

CONSTITUTION PIPELINE COMPANY, LLC  
PROPOSED 30" NATURAL GAS PIPELINE

EROSION AND SEDIMENT CONTROL &  
LAYOUT PLANS  
FOR  
WEST FALL METER STATION &  
ASSOCIATED PERMANENT ACCESS ROAD PAR-76

WRIGHT TOWNSHIP  
SCHOHARIE COUNTY

NEW YORK

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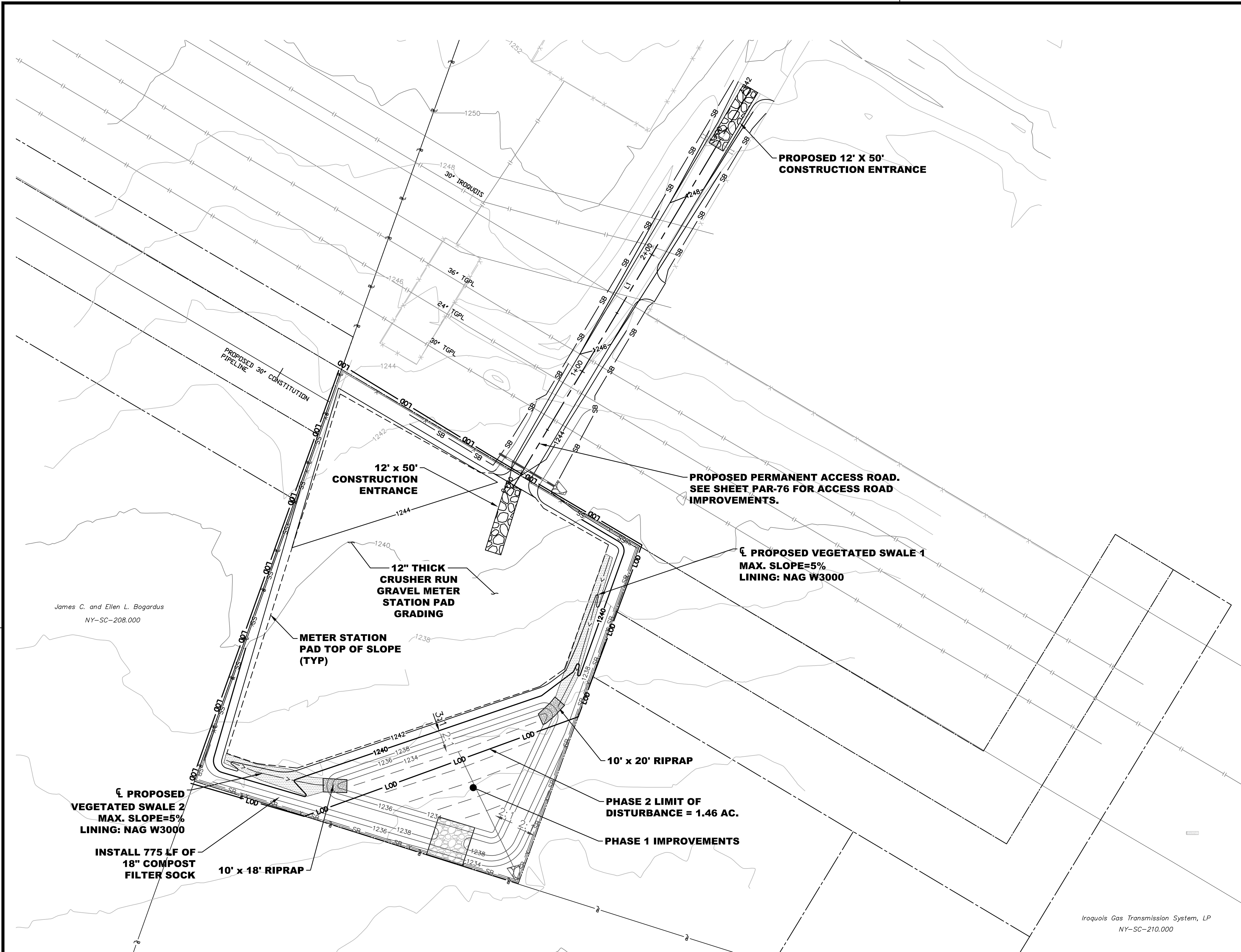
ARCHITECTURE ENGINEERING ENVIRONMENTAL LAND SURVEYING		NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: JES/BOK	DATE: 7/14/2014	ISSUED FOR BID:	SCALE: AS NOTED
		1.	07/21/14		ISSUED FOR BID				CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
									APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-70/MSW-CV	SHEET 1 OF 8
									W.O.:			

CONSTITUTION PIPELINE COMPANY, LLC  
PROPOSED 30" NATURAL GAS PIPELINE  
EROSION AND SEDIMENT CONTROL & LAYOUT PLANS  
FOR WEST FALL METER STATION  
& ACCESS ROAD PAR-76  
WRIGHT TOWNSHIP, SCHOHARIE COUNTY, NEW YORK  
COVER SHEET









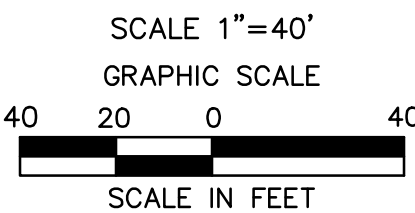
LEGEND

EXISTING FEATURES

- PROPERTY BOUNDARY LINE (APPROXIMATE)
- EASEMENT LINE (APPROXIMATE)
- MAJOR CONTOUR (10' INTERVAL)
- MINOR CONTOUR (2' INTERVAL)
- FENCE
- STONE ROW
- GAS MAIN
- TREELINE
- CENTERLINE STREAM/EDGE WATERBODY
- DELINEATED WETLANDS
- SPOT ELEVATION
- TREE OR BUSH
- UTILITY POLE
- GUY POLE
- GUY POLE OR ANCHOR
- POST
- SIGN
- WATER WELL
- UTILITY BOX
- MONUMENT (PROPERTY BOUNDARY MARKER)
- IRON PIPE OR PIN (PROPERTY BOUNDARY MARKER)

PROPOSED FEATURES

- MAJOR CONTOUR (10' INTERVAL)
- MINOR CONTOUR (2' INTERVAL)
- LIMIT OF DISTURBANCE
- COMPOST FILTER SOCK
- SILT FENCE
- ORANGE CONSTRUCTION FENCE
- BREAKLINE
- CENTERLINE CONSTITUTION PIPELINE (APPROXIMATE, BY OTHERS)
- ACCESS ROAD



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FOR WEST FALL METER STATION  
& ACCESS ROAD PAR-76  
WRIGHT TOWNSHIP, SCHOHARIE COUNTY, NEW YORK  
SOIL EROSION & SEDIMENT CONTROL PLAN-PHASE 2



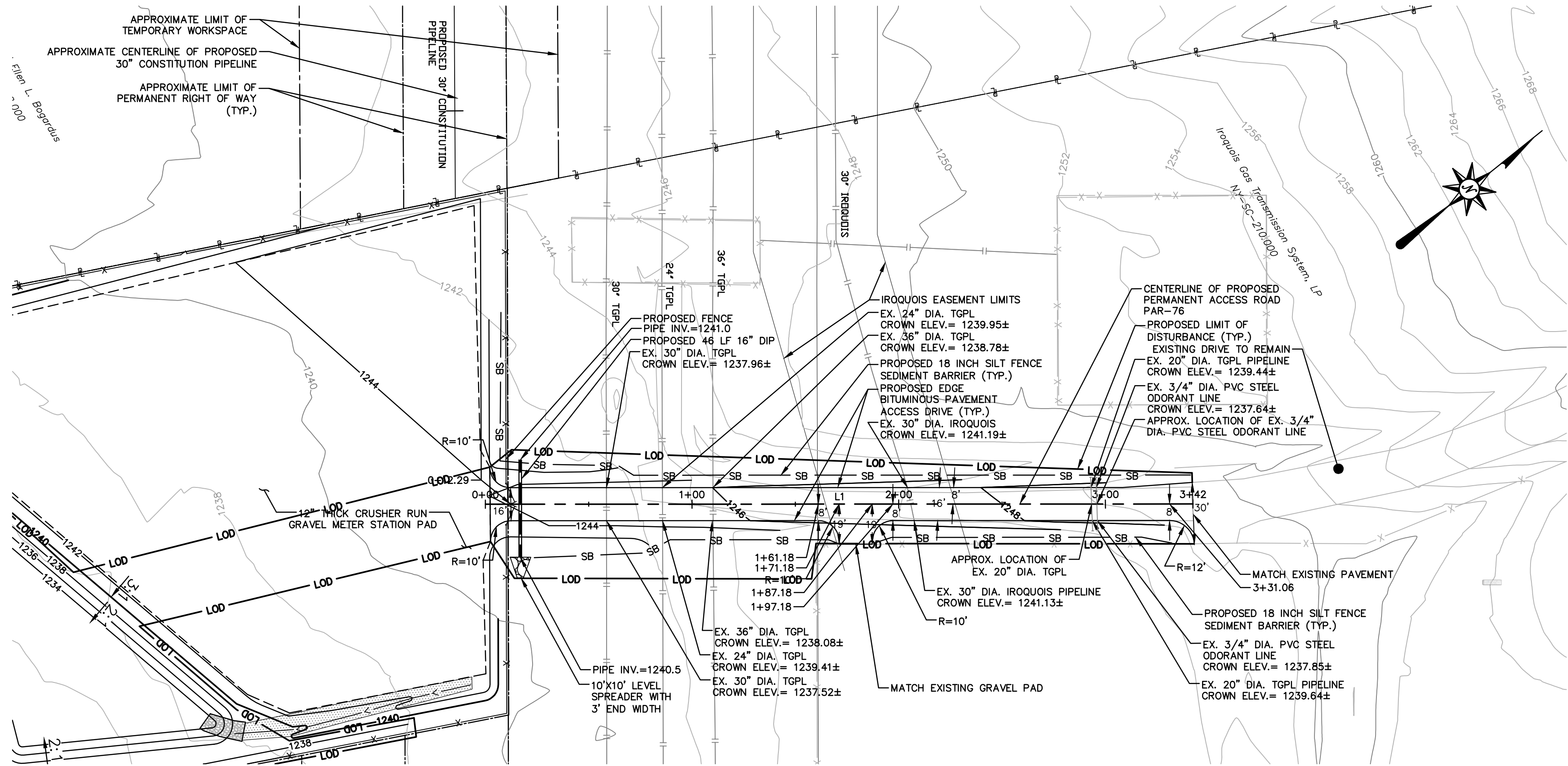
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ARCHITECTURE  
ENGINEERING  
ENVIRONMENTAL  
LAND SURVEYING



NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: JES/BDK	DATE: 7/14/2014	ISSUED FOR BID:	SCALE: 1"=40'
1.	07/21/14		ISSUED FOR BID				CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
							APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/MSW-1.2	SHEET 3 OF 8
							W.O.:			



