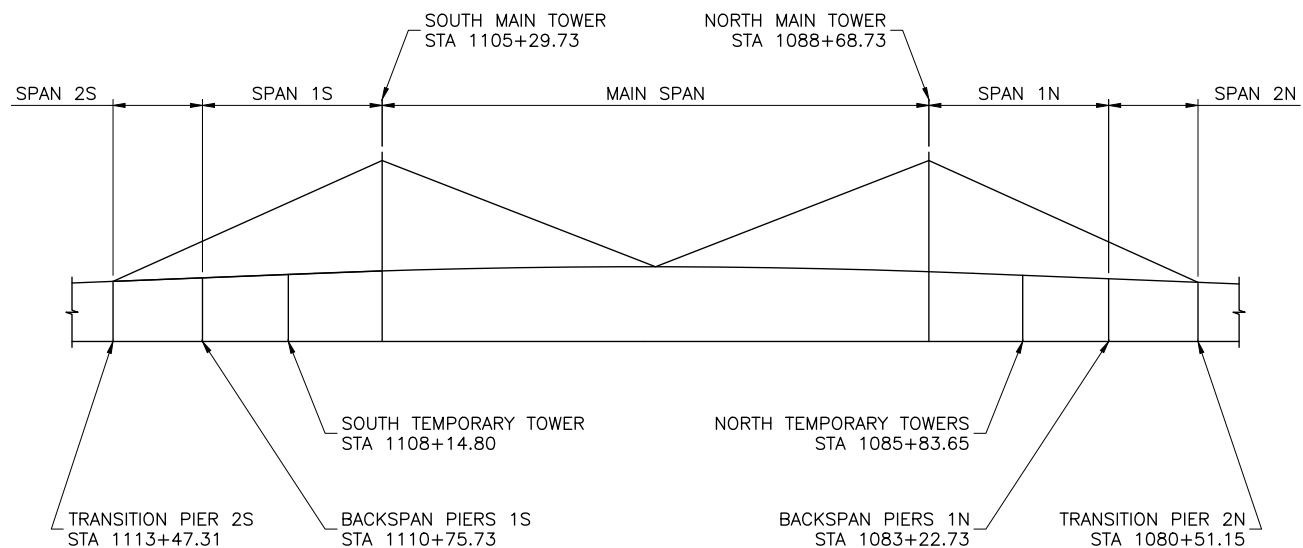


TEMPRARY SUPPORT TOWERS
GENERAL ARRANGEMENT - PLAN



KEY - BRIDGE ELEVATION
STATION LAYOUT

- GENERAL NOTES:**
- ALL DIMENSIONS IN DECIMAL FT, U.N.O.. MEMBER SIZES ARE SPECIFIED IN IMPERIAL SIZES.
 - MATERIALS:**
 - W SHAPES ASTM A992 Gr.50ksi.
 - ANGLES AND CHANNELS ASTM A36 Gr.36ksi.
 - HSS ASTM A500 Gr.B.
 - PIPE ASTM A53 Gr.B.
 - PLATES ASTM A36 Gr.36ksi.
 - MILL CERTIFICATION REQUIRED FOR ALL STEEL.
 - WELDING ELECTRODES E70XX.
 - BOLTS ASTM A325 U.N.O.
 - ANCHORAGE THREADED BARS SHALL BE ASTM A722 150ksi SUPPLIED BY WILLIAMS FORM ENGINEERING, OR EQUIVALENT.
 - FABRICATION:**
 - FABRICATION SHALL BE IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION, 15TH EDITION.
 - WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1, LATEST EDITION.
 - ALL WELDS SHALL BE PREQUALIFIED AND ALL WELDERS SHALL BE AWS CERTIFIED.
 - ALL STEEL SHALL BE UNCOATED (BLACK). NO PAINT IS REQUIRED ON FABRICATED STEEL.
 - ALL HOLES ARE STANDARD SIZE HOLES U.N.O.
 - CENTERLINES RUN THROUGH NEUTRAL AXIS OF ROLLED SHAPES.
 - FOR ACCESS DETAILS REFER TO SHEETS X-X
- DESIGN CRITERIA:**
- PRELIMINARY DESIGN LOADS ON THE TEMPORARY TOWERS HAVE BEEN PROVIDED BY FIGG ENGINEERING (BRIDGE DESIGNER) IN "TEMPORARY TOWERS LOAD SUMMARY" DOCUMENT DATED MAY 29, 2019.
 - TEMPORARY SUPPORT TOWER DESIGN IS IN ACCORDANCE WITH ANSI/AISC 360-16.
 - CONSTRUCTION LIVE LOAD CONSIDERED IS 50psf.

