INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SUPPLEMENTAL INDEX OF SHEETS

STATE OF TEXAS DEPARTMENT OF TRANSPORTATION

	ANTO	$\Delta \mathbf{r}$	

| RMC 6459-45-001 | CONT | SECT | JOB | HIGHWAY | 6459 | 45 | 001 | SH 31 | DIST | COUNTY | SHEET NO.

© TxDOT 2023

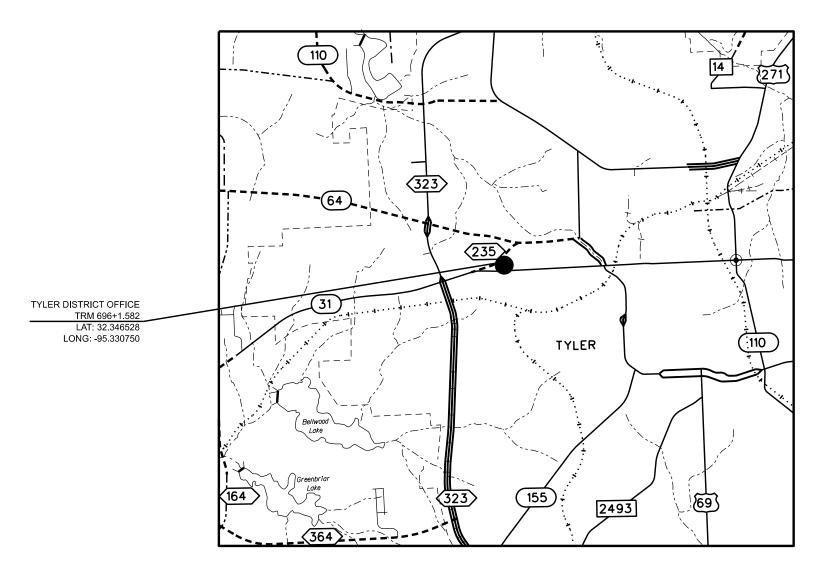
PLANS OF PROPOSED STATE HIGHWAY IMPROVEMENT

SH 31 SMITH COUNTY

LIMITS:TYLER DISTRICT OFFICE COMPLEX

FOR THE CONSTRUCTION OF LANDSCAPING AND IMPROVEMENTS.

CONSISTING OF CULVERT REPAIRS, RETAINING WALL, AND CONCRETE RIPRAP.



EXCEPTIONS: NONE EQUATIONS: NONE RAILROAD CROSSINGS: NONE

FINAL PLANS

LETTING DATE: ______

DATE CONTRACTOR BEGAN WORK: _____

DATE WORK WAS COMPLETED & ACCEPTED: _____

FINAL CONTRACT COST: \$ _____

CONTRACTOR: _____





SUBMITTED FOR LETTING:

1/18/2024

A5223B51EF4A408

MAINTENANCE ENGINEER

APPROVEDITED 1/18/2024

Stant R. Withylor R.E.

0037DA7E3C1A4D2
DIRECTOR OF MAINTENANCE

\$TIME\$

ATE: \$DATE\$

GENERAL TITLE SHEET

2 SUPPLEMENTAL INDEX OF SHEETS

3 GENERAL NOTES

4 ESTIMATE & QUANTITY

5 QUANTITY SUMMARY

6 DISTRICT COMPLEX MAP

ROADWAY DETAILS

7 REMOVAL LAYOUT

RETAINING WALL LAYOUT

9 RIPRAP & FENCE LAYOUT

10 DRAINAGE PIPE PLAN & PROFILE

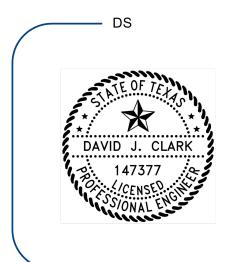
11-12 MISCELLANEOUS DETAILS

ENVIRONMENTAL ISSUES

13 ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS
14-15 STORMWATER POLLUTION PREVENTION PLAN (SWP3)

ENVIRONMENTAL STANDARDS

16-17 EC (1)-16, EC (2)-16



The Standard Sheets specifically identified above have been issued by me and are applicable to this project.

- DocuSigned by:

Donal & Stark, P.E.

DAVID J. CLARK

___ *•* P.E

1/17/2024

Date

Texas Department of Transportation

SUPPLEMENTAL INDEX OF SHEETS

© TxDOT

	@ 1xB01						
CONT	SECT	JOB	HIGHWAY				
6459	45	001	SH 31				
DIST		COUNTY		SHEET NO.			
10		SMITH		2			

Project Number: 6459-45-001 Sheet 3

County: SMITH Control: 6459-45-001

Highway: SH 31

GENERAL NOTES:

GENERAL.

Contractor questions on this project are to be addressed to the following individuals:

Eduardo Castaneda P.E <u>Eduardo.Castaneda@txdot.gov</u>
Cory Jackson Cory.Jackson@txdot.gov

For Q&A on Proposals navigate to:

https://tableau.txdot.gov/views/ProjectInformationDashboard/NoticetoContractors

Use the dashboard to navigate to the project you are interested in by scrolling or filtering the dashboard using the controls on the left. Hover over the blue hyperlink for the project and click on the link in the window that pops up to view the Q&A.

All relevant project documentation including CTDs and cross sections will still be posted to the districts FTP website.

https://ftp.dot.state.tx.us/pub/txdot-info/Pre-Letting%20Responses/

All prospective bidders will be required to attend a mandatory Pre-Bid meeting to discuss the scope of work and specific requirements of the proposed construction. This meeting will be held in the Tyler District Maintenance Office at 10:00 A.M., February 7, 2024.

ITEM 5. CONTROL OF THE WORK

If utility lines need adjustments during construction operations, modify operations and continue the work in a manner that will allow others to make the utility adjustments. Additional working time may be allowed for delays caused by these utility adjustments.

Utility locations shown on the plans are approximate. Contact utilities in accordance with Article 5.6., "Cooperating with Utilities."

TxDOT will mark all known utilities in the work areas prior to beginning work.

TxDOT will locate and mark an existing drain system located in the plant bed behind the Administration building. If this system is damaged during construction the Contractor will be responsible for making repairs at their own expense.

Project Number: 6459-45-001 Sheet 3

County: SMITH Control: 6459-45-001

Highway: SH 31

ITEM 7. LEGAL RELATIONS AND RESPONSIBILITIES

Do not initiate activities in a project specific location (PSL) associated with a U.S. Army Corps of Engineers (COE) permit area that has not been previously evaluated by the COE as part of the permit review of this project. Such activities include haul roads, equipment staging areas, borrow pits, and disposal sites. "Associated," defined here, means "materials are delivered to or from the PSL." The permit area includes all waters of the U.S. or associated wetlands affected by activities associated with this project. Special restrictions may be required for this work. The Contractor is responsible for all consultations with the COE regarding activities (including PSL) that have not been previously evaluated by the COE. Provide the Department with a copy of all consultations or approvals from the COE before initiating activities.

Proceed with activities in PSL that do not affect a COE permit area if Contractor determines that the PSL is non-jurisdictional or proper COE clearances have been obtained in jurisdictional areas or have been previously evaluated by the COE as part of the permit review of this project. The Contractor is responsible for documenting his determination that his activities do not affect a COE permit area. Maintain copies of determination for review by the Department or any regulatory agency.

Concrete truck drivers and concrete pump operators are required to wash out only in designated areas specifically constructed for eliminating run-off. Dispose of materials in accordance with federal, state, and local requirements.

Maintain positive drainage for permanent and temporary work for the duration of the project. The Contractor will be responsible for any items associated with the temporary or interim drainage and all related maintenance. This work will be subsidiary to various bid items.

The total disturbed area for this project is .245 acres. The disturbed area in this project and the Contractor Project Specific Locations (PSL's) within 1 mile of the project limits for the Contract will further establish the authorization requirements for storm water discharges. The Department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction activities shown on the plans. Obtain any required authorization from the TCEQ for any Contractor PSL for construction support activities on or off the ROW. When the total area disturbed for all projects in the Contract and PSLs within 1 mile of the project limits exceed 5 acres, before disturbance, provide a copy of the Contractor NOI for PSLs on the ROW and within 1 mile of the project limits to the Engineer and to any local government that operates a Municipal Separate Storm Sewer System (MSSS).

In accordance with Article 7.9, provide and maintain adequate, neat and sanitary toilet accommodations within the project limits for employees, including State employees.

No significant traffic generator events identified.

General Notes Sheet A General Notes Sheet B

Project Number: 6459-45-001 Sheet 3

County: SMITH Control: 6459-45-001

Highway: SH 31

ITEM 8. PROSECUTION AND PROGRESS

The Work Start Date and the beginning of Working Day charges for this Contract will be April 1, 2024.

Thirty (30) working days will be computed and charged in accordance with Section 8.3.1.4., "Standard Workweek."

ITEM 9. MEASUREMENT & PAYMENT

In accordance with Article 9.1., "Measurement of Quantities," furnish the tare and maximum gross weights as well as the volume capacity of all vehicles, trucks, truck-tractors, trailers, semitrailers, or combination of such vehicles used to deliver materials for this Contract. Also, furnish calculations supporting these weights and capacities. Provide all measurements required for pay a minimum of 2 days before the trucks are used.

ITEM 104. REMOVING CONCRETE

Blasting will not be permitted on this project.

