

Public Notice

U.S. Army Corps of Engineers

Pittsburgh District

In Reply Refer to Notice No. below US Army Corps of Engineers, Pittsburgh District 1000 Liberty Avenue Pittsburgh, PA 15222-4186

Closing Date: May 18, 2017

Application No. 2017-554 Date: April 18, 2017

Notice No. 17-23

1. <u>TO ALL WHOM IT MAY CONCERN</u>: The following application has been submitted for a Department of the Army Permit under the provisions of Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act.

2. <u>APPLICANT</u>: Norfolk Southern Corporation

1200 Peachtree Street, NE

Atlanta, GA 30309

- 3. <u>LOCATION</u>: Along the right bank of the Ohio River, river mile 10.75, Glen Osborne Borough, Allegheny County, Pennsylvania.
- 4. <u>PURPOSE AND DESCRIPTION OF WORK</u>: The applicant proposes to stabilize approximately 600 feet of a severely eroded railroad embankment along the Fort Wayne Line, right bank of the Ohio River, mile 10.75. The method of stabilization being proposed is a flatten slope method by the placement of fill. The toe of the slope above the normal pool elevation of 692.0 feet, will be protected by constructing a gabion wall and re-aligning some of the existing concrete ties just up gradient of the gabions. Compacted structural fill material such as C 23, 12 to 24" riprap protection will be placed on the lower and mid elevations and C 2, 6 to 18" riprap protection on the upper elevation, will be placed to reduce the slope angle of the steep slope to 1.5 H; 1V or flatter. Drawings of the proposed bank stabilization are attached to this notice.
- 5. <u>ENCROACHMENT PERMIT</u>: The applicant must obtain a Water Obstruction and Encroachment Permit which includes 401 Water Quality Certification from the:

Pennsylvania Department of Environmental Protection Southwest Regional Office Waterways and Wetlands Section 400 Waterfront Drive Pittsburgh, PA 15222-4745

Telephone: 412-442-4000

consultant, USFWS #2016-0470.

- 6. <u>IMPACT ON NATURAL RESOURCES</u>: The District Engineer has consulted the most recently available information and has determined that the project may affect, but is not likely to adversely affect endangered species or threatened species, or result in destruction or adverse modification of habitat of such species which has been determined to be critical. This Public Notice serves as a request to the U.S. Fish and Wildlife Service for any additional information they may have on whether any listed or proposed to be listed endangered or threatened species may be present in the area which would be affected by the activity, pursuant to Section 7(c) of the Endangered Species Act of 1972 (as amended).

 If the U.S. Fish and Wildlife Service concurs with the may affect, not likely to adversely affect determination please respond with written concurrence. Pennsylvania Natural Diversity Inventory Project Search ID: 20160114545452 and March 22, 2016, USFWS e-mail to
- 7. <u>IMPACT ON CULTURAL RESOURCES</u>: The National Register of Historic Places has been consulted, and it has been determined that there are no properties currently listed on the register which would be directly affected by the proposed work. If we are made aware, as a result of comments received in response to this notice, or by other means, of specific archeological, scientific, prehistorical, or historical sites or structures which might be affected by the proposed work, the District Engineer will immediately take the appropriate action necessary pursuant to the National Historic Preservation Act of 1966 Public Law 89-665 as amended (including Public Law 96-515). Pennsylvania State Historic Preservation Office, February 3, 2016 letter, file number ER 2016-0639-003-A.
- 8. <u>PUBLIC INVOLVEMENT</u>: Any person may request, in writing, within the comment period specified in the paragraph below entitled "RESPONSES," that a public hearing be held to consider this application. The requests for public hearing shall state, with particularity, the reasons for holding a public hearing.
- 9. **EVALUATION**: Interested parties are invited to state any objections they may have to the proposed work. The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposals must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people. The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to

CELRP-OP-F Public Notice No. 17-23

issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the overall public interest of the proposed activity. The evaluation of the impact of the activity on the public interest will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency, under the authority of Section 404(b) of the Clean Water Act (40 CFR Part 230).

10. <u>RESPONSES</u>: A permit will be granted unless its issuance is found to be contrary to the public interest. Written statements concerning the proposed activity should be received in this office on or before the closing date of this Public Notice in order to become a part of the record and to be considered in the final determination. Any objections which are received during this period may be forwarded to the applicant for possible resolution before the determination is made whether to issue or deny the requested DA Permit. All responses to this notice should be directed to the Regulatory Branch, attn. George Brkovich at the above address, by telephoning (412) 395-7247, or by e-mail at george.r.brkovich@usace.army.mil. Please refer to CELRP-OP-F **2017-554** in all responses.

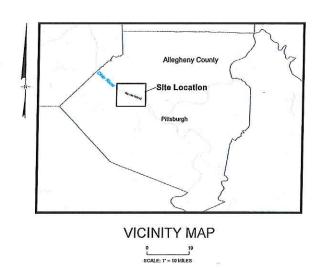
FOR THE DISTRICT ENGINEER:

// SIGNED //

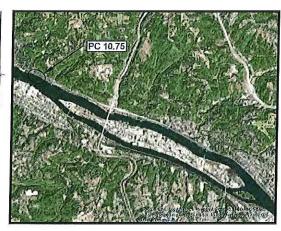
Jon T. Coleman Chief, Southern Section Regulatory Branch Pittsburgh District

BANK STABILIZATION AND RESTORATION PLAN - PC 10.75 NORFOLK SOUTHERN RAIL CORPORATION FORT WAYNE LINE

ALLEGHENY COUNTY, PENNSYLVANIA JANUARY 2017



DRAWING NUMBER	DRAWING TITLE
1	TITLE SHEET AND LIST OF DRAWINGS
2	SITE PLAN
3	EXISTING CONDITIONS
4	PROPOSED CONDITIONS
5	SITE CROSS SECTIONS
6	BANK STABILIZATION AND RESTORATION SECTIONS
7	EROSION AND SEDIMENT CONTROL PLAN
8	EROSION AND SEDIMENT CONTROL DETAILS
9	EROSION AND SEDIMENT CONTROL NOTES



