LIZA JACKSON BOAT RAMP

A RECREATIONAL DEVELOPMENT IN SECTION 23, TOWNSHIP 2 SOUTH, RANGE 24 WEST CITY OF FORT WALTON BEACH, OKALOOSA COUNTY, FLORIDA SITE IMPROVEMENT PLANS

DUTY TO INDEMNIFY:

THE CONTRACTOR SHALE DEPEND, INDIGHNEY, KEEP AND SAVE HARMLESS THE CONTRACTOR SHALE DEPEND, INDIGHNEY, KEEP AND SAVE HARMLESS REPRESENTATIVES, AGENTS AND EMPLOYEES, IN BOTH HOLIVIOUAL AND OFFICIAL CAPACITIES, AGAINST ALL SUITS, CALMAS, DAMAGES, LOSSES AND EMPENDESS, INCLUDING ATTORNEY'S FIETS, CAUSED BY, GROWING COSSESS AND EMPENDESS, INCLUDING ATTORNEY'S FIETS, CAUSED BY, GROWING CONTRACT BY THE CONTRACTOR OF ITS SUBCONTRACTOR'S TO THE CONTRACTOR OF ITS SUBCONTRACTOR'S TO THE CANTACTOR OF ITS SUBCONTRACTOR'S TO THE CANTACTOR OF THE CANTACTOR OF THE CANTACTOR OF THE CANTACTOR OF THE STATE OF FLORIDA AND NOT EXCHAUNT AS ALLOWED BY THE LAWS OF THE STATE OF FLORIDA AND NOT EXCHAUNT AS ALLOWED BY THE LAWS OF THE STATE OF FLORIDA AND NOT EXCHAUNT AS ALLOWED BY THE LAWS OF THE STATE OF FLORIDA AND NOT EXCHAUNT AS ALLOWED BY THE LAWS OF THE STATE OF FLORIDA AND NOT EXCHAUNT AS ALLOWED BY THE LAWS OF THE STATE OF FLORIDA AND NOT EXCHAUNT AS ALLOWED BY THE LAWS OF THE STATE OF FLORIDA AND NOT THE CANTACTOR OF THE STATE OF FLORIDA AND NOT THE CANTACTOR OF THE STATE OF FLORIDA AND NOT THE CANTACTOR OF THE STATE OF FLORIDA AND NOT THE CANTACTOR OF THE STATE OF FLORIDA AND NOT THE CANTACTOR OF THE STATE OF FLORIDA AND NOT THE CANTACTOR OF THE CANTACTOR OF THE STATE OF FLORIDA AND NOT THE CANTACTOR OF THE CA UNENFORCEABLE. IN THE EVENT OF ANY SUCH INJURY (INCLUDING DEATH) OR LOSS OR DAMAGE, OR CLAIMS THEREFORE, THE CONTRACTOR SHALL GIVE PROMPT NOTICE TO THE OWNER.

UTILITIES NOTE

CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING UTILITIES AND COORDINATE WITH UTILITY COMPANIES 48 HOURS PRIOR TO CONSTRUCTION.

UTILITY COMPANIES

CONTRACTOR SHALL HAVE ALL EXISTING BURIED UTILITIES "LINE SPOTTED" BY CALLING 1-800-432-4770 "CALL SUNSHINE" OR BY CONTACTING LOCAL UTILITY COMPANIES.

WATER & SEWER: CITY OF FT. WALTON BEACH 20.3 B HOLLTWOOD BLVD., NW FT. WALTON BEACH, FL 32548 PHONE: (850) 833—9613 — WATER PHONE: (850) 833—9613 — SEWER LINE SPOT: (850) 833—9613

ELECTRIC:

GULF POWER 140 HOLLYWOOD BLVD. SW FT. WALTON BEACH, FL 32548 CONTACT: EDDIE THOMASON PHONE: (850) 833-4826

GAS:

OKALOOSA GAS DISTRICT 364 HIGHWAY 190 P.O. BOX 548 VALPARAISO, FL. 32580 CONTACT: ESSA RHEBI, ENGINEERING PHONE: (850) 729-4864 FAX: (850) 678-2165 LINE SPOT: (850) 729-4880

COX COMMUNICATIONS ENGINEERING DEPARTMENT 320 NW RACETRACK ROAD FT. WALTON BEACH, FL 32547 CONTACT: ROGER DIXON PHONE: (850) 314—8121 FAX: (850) 863-7061 LINE SPOT: (850) 862-4144

TELEPHONE:

CENTURY LINK
P.O. BOX 1778
FT. WALTON BEACH, FL 32549
MAIL CODE 2722

DATE PREPARED:

REVISIONS:

20 AUGUST 2024

23 OCTOBER 2024 20 DECEMBER 2024 25 MARCH 2025

PREPARED BY:

CHOCTAW ENGINEERING, INC. FT. WALTON BEACH, FL 32547 MSINER OCHOCTAWENG COM

CEI PROJECT NO.: 2020-141-A

PREPARED FOR:

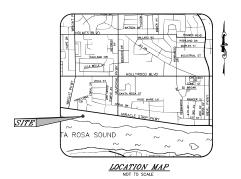
JDF ARCHITECTURE, LLC 201 HOLLYWOOD BLVD FORT WALTON BEACH, FL 32548 CONTACT: JASON FLOYD PHONE: (850) 796-2166 EMAIL: J.FLOYD@JDFARCHITECTURE.COM

LEGAL DESCRIPTION (AS PROVIDED) LOTS 67-76 OF SEABREEZE SUBDIVISION IN PLAT BOOK 1, PAGE 22, OF SECTIONS 14 & 23, TOWNSHIP 2 SOUTH, RANGE 24 WEST, OKALOOSA COUNTY, FLORIDA.

BENCHMARK INFORMATION:

BENCHMARK NO. 1
BASE OF UTILITY POLE LOCATED 302'± SOUTH EAST OF NORTH WEST PROPERTY CORNER. ELEV. 8.62' NAVD 1988

BENCHMARK NO. 2
BASE OF FIRE HYDRANT LOCATED 20 ± SOUTH
EAST OF NORTH WEST PROPERTY CORNER. ELEV. 7.80' NAVD 1988



INDEX: 1. COVER SHEET

2. OVERALL PLAN

3 DEMOLITION PLAN

5. GRADING PLAN

6. DRAINAGE PLAN

7. UTILITY PLAN 8. SECTIONS & PROFILES

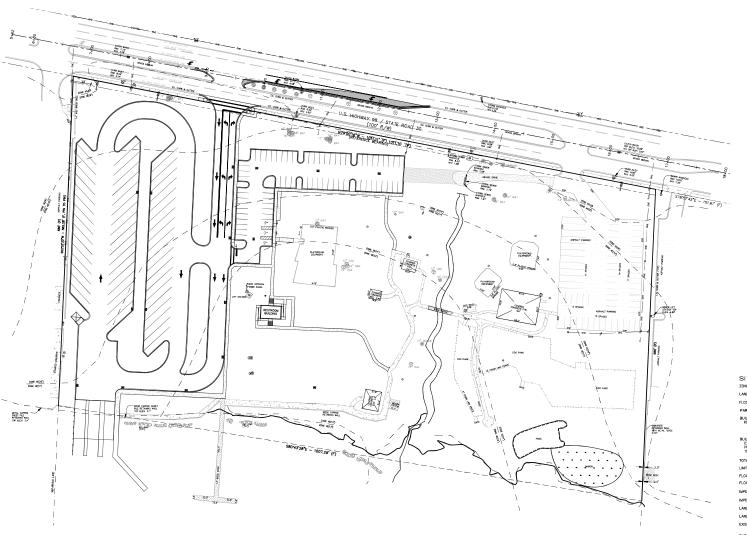
9. STORMWATER POLLUTION PREVENTION PLAN

10. MISCELLANEOUS DETAILS

11. WATER AND SEWER DETAILS

12. SPECIFICATIONS (1 OF 2)

13. SPECIFICATIONS (2 OF 2)





LEGEND

ASPHALT CONCRETE - SETBACK LINE POWER POLE GUY ANCHOR

LIGHT POLE OVERHEAD UTILITY LINE ELECTRICAL BOX

TELEVISION BOX TRAFFIC SIGNAL BOX TELEPHONE BOX

FENCE TRAFFIC ARROW Œ CENTERLINE

SINGLE POLE SIGN DOUBLE POLE SIGN

SITE DATA TABLE: ZONED: REC (RECREATION) LAND USE: REC (RECREATION) FLOOD ZONE: X, AE (9'-10"), VE (11'-13') PARCEL ID #: 23-2S-24-221A-0000-0670

BUILDING SETBACKS: REQUIRED: FRONT = 25' SIDE = 7.5' REAR = 25' PROPOSED: FRONT = >25' SIDE = >7.5' REAR = >25'

TOTAL SITE AREA: 547,145 SF = 12,56 ACRES LIMITS OF CONSTRUCTION: 222,350 SF = 5.10 ACRES FLOOR AREA ALLOWED: 0.1 = 54,714 SF

IMPERMOUS AREA PROMDED: 169,845 SF = 31.0% LANDSCAPE AREA REQUIRED: 82,070 SF = 15% LANDSCAPE AREA PROVIDED: 377,300 = 69.0% EXISTING PARKING SPACES: 178 SPACES

PARKING SPACES PROVIDED: EXISTING SPACES TO RELIAM P 60 SPACES EXCORDED SPACES: 120 SPACES 100 FOR SPACES 100 SPACES BICYCLE SPACES REQUIRED: 1 PER 4 VIDICLE SPACES (165 SP) = 47 SPACES BICYCLE SPACES PROVIDED: 50 SPACES

FLOOD ZONE INFORMATION PER FLOOD INSURANCE RATE MAP OF CITY OF FORT WALTON BEACH, OKALOGSA COUNTY, FLORIDA, COMMUNITY PANEL NO. 1209/CO442J, DATED 03/09/2021.