ITEM 132. EMBANKMENT

Furnish Type C embankment consisting of suitable earth material (rock, loam, clay, or other approved materials) that will form a stable embankment. The top 2 ft. of embankment material should have a plasticity index between 6 and 18.

Test borrow sources and furnish results to the Engineer for select embankment, the Engineer will then run confirmation testing.

ITEM 162. SODDING FOR EROSION CONTROL

Use St. Augustine for block sod.

Blade and rake smooth the area before laying block sod. Refer to the plans and details for areas to receive the sod. Remove 1 in. of soil along paved edges and curb lines before laying sod and dress the slope to match all exposed edges after placing the sod. Fertilize the ground with a slow-release homogeneous coated fertilizer at a rate of 1 lb. per 9 sq. yd. before installation of the sod.

ITEM 166. FERTILIZER

Place fertilizer at the rate of 1 lb. per 9 sq. yd. on areas prepared for block sod.

Project Number: 6459-45-001 Sheet 3

County: SMITH Control: 6459-45-001

Highway: SH 31

ITEM 192. LANDSCAPE PLANTING

Remove existing shrubs, mulch, and plant bed liner as directed by the Engineer. This includes any and all roots, root balls, and bulbs. This work will be measured and paid for under Item 192 "Plant Bed Preparation" by the SY.

Provide the following Plant Material to be placed as directed by the Engineer:

2 Shumard Oak Trees (100 gal. with 4" min. dia.) 1 Flame Thrower Redbud (30 gal.)

ITEM 403. TEMPORARY SPECIAL SHORING

Use mats during placement and removal of temporary special shoring to avoid damage to the pavement structure.

Do not allow shoring to project more than 4-in above natural ground elevation unless otherwise approved.

ITEM 421. HYDRAULIC CEMENT CONCRETE

The Engineer will provide strength-testing equipment.

Provide the Engineer with a mixture design report using Department-provided software in accordance with Section 421.4.1., "Classification of Concrete Mix Designs," of the standard specifications. Include in the report the producer's plant, all materials sources, and a unique identification number for the design.

Air is not required on concrete cast-in-place elements on this project. If the Contractor proposes the use of an existing concrete design containing air, the Engineer must approve the design in writing before placement. If used, air testing will be performed in accordance with the specifications.

ITEM 432. RIPRAP

Locations and quantities may be varied as directed by the Engineer to accommodate field conditions.

Chain link fence is to remain in place while forming and pouring proposed concrete riprap under perimeter fence.

Project Number: 6459-45-001 Sheet 3

County: SMITH Control: 6459-45-001

Highway: SH 31

ITEM 496. REMOVING STRUCTURES

All materials removed under this Item are the property of the Contractor.

ITEM 506. TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS

Remove dirt, silt, rocks, debris, and other foreign matter that accumulates in all structures due to project erosion and Contractor's operations. Keep stream channels open at all times. This work will not be paid for directly but will be subsidiary to this Item.

The Storm Water Pollution Prevention Plan (SWP3) consists of temporary erosion control measures needed and provided for under this Item. The disturbed area is less than one acre and use of erosion control measures is not anticipated. If physical conditions encountered at the job site require necessary controls, BMP installation, maintenance, and removal will be paid as extra work on a force account basis per Articles 4.4 and 9.7

Provide the following Items for the SWP3 for this Contract as directed on a force account basis:

Temporary sediment control fence, seeding for erosion control, earthwork for erosion control, and vegetative watering.

For temporary sediment control fence, use steel posts with a minimum weight of 1.25 lb./ft.

ITEM 752. TREES, UNDERBRUSH AND SHRUBS

Use equipment that is industry-standard for the type of work being performed, specifically, loaders with sufficient capacity to remove tree trunks from the grounds. Use aerial devices when needed.

Pick up and remove from the premises all trees and root balls that are felled in one day, unless otherwise authorized by the Engineer.

Removal of root balls, roots and knees may include excavation up to approximately 2 ft. deep and 30 ft. around the trunk of the tree to ensure that all roots, and knees are adequately removed. Backfill the holes that remain after the root balls are removed and then level to existing grade. Disposal of any additional stumps, logs, limbs, etc., is not allowed on private property. Removal shall be in accordance with state, federal and local environmental and waste disposal laws and regulations. All removal and backfill are subsidiary to the bid item.

General Notes Sheet E



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 6459-45-001

DISTRICT Tyler **HIGHWAY** SH 31

COUNTY Smith

	CONTROL SECTION JOB			6459-4	5-001		
	PROJECT			A0020	5599		
	COL		UNTY	Smi	th	TOTAL EST.	TOTAL FINAL
		HIGHW		SH 3	31		THVAL
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	132-6021	EMBANKMENT (VEHICLE)(ORD COMP)(TY C)	CY	12.000		12.000	
	160-6005	FURNISHING AND PLACING TOPSOIL	CY	100.000		100.000	
	162-6002	BLOCK SODDING	SY	400.000		400.000	
	192-6016	PLANT BED PREPARATION	SY	350.000		350.000	
	192-6024	PLANT MATERIAL (30 GAL) (TREE)	EA	1.000		1.000	
	192-6027	PLANT MATERIAL (100 GAL) (TREE)	EA	2.000		2.000	
	402-6001	TRENCH EXCAVATION PROTECTION	LF	16.000		16.000	
	420-6009	CL A CONC (COLLAR)	EA	2.000		2.000	
	420-6062	CL C CONC (RETAINING WALL)	CY	2.000		2.000	
	432-6001	RIPRAP (CONC)(4 IN)	CY	13.100		13.100	
	464-6003	RC PIPE (CL III)(18 IN)	LF	12.000		12.000	
	496-6007	REMOV STR (PIPE)	LF	12.000		12.000	
	496-6099	REMOVE STR (RAIL)	LF	23.000		23.000	
	500-6001	MOBILIZATION	LS	1.000		1.000	
	506-6038	TEMP SEDMT CONT FENCE (INSTALL)	LF	40.000		40.000	
	506-6039	TEMP SEDMT CONT FENCE (REMOVE)	LF	40.000		40.000	
	4141-6001	STACKED STONE-BLOCK RETAINING WALL(DRY)	SF	80.000		80.000	
	7171-6033	TREE & ROOT BALL (REMOVE)	EA	5.000		5.000	
	7316-6019	REM & REPLACE WOODEN FENCE	LF	466.000		466.000	



DISTRICT	COUNTY	CCSJ	SHEET
Tyler	Smith	6459-45-001	4

	BASIS OF ESTIMATE							
	ITEM	DESCRIPTION	RATES	UNITS	UNIT	QUANTITY	UNITS	
_								
①	166	FERTILIZER	1 LB/9 SY	400	SY	0.022	TON	
	500	MOBILIZATION				1	LS	

①FOR CONTRACTOR'S USE ONLY.

LANDSCAPING SUMMARY								
	ITEM 160]	ITEM 192		ITEM 420	ITEM 496	ITEM 4141	ITEM 7171
	6005	6016	6024	6027	6062	6099	6001	6033
	FURNISHING	PLANT	PLANT	PLANT	CL C CONC	REMOVE	STACKED	TREE
LOCATION	AND	BED	MATERIAL	MATERIAL	(RETAINING WALL)	STR	STONE-BLOCK	&
	PLACING	PREPARATION	(30 GAL)	(100 GAL)		(RAIL)	RETAINING	ROOT
	TOPSOIL		(TREE)	(TREE)			WALL	BALL
							(DRY)	(REMOVE)
	CY	SY	\bigcirc EA	3 _{EA}	CY	LF	SF	4 EA
PLANT BED	100	350	1	2	2	23	80	5
TOTAL	100	350	1	2	2	23	80	5

ITEM 192-6024 THE CONTRACTOR WILL PROVIDE 1 FLAMETHROWER REDBUD TREE.
 ITEM 192-6027 THE CONTRACTOR WILL PROVIDE TWO SHUMARD OAK TREES.
 ITEM 7171-6033 WILL INCLUDE THE REMOVAL OF ANY AND ALL ROOTS AND KNEES AS DIRECTED BY THE ENGINEER.

