FINAL LAND DEVELOPMENT PLAN FOR

BAUGHER ELEMENTARY IMPROVEMENTS BOROUGH OF MILTON, NORTHUMBERLAND COUNTY, PENNSYLVANIA



PENNSYLVANIA ACT 287 AS AMENDED REQUIRES 3 BUSINESS DAYS FOR CONSTRUCTION PHASE AND 10 BUSINESS DAYS IN DESIGN STAGE - STOP CALL

- 1. LDG ADVISES IT HAS REQUESTED LINE AND UTILITY INFORMATION FROM THE PA ONE CALL SYSTEM (POCS) IN ACCORDANCE WITH THE REQUIREMENTS OF THE UNDERGROUND UTILITY LINE PROTECTION ACT, ACT 287 AS AMENDED. POCS SERIAL NUMBER: 20193050880 DATE: NOVEMBER 01, 2019
- 2. THE FACILITIES SHOWN ON THESE PLANS ARE SHOWN BASED ON INFORMATION GATHERED USING SUBSURFACE UTILITY ENGINEERING QUALITY LEVEL: C SUBSURFACE UTILITY ENGINEERING (SUE) QUALITY LEVELS INCLUDE: LEVEL D - UTILITY RECORDS RESEARCH AND INTERVIEWS WITH KNOWLEDGEABLE UTILITY PERSONNEL; LEVEL C - SURFACE SURVEYS TO IDENTIFY AND RECORD ABOVE GROUND FEATURES OF SUBSURFACE UTILITIES; LEVEL B - APPLICATION OF GEOPHYSICAL METHODS TO GATHER AND RECORD APPROXIMATE HORIZONTAL AND VERTICAL POSITIONAL DATA: AND

LEVEL A - EXPOSURE OF LINES VIA VACUUM EXCAVATION TO PROVIDE PRECISE HORIZONTAL AND VERTICAL

ADDRESS: 5585 STATE ROUTE 405

CONTACT: GREG BEAUSEIGNEUR

ADDRESS: 503 NEW MARKET ST

EMAIL: mcsantayana@pplweb.com

CONTACT: MARK SANTAYANA

ADDRESS: 105 SODOM RD

CONTACT: DEAN KIRKENDALL

MILTON, PA. 17847

EMAIL: gbeauseigneur@miltonregional.org

COMPANY: PPL ELECTRIC UTILITIES CORPORATION

WILKES BARRE, PA. 18702

COMPANY: PENNSYLVANIA AMERICAN WATER

MILTON, PA. 17847

EMAIL: dean.kirkendall@amwater.com

3. THE FOLLOWING FACILITY OWNERS HAVE INDICATED THROUGH POCS THAT THEY HAVE LINES IN THE PROJECT

COMPANY: SERVICE ELECTRIC CABLEVISION COMPANY: MILTON REGIONAL SEWER AUTH ADDRESS: 3662 POINT TOWNSHIP DR NORTHUMBERLAND, PA. 17857 CONTACT: DON PHILLIPS EMAIL: don.phillips@secv.com

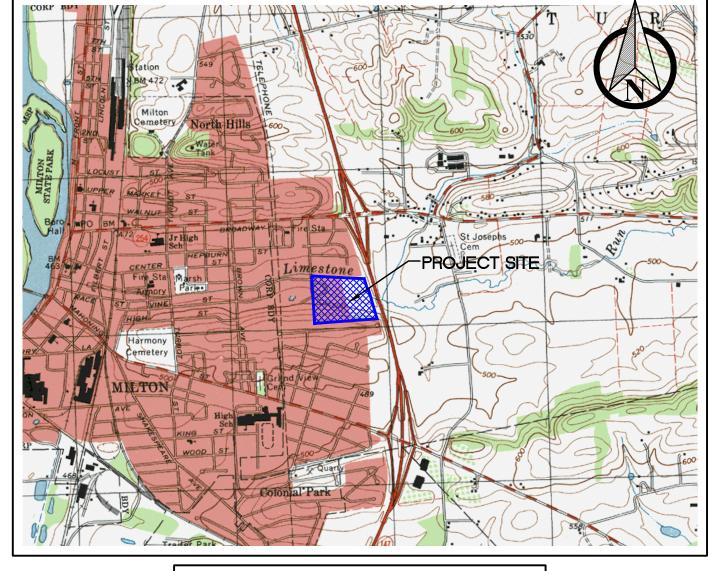
COMPANY: UGI UTL LANCASTER

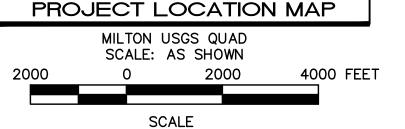
ADDRESS: 1 UGI CENTER WILKES BARRE, PA. 18771 CONTACT: KIM SERIS EMAIL: kseris@ugi.com

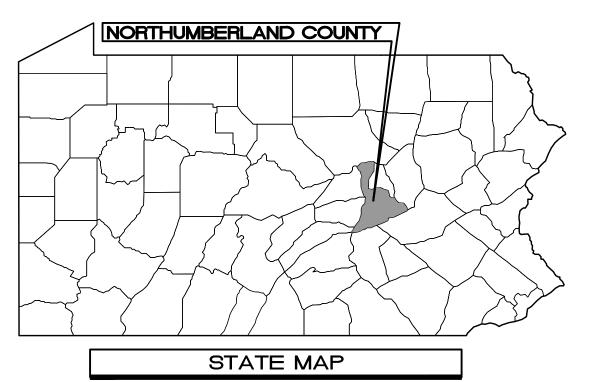
COMPANY: VERIZON PENNSYLVANIA LLC ADDRESS: 1026 HAY ST PITTSBURGH, PA. 15221 CONTACT: DEBORAH BARUM EMAIL: deborah.d.delia@verizon.com

COMPANY: MILTON BOROUGH ADDRESS: 2 FILBERT ST MILTON, PA. 17847 CONTACT: WAYNE SHAFFER EMAIL: mfd1501@gmail.com

- 4. PENNSYLVANIA LAW REQUIRES THE CONTRACTOR TO CALL 3 BUSINESS DAYS BEFORE YOU DIG. CALL 1-800-242-1776 OR 811.
- 5. LARSON DESIGN GROUP DOES NOT MAKE ANY REPRESENTATION, WARRANTY, ASSURANCE OR GUARANTEE THAT THE INFORMATION RECEIVED PURSUANT TO ACT 287 AS AMENDED AND REFLECTED ON THESE DRAWINGS IS CORRECT OR ACCURATE, BUT LARSON DESIGN GROUP IS REFLECTING SAID INFORMATION ON THESE DRAWINGS IN ACCORDANCE WITH THE REQUIREMENTS OF ACT 287 AS AMENDED.





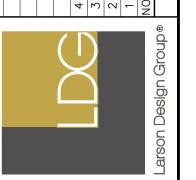


GENERAL NOTES

- APPLICANT/OWNER/RESPONSIBLE PARTY: MILTON AREA SCHOOL DISTRICT 700 MAHONING STREET MILTON, PA 17847 PHONE: 570.742.7685
- 2. ENGINEER: LARSON DESIGN GROUP ATTN: CHRISTOPHER SHEAFFER, PE 1780 ROUTE 522 SELINSGROVE, PA 17870 PHONE: 570.374.5700 EMAIL: csheaffer@larsondesigngroup.com
- NORTHUMBERLAND COUNTY MUNICIPALITY: BOROUGH OF MILTON
- 4. PROJECT LOCATION: LOCATED IN THE BOROUGH OF MILTON, AT 60 BRENDA ROVENOLT DRIVE, MILTON, PA 17847.
- MILTON AREA SCHOOL DISTRICT IS PROPOSING TO MAKE NECESSARY IMPROVEMENTS TO THE PARENT AND BUS DROP-OFF AREAS TO PROVIDE BETTER
- PIN#: 033-00-019-124C; DEED BOOK 1113 PAGE 201, TRACT 7
- 7. NO EXISTING WETLANDS HAVE BEEN IDENTIFIED BY THE NATIONAL WETLANDS INVENTORY WEBSITE OR BY FIELD OBSERVATION.
- 8. ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP (42097C0115D), A PORTION OF THE PROJECT IS LOCATED IN THE 100-YEAR
- 9. THE PROJECT WILL BE SERVED BY PUBLIC WATER AND SANITARY SEWER.
- 10. LIMIT OF DISTURBANCE = 15.5 ACRES
- 11. NPDES PERMIT BOUNDARY = 25.6 ACRES

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+	2020.07.27	4 2020.07.27 FINAL LAND DEVELOPMENT SUBMISSION II	ARH	ARH CMS
3	2020.07.22	3 2020.07.22 NPDES SUBMISSION II	ARH	CMS
\sim	2020.06.24	2 2020.06.24 FINAL LAND DEVELOPMENT SUBMISSION	ARH	CMS
	2020.06.19	2020.06.19 NPDES SUBMISSION	ARH	ARH CMS
0.	DATE	COMMENTS	ВҮ	ВҮ СНКД



C0.0 ROJECT NO.:

7164-006

CERTIFICATE OF OWNERSHIP AND ACKNOWLEDGMENT OF PLAN

COMMONWEALTH OF PENNSYLVANIA COUNTY OF _____

ON THIS, THE ___ DAY OF _____, 2020, BEFORE ME, A NOTARY PUBLIC, IN AND FOR THE COMMONWEALTH AND COUNTY AFORESAID, THE UNDERSIGNED OFFICER, PERSONALLY APPEARED KNOWN TO ME (OR SATISFACTORILY PROVEN), WHO ACKNOWLEDGED HIMSELF TO BE A _ AND THAT HE AS SUCH

BEING AUTHORIZED TO DO SO, ACKNOWLEDGE THE SAME TO BE THEIR ACT AND PLAN, AND DESIRE THE SAME TO BE RECORDED AS SUCH ACCORDING

SIGNATURE OF IDENTIFYING OWNER

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

NOTARY PUBLIC

NORTHUMBERLAND COUNTY RECORDER OF DEEDS

A COPY OF THE SIGNED FINAL PLAN SHALL BE RECORDED IN THE OFFICE OF THE NORTHUMBERLAND COUNTY RECORDER OF DEEDS WITHIN NINETY (90) DAYS AFTER APPROVAL OF THE FINAL PLAN OR THE APPROVAL OF THE PLANNING COMMISSION SHALL BE NULL AND VOID.

RECORDED IN MAP BOOK ______, PAGE _____

NORTHUMBERLAND COUNTY PLANNING COMMISSION REVIEW CERTIFICATE THIS PLAN REVIEWED BY THE NORTHUMBERLAND COUNTY PLANNING COMMISSION THIS ______, 20_____,

SECRETARY _____

MILTON BOROUGH PLANNING COMMISSION CERTIFICATE

FINAL PLAN RECOMMENDATION GRANTED BY THE PLANNING COMMISSION OF THE BOROUGH ON _____, 20<u>20</u>. THE FINAL PLAN INCLUDES THE COMPLETE SET OF PLANS AND INFORMATION THAT WAS FILES AS PART OF THE APPLICATION.

CHAIRMAN

VICE CHAIR PERSON OR SECRETARY

MILTON BOROUGH COUNCIL CERTIFICATE

THIS MILTON BOROUGH COUNCIL, AS REQUIRED BY THE MILTON BOROUGH CODE, HAS RECEIVED A COPY OF THE FINAL PLAN FOR THE BAUGHER ELEMENTARY IMPROVEMENTS ON 2020 FOR REVIEW AND APPROVAL.

CHAIR PERSON

VICE CHAIR PERSON OR SECRETARY

I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THE PLAN SHOWN AND DESCRIBED HEREON IS TRUE AND CORRECT TO THE

ACCURACY REQUIRED BY THE MUNICIPALITY'S SUBDIVISION AND LAND DEVELOPMENT ORDINANCE.

SIGNATURE:

C2.0 C2.1 DEMOLITION PLAN SITE LAYOUT PLAN GRADING AND STORMWATER PLAN - NORTH GRADING AND STORMWATER PLAN - SOUTH C4.1 GRADING AND STORMWATER PLAN - EAST C4.2 STORMWATER PIPE PROFILES C5.0 STORMWATER PIPE PROFILES D1.0-D1.2 SITE DETAILS EXISTING CONDITIONS/DEMOLITION PLAN ES2.0 SITE LAYOUT PLAN ES2.1 PERMIT PLAN EROSION AND SEDIMENT CONTROL PLAN - NORTH ES3.0 ES3.1 EROSION AND SEDIMENT CONTROL PLAN - SOUTH ES3.2 EROSION AND SEDIMENT CONTROL PLAN - EAST ES4.0 EROSION AND SEDIMENT CONTROL DETAILS ES4.1 EROSION AND SEDIMENT CONTROL DETAILS EROSION AND SEDIMENT CONTROL NOTES ES5.0

EROSION AND SEDIMENT CONTROL NOTES

GENERAL NOTES AND LEGEND

EXISTING CONDITIONS PLAN

SHEET INDEX

C1.0

COVER SHEET

GENERAL LAND DEVELOPMENT NOTES

- EXISTING FEATURES SHOWN ON THIS SITE PLAN WERE TAKEN FROM A SURVEY PREPARED BY LARSON DESIGN GROUP, DATED NOVEMBER 6, 2019.
- HORIZONTAL CONTROL: NORTH AMERICAN DATUM 1983 (NAD83)
- VERTICAL CONTROL: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

THE FOLLOWING BENCHMARKS HAVE BEEN SET FOR THIS PROJECT.

- BM1: CHISEL SQ. ON SE CORNER OF LIGHT POLE
- N: 311221.6520 / E: 2220575.8040 / ELEV: 475.79
- BM2: CHISEL X ON EAST BOLT OF HYDRANT
- N: 310999.7700 / E: 2220404.4190 / ELEV: 479.26
- BM3: CHISEL SQ. ON NE CORNER OF CONCRETE SLAB
- BM3: CHISEL SQ. ON NE CORNER OF CONCRETE SLAB
- N: 310750.2190 / E: 2220662.4790 / ELEV: 482.68
 BM4: CHISEL SQ. ON SIDEWALK CORNER
- N: 310890.7780 / E: 2220996.7600 / ELEV: 482.02
- 2. THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND MAY BE SUBJECT TO EASEMENTS AND OTHER RESTRICTIONS, EITHER RECORDED OR UNRECORDED. LDG HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENT OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE OTHER THAN WHAT IS SHOWN ON THIS PLAN.
- 8. ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP (42097C0115D), A PORTION OF THE PROJECT IS LOCATED IN THE 100—YEAR FLOODPLAIN.
- 9. BASED ON A PENNSYLVANIA NATURAL DIVERSITY INDEX AND NORTHUMBERLAND COUNTY NATURAL AREAS INVENTORY SEARCH, NO KNOWN CONFLICTS WERE IDENTIFIED WITHIN THE PROJECT SITE.
- 10. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE STARTING WORK. ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS, SPECIFICATIONS, SITE CONDITIONS, OR ANY INCONSISTENCIES OR AMBIGUITIES IN THE DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE PROJECT'S OWNER IN WRITING. THE OWNER SHALL PROMPTLY ADDRESS SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR AFTER HIS DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES, OR AMBIGUITIES, WITHOUT RECEIVING A RESPONSE FROM THE PROJECT'S OWNER SHALL BE DONE AT THE CONTRACTOR'S RISK.
- 11. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER, IN WRITING, OF ANY SUBSURFACE OR LATENT PHYSICAL CONDITIONS AT THE SITE DIFFERING MATERIALLY FROM THOSE INDICATED IN THE CONTRACT DOCUMENTS.
- 12. ALL SITE/CIVIL IMPROVEMENTS SHALL BE COORDINATED WITH OTHER PRIME CONTRACTOR WORK. SEE ARCHITECTURAL, STRUCTURAL, PLUMBING AND ELECTRICAL SHEETS FOR ADDITIONAL REQUIREMENTS.
- 13. THESE CONTRACT DRAWINGS ARE PART OF THE CONTRACT DOCUMENTS FOR THE CONSTRUCTION OF ALL PROPOSED IMPROVEMENTS, COMPLETE AND IN PLACE. CONTRACTOR SHALL CAREFULLY REVIEW ALL DOCUMENTS INCLUDING BUT NOT LIMITED TO THE GENERAL CONDITIONS, AGREEMENT, GENERAL SPECIFICATIONS, TECHNICAL SPECIFICATIONS AND ALL ISSUED CORRECTIVE PLANS, INTERPRETATIONS, AND OTHER DOCUMENTATION ISSUED THROUGHOUT THE LENGTH OF THE CONTRACT.
- 14. THIS PLAN IS NOT TO BE CONSTRUED AS AN ENVIRONMENTAL AUDIT/ASSESSMENT PLAN. THIS SURVEY MAKES NO WARRANTY OR GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ENVIRONMENTAL CONDITIONS OF THE PREMISES HEREON DESCRIBED I.E., THE DETECTION OF SUBSURFACE CONTAMINANTS AS DEFINED IN D.E.P. TITLE 25—PA CODES 75, 101, 271, 273, 275, 277, 279, 281, AND 285.
- 15. THE CONTRACTOR, DURING THE PERFORMANCE OF ALL WORK ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT, IS RESPONSIBLE FOR COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS, CODES, AND REGULATIONS. THE CONTRACTOR SHALL TAKE ALL SAFETY PRECAUTIONS AS REQUIRED TO PROTECT EMPLOYEES AND OTHER PERSONS FROM INJURY
- 16. THE CONTRACTOR IS NOTIFIED THAT OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) CLEARANCES MUST BE MAINTAINED TO OVERHEAD POWER LINES FROM ANY CONSTRUCTION EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF OSHA STANDARDS IN THIS REGARD.
- 17. OSHA EXCAVATION STANDARD SHALL APPLY TO THIS CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY OF TRENCH AND STRUCTURES.
- 18. WORK ON THIS PROJECT SHALL CONFORM TO THE PROJECT SPECIFICATIONS AND, WHERE APPLICABLE, THE LATEST STANDARDS AND SPECIFICATIONS OF THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION (PENNDOT). IN THE CASE OF CONFLICT, THE PROJECT'S OWNER SHALL BE NOTIFIED FOR CLARIFICATION. ALL WORK IN THE LEGAL RIGHT—OF—WAY IS TO BE BUILT ACCORDING TO CURRENT EDITION OF THE FOLLOWING PUBLICATIONS, AS AMENDED, AT THE TIME OF BIDDING:
 - APPROVED CONSTRUCTION MATERIALS (BULLETIN 15), (PENNDOT PUBLICATION 35)
 - STANDARDS FOR ROADWAY CONSTRUCTION (PENNDOT PUBLICATION 72)
 - TRAFFIC CONTROL PAVEMENT MARKINGS & SIGNING STANDARDS, TC-8600 & TC-8700 SERIES (PENNDOT PUBLICATION 111)
- TRAFFIC STANDARDS SIGNALS, TC-8800 SERIES (PENNDOT PUBLICATION 148)
- OFFICIAL TRAFFIC CONTROL DEVICES (PENNDOT PUBLICATION 212)
- TEMPORARY TRAFFIC CONTROL GUIDELINES (PENNDOT PUBLICATION 213)
- SPECIFICATIONS (PENNDOT PUBLICATION 408)
- PENNSYLVANIA CODE, TITLE 67, TRANSPORTATION, CHAPTER 459, OCCUPANCY OF HIGHWAYS BY UTILITIES
- THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (FHWA PUBLICATION MUTCD)

 MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION SHALL BE IN
- 15. MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH PENNDOT PUBLICATION 213, "TEMPORARY TRAFFIC CONTROL GUIDELINES", AS AMENDED.
 - ALL WORK ZONE TRAFFIC CONTROL (WZTC) SIGNING IS TO BE TYPE III SHEETING.
 - USE "ROAD WORK" LEGEND IN LIEU OF ROAD CONSTRUCTION LEGEND ON ALL APPLICABLE SIGNS.
- DAY PERIOD.

 DO NOT STOP TRAFFIC FLOW WITHIN THE WORK AREA FOR MORE THAN A FIVE (F

REMOVE ALL SHORT TERM WZTC SIGNING UPON COMPLETION OF THAT DAY'S WORK

- DO NOT STOP TRAFFIC FLOW WITHIN THE WORK AREA FOR MORE THAN A FIVE (5)
 MINUTE PERIOD AT ANY TIME.
- SHORT TERM SIGNING: PUBLICATION 213 FIGURES PATA 107.
- THE CONTRACTOR SHALL COMPLY WITH ACT 229 OF DECEMBER 2002 DURING CONSTRUCTION ACTIVITIES WITHIN PENNDOT RIGHT—OF—WAY (REFERENCE PUBLICATION 213 PATA 003)
- 16. IF ADJUSTMENTS TO EXISTING UTILITIES ARE REQUIRED, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND WORK WITH UTILITY OWNERS FOR THE ADJUSTMENT

GENERAL LAND DEVELOPMENT NOTES

OR RELOCATION OF UTILITY SURFACE FEATURES, I.E., VALVE BOXES, UTILITY POLES, MANHOLES, ETC. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE RELOCATION OF CONFLICTING UTILITIES WHICH ARE A RESULT OF THESE IMPROVEMENTS.

