

**NOTICE OF MEETING
CITY OF SOUTH PADRE ISLAND
SHORELINE TASK FORCE**

NOTE: One or more members of the City of South Padre Island City Council may attend this meeting; if so, this statement satisfies the requirements of the OPEN MEETINGS ACT.

NOTICE IS HEREBY GIVEN THAT THE SHORELINE TASK FORCE OF THE CITY OF SOUTH PADRE ISLAND, TEXAS, WILL HOLD A REGULAR MEETING ON:

**MONDAY, MARCH 27, 2017
3:00 P.M. AT THE MUNICIPAL BUILDING,
CITY COUNCIL CHAMBERS, 2ND FLOOR
4601 PADRE BOULEVARD, SOUTH PADRE ISLAND, TEXAS**

1. Call to Order.
2. Pledge of Allegiance.
3. **Public Comments and Announcements:** *This is an opportunity for citizens to speak to Task Force relating to agenda or non-agenda items. Speakers are required to address the Task Force at the podium and give their name before addressing their concerns. [Note: State law will not permit the Shoreline Task Force to discuss debate or consider items that are not on the agenda. Citizen Comments may be referred to City Staff or may be placed on the agenda of a future Shoreline Task Force meeting]*
4. Approval of the March 20, 2017 regular meeting minutes.
5. Discussion and possible action on recommending the award of the Moonlight Circle Access construction (Hill)
6. Adjournment.

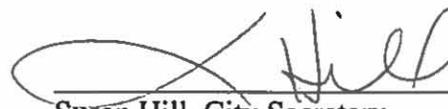
DATED THIS THE 24TH DAY OF MARCH 2017



Susan Hill, City Secretary

I, THE UNDERSIGNED AUTHORITY, DO HEREBY CERTIFY THAT THE ABOVE NOTICE OF MEETING OF THE SHORELINE TASK FORCE OF THE CITY OF SOUTH PADRE ISLAND, TEXAS IS A TRUE AND CORRECT COPY OF SAID NOTICE AND THAT I POSTED A TRUE AND CORRECT COPY OF SAID NOTICE ON THE BULLETIN BOARD AT CITY HALL/MUNICIPAL BUILDING ON **MARCH 24, 2017** AT/OR BEFORE **2:15 P.M.** AND REMAINED SO POSTED CONTINUOUSLY FOR AT LEAST 72 HOURS PRECEDING THE SCHEDULED TIME OF AID MEETING.





Susan Hill, City Secretary

THIS FACILITY IS WHEELCHAIR ACCESSIBLE, AND ACCESSIBLE PARKING SPACES ARE AVAILABLE. REQUESTS FOR ACCOMMODATIONS OR INTERPRETIVE SERVICES MUST BE MADE 48 HOURS PRIOR TO THIS MEETING. PLEASE CONTACT BUILDING OFFICIAL, JAY MITCHIM; ADA DESIGNATED RESPONSIBLE PARTY AT (956) 761-1025.

FILE NAME: F:\2015\City of South Padre Island\Moonlight Circle Access Improvements\Drawings\Civil\XREF's\X-PROP MOONLIGHT CIRCLE.dwg LAYOUT NAME: Layout1 PLOTTED: Tuesday, January 17, 2017 - 10:37am USER: Clementino



A AERIAL EXHIBIT

E1 | E1

30 0 30 60

SCALE: 1"=30' (FULL)
SCALE: 1"=60' (HALF)



GULF OF MEXICO

REVISION NO.	DATE	BY	DESCRIPTION

CITY OF SOUTH PADRE ISLAND MOONLIGHT CIRCLE BEACH ACCESS IMPROVEMENTS BEACH ACCESS #13		DRAWING NO. E1
AERIAL EXHIBIT		SHEET 1 of 1

CONSULTANT'S SHEET PROJECT NO. _____
THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF REVIEW UNDER THE AUTHORITY OF JESUS J. JIMENEZ P.E.# 100765 ON 1/17/17 IT IS NOT TO BE USED FOR ANY OTHER PURPOSE.
INTERNATIONAL CONSULTING ENGINEERS PHONE: 361.926.5805 555 N. CARANAHUA ST. STE. 860 FAX: 361.926.5806 CORPUS CHRISTI, TX 78401 I.C.E. FIRM REGISTRATION #F-10837

Bid Tab

Meeting Date: 03-20-2017				
Meeting Subject: Bid Opening - City of South Padre Moonlight Circle Timber Beach Walkover Project				
Client Name: City of South Padre				
Meeting Location: City of South Padre Island City Hall				
Company	Base Bid	Acknowledge of Addendum 1	Bid Bond	
Willis Development, LLC	\$ 201,642.50	NO	YES	
Bryant Industrial Services	\$ 203,759.00	YES	YES	
COPIES TO: <input checked="" type="checkbox"/> Client <input type="checkbox"/> Participants <input type="checkbox"/> Job File <input checked="" type="checkbox"/> ICE		PREPARED BY: International Consulting Engineers 555 N. Carancahua St. Suite 860 Corpus Christi, Tx 78401 (361)826-5805		
Reviewed By: Jesus J. Jimenez, PE				





TEXAS GENERAL LAND OFFICE
GEORGE P. BUSH, COMMISSIONER

January 31, 2017

Via Electronic Mail

Brandon Hill
Shoreline Management Department
City of South Padre Island
P.O Box 3410
South Padre Island, Texas 78597-3410

Re: Moonlight Circle Beach Access Improvements- 16-071-000-9115

Dear Mr. Hill:

The General Land Office has reviewed materials submitted to our office as part of a CMP funded project: Moonlight Circle Beach Access Improvements. The City of South Padre Island (City) proposes to construct a 6-ft wide by 250-ft long ADA accessible dune walkover in an existing beach access pathway. An existing mobile access mat and wooden deck will also be removed. It is our understanding that the project will be constructed to the exact specifications as proposed. This letters serves as the "GLO Letter of Permission" required under CMP Contract 16-071-000-9115.

Based on the materials forwarded to our office for review, we have the following comments:

- The City must first avoid and then mitigate for any temporary adverse effects to dunes or dune vegetation.¹ The dune walkover should be built in the footprint of the existing mobile access mat to best avoid adverse effects to dunes and dune vegetation. Should significant adverse effects occur during construction, the City must obtain a beachfront construction certificate and dune protection permit to mitigate or compensate for the impacts.
- The seaward terminus of the walkway should be restricted to the most landward point of the public beach² and should ensure that the walkover will not interfere with or otherwise restrict public use of the beach at normal high tides.³
- The City must ensure that the construction and maintenance of the proposed wash station will minimize impacts on natural hydrology and will not cause erosion of critical dune areas.⁴
- The deck of the walkway must be of sufficient elevation to allow for the growth of dune vegetation and the migration of dunes to the greatest extent practicable.⁵

¹ 31 Tex. Admin. Code § 15.4(f)(3).

² 31 Tex. Admin. Code § 15.7(g)(1).

³ 31 Tex. Admin. Code § 15.7(g)(2).

⁴ 31 Tex. Admin. Code § 15.6(g).

⁵ 31 Tex. Admin. Code § 15.7(g)(3).

- The proposed dune walkover should be constructed to allow rain and sand to pass through the decking. The GLO recommends placing the slats that form the deck of the walkover at least ½-inch apart.
- The walkway height should be at least one to one and a half times its width (three feet minimum) to allow sunlight to reach vegetation underneath.
- Concrete may not be used to stabilize the base of the pilings.⁶
- Construction activities must not impact the public's ability to access or use the beach.
- Construction of the proposed dune walkover should conform to the GLO's guidelines provided in the Dune Protection and Improvement Manual for the Texas Gulf Coast, and can be found on the GLO website at: <http://www.glo.texas.gov/coast/coastal-management/forms/files/dune-protection-manual-gpb.pdf>

If you have any questions, please contact me by phone at (512) 463-0413 or by email at natalie.bell@glo.texas.gov.

Sincerely,



Natalie Bell
Beach Access & Dune Protection Program
Coastal Resources Division
Texas General Land Office

⁶ 31 Tex. Admin. Code § 15.6(f)(3).

1. GENERAL NOTES

- CONTRACTOR SHALL NOT NOR HAVE EQUIPMENT OR MATERIALS ON WETLANDS
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAINING HIS EMPLOYEES AND SUBCONTRACTORS IN THE RECOGNITION AND AVOIDANCE OF UNSAFE CONDITIONS, AND IN THE REGULATIONS AND HAZARDS WHICH APPLY TO THE AREA IN WHICH THE WORK WILL TAKE PLACE.
- ALL SAFETY EXPOSURES OR VIOLATIONS SHALL BE RECTIFIED IMMEDIATELY BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROTECTION OF PERSONS AND PROPERTY, AND FOR PROVIDING SAFE WORKING CONDITIONS THROUGHOUT THE WORK PROGRESS. ALL AREAS ADJACENT TO THE CONSTRUCTION AREA OR AFFECTED BY THE CONSTRUCTION MUST BE PROTECTED FROM DAMAGE, CLEANED, AND RESTORED TO THE ORIGINAL CONDITION AT NO ADDITIONAL EXPENSE TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL CLEARANCES AND PERMITS AS NECESSARY, PRIOR TO THE COMMENCEMENT OF THE WORK.
- WORK AREAS SHALL BE KEPT, AT ALL TIMES, FREE OF DEBRIS AND NON - HAZARDOUS MATERIAL TO THE SATISFACTION OF THE CITY OF SOUTH PADRE ISLAND. THE CONTRACTOR SHALL COORDINATE STORAGE OF MATERIALS, PARKING OF VEHICLES, AND RESTRICTIONS OF WORK WITH THE CITY OF SOUTH PADRE ISLAND. AFTER PROJECT COMPLETION, THE SITE SHALL BE CLEANED UP TO ITS CONDITION PRIOR TO THE START OF THE PROJECT TO THE SATISFACTION OF THE CITY OF SOUTH PADRE ISLAND.
- THE SEQUENCE OF CONSTRUCTION SHALL BE SCHEDULED AND COORDINATED WITH THE CITY OF SOUTH PADRE ISLAND
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS, AND SHALL PERFORM FIELD MEASUREMENTS PRIOR TO FABRICATION AND / OR PURCHASE OF ANY MATERIAL AND SHALL CONTACT THE ENGINEER SHOULD EXISTING CONDITIONS BE DIFFERENT FROM THE DESIGN DRAWINGS FOR THIS PROJECT. CONFLICTS ARISING DUE TO LACK OF COORDINATION SHALL BE THE RESPONSIBILITY AND AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL NOT FABRICATE OR INSTALL MEMBERS AS SHOWN ON THE DRAWINGS IF THERE ARE DISCREPANCIES OR CONFLICTS WITH THE EXISTING CONDITIONS AND THE INFORMATION SHOWN ON THE DRAWINGS, UNTIL SUCH DISCREPANCIES HAVE BEEN RESOLVED. PRIOR TO FABRICATION OR INSTALLATION, THE CONTRACTOR SHALL IMMEDIATELY CALL SUCH DISCREPANCIES OR CONFLICTS TO THE ATTENTION OF THE ENGINEER.
- ANY REQUIRED CHANGES TO THE DRAWINGS RESULTING FROM THE ACCEPTANCE OF ALTERNATES AND / OR SUBSTITUTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBMITTED TO THE OWNER AND THE ENGINEER FOR APPROVAL.
- ALL CONTRACT WORK IN THESE DRAWINGS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING NATIONAL CODES AND STANDARDS:

- A. INTERNATIONAL BUILDING CODES, 2012 (IBC2012)
- B. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) 7-05
- C. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
- D. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
- E. INTERNATIONAL FIRE CODE (IFC)

- THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS REMOVED WHICH ARE NOT TO BE REINSTALLED OR SALVAGED ON THE PROJECT. DISPOSAL OF MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- EXCAVATIONS SHALL NOT BE MADE DURING INCLEMENT WEATHER. WATER ACCUMULATION IN EXCAVATIONS EXCEEDING 1 INCH SHALL BE PUMPED OUT BEFORE ANY CONCRETE IS PLACED.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF TRENCH SAFETY PROGRAM. THE CONTRACTOR SHALL APPOINT A TRENCH SAFETY FOREMAN WHO WILL BE ON SITE AT ALL TIMES WHILE TRENCHING OR EXCAVATION IS BEING PERFORMED. ALL EXCAVATIONS AND BACKFILL OPERATIONS SHALL BE IN ACCORDANCE WITH THE LATEST OSHA EXCAVATIONS SAFETY STANDARDS, OSHA 2226 AND 29 CFR PART 1926 SUBPART P. THE CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN PREPARED BY AN ENGINEER REGISTERED IN THE STATE OF TEXAS. THE EXCAVATION PLAN SHALL INDICATE THE PROCEDURES TO BE USED BY THE CONTRACTOR TO COMPLY WITH THE OSHA REQUIREMENTS. THE EXCAVATION PLAN SHALL IDENTIFY THE "COMPETENT PERSON" AS REQUIRED BY PARAGRAPH 1926.651 (K) (1) THAT WILL WORK WITH EACH CREW.
- PERMITTING ASSOCIATED WITH THE PROJECT INCLUDES BUT ARE NOT LIMITED TO THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) CONSTRUCTION SITE STORM WATER PERMIT NOTICE OF INTENT (NOI) FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES UNDER THE TRENCH CONSTRUCTION GENERAL PERMIT (TXR 150000). THIS PERMIT IS REQUIRED FOR CONSTRUCTION ACTIVITIES INCLUDING CLEARING, GRADING, AND EXCAVATION ACTIVITIES THAT DISTURB GREATER THAN THE TOTAL LAND AREA WITHIN THE PROJECT LIMITS.
- CONTRACTOR SHALL MARK ALL AS-BUILT CONDITIONS FOR UTILITIES AND STORM SEWER ON THE PLAN AND SUBMIT TO THE ENGINEER AT END OF PROJECT.
- THE CONTRACTOR SHALL VISIT THE PROJECT SITE IN ORDER TO BECOME FAMILIAR WITH THE SITE CONDITIONS PRIOR TO COMMENCING ANY WORK. THE CONTRACTOR IS TO RESEARCH THE EXISTING CONDITIONS AND PROPOSED WORK TO BECOME FULLY AWARE OF THE INTENT OF THE WORK. THE CONTRACTOR WILL BE REQUIRED TO ACQUIRE ALL NECESSARY PERMITS AND PAY ASSOCIATED FEES.
- THE DRAWING SHOWS AS MUCH INFORMATION AS CAN BE REASONABLY OBTAINED BY THE SURVEY CREWS AND FROM EXISTING RECORDS REGARDING THE LOCATION AND NATURE OF PIPELINES, STORM SEWER, WATERLINES, SANITARY SEWER, TELEPHONE CONDUITS, ETC. HOWEVER THE ACCURACY AND COMPLETENESS OF SUCH INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LOCATE SUCH UNDERGROUND FEATURES SUFFICIENTLY IN ADVANCE OF OPERATIONS TO PRECLUDE DAMAGE TO SAME.
- UNDERGROUND UTILITY LINES SHOWN ON THE PLANS CONSTITUTE AN ATTEMPT BY THE ENGINEER TO LOCATE THESE LINES FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL FIELD LOCATE ALL UNDERGROUND UTILITY LINES AND MAKE PROVISIONS FOR THEIR PROTECTION. IN THE EVENT OF DAMAGE TO UNDERGROUND UTILITIES, WHETHER SHOWN OR NOT ON THE DRAWINGS, THE CONTRACTOR SHALL MAKE THE NECESSARY REPAIRS TO PLACE THE FACILITIES BACK IN SERVICE. ALL SUCH REPAIRS SHALL CONFORM TO THE REQUIREMENTS OF THE COMPANY OR AGENCY OPERATING THE FACILITY. DAMAGE BY THE CONTRACTOR TO EXISTING UTILITIES SHALL BE REPORTED IMMEDIATELY TO THE OWNER OF THE UTILITY AND THE ENGINEER. THE COST OF DAMAGE AND / OR REPAIR TO SAID UTILITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NO PAYMENT WILL BE MADE FOR DELAYS DUE TO UTILITY CONFLICTS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE CHANGES IN DRAINAGE, WATERLINE, AND SANITARY SEWER GRADES TO PERMIT THE LINES TO PASS ALL UNDERGROUND LINES, AS AUTHORIZED BY THE ENGINEER, AND IN ACCORDANCE WITH TCEQ'S "TEXAS ADMINISTRATIVE CODE" CHAPTER 217, 217.53 (d) SEPARATION DISTANCES BETWEEN PUBLIC WATER SUPPLY PIPES AND WASTEWATER COLLECTION SYSTEM PIPES OR MANHOLES.
- DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR MAY ENCOUNTER EXISTING PIPES WHICH ARE NO LONGER IN SERVICE. THE CONTRACTOR MUST EXPLORE AND RESEARCH THE SITUATION AND PROVIDE EVIDENCE TO THE OWNERS REPRESENTATIVE THAT THE EXISTING PIPE IS ABANDONED. ONCE IT IS AGREED THAT THE LINE IS ABANDONED, THEN THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SAID PIPE. THIS GENERALLY APPLIES TO ALL WHEN REMOVING DRAINAGE CULVERTS. ACTIVE DRAINAGE CULVERTS MUST BE REINSTALLED IF THEY ARE REMOVED FOR THE PURPOSE OF CONSTRUCTION. ANY ABANDONED LINES TO REMAIN IN PLACE SHALL BE FULLY GROUTED.
- TRENCH EXCAVATION SHALL NOT PRECEDE BACKFILL BY MORE THAN 200 FEET. NO TRENCH SHALL BE LEFT OPEN AFTER NORMAL WORKING HOURS.
- PRIOR TO THE COMMENCEMENT OF ANY WORK AT PROJECT SITE, CONTRACTOR SHALL COORDINATE WITH THE CITY OF SOUTH PADRE ISLAND SO THAT PROPOSED CONSTRUCTION METHODS WILL NOT INTERFERE OR IMPEDE THE CITY'S DAILY ACTIVITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION OF EXISTING IMPROVEMENTS ON SITE, INCLUDING ABOVE GROUND AND UNDERGROUND. CONTRACTOR SHALL REMOVE BELOW - GRADE STRUCTURES TO THREE FEET BELOW NATURAL GRADE OR TO SUCH DEPTH AS MAY BE REQUIRED TO MAINTAIN SUBSURFACE STABILITY OF THE SOIL.
- CONTRACTOR SHALL BACKFILL ALL VOIDS LEFT BY DEMOLITION AND COMPACT IN A MANNER SUITABLE TO FINAL IMPROVEMENTS.
- ALL DEMOLISHED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- ANY DAMAGE TO EXISTING DRAINAGE, PRIVATE UTILITY, OR OTHER STRUCTURES SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITION AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE SAFETY OF THE PEDESTRIANS AND ALL VEHICULAR TRAFFIC FROM CONSTRUCTION RELATED ACTIVITIES DURING THE COURSE OF THIS PROJECT.
- THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNMENTAL ONE-CALL REQUIREMENTS AND OTHER REGULATIONS WITH REGARD TO EXISTING UNDERGROUND UTILITIES, PIPELINES, AND OTHER FACILITIES A MINIMUM OF 48 HOURS IN ADVANCE OF CONSTRUCTION.
- ALL OPEN EXCAVATIONS SHALL BE ENCLOSED WITH ORANGE SAFETY FENCE AT ALL TIMES.
- EXCESS EXCAVATED MATERIAL, MUCK, VEGETATION, BROKEN CONCRETE, RC PIPE, AND OTHER UNWANTED MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR. THE COST OF ALL HAULING IS UNDEVELOPED; THEREFORE, NO DIRECT PAYMENT WILL BE MADE TO THE CONTRACTOR.
- THE QUANTITIES OF THE WORK AND MATERIALS SHOWN ON THE PLANS APPROXIMATELY REPRESENT THE WORK TO BE PERFORMED AND MATERIALS TO BE FURNISHED, AND ARE FOR THE PURPOSE OF AIDING THE CONTRACTOR WITH THE PROJECT. IT IS UNDERSTOOD THAT QUANTITIES MAY INCREASE OR DECREASE WITHOUT IN ANY WAY INVALIDATING THE LUMP SUM BID PRICE.
- SEEDING FOR EROSION CONTROL SHALL BE APPLIED ON ALL NON - PAVED AREAS DISTURBED BY THE CONTRACTORS OPERATIONS, INCLUDING EMBANKMENTS, GRADED AREAS, LAYDOWN AREAS, ETC., THE QUANTITY OF PURE LIVE SEED AND TYPE REQUIRED ARE INDICATED BELOW:

COMMON NAME	SCIENTIFIC NAME	LB/ACRE OF PURE LIVE SEED FOR MIXTURES		
		A	B	C
GREEN SPRANGLETOP	LEPTOCHLOA DUBIA	1.4	1.4	-
SIDEOTS GRAMA (PREMIER)	BOUTELOUA CURTIPENDULA	0.6	-	0.6
BERMUDA GRASS (HULLED)	CYNODON DACTYLON	7.0	7.4	-
BERMUDA GRASS (UNHULLED)	CYNODON DACTYLON	-	-	30.0
K-R BLUESTEM	ANDROPOGON ISCHAEUM	1.2	1.2	1.5
BUFFEL GRASS	PENNISETUM CILIARE	-	4.2	-
ANNUAL RYE GRASS	LOLUM MULTIFLORUM	5.0	5.0	20.0

- MIXTURE - A: RECOMMENDED FOR CLAY OR TIGHT SOILS PLANTED BETWEEN DECEMBER 1 THROUGH MAY 1.
- MIXTURE - B: RECOMMENDED FOR SANDY SOILS PLANTED BETWEEN DECEMBER 1 THROUGH MAY 1.
- MIXTURE - C: RECOMMENDED FOR ALL SOILS PLANTED BETWEEN MAY 2 THROUGH NOVEMBER 30.

THE FERTILIZING, SEEDING, AND WATERING OPERATIONS SHALL BE ACCOMPLISHED WITH EQUIPMENT SUITABLE FOR THE REQUIRED FUNCTION. CONTRACTOR SHALL FERTILIZE AND WATER TO ASSURE 95% OF THE SEEDED AREA HAS ESTABLISHED GROWTH WITHIN 45 CALENDAR DAYS. ESTABLISHED GROWTH IS DEFINED AS AT LEAST ONE PLANT PER SQUARE FOOT WITH NO BARE SPOTS LARGER THAN TEN (10) SQUARE FEET.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING SUFFICIENT TRAFFIC CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PERIOD TO ASSURE A SAFE CONDITION AND TO PROVIDE A MINIMUM OF INCONVENIENCE TO MOTORISTS. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (LATEST EDITION).

2. SITE EXCAVATION AND GRADING (DUNE PROTECTION)

- THE CONTRACTOR SHALL STRIVE TO AVOID ANY DAMAGE AND DESTRUCTION TO DUNES AND VEGETATION TO THE MAXIMUM EXTENT PRACTICAL.
- NO CLEARING/STRIPPING SHALL BE DONE.
- IF SITE IS TO BE CLEARED, THE CONTRACTOR SHALL RECEIVE PRIOR APPROVAL FROM THE CITY OF SOUTH PADRE ISLAND AND PROVIDE A MITIGATION ACTION PLAN AS OUTLINED IN THE CITY OF SOUTH PADRE ISLAND PLAN AND THE TAC.
- ANY TEMPORARY IMPACTS TO VEGETATION WILL BE MITIGATED ON SITE.
- NO FILL SHALL BE USED OR BROUGHT ONTO THE SITE. ONLY EXCAVATED MATERIAL MAY BE USED AS FILL FOR THE SIDEWALK TO REACH ELEVATION.
- DAMAGE AND DESTRUCTION TO BACKDUNES THAT ACTIVELY EXCHANGE SAND WITH AND EXTEND VEGETATION TO FOREDUNES AND THE FOREDUNE RIDGE SHALL BE AVOIDED TO THE MAXIMUM EXTENT PRACTICABLE.
- UNAVOIDABLE DAMAGE TO DUNES AND DUNE VEGETATION SHALL BE COMPENSATED FOR BY THE CREATION OF NEW DUNES, THE ENHANCEMENT OF EXISTING DUNES, AND/OR THE REPAIR OF THE DAMAGED DUNES AS WELL AS THE PLANTING OF INDIGENOUS VEGETATION.
- THE NEW, ENHANCED, AND/OR REPAIRED DUNES SHALL STRIVE TO BE SUPERIOR OR EQUAL TO THE DAMAGED DUNES IN THEIR ABILITY TO PROTECT ADJACENT BEACH FROM EROSION.
- COMPENSATION EFFORTS SHALL BE CONTINUOUS AND CONCURRENT WITH THE CONSTRUCTION UNTIL THE NEW, ENHANCED AND/OR REPAIRED DUNES AND DUNE VEGETATION IS EQUAL OR SUPERIOR TO THE DAMAGED DUNE AND DUNE VEGETATION.
- ON COMPLETION OF COMPACTION, THE SURFACE SHALL BE SMOOTH AND CONFORM TO LINES, GRADES, AND SECTIONS SHOWN ON THE PLANS.
- COMPLETE ALL GRADING NECESSARY TO BRING THE ENTIRE AREA SHOWN ON THE DRAWINGS TO THE SUBGRADE LEVELS INDICATED ON THE PLANS AND DETAILS. GRADES NOT OTHERWISE INDICATED SHALL BE UNIFORM SLOPES OR SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE GIVEN, OR BETWEEN SUCH POINTS AND EXISTING FINISH GRADES. ROUND OFF ABRUPT CHANGES IN SLOPES.

3. ARCHEOLOGICAL DISCOVERIES AND CULTURAL RESOURCES

- NO ACTIVITY WHICH MAY AFFECT PROPERTIES LISTED OR PROPERTIES ELIGIBLE FOR LISTING IN THE NATIONAL REGISTER OF HISTORIC PLACES OR ELIGIBLE FOR DESIGNATION AS A STATE ARCHEOLOGICAL LANDMARK IS AUTHORIZED UNTIL THE OWNER HAS COMPLIED WITH THE PROVISIONS OF THE NATIONAL HISTORIC PRESERVATION ACT AND THE ANTIQUITIES CODE OF TEXAS. THE OWNER HAS PREVIOUSLY COORDINATED WITH THE APPROPRIATE AGENCIES AND IMPACTS TO KNOWN CULTURAL OR ARCHEOLOGICAL DEPOSITS HAVE BEEN AVOIDED OR MITIGATED. HOWEVER, THE CONTRACTOR MAY ENCOUNTER UNANTICIPATED CULTURAL OR ARCHEOLOGICAL DEPOSITS DURING CONSTRUCTION.
- IF ARCHEOLOGICAL SITES OR HISTORIC STRUCTURES WHICH MAY QUALIFY FOR DESIGNATION AS A STATE ARCHEOLOGICAL LANDMARK ACCORDING TO THE CRITERIA IN 13 TAC 41.6-41.10, OR THAT MAY BE ELIGIBLE FOR LISTING ON THE NATIONAL REGISTER OF HISTORIC PLACES IN ACCORDANCE WITH 36 CFR PART 800, ARE DISCOVERED AFTER CONSTRUCTION OPERATIONS ARE BEGUN, THE CONTRACTOR SHALL IMMEDIATELY CEASE OPERATIONS IN THAT PARTICULAR AREA AND NOTIFY THE OWNER AND THE TEXAS HISTORICAL COMMISSION, 1511 N. COLORADO ST., P.O. BOX 12276, CAPITOL STATION, AUSTIN, TEXAS 78711-2276. THE CONTRACTOR SHALL TAKE REASONABLE STEPS TO PROTECT AND PRESERVE THE DISCOVERIES UNTIL THEY HAVE BEEN INSPECTED BY THE OWNER'S REPRESENTATIVE. THE OWNER WILL PROMPTLY COORDINATE WITH THE STATE HISTORIC PRESERVATION OFFICER AND ANY OTHER APPROPRIATE AGENCIES TO OBTAIN ANY NECESSARY APPROVALS OR PERMITS TO ENABLE THE WORK TO CONTINUE. THE CONTRACTOR SHALL NOT RESUME WORK IN THE AREA OF THE DISCOVERY UNTIL AUTHORIZED TO DO SO BY THE OWNER.

4. ENDANGERED SPECIES

- NO ACTIVITY IS AUTHORIZED THAT IS LIKELY TO JEOPARDIZE THE CONTINUED EXISTENCE OF A THREATENED OR ENDANGERED SPECIES AS LISTED OR PROPOSED FOR LISTING UNDER THE FEDERAL ENDANGERED SPECIES ACT (ESA), AND/OR THE STATE OF TEXAS PARKS AND WILDLIFE CODE ON ENDANGERED SPECIES, OR TO DESTROY OR ADVERSELY MODIFY THE HABITAT OF SUCH SPECIES.
- IF A THREATENED OR ENDANGERED SPECIES IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY CEASE WORK IN THE AREA OF THE ENCOUNTER AND NOTIFY THE OWNER, WHO WILL IMMEDIATELY IMPLEMENT ACTIONS IN ACCORDANCE WITH THE ESA AND APPLICABLE STATE STATUTES. THESE ACTIONS SHALL INCLUDE REPORTING THE ENCOUNTER TO THE U.S. FISH AND WILDLIFE SERVICE, THE TEXAS PARKS AND WILDLIFE DEPARTMENT, AND THE CITY OF SOUTH PADRE ISLAND, OBTAINING ANY NECESSARY APPROVALS OR PERMITS TO ENABLE THE WORK TO CONTINUE, OR IMPLEMENT OTHER MITIGATION ACTIONS. THE CONTRACTOR SHALL NOT RESUME CONSTRUCTION IN THE AREA OF THE ENCOUNTER UNTIL AUTHORIZED TO DO SO BY THE OWNER.

5. AVOIDANCE OF SHOREBIRDS AND NESTING SEA TURTLES

- CITY OF SOUTH PADRE ISLAND WILL WORK TO TRY AND DO ANY CONSTRUCTION ON THE BEACH OUTSIDE THE TURTLE NESTING SEASON. IF A PROJECT MUST MOVE FORWARD DURING TURTLE NESTING SEASON A TRAINED TURTLE PATROLLER WILL DO A CHECK FOR TURTLE TRACKS PRIOR TO CONSTRUCTION STARTING EACH MORNING. IF ANY CREWS COME INTO CONTACT WITH A BIRD DURING CONSTRUCTION THEY WILL BE INSTRUCTED TO STOP ALL ACTIVITIES AND NOTIFY THE PROJECT MANAGER WHO WILL THEN CONTACT THE APPROPRIATE AGENCY BEFORE CONTINUING ANY WORK.

6. COMPLIANCE WITH GENERAL LAND OFFICE

- THE WALKWAY WILL BE CONSTRUCTED WITH THE BOUNDARY OF THE LINE OF VEGETATION DETERMINED BY THE TEXAS GENERAL LAND OFFICE AND THE APPROVED TERMINUS LOCATION DETERMINED BY THE TEXAS GENERAL LAND OFFICE. THE WALKOVER WILL BE CONSTRUCTED TO THE MOST LANDWARD POINT OF THE PUBLIC BEACH AND WILL NOT INTERFERE WITH OR OTHERWISE RESTRICT PUBLIC USE OF THE BEACH AT NORMAL HIGH TIDES.
- CITY OF SOUTH PADRE ISLAND WILL SHORTEN ANY DUNE WALKOVERS ENROACHING ON THE PUBLIC BEACH TO THE APPROPRIATE LENGTH FOR REMOVAL OF THE ENCROACHMENT. CITY OF SOUTH PADRE ISLAND WILL CONTAIN THIS AS A CONDITION IN ANY PERMIT AND CERTIFICATE ISSUED AUTHORIZING CONSTRUCTION OF WALKOVERS. CITY OF SOUTH PADRE ISLAND WILL ASSESS THE STATUS OF THE BEACH BOUNDARY WITHIN 30 DAYS AFTER A MAJOR STORM OR OTHER EVENT CAUSING SIGNIFICANT LANDWARD MIGRATION OF THE PUBLIC BEACH. AFTER ASSESSMENT, CITY OF SOUTH PADRE ISLAND WILL INFORM THE GENERAL LAND OFFICE OF ANY ENCROACHMENTS ON THE PUBLIC BEACH WITHIN TEN DAYS OF COMPLETING THE ASSESSMENT.
- CITY OF SOUTH PADRE ISLAND WILL ENSURE THAT THE CONTRACTOR MINIMIZES ADVERSE IMPACTS TO DUNES AND DUNE VEGETATION BY LIMITING THE DEGREE OR MAGNITUDE OF THE ACTION AND ITS IMPLEMENTATION. CITY OF SOUTH PADRE ISLAND WILL ENSURE THAT THE CONTRACTOR DOES NOT IMPEDE ON THE COPPICE MOUNDS.
- THE DECK OF THE WALKWAY MUST BE OF SUFFICIENT ELEVATION TO ALLOW FOR THE GROWTH OF DUNE VEGETATION AND THE MIGRATION OF DUNES TO THE GREATEST EXTENT PRACTICABLE. REFER TO THE DRAWINGS.
- THE BOARDWALK IS DESIGNED TO ACCOMMODATE ADA REQUIREMENTS.
- THE CITY PERMIT SHALL CONTAIN A CONDITION REQUIRING THE PERMITTEE TO MINIMIZE ADVERSE EFFECTS ON DUNES OR DUNE VEGETATION TO THE GREATEST EXTENT PRACTICABLE.
- THE CITY WILL ENSURE THAT THE CONTRACTOR WILL MINIMIZE IMPACTS ON NATURAL HYDROLOGY AND NOT CAUSE EROSION OF ADJACENT PROPERTIES, CRITICAL DUNE AREAS, OR THE PUBLIC BEACH.
- CITY OF SOUTH PADRE ISLAND SHALL POST SIGNS IN AREAS WHERE PEDESTRIAN TRAFFIC IS HIGH EXPLAINING THE FUNCTIONS OF DUNES AND THE IMPORTANCE OF VEGETATION IN PRESERVING DUNES.
- CONSTRUCTION ACTIVITIES MUST NOT IMPACT THE PUBLIC'S ABILITY TO ACCESS OR USE THE BEACH.
- CONSTRUCTION OF THE PROPOSED DUNE WALKOVER SHOULD CONFORM TO THE GLO'S GUIDELINES PROVIDED IN THE DUNE PROTECTION AND IMPROVEMENT MANUAL FOR THE TEXAS GULF COAST, AND CAN BE FOUND ON THE GLO WEBSITE AT [HTTP://WWW.GLO.TEXAS.GOV/COAST/COASTAL-MANAGEMENT/FORMS/FILES/DUNE-PROTECTION-MANUAL-GPB.PDF](http://www.glo.texas.gov/coast/coastal-management/forms/files/dune-protection-manual-gpb.pdf).