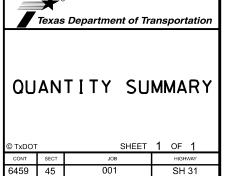
DRAINAGE SUMMARY							
			ITEM 132	ITEM 402	ITEM 420	ITEM 464	ITEM 496
			6021	6001	6009	6003	6007
	EXISTING	PROPOSED	EMBANKMENT	TRENCH	CLA	RC PIPE	REMOV
LOCATION	STRUCTURES	STRUCTURES	(VEHICLE) (ORD COMP)	EXCAVATION	CONC	(CL III)	STR
			(TY C)	PROTECTION	(COLLAR)	(18 IN)	(PIPE)
			CY	LF	EA	LF	LF
DISTRICT WAREHOUSE	18"x 63' RC PIPE	18"x 63' RC PIPE	12	16	2	12	12
TOTAL	L		12	16	2	12	12

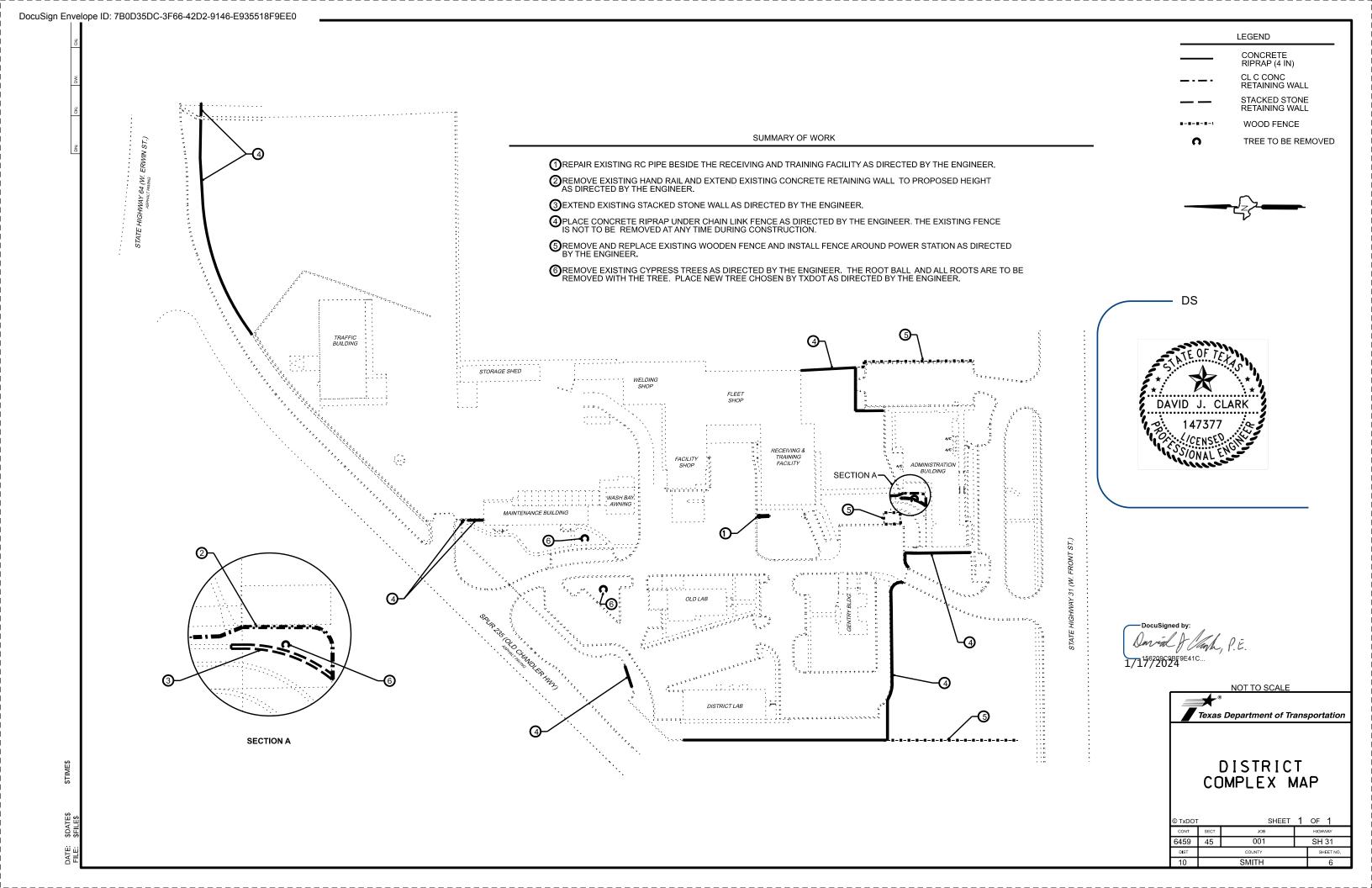
ENVIRONMENTAL SUMMARY				
	ITEM 162	ITEN	A 506	
	6002	6038	6039	
	BLOCK	TEMP	TEMP	
LOCATION	SODDING	SEDMT	SEDMT	
LUCATION		CONT	CONT	
		FENCE	FENCE	
		(INSTALL)	(REMOVE)	
	SY	LF	LF	
DISTRICT OFFICE	400	40	40	
TOTAL	400	40	40	

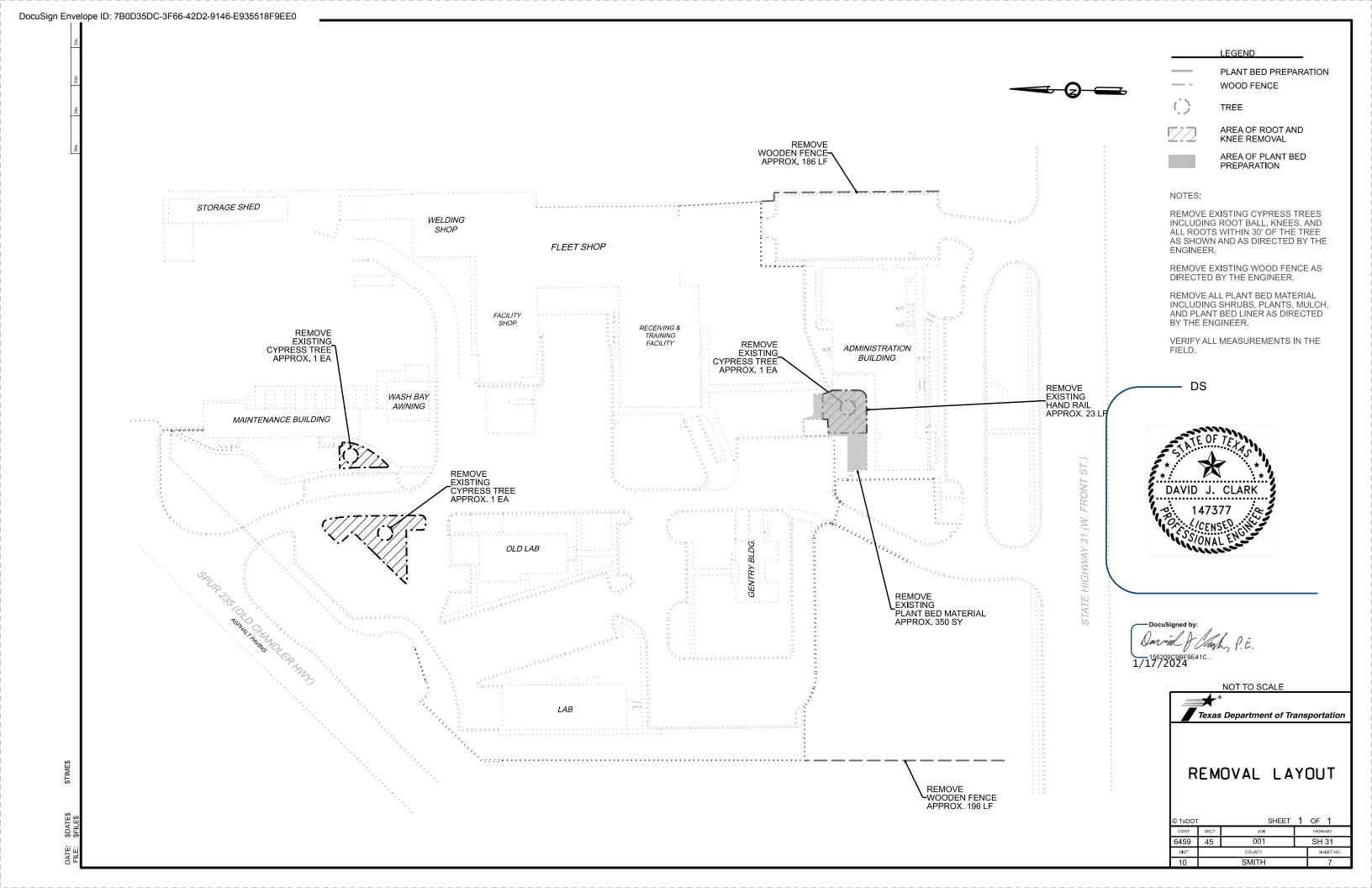
RIPRAP SUMMARY			
	ITEM 432		
	6001		
LOCATION	RIPRAP		
LOCATION	(CONC)		
	(4 IN)		
	CY		
LOCATION 1	0.5		
LOCATION 2	1.1		
LOCATION 3	1.5		
LOCATION 4	3.0		
LOCATION 5	2.0		
LOCATION 6	0.4		
LOCATION 7	0.4		
LOCATION 8	2.2		
LOCATION 9	2.0		
TOTAL	13.1		

