ATLANTIC SUNRISE PROJECT PROPOSED 42" NATURAL GAS PIPELINE

POST CONSTRUCTION STORMWATER MANAGEMENT PLANS FOR COMPRESSOR STATION 610

FACILITY NAME & TYPE	DRAWING NO.	SHEET NO.	DRAWING NAME
	(66-0610)F-1A-9	1 of 7	COVER SHEET REVISED
Γ	(66-0610)F-1A-9	2 of 7	SENSITIVE RESOURCES MAP
CS-610	(66-0610)F-1A-9	3 of 7	POST CONSTRUCTION STORMWATER MANAGEMENT PLAN
COMPRESSOR	(66-0610)F-1A-9	4 of 7	PCSM NOTES AND DETAILS REVISED
STATION	(66-0610)F-1A-9	5 of 7	PCSM NOTES AND DETAILS
	(66-0610)F-1A-9	6 of 7	PCSM NOTES AND DETAILS REVISED
	(66-0610)F-1A-9	7 of 7	PCSM NOTES AND DETAILS

awn By & Date/Time: rkiernan Jul 28, 2017 — 1:20pm awing Location & Name: G:\JOBS14\14C\14C4909\DWG\020-CPLS\FCS_CV14C4909(20)_PCSM-COL-61(

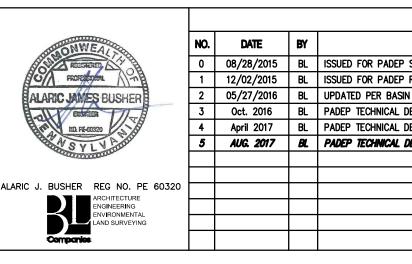


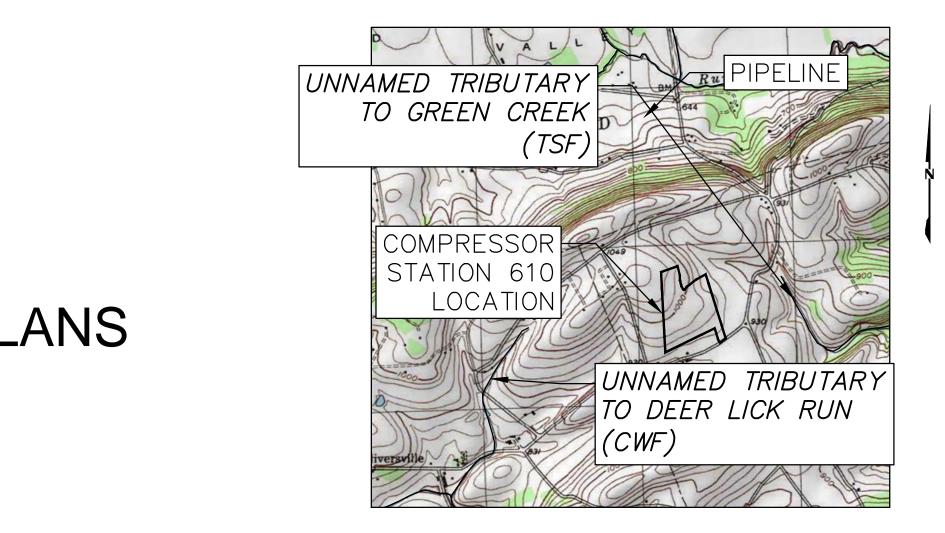
PENNSYLVANIA ACT 287 (1974) AS AMENDED BY PENNSYLVANIA ACT 199 (2004) REQUIRES NO LESS THAN THREE (3) WORKING DAYS AND NO MORE THAN (10) WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST OR DEMOLISH. PHASE 1

ORANGE TOWNSHIP COLUMBIA COUNTY

PENNSYLVANIA

ENGINEER OF RECORD BL COMPANIES 4242 CARLISLE PIKE, SUITE 260 CAMP HILL, PA 17011 P:717-651-9850 F:717-651-9858





USGS BLOOMSBURG QUADRANGLE VICINITY MAP SCALE: 1"=2,000'

REVISIONS	TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC									
DESCRIPTION	ATLANTIC SU	ATLANTIC SUNRISE PROJECT- PROPOSED 42" NATURAL GAS PIPELINE								
EP SUBMITTAL W01161505 DAK AJB				POST	POST CONSTRUCTION STORMWATER MANAGEMENT PLANS					
EP RESUBMITTAL	W01161505	DAK	AJB		00					
ASIN SYSTEMS DESIGN COORDINATION	W01161505	AJB	AJB			FOR	COMPRES	SSOR STATION 610		Williams
L DEFICIENCY RESPONSE #1	W01161505	AJB	AJB	AJB ORANGE TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA						
L DEFICIENCY RESPONSE #2	W01161505	AJB	AJB	B						
l Deficiency response #3	W01161505	AJB	AJB	COVER SHEET						
				DRAWN BY:	JEC	DATE:	DATE: 04/03/15 ISSUED FOR BID: SCALE:			AS NOTED
				CHECKED BY:	AJB	DATE:	04/03/15	15 ISSUED FOR CONSTRUCTION: REVISION:		
				APPROVED BY:	AJB	DATE: 07/17/15 DRAWING NUMBER: (66-0610)F-1A-9			SHEET 1	
				WO: 116	1505					OF 7

PCSM STANDARD NOTES

PERMIT TERMINATION

UPON PERMANENT STABILIZATION OF THE EARTH DISTURBANCE ACTIVITY UNDER § 102.22(A)(2) (RELATING TO PERMANENT STABILIZATION). AND INSTALLATION OF BMPS IN ACCORDANCE WITH AN APPROVED PLAN PREPARED AND IMPLEMENTED IN ACCORDANCE WITH \$\$ 102.4 AND 102.8 (RELATING TO EROSION AND SEDIMENT CONTROL REQUIREMENTS; AND PCSM REQUIREMENTS), THE PERMITTEE OR CO-PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION 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 COMPLIANCE WITH § 102.8(M)(2).

PCSM REQUIREMENTS

PCSM REPORTING AND RECORD KEEPING: THE PCSM PLAN, INSPECTION REPORTS AND MONITORING RECORDS SHALL BE AVAILABLE FOR REVIEW AND INSPECTION BY THE DEPARTMENT OR THE CONSERVATION DISTRICT.

LICENSED PROFESSIONAL OVERSIGHT OF CRITICAL STAGES: A LICENSED PROFESSIONAL OR A DESIGNEE SHALL BE PRESENT ONSITE AND BE RESPONSIBLE DURING CRITICAL STAGES OF IMPLEMENTATION OF THE APPROVED PCSM PLAN. THE CRITICAL STAGES MAY INCLUDE THE INSTALLATION OF UNDERGROUND TREATMENT OR STORAGE BMPS. STRUCTURALLY ENGINEERED BMPS, OR OTHER BMPS AS DEEMED APPROPRIATE BY THE DEPARTMENT OR THE CONSERVATION DISTRICT.

FINAL CERTIFICATION: THE PERMITTEE SHALL INCLUDE WITH THE NOTICE OF TERMINATION "RECORD DRAWINGS" WITH A FINAL CERTIFICATION STATEMENT FROM A LICENSED PROFESSIONAL, WHICH READS AS FOLLOWS: "I (NAME) DO HEREBY CERTIFY PURSUANT TO THE PENALTIES OF 18 PA.C.S.A. § 4904 TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE ACCOMPANYING RECORD DRAWINGS ACCURATELY REFLECT THE AS-BUILT CONDITIONS, ARE TRUE AND CORRECT, AND ARE IN CONFORMANCE WITH CHAPTER 102 OF THE RULES AND REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE PROJECT SITE WAS CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PCSM PLAN, ALL APPROVED PLAN CHANGES AND ACCEPTED CONSTRUCTION PRACTICES."

(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.

