

ASHE ALTOONA/ PENNDOT 9-0 WORKSHOP

CONSTRUCTION UPDATE

APRIL 23, 2026

BRAD J. BRUMBAUGH, P. E.

ASSISTANT DISTRICT EXECUTIVE – CONSTRUCTION



Pennsylvania
Department of Transportation

CONSTRUCTION UNIT PERSONNEL CHANGES



Steve Beegle
TCM-2



Brian Smith
TCM-1

CONSTRUCTION UNIT PERSONNEL CHANGES

New IIC's

- Jonathan Hodge
- Current Vacancies - 1

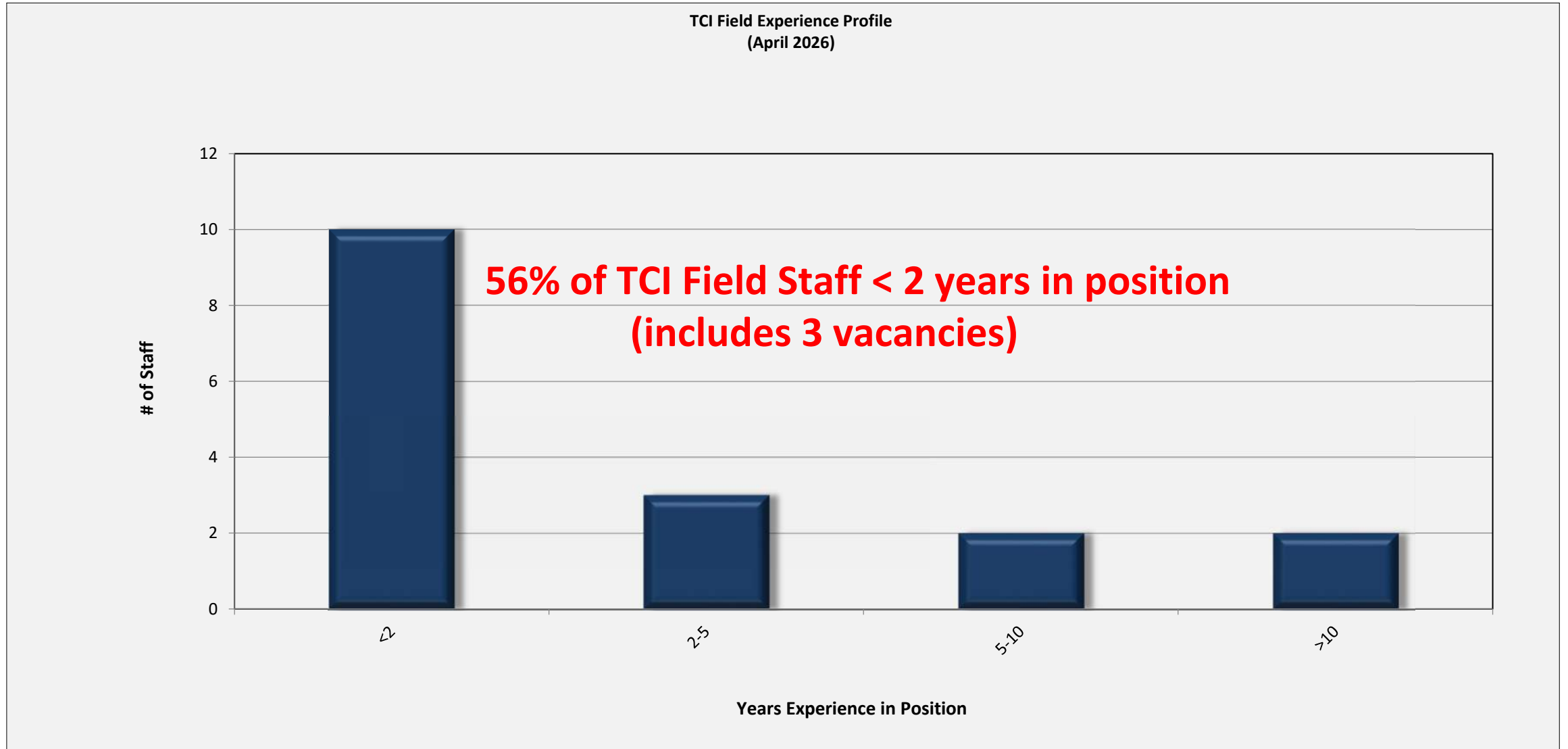
Other Vacancies

- DLCCA/TCIS
- CE Transportation

New Inspection Staff

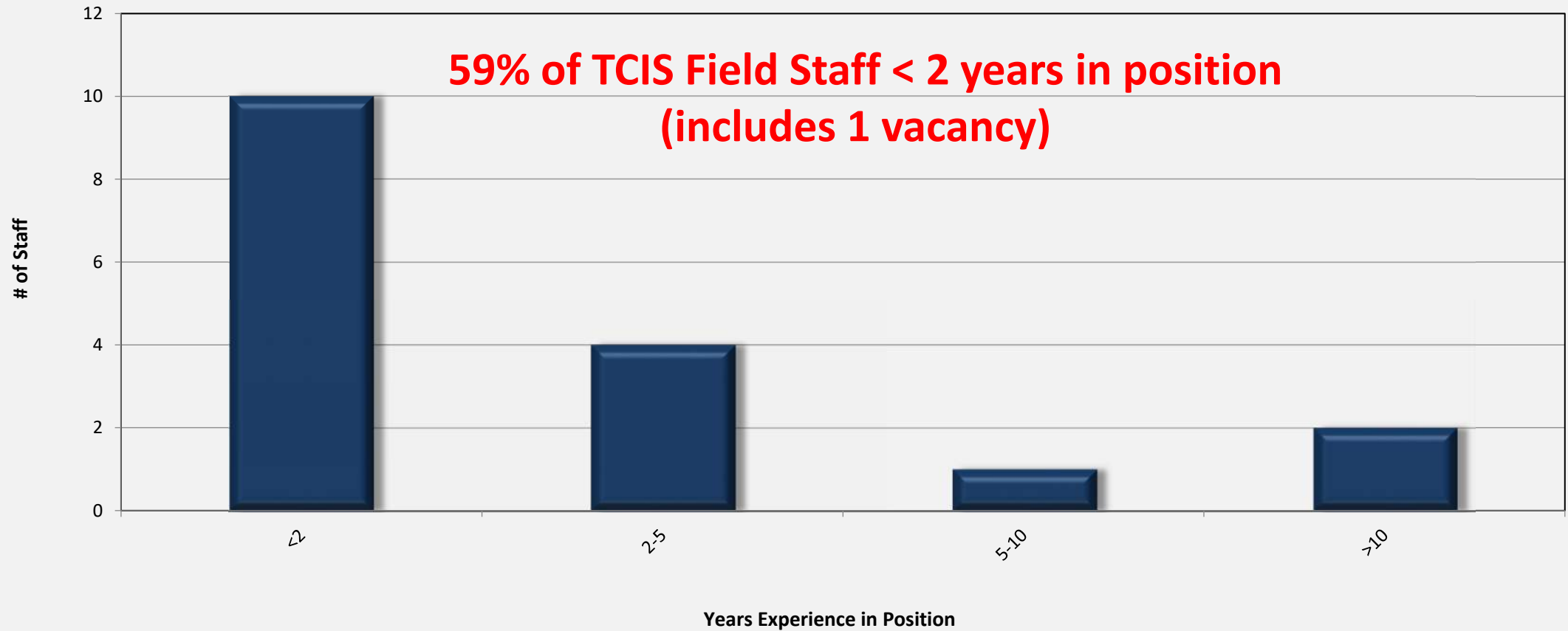
- Joseph Hart
- Eric Dively
- Tyler Luther
- Nate Mills
- Current Vacancies - 3

TCI FIELD INSPECTION STAFF - EXPERIENCE PROFILE



TCIS FIELD INSPECTION STAFF – EXPERIENCE PROFILE

TCIS Field Experience Profile
(April 2026)



Upcoming Agreement Advertisements

UPCOMING INSPECTION AGREEMENT ADVERTISEMENTS

Project Specific Agreements

- Blair County, SR 0099/027, I-99 Bald Eagle to Centre County, Winter 2026/27
- Cambria County, SR 0219/050, US 219 – PA 56 to PA 869, Fall 2026
- Somerset, SR 0219/041, US 219 – MD Line to Meyersdale Bypass, Fall 2026

Open End Agreements

- District Wide Inspection, \$3M, Spring 2027

Redundancy & Low Cost/Benefit Items in CI Workgroup

REDUNDANCY & LOW C/B WORKGROUP

Goals:

To examine and reduce redundancies and/or low C/B benefit items in construction inspection which sacrifice the 'big-picture' and core intent of project inspection which is to ensure the Department is getting a quality project

To impact future policy decisions by instilling a different perspective/thought process when potential new policies/procedures are conceived and reviewed

Team:

Each District & CQAS have one rep on the team ranging from TCIS staff and up

Brad Brumbaugh, ADE-C, District 9, Team Lead

Derin Lineman, CES, District 1

Dave Liptak, TCM-2, District 2

Clint Winner, TCIS, District 3

Ryan Vitaletti, CES, District 4

Mike Kehler, TCM-2, District 5

AJ Tener, TCM-1, District 6