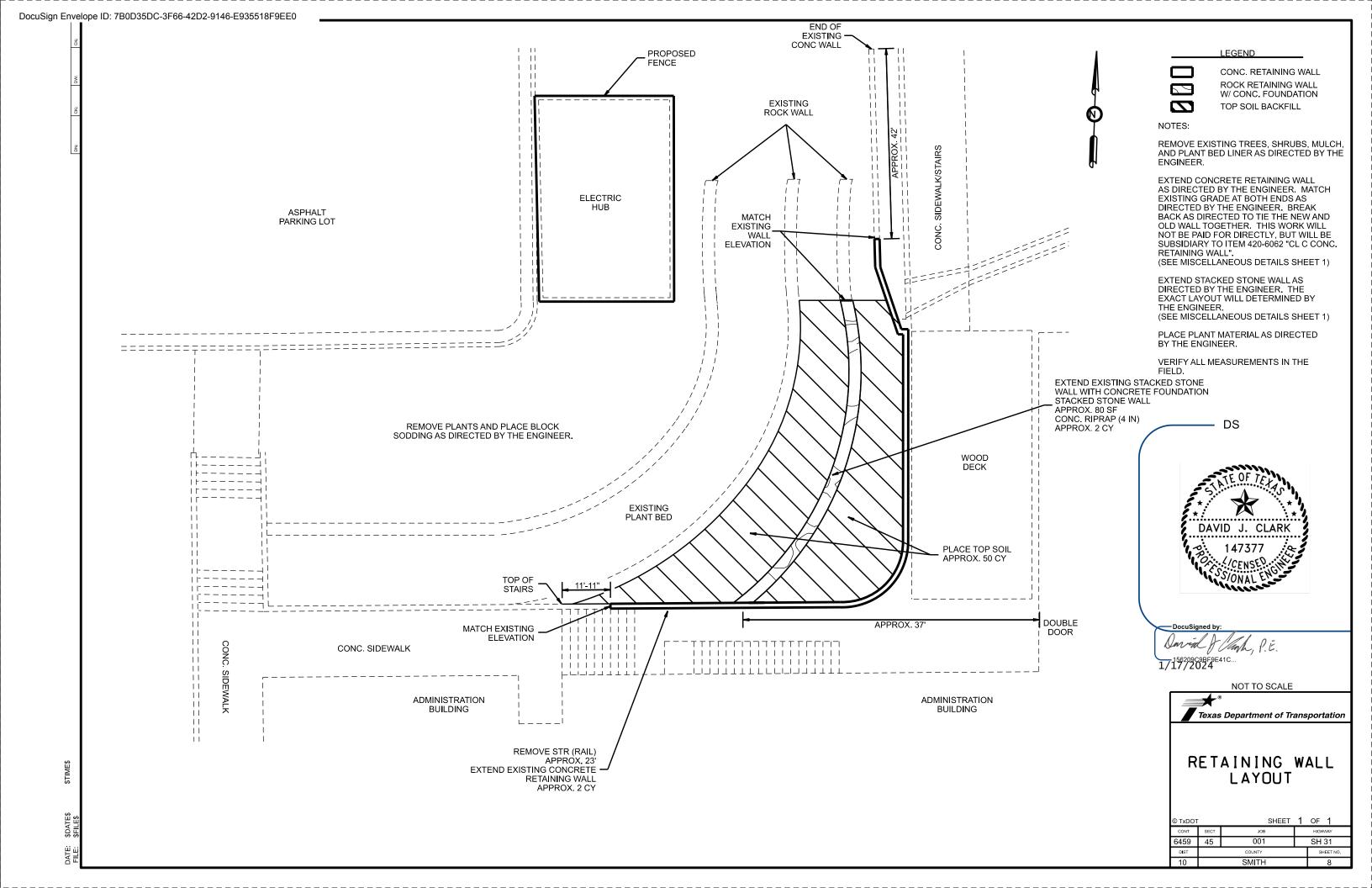
FENCE SUMMARY			
LOCATION	ITEM 7316		
	6019		
	REM &		
	REPLACE		
	WOODEN		
	FENCE		
	⑤ LF		
LOCATION 10	196		
LOCATION 11	186		
LOCATION 12	84		
TOTAL	466		

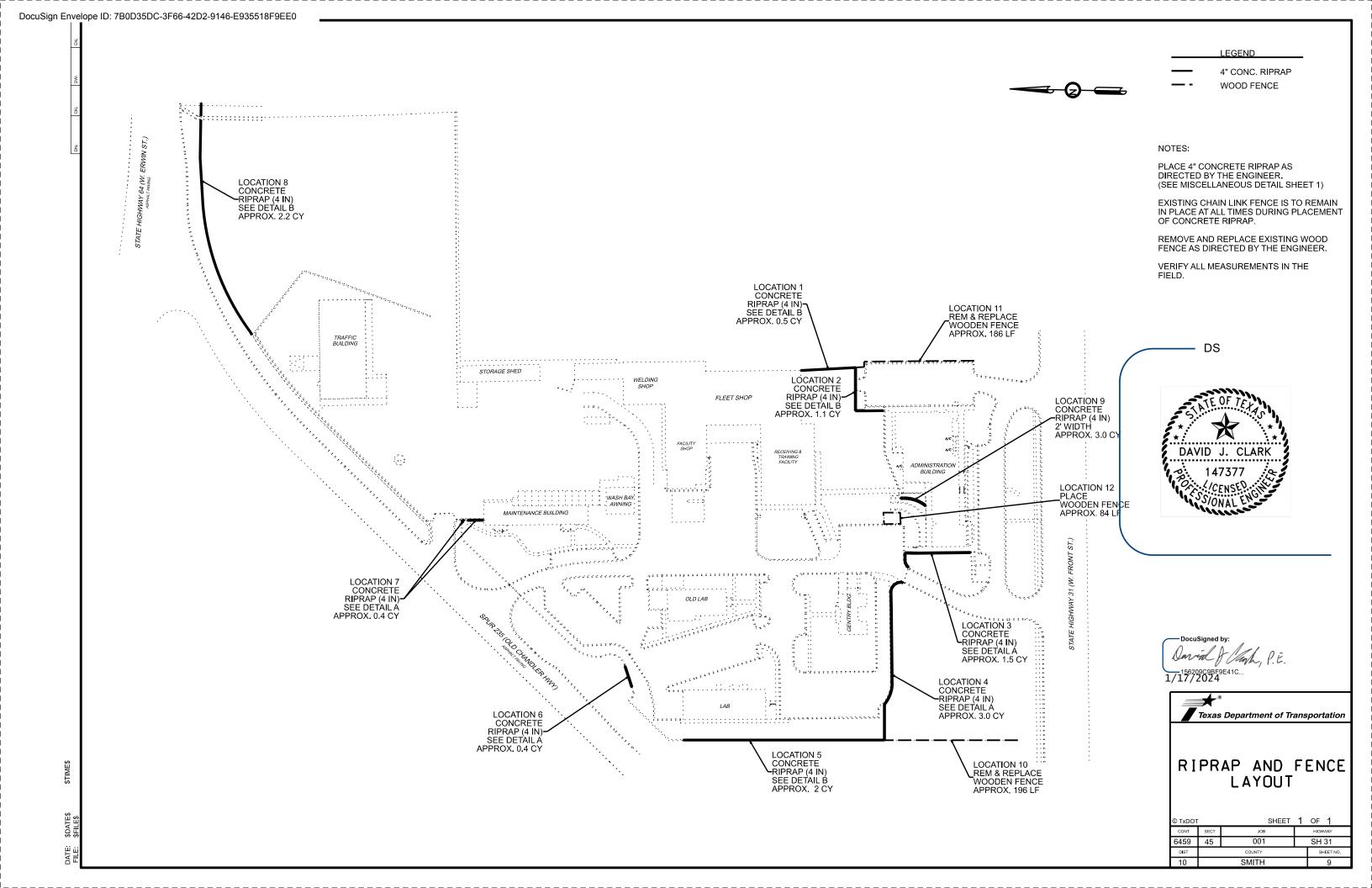
⑤THE CONTRACTOR WILL PROVIDE TRAC METAL FRAME PRIVACY FENCING WITH VERTICLE COMPOSITE SLATS.

