

INDEX OF SHEETS
SEE SHEET 2

STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED
STATE HIGHWAY IMPROVEMENT

EMERGENCY MAINTENANCE CONTRACT
PROJECT NO.: EMC632394001
CONTROL NO.: 6323-94-001

SH 87
JEFFERSON COUNTY

NET LENGTH OF PROJECT = 16,400' ± 3,1067 MI

LIMITS: VARIOUS LOCATIONS ALONG SH 87

FOR THE CONSTRUCTION OF AN EMERGENCY MAINTENANCE PROJECT
CONSISTING OF EMBANKMENT, SHEET PILING, AND STONE PROTECTION

FHWA TEXAS DIVISION	FEDERAL AID PROJECT NO.	SHEET NO.
STATE	DISTRICT	COUNTY
TEXAS	BMT	JEFFERSON
CONTROL	SECTION	JOB
6323	94	001
		SH 87

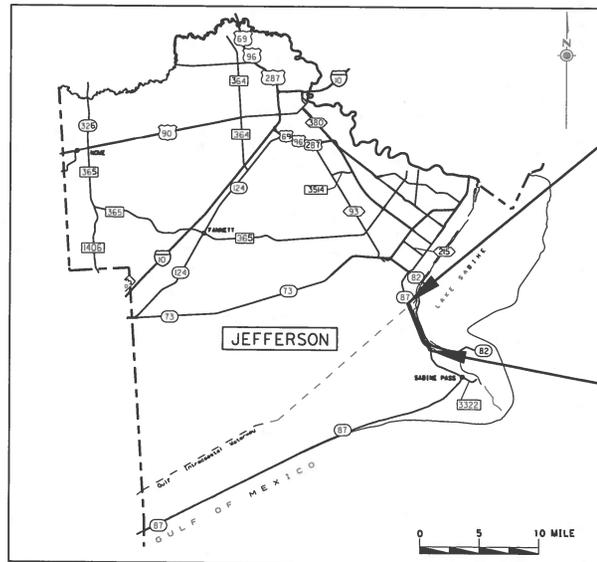
MGR. NO. - 51
A.D.T.(2005)=2,639
A.D.T.(2035)=5,280

FINAL PLANS

DATE LET : _____
 DATE WORK BEGAN: _____
 DATE WORK COMPLETED: _____
 CONTRACTOR: _____
 USED _____ OF _____ DAYS ALLOTTED
 PROJECT COST: _____
 PROJECT CONSTRUCTED AND FINAL
 PLANS PREPARED BY: _____
 _____ DATE

REQUIRED SIGNS SHALL BE IN ACCORDANCE WITH
BC 00-14 THRU BC 021-14 AND THE "TEXAS MANUAL
ON UNIFORM TRAFFIC CONTROL DEVICES".

ELEVATIONS ON STATION DATUM
STATION 8770570, SABINE PASS NORTH, TX
UNITS: FEET
EPOCH: (/datum_options.htm#NTDE) 1983-2001
MHW (MEAN HIGH WATER) = 1.18ft NAVD88



BEGIN PROJECT
EMC 6323-94-001
STA 234+00
29.813691°
-93.960261°

END PROJECT
CSJ 6323-94-001
STA 398+00
29.772876°
-93.939400°

EXCEPTIONS: NONE
EQUATIONS: NONE
RAILROAD CROSSINGS: NONE



SUBMITTED FOR LETTING:

PROJECT ENGINEER

RECOMMENDED FOR LETTING:

DISTRICT DIRECTOR OF MAINTENANCE

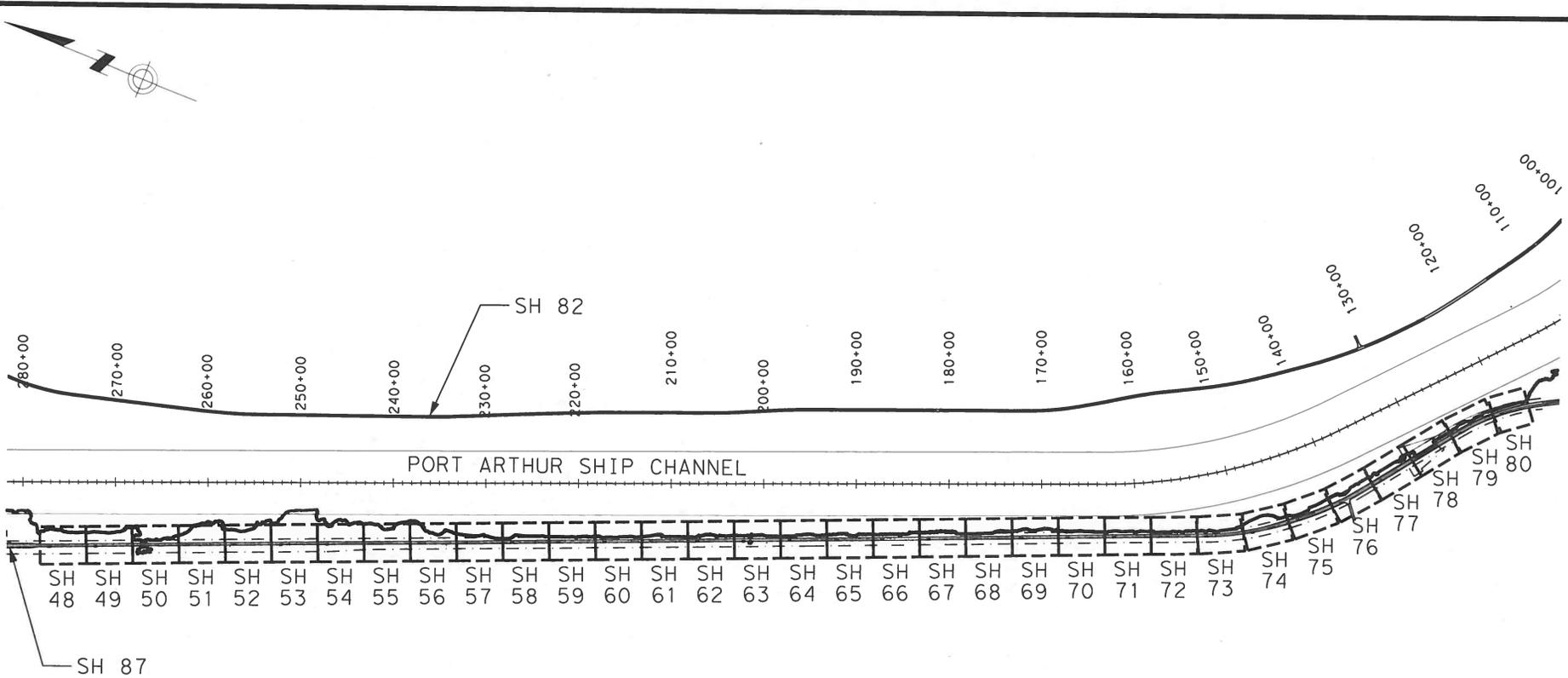
APPROVED FOR LETTING:

DISTRICT ENGINEER

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION,
NOVEMBER 1, 2014 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS,
SHALL GOVERN ON THIS PROJECT! REQUIRED CONTRACT PROVISIONS FOR
ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, MAY 2012)

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SH 87
REGULATORY PERMIT
#SWG-2012-00680



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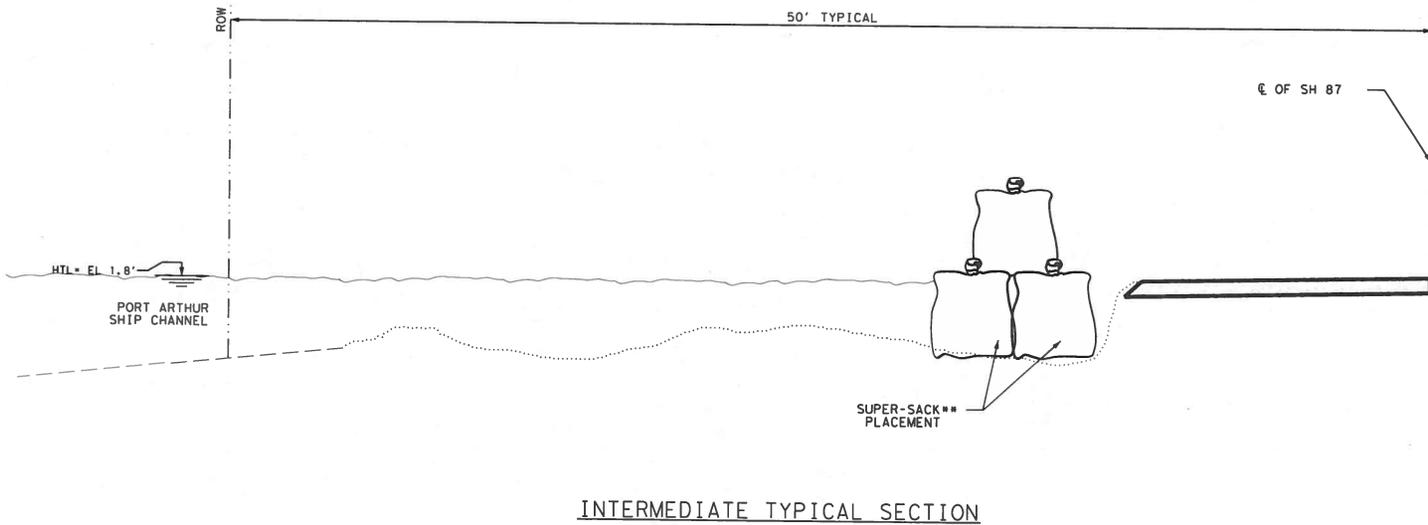
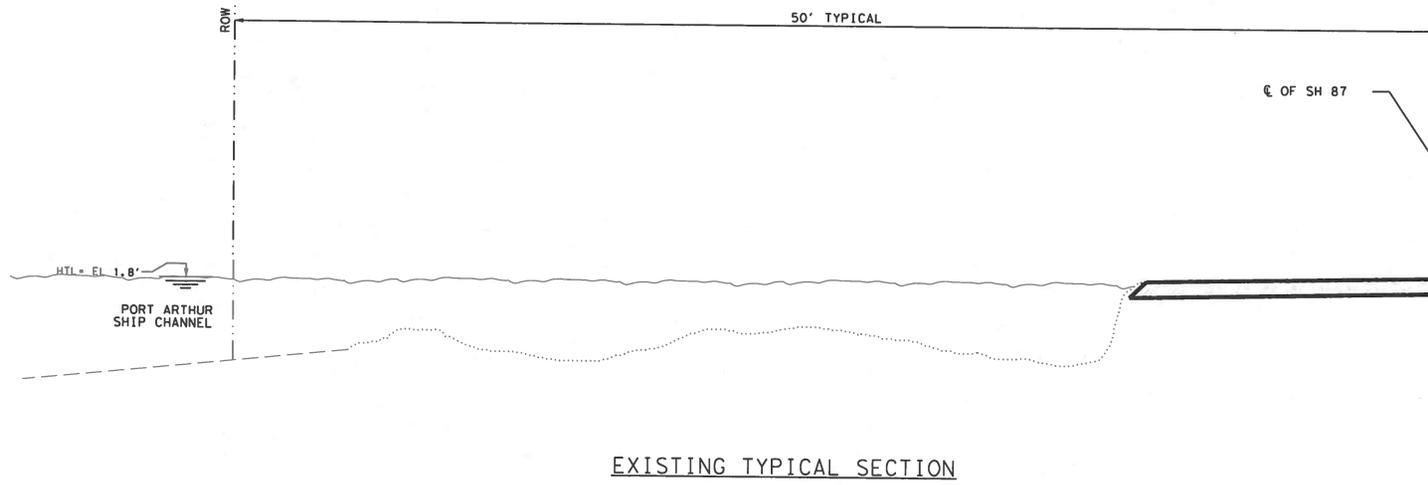
SH 87 SHEET LOCATION MAP

NTS

Texas Department of Transportation

SHEET 1 OF 1

FEDERAL AID PROJECT NO.	SHEET NO.		
	3A		
STATE	DISTRICT	COUNTY	
TEXAS	BMT	JEFFERSON	
CONTROL	SECTION	JOB	HIGHWAY NO.
6323	94	001	SH 87



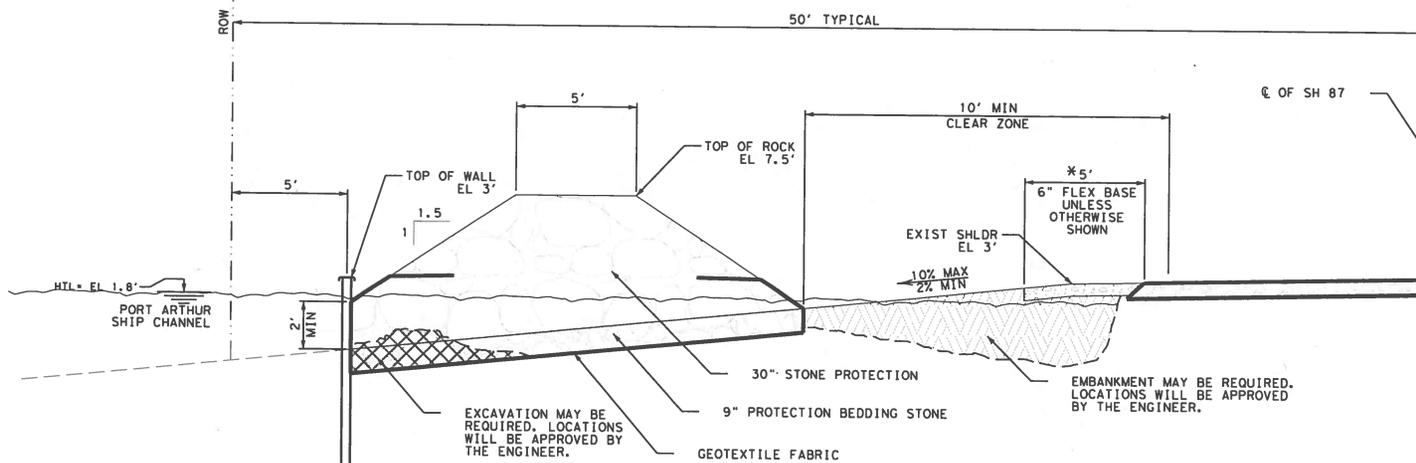
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** SEE ADDITIONAL DETAILS FOR SUPER SACK PLACEMENT

SH 87
TYPICAL
SECTIONS
 NTS

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 SHEET 1 OF 3

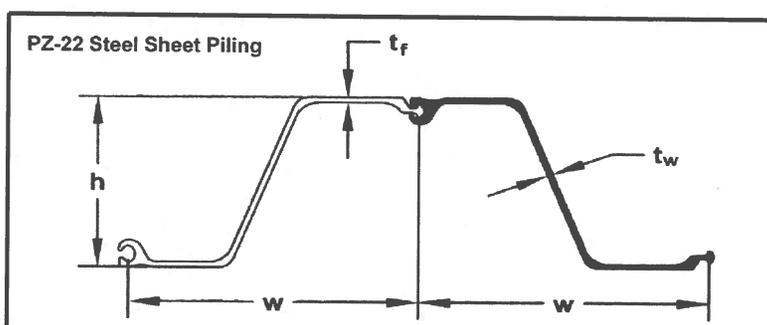
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	4		
STATE	DISTRICT	COUNTY	
TEXAS	BMT	JEFFERSON	
CONTRACT NO.	SECTION NO.	JOB NO.	ROADWAY NO.
6323	94	001	SH 87



FINAL TYPICAL SECTION
SECTION WITH SHEET PILE

** 9" x 22" x 25' PZ-22 SHEET PILE, SEE DETAIL A (FURNISHED BY THE CONTRACTOR) TO BE INSTALLED AT ALL LOCATIONS EXCEPT KEITH LAKE BRIDGE

** 9" x 22" x 30'-4" PZ-22 SHEET PILE, SEE DETAIL A TO BE PLACED ADJACENT TO KEITH LAKE BRIDGE (FURNISHED BY THE STATE) ONLY TO BE INSTALLED AT KEITH LAKE LOCATION



Specification: ASTM A572 Grade 50

Section	Width		Height	Thickness	Cross Sectional Area	Weight		Section Modulus	Moment of Inertia	Coating Area Both	Coating Area
	w	In				lb/ft	kg/m ²				
PZ-22	22.00	9.00	0.375	11.86	40.30	22.00	18.10	84.40	4.48	1.22	
	559	229	9.50		60.00	107.40	973	11500	1.37	1.22	

DETAIL A

* TY E GR1-2 FLEX BASE SALVAGED FROM SUPER SACKS SHALL BE USED UNTIL IT IS DEPLETED. USE TY A GR1-2 FOR ANY ADDITIONAL FLEX BASE THAT IS NEEDED.

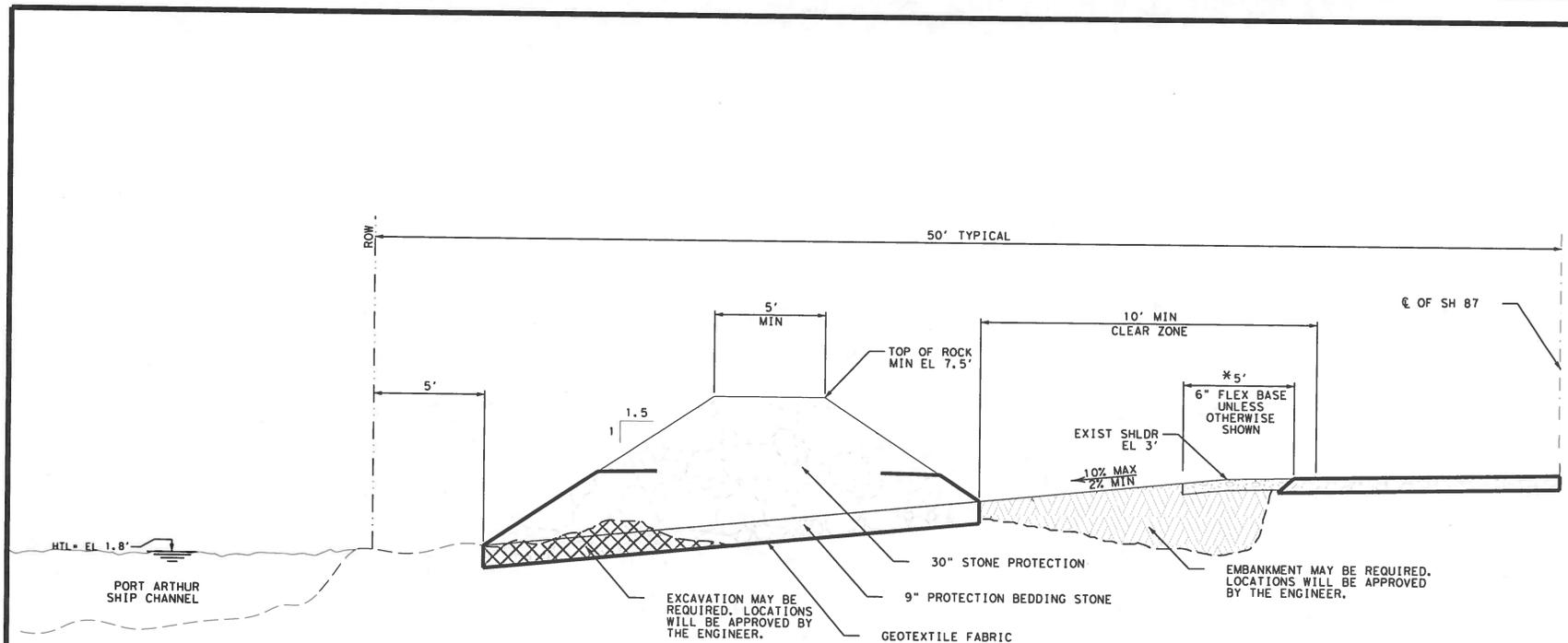
** SEE PLAN LAYOUTS FOR SHEET PILE LOCATIONS

SH 87
TYPICAL SECTIONS
NTS

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FORM REVISION	FEDERAL #10 PROJECT NO.	SHEET NO.
		5
STATE	DISTRICT	COUNTY
TEXAS	BMT	JEFFERSON
CONTRACT	SECTION	JOB NUMBER
6323	94	001 SH 87

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EXCAVATION MAY BE REQUIRED. LOCATIONS WILL BE APPROVED BY THE ENGINEER.

EMBANKMENT MAY BE REQUIRED. LOCATIONS WILL BE APPROVED BY THE ENGINEER.

FINAL TYPICAL SECTION
SECTION WITHOUT SHEET PILE

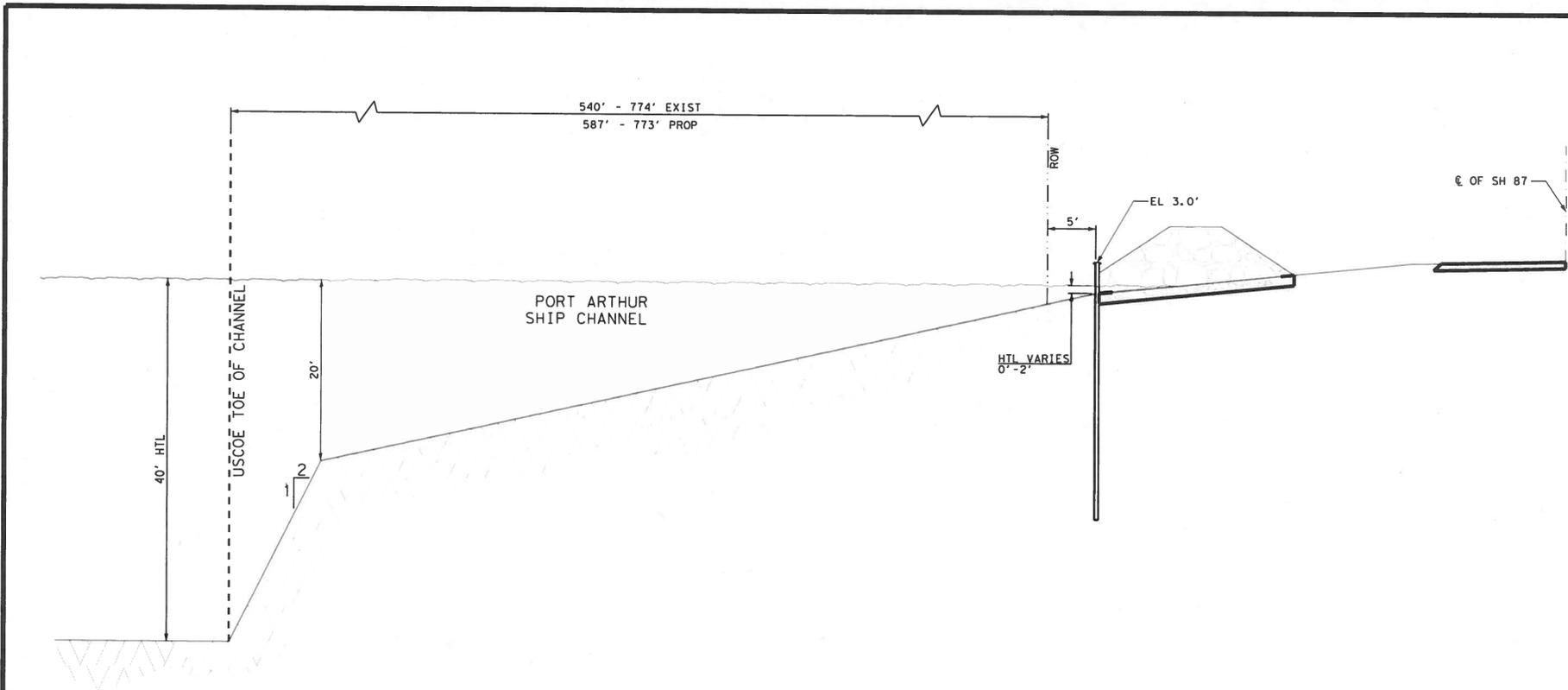
* TY E GRI-2 FLEX BASE SALVAGED FROM SUPER SACKS SHALL BE USED UNTIL IT IS DEPLETED. USE TY A GRI-2 FOR ANY ADDITIONAL FLEX BASE THAT IS NEEDED.

