

**CITY OF BATON ROUGE  
PARISH OF EAST BATON ROUGE**

April 24, 2025

**ADDENDUM NO. 1**

**TO: ALL BIDDERS**

**SUBJECT: JONES CREEK ROAD EXTENSION CLEARING AND EARTHWORK  
AIRLINE HWY. TO TIGER BEND RD.**

**CITY-PARISH PROJECT No. 12-CS-HC-0060A**

**BID DATE: TUESDAY, APRIL 29, 2025**

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

**FINAL PLANS**

**SHEET 1**

Replace Plan Sheet 2, entitled Summary of Estimated Quantities, with the attached Plan Sheet 2. Revised 4/22/2025. (Attachment A).

**SHEET 2a**

Replace Plan Sheet 2a, entitled Summary Tables, with the attached Plan Sheet 2a. Revised 4/22/2025. (Attachment A).

**SHEET 3a**

Replace Plan Sheet 3a, entitled Typical Section & Details, with the attached Plan Sheet 3a. Revised 4/22/2025. (Attachment A).

**STANDARD PLANS**

Add Plan Sheets 101 thru 136, various City-Parish Standard Plans, attached. (Attachment A)

**RESPONSES TO BIDDER QUESTIONS**

**QUESTION 1:**

Would we be able to burn the clearing and grubbing material on site or would we have to haul off all material offsite?

**RESPONSE:**

Burning will not be allowed.

**QUESTION 2:**

Sht 2a: The summary of drainage structures calls for 4 EA - 702-31, but the SOI shows these to be 702-20. Please clarify what is required.

**RESPONSE:**

702-20 are required. See plan revisions included in this addendum.

**QUESTION 3:**

Sht 2a: The earthwork table shows 141,526 CY of excavation. Can we use all of this material for

embankment, with the exception of the 1,454 CY of unsuitable material?

RESPONSE:

Excavated material is to be removed from the project in accordance with Specifications Section 203.  
Excavated material will not be incorporated into the project.

**QUESTION 4:**

Sht 2a: For the 150,940 CY of embankment, how much of this is surcharge?

RESPONSE:

This was not broken out as the intent is that the surcharge is the same material as the embankment.

**QUESTION 5:**

Please confirm that no material is to be cut and removed after clearing and grubbing is complete, with the exception of the designated unsuitable above.

RESPONSE:

Correct.

**QUESTION 6:**

Sht 3a: Note 6 calls for the removal of "High Fill Embankment". Is this to be paid under General Excavation?

RESPONSE:

Note 6 on sheet 3a has been revised as part of the plan revisions in this addendum.

**QUESTION 7:**

Sht 3a: Should the settlement period last longer than the anticipated 9 months, will the contractor be reimbursed for the additional surveying and time?

RESPONSE:

Refer to Specifications Section 203 and plans notes related to surcharge.

**QUESTION 8:**

Sht 3a: How many inches are anticipated for settlement?

RESPONSE:

Up to 6 inches.

**QUESTION 9:**

Sht 4 & 7: Access to the project is obstructed by existing ditches. Can a pay item be provided for storm drain pipe in these areas?

RESPONSE:

Note 9 on sheet 2 has been added as part of the plan revisions in this addendum.

**QUESTION 10:**

SP39: Section 203-13. Typically the Owner covers all testing. Please verify that the contractor is to provide testing separate from the Owner.

RESPONSE:

The cost of Quality Control is the responsibility of the contractor and will not be measured for payment.

**QUESTION 11:**

SP 125: Please verify that we are to provide weekly survey data for not just the settlement plates, but also cross sections of the project (at 25' OC) for the duration of the settlement period.

RESPONSE:

Correct.

**QUESTION 12:**

What is the budget for this project? We need this to determine the liquidated damages for the project since these damages are on a stated scale. Our bonding company is requiring us to furnish them both the budget and the liquidated damages cost per day.

RESPONSE:

The City-Parish does not provide a project budget. Liquidated damages will be assessed per Section 9-8.3.

**QUESTION 13:**

Can you please provide the locations of the soil borings?

RESPONSE:

Locations, in latitude/longitude format, are shown in the plans.

**QUESTIONS 14:**

Will header material be required in slopes within 500' of bridge or just under the road footprint?

RESPONSE:

See Note 2 on Sheet 14.

**QUESTION 15:**

After 9 months of settlement, is the removal of high fill embankment in this phase of the project?

Is that number captured in the excavation?

RESPONSE:

Note 6 on sheet 3a has been revised as part of the plan revisions in this addendum.

**QUESTION 16:**

Can a low water crossing be placed in Clay cut Bayou?

RESPONSE:

No.

**QUESTION 17:**

What is the dollar amount of the Engineer's Estimate for this project?

RESPONSE:

The City-Parish does not provide the engineer's estimate prior to opening bids.

**QUESTION 18:**

Will the Contractor be allowed to work extended work schedules, such as 7 days per week/12 hours per day?

RESPONSE:

Work shall be completed per Specifications Section 9.5 and comply with other applicable City Ordinances such as noise restrictions.

**QUESTION 19:**

If the Contractor elects to work more than 40 hours per week, weekends and/or holidays, will there be any inspection fees charged to the Contractor by the Engineer or the Owner? If so, please provide parameters and rates.

RESPONSE:

No additional fees are anticipated.

**QUESTION 20:**

Is there any indication, information, and/or belief, on the part of the Owner and/or Engineer, that any of the existing materials on this project scheduled for removal and/or demolition, including but not limited to, water, soils, metals, liquids, and/or debris that will be handled by the Contractor and/or its Employees, may be classified as hazardous, infectious, industrial, contaminated, radioactive, solid waste or any other type of controlled and/or regulated substance? If so, please explain and provide a copy of any supporting information to all Bidders to base their bids on. Please add any necessary unit price bid items to cover this work.

RESPONSE:

None required.

**QUESTION 21:**

Is it the Engineer and Owner's intent to have the Contractor use the excavated material for the embankment?

**RESPONSE:**

Excavated material is to be removed from the project in accordance with Section 203. Excavated material will not be incorporated into the project.

**QUESTION 22:**

In section 203-11 Plastic Soil Blanket, it states, “Areas requiring a plastic soil blanket shall be approved prior to placement of the plastic soil blanket”.

Please clarify the following:

Where is the Plastic Soil Blanket to be installed?

**RESPONSE:**

Plastic Soil Blankets shall be installed per Section 203-7(e).

**QUESTION 23:**

What are the parameters for the Engineer’s approval to use materials as the Plastic Soil Blanket?

**RESPONSE:**

Testing and inspection of materials shall meet the Quality Control and Quality Assurance requirements of Specification Sections 203-7(e) and 203-11.

**QUESTION 24:**

In the event that there is a surplus of excavated materials, will this material be required to be left onsite and if so, where? Or will it be disposed of offsite at the Contractor’s expense?

**RESPONSE:**

Excavated material is to be removed from the project in accordance with Section 203. Excavated material will not be incorporated into the project.

Excavated material shall become the property of the contractor.

**QUESTION 25:**

In the event that the existing excavated materials does not meet the Engineer’s approval for use as Embankment, how will the Contractor be paid to remove the wasted materials?

**RESPONSE:**

Excavated material will be paid under the planned General Excavation pay item.

**QUESTION 26:**

In the event that the Engineer orders the Excavated Materials wasted, how will the Contractor be paid for Imported Borrow Material? Please consider adding a bid item for Imported Borrow.

**RESPONSE:**

Imported Borrow Material will be paid under the planned Embankment pay item.

**QUESTION 27:**

With respect to the use of Settlement Plates – When and how often does the Engineer want settlement readings taken and computed to determine if additional fill is needed and/or additional compensation to the Contractor?

**RESPONSE:**

Settlement plates readings will be taken per Special Provision 9900014.

**QUESTION 28:**

Will mulching of the trees be allowed? If so, please clarify if removal of stumps will be required and will the Contractor be required to dispose of the mulch offsite?

**RESPONSE:**

Mulching will not be allowed.

Trees, stumps, and root balls (protruding vegetation) shall be removed, and any voids shall be backfilled (in lifts when void depth applicable) with specified material per Specifications Section 203.

**QUESTION 29:**

What is the solid bold line supposed to represent, i.e. proposed grade, existing grade?

**RESPONSE:**



The top of embankment.

**QUESTION 30:**

What is the hashed line supposed to represent, i.e. proposed grade, existing grade?

RESPONSE:

Existing grade.

**QUESTION 31:**

Between 82+20.00 and 89+00 there is an area marked with , what is this supposed to represent?

RESPONSE:

This is for the excavation of the existing ditch bottom that is considered unsuitable material.

**QUESTION 32:**

One Sheet 36, the detail for Pre-Cast Box Culverts shows a 4" min working table. Is this also required for Cast-In-Place box culverts?

RESPONSE:

The 4" working table is required for precast RCBs that are larger than 6'x6' in accordance with Note 5 on Plan Sheet 36. Cast-in-Place RCBs were not intended to be constructed on this project; only the headwall and wingwall details from the included Cast-in-Place RCB standard plans were intended to be used for construction.

**QUESTION 33:**

With respect to Temporary Silt Fencing in connection with the SWPPP, please confirm that the Contractor will be permitted to use Erosion control socks as an approved equal substitution?

RESPONSE:

Substitution for this item will depend on specific applications, reviewed case-by-case, and at the discretion of the Engineer.

**QUESTION 34:**

Do you have an approximate start date for the Jones Creek Road Extension project?

RESPONSE:

The City has approximately 150 days to issue the Notice To Proceed.

**QUESTION 35:**

Could you please confirm the retainage amount that will be held on this project?

RESPONSE:

The retainage is expected to be 5%.

**QUESTION 36:**

Can you provide the engineers estimate or aprox. budget for the project please. just trying to get an idea for bonding purposes is it \$2,000,000 or \$10,000,000 if you can get me within a couple million it would be helpful thanks.

RESPONSE:

The City-Parish does not provide the engineer's estimate prior to opening bids.

**QUESTION 37:**

Could you also provide a detail or product for the fence/gate?

RESPONSE:

Fence/gate shall comply with Section 902, plans, and Standard Plans.

**UNIFORM CONSTRUCTION BID FORMS**

With reference to Page UCBF 1 of 4, the Bidder shall indicate receipt of this Addendum in the space provided. Failure to indicate receipt of this Addendum may be cause for the bid to be rejected.

For online [www.centralbidding.com](http://www.centralbidding.com) bidders: An acknowledgment of this addendum will be prompted by the Expedite bidding program prior to formally submitting the bid. Technical addendums may have been created on the Central Bidding website for any changes made due to errors of input of schedule of bid items. The technical addendums might not be numbered the same as paper copy addendums that DPW issues to contractors who have picked up plans directly from them. Contractor should be aware that the technical addendums must be acknowledged when submitting the bid.

**APPROVED:**



Daniel Rosenquist, P.E.  
Chief Design & Construction Engineer



EARTHWORK

STATION	GENERAL EXCAVATION	EMBANKMENT
	CUYD	CUYD
80+95.0	81+00.0	65.621
81+00.0	94+50.0	18.927
203+56.0	203+55.0	0
DEFENTION POND	121.620	0
TOTAL	141.526	150.940

\*. INCLUDES 1454 CUYDS OF UNSUITABLE MATERIAL

SAWCUTTING

STATION	DESCRIPTION	SIDE CIL	LENGTH FEET
203+27	PROFIT REVETMENT	RT/LT	80
204+64	SIDEWALK - 7170 BARINGER RD	RT/LT	6
TOTAL			86

FENCING

STATION	STATION	SIDE OF CIL	DESCRIPTION	5-FT. CHAIN LINK FENCE	3-FT. CHAIN LINK GATE, 5-FT. HEIGHT
64+84	79+80	LT	DEFENTION POND / HMBLE PROPERTY	2157	EACH
90+90	92+29	RT	TIGER BEND @ CONCRETE CANAL LINING	300	
203+09	203+45	LT	PROFIT @ RCB / CONC. CANAL	95	
203+10	203+46	RT	PROFIT @ RCB / CONC. CANAL	76	
203+10	203+10	LT/RT	PROFIT @ RCB / CONC. CANAL	2	2
203+46	LT/RT			2	2
TOTAL				2,628	4

REVTMENT

STATION	STATION	DESCRIPTION	REMOVAL OF EXISTING CONCRETE REVETMENT	5' C.I.P. CONCRETE REVETMENT	4' C.I.P. CONCRETE REVETMENT	3' C.I.P. CONCRETE REVETMENT	30-LB RP RAP	55-LB RP RAP
65+60		DITCH OUTFALL @ POND						
73+80		STRUCTURE 7986 POND INLET						
78+37	80+44	LEFT TOE SLOPE REVETMENT					4.5	
90+30	99+64	EXISTING CONC. CANAL LINING	1,670				194.4	
90+99	91+49	RP RAP CANAL TRANSITION						169.6
91+49	92+30	CONCRETE CANAL LINING		93.8	423.1			
203+28		EXISTING CONC. CANAL LINING	422					
203+28		CONCRETE CANAL LINING TRANSITION (LT & RT)		27.3	104.5			
TOTAL			2,092	121.1	527.6		223.4	169.6

REMOVAL OF WALKS AND DRIVES

DESCRIPTION	AREA	REMOVAL OF CONCRETE WALKS AND DRIVES
	SQFT	SQYD
DRIVE - 14866 TIGER BEND RD	13397	1489
WALK - 7170 BARINGER RD.	308	34
DRIVE - 7170 BARINGER RD.	1307	145
TOTAL		1668



SUMMARY OF DRAINAGE STRUCTURES

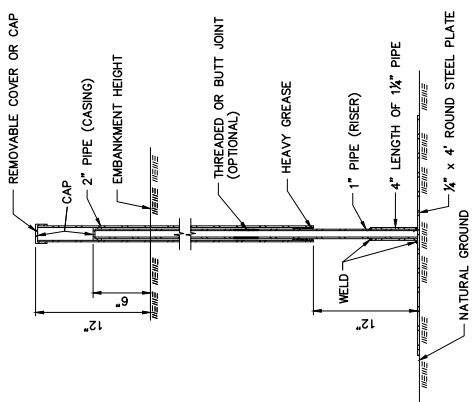
STRUCTURE NUMBER	STATION	DESCRIPTION	PLAN	TYPE	CONCRETE JUNCTION BOX	STORM DRAIN PIPE (TYPE & SITS)	RETICULINE (GRATE INLET (FRAME AND GRATE ONLY))	RCB
						15' LNT	42' LNT	10' X 8' LNT
						18' LNT		CONCRETE
						702-20 EACH		REBAR
759a	73+77	POND INLET STRUCTURE					1	13.15 2.194
759	74+64	42" X 172" STORM DRAIN PIPE		RCP		172		
758	75+50	CONCRETE JUNCTION BOX	702-20	JB	1			
757	76+14	42" X 150" STORM DRAIN PIPE		RCP		150		
242	76+78	CONCRETE JUNCTION BOX	702-20	JB	1			
237	76+72	18" X 8" STORM DRAIN PIPE		SDP		8		
239	76+64	15" X 8" STORM DRAIN PIPE		SDP		8		
401	92+99	(2) 10" X 8" REINFORCED CONCRETE BOX CULVERT EXT. WITH HEADWALL		RCB				22.20 1.536
243	200+66	42" X 174" STORM DRAIN PIPE		RCP		174		
244	201+65	CONCRETE JUNCTION BOX	702-20	JB	1			
245	202+17	42" X 96" STORM DRAIN PIPE		RCP		96		
705	202+74	CONCRETE JUNCTION BOX	702-20	JB	1			
703	202+74	15" X 8" STORM DRAIN PIPE		SDP		8		
706	202+68	42" X 46" STORM DRAIN PIPE		RCP		46		
700	203+28	(2) 9" X 5" REINFORCED CONCRETE BOX CULVERTS WITH HEADWALL		RCB				140 26.42 2.160
TOTAL					4	16	8	638
PROJECT TOTAL								308 140 61.77 5310

Δ - BACKFILL MATERIAL TO BE BACKFILL SAND FOR ENTIRE LENGTH.