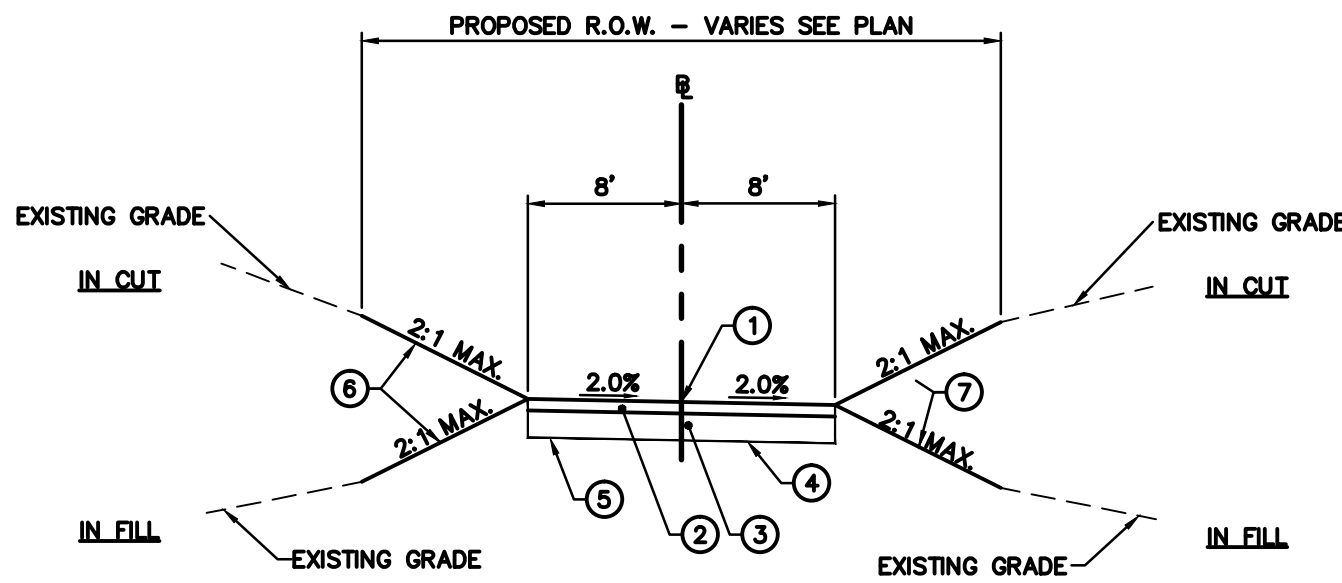


## GENERAL NOTES

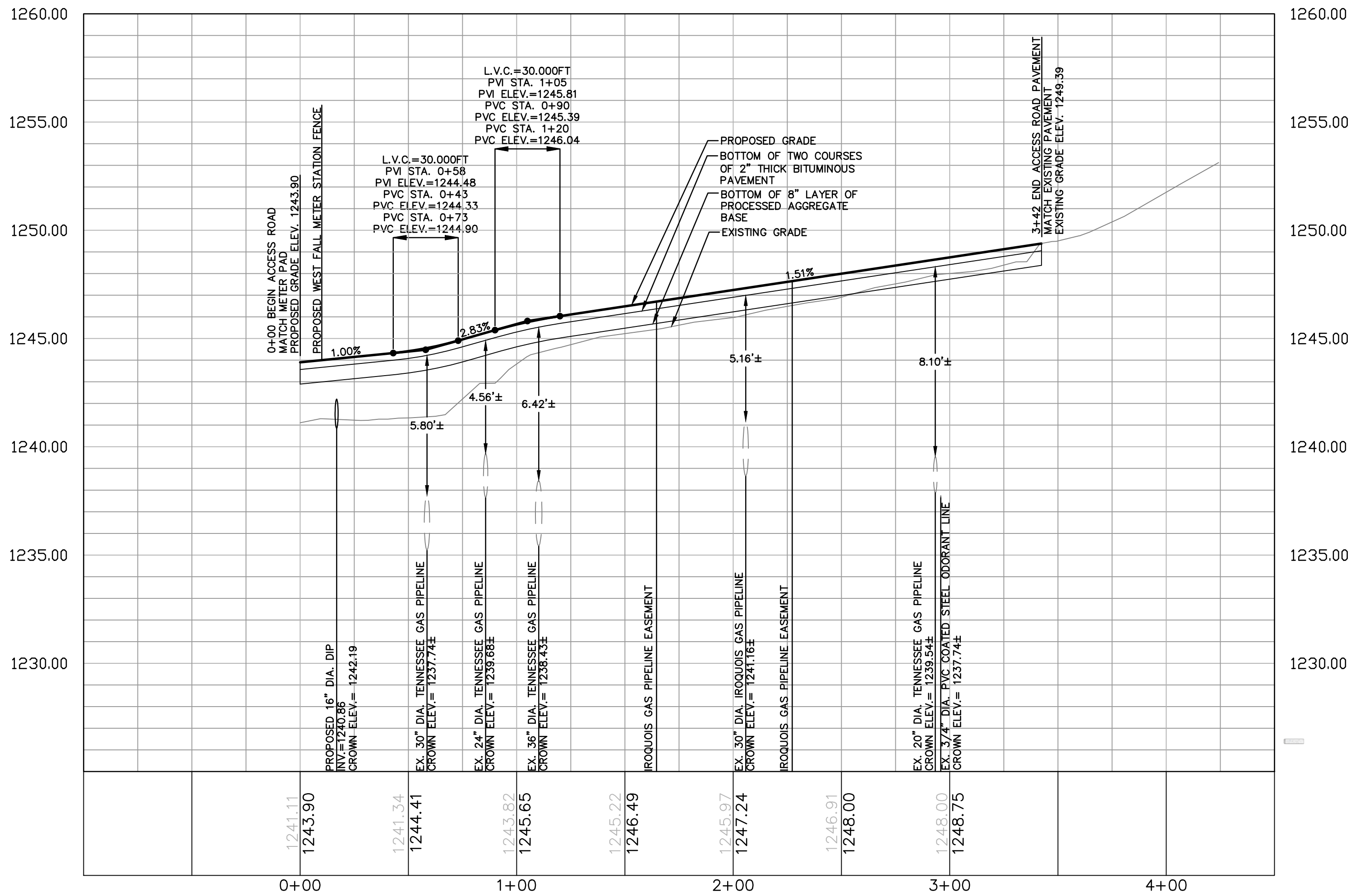
1. REFER DRAWING NUMBER 34-0200 MP144001 FOR THE WESTFALL METER STATION PIPING AND ASSOCIATED APPURTENANCES DESIGN AND LAYOUT.
2. CHECK DAMS SHALL BE INSTALLED WITHIN ALL SWALES IN ACCORDANCE WITH THE CHECK DAM BEST MANAGEMENT PRACTICE DETAIL.
3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY CONSTITUTION AND/OR ITS ENGINEER OF ANY CONDITIONS THAT VARY FROM WHAT IS DEPICTED ON THIS PLAN.
4. THE CONTRACTOR SHALL CONTACT CALL BEFORE YOU DIG A MINIMUM OF 72 HOURS PRIOR TO BEGINNING CONSTRUCTION.
5. ALL SLOPES THAT ARE EQUAL TO OR STEEPER THAN 1(V):3(H) SHALL BE SEEDED AND THEN COVERED WITH EROSION CONTROL MATTING. THE MATTING SHALL BE OR APPROVED EQUAL AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
6. ALL SLOPES THAT ARE STEEPER THAN 1(V):2(H) SHALL BE COVERED WITH RIPRAP SLOPE PROTECTION. SEE SLOPE PROTECTION DETAIL FOR INSTALLATION GUIDELINES.
7. TEST HOLE INFORMATION FOR TENNESSEE GAS PIPELINE AND IROQUOIS SURVEYED BY CONSTITUTION ON JULY 1, 2014.
8. DESIGN PLANS PENDING REVIEW BY TENNESSEE GAS PIPELINE (TGPL) AND IROQUOIS.

## TYPICAL SECTION LEGEND

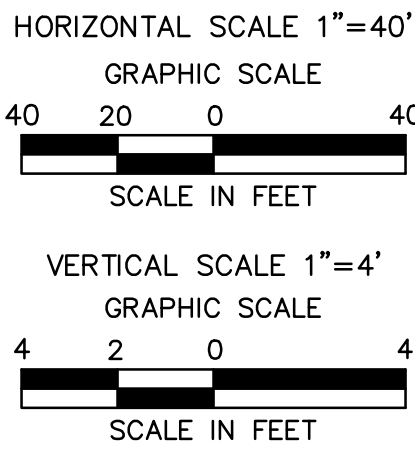
- ① CENTERLINE OF ACCESS ROAD
- ② 2 COURSES OF 2" THICK BITUMINOUS PAVEMENT
- ③ 8" PROCESSED AGGREGATE
- ④ FILTER FABRIC
- ⑤ UNDISTURBED GROUND IN CUTS/SUBBASE IN FILLS
- ⑥ EROSION CONTROL BLANKET
- ⑦ TOPSOIL AND SEED



TYPICAL SECTION STA. 0+00 TO 3+42



West Fall Meter Station Access Road						
No.	Northing	Eastng	Bearing	Delta(Δ)	Length	Tangent
L1	B 15510030.19 E 15510324.31	B 1846259.46 E 1846434.71	N30°47'13.43"E		342.37'	



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FOR WEST FALL METER STATION  
& ACCESS ROAD PAR-76  
WRIGHT TOWNSHIP, SCHOHARIE COUNTY, NEW YORK  
PERMANENT ACCESS ROAD PAR-76 @ MP124.46



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ARCHITECTURE  
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ENVIRONMENTAL  
LAND SURVEYING



NO.	DATE	BY	REVISION DESCRIPTION	W.D. NO.	CHK.	APP.	DRAWN BY: JES/BDK	DATE: 7/14/2014	ISSUED FOR BID:	SCALE: 1"=40'
1.	07/21/14		ISSUED FOR BID				CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
							APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-76	SHEET 4 OF 8
							W.D.			



SEQUENCE OF BMP INSTALLATION AND REMOVAL NOTES

CONSTRUCTION MUST BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE. THIS SCHEDULE IS DESIGNED TO MINIMIZE SOIL EROSION AND SEDIMENTATION. THE CONTRACTOR MAY DEVIATE SLIGHTLY FROM THE STAGING OF PERMANENT SITE IMPROVEMENTS, BUT NO DEVIATION FROM THE RELATIVE ORDER OF EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM LOCAL CONSERVATION DISTRICT (LCD) OR NYSDEC.

FACILITIES TO CONTROL THE TRANSPORT OF SOIL MATERIAL FROM THE CONSTRUCTION AREA SHALL BE INSTALLED PRIOR TO ANY EARTH DISTURBANCE.

NOTE: THE STAGING OF EARTHMOVING ACTIVITIES FOR THIS PROJECT IS A GENERAL DESCRIPTION OF THE WORK REQUIRED. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH PROJECT OWNER STANDARDS, THE NYSDEC REGULATIONS, AND ALL OTHER APPLICABLE FEDERAL, STATE OR LOCAL REQUIREMENTS.

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED (EXCEPT AS INDICATED BELOW). DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT /DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC). CLEARING & GRUBBING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE.

