CIVIL AND LANDSCAPE PERMIT PLANS FOR **GUSTAFSON PARK**

PREPARED FOR:

CITY OF GREEN COVE SPRINGS 321 WALNUT STREET GREEN COVE SPRINGS, FL 32043

DEVELOPER:

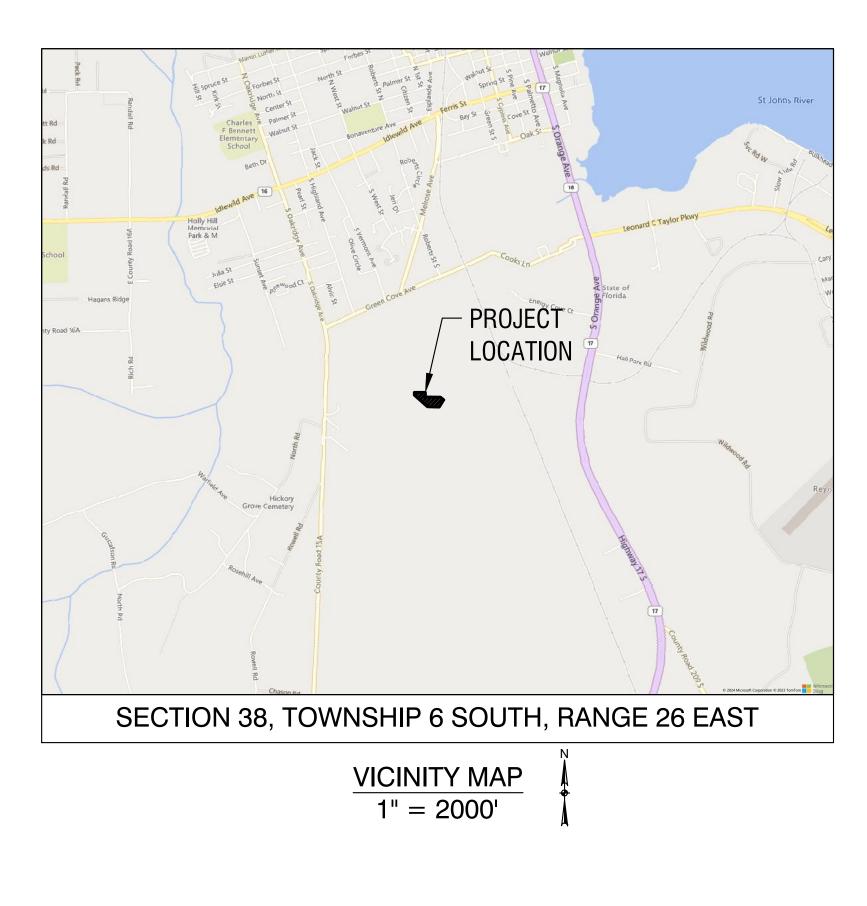
DR. HORTON, INC. 4220 RACE TRACK ROAD ST. JOHNS COUNTY, FL 32259

ENGINEER AND LANDSCAPE ARCHITECT:



9995 GATE PARKWAY N, SUITE 200 JACKSONVILLE, FLORIDA USA 32246 PHONE 904.730.9360 WWW.HALFF.COM FL CA 33380FL LC 26000645

COUNTY ROAD 15A, GREEN COVE SPRINGS 32043 CLAY COUNTY, FL

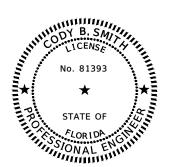


SHEET LIST TABLE					
SHEET NUMBER	SHEET TITLE				
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C-001	SIGNATURE SHEET				
C-002	GENERAL NOTES				
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C-004	EXISTING CONDITIONS & DEMOLITION PLAN				
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C-100	OVERALL SITE PLAN				
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TM-101	TREE MITIGATION CALCULATIONS				
LS-200	LANDSCAPE PLAN				
LS-201	LANDSCAPE CODE REQUIREMENTS				
LS-202	LANDSCAPE NOTES AND SPECIFICATIONS				

PROJECT NAME GUSTAFSON PARK								
					9995 GATE PARKWAY N, SUITE 200	JACKSONVILLE, FLORIDA USA 32246 PHONE 904 730 9360 WWW HALEF COM	FL CA 33380 FL LC 26000645	
REVISIONS	NO. DATE DESCRIPTION							
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THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY CODY B. SMITH ON THE DATE ADJACENT TO THE SEAL.

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CODY B SMITH Digitally signed by CODY B Date: 2024.02.14 13:20:59 -05'00'

HALFF ASSOCIATES, INC. 9995 GATE PARKWAY N., SUITE 200 JACKSONVILLE, FL 32246 CERTIFICATE OF AUTHORIZATION: 33380 CODY B. SMITH, FL P.E. NO. 81393

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61GI5-23.004, F.A.C.

	SHEET LIST TABLE
SHEET NUMBER	SHEET TITLE
C-002	GENERAL NOTES
C-003	GENERAL NOTES
C-004	EXISTING CONDITIONS & DEMOLITION PLAN
C-005	EROSION & SEDIMENTATION CONTROL PLAN
C-100	OVERALL SITE PLAN
C-101	SITE PLAN
C-102	SITE STANDARD DETAILS
C-103	SITE STANDARD DETAILS
C-200	GRADING & DRAINAGE PLAN
C-201	GRADING & DRAINAGE PLAN
C-202	STORM DRAINAGE STANDARD DETAILS
C-300	UTILITY PLAN
C-301	WATER AND SEWER GENERAL NOTES
C-302	WATER AND SEWER STANDARD DETAILS
C-400	E&SC GENERAL NOTES AND DETAILS
C-401	SWPPP GENERAL CONDITIONS
C-402	SWPPP FORMS

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:



Jordan P Limburg 13:51:15-05'00'

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HALFF ASSCOIATES, INC. 9995 GATE PARKWAY N., SUITE 200 JACKSONVILLE, FL 32246 JORDAN P. LIMBURG, RLA FL LA-6667021

THE ABOVE NAMED REGISTERED LANDSCAPE ARCHITECT SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G10-11.011, F.A.C.

SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
TM-100	TREE MITIGATION PLAN
TM-101	TREE MITIGATION CALCULATIONS
LS-200	LANDSCAPE PLAN
LS-201	LANDSCAPE CODE REQUIREMENTS
LS-202	LANDSCAPE NOTES AND SPECIFICATIONS

