CITY OF BATON ROUGE PARISH OF EAST BATON ROUGE DEPARTMENT OF ENVIRONMENTAL SERVICES

June 19, 2025

ADDENDUM NO. 1

TO: ALL BIDDERS

SUBJECT: EAST BOULEVARD/GOVERNMENT STREET AREA SEWER REHABILITATION PROJECT – PHASE 2 CITY-PARISH PROJECT NO. 12-AR-MS-041A

BID DATE: Tuesday, June 24th, 2025 at 2:00 PM

The following revisions shall be incorporated in and take precedence over any conflicting part of the original contract document:

PART 1 – UNIFORM CONSTRUCTION BID FORMS:

- 1. For paper sealed bidders, with reference to page UCBF 1 of 4 of Part 1, Uniform Construction Bid Forms, the Bidder shall indicate the receipt of this addendum in the space provided. For online Central Bidding bidders, an acknowledgement of this addendum will be prompted by the electronic bidding program prior to formally submitting the bid. Failure to indicate the receipt of this addendum shall be cause for the bid to be rejected.
- Replace the Unit Price Form with the attached Revised Unit Price Form (dated 06/18/25). This Revised Unit Price Form MUST be used by all Bidders for this project. The UCBF on the Central Bidding website has been updated to reflect the changes on the attached UCBF. Failure to submit on the revised Unit Price Form shall be cause for the bid to be rejected.
- 3. Delete existing Public Contract Affidavit per LA RS 38:2224 and replace with the revised copy attached to this Addendum.

PART 2 - SPECIAL PROVISIONS AND CONTRACT DOCUMENTS:

- 1. For paper sealed bidders, with reference to page UCBF 1 of 4 of Part 1, Uniform Construction Bid Forms, the Bidder shall indicate the receipt of this addendum in the space provided. For online Central Bidding bidders, an acknowledgement of this addendum will be prompted by the electronic bidding program prior to formally submitting the bid. Failure to indicate the receipt of this addendum shall be cause for the bid to be rejected.
- Replace the Unit Price Form with the attached Revised Unit Price Form (dated 06/18/25). This Revised Unit Price Form MUST be used by all Bidders for this project. The UCBF on the Central Bidding website has been updated to reflect the changes on the attached UCBF. Failure to submit on the revised Unit Price Form shall be cause for the bid to be rejected.

Addendum No. 1 Dated: June 19, 2025 Page 1 of 4 3. Delete existing Public Contract Affidavit per LA RS 38:2224 and replace with the revised copy attached to this Addendum.

SPECIAL PROVISIONS

1. Remove Appendix A – Sanitary Sewer Cutsheets and Service Re-Instatement Plan and replace with the copy attached to this Addendum.

DRAWINGS

- 1. Remove C-1 Existing Conditions and Abandonment Plan and replace with C-1R attached to this Addendum.
- 2. Add attached Standard Plans 201 237 after Page C-3 Proposed Sewer Plan and Profile.

QUESTIONS

1. What is the intention for removal of asphalt. Is the intention only to remove pipe trench or remove and replace from edge of road to edge of road?

The intention is to only remove and replace the asphalt within the pipe trench for the main line and the service lines. See City-Parish Standard Detail 801-01 Bedding and Backfill Details for Sanitary Sewer Pipe, Force mains and Service Lines. This Standard Detail has been added to the project drawings as sheet number 205 and has been attached to this Addendum.

2. Required MH 059-06335B does not show T.C. or Inv. Please advise.

The intention is for the top elevation to match existing asphalt and for the invert of the pipe to match the existing invert at the specified distance from railroad tracks (50'). The manhole depth is expected to be 6.1' - 8.0' in this location. Contractor to field verify locations, elevations, and inverts of manholes prior to starting work.

3. How is contractor getting paid to remove existing manholes?

MH 059-06335 is to be paid under Pay Item Number 8034000 Abandon Sewer Manhole.

The removal and disposal of all other existing manholes within the project scope are covered under the Sanitary Sewer Manholes pay item.

4. Are we able to close the road and keep the road closed with a proper detour set up?

See Section 7-5 within the special provisions, Note 19 and 20 on Sheet G-2 and Note 5 on Sheet C-1 within the project drawings. The contractor shall apply and receive a permit from the City-Parish Traffic Engineering division prior to performing any road closures. The contractor shall also provide the Engineer a copy of the Traffic Control plan to be approved by the Engineer and CPKC Railroad. It is the contractor's sole responsibility to provide for public safety and traffic control. All nearby business and residential homes shall always have access to their property

during the work.

 Affidavit LA R.S. 38:2224 – Please clarify which Affidavit is to be submitted as there are (2) different affidavit templates for LA R.S. 38:2224. One affidavit is in Part 1A documents, and the other one is in Part 2. Both have different form revision dates.

Both AF-1 and AF-2 are required. Delete existing Public Contract Affidavit per LA RS 38:2224 and replace with the revised copy attached to this Addendum.

6. Are Prevailing Wages required on this project? If so, please provide applicable rates?

This project is not federally funded, prevailing wages are not required.

7. Is this project tax exempt?

This project is not tax exempt.

8. Is this project Federally Funded? If so, please provide all Federal Terms & Conditions that are applicable contracts utilizing American Rescue Plant Act, State and Local Fiscal Recovery Funds.

This project is not Federally Funded.

9. Can you include east baton parish standard plans 201-237 on advertisement link on central auction house?

The referenced standard details have been added to this addendum.

10. Can a trench section detail be provided for asphalt thickness and bedding thickness required for new gravity sewer?

See question 1.

11. Can a sewer mh detail be provided along with bedding details for sewer?

Standard detail number 803-01 Sanitary Sewer Manholes has been added to the project drawings as sheet number 208-211 and attached to this addendum.

12. Please clarify the bid items 6" and 8" sewer rehab pay items the specification description seems to overlap the 8"gravity sewer line items and just wanted clarity on what to include in this bid item.

Pay Item Number 802200B and 802200C have been removed.

13. Will sections or blocks of convention street be able to be closed down since work is in middle of the street and at 12" water line offset location?

See question 4.

14. Are the line items for 6" and 8" Rehab for CIPP rehab? If so, can you provide a specification section for that?

See question 12. CIPP rehab is not within the scope of this project.

15. Can you provide drawings that indicate where the CIPP is to be utilized?

See question 14.

16. The specifications have literature on rehabilitating laterals to a cleanout at ROW, if the mainline is receiving a main line liner. If that is indeed inclusive of this project, could you please provide a line item and estimated quantity as well as diameters of services. (eg. 8" main x 4" lateral liner, 8" main x 6" lateral liner, etc)

See question 14.

17. In looking at the Bid Items there are no items for the removal and replacement of the existing pavement and base for the pipe installation as described in the project advertisement. There are also no items for tie-ins of existing lateral lines.

The removal of Asphalt Surfacing and Base will be paid under Item number 2020500 Removal of Asphalt Surfacing and Base. The replacement of Asphalt Concrete Pavement and Base will be paid under item number 5011100 Restore Asphalt Concrete Pavement and Base.

Laterals will be paid under item number 8024100 Sewer Service Lateral. Service Lateral tie-ins are all-inclusive under the Sewer Service Lateral pay item.

18. The Plans are not clear about the required Manhole 059-06335B just East of the RR, such as top and invert, and the direction of the flow of sewer on the East side of the RR after you abandon a segment of the existing flowline.

See question 2. The intent is to abandon the main line under the CPKC Railroad track, installing new manholes outside of the CPKC ROE. MH 059-06335B (west side of tracks) will flow to the west into existing MH 059-06330A. MH 059-06335 (required MH as shown on C-2) will flow towards the east into required MH 060-07012.

Koby J. Mancuso, P.E.



LOUISIANA UNIFORM PUBLIC WORK BID FORM UNIT PRICE FORM

TO: CITY OF BATON ROUGE
PARISH OF EAST BATON ROUGE
PURCHASING DIVISION, ROOM 826
222 SAINT LOUIS ST, CITY HALL
BATON ROUGE, LOUISIANA 70802

BID FOR: EAST BOULEVARD/GOVERNMENT STREET AREA SEWER

REHABILITATION PROJECT - PHASE 2

CITY PARISH PROJECT NO.: 12-AR-MS-041A

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	_X_ Base Bid orAlt.#	Removal of Asphalt Surfacing and Base			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)	
2020500	800	Square Yard			
DESCRIPTION:	_ <u>X</u> _Base Bid orAlt.#	Removal of Concrete Walks	s and Drives		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)	
2020600	80	Square Yard			
DESCRIPTION:	_ <u>X</u> _ Base Bid orAlt.#	Saw Cutting Concrete or As	sphalt		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)	
2020900	1900	Linear Foot			
DESCRIPTION:	_ <u>X</u> _Base Bid orAlt.#	Restore Asphalt Concrete P	avement and Base		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)	
5011100	800	Square Yard			
DESCRIPTION:	_ <u>X</u> _Base Bid orAlt.#	#610 Stone Backfill			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)	
8013100	520	Cubic Yard			
DESCRIPTION:	_ <u>X</u> _ Base Bid orAlt.#	PVC Sewer Pipe (0 - 6 Feet) (8")		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)	
802100C	440	Linear Foot			
DESCRIPTION:	_ <u>X</u> _Base Bid orAlt.#	PVC Sewer Pipe (6.1 - 8 Fe	et) (8")		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)	
802101C	260	Linear Foot			
	-				
DESCRIPTION:	_ <u>X</u> _Base Bid orAlt.#	Connections to Existing Ma	nholes		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)	
8023000	1	Each			

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DESCRIPTION:	_X_ Base Bid orAlt.#	Sewer Service Lateral		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
8024100	180	Linear Foot		
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DESCRIPTION:	_X_ Base Bid orAlt.#	Non-Shear Couplings (4")		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
802500A	5	Each		
DESCRIPTION:	_X_ Base Bid orAlt.#	Non-Shear Couplings (6")		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
802500B	10	Each		
DESCRIPTION:	<u>X</u> Base Bid or <u>Alt.#</u>	Sanitary Sewer Clean-out		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
8026000	15	Each		
DESCRIPTION:	_X_ Base Bid orAlt.#	48" Sanitary Sewer Manhol	e (0 - 6 Feet)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
8031480	2	Each		
DESCRIPTION:	<u>X</u> Base Bid orAlt.#	48" Sanitary Sewer Manhol	le (6.1 - 8 Feet)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
8031481	2	Each		
DESCRIPTION:	_X_ Base Bid orAlt.#	Abandon Sewer Manhole		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
8034000	1	Each		
DESCRIPTION:	_X_ Base Bid orAlt.#	Miscellaneous Work and C	leanup	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
8211101	1	Lump Sum		

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CITY PARISH PROJECT NO .: 12-AR-MS-041A

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	_X_ Base Bid orAlt.#	Seed		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
9030800	50	Pound		
DESCRIPTION:	_X_ Base Bid orAlt.#	Fertilizer		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
9030900	20	Pound		
DESCRIPTION:	_X_ Base Bid orAlt.#	Water		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
9031000	0.25	M-Gallons		
DESCRIPTION:	_X_ Base Bid orAlt.#	Storm Water Pollution Prev	ention Plan	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
9031600	1	Lump Sum		
DESCRIPTION:	_X_ Base Bid orAlt.#	Temporary Signs and Barric	ades	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
9050100	1	Lump Sum		
DESCRIPTION:	_X_Base Bid orAlt.#	4" Concrete Walks		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
9070304	50	Square Yard		
DESCRIPTION:	_ <u>X</u> _Base Bid orAlt.#	6" Concrete Drives		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
9070406	30	Square Yard		
DESCRIPTION:	_X_ Base Bid orAlt.#	Mobilization		
	_X_Base Bid orAlt.# QUANTITY:	Mobilization UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)

TO: <u>CITY OF BATON ROUGE</u> <u>PARISH OF EAST BATON ROUGE</u> <u>PURCHASING DIVISION, ROOM 826</u> <u>222 SAINT LOUIS ST, CITY HALL</u> <u>BATON ROUGE, LOUISIANA 70802</u>

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UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	_X_ Base Bid orAlt.#	Flowable Fill		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
9110000	2	Cubic Yard		
DESCRIPTION:	_ <u>X</u> _Base Bid orAlt.#		n (Fixed Amount of \$25,000)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
9999991	1	Lump Sum	25000	25000
DESCRIPTION:	_X_Base Bid orAlt.#	Railroad Flagman and Con	struction Observation Allowance (Fixed Amount of \$5,000)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
9999992	1	Lump Sum	5000	5000
DESCRIPTION:	Base Bid orAlt.#	NOT USED		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
DESCRIPTION	D D'1 41/	NOTHER		
DESCRIPTION:	Base Bid orAlt.#	NOT USED		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
DESCRIPTION:	Base Bid orAlt.#	NOT USED		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
DESCRIPTION:	Base Bid orAlt.#	NOT USED		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
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DESCRIPTION:	Base Bid orAlt.#	NOT USED		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
k				1

AFFIDAVIT

STATE OF LOUISIANA PARISH OF EAST BATON ROUGE

BEFORE ME, the undersigned authority, personally came and appeared

who, being duly sworn did depose and say: That he is a duly authorized representative of _____

receiving value for services rendered in connection with:

EAST BOULEVARD/GOVERNMENT STREET AREA SEWER REHABILITATION PROJECT – PHASE 2

(CITY PARISH PROJECT NO. 12-AR-MS-041A)

a public project of the City of Baton Rouge, Parish of East Baton Rouge, Louisiana; that he has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by him whose services in connection with the construction, alteration, or demolition of the public building or project or in securing the public contract were in the regular course of their duties for him; and that no part of the contract price received by him was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by him whose services in connection with the construction of the public building or project were in the regular course of their duties for him.

This affidavit is executed in compliance with the provisions of LA R.S. 38:2224.

Affiant's Signature

SWORN TO AND SUBSCRIBED before me, on this _____ day of _____20__.

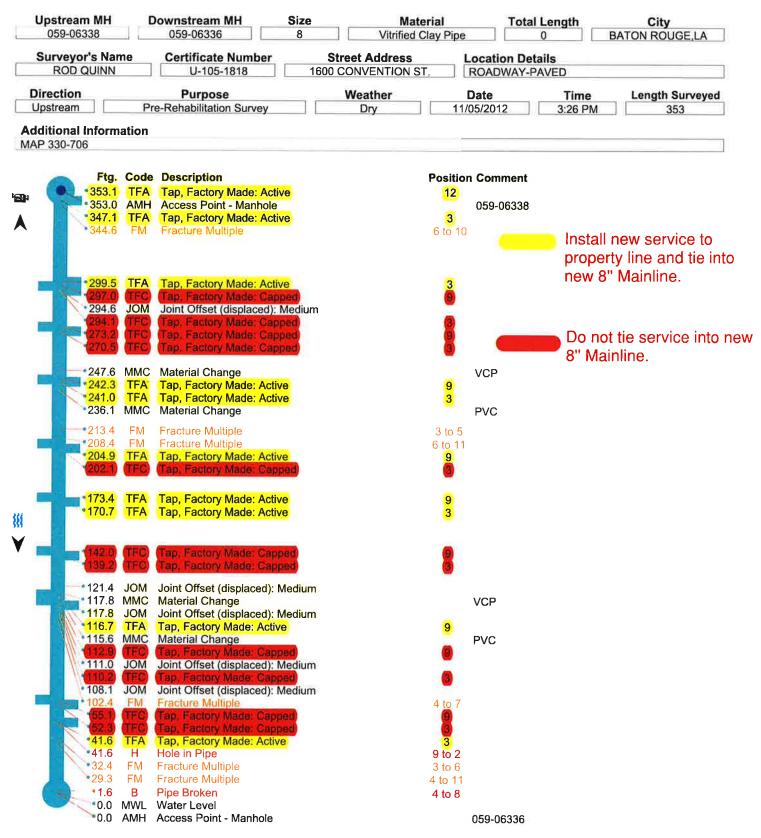
Baton Rouge, Louisiana

NOTARY PUBLIC



PACP Inspection Report

329 Chippewa Street Baton Rouge, LA 70805 Phone: (225) 389-3154 Fax: (225) 389-7618

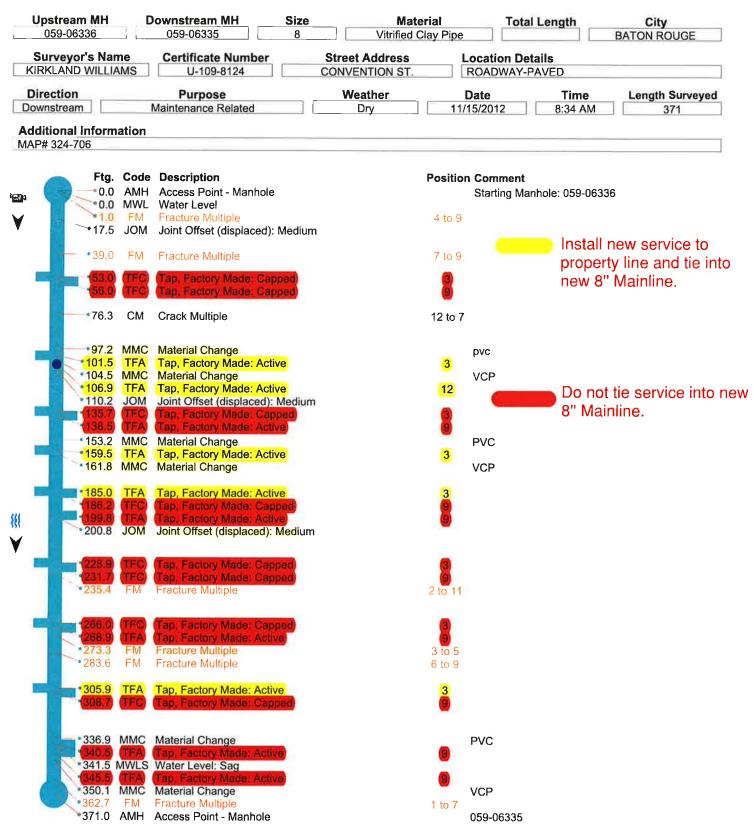


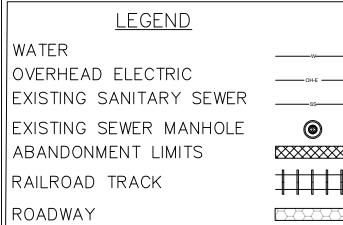
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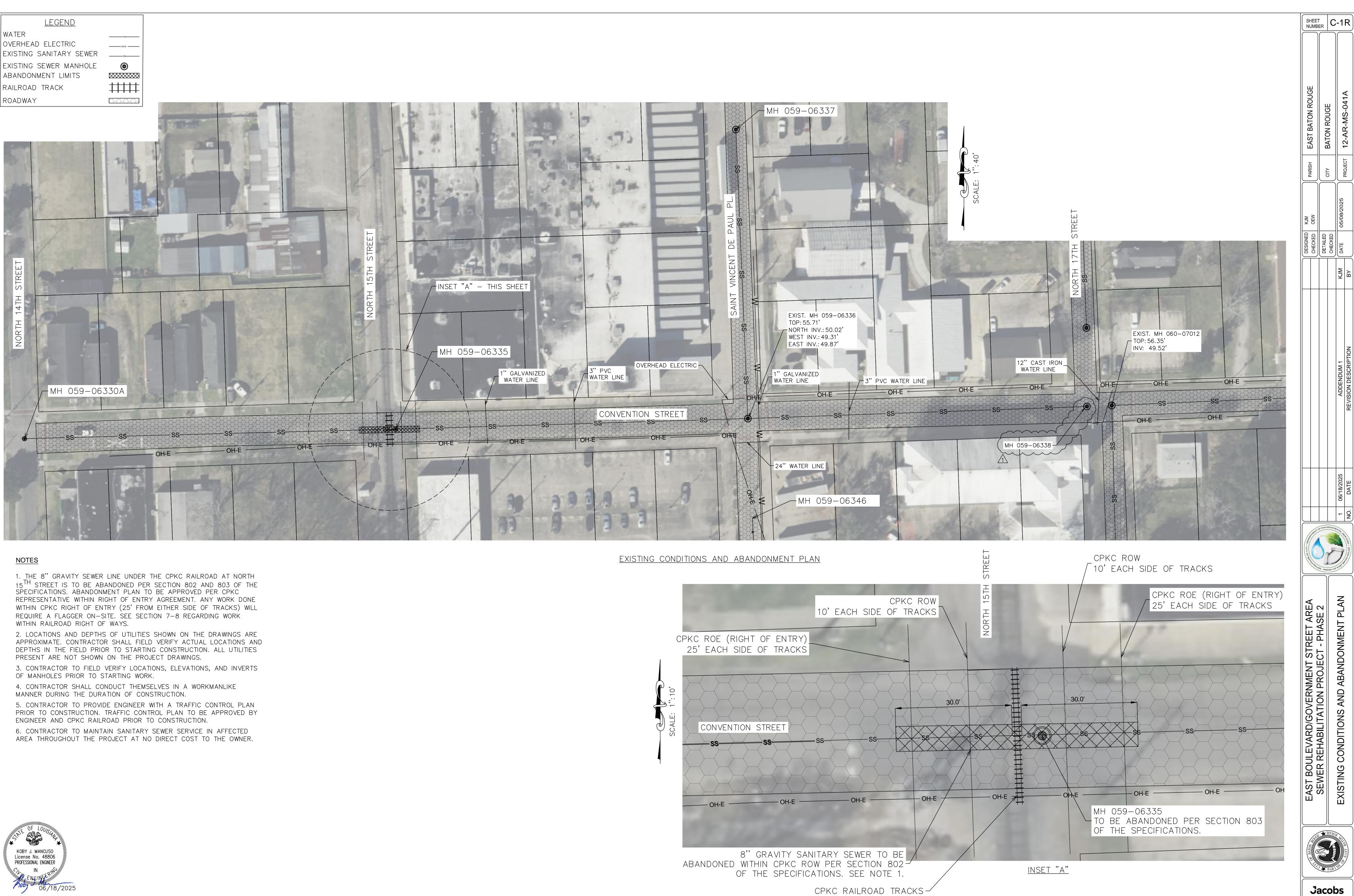


PACP Inspection Report

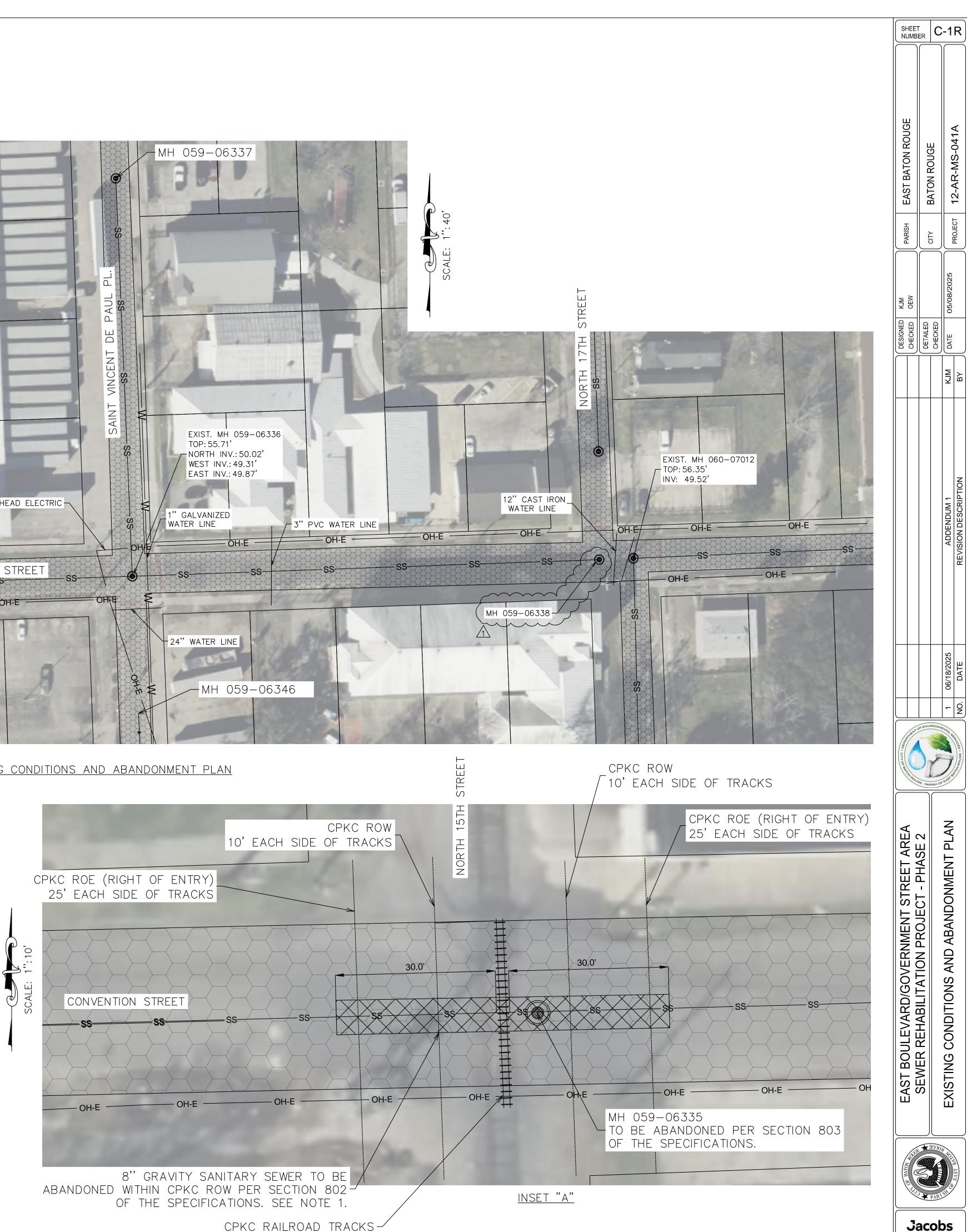
329 Chippewa Street Baton Rouge, LA 70805 Phone: (225) 389-3154 Fax: (225) 389-7618

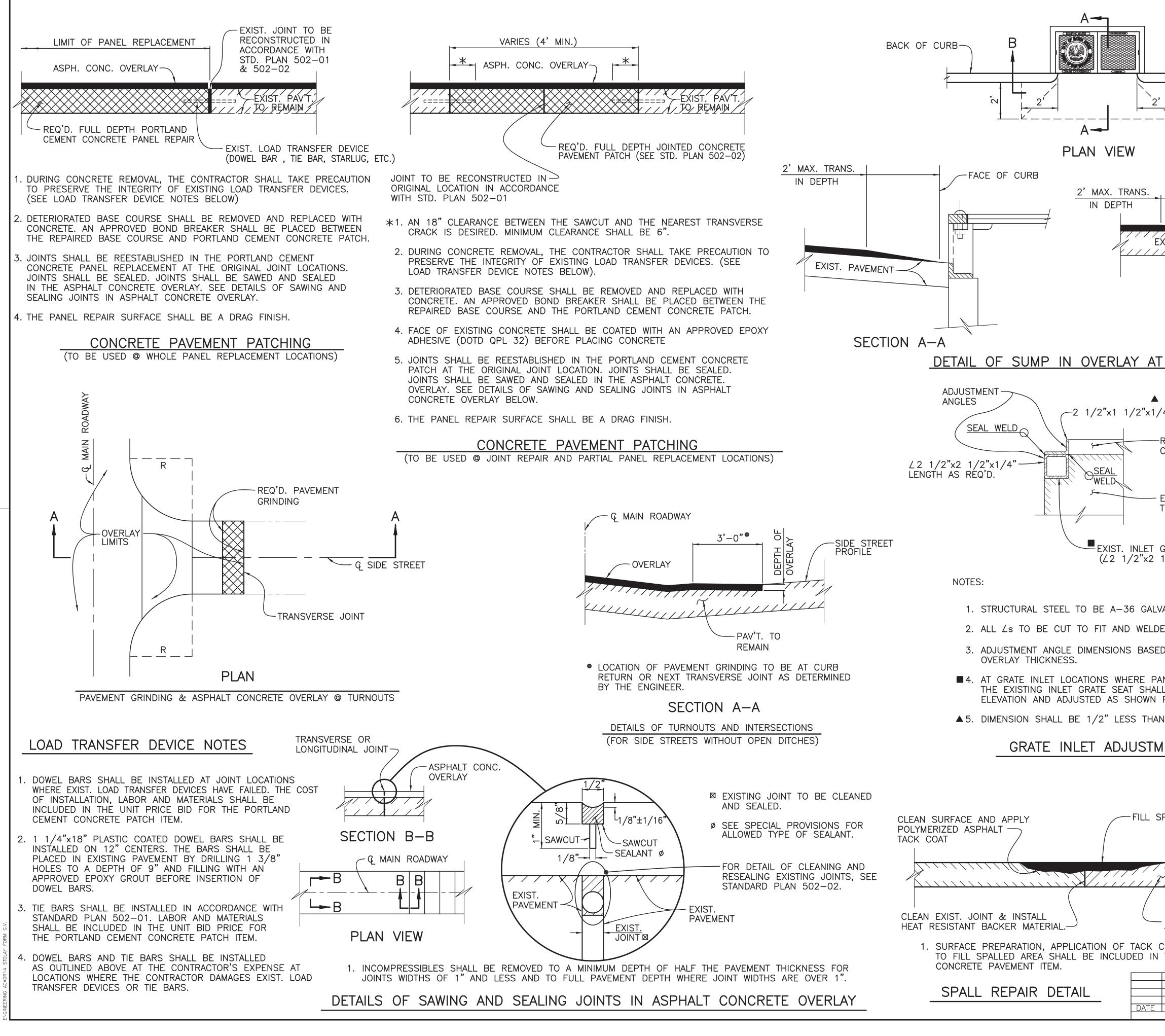




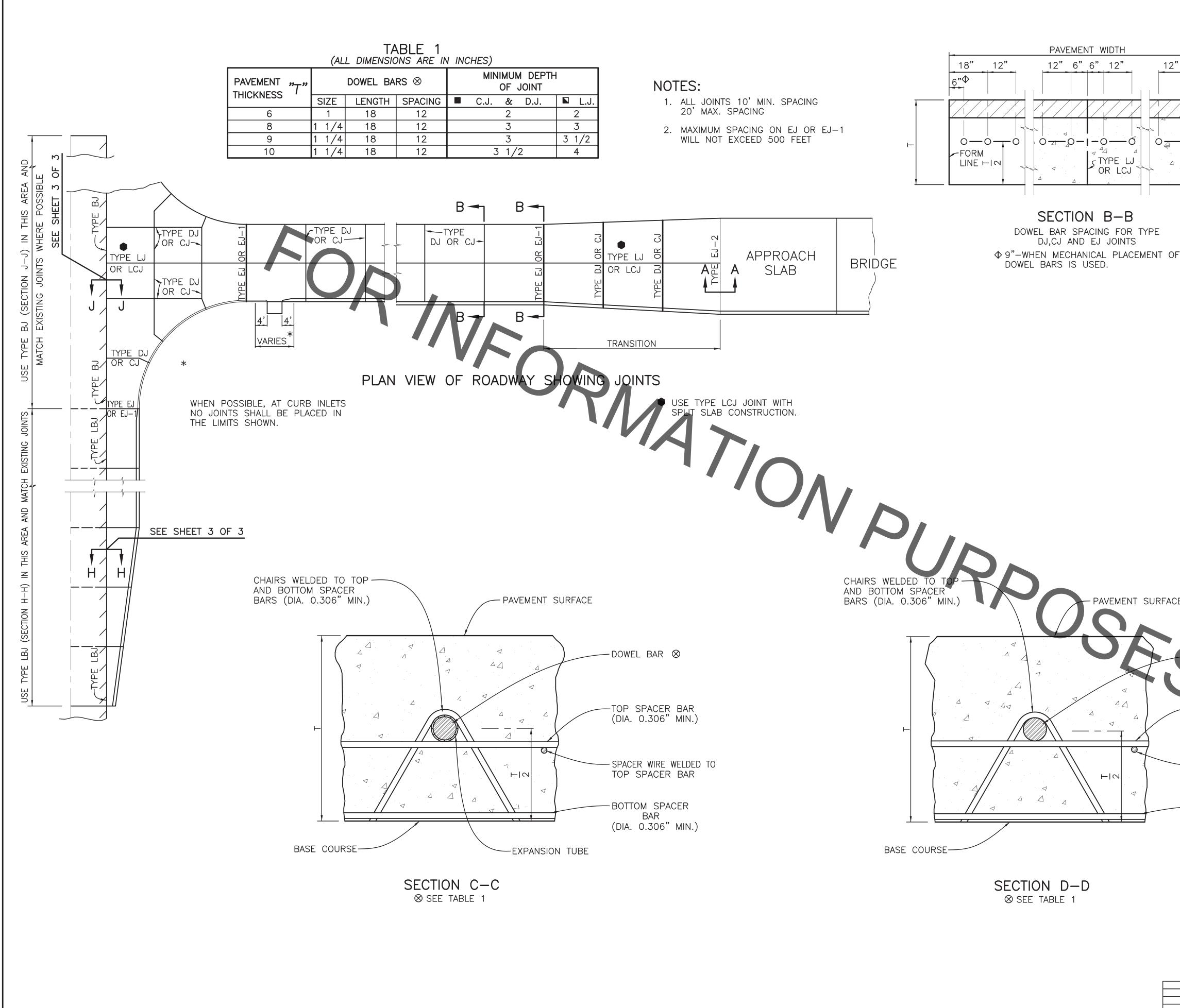




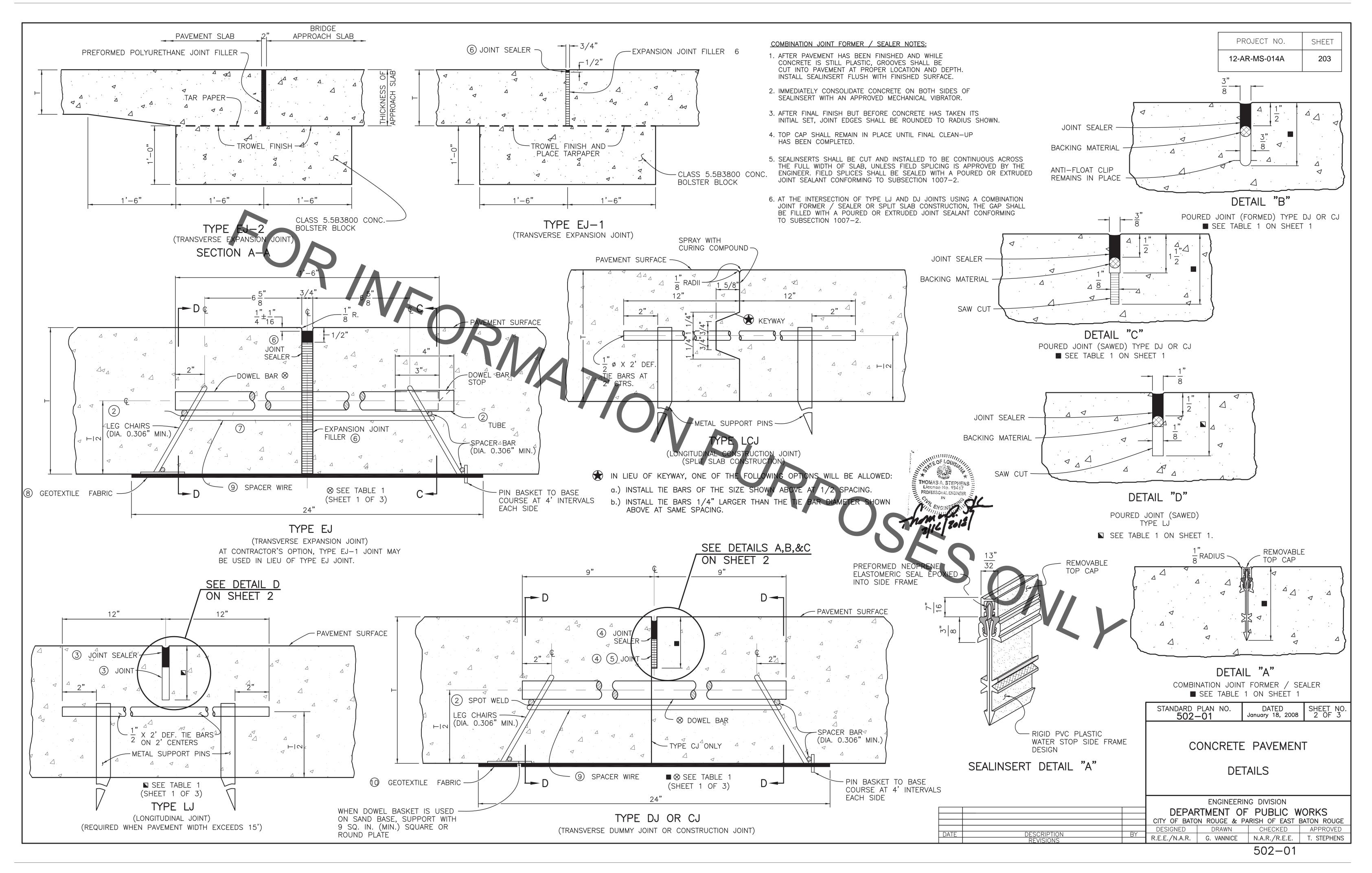


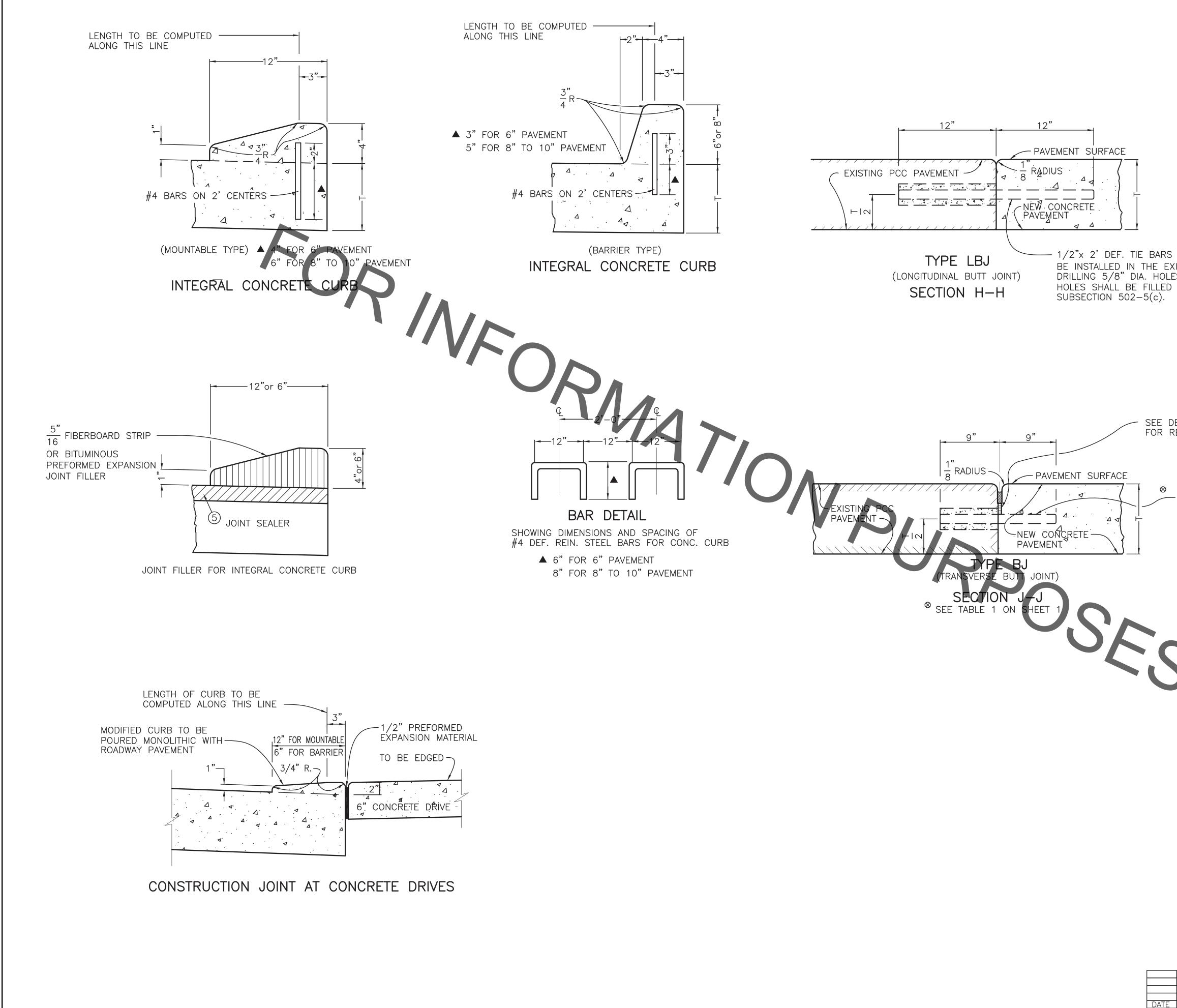


	Γ	PROJECT NO.	SHEET
B		12-AR-MS-014A	201
	L		RETE CURB
FACE OF CURB			
			7
OVERLAY IN DEPTH			
XIST. PAVEMENT	PLAN	VIEW	ELEVATION
SECTION B-B	2'	OF SURF	ACE
GRATE ELEVATION OF ADJUSTED IN			
OF ADJUSTED IN			
SIDE INLET	SECTIC	DN C-C	
'4" LENGTH AS REQ'D.	1/2"		AUL
REQ'D. ASPHALT CONCRETE OVERLAY			
GRATE OF AD	ELEVATION JUSTED INLET		
EXISTING CONCRETE PAVEMENT TO REMAIN	SECTIO	N D-D	
INTE OF LOUIS			
GRATE SEAT 1/2"x1/4") THOMAS A. STEPHENS	(SHOWING TRANSITION	SUMP DETAIL IN SURFACE ELEVATI	ON)
PROFESSIONAL ENGINEER			
ANIZED.	20' SPAC	NNG	t
ED AT CORNERS.	ZU SFAC		Ц
D ON 2" ASPHALT CONCRETE	-		TRAVEL
NEL REPLACEMENT IS REQUIRED		2'	
N ASPHALT OVERLAY THICKNESS.	– 4" STRIPE (TYP.)	(TYP	(<u>†</u> TRAVEL LANE
IENT DETAIL NOTE:			
1. TEMP	ORARY PAVEMENT MAR	KINGS REQUIRED IN A	ALL
	LAY AREAS.		- A 11
PALL WITH ASPHALT CONCRETE IEMPOR	ARY PAVEMENT	MARKING DEI	AIL
	standard plan no 501–01	. DATED AUGUST 6, 2008	SHEET NO. B 1 OF 1
EXIST. CONCRETE PAV'T.	ASPHALT C	ONCRETE OVE	RLAY
TO REMAIN COAT AND ASPHALT CONCRETE REQUIRED	P.C. CON	OF CRETE PAVEME	ENT
THE UNIT PRICE BID FOR THE ASPHALT		NEERING DIVISION	
	CITY OF BATON ROUGE	TOF PUBLIC WO	
DESCRIPTION BY REVISIONS	DESIGNED DRAW R.K. BANKS G. VAN		APPROVED T. STEPHENS
		501-01	