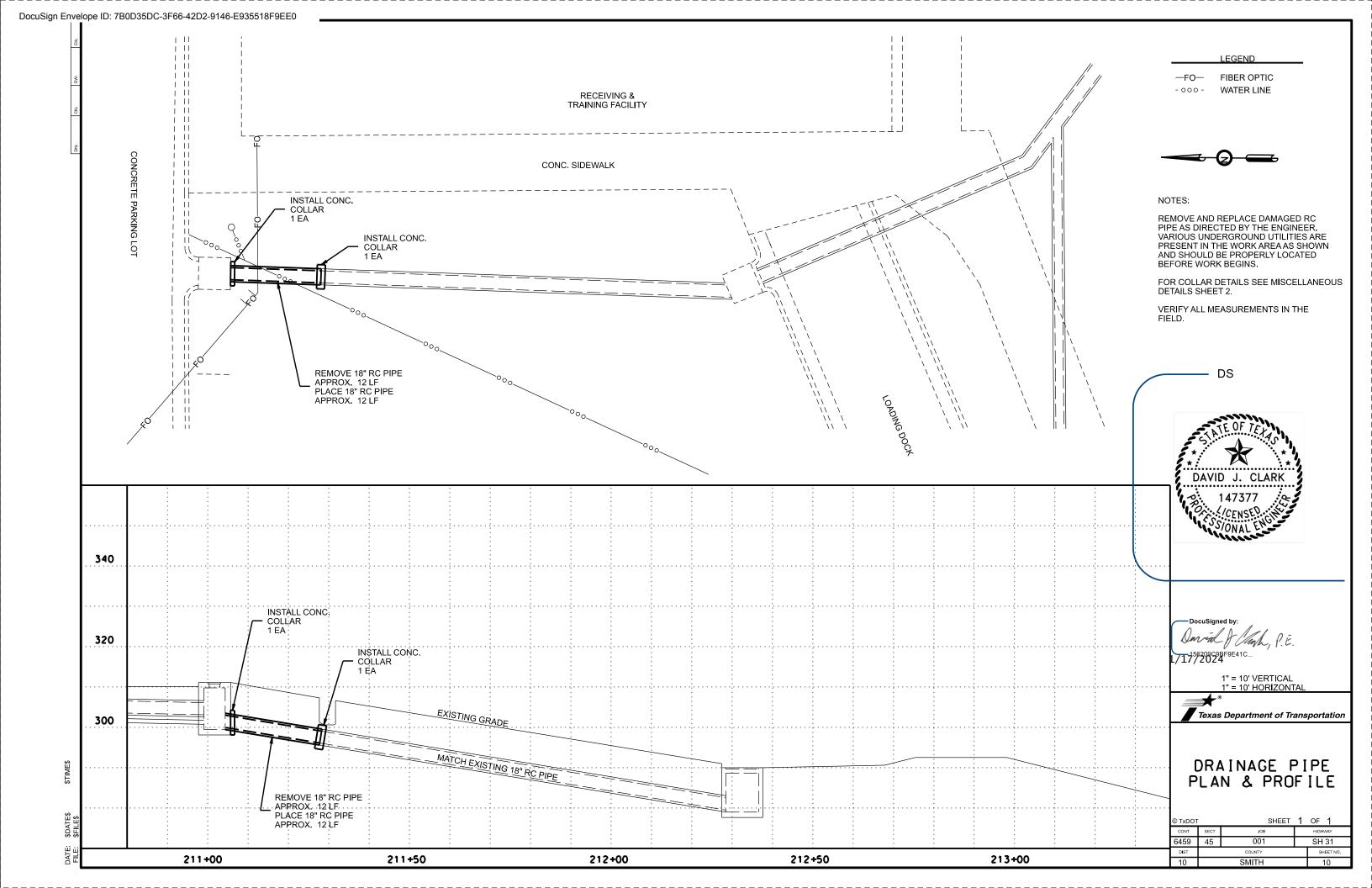


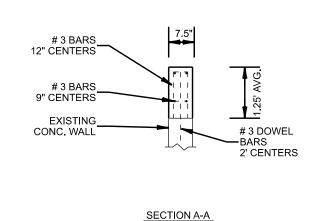










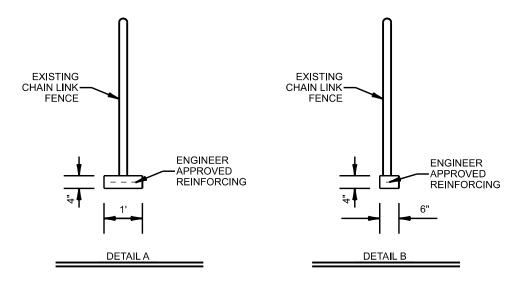


CONCRETE WALL DETAILS

NOTES:

CONTRACTOR SHALL USE CL C CONCRETE WITH A MINIMUM DESIGN STRENGTH OF 3,600 PSI FOR THE RETAINING WALL.

USE #3 REBARS FOR ALL REINFORCING STEEL IN THE RETAINING WALL. A MINIMUM OF 2" OF COVERAGE IS REQUIRED FOR ALL STEEL REINFORCING. DOWEL BARS SHOULD HAVE A MINIMUM OF 8" OF EMBEDMENT INTO EXISTING WALL.

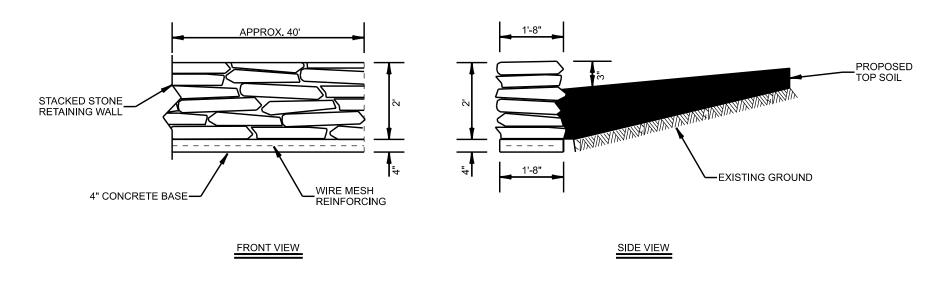


CONCRETE RIPRAP DETAILS

NOTES:

THE CONTRACTOR IS TO PLACE A TOOL JOINT IN CONCRETE RIPRAP AT 20' CENTER TO CENTER.

THE EXISTING FENCE WILL REMAIN IN PLACE DURING PLACEMENT OF CONCRETE RIPRAP.



STACKED STONE RETAINING WALL DETAILS

NOTES:

USE CL B CONCRETE WITH A MINIMUM DESIGN STRENGTH OF 2,000 PSI FOR THE STACKED STONE RETAINING WALL FOUNDATION. PROVIDE REINFORCING BARS, DEFORMED WWR, OR ANY SUTABLE COMBINATION OF BOTH TYPES FOR RIPRAP REINFORCING UNLESS SPECIFIED ELSEWHERE IN THE PLANS. THIS WORK WILL BE PAID FOR UNDER ITEM 432-6001 BY THE CY.

USE MATCHING STONE OF SIMILAR SHAPE, SIZE, AND COLOR AS THE EXISTING STONE WALL. THIS WORK WILL BE PAID FOR UNDER ITEM 4141-6001 BY THE SF.

REMOVE ALL EXISTING TREES, SHRUBS, MULCH, AND PLANT BED LINER AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR UNDER ITEMS 192-6016 BY THE SY, AND ITEM 7171-6033 BY THE EA.

BACKFILL PROPOSED STACKED STONE WALL WITH TOP SOIL AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR UNDER ITEM 160-6005 BY THE CY.

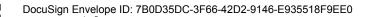
PLANT MATERIAL CHOSEN BY TXDOT WILL BE PLACED AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID UNDER ITEM 192-6024 AND 192-6027 BY THE SY.

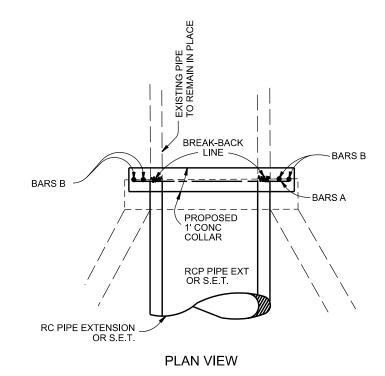


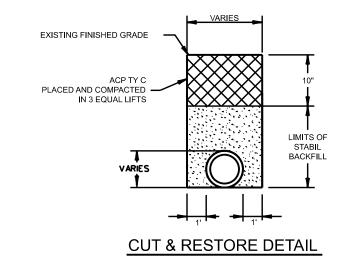
Texas Department of Transportation

MISCELLANEOUS DETAILS

SHEET 1 OF 2 6459 001 SH 31 45 SHEET NO

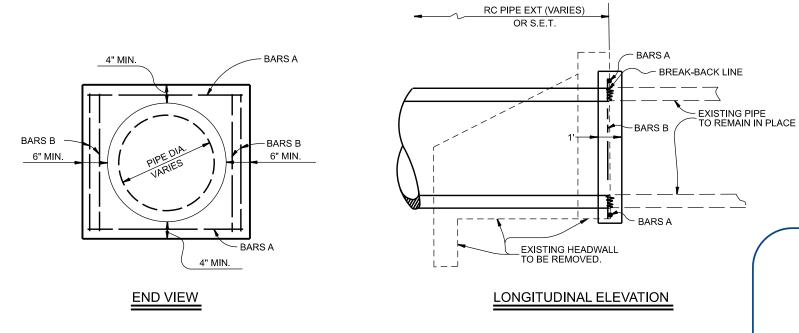






DS

DAVID J. CLARK



CONCRETE COLLAR DETAILS

NOTE:

A CL "A" CONC COLLAR WILL BE USED AT LOCATIONS AS SHOWN IN THE PLANS WHERE ONLY THE EXISTING HEADWALL OR LESS THAN A FULL JOINT OF PIPE IS TO BE REMOVED PRIOR TO THE INSTALLATION OF THE CULVERT EXTENSION. A CONCRETE COLLAR SHALL BE USED AT LOCATIONS WHERE AN EXISTING METAL PIPE CULVERT IS BEING EXTENDED WITH RC PIPE OR A SAFETY END TREATMENT. A CONCRETE COLLAR SHALL BE USED AT ALL 15, 30 AND 45 DEGREE PIPE BEND JOINT CONNECTIONS.

REINFORCING STEEL (BARS A & B) SHALL BE #4 BARS CUT IN THE FIELD TO FIT. CONCRETE COLLARS SHALL CONFORM TO INSIDE DIAMETER OF PIPE CULVERTS.



MISCELLANEOUS DETAILS

© TXDOT SHEET 2 OF 2

CONT SECT JOB HIGHWAY

6459 45 001 SH 31

DIST COUNTY SHEET NO.

10 SMITH 12

6	
\$DATE\$	2FI ES
ATE:	<u>i</u>

Item 506.

☐ No Action Required

Action No.

. STORMWATER POLLUTION PREVENTION-CLEAN WATER ACT SECTION 402

Required Action

TPDES TXR 150000: Stormwater Discharge Permit or Construction General Permit

required for projects with 1 or more acres disturbed soil. Projects with any

disturbed soil must protect for erosion and sedimentation in accordance with

1. Prevent stormwater pollution by controlling erosion and sedimentation in

List MS4 Operator(s) that may receive discharges from this project.

