

**Owner:**  
**EBENSBURG MUNICIPAL**  
**AUTHORITY**  
300 WEST HIGH STREET  
EBENSBURG, PA. 15931

**Project Name:**  
**GRIFFITH'S FIELD CSO**  
**ABANDONMENT PROJECT**

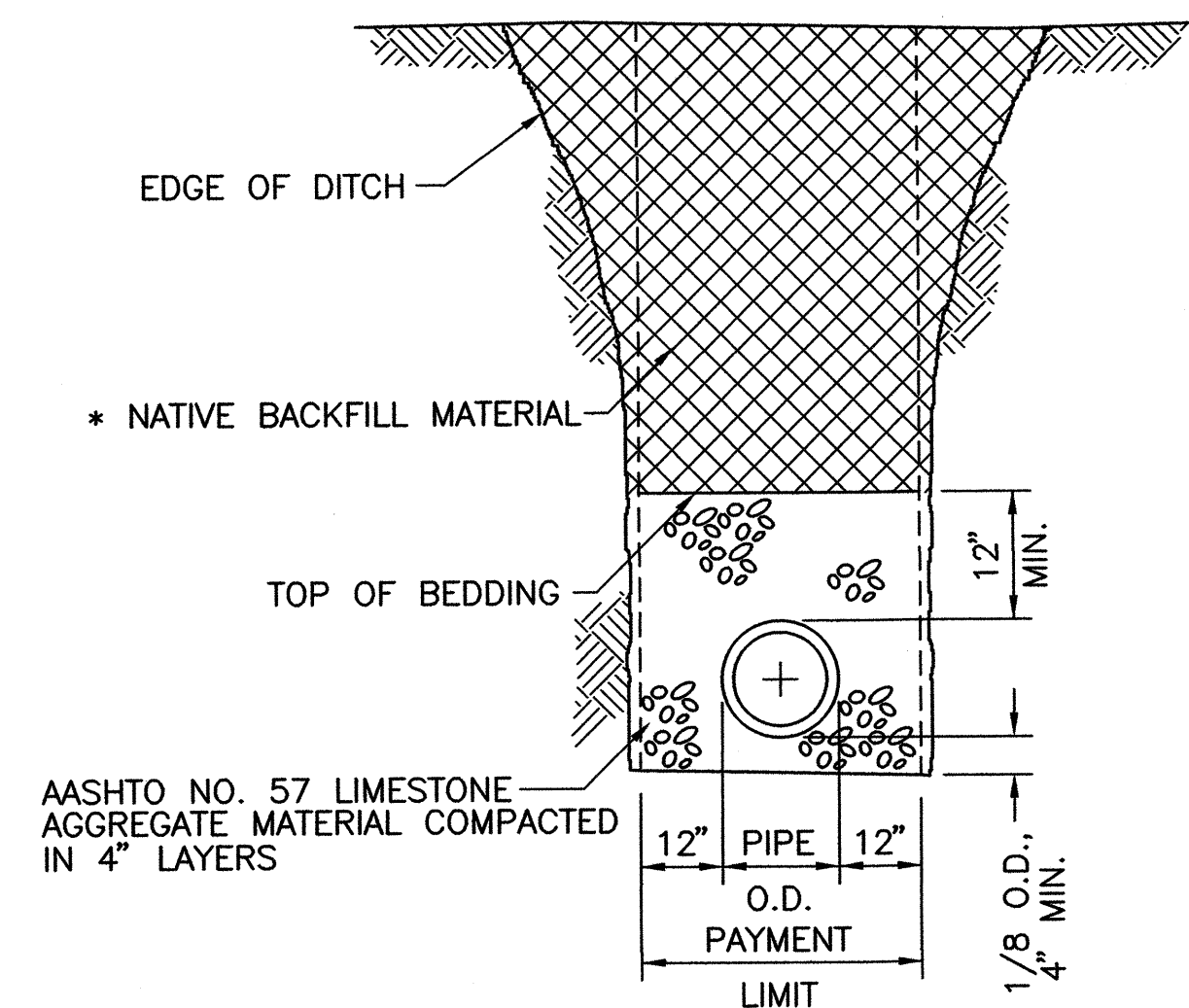
CONTRACT 2020-1

CAMBRIA TOWNSHIP  
CAMBRIA COUNTY, PENNSYLVANIA

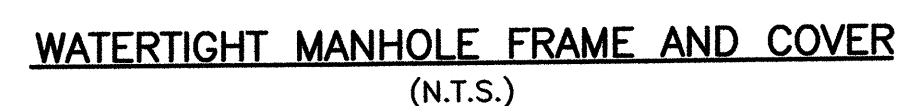
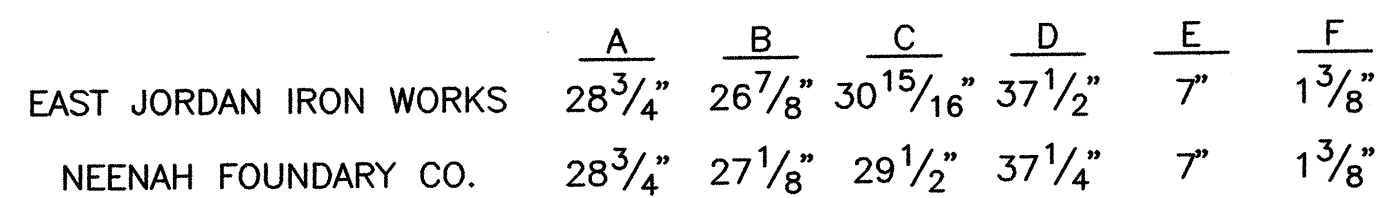
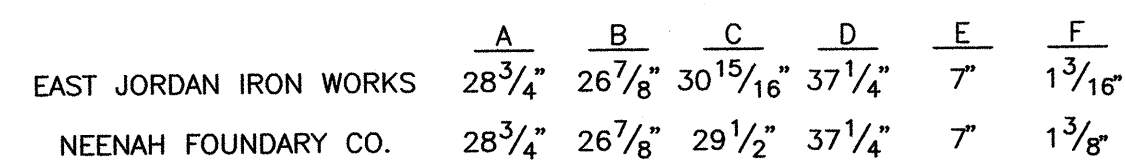
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\* EXCEPT IN STATE, TOWNSHIP AND BOROUGH ROADWAYS  
AND PAVED DRIVEWAYS/PARKING LOTS, SEE PAVEMENT  
REPLACEMENT DETAILS.



STANDARD BEDDING CONDITIONS  
FOR FLEXIBLE WALL PIPING  
(N.T.S.)

