HOUSTON SHIP CHANNEL (HSC), TEXAS
EXPANSION CHANNEL IMPROVEMENT PROJECT (ECIP)
PROJECT 11: PACKAGE #7 SEGMENT 3 - BARBOURS CUT
CHANNEL SPILMAN ISLAND BULKHEAD

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<td>C-017</td>
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<td>ENLARGED PROPOSED BULKHEAD CUT-OFF WALL ELEVATIONS (3 OF 2)</td>
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<td>ENLARGED PROPOSED BULKHEAD CUT-OFF WALL ELEVATIONS (4 OF 2)</td>
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NOTE: CONSTRUCTION SEQUENCING PLANS WILL BE ADD TO THE 86% DESIGN SUBMITTAL.

SOLICITATION NO.: W912HY-XX-X-XXXX
CONTRACT NO.: XXXXXX-XX-X-XXXX
ISSUE DATE: AUGUST 2020
VOLUME # 1 OF 1
GENERAL REQUIREMENTS

1. CONTRACTOR SHALL NOT COMMENCE ANY CONSTRUCTION UNTIL THE CONTRACTOR HAS REVIEWED AND AGREED TO ALL APPLICABLE STATE AND LOCAL CODES AND REQUIREMENTS. CERAMIC AND POOL PERMITS FOR THE PROJECT HAVE BEEN OBTAINED.

2. DESIGN AND CONSTRUCTION OF THE PROJECT SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES AND REQUIREMENTS. DRAWINGS AND PLANS FOR THE PROJECT SHALL BE REVIEWED AND APPROVED BY THE OWNER AND ENGINEER.

3. CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL DRAWINGS, CONSTRUCTION, AND SHOP Drawings. All confirmations shall be obtained prior to the work being considered complete. The work shall comply with all applicable state and local codes and requirements. Any confirmations or permits required by state and local agencies shall be obtained prior to the beginning of the work.

4. CONTRACTOR SHALL NOT COMMENCE ANY CONSTRUCTION UNTIL THE CONTRACTOR HAS REVIEWED AND AGREED TO ALL APPLICABLE STATE AND LOCAL CODES AND REQUIREMENTS. CERAMIC AND POOL PERMITS FOR THE PROJECT HAVE BEEN OBTAINED.

SOIL BORINGS

1. FOR GRAPHS, LOCATIONS OF ALL BORINGS, REFER TO SHEET C-002.

2. BORING LOGS SHOWN ON SHEET C-002 HAVE BEEN REVIEWED AND APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL NOT COMMENCE ANY CONSTRUCTION UNTIL THE CONTRACTOR HAS REVIEWED AND AGREED TO ALL APPLICABLE STATE AND LOCAL CODES AND REQUIREMENTS. CERAMIC AND POOL PERMITS FOR THE PROJECT HAVE BEEN OBTAINED.

3. SOIL INVESTIGATION DATA IS PROVIDED FOR THE INFORMATIVE CONVERSION OF THE CONTRACTOR. THE OWNER AND ENGINEER CAN NOT ACCEPT ANY RESPONSIBILITY FOR ANY DECISIONS BASED ON THIS DATA.

4. SOIL INVESTIGATION REPORTS ARE NOT A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT COMMENCE ANY CONSTRUCTION UNTIL THE CONTRACTOR HAS REVIEWED AND AGREED TO ALL APPLICABLE STATE AND LOCAL CODES AND REQUIREMENTS. CERAMIC AND POOL PERMITS FOR THE PROJECT HAVE BEEN OBTAINED.

SHOP DRAWINGS

1. CONTRACTOR SHALL FILL LEVEL AND TRUE LEVELS SHOWN ON ELEVATIONS. ELEVATIONS SHOWN ON SHOP DRAWINGS SHOWN ON SHEET C-002. THE CONTRACTOR SHALL NOT COMMENCE ANY CONSTRUCTION UNTIL THE CONTRACTOR HAS REVIEWED AND AGREED TO ALL APPLICABLE STATE AND LOCAL CODES AND REQUIREMENTS. CERAMIC AND POOL PERMITS FOR THE PROJECT HAVE BEEN OBTAINED.