PROJECT NAME		ADA DAPK		PREPARED FOR CITY OF GREEN COVE SPRINGS				
					9995 GATE PARKWAY N, SUITE 200	JACKSONVILLE, FLORIDA USA 32246 PHONE 904 730 9360 - WWW HALEE COM	FL CA 33380 FL LC 26000645	
REVISIONS	D. DATE DESCRIPTION							
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GENERAL CONSTRUCTION NOTES	TESTING SCHEE	DULE	
A. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES, THE	ITEM	TEST	TEST FREQUENCY
ENGINEER, AND THE ARCHITECT. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE ANY NECESSARY INSPECTIONS ACCORDING TO AGENCY INSTRUCTIONS.		OPTIMUM MOISTURE/MAXIMUM DENSITY	PER SOIL TYPE
3. CONTRACTOR IS RESPONSIBLE FOR PREPARING AND PERMITTING ANY REQUIRED DEWATERING PLAN.		100% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T99-57(METHOD C) NO TOLERANCE	ONE PER 500' HORIZONTALLY, IN ONE (1) FOO LIFTS
C. ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO IN THESE PLANS SHALL BE OF THE LATEST REVISION.	EMBANKMENT	GRADATION 1-T027	1/500' SECTION PER LIFT
2. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK. ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP ARE TO BE IN ACCORDANCE WITH THE STRICTER OF CITY OF GREEN COVE SPRINGS AND FDOT		PROCTOR 1-T180	PER MATERIAL TYPE
SPECIFICATIONS (LATEST EDITION).		PROCTOR 5-525	
E. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRE-CAST AND MANUFACTURED ITEMS TO THE OWNER'S ENGINEER FOR REVIEW AND APPROVAL. PRIOR TO SUBMITTING SHOP DRAWINGS FOR APPROVAL THE CONTRACTOR SHALL CONFIRM THAT THE MOST CURRENT PLANS WERE USED TO PREPARE THE SHOP DRAWINGS AND REVIEW THE SHOP DRAWINGS TO CONFIRM DIMENSIONS, ELEVATIONS, CONNECTIONS, AND MATERIALS. FAILURE TO OBTAIN APPROVAL BEFORE	UTILITY TRENCH BACKFILL-	DENSITY 1-T238 OPTIMUM MOISTURE/MAXIMUM DENSITY	1/500' SECTION PER LIFT PER SOIL TYPE
FABRICATION AND/OR INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE.	OVER PIPELINES AND AROUND STRUCTURES FROM	100% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T99-57(METHOD C) NO	REFER TO NOTE A & NOTE B
WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTORS	R.O.W. LINE TO R.O.W. LINE	TOLERANCE OPTIMUM MOISTURE/MAXIMUM DENSITY	
AND UTILITY COMPANIES (INCLUDE LIGHTING, POWER, TELEPHONE, CABLE, GAS, IRRIGATION, ETC).	OVER PIPELINES AND AROUND STRUCTURES	95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T99-57(METHOD C) NO TOLERANC	
3. THE WATER, SANITARY SEWER, AND STORM DRAINAGE FACILITIES ARE SUBJECT TO THE REVIEW AND APPROVAL OF APPLICABLE AGENCIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY ADDITIONALLY REQUIRED PERMITS IN ORDER TO PERFORM THE PROPOSED WORK.	OUTSIDE R.O.W. LINE	OPTIMUM MOISTURE/MAXIMUM DENSITY	PER SOIL TYPE
H. IT WILL BE NECESSARY TO EXAMINE, COORDINATE AND ADJUST ACCORDINGLY THE PROPOSED LOCATIONS OF THE VARIOUS COMPONENTS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT COORDINATION DRAWINGS (SHOP DRAWINGS) SHOWING PIPE SIZES, STRUCTURES, AND		MINIMUM 40 LBR	PER MATERIAL TYPE. REFER TO NOTE D
ELEVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SCHEDULING AND COORDINATION OF THE UNDERGROUND WORK ASSOCIATED WITH THIS PROJECT.	STABILIZED SUBGRADE	MINIMUM 20 LBR (FOR SOIL CEMENT ONLY)	SAME AS FOR 40 LBR. REFER TO NOTE D
. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY ENVIRONMENTAL PROTECTION AGENCY (EPA) PERMITTING WHERE REQUIRED. THIS INCLUDES FILING A NPDES		98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70) NO TOLERANCE	REFER TO NOTE C
NOTICE OF INTENT OR NOTICE OF TERMINATION, IF REQUIRED.		OPTIMUM MOISTURE/MAXIMUM DENSITY	PER SOIL TYPE
ENGINEER OF RECORD.	BASE (OTHER THAN SOIL CEMENT	MINIMUM 100 LBR	PER SOURCE
C. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, EITHER ABOVE OR BELOW GROUND, WHICH MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR.	OR CRUSHED CONCRETE)	98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70) NO TOLERANCE	REFER TO NOTE C
ALL UNDERGROUND STORMWATER INFRASTRUCTURE AND UTILITIES (INCLUDING CONDUIT & SLEEVES) MUST BE IN PLACE, TESTED, AND AS-BUILT PRIOR TO BASE		GRADATION, ATTERBERG LIMITS	PER SOURCE
AND PAVEMENT CONSTRUCTION. CONTRACTOR SHALL PROVIDE SAID AS-BUILTS TO THE ENGINEER OF RECORD FOR PRELIMINARY REVIEW PRIOR TO PAVING. FAILURE TO FOLLOW THIS PROCEDURE MAY RESULT IN REMOVAL AND REPLACEMENT OF BASE AND/OR PAVEMENT AT THE CONTRACTOR'S EXPENSE.			
. CONTRACTOR SHALL COORDINATE PRE-CONSTRUCTION CONFERENCE WITH AGENCIES HAVING JURISDICTION (AHJ) OVER WORK TO BE PERFORMED.		OPTIMUM MOISTURE/MAXIMUM DENSITY PROCTOR 1-T180	PER MATERIAL TYPE DAILY PER MATERIAL TYPE
CONSTRUCTION SHALL ADHERE TO THE APPLICABLE GOVERNMENT AGENCY CRITERIA, PERMIT CONDITIONS, APPROVED PLANS, AND SUPPLEMENTAL SPECIFICATIONS PROVIDED BY OWNER. IN THE CASE OF CONFLICTS THE STRICTER REQUIREMENT WILL PREVAIL.	SOIL CEMENT BASE	COMPRESSIVE STRENGTH SPECIMENS	ONE SET OF THREE (3) PER MATERIAL TYPE
. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE OWNER AND ENGINEER OF RECORD CONCERNING LIMITS OF CONSTRUCTION,			DAILY REFER TO NOTE C
TRANSITIONS, ETC. WHICH MAY NOT BE SHOWN ON THESE PLANS.		TEST CORES-THICKNESS 97% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T134 - NO TOLERANCE	REFER TO NOTE C
. ANY PUBLIC LAND CORNER OR BENCH MARK WITHIN THE LIMITS OF CONSTRUCTION TO BE PROTECTED.		SLUMP TEST	ONE PER SET OF CYLINDERS
MAINTAINED UNLESS OTHERWISE SHOWN ON THE PLANS.	CONCRETE	COMPRESSIVE STRENGTH CYLINDERS	ONE SET OF THREE(3) CYLINDERS FOR 100 CUBIC YARDS OF FRACTION THEREOF
. ANY ON-SITE WELLS NOT PROPOSED TO REMAIN ARE TO BE SEALED BY A LICENSED WELL CONTRACTOR IN ACCORDANCE WITH 40D-3.517.		AIR CONTENT	ONE PER SET OF CYLINDERS
. ALL PRACTICABLE AND NECESSARY EFFORT SHALL BE TAKEN DURING CONSTRUCTION TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT MATERIAL TO INLETS, SURFACE DRAINS, WETLANDS AND LAKE AREAS. CONTRACTOR IS RESPONSIBLE FOR PREPARING, IMPLEMENTING, AND MAINTAINING A		MINIMUM LBR 130	3/STREET TO OBTAIN AN AVGERAGE OF 150
STORMWATER POLLUTION PREVENTION PLAN MEETING ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESTORATION EFFORTS THAT MAY BE REQUIRED.		LIQUID LIMIT (AS DETERMINED BY AASHTO T80) (LESS THAN 25)	PER MATERIAL TYPE
THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.	CRUSHED CONCRETE BASE	PLASTICITY INDEX (AS DETERMINED BY AASHTO T90) (LESS THAN 4)	PER MATERIAL TYPE PER LOS ANGELES ABRASION (FM-1TO90)
J. SEE FDOT DESIGN STANDARDS INDEX 001 FOR STANDARD ABBREVIATIONS DENOTED IN THIS PLAN SET.		ABRASION	(50 MIN) PER MATERIAL TYPE
V. CONTRACTOR SHALL CALL SUNSHINE 811 48 HOURS BEFORE BEGINNING EXCAVATION.		DENSITY 100% OF MAXIMUM DENSITY (AS DETERMINED BY AASHTO T-180)	PER MATERIAL TYPE
 W. CONTRACTOR SHALL NOT STORE CONSTRUCTION MATERIALS, VEHICLES, OR HEAVY EQUIPMENT NEAR WETLAND AREAS OR TREES PROPOSED TO REMAIN. X. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH OWNER'S ENGINEER WITH COMPLETE "AS-BUILT" INFORMATION CERTIFIED BY A 		AGGREGATE ANALYSIS DESIGN MIX	PER FDOT
REGISTERED LAND SURVEYOR. UPON COMPLETION, THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH A COMPACT DISK CONTAINING THE ELECTRONIC COPY		BITUMEN CONTENT	PER FDOT
		BITOMEN CONTENT	PERFUUI
PLANE COORDINATE SYSTEM) AND INCLUDE TIES TO AN ESTABLISHED LOCAL BENCHMARK. THE "AS-BUILT" SURVEY INFORMATION SHALL BE SUPPLEMENTED BY THE CONTRACTOR AS NECESSARY TO CLEARLY AND ACCURATELY REPRESENT ALL CONSTRUCTED ITEMS INCLUDING, BUT NOT LIMITED TO:	SUPERPAVE ASPHALT	THICKNESS	REFER TO NOTE C
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PLARE COORDINATE SYSTEM AND INCLUDE THE TO AN ESTABLISHED LOCAL BENCHMARK. THE "AS-BULLT" SURVEY INFORMATION SHALL BE SUPPLIEMENTED BY THE CONTRACTOR AS NECESSARY TO COLARALY AND CHEER PRESSARE FLAL CONSTRUCTION INCLUDE STEEL INFORM. CUBIT OF LIMITED TO: CORRECTE FOOL POOL OF DAVISION AND CHEER PRESSARE FLAD OS SHALL BE SHALL DE SHALL SHA	 NOTES A) TESTS SHALL BE LOCATEI VERTICALLY. FIELD DENSI- LATERALS. THERE SHALL SPIRALED IN ONE FOOT LI BACKFILL IN APPROPRIATE FOOT ABOVE THE BASE OF B) FOR FLEXIBLE PIPE (CORRI C) TESTS SHALL BE LOCATE THICKNESS. D) TESTING FOR THE SUBGR/ CENTERLINE OF THE ROAD MAY RESERVE THE RIGHT SCHEDULE OF THE AHJ AN CONFLICT BETWEEN SPECTOR, AND SHALL BE ADDITIONAL NOTE: THE AHJ RESS DEMOLITION NCE: A. CONTRACTOR TO REMOVE B. CONTRACTOR TO REMOVE B. CONTRACTOR TO REMOVE B. CONTRACTOR TO ESTABLIS C. THE CONTRACTOR SHALL I D. THE CONTRACTOR SHALL A OF OFF-SITE AT A PERM ACCEPTABLE PROVIDED E. INFORMATION TAKEN FROM F. UTILITIES TO BE PLUGGED CAPPED OR PLUGGED AN G. TREES SHOWN TO REMAIN STANDARDS. H. ALL TREE ROOTS EXISTING AREA WHERE INDICATED. I. THE CONTRACTOR SHALL WATER, SEWER, GAS, CAI J. THE CONTRACTOR SHALL IN NOT A PART OF THIS PRO K. THE CONTRACTOR SHALL IN NOT A PART OF THIS PRO K. THE CONTRACTOR SHALL IN NOT A PART OF THIS PRO K. THE CONTRACTOR SHALL IN NOT A PART OF THIS PRO K. THE CONTRACTOR SHALL IN NOT A PART OF THIS PRO M. UNSUITABLE MATERIAL IS TO NOT A PART OF THIS PRO 	THICKNESS MAXIMUM SPECIFIC GRAVITY (Gmm) 90% OF LAB DENSITY FOR LOCAL ONSITE ROADWAYS (REMOVE AND REPLACE IF NOT MET) 92% OF LAB DENSITY FOR LOCAL ONSITE ROADWAYS (REMOVE AND REPLACE IF NOT MET) 92% OF LAB DENSITY FOR COLLECTORS AND ARTERIALS (REMOVE AND REPLACE IF NOT MET) 92% OF LAB DENSITY FOR COLLECTORS AND ARTERIALS (REMOVE AND REPLACE IF NOT MET) 92% OF LAB DENSITY FOR COLLECTORS AND ARTERIALS (REMOVE AND REPLACE IF NOT MET) 92% OF LAB DENSITY FOR COLLECTORS AND ARTERIALS (REMOVE AND REPLACE IF NOT MET) 15% COR ALL DE TAKEN OVER ALL ROAD CROSSINGS, FIELD DENSITIES FOR SANITARY LINES SHALL BE TTY FOR PLATION TO BE FORD OF UNIT OF PLATION OF THE SPENDEND AND TEST FROM THE TOP OF THE PIPE AND EVERY ONE FOOT VERTICALLY THEREAFTER. FOR PIPE L LIFTS AND TEST FROM THE SPENDIGLINE AND EVERY ONE FOOT VERTICALLY THEREAFTER. FOR PIPE LA 11FS AND TEST FROM THE SPINIGLINE AND EVERY ONE FOOT VERTICALLY THEREAFTER. FOR PIPE LA 11FS AND TEST FROM THE SPINIGLINE AND EVERY ONE FOOT VERTICALLY THEREAFTER. FOR PIPE LA 11FS AND TEST FROM THE SPINIGLINE AND EVERY ONE FOOT VERTICALLY THEREAFTER. FOR PIPE LA 11FS AND TEST FROM THE SPINIGLINE AND EVERY ONE FOOT VERTICALLY THEREAFTER. FOR PIPE LA 11FS AND TEST FROM THE SPINIGLINE AND EVERY ONE FOOT VERTICALLY THEREAFTER. FOR PIPE LA 11FS AND TEST FROM THE SPINIGLINE AND EVERY ONE FOOT VERTICALLY THEREAFTER. FOR PIPE LA 11FS AND TEST FROM THE SPINIGLINE AND EVERY ONE FOOT VERTICALLY THEREAFTER. FOR PIPE LA 11FS AND TEST FROM THE SPINIGLINE AND EVERY ONE FOOT VERTICALLY THEREAFTER. FOR PIPE LA 11FS AND TEST FROM THE SPINIGLINE AND THE CONSTRUCTION OF THE SUBGRADE STAIL BE TANY MATERIAL UTILZED IN THE CONSTRUCTION OF THE SUBGRADE STAILL BE COND 12FOS AND DISPOSE OF ALL EXISTING OCCUPATION AS NECESSARY TO CONSTRUCTION. REFER TO GO DISPOSE OF ALL EXISTING OCCUPATION AS NECESSARY TO CONSTRUCTION. REFER TO GO DISPOSE OF ALL EXISTING OCCUPATION AS NECESSARY TO CONSTRUCTION. REFER TO GO DISPOSE OF ALL EXISTING OFTO TREME THO DEMOLITION. 15TAL EROSION CONTROL PRIOR TO DEMOLITION AND MAINTA	REFER TO NOTE C PER FDOT REFER TO NOTE C HALL NOT BE FURTHER APART THAN ONE FOOT TAGGERED TO INCLUDE RESULTS OVER SERVICE HOLES. TESTS AROUND STRUCTURES SHALL BE S. FOR PIPE LESS THAT 24 INCHES IN DIAMETER, OR PIPE 24 INCHES TO 72 INCHES IN DIAMETER, RGER THAN 72 INCHES, TESTS SHALL BEGIN ONE SARTICLE 125-9.2.1 CORE SHALL BE LESS THAN SPECIFIED MINIMUM RE STAGGERED TO THE LEFT, RIGHT, AND ON THE U.E. THE AUTHORITY HAVING JURISDICTION (AHJ) S SHALL BE IN ACCORDANCE WITH THE TESTING THE REQUIREMENTS OF CQC). IN THE EVENT OF A UCTED BY THE ENGINEER OF RECORD, THE AHJ IS. ENERAL CONSTRUCTION NOTES. S BUT NOT LIMITED TO: TREES, STUMPS, TRASH, ND DIP PIPE. THIS MATERIAL SHALL BE DISPOSED I BE PERMITTED. BURNING OF VEGETATION IS ED BY ENGINEER, PRESSURE MAINS SHOULD BE WITH CURRENT <u>CITY OF GREEN COVE SPRINGS</u> TERED CLEAN AT THE LIMITS OF THE PRESERVED DS. THIS SHALL INCLUDE BUT NOT BE LIMITED TO F ANY ON-SITE OR OFF-SITE UTILITIES THAT ARE C) AND BELOW GROUND IMPROVEMENTS (IE:
<text><list-item><list-item><list-item><list-item><list-item>PLANE COORDINATE SYSTEM AND INCLUDE THES TO AN ESTABLISHED LOCAL BENCHMARK. THE "ASBULLT SURVEY INCLUMENT ON SHALL BE SUPPLEMENTED TO CLARM YOU AD COUNTER IN THERES." INCLUDE AS AN DESSEMATO TO CLARM YOU AD COUNTER INTEGES THE PLANE AD CUNTER INTEGUNE THE SUBPLEMENTED THE SUBPLEMENTED THE SUBPLEMENT AND CONTROL INCLANE AD COUNTER INTEGUNE ADD SUBPLEMENTED TO CLARM FOR AD COUNTER INTEGUNE ADD SUBPLEMENTED TO CLARM FOR ADD SUBPLEMENT ADD SUBPLEMENT</list-item></list-item></list-item></list-item></list-item></text>	 NOTES A) TESTS SHALL BE LOCATEI VERTICALLY. FIELD DENSI- LATERALS. THERE SHALL SPIRALED IN ONE FOOT LI BACKFILL IN APPROPRIATE FOOT ABOVE THE BASE OF B) FOR FLEXIBLE PIPE (CORRI C) TESTS SHALL BE LOCATE THICKNESS. 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THE CONTRACTOR SHALL IS NOT A PART OF THIS PRO 	THICKNESS MAXIMUM SPECIFIC GRAVITY (Gmm) 90% OF LAB DENSITY FOR LOCAL ONSITE ROADWAYS (REMOVE AND REPLACE IF NOT MET) 92% OF LAB DENSITY FOR LOCAL ONSITE ROADWAYS (REMOVE AND REPLACE IF NOT MET) 92% OF LAB DENSITY FOR COLLECTORS AND ARTERIALS (REMOVE AND REPLACE IF NOT MET) 92% OF LAB DENSITY FOR COLLECTORS AND ARTERIALS (REMOVE AND REPLACE IF NOT MET) 92% OF LAB DENSITY FOR COLLECTORS AND ARTERIALS (REMOVE AND REPLACE IF NOT MET) 92% OF LAB DENSITY FOR COLLECTORS AND ARTERIALS (REMOVE AND REPLACE IF NOT MET) 90% OF LAB DENSITY FOR COLLECTORS AND ARTERIALS (REMOVE AND REPLACE IF NOT MET) 90% OF LAB DENSITY FOR COLLECTORS AND ARTERIALS (REMOVE AND REPLACE IF NOT MET) 90% OF LAB DENSITY FOR COLLECTORS AND ARTERIALS (REMOVE AND REPLACE IF NOT MET) 90% OF LAB DENSITY FOR COLLECTORS AND ARTERIALS FOR OF FILL TA TESTS SHALL BE STAND TEST FROM THE OP OF THE DE AND LEVERY ONE FOOT VERTICALLY THEREAFTER. FOR PIPE LAB 90% THERE SHALL BE NO LESS THAN THERE SHALL BE NO LESS THAN ONE TEST PROPE THE THE TRENCH. 90% THERE SHALL BE NO LESS THAN THERE SHALL BE NO LESS THAN ONE TEST PROPE STREET. NO C 90 NO MORE THAN 500 FEET APART. THERE SHALL BE NO LESS THAN ONE TEST PROPE STREET. NO C 90 NO MORE THAN 500 FEET APART. THERE SHALL BE NO LESS THAN ONE TEST PROPE STREET. NO C 90 NO MORE THAN 500 FEET APART. THERE SHALL BE NO LESS THAN ONE TEST PROPENTICID (STANDARD SHELE NOT AND BENDER CONSTRUCTION (EXCEPT FOR 10 APPROVED BY THE ROST STANDARD SPECIFICATIONS THE REVEL). 90% THERE SHALL BE NO LESS THAN THREE TESTS PER STREET TO OBTAIN AN AVERAGE LBR 40 VAL 90% THERE SHALL BE NO LESS THAN THREE TESTS PER STREET TO OBTAIN AN AVERAGE LBR 40 VAL 90% THERE SHALL BE NO LESS THAN THREE TESTS PER STREET TO OBTAIN AN AVERAGE LBR 40 VAL 90% THERE SHALL BE NO LESS THAN THREE TESTS PER STREET TO OBTAIN AN AVERAGE LBR 40 VAL 90% THERE SHALL BE NO LESS THAN THREE TESTS PER STREET TO OBTAIN AN AVERAGE LBR 40 VAL 90% THERE SHALL BE NO LESS THAN THREE TESTS PER STREET TO OBTAIN AN AVERAGE LBR 40 VAL 90% THERE SHALL BE NO LESS THAN THREET TESTS PER S	REFER TO NOTE C PER FDOT REFER TO NOTE C HALL NOT BE FURTHER APART THAN ONE FOOT TAGGERED TO INCLUDE RESULTS OVER SERVICE HOLES. TESTS AROUND STRUCTURES SHALL BE S. 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	TEST	TEST FREQUENCY
	OPTIMUM MOISTURE/MAXIMUM DENSITY	PER SOIL TYPE
	100% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T99-57(METHOD C) NO TOLERANCE	ONE PER 500' HORIZONTALLY, IN ONE (1) FO LIFTS
KMENT	GRADATION 1-T027	1/500' SECTION PER LIFT
	PROCTOR 1-T180	PER MATERIAL TYPE
	PROCTOR 5-525	PER MATERIAL TYPE
	DENSITY 1-T238	1/500' SECTION PER LIFT
TRENCH BACKFILL-	OPTIMUM MOISTURE/MAXIMUM DENSITY	PER SOIL TYPE
D STRUCTURES FROM LINE TO R.O.W. LINE	100% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T99-57(METHOD C) NO TOLERANCE	REFER TO NOTE A & NOTE B
TRENCH BACKFILL-	OPTIMUM MOISTURE/MAXIMUM DENSITY	PER SOIL TYPE
D STRUCTURES E R.O.W. LINE	95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T99-57(METHOD C) NO TOLERANCE	REFER TO NOTE A
	OPTIMUM MOISTURE/MAXIMUM DENSITY	PER SOIL TYPE
	MINIMUM 40 LBR	PER MATERIAL TYPE. REFER TO NOTE D
ZED SUBGRADE	MINIMUM 20 LBR (FOR SOIL CEMENT ONLY)	SAME AS FOR 40 LBR. REFER TO NOTE D
	98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70) NO TOLERANCE	REFER TO NOTE C
	OPTIMUM MOISTURE/MAXIMUM DENSITY	PER SOIL TYPE
	MINIMUM 100 LBR	PER SOURCE
THAN SOIL CEMENT JSHED CONCRETE)	98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70) NO TOLERANCE	REFER TO NOTE C
SHED CONCRETE)	GRADATION, ATTERBERG LIMITS	PER SOURCE
	MIX DESIGN	PER MATERIAL TYPE
	OPTIMUM MOISTURE/MAXIMUM DENSITY	PER MATERIAL TYPE DAILY
	PROCTOR 1-T180	PER MATERIAL TYPE
IENT BASE	COMPRESSIVE STRENGTH SPECIMENS	ONE SET OF THREE (3) PER MATERIAL TYPE DAILY
	TEST CORES-THICKNESS	REFER TO NOTE C
	97% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T134 - NO TOLERANCE	REFER TO NOTE C
	SLUMP TEST	ONE PER SET OF CYLINDERS
TE	COMPRESSIVE STRENGTH CYLINDERS	ONE SET OF THREE(3) CYLINDERS FOR 100 CUBIC YARDS OF FRACTION THEREOF
ENCH BACKFILL- ELINES AND STRUCTURES FROM NE TO R.O.W. LINE RENCH BACKFILL- ELINES AND STRUCTURES R.O.W. LINE D SUBGRADE D SUBGRADE ENT BASE ENT BASE	AIR CONTENT	ONE PER SET OF CYLINDERS
	MINIMUM LBR 130	3/STREET TO OBTAIN AN AVGERAGE OF 150
	LIQUID LIMIT (AS DETERMINED BY AASHTO T80) (LESS THAN 25)	PER MATERIAL TYPE
D CONCRETE BASE	PLASTICITY INDEX (AS DETERMINED BY AASHTO T90) (LESS THAN 4)	PER MATERIAL TYPE
	ABRASION	PER LOS ANGELES ABRASION (FM-1TO90) (50 MIN) PER MATERIAL TYPE
	DENSITY 100% OF MAXIMUM DENSITY (AS DETERMINED BY AASHTO T-180)	PER MATERIAL TYPE
	AGGREGATE ANALYSIS	PER FDOT
	DESIGN MIX	ONE PER FDOT APPROVED TYPE
	BITUMEN CONTENT	PER FDOT
AVE ASPHALT	THICKNESS	REFER TO NOTE C
	MAXIMUM SPECIFIC GRAVITY (Gmm)	PER FDOT
	90% OF LAB DENSITY FOR LOCAL ONSITE ROADWAYS (REMOVE AND REPLACE IF NOT MET) 92% OF LAB DENSITY FOR COLLECTORS AND ARTERIALS (REMOVE AND REPLACE IF NOT MET)	REFER TO NOTE C

