A RATE

OF 21 LBS. PER 1000 SQUARE YARDS.

TRAPS, BASINS AND STOCKPILES MUST BE SEEDED AND MULCHED IMMEDIATELY.

CONTRACTOR SHALL VERIFY PERMANENT SEEDING CRITERIA WITH OWNER PRIOR TO APPLICATION.

### SLOPES STEEPER THAN 3:1, NO-MOW AREAS • THERE ARE NO AREAS OF NO-MOW STEEP SLOPE ON THIS PROJECT.

THE NON-GERMINATING PERIODS ARE BETWEEN JUNE 15 THRU AUGUST 15, AND SEPTEMBER 30 THRU APRIL 15. AREAS DISTURBED DURING THESE PERIODS MUST BE LIMED, FERTILIZED, SEEDED AND MULCHED WITHIN TWENTY (20)

- DAYS OF THE ENDING OF THOSE PERIODS. ALL SEED MIXTURES SHALL HAVE A MINIMUM LIVE SEED AND GERMINATION PERCENTAGE OF 85% TO 95%. TOPSOIL TAKEN FROM CONSTRUCTION AREAS SHALL BE SEEDED WITH VEGETATIVE COVER AND STOCKPILED FOR
- RE-USE IN FINISH GRADING. THERE IS TO BE NO EARTH DISTURBANCE OR VEGETATIVE CLEARING IN AREAS OF STAKED (OR FENCED) WETLANDS. EARTH DISTURBANCE WITHIN THESE AREAS WITHOUT THE REQUIRED PERMITS WILL RESULT IN POTENTIAL VIOLATION OF COMMONWEALTH AND FEDERAL WETLANDS REGULATIONS. 4. ANY DISTURBED AREA ON WHICH ACTIVITY HAS CEASED AND WHICH WILL REMAIN EXPOSED MUST BE SEEDED AND MULCHED IMMEDIATELY. DISTURBED AREAS WHICH ARE NOT A FINISHED GRADE AND WHICH WILL BE RE-DISTURBED

# MULCHING NOTES

- ALL SEEDED AREAS SHOULD BE MULCHED OR BLANKETED TO MINIMIZE THE POTENTIAL FOR FAILURE TO ESTABLISH AN ADEQUATE VEGETATIVE COVER. MULCHING MAY ALSO BE USED AS A TEMPORARY STABILIZATION OF SOME
- DISTURBED AREAS IN NON-GERMINATING SEASONS. STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKIFIED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN, A TRACTOR-DRAWN IMPLEMENT MAY BE USED TO "CRIMP" THE STRAW OR HAY INTO THE SOIL -ABOUT 3 INCHES. THIS METHOD SHOULD BE LIMITED TO SLOPES NO STEEPER THAN 3H: 1V. THE MACHINERY SHOULD BE OPERATED ON THE CONTOUR. NOTE: CRIMPING OF HAY OR STRAW BY RUNNING OVER IT WITH TRACKED MACHINERY IS NOT RECOMMENDED.

WITHIN ONE (1) 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 RE-DISTURBED WITHIN ONE (1

YEAR MUST BE SEEDED AND MULCHED WITH A PERMANENT SEED MIXTURE AND MULCH. CHANNELS, SEDIMENTATION

- 3. POLYMERIC AND GUM TACKIFIERS MIXED AND APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS MAY BE USED TO TACK MULCH. AVOID APPLICATION DURING RAIN AND ON WINDY DAYS. A 24-HOUR CURING PERIOD AND A SOIL TEMPERATURE HIGHER THAN 45 DEG. FAHRENHEIT ARE TYPICALLY REQUIRED. APPLICATION SHOULD BE GENERALLY BE HEAVIEST AT EDGES OF SEEDED AREAS AND AT CRESTS OF RIDGES AND BANKS TO PREVENT LOSS BY WIND. THE REMAINDER OF THE AREA SHOULD HAVE BINDER APPLIED UNIFORMLY. BINDERS MAY BE APPLIED AFTER MULCH IS SPREAD OR SPRAYED INTO THE MULCH AS IT IS BEING BLOWN ONTO THE SOIL. APPLYING STRAW
- AND BINDER TOGETHER IS GENERALLY MORE EFFECTIVE. 4. SYNTHETIC BINDERS, OR CHEMICAL BINDERS, MAY BE USED AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH PROVIDED SUFFICIENT DOCUMENTATION IS PROVIDED TO SHOW THEY ARE NON-TOXIC TO NATIVE PLANT AND
- ANIMAL SPECIES. 5. MULCH ON SLOPES OF 8% OR STEEPER SHOULD BE HELD IN PLACE WITH NETTING. LIGHTWEIGHT PLASTIC, FIBER, OR PAPER NETS MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO KEEP BASIN SEEDING UNIFORMLY SPREAD THROUGHOUT BASIN BOTTOM IN THE EVENT SEEDS COLLECT IN ONE AREA OR DISCHARGE FROM THE BASIN, THE CONTRACTOR SHALL RE-SEED, REMULCH AND SECURE SEED/MULCH WITH THE APPROPRIATE LIGHTWEIGHT PLASTIC, FIBER OR PAPER NETTING, IN
- ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. 7. SHREDDED PAPER HYDROMULCH SHOULD NOT BE USED ON SLOPES STEEPER THAN 5%. WOOD FIBER HYDROMULCH MAY BE APPLIED ON STEEPER SLOPES PROVIDED A TACKIFIER IS USED. THE APPLICATION RATE FOR ANY HYDROMULCH SHOULD BE AS NOTED IN THE MULCHING CHART (SEE THIS SHEET).

### TOPSOIL APPLICATION NOTES

DEPRESSIONS ARE PART OF THE PCSM PLAN.

1. GRADED AREAS SHOULD BE SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SURFACE AREAS AND TO PROVIDE A ROUGHENED SURFACE TO PREVENT TOPSOIL FROM SLIDING DOWN SLOPE.

- TOPSOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE DISTURBED AREA TO A DEPTH OF SIX (6) INCHES MINIMUM. SPREADING SHOULD BE DONE IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL PREPARATION OR TILLAGE. IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOIL PLACEMENT SHOULD BE CORRECTED IN ORDER TO PREVENT FORMATION OF DEPRESSIONS UNLESS SUCH
- TOPSOIL SHOULD NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDED PREPARATION. COMPACTED SOILS SHOULD BE SCARIFIED 6 TO 12 INCHES ALONG CONTOUR WHEREVER POSSIBLE PRIOR TO SEEDING.

### SOIL AMENDMENT APPLICATION RATE EQUIVALENTS

	PERMANENT SE	EDING APPLICATION		
SOIL AMENDMENT	PER ACRE	PER 1,000 SF	PER 1,000 SY	
AGRICULTURAL LIME	6 TONS	240 LB.	2,480 LB.	OR AS PER SOIL TEST; MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS
10-20-20 FERTILIZER	1,000 LB	25 LB.	210 LB.	OR AS PER SOIL TEST; MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS
	N RATE (MIN.)			
AGRICULTURAL LIME	1 TON	40 LB.	410 LB.	TYPICALLY NOT REQUIRED FOR TOPSOIL STOCKPILES
10-10-10 FERTILIZER	500 LB.	12.5 LB.	100 LB.	TYPICALLY NOT REQUIRED FOR TOPSOIL STOCKPILES

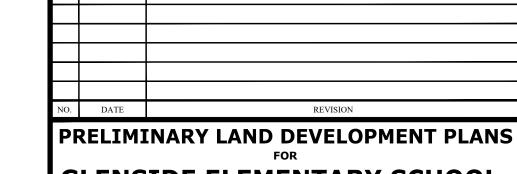
# MULCH APPLICATION RATES

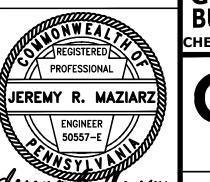
	APF	PLICATION RATE (N	IIN.)	
MULCH TYPE	PER ACRE	PER 1,000 SF	PER 1,000 SY	
STRAW	3 TONS	140 LB.	1,240 LB.	EITHER WHEAT OR OAT STRAW, FREE OF WEEDS, NOT CHOPPED OR FINELY BROKE
HAY	3 TONS	140 LB.	1,240 LB.	TIMOTHY, MIXED CLOVER AND TIMOTHY OR OTHER NATIVE FORAGE GRASSES
WOOD CHIPS	4-6 TONS	185–275 LB.	1,650-2,500 LB.	MAY PREVENT GERMINATION OF GRASSES AND LEGUMES
HYDROMULCH	1 TON	47 LB.	415 LB.	SEE LIMITATIONS ABOVE

### TOPSOIL APPLICATION RATES

DEPTH	(IN)	PER 1,000 SF	PER ACRE
1		3.1 CY	134 CY
2		6.2 CY	268 CY
3		9.3 CY	403 CY
4		12.4 CY	537 CY
5		15.5 CY	672 CY
6		18.6 CY	806 CY
7		21.7 CY	940 CY
8		24.8 CY	1,074 CY

EROSION & SEDIMENTATION CONTROL NOTES





GLENSIDE ELEMENTARY SCHOOL **BUILDING ADDITIONS & RENOVATIONS** CHELTENHAM TWP. - MONTGOMERY COUNTY - PENNSYLVANIA



ASSESSMENT MAP BLOCK: 137 UNIT 39

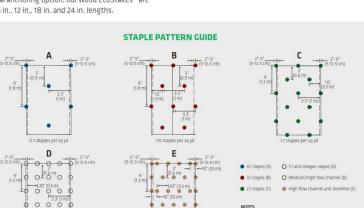
### Installation Made Easy

erosion control products can't function to their full potential without proper installation and anchoring, North American Green supplies a wide variety of fastener options for nearly every application and soil type.

means to fasten RollMax™ System Rolled Erosion Control Products (RECPs). Available in 6 in., 8 in., 10 in. and 12 in. lengths, our U-shaped staples reach various depths to ensure

top pins are available.

Our biodegradable BioStakes® are available in 4 in. and 6 in. lengths and provide an environmentally friendly alternative to metal staples. For an even more durable, deeper reaching Software (ECMDS®), www.ecmds.com yet all-natural anchoring option, our wood EcoStakes® are



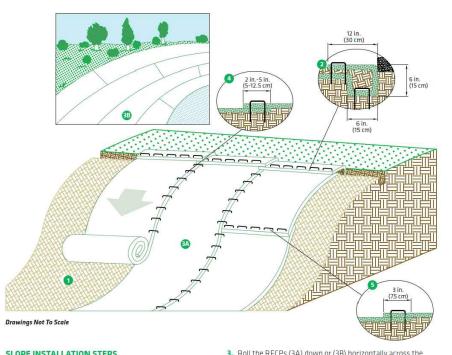
### Slope Installation

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The following slope guide outlines general recommendations for installing RollMax™ System temporary and/or permanent RECPs on sloping applications. Consult the staple pattern guide (Figure 1) for fastener spacing recommendations based on the slope severity.

. . . .



### SLOPE INSTALLATION STEPS application of lime fertilizer and seed

2. Begin at the top of the slope by anchoring the RECPs in a 6 in. (15 cm) deep x 6 in. (15 cm) wide trench with approximately 12 in. (30 cm) of RECPs extended beyond the upslope portion of the trench. Anchor the RECPs with a row of staples/stakes approximately 12 in. (30 cm) apart in the

bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12 in. (30 cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted

surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide. 4. The edges of parallel RECPs must be stapled with an

approximately 2 in.-5 in. (5-12.5 cm) overlap depending on Consecutive RECPs spliced down the slope must be end over-end (shingle style) with an approximate 3 in. (7.5 cm) overlap. Staple through overlapped area, approximately

12 in. (30 cm) apart across entire RECPs width.\*

slope. RECPs will unroll with appropriate side against the

12 in. (30 cm) apart across the width of the RECPs.

USE NAG S75 WITH STAPLE PATTERN "C"

# COMPOST FILTER SOCK

COMPOST FILTER SOCK

SECTION A-A 1. PLACE STOCKPILES AT LOCATIONS AS SHOWN ON THE EROSION AND

SEDIMENTATION CONTROL PLAN. ALL SIDE SLOPES SHALL BE 2 TO 1 OR FLATTER. STOCKPILE SHALL RECEIVE A VEGETATIVE COVER IN ACCORDANCE WITH MINIMUM STABILIZATION REQUIREMENTS.

COMPOST FILTER SOCK SHALL BE INSTALLED AS DETAILED HEREON. . LOCATION OF PROPOSED STOCKPILE WHICH AFFECT EROSION CONTROLS ARE SHOWN SCHEMATICALLY ONLY. ACTUAL STOCKPILE LOCATION MAY CHANGE DURING CONSTRUCTION. 6. STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET.

