

SOUTH PADRE ISLAND, TEXAS MARISOL BOAT RAMP PROJECT

CONSTRUCTION PLANS FOR

|TB 2025 - SL01

LJA PROJECT No.: C275-21184

5350 S. Staples Street, Suite 425 Corpus Christi, Texas 78411 phone 361.991.8550

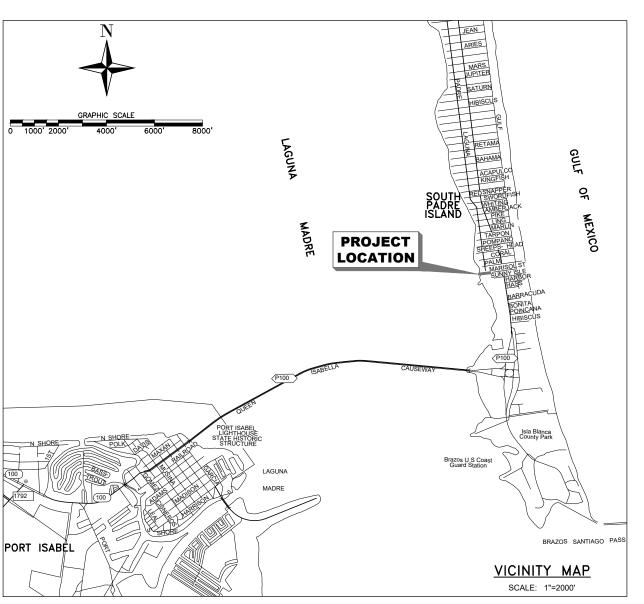
TDLR REGISTRATION No. TABS2023004314











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PROJECT No.:

12/22/2023

C275-21184

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DECEMBER 2023

GENERAL NOTES:

1. PROJECT CONTROL INFORMATION:

PROJECT CONTROL IS DRILLED HOLE IN BULKHEAD CAP NORTHING = 16562723.818 FASTING = 1421444.282ELEVATION = 4.97

PROJECT CONTROL IS CHISELED 'X' ON CONCRETE INLET NORTHING = 16562753.491 FASTING = 1421788.232ELEVATION = 3.20

PROJECT CONTROL IS DRILLED HOLE IN BULKHEAD CAP NORTHING = 16562731.397 ELEVATION = 5.19

ALL HORIZONTAL INFORMATION SHOWN IS IN N.A.D. 83 DATUM, TEXAS SOUTH ZONE 4205, AS OBSERVED BY GPS. ALL VERTICAL INFORMATION SHOWN IS IN N.A.D. 88 DATUM, U.S. SURVEY FEET.

2. EXISTING UTILITIES AND STRUCTURES:

EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE BASED ON CITY'S GIS MAP AS WELL AS AN ON THE GROUND SURVEY PERFORMED BY LJA ENGINEERING, INC. EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY AND DO NOT NECESSARILY REPRESENT THE EXACT LOCATION OF SUCH FACILITIES, NOR IS IT IMPLIED THAT ALL EXISTING UTILITIES ARE SHOWN ON THE DRAWINGS. LJA ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR THE EXISTENCE OR LOCATION OF ANY SUBSURFACE UTILITIES OR STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY OWNERS AND LOCATING ALL EXISTING UTILITIES PRIOR TO COMMENCING WITH ANY CONSTRUCTION OPERATIONS.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL UTILITIES AND PRIVATE OR PUBLIC PROPERTY ON OR NEAR THE PROJECT FROM DAMAGE DURING CONSTRUCTION, ANY DAMAGE TO EXISTING UTILITIES AND PRIVATE OR PUBLIC PROPERTY SHALL BE REMEDIED AND PAID FOR IN WHOLE BY THE CONTRACTOR.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE OR OTHERWISE PROVIDE FOR THE ADJUSTMENT OR RELOCATION OF ANY UTILITIES AS REQUIRED TO COMPLETE THE PROPOSED CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES AS NECESSARY TO IMPLEMENT THE PROPOSED CONSTRUCTION, NO SEPARATE PAYMENT WILL BE MADE FOR ANY SUCH ADJUSTMENTS OF RELOCATIONS, FORESEEN OR UNFORESEEN

CONTRACTOR TO REPLACE ALL SIGNS, CULVERTS, FENCES, AND OTHER APPURTENANCES REMOVED DURING CONSTRUCTION, NO SEPARATE PAY,

CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES 48 HOURS PRIOR TO THE START OF CONSTRUCTION:

EMERGENCY 911 CITY OF SOUTH PADRE ISLAND - (596) 761-6456 FIRE DEPARTMENT - (596) 761-3040 POLICE DEPARTMENT - (956) 761-5454 PUBLIC WORKS- (956) 761-8159 <u>U3.GUENAP MORRAT OUR YERE XCX VIAT (000</u>6) 943-2626 ENVIRONMENTAL HEALTH SERVICES (956) 761-8123 LJA ENGINEERING, INC. - (361) 991-8550

PRIOR TO ANY CONSTRUCTION WHEREVER ON THE PROJECT, CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION TO LOCATE BULKHEAD DEADMAN ANCHORS, WITHOUT DISTURBING THEM, AND OTHER UNDERGROUND UTILITIES.

THE WORK SHALL BE PERFORMED PRIOR TO COMMENCEMENT OF CONSTRUCTION AND CONFLICTS WITH PROPOSED CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER.

CONTRACTOR SHALL THEN PREPARE A SET OF MARKED PLANS AND SUBMIT IT TO THE ENGINEER FOR APPROVAL INDICATING BULKHEAD DEADMAN ANCHORS, THE OWNER OF PIPELINES AND UTILITIES EXCAVATED AND SURVEYED, AS WELL AS THE APPROXIMATE STATION THEREOF, DISTANCE TO THE PROPOSED IMPROVEMENTS AND ELEVATIONS OF THE TOP OF EXISTING PIPELINES AND PROPOSED PROFILE OF NEW IMPROVEMENTS IF DIFFERENT FROM THAT SHOWN ON THE PLANS. THE ENGINEER WILL REQUIRE 10 WORKING DAYS AFTER RECEIPT IN HIS OFFICE OF THE MARKED PLANS TO REVIEW, ANALYZE AND, IF NECESSARY, MAKE CHANGES IN ALIGNMENT AND/OR ELEVATION

CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM ANY CONSTRUCTION WORK ON THE PROJECT UNTIL ALL EXPLORATORY EXCAVATIONS HAVE BEEN MADE IN THEIR ENTIRETY. THE RESULTS THEREOF REPORTED TO THE ENGINEER AND UNTIL CONTRACTOR RECEIVES ENGINEER'S APPROVAL OF REPORT.

4. RIGHT OF ENTRY:

CONTRACTOR MAY NEED TO OBTAIN A TEMPORARY RIGHT OF ENTRY OR CONSTRUCTION EASEMENT FROM ADJACENT PROPERTY IN ORDER TO INSTALL BOAT RAMP AT LOT LINE.

5. STORM WATER POLLUTION PREVENTION:

CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT SILT AND DEBRIS FROM CONSTRUCTION OPERATIONS DOES NOT FLOW ONTO THE ADJACENT PRIVATE PROPERTY NOR ENTER INTO ADJACENT DRAINAGE AND IRRIGATION DITCHES AND CANALS AS SHOWN IN THE STORM WATER MEASURES AND DETAILS. THE PROJECT SITE IS LESS THAN ONE (1) ACRE AND IS NOT PART OF LARGER COMMON PLAN OF DEVELOPMENT THEREFORE A NOTICE OF INTENT (NOI) PERMIT IS NOT REQUIRE.

6. SAFETY:

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SAFETY OF HIS EMPLOYEES AND THE PUBLIC DURING ALL PHASES OF THE CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL

TRENCHING OPERATIONS SHALL COMPLY WITH WORKER SAFETY REQUIREMENTS FOR EXCAVATION AND TRENCHING OPERATIONS. WORKER SAFETY IN EXCAVATIONS AND TRENCHES SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS 29 CFR PART 1926 SUBPART P-EXCAVATIONS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND NOT THE TEXAS FACILITY COMMISSION OR CONSULTING ENGINEER, TO DETERMINE AND MONITOR SPECIFIC APPLICABILITY OF THE SAFETY SYSTEM TO THE FIELD CONDITIONS. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE TEXAS FACILITY COMMISSION AND CONSULTING ENGINEER FROM ANY AND ALL DAMAGES AND COSTS THAT MAY RESULT FROM FAILURE OF METHODS OR EQUIPMENT USED BY THE CONTRACTOR TO PROVIDE FOR WORKER SAFETY.

DURING CONSTRUCTION, CONTRACTOR SHALL MAINTAIN A SAFE DISTANCE AWAY FROM EXISTING LINES TO KEEP THE EXISTING LINES FROM COLLAPSING.

7. EARTHWORK:

AREAS THAT RECEIVE FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95% OF THE STANDARD PROCTOR DENSITY PER ASTM D-698 AND A MOISTURE CONTENT WITHIN +3% TO -1% OF OPTIMUM. FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8" OF UNDISTURBED SOIL FREE OF DEBRIS AND ORGANIC MATERIALS. TEST REPORTS FOR COMPACTED FILL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL

CONTRACTOR TO REMOVE ALL EXCESS SPOIL, STRIPPED MATERIAL AND DEBRIS WITHIN LIMITS OF PROPOSED CONSTRUCTION OR AS SHOWN ON PLANS. DISPOSAL SHALL BE CONTRACTOR'S RESPONSIBILITY.

ALL TESTING SHALL BE PROVIDED BY THE OWNER.

8. PIPE FOR NEW WATERLINES:

PIPE FOR NEW WATERLINES SHALL CONSIST OF PVC PIPE WITH A DIMENSION RATIO (DR) OF 18 AND SHALL MEET THE REQUIREMENTS OF AWWA C900 AND THE STANDARD DETAILS AND SPECIFICATIONS.

ALL LINES TO BE INSTALLED SO AS TO NOT EXCEED THE MANUFACTURER'S MAXIMUM RECOMMENDED DEFLECTION PER JOINT. THE CONTRACTOR IS RESPONSIBLE FOR CALCULATION OF THE MINIMUM DEFLECTION DISTANCES REQUIRED FOR UTILITY CLEARANCES.

CONTRACTOR TO INSURE A "DRY DITCH" CONDITION PRIOR TO THE PLACEMENT OF WATERLINES.

CONTRACTOR TO MAINTAIN ADEQUATE PIPE, MISCELLANEOUS FITTINGS. SUPPLIES, AND PUMPS ON THE PROJECT TO INSURE WATER LINE BREAKS WILL BE REPAIRED RAPIDLY. CONTRACTOR SHALL OPERATE NO VALVES WITHOUT CONSENT OF THE LAGUNA MADRE WATER DISTRICT.

9. COORDINATION:

ALL PUBLIC UTILITIES WORK SHALL BE COORDINATED WITH THE LAGUNA MADRE WATER DISTRICT'S INSPECTOR AND ENGINEER AND SHALL BE PERFORMED IN ACCORDANCE WITH THEIR REQUIREMENTS.

10. REPAIR OF DAMAGED FACILITIES:

CONTRACTOR SHALL REPAIR OR REPLACE, AT CONTRACTOR'S EXPENSE, ANY AND ALL EXISTING UTILITIES, DRAINAGE FACILITIES, ELECTRICAL DUCT BANKS OR CABLES, PAVEMENTS, SIDEWALKS, CURBS, PIPELINES, SIGNS, LIGHTS, FENCES, GATES, PROPERTY PINS OR OTHER ITEMS DAMAGED OR DISTURBED BY CONTRACTOR'S OPERATIONS.

ANY DAMAGE TO EXISTING PAVEMENT, DRAINAGE, UTILITIES, OR EXISTING STRUCTURES SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITION AT THE CONTRACTOR'S EXPENSE.

11. PERMITS:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO COMPLETE THE PROPOSED CONSTRUCTION

A PERMIT IS REQUIRED FOR ANY PUBLIC UTILITY CONSTRUCTION DONE IN A PUBLIC RIGHT OF WAY OR PUBLIC EASEMENT (WATER CONNECTION). CONTACT LAGUNA MADRE WATER DISTRICT FOR WATER SERVICES CONNECTION AND TESTING REQUIRED.

12. MATERIALS AND WORKMANSHIP:

ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH PROJECT STANDARD SPECIFICATIONS. ANY DEVIATION OF THESE PLANS AND SPECIFICATIONS FROM SUCH STANDARDS AND PRACTICES THAT WILL AFFECT THE PROJECT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AS SOON AS POSSIBLE FOR REVIEW AND ACTION.

13. ENGINEER'S RESPONSIBILITY DURING CONSTRUCTION:

THE ENGINEER OR ENGINEER'S REPRESENTATIVE SHALL BE AT THE SITE SOLELY FOR THE PURPOSE OF PROVIDING GENERAL OBSERVATION OF THE CONTRACTOR'S COMPLIANCE WITH THE DESIGN, PROGRESS REVIEW AND DESIGN PROBLEM RESOLUTION. THE ENGINEER SHALL NOT SUPERVISE THE CONSTRUCTION OR BE RESPONSIBLE FOR SAFETY PRECAUTIONS OR COMPLIANCE.

14. CONCRETE NOTES:

ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI-318 BUILDING CODE. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED. ALL REINFORCING STEEL MATERIAL TO BE A615-GRADE 60 (EPOXY COATED). ALL REINFORCING STEEL PLACEMENT AND SPLICING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI-318 BUILDING CODE. ALL BARS ARE TO BE SUPPORTED IN THE FORMS AND SLAB WITH CHAIRS AND TIED AT EVERY OTHER INTERSECTION. ALL CONDUIT, GROUND WIRES, DRAINS, ETC., ARE TO BE IN PLACE PRIOR TO POURING CONCRETE. ALL REINFORCING STEEL SHALL HAVE 3" MIN. CLEAR COVER UNLESS NOTED OTHERWISE.

15. PIPE FOR WASTEWATER LINES:

PIPE AND FITTINGS FOR NEW WATER SERVICE LINES SHALL MEET THE REQUIREMENTS OF LAGUNA MADRE WATER DISTRICT, STANDARD DETAILS AND SPECIFICATIONS

ALL WATER LINES UNDER PROPOSED PAVEMENT, TO BE BACKFILLED ACCORDING TO DETAIL SHEETS.

16. TRAFFIC CONTROL:

IF TRAFFIC CHANNELIZATION AND BARRICADES ARE REQUIRED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

CONTRACTOR SHALL PROVIDE PROTECTIVE DEVICES SUCH AS SIGNS, LIGHTS, AND SIGNALS FOR THE SAFETY OF THE PUBLIC AND WORKERS, AS

CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND SAFETY OF THE WORK, WORKERS, SUBCONTRACTORS, MATERIALS AND EQUIPMENT

TEMPORARY TRAFFIC CONTROL PLANS AND TRAFFIC CONTROL DEVICES SHALL CONFORM WITH THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), LATEST EDITION (EDITION 2011, REVISION 2, OCTOBER 2014, AS OF THE DATE OF THESE PLANS).

THE CONTRACTOR SHALL SUBMIT THE TEMPORARY TRAFFIC CONTROL PLANS TO THE CITY'S PUBLIC WORKS DEPARTMENT (STREET OPERATIONS) FOR APPROVAL AT LEAST 14 WORKING DAYS PRIOR TO THE ANTICIPATED START

THE CONTRACTOR SHALL PROVIDE A 72 HOUR NOTICE TO THE CITY LIA ENGINEERING, AS WELL AS AFFECTED BUSINESSES AND RESIDENCES, PRIOR TO IMPLEMENTING THE TEMPORARY TRAFFIC CONTROL PLAN AND COMMENCING CONSTRUCTION ACTIVITIES.

17. TESTING:

FOR ALL NEW WATERLINES, CONTRACTOR SHALL PERFORM HYDROSTATIC TESTING AND BACTERIOLOGICAL (STERILIZATION) TESTING ON WATERLINES IN ACCORDANCE WITH THE SPECIFICATIONS. ALL WATER DISCHARGE MUST BE DECHLORINATED IN ACCORDANCE WITH TCEQ AND NPDES REGULATIONS.

18. BOAT RAMP EXCAVATION:

IN THE EVENT THE CONTRACTOR UTILIZES ANY PORTION OF THE PROPOSED WINGWALL/TOE WALL AS PART OF HIS COFFERDAM. HE SHALL BE RESPONSIBLE FOR THE STRUCTURAL ADEQUACY OF ALL CONSTRUCTION WHEN THE RAMP IS DEWATERED FOR CONSTRUCTION PURPOSES. HE SHALL BE RESPONSIBLE FOR PROVIDING A CERTIFIED SKETCH AND DESIGN, PREPARED BY AN ENGINEER LICENSED IN THE STATE OF TEXAS, DELINEATING ANY AND/OR ALL BRACING REQUIRED, AND SHALL BE RESPONSIBLE FOR INSTALLATION. MAINTENANCE AND REMOVAL OF THE COFFERDAM AS NECESSARY TO ADEQUATELY PROVIDE CONTINUOUS DEWATERING OF THE BOAT RAMP AREA DURING PLACEMENT OF THE SUB-BASE AND CONCRETE AND CURING OF THE CONCRETE.

EXCAVATION OF THE BOAT RAMP'S SUBGRADE MATERIAL SHALL BE PERFORMED TO THE REQUIRED DEPTH, AS SHOWN ON THE CONTRACT DRAWINGS. SLOPES SHALL BE MAINTAINED AS NECESSARY OR AS OTHERWISE DIRECTED OR APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING THE EXCAVATED SLOPES TO THE REQUIRED LIMITS UNTIL PLACEMENT OF THE #57 STONE BASE MATERIAL IS COMPLETED, PRIOR TO INITIATION OF EXCAVATION. THE CONTRACTOR SHALL SUBMIT TO THE OWNER OR OWNER'S REPRESENTATIVE FOR APPROVAL HIS PROPOSED METHOD OF EXCAVATION

19. GEOTECHNICAL ENGINEERING REPORT:

IN THE BACK OF THE OF THE CONTRACT DOCUMENTS. A COPY OF THE GEOTECHNICAL ENGINEERING REPORT CALLED "BOAT RAMP AND PARKING LOT PROJECT": CAN BE FOUND FOR REFERENCE PURPOSES.

PROJECT No C275-21184







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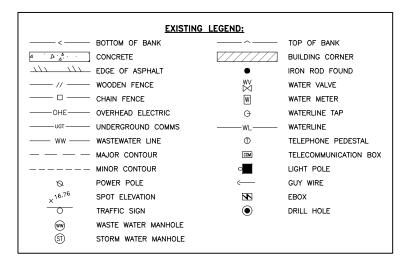
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C275-21184

JOB NO.

LEGEND

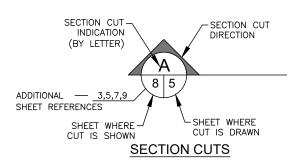


PROPOSED LEGEND: BULKHEAD LANDSCAPE PAVERS BOAT RAMP ADA RAMP PARKING LOT DECK CURB & GUTTER STRIPING -----2 WL ----- WATERLINE - PROPOSED CONTOUR — EXPANSION JOINT СЛ — — CONTROL JOINT EXISTING ELEVATION EX TOP OF CONCRETE TC TOP OF PAVERS ВК TOP OF BULKHEAD BOC BACK OF CURB LANDING PROPOSED LIGHT POLE

ABBREVIATIONS

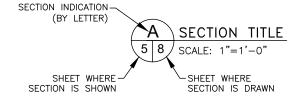
ASPHT - ASPHALT PAVEMENT R - RADIUS S - SLOPE C&G - CURB AND GUTTER CONC - CONCRETE R.O.W. - RIGHT OF WAY RCP - REINFORCED CONCRETE PIPE C TO C - CENTER TO CENTER ELEV - ELEVATION RIM - ELEVATION AT MANHOLE COVER EXIST - EXISTING RT - RIGHT G - GUTTER S.E.T. - SAFETY END TREATMENT LP - LIGHT POLE ST - STORM WATER LT - LEFT S/W - SIDEWALK MIN. - MINIMUM TC 00.00 - TOP OF CONCRETE ELEVATION MAX. - MAXIMUM TS - TRAFFIC SIGNAL NG - NATURAL GROUND TYP - TYPICAL O.C. - ON CENTER WT - WALKING TRAIL OCEW - ON CENTER EACH WAY WTR - WATER PVMT - PAVEMENT WW - WASTEWATER

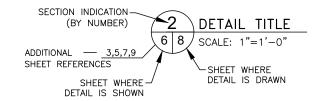
TYPICAL SECTION AND DETAIL SYMBOLS











TESTING SCHEDULE	*
DESCRIPTION	RATE
SOILS:	
STANDARD PROCTOR - TRENCH BACKFILL	PER MATERIAL SOURCE
STANDARD PROCTOR - SUBGRADE	PER STREET/MATERIAL
DENSITIES - SUBGRADE (CONCRETE PAVEMENT)	PER 200 LF/LANE/LIFT
DENSITIES - SUBGRADE (DRIVEWAYS)	PER 2 DRIVEWAYS
DENSITIES - SUBGRADE (SIDEWALKS)	PER 5,000 SF
DENSITIES — BEHIND CURB AND GUTTER	PER 200 LF
FLEXIBLE BASE:	
SIEVE ANALYSIS	PER 3,000 CY
ATTERBURG LIMITS	PER 3,000 CY
MODIFIED PROCTOR	PER 3,000 CY
L.A. ABRASION	PER 3,000 CY
CBR (STANDARD)	PER MATERIAL SOURCE
WET BALL MILL TEST	PER MATERIAL SOURCE
TRIAXIAL TEST	PER MATERIAL SOURCE
DENSITIES OF COMPACTED BASE (CONCRETE STREET)	PER 200 LF/LANE/LIFT
DENSITIES OF COMPACTED BASE (C&G)	PER 200 LF C&G
CONCRETE:	
(UNCONFINED COMPRESSION, 7, 14, & 28 DAY)	
CURB & GUTTER / CURB	PER 500 LF C&G / CURB
SIDEWALK AND CURB RAMPS	PER 4,000 SF
RIPRAP, APRONS & S.E.T.s	PER 4,000 SF
RIGID CONCRETE PAVEMENT:	
COMPRESSION STRENGTH (7 & 28 DAY)	PER 2,500 SY OR DAY
FLEXURAL (BEAM) STRENGTH (7 & 28 DAY)	PER 2,500 SY OR DAY
AIR CONTENT	PER 2,500 SY OR DAY
SLUMP	PER 2,500 SY OR DAY
NOTE: THE ENINGEER MAY REQUIRE ADDITIONAL TESTING AS HI	E/SHE DEEMS NECESSARY.

- THE ABOVE TESTING RATES ARE ONLY ANTICIPATED GUIDELINES. THE ENGINEER RESERVES THE RIGHT TO CONDUCT ADDITIONAL TESTING AT THE ENGINEER'S DISCRETION. RE—TEST FOR FAILURES ARE NOT INCLUDED.

 2. MOISTURE CONTENTS TO BE INCLUDED WITH DENSITY TEST.

 3. IN THE EVENT OF FAILURES, ADDITIONAL TESTS WILL BE REQUIRED. IF EXCESSIVE RAIN OR DRY PERIOD OCCURS ON A PREVIOUSLY TESTED SECTION, THE CITY MAY ORDER RE—TESTS AS NEFORSARY.



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PROJECT

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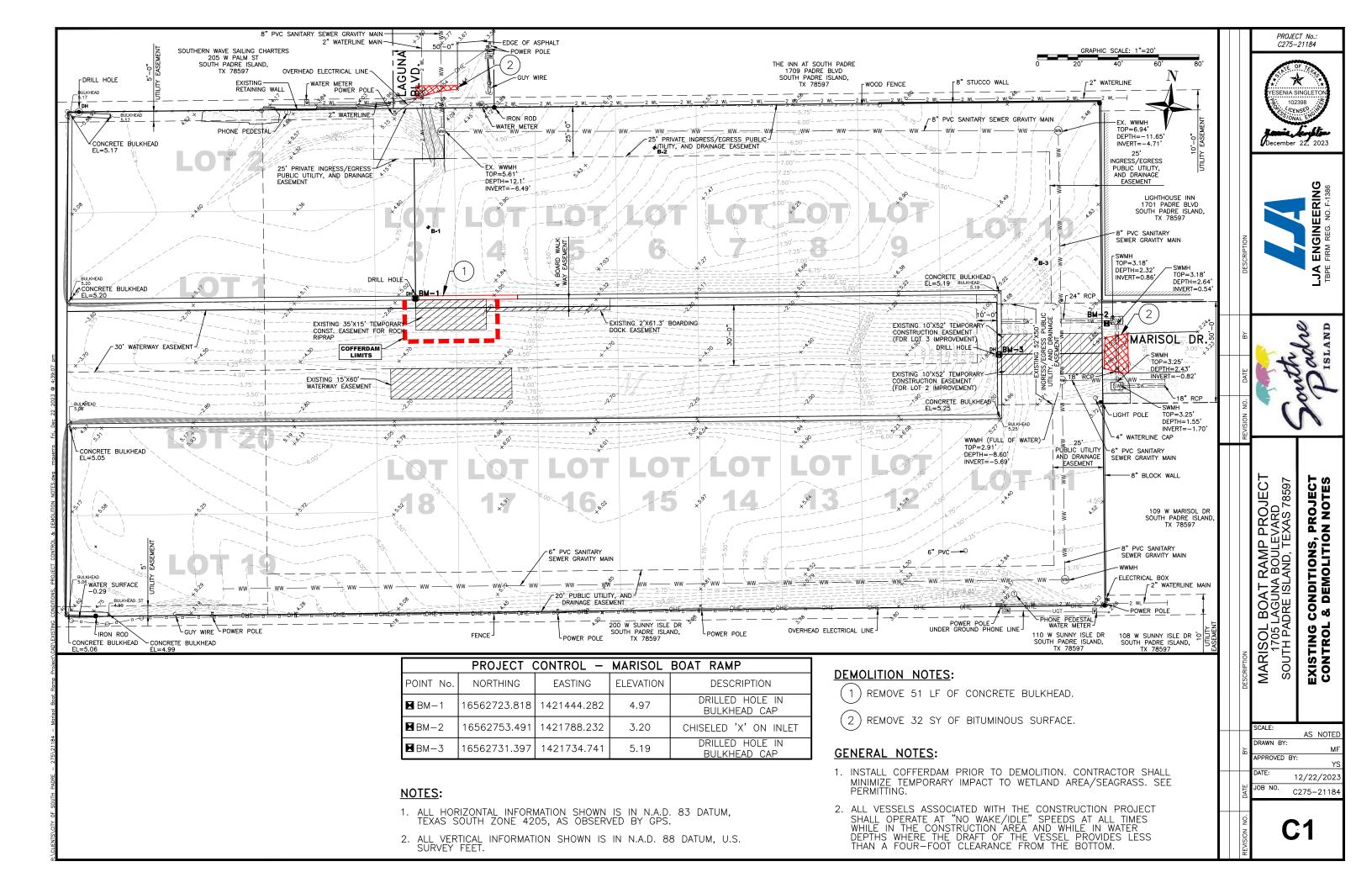
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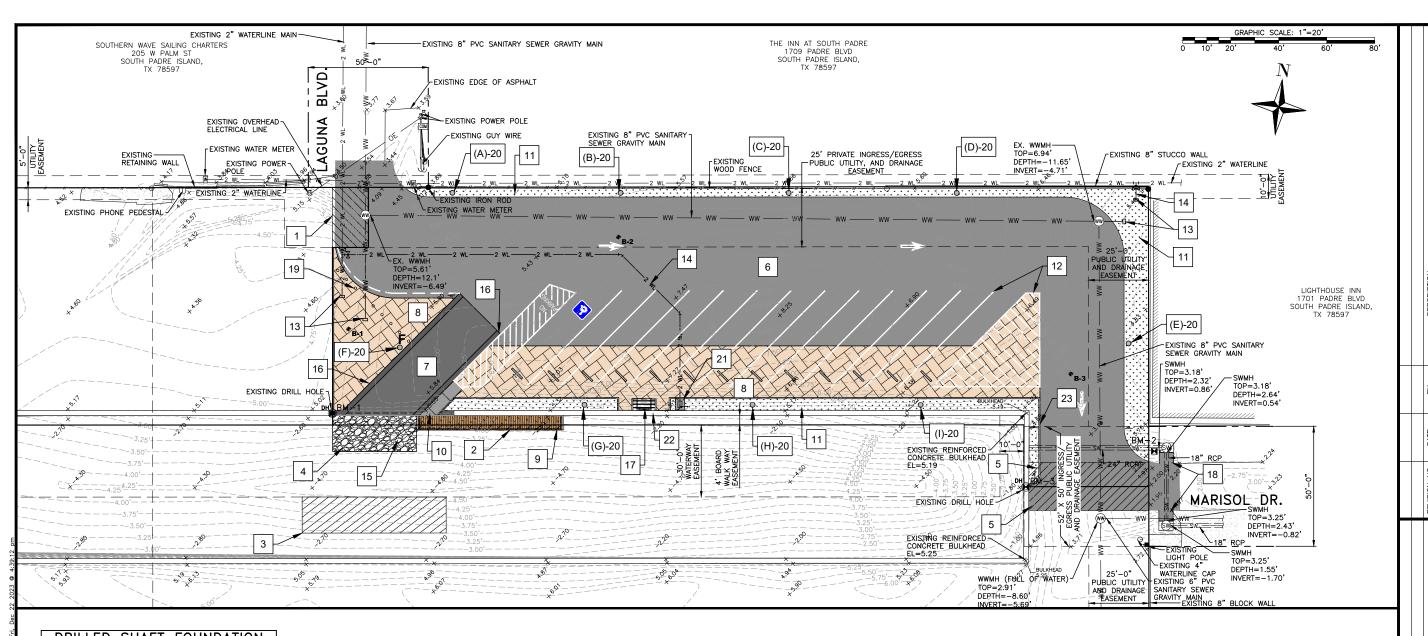
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> > C275-21184

JOB NO.