PCSM LONG TERM OPERATIONS AND MAINTENANCE REQUIREMENTS

UNTIL THE PERMITTEE OR CO-PERMITTEE HAS RECEIVED WRITTEN APPROVAL OF A NOTICE OF TERMINATION, THE PERMITTEE OR CO-PERMITTEE WILL REMAIN RESPONSIBLE FOR COMPLIANCE WITH THE PERMIT TERMS AND CONDITIONS INCLUDING LONG-TERM OPERATION AND MAINTENANCE OF ALL PCSM BMPS ON THE PROJECT SITE AND IS RESPONSIBLE FOR VIOLATIONS OCCURRING ON THE PROJECT SITE. THE DEPARTMENT OR CONSERVATION DISTRICT WILL CONDUCT A FINAL INSPECTION AND APPROVE OR DENY THE NOTICE OF TERMINATION WITHIN 30 DAYS.

THE PERMITTEE OR CO-PERMITTEE SHALL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF PCSM BMPS UNLESS A DIFFERENT PERSON IS IDENTIFIED IN THE NOTICE OF TERMINATION AND HAS AGREED TO LONG-TERM OPERATION AND MAINTENANCE OF PCSM BMPS.

FOR ANY PROPERTY CONTAINING A PCSM BMP, THE PERMITTEE OR CO-PERMITTEE SHALL RECORD AN INSTRUMENT WITH THE RECORDER OF DEEDS WHICH WILL ASSURE DISCLOSURE OF THE PCSM BMP AND THE RELATED OBLIGATIONS IN THE ORDINARY COURSE OF A TITLE SEARCH OF THE SUBJECT PROPERTY. THE RECORDED INSTRUMENT MUST IDENTIFY THE PCSM BMP. PROVIDE FOR NECESSARY ACCESS RELATED TO LONG-TERM OPERATION AND MAINTENANCE FOR PCSM BMPS AND PROVIDE NOTICE THAT THE RESPONSIBILITY FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMP IS A COVENANT THAT RUNS WITH THE LAND THAT IS BINDING UPON AND ENFORCEABLE BY SUBSEQUENT GRANTEES, AND PROVIDE PROOF OF FILING WITH THE NOTICE OF TERMINATION UNDER § 102.7(B)(5) (RELATING TO PERMIT TERMINATION THE PERSON RESPONSIBLE FOR PERFORMING LONG-TERM OPERATION AND MAINTENANCE MAY ENTER INTO AN

AGREEMENT WITH ANOTHER PERSON INCLUDING A CONSERVATION DISTRICT, NONPROFIT ORGANIZATION, MUNICIPALITY, AUTHORITY, PRIVATE CORPORATION OR OTHER PERSON, TO TRANSFER THE RESPONSIBILITY FOR PCSM BMPS OR TO PERFORM LONG-TERM OPERATION AND MAINTENANCE AND PROVIDE NOTICE THEREOF TO THE DEPARTMENT.

A PERMITTEE OR CO-PERMITTEE THAT FAILS TO TRANSFER LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMP OR OTHERWISE FAILS TO COMPLY WITH THIS REQUIREMENT SHALL REMAIN JOINTLY AND SEVERALLY RESPONSIBLE WITH THE LANDOWNER FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPS LOCATED ON THE PROPERTY.

CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE.)

CLEAN FILL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE:

FILL MATERIALS AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE STILL QUALIFIES AS CLEAN FILL PROVIDED THE TESTING REVEALS THAT THE FILL MATERIAL CONTAINS CONCENTRATIONS OF REGULATED SUBSTANCES THAT ARE BELOW THE RESIDENTIAL LIMITS IN TABLES FP-1A AND FP-1B FOUND IN THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL."

ANY PERSON PLACING CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE MUST USE FORM FP-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF THE ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE OWNER OF THE PROPERTY RECEIVING THE FILL AND MUST BE KEPT ON SITE AND MADE AVAILABLE UPON REQUEST BY THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT. FAILURE TO PRODUCE THE FORM UPON REQUEST MAY RESULT IN THE REVOKING, SUSPENSION OR TERMINATION OF YOUR PERMIT COVERAGE. A COPY OF FORM FP-001 CAN BE FOUND AT THE END OF THESE INSTRUCTIONS.

ENVIRONMENTAL DUE DILIGENCE: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL."

FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA. CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE

RECYCLING AND DISPOSAL OF MATERIALS

BUILDING MATERIALS AND OTHER CONSTRUCTION SITE WASTES MUST BE PROPERLY MANAGED AND DISPOSED OF TO REDUCE POTENTIAL FOR POLLUTION TO SURFACE AND GROUND WATERS AS PER 25 PA. CODE § 102.4(B)(5)(XI). PROPER TRASH DISPOSAL, RECYCLING OF MATERIALS, PROPER MATERIALS HANDLING, AND SPILL PREVENTION AND CLEAN-UP REDUCE THE POTENTIAL FOR CONSTRUCTION SITE WASTES TO BE MOBILIZED BY STORMWATER RUNOFF AND CONVEYED TO SURFACE WATERS.

UNDER NO CIRCUMSTANCES MAY EROSION CONTROL BMPS BE USED FOR TEMPORARY STORAGE OF DEMOLITION MATERIALS OR CONSTRUCTION WASTES.

WHEREVER HEAVY EQUIPMENT WILL BE USED DURING CONSTRUCTION OF THE CUTS AND FILLS OR PROPOSED BUILDINGS, A POLLUTION PREVENTION AND CONTINGENCY (PPC) PLAN MUST BE AVAILABLE ON SITE. THE APPLICANT MUST PREPARE AND IMPLEMENT A PPC PLAN WHEN STORING, USING OR TRANSPORTING MATERIALS INCLUDING: FUELS, CHEMICALS, SOLVENTS, PESTICIDES, FERTILIZERS, LIME, PETROCHEMICALS, WASTEWATER, WASH WATER, CORE DRILLING WASTEWATER, CEMENT, SANITARY WASTES, SOLID WASTES, OR HAZARDOUS MATERIALS ONTO, ON, OR FROM THE PROJECT SITE DURING EARTH DISTURBANCE ACTIVITIES. THE PPC PLAN MUST BE AVAILABLE UPON REQUEST BY THE DEPARTMENT OR CONSERVATION DISTRICT, GUIDANCE FOR DEVELOPMENT OF A PPC PLAN CAN BE FOUND IN "GUIDELINES FOR THE DEVELOPMENT AND IMPLEMENTATION OF ENVIRONMENTAL EMERGENCY RESPONSE PLANS" (DOCUMENT #400-2200-001), WHICH CAN BE FOUND IN THE DEPARTMENT'S ELIBRARY AT WWW.DEPWEB.STATE.PA.US,

SILT, SEDIMENT, TRASH, CONSTRUCTION WASTES AND ALL OTHER WASTES GENERATED DURING OPERATION AND MAINTENANCE ACTIVITIES SHALL BE PROPERLY MANAGED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.

ALL APPLICABLE FEDERAL. STATE. AND LOCAL LAWS AND REGULATIONS MUST BE FOLLOWED IN THE USE. HANDLING. AND DISPOSAL OF POTENTIALLY HAZARDOUS MATERIALS.

RESPONSIBLE PARTY

OPERATION AND MAINTENANCE SHALL BE THE RESPONSIBILITY OF WILLIAMS (APPLICANT).

ANNUAL CERTIFICATION OF MAINTENANCE PROCEDURES: THE FACILITY SHALL MAINTAIN A CHECKLIST WHENEVER THE STORM SYSTEM IS INSPECTED AND CLEANED. AN ANNUAL LIST OF INSPECTIONS AND MAJOR CLEANING OPERATIONS AND REPAIRS (PUMPING, SWEEPING PARKING LOTS, CLEANING CATCH BASIN SUMPS ETC.) SHALL BE MAINTAINED. THE LOCAL CCD OR ENFORCEMENT OFFICIALS SHALL HAVE ACCESS TO THOSE RECORDS.

PRACTICES.