TESTING SCHEDULE

DESCRIPTION	RATE	QUANTITY
SOILS:		
STANDARD PROCTOR - SUBGRADE	PER STREET	1
DENSITIES - SUBGRADE (PARKING LOT)	PER 3,000 SF	2
DENSITIES - SUBGRADE (PAVEMENT)	PER 3,000 SF	1
CRUSHED LIMESTONE BASE (WHEN USED):		
SEIVE ANALYSIS	PER 3000 CY	1
ATTERBURG LIMITS	PER 3000 CY	1
MODIFIED PROCTOR	PER 3000 CY	1
L.A. ABRASION	PER 3000 CY	1
CBR (STANDARD)	PER MATERIAL SOURCE	1
DENSITIES OF COMPACTED BASE (PARKING LOT)	PER 3,000 SF	2
DENSITIES OF COMPACTED BASE (PAVEMENT)	PER 3,000 SF	1
WET BALL MILL TEST	PER MATERIAL SOURCE	1
TRIAXIAL TEST	PER MATERIAL SOURCE	1
PAVEMENT HOT-MIX ASPHALT CONCRETE (HMAC) (WHEN USED):		
EXTRACTION, SIEVE ANALYSIS	PER 500 TONS OR DAY	1
LAB DENSITY & STABILITY	PER 500 TONS OR DAY	1
THEORETICAL DENSITY (RICE METHOD)	PER 500 TONS OR DAY	1
TEMPERATURE - DURING LAY-DOWN	CONTINUOUS AS NEEDED	-
THICKNESS - IN PLACE (CORE)	PER 1000 LF	1
% AIR VOIDS - IN PLACE (CORE)	PER 1000 LF	1
% THEORETICAL DENSITY - IN PLACE (CORE)	PER 1000 LF	1
CONCRETE:		
(UNCONFINED COMPRESSION, 7, 14, & 28 DAY)	PER 2000 SF	1
SIDEWALK/CURB/RAMP		

NOTE: CONTRACTOR TO COORDINATE WITH ENGINEER FOR MATERIAL TESTING AND LOCATION.

CONSULTANT'S SHEET
PROJECT NO. 15450-03

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INTERNATIONAL CONSULTING ENGINEERS
PHONE: 361.926.5805 555 N. CARANCAHUA ST. STE. 860
CORPUS CHRISTI, TX 78401
I.C.E. FIRM REGISTRATION #F-10857



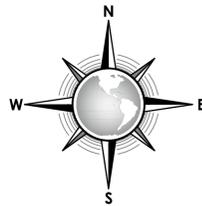
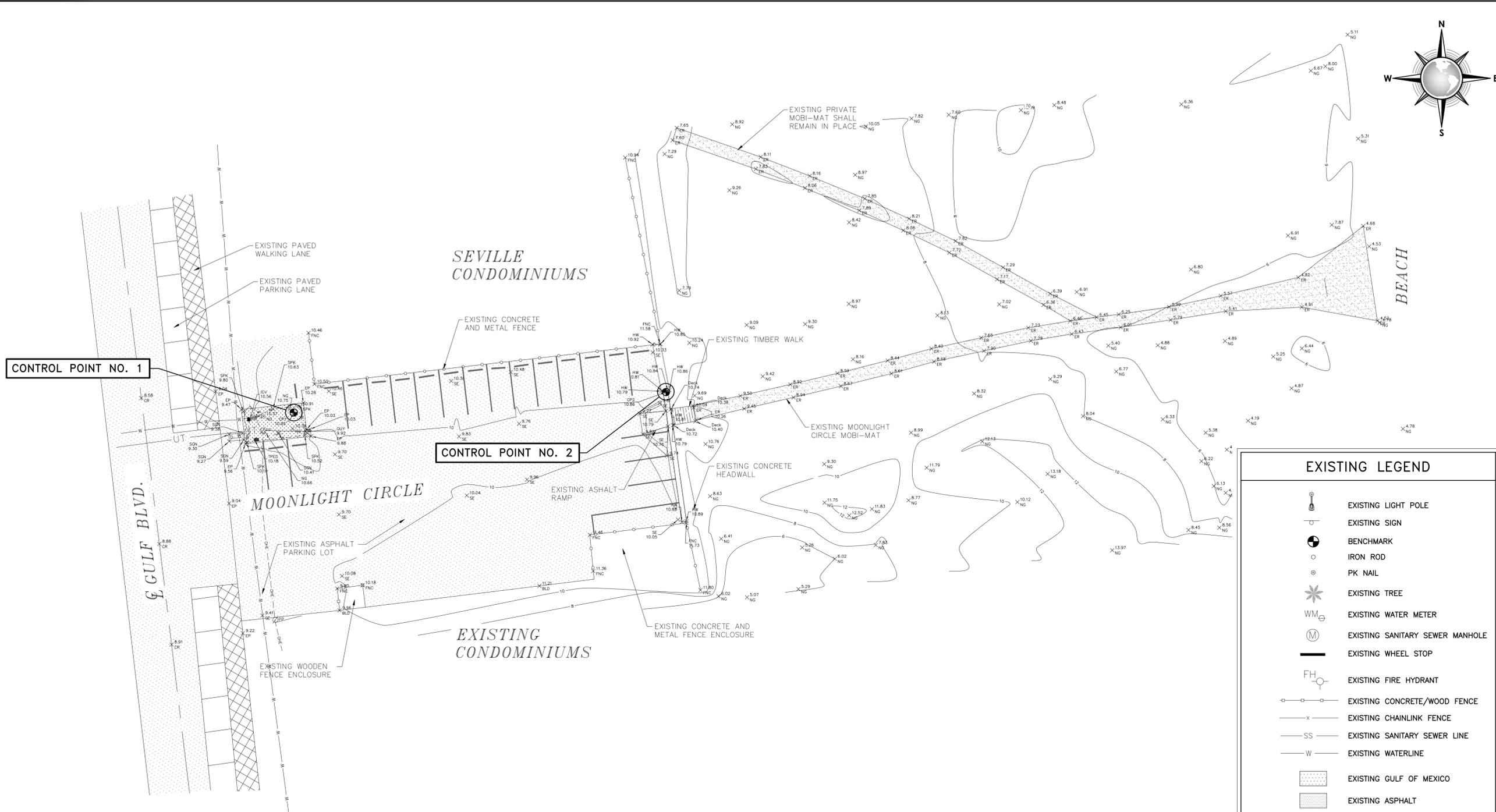
CITY OF SOUTH PADRE ISLAND
MOONLIGHT CIRCLE BEACH ACCESS IMPROVEMENTS
BEACH ACCESS #13
GENERAL NOTES

DRAWING NO.

01

SHEET 2 of 16

FILE NAME: F:\2015\City of South Padre Island\Moonlight Circle Access Improvements\Drawings\Civil\04-C3-EXISTING TOPOGRAPHY AND CONTROL.dwg LAYOUT NAME: Layout1 PLOTTED: Thursday, January 05, 2017 4:38pm USER: CMontalvo



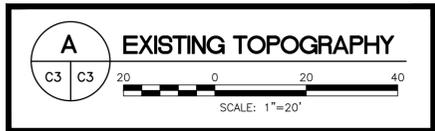
CONTROL POINT NO. 1

CONTROL POINT NO. 2

SURVEY DATUM
 HORIZONTAL:
 NAD 83 TEXAS SOUTH ZONE
 VERTICAL:
 NAVD 88

CONTROL POINT DATA				
CONTROL POINT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	SET 5/8" IRON ROD WITH CAP	16568779.26	1422036.26	10.95
2	SET 5/8" IRON ROD WITH CAP	16568786.91	1422176.17	10.86

NOTE: ELEVATIONS ARE ASSUMED BASED ON THE CONTROL POINTS PROVIDED.



EXISTING LEGEND	
	EXISTING LIGHT POLE
	EXISTING SIGN
	BENCHMARK
	IRON ROD
	PK NAIL
	EXISTING TREE
	EXISTING WATER METER
	EXISTING SANITARY SEWER MANHOLE
	EXISTING WHEEL STOP
	EXISTING FIRE HYDRANT
	EXISTING CONCRETE/WOOD FENCE
	EXISTING CHAINLINK FENCE
	EXISTING SANITARY SEWER LINE
	EXISTING WATERLINE
	EXISTING GULF OF MEXICO
	EXISTING ASPHALT
	EXISTING CONCRETE
	EXISTING PAVERS
	EXISTING TIMBER WALKOVER
16.11EP	EXISTING EDGE OF PAVEMENT
15.81CONC	EXISTING CONCRETE
17.79NG	EXISTING NATURAL GROUND
10.83BRIDGE	EXISTING TIMBER WALKOVER
15.81BLD	EXISTING BUILDING
17.79FNC	EXISTING FENCE
17.79ER	EXISTING EDGE OF ROAD
17.79SE	EXISTING SPOT ELEVATION
17.79PAVER	EXISTING PAVERS

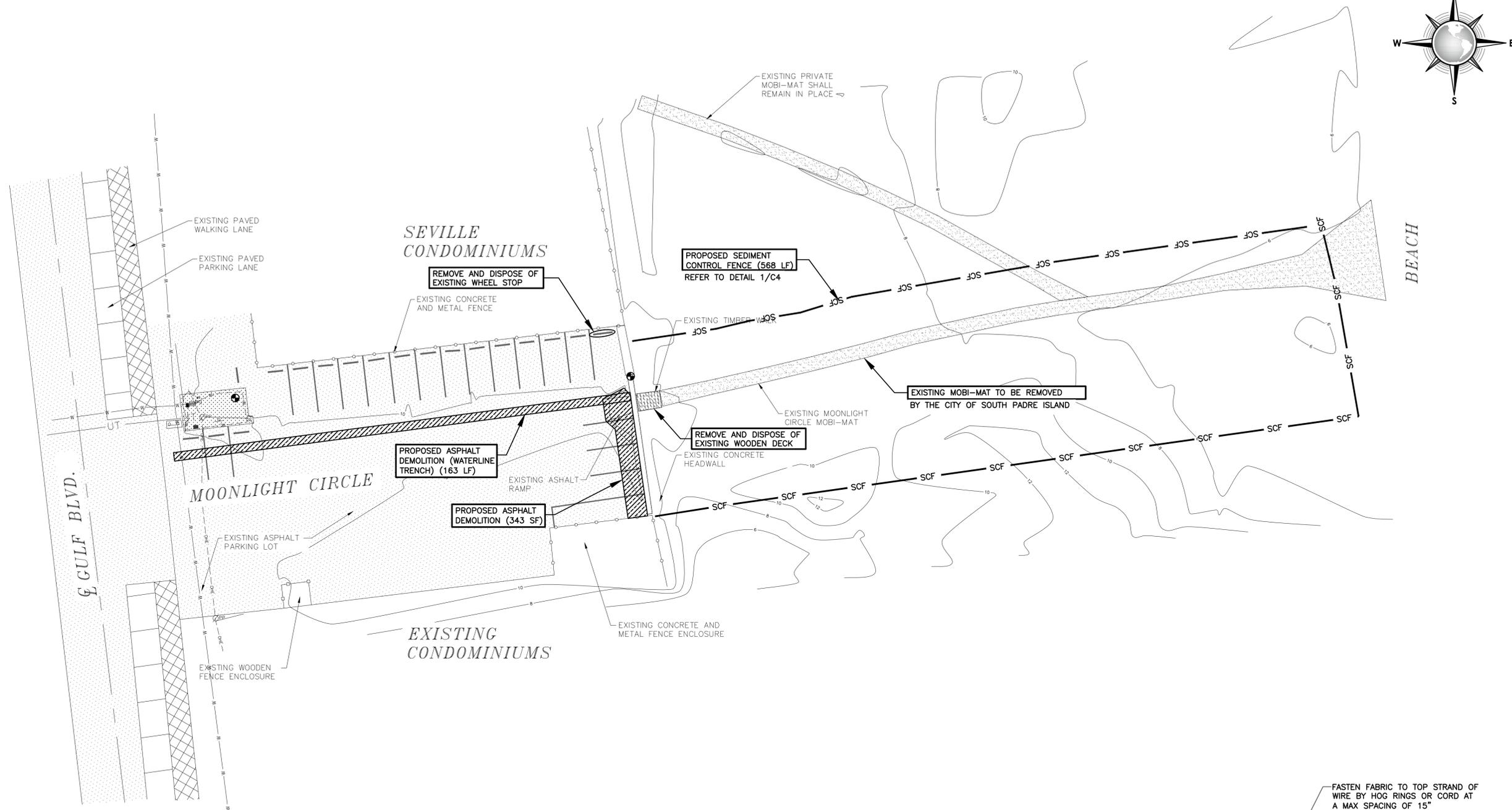
CONSULTANT'S SHEET
 PROJECT NO. 15450-03

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CITY OF SOUTH PADRE ISLAND
 MOONLIGHT CIRCLE BEACH ACCESS IMPROVEMENTS
 BEACH ACCESS #13
 EXISTING TOPOGRAPHY & CONTROL DATA

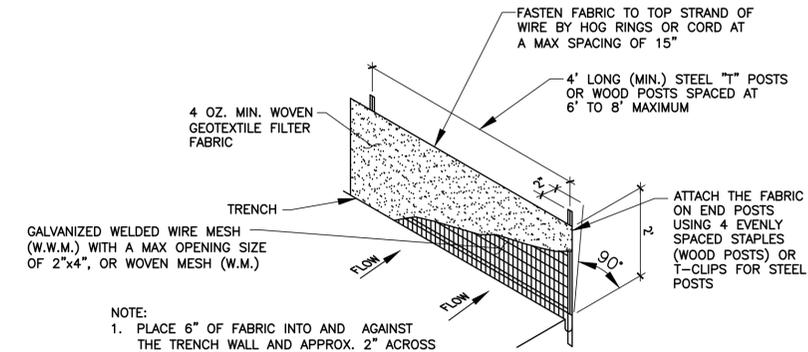
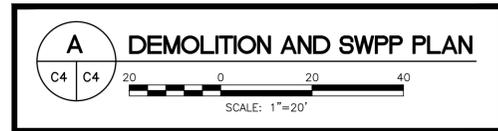
REVISION NO. 11-21-16 DATE
 DESCRIPTION ADDED GENERAL NOTES AS PER G.L.O. COMMENTS
 BY JI, CM
 DRAWING NO. C3
 SHEET 4 of 16

FILE NAME: F:\2015\City of South Padre Island\Moonlight Circle Access Improvements\Drawings\Civil\09-C4-DEMOLITION AND SWPP PLAN.dwg LAYOUT NAME: layout1 PLOTTED: Thursday, January 05, 2017 4:38pm USER: CMontalvo



GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE ALL EXCAVATION WITH OTHER RELATED WORK SUCH AS NEW CONCRETE SIDEWALK, TIMBER RAMPS AND WALKWAYS, THAT SHOW EXTENT OF NEW CONSTRUCTION.
2. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE LOCATION OF EXISTING UNDERGROUND UTILITIES NOT SHOWN MUST BE FIELD VERIFIED.
3. CONTRACTOR SHALL BACKFILL ALL VOIDS LEFT BY DEMOLITION AND COMPACT IN A MANNER SUITABLE TO FINAL IMPROVEMENTS.
4. ALL DEMOLISHED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE UNLESS NOTED OTHERWISE ON THE DRAWINGS.
5. ANY DAMAGE TO EXISTING PAVEMENT, DRAINAGE, PRIVATE UTILITY, OR OTHER STRUCTURES SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITION AT CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE SAFETY OF THE PEDESTRIANS AND ALL VEHICULAR TRAFFIC FROM CONSTRUCTION RELATED ACTIVITIES DURING THE COURSE OF THIS PROJECT. A FENCE SHALL BE PROVIDED WHICH COMPLETELY ENCLOSES THE WORK SITE 24 HOURS A DAY.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND SAFETY OF THE WORK, WORKERS, SUBCONTRACTORS, MATERIALS, AND EQUIPMENT.

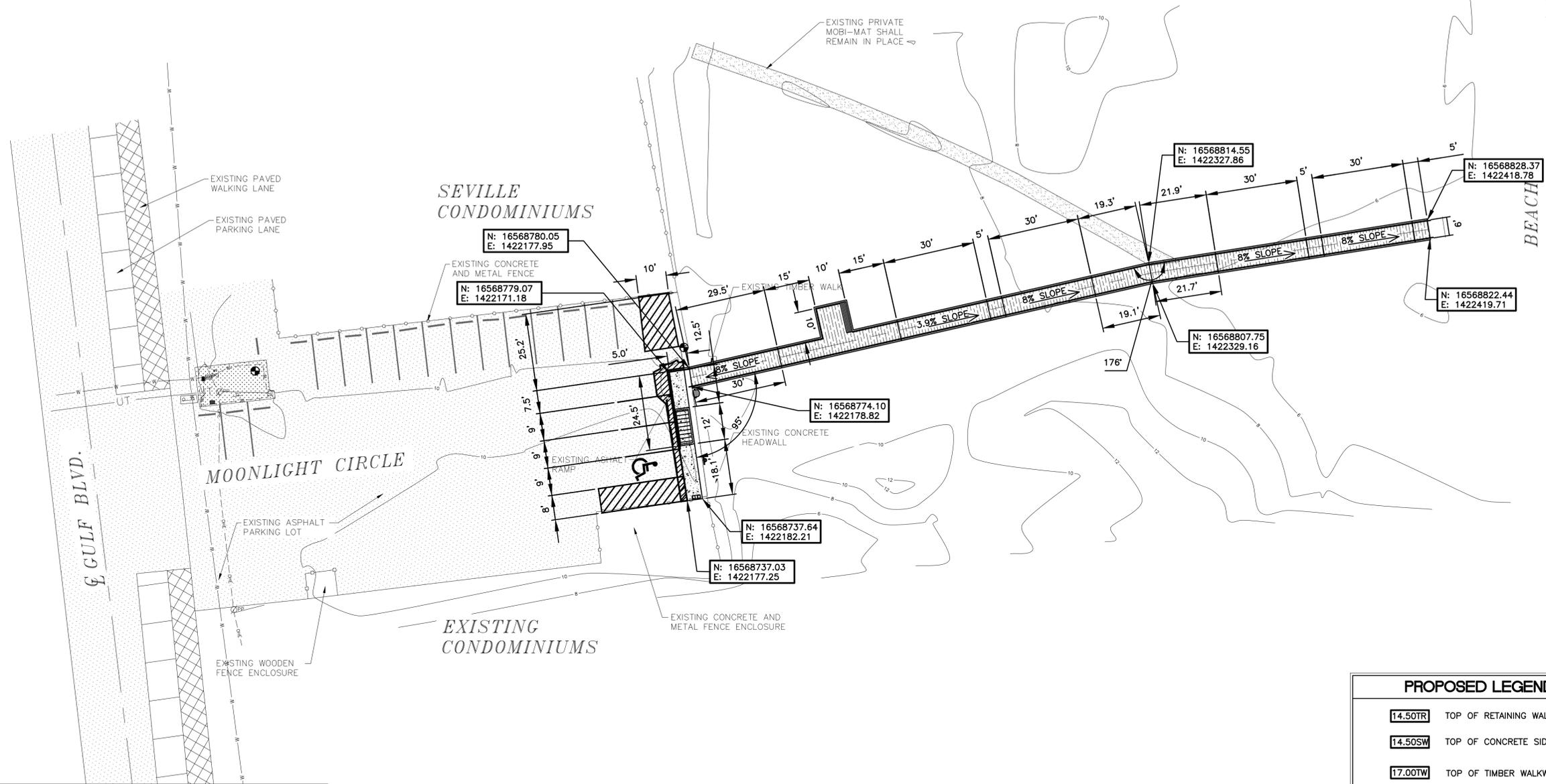
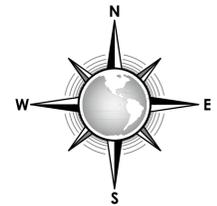


- NOTE:
1. PLACE 6" OF FABRIC INTO AND AGAINST THE TRENCH WALL AND APPROX. 2" ACROSS TRENCH BOTTOM IN UPSTREAM DIRECTION. MINIMUM TRENCH SIZE SHALL BE 6" SQUARE. BACKFILL AND HAND TAMP.
 2. CONNECT THE ENDS OF SUCCESSIVE REINFORCEMENT SHEETS OR ROLLS A MIN. OF 6 TIMES WITH HOG RINGS.