<u>STOCKPILE DETAIL</u>

For severe applications needing the ultimate, long-lasting hold, try our 12 in, and 18 in, rebar staples, our 12 in, plastic oreMax® stakes, or our complete line of percussion earth anchors. The earth anchors reach deep into the soil strata to offer enhanced anchoring in the worst conditions. Our variety of earth anchors are designed for durability and holding power

For use in cohesive soils, wire staples are a cost-effective adequate pull-out resistance. For installation using our handy

Pin Pounder installation tool, 6 in. V-top staples or 6 in. circle

Proper staple patterns must be used to achieve optimal results in RECP installation. We recommend the followin general stapling patterns as guidance for use with our RECPs as seen in (Figure 1). Site-specific staple pattern recommendations based on soil type and severity of application may

under extreme hydraulic stresses and adverse soil conditions

EARTHEN BERM TO BE STABILIZED WITH TEMPORARY OR

PERMANENT VEGETATION -STORM NLET

ISOMETRIC VIEW

FOR BAG

FROM INLET

REMOVAL

6" MIN. HEIGHT **ELEVATION VIEW** PLAN VIEW

EXPANSION RESTRAINT

2" × 2" × 3/4"

RUBBER BLOCK

**INSTALLATION DETAIL** 

(1/4" NYLON ROPE)

## FILTER BAG INLET PROTECTION - TYPE M INLET DETAIL

### 1. MAXIMUM DRAINAGE AREA = $\frac{1}{2}$ ACRE.

- 2. INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL
- 3. ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENTLY.
- 4. AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.
- 5. INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

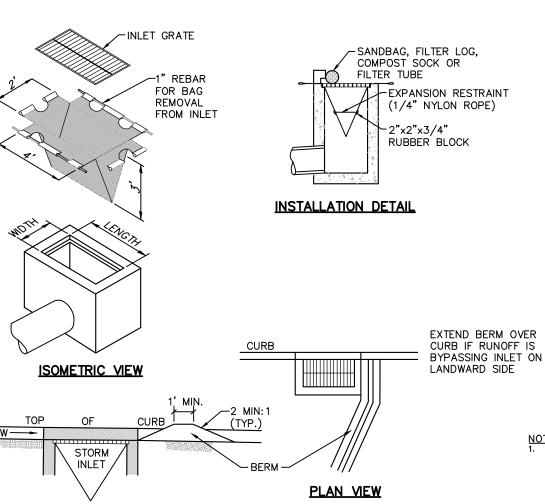
DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

# MOUNTABLE BERM — MIN. 8"AASHTO #1 **EXISTING** ROADWAY GEOTEXTILE--EARTH FILL -PIPE AS NECESSARY **PROFILE** ROADWAY 50' MINIMUM PLAN VIEW

- \* MOUNTABLE BERM USED TO PROVIDE COVER FOR PIPE.
- . 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.
- 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.

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 NOT ACCEPTABLE. **ROCK CONSTRUCTION ENTRANCE DETAIL** 



FILTER BAG INLET PROTECTION - TYPE C INLET DETAIL

2. INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO

SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL

4. AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE

3. ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED.

ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED.

SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL

STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A

MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL

BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE

EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED

BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE

FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED

AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING

WASH RACK-

6' (MIN.)

ROCK CONSTRUCTION ENTRANCE WITH WASH RACK DETAIL

1. WASH RACK SHALL BE 20 FEET (MIN.) WIDE OR TOTAL WIDTH OF ACCESS.

2. WASH RACK SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE

3. A WATER SUPPLY SHALL BE MADE AVAILABLE TO WASH THE WHEELS OF ALL VEHICLES EXITING THE SITE.

TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK

UNDER WASH RACK SHALL BE KEPT OPEN AT ALL TIMES. DAMAGE TO THE

ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED

MATERIAL SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. DRAIN SPACE

WASH RACK SHALL BE REPAIRED PRIOR TO FURTHER USE OF THE RACK. ALL

THE CONSTRUCTION SITE IMMEDIATELY. WASHING THE ROADWAY OR SWEEPING

SEDIMENT DEPOSITED ON ROADWAYS SHALL BE REMOVED AND RETURNED TO

THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER

←DRAIN SPACE

AASHTO #1 ROCK (8" THICK)-EXTENDING 25' MIN. ON BOTH APPROACHES TO WASH RACK

REINFORCED CONCRETE

ANTICIPATED CONSTRUCTION VEHICULAR TRAFFIC.

DRAINAGE COURSES IS NOT ACCEPTABLE.

OR WELDED STEEL PIPE

WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED

IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT

**INSTALLATION DETAIL** 

GRATE 2'x2' or 2'x4'

1*/2*" MARINF

GRADE PLYWOOD

-WATERPROOF SEAL EXTERIOR GRADE CAULK OR APPROVED EQUAL

INLET TEMPORARY SEAL DETAIL

N.T.S.

5. INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER

**ELEVATION VIEW** 

INSTALLATIONS.

1. MAXIMUM DRAINAGE AREA = ½ ACRE

MAY CAUSE TRAFFIC HAZARDS.

ROADWAY SURFACE RECEIVES FINAL COAT

# <u>PUMPED WATER FILTER BAG WITH COMPOST SOCK DETAIL</u>

WELL VEGETATED, GRASSY AREA

FILTER BAG

COMPOST FILTER SOCK

FILTER BAG

NOTES:

1. LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

ELEVATION VIEW

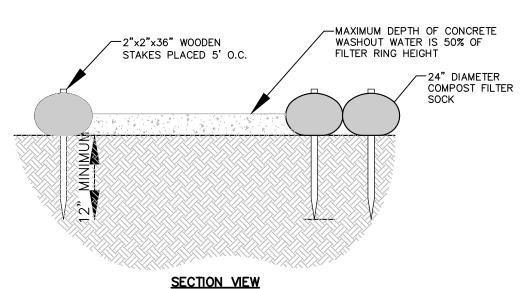
WELL VEGETATED, GRASSY AREA

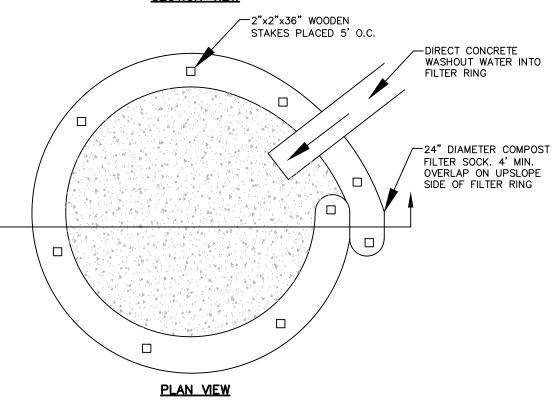
— DISCHARGE HOSE

PROPERTY	TEST METHOD	MINIMUM STANDARD
/G. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

- 2. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME ½ FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.
- 3. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.
- 4. NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.
- 5. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE. 6. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR ½ THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

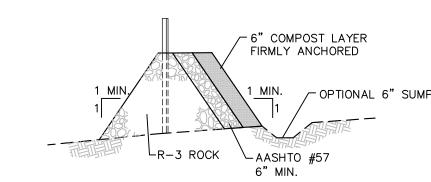
# 7. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

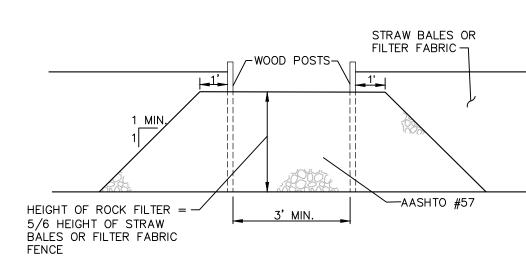




### COMPOST FILTER SOCK CONCRETE WASHOUT DETAIL

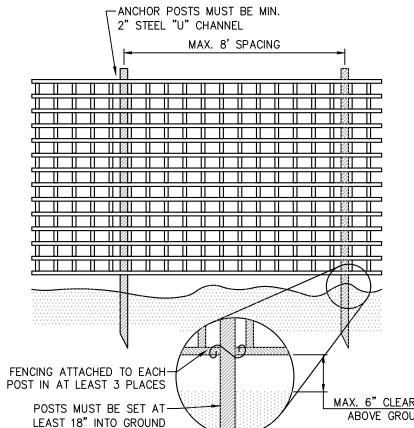
INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE. 18" DIAMETER SILT SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SILK SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT. . A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.





### **UP-SLOPE FACE** ROCK FILTER OUTLET DETAIL

2. IF INSTALLED, INSPECT WEEKLY AND AFTER EACH RUNOFF EVENT. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE



FENCE

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 / LANDSCAPE ARCHITECT. FENCING OR BARRIERS SHALL BE PLACED AS NOTED BELOW, UNLESS PRIOR DETERMINATION HAS BEEN MADE BY THE TOWNSHIP ENGINEER / LANDSCAPE ARCHITECT REGARDING A MORE APPROPRIATE

TREE PROTECTION FENCE DETAIL

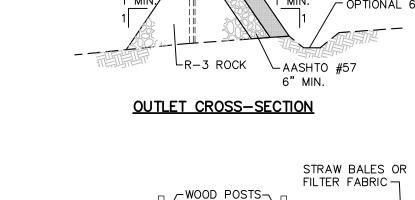
**DESCRIPTION:** TREES ARE OFTEN DAMAGED BY MOVING CONSTRUCTION EQUIPMENT OR BY SEDIMENT BUILDUP AROUND THE ROOTS. TREE PROTECTION FENCING, WHEN PLACED ALONG OR AROUND TREES, SERVES AS A BOUNDARY MARKER TO INDICATE THAT CLEARING AND STOCKPILING ARE NOT PERMITTED BEYOND THAT POINT.

WHEN USED: TREE PROTECTION FENCE MAY BE USED WHENEVER THERE ARE SPECIFIC TREES OR WOODED AREAS THAT MUST BE PROTECTED. REQUIREMENTS FOR INSTALLATION: THE TREE PROTECTION FENCE

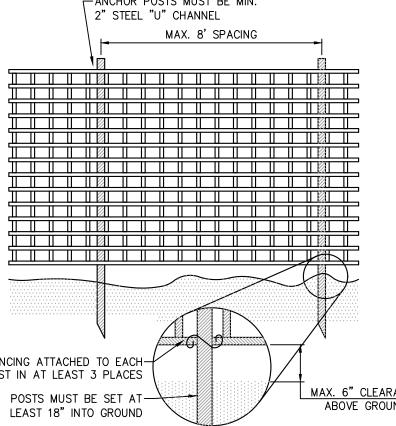
IS INSTALLED BY HAMMERING WOOD OR METAL STAKES INTO THE GROUND AND CONNECTING THE FENCING MATERIAL SECURELY TO THE POSTS PER THE MANUFACTURERS' INSTRUCTIONS. PLACE THE TREE PROTECTION FENCE ALONG THE DRIPLINES OF TREES OR 1

FOOT FROM THE TREE TRUNK FOR EVERY INCH OF TRUNK DIAMETER, WHICHEVER IS GREATER. A DRIPLINE IS AN IMAGINARY LINE EXTENDING DOWN FROM THE OUTER-MOST BRANCHES OF A TREE TO THE GROUND. THIS IS GENERALLY THE OUTER BOUNDARY FOR TREE ROOTS. IF THE TREE PROTECTION FENCE IS PLACED ANY CLOSER TO A TREE, ITS PURPOSE MAY

MAINTENANCE: INSPECT THE TREE PROTECTION FENCING PERIODICALLY DURING CONSTRUCTION TO MAKE SURE THAT IT IS POSITIONED SECURELY.



1. A ROCK FILTER OUTLET SHALL BE INSTALLED WHERE FAILURE OF A SILT FENCE OR STRAW BALE BARRIER HAS OCCURRED DUE TO CONCENTRATED FLOW. ANCHORED COMPOST LAYER SHALL BE USED ON UPSLOPE FACE IN HQ AND EV WATERSHEDS.



PROTECTION BARRIER SHALL BE 4 FEET HIGH, CONSTRUCTED OF DURABLE AND HIGHLY VISIBLE MATERIAL (PLASTIC ORANGE CONSTRUCTION FENCE AND/OR SNOW-FENCE MAY BE USED).

PROFESSIONAL

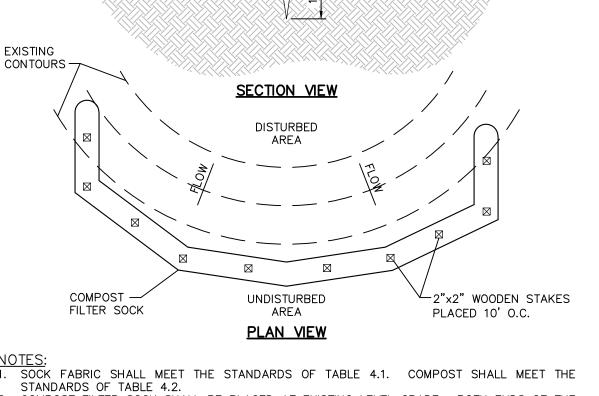
JEREMY R. MAZIAR

| ENGINEER |

50557-E

PROTECTION BARRIERS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE WORK AT THE SITE.

TREE PROTECTION BARRIER FENCE DETAIL



BLOWN/PLACED FILTER MEDIA-

DISTURBED AREA

─2"x2" WOODEN STAKES PLACED 10' O.C

-COMPOST FILTER SOCK

UNDISTURBED AREA

SOCK FABRIC SHALL MEET THE STANDARDS OF TABLE 4.1. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2. 2. 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. STAKES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE SOCK IF SO SPECIFIED BY THE MANUFACTURER.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS. 4. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVEGROUND HEIGHT OF TECH SOCK AND DISPOSED IN THE MATTER DESCRIBED ELSEWHERE IN THE

- 5. 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 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. 8. REFER TO E&S PLAN FOR COMPOST SOCK LOCATIONS, SIZE, IDENTIFICATIONS AND CONSTRUCTION SPECIFICATIONS.