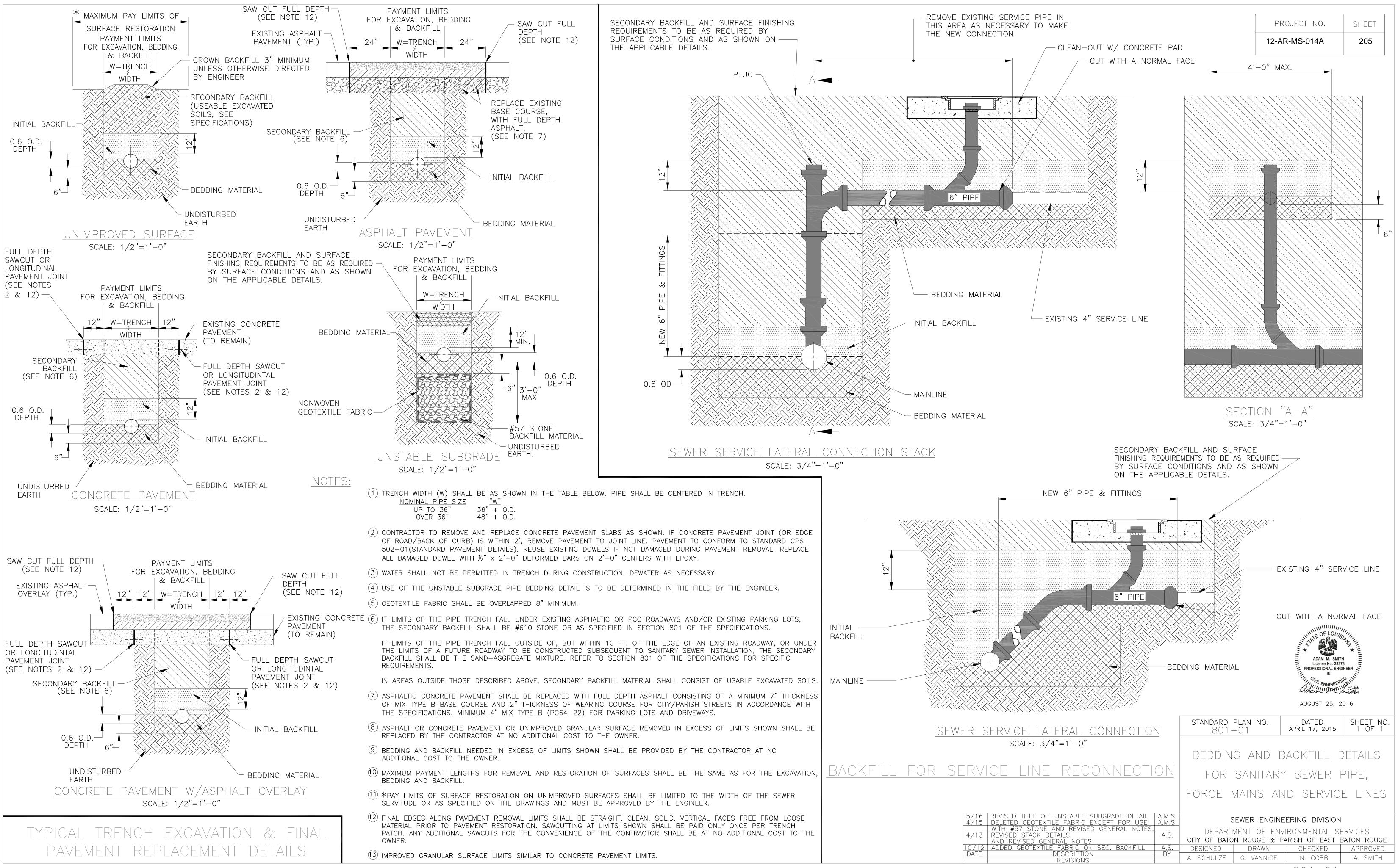
			PROJECT NO.	SHEET
			12-AR-MS-014A	202
18"				
\$ <u>6</u> "				
JOINT SEALER		OTEO		
	GENERAL N		<i>.</i>	
	OUTSIDE PAVEMEN	F EDGES SHALL BE	ROUNDED 1/4".	
(2)	PLACED ON ALTER	NATE ENDS OF EACH	S AND STOPS SHALL B I DOWEL BARS. BARS S S TO DOWEL BASKETS.	
3	DETAIL "D" ON SH THEY SHALL BE C	EET 2 TO THE DEPT	3" WIDE AS SHOWN IN TH SHOWN IN TABLE 1. WITH A JOINT SEALER	
4	TABLE 1. IF SAWE 1/8" BLADE. OTHE "B" AND "C" ON S AND CLEANED PRIC	D, THEY SHALL HAVE RWISE, JOINTS SHAL		; A S
5	TYPE DJ JOINTS M SEALER AS SHOWN SUBSECTION 1007	I IN DETAIL "A" ON	BINATION JOINT FORMER SHEET 2 CONFORMING	R/ TO
6	WOOD FILLER, EXC JOINT SEALER CON	EPT FOR THE TOP	JLL DEPTH, USING A 1/2" WHICH SHALL BE CTION 1007–2. THE BSECTION 1007–1(b).	A
7	PLACEMENT OF DC PERMITTED. DOWEL	BASKET, APPROVED WEL BARS AND TIE BASKETS SHALL BE APPROVED EQUALS.	BARS WILL BE	
8	JOINTS WHEN CON TREATED BASE CO	URSE WHEN DOWEL XTILE FABRIC SHALL	I, DJ AND EJ TYPE N UNSTABILIZED OR UN BARS ARE VIBRATED IN BE ANCHORED TO BAS	
9	TRANSVERSE EXPA CONSTRUCTION JO		. NOT BE USED FOR	
10		IOT BE PLACED WITH	IIN 18" OF CONTRACTIC	N
11	BE PLACED AT MA	XIMUM 500-FOOT IN	EJ OR EJ-1) SHALL ITERVALS IN ADDITION OTHER CONCRETE PAV	/EMENTS.
DOWEL BAR ⊗			INTE OF LOUIS	
—TOP SPACER BAR (DIA. 0.306" MIN.)			THOMAS A. STEPHENS E Liconse No. 19417 PROFESSIONAL ENGINEER IN	_
		-	nm [2018] 2/16 [2018]	
— BOTTOM SPACER BAR (DIA. 0.306" MIN.)				
		STANDARD PLAN 502–01	NO. DATED January 18, 2008	SHEET NO 1 OF 3
		CONC	RETE PAVEMEN	١T
			DETAILS	
			GINEERING DIVISION	
DESCRIPTION	BY	CITY OF BATON ROL DESIGNED DF	IGE & PARISH OF EASTRAWNCHECKED	BATON ROUGE
REVISIONS		R.E.E./N.A.R. G. V	ANNICE N.A.R./R.E.E. 502-01	T. STEPHENS

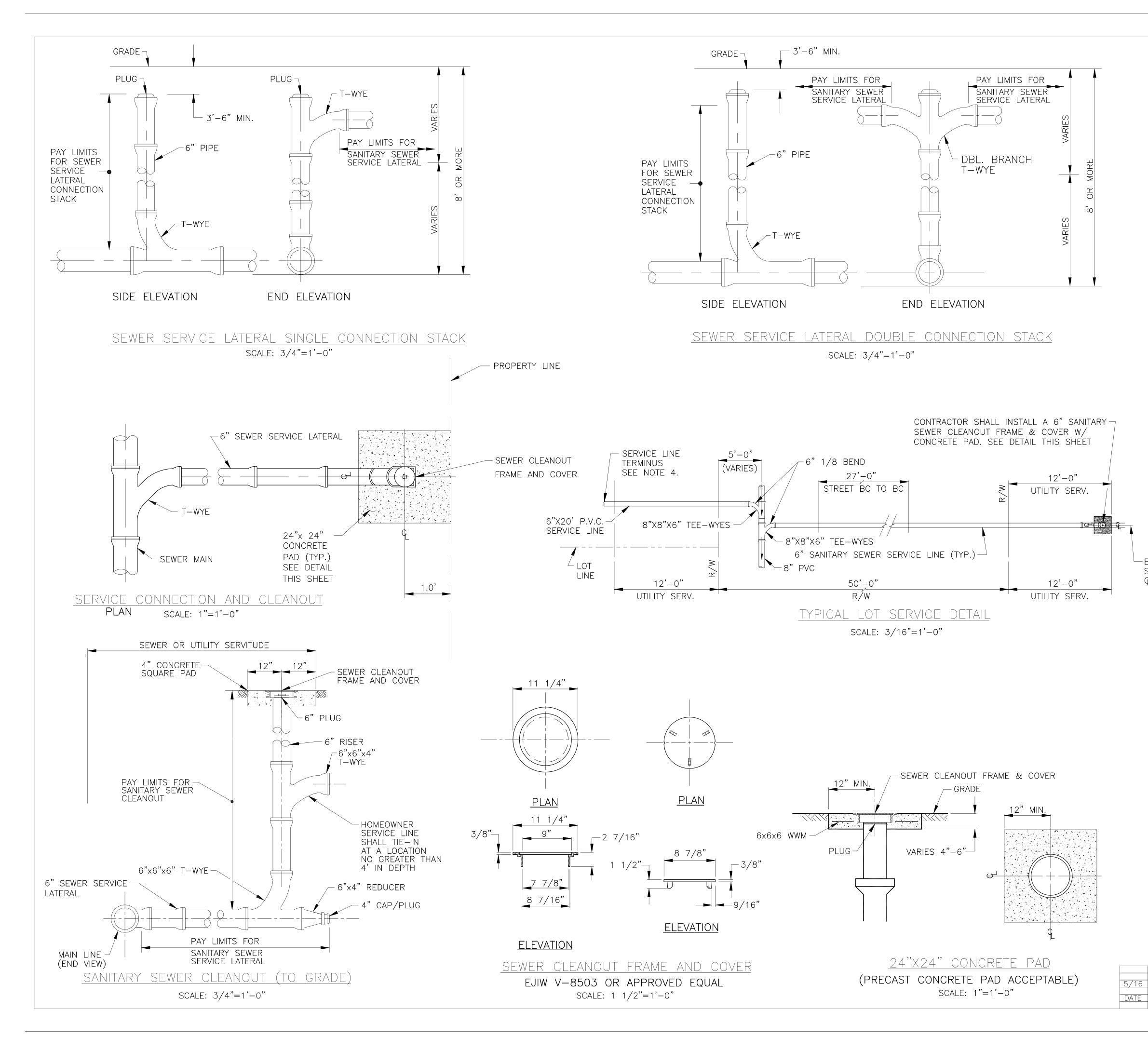


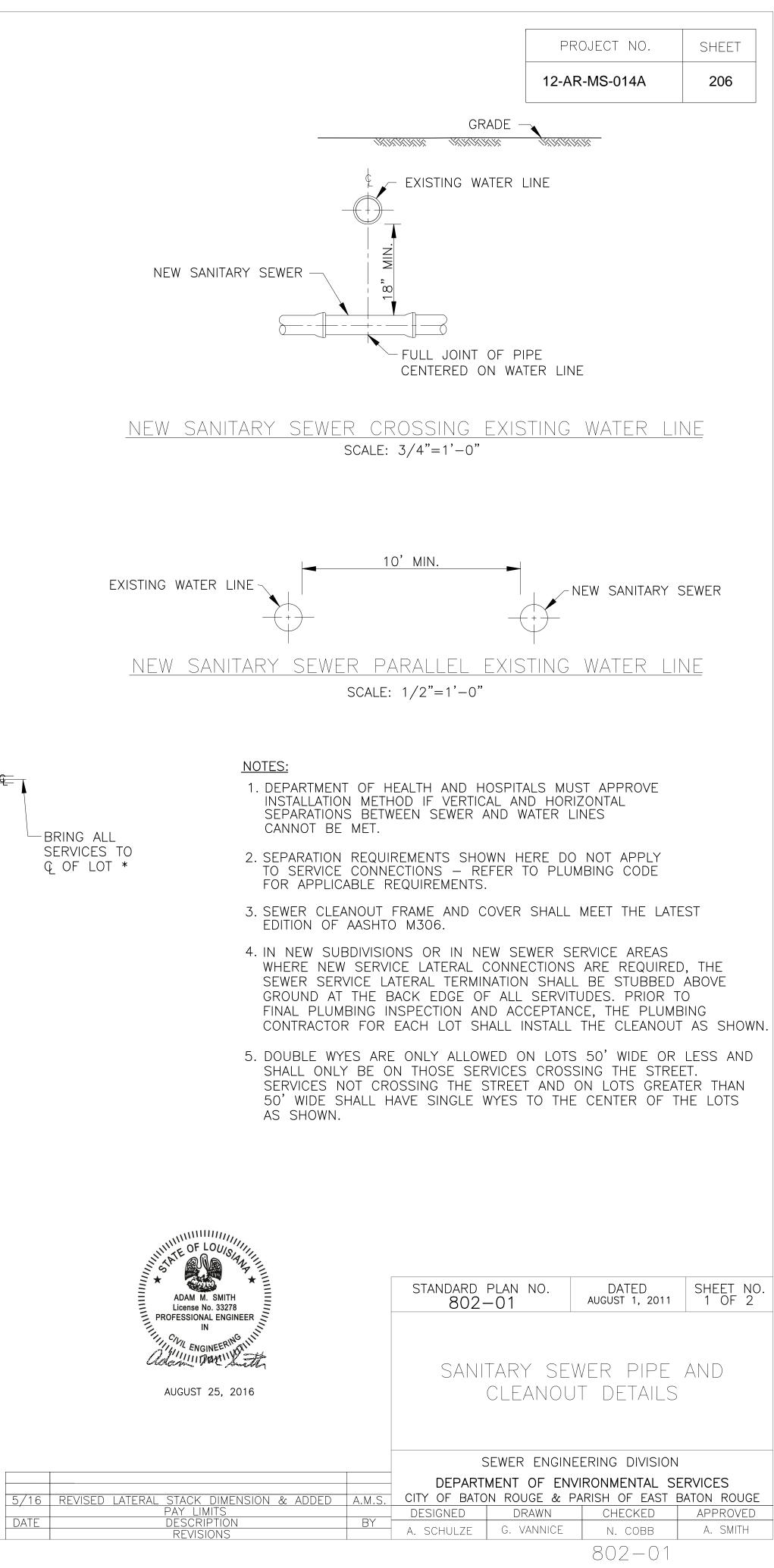


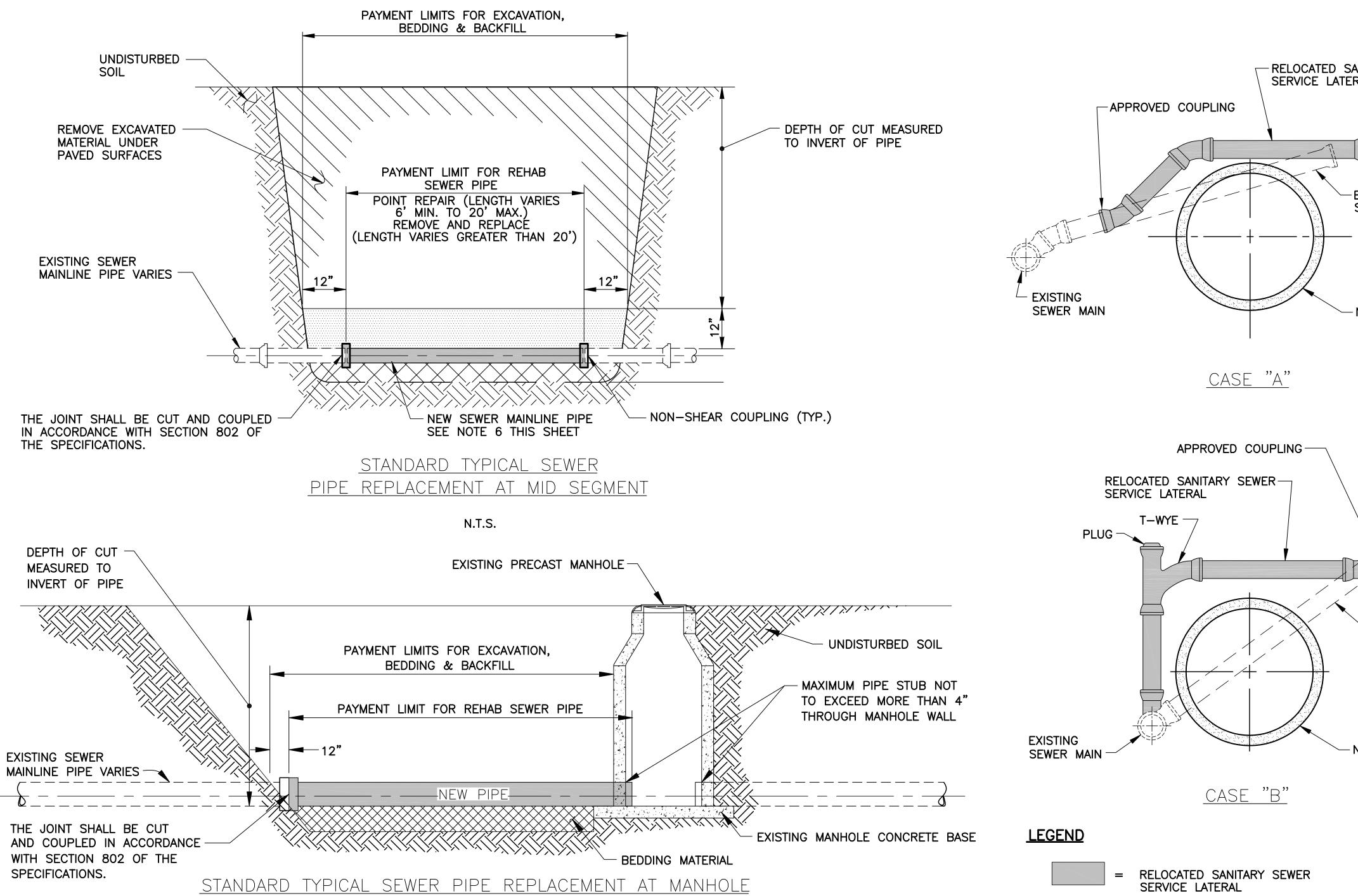
DA

			PROJECT NO.	SHEET 204
ON 2' CENTERS SHALL ISTING PAVEMENT BY				
IN ACCORDANCE WITH				
ETAILS A,B, & C ON SHEET 2 EQUIRED JOINT SEAL DETAIL.				
- DOWEL BARS OF THE SIZE, LENGTH	AND SPAC	ING		
SPECIFIED IN TABLE 1 (SHEET 1 OF IN EXISTING PAVEMENT BY DRILLING THAN THE BAR DIAMETER TO A DEPT	3) SHALL HOLES 1/	BE PLACED 8" LARGER		
BAR LENGTH AND FILLING HOLES IN WITH SUBSECTION 502-5(g).	ACCORDAN	ICE		
		- Tuge 	MILLING OF LOW	
			HOMAS A. STEPHENS	
			HOMAS A. STEPHENS E Liconse No. 19417 PROFESSIONAL ENGINEER	
		h	ANGINE AND	
			2/10/ •••••	
		STANDARD PLAN 502-01	I NO. DATED January 18, 200	SHEET NO 3 OF 3
		CON	CRETE PAVEME	NT
			DETAILS	
		DEPARTM	NGINEERING DIVISION ENT OF PUBLIC DUGE & PARISH OF EAST	
DESCRIPTION REVISIONS	BY	DESIGNED [DUGE& PARISHOFEASTDRAWNCHECKEDVANNICEN.A.R./R.E.E.	APPROVED
	I	· · · ·	502-01	



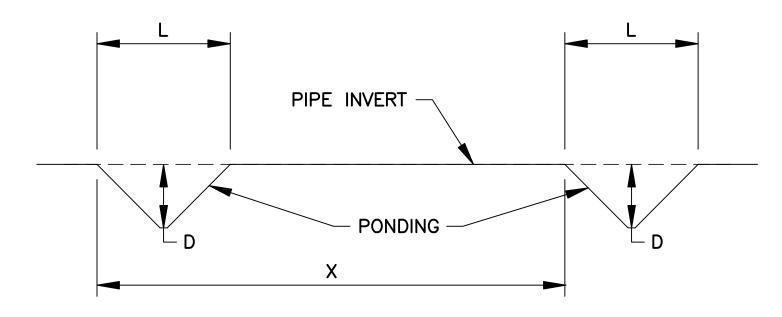






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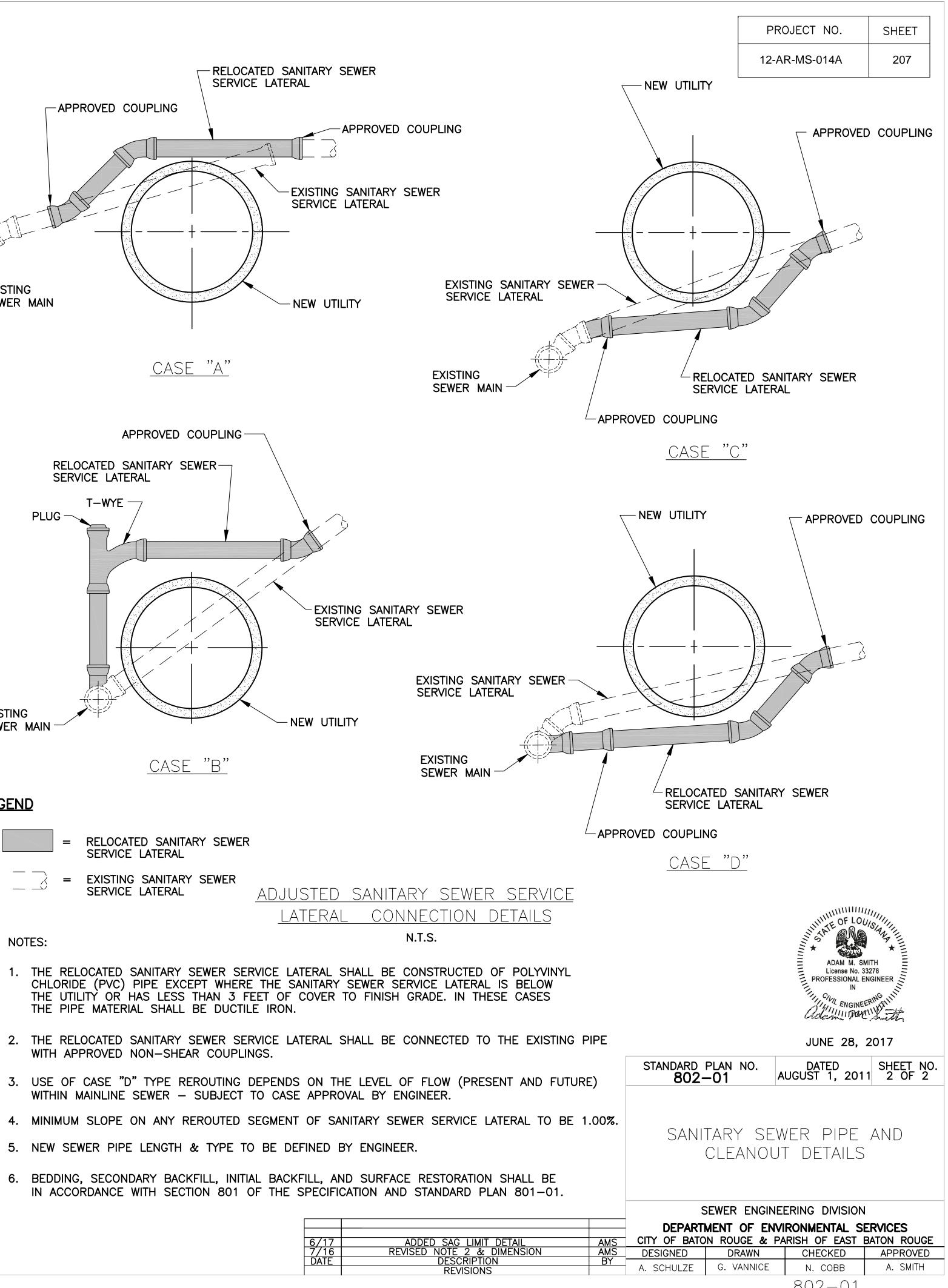
*D = MAX. ALLOWABLE SAG DEPTH =ALLOWABLE DEPTH OF POOLED WATER AS MEASURED FROM WATER SURFACE TO INVERT OF PIPE BY USE OF SAG GAUGE. **L = SAG LENGTH = LENGTH OF POOLED WATER SURFACE AS MEASURED FROM UPSTREAM EDGE OF POOLED WATER SURFACE TO DOWNSTREAM EDGE OF POOLED WATER SURFACE. ***X = DISTANCE BETWEEN SAGS, AS MEASURED FROM UPSTREAM EDGE OF POOLED WATER SURFACES BETWEEN CONSECUTIVES SAGS.

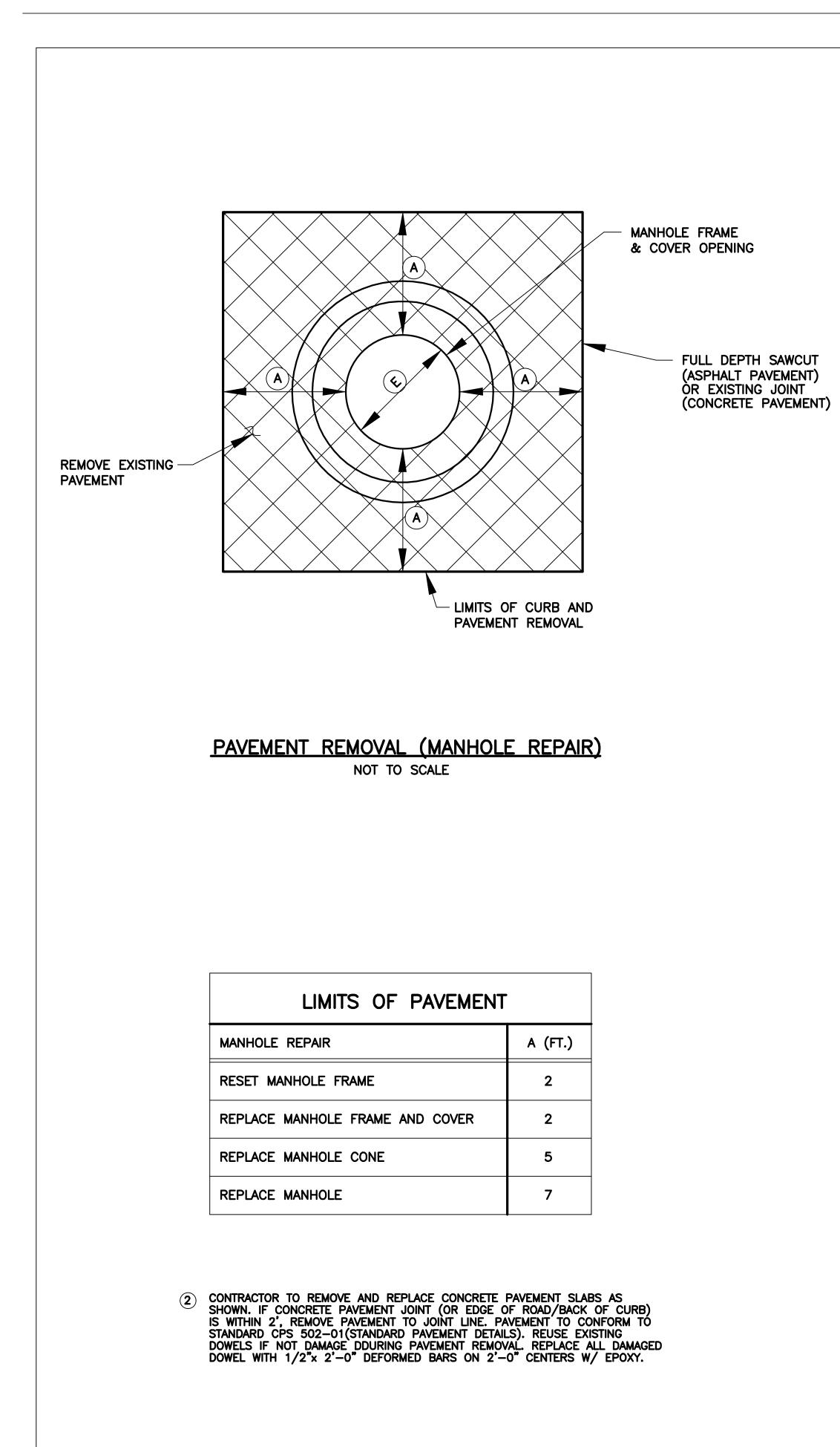


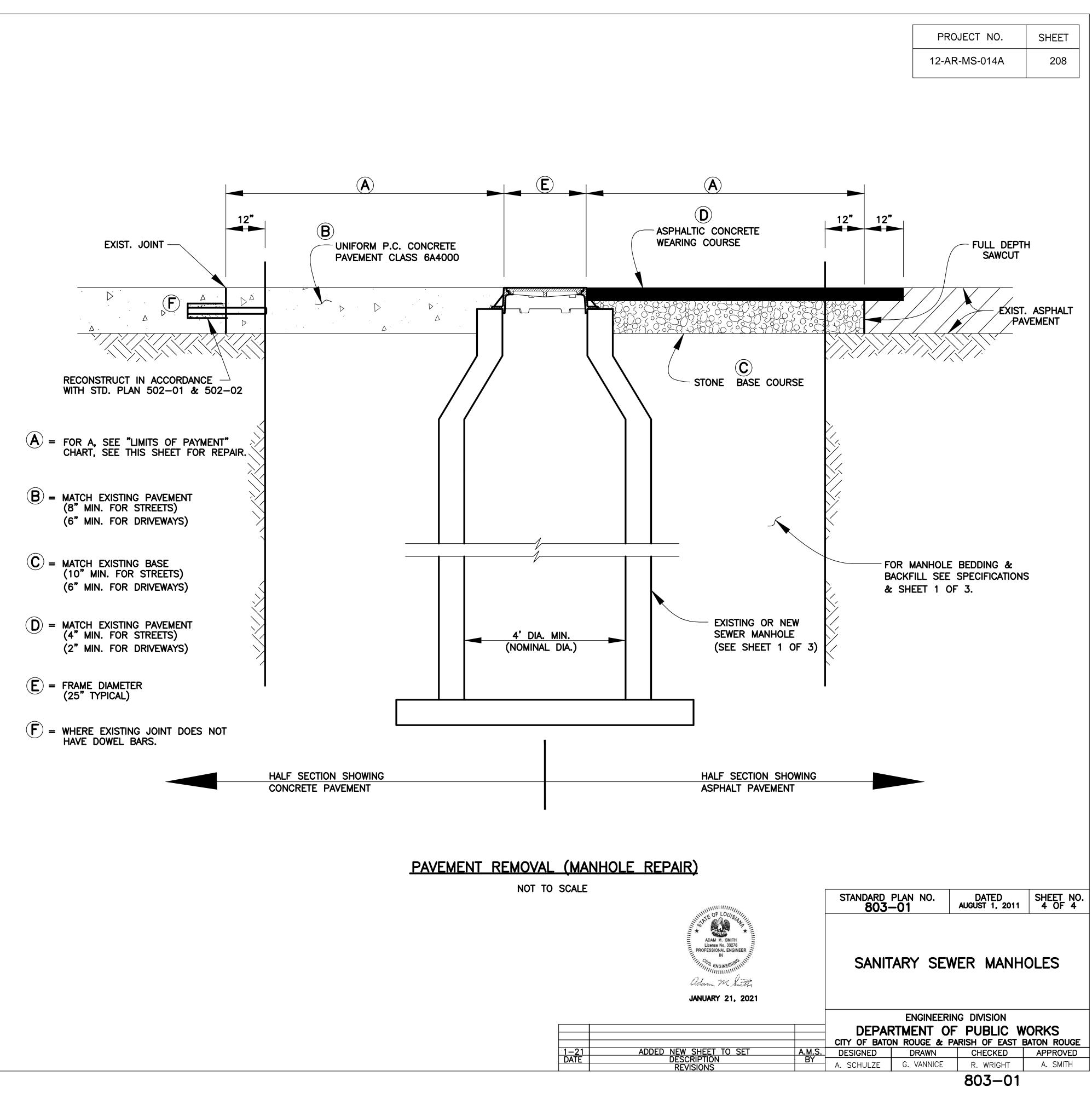
NOMINAL PIPE DIA. (INCHES)	MINIMUM GRADE (%)	MAX. ALLOWABLE SAG DEPTH (D)* IN INCHES OF WATER EQUAL OR LESS THAN MINIMUM GRADE	MAXIMUM SAG LENGTH (L)**	MIN. ALLOWABLE DIST. BETWEEN SAGS W/ 10% OR GREATER DEPTH (X)***
8	0.400	0.8"	6 FT	36 FT
10	0.280	1"	6 FT	36 FT
12	0.220	1.1"	9 FT	54 FT
15	0.150	1.5"	9 FT	54 FT
16	0.140	1.5"	9 FT	54 FT
18	0.120	1.5"	9 FT	72 FT
21	0.100	1.5"	9 FT	72 FT
24	0.080	1.5"	9 FT	72 FT
27	0.067	2"	9 FT	72 FT
30	0.058	2"	9 FT	72 FT
36	0.046	2"	9 FT	72 FT
42	0.037	2"	9 FT	72 FT