They may need to be notified prior to construction activities.

accordance with TPDES Permit TXR 150000

responsit sulting fro	required by the Engineer.	evise when necessary to controlpo		IV. VEGETATION RESOURCES		Contact the Engineer if any of the follo Dead or distressed vegetation (r Trash piles, drums, conister, barr Undesirable smells or odors Evidence of leaching or seepage	not identified as normal) els, etc.
2.5	the site, accessible to the po	ublic and TCEQ, EPA or other inspe	ectors.	Preserve native vegetation to the	extent practical. ction Specification Requirements Specs 162,	Does the project involve any bridg	e class structure rehabilitation or
ossumes domodes		ific locations (PSL's) increase dist ubmit NOI to TCEQ and the Enginee		164, 192, 193, 506, 730, 751, 752 in	order to comply with requirements for ng, and tree/brush removal commitments.	replacements (bridge class structu 🔲 Yes 🔲 No	res not including box culverts)?
TxDOT cults or	II. WORK IN OR NEAR STREAM		ANDS CLEAN WATER	No Action Required	Required Action	If "No", then no further action is a If "Yes", then TxDOT is responsible	equired. for completing asbestos assessment
- چ چ	ACT SECTIONS 401 AND	404					spection positive (is asbestas present
rec Sree		ng, dredging, excavaling or other w	ork in any	Action No.		☐ Yes 🗵 No	
or for inco	water bodies, rivers, creeks, str The Contractor must adhere to the following permit(s):	earns, wettands or wet areas. o all of the terms and conditions a	ssociated with	1. 2.		the notification, develop abatement	a DSHS licensed asbestos consultant to /mitigation procedures, and perform in tation form to DSHS must be postma demolition.
on y part of the p	No Permit Required			3.		If "No", then TxDOT is still required	to notify DSHS 15 working days prio
the o	Nationwide Permit 14 - PCN wetlands affected)	not Required (less than 1/10th or	cre waters or	4.		scheduled demolition. In either case, the Contractor is re	sponsible for providing the date(s) for
t s	_	Required (1/10 to <1/2 ocre, 1/3	in tidal waters)				reful coordination between the Engineer nimize construction delays and subseq
9 5 9 5	Individual 404 Permit Require	•	III (IOOI WOLE) 37	V FEDERAL LISTED PROPOSED	THREATENED, ENDANGERED SPECIES.	Any other evidence indicating possi	ole hazardous materials or contaminati
s stor	Other Nationwide Permit Rec				STED SPECIES, CANDIDATE SPECIES		ntamination Issues Specific to this Pro
o find	Required Actions: List waters of	the US permit applies to, location	in project	AND MIGRATURY BIRDS.		No Action Required	Required Action
		octices planned to control erosion,		No Action Required	Required Action	Action No.	
				Action No.		1.	
	1,			ACTION NO.		2.	
	2.			1,		3.	
	3.			2.		VII. OTHER ENVIRONMENTAL ISS	<u>UES</u>
	4.			3.		(includes regional issues such as	
	The elevation of the ordinary hi	gh water marks of any areas requ	uiring work	4.		No Action Required	Required Action
		of the US requiring the use of a		*		Action No.	
				If any of the listed species are observ	ed, cease work in the immediate area,	1.	
	Best Management Practices			do not disturb species or habitat and o	contact the Engineer immediately. The m bridges and other structures during	2.	
	Erosion 	Sedimentation —	Post-Construction TSS —	nesting season of the birds associated	with the nests. If coves or sinkholes	3.	• •
	☐ Temporary Vegetation	Silt Fence	Vegetative Filter Strips	are discovered, cease work in the imm Engineer immediately.	ediate area, and contact the		Texas Department
	☐ Blankets/Malling	Rock Berm	Retention/Irrigation Systems				<u></u>
	☐ Mulch	Triangular Filler Dike	Extended Detention Bosin			_	ENVIRONME
#	Sodding Interceptor Swale	Sand Bag Berm	☐ Constructed Wellands ☐ Wet Basin	LIST OF	ABBRE VIATIONS		ISSUES AND
=	Diversion Dike	Brush Berms	Erosion Control Compost	BMP: Best Management Practice CGP: Construction General Permit	SPCC: Spill Prevention Control and Counterneosu SWSP: Storm Water Pollution Prevention Plan	re	1330E3 AND
	Erosion Control Compost	Erosion Control Compost	Mulch Filter Berm and Socks	DSHS: Texas Department of State Health Se FHWA: Federal Highway Administration			l F
	Mulch Filter Berm and Socks	Mulch Filter Berm and Socks	Compost Filter Berm and Socks	MOA: Memor andum of Agreement	TCEO: Texas Commission on Environmental Quality		_
4 H	Compost Filter Berm and Socks	Compost Filter Berm and Socks	✓ Vegetation Lined Ditches	MOU: Memor andum of Understanding MS4: Municipal Separate Starmwater Sewer		ten	FILE: epic.dgn © TxDOT: February 2015
 •		Stone Outlet Sediment Traps	Sond Filter Systems	MBTA: Migratory Bird Treaty Act NOT: Notice of Termination	TxDOT: Texas Department of Transportation T&E: Threatened and Endangered Species		RE VISIONS 12-12-2011 (DS)
DATE: FILE:		Sediment Bosins	Grassy Swales	NWP: Notionwide Permit NO: Notice of Intent	USACE: U.S. Army Corps of Engineers USFWS: U.S. Fish and Wildlife Service		05-07-14 ADDED NOTE SECTION IV. 01-23-2015 SECTION I(CHANGED ITEM 1122 TO ITEM 506, ADDED GRASSY SWALES.

III. CULTURAL RESOURCES

Action No.

2.

No Action Required

Refer to TxDOT Standard Specifications in the event historical issues or

Required Action

archeological artifacts are found during construction. Upon discovery of

archeological artifacts (bones, burnt rock, flint, pottery, etc.) cease

work in the immediate area and contact the Engineer immediately.

VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES

General (applies to all projects):

Comply with the Hazard Communication Act (the Act) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers aware of potential hazards in the workplace. Ensure that all workers are provided with personal protective equipment appropriate for any hazardous materials used.

Obtain and keep on-site Material Safety Data Sheets (MSDS) for all hazardous products used on the project, which may include, but are not limited to the following categories: Paints, acids, solvents, asphalt products, chemical additives, fuels and concrete curing compounds or additives. Provide protected storage, off bare ground and covered, for products which may be hazardous. Maintain product labelling as required by the Act. Maintain an adequate supply of on-site spill response materials, as indicated in the MSDS. In the event of a spill, take actions to mitigate the spill as indicated in the MSDS, in accordance with safe work practices, and contact the District Spill Coordinator immediately. The Contractor shall be responsible for the proper containment and cleanup of all product spills.

/inspection.

to assist with nonogement orked at least

or to any

abatement and uent claims.

ion discovered ject



NTAL PERMITS. COMMITMENTS

PIC

E: epic.dgn	DN: TxDOT		ск: RG	ow: VP	ck: AR	
TxDOT: February 2015	CONT	SECT	JOB		HIGHWAY	
REVISIONS 2-2011 (DS)	6459	45	001		SH 31	
07-14 ADDED NOTE SECTION IV.	DIST		COUNTY		SHEET NO.	
3-2015 SECTION I (CHANGED ITEM 1122 ITEM 506, ADDED GRASSY SWALES.	10		SMITH		13	

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

This SWP3 has been developed in accordance with TxDOT policy for projects disturbing less than 1 acre of soil, and not part of a larger common plan of development.

For projects with less than one acre of soil disturbing activity and that have Environmental, Permits, Issues, and Commitments (EPICs) dependent on stormwater controls and water quality measures TxDOT will maintain a SWP3 with all pertinent records, correspondence, environmental documents, etc. at the project field office, Area Office, or electronically.

This SWP3 is consistent with requirements specified in applicable stormwater plans, and the project's environmental permits, issues, and commitments (EPICs).

1.0 SITE/PROJECT DESCRIPTION

1.1 PROJECT CONTROL SECTION JOB (CSJ):

RMC 6459-45-001

1.2 PROJECT LIMITS:

VARIOUS LOCATIONS AT THE TYLER DISTRICT OFFICE

1.3 PROJECT COORDINATES:

BEGIN: (Lat) 32.3468254,(Long) -95.3304749

END: (Lat) 32.3468254,(Long) -95.3304749

1.4 TOTAL PROJECT AREA (Acres): 5.0

1.5 TOTAL AREA TO BE DISTURBED (Acres): 0.245

1.6 NATURE OF CONSTRUCTION ACTIVITY:

THE REPAIR OF DRAINAGE STRUCTURES AND VARIOUS LANDSCAPING IMPROVEMENTS.

1.7 MAJOR SOIL TYPES:

Soil Type	Description
SAND	EXISTING TOPSOIL
CLAY	EXISTING TOPSOIL

1.8 PROJECT SPECIFIC LOCATIONS (PSLs):

PSLs must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. PSLs may be identified during preconstruction meetings or during the construction process. Please choose from the options below:

PSLs determined during preconstruction meeting

PSLs determined during construction

No PSLs planned for construction

Туре	Sheet #s
	1

All off-ROW PSLs required by the Contractor are the Contractor's responsibility. The Contractor shall secure all permits required by local, state, federal laws for off-ROW PSLs. The contractor shall provide diagrams, areas of disturbance, acreage, and BMPs for all off-ROW PSLs within one mile of the project.

