

TDLR # TABS2025013657

CALL BEFORE YOU DIG!



PARTICIPANTS REQUEST
48 HOURS NOTICE BEFORE YOU DIG,
DRILL, OR BLAST - STOP AND CALL
811

THE LONE STAR
NOTIFICATION COMPANY
AT 1-800-669-8344

SHEET INDEX
DESCRIPTION

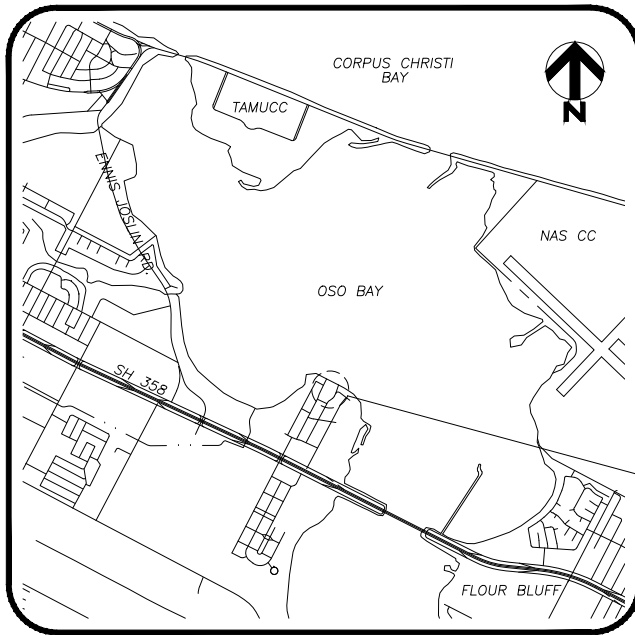
- | SHEET | DESCRIPTION |
|-------|--|
| 1. | COVER SHEET |
| 2. | GENERAL NOTES AND LEGEND |
| 3. | EXISTING CONDITIONS & DEMOLITION PLAN |
| 4. | EXISTING CONDITIONS & DEMOLITION ENLARGED PLAN |
| 5. | ENLARGED SHORELINE IMPROVEMENTS LAYOUT |
| 6. | ROCK GROIN ALIGNMENTS |
| 7. | ABM ALIGNMENTS |
| 8. | ROCK GROIN CROSS SECTIONS 01 |
| 9. | ROCK GROIN CROSS SECTIONS 02 |
| 10. | ABM CROSS SECTIONS 01 |
| 11. | TYPICAL SECTIONS 01 |
| 12. | TYPICAL SECTIONS 02 |
| 13. | SITE PHOTOS |
| 14. | RAMP DETAILS 1 |
| 15. | RAMP DETAILS 2 |
| 16. | RAMP DETAILS 3 |
| 17. | DRAINAGE AREA MAP |
| 18. | ALIGNMENT DATA SHEET |
| 19. | PROPOSED SITE PLAN (STORMWATER AND SIDEWALK) |
| 20. | PROPOSED GRADING PLAN (STORMWATER AND SIDEWALK) |
| 21. | PROPOSED STORMWATER PLAN & PROFILE |
| 22. | COCC CURB, GUTTER & SIDEWALK STANDARD DETAILS |
| 23. | COCC STORMWATER STANDARD DETAILS SHEET 1 OF 3 |
| 24. | COCC STORMWATER STANDARD DETAILS SHEET 2 OF 3 |
| 25. | COCC STORMWATER STANDARD DETAILS SHEET 3 OF 3 |
| 26. | TXDOT STANDARD DETAILS FLARED WINGSFOR 30 DEG SKEW CH-FW-0 |

CORPUS CHRISTI BAY

PROJECT LOCATION
SOUTH BAY PARK
SHORELINE IMPROVEMENTS
CORPUS CHRISTI, TEXAS



GRAPHIC MAP SCALE



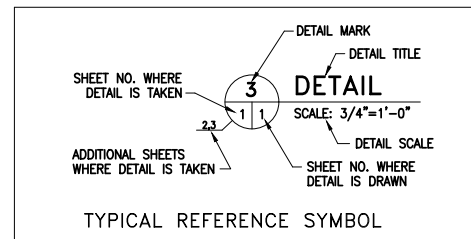
VICINITY MAP
N.T.S

PROJECT LOCATION
SOUTH BAY PARK
SHORELINE IMPROVEMENTS

PLANS FOR
**SOUTH BAY PARK
SHORELINE IMPROVEMENTS**

PROJECT # 23035

PREPARED BY
HDR ENGINEERING INC.



APPROVED: _____
Director of Engineering Services Date

CONSULTANT'S SHEET NO. 00G-01	
100% DESIGN, PRE-NOA PRELIMINARY <small>THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.</small> ENGINEER: DANIEL J. HEILMAN LICENSE NO.: 86936 DATE: 03/10/2026	
FDR TBP/ELS Firm Registration No. F-754 Project No. 10400452	
CITY of CORPUS CHRISTI TEXAS Department of Engineering Services	
90% PRELIMINARY DESIGN REVIEW	INTERIM CHECK PLOT (PRE-FINAL DESIGN, PRE-NOA)
60% PRELIMINARY DESIGN REVIEW	DESCRIPTION
D/JH	D/JH
BY	BY
02/2025	03/10/2026
DATE	DATE
REVISION NO.	REVISION NO.
A	---
10/2024	---
DATE	DATE
SOUTH BAY PARK SHORELINE IMPROVEMENTS	
COVER SHEET	
SHEET 01 of 26	
RECORD DRAWING NO. CP-XXX	
CITY PROJECT # 23035	

PRINTED HALF-SIZE

GENERAL NOTES:

- 1. EXCEPT WHERE OTHERWISE NOTED, AERIAL PHOTOGRAPHY SHOWN ON THESE DRAWINGS WAS OBTAINED BY GOOGLE EARTH PRO, VERSION 7.3.6.9796, DATED JANUARY 2024.
2. U.S. ARMY CORPS OF ENGINEERS PERMIT FOR THIS PROJECT IS INCLUDED IN APPENDIX 1 OF THE SPECIFICATIONS. CONTRACTOR SHALL BE FAMILIAR WITH THE REQUIREMENTS OF THIS PERMIT.
3. GEOTECHNICAL INVESTIGATION WAS PERFORMED DURING SEPTEMBER 2023 BY ROCK ENGINEERING AND TESTING LABORATORY. REFER TO APPENDIX 2 IN THE SPECIFICATIONS FOR GEOTECHNICAL INFORMATION.
4. NOT ALL EXISTING UTILITIES, PIPELINES, STRUCTURES, AND OTHER OBSTRUCTIONS ARE SHOWN. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
5. CONTRACTOR SHALL TAKE MEASURES TO PROTECT EXISTING IMPROVEMENTS ADJACENT TO AND WITHIN THE WORK AREA, INCLUDING CONSTRUCTION ACCESS POINTS. ANY RUTTING OR STRUCTURAL DAMAGE CAUSED BY CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED AT THE EXPENSE OF CONTRACTOR TO THE SATISFACTION OF OWNER. CONTRACTOR SHALL REPAIR AND REPLACE PAVEMENT SECTIONS, STREET SECTIONS, SIDEWALK, FENCES, UTILITY POLES, TREES, AND ANY OTHER EXISTING FEATURES DAMAGED DURING CONSTRUCTION.
6. ALL WORK AREAS SHALL BE SECURED AND SURROUNDED BY CONSTRUCTION BARRICADES, SAFETY FENCE, AND OTHER MEASURES SELECTED BY CONTRACTOR AS NECESSARY TO PROTECT THE PUBLIC. FLAGMEN SHALL DIRECT TRAFFIC AT LOCATIONS WHERE TRUCKS ENTER AND EXIT PUBLIC STREETS.
7. CONTRACTOR SHALL TAKE PRECAUTIONS AND SECURE EQUIPMENT AGAINST ADVERSE WEATHER AND MARINE CONDITIONS.
8. CONSTRUCTION EQUIPMENT SHALL NOT OPERATE ON PRIVATE PROPERTY OR OUTSIDE DESIGNATED WORK LIMITS.
9. INGRESS AND EGRESS OF CONTRACTOR'S VEHICLES SHALL BE KEPT TO A MINIMUM. ALL VEHICLES SHALL USE COMMON PATHWAYS WHENEVER POSSIBLE.
10. CONTRACTOR MAY USE AREA SHOWN ON SHEET 3 FOR STAGING EQUIPMENT. PROPOSED LIMITS OF STAGING AREA AND CONSTRUCTION ACCESS CORRIDOR SHALL BE STAKED BY CONTRACTOR PRIOR TO USE OF STAGING AREA. STAGING AREA(S) SHALL BE DELINEATED BY SILT FENCE AS MAY BE REQUIRED BY STORM WATER POLLUTION PREVENTION PLAN. CONTRACTOR SHALL PROVIDE A CHAIN LINK FENCE TO PROMOTE ADDED SECURITY AND/OR PUBLIC SAFETY. ANY SILT FENCE AND/OR CHAIN LINK FENCE THAT IS CONSTRUCTED SHALL BE PROVIDED AT NO ADDITIONAL COST TO OWNER. UPON COMPLETION OF CONSTRUCTION, STAGING AREA(S) SHALL BE LEFT IN EQUAL OR BETTER CONDITION THAN EXISTED PRIOR TO WORK.
11. CONTRACTOR SHALL PLACE AND MAINTAIN TEMPORARY SEDIMENT CONTROL PADS AT ALL CONSTRUCTION EXITS WHERE TRUCKS WILL ACCESS PUBLIC ROADWAYS. SEDIMENT CONTROL PADS SHALL CONSIST OF 4" TO 8" COARSE AGGREGATE OR OTHER MATERIAL APPROVED BY OAR. PADS SHALL BE REMOVED AT COMPLETION OF WORK AND NATURAL GROUND SHALL BE RESTORED BY GRADING AND SEEDING.
12. REFER TO GENERAL CONDITIONS FOR RESTRICTIONS ON WORKING HOURS. NOISE SHALL BE MINIMIZED FROM 7:00 PM THROUGH 7:00 AM. WORK BEFORE 7:00 AM AND AFTER 7:00 PM SHALL BE PLANNED TO MINIMIZE NOISE FROM BACKUP ALARMS, PROLONGED IDLING OF EQUIPMENT, AND OTHER EQUIPMENT THAT MAY DISTURB THE PUBLIC. LIGHTING SHALL BE KEPT TO A MINIMUM AND SHALL NOT BE DIRECTED TOWARDS ADJACENT HOUSES.
13. EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE BASED ON A COMBINATION OF INFORMATION OBTAINED FROM THE SURVEY, EXISTING CITY BASE MAPS, EXISTING G.I.S. BASE MAPS, AND RECORD DRAWINGS, AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE ACCURACY AND COMPLETENESS OF SUCH INFORMATION IS NOT GUARANTEED. IT IS THE CONTRACTOR'S SOLE AND COMPLETE RESPONSIBILITY TO INVESTIGATE AND LOCATE ALL UNDERGROUND UTILITIES AND STRUCTURES SUFFICIENTLY IN ADVANCE OF TRENCHING AND EXCAVATION OPERATIONS TO AVOID DAMAGING EXISTING UTILITIES OR CAUSING UNNECESSARY DELAYS. THIS INCLUDES EXPOSING UTILITY TIE-INS AND CROSSINGS FOR VERIFICATION PRIOR TO LAYING NEW LINES. THERE SHALL BE NO SEPARATE PAYMENT FOR THE EXPLORATORY EXCAVATIONS, WHICH ARE SUBSIDIARY TO THE COST OF THE RELATED UTILITY OR APPLICABLE FEATURE.
14. WHERE THE CONCRETE WORK IS TO MATCH EXISTING SIDEWALK, THE CONTRACTOR SHALL SAW CUT AND PROVIDE AN EXPANSION JOINT AS SHOWN ON PLANS. IN CASE OF AN EXISTING EXPANSION JOINT LOCATED CLOSE TO PROPOSED TIE-IN POINT, THE CONTRACTOR SHALL EXTEND OR SHORTEN TRANSITIONS TO MATCH EXISTING EXPANSION JOINTS ONLY AS DIRECTED BY THE OAR. WHEN CONSTRUCTING CONCRETE SIDEWALK ADJACENT TO EXISTING CONCRETE STRUCTURES WITH DOWELS OR REBAR TIES, A MINIMUM OF 8" OF THE EXISTING DOWELS OR REBAR SHOULD BE TIED INTO THE PROPOSED SIDEWALK OR CURB. IF 8" INCHES WAS UNABLE TO BE PRESERVED OR IF NO TIE BARS EXISTED, DRILL INTO THE EXISTING CONCRETE SIDEWALK OR CURB A MINIMUM OF 8 INCHES TO ACCOMMODATE #3 TIE BARS. THE TIE BAR SPACING SHALL CONFORM TO THE APPROPRIATE CONCRETE DETAIL REQUIREMENTS SHOWN ON THE COCC STANDARD CURB, GUTTER AND SIDEWALK DETAILS UNLESS DIRECTED OTHERWISE BY THE OAR. ACCOMMODATION OF EXISTING TIE BARS AND DRILLING INTO CONCRETE STRUCTURES IS NOT PAID FOR DIRECTLY BUT IS SUBSIDIARY TO THE PERTINENT BID ITEMS.
15. EXPANSION JOINTS & TRANSVERSE GROOVES SHALL BE MADE STRAIGHT & PERPENDICULAR TO THE PROPOSED CONCRETE WORK.
16. ANY CLEARING, GRUBBING AND SUBSEQUENT DISPOSAL WITHIN THE WORK AREA TO FACILITATE INSTALLATION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR EACH PERTINENT BID ITEM.
17. GROUNDWATER AT THE SITE WILL VARY DEPENDING ON RAINFALL AND SUBSURFACE CONDITIONS. THERE SHALL NOT BE ANY ADDITIONAL PAYMENT OR EXTENSION OF CONTRACT TIME FOR WORKING WITH SATURATED SOILS OR HANDLING GROUNDWATER SEEPAGE DUE TO RAINFALL, RUNOFF AND INFILTRATION.

SURVEY NOTES:

- 1. TOPOGRAPHIC AND BATHYMETRIC SURVEYING WAS PERFORMED BY CIVILCORP DURING 2023 AND 2024. THESE DRAWINGS REPRESENT THE CONDITIONS THAT EXISTED AT THE TIMES OF THE SURVEYS.
2. COORDINATES SHOWN ARE IN U.S. FEET AND REFERENCED TO STATE PLANE, TEXAS SOUTH ZONE, NAD '83.
3. ELEVATIONS SHOWN ARE IN FEET AND REFERENCED TO NAVD '88 (GEOID 18) .
4. THE FOLLOWING SHALL BE APPLIED AS SURVEY CONTROL FOR THE REQUIRED WORK UNDER THIS PROJECT (SEE SHEET 3 FOR LOCATION):

Table with 5 columns: IDENTIFICATION, NORTHING, EASTING, ELEVATION (NAVD '88), LOCATION. Row 1: SO 70, 17,141,863.26', 1,366,816.04', 9, TOP OF CONCRETE SLAB

SURVEY CONTROL EMPLOYED DURING CONSTRUCTION SHALL MATCH CONTROL PUBLISHED IN THESE CONTRACT DOCUMENTS. NO OTHER SURVEY CONTROL SHALL BE APPLIED OR APPLIED WITHOUT ENGINEER'S CONCURRENCE. TO MAINTAIN CONSISTENCY BETWEEN PROJECT DESIGN AND CONSTRUCTED WORK, UPDATES, CORRECTIONS, OR OTHER CHANGES PUBLISHED BY NGS AND/OR OTHER ENTITIES FOR THESE CONTROL MONUMENTS SHALL NOT BE APPLIED WITHOUT WRITTEN CONCURRENCE FROM ENGINEER.

- 5. CONTRACTOR SHALL VERIFY ACCURACY OF SURVEY CONTROL MONUMENTS PRIOR TO CONSTRUCTION. IMMEDIATELY REPORT ANY DISCREPANCIES TO ENGINEER.
6. THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) PROVIDES THE FOLLOWING TIDAL STATISTICS FOR THE PROJECT REGION. CONTRACTOR SHALL BE AWARE THAT ACTUAL DAILY TIDES MAY VARY BY SEVERAL FEET FROM THESE STATISTICAL TIDES DUE TO METEOROLOGICAL FORCES SUCH AS WIND.

Table with 4 columns: DATUM, NOAA 8775792 PACKERY CHANNEL, NOAA 8775296 USS LEXINGTON, ELEVATION, FT. (NAVD). Rows: MHHW (+0.79', +0.82'), MSL (+0.59', +0.78'), MLLW (+0.37', +0.42')

BEACH NOURISHMENT NOTES:

- 1. ALL BEACH FILL MATERIAL SHALL BE PLACED WITHIN THE LINES AND GRADES SHOWN FOR THE BEACH NOURISHMENT AREA AS SHOWN ON SHEET 12
2. ALL BEACH FILL MATERIAL SHALL BE TRANSPORTED TO THE PROJECT SITE IN TRUCKS. DELIVERY BY BARGES IS NOT PERMITTED.
3. THE FINISHED BEACH SURFACE SHALL BE SMOOTHLY AND UNIFORMLY GRADED AND DRESSED TO ELIMINATE HUMPS AND DEPRESSIONS. DRESSING THE FILL BELOW THE WATER LINE IS NOT REQUIRED. CONSTRUCTION TOLERANCE FOR BEACH NOURISHMENT CREST ELEVATION IS +/- 0.2 FT.
4. REFER TO SHEET 12 FOR BEACH NOURISHMENT CONSTRUCTION TEMPLATE.

STORM WATER:

- 1. ALL CURB INLETS SHALL HAVE A 5' THROAT, UNLESS NOTED OTHERWISE.
2. ALL STORM WATER PIPE SHALL BE CLASS III REINFORCED CONCRETE PIPE WITH TYPE B WALL, TONGUE AND GROOVE JOINTS PER ASTM C76.
3. TIES OR CONNECTIONS OF PROPOSED STORM WATER LINES TO EXISTING STRUCTURES SHALL NOT BE PAID FOR DIRECTLY BUT CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS.
4. ALL STORM WATER LINE JUNCTIONS SHALL BE CONSTRUCTED UTILIZING CITY OF CORPUS CHRISTI STANDARD MANHOLES OR INLETS, AS SHOWN ON THE PLAN SHEETS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING STORM WATER DRAINAGE BETWEEN COMPLETED SECTIONS AND EXISTING SECTIONS DURING CONSTRUCTION OPERATIONS.
6. THE SEDIMENT AND STORM WATER POLLUTION CONTROL MEASURES SHALL CONSIST OF USING THE BID ITEM "SILT FENCE" AS SHOWN ON THE PLANS AND DETAILS. IF INLETS AND MANHOLES ARE BUILT IN STAGES, SILT FENCE SHALL BE PLACED AROUND THE STRUCTURE, ONCE IN PLACE SILT FENCE MUST REMAIN IN PLACE UNTIL REMOVAL IS APPROVED BY OAR.
7. ALL SWPPP BMP'S SHALL REMAIN IN PLACE THROUGHOUT THE PROJECT DURATION, AS REQUIRED BY THE TCEQ TPDES GENERAL PERMIT TXR150000. HOWEVER, IN CASE OF DAMAGING FLOOD DUE TO SIGNIFICANT RAIN EVENT, THE CONTRACTOR SHALL NOTIFY THE OAR IMMEDIATELY AND SHALL TEMPORARILY REMOVE, IF SO DIRECTED BY THE OAR, ANY SWPPP BMP MATERIALS USED THAT RESTRICT PROPER DRAINAGE WITHIN AND SURROUNDING PROJECT LIMITS. THIS WORK SHALL NOT BE PAID FOR DIRECTLY BUT CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS
8. THE CITY OF CORPUS CHRISTI RESERVES THE RIGHT TO DIRECT THE CONTRACTOR TO REMOVE ALL SILT FENCE AND/OR SWPPP ITEMS IN ANTICIPATION OF A SIGNIFICANT RAIN EVENT. FOLLOWING THIS EVENT THE CONTRACTOR WILL BE RESPONSIBLE TO RE-INSTALL ALL DAMAGED AND/OR REMOVED ITEMS. THIS WORK WILL NOT BE PAID FOR DIRECTLY BUT CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS.
9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE DRAINAGE DURING ALL PHASES OF CURB INLET INSTALLATION UNTIL FINAL HMAC SURFACE IS PLACED.
10. CEMENT STABILIZED BACKFILL IS NOT A PAY ITEM, AND SHALL BE SUBSIDIARY TO THE APPROPRIATE BID ITEMS.
11. ALL INCOMPLETE STORM WATER INLETS LEFT OVERNIGHT SHALL BE ENCLOSED WITH ORANGE SAFETY FENCE.
12. PIPE JOINTS FOR STORM DRAINAGE PIPE ON THIS PROJECT SHALL BE WRAPPED. THE WRAP SHALL BE AT LEAST 2 FEET WIDE AND SHALL BE CENTERED ON EACH JOINT. GEOTEXTILE FOR WRAPPING JOINTS SHALL BE CLASS 1 GEOTEXTILE FOR SUBSURFACE DRAINAGE WITH AN AVERAGE OPENING SIZE, AOS, OF .22 MM. AND IN ACCORDANCE ASHTO M288.
13. THE USE OF COLLARS FOR STORM WATER TIE INS ARE CONSIDERED SUBSIDIARY.

RAMP NOTES:

GENERAL CONSTRUCTION NOTES:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS, SHORING AND TEMPORARY BRACING. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKERS DURING CONSTRUCTION.
A. DO NOT PLACE CONSTRUCTION MATERIALS OR OTHER CONSTRUCTION LOADS ON THE STRUCTURE SUCH THAT THE LOADS PLACED EXCEED THE CAPACITY OF STRUCTURE. THE RAMP STRUCTURE IS DESIGNED FOR A 100 PSF LIVE LOAD.
B. THE FULL STRUCTURAL CAPACITY OF MANY STRUCTURAL MEMBERS IS NOT REALIZED UNTIL STRUCTURAL ASSEMBLY IS COMPLETE. THE RAMP BEAMS REQUIRE TEMPORARY BRACING UNTIL THE SLAB HAS BEEN IN PLACE FOR AT LEAST 3 DAYS.
C. PROVIDE TEMPORARY BRACING AND GUYING TO PROVIDE STABILITY AND RESIST ALL LOADS TO WHICH THE PARTIALLY COMPLETE STRUCTURE MAY BE SUBJECTED, INCLUDING ERECTION EQUIPMENT AND ITS OPERATION. ADEQUACY OF TEMPORARY BRACING AND GUYING FOR THIS PURPOSE IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

CONCRETE AND REINFORCING:

- 1. VERTICAL FACES OF PIER CAPS, GRADE BEAMS, AND PILASTERS SHALL BE FORMED EXCEPT WHERE NOTED OTHERWISE.
2. LOCATION OF CONSTRUCTION JOINTS OR POUR JOINTS SHALL BE AS INDICATED ON APPROVED SHOP DRAWINGS.
3. ALL CONCRETE SHALL BE VIBRATED DURING PLACEMENT.
4. NO STAKES, STEEL OR WOOD SHALL BE PERMITTED IN ANY CONCRETE POUR. SUSPEND FORMS FROM ABOVE GRADE.
5. ANCHOR RODS, DOWELS, REINFORCING STEEL, INSERTS, ETC., SHALL BE SECURELY TIED IN PLACE PRIOR TO POURING CONCRETE. CONCRETE BLOCKS ONLY SHALL BE USED TO SUPPORT REINFORCING OFF GRADE.
6. ALL REINFORCEMENT SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI. TOP BARS IN BEAMS AND SLABS SHALL BE SPLICED AT MIDSPAN BETWEEN SUPPORTS, UNO. BOTTOM BARS IN BEAMS AND SLABS SHALL BE SPLICED AT SUPPORTS, UNO.
7. CORING OF SLABS, BEAMS, AND COLUMNS IS NOT PERMITTED. PROVIDE SLEEVES FOR ALL PENETRATIONS PRIOR TO PLACING CONCRETE.
8. REQUIRED SUBMITTALS FOR CONCRETE AND REINFORCING LISTED BELOW. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR THESE SUBMITTALS.

- CONCRETE MIX DESIGNS
• PIER REPORTS
• PIER REINFORCING
• PIER REINFORCING-WALLS AND SLAB
• RAMP REINFORCING
• STEEL EMBEDS
• HANDRAIL SUBMITTAL WITH CALCULATIONS (DELEGATED DESIGN)
• PENETRATIONS THROUGH STRUCTURE
• PROPOSED CONSTRUCTION JOINT LOCATIONS (POUR SEQUENCING)

CONCRETE EXPOSURE CLASSES: FO, S1, W2 & C2

CONCRETE MIX DESIGN REQUIREMENTS:

CEMENT TYPE: II (ASTM C150)
MINIMUM f'c: 5000 PSI
MAXIMUM w/cm: 0.40
MAXIMUM WATER SOLUBLE CHLORIDE ION CONTENT: 0.15
AIR CONTENT: 4.5%
MAXIMUM AGGREGATE SIZE: 1 IN
MINIMUM CONCRETE SLUMP FOR PIERS: 5-7 IN
MINIMUM CONCRETE SLUMP FOR BEAMS/SLABS: 4-6 IN
CLEAR COVER:
SLABS:
BOTTOM= 2IN
SIDES= 2IN
TOP= 1 1/2IN

BEAMS:
BOTTOM= 3IN
SIDES= 3IN
TOP= 2IN

PIER:
TOP, BOTTOM & SIDES= 3IN

Table with 4 columns: ITEM, DESCRIPTION, UNIT, ESTIMATED. Includes sections for BASE BID, PART A - GENERAL, PART B - ACCESSIBILITY IMPROVEMENTS, PART C - STORM WATER IMPROVEMENTS, and PART D - SHORELINE IMPROVEMENTS.

LEGEND:

Legend table mapping symbols to descriptions: SURVEY CONTROL POINT, EXISTING SPOT ELEVATION, FT., SOIL BORING, ELEVATION, STAGING AREA POINTS, EXISTING LIGHT POLE, APPROXIMATE EXISTING GRADE, CONSTRUCTION ACCESS AND WORK BOUNDARY, EXISTING WATER LINE, EXISTING GAS LINE, EXISTING TELEPHONE LINE, EXISTING SANITARY SEWER LINE, EXISTING STORM DRAIN, EXISTING OVERHEAD ELECTRICAL LINE, ELEVATION CONTOURS, FEMA VELOCITY ZONE, TEMPORARY SILT FENCE, PROPOSED STORM DRAIN, ABM (SECTION), CONSTRUCTION ACCESS ROUTE, EXISTING GRADE, BEACH NOURISHMENT PLACEMENT AREA, STAGING AREA, GRADED RIPRAP, ARTICULATED BLOCK MATS, EXISTING WALKWAY, NEW WALKWAY, GROIN CAP, DEMOLITION AND REMOVAL, EXCAVATION, SAND FILL (BEACH NOURISHMENT), FILL, ARTICULATING BLOCK MAT, ALTERNATE, APPROXIMATE, CONTROL JOINT, CORRUGATED METAL PIPE, CONTINUOUS, DOWEL, ELEVATION, ELEVATION, EACH WAY, GRADED RIPRAP, HORIZONTAL, MINIMUM, NOT IN CONTRACT, NOT TO SCALE, OWNER'S AUTHORIZED REPRESENTATIVE, REINFORCING, TOP & BOTTOM, TOP OF CONCRETE, TYPICAL.

CONSULTANT'S SHEET NO.

00G-02

100% DESIGN, PRE-NOA PRELIMINARY
THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.
ENGINEER: DANIEL J. HILLMAN
LICENSE NO.: 86936
DATE: 03/10/2026



CITY OF CORPUS CHRISTI TEXAS
Department of Engineering Services

SOUTH BAY PARK SHORELINE IMPROVEMENTS
GENERAL NOTES AND LEGEND

SHEET 02 of 26
RECORD DRAWING NO.

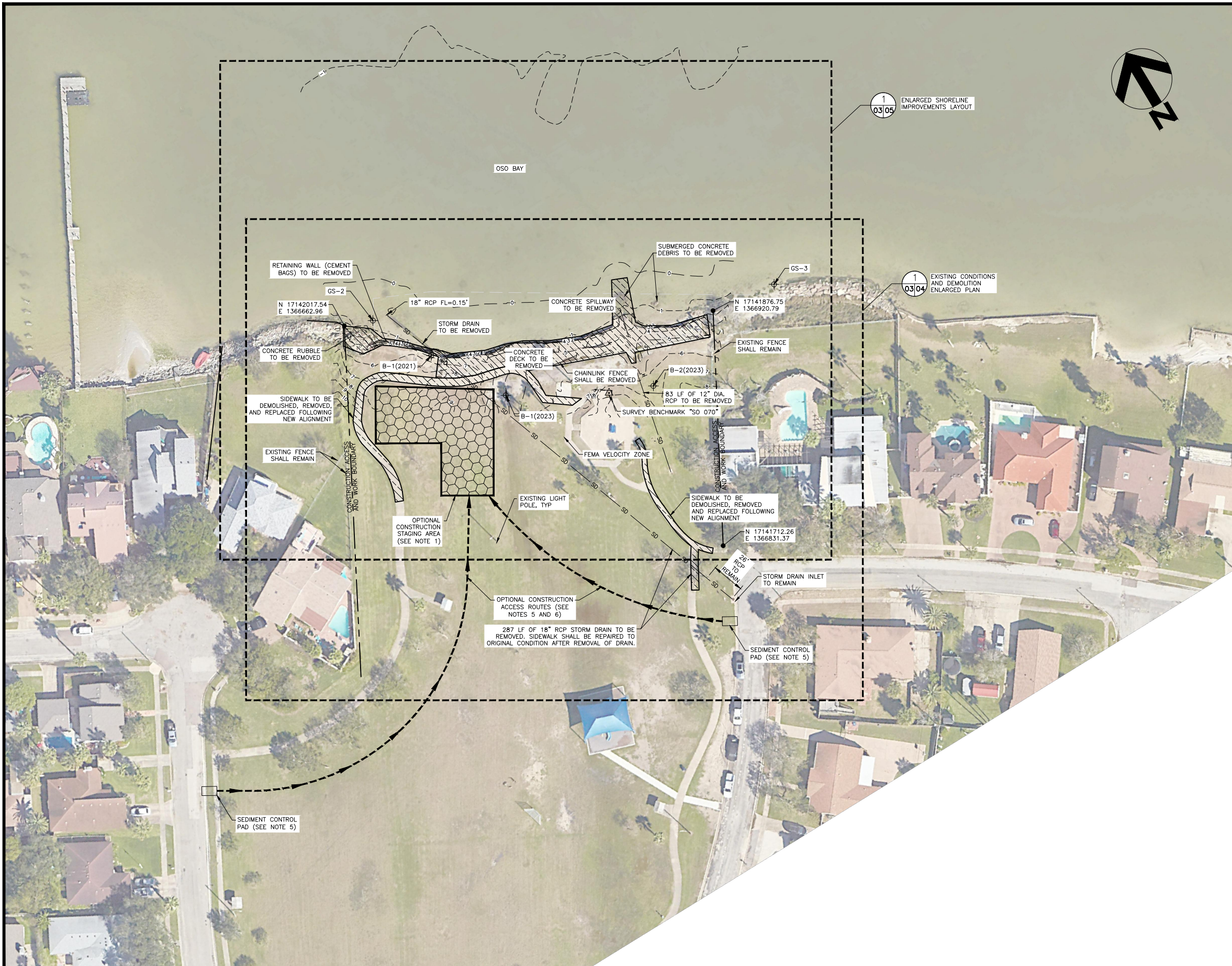
CP-XXX

CITY PROJECT #23035

PRINTED HALF-SIZE

UPDATED: 3/10/2026

UPDATED: 3/10/2026

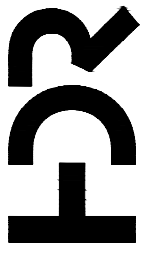



1
-	-
EXISTING CONDITIONS AND DEMOLITION PLAN
SCALE: 1" = 40'

- NOTES:
1. CONTRACTOR MAY USE OPTIONAL CONSTRUCTION STAGING AREA SHOWN ON THIS SHEET. REFER TO NOTES ON SHEET 2 FOR STAGING AREA AND CONSTRUCTION ACCESS CORRIDOR REQUIREMENTS.
 2. DEMOLISH, REMOVE, AND DISPOSE EXISTING CONCRETE RUBBLE, SLABS, PIPES, TIE-BACK RODS, PVC PIPE, BRICK, AND OTHER DEBRIS ALONG THE SHORELINE WITHIN THE LIMITS OF THE REQUIRED WORK. REFER TO SPECIFICATION SECTION 02 10 80 (REMOVING ABANDONED STRUCTURES) FOR ADDITIONAL REQUIREMENTS.
 3. PLACE SURPLUS AND IMPORTED SOIL AS FILL IN ANY LOW AREAS, RUTS, OR DEPRESSIONS LEFT AFTER DEMOLITION AND REMOVAL OF DESIGNATED FEATURES.
 4. ALL DISTURBED GROUND SHALL BE SEEDED AT COMPLETION OF CONSTRUCTION.
 5. STAKE CONSTRUCTION ACCESS AND WORK BOUNDARY FOR REVIEW BY ENGINEER PRIOR TO CONSTRUCTION. STAKES SHALL BE MAINTAINED THROUGH DURATION OF CONSTRUCTION. REFER TO SHEET 2 FOR REQUIREMENTS FOR TEMPORARY SEDIMENT CONTROL PADS AT CONSTRUCTION EXITS.
 6. ANY DAMAGE CAUSED BY CONTRACTOR TO EXISTING CURBS, SIDEWALKS, TREES, AND OTHER EXISTING IMPROVEMENTS ALONG CONSTRUCTION ACCESS ROUTES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE. REGRADE AND SEED ANY RUTS CREATED ON NATURAL GROUND.

