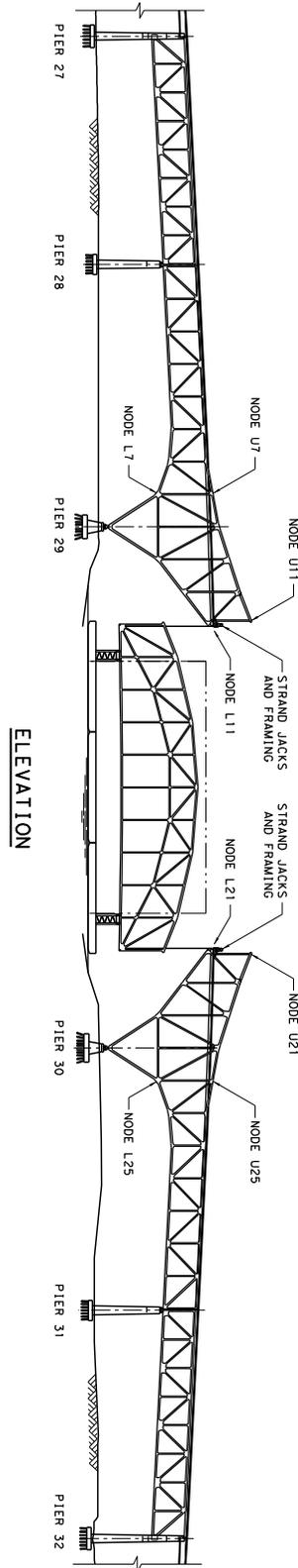


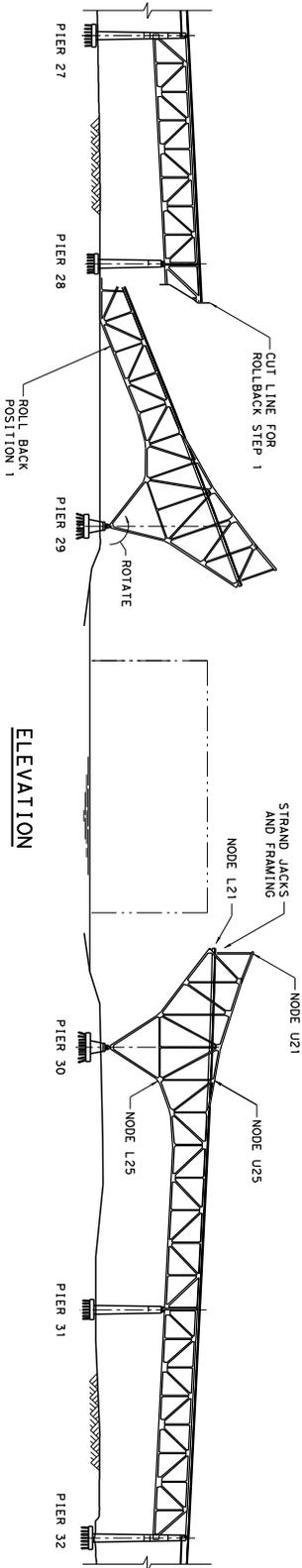
PRELIMINARY NOT FOR CONSTRUCTION, MARCH 2015

|   |                   |                         |               |
|---|-------------------|-------------------------|---------------|
|   |                   |                         |               |
| <p>US 181/71H 37 - HARBOR BRIDGE EXISTING BRIDGE DEMOLITION PROCEDURE 1</p> |                   |                         |               |
| DESIGNER  | FED. RD. DIV. NO. | FEDERAL AID PROJECT NO. | SHEET 1 OF 6  |
| GRAPHICS  | X                 | (See Title Sheet)       | HIGHWAY NO. X |
| CHECK   | TEXAS             | DISTRICT                | COUNTY        |
| CHECK   | CRP               | NUJECES                 | SHEET NO.     |
| CHECK   | SECTION           | 095                     | D1            |