- SCHEDULE WORK TO MINIMIZE THE LENGTH OF TIME THAT BARE SOIL WILL BE EXPOSED TO THE ELEMENTS.
- FOLLOW THE CONSTRUCTION/EROSION CONTROL IMPLEMENTATION PLAN AS OUTLINED ON THE DRAWINGS.
- IMPLEMENT CONTROL MEASURES AS SPECIFIED; HOWEVER, THE CONTRACTOR MAY INSERT ADDITIONAL CONSTRUCTION PHASES IN ORDER TO EXPEDITE HIS WORK.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BMPs TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LCD/NYSDEC.
- ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL COUNTY CONSERVATION DISTRICT OR NYSDEC FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXCESS MATERIAL AND TO DEVELOP A PLAN THAT MEETS THE CONDITIONS OF CHAPTER 102, NPDES PERMIT CONDITIONS, AND/OR OTHER STATE AND FEDERAL REGULATIONS.
- CONSTRUCTION SEQUENCE IS AS FOLLOWS:
- PHASE 1:PRE-CONSTRUCTION MEETING TO BE HELD BY PROJECT MANAGER, A REPRESENTATIVE FROM SCCD/DEP, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) (IF REQUIRED BY PERMIT CONDITIONS), ALL CONTRACTORS INVOLVED IN EARTH DISTURBANCE ACTIVITIES, AND THE OPERATOR'S ENGINEER PRIOR TO LAND DISTURBING ACTIVITIES. PROVIDE THE REQUIRED 7 DAY NOTICE FOR SCHEDULING OF THE PRE-CONSTRUCTION MEETING. ALL PARTIES LISTED ARE REQUIRED TO ATTEND.
- CONTRACTOR TO INSTALL TEMPORARY CONSTRUCTION FENCE, TEMPORARY CONSTRUCTION ENTRANCE AND COMPOST FILTER SOCKS AROUND PERIMETER OF METER STATION PAD AND ACCESS ROAD.
- CONTRACTOR TO BEGIN CLEARING AND GRUBBING OF METER STATION PAD AND ACCESS ROAD, STOCKPILE CHIPS, STOCKPILE TOPSOIL.
- CONTRACTOR TO BEGIN ROUGH GRADING OF METER STATION PAD AND ACCESS ROAD.
- REMOVE SEDIMENT FROM BEHIND COMPOST FILTER SILT SOCK, AS REQUIRED. REMOVAL SHALL BE ON A PERIODIC BASIS (EVERY SIGNIFICANT RAINFALL) OR AS NECESSARY TO ENSURE PROPER FUNCTION OF THE FILTER SOCK. INSPECTION OF EROSION CONTROL MEASURES SHALL BE ON A WEEKLY BASIS. SEDIMENT COLLECTED SHALL BE DEPOSITED AND SPREAD EVENLY UPLAND ON SLOPES DURING CONSTRUCTION.
- CONTRACTOR TO BEGIN ERECTING PIPING EQUIPMENT.
- CONTRACTOR TO PAVE ACCESS ROAD AND STABILIZE METER PAD WITH GRAVEL.
- INSTALL EROSION CONTROL BLANKETS IN CONJUNCTION WITH INSTALLATION OF PIPE ON STEEP SLOPES.
- IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE LONGER THAN 4 DAYS IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS.
- PHASE 2: CONTRACTOR TO COMPLETE METER PAD AND STABILIZE WITH GRAVEL AND INSTALL DETENTION BASIN, DIVERSION SWALES AND PIPING.
- 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.
- PLACE 4" MINIMUM TOPSOIL ON SLOPES AFTER FINAL GRADING IS COMPLETED. FERTILIZE SEED AND MULCH. SEED MIXTURE TO BE INSTALLED APRIL 1- JUNE 1 OR SEPTEMBER 1 - NOVEMBER 30. FOR TEMPORARY STABILIZATION BEYOND SEEDING DATES USE ANNUAL RYE AT 10.0 LBS./1,000 S.Y. IN ACCORDANCE WITH THE ECP DEVELOPED FOR THE PROJECT FOR CONSTRUCTION IN AREAS OF KARST.
- ALL AREAS THAT HAVE BEEN DISTURBED WHICH HAVE REACHED FINAL GRADE SHALL BE PERMANENTLY STABILIZED.
- REMOVE SILT SOCKS AFTER ALL EXPOSED SURFACES ARE STABILIZED. REMOVE TEMPORARY CONSTRUCTION FENCING.
- AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 80% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.

STANDARD EROSION & SEDIMENTATION CONTROL PLAN NOTES (CONT.)

- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL.
- ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
- 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.
- A LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
- SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEP INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
- AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES --- 6 TO 12 INCHES ON COMPACTED SOILS --- PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
- ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE NY ECP STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 15 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
- IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
- PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 80% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
- E&S BMPs SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
- 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.
- 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.
- 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.
- 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.
- EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 15 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.

GENERAL EROSION & SEDIMENT CONTROL NOTES

- AT MINIMUM, ALL BMPs ARE TO BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. A WRITTEN REPORT MUST ALSO BE COMPLETED, DOCUMENTING EACH INSPECTION AND, IF NECESSARY, ANY REPAIR, REPLACEMENT OR MAINTENANCE ACTIVITY.
- INSPECT SNOW PLACEMENT AREAS DURING THE THAW CYCLE. INSTALL EROSION & SEDIMENT CONTROL BMPs DURING QUICK THAWS AND WHEN SNOW MELT RUNOFF IS CONCENTRATED OR IS CAUSING EROSION.
- DISCHARGING SEDIMENT LADEN WATER WHICH WILL CAUSE OR CONTRIBUTE TO THE DEGRADATION OF A BENEFICIAL USE OF A WATER OF THE STATE FROM THE CONSTRUCTION SITE, A DEWATERING SITE, OR SEDIMENT BASIN/TRAP INTO ANY WATER BODY OR STORM DRAIN WITHOUT FILTRATION OR EQUIVALENT TREATMENT IS PROHIBITED.
- DISCHARGES ORIGINATING FROM OFF-SITE SOURCES, WHICH FLOW THROUGH OR ACROSS THE AREAS DISTURBED BY CONSTRUCTION, SHALL BE DIVERTED AROUND THE ACTIVE CONSTRUCTION AREA WHENEVER POSSIBLE.
- STAGING AREAS, ASSEMBLY AREAS, TEMPORARY EQUIPMENT AND NON-HAZARDOUS MATERIAL STORAGE AREAS SHALL BE LOCATED OUTSIDE THE 100-YR FLOOD ZONE. HAZARDOUS MATERIAL STORAGE AREAS SHALL BE LOCATED AT LEAST 100 FEET BACK FROM SURFACE WATER BODIES.
- ALL EXCAVATED MATERIALS THAT WILL NOT BE USED ON THE SITE CANNOT BE STORED IN THE FLOODPLAIN AND MUST BE HAULED TO A DISPOSAL SITE LOCATED OUTSIDE OF THE FLOODPLAIN.
- CONSTRUCTION STAGING AREAS SHALL BE LOCATED A MINIMUM OF 50 FEET AWAY FROM THE EDGE OF A WETLAND.
- MEASURES SHALL BE TAKEN TO PREVENT TRENCHES FROM DRAINING A WETLAND OR CHANGING ITS HYDROLOGY.
- IT IS DESIRED THAT THE AMOUNT AND DURATION OF OPEN TRENCH BE MINIMIZED DURING THE PROJECT.
- IF TOPSOIL PILES ARE EXPOSED FOR GREATER THAN 4 DAYS, THEY SHALL BE SEEDED WITH AN ANNUAL SEED MIXTURE AND MULCHED WITH STRAW AS SPECIFIED BY THE PROJECT OWNER.

INTERIM AND PERMANENT STABILIZATION

- INTERIM STABILIZATION  
TEMPORARY SEEDING WITH MULCH COVER FOR INTERIM STABILIZATION IS A TYPE OF BMP THAT CAN USUALLY BE PROVIDED WHERE THE EARTH DISTURBANCE ACTIVITY TEMPORARILY CEASES (I.E. 4 DAYS OR MORE) UNLESS DIRECTED BY THE PROJECT OWNER.  
  
THE INSTALLATION OF AN EROSION CONTROL BLANKET OR APPLICATION OF MULCH UPON SEEDED AREAS ARE BOTH CONSIDERED TO BE INTERIM STABILIZATION BMPs TO PROTECT THE SEEDED UNTIL VEGETATION IS ESTABLISHED.
- PERMANENT STABILIZATION  
UPON COMPLETION OF ANY EARTH DISTURBANCE ACTIVITY, THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED, OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION.  
  
THE INSTALLATION OF PAVEMENT, ROCK RIP RAP, OR GABIONS ARE SOME EXAMPLES OF STABILIZATION. THE STANDARD FOR VEGETATIVE COVER AS STABILIZATION IS PERENNIAL VEGETATION THAT IS ESTABLISHED WITH A UNIFORM COVERAGE DENSITY OF 80% ACROSS THE DISTURBED AREA. THE APPLICATION OF LIME, FERTILIZERS, SEED, AND MULCH IS USUALLY DONE TO ACHIEVE PERMANENT STABILIZATION. THE MULCH IS CONSIDERED TO BE AN INTERIM STABILIZATION MEASURE TO ASSIST IN THE ESTABLISHMENT OF THE PERMANENT VEGETATIVE COVER.
- STABILIZATION DURING NON-GROWING SEASONS  
  
WHEN UTILITY CONSTRUCTION MUST BE DONE AND IS COMPLETED DURING A NON-GROWING SEASON, INTERIM STABILIZATION BMPs MUST BE IMPLEMENTED AND ADEQUATELY MAINTAINED. THE APPLICATION OF STRAW MULCH AT THE RATE OF 2.0 TONS PER ACRE IS RECOMMENDED. THE BMPs SHOULD BE INSPECTED WEEKLY (UNLESS SNOW COVERED) TO IDENTIFY AREAS THAT BECOME BARE.  
  
BARE AREAS SHOULD BE COVERED WITH A PROPERLY INSTALLED EROSION CONTROL BLANKET. ALL TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROLS MUST BE MAINTAINED UNTIL PERENNIAL VEGETATION IS ESTABLISHED.
- WHERE REQUIRED, HAY OR STRAW MULCH MUST BE APPLIED AT A MINIMUM OF 2.0 TONS PER ACRE.
- STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT FINELY CHOPPED OR BROKEN.
- PRIOR TO ANY SEEDING, LIME, OR FERTILIZATION APPLICATION, A SOIL TEST SHALL BE PERFORMED TO DETERMINE THE pH FACTOR. ADDITIONAL LIME AND FERTILIZER MAY BE REQUIRED. NO LIME OR FERTILIZERS SHALL BE USED IN WETLAND AREAS.
- LIME, FERTILIZE, SEED, AND MULCH DISTURBED AREAS PER THE EROSION AND SEDIMENT CONTROL PLANS. IN AREAS OF STEEP SLOPES OR OBVIOUS AREAS WHERE POTENTIAL EROSION MAY OCCUR, AND EROSION CONTROL MAT OR FLEXIBLE GROWTH MEDIUM (FGM) SHALL BE USED. FGM SHALL BE APPLIED PER MANUFACTURER SPECIFICATIONS. NO LIME OR FERTILIZERS SHALL BE USED IN WETLAND OR STREAM AREAS.
- WEST FALL METER SECTION IS LOCATED IN A KNOWN KARST AREA. ALL FERTILIZERS, HERBICIDES, PESTICIDES, OR OTHER CHEMICALS ARE TO BE APPLIED NO CLOSER THAN 200 FEET FROM SINKHOLES, WATERBODIES, SPRINGS, AND CAVE OPENINGS. REFER TO THE PROJECT NY ECP SECTION 5.27 FOR ALL OTHER KARST AREA PROCEDURES AND MEASURES.