2. CONTRACTOR SHALL SUBMIT TO THE CONTRACTOR IN THE DESIGN OF THE PROJECT.
**BULKHEAD WALL SHEET PILING**

1. ALL PILING SHALL COMFORM TO SPECIFICATION 35 31 16.20.
2. PERIODIC MEASUREMENTS MUST BE MADE WHEN STABBING PILING TO INSURE PROPER INSTALLATION TOLERANCES. WHEN ADJUSTMENTS IN LENGTH SHALL BE MADE BY HELD PILING, SUCH ADJUSTMENTS SHALL BE MADE BY SELECTING A PILING TO FIT THE ADJUSTMENT NEEDED.
3. CONTRACTOR MAY INITIALLY USE VIBRATORY EQUIPMENT TO DRIVE SHEET PILING TO BREDAL OR TIGHTENING GAP SPACE, WHEN USING VIBRATORY EQUIPMENT INCREMENTAL SEQUENCE DRIVING OF INDIVIDUAL PILES SUCH THAT THE TIP OF ANY SHEET PILE SHALL NOT BE MORE THAN 1 FT BELOW THAT OF ANY ADJACENT SHEET PILE. THE USE OF VIBRATORY EQUIPMENT SHOULD BE DISCONTINUED AND IMPACT FORCES SHOULD BEGIN WHEN THE PENETRATION RATE DUE TO VIBRATORY METHODS EXCEEDS THE RATE DUE TO IMPACT METHODS.
4. WHEN A IMPACT HAMMER IS USED PILES SHALL BE DRIVEN SUCH THAT THE TOP OF THE PILE BEING DRIVEN DOES NOT ADVANCE MORE THAN 4 FT BELOW THAT OF ANY ADJACENT SHEET PILE. WHEN THE PENETRATION RESISTANCE (TO THE PILE BEING DRIVEN) EXCEEDS (5) BLOW/INCH, THE TOP OF THE PILE SHALL NOT ADVANCE MORE THAN 4 FT BELOW THAT OF THE  ADJACENT SHEET PILE.
5. ALL FILE INSTALLATION SHALL BE CONDUCTED WITH THE OWNERS REPRESENTATIVE PRESENT. THE ENGINEER SHOULD BE CONTACTED IF DIFFICULT DRIVING IS ENCOUNTERED.
6. THE COATING SYSTEM SHALL BE APPLIED TO THE LIMITS AS SPECIFIED ON THE COATING SCHEDULE. THE LAST COAT WILL BE APPLIED IN ACCORDANCE WITH THE SCHEDULE. COATING SCHEDULE.

**COATING SCHEDULE**

<table>
<thead>
<tr>
<th>ELEMENT</th>
<th>SPECIFICATION</th>
<th>LIMITS</th>
<th>COAT/LCOLOR</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>PIPE PROTECTION WALL</td>
<td>09 54 56 01</td>
<td>EXTERIOR/</td>
<td>COAL TAR</td>
<td>EPOXY/FOIL</td>
</tr>
<tr>
<td>SHEET PILES</td>
<td></td>
<td>FROM TOP EL.-10'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PIPE PROTECTION WALL</td>
<td>09 54 56 01</td>
<td>ALL AROUND</td>
<td>COAL TAR</td>
<td>EPOXY/FOIL</td>
</tr>
<tr>
<td>SHEET PILES</td>
<td></td>
<td>EXTERIOR/</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FROM TOP EL.-10'</td>
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</tbody>
</table>

**BULKHEAD FILL**

1. THE FILL MATERIAL LANDSIDE OF THE BULKHEAD SHALL BE PLACED IN LIFTS OF 3FT UNFORMLY ALONG THE LENGTH OF BULKHEAD, EXCAVATED fill FROM THE PROJECT SITE SHALL NOT BE USED AS FILL LANDSIDE OF THE BULKHEAD. THE FILL MATERIAL SHALL BE CRUSHED STONE (ANGULAR) FILL AND SHALL MEET THE SPECIFICATIONS SECTION 03 33 66.
2. AREAS IMMEDIATE LANDSIDE OF THE BULKHEAD SHALL BE SLOPED AT 6H:1V FINAL GRADING.
3. TRANSITIONS IN GRADES SHALL BE SMOOTH AND UNIFORM.
4. ALL AREAS WHICH HAVE BEEN FILLED AND AREAS STRIPPED OF EXCAVATING AND PLACING FILL, CONTRACTOR SHALL ENSURE THAT ALL VOIDS ARE BROUGHT TO BE PLACED IN THE EXCAVATION AND SHALL BE COMPACTED AND SHAPED.

**WELDING**

1. ALL WELDS SHALL BE WITH E70XX ELECTRODES.
2. IF THE STEEL MATERIALS DO NOT MEET PREQUALIFIED WELD CRITERIA ACCORDING TO AWS D 1.1, THEN THE WELD FOR THE STEEL MATERIALS BEING WELDED SHALL BE QUALIFIED AND SUBMITTED TO ENGINEER FOR REVIEW.
3. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D-1.1., QUALIFIED AND SUBMITTED TO ENGINEER FOR REVIEW.
4. CONTRACTOR SHALL SUBMIT A LIST OF QUALIFIED WELDERS AND THEIR CERTIFICATION LEVEL PRIOR TO FABRICATION. ALL WELDS ARE FULL PENETRATION, UNLESS SPECIFICALLY NOTED OTHERWISE.
5. MINIMUM SIZE OF FILLET WELD SHALL BE 1/8 INCH. UNLESS NOTED OTHERWISE.
6. ALL WELDS SHALL BE CERTIFIED IN THE OVERHEAD POSITION ACCORDING WITH AWS D 1.1.
7. REFER TO SPECIFICATIONS 05 12 00 03, 38 13 60 03 AND 31 62 10 FOR ADDITIONAL WELDING REQUIREMENTS.