- PHASE 1 - REMOVE MAIN SPAN CENTER ARCH**
1. REINFORCE CANTILEVER TRUSSES AND INSTALL FRAMING, INCLUDING ADDITIONAL ANCHORAGES AND SUPPORTS, FOR MOUNTING OF THE STRAND JACKS THAT WILL BE USED TO LOWER THE CENTER ARCH.
  2. REMOVE ROADWAY DECKING AFTER PREP WORK IS COMPLETED AND PRIOR TO LOWERING CENTER SPAN.
  3. INSTALL CRIBBING ON BARGE TO SUPPORT THE CENTER ARCH.
  4. DETACH MAIN SPAN CENTER ARCH FROM CANTILEVER TRUSSES ALONG NODES U11-L11 AND U21-L21.
  5. LOWER CENTER ARCH SPAN THROUGH USE OF STRAND JACKS TO BARGE POSITIONED UNDERNEATH SPAN AND MOVE BARGE TO ANCHORAGE CLEAR OF SHIP CHANNEL.
  6. REMOVE STRAND JACK FRAMING.



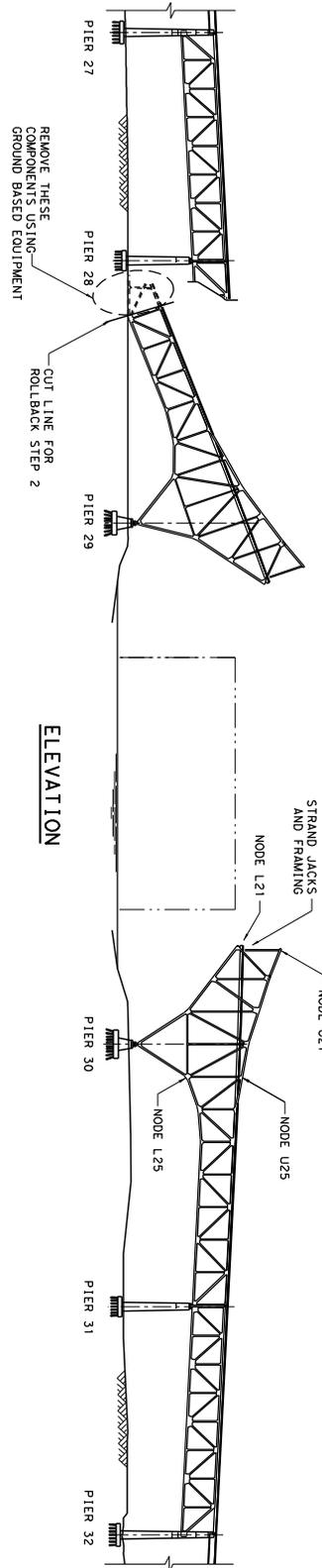
- PHASE 2 - REMOVE CANTILEVER TRUSSES**
1. REMOVE ROADWAY DECK FROM PIERS 28 & 31 TOWARDS CHANNEL.
  2. CUT TRUSS MEMBERS AS SHOWN TO ROTATE AND LOWER SPAN ON LAND.



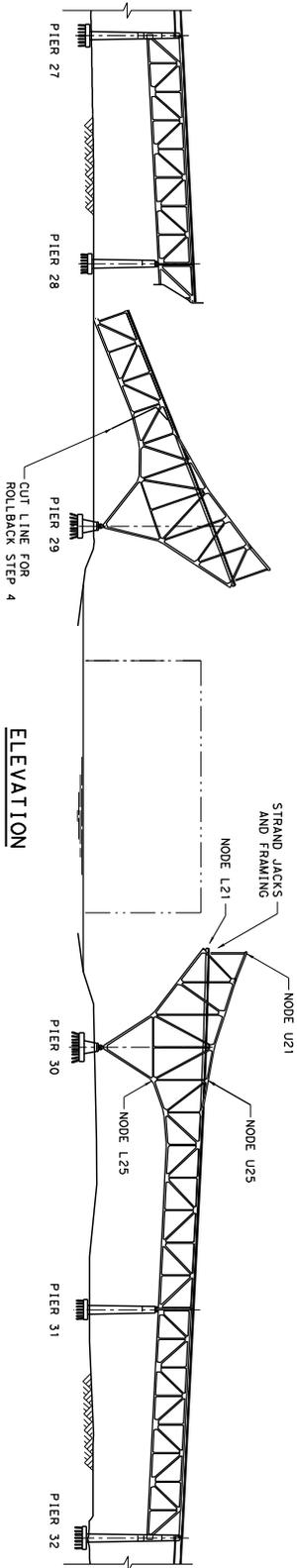
PRELIMINARY NOT FOR CONSTRUCTION, MARCH 2015