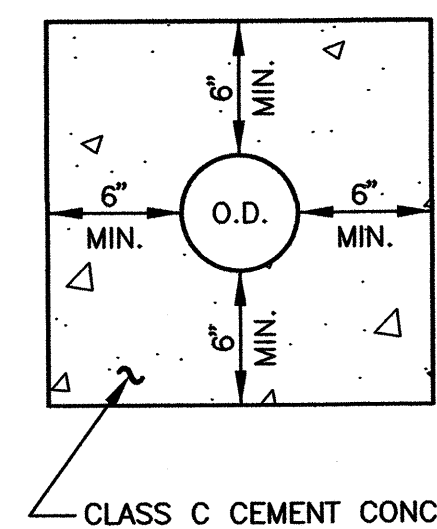
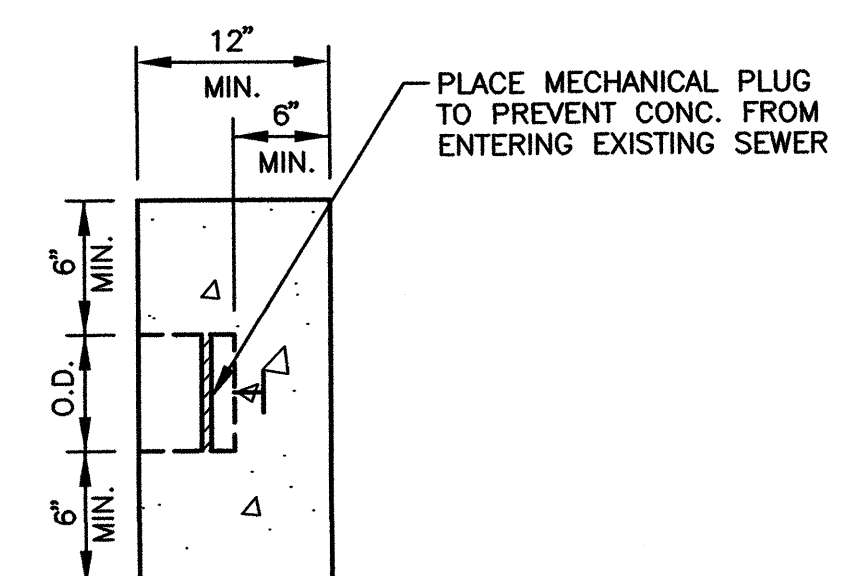
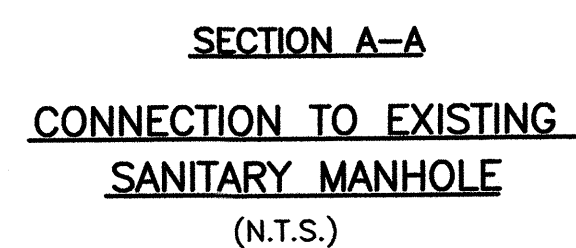
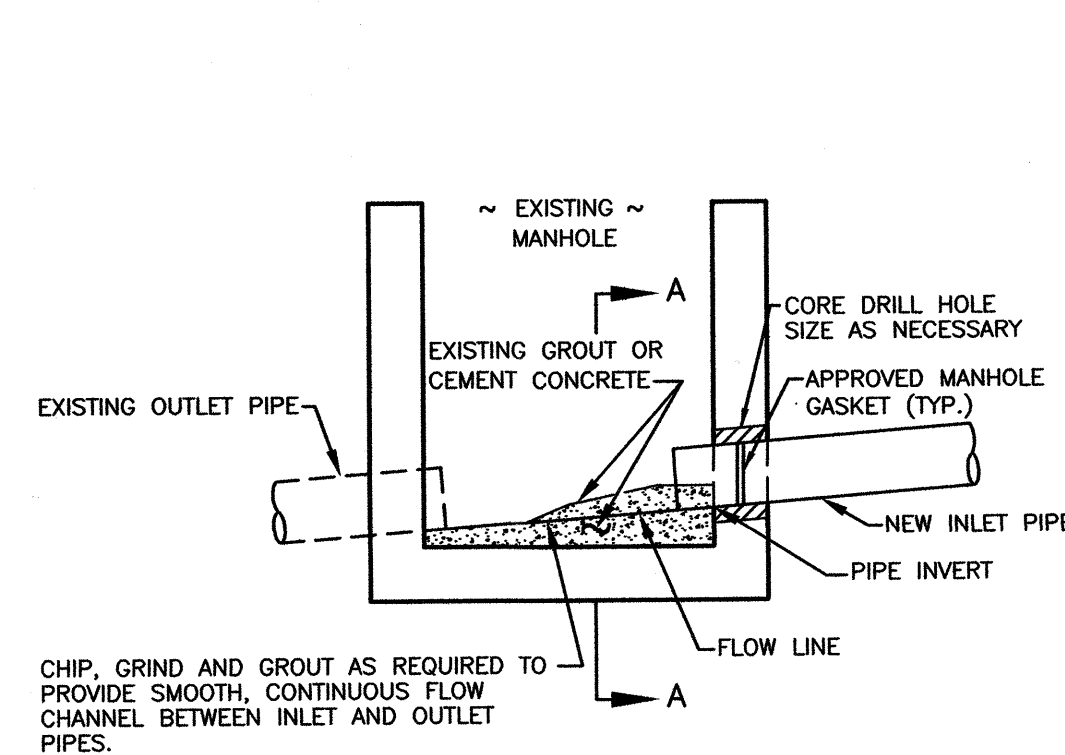


ALL MANHOLE FRAMES AND COVERS  
TO BE HEAVY DUTY.

WATERTIGHT FRAME AND COVERS SHALL BE SIMILAR TO THE FOLLOWING MODELS:

EAST JORDAN IRON WORKS  
MODEL NO. 1893

NEENAH FOUNDRY CO.  
MODEL NO. R-1755-F2



TYPICAL FOR PLUGGING  
OF EXISTING SEWER PIPES  
(N.T.S.)

Revisions:

[illegible]

**Sheet Title:**

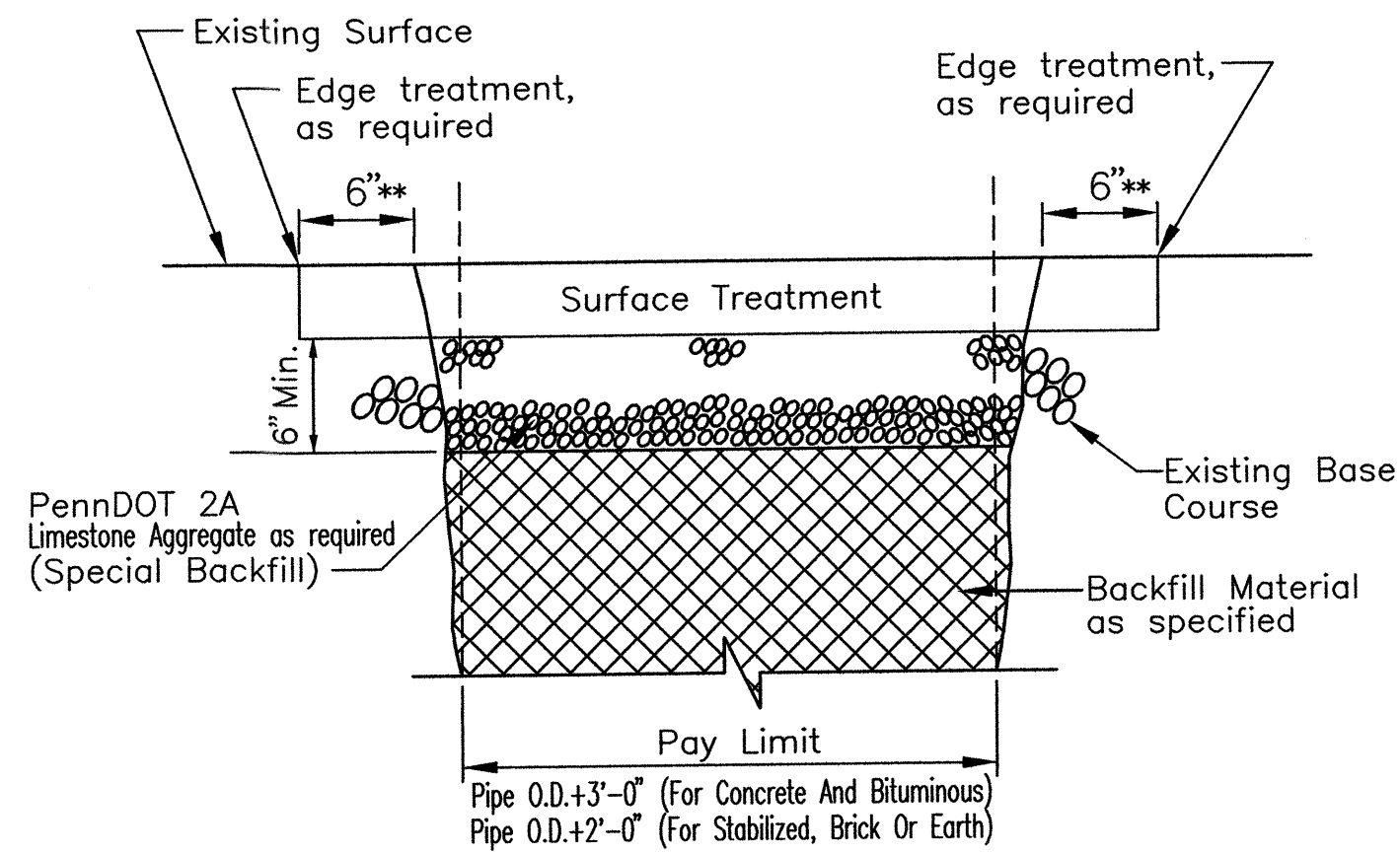
## DETAILS

PROJECT NO.	20-0002
DRAWN BY:	MPF
DESIGNED BY:	SJM
CHECKED BY:	TAC
SCALE:	AS-NOTED

Drawing:

D1

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\*Payment for PennDOT 2A Limestone Aggregate shall be under the "Special Backfill" Payment Item

\*\*For existing concrete or bituminous surface treatment, perform 6" cut-back on each side of trench. Pay limit for surface treatment replacement shall be Pipe Trench Pay Limit +1'.