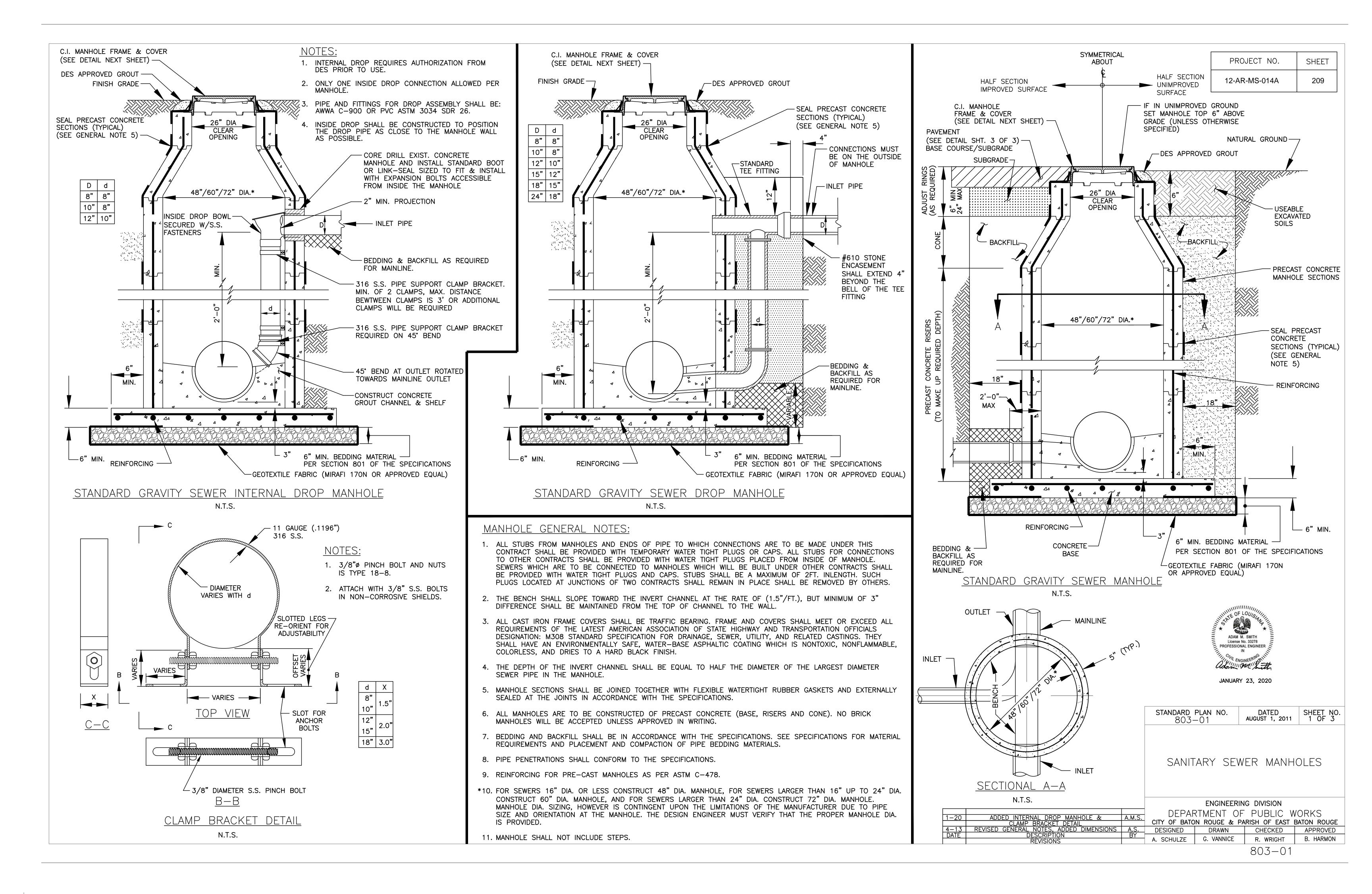
SANITARY SEWER GRADE TOLERANCE/ ACCEPTABLE SAG LIMITS

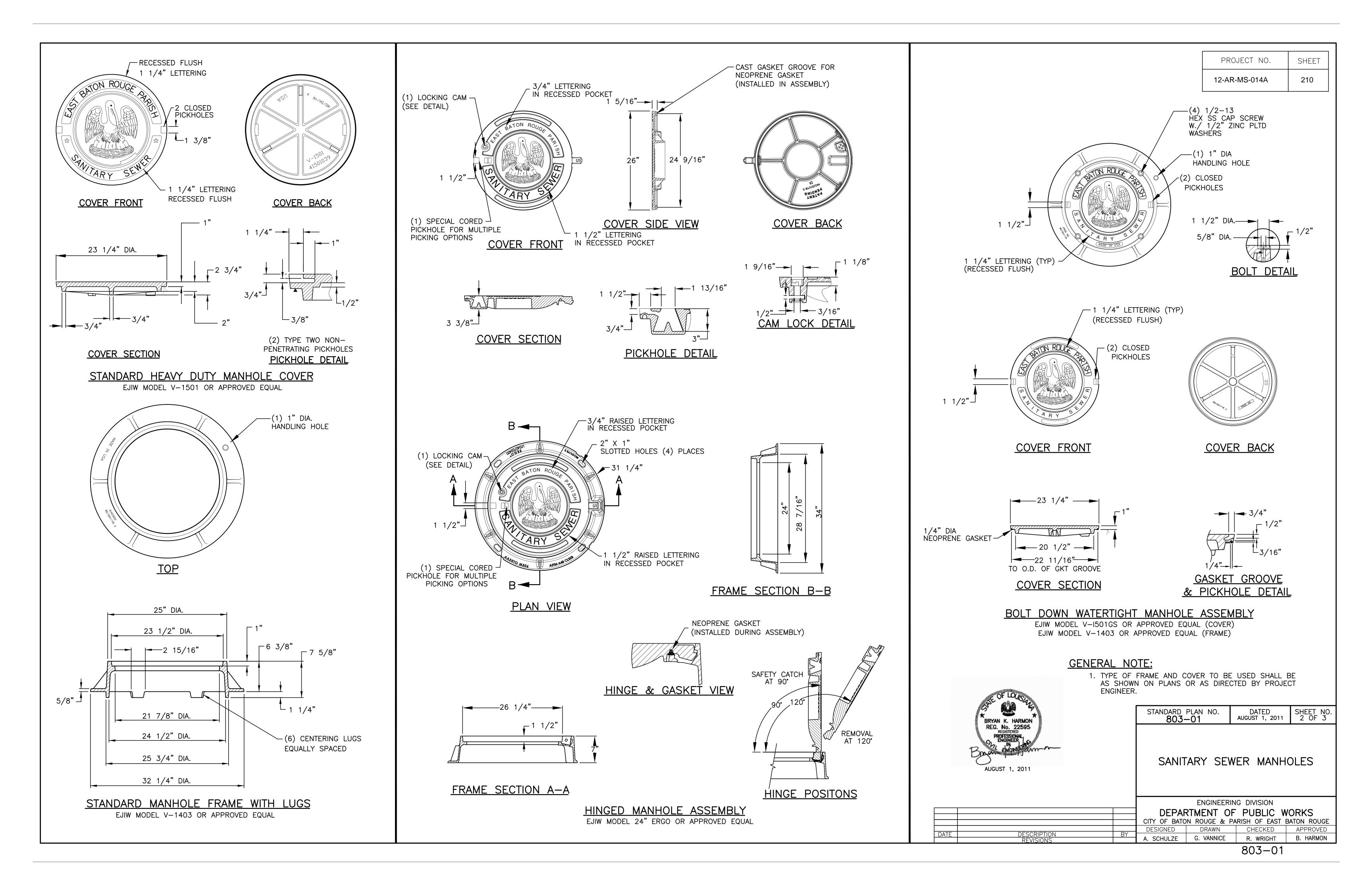
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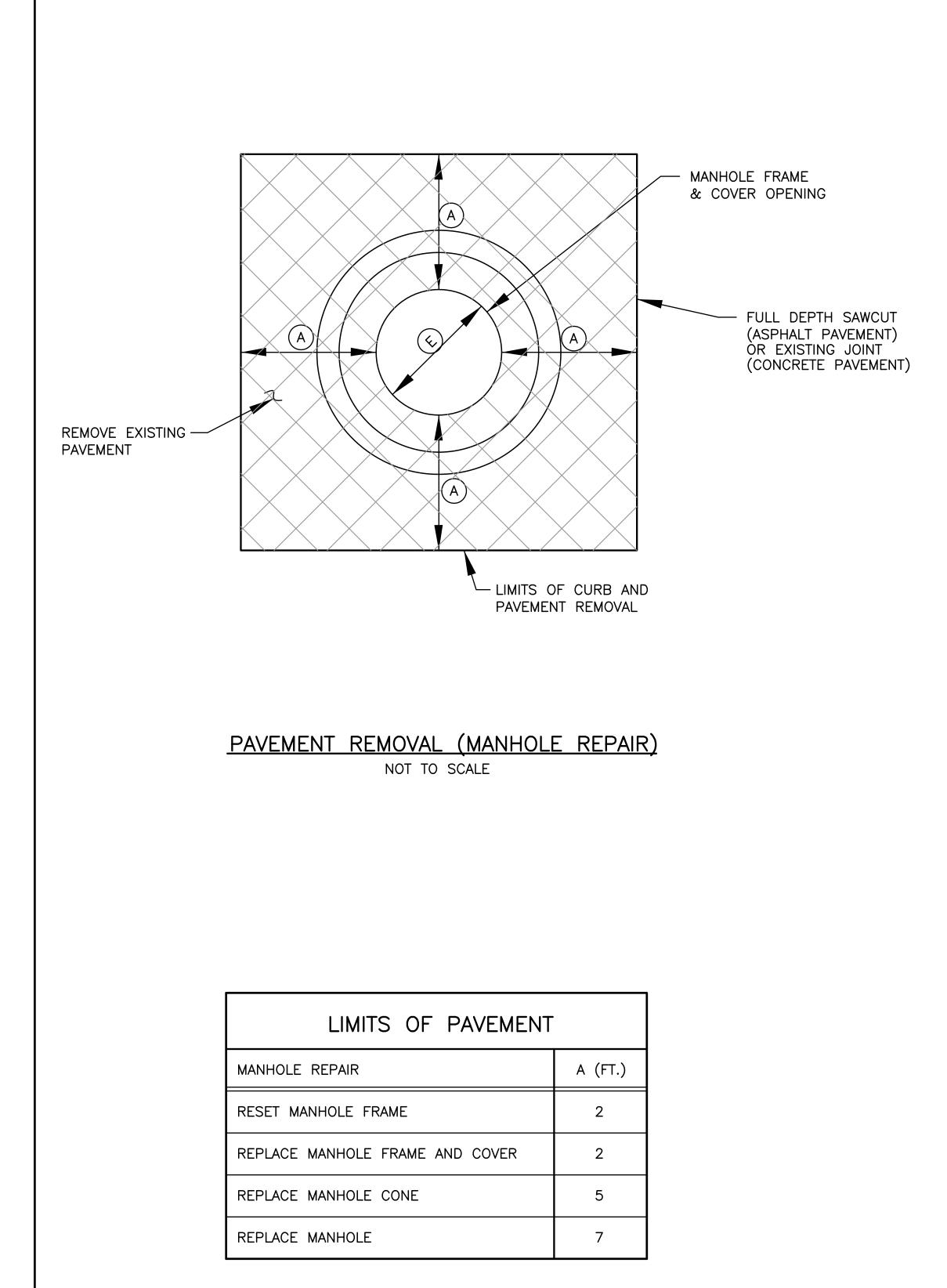




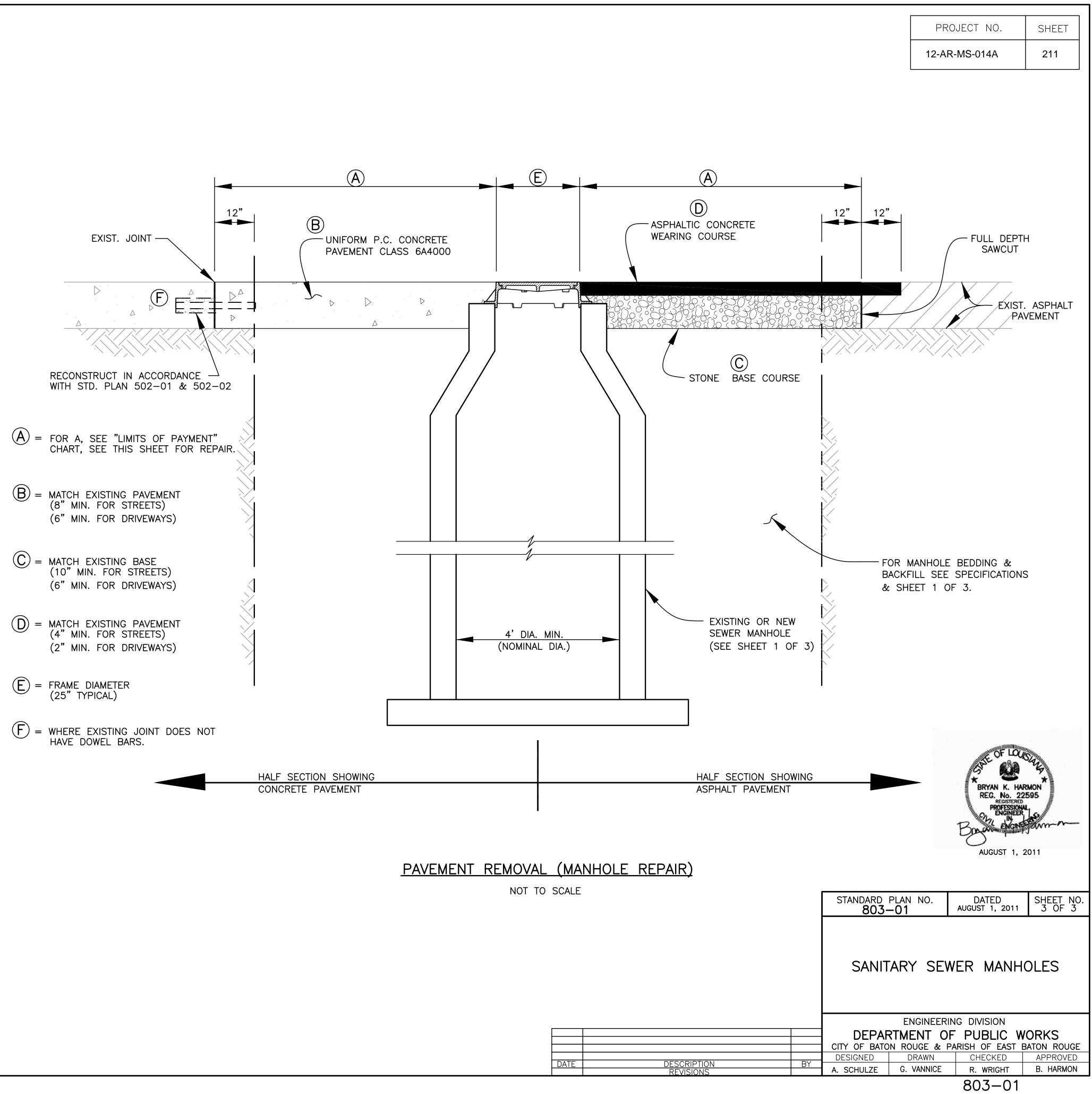




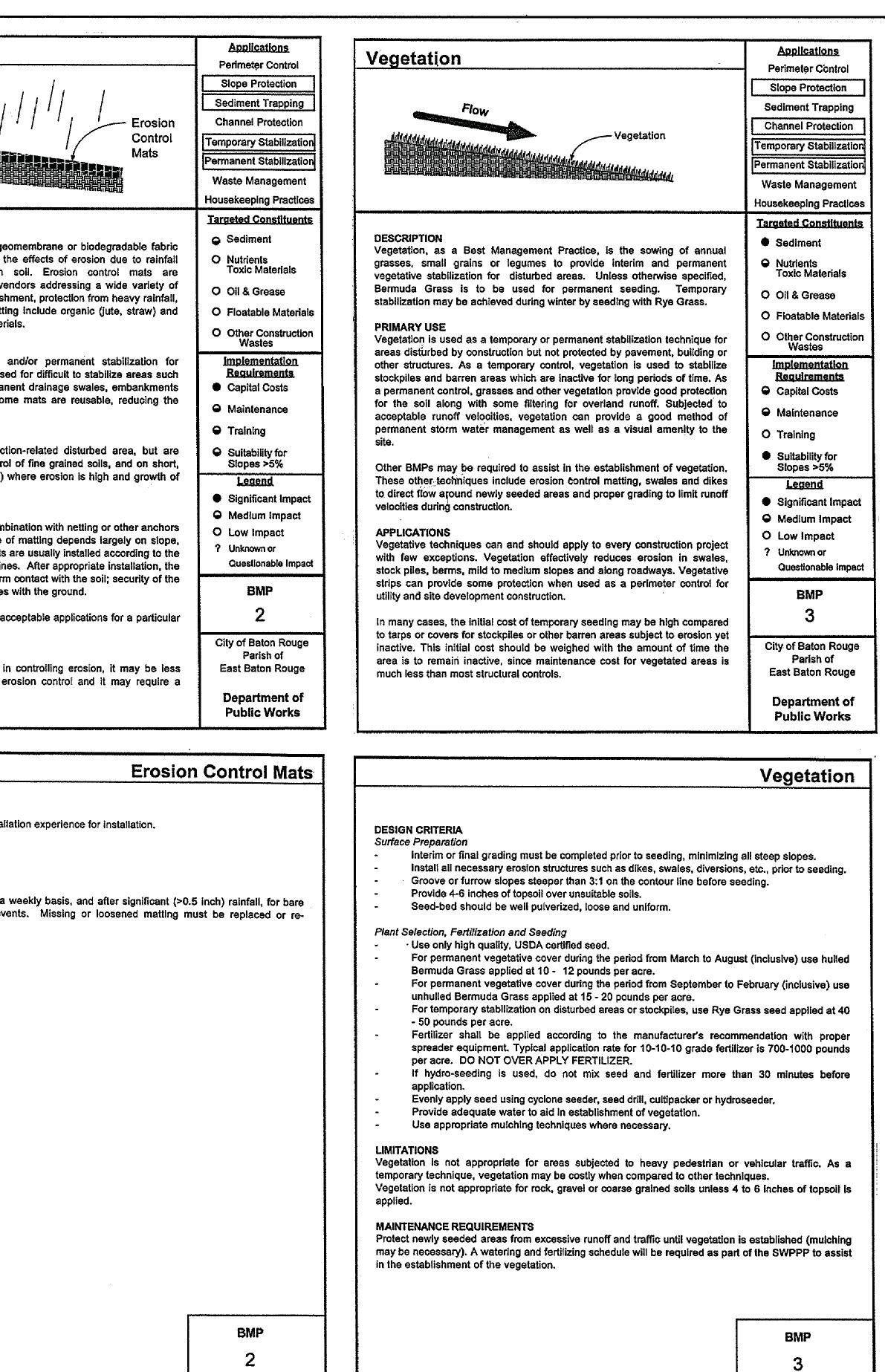


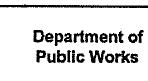


) CONTRACTOR TO REMOVE AND REPLACE CONCRETE PAVEMENT SLABS AS SHOWN. IF CONCRETE PAVEMENT JOINT (OR EDGE OF ROAD/BACK OF CURB) IS WITHIN 2', REMOVE PAVEMENT TO JOINT LINE. PAVEMENT TO CONFORM TO STANDARD CPS 502-01(STANDARD PAVEMENT DETAILS). REUSE EXISTING 2 DOWELS IF NOT DAMAGE DDURING PAVEMENT REMOVAL. REPLACE ALL DAMAGED DOWEL WITH 1/2"x 2'-0" DEFORMED BARS ON 2'-0" CENTERS W/ EPOXY.



Mulching	Applications	Erosion Control M
	Perimeter Control	
	Slope Protection	
	Sediment Trapping	
Mulching	Channel Protection	
	Temporary Stabilization	習些語言語 Disturbed Sc
Englisher Disturbed Soil Participation of the second	Permanent Stabilization Waste Management	
	Housekeeping Practices	
	Targeted Constituents	DESCRIPTION An erosion control mat (ECM)
DESCRIPTION Mulching is the application of a layer of chopped straw, hay or other	Sediment	placed over disturbed areas to
material which is spread uniformly over barren areas to reduce the effects	O Nutrients	impact and runoff across manufactured by a wide varied
of erosion from rainfall. Types of mulch include organic materials, straw, wood chips, bark or other fibers. Mulch also comes in prepackaged forms,	Toxic Materials	conditions such as vegetation e
using straw, hay or other material with organic and inorganic binding	O Oil & Grease	and high velocity flow. Types of synthetic (plastic and glass fiber
systems.	O Floatable Materials	PRIMARY USE
PRIMARY USE Mulch is used to temporarily and/or permanently stabilize clear or freshly	O Other Construction Wastes	Mats can provide both temp disturbed soil or barren areas.
seeded areas. It protects the soil from erosion and moisture loss by lessening the effects of wind, water, and sunlight. It also decreases the	implementation Regularization	as steep slopes, temporary or
velocity of sheet flow, thereby reducing the volume of sediment-laden	Requirements	or high traffic (pedestrian) are initial cost of the installation.
water flow leaving the mulched area.	Maintenance	
APPLICATIONS Multich may be used on any construction related disturbed erec for surface	O Training	APPLICATIONS Mats can be used on any co
Mulch may be used on any construction-related disturbed area for surface protection including:	O Suitability for	particularly effective for erosion steep slopes (such as stream
 Freshly seeded or planted areas, Areas at risk due to the time period being unsuitable for 	Slopes >5%	vegetation is slow.
growing vegetation,	Legend Significant Impact	DESIGN CRITERIA
 Areas that are not conducive to seeding or planting. 	 Significant Impact Medium Impact 	A mat may be used by itself or to promote soil stabilization.
DESIGN CRITERIA Mulch may be used by itself or in combination with netting or other anchors	O Low impact	climate, soil type, and durability
to promote soil stabilization.	? Unknown or	manufacturer's recommended g matting should be checked for:
Several manufacturers provide an organic mulch with an attached netting	Questionable Impact	lap joints; and flushness of the
to simplify installation. Installation should adhere to manufacturer's	BMP	Manufacturers information will
specifications and requirements.	1	product.
 Choice of mulch depends largely on slope, climate, and soil type in addition to availability of different materials. Straw and hay are the 	City of Baton Rouge	LIMITATIONS Although matting is highly effe
 recommended choices due to their availability and biodegradability. Mulch should be applied in an even and uniform manner where concentrated water flow is negligible. 	Parish of East Baton Rouge	cost-effective than other BMP
	Department of	
	Public Works	
	Mulching	contractor with considerable ma
 Application of straw or hay mulch should be approximately 2 to: 	<u>_</u>	contractor with considerable ma
uniformly across the disturbed area. Other material should be appli	as dry per acre spread	
 uniformly across the disturbed area. Other material should be applied soil is visible through the mulch. For areas using straw mulch and the slope is greater than 3-5%, and 	ns dry per acre spread ed such that 25% of the	MAINTENANCE REQUIREMEN
uniformly across the disturbed area. Other material should be appli soil is visible through the mulch.	ns dry per acre spread ed such that 25% of the	MAINTENANCE REQUIREMEN Matted areas must be inspecte spots caused by weather rela
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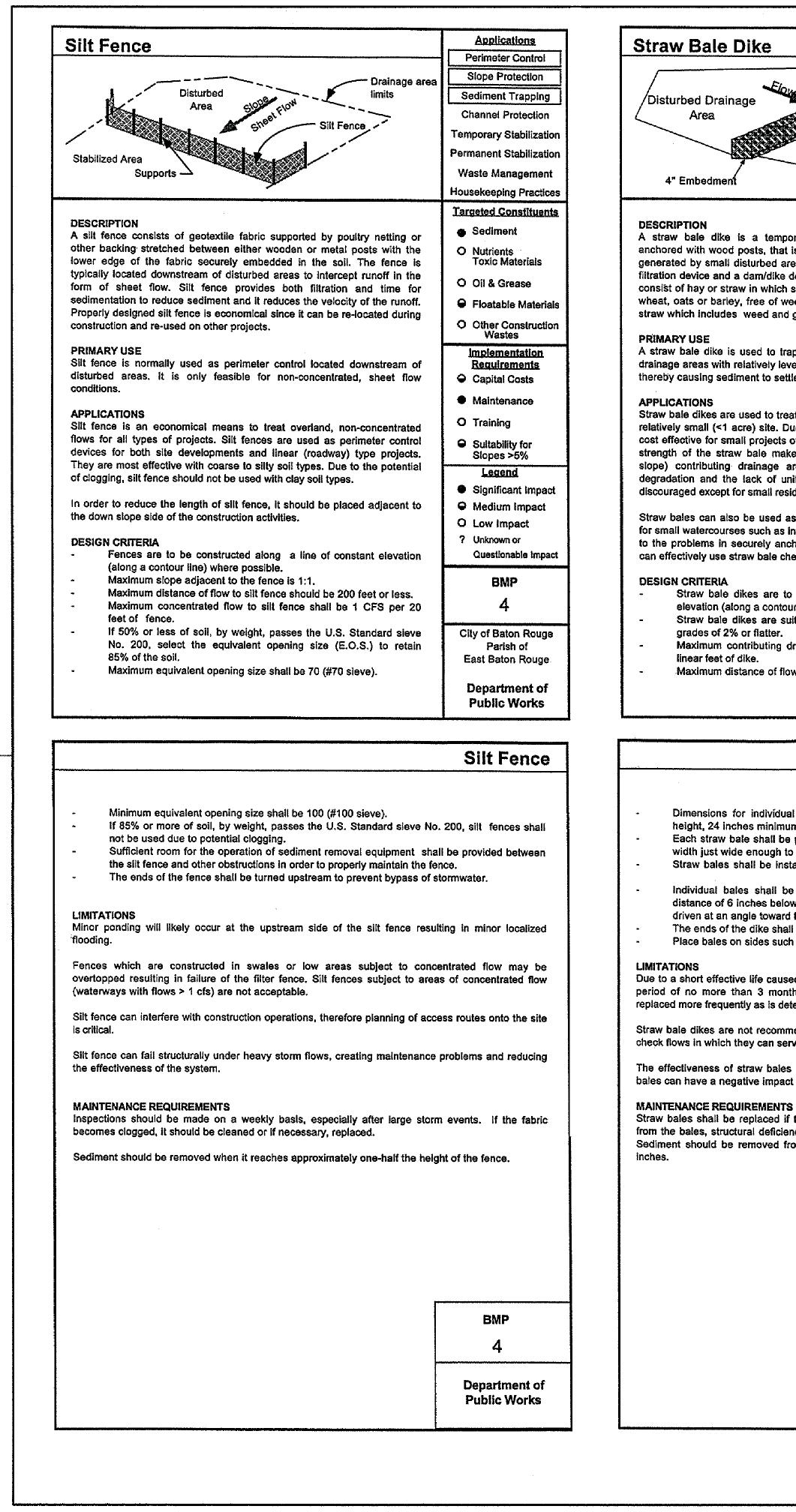




Department of Public Works

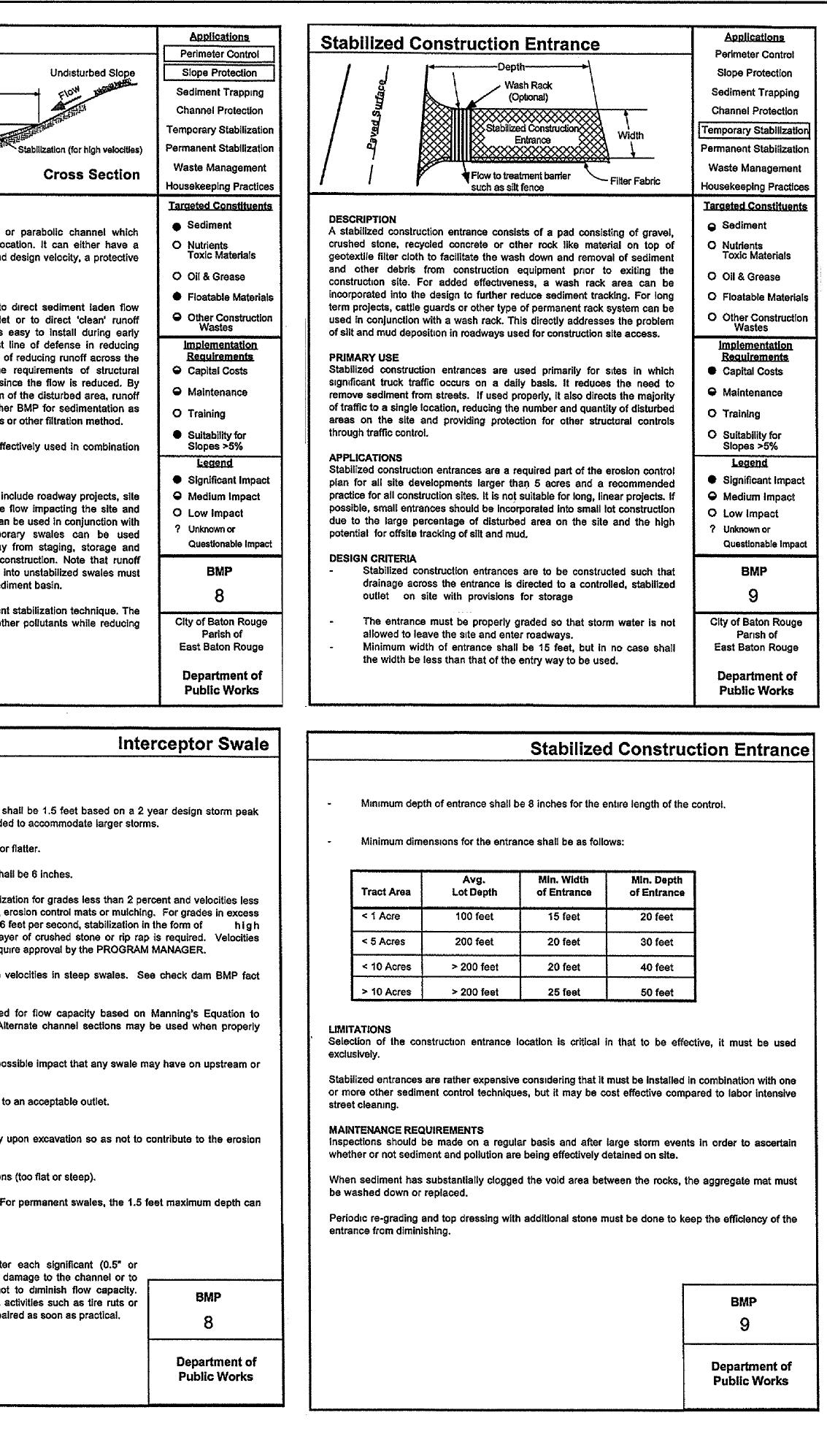
PROJECT NO.	SHEET
12-AR-MS-014A	212

			THOMAS A. STEPHENS License No. 19417 PROFESSIONAL ENGINEER IN STANDARD PLAN NO. 903-01 DATED SHEET NO. 1 OF 11
			STORM WATER POLLUTION PREVENTION PLAN BEST MANAGEMENT PRACTICES ENGINEERING DIVISION
DATE	DESCRIPTION REVISIONS	<u>B</u> Y	DEPARTMENT OF PUBLIC WORKS CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE DESIGNED DRAWN CHECKED APPROVED G. CHENG G. VANNICE G. CHENG T. STEPHENS 903-01



	Applications		Applications			PROJECT NO.	SHEE
	Perimeter Control	Triangular Sediment Filter Dike	Perimeter Control				
	Slope Protection	4"x4" or	Slope Protection			12-AR-MS-014A	21
	Sediment Trapping	6" x 6" welded Varies	Sediment Trapping				
	Channel Protection		Channel Protection				
	Temporary Stabilization		Temporary Stabilization				
Stabilized Area	Permanent Stabilization	Fabric not	Permanent Stabilization				
	Waste Management	shown for clarity	Waste Management				
	Housekeeping Practices	Anchors @ 4'	Housekeeping Practices				
	Targeted Constituents		Targeted Constituents				
		DESCRIPTION					
ry barrier constructed of straw bales	Sediment	A Triangular Sediment Filter Dike is a self contained silt fence consisting of	Sediment				
used to intercept sediment-laden runoff s. The straw bales can serve as both a	O Nutrients Toxic Materials	filter fabric wrapped around welded wire fabric shaped into a triangular cross section. While similar in use to a silt fence, the dike is reusable,	O Nutrients Toxic Materials				
vice to treat and redirect flow. Bales can	O Oil & Grease	sturdier, transportable and can be used on paved areas or in situations	O Oil & Grease				
aw is defined as best quality straw from I and grass seed and hay is defined as	 Floatable Materials 	where it is impractical to install embedded posts for support.	 Floatable Materials 				
ass seed.		PRIMARY USE					
	O Other Construction Wastes	Triangular filter dikes are used in place of silt fence, treating sediment flow at the perimeter of construction areas and at the perimeter of the site.	O Other Construction Wastes				
sediment-laden storm runoff from small	Implementation	Also, the dikes can serve as stream protection devices by preventing	implementation				
grades, allowing for reduction of velocity	Requirements	sediment from entering the streams or as check dams in small swales.	<u>Requirements</u>				
out.	Capital Costs	Triangular sediment filter dikes are especially useful for construction areas	Capital Costs				
	Maintenance	surrounded by pavement, such as roadways, taxiways, ramps, etc., where	Maintenance				
low after it leaves a disturbed area on a to the limited life of the straw bale. It is	O Training	silt fence or hay bale installation is Since they can be anchored without penetration, pavement damage can be minimized.	O Training				
a short duration. The limited weight and	Sultability for		• Suitability for				
it suitable for small, flat (< 2 percent as. Due to the problems with straw	Slopes >5%	APPLICATIONS Triangular dikes are used to provide perimeter control by detaining	Slopes >5%				
m quality in straw bales, their use is	Legend	sediment on a disturbed site with drainage that would otherwise flow onto	Legend				
ntial applications.	Significant Impact	adjacent areas. Triangular dikes also serve as sediment trapping devices when used in areas of sheet flow across disturbed areas or are placed	Significant Impact Modium Impact				
heck dams (see Check Dam BMP S-7)	Medium Impact Low Impact	along stream banks to prevent sediment-laden sheet flow from entering	 Medium Impact Low Impact 				
rceptor swales and borrow ditches. Due	O Low Impact ? Unknown or	the stream. The dikes can be subjected to more concentrated flows and a	O Low Impact ? Unknown or				
ring the bales, only small watercourses	Questionable Impact	higher flowrate than silt fence.	Questionable Impact				
		DESIGN CRITERIA	· · · · · · · · · · · · · · · · · · ·				
e constructed along a line of constant	BMP	 Dikes are to be installed along a line of constant elevation (along a contour line). 	BMP				
ine).	5	- Maximum slope perpendicular to the dike is 1:1.	6				
ble only for treating sheet flows across	City of Baton Rouge	 Maximum drainage flow to the dike shall be 11 CFS per 100 linear feet of dike. 	City of Baton Rouge				
nage area shall be 0.25 acre per 100	City of Baton Rouge Parish of	 Maximum distance of flow to dike should be 200 feet or less. 	City of Baton Rouge Parish of				
	East Baton Rouge	- Maximum concentrated flow to dike shall be 1 CFS.	East Baton Rouge				
o dike should be 100 feet or less.	Department of		Department of				
	Department of Public Works		Public Works				
·····			· · · · · · · · · · · · · · · · · · ·				
Str	aw Bale Dike	Triangular Sedim	ent Filter Dike				
ales shall be 30 inches minimum length		- If 50% or less of soil, by weight, passes the U.S. Standard sier	ve No. 200, select the				
width and shall weigh no less than 50 poun aced into an excavated trench having a de		equivalent opening size (E.O.S.) to retain 85% of the soil. Maximum equivalent opening size shall be 70 (#70 sieve). 					
ccommodate the bales themselves.		- Minimum equivalent opening size shall be 100 (#100 sieve).					
ed in such a way that there is no space b	etween bales	- If 85% or more of soil, by weight, passes the U.S. Standard sid	eve No. 200, triangular				
ield in place by at least two wood stake	es driven a minimum	 sediment dike shall not be used due to clogging. Sufficient room for the operation of sediment removal equipment shall 	all be provided between				
he 4" excavated trench to undisturbed grou		the dike and other obstructions in order to properly remove sediment.					
e previously installed bale. e turned upgrade to prevent bypass of storr	nwator	 The ends of the dike shall be turned upgrade to prevent bypass of sto 	rmwater.				
at bindings are not buried.			a				
		Ponding will likely occur directly adjacent to the dike which may possibly cause	flooding.				
by biological decomposition, straw bales m		Triangular sediment filter dikes are not effective for conditions which include					
. During the wet and warm seasons, ho	wever, they must be	flows or when they are not constructed along a contour line due to concentration and overtopping.	the potential for flow				
nined by periodic inspections for structural in		concentration and ovallopping.					
ded for use with concentrated flows of any	r kind except for small	MAINTENANCE REQUIREMENTS				, Tage 1	
as a check dam.		Inspections should be made on a weekly basis, especially after large (> 0.5 the fabric becomes clogged, it should be cleaned or if necessary, replaced.	incries) storm events. If			INTE OF LOW	11,
reducing sediment is very limited. Improp	erly maintained, straw					III STATE	Sheller,
n the water quality of the runoff.		Sediment should be removed when it reaches approximately 6 inches inspections should be made on a regular basis to check the structural integrity				E THOMAS A STEDY	* =
		deficiencies are found, the dike should be immediately repaired or replaced.	an mina annan in astructustat			THOMAS A. STEPH License No. 194 PROFESSIONAL ENGIN	17 =
ere are signs of degradation such as strates as due to rotting straw in the bale or other	v located downstream	As with silt fence, integrity of the filter fabric is important to the effectiven	ass of the dike Overlag			IN IN IN IN	ুনা
behind the bales when it reaches a dep		between dike sections must be checked on a regular basis and repaired if def				Will ENGINE	1.34
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	BMP		BMP			RM WATER POLLU	
	5		6			PREVENTION PLAN	١
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			DATE	DESCRIPTION REVISIONS	DESIGNED	DRAWN CHECKED G. VANNICE G. CHENG	APPRO