|   |                      |                         |               |
|---|----------------------|-------------------------|---------------|
|   |                      |                         |               |
| Texas Department of Transportation<br><b>US 181/71H 37 - HARBOR BRIDGE</b><br>EXISTING BRIDGE<br>DEMOLITION PROCEDURE 2 |                      |                         |               |
| DESIGNER  | FED. RD. DIV. NO.    | FEDERAL AID PROJECT NO. | SHEET 2 OF 6  |
| GRAPHICS  | X                    | (See Title Sheet)       | HIGHWAY NO. X |
| CHECK   | TEXAS STATE DISTRICT | COUNTRY                 | SHEET NO.     |
| CHECK   | CONTRACT             | SECTION                 | NO.           |
| CHECK   | 0101                 | 06                      | 095           |
|   |                      |                         | <b>D2</b>     |

**PHASE 3 - REMOVE CANTILEVER TRUSSES**  
 1. REMOVE STEEL TRUSS MEMBERS NEAR PIER 28 WITH GROUND BASED EQUIPMENT

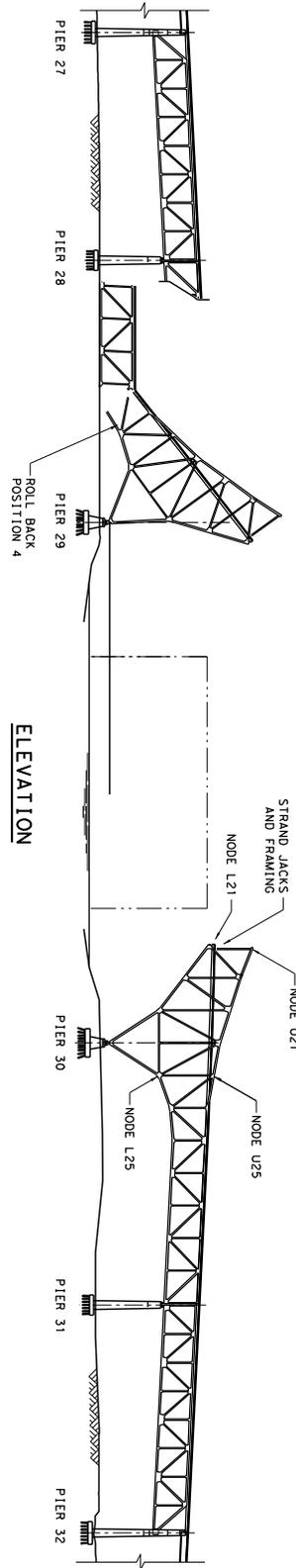


**PHASE 4 - REMOVE CANTILEVER TRUSSES**  
 1. CUT TRUSS MEMBERS AS SHOWN TO LOWER AND ROTATE REMAINING CANTILEVER TRUSS ON LAND.