Garth Bridenbaugh, Chief Materials Engineer, BOCM

Dave Valko, ACE, District 8

Shawn Sherer, ACE, District 9

Greg Schnur, SCES, District 10

Ken Buckley, TCM-2, District 11

Chris Little, CES, District 12

Derek Derr, TCM-3, CQAS

REDUNDANCY & LOW C/B WORKGROUP

Items Completed In 2025:

Eliminated requirement to use Form CS-2121 – Record of Contractor's Payrolls

Workzone Crash Reporting ~ Simplified form and POM Sections C.9.13 and C.9.14

Eliminated IIC requirement for daily PSA entry (POM Section B.1.3) under certain circumstances

Eliminated system restriction requiring Source of Supply before an inspector is able to input a PSA

Modifying Contract Time Field/Input field on Work Orders (Y/N input only)

Added attachment of CS-901 PDF to contractor deficiency notification emails

Item Completed

Elimination of Non-Movement Form (TR-478A/POM Sections B.6.5 thru B.6.7/Pub 8)

- ✓ Approved ~ part of POM, Spring 2026 edition
 - Eliminates Form TR-478A in all applications
 - Adds guidance to POM regarding minimum PSA requirements to document compaction
 - For embankments consisting of Granular Material, Type 2 and Shale, 'canned comment' added to PSA App/ECMS
 - **Contractor placed *{specified material}* from *{station to station}* in *{lift thickness}* lifts for *{embankment, subgrade, subbase, backfill, etc.}* operations. This material appears to be *{Granular Material, Type 2; Shale; or Random Material}*. The material was compacted by *{specified compaction equipment}* throughout the operation and was observed to achieve a point of non-movement under the compaction equipment. Material was in a surface damp condition and was reasonably free of any organic and/or foreign matter.**

REDUNDANCY & LOW C/B WORKGROUP

Item Completed

Elimination of CS-6 Pipe Installation & Inspection Form on Department Construction Contracts (POM & 408 revisions)

- ✓ Approved ~ part of POM and 408, Spring 2026 updates
 - Will remain in use for work performed under HOPs