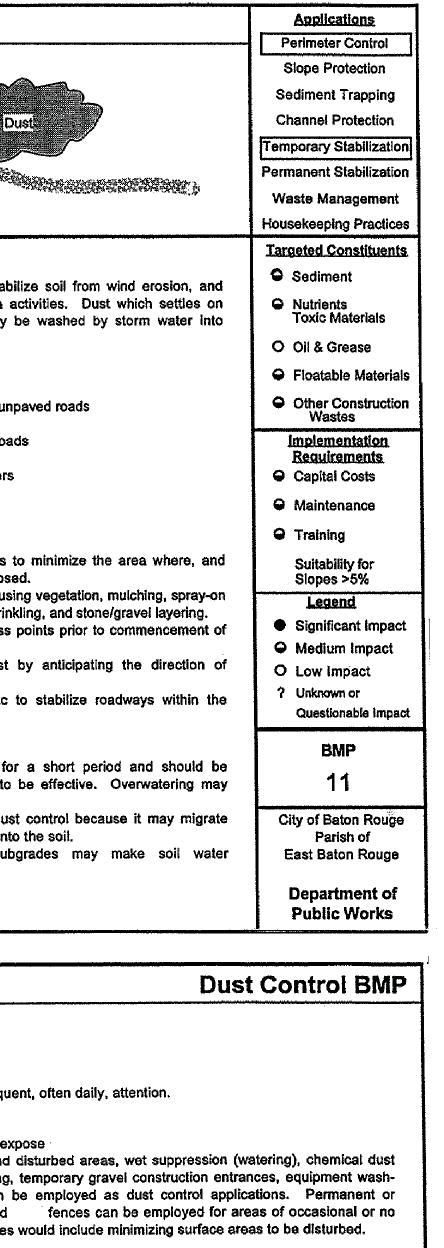
Construction of the first state	Perimeter Control	Interceptor Swale
Groundcover (Established as soon as possible)	Slope Protection	Design Water Surface
	Sediment Trapping	1.5' Max Depth
Compacted Soil 18" Min. Flow	Channel Protection	Disturbed Area
	Temporary Stabilization	
	Permanent Stabilization	Al a Bullion
4.5' Min-Stabilization	Waste Management	3:1 Max Slope
	Housekeeping Practices	
	Targeted Constituents	
DESCRIPTION A diversion dike is a compacted soil mound which redirects runoff to a	Sediment	DESCRIPTION
desired location The dike is typically stabilized with natural grass for low	O Nutrients	An interceptor swale is a small v- collects runoff and directs it to a de
velocities or with stone or erosion control mats for higher velocities.	Toxic Materials	natural grass lining or depending on s
PRIMARY USE	O Oil & Grease	lining of erosion matting, stone or con-
The diversion dike is normally used to intercept offsite flow upstream of the construction area and direct the flow around the disturbed soils. It can also	Floatable Materials	PRIMARY USE The interceptor swale can either be
be used downstream of the construction area to direct flow into a	Other Construction Wastes	from disturbed areas into a control
sediment reduction device such as a sediment basin or protected inlet. The diversion dike serves the same purpose and, based on the topography of	Implementation	around disturbed areas. Since the s grading operations, it can serve as
the site, can be used in combination with an interceptor swale.	Requirements	runoff across disturbed areas. As a
APPLICATIONS	Capital Costs	disturbed construction area, it redu measures to capture sediment from
By intercepting runoff before it has the chance to cause erosion, diversion dikes are very effective in reducing erosion at a reasonable cost. They are	Maintenance	Intercepting sediment laden flow dow
applicable to a large variety of projects including site developments and	O Training	can be directed into a sediment basi opposed to long runs of silt fence, stra
linear projects such as roadways and pipeline construction. Diversion dikes are normally used as perimeter controls for construction sites with large	Suitability for Slopes >5%	
amounts of offsite flow from neighboring properties. Used in combination	Legend	Based on site topography, swales ca with diversion dikes.
with swales, the diversion dike can be quickly installed with a minimum of equipment and cost, using the swale excavation as the dike. No sediment	 Significant Impact 	
removal technique is required if the dike is properly stabilized and the runoff	Medium Impact	APPLICATIONS Common applications for interceptor
is intercepted prior to crossing disturbed areas.	O Low Impact	development projects with substantian sites with a large area(s) of disturbant
Significant savings in structural controls can be realized by using diversion	? Unknown or	diversion dikes to intercept flows.
dikes to direct sheet flow to a central area such as a sediment basin or other sediment reduction structure if the runoff crosses disturbed areas.	Questionable Impact	throughout the project to direct flow
	BMP	fueling areas along with specific and which crosses disturbed areas or is o
DESIGN CRITERIA - The maximum contributing drainage area should be 10 acres or	7	be routed into a treatment BMP such
		Grass lined swales are an effective p
 Maximum depth of flow at the dike shall be 1 foot for 2 year design storm. 	City of Baton Rouge Parish of	grass effectively filters both sedimen velocity.
- The maximum width of the flow at the dike shall be 20 feet.	East Baton Rouge	
- Side slopes of the diversion dike shall be 3:1 or flatter.	Department of	
	Public Works	
	Diversion Dike	DESIGN CRITERIA
 Minimum width of the embankment at the top shall be 2 feet. Minimum embankment height shall be 18 inches as measured from upgrade side of the berm 	the toe of slope on the	DESIGN CRITERIA - Maximum depth of flow in the flow. Positive overflow must be
 Minimum width of the embankment at the top shall be 2 feet. Minimum embankment height shall be 18 inches as measured from upgrade side of the berm For velocities less than 6 feet per second, the minimum stabilization f 	the toe of slope on the or the dike and adjacent	- Maximum depth of flow in the
 Minimum width of the embankment at the top shall be 2 feet. Minimum embankment height shall be 18 inches as measured from upgrade side of the berm For velocities less than 6 feet per second, the minimum stabilization f flow areas is grass, erosion control mats or mulch. For velocities second, stone stabilization or high velocity erosion control mats show the	the toe of slope on the or the dike and adjacent greater than 6 feet per build be used. Velocities	 Maximum depth of flow in the flow. Positive overflow must be Side slopes of the swale shall
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PROJECT NO.	SHEET
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			THOMAS A. STEPHENS Liconse No. 19417 PROFESSIONAL ENGINEER IN SUIL ENGINEER
			STANDARD PLAN NO. DATED SHEET NO. 903–01 FEBRUARY 25, 2008 3 OF 11
			STORM WATER POLLUTION PREVENTION PLAN BEST MANAGEMENT PRACTICES
			ENGINEERING DIVISION
			- DEPARTMENT OF PUBLIC WORKS CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE
DATE	DESCRIPTION	BY	DESIGNED DRAWN CHECKED APPROVED G. CHENG G. VANNICE G. CHENG T. STEPHENS
<u></u>	REVISIONS		90.3–01

Point B should be above Point A	Perimeter Control	
	Slope Protection	
18" to $/$	Sediment Trapping	
	Channel Protection	
	Temporary Stabilization	
		Disturbed Area
	Permanent Stabilization	
Spacing	Waste Management	
- Ę	Housekeeping Practices	
	Targeted Constituents	
DESCRIPTION Check dams are small barriers consisting of straw bales, rock, or earth	Sediment	DESCRIPTION Dust control measures are use
berms placed across a drainage swale or ditch. They reduce the velocity of	O Nutrients	reduce dust generated by con-
small concentrated flows, provide a limited barrier for sediment and help	Toxic Materials	surfaces both on-site and off-
disperse concentrated flows, reducing potential erosion.	O Oil & Grease	waterways.
PRIMARY USE	Floatable Materials	APPLICATIONS
Check dams are used for long drainage swales or ditches in which permanent vegetation may not be established and erosive velocities are	O Other Construction	Clearing and grading act Construction vehicles tra
present. They are typically used in conjunction with other techniques such	Wastes	- Drilling and blasting activ
as inlet protection, rip rap or other sediment reduction techniques. Check	Implementation Description	- Sediment tracking onto
dams provide limited treatment. They are more useful in reducing flow to acceptable levels for other techniques.	<u>Requirements</u>	- Soil and debris storage - Batch drop from front er
	Maintenance	- Areas with unstabilized
APPLICATIONS Check dams are typically used early in construction in swales for long		
linear projects such as roadways. They can also be used in short swales	O Training	DESIGN CRITERIA
with a steep slope to reduce unacceptable velocities.	Suitability for	- Schedule construction
DESIGN CRITERIA	Slopes >5%	time period when soils a - Quickly stabilize expose
- Check dams should be placed at a distance and height to allow	Legend Significant Impact	adhesives, calcium chlo
small pools to form between each one. Typically, dam height should be between 18" and 36". Dams should be spaced such that	 Significant Impact Medium Impact 	- Identify and stabilize ke
the top of the downstream dam should be at the same elevation	O Low Impact	- Minimizing the impact
as the toe of the upstream dam.	? Unknown or	prevailing winds.
- See design criteria for straw bales, sand bag berms, etc. for	Questionable Impact	- Direct most construction project site.
specific criteria. Maximum allowable flow shall be based		
on the specific technique utilized and the velocity of flow.	BMP	LIMITATIONS - Watering prevents dus
- Major flows (greater than 2 year design storm) must pass the	10	applied daily (or more
check dam without causing excessive upstream flooding.	Allerter	cause a contaminated of - Oils should not be use
- Check dams should be used in conjunction with other sediment	City of Baton Rouge Parish of	- Olis should not be use into drainageway and/o
reduction techniques prior to releasing flow offsite.	East Baton Rouge	- Certain chemically-tre
		repellent, increasing rur
	Department of	
	Public Works	
LIMITATIONS Minor ponding will occur upstream of the check dams.		Most dust control measures req ADDITIONAL INFORMATION Dust control BMP's generally s
		 ADDITIONAL INFORMATION Dust control BMP's generally s dust particles. For heavily traveled suppression, gravel or asphalt out areas, and haul truck contemporary vegetation and muld construction traffic. Preventive Many of the reasonably available be implemented as BMPs for st Pave, vegetate, or che paved roads. Provide covers for haul Provide suppression or Provide for rapid cleat construction road entration Stabilize unpaved hau unpaved roads. Implement dust control Prevent drainage of se Stabilize abandoned complemented co
 Minor ponding will occur upstream of the check dams. For heavy flows or high velocity flows, extensive maintenance or replacement required. Check dams are not a total treatment technique. MAINTENANCE REQUIREMENTS Maintenance of the dams should adhere to the maintenance requirement 		 ADDITIONAL INFORMATION Dust control BMP's generally s dust particles. For heavily trav suppression, gravel or asphalt out areas, and haul truck cov temporary vegetation and muld construction traffic. Preventive Many of the reasonably availab be implemented as BMPs for st Pave, vegetate, or che paved roads. Provide covers for haul Provide for rapid cleat construction road entrat Stabilize unpaved hau unpaved roads. Implement dust control Prevent drainage of se
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I measures for controlling dust from construction sites can also ter pollution prevention. Those BMPs include:

stabilize access points where unpaved traffic surfaces adjoin

ansporting materials that contribute to dust.

I stabilization of exposed soils.

sediments deposited on paved roads. Furnish stabilized d vehicle wash down areas.

parking and staging areas. Reduce speed and trips on

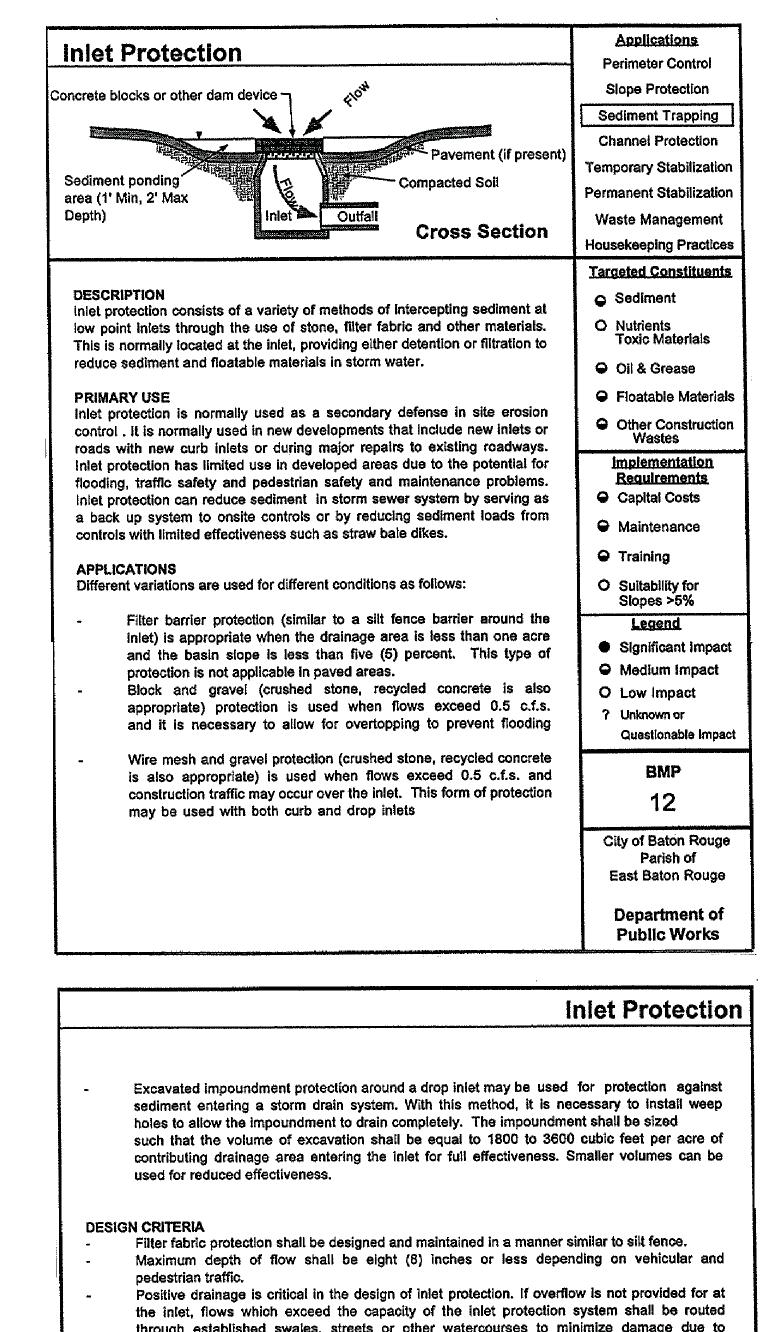
es for material stockpiles. aden storm water onto paved surfaces.

on sites using vegetation or chemical stabilization methods. urbed by clearing and earth moving operations by scheduling

re many products available as dust palliatives for chemically

identified in this

BMP 11 Department of Public Works



through established swales, streets or other watercourses to minimize damage due to ponding and to provide for public safety.

LIMITATIONS Ponding will occur at the inlet with possible flooding as a result.

inlet protection is only viable at low point inlets. Inlets which are on a slope cannot be effectively protected because stormwater will bypass the inlet and continue downstream, causing an overload condition at inlets beyond.

MAINTENANCE REQUIREMENTS

Inspections should be made on a weekly basis, especially after large (> 0.5 inches) storm events. When silt fence is used and the fabric becomes clogged, it should be cleaned or if necessary, replaced. Also, sediment should be removed when it reaches approximately one-half the height of the fence. If a sump is used, sediment should be removed when the volume of the basin is reduced by 50%.

For systems using stone filters, when the stone filter becomes clogged with sediment, the stones must be pulled away from the inlet and cleaned or replaced. Since cleaning of gravel at a construction site may be difficult, an alternative approach would be to use the clogged stone as fill material and put new stone around the inlet.

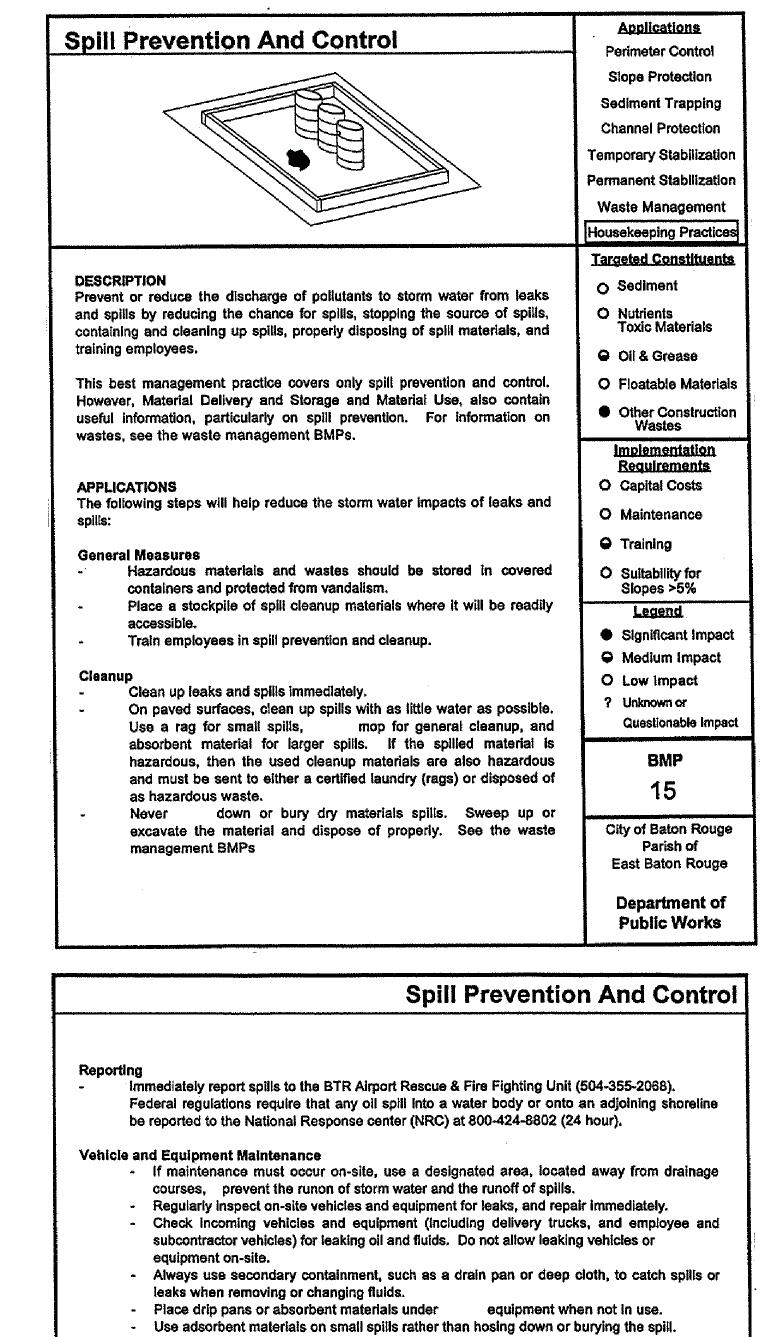
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STANDARD P		SHEET NO.
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	RM WATER POLLU ⁻ PREVENTION PLAN	
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	ENGINEERING DIVISION	
CITY OF BATON	TMENT OF PUBLIC V N ROUGE & PARISH OF EAST DRAWN CHECKED	BATON ROUGE APPROVED
DATE DESCRIPTION BY G. CHENG	G. VANNICE G. CHENG 903-01	T. STEPHENS

Dewatering Operations	Applications Perimeter Control	Material Delivery And Storage	Application Perimeter Con
	Slope Protection		Slope Protect
$/((\))$	Sediment Trapping	I MA	Sediment Trap
	Channel Protection		Channel Protec
	Temporary Stabilization		Temporary Stabil
	Permanent Stabilization		Permanent Stabi
	Waste Management		Waste Manage
	Housekeeping Practices		Housekeeping Pr
	Targeted Constituents		Targeted Consti
ESCRIPTION	O Sediment	DESCRIPTION	O Sediment
revent or reduce the discharge of pollutants to storm water from awatering operations by using sediment controls and by testing the water	O Nutrients	Prevent or reduce the discharge or pollutants to storm water from material delivery and storage by minimizing the storage of hazardous materials on-	O Nutrients
or contamination.	Toxic Materials	site, storing materials in a designated area, installing secondary	Toxic Materi
	Oil & Grease	containment, conducting regular inspection, and training employees and	Oil & Greas
APPLICATIONS There are two general classes or pollutants that may result from		subcontractors.	
dewatering operations: sediment, and toxics and petroleum products. A	O Floatable Materials	This best management practice covers only material delivery and storage.	O Floatable M
high sediment content in dewatering discharges is common because of	Other Construction Wastes	For information on wastes, see the waste management BMPs.	 Other Cons Wastes
the nature of the operation. On the other hand, toxics and petroleum		APPLICATIONS	
products are not commonly found in dewatering discharges unless, the site or surrounding area has been used for light or heavy industrial activities, or	Implementation Requirements	The following materials are commonly stored on construction sites:	Implementa Regulreme
the area has a history of groundwater contamination.	Capital Costs	- Pesticides and herbicides.	 Capital Cos
	O Maintenance	- Fertilizers.	O Maintenan
DESIGN CRITERIA Use sediment controls to remove sediment from water generated		 Detergents. Petroleum products such as fuel, oil, and grease. 	
from dewatering.	Training	- Other hazardous chemicals such as acids, lime, glues, paints,	Training
- Use filtration to remove sediment from a sediment trap or basin.	O Suitability for	solvents, and curing compounds.	O Suitability f
Filtration can be achieved with:	Slopes >5%	Storage of these materials on-site can pose the following risks:	Slopes >5%
 Sump pit and a standpipe in the center with holes and wapped in filter fabric. The standpipe is surrounded by 	Legend	 Storm water contamination. Injury to workers or visitors. 	Legend
stones which filters the water as it collects in the pit before	Significant Impact	- Groundwater contamination.	 Significant
being pumped out;	Medium Impact	- Soil contamination.	O Medium In
 Floating suction hose allowing cleaner surface water to be sumped auty or 	O Low Impact	DEBION ODWODIA	O Low Impa
pumped out; or - Standpipe in the sediment basin with slits and wrapped in	? Unknown or	DESIGN CRITERIA - Designate an area of the construction site for material delivery and	? Unknown or
filter fabric to remove sediments.	Questionable Impact	storage.	Questionabl
- Toxics and Petroleum Products:		- Place near the construction entrance, away from waterways	
 In areas suspected of having groundwater contamination, protect, yourself early in the excavation process by 	BMP	 Avoid transport near drainage paths or waterways Surround with earth berms 	BMP
protect yourself early in the excavation process by sampling and having the water tested at a certified	13		14
laboratory. Check with the Louisiana Department of			
Environmental Quality and the PROGRAM MANAGER for	City of Baton Rouge		City of Baton
their requirements, including additional water quality tests and disposal options.	Parish of East Baton Rouge		Parish o East Baton F
	East Editori Monda		
	Department of		Departme
	Public Works		Public We
 Contaminated water can be expensive to treat and/or dispose or addressing the problem before construction is much less expensive th are in place. 		- Storage of reactive, ignitible, or flammable liquids must comply with the BTR Airport Rescue and Fire Fighting (ARFF) regulations. Contact ARF	F, Captain Milton
	If contaminated water immediately notify the		F, Captain Milton posed storage are Liquid Code NFP/ laterials delivered is long as you nee rses and near the containment such a tive materials such secondarily contained und. Place these is ce ponding or raine abeled.

orage



Remove the adsorbent materials promptly and dispose of properly. - Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip

- pans or other open containers lying around. - Oil filters disposed of in trash cans or dumpsters can leak oil and contaminate storm water. Place the oil filter in a funnel over a water oil recycling drum to drain excess oil before disposal. Oil filters can also be recycled. Ask your oil supplier or recycler about recycling oil filters.
- Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries ven if you think all the acid has drained out. If you drop a battery, treat it as if is cracked. Put in into the containment area until you are sure it is not leaking.

Vehicle and Equipment Fueling

- If fueling must occur on-site, use designated areas, located away from drainage courses, to prevent the runon of storm water and the runoff of spills.
- Discourage "topping-off" of fuel tanks.
- Always use secondary containment, such as a drain pan, when fueling to catch spills/leaks.

LIMITATIONS If necessary, use a private spill cleanup company.

MAINTENANCE REQUIREMENTS

Keep ample supplies or spill control and cleanup materials on-site, near storage, unloading, and maintenance areas.

Update your spill cleanup materials as changes occur in the types of chemicals on-site.

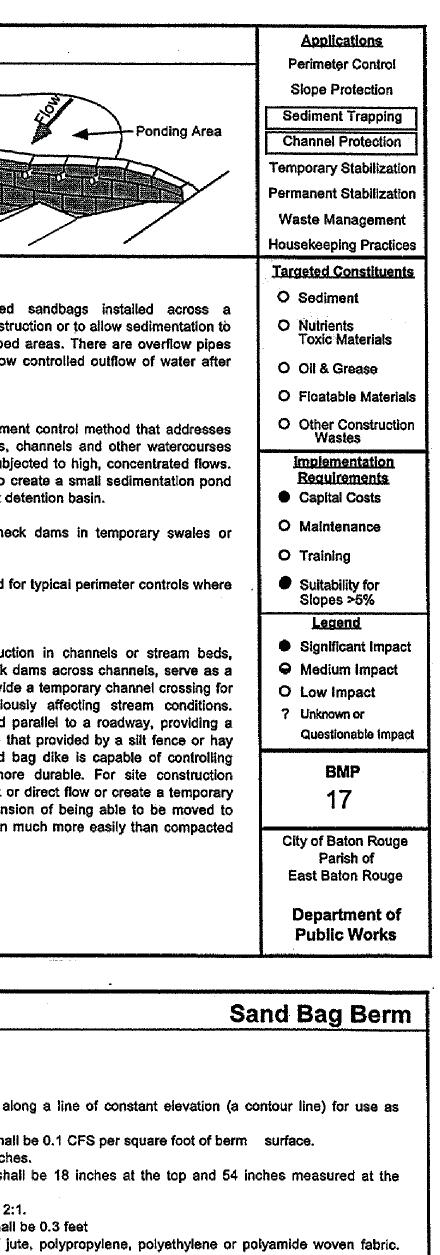
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				WATER POLLU	
				REVENTION PLAN ANAGEMENT PRA	
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				ROUGE & PARISH OF EAST DRAWN CHECKED	
DATE	DESCRIPTION REVISIONS	BY		. VANNICE G. CHENG	T. STEPHENS
				903-01	

Lime Stabilization BMP	Perimeter Control	Sand Bag B	~
ime Stabilized Surface Roughen slopes	Slope Protection		
Collect runoff	Sediment Trapping		
	Channel Protection		
	Temporary Stabilization Permanent Stabilization	Sandbag Berm —	
	Waste Management	Flowline of	\sim
	Housekeeping Practices	Channel or Swale	
	Targeted Constituents		
DESCRIPTION	O Sediment	DESCRIPTION	
Lime stabilization is used extensively in some areas to stabilize pavement subbases for roadways, parking lots and other paved surfaces. Hydrated	O Nutrients	Sandbag berms c watercourse to direc	
lime is applied to the soil and mixed through disking and other techniques,	Toxic Materials	occur for flows down	nstream of
then allowed to cure. This practice will reduce the potential for runoff to carry lime offsite, where it may impact aquatic life through changing the pH	O Oil & Grease	located in the top o sedimentation has or	
balance of streams, ponds and other water bodies.	O Floatable Materials	PRIMARY USE	
PRIMARY USE This BMP consists of a series of techniques that should be implemented	O Other Construction Wastes	A sandbag berm is	-
when lime is required for soil stabilization.	Implementation	the problem of cons which carry a constr	
APPLICATIONS	Requirements O Capital Costs	A sandbag berm can prior to the completion	
Each of the techniques listed can be used under a variety of conditions.	O Capital Costs		-
The engineer should determine the applicability of the technique based on site conditions such as available open space, quantity of area to be		Sandbag berms can borrow ditches.	n be used
stabilized, proximity of nearby water courses and other BMPs employed at	O Training		
the site. The use of diversion dikes and interceptor swales (see appropriate	O Suitability for Slopes >5%	Sandbag berms are sheet flow is prevale	
in conjunction with these techniques to reduce the impact of the lime.	Legend	APPLICATIONS	
DESIGN CRITERIA	Significant Impact	During utility or an	
 The contractor shall limit lime operations to that which can be thoroughly mixed and compacted by the end of each work day. 	Medium Impact	sandbag berms can barrier for utility tren	be used a
- No traffic other than water trucks and mixing equipment shall be	O Low Impact ? Unknown or	construction equipn	nent witho
allowed to pass over the spread lime until after completion of mixing.	Questionable Impact	Sandbag berms car corridor of sediment	
- Areas adjacent and downstream of stabilized areas shall be		bales with the exce	ption that
roughened to intercept lime from runoff and reduce runoff velocity. - Geotextile fabrics such as those used for silt fence should not be	BMP	much higher flows sandbag berms can	
used to address lime since the grain size of lime is significantly smaller than the equivalent opening size of the fabric.	16	sediment basin with	the adde
- For areas which phasing of lime operations is impractical, use of a	City of Baton Rouge	accommodate chang earth berms.	yas III CONS
curing seal such as Liquid Asphalt, Grade MC-250 or MC-800 applied at a rate of 0.15 gallons per square yard of surface can be	Parish of East Baton Rouge		
used to protect the base.			
	Department of Public Works		
Lime Sta	bilization BMP		
Lime Sta	bilization BMP		
 Use of sediment basins with a significant (>36 hour) drawdown time stabilized areas (see Sediment Basin BMP). 		DESIGN CRITERIA - Berms are t	o be const
- Use of sediment basins with a significant (>36 hour) drawdown time		- Berms are t perimeter co	ntrol device
- Use of sediment basins with a significant (>36 hour) drawdown time		- Berms are t perimeter co - Maximum fic - Minimum he	ntrol device bw through light shall b
- Use of sediment basins with a significant (>36 hour) drawdown time		- Berms are t perimeter co - Maximum fic - Minimum he - Minimum wi	ntrol device bw through light shall b
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a uniform weave of undyed and unbleached single jute jarn bounds per linear and of cloth with approximately 78 warp ends bylene, polyethylene or polyamide woven fabric shall have a bounces per square yard, a mullen burst strength of 300 psi lility exceeding 70 percent, and shall be filled with coarse sand or

greater PVC pipe segments approximately 24 inches in length below the top layer of sandbags to allow for flow through the

flows, woven wire mesh can be used to maintain the integrity of

ation of sediment removal equipment shall be provided between ons in order to properly remove sediment. I be turned upgrade or shall tie into natural grades to prevent

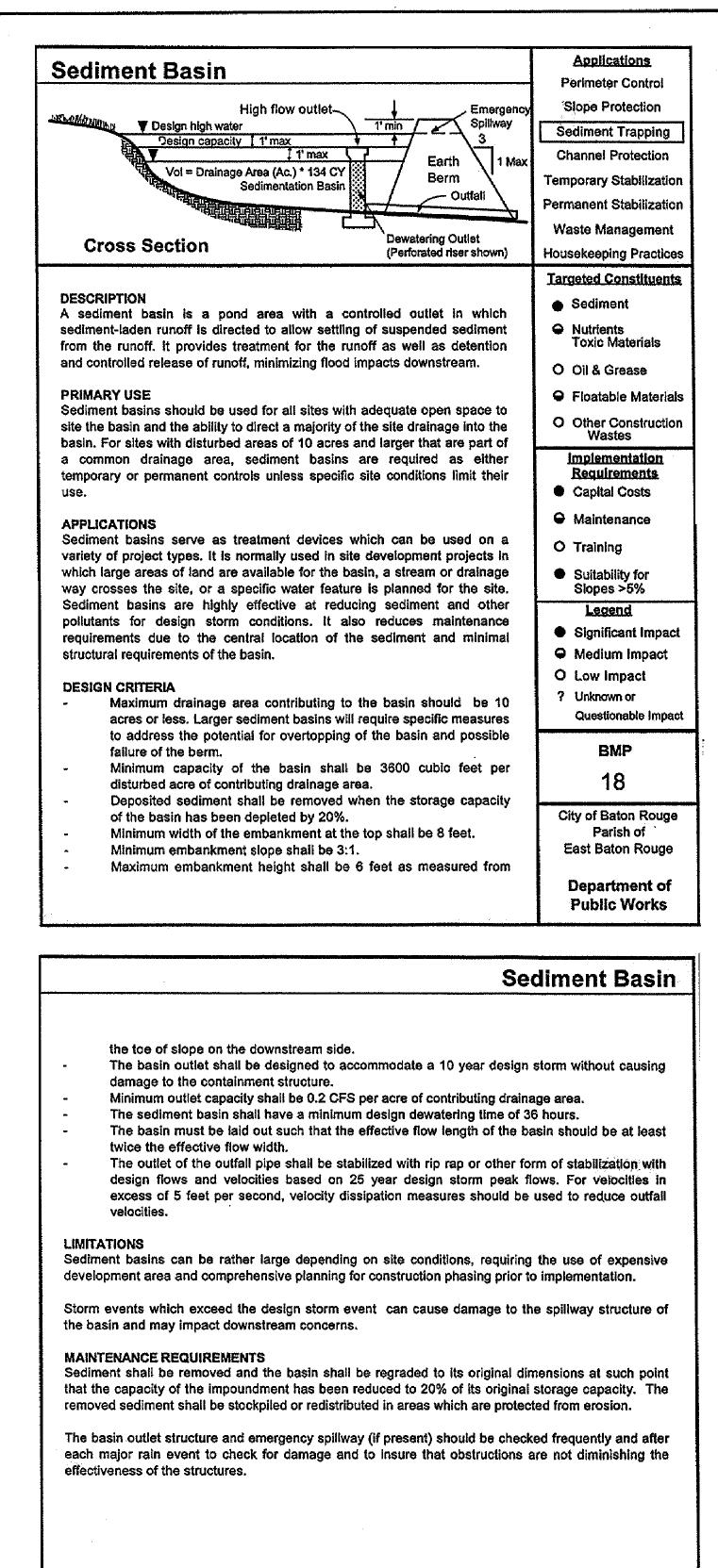
e center of the berm must be lower than the outside ends to erm.

intensive technique which is suitable only for areas subjected to eability of the berms makes it unsuitable for low flow, perimeter

from the berm creating the possibility of a flooding concern which ement.

flow areas such as creeks, the potential for berm damage during t for maintenance.