SETTLEMENT PLATE NOTES:

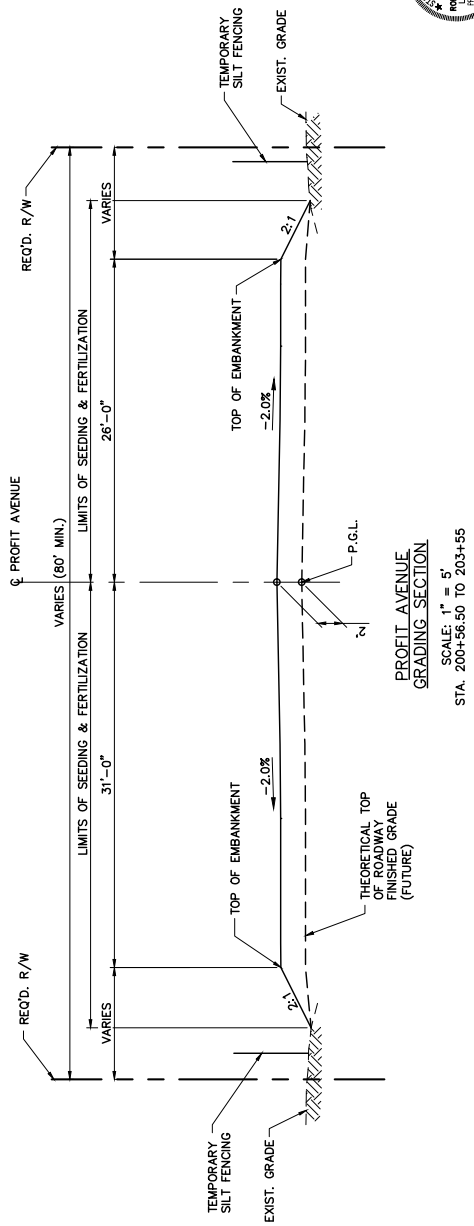
- 1. SETTLEMENT PLATES SHALL BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE PROJECT ENGINEER.
- 2. SETTLEMENT PLATES SHALL BE INSTALLED IMMEDIATELY PRIOR TO PLACEMENT OF FIRST LIFT OF EMBANKMENT.
- 3. STAKES AND FLAGGING SHALL BE PLACED AROUND THE SETTLEMENT PLATE ROD SO THAT IT IS CLEARLY VISIBLE.
- 4. BEGINNING ONCE THE EMBANKMENT FILL HAS ACHIEVED ROUGH GRADE SURFACE ELEVATIONS, THE SURFACE ELEVATIONS SHALL BE MEASURED AT OR NEXT TO THE SETTLEMENT PLATE. THE SURFACE ELEVATIONS SHALL BE MEASURED AS THE SETTLEMENT PLATE/ RISER ELEVATIONS ARE MEASURED.
- 5. READING SETTLEMENT PLATES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR, AS PER THE SPECIAL PROVISIONS, 9900014.
- 6. EMBANKMENT SHALL REMAIN IN PLACE FOR A MINIMUM OF 9 MONTHS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 7. SETTLEMENT PLATE INSTALLATION AND MONITORING SHALL BE PAID FOR UNDER ITEM 9900014.

SETTLEMENT PLATE LOCATIONS JONES CREEK RD.		
STATION	LOCATION	NUMBER OF PLATES
73+50	ON C.L.	1
78+50	20' RT.	1
79+60	ON C.L.	1
83+00	28' RT.	1
86+00	10' LT.	1
89+00	8' LT.	1
92+00	8' LT.	1
TOTAL		7



DETAIL OF SETTLEMENT PLATE

TYPICAL SECTION NOTES:  
CONTRACTOR IS TO MAINTAIN DRAINAGE 1' AWAY FROM THE GRADING SECTION.



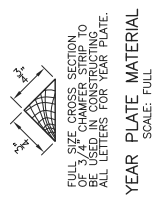
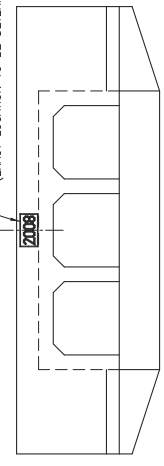
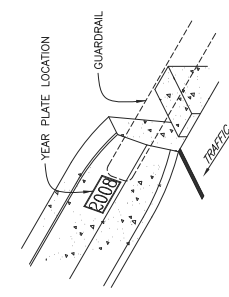
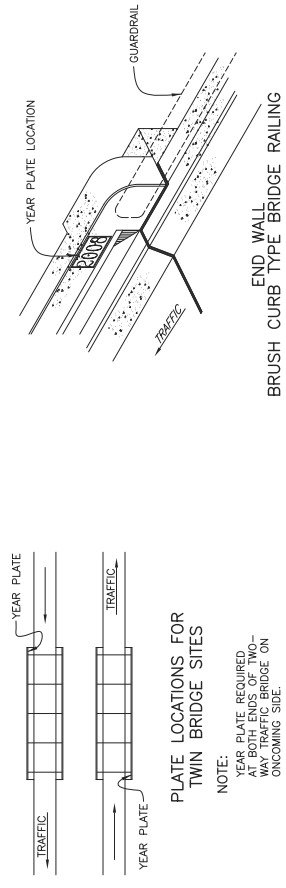
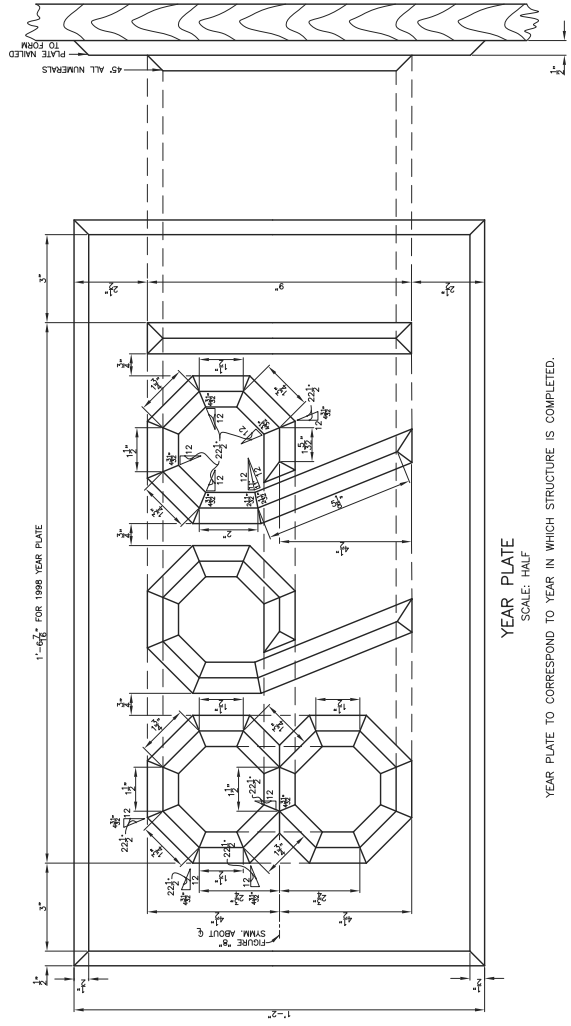
PROFIT AVENUE  
GRADING SECTION

SCALE: 1" = 5'  
STA. 200+56.50 TO 203+55



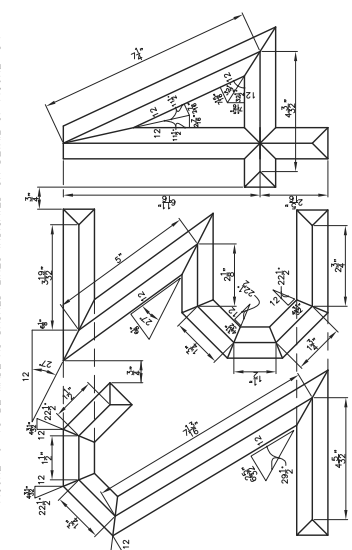
SHEET NUMBER 30		DESIGNED: FARR		CHECKED: LEAR		C.P. PROJECT: 12-CS-HC-0060A		STATE PROJECT: JAN. 2025		DATE: 4/22/25		REVISION NOTE 6		REVISION DESCRIPTION		BY: R.L.		SHEET: 2 OF 2		CITY OF BATON ROUGE		BR		TYPICAL SECTION & DETAILS		JONES CREEK RD (AIRLINE-TIGER BEND)		MOTET	
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PROJECT NO.	
SHEET	101



YEAR PLATE NUMERALS

SCALE: HALF

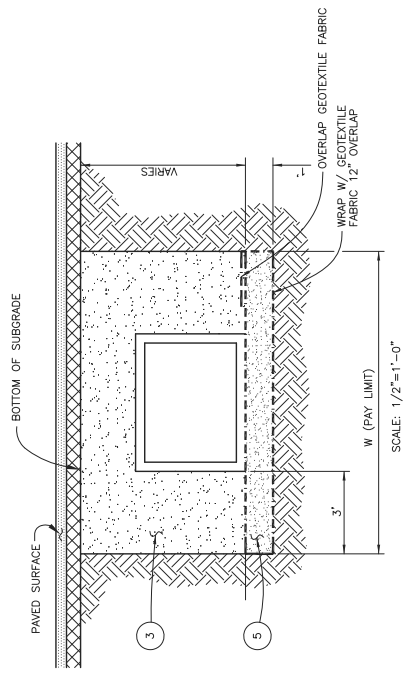


STANDARD PLAN NO.	601-04	DATED	FEBRUARY 18, 2008	SHEET NO.	1 OF 1
YEAR PLATES FOR CONCRETE STRUCTURES					
ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE					
DESIGNED	R. ELLIS	CHECKED	G. WINICE	APPROVED	T. STEPHENS

DATE	DESCRIPTION	REVISIONS

PROJECT NO.	
SHEET	102

TYPICAL BEDDING DETAIL  
FOR  
REINFORCED CONCRETE BOX CULVERT



GENERAL NOTES

ALL MATERIALS AND WORK SHALL CONFORM TO THE LATEST EDITION OF THE CITY OF BATON ROUGE AND PARISH OF EAST BATON ROUGE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION".

LEGEND

- 1 BEDDING MATERIAL COMPACTED TO 95% STANDARD PROCTOR DENSITY. (NO DIRECT PAY).
- 2 BACKFILL MATERIAL (QUALITY EXCAVATED OR SELECT MATERIAL OR SAND) COMPACTED TO A DENSITY AT LEAST EQUAL TO SURROUNDING UNDISTURBED SOIL. (NO DIRECT PAY).
- 3 BACKFILL MATERIAL (BACKFILL SAND), COMPACTED TO 95% STANDARD PROCTOR DENSITY. (NO DIRECT PAY).
- 4 BACKFILL MATERIAL (QUALITY EXCAVATED OR SELECT MATERIAL), COMPACTED TO A DENSITY AT LEAST EQUAL TO THE SURROUNDING UNDISTURBED SOIL. (NO DIRECT PAY).
- 5 67 LIMESTONE W/ GEOTEXTILE FABRIC.

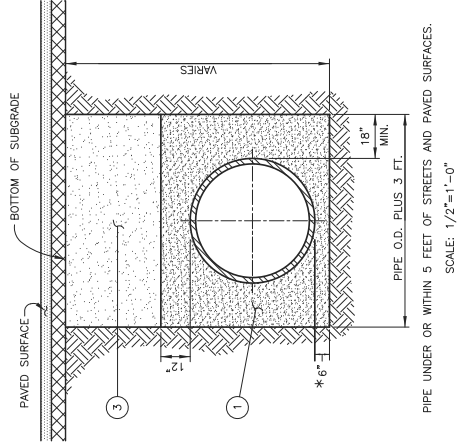


PIPE BEDDING SCHEDULE  
(RIGID PIPE)

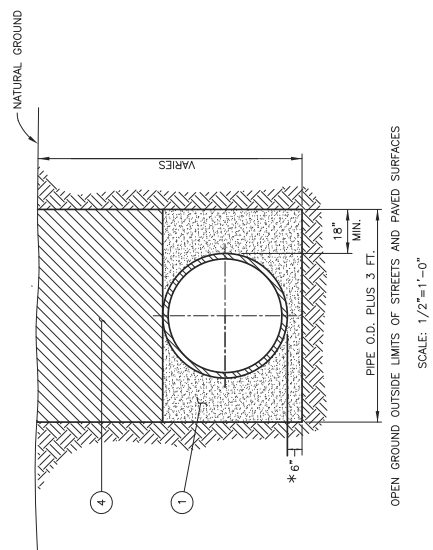
PIPE SIZE	TI (MIN.)
12"-30"	6"
36"-60"	12"
66"-96"	18"

FLEXIBLE PIPE

(CORRUGATED METAL, POLYVINYL CHLORIDE, AND POLYETHYLENE)

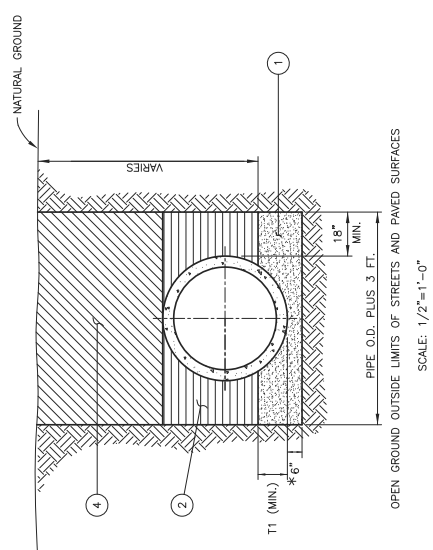
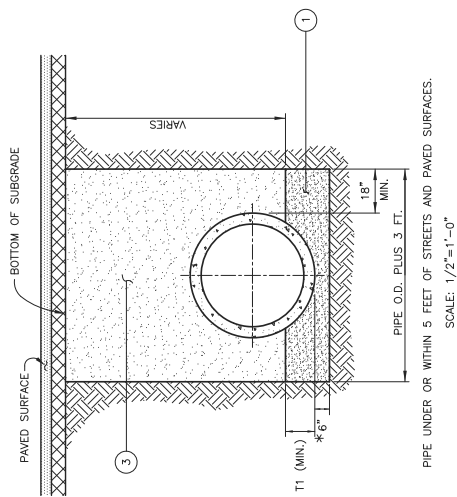


\* BEDDING UNDER PIPE SHALL BE 6" UNLESS OTHERWISE SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS.



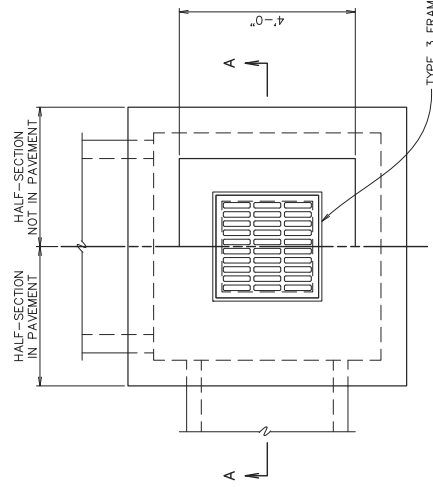
RIGID PIPE

(REINFORCED CONCRETE)

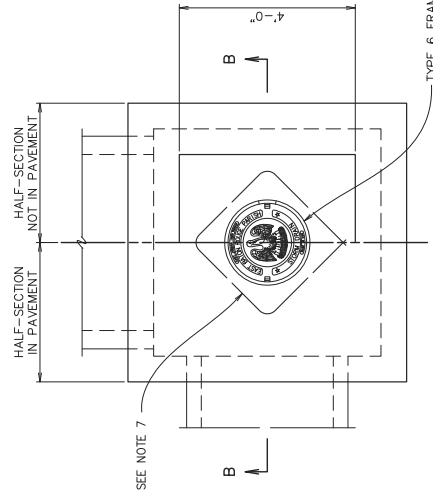


STANDARD PLAN NO.	701-01	DATED	February 8, 2008	SHEET NO.	1 OF 1
STANDARD BEDDING AND BACKFILL					
DETAILS FOR					
STORM DRAINAGE CONDUIT					
ENGINEERING DIVISION					
DEPARTMENT OF PUBLIC WORKS					
CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE					
DESIGNED	R. ELLIS	CHECKED	G. WAINCE	APPROVED	T. STEPHENS

PROJECT NO.	
SHEET	103



TOP VIEW  
TYPE 3  
SCALE: 3/4"=1'-0"



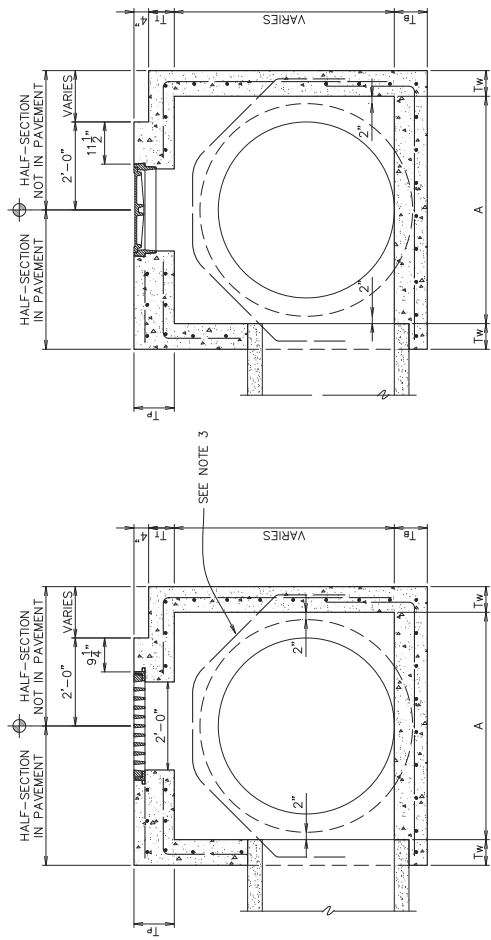
TOP VIEW  
TYPE 6  
SCALE: 3/4"=1'-0"

PIPE SIZE	DIMENSION
ROUND PIPE	ARCH PIPE (ROUND EQUIV.)
15"	2'-10"
18"	2'-10"
24"	2'-10"
30"	3'-5"
36"	4'-0"
42"	4'-8"
48"	5'-2"
54"	5'-8"
60"	6'-4"
66"	7'-0"
72"	7'-6"
84"	8'-10"

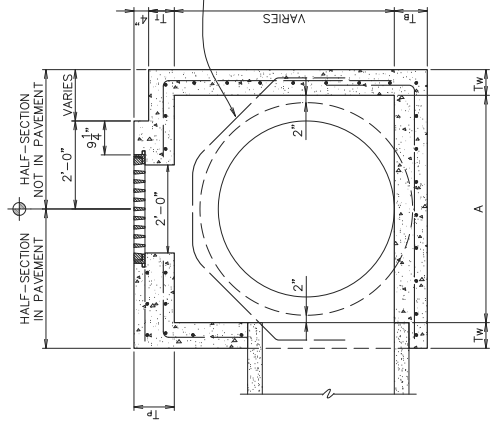
\* INCREASE AS REQUIRED TO PROVIDE MINIMUM TOP WIDTH OF 4' SQUARE.