G2





DRILLED SHAFT FOUNDATION LOCATIONS							
LOCATION ID	NORTHING	EASTING					
А	16562821.44	1421481.77					
В	16562830.63	1421551.21					
С	16562839.81	1421620.63					
D	16562849.00	1421690.06					
E	16562796.25	1421769.29					
F	16562754.71	1421468.53					
G	16562741.13	1421547.90					
Н	16562750.32	1421617.34					
ı	16562759.50	1421686.76					

NOTES:

1. PROPOSED DRILLED SHAFT FOUNDATIONS (2. (A) INDICATES ID.

CONSTRUCTION NOTES:

- EXISTING 25' PRIVATE INGRESS/EGRESS PUBLIC UTILITY, AND DRAINAGE EASEMENT.
- 2 EXISTING 2'X61.3' BOARDING DOCK EASEMENT.
- 3 EXISTING 15'X60' WATERWAY EASEMENT.
- EXISTING 35'X15' TEMPORARY CONSTRUCTION EASEMENT FOR ROCK RIPRAP.
- 5 EXISTING 10'X52' TEMPORARY CONSTRUCTION EASEMENT.
- PROPOSED 2,036 SY OF 6" REINFORCED CONCRETE PARKING LOT (SEE SHEET C3, C10 & C11 FOR DETAILS)
- 7 PROPOSED 133 SY OF 6" REINFORCED CONCRETE BOAT RAMP (SEE SHEET C4, C10 & C11 FOR DETAILS).
- 8 PROPOSED 789 SF OF 4" PAVERS (SEE SHEET C9 FOR DETAILS).
- 9 PROPOSED 360 SF (6' X 60') OF WOODEN ATTENDANT DOCK (SEE SHEET C19 FOR DETAILS).
- PROPOSED 95 SF OF 4" REINFORCED CONCRETE ADA RAMP (SEE SHEET C7 FOR DETAILS).
- 11 PROPOSED 393 SY OF SOD.
- PROPOSED 1,425 LF. OF PARKING LOT STRIPING (SEE SHEET C6-C8 FOR DETAILS).

- PROPOSED UTILITIES STUB-OUTS (SEE SHEET C12-C13 FOR DETAILS)
- PROPOSED 254 LF OF 2" (SCH 80) WATER LINE (SEE SHEET C14-C16 FOR DETAILS)
- PROPOSED 36 CY OF ROCK RIPRAP
 SEE SHEET C4 & C10 FOR DETAILS)
- PROPOSED 132 LF OF REINFORCED CONCRETE BULKHEAD (SEE SHEET C11 FOR DETAILS)
- PROPOSED FISH CLEANING STATION (SEE SHEET C17-C18 FOR DETAILS)
- PROPOSED REINFORCED CONCRETE RIPRAP (SEE SHEET C11 FOR DETAILS)
- 19 PROPOSED BOLLARDS (SEE SHEET C11 FOR DETAILS)
- PROPOSED DRILLED SHAFT FOUNDATIONS (A-I) FOR LIGHT POLES (SEE SHEET C9 FOR DETAILS)
- PROPOSED BACKFLOW PREVENTER (SEE SHEET C14-C16 FOR DETAILS)
- PROPOSED 1" (SCH 80) WATERLINE, HOSE BIB, AND RELATED APPURTENANCES (SEE SHEET C14-C16 FOR DETAILS)
- PROPOSED 38 LF OF 6" HEADER CURB (SEE SHEET C10 FOR DETAILS)

MARISOL BOAT RAMP PROJECT 1705 LAGUNA BOULEVARD SOUTH PADRE ISLAND, TEXAS 785

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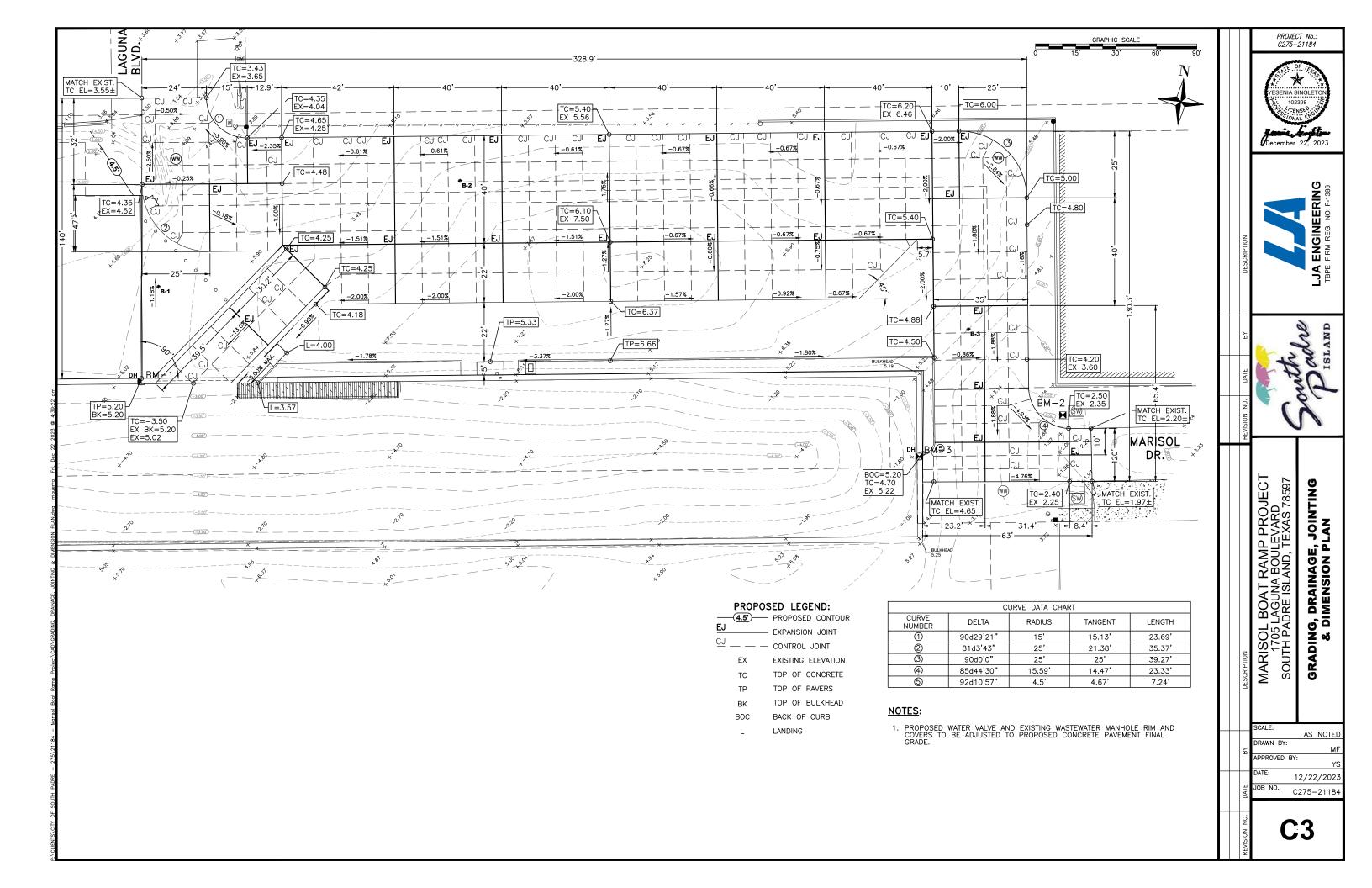
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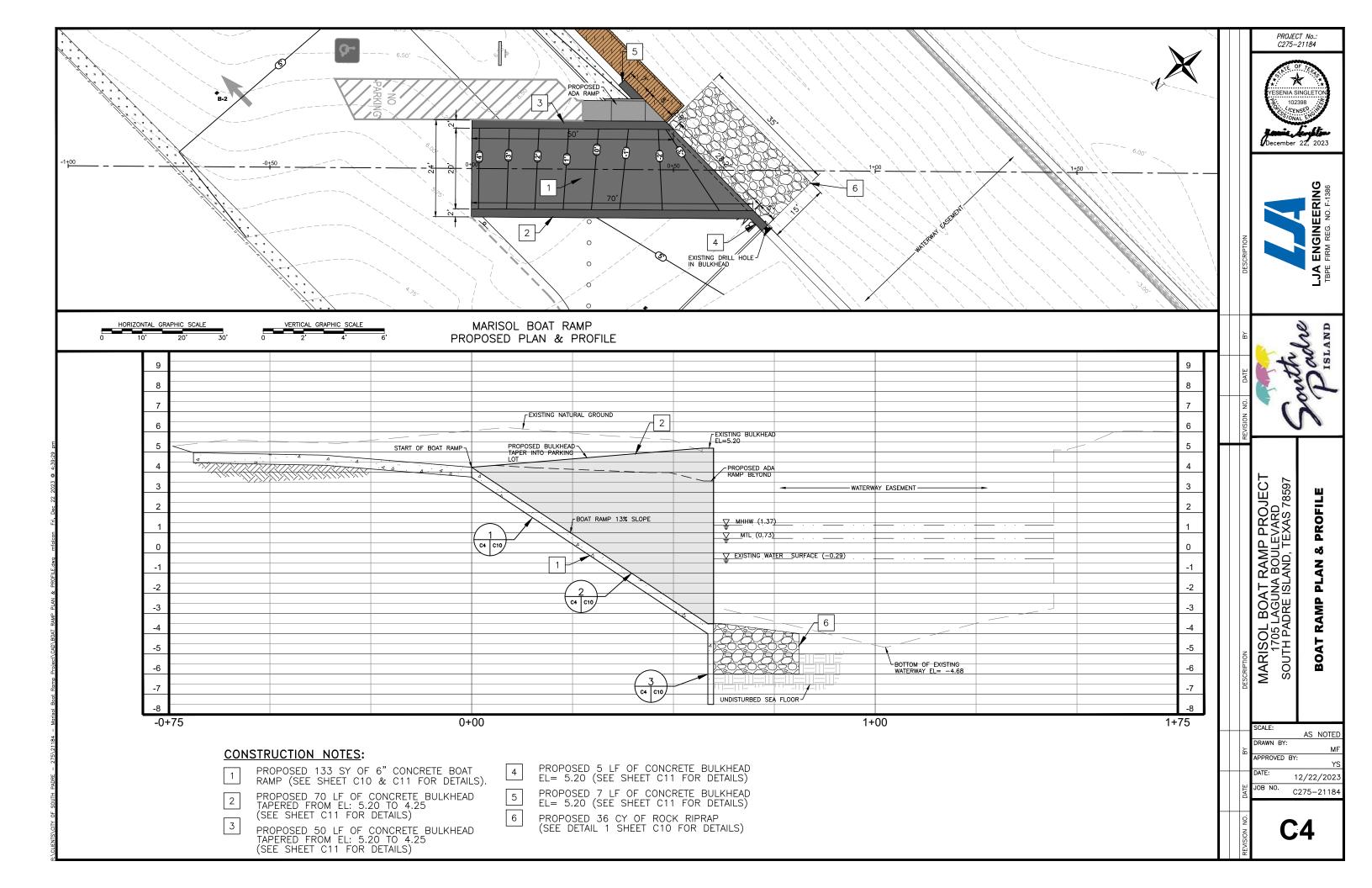
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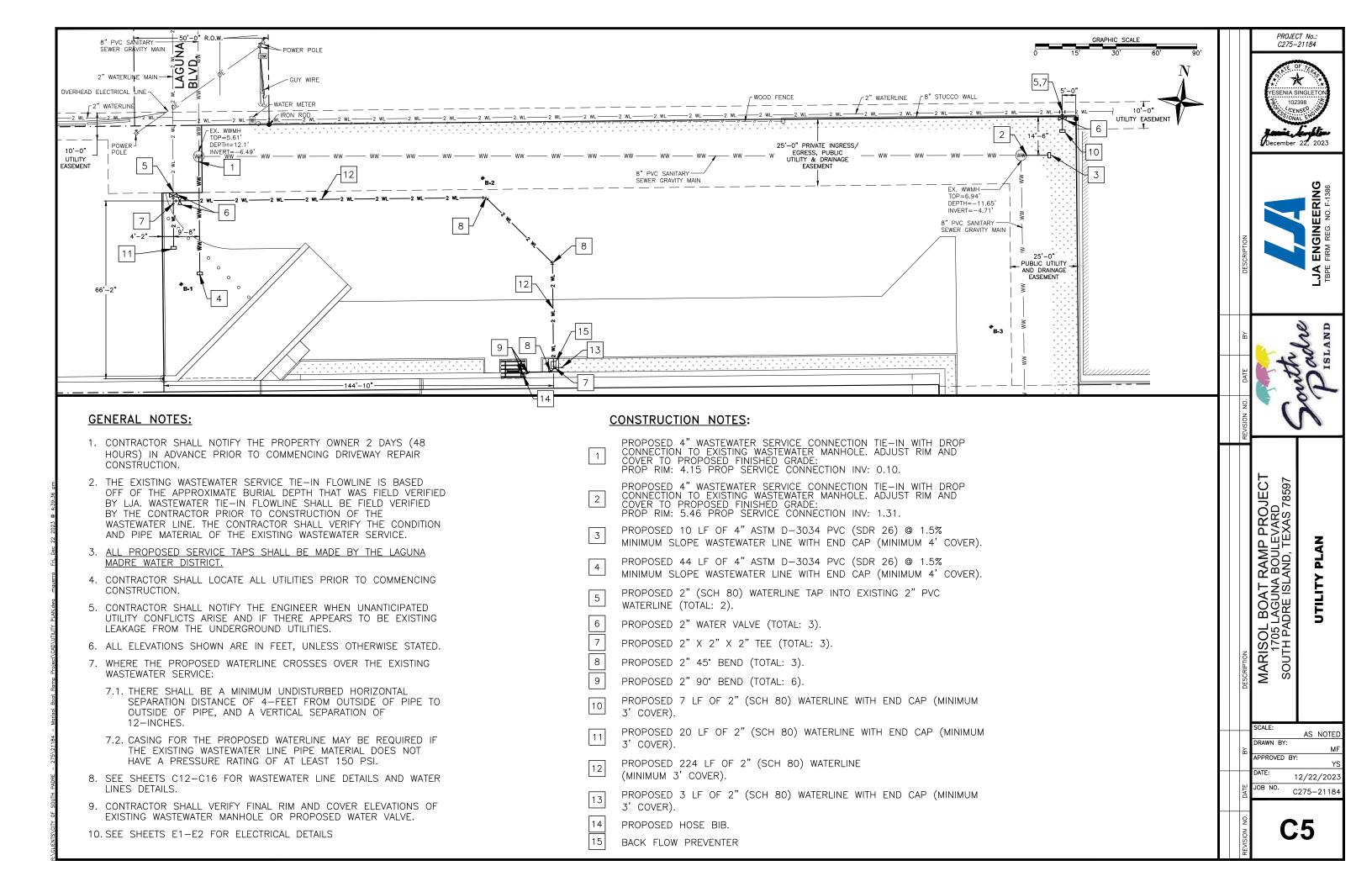
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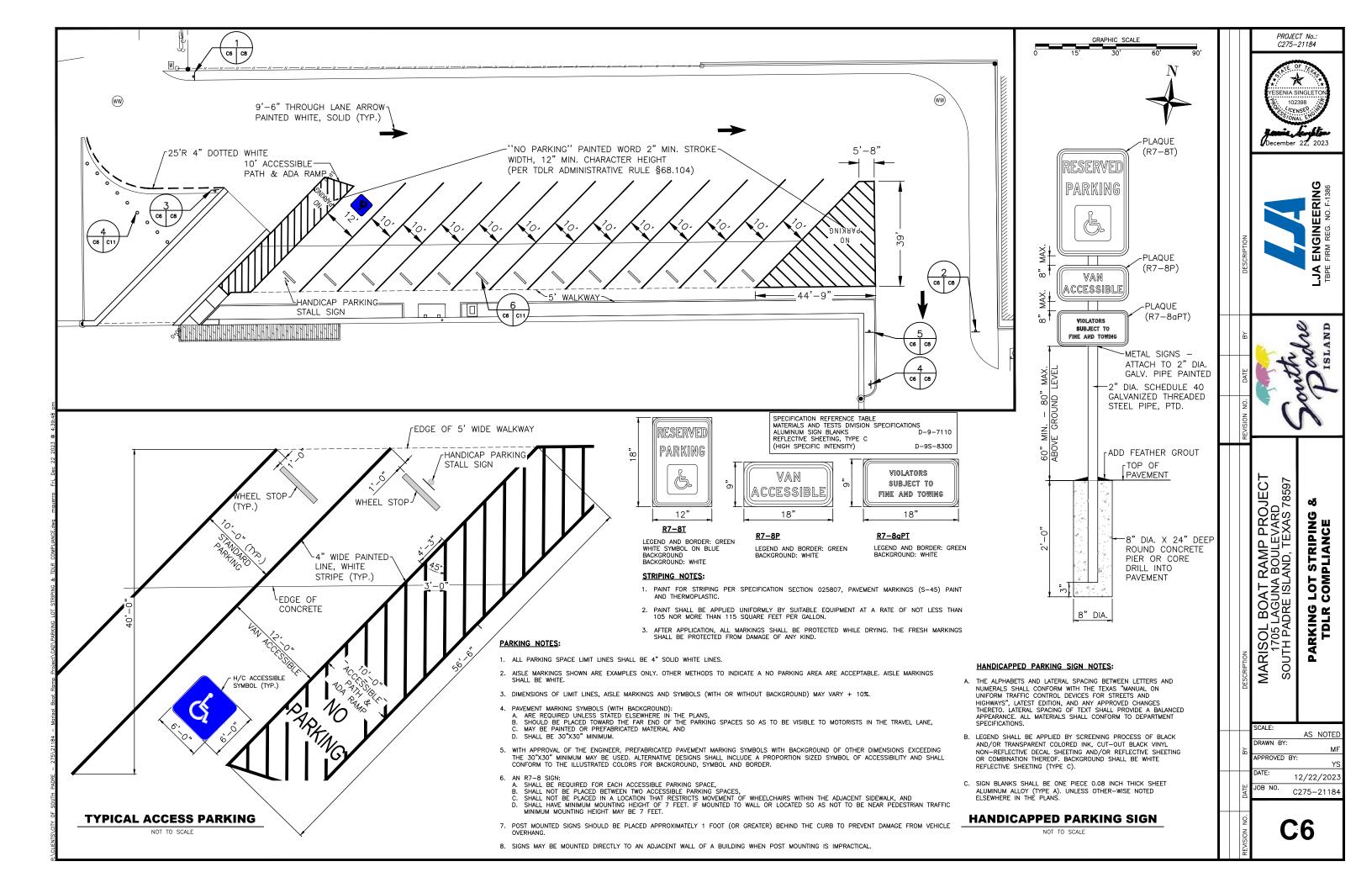
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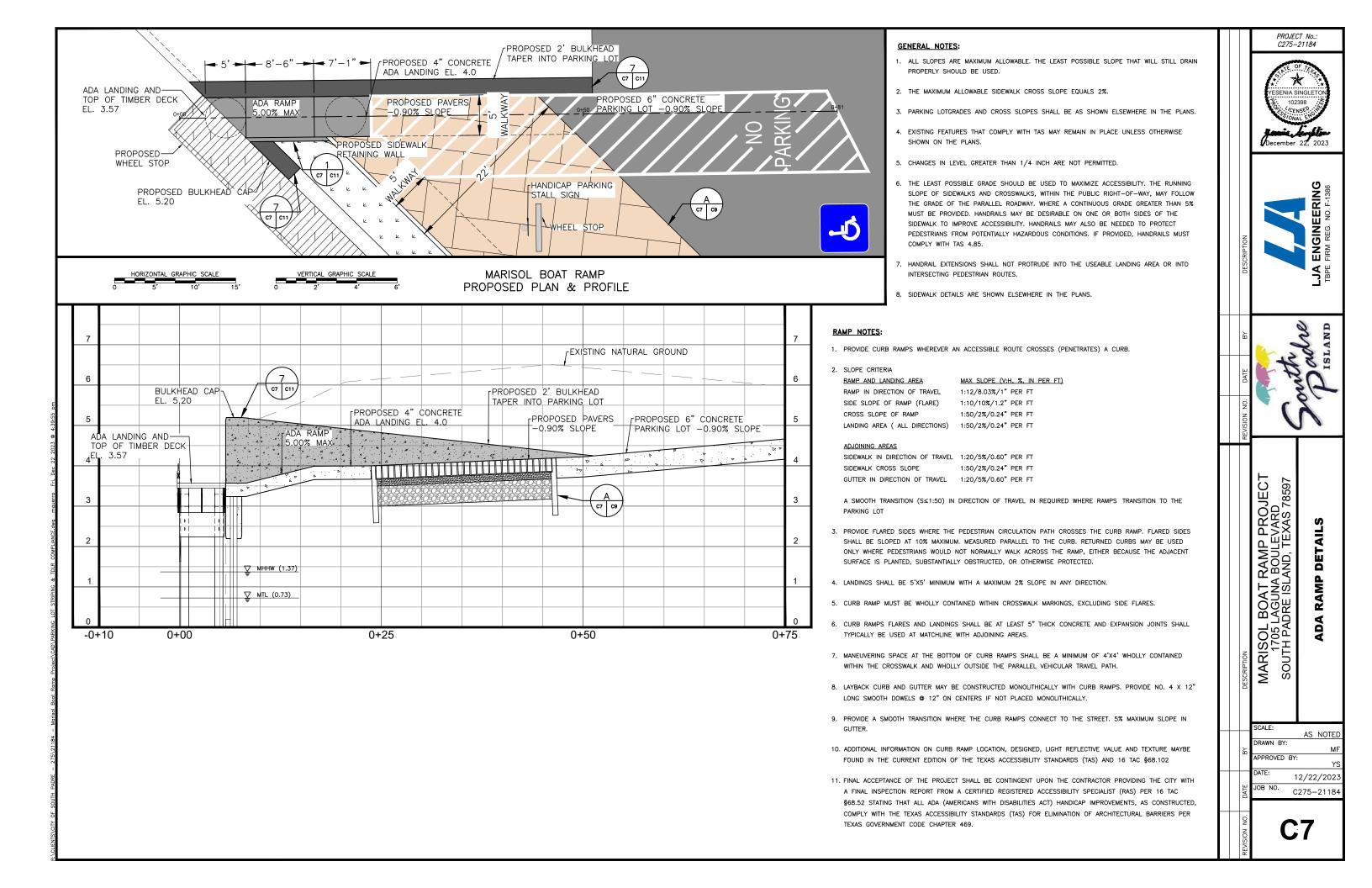
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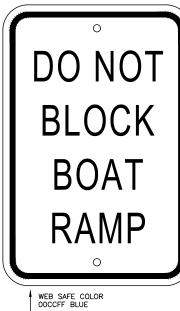




BOLTS USED TO MOUNT SIGN PANELS TO THE CLAMP ARE 5/16-18 UNC GALVANIZED SQUARE HEAD WITH NUT, NYLON WASHER, FLAT WASHER AND LOCK WASHER. THE BOLT LENGTH IS 1 INCH FOR ALUMINUM.













PROJECT No.:

C275-21184

C6 C8

ENTRANCE ONLY SIGN

EXIT ONLY SIGN



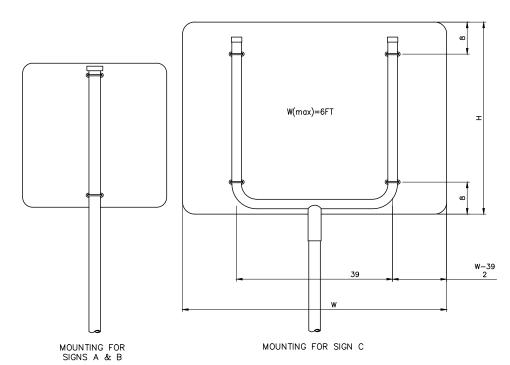
BOAT RAMP SIGN NOT TO SCALE



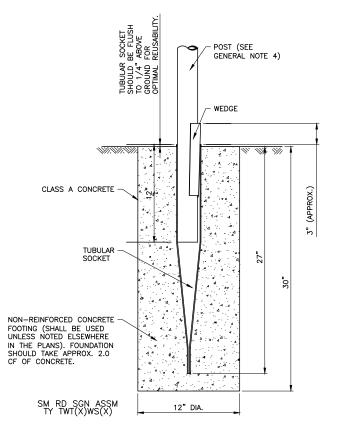
NO RIGHT TURN (R3-1)



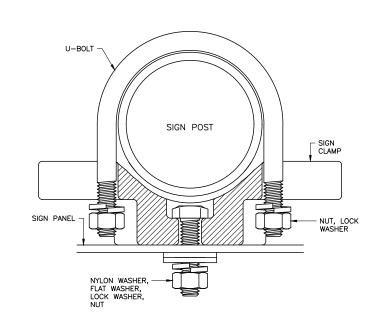
DO NOT ENTER (R5-1)



SIGN MOUTING DETAIL Α NOT TO SCALE







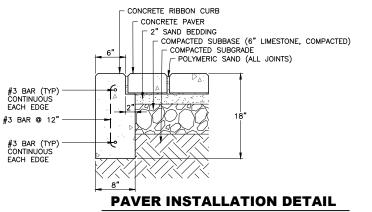


MP PROJECT ULEVARD), TEXAS 78597 IGNAGE DETAILS MARISOL BOAT 1705 LAGUN SOUTH PADRE IS SCALE: DRAWN BY:

AS NOTE 12/22/2023 JOB NO. C275-21184

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GENERAL SPECIFICATIONS INSTALLATION

- EXCAVATE UNSUITABLE, UNSTABLE OR UNCONSOLIDATED SUBGRADE MATERIAL AND COMPACT THE AREA WHICH HAS BEEN CLEARED. THEN BACKFILL AND LEVEL WITH DENSE GRADED AGGREGATE SUITABLE FOR SUBBASE MATERIAL (6" OF COMPACTED LIMESTONE)
- 2. PLACE BEDDING COURSE OF WASHED CONCRETE SAND CONFORMING TO THE GRADING REQUIREMENTS OF ASTM C33 TO A UNIFORM DEPTH OF 2" (50MM) SCREEDED TO THE GRADE AND PROFILE REQUIRED.
- INSTALL PAVERS WITH JOINTS APPROXIMATELY 1/8" (3MM). (PAVERS WITH SPACER RIBS AUTOMATICALLY PROVIDE MINIMUM JOINT WIDTH.)
- 4. WHERE REQUIRED, CUT PAVERS WITH AN APPROVED CUTTER TO FIT ACCURATELY, NEATLY AND WITHOUT DAMAGED EDGES.
- 5. TAMP PAVERS WITH A PLATE COMPACTOR, UNFORMILY LEVEL, TRUE TO GRADE AND FREE OF
- 6. FILL JOINTS WITH POLYMERIC SAND BINDER (SANDLOCK OR APPROVED EQUAL.)