1.9 CONSTRUCTION ACTIVITIES:

(Use the following list as a starting point when developing the Construction Activity Schedule and Ceasing Record in Attachment 2.3.)

- ✗ Mobilization
- ✗ Install sediment and erosion controls
- Blade existing topsoil into windrows, prep ROW, clear and grub
- Remove existing pavement
- Grading operations, excavation, and embankment
- Excavate and prepare subgrade for proposed pavement widening
- ✗ Remove existing culverts, safety end treatments (SETs)
- Remove existing metal beam guard fence (MBGF), bridge rail
- ☐ Install proposed pavement per plans
- ✗ Install culverts, culvert extensions, SETs
- ☐ Install mow strip, MBGF, bridge rail
- Place flex base

Other:

- Rework slopes, grade ditches
- Blade windrowed material back across slopes
- ✗ Revegetation of unpaved areas
- ✗ Achieve site stabilization and remove sediment and erosion control measures

Other:			

Other:				

1.10 POTENTIAL POLLUTANTS AND SOURCES:

- Sediment laden stormwater from stormwater conveyance over disturbed area Fuels, oils, and lubricants from construction vehicles, equipment, Solvents, paints, adhesives, etc. from various construction Transported soils from offsite vehicle tracking Construction debris and waste from various construction activities
- Contaminated water from excavation or dewatering pump-out
- Sanitary waste from onsite restroom facilities
- Trash from various construction activities/receptacles
- Long-term stockpiles of material and waste
- Discharges from concrete washout activities, runoff from concrete cutting activities, and other concrete related activities

□ Other: _				
□ Other:				

□ Other:			

1.11 RECEIVING WATERS:

Receiving waters must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. Include Segment # for receiving waters.

Tributaries	Classified Waterbody
WILLOW CREEK	

Add (*) for impaired waterbodies with pollutant in ().

1.12 ROLES AND RESPONSIBILITIES: TxDOT

- X Development of plans and specifications
- X Perform SWP3 inspections
- X Maintain SWP3 records and update to reflect daily operations

Otner.			
Other:			

1	1 13	ROLES	ANDR	FSPONSIF	RII ITIES:	CONTRA	7CTO

X Day To Day Operational Control

□ Other:

X Maintain schedule of major construction activities

X Install, maintain and modify BMPs

□ Other:			

STORMWATER POLLUTION **PREVENTION PLAN (SWP3)** (Less Than 1 Acre)



* July 2023 Sheet 1 of 2

FED. RD. DIV. NO.		PROJECT NO.			
		RMC 6459-45-001			
STATE		STATE DIST.	COUNTY		
TEXAS 10		10	SMITH		
CONT.		SECT.	JOB	HIGHWAY 1	٧0.
6/50		45	001	SH 31	

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

2.0 BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS, INSPECTION, AND MAINTENANCE

The Contractor shall be the responsible party for implementing the BMPs described herein and for complying with the SWP3 for control of erosion and sedimentation during day-to-day operations. The Contractor shall implement changes to this SWP3 approved by TxDOT within the times specified in this SWP3 or the CGP.

2.1 EROSION CONTROL AND SOIL STABILIZATION BMPs:
T/P
X Protection of Existing Vegetation
□ □ Vegetated Buffer Zones
□ □ Soil Retention Blankets
□ □ Geotextiles
□ □ Mulching/ Hydromulching
□ □ Soil Surface Treatments
□ □ Temporary Seeding
□ 🗴 Permanent Planting, Sodding or Seeding
□ □ Biodegradable Erosion Control Logs
□ □ Rock Filter Dams/ Rock Check Dams
□ □ Vertical Tracking
□ □ Interceptor Swale
□ □ Riprap
□ □ Diversion Dike
□ □ Temporary Pipe Slope Drain
□ □ Embankment for Erosion Control
□ □ Paved Flumes
□ Other:
□ Other:
□ □ Other:

	Ш	Otner:
2.2	2 S	EDIMENT CONTROL BMPs:
Т/	P	
		Biodegradable Erosion Control Logs
		Dewatering Controls
		Inlet Protection
		Rock Filter Dams/ Rock Check Dams
		Sandbag Berms
X		Sediment Control Fence
		Stabilized Construction Exit
		Floating Turbidity Barrier
		Vegetated Buffer Zones
		Vegetated Filter Strips
		Other:

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets

located in Attachment 1.2 of this SWP3

2.3 PERMANENT CONTROLS:

(Coordinate post-construction BMPs with appropriate TxDOT maintenance sections.)

Type	Sta	tioning
Туре	From	То
the Carine and the	t Obt- / OVA/D	10.1
o the Environmental Layon in Attachment 1.2 of this		5 Layout Si
m Addonnent 1.2 Of the	3 0 1 1 1 0	

2.4 OFFSITE VEHICLE TRACKING CONTROLS:

□ Excess dirt/mud on road removed daily
☐ Haul roads dampened for dust control
X Loaded haul trucks to be covered with tarpaulir
☐ Stabilized construction exit
☐ Daily street sweeping
□ Other·

□ Other: _			
☐ Other:			

_			
Other:			
Othich.			
_			

2.5 POLLUTION PREVENTION MEASURES:

- Chemical Management
- ✗ Concrete and Materials Waste Management
- ☐ Debris and Trash Management
- ☐ Dust Control
- Sanitary Facilities

□ Other:		
☐ Other:		

- Otto		
Other:		

2.6 VEGETATED BUFFER ZONES:

Natural vegetated buffers shall be maintained as feasible to protect adjacent surface waters. If vegetated natural buffer zones are not feasible due to site geometry, the appropriate additional sediment control measures have been incorporated into this SWP3.

Type	Stati	oning
Туре	From	То
		[

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.7 ALLOWABLE NON-STORMWATER DISCHARGES:

- X Fire hydrant flushings
- X Irrigation drainage
- X Pavement washwater (where spills or leaks have not occurred, and detergents are not used)
- X Potable water sources
- X Springs
- X Uncontaminated groundwater
- X Water used to wash vehicles or control dust
- X Other allowable non-stormwater discharges as allowed by TPDES GP TXR150000.

2.8 DEWATERING:

Dewatering discharges of accumulated stormwater, groundwater, and surface water including discharges from dewatering of trenches, excavations, foundations, vaults, and other points of accumulation are prohibited unless managed by appropriate controls to prevent and minimize the offsite discharge of sediment and other pollutants.

2.9 INSPECTIONS:

All disturbed areas and erosion and sediment control devices shall be inspected at least once every seven (7) days. Inspections shall be performed by TxDOT as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3.

2.10 MAINTENANCE:

Control measures shall be properly installed according to specifications. If it is determined that a BMP or control measure is not operating effectively, maintenance must be accomplished as soon as possible and before the next anticipated rain event, but in no case later than 7 calendar days after being able to access the site. Maintenance shall be performed by the Contractor as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3.

STORMWATER POLLUTION PREVENTION PLAN (SWP3) (Less Than 1 Acre)



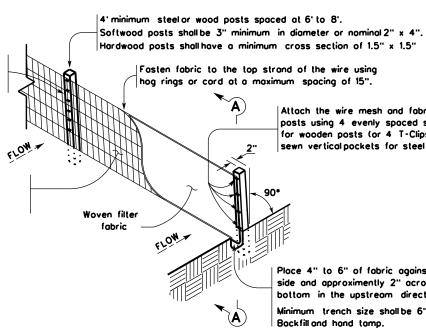
[®] July 2023 Sheet 2 of 2

Texas Department of Transportation

FED. RD. DIV. NO.		PROJECT NO.				
		RMC 6459-45-001 15				
STATE	STATE COUNTY					
TEXAS 10		SMITH				
CONT.		SECT.	JOB	HIGHWAY NO.		
6459 45 001 SH 31		·				

Connect the ends of the successive reinforcement sheets or rolls a minimum of 6 times with hog rings.

Galvanized welded wire mesh (W.W.M.) (12.5 GA. SWG Min.) with a maximum opening size of 2"x 4"or Woven Mesh (W.M.)(See woven mesh option detail)



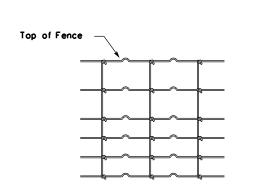
Attach the wire mesh and fabric on end posts using 4 evenly spaced staples for wooden posts (or 4 T-Clips or sewn vertical pockets for steel posts).

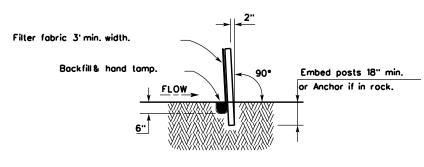
Place 4" to 6" of fabric against the trench side and approximently 2" across the trench bottom in the upstream direction.

Minimum trench size shall be 6" square. Backfill and hand tamp.

TEMPORARY SEDIMENT CONTROL FENCE







SECTION A-A

HINGE JOINT KNOT WOVEN MESH (OPTION) DETAIL

Galvanized hinge joint knot woven mesh (12.5 GA.SWG Min.) requires a minimum of five horizontal wires spaced at a maximum of 12 inches apart and all vertical wires spaced at a maximum of 12 inches apart.

SEDIMENT CONTROL FENCE USAGE GUIDELINES

A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2 year storm frequency may be used to calculate the flow rate to be filtered.

Sediment control fence should be sized to filter a maximum flow through rate of 100 GPM/FT . Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.