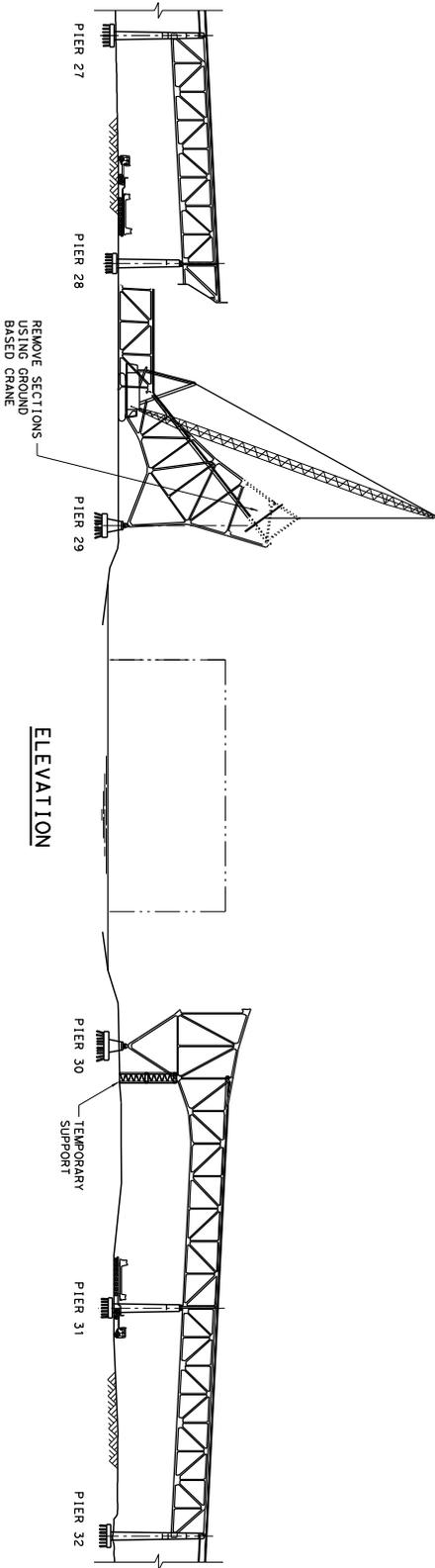
|   |                   |                         |              |
|---|-------------------|-------------------------|--------------|
|   |                   |                         |              |
| Texas Department of Transportation<br>US 181/1H 37 - HARBOR BRIDGE<br>EXISTING BRIDGE<br>DEMOLITION PROCEDURE 3 |                   |                         |              |
| DESIGNER  | FED. RD. DIV. NO. | FEDERAL AID PROJECT NO. | SHEET 3 OF 6 |
| GRAPHIC   | X                 | (See Title Sheet)       | X            |
| CHECK   | TEXAS             | CRP                     | NUJECES      |
| CHECK   | CONTROL           | SECTION                 | 095          |
| CHECK   | 0101              | 06                      | 095          |
|   |                   |                         | D3           |

**PHASE 5 - REMOVE CANTILEVER TRUSSES**  
 1. REMOVE PORTIONS OF STEEL TRUSS WITH GROUND BASED EQUIPMENT.



**ELEVATION**

**PHASE 6 - REMOVE CANTILEVER TRUSSES**  
 1. SET UP CRANE ON NORTH AND SOUTH SIDE OF SHIP CHANNEL AT PIER 29.  
 2. CAREFULLY REMOVE PORTIONS OF REMAINING CANTILEVER TRUSS OVER LAND TO AVOID WATERWAY.