- 17. THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS SITE PLAN ARE BASED ON THE BEST AVAILABLE INFORMATION AND SHALL BE CONSIDERED APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL PUBLIC OR PRIVATE UTILITIES WHICH LIE IN OR ADJACENT TO THE PROJECT SITE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATELY REPAIRING, AT HIS EXPENSE, ALL EXISTING UTILITIES DAMAGED DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE PA—ONE CALL SYSTEM AT 800—242—1776 OR 811 NO LESS THAN THREE (3) WORKING DAYS PRIOR TO BEGINNING WORK AS REQUIRED BY PENNSYLVANIA STATE LAW. STOP—CALL BEFORE YOU DIG!
- 18. THE CONTRACTOR SHALL COMPLY WITH THE APPROVED E&S PLAN. STRIPPING OF VEGETATION, RE-GRADING, OR OTHER WORK, SHALL BE DONE IN A MANNER THAT WILL MINIMIZE EROSION. ANY EROSION AND SEDIMENT POLLUTION CONTROLS THAT ARE DEEMED NECESSARY BY THE LOCAL COUNTY CONSERVATION DISTRICT SHALL BE IMPLEMENTED IMMEDIATELY BY THE CONTRACTOR. WHENEVER SEDIMENTATION IS CAUSED BY STRIPPING VEGETATION, RE-GRADING, OR OTHER DEVELOPMENT, IT SHALL BE THE RESPONSIBILITY OF THE PERSON, CORPORATION OR OTHER ENTITY CAUSING SUCH SEDIMENTATION TO REMOVE IT FROM ALL ADJOINING SURFACES, DRAINAGE SYSTEMS, AND WATERCOURSES AND TO REPAIR ANY DAMAGE. DISTURBED SOILS SHALL BE STABILIZED IMMEDIATELY. TEMPORARY VEGETATION AND/OR MULCHING SHALL BE USED TO PROTECT EXPOSED CRITICAL AREAS DURING CONSTRUCTION. MEASURES NECESSARY FOR DUST CONTROL SHALL BE EXERCISED DURING ALL CONSTRUCTION OPERATIONS.
- 19. THE DESIGNATION OF EXCESS WASTE DISPOSAL AND CONSTRUCTION STAGING AREAS, WHICH MAY BE REQUIRED BUT ARE NOT NOTED ON THE PLANS, ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL CONSTRUCTION DEBRIS, INCLUDING EXCESS EXCAVATED MATERIAL, ASPHALT, CONCRETE, SCRAP WOOD, ETC. SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
- 20. EROSION AND SEDIMENT POLLUTION CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY, RELOCATED AS NECESSARY, AND SHALL BE CHECKED AFTER EVERY RAINFALL. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED, AND MULCHED, AS NECESSARY, TO OBTAIN A DENSE COVER OF GRASS.
- 21. ALL EXCAVATIONS, INCLUDING TRENCHES, SHALL BE KEPT DRY TO PROTECT THEIR INTEGRITY. IF PUMPING OF AN OPEN TRENCH IS NECESSARY DURING THE COURSE OF CONSTRUCTION, A SEDIMENT FILTER BAG OR OTHER FORM OF FILTERING IS REQUIRED BEFORE DISCHARGING INTO THE STORM SYSTEM.
- 22. ALL INLETS WITHIN THE PROJECT SITE SHALL BE EQUIPPED WITH STRUCTURAL STEEL BICYCLE SAFE GRATES, UNLESS SPECIFICALLY STATED OTHERWISE, AND BE SET FLUSH WITH THE ADJACENT WEARING COURSE OR FINISHED GRADE.
- 23. CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE ACROSS PAVEMENTS IS PROVIDED AND NO LOW SPOTS OR PUDDLING OCCUR WITHIN THE LIMITS OF WORK UNLESS NATURALLY OCCURRING.
- 24. ALL TRENCHING SHALL OCCUR AS DESIGNATED IN THIS PLAN SET. THE CONTRACTOR SHALL USE EQUIPMENT APPROPRIATE TO MAINTAIN A MAXIMUM PAVEMENT OPENING. IF THE CONTRACTOR PROPOSES A REVISED TRENCHING METHOD OR ALIGNMENT, ENGINEER AND OWNER SHALL BE NOTIFIED IMMEDIATELY.
- 25. CONTRACTOR SHALL BACKFILL ALL CURBS AND PAVEMENTS FLUSH WITH TOPSOIL AND SEED/MULCH IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS.
- 26. ALL EXISTING SIGNS DISTURBED DURING CONSTRUCTION SHALL BE REINSTALLED IN ACCORDANCE WITH APPLICABLE LOCAL, COUNTY, STATE, AND FEDERAL REGULATIONS.
- 27. ALL AREAS WHICH ARE DISTURBED BY CONSTRUCTION AND ARE NOT TO BE PAVED, SHALL BE RESTORED WITH A MINIMUM SIX (6") INCHES OF TOPSOIL AND SEEDED AND MULCHED.
- 28. ALL EXISTING PAVEMENT TO BE REMOVED SHALL BE SAW CUT ALONG LIMITS OF PROPOSED PAVEMENT REMOVAL BEFORE REMOVAL OPERATIONS BEGIN. THE CONTRACTOR IS RESPONSIBLE FOR THE OFF-SITE DISPOSAL OF REMOVED PAVEMENTS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- 29. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING MEASURES TO PREVENT DAMAGE TO ALL EXISTING FEATURES (TO REMAIN) WITHIN PROJECT LIMITS AND ALONG ADJACENT PROPERTIES.
- 30. PER PennDOT PUBLICATION 408, SECTION 409.3—CONSTRUCTION, NO BITUMINOUS PAVEMENT WILL BE PLACED BETWEEN NOVEMBER 1 AND MARCH 31, UNLESS AN EXTENSION OF THE PAVING SEASON IS GRANTED IN WRITING BY THE DISTRICT EXECUTIVE. ALL ASPHALT TO ASPHALT AND ASPHALT TO CONCRETE JOINTS SHALL BE SEALED IN ACCORDANCE WITH PUB 408, SECTION 409.3(k)3. ALL ASPHALT TO ASPHALT AND ASPHALT TO CONCRETE JOINTS SHALL BE SEALED IN ACCORDANCE WITH PUB 408, SECTION 409.3(k)3.
- 31. CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT THE WORKMEN AND THE PUBLIC SHALL BE PROTECTED FROM INJURY AND ADJOINING PROPERTY PROTECTED FROM DAMAGE. CONTRACTOR SHALL KEEP THE WORK AREA FREE FROM THE ACCUMULATION OF WASTE MATERIAL OR RUBBISH CAUSED BY THEIR EMPLOYEES OR WORK. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REMOVE ALL RUBBISH FROM AND ABOUT THE PREMISES AND ALL TOOLS, EQUIPMENT, APPARATUS, AND SURPLUS MATERIAL. THE CONSTRUCTION SITE SHALL BE LEFT CLEAN TO THE OWNER'S SATISFACTION.
- 32. THE INFORMATION SHOWN ON THESE DRAWINGS MAY HAVE ALSO BEEN RELEASED IN A DIGITAL DRAWING FORMAT. ONCE A DRAWING IS RELEASED FROM LDG IN DIGITAL FORMAT, LDG HAS NO CONTROL OVER THE MANIPULATION OR MISUSE OF THAT DATA CONTAINED IN THAT FILE. THE VIEWER IS THEREFORE CAUTIONED AND SHOULD COMPARE ANY SUBSEQUENT REPRODUCTIONS OR MANIPULATIONS OF THIS DATA WITH THE ORIGINAL HARD COPY SEALED PLAN PROVIDED BY LDG. THE USER OF THE DIGITAL DATA IS ALSO CAUTIONED THAT ANY USE OF THE DATA CONTAINED IN THE DIGITAL FILE, WHICH IS NOT SHOWN ON THE HARD COPY DRAWINGS, IS AT THE SOLE RISK OF THE USER.
- 33. THE OWNER SHALL PREPARE AND EXECUTE NECESSARY UTILITY EASEMENTS FOR PROPOSED RELOCATED UTILITIES IN ACCORDANCE WITH THE UTILITY PROVIDER'S REQUIREMENTS.

OPERATION AND MAINTENANCE PROCEDURES

CATCH BASINS, CULVERTS, AND OUTLET STRUCTURES

ALL CATCH BASINS, CULVERTS AND OUTLET STRUCTURES SHOULD BE INSPECTED AND CLEANED ANNUALLY AND AFTER RUNOFF EVENTS AS NECESSARY.

CHANNELS

- MAINTENANCE ACTIVITIES TO BE DONE ANNUALLY AND WITHIN 48 HOURS AFTER EVERY MAJOR STORM EVENT (GREATER THAN 1" RAINFALL DEPTH.)
- INSPECT VEGETATION/RIPRAP ON SIDE SLOPES FOR EROSION AND FORMATION OF RILLS
- OR GULLIES. CORRECT AS NEEDED.
- INSPECT FOR POOLS OF STANDING WATER; DEWATER AND DISCHARGE WATER AT AN APPROPRIATE LOCATION IF NECESSARY.
- MOW AND TRIM VEGETATION TO ENSURE SAFETY, AESTHETICS, PROPER CHANNEL OPERATION, OR TO SUPPRESS WEEDS AND INVASIVE VEGETATION. DISPOSE OF CUTTINGS IN A LOCAL COMPOSTING FACILITY. MOW ONLY WHEN CHANNEL IS DRY TO AVOID RUTTING.
- INSPECT FOR LITTER; REMOVE PRIOR TO MOWING.
 INSPECT FOR UNIFORMITY IN CROSS—SECTION AND LONGITUDINAL SLOPE; CORRECT AS
- NEEDED.

 INSPECT CHANNEL INLET (CURB CUTS, PIPES, ETC.) AND OUTLET FOR SIGNS OF EROSION

VEGETATED AND LANDSCAPED AREAS

OR BLOCKAGE; CORRECT AS NEEDED.

- REPAIR, RESEED AND REMULCH ANY AREAS OF UNIFORM VEGETATED COVER OR LANDSCAPING THAT ERODE DUE TO SUBSTANTIAL RAINFALL EVENTS.

 PEAR TREES AND SHRIPS WILL BE REMOVED AND REDI ACED AS NECESSARY.
- DEAD TREES AND SHRUBS WILL BE REMOVED AND REPLACED AS NECESSARY.

BASIN (INFILTRATION/DETENTION)

- WHILE VEGETATION IS BEING ESTABLISHED, PRUNING AND WEEDING WILL BE PERFORMED AS NECESSARY. WEEDS ARE TO BE REMOVED THEREAFTER BY HAND.
- DETRITUS MAY ALSO NEED TO BE REMOVED APPROXIMATELY TWICE PER YEAR.
 SHALL BE INSPECTED AT LEAST TWICE YEARLY FOR SEDIMENT BUILD—UP, EROSION,
- VEGETATIVE CONDITIONS, ETC.
 IF THE BASINS HAVE STANDING WATER AFTER 72 HOURS, THE SHEAR GATE INSTALLED ON THE BASIN OUTLET STRUCTURE SHOULD BE OPENED AND DRAINED. WHEN EMPTY THE GATE MUST BE CLOSED AND REMAIN CLOSED AT ALL OTHER TIMES. AN ENGINEER

SHOULD BE CONSULTED IN ORDER TO CORRECT BASIN DEWATERING/INFILTRATION ISSUES.

PROPOSED EXISTING FEATURES TEXT FEATURES TEXT Feature text PROPERTY LINE RIGHT-OF-WAY LINE EASEMENT LINE CONTOUR LINE CENTER LINE OF ROAD BUILDING SETBACK BUILDING LINE FENCE LINE EDGE OF PAVEMENT GRAVEL CONCRETE CURB CONCRETE/SIDEWALK SIGN BENCHMARK DITCH/SWALE DRAINAGE LINE, MANHOLE & CB OH H SANITARY SEWER & MANHOLE WATER MAIN & VALVE SEWER FORCE MAIN

LEGEND

ROCK CONSTRUCTION ENTRANCE
ROCK FILTER

GAS MAIN & VALVE

UNDERGROUND ELECTRIC

UNDERGROUND CABLE TV

OVERHEAD UTILITIES & POLE

UNDERGROUND TELEPHONE

18" FILTER FABRIC FENCE

30" FILTER FABRIC FENCE

NPDES PERMIT BOUNDARY

LIMIT OF DISTURBANCE

SOILS BOUNDARY

DRAINAGE DIVIDES

DRAINAGE SWALE

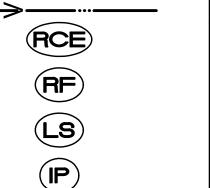
SOIL TYPE

SUPER FILTER FABRIC FENCE

GUIDE RAIL

LEVEL SPREADER

INLET PROTECTION



ZONING REQUIREMENTS

ZONING DISTRICT — R-2 MODERATE DENSITY RESIDENTIAL DISTRICT

A. ALL OF THE FOLLOWING REQUIREMENTS HAVE BEEN TAKEN FROM THE MILTON BOROUGH
ZONING ORDINANCE (1817) (SECTION 303)

REQUIRED PROVIDED MINIMUM LOT REQUIREMENTS MINIMUM LOT AREA 8000 SF 25.06 ACRES MINIMUM LOT WIDTH 60 FEET 991 FEET MAXIMUM BUILDING COVERAGE 35% 6.2% MAXIMUM IMPERVIOUS SURFACE 50% 23.2% **BUILDING SETBACK REQUIREMENTS:** 20' FRONT YARD 10' SIDE YARD 20' REAR YARD PARKING SETBACK REQUIREMENTS: FRONT YARD SIDE YARD REAR YARD

NUMBER OF PARKING SPACES EXISTING - 101 SPACES PROPOSED - 138 SPACES CHRISTOPHER MICHAEL SHEAFFERS

ENGINEER

No. 78743

REGISTERED

/\ PROFESSIONAL \(

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4 2020.07.27 FINAL LAND DEVELOPMENT SUBMISSION II
3 2020.07.22 NPDES SUBMISSION II
2 2020.06.24 FINAL LAND DEVELOPMENT SUBMISSION
1 2020.06.19 NPDES SUBMISSION

HOOL

INNSYLVANIA

- Architects Engineers Surveyors

OLL FREE 877.323.6603

ELEMENTARY SCHO
UMBERLAND COUNTY, PENNS

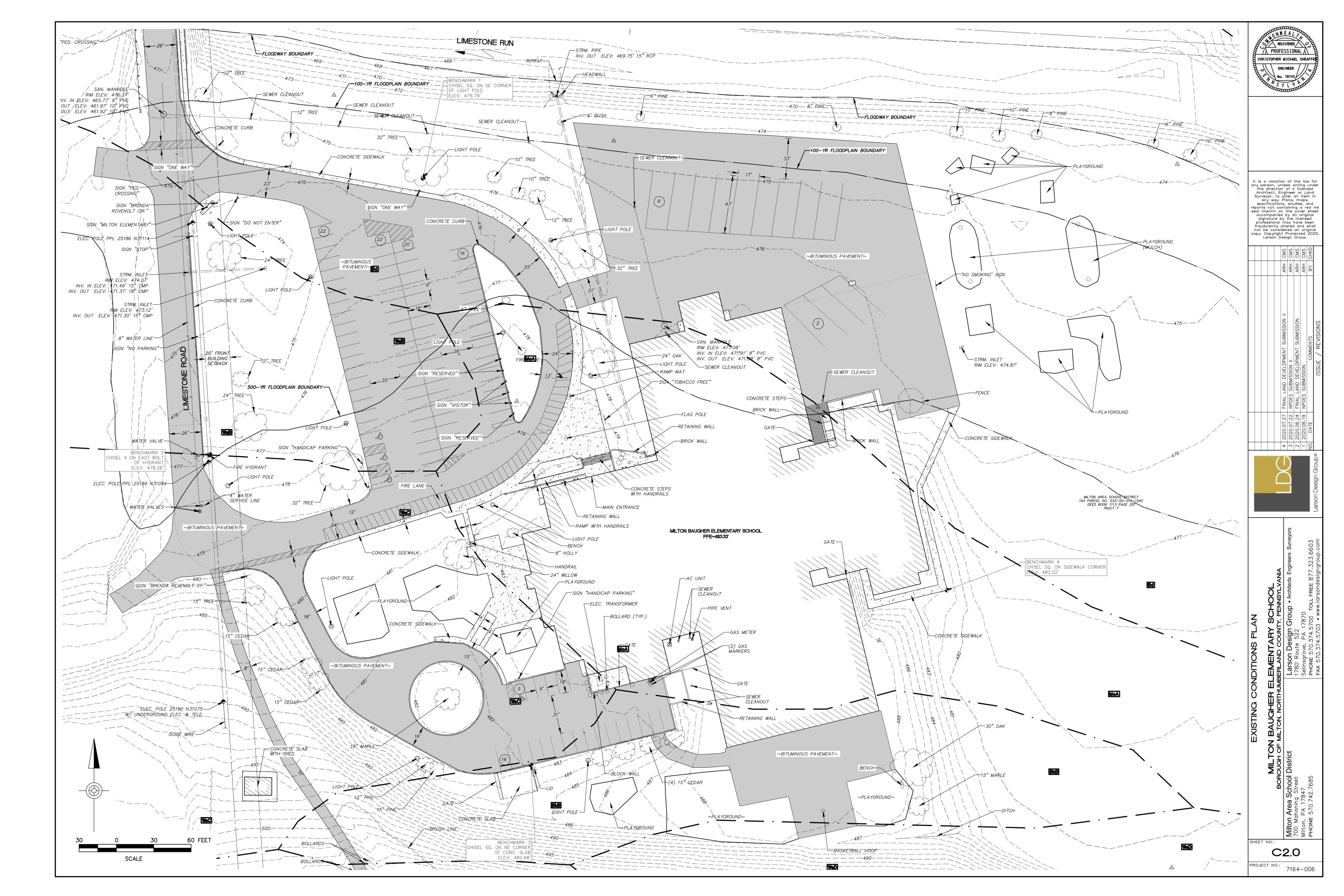
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GENERAL NOTES AND MILTON BAUGHER ELEMENT ROUGH OF MILTON, NORTHUMBERLAND

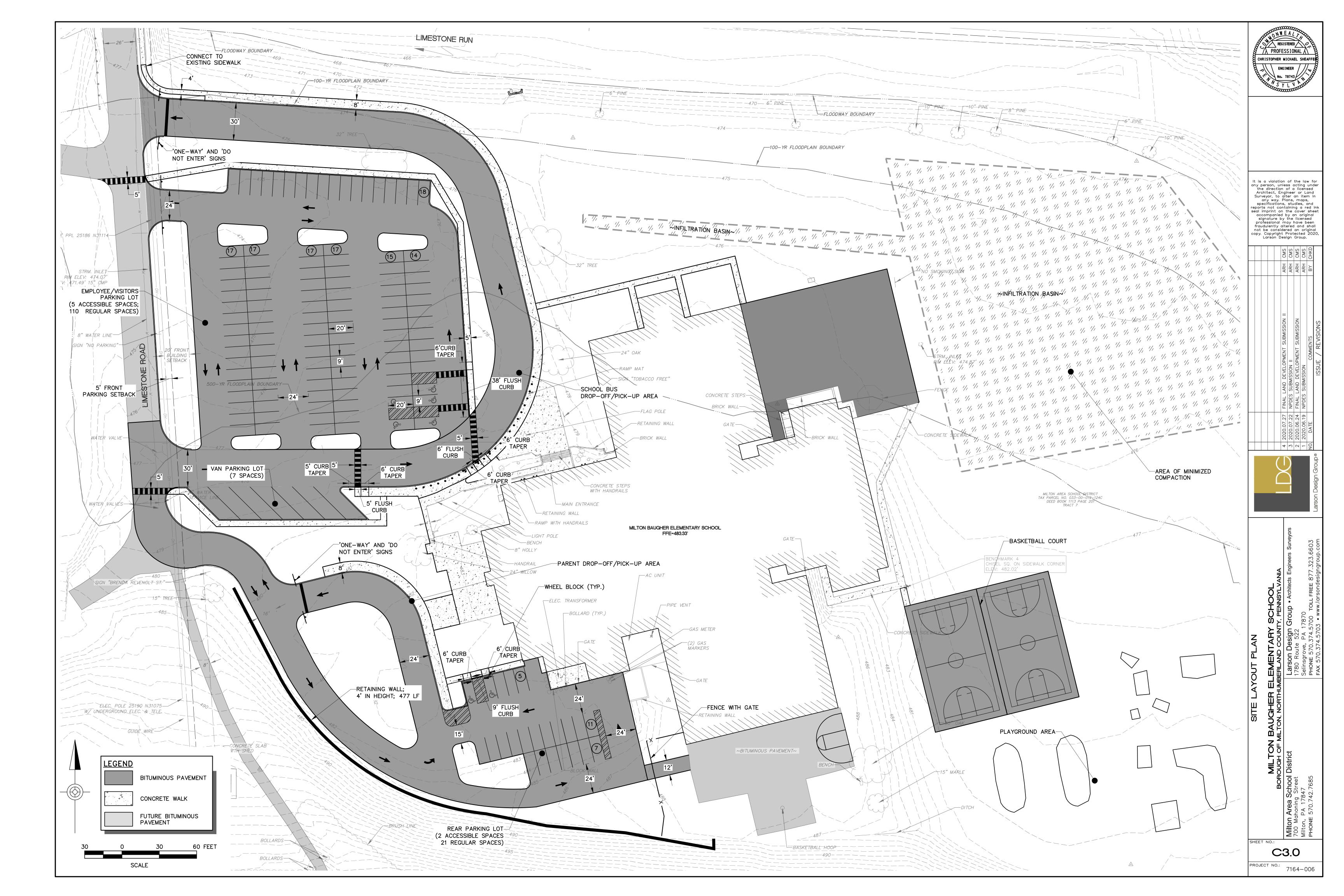
Milton Area School Di 700 Mahoning Street Milton, PA 17847