#### SURFACE TREATMENT

CONCRETE  
BITUMINOUS

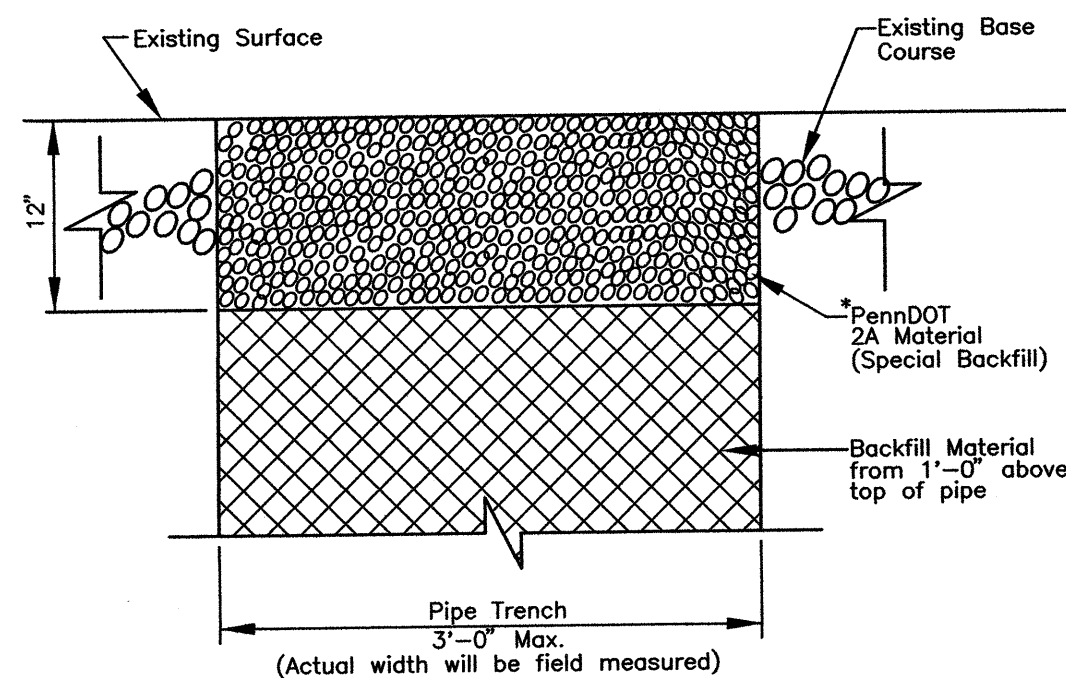
STABILIZED/EARTH

BRICK

#### SPECIFICATION

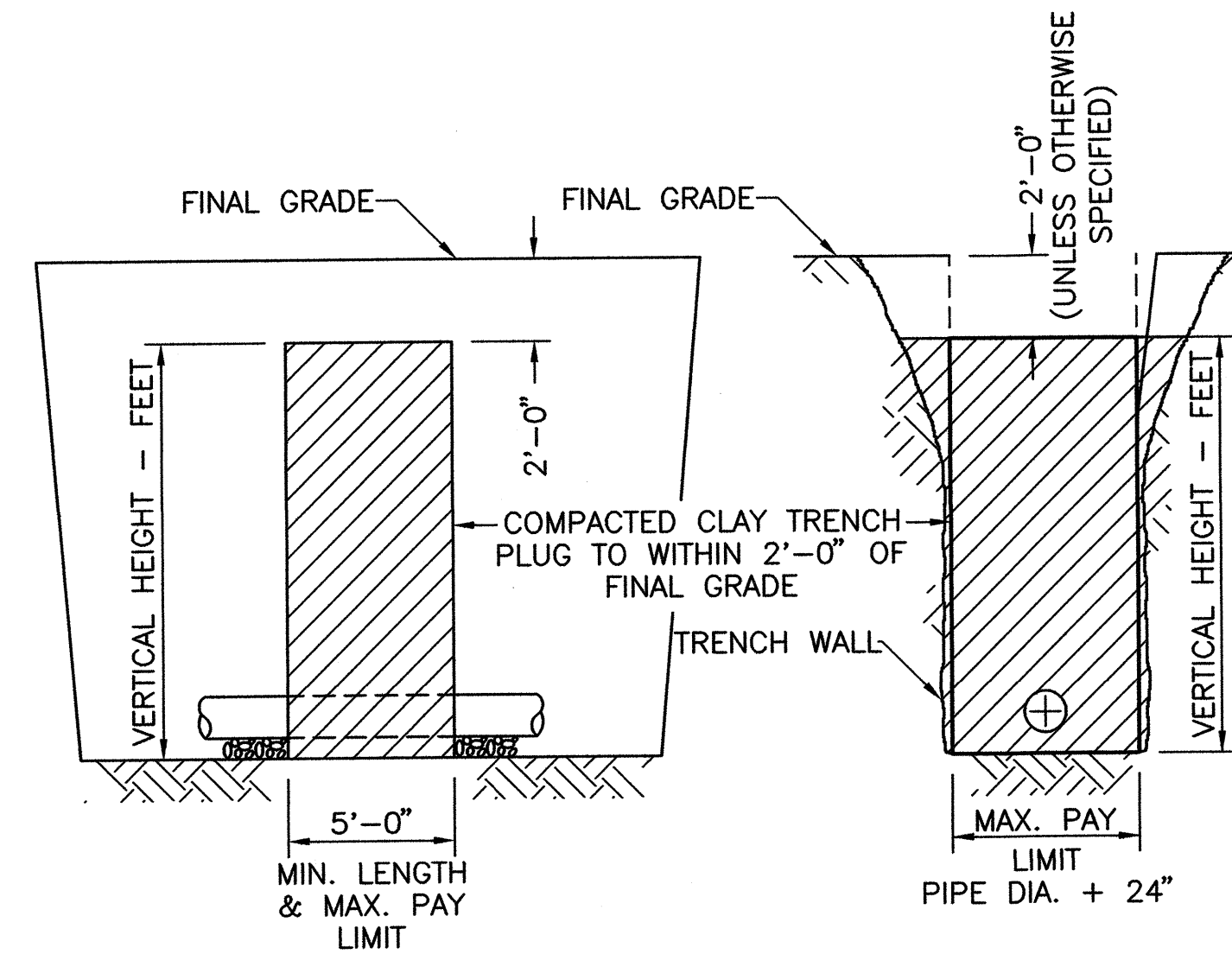
6" REINFORCED CONCRETE SLAB  
4" SPA 25mm BASE COURSE WITH  
1 1/2" SPA 9.5mm WEARING COURSE  
12" 2A STONE AS SPECIFIED  
AND COMPACTED  
4" SAND BED, BRICK SURFACE TO  
MATCH EXISTING

#### DRIVEWAY RESTORATION (N.T.S.)



\*Payment for PennDOT 2A Limestone Aggregate shall be under the "Special Backfill" Payment item

#### STABILIZED SURFACE RESTORATION FOR BOROUGH OR TOWNSHIP STABILIZED ROADWAYS, SHOULDERS, AND DRIVEWAYS (N.T.S.)



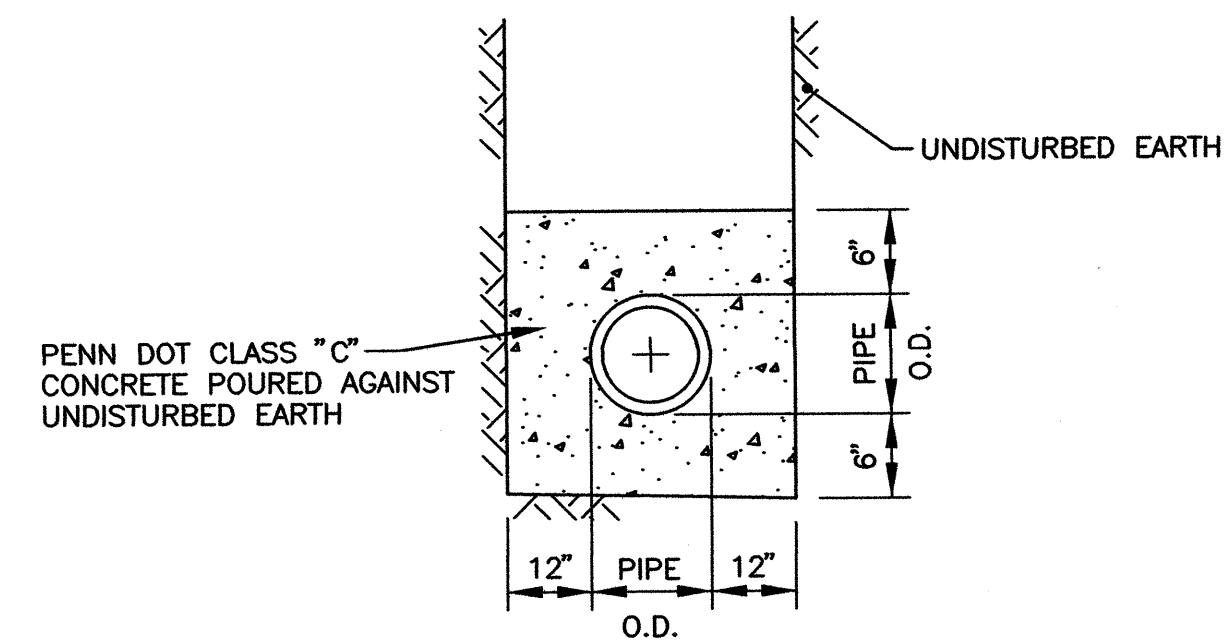
COMPACTED CLAY TRENCH PLUGS SHALL EXTEND VERTICALLY FROM UNDISTURBED GROUND AT BOTTOM OF TRENCH TO WITHIN TWO (2) FEET OF FINAL GRADE AND FROM UNDISTURBED GROUND ON TRENCH SIDES FOR FULL WIDTH OF TRENCH.