### COMPOST FILTER SOCK DETAIL N.T.S.

### TABLE 4.1 - COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS

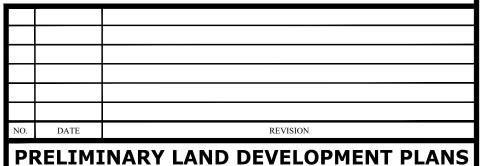
MATERIAL TYPE	3 MIL HDPE	5 MIL HDPE	5 MIL HDPE	MULTI-FILAMENT POLYPROPYLENE (MFPP)	HEAVY DUTY MULTI-FILAMENT POLYPROPYLENE (HDMFPP)
MATERIAL CHARACTERISTICS	PHOTO- DEGRADABLE	PHOTO- DEGRADABLE	BIO- DEGRADABLE	PHOTO- DEGRADABLE	PHOTO- DEGRADABLE
		12"	12"	12"	12"
SOC	12"	18"	18"	18"	18"
DIAMETERS	18"	24"	24"	24"	24"
		32"	32"	32"	32"
MESH OPENING	3/8"	3/8"	3/8"	3/8"	1/8"
TENSILE STRENGTH		26 PSI	26 PSI	44 PSI	202 PSI
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155)	23% AT 1000 HR.	23% AT 1000 HR.		100% AT 1000 HR.	100% AT 1000 HR.
MINIMUM FUNCTIONAL LONGEVITY	6 MONTHS	6 MONTHS	6 MONTHS	1 YEAR	2 YEARS
		TWO-PLY	SYSTEMS		
				HDPE BIAXIAL NET	-
			C	ONTINUOUSLY WOU	ND

INNER CONTAMINANT NETTING FUSION-WELDING JUNCTURES 3/4" x 3/4" MAX. APERTURE SIZE COMPOSITE POLYPROPYLENE FABRIC (WOVEN LAYER AND NON-WOVEN FLEECE OUTER FILTRATION MESH MECHANICALLY FUSED VIA NEEDLE PUNCH) 3/16" MAX. APERTURE SIZE SOCK FABRICS COMPOSED OF BURLAP MAY BE USED ON PROJECTS LASTING 6 MONTHS OR LESS.

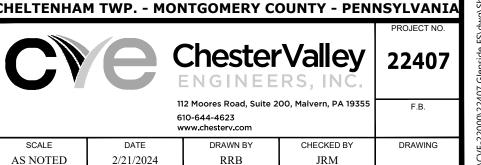
### TABLE 4.2 - COMPOST STANDARDS

ORGANIC MATTER CONTENT	80% - 100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
рН	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

# **EROSION & SEDIMENTATION** CONTROL DETAILS

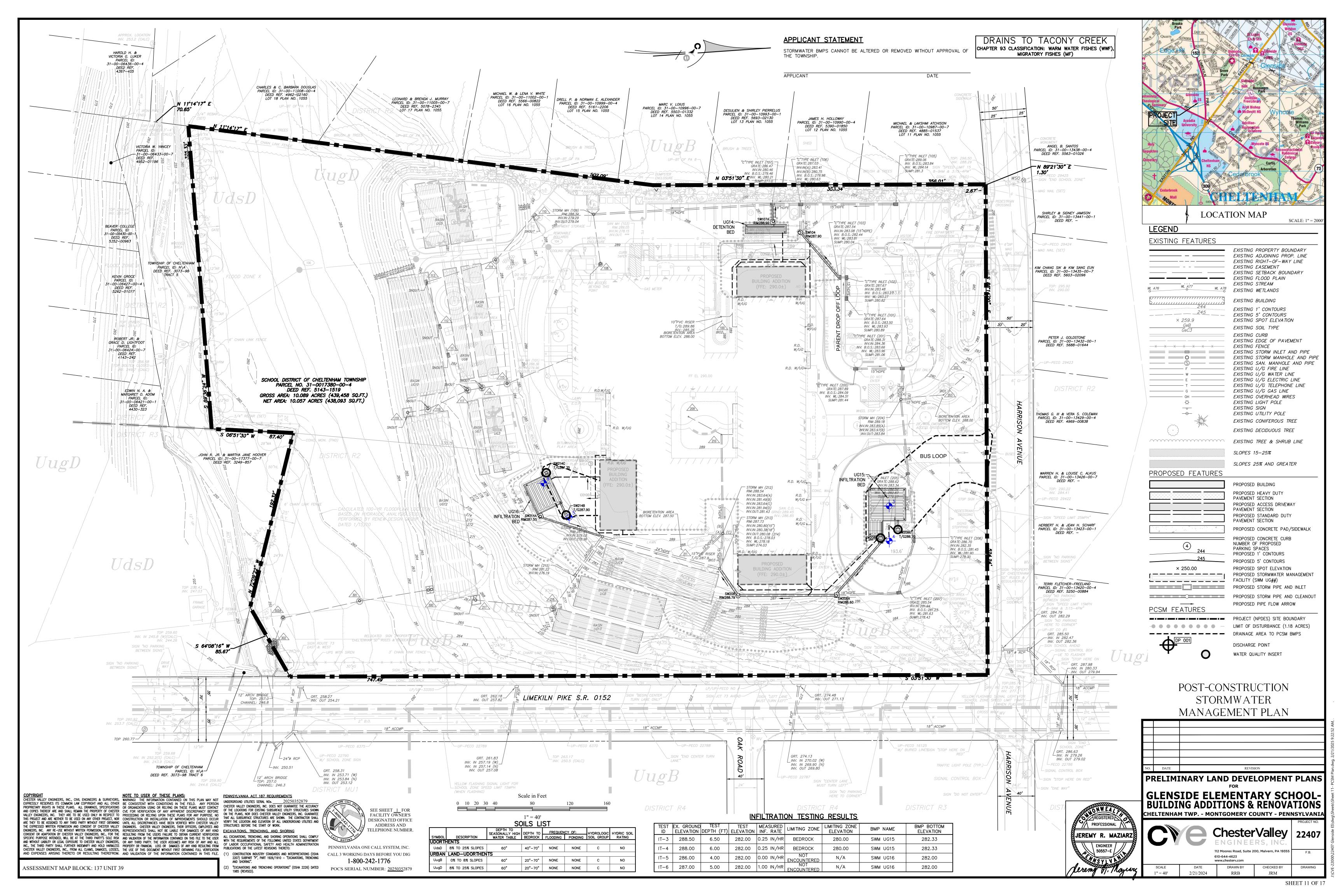


# GLENSIDE ELEMENTARY SCHOOL **BUILDING ADDITIONS & RENOVATIONS**



ASSESSMENT MAP BLOCK: 137 UNIT 39

SHEET 10 OF 17



### **GENERAL NOTES:**

- STORMWATER MANAGEMENT DESIGN: REFER TO THE "POST-CONSTRUCTION STORMWATER MANAGEMENT REPORT", PREPARED BY CHESTER
- VALLEY ENGINEERS.
- 2. MAINTENANCE NOTES: A. THE BMP'S LISTED BELOW WILL BE OWNED AND MAINTAINED BY THE PROPERTY OWNER. DETENTION BED
  - INFILTRATION BED(S)
  - WATER QUALITY FILTER(S) STORM SEWER AND ASSOCIATED STRUCTURES
- 3. DESIGN CONSIDERATIONS:
  - SUBSURFACE BED(S) DESIGNED TO STORE AND MITIGATE POST-DEVELOPMENT RUNOFF TO RATES LESS THAN THOSE REQUIRED BY TOWNSHIP CODE. SUBSURFACE BED(S) DESIGNED TO MITIGATE THE POST-DEVELOPMENT VOLUME INCREASE DUE TO DEVELOPMENT. WATER QUALITY FILTERS DESIGNED TO 3. FOR ANY PROPERTY CONTAINING A PCSWM BMP, THE PERMITTEE OR FILTER ALL SURFACE RUNOFF.
- 4. THE POST CONSTRUCTION STORMWATER MANAGEMENT PLAN HAS BEEN DESIGNED TO MEET THE FOLLOWING GOALS AND GUIDELINES:
  - PRESERVE THE INTEGRITY OF STREAM CHANNELS AND MAINTAIN AND PROTECT THE PHYSICAL,
  - BIOLOGICAL AND CHEMICAL QUALITIES OF RECEIVING STREAMS. PREVENT AN INCREASE IN THE RATE OF STORMWATER RUNOFF.
  - MINIMIZE ANY INCREASE IN STORMWATER RUNOFF VOLUME. MINIMIZE IMPERVIOUS AREAS.
  - MAXIMIZE THE PROTECTION OF EXISTING DRAINAGE FEATURES AND EXISTING VEGETATION. MINIMIZE LAND CLEARING AND GRADING.
  - MINIMIZE SOIL COMPACTION. UTILIZE OTHER STRUCTURAL OR NONSTRUCTURAL BMP'S THAT PREVENT OR MINIMIZE CHANGES IN STORMWATER RUNOFF.
- 5. THE RECEIVING WATER FOR THIS PROJECT IS TACONY CREEK. THE CHAPTER 93 CLASSIFICATION FOR TACONY CREEK IS WARM WATER FISHES, MIGRATORY FISHES (WWF-MF).
- THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THE SITE. CONSTRUCTION WASTES MUST BE RECYCLED TO THE EXTENT
- THE PERMITTEE SHALL PROVIDE ENGINEERING CONSTRUCTION OVERSIGHT FOR THE PROPOSED STORMWATER BMPS. A LICENSED PROFESSIONAL ENGINEER KNOWLEDGEABLE IN THE DESIGN AND CONSTRUCTION OF STORMWATER BMPS, PREFERABLY THE DESIGN ENGINEER, SHALL CONDUCT THE OVERSIGHT.

PRACTICABLE, AND DISPOSAL METHODS MUST COMPLY WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS.

- AS-BUILT PLANS OF THE STORMWATER BMP'S SHALL BE PROVIDED WITHIN SIX MONTHS FOLLOWING THE COMPLETION OF EACH PHASE. THE AS-BUILT PLANS SHALL BE SIGNED AND SEALED BY A PA REGISTERED PROFESSIONAL ENGINEER.
- A NOTICE OF TERMINATION (NOT) WILL BE REQUIRED TO BE SUBMITTED FOLLOWING APPROVAL OF THE FINAL AS-BUILT PLANS. PRIOR TO ACCEPTING THE NOT, THE DEPARTMENT AND/OR CONSERVATION DISTRICT STAFF WILL PERFORM A FINAL INSPECTION TO ENSURE SITE STABILIZATION AND VERIFY ADEQUATE INSTALLATION AND FUNCTION OF STORMWATER BMP'S.
- 10. PCSM REPORTING AND RECORDKEEPING. THE PCSM PLAN, INSPECTION REPORTS AND MONITORING RECORDS SHALL BE AVAILABLE FOR REVIEW AND INSPECTION BY THE DEPARTMENT OR THE CONSERVATION DISTRICT.
- 11. FINAL CERTIFICATION. THE PERMITTEE SHALL INCLUDE WITH THE NOTICE OF TERMINATION "RECORD DRAWINGS" WITH A FINAL CERTIFICATION STATEMENT FROM A LICENSED PROFESSIONAL, WHICH READS AS FOLLOWS:
- "I (NAME) DO HEREBY CERTIFY PURSUANT TO THE PENALTIES OF 18 PA.C.S.A. \$ 4904 TO THE BEST OF MY KNOWLEDGE, INFORMATION AND RELIEF, THAT THE ACCOMPANYING RECORD DRAWINGS ACCURATELY REFLECT THE AS-BUILT CONDITIONS, ARE TRUE AND CORRECT, AND ARE IN CONFORMANCE WITH CHAPTER 102 OF THE RULES AND REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE PROJECT SITE WAS CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PCSM PLAN, ALL APPROVED PLAN CHANGES AND ACCEPTED CONSTRUCTION PRACTICES."
- (1) THE PERMITTEE SHALL RETAIN A COPY OF THE RECORD DRAWINGS AS A PART OF THE APPROVED PCSM PLAN.
- (2) THE PERMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS A PART OF THE APPROVED PCSM PLAN TO THE PERSON IDENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPS.
- 12. UPON PERMANENT STABILIZATION OF THE EARTH DISTURBANCE ACTIVITY UNDER § 102.22(A)(2) (RELATING TO PERMANENT STABILIZATION), AND INSTALLATION OF BMPS IN ACCORDANCE WITH AN APPROVED PLAN PREPARED AND IMPLEMENTED IN ACCORDANCE WITH §\$ 102.4 AND 102.8 (RELATING TO EROSION AND SEDIMENT CONTROL REQUIREMENTS; AND PCSM REQUIREMENTS). THE PERMITTEE OR CO-PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION TO THE DEPARTMENT OR CONSERVATION DISTRICT.
- THE NOTICE OF TERMINATION MUST INCLUDE: (1) THE FACILITY NAME, ADDRESS AND LOCATION.
- (2) THE OPERATOR NAME AND ADDRESS.
- (3) THE PERMIT NUMBER. (4) THE REASON FOR PERMIT TERMINATION.
- (5) IDENTIFICATION OF THE PERSONS WHO HAVE AGREED TO AND WILL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPS IN ACCORDANCE WITH \$102.8(M) AND PROOF OF
- PRIOR TO ACCEPTING THE NOT, THE DEPARTMENT AND/OR CONSERVATION DISTRICT STAFF WILL PERFORM A FINAL INSPECTION AND APPROVE OR DENY THE NOTICE OF TERMINATION.

### GENERAL CONSERVATION NOTES AND SPECIFICATIONS

INTENT OF CONSERVATION PROGRAM: THE INTENT OF THIS PROGRAM IS TO PREVENT ACCELERATED EROSION OF THE EXPOSED SITE SOILS DURING THE CONSTRUCTION AND PERMANENT LIFE PERIODS OF THE DEVELOPMENT. THE PROGRAM REQUIRES RETENTION OF ALL SEDIMENTS ON THE CONSTRUCTION SITE TO MINIMIZE THE IMPACT OF DEVELOPMENT ON EXISTING STREAMS AND ADJACENT PROPERTY OWNERS. THESE OBJECTIVES WILL BE ACHIEVED BY MINIMIZING THE EXPOSURE TIME OF POTENTIALLY EROSIVE SOILS TO RUNOFF AND INSTALLATION OF THE TEMPORARY CONSTRUCTION. THE INTENT OF THIS PROGRAM SHOULD BE UNDERSTOOD AND IMPLEMENTED THROUGHOUT THE ENTIRE DEVELOPMENT. THE VARIOUS CONSTRUCTION TRADES SHOULD BE APPRAISED OF THIS PROGRAM AND DIRECTED TO PREVENT UNDUE DISTURBANCE OF PREPARED AND PROTECTED SURFACES.