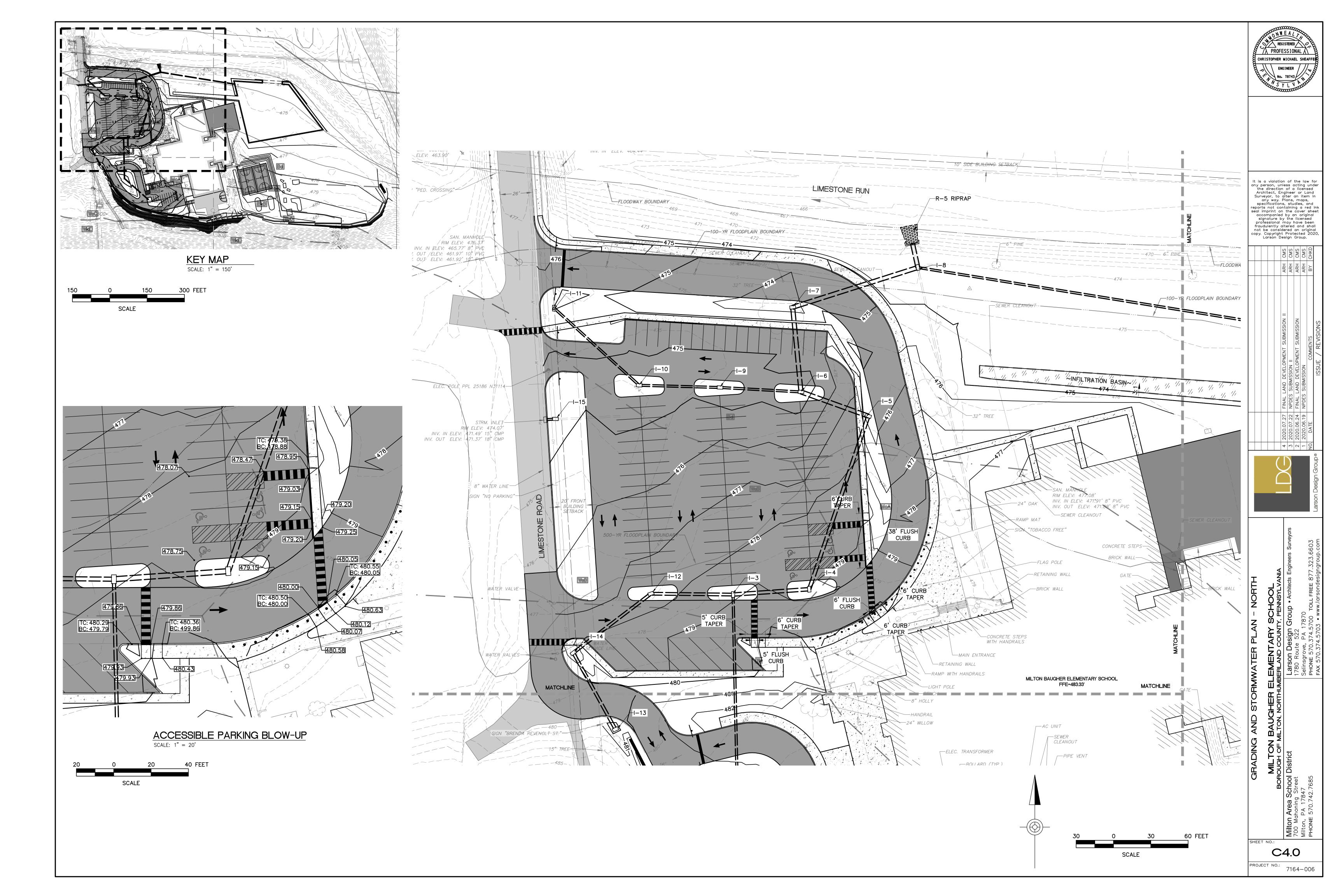
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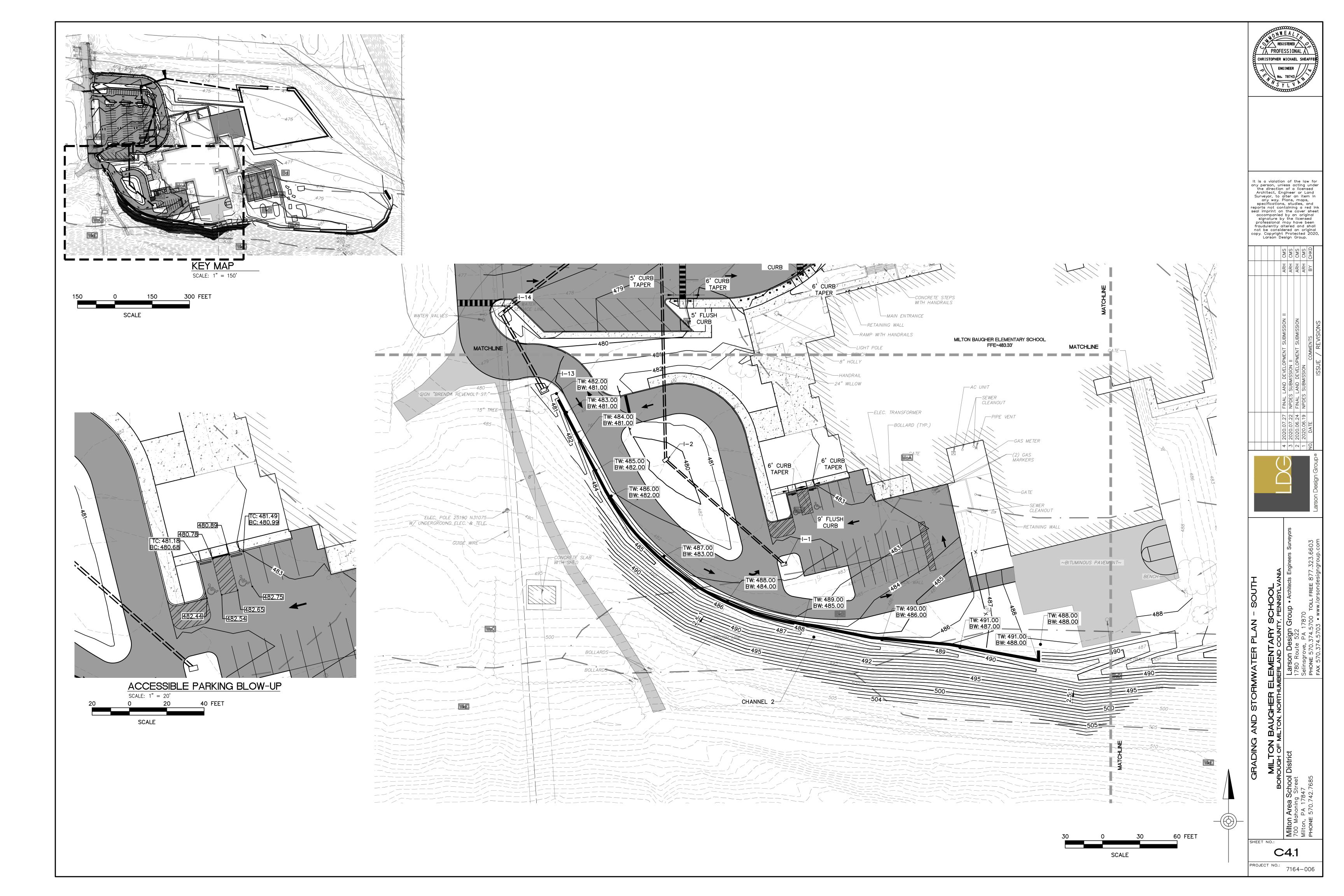
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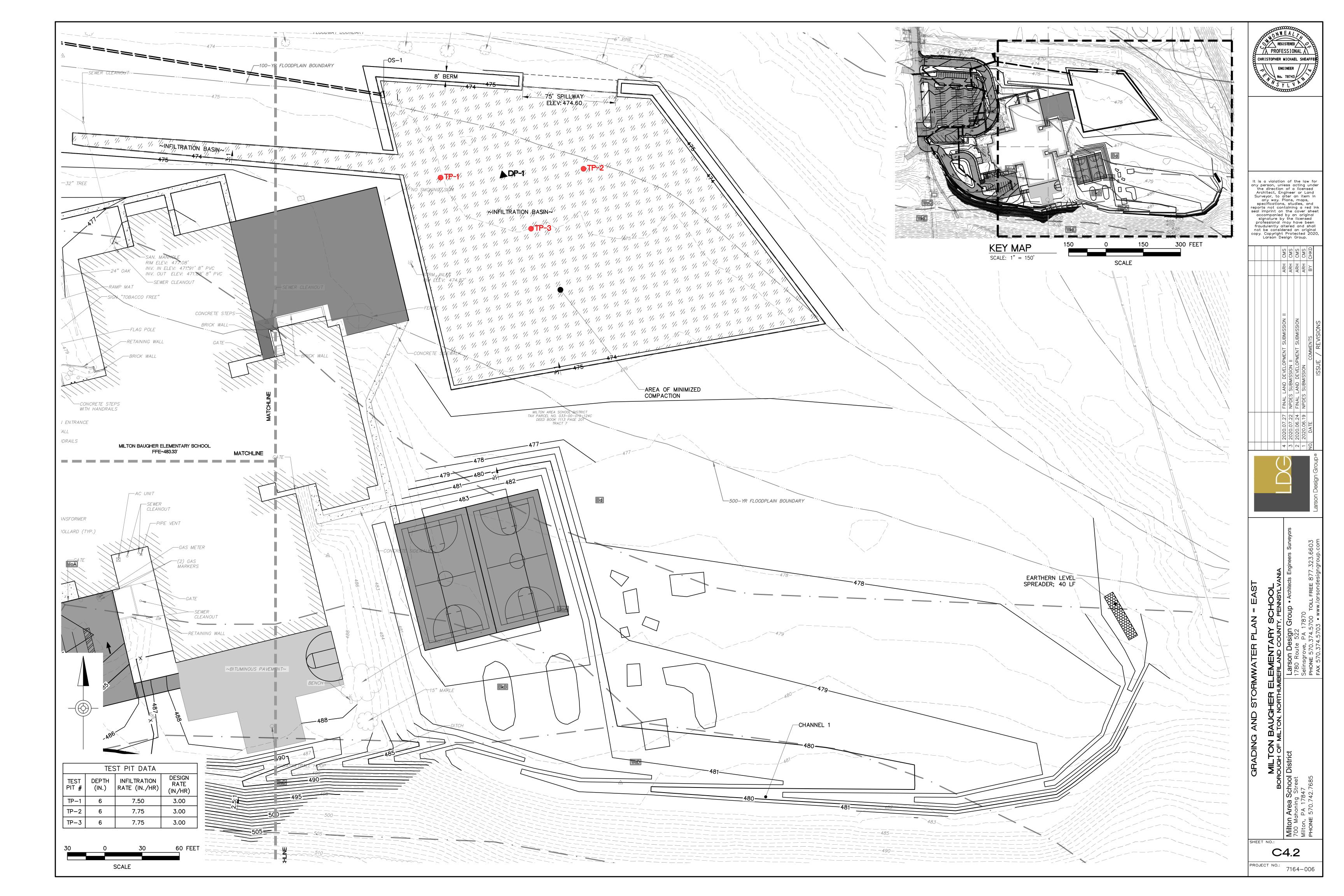


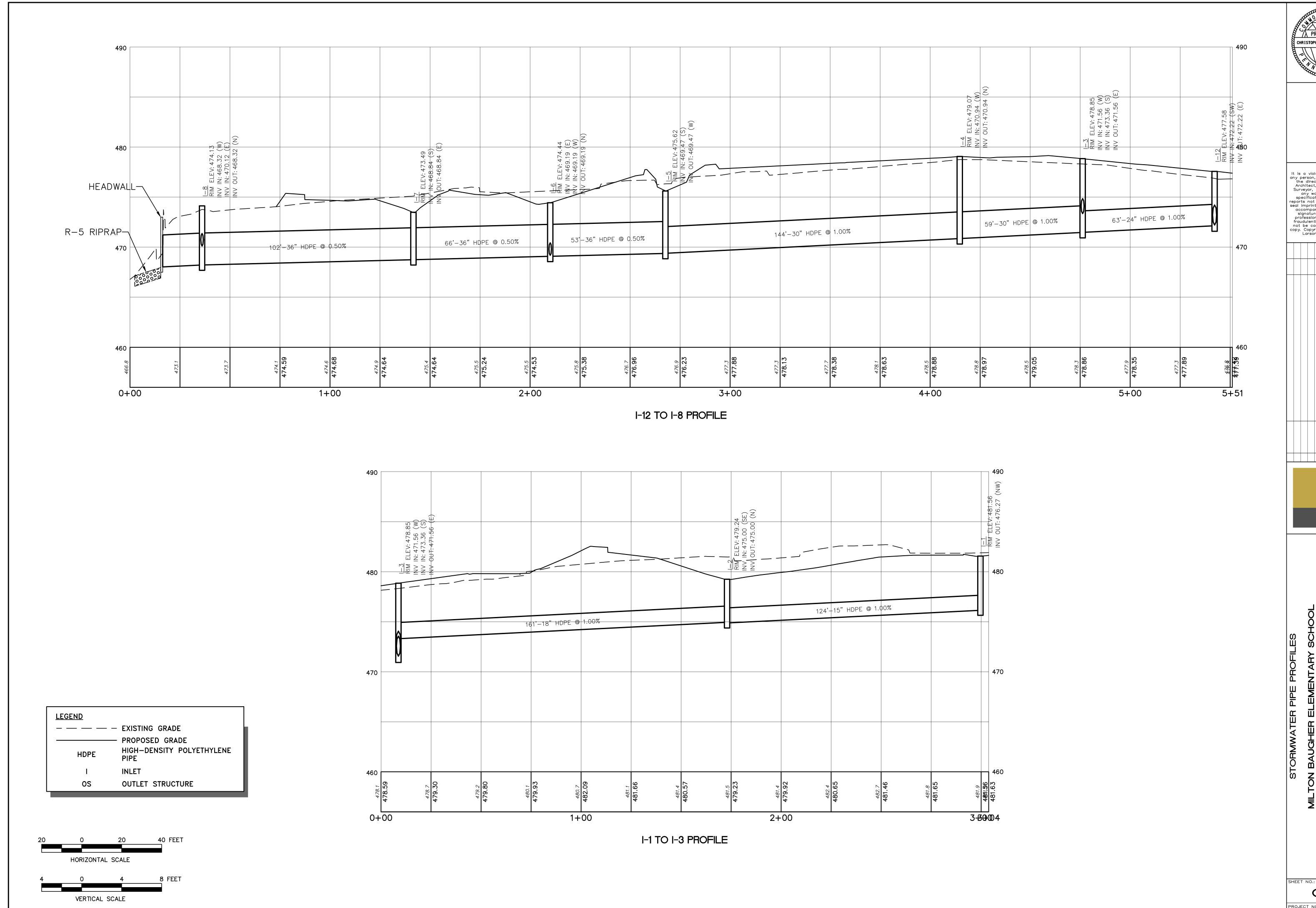












REGISTERED PROFESSIONAL CHRISTOPHER MICHAEL SHEAFFE

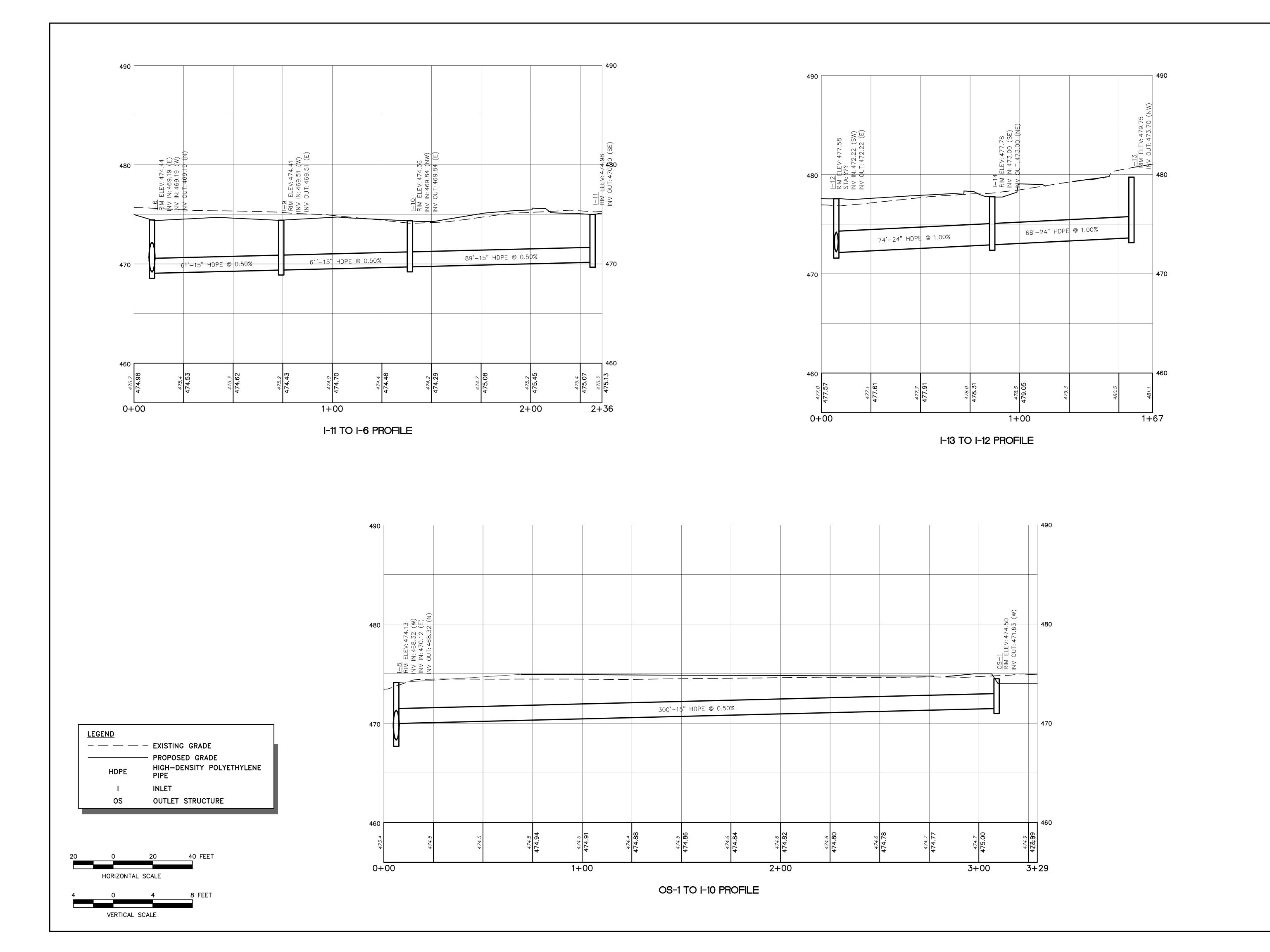
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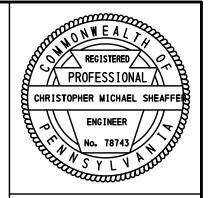
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		2020.07.27 FINAL LAND DEVELOPMENT SUBMISSION II	2020.07.22 NPDES SUBMISSION II	2020.06.24 FINAL LAND DEVELOPMENT SUBMISSION	2020.06.19 NPDES SUBMISSION	COMMENTS	
		2020.07.27	2020.07.22	2020.06.24	2020.06.19	DATE	
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FINAL LAND DEVELOPMENT SUBMISSION II	ARH	CMS
NPDES SUBMISSION II	ARH	CMS
FINAL LAND DEVELOPMENT SUBMISSION	ARH	CMS
NPDES SUBMISSION	ARH	CMS
COMMENTS	ВУ	ВУ СНКД
ISSUE / REVISIONS		

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			2020.07.27	2020.07.22	2020.06.24	2020.06.19	DATE	
			4	2	7	l	NO.	
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Isgrove, PA 17870