- NOTE:
1. SEE STANDARD PLAN 702-99 FOR FRAME AND COVER DETAILS. TYPE 3 OR TYPE 6 FRAME AND COVER REQUIRED.
  2. PRECAST CONCRETE STRUCTURES CONFORMING TO STANDARD PLAN 702-97 MAY BE FURNISHED.
  3. DIAGONAL REINFORCEMENT REQUIRED FOR PIPE LARGER THAN 36". BARS SHALL LAP TO A FULL LENGTH VERTICAL BAR W/18d LAP LENGTH.
  4. DIMENSION A MAY BE VARIED FOR SKEWED PIPE.
  5. SEE STANDARD PLAN 702-96 FOR THICKNESS, REINFORCING STEEL, AND OTHER STRUCTURAL DETAILS.
  6. SEE STANDARD PLAN 702-98 FOR CURB TRANSITION DETAILS.
  7. DIAGONAL REINFORCEMENT REQUIRED. USE SAME REBAR SIZE AS TOP REINFORCING. PLACE AS BOTTOM STEEL IF LOCATED IN PAVEMENT.

PLAN STATION CALL-OUT



SECTION B-B  
TYPE 6  
SCALE: 3/4"=1'-0"



SECTION A-A  
TYPE 3  
SCALE: 3/4"=1'-0"



STANDARD PLAN No.	702-20
DATED	DEC. 6, 2010
SHT. No.	1 OF 1

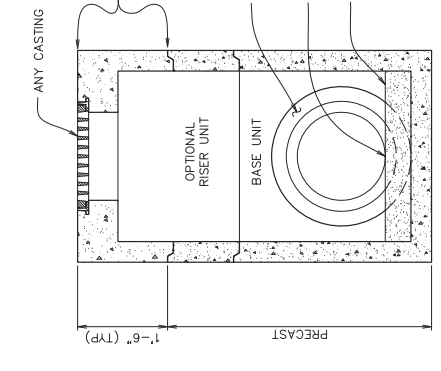
CAST IRON GRATE INLET  
AND JUNCTION BOX

ENGINEERING DIVISION	DESIGNED	CHECKED	APPROVED
DEPARTMENT OF PUBLIC WORKS	GLP	GLP	THOMAS A. STEPHENS
CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE	BY		

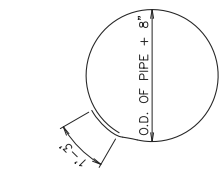




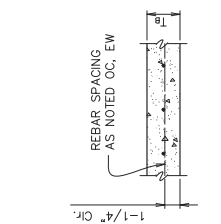
PROJECT NO.	
SHEET	105



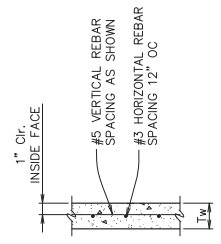
TYPICAL COMPOSITE STRUCTURE  
SCALE: N.T.S.



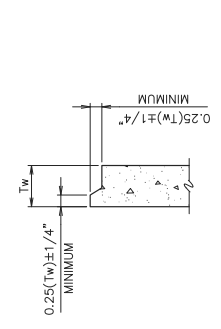
#4 HOOP  
SCALE: N.T.S.



BOTTOM SLAB DETAIL  
SCALE: N.T.S.



STANDARD PRECAST WALL DETAIL  
SCALE: N.T.S.



JOINT DETAIL  
SCALE: N.T.S.

PRECAST TOP SLAB DIMENSIONS				
"A" INSIDE LENGTH (FT)	"B" INSIDE WIDTH (FT)	"T <sub>1</sub> " SLAB THICKNESS (IN)	* REBAR REQ'D	* REBAR SPACING
≤ 4'	≤ 4'	4.0"	#4	12"
4'-6"	4'-6"	4.0"	#5	12"
6'-8"	6'-8"	5.0"	#5	8"
8'-10"	8'-10"	5.5"	#5	6"

\* AS SHOWN OC, EW, SET 1-1/4" CLR. FROM SLAB BOTTOM

PRECAST MIDDLE SLAB UNDER PAVEMENT DIMENSIONS				
"A" INSIDE LENGTH (FT)	"B" INSIDE WIDTH (FT)	"T <sub>1</sub> " SLAB THICKNESS (IN)	* REBAR REQ'D	* REBAR SPACING
≤ 20'	≤ 4'	5.0"	#4	12"
≤ 20'	4'-6"	6.0"	#5	12"
≤ 20'	6'-8"	7.0"	#5	8"
≤ 20'	8'-10"	8.5"	#5	6"

\* AS SHOWN OC, EW, SET 1-1/4" CLR. FROM SLAB BOTTOM

PRECAST BOTTOM SLAB DIMENSIONS				
"T <sub>1</sub> " SLAB THICKNESS (IN)	* REBAR REQ'D	* REBAR SPACING		
4.0"	#4	12"		
5.0"	#5	12"		
6.0"	#5	8"		
7.0"	#5	12"		
8.5"	#5	6"		

\* AS SHOWN OC, EW, SET 1-1/4" CLR. FROM SLAB BOTTOM

PRECAST MIDDLE SLAB OUTSIDE PAVEMENT DIMENSIONS				
"A" INSIDE LENGTH (FT)	"B" INSIDE WIDTH (FT)	"T <sub>1</sub> " SLAB THICKNESS (IN)	* REBAR REQ'D	* REBAR SPACING
≤ 20'	≤ 4'	5.0"	#4	12"
≤ 20'	4'-6"	5.0"	#5	12"
≤ 20'	6'-8"	6.0"	#5	8"
≤ 20'	8'-10"	6.5"	#5	6"

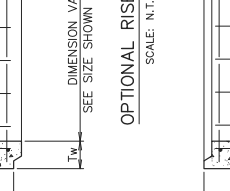
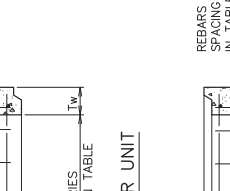
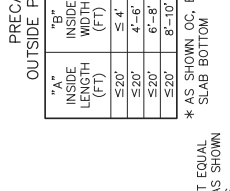
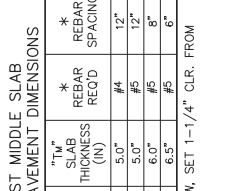
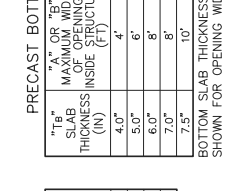
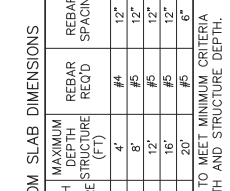
\* AS SHOWN OC, EW, SET 1-1/4" CLR. FROM SLAB BOTTOM

PRECAST PAYMENT SLAB DIMENSIONS				
"A" INSIDE LENGTH (FT)	"B" INSIDE WIDTH (FT)	"T <sub>1</sub> " SLAB THICKNESS (IN)	* REBAR REQ'D	* REBAR SPACING
≤ 10'	≤ 4'	6.0"	#5	12"
≤ 10'	4'-6"	7.0"	#5	12"
≤ 10'	6'-8"	9.0"	#5	8"
≤ 10'	8'-10"	10.0"	#5	12"

\* AS SHOWN OC, EW, TB

SEE NOTE 11

Architectural detail showing a cross-section of a precast wall base. The drawing includes a grid of horizontal and vertical lines, a horizontal line indicating a level, and a vertical line indicating a wall. A note 'SEE NOTE 11' is present with an arrow pointing to the horizontal line.



- NOTE:
1. THESE PRECAST UNITS ARE INTENDED TO BE USED AS THE LOWER PORTION OF A COMPOSITE STRUCTURE. STRUCTURAL FINISHING DETAILS ARE SHOWN ON OTHER STANDARD PLANS FOR STRUCTURE TYPES.
  2. ALL REINFORCING STEEL TO BE DEFORMED GRADE 60 MINIMUM REBAR. STEEL BAR SIZE & SPACING MAY BE ADJUSTED AS LONG AS AREA OF STEEL IS MAINTAINED PER FOOT IN ACCORDANCE WITH ASTM C913-08.
  3. MINIMUM CONCRETE COVER FOR REBAR STEEL IS TO BE 1" FOR PRECAST CONCRETE WALLS AND 1-1/4" FOR OTHER PRECAST MEMBERS.
  4. CONCRETE COMPRESSIVE STRENGTH FOR PRECAST STRUCTURES TO BE 5000 PSI. PRECAST STRUCTURES SHALL BE CAST AND CURED TO A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI BEFORE SHIPPING UNITS.
  5. SEE SHEET 702-99 FOR FRAME AND COVER DETAILS.
  6. SEE SHEET 702-96 FOR CAST-IN-PLACE STRUCTURAL DETAILS.
  7. PIPE OPENING TO BE FORMED ONLY WHEN REQUIRED.
  8. ALL PIPE ENDS TO BE SET FLUSH WITH INTERIOR WALLS FACE. PIPE ANNUAL GROOVE IS TO BE ROUTED WITH NON-SHRINK GROUT AFTER INSTALLATION.
  9. JOINTS BETWEEN PRECAST UNITS TO BE SEALED WITH FLEXIBLE PLASTIC GASKET MATERIAL AND WRAPPED WITH A 12" WIDTH OF GEOTEXTILE FABRIC.
  10. JOINTS BETWEEN CAST-IN-PLACE SECTIONS AND OR PRECAST UNITS TO BE TONGUE AND GROOVE AND SEALED WITH TYPE II GRADE A EPOXY OR FLAT JOINT WITH A MINIMUM OF 12" OF No. 4 BARS AT 18" CTRS. (MAX.)
  11. PRECAST CONCRETE INLETS CONFORMING TO STANDARD PLANS MAY BE FURNISHED. LEDGE WIDTH MAY BE REDUCED BY 1" AROUND INLET FRAMES TO 2-1/2" SUPPORT BEAM BETWEEN DOUBLE RETICULINE GRATE INLETS MAY BE REDUCED BY 2" DEPTH TO FORM 10 X 10" BEAM.

12. PRECAST UNITS SHALL CONFORM TO SECTION 1017 OF THE STANDARD SPECIFICATIONS.
13. ALL PRECAST UNITS TO BE EQUIPPED WITH AT LEAST 2 COMMERCIAL IN COMPLIANCE WITH APPLICABLE ANSI AND OSHA STANDARDS (MINIMUM SAFETY FACTOR OF 4). EMBEDDED INSERTS TO CONSTRUCTED OF GALVANIZED STEEL OR CORROSION RESISTANT MATERIALS AND INSTALLED BY PRECAST MANUFACTURER IN ACCORDANCE WITH SUPPLIERS INSTRUCTIONS. NO LIFT INSERTS SHALL REMAIN EXPOSED ON VISIBLE SURFACES AFTER THE STRUCTURE IS PERMITTED.
14. NO LIFTING WITH CHAINS WRAPPED AROUND PRECASTERS ARE REQUIRED TO BE NPCA CERTIFIED.
15. PRECASTERS ARE REQUIRED TO BE PER MANUFACTURER'S INSTRUCTIONS. ANY MODIFICATIONS TO STRUCTURES IN FIELD SHALL REQUIRE PRECASTER'S WRITTEN APPROVAL.
16. MINIMUM THICKNESS OF STRUCTURAL ELEMENTS INSTALLED IN OR UNDER PAVEMENT SHALL BE 6".

17. PRECAST UNITS SHALL CONFORM TO SECTION 1017 OF THE STANDARD SPECIFICATIONS.
18. ALL PRECAST UNITS TO BE EQUIPPED WITH AT LEAST 2 COMMERCIAL IN COMPLIANCE WITH APPLICABLE ANSI AND OSHA STANDARDS (MINIMUM SAFETY FACTOR OF 4). EMBEDDED INSERTS TO CONSTRUCTED OF GALVANIZED STEEL OR CORROSION RESISTANT MATERIALS AND INSTALLED BY PRECAST MANUFACTURER IN ACCORDANCE WITH SUPPLIERS INSTRUCTIONS. NO LIFT INSERTS SHALL REMAIN EXPOSED ON VISIBLE SURFACES AFTER THE STRUCTURE IS PERMITTED.
19. NO LIFTING WITH CHAINS WRAPPED AROUND PRECASTERS ARE REQUIRED TO BE NPCA CERTIFIED.
20. PRECASTERS ARE REQUIRED TO BE PER MANUFACTURER'S INSTRUCTIONS. ANY MODIFICATIONS TO STRUCTURES IN FIELD SHALL REQUIRE PRECASTER'S WRITTEN APPROVAL.
21. MINIMUM THICKNESS OF STRUCTURAL ELEMENTS INSTALLED IN OR UNDER PAVEMENT SHALL BE 6".

22. PRECAST UNITS SHALL CONFORM TO SECTION 1017 OF THE STANDARD SPECIFICATIONS.
23. ALL PRECAST UNITS TO BE EQUIPPED WITH AT LEAST 2 COMMERCIAL IN COMPLIANCE WITH APPLICABLE ANSI AND OSHA STANDARDS (MINIMUM SAFETY FACTOR OF 4). EMBEDDED INSERTS TO CONSTRUCTED OF GALVANIZED STEEL OR CORROSION RESISTANT MATERIALS AND INSTALLED BY PRECAST MANUFACTURER IN ACCORDANCE WITH SUPPLIERS INSTRUCTIONS. NO LIFT INSERTS SHALL REMAIN EXPOSED ON VISIBLE SURFACES AFTER THE STRUCTURE IS PERMITTED.
24. NO LIFTING WITH CHAINS WRAPPED AROUND PRECASTERS ARE REQUIRED TO BE NPCA CERTIFIED.
25. PRECASTERS ARE REQUIRED TO BE PER MANUFACTURER'S INSTRUCTIONS. ANY MODIFICATIONS TO STRUCTURES IN FIELD SHALL REQUIRE PRECASTER'S WRITTEN APPROVAL.
26. MINIMUM THICKNESS OF STRUCTURAL ELEMENTS INSTALLED IN OR UNDER PAVEMENT SHALL BE 6".

27. PRECAST UNITS SHALL CONFORM TO SECTION 1017 OF THE STANDARD SPECIFICATIONS.
28. ALL PRECAST UNITS TO BE EQUIPPED WITH AT LEAST 2 COMMERCIAL IN COMPLIANCE WITH APPLICABLE ANSI AND OSHA STANDARDS (MINIMUM SAFETY FACTOR OF 4). EMBEDDED INSERTS TO CONSTRUCTED OF GALVANIZED STEEL OR CORROSION RESISTANT MATERIALS AND INSTALLED BY PRECAST MANUFACTURER IN ACCORDANCE WITH SUPPLIERS INSTRUCTIONS. NO LIFT INSERTS SHALL REMAIN EXPOSED ON VISIBLE SURFACES AFTER THE STRUCTURE IS PERMITTED.
29. NO LIFTING WITH CHAINS WRAPPED AROUND PRECASTERS ARE REQUIRED TO BE NPCA CERTIFIED.
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31. MINIMUM THICKNESS OF STRUCTURAL ELEMENTS INSTALLED IN OR UNDER PAVEMENT SHALL BE 6".