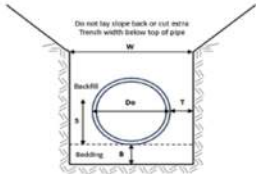
CS-6 (8-25) Pennsylvania Department of Transportation www.pa.gov/pennDOT

PIPE INSTALLATION INSPECTION FORM

(For work authorized under a Department issued Highway Occupancy Permit)

Permit # _____ County (Select One) _____ Route _____
 Segment/Offset, Side _____ to _____ Permittee _____
 Inspector _____ Contractor _____ Installation Date _____
 Description _____
 Pipe Material _____

Do not lay slope back or cut extra trench width below top of pipe



Pipe Size _____ inches
 W = Width of trench at Top of Pipe _____ foot
 Refer to RC - 30M for excavation, bedding and backfill details
 Note: Trench or shoring walls to be vertical to Top of Pipe
 B = Thickness of bedding under pipe _____ inches
 T = Outside diameter of pipe to trench wall _____ inches
 S = Coarse aggregate (2A) depth above bedding _____ inches
 Do = Outside diameter of pipe _____ inches

Trench & Bedding Checks* (Actual Field Measurements)

Check Location	T	W	B	S	Initials	Date

* Check every 50 feet, with a minimum of two checks per run.

Field Measurements (Depth - ft)	Grade Check Method (Ruler, Laser)	Backfill (Density acceptance as specified in Pub. 408, Sec. 206.3(a)3)						Inspector's Initials	Date
		Compaction Method/ Equipment	Soil or Aggregate Type	% passing 3/8" sieve	Lift Thickness (inches)	Density required	# compactor passes/lift		

Type of Joints (601-3d) _____ Joints Installed Satisfactorily? Yes No
 Materials: Certified or Tested and approved prior to incorporation into the project? Yes No
 All pavement undermining cut back and removed prior to compaction? Yes No

CS-6 (8-25)

Remarks: Record problems, soft foundations, under cuts, rock, obstructions, utilities encountered, deviations, etc. Describe and note location of existing conduits encountered, whether connected, plugged and abandoned, reconnected, etc.

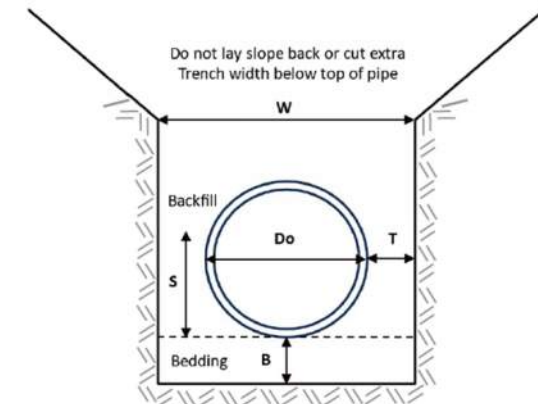
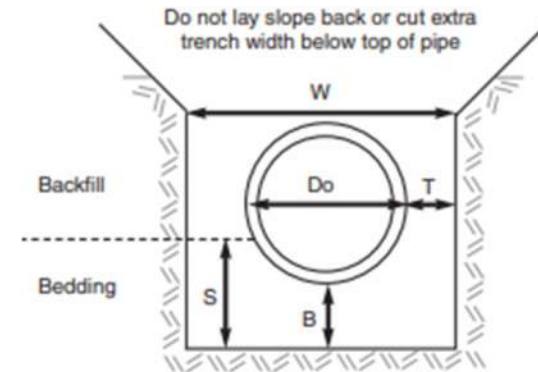
Sketch Area:



Inspector's Signature _____ Date _____

By signing below, I certify that my company performed the work, the information on both pages of this form is accurate, the work complied with Publication 408, including Section 601 and references therein, and any deviations are noted on this form.

Name (print): _____ Title: _____
 Company Name: _____
 Signature: _____ Date: _____



Specifications

“Spot the Issue”

CONSTRUCTION SPECIFICATIONS

Any issue here?

not

RULDs in the amount of **\$5,135** will be assessed for each day/or portion of day that **[REDACTED]** *SR 1021* **[REDACTED]** traffic is open to unrestricted traffic in all lanes on or before July 28, 2026, or on or after September 4, 2026. See the special provision for maintenance and protection of traffic for further clarification of the specified dates that will be used for assessment of RULDs.

Why would we assess RULDs if '*traffic is open to unrestricted traffic in all lanes*'? Missing '*not*' between '*is*' and '*open*'.

CONSTRUCTION SPECIFICATIONS

Any issue here?

Header

CONSTRUCTION RESTRICTIONS

Provision Body

All Excavation and Placement of 2RC under Cable Median Barrier must be completed prior to any paving activities.

~~Both Traffic Lanes must be paved to the same length at the end of each work day to eliminate drop off from one lane to another.~~

A drop off condition must not exist for longer than 7 days.

What is the IIC's hammer to enforce?

- CELDs?
- RULDs?
- WZLDs?

CONSTRUCTION SPECIFICATIONS

Any issue here?

Construction Restriction

No long-term lane closures are permitted between November 1 [REDACTED] and April 7 [REDACTED].

What if project gets extended into another year due to additional work, utility delay, etc.?

No need to include the specific year.

CONSTRUCTION SPECIFICATIONS

Any issue here?

Surface Preparation for bridge Epoxy Overlay, Section 1046.3(f)

No more than 24 hours before overlay placement begins, clean the bridge deck surface by shotblasting all surfaces to remove all curing compounds, loosely bonded mortar, surface carbonation, and deleterious material. Comply with the International Concrete Repair Institute (ICRI) standard for Concrete Surface Preparation (CSP) Level 5-7. Provide the necessary concrete surface profile chips to visually verify the surface preparation. Before shotblasting the entire deck surface, a test area is required. Perform shotblasting on a 5-foot by 5-foot test area. In the presence of the Representative, verify that ICRI, CSP Level 5-7 has been achieved. Do not proceed with production shotblasting until test area is accepted. After shotblasting, vacuum sweep or air wash all surfaces to remove all dust, debris, and deleterious material.