NE 570.374.5700 TOLL FREE 877.323.6603

JHMWATER FIRE FROFILES

AUGHER ELEMENTARY SCHOC

TON, NORTHUMBERLAND COUNTY, PENNSY

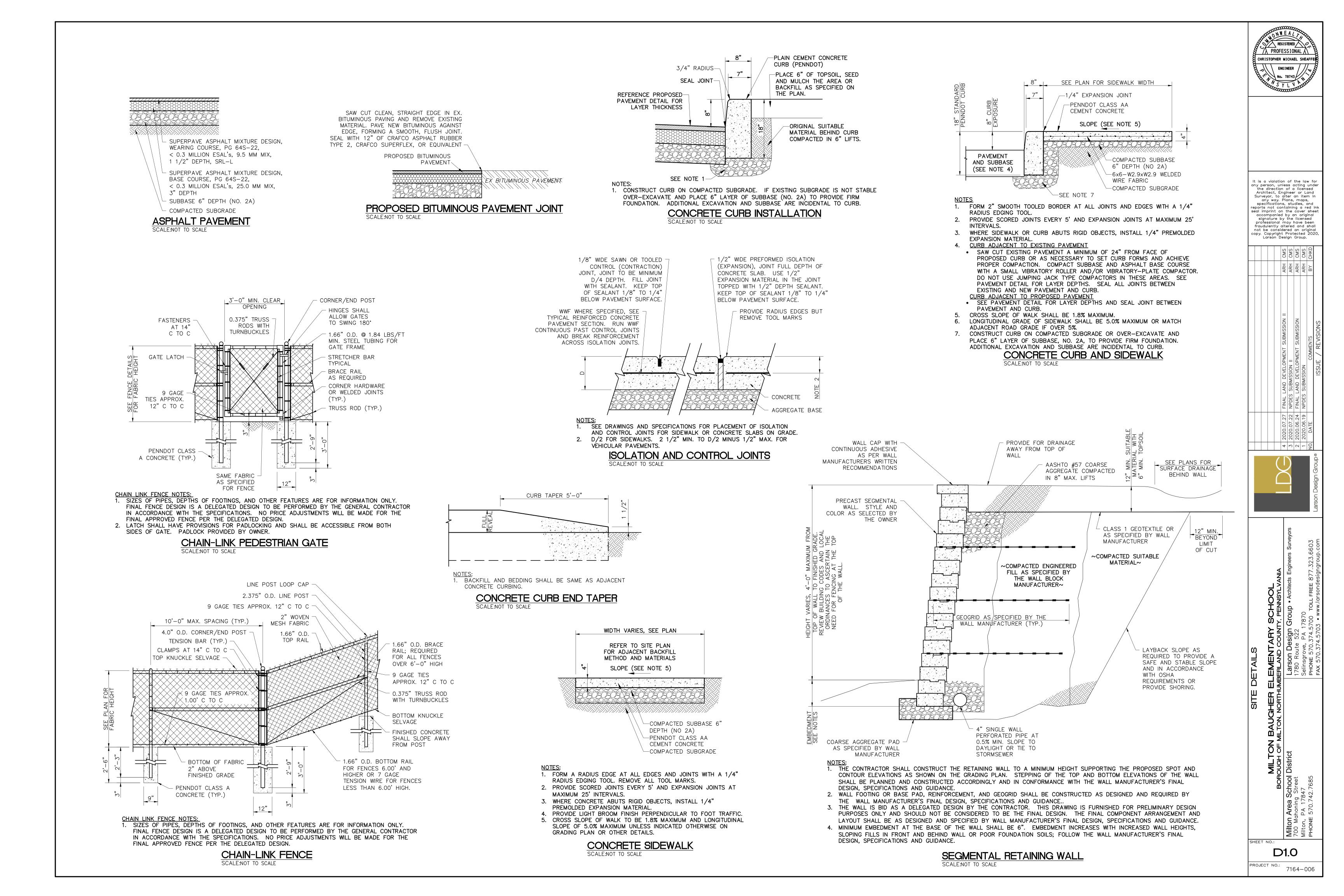
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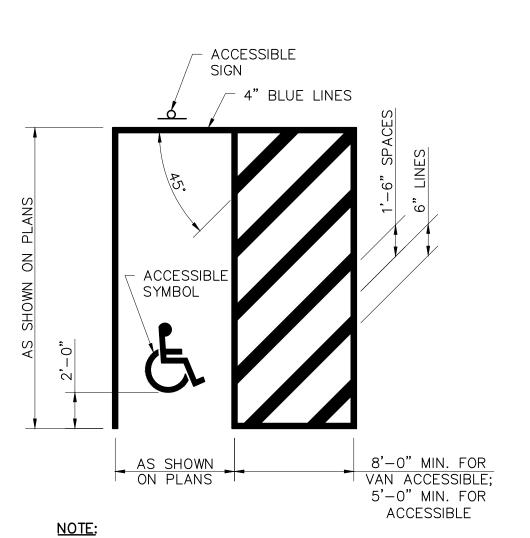
MILTON BAL BOROUGH OF MILTO Iilton Area School District 00 Mahoning Street ilton, PA 17847

SHEET NO.:

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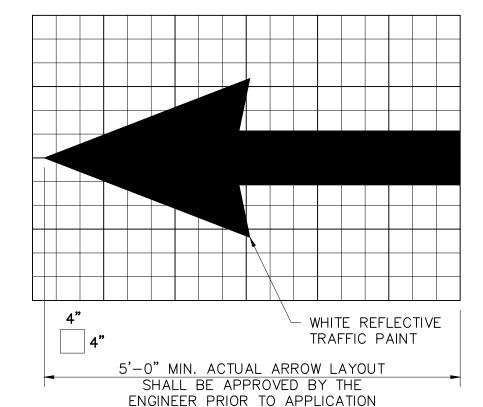
PROJECT NO.:
7164-006



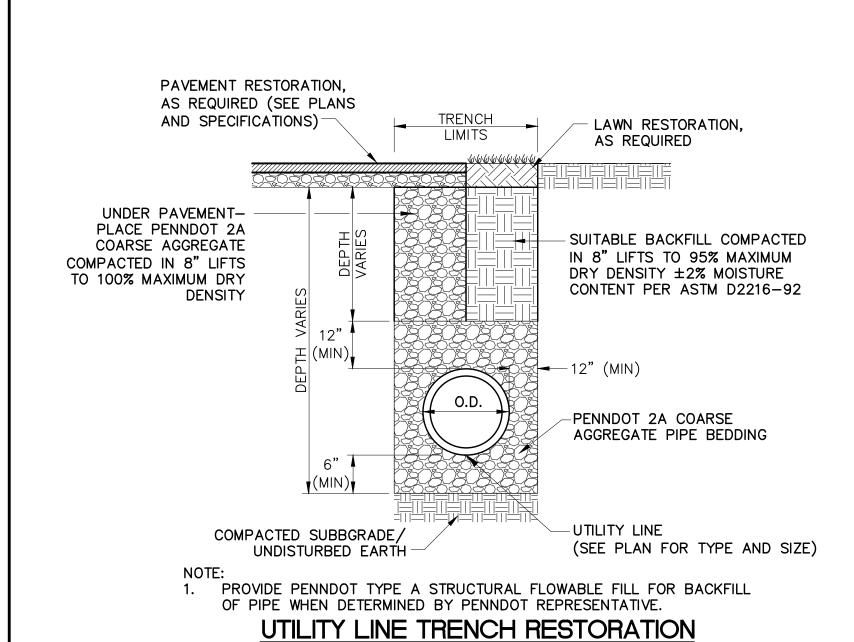


NOTE:

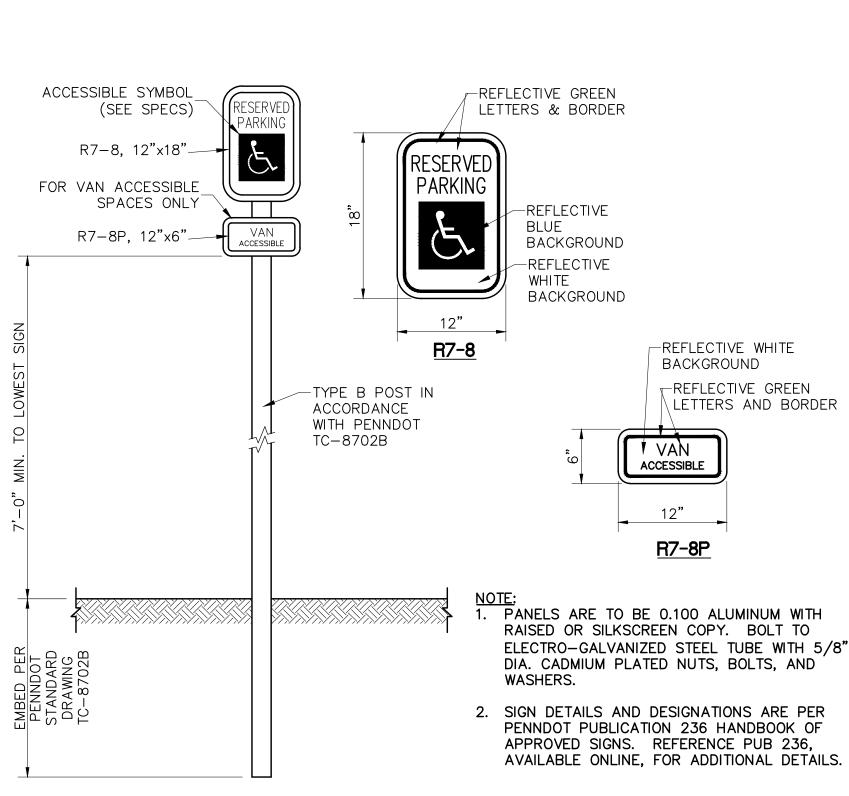
1. THE MAXIMUM SLOPE IN ANY DIRECTION CANNOT EXCEED 2.0%. ACCESSIBLE PARKING STALL SCALE:NOT TO SCALE



PAINTED TRAFFIC ARROW FOR PARKING LOTS SCALE:NOT TO SCALE



SCALE:NOT TO SCALE



EDGE OF ROAD

SCALE:NOT TO SCALE

MATERIAL WIDTH

SPACING 12" MIN.,

60" MAX. ADJUST LINE

PATHS WHERE POSSIBLE.

SPACES SHOULD NOT

EXCEED 2.5 TIMES THE LINE WIDTHS.

TYPE C - PERPENDICULAR CROSSWALK MARKINGS

WHITE, 12" MIN., 24" MAX.

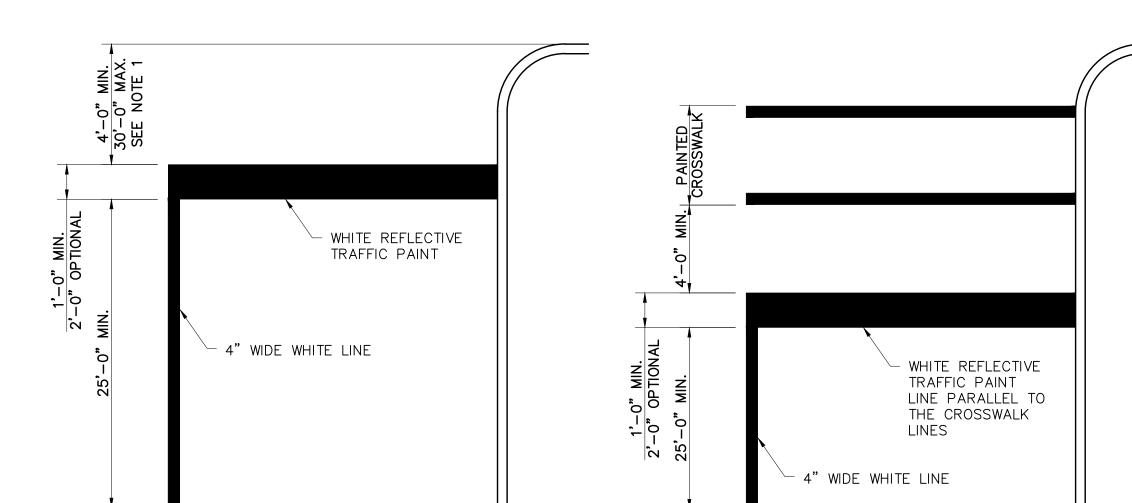
- WHITE PEDESTRIAN

24" MAX. (TYP.)

SPACING TO AVOID WHEEL - EDGE OF ROAD

CROSSWALK LINE, 6" MIN.

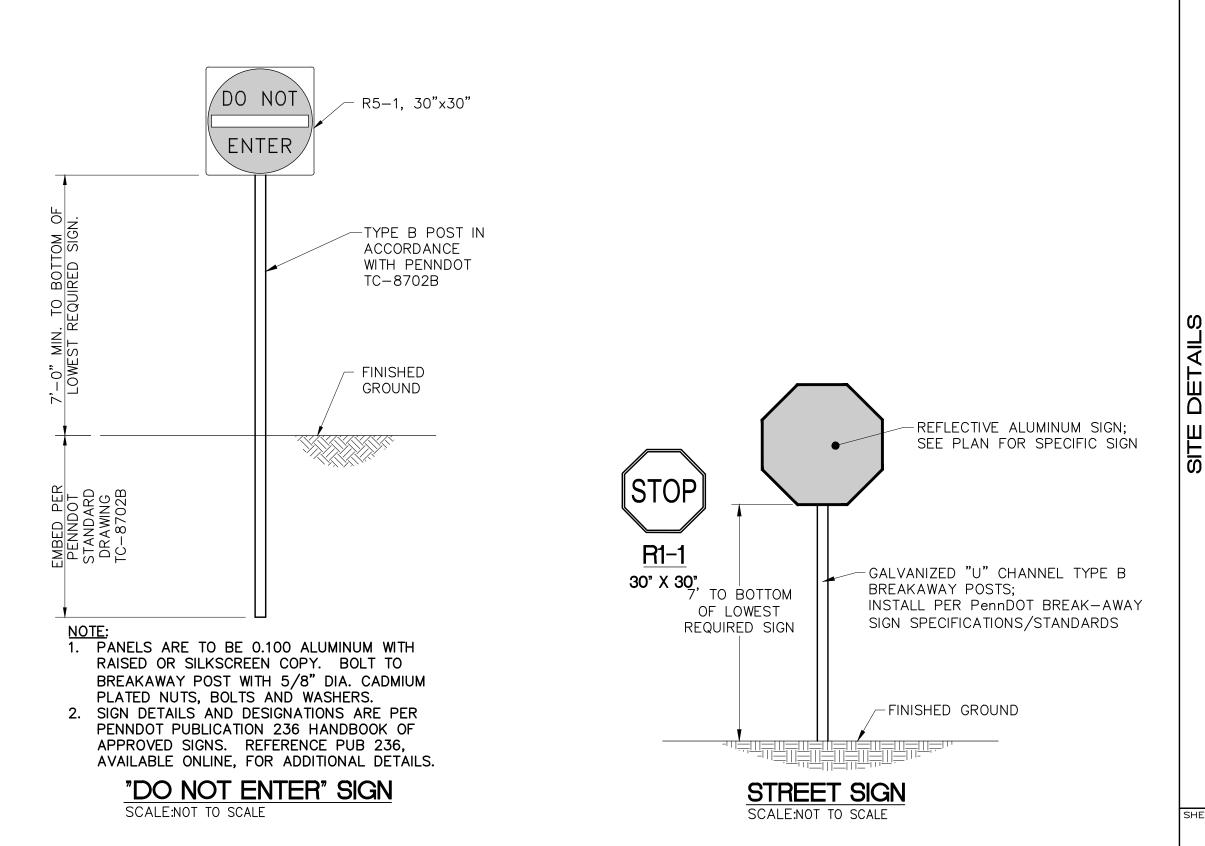
ACCESSIBLE SIGN ON TYPE B POST SCALE:NOT TO SCALE



NOTES:

1. STOP LINES SHALL BE SOLID WHITE LINES THAT COMPLETELY TRAVERSE EACH TRAFFIC LANE. AT INTERSECTIONS WITH A STOP SIGN THE STOP LINE SHALL BE PLACED 4'-0" MINIMUM OR 30' MAXIMUM FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY TO ENSURE MAXIMUM SIGHT DISTANCE TO VEHICLES ON THE CROSSING ROUTE. WHEN USED ON MULTILANE APPROACHES TO A SIGNALIZED INTERSECTION THE STOP LINE MAY BE STAGGERED FOR EACH LANE TO ASSIST TURNING VEHICLES AND TO IMPROVE SIGHT DISTANCE FOR A MOTORIST DESIRING TO MAKE A RIGHT TURN ON RED. 2. LOCATE STOP LINES A MINIMUM OF 4'-0" IN ADVANCE OF AND PARALLEL TO THE CROSSWALK LINES.

PAINTED STOP BAR
SCALE:NOT TO SCALE



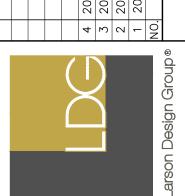
PROFESSIONAL A CHRISTOPHER MICHAEL SHEAF ENGINEER

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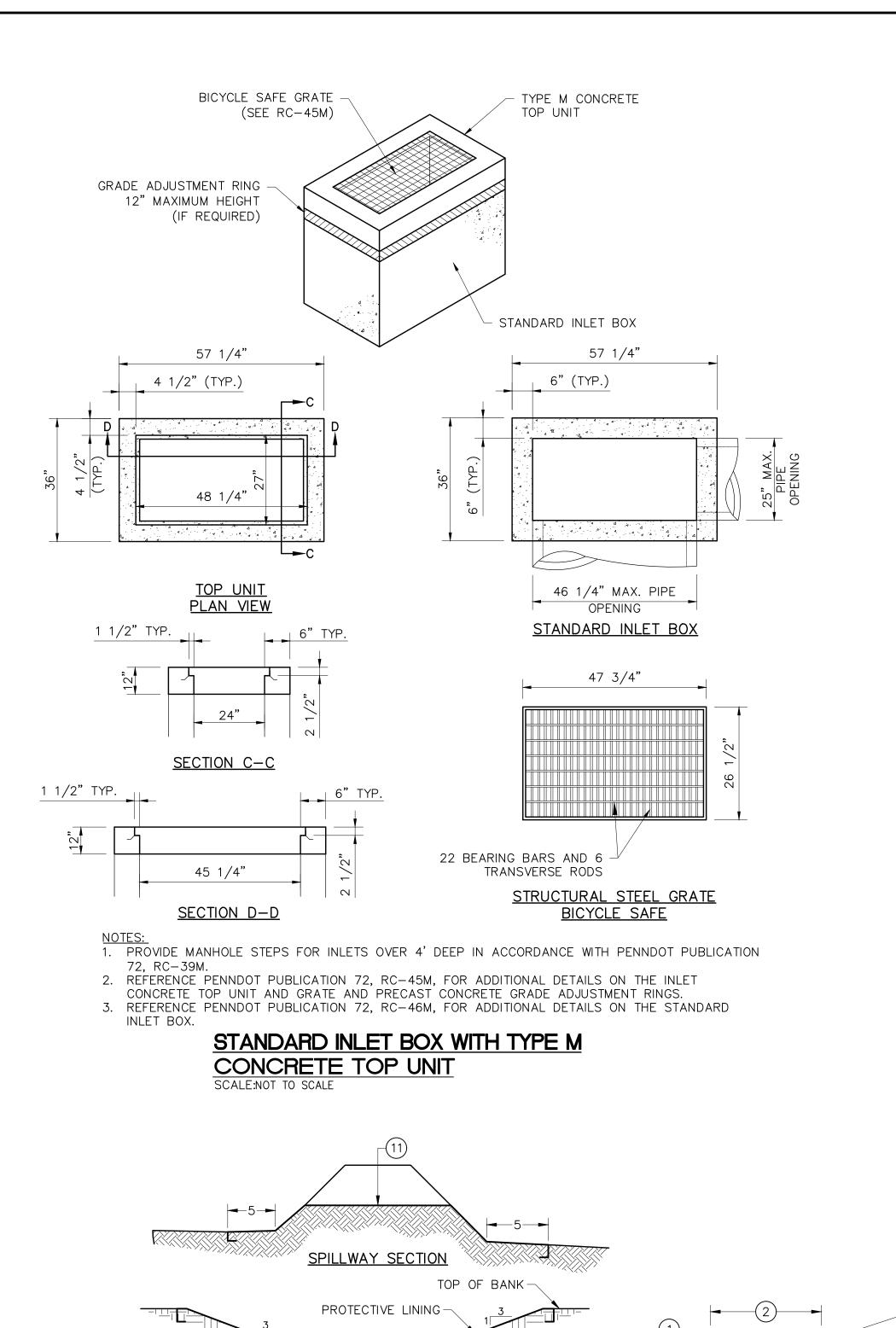
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D1.1 PROJECT NO.: 7164-006



SPILLWAY CROSS SECTION

KEY TRENCH-

12" (MIN) PennDOT #2A

COARSE AGGREGATE PER

PennDOT RC STANDARDS

OUTLET STRUCTURE, SEE

DETAIL FOR SPECIFICATIONS

INSTALL SLOTTED CAP

ON END OF PIPE-

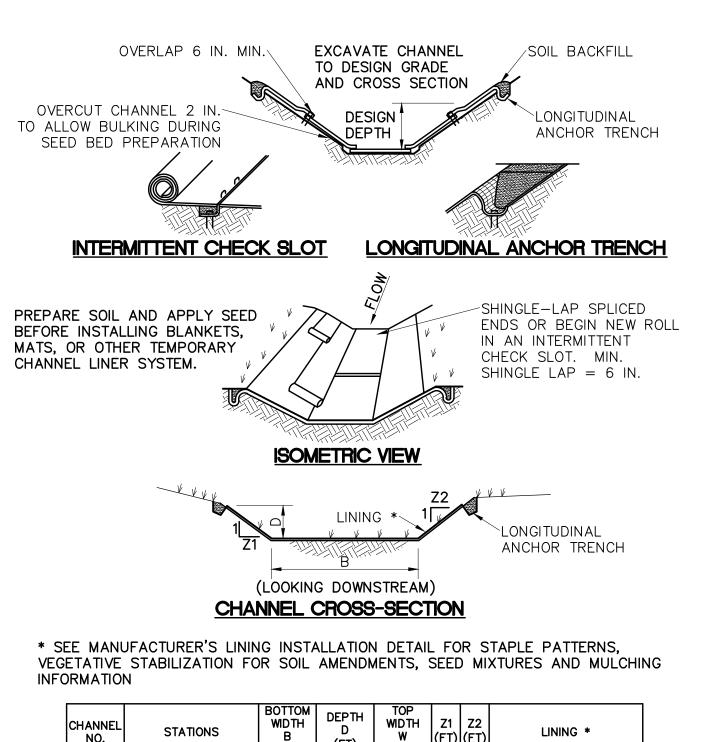
PennDOT CLASS

GEOTEXTILE -

AASHTO #57-

4" PERFORATED PVC STUB

WITH SCREW-IN CAP-

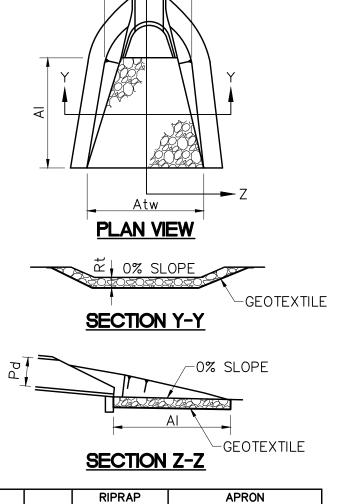


(FT) 15 3 2.5 STOUBN STAFLL PATTERN D OR EQUAL 13 2.5 3 PATTERN D OR EQUAL

ANCHOR TRENCHES SHALL BE INSTALLED AT BEGINNING AND END OF CHANNEL IN THE SAME MANNER AS LONGITUDINAL ANCHOR TRENCHES.