VEGETATED SWALES WITH CHEC OPERATION & MAINTENANCE PRO

ACTIVITY PLANT ALTERNATIVE GRASS SPECIES IN THE EVENT OF UNSUCCESSFUL ESTABLISHMENT. RESEED BARE AREAS: ROTOTILL OR CULTIVATE THE SURFACE OF THE SAND/SOIL BED OF DRY SWALES IF THE SWALE DOES NOT DRAW DOWN WITHIN 48 HOURS. WATER DURING DRY PERIODS, FERTILIZE, AND APPLY PESTICIDES WHEN NECESSARY. REMOVE SEDIMENT BUILD-UP WITHIN THE BOTTOM OF THE SWALE ONCE I HAS ACCUMULATED TO 25% OF THE ORIGINAL DESIGN VOLUME, OR ONCE IT HAS COVERED VEGETATION.

INSPECT AND CORRECT EROSION PROBLEMS, DAMAGE TO VEGETATION, DAMAGE TO CHECK DAMS, AND SEDIMENT AND DEBRIS ACCUMULATION INSPECT GRASS ALONG SIDE SLOPES FOR EROSION, RILLS, OR GULLIES, & CORRECT. MOW AND TRIM VEGETATION TO ENSURE SAFETY, PROPER SWALE OPERATION, OR TO SUPPRESS WEEDS AND INVASIVE VEGETATION. INSPECT FOR POOLS OF STANDING WATER: DEWATER & DISCHARGE TO AN APPROVED LOCATION, RESTORE TO DESIGN GRADE. INSPECT FOR UNIFORMITY IN CROSS-SECTION & LONGITUDINAL SLOPE. CORRECT AS NEEDED. INSPECT SWALE INLET AND OUTLET FOR SIGNS OF EROSION OR BLOCKAGE, CORRECT AS NEEDED.

INSPECT SWALE IMMEDIATELY AFTER SPRING MELT. REMOVE RESIDUALS AND REPLACE DAMAGED VEGETATION. IF ROADSIDE OR PARKING LOT RUNOFF IS DIRECTED TO THE SWALE. MULCHING &/OR SOIL AERATION MAY BE REQUIRED IN THE SPRING TO RESTORE SOIL STRUCTURE & MOISTURE CAPACITY & TO REDUCE THE IMPACT OF DEICING AGENTS. USE NONTOXIC, ORGANIC DEICING AGENTS. PLANT SALT TOLERANT VEGETATION N SWALES.

DISCONNECTION FROM STORM OPERATION & MAINTENANCE PRO ACTIVITY

INSPECT AND MAINTAIN GRADE TO ENSURE DISCONNECTED IMPERVIOUS AREAS CONTINUE TO BE DIRECTED 1 INFILTRATION AREAS AND VEGETATED SWALES

LEVEL SPREADER

OPERATION & MAINTENANCE PRO ACTIVITY

THE RECEIVING LAND AREA SHOULD BE IMMEDIATELY RESTORED TO DESIGN CONDITIONS AFTER ANY DISTURBANCE. SEDIMENT & DEBRIS SHOULD BE ROUTINELY REMOVED.

INSPECTIONS SHALL BE MADE FOLLOWING RAINFALL EVENTS EXCEEDING 1-INCH.

MONITOR THE PERFORMANCE OF THE LEVEL SPREADER. THE AREA BELOW A LEVEL SPREADER SHOULD BE INSPECTED FOR CLOGGING, DENSITY OF VEGETATION, DAMAGE BY FOOT OR VEHICULAR TRAFFIC. EXCESSIVE ACCUMULATIONS, & CHANNELIZATION.

CATCH BASINS & INLETS DRAINING TO A LEVEL SPREADER SHOULD BE INSPECTED & CLEANED. UNWANTED OR INVASIVE GROWTH SHOULD BE REMOVED.

- GENERAL MAINTENANCE NOTES: IT IS CRITICAL THAT EVEN SHEET FLO CONDITIONS ARE SUSTAINED THROUGH LIFE OF THE LEVEL SPREADER, AS TH
- EFFECTIVENESS CAN DETERIORATE DUE TO LACK OF MAINTENANCE, INADEQUATE DESIGN/LOCATION, AND/OR POOR VEGETATIVE COVER. IN NO CASE SHOULD STANDING WATER BE
- ALLOWED ALONG SLOPES FOR LONGER THAN 72 HOURS MAINTAINING A VIGOROUS VEGETATIVE COVER ON
- THE AREAS BELOW A LEVEL SPREADER IS CRITICAL FOR MAXIMIZING POLLUTANT REMOVAL
- EFFICIENCY & EROSION PREVENTION. PRIOR TO PLACING THE LEVEL SPREADER INTO SERVICE, A QUALIFIED PROFESSIONAL PREFERABLY THE DESIGNER, SHOULD INSPECT THE STRUCTURE ONCE IT IS FULLY CONSTRUCTED SO THAT NECESSARY ADJUSTMENTS OR REPAIRS
- CAN BE MADE BEFORE THE CONTRACTOR LEAVES THE SITE. MONITORING SHOULD BE DOCUMENTED IN INSPECTION REPORTS SUBMITTED TO THE CONSERVATION DISTRICT ALONG WITH A SUMMARY
- OF ANY REPAIRS OR ADJUSTMENTS COMPLETED. MODIFICATIONS MAY NEED PRIOR APPROVAL. AS-BUILT DRAWINGS SHALL BE SUBMITTED BY THE END OF THE 2-YEAR MONITORING PERIOD VERIFYING THAT THE LEVEL SPREADER WAS BUILT DESIGNED AND PERFORMING AS INTENDED

						AS DESIGNED AND P	ERFORMING AS INTENDE		
Γ	LANDSCAPE SCHED	DULE							
	SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	CALIPER	HEIGHT	SPREAD	ROOT	NOTES
	SHRUBS								
MAN	CS	11	CORNUS SERICA	REDOSIER DOGWOOD 'WINTER FLAME'	0	18-24"	18–24"	3 GAL	FULL
*	IV	9	LLEX VERTICILLATA	COMMON WINTERBERRY	0	24-30"	18–24"	5 GAL	FULL PLANT TO BASE

OPERATIONS AND MAINTENANCE PROGRAM PERMANENT STORMWATER FACILITIES

THE PERMIT APPLICANT SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF PERMANENT STORMWATER FACILITIES LOCATED ON THE SUBJECT PROPERTIES. PERMANENT MAINTENANCE OF THE STORM SYSTEM AFTER ACCEPTANCE WILL PRIMARILY CONSIST OF ROUTINE CLEANING OF ACCUMULATED SEDIMENT AND DEBRIS BY FACILITY STAFF OR PRIVATE CONTRACTORS. THE SPECIFIC MAINTENANCE STEPS AND SCHEDULE ARE LISTED BELOW:

ESCGP2: COMPLIANCE WITH ESCGP-2 REQUIREMENTS AND RECORD KEEPING FOR PERMANENT STORMWATER DISCHARGE AND MAINTENANCE AND OTHER APPLICABLE ESCGP-2 AND DEP REQUIREMENTS REGARDING DISCHARGES.