SURFACE STABILIZATION CRITERIA: ALL DISTURBED SOIL SURFACES, INCLUDING SOIL STOCKPILES, ARE SUBJECT TO EROSION AND SHALL BE STABILIZED EITHER TEMPORARILY OR PERMANENTLY. IMMEDIATELY DURING NON-GERMINATION PERIODS. MULCH MUST BE APPLIED AT THE RECOMMENDED RATES. CRUSHED STONE ON PAVEMENT SUBGRADES IS CONSIDERED ADEQUATE PROTECTION. ALL DISTURBED ZONES AND VEGETATED REGIONS SHALL BE STABILIZED. PREFERABLY WITH A PERMANENT TREATMENT.

### CRITICAL VEGETATION AREAS (CVA)

CRITICAL VEGETATION AREAS ARE TO BE GRADED, HYDROSEEDED, AND MULCHED WITHIN 10 DAYS OF THE BEGINNING OF EXCAVATION. IN GENERAL, CRITICAL VEGETATION AREAS ARE DEFINED AS CUT SLOPES STEEPER THAN 3:1, ALL FILL SLOPES STEEPER THAN 4:1 AND IN ALL DRAINAGE SWALES.

### DISPOSAL AND RECYCLING

CONTRACTOR IS RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL DEMOLISHED OR UNUSED CONSTRUCTION MATERIALS. GARBAGE SHALL BE COLLECTED ON-SITE UNTIL RETRIEVED BY AN APPROVED DISPOSAL OR RECYCLING COMPANY, CONTRACTOR SHALL NOT INCINERATE EXCESS MATERIALS.

- LIKELY WASTE TO BE GENERATED AT THIS SITE:
- UNUSED CONCRETE TO BE PLACED IN CONCRETE WASHOUT AREAS; EXCESS SILT SOCK AND FENCING MATERIALS;

# GENERAL RUBBISH AND DEBRIS

THERMAL IMPACT STORMWATER RUNOFF FROM THE DRIVEWAY AND PARKING AREAS DRAIN TO A SUBSURFACE INFILTRATION BED AND UNDERGROUND STORM DRAIN PIPES. THEREFORE, THE INITIAL RUNOFF THAT IS MOST LIKELY TO WARMER IS SENT UNDERGROUND AND NOT DISCHARGED TO THE WATERCOURSE. WATER HAS TIME TO COOL PRIOR TO LEAVING THE SITE AND DRAINING TO THE WATER COURSE.

## SPECIAL GEOLOGIC AND SOIL CONDITIONS

NO SPECIAL SOIL OR GEOLOGICAL ISSUES ARE KNOWN.

### POST CONSTRUCTION STORMWATER MANAGEMENT (PCSWM) LONG-TERM OPERATIONS AND MAINTENANCE REQUIREMENTS

- 1. UNTIL THE PERMITTEE OR CO-PERMITTEE HAS RECEIVED WRITTEN APPROVAL OF A NOTICE OF TERMINATION, THE PERMITTEE OR CO-PERMITTEE WILL REMAIN RESPONSIBLE FOR COMPLIANCE WITH THE PERMIT TERMS AND CONDITIONS INCLUDING LONG-TERM OPERATION AND MAINTENANCE OF AL PCSWM BMPs ON THE PROJECT SITE AND IS RESPONSIBLE FOR VIOLATIONS OCCURRING ON THE PROJECT SITE.
- 2. THE PERMITTEE OR CO-PERMITTEE SHALL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF PCSWM BMPs UNLESS A DIFFERENT PERSON IS IDENTIFIED IN THE NOTICE OF TERMINATION AND HAS AGREED TO LONG-TERM OPERATION AND MAINTENANCE OF PCSWM BMPs.
- CO-PERMITTEE SHALL RECORD AN INSTRUMENT WITH THE RECORDER OF DEEDS WHICH WILL ASSURE DISCLOSURE OF THE PCSWM BMP AND THE RELATED OBLIGATIONS IN THE ORDINARY COURSE OF A TITLE SEARCH OF THE SUBJECT PROPERTY. THE RECORDED INSTRUMENT MUST IDENTIFY THE PCSWM BMP. PROVIDE FOR NECESSARY ACCESS RELATED TO LONG-TERM OPERATION AND MAINTENANCE FOR PCSWM BMPs AND PROVIDE NOTICE THAT THE RESPONSIBILITY FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSWM BMP IS A COVENANT THAT RUNS WITH THE LAND THAT IS BINDING UPON AND ENFORCEABLE BY THE SUBSEQUENT GRANTEES. AND PROVIDE PROOF OF FILING WITH THE NOTICE OF TERMINATION UNDER § 102.7(b)(5) (RELATING TO PERMIT TERMINATION).
- THE PERSON RESPONSIBLE FOR PERFORMING LONG-TERM OPERATION AND MAINTENANCE MAY ENTER INTO AN AGREEMENT WITH ANOTHER PERSON INCLUDING A CONSERVATION DISTRICT, NONPROFIT ORGANIZATION, MUNICIPALITY, AUTHORITY, PRIVATE CORPORATION OR OTHER PERSON, TO TRANSFER THE RESPONSIBILITY FOR PCSWM BMPs OR TO PERFORM LONG-TERM OPERATION AND MAINTENANCE AND PROVIDE NOTICE THEREOF TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION..
- 5. A PERMITTEE OR CO-PERMITTEE THAT FAILS TO TRANSFER LONG-TERM OPERATION AND MAINTENANCE OF THE PCSWM BMP OR OTHERWISE FAILS. TO COMPLY WITH THIS REQUIREMENT SHALL REMAIN JOINTLY AND SEVERALLY RESPONSIBLE WITH THE LANDOWNER FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSWM BMPs LOCATED ON THE
- 6. IN THE EVENT THAT THE BMP IS NOT FUNCTIONING PROPERLY, THE PERSON RESPONSIBLE FOR PERFORMING LONG-TERM OPERATION AND MAINTENANCE SHALL BE REQUIRED TO REPAIR OR REPLACE THE BMP TO ENSURE FUNCTION AND OPERATION.
- 7. THE PERMITTEE SHALL BE REQUIRED TO SUBMIT A WRITTEN REPORT DOCUMENTING EACH INSPECTION AND ALL BMP REPAIR AND MAINTENANCE ACTIVITIES TO THE TOWNSHIP, CONSERVATION DISTRICT, AND THE DEPARTMENT UPON REQUEST.

# BMP FAILURE NOTES (PER PROTOCOL 2 OF THE BMP

- THE TERM "FAILURE" FOR THE PROPOSED SUBSURFACE BED SHALL BE DEFINED 1) THE LOSS OF FUNCTIONALITY OF THE PROPOSED OUTLET STRUCTURE
- OR DISCHARGE PIPE 2) THE LOSS OF STRUCTURAL INTEGRITY OF THE STONE AND PIPES 3) THE ACCUMULATION OF SEDIMENT, TRASH OR DEBRIS IN PERIMETER
- DRAINAGE STRUCTURES 4) STANDING WATER IS OBSERVED IN THE BASIN AFTER 72 HOURS THE PERMITTEE SHALL MAKE THE NECESSARY REPAIRS TO THE OUTLET

STRUCTURE, DISCHARGE PIPING, STONE, AND PERFORATED PIPE AS NEEDED. IF

STANDING WATER IS OBSERVED AFTER 72 HOURS, CONSULT ENGINEER FOR

- REMEDIATION OF THE UNDERGROUND BED. THE TERM "FAILURE" FOR THE PROPOSED WATER QUALITY INLETS (FILTER INSERTS) SHALL BE DEFINED AS:
- DISCOVER EVIDENCE OF DAMAGED FILTER MEDIA 2) DISCOVER EVIDENCE OF THE FILTER MEDIA'S INABILITY TO SUPPORT
- ACCUMULATED SEDIMENT OR DEBRIS. THE PERMITTEE SHALL REPAIR BMP FAILURE BY REPLACING THE FILTER MEDIA

### POST CONSTRUCTION STORMWATER MANAGEMENT REPORTING AND RECORD KEEPING

A WRITTEN REPORT DOCUMENTING EACH INSPECTION AND ALL BMP REPOARI AND MAINTENANCE ACTIVITIES MUST BE PROVIDED AS PART OF THE LONG-TERM OPERATION AND MAINTENANCE PROGRAM.

THE POST CONSTRUCTION STORMWATER MANAGEMENT PLAN. INSPECTION REPORTS, AND MONITORING RECORDS SHALL BE AVAILABLE FOR REVIEW AND INSPECTION BY THE DEPARTMENT OR THE CONSERVATION DISTRICT.

### WATER QUALITY INLETS (FILTER INSERTS)

IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.

- IT SHALL BE THE SOLE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN ALL WATER QUALITY INLETS ON SITE.
- WATER QUALITY INLET INSERTS SHOULD BE INSPECTED THREE TIMES PER
- A. DURING THE THREE ROUTINE INSPECTIONS, THE FILTER MEDIA SHALL BE
- CLEANED. B. ONE REGULAR CHANGE AND DISPOSAL OF THE FILTER MEDIA SHALL OCCUR DURING THE CALENDAR YEAR AS WELL.
- BMP FAILURE IS DEFINED AS DISCOVERING EVIDENCE OF TORN FILTER FABRIC OR FILTER MEDIA INABILITY TO SUPPORT ACCUMULATED SEDIMENT OR DEBRIS
- 2. REPAIR BMP FAILURE BY REPLACING THE FILTER MEDIA IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. <u>GENERAL MAINTENANCE NOTES</u>

  1. WATER QUALITY INLET INSERTS SHALL BE CHECKED TO ENSURE THEY ARE
- SECURELY FASTENED DURING EACH INSPECTION. 2. RECOMMENDED MAINTENANCE IS PERFORMED INCLUDING REMOVAL AND DISPOSAL OF THE FILTER MEDIA OR EXCESS MATERIAL BY PERSONNEL.
- DISPOSAL OF REMOVED MATERIAL WILL DEPEND ON THE NATURE OF THE DRAINAGE AREA AND THE INTENT AND FUNCTION OF THE WATER QUALITY
- 2. MATERIAL REMOVED FROM WATER QUALITY INSERTS THAT SERVE "HOT SPOTS" SUCH AS FUELING STATIONS THAT RECEIVE A LARGE AMOUNT OF DEBRIS SHOULD BE HANDLING ACCORDING TO DEP REGULATIONS FOR THAT TYPE OF SOLID WASTE, SUCH AS A LANDFILL THAT IS APPROVED BY DEP TO ACCEPT SOLID WASTE. WATER QUALITY INSERTS THAT PRIMARILY CATCH SEDIMENT AND DETRITUS FROM AREAS SUCH AS LAWNS MAY REUSE THE
- REMOVE THE GRATE OF THE INSTALLED INLET AND SET IT TO THE SIDE.
- 2. REMOVE DEBRIS AND LITTER FROM THE INLET.
- 3. CLEAN OFF THE GRATE BEARING LEDGE.
- 4. LOWER THE FILTER ASSEMBLY INTO THE INLET UNTIL THE ASSEMBLY'S SUPPORT FLANGES REST ON THE GRATE BEARING LEDGE.
- 5. INSURE THAT THE FOUR FILTER MEDIUM CARTRIDGES ARE ATTACHED TO

THE D-RINGS IN THE BOTTOM CORNERS OF THE FILTER ASSEMBLY. CRITICAL STAGE OF CONSTRUCTION: CONTACT ENGINEER TO VERIFY INSTALLATION OF WATER QUALITY INSERTS.

6. REPLACE THE INLET GRATE.

# SUBSURFACE INFILTRATION BEDS (SWM UG15-UG16)

SHALL BE THE SOLE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM(S)

- AGGREGATE: AGGREGATE FOR BEDS SHALL BE 3/8 INCH TO 3/4 INCH UNIFORMLY GRADED COARSE AGGREGATE, AASHTO NUMBER 57 PER TABLE
- 4. AASHTO SPECIFICATIONS, PART I, 13TH ED., 1998 (P. 47). NON-WOVEN GEOTEXTILE: SHALL CONSIST OF NEEDLED NON-WOVEN
- POLYPROPYLENE FIBERS AND MEET THE FOLLOWING PROPERTIES: GRAB TENSILE STRENGTH (ASTM-D4632): MULLEN BURST STRENGTH (ASTM-D3786): 225 PSI. 95 GPM/FT<sup>2</sup> FLOW RATE (ASTM-D4491): UV RESISTANCE AFTER 500 HOURS (ASTM-D4355%): 70%
- HEAT-SET OR HEAT-CALENDARED FABRICS ARE NOT PERMITTED. ACCEPTABLE TYPES INCLUDE MIRAFI 140N, AMOCO 4547, AND GEOTEX 451.
- STORAGE PIPE: SHALL BE CONTINUOUSLY PERFORATED. SMOOTH INTERIOR. HIGH-DENSITY POLYETHYLENE (HDPE) PIPE SHALL MEET AASHTO M252, TYPE S OR AASHTO M294, TYPE S.
- ALL STORMWATER MANAGEMENT SYSTEMS SHALL BE INSPECTED ANNUALLY, OR AFTER EACH RAINFALL EVENT IN EXCESS OF TWO (2") INCHES (MAJOR STORM EVENT), FOR TRASH AND DEBRIS; ANY DISCOVERED TRASH OR DEBRIS SHALL BE REMOVED IMMEDIATELY.
- GENERAL MAINTENANCE NOTES

  1. ACCESS FOR VIEWING OR VACUUMING IS PROVIDED THROUGH OBSERVATION PORTS AND STORM STRUCTURES.
- REMOVE SEDIMENT/TRASH/DEBRIS FROM PERIMETER DRAINAGE

STRUCTURES AND OUTLET STRUCTURE.

