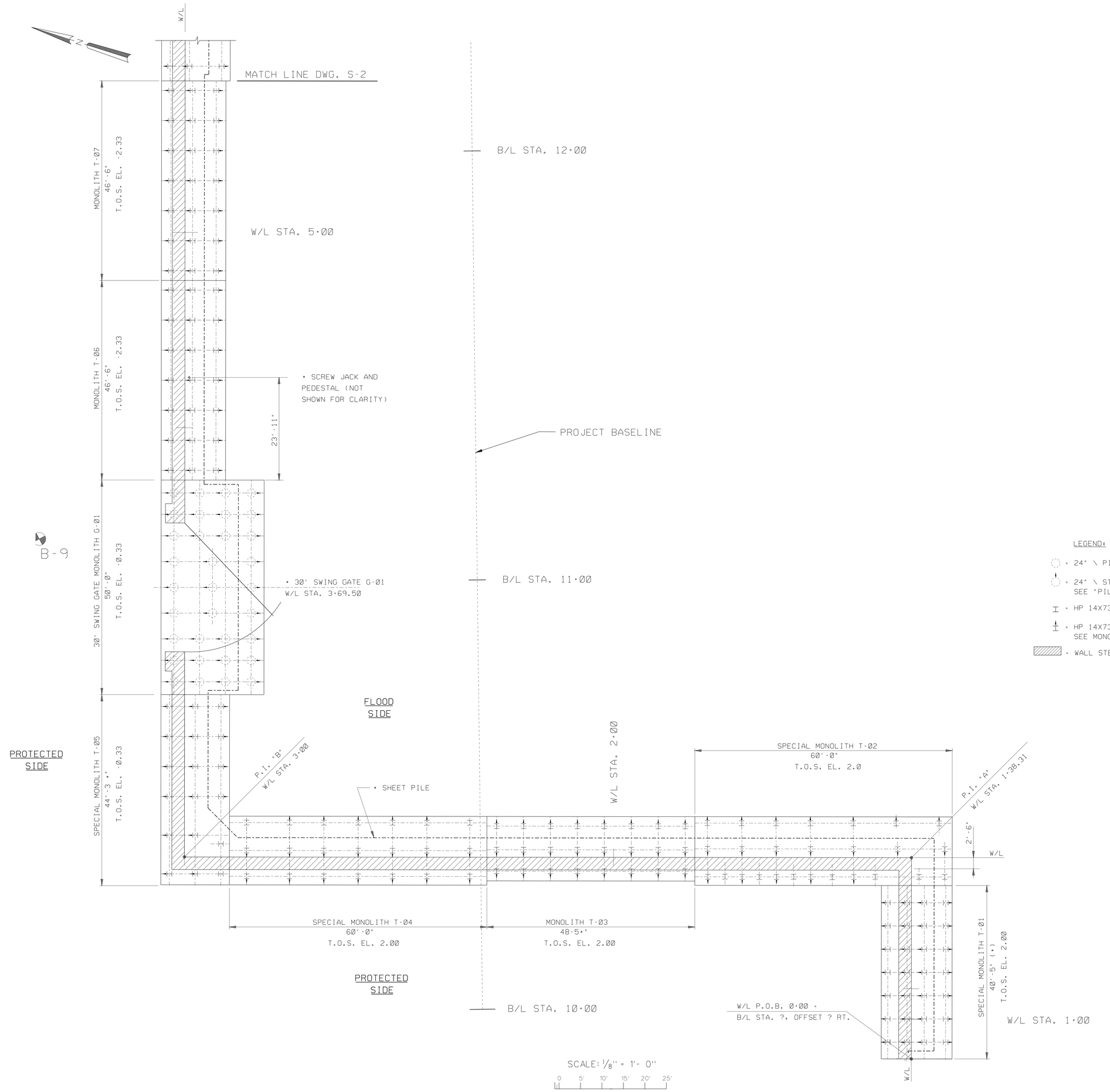
The below notes are for drawings S-1 thru S-18

NOTES:

1. FOR PILE TYPE, LENGTH AND BATTER, SEE ATTACHED SCHEDULE.
2. FOR SOIL BORINGS, SEE DRAWINGS G-01 THROUGH G-06



LEGEND:

- 24" \ PIPE PILE, VERTICAL
- 24" \ STEEL PIPE PILE BATTERED IN DIRECTION OF ARROW. SEE "PILING SCHEDULE", FOR PILE BATTERS.
- HP 14X73, VERTICAL
- HP 14X73 BATTERED IN DIRECTION OF ARROW, BATTERS VARY. SEE MONOLITH PLANS.
- WALL STEM

TYPICAL FLOODWALL LAYOUT

US ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.
	AMEND. 0002	9/06	S.J.N.

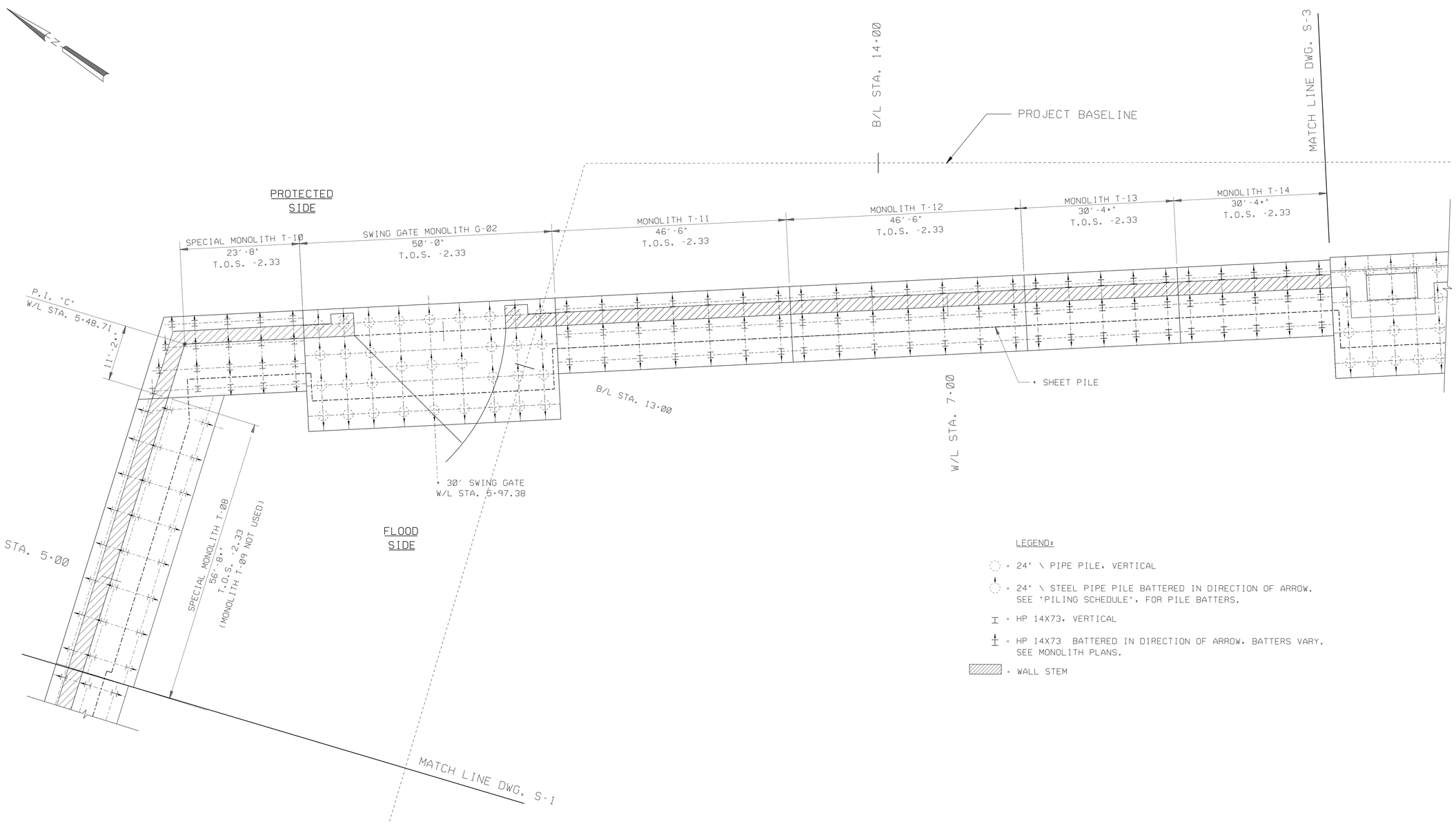
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

DESIGNED BY: X.X.X.
CHECKED BY: X.X.X.
DRAWN BY: R.G.L.
DATE: 8/14/2006

PLOT SCALE: 96
PLOT DATE: 8/14/06
DESIGN FILE NAME: ECH-S01.DGN
SUBMITTED BY: DESIGN ENGINEER
SOLICITATION NO. W912P8-06-R-0183

FILE NUMBER H-4-45982

DWG. S-1 OF X



LEGEND:

- ◌ = 24" \ PIPE PILE, VERTICAL
- ◌ = 24" \ STEEL PIPE PILE BATTERED IN DIRECTION OF ARROW. SEE "PILING SCHEDULE", FOR PILE BATTERS.
- I = HP 14X73, VERTICAL
- I = HP 14X73 BATTERED IN DIRECTION OF ARROW, BATTERS VARY. SEE MONOLITH PLANS.
- ▨ = WALL STEM

TYPICAL FLOODWALL LAYOUT

SCALE: 1/8" = 1'- 0"

0 5' 10' 15' 20' 25'

US ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.
1	NEW DRAWING.			AMEND. 0002		9/26	S.J.K.

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

DESIGNED BY: X
CHECKED BY: X
DRAWN BY: R.G.L.
DATE: 8/14/2006

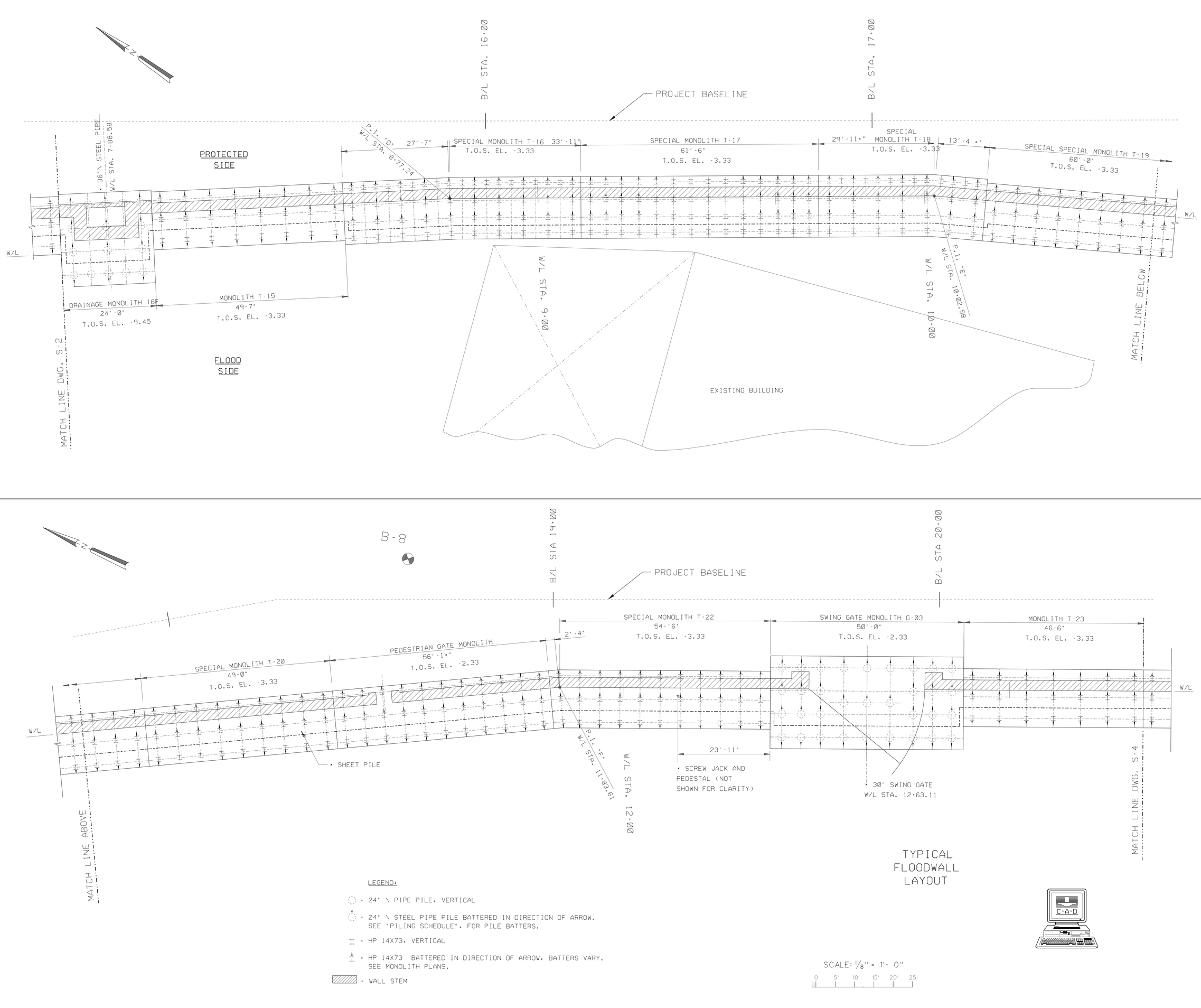
PLOT SCALE: 96
PLOT DATE: 8/14/06

DESIGN FILE NAME: EDH-S02.DGN
SUBMITTED BY: .....
DESIGN ENGINEER: .....

SOLICITATION NO. W912P8-06-R-0183

FILE NUMBER H-4-45982

DWG. S-2 OF X



US ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.
1	NEW DRAWING.			AMEND. 00022	9/26	S.J.N.	

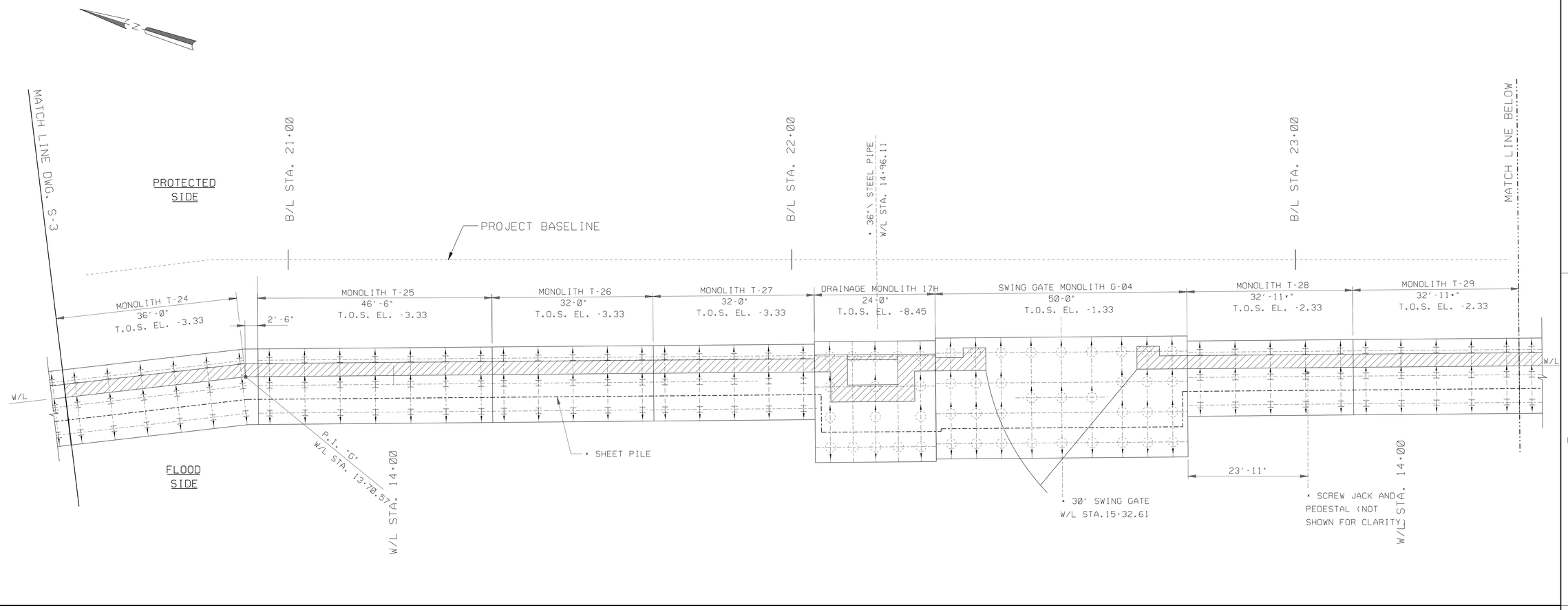
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

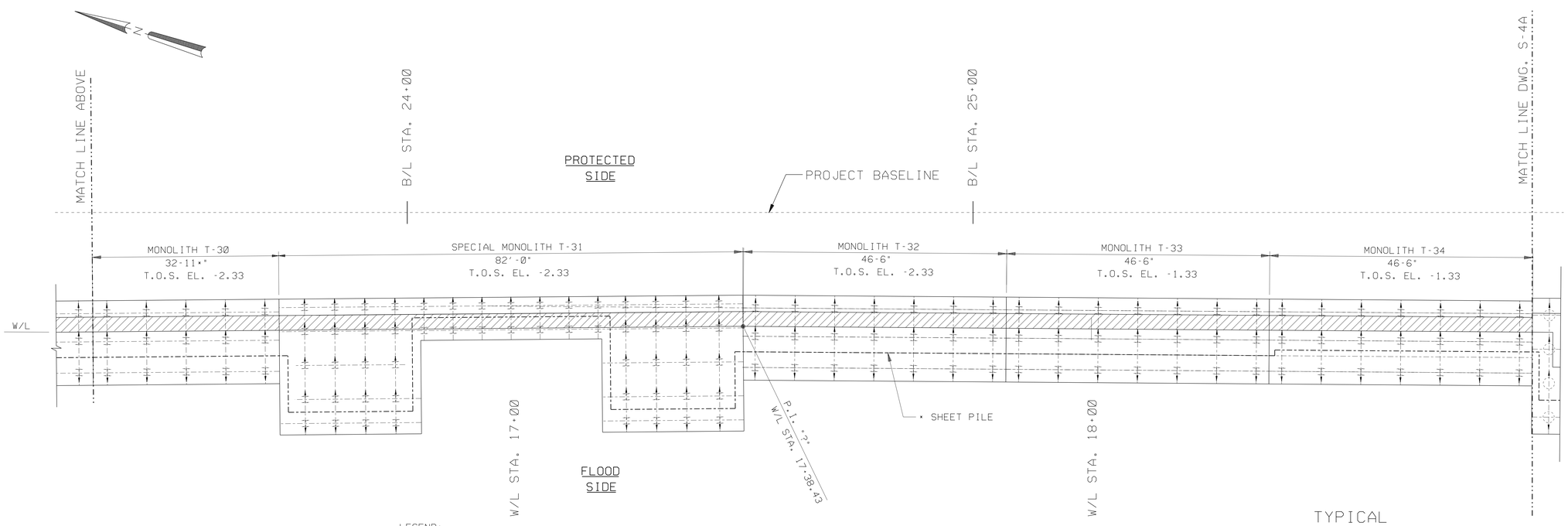
DESIGNED BY: X
CHECKED BY: X
DRAWN BY: R.G.L.
DATE: 8/14/2006

PLOT SCALE: 96
PLOT DATE: 8/14/06

DESIGN FILE NAME: ECH-S03.DGN
SUBMITTED BY:
DESIGN ENGINEER
SOLICITATION NO. W912P8-06-R-0183

FILE NUMBER
H-4-45982
DWG. S-3 OF X





TYPICAL FLOODWALL LAYOUT

LEGEND:

- • 24" \ PIPE PILE, VERTICAL
- • 24" \ STEEL PIPE PILE BATTERED IN DIRECTION OF ARROW. SEE "PILING SCHEDULE", FOR PILE BATTERS.
- • HP 14X73, VERTICAL
- • HP 14X73 BATTERED IN DIRECTION OF ARROW, BATTERS VARY. SEE MONOLITH PLANS.
- • WALL STEM

SCALE: 1/8" = 1'- 0"

0 5' 10' 15' 20' 25'

US ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.
1	NEW DRAWING.		

MARK	DESCRIPTION	DATE	APPR.
	AMEND. 0002	9/06	S.J.K.

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

DESIGNED BY: X
CHECKED BY: X
DRAWN BY: R.G.L.
DATE: 8/14/2006

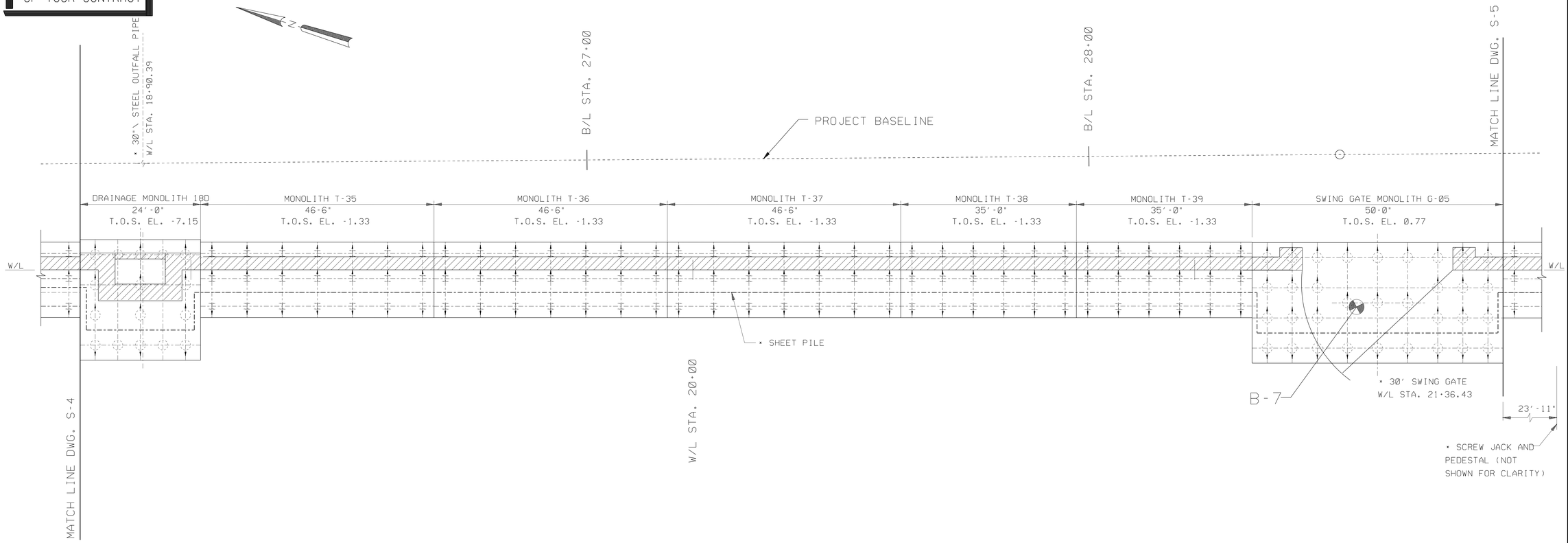
PLOT SCALE: %
PLOT DATE: 8/14/06

DESIGN FILE NAME: ECH-S04.DGN
SUBMITTED BY:
DESIGN ENGINEER:
SOLICITATION NO. W912P8-06-R-0183

FILE NUMBER H-4-45982

DWG. S-4 OF X

SAFETY IS A PART OF YOUR CONTRACT



TYPICAL FLOODWALL LAYOUT

LEGEND:

- ○ = 24" \ PIPE PILE, VERTICAL
- ○ = 24" \ STEEL PIPE PILE BATTERED IN DIRECTION OF ARROW. SEE "PILING SCHEDULE", FOR PILE BATTERS.
- ⊥ = HP 14X73 BATTERED IN DIRECTION OF ARROW, BATTERS VARY. SEE MONOLITH PLANS.
- ▨ = WALL STEM

SCALE: 1/8" = 1'- 0"

0 5' 10' 15' 20' 25'

US ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.
△	NEW DRAWING.		