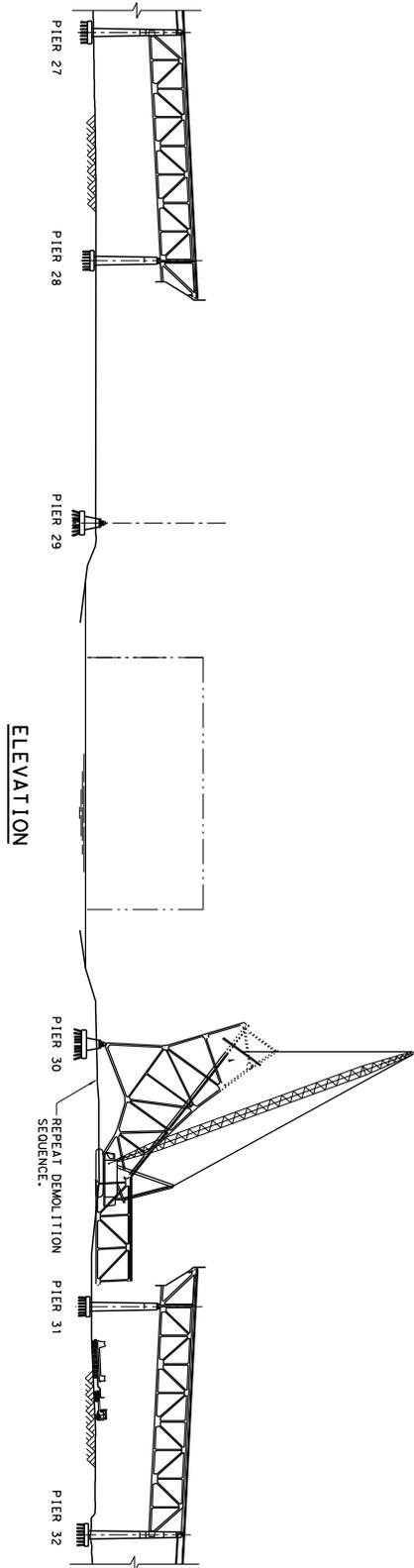


**ELEVATION**

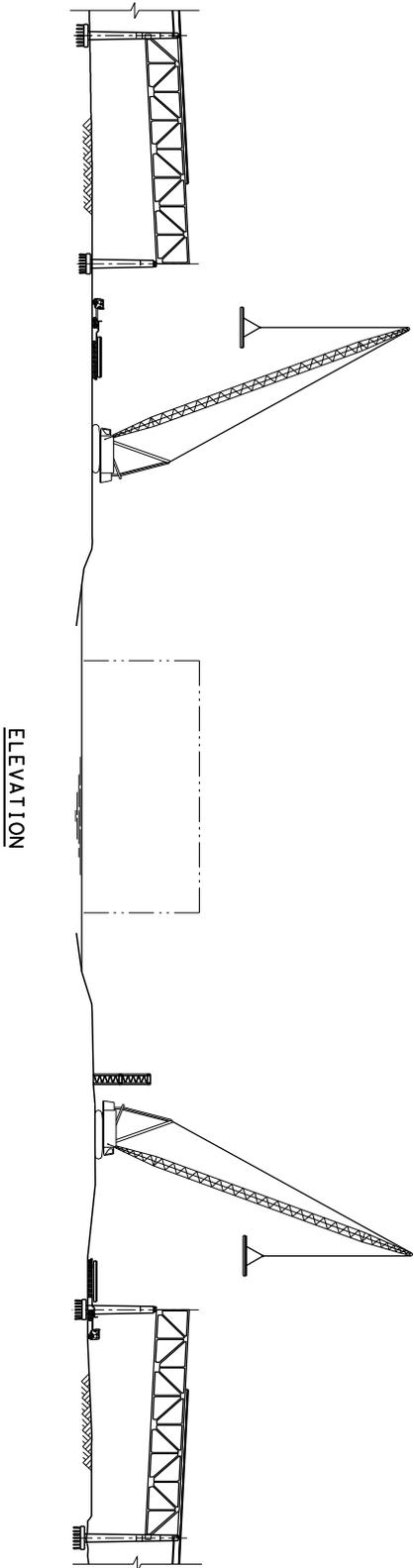
TEMPORARY SUPPORT

|  |                   |                         |               |
|--|-------------------|-------------------------|---------------|
|  |                   |                         |               |
| A JOINT VENTURE<br>In association with FIBG & ACS                                |                   | TYPE FINAL PLANS        |               |
|  |                   |                         |               |
| <b>US 181/1H 37 - HARBOR BRIDGE</b><br>EXISTING BRIDGE<br>DEMOLITION PROCEDURE 4 |                   |                         |               |
| DESIGNER   | FED. RD. DIV. NO. | FEDERAL AID PROJECT NO. | SHEET 4 OF 6  |