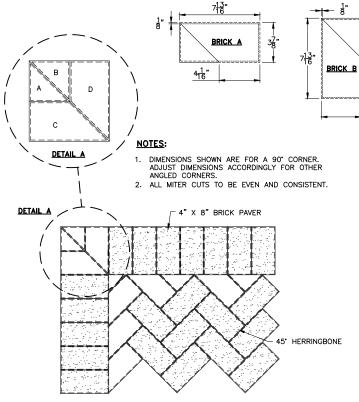
NOTES

- 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. DO NOT SCALE DRAWINGS
- 3. CONFIRM COLOR AND SIZE WITH OWNER PRIOR TO INSTALLATION
- CONTRACTOR TO PROVIDE $6^\prime x 6^\prime$ MOCKUP OF PAVING TO INCLUDE FIELD PATTERN, BORDER PATTERN AND COLORS.

SEWER CLEAN OUT

MITER PAVERS AT CLEAN OUT AS SHOWN

BRICK D



PAVING NOTES

BRICK C

- CONTRACTOR SHALL REVIEW AND COORDINATE WITH EXISTING CONDITIONS. LOCATE AND PROTECT ALL UNDERGROUND UTILITIES, DRAINS, ELECTRICAL, ETC.
- 2. CONTRACTOR TO FOLLOW CIVIL ENGINEER'S GRADING/DRAINAGE PLANS. ENSURE PROPER DRAINAGE AWAY FROM ALL BUILDINGS TO DRAIN INLETS PER GRADING/DRAINAGE PLANS.
- 3. CONTRACTOR SHALL STAKE OUT ALL PAVING AREAS FOR SSP APPROVAL PRIOR TO STARTING ANY PAVING WORK.
- 4. CONTRACTOR SHALL STRIP/REMOVE EXISTING UNSUITABLE SOIL/SOD/GRASS IN AL PAVER 5. CONTRACTOR SHALL SUPPLY/INSTALL SELECT FILL, SUB-BASE, MOISTURE CONDITION,
- AND COMPACT SUB GRADE TO 95% PROCTOR DENSITY (ASTM D698).
- CONTRACTOR SHALL SUPPLY/APPLY PRE-EMERGENT HERBICIDE TO SUB-BASE OF ALL PAVER AREAS. USE 'RONSTAR' PRE-EMERGENT HERBICIDE OR APPROVED EQUAL.
- 7. CONTRACTOR SHALL SUPPLY/INSTALL PAVERS AS INDICATED IN SCHEDULE
- 8. CONTRACTOR SHALL CUT/MITRE ALL RADII AND CORNERS USING MASONRY SAW AS DETAILED.
- SUBJECTABLES.

 9. CONTRACTOR SHALL FILL/SWEEP AL JOINTS WITH MIXTURE OF JOINT SAND AND 'SANDLOCK' JOINT STABILIZER.

 MI. 3-4 LBS. OF 'SANDLOCK' PER 100 LBS OF JOINT SAND. SWEEP ADDITIONAL 'SANDLOCK' ONTO FINAL SURFACE AND INTO AL JOINTS THEN SATURATE WITH WATER TO ACTIVATE STABILIZER.
- 10. CONTRACTOR SHALL NOTIFY SSP BEFORE INSTALLATION FOR INSPECTIONS/APPROVALS OF AL WORK.
- 11. CONTRACTOR SHALL WARRANTY ALL MATERIALS AND LABOR FOR A PERIOD OF TWO
- 12. INCLUDED RE-SANDING IF REQUIRED, HERBICIDE TREATMENT AND REPAIR OF ALL SUBGRADE FAILURES IF REQUIRED.

PAVER DETAIL - 90° MITER

NOT TO SCALE

PAVING MATERIAL SCHEDULE					
DESCRIPTION	NOTES	QUANTITY			
BRICK PAVERS	4"X8" MM KEYSTONE HOLLANDSTONE BRICK PAVERS BAND (LIGHT BROWN/TAN MIX)				
BRICK PAVERS BAND	4"X8" MM KEYSTONE HOLLANDSTONE BRICK PAVERS BAND (DARK BROWN)				

NOTE CONTRACTOR TO PROVIDE AVAILABLE PAVER COLORS FOR APPROVAL BY CITY BEFORE OFFERING MATERIAL



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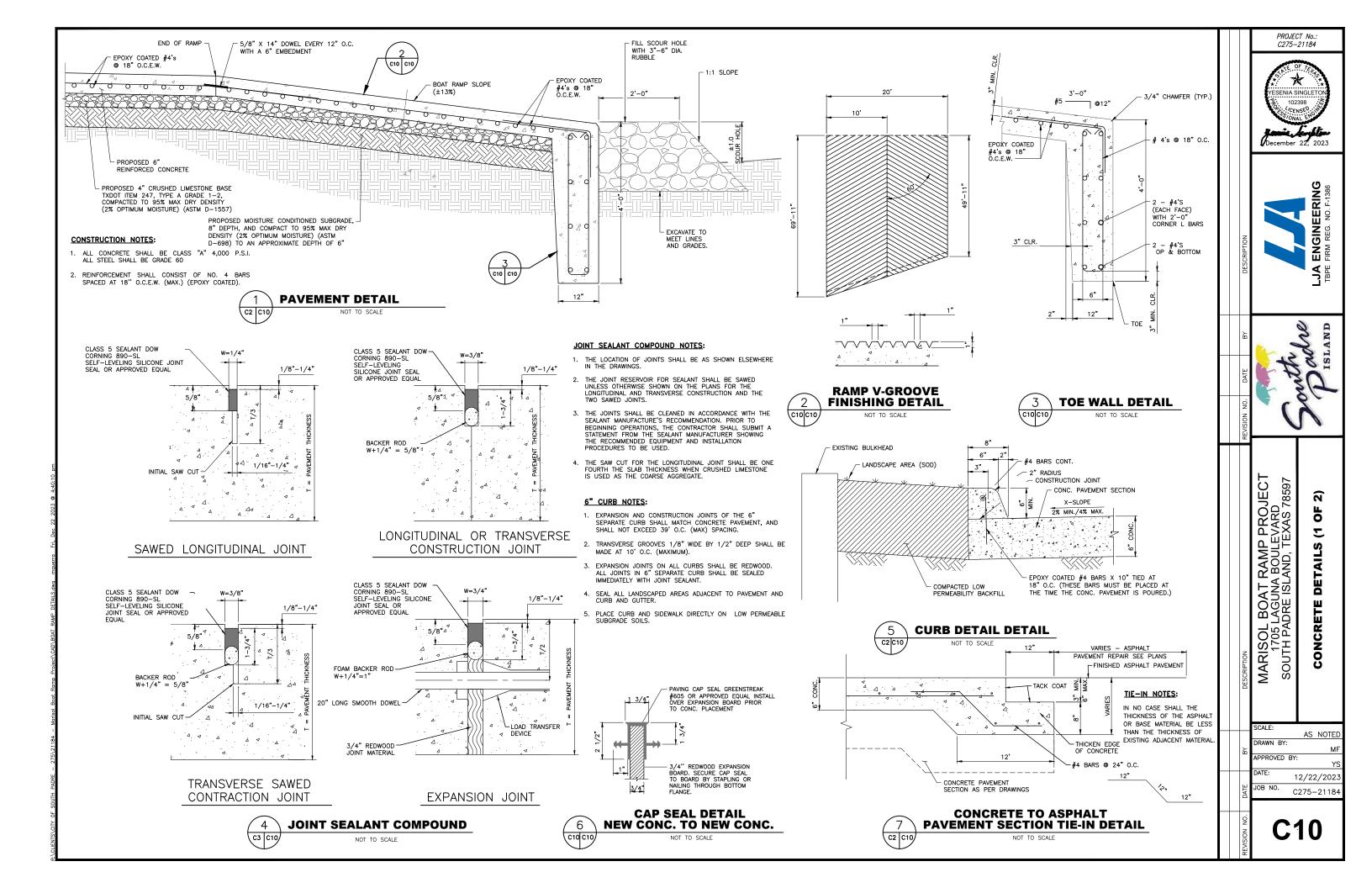


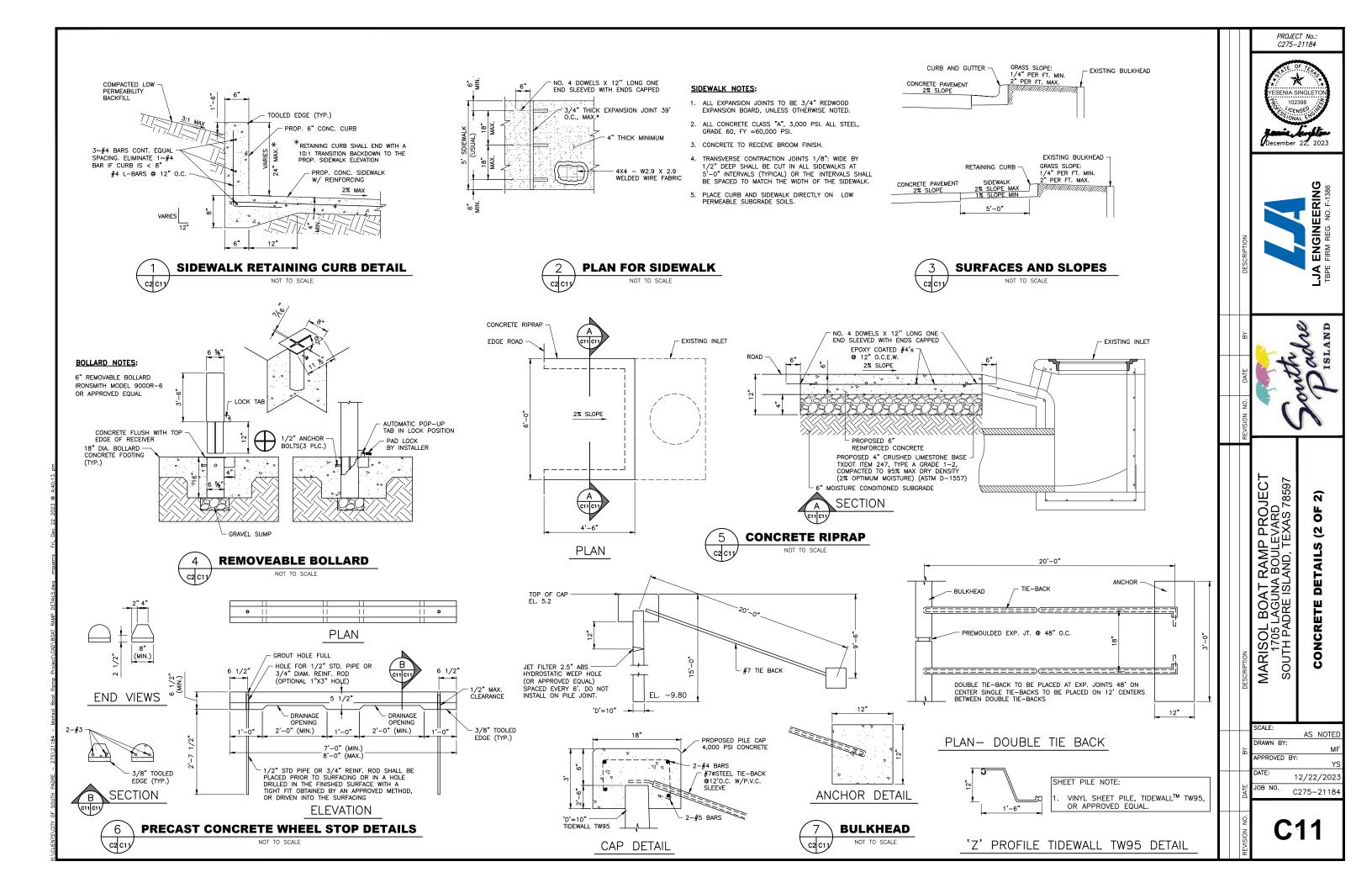
DETAIL: AVER

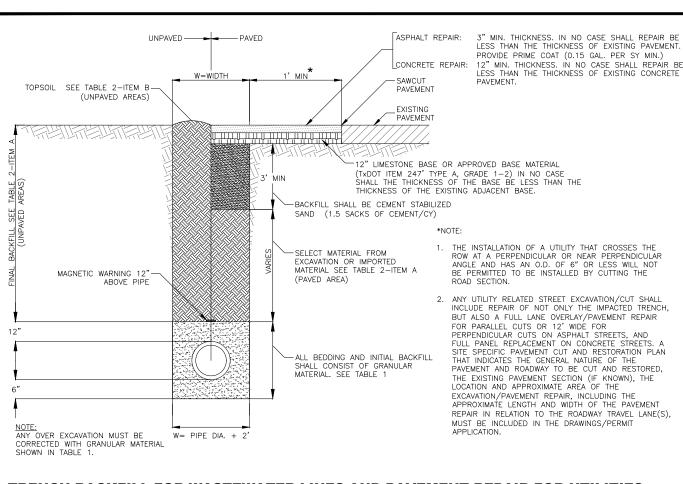
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SCALE: AS NOTE DRAWN BY: 12/22/2023 JOB NO. C275-21184







TRENCH BACKFILL FOR WASTEWATER LINES AND PAVEMENT REPAIR FOR UTILITIES

NOT TO SCALE

GENERAL NOTES FOR BACKFILL TABLE 2 FINAL BACKFILL

(GREATER THAN 12" ABOVE PIPE)

ALL BEDDING AND INITIAL BACKFILL SHALL CONSIST OF THE FOLLOWING OR REFER TO DESIGN ENGINEER REQUIREMENTS: GRANULAR BACKFILL CONSISTING OF EITHER NATURAL SAND OR SANDY GRAVEL, OR MATERIAL PRODUCED BY CRUSHING OF NATURAL STONE OR GRAVEL:

TABLE 1

BEDDING AND INITIAL BACKFILL

(BELOW PIPE TO 12" ABOVE PIPE)

1. EXCAVATIONS <20 FT. DEEP AND ABOVE WATER TABLE, USE MATERIAL MEETING THE FOLLOWING CRITERIA

MEETING REQUIREMENTS OF ASTM D2487 FOR:

GP GW SP-SM GP-GM SW-SM GW-GM

AND IN ADDITION: PASSING 1/2" SIEVE - 100% PASSING #4 SIEVE - 30% MINIMUM PLASTICITY INDEX (PI) - NP TO 10 MAX.

(2.) IN DEEP EXCAVATIONS (>20') OR BELOW WATER TABLE, USE CRUSHED STONE OR CRUSHED GRAVEL MEETING GRADATION OF:

> A. CONCRETE COARSE AGGREGATE; TxDOT ITEM 421; GRADE 2, 3, OR 4.

B. CRUSHED LIMESTONE PER TxDOT ITEM 421'

A. FROM 12" ABOVE PIPE TO BOTTOM OF TOPSOIL BACKFILL SHALL BE APPROVED SELECT MATERIAL FROM THE EXCAVAT- ION; OR IMPORTED MATERIAL; ALL TO BE FREE OF ROCKS, DEBRIS, OR ANY CLUMPS GR- EATER THAN 2" IN DIAMETER; LOOSE LIFTS TO BE PLACED 10" MAX

UNPAVED AREAS

COMPACT MATERIAL TO 95% STD. PROCTOR (D698).

MOISTURE TO BE ADJUSTED TO ± 3% OF OPTIMUM.

TOPSOIL TO BE PROVIDED EQUAL OR BETTER THAN EXISTING; AND MATCH EXISTING TOPSOIL DEPTH COMPACT TO EXISTING ADJACENT TOP-SOIL THICKNESS. (CONSTRUCTION TO BE PERFORMED "DOUBLE DITCH" METHOD-TOP SOIL SALVAGED TO BE PLACED ON

FROM 12" ABOVE PIPE TO 3' BELOW BOTTOM OF ROAD BASE: BACKFILL SHALL BE SELECT MATERIAL FROM EXCAVATION OR IMPORTED MATERIAL. IN EITHER CASE, ALL MATERIAL SHALL MEET THE FOLLOWING

11<35 PI 8-20 NO CLUMPS > 2" DIA.
MOISTURE - 1 TO +3%
COMPACT 95% D698 STD PROCTOR

LOOSE LIFTS OF 12" MAX OR IF SELECT MATERIAL FROM EXCAVATION DOES NOT MEET REQUIREMENTS, THEN USE CEMENT SEE TABLE 2-ITEM B BELOW.

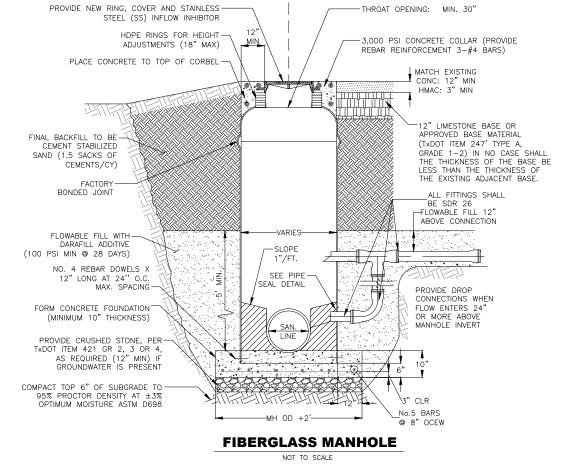
FROM 3' BELOW BOTTOM OF ROAD BASE TO BOTTOM OF ROAD BASE:

BACKFILL SHALL BE CEMENT STABILIZED SAND (1.5 SK/C.Y.) AND SHALL MEET THE FOLLOWING REQUIREMENTS:

SAND GRADATION: % PASSING

55-100 #10 40-100 25-100 #40 #200 10-20

COMPACT TO 95% OF D588. MOISTURE TO BE ADJUSTED TO TO (+/-2%) OF OPTIMUM.



UNPAVED PAVED

MANHOLE BOTTOM SHALL BE-"U" SHAPED WITH CONCRETE GROUT; SLOPED 1"/FT TO PROTECT DEPOSITION TO TOP OF LARGEST DIAMETER PIPE - PIPE (TYP.) - MANHOLE CONCRETE PAD -D/2' RADIUS (TYP.) PLAN

MANHOLE WALL (FIBERGLASS: -PROVIDE RUBBER SLEEVE OR CONCRETE) SEAL OR WATER STOP GASKET -BELL OF PIPE PIPE 6" MIN. NOTES: INSTALL SEAL IN ACCORDANCE WITH MFGS. SPECS.
USE RUBBER SEAL ASSEMBLY APPROVED BY UTILITY DEPARTMENT. (TPSMHA OR PIPECONX OR

INSERT A TEF)

WASTEWATER MANHOLE (BOTTOM)

APPROVED COATINGS TABLE

 $\underline{\mathsf{NOTE}}$: Coat all concrete surfaces including bench & walls.

PIPE DIAMETER

<18"

18"< TO ≤36

36"< TO ≤42'

MANUFACTURER

JEFFCOAT

RAVEN LINING SYSTEM

SHERWIN WILLIAMS

CARBOLINE

JEFFCOAT 326

RAVEN 405

DURAPLATE 5800

PHENOLINE 309

PIPE SEAL DETAIL

MANHOLE REQUIREMENTS MANHOLE DIAMETER

THE CONTRACTOR SHALL ADHERE TO ALL TCEQ REGULATIONS PER 30 TAC CHAPTER 217 AND TRENCH SAFETY FOR EXCAVATIONS.
THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL AND MUST ADHERE TO THE

REQUIREMENTS, FIBERGLASS BOTTOM AND BENCH MUST ALSO BE FACTORY INSTALLED

ENERAL	WASTEWATER	CONSTRUCTION	NOTES:	

THE CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND EXAMINE LOCAL CONDITIONS TO BE
ENCOUNTERED, IMPROVEMENTS TO BE PROTECTED, AND PERMITS AND FEES TO BE REQUIRED,
ALONG WITH OTHER RESEARCH THAT IS NECESSARY TO ENSURE THAT THE CONTRACTOR
THOROUGHLY UNDERSTANDS THE PROJECT AND IS FULLY AWARE OF ALL THE CONDITIONS AND
CONSTRAINTS THAT MAY BE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION.
THE CONTRACTOR CHALL ARREST TO ALL TOPO REQUILITIONS RED TO TAG CHARTER OAT AND

MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

ALL FIBERGLASS MANHOLES SHALL BE MONOLITHIC WITH 0.50" MINIMUM WALL THICKNESS. IF PROVIDED OR REQUIRED, FIBERGLASS BOTTOM SHALL BE DESIGNED TO WITHSTAND HYDROSTATIC HEAD PRESSURE UNDER ALL CONDITIONS.

THE MANHOLE WALL PENETRATIONS FOR PIPE (8"-15" DIAMETER PIPE) ABOVE THE FLOWLINE OF THE MANHOLE SHALL BE CORED AND SEALED WITH APPROVED SEAL GASKET WATER STOP

FOR FIBERGLASS MANHOLES, THE MANHOLE FOUNDATION MAY BE PRECAST ON GROUND

SURFACE. (PROCEDURE MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL.)
THE CONTRACTOR SHALL PROVIDE PROTECTIVE COATING ON ALL EXPOSED CONCRETE SURFACES,
INCLUDING CORBEL AREA, MANHOLE WALLS AND MANHOLE BENCH.
FOR FIBERGLASS MANHOLES WITH WATERTIGHT BOTTOM, ADHERE TO ALL MANUFACTURER

PROJECT No.: C275-21184

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SECTION OF RING & COVER

NOT TO SCALE

-6" COVER

DETAIL

SCHEDULE 40 PIPING

PROVIDE CONCRETE

SIDE VIEW

SADDLE

DEEP CUT SERVICE CONNECTION

NOT TO SCALE

FRONT VIEW

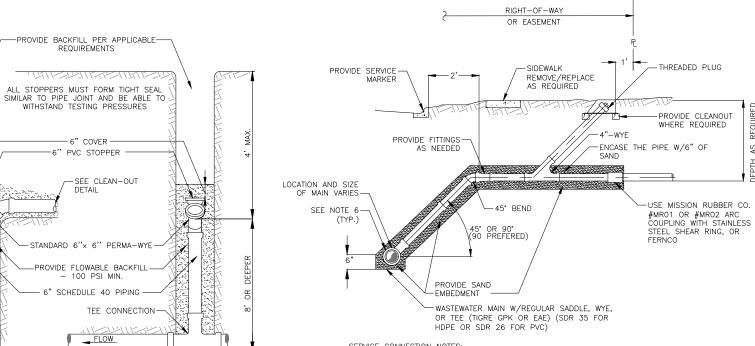
ROADWAY MANHOLE RING AND COVER

- THE CONTRACTOR SHALL PROVIDE STAINLESS STEEL (S.S.) INFLOW INHIBITOR WITH SS TETHER SECURED TO MANHOLE WALL, SUCH THAT THE INNER LID IS FLUSH WITH THE OUTER LID.
- FLUSH WITH THE OUTER LID.
 TRAFFIC SHALL BE RESTRICTED FROM MANHOLE FOR 48 HOURS AFTER THE
 PLACEMENT OF CONCRETE, AND COLLAR SHALL PROVIDE A SUFFICIENT, CLEAR
 OPENING TO ACCOMMODATE THE SPECIFIED MANHOLE COVER.
 ASHTO-M-306 (LATEST REVISION) PROOF LOAD TESTING IS REQUIRED
- (40,000 LBS) AND MUST BE INSPECTED. PRIOR TO INSTALLATION, THE
 RESULTS OF THE TEST SHALL BE SUBMITTED TO THE CITY.
 THE MANUFACTURING FACILITIES FOR ALL PROVIDED RING AND COVER
 ASSEMBLIES SHALL MEET OR EXCEED ALL EPA ENVIRONMENTAL STANDARDS
- AND OSHA SAFETY STANDARDS. THE CONTRACTOR SHALL PROVIDE

CLEAR OPENING	MANUFACTURER (1)	MODEL NUMBER*	INFLOW INHIBITOR
	EAST JORDAN IRON WORKS	V-1168	
24"	U.S. FOUNDRY	COVER- #8018538 FRAME- #8022247	0711111 500 07551
	NEENAH FOUNDRY	R-1930-24	STAINLESS STEEL
	EAST JORDAN IRON WORKS	COVER- V1430 FRAME- V1420	REQUIRED ON ALL INSTALLATIONS PER CITY
30" (2)	U.S. FOUNDRY	COVER- #9210048 FRAME- #8021361	SPECIFICATIONS
	NEENAH FOUNDRY	DF-1274	

- OR APPROVED EQUAL (MADE IN THE USA)
- UNLESS NOTED IN THE PLANS, ALL COVERS SHALL BE 24" DIAMETER AND NOT INTENDED FOR MANNED ENTRY.

RING & COVER APPROVED LIST

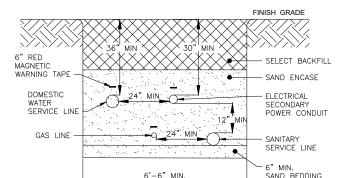


SERVICE CONNECTION NOTES:

- CONTRACTOR TO PROVIDE SERVICE CONNECTION TAP TO THE R.O.W. LINE & CONNECT EXIST. SERVICE LINE OUTSIDE EASEMENT AS SHOWN AND REQUIRED.
 ALL SERVICE PIPE AND FITTINGS TO BE SOLVENT WELD SCH 40 PVC UNLESS
- SHOWN OTHERWISE IN THE PLANS.
- 3. FOR EXISTING MAIN PIPE MATERIAL PVC AND/OR VCP USE PUBIC WORKS DEPARTMENT APPROVED CONNECTOR
- 4. FOR NEW PVC MAIN AND SERVICE, USE PVC WYE OR TEE AS DIRECTED AT SERVICE CONNECTION.
- 5. IF PIPE LENGTH, ON SERVICE LINE, IS GREATER THAN 50', USE 6" PVC SCH 40 FROM CLEANOUT WYE TO THE MAIN LINE.

SERVICE CONNECTION DETAILS

NOT TO SCALE



UTILITY TRENCH DETAIL

GENERAL NOTES FOR INSTALLATION OF

- 1. UNDERGROUND (BURIED) CONDUIT SHALL BE
- SCHEDULE 80 PVC.
 2. CONDUIT MINIMUM DEPTH SHALL BE 36 INCHES
- TRENCHES ARE TO BE IN AS STRAIGHT AND DIRECT A LINE AS POSSIBLE.
- 4. CAUTION RIBBON SHALL BE INSTALLED ABOVE THE CONDUIT, A FOOT BELOW FINISHED GRADE.
- A PULLING ROPE, 3/4 INCH DIAMETER POLYPROPYLENE, SHALL BE INSTALLED IN EACH CONDUIT.

 6. THE ENDS OF THE CONDUIT SHALL BE
- PLUGGED DURING CONSTRUCTION TO PREVENT THE ENTRANCE OF FOREIGN MATTER
- 7. CONDUIT SHALL TERMINATE NOT MORE THAN 6 INCHES INSIDE A HANDHOLE OR J-BOX. WHENEVER POSSIBLE THE CONDUIT SHALL RUN STRAIGHT INTO THE HANDHOLE WITHOUT SWEEPS OR BENDS.
- ALL ENDS, JOINTS AND INTERNAL FINISH OF THE CONDUIT SHALL BE FREE OF SHARP EDGES OR BURRS WHICH COULD DAMAGE
- ALL BURIED JOINTS SHALL BE GLUED WITH CEMENT AS RECOMMENDED BY THE CONDUIT MANUFACTURER.

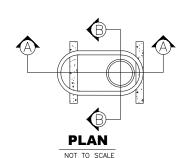
10. INSTALL A COPPER CONDUCTOR IN EACH CONDUIT TRENCH FOR FUTURE CONDUIT LOCATES.

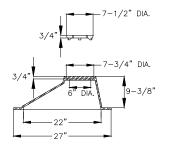
SAND BEDDING

- 11 PLACE 6" OF COMPACTED GRAVEL LINDER THE BOX. GRAVEL SHOULD NOT ENCROACH
 ON THE INTERIOR VOLUME OF BOX. GRAVEL BED SHOULD BE PLACE PRIOR TO SETTING BOX AND CONDUITS SHALL BE CAPPED. 12. STEEL COVER SHOULD BE MARKED WITH
- DESIGNATED UTILITY NAME SUCH AS ELECTRICAL, COMMUNICATION OR IRRIGATION.
- 13. STEEL COVER SHOULD BE FURNISH WITH LID GASKETS INHIBIT WATER FLOW INTO THE BOX TO PREVENT WATER INTRUSION.
- 14. MAINTAIN A MINIMUM OF 12" VERTICALLY OR 24" HORIZONTALLY BETWEEN ELECTRICAL PRIMARY AND WATER LINES, GAS LINES, TELEPHONE RACEWAYS AND CABLE RACEWAYS.