REFER TO THE TABLES BELOW FOR THE OPERATION AND MAINTENANCE OF POST CONSTRUCTION BEST MANAGEMENT

CK DAMS	INFILTRATION BASIN / RAIN	GARDEN
DCEDURES	OPERATION & MAINTENANCE P	ROCEDURES
SCHEDULE	ACTIVITY	SCHEDULE
AS NEEDED	INSPECT AND CORRECT EROSION PROBLEMS, DAMAGE TO VEGETATION, AND SEDIMENT AND DEBRIS ACCUMULATION. INSPECT GRASS ALONG SIDE SLOPES FOR EROSION, RILLS, OR GULLIES, & CORRECT. MOW AND TRIM VEGETATION TO ENSURE SAFETY, PROPER SWALE OPERATION, OR TO SUPPRESS WEEDS AND INVASIVE VEGETATION. INSPECT FOR POOLS OF STANDING WATER; DEWATER & DISCHARGE TO AN APPROVED LOCATION, RESTORE TO DESIGN GRADE. INSPECT FOR UNIFORMITY IN CROSS-SECTION & LONGITUDINAL SLOPE, CORRECT AS NEEDED. INSPECT SWALE INLET AND OUTLET FOR SIGNS	ANNUAL
	OF EROSION OR BLOCKAGE, CORRECT AS NEEDED. INSPECT OUTLET CONTROL DEVICES AFTER EVERY MAJOR RAINFALL EVENT (>1 IN.) TO ENSURE FREE FLOW. INSPECT SOIL & REPAIR ERODED	AS NEEDED
	AREAS, REMOVE LITTER AND DEBRIS	
	INSPECT FOR SEDIMENT BUILDUP, EROSION, VEGETATIVE CONDITIONS, REMOVE & REPLACE DEAD & DISEASED VEGETATION.	TWICE PER YEAR
NNUAL - PRING	GENERAL MAINTENANCE NOTES: 1. WHILE VEGETATION IS BEING ESTABI PRUNING AND WEEDING MAY BE RE 2. DURING PERIODS OF EXTENDED DRO BIORETENTION AREAS MAY REQUIRE	QUIRED. DUGHT,
	PARKING AREA IMPERVIOU	JSNESS
	OPERATION & MAINTENANCE P	ROCEDURES
	ACTIVITY INSPECT AND MAINTAIN GRAVEL AREAS	SCHEDULE AS NEEDED
SEWERS	LANDSCAPE RESTORAT	ION
DCEDURES	OPERATION & MAINTENANCE P	ROCEDURES
SCHEDULE	ACTIVITY	SCHEDULE
S NEEDED	RESTRICT VEHICLE ACCESS. ASSIGN RESPONSIBILITIES FOR WATERING, WEEDING, MOWING AND MAINTENANCE.	AT ALL TIMES
	INSPECT AREA FOR GROWTH AND POTENTIAL PROBLEMS. MOW, WEED AND RESEED AS NEEDED FOR MEADOW ESTABLISHMENT.	ANNUALLY
DCEDURES SCHEDULE	STREET SWEEPING	
AS NEEDED	OPERATION & MAINTENANCE P	ROCEDURES
	ACTIVITY	SCHEDULE
AS NEEDED	INSPECT AREAS FOR SEDIMENT AND DEBRIS ACCUMULATION. REMOVE WITH DRY VACUUM EQUIPMENT.	AS NEEDED/ SEMI-ANNUALLY IN SPRING AND FALL
	MINIMIZE TOTAL DISTURBE	D AREA
OUR TIMES	OPERATION & MAINTENANCE PI	ROCFDURFS
ER YEAR FOR HE FIRST TWO		SCHEDULE
EARS; EMIANNUAL HEREAFTER	REPLANT SUITABLE SPECIES IN THE EVENT OF DEAD OR DYING VEGETATION. RESEED BARE AREAS AND INSTALL APPROPRIATE EROSION CONTROLS WHEN SOIL IS EXPOSED.	AS NEEDED
NNUAL	INSPECT AND ENSURE PROTECTED AREAS REMAIN UNDISTURBED AFTER CONSTRUCTION ACTIVITIES CEASE.	BIANNUALLY
DW HOUT THE HEIR JE TO LACK	MINIMIZED TOTAL DISTURBED AREA NOTES 1. THE PROTECTED AREA SHOULD NOT GRADING OR MOVEMENT OF EXISTING 2. EXISTING NATIVE VEGETATION IS NOT REMOVED WITHIN THE PROTECTED AR 3. ADDITIONAL PLANTING OF NATIVE VEG	BE SUBJECT TO SOILS. TO BE EA.

- REMOVED WITHIN THE PROTECTED AR ADDITIONAL PLANTING OF NATIVE VEGETATION IS
- ALLOWED IN THE PROTECTED AREA. 4. THE PROTECTED AREA MUST BE DELINEATED IN THE
- FIELD AND PROTECTED PRIOR TO ANY CONSTRUCTION ACTIVITIES TAKING PLACE. SHOULD THE PROTECTED AREA BECOME COMPACTED
- AND/OR DISTURBED, SOILS AMENDMENT AND RESTORATION MAY BE REQUIRED.

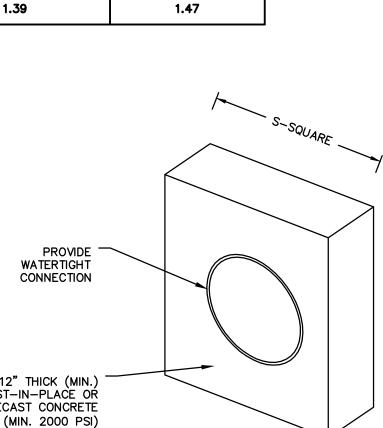
GENERAL LANDSCAPE NOTES

- 1. <u>GUARANTEE</u>; GUARANTEE ALL PLANTS AND LAWNS FOR A MINIMUM OF 1 YEAR TO BE ALIVE AND IN VIGOROUS GROWING CONDITION AT THE END OF THE GUARANTEE PERIOD. THE GUARANTEE PERIOD FOR ALL PLANTS SHALL BEGIN UPON APPROVAL AS SPECIFIED UNDER SUBSTANTIAL COMPLETION. PLANT MATERIALS AND LAWNS APPROVED IN THE SPRING SHALL BE ALIVE AND IN SATISFACTORY GROWTH ON JUNE 1 OF THE FOLLOWING YEAR; PLANTING DONE IN LATE FALL (AFTER NOVEMBER 1ST) SHALL BE MAINTAINED AND GUARANTEED UNTIL THE SPRING'S LEAFING AFTER THE SECOND YEAR. <u>REPLACEMENTS:</u> ALL PLANTS SHALL BE FREE OF DEAD OR DYING BRANCHES AND BRANCH TIPS, AND SHALL BEAR FOLIAGE OF A NORMAL DENSITY, SIZE AND COLOR. PROMPTLY REMOVE DEAD, UNSIGHTLY, UNHEALTHY, OR EXCESSIVELY PRUNED PLANTS. THESE AND ANY PLANTS MISSING DUE TO THE CONTRACTOR'S NEGLIGENCE, SHALL BE REPLACED OR ADDED WITH THE SAME KIND AND SIZE AS ORIGINALLY SPECIFIED AS SOON AS CONDITIONS PERMIT. METHOD OF REPLACEMENT SHALL BE THE SAME AS SPECIFIED FOR THE ORIGINAL PLANTING WITH REPLACEMENTS MATCHING ADJACENT SPECIMENS OF THE SAME SPECIES. REPLACEMENTS SHALL BE MADE AS MANY TIMES AS NECESSARY TO ENSURE HEALTHY PLANTS AND THEY SHALL BE MAINTAINED AND GUARANTEED. REPLACEMENTS SHALL BE MADE AT THE CONTRACTOR'S EXPENSE AND SHALL BE GUARANTEED FOR TWO FULL YEARS FROM TIME OF REPLACEMENT. PLANTS SHALL BE OTHERWISE PROTECTED AND MAINTAINED, INCLUDING, BUT NOT LIMITED TO, WATER AND SHADE. ANY PLANTS DEEMED NOT IN SATISFACTORY HEALTH OF CONDITION AT THE TIME OF PLANTING SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- 2. THE CONTRACTOR SHALL SUPPLY ALL LABOR AND MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND LISTED IN THE PLANT SCHEDULE.
- 3. UTILITY LOCATIONS SHOWN IN THE DRAWINGS ARE APPROXIMATE, EXERCISE CARE WHEN DIGGING IN AREAS OF POTENTIAL CONFLICT WITH UNDERGROUND OR OVERHEAD UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DUE TO CONTRACTOR'S NEGLIGENCE AND SHALL REPLACE OR REPAIR ANY DAMAGE AT CONTRACTOR'S EXPENSE.
- 4. FOR ALL PLANTING AND LAWN AREAS, CONTRACTOR SHALL EXCAVATE EXISTING SOIL TO PROVIDE A MINIMUM OF 4" OF PLANTING TOPSOIL MIX FROM FINISHED PLANTING ELEVATION. CONTRACTOR SHALL SUBMIT TOPSOIL TO A CERTIFIED TESTING LABORATORY TO DETERMINE ₽H, FERTILITY, ORGANIC CONTENT AND MECHANICAL COMPOSITION. THE CONTRACTOR SHALL SUBMIT THE TEST RESULTS FROM REGIONAL EXTENSION OFFICE OF USDA TO THE OWNER OR LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. CONTRACTOR SHALL INCORPORATE AMENDMENTS FOR GOOD PLANT GROWTH AND PROPER SOIL ACIDITY RECOMMENDED FROM THE TOPSOIL TEST AT NO INCREASE IN CONTRACT PRICE.
- 5. ALL LANDSCAPING SHALL BE PERPETUALLY MAINTAINED BY THE PROPERTY OWNER. ANY LANDSCAPING NEEDED TO MEET AN ORDINANCE REQUIREMENT THAT DIES, IS REMOVED, OR IS SEVERELY DAMAGED SHALL BE REPLACED BY THE CURRENT PROPERTY OWNER AS SOON AS IS PRACTICAL CONSIDERING GROWING SEASONS, WITHIN A MAXIMUM OF 150 DAYS.
- 6. AT ALL TIMES, THE SITE SHALL BE KEPT NEAT AND SHALL BE KEPT FREE OF DEBRIS LEFT FROM THE PLANTING OPERATION. 7. ALL DISTURBED LANDSCAPE AREAS ARE TO BE RESEEDED.
- 8. DURING THE CONSTRUCTION AND GURANTEE PERIOD, WATER LAWN AT THE MINIMUM RATE OF 1 INCH (25 MM) PER WEEK. MOW LAWNS AS SOON AS THERE IS ENOUGH TOP GROWTH TO CUT WITH MOWER SET AT SPECIFIED HEIGHT FOR PRINCIPAL SPECIES PLANTED. REPEAT MOWING AS REQUIRED TO MAINTAIN SPECIFIED HEIGHT WITHOUT CUTTING MORE THAN 40 PERCENT OF GRASS HEIGHT. REMOVE NO MORE THAN 40 PERCENT OF GRASS-LEAF GROWTH IN INITIAL OR SUBSEQUENT MOWINGS. DO NOT DELAY MOWING UNTIL GRASS BLADES BEND OVER AND BECOME MATTED. DO NOT MOW WHEN GRASS IS WET.
- 9. ALL DISTURBED AREAS WITHIN 50' OF A STREAM CROSSING (WHERE THE STREAM WIDTH IS LESS THAN OR EQUAL 10') SHALL BE STABILIZED WITHIN 24 HOURS OF COMPLETING CONSTRUCTION AT THE CROSSING.
- 10. ALL DISTURBED AREAS WITHIN 50' OF A STREAM CROSSING (WHERE THE STREAM WIDTH > 10') SHALL BE STABILIZED WITHIN 48 HOURS OF COMPLETING CONSTRUCTION AT THE CROSSING.