| GRAPHERS   | X                 | (See Title Sheet)       | HIGHWAY NO. X |
| CHECK  | STATE             | DISTRICT                | COUNTY        |
| CHECK  | TEXAS             | CRP                     | NUJECES       |
| CHECK  | CONTROL           | SECTION                 | JOB           |
|  | 0101              | 06                      | 095           |
|  |                   |                         | D4            |

- PHASE 7 - REMOVE CANTILEVER TRUSSES**
1. REPEAT CANTILEVER REMOVAL STEPS FOR OPPOSITE SIDE OF THE CHANNEL.
  2. REMOVE FOUNDATION PIERS 29 AND 30.



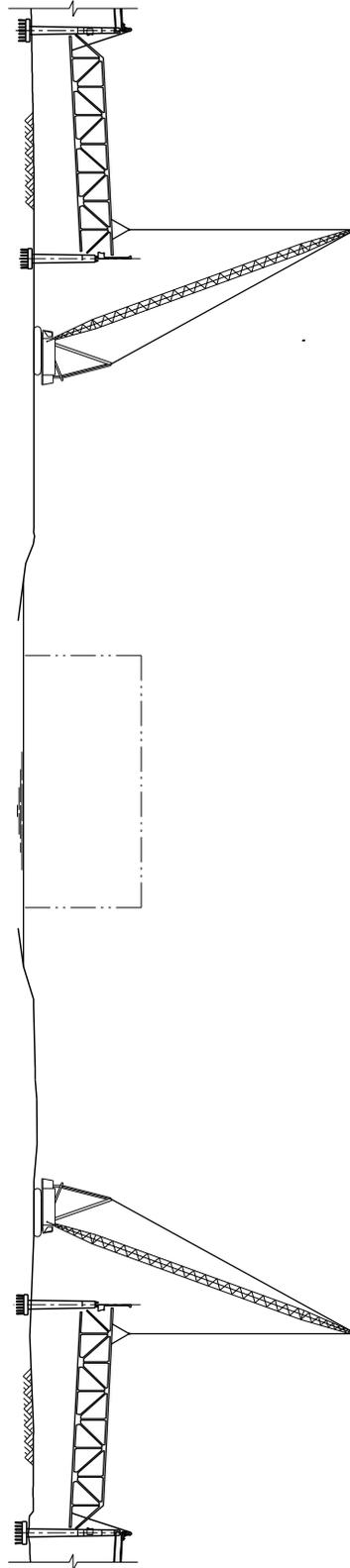
- PHASE 8 - REMOVE TRUSS SPANS**
1. REMOVE DECK FROM REMAINING TRUSS SPANS ON EACH SIDE OF CHANNEL.