 15. SEWER LINES WHICH PARALLEL PRIMARY
- ELECTRICAL RACEWAYS SHALL HAVE A HORIZONTAL CLEARANCE OF NOT LESS THAN
- 16. JUNCTION BOX FOR POWER OUTLET NEAR THE LIGHT POLE SHALL BE OLDCASTLE
 SYNERTECH 1212, 18" DEEP WITH CLOSE
 BOTTOM, LID GASKET AND SEALER AROUND
 CONDUIT TO WEATHERPROOF.

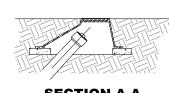
 17. AEP PRIMARY CONDUIT MINIMUM DEPTH
- SHALL BE 52 INCHES AND 48 INCHES FOR SECONDARY AEP CONDUIT.

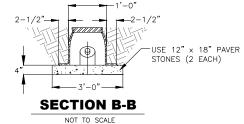




CLEAN-OUT BOOT

NOT TO SCALE





SECTION A-A

TYPICAL CAST IRON CLEAN-OUT BOOT

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2 **S S** A P YOA' Page I Ġ **WASTEWATER**

AS NOTE 12/22/202 OB NO. C275-2118

WATER DISTRIBUTION SYSTEM GENERAL NOTES

- PROPOSED WATER DISTRIBUTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF SOUTH PADRE ISLAND PUBLIC WORKS DISTRIBUTION SYSTEM STANDARDS.
- 2. THE CITY RESERVES THE RIGHT TO ACCEPT THE SYSTEM FOR OPERATION AT ANY TIME. BUT THE DATE OF OFFICIAL ACCEPTANCE OF THE SYSTEM WILL BE UPON COMPLETION OF THE PROJECT AND SATISFACTORY TEST
- THE EXISTING SYSTEM SHALL REMAIN IN SERVICE UNTIL THE PROPOSED SYSTEM IS PUT INTO SERVICE. THE 3. CONTRACTOR SHALL PROTECT THE EXISTING SYSTEM UNTIL IT IS TAKEN OUT OF SERVICE.
- THE CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT REQUIRED TO INSTALL THE PROPOSED
- TESTING OF LINES (STERILIZATION AND PRESSURED) SHALL BE DONE BY THE CONTRACTOR LINDER THE 5. SUPERVISION OF PUBIC WORKS DEPARTMENT. WATER FOR FILLING THE NEW WATER LINE AND PERFORMING TESTS WILL BE FURNISHED TO THE CONTRACTOR BY THE CITY OF SOUTH PADRE ISLAND THROUGH A STANDARD WATER CONSTRUCTION METER CONNECTION. STANDARD WATER CONSTRUCTION METER AND GAUGE WILL BE SUPPLIED BY THE CITY AFTER THE CONTRACTOR HAS PAID ALL APPLICABLE FEES FOR THE WATER CONSTRUCTION METER. ALL WATER DISCHARGE MUST BE DECHLORINATED IN ACCORDANCE WITH TCEQ & NPDES REGULATIONS.
- THE CONTRACTOR SHALL RECOVER AND STOCK-PILE AT A LOCATION DESIGNATED BY THE PUBLIC WORKS INSPECTOR. ALL FIRE HYDRANTS, VALVES, AND FITTINGS THAT ARE TAKEN OUT OF SERVICE . THESE MATERIALS MAY BE SALVAGED BY THE CITY . HOWEVER, ALL ITEMS NOT CLAIMED BY THE CITY PRIOR TO THE FINAL INSPECTION SHALL BE DISPOSED OF BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BEAR ALL COST ASSOCIATED WITH WATERLINE REPAIRS (WHICH RESULT FROM DAMAGE CAUSED BY THE CONTRACTOR) UPON COMPLETION OF PROJECTS. ALL WATER LINES SHALL BE FREE OF ALL
- ALL PHYSICAL TIES OF THE PROPOSED SYSTEM INTO THE EXISTING WATERLINE SHALL BE RECONNECTED AND BE MADE UNDER SUPERVISION OF THE PUBLIC WORKS INSPECTOR. THE CONTRACTOR SHALL FURNISH ALL MATERIALS AND ALL EQUIPMENT THAT IS REQUIRED TO MAKE TIE-INS. CITY PUBLIC WORKS CREWS WILL MAKE TAPS ON CITY MAINS ARRANGED THROUGH PUBLIC WORKS INSPECTOR (72 HOUR NOTIFICATION).
- ALL EXISTING SERVICE CONNECTIONS TIED ONTO THE EXISTING WATERLINE SHALL BE RECONNECTED BY THE CONTRACTOR, INCLUDING RELOCATING EXISTING WATER METERS. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO NOTIFY AND COORDINATE WITH THE PUBLIC WORKS INSPECTOR SAID RECONNECTIONS / RELOCATIONS IN ADVANCE OF CONSTRUCTION TO AVOID DELAYS. (NO SEPARATE COSTS)
- MINOR LENGTH OF DUCTILE IRON PIPE ADJACENT TO FITTINGS MAY BE REQUIRED AS DIRECTED BY THE PUBLIC WORKS INSPECTOR BASED ON CONDITIONS ENCOUNTERED IN THE FIELD. THE CONTRACTOR SHALL USE D.I.P. AS DIRECTED AND SHALL BE PAID AT THE UNIT PRICE BID FOR THE APPROPRIATE SIZE WATERLINE. A MINOR LENGTH IS DEFINED AS A SINGLE LOCATION REQUIRING THE USE OF TWO JOINTS OR LESS.
- MINOR ADJUSTMENTS IN THE LOCATIONS OF FITTINGS, VALVES, FIRE HYDRANTS, ETC. CAN BE ANTICIPATED. THE CONTRACTOR SHALL MAKE SAID MINOR ADJUSTMENTS AS DIRECTED BY THE ENGINEER AND/OR PUBLIC WORKS INSPECTOR AT NO INCREASE OF CONTRACT PRICE. PUBLIC WORKS WILL BE NOTIFIED PRIOR TO ALL CHANGES.
- ALL NIPPLES BETWEEN FITTINGS AND VALVES ALONG MAINS SHALL BE DUCTILE IRON.
- ALL DUCTILE IRON PIPES, VALVES, AND FITTINGS SHALL BE WRAPPED WITH (2) THICKNESSES OF 8 MIL. 13. POLYETHYLENE AND SHALL BE RESTRAINED WITH "MEGALUG", MECHANICAL JOINT RESTRAINT OR ENGINEER APPROVED FOUAL AT ALL FITTINGS. CONCRETE THRUST BLOCKS SHALL BE PLACED BEHIND ALL FIRE HYDRANTS AS SHOWN ON DETAIL EXCEPT WHERE LOCKING OR SWIVEL FITTINGS ARE UTILIZED. UNLESS OTHERWISE SPECIFIED BY THE PUBLIC WORKS DEPARTMENT.
- ALL OFFSETS ARE TO BE DUCTILE IRON PIPE ASSEMBLIES LOCKED TOGETHER BY RETAINER GLANDS. DUCTILE IRON BENDS SHALL BE UTILIZED FOR ANY CHANGES IN ALIGNMENT OR GRADE.
- IF A WATER LINE IS TO BE ABANDONED, THE CONTRACTOR WILL FILL WITH CONTROLLED LOW STRENGTH MATERIAL, "DARAFILL" BRAND OR ENGINEER APPROVED EQUAL, VALVES WILL BE REMOVED OR FILLED AS REQUIRED BY PUBLIC WORKS INSPECTOR.
- CONTRACTOR SHALL COORDINATE WITH PUBLIC WORKS INSPECTOR AND NOTIFY ALL AFFECTED CUSTOMERS 24 HOURS PRIOR TO KILLOUT OF EXISTING WATER SYSTEM.
- WATER DISTRIBUTION SYSTEM STANDARDS CALL FOR MAXIMUM 48" COVER ON WATERLINES. WHEN DEPTHS EXCEED 17. 48" COVER TO AVOID OBSTRUCTION, THE USES OF BENDS COULD BE REQUIRED.
- CONTRACTOR SHALL KEEP ALL EXISTING VALVES ACCESSIBLE DURING ALL PHASES OF CONSTRUCTION
- ALL NEW WATER MAINS SHALL BE INSTALLED SO THAT PIPE IDENTIFICATION MARKINGS ARE LOCATED ON THE TOP 19. OF THE PIPE.
- ALL SERVICE LINES UNDER PAVEMENT SHALL BE ONE INCH. INSIDE DIAMETER, MINIMUM, UNLESS SPECIFIED OTHERWISE.

SPECIAL NOTE:

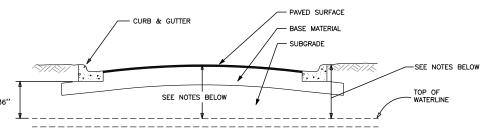
ENGINEER SHALL CONTACT THE PUBLIC WORKS DEPARTMENT FOR WATER VAULT DESIGN COORDINATION

SEPARATION OF WATER AND WASTEWATER LINES

- THE SEPARATION OF WATER AND WASTEWATER LINES AND THE MATERIAL USED SHALL BE IN ACCORDANCE WITH THE "RULES & REGULATIONS FOR PUBLIC WATER SYSTEMS" OF TEXAS COMMISSION ON ENVIRONMENTAL QUALITY AND THE CITY WATER DETAILS.
- WHENEVER WATER & WASTEWATER LINES CROSS, ONE JOINT OF C900 PVC WATER LINE SHALL BE CENTERED OVER THE WASTEWATER LINE IN ADDITION TO ANY REQUIREMENTS AS DICTATED BY ITEM 1

NOTES:

CONTRACTOR MAY BE REQUIRED BY THE PUBIC WORKS DEPARTMENT INSPECTOR TO INSTALL CENTERED JOINTS OF DUCTILE IRON PIPE AT WATERLINE CROSSINGS OF EXISTING HAZARDOUS PRODUCT FLOWLINES.



WATERLINE MINIMUM COVER REQUIREMENTS

NOTES:

- 1. ALL MAINS IN THE STREET SHALL HAVE A MINIMUM OF 36" OF COVER AND BE 12" MINIMUM BELOW SUBGRADE AT ALL POINTS AND HAVE VALVE CLEARANCES IN ACCORDANCE WITH THE VALVE DETAIL.
- 2. ALL TRANSMISSION MAINS (12" DIAMETER & ABOVE) IN THE STREET SHALL HAVE 48" OF COVER AT ALL POINTS.
- 3. ALL MAINS NOT UNDER THE STREET SHALL HAVE A MINIMUM OF 36" COVER AT ALL POINTS.

UNPAVED AREAS PAVED AREAS TOPSOIL TO BE PROVIDED SELECT BACKFILL MATERIAL FROM-EXIST. (4" MIN. DEPTH) EXCAVATION COMPACTED TO 95% D698) SEE TABLE 2 - ITEM A - ASPHALT OR CONCRETE PAVEMENT SECTION - CEMENT-STABILIZED SAND (2 SACKS CEMENT/C.Y. OF SAND) COMPACTED TO 95% STD. PROCTOR ĕ ĕ 2.2 DENSITY (ASTM D698) SEE TABLE 2 - ITEM B PIPES PIPES 유유 Z Z o o MAGNETIC WARNING TAPE 12" ABOVE PIPE SAND ENCASE WATERLINE X=8" MIN. FOR PIPES <16" DIA. X=12" MIN. FOR PIPES ≥16" DIA.

TYP. PIPE TRENCHING BEDDING AND BACKFILL FOR WATERLINE

NOTE: (CONCRETE PAVEMENT ONLY)

CONTRACTOR HAS OPTION TO USE CEMENT STABILIZED SAND OR BACKFILL WITH SELECT BACKFILL MATERIAL

CKFILL

GENERAL NOTE	S FOR BACKFILI
TABLE 1 BEDDING AND INITIAL BACKFILL (BELOW PIPE TO 12" ABOVE PIPE)	<u>F</u> (GREATER
	UNPAVED AREAS
ALL BEDDING AND INITIAL BACKFILL SHALL CONSIST OF THE FOLLOWING OR REFER TO DESIGN ENGINEER REQUIREMENTS: GRANULAR BACKFILL CONSISTING OF EITHER NATURAL SAND OR SANDY GRAVEL, OR MATERIAL PRODUCED BY CRUSHING OF NATURAL STONE OR GRAVEL. WATER LINES: 1. EXCAVATIONS <20FT. DEEP AND ABOVE WATER TABLE, USE MATERIAL MEETING THE FOLLOWING CRITERIA. MEETING REQUIREMENTS OF ASTM D2487 FOR: SP GP SW GW SP—SM GP—GM SW—SM GP—GM	A. FOR 12" ABOVE PIPE TO BOTTOM OF TOPSOIL BACKFILL SHALL BE APPROVED SELECT MATERIAL FROM THE EXCAVATION; OR IMPORTED MATERIAL; ALL TO BE FREE OF ROCKS, DEBRIS, OR ANY CLUMPS GREATER THAN 2" IN DIAMETER; LOOSE LIFTS TO BE PLACED 10" MAX. COMPACT MATERIAL TO 95% STD. PROCTOR (D698). MOISTURE TO BE ADJUSTED TO ± 3% OF OPTIMUM.
AND IN ADDITION: PASSING 1/2" SIEVE - 100% PASSING #4 SIEVE - 30% MINIMUM PLASTICITY INDEX (PI) - NP TO 10 MAX. 2. IN DEEP EXCAVATIONS (>20') OR BELOW WATER TABLE, USE CRUSHED STONE OR CRUSHED GRAVEL MEETING GRADATION OF: A. CONCRETE COARSE AGGREGATE; TxDOT ITEM 421; GRADE 2, 3, OR 4.	B. TOPSOIL TO BE PROVIDED EQUAL OR BETTER THAN EXISTING; AND MATCH EXISTING TOPSOIL DEPTH. COMPACT TO FIX CONFLICT TO EXISTING ADJACENT TOPSOIL. (CONSTRUCTION TO BE PERFORMED BY "DOUBLE DITCH," METHOD TOP SOIL SALVAGED TO BE PLACED ON

TABLE 2 (GREATER THAN 12" ABOVE PIPE)

AREAS PAVED AREAS PIPE TO

FOR 12" ABOVE PIPE TO 3' BELOW BOTTOM OF ROAD BASE: BACKFILL SHALL BE SELECT MATERIAL FROM EXCAVATION OR MATERIAL TO BE IMPORTED MATERIAL IN FITHER CASE, ALL MATERIAL SHALL MEET THE FOLLOWING: ATION; OR AL; ALL TO KS, DEBRIS, GREATER

PI 8-20 ETER; BE PLACED NO CLUMPS > 2" DIA. COMPACT 95% D698 STD PROCTOR TO 95%

LOOSE LIFTS OF 10" MAX OR IF SELECT MATERIAL FROM EXCAVATION DOES NOT MATERIAL FROM EXCAVATION DUES NOT MEET REQUIREMENTS, THEN USE CEMENT STABILIZED SAND SEE TABLE 2—ITEM B BELOW (OR PER DESIGN ENGINEER)

FOR 3' BELOW BOTTOM OF ROAD BASE TO BOTTOM OF ROAD BASE:

BACKFILL SHALL BE CEMENT STABILIZED SAND (2 SK/C.Y.) AND SHALL MEET THE FOLLOWING REQUIREMENTS

SAND GRADATION: % PASSING

55-100 40-100 25-100 #200 10-20 NP-10

(OR AS PER DESIGN ENGINEER)

COMPACT TO 95% OF D698, MOISTURE TO

PROJECT No.: C275-21184

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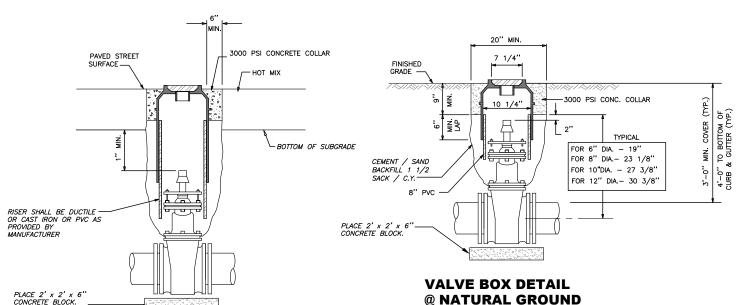
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SCALE AS NOTE DRAWN BY APPROVED E 12/22/202 JOB NO. C275-21184



ALL VALVES SHALL BE HOUSED IN APPROVED VALVE BOXES

1/4"

1 1/2"

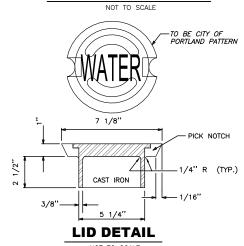
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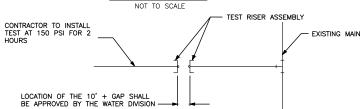
6" DIA.

10 1/4" I.D.

EXTENSION DETAIL

VALVE BOX DETAIL @ PAVEMENT





- HYDROSTATIC TEST: WATER FOR FILLING THE NEW WATER LINE AND PERFORMING TESTS WILL
 BE FURNISHED TO THE CONTRACTOR BY THE CITY OF SOUTH PADRE ISLAND THROUGH A
 STANDARD WATER CONSTRUCTION METER ONNECTION. STANDARD WATER CONSTRUCTION METER
 AND GAUGE WILL BE SUPPLIED BY THE CITY AFTER THE CONTRACTOR HAS PAID ALL
 APPLICABLE FEES FOR THE WATER CONSTRUCTION METER. THE TEST PUMP HIS APPROPRIATE
 CONNECTION POINTS AS APPROVED BY THE WATER SUPERINTENDENT FOR THE INSTALLATION
 OF THE PAGE AND THE PAGE SUPPLIES OF THE WATER SUPERINTENDENT FOR THE INSTALLATION

 OF THE PAGE SUPPLIES OF THE WATER SUPERINTENDENT FOR THE INSTALLATION

 OF THE PAGE SUPPLIES OF THE PAGE OF METER AND GAUGE SHALL BE FURNISHED BY THE CONTRACTOR. THE METER SHALL BE DIRECTLY CONNECTED TO THE MAIN OR PIPE BEING TESTED BY THE USE OF COPPER TUBING OR AN APPROVED REINFORCED HOSE. THE METER SHALL BE PROTECTED AGAINST EXTREME PRESSURES BY THE USE OF A ONE (1") INCH SAFETY RELIEF VALVE SET AT THE TEST PRESSURE PLUS TEN POUNDS PER SQUARE INCH AND FURNISHED BY THE CITY (48 HOURS
- 2. BACTERIOLOGICAL TEST: CONTRACTOR SHALL FURNISH AND INSTALL TEST RISER ASSEMBLY. AFTER BACTERIOLOGICAL SAMPLE PASSES TEST, CONTRACTOR SHALL REMOVE TEST RISER ASSEMBLIES AND TIE NEW SYSTEM TO EXISTING UNDER THE SUPERVISION OF THE PUBIC WORKS DEPARTMENT INSPECTOR. CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR AND EQUIPMENT THAT IS REQUIRED TO MAKE TIE / CONNECTION. CONTRACTOR WILL SCHEDULE & COORDINATE WITH PUBIC WORKS DEPARTMENT INSPECTOR ON DATE & TIME OF TIE-IN. (24 HOURS NOTIFICATION)
- CONTRACTOR SHALL FURNISH AND INSTALL TAPPING SLEEVE OR SADDLE AND TAPPING GATE VALVE AND VALVE BOX COMPLETE. CITY TO MAKE TAP (72 HOURS NOTIFICATION)

DETAIL "A" TEST RISER ASSEMBLY CONNECTION

SERVICE LINE MATERIALS

SERVICE CLAMPS
FOR 3/4", 1", 1 1/2" I.P. THREAD TAPS FOR 6" MAINS; 2" I.P. THREAD CLAMP TAP CONNECTION ALLOWED FOR 8" AND LARGER MAINS.

3/4", 1", 1 1/2". AND 2" REQUIRED WITH I.P. THREAD INLET BY COPPER COMPRESSION OUTLET WITH CLAMP - CORPORATION STOP REQUIRED AT ALL SERVICE TAPS.

ONE PIECE SDR9 POLYETHYLENE TUBING OR TYPE K COPPER

REQUIRED FOR ALL SERVICE LINES BETWEEN MAIN TO METER - SIZES REQUIRED 3/4", 1", 1 1/2", AND 2" (NO SPLICES ALLOWED)

REQUIRED AT ALL METERS - SIZES 3/4" & 1" - INSTALL 3/4" UNLESS DIRECTED OTHERWISE - COPPER COMPRESSION W/ CLAMP INLET BY METER COUPLING

METER (BY OTHERS)

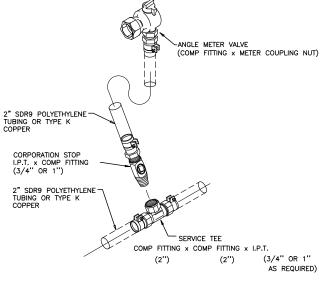
METER ADAPTER AND CHECK VALVE (BY OTHERS).

REQUIRED AT ALL METERS - SIZES 3/4" & 1" - INSTALL 3/4" UNLESS DIRECTED OTHERWISE - METER NUT INLET BY 3/4" MALE I.P. OUTLET.

ADAPTER COUPLING (BY OTHERS)
REQUIRED AT ALL METERS - 3/4" & 1" - FEMALE I.P. BY PVC COMPRESSION.

CAST IRON W/ HOT TAR DIP SHALL BE PROVIDED BY THE CONTRACTOR FOR 3/4" METER SETTINGS, IF EXISTING STRUCTURE DOES NOT HAVE ONE. BOXES FOR LARGER (1" & UP) METER SETTINGS SHALL BE FURNISHED BY THE CITY.

BRASS FITTINGS
BRASS FITTINGS SHALL COMPLY WITH A.W.W.A. C800-66 AND BE WRAPPED IN POLYETHYLENE.

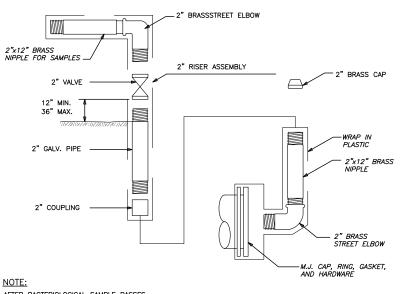


TYPICAL CONNECTION DETAIL

2" SDR9 POLYETHYLENE TUBING OR TYPE K
COPPER 2" COUPLINGS THRUST BLOCK SHALL BE INSTALLED AS DESIGNATED BY PUBIC WORKS DEPARTMENT INSPECTOR. MECHANICAL JOINT RESTRAINT DEVICE
"MEGALUG" OR APPROVED EQUAL, SHALL BE USED 2" SDR9 POLYETHYLENE -TUBING OR TYPE K COPPER 2 X 12 BRASS NIPPLI STREET ELL MJ CAP AND RING (DRILL AND TAP FOR 2" MIP)

NO MORE THAN 3 LOTS SHALL BE SERVED PER LEG.

TYPICAL CONNECTION DETAIL

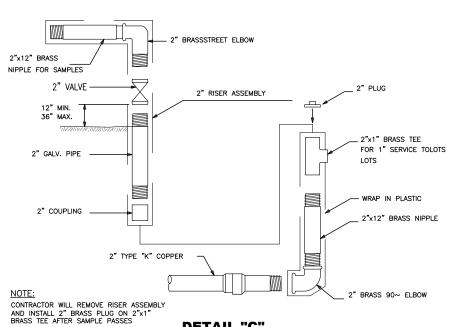


3/8"

AFTER BACTERIOLOGICAL SAMPLE PASSES TEST, CONTRACTOR WILL REMOVE RISER ASSEMBLY AND INSTALL 2" BRASS CAP

DETAIL "B" TEST RISER ASSEMBLY

NOT TO SCALE FURNISHED AND INSTALLED BY CONTRACTOR



DETAIL "C"

TEST RISER ASSEMBLY

FURNISHED AND INSTALLED BY CONTRACTOR

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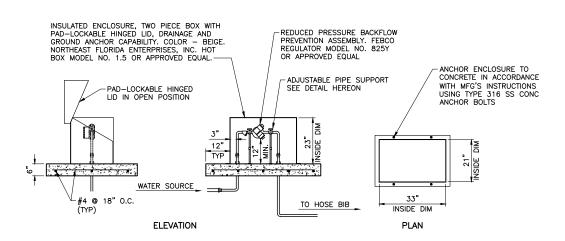
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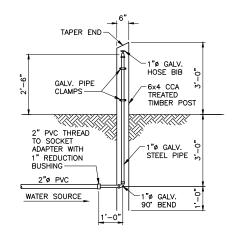
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SCALE: AS NOTE 12/22/2023 C275-2118



BACKFLOW PREVENTER

NOT TO SCALE



PROJECT No.: C275-21184

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DETAILS

STANDARD

WATER

AS NOTE

12/22/2023

C275-21184

C16

RAMP PROJECT A BOULEVARD LAND, TEXAS 78597

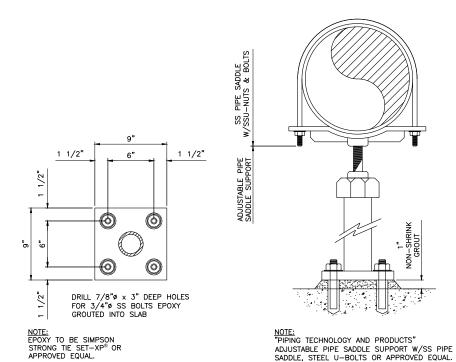
MARISOL BOAT I 1705 LAGUNA SOUTH PADRE ISL