ENGINEERED SOIL NOTES

- NOTES 1. CONTRACTOR SHALL VERIFY THAT THE AMENDED SOIL PROVIDES AN INFILTRATION RATE BETWEEN 0.40 IN/HR AND 10 IN/HR. CONTRACTOR TO CONDUCT
- IN-SITU TESTING OF INFILTRATION RATES AS PER THE SEQUENCE OF CONSTRUCTION. 2. AMENDED SOIL MIX SHALL CONSIST OF A 2:1 SOIL TO COMPOST RATIO. THE COMPOST SHALL HAVE A MINIMUM 80% ORGANIC MATTER
- CONTENT. SOIL SHALL HAVE A CLAY CONTENT OF LESS THAN 10% AND BE FREE OF TOXIC SUBSTANCES. 3. EXCAVATE TO PROPOSED INVERT ELEVATION AND SCARIFY EXISTING SOILS, DO NOT COMPACT IN-SITU SOILS. BACKFILL WITH AMENDED SOIL, LIGHT HAND TAMPING IS ACCEPTABLE. OVERFILL AS REQUIRED TO ACCOUNT FOR SETTLEMENT.
- 5. UPON COMPLETION, SEED AND MULCH THE BASIN USING THE STORM BASIN SEED MIXTURE

ENGINEERED SOIL PARAMETERS							
SOIL TEXTURE	IDEAL BULK DENSITIES g/cm ³	BULK DENSITIES THAT MAY AFFECT ROOT GROWTH g/cm ³	B RE				
SANDS, LOAMY SANDS	< 1.60	1.69					
SANDY LOAMS, LOAMS	< 1.40	1.63					
SANDY CLAY LOAMS, LOAMS, CLAY LOAMS	< 1.40	1.60					
SILT, SILT LOAMS	< 1.30	1.60					
SOIL LOAMS, SILTY CLAY LOAMS	< 1.10	1.55					
SANDY CLAYS, SILTY CLAYS, SOME CLAY LOAMS (35-45% CLAY)	< 1.10	1.49					
CLAYS (> 45% CLAY)	< 1.10	1.39					



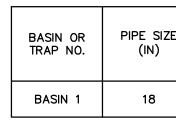
1.75

1.65

1.58

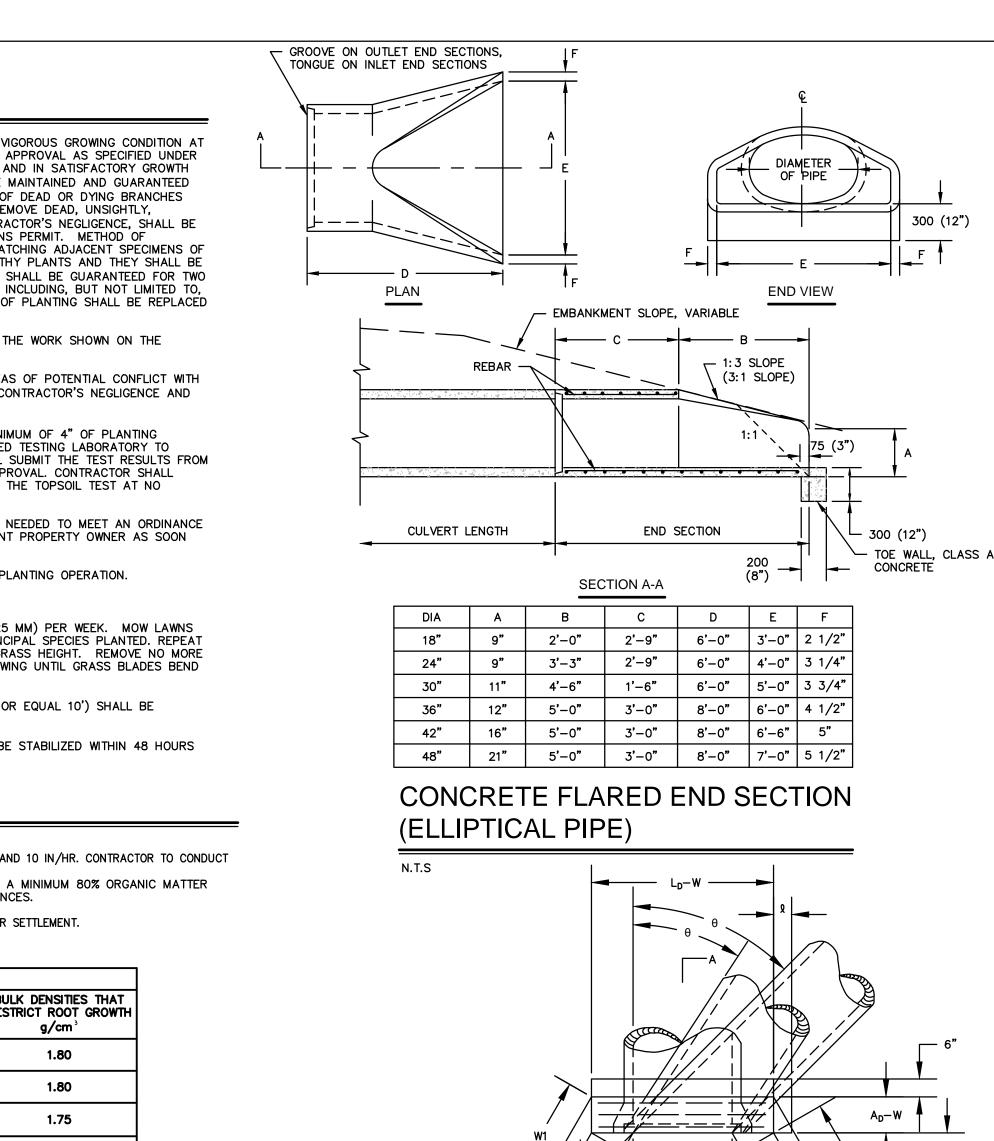
12" THICK (MIN.) CAST-IN-PLACE OF PRECAST CONCRETE COLLAR (MIN. 2000 PSI)

ALL COLLARS SHALL BE INSTALLED SO AS TO BE WATERTIGHT COLLAR SIZE AND SPACING SHALL BE AS INDICATED BELOW.