MARK	DESCRIPTION	DATE	APPR.
	AMEND. 00021	9/26	S.J.N.

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

DESIGNED BY: X
CHECKED BY: X
DRAWN BY: R.G.L.
DATE: 8/14/2006

PLOT SCALE: %
PLOT DATE: 8/14/06

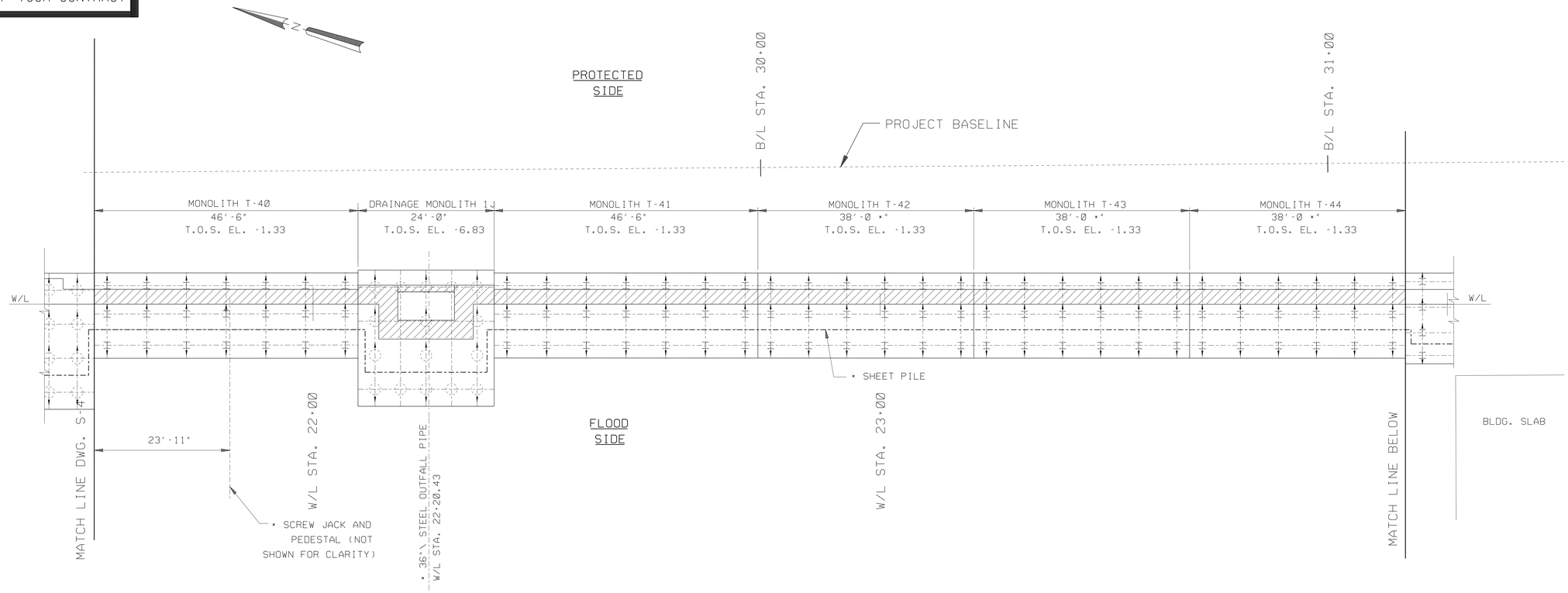
DESIGN FILE NAME: EDH-S04A.DGN
SUBMITTED BY:
DESIGN ENGINEER
SOLICITATION NO. W912P8-06-R-0183

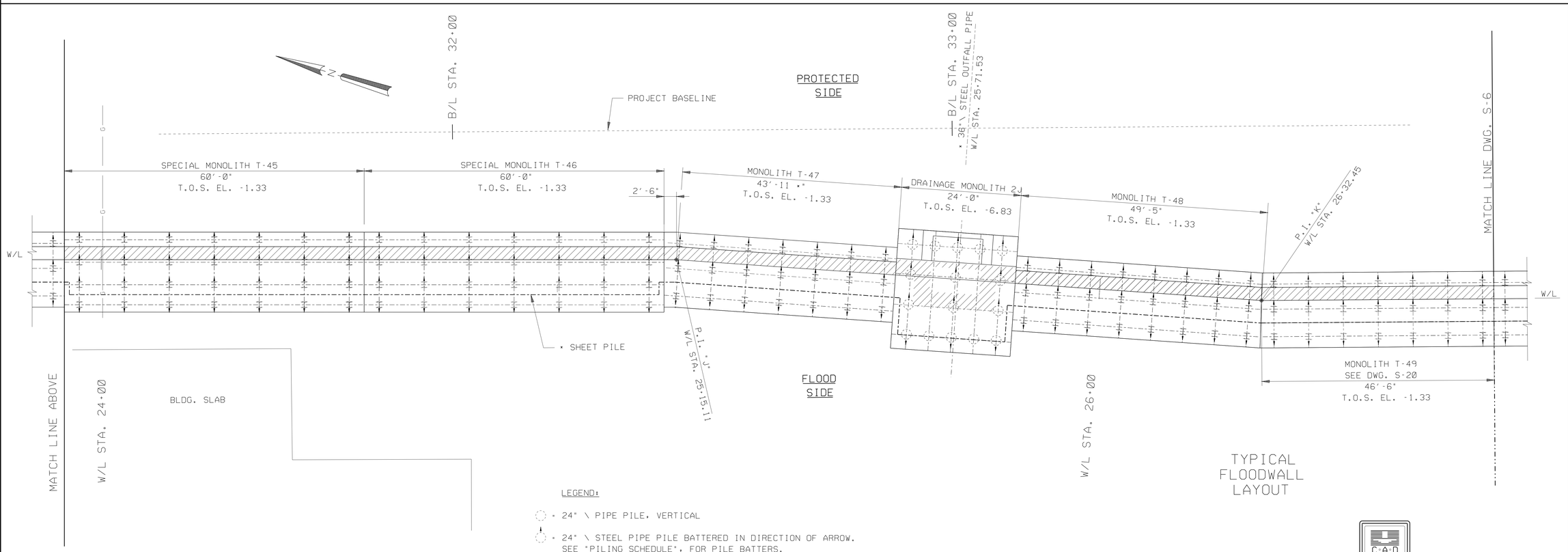
△ FILE NUMBER H-4-45982

DWG. S-4A OF X

VALUE INCENTIVE CLAUSES — YOUR KEY TO HIGHER PROFITS

SAFETY IS A PART OF YOUR CONTRACT





TYPICAL FLOODWALL LAYOUT

LEGEND:

- 24" \ PIPE PILE, VERTICAL
- 24" \ STEEL PIPE PILE BATTERED IN DIRECTION OF ARROW. SEE "PILING SCHEDULE", FOR PILE BATTERS.
- HP 14X73, VERTICAL
- HP 14X73 BATTERED IN DIRECTION OF ARROW, BATTERS VARY. SEE MONOLITH PLANS.
- WALL STEM

SCALE: 1/8" = 1'- 0"

0 5' 10' 15' 20' 25'

C·A·D

US ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.
1	NEW DRAWING.			AMEND. 00021		9/26	S.J.N.

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

DESIGNED BY: K
CHECKED BY: X
DRAWN BY: R.G.L.
DATE: 8/14/2006

PLOT SCALE: 96
PLOT DATE: 8/14/06

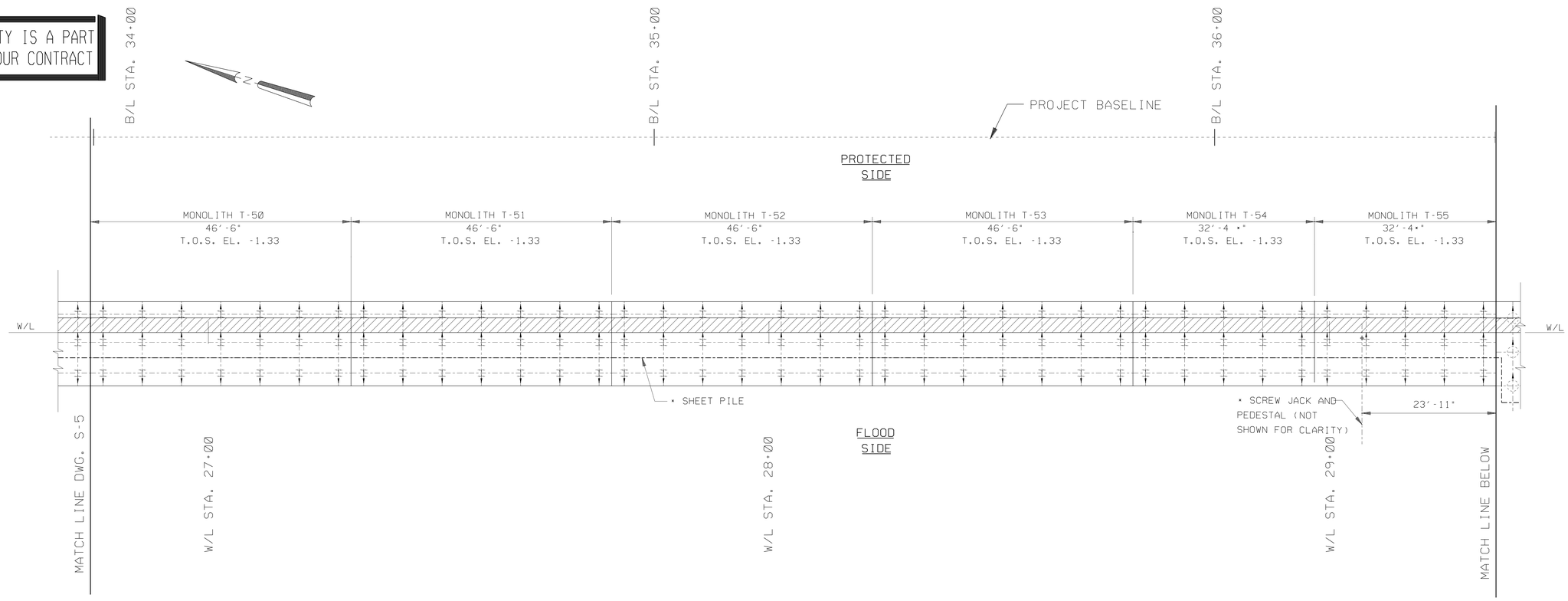
DESIGN FILE NAME: H-S05.DGN
SUBMITTED BY: DESIGN ENGINEER
SOLICITATION NO. W912P8-06-R-0183

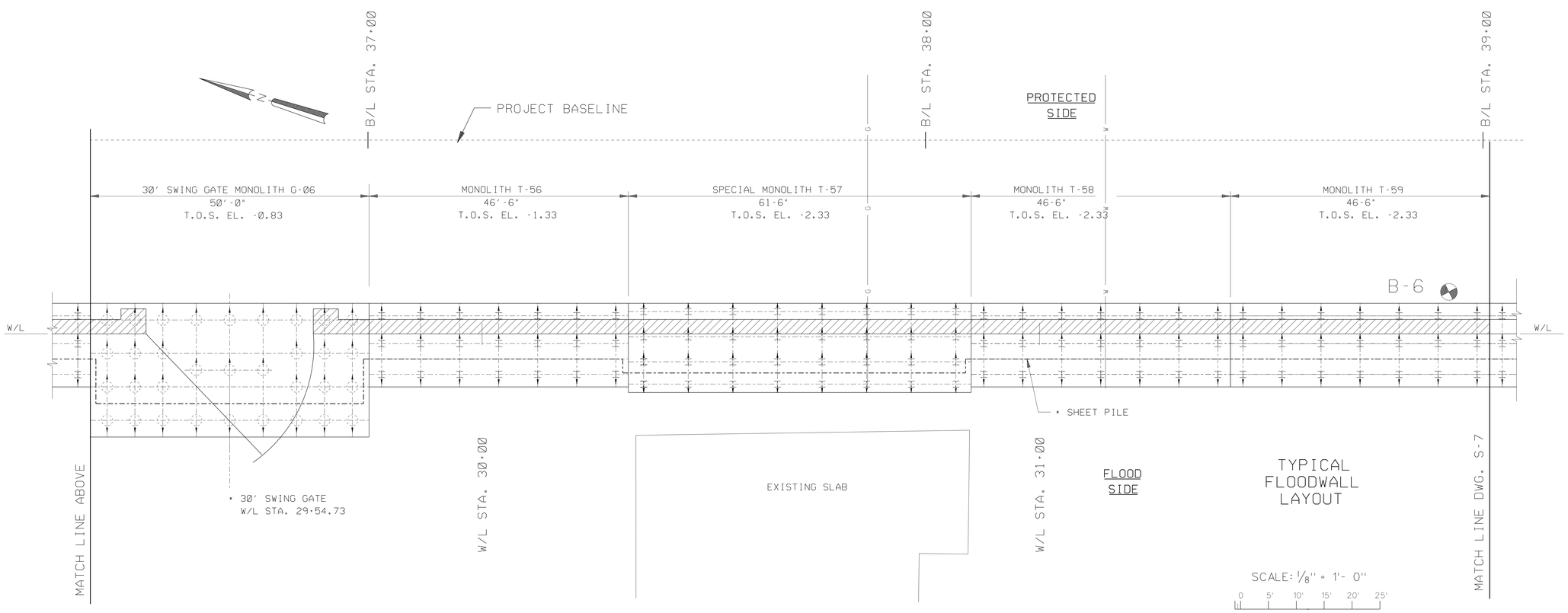
FILE NUMBER H-4-45982

DWG. S-5 OF X

LARGE BUSINESS INCENTIVE CLAUSE — YOUR KEY TO HIGHER PROFITS

SAFETY IS A PART OF YOUR CONTRACT





TYPICAL FLOODWALL LAYOUT

SCALE: 1/8" = 1'- 0"

0 5' 10' 15' 20' 25'

LEGEND:

- 24" \ PIPE PILE, VERTICAL
- 24" \ STEEL PIPE PILE BATTERED IN DIRECTION OF ARROW. SEE "PILING SCHEDULE", FOR PILE BATTERS.
- HP 14X73 BATTERED IN DIRECTION OF ARROW, BATTERS VARY. SEE MONOLITH PLANS.
- WALL STEM

VALUE ENGINEERING INCENTIVE CLAUSES YOUR KEY TO HIGHER PROFITS

US ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.
1	NEW DRAWING.		

MARK	DESCRIPTION	DATE	APPR.
	AMEND. 00021	9/26	S.J.N.

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

DESIGNED BY:X
CHECKED BY:X
DRAWN BY: R.G.L.
DATE: 8/14/2006

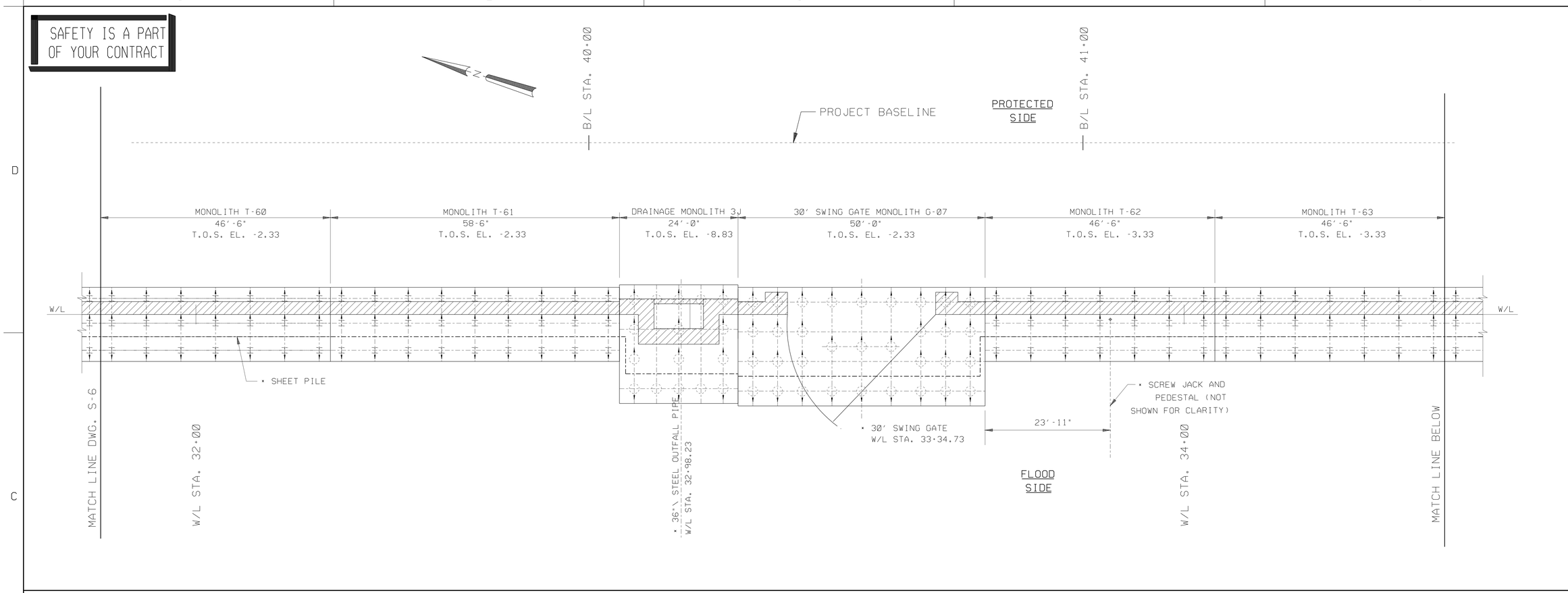
PLOT SCALE: 96
PLOT DATE: 8/14/06

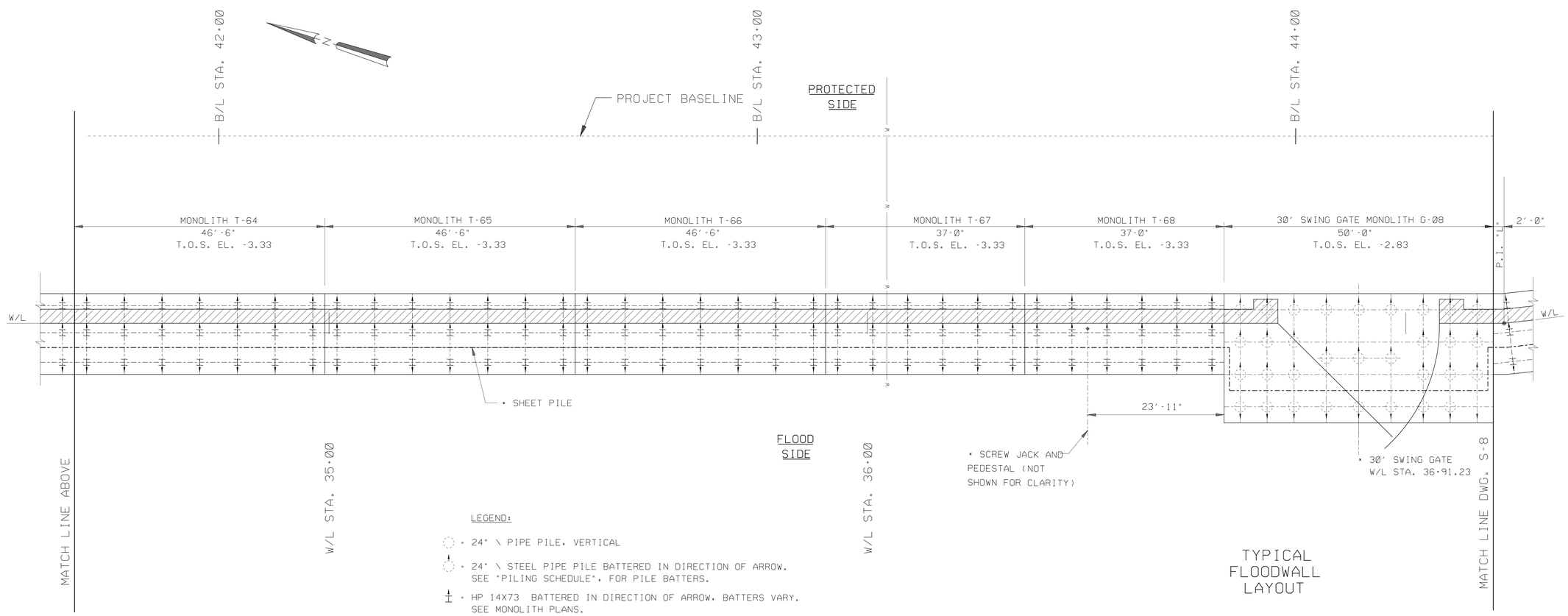
DESIGN FILE NAME:EDH-S06.DGN
SUBMITTED BY:
DESIGN ENGINEER
SOLICITATION NO. W912P8-06-R-0183

FILE NUMBER H-4-45982

DWG. S-6 OF X

SAFETY IS A PART OF YOUR CONTRACT





TYPICAL FLOODWALL LAYOUT

LEGEND:

- 24" \ PIPE PILE, VERTICAL
- 24" \ STEEL PIPE PILE BATTERED IN DIRECTION OF ARROW. SEE "PILING SCHEDULE", FOR PILE BATTERS.
- HP 14X73 BATTERED IN DIRECTION OF ARROW, BATTERS VARY. SEE MONOLITH PLANS.
- WALL STEM

NOTES:

1. FOR REQUIRED LADDER, SETTLEMENT MARKER, AND CORROSION PROTECTION LOCATIONS AND DETAILS, SEE SHEET S-77.
2. SEE DWG. S-53A FOR SCREW JACK PEDESTAL DETAILS.

SCALE: 1/8" = 1'- 0"

0 5' 10' 15' 20' 25'

US ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.
1	NEW DRAWING.	AMEND. 0002 9/06	S.J.M.