NOTE: ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

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OVERALL PLAN
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Job No.: 2006-242-B Date: 20 AUG 2024 Fld. Vol.: N/A Scale: 1" = 50" Disk No.: 062428-ENG Designed:MTM Drawn: MTM Checked: MCS

GRAPHIC SCALE

LEGEND

EXISTING FEATURES TO BE REMOVED

PLAN TEMPORARY CONSTRUCTION ENTRANCE DETAIL

2. WHEN NECESSARY WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.

EROSION NOTES:

- EROSION PROTECTION: SOIL EROSION SEDMENTATION MUST BE CONTROLLED AND RETAINED ON SITE DURING CONSTRUCTION. THEREFORE, EROSION PROTECTION, SUCH AS STAKED BALED HAY AND SLT FENCE BARRIERS, MUST BE INSTALLED PRIOR TO START OF CONSTRUCTION.
- SILT FENCE BARRIER SHALL BE INSTALLED IN ALL AREAS SUBJECT TO SOIL EROSION SEDIMENTATION.
- STABILIZED CONSTRUCTION ENTRANCESHALL BE INSTALLED AS THE 1ST STEP OF CLEARING AND GRADING
- ADDITIONAL TECHNIQUES TO REDUCE SOIL TRACKING OFF OF SITE & ONTO ROADWAY SUCH AS WHEEL WASHING MAY BE REQUIRED.
- ANY SEDIMENT THAT IS TRACKED ONTO ROADWAY SHALL BE REMOVED IMMEDIATELY BY SWEEPING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED FROM ROADWAY & STABILIZED ON THE SITE.

- 1. REMOVE PAVEMENT, BUILDINGS, BASE COURSE AND CURBING
- REMOVE EXISTING UTILITY SERVICES. COORDINATE WITH UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL DISPOSE OF ALL DEBRIS OFF-SITE AND BE IN COMPLIANCE WITH FEDERAL, STATE AND COUNTY LAWS AND REGULATIONS.
- CONTRACTOR SHALL RETAIN ALL SOIL EROSION SECIMENTATION ON—SITE BY USING STAKED SILT FENCE.
- THE EXISTING WATER SERVICES WITHIN THE PROPERTY MUST BE LOCATED, DISCONNECTED AND CAPPED AT THE MAIN LINE AND REMOVED FROM THE SITE.
- EXCAVATION MATERIAL TO BE USED AS FILL MATERIAL ON-SITE OR DISPOSED OFF-SITE.

UTILITIES NOTE:

CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING UTILITIES AND COORDINATE WITH UTILITY COMPANIES 48 HOURS PRIOR TO CONSTRUCTION

IZA JACKSON BOAT RAMP DEMOLITION PLAN IZA BO/ Not valid unless t MARK C. SINER, P.E. FL. REG. NO. 48831

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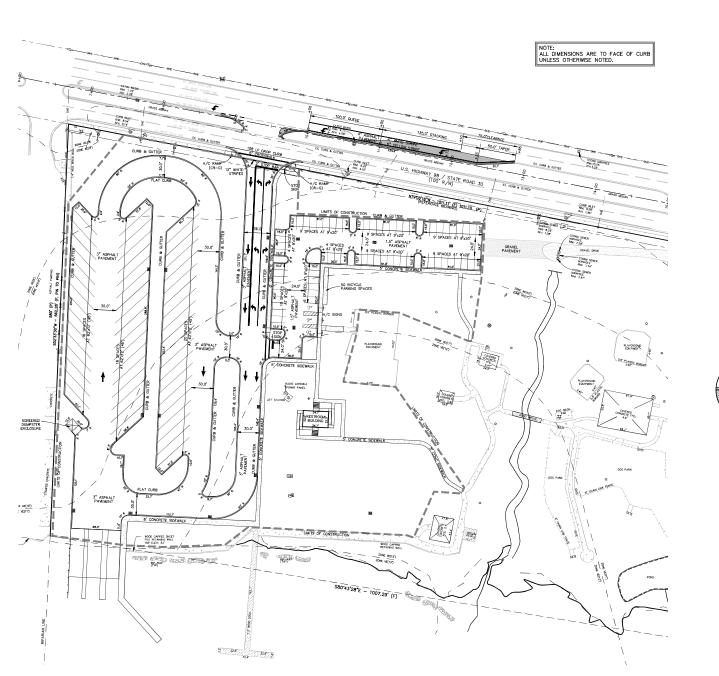
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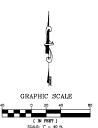
CHOCTAW ENGINEERING • E 112 TRUXTON AVENUE FORT WALTON BEACH, FL.

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Job No.: 2006-242-B Date: 20 AUG 2024 Fld. Vol.: N/A Scale: 1" = 40" Disk No.: 06242B-ENG Designed:MTM Drawn: MTM Checked: MCS

- THE CONTRACTOR SHALL CONTROL TRAFFIC THROUGH THE WORK ZONE BY INSTALLING SIGNING AND BARRICADES AS SHOWN ON F.D.O.T. INDEX 102-600 SERIES.
- ALL LANE AND SHOULDER CLOSURES MUST BE REQUESTED AND APPROVED A MINIMUM OF 48 HOURS PRIOR TO WORK STARTING. ALLOW UP TO 2 WEEKS FOR APPROVAL PROCESS.





LEGEND

ASPHALT CONCRETE

- SETBACK LINE POWER POLE GUY ANCHOR

> LIGHT POLE OVERHEAD UTILITY LINE ELECTRICAL BOX

TELEVISION BOX TRAFFIC SIGNAL BOX

TELEPHONE BOX

CENTERLINE SINGLE POLE SIGN

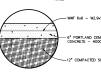
DOUBLE POLE SIGN

-1-1/2" ASPHALT SURFACE COURSE TYPE S-1

1-1/2" ASPHALT PAVEMENT DETAIL

-1" ASPHALT SURFACE FINE TYPE SP-9.5 -TACK COAT 0.08 GAL/SQ. YD. PRIME COAT 0.15 GAL/SQ. YD.

3" ASPHALT PAVEMENT DETAIL N.T.S.



6" CONCRETE PAVEMENT DETAIL N.T.S.

CROSS SLOPE ON SIDEWALK AND PEDESTRIAN ACCESSWAY ACROSS THE DRIVEWAY IS NOT TO EXCEED 2% (1:50).

IF STREET HAS BEEN OVERLAYED, INTO GUTTER, MATCH CONCRETE TO CONCRETE AND ASPHALT TO ASPHALT.

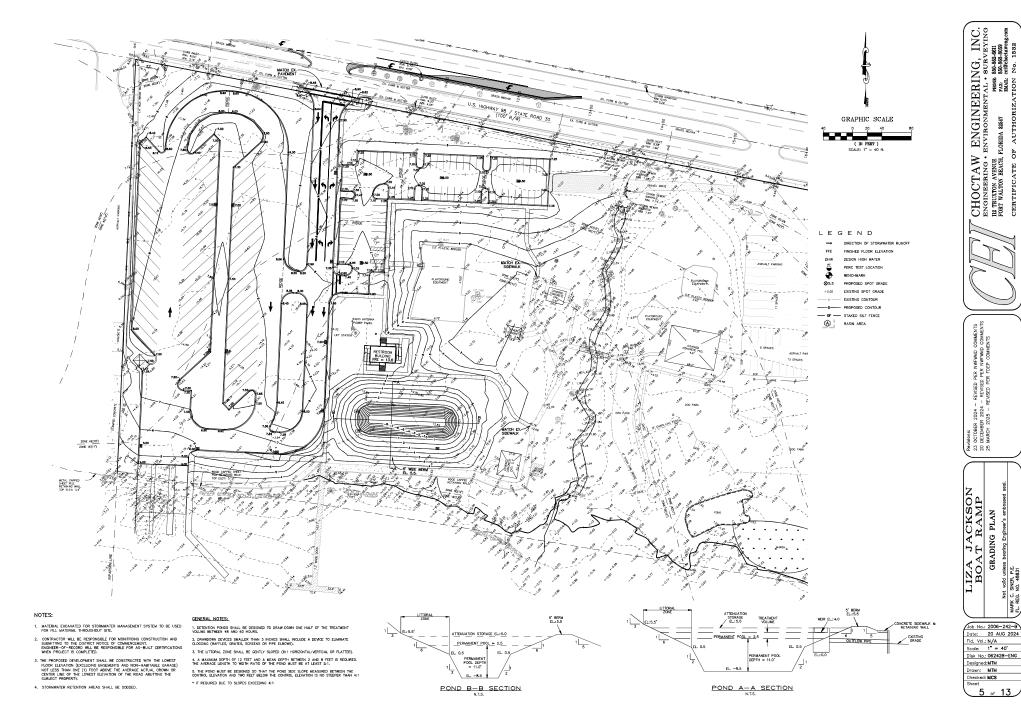
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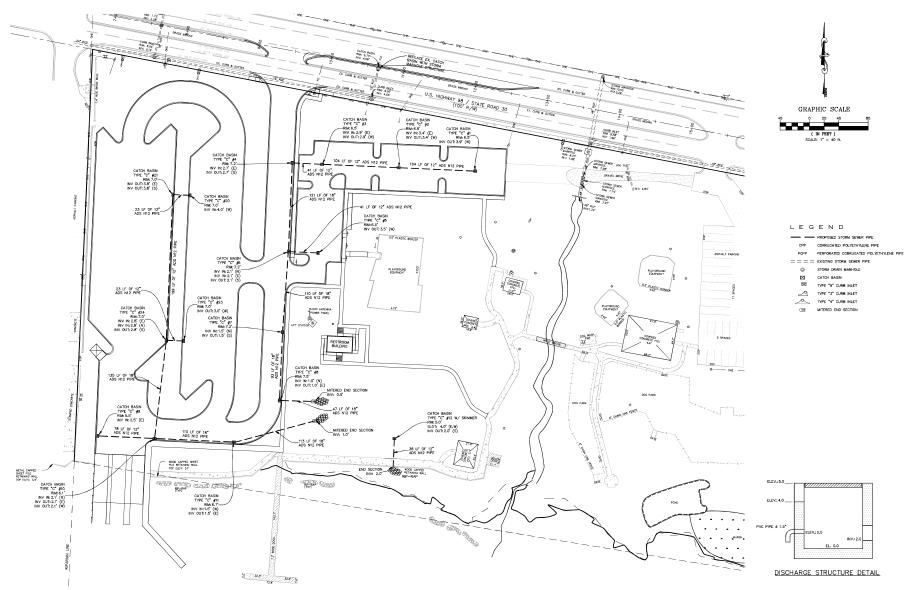
LIZA JACKSON BOAT RAMP SITE PLAN