ITION NOTES

- ORDER
- WORK SHALL BE REFLECTED IN THE BID ITEM OR RELATED WORK.

- NOTED IN THE PLANS OR REQUIRED BY THE LOCAL JURISDICTION).
- B. PAVEMENT MARKINGS SHALL BE PLACED AS SHOWN IN THE PLANS AND THE APPROPRIATE FDOT DESIGN STANDARDS INDEX. ANY DISCREPANCIES SHALL BE
- THE STANDARD SPECIFICATIONS, AND LISTED ON QPL. (PAINT) (10' WHITE/10' BLACK/20' SKIP).
- PAINTING WHITE STRIPING.

SAFETY NOTES

- LAWS
- IMMEDIATELY ADJACENT TO THE EXISTING RIGHT-OF-WAY.
- TRANSPORTATION
- н FROM HAZARDS WITHIN THE PROJECT LIMITS
- SUNSHINE 811 BEFORE YOU DIG.
- SAFETY REGULATIONS.

TRAFFIC CONTROL GENERAL NOTES

- ADVANCE OF ANY PROPOSED LANE CLOSURES AND/OR DETOURS.
- INDEXES.

EMERGENCY VEHICLE TRAFFIC.

SITE PLAN AND COORDINATE GEOMETRY NOTES

- CONDITION AT HIS OWN EXPENSE.

- OTHERWISE.

NOTE CONTRACTOR TO REFER TO FDOT DESIGN STANDARDS FOR ADDITIONAL INDEX INFORMATION NOT SHOWN ON THESE PLANS

SIGNING AND PAVEMENT MARKING NOTES

A. ALL SIGNS AND PAVEMENT MARKING SHALL CONFORM TO THE U.S. DEPARTMENT OF TRANSPORTATION 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' 2009 EDITION INCLUDING REVISION DATED MAY 2012 AND THE FLORIDA DEPARTMENT OF TRANSPORTATION 'DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM' (DATED 2017-2018).

B. ALL FLORIDA ROUTE MARKERS MUST CONFORM TO FDOT DESIGN STANDARDS INDEX NO. 700-102.

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LENGTH OF COLUMN (POST) SUPPORTS IN THE FIELD PRIOR TO FABRICATION. COLUMN HEIGHTS AND DIMENSION SHALL CONFORM TO FDOT STANDARDS.

D. REFER TO FDOT DESIGN STANDARDS INDEX NO. 17352 FOR RETRO-REFLECTIVE PAVEMENT MARKER PLACEMENT DETAILS.

E. PAINT ALL MEDIAN NOSES AND RAISED ISLAND NOSES REFLECTIVE WHITE OR REFLECTIVE YELLOW. COLOR IS AS INDICATED IN THE PLANS. ABSENCE OF A CALLOUT RELATED TO THIS DETAIL DOES NOT ELIMINATE THIS REQUIREMENT.

F. CAUTION MUST BE EXERCISED WHILE RELOCATING EXISTING SIGNS SO AS TO PREVENT DAMAGE TO THE SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER OR AUTHORITY HAVING JURISDICTION THEN THEY SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE. IF SIGNS ARE IN POOR CONDITION PRIOR TO REMOVAL, THE ENGINEER OF RECORD AND OWNER SHALL BE NOTIFIED IN WRITING AND ADVISED OF ANY POTENTIAL CHANGE

G. ANY EXISTING SIGN TO REMAIN THAT ARE DISTURBED DURING CONSTRUCTION OR RELOCATED SHALL BE RESET TO CURRENT FDOT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION. IF THE EXISTING SIGN CANNOT BE RELOCATED DURING THE CONSTRUCTION IMPROVEMENTS, THE CONTRACTOR SHOULD TAKE CAREFUL PRECAUTION TO STORE AND PROTECT THE EXISTING SIGN UNTIL THE SIGN CAN BE INSTALLED AT ITS FINAL LOCATION. COST OF THIS

H. THE SIGN LOCATIONS SHOWN ARE APPROXIMATE AND SHOULD BE INSTALLED IN ACCORDANCE WITH MUTCD PLACEMENT CRITERIA, AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE LOCAL GOVERNMENT AGENCY OR BY THE ENGINEER OF RECORD.

I. ALL ROUTE MARKER AUXILIARIES SHALL MATCH THE COLOR COMBINATION OF THE RESPECTIVE MARKER WHICH THEY SUPPLEMENT.

J. CONTRACTOR SHALL USE W-SHAPE STEEL POSTS FOR MULTI-POST SIGNS AND ALUMINUM ROUND TUBES FOR SINGLE COLUMN / POSTS (UNLESS OTHERWISE K. ANY EXISTING SIGNS LOCATED WITHIN PUBLIC RIGHT-OF-WAY (WITHIN PROJECT LIMITS SHALL) SHALL REMAIN UNLESS OTHERWISE NOTED IN THE PLANS.

L. ALL SINGLE COLUMN SIGNS WITHIN THE LIMITS OF CLEARING AND GRUBBING SHALL BE REMOVED UNLESS OTHERWISE NOTED IN THE PLANS.

BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IN WRITING. C. THE CONTRACTOR SHALL APPLY THERMOPLASTIC AS THE FINAL TRAFFIC STRIPES AND MARKINGS A MINIMUM OF 14 DAYS AFTER THE FIRST APPLICATION OF

PAINT BUT PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. THERMOPLASTIC SHALL BE LEAD-FREE, NON-SOLVENT BASED, COMPLIANT WITH SECTION 711 OF D. ON CONCRETE SURFACE, INCLUDING BRIDGE DECKS, ALL SKIP STRIPE PAVEMENT MARKINGS SHALL BE ALTERNATE WHITE (THERMOPLASTIC) AND BLACK

E. IN PARKING LOTS STRIPING AND SIGNAGE SHALL CONFORM TO FDOT STANDARDS. PAINTED OR THERMOPLASTIC STRIPING SHALL BE USED AS DESIGNATED ON THE PLANS. WHEN STRIPING WITH WHITE ON CONCRETE SURFACES THE CONTRACTOR SHALL APPLY BLACK PAINT FIRST ON THE PAVEMENT PRIOR TO

F. PAINTED PAVEMENT MARKINGS SHALL COMPLY WITH SECTION 710 OF THE STANDARD SPECIFICATIONS AND BE LISTED ON QPL. (TWO COATS APPLIED 14 DAYS

G. ACCESSIBLE PARKING SPACES SHALL BE MARKED AND SIGNED IN ACCORDANCE WITH FDOT INDEX 711-001 (UNLESS OTHERWISE NOTED).

H. ALL PAVEMENT MARKING TO BE REMOVED SHALL BE PERFORMED BY HYDROBLASTING (UNLESS PROHIBITED BY THE AHJ).

A. DURING THE CONSTRUCTION AND MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS PERSONNEL. B. CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH ALL OCCUPATION SAFETY AND HEALTH REGULATIONS AS WELL AS THE ENVIRONMENTAL PROTECTION

C. NEITHER THE ENGINEER OF RECORD NOR OWNER ARE RESPONSIBLE FOR PROJECT SAFETY.

D. THE CONTRACTOR'S MAINTENANCE OF TRAFFIC (MOT) PLAN MUST BE PREPARED BY A PROFESSIONAL WITH FDOT ADVANCED MOT CERTIFICATION. THE PLAN MUST THEN BE SUBMITTED AND APPROVED BY APPLICABLE GOVERNING AGENCIES PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WITHIN OR

E. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF

F. CONTRACTOR SHALL PROVIDE AND MAINTAIN IT'S OWN SAFETY EQUIPMENT IN ACCORDANCE WITH IT'S HEALTH & SAFETY PROGRAM AND ALL OTHER APPLICABLE LEGAL AND HEALTH AND SAFETY REQUIREMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING ITS EMPLOYEES AND SUB-CONTRACTORS WITH ADEQUATE INFORMATION AND TRAINING TO ENSURE THAT ALL EMPLOYEES AND SUB-CONTRACTORS AND SUB-CONTRACTOR'S EMPLOYEES COMPLY WITH ALL APPLICABLE SAFETY CODE REQUIREMENTS.

G. ALL EXCAVATIONS BY THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION RULES AND REGULATIONS AND FLORIDA TRENCH SAFETY ACT.

THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF "THE STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS" SHALL BE FOLLOWED IN THE DESIGN APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKMEN

THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS CONTAINING BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE UTILITY COMPANIES PRIOR TO CONSTRUCTION TO OBTAIN FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES. CALL SUNSHINE STATE ONE CALL AT

J. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE

A. THE MAINTENANCE OF TRAFFIC SHALL CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MUTCD)" LATEST EDITION" AND FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS (CURRENT STANDARDS). B. THE MINIMUM TEMPORARY LANE WIDTH ALLOWED WILL BE 10 FEET. THE CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION AND THE ENGINEER OF

RECORD ALONG WITH ALL LOCAL LAW ENFORCEMENT AND EMERGENCY/RESCUE AGENCIES LOCATED IN THE PROJECT VICINITY A MINIMUM OF 24 HOURS IN C. TEMPORARY REFLECTIVE PAVEMENT MARKERS SHALL BE PROVIDED ON ALL TEMPORARY LANE LINES AND MEDIAN EDGE LINES IN ACCORDANCE WITH FDOT

D. ALL TRAFFIC LANES MUST REMAIN OPEN FOR TRAFFIC DURING AN EVACUATION NOTICE FROM HURRICANES OR OTHER CATASTROPHIC EVENTS AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT AS DIRECTED BY THE ENGINEER OF RECORD OR LOCAL JURISDICTION. E. THE CONTRACTOR SHALL MAINTAIN AND KEEP STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION OPERATIONS IN ORDER TO FACILITATE

THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICES TO ALL PROPERTY OWNER'S NOT LESS THEN THREE (3) DAYS IF DRIVEWAYS ARE TO BE CLOSE OR REMOVED AS PART OF THE PROJECT IMPROVEMENTS.

A. ALL POINTS AND MONUMENTS SHALL BE SURVEYED UPON MOBILIZATION TO VERIFY THEIR ACCURACY. ANY DISCREPANCIES DISCOVERED MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING PRIOR TO CONSTRUCTION. B. MONUMENTS AND OTHER SURVEY CONTROL POINTS SHALL BE PROTECTED FROM DAMAGE AND DISTURBANCE. IF ANY CONTROL POINTS ARE DAMAGED OR

DISTURBED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND REPLACE THE CONTROL POINTS TO THEIR ORIGINAL C. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION

AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THIS WORK PRIOR TO CONSTRUCTION. D. DIGITAL OR ELECTRONIC REPRESENTATION OF THESE CONSTRUCTION PLANS DOES NOT CONSTITUTE A COORDINATE CONTROL MAP OR MATHEMATICALLY CONTROLLED INFORMATION FOR THE USE OF CONSTRUCTION STAKEOUT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE CONTRACTOR'S

SURVEYOR TO ENSURE THAT ANY DIGITAL OR ELECTRONIC REPRESENTATION OF THESE PLANS IS IN COMPLETE CONFORMANCE WITH ALL OF THE NOTATIONS, SPECIFICATIONS, DETAILS AND OTHER DATA APPEARING ON OR AS MAY BE DERIVED FROM THESE CONSTRUCTION PLANS.

E. ALL DIMENSIONS SHOWN ON PLAN ARE TO FACE OF BUILDING, EDGE OF PAVEMENT, FACE OF CURB OR CENTERLINE OF STRUCTURE, UNLESS NOTED



PROJECT NAME					PREPARED FOR			
					9995 GATE PARKWAY N, SUITE 200	JACKSONVILLE, FLORIDA USA 32246 PHONE 904 730 9360 WWW HALEF COM	FL CA 33380 FL LC 26000645	
REVISIONS	NO. DATE DESCRIPTION							
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PAVING AND GRADING NOTES

- 1. ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER, THE OWNER'S ENGINEER, OR OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS TO BE BACK FILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND SHALL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.
- 3. ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNER'S SOIL TESTING COMPANY OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS OR THE REFERENCED SOILS REPORT. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION ACTIVITIES, WHICH INCLUDE BUT ARE NOT LIMITED TO EARTHWORK ACTIVITIES, SUB GRADE PREPARATION, ETC ... CONFORM WITH THE GEOTECHNICAL REPORT
- 4. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
- 5. CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
- 6. CURBING WILL BE PLACED AT THE EDGE OF ALL PAVEMENT, AS SHOWN ON THE PLANS.
- 7. REFER TO THE LATEST IMPERIAL EDITION OF F.D.O.T. "ROADWAY AND TRAFFIC DESIGN STANDARDS" FOR DETAILS AND SPECIFICATIONS OF ALL F.D.O.T. TYPE CURBING AND GUTTERS CALLED FOR IN THESE PLANS.
- 8. CONTRACTOR TO PROVIDE A 1/2" TO 1" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND OTHER MATERIAL, CONTRACTOR TO PROVIDE A 1'(W) RIBBON CURB AT THE ABUTMENT OF SPECIALTY PAVEMENT AND ASPHALT: REFER TO PLANS.
- 9. CONTRACTOR IS TO PROVIDE EROSION CONTROL AND SEDIMENTATION BARRIER TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC. THE CONTRACTOR IS TO REMOVE SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.
- 10. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION. THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION OR OTHER ACCEPTABLE METHODS
- 11. THE CONTRACTOR WILL STABILIZE BY SEED AND MULCH, SOD OR OTHER APPROVED MATERIALS AS REQUIRED ANY DISTURBED AREAS WITHIN ONE WEEK FOLLOWING CONSTRUCTION OF THE UTILITY SYSTEMS AND PAVEMENT AREAS. CONTRACTOR SHALL MAINTAIN SUCH AREAS UNTIL FINAL ACCEPTANCE BY OWNER.
- 12. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE SOILS TESTING AND SUBMITTING TESTING TO OWNER'S ENGINEER ON A WEEKLY BASIS. TESTS WILL BE REQUIRED PURSUANT WITH THE TESTING SCHEDULE REQUIRED BY THE GOVERNMENTAL AGENCY HAVING JURISDICTION OVER THIS WORK. UPON THE COMPLETION OF THIS WORK, SOILS ENGINEER WILL SUBMIT CERTIFICATIONS TO THE OWNER'S ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.
- 13. A QUALIFIED TESTING LABORATORY SELECTED BY THE OWNER SHALL PERFORM ALL TESTING NECESSARY TO ASSURE COMPLIANCE OF THE IN PLACE MATERIALS AS REQUIRED BY THESE PLANS AND THE VARIOUS AGENCIES. SHOULD ANY RETESTING BE REQUIRED DUE TO THE FAILURE OF ANY TESTS TO MEET THE REQUIREMENTS. THE CONTRACTOR WILL BEAR ALL COSTS OF SAID RETESTING
- 14. MIXING IN PLACE OF SOIL CEMENT WILL NOT BE ALLOWED.
- 15. CONTRACTOR TO FINISH ALL EXPOSED BACK OF CURB.
- 16. COMPACTED SUB-GRADE SHALL BE MECHANICALLY MIXED TO THE SPECIFIED DEPTH PRIOR TO GRADING, COMPACTION AND TESTING.
- 17. DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIPLINE OF A TREE TO REMAIN ON SITE UNLESS OTHERWISE APPROVED BY THE COUNTY

DRAINAGE NOTES

- 1. STANDARD INDEXES REFER TO THE LATEST EDITION OF FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS" aka "DESIGN STANDARDS" AND/OR "FDOT INDEX". REFER TO THIS MANUAL FOR ADDITIONAL DETAILS AND INFORMATION NOT SHOWN OR REFERENCED ON THESE PLANS.
- 2. ALL STORM SEWER PIPE SHALL BE CLASS III (ASTM C-76) UNLESS OTHERWISE NOTED ON PLANS.
- 3. ALL DRAINAGE STRUCTURES SHALL BE IN ACCORDANCE WITH FDOT INDEX UNLESS OTHERWISE NOTED ON PLANS. STRUCTURE BOTTOMS SHALL BE ADJUSTED OR MODIFIED PER FDOT INDEX WHEN LARGER PIPES ARE INDICATED
- 4. ALTERNATIVE DRAINAGE PIPE MATERIALS AND SUBSTITUTIONS MUST BE LISTED AS A BID ALTERNATE MATERIAL DURING THE INITIAL BIDDING PHASE FOR CONSIDERATION. SUBSTITUTION OF PIPE MATERIALS DURING THE CONSTRUCTION PHASE IS NOT PERMISSIBLE WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ENGINEER OF RECORD AND OWNER. THE USE OF PLASTIC STORMWATER PIPE MATERIALS (PVC, HDPE, ETC) SHALL REQUIRE THE USE OF WATERTIGHT BOOTED CONNECTIONS AT ALL STORMWATER STRUCTURES. NO GROUTING OF STRUCTURE OPENINGS WILL BE PERMITTED WHEN USING FLEXIBLE PIPE MATERIALS.
- 5. PIPE LENGTHS SHOWN ARE APPROXIMATE AND MEASURED TO CENTER OF DRAINAGE STRUCTURE WITH THE EXCEPTION OF MITERED END SECTION (MES) AND 10. 20. ALL SANITARY SEWER PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACK FILL. FLARED END SECTION (FES) WHICH ARE NOT INCLUDED IN LENGTHS. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES AS SHOWN ON THE PLANS OR BID SCHEDULE CONTRACTOR TO NOTIFY THE ENGINEER AND APPLICABLE AGENCIES 48 HOURS IN ADVANCE TO SCHEDULE INSPECTIONS (IF PROVIDED BY OWNER) PRIOR TO FINALIZING THEIR SUBMITTAL OF BIDS/PROPOSAL, AND INFORM THE ENGINEER OF ANY DISCREPANCIES.
- 6. ALL STORM DRAINAGE PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER OR ENGINEER'S REPRESENTATIVE PRIOR TO THE PLACEMENT OF BACK FILL.
- 7. THE CONTRACTOR MUST PROVIDE CCTV VIDEO (IN DVD FORMAT) OF THE NEWLY CONSTRUCTED STORMWATER PIPELINE FOR REVIEW AND ACCEPTANCE. THE CONTRACTOR SHALL PROVIDE AT LEAST 48 HOURS NOTIFICATION TO THE ENGINEER AND TO THE APPLICABLE AGENCIES TO SCHEDULE INSPECTIONS, PRIOR TO SUBMITTING VIDEOS TO THE ENGINEER FOR REVIEW, THE CONTRACTOR SHALL REVIEW THE VIDEOS FIRST FOR DISCREPANCIES AND FOR COMPLETENESS TO MAKE SURE THAT ALL PIPELINE SECTIONS ARE INCLUDED.
- 8. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL TO MAINTAIN AND PROTECT THE STORM DRAINAGE SYSTEM FROM MUD, DIRT, DEBRIS, ETC. THE SYSTEM SHALL BE PROTECTED UNTIL THE ADJACENT LAND AREAS ARE DEEMED STABLE AND WRITTEN FINAL ACCEPTANCE OF THE PROJECT HAS BEEN PROVIDED. THE CONTRACTOR MAY BE REQUIRED TO PRESSURE CLEAN PIPES AND INLETS FOR THESE PURPOSES.
- 9. ALL FDOT DITCH BOTTOM INLETS IN THE PROPOSED PAVEMENT AREAS AND WITHIN THE DESIGNATED EASEMENTS OR PUBLIC ROW SHALL BE MODIFIED FOR TRAFFIC BEARING WITH HOT DIPPED GALVANIZED STEEL GRATES AND METAL ANGLE FRAMES SUPPORT FOR GRATES. ANGLE FRAME SHALL BE PART OF THE PRECAST CONCRETE STRUCTURES, INDICATED ON THE SHOP DRAWINGS AND THE PRECAST SHALL BE ACCORDANCE WITH FDOT SPECIFICATIONS.
- 10. ALL DRAINAGE STRUCTURE STEEL GRATES AND COVERS TO BE TRAFFIC RATED FOR A MINIMUM H-20 LOADING.
- 11. ALL MITERED END SECTIONS FOR SIDE DRAIN PIPES AT DRIVEWAY ENTRANCES ON COUNTY OR FDOT ROADWAYS MUST BE CONSTRUCTED WITH A CONCRETE TOE FOUNDATION IN ACCORDANCE WITH FDOT INDEX 273.
- 12. NO POND/LAKE EXCAVATION (FOR ANY PURPOSE) SHALL EXTEND BEYOND OR BELOW THE PERMITTED DESIGN DEPTHS/ELEVATIONS SHOWN ON THE DRAWINGS. NO 18. THE CONTRACTOR SHALL INSTALL ANY ADDITIONAL AIR RELEASE VALVES ON FORCE MAINS AT CHANGES IN ELEVATION OF 2 FEET DUE TO ACTUAL FIELD LOWER SEMI-CONFINING UNIT CLAYEY MATERIALS AND NO WEATHERED LIMESTONE MATERIALS SHALL BE EXCAVATED. REGARDLESS IF THESE MATERIALS ARE CONDITIONS OR CONFLICTS NOT IDENTIFIED ON THESE PLANS ENCOUNTERED WITHIN THE PERMITTED EXCAVATION DEPTHS/ELEVATIONS SHOWN ON THE PLANS. TEMPORARY DEWATERING DITCHES OR SUMPS (FOR POND/LAKE EXCAVATION) SHALL NOT EXTEND BELOW THE PERMITTED DESIGN DEPTHS/ELEVATIONS SHOWN ON THE DRAWINGS. IF ANY LOWER SEMI-CONFINING UNIT CLAYEY 19. A 4 INCH PUMP-OUT MEETING LOCAL REGULATORY STANDARDS SHALL BE PROVIDED ON ALL FORCE MAINS LOCATED ADJACENT TO RIGHT-OF-WAYS ON PRIVATE MATERIALS OR WEATHERED LIMESTONE MATERIALS ARE ENCOUNTERED ABOVE THE PERMITTED EXCAVATION DEPTHS/ELEVATIONS. THEN EXCAVATION OPERATIONS PROPERTY. PUMP-OUT MUST BE ACCESSIBLE BY LOCAL UTILITY FORCES FROM ADJACENT PUBLIC STREET OR RIGHT-OF-WAY. IN THAT POND/LAKE AREA SHALL IMMEDIATELY CEASE IN THE GENERAL AREA AND THE GEOTECHNICAL CONSULTANT AND ENGINEER OF RECORD SHALL BE NOTIFIED TO PROVIDE SUBSEQUENT EVALUATIONS / RECOMMENDATIONS, AS APPROPRIATE, WHICH SHALL BE IMPLEMENTED BY THE CONTRACTOR. EPC (OR FDEP) 20. CONTRACTOR SHALL GROUT FLOW CHANNELS IN ALL SANITARY SEWER MANHOLES. MUST BE CONTACTED PRIOR TO ANY EXCAVATION OF CLAYS OR EXCEEDING THE PERMITTED EXCAVATION DEPTH.