1
C4 C4
TEMPORARY SEDIMENT CONTROL BARRIER DETAIL
SCALE: N.T.S.

CONSULTANT'S SHEET PROJECT NO. 15450-03	
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DESCRIPTION	BY
REVISION NO.	DATE
CITY OF SOUTH PADRE ISLAND MOONLIGHT CIRCLE BEACH ACCESS IMPROVEMENTS BEACH ACCESS #13	
DEMOLITION AND SWPP PLAN	
ADDED GENERAL NOTES AS PER G.L.O.	COMMENTS
11-21-16	JJ, CM
DATE	BY
REVISION NO.	DESCRIPTION
1	11-21-16
C4	C4
DRAWING NO. C4	
SHEET 5 of 16	

FILE NAME: F:\2015\City of South Padre Island\Moonlight Circle Access Improvements\Drawings\Civil\07-C6-STAKING PLAN.dwg LAYOUT NAME: Layout1 PLOTTED: Thursday, January 05, 2017 - 4:38pm USER: cmontelvo



GENERAL NOTES:

- CONTRACTOR SHALL COORDINATE ALL EXCAVATION WITH OTHER RELATED WORK SUCH AS NEW CONCRETE SIDEWALK, TIMBER RAMPS AND WALKWAYS, THAT SHOW EXTENT OF NEW CONSTRUCTION.
- CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE LOCATION OF EXISTING UNDERGROUND UTILITIES NOT SHOWN MUST BE FIELD VERIFIED.
- CONTRACTOR SHALL BACKFILL ALL VOIDS LEFT BY DEMOLITION AND COMPACT IN A MANNER SUITABLE TO FINAL IMPROVEMENTS.
- ALL DEMOLISHED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- ANY DAMAGE TO EXISTING PAVEMENT, DRAINAGE, PRIVATE UTILITY, OR OTHER STRUCTURES SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITION AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE SAFETY OF THE PEDESTRIANS AND ALL VEHICULAR TRAFFIC FROM CONSTRUCTION RELATED ACTIVITIES DURING THE COURSE OF THIS PROJECT. A FENCE SHALL BE PROVIDED WHICH COMPLETELY ENCLOSES THE WORK SITE 24 HOURS A DAY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND SAFETY OF THE WORK, WORKERS, SUBCONTRACTORS, MATERIALS, AND EQUIPMENT.
- ALL DIMENSIONS PERTAINING TO THE TIMBER WALKOVER STRUCTURE ARE TO THE EDGES OF THE WALKING SURFACE. REFER TO STRUCTURAL DETAILS FOR MORE SPECIFIC DIMENSIONS.



PROPOSED LEGEND	
14.50TR	TOP OF RETAINING WALL ELEVATION
14.50SW	TOP OF CONCRETE SIDEWALK ELEVATION
17.00TW	TOP OF TIMBER WALKWAY ELEVATION
14.50TA	TOP OF ASPHALT REPAIR ELEVATION
17.00TC	TOP OF CURB ELEVATION
17.00TF	TOP OF FENCE ELEVATION
00.0	FINISHED GRADE ELEVATION
	PROPOSED CONCRETE SIDEWALK
	PROPOSED TIMBER WALKOVER
	PROPOSED ASPHALT REPAIR
	SLOPE DIRECTION
	PROPOSED SIGN
	PROPOSED WHEEL STOP

CONSULTANT'S SHEET
PROJECT NO. 15450-03

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ICE
INTERNATIONAL CONSULTING ENGINEERS
555 N. CARANCAHUA ST. STE. 860
CORPUS CHRISTI, TX 78401
PHONE: 361.926.5805
FAX: 361.926.5806
I.C.P.E. FIRM REGISTRATION #F-10837

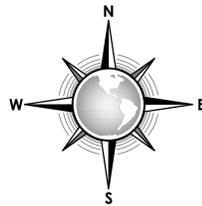
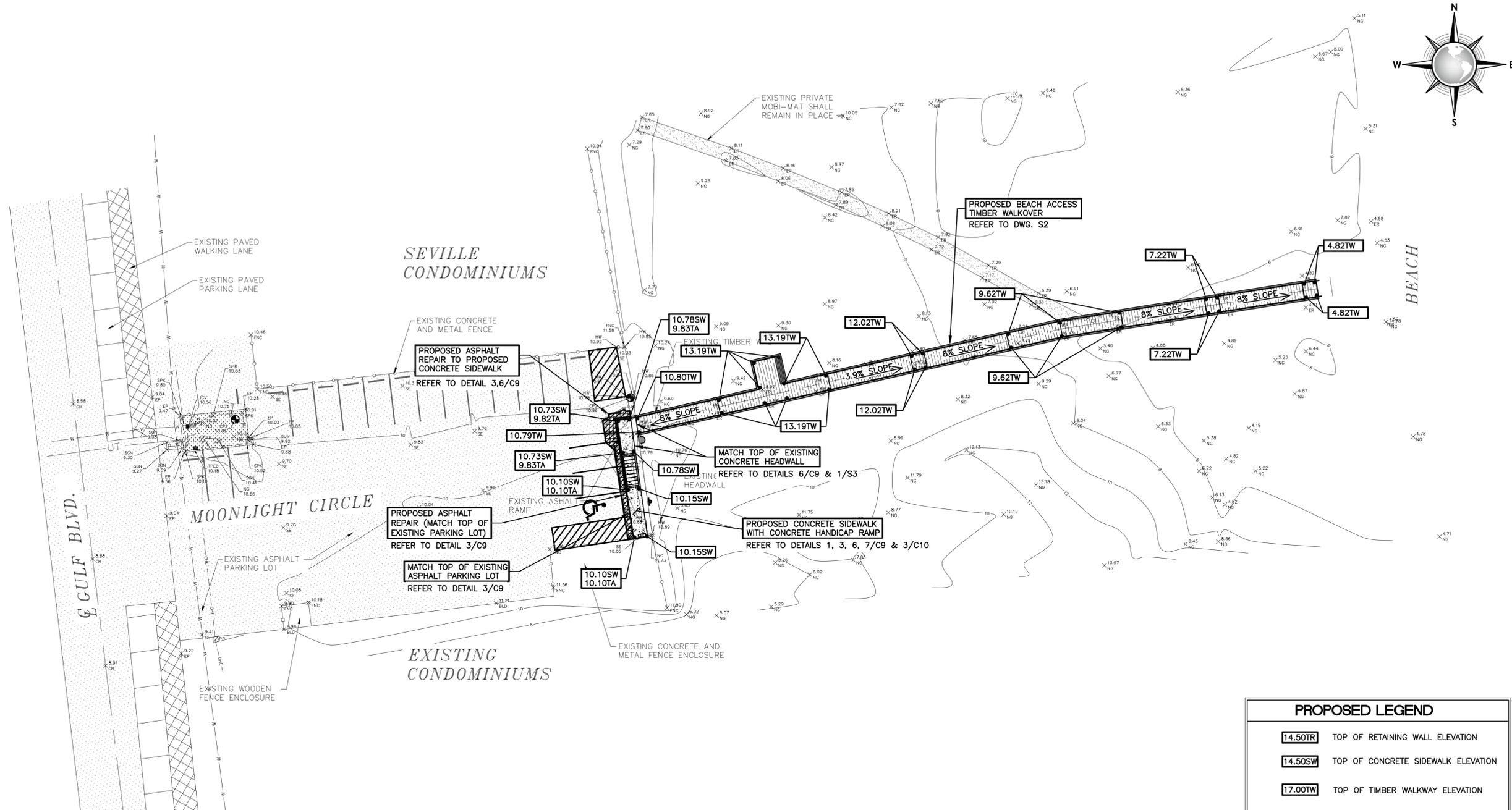


CITY OF SOUTH PADRE ISLAND
MOONLIGHT CIRCLE BEACH ACCESS IMPROVEMENTS
BEACH ACCESS #13
STAKING PLAN

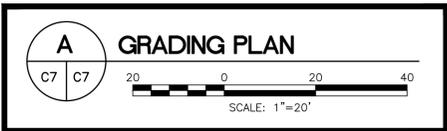
DRAWING NO.
C6
SHEET 7 of 16

REVISION NO.	DATE	BY	DESCRIPTION
11-21-16		JJ, CM	ADDED GENERAL NOTES AS PER G.L.O. COMMENTS

FILE NAME: F:\2015\City of South Padre Island\Moonlight Circle Access Improvements\Drawings\Civil\08-C7-GRADING PLAN.dwg LAYOUT NAME: Layout1 PLOTTED: Thursday, January 05, 2017 4:38pm USER: DkMontalvo



- GENERAL NOTES:**
1. CONTRACTOR SHALL COORDINATE ALL EXCAVATION WITH OTHER RELATED WORK SUCH AS NEW CONCRETE SIDEWALK, TIMBER RAMPS AND WALKWAYS, THAT SHOW EXTENT OF NEW CONSTRUCTION.
 2. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE LOCATION OF EXISTING UNDERGROUND UTILITIES NOT SHOWN MUST BE FIELD VERIFIED.
 3. CONTRACTOR SHALL BACKFILL ALL VOIDS LEFT BY DEMOLITION AND COMPACT IN A MANNER SUITABLE TO FINAL IMPROVEMENTS.
 4. ALL DEMOLISHED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE UNLESS NOTED OTHERWISE ON THE DRAWINGS.
 5. ANY DAMAGE TO EXISTING PAVEMENT, DRAINAGE, PRIVATE UTILITY, OR OTHER STRUCTURES SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITION AT CONTRACTOR'S EXPENSE.
 6. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE SAFETY OF THE PEDESTRIANS AND ALL VEHICULAR TRAFFIC FROM CONSTRUCTION RELATED ACTIVITIES DURING THE COURSE OF THIS PROJECT. A FENCE SHALL BE PROVIDED WHICH COMPLETELY ENCLOSES THE WORK SITE 24 HOURS A DAY.
 7. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND SAFETY OF THE WORK, WORKERS, SUBCONTRACTORS, MATERIALS, AND EQUIPMENT.
 8. FOR DUNE PROFILE AND GRADES, REFER TO DRAWING S2.



PROPOSED LEGEND	
14.50TR	TOP OF RETAINING WALL ELEVATION
14.50SW	TOP OF CONCRETE SIDEWALK ELEVATION
17.00TW	TOP OF TIMBER WALKWAY ELEVATION
14.50PV	TOP OF PAVER ELEVATION
17.00TA	TOP OF ASPHALT ELEVATION
17.00TF	TOP OF FENCE ELEVATION
00.0	FINISHED GRADE ELEVATION
[Pattern]	PROPOSED CONCRETE SIDEWALK
[Pattern]	PROPOSED TIMBER WALKOVER
[Pattern]	PROPOSED ASPHALT REPAIR
[Arrow]	SLOPE DIRECTION
[Symbol]	PROPOSED SIGN
[Symbol]	PROPOSED WHEEL STOP

CONSULTANT'S SHEET
PROJECT NO. 15450-03

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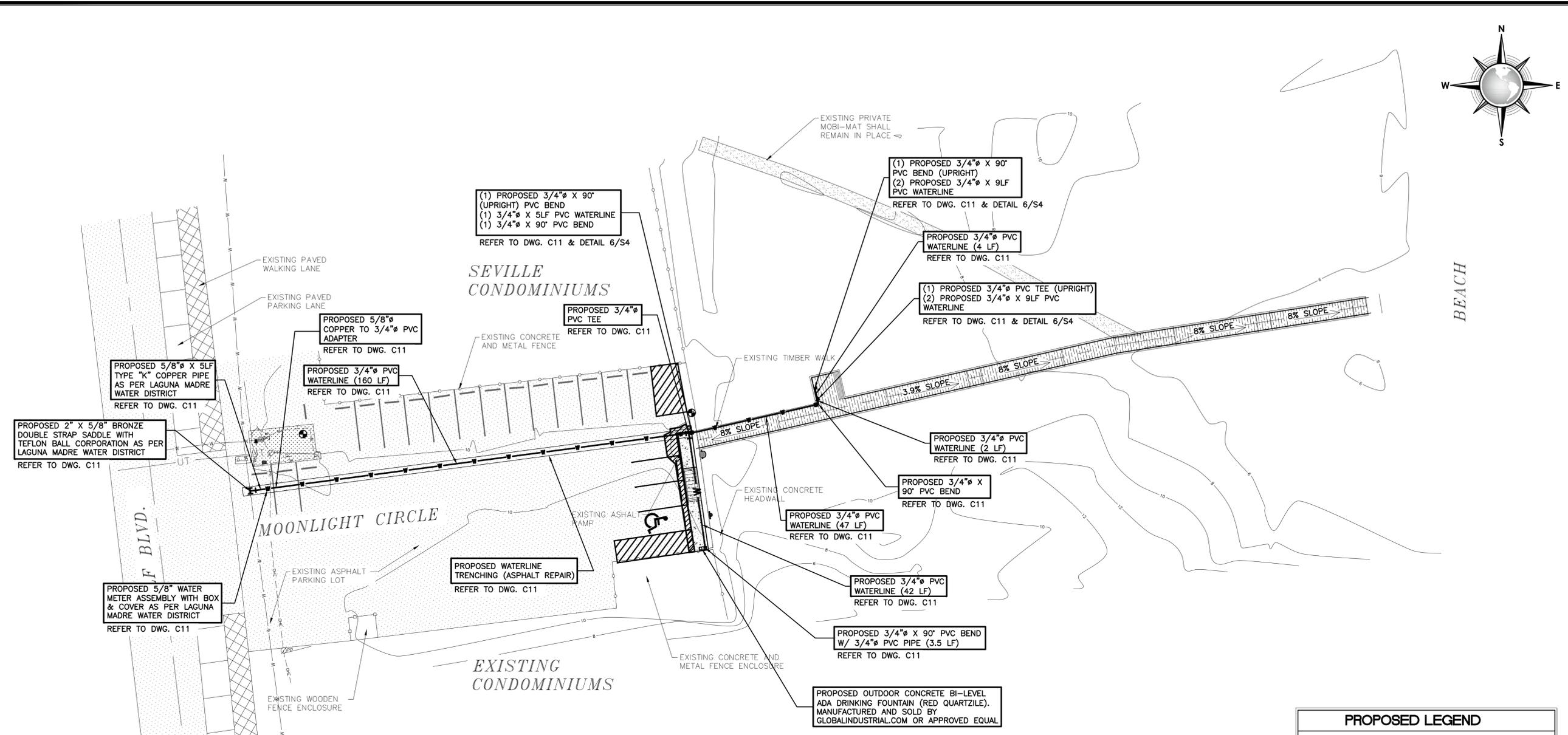
IOE
INTERNATIONAL CONSULTING ENGINEERS
PHONE: 361.926.5805 555 N. CARANAHUA ST. STE. 860
CORPUS CHRISTI, TX 78401
I.C.E. FIRM REGISTRATION #F-10837

CITY OF SOUTH PADRE ISLAND
MOONLIGHT CIRCLE BEACH ACCESS IMPROVEMENTS
BEACH ACCESS #13
GRADING PLAN

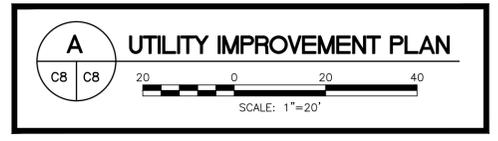
DRAWING NO.
C7
SHEET 8 of 16

REVISION NO.	DATE	BY	DESCRIPTION
11-21-16		JJ, CM	ADDED GENERAL NOTES AS PER G.L.O. COMMENTS

FILE NAME: F:\2015\City of South Padre Island\Moonlight Circle Access Improvements\Civil\09-C8-UTILITY IMPROVEMENT PLAN.dwg LAYOUT NAME: Layout1 PLOTTED: Thursday, January 05, 2017 4:38pm USER: CMartinez