LOCATION MAP

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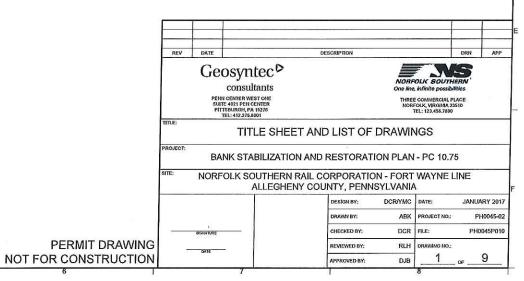
DETAIL IDENTIFICATION LEGEND

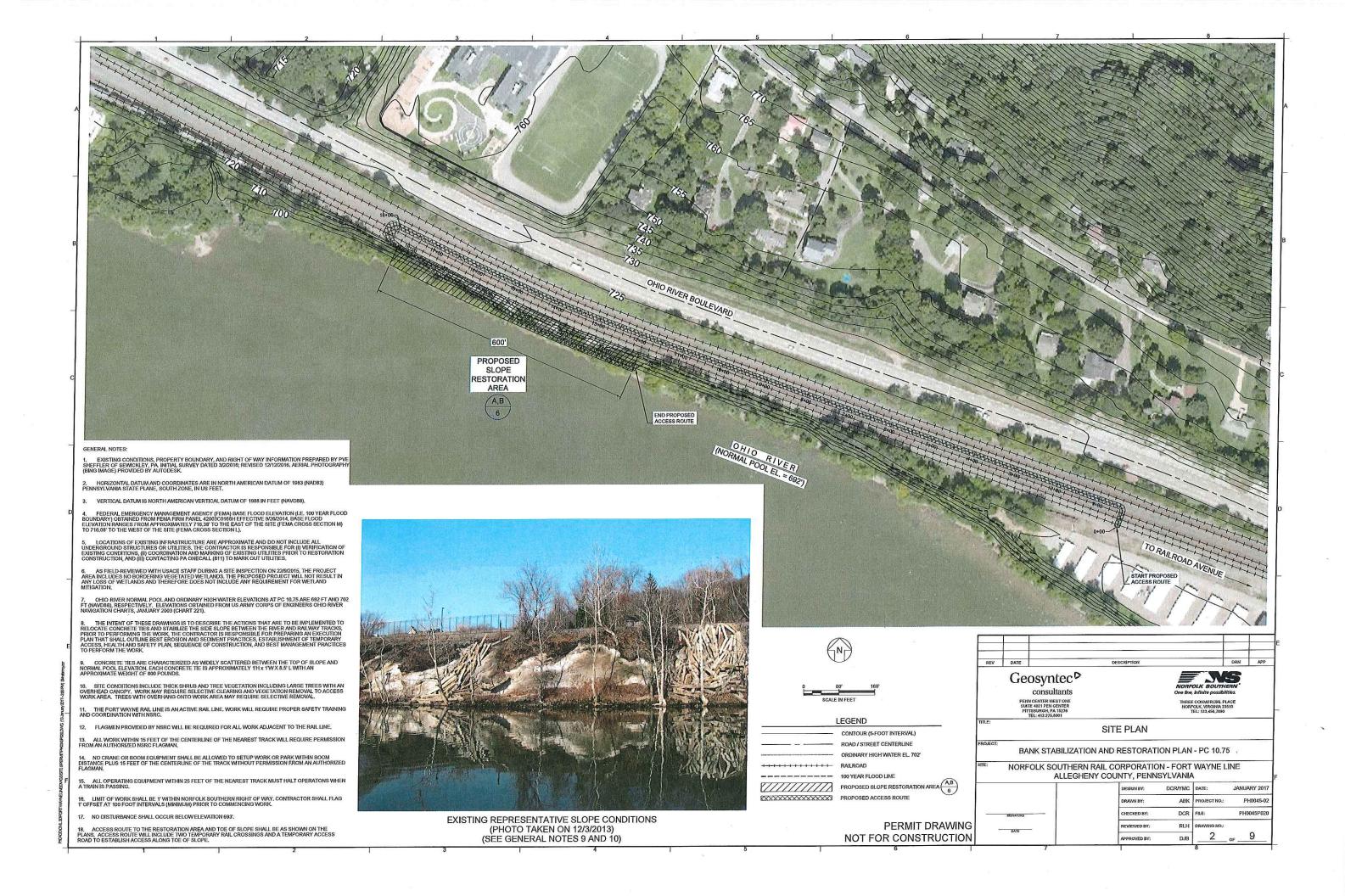