EROSION/TURBIDITY CONTROL NOTES

- 1. THE INSTALLATION OF TEMPORARY EROSION CONTROL BARRIERS SHALL BE COORDINATED WITH THE CONSTRUCTION OF THE PERMANENT EROSION CONTROL FEATURES TO THE EXTENT NECESSARY TO ASSURE ECONOMICAL, EFFECTIVE AND CONTINUOUS CONTROL OF EROSION AND WATER POLLUTION THROUGHOUT THE LIFE OF THE CONSTRUCTION PHASE.
- 2. THE TYPE OF EROSION CONTROL BARRIERS USED SHALL BE GOVERNED BY THE NATURE OF THE CONSTRUCTION OPERATION AND SOIL TYPE THAT WILL BE EXPOSED. SILTY AND CLAYEY MATERIAL USUALLY REQUIRE SOLID SEDIMENT BARRIERS TO PREVENT TURBID WATER DISCHARGE, WHILE SANDY MATERIAL MAY NEED ONLY SILT SCREENS OR HAY BALES TO PREVENT EROSION. FLOATING TURBIDITY CURTAINS SHALL BE USED IN OPEN WATER SITUATIONS. DIVERSION DITCHES OR SWALES MAY BE REQUIRED TO PREVENT TURBID STORM WATER RUNOFF FROM BEING DISCHARGED TO WETLANDS OR OTHER WATER BODIES. IT MAY BE NECESSARY TO EMPLOY A COMBINATION OF BARRIERS, DITCHES AND OTHER EROSION/TURBIDITY CONTROL MEASURES IF CONDITIONS WARRANT
- 3. THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS SUCH THAT THE AREA OF UNPROTECTED ERODIBLE EARTH EXPOSED AT ANY ONE TIME IS NOT LARGER THAN THE MINIMUM AREA NECESSARY FOR EFFICIENT CONSTRUCTION OPERATIONS, AND THE DURATION OF EXPOSED, UNCOMPLETED CONSTRUCTION TO THE ELEMENTS SHALL BE AS SHORT AS PRACTICABLE. CLEARING AND GRUBBING SHALL BE SO SCHEDULED AND PERFORMED THAT GRADING OPERATIONS CAN FOLLOW IMMEDIATELY THEREAFTER, AND GRADING OPERATIONS SHALL BE SCHEDULED AND PERFORMED THAT PERMANENT EROSION CONTROL FEATURES CAN FOLLOW IMMEDIATELY THEREAFTER IF CONDITIONS ON THE PROJECT PERMIT
- 4. THE CONTRACTOR AND/OR OWNER'S REPRESENTATIVE SHALL PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY EROSION CONTROL FEATURES UNTIL THE PROJECT IS COMPLETE AND ALL BARED SOILS ARE STABILIZED.
- ALL GREEN AND/OR DISTURBED AREAS TO BE SODDED/RESODDED WITH LIKE SOD.
- 6. ANY SOD PLACED ON SLOPES EXCEEDING 3:1 TO BE ANCHORED BY STAKES, NETS, AND/OR ENGINEER'S APPROVED METHOD.
- 7. REQUIRED TREE BARRICADES AND EROSION CONTROL MUST REMAIN INTACT THROUGHOUT CONSTRUCTION. ENCROACHMENT INTO OR FAILURE TO MAINTAIN THESE BARRICADES WILL RESULT IN ENFORCEMENT ACTION WHICH MAY INCLUDE CITATIONS AND/OR PERMIT REVOCATION AS PROVIDED BY LOCAL JURISDICTION
- 8. ROOT PRUNING SHALL BE CONDUCTED AFTER STAKING FOR, AND PRIOR TO INSTALLATION OF SILT FENCE, A CERTIFIED ARBORIST, INTERNATIONAL SOCIETY OF ARBORICULTURE-CERTIFIED, SHALL CONDUCT OR OVERSEE ROOT PRUNING ACTIVITIES. THE CERTIFIED ARBORIST SHALL DETERMINE SPECIFIC EQUIPMENT AND METHODS TO BE USED THE CERTIFIED ARBORIST SHALL REVIEW ROOT PRUNING SHOWN ON THE PLANS AND SHALL VERIEV OR MODIFY AS NEEDED THE LIMITS AND LOCATIONS OF ROOT PRUNING TO MINIMIZE IMPACTS TO AFFECTED TREES. THE CERTIFIED ARBORIST SHALL RECOMMEND ANY ASSOCIATED TREATMENTS SUCH AS FERTILIZERS, FUNGICIDES, PESTICIDES, ETC. TO THE OWNER FOR REVIEW AND APPROVAL

UTILITY NOTES

- ALL UTILITY WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CCUA WATER & WASTEWATER STANDARDS MANUAL, ALL STATE AND FEDERAL REGULATIONS, OR THOSE AGENCIES HAVING JURISDICTION.
- 2. ALL WATER AND SEWER CONSTRUCTION SHALL BE PERFORMED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 OF THE FLORIDA STATUTES.
- ALL NEW PIPE SHALL HAVE A MINIMUM DEPTH OF COVER OF 36 INCHES MEASURED FROM THE TOP OF THE PIPE TO THE PROPOSED FINISHED GROUND SURFACE, EXCEPT AS OTHERWISE NOTED ON THE DRAWINGS. VERTICAL AND HORIZONTAL ALIGNMENT MAY BE ADJUSTED TO MEET ADVERSE FIELD CONDITIONS UPON APPROVAL BY THE ENGINEER AND LOCAL REGULATORY AGENCY.
- 4. ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO FINAL PREPARATION OF SUBGRADE FOR PAVEMENT.
- 5. ALL BEDDING SHALL BE CLASS B, TYPE I BEDDING UNLESS INDICATED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

WASTEWATER NOTES

- SANITARY SEWERS, FORCE MAINS AND STORM SEWERS SHOULD ALWAYS CROSS UNDER WATER MAINS. SANITARY SEWERS, FORCE MAINS AND STORM SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE WHENEVER POSSIBLE. WHERE SANITARY SEWERS, FORCE MAINS AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE AND MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT THE CROSSING. ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING). WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE, THE NEW PIPE SHALL BE CONSTRUCTED OF DIP AND THE CROSSING SHALL BE ARRANGED TO MEET THE REQUIREMENTS ABOVE
- SANITARY SEWER SERVICE CONNECTION LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. SANITARY SEWER SHOULD BE CONSTRUCTED FIRST AND PROPOSED WATER SERVICES AND STORMWATER SHOULD BE ADJUSTED AROUND THE SANITARY LATERALS AND/OR BUILDING CLEANOUTS
- 3. PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING NEW SANITARY SEWER LINES TO EXISTING LINES OR APPURTENANCES, THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES NEAR THE POINT OF CONNECTION AND NOTIFY OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITH DESIGN INFORMATION SHOWN IN THESE PLANS
- 4. CONTRACTOR SHALL NOTIFY ENGINEER AND THE APPLICABLE AGENCIES AT LEAST 48 HOURS IN ADVANCE OF SCHEDULED WORK.
- 5. AT LEAST 3 WEEKS PRIOR TO CONNECTION TO THE EXISTING SANITARY FORCE MAIN, CONTRACTOR SHALL NOTIFY THE OWNER'S ENGINEER AND THE APPLICABLE AGENCIES AND SUPPLY THEM WITH THE CONNECTION DETAIL. THE CONTRACTOR'S NAME, STARTING DATE, PROJECTED SCHEDULE AND OTHER INFORMATION AS REQUIRED. THEY SHALL ALSO BE CONTACTED 5 DAYS PRIOR TO CONSTRUCTION TO ENSURE AVAILABILITY OF INSPECTION PERSONNEL, ANY WORK PERFORMED PRIOR TO NOTIFYING FIELD ENGINEERING OR WITHOUT A DEPARTMENT INSPECTOR PRESENT MAY BE SUBJECT TO REMOVAL AND REPLACEMENT.
- 6. THE CONTRACTOR SHALL PERFORM AN INFILTRATION/EXFILTRATION TEST ON ALL GRAVITY SEWERS AND A PRESSURE TEST ON ALL FORCE MAINS (AS APPLICABLE) IN ACCORDANCE TO APPLICABLE AGENCIES REGULATIONS. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER OF RECORD AND SUBMITTED TO THE APPLICABLE AGENCIES FOR APPROVAL. THE SCHEDULING, COORDINATION AND NOTIFICATION TO ALL PARTIES IS THE CONTRACTOR'S RESPONSIBILITY.
- 7. ONE OR MORE OF THE FOLLOWING CERTIFICATES/SHOP DRAWINGS, DEPENDING ON THE TYPE OF CONNECTION, WILL BE REQUIRED. THIS SHOULD BE REVIEWED WITH THE DESIGN DIVISION PRIOR TO APPROVAL FOR CONSTRUCTION. DIP/PVC CERTIFICATE OF MANUFACTURE.
- JACKING PIT DETAIL MANHOLE SHOP DRAWINGS AND STRENGTH REPORT
- CRUSHED STONE SUBMITTAL FRAME AND COVER SHOP DRAWINGS.
- VALVE SHOP DRAWING. • FLEXIBLE COUPLING SHOP DRAWINGS.
- MANHOLE DROP
- CASING PIPE CERTIFICATE. CONNECTION DETAIL.
- 8. THE CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THE FOLLOWING HAS BEEN COMPLETED: FINAL INSPECTION IN CONJUNCTION WITH DEPARTMENT PERSONNEL COMPLETED.
- AS-BUILTS HAVE BEEN SUBMITTED AND ACCEPTED. ALL NECESSARY TESTING COMPLETED AND CERTIFIED.
- PAYMENT OF ALL CAPACITY FEES
- 9. THE CONTRACTOR SHALL PERFORM AT HIS OWN EXPENSE AN INFILTRATION OR EXFILTRATION TEST, A TELEVISION INSPECTION (CCTV), AND A MANDREL (GO, NO GO) TEST ON ALL GRAVITY SEWERS IN ACCORDANCE WITH THE ENGINEER OF RECORD'S REQUIREMENTS AND/OR THE REGULATORY AGENCY HAVING JURISDICTION. SAID TESTS ARE TO BE WITNESSED AND CERTIFIED BY THE ENGINEER OF RECORD AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. COORDINATION OF TESTING AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S RESPONSIBILITY.
- 11. THE SANITARY SEWER COLLECTION SYSTEM SHALL NOT BE PLACED INTO SERVICE UNTIL APPROVAL FOR CONNECTION IS OBTAINED FROM CCUA. THE CONTRACTOR SHALL SUBMIT TO THE OWNER'S ENGINEER SANITARY SEWER SYSTEM AS-BUILT DRAWING INFORMATION AT LEAST SIX WEEKS PRIOR TO ANTICIPATED DATE OF CERTIFICATE OF COMPLETION APPLICATION. FAILURE TO OBTAIN EPC APPROVAL PRIOR TO PLACING THE SYSTEM IN OPERATION MAY RESULT IN SUBSTANTIAL FINES
- 12. THREE (3) FEET FROM JOINTS IN VACUUM TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPE LINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610 FAC. 13. SIX (6) FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE TYPE SANITARY SEWER, WASTEWATER FORCE MAINS OR PIPE LINES CONVEYING RECLAIMED WATER
- NOT REGULATED UNDER PART II OF CHAPTER 62-610 FAC. 14. ALL 4 INCH GRAVITY SANITARY SEWER LINES SHALL BE SCHEDULE SDR-26 PVC AND ALL SANITARY SEWER LINES 6 INCHES AND LARGER SHALL BE SDR-26 PVC.
- 15. SEWER LINES ARE DESIGNED TO FINISHED GRADE AND SHALL BE PROTECTED FROM DAMAGE UNTIL ALL WORK IS COMPLETE.
- 16. AT A MINIMUM , ALL SANITARY SEWER LINES 8 INCHES AND LARGER SHALL BE INSPECTED BY REMOTE VIDEO RECORDING SYSTEM AND COPES OF THE VIDEO SHALL BE PROVIDED TO THE ENGINEER FOR THEIR REVIEW AND APPROVAL. THE STATE AND / OR LOCAL REGULATORY AGENCY REGULATING THE CONSTRUCTION OF THE SYSTEM MA REQUIRE ADDITIONAL TESTING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL TESTING REQUIRED TO THE ENGINEER FOR FINAL APPROVAL BY REGULATORY AGENCIES.
- 17. ALL SANITARY SEWER FORCE MAINS SHALL BE DR 18 PVC.
- 21. CONTRACTOR SHALL GROUT FLOW CHANNELS IN ALL SANITARY SEWER MANHOLES.
- 22. CONTRACTOR SHALL PERFORM THE ON-SITE PRESSURE TEST AT THE POINT OF CONNECTION FOR MANIFOLD FORCEMAINS. THIS PRESSURE SHALL BE REPORTED TO THE ENGINEER OF RECORD FOR VERIFICATION PURPOSES, PRIOR TO THE SHOP DRAWING SUBMITTAL FOR THE PUMP EQUIPMENT. DVR