- THE OVERLYING VEGETATION OF SUBSURFACE INFILTRATION FEATURES SHOULD BE MAINTAINED IN GOOD CONDITION, AND ANY BARE SPOTS REVEGETATED AS SOON AS POSSIBLE.
- 4. VEHICULAR ACCESS ON SUBSURFACE INFILTRATION AREAS SHOULD BE PROHIBITED IN UNPAVED AREAS, AND CARE SHOULD BE TAKEN TO AVOID EXCESSIVE COMPACTION BY MOWERS. IF CONTINUAL ACCESS IS NEEDED, USE OF PERMEABLE, TURF REINFORCEMENT SHOULD BE CONSIDERED.
- CONTACT QUALIFIED ENGINEER IMMEDIATELY AFTER DISCOVERY OF SINKHOLE OCCURRENCE, SINKHOLE SHOULD BE PROMPTLY AND PROPERLY
- INSTALL AND MAINTAIN ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
- 2. INSTALL CONSTRUCTION FENCING AROUND PERIMETER OF INFILTRATION AREA TO PREVENT CONSTRUCTION TRAFFIC FROM COMPACTING EXISTING SUBGRADE AREAS.
- 3. INSTALL UPSTREAM AND DOWNSTREAM CONTROL STRUCTURES, CLEANOUTS, STORAGE PIPE, AND ALL OTHER NECESSARY STORMWATER STRUCTURES.
- CRITICAL STAGE OF CONSTRUCTION: CONTACT ENGINEER PRIOR TO PLACEMENT OF GEOTEXTILE. GEOTEXTILE, STORAGE PIPES, AND BED AGGREGATE SHOULD BE PLACED IMMEDIATELY AFTER APPROVAL OF SUB GRADE PREPARATION AND INSTALLATION OF STRUCTURES. GEOTEXTILE SHOULD BE PLACED IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND RECOMMENDATIONS.
- CLEAN-WASHED, UNIFORMLY GRADED AGGREGATE SHOULD BE PLACED IN THE BED IN MAXIMUM 6-INCH LIFTS. EACH LAYER SHOULD BE LIGHTLY COMPACTED, WITH CONSTRUCTION EQUIPMENT KEPT OFF THE BED BOTTOM.
- 6. APPROVED SOIL MEDIA OR PAVEMENT BASE COURSES SHOULD BE PLACED OVER DETENTION BED IN MAXIMUM 6-INCH LIFTS. SEED AND STABILIZE AREA IF APPLICABLE
- 7. DO NOT REMOVE INLET PROTECTION OR OTHER EROSION AND SEDIMENT CONTROL MEASURES UNTIL SITE IS FULLY STABILIZED.

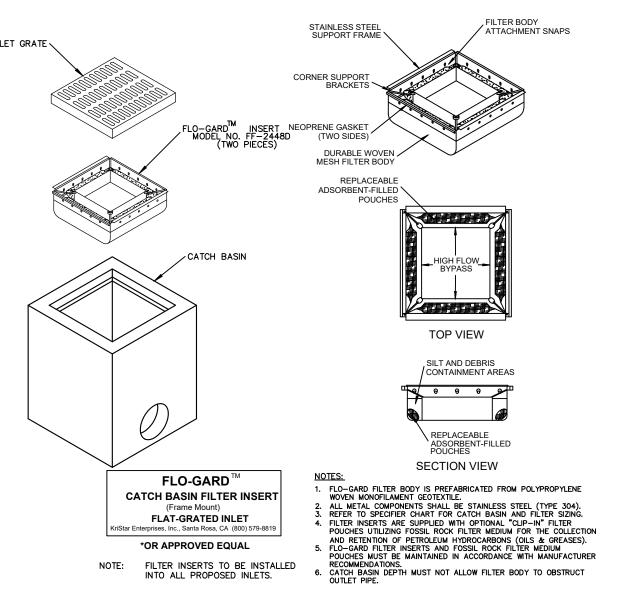
NSPECTION REQUIREMENTS: ALL STORM COLLECTION STRUCTURES SHALL BE INSPECTED ANNUALLY, OR AFTER EACH RAINFALL EVENT IN EXCESS OF TWO (2") INCHES (MAJOR STORM EVENT). FOR TRASH, DEBRIS OR EVIDENCE OF PIPE LEAKAGE OR SAGGING: REMOVE TRASH OR DEBRIS IMMEDIATELY: IMMEDIATELY REPAIR OR REPLACE LEAKING/SAGGING DRAINAGE FEATURES.

### GENERAL MAINTENANCE NOTES:

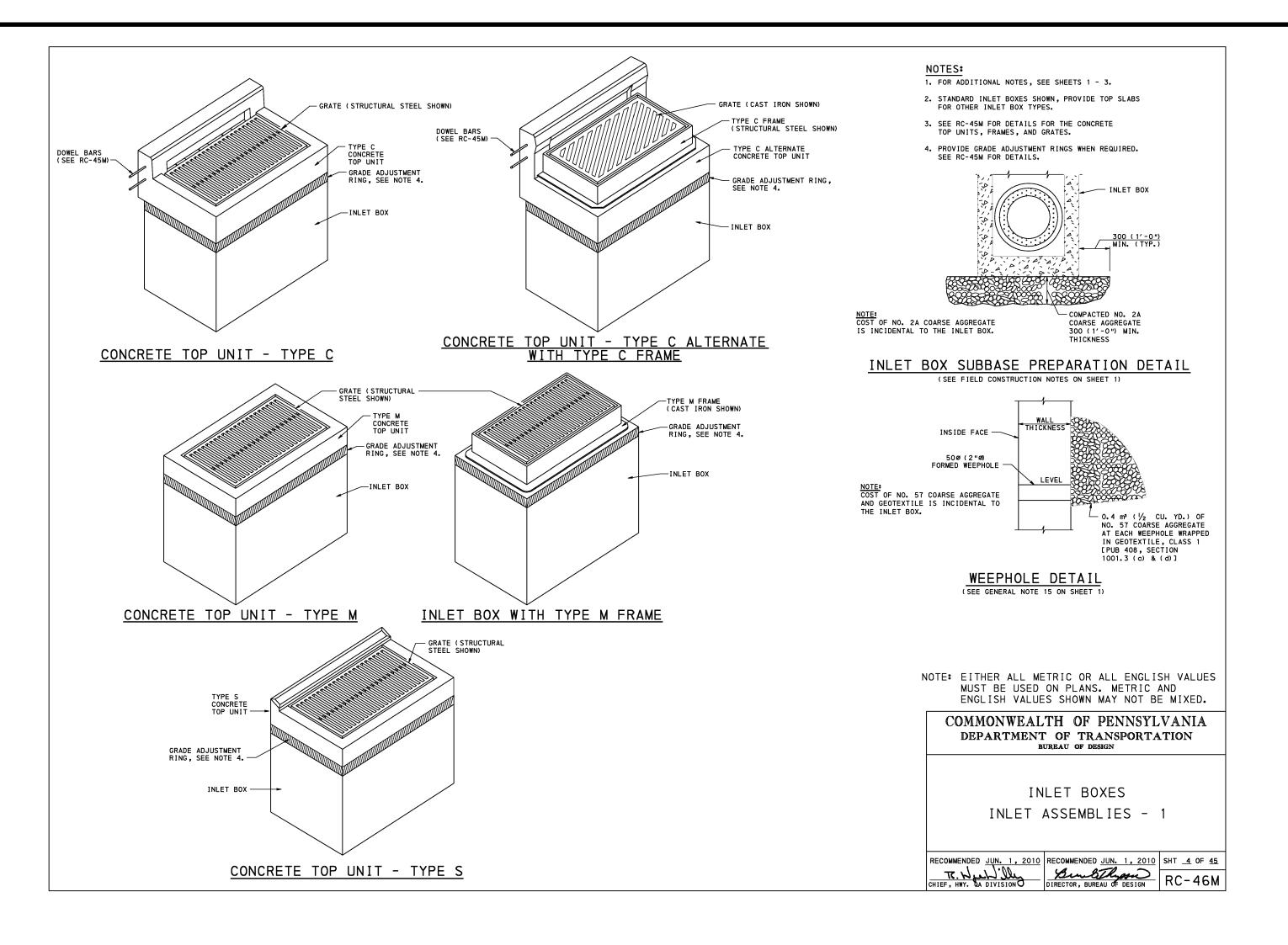
- 1. ACCESS CAN BE GAINED TO EACH COLLECTION STRUCTURE THROUGH THE REMOVABLE INLET GRATE OR MANHOLE LID. STEEL OR OTHER APPROVED RUNGS HAVE BEEN INSTALLED ON THE INSIDE OF EACH STRUCTURE OVER FOUR FEET DEEP FOR ANY NECESSARY ENTRY. GRATES AND LIDS SHALL REPLACED SECURELY IMMEDIATELY AFTER MAINTENANCE.
- CONTACT DESIGN ENGINEER IMMEDIATELY AFTER DISCOVERY OF SINKHOLE OCCURRENCE, SINKHOLE SHOULD BE PROMPTLY AND PROPERLY REPAIRED. IF SEDIMENT/TRASH/DEBRIS IS FOUND IN THE CONVEYANCE SYSTEM, THE SYSTEM SHALL BE JETTED AND VACUUMED TO REMOVE ALL
- SEDIMENT/TRASH/DEBRIS AND DISPOSED OF APPROPRIATELY. REFER TO WATER QUALITY INLET MAINTENANCE GUIDELINES FOR ADDITIONAL DETAIL IN CLEANING OF THOSE STRUCTURES WITH WATER QUALITY APPARATUS INSTALLED.

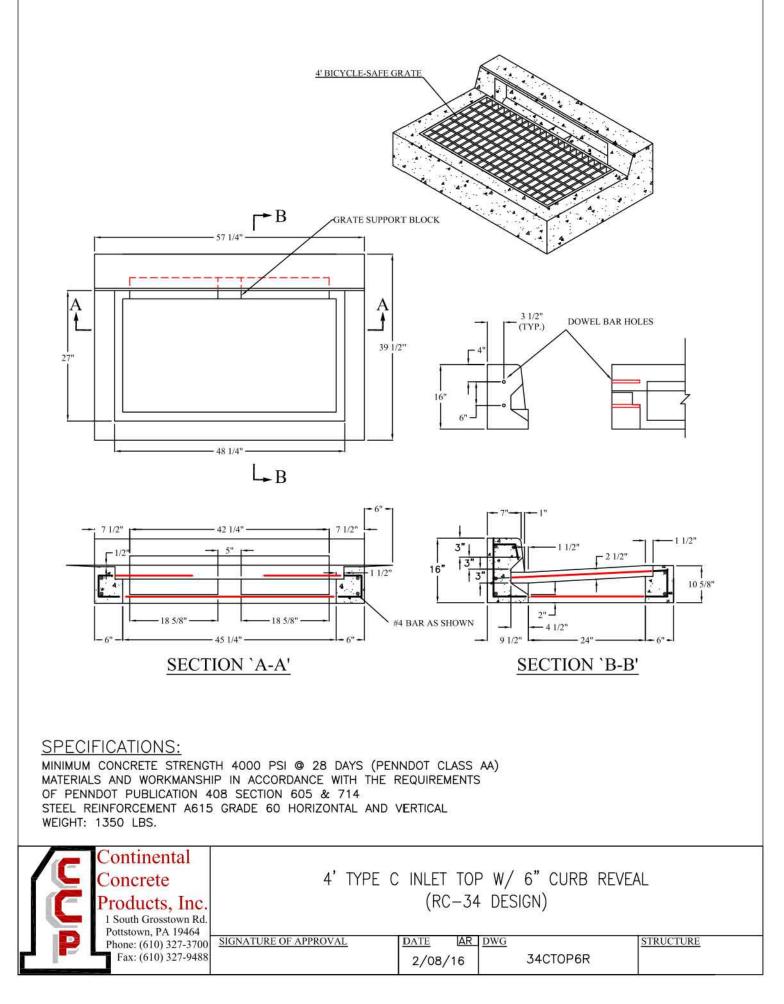
### CRITICAL STAGES OF CONSTRUCTION A LICENSED ENGINEER OR HIS DESIGNEE SHALL BE PRESENT TO OBSERVE AND VERIFY