EACH CLAY TRENCH PLUG SHALL CONSIST OF CLAY CONTAINING NO MORE THAN 15% (BY VOLUME) STONE NOT LARGER THAN TWO (2) INCHES IN DIAMETER. CLAY SHALL BE PLACED IN SIX (6) INCH LIFTS AND COMPACTED BY MECHANICAL TAMPER TO NOT LESS THAN 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT.

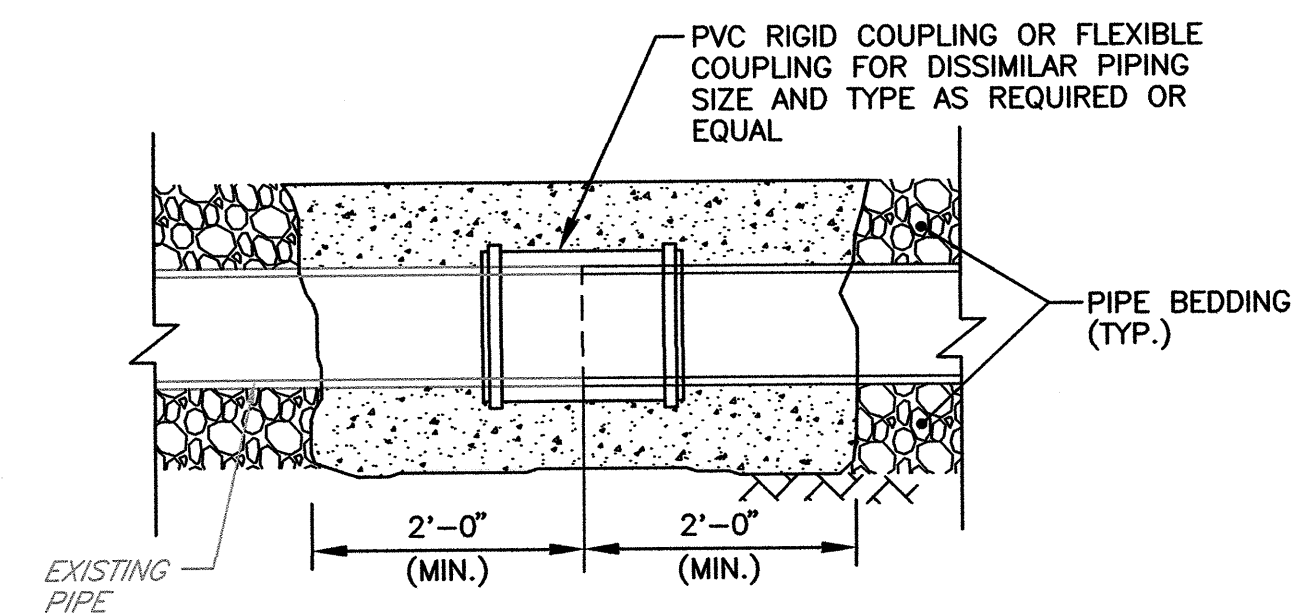
BLEEDER PIPE SHALL ALSO BE PLACED FROM TRENCH TO DITCH/STREAM, ETC. AS DIRECTED BY THE ENGINEER OR HIS REPRESENTATIVE.

ACTUAL LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER OR HIS REPRESENTATIVE.

#### CLAY TRENCH PLUG DETAIL (N.T.S.)



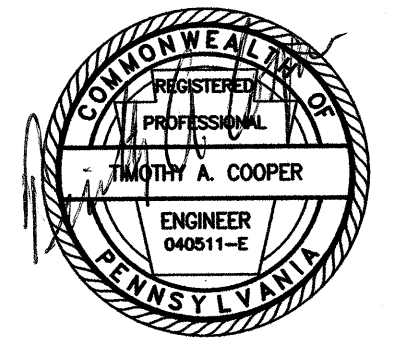
#### CROSS SECTION VIEW



#### PROFILE CONNECTION TO EXISTING SANITARY SEWER PIPE (N.T.S.)



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Hollidaysburg, PA 16648  
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CAMBRIA COUNTY, PENNSYLVANIA

AS-BID

#### Revisions:

No.	Date	Description

Sheet Title:

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PROJECT NO. 20-0002  
DRAWN BY: MPF  
DESIGNED BY: SJM  
CHECKED BY: TAC  
SCALE: AS-NOTED

Drawing:

D2



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GENERAL EROSION CONTROL NOTES

IN ADDITION TO THE SPECIFIC PROCEDURES FOR EROSION AND SEDIMENTATION CONTROL INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL ADHERE TO THE FOLLOWING GENERAL REQUIREMENTS:

- 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 PERMIT 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 SEVEN DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND / OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, TO AN ON-SITE PRECONSTRUCTION MEETING.
- AT LEAST THREE DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA THAT WAS PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM, INC., SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
- ALL 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 THE 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 BROUGHT ON SITE IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND / OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND / OR THE REGIONAL OFFICE OF DEP.
- ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1., AND 287.1 ET SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED OR DISCHARGED AT THE SITE.
- ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON-SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
- ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
- 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 INSPECTIONS.
- SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED OF 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 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 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. SEEDDED AREAS WITHIN 50 FT. 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 ONE-YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN ONE-YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
- PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING OR OTHER MOVEMENTS.
- E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND / OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL / CONVERSION OF THE E&S BMPS.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST-CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL / CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND / OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
- FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL AND / OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.
- CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
- ALL CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION AND CONSTRUCTION MATERIAL / WASTES.
- UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING. ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN THE MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE.
- FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONE, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE PLACED IN LIFTS NOT EXCEEDING 8-INCHES (LOOSE) AND SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH PADOT PUB. 408 SECTION 206.3.

CHAPTER 93 RECEIVING WATERCOURSE INFORMATION		
STREAM NAME	COUNTY	WATER USES PROTECTED
HOWELLS RUN	CAMBRIA	CWF, MF

STAGING OF EARTHMOVING ACTIVITIES

THE FOLLOWING CONSTRUCTION SEQUENCE WILL BE REQUIRED FOR THE CONSTRUCTION OF THE PROPOSED SITE DEVELOPMENT:

- AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OWNER AND/OR OPERATORS SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE E&S CONTROL PLAN PREPARER, TO AN ON-SITE PRE-CONSTRUCTION MEETING
- AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT 1-800-242-1776 FOR MARKOUT OF THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- INSTALL ROCK CONSTRUCTION ENTRANCES AT PROPOSED ACCESS LOCATIONS.
- INSTALL THE COMPOST FILTER SOCKS DOWNSLOPE OF THE PROPOSED EARTH DISTURBANCE AS INDICATED ON THE PLANS.
- EXCAVATE THE TRENCH FOR THE SEWER LINE AND APPURTENANCES AS INDICATED IN THE SPECIFICATIONS AND DETAILS. ONLY EXCAVATE A TRENCH LENGTH THAT CAN BE BACKFILLED, SEEDDED AND STABILIZED IN ONE WORKING DAY.
- DEWATERING OPERATIONS SHALL NOT DISCHARGE DIRECTLY INTO WATERS OF THE COMMONWEALTH, OR ONTO ANY LAND AREA LACKING NATURAL VEGETATIVE COVER.
- WHERE APPLICABLE, COMPLETELY REMOVE EXCAVATED TRENCH MATERIALS FROM THE PROJECT SITE WHERE GRANULAR BACKFILL IS INDICATED AND CANNOT BE GRADED OVER THE BACKFILLED TRENCH. IN THE EVENT THAT THE SOIL IS NOT SUITABLE AS FILL MATERIAL, THE CONTRACTOR SHALL DISPOSE OF IT AT A NPDES APPROVED SITE.
- INSTALL PIPE AND APPURTENANCES AS SHOWN ON THE PLANS.
- BACKFILL ALL TRENCHES AS SOON AS CONSTRUCTION PERMITS AND AS INDICATED IN THE SPECIFICATIONS OR AS DIRECTED.
- AT THE END OF EACH WORK DAY ALL TRENCHES SHALL BE BACKFILLED.
- WHEN ANY TEMPORARY ACTIVITY CEASES, INTERIM STABILIZATION MEASURES MUST BE IMMEDIATELY IMPLEMENTED FOR ANY DISTURBED AREAS.
- ONCE FINAL GRADE HAS BEEN MET, SPREAD THE TOPSOIL AND APPLY THE SEED AND MULCH. STABILIZE ALL DISTURBED AREAS WITH A PERMANENT SEED MIXTURE OR LANDSCAPING. IF EITHER THE QUANTITY OR QUALITY OF THE STRIPPED TOPSOIL IS NOT ADEQUATE FOR THE SITE STABILIZATION REQUIREMENTS, TOPSOIL SHALL BE HAULED TO THE PROJECT SITE AS NECESSARY.
- REMOVE THE COMPOST FILTER SOCKS WHEN A UNIFORM 70% VEGETATIVE COVER IS ESTABLISHED OVER THE TRIBUTARY AREAS. SEED, MULCH AND STABILIZE ANY AREAS DISTURBED DURING THE REMOVAL OF THESE DEVICES.