This may be fine. Just understand that ICRI, CSP 5 is significantly smoother than CSP 7, but CSP 5 is all we can enforce (and contractor will do minimum).

CONSTRUCTION SPECIFICATIONS

Pub 408 – Selective Tree Removal

SECTION 810—TREE TRIMMING AND SELECTIVE TREE REMOVAL

810.1 DESCRIPTION—This work is the removal of selected trees and shrubs, the trimming of trees and shrubs, the treatment of tree injuries, and the removal of stumps and debris.

810.2 MATERIAL—Stump or Basal Treatment Herbicide—Type 10, Class B or C, Triclopyr liquid formulations. Use either Class B – butoxyethyl ester of triclopyr and inerts or Class C – butoxyethyl ester of triclopyr in ready to use form according to PCID No. 1094 Herbicides (Weed and Brush Control) issued by the Pennsylvania Department of General Services, Bureau of Purchases, Quality Assurance Division. Conform to all current Federal and State pesticide acts and registration requirements. Furnish herbicides in the manufacturer's labeled container.

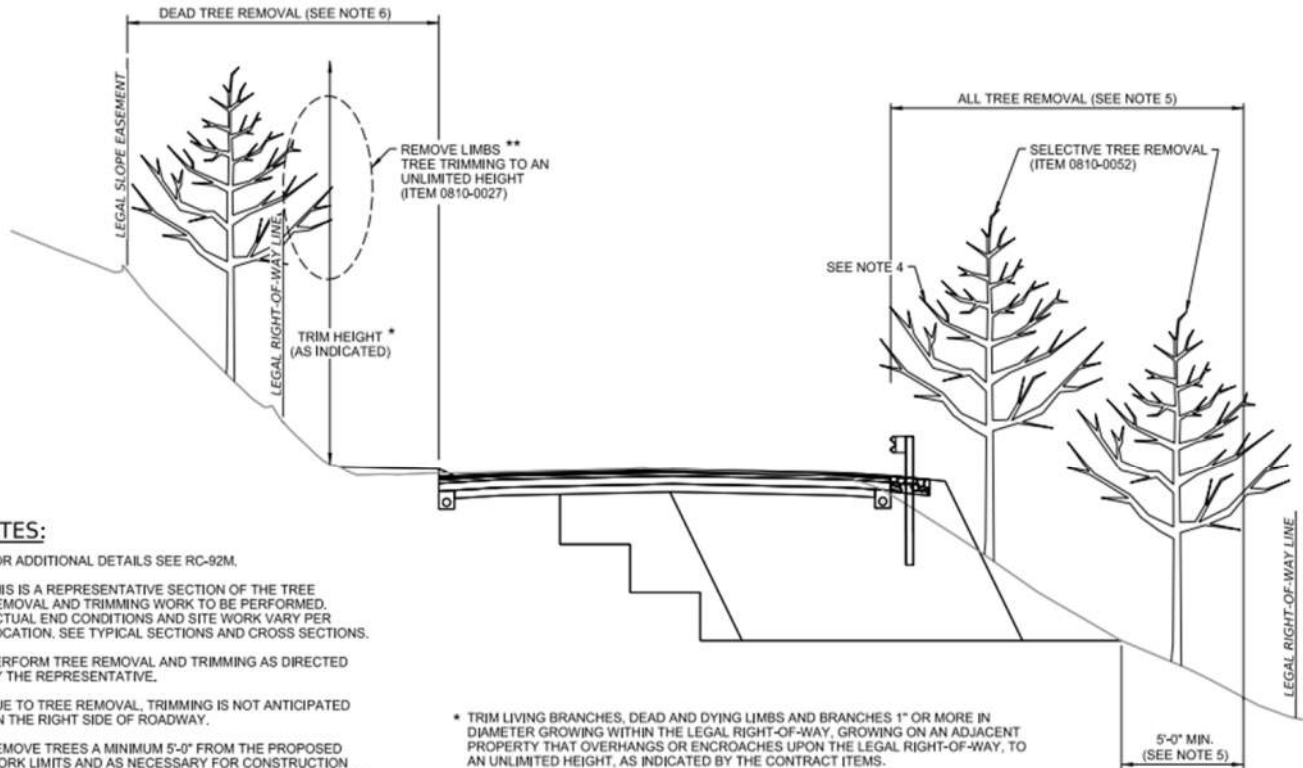
810.3 CONSTRUCTION—

(a) Tree and Shrub Removal. Trees and shrubs to be removed will be designated either by separate marking, marking in sample areas, or as otherwise identified. Where sample marking is adopted, do not disturb these sample areas until other areas are complete.

For designated trees, shrubs, and stumps, cut to the ground line or to a height of not more than 4 inches, as directed. Fell and remove in a manner preventing injury to remaining vegetation. In areas where felling is not allowed, because of possible damage for any reason, remove trees in sections.

CONSTRUCTION SPECIFICATIONS

Any issue here?



NOTES:

1. FOR ADDITIONAL DETAILS SEE RC-82M.
2. THIS IS A REPRESENTATIVE SECTION OF THE TREE REMOVAL AND TRIMMING WORK TO BE PERFORMED. ACTUAL END CONDITIONS AND SITE WORK VARY PER LOCATION. SEE TYPICAL SECTIONS AND CROSS SECTIONS.
3. PERFORM TREE REMOVAL AND TRIMMING AS DIRECTED BY THE REPRESENTATIVE.
4. DUE TO TREE REMOVAL, TRIMMING IS NOT ANTICIPATED ON THE RIGHT SIDE OF ROADWAY.
5. REMOVE TREES A MINIMUM 5'-0" FROM THE PROPOSED WORK LIMITS AND AS NECESSARY FOR CONSTRUCTION OF THE PROJECT. REMOVE ALL TREES WITHIN THE SIGHT DISTANCE EASEMENT FROM STA 129+50.00 RT TO 136+45.00 RT.
6. REMOVE DEAD TREES WITHIN THE LEGAL SLOPE EASEMENT AND LEGAL RIGHT-OF-WAY AS DIRECTED BY THE REPRESENTATIVE.