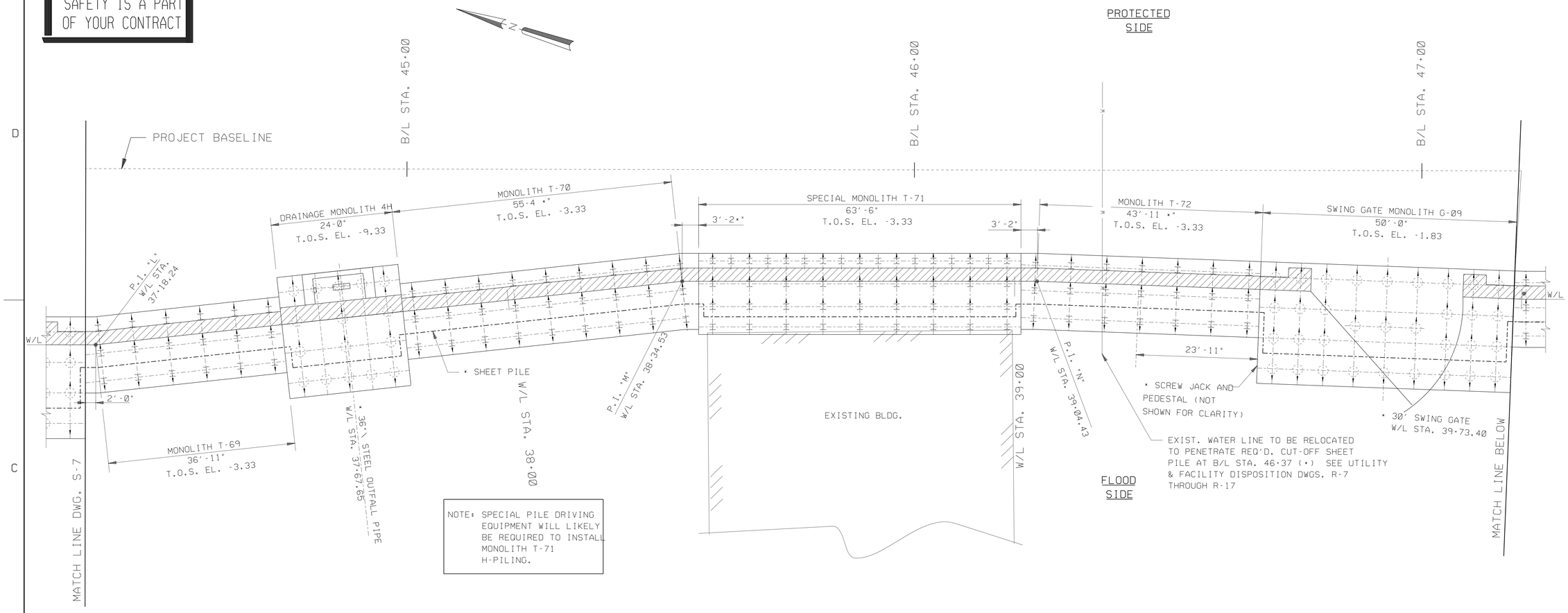
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

DESIGNED BY: X
CHECKED BY: X
DRAWN BY: R.G.L.
DATE: 8/14/2006
PLOT SCALE: 96
PLOT DATE: 8/14/06
DESIGN FILE NAME: EOH-S07.DGN
SUBMITTED BY:
DESIGN ENGINEER
SOLICITATION NO. W912P8-06-R-0183

FILE NUMBER H-4-45982

DWG. S-7 OF X

SAFETY IS A PART OF YOUR CONTRACT



B-5

NOTES:

1. BUILDING ADJACENT TO SPECIAL MONOLITH T-71 SHALL BE SURVEYED BY CONTRACTOR TO VERIFY BUILDING LOCATION AND ELEVATIONS PRIOR TO MOBILIZATION.
2. SPECIAL MONOLITH T-71 PROTECTED SIDE H-PILES SHALL BE DRIVEN IN SEGMENTS AND FIELD SPLICED AS NECESSARY TO AVOID CONFLICTS WITH ADJACENT BUILDING DURING PILE DRIVING OPERATIONS.

TYPICAL FLOODWALL LAYOUT

SCALE: 1/8" = 1'- 0"

0 5' 10' 15' 20' 25'

LEGEND:

- 24" \ PIPE PILE, VERTICAL
- 24" \ STEEL PIPE PILE BATTERED IN DIRECTION OF ARROW. SEE "PILING SCHEDULE", DWG. S-20 FOR PILE BATTERS.
- HP 14X73, VERTICAL
- HP 14X73 BATTERED IN DIRECTION OF ARROW, BATTERS VARY. SEE MONOLITH PLANS.
- WALL STEM

VALUE INCENTIVE CLAUSES ENGINEERING — YOUR KEY TO HIGHER PROFITS

US ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT

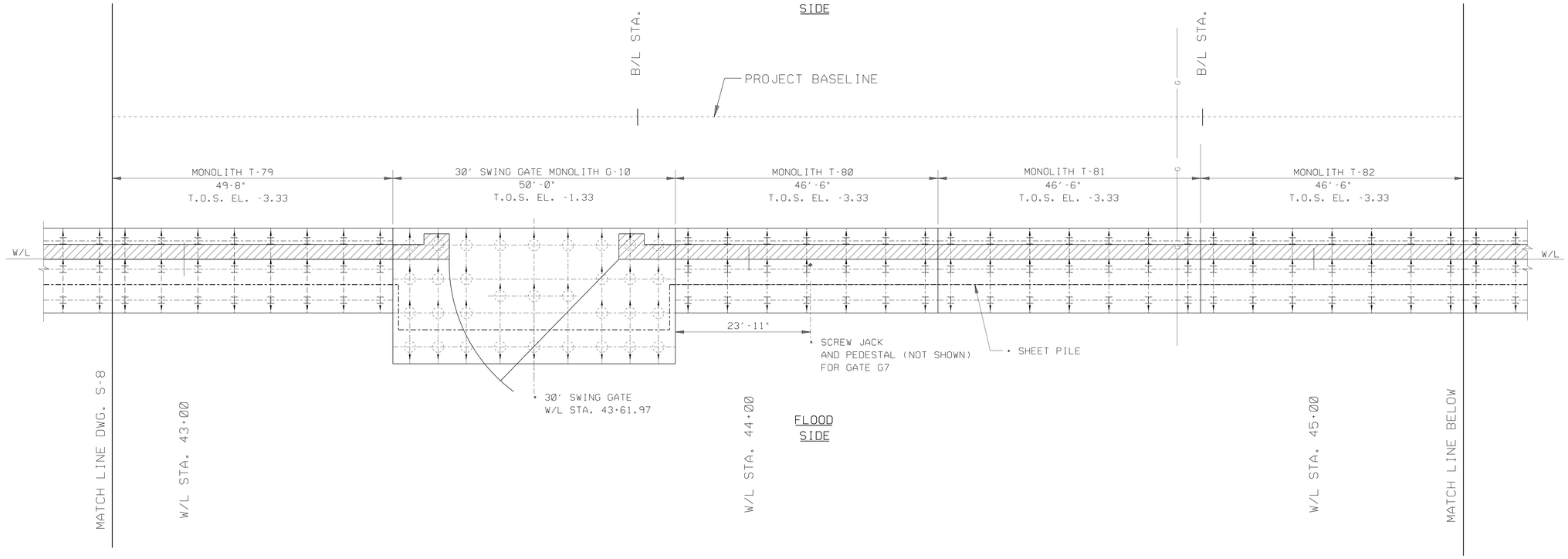
MARK	DESCRIPTION	DATE	APPR.
1	NEW DRAWING.		
	AMEND. 0002	9/06	S.J.M.

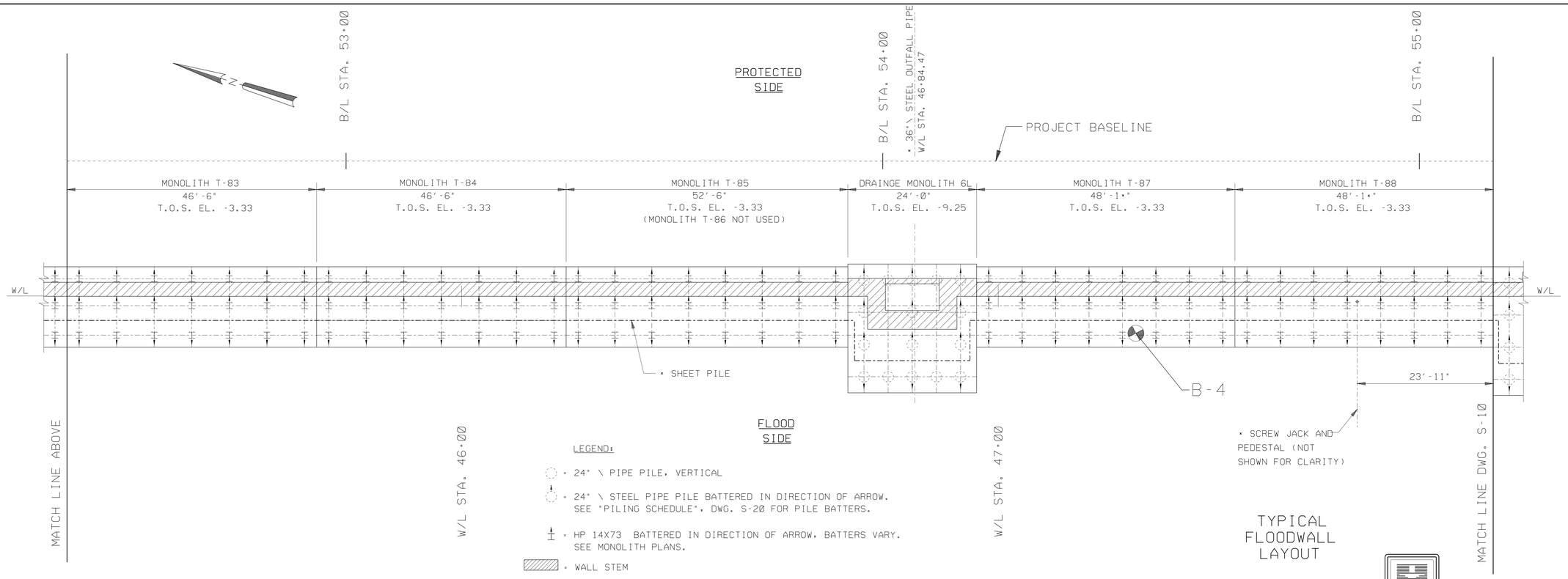
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

DESIGNED BY: X
CHECKED BY: X
DRAWN BY: R.G.L.
DATE: 8/14/2006
PLOT SCALE: 96
PLOT DATE: 8/14/06
DESIGN FILE NAME: EOH-S08.DGN
SUBMITTED BY: DESIGN ENGINEER
SOLICITATION NO. W912P8-06-R-0183

FILE NUMBER H-4-45982
DWG. S-8 OF X

SAFETY IS A PART OF YOUR CONTRACT





LEGEND:

- 24" \ PIPE PILE, VERTICAL
- 24" \ STEEL PIPE PILE BATTERED IN DIRECTION OF ARROW. SEE "PILING SCHEDULE", DWG. S-20 FOR PILE BATTERS.
- HP 14X73 BATTERED IN DIRECTION OF ARROW, BATTERS VARY. SEE MONOLITH PLANS.
- WALL STEM

TYPICAL FLOODWALL LAYOUT

SCALE: 1/8" = 1'- 0"

0 5' 10' 15' 20' 25'

VALUE INCENTIVE CLAUSE — YOUR KEY TO HIGHER PROFITS

US ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.
1	NEW DRAWING.		

MARK	DESCRIPTION	DATE	APPR.
	AMEND. 0002	9/06	S.J.M.

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

DESIGNED BY: K
CHECKED BY: X
DRAWN BY: R.G.L.
DATE: 8/14/2006

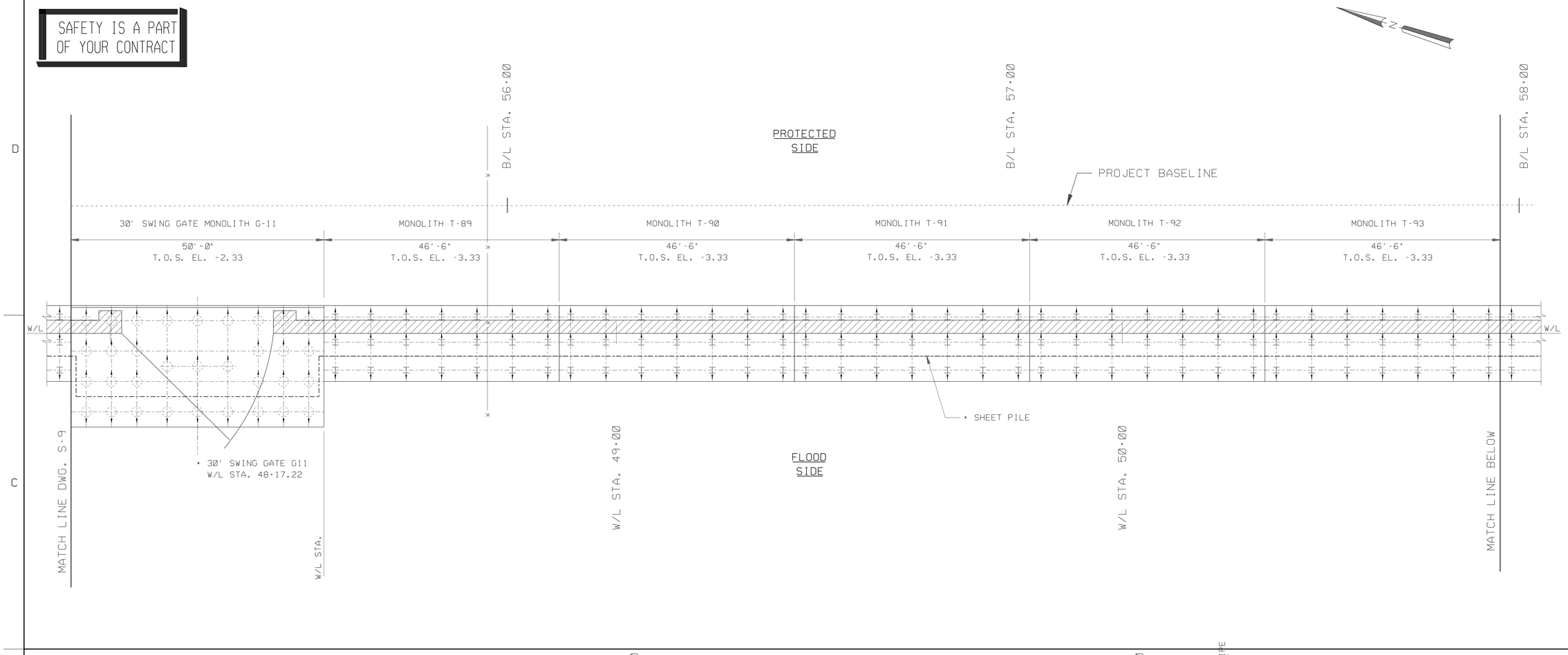
PLOT SCALE: 96
PLOT DATE: 8/14/06

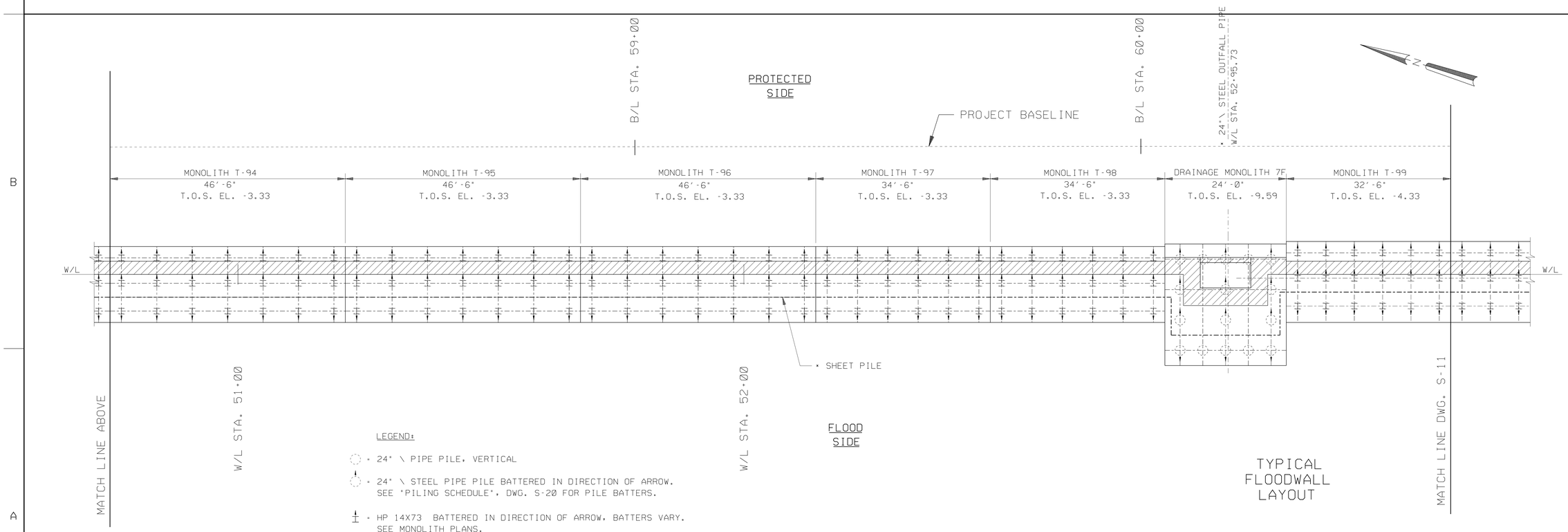
DESIGN FILE NAME: ECH-S09.DGN
SOLICITATION NO.: W912P8-06-R-0183
SUBMITTED BY: DESIGN ENGINEER

FILE NUMBER H-4-45982

DWG. S-9 OF X

SAFETY IS A PART OF YOUR CONTRACT





LEGEND:

- 24" \ PIPE PILE, VERTICAL
- 24" \ STEEL PIPE PILE BATTERED IN DIRECTION OF ARROW. SEE 'PILING SCHEDULE', DWG. S-20 FOR PILE BATTERS.
- HP 14X73 BATTERED IN DIRECTION OF ARROW, BATTERS VARY. SEE MONOLITH PLANS.
- WALL STEM

TYPICAL FLOODWALL LAYOUT

C-A-D

SCALE: 1/8" = 1'- 0"

0 5' 10' 15' 20' 25'

VALUE ENGINEERING INCENTIVE CLAUSE YOUR KEY TO HIGHER PROFITS

US ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.
1	NEW DRAWING.	AMEND. 00021 9/26	S.J.N.

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

DESIGNED BY: X
CHECKED BY: X
DRAWN BY: R.G.L.
DATE: 8/14/2006

PLOT SCALE: %6
PLOT DATE:

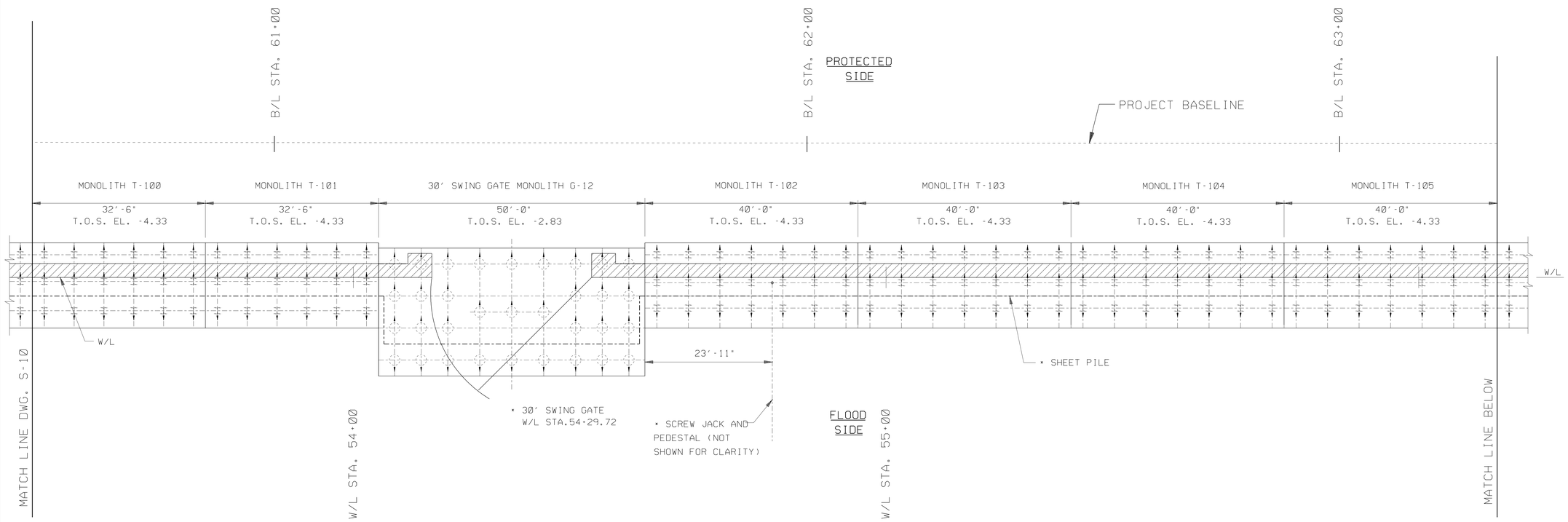
DESIGN FILE NAME: EDH-S10.DGN
SUBMITTED BY:
DESIGN ENGINEER:

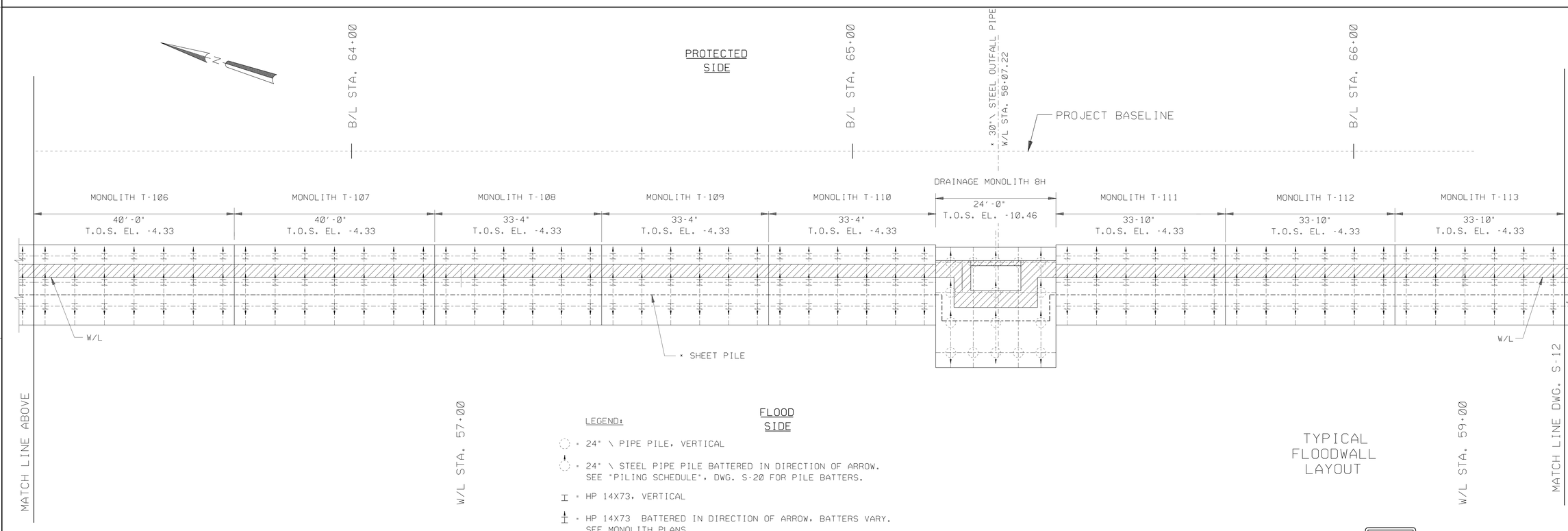
SOLICITATION NO.
W912P8-06-R-0183

FILE NUMBER
H-4-45982

DWG. S-10 OF X

SAFETY IS A PART OF YOUR CONTRACT





LEGEND:

- 24" \ PIPE PILE, VERTICAL
- 24" \ STEEL PIPE PILE BATTERED IN DIRECTION OF ARROW. SEE "PILING SCHEDULE", DWG. S-20 FOR PILE BATTERS.
- HP 14X73, VERTICAL
- HP 14X73 BATTERED IN DIRECTION OF ARROW, BATTERS VARY. SEE MONOLITH PLANS.
- WALL STEM

TYPICAL FLOODWALL LAYOUT

SCALE: 1/8" = 1'- 0"

0 5' 10' 15' 20' 25'

US ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR
1	NEW DRAWING.		
	AMEND. 0002	9/06	S.J.M.