- 2. CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION. 3. SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF
- 4. NO MORE THAN ONE THIRD OF THE SHOOT (GRASS LEAF) SHALL BE REMOVED IN ANY MOWING. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED. EXCESS VEGETATION SHALL BE REMOVED FROM PERMANENT CHANNELS TO ENSURE SUFFICIENT CHANNEL CAPACITY.

VEGETATED CHANNEL SCALE:NOT TO SCALE



		- -		<u>Z-Z</u>	_	EXTILE	
		RIP	RAP	APRON			
OUTLET NO.	PIPE DIA Pd (IN)	SIZE R	THICK. Rt (IN)	LENGTH AI (FT)	INITIAL WIDTH Aiw (FT)	TERMINA L WIDTH Atw (FT)	
EW-1	36	5	27	14	9	14.6	

NOTES:

1. ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS. 2. ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIP-RAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.

> RIPRAP APRON AT PIPE OUTLET WITH FLARED END SECTION OR ENDWALL SCALE:NOT TO SCALE

> > BASIN SUMMARY

BASIN 1

475.00

474.60

75

474.00

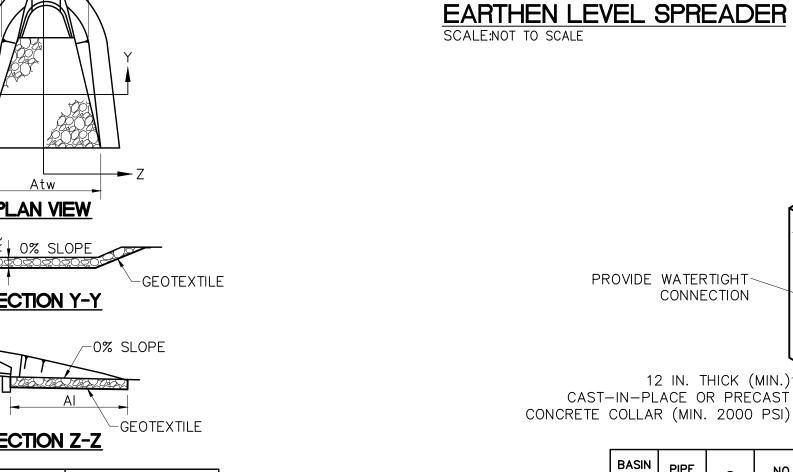
3

SEE PROFILE

SEE PROFILE

15" HDPE

NAG S75BN OR EQUAL



EROSION CONTROL

BLANKET STAPLED

IN PLACE

NOTES:

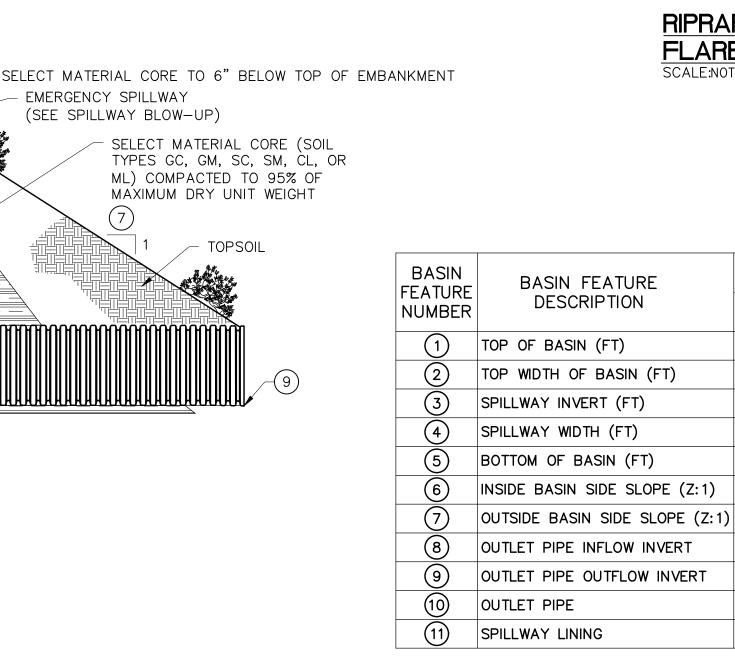
1. ALL COLLARS SHALL BE INSTALLED SO AS TO BE WATERTIGHT. 2. COLLAR SIZE AND SPACING SHALL BE AS INDICATED WITHIN TABLE.

TO COLLAR FIRST SPACING

COLLARS COLLAR

CONCRETE ANTI-SEEP COLLAR

SCALE:NOT TO SCALE



-(10)

CONCRETE ANTI-SEEP

COLLAR; SEE DETAIL

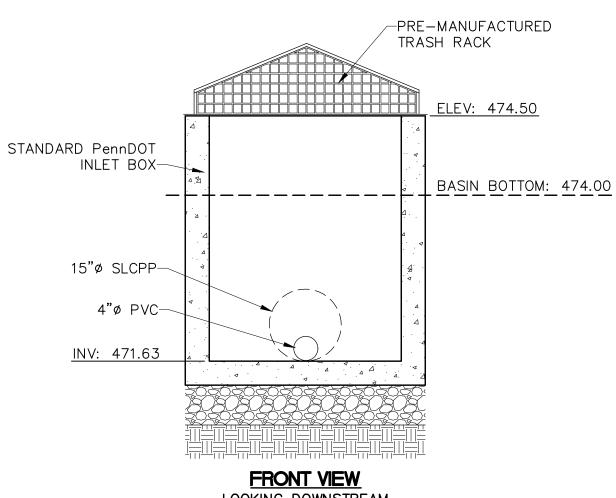
4' DEPTH (MIN) BELOW

PERVIOUS MATERIAL

BASIN CROSS SECTION

DETENTION/INFILTRATION BASIN

SCALE:NOT TO SCALE



LOOKING DOWNSTREAM OUTLET STRUCTURE (OS-1) SCALE: NOT TO SCALE

/\ PROFESSIONAL \ CHRISTOPHER MICHAEL SHEA ENG I NEER

EXISTING GRADE

TRANSITION TO

0.00% GRADE

VARIABLE

3 FT. MIN.

0.00% GRADE

PLAN VIEW

ISOMETRIC VIEW

MAX. GRADE OF 1.00%

FOR A TRANSITION OF

20 FT. MIN.

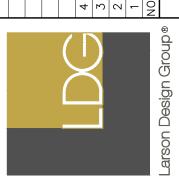
DIVERSION DIKE

VEGETATED-

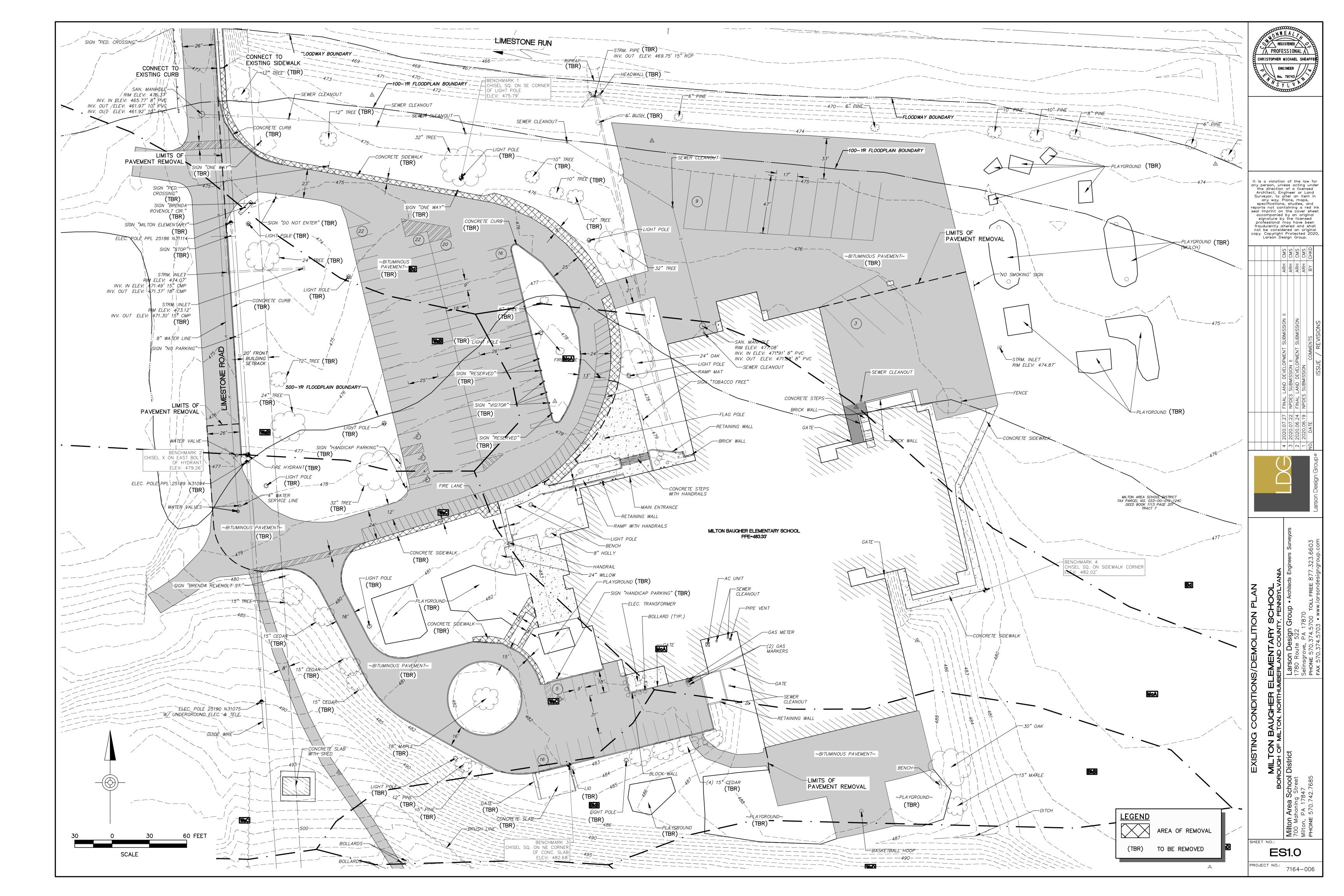
DIVERSION

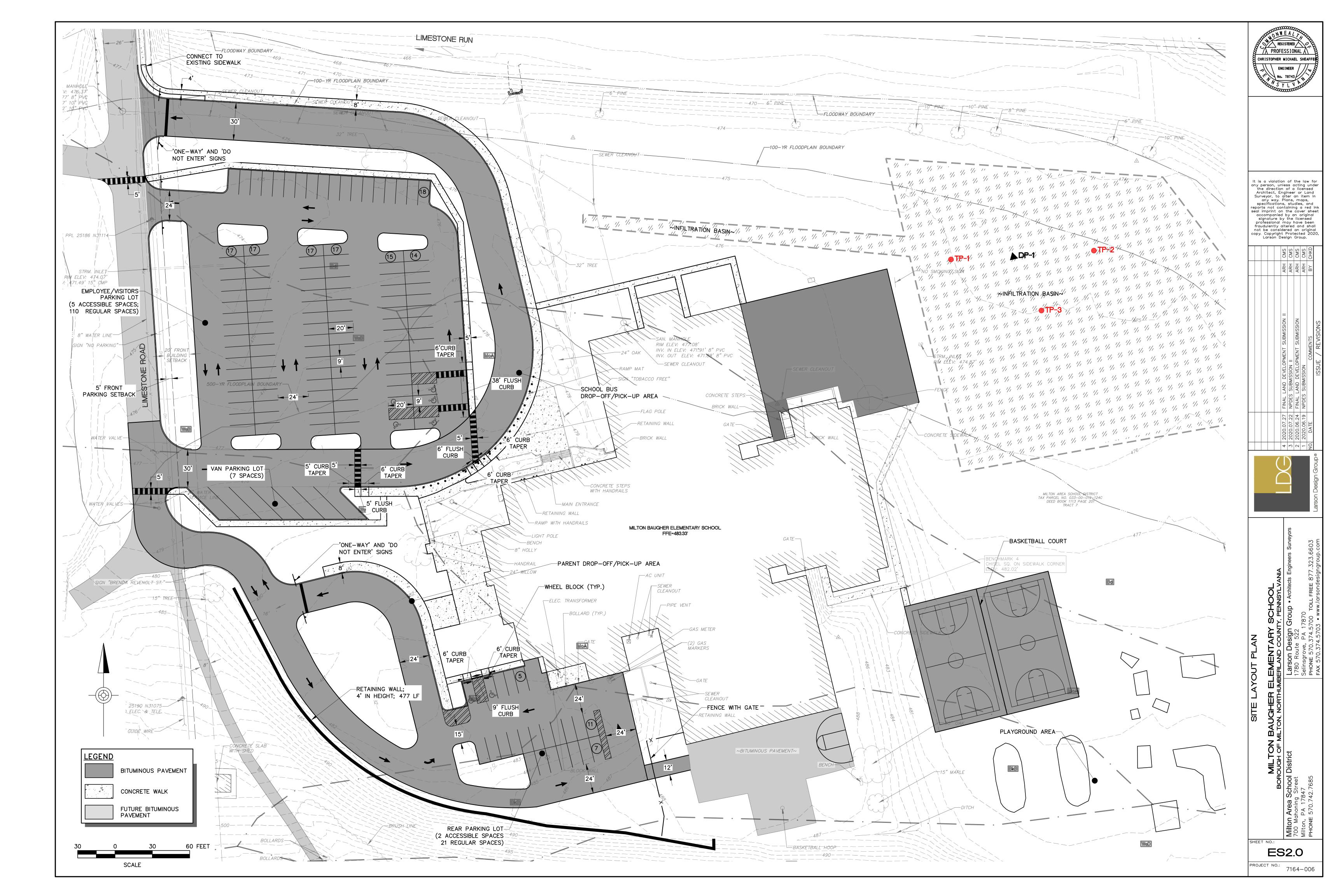
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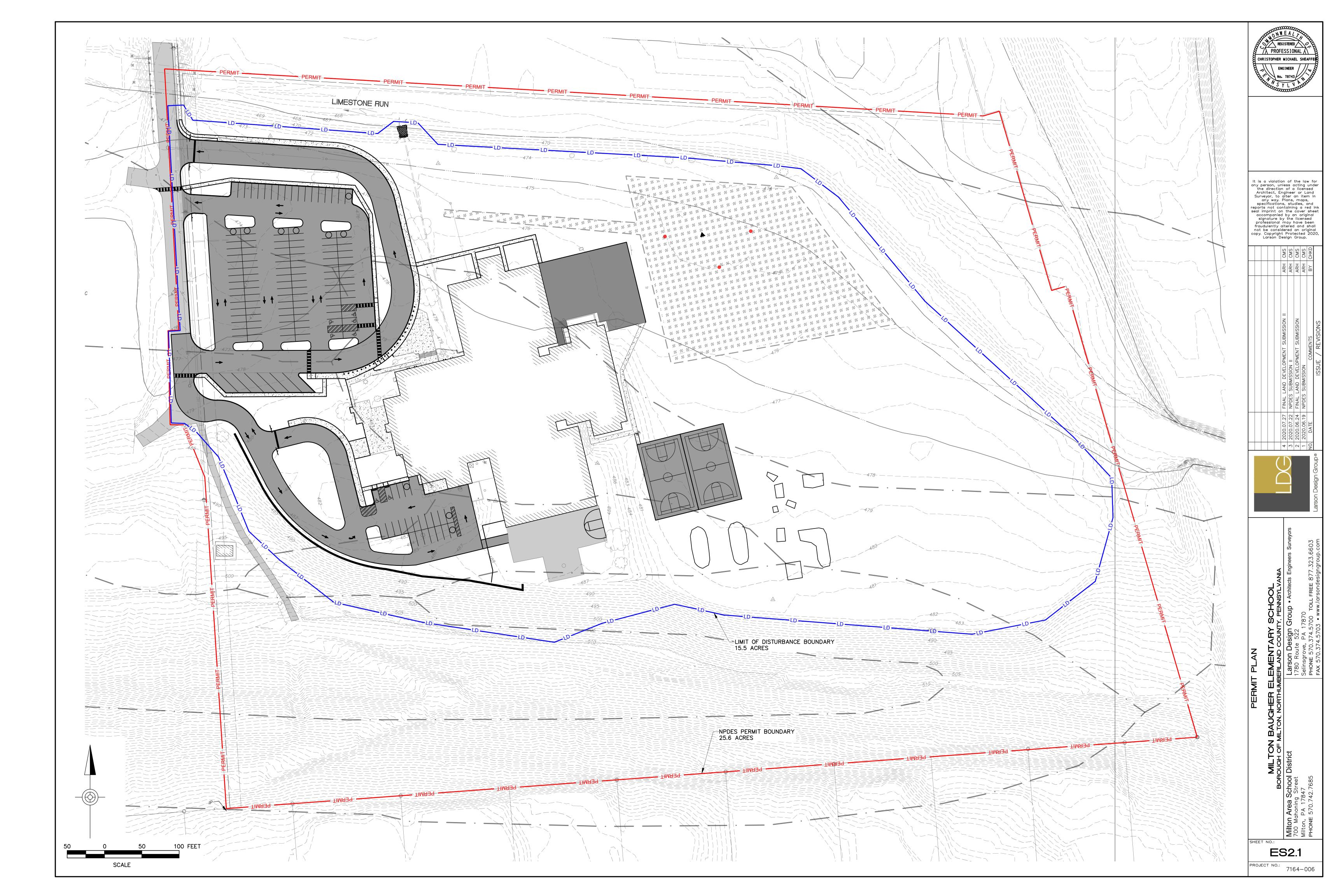
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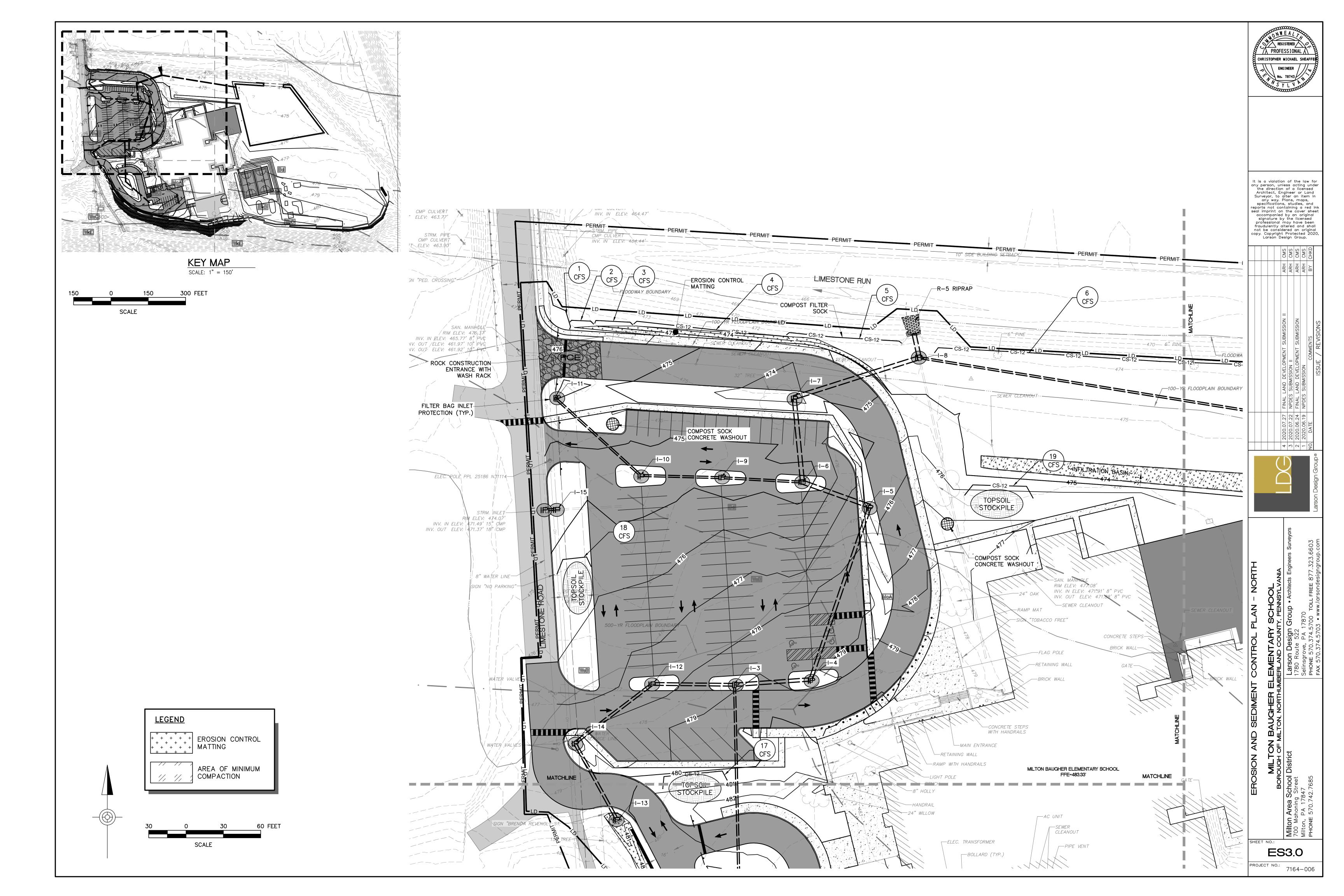