BORING LOCATIONS		
POINT NO.	NORTHING	EASTING
B-1(2021)	17141961.58	1366710.14
B-1(2023)	17141903.88	1366744.61
B-2(2023)	17141849.82	1366849.18
GS-2	17142009.37	1366684.58
GS-3	17141869.68	1366973.19

0 40' 80'
PRINTED HALF-SIZE

CONSULTANT'S SHEET NO. 01C-01		100% DESIGN, PRE-NOA PRELIMINARY		THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES. ENGINEER: DANIEL J. HEILMAN LICENSE NO.: 86936 DATE: 03/10/2026	
INTERIM CHECK PLOT (PRE-FINAL DESIGN, PRE-NOA)				TBPELS Firm Registration No. F-754 Project No. 10400452	
REVISION NO.	DATE	DESCRIPTION	 CITY OF CORPUS CHRISTI TEXAS Department of Engineering Services		
90% PRELIMINARY DESIGN REVIEW	02/2025		SOUTH BAY PARK SHORELINE IMPROVEMENTS		
60% PRELIMINARY DESIGN REVIEW	10/2024		EXISTING CONDITIONS AND DEMOLITION PLAN		
REVISION NO.	DATE	DESCRIPTION	SHEET 03 of 26		
A			RECORD DRAWING NO. CP-XXX		
B			CITY PROJECT #23035		

UPDATED: 3/10/2026

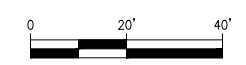


NOTES:

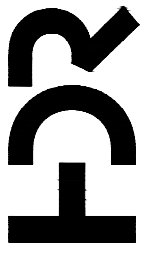

1. CONTRACTOR MAY USE OPTIONAL CONSTRUCTION STAGING AREA SHOWN ON THIS SHEET. REFER TO NOTES ON SHEET 02 FOR STAGING AREA AND CONSTRUCTION ACCESS CORRIDOR REQUIREMENTS. PLACE BLOCK SODDING TO RESTORE TURF WITHIN STAGING AREA AFTER COMPLETION OF SITE WORK.
2. CONTRACTOR SHALL DEMOLISH, REMOVE, AND DISPOSE EXISTING CONCRETE RUBBLE, SLABS, PIPES, TIE-BACK RODS, PVC PIPE, BRICK, AND OTHER DEBRIS ALONG THE SHORELINE WITHIN THE LIMITS OF THE REQUIRED WORK. REFER TO SPECIFICATION SECTION 02 10 80 (REMOVING ABANDONED STRUCTURES) FOR ADDITIONAL REQUIREMENTS.
3. WHERE OPTION TO ABANDON STORM DRAIN IN-PLACE IS STATED ON DRAWINGS, ABANDONED SECTION SHALL BE PLUGGED IN ACCORDANCE WITH SPECIFICATION 02 20 20 (EXCAVATION AND BACKFILL FOR UTILITIES).
4. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ELECTRICAL UTILITY OWNER FOR TEMPORARY DISCONNECTION AND RECONNECTION OF ELECTRICITY AT LIGHT POLE.

STAGING AREA POINTS		
POINT NO.	NORTHING	EASTING
SA-1	17141924.44	1366636.20
SA-2	17141963.65	1366659.54
SA-3	17141912.77	1366738.63
SA-4	17141840.58	1366695.26
SA-5	17141862.06	1366659.50
SA-6	17141897.79	1366680.97

1
03 04 EXISTING CONDITIONS AND DEMOLITION ENLARGED PLAN
SCALE: 1" = 20'



PRINTED HALF-SIZE

CONSULTANT'S SHEET NO. 01C-02	
100% DESIGN, PRE-NOA PRELIMINARY <small>THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.</small> ENGINEER: DANIEL J. HILLMAN LICENSE NO.: 86936 DATE: 03/10/2026	
 TBPELS Firm Registration No. F-754 Project No. 10400452	
 CITY OF CORPUS CHRISTI TEXAS Department of Engineering Services	
SOUTH BAY PARK SHORELINE IMPROVEMENTS EXISTING CONDITIONS AND DEMOLITION ENLARGED PLAN	
SHEET 04 of 26 RECORD DRAWING NO. CP-XXX CITY PROJECT #23035	
INTERIM CHECK PLOT (PRE-FINAL DESIGN, PRE-NOA) D/JH 03/10/2026 DATE -- REVISION NO. -- DATE	DESCRIPTION 90% PRELIMINARY DESIGN REVIEW 60% PRELIMINARY DESIGN REVIEW DESIGN REVIEW

UPDATED: 3/10/2026



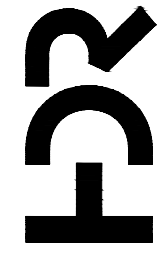
NOTES:

1. REFER TO NOTES ON SHEET 02.
2. REFER TO SHEET 20 FOR SITE GRADING REQUIREMENTS.
3. PLACE TIMBER MATS, EARTHEN PAD, OR OTHER TEMPORARY MEASURES TO PROTECT ABM REVETMENT FROM ANY HEAVY EQUIPMENT THAT CROSSES OVER REVETMENT DURING CONSTRUCTION. ANY DAMAGE TO ABM REVETMENT CAUSED BY CONTRACTOR SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.

CONSULTANT'S SHEET NO.

02C-01

100% DESIGN, PRE-NOA PRELIMINARY
 THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.
 ENGINEER: DANIEL J. HELLMAN
 LICENSE NO.: 86936
 DATE: 03/10/2026



FCR Firm
 Registration No. F-754
 Project No. 10400452

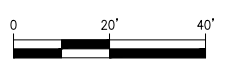


CITY OF CORPUS CHRISTI
 TEXAS
 Department of Engineering Services

SOUTH BAY PARK
 SHORELINE IMPROVEMENTS

ENLARGED SHORELINE
 IMPROVEMENTS LAYOUT

REVISION NO.	DATE	BY	DESCRIPTION
1	03/10/2026	DJH	INTERIM CHECK PLOT (PRE-FINAL DESIGN, PRE-NOA)
2	02/2025	DJH	90% PRELIMINARY DESIGN REVIEW
3	10/2024	DJH	60% PRELIMINARY DESIGN REVIEW



PRINTED HALF-SIZE

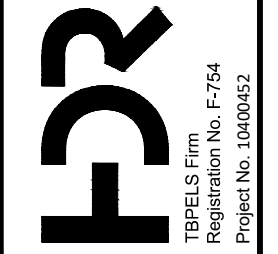
1
 03 05 ENLARGED SHORELINE IMPROVEMENTS LAYOUT
 SCALE: 1" = 20'

SHEET 05 of 26
 RECORD DRAWING NO.
 CP-XXX
 CITY PROJECT #23035

NOTES:
1. REFER TO NOTES ON SHEET 02.

CONSULTANT'S SHEET NO.
03C-01

100% DESIGN, PRE-NOA PRELIMINARY
THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.
ENGINEER: DANIEL J. HELLMAN
LICENSE NO.: 86936
DATE: 03/10/2026

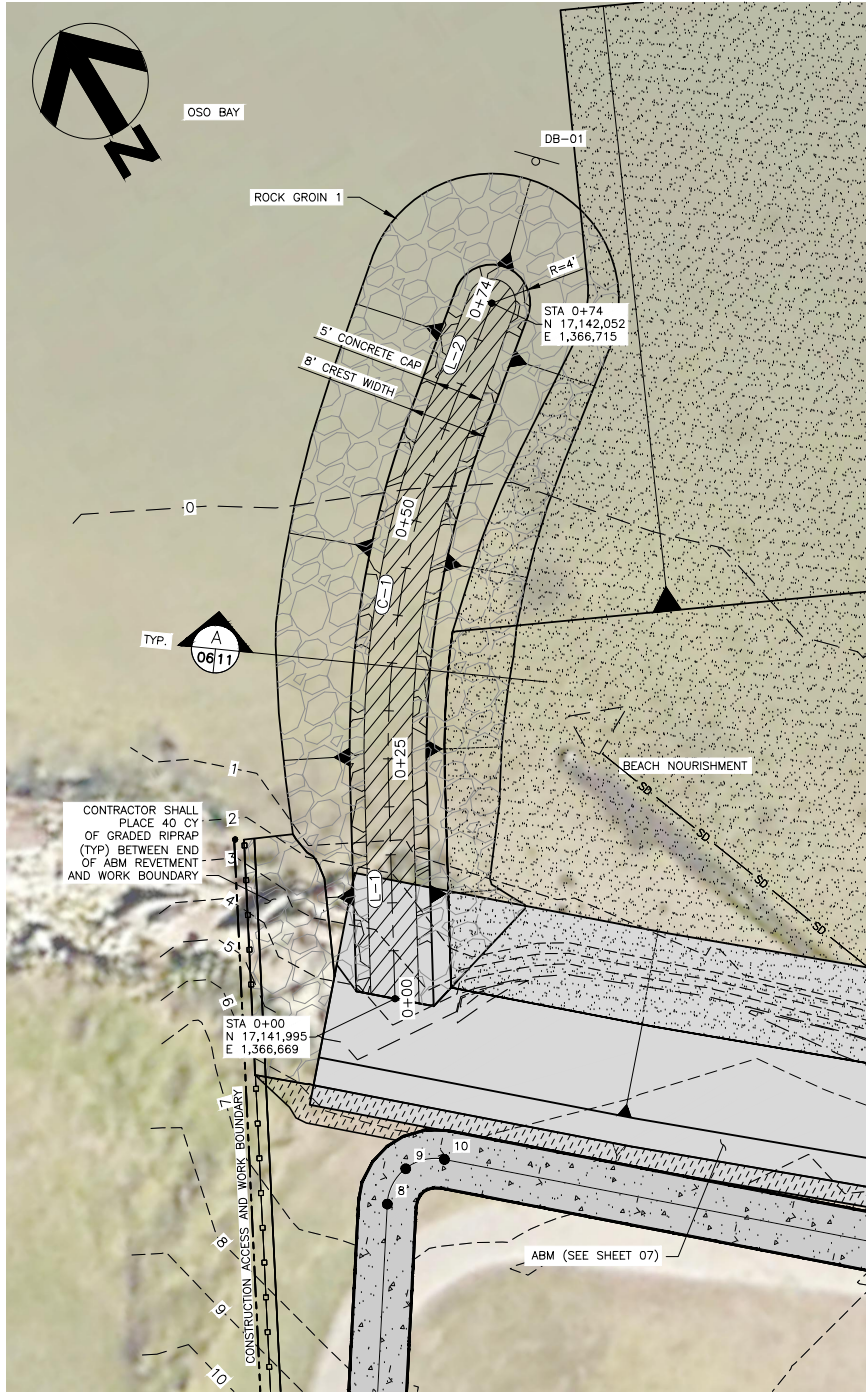


CITY OF CORPUS CHRISTI TEXAS
Department of Engineering Services
Registration No. F-754
Project No. 10400452

SOUTH BAY PARK SHORELINE IMPROVEMENTS
ROCK GROIN ALIGNMENTS

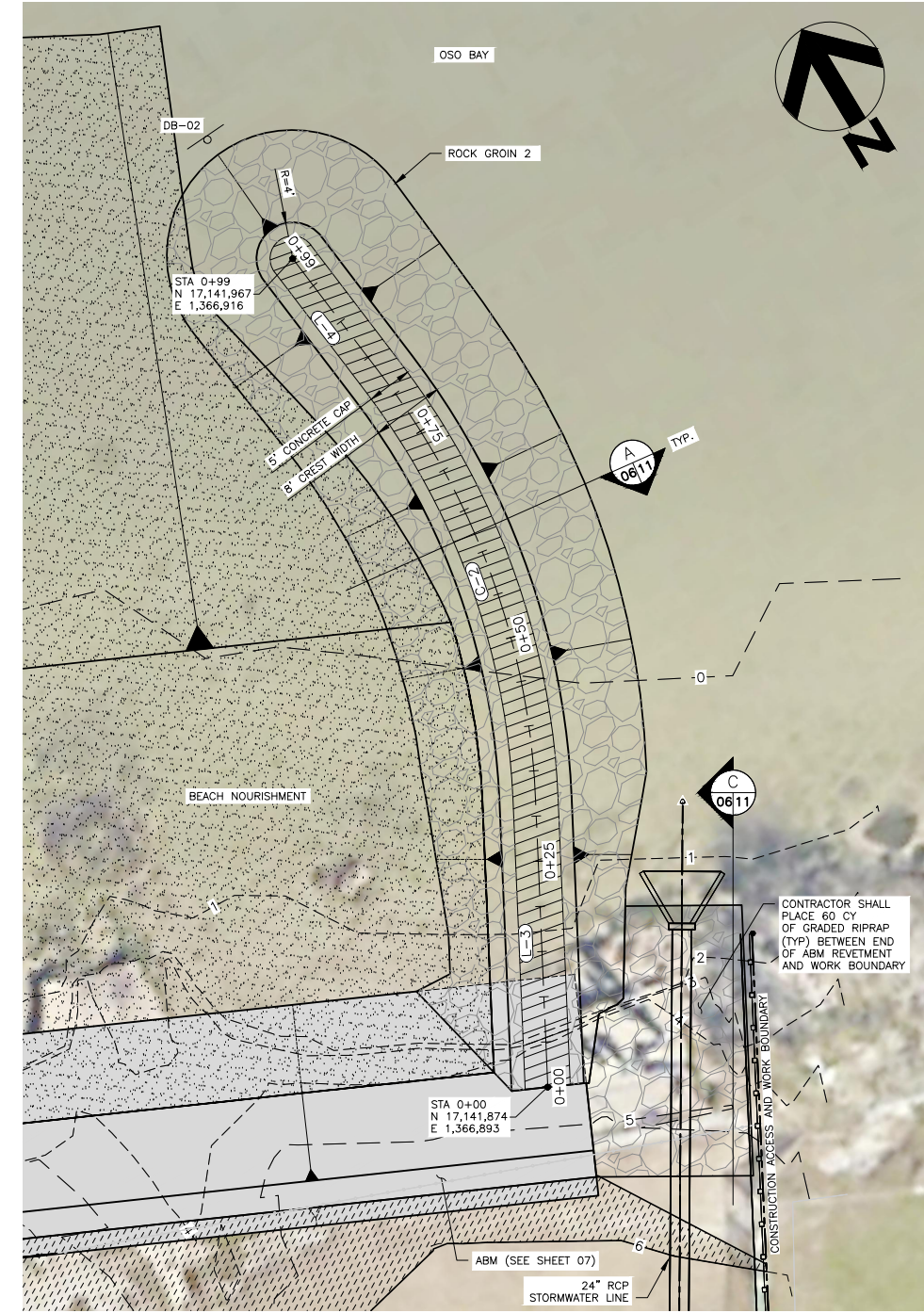
SHEET 06 of 26
RECORD DRAWING NO. CP-XXX
CITY PROJECT #23035

REVISION NO.	DATE	DESCRIPTION
05/06	03/10/2026	INTERIM CHECK PLOT (PRE-FINAL DESIGN, PRE-NOA)



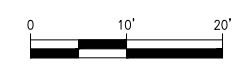
1 ROCK GROIN 1 ALIGNMENT
SCALE: 1" = 10'

ROCK GROIN 1 BASELINE								
NUMBER	PI STA	START STATION	END STATION	LENGTH	RADIUS	LINE/CHORD DIRECTION	START NORTHING	END NORTHING
L-1	NA	0+00	0+23	23'	NA	N29°17'28"E	17,141,995 1,366,669	17,142,015 1,366,680
C-1	0+42	0+23	0+61	38'	97.50'	N40°22'56"E	17,142,015 1,366,680	17,142,043 1,366,704
L-2	NA	0+61	0+74	13'	NA	N51°28'24"E	17,142,043 1,366,704	17,142,052 1,366,715



2 ROCK GROIN 2 ALIGNMENT
SCALE: 1" = 10'

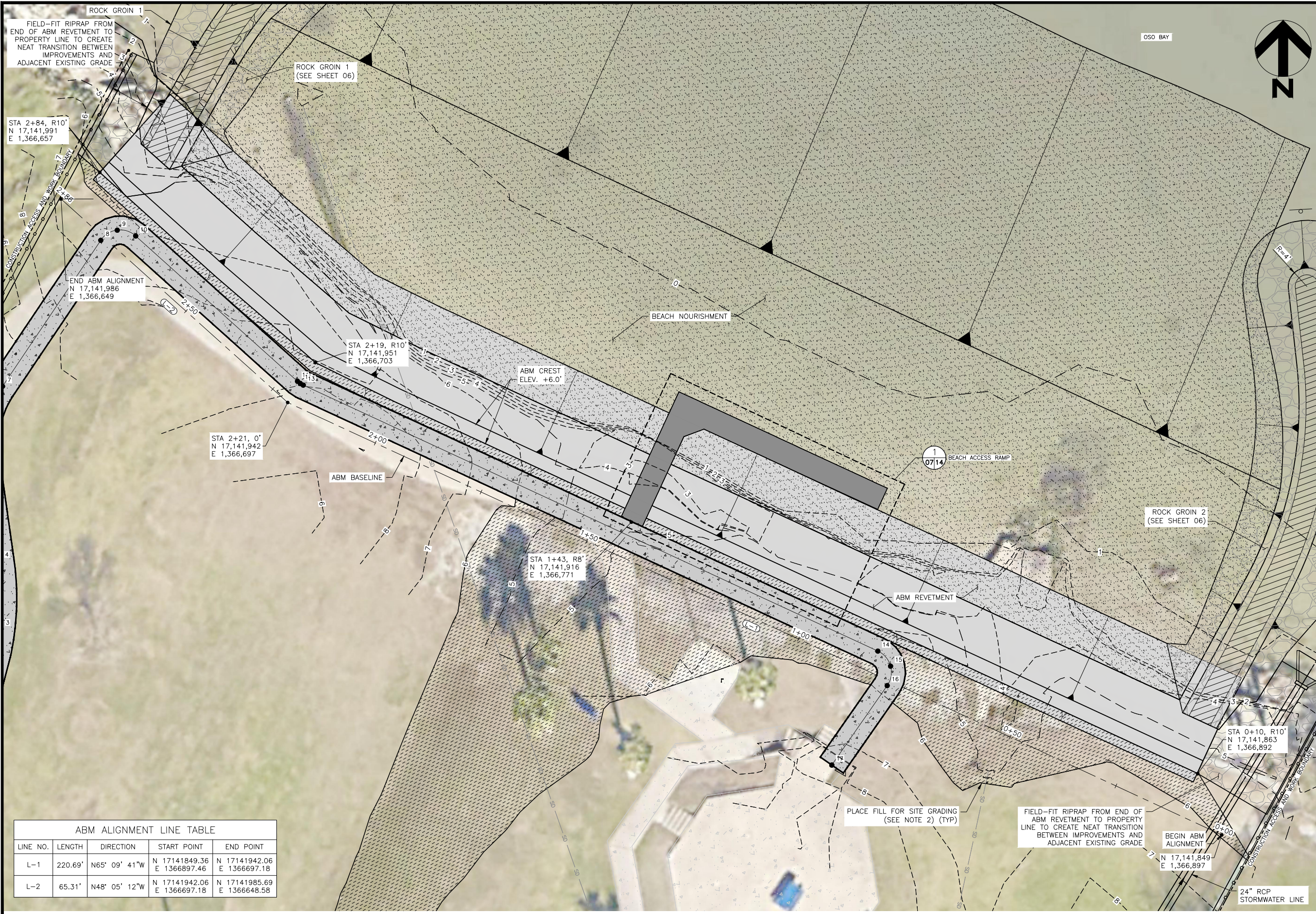
ROCK GROIN 2 BASELINE								
NUMBER	PI STA	START STATION	END STATION	LENGTH	RADIUS	LINE/CHORD DIRECTION	START NORTHING	END NORTHING
L-3	NA	0+00	0+32	32'	NA	N28°34'32"E	17,141,874 1,366,893	17,141,902 1,366,908
C-2	0+58	0+32	0+82	50'	83'	N11°08'04"E	17,141,902 1,366,908	17,141,950 1,366,918
L-4	NA	0+82	0+99	17'	NA	N06°18'24"W	17,141,950 1,366,918	17,141,967 1,366,916



PRINTED HALF-SIZE

UPDATED: 3/10/2026

UPDATED: 3/10/2026

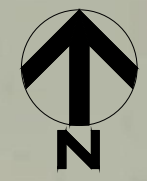


ABM ALIGNMENT LINE TABLE				
LINE NO.	LENGTH	DIRECTION	START POINT	END POINT
L-1	220.69'	N65° 09' 41"W	N 17141849.36 E 1366897.46	N 17141942.06 E 1366697.18
L-2	65.31'	N48° 05' 12"W	N 17141942.06 E 1366697.18	N 17141985.69 E 1366648.58

- NOTES:
- REFER TO NOTES ON SHEET 02.
 - REFER TO SHEET 19 FOR GRADING PLAN.

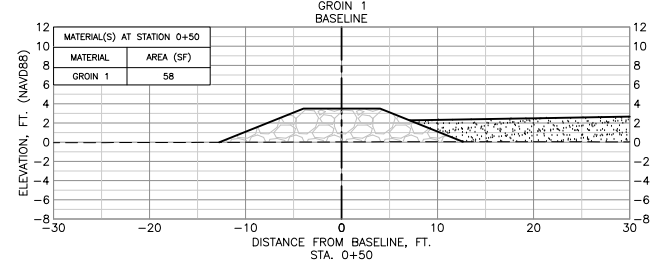
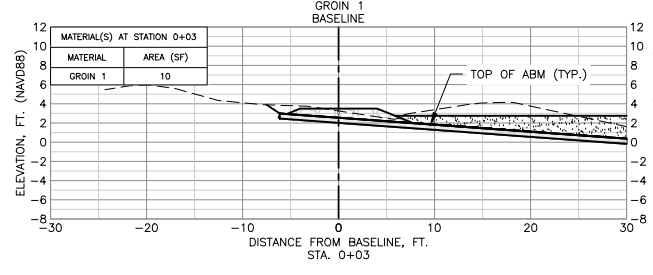
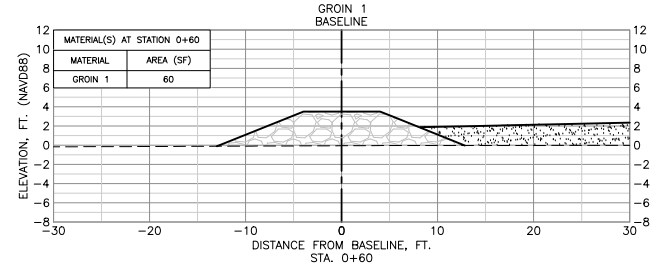
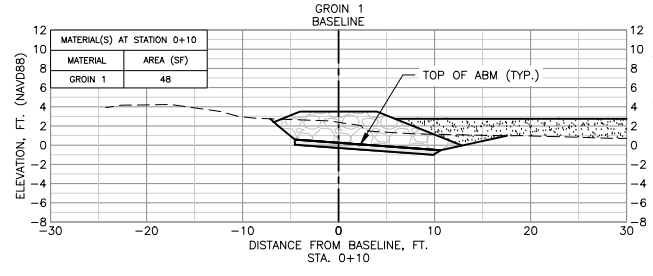
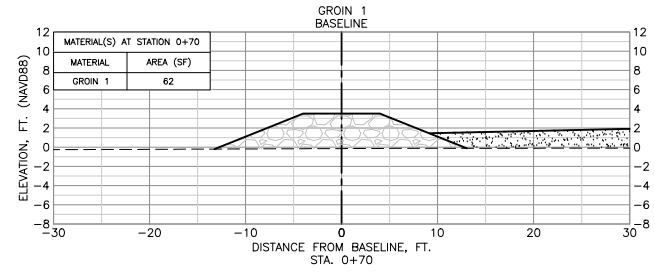
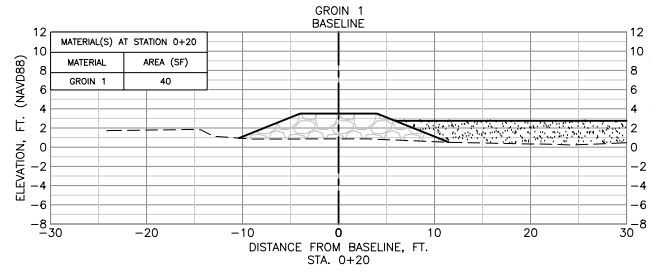
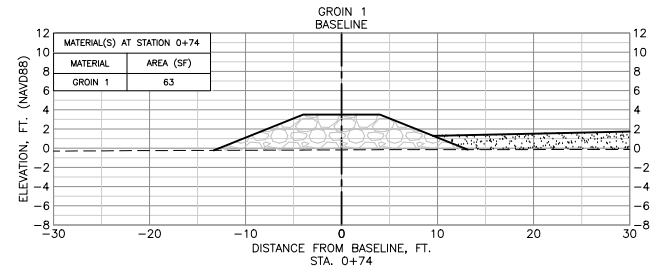
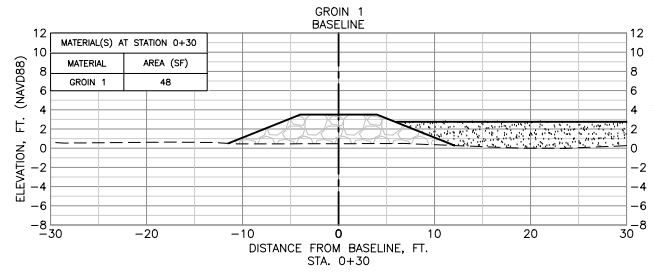
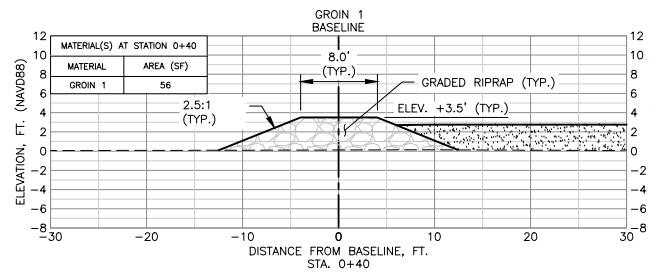
1 ABM ALIGNMENT
05/07 SCALE: 1" = 10'

0 10' 20'
PRINTED HALF-SIZE



CONSULTANT'S SHEET NO. 04C-01	
100% DESIGN, PRE-NOA PRELIMINARY THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES. ENGINEER: DANIEL J. HEILMAN LICENSE NO.: 86936 DATE: 03/10/2026	
FDR TBPELS Firm Registration No. F-754 Project No. 10400452	
CITY of CORPUS CHRISTI TEXAS Department of Engineering Services	
SOUTH BAY PARK SHORELINE IMPROVEMENTS	
ABM ALIGNMENT	
02/2025	90% PRELIMINARY DESIGN REVIEW
10/2024	60% PRELIMINARY DESIGN REVIEW
03/10/2026	INTERIM CHECK PLOT (PRE-FINAL DESIGN, PRE-NOA)
05/07	1 ABM ALIGNMENT
SHEET 07 of 26 RECORD DRAWING NO. CP-XXX CITY PROJECT #23035	