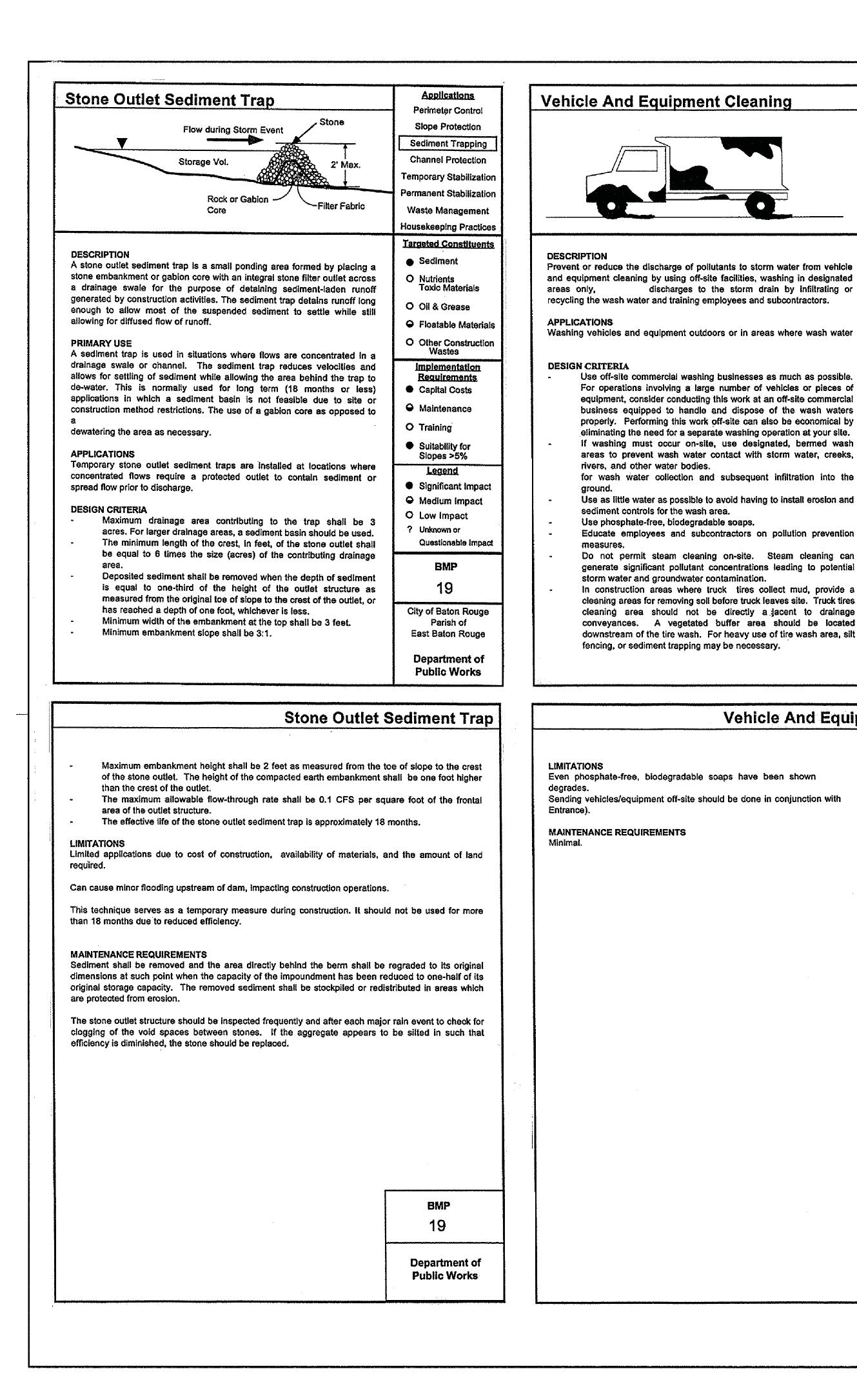
dally basis and after each significant bags shall be reshaped or replaced as hould be removed when it reaches a weekly inspections should be made on ear flow. BMP 17 Department of Public Works

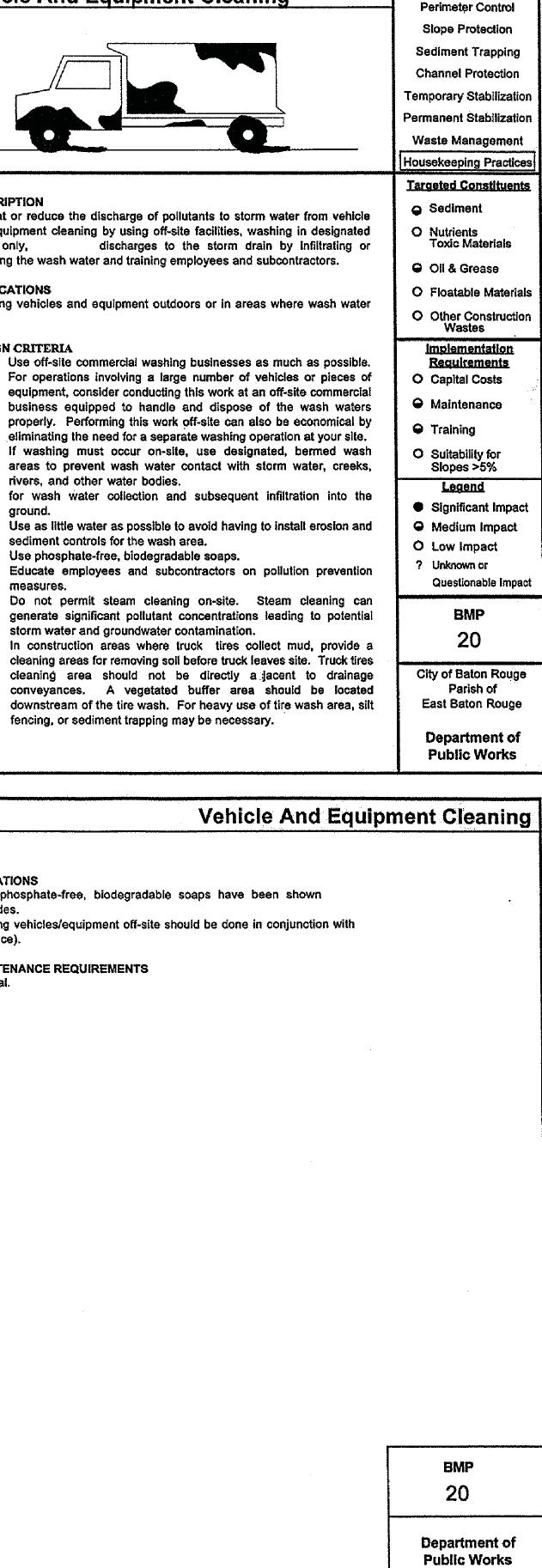


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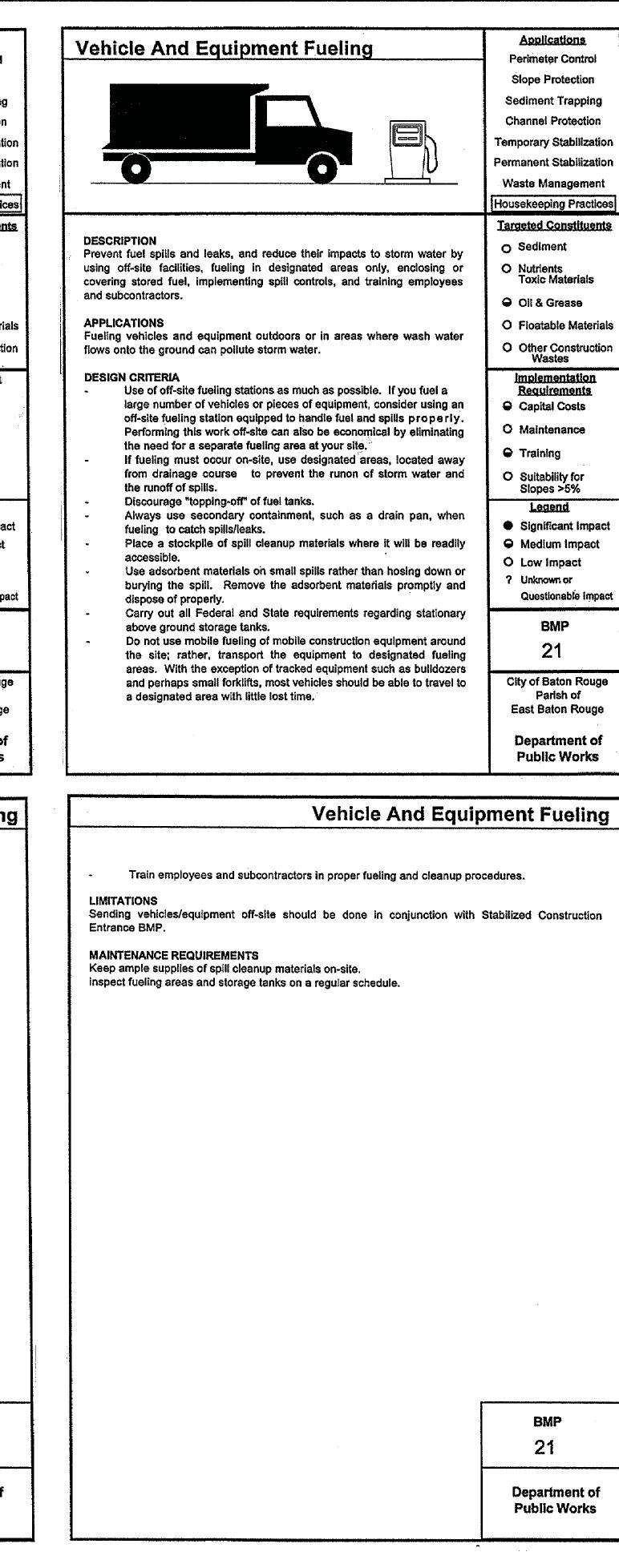
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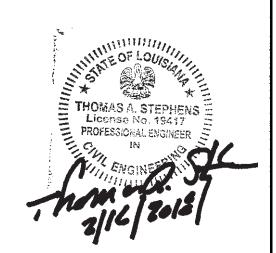
lid Waste Management	Applications Perimeter Control	Hazardous Waste Management	Applications Perimeter Control	Concrete Waste Management	Applications Perimeter Contr
SCRIPTION	Slope Protection	DESCRIPTION	Slope Protection	DESCRIPTION	Slope Protectio
ge volumes of solid waste are often generated at construction sites	Sediment Trapping	The hazardous waste management BMP addresses the problem of storm	Sediment Trapping	Concrete waste at construction sites comes in two forms; 1) excess fresh concrete mix including truck and equipment washing, and 2) concrete dust	Sediment Trapp
uding: packaging, pallets, wood waste, concrete waste, soil, electrical ng, cuttings, and a variety of other materials. The solid waste	Channel Protection	water polluted with hazardous waste through spills or other forms of contact. The objective of the Management Program is to minimize the	Channel Protection	and concrete debris resulting from demolition. Both forms have the	Channel Protect
nagement practice lists techniques to minimize the potential of storm		potential of stormwater contamination from common construction site	Temporary Stabilization	potential to impact water quality through storm water runoff contact with	Temporary Stabili
er contamination from solid waste through appropriate storage and operations of a practices.	Temporary Stabilization	hazardous wastes through appropriate recognition, handling, storage and		the waste.	Permanent Stabili
	Permanent Stabilization	disposal practices.	Permanent Stabilization	PRIMARY USE	
MARYUSE	Waste Management	It is not the intent of this Management Program to supersede or replace	Waste Management	Concrete waste is present at most construction sites. This BMP should be	Waste Manager
se practices should be a part of all construction practices. By limiting trash and debris on site, storm water quality is improved along with	Housekeeping Practices	normal site assessment and remediation procedures. Significant spills	Housekeeping Practices	utilized at sites in which concrete waste is present.	Housekeeping Pra
uced clean up requirements at the completion of the project.	Targeted Constituents	and/or contamination warrant immediate response by trained professionals. Suspected job-site contamination should be immediately	Targeted Constituents	APPLICATIONS	Targeted Constit
	O Sediment	reported to regulatory authorities and protective actions taken. The General	O Sediment	A number of water quality parameters can be affected by introduction of concrete - especially fresh concrete. Concrete affects the pH of runoff,	O Sediment
PLICATIONS solid waste management practice for construction sites is based on	Nutrients	Permit requires reporting of significant spills to the National Response	Nutrients	causing significant chemical changes in water bodies and harming aquatic	O Nutrients
per storage and disposal practices by construction workers and	Toxic Materials	Center (NRC) at (800) 424-8802.	Toxic Materials	life. Suspended solids in the form of both cement and aggregate dust are	Toxic Materi
ervisors. Key elements of the program are education and modification	O Oil & Grease	PRIMARY USE	Oil & Grease	also generated from both fresh and demolished concrete waste.	O Oil & Greas
mproper disposal habits. Cooperation and vigilance is required on the to supervisors and workers to ensure that the recommendations and	Floatable Materials	These management practices along with applicable OSHA and EPA guidelines should be incorporated at all construction sites which use or	O Floatable Materials	Current Unacceptable Waste Concrete Disposal Practices	O Floatable M
cedures are followed. Following are lists describing the targeted	Other Construction	generate hazardous wastes. Many wastes such as fuel, oil, grease,	Other Construction	- Dumping in vacant areas on the job-site	Other Cons
erials and recommended procedures:	Wastes	fertilizer and pesticide are present at most construction sites.	Wastes	 Illicit dumping off-jobsite Dumping into ditches or drainage facilities 	Wastes
Targeted Solid Waste Materials	Implementation		Implementation		Implementa
Paper and cardboard containers	Requirements	INSTALLATION, APPLICATION AND DISPOSAL CRITERIA	Requirements	Recommended Disposal Practices	Requireme Capital Cos
Plastic packaging	Capital Costs	The hazardous waste management techniques presented here are based	Capital Costs	 Avoid unacceptable disposal practices listed above. Develop pre-determined, safe concrete disposal areas. 	
Styrofoam packing and forms Insulation materials (non-hazardous)	Maintenance	on proper recognition, handling, and disposal practices by construction workers and supervisors. Key elements of the management program are	Maintenance	 Provide a washout area with a minimum of 6 cubic feet of 	Maintenan
Wood pallets	O Training	education, proper disposal practices, as well as provisions for safe storage	Training	containment area volume for every 10 cubic yards of concrete	Training
Wood cuttings		and disposal. Following are lists describing the targeted materials and		poured. Never dump waste concrete illicitly or without property owners	Ö Suitability f
Pipe and electrical cuttings Concrete, brick, and mortar waste	O Suitability for Slopes >5%	recommended procedures:	O Suitability for Slopes >5%	- Never dump waste concrete illicitiy or without property owners knowledge and consent.	Slopes >59
Shingle cuttings and waste	Legend	- Targeted Hazardous Waste Materials	Legend	- Treat runoff from storage areas through the use of structural	Legend
Roofing tar	 Significant Impact 	Paints	Significant Impact	controls as required.	Significant
Steel (cuttings, nails, rust residue) Gypsum board cuttings and waste	 Medium Impact 	Solvents	Medium Impact	Education	Medium Ir
Gypsum board cuttings and waste Sheathing cuttings and waste	O Low Impact	Stains Wood preservatives	O Low Impact	- Drivers and equipment operators should be instructed on proper	O Low Impa
Miscellaneous cutting and waste	? Unknown or	Cutting oils	? Unknown or	disposal and equipment washing practices (see above).	? Unknown or
Food waste Demolition waste	Questionable Impact	Greases	Questionable Impact	 Supervisors must be made aware of the potential environmental consequences of improperly handled concrete waste. 	Questionat
Contraction waste		Roofing tar Pesticides		consequences or improperty nancied concrete waste.	
age Procedures	BMP	Fuels & lube oils	BMP	Enforcement	BMP
Wherever possible, minimize production of solid waste materials.	22	Lead based paints (Demolition)	23	 The construction site manager or foreman must ensure that employees and pre-mix companies follow proper procedures for 	24
Designate a foreman or supervisor to oversee and enforce proper solid waste procedures.				concrete disposal and equipment washing.	
Instruct construction workers in proper solid waste procedures.	City of Baton Rouge	Storage Procedures - Wherever possible, minimize use of hazardous materials.	City of Baton Rouge	- Employees violating disposal or equipment cleaning directives must	City of Baton Parish
Segregate potentially hazardous waste from non-hazardous	Parish of East Baton Rouge	- Minimize generation of hazardous wastes on the job-site.	Parish of East Baton Rouge	be re-educated or disciplined if necessary.	East Baton I
construction site debris.	Last Daton Rydys	- Segregate potentially hazardous waste from non-hazardous			
	Department of	construction site debris.	Description and add		Departme
			Department of		
Solid Wast	Public Works e Management	Hazardous Waste	Public Works	Concrete Waste	
	Public Works	Hazardous Waste	Public Works		
Keep solid waste materials under cover in either a closed dumpste	Public Works	 Designate a foreman or supervisor to oversee hazardous materials har 	Public Works e Management	Concrete Waste Demolition Practices - Monitor weather and wind direction to ensure concrete dust is not enter	e Managei
Keep solid waste materials under cover in either a closed dumpste container that limits contact with rain and runoff.	Public Works e Management r or other enclosed trash	 Designate a foreman or supervisor to oversee hazardous materials har Keep liquid or semi-liquid hazardous waste in appropriate contail 	Public Works e Management	Demolition Practices - Monitor weather and wind direction to ensure concrete dust is not enter and surface waters.	e Manager
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PROJECT NO.	SHEET
12-AR-MS-014A	219

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	STANDARD PLAN NO. DATED SHEET NO. 903-01 FEBRUARY 25, 2008 8 OF 11
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	STORM WATER POLLUTION PREVENTION PLAN BEST MANAGEMENT PRACTICES
	ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS
	CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE
DATE DESCRIPTION BY REVISIONS	DESIGNEDDRAWNCHECKEDAPPROVEDG. CHENGG. VANNICEG. CHENGT. STEPHENS
	903-01

Sandblasting W	aste Management	Applications Retirector Control	Contaminated Soil Manage
ESCRIPTION		- Perimeter Control Slope Protection	
The objective of the this ma	nagement program is to minimize the potential	Sediment Trapping	
of storm water quality	degradation from sandblasting activities at	Channel Protection	
construction sites. The ke and storage of sandblast n	y issues in this program are prudent handling nedia, dust suppression, and proper collection	Temporary Stabilization	
and disposal of spent media	a. It is not the intent of this program to outline use pertinent to this practice. Safety issues	Permanent Stabilization	
should be addressed by c	onstruction safety programs as well as local,	Waste Management	Contaminated Soil
state, and federal regulation	S.	Housekeeping Practices	
INSTALLATION/APPLICATIC	ON CRITERIA	Targeted Constituents	DESCRIPTION
Since the media consists	of fine abrasive granules, it can be easily	O Sediment	Prevent or reduce the discharge of polluta
create a significant dust pro	ining water. Sandblasting activities typically blem which must be contained and collected to	 Nutrients Toxic Materials 	contaminated soil and highly acidic or alkalin construction surveys, inspecting excavations
prevent off-site migration of		O Oil & Grease	contaminated soil promptly.
Operational Procedures	1. 1. K. 11. 11. 1. 14.	O Floatable Materials	APPLICATIONS Contaminated soils may occur on your site for se
 Use appropriate equ 	legradable sandblast media. Ipment for the job, do not over-blast.	Other Construction Wastes	Past site uses and activities;
- Wherever possible,	blast in a downward direction. r other wind direction instrument.	Implementation	Detected or undetected spills and leaks;
 Cease blasting acti 	vities in high winds or if wind direction could	Requirements ● Capital Costs	DESIGN CRITERIA - Conduct thorough site planning includin
transport grit to drain - Install dust shielding	around sandblasting areas.		surveys.
 Collect and dispo 	se of all spent sandblast grit, use dust and dust collection hoppers and barrels.	 Maintenance Training 	 Look for contaminated soil as differences in soil properties.
- Non-hazardous sar	idblast grit may be disposed in permitted	-	 Seal bedrock fractures with grout or be from excavation.
lf sandblast media	andfills or permitted sanitary landfills. cannot be fully contained, construct sediment	O Suitability for Slopes >5%	- Prevent leaks and spills to the ma
traps downstream fr	om blasting area where appropriate. here appropriate in areas where blast media -	Legend	Contaminated soil can be expensive properly. However, addressing the
cannot be fully cont	ained.	 Significant Impact Medium Impact 	construction is much less expensive the place.
from the air - preve	misting equipment to remove sandblast grit at runoff from misting operations from entering	O Low Impact	- Test suspected soils at a certified labora
drainage systems.	ection systems where possible.	? Unknown or	 If the soil is contaminated, work with the to develop options for treatment and/or
 Keep records of sat 	ndblasting materials, procedures, and weather	Questionable Impact	LIMITATIONS
conditions on a daily Take all reasonable	precautions to ensure that sandblasting grit is	BMP	If necessary, use a private spill cleanup company
contained and kept	away from drainage structures.	25	MAINTENANCE REQUIREMENTS
Educational Issues	main one of adapticit departs to be a set	City of Baton Rouge	Contaminated soils that cannot be treated on-s site by a licensed hazardous waste hauler.
the environment from	employees of potential dangers to humans and n sandblast grit.	Parish of East Baton Rouge	The presence of contaminated soil may indic well.
		musi baini Nuuye	
		Department of Public Works	
	Sandblasting Wast	Public Works	Conitonal Contin Manto Ma
	Sandblasting Wast	Public Works	Sanitary/Septic Waste Mar
- instruct all on-site	employees of the potential hazardous nature of	Public Works	Sanitary/Septic Waste Mar
possible symptoms of	employees of the potential hazardous nature of over-exposure to sandblast grit.	Public Works Management sandblast grit and the	
possible symptoms o instruct operators o equipment.	employees of the potential hazardous nature of of over-exposure to sandblast grit. f sandblasting equipment on safety procedures	Public Works Management sandblast grit and the and personal protection	
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	Perimeter Control
Protective Cover	Slope Protection Sediment Trapping
Low Permeability	Channel Protection
Surface	Temporary Stabilization
	Permanent Stabilization
	Waste Management
	Housekeeping Practices
	Targeted Constituents
itants to storm water from ine soils by conducting pre-	 Sediment Nutrients
s regularly, and remediating	Toxic Materials
	O Oll & Grease
several reasons including:	O Floatable Materials
	Other Construction Wastes
is; and	Implementation
ling pre-construction geologic	Requirements Capital Costs
	O Maintenance
	⊖ Training
bentonite to reduce seepage	O Suitability for
naximum extent practicable. e to treat and/or dispose of	Slopes >5%
he problem before building	Legend Significant Impact
than after the buildings are in	Medium Impact
pratory. the local regulatory agencies	O Low Impact
or disposal.	? Unknown or Questionable Impact
any.	BMP
-site must be disposed of off-	26
	City of Baton Rouge
licate contaminated water as	Parish of East Baton Rouge
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anagement	Applications Perimeter Control
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	ppe Drain		Applications
po o	1 1 6"		Perimeter Control
	Diversion D	Dike ——— Pipe Slope Drain	Slope Protection
Flow			Sediment Trapping
			Channel Protection
D= Pipe Dia	meter	Re la	Temporary Stabilization
			Permanent Stabilization
	Unstabilized slope		Waste Management
	Unarabilized slope		Housekeeping Practice
			Targeted Constituents
DESCRIPTION			c Sediment
		utilizing flexible pipe that conveys runoff on the upstream end with some form of	O Nutrients
	t erosion and secure the pipe.	·	Toxic Materials
PRIMARY USI	—		O Oil & Grease
		unstabilized, steep slope area which is Ily used in combination with interceptor	Floatable Materials
swales or dive provide service	rsion dikes to direct the flow into the for a relatively large area. It does t	ne pipe area. The pipe slope drain can not treat the runoff. therefore if the runoff	O Other Construction Wastes
		outlet will be required before the flow is	Implementation
released offsite	4		Requirements Capital Costs
APPLICATION		roadway embankments are candidates	
for a pipe slop	e drain. Since provisions must be m	ade to direct the flow into the pipe drain,	Maintenance
		pipe slope drain. Installed property, slope ninated) through the use of the drain.	O Training
, , , , , , , , , , , , , , , , , , ,			Suitability for Slopes >5%
		This is critical since the velocities at the Il as stone or concrete rip rap are typically	Legend
required to rea	duce the velocity and spread the fi	ow, reducing erosion. Flow from a pipe	 Significant Impact
	ould be routed to a sediment reduc or other suitable methods.	tion practice through interceptor swales,	Medium impact
			O Low Impact
DESIGN CRIT		y be a standard corrugated metal pre-	? Unknown or
fabrio	cated flared end section with an inte	gral toe plate extending a minimum of 6	Questionable Impac
	es from the bottom of the end section ent maximum.	on. The grade of the entrance shall be 3	BMP
- The	berm at the entrance shall have a r	ninimum height of the pipe diameter +	
	nd a minimum width of 3 times the p vertions of the pipe slope drain	nipe diameter.	28
colla	rs or gasketed watertight fittings.		City of Baton Rouge
	ediment-laden runoff conveyed by t ment trapping facility.	he pipe slope drain shall be directed to a	Parish of
- Terr	porary pipe slope drains are to I	be sized to accommodate runoff flows	East Baton Rouge
equi	valent to a 10 year storm as calc	ulated using the Rational Method and	Department of
			Public Works

12'	0.5 Acres
18"	1.5 Acres
21*	2.5 Acres
24"	3.5 Acres
30"	5.0 Acres

- Maximum drainage area for individual pipe slope drains shall be 5 acres. For areas larger than 5 acres, additional drains shall be added.
- Both the entrance and outfall of the pipe slope drain should be property stabilized. Grass can normally be used at the entrance, but armor type stabilization such as stone or concrete rip rap is normally required to address the high velocities of the outfall.
- An effectiveness rating is based on the ratio of storm water routed away from the slope and into the pipe drain versus the total area of the drainage basin. A minimum value of 0.40 and a maximum value of 0.85 is used for the rating.

- LIMITATIONS
 Drains must be located away from construction areas since the drain can easily be damaged by construction
- Securing the pipe to the slope can be difficult and require significant maintenance during the life of the system. In situations where pipe slope drains convey sediment-laden runoff, pipes can become clogged during large rain -.... events causing water to overtop the diversion dike thereby creating a serious erosion condition.
- Grading is normally required upstream of the pipe slope drain in order to direct flow into the system. This can cause additional cost and maintenance. A pipe slope drain reduces erosion but does not prevent it or reduce the amount of sediment in runoff. Additional
- measures should be used in conjunction with the pipe slope drain to treat the flow.

MAINTENANCE REQUIREMENTS

inspection must be made of the pipe after each significant (>0.5 inch) rain event to locate and repair any damage to joints or clogging of the pipe. In cases where the diversion dike has deteriorated from around the entrance of the pipe, it may be necessary to reinforce the dike with sancbags or to install a concrete collar to prevent failure. Signs of erosion around the pipe drain should be addressed in a timely manner by stabilizing the area with erosion control mats, crushed stone, concrete or other acceptable method.

ed stone, concrete or other acceptable method.	вмр 28
	Department of Public Works

PROJECT NO.	SHEET
12-AR-MS-014A	220

	THOMAS A. STEPHENS License No. 15617 PROFESSIONAL ENGINEER IN FNGINEER
	STANDARD PLAN NO. DATED SHEET NO. 903-01 FEBRUARY 25, 2008 9 OF 11
	STORM WATER POLLUTION PREVENTION PLAN BEST MANAGEMENT PRACTICES
	ENGINEERING DIVISION
	DEPARTMENT OF PUBLIC WORKS CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE
DATE DESCRIPTION BY REVISIONS	DESIGNEDDRAWNCHECKEDAPPROVEDG. CHENGG. VANNICEG. CHENGT. STEPHENS
	903-01

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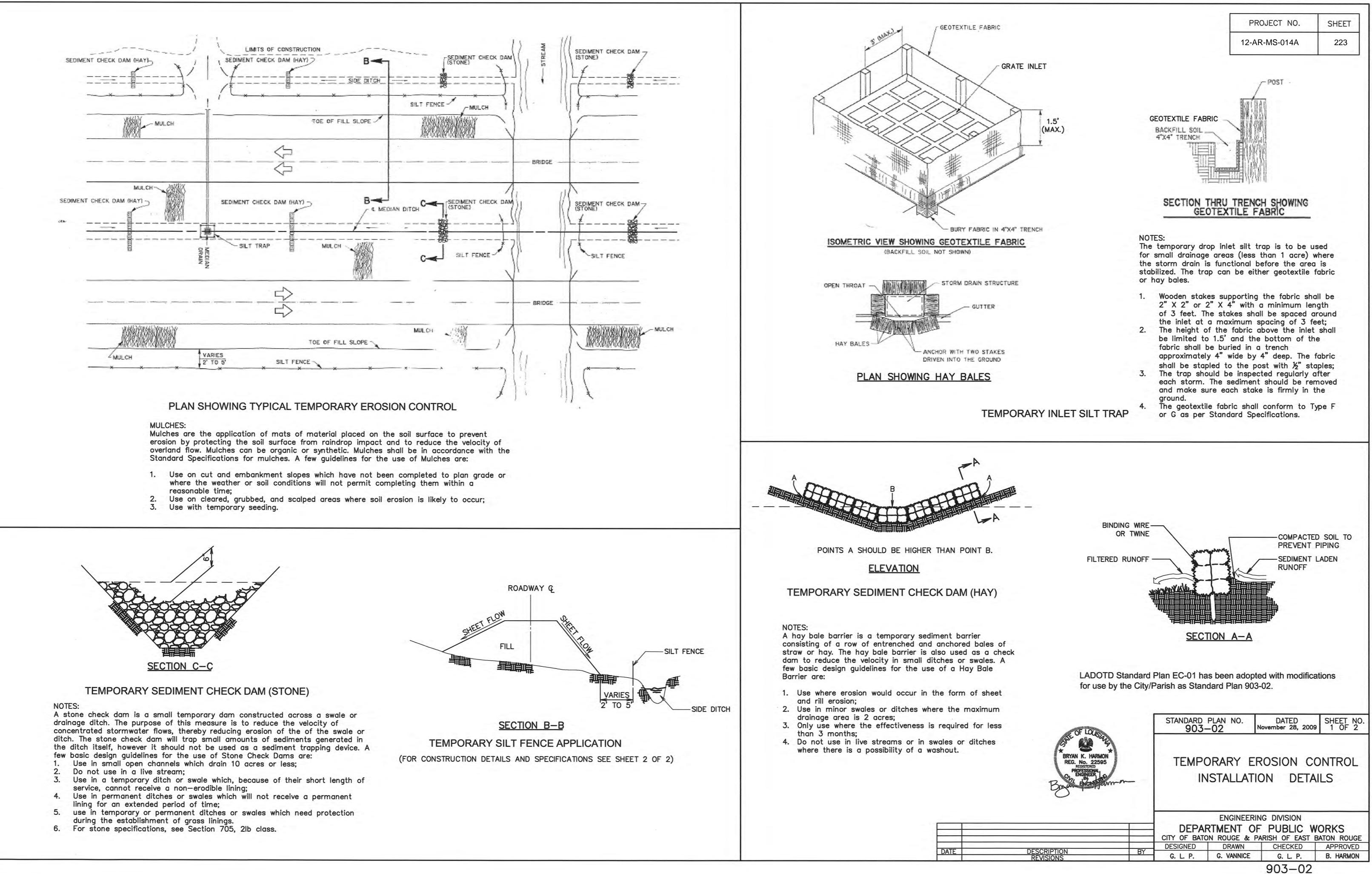
ζ	Applications	Topsoiling	Applications	PROJECT NO. SHE
Optional Baffle	- Perimeter Control		Perimeter Control	
(Cutaway View)	Slope Protection	– Topsoil	Slope Protection	12-AR-MS-014A 2
	Sediment Trapping		Sediment Trapping	
age Area	Channel Protection	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Channel Protection	
TALL T	Temporary Stabilization		Temporary Stabilization	
Filter Fabric	Permanent Stabilization	Disturbed Soil	Permanent Stabilization	
(Optional)	Waste Management		Waste Management	
	Housekeeping Practices		Housekeeping Practices	
	Targeted Constituents	STANDARD FOR TOPSOILING ¹	Targeted Constituents	
ruck mounted tank used to	Sediment	TOPSOILING	Sediment	
mentation and filtration. For water tight container can be	O Nutrients Toxic Materials		O Nutrients	
ank where it is detained. If	O Oil & Grease	Definitions: Topsoiling is the stripping, storing and spreading of fertile topsoil over disturbed areas.	Toxic Materials	
provided to release the flow		topson over disturbed areas.	O Oil & Grease	
	O Floatable Materials	Sumany Tenniling will provide a more evideble cell medium if the eviction	O Floatable Materials	
es in urban areas where	O Other Construction Wastes	Purpose: Topsoiling will provide a more suitable soil medium if the existing or constructed surface is unfavorable for plant growth. Topsoiling will	O Other Construction Wastes	
l (e. g., sediment traps,	Implementation	greatly increase the success of establishing good vegetations, help reduce	Implementation	
	Requirements Capital Costs 	soil erosion, and enhance the beauty of the development.	Requirements	
	·	Conditions Where Practices Applies:	Capital Costs	
n in confined areas (such as	Maintenance	Topsoiling is Used Where:	Maintenance	
or localized construction in a nail, depressed construction	Training		O Training	
avation in heavily developed	O Suitability for	 The texture and quality of the exposed subsoil or parent material are not suitable for producing adequate vegetative 	Suitability for	
lows due to groundwater or	Slopes >5%	growth.	Slopes >5%	
-	Legend ● Significant Impact	 The soil material is so shallow that the rooting zone is not 	Legend	
tation or filtration device. If	Significant Impact Medium Impact	deep enough to support plants with continuing supplies of	 Significant Impact Medium Impact 	
additional treatment will be	O Low Impact	moisture and plant nutrients.	O Low Impact	
	? Unknown ar	The soil is extremely acidic or contains material toxic to	? Unknown or	
ntation basin, de-watering	Questionable Impact	plant growth.	Questionable Impact	
o a level below the tank nours to allow settlement of	BMP	Design Criteria	BMP	
es. The tank should be	30	Topsoli Materials		
n the contents of the tank When sediment occupies	JU	The site should be explored to determine if there is	31	
be removed from the tank.	City of Baton Rouge	sufficient surface soil of good quality to justify stripping. If	City of Baton Rouge	
for collecting de-watering	Parish of East Baton Rouge		Parish of	
red opening at the outlet of			East Balon Rouge	
	Department of		Department of	
NUTL	Public Works		Public Works	
				•
Temporary S	Sediment Tank	Τ	opsoiling	
		additional alls associated in the second is about the second statement		
		additional off-site topsoil is needed, it should meet the following standards as well:		
nt volume. The filter opening mailer.	in the TST should have			
· · · · · · · · · · · · · · · · · · ·		- Topsoil should be friable and loamy (loam, sandy loam, silt		
ions listed. It is not cost effect	tive for normal sediment	loam, sandy clay loam, clay		
The second is to not used shall		loam).		
ited by the capacity of the tan	nk, the time required for	- Topsoil should be free of		
al of the water and the sedimen		debris, objectionable weeds and stones, and contain no		
		toxic substances that may be		
		harmful to plant growth.		
cted periodically during and afte ent.	er use. A tank should be	- Organic matter content should		
		not be less than 0.75 percent by weight; pH range should		
		be from 5.0 - 7.5.		
		Stripping and Stockpiling		
		Stripping should be confined to the immediate construction		
		area. A 4-6 inch stripping depth is common, but may vary depending on the particular soil.		
				IN TEOFLOUIS
		Topsoil should be stockpiled so that natural drainage is not obstructed and off-site sediment damage does not occur.		
		stockpile sidestopes should not exceed 2:1. A perimeter		THOMAS A. STEPHENS
		dike with a outlet or straw bale barriers should surround the stockpiles. Temporary seeding should be		PROFESSIONAL ENGINEER
		completed within 15 days of stockpile formation.		AND ENGINEERING
		Site Preparation		
		When topsoiling, maintain needed erosion control practices		- no -116 7018
		such as diversion dikes, sediment basins, waterways, etc.		
		Grading - Grades on the areas to be		
		topsoiled, which have been previously established, should		STANDARD PLAN NO. DATED SHE
		be maintained.		<u>903–01</u> FEBRUARY 25, 2008 10
		Liming - Where the pH of the subsoil	<u></u>	
	BMP	is .0 or less or the soil is	BMP	
	30	composed of heavy clays, agricultural lime	31	STORM WATER POLLUTION
		be spread in accordance with		PREVENTION PLAN
	Demostration	the soil test on the vegetative	Department of	BEST MANAGEMENT PRACTICI
	Department of Public Works	establishment practice being used.	Department of Public Works	
	<u>.</u>		J	ENGINEERING DIVISION
				DEPARTMENT OF PUBLIC WORK
				CITY OF BATON ROUGE & PARISH OF EAST BATON DESIGNED DRAWN CHECKED APP
				LONGINE I DIAMIN I UNED I AFF
				DATE DESCRIPTION BY G. CHENG G. VANNICE G. CHENG T. ST