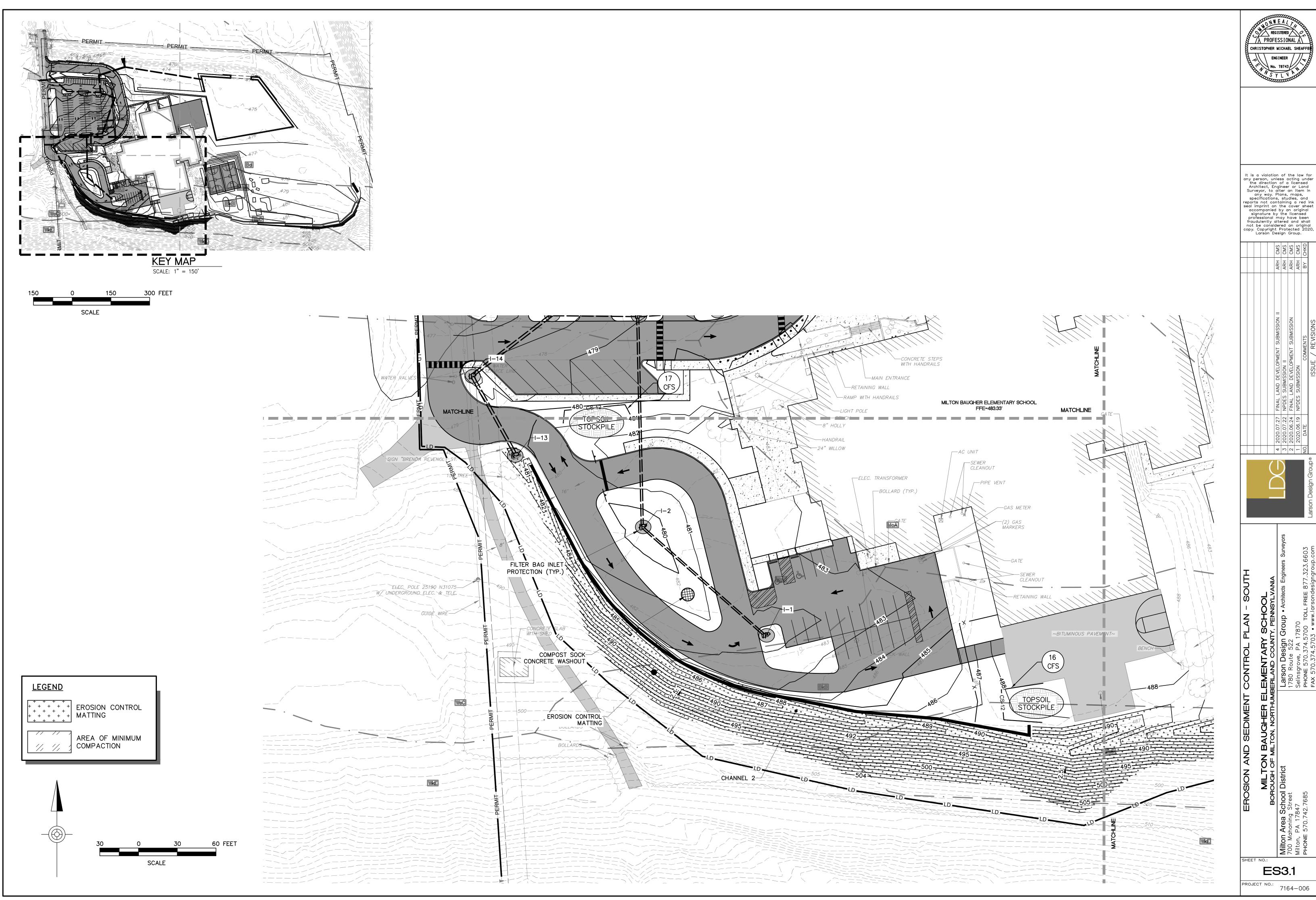
D1.2

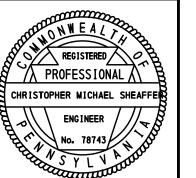






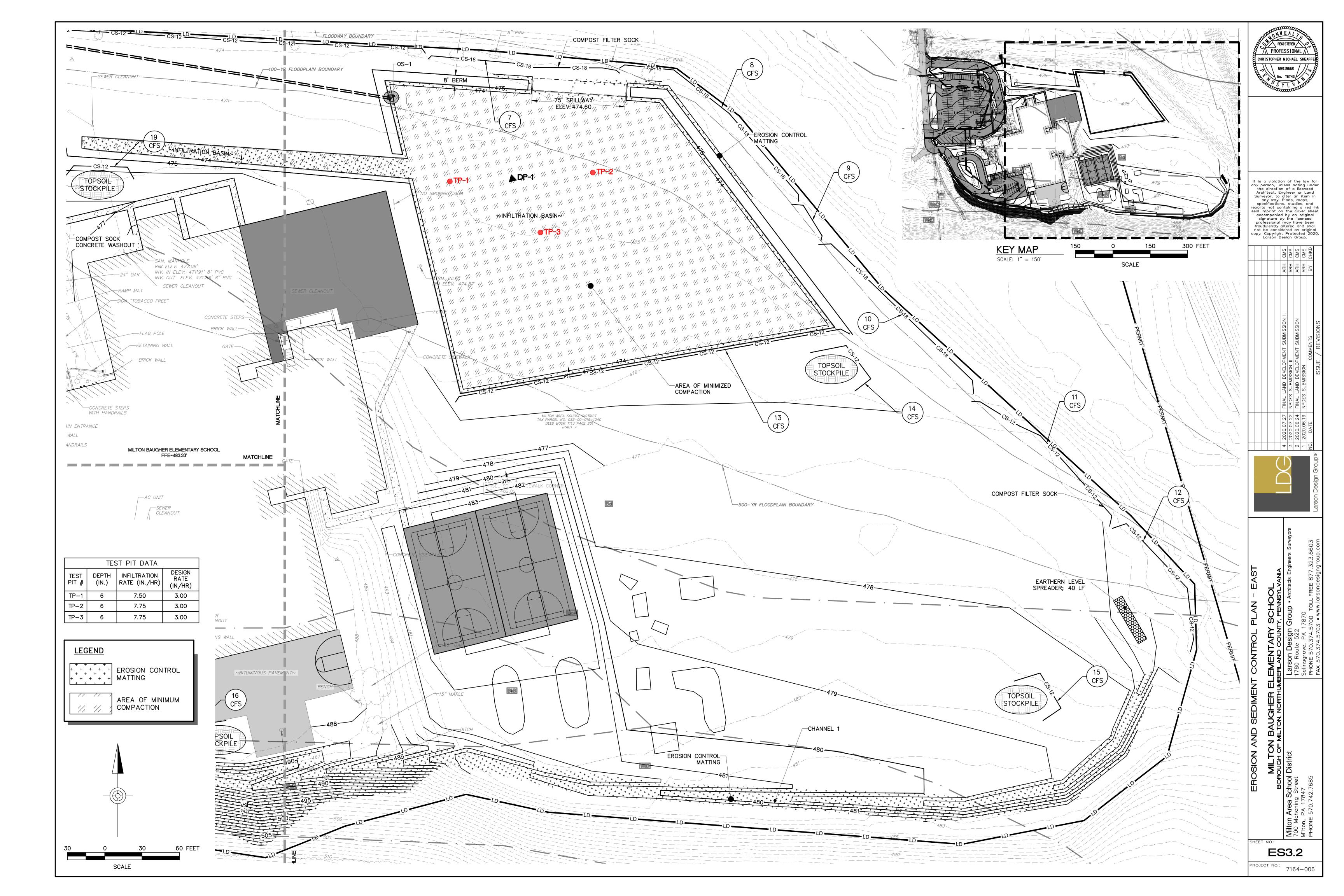


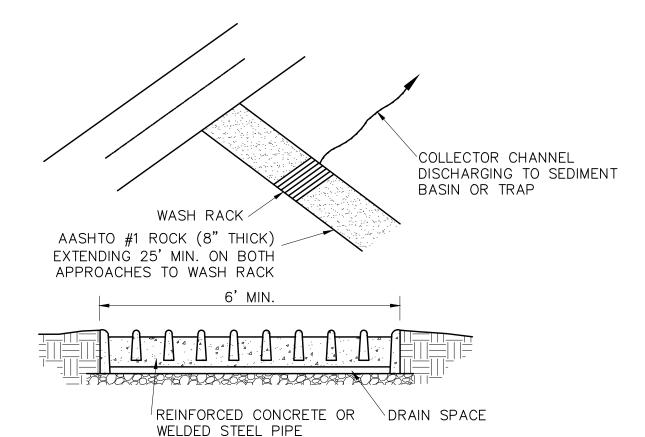




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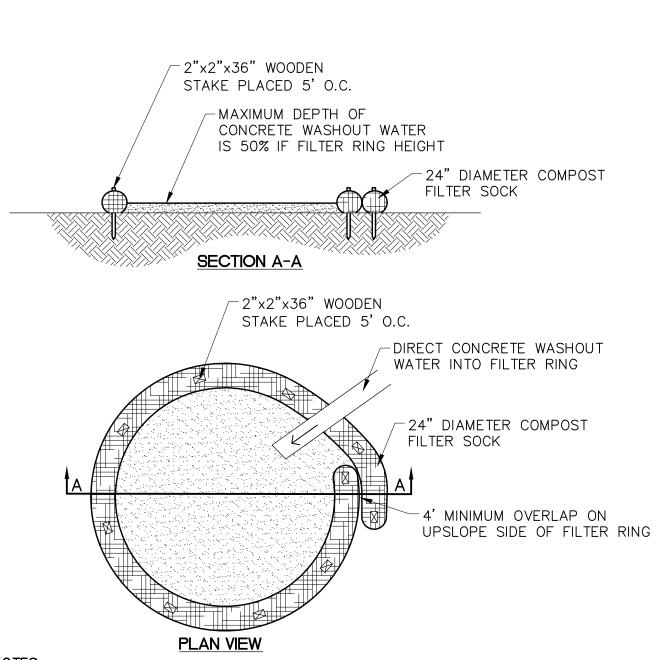
		4	3	2	1	NO.	
		X					Larson Design Group®





- 1. WASH RACK SHALL BE 20 FEET (MIN.) WIDE OR TOTAL WIDTH OF ACCESS. 2. WASH RACK SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE ANTICIPATED
- CONSTRUCTION VEHICULAR TRAFFIC. 3. A WATER SUPPLY SHALL BE MADE AVAILABLE TO WASH THE WHEELS OF ALL VEHICLES EXITING THE SITE.
- 4. MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. DRAIN SPACE UNDER WASH RACK SHALL BE KEPT OPEN AT ALL TIMES. DAMAGE TO THE WASH RACK SHALL BE REPAIRED PRIOR TO FURTHER USE OF THE RACK. ALL SEDIMENT DEPOSITED ON ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

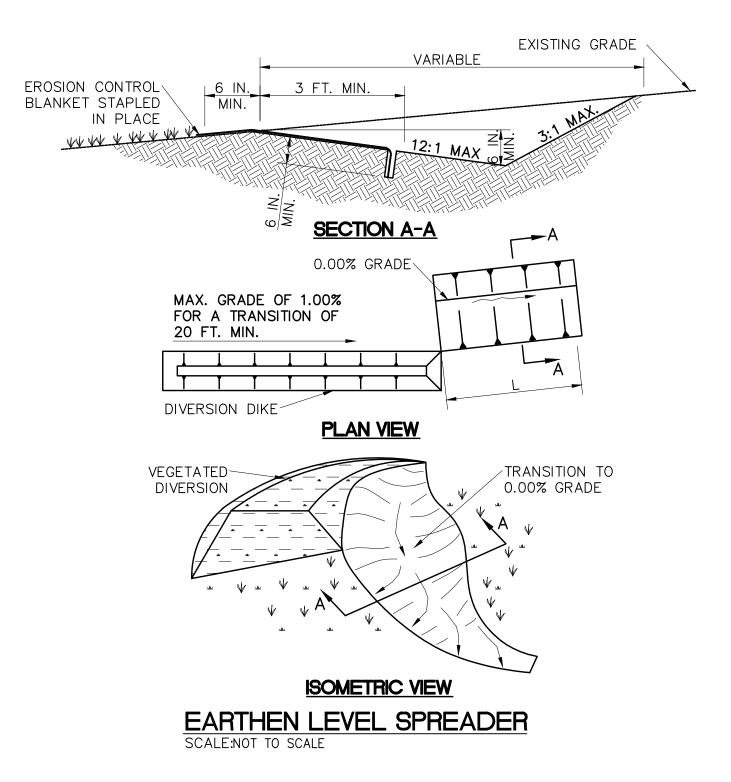
ROCK CONSTRUCTION ACCESS WITH WASH RACK SCALE:NOT TO SCALE

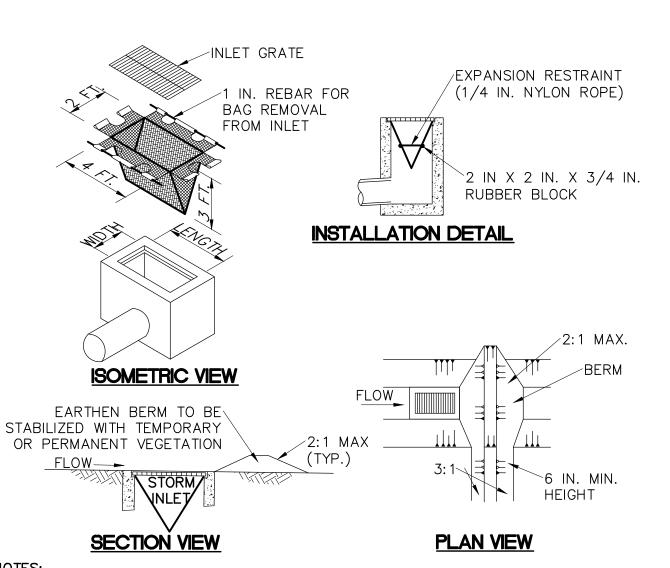


INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.

- 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
- 3. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS

COMPOST SOCK CONCRETE WASHOUT SCALE:NOT TO SCALE

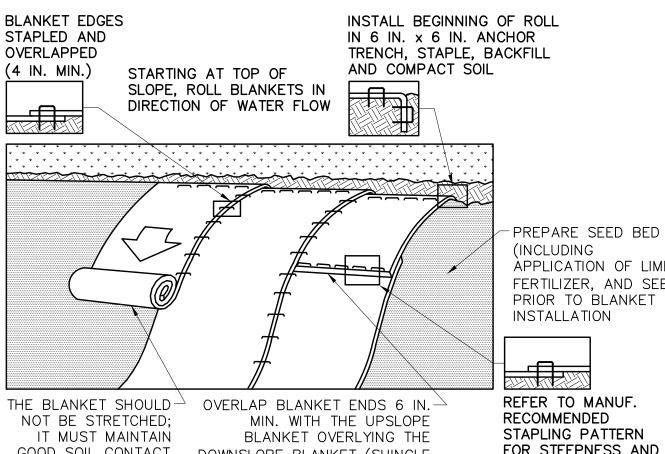




MAXIMUM DRAINAGE AREA = 1/2 ACRE.

- 2. INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT
- BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS. ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY 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
- 6. DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC

FILTER BAG INLET PROTECTION - TYPE M INLET SCALE:NOT TO SCALE



GOOD SOIL CONTACT DOWNSLOPE BLANKET (SHINGLE

STYLE). STAPLE SECURELY.

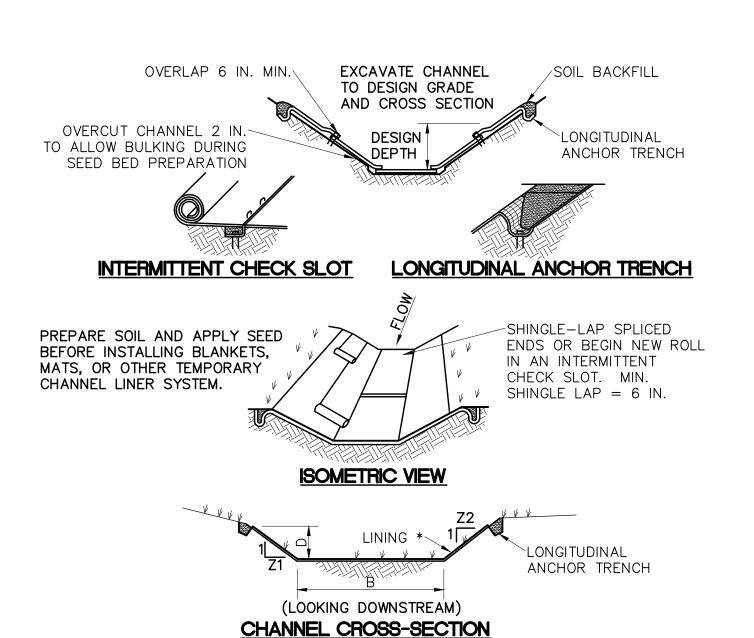
(INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED) PRIOR TO BLANKET INSTALLATION

REFER TO MANUF. RECOMMENDED STAPLING PATTERN FOR STEEPNESS AND LENGTH OF SLOPE BEING BLANKETED

1. SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.

- 2. PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF
- 3. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS. 4. BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.
- 5. THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 6. BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN FOUR CALENDAR DAYS.

EROSION CONTROL BLANKET INSTALLATION SCALE:NOT TO SCALE

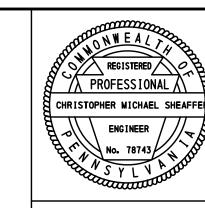


* SEE MANUFACTURER'S LINING INSTALLATION DETAIL FOR STAPLE PATTERNS, VEGETATIVE STABILIZATION FOR SOIL AMENDMENTS, SEED MIXTURES AND MULCHING INFORMATION

CHANNEL NO.	STATIONS	BOTTOM WIDTH B (FT)	DEPTH D (FT)	TOP WIDTH W (FT)	Z1 (FT)	Z2 (FT)	LINING *
1	-	4	2	15	3	2.5	S150BN STAPLE PATTERN D OR EQUAL
2	_	2	2	13	2.5	3	S150BN STAPLE PATTERN D OR EQUAL

- 1. ANCHOR TRENCHES SHALL BE INSTALLED AT BEGINNING AND END OF CHANNEL IN THE SAME MANNER AS LONGITUDINAL ANCHOR TRENCHES.
- 2. CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION. 3. SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF
- 4. NO MORE THAN ONE THIRD OF THE SHOOT (GRASS LEAF) SHALL BE REMOVED IN ANY MOWING. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED. EXCESS VEGETATION SHALL BE REMOVED FROM PERMANENT CHANNELS TO ENSURE SUFFICIENT CHANNEL CAPACITY.