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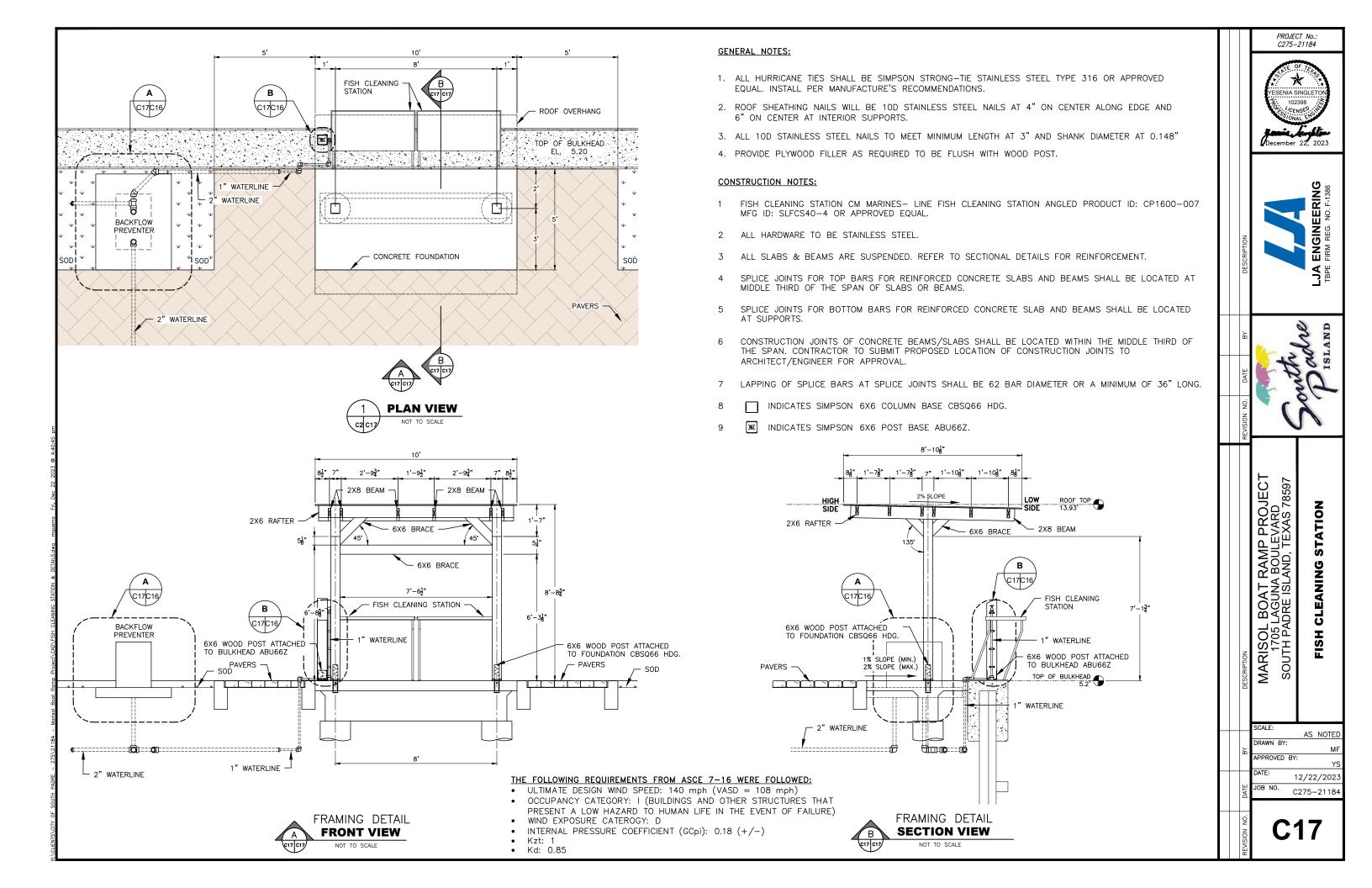
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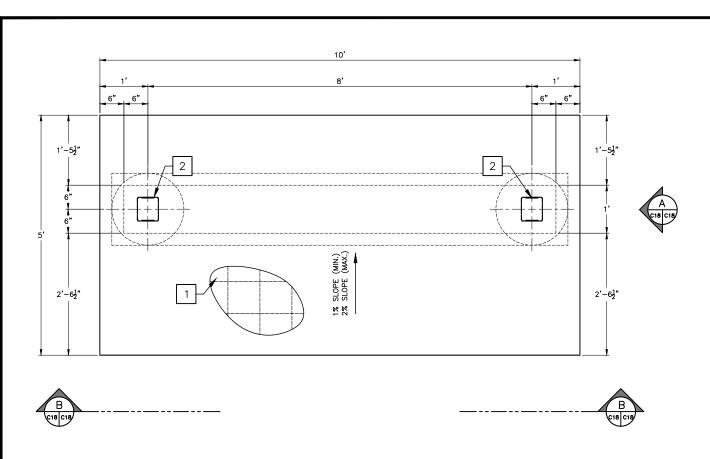
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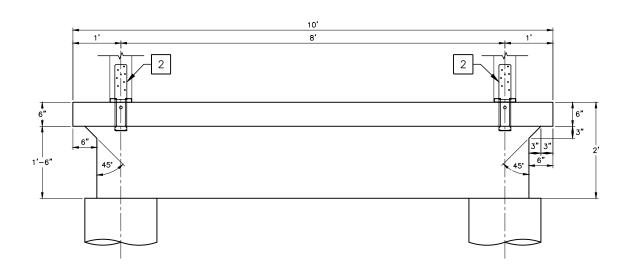


ADJUSTABLE PIPE SUPPORT

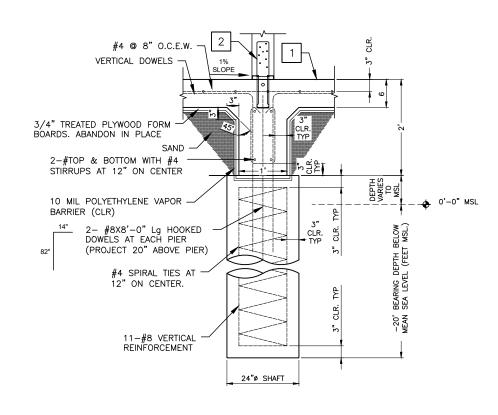














THE FOLLOWING REQUIREMENTS FROM ASCE 7-16 WERE FOLLOWED:

- ULTIMATE DESIGN WIND SPEED: 140 mph (VASD = 108 mph)
- OCCUPANCY CATEGORY: I (BUILDINGS AND OTHER STRUCTURES THAT PRESENT A LOW HAZARD TO HUMAN LIFE IN THE EVENT OF FAILURE)
- WIND EXPOSURE CATEROGY: D
- INTERNAL PRESSURE COEFFICIENT (GCpi): 0.18 (+/-)
- Kzt: 1
- Kd: 0.85

GENERAL NOTES:

- ALL SLABS & BEAMS ARE SUSPENDED. REFER TO SECTIONAL DETAILS FOR REINFORCEMENT.
- 2. SPLICE JOINTS FOR TOP BARS FOR REINFORCED CONCRETE SLABS AND BEAMS SHALL BE LOCATED AT MIDDLE THIRD OF THE SPAN OF SLABS OR BEAMS.
- 3. SPLICE JOINTS FOR BOTTOM BARS FOR REINFORCED CONCRETE SLAB AND BEAMS SHALL BE LOCATED AT SUPPORTS.
- 4. CONSTRUCTION JOINTS OF CONCRETE BEAMS/SLABS SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE SPAN. CONTRACTOR TO SUBMIT PROPOSED LOCATION OF CONSTRUCTION JOINTS TO ARCHITECT/ENGINEER FOR APPROVAL.
- 5. LAPPING OF SPLICE BARS AT SPLICE JOINTS SHALL BE 62 BAR DIAMETER OR A MINIMUM OF 36" LONG.
- 6. | INDICATES SIMPSON 6X6 COLUMN BASE CBSQ66 HDG.

CONSTRUCTION NOTES:

- PROPOSED 6" CONCRETE FOUNDATION SLAB AT A 1% SLOPE (TOTAL: 25 ft³) WITH #4 @ 8" O.C.E.W. ON COMPACTED SELECT FILL.
- 2 PROPOSED 6X6 COLUMN BASE CBSQ66 HDG (TOTAL: 2) TYP. INSTALL PER MRF RECOMMENDATIONS.

Decomber 22, 2023

TELAND

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PROJECT No.: C275-21184

> ISH CLEANING STATION FOUNDATION PLAN

SCALE:

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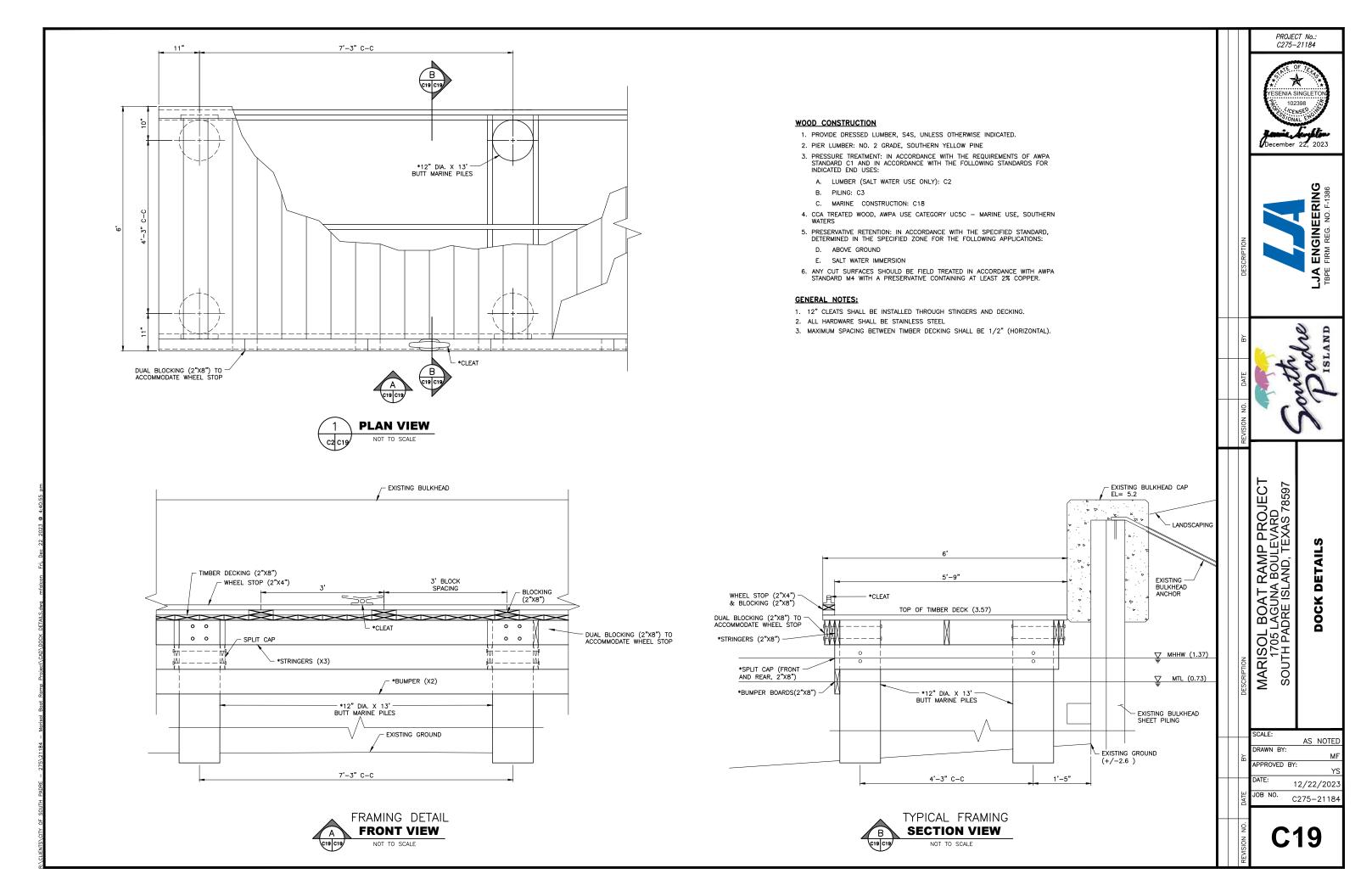
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DATE:

12/22/2023

MARISOL BOAT 1705 LAGUN SOUTH PADRE IS

JOB NO. C275-21184

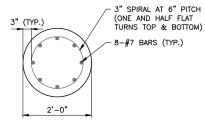


DRILLED SHAFT FOUNDATION NOTES:

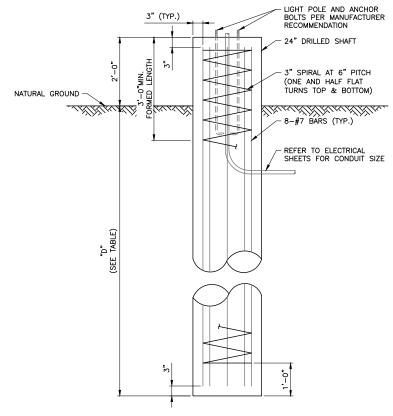
- 1. DESIGN LOADS A. WIND LOAD (ASCE 7-10)
- A. WIND LOAD (ASCE /-10)
 RISK CATEGORY II: 160 MPH
 B. LIGHT POLE AND LIGHTING FIXTURE LIMITS
 LIGHT POLE TYPE: ROUND
 OVERALL POLE LENGTH: 18 FT. MAX.
 POLE HEIGHT ABOVE GRADE: 20 FT. MAX.
 POLE BASE O.D.: 8-1/4 INCH. POLE AND LIGHTING FIXTURE WEIGHT: 600 LBS MAX. LIGHTING FIXTURE EPA: 2.1 SQ. FT. MAX.
- 2. DESIGN STRENGTH A. CONCRETE: F'c = 4,000 PSI AT 28 DAYS B. REINFORCEMENT: Fy = 60,000 PSI. PROVIDE ASTM A615 GRADE 60 STEEL.
- 3. FOR BORING LOGS, REFER TO GEOTECHNICAL REPORT TITLED: "GEOTECHNICAL ENGINEERING REPORT, BOAT RAMP AND PARKING LOT PROJECT, SOUTH PADRE ISLAND, TEXAS", PREPARED BY TERRACON
 CONSULTANTS, INC., TERRACON PROJECT NO. 88225026,
 MARCH 28, 2022.
- 4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, UNDERGROUND, AND OVERHEAD CONDITIONS PRIOR TO CONSTRUCTION.
- 5. EXISTING BULKHEAD TIE BACKS, RETAINING WALL FOOTINGS, BUILDING FOUNDATIONS ADJACENT TO THE DRILLED SHAFT SHALL BE PHYSICALLY LOCATED AND PROTECTED DURING FOUNDATION CONSTRUCTION. COORDINATE FINAL LIGHT POLE FOUNDATION LOCATIONS TO AVOID CONFLICTS. PROVIDE BRACING AND TEMPORARY SUPPORT IF NEEDED.
- 6. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE SOIL CONDITION AND PROVIDE PROPER CONSTRUCTION METHOD TO ENSURE THE SIZE AND DEPTH OF THE DRILLED HOLES FOR SHAFT INSTALLATION.
- 7. IF SHALLOW OR PERCHED GROUNDWATER IS IF SHALLOW OF PERCHED GROUNDWALER IS
 ENCOUNTERED AT THE TIME OF CONSTRUCTION, DRILLED
 SHAFT CONSTRUCTION SHOULD UTILIZE EITHER THE WET
 CONSTRUCTION METHOD USING DRILLING SLURRY OR
 THE CASING CONSTRUCTION METHOD TO FACILITATE PROPER DRILLED SHAFT INSTALLATION.
- 8. SHAFT EXCAVATION SHALL BE OBSERVED BY GEOTECHNICAL ENGINEER OF RECORD TO DETERMINE THAT THE PROPER BEARING STRATUM IS ENCOUNTERED.
- 9. DRILLED SHAFT INSTALLATION SHALL COMPLY WITH CHAPTER 4 OF THE FHWA PUBLICATION GEC 010 "DRILLED SHAFTS: CONSTRUCTION PROCEDURES AND LARD DESIGN METHODS" (FHWA—NHI—10—016), AND "STANDARD SPECIFICATION FOR THE CONSTRUCTION OF DRILLED PIERS", ACI PUBLICATION NO. 336.1-01.
- 10. DRILLED SHAFTS SHOULD BE CHECKED FOR SIZE AND DEPTH PRIOR TO THE PLACEMENT OF CONCRETE. PRECAUTIONS SHOULD BE TAKEN DURING THE PRECAUTIONS SHOULD BE TAKEN DURING THE PLACEMENT OF THE PIER REINFORCEMENT CONCRETE IN DRILLED SHAFTS TO PREVENT THE LOOSE EXCAVATED MATERIAL FROM FALLING INTO THE EXCAVATION.

DRILLED SHAFT FOUNDATION ID	"D" (FT)
A-E	15
F-I	25

REFER TO PROPOSED SIGHT PLAN FOR DRILLED SHAFT FOUNDATIONS A-I EXACT LOCATIONS.



DRILLED SHAFT FOUNDATION TOP VIEW



DRILLED SHAFT FOUNDATION FOR 17'-10" HIGH LIGHT POLE



DRILLED SHAFT FOUNDATION DETAIL

NOT TO SCALE

C275-21184 * SENIA SINGLE 102398

PROJECT No.:





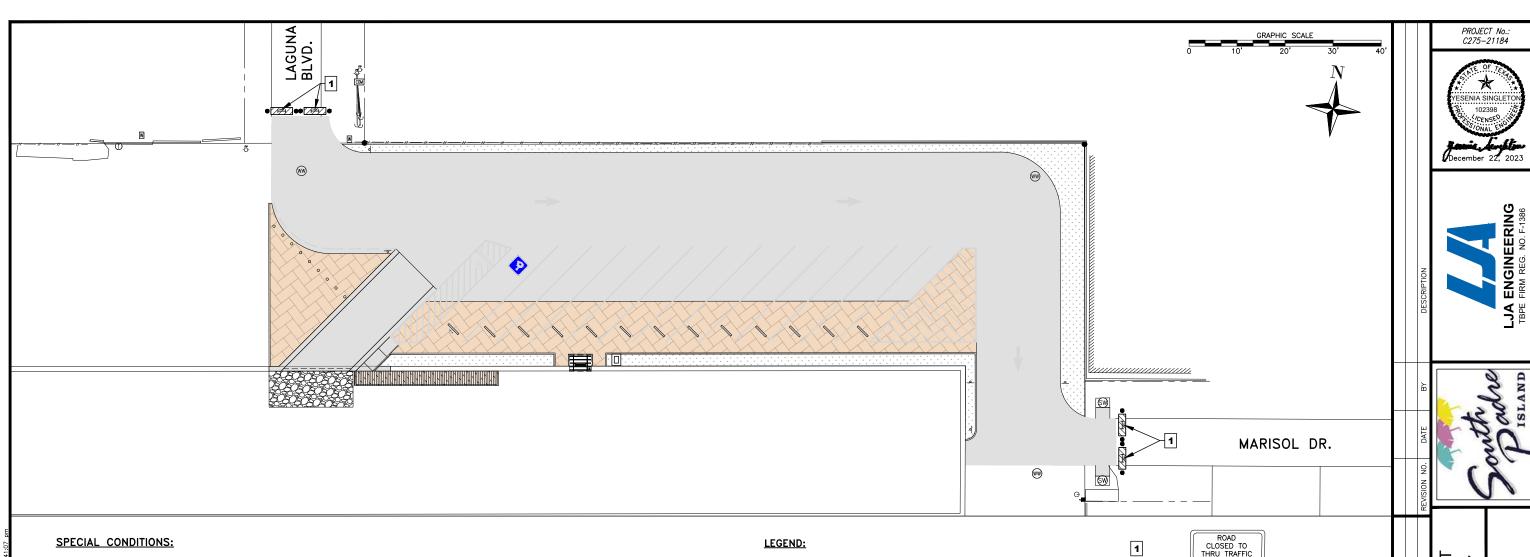
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SHAFT LIGHT I L BOAT 5 LAGUN VADRE IS ISOL 1705 L TH PA SOUTH

SCALE: AS NOTE DRAWN BY:

APPROVED B 12/22/2023 JOB NO. C275-21184



THE FOLLOWING SPECIAL CONDITIONS OUTLINE THE MINIMUM REQUIREMENTS ASSOCIATED WITH THIS TRAFFIC CONTROL PLAN.

NOTE:

- 1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM WITH CITY AND STATE SPECIFICATIONS IN ACCORDANCE WITH THE LATEST VERSION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND SUBSEQUENT REVISIONS.
- 2. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES DURING THE COURSE OF THE CONSTRUCTION PERIOD.
- 3. THE CONTRACTOR SHALL MAINTAIN ALL TRAFFIC SIGNS DURING THE CONSTRUCTION PERIOD.
- 4. ALL CONSTRUCTION WARNING SIGNS MAY BE MOUNTED ON PORTABLE DEVICES.
- 5. SHOULD ANY TRAFFIC SIGN, SIGN POST OR ITS FOUNDATION BE DAMAGED, CONTRACTOR SHALL REPORT SUCH INFORMATION IMMEDIATELY TO THE ATTENTION OF THE CITY'S STREET DEPARTMENT AT. AFTER 5 PM WEEKDAYS AND ON WEEKENDS, ALL EMERGENCY SITUATIONS SHOULD BE REPORTED TO THE POLICE DEPARTMENT AT.
- 6. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL RESIDENT AND BUSINESS DRIVEWAYS DURING THE CONSTRUCTION PERIOD.
- 7. THE CONTRACTOR SHALL PROVIDE A CERTIFIED FLAGGER DURING THE COURSE OF THE CONSTRUCTION PERIOD. CERTIFIED FLAGGER WILL NOT BE PAID DIRECTLY BUT TO BE CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS. CONTRACTOR SHALL NOT BEGIN ANY CONSTRUCTION ACTIVITIES UNLESS THERE IS ENOUGH PERSONNEL TO ENSURE TCP IS FOLLOWED AS WELL AS CONSTRUCTION ACTIVITY.
- 8. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING BICYCLE TRAFFIC AROUND ALL WORK AREAS THROUGHOUT THE PERIODS OF CONSTRUCTION WHEN EXISTING BICYCLE TRAILS, LANES, OR ROUTES ARE DESIGNATED. WHERE POSSIBLE, ADEQUATE SPACE FOR BICYCLISTS MUST BE PROVIDED, AND BICYCLE DETOUR SIGNS, INCLUDING "SHARE THE ROAD" SIGNS SHALL BE INSTALLED. WHEN ADEQUATE SPACE IS NOT AVAILABLE TO PROVIDE FOR BICYCLE ACCESS, THE BICYCLE FACILITIES SHALL BE ADEQUATELY DETOURED AROUND THE CONSTRUCTION SITE. THE DETOUR ROUTE SHALL MINIMIZE OUT—OF—DIRECTION TRAVEL DISTANCE, AND SHALL BE ADEQUATELY SIGNED AND DIRECTED. BICYCLE DETOUR SIGNS SHALL BE INCIDENTAL TO PAYMENT FOR TRAFFIC CONTROL.
- 9. THE WORK AREA SHALL NEVER PRESENT AN IMPASSABLE CONDITION. CONTRACTOR SHALL MAINTAIN AT LEAST ONE 9' MINIMUM TRAVEL LANE AT ALL TIMES DURING CONSTRUCTION.
- 10. ALL CONSTRUCTION ACTIVITIES WITHIN THE PROPOSED CONSTRUCTION AREA SHALL BE CONTAINED IN BETWEEN TWO FLAG PERSONS.
- 11. FLAG PERSONS SHALL BE EQUIPPED WITH TWO—WAY RADIOS FOR COMMUNICATION, AND WILL BE RESPONSIBLE FOR STOPPING AND RELEASING TRAFFIC AS NEEDED AROUND THE WORK AREA.
- 12. CONTRACTOR SHALL SCHEDULE CONSTRUCTION SO THAT BOTH TRAFFIC LANES WILL BE OPENED ALLOWING FOR TWO—WAY TRAFFIC AT THE END OF EACH DAY. PRIOR TO DIRECTING TRAFFIC ON A MILLED, UNEVEN OR ANY OTHER SURFACE LESS THAN A SMOOTH PAVEMENT, THE CONTRACTOR SHALL PLACE THE APPROPRIATE SIGNS TO WARN TRAFFIC OF THE UPCOMING CONDITIONS. THE FOLLOWING SIGNS MAY BE REQUIRED DEPENDING ON WHICHEVER SUITS THE CURRENT CONDITIONS: ECW8—8 "ROUGH ROAD", ECW8—7 "LOOSE GRAVEL", CW8—11 "UNEVEN LANES".
- 13. CONTRACTOR NEEDS TO INFORM PROPERTY OWNERS WHEN THEY PLAN TO START WORK AND LET THEM KNOW HOW LONG WORK WILL LAST DEPENDING ON WEATHER CONDITIONS.

PROPOSED CONSTRUCTION AREA

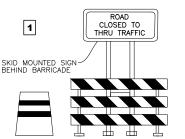
● TYPE III BARRICADE

DENOTES - SKID MOUNTED SIGNS

REFLECTORIZED PLASTIC DRUM

NOTE:

- 1. USE 30 MPH SPEED LIMIT FOR MIN. SIGN SPACING
- 2. FOR CONSTRUCTION WARNING SIGN SIZE AND SPACING SEE TABLE 'B'



TYPICAL ROAD CLOSURE TRAFFIC CONTROL APPLICATION



8' TYPE III BARRICADE

TAB	LE B		num Desi Lengths	Y Y Spacing of Device Minimum		Minimum Sign Spacing X		
Posted Speed X	Formula	10' Offset	11' Offset	12' Offset	On a Tangent		Distance	
30		150'	165'	180'	30'	60-75	120'	
35	L=\frac{WS^2}{60}	205'	225'	245'	35'	70'-90'	160'	
40		265'	295'	320'	40'	80'-100'	240'	
45		450'	495'	540'	45'	90'-110'	320'	
50		500'	550'	600'	50'	100'-125'	400'	
55	L=WS	550'	605'	660'	55'	110'-140'	500'	
60	L=W3	600'	660'	720'	60'	120'-150'	X 600'	
65		650'	715'	780'	65'	130'-165'	X 700'	
70		700'	770'	840'	70'	140'-175'	X 800'	

PERIMETER SIGNAGE PLAN
NOTE: FOR CONSTRUCTION WARNING
SIGN SPACING (SEE TABLE "B")

MARISOL BOAT RAMP PROJECT 1705 LAGUNA BOULEVARD SOUTH PADRE ISLAND, TEXAS 78597

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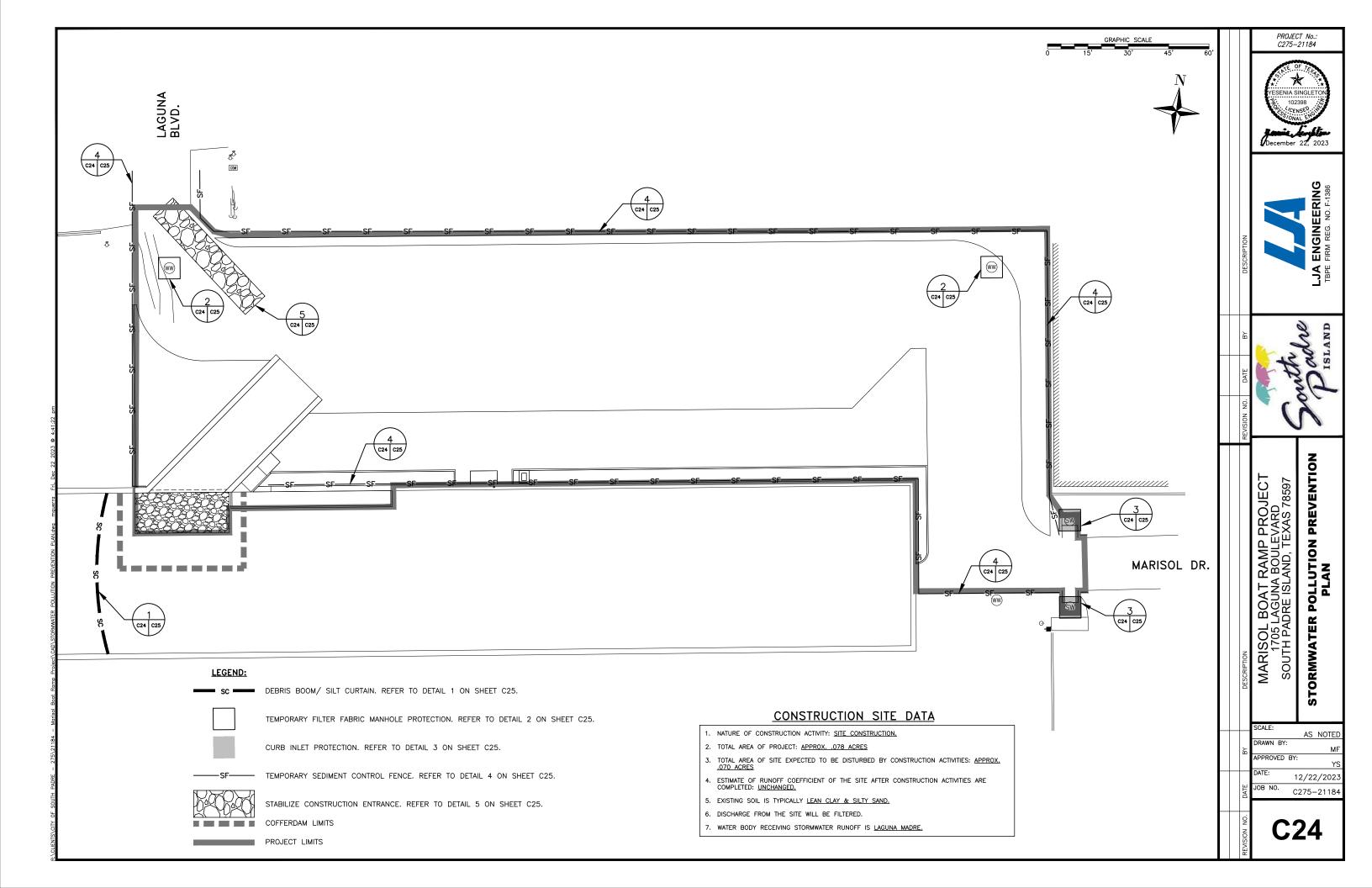
APPROVED BY:

DATE: 12/22/2023

JOB NO. C275-21184

1. STORMWATER POLLUTION PREVENTION-CLEAN WATER ACT SECTION 402	3. CULTURAL RESOURCES	6. HAZARDOUS MATERIAL OR CONTAMINATION ISSUES		PROJECT No.: C275-21184
TPDES TXR 150000: STORMWATER DISCHARGE PERMIT OR CONSTRUCTION GENERAL PERMIT REQUIRED FOR PROJECTS WITH 1 OR MORE ACRES DISTURBED SOIL. PROJECTS WITH ANY DISTURBED SOIL MUST PROTECT FOR EROSION AND SEDIMENTATION IN ACCORDANCE WITH THE SPECIFICATIONS. LIST MS4 OPERATOR(S) THAT MAY RECEIVE DISCHARGE FROM THIS PROJECT. THEY MAY NEED TO BE NOTIFIED PRIOR TO CONSTRUCTION ACTIVITIES. 1. THIS PROJECT IS LOCATED WITHIN THE BOUNDARIES OF THE SOUTH PADRE ISLAND MUNICIPAL SEPARATE STORM SEWER SYSTEM, AND WOULD COMPLY WITH ALL APPLICABLE MS4 REQUIREMENTS. NO ACTION REQUIRED REQUIRED ACTION ACTION NO. 1. PREVENT STORMWATER POLLUTION BY CONTROLLING EROSION AND SEDIMENTATION IN ACCORDANCE WITH TPDES PERMIT TXR 150000. 2. COMPLY WITH THE SW3P AND REVISE WHEN NECESSARY TO CONTROL POLLUTION OR REQUIRED BY THE ENGINEER. 3. POST CONSTRUCTION SITE NOTICE (CSN) WITH SW3P INFORMATION ON OR NEAR THE SITE, ACCESSIBLE TO THE PUBLIC AND TCEQ, EPA OR OTHER INSPECTORS. 4. WHEN CONTRACTOR PROJECT SPECIFIC LOCATIONS (PSL's) INCREASE DISTURBED SOIL AREA TO 5 ACRES OR MORE, SUBMIT NOI TO TCEQ AND THE ENGINEER.	REFER TO TXDOT STANDARD SPECIFICATIONS IN THE EVENT HISTORICAL ISSUES OR ARCHEOLOGICAL ARTIFACTS ARE FOUND DURING CONSTRUCTION. UPON DISCOVERY OF ARCHEOLOGICAL ARTIFACTS (BONES, BURNT ROCK, FLINT, POTTERY, ETC.) CEASE WORK IN THE IMMEDIATE AREA AND CONTACT THE ENGINEER IMMEDIATELY. No action required Required action	GENERAL (APPLIES TO ALL PROJECTS): COMPLY WITH THE HAZARD COMMUNICATION ACT (THE ACT) FOR PERSONNEL WHO WILL BE WORKING WITH HAZARDOUS MATERIALS BY CONDUCTING SAFETY MEETINGS PRIOR TO BEGINNING CONSTRUCTION AND MAKING WORKERS AWARE OF POTENTIAL HAZARDS IN THE WORKPLACE. ENSURE THAT ALL WORKERS ARE PROVIDED WITH PERSONAL PROTECTIVE EQUIPMENT APPROPRIATE FOR ANY HAZARDOUS MATERIALS USED. OBTAIN AND KEEP ON—SITE MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL HAZARDOUS PRODUCTS USED ON THE PROJECT, WHICH MAY INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING CATEGORIES: PAINTS, ACIDS, SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES, FUELS AND CONCRETE CURING COMPOUNDS OR ADDITIVES. PROVIDE PROTECTED STORAGE, OFF BORE GROUND AND COVERED, FOR PRODUCTS WHICH MAY BE HAZARDOUS. MAINTAIN PRODUCT LABELING AS REQUIRED BY THE ACT. MAINTAIN AN ADEQUATE SUPPLY OF ON—SITE SPILL RESPONSE MATERIALS, AS INDICATED IN THE MSDS. IN THE EVENT OF A SPILL, TAKE ACTIONS TO MITIGATE THE SPILL AS INDICATED IN THE MSDS, IN ACCORDANCE WITH SAFE WORK PRACTICES, AND CONTACT THE DISTRICT SPILL COORDINATOR IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER CONTAINMENT AND CLEANUP OF ALL PRODUCT SPILLS. CONTACT THE ENGINEER IF ANY OF THE FOLLOWING ARE DETECTED: * DEAD OR DISTRESSED VEGETATION (NOT IDENTIFIED AS NORMAL) * TRASH PILES, DRUMS, CANISTERS, BARRELS, ETC. * UNDESIRABLE SMELLS OR ODORS * EVIDENCE OF LEACHING OR SEEPAGE OF SUBSTANCES DOES THE PROJECT INVOLVE ANY BRIDGE CLASS STRUCTURE REHABILITATION OR REPLACEMENTS (BRIDGE CLASS STRUCTURES NOT INCLUDING BOX CULVERTS)?	DESCRIPTION	December 22, 2023
2. WORK IN OR NEAR STREAMS, WATER BODIES AND WETLANDS CLEAN WATER ACT SECTIONS 401 AND 404. USACE PERMIT REQUIRED FOR FILLING, DREDGING, EXCAVATING OR OTHER WORK IN ANY WATER BODIES, RIVERS, CREEKS, STREAMS, WETLANDS OR WET AREAS. THE CONTRACTOR MUST ADHERE TO ALL OF THE TERMS AND CONDITIONS ASSOCIATED WITH THE FOLLOWING PERMIT(S): NO PERMIT REQUIRED NATIONWIDE PERMIT 14 - PCN NOT REQUIRED (LESS THAN 1/10TH ACRE WATERS OR WETLANDS AFFECTED) NATIONWIDE PERMIT 36 - BOAT RAMPS - PCN REQUIRED (1/10 TO <1/2 ACRE, 1/3 IN TIDAL WATERS) INDIVIDUAL 404 PERMIT REQUIRED OTHER NATIONWIDE PERMIT REQUIRED: LETTER OF PERMISSION (ATTENDANT DOCK) SWG-2022-00301 REQUIRED ACTIONS: LIST WATERS OF THE US PERMIT APPLIES TO, LOCATION IN PROJECT AND CHECK BEST MANAGEMENT PRACTICES PLANNED TO CONTROL EROSION, SEDIMENTATION AND POST-PROJECT TSS. 1. 2. 3. 4. THE ELEVATION OF THE ORDINARY HIGH WATER MARKS OF ANY AREAS REQUIRING WORK TO BE PERFORMED IN THE WATERS OF THE US REQUIRING THE USE OF A NATIONWIDE PERMIT CAN BE FOUND ON THE BRIDGE LAYOUTS.	1. 2. 5. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS. ACTION NO. 1. THE FEDERAL MIGRATORY BIRD TREATY ACT (MBTA) STATES THAT IT IS UNLAWFUL TO KILL, CAPTURE, COLLECT, POSSESS, BUY, SELL, TRADE OR TRANSPORT ANY MIGRATORY BIRD, NEST, YOUNG, FEATHER, OR EGG IN PART OR IN WHOLE, WITHOUT A FEDERAL PERMIT. IN ACCORDANCE WITH THIS REGULATION, THE CONTRACTOR WILL AVOID DISTURBING, DESTFOOYING, REMOVING, OR RELOCATING ACTIVE NESTS FOUND IN TREES, CULVERTS, BRIDGES, ON THE GROUND, ETC. TYPICAL BREEDING SEASON OCCURS FROM MARCH THROUGH AUGUST, THEREFORE, TREE TRIMMING AND OTHER ACTIVITIES THAT MAY DISTURB BREEDING BIRDS SHOULD BE DONE I THE NON—BREEDING SEASON, (SEPTEMBER—FEBRUARY), WHEN POSSIBLE. IF WORK MUST BE PERFORMED DURING THE BREEDING SEASON, THE CONTRACTOR SHALL HAVE A QUALIFIED BIOLOGIST CONDUCT A SURVEY OF THE RIGHT OF WAY TO DETERMINE IF BIRD NESTS ARE PRESENT. IN THE EVENT THAT ACTIVE NESTS ARE ENCOUNTERED ON—SITE DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND MEASURES SHALL BE TAKEN TO AVOID DISTURBANCE OF THESE BIRDS, THEIR OCCUPIED NEST, EGGS, AND/OR YOUNG, IN ACCORDANCE WITH THE MBTA. PHASING OF WORK DURING CONSTRUCTION ANY BE NECESSARY TO STAY IN COMPLIANCE WITH THE MBTA. THE CONTRACTOR CAN DISCUSS OTHER PREVENTATIVE MEASURES WITH THE PROJECT ENGINEER AND/OR DISTRICT ENWINGNMENTAL STAFF. 2. WEST INDIAN MANATEES MAY APPROACH THE PROJECT AREA AND ARE VULNERABLE TO BOAT STRIKES. THE SILT CURTAIN SHALL REMAIN IN PLACE AS BARRIER TO ENTRY TO THE WORK AREA WHILE WORK IS BEING COMPLETED IN THE WATER. DO NOT FEED ON WATER MANATEES. IF A MANATEE REMAINS IN THE PROJECT AREA, THEN CONTACT THE USFWS AT 361–533–6765 AND/OR THE TEXAS MARINE MAMMAL STRANDING NETWORK AT 800–962–6625. THE USFWS RECOMMENDS THE CONTRACTOR PROVIDE MATERIALS TO ASSIST WITH THESE INSTRUCTIONS PREFERABLY IN BOTH ENGLISH AND SPANISH.	IF "NO", THEN NO FURTHER ACTION IS REQUIRED. IF "YES", THEN TXDOT IS RESPONSIBLE FOR COMPLETING ASBESTOS ASSESSMENT/INSPECTION. ARE THE RESULTS OF THE ASBESTOS INSPECTION POSITIVE (IS ASBESTOS PRESENT)? YES NO	REVISION NO. DATE BY D	AT RAMP PROJECT UNA BOULEVARD I ISLAND, TEXAS 78597 TENTAL PERMITS COMMENTS (EPIC) TENTAL PERMITS TENTAL PERMIT
BEST MANAGEMENT PRACTICES: EROSION	LIST OF ABBREVIATIONS BMP: BEST MANAGEMENT PRACTICE SPILL PREVENTION CONTROL AND COUNTERMEASURING SW3P: STORM WATER POLLUTION PREVENTION PLAN DSHS: TEXAS DEPARTMENT OF STATE HEALTH SERVICES FHWA: FEDERAL HIGHWAY ADMINISTRATION PSL: PROJECT SPECIFIC LOCATION TOTEO: TEXAS COMMISSION ON ENVIRONMENTAL QUALITY TYPE STEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM MBTA: MIGRATORY BIRD TREATY ACT TAXOT: TEXAS PARKS AND WILDLIFE DEPARTMENT TAXOT: TEXAS DEPARTMENT OF TRANSPORTATION TAXET: THREATENED AND ENDANGERED SPECIES NOTE: NOTICE OF INTENT USAGE: U.S. ARMY CORPS OF ENGINEERS USFWS: U.S. FISH AND WILDLIFE SERVICE		EVISION NO. DATE BY DESCRIPTION	MARISOL BAS NOTED BAS NOTE

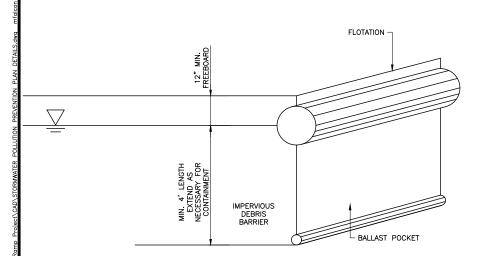
SITE DESCRIPTION	EROSION AND SEDIMENT CONTROLS						
PROJECT LIMITS: THE MARISOL BOAT RAMP PROJECT WILL BE LOCATED AT 1705 LAGUNA BLVD., SOUTH PADRE ISLAND, TX 78597 (SEE SHEET C4). LATITUDE. 26'05'48" N LONGITUDE 97'10'04" W	SOIL STABILIZATION PRACTICES: TEMPORARY SEEDING PERMANENT PLANTING, SODDING, OR SEEDING MULCHING	OTHER EROSION AND SEDIMENT CONTROLS: MAINTENANCE: ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER, IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE. ACCUMULATIONS OF SEDIMENT WILL BE REMOVED BEFORE OR AS INDICATED BY THE RESULTS OF REGULAR SITE INSPECTIONS AND IMMEDIATELY BEFORE THE ACCUMULATION REACHES 50% OF DESIGN CAPACITY. SEDIMENT ACCUMULATED IN THE		YESENIA SINGLETON 102398			
PROJECT DESCRIPTION: PROJECT SITE IS LOCATED AT THE END OF WEST MARISOL STREET AND SOUTH OF LAGUNA BOULEVARD. THE IMPROVEMENTS CONSIST OF REMOVING 60 LINEAR FEET OF EXISTING BULKHEAD AND INSTALLATION OF NEW BOAT RAMP FACILITIES INCLUDING DRAINAGE, PAVING, LIGHTING, SIDEWALK, ATTENDANT DOCK, UTILITIES, AND FISH CLEANING STATION.	SOIL RETENTION BLANKET BUFFER ZONES PRESERVATION OF NATURAL RESOURCES OTHER:	STREET WILL BE REMOVED AND DISPOSED OF PROPERLY FROM THE SITE AS INDICATED IN THE BMP. INSPECTION: INSPECTIONS WILL BE PERFORMED BY THE CONTRACTOR AND/OR THE CITY EVERY FOURTEEN		December 22, 2023			
MAJOR SOIL DISTURBING ACTIVITIES: SOIL DISTURBING ACTIVITIES WILL INCLUDE INSTALLATION OF SEDIMENT AND EROSION CONTROL BMPs. EXCAVATION/DEMOLITION OF EXISTING BULKHEAD, GRADING PREPARATION, AND CONSTRUCTION OF NEW BOAT RAMP, ATTENDANT DOCK, AND PARKING LOT AMENITIES.	STRUCTURAL PRACTICES: SILT FENCES HAY BALES ROCK BERMS DIVERSION, INTERCEPTOR, OR PERIMETER DIKES DIVERSION, INTERCEPTOR, OR PERIMETER SWALES	(14) DAYS AND WITHIN 24 HOURS OF A 0.5-INCH OR MORE RAIN EVENT (AS RECORDED ON A RAIN GAUGE TO BE LOCATED AT THE PROJECT SITE). SITE INSPECTION REPORTS WILL BE COMPLETED AND THE ORIGINAL KEPT WITH THE SWPPP. COPIES OF INSPECTION REPORTS AND OTHER SWPPP DOCUMENTATION SHALL BE PROVIDED TO THE CITY INSPECTOR. WASTE MATERIALS:TRASH, CONSTRUCTION DEBRIS AND CONSTRUCTION CHEMICALS WILL BE REMOVED.	NOIL	ENGINEERING FIRM REG. NO. F-1386			
	DIVERSION DIKE AND SWALE COMBINATIONS PIPE SLOPE DRAINS PAYED FLUMES ROCK BEDDING AT CONSTRUCTION EXIT TIMBER MATTING AT CONSTRUCTION EXIT CHANNEL LINERS SEDIMENT TRAPS SEDIMENT BASINS	BEFORE OR AS INDICATED BY THE RESULTS OF THE REGULAR SITE INSPECTIONS. SUBCONTRACTORS USING CONSTRUCTION CHEMICALS WILL REMOVE ALL UNUSED CONTAINERS. EMPTY CONTAINERS WILL BE DISPOSED OF IN ACCORDANCE WITH TCEQ REGULATIONS.	DESCRIF	LJA EN			
UUU SSI SSI SSI SSI SSI SSI SSI SSI SSI	STORM INLET SEDIMENT TRAP STONE OUTLET STRUCTURES CURBS AND GUTTERS STORM SEWERS VELOCITY CONTROL DEVICES EROSION CONTROL LOGS OTHER: STABILIZED CONSTRUCTION ENTRANCE AND EXIT.	HAZARDOUS WASTE (INCLUDING SPILL REPORTING): SPILL RESPONSE BULLETINS SHALL BE POSTED ON SITE OR AVAILABLE IN THE SITE SUPERINTENDENT'S VEHICLE. PAINTS, THINNERS, ACIDS, AND SOLVENTS SHALL BE STORED IN A STRUCTURE SECURED FROM STORM WATER EXPOSURE, OR IN THE CONTRACTOR'S VEHICLES. THESE ITEMS SHALL BE REMOVED FROM THE WORK SITE DAILY. NO WASTE PRODUCTS SHALL BE PERMITTED IN THE DUMPSTER. ON SITE FUELING TANKS, IF USED, SHALL BE EQUIPPED WITH POLLUTION DAMS CAPABLE OF HOLDING CAPACITY EQUAL TO THE TANK. AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES ARE CONSIDERED TO BE HAZARDOUS: PAINTS, ADHESIVES, PETROLEUM PRODUCTS, CLEANING SOLVENTS, ASPHALT PRODUCTS, OR CONCRETE CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE SPILL COORDINATOR SHALL BE CONTACTED IMMEDIATELY. ALL PRODUCTS USED SHALL BE STORED IN PROPERLY LABELED CONTAINERS, AND REMOVED FROM THE JOBSITE WHEN NO LONGER NEEDED.	ION NO. DATE BY	South he			
	NARRATIVE — SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES: REFER TO PLAN SHEET C24.	SANITARY WASTE: ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS AS NECESSARY; OR AS REQUIRED BY LOCAL REGULATION, BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.	REVISI	T &			
TOTAL PROJECT AREA: APPROXIMATELY 0.78 ACRES TOTAL AREA TO BE DISTURBED: APPROXIMATELY 0.70 ACRES		OFFSITE VEHICLE TRACKING:		PROJECT /ARD XAS 78597 PREVENTI			
WEIGHTED RUNOFF COEFFICIENT: (AFTER CONSTRUCTION): THE WEIGHTED RUNOFF FOR PAVED AREAS WILL BE 0.85 EXISTING CONDITION OF SOIL & VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER: SILTY SAND. MOST OF THE LAND REMAINS CLEARED WITH VERY MINIMAL VEGETATION ON THE OUTER EDGES OF THE PROPERTY.	STORM WATER MANAGEMENT: THE CONTRACTOR SHALL ABIDE BY THE PROVISIONS OF TOEO STORM	OTHERALL TEMPORARY EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS) SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED IMMEDIATELY AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY CONTROLS ARE NO LONGER NEEDED, WHICHEVER IS LATER. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DEBRIS BOOM/SILT CURTAIN SHALL BE INSTALLED AROUND THE WETTED PERIMETER OF ALL ACTIVE DEMOLITION, EXCAVATION, FILLING AND MATERIAL OFFLOADING WORK AREAS. CONTRACTOR SHALL MAINTAIN THE BOOM THROUGHOUT DURATION OF ALL IN-WATER CONSTRUCTION ACTIVITIES. ALL CONTRACTOR VESSELS SHALL BE MOORED INSIDE THE BOOM. SILT CURTAINS SHALL BE DEPLOYED AROUND EXCAVATION AND OFFLOADING WORK AREAS AS DICTATED BY WATER QUALITY REQUIREMENTS. DURING MATERIAL DEWATERING OPERATIONS, THE CONTRACTOR SHALL IMPLEMENT SEDIMENT CONTROL BMPS (SILT FENCING, MULCH SOCKS, OR APPROVED EQUIVALENT) TO MANAGE SEDIMENT RUNOFF.		SOL BOAT RAMP F 705 LAGUNA BOULEY H PADRE ISLAND, TE ATER POLLUTION I PLAN NOTES			
NAME OF RECEIVING WATERS: THE RECEIVING WATERS FOR THE STORM WATER RUNOFF FROM THIS PROPERTY IS THE LAGUNA MADRE DRAINAGE BASIN, SEGMENT 2491. THE TCEQ HAS CLASSIFIED THESE WATERS AS BAY AND ESTUARY. THE TCEQ HAS CLASSIFIED THE WATER BODY USES AS AQUATIC LIFE USE, CONTACT RECREATION USE, GENERAL USE, FISH CONSUMPTION USE, OYSTER WATERS USE.	WATER POLLUTANT DISCHARGE ELIMINATION SYSTEM REGULATIONS CONCERNING PERMITS FOR CONSTRUCTION ACTIVITIES, INCLUDING IMPLEMENTATION OF THE POLLUTION PREVENTION PLAN AND BEST MANAGEMENT PRACTICES. FUELING AND MAINTENANCE OF VEHICLES AND EQUIPMENT SHALL BE PERFORMED IN COMPLIANCE WITH EPA AND ALL OTHER FEDERAL AND STATE REGULATIONS. NATURAL AND CULTIVATED VEGETATION SHALL BE LEFT UNDISTURBED AS MUCH AS POSSIBLE. THE CONTRACTOR SHALL CONSTRUCT STRUCTURAL BEST MANAGEMENT PRACTICES AS NEEDED AND AS REQUIRED TO PREVENT SILT AND DEBRIS FROM ENTERING INTO THE STORM SEWER SYSTEM. THE CONTRACTOR SHALL BE REQUIRED TO SPRINKLE FOR DUST CONTROL AS DIRECTED BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL INSPECT TEMPORARY EROSION/SEDIMENTATION CONTROLS PERIODICALLY TO ENSURE THAT THE CONTROLS HAVE NOT BEEN SIGNIFICANTLY DISTURBED. ANY SEDIMENT OR DEBRIS THAT HAS ACCUMULATED SHALL BE REMOVED AND PLACED IN A DESIGNATED SPOILS DISPOSAL SITE. ALL TREES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED DURING CONSTRUCTION WITH TEMPORARY FENCING OR OTHER APPROVED MEANS. WHERE CONDITIONS PREVENT INSTALLING TEMPORARY FENCING AT LEAST 4 FEET FROM THE TREE TRUNK, THE CONTRACTOR SHALL PROTECT THE TREE TRUNK WITH STRAPPED—ON PLANKING.	REMARKS: DISPOSAL AREAS, STOCKPILES, AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS, DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, STREAMBED OR WATER BODY. CONSTRUCTION STAGING AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR. CONSTRUCTION SHOULD BE ACCOMPLISHED IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS. ALL WATERWAYS SHALL BE CLEARED OF TEMPORARY EMBANKMENT, TEMPORARY MATTING, FALSE WORK, OR OTHER OBSTRUCTIONS PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT PART OF THE FINISHED WORK. NO CONSTRUCTION WASTE WILL BE ALLOWED TO BE BURIED WITHIN THE LIMITS OF THE RIGHT OF WAY.	BY DESCRIP	SCALE: AS NOTEL DRAWN BY: APPROVED BY: YS DATE: 12/22/2023			
	USE OF NAILS IS PROHIBITED. THE CONTRACTOR SHALL NOT USE MECHANICAL EXCAVATORS, TO THE MAXIMUM EXTENT PRACTICAL, WITHIN THE CRITICAL ROOT ZONE OF TREES TO AVOID DAMAGE TO THE TREE'S ROOT SYSTEM. THE CONTRACTOR SHALL DIRECTIONAL BORE UTILITY LINES OR HAND DIG UTILITY LINES WITHOUT DAMAGING ROOTS.	PERMITS: CONTRACTOR SHALL UTILIZE THE STORM WATER POLLUTION PREVENTION PLAN AND SHALL OBTAIN ALL PERMITS AND FULFILL ALL PERMIT REQUIREMENTS, INCLUDING FEES, FOR T.C.E.Q. GENERAL PERMIT NO. TXR 150000 RELATING TO DISCHARGES FROM CONSTRUCTION ACTIVITIES. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO NOTICE OF INTENT (NOI, REQUIRED SITE POSTINGS AND NOTICE OF TERMINATION (NOT). ALL ACTIVITIES WILL BE PERFORMED AT THE MILESTONES REQUIRED BY THE T.C.E.Q. NO SEPARATE PAYMENT WILL BE MADE FOR SUCH PERMITS.	REVISION NO. DATE	C23			



BEST MANAGEMENT PRACTICES NOTES:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR PREPARATION OF A SWPPP AND FILING A NOTICE OF INTENT WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) AND OBTAINING A TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) PERMIT. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE TPDES PERMIT ON SITE AT ALL TIMES DURING CONSTRUCTION.
- 2. THE CONTRACTOR SHALL ABIDE BY THE PROVISIONS OF TCFQ STORM WATER POLLUTANT DISCHARGE FLIMINATION SYSTEM REGULATIONS CONCERNING PERMITS FOR CONSTRUCTION ACTIVITIES, INCLUDING IMPLEMENTATION OF THE POLLUTION PREVENTION PLAN AND BEST MANAGEMENT PRACTICES.
- 3. FUELING AND MAINTENANCE OF VEHICLES AND EQUIPMENT SHALL BE PERFORMED IN COMPLIANCE WITH EPA AND ALL OTHER FEDERAL AND STATE REGULATIONS.
- ALL TEMPORARY EROSION/SEDIMENTATION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING ADEQUATE FROSION. SEDIMENTATION CONTROL MEASURES TO PROTECT ADJACENT PROPERTIES. STORM SEWERS AND DRAINAGEWAYS.
- 5. NATURAL AND CULTIVATED VEGETATION SHALL BE LEFT UNDISTURBED AS MUCH AS POSSIBLE.
- 6. THE CONTRACTOR SHALL CONSTRUCT STRUCTURAL BEST MANAGEMENT PRACTICES AS NEEDED AND AS REQUIRED TO PREVENT SILT AND DEBRIS FROM ENTERING INTO THE STORM SEWER SYSTEM.
- THE CONTRACTOR SHALL CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES AT SUFFICIENT LOCATIONS (AS NEC.) TO PREVENT VEHICLES AND EQUIPMENT FROM TRACKING MUD ONTO EXISTING STREETS.
- 8. THE CONTRACTOR SHALL BE REQUIRED TO SPRINKLE FOR DUST CONTROL AS DIRECTED BY THE OWNER'S
- 9. THE CONTRACTOR SHALL INSPECT TEMPORARY EROSION/SEDIMENTATION CONTROLS PERIODICALLY TO ENSURE THAT THE CONTROLS HAVE NOT BEEN SIGNIFICANTLY DISTURBED. ANY SEDIMENT OR DEBRIS THAT HAS ACCUMULATED SHALL BE REMOVED AND PLACED IN A DESIGNATED SPOILS DISPOSAL SITE.
- 10. ALL TREES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED DURING CONSTRUCTION WITH TEMPORARY FENCING OR OTHER APPROVED MEANS. WHERE CONDITIONS PREVENT INSTALLING TEMPORARY FENCING AT LEAST 4 FEET FROM THE TREE TRUNK, THE CONTRACTOR SHALL PROTECT THE TREE TRUNK WITH STRAPPED-ON PLANKING.
- 11. THE CONTRACTOR SHALL NOT USE MECHANICAL EXCAVATORS, TO THE MAXIMUM EXTENT PRACTICAL, WITHIN THE CRITICAL ROOT ZONE OF TREES TO AVOID DAMAGE TO THE TREE'S ROOT SYSTEM. THE DIRECTIONAL BORE UTILITY LINES OR HAND DIG UTILITY LINES WITHOUT DAMAGING ROOTS.
- 12. ALL DISTURBED AREAS SHALL BE RESTORED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. A MINIMUM OF 4 INCHES OF TOPSOIL SHALL BE PLACED IN ALL DISTURBED AREAS. THE CONTRACTOR SHALL BEGIN RESTORATION AS SOON AS FINAL SHAPING OR USE OF THE AREA IS COMPLETE, PRIOR TO FINAL COMPLETION OF ALL IMPROVEMENTS. RESTORATION SHALL INCLUDE HYDRO MULCHING, SEEDING OR SODDING, FERTILIZING, FIBER MULCHING AND WATERING. RESTORATION SHALL BE ACCEPTABLE ONLY WHEN THE GRASS HAS REACHED A HEIGHT OF AT LEAST 1 INCH WITH 85 PERCENT COVERAGE, AND NO BARE SPOTS GREATER THAN 10 SQUARE FEET EXIST.
- 13. ALL NEW GRASS SOD AREAS SHALL BE IRRIGATED OR SPRINKLED IN A MANNER WHICH WILL NOT ERODE THE TOPSOIL BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF 6 INCHES.

CONTRACTOR/OPERATOR IS RESPONSIBLE FOR PREPARATION AND IMPLEMENTATION OF A SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH TEQ REQUIREMENTS
PRIOR TO COMMENCING WORK. THE SWPPP SHOULD INCLUDE THIS SHEET TO DEFINE THE TYPE AND LOCATION OF PROPOSED BMP'S.