* TRIM LIVING BRANCHES, DEAD AND DYING LIMBS AND BRANCHES 1" OR MORE IN DIAMETER GROWING WITHIN THE LEGAL RIGHT-OF-WAY, GROWING ON AN ADJACENT PROPERTY THAT OVERHANGS OR ENCLOSES UPON THE LEGAL RIGHT-OF-WAY, TO AN UNLIMITED HEIGHT, AS INDICATED BY THE CONTRACT ITEMS.

** REMOVE LIMBS TO THE BRANCH COLLAR.

TREE REMOVAL AND TRIMMING

STA 129+50.00 TO STA 180+25.00 RT
 STA 131+00.00 TO STA 186+00.00 LT
 NOT TO SCALE

506	0810 0052	SELECTIVE TREE REMOVAL	42
	EACH		

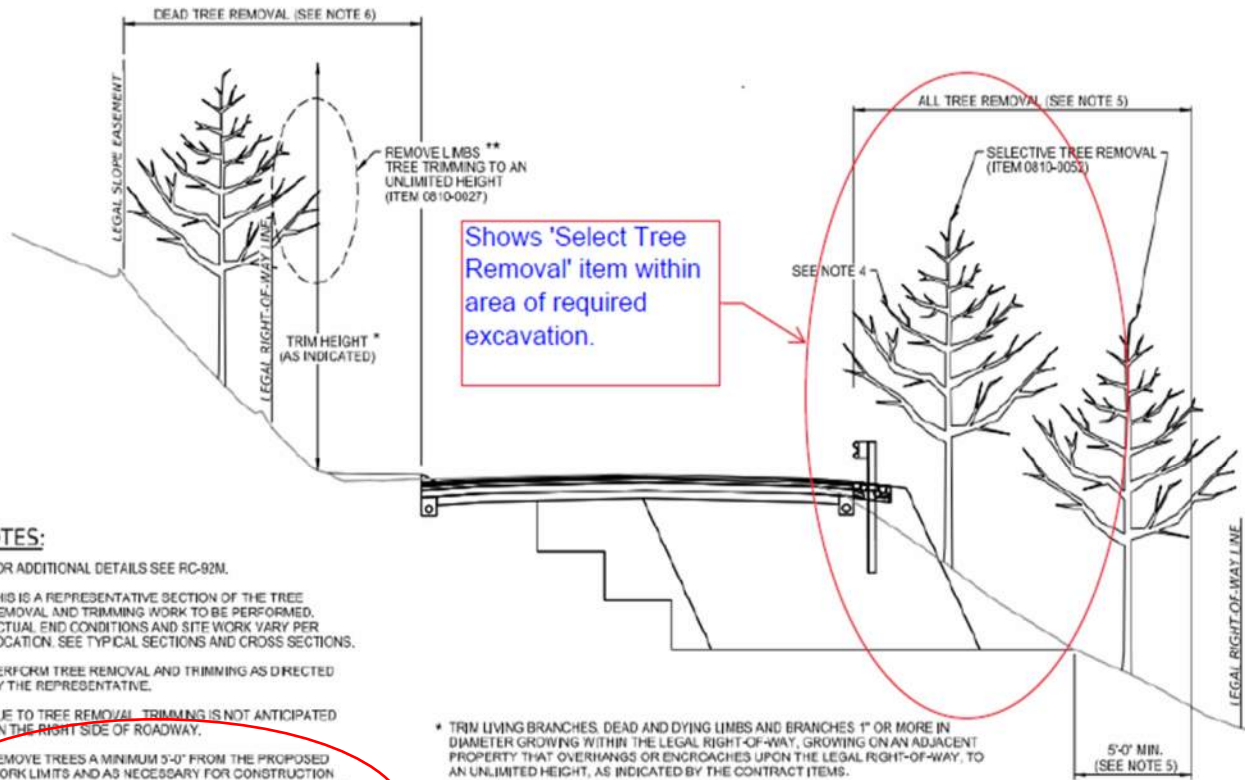
SELECTIVE TREE REMOVAL		REMARKS	SIDE	STATIONS
ITEM NUMBER	UNIT			
		SR 0453		
1	EACH	AS DIRECTED, REMOVE DEAD TREES	LT	131+00.00 to 136+00.00
5	EACH	AS DIRECTED, REMOVE DEAD TREES	LT	136+00.00 to 186+00.00
		RESET BRICK SIDEWALK	RT	113+15.00 to 113+70.45
		EXTEND WATERPROOF MEMBRANE 2' BEYOND LIMITS OF CULVERT	LT / RT	113+85.95 to 114+01.95
		REPLACE CURB AND SIDEWALK TO REMOVE CROSSWALK	LT	114+05.00 to 114+33.00
		REPLACE CURB AND SIDEWALK TO REMOVE CROSSWALK	RT	114+17.45 to 114+22.50
65	EACH	REMOVE TREES, SEE PLAN DETAIL	RT	129+50.00 to 136+00.00
		TREE TRIMMING, SEE PLAN DETAIL	LT	131+00.00 to 136+00.00
435	EACH	REMOVE TREES, SEE PLAN DETAIL	RT	136+00.00 to 180+25.00

CONSTRUCTION SPECIFICATIONS

Any issue here?