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DATE: 10/16/2017 2:45:41 PM

SH 87
TYPICAL SECTIONS
NTS

Texas Department of Transportation

STATE		FEDERAL AID PROJECT NO.		SHEET	
TEXAS		6		6	
STATE	DISTRICT	COUNTY			
TEXAS	BMT	JEFFERSON			
CONTROL	SECTION	JOB	REVISION NO.		
6323	94	001	SH 87		



PROPOSED TYPICAL CHANNEL SECTION

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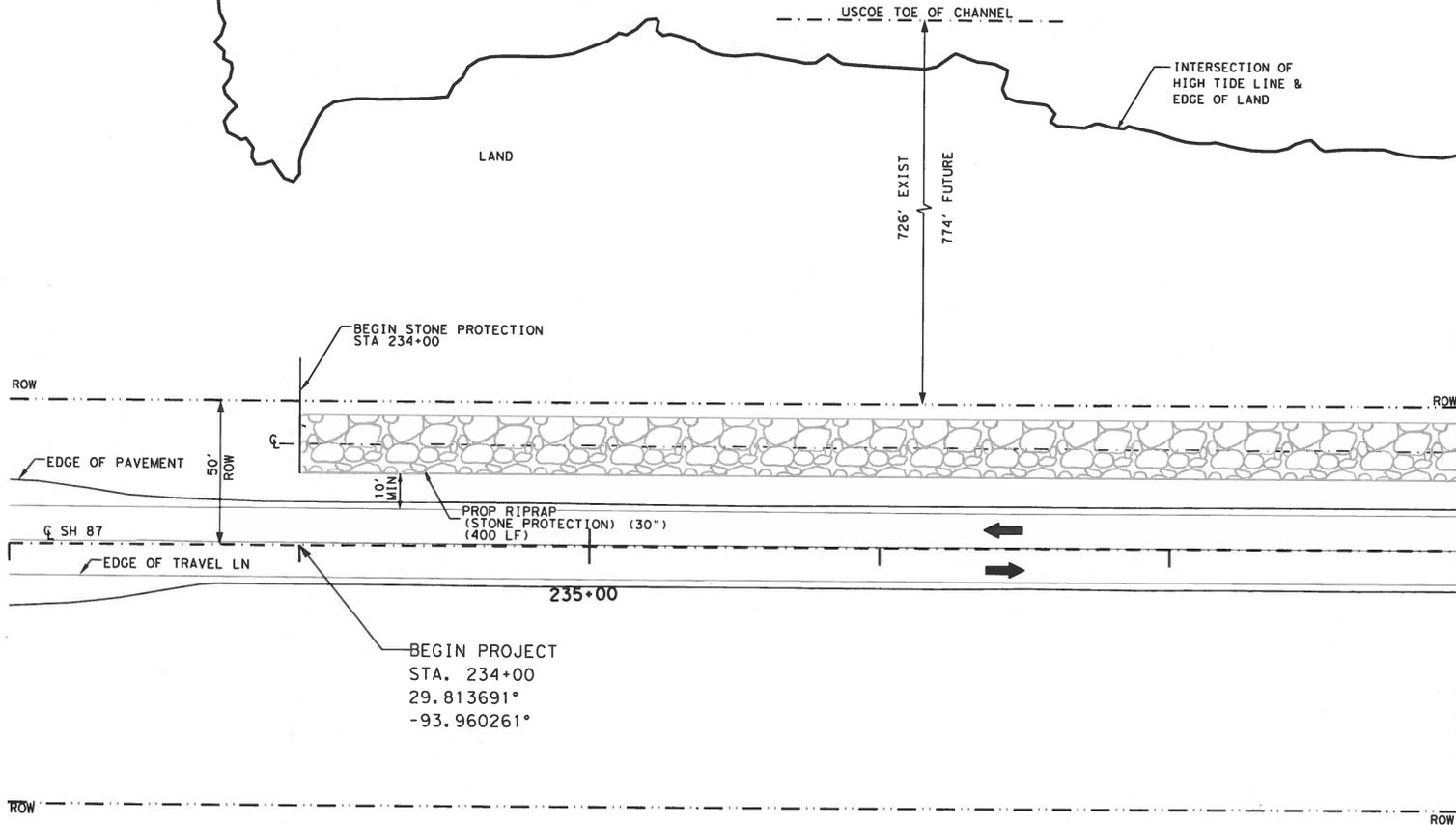
SH 87
TYPICAL CHANNEL SECTION

NTS
Texas Department of Transportation

SHEET 1 OF 1			
FHWA DIVISION	FEDERAL AID PROJECT NO.	SHEET NO.	
TEXAS	BMT	7	
STATE	DISTRICT	COUNTY	
TEXAS	BMT	JEFFERSON	
CONTROL	SECTION	JOB	HIGHWAY NO.
6323	94	001	SH 87



PORT ARTHUR SHIP CHANNEL



LEGEND

- SHEETPILE
- STONE PROTECTION
- FILL IN WOUS
- SUPER SACKS

FILE: Y:\LOCAL\BMT 40-MO\Emergency+Contract\adon\CORPS PLANS\SH87 EROSION REPAIR SHEET 1 (STA 233+00 to 238+00).dgn
 DATE: 10/16/2012 12:45:47 PM

LINEAR FEET OF STONE PROTECTION	400 LF
LINEAR FEET OF SHEET PILE	0 LF
VOLUME OF FILL BELOW HTL (FILL IN WOUS)	0 CY

SH 87
 LAYOUT SHEETS
 SCALE IN FEET
 SHEET 1 OF 33



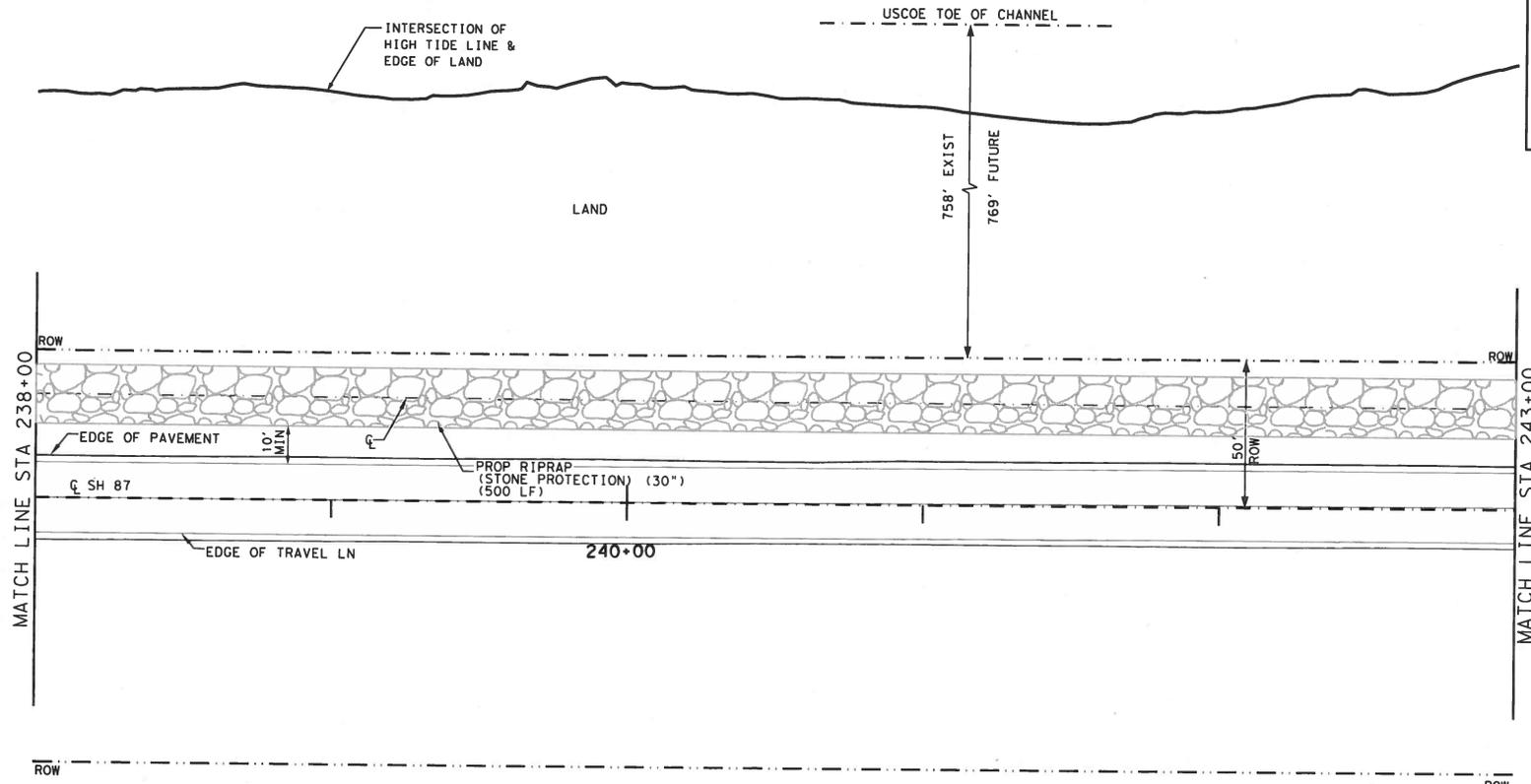
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6				48
STATE	DISTRICT	COUNTY		
TEXAS	BMT	JEFFERSON		
CONTROL	SECTION	JOB	HIGHWAY NO.	
6323	94	001	SH 87	



PORT ARTHUR SHIP CHANNEL

LEGEND

-  SHEETPILE
-  STONE PROTECTION
-  FILL IN WOVS
-  SUPER SACKS



LINEAR FEET OF STONE PROTECTION	500 LF
LINEAR FEET OF SHEET PILE	0 LF
VOLUME OF FILL BELOW HTL (FILL IN WOVS)	0 CY

SH 87
LAYOUT SHEETS



SHEET 2 OF 33

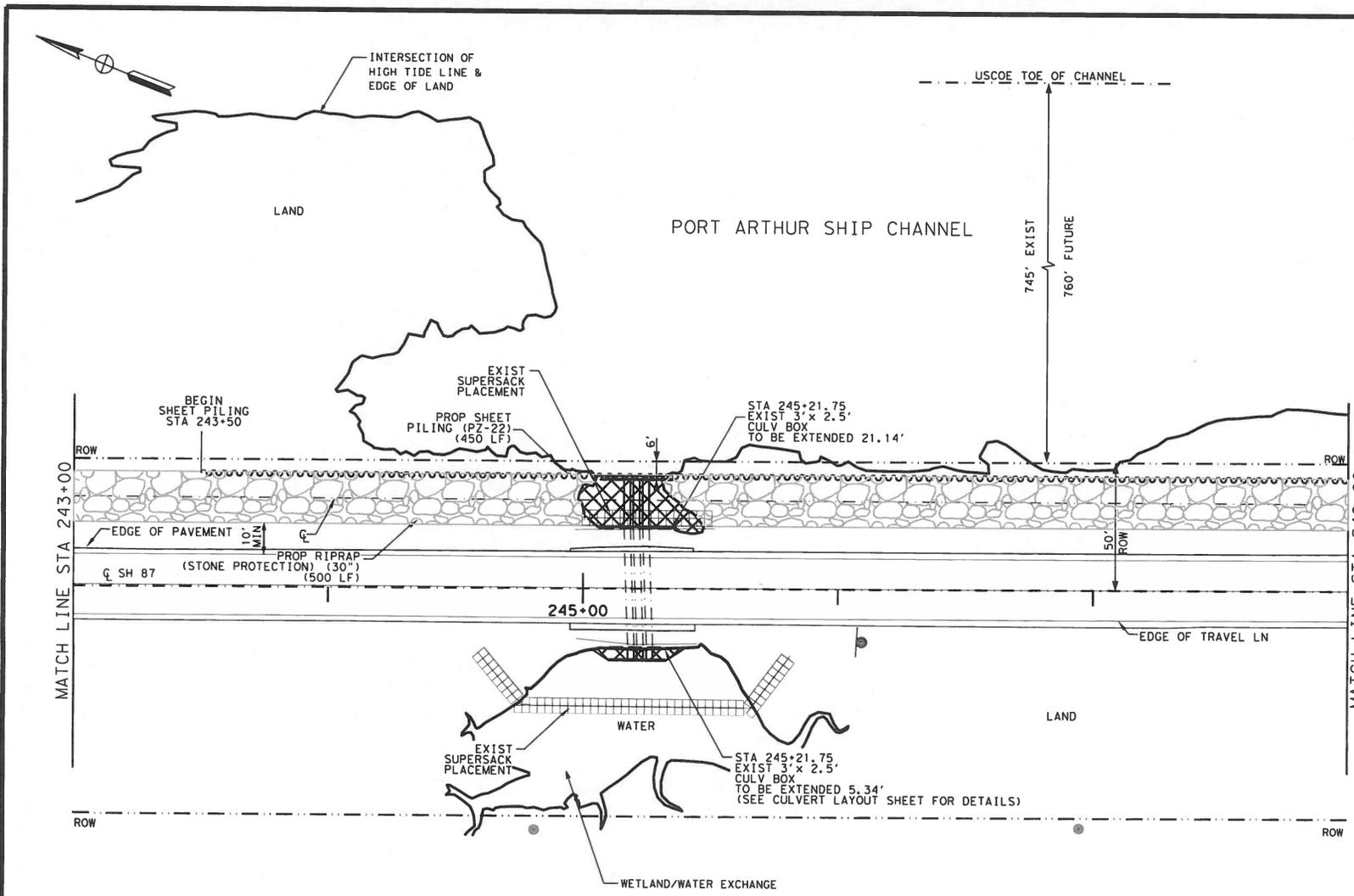


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6			49
STATE	DISTRICT	COUNTY	
TEXAS	BMT	JEFFERSON	
CONTROL	SECTION	JOB	HIGHWAY NO.
6323	94	001	SH 87

LEGEND

- SHEETPILE
- STONE PROTECTION
- FILL IN WOUS
- SUPER SACKS



LINEAR FEET OF STONE PROTECTION	500 LF
LINEAR FEET OF SHEET PILE	450 LF
VOLUME OF FILL BELOW HTL (FILL IN WOUS)	33.47 CY

SH 87
LAYOUT SHEETS

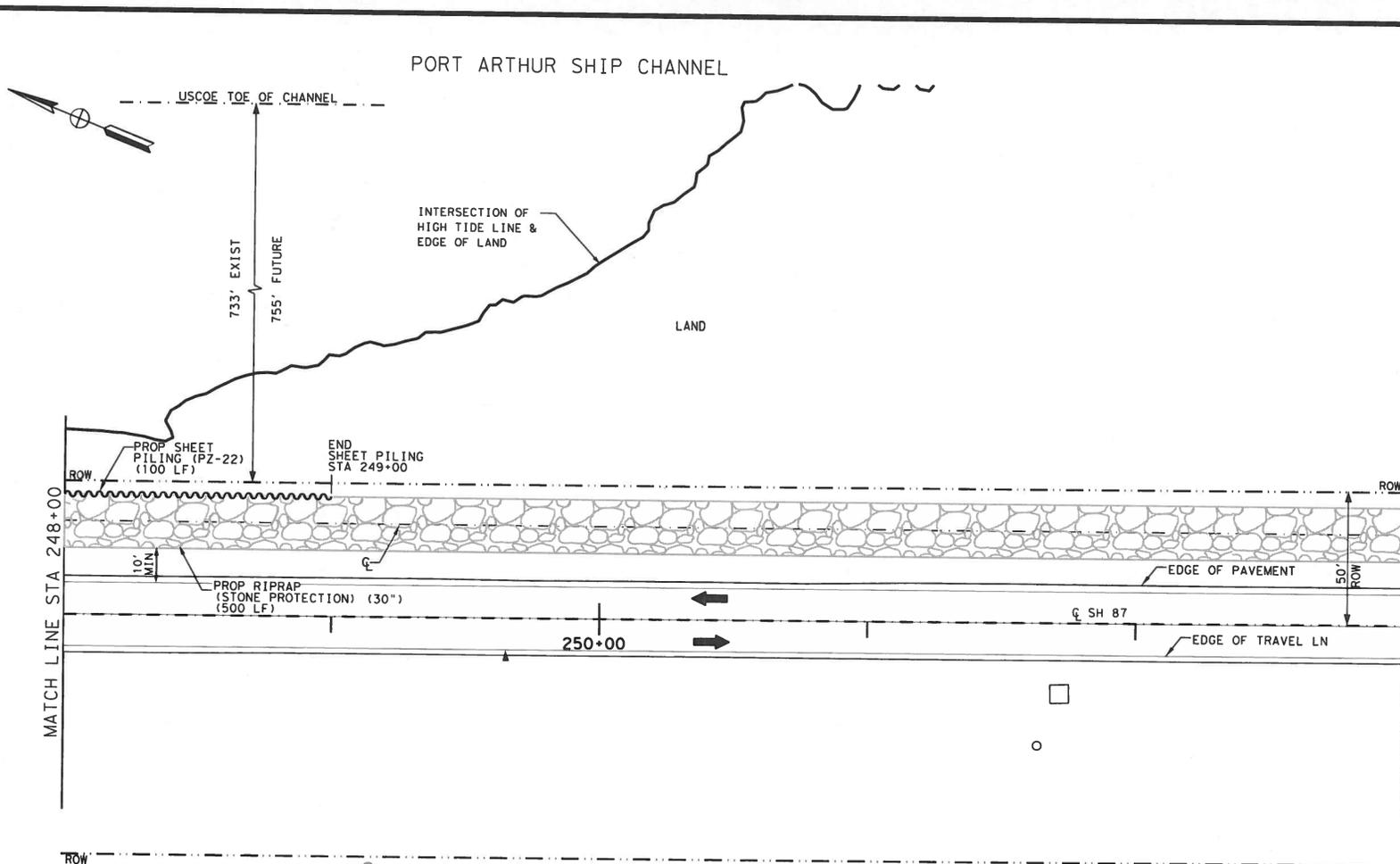
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SCALE IN FEET

SHEET 3 OF 33

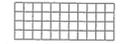


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6		50	
STATE	DISTRICT	COUNTY	
TEXAS	BMT	JEFFERSON	
CONTROL	SECTION	JOB	HIGHWAY NO.
6323	94	001	SH 87

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 DATE: 10/16/2017 2:45:52 PM



LEGEND

-  SHEETPILE
-  STONE PROTECTION
-  FILL IN WOUSS
-  SUPER SACKS

LINEAR FEET OF STONE PROTECTION	500 LF
LINEAR FEET OF SHEET PILE	100 LF
VOLUME OF FILL BELOW MHT (FILL IN WOUSS)	0 CY

SH 87 LAYOUT SHEETS

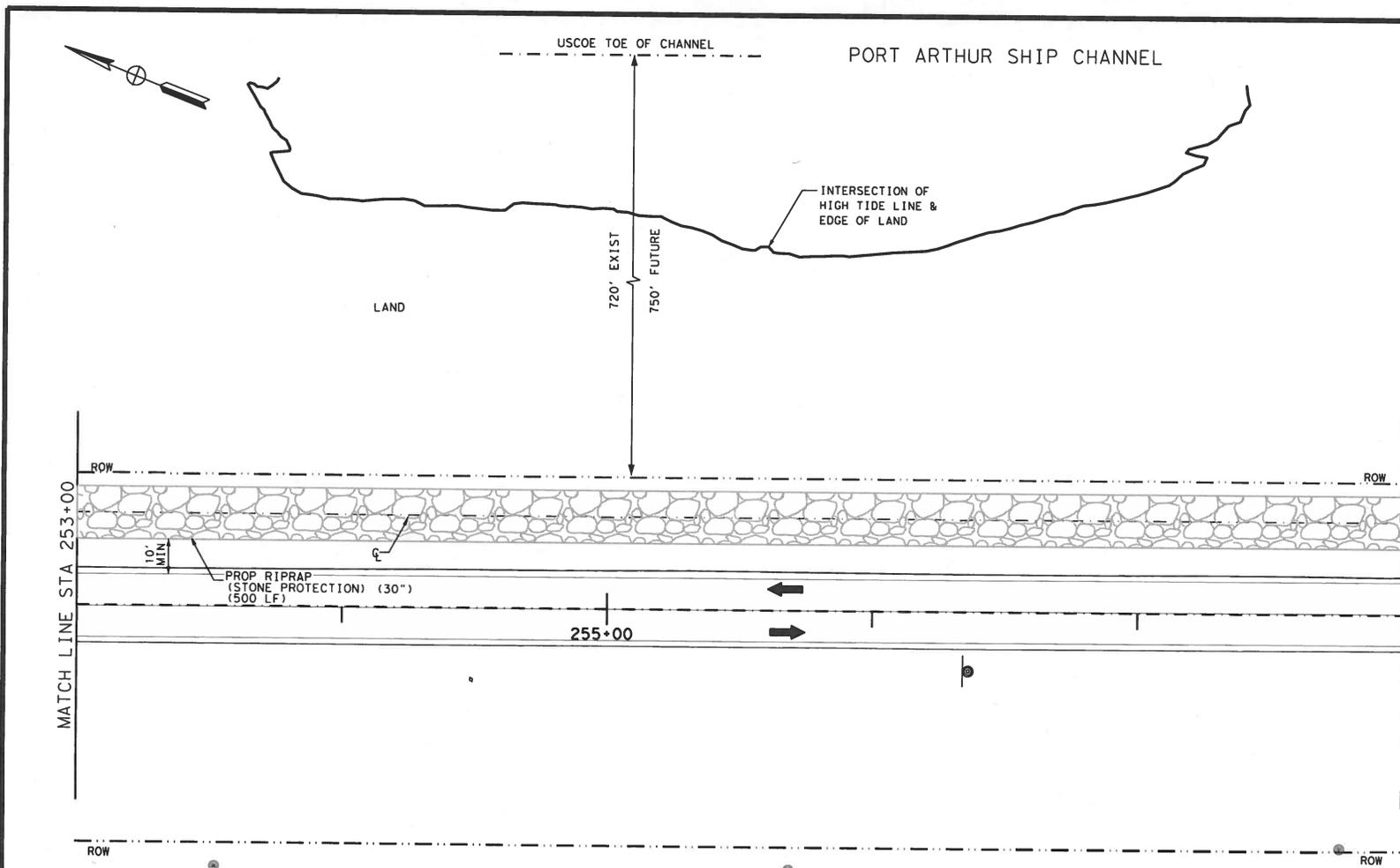


SHEET 4 OF 33

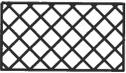
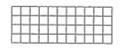
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6			51
STATE	DISTRICT	COUNTY	
TEXAS	BMT	JEFFERSON	
CONTROL	SECTION	JOB	HIGHWAY NO.
6323	94	001	SH 87