UPDATED: 3/10/2026



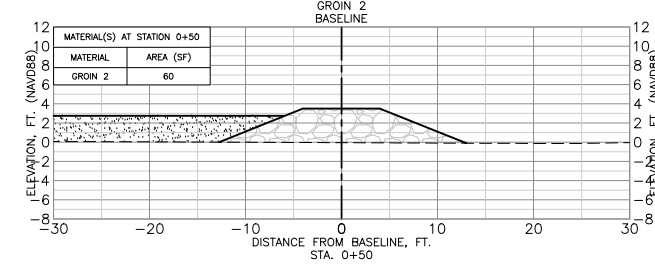
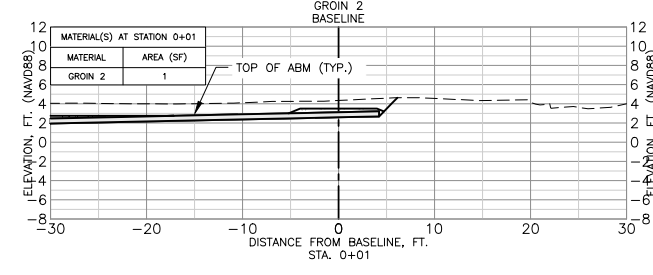
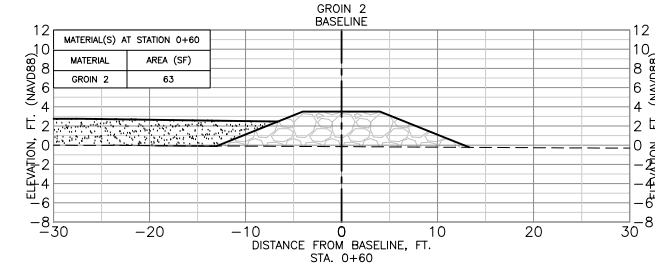
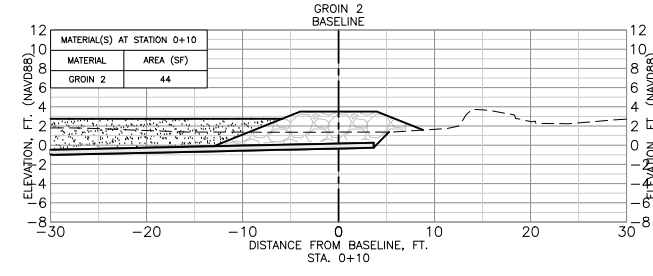
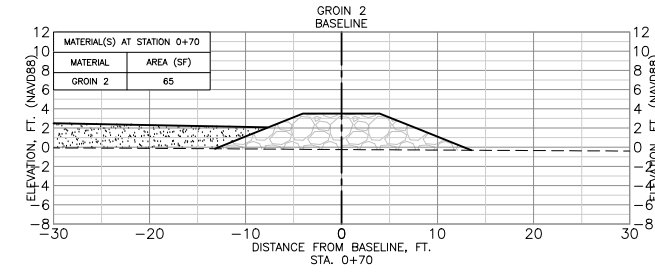
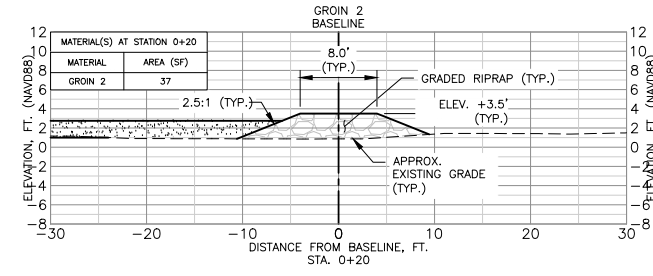
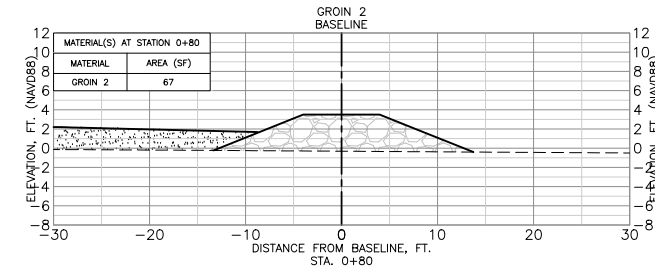
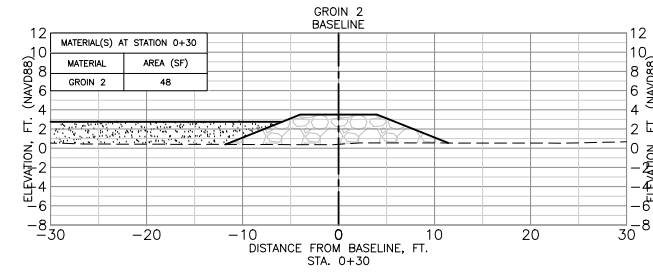
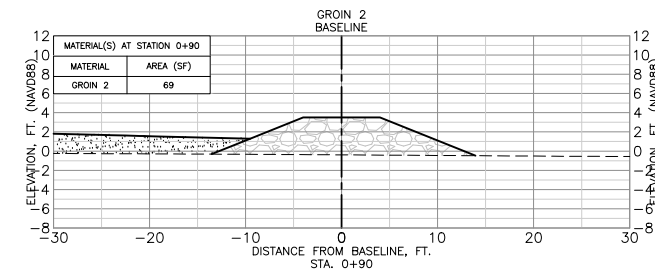
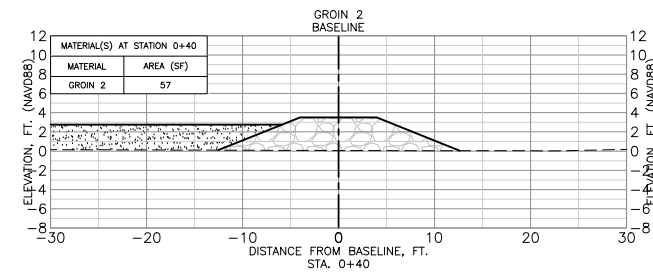
- NOTES:
- SECTIONS VIEWED LOOKING TOWARDS INCREASING STATIONS.
 - CONCRETE GROIN CAP NOT SHOWN FOR CLARITY, REFER TO SHEET 12.



PRINTED HALF-SIZE

CONSULTANT'S SHEET NO. 05C-01	
100% DESIGN, PRE-NOA PRELIMINARY <small>THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.</small> ENGINEER: DANIEL J. HEILMAN LICENSE NO.: 86936 DATE: 03/10/2026	
 TBP&S Firm Registration No. F-754 Project No. 10400452	
 CITY OF CORPUS CHRISTI TEXAS Department of Engineering Services	
SOUTH BAY PARK SHORELINE IMPROVEMENTS ROCK GROIN CROSS-SECTIONS 01	
SHEET 08 of 26 RECORD DRAWING NO. CP-XXX CITY PROJECT #23035	
02/2025 D/JH 90% PRELIMINARY DESIGN REVIEW	10/2024 D/JH 60% PRELIMINARY DESIGN REVIEW
REVISION NO. A	DESCRIPTION INTERIM CHECK PLOT (PRE-FINAL DESIGN, PRE-NOA)
03/10/2026 DATE	D/JH BY
-- REVISION NO.	03/10/2026 DATE

UPDATED: 3/10/2026



- NOTES:
- SECTIONS VIEWED LOOKING TOWARDS INCREASING STATIONS.
 - CONCRETE GROIN CAP NOT SHOWN FOR CLARITY, REFER TO SHEET 12.



PRINTED HALF-SIZE

CONSULTANT'S SHEET NO. 05C-02	
100% DESIGN, PRE-NOA PRELIMINARY <small>THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.</small> ENGINEER: DANIEL J. HELLMAN LICENSE NO.: 86936 DATE: 03/10/2026	
 TBPELS Firm Registration No. F-754 Project No. 10400452	
 CITY OF CORPUS CHRISTI TEXAS Department of Engineering Services	
SOUTH BAY PARK SHORELINE IMPROVEMENTS ROCK GROIN CROSS-SECTIONS 02	
SHEET 09 of 26	
RECORD DRAWING NO. CP-XXX	
CITY PROJECT # 23035	

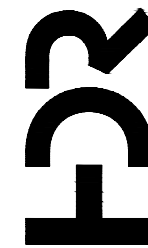
REVISION NO.	DATE	DESCRIPTION
B	02/2025	90% PRELIMINARY DESIGN REVIEW
A	10/2024	60% PRELIMINARY DESIGN REVIEW

REVISION NO.	DATE	BY	DESCRIPTION
--	03/10/2026	DJH	INTERIM CHECK PLOT (PRE-FINAL DESIGN, PRE-NOA)

100% DESIGN, PRE-NOA PRELIMINARY

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

ENGINEER: DANIEL J. HEILMAN
 LICENSE NO.: 86936
 DATE: 03/10/2026



TBPELS Firm
 Registration No. F-754
 Project No. 10400452



CITY OF CORPUS CHRISTI TEXAS
 Department of Engineering Services

SOUTH BAY PARK SHORELINE IMPROVEMENTS

ABM CROSS-SECTIONS 01

SHEET 10 of 26

RECORD DRAWING NO.

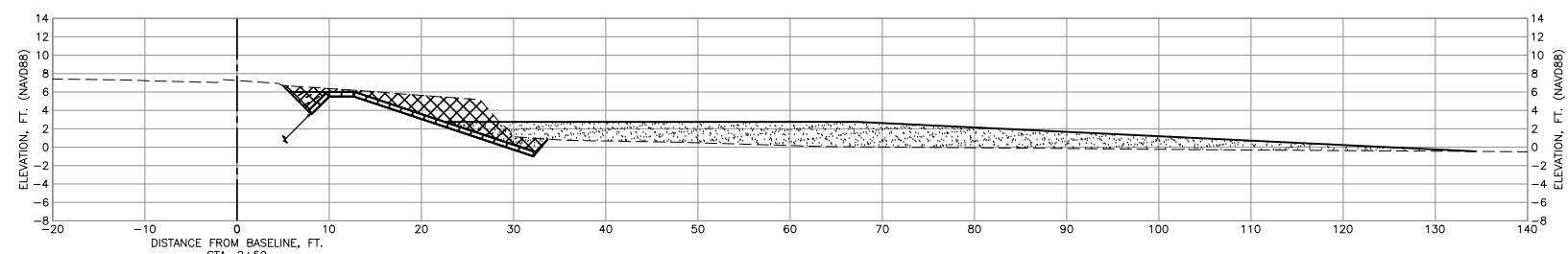
CP-XXX

CITY PROJECT #23035

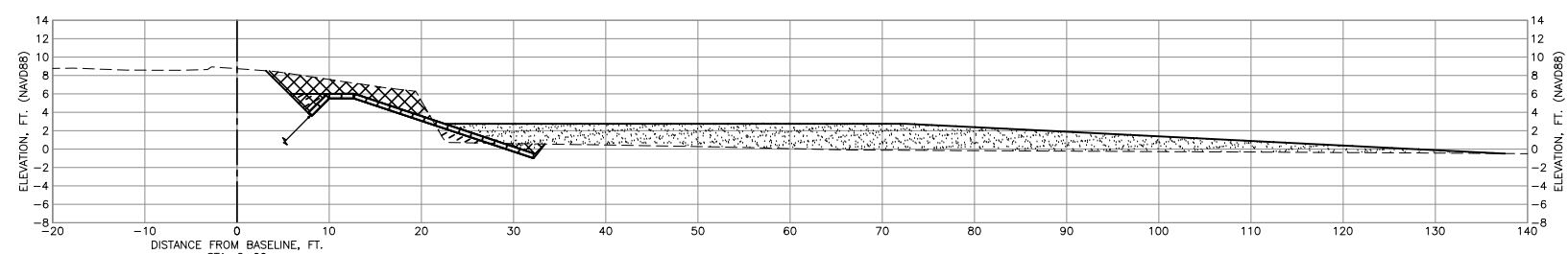
REVISION NO.	DATE	BY	DESCRIPTION
---	03/10/2026	DJH	INTERIM CHECK PLOT (PRE-FINAL DESIGN, PRE-NOA)
90% PRELIMINARY DESIGN REVIEW	02/2025	DJH	
60% PRELIMINARY DESIGN REVIEW	10/2024	DJH	
A	10/2024	DJH	
B	02/2025	DJH	

NOTES:

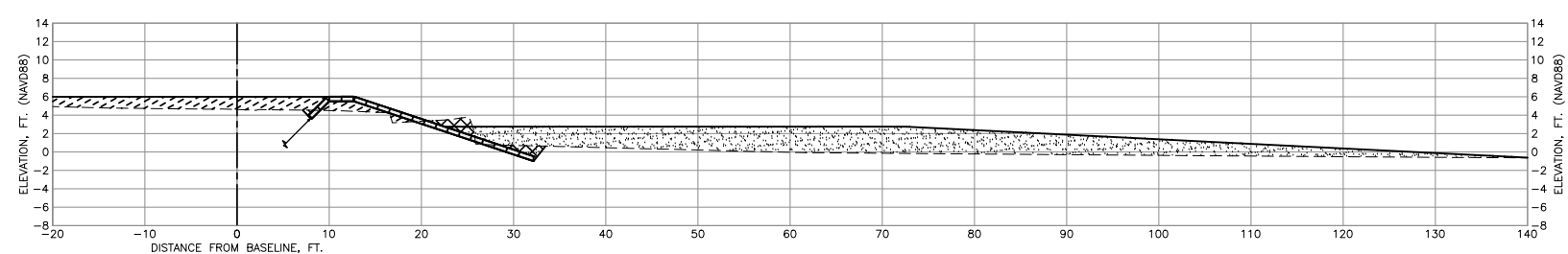
- SECTIONS VIEWED LOOKING TOWARDS INCREASING STATIONS.
- BEACH NOURISHMENT SLOPE MAY BE CONSTRUCTED STEEPER THAN 20H:1V, BUT SHALL BE NOT STEEPER THAN 10H:1V. CONSTRUCTING SLOPE STEEPER THAN 20H:1V WILL REQUIRE INCREASING BERM WIDTH TO SATISFY CONTRACT QUANTITY.



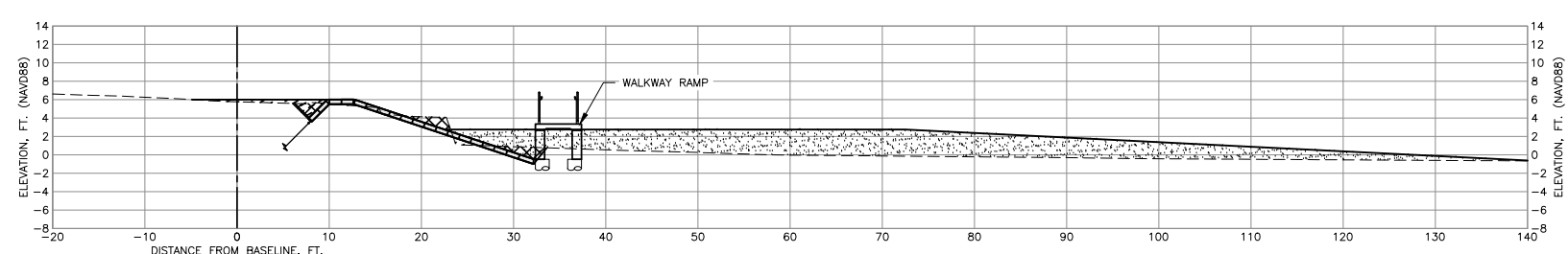
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
ABM	13.12	24.18	115.46
BEACH	190.04	369.82	1713.09
EXCAVATION	45.69	74.61	207.22
SAND FILL BELOW ABM	0.00	3.84	30.41



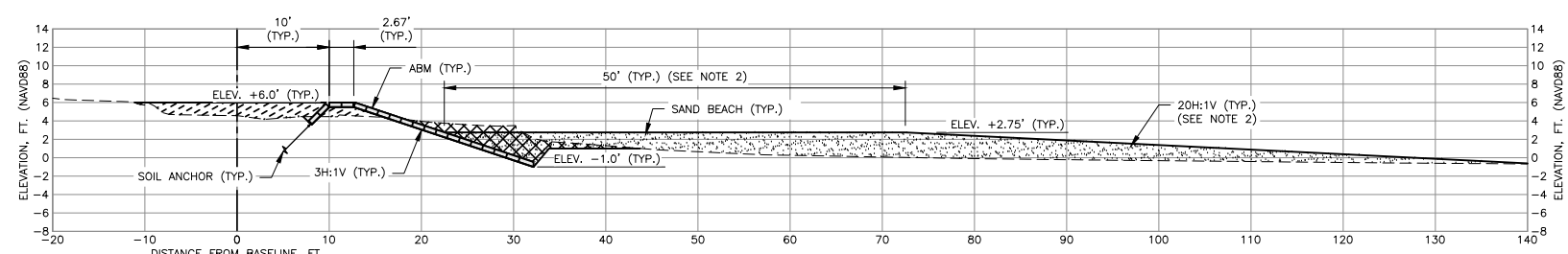
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
ABM	13.18	24.51	91.28
BEACH	212.23	403.37	1343.27
EXCAVATION	35.47	40.72	132.61
SAND FILL BELOW ABM	4.18	10.14	26.57



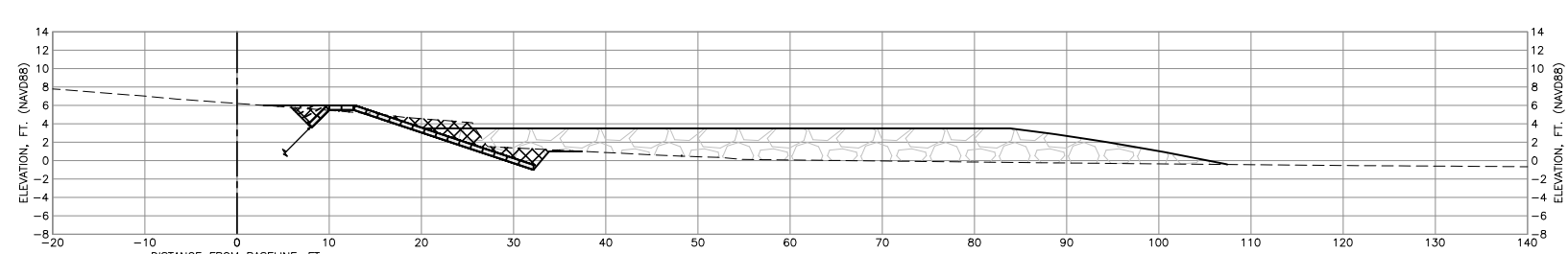
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
ABM	13.11	24.27	66.77
BEACH	220.32	407.88	939.90
EXCAVATION	8.20	16.92	91.88
SAND FILL BELOW ABM	6.70	7.30	16.43



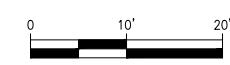
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
ABM	13.11	24.27	42.49
BEACH	220.19	391.35	532.02
EXCAVATION	10.08	37.54	74.97
SAND FILL BELOW ABM	1.19	5.46	9.12



MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
ABM	13.11	18.22	18.22
BEACH	202.46	140.68	140.68
EXCAVATION	30.47	37.43	37.43
SAND FILL BELOW ABM	4.70	3.67	3.67



MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
ABM	13.11	0.00	0.00
BEACH	0.00	0.00	0.00
EXCAVATION	23.40	0.00	0.00
SAND FILL BELOW ABM	0.57	0.00	0.00



PRINTED HALF-SIZE

100% DESIGN, PRE-NOA PRELIMINARY
 THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.
 ENGINEER: DANIEL J. HEILMAN
 LICENSE NO.: 86936
 DATE: 03/10/2026

FOR
 TBPBELS Firm
 Registration No. F-754
 Project No. 10400452

CITY of CORPUS CHRISTI TEXAS
 Department of Engineering Services

SOUTH BAY PARK SHORELINE IMPROVEMENTS
 TYPICAL SECTIONS 01

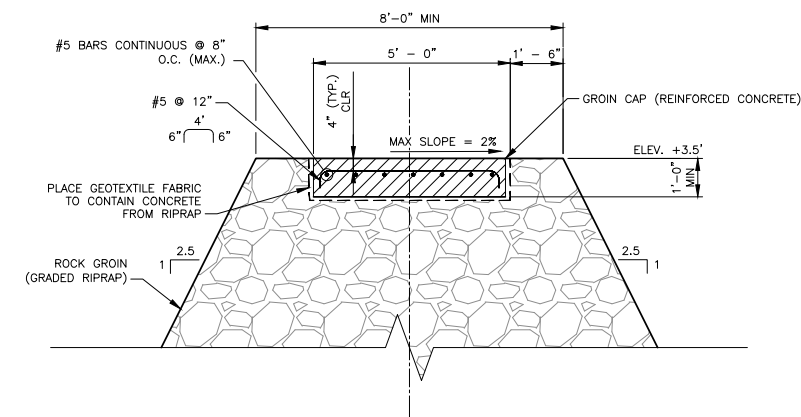
SHEET 11 of 26
 RECORD DRAWING NO. CP-XXX
 CITY PROJECT #23035

NOTES:

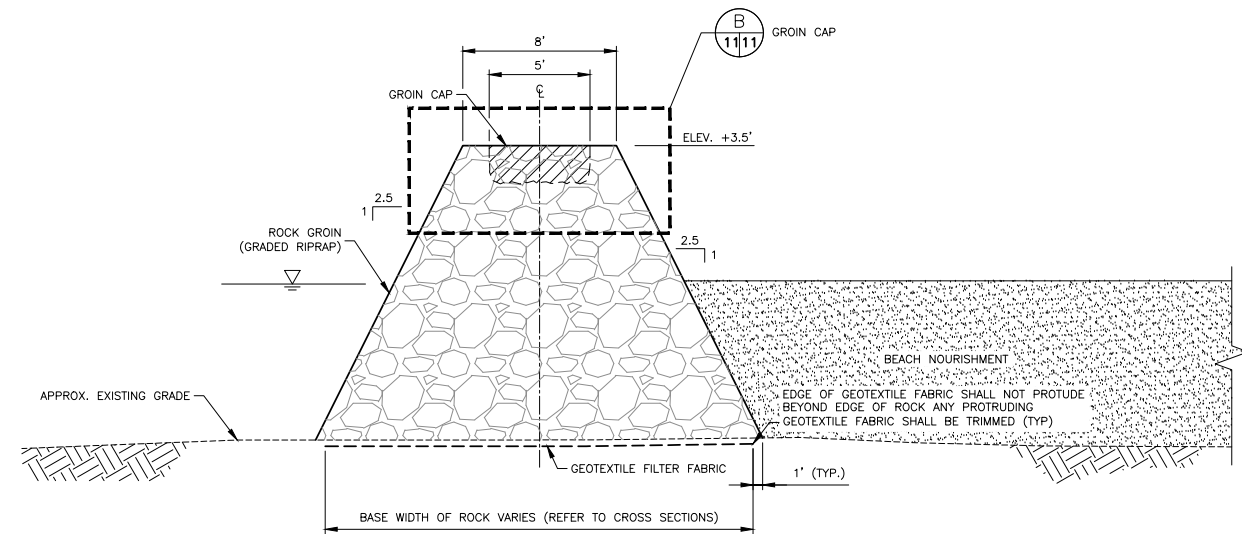
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF PARTIALLY COMPLETED WORK PRIOR TO PLACEMENT OF FULL/FINISHED RIPRAP LAYER.
- ALL VERTICAL TOLERANCES ARE +/- 0.2FT UNLESS STATED OTHERWISE. MINUS TOLERANCE SHALL NOT APPLY TO ELEVATIONS STATED AS "MIN".
- ALL STONE PLACEMENT SHALL MAXIMIZE CONTACT BETWEEN INDIVIDUAL STONES ON ALL SIDES WITH EACH STONE HAVING AT LEAST THREE POINTS OF CONTACT WITH OTHER STONES.
- ROUGH BROOM FINISH SHALL BE PROVIDED ON TOP SURFACE OF GROIN CAP.
- DAYBEACONS SHALL BE LOCATED APPROXIMATELY 10 FEET FROM SEAWARD TOE OF BREAKWATER. ALL DAYBEACON LOCATIONS SHALL BE COORDINATED WITH ENGINEER PRIOR TO DAYBEACON INSTALLATION.
- COMPACTED FILL PLACED UNDER GRADED RIPRAP SHALL COMPLY WITH THE REQUIREMENTS FOR CONTRACTOR-FURNISHED FILL MATERIAL IN SPECIFICATION 31 22 13 (SITE EXCAVATION AND GRADING).

JOINT NOTES:

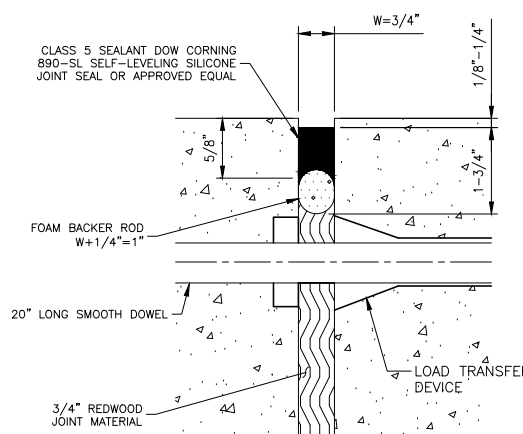
- THE JOINT RESERVOIR FOR SEALANT SHALL BE SAWS UNLESS OTHERWISE SHOWN ON THE PLANS FOR THE CONSTRUCTION JOINTS.
- THE JOINTS SHALL BE CLEANED IN ACCORDANCE WITH THE SEALANT MANUFACTURER'S RECOMMENDATION. PRIOR TO BEGINNING OPERATIONS, THE CONTRACTOR SHALL SUBMIT A STATEMENT FROM THE SEALANT MANUFACTURER SHOWING THE RECOMMENDED EQUIPMENT AND INSTALLATION PROCEDURES TO BE USED.
- EXPANSION JOINTS SHALL BE PLACED AT A MAXIMUM SPACING OF 40 FT. AND A MINIMUM SPACING OF 10 FT. AND SHALL BE THE FULL DEPTH OF GROIN CAP. GROIN CAP REINFORCEMENT SHALL TERMINATE 3" CLR OF EXPANSION JOINT.
- SPACING OF CONTROL JOINTS SHALL NOT EXCEED 8FT. CONTROL JOINT DEPTHS SHALL NOT BE LESS THAN A QUARTER OF THE DEPTH OF THE GROIN CAP.
- AT CONTRACTORS OPTION, CONSTRUCTION JOINT CAN BE USED INSTEAD OF CONTROL JOINT.



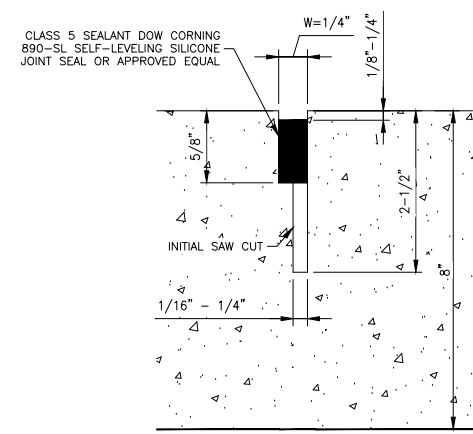
B TYPICAL SECTION - GROIN CAP
 SCALE: N.T.S.



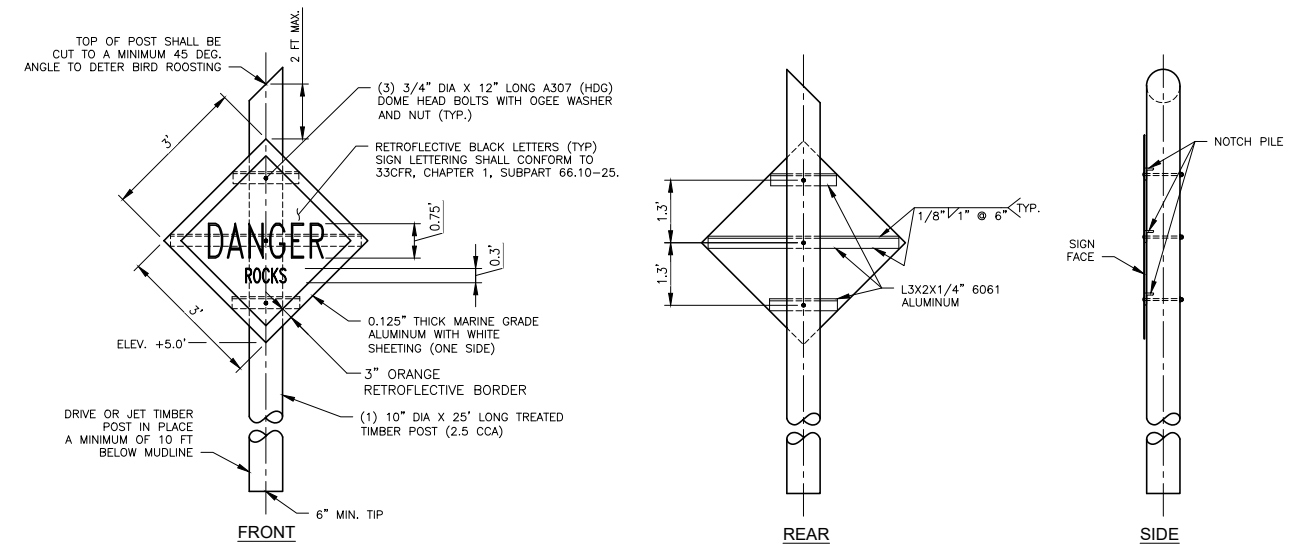
A TYPICAL SECTION - ROCK GROIN
 SCALE: 1" = 5'



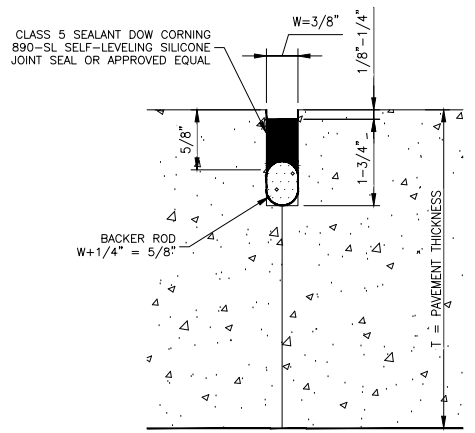
1 DETAIL - EXPANSION JOINT
 SCALE: N.T.S.



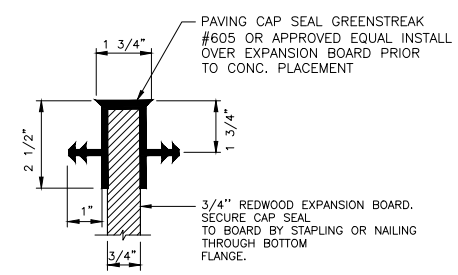
2 DETAIL - CONTROL JOINT
 SCALE: N.T.S.



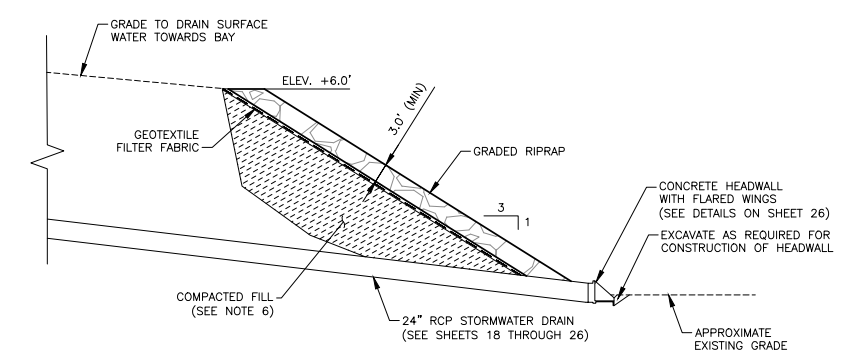
5 TYPICAL DETAIL - DAYBEACON
 SCALE: N.T.S.



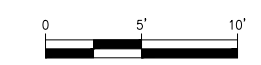
3 DETAIL - CONSTRUCTION JOINT
 SCALE: N.T.S. (SEE JOINT NOTE 6)



4 DETAIL - NEW CONCRETE TO NEW CONCRETE CAP SEAL
 SCALE: N.T.S.



C TYPICAL ELEVATION - RIPRAP AT STORM DRAIN OUTFALL
 SCALE: N.T.S.