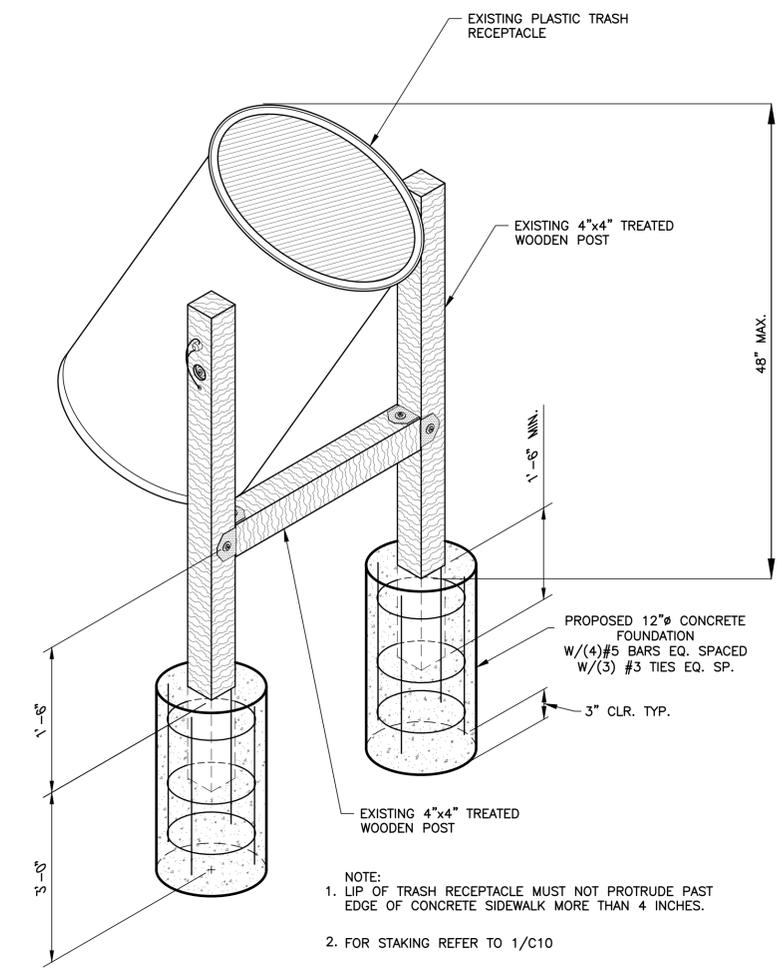
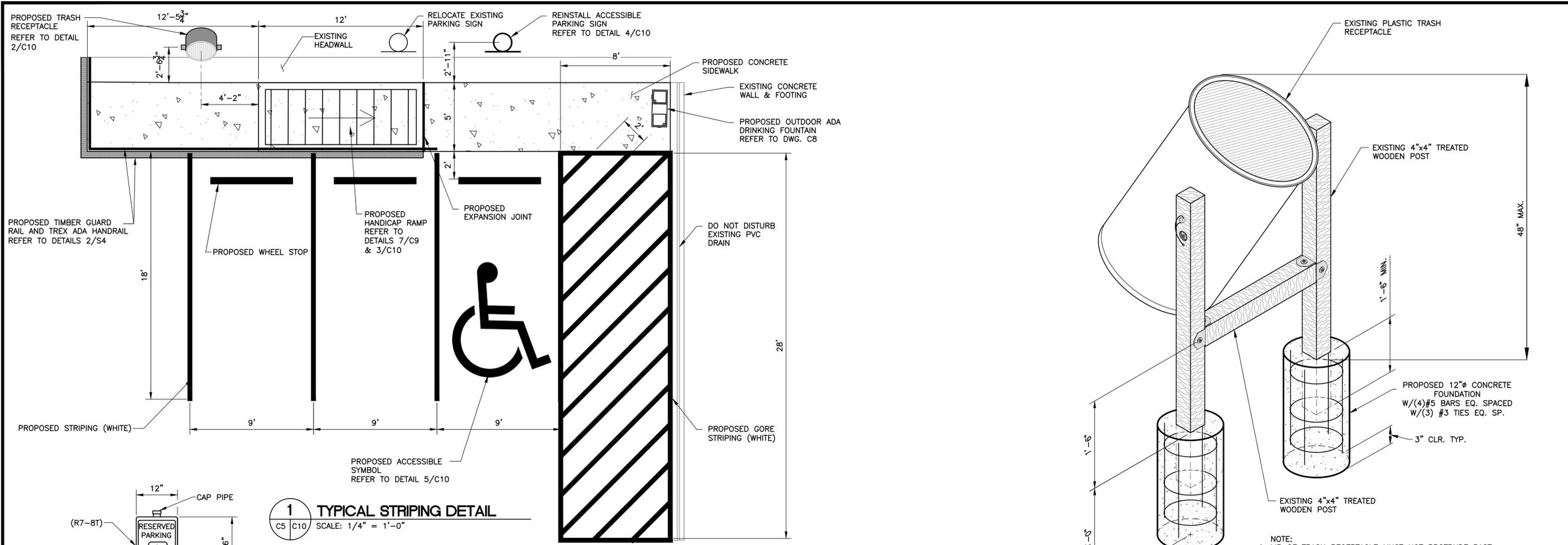
- GENERAL NOTES:**
- CONTRACTOR SHALL COMPLY WITH THE LATEST EDITION OF LAGUNA MADRE WATER DISTRICT STANDARDS AND GUIDELINES.
 - CONTRACTOR SHALL NOTIFY LAGUNA MADRE WATER DISTRICT AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK IN ORDER TO HAVE LAGUNA MADRE WATER DISTRICT AGENT PRESENT DURING WORK.
 - CONTRACTOR TO VERIFY DEPTH OF EXISTING 2" WATERLINE. PROPOSED WATERLINE SHALL HAVE A MINIMUM 3'-0" COVER REQUIREMENT.
 - CONTRACTOR SHALL COORDINATE ALL EXCAVATION WITH OTHER RELATED WORK SUCH AS NEW CONCRETE SIDEWALK, TIMBER RAMPS AND WALKWAYS, THAT SHOW EXTENT OF NEW CONSTRUCTION.
 - CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE LOCATION OF EXISTING UNDERGROUND UTILITIES NOT SHOWN MUST BE FIELD VERIFIED.
 - CONTRACTOR SHALL BACKFILL ALL VOIDS LEFT BY DEMOLITION AND COMPACT IN A MANNER SUITABLE TO FINAL IMPROVEMENTS.
 - ALL DEMOLISHED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE UNLESS NOTED OTHERWISE ON THE DRAWINGS.
 - ANY DAMAGE TO EXISTING PAVEMENT, DRAINAGE, PRIVATE UTILITY, OR OTHER STRUCTURES SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITION AT CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE SAFETY OF THE PEDESTRIANS AND ALL VEHICULAR TRAFFIC FROM CONSTRUCTION RELATED ACTIVITIES DURING THE COURSE OF THIS PROJECT. A FENCE SHALL BE PROVIDED WHICH COMPLETELY ENCLOSES THE WORK SITE 24 HOURS A DAY.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND SAFETY OF THE WORK, WORKERS, SUBCONTRACTORS, MATERIALS, AND EQUIPMENT.
 - ALL THE CONSTRUCTION STAKING AND TESTING SHALL BE PROVIDED BY THE CONTRACTOR.



PROPOSED LEGEND	
14.50TR	TOP OF RETAINING WALL ELEVATION
14.50SW	TOP OF CONCRETE SIDEWALK ELEVATION
17.00TW	TOP OF TIMBER WALKWAY ELEVATION
14.50TA	TOP OF ASPHALT REPAIR ELEVATION
17.00TC	TOP OF CURB ELEVATION
17.00TF	TOP OF FENCE ELEVATION
00.0	FINISHED GRADE ELEVATION
[Pattern]	PROPOSED CONCRETE SIDEWALK
[Pattern]	PROPOSED TIMBER WALKOVER
[Pattern]	PROPOSED ASPHALT REPAIR
[Arrow]	SLOPE DIRECTION
[Symbol]	PROPOSED SIGN
[Line]	PROPOSED WHEEL STOP

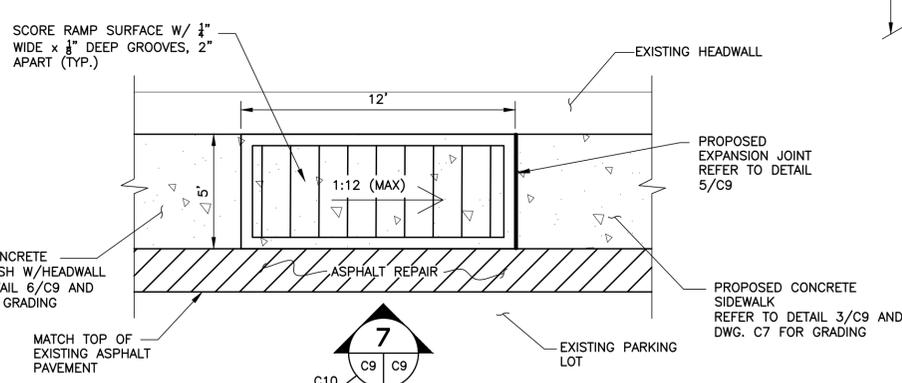
CONSULTANT'S SHEET PROJECT NO. 15450-03	
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DESCRIPTION	BY
REVISION NO.	DATE
CITY OF SOUTH PADRE ISLAND MOONLIGHT CIRCLE BEACH ACCESS IMPROVEMENTS BEACH ACCESS #13	
UTILITY IMPROVEMENT PLAN	
REVISION NO.	DATE
DRAWING NO. C8	
SHEET 9 of 16	

FILE NAME: F:\2015\City of South Padre Island\Wright\Circle Access Improvements\Drawings\Civil\11-C10-PAVEMENT DETAILS.dwg LAYOUT NAME: Layout1 PLOTTED: Thursday, January 05, 2017 - 4:38pm USER: CMonteliva

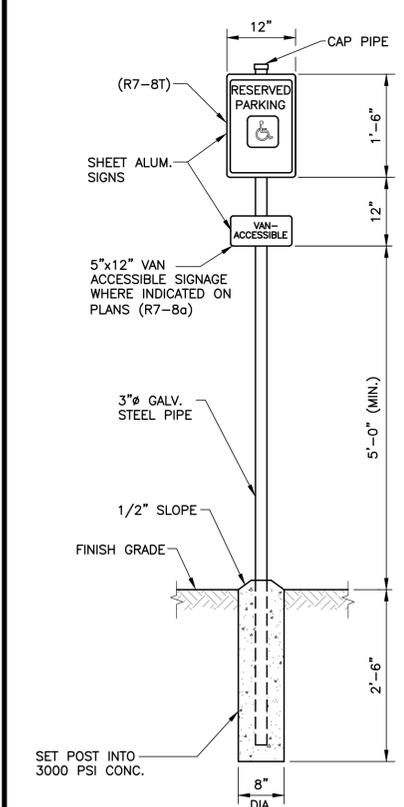


2 PROPOSED TRASH RECEPTACLE FOUNDATION
C12 C5 C10 SCALE: N.T.S.

1 TYPICAL STRIPING DETAIL
C5 C10 SCALE: 1/4" = 1'-0"

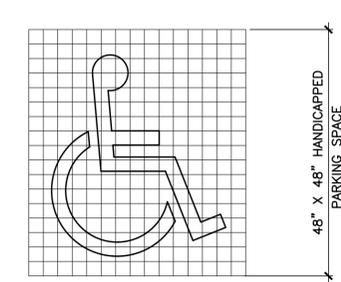


3 PROPOSED HANDICAP CONCRETE RAMP DETAIL
C5 C10 SCALE: 1/4" = 1'-0"



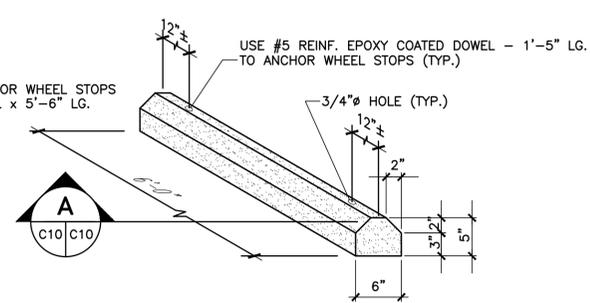
4 ACCESSIBLE PARKING SIGN DETAIL
C5 C10 NOT TO SCALE

NOTE:
1. SIGN FACE SHALL BE REFLECTORIZED FLAT SURFACE SHEETING.
2. SIGN SHALL HAVE WHITE LETTERS AND SYMBOLS ON A BLUE BACKGROUND.
3. SIGNS SHALL BE PROVIDED DIRECTLY IN FRONT OF PARKING SPACE.

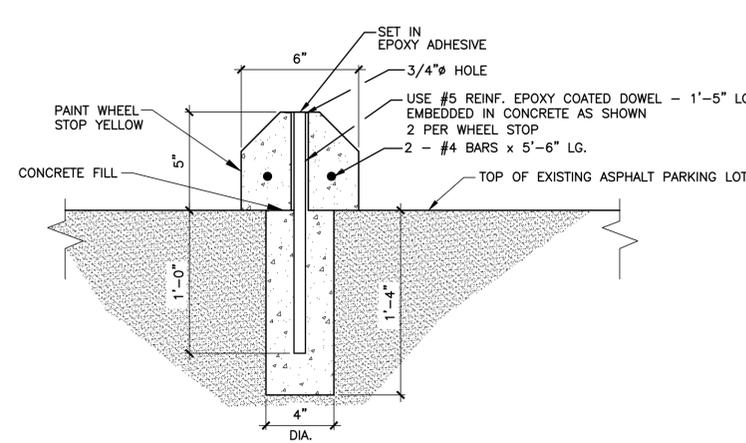


5 ACCESSIBLE SYMBOL DETAIL
C5 C10 SCALE: N.T.S.

NOTE: WHEELCHAIR SYMBOL SHALL BE PAINTED WHITE ON A BLUE BACKGROUND.



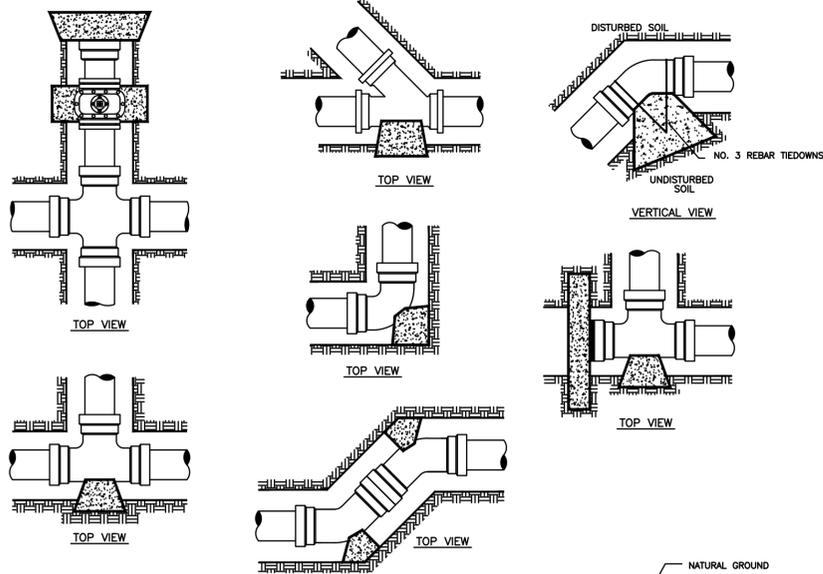
6 WHEEL STOP DETAIL
C5 C10 SCALE: N.T.S.



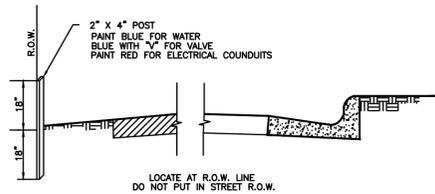
A WHEEL STOP SECTION
C10 C10 SCALE: N.T.S.