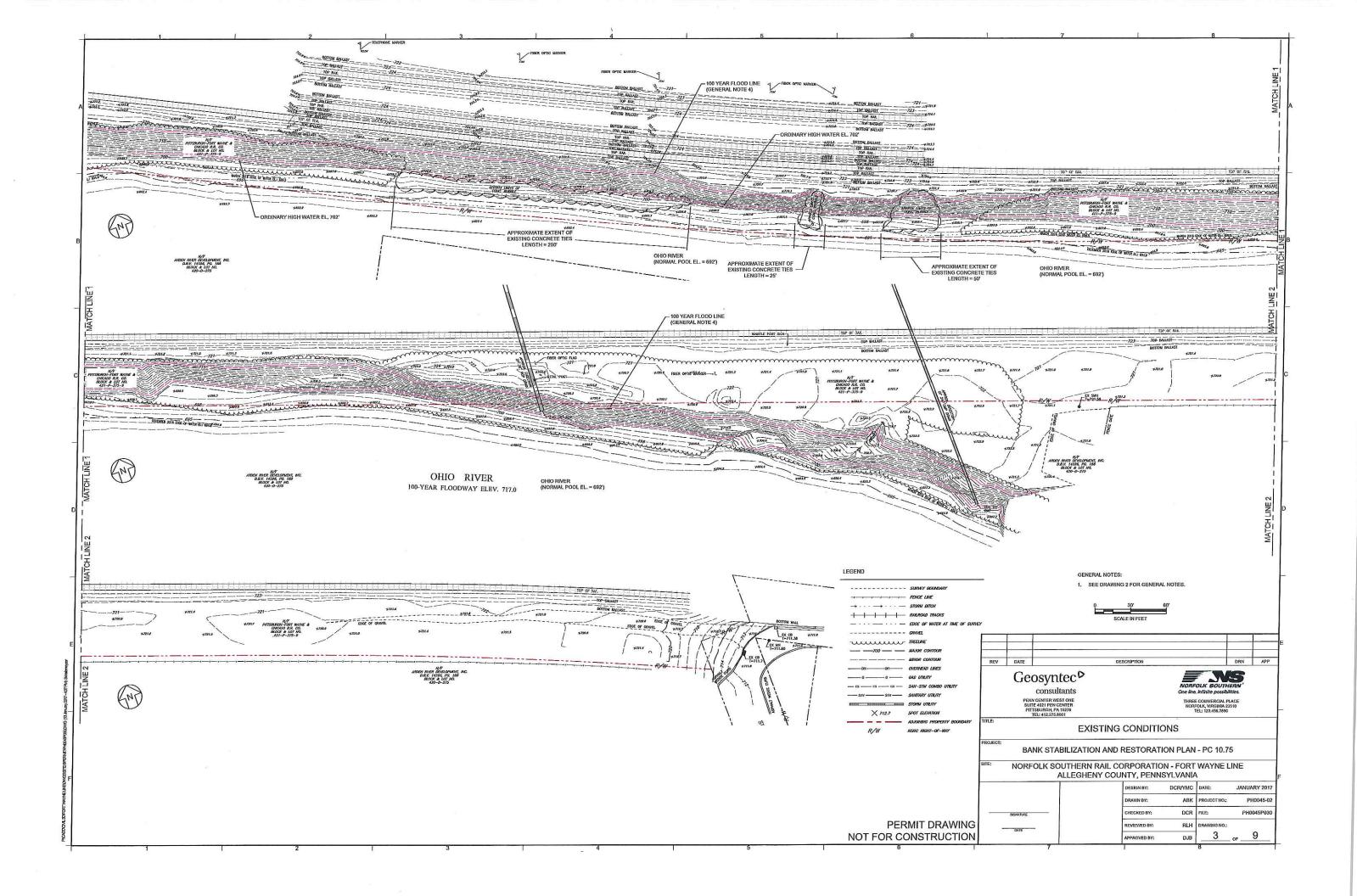


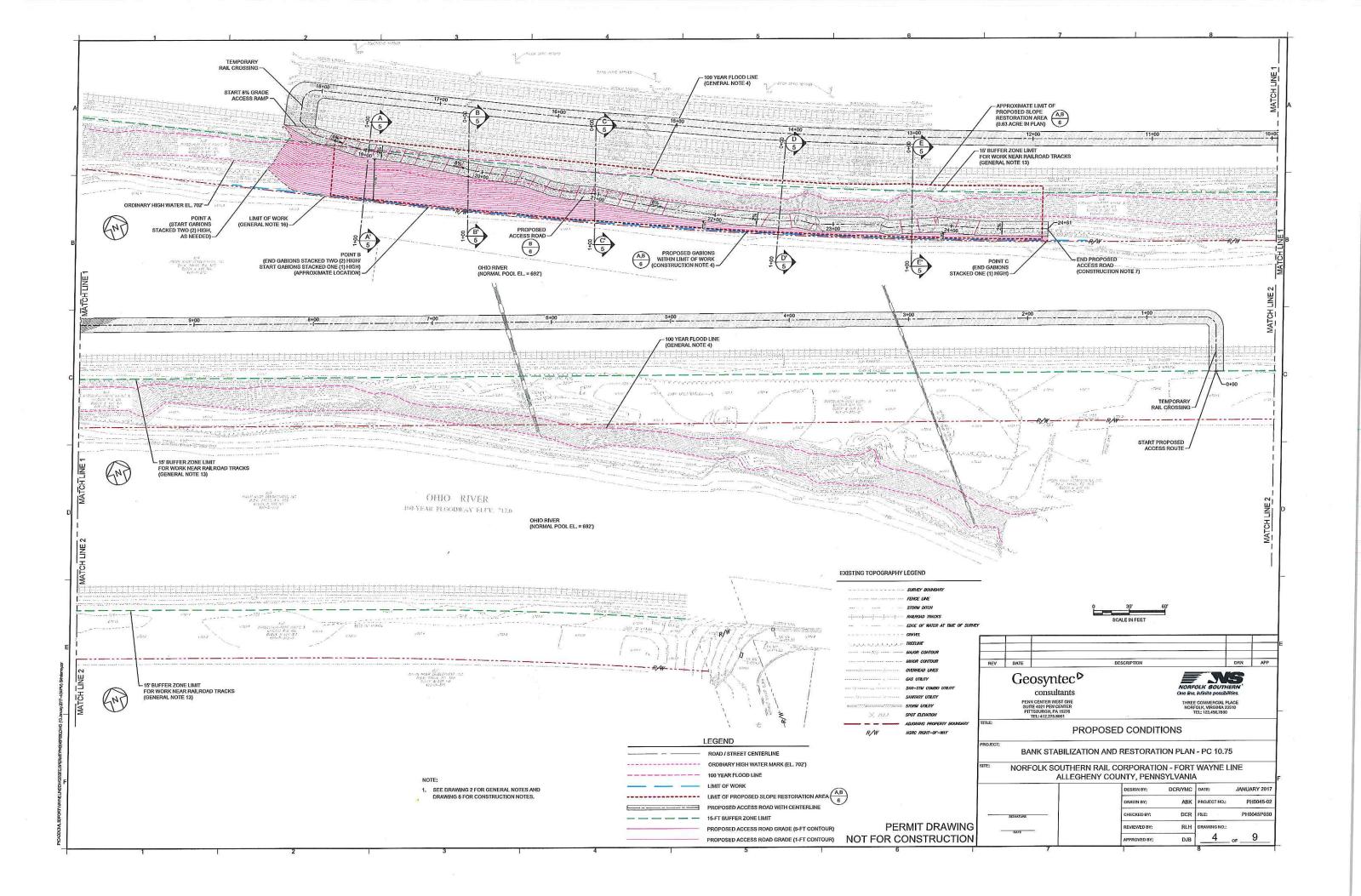
EXAMPLE: DETAIL ID B PRESENTED ON DRAWING NO. 6
WAS REFERENCED FOR THE FIRST TIME ON
DRAWING NO. 3.