STANDARD EROSION & SEDIMENTATION CONTROL PLAN NOTES

- ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- AT LEAST 7 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING, 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 NYSDEC TO AN ON-SITE PRE-CONSTRUCTION MEETING.
- AT LEAST 72 HOURS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE CONTRACTOR SHALL CONTACT 811 DIG SAFELY NEW YORK (1-800-962-7962) FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE NYSDEC PRIOR TO IMPLEMENTATION.
- AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
- CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPs SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
- AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
- TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAPS(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE NYSDEC.
- ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL AUTHORITY OR THE NYSDEC AND FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.

NOTICES TO CONTRACTOR

- THE CONTRACTOR SHALL VERIFY AND ADHERE TO ALL REQUIRED PERMITS PRIOR TO STARTING WORK.
- THE CONTRACTOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED.
- CONTRACTOR SHALL VERIFY ACTIVE AGRICULTURAL/FARM FIELDS DURING CONSTRUCTION. IF AN ACTIVE AGRICULTURAL/FARM FIELD IS IDENTIFIED, EROSION CONTROL MATTING CAN BE LIMITED/REDUCED TO AVOID THE AGRICULTURAL/FARM FIELD.
- WATERBARS IN AGRICULTURAL/FARM FIELDS MAY BE TEMPORARY AT THE REQUEST OF THE SURFACE LANDOWNER AND BE REMOVED AND RESTABILIZED UPON ESTABLISHMENT OF 80 PERCENT PERMANENT VEGETATIVE COVER WITHIN THE UPSLOPE TRIBUTARY DRAINAGE AREA.
- ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE COORDINATED WITH THE AGENCY HAVING JURISDICTION.
- FURNISH & INSTALL SWALES WHENEVER CONCENTRATED FLOWS HAVE THE POTENTIAL TO RUN ONTO OR THROUGH THE CONSTRUCTION AREA. DIRECT THE SWALE DISCHARGE TO A RIP RAP ENERGY DISSIPATER AND VEGETATED AREA.

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CONSTITUTION PIPELINE COMPANY, LLC  
PROPOSED 30" NATURAL GAS PIPELINE  
EROSION AND SEDIMENT CONTROL & LAYOUT PLANS  
FOR WEST FALL METER STATION  
& ACCESS ROAD PAR-76  
WRIGHT TOWNSHIP, SCHOHARIE COUNTY, NEW YORK  
SOIL EROSION & SEDIMENT CONTROL NOTES 1 OF 3





GENERAL SEEDING NOTES

1. IN NON-AGRICULTURAL AREAS, PREPARE A FIRM SEEDBED IN DISTURBED AREAS TO A DEPTH OF THREE (3) TO FOUR (4) INCHES USING APPROPRIATE EQUIPMENT. THE SEEDBED SHALL BE SCARIFIED IN AREAS TO BE HYDRO SEEDED TO FACILITATE LODGING AND GERMINATION OF SEED.
2. SEED DISTURBED AREAS IN ACCORDANCE WITH WRITTEN RECOMMENDATIONS FOR SEED MIXES, RATES, AND DATES AS DETAILED IN ECP ATTACHMENT 7 – SEEDING, FERTILIZER AND LIME RECOMMENDATIONS OR THE REVEGETATION/SEED MIXTURES PLAN UNLESS A SPECIFIC WRITTEN REQUEST IS MADE BY A LANDOWNER, LAND MANAGEMENT AGENCY OR APPLICABLE PERMITTING AGENCY FOR AGRICULTURAL LANDS ONLY. SEEDING SHALL NOT BE CONDUCTED IN ACTIVELY CULTIVATED CROPLANDS UNLESS REQUESTED IN WRITING BY THE LANDOWNER. PERMANENT SEEDING, CONSISTENT WITH THE IMPACTED FIELD'S SPECIFIC REQUIREMENTS, SHALL BE APPLIED IN LONG-TERM AND ROTATION HAYFIELDS AND PASTURES, AS WELL AS AGRICULTURAL CONSERVATION RESERVE PROGRAM (CRP) LANDS.
3. CONSTITUTION HAS PREPARED A WINTER CONSTRUCTION PLAN IN ANTICIPATION OF CONSTRUCTION ACTIVITIES PROGRESSING DURING THE LATE AUTUMN AND WINTER SEASONS. THE WINTER CONSTRUCTION PLAN IS INCLUDED AS ATTACHMENT 12 TO THE ECP.
4. PERFORM SEEDING OF PERMANENT VEGETATION WITHIN THE RECOMMENDED SEEDING DATES NOTED BELOW OR AS DETERMINED IN THE FIELD BY THE EI OR AI. IF SEEDING CANNOT BE DONE WITHIN THOSE DATES, USE APPROPRIATE TEMPORARY EROSION CONTROL MEASURES AND PERFORM SEEDING OF PERMANENT VEGETATION AT THE APPROPRIATE TIME WITHIN THE NEXT RECOMMENDED SEEDING SEASON BASED ON ROW SOIL.
5. DISTURBED SOILS SHALL BE SEEDED WITHIN SIX (6) WORKING DAYS OF FINAL GRADING, WEATHER AND SOIL CONDITIONS PERMITTING, UNLESS OTHERWISE REQUIRED BY THE APPLICABLE REGULATORY AGENCY, LANDOWNER OR LAND MANAGEMENT AGENCY.
6. SEEDING RATES SHALL BE BASED ON PURE LIVE SEED (PLS) RATE APPLICATIONS.
7. ALL SEED SHALL BE USED WITHIN 12 MONTHS OF THE SEED TESTING DATE AS NOTED BY THE MANUFACTURER.
8. LEGUME SEED SHALL BE TREATED WITH AN INOCULANT SPECIFIC TO THE SPECIES USING THE MANUFACTURER'S RECOMMENDED RATE OF INOCULANT APPROPRIATE FOR THE SEEDING METHOD (BROADCAST, DRILL, OR HYDRO).
9. A SEED DRILL EQUIPPED WITH A CULTIPACKER SHALL BE THE PREFERRED SEED APPLICATION APPARATUS UNLESS WRITTEN RECOMMENDATIONS FROM AN APPLICABLE REGULATORY SPECIFIES OTHERWISE.
10. ALL BROADCAST OR HYDRO SEEDING PERFORMED IN LIEU OF DRILLING SHALL BE PLACED AT DOUBLE THE RECOMMENDED SEEDING RATE. THE SEEDBED SHALL BE FIRMED WITH A CULTIPACKER OR ROLLER IN AREAS WHERE SEEDING IS PACED WITH THE BROADCAST METHOD. IN ROCKY SOILS OR WHERE SITE CONDITIONS MAY LIMIT THE EFFECTIVENESS OF THIS EQUIPMENT, OTHER ALTERNATIVES MAY BE APPROPRIATE (E.G., USE OF A CHAIN DRAG) TO LIGHTLY COVER THE SEED AFTER APPLICATION, AS APPROVED BY THE EI.
11. SEED SLOPES STEEPER THAN 30% IMMEDIATELY AFTER ROUGH GRADING IF FINAL GRADING WILL NOT OCCUR IMMEDIATELY, WEATHER PERMITTING.
12. ANY SEEDING CONDUCTED AFTER OCTOBER 15TH (LATE SEASON ROW STABILIZATION ACTIVITIES) WILL BE CONSIDERED "TEMPORARY", OR AS AN "INTERIM STABILIZATION MEASURE", AS IT MAY RESULT IN POOR SEED GERMINATION AND HIGH MORTALITY. TEMPORARY AND PERMANENT SEEDING OF AGRICULTURAL LANDS SHALL BE CONDUCTED IN ACCORDANCE WITH NYS DAM SEEDING, FERTILIZER AND LIME RECOMMENDATIONS. TEMPORARY AND PERMANENT SEED AND MULCH RATES CAN BE FOUND IN SECTION 10.4 OF THIS ECP.

TEMPORARY REVEGETATION

Table 10.4-1 - Temporary Seeding and Mulching				
Mix	Type	Components	Rates	Dates
A	Temporary Cover for Upland and Wetland Areas	Annual or Perennial Ryegrass	1 lb / 1000 sq.ft.	Spring, Summer or Early Fall
		Fertilizer (5-10-10)	Not Required	
		Pulverized Agricultural Lime	Not Required	
B	Temporary Cover for Upland and Wetland Areas	"Aroostook" winter rye (cereal rye)	1 lb / 1000 sq.ft.	Late Fall or Winter
		Fertilizer (5-10-10)	Not Required	
		Pulverized Agricultural Lime	Not Required	
	Mulch (Straw Only in Wetlands)	Hay/Straw	2 Tons per Acre	

TEMPORARY VEGETATION NOTES

AFTER GRADING AND EXCAVATION IS COMPLETED WITHIN AN AREA, VEGETATION WILL BE SOWN PROMPTLY AFTER CEASING EARTHWORK IN THOSE AREAS. HAY, STRAW MULCH, OR OTHER SIMILAR MATERIAL SHALL BE APPLIED TO NEWLY SEEDED AREAS TO PROTECT AGAINST EROSION UNTIL THE VEGETATION IS ESTABLISHED. HAY, STRAW MULCH, OR OTHER SIMILAR MATERIAL SHALL BE APPLIED AT A RATE OF AT LEAST TWO (2) TONS PER ACRE. THE SEED MIXES NOTED IN TABLE 10.4-1 ARE QUICK GERMINATING SEEDS THAT CAN BE APPLIED ANY TIME OF THE YEAR. ANY SEEDING COMPLETED AFTER OCTOBER 15TH WILL BE CONSIDERED "TEMPORARY", OR AS AN "INTERIM STABILIZATION MEASURE", AS IT MAY RESULT IN POOR SEED GERMINATION AND HIGH MORTALITY. DISTURBED AREAS THAT ARE FINAL GRADED BETWEEN JUNE 1ST & AUGUST 1ST AND OCTOBER 15TH & MARCH 15TH (OF THE FOLLOWING YEAR) SHALL BE SEEDED WITH THE TEMPORARY SEED MIXES NOTED IN TABLE 10.4-1 TO ENSURE QUICK ESTABLISHMENT. LOCATIONS THAT ARE SEEDED WITH TEMPORARY SEED MIXES SHALL BE SUPPLEMENTED WITH THE APPROPRIATE PERMANENT SEED MIX DURING THE DATE WINDOWS OF MARCH 15TH TO JUNE 1ST AND AUGUST 1ST TO OCTOBER 15TH.

PERMANENT REVEGETATION

PERMANENT REVEGETATION NOTES

TOPSOIL WILL BE REPLACED PRIOR TO PERMANENT STABILIZATION IN APPLICABLE LOCATIONS ALONG THE PROJECT ROW. DISTURBED AREAS SHALL BE SEEDED WITH THE APPROPRIATE SEED MIXTURE AS OUTLINED IN TABLE 10.4-2. LIME AND FERTILIZER SHALL BE APPLIED IN ACCORDANCE WITH SOIL TEST RECOMMENDATIONS. HAY, STRAW MULCH, OR OTHER SIMILAR MATERIAL SHALL BE APPLIED AT A RATE OF AT LEAST TWO (2) TONS PER ACRE, UNLESS OTHERWISE REQUIRED BY APPLICABLE REGULATORY AGENCIES. WEST FALL METER STATION IS LOCATED IN A KNOWN KARST AREA. ALL FERTILIZERS, HERBICIDES, PESTICIDES, OR OTHER CHEMICALS ARE TO BE APPLIED NO CLOSER THAN 200 FEET FROM SINKHOLES, WATERBODIES, SPRINGS, AND CAVE OPENINGS. REFER TO THE PROJECT NY ECP SECTION 5.27 FOR ALL OTHER KARST AREA PROCEDURES AND MEASURES. THE PERMANENT SEED MIXES NOTED IN TABLE 10.4-2 SHALL BE APPLIED BETWEEN MARCH 15TH TO JUNE 1ST AND AUGUST 1ST TO OCTOBER 15TH, INCLUDING AREAS WHERE ONLY TEMPORARY SEED MIXES HAVE BEEN APPLIED. TEMPORARY SEED MIXES NOTED IN TABLE 10.4-1 WILL BE APPLIED TO ALL DISTURBED AREAS OUTSIDE OF THE NOTED PERMANENT SEED MIX WINDOWS. THE SEED MIXES NOTED IN TABLES 10.4-2 AND 10.4-3 WERE DEVELOPED FROM THE NEW YORK NYSDEC BLUEBOOK (AUGUST 2005).