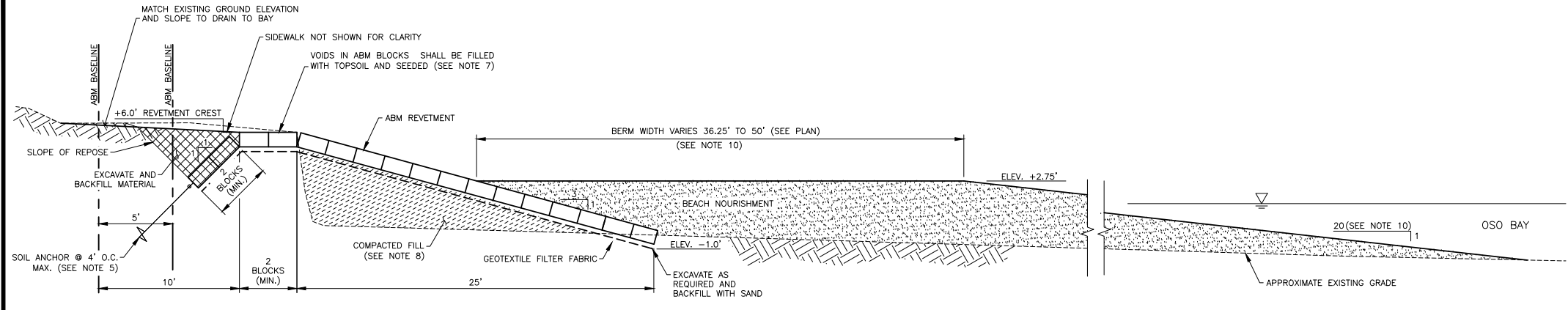


PRINTED HALF-SIZE

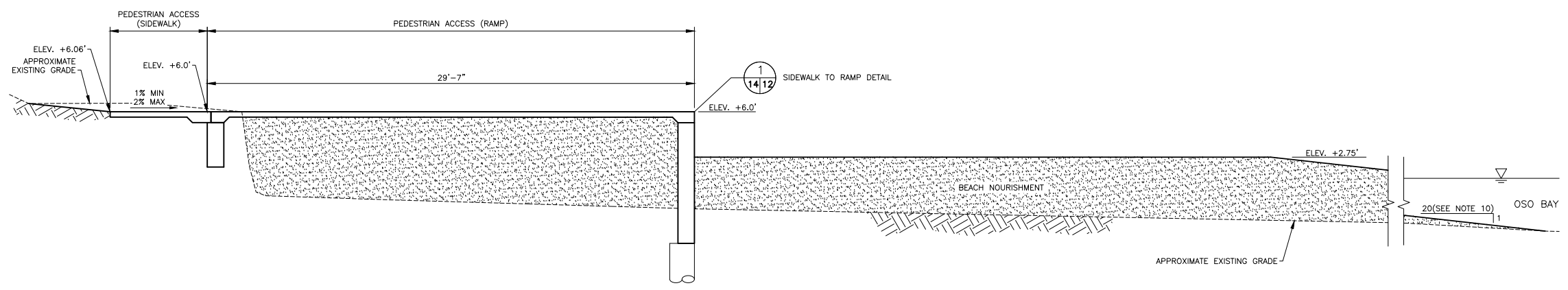
UPDATED: 3/10/2026

REVISION NO.	DATE	BY	DESCRIPTION
B	02/2025	DJH	90% PRELIMINARY DESIGN REVIEW
A	10/2024	DJH	60% PRELIMINARY DESIGN REVIEW

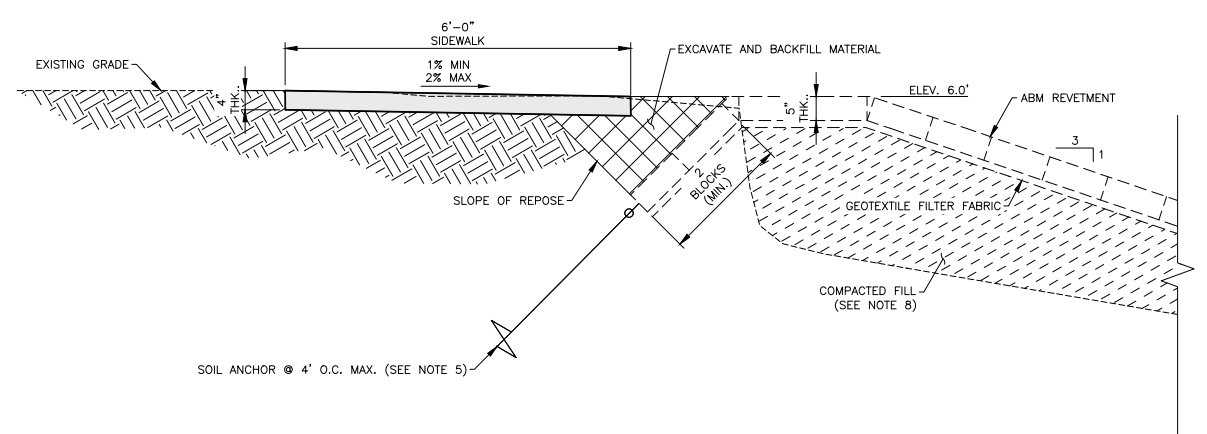
UPDATED: 3/10/2026



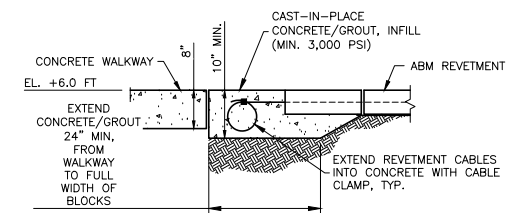
A TYPICAL SECTION - ABM REVETMENT AND BEACH NOURISHMENT
SCALE: N.T.S.



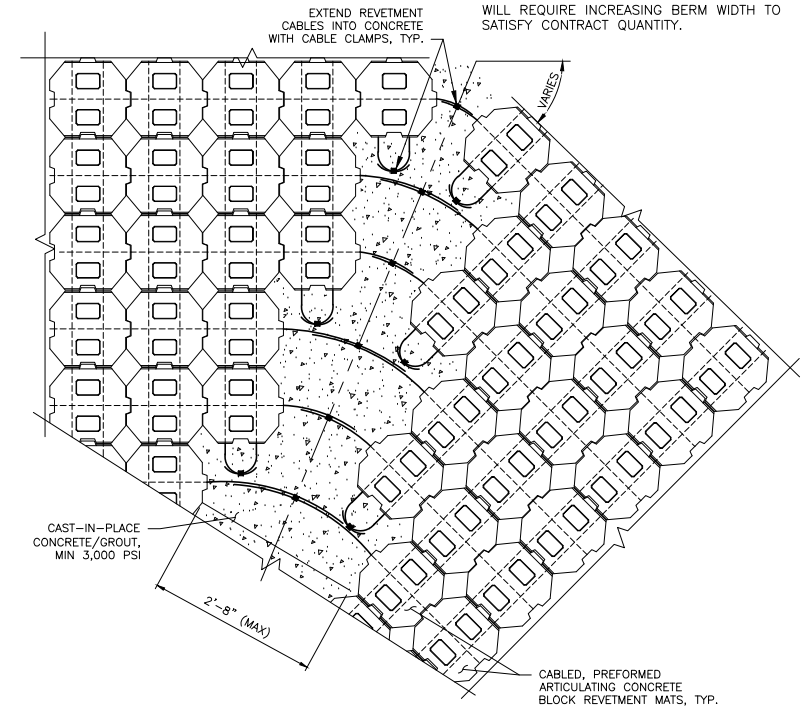
B TYPICAL SECTION - RAMP
SCALE: N.T.S.



C TYPICAL SECTION - ABM REVETMENT AND SIDEWALK
SCALE: N.T.S.



D TYPICAL SECTION - ABM REVETMENT AND WALKWAY
SCALE: N.T.S.



1 PLAN - TYPICAL ABM LAYOUT AT CURVE
SCALE: N.T.S.

- NOTES:
- REMOVE/CLEAR EXISTING VEGETATION FROM CREST OF ABM REVETMENT GRADE PRIOR TO PLACEMENT OF GEOTEXTILE FILTER FABRIC.
 - ABM BLOCKS SHALL BE OPEN-CELLED. ABM BLOCK SHAPE SHOWN IS INTENDED FOR GRAPHIC PRESENTATION ONLY. ACTUAL BLOCK SHAPE MAY VARY IN ACCORDANCE WITH SPECIFICATION SECTION 35 31 19.20.
 - ALL ABM CABLES IN ADJACENT MATS SHALL BE ATTACHED TO EACH OTHER USING CABLE CLAMPS.
 - MITERED JOINTS WITHIN ABM REVETMENT BENDS SHALL BE DETAILED BY THE ABM MANUFACTURER AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO MAT FABRICATION. CONTINUITY OF ALL CABLES (CLAMPED TOGETHER) SHALL BE MAINTAINED ACROSS MITERED JOINTS AND/OR CONCRETE/GROUT INFILL SECTIONS.
 - ALL PROJECTING CABLES AT TOP EDGE OF ABM SHALL BE GATHERED, CLAMPED TOGETHER, AND ATTACHED TO SOIL ANCHORS. THERE SHALL BE NO UNATTACHED CABLES.
 - MATERIAL EXCAVATED TO PREPARE GRADE FOR REVETMENT TOE SHALL BE PLACED IN TEMPORARY STOCKPILE ON THE ADJACENT BANK OR ADJACENT BAY BOTTOM. IF WET MATERIAL IS PLACED ON ADJACENT BANK, CONTRACTOR SHALL CONTROL/ROUTE RUNOFF OF WATER AND PLACE TEMPORARY EROSION CONTROL DEVICES TO PREVENT EROSION AND/OR GULLING FROM RUNOFF. IF PLACED ON ADJACENT BAY BOTTOM, STOCKPILES SHALL BE REMOVED PRIOR TO PLACEMENT OF SAND FOR BEACH FILL. ANY SURPLUS MATERIAL SHALL BE PLACED AS UPLAND FILL WITHIN DESIGNATED AREAS OR REMOVED FROM THE PROJECT SITE.
 - VOIDS WITHIN AND BETWEEN EXPOSED ABM BLOCKS ABOVE ELEVATION +2.75 FT SHALL BE FILLED WITH TOPSOIL AND SEEDED IN ACCORDANCE WITH SPECIFICATION SECTION 02 80 20 (SEEDING). ALSO SEED THE AREA BETWEEN CREST OF REVETMENT AND EDGE OF SIDEWALK.
 - COMPACTED FILL PLACED UNDER ABM REVETMENT SHALL COMPLY WITH THE REQUIREMENTS FOR CONTRACTOR-FURNISHED FILL MATERIAL IN SPECIFICATION 31 22 13 (SITE EXCAVATION AND GRADING).
 - ABM SHALL NOT BE INSTALLED BENEATH SIDE OF RAMP WALLS. ABM ABUTTING EITHER SIDE OF RAMP WALLS SHALL HAVE CABLES MECHANICALLY ATTACHED TO RAMP. ALL VOID BETWEEN ABM BLOCKS AND RAMP WALLS SHALL BE SEALED WITH CONCRETE/GROUT.
 - BEACH NOURISHMENT SLOPE MAY BE CONSTRUCTED STEEPER THAN 20H:1V, BUT SHALL NOT BE STEEPER THAN 10H:1V. CONSTRUCTING SLOPE STEEPER THAN 20H:1V WILL REQUIRE INCREASING BERM WIDTH TO SATISFY CONTRACT QUANTITY.

REVISION NO.	DATE	DESCRIPTION
B	02/2025	90% PRELIMINARY DESIGN REVIEW
A	10/2024	60% PRELIMINARY DESIGN REVIEW

CONSULTANT'S SHEET NO.
07C-02

100% DESIGN, PRE-NOA PRELIMINARY

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

ENGINEER: DANIEL J. HEILMAN
LICENSE NO.: 86936
DATE: 03/10/2026

FOR

TBPELS Firm
Registration No. F-754
Project No. 10400452

CITY of CORPUS CHRISTI TEXAS
Department of Engineering Services

SOUTH BAY PARK
SHORELINE IMPROVEMENTS

TYPICAL SECTIONS 02

SHEET 12 of 26
RECORD DRAWING NO.
CP-XXX
CITY PROJECT #23035

PRINTED HALF-SIZE



1 PHOTO 1
SCALE: N.T.S.



2 PHOTO 2
SCALE: N.T.S.



3 PHOTO 3
SCALE: N.T.S.



4 PHOTO 4
SCALE: N.T.S.




5 PHOTO 5
SCALE: N.T.S.



6 PHOTO 6
SCALE: N.T.S.

NOTES:
1. PHOTOS WERE TAKEN 09/08/2023.

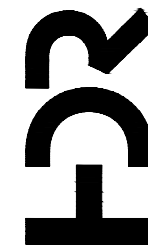
REVISION NO.		DATE		DESCRIPTION	
B		02/2025	DJH	90% PRELIMINARY DESIGN REVIEW	
A		10/2024	DJH	60% PRELIMINARY DESIGN REVIEW	
REVISION NO.		DATE		DESCRIPTION	
---		03/10/2026		INTERIM CHECK PLOT (PRE-FINAL DESIGN, PRE-NOA)	
<p style="text-align: center;">  CITY OF CORPUS CHRISTI TEXAS Department of Engineering Services </p>					
<p style="text-align: center;"> 100% DESIGN, PRE-NOA PRELIMINARY <small>THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.</small> ENGINEER: DANIEL J. HEILMAN LICENSE NO.: 86936 DATE: 03/10/2026 </p>					
<p style="text-align: center;"> FDR TBPBLS Firm Registration No. F-754 Project No. 10400452 </p>					
SOUTH BAY PARK SHORELINE IMPROVEMENTS				SHEET 13 of 26	
SITE PHOTOS				RECORD DRAWING NO. CP-XXX	
CITY PROJECT # 23035					

CONSULTANT'S SHEET NO.
08C-01

100% DESIGN, PRE-NOA
PRELIMINARY

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

ENGINEER: DANIEL J. HEILMAN
LICENSE NO.: 86936
DATE: 03/10/2026



TBPPELS Firm
Registration No. F-754
Project No. 10400452



CITY of CORPUS CHRISTI
TEXAS
Department of Engineering Services

SOUTH BAY PARK
SHORELINE IMPROVEMENTS

RAMP DETAILS 1

SHEET 14 of 26

RECORD DRAWING NO.

CP-XXX

CITY PROJECT #23035

INTERIM CHECK PLOT (PRE-FINAL DESIGN, PRE-NOA)

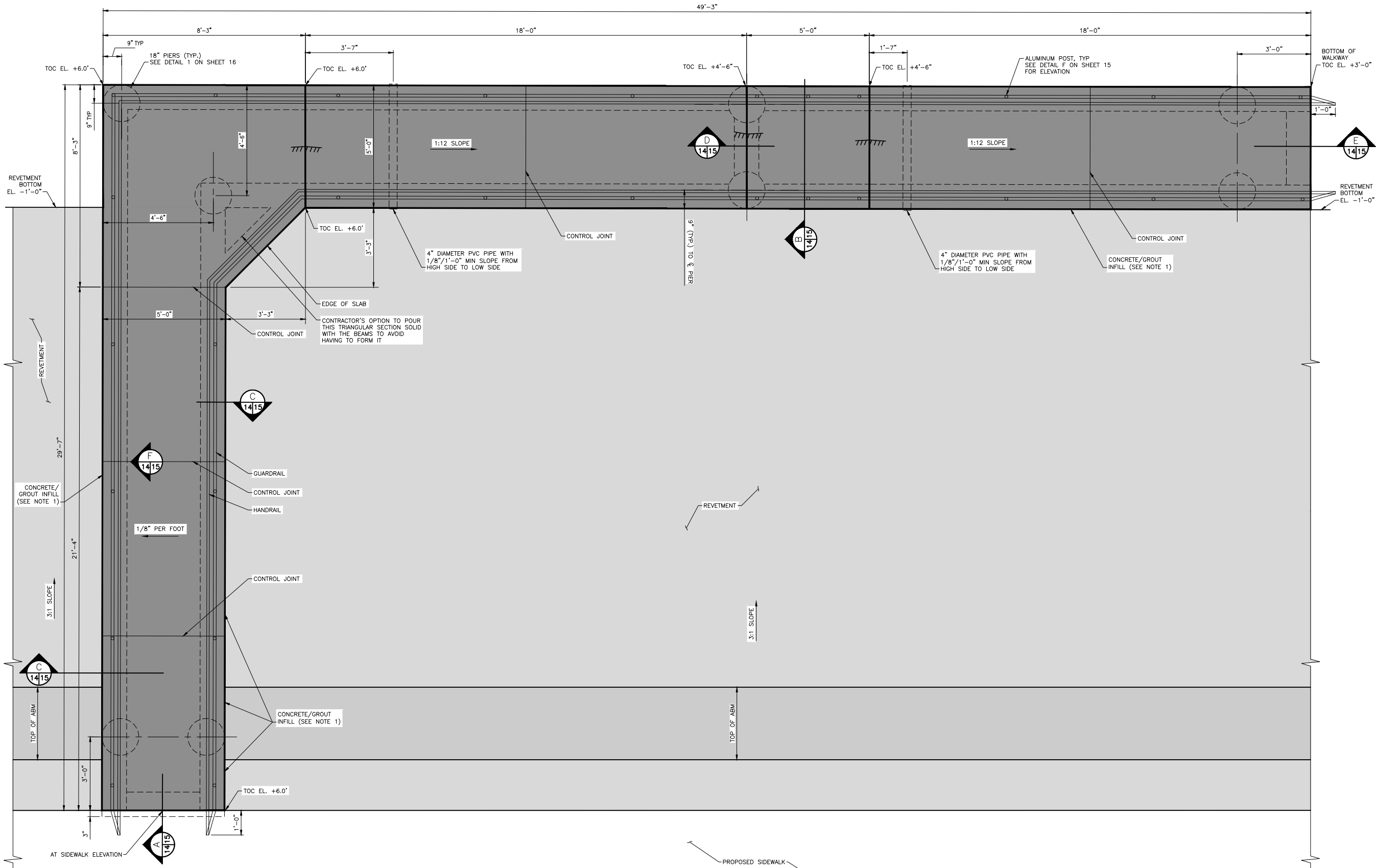
03/10/2026
DATE

REVISION NO.

90% PRELIMINARY DESIGN REVIEW
60% PRELIMINARY DESIGN REVIEW

02/2025
10/2024
DATE

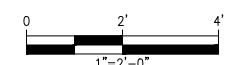
REVISION NO.



1 PLAN - SIDEWALK TO RAMP DETAIL
SCALE: 1" = 2' - 0"

NOTES:

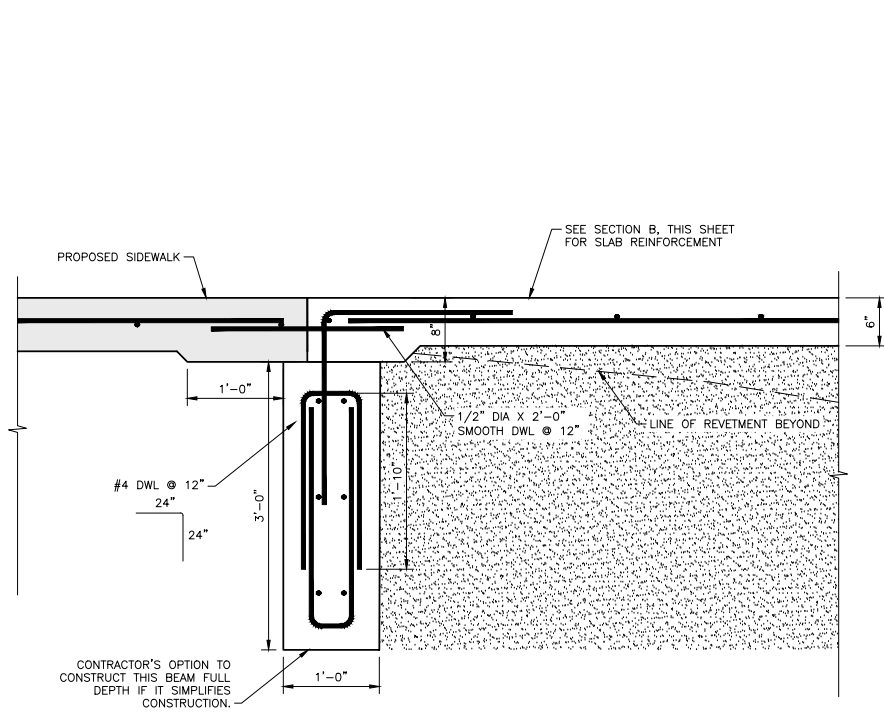
- 1. CAST-IN-PLACE CONCRETE/GROUT INFILL SHALL BE PLACED TO CREATE CONTINUOUS INTERFACE ALONG ALL EDGES WHERE ABM ABUTS SIDES OF CONCRETE WALKWAY, INCLUDING SLOPES. REFER TO SECTION B ON SHEET 15 FOR INFILL REQUIREMENTS.



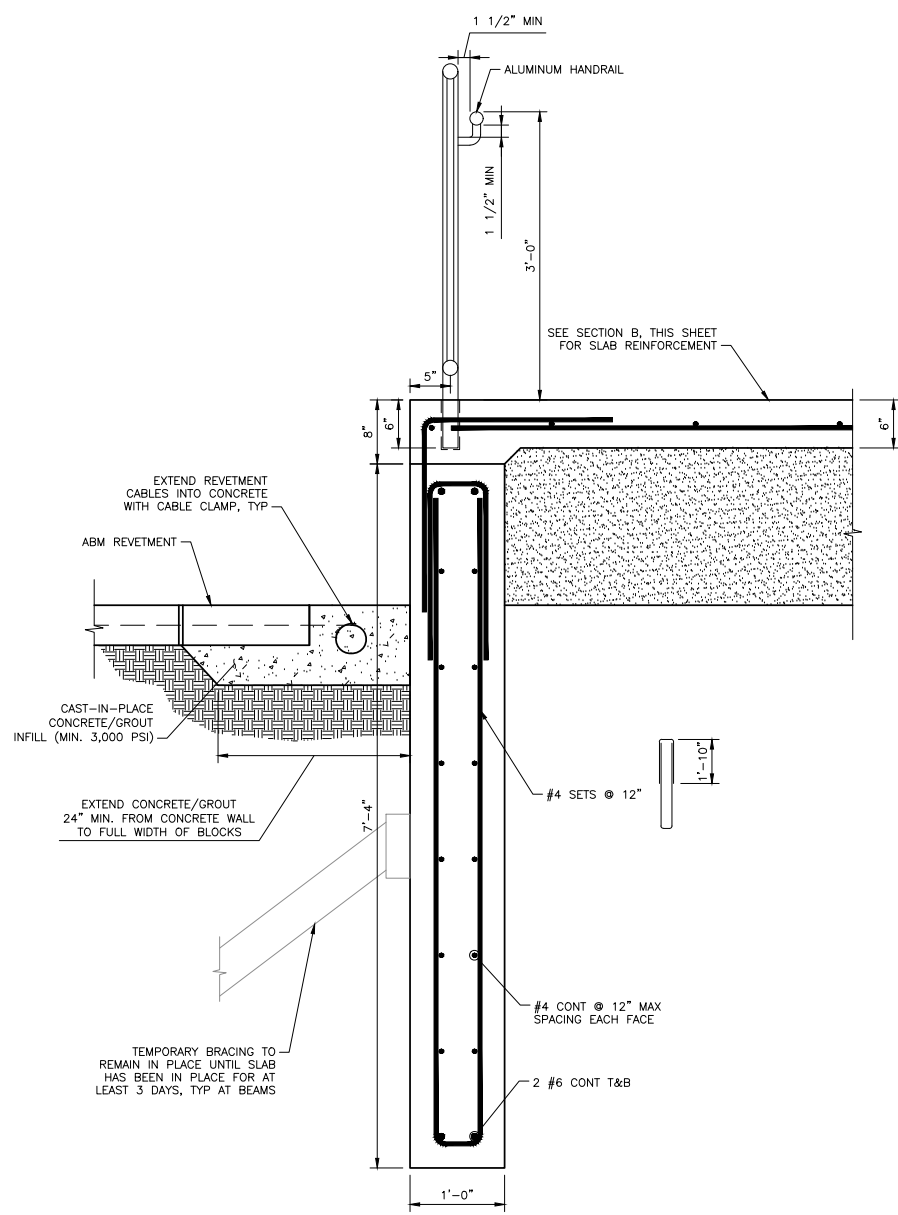
PRINTED HALF-SIZE

UPDATED: 3/10/2026

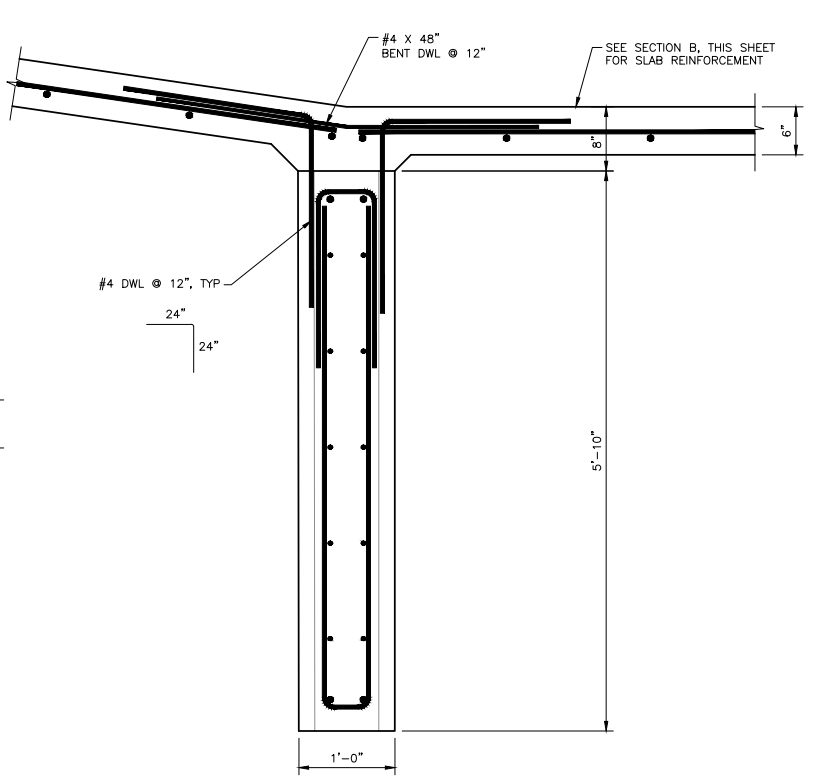
UPDATED: 3/10/2026



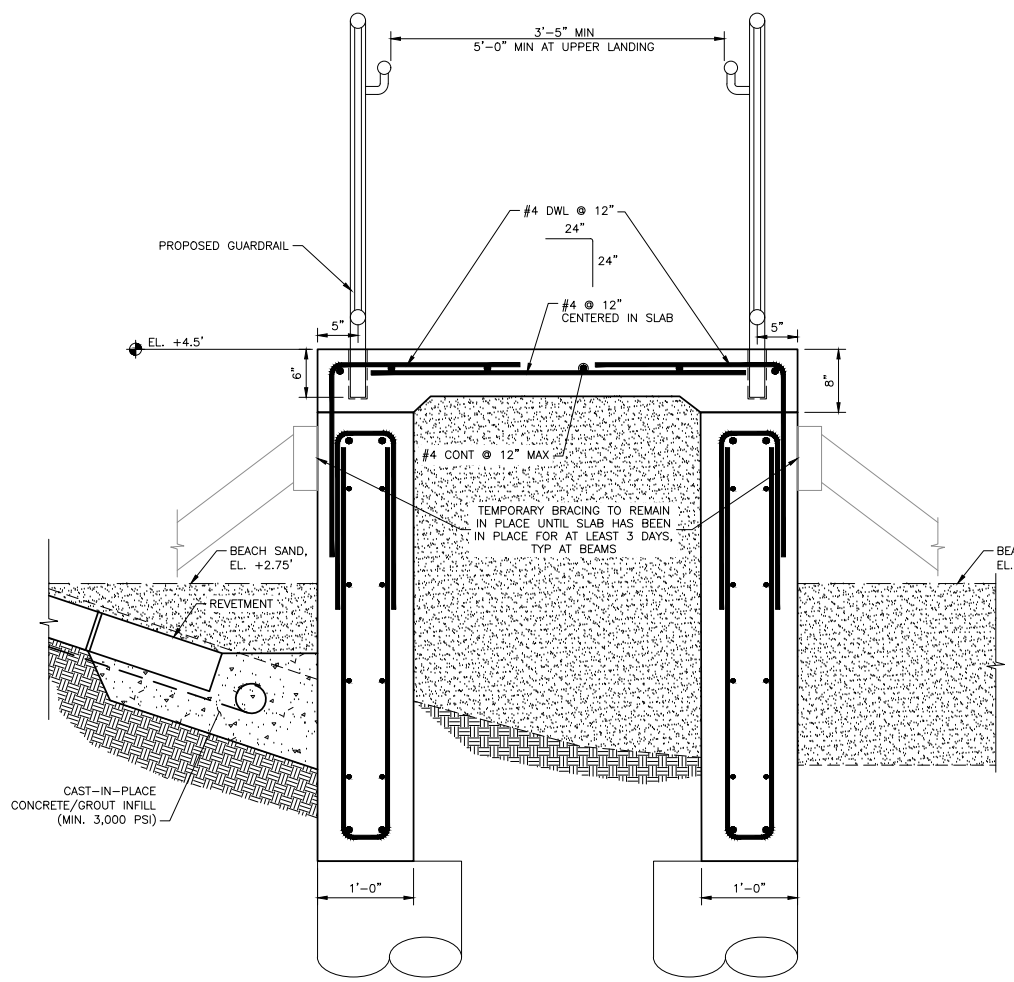
SECTION - RAMP TO SIDEWALK TRANSITION
 SCALE: 1" = 1'-0"



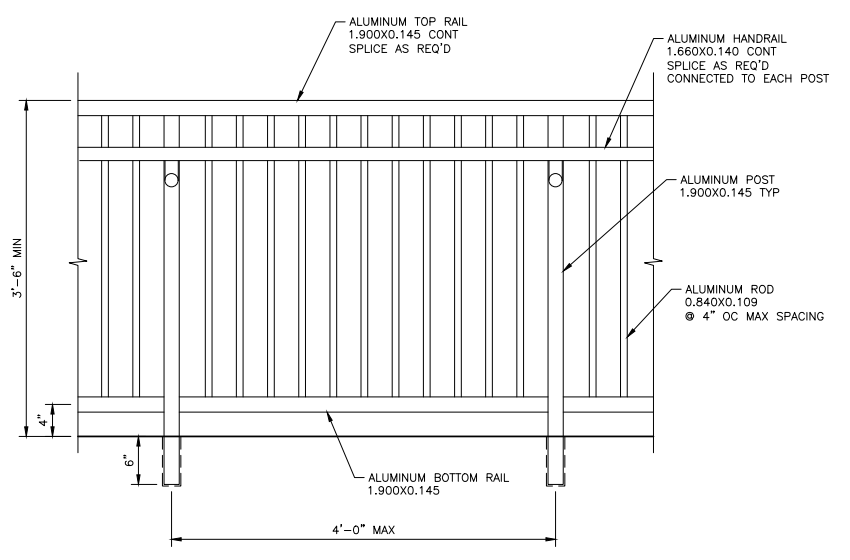
SECTION - TYPICAL RAMP DETAIL
 SCALE: 1" = 1'-0"