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BOAT RAMP
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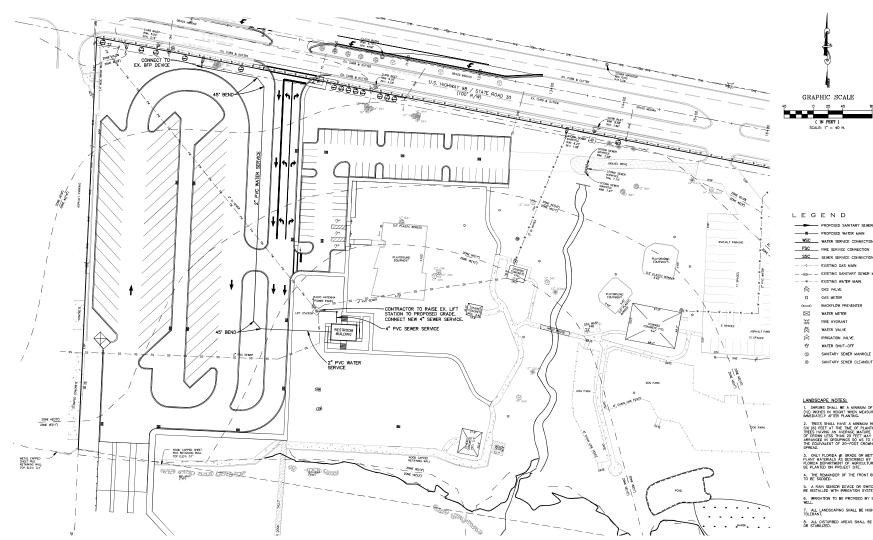
NAME C. SHORM. F.E.
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- A MANATORY PROCESSIFICATION MEDITOR SHALL BE HELD, AT THE COME EVALUATION COURT WITH HE MOVING PARTES, INCLUDING THE DESIGNERS DEMONSTRATED WHITE AND CONTRECTOR OF THE PARTES OF THE PA

- 5. PRIOR TO OCWS SIGNING FDEP CLEARANCE APPL Q. PASSING PRESSURE TESTS b. PASSING BACTERIOLOGICAL TESTS c. SATISFACTORY INSPECTION d. COMPLETE, ACCURATE AS—BUILTS RECEIVED

- 6. PROP TO DOME ACCOPTANCE OF INFRASTRUCTURE AND THE SETTING OF WATER METERS, THE FOLLOWING ITEMS ARE REQUIRED:
 A. FREE PLEASUR FINAL INSPECTION, AT ESTABLISHED PRINSED CHANGE.
 D. FASSING FINAL INSPECTION, AT ESTABLISHED PRINSED CHANGE CONCREDING THE ACCOUNT SECURITY CONCREDING THE ACCOUNT CONCREDING THE SETTING CONCREDING THE CONCREDING THE SETTING THE ACCOUNT CONCREDING THE SETTING THE
- 7. CAPACITY EXPANSION CHARGES SHALL BE PAID IN FULL PRIOR TO THE ISSUANCE OF A BUILDING PERMIT. COORDINATE CAPACITY EXPANSION CHARGES, ACCOUNT SETUP, AND HYDRANT METERS WITH THE OCWS TAPS OFFICE AT (850) 609-6182.

- 14. A MINIMUM HORIZONTAL CLEARANCE OF 36" IS REQUIRED FROM POWER TRANSFORMER/BOX PERIMETER TO ANY UTILITY MAINS AND SERVICES.

- 15. CLEANOUTS ARE REQUIRED ON ALL SEWER SERVICES AND SHOULD BE LOCATED AT THE BACK OF THE RIGHT-OF-WAY OR EASEMENT LINE. THE TOP OF THE CLEANOUT SHALL BE 6-12" BELOW GRADE AND INSIDE A PLASTIC METER BOX WITH A GREEN LID. IF THE CLEANOUT IS LOCATED IN PAYMENT. IT SHALL BET RAFTC-PATED PRISS, AND NO METER BOX IS REQUIRED.

LANDSCAPE REQUIREMENTS

LANDSCAPE AREA	PLANTING REQUIREMENTS	SITE INFORMATION	PLANTS REQUIRED	PROPOSED VEGETATION		
EXISTING TREES TO REMAIN	N/A	20 TREES WITH 8" DBH OR GREATER	N/A	20 EX. TREES TO REMAIN		
FRONT BUFFER	1 TREE PER 25 LINEAR FEET	LEWIS TURNER BLVD (1,011 LP)	41 TREES	27 CANOPY TREES 14 UNDERSTORY TREES		
PERIMETER PLANTINGS	1 TREE PER 50 LINEAR FEET	2,101 LF	65 TREES	65 CANOPY TREES		
PROTECTED TREES TO BE REMOVED	1" PLANTED PER 1" REMOVED	274° DBH	92 TREES*	92 CANOPY TREES (27 FRONTAGE + 65 PERIMETER		
•••	LIVE OAK TREE (CANOPY)	TOTAL REQUIRED:	126 TREES 63 CANOPY TREES 63 UNDERSTORY TREES			
1 7	O CREPE MYRTLE OAK TREE (U O AZALEA BUSH (SHURB)	TOTAL PROPOSED:	126 TREES 92 CANOPY TREES 14 UNDERSTORY TREES 20 EX. TREES TO REMAIN			

ASSUMING 3 DBH PLANTING SIZE

GRAPHIC SCALE

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GAS METER

WATER VALVE

LANDSCAPE NOTES: SHRUBS SHALL BE A MINIMUM OF
 (12) INCHES IN HEIGHT WHEN MEASU IMMEDIATELY AFTER PLANTING.

IRRIGATION VALVE WATER SHUT-OFF SANITARY SEWER MANHOLE SANITARY SEWER CLEANOUT

8. ALL DISTURBED AREAS SHALL BE SODDED OR STABILIZED.

184 GAS VALVE

× WATER METER

n FIRE HYDRANT

- EXISTING SANITARY SEWER MAIN

BACKFLOW PREVENTER

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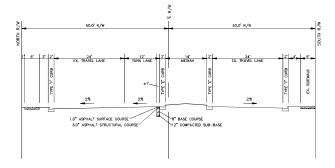
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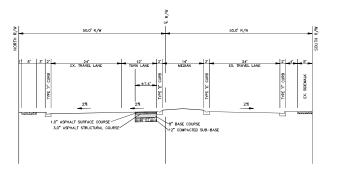
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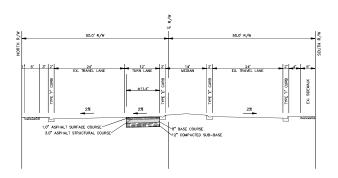
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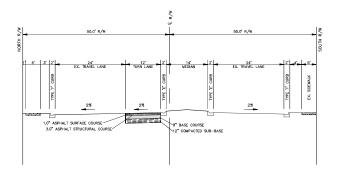
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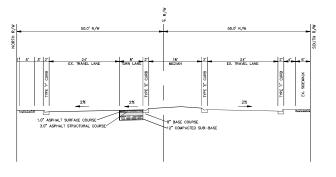
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CHOCTAW ENGINEERING, INC.

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CERTIFICATE OF AUTHORIZATION NO. 1532

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SITE DESCRIPTION:

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IN ADDITION TO THOSE RESPONSIBILITIES OUTLINED WITHIN THE CONSTRUCTION PLANS AND DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING MEASURES:

- COMMO MESSARES.

 PROCET SCREDULE WIRE ERROROW AND SERVINEY CONTROL INSTALLATIONS AND MAINTENANCE RID TO SECRETO DATE OF CONSTRUCTION ACTIVITIES. AND MAINTENANCE RID TO SECRETO DATE OF CONSTRUCTION ACTIVITIES. ALTERATION TO THE ESSEN EXPROSON AND SERVINEY CONTROL DATE OF CONTROL OF CONT

THE CONTRACTOR IS ADVISED THAT THE CONTRACT DRAWING ONLY INDICATE EROSION, SEDMENT, AND TURBOITY CONTROLS AT LOCATIONS DETERMINED IN THE DESIGNA PROCESS. HOWEVER, THE CONTRACTOR IS REQUIRED TO PREVIOUS ANY ADDITIONAL CONTROLS NECESSARY TO PREVENT THE POSSIBILITY OF SILTIN ANY ADJACENT LOUALNAD PARCE, OR RECEIVEN WAY.

MAINTENANCE: MANTIDANCE OF TREGON CONTROL OF DESCES OF PARAMENT REPORTANCE TO THE PROPERTY OWNER/JURE. THE CONTRACTOR SHALE SEE SECTIONING FOR MANTAMEN ALL POLLUTION PERCHATION CONTROLS DATA FRAME SHALL BE ALTERN THE PERCHATIONS OF SHOOL, SHOW THIS PROPERTY AND POLLUTION CONTROL MEASURES, CORRECTIVE ACTION SHALL BE REPORTED AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY ACTION OF THE PROPERTY AND THE PROPERTY ACTION OF THE P

SEQUENCE OF CONSTRUCTION

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- PHASE II

 1. TEMPORABILY SEED DENUDED AREAS
 2. INSTALL UTILITIES, UNDER DRAINS, STORM SEWERS, CURB AND GUTTERS.

- COUTES.

 STALL REP AND ADOUGH OULT STRUCTURES.

 RESTAURT PROJECTION ANDROB ALL STOWN SEWER STRUCTURES.