TABLE 10.4-2 - PERMANENT SEEDING				
Seed Mixture	Variety	Rates in lbs. per acre	per sq. ft.	Rate in lbs. per 1000 sq. ft.
Mix #1				
Creeping Red Fescue	Ensisva, Pennlawn, Boreal	10	.25	
Perennial Ryegrass	Pennfine, Linn	10	.25	
*This mix is used extensively for Shaded Areas				
Mix #2				
Switchgrass	Shelter, Pathfinder, Trailblazer, or Blackwell	20	.5	
* This rate is in pure live seed, this would be an excellent choice along the upland edge of a wetland to filter runoff and provide wildlife benefits. In areas where erosion may be a problem, a companion seeding of sand fowgrass should be added to provide quick cover at a rate of 2 lbs. per acre (0.05 lbs. per 1000 sq. ft.).				
Mix #3				
Switchgrass	Shelter, Pathfinder, Trailblazer, or Blackwell	4	.1	
Big Bluestem	Niagara	4	.1	
Little Bluestem	Albion or Camper	2	.05	
Indiangrass	Rumsey	4	.1	
Coastal Panicgrass	Atlantic	2	.05	
Sideoats Grama	El Reno or Trailway	2	.05	
Wildflower Mix		5	.01	
*This mix has been successful on sand and gravel plantings. It is very difficult to seed without a warm season grass seeder such as a Truax seed drill. Broadcasting this seed is very difficult due to the fluffy nature of some of the seed, such as bluestems and indiangrass.				
Mix #6				
Creeping Red Fescue	Ensisva, Pennlawn, Boreal	20	.45	
Tall Fescue	KY 31, Rebel	20	.45	
Perennial Ryegrass	Pennfine, Linn	5	.10	
Birdsfoot Trefoil	Empire, Pardee	10	.45	
*General purpose erosion control mix. Not to be used for a turf planting or play grounds.				

NOTES

MULCH – MULCHING FOR ALL SEED MIXTURES SHALL BE AT A RATE OF TWO (2) TONS PER ACRE, AND ANCHORED WITH A NETTING OR TACKIFIER.

SOIL AMENDMENTS – SOIL AMENDMENTS SHOULD BE INCORPORATED INTO THE UPPER 2 INCHES OF SOIL WHEN FEASIBLE. THE SOIL SHOULD BE TESTED TO DETERMINE THE AMOUNTS OF AMENDMENTS NEEDED. APPLY GROUND AGRICULTURAL LIMESTONE TO ATTAIN A PH OF 6.0 IN THE UPPER 2 INCHES OF SOIL. IF SOIL MUST BE FERTILIZED BEFORE RESULTS OF A SOIL TEST CAN BE OBTAINED TO DETERMINE FERTILIZER NEEDS, APPLY COMMERCIAL FERTILIZER AT 600 LBS. PER ACRE OF 5-10-10 OR EQUIVALENT. IF MANURE IS USED, APPLY A QUANTITY TO MEET THE NUTRIENTS OF THE ABOVE FERTILIZER. THIS REQUIRES AN APPROPRIATE MANURE ANALYSIS PRIOR TO APPLYING TO THE SITE. MANURE WILL NOT BE USED ON SITES PLANTED WITH BIRDSFOOT TREFOIL OR IN THE PATH OF CONCENTRATED WATER FLOW. WEST FALL METER SECTION IS LOCATED IN A KNOWN KARST AREA. ALL FERTILIZERS, HERBICIDES, PESTICIDES, OR OTHER CHEMICALS ARE TO BE APPLIED NO CLOSER THAN 200 FEET FROM SINKHOLES, WATERBODIES, SPRINGS, AND CAVE OPENINGS. REFER TO THE PROJECT NY ECP SECTION 5.27 FOR ALL OTHER KARST AREA PROCEDURES AND MEASURES.

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CONSTITUTION PIPELINE COMPANY, LLC  
PROPOSED 30" NATURAL GAS PIPELINE  
EROSION AND SEDIMENT CONTROL & LAYOUT PLANS  
FOR WEST FALL METER STATION  
& ACCESS ROAD PAR-76  
WRIGHT TOWNSHIP, SCHOHARIE COUNTY, NEW YORK  
SOIL EROSION & SEDIMENT CONTROL NOTES 2 OF 3





RECYCLING AND DISPOSAL METHODS

CONTRACTORS ARE REQUIRED TO INVENTORY AND MANAGE THEIR CONSTRUCTION SITE MATERIALS. THE GOAL IS TO BE AWARE OF THE MATERIALS ON-SITE, ENSURE THEY ARE PROPERLY MAINTAINED, USED, AND DISPOSED OF, AND TO MAKE SURE THE MATERIALS ARE NOT EXPOSED TO STORMWATER.

MATERIALS COVERED

THE FOLLOWING MATERIALS OR SUBSTANCES ARE EXPECTED TO BE PRESENT ON-SITE DURING CONSTRUCTION (NOTE: THIS LIST IS NOT AN ALL-INCLUSIVE LIST AND THE MATERIALS MANAGEMENT PLAN CAN BE MODIFIED TO ADDRESS ADDITIONAL MATERIALS USED ON-SITE):

- ACIDS
- DETERGENTS
- FERTILIZERS (NITROGEN/PHOSPHORUS)
- HYDROSEEDING MIXTURES
- PETROLEUM BASED PRODUCTS
- SANITARY WASTES
- SOIL STABILIZATION ADDITIVES
- SOLDER
- SOLVENTS
- OTHER (LIST HERE): \_\_\_\_\_

THESE MATERIALS MUST BE STORED AS APPROPRIATE AND SHALL NOT CONTACT STORM OR NON-STORMWATER DISCHARGES. CONTRACTOR SHALL PROVIDE A WEATHER PROOF CONTAINER TO STORE CHEMICALS OR ERODIBLE SUBSTANCES THAT MUST BE KEPT ON THE SITE. CONTRACTOR IS RESPONSIBLE FOR READING, MAINTAINING, AND MAKING EMPLOYEES AND SUBCONTRACTORS AWARE OF MATERIAL SAFETY DATA SHEETS (MSDSs).

MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF.

1. GOOD HOUSEKEEPING PRACTICES

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ON SITE DURING CONSTRUCTION:

- STORE ONLY ENOUGH MATERIAL REQUIRED TO DO THE JOB.
- STORE MATERIALS IN A NEAT, ORDERLY MANNER.
- STORE CHEMICALS IN WATERTIGHT CONTAINERS OR IN A STORAGE SHED, UNDER A ROOF, COMPLETELY ENCLOSED, WITH APPROPRIATE SECONDARY CONTAINMENT TO PREVENT SPILL OR LEAKAGE. DRIP PANS SHALL BE PROVIDED UNDER DISPENSERS.
- SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
- INSPECTIONS WILL BE PERFORMED TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS.
- COVER AND BERM LOOSE STOCKPILED CONSTRUCTION MATERIALS THAT ARE NOT ACTIVELY BEING USED (I.E. SOIL, SPOILS, AGGREGATE, ETC.).
- MINIMIZE EXPOSURE OF CONSTRUCTION MATERIALS TO PRECIPITATION.
- MINIMIZE THE POTENTIAL FOR OFF-SITE TRACKING OF LOOSE CONSTRUCTION AND LANDSCAPE MATERIALS.

2. HAZARDOUS PRODUCTS

THESE PRACTICES WILL BE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS. MSDSS FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE(S) WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. A MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN A FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

- PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS WITH THE ORIGINAL LABELS IN LEGIBLE CONDITION.
- ORIGINAL LABELS AND MSDSS WILL BE PRODUCED AND USED FOR EACH MATERIAL.
- IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL/STATE/FEDERAL RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

3. HAZARDOUS WASTES

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF BY THE CONTRACTOR IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. SITE PERSONNEL WILL BE INSTRUCTED.

4. CONCRETE AND OTHER WASH WATERS

PREVENT DISPOSAL OF RINSE, WASH WATERS, OR MATERIALS ON IMPERVIOUS OR PERVIOUS SURFACES, INTO STREAMS, WETLANDS OR OTHER WATER BODIES.

CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE, BUT ONLY IN EITHER (1) SPECIFICALLY DESIGNATED DIKED AREAS WHICH HAVE BEEN PREPARED TO PREVENT CONTACT BETWEEN THE CONCRETE AND/OR WASHOUT AND SOIL AND STORMWATER HAVING THE POTENTIAL TO BE DISCHARGED FROM THE SITE OR (2) IN LOCATIONS WHERE WASTE CONCRETE CAN BE POURED INTO FORMS TO MAKE RIPRAP OR OTHER USEFUL CONCRETE PRODUCTS.

THE HARDENED RESIDUE FROM THE CONCRETE WASHOUT DIKED AREAS WILL BE DISPOSED OF IN THE SAME MANNER AS OTHER NON-HAZARDOUS CONSTRUCTION WASTE MATERIALS OR MAY BE BROKEN UP AND USED ON THE SITE AS DEEMED APPROPRIATE BY THE CONTRACTOR AND GEOTECHNICAL ENGINEER. THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

ALL CONCRETE WASHOUT AREAS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE AREA CONTRIBUTING TO STORMWATER DISCHARGE IS NEGLIGIBLE. IF REQUIRED, ADDITIONAL BMPS MUST BE IMPLEMENTED TO PREVENT CONCRETE WASTES FROM CONTRIBUTING TO STORMWATER DISCHARGES. THE LOCATION OF THE CONCRETE WASHOUT AREA(S) MUST BE IDENTIFIED, BY THE CONTRACTOR/JOB SITE SUPERINTENDENT, ON THE JOB SITE COPY OF THE EROSION AND SEDIMENT CONTROL PLAN(S) IN THIS ESCP.

5. SANITARY WASTES

ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORMWATER DISCHARGES IS NEGLIGIBLE. ADDITIONAL BMPS MUST BE IMPLEMENTED, SUCH AS CONTAINMENT TRAYS (PROVIDED BY THE RENTAL COMPANY) OR SPECIAL CONTAINMENT CREATED WITH 2"x4" LUMBER, IMPERVIOUS PLASTIC, AND GRAVEL. THE LOCATION OF THE SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE JOB SITE COPY OF THE EROSION AND SEDIMENT CONTROL PLAN(S), IN THIS ESCP, BY THE CONTRACTOR/JOB SITE SUPERINTENDENT.