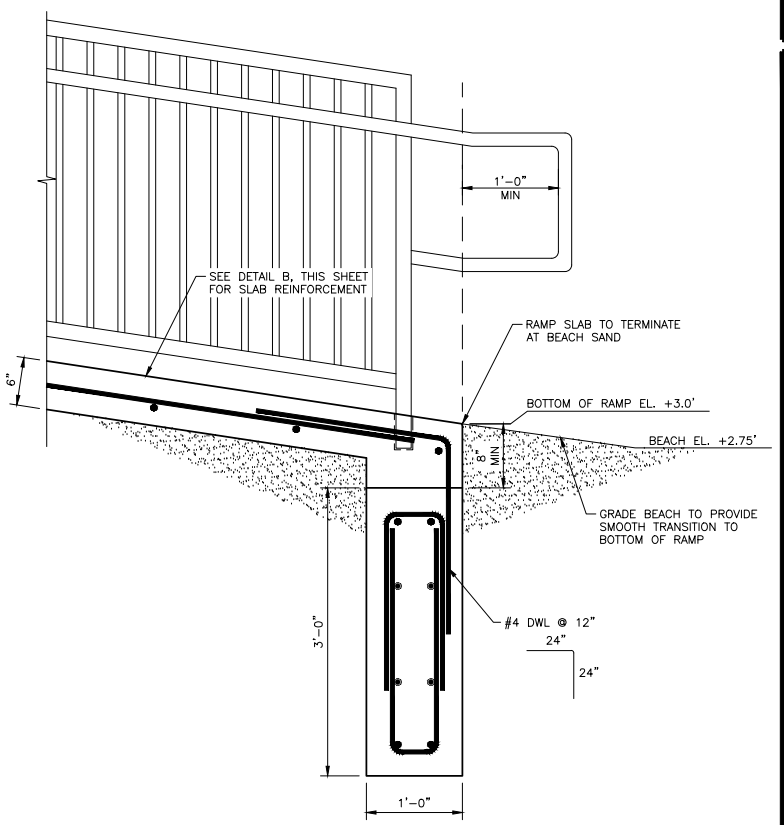
SECTION - RAMP AT SLOPE TRANSITION
 SCALE: 1" = 1'-0"



SECTION - RAMP INTERMEDIATE LANDING
 SCALE: 1" = 1'-0"



ELEVATION - GUARDRAIL
 SCALE: 1" = 1'-0"

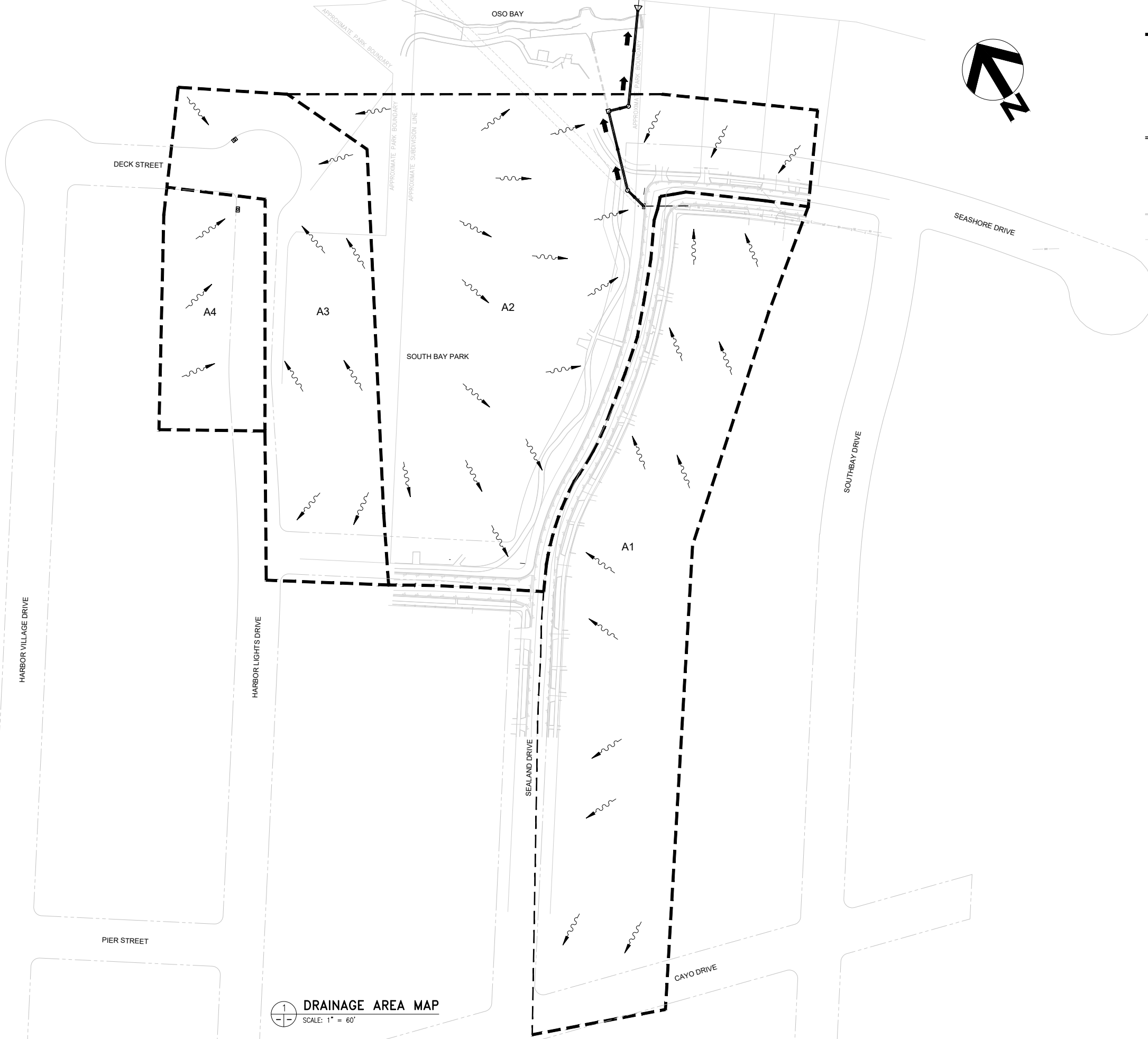


SECTION - RAMP TERMINATION
 SCALE: 1" = 1'-0"

CONSULTANT'S SHEET NO. 09C-02		100% DESIGN, PRE-NOA PRELIMINARY		THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES. ENGINEER: DANIEL J. HEILMAN LICENSE NO.: 86936 DATE: 03/10/2026	
		TBPELS Firm Registration No. F-754 Project No. 10400452		CITY of CORPUS CHRISTI TEXAS Department of Engineering Services	
SOUTH BAY PARK SHORELINE IMPROVEMENTS		RAMP DETAILS 2		SHEET 15 of 26 RECORD DRAWING NO. CP-XXX	
CITY PROJECT #23035		INTERIM CHECK PLOT (PRE-FINAL DESIGN, PRE-NOA) DJH BY 03/10/2026 DATE -- REVISION NO.		90% PRELIMINARY DESIGN REVIEW 60% PRELIMINARY DESIGN REVIEW DJH BY 02/2025 DATE A 10/2024 DATE	

PRINTED HALF-SIZE

UPDATED: 3/10/2026



1
DRAINAGE AREA MAP
 SCALE: 1" = 60'

0 60' 120'
PRINTED HALF-SIZE

REVISION NO.	DATE	DESCRIPTION
B	02/2025	90% PRELIMINARY DESIGN REVIEW
A	10/2024	60% PRELIMINARY DESIGN REVIEW

REVISION NO.	DATE	DESCRIPTION
--	03/10/2026	INTERIM CHECK PLOT (PRE-FINAL DESIGN, PRE-NOA)
DJH	BY	

CONSULTANT'S SHEET NO.
10C-01

100% DESIGN, PRE-NOA PRELIMINARY
 THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.
 ENGINEER: DANIEL J. HEILMAN
 LICENSE NO.: 86936
 DATE: 03/10/2026

FOR

CITY of CORPUS CHRISTI
 TEXAS
 Department of Engineering Services

TBPPELS Firm
 Registration No. F-754
 Project No. 10400452

SOUTH BAY PARK SHORELINE IMPROVEMENTS	DRAINAGE AREA MAP
--	-------------------

SHEET 17 of 26
 RECORD DRAWING NO.
 CP-XXX
 CITY PROJECT # 23035

UPDATED: 3/10/2026

ALIGNMENT PROPOSED STORM LINE TABLE							
NUMBER	START STA	LENGTH	RADIUS	LINE/CHORD DIRECTION	START POINT (N,E)	END POINT (N,E)	END STATION
L-1	1+00	26.47'	NA	N19°30'36"W	17141670.13, 1366819.83	17141695.08, 1366810.99	1+26.47
L-2	1+26.47	96.32'	NA	N12°14'23"E	17141695.08, 1366810.99	17141789.21, 1366831.41	2+22.79
L-3	2+22.79	24.32'	NA	S77°45'37"E	17141789.21, 1366831.41	17141784.06, 1366855.18	2+47.11
L-4	2+47.11	127.89'	NA	N31°22'13"E	17141784.06, 1366855.18	17141893.25, 1366921.75	3+75

ALIGNMENT PROPOSED ABM WALKWAY CURVE TABLE							
NUMBER	START STA	LENGTH	RADIUS	LINE/CHORD DIRECTION	START POINT (N,E)	END POINT (N,E)	END STATION
L-5	0+00	5.24'	NA	N21°36'54"E	17141874.48, 1366630.18	17141879.35, 1366632.11	0+05.24
C-1	0+20.20	29.25'	56.46'	N6°46'21"E	17141879.35, 1366632.11	17141908.08, 1366635.52	0+34.49
L-7	0+34.49	21.97'	NA	N8°04'13"W	17141908.08, 1366635.52	17141929.83, 1366632.44	0+56.46
C-2	0+65.09	16.48'	22.47'	N12°56'10"E	17141929.83, 1366632.44	17141945.53, 1366636.04	0+72.94
L-8	0+72.94	37.72'	NA	N33°56'33"E	17141945.53, 1366636.04	17141976.82, 1366657.11	1+10.66
C-3	1+16.41	8.55'	5.00'	N82°55'40"E	17141976.82, 1366657.11	17141977.75, 1366664.60	1+19.21
L-9	1+19.21	46.62'	NA	S48°05'12"E	17141977.75, 1366664.60	17141946.61, 1366699.29	1+65.83
C-4	1+66.58	1.49'	5.00'	S56°37'27"E	17141946.61, 1366699.29	17141945.79, 1366700.53	1+67.32
L-10	1+67.32	135.76'	NA	S65°09'41"E	17141945.79, 1366700.53	17141888.76, 1366823.73	3+03.08
C-5	3+09.05	8.73'	5.00'	S15°07'47"E	17141888.76, 1366823.73	17141881.37, 1366825.73	3+11.81
L-11	3+11.81	20.75'	NA	S34°54'07"W	17141881.37, 1366825.73	17141864.34, 1366813.86	3+32.57

ALIGNMENT PROPOSED EAST WALKWAY CURVE TABLE							
NUMBER	START STA	LENGTH	RADIUS	LINE/CHORD DIRECTION	START POINT (N,E)	END POINT (N,E)	END STATION
C-6	0+15.85	30.03'	38.03'	N27°31'56"W	17141713.05, 1366822.19	17141738.99, 1366808.67	0+30.03
L-12	0+30.03	20.73'	NA	N4°54'42"W	17141738.99, 1366808.67	17141759.65, 1366806.89	0+50.76
C-7	0+73.70	44.61'	77.64'	N11°32'49"E	17141759.65, 1366806.89	17141802.75, 1366815.70	0+95.37
L-13	0+95.37	1.58'	NA	N28°00'21"E	17141802.75, 1366815.70	17141804.15, 1366816.44	0+96.95
C-8	1+02.79	11.40'	21.46'	N12°46'45"E	17141804.15, 1366816.44	17141815.14, 1366818.93	1+08.35
L-14	1+08.35	3.94'	NA	N2°26'50"W	17141815.14, 1366818.93	17141819.07, 1366818.77	1+12.29

ALIGNMENT PROPOSED WALKWAY PATCH LINE TABLE							
NUMBER	START STA	LENGTH	RADIUS	LINE/CHORD DIRECTION	START POINT (N,E)	END POINT (N,E)	END STATION
L-15	0+00	25.76'	NA	N29°16'46"E	17141693.39, 1366794.13	17141715.86, 1366806.73	0+25.76
L-16	0+25.76	10.75'	NA	N33°24'58"E	17141715.86, 1366806.73	17141724.83, 1366812.65	0+36.50

ABM WALKWAY			
POINT NO.	NORTHING	EASTING	ELEVATION (FT.)
1	17141874.48	1366630.18	8.5
2	17141879.35	1366632.11	8.3
3	17141893.49	1366635.69	8.0
4	17141908.08	1366635.52	8.0
5	17141929.83	1366632.44	9.1
6	17141938.01	1366632.79	9.3
7	17141945.53	1366636.04	9.1
8	17141976.82	1366657.11	6.4
9	17141978.99	1366660.64	6.0
10	17141977.75	1366664.60	6.0
11	17141946.61	1366699.29	6.0
12	17141946.15	1366699.88	6.0
13	17141945.78	1366700.53	6.0
14	17141888.76	1366823.73	6.0
15	17141885.53	1366826.46	6.0
16	17141881.37	1366825.73	6.0
17	17141864.34	1366813.86	8.5

EAST SIDEWALK			
POINT NO.	NORTHING	EASTING	ELEVATION (FT.)
18	17141713.05	1366822.19	0.00
19	17141738.99	1366808.67	6.35
20	17141749.80	1366807.34	6.63
21	17141762.41	1366806.71	7.07
22	17141783.19	1366808.47	8.01
23	17141802.75	1366815.70	8.39
24	17141804.15	1366816.44	8.38
25	17141809.48	1366818.42	8.23
26	17141815.14	1366818.93	8.33
27	17141819.07	1366818.77	8.52

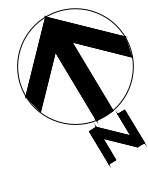
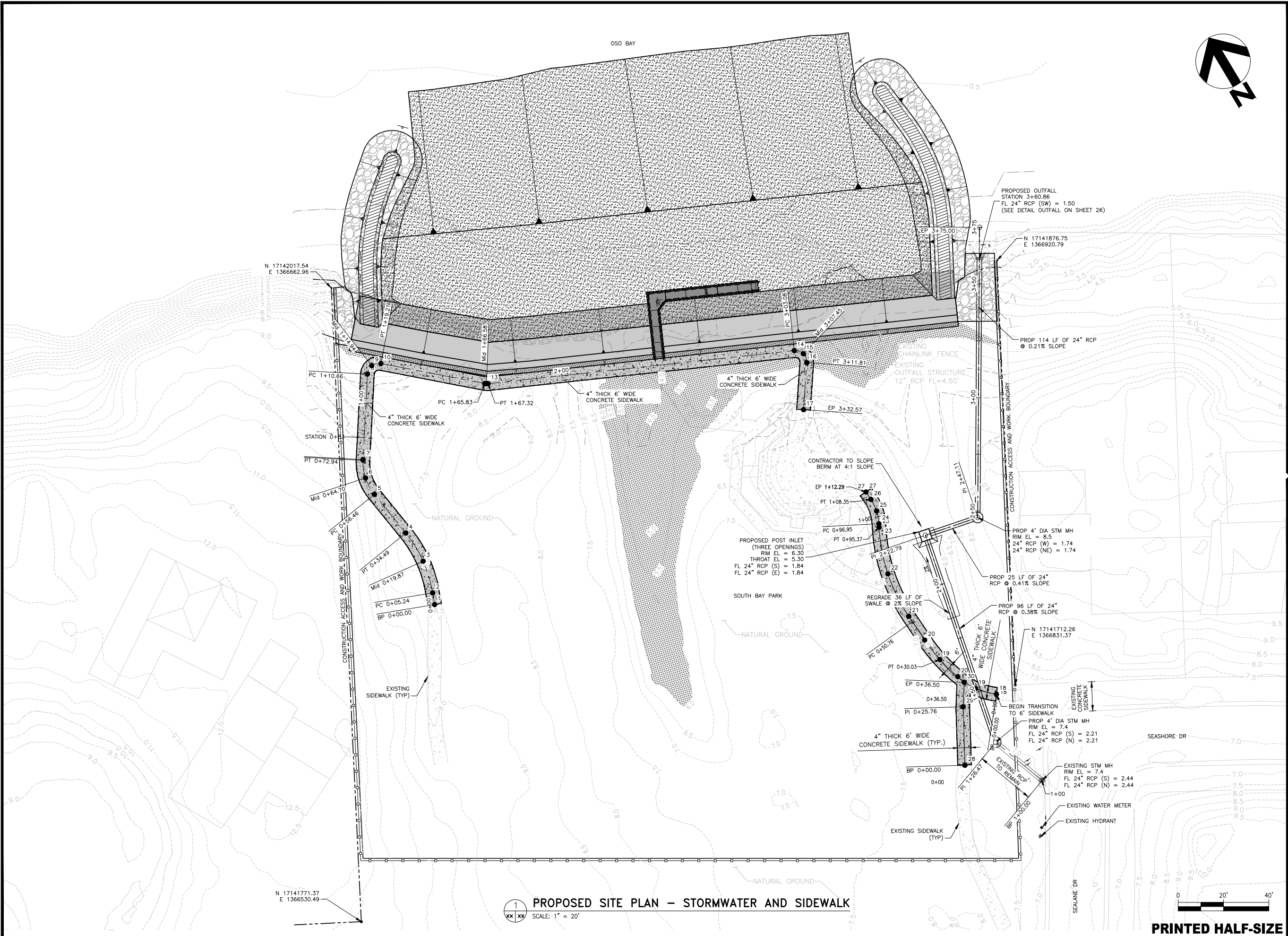
SIDEWALK PATCH			
POINT NO.	NORTHING	EASTING	ELEVATION (FT.)
28	17141693.39	1366794.13	0.00
29	17141715.86	1366806.73	0.00
30	17141724.83	1366812.65	0.00

CONSULTANT'S SHEET NO. 10C-02	
<p>100% DESIGN, PRE-NOA PRELIMINARY</p> <p>THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.</p> <p>ENGINEER: DANIEL J. HEILMAN LICENSE NO.: 86936 DATE: 03/10/2026</p>	
<p>FOR TBPPELS Firm Registration No. F-754 Project No. 10400452</p>	
<p>CITY of CORPUS CHRISTI TEXAS Department of Engineering Services</p>	
SOUTH BAY PARK SHORELINE IMPROVEMENTS	ALIGNMENT DATA SHEET
SHEET 18 of 26 RECORD DRAWING NO. CP-XXX	
CITY PROJECT # 23035	

REVISION NO.	DATE	BY	DESCRIPTION
B	02/2025	DJH	90% PRELIMINARY DESIGN REVIEW
A	10/2024	DJH	60% PRELIMINARY DESIGN REVIEW
---	03/10/2026	DJH	INTERIM CHECK PLOT (PRE-FINAL DESIGN, PRE-NOA)

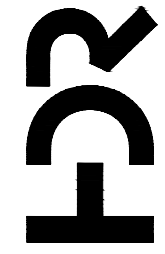

PRINTED HALF-SIZE

UPDATED: 3/10/2026



PROPOSED SITE PLAN - STORMWATER AND SIDEWALK
 SCALE: 1" = 20'

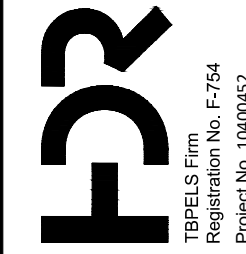
PRINTED HALF-SIZE

CONSULTANT'S SHEET NO. 10C-03	
100% DESIGN, PRE-NOA PRELIMINARY <small>THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.</small> ENGINEER: DANIEL J. HELLMAN LICENSE NO.: 86936 DATE: 03/10/2026	
 TBPELS Firm Registration No. F-754 Project No. 10400452	
 CITY OF CORPUS CHRISTI TEXAS Department of Engineering Services	
SOUTH BAY PARK SHORELINE IMPROVEMENTS PROPOSED SITE PLAN - STORMWATER AND SIDEWALK	
SHEET 19 of 26	
RECORD DRAWING NO. CP-XXX	
CITY PROJECT #23035	
REVISION NO.	DESCRIPTION
B	90% PRELIMINARY DESIGN REVIEW
A	60% PRELIMINARY DESIGN REVIEW
D/J/H	D/J/H
DATE	DATE
02/2025	10/2024
BY	BY
D/J/H	D/J/H
DATE	DATE
03/10/2026	03/10/2026
BY	BY
D/J/H	D/J/H
DESCRIPTION	DESCRIPTION
INTERIM CHECK PLOT (PRE-FINAL DESIGN, PRE-NOA)	INTERIM CHECK PLOT (PRE-FINAL DESIGN, PRE-NOA)

100% DESIGN, PRE-NOA PRELIMINARY

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

ENGINEER: DANIEL J. HELLMAN
 LICENSE NO.: 86936
 DATE: 03/10/2026



CITY of CORPUS CHRISTI TEXAS
 Department of Engineering Services

SOUTH BAY PARK SHORELINE IMPROVEMENTS

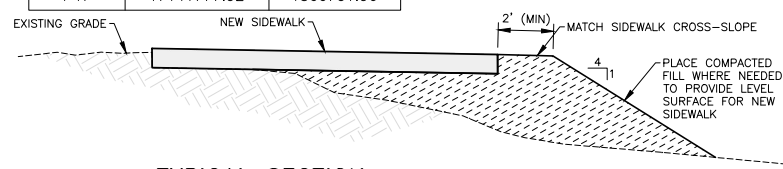
PROPOSED GRADING PLAN - STORMWATER AND SIDEWALK

SHEET 20 of 26
 RECORD DRAWING NO. CP-XXX
 CITY PROJECT #23035

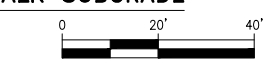
NOTES:

1. NO GRADING OR OTHER GROUND DISTURBANCE SHALL OCCUR BEYOND THE CONSTRUCTION ACCESS AND WORK BOUNDARY SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL NOT ACCESS OR DISTURB ADJACENT PRIVATE PROPERTY.
2. TEMPORARY SILT FENCE SHALL BE INSTALLED PRIOR TO GRADING OR OTHER SITEWORK THAT RESULTS IN GROUND DISTURBANCE. COST FOR TEMPORARY SILT FENCE IS SUBSIDIARY TO MOBILIZATION COSTS UNDER BID ITEMS A-1, B-1, C-1, AND D-1 AS STATED IN SPECIFICATION SECTION 01 29 01 (MEASUREMENT AND BASIS FOR PAYMENT). NO SEPARATE PAYMENT WILL BE MADE FOR PROCUREMENT, INSTALLATION, MAINTENANCE, OR REMOVAL OF SILT FENCE.
3. PLACE CONTRACTOR-FURNISHED FILL MATERIAL WHERE NEEDED TO COMPLETE SPECIFIED SITE FILLING AND GRADING. REFER TO SECTION 31 22 13 (SITE EXCAVATION AND GRADING) FOR CONTRACTOR-FURNISHED FILL MATERIAL REQUIREMENTS.
4. UPON COMPLETION OF SITE FILLING AND FINISHED GRADING, BLOCK SODDING SHALL BE INSTALLED AT ALL NATURAL GROUND SURFACES WHERE GROUND DISTURBANCES OCCURRED. REFER TO SPECIFICATION 02 80 40 FOR SOD REQUIREMENTS.

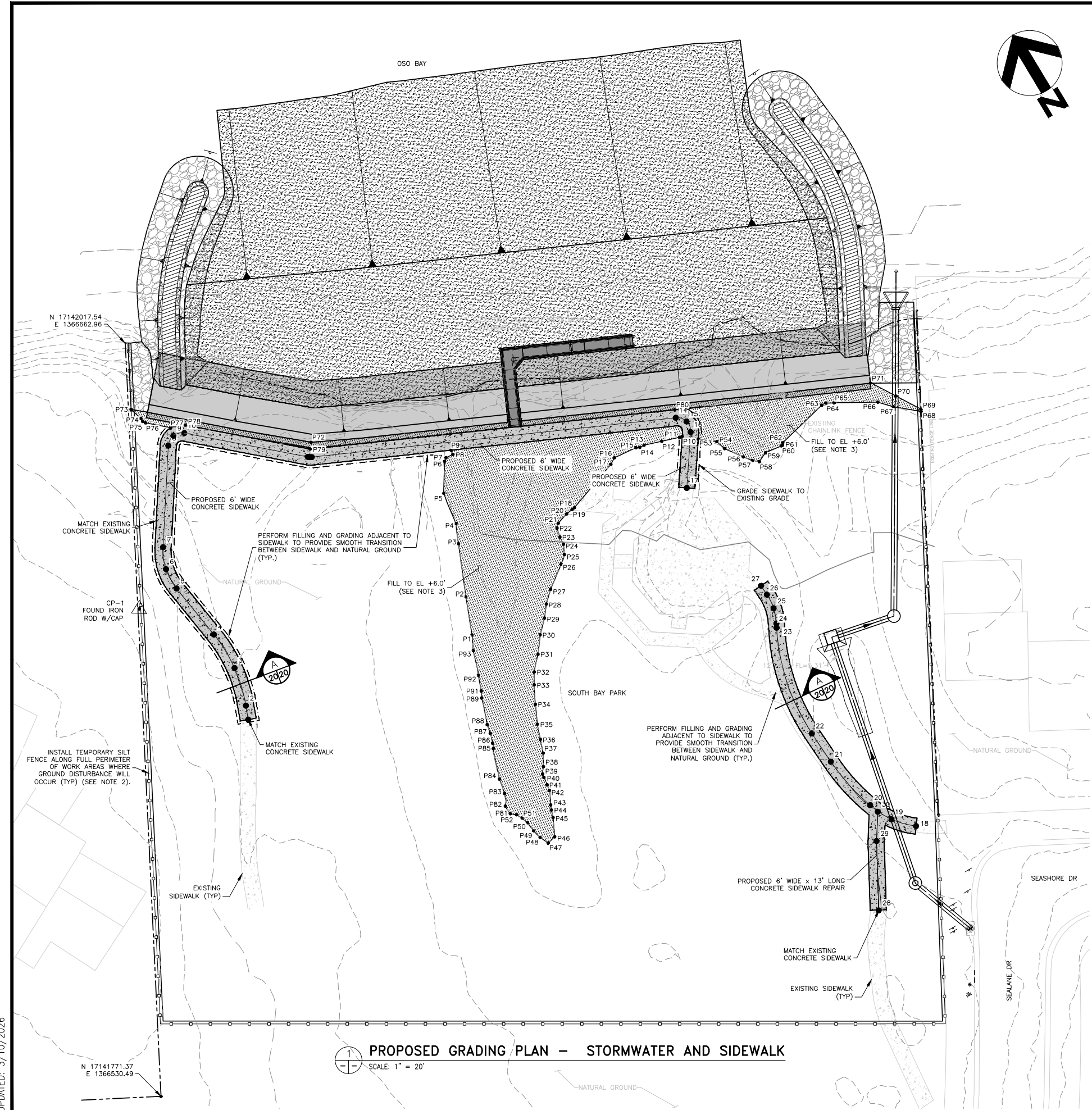
BOUNDARY COORDINATES FOR SITE FILLING			BOUNDARY COORDINATES FOR SITE FILLING		
POINT NO.	NORTHING	EASTING	POINT NO.	NORTHING	EASTING
P1	17141858.65	1366717.49	P48	17141781.25	1366700.47
P2	17141871.92	1366722.81	P49	17141784.53	1366699.67
P3	17141890.24	1366730.61	P50	17141788.37	1366699.24
P4	17141897.10	1366733.69	P51	17141790.86	1366698.45
P5	17141909.03	1366735.58	P52	17141793.00	1366697.30
P6	17141919.07	1366741.94	P53	17141877.72	1366826.85
P7	17141919.95	1366743.09	P54	17141873.36	1366832.24
P8	17141919.69	1366745.85	P55	17141869.64	1366833.34
P9	17141921.39	1366746.10	P56	17141863.42	1366837.76
P10	17141881.58	1366822.22	P57	17141860.56	1366839.92
P11	17141881.83	1366821.19	P58	17141858.86	1366841.92
P12	17141883.96	1366814.80	P59	17141860.44	1366845.60
P13	17141886.10	1366808.40	P60	17141859.60	1366851.98
P14	17141886.19	1366806.65	P61	17141859.64	1366852.45
P15	17141886.87	1366805.41	P62	17141860.40	1366853.02
P16	17141887.76	1366796.57	P63	17141864.89	1366872.53
P17	17141886.37	1366794.24	P64	17141864.78	1366874.26
P18	17141879.55	1366774.35	P65	17141863.23	1366876.92
P19	17141879.38	1366773.25	P66	17141855.14	1366890.94
P20	17141879.05	1366770.70	P67	17141850.67	1366895.04
P21	17141877.70	1366766.23	P68	17141843.91	1366902.94
P22	17141876.37	1366764.94	P69	17141844.65	1366903.34
P23	17141872.95	1366764.13	P70	17141853.65	1366897.86
P24	17141870.00	1366763.86	P71	17141862.65	1366892.39
P25	17141866.53	1366762.18	P72	17141950.62	1366703.11
P26	17141864.11	1366759.36	P73	17141995.44	1366652.21
P27	17141858.13	1366751.16	P74	17141990.72	1366653.56
P28	17141854.27	1366747.02	P75	17141989.42	1366653.58
P29	17141850.13	1366743.76	P76	17141988.42	1366654.22
P30	17141845.69	1366739.20	P77	17141982.00	1366661.19
P31	17141839.89	1366734.76	P78	17141980.14	1366666.43
P32	17141834.99	1366730.22	P79	17141948.64	1366701.52
P33	17141830.94	1366727.71	P80	17141891.51	1366824.96
P34	17141824.46	1366724.34	P81	17141794.49	1366695.51
P35	17141817.77	1366721.20	P82	17141797.88	1366695.40
P36	17141812.41	1366719.27	P83	17141802.02	1366697.59
P37	17141807.49	1366717.55	P84	17141807.59	1366698.68
P38	17141803.16	1366715.08	P85	17141818.45	1366702.54
P39	17141800.93	1366713.36	P86	17141820.29	1366703.34
P40	17141799.60	1366713.13	P87	17141823.89	1366704.50
P41	17141796.69	1366712.76	P88	17141827.21	1366705.15
P42	17141794.37	1366712.42	P89	17141836.75	1366708.52
P43	17141789.58	1366710.03	P91	17141839.07	1366709.74
P44	17141787.81	1366709.28	P92	17141844.61	1366711.80
P45	17141785.10	1366708.37	P93	17141853.41	1366714.87
P46	17141778.68	1366705.24			
P47	17141777.92	1366701.96			