DEBRIS BOOM & SILT CURTAIN NOTES:

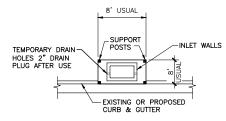
- DEBRIS BOOM/SILT CURTAIN SHALL BE INSTALLED AROUND THE WETTED PERIMETER OF ALL ACTIVE DEMOLITION, EXCAVATION, FILLING AND MATERIAL OFF LOADING WORK AREAS
 CONTRACTOR SHALL MAINTAIN THE BOOM THROUGHOUT DURATION OF ALL IN WATER CONSTRICTION
 ACTIVITY. ACTIVITIES

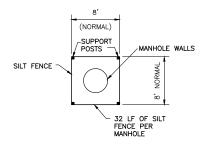
- ACTIVITIES.

 3. ALL CONTRACTOR VESSELS SHALL BE MOORED INSIDE THE BOOM. SILT CURTAINS SHALL BE DEPLOYED AROUND EXACTION AND OFFLOADING WORK AREAS AS DIRECTED BY WATER QUALITY REQUIREMENTS.

 4. DURING MATERIAL DEWATERING OPERATIONS, THE CONTRACTOR SHALL IMPALEMENT SEDIMENT CONTROL BMPS (SLIT FENCE, MULCH SOCKS, OR APPROVED EQUIVALENT) TO MANAGE SEDIMENT RUNOFF.

 5. ALL EXCAVATION AND FILLING ACTIVITIES SHALL BE CONDUCTED IN A MANNER THAT WILL MINIMIZE TURBIDITY AND SEDIMENTATION. THE CONTRACTOR IS RESPONSIBLE FOR MONITORING TURBIDITY LEVELS DURING EXCAVATION AND FILLING ACTIVITIES TO MINIMIZE TURBIDITY.





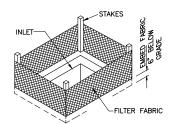
TYPICAL SILT FENCE INSTALLATION AT

CURB INLET PRIOR TO PLACEMENT OF CURB AND INLET TOP.

CURB INLET - PLAN

NOT TO SCALE

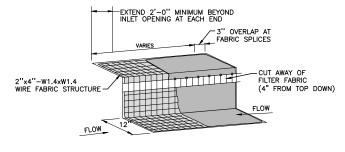
MANHOLE - PLAN



NOTES:

- FILTER FABRIC INLET PROTECTION SHALL BE USED DURING CONSTRUCTION TO CONTROL SEDIMENTATION.
- 2. PERIMETER SILT FENCING AROUND INLET LOCATIONS SHALL BE INSTALLED AFTER PIPE IS PLACED.
- . FABRIC MATERIAL SHALL BE A NET—REINFORCED FENCE, USING WOVEN GEOTEXTILE FABRIC.
- 4. FENCE SHOULD BE REMOVED UPON COMPLETION OF

TEMPORARY FILTER FABRIC INLET PROTECTION DETAIL NOT TO SCALE

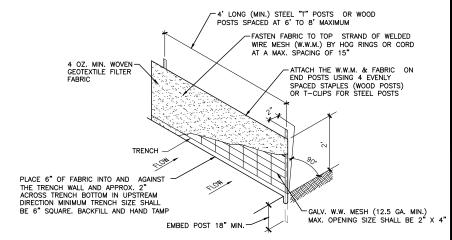




CURB INLET PROTECTION DETAIL C24 C25

CURB INLET PROTECTION NOTES:

- 1. TO HOLD THE FILTER DIKE IN PLACE, 20 LB SANDBAGS SHALL BE USED AT 3' O.C. WHERE MINIMUM TO HOLD THE FILTER DIKE IN PLACE, 20 LB SANDBAGS SHALL BE USED AT 3' O.C. WHERE MINIMUM CLEARANCES CAUSE TRAFFIC TO DRIVE IN THE GUTTER, THE CONTRACTOR MAY SUBSTITUTE A 1"X4" BOARD, SECURED WITH 1/4" OR 3/8" CONCRETE SCREWS. THE 1/4" OR 3/8" CONCRETE SCREWS SHALL BE ATTACHED TO THE GUTTER BY DRILLING AN APPROPRIATE PILOT HOLE WITH A CONCRETE BIT AND INSERT PLASTIC FASTENERS. THE TOP OF THE SCREW SHALL BE RECESSED BELOW THE TOP OF THE BOARD. THE SCREWS SHALL BE PLACED ON 3' O.C. THIS METHOD IS USED IN LIEU OF SANDBAGS, IN THE GUTTER ONLY, TO HOLD THE FILTER DIKE IN PLACE. UPON REMOVAL, EITHER LEAVE THE PLASTIC FASTENERS, IN PLACE, OR REMOVE THE PLASTIC FASTENERS, CLEAN ANY DIRT/DEBRIS FROM THE SCREW LOCATIONS, APPLY CHEMICAL SANDING AGENT AND APPLY CONDUCTIONS OF THIS METHOD SALVEN OF A STANDARD CONTRACT OF THE METHOD SALVEN OF THE SIESTED OF THE SIESTED OF THE SALVEN OF THE SIESTED OF THE SIESTED OF THE SALVEN OF THE SIESTED OF THE SALVEN OF THE SALVEN OF THE SIESTED OF THE SALVEN OF NON-SHRINK GROUT FLUSH WITH THE SURFACE OF THE GUTTER. THIS METHOD SHALL NOT BE USED ON THE INLET IN LIEU OF SANDBAGS
- A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL OR AS DIRECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION.
- DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2". INLET PROTECTION SHALL BE REPLACED AS NECESSARY DURING CONSTRUCTION DUE TO DAMAGE OR DETERIORATION (SUBSIDIARY TO INLET PROTECTION).
- CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND ONLY REMOVE INLET PROTECTION IF DIRECTED BY THE CITY OF PORTLAND, OR IF CONTRACTOR OBSERVES AN IMMINENT THREAT OF FLOODING OF SURROUNDING PROPERTY.
- 5. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.



SYMBOL: ---SCF---

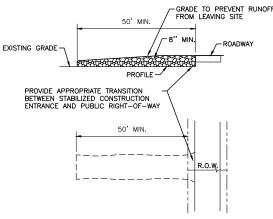
TEMPORARY SEDIMENT CONTROL FENCE DETAIL

SEDIMENT CONTROL FENCE USAGE GUIDELINES:

SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED.

SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAX. FLOW THROUGH RATE OF 100 GPM/FT. SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE LARGER THEN 2 ACRES.

* THE GUIDELINES SHOWN HERE ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.



PLAN STABILIZED CONSTRUCTION ENTRANCE C24 C25

CONSTRUCTION ENTRANCE NOTES:

- STONE SIZE: 3-5" OPEN GRADED ROCK.
- 2. LENGTH: AS EFFECTIVE BUT NOT LESS THAN 50'.
- 3. THICKNESS: NOT LESS THAN 8".
- 4. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
- 4. WIDHS: NOT LESS IMAIN FOLL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
 5. WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOF TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OF WATERCOURSE USING APPROVED METHODS.
- . MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENTS THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
- DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

PROJECT No.: C275-21184





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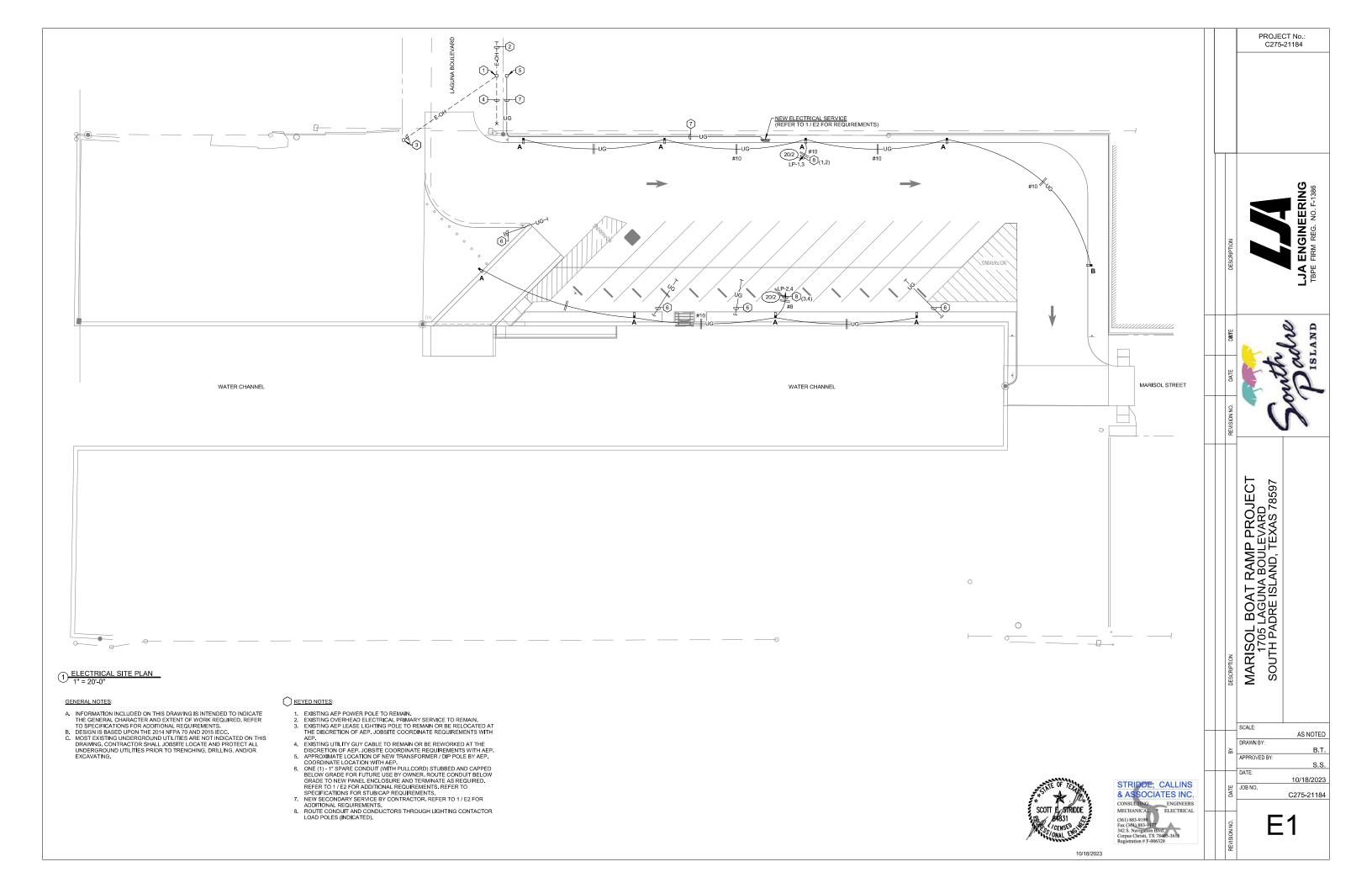
POLLUTION LAN DETAILS 띪 ORMWA

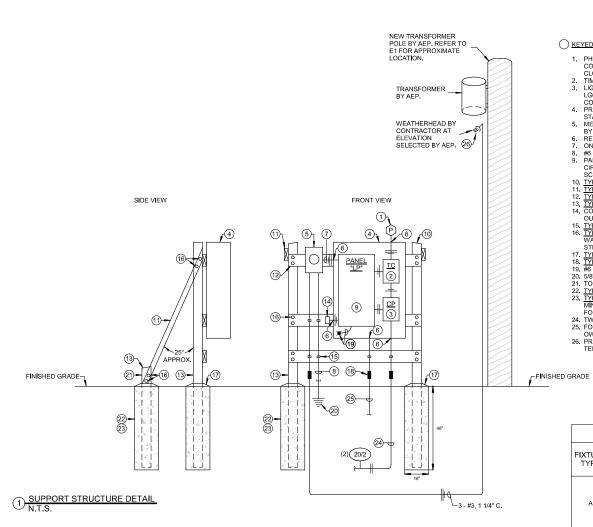
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12/22/2023 JOB NO. C275-21184





KEYED NOTES: (support structure detail)

PHOTO-ELECTRIC SENSOR SHALL BE INTERMATIC CAT. NO. K4421M. SERIES CONNECT WITH TIME CLOCK AS REQUIRED FOR PHOTOCELL "ON" / TIME CLOCK "OFF" OPERATION.
 TIME CLOCK "TO" SHALL BE INTERMATIC CAT. NO. T171CR.

CLOCK "OFF" OPERATION.

2. TIME CLOCK "TC" SHALL BE INTERMATIC CAT. NO. T171CR.

3. LIGHTING CONTACTOR "CP" SHALL BE SQUARE D. CLASS 8903. TYPE LG60V02CP1. CONNECT CONTROL COIL TO LOAD SIDE OF TIME CLOCK CONTACT.

4. PROVIDE ONE (1) - HOFFMAN CAT. NO. WS483616SS (48"H. X 36"W. X 16"D.) STANILESS STEEL RAINTIGHT LOCKABLE ENCLOSURE WITH VENTED DOOR.

5. METER CAN (BY CONTRACTOR) FOR FEED THRU SELF CONTAINED METER BY AEP.

6. REFER TO 2/E2 FOR TERMINATION REQUIREMENTS.

7. ONE (1) - 11/2" CONDUIT WITH THREE (3) - #3, #6 GROUND.

8. #6 GROUND, 1/2" CONDUIT.

9. PANE. "L" SYALL BE RACK MOUNTED, 120/240V. 10, 3W., 100A. MAIN CIRCUIT BREAKER, SQUARE D TYPE NO PANELBOARD, REFER TO PANEL SCHEDULE FOR CIRCUIT BREAKER QUANTITIES AND ARRANGEMENT.

10. TYPICAL: CLIT POST TOP WITH MINIMUM 10" PITCH.

11. TYPICAL: 2" X 8" PTP TOE BRACE.

12. TYPICAL: 2" X 8" PTP LATERAL SUPPORT.

13. TYPICAL: STANILESS STEEL TWO (2) HOLE CONDUIT STRAP.

14. COMMERCIAL GRADE, 120V. 20A, GFCI RECEPTACLE IN DIRECT ALUMINUM OUTLET BOX WITH SPECIFIED COVERPLATE.

15. TYPICAL: STAINLESS STEEL ALL-THREAD WITH NUT / FLAT WASHER FRONT AND BACK (ALL 316 STAINLESS STEEL), 316 STAINLESS STEEL BOLTS MAY BE SUBSTITUTED.

17. TYPICAL: CHAMFER PERIMETER.

18. TYPICAL: CHAMFER PERIMETER.

19. #6 GROUND, GROUND BOND / LUG TO ENCLOSURE.

20. 56" X 8" COPPER GROUND ROD.

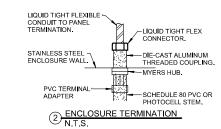
21. TYPICAL: PROVINGE (8) #T VERTICAL BARS WITH #3 HOOP TIES 12" O.C. WITH MINIMUM CONCRETE COVER OVER STEEL OF 2 1/2". SET POST INSIDE FOOTING STEEL.

MINIMUM CONCRETE COVER OVER STEEL OF 2 1/2*. SET POST INSIDE FOOTING STEEL.

24. TWO (2) CONDUITS TO POLE MOUNTED LIGHTING FIXTURES.

25. FOUR (4) - SPARE CONDUIT STUBBED BELOW GRADE FOR FUTURE USE BY OWNER. REFER TO ELFOR STUB LOCATION.

26. PROVIDE 3' LENGTH OF CONDUCTORS BEYOND WEATHERHEAD FOR TERMINATION BY AEP.



	LIGHTING FIXTURE SCHEDULE										
FIXTURE	CATALOG REFERENCE	LAMPS	DRIVER		FINISH		REMARKS				
TYPE	CATALOG REFERENCE	LAWFS	VOLTAGE	BODY	DIFFUSER	KLIMAKKS					
А	LITHONIA CAT. NO. DSX2 LED P4 30K 80CRI T5M RPA PIR HS CCE DNAXD	L.E.D. FURNISHED 273 [W], 30K	MVOLT	NATURAL ALUMINUM	PRECISION MOLDED ACRYLIC	POLE	PROVIDE WITH HOUSE SIDE SHELD. COASTAL CONSTRUCTION (GREY NATURAL EXPOSED AGRECATE FINSH WITH AMERSHIELD COATING) AND AMERON POLE PRODUCTS CAT. NO. MBR07SPL 20-0" (113) MEDIUM BASE PLATED ROUND POLE. REFER TO SPECIFICATIONS FOR POLE REQUIREMENTS. FIXTURE EMBEDDED MOTION / AMBIENT SENSOR SHALL BE PROGRAMMED TO REDUCE LIGHT OUTPUT BY 30% WHEN NO MOTION IS DETECTED AFTER 15 MINUTES FROM DUSK TO DAWN.				
В	LITHONIA CAT, NO, DSX2 LED P4 30K 80CRI T2M RPA PIR HS CCE DNAXD	L.E.D. FURNISHED 273 [W], 30K	MVOLT	NATURAL ALUMINUM	PRECISION MOLDED ACRYLIC	POLE	PROVIDE WITH HOUSE SIDE SHIELD, COASTAL CONSTRUCTION (GREY NATURAL EXPOSED AGGREGATE FINISH WITH AMMERSHIELD COATING) AND AMERON POLE PRODUCTS CAT. NO. MBR07SPL 20-0" (131) MEDIUM BASE PLATED ROUND POLE. REFER TO SPECIFICATIONS FOR POLE REQUIREMENTS. FIXTURE EMBEDDED MOTION / AMBIENT SENSOR SHALL BE PROGRAMMED TO REDUCE LIGHT DUTPUT BY 30% WHEN NO MOTION IS DETECTED AFTER15 MINUTES FROM DUSK TO DAWN.				

									PANELBOAR	RD SCHEDUL	.E								
JOB:	MARISOL BOAT RAMP	_	CABINET:	SURFACE	_	MAINS:	BREAKER			VOLTAGE:	120/240		SINGLE	PHASE		CAPACITY:	100 A.		
PANEL:	LP	_	SPECIAL F	EATURES:	SQUARE D	, TYPE NQ P	ANELBOARD	IN NEMA-3R	ENCLOSURE							_			
СКТ	LOAD	C/B	LIGHTING	MISC 1Ø	MISC. EQPM.	KITCHEN EQPM.	WELDING EQPM.	A/C COOLING	A/C HEATING	СКТ	LOAD	C/B	LIGHTING	MISC 1Ø	MISC. EQPM.	KITCHEN EQPM.	WELDING EQPM.	A/C COOLING	A/C HEATING
1	LIGHTING - NORTH	20/2	1,365							2 4	LIGHTING - SOUTH	20/2	1,095						
5	TIME CLOCK - P.E.S.	20/1		20						6	RECEPTACLE - RACK	20/1		200					
7	SPARE	20/1								8	SPARE	20/1							
9	SPARE	20/1								10	SPARE	20/1							
11	SPARE	20/1								12	SPARE	20/1							
13	SPACE									14	SPACE								
15	SPACE									16	SPACE								
17	SPACE									18	SPACE								
19	SPACE									20	SPACE								
21	SPACE									22	SPACE								
23	SPACE									24	SPACE								
25	SPACE									26	SPACE								
27	SPACE									28	SPACE								
29	SPACE									30	SPACE								
		SUBTOTAL	1,365	20	0	0	0	0	0			SUBTOTAL		200	0	0	0	0	0
												TOTAL LOAD		220	0	0	0	0	0
													W=> DIV	220	W=> D I V	0	0		
															TO.	TAL CONNECT	ED LOAD (VA) 2,	680
																DEMA	ND LOAD (VA	2,	580
																AMPA	CITY DEMAND	11	.2 A

	ELECTRICAL LEGEND
SYMBOL	DESCRIPTION
	- RACEWAY WITH NUMBER OF CONDUCTORS INDICATED
—IG	- RACEWAY IN CONCRETE FLOOR SLAB AND/OR WALLS WITH NUMBER OF CONDUCTORS INDICATED
— ug —	- UNDERGROUND RACEWAY
LA1,2	PANEL AND CIRCUIT NUMBERS
l <i>1</i>	ARROWS INDICATE HOME RUN TO PANEL
→ 1'-	CONDUIT SIZE IF INDICATED
30/2	BRANCH CIRCUIT BREAKER SIZE IN PANEL INDICATED IF OTHER THAN 1P20A
\ <u> </u>	-NEUTRAL CONDUCTOR
\(\nabla_{\sigma} \)	NUNGROUNDED CONDUCTORS
#10	CONDUCTOR SIZE INDICATED IF OTHER THAN NO. 12 AWG
""_	CONDUCTORS SHALL BE SIZE INDICATED FOR ENTIRE LENGTH OF CIRCUIT
—с—	- CONTROL SYSTEM RACEWAY AND/OR CONDUCTORS - REFER TO SPECIFICATIONS FOR REQUIREMENTS
	CONDUIT CONTINUATION TO POINT NOTED
	ELECTRICAL BRANCH CIRCUIT PANEL AS NOTED
WP	WEATHERPROOF DEVICE OR ENCLOSURE
-	CEILING OUTLET WITH FIXTURE AS SCHEDULED
c⊠R	CONTACTOR - C, RELAY - R
ㅁ	DISCONNECT SWITCH
P	PHOTOELECTRIC SWITCH - REFER TO DRAWING NOTES FOR REQUIREMENTS
Т	CONTROL TIME CLOCK - REFER TO DRAWING NOTES FOR REQUIREMENTS
000	JUNCTION BOX
Ø	120 VOLT SINGLE PHASE CONNECTION TO EQUIPMENT NOTED
⊕	208 VOLT OR 240 VOLT SINGLE PHASE CONNECTION TO EQUIPMENT NOTED
l ⊗	CONTROL OUTLET AND CONNECTIONS AS REQUIRED



10/18/2023

& ASSOCIATES INC. ENGINEERS

APPROVED BY 10/18/2023 JOB NO. C275-21184 **E2**

SCALE:

DRAWN BY

AS NOTED

B.T.

S.S.

MARISOL BOAT RAMP PROJECT 1705 LAGUNA BOULEVARD SOUTH PADRE ISLAND, TEXAS 78597

PROJECT No.: C275-21184

CONSTRUCTION PLANS FOR

LANDSCAPE & IRRIGATION



MARISOL BOAT RAMP

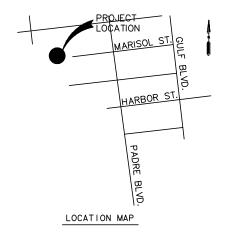
CITY OF SOUTH PADRE ISLAND CAMERON COUNTY, TEXAS

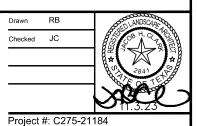
JOB NO. C275-21184

DATE: NOVEMBER 03, 2023

INDEX OF DRAWINGS

L-0.0	GENERAL NOTES
L7-00	LANDSCAPE PLAN
L8-01	LANDSCAPE DETAILS
L9-00	IRRIGATION PLAN
L10-01	IRRIGATION DETAILS





Date: NOVEMBER 03, 2023

APPROVED FOR CONSTRUCTION

____ DATE __



IRRIGATION NOTES

- A. Except as otherwise provided, the contractor shall procure all permits and licenses, pay all charges & fees and give all notices necessary & incidental to the due lawful prosecution of the work.
- B. The contractor shall follow the local municipal Public Works specifications for hot taps & installation of irrigation system.
- C. The contractor shall notify pertinent utility companies 48 hours prior to construction for current utility locations. Extreme care shall be exercised in excavating and working near existing utilities. The contractor shall verify the location & condition of all utilities and be responsible for any damage to such.
- D. The contractor shall not willfully install the sprinkler system as shown on the drawings when it is obvious in the field that obstructions, grade differences or differences in the area's dimensions exist that might not have been considered in the engineering. Such obstructions or differences shall be brought to the attention of the Owner. In the event this notification is not performed, the irrigation contractor shall assume full responsibility for any revisions necessary.
- E. The drawings are diagrammatic. All irrigation mainlines, lateral lines, valves, wire, and fittings shall be placed in landscape areas. Gate valves, and remote control valves shall be placed in shrub beds whenever possible.
- F. Avoid existing or future locations of trees and tree root balls when laying pipe.
- G. The contractor shall clearly mark all exposed excavations, materials and equipment. Cover or barricade trenches when the contractor is not on site.
- H. The contractor shall adjust the arc angle of the irrigation heads for even cover. Head layout shall be head to head coverage. All nozzles shall have matching precipitation rates.
- . The contractor shall at all times protect his work from damage and theft. In the event of damage or theft, the contractor shall replace all damaged or stolen parts until the work is accepted in writing by Owner.

LANDSCAPE NOTES

- A. The contractor shall supply photos or samples of each plant species indicated on the planting legend, to Landscape Architect, to serve as min. requirements of each species type.
- B. The contractor shall obtain an agricultural soils analysis by an approved lab for soils amendments and planting media recommendations, provide one copy to the Landscape Architect for approval prior to installation of soil mix.
- C. The contractor shall be responsible for verifying all utility locations in the field prior to installation and shall be responsible for any damage to utilities.
- D. Tree material shall be planted a min. of 3' from walkways, streets, or buildings unless otherwise noted on the drawings.
- The contractor shall stake all tree locations and planting beds, and verify limits of turf in the field for approval by the Landscape Architect prior to installation.
- F. Finish grade of all planting beds adjacent to buildings shall have a min. of 4-6' clearance from top of slab.
- G. Existing soil shall be removed from planting holes, see specifications for appropriate backfill mix.
- H. Stabilize soil below root ball prior to planting to prevent tree or shrub from settling.
- The contract or is responsible for fine grading any areas disturbed by construction on site.
- J. Contractor to repair or replace all disturbed turf areas from landscape construction outside and within limit of work, with solid sod of matching existing species.