 RESTAURT PROJECTION ANDROB ALL STOWN SEWER STRUCTURES.

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- REFERENCES:

 1. THE CONSTRUCTION PLANS AND SPECIFICATIONS FOR THIS PROJECT, CHOCTAW ENGINEERING, INC PROJECT NO. 2006–242–8. AS PREPARED BY CHOCTAW ENGINEERING, INC., AND REFERENCED AND MADE A PART OF THIS PLAN.
- PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FILE "NOTICE OF INTENT O USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES" (OPE FROM 82-62.300(4/8) OR LATEST VERSION) TO FDEP WA WEBSITE ELECTRONIC SUBMITTAL OR TO THE FOLLOWING ADDRESS.

NPDES STORMWATER NOTICES CENTER, MS #3585 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32399-2400

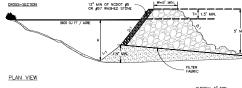
TREE PROTECTION:
ORDINA RODI MELAS FOR TREES SHOWN TO BE PRESENTED SHALL HIT BE
ORDINA RODI MELAS FOR TREES BY MOST TERFFORM WELL GAMES AND OR
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THEY ARE CUIT EVERLY WITH LEAN SHARP PRUINSO TOOLS, CONTRACTOR SHALL
BE RESPONSEE FOR MEMORIZION BE DANGE OF THE SUSTING RODI STRILLS.

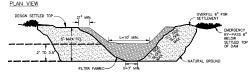
STORMWATER MANAGEMENT
THE STORMWATER RUNOFF FROM THE PROJECT AREA WILL BE COLLECTED ON SITE PRIOR TO A CONTROLLED DISCHARGE TO SANTA ROSA SOUND.

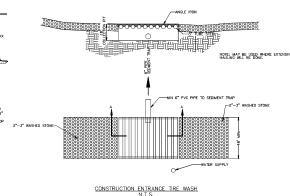
APPROVED STATE AND LOCAL PLANS OR PERMITS: THE FOLLOWING PERMITS ARE REQUIRED FOR THE CONSTRUCTION OF THE STORMWATER FACILITIES FOR THIS PROJECT.

CITY OF FORT WALTON BEACH CONSTRUCTION PERMIT
 NWFWMD ERP

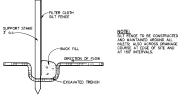








TEMPORARY SEDIMENT TRAP



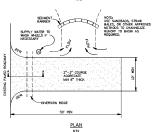
SILT FENCE DETAIL

EROSION NOTES: 1. EROSION PROTECTION: SOIL EROSION SEDMENTATION MUST BE CONTROLLED AND ECTAMED ON SITE DURING CONSTRUCTION. THEREFORE, EROSION PROTECTION, SUICH AS STAVED BALED HAY AND SET FRACE BARRIERS, MUST BE INSTALLED PRICE TO START OF CONSTRUCTION.

- 3. STORWWATER DETENTION AREAS SHALL BE SODDED.
- 4. GRADES AT CURBS ARE AT FLOWLINE

DIVERSION RIDGE REQUIRED WHERE GRADE EXCEEDS 2%





TEMPORARY CONSTRUCTION ENTRANCE DETAIL

NOTES:

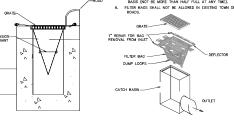
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR CONDITION THAT WILL PHEVEN I INFORMING ON FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR, AND/OR CLEANQUIT OF ANY MFASURES USED TO TRAP SEDIMENT. 2. WHEN NECESSARY WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. 3. WHEN WASHING IS REQUIRED IT SHALL DONE ON AN AREA STABILIZED WITH CRI. STONE THAT DRAINS INTO AN APPROVED SEDMENT TRAP OR SEDMENT BASIN.



- 1. INLET MAINTENANCE SHALL BE DOCUMENTED IN PROJECT LOG BOOK.
- NILIT MANTENANCE SHALL BE DOCUMENTED IN PROJECT LOS BOOK
 PRIETE NESS SHALL BE APPROVED BY THE RESPECTORS PROOF
 TO RESTALLATION.
 PILIER BROSS SHALL BE REMOVED WHEN SITE IS STABILIZED AT
 THE DIRECTION OF THE PROJECT PROPERTY.
 PILIER BROSS SHALL BE REMOVED PROOF TO STREET ACCOPTANCE.
 PILIER BROSS SHALL BE CLEAMED OR REPLACED ON A REDULAN
 BASS BOOK DE WORD WITH A PULL AT ANY PILIER.

- FILTER BAGS SHALL NOT BE ALLOWED IN EXISTING TOWN OR NODOT

INSTALLATION



CATCH BASIN INLET PROTECTION N.T.S.

SECTION



THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.

BLOCK AND GRAVEL INLET PROTECTION N.T.S.

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LIZA JACKSON
BOAT RAMP
RM WATER POLLUTION PREVENTION PL.
Not odd unless bearing Engineer's embossed sect. M WATER Port valid unless I SINER, P.E. NO. 48831 STORM 1

MARK C. : FL. REG. N Job No.: 2006-252-B Date: 20 AUG 2024 Fld. Vol.: N/A Scale: NTS Disk No.: 06242B-MISC Designed:MCS Drawn: MTM Checked: MCS

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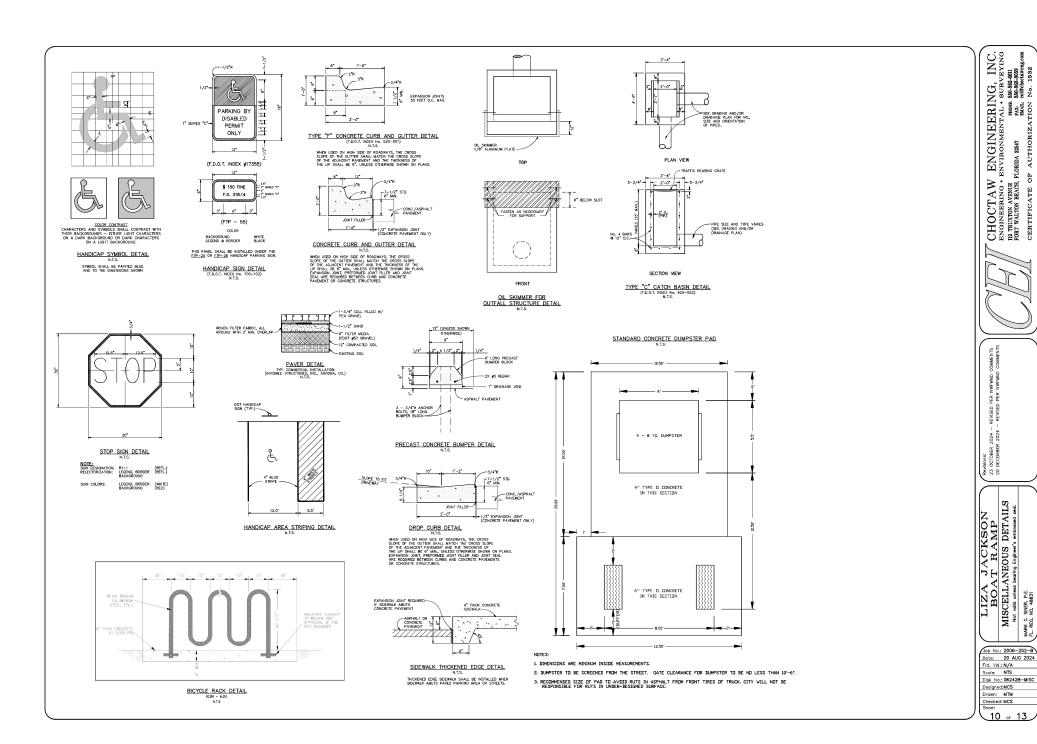
AUTHOR

OF

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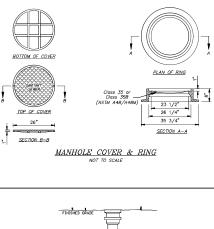
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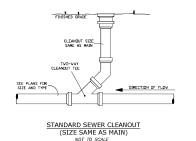
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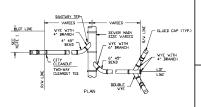


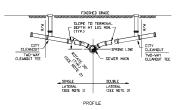
WATER & SEWER MAIN CROSSING/SEPARATION

NOT TO SCALE



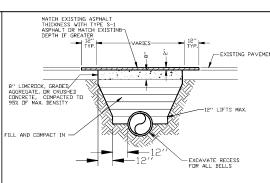






SANITARY SEWER SERVICE LATERAL NOT TO SCALE

- 1. LOCATE SINGLE LATERAL AS NEAR TO CENTER OF LOT AS POSSIBLE.
- 2. INVERT OF SERVICE LATERAL SHALL NOT ENTER SEVER MAIN BELOW SPRING LINE.
- 3. DOUBLE SERVICE LATERALS DNLY PERMITTED ON TAPS TO EXISTING GRAVITY MAINS WERE EXISTING RDAD PAVEMENT MUST BE CUT.



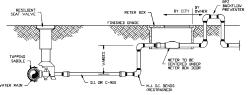
STANDARD UTILITY PATCH RESTORATION NOT TO SCALE

GENERAL NOTES:

1. THE FINAL SAY CUI SHALL BE MADE A DISTANCE OF 12 INCHES BEYOND THE TRENCH, AFFER TERCHE REXONATION AND BOOCHILL ARE COMPLETE. IF HE DISTANCE FROM THE EDGE OF THE TRENCH TO AN EXISTING BREAK OR JUINT IS LESS THAN 4 FEET, THE FINAL SAY CUT SHALL BE LOCATED AT THE EXISTING BREAK OR JUINT.