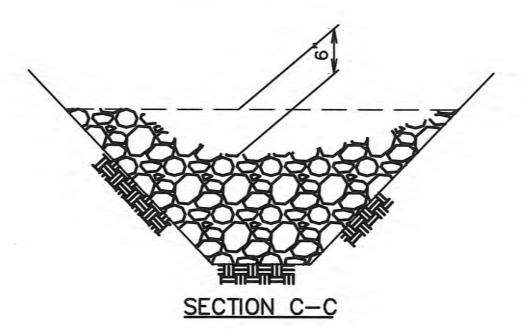
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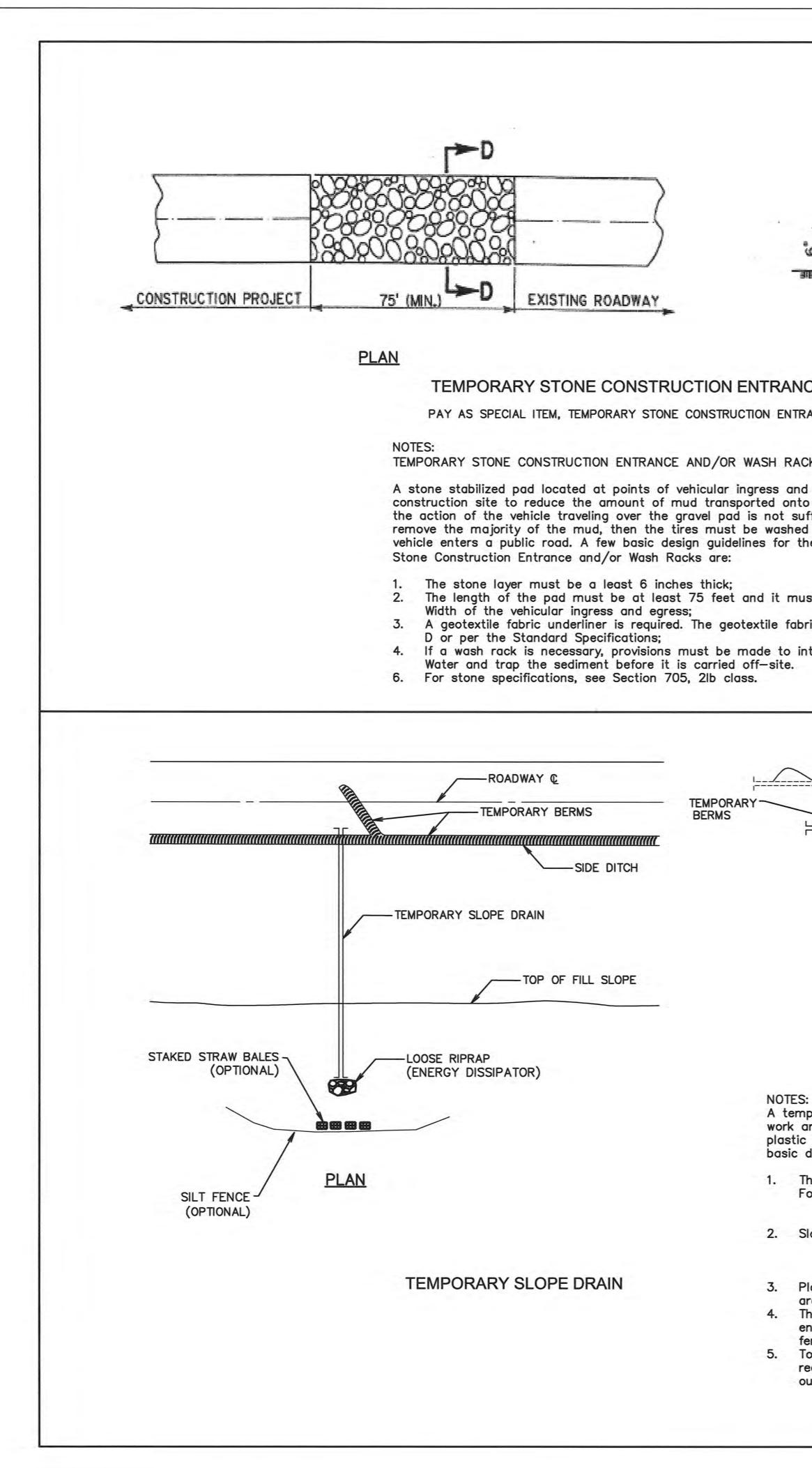
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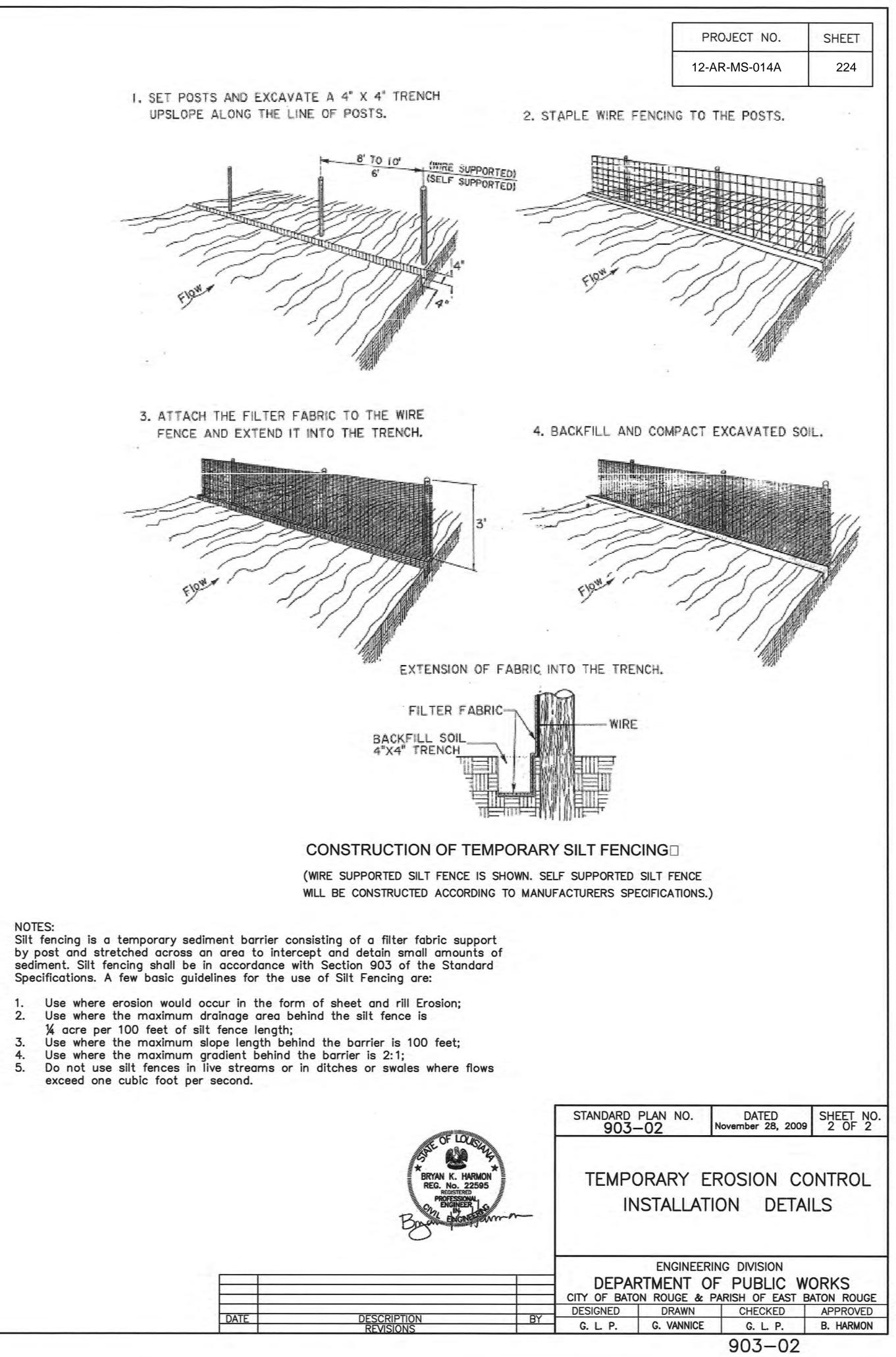
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TE DESCRIPTION BY REVISIONS		ANNICE G. CHENG	APPROVED T. STEPHENS
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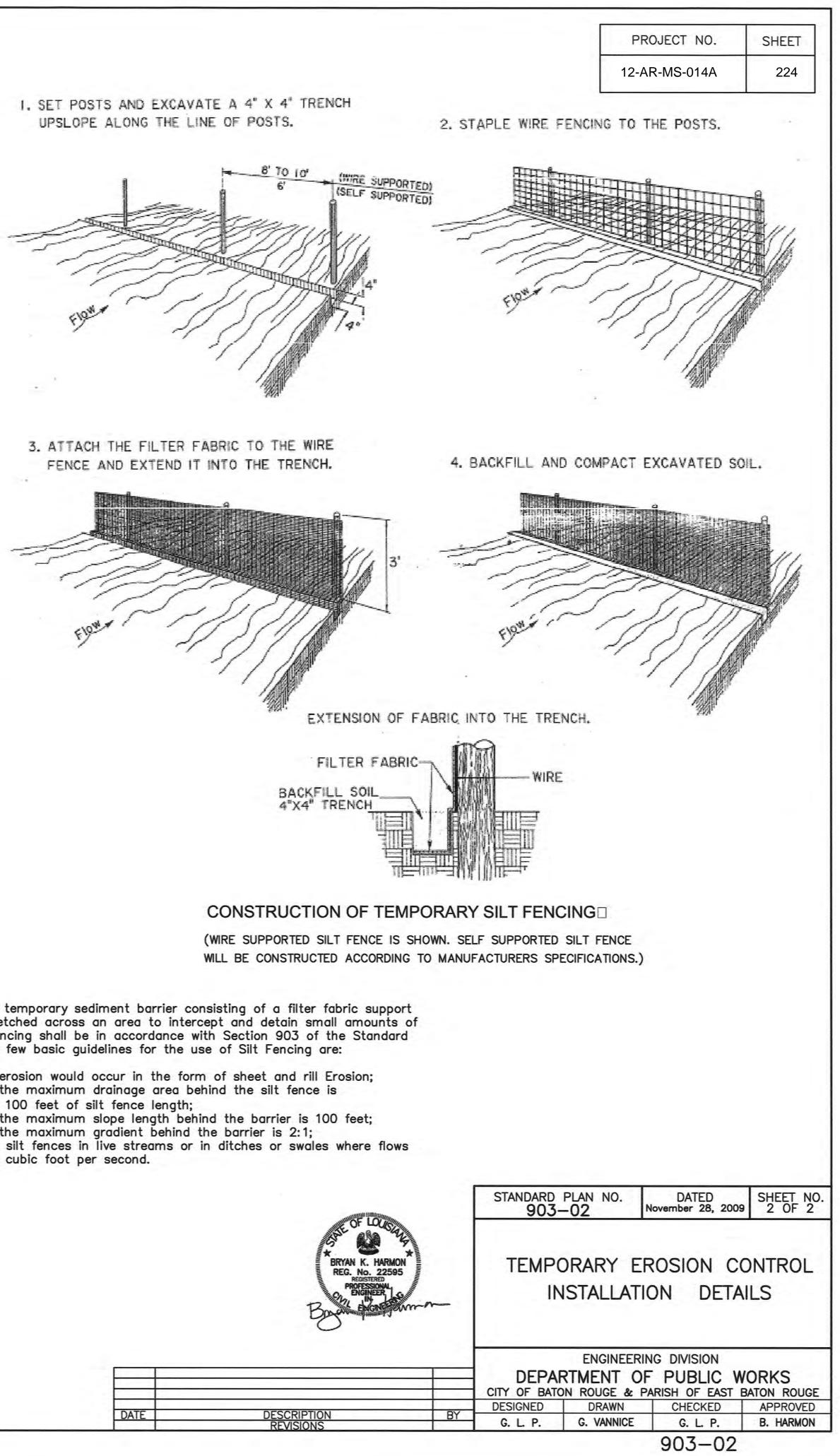






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SECTION D-D	
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d egress on the o public roads. If ufficient to d before the he use of a	
ust extend the	
oric shall be Type	
ntercept the wash	
EXTEND DRAIN AS REQUIRED TO COINCIDE WITH HEIGHT OF EMBANKMENT	
TEMPORARY SLOPE DRAIN	
STAKED STRAW BALES (OPTIONAL)	
SILT FENCE (OPTIONAL)	
LOOSE RIPRAP (ENERGY DISSIPATOR)	
ELEVATION	
S: nporary slope drain is a device used to carry water from the construction area to a lower elevation. Slope drains may be plastic sheets, metal or c pipe, stone gutters, fiber mats, or concrete or asphalt ditches. A few design guidelines for the use of a Temporary Slope Drain are:	
The spacing of the slope drains varies with the road grade. For Grades: 0.0% - 2.0% use 500' spacing 2.1% - 5.0% use 200' spacing Greater than 5.0% use 100' spacing	
Slope drain material: Smooth pipe - 8" minimum Corrugated pipe -12" minimum Plastic sheeting -4' wide minimum Plastic sheeting -3 mils thick minimum	
Plastic sheeting can be staked down or weighted with rocks or Logs. The area under the sheeting should be shaped to provide an adequate channel. The outlet end should be protected or have some means of dissipating energy. The flow should be directed through a sediment trap such as silt fence or hay bales.	
To insure proper operation, temporary slope drains should be inspected regularly and after each storm, for clogging or displacement. Erosion at the	
outlet should be checked and the slit traps cleaned if necessary.	





NOTES:

GENERAL PROVISIONS

- All Temporary Traffic Control (TTC) Devices used shall be in accordance with the City-Parish Standard Specifications for Public Works Construction, the current edition of the Manual on Uniform Traffic Control Devices (MUTCD), and the requirements of the National Cooperative Highways Research Program (NCHRP) 350 for Test Level 3. The MUTCD is available at http:mutcd.fhwa.dot.gov/
- The Contractor shall provide one or more authorized Traffic Control Supervisor (TCS) in accordance with the Standard Specifications.
- Materials used for Temporary Traffic Controls shall be in accordance with the City-Parish Standard Specifications for Public Works Construction and when applicable the City-Parish Qualified Products List (C-P QPL).
- No temporary traffic controls shall be erected without the approval of the City-Parish Traffic Engineer and until work is about to begin, unless they are covered.
- No lane closures, lane shifts, diversions, or detours shall occur without the authorization of the City-Parish Traffic Engineer.
- Responsibility is hereby placed upon the contractor for the installation, maintance, and operation of all temporary traffic control devices called for in these plans or required by the Project Engineer for the protection of the traveling public as well as all Department and construction personal. All reflective devices such as signs, drums, barricades, vertical panels, delineators of any type, etc. shall be cleaned or washed periodically to maintain their effectiveness, as required by conditions or Project Engineer.
- The contractor shall also be responsible for the maintenance of all permanent signs and pavement markings left in place as essential to the safe movement and guidance of traffic within the project limits.
- The City-Parish Traffic Engineer shall serve as a technical advisor to the Project Engineer for all Traffic Control matters.
- "Road Work XX Miles" sign shall be required on all projects and located at beginning of the project unless otherwise noted. The sign shall be a minimum Thirty-Six (36) inch X Sixty (60) inch unless otherwise noted.
- Warning signs used for lane closures or lane shifts in which the roadway shall be returned to full public use within Fourteen (14) hours or less may be placed on NCHRP350 approved portable sign frames.
- The City-Parish will approve any detour route marking required to guide travelers around the construction area, but the contractor will be responsible for the required signage.

SPEED LIMITS

- Speed limits shall be lowered by Ten (10) mph for any construction, maintenance, or utility operation that requires one or more of the following: (A) the condition of the original highway is degraded due to milled surfaces or uneven pavements; (B) work is in progress in the immediate vicinity of the travel way requiring lane closures, lane width reductions, or low speed diversions; (C) workers present on the shoulder within Two (2) ft of the edge of traveled way without barrier protection.
- The reduced speed zone shall only apply to those portions of the project limits affected. The Project Engineer may allow SPEED LIMIT WHEN FLASHING signs to supplement reduced speed zones.
- At the end of the reduced speed zone, a speed limit sign displaying the original speed limit before construction shall be installed.
- If conditions warrant, the City-Parish Traffic Engineer may authorize the reduction of the speed limit by more than Ten (10) mph.

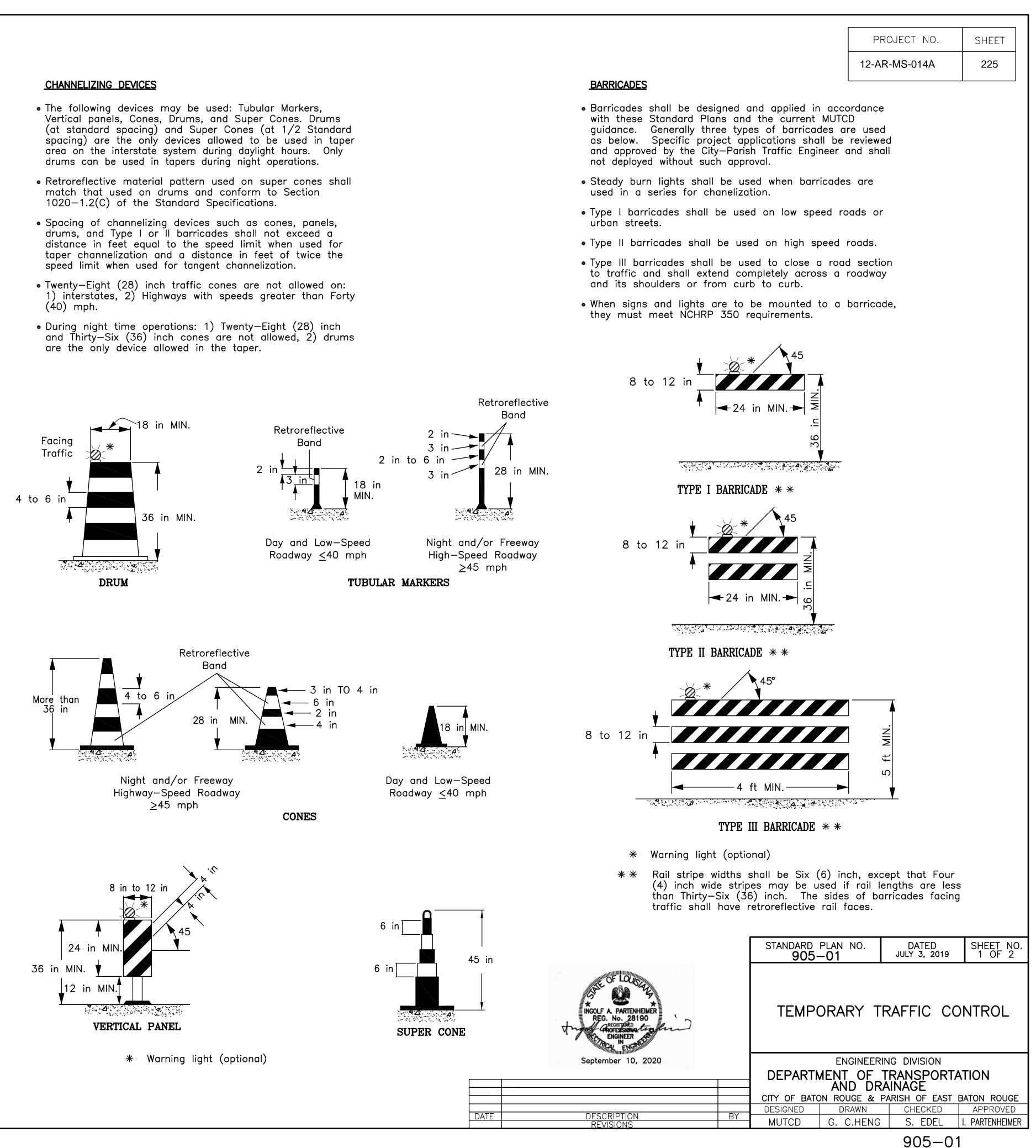
PAVEMENT MARKINGS (see C-P QPL)

- All pavement markings within the limits of the project that are in conflict with the project signing or the required traffic movements shall be removed from the pavement by blast cleaning or grinding (Existing striping shall not be painted over with black paint or covered with tape).
- If special pavement markings are needed, they shall be reflectorized, removable, and accompanied by the proper signage.
- Temporary Raised Pavement Markers (RPMs) may be added to supplement temporary striping in areas of transition, in tapers, in detours, and in other areas of need as directed by the Project Engineer.
- Materials and placement of temporary pavement markings shall conform to Section 905 of the Standard Specifications. If no pay item exists, temporary markings will be considered incidental to traffic control.

SIGNS

- All signs used for temporary traffic controls shall follow the Department's Standard Plans and the MUTCD. Signs shown in the Standard Plan illustrations are typical and may vary with each specific condition.
- More appropriate signing for a specific condition may be required or substituted with the approval of the Project Engineer and reviewed by the City-Parish Traffic Engineer.
- When projects are separated by less than one mile, they shall be signed as one project.
- At no time shall signs warning against a particular operation be left in place once the operation has been completed or where the obstacle has been removed.
- Signs over Ten (10) sq ft shall be mounted on two post and signs over Twenty (20) sq ft shall be mounted on at least three post.
- Signs shall have a minimum of Two (2) bolts per post. • Permanent signs no longer applicable or in conflict shall be removed or covered with a strong, lightweight,
- opaque material.
- Warning signs used for temporary traffic controls shall meet the following guideline's unless otherwise noted in the plans: (A) size shall be Forty-Eight (48) ft X Forty-Eight (48) ft, (B) see the Departments Standard Specifications and the C-P QPL for sheeting information, (C) a minimum of a Two (2) Ib U-Channel post may be used driven to a minimum depth of Three (3) ft, (D) sign height shall be a minimum of Five (5) ft above the roadway surface unless there is a concern for pedestrians or bicycle traffic in which it shall be a minimum of Seven (7) ft, (E) lateral distance of signs shall be a minimum of Six (6) ft from the edge of shoulder or edge of pavement if no shoulder exist and Two (2) ft from the back of curb in urban areas.
- Vinyl Roll Up signs will be allowed for short term (less than Twelve (12) hours) daytime work provided that they meet all size, color, retroreflectivity requirements, and NCHRP 350.
- Mesh rollup signs shall not be allowed on any project. • All signs shall be removed or covered when no longer
- applicable.
- Contractor shall use caution not to damage existing signs which remain in place. Any signs damaged by work operations shall be replaced at the Contractor's expense.

- Vertical panels, Cones, Drums, and Super Cones, Drums (at standard spacing) and Super Cones (at 1/2 Standard area on the interstate system during daylight hours. Only drums can be used in tapers during night operations.
- match that used on drums and conform to Section 1020-1.2(C) of the Standard Specifications.
- drums, and Type I or II barricades shall not exceed a distance in feet equal to the speed limit when used for speed limit when used for tangent channelization.
- (40) mph.
- are the only device allowed in the taper.

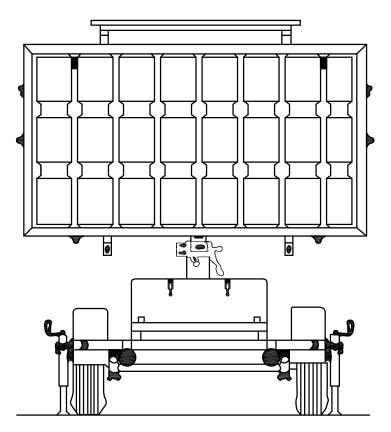


<u>LIGHTING</u>

- All temporary lighting shall be LED.
- Lighting shall supplement barricades that close one or more lanes or that extends across the roadway. A minimum of two lights will be used, but where a travel way ends immediately after a barricade, a minimum of Four (4) lights shall be used. Lighting shall be by approved electrical installations. Battery operated equipment shall conform to NCHRP 350.
- High intensity flashing lights shall be used to mark the first advance warning sign.
- Low intensity flashing lights shall be used to mark all other hazards off the travel way.
- Steady burning lights shall be used on all traffic control devices used for channelizations.
- Flashing units will be mounted as high as possible and battery compartments shall be mounted Six (6) inches from the ground.

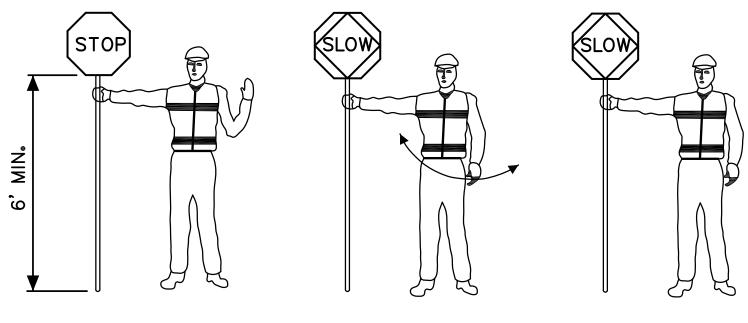
PORTABLE CHANGEABLE MESSAGE SIGNS

- When working within the traveled way, including shoulders and auxiliary lanes. Changeable Message Signs (CMS) shall be used on all Interstate Highways and on all other roadways (where space is available) with an ADT greater than Twenty Thousand (20,000) and should be delineated with retroreflective TTC devices.
- When used in advance of a lane closure or a lane shift, the CMS should be placed on the right hand side of the road a minimum distance of Two (2) miles in advance of the taper for Interstates and to be determined by the City-Parish Traffic Engineer on other roadways.
- CMS messages shall be approved by the City-Parish Traffic Engineer.
- When Portable Changeable Message signs are not being used, they should be removed; if not removed, they should be shielded by guardrail or barriers; or if the previous Two (2) options are not feasible, they should be delineated with retroreflective TTC devices.



<u>FLAGGERS</u>

- All flaggers must be qualified. The contractor shall be responsible for training or assuring that all flaggers are qualified to perform flagging duties. A certificate indicating completion of a flagger training course shall be availabel to the engineer if requested. A Qualified Flagger is one that has attended courses such as those offered by the American Traffic Safety Services Association (ATSSA) or other courses approved by the City-Parish.
- When utilized, a flagger shall use a minimum Eighteen (18) inch sign on a minimum Six (6) ft stop/slow paddle and wear ANSI Class 2 vest during day time operations and ANSI Class 3 ensemble during night operations. In all flagging operations, the flagger must be visible from flagger advance warning sign.
- Flagger stations shall be in a highly visible location far enough in advance of the work site so that approaching traffic will have sufficient distance to reduce speed before entering the project. 200-300 feet is desirable. In urban areas, the advances distance may be decreased.



To Stop Traffic

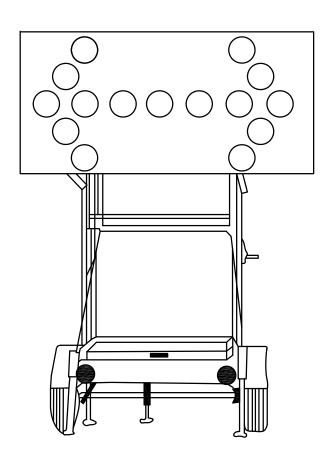
Traffic Proceed

To Alert & Slow Traffic

USE OF HAND SIGN

FLASHING ARROW PANELS

- Flashing Arrow Panels shall be used for lane closures on all facilities with Two (2) or more lanes in a single direction and a speed limit greater than Thirty-Five (35) mph.
- When used, flashing arrow panels should be located on the shoulder at the beginning of the taper.
- Where the shoulder width is limited, the flashing arrow panel should be placed within the closed lane as close to the beginning of the taper as practical.
- All Flashing Arrow Panels shall be Four (4) ft x Eight (8) ft Type C with LED lighting.
- When Flashing Arrow Panels signs are not being used, they should be removed; if not removed, they should be shielded by guardrail or barriers: or if the previous two options are not feasible, they should be delineated with retroreflective TTC devices.



	PROJECT NO.	SHEET 226
	12-AR-INS-014A	220
ALLOWABLE LAP SPLICE FOR U-CHANNELL POST U-channel posts may be spliced where long length are required. The upper section shall overlap the lower section by at least Twenty-Four (24) inches. The botton edge of the upper section of the splice shall be a minimum of Twenty-Four (24) inches above the ground. The spliced sections shall be secured with at least Four (4) 5/16 inch diameter hexhead bolts spaced equally along the splice.	m	
24"MIN. LAP 24"MIN. 24"MIN.		
Front View		
 HIGHWAY-RAIL GRADE CROSSING 1. When a highway-rail grade crossing exists within or upstream of the merging taper and it is anticipated that backups resulting from the lane closure might extend through the highway-rail grade crossing, the TIC zone should be extended so that the merging taper precedes th highway-rail grade crossing exists within the acitivity area, provisions should be made to provide road users operating on the left side of the normal centerline. 3. When a highway-rail grade crossing exists within the activity area, early coordination with the railroad company should occur before work starts. 4. When a highway-rail grade crossing exists within the activity area, a flagger may be used at the highway-rail grade crossing, measured from both sides of the outside rails. 5. A truck-mounted attenuator may be used on the work vehicle and/or the shadow vehicle. 	e y	
DEPARTMEN		
DESCRIPTION BY DESIGNED	ANDDRAINAGEROUGE& PARISHOFDRAWNCHECKED.C.HENGS.EDEL	BATON ROUGE APPROVED I. PARTENHEIMER

905-01

Suggested Advance Warning Sign Spacing					
	Distance Between Signs*				
Road Types	Α	В	С		
Urban (40 mph or less)	100	100	100		
Urban (45 mph or more)	350	350	350		
Rural	500	500	500		

* Distances are shown in feet. The column headings A, B, and C are the dimensions shown in Typical Application Figures. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The third sign is the first one in a three—sign series encountered by a driver approching a TTC zone.)

Formulas for Determining Taper Lengths

Speed Limit (S)	Taper Length (L) Feet		
40 mph or less	$L \frac{WS^2}{60}$		
45 mph or more	L WS		

Where:

L = taper length in feet

W = width of offset in feet

S = posted speed limit in mph.

Meaning of Symbols on Typical Application Diagrams

of Symbol	s on Typical Application Diagrams	Index to Typical Applications		
		Typical Application Description	Typical Application Number	Standard Plan Number
•••••	Arrow panel	Work Outside of Shoulder		
		Work Beyond the Shoulder	TA-1	905-03
$\bigcirc \bigcirc \bigcirc$	Arrow panel support or trailer (shown facing down)	Work on the Shoulder		
000	(shown facing down)	Work on Shoulders	TA-3	905-03
	Changeable message sign or support trailer	Shoulder Work with Minor Encroachment	TA-6	905-04
1 1		Work Within the Traveled Way of Two-Lane Highways		
	Channelizing device	Road Closed with Diversion	TA-7	905-04
		Road Closed with Off-Site Detour	TA-8	905-05
	Crash Cushion	Lane Closure on Two-Lane Road Using Flaggers	TA-10	905-05
		Lane Closure on Two-Lane Road with Low Traffic		300 00
	Direction of temporary traffic detour	Volumes	TA-11	905-06
		Temporary Road Closure	TA-13	905-06
	Direction of traffic	Mobile Operations on Two-Lane Road	TA-17	905-07
		Work Within the Traveled Way of Urban Streets		
	Flagger	Lane Closure on Minor Street	TA-18	905-07
		Detour for One Travel Direction	TA-19	905-08
	High level warning device	Detour for Closed Street	TA-20	905-08
	(Flag tree)	Work Within the Traveled Way at an Intersection and Si	dewalks	
		Multiple Lane Closures at Intersection	TA-25	905-09
	Luminaire	Crosswalk Closures and Pedestrian Detours	TA-29	905-09
		Work Within the Traveled Way of Multi-lane, Non-acces		/s
	Pavement markings that should be removed for a long term project	Interior Lane Closure on Multi-lane Street	TA-30	905-10
		Half Road Closure on Multi-lane, High-Speed Highway	TA-32	905-10
	Sign (shown facing left)	Lane Closure on Divided Highway	TA-33	905-11
		Work in the Vicinity of Highway-Rail Grade Crossings	17 00	
	Surveyor	Work in Vicinity of Highway-Rail Grade Crossing	TA-46	905-11
	Temporary barrier Temporary barrier with warning lights			
	Traffic or Pedestrian signal	Information contained herewith was taken directly from the N	MUTCD 2003 version.	
\bigtriangleup	Truck mounted attenuator			
	Type III Barricade			
	Warning lights	K OF LOOS	STANDARD PLAN NO. 905–02	DATED JULY 3, 2019
	Work space	REG. No. 28190	TEMPORARY TYPICAL	TRAFFIC CON
	Work vehicle	September 10, 2020		RING DIVISION

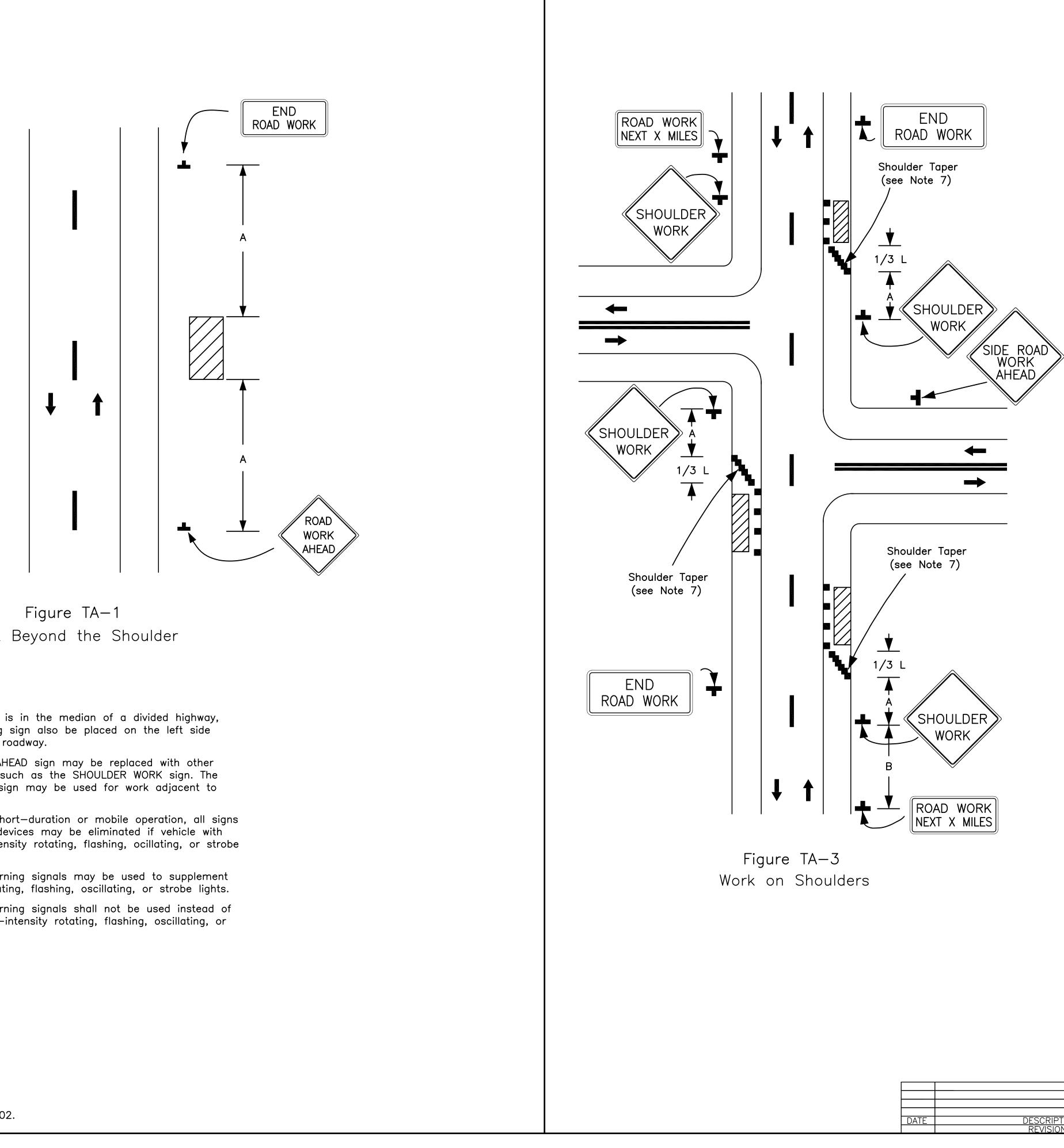
PROJECT NO.

12-AR-MS-014A

SHEET 227

Index to Typical Applications

KINGOLF A. PARTENHEIMER REG. No. 28190		STANDARD 905-		DATED JULY 3, 2019	SHEET NO. 1 OF 1
REGISTERED ENGINEER N September 10, 2020)			RAFFIC CC PPLICATION	
		DEPART	MENT OF	NG DIVISION	TION
	AND DRAINAGE CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE				BATON ROUGE
		DESIGNED	DRAWN	CHECKED	APPROVED
DATE DESCRIPTION REVISIONS	BY	MUTCD	G. CHENG	S. EDEL	I. PARTENHEIMER
				905-02	



Work Beyond the Shoulder

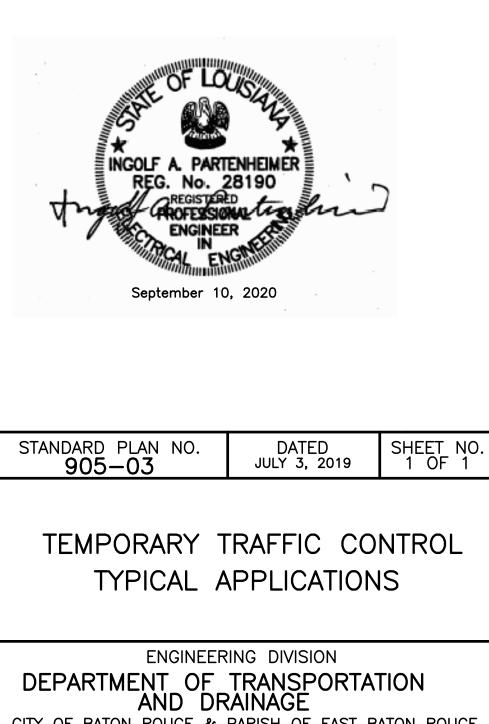
- 1. If the work space is in the median of a divided highway, an advance warnig sign also be placed on the left side of the directional roadway.
- 2. The ROAD WORK AHEAD sign may be replaced with other appropriate signs such as the SHOULDER WORK sign. The SHOULDER WORK sign may be used for work adjacent to the shoulder.
- 3. For short-term, short-duration or mobile operation, all signs and channelizing devices may be eliminated if vehicle with activated high-intensity rotating, flashing, ocillating, or strobe lights is used.
- 4. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.
- 5. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.

This sheet shall be used with Standard Plan No. 905-01 and 905-02.

PROJECT NO.	SHEET
12-AR-MS-014A	228

NOTES:

- 1. A SHOULDER WORK sign should be placed on the left side of the roadway for a divided or one-way street only if the left shoulder is affected.
- 2. The Workers symbol signs may be used instead of SHOULDER WORK signs.
- 3. The SHOULDER WORK AHEAD sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.
- 4. For short-duration operations of Sixty (60) minutes or less, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights is used.
- 5. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.
- 6. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.
- 7. When paved shoulders having a width Eight (8) ft or more are closed, at least one advance warning sign shall be used. In addition, channelizing devices shall be used to close the shoulder in advance to delineate the beginning of the work space and direct vehicular traffic to remain within the traveled way.