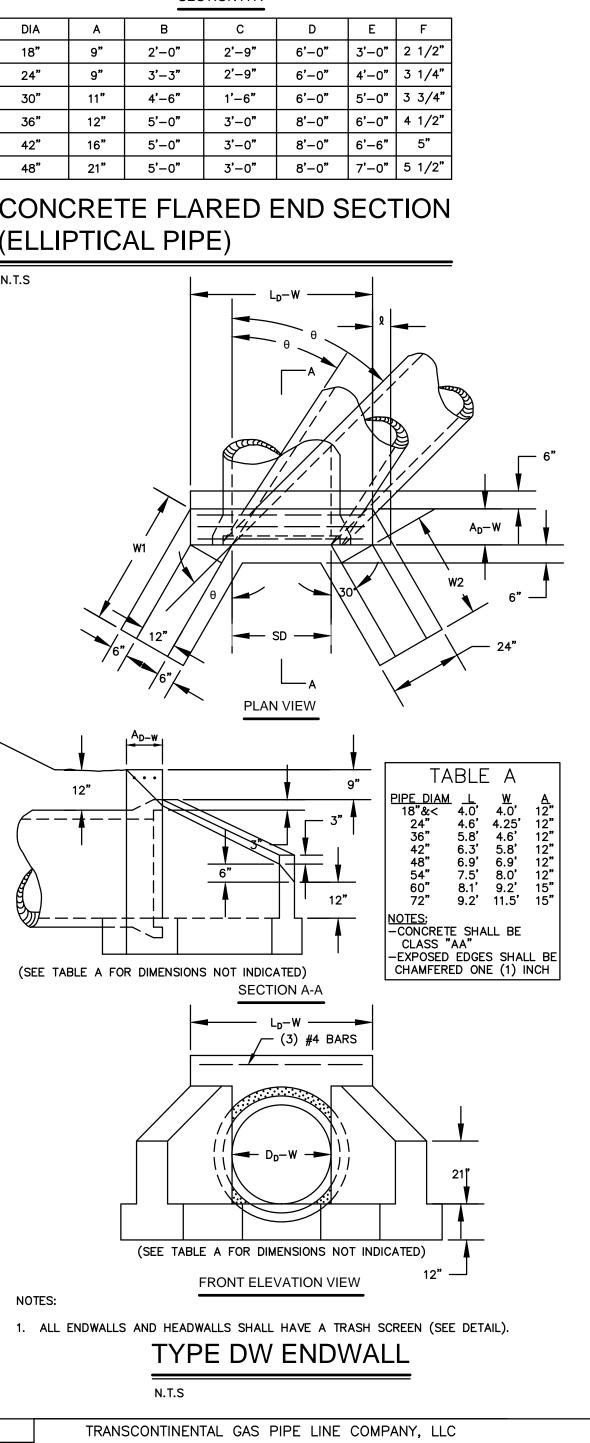
N.T.S

		REVISIONS			TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC								
ONWEAL	NO.	DATE	BY	DESCRIPTION	W.O. NO.	СНК.	APP.	ATLANTIC SUNF	RISE PR	OJECT- P	ROPOSED 42" NATURAL GAS PI	PELINE	
RECORDED	0	08/28/2015	BL	ISSUED FOR PADEP SUBMITTAL	W01161505	DAK	AJB	POST C	ONSTRU	ICTION STO	DRMWATER MANAGEMENT PLANS		
ACTA FROM ATT	1	12/02/2015	BL	ISSUED FOR PADEP RESUBMITTAL	W01161505	DAK	AJB						
ALARIC JAMES BUSHER	2	05/27/2016	BL	UPDATED PER BASIN SYSTEMS DESIGN COORDINATION	W01161505	i AJB	AJB		FO	R COMPRE	SSOR STATION 610		Villiams
Bally Extinces	3	Oct. 2016	BL	PADEP TECHNICAL DEFICIENCY RESPONSE #1	W01161505	AJB	AJB		TOWN		UMBIA COUNTY, PENNSYLVANIA		
Returner Returner	4	April 2017	BL	PADEP TECHNICAL DEFICIENCY RESPONSE #2	W01161505	AJB	AJB					Ĩ	
AVSYLV ADDIT	5	AUG. 2017	BL	PADEP TECHNICAL DEFICIENCY RESPONSE #3	W0116150	A.B	AJB		PCS	SM NOTES	AND DETAILS		
						-		DRAWN BY: AOE	DATE:	04/03/15	ISSUED FOR BID:	SCALE:	AS NOTED
ALARIC J. BUSHER REG NO. PE 60320								CHECKED BY: AJB	DATE:	04/03/15	ISSUED FOR CONSTRUCTION:	REVISION:	5
ARCHITECTURE ENGINEERING ENVIRONMENTAL LAND SURVEYING								APPROVED BY: AJB	DATE:	07/17/15	DRAWING NUMBER: (66-0610)F-1A-9		SHEET 4
Companies								WO: 116150	5				OF 7



	58	2	15	10
E	S (IN)	NO. OF COLLARS	DISTANCE RISER TO 1ST COLLAR (FT)	COLLAR SPACING (FT)

CONCRETE ANTI-SEEP COLLAR FOR PERMANENT BASINS OR TRAPS DETAIL PADEP-7-16



EARTH DISTURBANCE ACTIVITY -PAST, PRESENT, AND FUTURE LAND USES

THE LAND USES AND AQUATIC FEATURES FOUND WITHIN THE PROJECT AREA OCCUR ON MIXED HARDWOOD UPLAND FOREST, AND SHALLOW FORESTED WETLANDS. ACCORDING TO THE IMAGERY PROVIDED BY THE PENNSYLVANIA GEOLOGICAL SURVEY. THE LAND USES WITHIN THE PROJECT AREA REMAINED SIMILAR BETWEEN 1939 AND 1967. THE LAND USES ON THE 1939 AERIALS WERE PRIMARILY COMPOSED OF MIXED HARDWOOD UPLAND FOREST. FUTURE LAND USE WOULD INVOLVE THE INSTALLATION OF THE METER STATION PAD AND ACCESS ROADS.

THERMAL IMPACT ANALYSIS

IN ORDER TO PREVENT AN INCREASE IN STREAM TEMPERATURE, THIS SITE WILL INCORPORATE THE FOLLOWING BMP'S TO ADDRESS POTENTIAL THERMAL IMPACTS. GRAVEL WILL PRIMARILY BE USED IN LIEU OF ASPHALT FOR PAD CONSTRUCTION TO PREVENT THE COLLECTION AND SUBSEQUENT HEATING OF STORMWATER ON THE SURFACE OF THESE AREAS. THE RECEIVING WATERS FOR THE SITE ARE 1,500' ± FROM THE SITE. VEGETATED SWALE WITH CHECK DAMS AND AN INFILTRATION BASIN WILL BE PROVIDED TO CAPTURE AND AID IN THE INFILTRATION OF THE NET RUNOFF VOLUME INCREASE ASSOCIATED WITH THE TRANSITION FROM PRE-DEVELOPMENT CONDITIONS TO POST-DEVELOPMENT CONDITIONS.