2. JOINTS SHALL BE LAPPED AND FEATHERED.

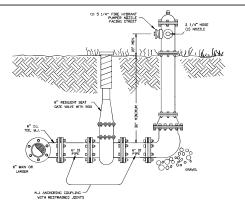
4" & LARGER WATER METER INSTALLATION NOT TO SCALE



1. ALL FITTINGS SHALL BE DUCTILE IRON MECHANICAL JOINTSON.J.) WITH COMPRESSION/PACK JOINT TYPE CONNECTIONS.

2. NO SERVICE LINE SHALL TERMINATE UNDER A DRIVEWAY.

3. ALL SERVICE TAPS TO BE LOCATED IN FIELD. TAPS SHALL BE NO CLOSER THAN AND WILL NOT BE SET IN DRAINAGE SWALES, EASEMENTS OR SIDEWALKS.

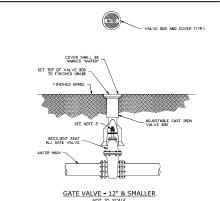


STANDARD FIRE HYDRANT

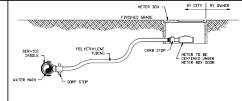
NOT TO SCALE

NOTES:

1. ALL FIRE HYDRANTS TO BE MANUFACTURED BY AMERICAN CAST IRON PIPE COMPANY.



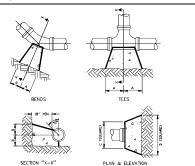
- 1 GAVE VALVE SHALL BE OF THE RESILIENT SEAT TYPE.
- 2. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION
- THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO COME UP TO 4 FOOT DEPTH BELOW FINISHED GRADE.



3/4" - 2" WATER METER INSTALLATION NOT TO SCALE

GENERAL NOTES:

- 1. ALL FITTINGS SHALL BE BRASS WITH COMPRESSION/PACK JOINT TYPE CONNECTIONS.
- 2. NO SERVICE LINE SHALL TERMINATE UNDER A DRIVEWAY.
- 3. ALL SERVICE TAPS TO BE LOCATED IN FIELD. TAPS SHALL BE NO CLOSER THAN AND WILL NOT BE SET IN BRAIMAGE SWALES, EASEMENTS OR SIDEVALKS.



STANDARD THRUST BLOCK

NOT TO SCALE

SIZE	1/4 BENDS		1/8 BENDS		1/16 BENDS		TEES		PLUGS	
	Α	В	A	В	Α	В	Α	В	С	D
4"	8"	8"	12"	8"	3"	8"	8"	8"	10"	10"
6"	12"	12"	16"	10"	5"	9"	9"	12"	12"	50"
8"	16"	16"	55"	13"			13"	16"	12"	29"
10"	50,,	20"	26"	17"			16"	20"	14"	36"
12"	24"	24"	29"	21"			18"	24"	16"	41"

SENERAL NOTES:	
I THRUST BLDCK BEARING AREAS SHALL BE POURED AGAINST UNDISTURBED MATERIAL	
2. JOINTS SHALL NOT BE COVERED BY THRUST BLOCKS. TITTINGS SHALL BE PROVIDED BY VISQUEEN OR PLASTIC POLY SHEETING.	
3. ALTERNATE DESIGNED RESTRAINING SYSTEMS SHALL BE PROVIDED WHERE THRUST BLDCKS ARE NOT SUITABLE.	

PER NWFWMD (REVISED P 2024 -\$ 22 8 DETAILS AT RAMP
SANITARY DETAIL
bearing Engineer's embossed seel.

V ENGINEERING, INC.
- ENVIRONMENTAL- SURYEYING
- BROWN SURVEYING
-

PLORIDA 82547

CHOCTAW ENGINEBRING • E 112 TRUXTON AVENUE FORT WALTON BRACH, FLA

AND unless be LIZA BO SINER, P.E. NO. 48831 WATER , Job No.: 2006-252-B Date: 20 AUG 2024 Fld. Vol.: N/A Scale: NTS Disk No.: 06242B-MISC Designed:MCS Drawn: MTM

Checked: MCS

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SCOPE: Site clearing work includes, but is not limited to:
A. Removal of trees and other vegetation.
B. Topsoil stripping.
C. Clearing and grubbing.
D. Removing above grade improvements.
E. Removing below grade improvements.

JOB CONDITIONS:

Traffic: Conduct site clearing operations to ensure minimum interference with roods, streets, walks, and other adjacent occupied or used facilities. Do not close or obstruct streets, walks, or other occupied or used facilities without permission from the Owners and or Local approving authority.

Clearing and Protection in Construction Areas: Preserve trees 8 inches or larger measured breast height (6° dbh) where possible within construction area.

Protection of Existing Improvements: Provide protection necessary to prevent damage to existing improvements indicated to remail in place.

Clearing will be limited to the extent necessary to allow for construction of the proposed improvements as a result of:

Need for access to the project site for construction equipment. Essential grade changes. Surface water drainage and utility installation. Location of driveways, buildings, and required parking.

CLEARING AND GRUBBING:
Remove trees, shrubs, grass, other vegetation, improvements, or obstructions interfering with
the installation of new construction. Removal includes digging out stumps and roots. Do not
remove items elsewhere on site or premises unless specifically indicated. Slipposal of trees,
limbs, stumps, and defels shall be the responsibility of the Controctor.

Strip topsoil to whatever depths encountered to prevent intermingling with underlying subsoil or other objectionable material. Cut heavy growths of grass from areas before stripping.

Stockpile topsoil in storage piles in areas shown or where directed by the Owner. Construct storage piles to freely drain surface water. Cover storage piles if required to prevent windshown dust

Dispose of unsultable or excess topsoil same as specified for waste material.

FILLING: FIII depressions caused by clearing and grubbing operations with satisfactory soil material, unless further excavation or earthwork is indicated.

Place fill material in horizontal layers not exceeding 6" loose depth, and thoroughly compact to density equal to adjacent ground, unless otherwise shown on the plans.

REMOVAL OF IMPROVEMENTS: Remove existing above and below grade improvements and abandoned underground piping or condit necessary to permit construction and other work.

DISPOSAL OF WASTE MATERIALS: No burning of any material, debris, or trash will be allowed.

Remove waste materials from project site on a daily basis and dispose of off-site in an approved area.

SPECIFICATION: EXCAVATION, EMBANKMENT AND SUBGRADE:

ECCANTON, DEMONDENT MOD SUBGRACE. Shall be performed in accordance allohimeters of the performance of the pe

Where required subgrade density cannot be obtained, unsuitable material shall be removed so that the road base will be constructed on a minimum of 3 feet of suitable, properly compacted material. This work shall be included in the contract lump sum price for earth excavation.

The move on mouseau in our connect time, bein price for dorth eccondition.

SOL (CRIMIT BASE). As a minimum the sol cement base course will conform generally to Section. 270 of the Florida D.O.T. Specifications for flood and Bridge Construction. The extended section of the se

The freshly compacted and finished soil-current mix must be adequately cured. An application of bituminous material such as RC-2, MC-3, RT-5 or asphaltic emulsion at the rate of 0.15 to 0.20 gal per square yard is preferred as the curing medium. Materproof paper or moist hay is acceptable if properly mointained.

AND-CAY DESCRIPTION OF THE CONTROL O

The results of these tests shall be submitted to the engineer for opprovid. After approval of the material, the sond-day base course shall be piaced in accordance with Section 244. The base course 1-160. One control of the control of the section 244 is the section 244. The base course 1-160. One control yet shall be been for each 5000 secure feet or rection they AASTTO NOTE. Sond Gay been material shall not be used in oreas where the seasonal high groundwart table is which the CQ1 (Set of the bottom of the base material.)

SubStance No. 1 and 1 an

The results of these least shall be substituted to the employer for aground. After approved of the mothetic life the innership to the control to the course shall be compacted to not less than 98 percent of the mothetim desired by a SASHTO 1—105. A inflamment of three density tests shall be mode on each drop compaction operations. Not not the control to the control

CONTINUED ON NEXT COLUMN

GRADED AGGREGATE BASE COURSE: Shall comply with the requirements of Section 204 of the Florida D.O.T. Specifications. Tests necessary to determine compilance with Section 204 shall be performed prior to placing the material. These tests include:

- Soundness Loss, Sodium, Sulfate: AASHTO T 104. Percent Wear: AASHTO T 96 (Grading A). Sleve Analysis. Limerack Bearing Ratio Value.

The results of these tests shall be submitted to the engineer for approval. After the approval of the motivaria, the graded appropria base course shall be placed in accordance with Section 20%. The base startment of the province of the pr

ASPANE SASC ONRSE Shall consylve the project of the

NOTE: STORMWATER DRAINAGE SHALL BE CONTROLLED DURING ALL PHASES OF CONSTRUCTION.

SPECIFICATION: ASPHALT CONCRETE PAVING

SCOPE: This section includes materials and work required for installation of flexible asphaltic concrete pavement for parking and drive areas shown on the plans.

APPLICABLE PUBLICATIONS: The publications listed below form a part of this specification to the extent indexenced. The publications shall be the most current lisse and or inferrent to in the content indexenced. The publications are shall be all the publications of the publication of the publicatio

Section 901 Course Aggregate Section 902 Fine Aggregate Section 916 Bituminous Materials Section 917 Mineral Filler

Section 300 Bituminous Treatments, Surface Courses and Concrete Pavement

Section 331 Type S Asphalt Concrete B. American Society for Testing and Materials (ASTM) Publications

D 1557 Moisture-Density Relations of Solis and Soli-Aggregate Mixtures Using 10 lb (4.54 kg) Rammer and 18-in. (457 mm) Drop.

D 1559 SUBMITTALS:

- A. Asphalt Design Mix:
 Before any asphalt surface is constructed, submit two copies of each of the actual design mix to the Engineer and Owner.
- Moterial Certificates: Furnish copies of materials certificates signed by material produces and Contractor, certifying that each material item complies with, or exceeds specified requirements.
- D. Aggregate gradation tests.

MATERIALS:

- A. Mineral Filler: Rock dust, hydraulic cement, or other inert material complying with section 917 of the Florida DOT Specifications.
- B. Asphalt Cement: The bituminous material shall be AC-20, viscosity grade and comply with section 916 of the Florida DOT Specifications.