		ENGINEERING DIVISION				
		DEPARTMENT OF TRANSPORTATION				
				AND DRA	INAGE	
			CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE			
			DESIGNED	DRAWN	CHECKED	APPROVED
ATE 🛛	DESCRIPTION	BY				
	REVISIONS		MUTCD	G. CHENG	S. EDEL	I. PARTENHEIMER

905-03

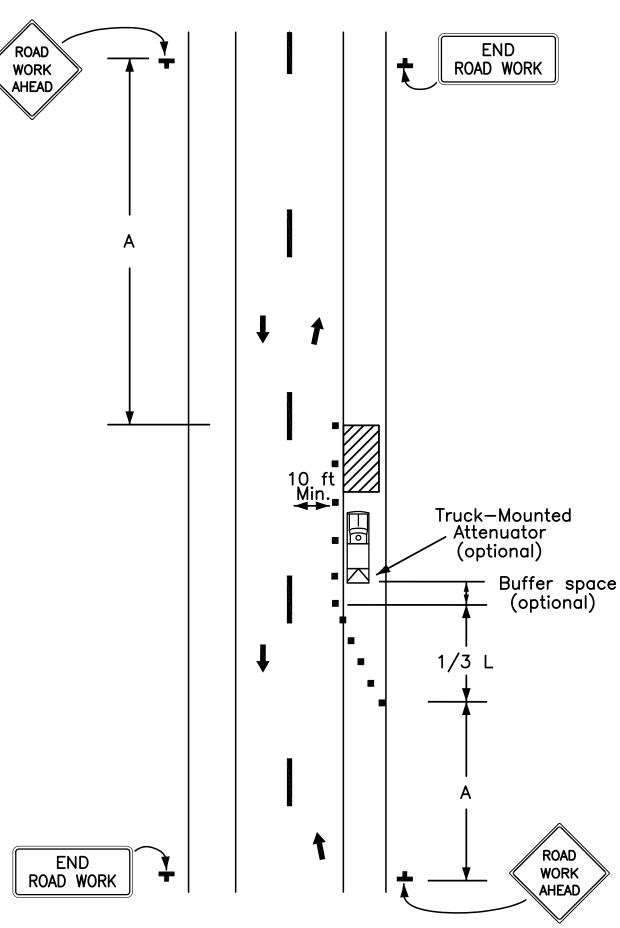
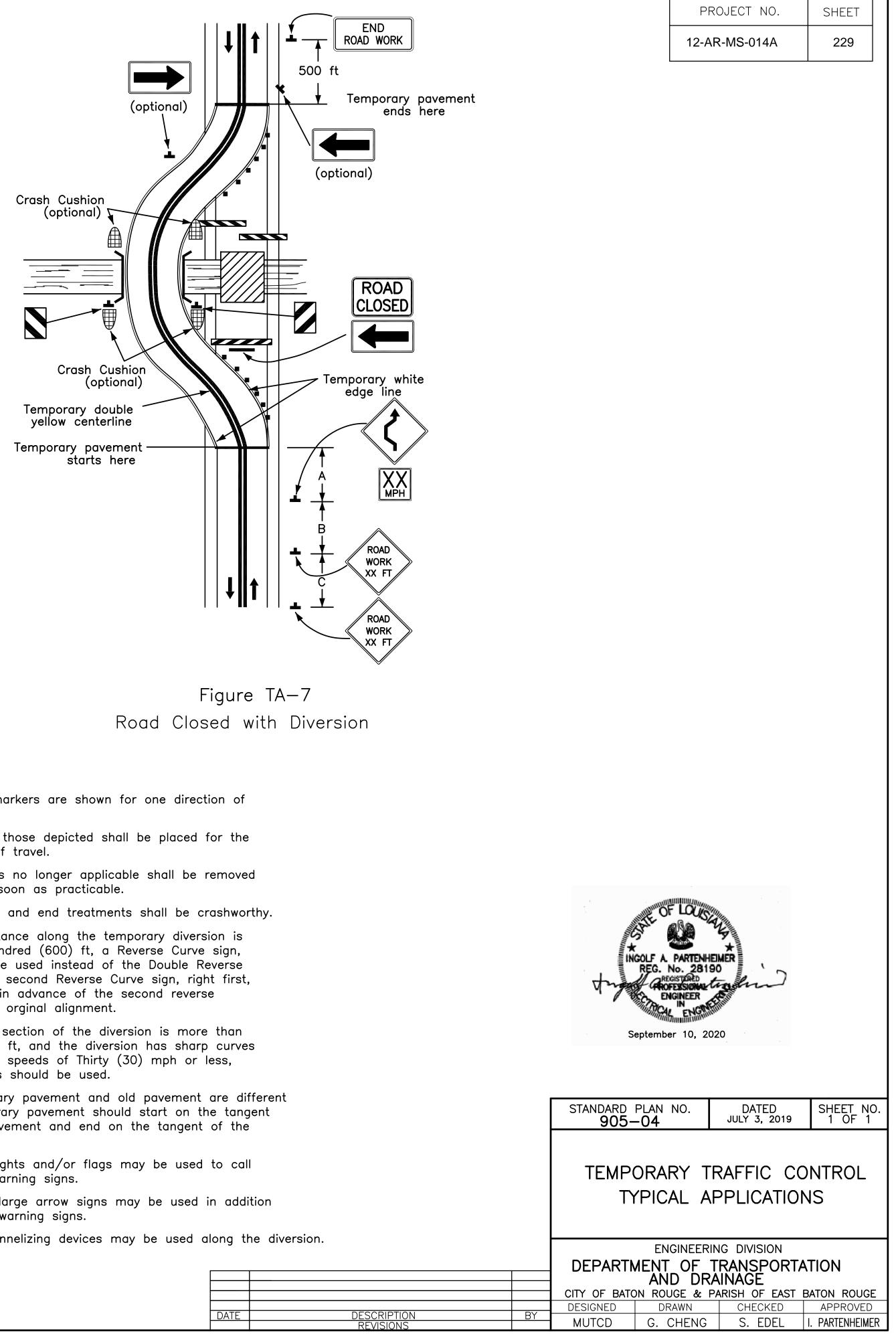


Figure TA-6 Shoulder Work with Minor Encroachment

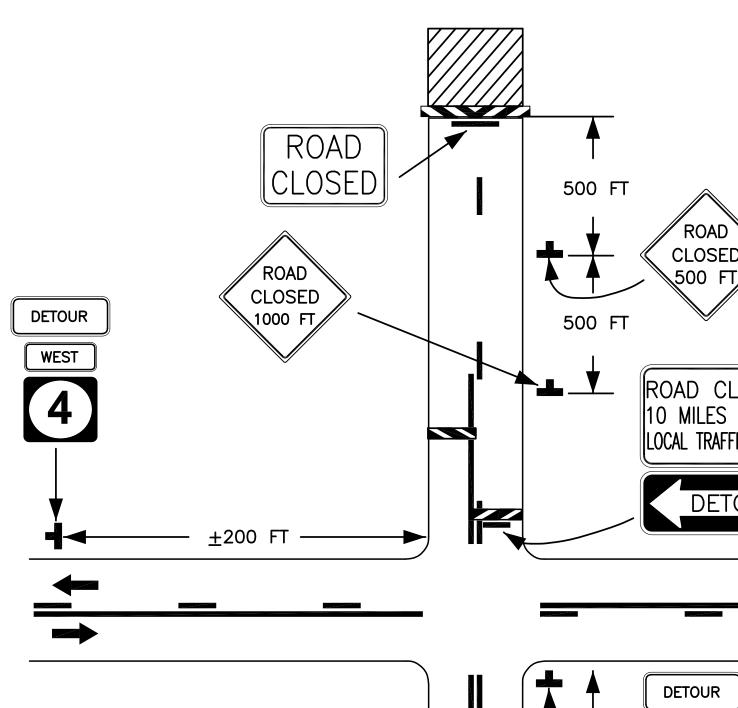
- 1. All lanes should be a minimum of Ten (10) ft in width as measured to the near face of the channelizing devices.
- 2. The treatment shown should be used on a minor road having low speeds. For higher-speed traffic conditions, a lane closure should be used.
- 3. For short-term use on low-volume, low-speed roadways with vehicular traffic that does not include longer and wider heavy commercial vehicles, a minimum lane width of Nine (9) ft may be used.
- 4. Where the opposite shoulder is suitable for carrying vehicular traffic and of adequate witdth, lanes may be shifted by use of closely spaced channelizing devices, provided that the minimum lane width of Ten (10) ft is maintained.
- 5. Additional advance warning may be appropriate, such as a ROAD NARROWS sign.
- 6. Temporary traffic barriers may be used along the work space.
- 7. The shadow vehicle may be omitted if a taper and channelizing devices are used.
- 8. A truck-mounted atenuator may be used on the shadow vehicle.
- 9. For short-duration work, the taper and channelizing devices may be omitted if a shadow vehicle with activated highintensity rotating, flashing, oscillating, or strobe lights is used.
- 10. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.
- 11. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.

This sheet shall be used with Standard Plan No. 905-01 and 905-02.



- 1. Sign and object markers are shown for one direction of travel only.
- 2. Devices similar to those depicted shall be placed for the oposite direction of travel.
- 3. Pavement markings no longer applicable shall be removed or obliterated as soon as practicable.
- ^{4.} Temporary barriers and end treatments shall be crashworthy.
- 5. If the tangent distance along the temporary diversion is more than Six Hundred (600) ft, a Reverse Curve sign, left first, should be used instead of the Double Reverse Curve sign, and a second Reverse Curve sign, right first, should be placed in advance of the second reverse curve back to the orginal alignment.
- 6. When the tangent section of the diversion is more than Six Hundred (600) ft, and the diversion has sharp curves with recommended speeds of Thirty (30) mph or less, Reverse Turn signs should be used.
- 7. Where the temporary pavement and old pavement are different colors, the temporary pavement should start on the tangent of the existing pavement and end on the tangent of the existing pavement.
- 8. Flashing warning lights and/or flags may be used to call attention to the warning signs.
- 9. On sharp curves, large arrow signs may be used in addition to other advance warning signs.
- 10. Delineators or channelizing devices may be used along the diversion.

⁹⁰⁵⁻⁰⁴



1000 FT DETOUR 500 FT DETOU **1500** F

Figure TA-8 Roads Closed with Off-Site Detour

NOTES:

- 1. Regulatory traffic control devices should be modified as needed for the duration of the detour.
- 2. If the road is opened for some distance beyond th intersection and/or there are significant orgin/desti points beyond the intersection, the ROAD CLOSED a DETOUR signs on Type III Barricades may be locate the edge of the traveled way.
- 3. A Route Sign Directional assembly may be placed far left corner of the intersection to augment or re the one shown on the near right corner.
- 4. Flashing warning lights and/or flags may be used attention to the advance warning signs.
- 5. Cardinal direction plaques may be used with route

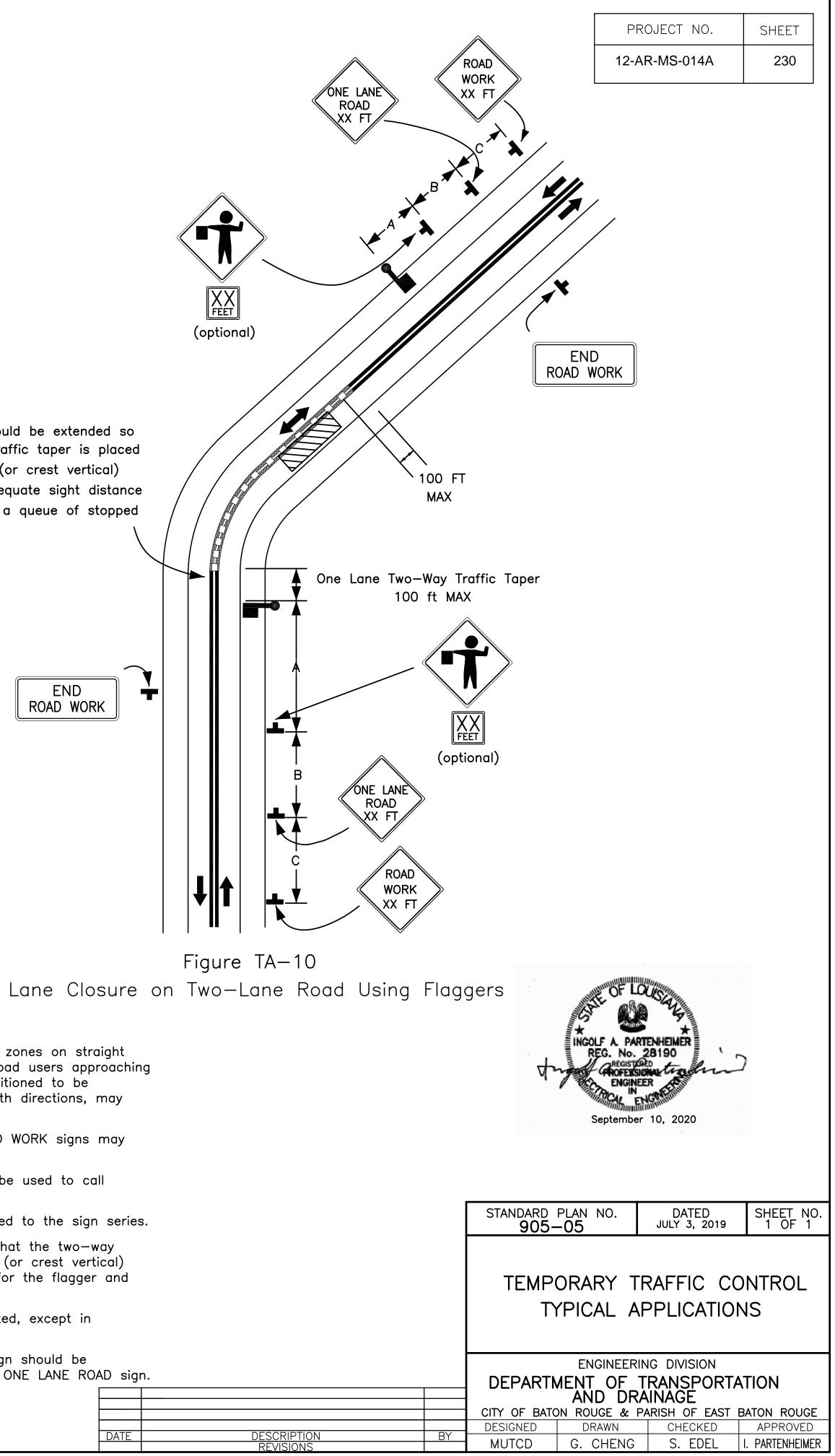
This sheet shall be used with Standard Plan No. 905-01 and 905-02.

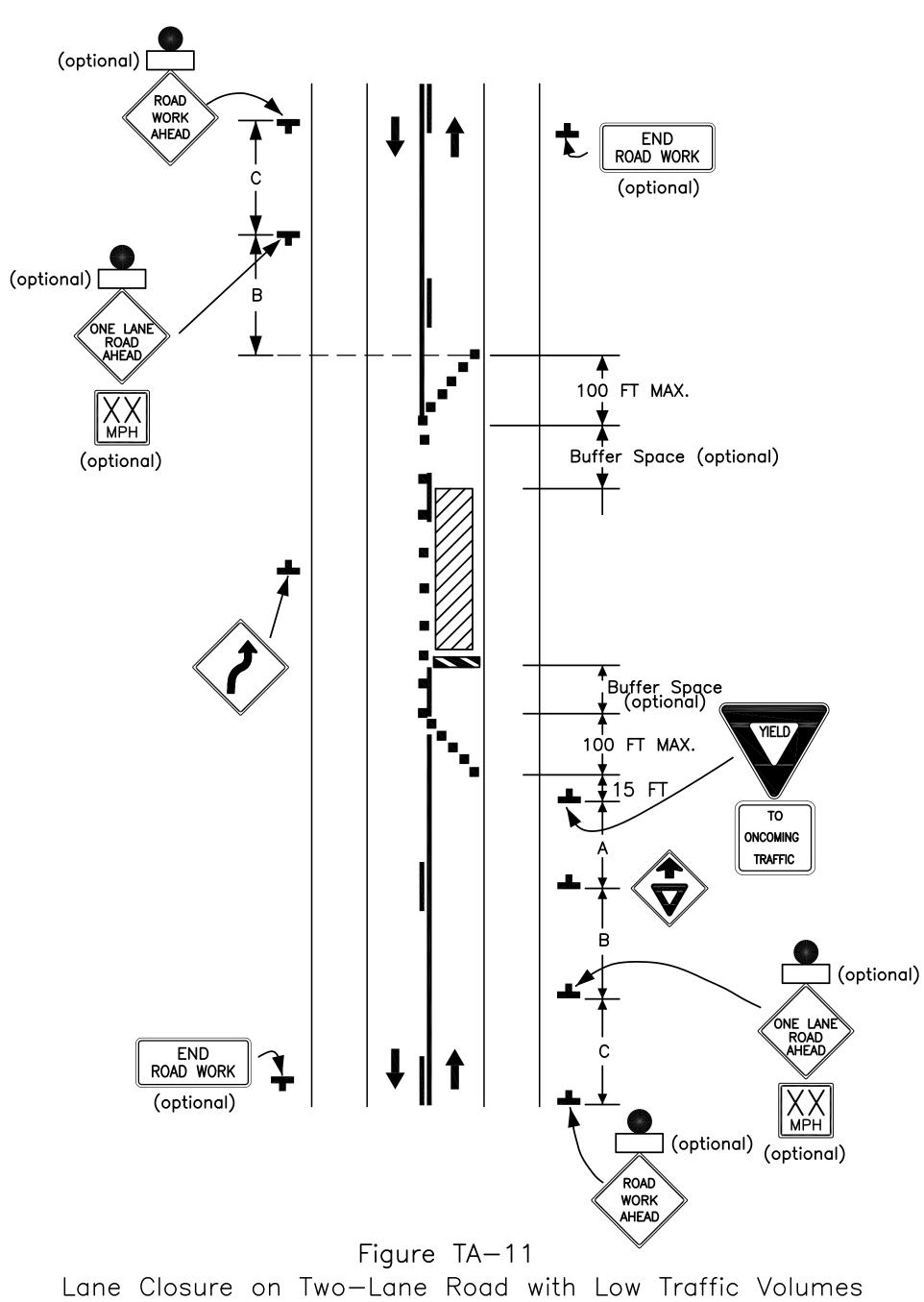
LOSED AHEAD IC ONLY	
OUR	
	Note: The buffe that the
	before of curve to
	for the vehicles.
JR	
	NOTES:
d	1. For low-volume situations with roadways where the flagger is
ne ination	from both directions, a single visible to road users approach be used.
ind ind ed at	2. The ROAD WORK AHEAD and the omitted for short-duration
on the	3. Flashing warning lights and/or attention to the advance warn
eplace	a. A BEPREPARED TO STOP sign
to call signs.	4. The buffer space should be ex traffic taper is placed before curve to provide adequate sign a queue of stopped vehicles
	a queue of stopped vehicles. 5. At night, flagger stations shall
	emergencies.

fer space should be extended so two-way traffic taper is placed a horizontal (or crest vertical) to provide adequate sight distance flagger and a queue of stopped

END ROAD WORK

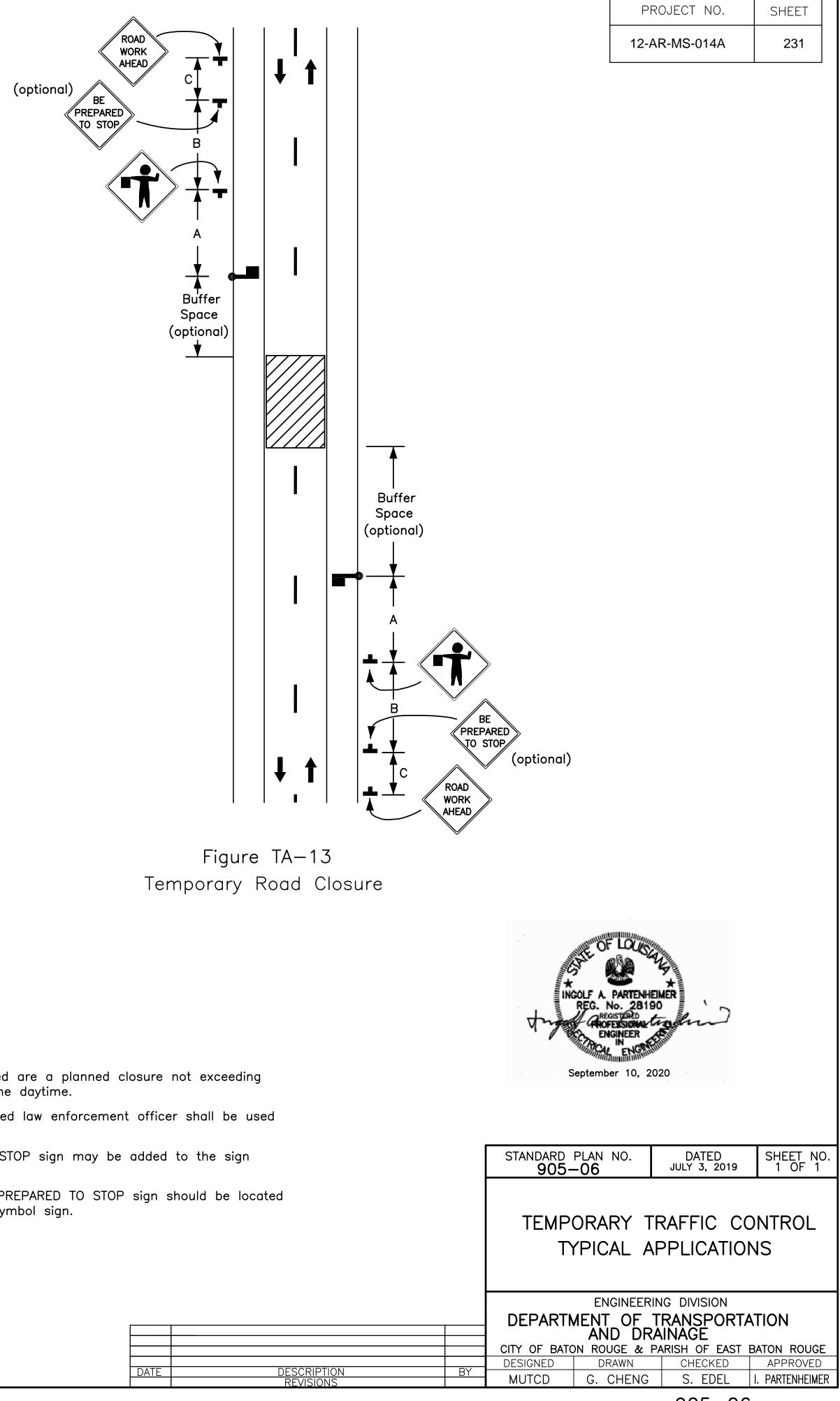
- short work zones on straight visible to road users approaching flagger, positioned to be hing from both directions, may
- he END ROAD WORK signs may operations.
- flags may be used to call ning signs.
- may be added to the sign series.
- extended so that the two-way a horizontal (or crest vertical) ght distance for the flagger and
- be illuminated, except in
- 6. When used, the BE PREPARED TO STOP sign should be located between the Flagger sign and the ONE LANE ROAD sign.





- 1. This TTC zone application may be used as an alternate to the TTC application shown in TA-10 (using flaggers) when the following conditions exist:
- a. Vehicular traffic volume is such that sufficient gaps exist for vehicular traffic that must yield.
- b. Road users from both directions are able to see approaching vehicular traffic through and beyond the work site and have sufficient visibility of approaching vehicles.
- 2. The Type B flashing warning lights shall be placed on the ROAD WORK AHEAD and the ONE LANE ROAD AHEAD signs whenever a night lane closure is necessary.

This sheet shall be used with Standard Plan No. 905-01 and 905-02.



- 1. Conditions represented are a planned closure not exceeding 20 minutes during the daytime.
- 2. A flagger or uniformed law enforcement officer shall be used for this application.
- 3. A BE PREPARED TO STOP sign may be added to the sign series.
- 4. When used, the BE PREPARED TO STOP sign should be located before the Flagger symbol sign.



⁹⁰⁵⁻⁰⁶

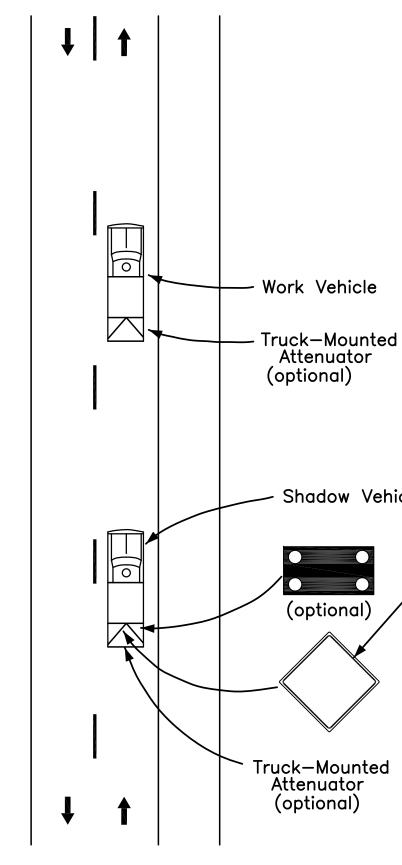


Figure TA-17

Mobile Operations on Two-Lane Road

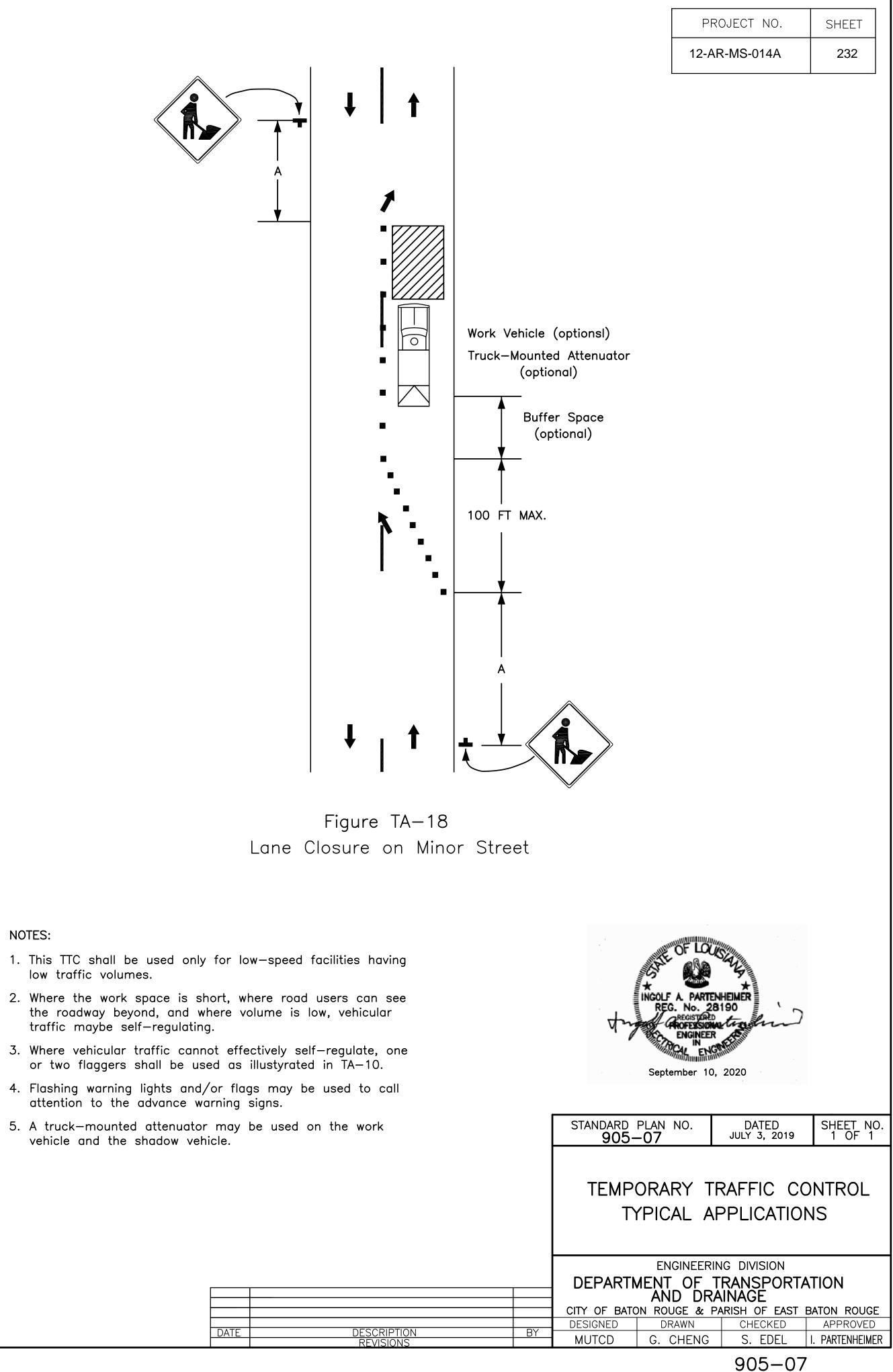
NOTES:

- 1. Vehicle-mounted signs shall be mounted in a manner such that they are not obscured by equipment or supplies. Sign legends on vehicle-mounted signs shall be covered or turned from view when work is not in progress.
- 2. Shadow and work vehicles shall display high-intensity rotating, flashing, oscillating, or strobe lights.
- 3. If an arrow panel is used, it shall be used in the caution mode.
- 4. Where practical and when needed, the work and shadow vehicles should pull over periodically to allow vehicular traffic to pass.
- 5. Whenever adequate stopping sight distance exists to the rear, the shadow vehicle should maintain the minmum distance from the work vehicle and proceed at the same speed. The shadow vehicle should slow down in advance of vertical or horzontal curves that restrict sight distance.
- 6. The shadow vehicles should also be equipped with two highintensity flashing lights mounted on the rear, adjacent to the sign.
- 7. The distance between the work and shadow vehicles may vary according to terrain, paint drying time, and other factors.
- 8. Additional shadow vehicles to warn and reduce the speed of oncoming or opposing vehicular traffic may be used. Law enforcement vehicles may be used for this purpose.
- 9. A truck-mounted attenuator may be used on the shadow vehicle or on the work vehicle.
- 10. If the work and shadow vehicles cannot pull over to allow vehicular traffic to pass frequently, a DO NOT PASS sign may be placed on the rear of the vehicle blocking the lane.
- 11. Shadow vechicles are used to warn motor vehicle traffic of the operation ahead.
- 12. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillatng, or strobe lights.

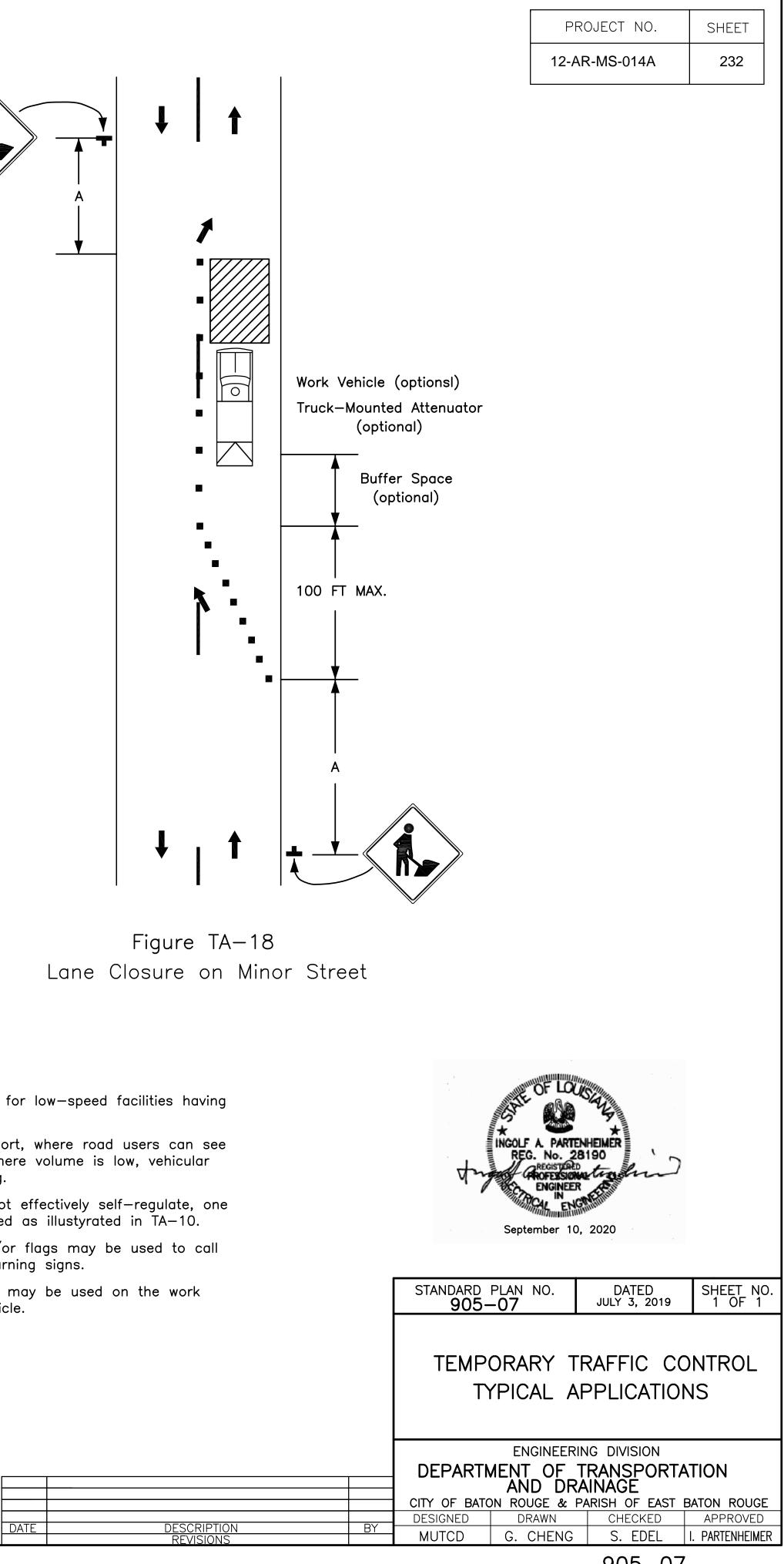
This sheet shall be used with Standard Plan No. 905-01 and 905-02.

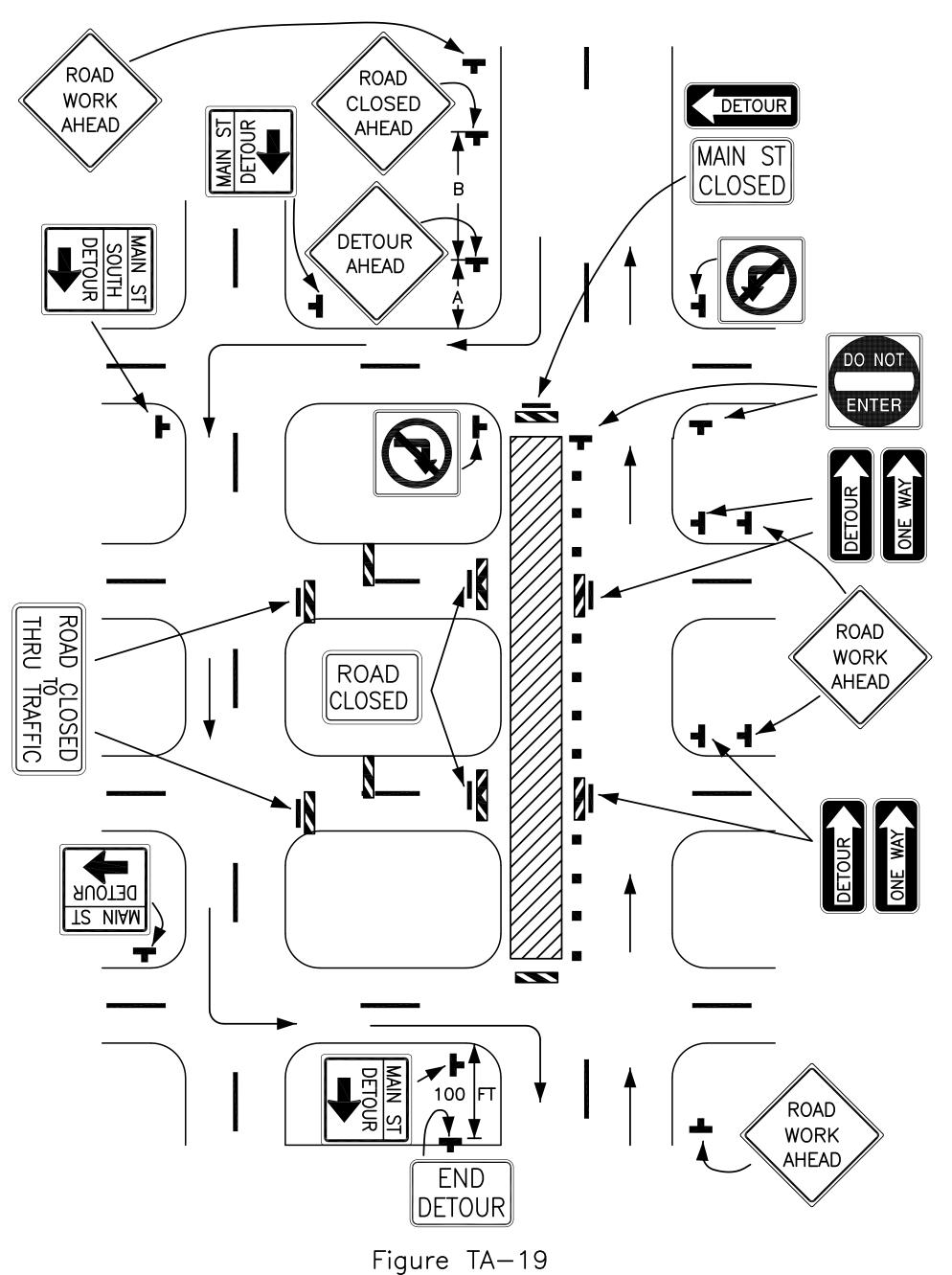
· Shadow Vehicle

Use sign shape and legend appropriate to the type of work



- low traffic volumes.
- traffic maybe self—regulating.
- attention to the advance warning signs.
- vehicle and the shadow vehicle.