T.B.P.E FIRM NO. 19042

PE SEAL

Preliminary

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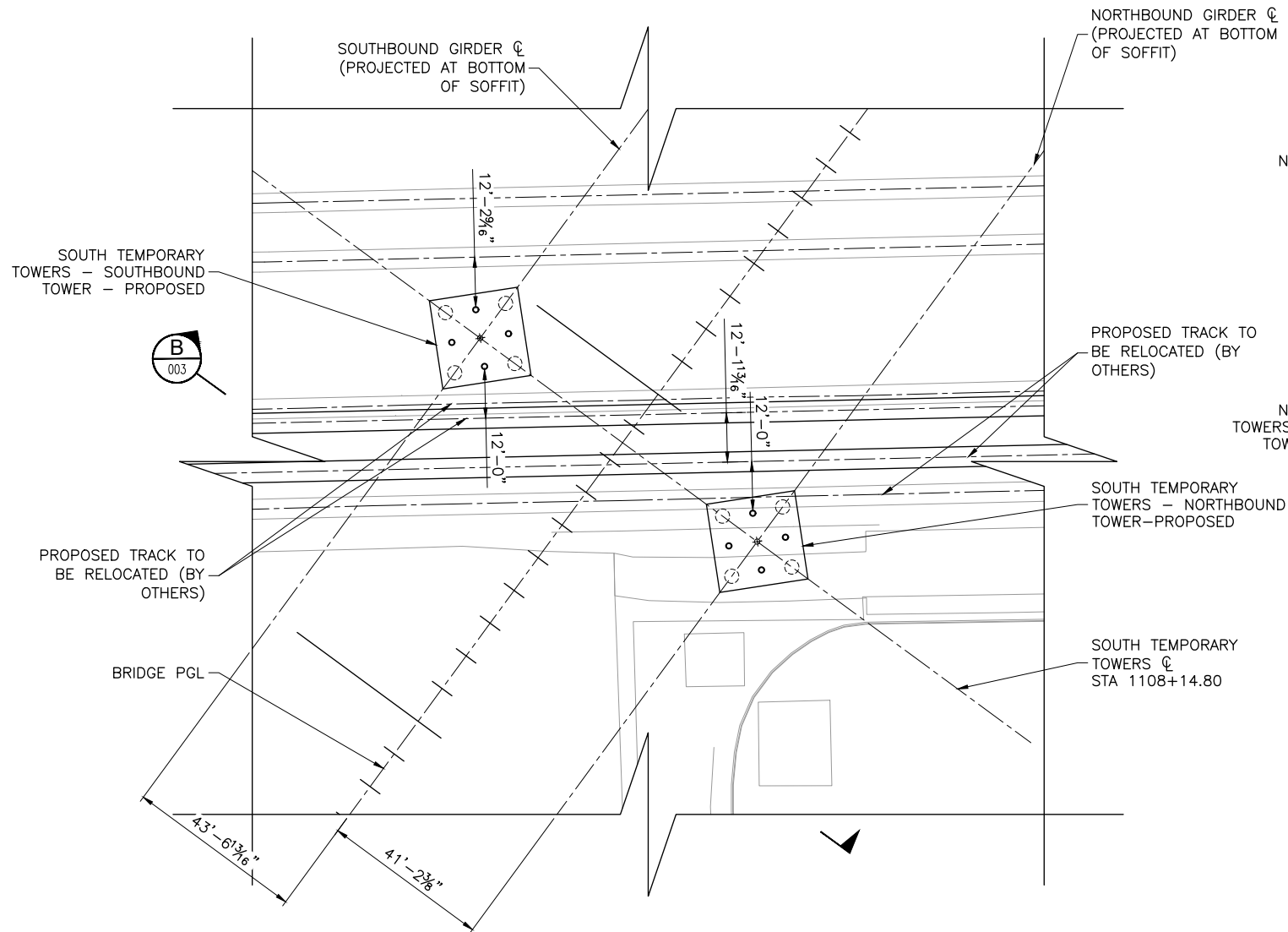
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DRAWN	B. CLARK	8/16/2019	A	8/16/2019	30% ISSUED FOR COMMENT	BTC			
			B	9/23/2019	HINGE SYSTEM ADDED	BTC			
CHECKED			C	10/15/2019	FOOTING LOCATIONS AND PILE DETAILS REVISED	BTC			
APPROVED									