NOTES:

- EROSION AND SEDIMENT BEST MANAGEMENT PRACTICES (BMPS) MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPS.
- THE CONTRACTOR SHALL COORDINATE THEIR PROPOSED STABILIZATION MEASURES FOR ALL WORK AREAS TO BE COMPLETED DURING THE NON-GROWING SEASON DIRECTLY WITH THE COUNTY CONSERVATION DISTRICT.

TRENCHING AND OTHER EXCAVATIONS

- IMMEDIATELY REMOVE ANY EXCESS MATERIALS WHICH WILL NOT BE REUSED IN LATER CONSTRUCTION TO AN APPROVED SPOILS SITE WHERE IT SHALL BE PROTECTED BY SUITABLE E/S CONTROLS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MATERIALS REMOVED FROM THE PROJECT SITE, INCLUDING THE E/S CONTROLS APPLIED THERETO.
- THE LENGTH OF OPEN TRENCH EXCAVATION SHALL NOT EXCEED ONE HUNDRED (100) FEET WITHOUT PERMISSION OF THE ENGINEER. IN ROCK, TRENCHES SHALL BE OPEN AT LEAST 30 FEET AHEAD OF ANY PIPE BEING LAID. IN STEEP SLOPE AREAS THE LENGTH OF OPEN PIPE TRENCH SHALL NOT EXCEED TWO STANDARD LENGTHS OF INSTALLED PIPE.
- TRENCHES AND EXCAVATIONS SHALL BE BACKFILLED IMMEDIATELY UPON PROPER PLACEMENT AND INSPECTION OF THE PIPE OR STRUCTURE. ALL TRENCHES SHALL BE BACKFILLED AT THE CLOSE OF WORK EACH DAY, WITH THE EXCEPTIONS OF THE LAST SECTION OF THE PIPE, AS NEEDED TO FACILITATE THE NEXT DAY'S OPERATIONS. BACKFILL MATERIALS SHALL COMPLY WITH THE CONTRACT DRAWINGS, SPECIFICATIONS AND DETAILS FOR THE SPECIFIC AREA INVOLVED.
- ALL BACKFILLED AREAS SHALL BE STABILIZED AS INDICATED IN THIS NARRATIVE, THE SPECIFICATIONS AND CONTRACT DRAWINGS.
- MOUNDING OF BACKFILL: DURING EXCAVATION, MATERIAL SUITABLE FOR BACKFILLING SHALL BE PILED IN AN ORDERLY MANNER ALONG THE UPSLOPE SIDE OF THE TRENCH, AT A SUFFICIENT DISTANCE FROM THE BANKS OF THE TRENCH TO AVOID OVERLOADING OR CAVE-INS. ALL MATERIALS WHICH FALL BACK INSIDE THE TRENCH, DUE TO OVERLOADING OR CAVE-INS, SHALL BE PROMPTLY REMOVED AND NO EXTRA PAYMENT MADE FOR SAME. EXCAVATED MATERIALS THAT ARE EITHER UNSUITABLE OR NOT REQUIRED FOR BACKFILLING SHALL BE PILED SEPARATELY AT A SUITABLE DISTANCE AWAY FROM THE TRENCH AND THEN DISPOSED OF OFF-SITE AT AN APPROVED SPOIL AREA.

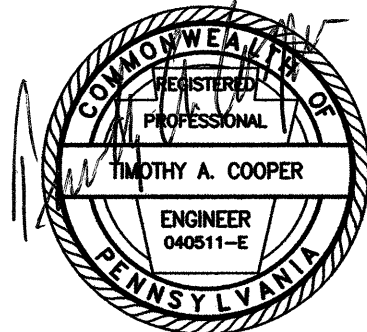
DEWATERING OPERATIONS

WHEN DEWATERING IS NECESSARY, DISCHARGE OVER AREAS COVERED WITH EXTENSIVE VEGETATION THROUGH THE USE OF A BAG FILTER. INSTALL A SILT SOCK BARRIER BELOW THE DISCHARGE AREA. IF SOIL IS BEING REMOVED, DISCONTINUE PUMPING AND CONSTRUCT A SEDIMENT TRAP (SILT-HOLDING BASIN) FOR RECEIPT OF DEWATERING DISCHARGE OR CAPTURE OF SILT-LADEN RUNOFF. ALLOW FOR THE FOLLOWING CONDITIONS:

- A DETENTION TIME OF APPROXIMATELY TWO HOURS.
- A TWO-FOOT FREEBOARD.
- PREVENT SHORT-CIRCUITING WITH THE USE OF PLYWOOD BAFFLES.
- FILTERED BASIN DISCHARGE.
- DEWATERING OPERATIONS SHALL NOT DISCHARGE DIRECTLY INTO WATERS OF THE COMMONWEALTH, OR ANY LAND AREA LACKING NATURAL VEGETATIVE COVER.
- EXCESSIVE EXCAVATION FROM ANY TRENCHING OPERATION SHALL BE DISPOSED OF AT AN ELEVATION HIGHER THAN THE ELEVATION OF MAXIMUM RECURRING 100-YEAR FLOOD.



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AUTHORITY  
300 WEST HIGH STREET  
EBENSBURG, PA. 15931

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CAMBRIA TOWNSHIP  
CAMBRIA COUNTY, PENNSYLVANIA

AS-BID

Revisions:

No.	Date	Description
△		

Sheet Title:

EROSION &  
SEDIMENTATION  
CONTROL NOTES

PROJECT NO.	20-0002
DRAWN BY:	MPF
DESIGNED BY:	SJM
CHECKED BY:	TAC
SCALE:	AS SHOWN

Drawing:

ES1



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TEMPORARY CONTROL MEASURES AND FACILITIES

THE TEMPORARY CONTROL MEASURES AND FACILITIES CONSIST OF:

PUMPED WATER FILTER BAGS:  
PUMPED WATER FILTER BAGS WILL BE USED TO RECEIVE ACCUMULATED RUNOFF FROM EXCAVATIONS AND TRENCHING OPERATIONS TO REDUCE THE QUANTITY OF SEDIMENT FLOW.

COMPOST FILTER SOCKS:  
COMPOST FILTER SOCKS WILL BE PLACED DOWNSLOPE OF EARTH DISTURBANCE ACTIVITIES TO REDUCE THE QUANTITY OF SEDIMENT FLOW.

ROCK CONSTRUCTION ENTRANCES:  
CONSTRUCTION ENTRANCES WILL BE INSTALLED AT THE INGRESS / EGRESS LOCATIONS TO LIMIT TRACKING OF DIRT ONTO THE ROADWAY.

INTERIM STABILIZATION  
INTERIM VEGETATED STABILIZATION SHALL BE PROVIDED FOR SOIL STOCKPILE AREAS AND DISTURBED LOCATIONS WHERE ACTIVITY CEASES. SOIL TESTING SHALL BE PERFORMED TO DETERMINE PROPER SOIL AMENDMENTS.

PERMANENT CONTROL MEASURES AND FACILITIES

THE PERMANENT CONTROL MEASURES AND FACILITIES CONSIST OF:

LAWN, LANDSCAPING:

THE ENTIRE SITE WILL BE STABILIZED BY THE PROPOSED FINAL "COVER", CONSISTING OF GRASS, LANDSCAPING/PLANTINGS. SOIL TESTING SHALL BE PERFORMED TO DETERMINE PROPER SOIL AMENDMENTS.

TO PROMOTE MINIMAL SOIL COMPACTION EFFORTS, SOIL PREPARATION SHALL BE AS FOLLOWS:

- CONTRACTOR SHALL KEEP EQUIPMENT WITHIN THE LIMITS OF DISTURBANCE.
- WHERE SOIL IS SATURATED WITH WATER AND IS NOT SUITABLE OR SAFE TO SUPPORT EQUIPMENT, THE CONTRACTOR SHALL ALLOW SITE TO DRAIN BEFORE FINISH GRADING AND SEEDING IS PERFORMED.
- PRIOR TO PLACING TOP SOIL, THE CONTRACTOR SHALL LOOSEN UP THE TOP 6"-12" OF SUBSOIL BY DISKING, PLOWING, OR A SIMILAR METHOD.
- THE TOPSOIL SHALL BE REGRADED EVENLY OVER THE DISTURBED AREAS.

MAINTENANCE OF CONTROL FACILITIES

UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST 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, REGRAIDING, RESEEDING, REMULCHING, AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.

A LOG SHOWING DATES THAT EROSION AND SEDIMENT 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 WILL BE CLEANED FROM THE COMPOST FILTER SOCKS WHEN ACCUMULATIONS REACH ONE-THIRD THE ABOVE-GROUND HEIGHT OF THE BARRIER. PUMPED WATER FILTER BAGS AND TRAPPED SEDIMENT WILL BE REMOVED WHEN ACCUMULATED SEDIMENTS REACH ONE-HALF THE TOTAL BAG CAPACITY. SPARE BAGS SHALL BE KEPT AVAILABLE ON-SITE FOR REPLACEMENT AS NECESSARY.

THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PRIVATE ROADWAYS AND / OR PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND / OR CLEANOUT OF ANY MEASURE USED TO TRAP SEDIMENT.

ALL SEDIMENT SHALL BE REMOVED FROM A TEMPORARY SEDIMENTATION OR EROSION CONTROL DEVICE PRIOR TO THE REMOVAL OF THAT DEVICE. TEMPORARY CONTROL DEVICES WILL BE REMOVED BY STARTING UPSTREAM OR UP-SLOPE TO ENSURE SEDIMENTATION CONTROL DURING THE REMOVAL PROCESS. THE FILTER MEDIA FROM WITHIN THE COMPOST FILTER SOCKS WILL BE DISPERSED ON SITE ONCE THE DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED, CONSTRUCTION ACTIVITY HAS CEASED OR AS DETERMINED BY THE ENGINEER.

THE CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OR PERMANENT STABILIZATION OF ALL SEDIMENT REMOVED FROM BMPS. THE SEDIMENT SHALL NOT BE DUMPED IN AREAS WHERE EROSION WILL CAUSE AN UNSIGHTLY SCAR OR WHERE THE SEDIMENT CAN REACH A STREAM. UPON REMOVING THE SEDIMENT FROM THE DEVICE AND PLACING IT IN A SUITABLE LOCATION, THE MATERIAL SHALL BE SPREAD TO A UNIFORM DEPTH, SEEDED AND STABILIZED.

THE CONTRACTOR SHALL PREPARE AN EROSION AND SEDIMENT CONTROL PLAN FOR ANY AREAS TO BE DISTURBED WHICH ARE NOT SHOWN ON THE DRAWINGS SUCH AS JOB TRAILER SITES, MATERIAL STORAGE SITES, EQUIPMENT MAINTENANCE SITE, AND BORROW AND WASTE AREAS, ETC. PLANS MUST BE APPROVED BY THE LOCAL COUNTY CONSERVATION DISTRICT BEFORE EARTH DISTURBANCE OCCURS AT THE RESPECTIVE AREA. THE CONTRACTOR SHOULD ALLOW 30 DAYS IN THEIR CONSTRUCTION PLANNING FOR REVIEW OF THE SUBMITTED PLAN BY THE LOCAL COUNTY CONSERVATION DISTRICT.

GENERAL EARTHWORK AND SPOIL AND BORROW AREAS

ENVIRONMENTAL DUE DILIGENCE MUST BE PERFORMED BY THE CONTRACTOR TO DETERMINE IF THE MATERIALS ASSOCIATED WITH THE PROJECT QUALIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTION, ELECTRONIC DATABASE 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 A 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 CLEAN FILL."

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.

LONG, STEEP CUT AND FILL SLOPES SHOULD BE SEEDED AND MULCHED IN FIFTEEN-FOOT VERTICAL INCREMENTS, WHICH MAY BE INCREASED TO TWENTY-FOOT VERTICAL INCREMENTS IF VERY LARGE EQUIPMENT IS USED.

IF OFF-SITE SPOIL OR BORROW AREAS FOR MATERIALS ARE REQUIRED, THE CONTRACTOR WILL PREPARE AND SUBMIT AN EROSION AND SEDIMENTATION CONTROL (E&S) PLAN FOR EACH SITE CHOSEN TO THE APPROPRIATE COUNTY CONSERVATION DISTRICT FOR REVIEW. THE CONTRACTOR SHALL PROVIDE A WETLAND ASSESSMENT, AND SHALL BE RESPONSIBLE FOR ANY OTHER PERMITS REQUIRED, FOR EACH SITE CHOSEN.

ALL AREAS USED FOR DEPOSITION OF EXCESS MATERIALS OR AS A SOURCE OF FILL MATERIALS SHALL BE ADEQUATELY PROTECTED AGAINST EROSION AND SEDIMENTATION. ALL SPOIL AND BORROW AREAS SHALL RECEIVE FINAL GRADING AND STABILIZATION UPON COMPLETION OF THE PROJECT.

IF EXCESS MATERIALS ARE TO BE SPREAD OUT AND GRADED WITHIN THE PROJECT LIMITS, THE AREA SHALL BE SEEDED AND MULCHED AS SOON AS POSSIBLE. IF THE MATERIALS ARE STOCKPILED WITHIN THE PROJECT LIMITS, FILTER FABRIC FENCES AND / OR COMPOST FILTER SOCKS SHALL BE PLACED ON THE DOWNSTREAM SIDE.

THE CONTRACTOR SHALL NOT DISTURB GROUND COVER AREAS BEYOND THOSE NECESSARY TO SATISFACTORILY COMPLETE THE REQUIRED WORK.

DIVERT SURFACE RUNOFF AWAY FROM CONSTRUCTION AREAS WHERE PRACTICAL.

TO PROMOTE MINIMAL SOIL COMPACTION EFFORTS, SOIL PREPARATION SHALL BE AS FOLLOWS:

- CONTRACTOR SHALL KEEP EQUIPMENT WITHIN THE LIMITS OF DISTURBANCE.
- WHERE SOIL IS SATURATED WITH WATER AND IS NOT SUITABLE OR SAFE TO SUPPORT EQUIPMENT, THE CONTRACTOR SHALL ALLOW SITE TO DRAIN BEFORE FINISH GRADING AND SEEDING IS PERFORMED.
- PRIOR TO PLACING TOPSOIL, THE CONTRACTOR SHALL LOOSEN UP THE TOP 6"-12" OF SUBSOIL BY DISKING, PLOWING, OR SIMILAR METHOD.
- THE STOCKPILED TOPSOIL SHALL BE RE-GRADED EVENLY OVER THE TRENCH OR DIRECTIONAL DRILL PITS.

RECYCLING AND DISPOSAL OF MATERIALS

WASTES GENERATED DURING THE CONSTRUCTION OF THIS PROJECT SHALL BE RECYCLED IF AT ALL POSSIBLE. ANY MATERIALS THAT CAN NOT BE RECYCLED OR REUSED SHALL BE DISPOSED OF AT A NPDES APPROVED SITE. TRASH AND DEBRIS SHOULD BE DISPOSED OF AT A PRE-APPROVED LANDFILL. IF SOIL AND/OR ROCK DISPOSAL AREAS ARE REQUIRED, EROSION AND SEDIMENTATION CONTROLS SHALL BE IMPLEMENTED AT THESE AREAS. ANY SOIL BORROW OR SOIL WASTE SITES THAT WILL BE LOCATED OUTSIDE THE NPDES PERMIT BOUNDARY MUST FIRST BE APPROVED BY THE APPROPRIATE AGENCIES.

GEOLOGIC FORMATIONS/SOIL CONDITIONS

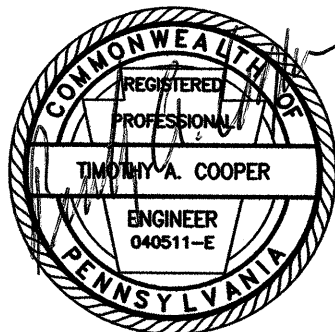
THERE ARE NO VISIBLE GEOLOGIC FORMATIONS OR SOIL CONDITIONS THAT WOULD HAVE POTENTIAL TO CAUSE POLLUTION. IF ANY GEOLOGIC FORMATIONS OR SOILS THAT HAVE POTENTIAL TO CAUSE POLLUTION ARE ENCOUNTERED IN THE FIELD, THE ENGINEER MUST BE NOTIFIED IMMEDIATELY.

MANAGEMENT OF THERMAL IMPACTS

NO THERMAL IMPACTS ARE EXPECTED CONSIDERING, THERE ARE NO SURFACE COVERAGE CHANGES ARE PROPOSED FROM THE EXISTING CONDITIONS.