CONSULTANT'S SHEET PROJECT NO. 15450-03	
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 INTERNATIONAL CONSULTING ENGINEERS 555 N. CARANAHUA ST. STE. 860 CORPUS CHRISTI, TX 78401 PHONE: 361.926.5805 FAX: 361.926.5806 I.B.P.E. FIRM REGISTRATION #F-10837	
REVISION NO.	DESCRIPTION
BY	
DATE	
CITY OF SOUTH PADRE ISLAND	
MOONLIGHT CIRCLE BEACH ACCESS IMPROVEMENTS	
BEACH ACCESS #13	
PAVEMENT DETAILS	
REVISION NO.	ADDED GENERAL NOTES AS PER G.L.O. COMMENTS
DATE	
BY	
DATE	11-21-16
DRAWING NO.	
C10	
SHEET 11 of 16	

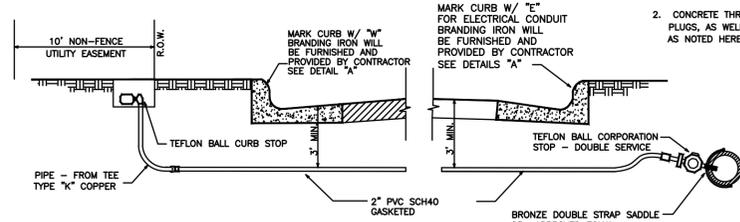
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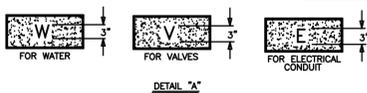
THRUST BLOCK DETAILS
NOT TO SCALE



SERVICE MARKING FOR EXISTING CURB OR NO CURB
NOT TO SCALE



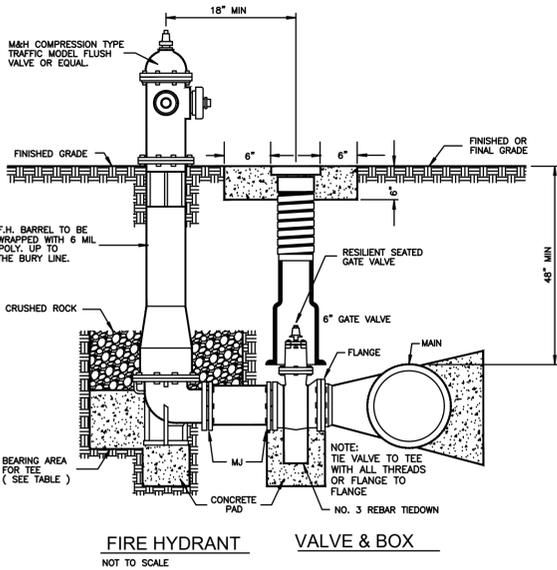
TYPICAL LONG SERVICE
NOT TO SCALE



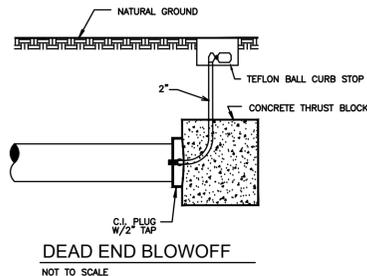
NOTE:
1. USE 2" PVC SCH40 PIPE FOR DOUBLE SERVICE CONNECTIONS.
2. 36" MIN. COVER FOR 2" OR LARGER SERVICES.
3. MARK CURB W/ "W" AT WATER VALVE LOCATIONS, BRANDING IRON WILL BE FURNISHED AND PROVIDED BY CONTRACTOR

PIPE SIZE	6"		8"		10"		12"		16"	
	MIN. BEARING AREA FT.	RECOM'D DIMENSION FT. X FT.	MIN. BEARING AREA FT.	RECOM'D DIMENSION FT. X FT.	MIN. BEARING AREA FT.	RECOM'D DIMENSION FT. X FT.	MIN. BEARING AREA FT.	RECOM'D DIMENSION FT. X FT.	MIN. BEARING AREA FT.	RECOM'D DIMENSION FT. X FT.
TEE (OR TAPPING SLEEVE)	5.9	2.5'x2.5'	10.1	3.2'x3.2'	16.4	4.1'x4.1'	23.3	4.9'x4.9'	40.8	6.4'x6.4'
DEAD END	5.9	2.5'x2.5'	10.1	3.2'x3.2'	16.4	4.1'x4.1'	23.3	4.9'x4.9'	40.8	6.4'x6.4'
VALVE (OR TAPPING VALVE)	5.9	2.5'x2.5'	10.1	3.2'x3.2'	16.4	4.1'x4.1'	23.3	4.9'x4.9'	40.8	6.4'x6.4'
90° ELBOW	8.3	2.9'x2.9'	14.1	3.8'x3.8'	23.1	4.9'x4.9'	23.7	5.8'x5.8'	57.5	7.6'x7.6'
45° ELBOW	4.5	2.2'x2.2'	7.7	2.8'x2.8'	12.6	3.6'x3.6'	17.9	4.3'x4.3'	31.4	5.6'x5.6'
22-1/2' ELBOW	2.3	1.6'x1.6'	3.9	2.0'x2.0'	6.5	2.6'x2.6'	9.2	3.1'x3.1'	15.9	4.0'x4.0'

NOTE:
1. MINIMUM BEARING SURFACE OF THRUST BLOCK SHALL BE AS NOTED IN TABLE.
2. BEARING SURFACE SHALL BE UNDISTURBED SOIL.

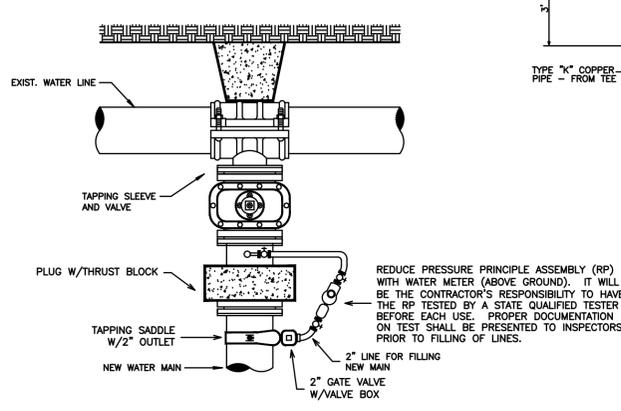


FIRE HYDRANT VALVE & BOX
NOT TO SCALE



DEAD END BLOWOFF
NOT TO SCALE

NOTE:
1. A BLOWOFF TAP, AS SHOWN ON THE DETAIL HEREON SHALL BE PROVIDED AT ALL DEAD ENDS FOR RELEASING TRAPPED AIR TO AID IN FLUSHING, AND FOR SAMPLING FOR TESTING.
2. CONCRETE THRUST BLOCKS SHALL BE REQUIRED AT PLUGS, AS WELL AS AT ALL OTHER LOCATIONS AS NOTED HEREON.



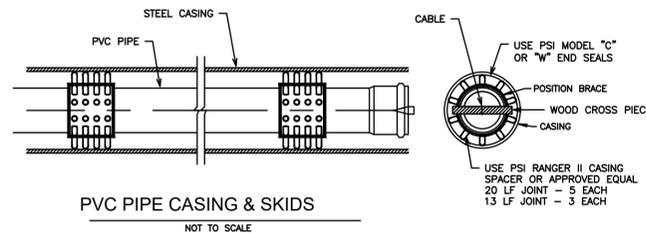
METHOD FOR FILLING AND FLUSHING NEW WATER LINES
NOT TO SCALE

NOTE:
WATER USAGE FOR ALL INITIAL TESTING WILL NOT BE BILLED TO THE CONTRACTOR. ANY RE-TESTING NEEDED WILL BE THE RESPONSIBILITY OF THE CONTRACTOR INCLUDING PAYMENT OF ADDITIONAL WATER NEEDED. CONTRACTOR WILL BE ALLOWED TO FLUSH THE WATERLINE INITIALLY FOR A MAXIMUM OF 12-24 HRS. OR AS DETERMINED BY THE ENGINEER. IF FLUSHING IS DETERMINED TO BE LONGER, THE ENGINEER WILL BE REQUIRED TO SUPPLY THE PROPER DOCUMENTATION AND CALCULATIONS TO SUPPORT SUCH FINDINGS.
AMOUNT OF FLOW TO BE USED FOR FLUSHING WILL BE MONITORED AND REGULATED BY THE DISTRICT INSPECTORS. CONTRACTOR WILL NOT BE ALLOWED TO TIE-IN TO EXISTING WATER LINE UNTIL ALL TEST ON NEW LINES HAVE BEEN COMPLETED AND APPROVED.

STEEL CASING WALL THICKNESS CHART

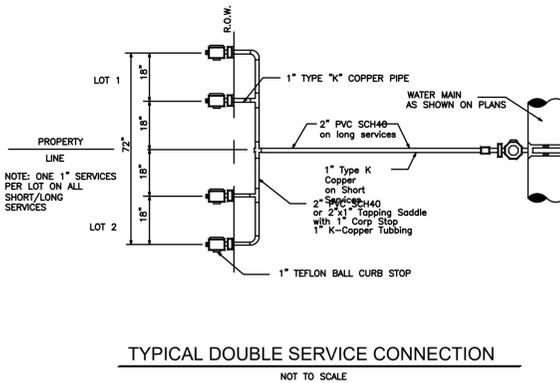
MINIMUM THICKNESS	DIAMETER OF CASING PIPE
1/4"	12" OR LESS
5/16"	OVER 12"-18"
3/8"	OVER 18"-22"
7/16"	OVER 22"-28"
1/2"	OVER 28"-34"
9/16"	OVER 34"-42"
5/8"	OVER 42"-48"

OVER 48" MUST BE APPROVED BY B.P.U.B.
NOTE: THIS CHART IS ONLY FOR SMOOTH STEEL CASING PIPES WITH MINIMUM YIELD STRENGTH OF 35,000 PSI

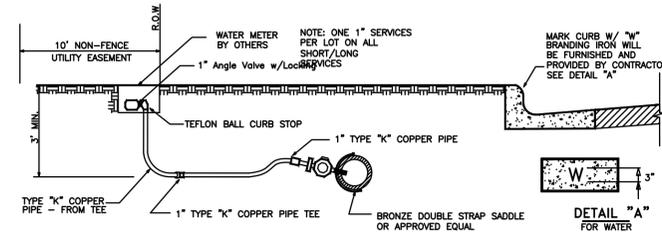


PVC PIPE CASING & SKIDS
NOT TO SCALE

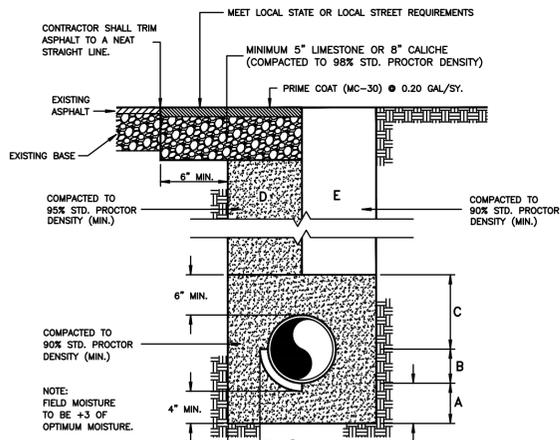
NOMINAL PIPE SIZE	CASING SIZE	NO. OF SKIDS
6"	12"	4
8"	16"	4
12"	20"	4
16"	24"	5



TYPICAL DOUBLE SERVICE CONNECTION
NOT TO SCALE



TYPICAL SHORT SERVICE
NOT TO SCALE



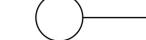
TYPICAL PIPE BEDDING AND TRENCH BACKFILL DETAIL
NOT TO SCALE

A SAND BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE (MIN. THICKNESS = 6").
B SAND BACKFILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE (4" LIFTS, HAND TAMPED).
C SAND BACKFILL PLACED FROM SPRING LINE OF PIPE TO 6" ABOVE TOP OF PIPE (6" LIFTS, HAND TAMPED).
D SAND BACKFILL, CLASS "A" (6" LIFTS, MECHANICAL COMPACTION).
E EARTH BACKFILL, CLASS "B" (12" LIFTS, MECHANICAL COMPACTION).
FOUNDATION PREPARATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE.
BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO 95% STD. PROCTOR DENSITY. THE THICKNESS OF EACH LOOSE LAYER SHALL NOT EXCEED 6". STRUCTURE BACKFILL MATERIAL SHALL BE SAND, APPROVED SITE SOIL, OR OTHER APPROVED SUBSTITUTE.



REVISION NO.	DATE	BY	DESCRIPTION
11-21-16		JJ, CM	ADDED GENERAL NOTES AS PER G.L.O. COMMENTS

FILE NAME: F:\2015\City of South Padre Island\Moonlight Circle Access Improvements\Drawings\Structural\13-1-GENERAL NOTES.dwg LAYOUT NAME: Model PLOTTED: Thursday, January 05, 2017 - 4:39pm USER: OMontalvo

SYMBOLS		MATERIALS			DESIGN																																																																																																																				
 SECTION NUMBER  DETAIL NUMBER  ELEVATION TARGET  REVISIONS  COLUMN GRID	SECTION CUT	CONCRETE			DESIGN LOADS																																																																																																																				
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BASE PLATES	COLUMNS	BEAMS	MISC. PL'S & SHAPES	TUBE STEEL	PIPE	METAL DECK	STRUCT. BOLTS U.N.O.	ANCHOR BOLTS	THREADED ROD	ANCHOR RODS																																																																																																															
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U.N.O. UNLESS NOTED OTHERWISE N.T.S. NOT TO SCALE O.C. ON CENTER E,W. EACH WAY T & B TOP & BOTTOM	REVISIONS	EARTHWORK			DESIGN STD'S. & CODE OF PRACTICE																																																																																																																				
	COLUMN GRID	REINFORCING STEEL ASTM-A615, GRADE 60, U.N.O.			BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318-02 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, ACI 530-05 INTERNATIONAL BUILDING CODE, IBC 2009 CRSI HANDBOOK, 1990 MINIMUM DESIGN LOADS FOR BUILDINGS & OTHER STRUCTURES, ASCE 7-05 STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES SIXTEENTH EDITION-1996, AASHTO																																																																																																																				

HARDWARE

- ADHESIVE ANCHORS SHALL BE "HILTI-RE 500-SD ADHESIVE ANCHORS" PROVIDED BY HILTI OR APPROVED EQUAL.
- FASTENERS DIAMETER AND LENGTH ARE NOTED ON THE PLANS.
- ALL FASTENERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- ALL FASTENERS SHALL BE STAINLESS STEEL.

FOUNDATION AND EARTHWORK

- REMOVE TOP SOIL, ORGANIC MATERIAL AND DEBRIS FROM THE SIDEWALK AREA.
- FOUNDATION SYSTEM: TIMBER PILES
- TIMBER PILES SHALL HAVE A MINIMUM EMBEDMENT OF 15FT BELOW THE PROPOSED SAND DUNE FINISH GRADE.
- COMPACTION REQUIREMENTS FOR EXCAVATION AREAS FOR STRUCTURAL ITEM INSTALLATION: (ASTM D-698, METHOD D)
 BELOW FOOTINGS - 95%
 BELOW SLABS & PAVEMENT - 95%
 UNPAVED AREAS - 90%
 MAXIMUM LIFT - 8" LOOSE DEPTH

COMPOSITE DECKING MATERIAL

- NOMINAL SIZE OF COMPOSITE DECKING MATERIAL FOR PLANKS SHALL BE 2"x6" BOARD.
- COMPOSITE DECKING BOARD MANUFACTURED BY TREX COMPANY, INC., OR EQUIVALENT COMPOSITE DECKING BOARDS MAY BE USED SUBJECT TO REVIEW AND EVALUATION OF THE ENGINEER.
- COMPOSITE DECKING SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS, PROCEDURES AND REQUIREMENTS.
- ALL FASTENERS SHALL BE MADE OF STAINLESS STEEL.
- DECKING SHALL BE DESIGNED AND INSTALLED TO LIMIT BENDING DEFLECTION UNDER TOTAL LOAD TO LESS THAN OR EQUAL TO L/360 DESIGN LIVE LOAD IS 100 PSF.
- THE CONTRACTOR AND MANUFACTURER SHALL SUBMIT TO THE ENGINEER THE FOLLOWING FOR REVIEW AND EVALUATION:
 A. PRODUCT DATA INCLUDING SPECIFICATIONS, PRODUCT HANDLING, AND INSTALLATION INSTRUCTION.
- DECKING PLANKS SHALL BE INSTALLED WITH A 1/2" SPACE BETWEEN PLANKS AS PER GENERAL LAND OFFICE GUIDELINES

DESIGN CRITERIA

- LIVE LOAD 60 PSF
- WIND LOAD: BASED ON ASCE 7-05 REQUIREMENTS FOR 140 MPH WIND
- IMPORTANCE FACTOR 1.00
- EXPOSURE FACTOR C
- FOUNDATION DESIGN IS IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, AND IS BASED ON VALUES RECOMMENDED IN TABLE 1806.2 - PRESUMPTIVE LOAD BEARING VALUES, AS LISTED BELOW:
 END BEARING CAPACITY (WOOD PILES) 500 PSF
 SKIN FRICTION (WOOD PILES) 30 PSF
- A GEOTECHNICAL ENGINEER SHALL BE RETAINED TO PERFORM TESTING AND PRESUMPTIVE LOAD - BEARING VALUES NOTED ABOVE.