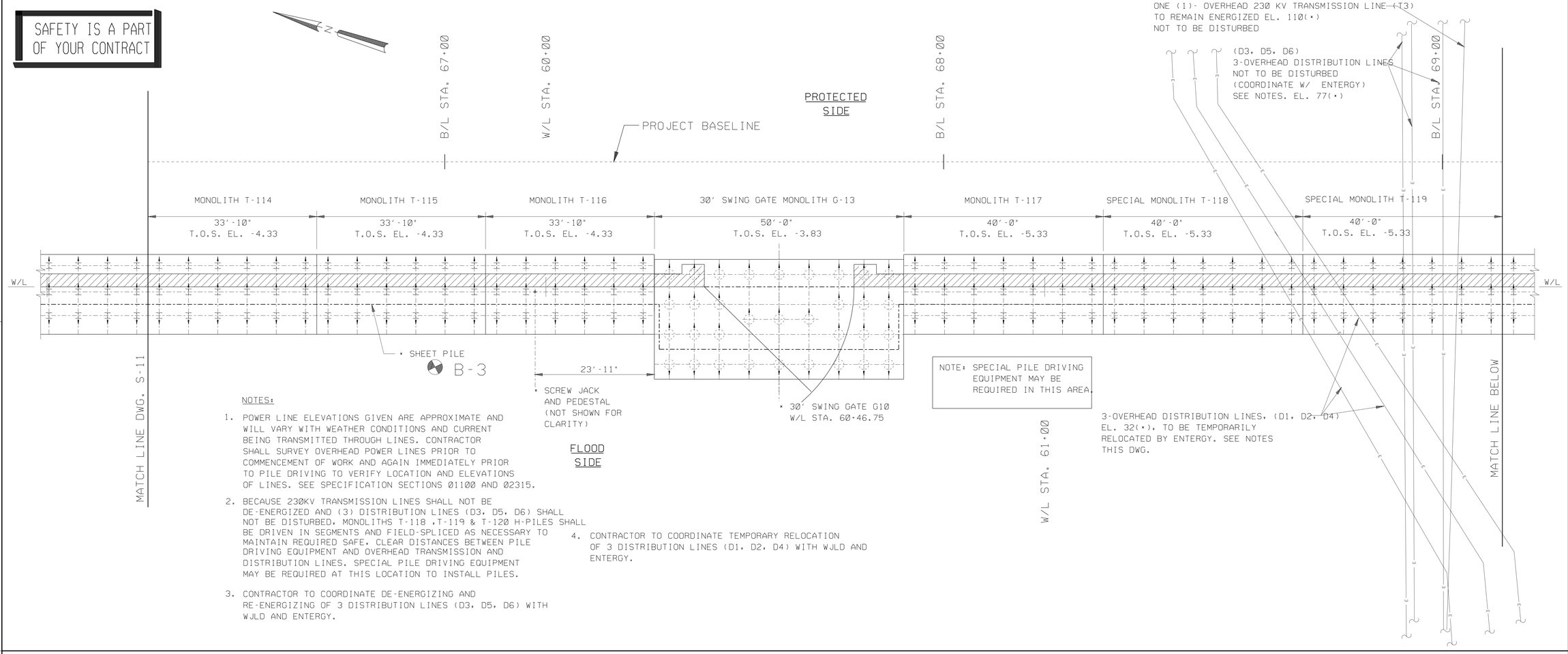
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

DESIGNED BY: X
CHECKED BY: X
DRAWN BY: R.G.L.
DATE: 8/14/2006

PLOT SCALE: 96
PLOT DATE: 8/14/06
DESIGN FILE NAME: EOH-S11.DGN
SUBMITTED BY: DESIGN ENGINEER
SOLICITATION NO. W912P8-06-R-0183

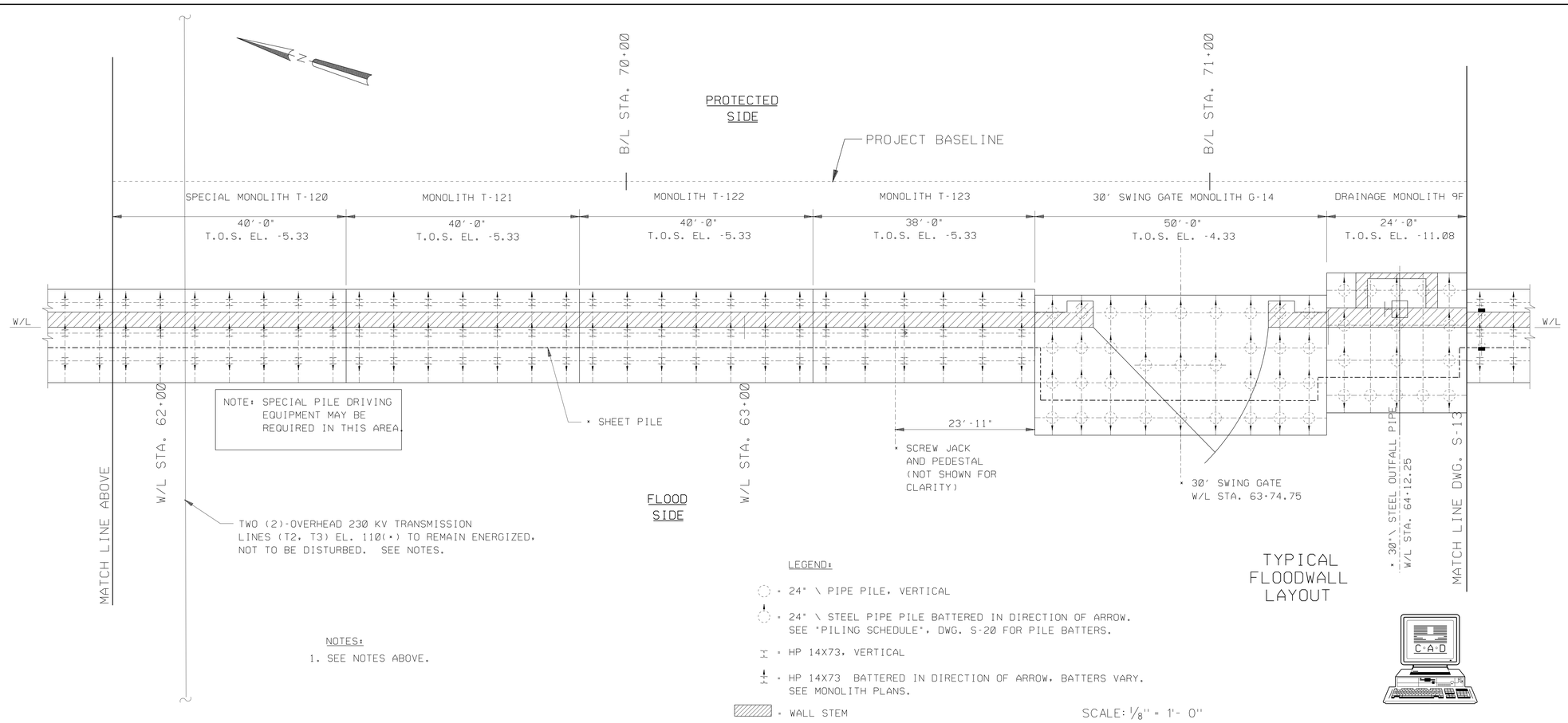
FILE NUMBER H-4-45982
DWG. S-11 OF X

SAFETY IS A PART OF YOUR CONTRACT



NOTES:

1. POWER LINE ELEVATIONS GIVEN ARE APPROXIMATE AND WILL VARY WITH WEATHER CONDITIONS AND CURRENT BEING TRANSMITTED THROUGH LINES. CONTRACTOR SHALL SURVEY OVERHEAD POWER LINES PRIOR TO COMMENCEMENT OF WORK AND AGAIN IMMEDIATELY PRIOR TO PILE DRIVING TO VERIFY LOCATION AND ELEVATIONS OF LINES. SEE SPECIFICATION SECTIONS 01100 AND 02315.
2. BECAUSE 230KV TRANSMISSION LINES SHALL NOT BE DE-ENERGIZED AND (3) DISTRIBUTION LINES (D3, D5, D6) SHALL NOT BE DISTURBED, MONOLITHS T-118 ,T-119 & T-120 H-PILES SHALL BE DRIVEN IN SEGMENTS AND FIELD-SPLICED AS NECESSARY TO MAINTAIN REQUIRED SAFE, CLEAR DISTANCES BETWEEN PILE DRIVING EQUIPMENT AND OVERHEAD TRANSMISSION AND DISTRIBUTION LINES. SPECIAL PILE DRIVING EQUIPMENT MAY BE REQUIRED AT THIS LOCATION TO INSTALL PILES.
3. CONTRACTOR TO COORDINATE DE-ENERGIZING AND RE-ENERGIZING OF 3 DISTRIBUTION LINES (D3, D5, D6) WITH WJLD AND ENTERGY.
4. CONTRACTOR TO COORDINATE TEMPORARY RELOCATION OF 3 DISTRIBUTION LINES (D1, D2, D4) WITH WJLD AND ENTERGY.



TYPICAL FLOODWALL LAYOUT

LEGEND:

- 24" \ PIPE PILE, VERTICAL
- 24" \ STEEL PIPE PILE BATTERED IN DIRECTION OF ARROW. SEE "PILING SCHEDULE", DWG. S-20 FOR PILE BATTERS.
- HP 14X73, VERTICAL
- HP 14X73 BATTERED IN DIRECTION OF ARROW, BATTERS VARY. SEE MONOLITH PLANS.
- WALL STEM
- TEST PILE (TP-1)

NOTES:

1. SEE NOTES ABOVE.

SCALE: 1/8" = 1'- 0"

0 5' 10' 15' 20' 25'

C-A-D

VALUE ENGINEERING INCENTIVE CLAUSES YOUR KEY TO HIGHER PROFITS

US ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.
1	NEW DRAWING.	AMEND. 00021	9/26 S.J.N.

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

DESIGNED BY: X
CHECKED BY: X
DRAWN BY: R.G.L.
DATE: 8/14/2006

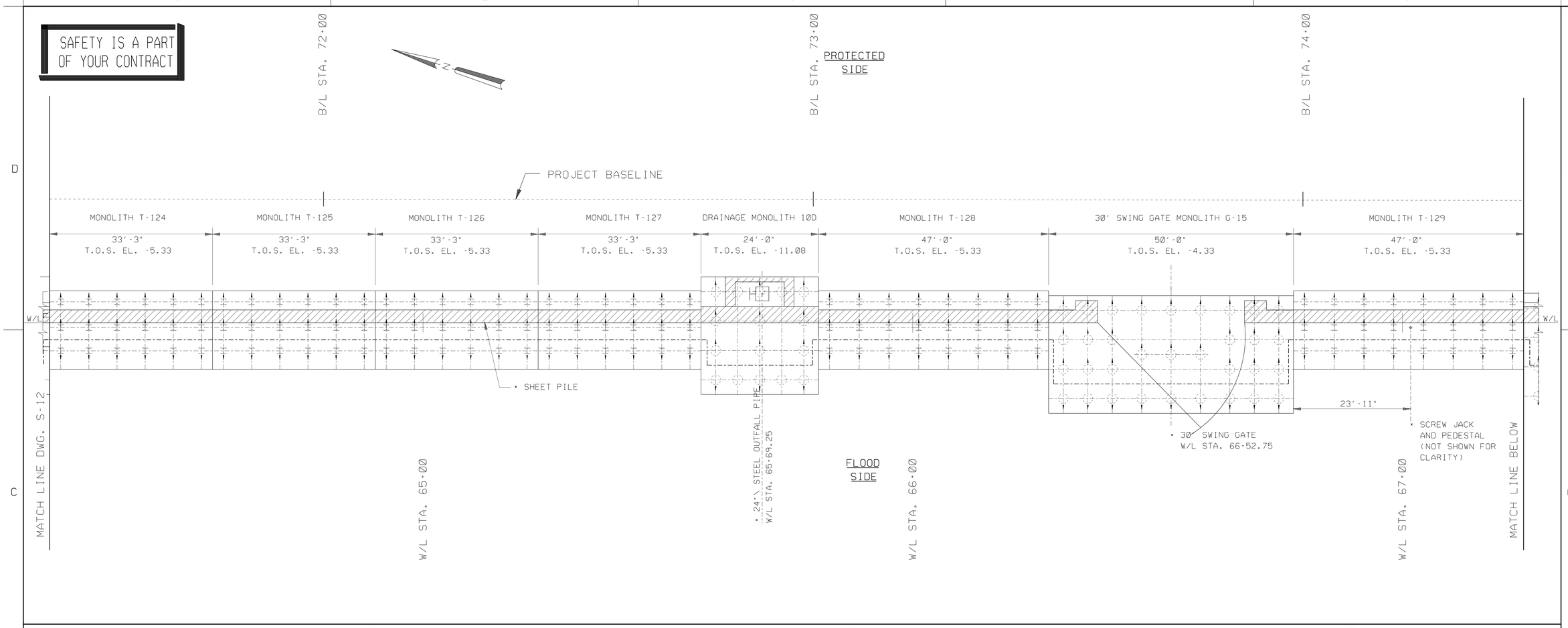
PLOT SCALE: 96
PLOT DATE: X

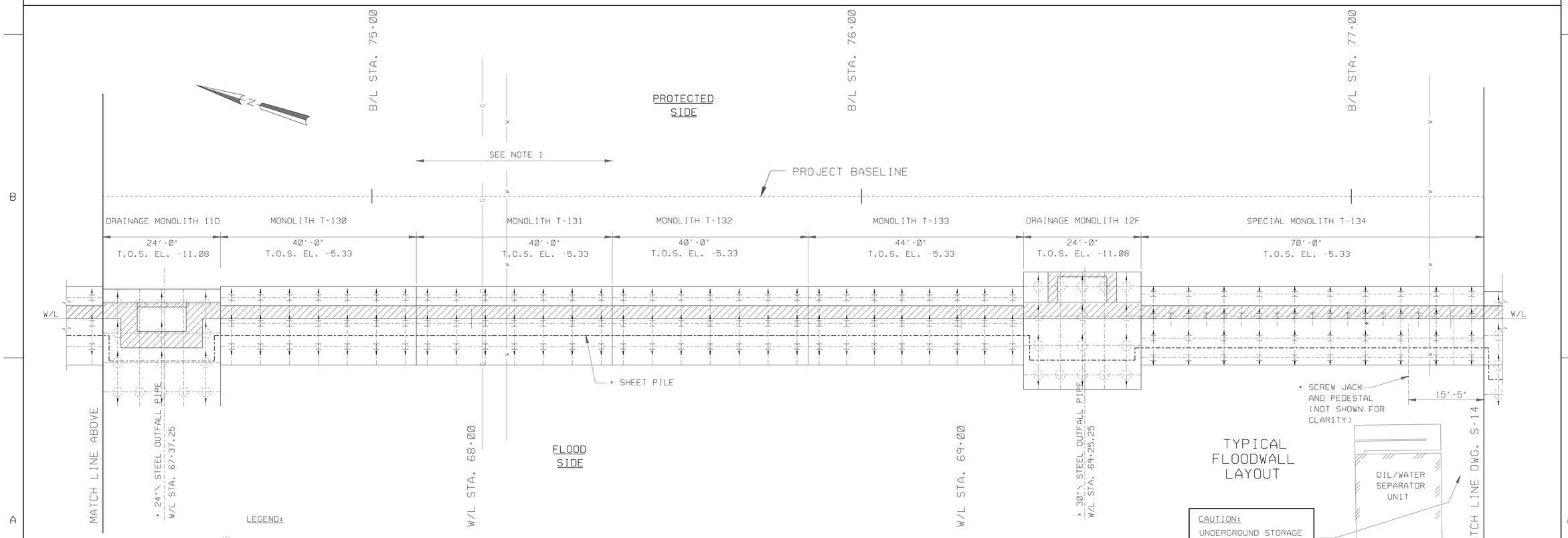
DESIGN FILE NAME: ECH-S12.DGN
SUBMITTED BY: DESIGN ENGINEER
SOLICITATION NO. W912P8-06-R-0183

FILE NUMBER H-4-45982

DWG. S-12 OF X

SAFETY IS A PART OF YOUR CONTRACT





LEGEND:

- 24" \ PIPE PILE, VERTICAL
- 24" \ STEEL PIPE PILE BATTERED IN DIRECTION OF ARROW. SEE "PILING SCHEDULE", DWG. S-20 FOR PILE BATTERS.
- HP 14X73, VERTICAL
- HP 14X73 BATTERED IN DIRECTION OF ARROW, BATTERS VARY. SEE MONOLITH PLANS.
- WALL STEM

NOTE:

PRIOR TO SUBMITTING PILE PLACEMENT PLAN FOR MONOLITHS T-134 AND T-135 AND GATE G-16, CONTRACTOR SHALL COORDINATE WITH WJLD AND OWNER TO DETERMINE DEPTH AND EXTENTS OF UNDERGROUND STORAGE TANKS AND OUTLET PIPE NEAR OIL/WATER SEPARATOR UNIT. CONTRACTOR SHALL VERIFY THAT TANKS DO NOT INTERFERE WITH PILE DRIVING AND SUBMIT THIS INFORMATION AS PART OF PILE PLACEMENT PLAN SUBMITTAL.

SCALE: 1/8" = 1'- 0"

0 5' 10' 15' 20' 25'

WJLD INCENTIVE CLAUSE YOUR KEY TO HIGHER PROFITS

US ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.
1	NEW DRAWING.				AMEND. 00021	9/26	S.J.N.

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

DESIGNED BY: X
CHECKED BY: X
DRAWN BY: R.G.L.
DATE: 8/14/2006

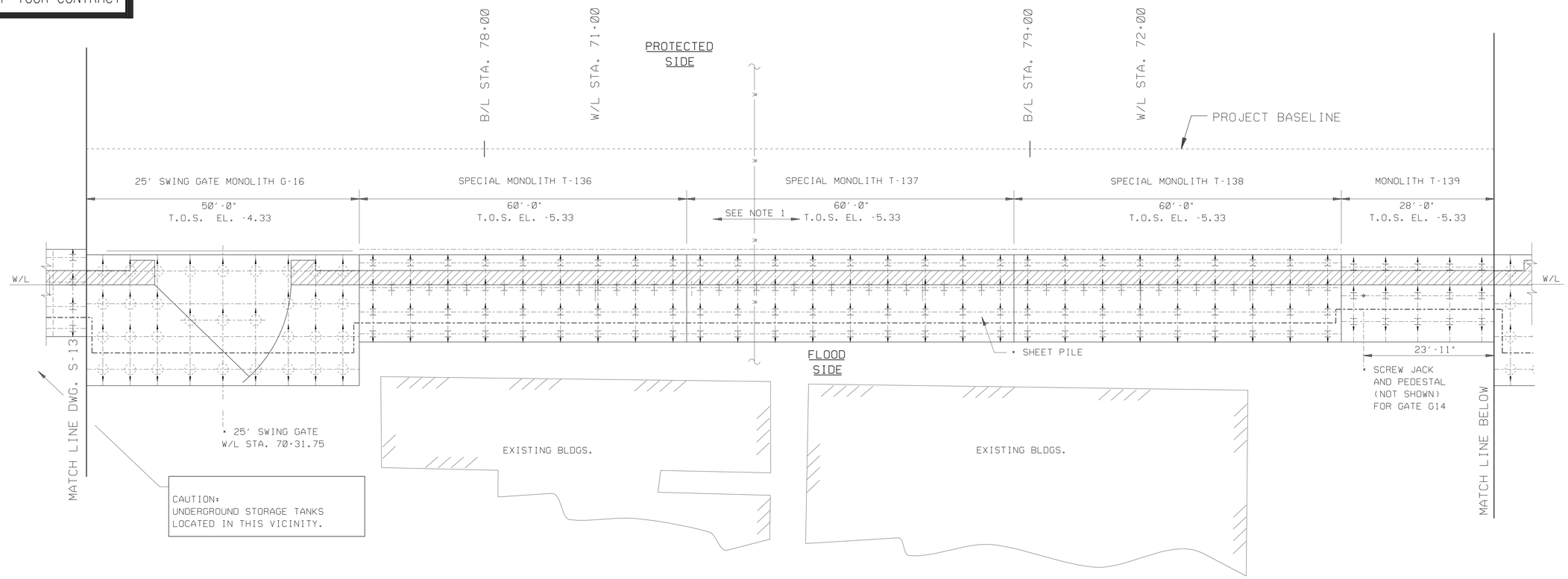
PLOT SCALE: %
PLOT DATE: 8/14/06

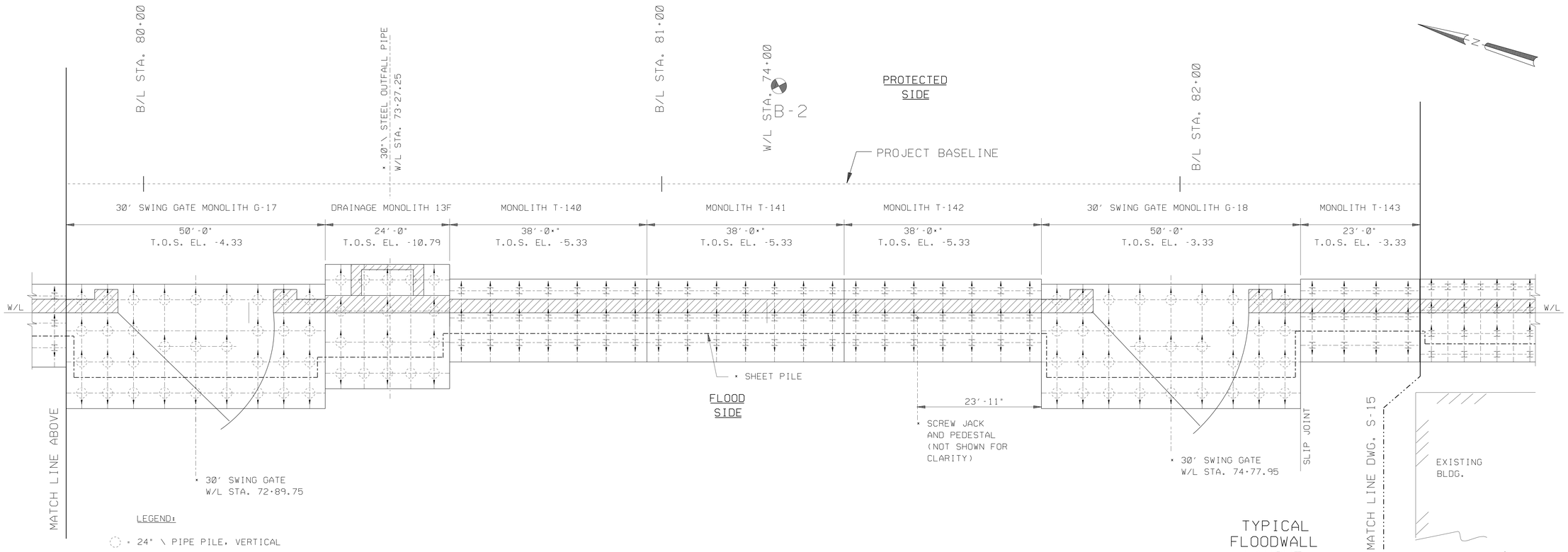
DESIGN FILE NAME: EDH-S13.DGN
SUBMITTED BY:
DESIGN ENGINEER:
SOLICITATION NO. W912P8-06-R-0183

FILE NUMBER H-4-45982

DWG. S-13 OF X

SAFETY IS A PART OF YOUR CONTRACT





TYPICAL FLOODWALL LAYOUT

LEGEND:

- ○ = 24" \ PIPE PILE, VERTICAL
- ○ = 24" \ STEEL PIPE PILE BATTERED IN DIRECTION OF ARROW. SEE "PILING SCHEDULE", DWG. S-20 FOR PILE BATTERS.
- H = HP 14X73, VERTICAL
- H = HP 14X73 BATTERED IN DIRECTION OF ARROW, BATTERS VARY. SEE MONOLITH PLANS.
- ▨ = WALL STEM

SCALE: 1/8" = 1'- 0"

0 5' 10' 15' 20' 25'

PLUS INCENTIVE CLAUSES ENGINEER — YOUR KEY TO HIGHER PROFITS

US ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT

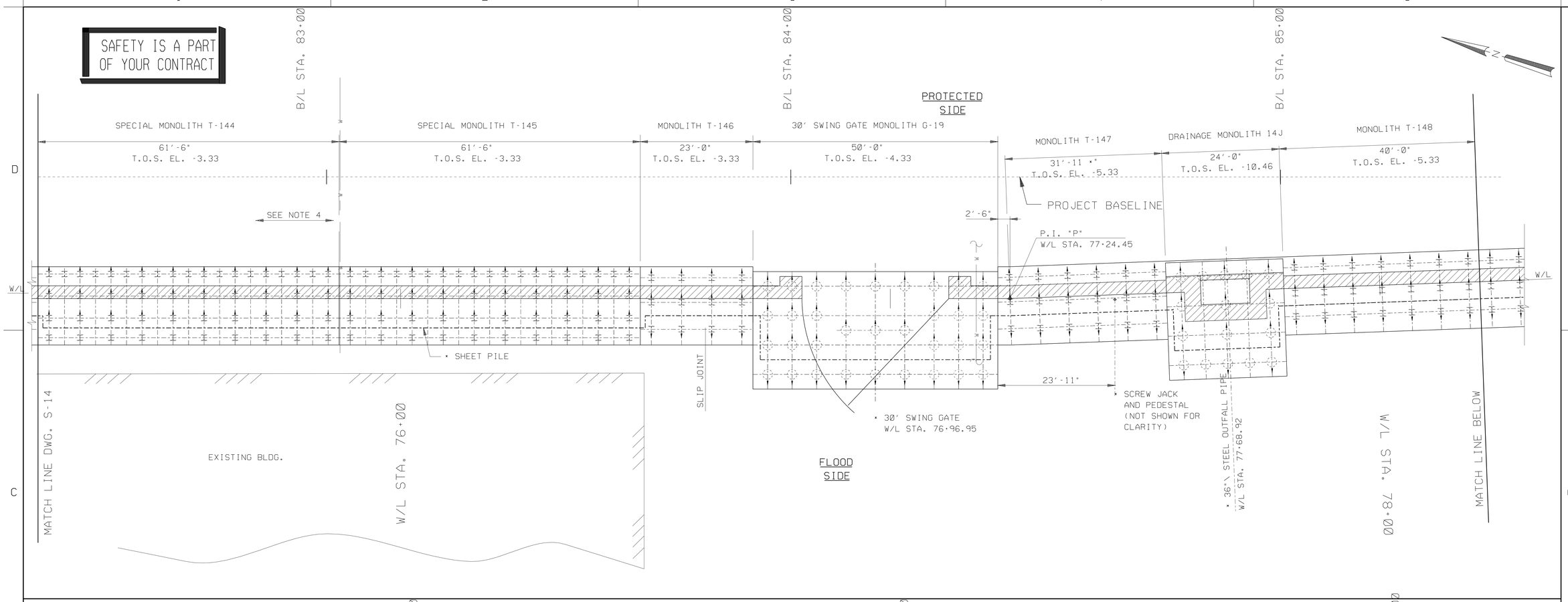
MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.
1	NEW DWG.			AMEND. * 0002	SM		

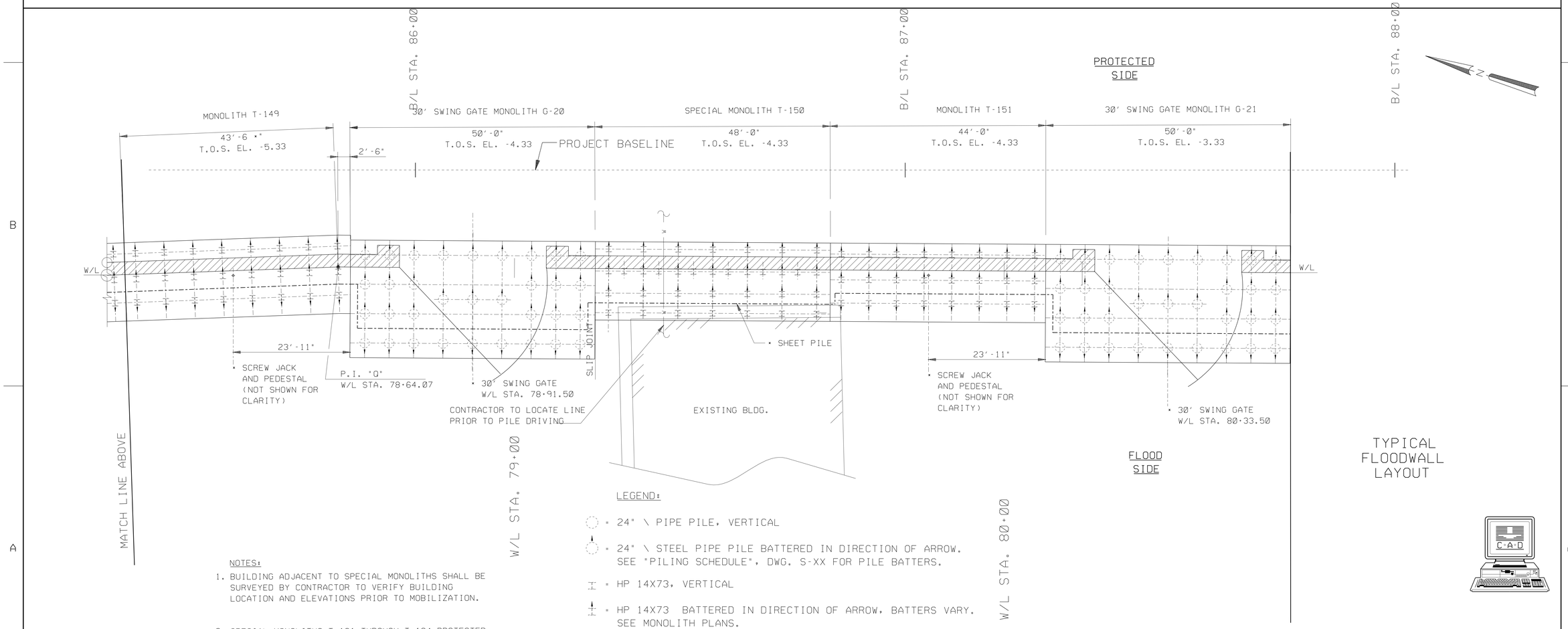
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

DESIGNED BY: X
CHECKED BY: X
DRAWN BY: R.G.L.
DATE: 8/14/2006
PLOT SCALE: 96
PLOT DATE: 8/14/06
DESIGN FILE NAME: EDM-S14.DGN
SUBMITTED BY:
DESIGN ENGINEER
SOLICITATION NO. W912P8-06-R-0183

FILE NUMBER S-14
H-4-45982
DWG. S-14 OF X

SAFETY IS A PART OF YOUR CONTRACT





TYPICAL FLOODWALL LAYOUT

LEGEND:

- ○ = 24" \ PIPE PILE, VERTICAL
- ○ = 24" \ STEEL PIPE PILE BATTERED IN DIRECTION OF ARROW. SEE "PILING SCHEDULE", DWG. S-XX FOR PILE BATTERS.
- H = HP 14X73, VERTICAL
- H = HP 14X73 BATTERED IN DIRECTION OF ARROW, BATTERS VARY. SEE MONOLITH PLANS.
- ▨ = WALL STEM

NOTES:

1. BUILDING ADJACENT TO SPECIAL MONOLITHS SHALL BE SURVEYED BY CONTRACTOR TO VERIFY BUILDING LOCATION AND ELEVATIONS PRIOR TO MOBILIZATION.
2. SPECIAL MONOLITHS T-121 THROUGH T-124 PROTECTED SIDE PILES SHALL BE DRIVEN IN SEGMENTS AND FIELD SPLICED AS NECESSARY TO AVOID CONFLICTS WITH ADJACENT BUILDING DURING PILE DRIVING OPERATIONS.

SCALE: 1/8" = 1'- 0"

0 5' 10' 15' 20' 25'

US ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT

MARK	NEW DRAWING.	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.
					AMEND. 0002	9/26	S.J.N.	

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

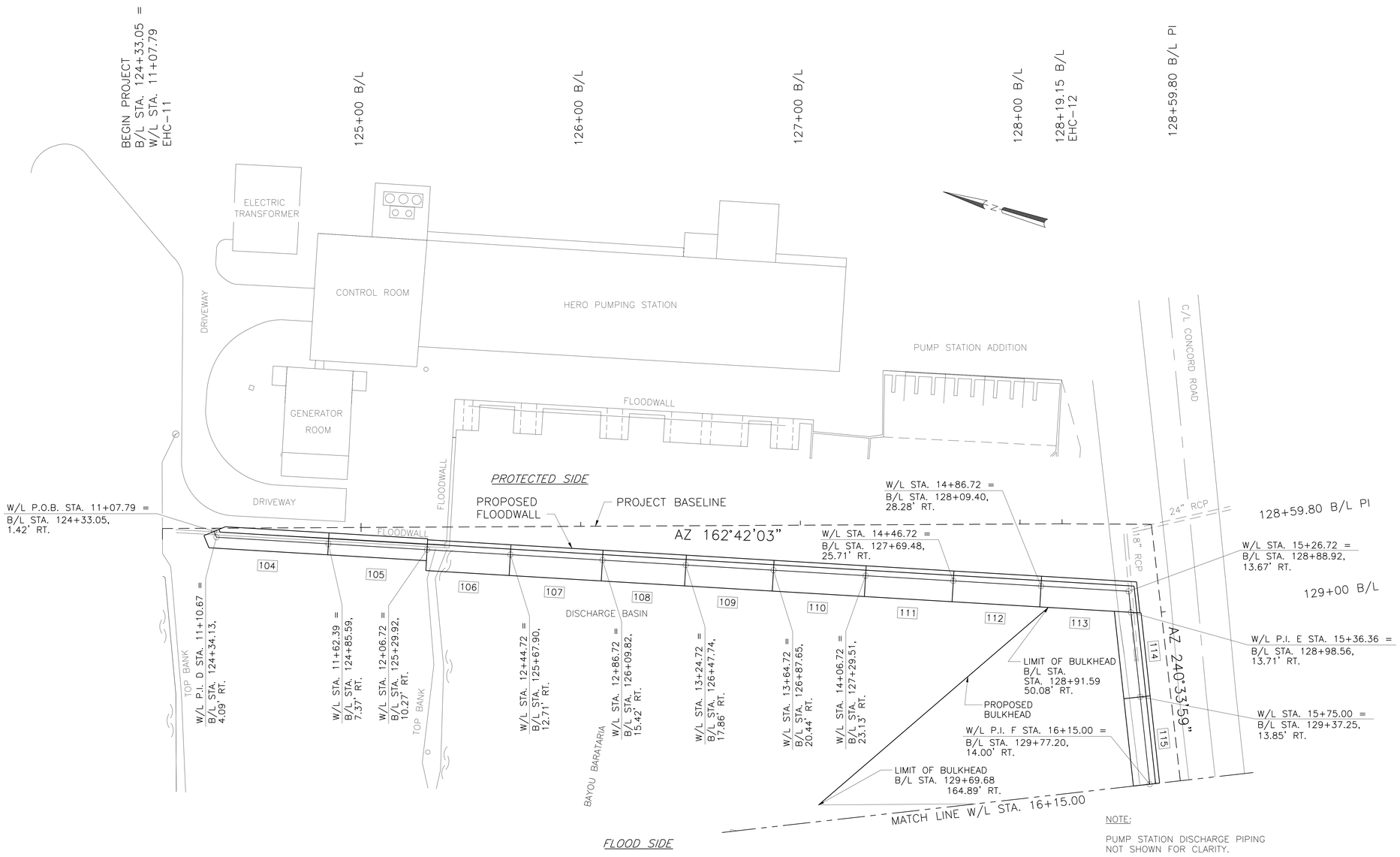
DESIGNED BY: X
CHECKED BY: X
DRAWN BY: X
DATE: X

PLOT SCALE: 96
PLOT DATE: X8/14/06
DESIGN FILE NAME: ECH-S15.DGN
SUBMITTED BY: DESIGN ENGINEER
SOLICITATION NO. W912P8-06-R-0183

FILE NUMBER H-4-45982

DWG. S-15 OF X

Safety is a Part of Your Contract



NOTE:

PUMP STATION DISCHARGE PIPING NOT SHOWN FOR CLARITY.

LEGEND

105	MONOLITH NUMBER
B-1	SOIL BORING

TYPICAL FLOODWALL LAYOUT

SCALE: 1" = 20'

20' 0 20' 40' 60' 80'

VALUE INCENTIVE CLAUSES ENGINEERING — YOUR KEY TO HIGHER PROFITS

US Army Corps of Engineers New Orleans District

MARK	DESCRIPTION	DATE	APPR.
1	NEW DWG.		

AMEND. # 002 9/19/06 S.M.

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

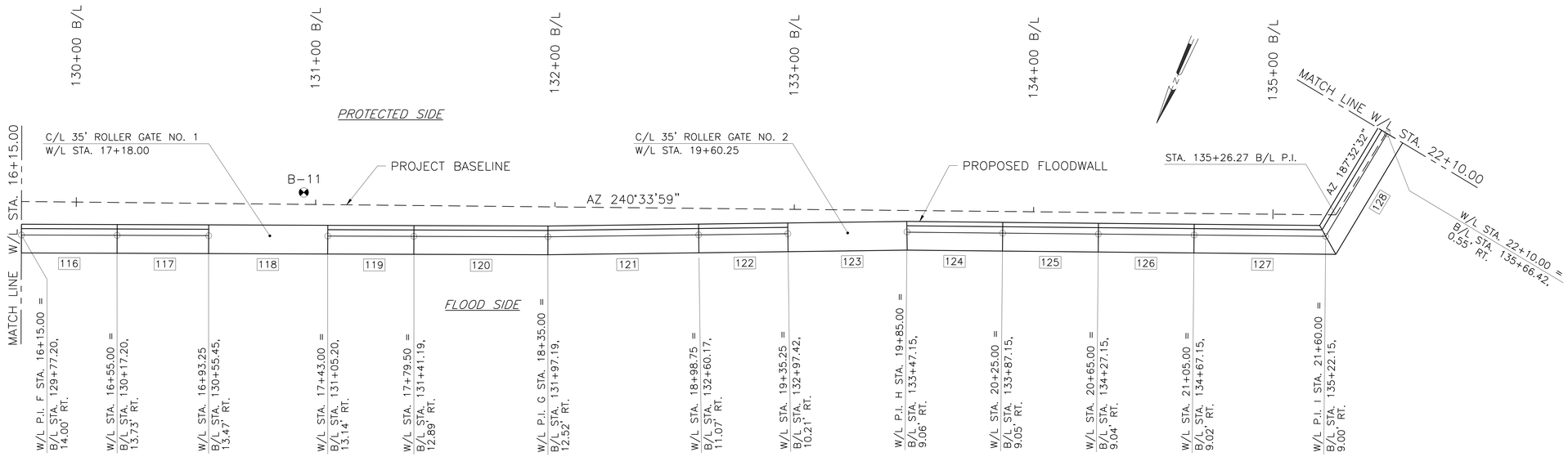
DESIGNED BY: X
CHECKED BY: X
DRAWN BY: X
DATE: X

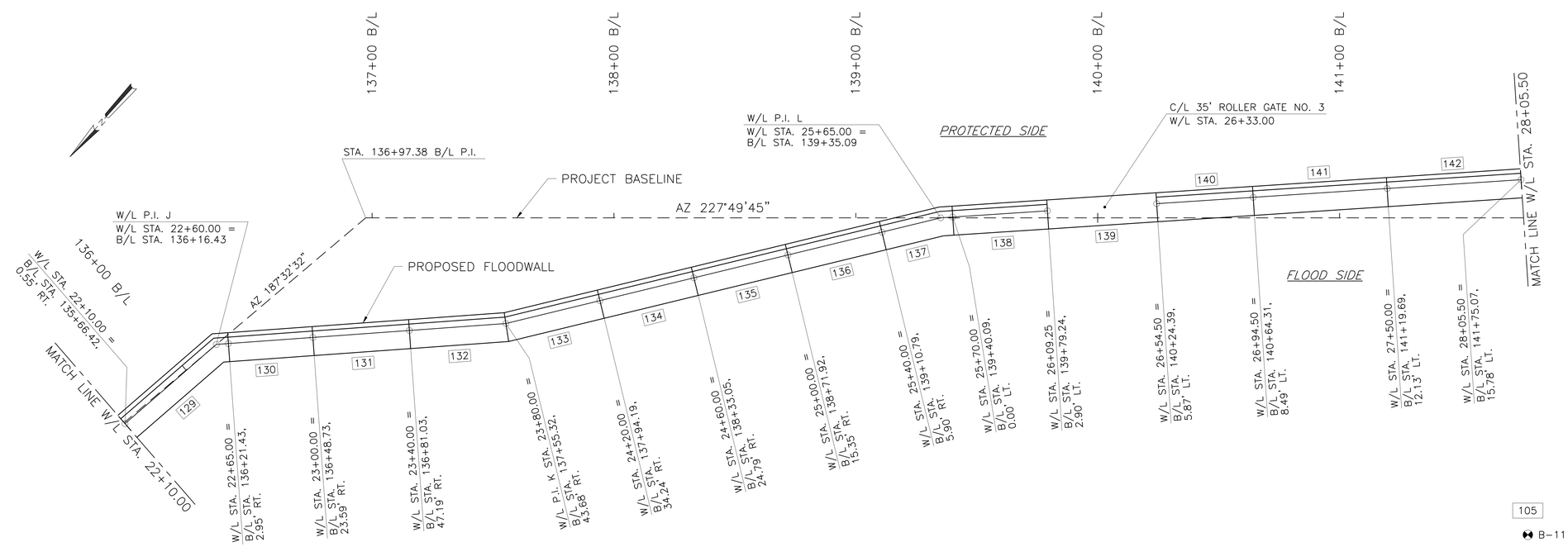
PLOT SCALE: 1=20
PLOT DATE: X
DESIGN ENGINEER: X
DESIGN FILE NAME: 45891202.dgn
SOLICITATION NO.: W912P8-06-R-0183

FILE NUMBER H-4-45891

DWG.S-16OF X

Safety is a Part of Your Contract





LEGEND

105	MONOLITH NUMBER
B-11	SOIL BORING

TYPICAL FLOODWALL LAYOUT

SCALE: 1" = 20'

20' 0 20' 40' 60' 80'

US Army Corps of Engineers New Orleans District

MARK	DESCRIPTION	DATE	APPR.
1	NEW DWG.		

AMEND. # 0002 9/19/08 S.M.

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

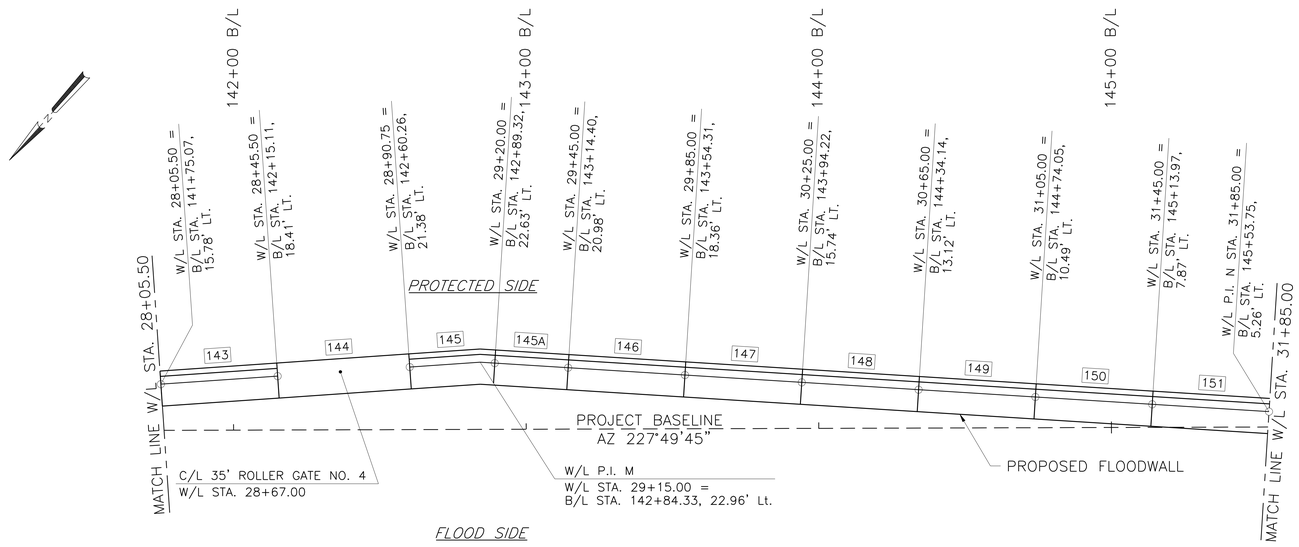
DESIGN FILE NAME: 45891203.dgn
SOLICITATION NO.: W912P8-06-R-0183
SUBMITTED BY: X DESIGN ENGINEER
PLOT DATE: X
PLOT SCALE: 1=20
DESIGNED BY: X
CHECKED BY: X
DRAWN BY: X
DATE: X

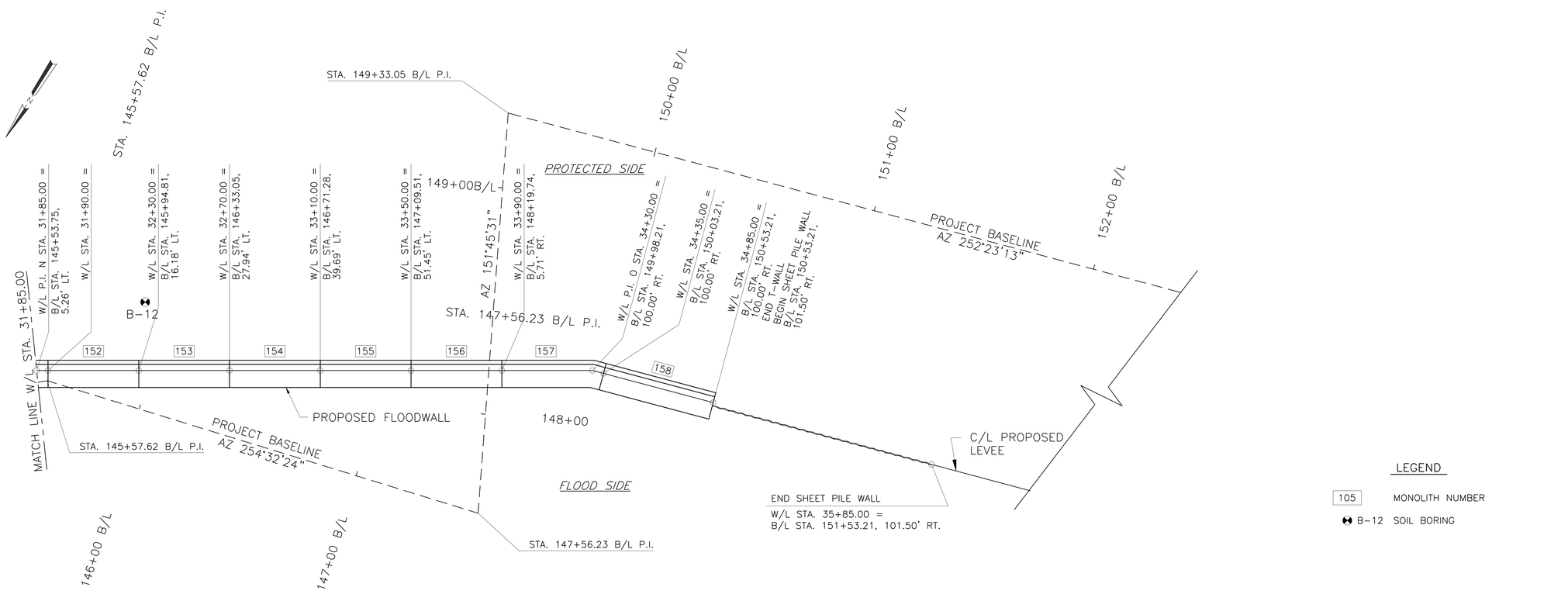
FILE NUMBER H-4-45891

DWG.S-170F X

VALUE INCENTIVE CLAUSES ENGINEERING YOUR KEY TO HIGHER PROFITS

Safety is a Part of Your Contract





LEGEND

105	MONOLITH NUMBER
B-12	SOIL BORING

TYPICAL FLOODWALL LAYOUT

SCALE: 1" = 20'

20' 0 20' 40' 60' 80'

VALUE ENGINEERING INCENTIVE CLAUSES YOUR KEY TO HIGHER PROFITS

US Army Corps of Engineers New Orleans District

MARK	DESCRIPTION	DATE	APPR.
1	NEW DWG.		