32. PRECAST UNITS SHALL CONFORM TO SECTION 1017 OF THE STANDARD SPECIFICATIONS.
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34. NO LIFTING WITH CHAINS WRAPPED AROUND PRECASTERS ARE REQUIRED TO BE NPCA CERTIFIED.
35. PRECASTERS ARE REQUIRED TO BE PER MANUFACTURER'S INSTRUCTIONS. ANY MODIFICATIONS TO STRUCTURES IN FIELD SHALL REQUIRE PRECASTER'S WRITTEN APPROVAL.
36. MINIMUM THICKNESS OF STRUCTURAL ELEMENTS INSTALLED IN OR UNDER PAVEMENT SHALL BE 6".

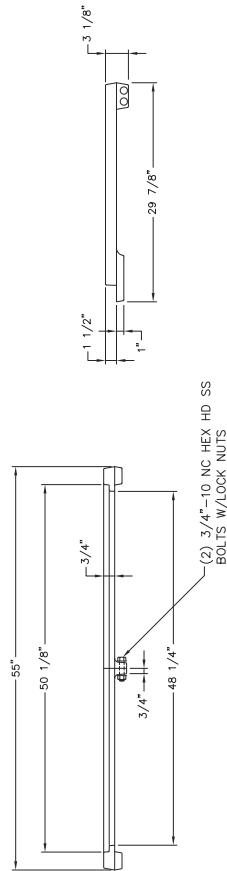
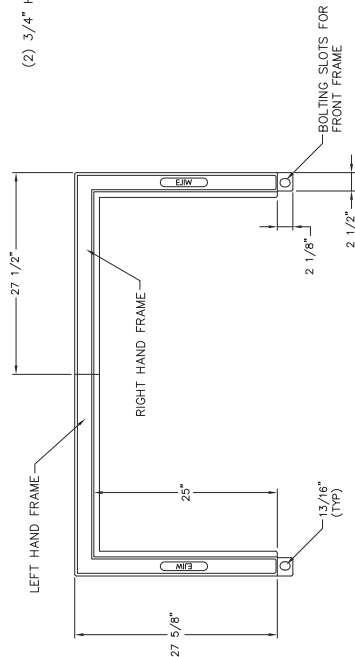
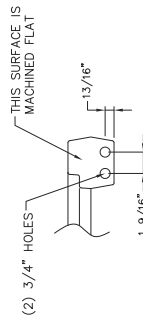
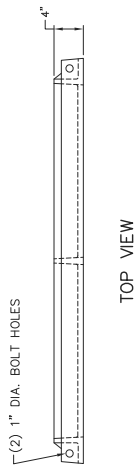
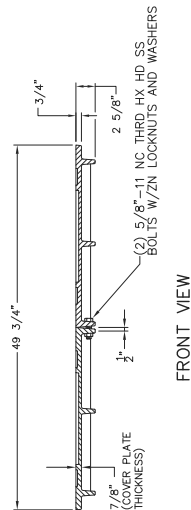
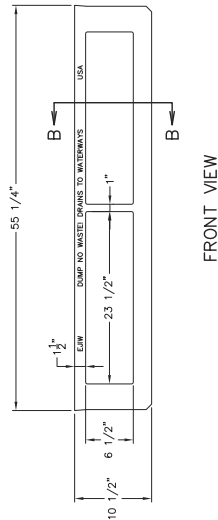
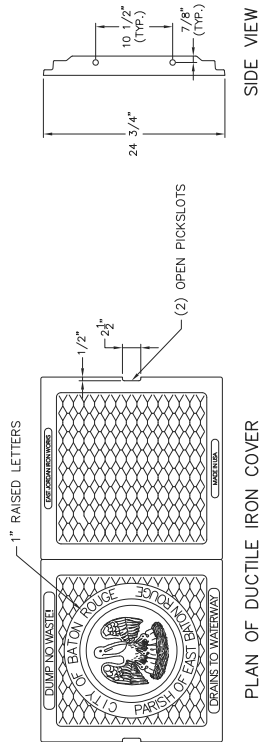
37. PRECAST UNITS SHALL CONFORM TO SECTION 1017 OF THE STANDARD SPECIFICATIONS.
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40. PRECASTERS ARE REQUIRED TO BE PER MANUFACTURER'S INSTRUCTIONS. ANY MODIFICATIONS TO STRUCTURES IN FIELD SHALL REQUIRE PRECASTER'S WRITTEN APPROVAL.
41. MINIMUM THICKNESS OF STRUCTURAL ELEMENTS INSTALLED IN OR UNDER PAVEMENT SHALL BE 6".



STANDARD PLAN No.	702-97	DATED	DEC. 6, 2010	SHT. No.	1 OF 1
PRECAST DRAINAGE STRUCTURE (STRUCTURAL DETAILS)					
ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE					
DESIGNED	GLP	CHECKED	GLP	APPROVED	TH. STEPHENS

PROJECT NO.	SHEET
	106

EJIW PRODUCT #44302030  
USF 5188 (ITEM 8070063)  
OR APPROVED EQUAL



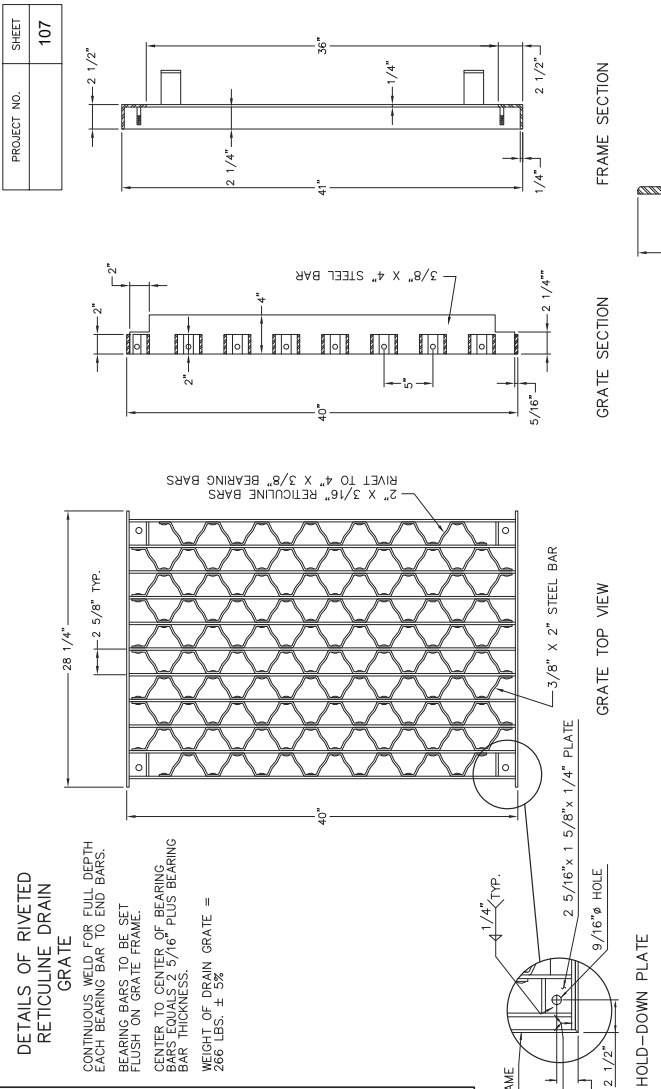
\* NOTES: WEIGHT OF DUCTILE IRON COVER = 314 LBS.  
 WEIGHT OF DUCTILE IRON FRAME = 128 LBS.  
 WEIGHT OF GREY IRON GRATE = 140 LBS.  
 \* (WEIGHTS SHOWN ARE FOR EJUV PRODUCTS.  
 (WEIGHTS OF APPROVED EQUAL PRODUCTS MAY VARY.)

**GENERAL NOTE:**  
ALL CAST IRON FRAME, GRATES, AND COVERS SHALL BE TRAFFIC BEARING AND BE OF DOMESTIC ORIGIN OR COMPLY WITH SECTION 6-11.  
FRAME, GRATES, AND COVERS SHALL MEET OR EXCEED ALL REQUIREMENTS OF THE MASHTO DESIGNATION: M306 STANDARD SPECIFICATION FOR DRAINAGE, SEWER, UTILITY, AND RELATED CASTINGS.

STANDARD PLAN No. 702-99	DATED AUGUST 11, 2008	SHT. No. 1 OF 3
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FRAMES, GRATES AND COVERS  
FOR INLETS AND MANHOLES  
(TYPE 1)

[illegible]



SCALE: 2"=1'-0"

STANDARD PLAN No. 702-99	DATED AUGUST 11, 2008	SHT. No. 2 OF 3
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FRAMES, GRATES AND COVERS  
FOR INLETS AND MANHOLES  
( TYPE 2 )

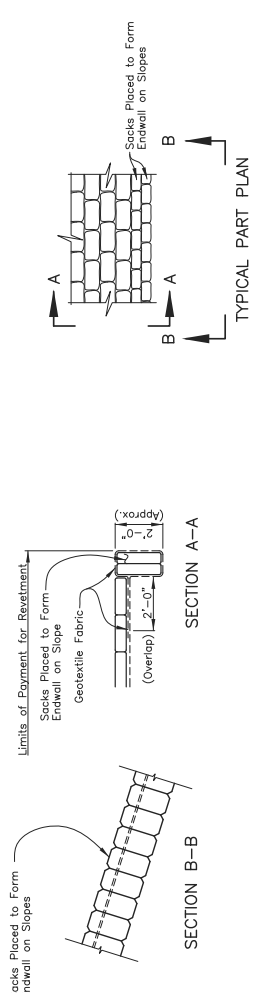
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ENGINEERING DIVISION  
DEPARTMENT OF PUBLIC WORKS  
CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE  
DESIGNED: G. CHENG  
CHECKED: G. CHENG  
APPROVED: STEPHEN G. CHENG

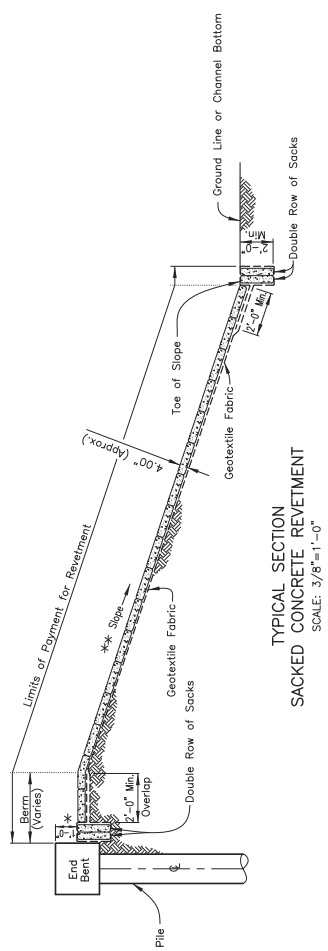
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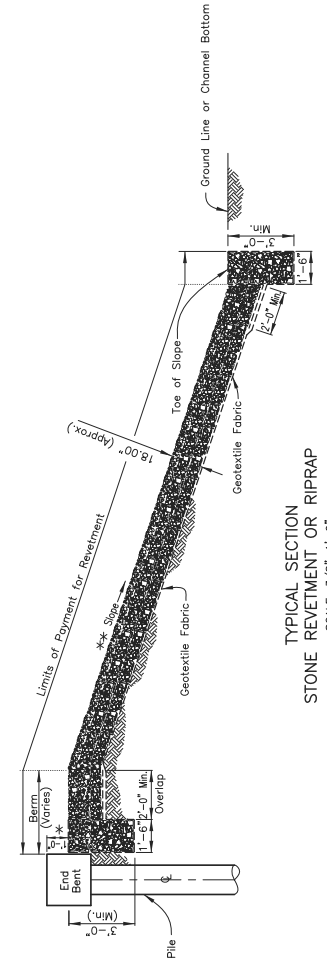
PROJECT NO.	
SHEET	109



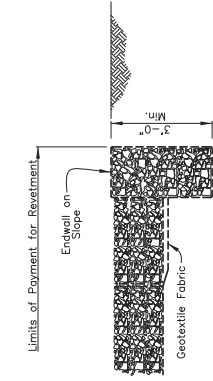
ENDWALL DETAILS  
FOR SACKED CONCRETE REVETMENT  
SCALE: N.T.S.



TYPICAL SECTION  
SACKED CONCRETE REVETMENT  
SCALE: 3/8"=1'-0"



TYPICAL SECTION  
STONE REVETMENT OR RIPRAP  
SCALE: 3/8"=1'-0"



ENDWALL DETAILS FOR  
STONE REVETMENT OR RIPRAP  
SCALE: N.T.S.

\*\* UNLESS OTHERWISE SHOWN ON PLANS  
\*\* SEE GENERAL PLAN FOR EMBANKMENT  
SLOPE AND LIMITS.



STANDARD PLAN NO.	704-01
DATED	February 6, 2008
SHEET NO.	1 OF 1

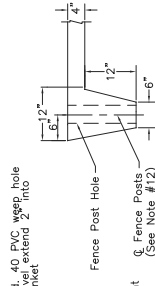
FLEXIBLE REVETMENT

ENGINEERING DIVISION	
DESIGNED	BY
DRAWN	DESCRIPTION
CHECKED	REVISIONS
APPROVED	
CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE	
DESIGNED	BY
DRAWN	DESCRIPTION
CHECKED	REVISIONS
APPROVED	
REDAUBENT G. VANNICE	H. PLANT
T. STEPHENS	

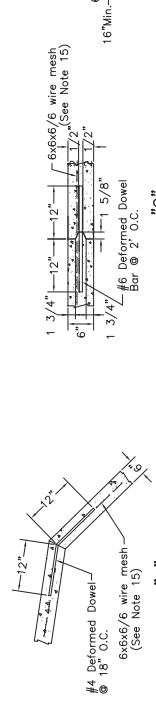
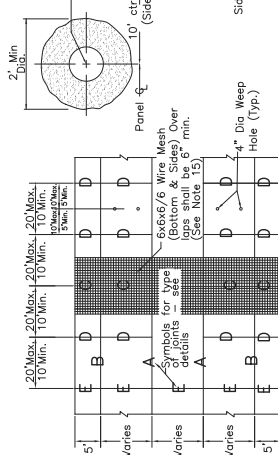
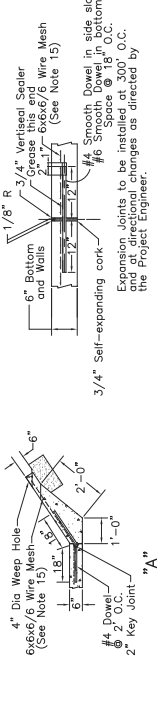
## GENERAL NOTES

1. Compaction of embankments shall be accomplished by any satisfactory method approved by the project engineer, the contractor shall use mechanical tampers.
2. If no satisfactory method of compacting loose material is specified, the material shall be soaked earth filled socks or concrete rip-rap.
3. All concrete revetment shall be concrete class AAQ00.
4. Unless otherwise approved and directed by the engineer a grout foundation shall be used.
5. Top of lining to be adjusted if necessary to match existing ground.
6. Reinforcing steel, wire mesh and joint material used in ditch pavement to be included in price bid for concrete revetment.
7. Contractor shall dispose of excess excavation outside limits of the project. Cost to be included in price bid for channel excavation.
8. Barrow material, where req'd, shall consist of:
  - a. Material to be excavated from the ditch.
  - b. Material to be removed and stockpiled at locations warranted and as directed by project engineer.
9. If silty material is encountered in the side slopes of the channel section, and if as directed by the engineer, sets of channel material are to be installed, the contractor shall remove the material from the channel bottom longitudinally down the channel. The total number of weep holes so installed shall not exceed the number of weep holes in the ditch. The material shall be installed longitudinally, rather than transversely.
10. Expansion joint seal: prime all surfaces with 2379 primer (Grace material) or 2381 (Grace material) or equal. Apply vertical coat 2381 (Grace material) or equal.
11. All fence posts to be set prior to installing the wall & sidewalk. (See 704-07).
12. Required 6/6x6 welded wire mesh fabric shall be installed. Required mesh fabric shall only be furnished in flat sheets, rolls will not be accepted. Welded wire fabric shall be furnished in 10' wide sheets. Welding approved bar chairs or other approved methods.

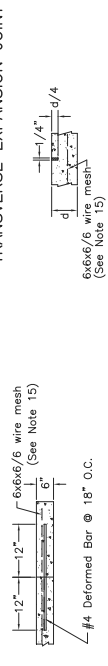
CONTINUOUS SIDEWALK TOE WALL



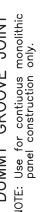
Note: No direct pay for weep hole

 $\approx 1/8^\circ$  E

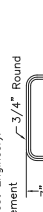
## TRANSVERSE EXPANSION JOINT



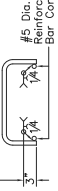
"D"  
DUMMY GROOVE JOINT



ect Engineer).