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Project Name:  
GRIFFITH'S FIELD CSO  
ABANDONMENT PROJECT

CONTRACT 2020-1

CAMBRIA TOWNSHIP  
CAMBRIA COUNTY, PENNSYLVANIA

AS-BID

Revisions:

No.	Date	Description
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Sheet Title:

EROSION &  
SEDIMENTATION  
CONTROL NOTES

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## SEEDING AND SOIL SUPPLEMENT TABLE

PLACE SEEDING SOIL SUPPLEMENTS ON ALL AREAS IN ACCORDANCE WITH PADOT SPECIFICATIONS, PUB. 408, AND AT THE RATES SPECIFIED BELOW:

FORMULA & SPECIES	% BY WEIGHT	MIN. % PURITY/GERMINATION	WEED SEED	LBS. PER 1000 S.Y.
FORMULA B (PERMANENT SEED MIXTURE) • PERENNIAL RYE GRASS MIXTURE NO ONE VARIETY EXCEEDING 50% OF TOTAL RYE GRASS COMPONENT	20	98/90	0.10	42.0 TOT. 8.5
• CREEPING RED FESCUE / CHEWINGS FESCUE	30	98/85	0.10	12.5
KENTUCKY BLUEGRASS MIXTURE – • NO ONE VARIETY EXCEEDING 50% OF TOTAL BLUEGRASS COMPONENT	50	98/80	0.15	21.0
FORMULA E (TEMPORARY SEED MIXTURE) • ANNUAL RYE GRASS (LOLIUM MULTIFLORUM)	100	95/90	0.10	10.0 TOT.
FORMULA D • TALL FESCUE (FESTUCA ARUNDINACEA VAR. KENTUCKY 31)	60	96/85	0.15	50.0 TOT. 30.0
• CREEPING RED FESCUE / CHEWINGS FESCUE	30	98/85	0.15	15.0
FORMULA L MIX • HARD FESCUE MIXTURE (FESTUCA LONGIFOLIA) A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL HARD FESCUE COMPONENT.	55	97/85	0.10	48.0 TOT. 26.4
• CREEPING RED FESCUE (FESTUCA RUBRA) (IMPROVED AND CERTIFIED)	35	97/85	0.10	16.8
• ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	10	95/90	0.10	4.8
FORMULA W WETLAND CONSERVATION MIX • TALL FESCUE (FESTUCA ARUNDINACEA VAR. KENTUCKY 31)	30	96/85	0.10	15.0 TOT. 4.5
• BIRDSFOOT TREFOIL (LOTUS CORNICULATUS)	10	92/80*	0.10	1.5
• REDTOP (AGROSTIS ALBA)	24	85/70	0.20	1.5
• VIRGINIA WILD RYE (ELYMUS VIRGINICUS)	10	92/80	0.20	3.6
• TIoga DEERTONGUE (PANICUM CLANDESTINUM)	14	95/80	0.20	2.1
• FOX SEDGE (CAREX VULPINOIDES)	12	85/60	0.20	1.8

\*INCLUDING HARDSEED AND NORMAL SEEDLINGS.

APPLY SOIL SUPPLEMENTS IN ACCORDANCE WITH PUB. 408 AND AS FOLLOWS:

PULVERIZED AGRICULTURAL LIMESTONE – 800 LBS. PER 1000 S.Y.  
10–20–20 ANALYSIS COMMERCIAL FERTILIZER – 140 LBS. PER 1000 S.Y.  
38–0–0 UREAFORM FERTILIZER – 50 LBS. PER 1000 S.Y.  
OR  
32–0–0 TO 38–0–0 SULFUR – 59 TO 50 LBS. PER 1000 S.Y.  
COATED UREA FERTILIZER  
OR  
31–0–0 IBDU FERTILIZER – 61 LBS. PER 1000 S.Y.

APPLY MULCHING–STRAW OR MULCHING–HAY AS INDICATED AND IN ACCORDANCE WITH PUB. 408 AT THE RATE OF 1200 LBS./1000 S.Y.

FORMULA B: PERMANENT SEED MIXTURE LAWN AREAS (3:1 AND FLATTER SLOPES)

FORMULA E: TEMPORARY SEED MIXTURE

FORMULA L: STEEP SLOPES (GREATER THAN 3:1)

FORMULA D: VEGETATED SWALES

FORMULA W: WETLAND CONSERVATION MIXTURE

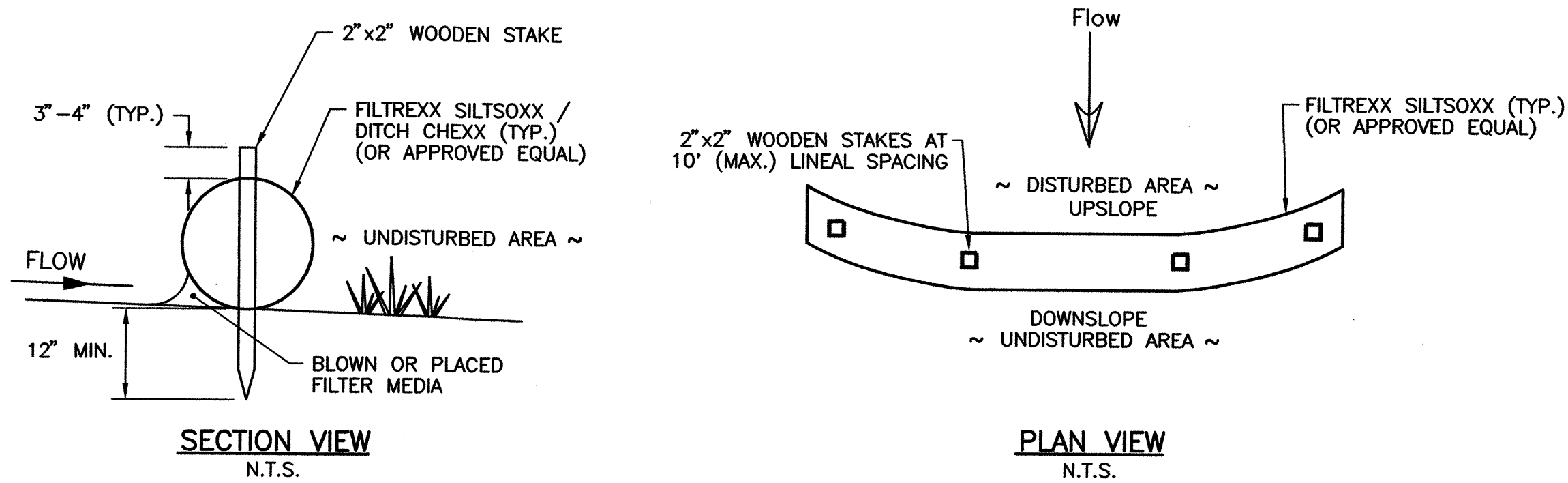
FINAL SEEDING SHALL INCLUDE 5–10% ANNUAL RYE GRASS AS A NURSE CROP.

LIME AND FERTILIZER APPLICATION RATES MAY BE ADJUSTED BASED UPON SOIL TESTING.

A COMPOST BLANKET WHICH MEETS THE STANDARDS OF THE PA DEP "EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL" MAY BE SUBSTITUTED FOR THE SOIL AMENDMENTS SHOWN.

MULCH ON SLOPES OF 8% OR STEEPER SHOULD BE HELD IN PLACE WITH NETTING. LIGHTWEIGHT PLASTIC, FIBER OR PAPER NETS MAY BE STAPLED OVER THE MULCH IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

SHREDDED PAPER HYDROMULCH SHOULD NOT BE USED ON SLOPES STEEPER THAN 5%. WOOD FIBER HYDROMULCH MAY BE APPLIED ON STEEPER SLOPES PROVIDED A TACKIFIER IS USED. THE APPLICATION RATES FOR ANY HYDROMULCH SHOULD BE 2000 LB/ACRE (MIN.).