LEGEND

-  SHEETPILE
-  STONE PROTECTION
-  FILL IN WOUS
-  SUPER SACKS

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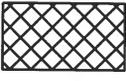
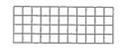
LINEAR FEET OF STONE PROTECTION	500 LF
LINEAR FEET OF SHEET PILE	0 LF
VOLUME OF FILL BELOW HTL (FILL IN WOUS)	0 CY

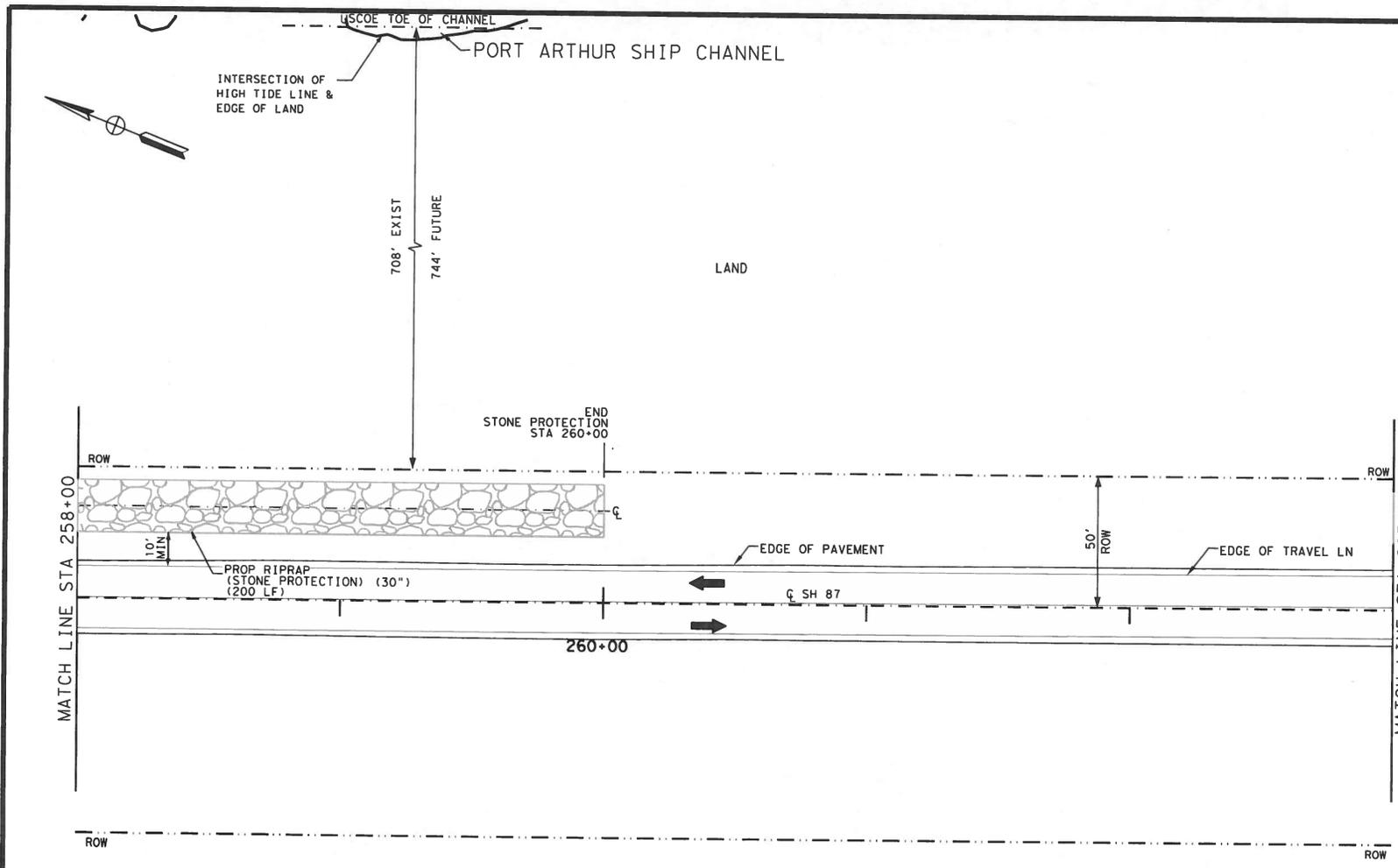
SH 87
 LAYOUT SHEETS
 SCALE IN FEET
 SHEET 5 OF 33



FED. RD. DIV. NO.	MAINTENANCE PROJECT		SHEET NO.
6			52
STATE	DISTRICT	COUNTY	
TEXAS	BMT	JEFFERSON	
CONTROL	SECTION	JOB	HIGHWAY NO.
6323	94	001	SH 87

LEGEND

-  SHEETPILE
-  STONE PROTECTION
-  FILL IN WOUS
-  SUPER SACKS



LINEAR FEET OF STONE PROTECTION	200 LF
LINEAR FEET OF SHEET PILE	0 LF
VOLUME OF FILL BELOW HTL (FILL IN WOUS)	0 CY

**SH 87
LAYOUT SHEETS**

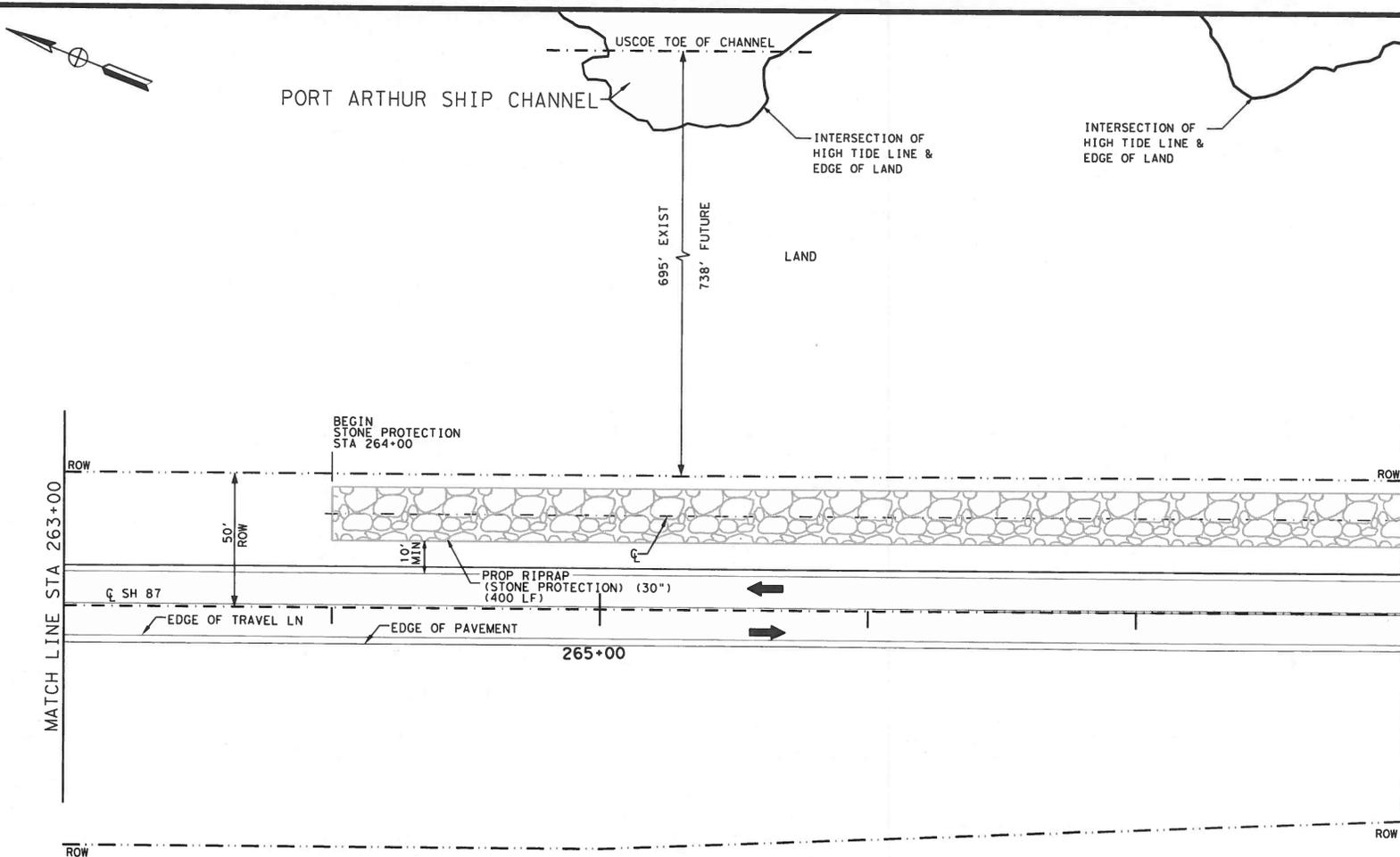


SHEET 6 OF 33

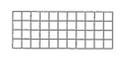


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6			53
STATE	DISTRICT	COUNTY	
TEXAS	BMT	JEFFERSON	
CONTROL	SECTION	JOB	HIGHWAY NO.
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LEGEND

-  SHEETPILE
-  STONE PROTECTION
-  FILL IN WOUS
-  SUPER SACKS

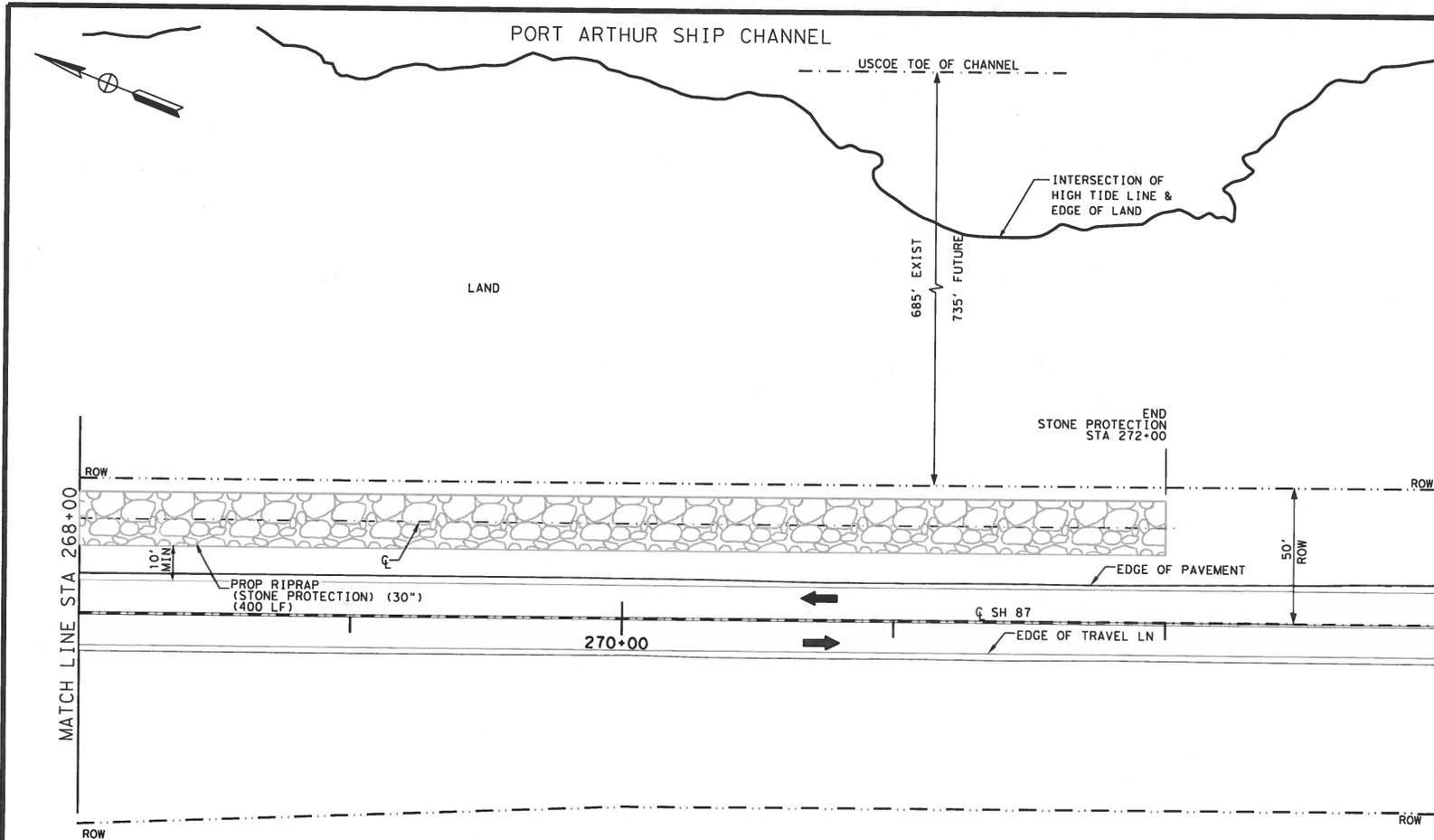
LINEAR FEET OF STONE PROTECTION	400 LF
LINEAR FEET OF SHEET PILE	0 LF
VOLUME OF FILL BELOW HTL (FILL IN WOUS)	0 CY

SH 87
LAYOUT SHEETS
 SCALE IN FEET
 SHEET 7 OF 33



FED. RD. DIV. NO.	MAINTENANCE PROJECT			SHEET NO.
6				54
STATE	DISTRICT	COUNTY		
TEXAS	BMT	JEFFERSON		
CONTROL	SECTION	JOB	HIGHWAY NO.	
6323	94	001	SH 87	

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 DATE: 10/16/2017 2:46:01 PM



LEGEND

- SHEET PILE
- STONE PROTECTION
- FILL IN WOUS
- SUPER SACKS

LINEAR FEET OF STONE PROTECTION	400 LF
LINEAR FEET OF SHEET PILE	0 LF
VOLUME OF FILL BELOW HTL (FILL IN WOUS)	0 CY

SH 87
LAYOUT SHEETS

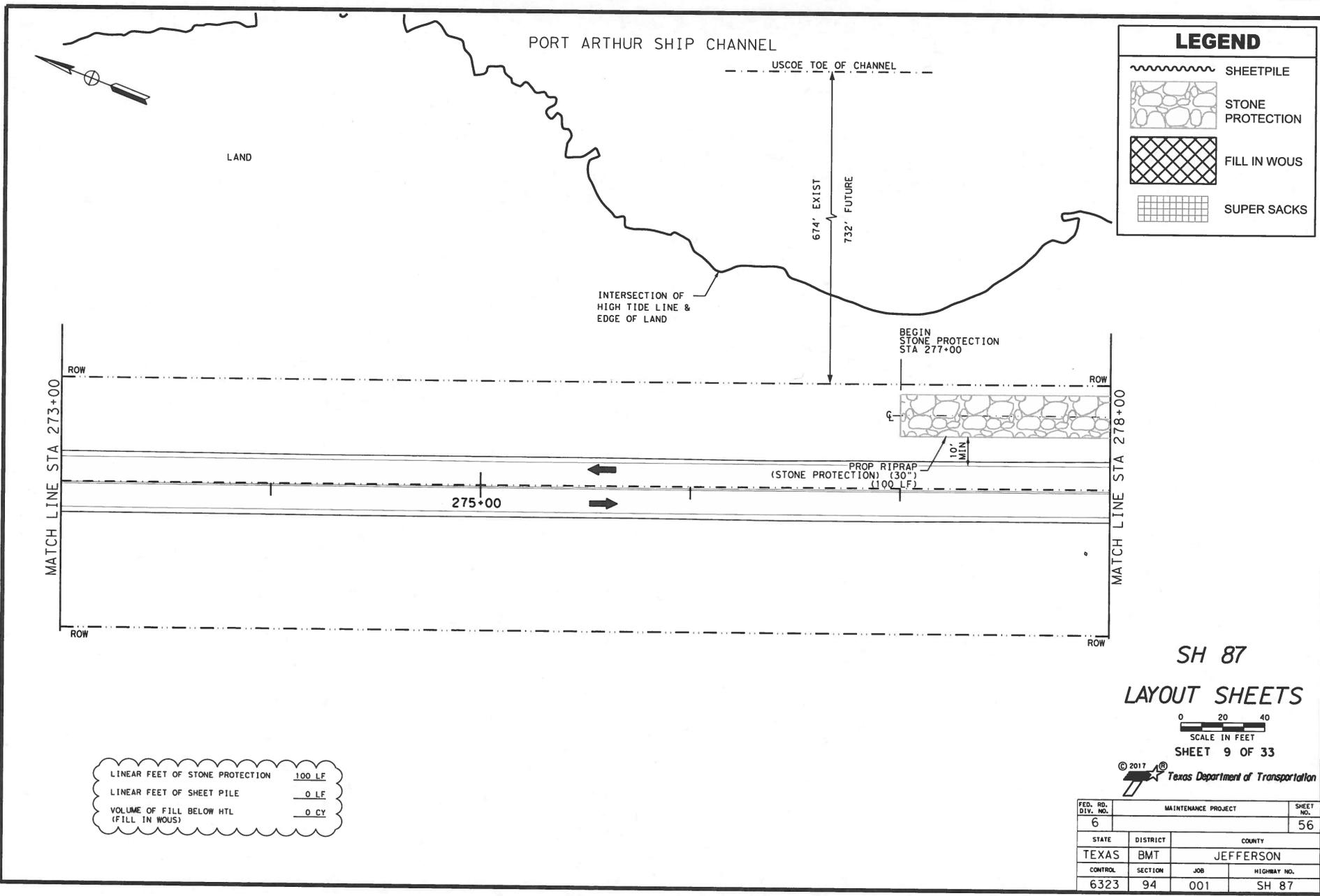
0 20 40
SCALE IN FEET

SHEET 8 OF 33



FED. RD. DIV. NO.	MAINTENANCE PROJECT	SHEET NO.	
6		55	
STATE	DISTRICT	COUNTY	
TEXAS	BMT	JEFFERSON	
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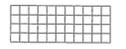


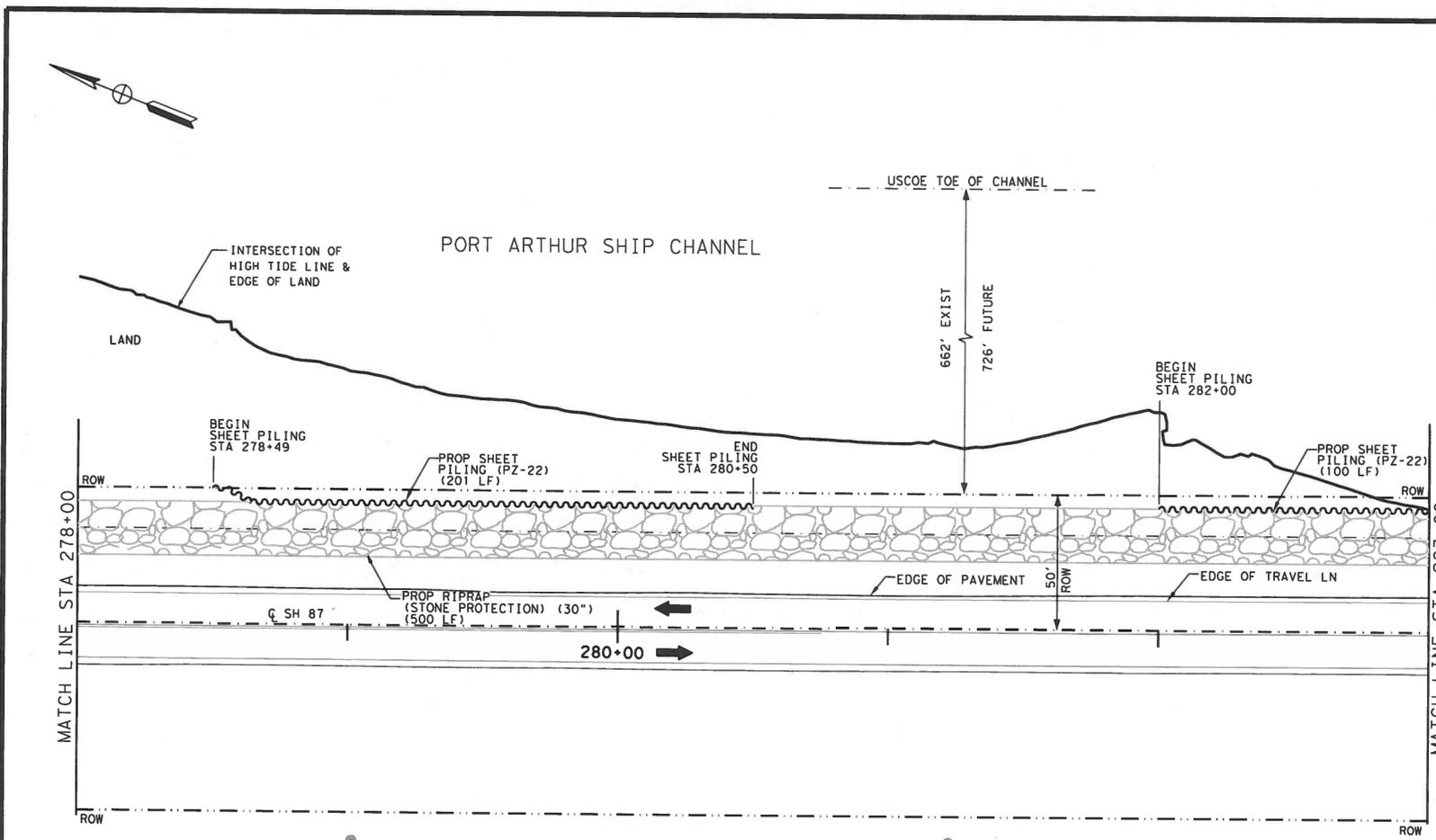
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LINEAR FEET OF STONE PROTECTION	100 LF
LINEAR FEET OF SHEET PILE	0 LF
VOLUME OF FILL BELOW HTL (FILL IN WOUS)	0 CY