Key Map

MARISOL BOAT RAMP

LANDSCAPE & IRRIGATION DRAWINGS

THE CITY OF SOUTH PADRE ISLAND, CAMERON COUNTY, TEXAS

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Project #: C275-21184

Date: NOVEMBER 03, 2023

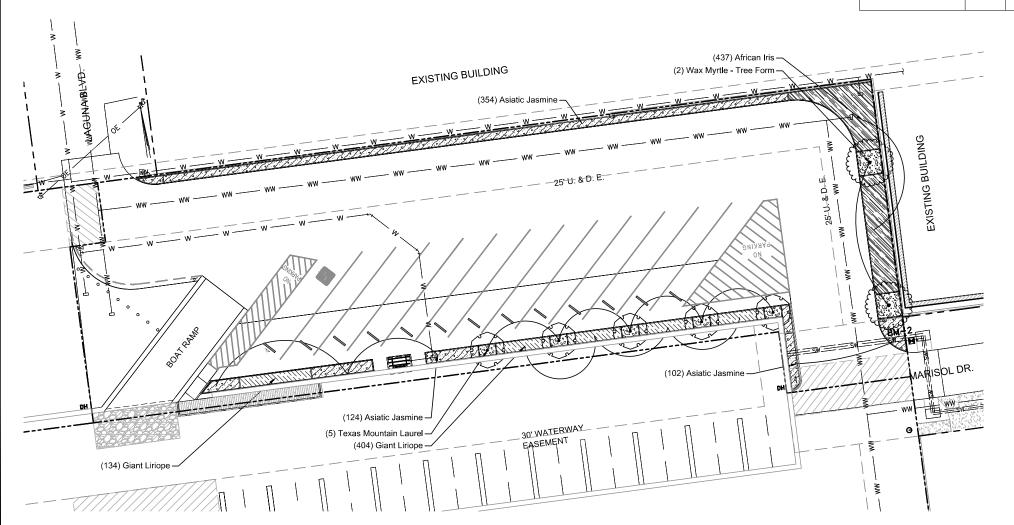
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Sheet Title:
GENERAL NOTES

LO-00



PLANT SCHEDU	LE							
TREES	CONT	CAL	HEIGHT	SPREAD	SPACING		QTY	REMARKS
Texas Mountain Laurel	45 gal	2"		6`	4`		5	Container Grown, Well Rooted, Full Straight Trunk
EVERGREEN TREES	CONT	CAL	HEIGHT	SPREAD	SPACING		QTY	REMARKS
Wax Myrtle - Tree Form	30 gal		8` - 10`	6` - 8`			2	Multi trunk, matching, container grown
				<u>'</u>			'	-
GROUND COVERS	CONT	HEIGHT	SPREAD			SPACING		
African Iris	3 gal	24"	12"			18" o.c.	437	full pot, container grown
Asiatic Jasmine	flat	4"	6"			18" o.c.	580	full pot, container grown
Giant Liriope	1 gal	8"	8"			12" o.c.	538	full pot, container grown
		'		'	'		'	1
MISCELLANEOUS	CONT	HEIGHT	SPREAD			SPACING		
Blackstar Gravel	SF						343 sf	4" Depth; Installed Complete, Refer to Details and



PLANT SCHEDULE

COMMON NAME

Texas Mountain Laurel

EVERGREEN TREES COMMON NAME



Wax Myrtle - Tree Form

GROUND COVERS

COMMON NAME



African Iris



Asiatic Jasmine



Giant Liriope



COMMON NAME



Blackstar Gravel



LANDSCAPE & IRRIGATION DRAWINGS

THE CITY OF SOUTH PADRE ISLAND, CAMERON COUNTY, TEXAS

0	10	20				40ft
	_					
Dra	wing	Scale	is	1"	=	20'

Drawn	RB	B.	COLAND COLAND	SCAPE	S.
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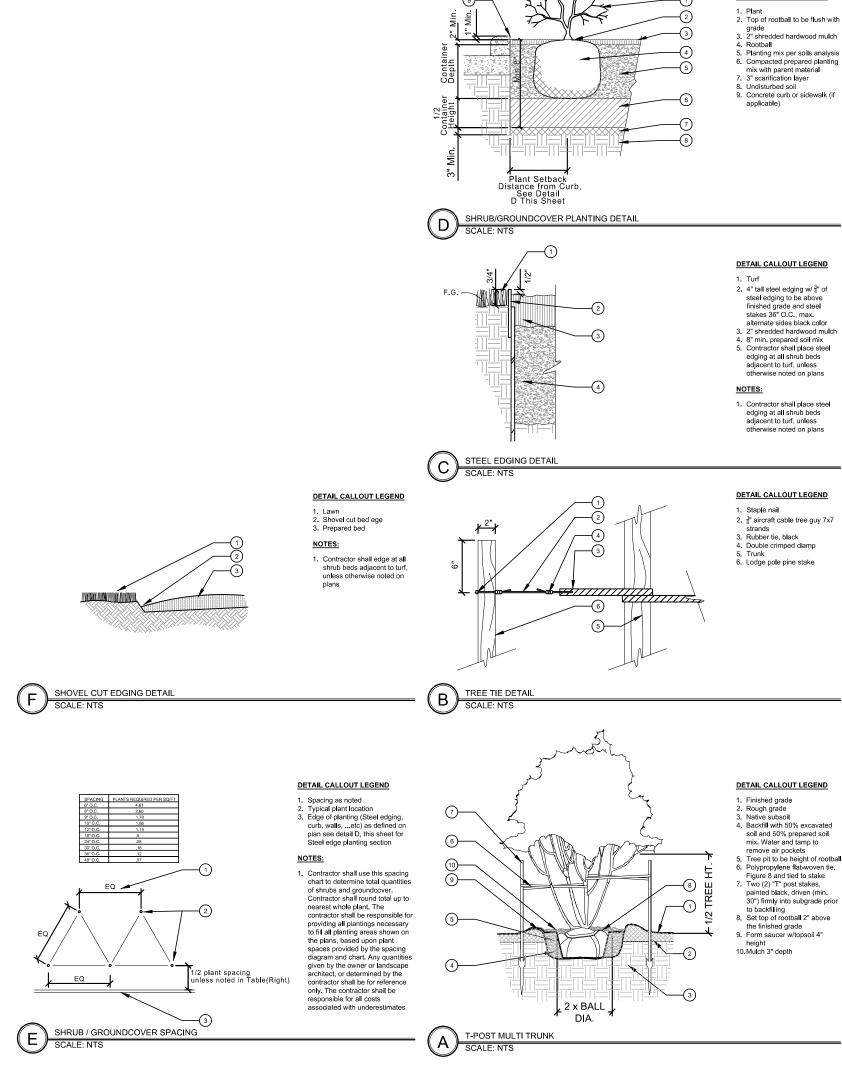
Project #: C275-21184

Date: NOVEMBER 03, 2023

Sheet Title:

LANDSCAPE LAYOUT

L7-00



DETAIL CALLOUT LEGEND

- Plant
 Top of rootball to be flush with

- Top of rootball to be flush with grade
 2" shredded hardwood mulch
 Rootball
 Planting mix per soils analysis
 Compacted prepared planting mix with parent material
 3" scarification layer
 Undisturbed soil
 Concrete curb or sidewalk (if applicable)



DRAWINGS



Date: NOVEMBER 03, 2023

DETAIL CALLOUT LEGEND

1. Finished grade
2. Rough grade
3. Native subsoil
4. Backfill with 50% excavated soil and 50% prepared soil mix. Water and tamp to remove air pockets
5. Tree pit to be height of rootball
6. Polypropylene flat-woven tie, Figure 8 and tied to stake
7. Two (2) "T" post stakes, painted black, driven (min. 30") firmly into subgrade prior to backfilling
8. Set top of rootball 2" above the finished grade
9. Form saucer witopsoil 4" height

height 10. Mulch 3" depth

MARISOL BOAT RAMP LANDSCAPE & IRRIGATION

THE CITY OF SOUTH PADRE ISLAND, CAMERON COUNTY, TEXAS 1. Contractor shall place steel edging at all shrub beds adjacent to turf, unless otherwise noted on plans

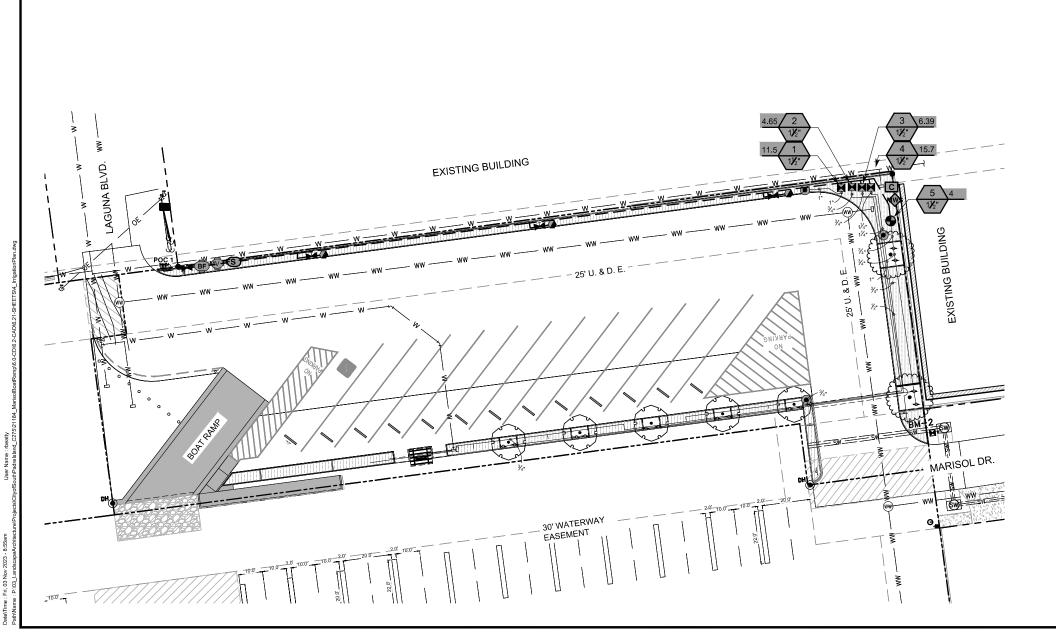
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Project #: C275-21184

LANDSCAPE DETAILS

L8-01





IRRIGATION S	SCHEDULE	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
25 50 10 20	Hunter PROS-06-PCN Flood Bubbler, 6.0" pop-up.	14
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
X	Hunter ICZ-151-40 Drip Control Zone Kit. 1-1/2" ICV Globe Valve with 1" HY100 filter system. Pressure Regulation: 40psi. Flow Range: 20 GPM to 60 GPM. 120 mesh stainless steel screen. 1-1/2" inlet x dual 1" outlets	4
•	Pipe Transition Point in Drip Box Pipe transition point from PVC lateral to drip tubing with riser in 6in. drip box.	3
	Area to Receive Dripline Hunter HDL-09-12-PC HDL-09-12-PC: Hunter Dripline with 0.9 GPH flow. Light brown tubing with black striping. Emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. Install with Hunter PLD barbed or PLD-LOC fittings.	2,710 I.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
•	Hunter ICV-G - Remote Control Valve 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	1
•	Hunter HQ-44LRC-AW Quick coupler valve, yellow rubber locking cover, red brass and stainless steel, with 1in. NPT inlet, 2-piece body. Acme Key with Anti-Rotation Wings.	3
×	LASCO Fittings TUBV-SC 1", 1-1/2", 2", and 3" Plastic Full Block True Union Ball Valve. Shut Off/Isolation Valve to Eliminate Water Hammer. Install same size as mainline.	4
•	Hunter Master Valve ICV-G 1-1/2" 1", 1-1/2", 2", and 3" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	1
•	Hunter Master Valve ICV-G 1-1/2" 1", 1-1/2", 2", and 3" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	1
BF	Febco 825Y 1-1/2" Reduced Pressure Backflow Preventer	1
С	Hunter PHC-1200 Wi-Fi enabled, full-functioning controller with touchscreen, 12-Station fixed controller, 120 VAC, Outdoor model.	1
N	Hunter MWS-FR Weather Station with rain sensor, wind sensor and freeze sensor, 120 VAC, 5 amp. 5 year warranty.	1
•	Hunter FLOW-CLIK-200 Flow Sensor SOV with Interface Panel, 2" Schedule 40 Sensor Body, 24 VAC, 2 amp, install Interface Panel as required.	1
P <u>ዕ</u> ር 1	Point of Connection 3" CONNECT PROPOSED ISOLATION VALVE, BACKFLOW, MASTER VALVE, AND FLOW SENSOR TO EXISITNG WATER METER.	1
	Irrigation Lateral Line: PVC Schedule 40	888.6 I.
	Irrigation Mainline: PVC Schedule 40	367.8 I.:
=======	Pipe Sleeve: (2) 6" PVC Sleeves - Schedule 40	62.8 l.f.

MARISOL BOAT RAMP

LANDSCAPE & IRRIGATION DRAWINGS

THE CITY OF SOUTH PADRE ISLAND, CAMERON COUNTY, TEXAS

DATE	ISSUE	

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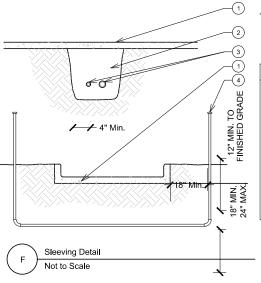


Project #: C275-21184

Date: NOVEMBER 03, 2023

Sheet Title:
IRRIGATION LAYOUT

L9-00



DETAIL CALLOUT LEGEND

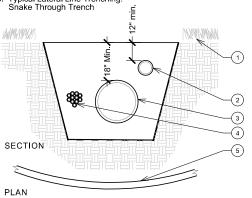
- Sleeves
 PVC Cap, Typ.

Notes:

- All PVC Irrigation
 Sleeves To be Sch. 40
 PVC Pipe.
 All Elbows To Be lose fit
- and watertight. Where There Is More
- Than One Sleeve. Extend The Smaller Sleeve 12"
- Minimum
 Above Finished Grade.
 Mechanically Tamp soil
 around each sleeve To
 95% Proctor.

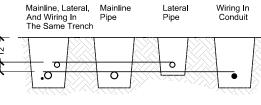
DETAIL CALLOUT LEGEND

- Finished Grade.
 Lateral Line Size As Per Plan.
 Mainline Size as Per Plan.
 Tubing Or Wiring: Tape And Bundle At 10-0" Intervals.
- 5. Typical Lateral Line Trenching: Snake Through Trench



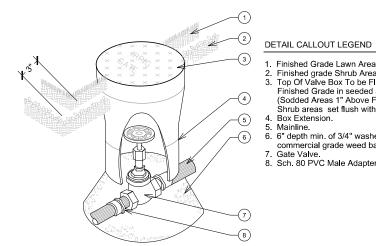
Wiring In Trench Not to Scale

SECTION VIEW



DETAIL CALLOUT LEGEND

Run Wiring Above or Beside
 Mainline. Tape And Bundle At 10Ft
 Intervals.
 All Solvent Weld Plastic Piping To
 Be Snaked In Trench As Shown.
 Tie 24" Loop In All Wiring At
 Changes Of Direction Of 30° Or
 Greater. Untie After all
 Connections Have Been Made.

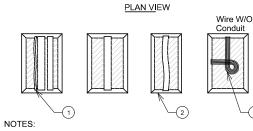


Gate Valve Not to Scale 5. Mainline.6. 6" depth min. of 3/4" washed gravel with commercial grade weed barrier

. Finished Grade Lawn Areas. Finished grade Shrub Areas.
Top Of Valve Box To be Flush With

7. Gate Valve.
8. Sch. 80 PVC Male Adapter

Finished Grade in seeded areas (Sodded Areas 1" Above Finished Grade, Shrub areas set flush with top of mulch).



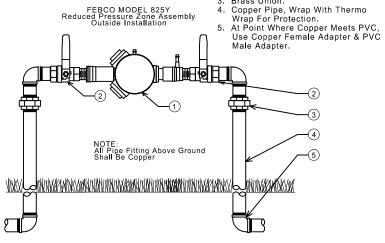
Sleeve Below All Hardscape Elements With Class 200PVC Twice The Diameter Of The Pipe Or Wire Bundle Within.
 For Pipe And Wire Burial Depths See Specifications.

Pipe & Wire Trenching

Not to Scale

DETAIL CALLOUT LEGEND

- . Reduced Pressure Zone Assembly . Gate Valves.
- Brass Union.

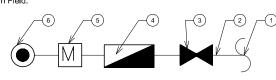


BACKFLOW PREVENTION

Not to Scale

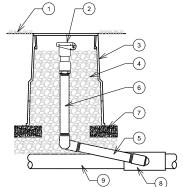
DETAIL CALLOUT LEGEND

- 1. To Valves.
 2. Irrigation Mainline
 (See Legend For Size).
 3. Gate Valve or Master Valve (Mainline Size) (See plan).
 4. Backflow Prevention As Approved
- Per City Requirements.
- Water Meter As Approved Per City Requirements.
 Point Of Connection. Verify Location In Field.



See Irrigation Legend For Full Details, Sizing And Requirements.

Typical Diagram - Point of Connection Not to Scale



DETAIL CALLOUT LEGEND

- 1. Finished Grade/Top of Mulch. Quick Coupling Valve:
 Hunter HQ-33DLRC-R 3/4", Two Piece Body with 3/4"
- inlet and 3/4" key outlet

 3. Valve Box with purple cover

 4. 6" depth min. of 3/4" washed gravel with commercial grade weed
- barrier
 5. Hunter HSJ-0 Series Swing Joint,
- size as required
 6. PVC Sch. 80 Nipple 3/4"
- (Length as Required)
 7. Brick Supports (2)
 8. PVC Sch. 40 Tee Or Ell. 3/4" etc.
- 9. PVC Mainline Pipe.

NOTE: Furnish fittings and piping nominally sized identical to nominal quick coupling valve inlet size.

HQ33 Quick Coupling Valve Not to Scale

L9-01

IRRIGATION DETAILS

Planning + Landscape

Architecture

MARISOL BOAT

LANDSCAPE & IRRIGATION

THE CITY OF SOUTH PADRE ISLAND,

CAMERON COUNTY, TEXAS

ISSUE

RAMP

DRAWINGS

DATE

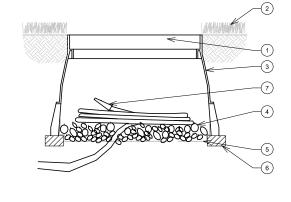
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Кеу Мар



Two Wire Terminus Box

Tree Bubbler Pop-Up Detail

Not to Scale

Not to Scale

DETAIL CALLOUT LEGEND

- 1. Top Of Valve Box To Be Flush With Finished Grade marked "2W" in white paint (3" ht. min.).

 2. Finished Grade
- Valve Box
 3/8" Dia. Gravel 6" Min. Depth.
- Filter Fabric.
 Brick Supports Min. (4) Per Valve Box.
 Wires to Controller, 36" MIN.
 Lateral Line

DETAIL CALLOUT LEGEND

DETAIL CALLOUT LEGEND

Turf Area.
 Finished Grade.
 Pro-Spray 6" Sprinkler body, See Plan for specific nozzle types
 Hunter HSJ Series swing joint, size as required
 Sch. 40 PVC Tee Or Elbow.
 PVC Lateral Line (12" Min. Cover As Noted In Legend).

Turf Area.
 Finished Grade.
 Pro-Spray 6" Sprinkler body with PCN-25
 Bubbler Nozzle
 Hunter HSJ Series swing joint, size as required
 Sch. 40 PVC Tee Or Elbow.
 PVC Lateral Line (12" Min.
 Cover As Noted In Legend).

MARISOL BOAT RAMP

Key Map

Planning + Landscape Architecture

LANDSCAPE & IRRIGATION DRAWINGS

THE CITY OF SOUTH PADRE ISLAND, CAMERON COUNTY, TEXAS

DATE ISSUE

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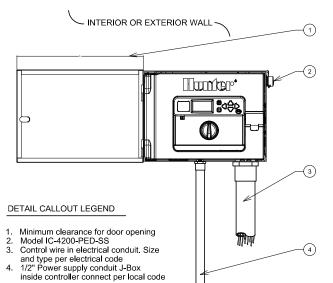
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Revision Date Remarks

IRRIGATION DETAILS

L9-02

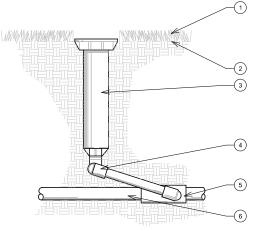


NOTE: Controller shall be hard-wired to grounded 110 VAC power source

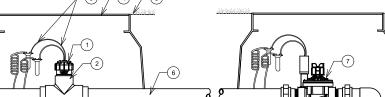
Irrigation Controller (ICC2-PED-SS) Not to Scale

DETAIL CALLOUT LEGEND

- Model Flow-Clik xxx
 Model FCT-XXX (See Plan to Size)
 Min. 18/2 wire to interface panel maximum wire distance run of 1,000'
 Standard Valve Box
- 5. Finished Grade 6. Mainline Pipe 7. Master Valve
- FCT FITTING SELECTION

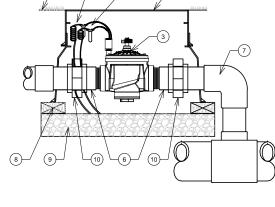


Turf Pop-Up Spray Detail Not to Scale



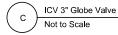
Flow-Clik

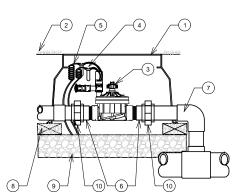
Not to Scale



DETAIL CALLOUT LEGEND

- 1. Jumbo box with extension
 2. Finish grade
 3. Remote control valve model ICV-301g with filter sentry
 4. DBRY Waterproof connectors (2)
 5. 18-24" Coiled Wire
 6. Sch 80 t.o.e. nipple
 7. Main line pipe & fittings
 8. Brick supports (4)
 9. 3" depth min. of 3/4" washed gravel with commercial grade weed barrier
 10. PVC slip unions





DETAIL CALLOUT LEGEND

- 1. Standard valve box
 2. Finish grade
 3. Remote control valve model ICV-151g & ICV-201g with filter sentry
 4. DBRY Waterproof connectors (2)
 5. 18-24" Coiled Wire
 6. Sch 80 t.o.e. nipple
 7. Main line pipe & fittings
 8. Brick supports (4)
 9. 3" depth min. of 3/4" washed gravel with commercial grade weed barrier
 10. PVC slip unions

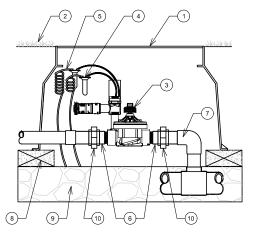


DETAIL CALLOUT LEGEND

1. 18-24" coiled wire 2. DBRY Waterproof connectors (2) 3. Node-x00

ICV 1 1/2" - 2" Globe Valve

Not to Scale



DETAIL CALLOUT LEGEND

- 1. Standard valve box

- 1. Standard valve box
 2. Finish grade
 3. Remote control valve model
 ICV-101g with filter sentry
 4. DBRY Waterproof connectors (2)
 5. Standard valve box
 6. Sch 80 t.o.e. nipple
 7. Main line pipe & fittings
 8. Brick supports (4)
 9. 3" depth min. of 3/4" washed gravel with commercial grade weed barrier
 10. PVC slip unions



Node Controller Not to Scale

ICV 1" Globe Valve Not to Scale



Planning + Landscape

Architecture

Key Map

THE CITY OF SOUTH PADRE ISLAND, CAMERON COUNTY, TEXAS

DATE	ISSUE	

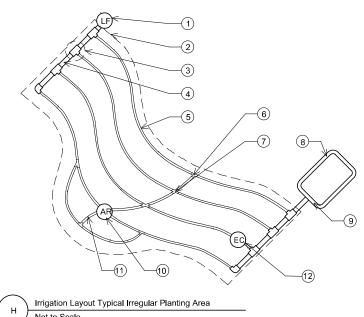
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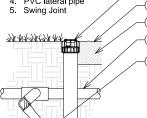
IRRIGATION DETAILS

L9-03

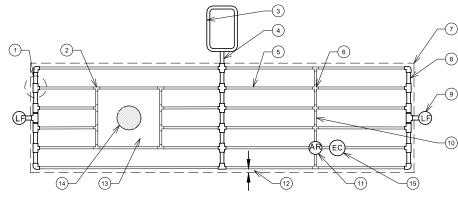


DETAIL CALLOUT LEGEND

- Hunter Eco-Indicator
- Finish Grade
 Adjacent Mulch
 PVC lateral pipe



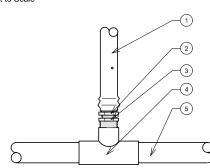
Not to Scale



Eco Indicator - Swing Joint

Not to Scale

Irrigation Layout Typical Regular Planting Area

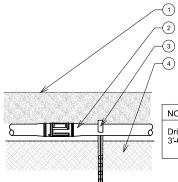


DETAIL CALLOUT LEGEND

- Techline Tubing.
 3/4" Male Adapter.
 3/4" Male x 1/2" Female Reduction

Bushing.
4. PVC Tee (SxSxT).
5. PVC Lateral (Or Exhaust Header).





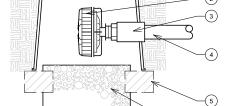
DETAIL CALLOUT LEGEND

- 1. Top Of Mulch.
- Landscape Dripline Tubing. Tie Down Stake: Rain Bird LD16STK.
- 4. Finish Grade.

NOTE:

Drip Irrigation To Be Staked Every 3'-0", And Before And After Every Turn.

Drip Tube Staking Detail Not to Scale



Typical Air/Vaccum Relief

Not to Scale

Line Flushing Valve

Not to Scale

DETAIL CALLOUT LEGEND

- 1. Line Flushing Valve Plumbed To Techline
- Or Poly.
 Planting Bed/Area Perimeter.

- 3. Techline Start Connection.
 4. 1" PVC Or Poly Exhaust Header
 5. Techline Tubing Lateral, 18" O.C. with
 9 GPH Emitters @ 18" O.C.
- Techline Tee. Techline Cross.
- 8. Remote Control Valve With Disc Filter And PRV, See Irrigation Plan For Size.
 9. 1" PVC Supply Header, Unless Noted
- As Otherwise On Plans.

 10. Air/Vacuum Relief Valve, Locate At High Point Of Zone.
- Solution 2018.
 Blank Tubing Centered On Mound Or Berm.
 Eco Indicator, by Hunter to be installed in each drip zone.

NOTE:

Netafim, Or approved Equal, Drip Irrigatio Shall Be Installed As Per Manufacturers Guidelines And Specifications For Local Soil. All Drip Tubing To be Installed 4" Below Finished Grade And Staked Every 3'-0", And Before And After Every Turn.

DETAIL CALLOUT LEGEND

- Techline Start Connection.

- Techline Start Connection.
 Techline Tee.
 Remote Control Valve With Disc Filter
 And PRV, See Irrigation Plan For Size.
 1" PVC Supply Header, Unless Noted
 As Otherwise On Plans.
 Techline Tubling Lateral, 18" O.C. with
 9 GPH Fmitters @ 18" O.C.
- .9 GPH Emitters @ 18" O.C. Techline Cross.
 Planting Bed/Area Perimeter.

- 7. Franting Bea/Area Permeter.
 8. 1" PVC Or Poly Exhaust Header.
 9. Line Flushing Valve Plumbed To PVC Or Poly.
 10. Blank Techline Tubing (@ 50' O.C.).
 11. Air/Vacuum Relief Valve, Locate At High Point Of Zone.
- 12. Perimeter Laterals 6" From Hard Edge.
- Tree Opening In Drip Line.
 Tree/Palm, See Planting Plans.
 Eco Indicator, by Hunter to be installed
- in each drip zone.

DETAIL CALLOUT LEGEND

- 6" Round Valve Box With Cover. Air/Vacuum Relief Valve Hunter PLD-AVR 3/4".
- 3. 3/4" Male x 1/2" Female
- Reduction Bushing.
 Techline 180 2-Way Adapter Tee.
- Techline Tubing. 3/4" Crushed Gravel Sump.
- Brick Supports (Three).

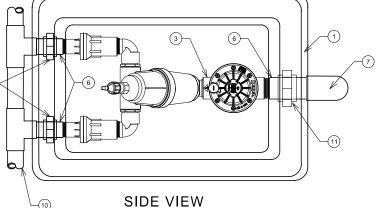
DETAIL CALLOUT LEGEND

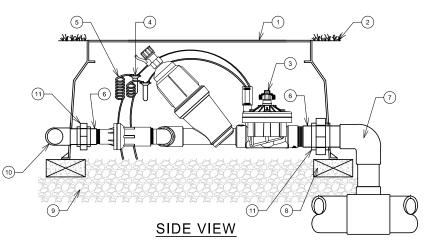
- 6" Round Valve Box With Cover. Line flushing Valve by Hunter AFV-T PVC Reducer Adapters S x 1/2"FTP
- (Size As Required).
 PVC Lateral (Or Exhaust Header).
- 5. Brick Supports (Three).6. 3/4" Crushed Gravel Sump (1 Cubic Ft).



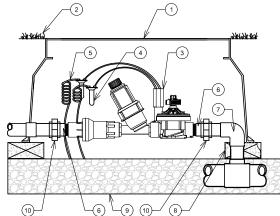
- 1. Super jumbo valve box
- 2. Finish grade
 3. Drip zone kit model ICZ-151-40 with filter (tip 45 degrees) regulator 40 psi
 4. DBRY Waterproof connectors (2)
- 5. 18-24" coiled wire
- 6. Sch 80 t.o.e. nipple
- 7. Main line pipe & fittings
 8. Brick supports (4)
 9. 3" depth min. of 3/4" washed gravel
- with commercial grade weed
- barrier
 10. Lateral pipe and fittings
- 11. Pvc slip unions (2)







ICZ 151-40 Drip Control Kit - Flow 20 to 60 GPM



DETAIL CALLOUT LEGEND

- 1. Jumbo valve box
- Finish grade
 Drip zone kit model ICZ-101-xx with filter (tip 45 degrees) regulator 25 nitter (tip 45 degrees) regulator 25 or 40 psi
 4. DBRY Waterproof connectors (2) 5. 18-24" coiled wire 6. Sch 80 to.e. nipple 7. Main line pipe & fittings

- 8. Brick supports (4)
 9. 3" depth min. of 3/4" washed gravel with commercial grade weed barrier
- 0. PVC slip unions (2)





MARISOL BOAT RAMP

LANDSCAPE & IRRIGATION **DRAWINGS**

THE CITY OF SOUTH PADRE ISLAND, CAMERON COUNTY, TEXAS

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Project #: C275-21184

Date: NOVEMBER 03, 2023

Revision Date Remarks

IRRIGATION DETAILS

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