X	0201 0001	CLEARING AND GRUBBING	NO TAB
	LS		

SECTION 201—CLEARING AND GRUBBING



Shows 'Select Tree Removal' item within area of required excavation.

NOTES:

1. FOR ADDITIONAL DETAILS SEE RC-92M.
2. THIS IS A REPRESENTATIVE SECTION OF THE TREE REMOVAL AND TRIMMING WORK TO BE PERFORMED. ACTUAL END CONDITIONS AND SITE WORK VARY PER LOCATION. SEE TYPICAL SECTIONS AND CROSS SECTIONS.
3. PERFORM TREE REMOVAL AND TRIMMING AS DIRECTED BY THE REPRESENTATIVE.
4. DUE TO TREE REMOVAL TRIMMING IS NOT ANTICIPATED ON THE RIGHT SIDE OF ROADWAY.
5. REMOVE TREES A MINIMUM 5'-0" FROM THE PROPOSED WORK LIMITS AND AS NECESSARY FOR CONSTRUCTION OF THE PROJECT. REMOVE ALL TREES WITHIN THE SIGHT DISTANCE EASEMENT FROM STA 129+50.00 RT TO 136+45.00 RT.
6. REMOVE DEAD TREES WITHIN THE LEGAL SLOPE EASEMENT AND LEGAL RIGHT-OF-WAY AS DIRECTED BY THE REPRESENTATIVE.

* TRIM LIVING BRANCHES, DEAD AND DYING LIMBS AND BRANCHES 1" OR MORE IN DIAMETER GROWING WITHIN THE LEGAL RIGHT-OF-WAY, GROWING ON AN ADJACENT PROPERTY THAT OVERHANGS OR ENCROACHES UPON THE LEGAL RIGHT-OF-WAY, TO AN UNLIMITED HEIGHT, AS INDICATED BY THE CONTRACT ITEMS.

** REMOVE LIMBS TO THE BRANCH COLLAR.

TREE REMOVAL AND TRIMMING

STA 129+50.00 TO STA 180+25.00 RT
 STA 131+00.00 TO STA 196+60.00 LT
 NOT TO SCALE

201.1 DESCRIPTION—This work is:

- Removal of organic matter within excavation areas and removal of the first 8 inches of topsoil and organic matter within embankment areas.
- Removal of organic matter such as all trees, stumps, brush, roots, and other vegetation within the limits of excavation and embankment areas, including ditches and channels. When indicated, perform tree trimming and selective tree removal outside of the limits of excavation and embankment areas as specified in Section 810.

CONSTRUCTION SPECIFICATIONS

What is a 'tree'?

Department Opinion



Contractor Opinion



Contractor elated getting \$1500/tree

ADE Construction arguing his case



CONSTRUCTION SPECIFICATIONS

Would you say these meet quality expectations?

(Thermoplastic Legends placed in November. Photos taken following spring.)



CONSTRUCTION SPECIFICATIONS

Would you say these meet quality expectations?

(Thermoplastic Legends placed in November. Photos taken following spring).



CONSTRUCTION SPECIFICATIONS

From Section 965:

(f) Guarantee. Where directed, remove and replace material that has not remained within close conformity to location or has not remained effective in performing useful service in accordance with Section 107.16(b) for a period of 180 days from the date of acceptance. The minimum acceptable service is as follows:

- **Longitudinal Markings.** 90% of material remains in each 305 m (1,000-foot) section of marking where the intersection unit is defined as material on an approach leg within 50 m (160 feet) of the intersection.
- **Transverse Markings, Legends, and Symbols.** 90% of material remains for each individual legend, symbol, crosswalk, or stop line.

Is 90% retained at 180 days?



CONSTRUCTION SPECIFICATIONS

Header

ITEM 9000-0603 EMERGENCY WATERWAY BARRIER PLAN

Provision Body

I. DESCRIPTION – This is for the preparation of an emergency waterway barrier plan for the PADEP permitted levee on the project site. This existing levee will be impacted during construction.

It is the Contractor's responsibility for continuing to provide protection to the community while working on the Project. At no time during the Project, the level of protection provided to the community is allowed to be less than what was provided to the community prior to the project in case of a storm event.

II. MATERIAL - None

III. CONSTRUCTION –

Design and Plan:

This work is the preparation of a plan to furnish all material (Item 9000-0604 Emergency Waterway Barrier Material) required to install an emergency barrier (Item 9000-0605 Emergency Waterway Barrier Installation) along the waterway. The Contractor must proactively monitor weather conditions using reliable and officially recognized sources and respond promptly to any weather-related risks in coordination with the PennDOT Inspector-In-Charge. The decision to move forward with implementing the emergency water barrier per their prepared and approved PADEP plan must be done immediately and in advance of any risk to the community.

All material required by the approved plan will be mobilized to the work site and stored properly in accordance with Item 9000-0604 prior to starting excavation work that compromises the existing level of protection.

The design and prepared Emergency Barrier Plan must conform to the following parameters:

- Minimum top elevation for barrier and design water head: See Table Below
- It must be installed within 2 hours.
- Approximate maximum cumulative length of emergency barrier: 210 feet and all openings in levee below elevations in the table provided below.
- Design in use duration of emergency barrier – 7 days.
- The Contractor will adhere to any additional direction issued by PADEP during the initial job conference meeting. All such direction will be documented in meeting minutes or another mutually accepted form of documentation and will be reviewed and acknowledged by all attendees.