- E. Prime Coat and Tack Coat: The bituminous material for the Prime Coat shall be MC-70. The bituminous material for the Tack Coat shall be AC-20, or Emulatified asphalt, grade RS-2 and comply with the requirements in Section 300 and 916 of the Ridrid DOT Specifications.
- Asphalt shall conform to the requirements for Type S Asphalt as Indicated in Section 331 of the Florida DOT Specifications.
- Mix shall be within sleve analysis and bitumen range given in Section 331 of the Florida DOT Specifications.

- 5. Once design mix has been occepted by Engineer and Owner, sieve analysis tolerances Indicated in Table 331-5 are allowed using construction. If sleeve analysis analysis values fall outside these tolerances, design mix must be resubmitted for acceptance.

BASE COURSE PREPARATION:

Posts Works, resembles to the base course, the top 12 inches of subgrade shall be compact to a minimum sell density of 955 of the Modified Prector Test Density (ASTM ISST). The manimum sell density of 955 of the Modified Prector Test Density (ASTM ISST), and the social minimum self-density of 955 of 95

- Remove losse material from compacted base material surface immediately before applying prime coat.
- C. Proof roll prepared base material surface to ensure unstable areas have been corrected and are ready to receive paving.

CONTINUED ON NEXT COLUMN

- Apply bituminous prime cost to base material surfaces where asphaltic concrete paying will be constructed.
- Apply bituminous prime coat in accordance with Section 300 of Florida DOT Specifications.
- Apply at minimum rate of not less than 0.15 gal./sq. yd. over compacted base material. Apply material to penetrate and seal, but not flood, surface.
- Tack coat shall be applied in accordance with Section 300 of Florida BOT Specifications. Apply to contact surfaces of previously constructed asphalt or portland cement and concrete and surfaces abutting or projecting into asphalt concrete powement.
- 3. Distribute at rate of 0.08 aal,/sa, vd. of surface.
- 4. Allow to dry until at proper condition to receive paving.

- Place asphalt concrete mixture on prepared surface, spread, and strike off. Spread mixture at the following minimum temperatures:
 - When ambient temperature is between 40 degrees F and 50 degrees F: 285 degrees F.
- 2. When ambient temperature is between 50 degrees F and 60 degrees F: 280 degrees F
- Place inaccessible and small areas by hand. Place each course to required grade, cross-section, and compacted thickness.
- Place in strips not less than 10'-0" wide, unless otherwise acceptable to the Contracting Officer.

- 1. Construct Joints between old and new povements as detailed in the plans.
- Joints between successive days' work shall be constructed to ensure continuous bond between adjoining work.
- Construct joints to have same texture, density, and smoothness as other sections of asphalt concrete course.
- 4. Clean contact surfaces and apply tack coat.

- Each lift of asphalt shall be compacted to a minimum of 98% of the Marshall test ASTM D1559).

- Accomplish breakdown or initial rolling immediately following rolling of joints and outside edge.

- 1. Follow breakdown rolling as soon as possible, while mixture is hot.
- 2. Continue second rolling until mixture has been thoroughly compacted.

- Perform finish rolling white mixture is still warm enough for removal of roller marks.

- 1. Remove and replace paving areas mixed with foreign materials and defective areas.

- After final railing, do not permit vehicular traffic on pavement until it has cooled and hardened.
- Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked.

- An independent Testing Laboratory, selected and paid by the contractor shall be retained to perform construction testing of in-place asphalt courses for Asphalt Extraction, Aggregate gradation, Marshall Stability, thiskness and surface smoothness.
- C. Surface Smoothness: Testing shall be performed on the finished surface of each asphalt concrete course for smoothness, using 10 -0° straightedge applied parallel with, and at right straight edge between any two contact plaints affain and exceed 1/4°. Once surface areas at intervals necessary to eliminate promise areas. Repair or remove and replace unacceptable paying as directed by the Controlling Officer.

SPECIFICATION: PORTLAND CEMENT CONCRETE PAVING

APPLICABLE FREULATIONS This publications liked later form a part of this section for the sector between the backets are the backets by the back designation only. The following are minimum requirements and shall power except that all backs stack, and/or federal cases and architects and a govern when their requirements are in excess hereof. All concrete construction shall be in accordance with significant sections of the modifical previous of images of their specifications for fine and are their governments of under the constitution of the section of the constitution of the section of the section

CONTINUED ON NEXT COLUMN

A. Florida Department of Transportation Specifications:

Section 345 Portland Cement Concrete Cement Concrete Pavement Section 350

Section 520 Metal Accessory Materials for Concrete Povement and Concrete Structures

A 615 Deformed and Plain Billet Steel Bars for Concrete Reinforcement

Moisture-Density Relations of Soils and Soil-Aggregate
Mixtures Using 10-lb. (4.54 kg) Rammer and 18-lin. (457 mm)
Drop.

Preformed Expansion Joint Filler for Concrete Paving and Structural Construction. (Nonextruding and Resilient Bituminous Types) D 1751

SUBMITTALS:

A. Material Certifications: Furnish copies of materials certificates signed by material producer and Contractor, certifying that each material item compiles with, or exceeds, specified requirements.

MATERIALS:

Steel, wood, or other suitable material of size and strength to retain harizontal and vertical alignment until removal. Use straight forms, free of distortion and defects.

C. Welded Wire Mesh;

D. Reinforcing Bars: Deformed steel bars, ASTM A 615, Grade 40. Reinforcing bars shall be free from rust, dirt, foreign matter and shall not be stored directly on the ground. Deformed steel bars shall comply with Section 931 of the Florida DOT Specifications.

F. Concrete Materials:

Resilient premoided bituminous impregnated fiberboard units complying with ASTM_D1751. Joint fillers shall comply with Section 932 of the Florida DOT

A. Design mix to produce normal weight concrete consisting of Portland cement, aggregate, water-reducing or high-range water reducing admixture (super-plasticizer), air-entraining admixture and water to produce following properties:

Compressive Strength: Minimum 3,000 psi for ourb and walkways and 4,000 psi for povement, at 28 days. In addition, concrete for povement shall have a minimum modulus of rupture of 600 psi.

2. Slump Range: 3"-5".

3. Air Content: 3% to 6%.

PREPARATION:

- A. Surface Preparation: Remove loose material from compacted base material surface immediately before placing concrete.
- B. Compact the top 12 inches of subgrade to a minimum soil density of 85% for the Modified Protector Test (ASTM DISOS) to result in a minimum modulus of subgrade reaction (s) of 150 ps/fin. Prod-only prepared base moderal surface to works for unsides oness. The poding was compacted to the subgrade of the base material shall be completed prior to the piacement of the points.

CONCRETE INSTALLATION

- Set forms to required grades and lines, rigidly broced and secured. Install sufficient quantity of forms to allow continuous progress of work and so that forms can remain in place at least 24 hours after concrete placement.
- A. Top of forms not more than 1/8" in 10'-0".
- B. Vertical face on longitudinal axis, not more than 1/4 in 10-0.

- 1. Locate, place, and support reinforcement to ensure compliance with plans.
- Comply with requirements of Sections 345, 350, and 520 of Florida DOT Specifications for mixing and placing concrete.
- Do not place concrete until base material and forms have been checked for line grade. Moisten base material if required to provide uniform dempend condition time concrete is placed. Concrete shall not be placed caround manifoles or other structures until they are at the required finish elevation and alignment. 3. Place concrete using methods, which prevent segregation of mix. Consolidate concrete along face of forms and adjacent to transverse joints with internal abrator. Keep vibrator away from joint assemblies, reinforcement, or side forms. Consolidate with care to prevent dislocation of reinforcing, dowels, and joint devices.

D. Curbs and Gutters:

1. Automatic machine may be used for curb and auther placement at Contractor's option. Machine placement must produce curbs and guiters to required cross section, lines, grades, finish, and jointing as specified for formed concrete. If results are not acceptable, remove and replace with formed concrete as specified.

CONTINUED ON NEXT SHEET

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Checked: MCS _12

Drawn: MTM

- Weakened-Plane (Contraction) Joints:
- B. Sidewalks shall have contraction bints at 5'-0" a.c.
- C. Construct weakened-plane joints for depth equal to at least 1/4 concrete
- 2. Tooled Joints:
- A. Form weakened-plane joints in fresh concrete by grooving top portion with recommended cutting tool and finishing edges with jointer.

- C. Expansion Joints:
- Provide premoided joint filler for expansion joints abutting concrete curbs, catch basins, manholes, inlets, structures, walks, and other fixed objects.
- 2. Locate expansion joints at 40'-0" o.c. maximum for each payement lane or for
- Extend joint fillers full-width and depth of joint, and not less than 1/2" or more than 1" below finished surface where joint sealer is indicated.
- Furnish joint filler in one-piece lengths for full width being placed, wherever possible, where more than one length is required, lace or clip joint filler sections together.
- Exterior pavement joint sealants shall be composed of a non-priming pourable, self-leveling type polyurethane sealant, such as grey shep-calk, or approved equal suitable for use in powements and sidewilks.

CONCRETE FINISHING:

- A. After striking-off and consolidating concrete, smooth surface by screeding and floating. Adjust floating to compact surface and produce uniform texture.
- B. After floating, test surface for trueness with 10"-0" straightedge (maximum deviation of 1/4 Inch). Distribute concrete as required to remove surface Irregularities, and refloat repaired areas to provide continuous smooth finish.
- Work edges of slabs, gutters, back top edge of curb, and formed joints with an edging tool, and round to 1/2" radius. Eliminate tool marks on concrete surface.
- After completion of floating and troweling when excess moisture or surface sheen has disappeared, complete surface finishing as follows:
- 1. Curbs, Gutters, and Walks:
- Broom finish by drawing fine-hair broom across concrete surface perpendicular to line of traffic. Repeat operation if required to provide fine lexitude.
- 2. Inclined Slab Surfaces:
- Provide coarse, nonslip finish by scoring surface with stiff-bristled broom perpendicular to line of traffic.
- A. Burlap finish by dragging seamless strip of damp burlap across concrete perpendicular to line of traffic. Repeat operation to provide gritty texture.
- E. Do not remove forms for 24 hours after concrete has been placed. After form removal, clean ends of joints and point up any minor honeycombed areas. Remove and replace areas or section with major defects, as directed.
- F. Protect and cure finished concrete paying in accordance with "Florida Department of Transportation Specifications for Road and Bridge Construction" section 350-13.