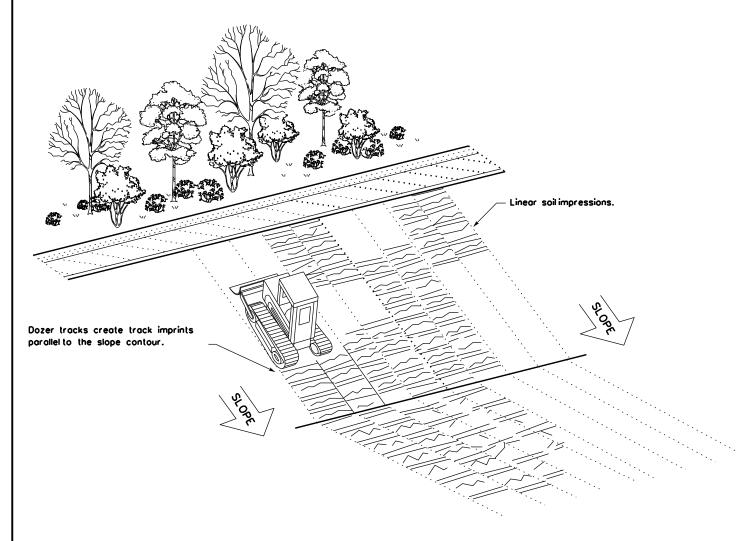
LEGEND

Sediment Control Fence



GENERAL NOTES

- 1. Vertical tracking is required on projects where soil distributing activities have occurred unless otherwise approved.
- 2. Perform vertical tracking on slopes to temporarily stabilize soil.
- Provide equipment with a track undercorriage capable of producing linear soil impressions measuring a minimum of 12" in length by 2" to 4" in width by 1/2" to 2" in depth.
- 4. Do not exceed 12" between track impressions.
- 5. Install continous linear track impressions where the minimum 12" length impressions are perpendicular to the slope or direction of water flow.



VERTICAL TRACKING

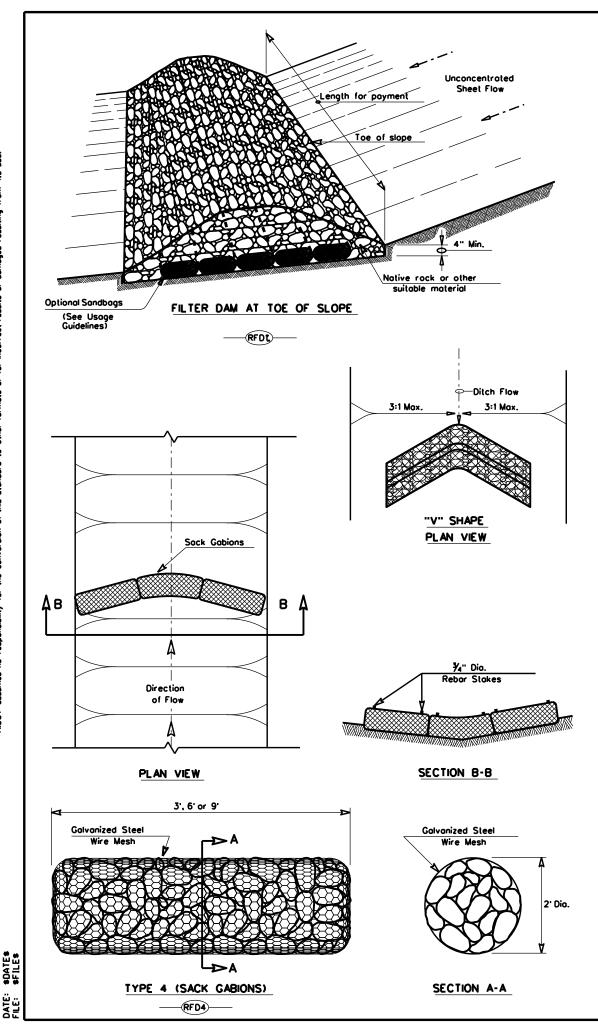


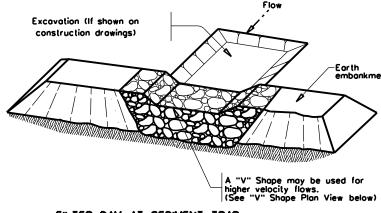
TEMPORARY EROSION. SEDIMENT AND WATER POLLUTION CONTROL MEASURES FENCE & VERTICAL TRACKING

EC(1)-16

ILE: ec116	DN: TxD	ОТ	ск: КМ	DW: \	/P	DN/CK: LS		
TxDOT: JULY 2016	CONT	SECT	JOB		HIGHWAY			
REVISIONS	6459	459 45 001				SH 31		
	DIST	COUNTY				SHEET NO.		
	10	SMITH				16		

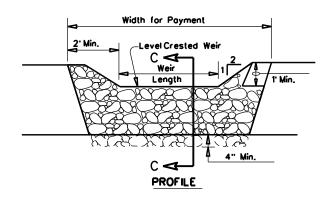


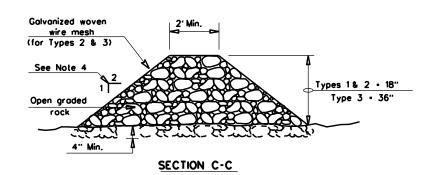




FILTER DAM AT SEDIMENT TRAP







ROCK FILTER DAM USAGE GUIDELINES

Rock Filter Dams should be constructed downstream from disturbed areas to intercept sediment from overland runoff and/or concentrated flow. The dams should be sized to filter a maximum flow through rate of 60 GPM/FT² of cross sectional area. A 2 year storm frequency may be used to calculate the flow rate.

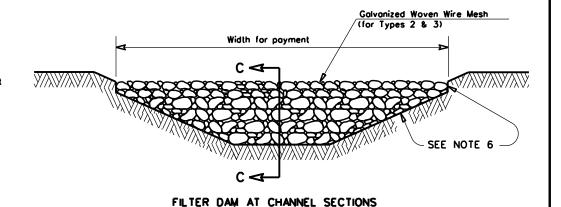
Type 1 (18" high with no wire mesh) (3" to 6" aggregate): Type 1 may be used at the toe of slopes, around inlets, in small ditches, and at dike or swale outlets. This type of dam is recommended to control erosion from a drainage area of 5 acres or less. Type 1 may not be used in concentrated high velocity flows (approximently 8 Ft/Sec or more) in which aggregate wash out may occur. Sandbags may be used at the embedded foundation (4" deep min.) for better filtering efficiency of low flows if called for on the plans or directed by the Engineer.

Type 2 (18" high with wire mesh) (3" to 6" aggregate): Type 2 may be used in ditches and at dike or swale outlets.

Type 3 (36" high with wire mesh) (4" to 8" aggregate): Type 3 may be used in stream flow and should be secured to the stream bed.

Type 4 (Sack gabions) (3" to 6" aggregate): Type 4 May be used in ditches and smaller channels to form an erosion control dam,

Type 5: Provide rock filter dams as shown on plans.



GENERAL NOTES

- 1. If shown on the plans or directed by the Engineer, filter dams should be placed near the toe of slopes where erosion is anticipated, upstream and/or downstream at drainage structures, and in roadway ditches and channels to collect sediment.
- 2. Materials (aggregate, wire mesh, sandbags, etc.) shall be as indicated by the specification for "Rock Filter Dams for Erosion and Sedimentation
- 3. The rock filter dam dimensions shall be as indicated on the SW3P plans.
- 4. Side slopes should be 2:1 or flatter. Dams within the safety zone shall have sideslopes of 6:1 or flatter.
- 5. Maintain a minimum of 1 between top of rock filter dam weir and top of embankment for filter dams at sediment traps.
- 6. Filter dams should be embedded a minimum of 4" into existing ground.
- 7. The sediment trop for ponding of sediment laden runoff shall be of the dimensions shown on the plans.
- 8. Rock filter dam types 2 & 3 shall be secured with 20 gauge galvanized woven wire mesh with 1" diameter hexagonal openings. The aggregate shall be placed on the mesh to the height & slopes specified. The mesh shall be folded at the upstream side over the aggregate and tightly secured to itself on the downstream side using wire ties or hog rings. For in stream use, the mesh should be secured or staked to the stream bed prior to aggregate placement.
- 9. Sack Gabions should be staked down with $\frac{\pi}{4}$ dia. rebar stakes, and have a double-twisted hexagonal weave with a nominal mesh opening of 2 $\frac{1}{2}$ " x 3 $\frac{1}{4}$ "
- 10. Flow outlet should be onto a stabilized area (vegetation, rock, etc.).
- 11. The guidelines shown hereon are suggestions only and may be modified by

PLAN SHEET LEGEND

Type 1 Rock Filter Dam -(RFD1)--RFD2)-Type 2 Rock Filter Dam RFD3 Type 3 Rock Filter Dam ——RFD4 Type 4 Rock Filter Dam



TEMPORARY EROSION. SEDIMENT AND WATER POLLUTION CONTROL MEASURES ROCK FILTER DAMS

EC(2)-16

				_				
LE: ec216	DN: TxD	OT	CK: KM	ow: VP		DN/CK: LS		
TxDOT: JULY 2016	CONT	SECT	JOB		HIGHWAY			
REVISIONS	6459	459 45 001				SH 31		
	DIST	COUNTY			SHEET NO.			
	10		SMITH			17		