AMEND. # 0002 9/19/06 S.M

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

DESIGN FILE NAME: 45891204.dgn
SOLICITATION NO. W912P8-06-R-0183
SUBMITTED BY: X DESIGN ENGINEER
PLOT DATE: X
PLOT SCALE: 1=20
DESIGNED BY: X
CHECKED BY: X
DRAWN BY: X
DATE: X

FILE NUMBER H-4-45891

DWG.S-18OF X

PILE SCHEDULE (MONOLITHS)							
MONOLITH NOS.	PILE SIZE	NUMBER OF PILES	PILE BATTER	PILE TIP ELEVATION	PAYMENT LENGTH (PER PILE)		TOTAL LENGTH (PER MONOLITH)
					FLOOD SIDE	PROTECTED SIDE	
104	16"x16" CONC.	12	1H:2.5V	(–)106.00	108'		1296.00'
		11	1H:2.5V	(–)106.00		108'	1188.00'
105	16"x16" CONC.	10	1H:3V	(–)106.00	105.7'		1057.00'
		10	1H:3V	(–)106.00		105.7'	1057.00'
106	HP14X73 STEEL	14	1H:2V	(–)135.00	138.30'		1936.20'
		14	1H:2V	(–)135.00		138.30'	1936.20'
107	HP14X73 STEEL	14	1H:2V	(–)135.00	138.30'		1936.20'
		14	1H:2V	(–)135.00		138.30'	1936.20'
108	HP14X73 STEEL	14	1H:2V	(–)135.00	138.30'		1936.20'
		14	1H:2V	(–)135.00		138.30'	1936.20'
109	HP14X73 STEEL	14	1H:2V	(–)135.00	138.30'		1936.20'
		14	1H:2V	(–)135.00		138.30'	1936.20'
110	HP14X73 STEEL	14	1H:2V	(–)135.00	138.30'		1936.20'
		14	1H:2V	(–)135.00		138.30'	1936.20'
111	HP14X73 STEEL	14	1H:2V	(–)135.00	138.30'		1936.20'
		14	1H:2V	(–)135.00		138.30'	1936.20'
112	HP14X73 STEEL	14	1H:2V	(–)135.00	138.30'		1936.20'
		14	1H:2V	(–)135.00		138.30'	1936.20'
113	HP14X73 STEEL	8	1H:6V	(–)135.00	125.40'		1003.20'
		6	1H:3V	(–)135.00	130.40'		782.40'
		12	1H:4V	(–)135.00		127.50'	1530.00'
		3	1H:3V	(–)135.00		130.40'	391.20'
114	16"x16" CONC.	8	1H:2V	(–)70.00	78.00'		624.00'
		8	1H:2V	(–)70.00		78.00'	624.00'
115	16"x16" CONC.	9	1H:2V	(–)70.00	78.00'		702.00'
		9	1H:2V	(–)70.00		78.00'	702.00'
116	16"x16" CONC.	9	1H:2V	(–)70.00	78.00'		702.00'
		9	1H:2V	(–)70.00		78.00'	702.00'
117	16"x16" CONC.	8	1H:2V	(–)70.00	78.00'		624.00'
		8	1H:2V	(–)70.00		78.00'	624.00'

PILE TIP ELEVATIONS ARE FOR BIDDING PURPOSES ONLY.
PILE LENGTHS COULD VARY 10–20%.
ACTUAL TIP ELEVATIONS WILL BE BASED ON PILE LOAD TEST RESULTS.

PILE SCHEDULE (MONOLITHS)

MONOLITH NOS.	PILE SIZE	NUMBER OF PILES	PILE BATTER	PILE TIP ELEVATION	PAYMENT LENGTH (PER PILE)		TOTAL LENGTH (PER MONOLITH)
					FLOOD SIDE	PROTECTED SIDE	
118	16"x16" CONC.	7	1H:2V	(−)85.00	91.40'		639.80'
		7	1H:2V	(−)85.00		91.40'	639.80'
		7	1H:2V	(−)85.00		91.40'	639.80'
119	16"x16" CONC.	6	1H:2V	(−)85.00	91.40'		548.40'
		6	1H:2V	(−)85.00		91.40'	548.40'
120	16"x16" CONC.	11	1H:2V	(−)70.00	78.00'		858.00'
		11	1H:2V	(−)70.00		78.00'	858.00'
121	16"x16" CONC.	12	1H:2V	(−)70.00	78.00'		936.00'
		12	1H:2V	(−)70.00		78.00'	936.0'
122	16"x16" CONC.	6	1H:2V	(−)85.00	91.40'		548.40'
		6	1H:2V	(−)85.00		91.40'	548.40'
123	16"x16" CONC.	7	1H:2V	(−)85.00	91.40'		548.40'
		7	1H:2V	(−)85.00		91.40'	548.40'
		7	1H:2V	(−)85.00		91.40'	548.40'
124	16"x16" CONC.	9	1H:2V	(−)70.00	78.00'		702.00'
		9	1H:2V	(−)70.00		78.00'	702.00'
125	16"x16" CONC.	9	1H:2V	(−)70.00	78.00'		702.00'
		9	1H:2V	(−)70.00		78.00'	702.00'
126	16"x16" CONC.	9	1H:2V	(−)70.00	78.00'		702.00'
		9	1H:2V	(−)70.00		78.00'	702.00'
127	16"x16" CONC.	11	1H:2V	(−)70.00	78.00'		858.00'
		11	1H:2V	(−)70.00		78.00'	858.00'
128	16"x16" CONC.	10	1H:2V	(−)70.00	78.00'		780.00'
		10	1H:2V	(−)70.00		78.00'	780.00'
129	16"x16" CONC.	12	1H:2.5V	(−)70.00	75.10'		901.20'
		12	1H:2V	(−)70.00		78.00'	936.00'
130	16"x16" CONC.	8	1H:3V	(−)65.00	65.70'		525.60'
		8	1H:3V	(−)65.00		65.70'	525.60'
131	16"x16" CONC.	9	1H:3V	(−)65.00	65.70'		591.30'
		9	1H:3V	(−)65.00		65.70'	591.30'
132	16"x16" CONC.	9	1H:3V	(−)65.00	65.70'		591.30'
		9	1H:3V	(−)65.00		65.70'	591.30'
133	16"x16" CONC.	9	1H:2V	(−)65.00	69.60'		626.40'
		9	1H:2V	(−)65.00		69.60'	626.40'
134	16"x16" CONC.	9	1H:3V	(−)65.00	65.70'		591.30'
		9	1H:3V	(−)65.00		65.70'	591.30'

PILE TIP ELEVATIONS ARE FOR BIDDING PURPOSES ONLY.
PILE LENGTHS COULD VARY 10−20%.
ACTUAL TIP ELEVATIONS WILL BE BASED ON PILE LOAD TEST RESULTS.

PILE SCHEDULE (MONOLITHS)							
MONOLITH NOS.	PILE SIZE	NUMBER OF PILES	PILE BATTER	PILE TIP ELEVATION	PAYMENT LENGTH (PER PILE)		TOTAL LENGTH (PER MONOLITH)
					FLOOD SIDE	PROTECTED SIDE	
135	16"x16" CONC.	9	1H:3V	(−)65.00	65.70'		591.30'
		9	1H:3V	(−)65.00		65.70'	591.30'
136	16"x16" CONC.	9	1H:3V	(−)65.00	65.70'		591.30'
		9	1H:3V	(−)65.00		65.70'	591.30'
137	16"x16" CONC.	5	1H:2V	(−)65.00	69.60'		348.00'
		5	1H:2V	(−)65.00		69.60'	348.00'
	16"x16" CONC.	1	1H:3V	(−)65.00	65.70'		65.70'
		1	1H:3V	(−)65.00		65.70'	65.70'
138	16"x16" CONC.	9	1H:3V	(−)65.00	65.70'		591.30'
		9	1H:3V	(−)65.00		65.70'	591.30'
139	16"x16" CONC.	8	1H:2V	(−)70.00	79.60'		636.80'
		8	1H:2V	(−)70.00		79.60'	636.80'
140	16"x16" CONC.	6	1H:2V	(−)70.00	79.60'		477.60'
		6	1H:2V	(−)70.00		79.60'	477.60'
141	16"x16" CONC.	12	1H:3V	(−)65.00	65.70'		788.40'
		12	1H:3V	(−)65.00		65.70'	788.40'
142	16"x16" CONC.	12	1H:3V	(−)65.00	65.70'		788.40'
		12	1H:3V	(−)65.00		65.70'	788.40'
143	16"x16" CONC.	6	1H:2V	(−)70.00	79.60'		477.60'
		6	1H:2V	(−)70.00		79.60'	477.60'
144	16"x16" CONC.	8	1H:2V	(−)70.00	79.60'		636.80'
		8	1H:2V	(−)70.00		79.60'	636.80'
145	16"x16" CONC.	6	1H:2V	(−)65.00	69.60'		417.60'
		6	1H:2V	(−)65.00		69.60'	417.60'
145A	16"x16" CONC.	6	1H:3V	(−)65.00	65.70'		394.20'
		6	1H:3V	(−)65.00		65.70'	394.20'
146	16"x16" CONC.	9	1H:3V	(−)65.00	65.70'		591.40'
		9	1H:3V	(−)65.00		65.70'	591.40'
147	16"x16" CONC.	9	1H:3V	(−)65.00	65.70'		591.40'
		9	1H:3V	(−)65.00		65.70'	591.40'

PILE TIP ELEVATIONS ARE FOR BIDDING PURPOSES ONLY.
PILE LENGTHS COULD VARY 10−20%.
ACTUAL TIP ELEVATIONS WILL BE BASED ON PILE LOAD TEST RESULTS.

PILE SCHEDULE (MONOLITHS)

MONOLITH NOS.	PILE SIZE	NUMBER OF PILES	PILE BATTER	PILE TIP ELEVATION	PAYMENT LENGTH (PER PILE)		TOTAL LENGTH (PER MONOLITH)
					FLOOD SIDE	PROTECTED SIDE	
148	16"x16" CONC.	9	1H:3V	(−)65.00	65.70'		591.40'
		9	1H:3V	(−)65.00		65.70'	591.40'
149	16"x16" CONC.	9	1H:3V	(−)65.00	65.70'		591.40'
		9	1H:3V	(−)65.00		65.70'	591.40'
150	16"x16" CONC.	9	1H:3V	(−)65.00	65.70'		591.40'
		9	1H:3V	(−)65.00		65.70'	591.40'
151	16"x16" CONC.	7	1H:3V	(−)65.00	65.70'		459.90'
		7	1H:3V	(−)65.00		65.70'	459.90'
	16"x16" CONC.	1	1H:2.5V	(−)65.00	58.40'		58.40'
		1	1H:2.5V	(−)65.00		58.40'	58.40'
152	16"x16" CONC.	9	1H:2V	(−)82.00	84.70'		762.30'
		9	1H:2V	(−)82.00		84.70'	762.30'
153	16"x16" CONC.	9	1H:2V	(−)82.00	84.70'		762.30'
		9	1H:2V	(−)82.00		84.70'	762.30'
154	16"x16" CONC.	9	1H:2V	(−)82.00	84.70'		762.30'
		9	1H:2V	(−)82.00		84.70'	762.30'
155	16"x16" CONC.	9	1H:2V	(−)82.00	84.70'		762.30'
		9	1H:2V	(−)82.00		84.70'	762.30'
156	16"x16" CONC.	9	1H:2V	(−)82.00	84.70'		762.30'
		9	1H:2V	(−)82.00		84.70'	762.30'
157	16"x16" CONC.	10	1H:2.5V	(−)88.00	88.00'		880.00'
		9	1H:2V	(−)88.00		91.40'	792.00'
		9	1H:2V	(−)88.00		91.40'	792.00'
158	16"x16" CONC.	11	1H:2V	(−)82.00	84.70'		931.70'
		11	1H:2V	(−)82.00		84.70'	931.70'
UTILITY CROSSING NO. 1	16"x16" CONC.	6	1H:2V	(−)75.00	82.20'		493.20'
		6	1H:2V	(−)75.00		82.20'	493.20'
UTILITY CROSSING NO. 2	16"x16" CONC.	7	1H:2V	(−)75.00	85.80'		600.60'
		7	1H:2V	(−)75.00		85.80'	600.60'
UTILITY CROSSING NO. 3	16"x16" CONC.	6	1H:2V	(−)75.00	82.20'		493.20'
		6	1H:2V	(−)75.00		82.20'	493.20'

PILE TIP ELEVATIONS ARE FOR BIDDING PURPOSES ONLY.
PILE LENGTHS COULD VARY 10−20%.
ACTUAL TIP ELEVATIONS WILL BE BASED ON PILE LOAD TEST RESULTS.

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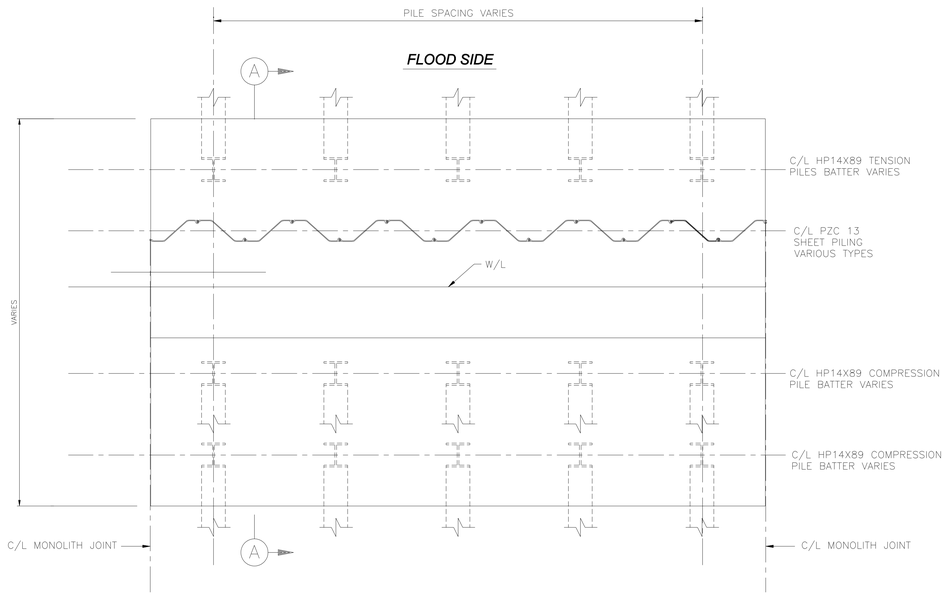
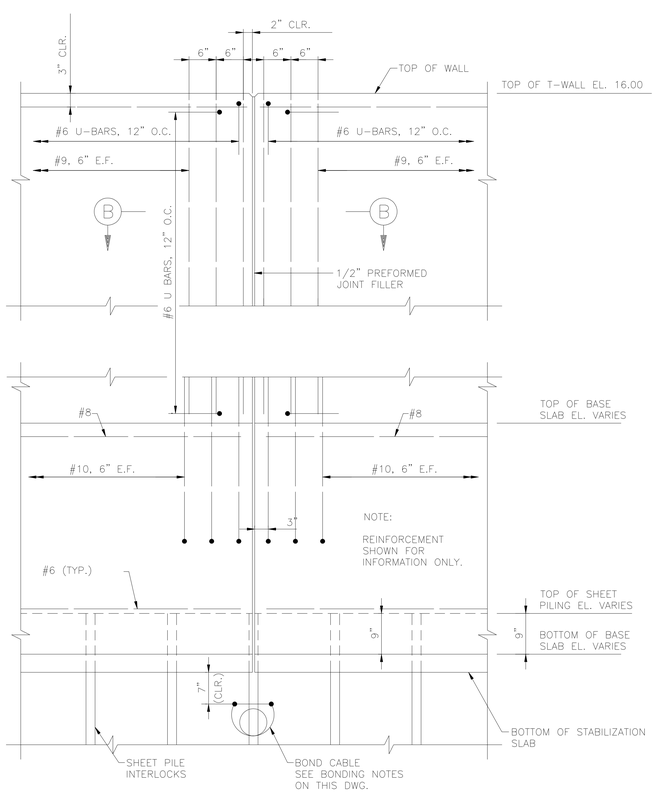


TYPICAL T-WALL MONOLITH PLAN

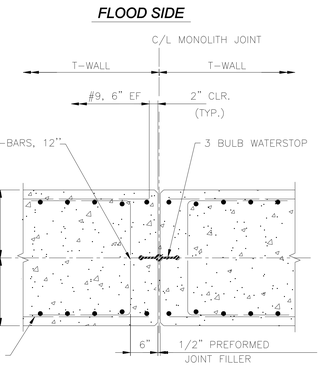
SCALE: 3/8" = 1'-0"



FLOOD SIDE ELEVATION

DETAIL OF T-WALL MONOLITH EXPANSION JOINTS

SCALE: 1" = 1'-0"



SECTION B

TYPICAL REINFORCEMENT AT MONOLITH EXPANSION JOINTS

SCALE: 1" = 1'-0"

BONDING NOTES:

1. #6 REINFORCING BAR TO BE WELDED TO THE TOP OF EACH STEEL SHEET PILE. #6 REINFORCING BAR SHALL NOT EXTEND ACROSS THE MONOLITH EXPANSION JOINT.
2. BOND CABLE SHALL HAVE AN 8" DIA. LOOP TO ALLOW FOR STREESES. BOND CABLES SHALL BE WELDED AS SPECIFIED TO ADJACENT STEEL PILES 7" BELOW BOTTOM OF CONCRETE.
3. WELDED CONNECTIONS SHALL BE COATED WITH SPLICING EPOXY TO OBTAIN MOISTURE PROOF JOINT. SEE SPECIFICATIONS.
4. SPLICING OF #6 REINFORCING BAR WILL NOT BE ALLOWED.

SCALE: 3/8" = 1'-0"

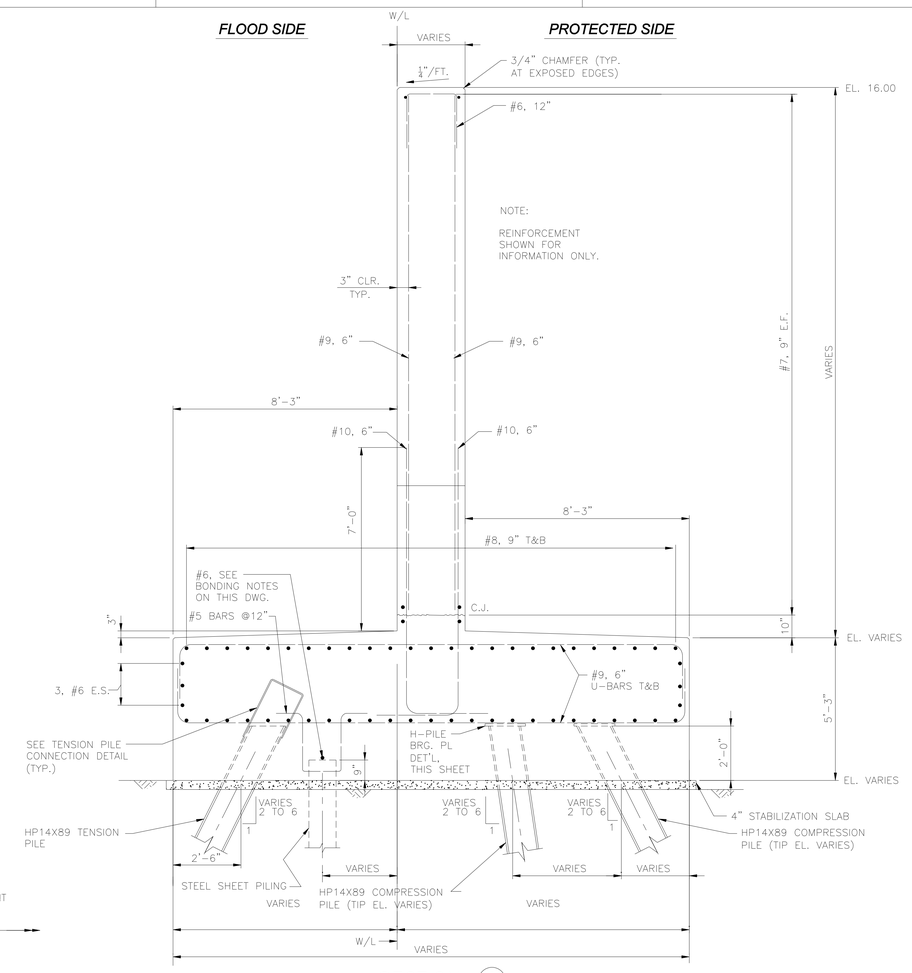
12" 0 2' 4' 6' 8' 10'

SCALE: 1/2" = 1'-0"

12" 0 2' 4' 6' 8' 10'

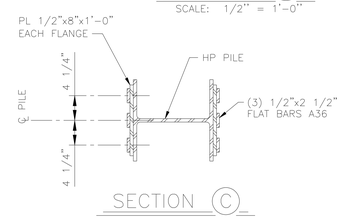
SCALE: 1" = 1'-0"

12" 0 1' 2' 3' 4' 5'



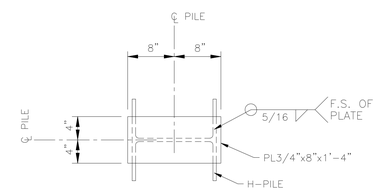
SECTION A

SCALE: 1/2" = 1'-0"



SECTION C

N.T.S.

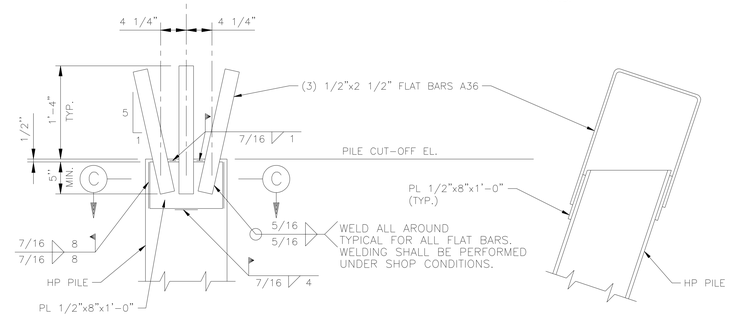


NOTE: TYPICAL AT ALL COMPRESSION PILES.