THERMAL IMPACTS ASSOCIATED WITH CPL NORTH, CPL SOUTH, AND ASSOCIATED FACILITIES WILL BE AVOIDED TO THE MAXIMUM EXTENT PRACTICABLE. THE FOLLOWING PROVISIONS RELATED TO THERMAL IMPACTS ARE INCLUDED IN THE E&SC PLAN WITHIN SECTION 2 OF THE ESCGP-2 NOI:

- THE MINIMUM PERMANENT CHANGES IN LAND COVER, NECESSARY TO CONSTRUCT THE REQUIRED FACILITIES ARE BEING PROPOSED. • RUNOFF FROM THE PERMANENT IMPERVIOUS AREAS WILL BE COLLECTED AS PART OF THE POST CONSTRUCTION STORMWATER
- MANAGEMENT/SITE RESTORATION (PCSM/SR) PLAN AND ROUTED TO PCSM/SR BMPS. IN ADDITION, IMPERVIOUS AREAS WILL BE GRAVEL INSTÉAD OF ASPHALT WHEREVER PRACTICAL. • PCSM/SR BMPS INCORPORATE THE USE OF INFILTRATION FACILITIES SUCH AS BASINS AND VEGETATED SWALES WITH EARTHEN CHECK
- THE REMOVAL OF VEGETATION, ESPECIALLY TREE COVER, WILL BE LIMITED TO ONLY THAT NECESSARY FOR CONSTRUCTION. • THE AMOUNT OF IMPERVIOUS SURFACES WILL BE LIMITED TO ONLY THAT NECESSARY TO SUPPORT THE CONSTRUCTION OF THIS

CRITICAL STAGES OF CONSTRUCTION

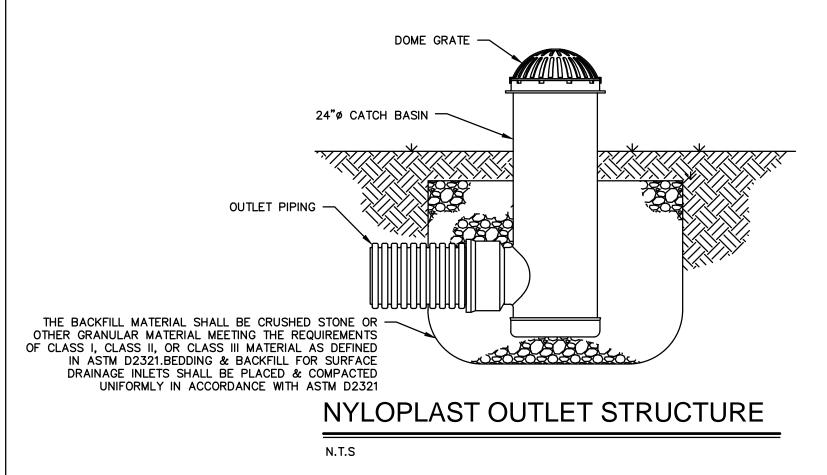
THE FOLLOWING ARE CRITICAL STAGES OF CONSTRUCTION:

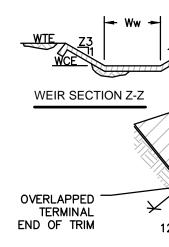
- 1. INSTALLATION OF SEDIMENT BASIN.
- 2. INSTALLATION OF VEGETATED SWALES AND CHECK DAMS.
- 3. CONVERSION SEDIMENT BASIN TO STORMWATER BASIN
- 4. LANDSCAPE RESTORATION.

FACILITY

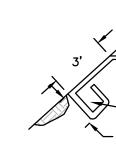
COMPRESSOR STATION SEQUENCE OF CONSTRUCTION

- 1. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, ENVIRONMENTAL INSPECTORS, 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.
- 2. 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. INSTALL ORANGE CONSTRUCTION FENCE AROUND AREAS TO BE PROTECTED. LOCATE STAGING AREAS AND ACCESS POINTS INCLUDING CONSTRUCTION ENTRANCES. FIELD LOCATE LIMITS OF DISTURBANCE.
- INSTALL ROCK CONSTRUCTION ENTRANCES (RCES).
- REMOVE BRUSH TO EFFECTIVELY INSTALL PERIMETER CONTROLS, LEVEL SIDE CUTS TO GRANT ACCESS FOR VEHICLES AND WORKERS TO SAFELY PERFORM THE INSTALLATION OF SEDIMENT BARRIERS ON THE SITE AS SHOWN ON THE CONSTRUCTION DRAWINGS. THE COMPLIANCE MANAGER SHALL PROVIDE PADEP AND CCD AT LEAST THREE DAYS' NOTICE PRIOR TO BULK EARTH DISTURBANCE AND UPON COMPLETED INSTALLATION OF PERIMETER EROSION CONTROLS.
- INSTALL COMPOST FILTER SOCK 2,3, AND 4. INSTALL SWALE 1, IMMEDIATLEY SEED AND STABILIZE. 9. * INSTALL SEDIMENT BASIN 1 BERM INCLUDING CLAY CORE, OUTFALL STRUCTURE, APRON, AND ANTISEEP COLLARS IMMEDIATELY AFTER INSTALLING COMPOST FILTER SOCK 2, 3 AND 4 AND PRIOR TO ANY OTHER DISTURBANCE ON SITE. EXCAVATE TEMPORARY SWALES TO ALLOW FOR THE DISCHARGE OF THE PAD CULVERTS INTO THE BASIN.
- 10. INSTALL CFS SEDIMENT TRAP 1. * INSTALL REMAINDER OF SEDIMENT BASIN 1 INCLUDING SLOPE LINERS, CLEANOUT STAKE, AND ASSOCIATED IMPROVEMENTS. INSTALL FILTER SOCK DIVERSIONS 1 AND 2 ONLY AFTER BASIN IS COMPLETED.
- 12. INSTALL VEGETATED ROADSIDE SWALES, CULVERTS AND RIPRAP OUTLET PROTECTION.
- 13. * INSTALL EARTHEN CHECK DAMS AND DRAINAGE CHANNEL APRONS AS SOON AS SWALE GRADING IS COMPLETE. 14. BEGIN CONSTRUCTION STAKING FOR GRADING.
- 15. BEGIN GRADING AND STRIP AND STOCKPILE TOPSOIL WITHIN THE AREA OF IMPROVEMENTS AND INSTALL SEDIMENT BARRIERS AROUND STOCKPILES.
- UPON TEMPORARY CESSATION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OF AN ACTIVITY WHERE THE CESSATION OF EARTH DISTURBANCE ACTIVITIES WILL EXCEED FOUR DAYS. THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED, OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION PENDING FUTURE EARTH DISTURBANCE ACTIVITIES. FOR AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OF AN ACTIVITY TO BE CONSIDERED TEMPORARILY STABILIZED. THE DISTURBED AREAS SHALL BE COVERED WITH ONE OF THE FOLLOWING: A MINIMUM UNIFORM COVERAGE OF MULCH AND SEED, WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION, OR AN ACCEPTABLE BMP WHICH TEMPORARILY MINIMIZES ACCELERATED EROSION AND SEDIMENTATION. TEMPORARY STABILIZATION WILL NOT OCCUR ON ACTIVE VEHICULAR TRAVEL WAYS WITHIN THE ROW. THE ON-SITE ENVIRONMENTAL INSPECTOR WILL LOG DAILY ACTIVITY WITHIN THE LOD AND NOTIFY THE CONTRACTOR OF AREAS REQUIRING TEMPORARY STABILIZATION (I.E., AREAS WHERE WORK HAS CEASED FOR AT LEAST FOUR DAYS)
- 17. GRADE THE COMPRESSOR STATION PADS AND ACCESS ROADS, INCLUDING STORMWATER RUNOFF CONVEYANCE FEATURES AS SHOWN ON THE E&SC AND PCSM/SR PLANS (SECTIONS 2 AND 3 OF THE ESCGP-2 NOI). 18. IMMEDIATELY STABILIZE SIDE SLOPES WITH EROSION CONTROL MATTING WHEN SLOPES ARE 3:1 OR GREATER. SEE PCSM/SR PLANS AND DETAIL SHEETS, AS PROVIDED IN SECTION 3 OF THE ESCGP-2 NOI, (PATTERNS DIFFER BY SLOPE CATEGORY). INSTALL RIP
- RAP SLOPE STABILIZATION WHERE SHOWN ON THE PCSM/SR PLANS. 19. REMOVE FSD 2. MAINTAIN DRAINAGE TO THE SEDIMENT BASIN WHILE PLACING FILL
- 20. CONSTRUCT FACILITY INCLUDING ACCESS ROADS. ESTABLISH FINAL GRADE.
- 22. SPREAD TOPSOIL. 23. SURFACE STABILIZATION, APPLY PERMANENT STABILIZATION MEASURES IMMEDIATELY TO ANY DISTURBED AREAS WHERE WORK HAS REACHED FINAL GRADE. 24. UPON COMPLETION OF ALL EARTHWORK ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR
- OPERATORS SHALL CONTACT THE LOCAL CCD FOR AN INSPECTION PRIOR TO THE REMOVAL/CONVERSION OF THE E&SC BMPS. 25. * REMOVE COMPOST FILTER SOCK SEDIMENT TRAP AND IMMEDIATELY SEED AND STABILIZE LANDSCAPE RESTORATION AREAS. 26. * INSTALL VEGETATED SWALE 3. REMOVE FSD 1. 27. * AFTER ALL UPSLOPE DISTURBED AREAS ARE STABILIZED, REMOVE ACCUMULATED SEDIMENTS AND RAISE BASIN BOTTOM TO FINAL GRADE, CONVERT SEDIMENT BASIN TO PROPOSED INFILTRATION BASIN, INCLUDING CONSTRUCTION OF BERM, BERM DIVERSION PIPING, LEVEL SPREADER AND INFILTRATION AREA LOCATED WITHIN DRIVE ISLAND AND PLACE ENGINEERED SOIL. REMOVE TEMPORARY
- SKIMMER FROM PERMANENT OUTLET STRUCTURE AND INSTALL WATERTIGHT PLUG IN ORIFICE. REMOVE TEMPORARY PLATE OVER PERMANENT ORIFICE IN OUTLET STRUCTURE AND INSTALL TOP GRATE. ALL MATERIAL REMOVED FROM TEMPORARY BASINS, TRAPS AND INFILTRATION BERMS TO BE REMOVED FROM SITE. AFTER FINISH GRADING AND TOPSOIL PLACEMENT IS COMPLETED, DISTURBED AREAS SHALL BE FERTILIZED, SEEDED, AND MULCHED. SEED MIXTURES, FERTILIZER AND MULCH APPLICATIONS RATES AND DATES SHALL CONFORM TO THE TABLES PROVIDED ON THE PCSM/SR PLANS AND DETAIL SHEETS (SECTION 3 OF THE ESCGP-2 NOI), LAND OWNER AGREEMENTS AND/OR THE ECP (SECTION 4
- OF THE ESCGP-2 NOI). 30. AFTER SEEDING, FERTILIZING AND MULCHING IS COMPLETE, INSTALL ECBS AS REQUIRED OR ORDERED OR ON SLOPES OF 3:1 OR GREATER.
- AFTER THE SITE IS PERMANENTLY STABILIZED AND UPON PADEP OR LOCAL CCD AND OWNER APPROVAL OF STABILIZATION AND RE-VEGETATION, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND STABILIZE AREAS DISTURBED BY REMOVAL. COMPLETE SITE STABILIZATION. INCLUDING SEED APPLICATION, ECB AND MULCHING. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER
- AND/OR OPERATORS SHALL CONTACT THE LOCAL CCD FOR A FINAL INSPECTION. MAINTAIN E&SC BMPS UNTIL SITE WORK IS COMPLETE AND UNIFORM 70% PERENNIAL VEGETATIVE COVER IS ESTABLISHED. 35. REMOVE AND PROPERLY DISPOSE/RECYCLE E&SC BMPS. REMOVE ORANGE CONSTRUCTION FENCE. REPAIR AND PERMANENTLY STABILIZE AREAS DISTURBED DURING E&SC BMP REMOVAL UPON ESTABLISHMENT OF UNIFORM 70% VEGETATIVE COVER.