- A. Repair or replace broken or defective concrete as directed.
- B. Protect concrete from damage until acceptance of work. Exclude traffic from povement for at least 14 days after placement. When construction traffic is permitted, maintain povement as clean as possible by removing surface stains and splitage of materials.
- Sweep concrete povernent and wash free of stains, discolorations, dirt, and other foreign material just prior to final inspection.

SPECIFICATION: FENCING

The Contractor shall install fencing as shown on the plans and in accordance with the manufacturer's brochure. The following are minimum requirements and shall govern except that all local, state and/or federal codes and ordinances shall govern when their requirements are in excess hereof.

MATERIAL CERTIFICATES:

Furnish copies of materials certificates signed by material producer and Contractor, certifying that each material item complies with, or exceeds, specified requirements.

MATERIALS:
All molecules and equipment becoparated in the work shall be rear, clean, and tree of visual All molecules and tension sections and tension which will be of good quality, free from feaths and defects and in conformance with the Controot Documents. All work not conforming to these requirements may be considered defective.

Height shall be as required as shown on the construction plans

Fabric shall be #9 gauge, chain link open hearth steel wire, hot-dipped galvanized after wearing with minimum coating of 2.0 ounce of zinc per square faot or duminum coating with .40 ounces per square foot, woven in 2° diamond mesh.

Line post, top, intermediate and bottom rails, shall be 1 $5/8^{\circ}$ 0.D. steel pipe, weight 2.27 lbs per fact, hot-dipped galvanized. Set 36° deep in concrete.

Terminal, corner, gate and pull posts shall be 3" O.D. pipe, 5.79 lbs. Set 36" deep in

Concrete for setting posts shall be Portland Cement complying with ASTM C-150, aggregates complying with ASTM C-33, and clean water. Mix materials to obtain concrete with a minimum 28-day compressive strength of 2,500 psi.

Stretcher bar bands, tie wires, hag rings, couplings, nuts, stretcher bars, bolts, and miscellaneous fastening devices shall be manufacturer's standard for heavy construction fence. Swing gates shall consist of the following components.

2° O.D. steel pipe 2.72 lbs. per foot, hot-dipped galvanized. Each frame to be equipped with 3/8° diameter adjustable truss rods. Hinges shall be hot-dipped galvanized pressed steel or malleable iron to suit gate size, non-lift-off type. Hinges shall be offset to permit 180 degrees opening. Provide one (1) pair of hinges per lead.

Latch shall be forked type to permit operation from either side with provisions to lock both leaves with podlock.

ACCEPTABLE MANUFACTURERS: Cyclone Fence, Page Fence, and Hackney Corporation

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SPECIFICATION: TRAFFIC STRIPING AND PAINTING

The Contractor shall point traffic striping as shown on the plans. The following are minimum requirements and shall govern except that all local, state and/or factors access and orderioces shall accordance with section 17.0, 71 and 97 of the "fronte lappartment of transportation Specification for Road and Bridge Construction" and "Florida Department of Transportation Roadway and Traffic Department of Transportation Roadway Road

MATERIAL CERTIFICATES:
Furrish copies of materials certificates signed by material producer and Contractor, certifying that each material Item compiles with, or exceeds, specified requirements.

TRAFFIC STRIPING AND PAINTING: Traffic control markings shall be marked on pavement as indicated on drawings.

Point shall be in seeded containers that plainly show the designated name, formula or specification number, both number, color, date of manufacture, manufacturer's name, formulation number, and directions, oil of which shall be plainly legible to the time of use. The point shall be homogeneous, assly strived to amooth consistency, and shall allow no hard settlement or other objectionable divanceriseties affining a storage period of six mombus.

All modelses, both, and explament used in performance of the work shall be operated and ministrated in selection of performance of the work shall be operated and ministrated in selection of point to promise particles and to complete for models commonly used for application of point to promise farthers and the occeptation for models toose and sprople point operations, and with the compile of application point uniformly of the coverage specified. Sundistantly equipment shall be provided for invalved for claiming surfaces to be monthly considerable policy of the provided for invalved for claiming surfaces and monthly considerable policy of the provided for the discussion provided monthly considerable policy of the provided for the discussion provided monthly considerable policy of the provided for the discussion provided monthly considerable provided and provided and provided monthly considerable provided provided provided to the provided of the discussion of the provided for the provided for the discussion of the provided for the provided for the discussion of the provided for the provided for the discussion of the provided for the provided for the discussion of the provided for the provided

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Priorit shall be applied to deep, dy principe, and unless otherwise approved, only when oir and shall be applied to deep, dy prioritise, and unless otherwise approved, only when oir and shall be marketines within these same finitis. Post shall be applied presentately with opportuned appliants of trade of coverage particles sheen. The Contractor shall be provided and the contractor shall be contracted to the contractor shall be applied preventately within a contract of the contractor shall be shall be a shall be applied to the contractor shall be shall be shall be applied to the contractor shall be shall be shall be applied to the contractor shall be shall be shall be applied to the contractor shall be sha

Sultable warning signs shall be placed near the beginning of the worksite and well ahead of the worksite for olerting approaching traffic from both directions. Small markers shall be placed ulong nearly pointed learn every pointed learn every pointed learn every pointed was some one of the properties. Pointing equipment shall be marked with large worning signs indication that slow moving pointing equipment is in operation.

SPECIFICATION: WATER DISTRIBUTION SYSTEM

The Contractor shall provide and install all materials for a potable water distribution system as shown on the drawings and in this specification. In addition, he shall obtain all permits and conduct all tests required by local, state and federal authorities and as specified on these drawings.

MATERIALS: All materials an unless otherwise in conformance be considered d

Less than 4" inches in diameter: Polyvinyl Chloride (PVC) 160 psi, SDR 26 Polyethylene pipe 160 psi, SDR 9 Polyethylene tubing 200 psi, SDR 9

ASTM D-2241 ASTM D-3350 & ASTM D-2239 ASTM D-3350 & ASTM D-2237

Greater than 4" inches in diameter: Polyvinyl Chloride (PVC) 150 psi Ductile Iron (Class 50)

AWWA C-900 (DR 18)

Joints for PVC pipes: Joints shall comply with ASTM D-3139 No solvent cements or toxic lubricant will be allowed. Expansion capability will be provided.

Cate Valves:

Valves shall comply with AWWA C-509

200 pai iron body, bronze mounted, Non-rising stems with square operating nuts and a sultable valve box.

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Contractor shall conduct hydrostatic pressure and leakage tests as follows: Apply 150 pail or 150% of the working pressure whichever is greater to the test line. Duration of the pressure test shall be at least two (2) hours. After 1/2 hour, check pressure, if pressure has dropped, inspect for leaks and correct as required. Report tests until there are no leaks or pressure loss. Pressure must half for two hours.

NOTE: The contractor shall notify the utility company and the Engineer at least 48 hours prior to conducting pressure and leakage tests. A $3/4^{\circ}$ hose bibb connection will be required for gauge connection

The Centroctor shall sterilize the lines by chiarinating at 40 to 50 ppm, injecting at a carporation stop and operating all values and accessories. Flust system. Subsequent tests on replacement yeter shall store a chemical and bacterial countries of chemical control control of the interest. On the control of the control of the interest.

NOTES: All water piping and fittings used shall be National Sanitation Foundation (N.S.F.), approved for national water.

A minimum separation of 10 ft. horizontal, outside to outside and 18 inches vertical is required between all water lines and the sanitary sever system.

In accordance with rules of the Florida Department of Environmental Protection (DEP), Chapter 62-555, the Engineer of record will be responsible for observation of construction completion of construction completion of construction. The completion of construction completions are constructed to assert completions will pleas and specifications, said Engineer will report to DEP upon completion of construction and cleaning and disinfecting described above before the system can be placed in service.

All PVC potable water lines and services will be marked with No. 14 copper insulated tracer wire to enable location with a Ferrous Metal Detector. The tracer wire will be placed 12 inches above and throughout the length of all such pipe.

PRE HYBRATS:

All 70 that have been been been projected with the 2-1/2 high horse requires and one and 1/2 feet compression and except been been projected for 150 bits working pressure or 500 bits hydrostotic pressure on smill contains to be locate specifications of the AWMA. All resides parts and be before. All loss treeds shall be lotted specifications of the AWMA all resides parts and be over when the locate compression better discussed in the except pressure. Implements shall have not less than 0.5-1/4 high view spenigo. All hydronis shall be supplied with controlled the shall be pressed to except the supplied with controlled the pressure. In the pressure is pressure that the pressure is the pressure in the pressure in the pressure is pressure to the pressure in the pressure in the pressure is pressure in the controlled specification of the first order of the first order of the pressure is pressure in the pressure in the pressure in the pressure is pressure in the pressure in the pressure in the pressure in the pressure is pressure in the pressure in the pressure in the pressure is pressure in the pressure in the

SPECIFICATION: SANITARY SEWER SYSTEM

The Contractor shall provide and install all gravity sewer material shown on the drawings and in this specification. In addition, he shall obtain all permits and conduct all tests required by local, state and federal authorities and as specified on these drawings.

MATICALAS:
All materials and equipment incorporated in the Work shall be new, clean, and free of visual defects unless otherwise specified, and that all Work will be of good quality, free from faults and defects and n conformace with the Contract Documents. All Work not conforming to these requirements may be considered defective.

Plping: PVC Gravity Sewer ASTM D=3034, SDR=35
Ductile Iron Pipe (D.I.P.) ANSI A21.51
PVC Force Mains (160 psi) ASTM D=1784 and D 2241

Joints: PVC, Rubber Ring ASTM D-1869 D.I.P. Joints, Rubber Gosket ANSI A21.11 NOTE: ALL JOINTS TO BE BELL AND SPIGOT TYPE.