**US 181 HARBOR BRIDGE
REPLACEMENT PROJECT**
500 NORTH SHORELINE BOULEVARD, SUITE 500
CORPUS CHRISTI, TX 78401

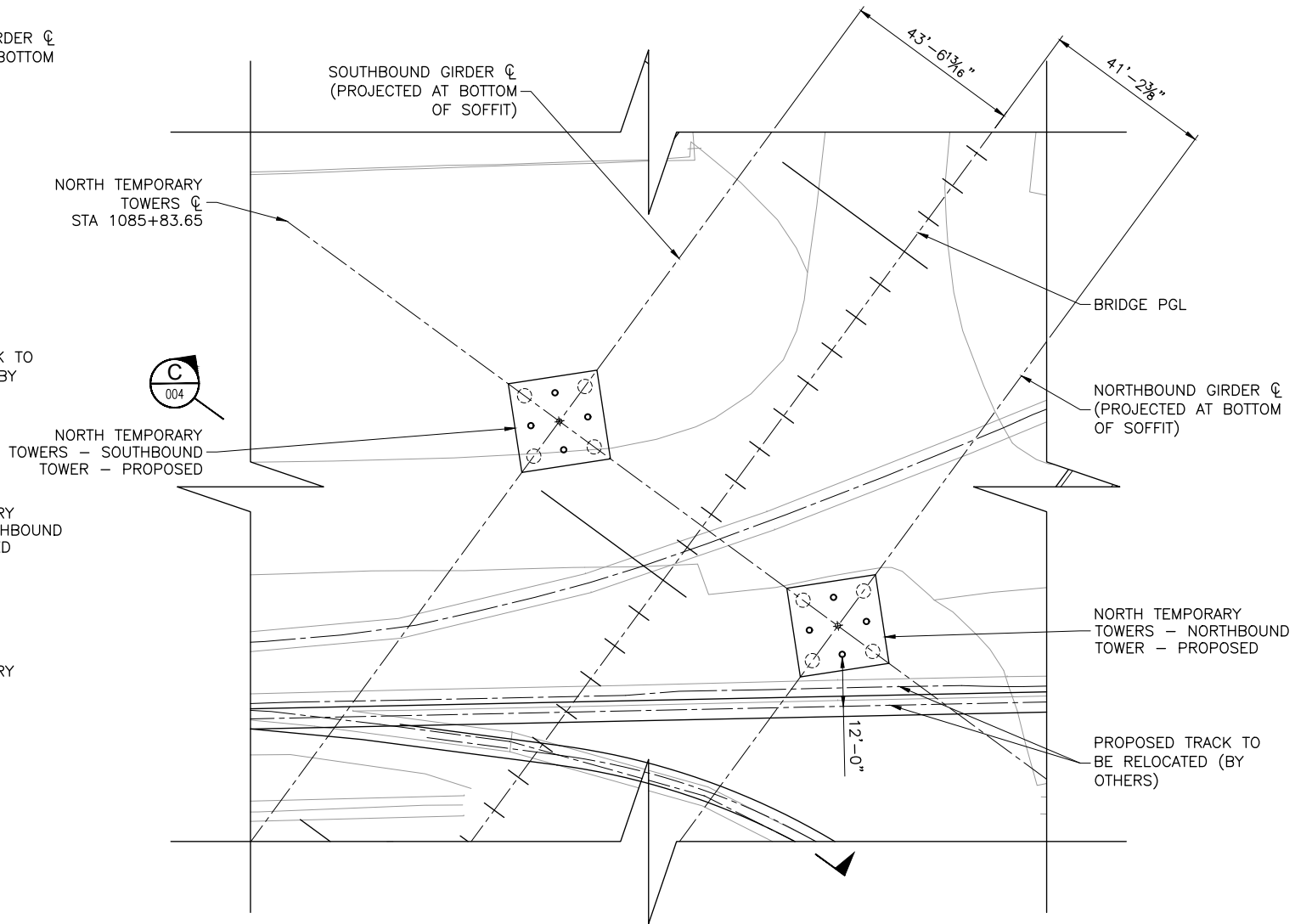
**CABLE STAYED BRIDGE
TEMPORARY PIER PASS
SUPPORT TOWERS
GENERAL ARRANGEMENT**

FLATIRON JOB No.	2835	DRAWING No.	2835-CSB-TST-001	SHEET	1	OF	X
SUPERSEDES PRINTS OF THIS DRAWING WITH REVISIONS PREVIOUS TO → C							



DETAIL
SOUTH TEMPORARY TOWERS LOCATION

1
001



DETAIL
NORTH TEMPORARY TOWERS LOCATION

2
001

- NOTES:
1. FOR GENERAL NOTES SEE SHEET 2835-CSB-TST-001.
 2. PROJECT SITE PERSONNEL TO CONFIRM WITH SURVEY.