TYPICAL SECTION - FILL PLACEMENT FOR SIDEWALK SUBGRADE



PRINTED HALF-SIZE



PROPOSED GRADING PLAN - STORMWATER AND SIDEWALK

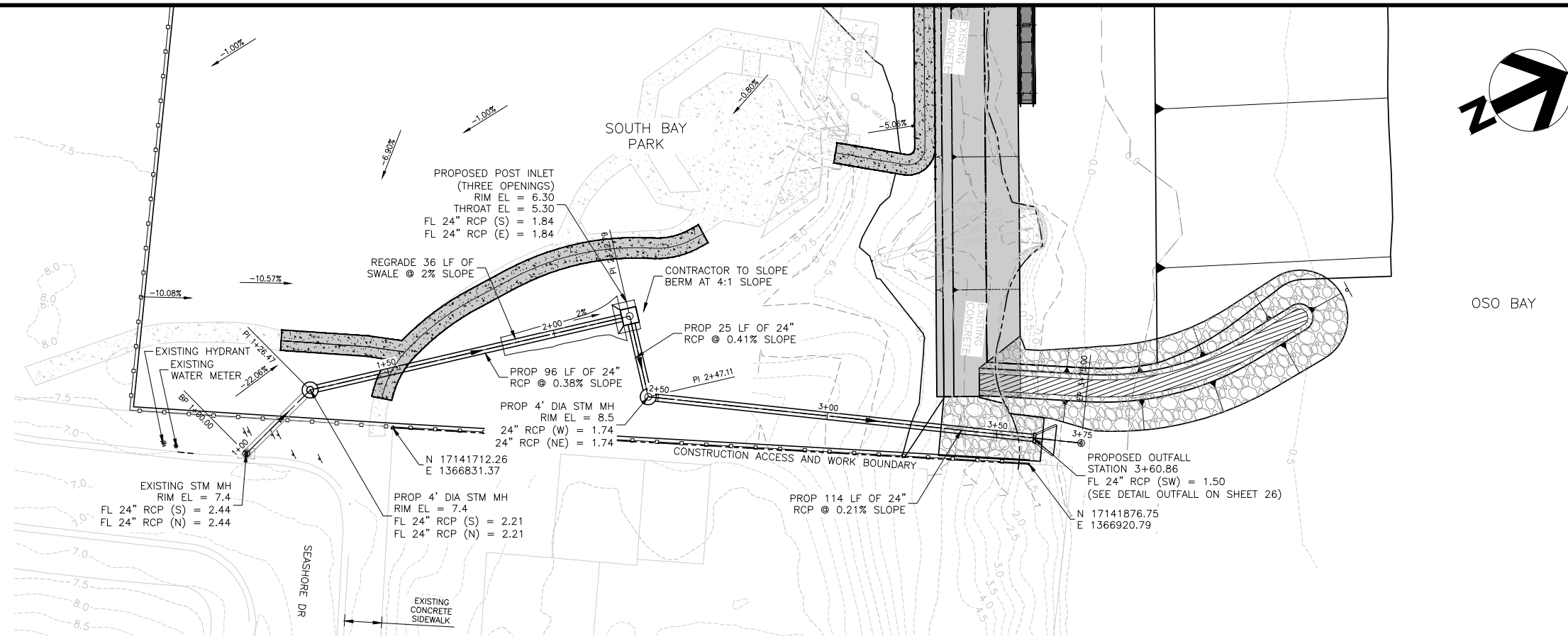
SCALE: 1" = 20'



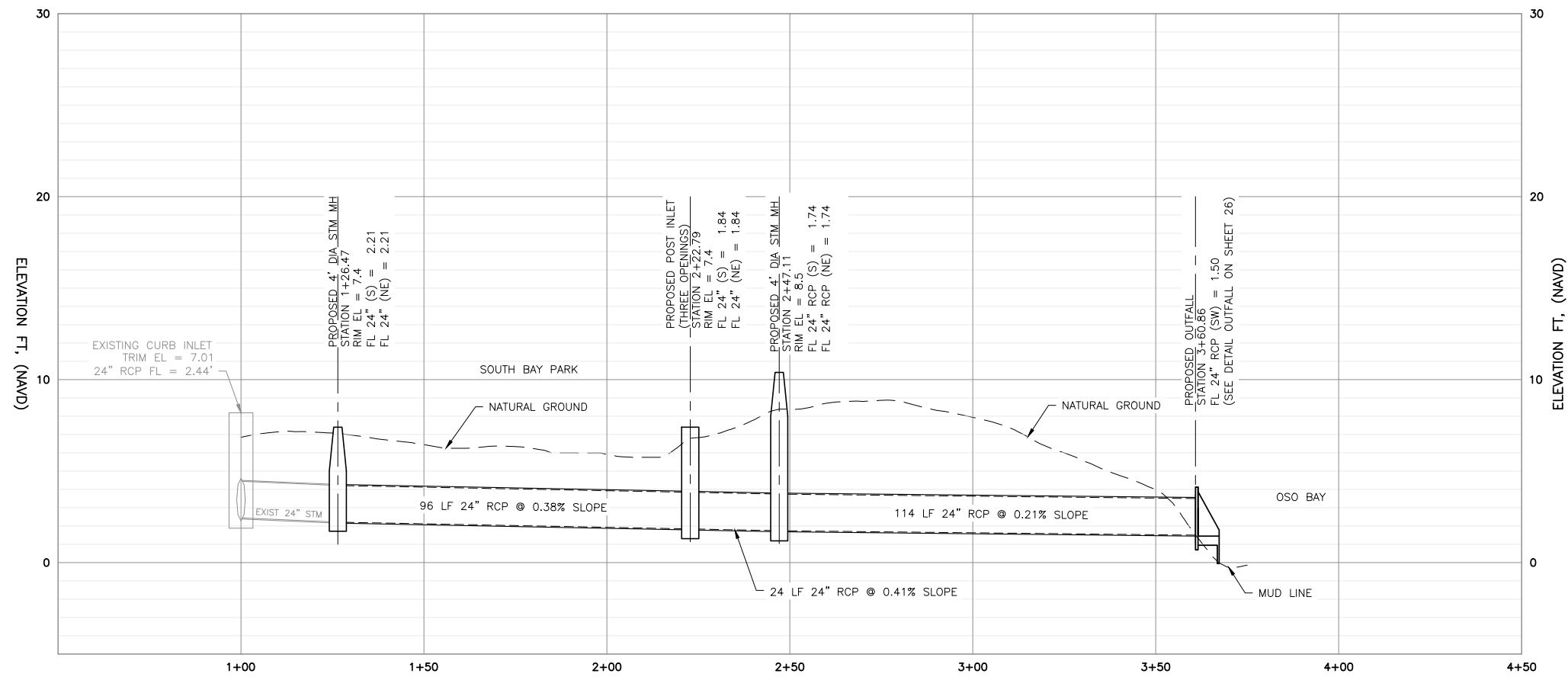
UPDATED: 3/10/2026

N 17141771.37
E 1366530.49

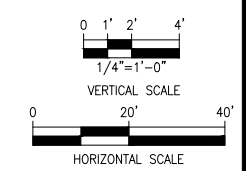
N 17142017.54
E 1366662.96



PROPOSED STORMWATER PLAN
SCALE: 1" = 40' HORIZONTAL SCALE



PROPOSED STORMWATER PROFILE
SCALE: 1" = 40' HORIZONTAL SCALE
SCALE: 1" = 4' VERTICAL SCALE



PRINTED HALF-SIZE

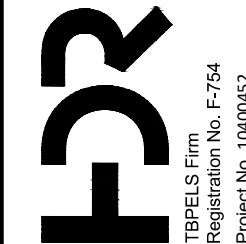
UPDATED: 3/10/2026

CONSULTANT'S SHEET NO. 10C-05	
100% DESIGN, PRE-NOA PRELIMINARY <small>THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.</small> ENGINEER: DANIEL J. HELLMAN LICENSE NO.: 86936 DATE: 03/10/2026	
CITY of CORPUS CHRISTI TEXAS Department of Engineering Services Registration No. F-754 Project No. 10400452	
SOUTH BAY PARK SHORELINE IMPROVEMENTS	PROPOSED STORMWATER PLAN & PROFILE
SHEET <u>21</u> of <u>26</u> RECORD DRAWING NO. CP-XXX	CITY PROJECT #23035

REVISION NO.	DATE	BY	DESCRIPTION
B	02/2025	DJH	90% PRELIMINARY DESIGN REVIEW
A	10/2024	DJH	60% PRELIMINARY DESIGN REVIEW

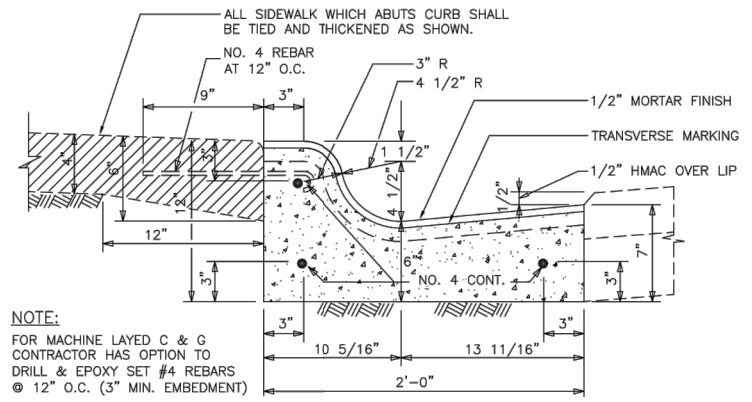
REVISION NO.	DATE	BY	DESCRIPTION

100% DESIGN, PRE-NOA PRELIMINARY
 THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.
 ENGINEER: DANIEL J. HEILMAN
 LICENSE NO.: 86936
 DATE: 03/10/2026



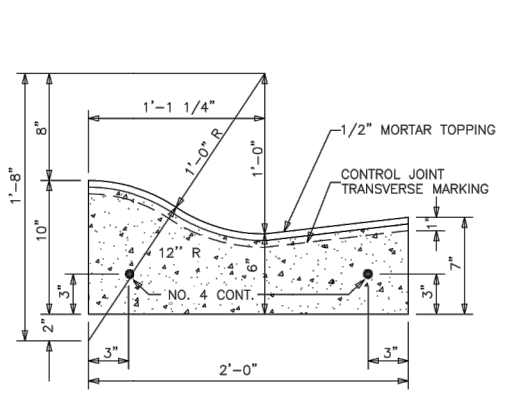
CITY OF CORPUS CHRISTI TEXAS
 Department of Engineering Services

SOUTH BAY PARK SHORELINE IMPROVEMENTS
 COCC CURB, GUTTER & SIDEWALK STANDARD DETAILS



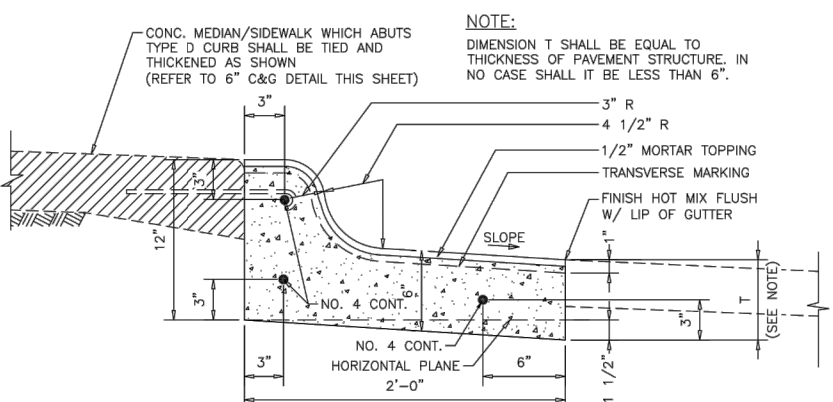
TYPICAL 6" CURB & GUTTER DETAIL

NOT TO SCALE



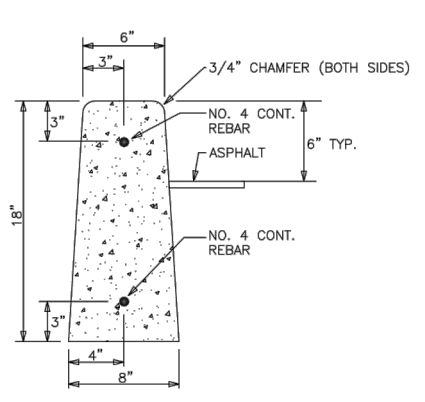
4" CURB & GUTTER DETAIL

NOT TO SCALE



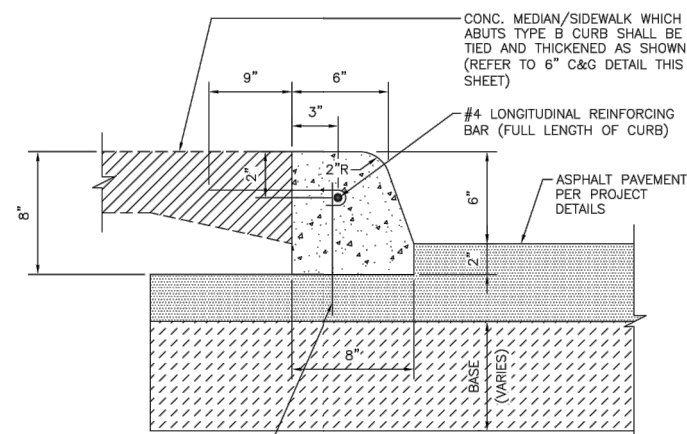
6" REVERSE CURB & GUTTER DETAIL

NOT TO SCALE



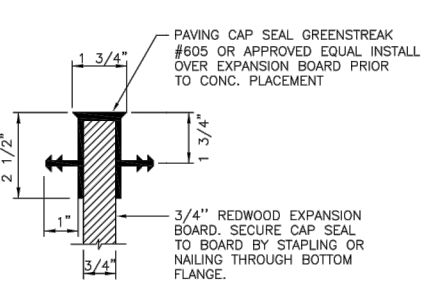
TYPE 'A' HEADER CURB DETAIL

NOT TO SCALE



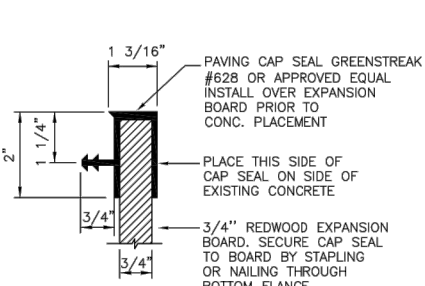
TYPE 'B' HEADER CURB DETAIL

NOT TO SCALE



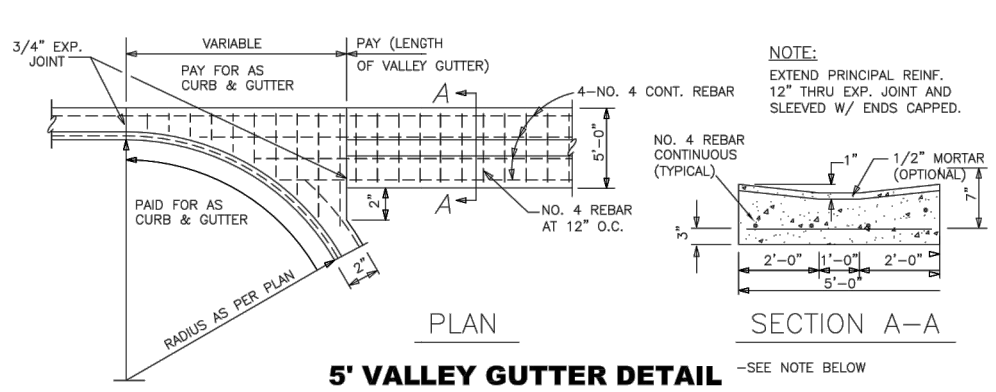
CAP SEAL DETAIL NEW CONC. TO NEW CONC.

NOT TO SCALE



CAP SEAL DETAIL NEW CONC. TO EXIST. CONC.

NOT TO SCALE



5" VALLEY GUTTER DETAIL

NOT TO SCALE

VALLEY GUTTER NOTE:

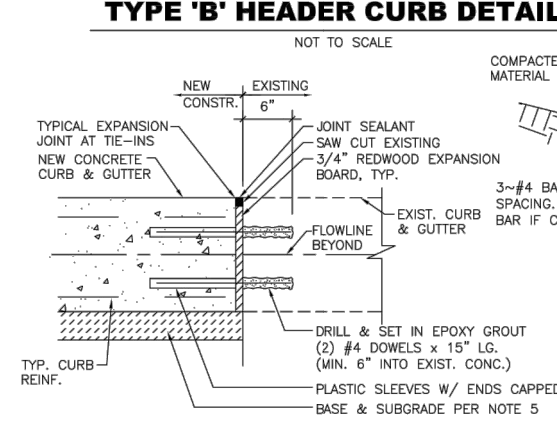
- USE OF VALLEY GUTTERS ON CITY STREETS ARE NOT ALLOWED PER CITY STANDARDS. THIS DETAIL IS INCLUDED ONLY FOR ISOLATED OR TEMPORARY USE IN LOCATIONS WHERE NO OTHER DRAINAGE OPTIONS EXIST, AND SHALL ONLY BE USED WITH PRIOR APPROVAL FROM THE CITY.

CURB & GUTTER AND HEADER CURB NOTES:

- ALL CONCRETE CLASS "A" 3,000 P.S.I. ALL STEEL GRADE 60 fy = 60,000 P.S.I., MIN.
- TRANSVERSE GROOVES 1/8" WIDE BY 1/2" DEEP SHALL BE MADE IN ALL CURB & GUTTER AND HEADER CURB AT 10' O.C. (MAXIMUM).
- 3/4" THICK EXPANSION JOINTS SHALL BE PROVIDED AT 39'-0" CENTERS* (MAXIMUM). REINFORCEMENT SHALL CONSIST OF THE NO. 4 DOWELS X 15" LONG SPACED AS INDICATED. THE NO. 4 DOWEL SHALL BE EXTENDED ACROSS THE JOINT 9 INCHES AND THIS END SHALL BE SLEEVED WITH ENDS CAPPED.
- WHERE NEW CURB & GUTTER OR HEADER CURB JOINS EXISTING CURB & GUTTER, TRANSITION THE LAST 10' OF THE NEW TO MATCH THE OLD IN SHAPE.
- BASE, SUB-BASE, AND SUBGRADE THICKNESS UNDER CONCRETE CURB AND GUTTER TO BE AS SPECIFIED IN THE PROJECT SPECIFICATIONS AND PROJECT DETAILS, PER LOADING DESIGN CONDITIONS. REFER TO THE PROJECT SPECIFIC STREET SECTION(S) AND RELATED PROJECT DETAILS SHOWN ON THE DRAWINGS. BOTH THE TREATED SUBGRADE (8" MINIMUM) AND THE FLEXIBLE BASE (4" MINIMUM) OR EQUIVALENT SHALL EXTEND A MINIMUM OF 1' BEYOND THE BACK OF CURB.
- TYPICAL 6" CURB & GUTTER DETAIL IS CITY STANDARD AND SHALL BE USED IN MOST CASES. DETAILS FOR 4" CURB & GUTTER, 6" REVERSE CURB & GUTTER, AND HEADER CURBS ARE SPECIALTY ITEMS AND ARE PROVIDED FOR USE AS NEEDED TO ADDRESS PROJECT SPECIFIC CONDITIONS. USE IS SUBJECT TO CITY APPROVAL.
- FINAL ACCEPTANCE OF THE PROJECT SHALL BE CONTINGENT UPON THE CONTRACTOR PROVIDING THE CITY WITH A CERTIFICATION LETTER, FROM THE TEXAS DEPARTMENT OF LICENSING AND REGULATION (TLDR), POLICY AND STANDARDS DIVISION, ARCHITECTURAL BARRIERS SECTION, THAT ALL ADA (AMERICANS WITH DISABILITIES ACT) HANDICAP IMPROVEMENTS, AS CONSTRUCTED, COMPLY WITH THE TEXAS ACCESSIBILITY STANDARDS (TAS) OF THE ARCHITECTURAL BARRIERS ACT ARTICLE 9102, TEXAS CIVIL STATUTES.
- AT LEAST 1' OF THE AREA BEHIND THE CURB SHALL BE BACKFILLED AND COMPACTED (MINIMUM 95% STANDARD PROCTOR DENSITY) IN ACCORDANCE WITH THE SPECIFICATIONS AS SOON AS POSSIBLE AND NO LATER THAN 48 HOURS OF REMOVAL OF FORMS (OR SOONER IN THE EVENT OF INCLEMENT WEATHER) IN ORDER TO PROTECT THE MOISTURE OF THE PAVEMENT STRUCTURE.

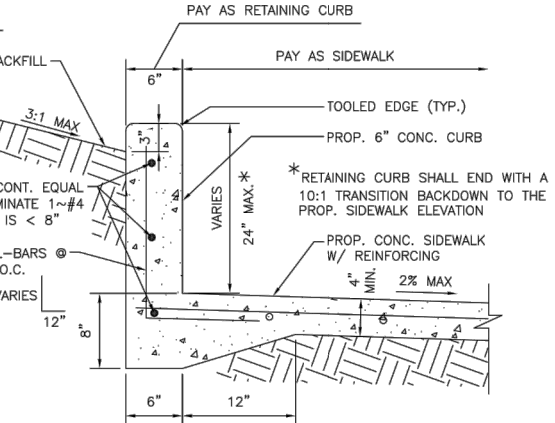
SIDEWALK NOTES:

- ALL EXPANSION JOINTS TO BE 3/4" REDWOOD EXPANSION BOARD, UNLESS OTHERWISE NOTED.
- ALL CONCRETE CLASS "A", 3,000 psi. ALL STEEL, GRADE 60, fy = 60,000 psi.
- CONCRETE TO RECEIVE BROOM FINISH.
- TRANSVERSE CONTRACTION JOINTS 1/8" WIDE BY 1/2" DEEP SHALL BE CUT IN ALL SIDEWALKS AT 5'-0" INTERVALS (TYPICAL) OR THE INTERVALS SHALL BE SPACED TO MATCH THE WIDTH OF THE SIDEWALK.



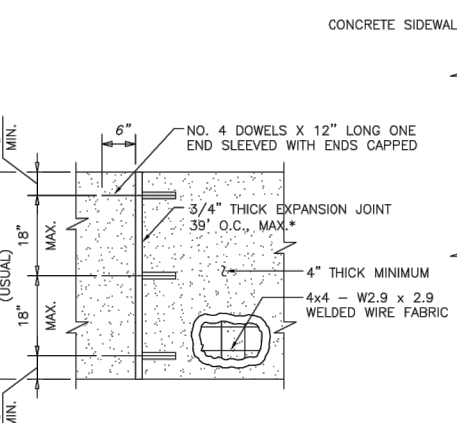
CURB AND GUTTER TIE-IN DETAIL

NOT TO SCALE



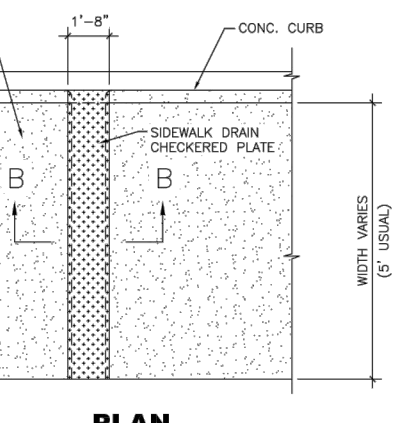
SIDEWALK RETAINING CURB DETAIL

NOT TO SCALE



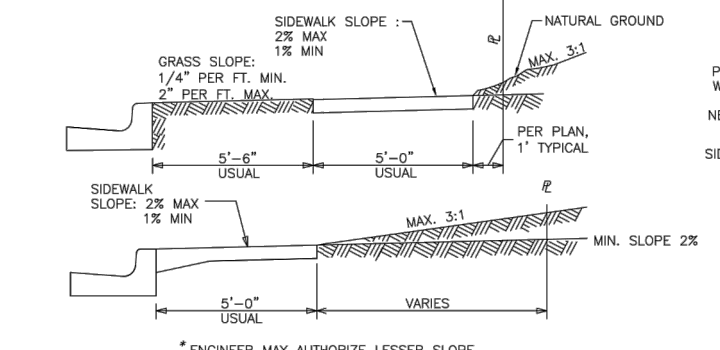
PLAN FOR SIDEWALK

NOT TO SCALE



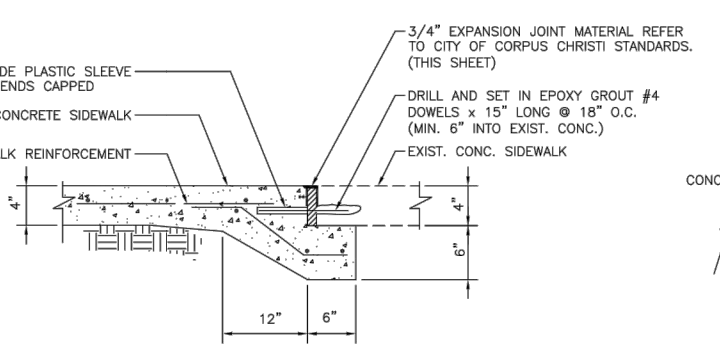
PLAN SIDEWALK DRAIN

NOT TO SCALE



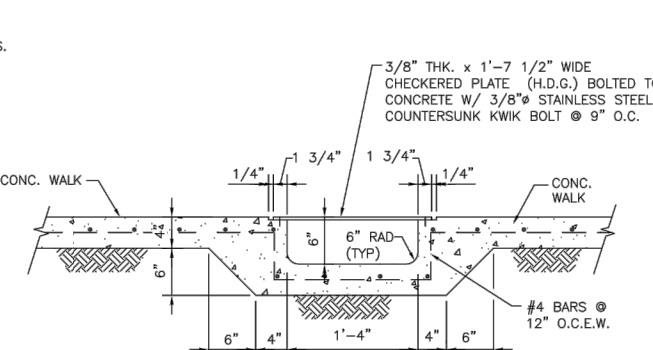
SURFACE & SIDEWALK SLOPE BEHIND CURB

NOT TO SCALE



NEW TO EXISTING SIDEWALK TIE-IN DETAIL

NOT TO SCALE



SECTION B-B

NOT TO SCALE

100% DESIGN, PRE-NOA PRELIMINARY

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

ENGINEER: DANIEL J. HEILMAN
 LICENSE NO.: 86936
 DATE: 03/10/2026

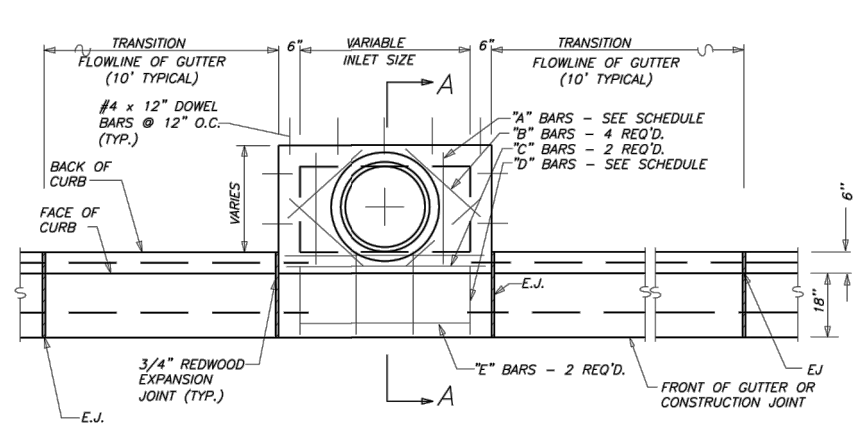


TPBELLS Firm
 Registration No. F-754
 Project No. 10400452

CITY OF CORPUS CHRISTI TEXAS
 Department of Engineering Services

SOUTH BAY PARK SHORELINE IMPROVEMENTS
 COCC STORMWATER STANDARD DETAILS SHEET 1 OF 3

SHEET 23 of 26
 RECORD DRAWING NO. CP-XXX
 CITY PROJECT #23035

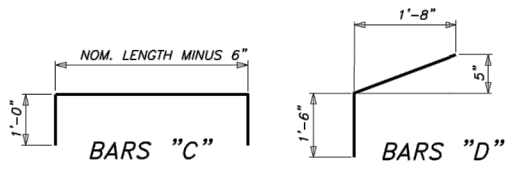


PLAN OF 5' STANDARD INLET

NOT TO SCALE

SPECIAL NOTE:

- CONTRACTOR TO PROVIDE #4 x 12" DOWELS @ 12" O.C. WHERE PROP. SIDEWALK ABUTS INLET. (NO SEPARATE PAYMENT)
- FOR CURB INLET THROAT EXTENSION DETAILS REFER TO STORM WATER STANDARD DETAIL SHEET 3 OF 3.

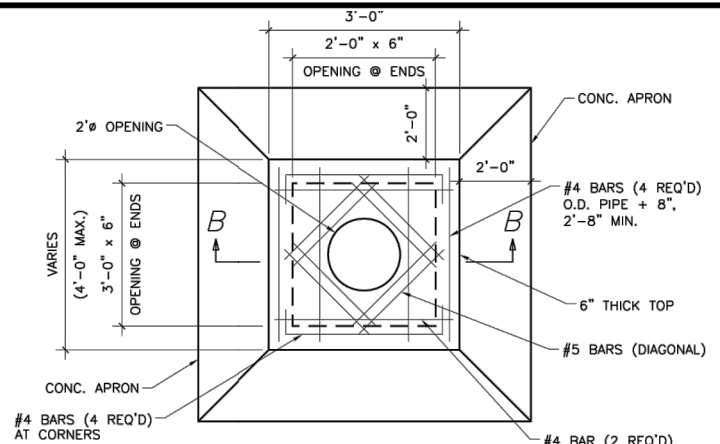


** THROAT OPENINGS SHALL HAVE A 6" X 6" CONCRETE SUPPORT PLACED AT MID-THROAT

* NOMINAL LENGTH OF INLET SHALL BE DESIGNATED AS THE CLEAR WIDTH OPENING.