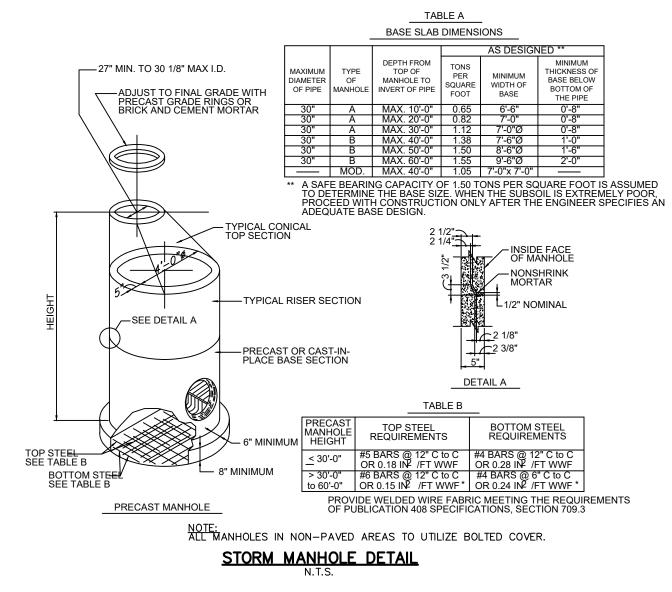
- INSTALLATION AND CONSTRUCTION OF THE PCSWM PLAN AT THE FOLLOWING CRITICAL 1. EXCAVATION AND FINAL GRADING OF SWM UG14-UG16. 2. PLACEMENT OF GEOTEXTILE FABRIC, STONE AND DISTRIBUTION PIPE INSIDE SWM
- UG14-UG16. 3. INSTALLATION OF WATER QUALITY INLET FILTERS. 4. FOLLOWING CONSTRUCTION, ENGINEER TO VERIFY THAT ALL PCSM BMPS ARE INSTALLED, FUNCTIONING, AND HAVE NOT BEEN IMPACTED BY CONSTRUCTION



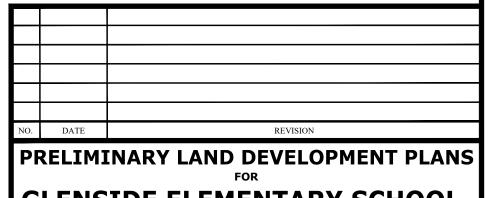
<u>WATER QUALITY INSERT DETAIL</u>

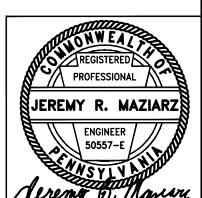






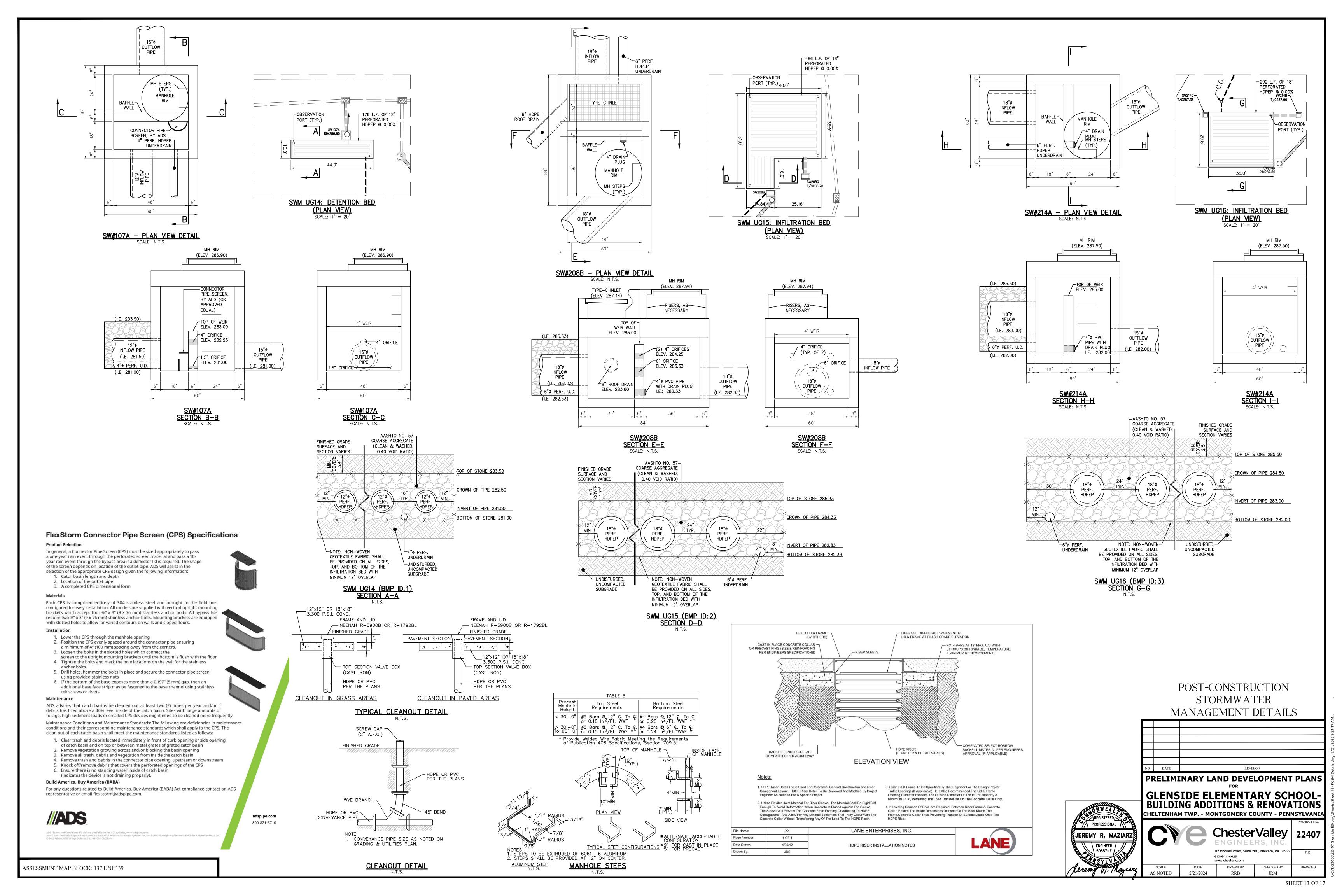
POST-CONSTRUCTION STORMWATER MANAGEMENT NOTES & DETAILS

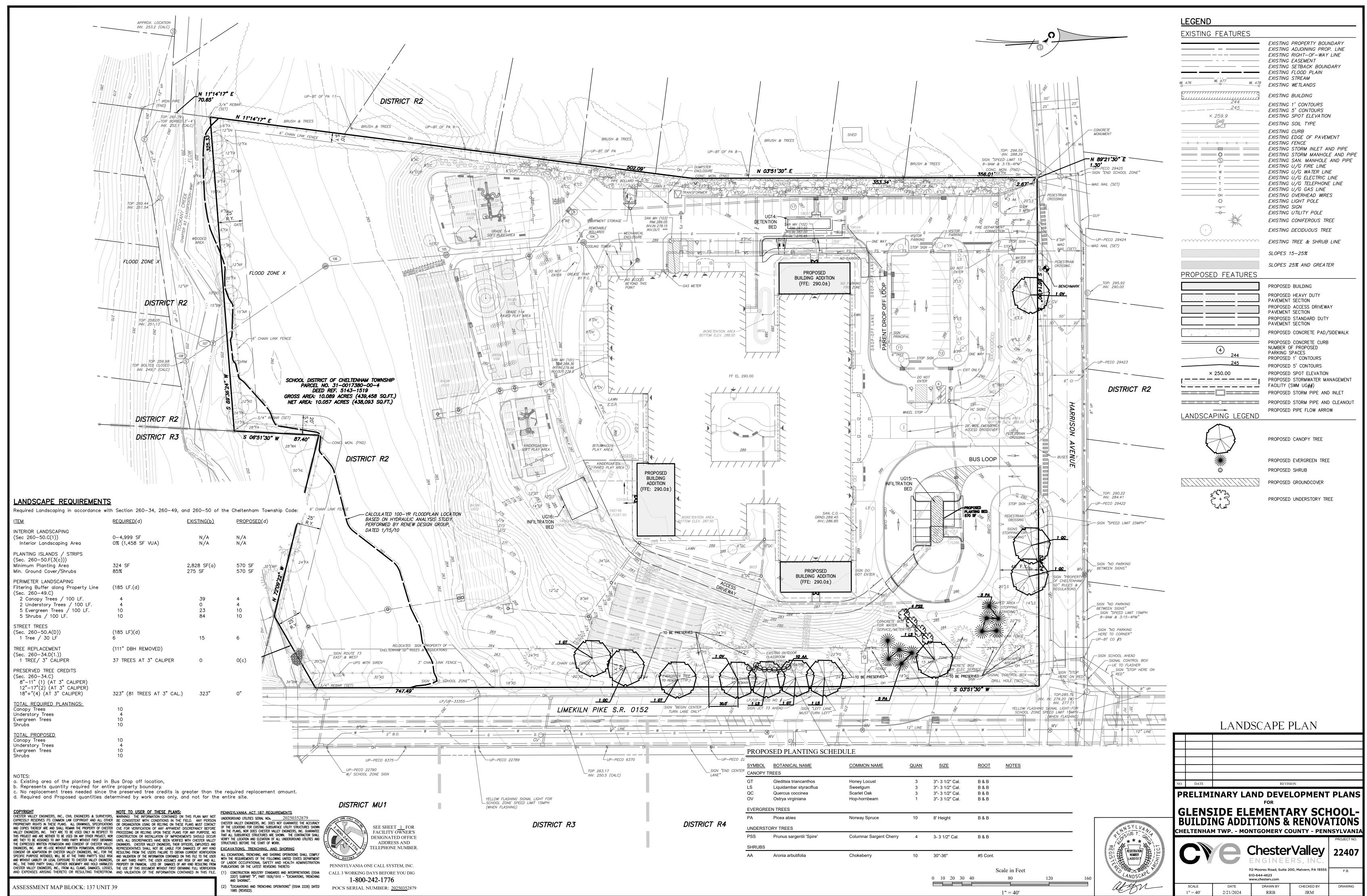




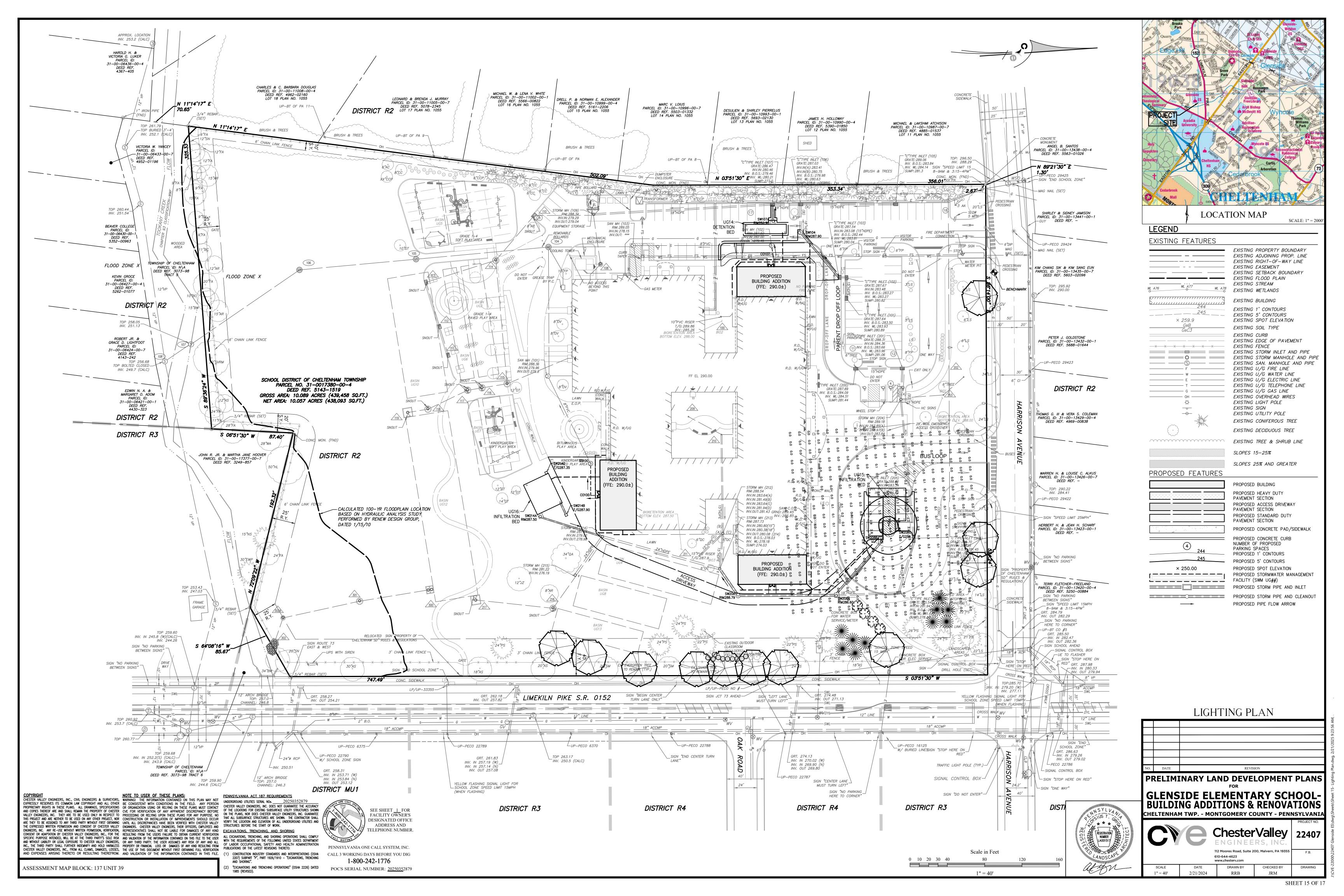
GLENSIDE ELEMENTARY SCHOOL **BUILDING ADDITIONS & RENOVATIONS** HELTENHAM TWP. - MONTGOMERY COUNTY - PENNSYLVANIA **ChesterValley** 

610-644-4623 www.chesterv.cor DRAWN BY CHECKED BY 2/21/2024 RRB





SHEET 14 OF 17



### **GENERAL LIGHTING NOTES**

THIS LIGHTING PLAN DEPICTS PROPOSED SUSTAINED ILLUMINATION LEVELS CALCULATED USING DATA PROVIDED

BY THE NOTED MANUFACTURERS.