Concrete: Poured or Pre-cast 4000 psl at 28 days:

INSTALLATION:

ALLATONS (set) with of lood, static and feature regulations. The Contraster and privile Security (set) and the Contrast and Security (set) and consecution. Therefore statil is reportly preporte, pipe strill be supported over the full length and bell holes noted day as respired. The contrast is set to the supported over the full length and bell holes noted day as respired. The contraster will be supported over the full length and bell holes noted day as respired. The contraster will notify the Engineer of the set of th

A minimum separation of 10 ft. horizontal measured outside to outside and 18 inches vertical is required between sanitary sewer lines and all water lines.

When trench excavation depth exceeds five feet, the Contractor shall provide trench protection (shields, sloping, sharing, etc.) and shall comply with OSHA Standard 29 CFR, Section 1926.850 Subpart P.

In occordance with rules of the Florido Department of Environmental Protection (DEP), Chapter 62-604, the Engineer of record will be responsible for observation of construction of the Saintly Saves System. In Engineer SHAL to notified at commencement and discontinuous control of the Saintly Saves System. In Engineer SHAL no notified at commencement and discontinuous control of the Saintly Saves System. In Engineer will report to DEP upon completion of construction before the system can be placed in service.

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Lockings lettle by efficiellin and/or infiltration will be made on all pixe. The Engineer shall have the collain determining which lest shall be employed. Generally, if the granulated has been been shall be sent to be shall be shal

Deflection testing shall be done on all flexible pipe at the direction of the Engineer. Testing shall be done using a mandrel having a diameter equal to 95 percent of the inside diameter of the pipe. When a deflection device is used in lieu of the mandrel, such device shall be approved by the Engineer prior to use. No pipe deflection shall exceed 5 percent.

FORCE MAINS: The Contractor shall conduct hydrostatic pressure and leakage tests as follows:

Apply 100 pai or 150% of the working pressure, whichever is greater, to the test line. Burstion of the pressure test shall be at least two (2) hours. After 1/2 hour, check pressure, if pressure has dropped, inspect for lecks and correct as required. Repeat tests until there are no lecks or pressure loss. Pressure must hold for two hours.

NOTE: The contractor shall notify the utility company and the Engineer at least 24 hours prior to conducting pressure and leakage tests.

Force mains shall have thrust blocks designed for 100 PSI test pressure. Force Mains shall be colored other than white to distinguish from water lines. Force Mains in the right-of-way shall have 30 inches (minimum) cover over the crown.

All sanitary sewer force mains will be marked with No. 14 copper insulated tracer wire to enable location with a Ferrous Metal Detector. The tracer wire will be placed 12 inches above and throughout the length of all such pipe.

Setting Manhole Castings: The frame of the casting shall be set in a full mortar bed composed of one part Portland Cement to two parts of fine aggregate.

Concrete: The minimum compressive strength required at twenty-night days is 4,000 pounds per square inche. The minimum ornaunt of water shall be used to produce a weekbell mind shall not exceed six (6) U.S. Gallons per sack of cement. Concrete shall conform to ASTM Specification ASTM C-94.

Pre-cast Reinforced Concrete Manhole Sections: Pre-cast reinforced concrete manhole sections shall conform to ASTM Specification C-478. All joints for pre-cast sections shall be approved by the Engineer.

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Castings: Cask then fames and covers shall conform to the drawings in all essentials of design. All castings shall be made of claim, even grain, tough argo cost from. The quality of rine in the castings shall conform to the casting shall conform the casting shall provide the smooth, true to pattern, and free from projections, sand holes, or defects. A rolled work SEMEY shall be cast on the super non-adial surface of all mandate covers. The partial of the times and cover which forms the cover sets that it is mobiled so that no rodding of the forms and cover which forms the cover sets that it is mobiled so that no rodding the covers are considered to the covers of the covers and the covers and the covers of the covers and the covers of the covers and the covers of the covers and the covered by the Engleter. A shop drawing of the mathole frome and cover must be opposed by the Engleter.

refere—Proofing: Belt converte out pre-most sections taken proofs shall be polities on the contain dath offer the contain distributes on the contain distributes the contain distributes the contain distributes the contain distributes the contained the con

ERAL: Crout all riser joints and entry pipes. Provide neat cement seals for pre-cost units. Minimum redus allowed is 20 inches. Invert grouting shall be uniform and smooth-sloped to center line of pipe.

NOTE: Roof drains, foundation drains and all other clean water connections to the sanitary sever system are prohibited.

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SPECIFICATION: STORM SEWER SYSTEM

The Contractor shall provide and install all storm sever material shown on the drawings and in this specification. In addition, he shall obtain all permits and conduct all tests required by local, state and federal autorities and as specified on these drawings.

MATERALS: All materias and equipment incorporated in the Work shall be new, clean, and free of visual defects unless otherwise specified, and that all Work will be of good quality, free from faults and defects and in conformance with the Contract Documents. All Work not conforming to these requirements may be considered defective.

Corrupted Polyethylene Piete.

Shall corestly with section 545 of the latest edition "Titorida Department of Teresportation Shall corestly with section 545 of the latest section 545 of the latest shall be seen section 545 of the latest shall constructed "latest smoothed hards. Figure 12 subset to 24 indexes in diameter shall compay with ASTM—Todo on ASTM—Todo "Joints shall be by means of direpted bond." If used outside of dry wells, joints and be wroped in fittercion 2 feel in width and with 2 feet of weeks por the diameter. This piet, in the perforted form, sock. Perforations shall be 1/4 hard diameter and spaced 10 inches on center in the valley of the corruptions.

Polyphy-District Ties
Shall comply this section 948 of the latest edition "Nordo Department of Transportation
Specifications for Road and Biddge Construction unless modified herein. BigNythy-Charles
shall be presented to the present t

Reinforced Concrete Pipe:
Shall comply with requirements of ASTM C 76, Class III, unless otherwise indicated on the Drawings, and shall be installed with rubber gasketed joints complying with ASTM C 443. Install rubber gaskets in sirtic accordance with pipe manufacturer's recommendations.

Marcholox:
Proposit reinforced concrete monthole sections shall conform to ASTM Specification C-478.
Construct marcholes of precost concrete sections as required by Drawlogs to size, shape, and depth indicated, but never less than 4-0" inside diameter. All joints for precost sections shall be approved by the engineer.

Inlets/Cotch Basins:
Precest reinforced concrete inlets/Cotch Basins sections shall conform to ASTM Specification
C-478. Construct inlets/Cotch Basins of precest concrete construction as required by
Drawings to size, shape, and depth indicated.

Main and Lateral Pipes:
Neatly out off main and lateral pipes flush with Inside of manhale or inlet where they enter structure walls. Dress all irregularities and rough edges with non-shrinking grout (inside and outside).

Where pipes enter or exit manholes, a "Kor-N-Seal" molded neoprene boot with stainless steel internal and external bands as manufactured by the National Pollution Control Systems, Inc., Nativa, New Hompshile, or a optiventione joint with a short transition joint as monufactured by Moorform Corporation, Centralia, Illihola, or an approved equal (or superior) connection shall be provided in shall be provided in shall be provided in shall be provided in the shall be provided in the shall be provided in the shall be provid

superior) connection and the provided.

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Plastic Filter Fabric Plastic Filter Fabric shall be the non-woven type and shall comply with sections 514 and 985 of the latest action "Thorks Department of Transportation Specifications for Road and Bridge Construction" unless modified have reconstruction.

Concrete:
Concrete shall comply with sections 345 of the lotest edition "Florido Department of Transportation Specifications for Road and Bridge Construction unless modified herein. Minimum compressive strength at 28 days shall be 4,000 psi.

DETENTION AREAS AND GRASSED SWALES:

Swales must be londscaped with seeding, sodding, or sprigging, which does not inhibit the infiltration rate of the soil. Engineer requires 46 hours notice prior to landscaping of infil

The system will require periodic maintenance for continued proper operation. This will include, as a minimum: A) removal of silt debris from surface inflitration areas and catch basins, and B) maintenance of vegetative cover in surface inflitration areas.

STORMANDS DYMELLS.

Threater and the constructed to the dimensions as detailed in the plane. The washed grounds material shall have of a valer after of not less than 0.4 and the gradular shall conform to section 0.01 of the testest existing. Threating powerfured in Chrasoportation Specifications for Road and Strige Construction. The dry well shall be completely expect to severe the state of the complete of the state of

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The Contractor from comply with a libed, state and federal regulations. The Contractor shall be controlled to the shall be shall be an expected from the plant piece and consenders. The chee shall be properly reported, piece shall be supported own fits full length and that libes from daily do replied. No piece will be laid in unsuitable weather or in water. The Controller will wrift as liked dimensions one report of disconsensive from the plant piece of the plant of the state of the plant piece of the state of the plant piece of the plant piec

A minimum separation of 10 ft. horizontal measured outside to outside and 18 inches vertical is required between storm sewer lines and all water lines.

In occordance with rules of the Florida Department of Environmental Protection (DEP), Chapter 62–25, the Engineer of record will be responsible for observation of construction of the Stam Same System. The Engineer SHALL be notified to commencement and Engineer will report to DEP upon completion of construction before the system can be placed in service.

Non-Perioded Storm Sees:

Non-Perioded Storm

Deflection testing shall be done on all flexible pipe at the direction of the Engineer. Testing shall be done using a mandrel having a diameter equal to 95 percent of the inside diameter of the pipe. When a deflection delice is used in less of the mandrel, such device shall be approved by the Engineer prior to use. No pipe deflection shall exceed 5 percent.

EROSION PROTECTION:

New and existing drolnage structures shall be protected from soil erosion sedimentation by placing balled hay ground structures.

Soil erosion sedimentation shall be controlled during all phases of construction.

ALL SOIL EROSION SEDIMENTATION SHALL BE RETAINED ON SITE.

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Job No.: 2006-252-B Date: 20 AUG 2024 Fld. Vol.: N/A Scale: NTS Disk No.: 06242B-MISC Designed:MCS Drawn: MTM

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