I.B.P.E FIRM NO. 19042

PE SEAL

Preliminary

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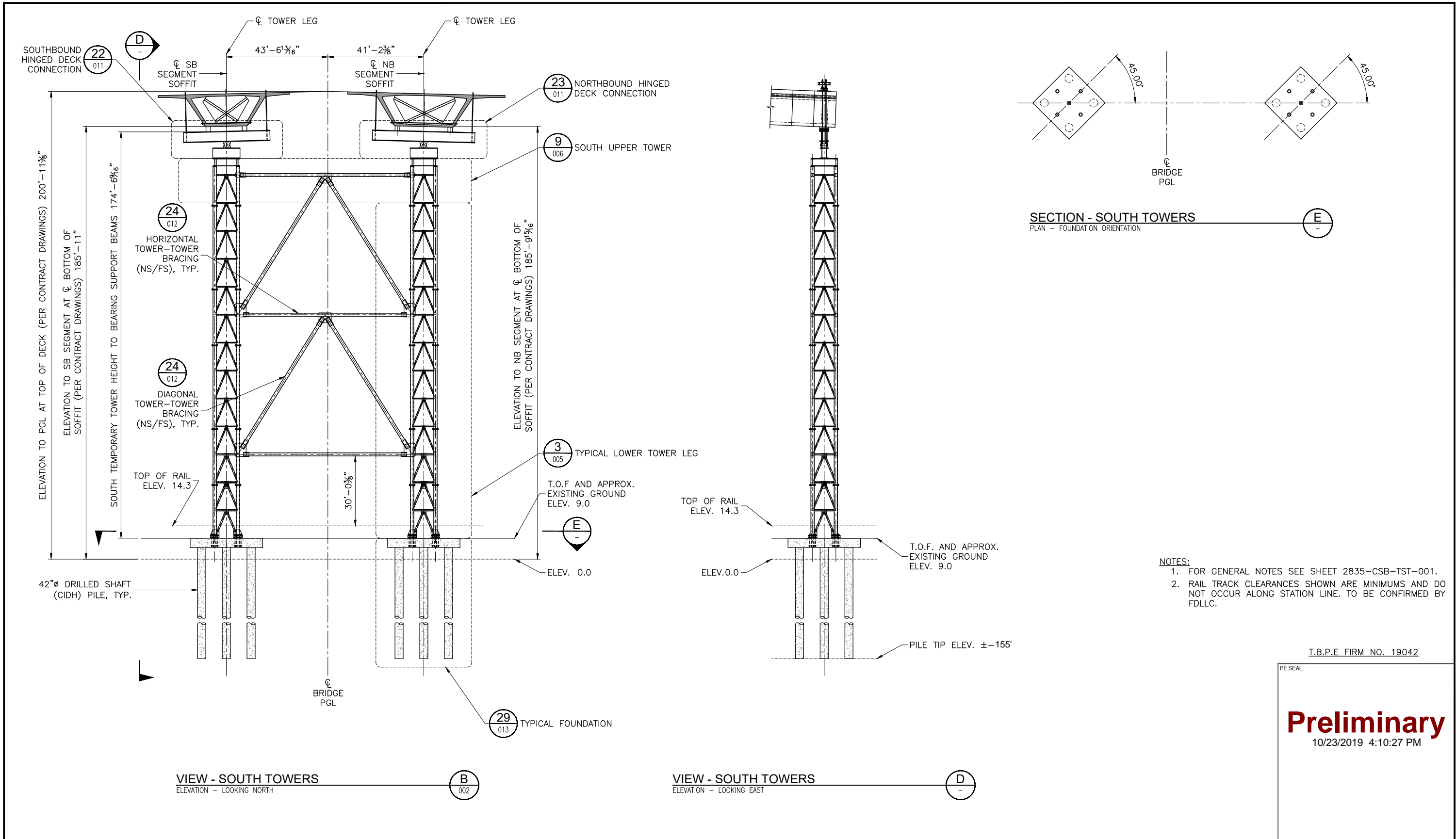
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	8/16/2019	B	9/23/2019	HINGE SYSTEM ADDED	BTC			
CHECKED		C	10/15/2019	FOOTING LOCATIONS AND PILE DETAILS REVISED	BTC			
APPROVED								