### INSTALLATION NOTES:

- 1.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF ALL EXISTING UNDERGROUND STRUCTURES AND UTILITIES, SUCH AS WATER MAINS, SANITARY AND STORM SEWERS, TELEPHONE AND ELECTRIC CONDUITS, AND GAS LINES, ETC. AND ABOVE GROUND UTILITIES WHICH MAY BE ENCOUNTERED DURING
- CONSTRUCTION OPERATIONS. 2.) DIMENSIONS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL ELEVATIONS, INVERTS, AND DIMENSIONS IN THE FIELD PRIOR TO THE COMMENCEMENT OF WORK.
- 3.) THE PENNSYLVANIA ONE CALL NUMBER IS 1-800-242-1776. THE CONTRACTOR IS REQUIRED TO SUBMIT VERIFICATION TO THE MUNICIPALITY THAT A ONE "ONE-CALL" HAS BEEN PLACED PRIOR TO THE START OF DEMOLITION WORK.
- 4.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS FROM THE MUNICIPALITY RELATIVE TO THE PROPOSED PROJECT.
- 5.) THE CONTRACTOR SHALL REPAIR ALL UTILITY TRENCHING WORK LOCATED WITHIN EXISTING PAVED STREETS.
- 6.) THE CONTRACTOR SHALL COMPLY WITH ALL CITY, STATE, AND FEDERAL REGULATIONS IN EFFECT AT THE TIME OF CONSTRUCTION.
- 7.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL.
- 8.) ALL AREAS DISTURBED AS A RESULT OF THE INSTALLATION OF LIGHTING IMPROVEMENTS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
- 9.) THE LIGHT LEVELS DEPICTED ON THIS PLAN WERE CALCULATED BASED ON THE LLF SHOWN IN THE LUMINAIRE SCHEDULE.
- 10.) THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ON THIS PLAN ARE ANALYZED ON A HORIZONTAL GEOMETRIC PLANE AT GROUND LEVEL UNLESS OTHERWISE NOTED.
- 11.) ILLUMINATION LEVELS ARE SHOWN IN FOOT-CANDLES (FC).
- 12.) THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO ENSURE THAT SHIELDING AND OR ROTATED OPTICS ARE INSTALLED AS INDICATED ON
- THÉ PLAN IN ORDER TO ACHIEVE THE LIGHTING LEVELS THE REVIEWING AGENCY APPROVED.

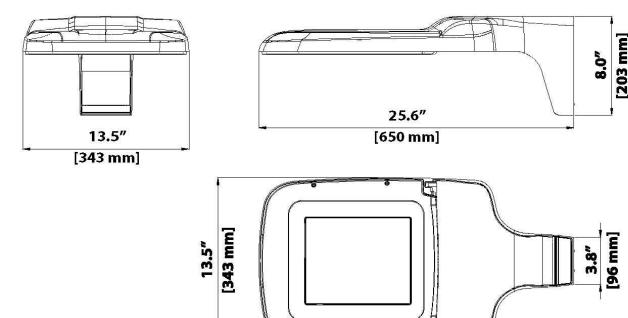
LIGHTING CONTROLS AND SURGE PROTECTION: ALL NEW FIXTURES ARE TO BE EQUIPPED WITH DIMONOFF RME-XBP PHOTOCELLS AND ABLE POWER PRODUCTS RWL-S SURGE DEVICE. FIXTURES MUST BE EQUIPPED WITH ALL-MODE PROTECTION (L-N, L-G, N-G). SURGE PROTECTION INTEGRAL TO THE PHOTOCONTROL SHOULD HAVE 3 MODES OF PROTECTION, LINE-TO-NEUTRAL, LINE-TO-GROUND AND NEUTRAL-TO-GROUND. THE MINIMUM SURGE PROTECTION SPECIFICATIONS SHOULD BE 10KA IN, 25KA IMAX AND 20KV UOC.

PARKING FACILITY AND VEHICULAR AND PEDESTRIAN WAY LIGHTING (EXCEPT FOR SAFETY AND SECURITY APPLICATIONS AND ALL-NIGHT BUSINESS OPERATIONS), FOR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL USES SHALL BE AUTOMATICALLY EXTINGUISHED NO LATER THAN ONE HOUR AFTER THE CLOSE OF BUSINESS OR FACILITY OPERATION. WHEN SAFETY OR SECURITY LIGHTING IS PROPOSED FOR AFTER-HOURS ILLUMINATION, IT SHALL NOT BE IN EXCESS OF 25% OF NORMAL LIGHT OUTPUT REQUIRED OR PERMITTED.

SET ONE SMART PHOTOCELL TO CONTROL ALL OTHER SITE LIGHTING FIXTURES (DIMONOFF #RME-XBP).

PLEASE CONTACT INDEPENDENCE LIGHTING FOR PRICING:

KENT LAZOR DIRECT: 610-363-5271



### PARKING LOT LUMINARY SPECIFICATIONS

LEOTEK ARIETA LUMINARE

- MODEL: (SEE LUMINAIRE SCHEDULE) • IES FULL CUTOFF
- DISTRIBUTION TYPE (SEE LUMINAIRE
- SCHEDULE) • COLOR: BLACK
- QTY: 1 • OPTIONS: DIMONOFF PHOTOCELL & RWL-S SURGE DEVICE

### POLE MOUNTED LIGHTING FIXTURE DETAIL

LUMINAIRE SCHEDULE					
TYPE	SYMBOL	MOUNTING	MODEL	VOLTS	QUANTITY
POLE MOUNTED	<b>←</b>	POLE	Leotek Electronics USA LLC, AR13-CG2-N-MV-30K-T5-WH-115	120V 1P 2W	1

GENERAL PHOTOMETRIC SCHEDULE	
AVERAGE FOOT-CANDLES	0.28
MAXIMUM FOOT-CANDLES	6.9
MINIMUM FOOT-CANDLES	0.0
MINIMUM TO MAXIMUM FC RATIO	0.00
MAXIMUM TO MINIMUM FC RATIO	5872.15
AVERAGE TO MINIMUM FC RATIO	240.45

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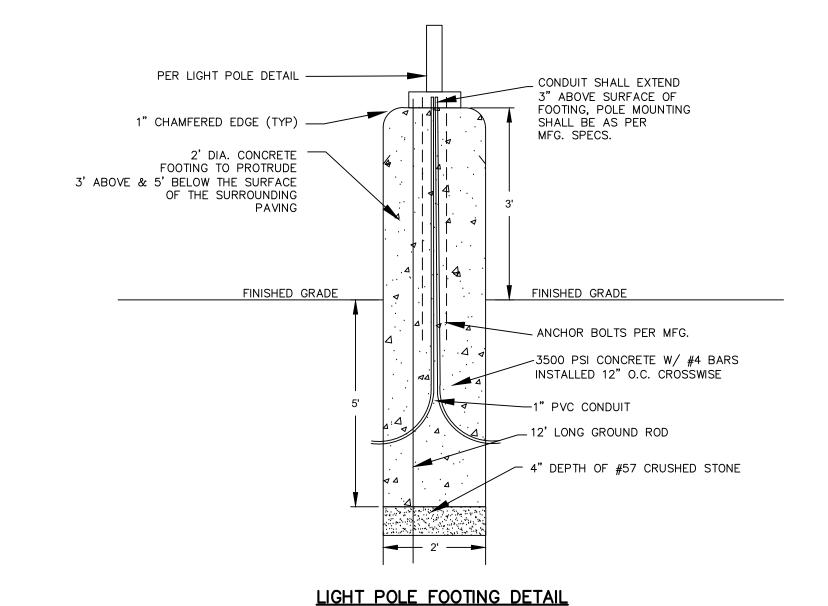
EXCAVATIONS. TRENCHING. AND SHORING OPERATIONS SHALL COMPLY SHOULD SHAVE DEED TO BE USED ONLY IN RESPECTION OF ANY PURPOSE. NO THE USE OF THE LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES BEFORE THE START OF WORK.

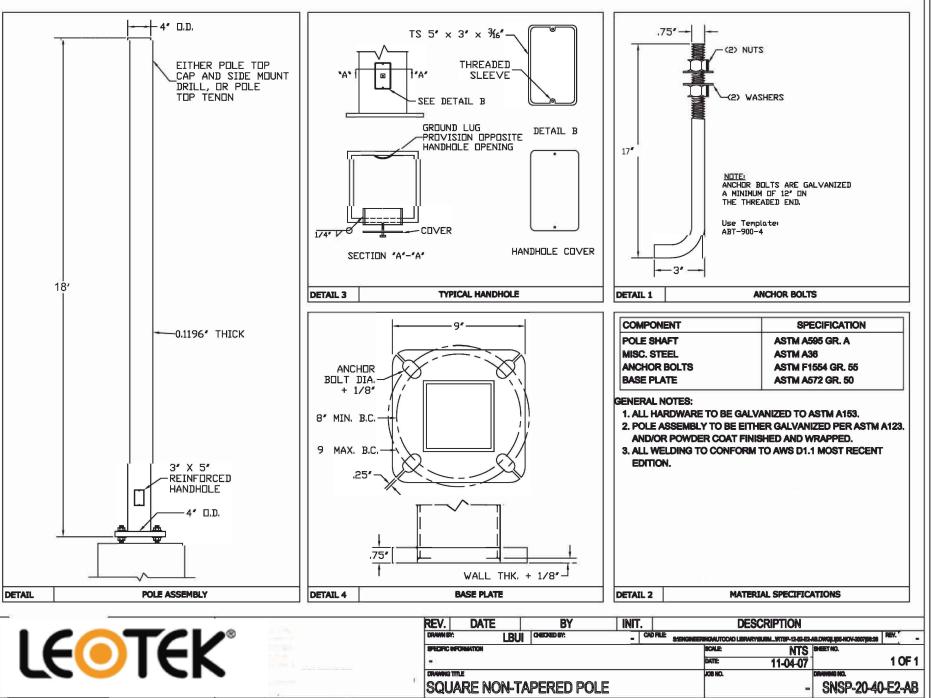
EXCAVATIONS. TRENCHING. AND SHORING OPERATIONS SHALL COMPLY AND VALIDATION OF THE INFORMATION CONTAINED ON THE USE TO THE USE OF THE U OF THE LOCATIONS FOR EXISTING SUBSURFACE UTILITY STRUCTURES SHOWN CONSENT OF ADAPTATION BY CHESTER VALLEY ENGINEERS, INC., FOR THE SPECIFIC PURPOSE INTENDED, WILL BE AT THE THIRD PARTY'S SOLE RISK AND WILDATION OF THE INFORMATION CONTAINED ON THIS FILE TO THE USER AND WITHOUT LABILITY OR LEGAL EXPOSURE TO CHESTER VALLEY ENGINEERS, OR ANY THIRD PARTY. THE USER ASSUMES ANY RISK OF ANY AND ALL INC., THE THIRD PARTY SHALL FURTHER INDEMNIFY AND HOLD HARMLESS CHESTER VALLEY ENGINEERS, INC., FROM ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES ARISING THERETO OR RESULTING THEREFROM. AND EXPENSES ARISING THERETO OR RESULTING THEREFROM. ALL EXCAVATIONS, TRENCHING, AND SHORING OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING UNITED STATES DEPARTMENT

OF LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION PUBLICATIONS OR THE LATEST REVISIONS THERETO: CONSTRUCTION INDUSTRY STANDARDS AND INTERPRETATIONS (OSHA 2207) SUBPART "P", PART 1926/1910 - "EXCAVATIONS, TRENCHING "EXCAVATIONS AND TRENCHING OPERATIONS" (OSHA 2226) DATED