PLAN

H-PILE BEARING PLATE DETAIL

N.T.S.



FLANGE ELEVATION

WEB ELEVATION

TENSION PILE CONNECTION

N.T.S.

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US Army Corps of Engineers New Orleans District

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

SOLICITATION NO. W912P8-06-R-0183
SUBMITTED BY: DESIGN ENGINEER
DESIGN FILE NAME:
PLOT DATE:
PLOT SCALE: 1
DESIGNED BY: X
CHECKED BY: X
DRAWN BY: X
DATE: X

FILE NUMBER

DWG. S-19 OF

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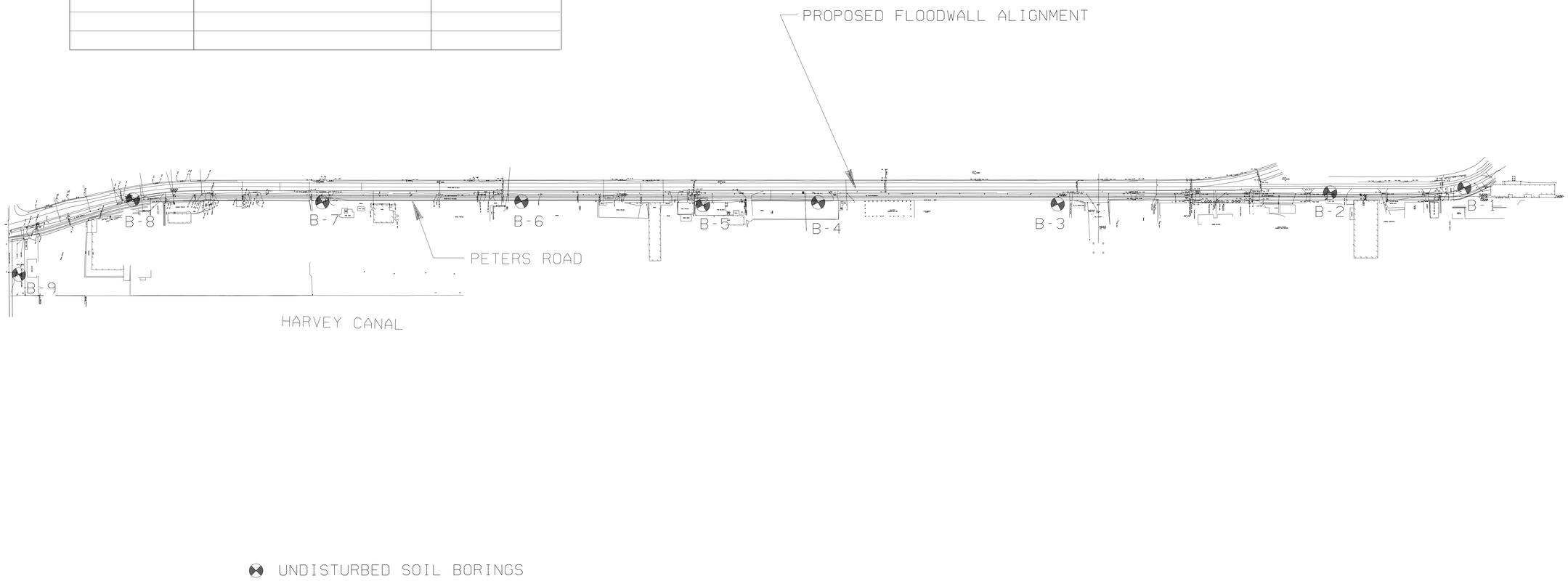
BORING	COORDINATES		ELEVATION
NUMBER	NORTHING	EASTING	(N.A.V.D.)
B-1	493,777.2	3,684,270.2	-4.42
B-2	494,437.7	3,684,033.6	-6.00
B-3	495,776.8	3,683,544.5	-2.00
B-4	496,972.6	3,683,172.8	-1.50
B-5	497,541.2	3,682,976.4	-1.77
B-6	498,452.1	3,682,706.9	-1.61
B-7	499,442.8	3,682,388.2	+0.80
B-8	500,390.3	3,682,101.2	-7.02
B-9	500,839.2	3,681,547.0	-0.77
B-10	NOT USED		
B-11	488,208.7	3,685,437.3	-1.17
B-12	487,246.6	3,684,388.2	-2.92



US ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.
1	NEW DWG.		
	AMEND. # 0002	9/19/06	SM

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

DESIGNED BY: C.M.P.
CHECKED BY: G.P.S.
DRAWN BY: D.C.L.
DATE: 4/27/2004

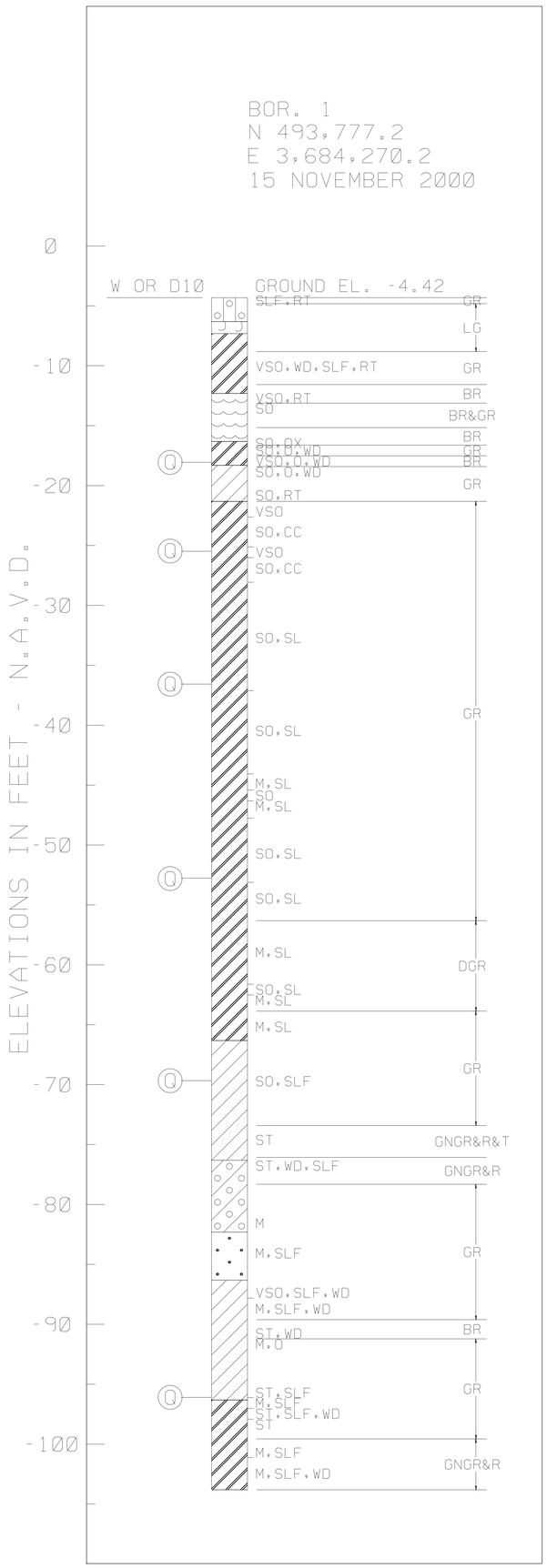
PLOT SCALE:
PLOT DATE:

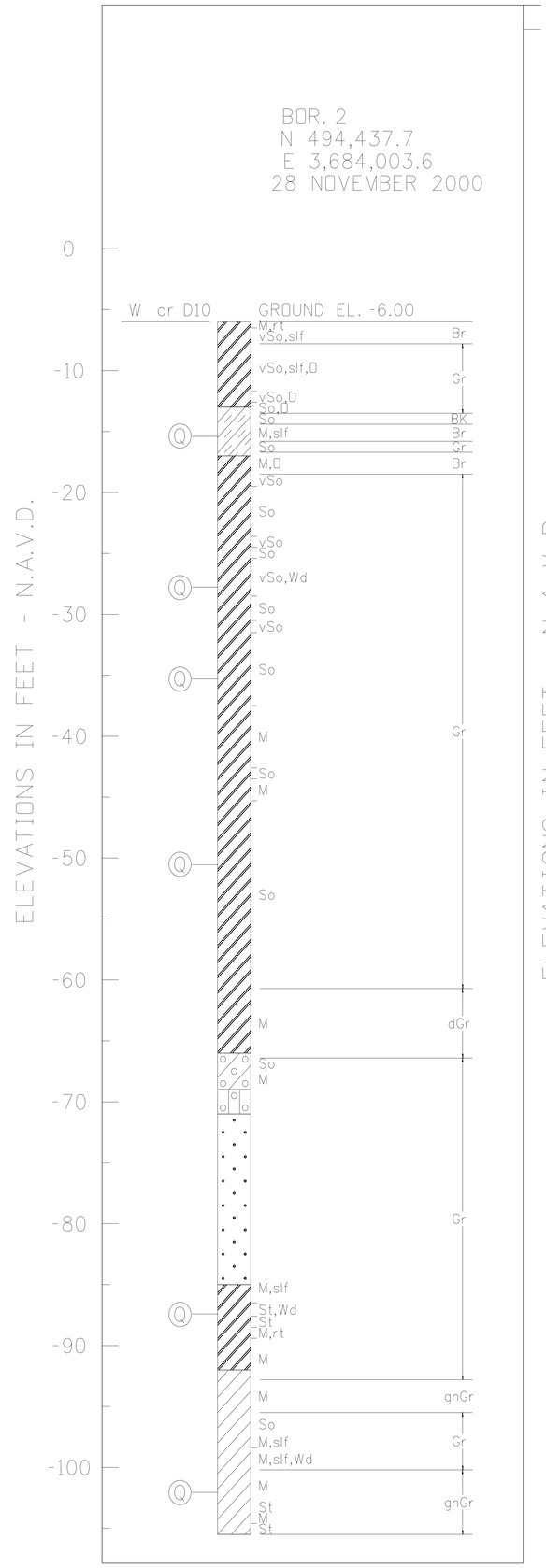
DESIGN FILE NAME: P-GD-2.DGN
SUBMITTED BY: OWEN P. SANDERS, P.E.
DESIGN ENGINEER
SOLICITATION NO. W912P8-06-R-0183

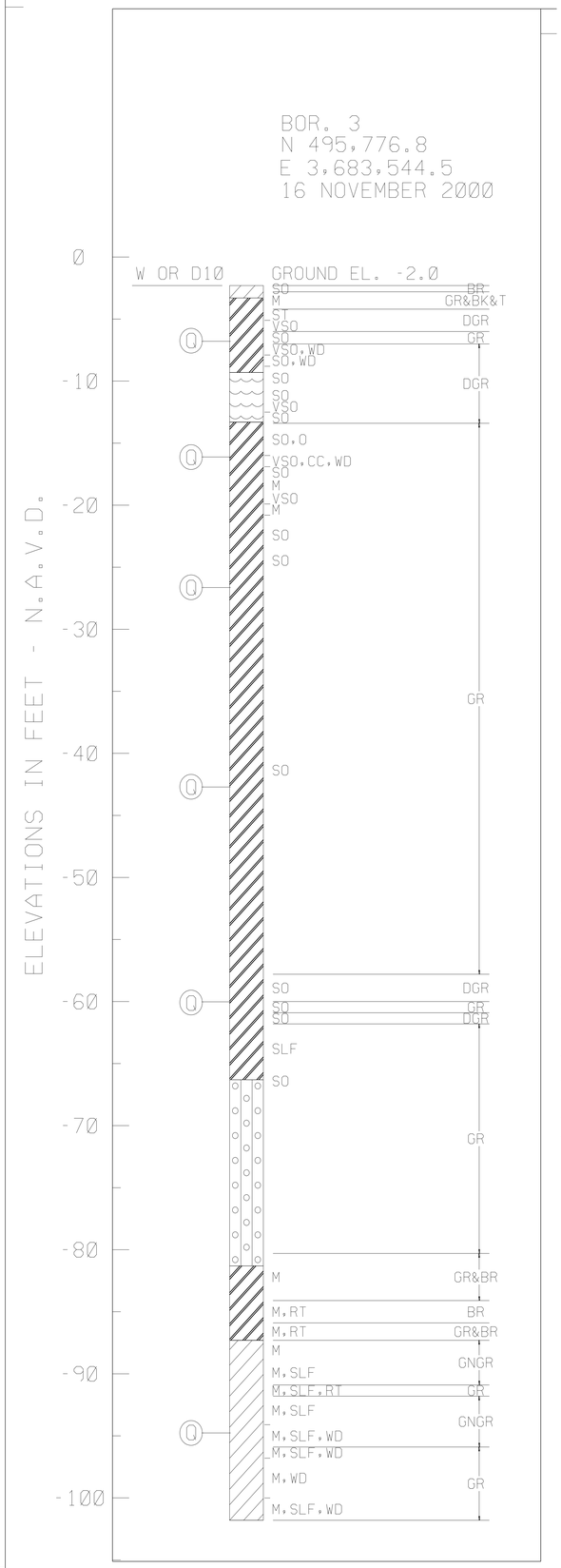
FILE NUMBER H-4-45982

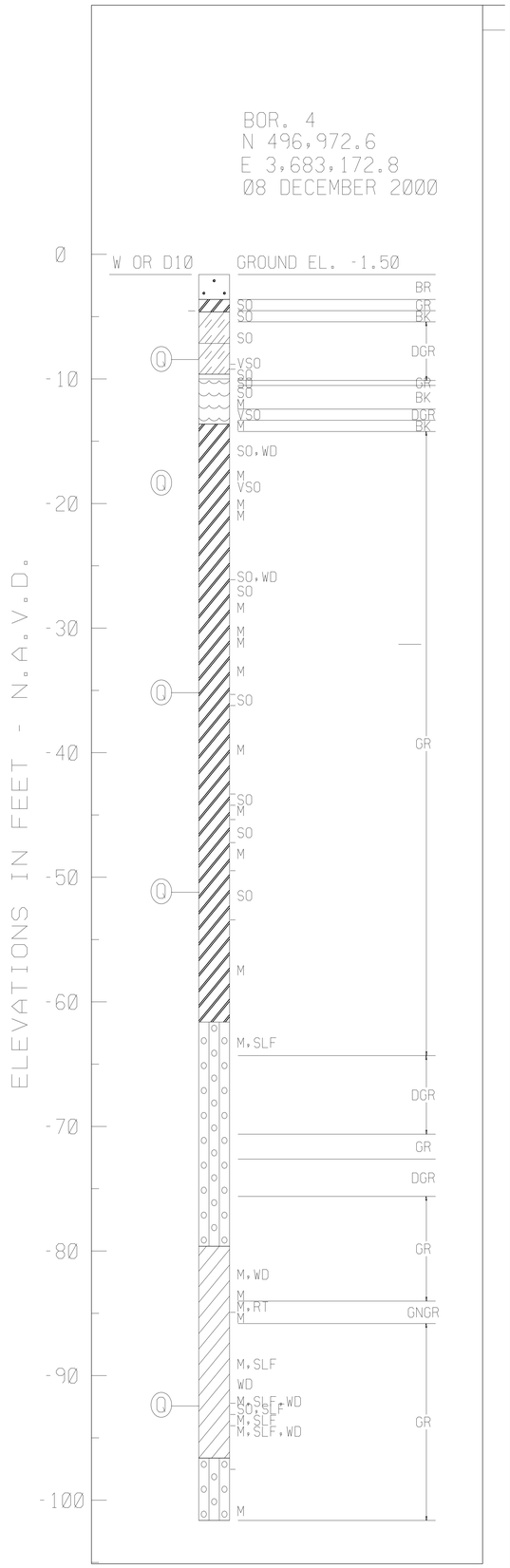
DWG. G-01 OF X

SAFETY IS A PART OF YOUR CONTRACT









US ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.
1	NEW DWG.		
	AMEND. #0002	9/19/08	SM

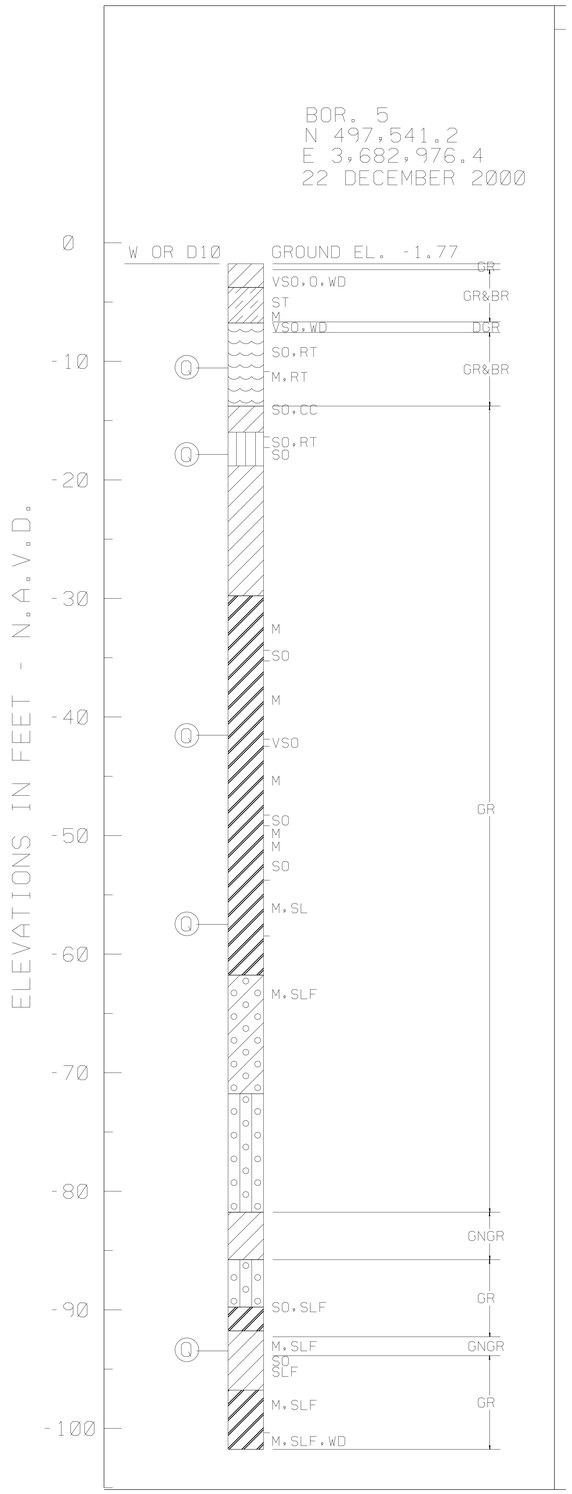
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

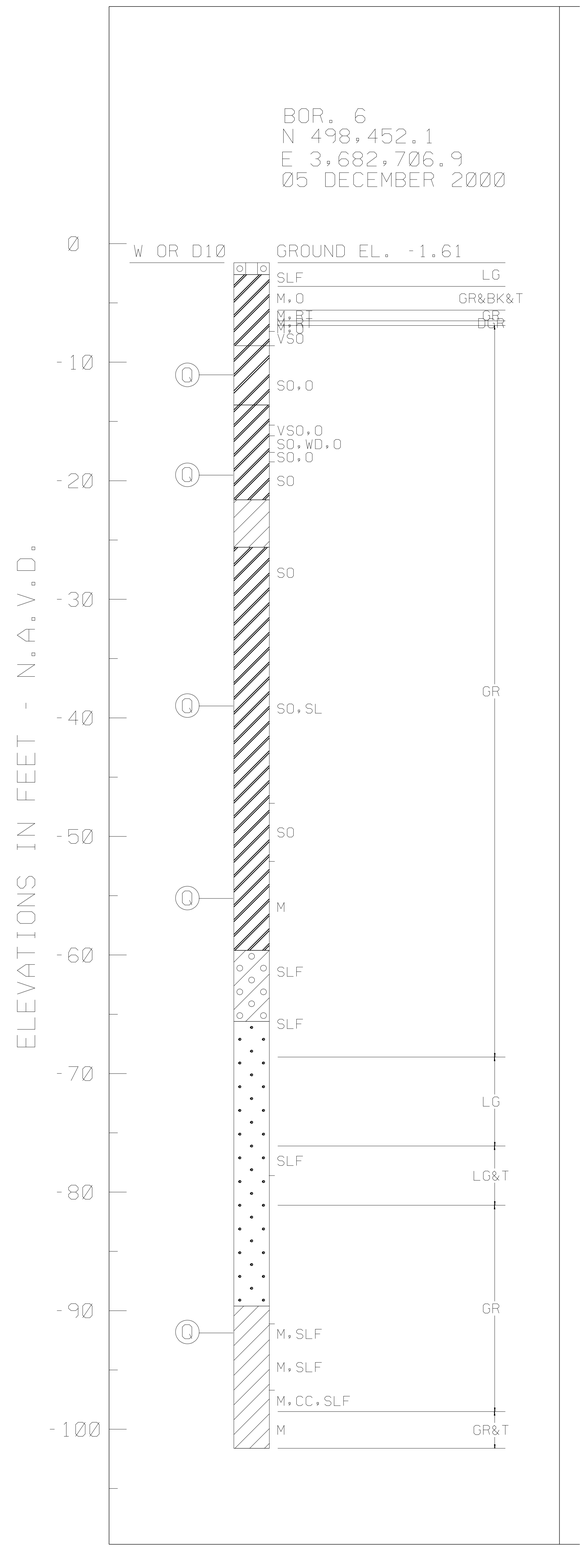
DESIGNED BY: C.M.P.
CHECKED BY: G.P.S.
DRAWN BY: D.C.L.
DATE: 4/27/2004

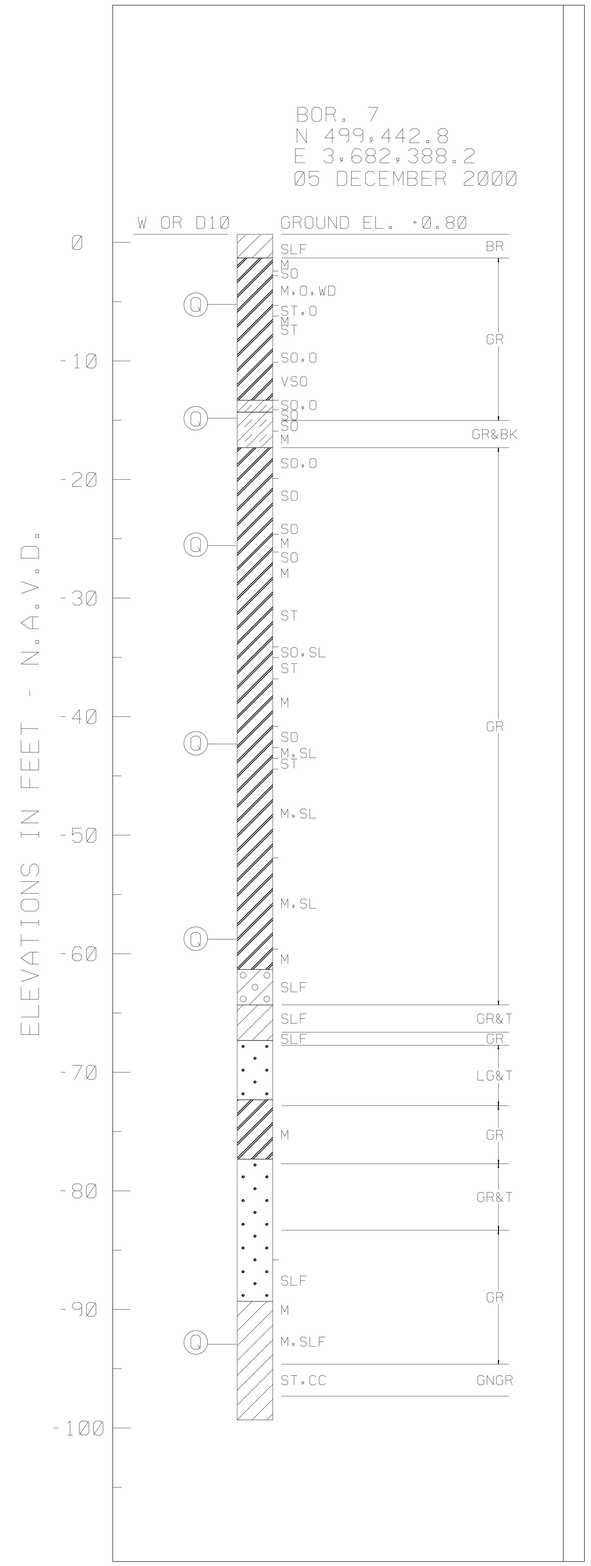
PLOT SCALE:
PLOT DATE:
DESIGN FILE NAME: P-GD 3.DGN
SUBMITTED BY: GWEN P. SANDERS, P.E.
DESIGN ENGINEER
SOLICITATION NO. W912P8-06-R-0183