T-450/T-496 STA	MINIMUM TOP ELEVATION OF BARRIER/ DESIGN WATER HEAD ELEVATION
0+40	1997.2
0+50	1997.3
0+75	1997.4
1+00	1997.0
1+25	1997.0
1+75	1997.0
2+00	1997.1
2+25	1997.7
2+50	1998.2

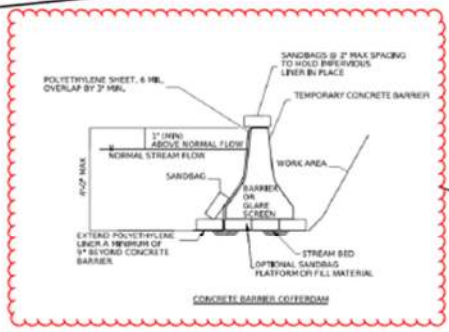
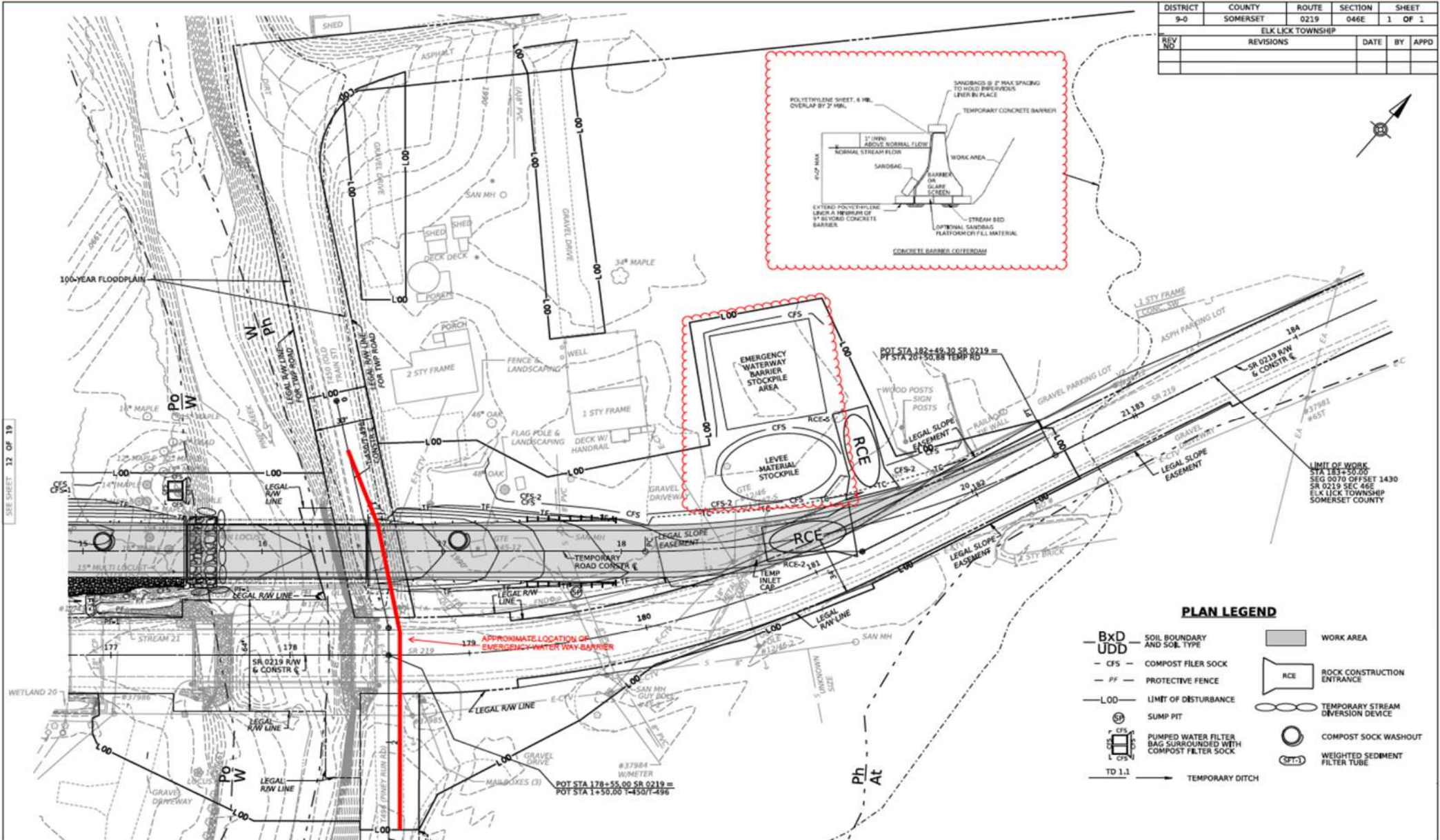
Submit 4 sets of emergency barrier plans, along with design calculations, signed and sealed by a professional engineer, registered in the Commonwealth of Pennsylvania to the Department for review within 10 days after the Initial Job Conference with PADEP. Include in the plan all design calculations of all material properties, design loads, and design assumptions. Include on the completed drawings of the emergency barrier plan all design dimensions, limit of work, elevations, material, member sizes and construction sequence. Provide top of barrier elevations on the plans. Specific installation procedures are to be included as part of the submittal. Allow 14 days for review by the Department before any levee removal activities.

IV. MEASUREMENT AND PAYMENT – Lump Sum. 100% of this item will be paid for upon review and approval of the plan by the Department.