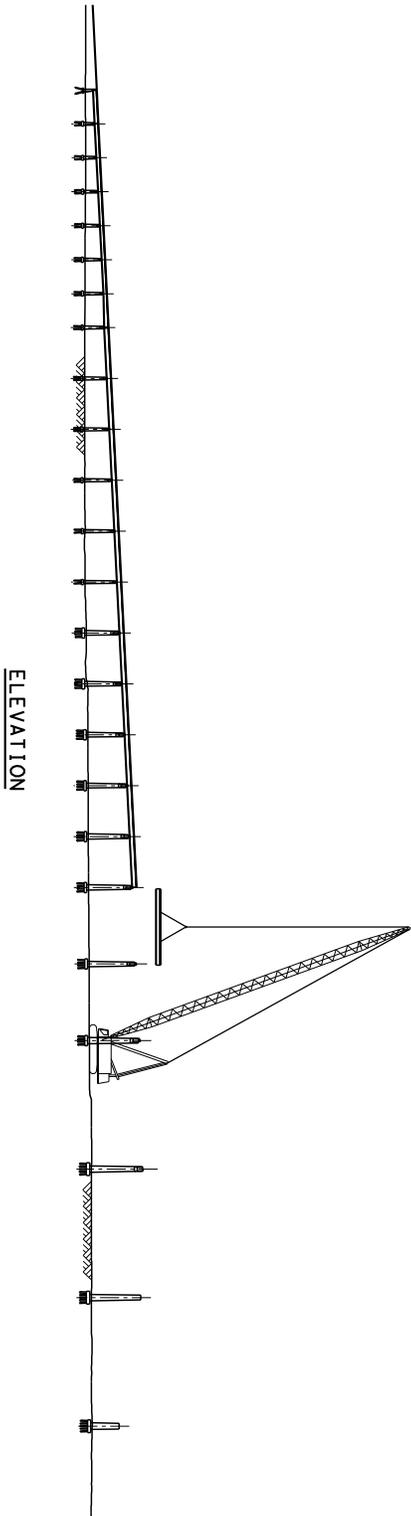
PRELIMINARY NOT FOR CONSTRUCTION, MARCH 2015

|  |                   |  |              |             |
|--|-------------------|--|--------------|-------------|
| <br>A JOINT VENTURE<br>In association with FIGG & ASSOCIATES                          |                   | <br>TYPE: FINAL P&S |              |             |
| <br><b>US 181/71H 37 - HARBOR BRIDGE</b><br>EXISTING BRIDGE<br>DEMOLITION PROCEDURE 5 |                   |  |              |             |
| DESIGNER   | FED. RD. DIV. NO. | FEDERAL AID PROJECT NO.  | SHEET 5 OF 6 | HIGHWAY NO. |
| GRAPHICIST   | X                 | (See Title Sheet)  | X            |             |
| CHECK  | TEXAS             | CRP  | NUJCES       |             |
| CHECK  | CONTROL           | SECTION  | 095          |             |
| CHECK  | 0101              | 06   | 095          |             |
|  |                   |  |              | <b>D5</b>   |

- PHASE 9 - REMOVE TRUSS SPANS**
1. CUT AND LOWER ANCHOR TRUSS BETWEEN PIERS 27 & 28 ON THE NORTH APPROACH AND BETWEEN PIERS 31 & 32 ON THE SOUTH APPROACH.
  2. REMOVE FOUNDATION PIERS 28 AND 31.



- PHASE 10 - REMOVE GIRDER SPANS**
1. DEMOLITION OF BENTS 19 TO 26 AND 32 TO 38 BY MECHANICAL MEANS OR BY USE OF CONTROLLED EXPLOSIVES (TENTATIVE).
  2. DEMOLITION OF BENTS 1 TO 18 AND 39 TO 58 BY MECHANICAL MEANS OR BY USE OF CONTROLLED EXPLOSIVES (TENTATIVE).



**ELEVATION**

|  |                   |                         |               |
|--|-------------------|-------------------------|---------------|
|  |                   |                         |               |
| In association with FIEGS & ACS  |                   | TYPE FINAL PLANS        |               |
|  |                   |                         |               |
| <b>US 181/1H 37 - HARBOR BRIDGE<br/>                 EXISTING BRIDGE<br/>                 DEMOLITION PROCEDURE 6</b> |                   |                         |               |
| DESIGNER   | FED. RD. DIV. NO. | FEDERAL AID PROJECT NO. | SHEET 6 OF 6  |
| GRANTING   | X                 | (See Title Sheet)       | HIGHWAY NO. X |
| CHECK  | STATE             | DISTRICT                | COUNTY        |
| CHECK  | TEXAS             | CRP                     | NUJECES       |
| CHECK  | CONTROL           | SECTION                 | JOB           |
|  | 0101              | 06                      | 095           |
|  |                   |                         | <b>D6</b>     |