6. SOLID AND CONSTRUCTION WASTES

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL COMPLY WITH ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER/CONTAINER LIDS SHALL BE CLOSED AT THE END OF EVERY BUSINESS DAY AND DURING RAIN EVENTS. APPROPRIATE MEASURES SHALL BE TAKEN TO PREVENT DISCHARGES FROM WASTE DISPOSAL CONTAINERS TO THE RECEIVING WATER.

7. CONSTRUCTION ACCESS

A STABILIZED CONSTRUCTION EXIT WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED ROADS ADJACENT TO THE SITE ENTRANCE WILL BE INSPECTED DAILY AND SWEEPED AS NECESSARY TO REMOVE ANY EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPULIN AS NECESSARY.

8. PETROLEUM PRODUCTS

ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. PETROLEUM STORAGE TANKS ON SITE WILL HAVE A DIKE OR BERM CONTAINMENT STRUCTURE CONSTRUCTED AROUND IT TO CONTAIN SPILLS WHICH MAY OCCUR (CONTAINMENT VOLUME TO BE 110% OF VOLUME STORED). THE DIKE OR BERMED AREA SHALL BE LINED WITH AN IMPERVIOUS MATERIAL SUCH AS A HEAVY DUTY PLASTIC SHEET. DRIP PANS SHALL BE PROVIDED FOR ALL DISPENSERS. ANY ASPHALT SUBSTANCES USED ON THE SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

9. FERTILIZERS AND LANDSCAPE MATERIALS

FERTILIZERS WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO MINIMIZE THE POTENTIAL FOR EXPOSURE TO STORMWATER. STORAGE WILL BE UNDER COVER. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO MINIMIZE THE POTENTIAL FOR SPILLS. THE BIN SHALL BE LABELED APPROPRIATELY.

CONTAIN STOCKPILED MATERIALS, SUCH AS BUT NOT LIMITED TO, MULCHES, TOP SOIL, ROCKS AND GRAVEL, AND NYSDECOMPOSED GRANITE, WHEN THEY ARE NOT ACTIVELY BEING USED.

APPLY ERODIBLE LANDSCAPE MATERIAL AT QUANTITIES AND APPLICATION RATES ACCORDING TO MANUFACTURER RECOMMENDATIONS OR BASED ON WRITTEN SPECIFICATIONS BY KNOWLEDGEABLE AND EXPERIENCED FIELD PERSONNEL. DISCONTINUE THE APPLICATION OF ANY ERODIBLE LANDSCAPE MATERIAL WITHIN TWO DAYS PRIOR TO A FORECASTED RAIN EVENT OR DURING PERIODS OF PRECIPITATION.

10. PAINTS, PAINT SOLVENTS AND CLEANING SOLVENTS

CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT IN USE. EXCESS PAINT AND SOLVENTS WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR LOCAL/STATE/FEDERAL REGULATIONS.

11. CONTAMINATED SOILS

ANY CONTAMINATED SOILS (RESULTING FROM SPILLS OF MATERIALS WITH HAZARDOUS PROPERTIES) WHICH MAY RESULT FROM CONSTRUCTION ACTIVITIES WILL BE CONTAINED AND CLEANED UP IMMEDIATELY IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

MAINTENANCE PROGRAM

THE FOLLOWING INSPECTION AND MAINTENANCE PRACTICES WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS AND STABILIZATION MEASURES:

- ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED ONCE EVERY SEVEN DAYS AND POST-PRECIPITATION.
- ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF REPAIRS OR ADDITIONAL MEASURES ARE FOUND TO BE NECESSARY, THEY WILL BE INITIATED WITHIN 24 HOURS OF THE INSPECTION REPORT.
- BUILT UP SEDIMENT WILL BE REMOVED FROM PERIMETER BMPS WHEN IT HAS REACHED ONE-HALF THE HEIGHT OF THE FENCE.
- PERIMETER BMPS WILL BE INSPECTED FOR DEPTH OF SEDIMENT, DAMAGE, ETC., TO ENSURE THE MEASURE IS IN PROPER WORKING ORDER, AND THAT ANY POSTS/WOOD STAKES ARE SECURELY IN THE GROUND.
- TEMPORARY SEDIMENT TRAPS, IF PRESENT, WILL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 33-50% THE DESIGN DEPTH.
- TEMPORARY AND PERMANENT SEEDING, AND OTHER STABILIZATION MEASURES, WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
- A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. COPIES OF THE REPORT FORMS TO BE COMPLETED BY THE INSPECTOR ARE INCLUDED IN THIS ESCP.
- THE INSPECTOR WILL IMPLEMENT INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS THAT ARE USED ON THE SITE IN GOOD WORKING ORDER. THE INSPECTOR WILL ALSO BE TRAINED IN THE COMPLETION OF, INITIATION OF ACTIONS REQUIRED BY, AND THE FILING OF THE INSPECTION FORMS.
- DISTURBED AREAS AND MATERIALS STORAGE AREAS WILL BE INSPECTED FOR EVIDENCE OF OR POTENTIAL FOR POLLUTANTS ENTERING THE STORMWATER.

A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN(S) WILL BE AVAILABLE ON THE SITE AT ALL TIMES.

ONCE ANY EROSION CONTROL MEASURES ARE INSTALLED, THE MAINTENANCE AND INSPECTION PROCEDURES ABOVE SHALL BEGIN. THE CONTRACTOR SHOULD BE AWARE THAT THE INSPECTION FORMS BECOME AN INTEGRAL PART OF THE ESCP AND SHALL BE MADE READILY AVAILABLE TO THE GOVERNMENT INSPECTION OFFICIALS, THE PROJECT OWNER'S ENGINEER, AND THE PROJECT OWNER FOR REVIEW UPON REQUEST DURING VISITS TO THE PROJECT SITE.

INSPECTORS SHOULD BE KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICE OF EROSION AND SEDIMENT CONTROLS AND POSSESS THE SKILLS TO ASSESS CONDITIONS AT THE CONSTRUCTION SITE THAT COULD IMPACT STORMWATER QUALITY AND TO ASSESS THE EFFECTIVENESS OF ANY SEDIMENT AND EROSION CONTROL MEASURES SELECTED TO CONTROL THE QUALITY OF STORMWATER DISCHARGES FROM THE CONSTRUCTION SITE. THEY SHOULD ALSO HAVE READ AND UNDERSTOOD ALL PORTIONS OF THIS ESCP, INCLUDING THE ESCOP-2.

THE INDIVIDUAL(S) RESPONSIBLE FOR POST-STORM AND STORM EVENT BMP INSPECTIONS, AND THE QUALIFIED PERSON(S) ASSIGNED RESPONSIBILITY TO ENSURE FULL COMPLIANCE WITH THE PERMIT AND IMPLEMENTATION OF ALL ELEMENTS OF THE ESCP, INCLUDING THE PREPARATION OF THE ANNUAL COMPLIANCE EVALUATION AND THE ELIMINATION OF ALL UNAUTHORIZED DISCHARGES ARE:

NAME: \_\_\_\_\_

PHONE NUMBER: \_\_\_\_\_ EMERGENCY PHONE #: \_\_\_\_\_

COMPANY: \_\_\_\_\_

RESPONSIBILITIES: \_\_\_\_\_


NAME: \_\_\_\_\_

PHONE NUMBER: \_\_\_\_\_ EMERGENCY PHONE #: \_\_\_\_\_

COMPANY: \_\_\_\_\_

RESPONSIBILITIES: \_\_\_\_\_

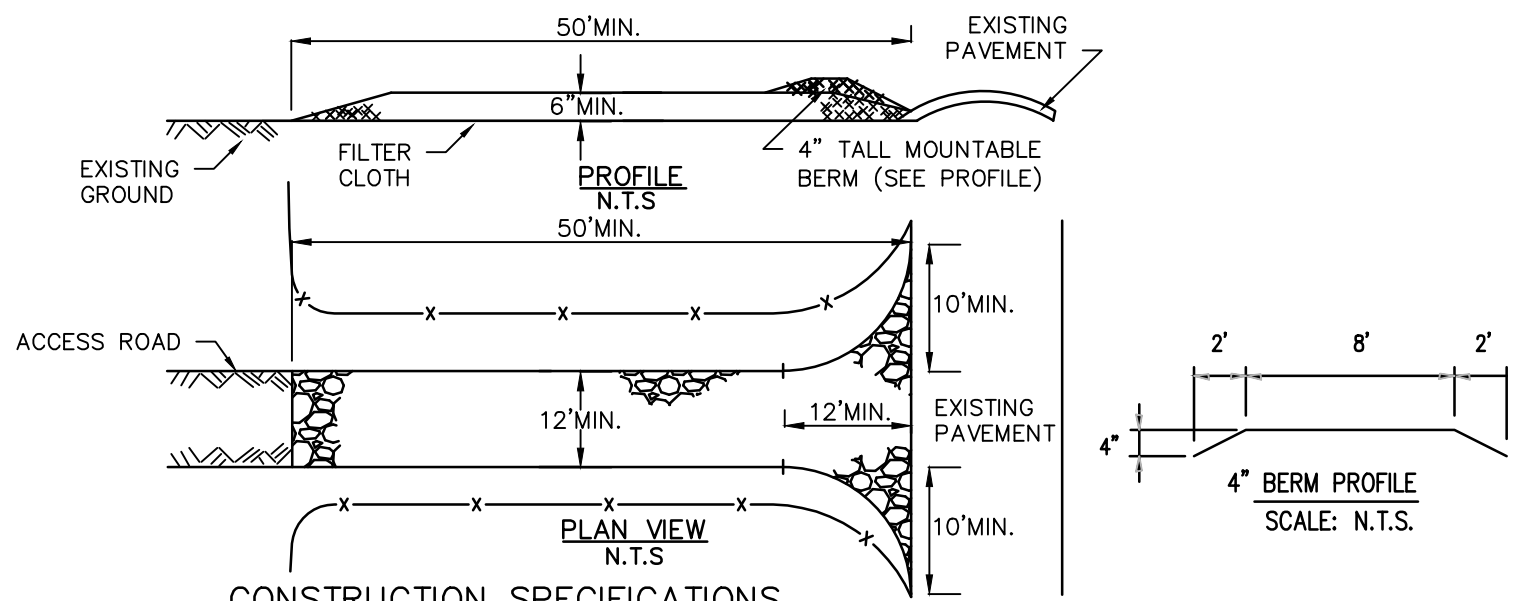
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NOT FOR CONSTRUCTION

ARCHITECTURE ENGINEERING ENVIRONMENTAL LAND SURVEYING		NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: JES/BOK	DATE: 7/14/2014	ISSUED FOR BID:	SCALE:	AS NOTED
		1.	07/21/14		ISSUED FOR BID				CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:		
									APPROVED BY:	DATE:	DRAWING NUMBER:	26-26-85/MSW-1.5	SHEET 7 OF 8
									W.O.:				

CONSTITUTION PIPELINE COMPANY, LLC  
PROPOSED 30" NATURAL GAS PIPELINE  
EROSION AND SEDIMENT CONTROL & LAYOUT PLANS  
FOR WEST FALL METER STATION  
& ACCESS ROAD PAR-76  
WRIGHT TOWNSHIP, SCHOHARIE COUNTY, NEW YORK  
SOIL EROSION & SEDIMENT CONTROL NOTES 3 OF 3