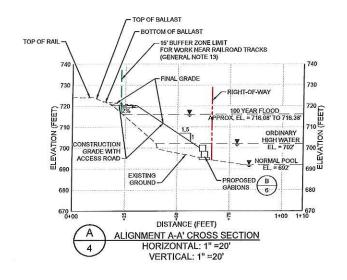
NOTE: ABOVE SYSTEM ALSO APPLIES TO SECTION IDENTIFICATIONS.

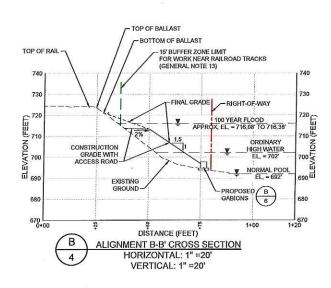


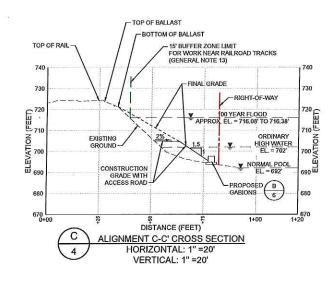


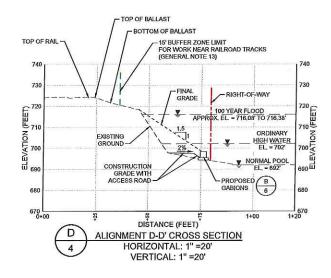


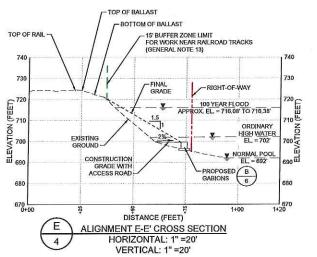






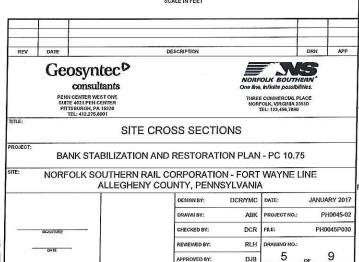






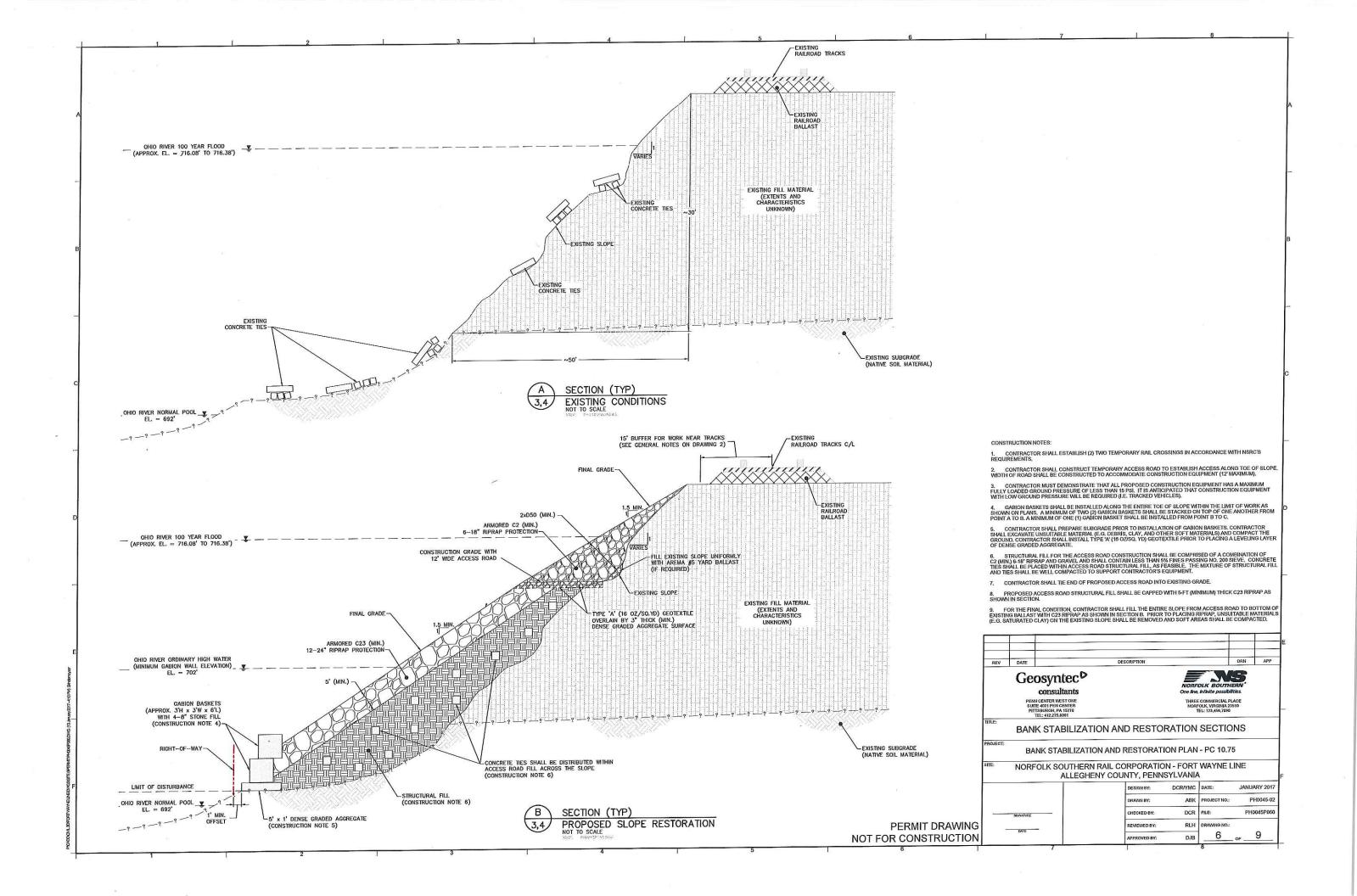
1. SEE DRAWING 2 FOR GENERAL NOTES AND DRAWING 6 FOR CONSTRUCTION NOTES.