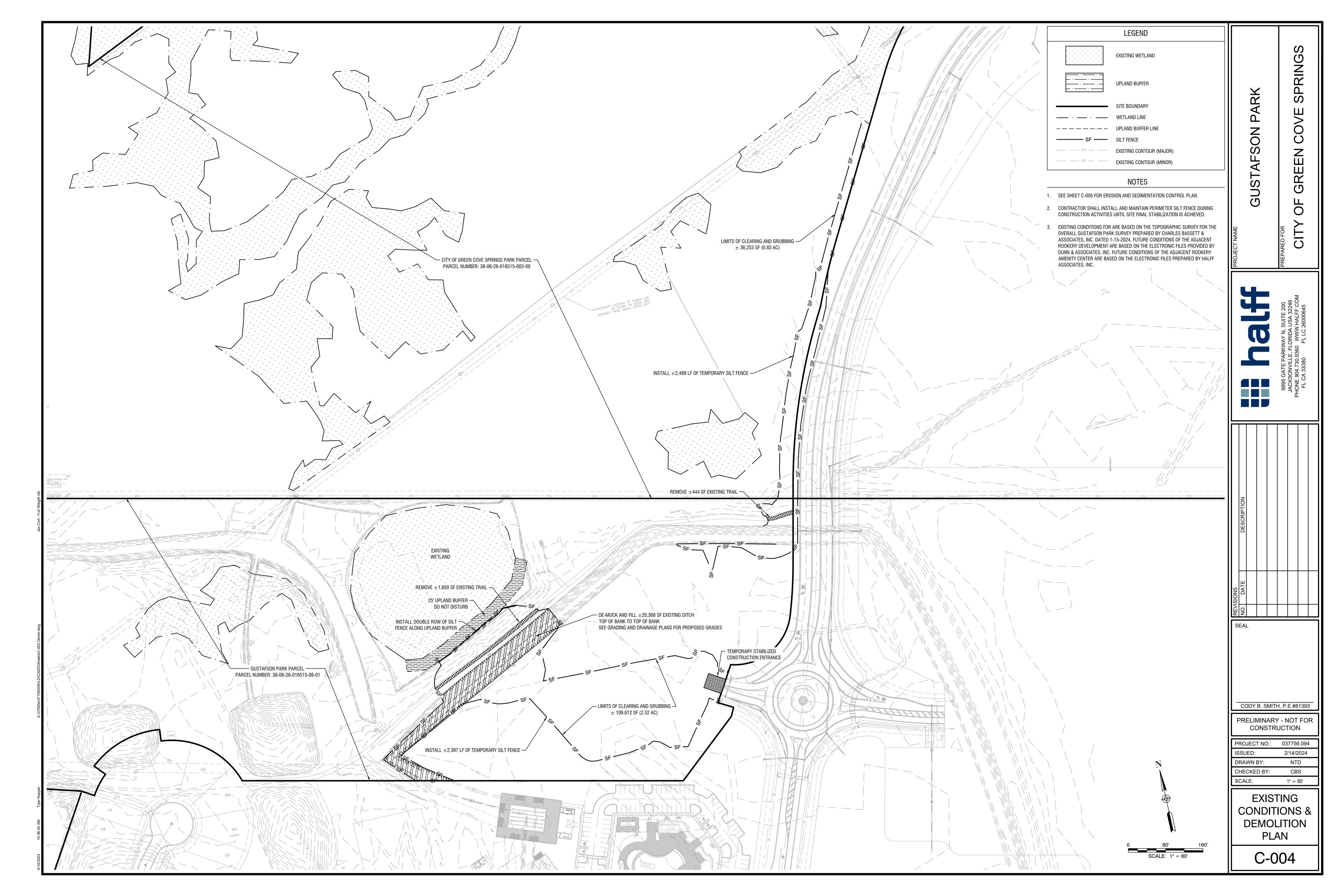
POTABLE WATER NOTES

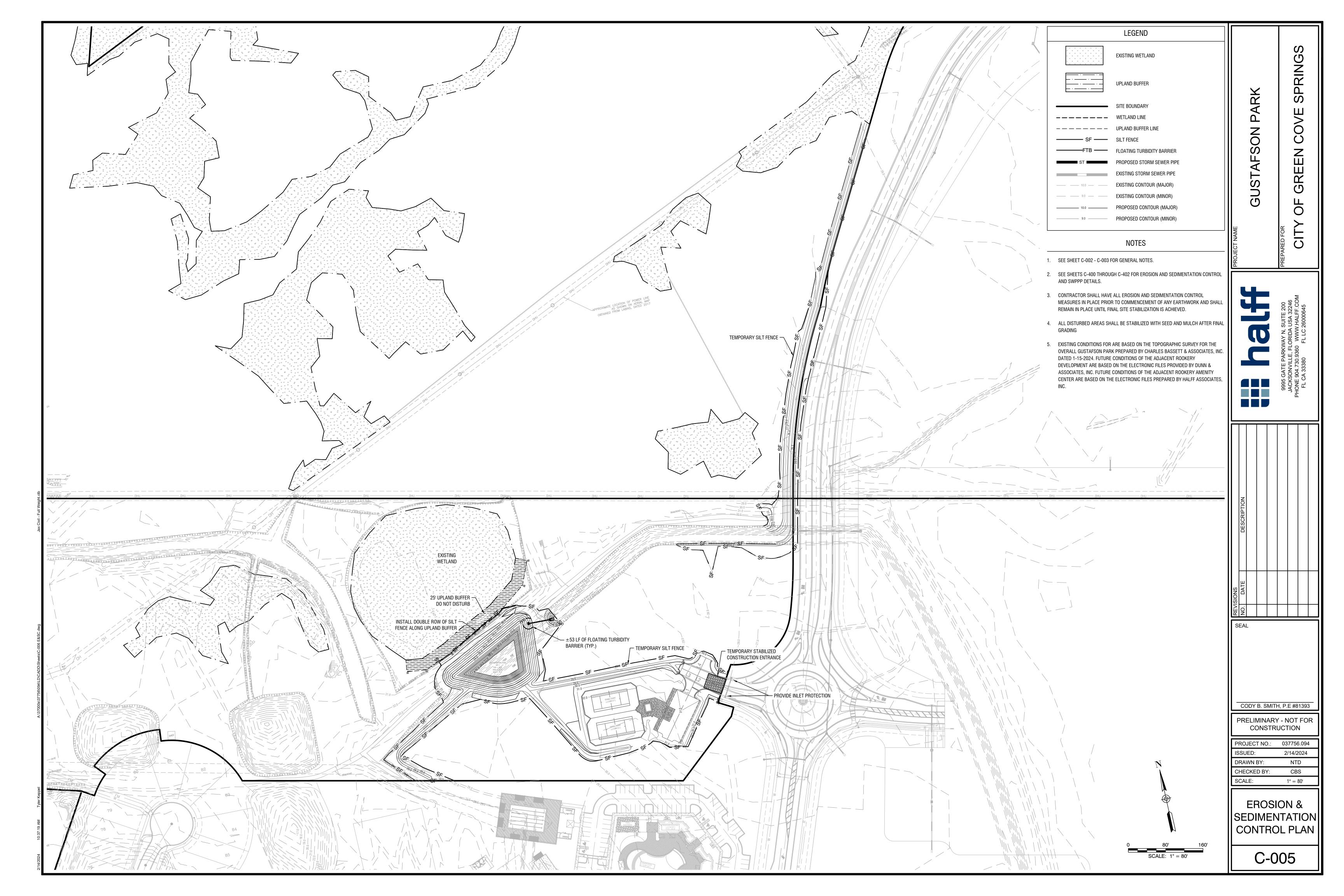
- 1. WHERE WATER MAIN IS LAID UNDER DITCHES, CULVERTS OR OT OF THE MAXIMUM DEFLECTION RECOMMENDED BY THE MANUFA
- NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED 2.1. A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET BET VACUUM-TYPE SANITARY SEWER, STORM SEWER, STORM V CHAPTER 62-610, F.A.C.; A HORIZONTAL DISTANCE OF AT LEAST SIX (6) FEET BETWEE 2.2. GRAVITY-TYPE SANITARY SEWER, OR A HORIZONTAL DISTA
- ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEV 2.3. A HORIZONTAL DISTANCE OF AT LEAST SIX (6) FEET BETWEE PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE
- 62-610. F.A.C.: AND A HORIZONTAL DISTANCE OF AT LEAST TEN (10) FEET BETW 2.4. SEWAGE TREATMENT AND DISPOSAL SYSTEM."
- CROSSINGS 3.1. WATER MAINS THAT CROSS ANY EXISTING OR PROPOSED G THE WATER MAIN IS AT LEAST 6 INCHES BELOW THE OTHER WATER MAINS THAT CROSS ANY EXISTING OR PROPOSED P 3.2. CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUT
- DISINFECTION OF THE POTABLE WATER AND FIRE MAINS SHALL
- ALL WATER MAINS SHALL BE PRESSURE TESTED AT 150 PSI F SECTION 'A' OF AWWA STANDARD C600 WITH LEAKAGE LIMITED WITH THE LOCAL REGULATORY AGENCY AND ENGINEER A MININ
- ALL D.I. FITTINGS FOR WATER MAINS SHALL BE THIN CEMENT I LINING FOR DUCTILE IRON PIPE AND FITTINGS FOR WATER." A SHALL BE COATED WITH ASPHALT OR COAL-TAR PRIOR TO BACK
- THE CONTRACTOR SHALL FOLLOW THE PROVISIONS OF FI CONSTRUCTION. FLORIDA STATUTE 386 STATES THAT THE DEF AUTHORITY BY DEP. SHALL ISSUE A BOIL WATER / BOTTLEI INTERRUPTION IN SERVICE OCCURS (WHICH RESULTS IN A CO OF LIVES OF INDIVIDUALS MAY BE THREATENED OR IMPAIRED SAMPLES RESULT OR WHEN THE SYSTEM PRESSURE DROPS REGULARITY AGENCY WHEN THE SYSTEM PRESSURE AND MI RESULTS. IN THE CASE WHERE THE SUPPLIER OF WATER ISSU SOON AS POSSIBLE AND PREFERABLY IN ADVANCE OF THE EVE BUSINESS AFFECTED AT THE CONTRACTORS COST.
- ALL BACKFLOW PREVENTERS SHALL BE LOCATED ADJACENT T AGENCY AND THE ENGINEER.
- 9. AT THE TIME OF OR PRIOR TO FINAL APPROVAL, A DETECTOR CH
- LINE SO THE WATER MAIN JOINTS ARE AS FAR AS POSSIBLE FR
- 11. THE WATER TAPS DEPICTED ON THESE DESIGN PLANS SHALL B FIRE HYDRANT INSTALLATIONS SHALL BE PERFORMED BY FOLLOWING SPECIAL CONDITIONS:
- 11.1. THE TAPS ARE TO BE SCHEDULED 48 HOURS IN ADVANCE B 11.2. TAPS REQUIRING METER INSTALLATIONS OF SIZE 2 INCHES
- ACCEPT THE METER INSTALLATION BY THE LOCAL UTILITY 11.3. LOCAL UTILITY FORCES WILL INSTALL THE METER UPON AP 11.4. ALL TAPS REQUIRING METER INSTALLATIONS OF SIZE 3 INC LOCAL UTILITY COMPANY
- 12. ALL PIPELINE AND APPURTENANCE MATERIAL IN CONTACT WITH
- 13. HYDRANTS SHALL BE LOCATED WITHIN ONE FOOT OF THE SIDE LENGTH (20 FEET) FROM AN INTERSECTION CORNER.
- 14. HYDRANTS SHALL BE A MINIMUM OF 5 20' FROM BACK OF CURB
- 15. PER NFPA 1, CLEARANCES OF SEVEN AND ONE HALF FEET (7-1/
- THE HYDRANT MUST BE MAINTAINED 16 HYDRANTS SHALL BE A MINIMUM OF 4 FEFT FROM BACK OF VA
- INDEX 700 CLEAR ZONE CRITERIA SHALL BE MET. HYDRANTS SH . HYDRANTS ADJACENT TO PARKING AREAS WHERE THE NOZZLE
- OF 4-INCH (MIN) STEEL PIPE THREE FEET ABOVE AND BELOW BOLLARDS SHALL BE PAINTED OSHA SAFETY YELLOW. BOLLARD
- 18. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AN STRUCTURES. VARIATIONS AFFECTING THE DESIGN OF THE SY DILIGENCE FOR FIELD INVESTIGATION OF TIE-IN CONNECTIONS (
- 19. UTILITY CONFLICTS: CONFLICTS BETWEEN WATER AND STORM 20. CONTRACTOR IS HEREBY ADVISED THAT THE WATER CERTIFIC BUILDING CERTIFICATE OF OCCUPANCY. THIS PROCESS TYPIC REQUIRED INFORMATION. IN SOME CASES THIS PROCESS CAN