TIMBER

- PRIOR TO PILE PLACEMENT, THE CONTRACTOR SHALL PROVIDE THE ENGINEER DATA REGARDING THE PROPOSED HAMMER AND CUSHION SYSTEM.
- PILES SHALL BE ASTM D-25, CLASS "C" TREATED, PEELED SOUTHERN YELLOW PINE OR DOUGLAS FIR. PILES SHALL BE CREOSOTED ACCORDING TO AWPA MANUAL STANDARDS C-3 WITH A MINIMUM RETENTION OF 12 POUNDS PER CUBIC FOOT.
- PILES SHALL HAVE A MINIMUM BUTT DIAMETER OF 14 INCHES AND A MINIMUM TIP DIAMETER OF 12 INCHES.
- A 8" DIAMETER PILOT HOLE MAY BE DRILLED TO A DEPTH OF 5 FEET ABOVE THE FINAL TIP ELEVATION TO FACILITATE PILE DRIVING. JETTING ALONG SIDE OF PILES IS NOT PERMITTED.
- ADEQUATE CUSHING MATERIAL SHALL BE PROVIDED BETWEEN PILE DRIVER CAP AND THE PILE HEAD. A SOFTWOOD CUSHION WITH A THICKNESS OF 6 TO 12 INCHES IS PREFERRED.
- THE PILE DRIVING HELMET OR CAP SHALL BE SUFFICIENTLY LOOSE AROUND THE PILE BUTT SO AS NOT TO DEVELOP TORSIONAL STRESSES IN THE PILE DURING INSTALLATION, HOWEVER THE HELMET SHOULD BE CAPABLE OF CONTROLLING PILE ALIGNMENT.
- THE ENTIRE HAMMER-CUSHION-PILE SYSTEM SHOULD BE COMPATIBLE AND CAPABLE OF DRIVING PILES TO THE DESIGN PENETRATIONS WITHOUT DAMAGING PILES. BLOW COUNTS CONSISTENTLY IN EXCESS OF 50 BLOWS/FOOT ARE NOT IN LINE WITH GOOD PRACTICE.
- PILES SHALL BE PROPERLY ALIGNED PRIOR TO DRIVING AND HELD WITH FIXED LEADS. REALIGNMENT ONCE DRIVING HAS COMMENCED IS NOT PERMITTED.
- ROUGH CARPENTRY SHALL COMPLY WITH THE PROVISIONS OF THE 2009 EDITION OF THE INTERNATIONAL BUILDING CODE.
- ALL LUMBER USED FOR LOAD SUPPORTING PURPOSES SHALL BE IDENTIFIED BY THE GRADE MARK OF AN APPROVED LUMBER GRADING OR INSPECTION BUREAU OR AGENCY.
- ALL LUMBER SHALL BE PRESERVATIVELY TREATED AND SHALL BEAR AN APPROVED AWPA QUALITY MARK. THE QUALITY MARK SHALL BE ON A STAMP OR LABEL AFFIXED TO THE PRESERVATIVE-TREATED WOOD, AND SHALL INCLUDE THE FOLLOWING INFORMATION:
 A. IDENTIFICATION OF TREATING MANUFACTURER.
 B. TYPE OF PRESERVATIVE USED.
 C. MINIMUM PRESERVATIVE RETENTION (pcf).
 D. END USE FOR WHICH THE PRODUCT IS TREATED.
 E. AWPA STANDARD TO WHICH THE PRODUCT WAS TREATED.
 F. IDENTITY OF THE ACCREDITED INSPECTION AGENCY.
- FRAMING LUMBER MOISTURE CONTENT SHALL NOT EXCEED 19 PERCENT AT TIME OF INSTALLATION.
- MATERIALS
 A. FRAMING LUMBER

USE-ITEM	LUMBER SPECIES	MINIMUM GRADE
JOISTS, BEAMS	SOUTHERN PINE	#1
PLANKS	2x6 COMPOSITE DECKING	SEE MFR. REQUIREMENTS

 B. FASTENERS
 1. NAILS, BOLTS, AND ALL OTHER FASTENERS SHALL BE STAINLESS STEEL.
- VERTICAL FRAMING MEMBERS SHALL BE CONTINUOUS LENGTH WITHOUT SPLICING. SPLICES IN HORIZONTAL MEMBERS SHALL OCCUR ONLY OVER BEARING POINTS. LAP MEMBERS WHICH BEAR ON PLATES TO PROVIDE FULL BEARING FOR EACH MEMBER.
- STRUCTURAL MEMBERS WHOSE STRENGTH IS IMPAIRED BY IMPROPER CUTTING, DRILLING, OR EXCESSIVE DEFECTS SHALL BE REPLACED OR REINFORCED IN A MANNER ACCEPTABLE TO THE ENGINEER.
- PROVIDE SOLID BLOCKING BETWEEN FLOOR JOIST AT BEARING LOCATIONS AND AT MID OPENING OF SPANS GREATER THAN 8'-0" OR AS NOTED. BLOCKING TO MATCH SIZE OF FRAMING MEMBER.
- ALL METAL HANGERS, ETC., SHALL BE STAINLESS STEEL.

CONSULTANT'S SHEET
PROJECT NO. 15450-03

c:\Users\JCE\Desktop\00000001.dwg

IE
 INTERNATIONAL CONSULTING ENGINEERS
 555 N. CARANAHUA ST. STE. 860
 CORPUS CHRISTI, TX 78401
 PHONE: 361.926.5805
 FAX: 361.926.5806
 I.C.E. FIRM REGISTRATION #F-10837

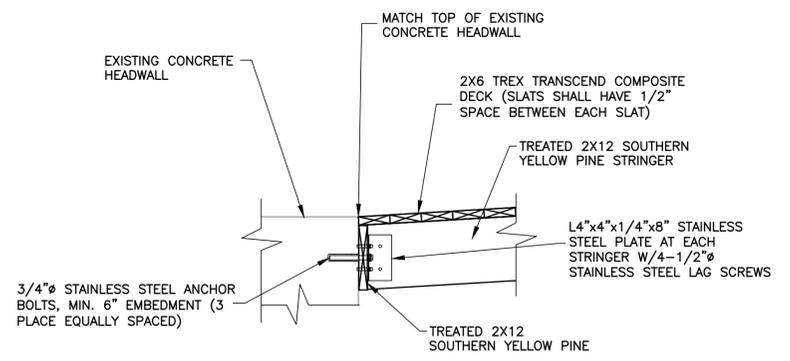
South Padre Island

CITY OF SOUTH PADRE ISLAND
 MOONLIGHT CIRCLE BEACH ACCESS IMPROVEMENTS
 BEACH ACCESS #13
 STRUCTURAL NOTES

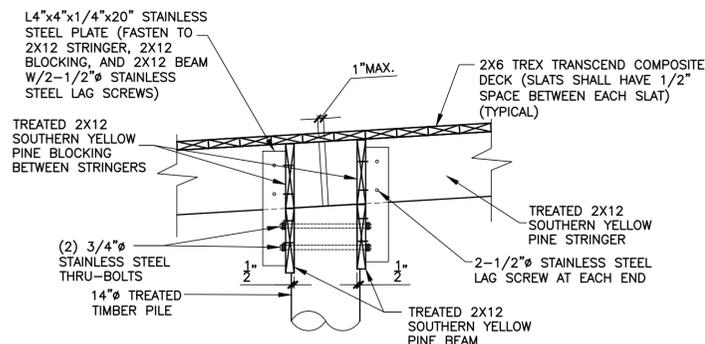
DRAWING NO.
S1
SHEET 13 of 16

REVISION NO.	DATE	BY	DESCRIPTION
11-21-16		JJ, CM	ADDED GENERAL NOTES AS PER G.L.O. COMMENTS

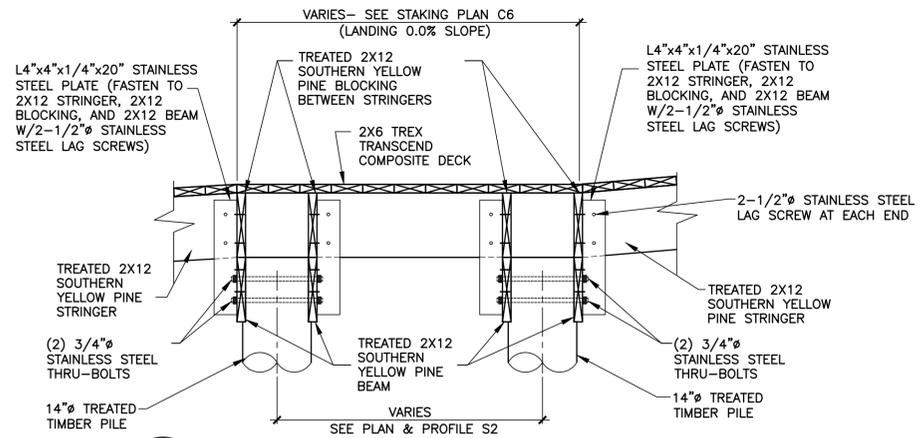
FILE NAME: F:\2015\City of South Padre Island\Woonlight Circle Access Improvements\Drawings\Structural\19-S3-FRAMING DETAILS.dwg LAYOUT NAME: Layout1 PLOTTED: Thursday, January 05, 2017 4:39pm USER: ckonstantin



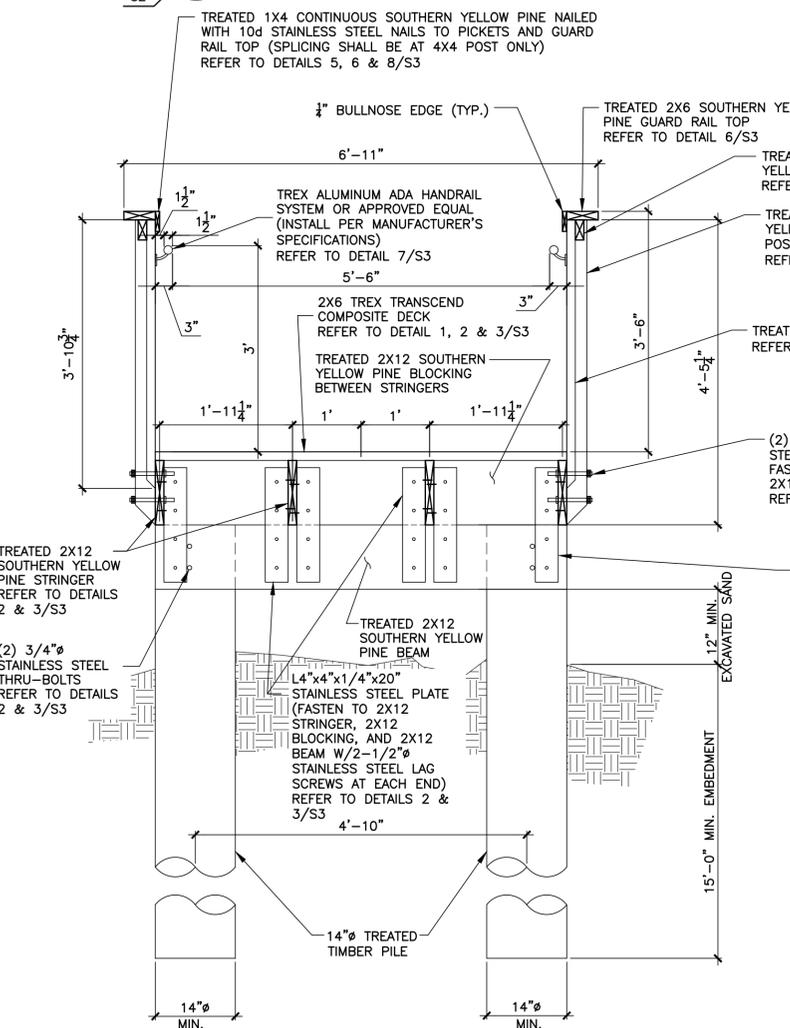
1 PROPOSED TIMBER WALKWAY TO EXISTING HEADWALL TIE-IN SECTION
SCALE: 3/4" = 1'-0"



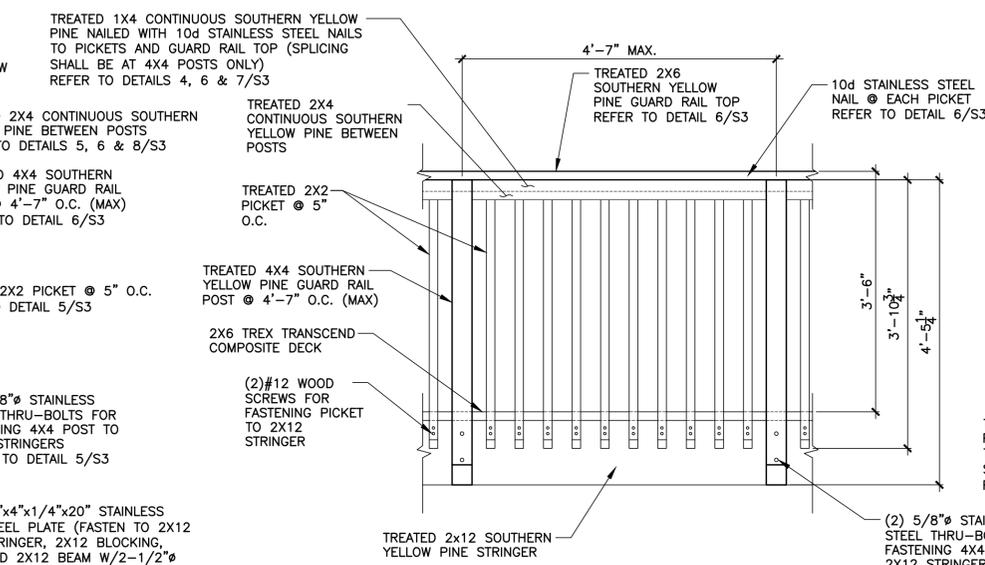
2 TIMBER PILE DETAIL AT RAMP
SCALE: 3/4" = 1'-0"



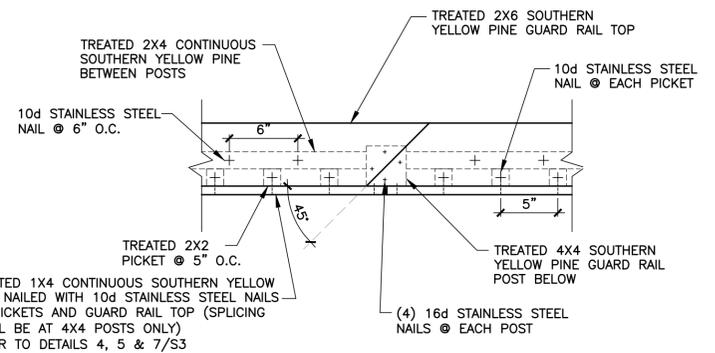
3 TIMBER PILE DETAIL AT LANDING
SCALE: 3/4" = 1'-0"



4 TYPICAL WALKOVER SECTION
SCALE: 3/4" = 1'-0"

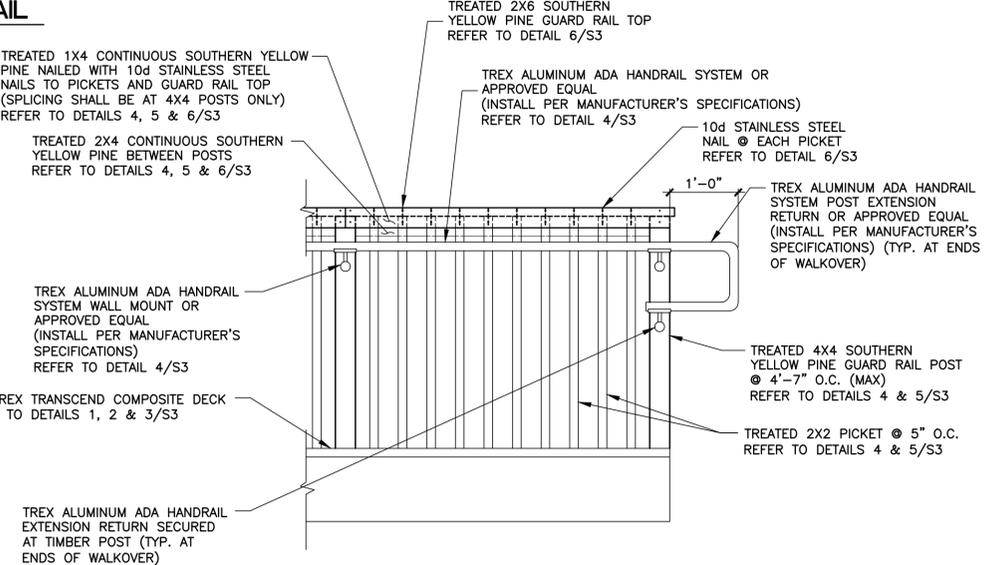


5 TYPICAL GUARD RAIL DETAIL
SCALE: 3/4" = 1'-0"



6 2X6 TOP GUARD RAIL SPLICE DETAIL (TYP.)
SCALE: 1-1/2" = 1'-0"

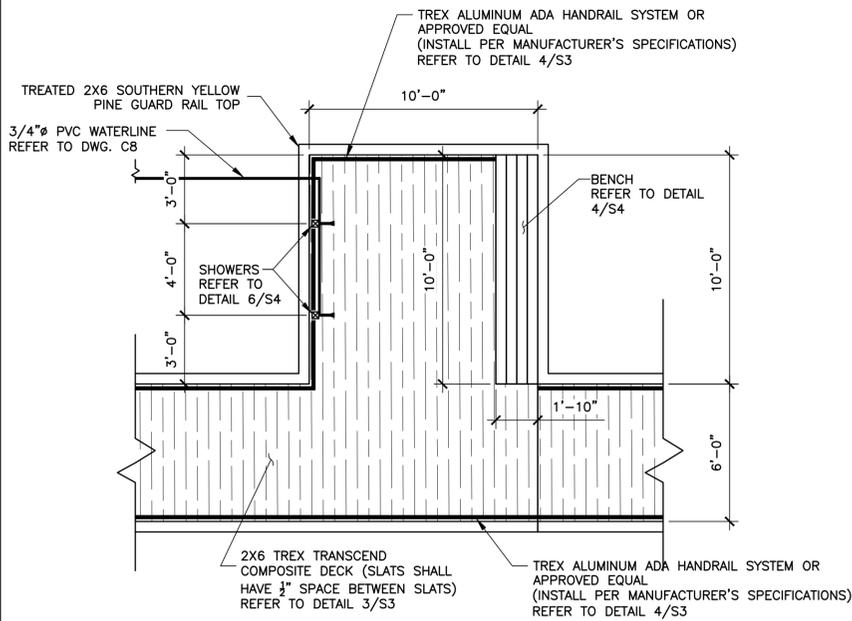
- GENERAL NOTES:**
- ALL TIMBER CONSTRUCTION INCLUDING PILING, DECKING AND RAILING SHALL BE IN STRICT ACCORDANCE WITH PROJECT SPECIFICATIONS.
 - ALL TIMBER PILING SHALL HAVE A MINIMUM ALLOWABLE COMPRESSIVE STRESS OF 1200 PSI AND BENDING STRESS OF 2400 PSI, IN CONFORMANCE WITH ASTM D25-79 CLASS B.
 - ALL PILES SHALL HAVE ENOUGH LENGTH TO ALLOW FOR THE REQUIRED 15 FT OF EMBEDMENT PLUS THE LENGTH NECESSARY TO REACH ITS DECK ELEVATION AS WELL AS HAVE A BUTT DIA. OF 14".
 - ALL CONNECTION HARDWARE SHALL BE STAINLESS STEEL.
 - NAILS, BOLTS, WASHERS AND ALL OTHER FASTENERS SHALL BE STAINLESS STEEL.
 - REFER TO DWG. C6 FOR SITE STAKING PLAN.
 - REFER TO DWG. C7 FOR SITE GRADING PLAN.
 - ALL TIMBER SHALL BE TREATED (REFER TO S1/TIMBER NOTE 11)
 - ALL TREX DECKING PLANKS SHALL BE INSTALLED WITH A 1/2" SPACE BETWEEN ADJACENT PLANKS.