PENNSYLVANIA ONE CALL SYSTEM, INC. CALL 3 WORKING DAYS BEFORE YOU DIG POCS SERIAL NUMBER: 20250352879

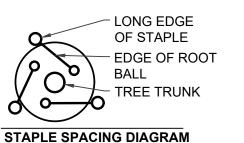




LIGHT POLE DETAIL

### **PLANTING NOTES**

- 1. THE LANDSCAPE PLAN IS INTENDED TO BE USED FOR LANDSCAPING PURPOSES
- 2. LANDSCAPE CONTRACTOR SHALL CALL PA ONE CALL (1-800-242-1776) OR CONFIRM WITH GENERAL CONTRACTOR THAT THE SITE HAS BEEN MARKED FOR UNDERGROUND UTILITY LOCATIONS. NO PLANTINGS SHALL BE PLACED WITHOUT UNDERGROUND UTILITY MARKINGS.
- 3. TREES AND SHRUBS SHALL NOT BE PLANTED OVER ANY UNDERGROUND UTILITY, NOR WITHIN ANY UNDERGROUND UTILITY EASEMENT (MINIMUM OF 10' FROM THE CENTER OF THE PIPE). CONTRACTOR SHALL VERIFY LOCATION OF ALL
- UNDERGROUND UTILITIES PRIOR TO STARTING WORK. 4. LANDSCAPE CONTRACTOR SHALL INSPECT THE SITE AND BECOME FAMILIAR WITH THE PLANTING AREA PRIOR TO THE INSTALLATION OF ANY PLANT MATERIAL. THE TOWNSHIP LANDSCAPE ARCHITECT/ENGINEER SHALL BE NOTIFIED PRIOR TO BEGINNING PLANING OPERATIONS, IN WRITING.
- 5. THE CONTRACTOR SHALL FURNISH AND PLANT ALL PLANTS SHOWN ON THE DRAWINGS, AS SPECIFIED, AND IN QUANTITIES INDICATED ON THE PLANT LIST.
- 6. PLANT MATERIAL QUANTITIES LISTED FOR THE CONVENIENCE OF THE CONTRACTOR. ACTUAL NUMBERS OF SYMBOLS SHALL TAKE PRECEDENCE OVER QUANTITIES LISTED IN CASES OF CONFLICT.
- 7. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING ALL MATERIALS. SUPPLIES, EQUIPMENT AND LABOR REQUIRED TO INSTALL THE LANDSCAPING SHOWN ON THESE PLANS.
- 8. ALL PLANT MATERIAL SUBJECT TO APPROVAL BY THE OWNER OR OWNERS REPRESENTATIVE PRIOR TO INSTALLATION. PLANT MATERIAL SHALL BE NURSERY GROWN LOCALLY, FRESHLY DUG, SHALL BE FREE OF DISEASE AND PESTS, AND SHALL BE FULL AND WELL SHAPED. ANY MATERIAL FOUND TO BE UNACCEPTABLE SHALL BE REPLACED WITH ACCEPTABLE MATERIAL AT NO COST TO THE OWNER.
- 9. WHEN PLANTS OF A SPECIFIED KIND OR SIZE ARE NOT AVAILABLE WITHIN A REASONABLE DISTANCE, SUBSTITUTIONS MAY BE MADE UPON REQUEST BY THE CONTRACTOR, IF APPROVED BY THE OWNER OR THEIR REPRESENTATIVE AND THE TOWNSHIP. CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF ANY PLANT MATERIALS WHICH THEY FEEL WILL NOT BE AVAILABLE OR NOT LIKELY TO THRIVE IN THE LOCATIONS INDICATED ON THE PLAN.
- 10. ALL PLANT MATERIAL SHALL BE NURSERY GROWN AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK OF THE AMFRICAN ASSOCIATION OF NURSERYMEN (AS LAST REVISED) AND WITH THE GENERAL PLANTING SPECIFICATIONS OF THE MUNICIPALITY.
- 11. ALL PLANT MATERIAL SHALL BE OF THE MINIMUM SIZE NOTED ON THE PLANTING SCHEDULE. PLANT MATERIAL SHALL BE MEASURED IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK AS LAST REVISED.
- 12. ALL AREAS TO BE LANDSCAPED, ESPECIALLY NEXT TO BUILDING AREAS, SHALL BE EXCAVATED OF ALL BUILDING MATERIAL, DEBRIS AND POOR SOILS TO A MINIMUM DEPTH OF 12"-18" AND BACKFILLED WITH A GOOD, MEDIUM TEXTURED PLANTING SOIL. ALL LAWN AREAS SHALL HAVE A MINIMUM OF 4"-6" OF TOPSOIL SPREAD PRIOR TO SEEDING OR SODDING AS MAY BE SPECIFIED. AREAS ADJACENT TO CURBS AND WALKS SHALL BE CROWNED A MINIMUM OF 4" HIGHER THAN THE TOP OF CURB OR WALK TO ALLOW FOR SETTLING, HOWEVER FINISHED GRADE IMMEDIATELY ADJACENT TO THE CURB OR WALK SHALL BE SUFFICIENTLY DEPRESSED TO ALLOW FOR THE SURFACE OF ANY MULCHING OR SOD TO BE EVEN WITH THE TOP OF CURB OR WALK.
- 13. PERMANENT SEED MIX SHALL BE AS NOTED ON THE EROSION AND SEDIMENT CONTROL PLAN NOTES. FALL PLANTINGS SEASON SHALL EXTEND FROM SEPTEMBER 1 TO OCTOBER 15, AND SPRING PLANTING SEASON SHALL EXTEND FROM APRIL 1 TO MAY 15.
- 14. ALL BORDERS BETWEEN LAWN AREAS AND PLANTING BEDS SHALL NOT HAVE EDGING UNLESS OTHERWISE NOTED ON THE PLANS.
- 15. COMPACTED EXISTING SOILS SHALL BE REMEDIATED WITH SOIL ADDITIVES OR SOIL REPLACEMENT PRIOR TO PLANTING.
- 16. SEE TREE PLANTING DETAILS FOR TREE PLANTING AND STAKING/STAPLING DIRECTIONS. SEE SHRUB PLANTING DETAILS FOR SHRUB PLANTING DIRECTIONS.TREE SHALL BE STAKED OR STAPLED IMMEDIATELY AFTER PLANTING.
- 17. REMOVE ALL TWINE AND WIRE FROM TREE AND SHRUB ROOT BALLS. REMOVE ALL BURLAP AND TWINE FROM ALL PLANT MATERIAL PRIOR TO PLANTING. UNTIL ALL TWINE AND/OR BURLAP FROM THE TRUNK OF THE PLANT MATERIAL AND REMOVE FROM PLANT. REMOVE ALL PLANT CONTAINERS PRIOR TO PLANTING.
- 18. PRUNE ALL PLANT MATERIAL AFTER PLANTING IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS. FINE PRUNE ALL PLANTS TO SHAPE. BUT DO NOT DISFIGURE PLANT MATERIAL. PRUNE ALL DEAD BRANCHES FROM PLANT MATERIAL.
- 19. LIMB DECIDUOUS, HIGH CANOPY (SHADE) TREES TO 8' ABOVE GRADE.
- 20. ALL PLANTINGS SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE LANDSCAPE PLANS. MINOR ADJUSTMENTS FOR FIELD CONDITIONS MAY BE REQUIRED. SIGNIFICANT ADJUSTMENTS NEEDS TO BE APPROVED BY THE OWNER PRIOR TO PLANTING. THE CONTRACTOR SHALL NOTIFY THE TOWNSHIP'S REPRESENTATIVE IF MAJOR ADJUSTMENTS ARE REQUIRED.
- 21. CANOPY TREES TO BE PLACED A MINIMUM OF 30" FROM PAVED AREAS AND WALKWAYS UNLESS OTHERWISE DIRECTED.
- 22. CONTRACTOR SHALL FINAL GRADE ALL PLANTING AREAS AND BERMS AS NECESSARY PRIOR TO THE INSTALLATION OF THE PLANT MATERIAL UNLESS FINAL GRADING IS TO BE PERFORMED BY OTHERS. REGARDLESS, PLANTING AREAS SHALL BE FINE RAKED SMOOTH AND EVEN AFTER THE INSTALLATION OF THE PLANT MATERIAL AND PRIOR TO MULCHING. NO PLANT MATERIAL SHALL BE INSTALLED AND NO RAKING SHALL OCCUR IF THE SOILS ARE SATURATED OR
- 23. TREES PLANTED IN LAWN AREAS TO BE MULCHED WITH A RING A MINIMUM OF 2' WIDE WITH A MINIMUM OF 3" OF MULCH UNLESS OTHERWISE NOTED OR REQUIRED FOR TREE PROTECTION. SHRUB BEDS TO BE MULCHED TO A MINIMUM DEPTH OF
- 24. SHRUB GROUPINGS SHOWN ON THE LANDSCAPE PLANS SHALL BE PLANTED AS A
- 25. MULCH TO BE SHREDDED HARDWOOD BARK. PRIOR TO INSTALLATION OF THE MULCH, SPREAD A PRE-EMERGIENT HERBICIDE.
- 26. PLANT MATERIAL SHALL BE INSTALLED THE SAME DAY AS IT IS DELIVERED TO THE SITE TO THE EXTENT PRACTICAL. ANY PLANT MATERIAL THAT IS NOT PLANTED THE SAME DAY IT ARRIVES SHALL BE PROTECTED FROM DRYING OUT BY THE CONTRACTOR UNTIL IT CAN BE PLANTED. TEMPORARY WATER SYSTEMS ARE TO BE USED FOR PLANT MATERIALS WHICH WILL BE STORED FOR MORE
- 27. CONTRACTOR SHALL THOROUGHLY WATER ALL MATERIAL PLANTED AT THE END
- 28. CONTRACTOR SHALL APPLY ANTI-DESICCANT TO PLANT MATERIAL FOR LATE SUMMER AND FALL PLANTINGS.
- 29. UPON COMPLETION OF PLANTING AND MULCHING AND AT THE END OF EACH DAY, CONTRACTOR SHALL REMOVE ALL EXTRANEOUS MATERIAL AND DEBRIS, BROOM SWEEP AND WASH THE AREA CLEAN.
- 30. CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF 18 MONTHS FROM THE DATE OF ACCEPTANCE BY THE OWNER. ALL PLANT MATERIAL THAT DOES NOT SURVIVE THE GUARANTEE PERIOD SHALL BE REPLACED BY THE CONTRACTOR. DEAD PLANTS SHALL BE REPLACED NO LATER THAN THE NEXT PLANTING SEASON.
- 31. CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS BEFORE THE COMPLETION OF THE GUARANTEE PERIOD AND SCHEDULE A FINAL INSPECTION OF THE PLANT MATERIAL AND LAWN AREAS. AT OR BEFORE THE FINAL INSPECTION, CONTRACTOR SHALL REMOVE ANY REMAINING TREE STAKES/STAPLES AND PRUNE THE PLANT MATERIAL AS NEEDED UNLESS OTHERWISE DIRECTED BY THE OWNER. FINAL INSPECTION OF LANDSCAPING SHALL BE PERFORMED WHILE TREES ARE FULLY LEAFED OUT, TYPICALLY MAY 15 - NOVEMBER 1.
- 32. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES THAT ARE NOT SHOWN TO BE PLANTING BEDS ON THE LANDSCAPE PLANS, SHALL BE SEEDED AS LAWN AREAS PER THE SEEDING SPECIFICATIONS ON THE EROSION AND SEDIMENT CONTROL NOTES WITHIN THESE PLANS.
- 33. CONTRACTOR SHALL PROVIDE ALL TOPSOIL, FERTILIZERS AND OTHER ADDITIVES AS REQUIRED UNLESS OTHERWISE DIRECTED BY THE OWNER. ALL MATERIALS USED SHALL BE AS SPECIFIED OR BETTER.
- 34. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE PLANT MATERIAL UNTIL SUCH TIME AS THE PROJECT IS ACCEPTED BY THE OWNER.
- 35. CONTRACTOR SHALL PROVIDE THE OWNER WITH WRITTEN INSTRUCTIONS REGARDING THE CARE OF THE PLANT MATERIAL AND ANY SPECIAL CIRCUMSTANCES.



REE STAPLE STAPLE PER CALIPER MODEL TREE 2 with up to 16 TS24 (24") 1 - 2" Root Ball 2 with a 24" TS36 (36") 2 - 4" Root Ball 3 with a 30" TS42 (42") 4 - 6"

TREE STAPLE CHART

NO. OF TREE

**EVERGREEN PLANTINGS TO BE** SPRAYED W/ WILT-PROOF WHEN PLANTED IN FALL

FOLIAGE OF DEC. TREES TO BE PRUNED BACK BY ONE-THIRD. CUTTING OFF WHOLE BRANCHES, NOT TIPS. RETAIN NATURAL SHAPE, DO NOT CUT LEADER

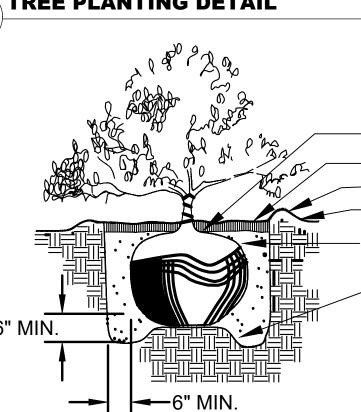
GRADE AT WHICH TREE GREW 3" OF APPROVED MULCH

- 6" SAUCER

CUT AND REMOVE ALL TWINE AND BURLAP, EXPOSING ENTIRE SURFACE OF ROOT BALL

BACKFILL MIX: 20 PERCENT COMPOST MIXED WITH 80 PERCENT NATIVE SOILS. COMPOST SHALL CONSIST OF ORGANIC MATERIALS, EXCLUDING SAWDUST AND WOODCHIPS, LOOSEN AND BREAK UP ANY CLODS OF SOIL BEFORE BACKFILLING. ALLOW NO AIR POCKETS IN BACKFILL

TREE PLANTING DETAIL



GRADE AT WHICH SHRUB GREW — 3" OF APPROVED MULCH

- FINISHED GRADE

CUT AND REMOVE BURLAP OR POLY **CONTAINER FROM ROOT BALL** 

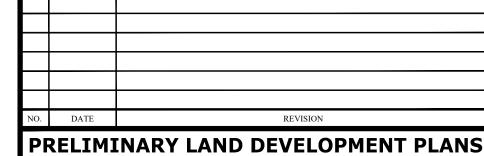
**BACKFILL MIX: 20 PERCENT COMPOST** MIXED WITH 80 PERCENT NATIVE SOILS. COMPOST SHALL CONSIST OF ORGANIC MATERIALS, EXCLUDING SAWDUST AND WOODCHIPS. LOOSEN AND BREAK UP ANY CLODS OF SOIL BEFORE BACKFILLING. ALLOW NO AIR POCKETS IN BACKFILL

SHRUB PLANTING DETAIL

NTS

NTS

LANDSCAPE & LIGHTING DETAILS



**GLENSIDE ELEMENTARY SCHOOL BUILDING ADDITIONS & RENOVATIONS** CHELTENHAM TWP. - MONTGOMERY COUNTY - PENNSYLVANIA

2/21/2024



RRB

CHECKED BY JRM **SHEET 16 OF 17** 

ASSESSMENT MAP BLOCK: 137 UNIT 39