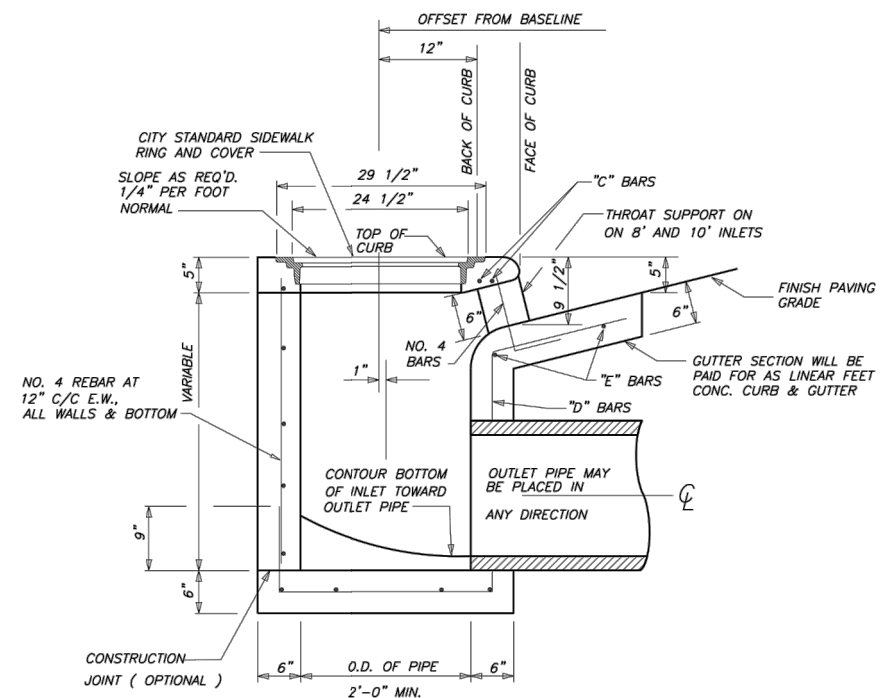
STANDARD CURB INLET STEEL SCHEDULE					
ALL BARS No. 4 PREFORMED					
INLET SIZE (Nom. Length)	NO. REQ'D./LENGTH				
	"A" BARS	"B" BARS	"C" BARS	"D" BARS	"E" BARS
4'	2/a	4/1'-10"	2/5'-6"	4/3'-2"	2/4'-6"
5'	2/a	4/3'-2"	2/6'-6"	4/3'-2"	2/5'-6"
6'	4/a	4/4'-0"	2/7'-6"	6/3'-2"	2/6'-6"
8'	4/a	4/4'-0"	2/9'-6"	6/3'-2"	2/8'-6"
10'	6/a	4/4'-0"	2/11'-6"	7/3'-2"	2/10'-6"

BENDING STRAIGHT STRAIGHT SEE DET. SEE DET. STRAIGHT
 a = O.D. + 8", 2'-8" MIN. MAX. PIPE I.D. = 48 INCHES



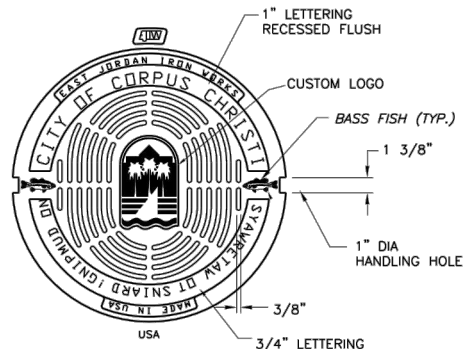
PLAN OF POST INLET

NOT TO SCALE

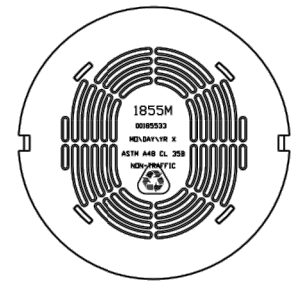


SECTION A-A

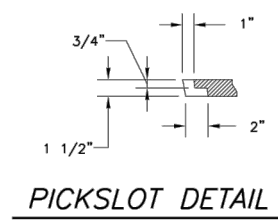
NOT TO SCALE



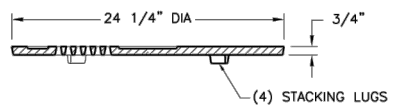
PLAN VIEW



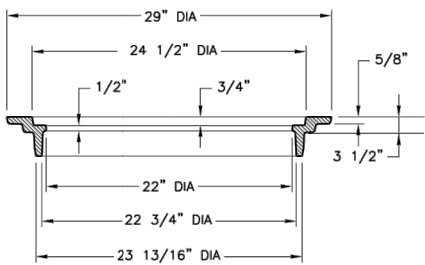
GRATE BLOCK



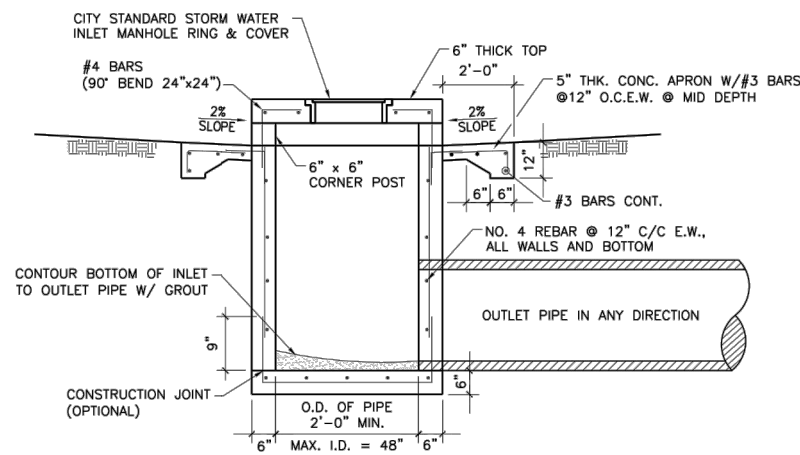
PICKSLOT DETAIL



GRATE SECTION

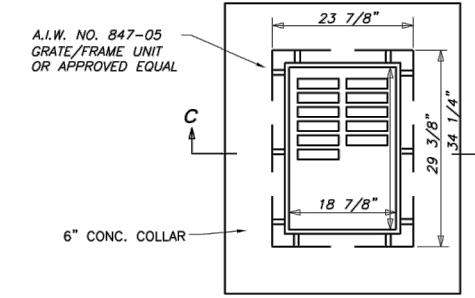


RING SECTION



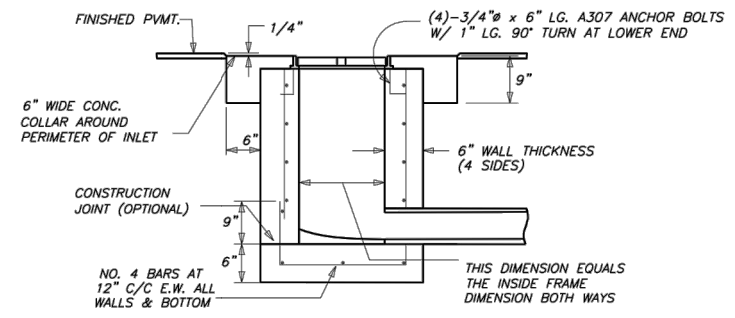
SECTION B-B

NOT TO SCALE



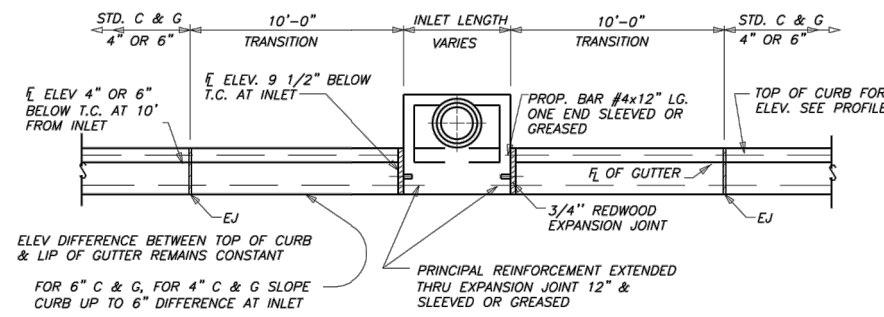
PLAN OF STANDARD GRATE INLET

NOT TO SCALE



SECTION C-C

NOT TO SCALE



FLOWLINE TRANSITION AT INLET FOR 4" OR 6" STD. CURB AND GUTTER

NOT TO SCALE

CITY STANDARD INLET AND SIDEWALK MANHOLE RING & COVER CASTING DETAILS

NOT TO SCALE

INLET AND SIDEWALK MANHOLE RING & COVER NOTES

- MANHOLE RING & COVER SHALL BE EAST JORDAN MANHOLE ASSEMBLY FOR LOAD RATING NON-Traffic.
- THESE DETAILS SHOW GREY-IRON CASTINGS, FILLETED AT ANGLES WITH SHARP AND PERFECT ARISES.
- CASTING SHALL BE TRUE TO PATTERN, FORM, AND DIMENSIONS, FREE FROM CRACKS, SPONGINESS AND BLOWHOLES.
- MACHINE SURFACES TO YIELD FIT WHICH WILL NOT RATTLE WITH PASSING TRAFFIC LOAD.
- TRAFFIC SHALL BE RESTRICTED FROM M.H. FOR 36 HOURS AFTER PLACEMENT OF RING.
- RING AND COVER SHALL BE DIPPED IN COAL TAR OR ASPHALT.
- OTHER CASTING PATTERNS FOR RING & COVERS MAY BE SUBMITTED FOR APPROVAL PROVIDED THE PATTERN OF COVER IS THE SAME AS SHOWN ON THIS SHEET AND PROVIDED OTHER CASTINGS SHALL BE COMPLETELY INTERCHANGEABLE, I.E., THE COVERS OF THIS SHEET SHALL FIT PROPERLY, THE RINGS OF OTHER CASTING DETAILS AND THE COVERS OF OTHER CASTINGS SHALL FIT THE RINGS OF THIS SHEET.
- MINIMUM WEIGHTS OF FINISHED CASTINGS: THE COVER = 60 POUNDS, THE RING = 135 POUNDS.

100% DESIGN, PRE-NOA PRELIMINARY

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

ENGINEER: DANIEL J. HEILMAN
 LICENSE NO.: 86936
 DATE: 03/10/2026

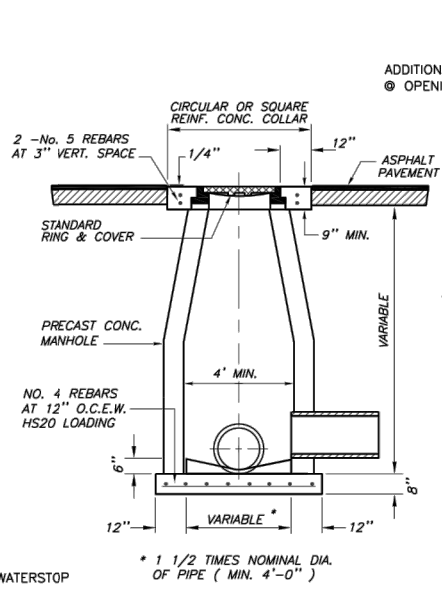


TBPELS Firm
 Registration No. F-754
 Project No. 10400452

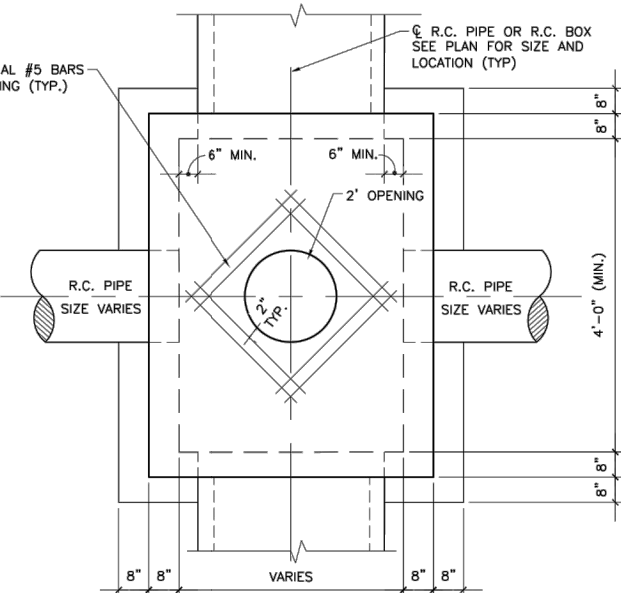
CITY OF CORPUS CHRISTI TEXAS
 Department of Engineering Services

SOUTH BAY PARK SHORELINE IMPROVEMENTS
 COCC STORMWATER STANDARD DETAILS SHEET 2 OF 3

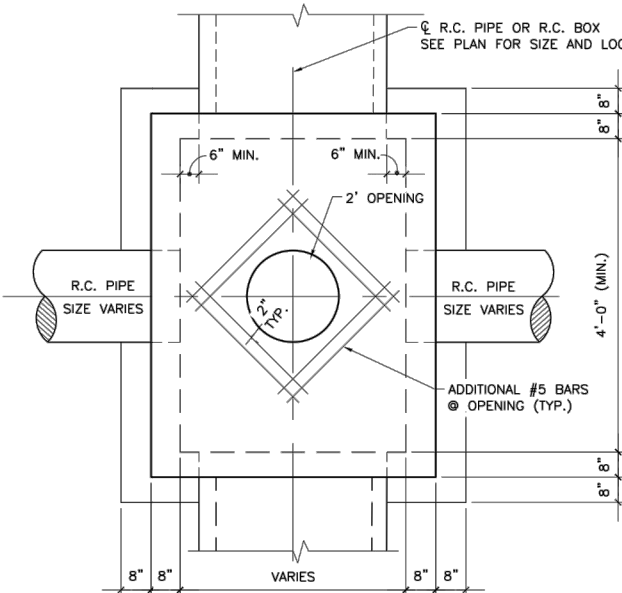
REVISION NO.	DATE	DESCRIPTION
B	02/2025	90% PRELIMINARY DESIGN REVIEW
A	10/2024	60% PRELIMINARY DESIGN REVIEW
D/JH		INTERIM CHECK PLOT (PRE-FINAL DESIGN, PRE-NOA)
D/JH	03/10/2026	DATE
BY		



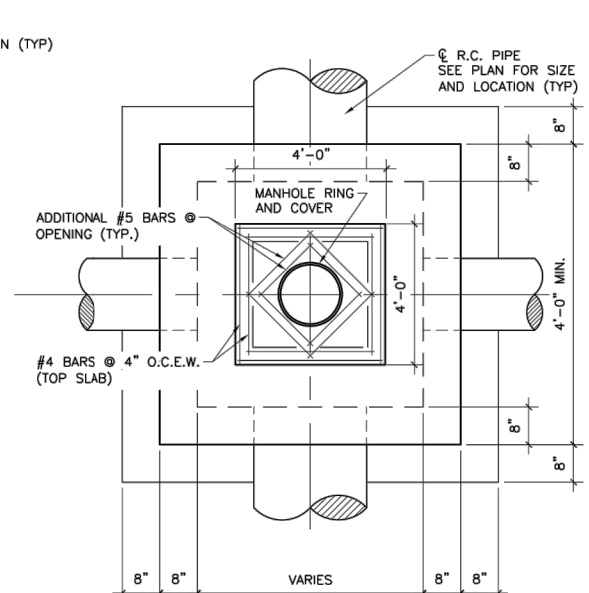
PRE-CAST CONC. MANHOLE NOTES:
 HS20 LOADING
 CONCRETE 28 DAY COMPRESSIVE STRENGTH - 5000 PSI
 REINFORCEMENT STEEL - 60,000 PSI
 REBAR MIN. SPLICE LENGTHS: #4-22" #5-28" #6-33"
 MANHOLE WALL/RISER REINFORCED PER ASTM C-478
 REFER TO NOTE 12 ON THIS SHEET, AND TABLE 1 ON SHEET 25, FOR BEDDING AND BACKFILL REQUIREMENTS.



NOTE:
 FOR R.C. PIPE SIZES, DIRECTION, AND FLOWLINES, REFER TO STREET AND STORM WATER PLAN AND PROFILES



NOTE:
 FOR R.C. PIPE SIZES, DIRECTION, AND FLOWLINES, REFER TO STREET AND STORM WATER PLAN AND PROFILES



NOTE:
 FOR R.C. PIPE SIZES, DIRECTION, AND FLOWLINES, REFER TO STREET AND STORM WATER PLAN AND PROFILES

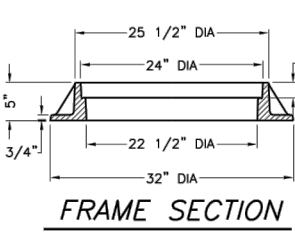
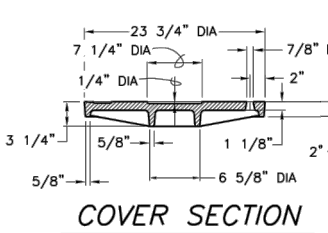
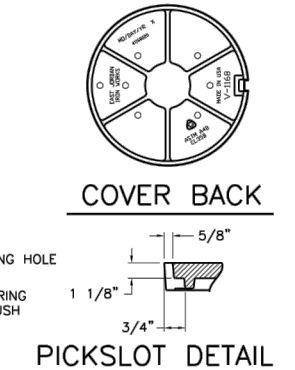
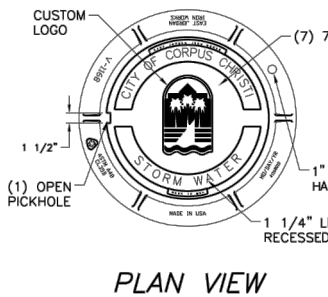
KEYWAY DETAIL
 NOT TO SCALE

TYPE 'A' MANHOLE
 NOT TO SCALE

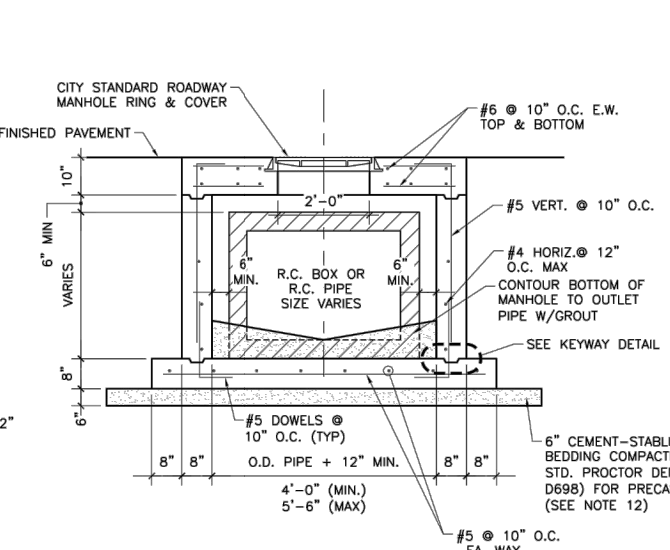
PLAN TYPE 'B' MANHOLE
 NOT TO SCALE

PLAN TYPE 'C' MANHOLE
 NOT TO SCALE

PLAN TYPE 'D' MANHOLE
 NOT TO SCALE

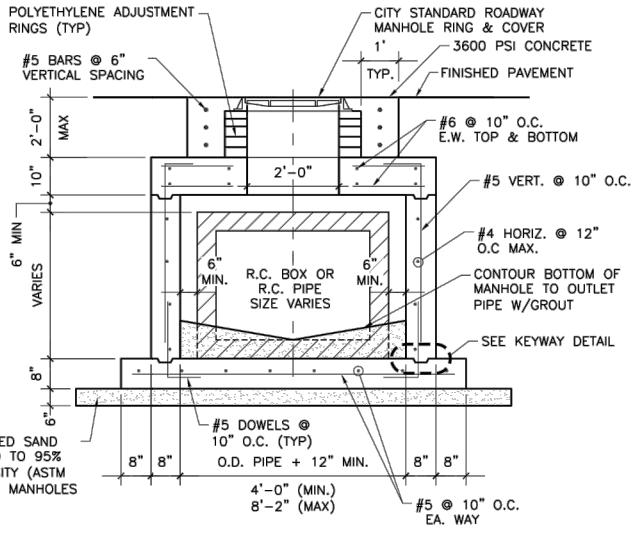


CITY STANDARD ROADWAY MANHOLE RING & COVER CASTING DETAIL
 NOT TO SCALE



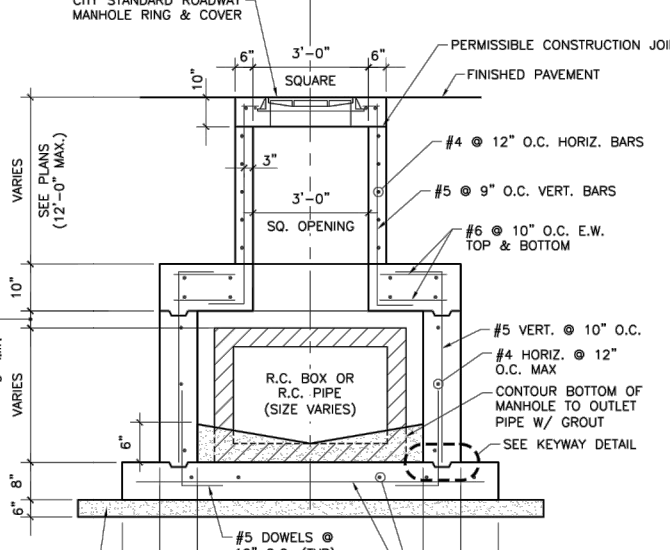
NOTE:
 LATERAL PIPES NOT SHOWN FOR CLARITY

SECTION TYPE 'B' MANHOLE
 NOT TO SCALE



NOTE:
 LATERAL PIPES NOT SHOWN FOR CLARITY

SECTION TYPE 'C' MANHOLE
 NOT TO SCALE



NOTE:
 LATERAL PIPES NOT SHOWN FOR CLARITY

SECTION TYPE 'D' MANHOLE
 NOT TO SCALE

- ROADWAY MANHOLE RING & COVER NOTES**
- MANHOLE RING & COVER SHALL BE EAST JORDAN V 1168 ASSEMBLY AND FOR SCHOOL ZONE SHALL BE EAST JORDAN BOLTED-IN 1168 ASSEMBLY LOAD RATING HEAVY DUTY.
 - THESE DETAILS SHOW GREY-IRON CASTINGS, FILLETED AT ANGLES WITH SHARP AND PERFECT ARISES.
 - CASTING SHALL BE TRUE TO PATTERN, FORM, AND DIMENSIONS, FREE FROM CRACKS, SPONGINESS AND BLOWHOLES.
 - MACHINE SURFACES TO YIELD FIT WHICH WILL NOT RATTLE WITH PASSING TRAFFIC LOAD.
 - TRAFFIC SHALL BE RESTRICTED FROM M.H. FOR 36 HOURS AFTER PLACEMENT OF RING.
 - RING AND COVER SHALL BE DIPPED IN COAL TAR OR ASPHALT.

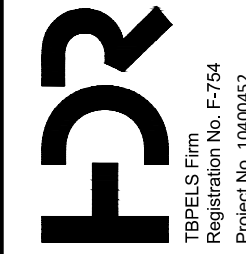
- OTHER CASTING PATTERNS FOR RING & COVERS MAY BE SUBMITTED FOR APPROVAL PROVIDED THE PLAN PATTERN OF COVER IS THE SAME AS SHOWN ON THIS SHEET AND PROVIDED OTHER CASTINGS SHALL BE COMPLETELY INTERCHANGEABLE, I.E., THE COVERS OF THIS SHEET SHALL FIT PROPERLY, THE RINGS OF OTHER CASTING DETAILS AND THE COVERS OF OTHER CASTINGS SHALL FIT THE RINGS OF THIS SHEET.
- MINIMUM WEIGHTS OF FINISHED CASTINGS : THE COVER = 160 POUNDS, THE RING = 180 POUNDS.
- POLYETHYLENE MANHOLE ADJUSTMENT RINGS SHALL BE DESIGNED TO SUPPORT HS 20 TRAFFIC LOADING.

- GENERAL NOTES FOR CONCRETE DRAINAGE STRUCTURES:**
- ALL CONCRETE SHALL BE CLASS "C" (3600 PSI) EXCEPT CITY STANDARD CURB INLETS AND CONCRETE COLLARS MAY BE CLASS "A".
 - ALL REINFORCING STEEL SHALL BE GRADE 60.
 - DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTERS OF BARS.
 - VERTICAL STEEL MAY BE SPLICED (15" MIN. LAP) IN THE LOWER ONE-HALF OF ALL INLET WALLS.
 - IN AREAS OF CONFLICT BETWEEN REINFORCING STEEL, PIPES AND MANHOLE FRAME, THE REINFORCEMENT SHALL BE BENT OR ADJUSTED TO CLEAR AS DIRECTED BY THE ENGINEER.
 - CHAMFER ALL EXPOSED EDGES 3/4".
 - PROVIDE CITY STANDARD SIDEWALK MANHOLE RING AND COVER FOR CITY STANDARD CURB INLET. PROVIDE CITY STANDARD ROADWAY STORM WATER MANHOLE RING AND COVER FOR SPECIAL CURB INLET.

- THE CONTRACTOR MAY PROPOSE ALTERNATE PROCEDURES FOR THE CONSTRUCTION OF INLETS AND MANHOLES, INCLUDING PRECAST UNITS. PLANS FOR SUCH PROPOSED ALTERNATES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL BEFORE CONSTRUCTION. PRECAST MANHOLE WITHIN THE ROADWAY SHALL BE DESIGNED TO SUPPORT HS 20 TRAFFIC LOADING AND SEALED BY A LICENSED ENGINEER.
- ALL INLET WALLS SHALL BE FORMED EXCEPT WHERE THE NATURE OF THE SURROUNDING MATERIAL IS SUCH THAT IT CAN BE TRIMMED TO A SMOOTH VERTICAL FACE. WHEN INLET WALLS ARE PLACED TO NEAT EXCAVATION LINES THE WALL THICKNESS SHALL NOT EXCEED 10 INCHES. PAYMENT FOR INLET AT THE CONTRACT PRICE SHALL INCLUDE THE TRANSITION CURB.
- INVERT OF INLET SHALL BE SLOPED 1:20 WITH GROUT.

- NO SPLICING OF REINFORCING STEEL SHALL BE PERMITTED EXCEPT WHERE OTHERWISE NOTED ON THE PLANS OR PERMITTED IN WRITING BY THE ENGINEER.
- IN DEEP EXCAVATIONS (> 20') OR BELOW WATER TABLE, USE CRUSHED STONE OR CRUSHED GRAVEL MEETING GRADATION OF CONCRETE COARSE AGGREGATE; TxDOT ITEM #21; GRADE 2, 3, OR 4.

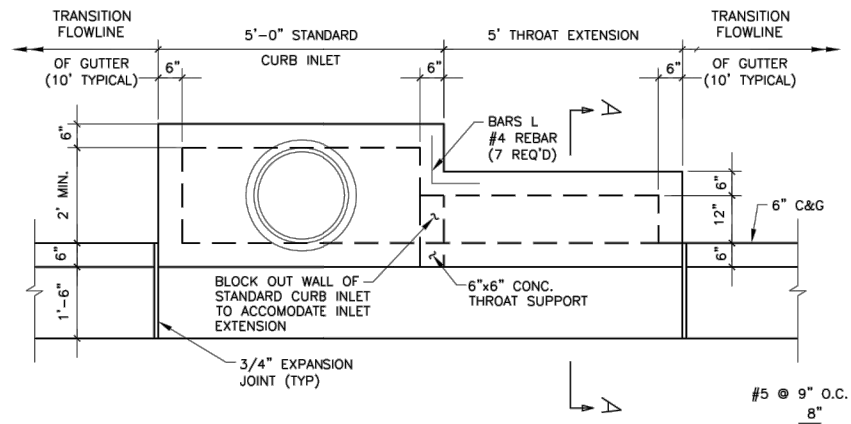
100% DESIGN, PRE-NOA PRELIMINARY
 THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.
 ENGINEER: DANIEL J. HEILMAN
 LICENSE NO.: 86936
 DATE: 03/10/2026



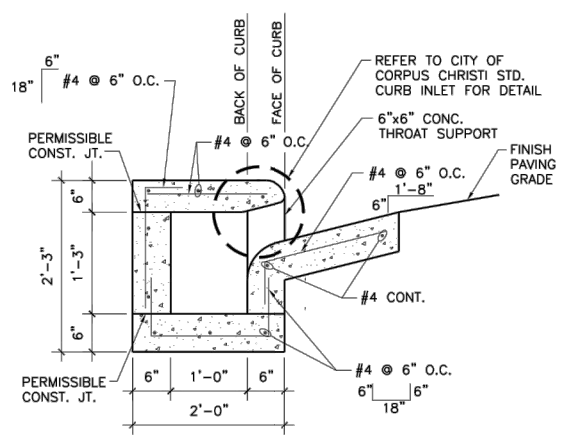
CITY OF CORPUS CHRISTI TEXAS
 Department of Engineering Services
 TBPELS Firm
 Registration No. F-754
 Project No. 10400452

SOUTH BAY PARK SHORELINE IMPROVEMENTS
 COCC STORMWATER STANDARD
 DETAILS SHEET 3 OF 3

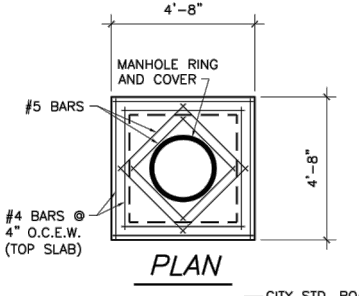
SHEET 25 of 26
 RECORD DRAWING NO. CP-XXX
 CITY PROJECT #23035



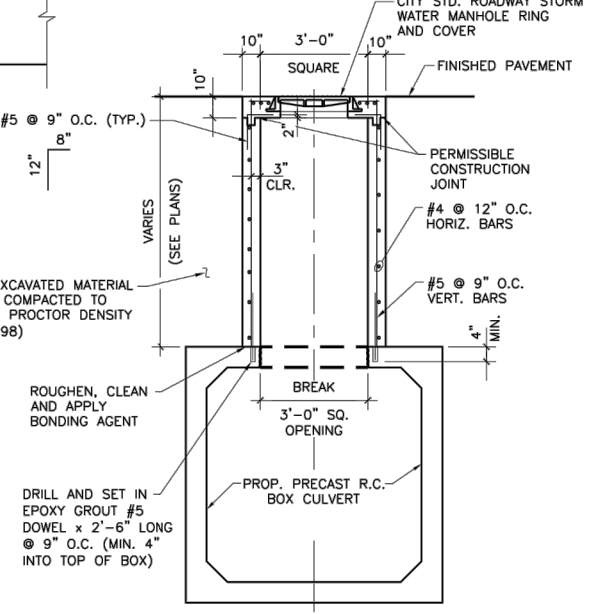
CURB INLET THROAT EXTENSION PLAN
 NOT TO SCALE