FED. RD. DIV. NO.	MAINTENANCE PROJECT		SHEET NO.
6			56
STATE	DISTRICT	COUNTY	
TEXAS	BMT	JEFFERSON	
CONTROL	SECTION	JOB	HIGHWAY NO.
6323	94	001	SH 87

LEGEND

-  SHEETPILE
-  STONE PROTECTION
-  FILL IN WOUS
-  SUPER SACKS



LINEAR FEET OF STONE PROTECTION	500 LF
LINEAR FEET OF SHEET PILE	301 LF
VOLUME OF FILL BELOW HTL (FILL IN WOUS)	0 CY

SH 87
LAYOUT SHEETS

0 20 40
SCALE IN FEET

SHEET 10 OF 33



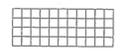
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6		57	
STATE	DISTRICT	COUNTY	
TEXAS	BMT	JEFFERSON	
CONTROL	SECTION	JOB	HIGHWAY NO.
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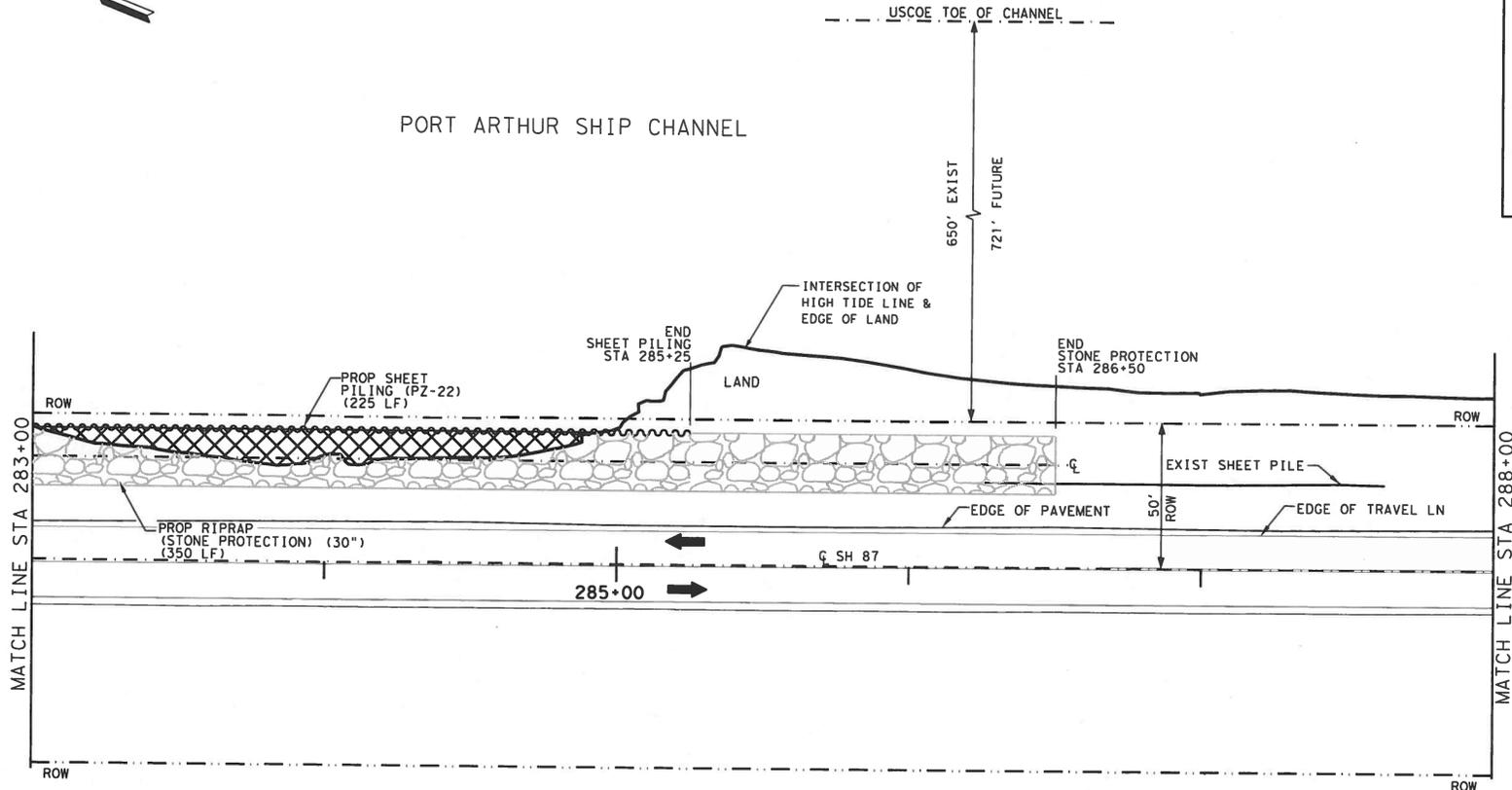
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PORT ARTHUR SHIP CHANNEL

LEGEND

-  SHEETPILE
-  STONE PROTECTION
-  FILL IN WOUS
-  SUPER SACKS



LINEAR FEET OF STONE PROTECTION	350 LF
LINEAR FEET OF SHEET PILE	225 LF
VOLUME OF FILL BELOW HTL (FILL IN WOUS)	69.31 CY

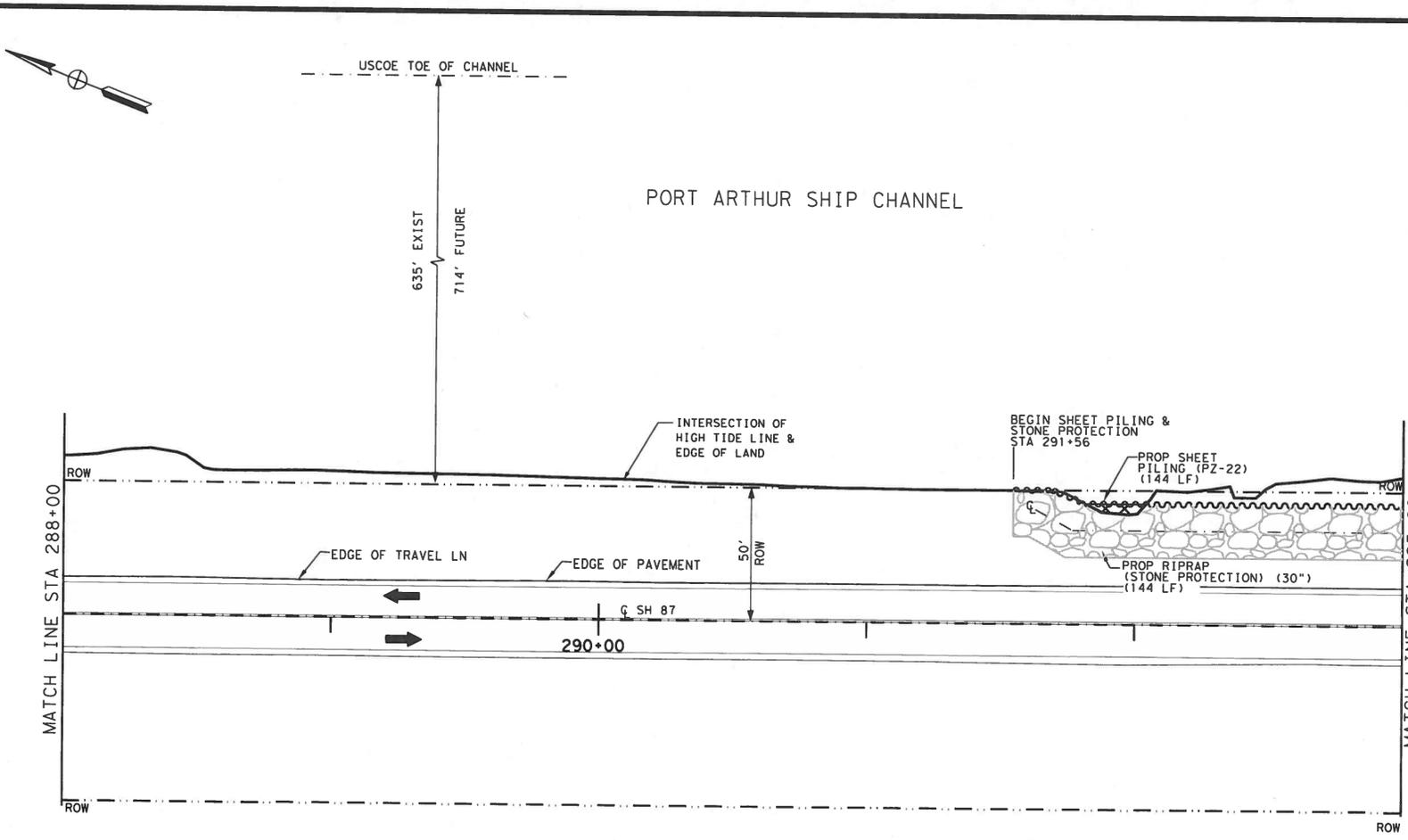
SH 87
LAYOUT SHEETS



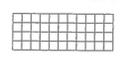
SHEET 11 OF 33
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FED. RD. DIV. NO.	MAINTENANCE PROJECT			SHEET NO.
6				58
STATE	DISTRICT	COUNTY		
TEXAS	BMT	JEFFERSON		
CONTROL	SECTION	JOB	HIGHWAY NO.	
6323	94	001	SH 87	



LEGEND

-  SHEETPILE
-  STONE PROTECTION
-  FILL IN WOUS
-  SUPER SACKS

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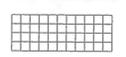
LINEAR FEET OF STONE PROTECTION 144 LF
 LINEAR FEET OF SHEET PILE 144 LF
 VOLUME OF FILL BELOW HTL (FILL IN WOUS) 2.82 CY

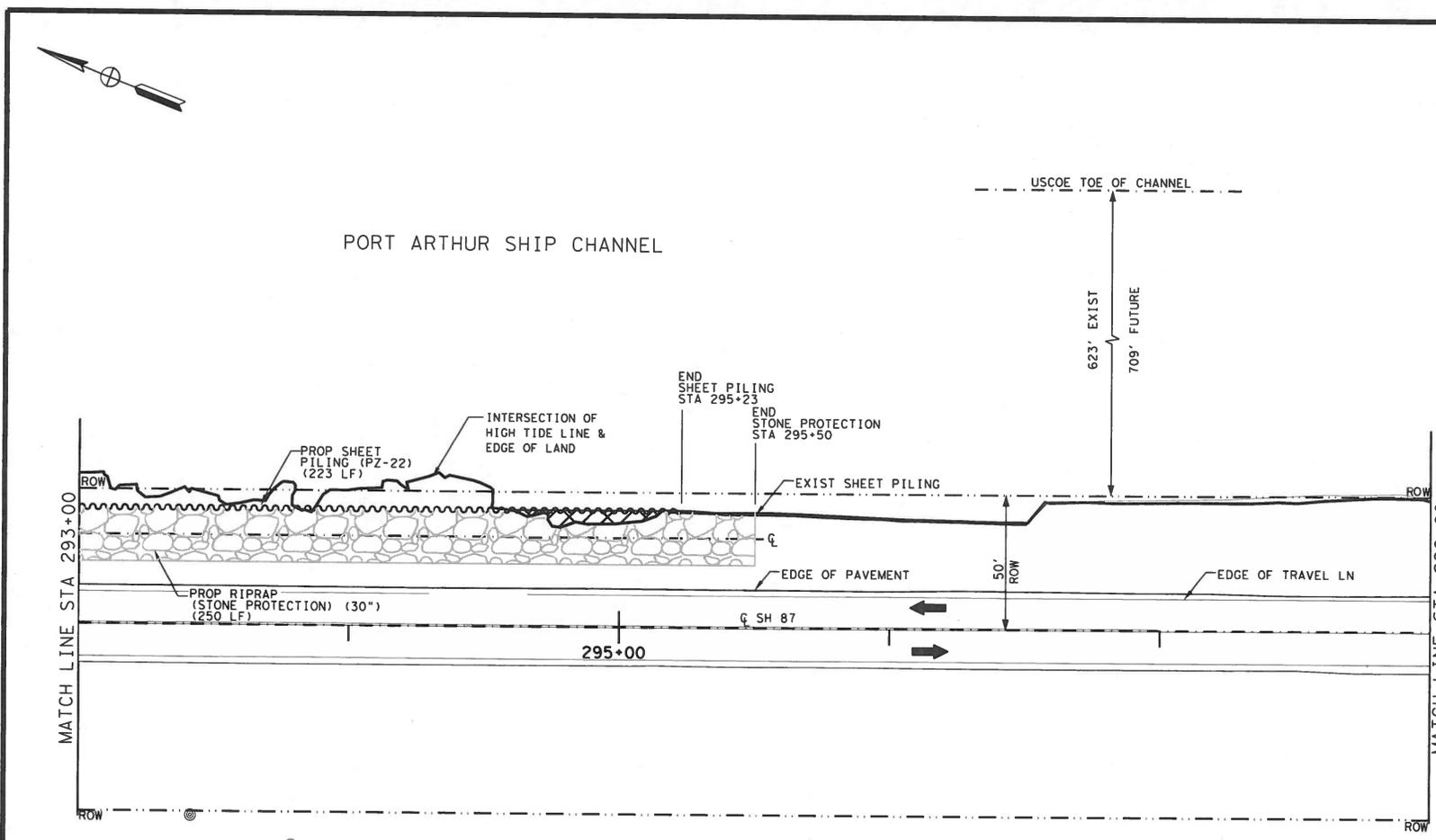
SH 87
LAYOUT SHEETS
 0 20 40
 SCALE IN FEET
 SHEET 12 OF 33



FED. RD. DIV. NO.	MAINTENANCE PROJECT	SHEET NO.
6		59
STATE	DISTRICT	COUNTY
TEXAS	BMT	JEFFERSON
CONTROL	SECTION	JOB
6323	94	001
		HIGHWAY NO.
		SH 87

LEGEND

-  SHEETPILE
-  STONE PROTECTION
-  FILL IN WOUS
-  SUPER SACKS



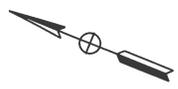
LINEAR FEET OF STONE PROTECTION	250 LF
LINEAR FEET OF SHEET PILE	223 LF
VOLUME OF FILL BELOW HTL (FILL IN WOUS)	9.10 CY

SH 87
LAYOUT SHEETS
 0 20 40
 SCALE IN FEET
 SHEET 13 OF 33



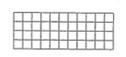
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6			60
STATE	DISTRICT	COUNTY	
TEXAS	BMT	JEFFERSON	
CONTROL	SECTION	JOB	HIGHWAY NO.
6323	94	001	SH 87

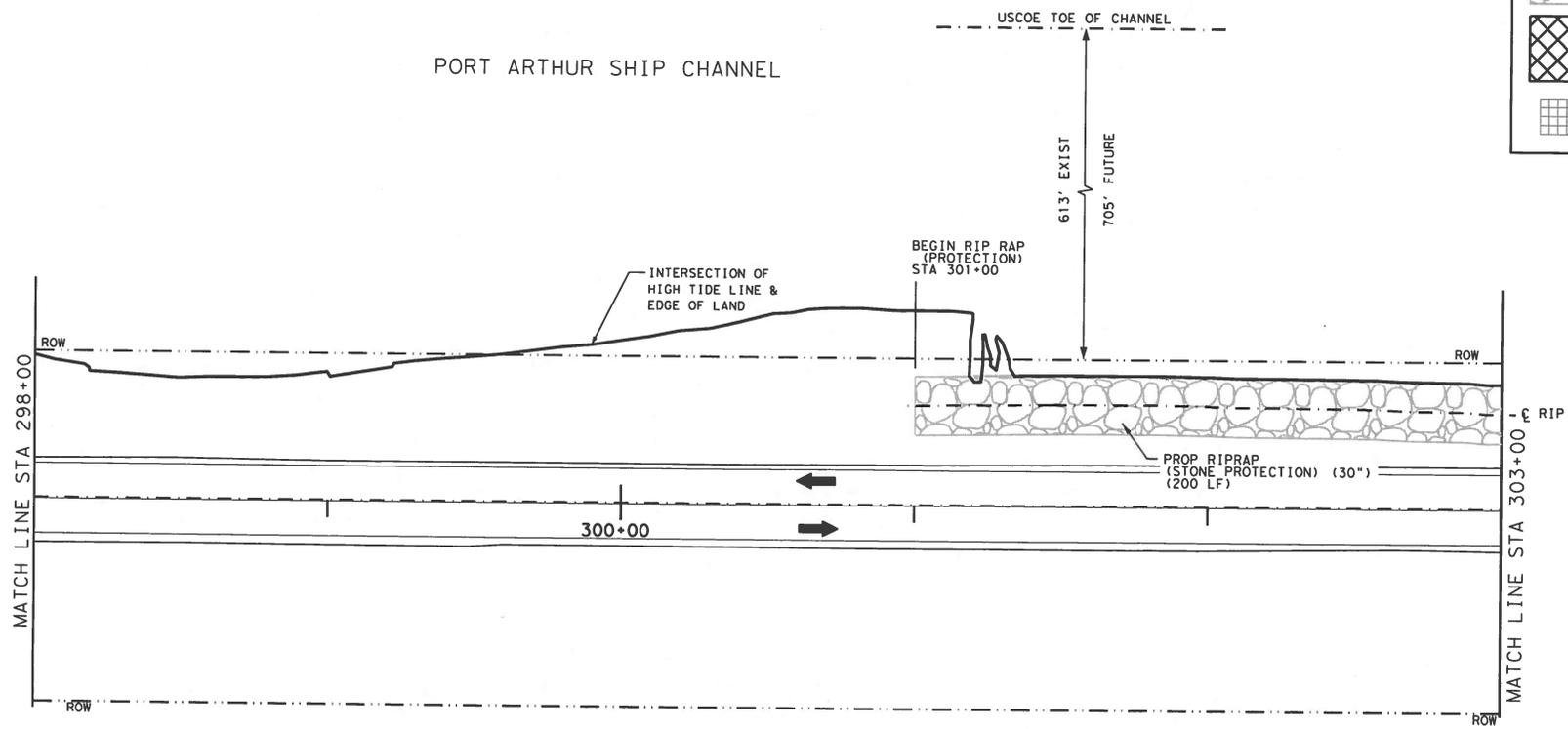
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 DATE: 10/16/2017 4:46:25 PM



PORT ARTHUR SHIP CHANNEL

LEGEND

-  SHEETPILE
-  STONE PROTECTION
-  FILL IN WOUS
-  SUPER SACKS



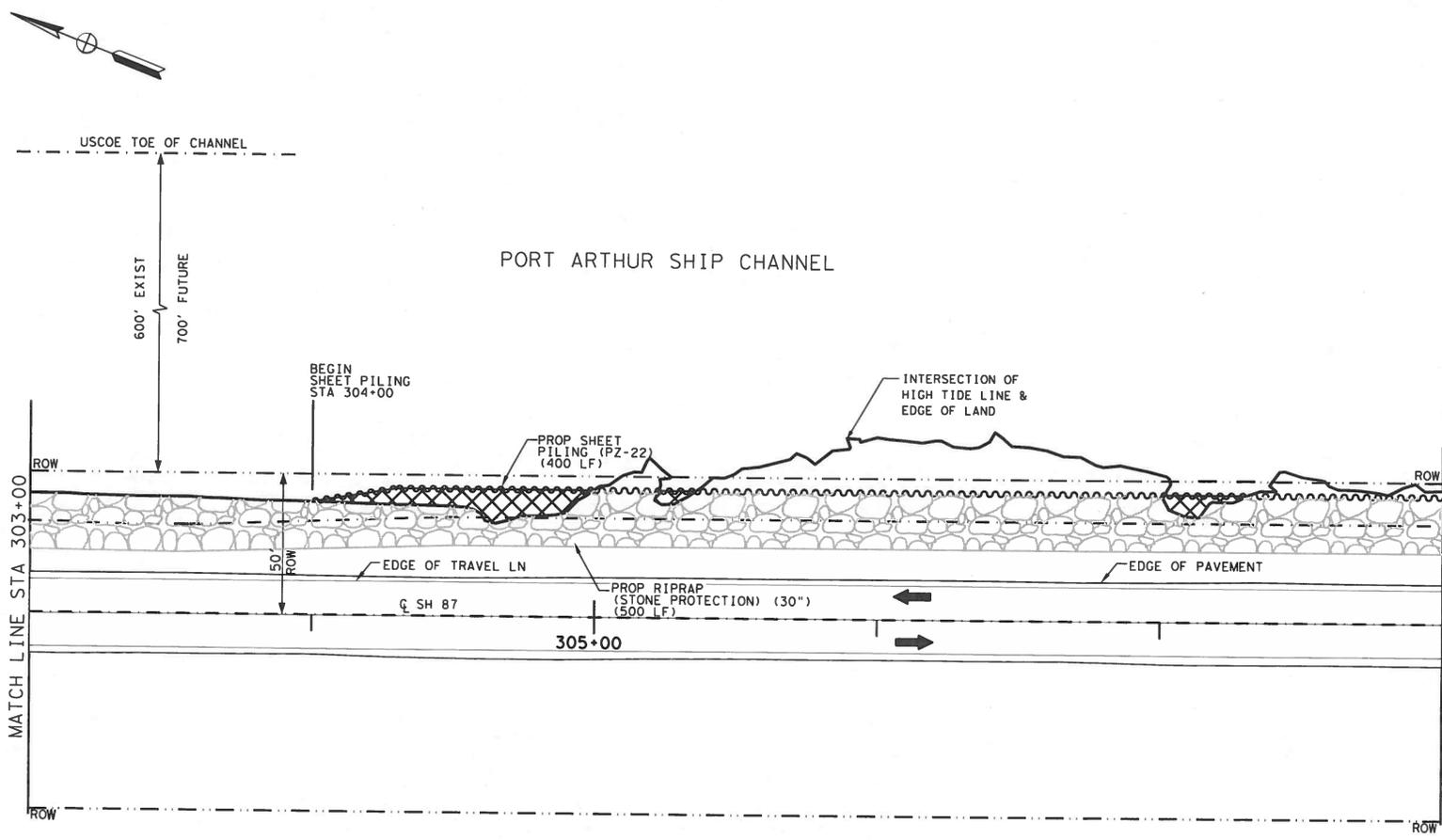
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 DATE: 10/16/2017 4:46:27 PM