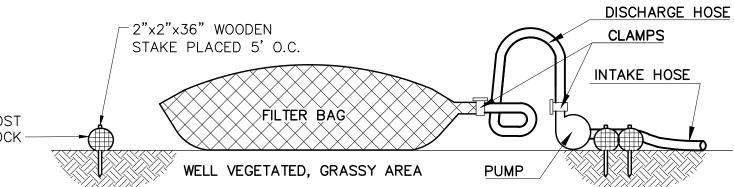
VEGETATED CHANNEL SCALE:NOT TO SCALE



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ES4.0

24" DIAMETER COMPOST FILTER SOCK



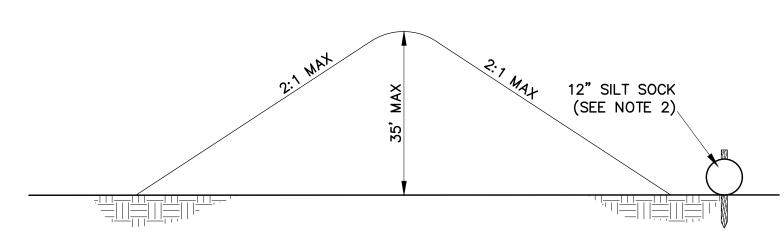
ELEVATION VIEW

- 1. 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.
- 2. 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.
- 3. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. 4. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTIN MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.
- 5. NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHOULD BE INSTALLED BELOW BAGS LOCATED WITH 50 FEET OF RECEIVING STREAM OR WHERE GRASSY AREA IS NOT AVAILABLE. A COMPOST BERM OR COMPOST FILTER SOCK SHALL BE PLACED BELOW ANY BAG DISCHARGING TO A SPECIAL PROTECTION SURFACE WATER.
- 6. 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.
- 7. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHOULD BE FLOATED AND SCREENED.

- 1. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROVIDED.
- 2. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR
- 3. IT IS RECOMMENDED THAT BAG BE PLACED ON STRAPS TO FACILITATE REMOVAL.

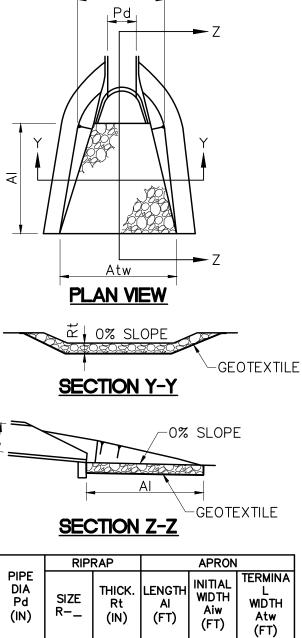
 4. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

PUMPED WATER FILTER BAG SCALE:NOT TO SCALE



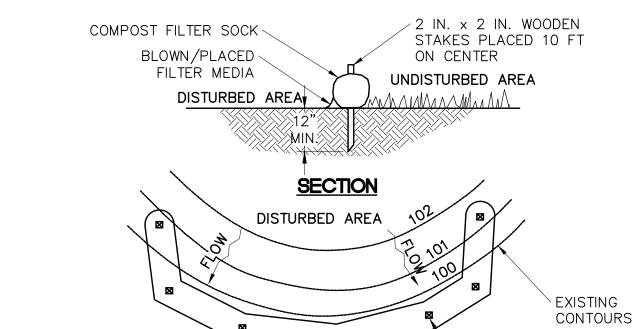
- 1. STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST
- 2. SILT SOCK SHALL BE INSTALLED AT THE DOWNSLOPE SIDE OF THE MATERIAL
- 3. MATERIAL STOCKPILES SHALL BE TEMPORARILY STABILIZED WITH SEED AND
- 4. MATERIAL STOCKPILE LOCATIONS SHALL BE PROVIDED WHERE INDICATED ON THE PLAN, OR ALTERNATE LOCATION APPROVED BY OWNER.

TOPSOIL STOCKPILE SCALE:NOT TO SCALE



NOTES: 1. ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS. 2. ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIP—RAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.

RIPRAP APRON AT PIPE OUTLET WITH FLARED END SECTION OR ENDWALL SCALE:NOT TO SCALE



PLAN VIEW

UNDISTURBED AREA

COMPOST FILTER SOCK

- 1. SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.
- 2. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS
- TRIBUTARY AREA. 3. TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS. 4. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE
- MANNER DESCRIBED ELSEWHERE IN THE PLAN. 5. COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF
- INSPECTION. 6. BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S
- RECOMMENDATIONS. 7. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

TABLE 4.1 COMPACT SOOK ENDRIC MINIMUM SPECIFICATIONS

`2 IN. x 2 IN. WOODEN

ON CENTER

STAKES PLACED 10 FT

	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		I .	PHOTO— DEGRADABLE							
SOCK DIAMETERS	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"							
MESH OPENING	3/8"	3/8"	3/8"	3/8"	1/8"							
TENSILE STRENGTH	·	26 PSI	26 PSI	44 PSI	202 PSI							
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155)	TRAVIOLET TABILITY % ORIGINAL STRENGTH 23% AT 1000 HR.			100% AT 1000 HR.	100% AT 1000 HR.							
MINIMUM FUNCTIONAL LONGEVITY	6 MONTHS	9 MONTHS	6 MONTHS	1 YEAR	2 YEARS							
		TWO-PL	Y SYSTEMS									
				HDPE BIAXIAL NET								
INNER CO	NTAINMENT N	ETTING	EII	CONTINUOUSLY WOUND FUSION—WELDED JUNCTURES								

1110 121 010121110					
INNER CONTAINMENT NETTING	HDPE BIAXIAL NET				
	CONTINUOUSLY WOUND				
	FUSION-WELDED JUNCTURES				
	3/4"X3/4" MAX. APERTURE SIZE				
	COMPOSITE POLYPROPYLENE FABRIC				
OUTER FILTRATION MESH	(WOVEN LAYER AND NON-WOVEN FLEECE				
	MECHANICALLY FUSED VIA NEEDLE PUNCH)				
	3/16" MAX. APERTURE SIZE				

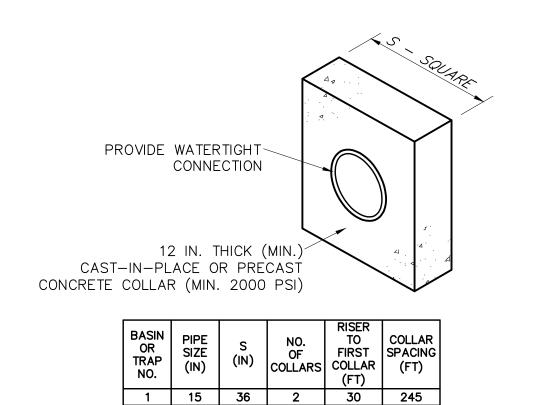
3/16 MAX. APERIURE SIZE SOCK FABRICS COMPOSED OF BURLAP MAY BE USED ON PROJECTS LASTING 6 MONTHS OR LESS.

TABLE 4.2 COMPOST STANDARDS

COMPOST STANDARDS						
ORGANIC MATTER CONTENT	25-100% (DRY WEIGHT BASE)					
ORGANIC PORTION	FIBROUS AND ELONGATED					
рН	5.5-8.5					
MOISTURE CONTENT	30-60%					
PARTICLE SIZE	30-50% PASS THROUGH 3/8" SIEVE					
SOLUBLE SALT CONCENTRATION	5.0 dS/m (MMHOS/CM) MAXIMUM					

COMPOST FILTER SOCK

SCALE:NOT TO SCALE



NOTES:

1. ALL COLLARS SHALL BE INSTALLED SO AS TO BE WATERTIGHT.

2. COLLAR SIZE AND SPACING SHALL BE AS INDICATED WITHIN TABLE.

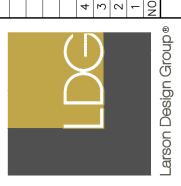
CONCRETE ANTI-SEEP COLLAR

SCALE:NOT TO SCALE

/\ PROFESSIONAL \ CHRISTOPHER MICHAEL SHEAF **ENGINEER**

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ES4.1

STANDARD EROSION AND SEDIMENTATION CONTROL PLAN NOTES

- 1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- 2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS. THE E&S PLAN PREPARER. THE PCSM PLAN PREPARER. THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
- 3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- 4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
- 5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
- 6. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS
- 7. 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 REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
- 9. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
- 10. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- 11. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- 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. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
- 14. VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM LOTS THE PROJECT SITE ONTO LIMESTONE ROAD. VEHICLES AND EQUIPMENT MAY ONLY ENTER AND EXIT THE CONSTRUCTION SITE VIA A STABILIZED ROCK CONSTRUCTION ENTRANCE.
- 15. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
- 16. A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
- 17. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR
- 18. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
- 19. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES, 6 TO 12 INCHES ON COMPACTED SOILS, PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
- 20. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- 21. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- 22. 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.
- 23. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- 24. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- 25. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- 26. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
- 27. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
- 28. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
- 29. 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.
- 30. 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.
- 31. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
- 32. 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.
- 33. FAILURE TO CORRECTLY INSTALL E&S BMPS. FAILURE TO PREVENT SEDIMENT—LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES. UP TO \$10,000 IN SUMMARY

STANDARD EROSION AND SEDIMENTATION CONTROL PLAN NOTES

- CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.
- 34. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
- 35. ALL CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION, AND CONSTRUCTION MATERIAL/WASTES.
- 36. UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING. ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN THE MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE.
- 37. CHANNELS HAVING RIPRAP, RENO MATTRESS, OR GABION LININGS MUST BE SUFFICIENTLY OVER-EXCAVATED SO THAT THE DESIGN DIMENSIONS WILL BE PROVIDED AFTER PLACEMENT OF THE PROTECTIVE LINING.
- 38. SEDIMENT BASINS AND/OR TRAPS SHALL BE KEPT FREE OF ALL CONSTRUCTION WASTE. WASH WATER. AND OTHER DEBRIS HAVING POTENTIAL TO CLOG THE BASIN/TRAP OUTLET STRUCTURES AND/OR POLLUTE THE SURFACE WATERS.
- 39. SEDIMENT BASINS SHALL BE PROTECTED FROM UNAUTHORIZED ACTS BY THIRD PARTIES
- 40. ANY DAMAGE THAT OCCURS IN WHOLE OR IN PART AS A RESULT OF BASIN OR TRAP DISCHARGE SHALL BE IMMEDIATELY REPAIRED BY THE PERMITTEE IN A PERMANENT MANNER SATISFACTORY TO THE MUNICIPALITY, LOCAL CONSERVATION DISTRICT, AND THE OWNER OF THE DAMAGED PROPERTY.
- 41. UPON REQUEST, THE APPLICANT OR HIS CONTRACTOR SHALL PROVIDE AN AS-BUILT (RECORD DRAWING) FOR ANY SEDIMENT BASIN OR TRAP TO THE MUNICIPAL INSPECTOR, LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT
- 42. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL
- 43. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN MAXIMUM EIGHT (8) LAYERED LIFTS AT NINETY FIVE PERCENT (95%) MODIFIED PROCTOR DENSITY.
- 44. ACCORDING TO THE SOILS SURVEY OF NORTHUMBERLAND COUNTY, PA. THE SOIL ON SITE IS COMPOSED OF THE FOLLOWING SOILS:
 - ❖ Bd BASHER SOILS, FREQUENTLY FLOODED
 - ❖ BkB BERKS CHANNERY SILT LOAM 3 TO 8 PERCENT SLOPES
 - ❖ MoA MONONGAHELOA SILT LOAM 0 TO 3 PERCENT SLOPES
 - ❖ WeD WEIKERT CHANNERY SILT LOAM 15 TO 25 PERCENT SLOPES
 - ❖ WKE WEIKERT AND KLINESVILLE SILT LOAM STEEF
 - ❖ WsB WHEELINGS SOILS 3 TO 8 PERCENT SLOPES
 - ❖ WsC WHEELING SOILS 8 TO 15 PERCENT SLOPES
- 45. THE PROJECT SITE DRAINS INTO LIMESTONE RUN (WWF) AS CLASSIFIED BY CHAPTER 93.
- 46. STREAM CLASSIFICATION RESTRICTIONS:
 - A. FOR STOCKED TROUT STREAMS: NO IN-STREAM ACTIVITY WITHIN 50 FEET OF THE STREAM OTHER THAN BORING SHALL OCCUR BETWEEN MARCH 1 AND JUNE 15.
 - B. FOR WILD TROUT STREAMS: NO IN-STREAM ACTIVITY WITHIN 50 FEET OF THE STREAM OTHER THAN BORING SHALL OCCUR BETWEEN OCTOBER 1 AND DECEMBER 31.
- 47. THE OPERATOR/PERMITTEE SHALL ENSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED.
- 48. APPROVAL OF THE USE OF SKIMMER(S) DOES NOT APPROVE USE OF ANY SKIMMER(S) IN VIOLATION OF ANY PATENT, PATENT RIGHTS, AND/OR PATENT LAWS.

RECYCLING NOTE

<u>PROCEDURES WHICH ENSURE THAT THE PROPER MEASURES FOR THE RECYCLING OR DISPOSAL OF MATERIALS</u> <u>ASSOCIATED WITH OR FROM THE PROJECT SITE WILL BE UNDERTAKEN IN ACCORDANCE WITH THIS TITLE</u>

[SECTION 102.4(B)(5)(XI)]
THE RECYCLING AND DISPOSAL OF MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. COMPLY WITH AIR QUALITY. WATER QUALITY. SOLID WASTE MANAGEMENT POLICIES. ETC. CONSTRUCTION WASTES MAY INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- EXCESS SOIL MATERIALS(1) OR SEDIMENT AS A RESULT OF EROSION RUNOFF
- TREES, SHRUBS AND BRUSH REMOVED DURING CLEARING AND GRUBBING(2)
- SANITARY WASTES(3) CONCRETE WASH WATER(3)
- PACKAGING MATERIALS (WOOD, PAPER, PLASTIC, STYROFOAM, ETC.)(3)
- SCRAP OR SURPLUS BUILDING MATERIALS (METALS, RUBBER, PLASTIC, GLASS, MASONRY PRODUCTS, AND OTHER SOLID WASTE MATERIALS)(3)
- PETROLEUM PRODUCTS, PAINT AND THINNERS, CLEANING SOLVENTS, CURING COMPOUNDS AND SIMILAR MATERIALS(3)
- DEMOLITION DEBRIS(3)
- UNLESS OTHERWISE DIRECTED. EXCESS SOIL AND EXCAVATED MATERIAL MAY BE USED FOR FILL MATERIAL ON SITE OR OFF SITE. COORDINATE WITH OWNER AND AGENCIES HAVING JURISDICTION.
- 2. TREES, SHRUBS AND BRUSH SHALL BE CHIPPED WHEN POSSIBLE AND REUSED AS MULCH. DO NOT BURN WITHOUT PERMISSION.
- 3. WHERE POSSIBLE WASTES SHALL BE RECYCLED. WHERE NOT PRACTICAL, WASTES SHALL BE PROPERLY DISPOSED OF AT A PERMITTED LANDFILL FACILITY. THE CONTRACTOR IS ENCOURAGED TO CONSULT THE RECYCLING HOTLINE OR LOCAL SOLID WASTE MANAGEMENT AGENCY.

CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING, INCLUDING BUT ARE NOT LIMITED TO THE FOLLOWING:

- NEAT, ORDERLY AND CENTRALIZED STORAGE OF MATERIALS AND WASTES CONTROL OF LITTER PROVIDING CONTAINERS WITH LIDS IF NEEDED
- REGULAR DISPOSAL
- PROMPT CLEANUP OF ANY SPILLS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS OR IN
- ACCORDANCE WITH REGULATORY REQUIREMENTS. UTILIZE A SPECIALTY FIRM IF REQUIRED • PROMPT CLEANUP OF SEDIMENTS WITHIN THE SITE AND ONTO ADJACENT ROADWAYS
- ALL SEDIMENT REMOVED FROM E&S BMPS SHALL BE DISTRIBUTED TO A TOPSOIL STOCKPILE OR SPREAD
- ON THE PROJECT SITE, SEEDED, AND MULCHED.
- KEEP DUST WITHIN TOLERABLE LIMITS BY USING WATER OR OTHER APPROVED DUST SUPPRESSERS

CLEAN FILL NOTE

THE PROPERTY RECEIVING THE FILL.

CLEAN FILL IS UNCONTAMINATED, NONWATER-SOLUBLE, NONDECOMPOSABLE INERT SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND RECOGNIZABLE AS SUCH. (25 PA. CODE 271.101 AND 287.101) THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED.

TO DETERMINE WHETHER A FILL IS CLEAN OR REGULATED, A PERSON MUST PERFORM ENVIRONMENTAL DUE DILIGENCE. ANALYTICAL ASSESSMENT, TESTING OR SAMPLING IS ONLY REQUIRED IF VISUAL INSPECTION OR REVIEWS OF HISTORIC PROPERTY USE INDICATES EVIDENCE OF THE RELEASE OF A REGULATED SUBSTANCE. THE USE OF CLEAN FILL IS REGULATED UNDER ENVIRONMENTAL LAWS AND REGULATIONS. THE USE OF MATERIALS

AS CLEAN FILL UNDER DEP'S CLEAN FILL POLICY, MUST COMPLY WITH ALL APPLICABLE REQUIREMENTS GOVERNING

PLACEMENT, SUCH AS CHAPTER 102 (EROSION AND SEDIMENT CONTROL) AND CHAPTER 105 (DAM SAFETY AND WATERWAY MANAGEMENT). ANY PERSON PLACING CLEAN FILL WHICH HAS BEEN AFFECTED BY A RELEASE OF A REGULATED SUBSTANCE ON A PROPERTY MUST CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF ANALYTICAL TESTING TO

QUALIFY THE MATERIAL AS CLEAN FILL ON FORM FP-001. FORM FP-001 MUST BE RETAINED BY THE OWNER OF

BEST MANAGEMENT PRACTICES (BMP) MUST BE FOLLOWED PRIOR TO DEMOLITION ACTIVITIES TO REMOVE MATERIALS LIKE LEAD BASED PAINT SURFACE, FRIABLE ASBESTOS AND HAZARDOUS MATERIALS SUCH AS MERCURY SWITCHES, PCB BALLASTS AND FLORESCENT LIGHT BULBS FROM A BUILDING IF THE BRICK, BLOCK OR CONCRETE IS USED AS CLEAN FILL.

CLEAN FILL MAY NOT CONTAIN ANY FREE LIQUIDS BASED ON VISUAL INSPECTION, AND SHALL NOT CREATE NUISANCES (FOR EXAMPLE OBJECTIONABLE ODORS) TO USERS OF RECEIVING PROPERTY OR ADJACENT PROPERTY OWNERS.