**SITE WORK/EARTHWORK**

1. FILL MATERIALS TO BE USED IN THE CONSTRUCTION SHALL BE APPROVED BY THE ENGINEER OR BETTER CONFORM.
2. ALL MATERIALS TO BE EXCAVATED AND CLEARED TO REMOVE ALL VEGETATION.
3. SITE WORK/EARTHWORK SHALL BE EXECUTED IN ACCORDANCE WITH THE CONTRACTOR'S COATING SCHEDULE.
4. ALL MATERIALS TO BE PLACED FILTER CLOTH. MIRAFI 140N OR EQUIVALENT.
5. ALL AREAS WHICH HAVE BEEN FILLED AND AREAS STRIPPED OF EXCAVATING AND PLACING FILL, CONTRACTOR SHALL ENSURE THAT ALL VOIDS ARE BROUGHT TO BE PLACED IN THE EXCAVATION AND SHALL BE COMPACTED AND SHAPED.

**FINAL GRADING**

1. AREAS IMMEDIATE LANDSIDE OF THE BULKHEAD SHALL BE SLOPED AT 6H:1V TYPICAL OR ANCHOR GRADING ELEVATIONS.
2. TRANSITIONS IN GRADES SHALL BE SMOOTH AND UNIFORM.
3. Grading shall be performed in such a manner that water is not accumulated in any area.
4. All areas which have been filled and areas stripped of excavation and placing fill, contractor shall ensure that all voids are brought to be placed in the excavation and shall be compacted and shaped.
BULKHEAD WALL DESIGN CRITERIA

1. DESIGN LIVE LOADS
   A) CONSTRUCTION PHASE LIVE LOAD (SURCHARGE) BEHIND BULKHEAD SHALL BE LIMITED TO 300-PSF. HEAVY CONSTRUCTION LOADS (I.E. CRANE LOADS, ETC.) SHALL NOT BE PERMITTED WITHIN 20-FT OF THE BULKHEAD.
   B) POST-DREDGE LIVE LOAD SURCHARGE AFTER DREDGING = 125PSF

2. BULKHEAD WALL DESIGN PERFORMANCE IS BASED ON THE FOLLOWING TABLE:

   | From STA | To STA  | Ps (PSF) | TOP OF WALL ELEVATION | LSWE | WSWE | NOMINAL MUDLINE WS ELEVATION | SOIL LS ELEVATION | DESIGN MUDLINE VS ELEVATION | DESIGN RETAINED HEIGHT | NOMINAL SOIL SLOPE | Minimum Bulkhead Wall Section Module
<table>
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<tr>
<td>100+19.32</td>
<td>116+04.15</td>
<td>300</td>
<td>+25.0'</td>
<td>+25.0'</td>
<td>0.0'</td>
<td>+25.0'</td>
<td>+25.0'</td>
<td>+25.0'</td>
<td>+25.0'</td>
<td>+25.0'</td>
<td>3H:1V</td>
</tr>
<tr>
<td>100+19.32</td>
<td>116+04.15</td>
<td>125</td>
<td>+25.0'</td>
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<td>+25.0'</td>
<td>+25.0'</td>
<td>+25.0'</td>
<td>+25.0'</td>
<td>3H:1V</td>
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<tr>
<td>100+19.32</td>
<td>116+04.15</td>
<td>300</td>
<td>+25.0'</td>
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<td>+25.0'</td>
<td>3H:1V</td>
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<td>116+04.15</td>
<td>300</td>
<td>+25.0'</td>
<td>+25.0'</td>
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<td>+25.0'</td>
<td>+25.0'</td>
<td>+25.0'</td>
<td>+25.0'</td>
<td>+25.0'</td>
<td>3H:1V</td>
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<tr>
<th>CONSTRUCTION</th>
<th>OPERATIONAL</th>
<th>CONSTRUCTION</th>
<th>OPERATIONAL</th>
<th>CONSTRUCTION (CANTILEVERED CONDITION)</th>
<th>OPERATIONAL</th>
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<tr>
<td>Minimum Bulkhead Wall Section Module (in^3/ft)</td>
<td>80.1</td>
<td>33.9</td>
<td>34.3</td>
<td>21.3</td>
<td></td>
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<tr>
<td>Minimum Bulkhead Wall Moment of Inertia (in^4/ft)</td>
<td>39320</td>
<td>950</td>
<td>680</td>
<td>520.7</td>
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</tr>
</tbody>
</table>
OVERALL CIVIL SITE KEY PLAN