FILE NUMBER
H-4-45982
DWG. G-02 OF X

SAFETY IS A PART OF YOUR CONTRACT







US ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.
1	NEW DWG.		
	AMEND. # 0002	9/19/06	SM

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

DESIGNED BY: C.M.P.
CHECKED BY: G.P.S.
DRAWN BY: D.C.L.
DATE: 4/27/2004

PLOT SCALE:
PLOT DATE:

DESIGN FILE NAME: P-GD-7.DGN

SUBMITTED BY: GWEN P. SANDERS, P.E.
DESIGN ENGINEER

SOLICITATION NO. W912P8-06-R-0183

1

FILE NUMBER
H-4-45982

DWG. G-03 OF X

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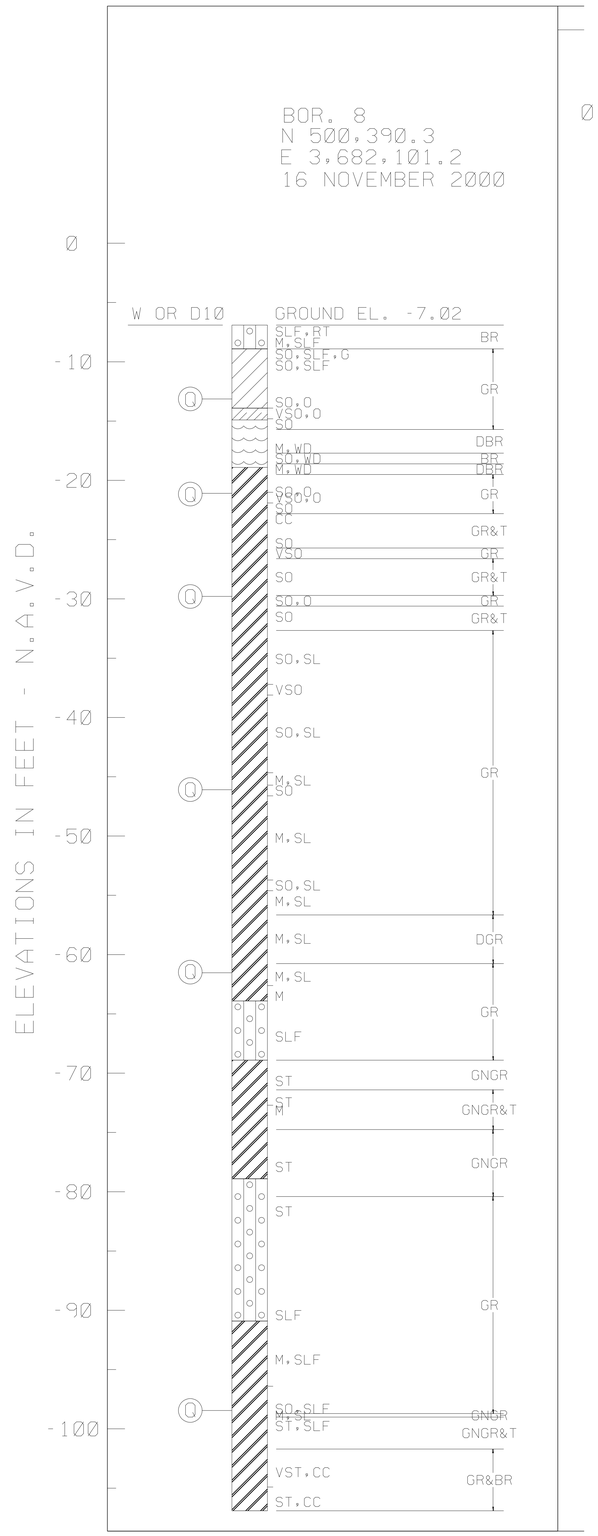

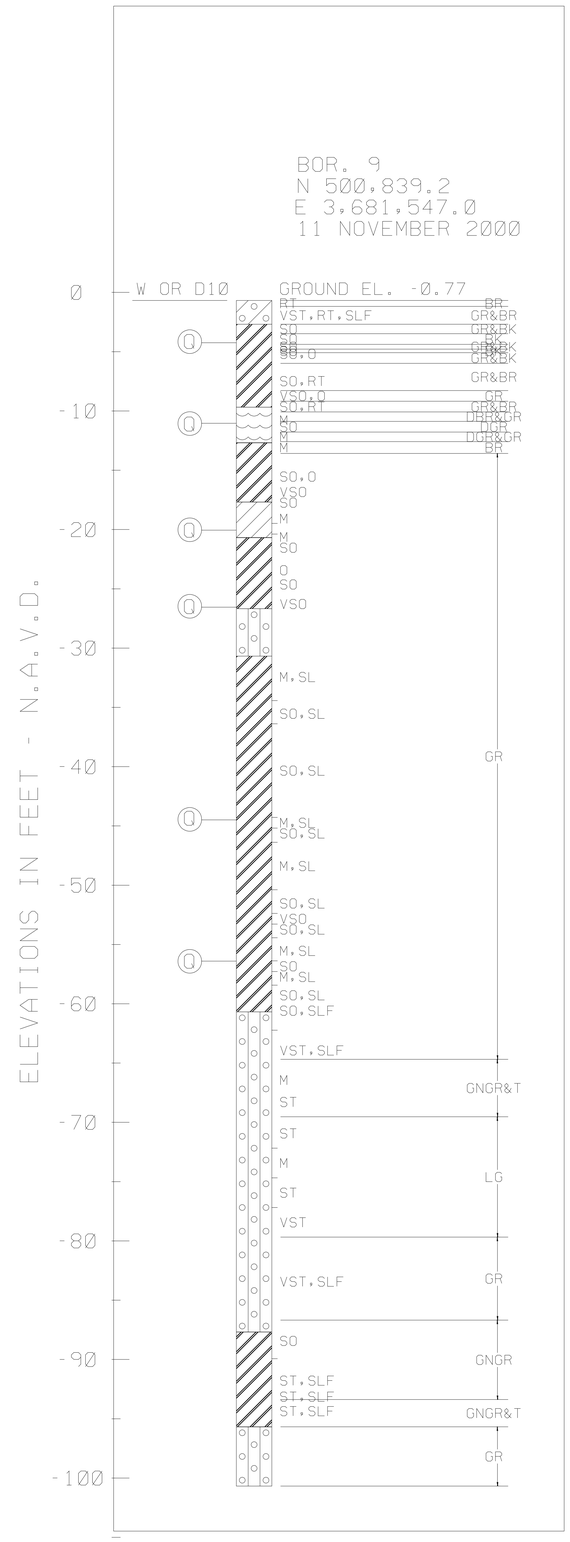

US ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.
1	NEW DWG.				AMEND. • 0002	8/19/06	SM

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

DESIGNED BY: C.M.P.
CHECKED BY: G.P.S.
DRAWN BY: D.C.L.
DATE: 4/27/2004

PLOT SCALE:
PLOT DATE:

DESIGN FILE NAME: F-GO-10.DGN
SUBMITTED BY: GWEN P. SANDERS, P.E.
DESIGN ENGINEER
SOLICITATION NO. W912P8-06-R-0183

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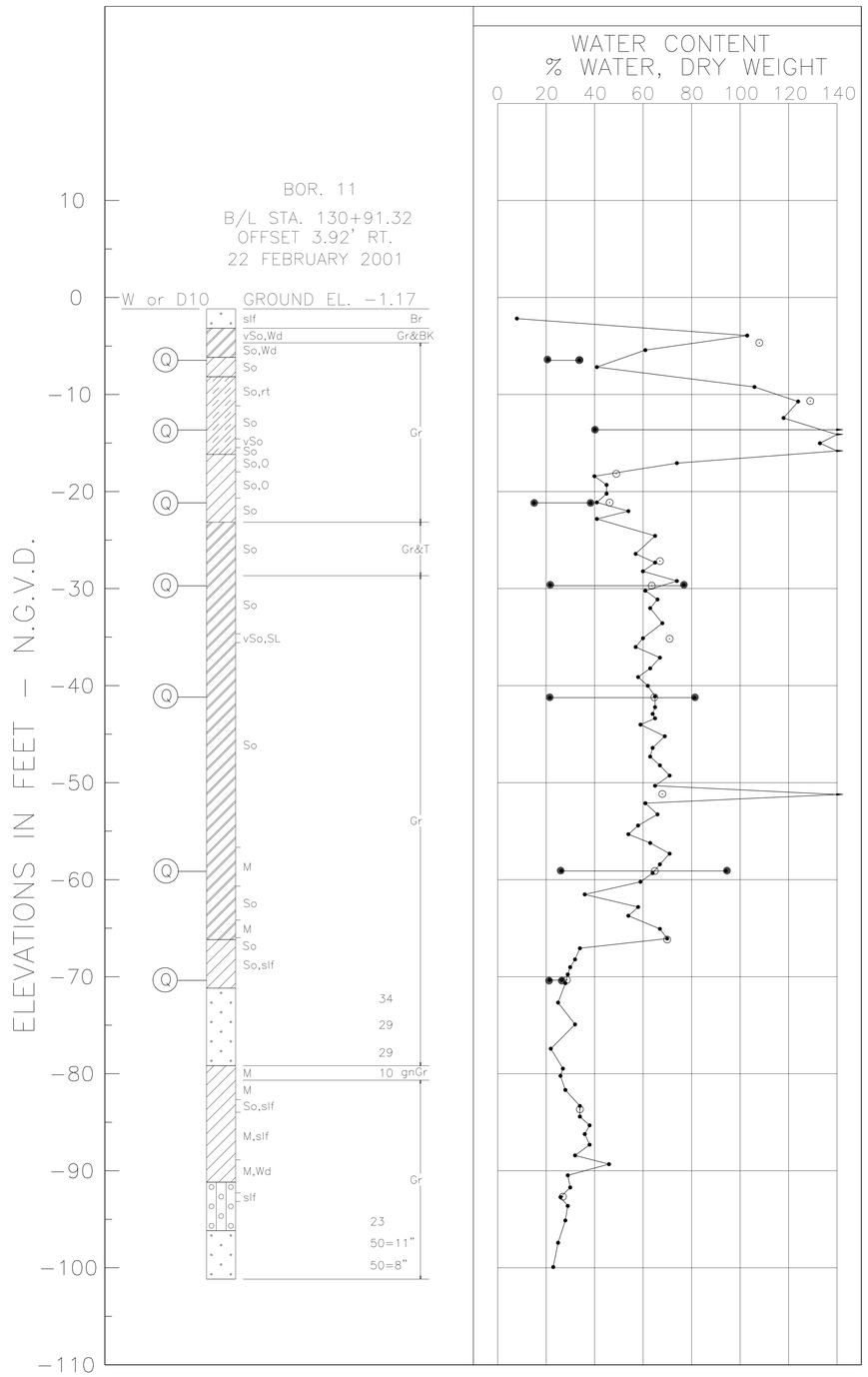
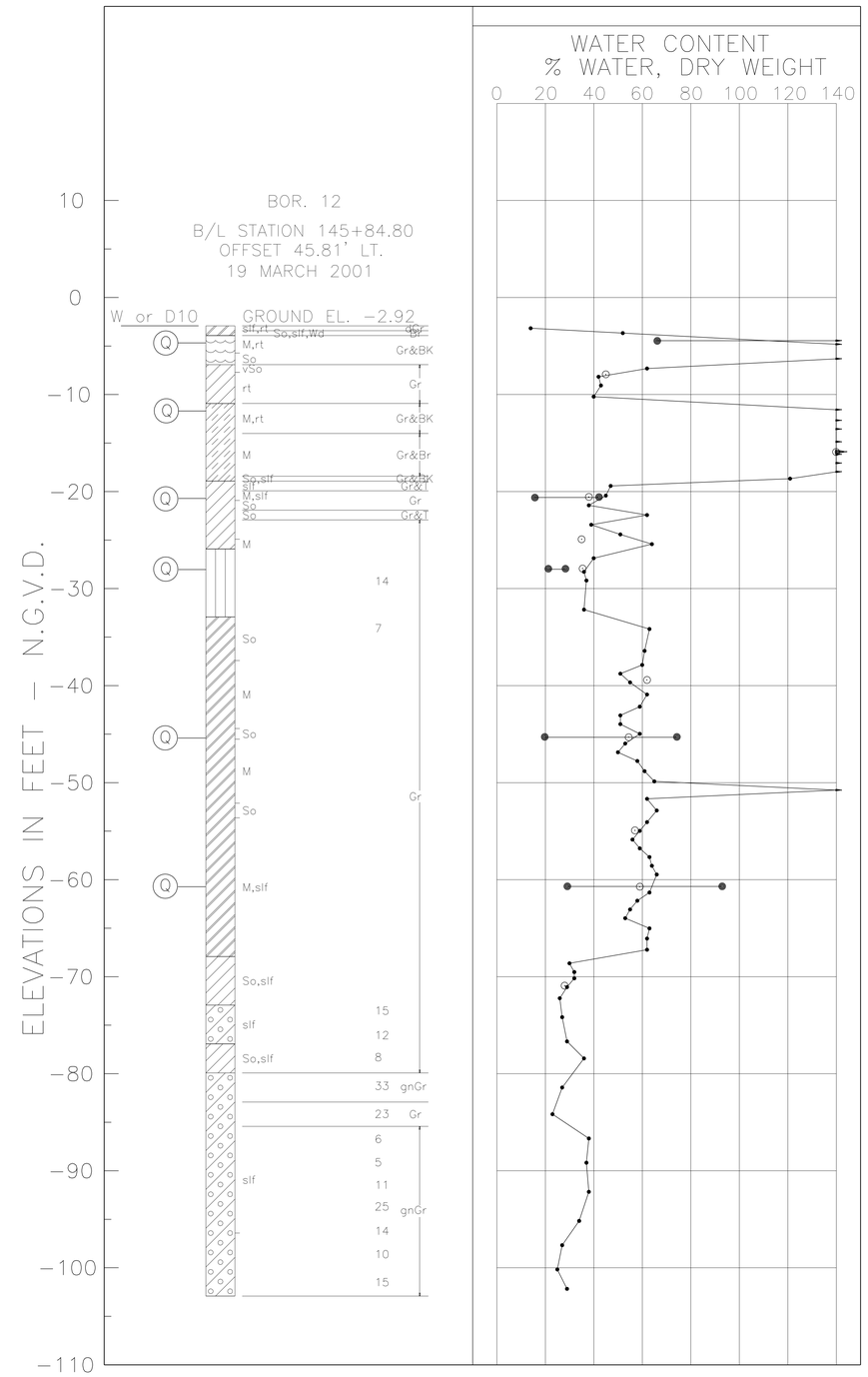
FILE NUMBER
H-4-45982

DWG. G-04 OF X





US Army Corps of Engineers
New Orleans District

MARK	DESCRIPTION	DATE	APPR	MARK	DESCRIPTION	DATE	APPR

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

DESIGNED BY: X
CHECKED BY: X
DRAWN BY: X
DATE: X

PLOT SCALE: 1:1
PLOT DATE: X

DESIGN FILE NAME: 45891128.DGN
SUBMITTED BY: X
DESIGN ENGINEER
SOLICITATION NO. W912P8-06-R-0183

FILE NUMBER
H-4-46473

DWG. G05 OF X

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UNIFIED SOIL CLASSIFICATION

MAJOR DIVISION		TYPE	LETTER SYMBOL	SYMBOL	TYPICAL NAMES
COARSE - GRAINED SOILS More than half of material is larger than No. 200 sieve size.	GRAVELS More than half of coarse fraction is larger than No. 4 sieve size.	CLEAN GRAVEL (Little or No Fines)	GW		GRAVEL, Well Graded, gravel-sand mixtures, little or no fines
			GP		GRAVEL, Poorly Graded, gravel-sand mixtures, little or no fines
		GRAVEL WITH FINES (Appreciable Amount of Fines)	GM		SILTY GRAVEL, gravel-sand-silt mixtures
			GC		CLAYEY GRAVEL, gravel-sand-clay mixtures
	SANDS More than half of coarse fraction is smaller than No. 4 sieve size.	CLEAN SAND (Little or No Fines)	SW		SAND, Well-Graded, gravelly sands
			SP		SAND, Poorly-Graded, gravelly sands
		SANDS WITH FINES (Appreciable Amount of Fines)	SM		SILTY SAND, sand-silt mixtures
			SC		CLAYEY SAND, sand-clay mixtures
FINE - GRAINED SOILS More than half the material is smaller than No. 200 sieve size.		SILTS AND CLAYS (Liquid Limit < 50)	ML		SILT & very fine sand, silty or clayey fine sand or clayey silt with slight plasticity
			CL		LEAN CLAY, Sandy Clay, Silty Clay, of low to medium plasticity
			OL		ORGANIC SILTS, and organic silty clays of low plasticity
		SILTS AND CLAYS (Liquid Limit > 50)	MH		SILT, fine sandy or silty soil with high plasticity
			CH		FAT CLAY, inorganic clay of high plasticity
			OH		ORGANIC CLAYS of medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS			Pt		PEAT, and other highly organic soil
WOOD			Wd		WOOD
SHELLS			Sl		SHELLS
NO SAMPLE			NS		No Sample Retrieved

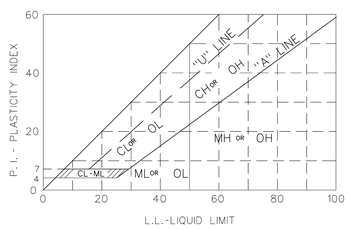
NOTE: Soils possessing characteristics of two groups are designated by combinations of group symbols.

DESCRIPTIVE SYMBOLS

COLOR	SYMBOL
TAN	T
YELLOW	Y
RED	R
BLACK	BK
GRAY	Gr
LIGHT GRAY	lGr
DARK GRAY	dGr
BROWN	Br
LIGHT BROWN	lBr
DARK BROWN	dBr
BROWNISH-GRAY	brGr
GRAYISH-BROWN	gyBr
GREENISH-GRAY	gnGr
GRAYISH-GREEN	gyGn
GREEN	Gn
BLUE	Bl
BLUE-GREEN	BlGn
WHITE	Wh
MOTTLED	Mot

CONSISTENCY FOR COHESIVE SOILS

CONSISTENCY	COHESION IN LBS./SQ.FT. FROM UNCONFINED COMPRESSION TEST	SYMBOL
VERY SOFT	< 250	vSo
SOFT	250-500	So
MEDIUM	500-1000	M
STIFF	1000-2000	St
VERY STIFF	2000-4000	vSt
HARD	> 4000	H



PLASTICITY CHART

For classification of fine-grained soils in accordance with ASTM D 2487

MODIFICATION	SYMBOL
Traces	Tr
Fine	F
Medium	M
Coarse	C
Concretions	cc
Rootlets	rt
Lignite fragments	lg
Shale fragments	sh
Sandstone fragments	sds
Shell fragments	slf
Organic matter	O
Clay strata or lenses	CS
Silt strata or lenses	SIS
Sand strata or lenses	SS
Sandy	S
Gravelly	G
Boulders	B
Slickensides	SL
Wood	Wd
Oxidized	Ox

NOTES:

FIGURES TO LEFT OF BORING UNDER COLUMN "W OR D_{10}"

Are natural water contents in percent dry weight

When underlined denotes D size in mm *

FIGURES TO LEFT OF BORING UNDER COLUMNS "LL" AND "PL"

Are liquid and plastic limits, respectively

SYMBOLS TO LEFT OF BORING

▽ Ground-water surface and date observed

Ⓒ Denotes location of consolidation test * *

Ⓢ Denotes location of consolidated-drained direct shear test * *

Ⓡ Denotes location of consolidated-undrained triaxial compression test

Ⓠ Denotes location of unconsolidated-undrained triaxial compression test * *

Ⓣ Denotes location of sample subjected to consolidation test and each of the above three types of shear test * *

FW Denotes free water encountered in boring or sample

FIGURES TO RIGHT OF BORING

Are values of cohesion in lbs./sq.ft. from unconfined compression tests

In parenthesis are driving resistances in blows per foot determined with a standard split spoon sampler (1 3/8 I.D., 2" O.D.) and a 140 lb. driving hammer with a 30" drop

Where underlined with a solid line denotes laboratory permeability in centimeters per second of undisturbed sample

Where underlined with a dashed line denotes laboratory permeability in centimeters per second of sample remoulded to the estimated natural void ratio

* The D_{10} size of a soil is the grain diameter in millimeters of which 10% of the soil is finer, and 90% coarser than D_{10}.

* * Results of these tests are available for inspection in the U.S. Army Engineer District Office, if these symbols appear beside the boring logs on the drawings.

TYPICAL NOTES:

1. While the borings are representative of subsurface conditions at their respective locations and for their respective vertical reaches, local variations characteristic of the subsurface materials of the region are anticipated and, if encountered, such variations will not be considered as differing materially within the purview of the contract clause entitled "Differing Site Conditions".

2. Ground-water elevations shown on the boring logs represent ground-water surfaces encountered in such borings on the dates shown. Absence of water surface data on certain borings indicates that no ground-water data are available from the boring but does not necessarily mean that ground-water will not be encountered at the locations or within the vertical reaches of such borings.

3. Consistency of cohesive soils shown on the boring logs is based on driller's log and visual examination and is approximate, except within those vertical reaches of the borings where shear strengths from unconfined compression tests are shown.

4. Unless otherwise noted:

   a. Undisturbed borings, indicated by the letter "U", are taken with a 5" I.D. Piston Type Sampler.

   b. General type borings are taken with a 1 1/8" I.D. Tube Sampler and/or a 1 3/8" I.D. Split Spoon Sampler.

US Army Corps of Engineers New Orleans District

MARK	DESCRIPTION	DATE	APPR.
1	NEW DWG.		

MARK	DESCRIPTION	DATE	APPR.
	AMEND. # 0002	2/10/06	SM

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

DESIGNED BY: X
CHECKED BY: X
DRAWN BY: X
DATE: X

PLOT SCALE: 1:1
PLOT DATE: X

DESIGN FILE NAME: 45891125.DGN
SOLICITATION NO.: W912P8-06-R-0183
SUBMITTED BY:
DESIGN ENGINEER

FILE NUMBER H-4-45891

DWG. G06 OF X

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