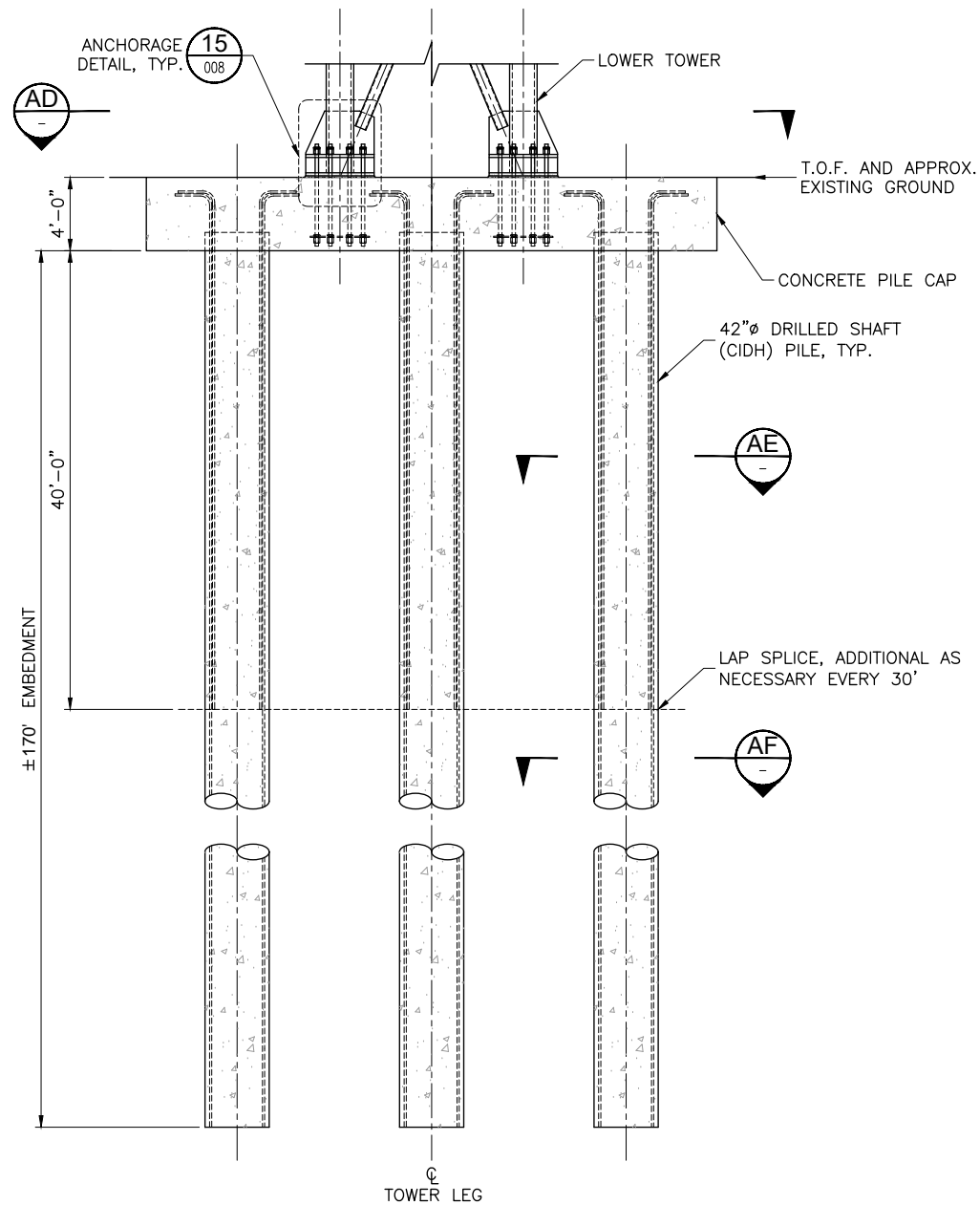
US 181 HARBOR BRIDGE
REPLACEMENT PROJECT
500 NORTH SHORELINE BOULEVARD, SUITE 500
CORPUS CHRISTI, TX 78401