CONSTRUCTION SPECIFICATIONS

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
9-0	SOMERSET	0219	046E	1 OF 1

ELK LICK TOWNSHIP				
REV NO	REVISIONS	DATE	BY	APPD



PLAN LEGEND

- BxD UDD** SOIL BOUNDARY AND SOIL TYPE
- CFS** COMPOST FILTER SOCK
- PF** PROTECTIVE FENCE
- L-OD** LIMIT OF DISTURBANCE
- SP** SUMP PIT
- WFF** PUMPED WATER FILTER BAG SURROUNDED WITH COMPOST FILTER SOCK
- TD 1.1** TEMPORARY DITCH
- WORK AREA**
- RCE** ROCK CONSTRUCTION ENTRANCE
- TSDD** TEMPORARY STREAM DIVERSION DEVICE
- CSW** COMPOST SOCK WASHOUT
- WSTF** WEIGHTED SEDIMENT FILTER TUBE

CONSTRUCTION SPECIFICATIONS

Put yourself in the Contractor and/or IIC position

Header

ITEM 9000-0605 EMERGENCY WATERWAY BARRIER INSTALLATION

Provision Body

I. DESCRIPTION – This is for the installation of the emergency waterway barrier in a high-water event in accordance with the Emergency Waterway Barrier Plan (Item 9000-0603) and using the approved Emergency Waterway Barrier Material (Item 9000-0604).

II. MATERIAL – In accordance with Item 9000-0604.

III. CONSTRUCTION –

If the waterway is projected to crest above an elevation that would result in flooding of the project site or areas behind the project site—based on the Contractor's proactive monitoring of weather conditions and coordination with the Inspector-in-Charge—the Contractor will implement the Emergency Waterway Barrier Plan (Item 9000-0603).

How would I know `if waterway is projected to crest above an elevation that would result in flooding of the project site or areas behind the project site'?

CONSTRUCTION SPECIFICATIONS

Any issue here?

Provision Name: c0659 ITEM 4659-0001 HIGH FRICTION SURFACE TREATMENT (HFST) BLACK
Completed: Yes

Associated Items

Item Number	Unit of Measure	Item Description
4659-0001	SY	HIGH FRICTION SURFACE TREATMENT (HFST)

Header

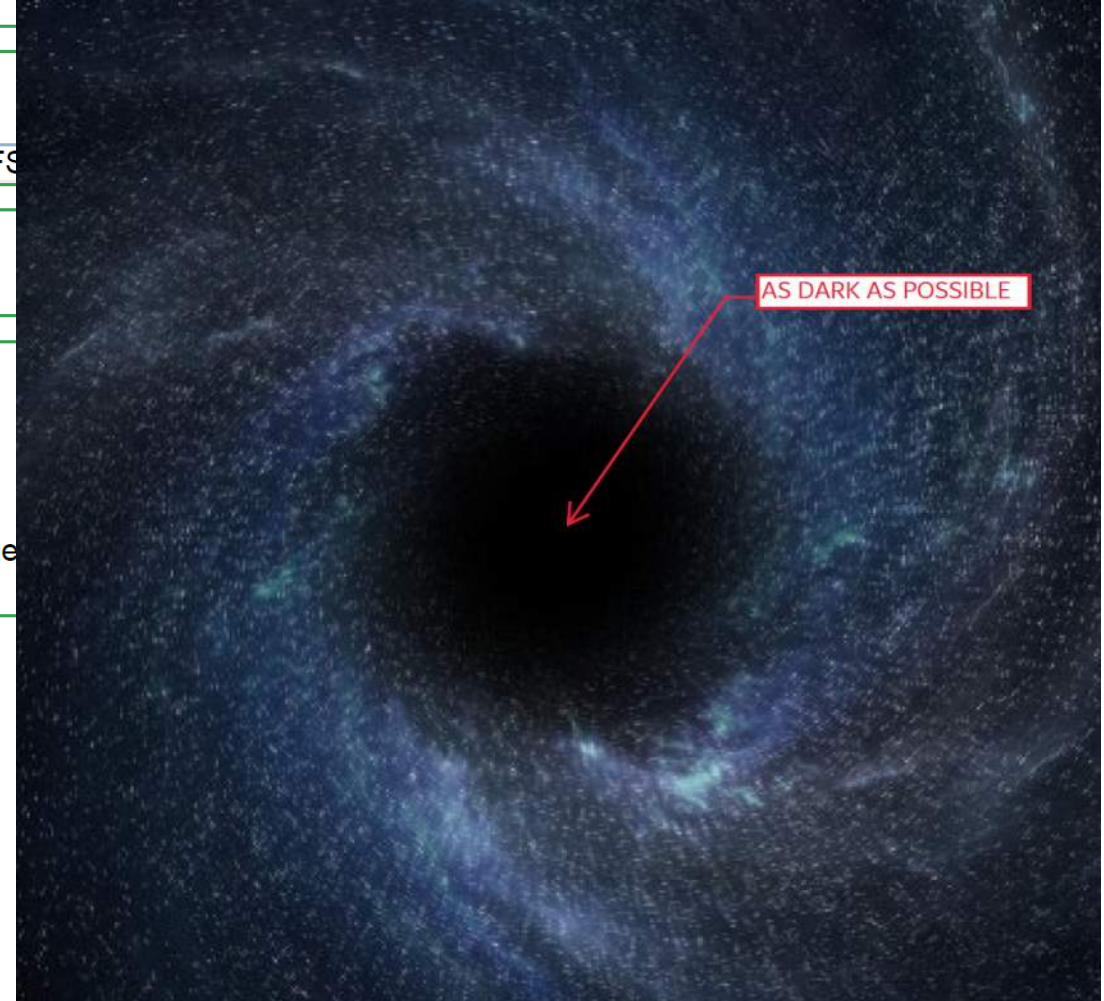
ITEM 4659-0001 HIGH FRICTION SURFACE TREATMENT (HFST) BLACK

Provision Body

In accordance with Section 659 and as follows.

659.2 MATERIAL - Add the following:

(e) **Color.** The color of the surface treatment will be the darkest color possible. Lots will need to be approved for use.



What exactly is *'the darkest color possible'*?

Answer based on extensive internet research:

THANK YOU!!!

THANK YOU!!!

Notable Improvements in Designs

- Presentation of Selective Tree Removals on Plans
- Significant reduction in shoulder back-up work orders
- Drainage verification

Questions???