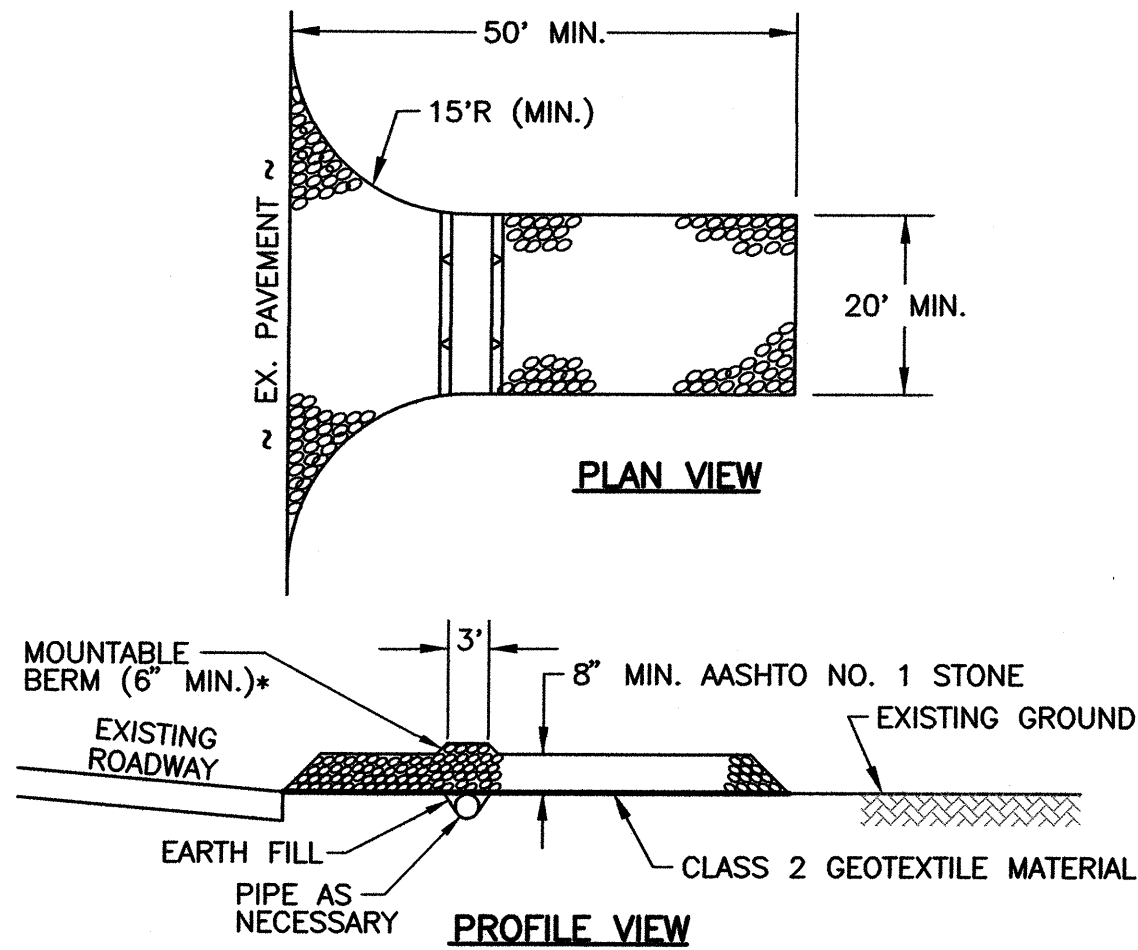


### NOTES:

- FILTER SOCK FABRIC SHALL BE IN ACCORDANCE WITH THE STANDARDS AS DEFINED IN THE PA DEP "EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL."
- TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
- PREPARE SURFACE PRIOR TO INSTALLING FILTER SOCKS, INCLUDING REMOVAL OF HEAVY VEGETATION.
- INSTALL FILTER SOCKS IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- 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.
- UPON STABILIZATION OF THE AREA TRIBUTARY TO THE FILTER SOCK, THE 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 AND STABILIZED.
- DIAMETER OF FILTER SOCKS AS SHOWN ON THE PLANS.
- BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS. PHOTODEGRADABLE SOCKS SHALL BE REPLACED AFTER ONE YEAR, AND HEAVY-DUTY POLYPROPYLENE SOCKS SHALL BE REPLACED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL OF THE LISTED REPLACEMENT TIME PERIODS ARE MAXIMUMS, AND SHALL BE REPLACED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, AS APPLICABLE.

### FILTER SOCK DETAIL

N.T.S.



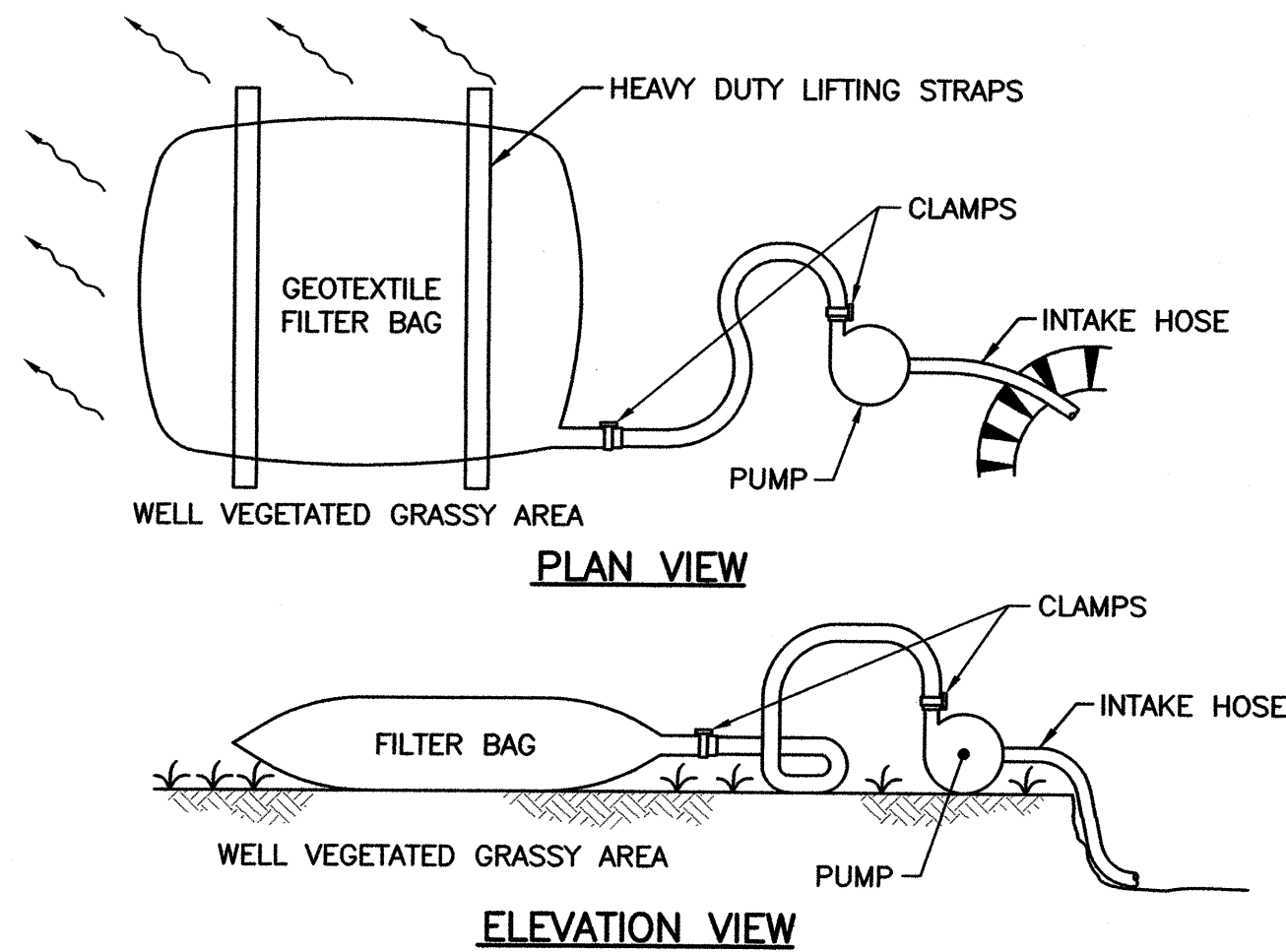
\* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE

### NOTES:

- INSTALL ROCK CONSTRUCTION ENTRANCE AS SHOWN ON PLANS.
- REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE.
- ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON-SITE FOR THIS PURPOSE.
- ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY.
- IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON THE ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FEET INCREMENTS UNTIL THE CONDITION IS ALLEVIATED OR INSTALL A WASH RACK.
- WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWER, CULVERTS OR OTHER DRAINAGEWAYS IS NOT ACCEPTABLE.

### ROCK CONSTRUCTION ENTRANCE

N.T.S.



### NOTES:

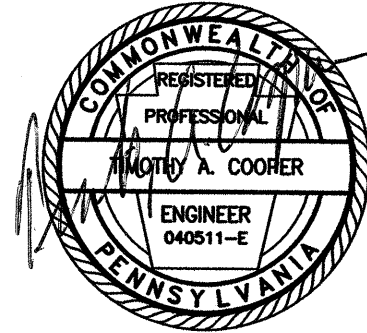
- LOW-VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL WITH HIGH STRENGTH, DOUBLE-STITCHED "J" TYPE SEAMS, AND SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.
- HIGH-VOLUME FILTER BAGS MAY BE MADE FROM WOVEN GEOTEXTILE MATERIAL MEETING THE STANDARDS AS DEFINED IN THE PA DEP "EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL."
- A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED.
- FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT.
- SPARE BAGS SHALL BE KEEP AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED.
- BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.
- BAGS SHALL BE LOCATED IN WELL-VEGETATED AREAS, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED.
- BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY.
- BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE THE SLOPE STEEPNESS.
- A COMPOST BERM OR FILTER SOCK SHOULD BE INSTALLED BELOW FILTER BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE A GRASSY AREA IS NOT AVAILABLE.
- A COMPOST BERM OR FILTER SOCK SHALL BE PLACED BELOW ANY BAG DISCHARGING TO A SPECIAL PROTECTION SURFACE WATER.
- THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED.
- THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR ONE-HALF THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHOULD BE FLOATING AND SCREENED.
- FILTER BAGS SHALL BE INSPECTED DAILY, AND IF ANY PROBLEM IS DETECTED WITH THE FILTER BAG, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

### FILTER BAG DETAIL

N.T.S.



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Project Name:

GRIFFITH'S FIELD CSO  
ABANDONMENT PROJECT

CONTRACT 2020-1

CAMBRIA TOWNSHIP  
CAMBRIA COUNTY, PENNSYLVANIA

## AS-BID

### Revisions:

No.	Date	Description
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Sheet Title:

## EROSION & SEDIMENTATION CONTROL DETAILS

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