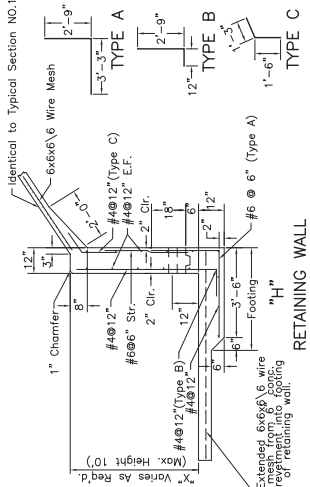
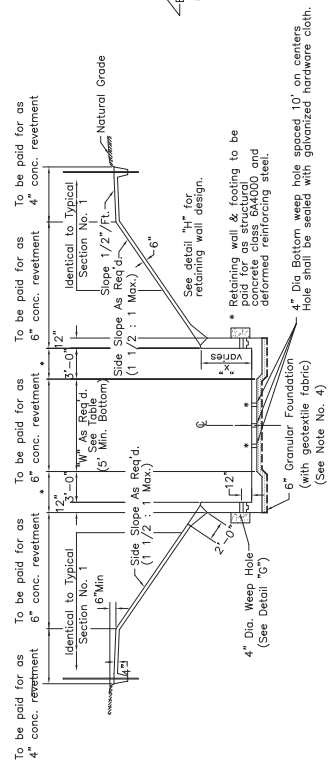
Embedment



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STA.	to	STA.	"W"	Slope
0+00		0+00	00 ft.	0.000%

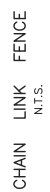


## RETAINING WALL

STANDARD PLAN NO. 704-05	DATED January 18, 2008	SHEET NO. 1 OF 1
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CONCRETE CANAL LINING  
NEW CANAL LINING

ENGINEERING DIVISION				
DEPARTMENT OF PUBLIC WORKS				
CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE				
DESIGNED	DRAWN	CHECKED	APPROVED	
J.M. Klier	D.R. PATT	B. HARMON	B. HARMON	



2" Mesh

Typical Fastener

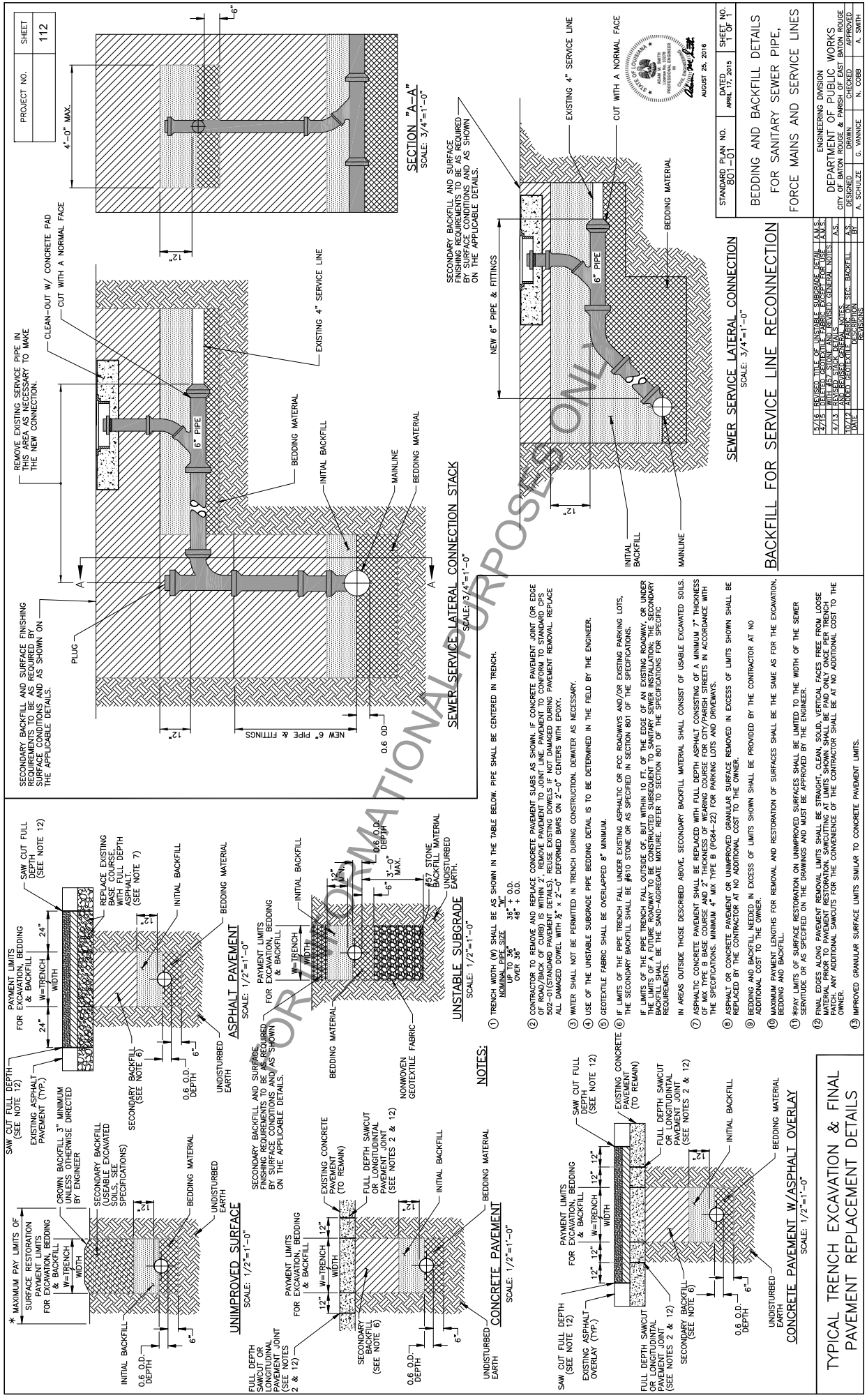
Tension Wire

Barbed & Twisted Selvages

**FABRIC & TENSION WIRE DETAIL**  
Tension Wire Req'd. on Bottom Only

[illegible]





PROJECT NO.	SHEET
112	112

STANDARD PLAN NO.	DATE	SHEET NO.
801-01	APRIL 17, 2015	1 OF 1

BEDDING AND BACKFILL DETAILS	
FOR SANITARY SEWER PIPE,	
FORCE MAINS AND SERVICE LINES	

ENGINEERING DIVISION	CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE
DRAWN	CHECKED
A. SCHULZE	N. COBB
DESIGNED	APPROVED
C. WAINWRIGHT	A. SMITH

REVISIONS
NO. DESCRIPTION
1. 12/15 REVISION TO UNSTABLE SUBGRADE DETAIL
2. 12/15 REVISION TO UNSTABLE SUBGRADE DETAIL
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ALL CAST IRON FRAME AND COVERS SHALL BE TRAFFIC BEARING FRAME AND COVERS SHALL MEET OR EXCEED ALL REQUIREMENTS OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS DESIGNATION : M306-05 STANDARD SPECIFICATION FOR DRAINAGE, SEWER, UTILITY, AND RELATED CASTINGS. THEY SHALL HAVE AN ENVIRONMENTALLY SAFE, WATER-BASE ASPHALTIC COATING WHICH IS NONTXONIC, NONFLAMMABLE, COLORLESS, AND DRIES TO A HARD BLACK FINISH.



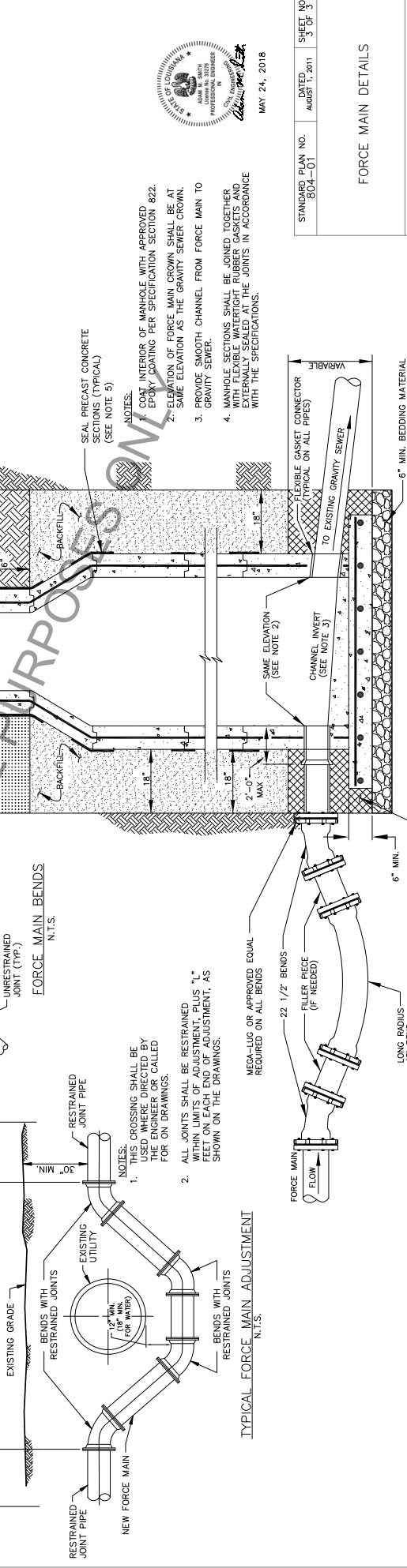
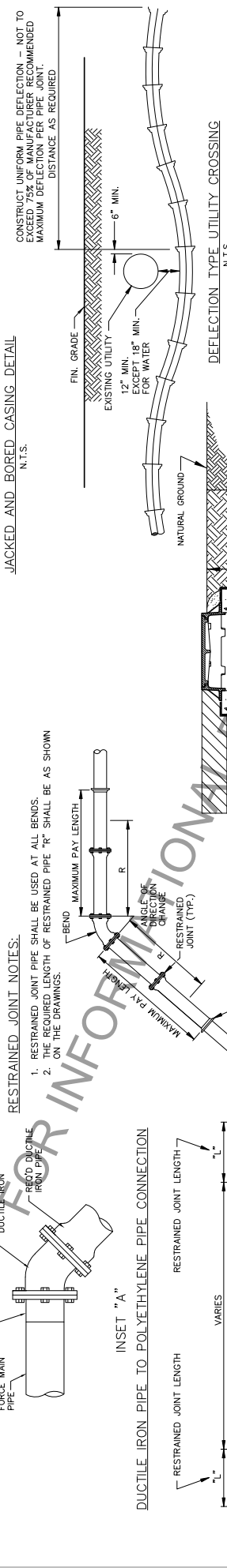
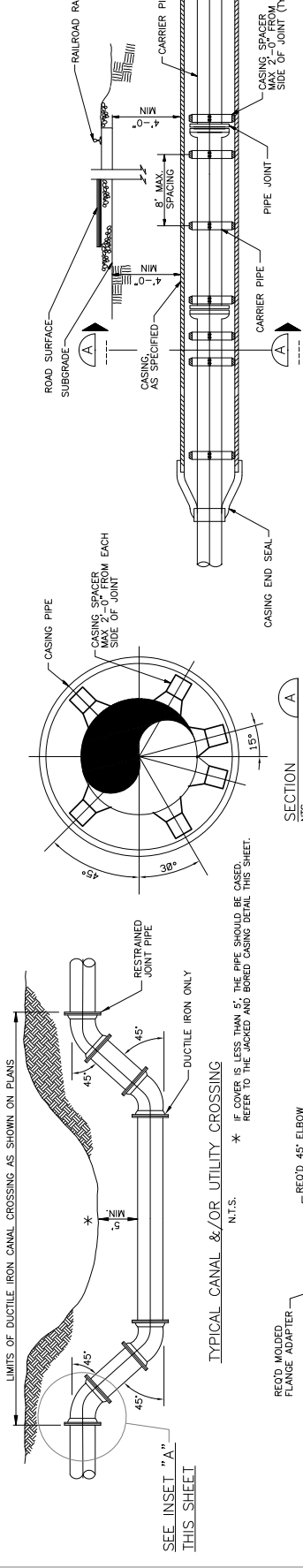
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STANDARD PLAN NO. 804-01	DATED MAY 24, 2018	SHEET NO. 2 OF 3
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	MAY 24, 2016	CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION
DATE	DESCRIPTION REVISIONS	BY
		J. ORAIN DESIGNED S. CORTEZ CHECKED R. LAMBERT APPROVED A. SMITH

PROJECT NO.	SHEET
	115



ENGINEERING DIVISION	CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE
DESIGNED BY	DESIGNED BY
CHECKED BY	CHECKED BY
DRAWN BY	DRAWN BY
APPROVED BY	APPROVED BY
DATE	DATE

PROJECT NO.	SHEET
	116

The Contractor may substitute the following fencing materials in lieu of those materials specified:

Chain link fence posts, rails, braces and gate frame materials may be round pipe manufactured from steel conforming to ASTM A-569, cold rolled, electric welded and externally triple coated with a minimum thickness of 0.005 inch, or galvanized steel conforming to ASTM A-569, cold rolled, electric welded and externally triple coated with a minimum thickness of 0.005 inch, and an electrostatically applied thermoplastic clear polyurethane acrylic coating having a minimum dry film thickness of 0.005 inch, or an equivalent material approved by the Engineer. The zinc powder coating shall be applied after fabrication.

Posts, rails, braces and gate frame materials shall conform to the following schedule:

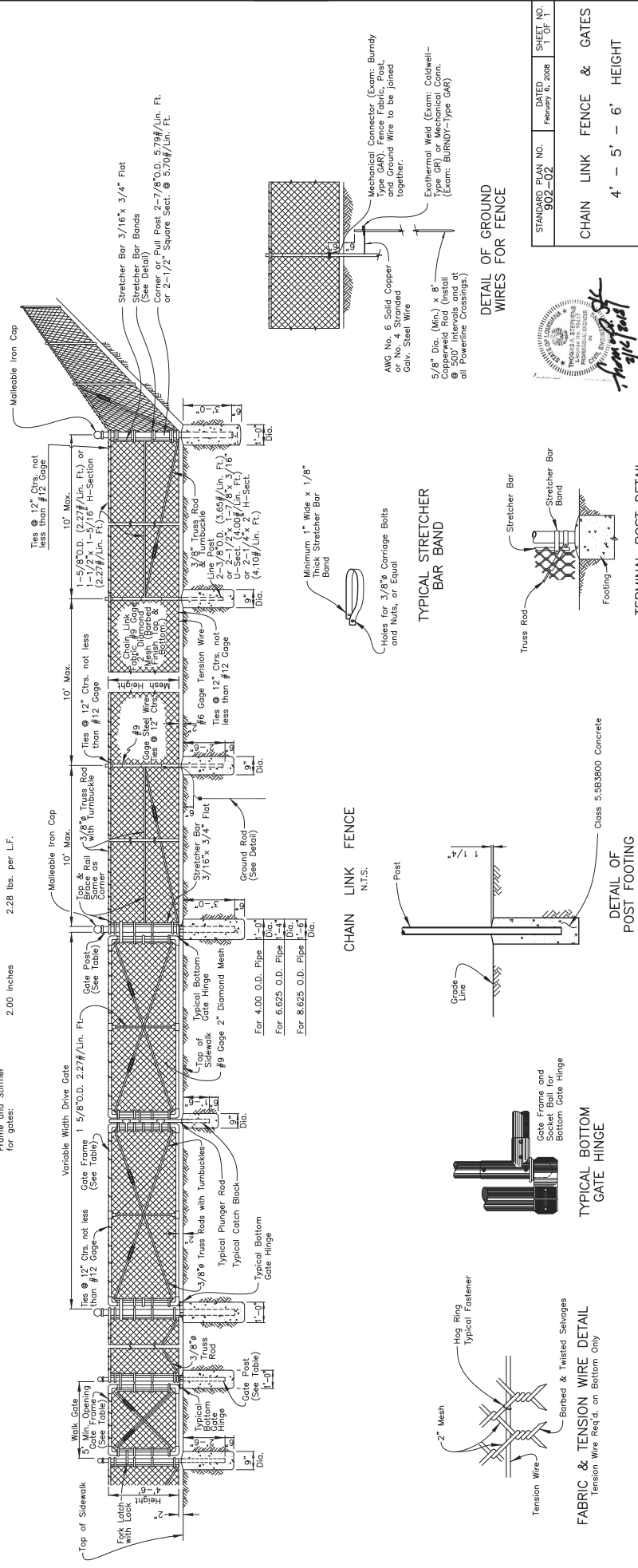
USE	PIPE SIZE	MINIMUM WEIGHT
End, Corner, Slope and Pull Posts:	3.50 inches	5.71 lbs. per L.F.
Line Posts:	3.00 inches	4.64 lbs. per L.F.
Gate Posts:	3.50 inches	5.71 lbs. per L.F.
Top Rails and Braces:	1.625 inches	1.84 lbs. per L.F.
Frame and Stiffener for gates:	2.00 inches	2.28 lbs. per L.F.