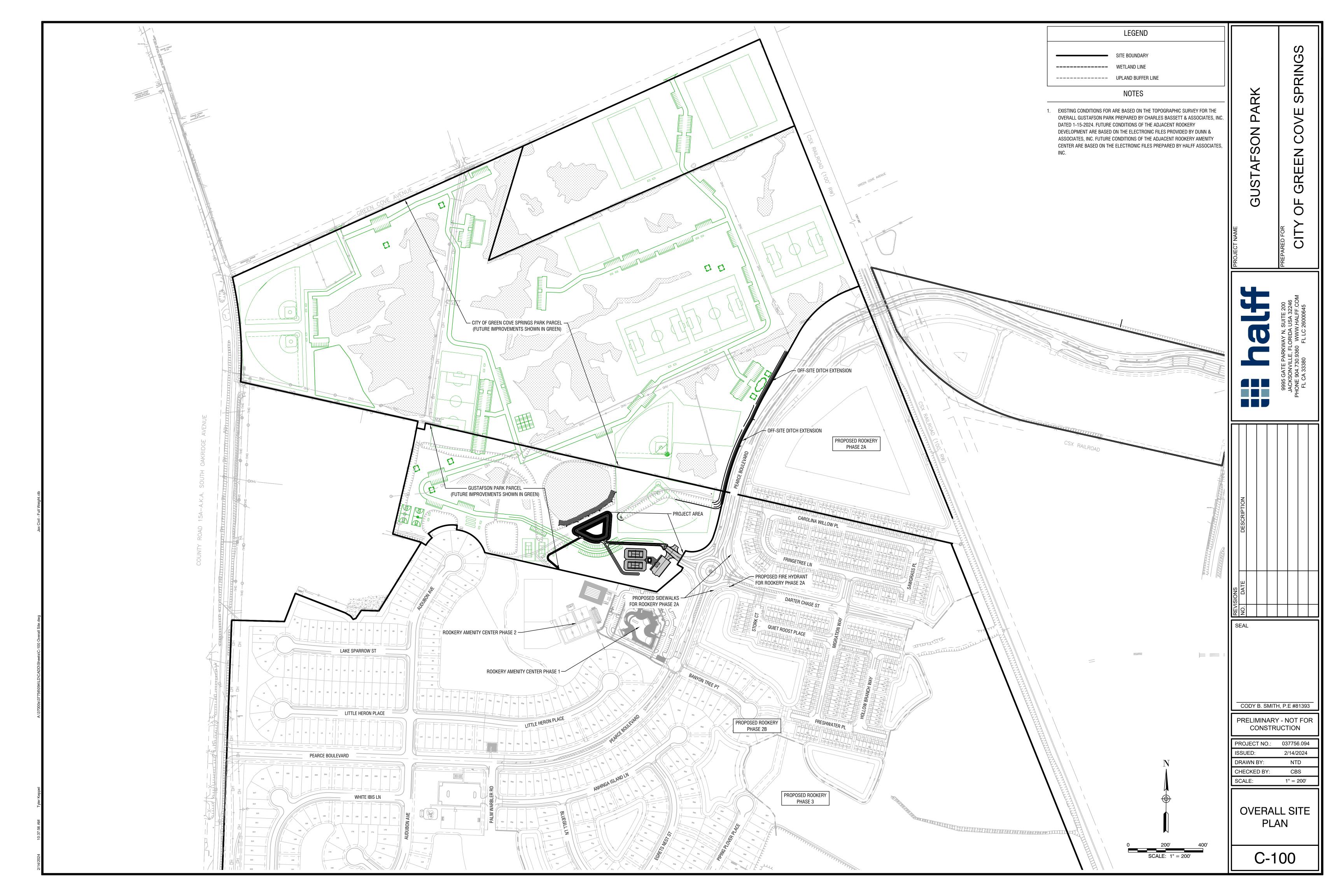
ADA/ACCESSIBILITY NOTES

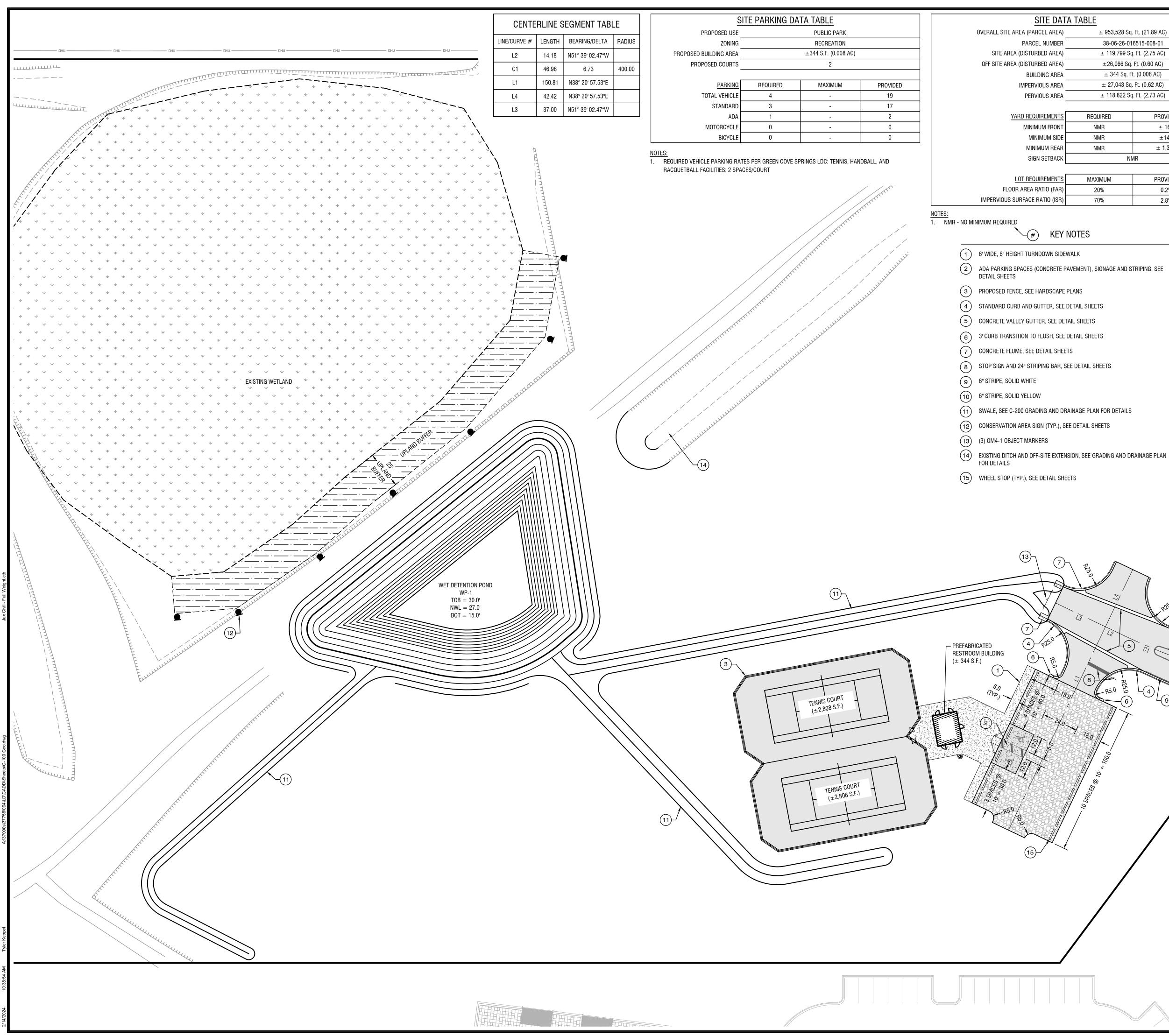
- 1. ALL SIDEWALKS, CURB RAMPS, ACCESSIBLE PARKING SPACES STANDARDS FOR ACCESSIBLE DESIGN AND THE FLORIDA BUIL
- 2. ALL SIDEWALK SLOPES SHALL CONFORM TO THE FOLLOWING
- 2.1. CROSS SLOPE SHALL NOT EXCEED 1V:48H PERPENDICUL
- 2.2. LONGITUDINAL SLOPE SHALL NOT EXCEED 1V:20H IN THE
- 2.3. CURB RAMP SLOPES SHALL NOT EXCEED 1V:12H
- 2.4. ALL CURB RAMPS SHALL INCLUDE LANDING AT THE TOP O CURB RAMP. WITH SLOPES NOT TO EXCEED 2% IN ANY D