LINEAR FEET OF BEDDING & RIPRAP	200 LF
LINEAR FEET OF SHEET PILE	0 LF
VOLUME OF FILL BELOW HTL (FILL IN WOUS)	0 CY

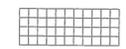
SH 87
 LAYOUT SHEETS
 0 20 40
 SCALE IN FEET
 SHEET 14 OF 33



FED. RD. DIV. NO.	MAINTENANCE PROJECT			SHEET NO.
6				61
STATE	DISTRICT	COUNTY		
TEXAS	BMT	JEFFERSON		
CONTROL	SECTION	JOB	HIGHWAY NO.	
6323	94	001	SH 87	



LEGEND

-  SHEETPILE
-  STONE PROTECTION
-  FILL IN WOUS
-  SUPER SACKS

LINEAR FEET OF STONE PROTECTION 500 LF
 LINEAR FEET OF SHEET PILE 400 LF
 VOLUME OF FILL BELOW HTL (FILL IN WOUS) 25.41 CY

**SH 87
LAYOUT SHEETS**



SHEET 15 OF 33



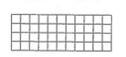
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 DATE: 10/16/2017 4:46:30 PM

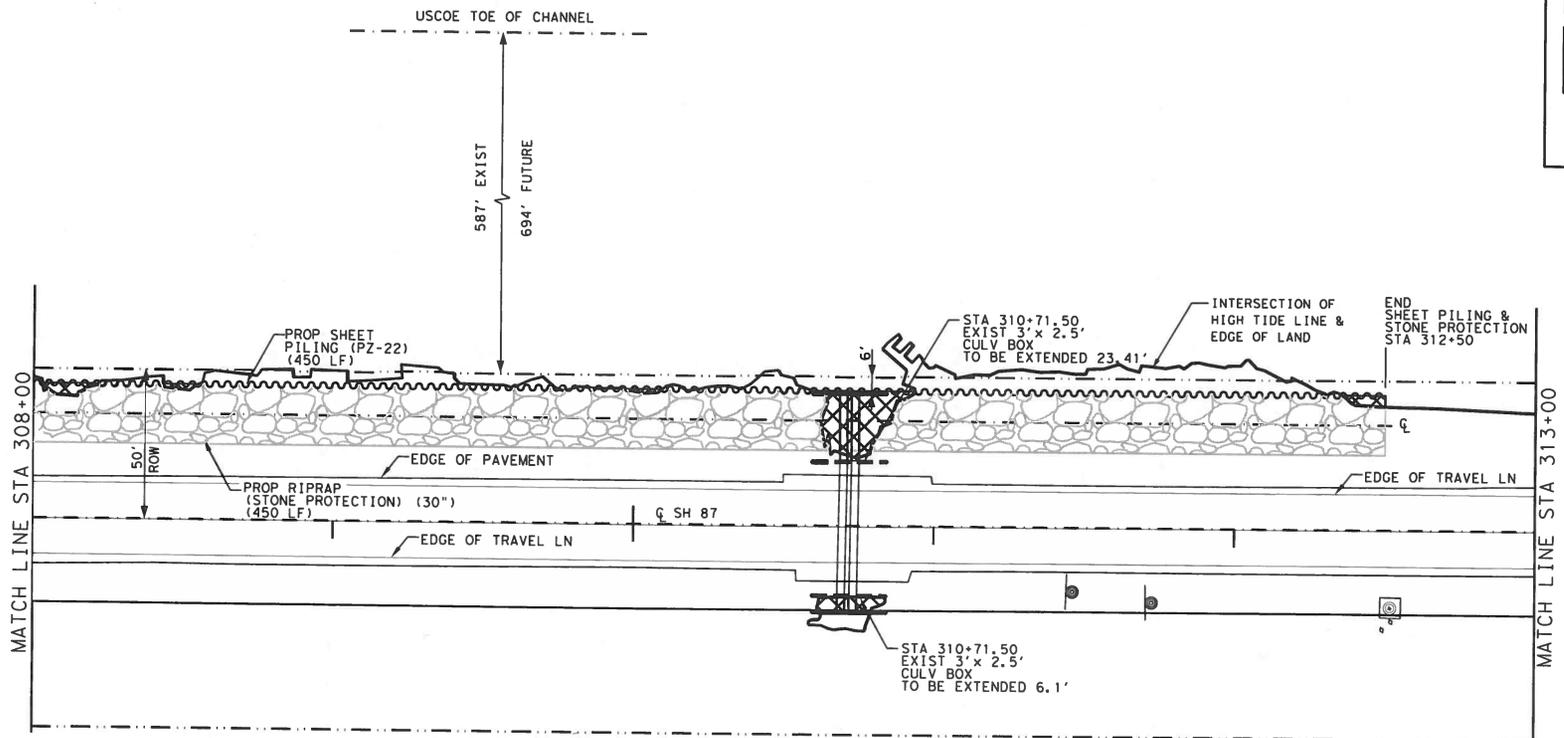
FED. RD. DIV. NO.	MAINTENANCE PROJECT		SHEET NO.
6			62
STATE	DISTRICT	COUNTY	
TEXAS	BMT	JEFFERSON	
CONTROL	SECTION	JOB	HIGHWAY NO.
6323	94	001	SH 87



PORT ARTHUR SHIP CHANNEL

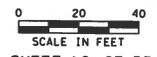
LEGEND

-  SHEETPILE
-  STONE PROTECTION
-  FILL IN WOUS
-  SUPER SACKS



LINEAR FEET OF STONE PROTECTION **450 LF**
 LINEAR FEET OF SHEET PILE **450 LF**
 VOLUME OF FILL BELOW HTL (FILL IN WOUS) **22.82 CY**

**SH 87
LAYOUT SHEETS**



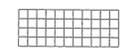
© 2017 Texas Department of Transportation

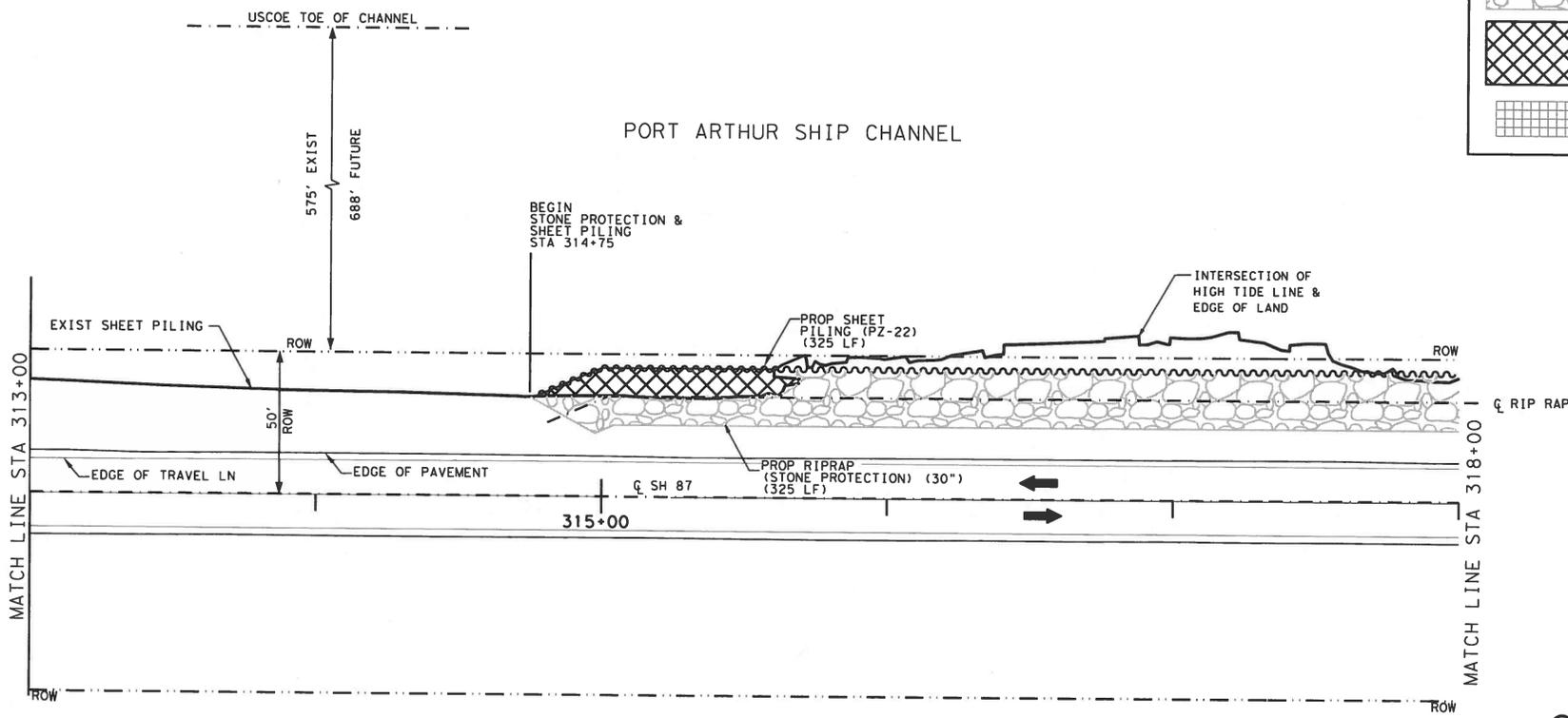
FED. RD. DIV. NO.	MAINTENANCE PROJECT			SHEET NO.
6				63
STATE	DISTRICT	COUNTY		
TEXAS	BMT	JEFFERSON		
CONTROL	SECTION	JOB	HIGHWAY NO.	
6323	94	001	SH 87	

FILE: Y:\LOCAL\BMT_A0-MO\Emergency\Contract\DON\CORPS PLANS\SH87 EROSION REPAIR SHEET 16 (STA 308+00 to 313+00).dgn
 DATE: 10/16/2017 2:46:32 PM



LEGEND

-  SHEETPILE
-  STONE PROTECTION
-  FILL IN WOUS
-  SUPER SACKS



LINEAR FEET OF STONE PROTECTION 325 LF
 LINEAR FEET OF SHEET PILE 325 LF
 VOLUME OF FILL BELOW HTL (FILL IN WOUS) 39.44 CY

**SH 87
LAYOUT SHEETS**



SHEET 17 OF 33



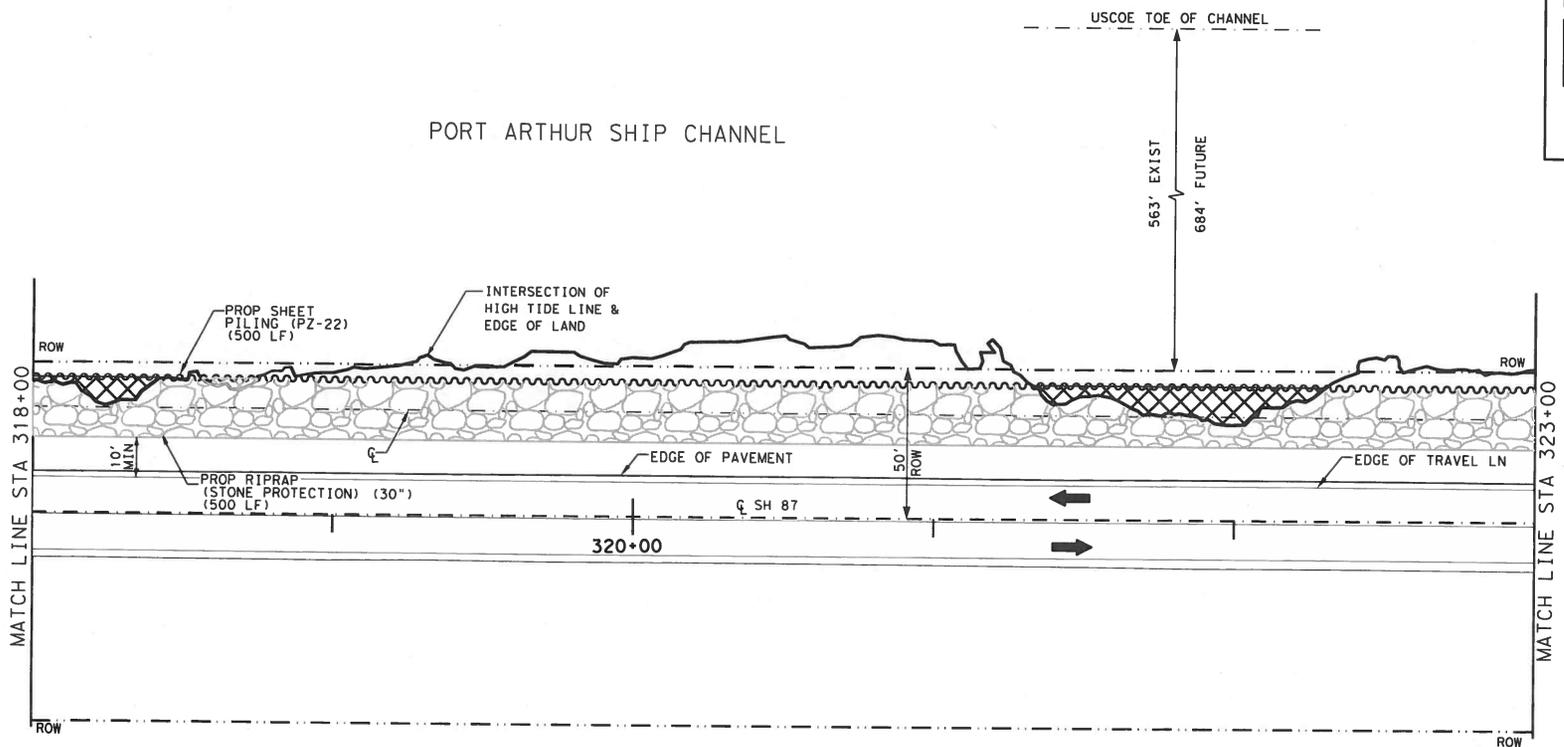
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 DATE: 10/16/2017 2:46:34 PM

FED. RD. DIV. NO.	MAINTENANCE PROJECT		SHEET NO.
6			64
STATE	DISTRICT	COUNTY	
TEXAS	BMT	JEFFERSON	
CONTROL	SECTION	JOB	HIGHWAY NO.
6323	94	001	SH 87



LEGEND

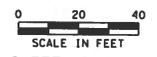
- SHEETPILE
- STONE PROTECTION
- FILL IN WOVS
- SUPER SACKS



FILES: Y:\LOCAL\BMT_40-40\Emergency\Contract\CON\CORPS_PLANS\SH87 EROSION REPAIR SHEET 18 (STA 318+00 to 323+00).dgn
 DATE: 10/16/2017 4:46:37 PM

LINEAR FEET OF STONE PROTECTION	500 LF
LINEAR FEET OF SHEET PILE	500 LF
VOLUME OF FILL BELOW HTL (FILL IN WOVS)	43.58 CY

SH 87
LAYOUT SHEETS



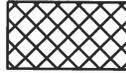
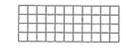
SHEET 18 OF 33

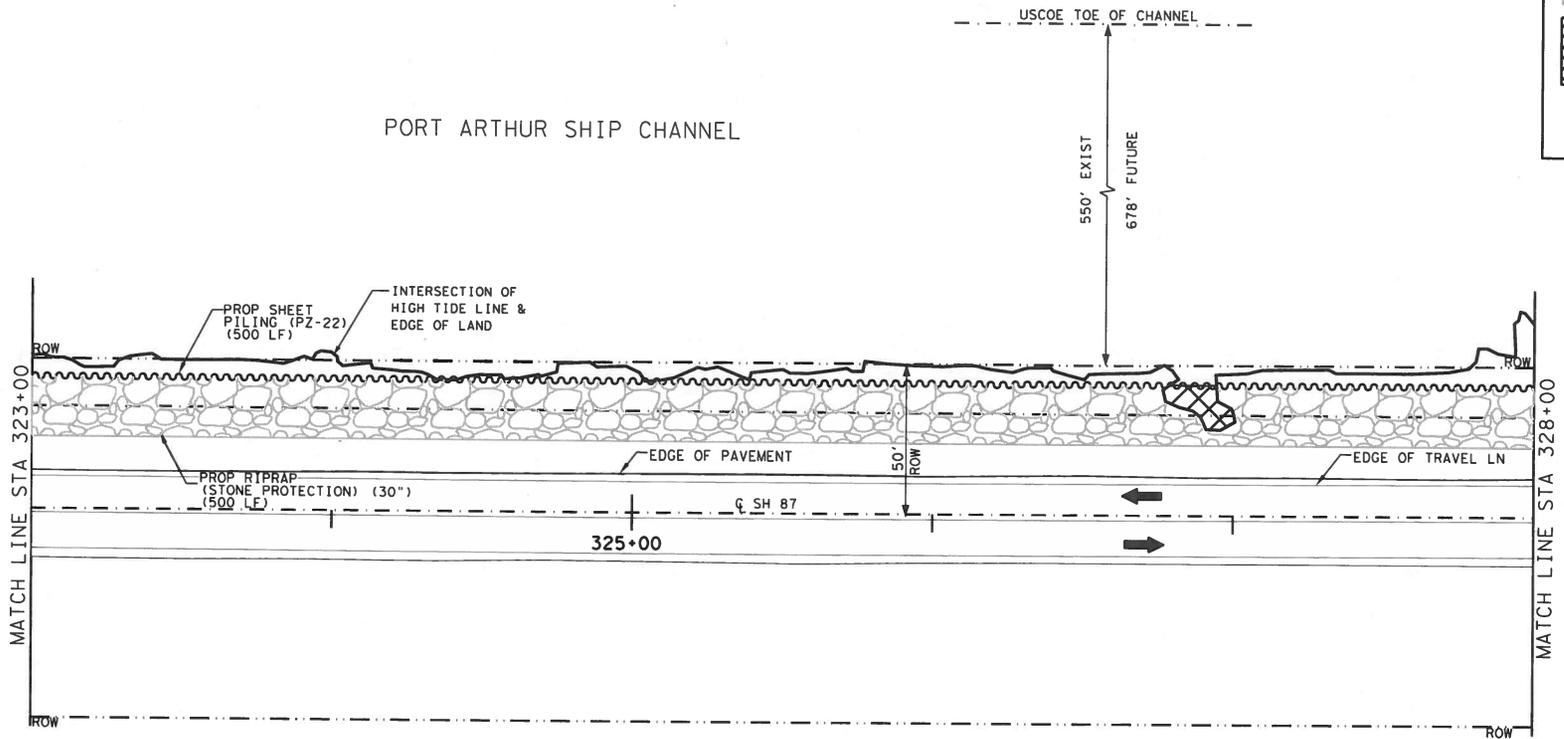
FED. RD. DIV. NO.	MAINTENANCE PROJECT	SHEET NO.
6		65
STATE	DISTRICT	COUNTY
TEXAS	BMT	JEFFERSON
CONTROL	SECTION	JOB
6323	94	001
		HIGHWAY NO.
		SH 87



PORT ARTHUR SHIP CHANNEL

LEGEND

-  SHEETPILE
-  STONE PROTECTION
-  FILL IN WOUS
-  SUPER SACKS



FILE: Y:\LOCAL\BMT_A0-MO\Emergency\Contract\NDON\CORPS_PLANS\SH87 EROSION REPAIR SHEET 19 (STA 323+00 to 328+00).dgn
 DATE: 10/16/2017 4:46:39 PM

LINEAR FEET OF STONE PROTECTION	500 LF
LINEAR FEET OF SHEET PILE	500 LF
VOLUME OF FILL BELOW HTL (FILL IN WOUS)	9.21 CY

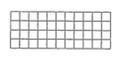
SH 87
 LAYOUT SHEETS
 SCALE IN FEET
 SHEET 19 OF 33

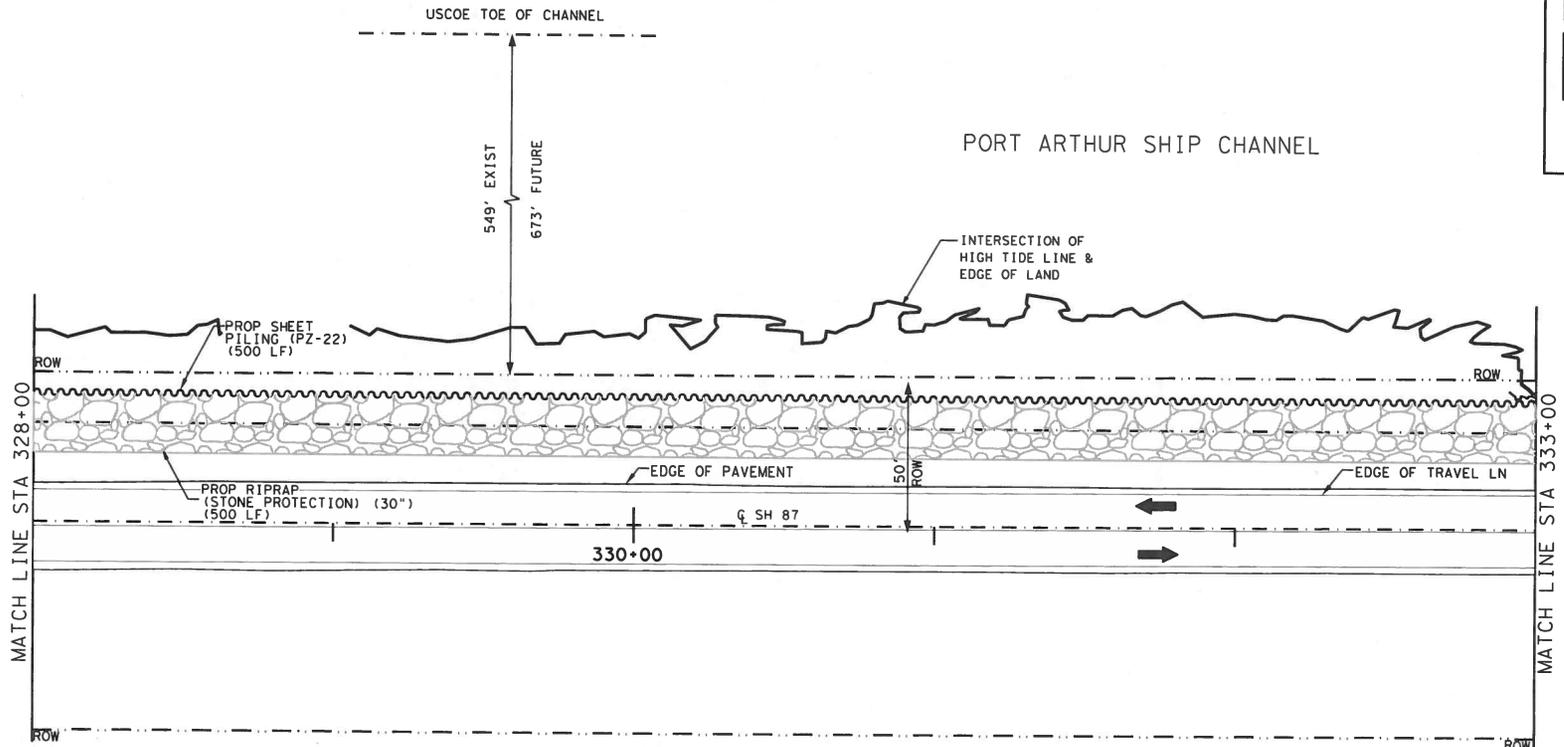


FED. RD. DIV. NO.	MAINTENANCE PROJECT			SHEET NO.
6				66
STATE	DISTRICT	COUNTY		
TEXAS	BMT	JEFFERSON		
CONTROL	SECTION	JOB	HIGHWAY NO.	
6323	94	001	SH 87	