GATES			
WALKWAY	WALKWAY	WALKWAY	WALKWAY
MIN. OPENING	MIN. OPENING	MIN. OPENING	MIN. OPENING
13" MAXIMUM	13" MAXIMUM	13" MAXIMUM	13" MAXIMUM
1.30	2.71	4.00	9.10
1.30	2.71	6.625	18.97
OVER 18"	1.30	2.71	6.625
OVER 18"	1.30	2.71	6.625

GENERAL NOTES:

The fence installation and details shown are typical of the fence system. The fence system shall be installed in accordance with the Standard Specifications. Any Subcontractor Fence Item Which has its Surface Abraded Shall be Painted With Rust-Resistant Galvalume, or an Approved Equal. Electrical grounding devices are to be installed in accordance with Subsection 902-3 of the Standard Specifications. All bolts to be upset to discourage vandalism.

NOTE:  
Lateral Fence to be same Construction As Frontage Fence.



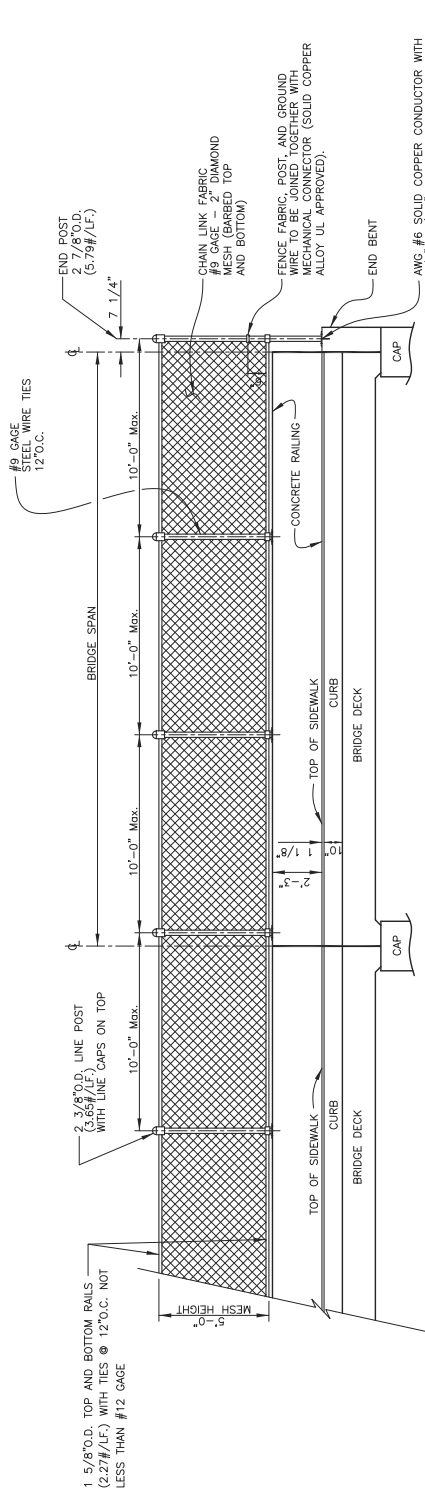
STANDARD PLAN NO.	902-02	DATED	February 6, 2008	SHEET NO.	1 OF 1
CHAIN LINK FENCE & GATES					
4' - 5' - 6' HEIGHT					

ENGINEERING DIVISION	DESIGNED	CHECKED	APPROVED
CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE	R. ELLIS	G. WINICE	T. STEPHENS
DATE	DESCRIPTION	REVISIONS	

PROJECT NO.	SHEET
	117

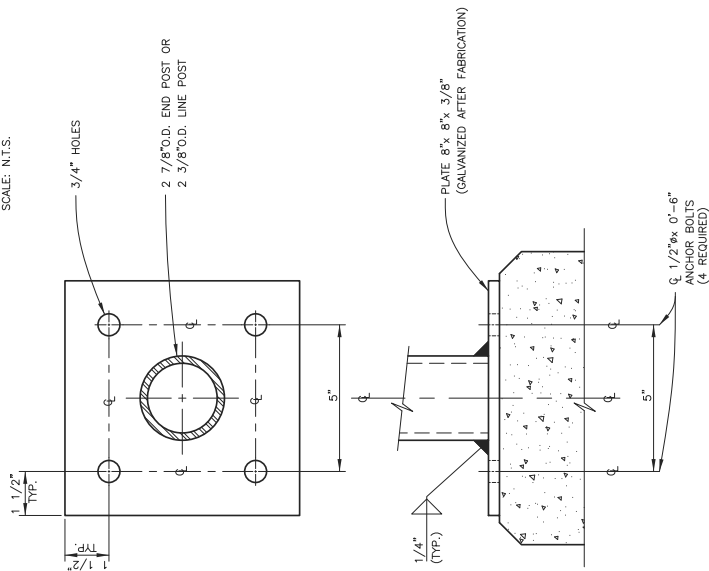
GENERAL NOTES:

1. BRIDGE FENCING SHALL BE PAID FOR UNDER ITEM 902015 FOR FENCE, AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND NEW MATERIALS NECESSARY TO COMPLETE FENCING. THERE MAY BE EXIST. FENCING ALONG CHANNEL.
2. ANY DAMAGE TO THE STRUCTURE DUE TO INSTALLATION OF FENCING WILL BE REPAIRED BY THE SUBCONTRACTOR OF THE ENGINEER. (NO DIRECT PAYMENT)
3. ANY GALVANIZED FENCE ITEM WHICH HAS ITS SURFACE ABRADED SHALL BE PAINTED WITH RUST-OLEUM "GALVINOLEUM," OR AN APPROVED EQUAL.
4. ALL METAL TO BE HOT - DIPPED GALVANIZED.



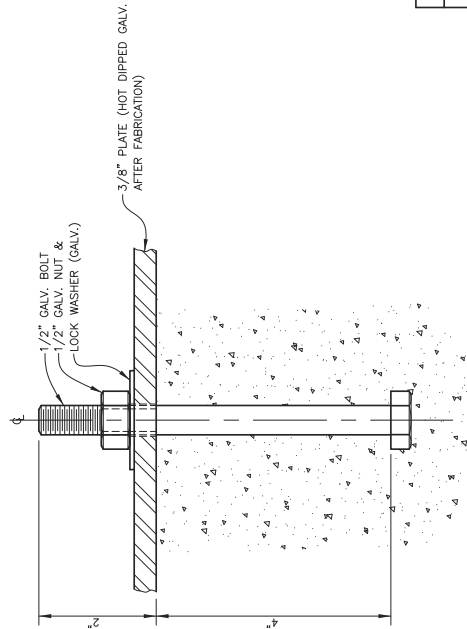
ELEVATION OF RAILING

SCALE: N.T.S.



DETAIL SHOWING RAILING BASE PLATE

SCALE: HALF



## ANCHOR BOLT DETAIL

ANCHOR BOLT AND FITTINGS TO BE INCLUDED IN PRICE BID FOR 5-FT. CHAIN LINK FENCE (ON-STRUCTURE)

SCALE: FULL


STANDARD PLAN NO. 902-05	DATED February 8, 2008	SHEET NO. 1 OF 1
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5-FOOT CHAIN LINK FENCE  
ON STRUCTURE

ENGINEERING DIVISION			
DEPARTMENT OF PUBLIC WORKS			
CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE			
DESIGNED	DRAWN	CHECKED	APPROVED
H. PLYANT	G. WANNICE	R. FLIJS	T. STEPHENS

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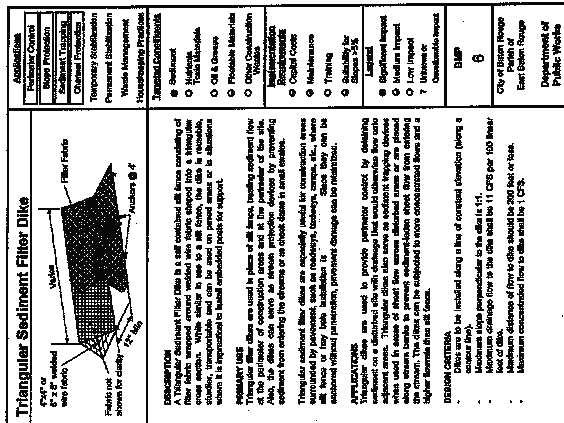
PROJECT NO.	SHEET
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Erosion Control Mats	
	<p><b>DESCRIPTION</b></p> <p>An erosion control mat (ECM) is a permeable mesh of biodegradable fibers (jute, straw, coconut, etc.) that is seeded with native grasses and shrubs and must be sown, covered, and anchored by a wide variety of weather conditions to be successful. The ECM is designed to stabilize the soil and prevent erosion while the native vegetation establishes. The ECM is made of a biodegradable material and is designed to be used in areas where erosion is a problem. The ECM is made of a biodegradable material and is designed to be used in areas where erosion is a problem.</p> <p><b>DISPERSED SEEDING</b></p> <p>The dispersed seeding method involves the application of seed to the ECM. The seed is applied to the ECM in a grid pattern. The seed is applied to the ECM in a grid pattern. The seed is applied to the ECM in a grid pattern.</p> <p><b>ADVANTAGES</b></p> <ul style="list-style-type: none"> <li>• A wide range of seed can be used by hand or by mechanical means, but are particularly effective for erosion control in the grassed area, and on steep, erodible slopes.</li> <li>• The ECM is made of a biodegradable material and is designed to be used in areas where erosion is a problem.</li> <li>• The ECM is made of a biodegradable material and is designed to be used in areas where erosion is a problem.</li> </ul> <p><b>DISADVANTAGES</b></p> <ul style="list-style-type: none"> <li>• The ECM is made of a biodegradable material and is designed to be used in areas where erosion is a problem.</li> <li>• The ECM is made of a biodegradable material and is designed to be used in areas where erosion is a problem.</li> </ul>

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Erosion Control Mats	continue with considerable wet installation experience for installation.	BMP	2	Department of Public Works
	<p><b>MAINTENANCE REQUIREMENTS</b></p> <p>Installation of erosion control mats is a highly labor and other equipment (O&amp;E) intensive activity. The mats must be installed in a timely manner to prevent erosion. Mats should be installed in a timely manner to prevent erosion. Mats should be installed in a timely manner to prevent erosion.</p>			

<h1>Mulching</h1>	<p>Application of straw or hay mulch should be approximately 2 tons per acre spread sufficiently across the disturbed area. Other material should be applied such that 25% of the mulch is visible through the weeds.</p> <p>For slopes greater than 15% the slope is greater than 5-8%, according to the results of a Volterra Trial is required.</p>	<p>EMF</p> <p>1</p>	<p>Department of</p>
	<p><b>MAINTENANCE REQUIREMENTS</b></p> <p>Mulches are subject to rotting by wind or water under adverse climatic conditions. Mulches lower the soil temperatures which may result in longer seed germination periods.</p> <p><b>MAINTENANCE REQUIREMENTS</b></p> <p>Mulches are usually made and other equipment is not used to apply mulch. For this reason, the mulch is not applied in a regular manner. The mulch is applied in a regular manner to maintain the mulch in a regular manner to maintain the mulch in a regular manner.</p>		



# Triangular Sachtment Filter Dike

1. 50% of time of use, by weight, contains the U.S. Standard sieve No. 200, which the equivalent opening size (E.O.S.) is equal to 75 (0.0075) mm.

2. Maximum aggregate opening size shall be 75 (0.0075) mm.

3. If 80% or more of the sand, by weight, passes the U.S. Standard sieve No. 200, the dike shall be considered to be sand and no aggregate.

4. The dike shall be composed of material which is not subject to significant expansion when the dike and other observations in order to properly remove sediment.

5. The waste of the dike shall be turned separate to prevent bypass of sediment.

**LIMITATIONS**

Pointing will only occur directly adjacent to the dike which may possibly cause flooding.

\* Engineer advised that there are not effective for conditions which include substantial concentrated flows or when they are not constructed about a center line due to the low potential for flow accumulation and overtopping.

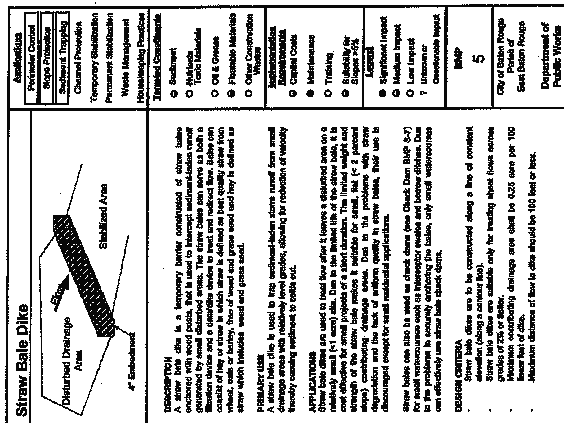
**MAINTENANCE REQUIREMENTS**

The dike must be inspected weekly by the contractor after (a) Old Island storm works. If the dike becomes damaged, it should be cleaned or if necessary, replaced.

Sediment should be removed when it reaches approximately 3 inches in depth. In addition, inspections should be made on a regular basis to check the structural integrity of the dike. If structural deficiencies are found, the dike should be immediately repaired or replaced.

As with all fences, integrity of the flow field is important to the effectiveness of the dike. Overlap between the sections must be checked on a regular basis and repaired if deficient.

SNAP	6
Preservation of Public Works	



## Straw Bale Dike

- Drawdowns for individual bales shall be 30 inches minimum length, 18 inches minimum height, 24 inches minimum width and shall weigh no less than 50 pounds when dry.
- Each straw bale shall be placed into an accelerated reach having a depth of 4 bales and a minimum of 12 inches between bales.
- Straw bales shall be finished in such a way that there is an "upcos" between bales.
- Individual bales shall be placed by hand or used straw rollers above a minimum depth of 4 bales below the 4' accelerated reach to macadamized ground, with the bale ends driven at an angle below the 4' accelerated reach to macadamized ground, with the bale ends driven at an angle below the 4' accelerated reach to macadamized ground.
- Straw bales shall be placed in a staggered pattern to prevent bypass of downstream.
- Flood bales on dike ends that headwinds are not posted.

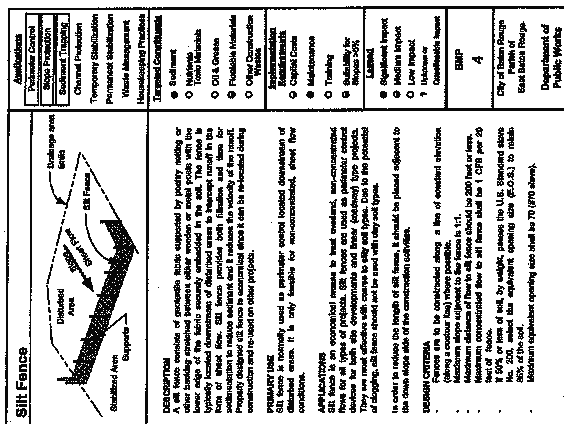
**MAINTENANCE REQUIREMENTS**

- Drawdowns of deep holes in reaching, sediment is very difficult, inoperably sediment, draw holes can't be removed in 3 months. During the wet test draw seasons, however, they must be repaired using temporary co's as determined by personnel responsible for material project.
- Straw bale dikes are not recommended to be used with concentrated flows of any kind except for small flows that in which they can serve as a check dam.

The effectiveness of deep holes in reaching, sediment is very difficult, inoperably sediment, draw holes can't be removed in 3 months. During the wet test draw seasons, however, they must be repaired using temporary co's as determined by personnel responsible for material project.

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Department of  
Public Works

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# Dust Control BMP

**MAINTAINANCE REQUIREMENTS**  
 Implement control measures frequently (up to daily, often daily, often daily).

**ADDITIONAL INFORMATION**  
 - Control measures require frequent maintenance.  
 - Control measures require frequent maintenance.  
 - Control measures require frequent maintenance.