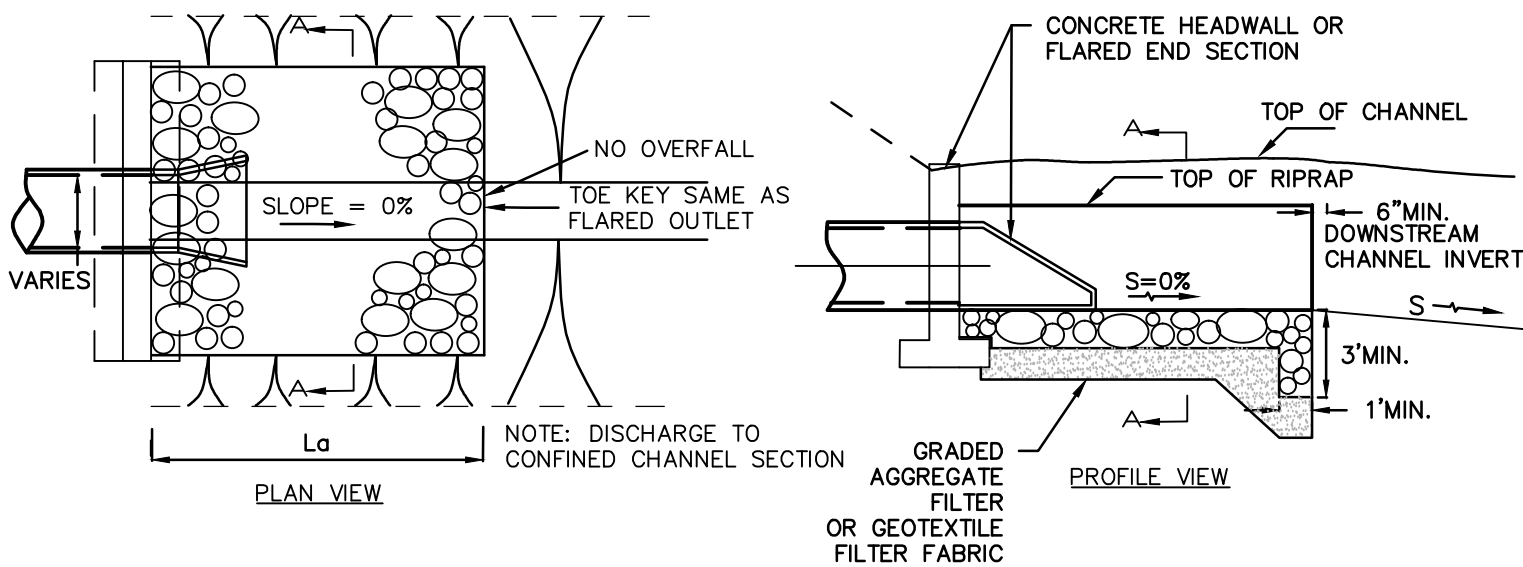


- STONE SIZE – 1–4" STONE PERMITTED FOR USE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH – NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- THICKNESS – NOT LESS THAN SIX (6) INCHES.
- WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY–FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. GEOTEXTILE MUST MEET CRITERIA IN TABLE BELOW.
- SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY MUST BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.

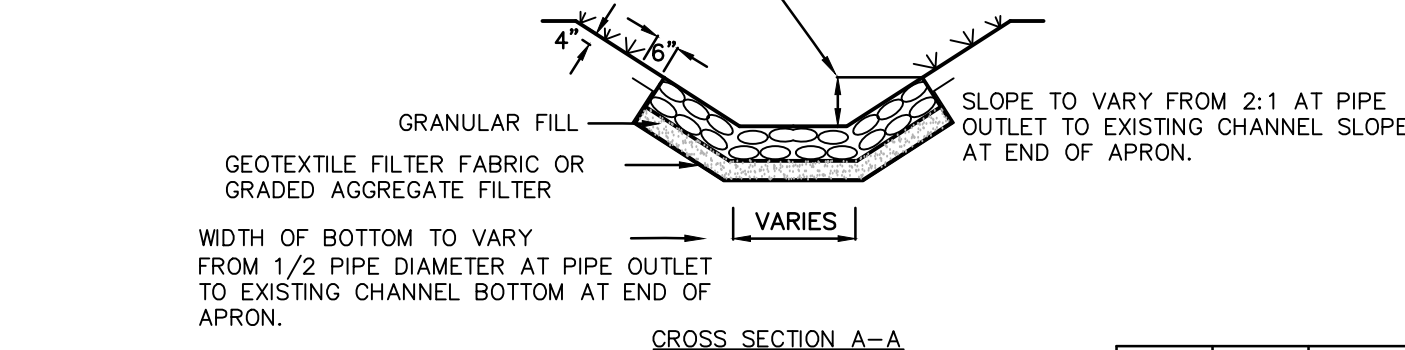
FABRIC PROPERTIES	LIGHT DUTY ROADS GRADE SUBGRADE	HEAVY DUTY HAUL ROADS ROUGH GRADE	TEST METHOD
GRAB TENSILE STRENGTH (LBS)	200	220	ASTM D1682
ELONGATION AT FAILURE (%)	50	60	ASTM D1682
MULLEN BRUST STRENGTH (LBS)	190	430	ASTM D3786
PUNCTURE STRENGTH (LBS)	40	125	ASTM D3786 MODIFIED
EQUIVALENT	40–80	40–80	US STD SIEVE
OPENING SIZE			CW–02215
AGGREGATE DEPTH	6	10	

## STABILIZED CONSTRUCTION ENTRANCE DETAIL

N.T.S. NYDEP–15



NOTE: DISCHARGE TO CONFINED CHANNEL SECTION  
MINIMUM DEPTH OF RIPRAP = MAXIMUM DEPTH OF FLOW (DOWNSTREAM NORMAL DEPTH OR DISCHARGE DEPTH, WHICHEVER IS GREATER).

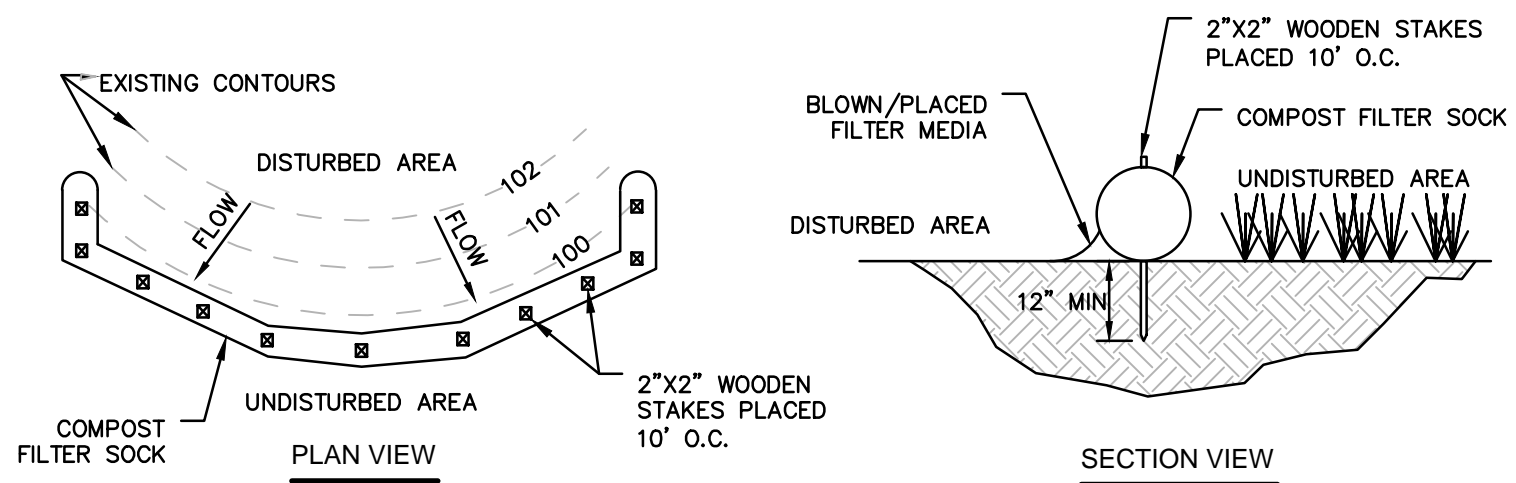


### NOTES:

- THE OUTLET PROTECTION MAY BE DONE USING ROCK RIPRAP, GROUTED RIPRAP, OR GABIONS. RIPRAP SHALL BE COMPOSED OF A WELL–GRADED MIXTURE OF STONE SIZE SO THAT 50 PERCENT OF THE PIECES, BY WEIGHT, SHALL BE LARGER THAN THE D50 SIZE DETERMINED BY USING THE CHART. A WELL–GRADED MIXTURE, AS USED HEREIN, IS DEFINED AS A MIXTURE COMPOSED PRIMARILY OF LARGER STONE SIZES, BUT WITH A SUFFICIENT MIXTURE OF OTHER SIZES TO FILL THE SMALLER VOIDS BETWEEN THE STONES. THE DIAMETER OF THE LARGEST STONE SIZE IN SUCH A MIXTURE SHALL BE 1.5 TIMES THE D50 SIZE.
- THE MINIMUM THICKNESS OF THE RIPRAP LAYER SHALL BE 1.5 TIMES THE MAXIMUM STONE DIAMETER FOR D50 OF 15 INCHES OR LESS; AND 1.2 TIMES THE MAXIMUM STONE SIZE FOR D50 GREATER THAN 15 INCHES.

## RIPRAP OUTLET PROTECTION

N.T.S.



SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 FOUND IN PENNSYLVANIA DEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT (FIGURE 4.1 FOUND IN PENNSYLVANIA DEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL). MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED THAT SHOWN ON FIGURE 4.2. STAKES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE SOCK IF SO SPECIFIED BY THE MANUFACTURER.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVEGROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

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

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.