LEGEND

-  SHEETPILE
-  STONE PROTECTION
-  FILL IN WOUS
-  SUPER SACKS



LINEAR FEET OF STONE PROTECTION	500 LF
LINEAR FEET OF SHEET PILE	500 LF
VOLUME OF FILL BELOW HTL (FILL IN WOUS)	0 CY

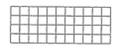
SH 87
LAYOUT SHEETS
 SCALE IN FEET
 SHEET 20 OF 33

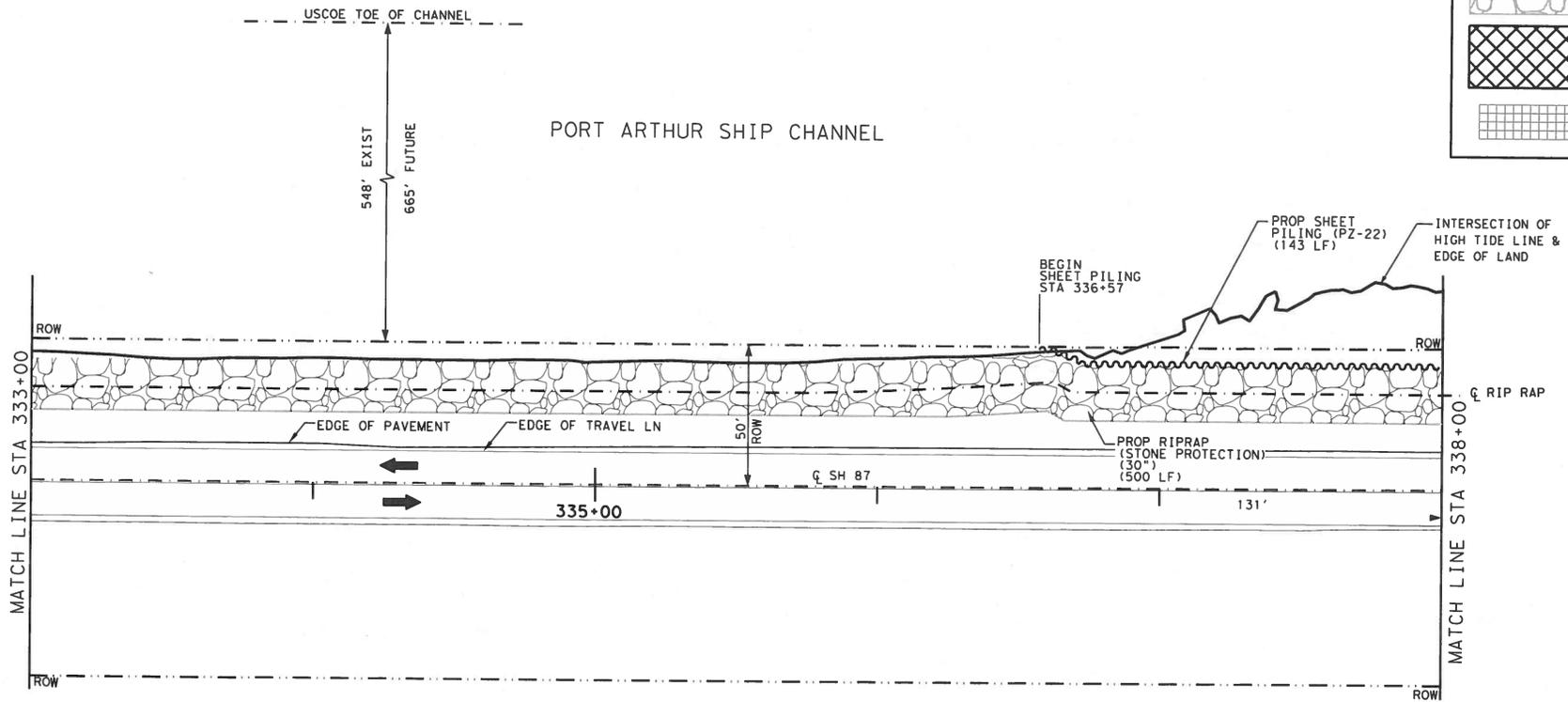


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 DATE: 10/16/2017 2:46:41 PM

FED. RD. DIV. NO.	MAINTENANCE PROJECT			SHEET NO.
6				67
STATE	DISTRICT	COUNTY		
TEXAS	BMT	JEFFERSON		
CONTROL	SECTION	JOB	HIGHWAY NO.	
6323	94	001	SH 87	

LEGEND

-  SHEETPILE
-  STONE PROTECTION
-  FILL IN WOUS
-  SUPER SACKS



LINEAR FEET OF STONE PROTECTION	500 LF
LINEAR FEET OF SHEET PILE	143 LF
VOLUME OF FILL BELOW HTL (FILL IN WOUS)	0 CY

SH 87
LAYOUT SHEETS

0 20 40
SCALE IN FEET

SHEET 21 OF 33



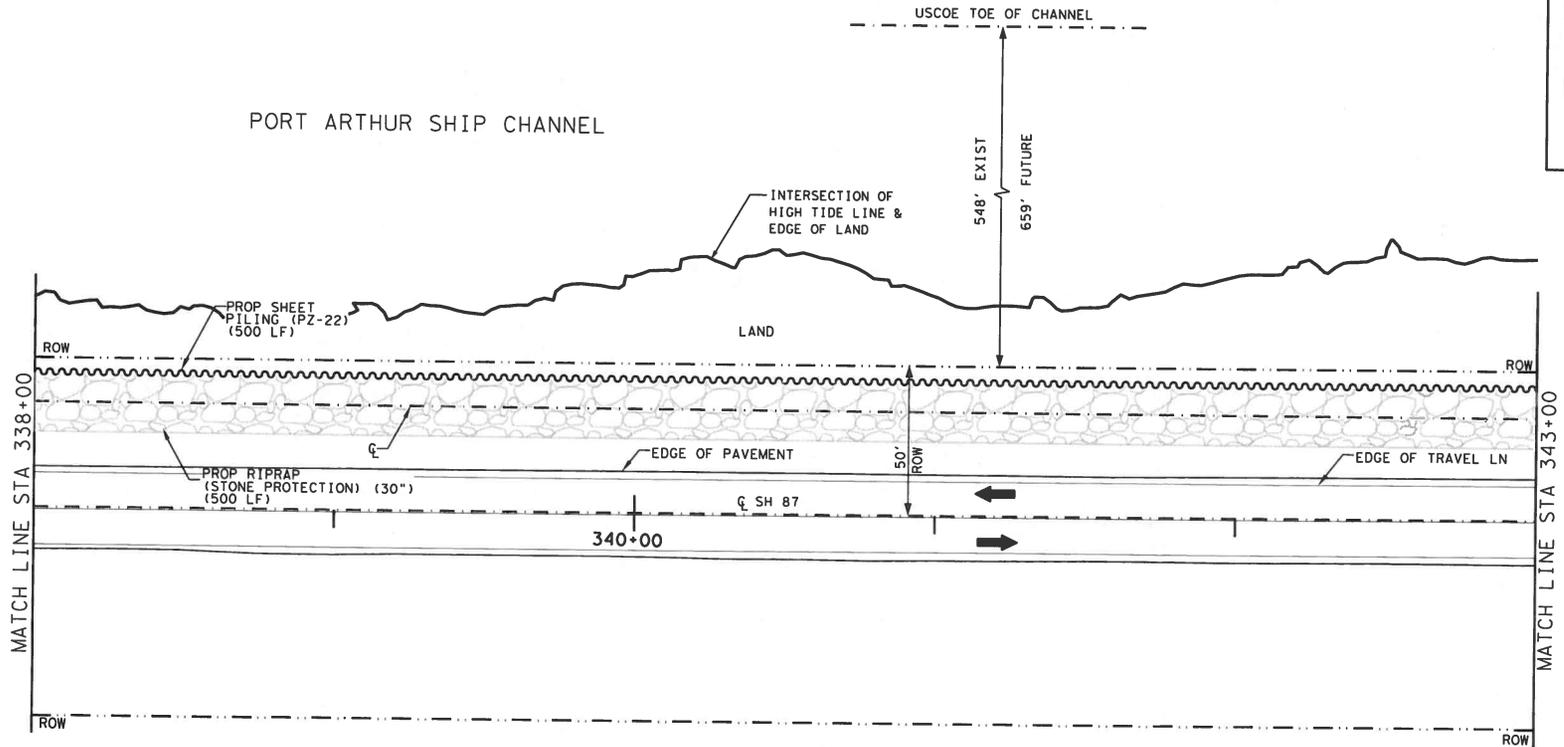
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FED. RD. DIV. NO.	MAINTENANCE PROJECT	SHEET NO.	
6		68	
STATE	DISTRICT	COUNTY	
TEXAS	BMT	JEFFERSON	
CONTROL	SECTION	JOB	HIGHWAY NO.
6323	94	001	SH 87



LEGEND

- SHEETPILE
- STONE PROTECTION
- FILL IN WOVS
- SUPER SACKS



FILE: Y:\LOCAL\BMT_10-NOV\Emergency\Contract\DDN\CORPS PLANS\SH87 EROSION REPAIR SHEET 22 (STA 338+00 to 343+00).dgn
 DATE: 10/16/2017 2:46:46 PM

LINEAR FEET OF STONE PROTECTION	500 LF
LINEAR FEET OF SHEET PILE	500 LF
VOLUME OF FILL BELOW HTL (FILL IN WOVS)	0 CY

SH 87 LAYOUT SHEETS

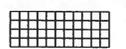


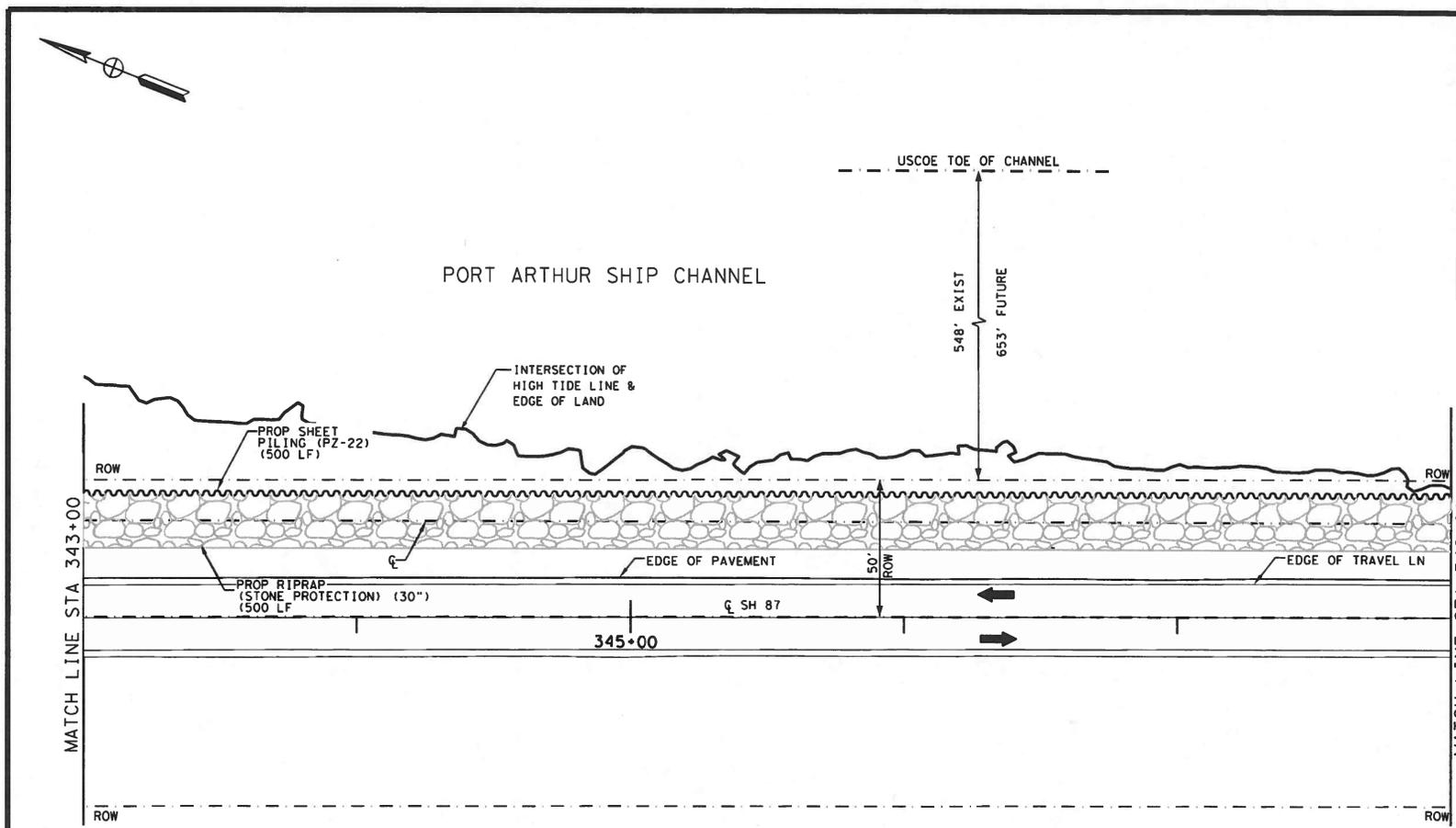
SHEET 22 OF 33



FED. NO.	DIV. NO.	MAINTENANCE PROJECT	SHEET NO.
6			69
STATE	DISTRICT	COUNTY	
TEXAS	BMT	JEFFERSON	
CONTROL	SECTION	JOB	HIGHWAY NO.
6323	94	001	SH 87

LEGEND

-  SHEETPILE
-  STONE PROTECTION
-  FILL IN WOUS
-  SUPER SACKS



LINER FEET OF STONE PROTECTION	500 LF
LINER FEET OF SHEET PILE	500 LF
VOLUME OF FILL BELOW HTL (FILL IN WOUS)	0 CY

SH 87
LAYOUT SHEETS

0 20 40
SCALE IN FEET

SHEET 23 OF 33



FED. NO. 6		MAINTENANCE PROJECT		SHEET NO. 70
STATE	DISTRICT	COUNTY		
TEXAS	BMT	JEFFERSON		
CONTROL	SECTION	JOB	HIGHWAY NO.	
6323	94	001	SH 87	

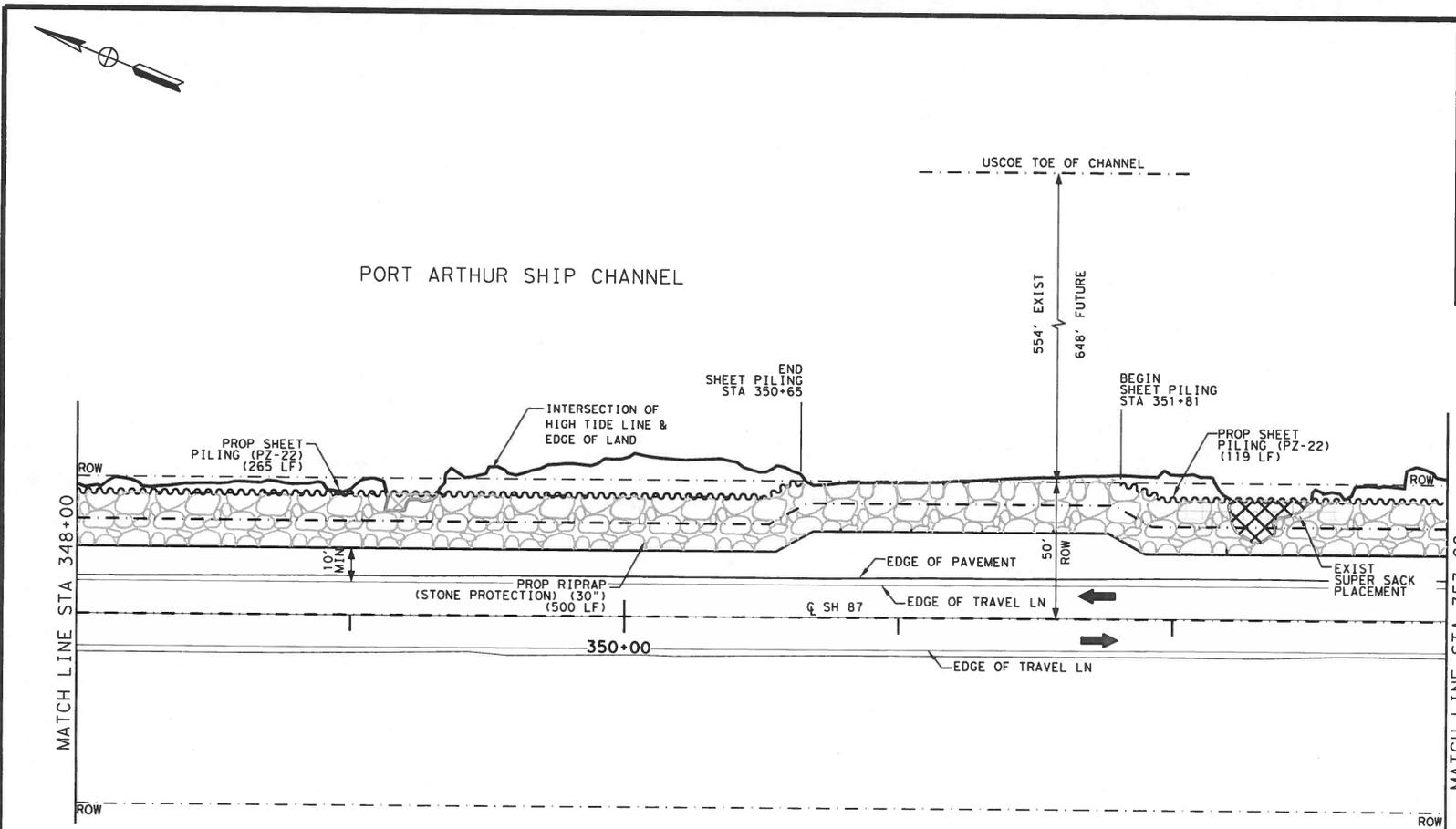
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 DATE: 10/17/2017 1:19:30 AM

LEGEND

-  SHEETPILE
-  STONE PROTECTION
-  FILL IN WOUS
-  SUPER SACKS

PORT ARTHUR SHIP CHANNEL

FILE: Y:\LOCAL\BMT AQ-HQ\Emergency\Contract\DRN\CORPS PLANS\SH87 EROSION REPAIR SHEET 24 (STA 348+00 to 353+00).dgn
DATE: 10/16/2017 2:46:51 PM



LINEAR FEET OF STONE PROTECTION	500 LF
LINEAR FEET OF SHEET PILE	384 LF
VOLUME OF FILL BELOW HTL (FILL IN WOUS)	15.27 CY

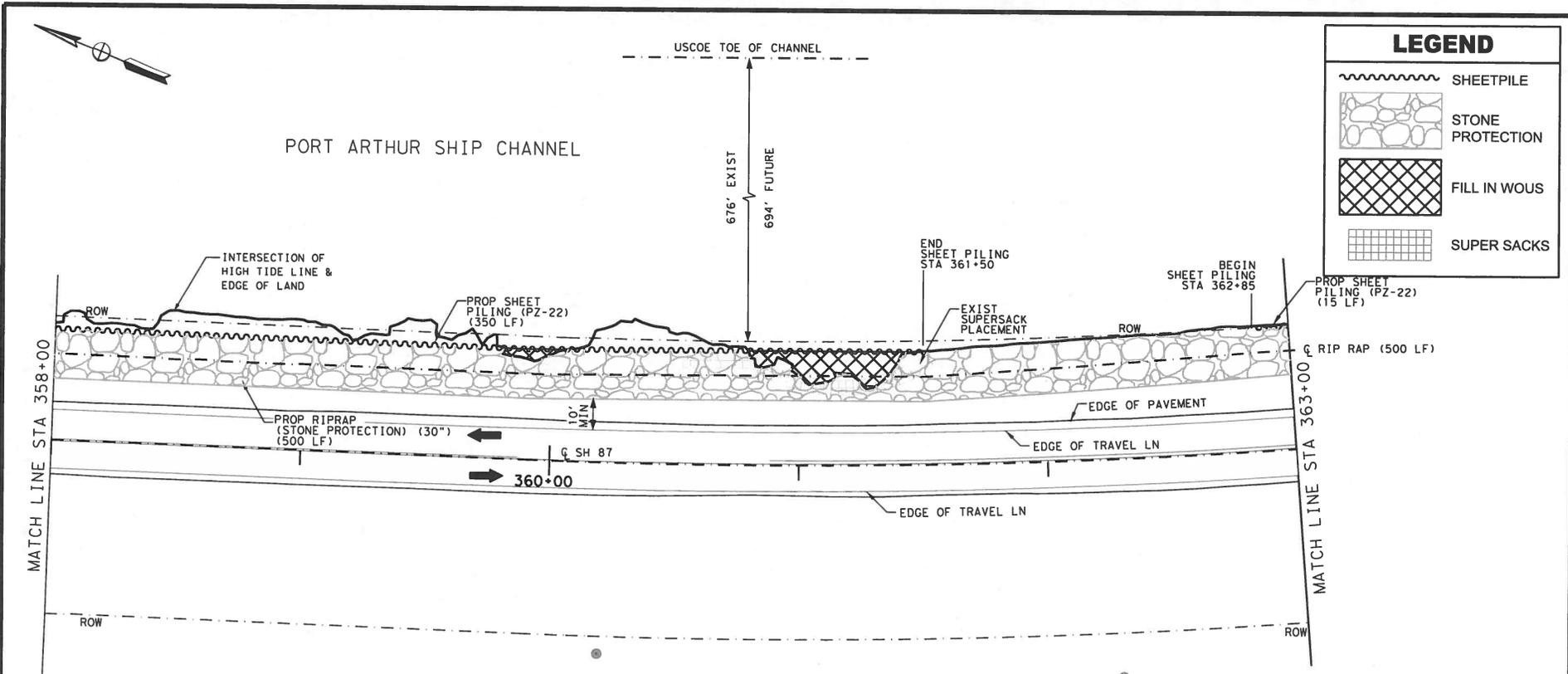
**SH 87
LAYOUT SHEETS**



SHEET 24 OF 33



FED. RD. DIV. NO.	MAINTENANCE PROJECT		SHEET NO.
6			71
STATE	DISTRICT	COUNTY	
TEXAS	BMT	JEFFERSON	
CONTROL	SECTION	JOB	HIGHWAY NO.
6323	94	001	SH 87