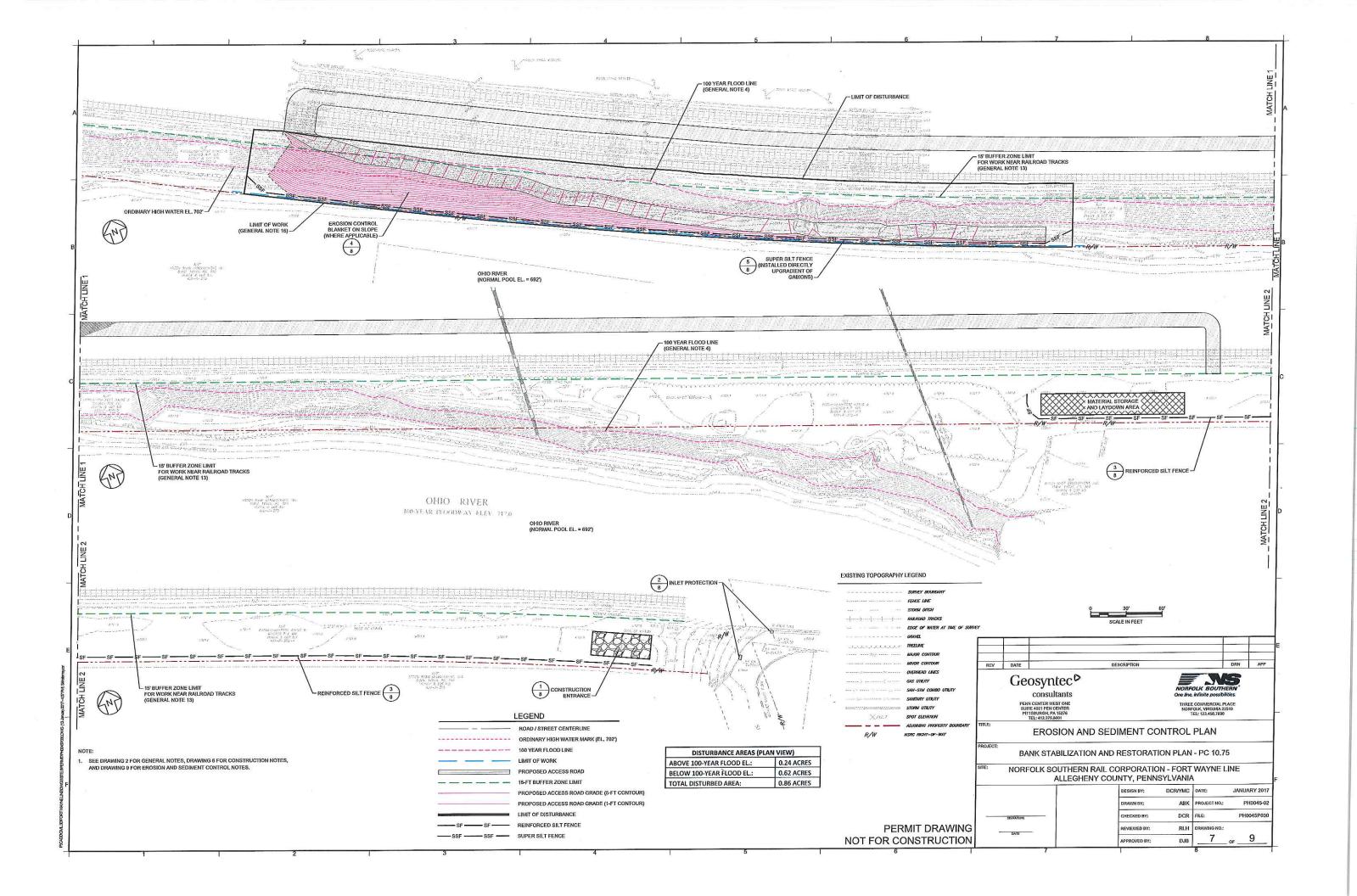


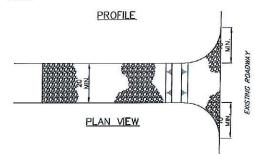


APPROVED BY:

PERMIT DRAWING NOT FOR CONSTRUCTION







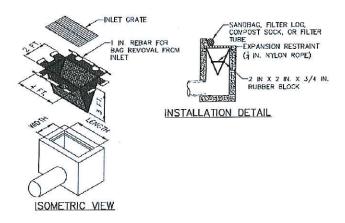
. MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE

NOTES:

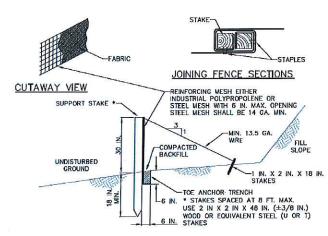
1. REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE, EXTEND ROCK OVER FULL WIDTH OF ENTRANCE,

RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR





DETAIL (TYPICAL) FILTER BAG INLET PROTECTION



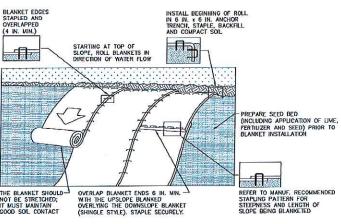
FABRIC SHALL HAVE THE MINIMUM PROPERTIES AS SHOWN IN TABLE 4.3 OF THE PAIDEP

2. FABRIC WIDTH SHALL BE 42 IN. MINIMUM. STAKES SHALL BE EQUIVALENT STEEL (U OR T). SUPPORT STAKE SHALL BE DRIVEN 12 IN, MINIMUM INTO UNDISTURBED GROUND.

SILT FENCE SHALL BE PLACED AT LEVEL EXISTING GRADE, BOTH ENDS OF THE FENCE SHALL EXTENT AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.

FENCE NO.	LOCATION	SLOPE PERCENT	SLOPE LENGTH ABOVE BARRIER (FT)	
	DOWNGRADIENT OF PROPOSED ACCESS ROAD AND SURROUNDING MATERIAL LAYDOWN AREA	5%	45	

DETAIL (TYPICAL) REINFORCED SILT FENCE

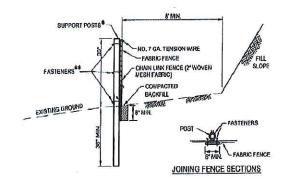


1. PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.

2. SLOPE SURFACE SHAL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.

BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH, LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL DO NOT STRETCH II ANNET WITH SOIL, DO NOT STRETCH BLANKET.

DETAIL (TYPICAL)



*POSTS SPACED @ 10' MAX USE 2 1/2' DIA HEAVY DUTY GALVANIZED OR ALUNINUM POSTS

** CHAIN LINK TO POST FASTEHERS SPACEO & 14" MAX. USE NO. 9 GA. ALUMRUM WIRE OR INO. 9 GALVANIZED STEEL PRE-FORMED CLIPS. CHAIN LINK TO TENSION WIRE FASTEMERS SPACED & 90" MAX. USE NO. 12.5 GA. GALVANIZED STEEL WIRE. FADRIC TO CHAIN FASTEMERS SPACED & 24" MAX C. TO C.

PADEP

NOTES:

1. FABRIC WIDTH SHALL BE 42' MINIMUM.

2. POST SHALL BE INSTALLED USING POSTHOLE DRILL.

3. CHAIN LINK SHALL BE GALVANIZED NO. 11.5 GA. STEEL WIRE WITH 2 %" OPENING, NO. 11 GA. ALUMINUM COATED STEEL WIRE IN ACCORDANCE WITH ASTMA-491, OR GALVANIZED NO. 9 GA. STEEL WIRE TOP AND BOTTOM WITH GALVANIZED NO. 11 GA. STEEL INTERNEDIATE WIRES. NO. 7 GAGE TENSION WIRE TO BE INSTALLED HORIZONTALLY THROUGH HOLES AT TOP AND BOTTOM OF CHAIN-LINK FENCE OR ATTACHED WITH HOG RINGS

SILT FENCE SHALL BE PLACED AT EXISTING LEVEL GRADE, BOTH ENDS OF THE FENCE SHALL BE EXTENDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO MAIN BARRIER ALIGNMENT.

5. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVEGROUND

SILT FENCE SHALL BE INSTALLED DIRECTLY UPGRADIENT OF ROCK FILLED GABIONS (TO BE INSTALLED ALONG LIMIT OF WORK) TO PROVIDE ADDITIONAL SUPPORT AND ENERGY

FENCE NO.	LOCATION	SLOPE PERCENT	SLOPE LENGTH ABOVE BARRIER (FT)
2	DOWNGRADIENT OF SLOPE RESTORATION AREA	> 50%	50





Rule of thumb: If you are seeing a lot of bare ground, there is not enough straw. (Caution: Too much straw can be as harmful as too little straw.)

Mulches should be applied at the rates shown in Table 11 6

Straw and hay much should be anchored or tackfiled immediately after application to prevent being windblown. A tractor-drawn implement may be used to "crimp" the straw or hay into the soil — about 3 inches. This method should be limited to slopes no steeper than 3H.1V. The machinery should be ed on the contour. Note: Crimping of hay or straw by running over it with tracked machinery is

Polymerio and gum tackrifiers mixed and applied according to manufacturer's recommendations may be used to tack mulch. Avoid application during rain and on windy days. A 24-hour curing period and a soil temperature higher than 45° F are typically required. Application should generally be heaviest at edges of seeded areas and at crests of noges and banks to prevent loss by wind. The remainder of the area should have binder applied uniformly. Binders may be applied after mulch its spread or sprayed into the mulch as it is being blown onto the soil. Applying straw and binder together is generally more effective.