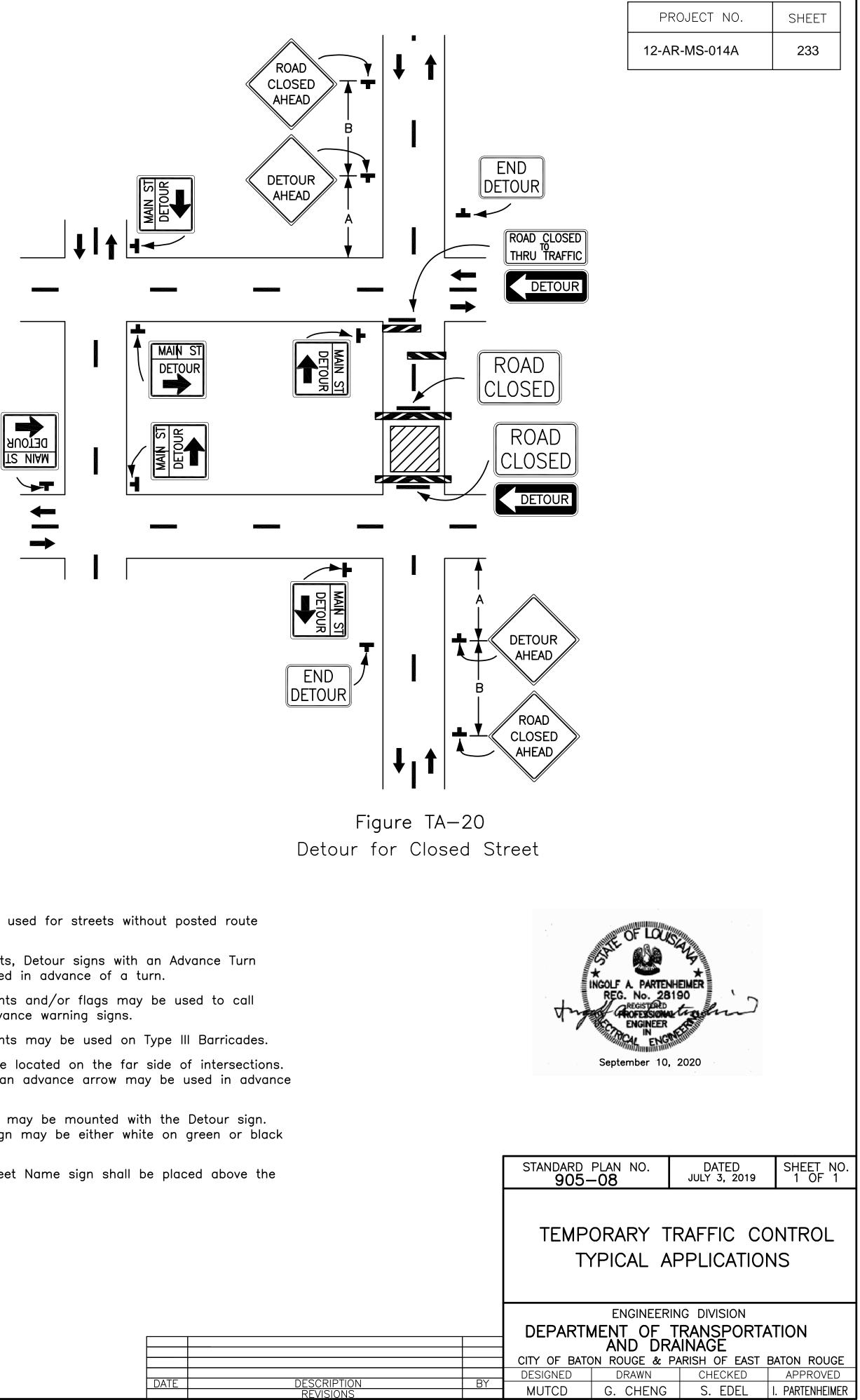


Detour for One Travel Direction

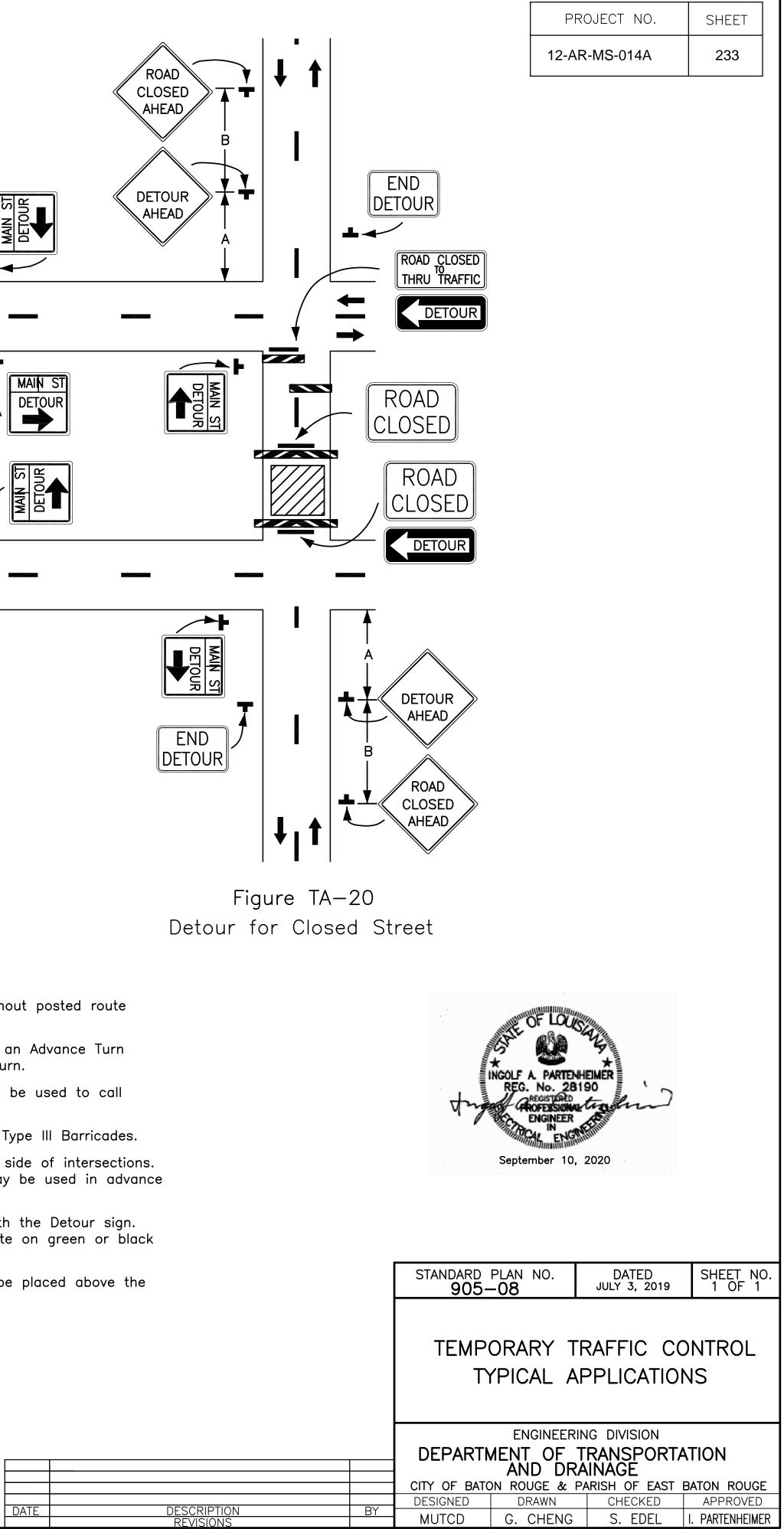
NOTES:

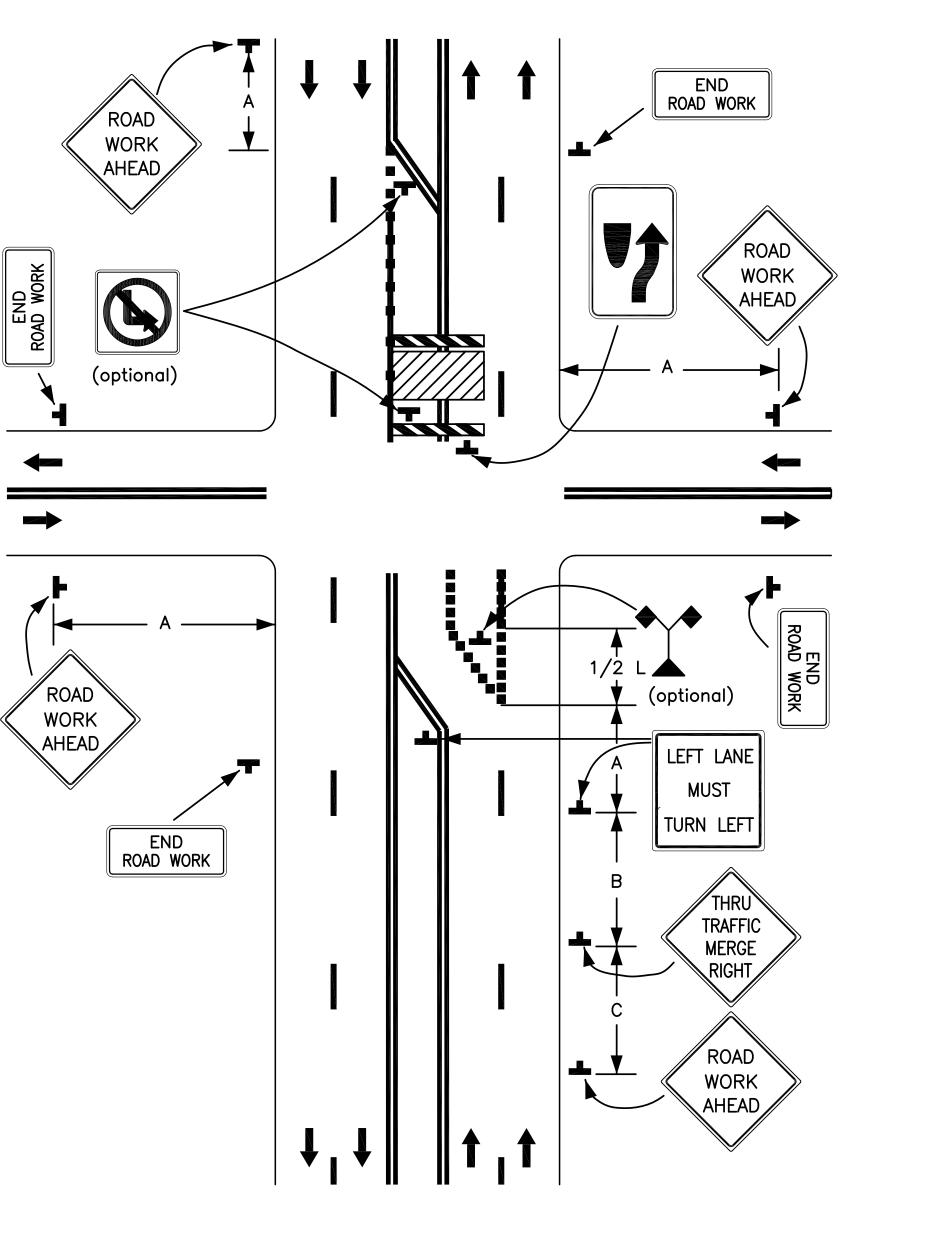
- 1. This plan should be used for streets without posted route numbers.
- 2. On multi-lane streets, Detour signs with an Advance Turn Arrow should be used in advance of a turn.
- 3. The STREET CLOSED legend may be used in place of ROAD CLOSED.
- 4. Additional DO NOT ENTER signs may be used at intersections with intervening streets.
- 5. Warning lights may be used on Type III Barricades.
- 6. Detour signs may be located on the far side of intersections.
- 7. A Street Name sign may be mounted with the Detour sign. The Street Name sign may be either white on green or black on orange.
- 8. When used, the Street Name sign shall be placed above the Detour sign.

This sheet shall be used with Standard Plan No. 905-01 and 905-02.



- 1. This plan should be used for streets without posted route numbers.
- 2. On multi-lane streets, Detour signs with an Advance Turn Arrow should be used in advance of a turn.
- 3. Flashing warning lights and/or flags may be used to call attention to the advance warning signs.
- 4. Flashing warning lights may be used on Type III Barricades.
- 5. Detour signs may be located on the far side of intersections. A Detour sign with an advance arrow may be used in advance of a turn.
- 6. A Street Name sign may be mounted with the Detour sign. The Street Name sign may be either white on green or black on orange.
- 7. When used, the Street Name sign shall be placed above the Detour sign.





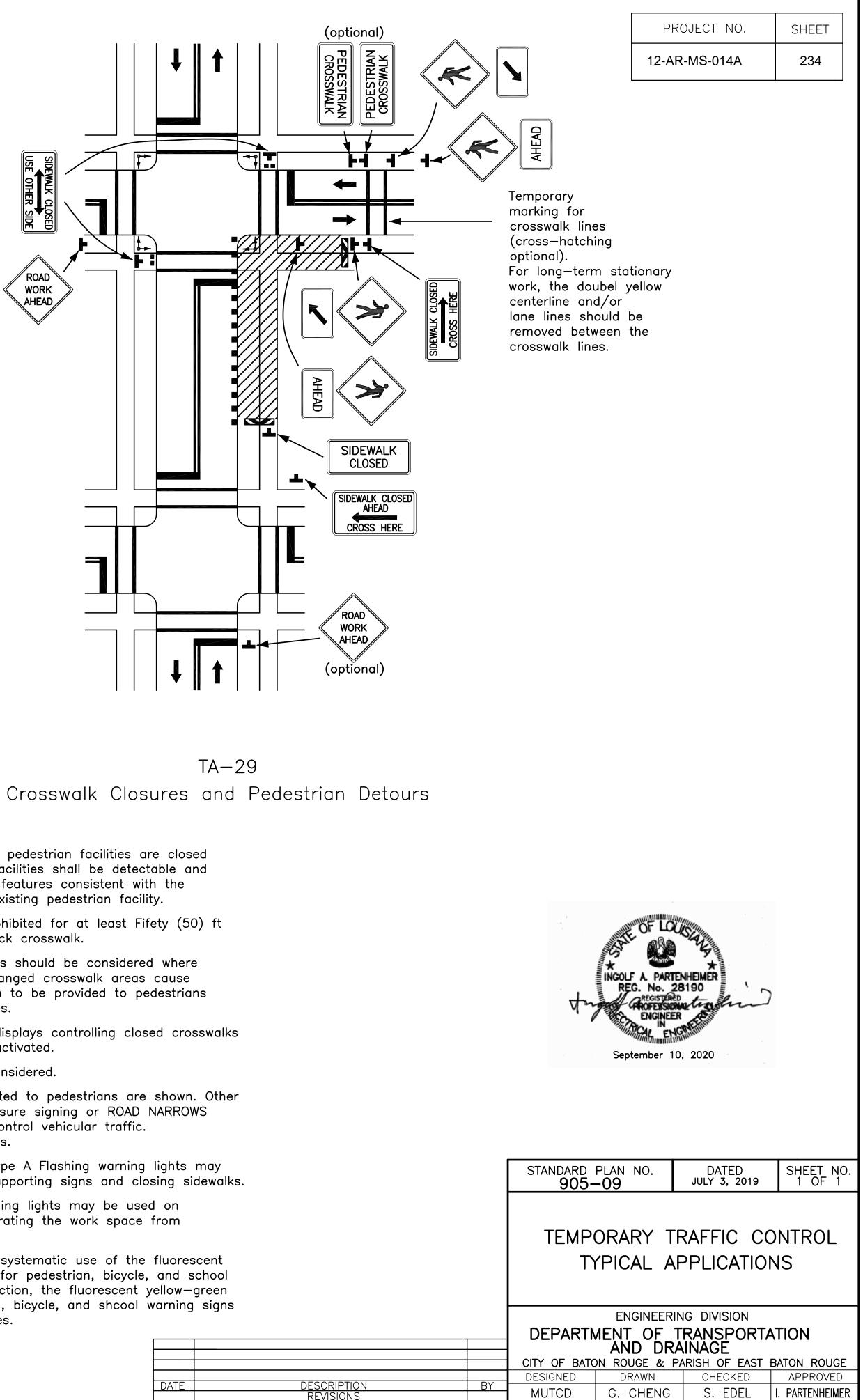
TA-25 Multiple Lane Closures at Intersection

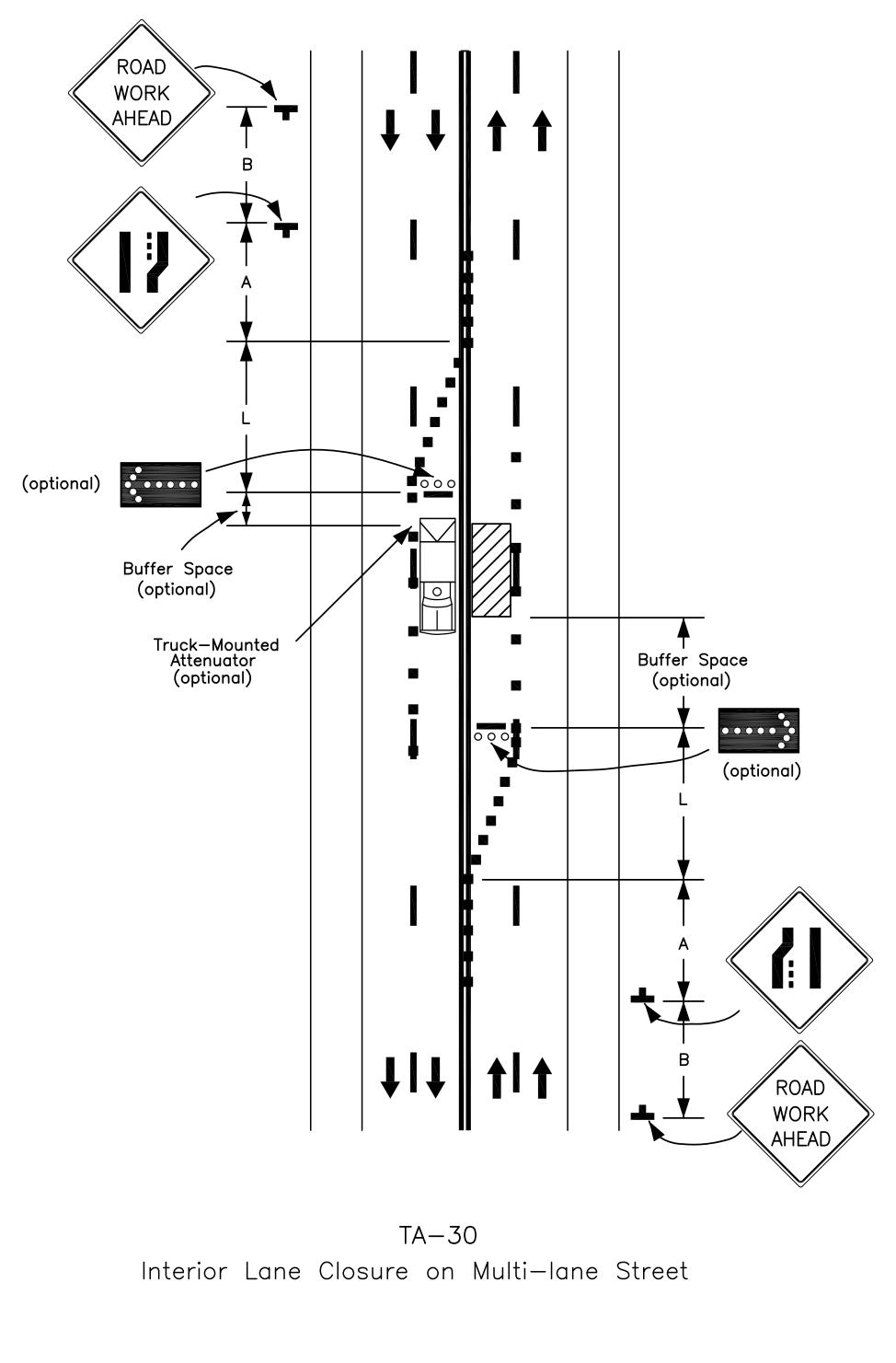
- 1. If the work space extends across a crosswalk, the crosswalk should be closed using the information and devices shown in Figure TA-14.
- 2. If the left through lane is closed on the near-side approach, the LEFT LANE MUST TURN LEFT sign should be placed in the median to discurage through vehicular traffic from entering the left-turn bay.
- 3. The normal procedure is to close on the near side of the intersection any lane that is not carried through the intersection. If the left-turning movement that normally uses the closed turn bay is small and/or the gaps in opposing vehicular traffic are frequent, left turns may be permitted on that approach.
- 4. Flashing warning lights and/or flags may be used to call attention to the advance warning signs.

This sheet shall be used with Standard Plan No. 905-01 and 905-02.

CLOSED ER SIDE ROAD WORK AHEAD ____

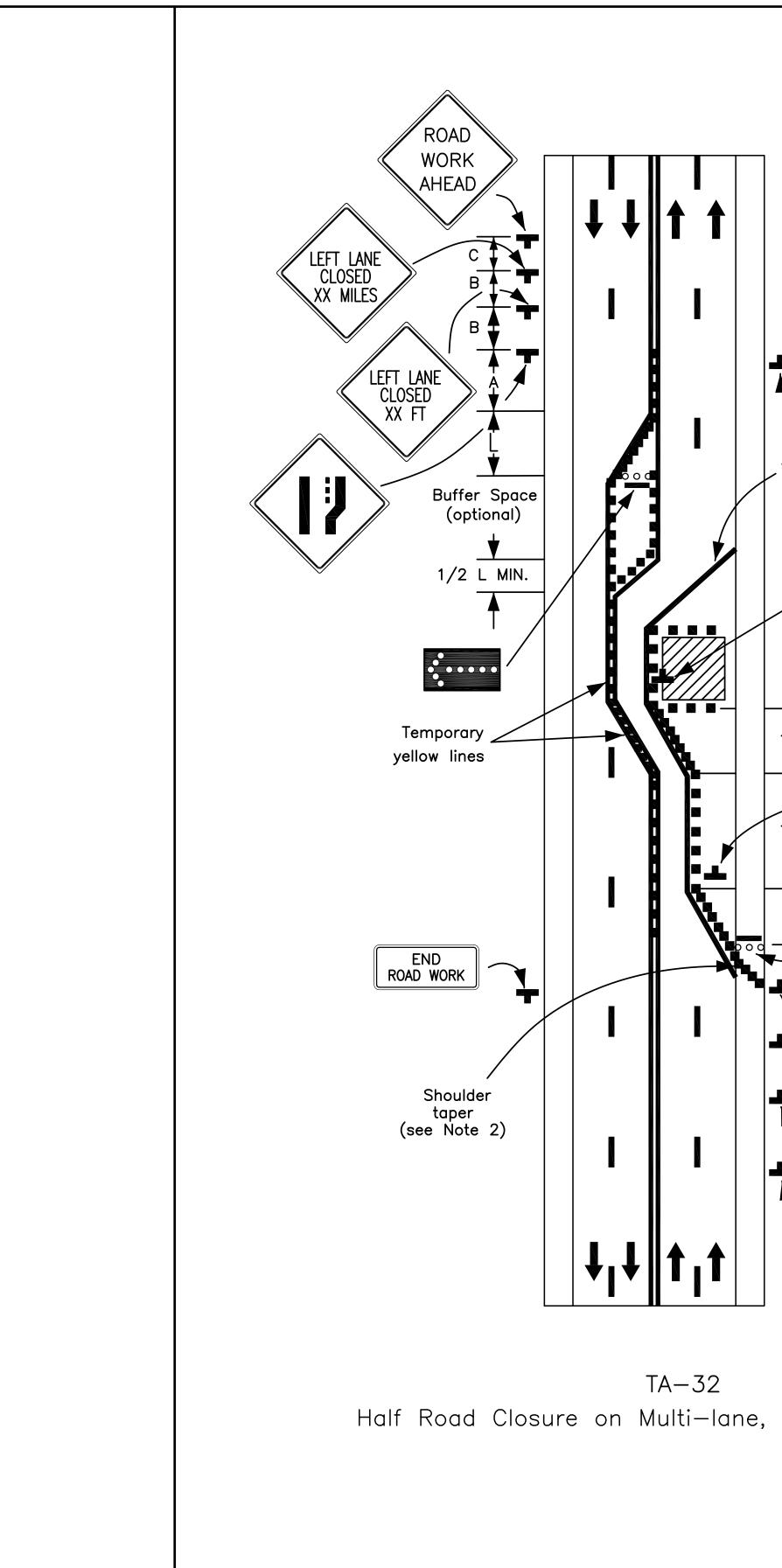
- 1. When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.
- 2. Curb parking shall be prohibited for at least Fifety (50) ft in advance of the midblock crosswalk.
- 3. Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.
- 4. Pedestrian traffic signal displays controlling closed crosswalks should be covered or deactivated.
- 5. Street lighting may be considered.
- 6. Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS signs, may be used to control vehicular traffic. who have visual disabilities.
- 7. For nighttime closures, Type A Flashing warning lights may be used on barricades supporting signs and closing sidewalks.
- 8. Type C Steady-Burn warning lights may be used on channelizing devices separating the work space from vehicular traffic.
- 9. In order to maintain the systematic use of the fluorescent yellow-green background for pedestrian, bicycle, and school warning signs in a jurisdiction, the fluorescent yellow-green background for pedestrian, bicycle, and shcool warning signs may be used in TTC zones.





- 1. This information applies to low-speed, low-volume urban streets. Where speed or volume is higher, additional signing such as LEFT LANE CLOSED XX FT should be used between the signs shown.
- 2. The closure of the adjacent interior lane in the opposing direction may not be necessary, depending upon the activity being performed and the work space needed for the operation.
- 3. Shadow vehicles with a truck-mounted attenuator may be used.

This sheet shall be used with Standard Plan No. 905-01 and 905-02.



DATE

			PROJECT NO.	SHEET
			12-AR-MS-014A	235
END ROAD WORK	obliterate and show to clearly and inter remove be made 2. When pa more are close the vehicular 3. Where cl markings S is the 4. If the to more the first, show sign, and be place the origi	ed as soon as pro rt-term situations, y delineate the te rmediate-term situ and restore paven e dominant by usi ved shoulders hav e closed, channeli e shoulder in advo traffic to remain hannelizing devices s, the maximum s speed in mph. ingent distance alo an Six Hundred (6 buld be used inste d a second Revers ed in advance of the nal alignment. lights may be use	nger applicable shall be re- actical. Except for interma- , temporary markings shall emporary travel path. For- uations where it is not fea- nent markings, channelizati ng a very close device spo- ving a width of Eight (8) f zing devices should be use ance of the merging taper within the traveled way. Is are used instead of pave spacing should be 0.5 S fea- ong the temporary diversio 500) ft, a Reverse Curve se ead of the Double Reverse se Curve sign, right first, the second reverse curve to ed to supplement channeliz	ediate-term be provided short-term asible to on shall acing. t or ed to to direct ement eet where n is sign, left Curve should back to
1/2 L MIN. (option L A A				
RIGHT LANE CLOSED XX FT C C RIGHT LA CLOSED XX FT RIGHT LA CLOSED XX MILE ROAD WORK AHEAD		4	OF LOUS INGOLF A. PARTENHEIMER REG. No. 28190 REGISTERED HOFESSION ENGINEER IN September 10, 2020	2
e, High-Speed Hig	ghway			
			PLAN NO. DATED	SHEET NO 1 OF 1
		TEM	5–10 PORARY TRAFFIC C TYPICAL APPLICATIC	ONTROL
			ENGINEERING DIVISION TMENT OF TRANSPOR AND DRAINAGE	TATION
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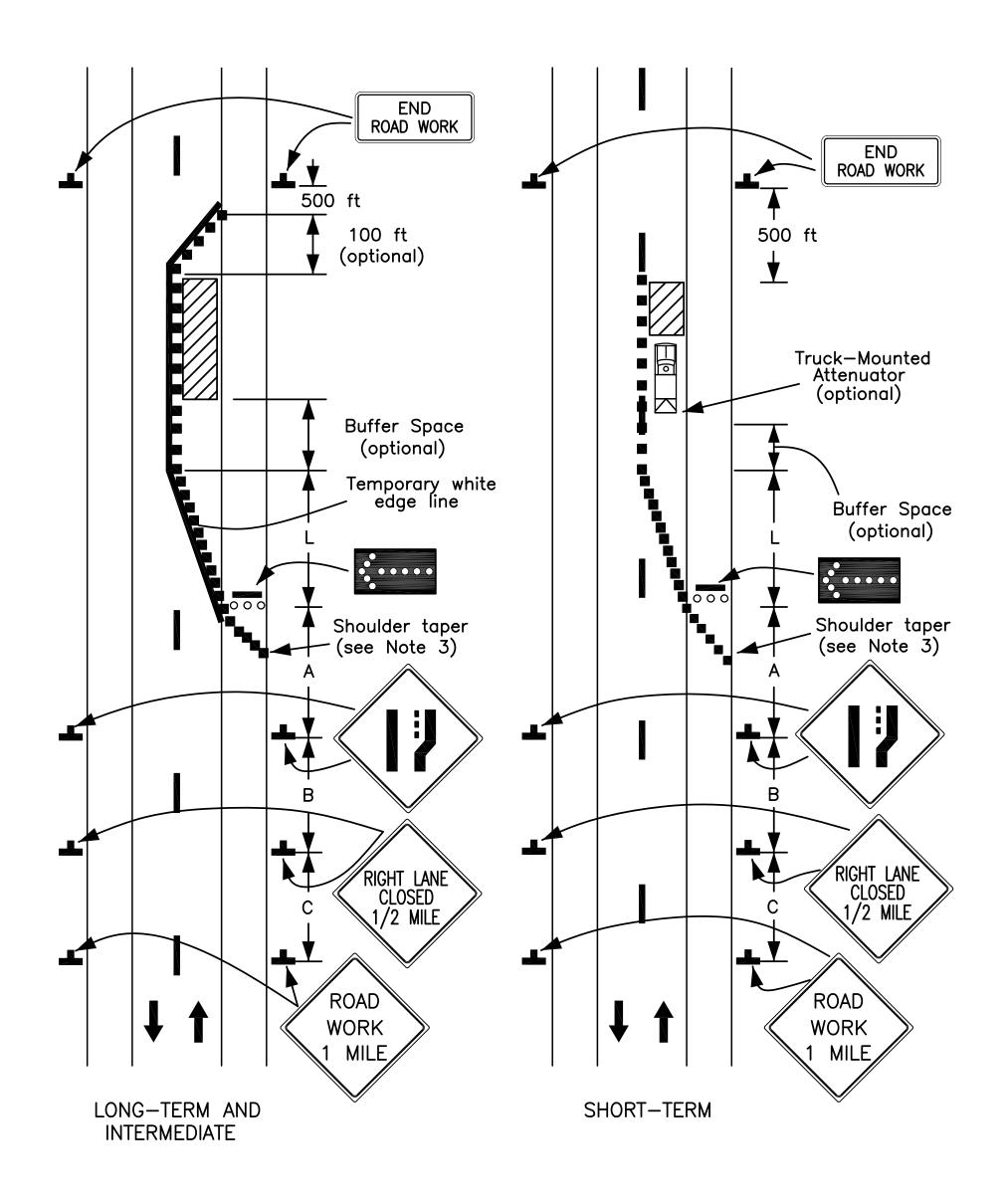


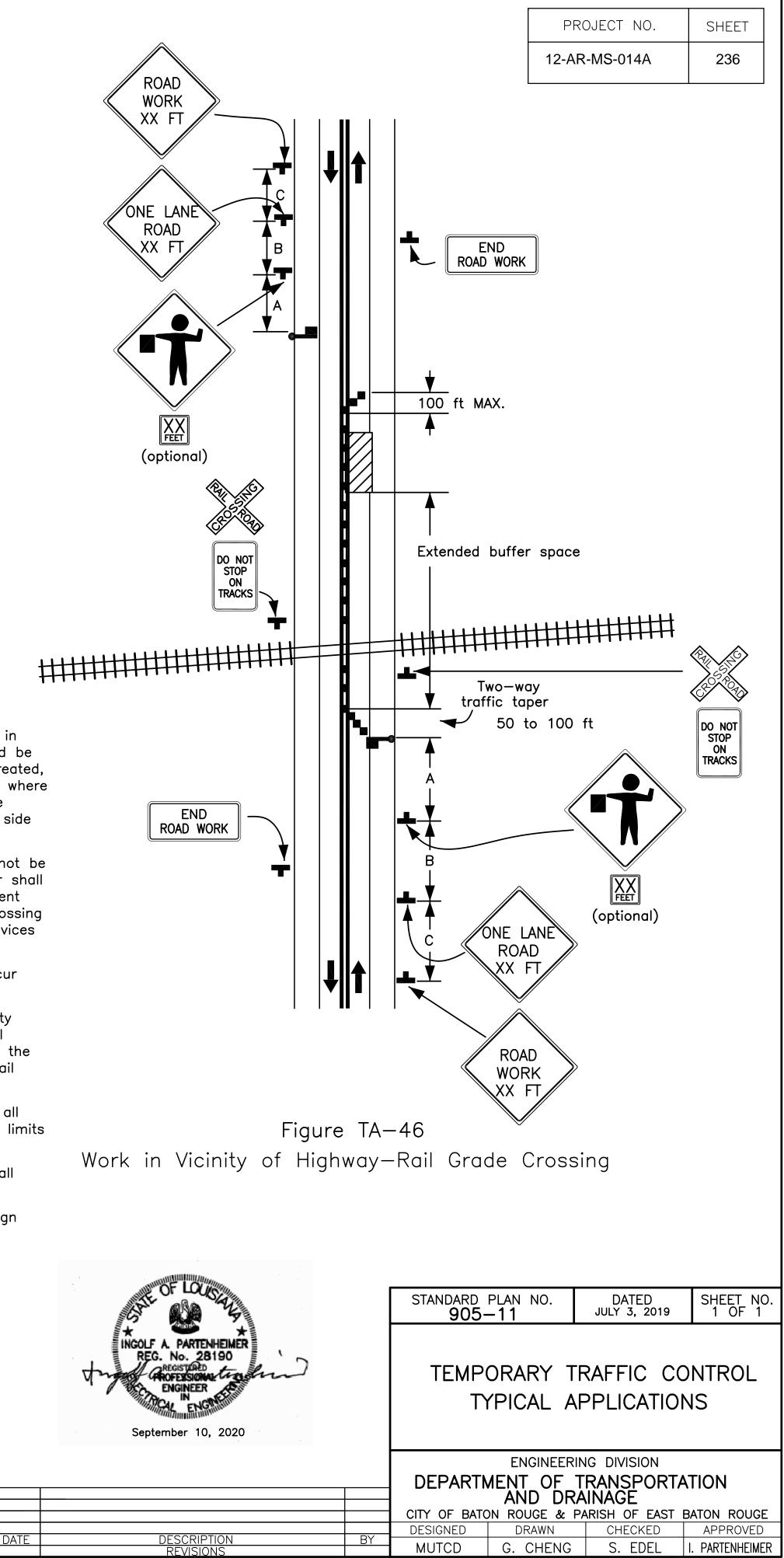
Figure TA-33 Lane Closure on Divided Highway

NOTES:

- 1. This information also shall be used when work is being performed in the lane adjacent to the median on a divided highway. In this case, the LEFT LANE CLOSED signs and the corresponding Lane Ends signs shall be substituted.
- 2. When a side road intersects the higway within the TTC zone, additional TTC devices shall be placed as needed.
- 3. When paved shoulders having a width of Eight (8) ft or more are closed, channelizing devices should be used to close the shoulder in advance of the merging taper to direct vechicular traffic to remain within the traveled way.
- 4. A truck-mounted attenuator may be used on the work vchicle and/or shadow vehicle.
- 5. Where conditions permit, restricting all vehicles, equipment, workers, and their activities to one side of the roadway might be advantageous.

This sheet shall be used with Standard Plan No. 905-01 and 905-02.

- 1. When highway-rail grade crossings exit either within or in the vicinity of roadway work activities, extra care should be taken to minimize the probability of conditions being created, either by lane restrictions, flagging or other operations, where vehicles might be stopped within the highway-rail grade crossing, considered as being Fifteen (15) ft on either side of the closest and farthest rail.
- 2. If the queuing of vehicles across active rail tracks cannot be avoided, a uniformed law enforcement officer or flagger shall be provided at the highway-rail grade crossing to prevent vehicles from stopping within the highway-rail grade crossing (as described in Note 1), even if automatic warning devices are in place.
- 3. Early coordination with the railroad company should occur before work starts.
- 4. In the example depicted, the buffer space of the activity area should be extended up stream of the highway-rail grade crossing (as shown) so that a queue created by the flagging operation will not extend across the highway-rail grade crossing.
- 5. The DO NOT STOP ON TRACKS sign should be used on all approaches to a highway-rail grade crossing within the limits of a TTC zone.
- 6. Flashing warning lights and/or flags may be used to call attention to the advance warning signs.
- 7. A BE PREPARED TO STOP sign may be added to the sign series.
- 8. When used, the BE PREPARED TO STOP sign should be located before the Flagger symbol sign.
- 9. At night, flagger stations shall be illuminated, except emergencies.



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