LEGEND

- SHEETPILE
- STONE PROTECTION
- FILL IN WOUS
- SUPER SACKS

FILE: Y:\LOCAL\BMT AQ-HQ\Emergency+Contract\DON\CORPS PLANS\SH87 EROSION REPAIR SHEET 26 (STA 358+00 to STA 363+00).dgn
 DATE: 10/16/2017 2:46:55 PM

LINEAR FEET OF STONE PROTECTION	500 LF
LINEAR FEET OF SHEET PILE	365 LF
VOLUME OF FILL BELOW HTL (FILL IN WOUS)	28.15 CY

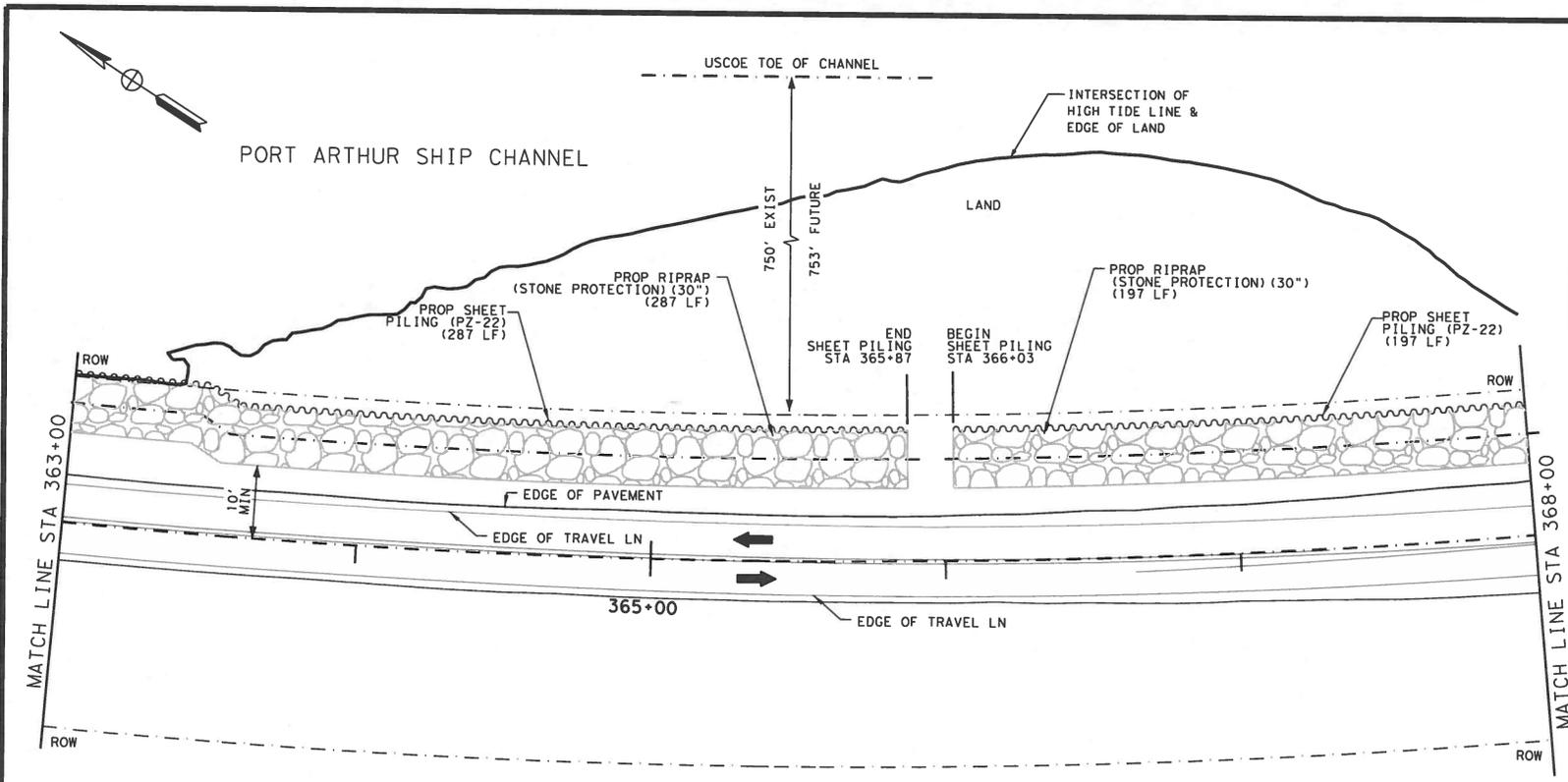
SH 87 LAYOUT SHEETS



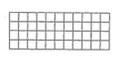
SHEET 26 OF 33



FED. RD. DIV. NO.	MAINTENANCE PROJECT			SHEET NO.
6				73
STATE	DISTRICT	COUNTY		
TEXAS	BMT	JEFFERSON		
CONTROL	SECTION	JOB	HIGHWAY NO.	
6323	94	001	SH 87	



LEGEND

-  SHEETPILE
-  STONE PROTECTION
-  FILL IN WOUS
-  SUPER SACKS

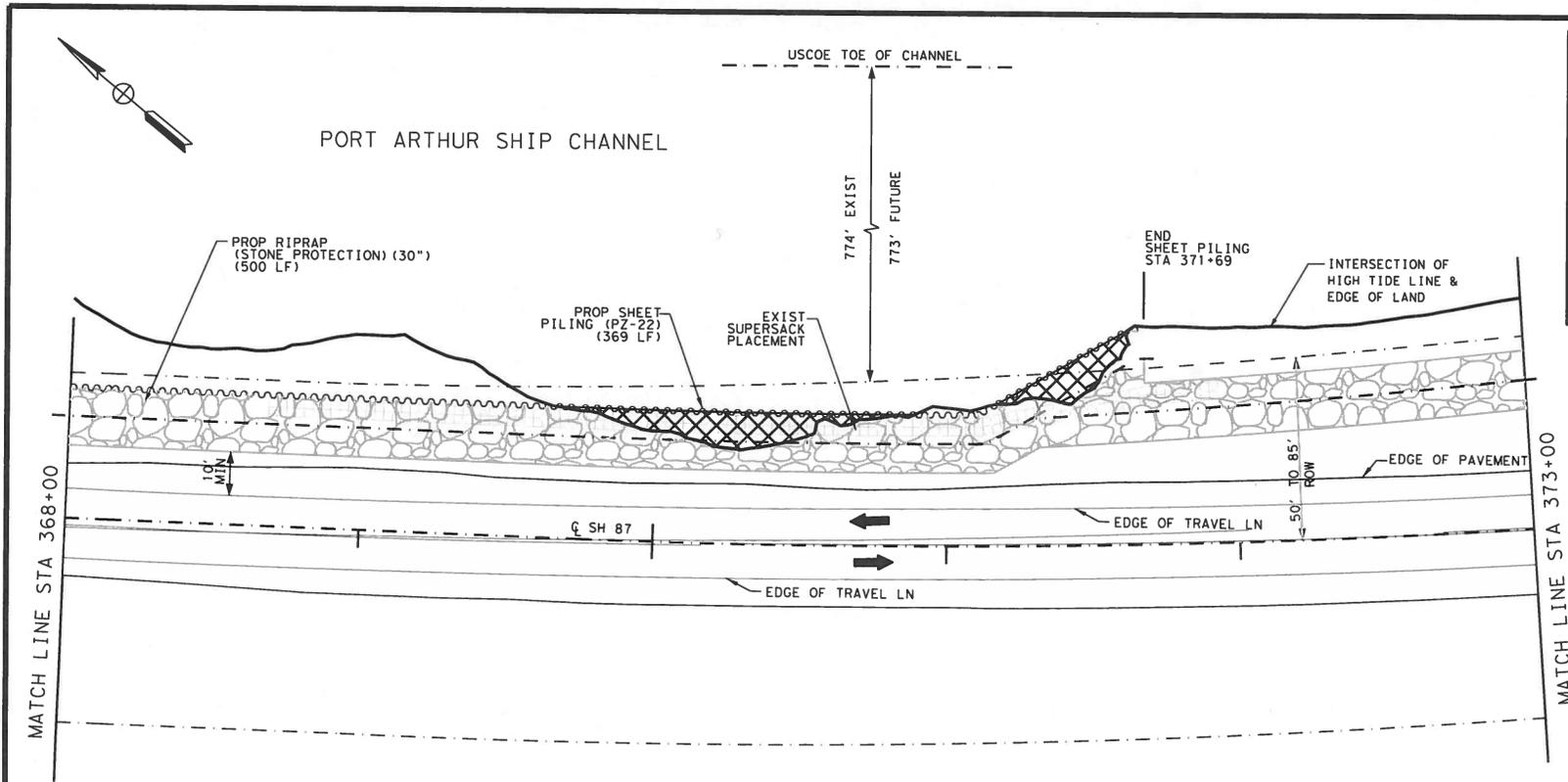
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 DATE: 10/16/2012 12:46:58 PM

LINEAR FEET OF STONE PROTECTION	484 LF
LINEAR FEET OF SHEET PILE	484 LF
VOLUME OF FILL BELOW HTL (FILL IN WOUS)	0 CY

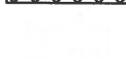
SH 87
LAYOUT SHEETS
 SCALE IN FEET
 SHEET 27 OF 33



FED. RD. DIV. NO.	MAINTENANCE PROJECT			SHEET NO.
6				74
STATE	DISTRICT	COUNTY		
TEXAS	BMT	JEFFERSON		
CONTROL	SECTION	JOB	HIGHWAY NO.	
6323	94	001	SH 87	



LEGEND

-  SHEETPILE
-  STONE PROTECTION
-  FILL IN WOUS
-  SUPER SACKS

FILE: Y:\LOCAL\BMT_40-MO\Emergency\Contract\CDN\CORPS_PLANS\SH87 EROSION REPAIR SHEET 28 (STA 368+00 to STA 373+00).dgn
 DATE: 10/16/2017 1:47:00 PM

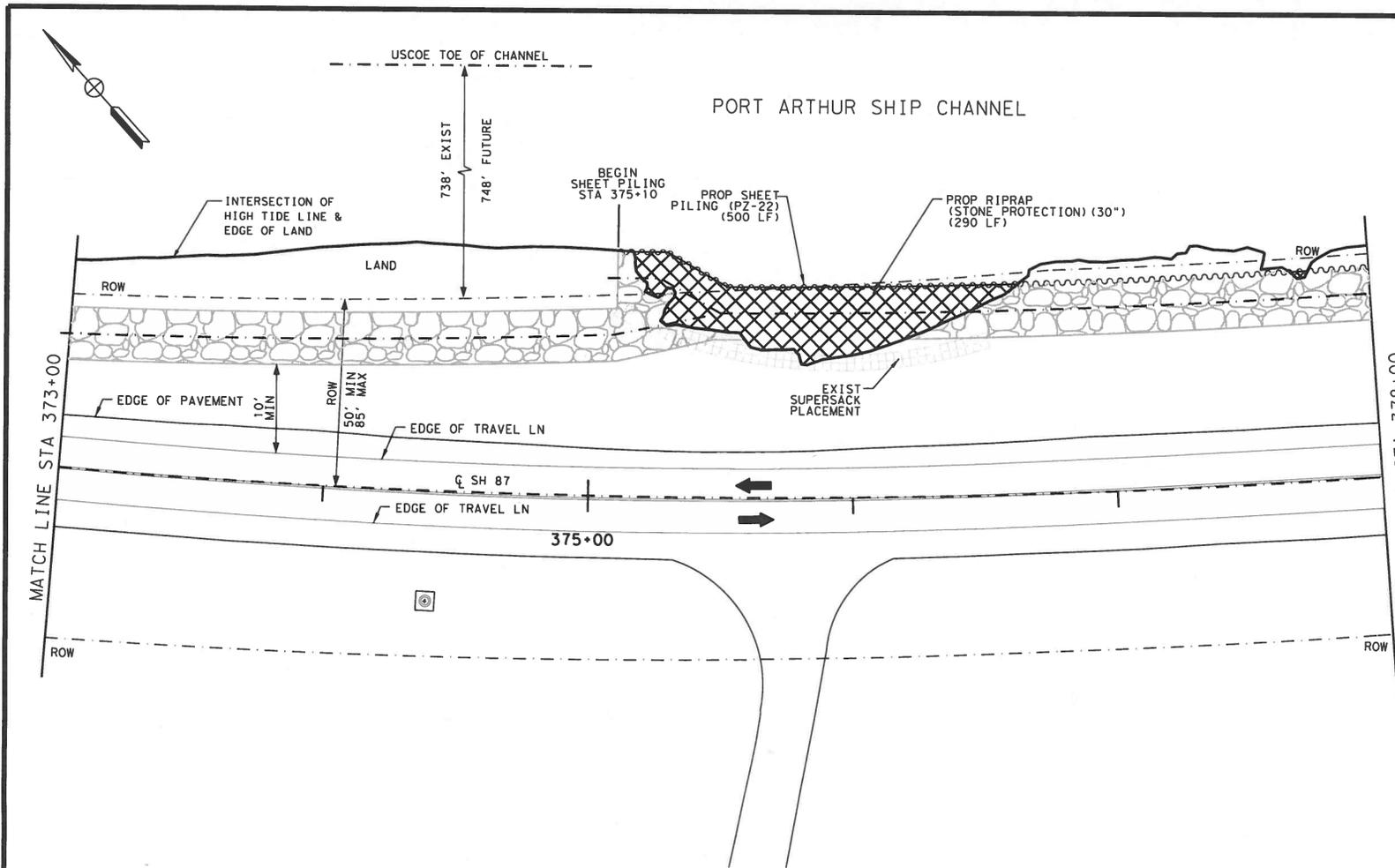
LINEAR FEET OF STONE PROTECTION	500 LF
LINEAR FEET OF SHEET PILE	369 LF
VOLUME OF FILL BELOW HTL (FILL IN WOUS)	47.44 CY

**SH 87
LAYOUT SHEETS**



SHEET 28 OF 33
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FED. RD. DIV. NO.	MAINTENANCE PROJECT			SHEET NO.
6				75
STATE	DISTRICT	COUNTY		
TEXAS	BMT	JEFFERSON		
CONTROL	SECTION	JOB	HIGHWAY NO.	
6323	94	001	SH 87	



LEGEND

-  SHEETPILE
-  STONE PROTECTION
-  FILL IN WOUS
-  SUPER SACKS

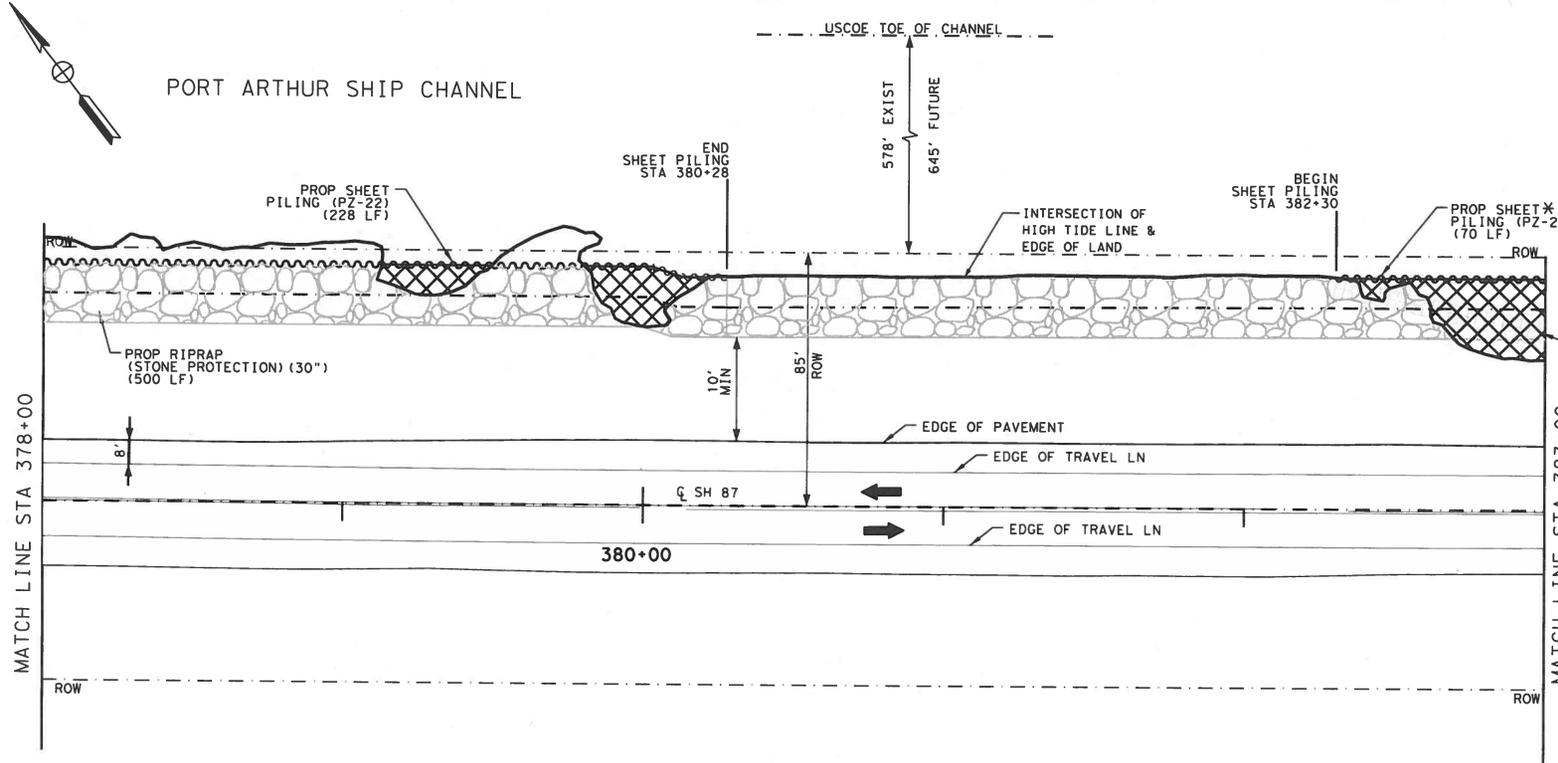
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 DATE: 10/16/2012 4:41:04 PM

LINEAR FEET OF STONE PROTECTION 500 LF
 LINEAR FEET OF SHEET PILE 290 LF
 VOLUME OF FILL BELOW HTL (FILL IN WOUS) 122.72 CY

SH 87
LAYOUT SHEETS
 0 20 40
 SCALE IN FEET
 SHEET 29 OF 33



FED. RD. DIV. NO.	MAINTENANCE PROJECT		SHEET NO.
6			76
STATE	DISTRICT	COUNTY	
TEXAS	BMT	JEFFERSON	
CONTROL	SECTION	JOB	HIGHWAY NO.
6323	94	001	SH 87



LEGEND

- SHEETPILE
- STONE PROTECTION
- FILL IN WOVS
- SUPER SACKS

FILE: Y:\LOCAL\BMT AQ-MQ\Emergency\Contract\DRN\CORPS PLANS\SH87 EROSION REPAIR SHEET 30 (STA 378+00 to STA 383+00).dgn
 DATE: 10/16/2017 2:47:07 PM

LINEAR FEET OF STONE PROTECTION	500 LF
LINEAR FEET OF SHEET PILE	298 LF
VOLUME OF FILL BELOW HTL (FILL IN WOVS)	127.09 CY