TABLE 11.6 Mulch Application Rates

		Application Rate (M				
Mulch Type	Per Acre	Per 1,000 sq. ft.	Per 1,000 sq. yd.	Notes Either wheat or oat straw, free of weeds, not chopped or finely broken		
Straw .	3 tons	140 lb.	1,240 lb.			
Hay	3 tons	140 lb.	1,240 lb.	Timothy, mixed clover and timothy or other native forage grasses		
Wood Chips	4 - 8 tons	185 - 275 lb.	1,850 - 2,500 lb.	May prevent germination of grasses and legumes		
Hydromulch	1 ton	47 lb.	415	See limitations above		



NOTES:

1. SEE DRAWING 9 FOR EROSION AND SEDIMENT CONTROL NOTES.

	REV	DATE		DESCRIPTION			DRN	APP
	Geosyntec Consultants PENN CENTER WEST ONE SUITE AND FENT CENTER PITTS BURGH, PA 15278 TELE 142758 ADD				NORFOLK BOUTHERN' One line, Infinite possibilities. THREE COMMERCIAL PLACE NORFOLK, VIRGINIA 25510 TEL: 123-458-2890			
	TITLE	10 - 67/20400404	ION AND SED	IMENT CON	NTROL D	ETAILS		
	PROJECT;	BANK ST	ABILIZATION AN	D RESTORAT	ION PLAN	- PC 10.7	5	
	SITE: NORFOLK SOUTHERN RAIL CORPORATION - FORT WAYNE LINE ALLEGHENY COUNTY, PENNSYLVANIA							
				DESIGN BY:	DCR/YMC	DATE:	JANUAF	RY 2017
				DRAWN BY:	ABK	PROJECT NO.:	PH	0045-02
		SKHATURE		CHECKED BY:	DCR	FILE:	PH00	45P080
PERMIT DRAWING		DATE		REVIEWED BY:	RLH	DRAWING NO.:	V-2	
NOT FOR CONSTRUCTION				APPROVED BY:	DJB	8	OF	<u> </u>

EROSION CONTROL BLANKET

THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

- 1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL, PLAN (ESCP), A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES, THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- 2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE ESCP PREPARER, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING,
- 3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- 4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED IN THE CONTRACTOR'S APPROVED EXECUTION PLAN, DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
- AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
- 6. CLEARING, GRUBBING, AND STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING GRUBBING AND STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNIT. THE EROSION AND SEDIMENT CONTROL BMPS SPECIFIED IN THE SEQUENCE OF CONSTRUCTION FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE TUNITIONING AS DESCRIBED IN THIS ESCY.
- 7. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED IN THE FIELD USING HIGHLY VISIBLE FLAGGING OR ORANGE CONSTRUCTION FENCING BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
- 8. IF REQUIRED, VEGETATIVE SUPPORT MATERIAL 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 HAVE PERIMETER SEDIMENT CONTROL INSTALLED ON THE DOWN GRADIENT SIDE OF THE PILE. STOCKPILE HEIGHTS SHALL NOT EXCEED 20 FEET. STOCKPILE SLOPES SHALL BE 21-YOR FLATTER.
- 9. 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 LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
- 10. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA, CODE 260. ET SEQ., 271.1, AND 287.1 ET. SEQ., NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- 11. ALL OFF-SITE WASTE AND BORROW AREAS MUST BE LICENSED AND HAVE VALID APPLICABLE
- 12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL, FORM FP-601 MIST 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 DIET TO ABMY TICAL TESTING.
- 13. IF REQUIRED, ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THE CONTRACTOR'S APPROVED EXECUTION PLAN IN A MANNER THAT IS CONSISTENT WITH THIS ESCP. OVER UNDISTURBED VEGETATED AREAS,
- 14. UNTIL THE SITE IS STABILIZED (I.E., AT LEAST 70% VEGETATION COVERAGE OR STABILIZED WITH HARD ARMOR), ALL EROSION AND SEDIMENT CONTROL BMPS SHALL BE MAINTAINED ACCORDING TO THIS PLAN AND THE PENNSYLVANIA EROSION AND SEDIMENT CONTROL MANUAL. 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.
- 15. A LOG SHOWING DATES THAT EAS 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.
- 16. SEDIMENT TRACKED BEYOND SITE'S LIMITS OF DISTURBANCE AND ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- 17. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
- 18. AREAS WHICH ARE TO BE 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 3 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING, FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
- 19. 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
- 20, IF REQUIRED, ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- 21. IF REQUIRED, 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.
- 2. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE VCORPORATED INTO FILLS.
- 23. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- 24. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- 25, ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE, CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN
- 26. 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.

- 27. 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.
- 28. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNIT. THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
- 29. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE EAS BMPS,
- 30. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS, AREA 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 (I.E., APRIL 15 THROUGH JUNE 16 AND SEPTEMBER 15 THROUGH NOVEMBER 16).
- 31. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
- 32. FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF EAS BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW PREAMS 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.

B. ADDITIONAL NOTES

- 1. CONTRACTOR SHALL MINIMIZE THE AMOUNT OF DISTURBED AREAS AT ALL TIMES DURING CONSTRUCTION TO REDUCE THE RISK OF EROSION.
- 2. THIS PROJECT DOES NOT INCLUDE ANY PERMANENT HYDRAULIC BMPS (E.G., CHANNELS) AND THE EXISTING DRAINAGE PATTERNS WILL NOT BE AFFECTED BY THE CONSTRUCTION ACTIVITIES.