1. REFER TO GENERAL NOTES ON SHEET G-002.

2. CONTROL POINT: PHA3 (5/8" REBAR WITH CAP SET 3" BELOW GRADE)
   NORTHING: 13815119.815
   EASTING: 3239346.324
   ELEVATION: 19.424' (NAVD88)

GENERAL NOTES

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65% DRAFT
1. REFER TO GENERAL NOTES ON SHEET G-004.
2. REFER TO SHEETS B-001, B-002, B-003, AND B-004 FOR SOIL BORING LOG INFORMATION.

EXISTING CIVIL SITE KEY PLAN

SCALE: 1" = 200'

SEGMENT 3 - BARBOURS CUT CHANNEL, SPILMAN ISLAND BULKHEAD

1. REFER TO GENERAL NOTES ON SHEET G-004.
2. REFER TO SHEETS B-001, B-002, B-003, AND B-004 FOR SOIL BORING LOG INFORMATION.

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2. REFER TO SHEETS B-001, B-002, B-003, AND B-004 FOR SOIL BORING LOG INFORMATION.

GENERAL NOTES

ENLARGED EXISTING CIVIL SITE PLAN (1 OF 4)

SCALE: 1” = 40’

MATCHLINE, SEE DWG C-004

1. REFER TO GENERAL NOTES ON SHEET G-002.
2. REFER TO SHEETS B-001, B-002, B-003, AND B-004 FOR SOIL BORING LOG INFORMATION.
ENLARGED EXISTING CIVIL SITE PLAN (2 OF 4)

1. REFER TO GENERAL NOTES ON SHEET G-003.
2. REFER TO SHEETS B-001, B-002, B-003, AND B-004 FOR SOIL BORING LOG INFORMATION.

GENERAL NOTES

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GENETICS NOTES

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2. REFER TO SHEETS B-001, B-002, B-003, AND B-004 FOR SOIL BORING LOG INFORMATION.

65% REVIEW

PORT OF HOUSTON AUTHORITY

HDR Engineering, INC
TBPELS FirmRegistration No. F-754

DESIGN PREPARED BY:

C90-D13-P11-007
C-005

PROJECT 11
PACKAGE #7
SEGMENT 3 - BARBOURS CUT CHANNEL, SPILLMAN ISLAND BULKHEAD

ENLARGED EXISTING CIVIL SITE PLAN (3 OF 4)

SCALE: 1"=40'
1. REFER TO GENERAL NOTES ON SHEET G-002.
2. REFER TO SHEETS B-001, B-002, B-003, AND B-004 FOR SOIL BORING LOG INFORMATION.

This Document Is Released For The Purpose Of Interim Review Under The Authority Of MICHAEL KRIEBER, P.E., 109274 8/14/20. It Is Not To Be Used For Construction, Bidding, Or Permit Purposes.
GENERAL NOTES
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2. REFER TO SHEETS B-001, B-002, B-003, AND B-004 FOR SOIL BORING LOG INFORMATION.

1. REFER TO GENERAL NOTES ON SHEET G-002.
2. REFER TO SHEETS B-001, B-002, B-003, AND B-004 FOR SOIL BORING LOG INFORMATION.
1. Refer to General Notes on Sheet G-002.
2. Refer to Sheets B-001, B-002, B-003, and B-004 for soil boring log information.
3. Refer to Sheet C-106 for working point station control legend.
1. REFER TO GENERAL NOTES ON SHEET G-002.
2. REFER TO SHEETS B-001, B-002, B-003, AND B-004 FOR SOIL BORING LOG INFORMATION.
3. REFER TO SHEET C-106 FOR WORKING POINT STATION CONTROL LEGEND.
GENERAL NOTES

1. REFER TO GENERAL NOTES ON SHEET G-002.
2. REFER TO SHEETS B-001, B-002, B-003, AND B-004 FOR SOIL BORING LOG INFORMATION.
3. REFER TO SHEET C-106 FOR WORKING POINT STATION CONTROL LEGEND.

STATION CONTROL LEGEND

- BULKHEAD CUT-OFF WALL STATIONING
- ALIGNMENT LINE (CENTERLINE OF PIPE PILES)
- BARBOURS CUT CHANNEL STATIONING
- DAMPA SIDE
- WATERSIDE

PORT OF HOUSTON AUTHORITY

HDR Engineering, INC
TBPELS Firm
Registration No. F-754

DESIGN PREPARED BY:

ENLARGED PROPOSED CIVIL SITE PLAN (4 OF 4)
SCALE: 1"=40'

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