CABLE STAYED BRIDGE
TEMPORARY PIER PASS
SUPPORT TOWERS
TOWER LOCATION LAYOUT

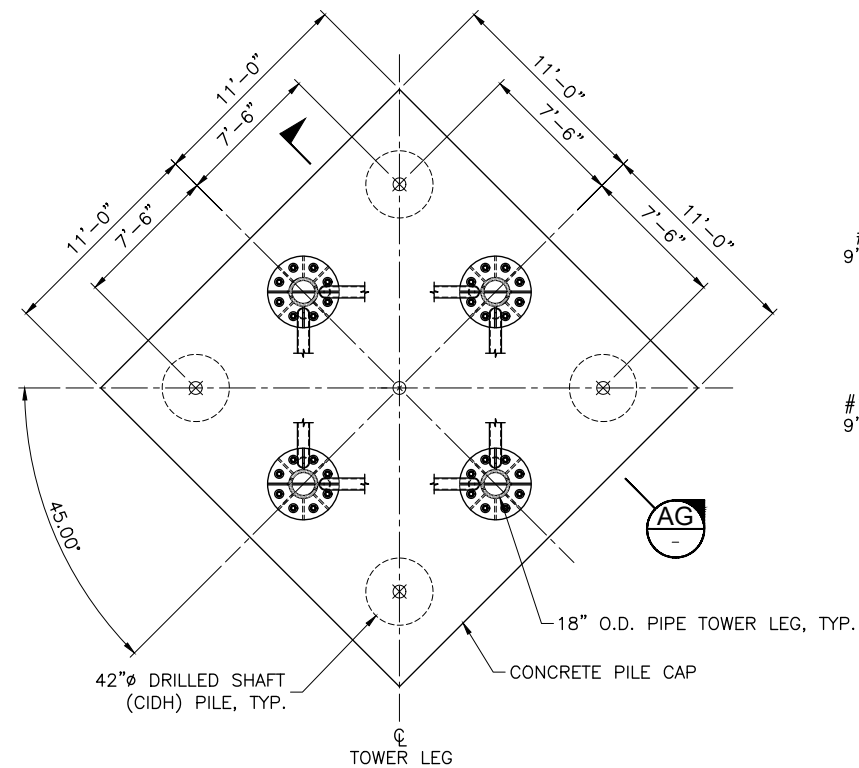
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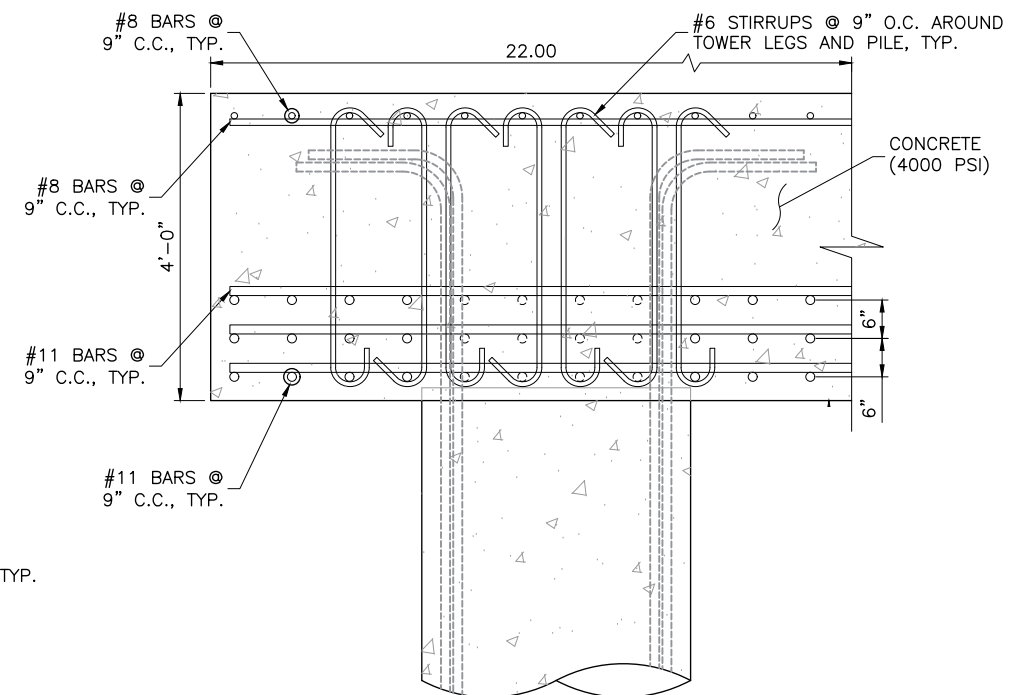
DESIGNED <u>B. CLARK</u>		8/16/2019	REVISIONS					SPECIFICATIONS AND REFERENCE DRAWINGS						<div>US 181 HARBOR BRIDGE REPLACEMENT PROJECT</div> <div>500 NORTH SHORELINE BOULEVARD, SUITE 500 CORPUS CHRISTI, TX 78401</div>	CABLE STAYED BRIDGE TEMPORARY PIER PASS SUPPORT TOWERS SOUTH TEMPORARY TOWERS G.A.				
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			B	9/23/2019	HINGE SYSTEM ADDED	BTC													
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CHECKED																			
APPROVED	DATE																		
	DATE													SUPERSEDES PRINTS OF THIS DRAWING WITH REVISIONS PREVIOUS TO → C					