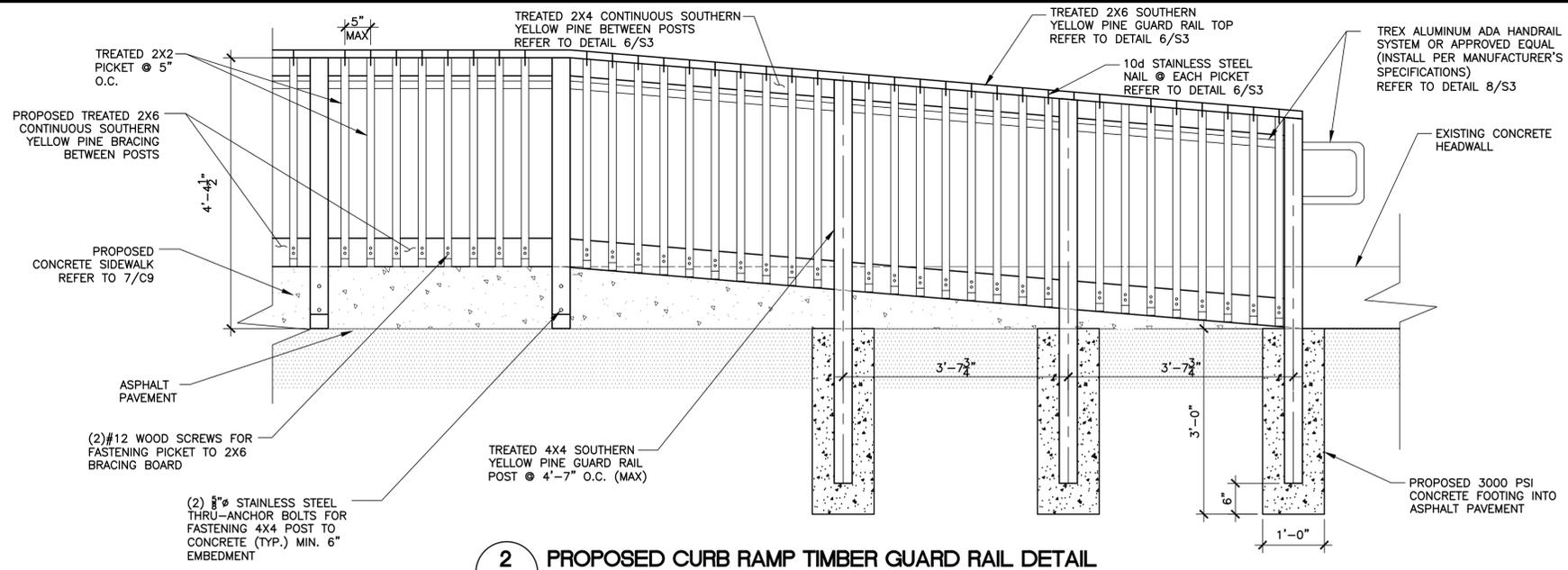
7 TYPICAL TREX ADA HANDRAIL DETAIL
SCALE: 3/4" = 1'-0"

CONSULTANT'S SHEET PROJECT NO. 15450-03	
DESCRIPTION	BY
REVISION NO.	DATE
ADDED GENERAL NOTES AS PER G.L.O. COMMENTS	DESCRIPTION
11-21-16	CITY OF SOUTH PADRE ISLAND MOONLIGHT CIRCLE BEACH ACCESS IMPROVEMENTS BEACH ACCESS #13
DATE	FRAMING DETAILS
REVISION NO.	DRAWING NO. S3
	SHEET 15 of 16

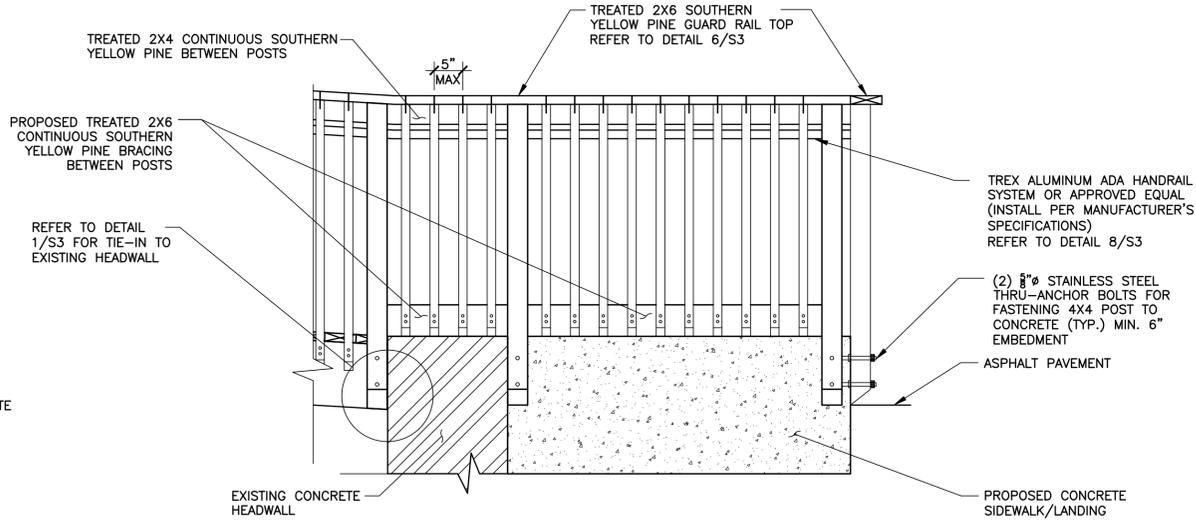
FILE NAME: F:\2015\City of South Padre Island\Wright Circle Access Improvements\Drawings\Structural\16-S4-MISCELLANEOUS DETAILS.dwg LAYOUT NAME: Layout1 PLOTTED: Thursday, January 05, 2017 - 4:38pm USER: CMentelive



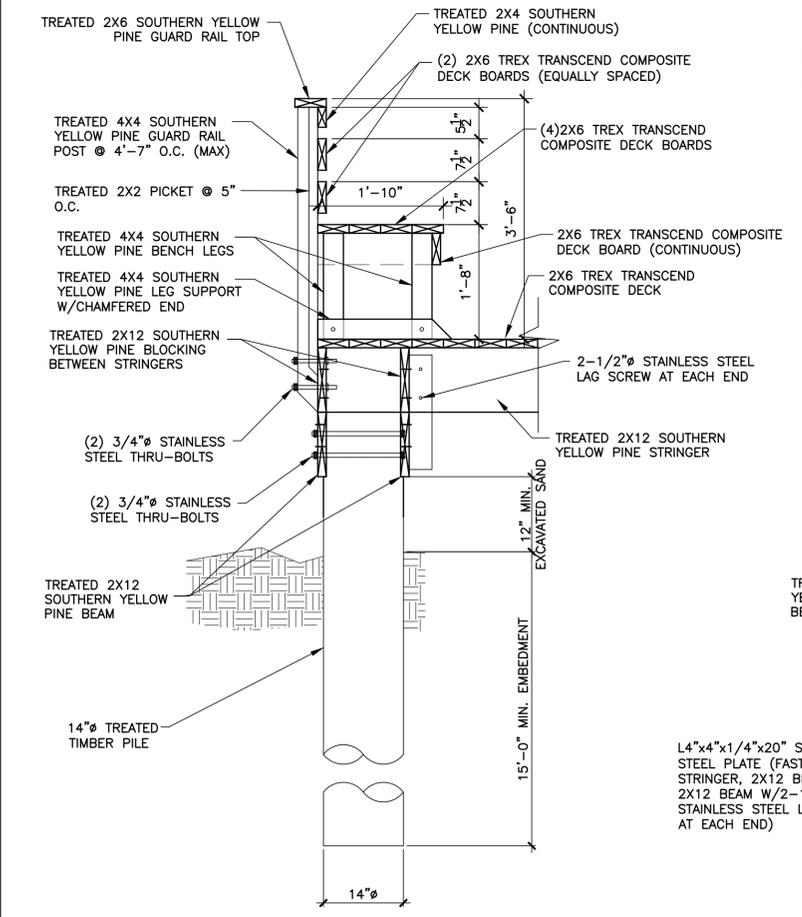
1 PROPOSED WASH STATION DETAIL
 C5 S4 SCALE: 1/4" = 1'-0"
 S2



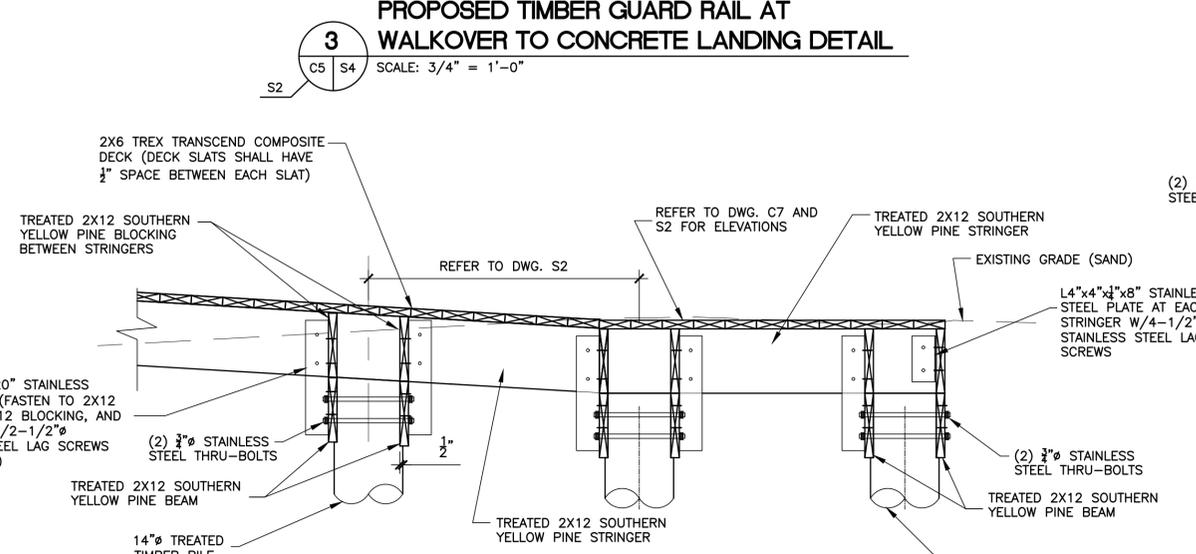
2 PROPOSED CURB RAMP TIMBER GUARD RAIL DETAIL
 C5 S4 SCALE: 3/4" = 1'-0"



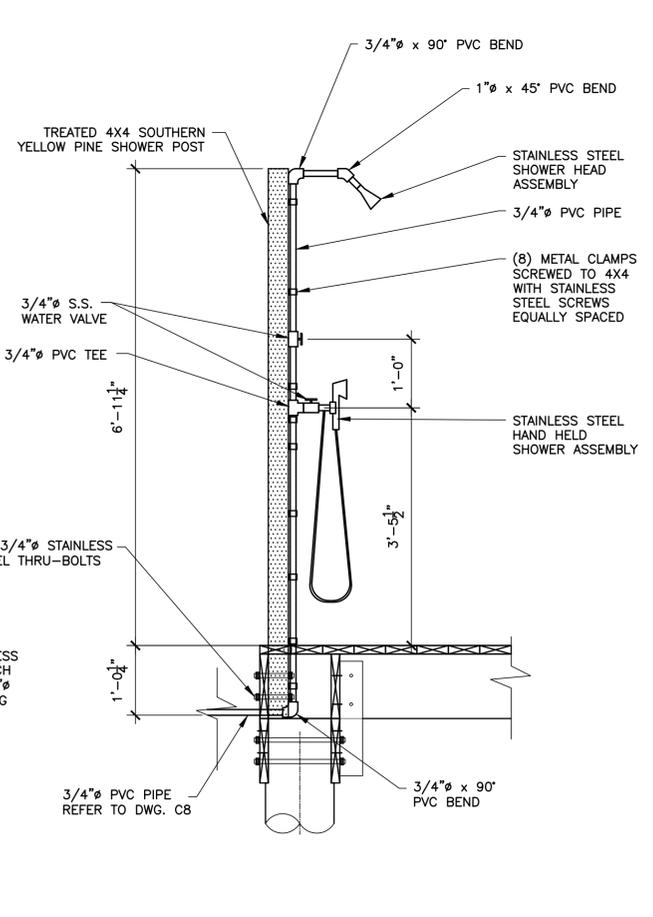
3 PROPOSED TIMBER GUARD RAIL AT WALKOVER TO CONCRETE LANDING DETAIL
 C5 S4 SCALE: 3/4" = 1'-0"
 S2



4 PROPOSED WASH STATION BENCH DETAIL
 S4 S4 SCALE: 3/4" = 1'-0"



5 PROPOSED RAMP END DETAIL
 S2 S4 SCALE: 3/4" = 1'-0"



6 PROPOSED WASH STATION SHOWER DETAIL
 S4 S4 SCALE: 3/4" = 1'-0"
 C8

Brandon Hill

From: Patrick McNulty <pjmcnulty@me.com>
Sent: Friday, March 24, 2017 1:12 PM
To: Brandon Hill
Subject: RE: Bid - Moonlight Circle

Brandon –

The bid subited is inclusive of Addendum #1 and there are no additional cost.

Thanks

From: Brandon Hill [mailto:BHill@MySPI.org]
Sent: Friday, March 24, 2017 1:08 PM
To: carlos@icengineers.net; 'Patrick McNulty' <pjmcnulty@me.com>; 'Jesus J. Jimenez, PE, CFM' <jj@icengineers.net>
Subject: RE: Bid - Moonlight Circle

Patrick,

Can you also send me written confirmation of the addendum?

Thanks

Brandon Hill | Shoreline Management Director
City of South Padre Island |Shoreline Management
4601 Padre Blvd South Padre Island, Texas 78597
Office: 956-761-8166 | Fax: 956-761-3898 |
E-mail: BHill@myspi.org www.MySPI.org



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From: Carlos Montalvo [mailto:carlos@icengineers.net]
Sent: Friday, March 24, 2017 12:56 PM
To: Brandon Hill <BHill@MySPI.org>; 'Patrick McNulty' <pjmcnulty@me.com>; 'Jesus J. Jimenez, PE, CFM' <jj@icengineers.net>
Subject: RE: Bid - Moonlight Circle

Brandon and Patrick,

The timeline sounds good to us as well. Patrick, you can begin to send us submittals as soon as you are ready so that we can review and approve before the preconstruction meeting. This will help construction flow a lot smoother once the precon is done. Feel free to contact me if I can be of further assistance.

Thank you,

Carlos Montalvo
Civil Designer / Estimator



INTERNATIONAL CONSULTING ENGINEERS
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Corpus Christi, TX 78401
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Fax: 361.826.5806

From: Brandon Hill [<mailto:BHill@MySPI.org>]
Sent: Friday, March 24, 2017 9:11 AM
To: Patrick McNulty <pjmcnulty@me.com>; carlos@icengineers.net; 'Jesus J. Jimenez, PE, CFM' <jj@icengineers.net>
Subject: RE: Bid - Moonlight Circle

We will need to have a special SLTF meeting to approve the award before it goes in front of City Council, I will take care of that. I like the proposed timeline. Does it sound attainable to you Carlos and JJ?

Thanks

Brandon N. Hill

Brandon Hill | Shoreline Management Director
City of South Padre Island |Shoreline Management
4601 Padre Blvd South Padre Island, Texas 78597
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From: Patrick McNulty [<mailto:pjmcnulty@me.com>]
Sent: Tuesday, March 21, 2017 11:47 AM
To: carlos@icengineers.net; 'Jesus J. Jimenez, PE, CFM' <jj@icengineers.net>
Cc: Brandon Hill <BHill@MySPI.org>
Subject: FW: Bid - Moonlight Circle

Below is the lead time on material for the project. If we are looking of May 1st, we will need to have a pre-construction meeting before April 15th and a notice to proceed date of April 21st. Of course these dates are subject to City Council approval at the April 5th meeting.

Do you want me to start submittals? Also, I need to know where we can access the beach with the crane and backhoe, so that we can predrill and hammer the pilings in?

Thanks
Patrick

From: Danny Delgado [<mailto:dd5936@aol.com>]
Sent: Tuesday, March 21, 2017 8:54 AM

To: pjmcnulty@me.com

Subject: Re: Bid - Moonlight Circle

lead time on pilings, decking and handrail is 2-3 weeks
fasteners 10 working days

I will start gathering submittals and sent them to you

-----Original Message-----

From: Patrick McNulty <pjmcnulty@me.com>

To: 'Danny Delgado' <dd5936@aol.com>

Sent: Mon, Mar 20, 2017 4:30 pm

Subject: Bid - Moonlight Circle

Danny –

It looks like Willis was the low bid on the project. Please provide lead time for the material. I will also need submittals on all material.

Thanks

Patrick J. McNulty
5813 Padre Blvd
South Padre Island, Texas 78597
956.572.3191 fax 844.572.3192
pjmcnulty@me.com
www.willisdevelopment.com
www.oxfordburgerco.com (Opening April 2017)
www.spirentals.com
www.tgreo.com

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