C. STABILIZATION

- 1. UPON FINAL COMPLETION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY; OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE ACTIVITY, OR ANY STAGE OR PHASE OF AN ACTIVITY WHERE THE CESSATION OF EARTH DISTURBANCE WILL EXCEED FOUR (4) DAYS, THE PROJECT SITE SHALL BE IMMEDIATELY STABILIZED IN ACCORDANCE WITH THE REQUIREMENTS OF 25 PA. CODE §10.22(A) OR (8) (RELATING TO SITE STABILIZATION), AS APPLICABLE. EAS BIMPS SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED, ONCE PERMANENT STABILIZATION HAS BEEN ESTABILISHED THE TEMPORARY EAS BIMPS SHALL BE REMOVED, ANY AREAS DISTURBED IN THE ACT OF REMOVING TEMPORARY EAS BIMPS SHALL BE PERMANENTLY STABILIZED UPON COMPLETION OF THE TEMPORARY EAS BIMPS SHALL BE PERMANENTLY STABILIZED UPON COMPLETION OF THE TEMPORARY EAS BIMP REMOVAL ACTIVITY.
- CONTRACTOR SHALL STABILIZE AREAS TO BE REVEGETATED WITH SEED MIXTURE 3
 (BIRDSFOOT TREFOIL AT 6 LB/ACRE PURE LIVE SEED AND TALL FESCUE AT 30 LB/ACRE PURE LIVE
 SEED) IN ACCORDANCE WITH TABLE 11.4 FROM THE PENNSYLVANIA DEPARTMENT OF
 ENVIRONMENTAL PROTECTION EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL
- 3. CONTRACTOR SHALL APPLY MULCH AFTER SEEDING, CONTRACTOR SHALL APPLY EROSION CONTROL BLANKET, STRAW OR HAY MULCH AT THREE TONS/ACRE (MINIMUM), OR HYDROMULCH AT ONE TON/ACRE (MINIMUM).
- A. EROSION CONTROL BLANKET SHALL BE USED ON ANY DISTURBED AREA TO BE REVEGETATED WITHIN 50 FT OF THE OHIO RIVER, ON SLOPES 3(H):1(V) OR STEEPER AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
- B, STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKIFIED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN. A TRACTOR-DRAWN IMPLEMENT MAY BE USED TO 'CRIMP' THE STRAW OR HAY INTO THE SOIL 3 INCHES (MINIMUM). THIS METHOD SHOULD BE LIMITED TO SLOPES NO STEEPER THAN 3H:1V. THE MACHINERY SHOULD BE OPERATED ON THE CONTOUR.
- C. POLYMERIC AND GUM TACKIFIERS MIXED AND APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS MAY BE USED TO TACK MULCH.
- D. MULCH ON SLOPES OF 8% OR STEEPER SHALL BE HELD IN PLACE WITH NETTING, LIGHTWEIGHT PLASTIC, FIBER, OR PAPER NETS MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- E, SHREDDED PAPER HYDROMULCH SHALL NOT BE USED ON SLOPES STEEPER THAN 5%.
- F. WOOD FIBER HYDROMULCH MAY BE APPLIED ON STEEPER SLOPES PROVIDED A TACKIFIER IS USED.

D. INSPECTION AND MAINTENANCE SCHEDULE

- 1, UNTIL THE SITE IS STABILIZED (I.E., AT LEAST 70% VEGETATION COVERAGE OR STABILIZED WITH HARD ARMOR), ALL EROSION AND SEDIMENT CONTROL EMPS SHALL BE MAINTAINED ACCORDING TO THIS PLAN AND THE PENNSYLVANIA EROSION AND SEDIMENT CONTROL MANULA, MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY SASIS, ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY, IF THE EAS BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
- 2. A LOG SHOWING DATES THAT EAS 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.
- 3. BMP MAINTENANCE SHALL OCCUR AT THE FOLLOWING INTERVAL AND OCCURRENCES, AT MINIMUM.
- ROSION CONTROL BLANKET
- I. BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA.
- II. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN FOUR (4) CALENDAR DAYS.
- B. ROCK CONSTRUCTION ENTRANCE
- I. ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK,
- II. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY,
- . SILT FENCE
- I. DAMAGED SILT FENCE SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
- II. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVEGROUND HEITH OF THE SILT FENCE AND SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE OWNER'S REPRESENTATIVE.

E. FILTER BAG INLET PROTECTION

I, INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT.

II. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET.

III. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED

4. SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE OWNER'S REPRESENTATIVE.

E. CONSTRUCTION SEQUENCE

(THE FOLLOWING SEQUENCE IS INTENDED AS A GUIDE FOR THE CONTRACTOR. THE CONTRACTOR SHALL PREPARE A SEQUENCE OF CONSTRUCTION AND SUBMIT TO NISCA AND OWNER'S REPRESENTATIVE AT LEAST 14 DAYS PRIOR TO MOBILIZATION FOR CONSTRUCTION.)

- 1. POST APPLICABLE PERMIT DOCUMENTATION AT A VISIBLE LOCATION AT THE ENTRANCE OF THE
- 2. PHOTO DOCUMENT EXISTING CONDITIONS OF THE PROJECT AREA INCLUDING RAILROAD AVENUE.
- 3. STAKE/FLAG THE LIMITS OF DISTURBANCE, LIMIT OF WORK, AND 15' BUFFER ZONE LIMIT PROMINENTLY. THESE LIMITS MUST REMAIN CONSPICUOUSLY MARKED FOR THE DURATION OF CONSTRUCTION.
- 4. INSTALL THE ROCK CONSTRUCTION ENTRANCE AND FILTER BAG INLET PROTECTION.
- 5. INSTALL REINFORCED SILT FENCE AT THE MATERIAL STORAGE AREA DESIGNATED BY THE CONTRACTOR.
- INSTALL TEMPORARY RAILROAD CROSSINGS
- 7. INSTALL GABIONS ALONG TOE OF SLOPE
- 8. THE CONTRACTOR SHALL MINIMIZE THE AMOUNT OF DISTURBANCE AT ANY ONE TIME,
- 9. INSTALL PERIMETER CONTROL SUPER SILT FENCE DIRECTLY UPGRADIENT OF GABIONS AS
- 10. PERFORM CLEARING AND GRUBBING ACTIVITIES.
- 11. PERFORM SLOPE RESTORATION ACTIVITIES INCLUDING PLACEMENT OF STRUCTURAL FILL, INSTALLATION OF ACCESS ROAD, AND ARMORING.
- 12. PERMANENTLY STABILIZE DISTURBED AREAS, FINAL STABILIZATION SHALL BE OBTAINED (I.E., PLACEMENT OF STONE AND RIPRAP ARMORING) AS SOON AS PRACTICABLE BUT NO MORE THAN 3 DAYS AFTER REACHING FINAL GRADE.
- 13. REMOVE ALL REMAINING TEMPORARY SEDIMENT CONTROL BMPS AND RETURN SITE TO PRE-EXISTING CONDITIONS.
- 14. PHOTO DOCUMENT AND SURVEY THE AS-BUILT CONDITION INCLUDING RAILROAD AVENUE,