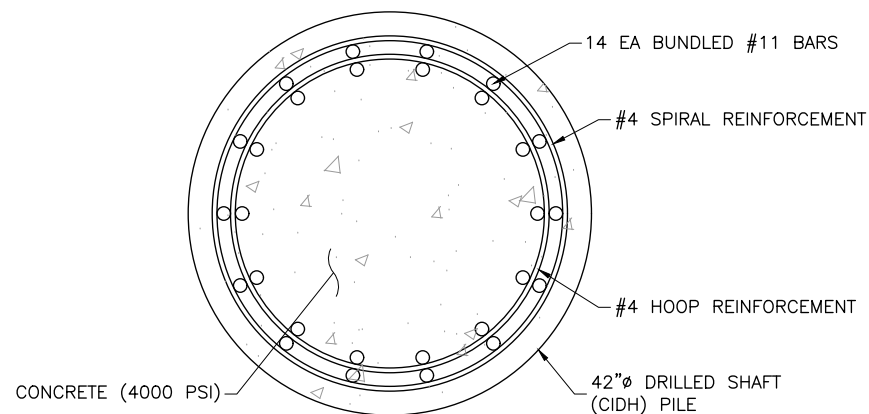
DETAIL - FOUNDATION 29/003/4
ELEVATION - LOOKING NORTH



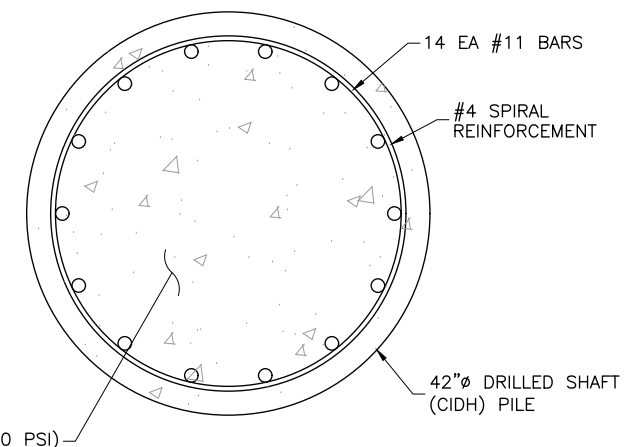
VIEW - PILE CAP AD
PLAN



SECTION - PILE CAP AG
REINFORCEMENT



SECTION - UPPER PILE AE
REINFORCED CONCRETE DRILLED SHAFT



SECTION - LOWER PILE AF
REINFORCED CONCRETE DRILLED SHAFT

NOTES:
1. FOR GENERAL NOTES SEE SHEET 2835-CSB-TST-001.

T.B.P.E FIRM NO. 19042

PE SEAL

Preliminary
10/23/2019 4:10:27 PM

DESIGNED	DATE	REVISIONS					SPECIFICATIONS AND REFERENCE DRAWINGS	
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DRAWN	8/16/2019	B	9/23/2019	HINGE SYSTEM ADDED	BTC			
CHECKED		C	10/15/2019	FOOTING LOCATIONS AND PILE DETAILS REVISED	BTC			
APPROVED								



**US 181 HARBOR BRIDGE
REPLACEMENT PROJECT**
500 NORTH SHORELINE BOULEVARD, SUITE 500
CORPUS CHRISTI, TX 78401

**CABLE STAYED BRIDGE
TEMPORARY PIER PASS
SUPPORT TOWERS
TYPICAL FOUNDATION DETAILS**

FLATIRON JOB No.	2835	DRAWING No.	2835-CSB-TST-013	SHEET	13	OF	X
SUPERSEDES PRINTS OF THIS DRAWING WITH REVISIONS PREVIOUS TO → C							