**For the chemical industry, there are many products available in dust pellets for chemical production, general maintenance and repair.**

**In addition, there are many other BMPs identified in this:**

- Sealing and Painting
- Chemical Control
- Construction Road Stabilization
- Inland

**Department of Public Works**

**BMP**

**11**

<p><b>Check Dates</b></p>  <p><b>LAPSE DATES</b>          When permits will occur expiration of the check dates.          For heavy flows or high velocity flows, anticipate maintenance or replacement of the dams will be required.</p> <p><b>Check Areas are not a total finished landscape.</b></p> <p><b>MATERIALS REQUIREMENTS</b>          The materials used must conform to the standards set forth in the reinforcement requirements of the management practice used for the dam.</p>		<b>TWP</b> <b>10</b>	<b>Department of Public Works</b>
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Additions Permittee Control General Provision Chemical Trapping Chemical Treatment Temporary Installation Permanent Installation Waste Management Permittee Management Permittee Management	1. <input type="checkbox"/> Section 101 2. <input type="checkbox"/> Section 102 3. <input type="checkbox"/> Section 103 4. <input type="checkbox"/> Section 104 5. <input type="checkbox"/> Section 105 6. <input type="checkbox"/> Section 106 7. <input type="checkbox"/> Section 107 8. <input type="checkbox"/> Section 108 9. <input type="checkbox"/> Section 109 10. <input type="checkbox"/> Section 110 11. <input type="checkbox"/> Section 111 12. <input type="checkbox"/> Section 112 13. <input type="checkbox"/> Section 113 14. <input type="checkbox"/> Section 114 15. <input type="checkbox"/> Section 115 16. <input type="checkbox"/> Section 116 17. <input type="checkbox"/> Section 117 18. <input type="checkbox"/> Section 118 19. <input type="checkbox"/> Section 119 20. <input type="checkbox"/> Section 120 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Dewatering Operations		EMP	13
		Department of Public Works	
<p>- Contaminated water used for incineration to avoid further dispersion of property. However, following the problem before commencing is much more expensive than other for incineration was a problem.</p>			
<p>The presence of contaminated water may indicate contaminated soil as well. If contaminated water is present, the CONTRACTOR shall stop dewatering and immediately notify the PROGRAM MANAGER.</p>			
<p><b>MAINTENANCE REQUIREMENTS:</b>            Identify sediment collector and filter in good working order.            Inspect sediment sump daily for signs contaminated water as evidenced by discoloration, oil, sludge, or odors.</p>			

[illegible][illegible]

<h1>Urine Stabilization BMP</h1>		BMP# <b>16</b>	Department of Public Works
<p>Use of equipment faster with a dedicated 240 hour driveway time is encouraged for large projects where (see statement from user).</p>			
<p><b>MAINTENANCE</b></p> <p>These techniques are part of an overall plan to reduce pollutants from an urban construction site, in the case of pollution due to rain, prevention of contamination to the water resources and to address the problem of sedimentation. The use of these techniques will reduce the sedimentation problem and the significant possibility of rain will reduce the rain runoff.</p>			
<p><b>MAINTENANCE REQUIREMENTS</b></p> <p>Name:</p>			

[illegible]

Stone Outlet Sediment Trap	UNITED STATES DEPARTMENT OF THE ARMY WATERWAYS EXPERIMENTAL STATION Vicksburg, Mississippi 39180	DATE 19	DEPARTMENT OF Public Works
	1. <b>Problem Statement:</b> The sediment outlet trap is to be installed in the lower reaches of the Mississippi River, near the mouth of the Gulf of Mexico. The trap is to be installed in the lower reaches of the Mississippi River, near the mouth of the Gulf of Mexico. The trap is to be installed in the lower reaches of the Mississippi River, near the mouth of the Gulf of Mexico.		
2. <b>Objectives:</b> The objectives of this project are to design and construct a sediment outlet trap that will effectively remove sediment from the lower reaches of the Mississippi River, near the mouth of the Gulf of Mexico. The trap is to be installed in the lower reaches of the Mississippi River, near the mouth of the Gulf of Mexico.			
3. <b>Scope:</b> The scope of this project is to design and construct a sediment outlet trap that will effectively remove sediment from the lower reaches of the Mississippi River, near the mouth of the Gulf of Mexico. The trap is to be installed in the lower reaches of the Mississippi River, near the mouth of the Gulf of Mexico.			
4. <b>Methodology:</b> The methodology for this project is to design and construct a sediment outlet trap that will effectively remove sediment from the lower reaches of the Mississippi River, near the mouth of the Gulf of Mexico. The trap is to be installed in the lower reaches of the Mississippi River, near the mouth of the Gulf of Mexico.			
5. <b>Results:</b> The results of this project are that a sediment outlet trap has been designed and constructed that will effectively remove sediment from the lower reaches of the Mississippi River, near the mouth of the Gulf of Mexico. The trap is to be installed in the lower reaches of the Mississippi River, near the mouth of the Gulf of Mexico.			
6. <b>Conclusions:</b> The conclusions of this project are that a sediment outlet trap has been designed and constructed that will effectively remove sediment from the lower reaches of the Mississippi River, near the mouth of the Gulf of Mexico. The trap is to be installed in the lower reaches of the Mississippi River, near the mouth of the Gulf of Mexico.			
7. <b>Recommendations:</b> The recommendations of this project are that a sediment outlet trap has been designed and constructed that will effectively remove sediment from the lower reaches of the Mississippi River, near the mouth of the Gulf of Mexico. The trap is to be installed in the lower reaches of the Mississippi River, near the mouth of the Gulf of Mexico.			



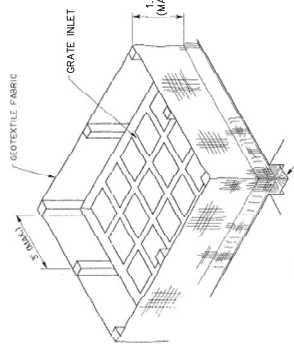








PROJECT NO.	
SHEET	129

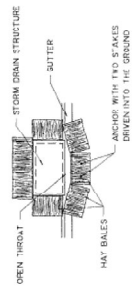


SECTION THRU TRENCH SHOWING GEOTEXTILE FABRIC

**NOTES:**  
The temporary drop inlet silt trap is to be used in areas where the storm drainage system is not stabilized. The trap can be either geotextile fabric or hay bales.

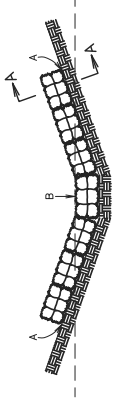
1. Wooden stakes supporting the fabric shall be 2" X 2" or 2" X 4" with a minimum length of 3 feet. The stakes shall be spaced around the perimeter of the trap.
2. The height of the fabric above the inlet shall be limited to 1.5' and the bottom of the fabric shall be buried in a trench approximately 4' wide by 4' deep.
3. The fabric shall be inspected regularly after each storm. The sediment should be removed and make sure each stake is firmly in the ground.
4. The geotextile fabric shall conform to Type F or G as per Standard Specifications.

ISOMETRIC VIEW SHOWING GEOTEXTILE FABRIC



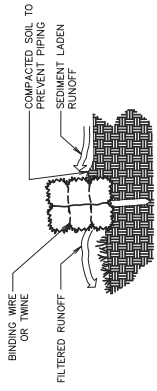
PLAN SHOWING HAY BALES

TEMPORARY INLET SILT TRAP



TEMPORARY SEDIMENT CHECK DAM (HAY)

**NOTES:**  
A hay bale barrier is a temporary sediment barrier. It is used to trap sediment and debris from runoff. The hay bale barrier is also used as a check dam to reduce the velocity in small ditches or swales. A few basic design guidelines for the use of a Hay Bale Barrier are:  
1. Use where erosion would occur in the form of sheet, rill, or gully erosion.  
2. Use in swales or ditches where the maximum drainage area is 2 acres.  
3. Only use where the effectiveness is required for less than 1 year.  
4. Do not use in live streams or in swales or ditches where there is a possibility of a washout.



SECTION A-A

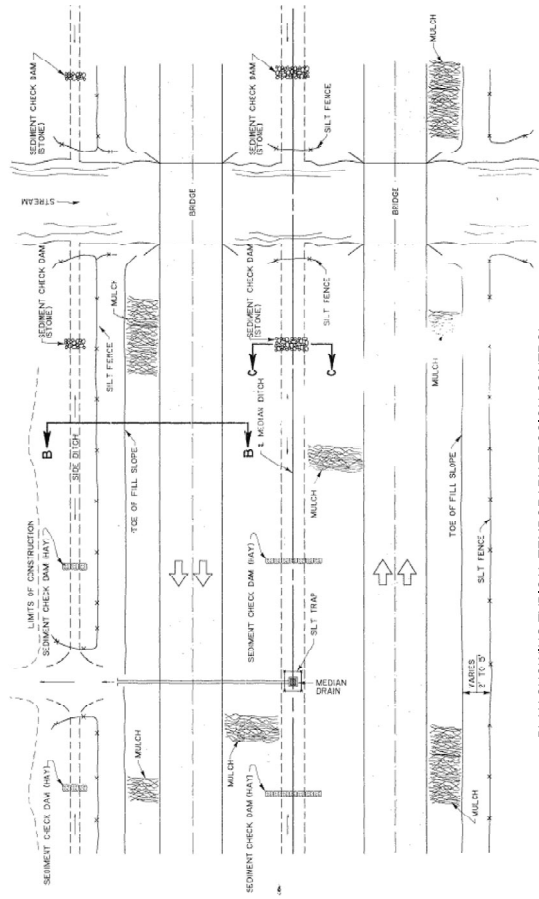
LADOTD Standard Plan EC-01 has been adopted with modifications for use by the City/Parish as Standard Plan 903-02.

STANDARD PLAN NO.	903-02
DATED	November 28, 2009
SHEET NO.	1 OF 2

TEMPORARY EROSION CONTROL INSTALLATION DETAILS

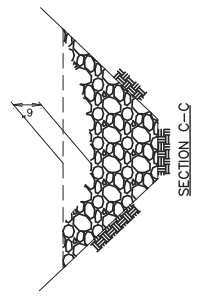


ENGINEERING DIVISION			
DEPARTMENT OF PUBLIC WORKS			
CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE			
DESIGNED	DRAWN	CHECKED	APPROVED
G. L. P.	G. WANCE	G. L. P.	T. STEPHENS



PLAN SHOWING TYPICAL TEMPORARY EROSION CONTROL

**MULCHES:**  
Mulches are the application of mats of material placed on the soil surface to prevent erosion. Mulches can be organic or synthetic. Mulches shall be in accordance with the Standard Specifications for mulches. A few guidelines for the use of Mulches are:  
1. Use on out and embankment slopes which have not been completed to plan grade or reasonable time.  
2. Use on bare, erodible, graded, and scalped areas where soil erosion is likely to occur.  
3. Use with temporary seeding.



SECTION C-C

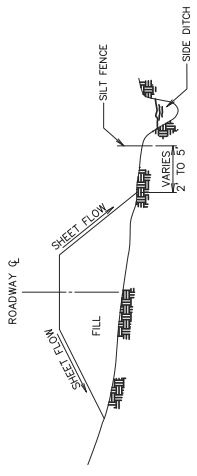
TEMPORARY SEDIMENT CHECK DAM (STONE)

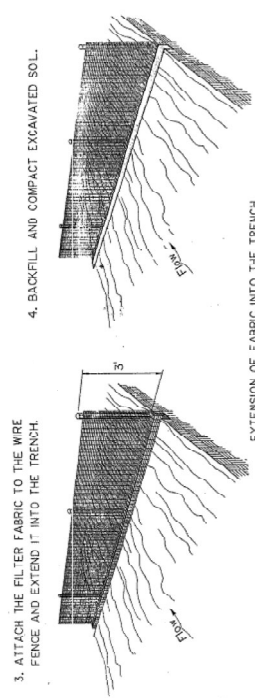
**NOTES:**  
A stone check dam is a small temporary dam constructed across a swale or drainage ditch. The purpose of this measure is to reduce the velocity of runoff and trap sediment. The stone check dam will trap small amounts of sediments generated in the ditch itself, however it should not be used as a sediment trapping device. A few basic design guidelines for the use of Stone Check Dams are:  
1. Use in a live stream.  
2. Do not use in a live stream.  
3. Use in a temporary ditch or swale which drain 10 acres or less.  
4. Use in permanent ditches or swales which will not receive a permanent lining for an extended period of time.  
5. Use in temporary or permanent ditches or swales which need protection from erosion.  
6. For stone specifications, see Section 705, 2b class.

SECTION B-B

TEMPORARY SILT FENCE APPLICATION

(FOR CONSTRUCTION DETAILS AND SPECIFICATIONS SEE SHEET 2 OF 2)





**NOTES:**

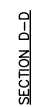
Silt fencing is a temporary sediment barrier consisting of a filter fabric support system stretched across an area to intercept and remove small amounts of sediment from runoff. Silt fences are designed to meet the Standard Specifications. A few basic guidelines for the use of Silt Fencing are:

1. Use where erosion would occur in the form of sheet and rill Erosion;
2. Use where the maximum drainage area behind the silt fence is:
  - ¼ acre per 100 feet of silt fence length;
  - 1/8 acre per 50 feet of silt fence length;
3. Use where the maximum slope length behind the barrier is 100 feet;
4. Do not use silt fences in streams or in ditches or swales where flow exceeds one cubic foot per second.

STANDARD PLAN NO. 903-02	DATED November 28, 1968	SHEET NO. 2 OF 2
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## TEMPORARY EROSION CONTROL INSTALLATION DETAILS

ENGINEERING DIVISION		
DEPARTMENT OF PUBLIC WORKS		
CITY ENGINEER AND PLANNING COMMISSIONER	DESIGNED BY	DATE
G. L. P.	G. WANNICE	11-28-68
CHECKED BY	APPROVED BY	
G. L. P.	T. STEPHENS	

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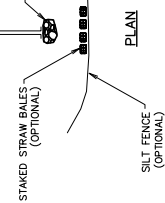
TEMPORARY STONE CONSTRUCTION ENTRANCE

- NOTES:**
- 1. TEMPORARY STONE CONSTRUCTION ENTRANCE AND/OR WASH RACK**
- A stone stabilized pad located at points of vehicular ingress and egress on the shoulder of the road, designed to prevent mud from being tracked onto roads. If the action of the vehicle traveling over the gravel pad is not sufficient to remove the majority of the mud, then the tires must be washed before the vehicle enters a public road. A few basic design guidelines for the use of a Stone Construction Entrance and/or Wash Racks are:
1. The stone layer must be a least 6 inches thick;
  2. The length of the pad must be at least 75 feet and it must extend the width of the road;
  3. A geotextile fabric underlayment is required. The geotextile fabric shall be Type D or per the Standard Underlayment;
  4. The pad must be made to intercept the wash water and trap the sediment before it is carried off-site.
  5. For stone specifications, see Section 705, 2b class.
  6. For stone specifications, see Section 705, 2b class.



**NOTES:**  
A Temporary slope drain is a device used to carry water from the construction work area to a lower elevation. Slope drains may be plastic sheets, metal or plastic pipe, stone gutters, fiber mats, or concrete or asphalt ditches. A few basic design guidelines for the use of a Temporary Slope Drain are:

1. 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
2. Slope drain material: Smooth pipe - 8 minimum  
Corrugated pipe - 12 minimum  
Plastic sheeting - 3 mils thick minimum
3. Plastic sheeting can be staked down or weighted with rocks or Logs. The area under and around the slope drain should be prepared to provide an adequate channel.
4. The slope drain should be installed in a trench deep enough to provide adequate channel energy. The flow should be directed through a sediment trap such as a slit
5. Trench or hay bale retention. temporary slope drains should be inspected regularly and after each storm, for clogging or displacement. Erosion of the outlet should be checked and the slit traps cleaned if necessary.



## TEMPORARY SLOPE DRAIN

PROJECT NO.	SHEET
	131

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 on Uniform Traffic Control Devices (MUTCD) and the City-Parish Standard Specifications for Public Works Construction, the current edition on Uniform Traffic Control Devices (MUTCD) and the National Cooperative Highway 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 Standard Specifications for Public Works Construction and shall be approved by the City-Parish Traffic Engineer and shall be approved by the City-Parish Traffic Engineer and shall be approved by the City-Parish Traffic Engineer and shall be approved by the City-Parish Traffic Engineer.
- No temporary traffic controls shall be erected without the approval of the City-Parish Traffic Engineer and shall be approved by the City-Parish Traffic Engineer and shall be approved by the City-Parish Traffic Engineer and shall be approved by the City-Parish Traffic Engineer.
- 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, maintenance, and operation of all temporary traffic control devices called for in these plans or required by the City-Parish Traffic Engineer and shall be approved by the City-Parish Traffic Engineer and shall be approved by the City-Parish Traffic Engineer and shall be approved by the City-Parish Traffic Engineer.
- All reflective devices such as signs, drums, barricades, or other traffic control devices shall be cleaned and maintained to ensure 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.
- 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 NOHP-350 approved portable sign frames.
- The City-Parish will approve any detour route marking required to guide travelers around the construction area, and the contractor will be responsible for the required signage.