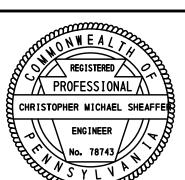
CONSTRUCTION SEQUENCE

SEQUENCE OF BMP INSTALLATION AND REMOVAL IN RELATION TO THE SCHEDULING OF EARTH DISTURBANCE ACTIVITIES, PRIOR TO, DURING AND AFTER EARTH DISTURBANCE ACTIVITIES THAT ENSURE THE PROPER FUNCTIONING OF ALL BMP'S [\$102.4(B)(5)(VII)]

- A. AT LEAST SEVEN (7) DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES (INCLUDING CLEARING AND GRUBBING), THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING.
- B. UPON INSTALLATION OR STABILIZATION OF ALL PERIMETER SEDIMENT CONTROL BMPS AND AT LEAST THREE (3) DAYS PRIOR TO PROCEEDING WITH THE BULK EARTH DISTURBANCE ACTIVITIES, THE PERMITTEE OR CO-PERMITTEE SHALL PROVIDE NOTIFICATION TO THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT
- C. AT LEAST THREE (3) DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM, INC SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- D. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWING. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT PRIOR TO IMPLEMENTATION. EACH STEP OF THE SEQUENCE SHALL BE COMPLETED BEFORE PROCEEDING TO THE NEXT STEP, EXCEPT WHERE NOTED.
- E. SITE SPECIFIC CONSTRUCTION SEQUENCE:
- NOTE: LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT, PLUG INSTALLATION, AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY. REFERENCE UTILITY LINE TRENCH EXCAVATION NOTES ON ESO FOR ADDITIONAL INFORMATION.
- FIELD MARKINGS FOR LIMITS OF DISTURBANCE SHOULD BE INSTALLED.
- 2. INSTALL ORANGE CONSTRUCTION FENCE FOR BASIN AREA ON SHOWN ON THE PLANS TO MINIMIZE COMPACTION OF BASIN AREA.
- 3. INSTALL ALL ROCK CONSTRUCTION ENTRANCES AND COMPOST FILTER SOCK AS INDICATED ON PLANS.
- 4. PERFORM DEMOLITION OF EXISTING FEATURES AS SHOWN ON PLANS.
- 5. STRIP TOPSOIL AND STOCKPILE AT LOCATIONS SHOWN ON PLANS, INSTALL COMPOST FILTER SOCKS AROUND STOCKPILES.
- 6. PERFORM EARTH WORK AND GRADING TO ACHIEVE REQUIRED SUBGRADES IN A MANNER TO MINIMIZE DUST IN AREAS. MAINTAIN SHEET FLOW AND PREVENT CONCENTRATED FLOWS FORM LEAVING THE SITE.
- 7. CONSTRUCT BASIN AS SHOWN ON PLANS. REFER TO PCSM PLANS FOR CONSTRUCTION SPECIFICATIONS AND
 - DETAILS.
 - STAKEOUT BASIN BOTTOM TO AVOID EXCESSIVE COMPACTION BY HEAVY EQUIPMENT. INSTALL OS-1 TO DW-1, WORKING DOWNSTREAM TO UPSTREAM.
 - CONSTRUCT BASIN AS SHOWN ON PLANS.
 - SEED AND MULCH BASIN AREA.
- 7. INSTALL STORMWATER CONVEYANCE SYSTEM I-8 TO I-1 WORKING DOWNSTREAM TO UPSTREAM. INSTALL FILTER BAG INLET PROTECTION ONCE AN INLET IS SET.
- 8. INSTALL STORMWATER CONVEYANCE SYSTEM I-3 TO I-13 WORKING DOWNSTREAM TO UPSTREAM. INSTALL FILTER BAG INLET PROTECTION ONCE AN INLET IS SET.
- 9. INSTALL STORMWATER CONVEYANCE SYSTEM I-6 TO I-11 WORKING DOWNSTREAM TO UPSTREAM. INSTALL FILTER BAG INLET PROTECTION ONCE AN INLET IS SET.
- 10. INSTALL STORMWATER CONVEYANCE SYSTEM FROM EXISTING INLET TO I-15 WORKING DOWNSTREAM TO
- UPSTREAM. INSTALL FILTER BAG INLET PROTECTION ONCE AN INLET IS SET. 11. CONSTRUCT CHANNEL 1 WORKING DOWNSTREAM TO UPSTREAM. INSTALL EROSION CONTROL MATTING.
- 12. CONSTRUCT CHANNEL 2 WORKING DOWNSTREAM TO UPSTREAM, INSTALL EROSION CONTROL MATTING.
- 13. CONSTRUCT RETAINING WALL. 14. CONSTRUCT SIDEWALK, PAVEMENT, AND OTHER SITE AMENITIES. PROPOSED DRIVEWAYS TO BE PERFORMED WHEN THE ROCK CONSTRUCTION ENTRANCE CAN BE REMOVED FOLLOWING FINAL PAVING OF PROPOSED BITUMINOUS AREAS.
- 15. COMPLETE FINAL GRADING AND SEEDING AS SHOWN ON PLANS.

CONTROL MATTING SHOULD REMAIN IN PLANCE.

- 16. IMMEDIATELY STABILIZE DISTURBED AREAS UPON TEMPORARY CESSATION OF WORK, FOUR (4) DAYS OR MORE, AS SOON AS ANY GRADED AREAS REACH FINAL GRADE. IT IS NOT ACCEPTABLE TO WAIT FOR AN ENTIRE PHASE TO BE FINAL GRADED BEFORE SEEDING AND MULCHING TAKES PLACE.
- 17. THE COUNTY CONSERVATION DISTRICT SHALL BE NOTIFIED FOR A SITE REVIEW WHEN 70%PERENNIAL VEGETATION COVER IS ACHIEVED.
- 18. UPON NOTIFICATION FROM THE COUNTY CONSERVATION DISTRICT THAT THE PROJECT IS CONSIDERED STABILIZED, INFILTRATION TESTING SHOULD BE PERFORMED TO ENSURE THAT POST-CONSTRUCTION STORMWATER MANAGEMENT BASIN WILL PERFORM ADEQUATELY. RESULTS SHOULD BE SUBMITTED TO THE CONSERVATION DISTRICT UPON COMPLETION.
- 19. UPON ACHIEVING FINAL GRADES, ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH THE FINAL CONDITIONS.
- 20. REMOVE ANY INLET PROTECTION AND COMPOST FILTER SOCKS STILL REMAINING ON THE PROJECT SITE. CLEAN ANY ACCUMULATED SEDIMENT FROM CHANNELS, CATCH BASIN, AND CULVERTS. ALL EROSION
- 21. CONTRACTOR / APPLICANT SHOULD COMPLETE THE NOTICE OF TERMINATION (NOT) TO PROVIDE TO THE DESIGN PROFESSIONAL FOR SUBMISSION TO THE CONSERVATION DISTRICT TO START THE FINAL INSPECTION PROCESS. AN AS-BUILT DRAWING OF THE SITE SHALL BE INCLUDED WITH THE NOT SUBMISSION.



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UTILITY LINE TRENCH EXCAVATION

(4) DAYS, OR SOONER IF WORK IS COMPLETED.

THE MOST IMPORTANT EROSION AND SEDIMENTATION CONTROL CONSIDERATION FOR TRENCH CONSTRUCTION IS THE LIMITING AND SCHEDULING OF WORK ACTIVITIES, AS FOLLOWS:

- 1. MINIMIZE AREA OF EXPOSURE. DISTURB ONLY THE AREA REQUIRED FOR CONSTRUCTION. AT THE PRESENT NATURAL VEGETATION COVERS THE AREA AND THERE IS LITTLE EROSION. DO NOT DISTURB ANY EXISTING VEGETATION BELOW THE CONSTRUCTION AREA. THIS AREA WILL ACT AS A NATURAL FILTER.
- VEGETATION BELOW THE CONSTRUCTION AREA. THIS AREA WILL ACT AS A NATURAL FILTER.

 2. MINIMIZE THE TIME OF EXPOSURE. ALL DISTURBED AREAS WILL BE RE—SEEDED AND MULCHED WITHIN FOUR
- 3. FOR INSTALLATION IN LAWN AREAS, TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE DISTURBED AND STOCKPILED ADJACENT TO TRENCH FOR REDISTRIBUTION AT FINAL GRADING. EXCAVATED MATERIAL SUITABLE FOR BACKFILLING TRENCH SHALL LIKEWISE BE STOCKPILED ADJACENT TO TRENCH, PREFERABLY UPGRADE OF TRENCH. IF RAIN IS FORECAST PRIOR TO BACKFILLING TRENCH, INSTALL SILT BARRIER FENCE BELOW STOCKPILED MATERIAL AND PROTECT TRENCH FROM ENTRY OF SURFACE WATER.
- 4. FOR INSTALLATION IN PAVEMENT AND SHOULDER AREAS, EXCAVATED MATERIAL SHALL BE LOADED INTO TRUCKS, HAULED OFF SITE AND PROPERLY DISPOSED OF. BACKFILL WITH SELECT MATERIAL. WHERE EXCAVATED MATERIAL IS PERMITTED AS BACKFILL, DO NOT PLACE EXCAVATED MATERIAL IN OR ADJACENT TO CURBS, GUTTERS, OR DITCHES WHERE IT MAY COME IN CONTACT WITH STORM WATER. WHERE EXCAVATED MATERIAL MUST BE SO PLACED, PROTECT MATERIAL BY SECURELY ANCHORED SHEETING, PLASTIC, ETC.
- 5. INSTALL CONTROL MEASURES BEFORE DISTURBING THE LAND THAT DRAINS INTO THEM. ALL CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE WORKING CONDITION DURING CONSTRUCTION UNTIL ALL DISTURBED AREAS ARE STABILIZED. CLEAN OR CHANGE AS NEEDED.
- 6. INSTALL SILT BARRIER FENCE AS SHOWN AND AS REQUIRED IN ACCORDANCE WITH THE DETAIL.
- 7. WATER WHICH ACCUMULATES IN THE OPEN TRENCH WILL BE REMOVED BY PUMPING. NO DISCHARGE OF SILT, MUD OR OTHER POLLUTANTS DIRECTLY INTO ANY WATERCOURSE WHEN USING PUMPS DURING CONSTRUCTION WILL BE PERMITTED. CONSTRUCT SEDIMENTATION BASINS IF NECESSARY. TRENCH DE—WATERING DISCHARGES MAY BE DIRECTED THROUGH A PUMPED WATER FILTER BAG AND ONTO EXISTING VEGETATION IF ACCEPTABLE.
- 8. THESE MEASURES REPRESENT THE MINIMUM PRECAUTIONS REQUIRED. CONTRACTOR SHALL EVALUATE THE EFFECTIVENESS OF THE MEASURES CITED AND IMPLEMENT THEM ALONG WITH ADDITIONAL MEASURES AS NEEDED.
- 9. SCHEDULE OF ACTIVITIES:
- A. INSTALL SILT BARRIER FENCE, AT LIMIT OF GRADING LINE, AND ELSEWHERE AS NEEDED.
- B. CLEAR AND GRUB AREA OF CONSTRUCTION. TREES AND OTHER NATURAL VEGETATION ARE NOT TO BE DISTURBED OUTSIDE THE CONSTRUCTION AREA. LIMIT CLEARING AND GRUBBING OPERATIONS TO A DISTANCE EQUAL TO TWO (2) TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE DAY
- C. EXCAVATE. LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT AND BACKFILLING THAT CAN BE COMPLETED AND TESTED THE SAME DAY.
- D. INSTALL PIPE IN ACCORDANCE WITH RESTORATION DETAILS.
- E. BACKFILL IN ACCORDANCE WITH RESTORATION DETAILS.
- F. ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS AND APPROPRIATE TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROL MEASURES/FACILITIES WILL BE INSTALLED. SEEDING AND MULCHING OF ALL DISTURBED AREAS WILL BE DONE AT THE END OF EACH WEEK.
- G. CONTRACTOR SHALL MAINTAIN ALL CONTROL MEASURES UNTIL PERMANENT STABILIZATION HAS OCCURRED. CHECK CONTROL MEASURES WEEKLY OR AFTER EVERY RAINFALL EVENT. CLEAN OR REPLACE AS NEEDED.
- 10. EXCEPTIONS: IN CERTAIN CASES TRENCHES CANNOT BE BACKFILLED UNTIL THE PIPE IS HYDROSTATICALLY TESTED, OR ANCHORS AND OTHER PERMANENT FEATURES ARE INSTALLED. IN THESE CASES, THE FOLLOWING EXCEPTIONS APPLY:
- A. DAILY BACKFILLING OF THE TRENCH MAY BE DELAYED FOR SIX (6) DAYS. ALL PRESSURE TESTING AND THE COMPLETE BACKFILLING OF THE OPEN TRENCH MUST BE COMPLETED BY THE SEVENTH WORKING
- B. IF DAILY BACKFILLING IS DELAYED, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS, APPROPRIATE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES/FACILITIES WILL BE INSTALLED, AND THE AREAS SEEDED AND MULCHED WITHIN THE NEXT TWO (2) CALENDAR DAYS.

SEEDING

TEMPORARY SEEDING:

- 1. IF PERMANENT VEGETATION IS NOT PLACED ON DISTURBED AREA FOR FOUR (4) OR MORE DAYS, THE DISTURBED AREA SHALL BE SEEDED AS FOLLOWS:
 - A. IF SOIL TEST RESULTS ARE NOT AVAILABLE, APPLY AGRICULTURAL GRADE LIME AT A RATE OF 1 TONS/ACRE, OR 45 LBS/1,000 SF AND FERTILIZER 10-10-10 AT A RATE OF 1000 LBS/ACRE OR 23 LB/1,000 SF;
 - B. BROADCAST TEMPORARY SEED MIXTURE OF ANNUAL RYEGRASS AT A RATE OF 44 LBS/ACRE, OR 1 LB/1,000 SF; AND
- C. SPREAD MULCH (STRAW OR HAY) AT A RATE OF 3 TONS/ACRE, OR 133 LBS/1,000 SF.

PERMANENT SEEDING:

- 1. PLACE TOPSOIL TO A MINIMUM DEPTH OF 6 INCHES WHERE THE TEXTURE OF THE EXPOSED SOIL IS NOT SUITABLE FOR VEGETATIVE GROWTH, OR WHERE THE TOPSOIL DEPTH IS INSUFFICIENT FOR THE SUPPORTING ROOT ZONE.
- 2. LIME AND FERTILIZE ACCORDING TO SOIL TESTS OR AT THE RATES INDICATED BELOW.
- 3. LOOSEN SURFACE SOIL TO A DEPTH OF 4 TO 6 INCHES WITH SUITABLE EQUIPMENT. APPLY SEEDS UNIFORMLY BY BROADCASTING OR HYDROSEEDING.
- 4. MULCH ALL AREAS, IF NECESSARY, MULCH SHALL BE ANCHORED WITH WOOD CELLULOSE FIBER (APPLIED AT A RATE OF 750 LBS/ACRES) OR OTHER SUITABLE MULCH ANCHORING MATERIAL.
- 5. SEED AND SOIL AMENDMENT APPLICATION RATES SLOPES < 3:1:
 - A. APPLY AGRICULTURAL GRADE LIME AT A RATE OF 2 TONS/ACRE, OR 90 LBS/1,000 SF;
- B. APPLY FERTILIZER 10-20-10 AT A RATE OF 696 LBS/ACRE OR 16 LB/1,000 SF;
- C. BROADCAST A PERMANENT SEED MIXTURE OF 50% TALL FESCUE (2 VARIETIES), 40% PERENNIAL RYEGRASS (2 VARIETIES), AND 10% BLUEGRASS (2 VARIETIES) AT A RATE OF 100 LBS/ACRE, OR 2.3 LB/1,000 SF (SEE SPECIFICATIONS FOR FURTHER DETAIL); AND
- D. SPREAD MULCH (STRAW) AT A RATE OF 3 TONS/ACRE, OR 133 LBS/1,000 SF.
- 6. SEED AND TOPSOIL AMENDMENT APPLICATION RATES SLOPE > 3:1:
 - A. APPLY AGRICULTURAL GRADE LIME AT A RATE OF 2 TONS/ACRE, OR 90 LBS/1,000 SF;
 - B. APPLY FERTILIZER 10-20-10 AT A RATE OF 696 LBS/ACRE OR 16 LB/1,000 SF;
 - C. BROADCAST A PERMANENT SEED MIXTURE OF 100% TALL FESCUE 31 AT A RATE OF 100 LBS/ACRE, OR 2.3 LBS/1,000 SF; AND
 - D. SPREAD MULCH (STRAW) AT A RATE OF 3 TONS/ACRE, OR 133 LBS/1,000 SF.
- 7. IF A UNIFORM 70% COVER IS NOT ESTABLISHED ON ALL LAWN AREAS BY OCTOBER 15, THE CONTRACTOR SHALL LOOSEN THE SOIL SURFACE AND APPLY ADDITIONAL TOPSOIL, AND APPLY SOIL AMENDMENTS, SEED, AND MULCH TO THE EXTENT REQUIRED TO ESTABLISH ADEQUATE COVER.
- 8. IF A UNIFORM 90% COVER IS NOT ESTABLISHED ON ALL SLOPES BY OCTOBER 15, ALL BARREN AREAS SHALL BE REPLANTED IN ACCORDANCE WITH THE DIRECTIONS IN ITEMS 5 AND 6.
- 9. ALL VEGETATION SHALL BE GUARANTEED TO ACHIEVE 100% COVERAGE WITHIN ONE YEAR, OR PLANTING SHALL CONTINUE UNTIL 100% COVERAGE IS ACHIEVED.

MAINTENANCE PROGRAM

MAINTENANCE PROGRAM WHICH PROVIDES FOR INSPECTION OF BMPS ON A WEEKLY BASIS AND AFTER EACH MEASURABLE RAINFALL EVENT, INCLUDING THE REPAIR OF THE BMPS TO ENSURE EFFECTIVE AND EFFICIENT OPERATION [\$102.4(B)(5)(X)]

IT SHALL BE THE RESPONSIBILITY OF THE OWNER'S CONTRACTOR TO MAINTAIN THE TEMPORARY CONTROL DEVICES. THE DEVICES SHALL BE REGULARLY INSPECTED ON A WEEKLY BASIS AND AFTER EVERY STORM EVENT. SEE DETAIL SPECIFIC ITEMS FOR PROPER MAINTENANCE OF THOSE ITEMS.

IN ADDITION, THE PA DEP DOCUMENT FORM #3150-FM-BWEW0083 SHOULD BE COMPLETED AS A "VISUAL SITE INSPECTION REPORT" FOR RECORD KEEPING PURPOSES.

THE FOLLOWING BMP'S ARE USED ON THE PROJECT SITE:

- ROCK CONSTRUCTION ENTRANCE WITH WASH RACK
- COMPOST FILTER SOCK
- FILTER BAG INLET PROTECTION

PUMPER WATER FILTER BAG

- CONCRETE WASHOUT
- VEGETATED CHANNEL
 RIP-RAP APRON
- TOPSOIL STOCKPILEEARTHEN LEVEL SPREADER

GENERAL MAINTENANCE

- REPAIR, RESEED, AND RE-MULCH ANY AREAS THAT ERODE PRIOR TO FINAL STABILIZATION. FINAL STABILIZATION WILL BE ACHIEVED WHEN THERE IS A UNIFORM VEGETATIVE COVER OR DENSITY OF 70% ACROSS THE DISTURBED AREA.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE MEASURES TO INSURE THAT SEDIMENT IS NOT DEPOSITED ON PUBLIC WALKS OR ROADWAYS. IF ANY SEDIMENT IS DEPOSITED ON PUBLIC WALKS OR ROADWAYS, IT SHALL BE REMOVED AND RETURNED TO THE SITE DAILY. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER OR SURFACE WATER.

RIPARIAN BUFFERS

NO RIPARIAN BUFFERS ARE LOCATED WITHIN THE PROPOSED PROJECT AREA.

THERMAL IMPACTS

THERMAL IMPACTS ARE REDUCED BY MAINTAINING THE 2—YR RUNOFF VOLUME DIFFERENCE ON THE PROJECT SITE AND DIRECTING IMPERVIOUS RUNOFF TO STORMWATER FACILITIES. RUNOFF IS CAPTURED AND DIRECTED TO AN INFILTRATION BASIN WHICH WILL REDUCE ANY HEAT ISLAND EFFECT FROM IMPERVIOUS SURFACE RUNOFF.

POTENTIAL POLLUTION FROM GEOLOGIC/SOIL CONDITIONS

THERE ARE NO GEOLOGIC FORMATION CONCERNS; HOWEVER, THE SOILS POSE AN EROSION HAZARD. MINIMIZE THE SUBGRADE EXPOSURE WHEN PERFORMING EARTHWORK OPERATIONS.

RECEIVING SURFACE WATER CLASSIFICATION

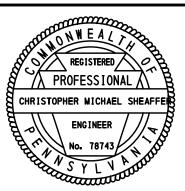
THE PROJECT SITE DRAINS TO THE LIMESTONE RUN WHICH IS CLASSIFIED AS A WARM WATER FISHES (WWF) IN PENNSYLVANIA TITLE 25, CHAPTER 93.

EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN

THE EROSION AND SEDIMENT CONTROL PLAN HAS BEEN DEVELOPED AND INTENDED TO MINIMIZE THE EXTENT AND DURATION OF THE EARTH DISTURBANCE OCCURRING AT THE PROJECT SITE. IN ORDER TO MINIMIZE THE DURATION, THE SITE—SPECIFIC CONSTRUCTION SEQUENCE SHOULD BE FOLLOWED AS APPROVED BY THE NORTHUMBERLAND COUNTY CONSERVATION DISTRICT. THE EXTENT OF DISTURBANCE IS MINIMIZED BY REDUCING THE SLOPES OF THE PROJECT TO THE STEEPEST REASONABLE SLOPES TO MINIMIZE THE FOOTPRINT OF DISTURBANCE. EROSION CONTROL MATTING HAS BEEN ADDED TO STEEP SLOPES AND SPREADING OF SEED AND MULCHING WILL BE PROVIDED IN ALL OTHER AREAS. THE PORTIONS OF THE PROJECT SITE TO BE MATTED CAN BE SEEN ON THE PLAN. THE PLAN HAS BEEN DEVELOPED WITH THE BEST INTENTIONS TO UTILIZE EXISTING DOWNSTREAM DRAINAGE PATHS AND FEATURES.

ALL RUNOFF FROM THE PROJECT SITE WILL BE FILTERED WITH COMPOST FILTER SOCK.

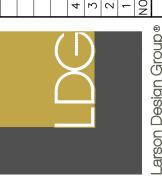
THE USE OF HEAVY EQUIPMENT SHOULD BE AVOIDED ON AREAS THAT WILL BE UTILIZED FOR INFILTRATION. THE EQUIPMENT OPERATOR SHOULD UTILIZE THE BUCKET TEETH FOR EXCAVATION OF THE FINAL SIX (6) INCHES TO AVOID COMPACTION AND SEALING OF THE SUBGRADE. SMEARING OF THE SOILS MAY LEAD TO CLOGGING OF THE SOIL VOIDS AND REDUCE OR ELIMINATE INFILTRATION. IN ADDITION, EXCESSIVE COMPACTION DURING THE PLACEMENT OF TOPSOIL, SEEDING AND MULCHING OPERATIONS SHOULD BE MINIMIZED TO ASSIST IN TOP LEVEL INFILTRATION THROUGHOUT THE PROJECT SITE.



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MILTON BAUGHER ELEME SOROUGH OF MILTON, NORTHUMBERLAN NOOI District

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Milton, PA 17847

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