## COMPOST STANDARDS

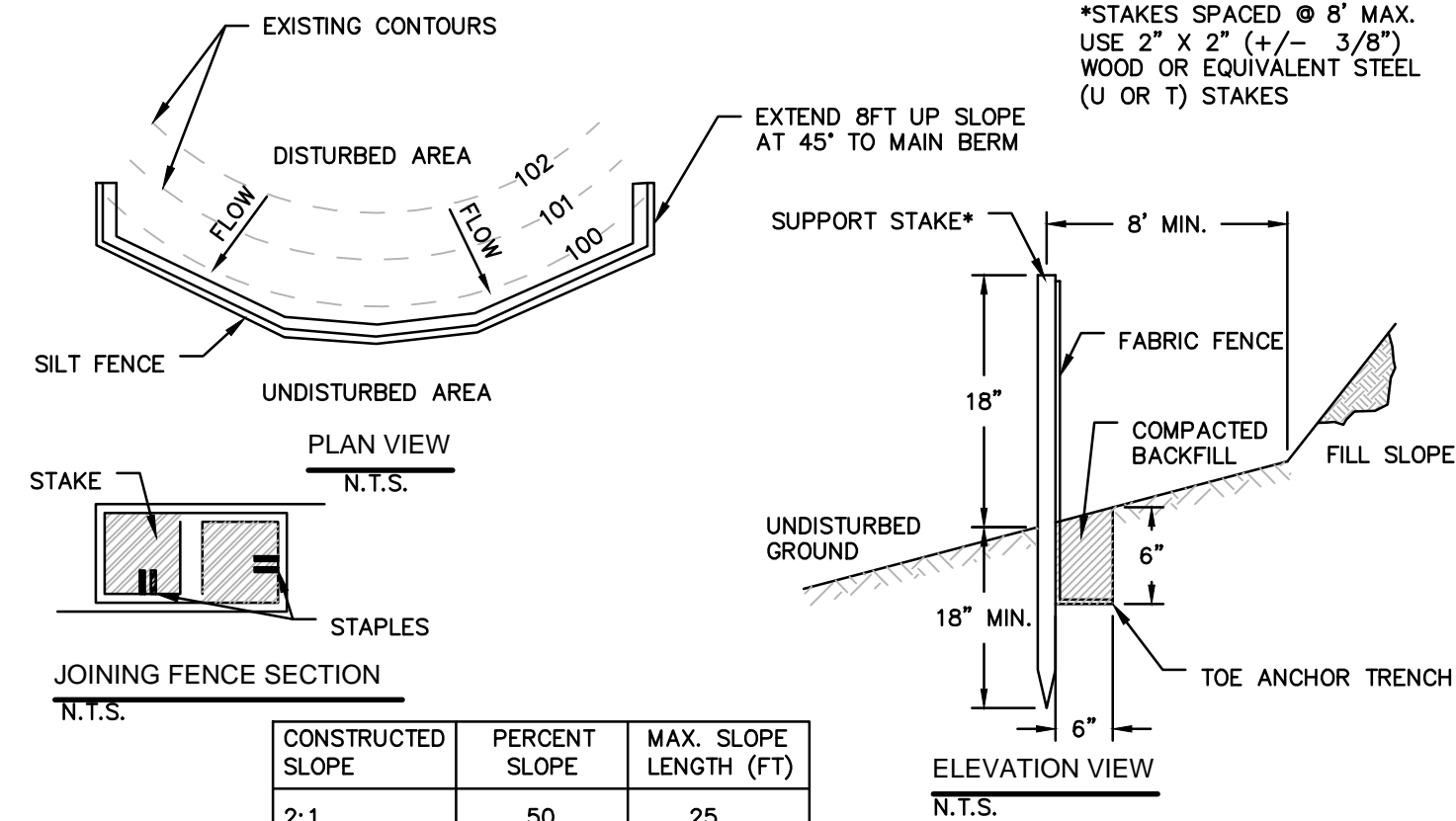
Organic Matter Content	80% – 100% (dry weight basis)
Organic Portion	Fibrous and elongated
pH	5.5 – 8.0
Moisture Content	35% – 55%
Particle Size	98% pass through 1" screen
Soluble Salt Concentration	5.0 dS/m (mmhos/cm) Maximum

## COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS

Material Type	3 mil HDPE	5 mil HDPE	5 mil HDPE	Multi-Filament Polypropylene (MFPP)	Heavy Duty Multi-Filament Polypropylene (HDMFPP)
Material Characteristics	Photo-degradable	Photo-degradable	Bio-degradable	Photo-degradable	Photo-degradable
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"	3/8"
Tensile Strength		26 psi	26 psi	44 psi	202 psi
Ultraviolet Stability % Original Strength (ASTM G-155)	23% at 1000 hr.	23% at 1000 hr.		100% at 1000 hr.	100% at 1000 hr.
Minimum Functional Longevity	6 months	9 months	6 months	1 year	2 years
Two-ply Systems					
Inner Containment Netting	HDPE biaxial net				
	Continuously wound				
	Fusion-welded junctures				
	3/4" X 3/4" Max. aperture size				
Outer Filtration Mesh	Composite Polypropylene Fabric (Woven layer and non-woven fleece mechanically fused via needle punch)				
	3/16" Max. aperture size				
Sock fabrics composed of burlap may be used on project lasting 6 months or less.					

## COMPOST FILTER SOCK DETAIL

N.T.S. PADEP–4–1



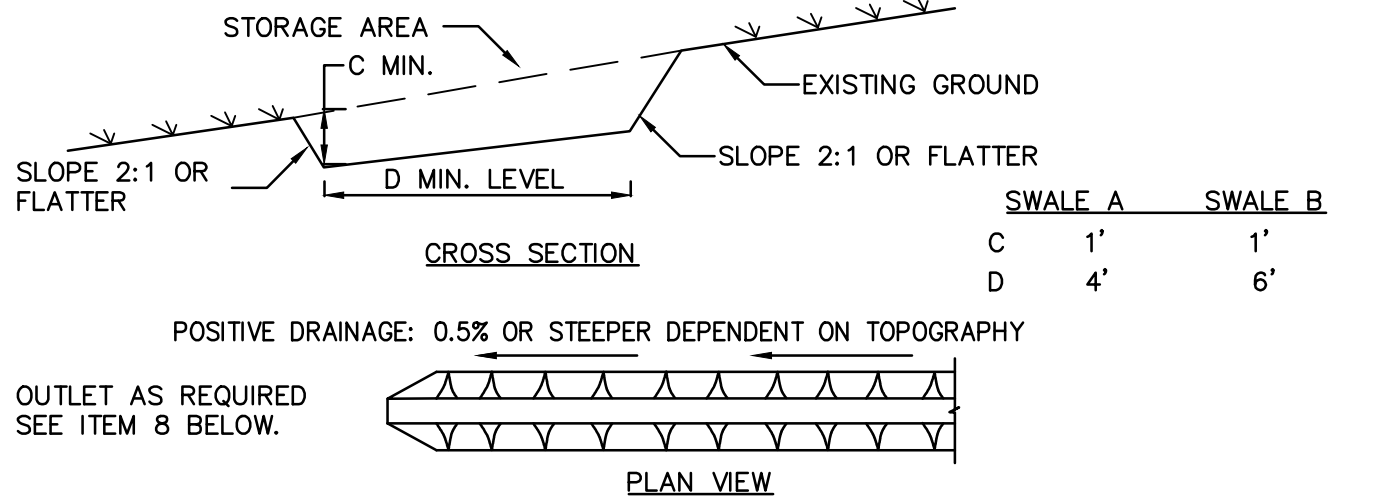
### NOTES:

- FABRIC SHALL HAVE THE MINIMUM PROPERTIES AS SHOWN IN THE TABLE BELOW.
- FABRIC WIDTH SHALL BE 30" MINIMUM. STAKES SHALL BE HARDWOOD OR EQUIVALENT STEEL (U OR T) STAKES.
- SILT FENCE SHALL BE PLACED AT LEVEL EXISTING GRADE. BOTH ENDS OF THE FENCE SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.
- SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVEGROUND HEIGHT OF THE FENCE.
- ANY SECTION OF SILT FENCE WHICH HAS BEEN UNDERMINED OR TOPPED SHALL BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET
- FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN TRIBUTARY AREA IS PERMANENTLY STABILIZED.
- SILT FENCE SHOULD NOT BE INSTALLED ON UNCOMPACTED FILLS OR IN EXTREMELY LOOSE SOILS (E.G. SANDY LOAM). IN ROCKY SOIL WHERE ANCHORING MAY BE DIFFICULT, OR IN FORESTED AREAS WHERE TREE ROOTS MAY BE SEVERED DURING INSTALLATION.
- MAXIMUM ALLOWABLE SLOPE LENGTHS FOR RUNOFF CONTRIBUTING TO SILT FENCING ARE SHOWN ABOVE.

FABRIC PROPERTIES FOR SILT FENCE		
FABRIC PROPERTY	MINIMUM ACCEPTABLE VALUE	TEST METHOD
GRAB TENSILE STRENGTH (LB)	120	ASTM D1682
ELONGATION AT FAILURE (%)	50% MAX.	ASTM D1682
MULLEN BURST STRENGTH (PSI)	200	ASTM D3786
TRAPEZOIDAL TEAR STRENGTH (LB)	50	—
PUNCTURE STRENGTH (LB)	40	ASTM D751 (MODIFIED)
SLURRY FLOW RATE (GAL/MIN/SF)	0.3	ASTM 5141
EQUIVALENT OPENING SIZE	40 – 80	US STD. SIEVE CW–02215
ULTRAVIOLET RADIATION STABILITY (%)	90	ASTM G–26

## SILT FENCE DETAIL

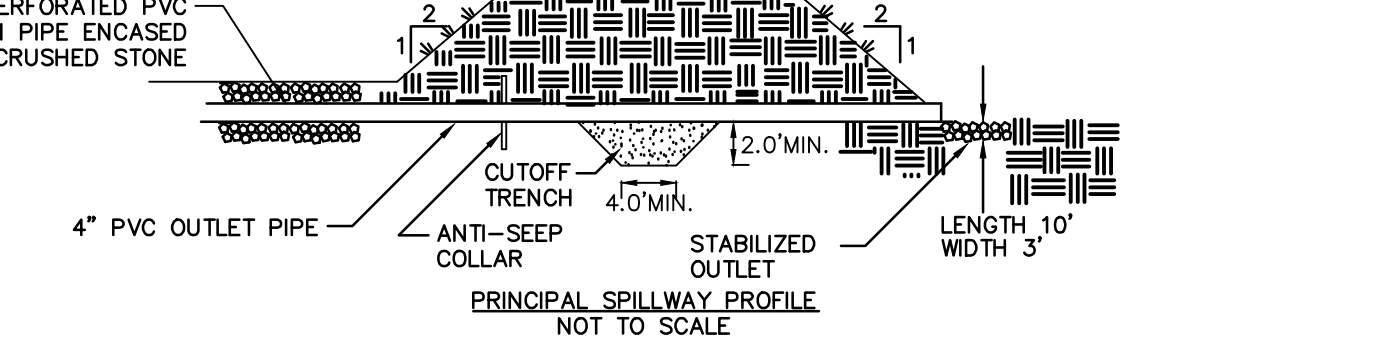
N.T.S. NYDEP–29



## CONSTRUCTION SPECIFICATIONS

- ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
- DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
- DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
- ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
- THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
- FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
- ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
- STABILIZATION SHALL BE AS PER THE FLOW CHANNEL STABILIZATION CHART BELOW:

TYPE OF TREATMENT	CHANNEL GRADE	A (\$ AC. OR LESS)	B (\$ AC. –10AC)
1	0.5–3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1–5.0%	SEED AND STRAW MULCH	SEED USING JUTE OR EXCELSIOR
3	5.1–8.0%	SEED WITH JUTE OR EXCELSIOR, SOD	LINED WITH 4–8" RIP–RAP OR RECYCLED CONCRETE EQUIVALENT
4	8.1–20.0%	LINED WITH 4–8" RIP–RAP	ENGINEERED DESIGN



## DETENTION BASIN DETAIL

N.T.S.

CONSTITUTION PIPELINE COMPANY, LLC  
PROPOSED 30" NATURAL GAS PIPELINE  
EROSION AND SEDIMENT CONTROL & LAYOUT PLANS  
FOR WEST FALL METER STATION  
& ACCESS ROAD PAR–76  
WRIGHT TOWNSHIP, SCHOHARIE COUNTY, NEW YORK  
SOIL EROSION & SEDIMENT CONTROL DETAILS



ARCHITECTURE ENGINEERING ENVIRONMENTAL LAND SURVEYING	<b>BU</b> Companies	NO. 1.	DATE 07/21/14	BY	ISSUED FOR BID	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: JES/BCK	DATE: 7/14/2014	ISSUED FOR BID:	SCALE: AS NOTED
										CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
										APPROVED BY:	DATE:	DRAWING NUMBER: 26–26–85/MSW–1.6	SHEET 8 OF 8
										W.O.:			