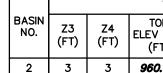




KEY TRENCH AT TOE OF SLOPE OF SPILLWAY



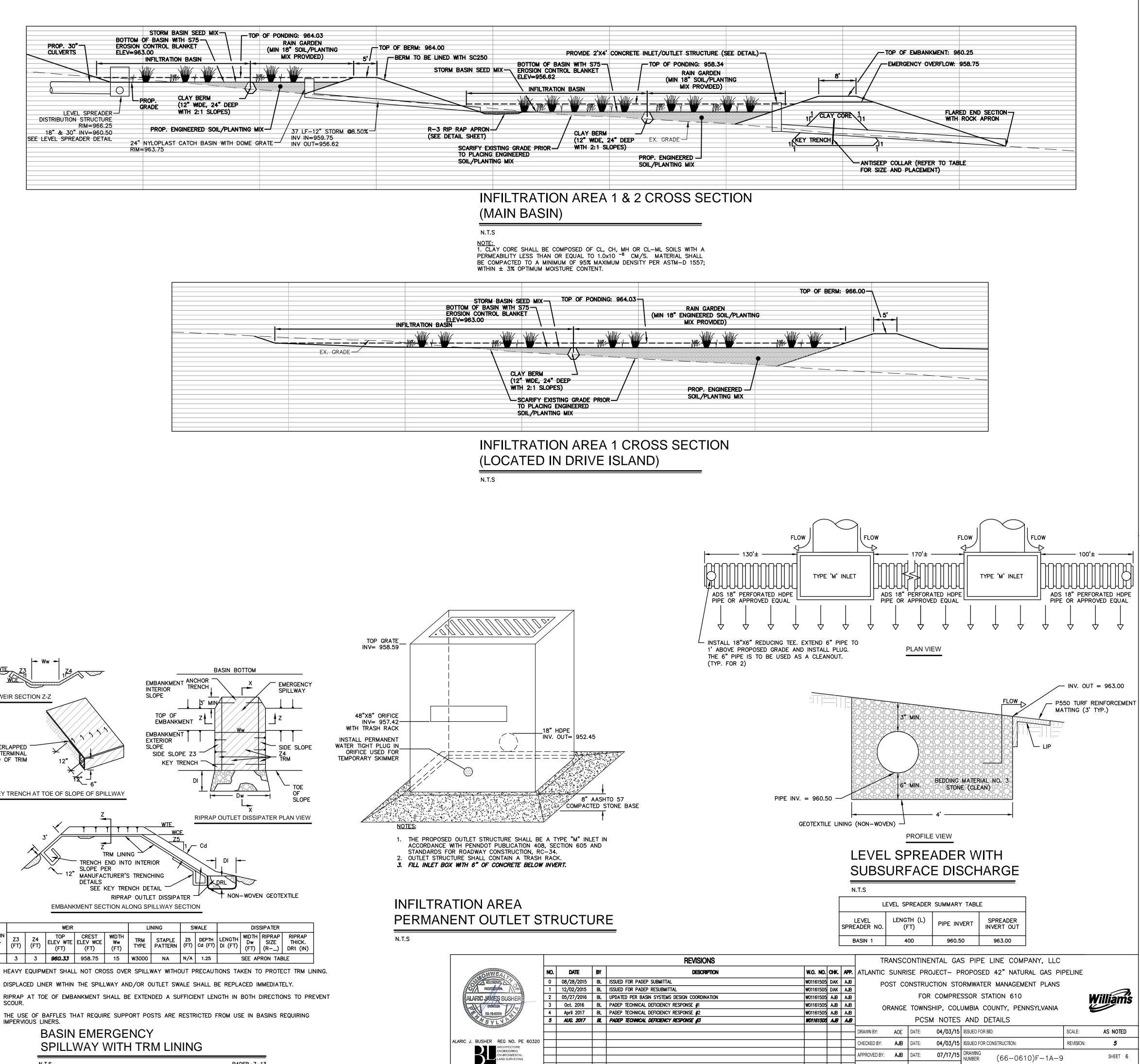




SCOUR IMPERVIOUS LINERS.

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