SECTION A-A
 NOT TO SCALE

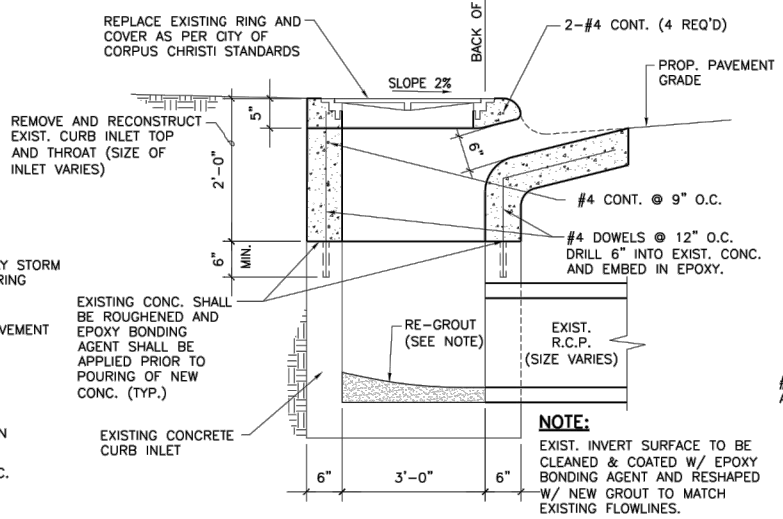


PLAN

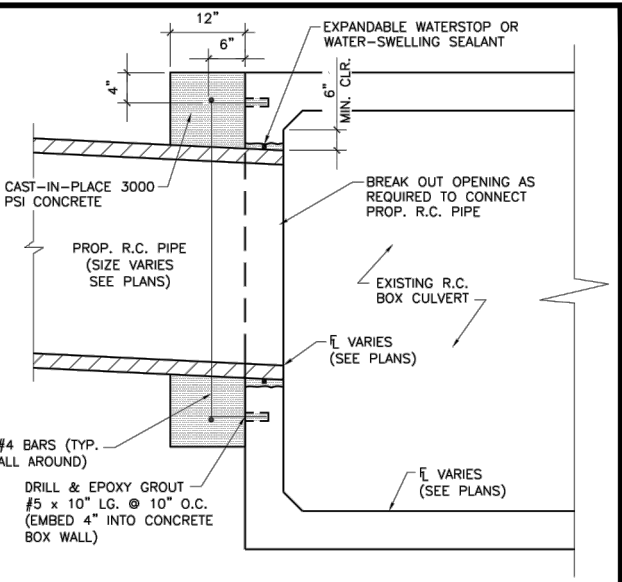


SECTION

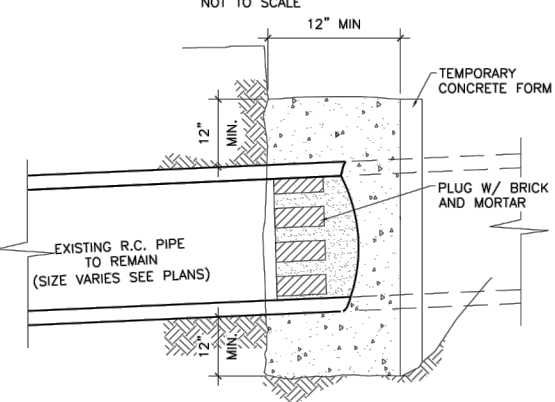
MANHOLE RISER DETAIL
 NOT TO SCALE



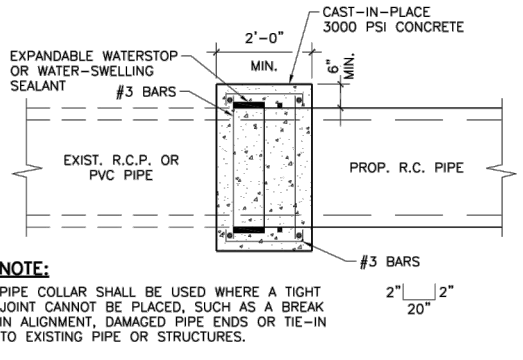
REMOVE AND REPLACE TOP OF EXISTING CURB INLET DETAIL
 NOT TO SCALE



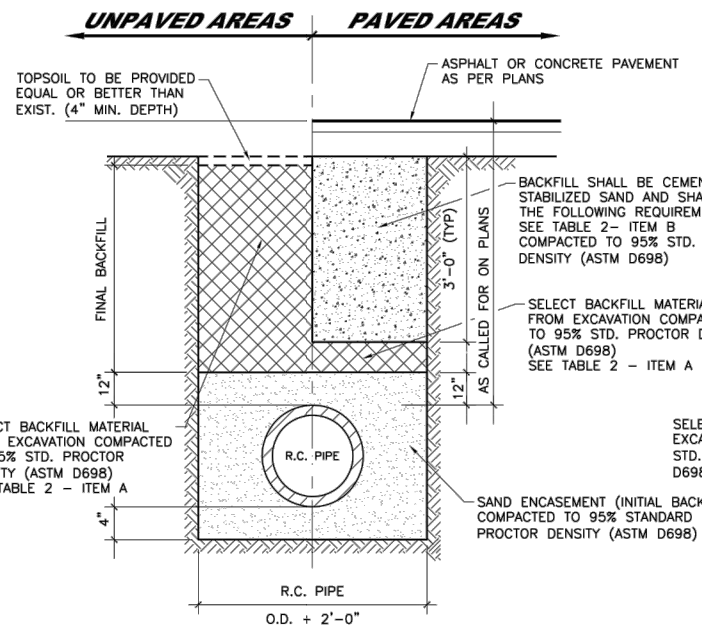
PROP. PIPE TO EXISTING R.C. BOX CONNECTION DETAIL
 NOT TO SCALE



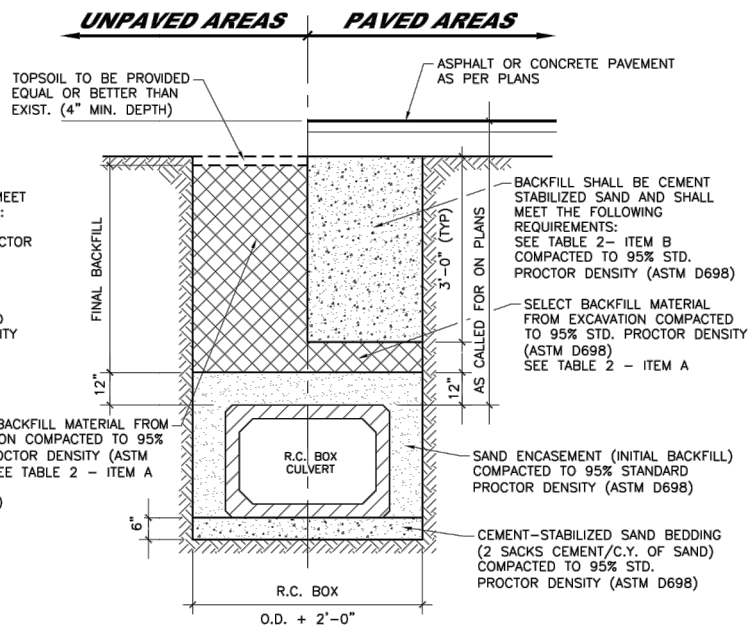
EXISTING R.C. PIPE PLUG
 NOT TO SCALE



CONCRETE COLLAR DETAIL
 NOT TO SCALE



TRENCH BACKFILL FOR STORM WATER PIPES
 NOT TO SCALE



TRENCH BACKFILL FOR STORM WATER R.C. BOX CULVERTS
 NOT TO SCALE

NOTE: (CONCRETE PAVEMENT ONLY)
 CONTRACTOR HAS OPTION TO USE CEMENT STABILIZED SAND OR BACKFILL WITH SELECT BACKFILL MATERIAL.

GENERAL NOTES FOR BACKFILL

TABLE 1 BEDDING AND INITIAL BACKFILL (BELOW PIPE TO 12" ABOVE PIPE)		TABLE 2 FINAL BACKFILL (GREATER THAN 12" ABOVE PIPE)																									
UNPAVED AREAS	PAVED AREAS	UNPAVED AREAS	PAVED AREAS																								
<p>ALL BEDDING AND INITIAL BACKFILL SHALL CONSIST OF GRANULAR MATERIAL CONSISTING OF EITHER NATURAL SAND OR SANDY GRAVEL, OR MATERIAL PRODUCED BY CRUSHING OF NATURAL STONE OR GRAVEL. SEWER LINES:</p> <p>1. EXCAVATIONS <20FT. DEEP AND ABOVE WATER TABLE, USE MATERIAL MEETING THE FOLLOWING CRITERIA.</p> <p>MEETING REQUIREMENTS OF ASTM D2487 FOR:</p> <p>SP GP SW GW SP-SM GP-GM SW-SM GW-GM</p> <p>AND IN ADDITION: PASSING 1/2" SIEVE - 100% PASSING #4 SIEVE - 30% MINIMUM PLASTICITY INDEX (PI) - NP TO 10 MAX.</p> <p>2. IN DEEP EXCAVATIONS (>20') OR BELOW WATER TABLE, USE CRUSHED STONE OR CRUSHED GRAVEL MEETING GRADATION OF:</p> <p>A. CONCRETE COARSE AGGREGATE; TxDOT ITEM 421; GRADE 2, 3, OR 4.</p> <p>FOR ALL UTILITIES:</p> <p>1. FOR PIPE DIAMETER EQUAL TO OR SMALLER THAN 16", USE 4" MINIMUM BEDDING UNDER PIPE.</p> <p>2. FOR PIPE DIAMETER GREATER THAN 16", USE 6" MINIMUM BEDDING UNDER PIPE.</p>																											
<p>BACKFILL SHALL BE CEMENT STABILIZED SAND AND SHALL MEET THE FOLLOWING REQUIREMENTS: SEE TABLE 2 - ITEM B COMPACTED TO 95% STD. PROCTOR DENSITY (ASTM D698)</p> <p>SELECT BACKFILL MATERIAL FROM EXCAVATION COMPACTED TO 95% STD. PROCTOR DENSITY (ASTM D698) SEE TABLE 2 - ITEM A</p> <p>SAND ENCASEMENT (INITIAL BACKFILL) COMPACTED TO 95% STANDARD PROCTOR DENSITY (ASTM D698)</p> <p>CEMENT-STABILIZED SAND BEDDING (2 SACKS CEMENT/C.Y. OF SAND) COMPACTED TO 95% STD. PROCTOR DENSITY (ASTM D698)</p>	<p>BACKFILL SHALL BE CEMENT STABILIZED SAND AND SHALL MEET THE FOLLOWING REQUIREMENTS: SEE TABLE 2 - ITEM B COMPACTED TO 95% STD. PROCTOR DENSITY (ASTM D698)</p> <p>SELECT BACKFILL MATERIAL FROM EXCAVATION COMPACTED TO 95% STD. PROCTOR DENSITY (ASTM D698) SEE TABLE 2 - ITEM A</p> <p>SAND ENCASEMENT (INITIAL BACKFILL) COMPACTED TO 95% STANDARD PROCTOR DENSITY (ASTM D698)</p> <p>CEMENT-STABILIZED SAND BEDDING (2 SACKS CEMENT/C.Y. OF SAND) COMPACTED TO 95% STD. PROCTOR DENSITY (ASTM D698)</p>	<p>FOR 12" ABOVE PIPE TO 3' BELOW BOTTOM OF ROAD BASE: BACKFILL SHALL BE SELECT MATERIAL FROM EXCAVATION OR TO BE IMPORTED MATERIAL AND SHALL MEET THE FOLLOWING:</p> <p>LL < 35 PI 8-20 NO CLUMPS > 2" DIA. MOISTURE 0 TO +3% COMPACT 95% D698 STD PROCTOR</p> <p>LOOSE LIFTS OF 10" MAX OR IF SELECT MATERIAL FROM EXCAVATION DOES NOT MEET REQUIREMENTS, THEN USE CEMENT STABILIZED SAND SEE TABLE 2-ITEM B</p> <p>FOR 3' BELOW BOTTOM OF ROAD BASE TO BOTTOM OF ROAD BASE:</p> <p>BACKFILL SHALL BE CEMENT STABILIZED SAND AND SHALL MEET THE FOLLOWING REQUIREMENTS:</p> <p>SAND GRADATION: % PASSING</p> <table border="1"> <tr><td>1/2"</td><td>100%</td></tr> <tr><td>#4</td><td>55-100</td></tr> <tr><td>#10</td><td>40-100</td></tr> <tr><td>#40</td><td>25-100</td></tr> <tr><td>#200</td><td>10-20</td></tr> <tr><td>PI</td><td>NP-10</td></tr> </table> <p>2 SACKS CEMENT/C.Y. OF SAND. COMPACT TO 95% OF D698. MOISTURE TO BE ADJUSTED TO (+/-2%) OF OPTIMUM.</p>	1/2"	100%	#4	55-100	#10	40-100	#40	25-100	#200	10-20	PI	NP-10	<p>FOR 12" ABOVE PIPE TO 3' BELOW BOTTOM OF ROAD BASE: BACKFILL SHALL BE SELECT MATERIAL FROM EXCAVATION OR TO BE IMPORTED MATERIAL AND SHALL MEET THE FOLLOWING:</p> <p>LL < 35 PI 8-20 NO CLUMPS > 2" DIA. MOISTURE 0 TO +3% COMPACT 95% D698 STD PROCTOR</p> <p>LOOSE LIFTS OF 10" MAX OR IF SELECT MATERIAL FROM EXCAVATION DOES NOT MEET REQUIREMENTS, THEN USE CEMENT STABILIZED SAND SEE TABLE 2-ITEM B</p> <p>FOR 3' BELOW BOTTOM OF ROAD BASE TO BOTTOM OF ROAD BASE:</p> <p>BACKFILL SHALL BE CEMENT STABILIZED SAND AND SHALL MEET THE FOLLOWING REQUIREMENTS:</p> <p>SAND GRADATION: % PASSING</p> <table border="1"> <tr><td>1/2"</td><td>100%</td></tr> <tr><td>#4</td><td>55-100</td></tr> <tr><td>#10</td><td>40-100</td></tr> <tr><td>#40</td><td>25-100</td></tr> <tr><td>#200</td><td>10-20</td></tr> <tr><td>PI</td><td>NP-10</td></tr> </table> <p>2 SACKS CEMENT/C.Y. OF SAND. COMPACT TO 95% OF D698. MOISTURE TO BE ADJUSTED TO (+/-2%) OF OPTIMUM.</p>	1/2"	100%	#4	55-100	#10	40-100	#40	25-100	#200	10-20	PI	NP-10
1/2"	100%																										
#4	55-100																										
#10	40-100																										
#40	25-100																										
#200	10-20																										
PI	NP-10																										
1/2"	100%																										
#4	55-100																										
#10	40-100																										
#40	25-100																										
#200	10-20																										
PI	NP-10																										

PRINTED HALF-SIZE

UPDATED: 3/10/2026

REVISION NO.	DATE	DESCRIPTION
03/10/2026	DJH	INTERIM CHECK PLOT (PRE-FINAL DESIGN, PRE-NOA)
02/2025	DJH	90% PRELIMINARY DESIGN REVIEW
10/2024	DJH	60% PRELIMINARY DESIGN REVIEW

TABLE OF VARIABLE DIMENSIONS AND QUANTITIES FOR ONE HEADWALL (5)

Slope	Dia of Pipe (D)	Values for One Pipe						Values to be Added for Each Add'l Pipe			
		W	X	Y	L	Reinf (Lbs)	Conc (CY) (1)	X and W	Reinf (Lbs)	Conc (CY) (1)	
2:1	12"	4'-7 1/2"	2'-6"	2'-10"	3'-3 1/4"	88	0.6	1'-9"	20	0.2	
	15"	5'-5 3/4"	2'-9 1/2"	3'-4"	3'-10 1/4"	103	0.7	2'-2"	24	0.3	
	18"	6'-4 1/4"	3'-1"	3'-10"	4'-5"	124	0.9	2'-8"	32	0.3	
	21"	7'-2 3/4"	3'-4 1/2"	4'-4"	5'-0"	143	1.1	3'-1"	43	0.4	
	24"	8'-2 1/2"	3'-9 1/2"	4'-10"	5'-7"	164	1.3	3'-7"	50	0.5	
	27"	9'-1"	4'-1"	5'-4"	6'-2"	179	1.5	3'-11"	56	0.6	
	30"	9'-11 1/2"	4'-4 1/2"	5'-10"	6'-8 3/4"	203	1.7	4'-4"	65	0.8	
	33"	10'-10"	4'-8"	6'-4"	7'-3 3/4"	224	2.0	4'-8"	71	0.9	
	36"	11'-8 1/4"	4'-11 1/2"	6'-10"	7'-10 3/4"	249	2.2	5'-1"	81	1.0	
	42"	13'-5 1/4"	5'-6 1/2"	7'-10"	9'-0 1/2"	298	2.8	5'-10"	97	1.3	
	48"	15'-9"	6'-1 1/2"	9'-4"	10'-9 1/4"	360	3.8	6'-7"	117	1.7	
	54"	17'-5 3/4"	6'-8 1/2"	10'-4"	11'-11 1/4"	427	4.5	7'-6"	151	2.1	
60"	19'-2 3/4"	7'-3 1/2"	11'-4"	13'-1"	481	5.3	8'-3"	174	2.5		
66"	20'-11 1/2"	7'-10 1/2"	12'-4"	14'-3"	544	6.2	8'-9"	194	2.9		
72"	22'-8 1/2"	8'-5 1/2"	13'-4"	15'-4 3/4"	601	7.1	9'-4"	213	3.3		
3:1	12"	6'-3"	2'-6"	4'-3"	4'-11"	118	0.8	1'-9"	22	0.2	
	15"	7'-5"	2'-9 1/2"	5'-0"	5'-9 1/4"	137	1.1	2'-2"	28	0.3	
	18"	8'-6 3/4"	3'-1"	5'-9"	6'-7 3/4"	170	1.3	2'-8"	37	0.5	
	21"	9'-8 3/4"	3'-4 1/2"	6'-6"	7'-6"	195	1.6	3'-1"	48	0.6	
	24"	11'-0"	3'-9 1/2"	7'-3"	8'-4 1/2"	227	2.0	3'-7"	58	0.7	
	27"	12'-2"	4'-1"	8'-0"	9'-2 3/4"	251	2.3	3'-11"	67	0.8	
	30"	13'-4"	4'-4 1/2"	8'-9"	10'-1 1/4"	293	2.7	4'-4"	77	1.0	
	33"	14'-5 3/4"	4'-8"	9'-6"	10'-11 3/4"	318	3.1	4'-8"	84	1.2	
	36"	15'-7 3/4"	4'-11 1/2"	10'-3"	11'-10"	351	3.5	5'-1"	96	1.4	
	42"	17'-11 1/2"	5'-6 1/2"	11'-9"	13'-6 3/4"	432	4.5	5'-10"	119	1.7	
	48"	21'-1 3/4"	6'-1 1/2"	14'-0"	16'-2"	537	6.1	6'-7"	146	2.3	
	54"	23'-5 1/2"	6'-8 1/2"	15'-6"	17'-10 3/4"	630	7.3	7'-6"	186	2.9	
60"	25'-9 1/4"	7'-3 1/2"	17'-0"	19'-7 1/2"	719	8.7	8'-3"	219	3.4		
66"	28'-1"	7'-10 1/2"	18'-6"	21'-4 1/4"	811	10.1	8'-9"	242	3.9		
72"	30'-4 3/4"	8'-5 1/2"	20'-0"	23'-1 1/4"	924	11.7	9'-4"	272	4.4		
4:1	12"	7'-10 3/4"	2'-6"	5'-8"	6'-6 1/2"	148	1.1	1'-9"	24	0.3	
	15"	9'-4"	2'-9 1/2"	6'-8"	7'-8 1/2"	181	1.5	2'-2"	32	0.4	
	18"	10'-9 1/2"	3'-1"	7'-8"	8'-10 1/4"	221	1.9	2'-8"	42	0.5	
	21"	12'-2 3/4"	3'-4 1/2"	8'-8"	10'-0"	260	2.3	3'-1"	57	0.7	
	24"	13'-9 1/2"	3'-9 1/2"	9'-8"	11'-2"	301	2.8	3'-7"	67	0.9	
	27"	15'-3"	4'-1"	10'-8"	12'-3 3/4"	334	3.3	3'-11"	77	1.0	
	30"	16'-8 1/4"	4'-4 1/2"	11'-8"	13'-5 3/4"	385	3.8	4'-4"	89	1.3	
	33"	18'-1 3/4"	4'-8"	12'-8"	14'-7 1/2"	425	4.5	4'-8"	101	1.4	
	36"	19'-7"	4'-11 1/2"	13'-8"	15'-9 1/4"	472	5.1	5'-1"	115	1.7	
	42"	22'-5 3/4"	5'-6 1/2"	15'-8"	18'-1"	583	6.5	5'-10"	141	2.1	
	48"	26'-6 1/4"	6'-1 1/2"	18'-8"	21'-6 3/4"	730	8.9	6'-7"	175	2.8	
	54"	29'-5"	6'-8 1/2"	20'-8"	23'-10 1/4"	875	10.7	7'-6"	226	3.6	
60"	32'-3 3/4"	7'-3 1/2"	22'-8"	26'-2"	996	12.7	8'-3"	264	4.3		
66"	35'-2 1/2"	7'-10 1/2"	24'-8"	28'-5 3/4"	1,140	14.9	8'-9"	300	4.9		
72"	38'-1 1/4"	8'-5 1/2"	26'-8"	30'-9 1/2"	1,297	17.3	9'-4"	334	5.6		
6:1	12"	11'-2"	2'-6"	8'-6"	9'-9 3/4"	224	1.9	1'-9"	28	0.4	
	15"	13'-2 1/4"	2'-9 1/2"	10'-0"	11'-6 1/2"	268	2.5	2'-2"	37	0.5	
	18"	15'-2 1/2"	3'-1"	11'-6"	13'-3 1/4"	330	3.2	2'-8"	50	0.7	
	21"	17'-2 3/4"	3'-4 1/2"	13'-0"	15'-0 1/4"	387	3.9	3'-1"	69	0.9	
	24"	19'-4 1/2"	3'-9 1/2"	14'-6"	16'-9"	453	4.8	3'-7"	80	1.2	
	27"	21'-4 3/4"	4'-1"	16'-0"	18'-5 3/4"	512	5.7	3'-11"	96	1.4	
	30"	23'-5 1/4"	4'-4 1/2"	17'-6"	20'-2 1/2"	593	6.7	4'-4"	110	1.7	
	33"	25'-5 1/2"	4'-8"	19'-0"	21'-11 1/4"	675	7.8	4'-8"	127	2.0	
	36"	27'-5 3/4"	4'-11 1/2"	20'-6"	23'-8"	735	9.0	5'-1"	144	2.3	
	42"	31'-6 1/4"	5'-6 1/2"	23'-6"	27'-1 1/2"	922	11.5	5'-10"	179	3.0	
	48"	37'-3 1/2"	6'-1 1/2"	28'-0"	32'-4"	1,191	15.9	6'-7"	231	4.0	
	54"	41'-4 1/4"	6'-8 1/2"	31'-0"	35'-9 1/2"	1,424	19.2	7'-6"	300	5.0	
60"	45'-4 3/4"	7'-3 1/2"	34'-0"	39'-3"	1,631	22.9	8'-3"	353	6.0		

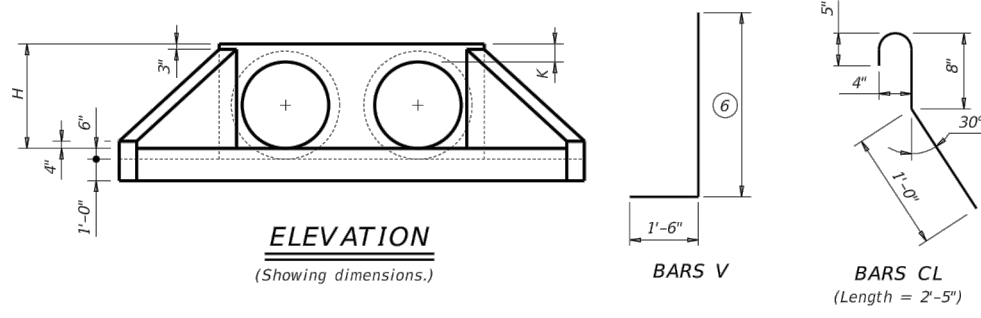
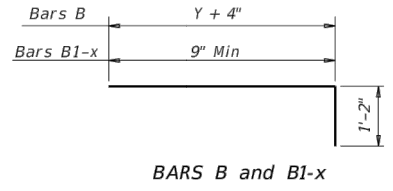
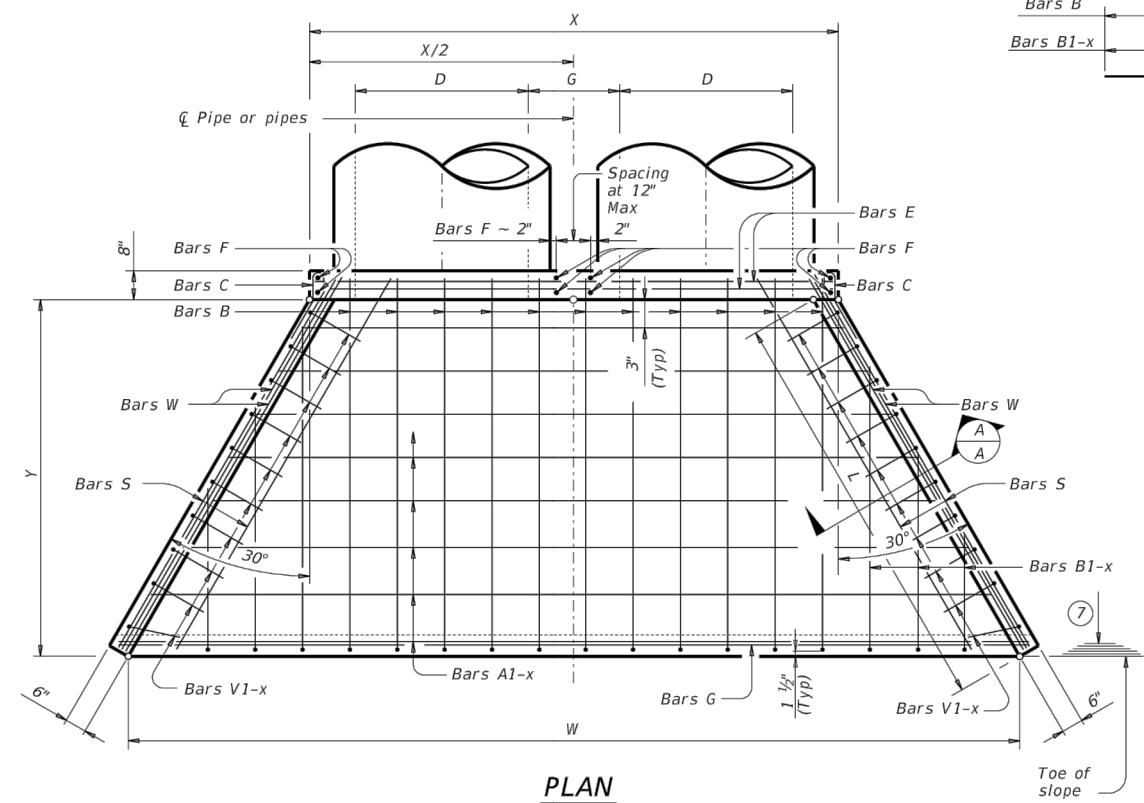


TABLE OF REINFORCING STEEL (5)

Bar	Size	Spa	No.
A	#4	1'-0"	~
B	#3	1'-6"	~
C	#4	1'-0"	~
D	#3	1'-0"	~
E	#5	~	4
F	#5	~	~
G	#3	~	2
S	#4	~	6
V	#4	1'-0"	~
W	#5	~	4

TABLE OF CONSTANT DIMENSIONS

Dia of Pipe (D)	G	K (4)	H
12"	0'-9"	1'-0"	2'-0"
15"	0'-11"	1'-0"	2'-3"
18"	1'-2"	1'-0"	2'-6"
21"	1'-4"	1'-0"	2'-9"
24"	1'-7"	1'-0"	3'-0"
27"	1'-8"	1'-0"	3'-3"
30"	1'-10"	1'-0"	3'-6"
33"	1'-11"	1'-0"	3'-9"
36"	2'-1"	1'-0"	4'-0"
42"	2'-4"	1'-0"	4'-6"
48"	2'-7"	1'-3"	5'-3"
54"	3'-0"	1'-3"	5'-9"
60"	3'-3"	1'-3"	6'-3"
66"	3'-3"	1'-3"	6'-9"
72"	3'-4"	1'-3"	7'-3"

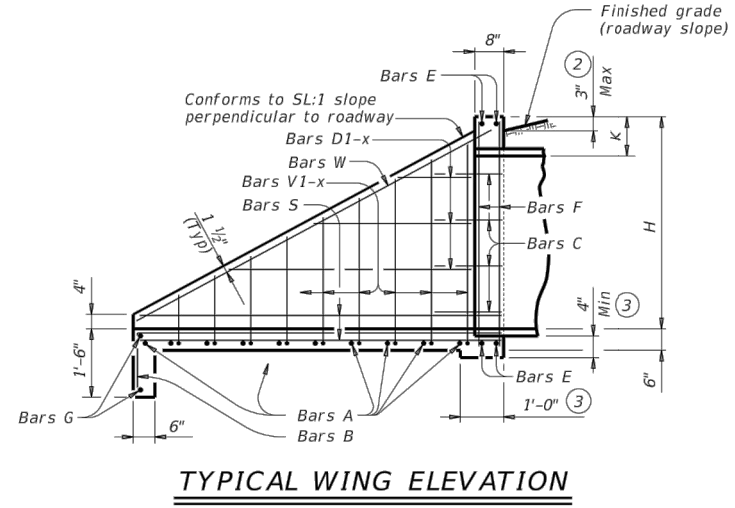


- Quantities shown are for concrete pipe and will increase slightly for metal pipe installations.
- For vehicle safety, construct curbs no more than 3" above finished grade. Reduce curb heights, if necessary, to meet these requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.
- Provide a 1'-0" footing as shown where required to maintain 4" minimum cover for pipes.
- Dimensions shown are usual and maximum.
- Quantities shown are for one structure end only (one headwall).
- Min Length = $6" + 3" \times \left(\frac{12 \times H - 7}{12 \times L} \right)$
Max Length = $12 \times H - 3" \times \left(\frac{12 \times H - 7}{12 \times L} \right) - 1"$
- Lengths of wings based on SL:1 slope along this line.

MATERIAL NOTES:
Provide Grade 60 reinforcing steel.
Provide Class C concrete (f'c = 3,600 psi).

GENERAL NOTES:
Designed according to AASHTO LRFD Bridge Design Specifications.
Do not mount bridge rails of any type directly to these culvert headwalls.
This standard may not be used for wall heights, H, exceeding the values shown.

Cover dimensions are clear dimensions, unless noted otherwise. Reinforcing dimensions are out-to-out of bars.



Texas Department of Transportation Bridge Division Standard

CONCRETE HEADWALLS WITH FLARED WINGS FOR 0° SKEW PIPE CULVERTS

CH-FW-0

FILE: CD-CH-FW0-20.dgn DW: TxDOT CK: TxDOT DW: TxDOT CK: TxDOT

©TxDOT February 2020 CONT SECT JOB HIGHWAY

REVISIONS DIST COUNTY SHEET NO.

CONSULTANT'S SHEET NO. 12C-01

100% DESIGN, PRE-NOA PRELIMINARY

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

ENGINEER: DANIEL J. HEILMAN LICENSE NO.: 86936 DATE: 03/10/2026

FOR

CITY of CORPUS CHRISTI TEXAS
Department of Engineering Services

TBPELS Firm Registration No. F-754
Project No. 10400452

SOUTH BAY PARK SHORELINE IMPROVEMENTS

TXDOT STANDARD DETAILS FLARED WINGS FOR 30 DEG SKEW CH-FW-0

90% PRELIMINARY DESIGN REVIEW 60% PRELIMINARY DESIGN REVIEW

DATE: 02/2025 10/2024

SHEET 26 of 26
RECORD DRAWING NO. CP-XXX
CITY PROJECT #23035

PRINTED HALF-SIZE