SH 87 LAYOUT SHEETS

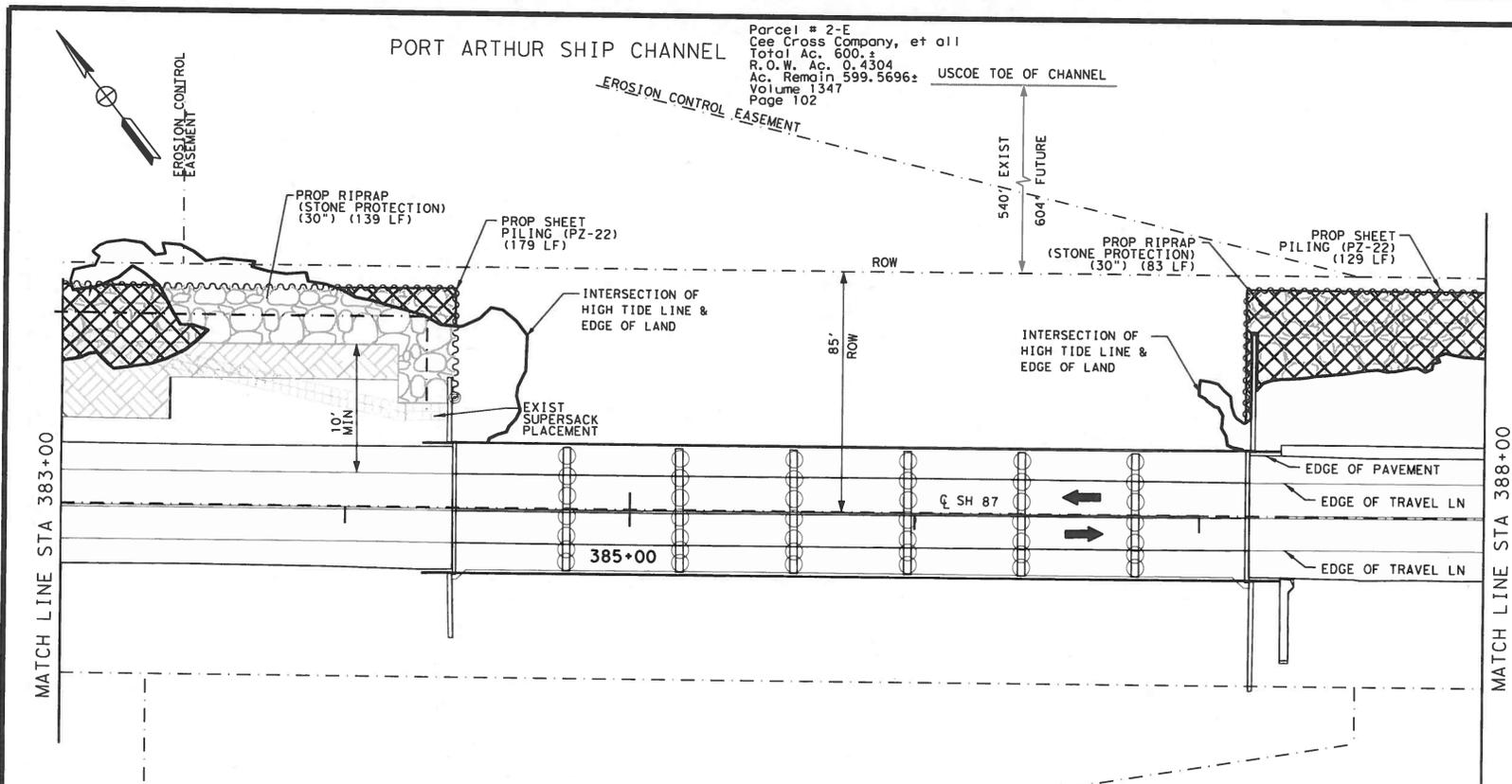


SHEET 30 OF 33



FED. RD. DIV. NO.	MAINTENANCE PROJECT			SHEET NO.
6				77
STATE	DISTRICT	COUNTY		
TEXAS	BMT	JEFFERSON		
CONTROL	SECTION	JOB	HIGHWAY NO.	
6323	94	001	SH 87	

FILE: Y:\LOCAL\BMT AQ-HQ\Emergency\Contract\DDON\CORPS PLANS\SH87 EROSION REPAIR SHEET 31 (STA 383+00 to STA 388+00).dgn
 DATE: 10/16/2012 12:47:09 PM



LEGEND

- SHEETPILE
- STONE PROTECTION
- FILL IN WOVS
- SUPER SACKS

Parcel # 2-E
 Cee Cross Company, et all
 Total Ac. 600.±
 R.O.W. Ac. 0.4304
 Ac. Remain 599.5696±
 Volume 1347
 Page 102

Parcel # 1-E-1
 Cee Cross Company, et all
 Total Ac. 600.±
 R.O.W. Ac. 0.583
 Ac. Remain 599.5696±
 Volume 1347
 Page 100

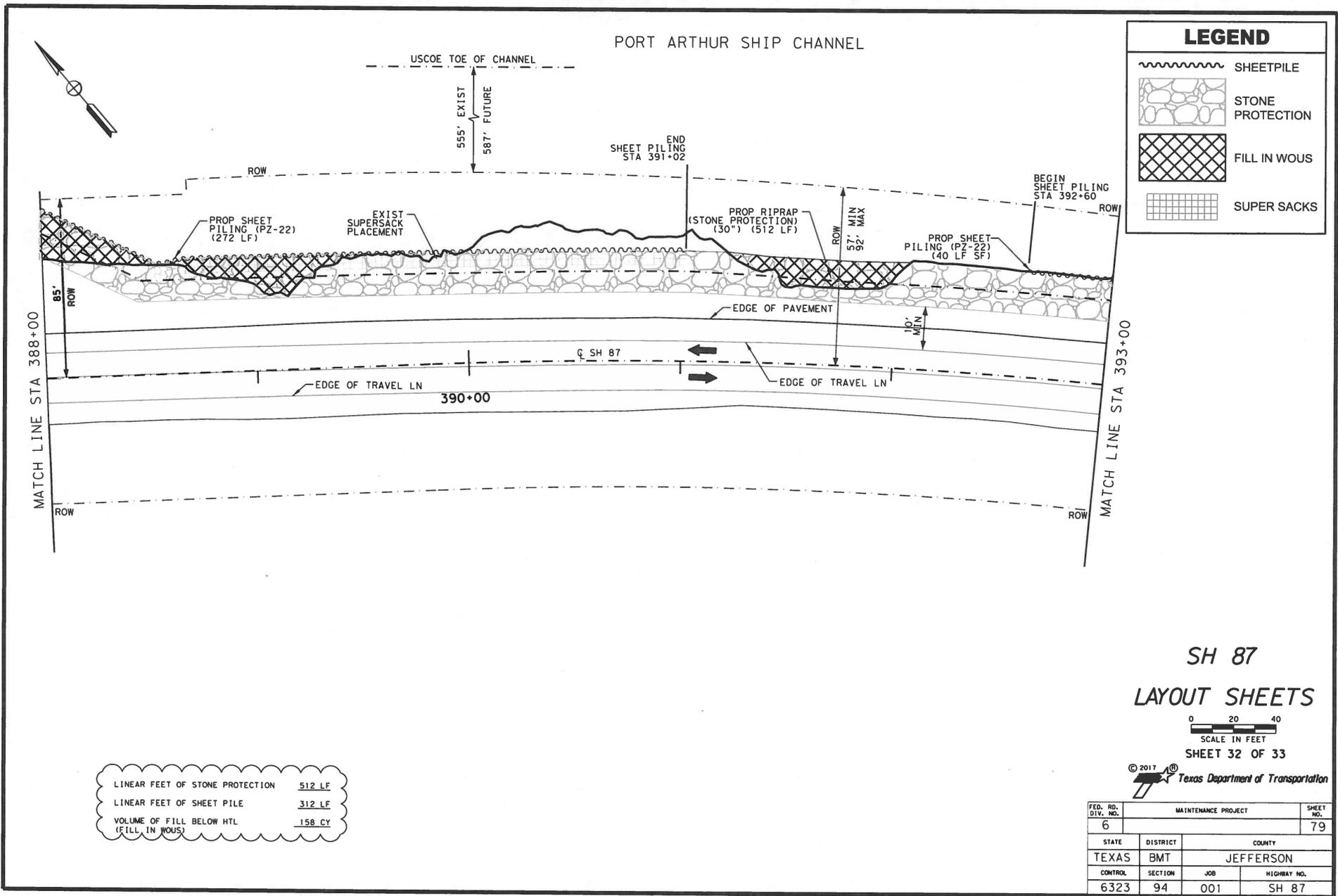
LINEAR FEET OF STONE PROTECTION	222 LF
LINEAR FEET OF SHEET PILE	308 LF
VOLUME OF FILL BELOW HTL (FILL IN WOVS)	62.04 CY

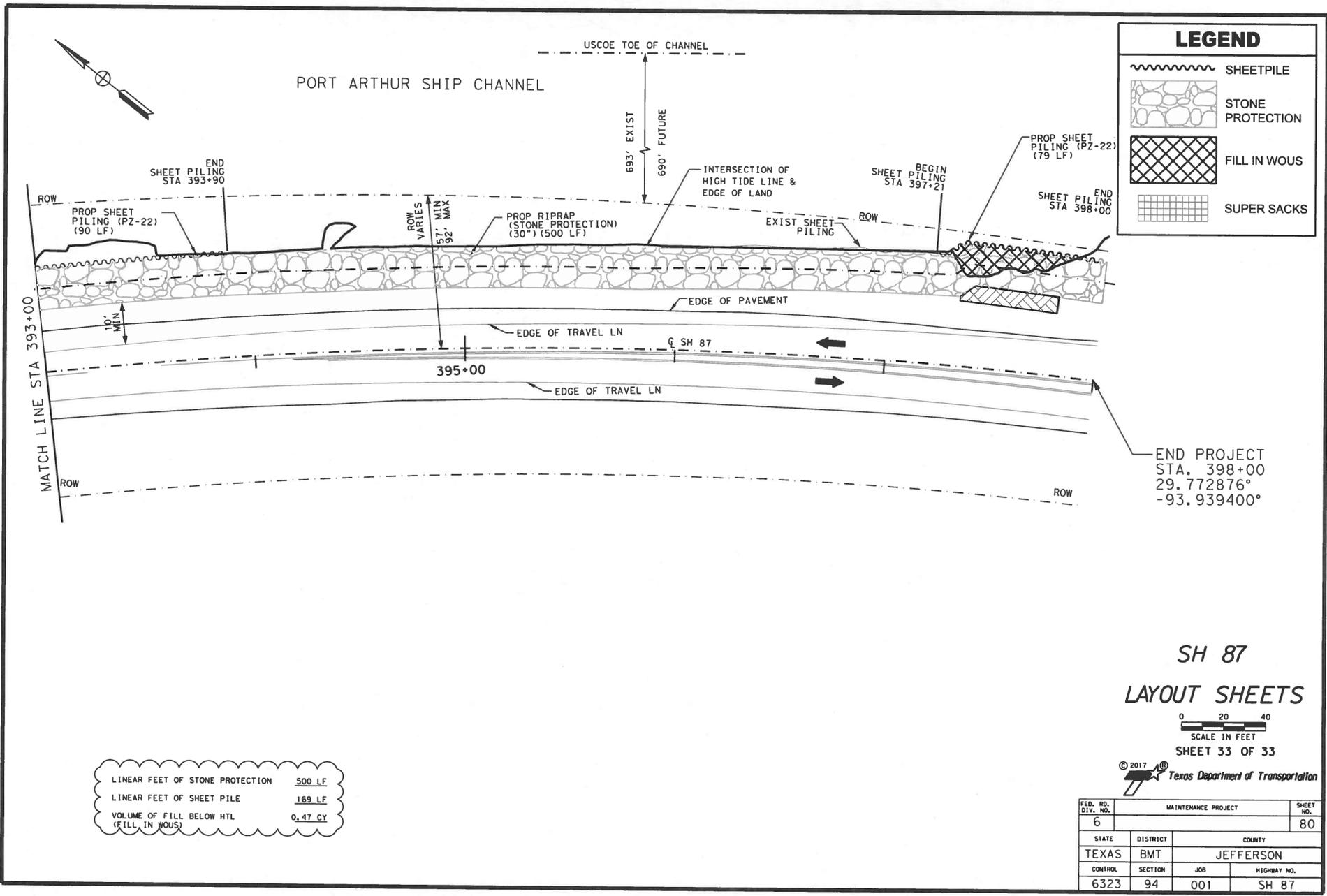
**SH 87
 LAYOUT SHEETS**



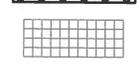
SHEET 31 OF 33
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FED. RD. DIV. NO.	MAINTENANCE PROJECT		SHEET NO.
6			78
STATE	DISTRICT	COUNTY	
TEXAS	BMT	JEFFERSON	
CONTROL	SECTION	JOB	HIGHWAY NO.
6323	94	001	SH 87





LEGEND

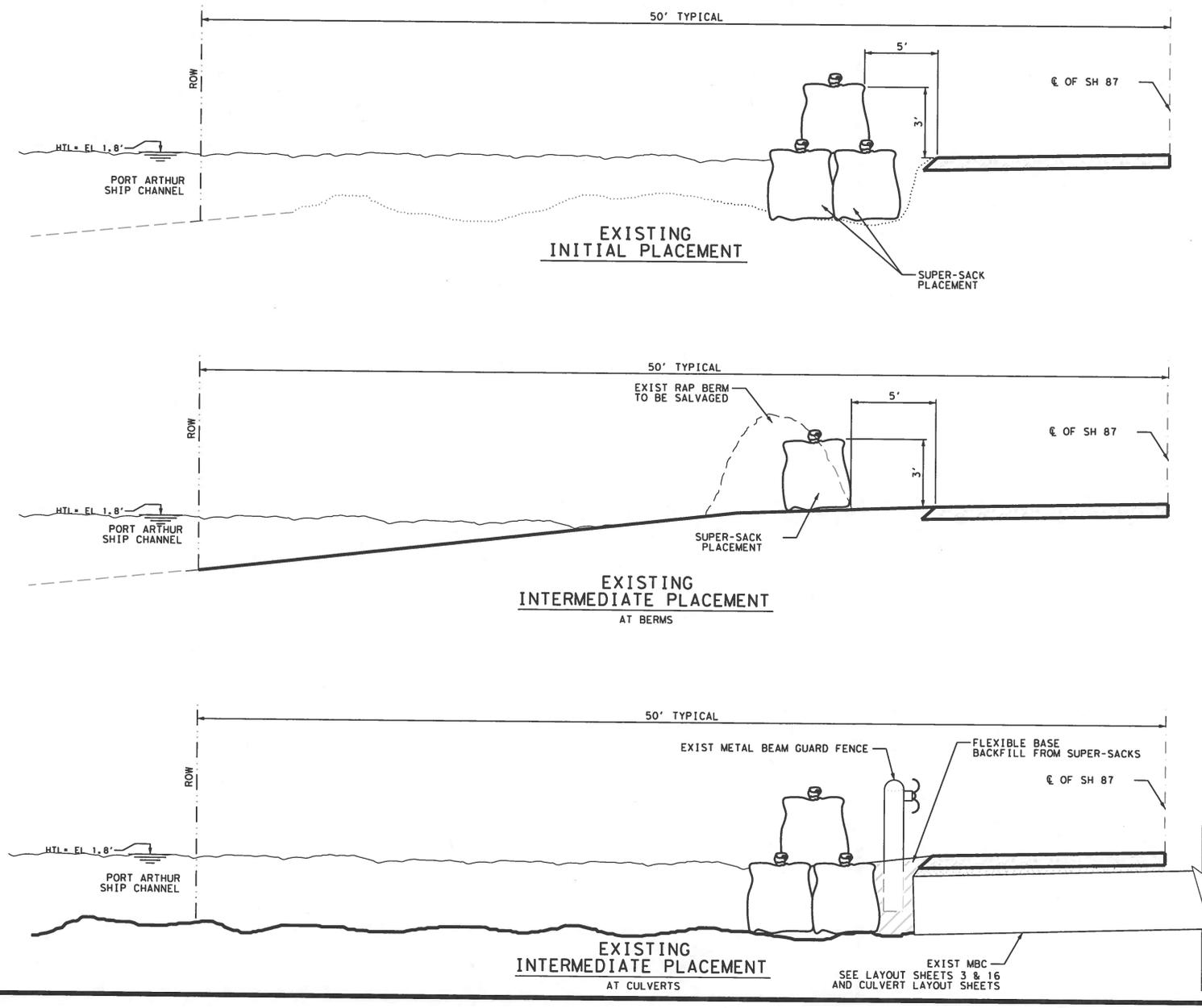
-  SHEETPILE
-  STONE PROTECTION
-  FILL IN WOOUS
-  SUPER SACKS

LINEAR FEET OF STONE PROTECTION	500 LF
LINEAR FEET OF SHEET PILE	169 LF
VOLUME OF FILL BELOW HTL (FILL IN WOOUS)	0.47 CY

SH 87
LAYOUT SHEETS
 SCALE IN FEET
 SHEET 33 OF 33
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FED. RD. DIV. NO.	MAINTENANCE PROJECT			SHEET NO.
6				80
STATE	DISTRICT	COUNTY		
TEXAS	BMT	JEFFERSON		
CONTROL	SECTION	JOB	HIGHWAY NO.	
6323	94	001	SH 87	

FILE: Y:\LOCAL\BMT AD-MO\Line\Agency\Contr\oct\DCNN\CORPS PLANS\SH87 EROSION REPAIR SHEET 33 (STA 393+00 to STA 398+00).dgn
 DATE: 10/16/2017 2:47:14 PM



**SH 87
TYPICAL SUPER-SACK PLACEMENT**

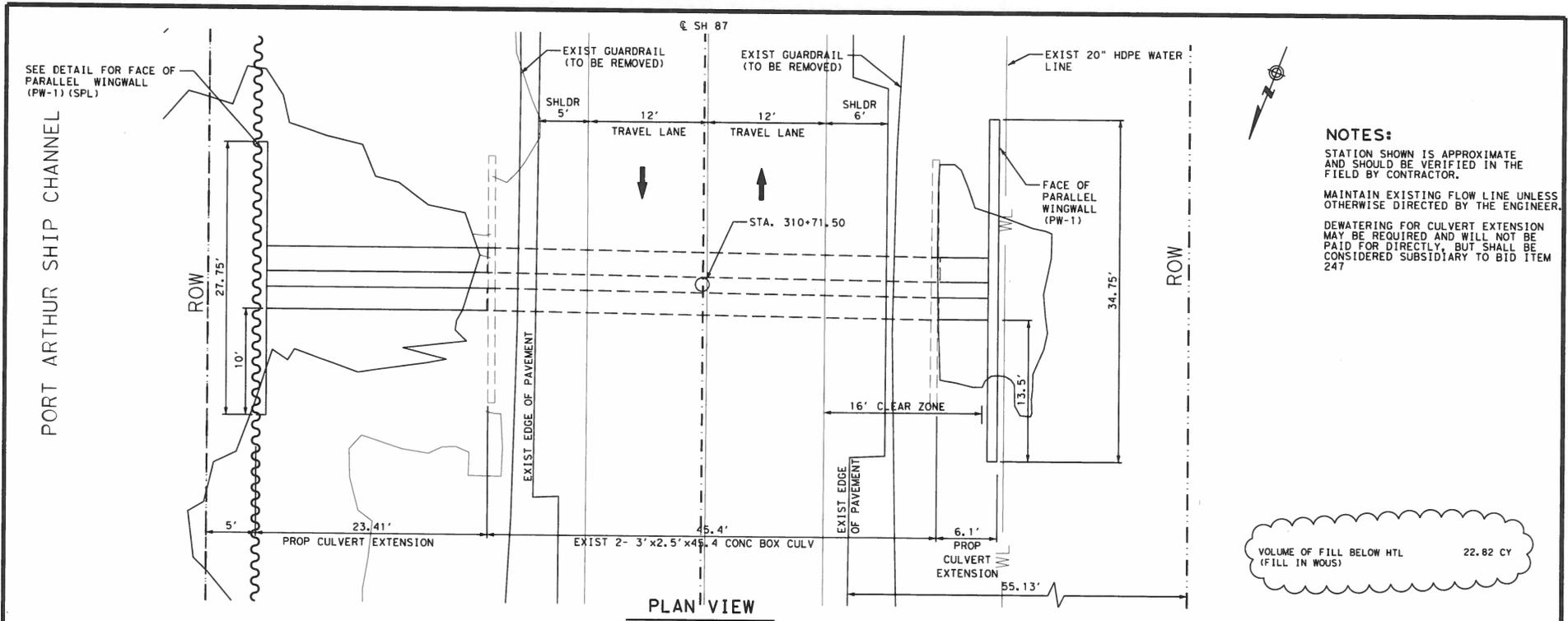
NTS

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SHEET 1 OF 1

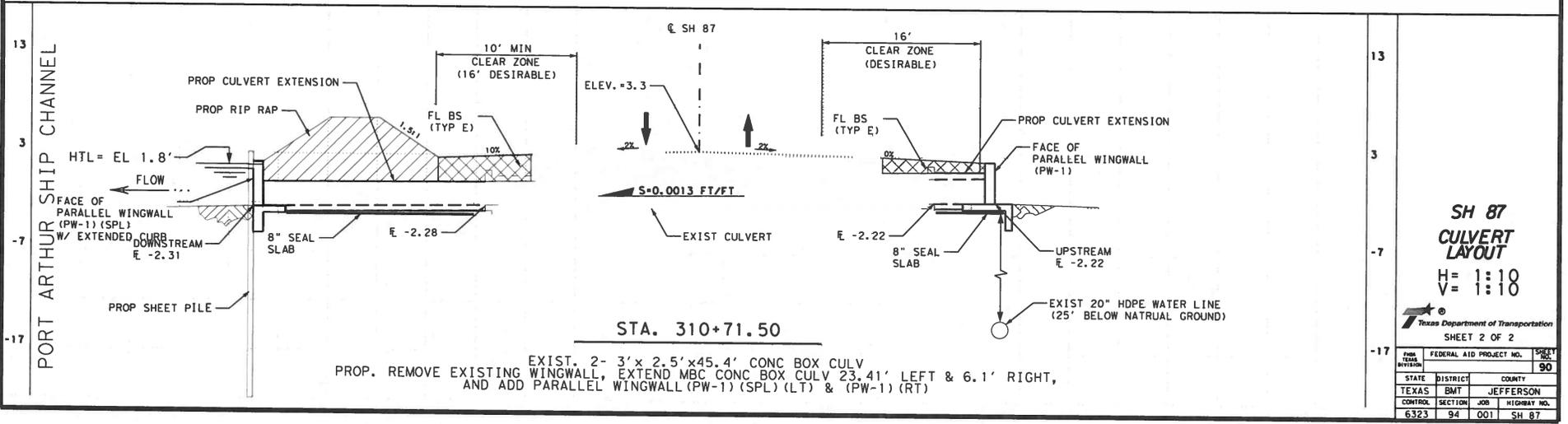
FROM TEXAS DIVISION	FEDERAL AID PROJECT NO.	SHEET NO.
STATE	DISTRICT	COUNTY
TEXAS	BMT	JEFFERSON
CONTROL	SECTION	JOB
6323	94	001
		SH 87

FILE: Y:\LOCAL\BMT AQ-MO\Emergency\Contract\DCGN\CORPS PLANS\BARRIER DETAILS.dgn
DATE: 10/16/2017 2:45:39 PM



NOTES:
 STATION SHOWN IS APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD BY CONTRACTOR.
 MAINTAIN EXISTING FLOW LINE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 DEWATERING FOR CULVERT EXTENSION MAY BE REQUIRED AND WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO BID ITEM 247

VOLUME OF FILL BELOW HTL (FILL IN WOVS) 22.82 CY



EXIST. 2- 3' x 2.5' x 45.4' CONC BOX CULV
 PROP. REMOVE EXISTING WINGWALL, EXTEND MBC CONC BOX CULV 23.41' LEFT & 6.1' RIGHT,
 AND ADD PARALLEL WINGWALL (PW-1) (SPL) (LT) & (PW-1) (RT)

**SH 87
 CULVERT
 LAYOUT**
 H = 1:10
 V = 1:10

Texas Department of Transportation
 SHEET 2 OF 2

STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	BMT	JEFFERSON	90
CONTROL	SECTION	JOB	HIGHWAY NO.
6323	94	001	SH 87