SPEED LIMITS

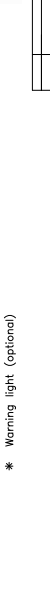
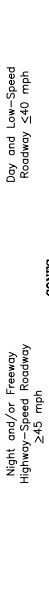
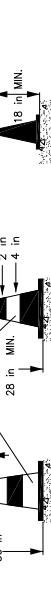
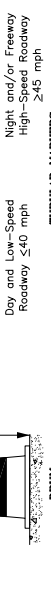
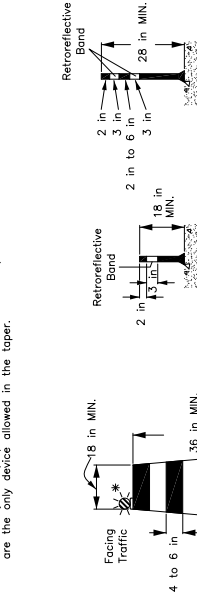
- Speed limits shall be lowered by Ten (10) mph for any construction, maintenance, or utility operation that requires one or more of the following: (A) the condition of the roadway is such that it is unsafe to travel at the posted speed limit; (B) work is in progress in the immediate vicinity of the travel way requiring lane closures, lane shifts, or lane shifts; (C) workers present on the roadway without barrier protection; (D) the edge of traveled way is not protected by a barrier.
  - 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.
- 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 condition be placed on a project until the condition 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 and replaced with a strong, lightweight, opaque material.
  - Warning signs used for temporary traffic controls shall meet the following guidelines unless otherwise noted in the plans: (A) size shall be Forty-Eight (48) ft X Forty-Eight (48) ft; (B) see the Department's Standard Specifications for Public Works Construction, the current edition on Uniform Traffic Control Devices (MUTCD) and the National Cooperative Highway Research Program (NCHRP) 350 for Test Level 3; (C) a minimum of Two (2) lb 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 top of the shoulder or the edge of the traveled way; (E) lateral distance of signs shall be a minimum of Six (6) ft from the edge of shoulder or edge of the back of curb in urban areas.
  - Vertical 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 roll up 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 or structures during the installation and removal of temporary operations shall be replaced at the Contractor's expense.

CHANNELIZING DEVICES

- The following devices may be used: Tubular Markers, Vertical panels, Cones, Drums, and Super Cones. Drums (at standard spacing) and Super Cones (at 1/2 Standard spacing) are the only devices allowed to be used in taper spacing. In the taper, tubular markers and drums may be used in conjunction with drums during night operations.
- Retroreflective material pattern used on super cones shall match that used on drums and conform to Section 1020-1.2(C) of the Standard Specifications.
- Spacing of channelizing devices such as cones, panels, drums, and Type I or II barricades shall not exceed a distance in feet equal to the speed limit when used for taper spacing. For tangent channelization, twice the speed limit when used for tangent channelization.
- Twenty-Eight (28) inch traffic cones are not allowed on: (1) Interstates, (2) Highways with speeds greater than Forty (40) mph.
- During night time operations: 1) Twenty-Eight (28) inch and Thirty-Six (36) inch cones are not allowed; 2) drums are the only device allowed in the taper.

BARRICADES

- Barricades shall be designed and applied in accordance with these Standard Plans and the current MUTCD guidance. Generally three types of barricades are used as below. Specific project applications shall be reviewed and approved by the City-Parish Traffic Engineer and shall not be deployed without such approval.
- Steady burn lights shall be used when barricades are used in a series for channelization.
- Type I barricades shall be used on low speed roads or urban streets.
- Type II barricades shall be used on high speed roads.
- Type III barricades shall be used to close a road section to traffic and shall extend completely across a roadway and its shoulders or from curb to curb.
- When signs and lights are to be mounted to a barricade, they must meet NOHP-350 requirements.



\* Warning light (optional)

September 10, 2009



TEMPORARY TRAFFIC CONTROL

STANDARD PLAN NO.	905-01	DATED	July 3, 2019	SHEET NO.	1 OF 2
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ENGINEERING DIVISION  
DEPARTMENT OF TRANSPORTATION  
AND DRAINAGE

CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE

DESIGNED BY: S. EDEL  
CHECKED BY: S. CHENG  
APPROVED BY: MUTCD

REVISIONS

DATE	DESCRIPTION
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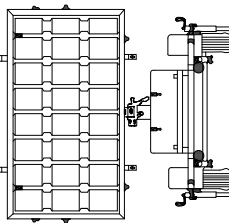
PROJECT NO.	SHEET
	132

## LIGHTING

- All temporary lighting shall be LED.
- Lighting shall supplement barricades that close one or both ends of a travel lane. When used to close one or both ends of a travel lane, a minimum of two lights will be used, but where a travel way ends immediately after a barricade, a minimum of one light will be used. The lighting shall be powered by a battery-operated unit. The lighting shall be approved by the Department of Transportation. Battery operated equipment shall conform to NIOSH 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.
- Sturdy, 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.

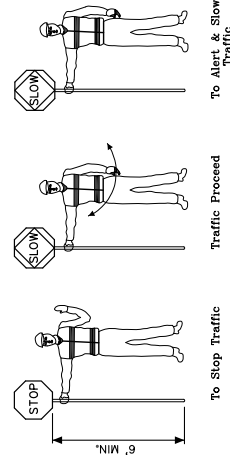
## PORTABLE CHANGEABLE MESSAGE SIGNS

- When working within the traveled way, including shoulders and auxiliary lanes, Changeable Message Signs (CMS) should be used on all Interstate Highways and on all other major roads with traffic volume greater than 10,000 vehicles per day. On roads with traffic volume less 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 illuminated with flashing amber lights. In the previous two (2) options are not feasible, they should be delineated with retroreflective TTC devices.



## FLAGGERS

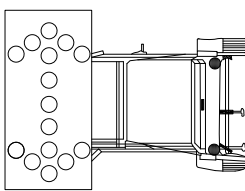
- All flaggers must be qualified. The contractor shall be responsible for training or assuring that all flaggers are qualified to perform flagging duties. A certificate of training for each flagger shall be maintained and shall be available to the engineer if requested. A Qualified Flagger is one that 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 diameter and a minimum Six (6) in./sec./slow paddle with a minimum 100 ft. stop distance. The flagger shall use ATSSA 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 can be alerted in time to take appropriate action. When entering the project 200–300 feet is desirable. In urban areas, the advance distances may be decreased.



### USE OF HAND SIGN

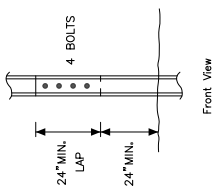
## FLASHING ARROW PANELS

- 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 as close to the line 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 methods are not feasible, they should be delineated with reflective TTC drums.



## ALLOWABLE LAP SPLICE FOR U-CHANNEL 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 bottom 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.



HIGHWAY—RAIL GRADE CROSSING

1. When a highway-rail grade crossing exists within or upstream of the merging ramp, it is anticipated that backups resulting from the lane closure might extend through the highway-rail grade crossing, the TTC zone should be extended to the highway-rail grade crossing. The merging ramp precedes the highway-rail grade crossing.
2. When a highway-rail grade crossing exists within the active area, provisions should be made to provide road users operating on the left side of the normal centerline with comparable warning devices as supplied for road users operating on the right side of the normal centerline.
3. When a highway-rail grade crossing exists within the active area, early coordination with the railroad company should occur before work starts.
4. When a highway-rail grade crossing exists within the active area, a flagger may be used at the highway-rail grade crossing. If the highway-rail grade crossing is stopped within Fifteen (15') ft of 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.

STANDARD PLAN NO. 905-01	DATED JULY 3, 2019	SHEET NO. 2 OF 2
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DATE	DESCRIPTION	BY	DESIGNED	DRAWN	CHECKED	APPROVED
			MUTCD	G. C. HENG	S. FDEL	I. PARTENHEIMER

PROJECT NO.	SHEET
	133

### ***Meaning of Symbols on Typical Application Diagrams***

Road Types	Distance Between Signs*		
	A	B	C
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 in a three-sign series encountered by a driver approaching a TTC zone.)

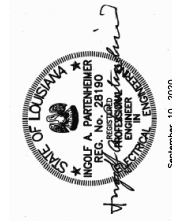
## Formulas for Determining Taper Lengths

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

Where:  
 L = taper length in feet  
 W = width of offset in feet  
 S = posted speed limit in mph.

Index to Typical Applications		
Typical Application Description	Typical Application Number	Standard Number
<b>Work Outside of Shoulder</b>		
Work Beyond the Shoulder	TA-1	905-03
Work on the Shoulder		
Shoulder Work	TA-3	905-03
Shoulder Work with Minor Encroachment	TA-6	905-04
<b>Work Within the Traveled Way of Two-Lane Highways</b>		
Road Closed with Division	TA-7	905-04
Road Closed with Off-Site Detour	TA-8	905-05
Lane Closure on Two-Lane Road Using Flaggers	TA-10	905-05
Lane Closure on Two-Lane Road with Low Traffic Volumes	TA-11	905-06
Temporary Road Closure	TA-13	905-06
Mobile Operations on Two-Lane Road	TA-17	905-07
<b>Work Within the Traveled Way of Urban Streets</b>		
Lane Closure on Minor Street	TA-18	905-07
Detour for One Travel Direction	TA-19	905-08
Detour for Closed Street	TA-20	905-08
<b>Work Within the Traveled Way at an Intersection and Sidewalks</b>		
Multiple Lane Closures at Intersection	TA-25	905-09
Crosswalk Closures and Pedestrian Detours	TA-29	905-09
<b>Work Within the Traveled Way of Multi-Lane, Non-access Controlled Highways</b>		
Interior Lane Closure on Multi-Lane Street	TA-30	905-10
Half Road Closure on Multi-lane, High-Speed Highway	TA-32	905-10
Lane Closure on Divided Highway	TA-33	905-11
<b>Work in the Vicinity of Highway-Rail Grade Crossings</b>		
Work in Vicinity of Highway-Rail Grade Crossing	TA-46	905-11

Information contained herewith was taken directly from the MUTCD 2003 version.



September 10, 2020

[illegible]

PROJECT NO.	
SHEET	134

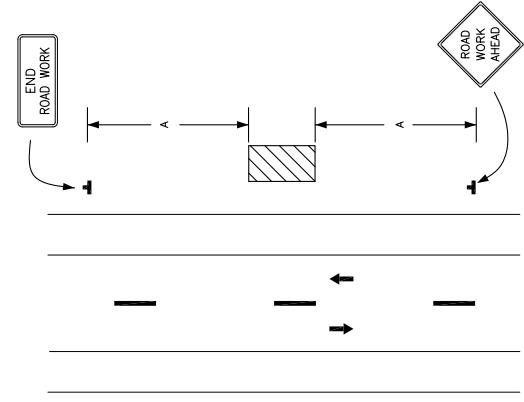


Figure TA-1  
Work Beyond the Shoulder

- NOTES:
1. If the work space is in the median of a divided highway, an advance warning 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, oscillating, 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.

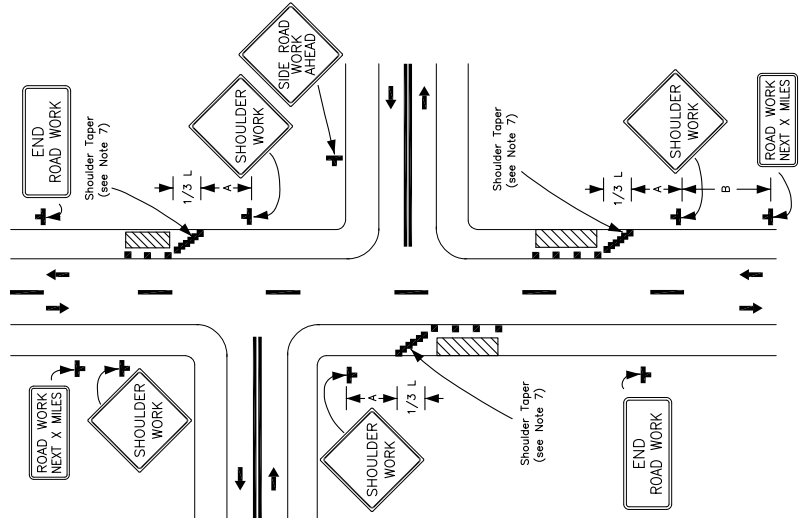


Figure TA-3  
Work on Shoulders

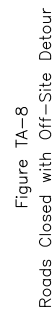
- NOTES:
1. A SHOULDER WORK sign should be placed on the left side of the roadway for a divided or one-way street only if the left shoulder is affected.
  2. The Workers symbol signs may be used instead of SHOULDER WORK signs.
  3. The SHOULDER WORK AHEAD sign on an intersecting roadway may be omitted 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. When the shoulder is closed, the advance warning sign shall be placed in advance of the taper, to provide adequate space and direct vehicular traffic to remain within the traveled way.



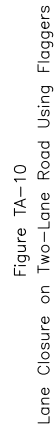
STANDARD PLAN NO.	905-03	DATED	JULY 3, 2019	SHEET NO.	1 OF 1
TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATIONS					

ENGINEERING DIVISION DEPARTMENT OF TRANSPORTATION AND DRAINAGE CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE					
DESIGNED	DRAWN	CHECKED	APPROVED		
MUTCD	G. CHENG	S. EDEL	L. PRINCEMEYER		

DATE	DESCRIPTION	BY
	REVISIONS	



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 the intersection and/or there are significant restrictions on travel, the ROAD CLOSED sign should be used.
3. DETOUR signs on Type III Barricades may be located at the edge of the traveled way.
4. A Route Sign Directional assembly may be placed on the far left corner of the intersection to augment or replace the one shown on the near right corner.
5. Flashing warning lights and/or flags may be used to call attention to the advance warning signs.
6. Cardinal direction plaques may be used with route signs.



- NOTES:
1. For low-volume situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger, positioned to be visible to road users approaching from both directions, may be used.
2. The ROAD WORK AHEAD and the END ROAD WORK signs may be omitted for short-duration operations.
3. Flashing warning lights and/or flags may be used to call attention to the advance warning signs.
  - a. A PREPARED TO STOP sign may be added to the sign series.
4. The buffer space should be extended so that the two-way traffic taper is placed before a horizontal (or crest vertical) curve to provide adequate sight distance for the flagger and a queue of stopped vehicles.
5. At night, flagger stations shall be illuminated, except in emergencies.
6. When used, the BE PREPARED TO STOP sign should be located behind the Flagger sign and the ONE LANE AHEAD sign.

STANDARD PLAN NO. 905-05	DATED JULY 3, 2019	SHEET NO. 1 OF 1
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## TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATIONS

ENGINEERING DIVISION			
DEPARTMENT OF TRANSPORTATION			
CITY OF BAYTON	DESIGNED BY	CHECKED BY	DATE
DESIGNED	DRAWN & PARASKEAS	FAST	BAYTON SOURCE
MUTCD	G. CHENG	S. EDEL	I. PARTENIKHER
		APPROVED	



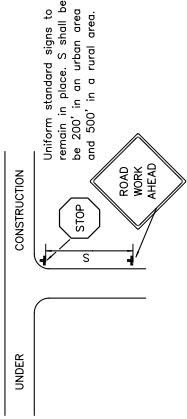
PROJECT NO.	
SHEET	136

The Side Road Work Ahead sign shall be used to indicate the location where the construction project on the side road approach terminates at the crossing.

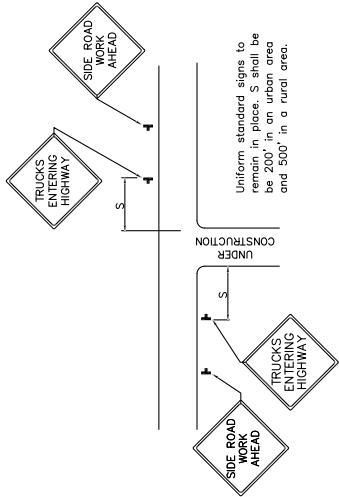


36" x 36"  
Legend 5" Series C

SIDE ROAD WORK AHEAD SIGN



SIGNING FOR SIDE ROAD APPROACH TO CONSTRUCTION PROJECT



Uniform standard signs to remain in place. S shall be 200' in an urban area and 500' in a rural area.

SIDE ROAD WORK



STANDARD PLAN NO.	905-30	DATED	JULY 3, 2019	SHEET NO.	1 OF 1
TEMPORARY TRAFFIC CONTROL LOCAL APPLICATIONS					
ENGINEERING DIVISION DEPARTMENT OF TRANSPORTATION AND DRAINAGE CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE					
DESIGNED	MUTCD	DRAWN	G. CHENG	CHECKED	S. EDEL
APPROVED					I. PATERNEER

DATE	DESCRIPTION	BY
	REVISIONS	

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