 POTABLE WATER NOTES WHERE WATER MAIN IS LAID UNDER DITCHES, CULVERTS OR OTHER PIPELINES WITHOUT FITTINGS, THE MAXIMUM DEFLECTION AT ANY JOINT SHALL NOT EXCEED 50% OF THE MAXIMUM DEFLECTION RECOMMENDED BY THE MANUFACTURER OF THE PIPE FURNISHED. NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT WILL BE LAID TO PROVIDE: A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE ON ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, STORM SWERP, SWERP, STARD SWERP, STORM SWERP, SWERP, STARD SWERP, STORM SWERP, SWERP, STORM SWERP, S	AFSON PARK	EN COVE SPRINGS
 CROSSINGS: WATER MAINS THAT CROSS ANY EXISTING OR PROPOSED GRAVITY OR VACUUM TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAINS THAT CROSS ANY EXISTING OR PROPOSED PRESSURE TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCEMAIN OR PIPE LINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPE LINE. DISINFECTION OF THE POTABLE WATER AND FIRE MAINS SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C661. ALL WATER MAINS SHALL BE PRESSURE TESTED AT 150 PSI FOR 2 HOURS AND FORCE MAINS SHALL BE TESTED AT 150 PSI FOR 2 HOURS IN ACCORDANCE WITH SECTION 'A' OF AWWA STANDARD C600 WITH LEAKAGE LIMITED TO THAT DETERMINED BY THE APPROPRIATE FORMULA. ALL PRESSURE TESTING SHALL BE SCHEDULED WITH THE LOCAL REGULATORY AGENCY AND ENGINEER A MINIMUM OF 48 HOURS IN ADVANCE. ALL D. FITTINGS FOR WATER MAINS SHALL BE THIN CEMENT LINED. THE LINING SHALL COMPLY WITH ANSI STANDARD A21.4 (AWWA C104, LATEST "CEMENT-MORTAR LINING FOR DUCTILE IRON PIPE AND FITTINGS FOR WATER." ALL BOLTS, NUTS, STUDS AND OTHER UNCOATED PARTS OF JOINTS FOR UNDERGROUND INSTALLATION SHALL BE COATED WITH ASPHALT OR COAL-TAR PRIOR TO BACKFILLING. THE CONTRACTOR SHALL FOLLOW THE PROVISIONS OF FLORIDA STATUTE 386 IF ANY WATER LINE IS BROKEN OR WATER SYSTEM IS SHUT OFF DURING CONSTRUCTION. FLORIDA STATUTE 386 STATES THAT THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) OR THE LOCAL REGULATORY AGENCY DESIGNATED AUTHORITY BY DEP, SHALL ISSUE A BOIL WATER / BOTTLED WATER NOTICE FOR ALL AFFECTED CUSTOMERS OF A PUBLIC WATER SUPPLY SYSTEM WHEN AN INTERRUPTION IN SERVICE OCCURS (WHICH RESULTS IN A COMPROMISE OF THE SYSTEM INTEGRITY WHEN THE HEALTH OR LIFE OF AN INDIVIDUAL. OR THE HEALTH OF LIVES OF INDIVIDUALS MAY BE THREATENED OR IMPARED OR BY WHICH DISESE MAY BE CAUSED) OR WHEN A HISTORY OF WHEN A HIERATION SHALL BE UNTERRING OF THE SYSTEM INTEGRITY WHEN THE HEALTH OR LIFE OF AN INDIVIDUAL. OR THE		PREPARED FOR CITY OF GRE
 SOON AS POSSIBLE AND PREFERABLY IN ADVANCE OF THE EVENT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SUPPLY BOTTLED WATER INDIVIDUALS AND BUSINESS AFFECTED AT THE CONTRACTORS COST. ALL BACKFLOW PREVENTERS SHALL BE LOCATED ADJACENT TO RIGHT-OF-WAY ON PRIVATE PROPERTY UNLESS OTHERWISE APPROVED BY THE LOCAL REGULATORY AGENCY AND THE ENGINEER. AT THE TIME OF OR PRIOR TO FINAL APPROVAL, A DETECTOR CHECK AFFIDAVIT SHALL BE PROVIDED TO THE LOCAL REGULATORY AGENCY AND THE ENGINEER. AT ALL UTILITY CROSSINGS REGARDLESS OF VERTICAL SEPARATION ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPE LINE SO THE WATER MAIN JOINTS ARE AS FAR AS POSSIBLE FROM THE OTHER PIPE LINE OR PIPES SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPE LINE SO THE WATER MAIN JOINTS ARE AS FAR AS POSSIBLE FROM THE OTHER PIPE LINE OR PIPES SHALL BE ARRANGED SO ALL WATER MAIN JOINTS ARE AT LEAST: THE WATER TAPS DEPICTED ON THESE DESIGN PLANS SHALL BE CONSTRUCTED AS FOLLOWS; ALL POTABLE AND IRRIGATION WATER TAPS, FIRE LINE SERVICES AND FIRE HYDRANT INSTALLATIONS SHALL BE PERFORMED BY A LICENSED MASTER PLUMBER OR LICENSED UNDERGROUND UTLITY CONTRACTOR UNDER THE FOLLOWING SPECIAL CONDITIONS: THE TAPS ARE DO BE SCHEDULED 48 HOURS IN ADVANCE BY THE CONTRACTOR WITH THE LOCAL REGULATORY AGENCY AND ENGINEER. TAPS REQUIRING METER INSTALLATIONS OF SIZE 2 INCHES AND BELOW MUST INCLUDE THE SERVICE PIPE, METER BOX, CORPORATION STOP SIZED READY TO ACCEPT THE METER INSTALLATIONS OF SIZE 2 INCHES AND BELOW MUST INCLUDE THE SERVICE PIPE, METER BOX, CORPORATION STOP SIZED READY TO ACCEPT THE METER INSTALLATIONS OF SIZE 2 INCHES AND BELOW MUST INCLUDE THE SERVICE PIPE, METER BOX, CORPORATION STOP SIZED READY TO ACCEPT THE METER INSTALLATIONS OF SIZE 3 INCHES AND ABOVE SHALL TERMINATE SIZED READY FOR VAULT, METER AND BYPASS INSTALLATION BY LOCAL UTILITY COMPANY. ALCOAL UTILITY FORCES WILL INSTALL THE METER UPON APPLICATION AND PAYMENT BY LICENSED MASTER PLUMBER OR LI		9995 GATE PARKWAY N, SUITE 200 JACKSONVILLE, FLORIDA USA 32246 PHONE 904.730.9360 WWW.HALFF.COM FL CA 33380 FL LC 26000645
 HYDRANTS SHALL BE A MINIMUM OF 5 - 20' FROM BACK OF CURB. THE PUMPER DISCHARGE WILL FACE THE NEAREST ROADWAY. PER NEPA 1, CLEARANCES OF SEVEN AND ONE HALF FEET (7-1/2 FT.) IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANT, AND FOUR FEET (4 FT.) TO THE REAR OF THE HYDRANT MUST BE MAINTAINED. HYDRANTS SHALL BE A MINIMUM OF 4 FEET FROM BACK OF VALLEY GUTTER (MIAMI CURB) AND 2 FEET FROM BACK OF UPRIGHT CURB. FOR RURAL SECTIONS, FDOT INDEX 700 CLEAR ZONE CRITERIA SHALL BE MET. HYDRANTS SHALL BE A MINIMUM OF 10 FEET FROM EDGE OF PAVEMENT. HYDRANTS ADJACENT TO PARKING AREAS WHERE THE NOZZLE CAP IS 5 - 20 FEET FROM BACK OF CURB. THE EDGE OF PAVEMENT SHALL BE PROTECTED BY BOLLARDS OF 4 HILD THE FEET FROM BOYE AND EFLUED WITH CONCRETE AND SET IN A CUBIC YARD OF CONCRETE, PLACED AS REQUIRED. BOLLARDS SHALL BE PAINTED OSHA SAFETY YELLOW. BOLLARDS SHALL NOT BLOCK ACCESS TO THE FIRE HYDRANT. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF ALL UTILITY CONNECTIONS PRIOR TO ORDERING MATERIALS OR PRE-CASTING STRUCTURES. VARIATIONS AFFECTING THE ODESIGN OF THE SYSTEM SHOULD BE REPORTED TO THE ENGINEER OF RECORD IMMEDIATELY. FAILURE TO PROVIDE DUE DILIGENCE FOR FIELD INVESTIGATION OF TIE-IN CONNECTIONS OF ALL UTILITY CONNECTIONS PRIOR TO ORDERING MATERIALS OR PRE-CASTING STRUCTURES. VARIATIONS AFFECTING THE ODESIGN OF THE SYSTEM SHOULD BE REPORTED TO THE ENGINEER OF RECORD IMMEDIATELY. FAILURE TO PROVIDE DUE DILIGENCE FOR FIELD INVESTIGATION OF TIE-IN CONNECTIONS COULD RESULT IN REJECTION OF WORK AND NON PAYMENT. UTILITY CONFLICTS: CONFLICTS BETWEEN WATER AND STORM OR SANITARY SEWER TO BE RESOLVED BY ADJUSTING THE WATER LINES AS NECESSARY. CONTRACTOR IS HEREBY ADVISED THAT THE WATER CERTIFICATION AND CLEARANCE PROCESS MUST BE COMPLETED PRIOR TO ANY TEMPORARY OR PERMANENT BUILDING CERTIFICATE OF OCCUPANCY. THIS PROCESS CAN TAKE SIGNIFICANTLY LONGER IF AS-BUILT OR TESTING INFORMATION IS INACCURATE OR MISSING OR IF ITEMS ARE NO	DESCRIPTION	
 ADA/ACCESSIBILITY NOTES ALL SIDEWALKS, CURB RAMPS, ACCESSIBLE PARKING SPACES AND ACCESS AISLES, AND ACCESSIBLE ROUTES SHALL BE CONSTRUCTED IN ACCORDANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE FLORIDA BUILDING CODE ACCESSIBILITY, LATEST EDITIONS. ALL SIDEWALK SLOPES SHALL CONFORM TO THE FOLLOWING CRITERIA: CROSS SLOPE SHALL NOT EXCEED 1V:48H PERPENDICULAR TO THE DIRECTION OF TRAVEL LONGITUDINAL SLOPE SHALL NOT EXCEED 1V:20H IN THE DIRECTION OF TRAVEL OR HANDRAIL SHALL BE INSTALLED, EXCEPT FOR CURB RAMPS. CURB RAMP SLOPES SHALL NOT EXCEED 1V:20H IN THE DIRECTION OF TRAVEL OR HANDRAIL SHALL BE INSTALLED, EXCEPT FOR CURB RAMPS. CURB RAMP SLOPES SHALL NOT EXCEED 1V:20H IN THE DIRECTION OF THE CURB RAMPS, WITH MINIMUM LENGTH OF 3 FT AND MINIMUM WIDTH EQUAL TO THE WIDTH OF THE CURB RAMPS, WITH MINIMUM LENGTH OF 3 FT AND MINIMUM WIDTH EQUAL TO THE WIDTH OF THE CURB RAMP, WITH SLOPES NOT TO EXCEED 2% IN ANY DIRECTION 	REVISIONS NO. DATE SEAT	
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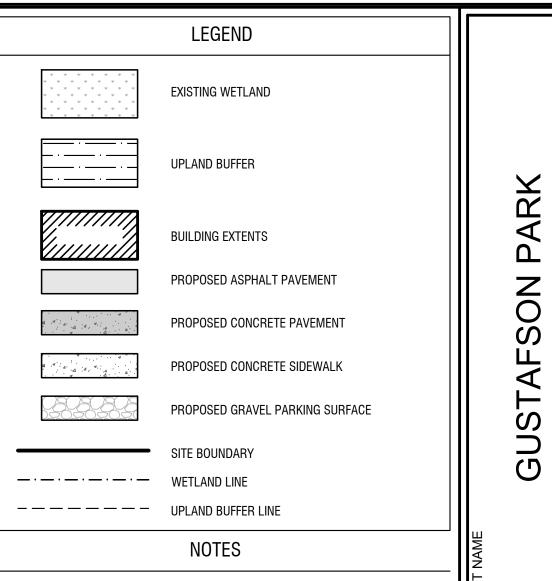








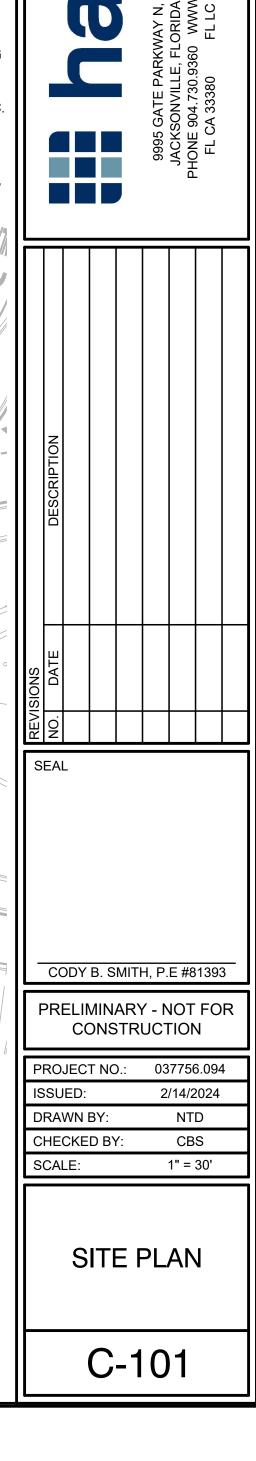
ABLE						
± 953,528 Sq. Ft. (21.89 AC)						
38-06-26-016515-008-01						
± 119,799 Sq	. Ft. (2.75 AC)					
±26,066 Sq.	Ft. (0.60 AC)					
± 344 Sq. F	t. (0.008 AC)					
± 27,043 Sq. Ft. (0.62 AC)						
± 118,822 Sq. Ft. (2.73 AC)						
REQUIRED	PROVIDED					
NMR	± 169'					
NMR	±145'					
NMR	± 1,366'					
NN	/IR					
MAXIMUM	PROVIDED					
20%	0.2%					
70%	2.8%					



- 1. SEE SHEET C-003 C-004 FOR GENERAL NOTES.
- 2. SEE SHEET C-102 FOR SITE STANDARD DETAILS.
- 3. SEE HARDSCAPE PLANS FOR TURF BLOCK, GRAVEL, PAVER TYPICAL SECTIONS, AND FENCE DETAILS.
- 4. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS INDICATED OTHERWISE.
- 5. ALL ROADWAY AND DRIVE AISLE PAVEMENT STRIPING SHALL BE THERMOPLASTIC, IN ACCORDANCE WITH FDOT STANDARD DETAILS AND STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. ALL PARKING SPACE STRIPING SHALL BE REFLECTIVE PAVEMENT PAINT.
- 6. SEE DETAIL SHEETS FOR CONCRETE PAVEMENT TYPICAL CONTROL JOINT SPACING
- 7. EXISTING CONDITIONS FOR ARE BASED ON THE TOPOGRAPHIC SURVEY FOR THE OVERALL GUSTAFSON PARK PREPARED BY CHARLES BASSETT & ASSOCIATES, INC. DATED 1-15-2024. FUTURE CONDITIONS OF THE ADJACENT ROOKERY DEVELOPMENT ARE BASED ON THE ELECTRONIC FILES PROVIDED BY DUNN & ASSOCIATES, INC. FUTURE CONDITIONS OF THE ADJACENT ROOKERY AMENITY CENTER ARE BASED ON THE ELECTRONIC FILES PREPARED BY HALFF ASSOCIATES INC.

SCALE: 1" = 30'





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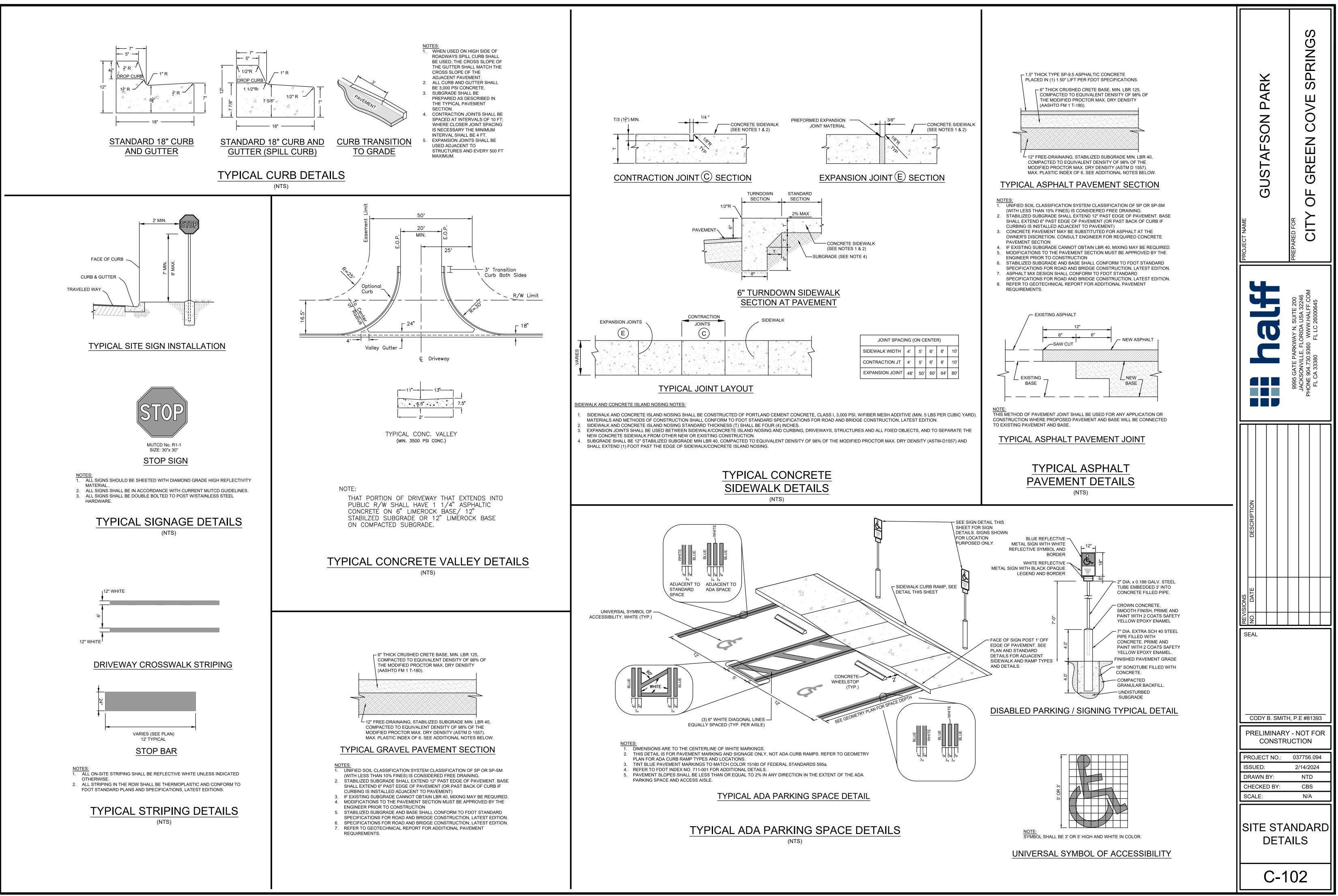
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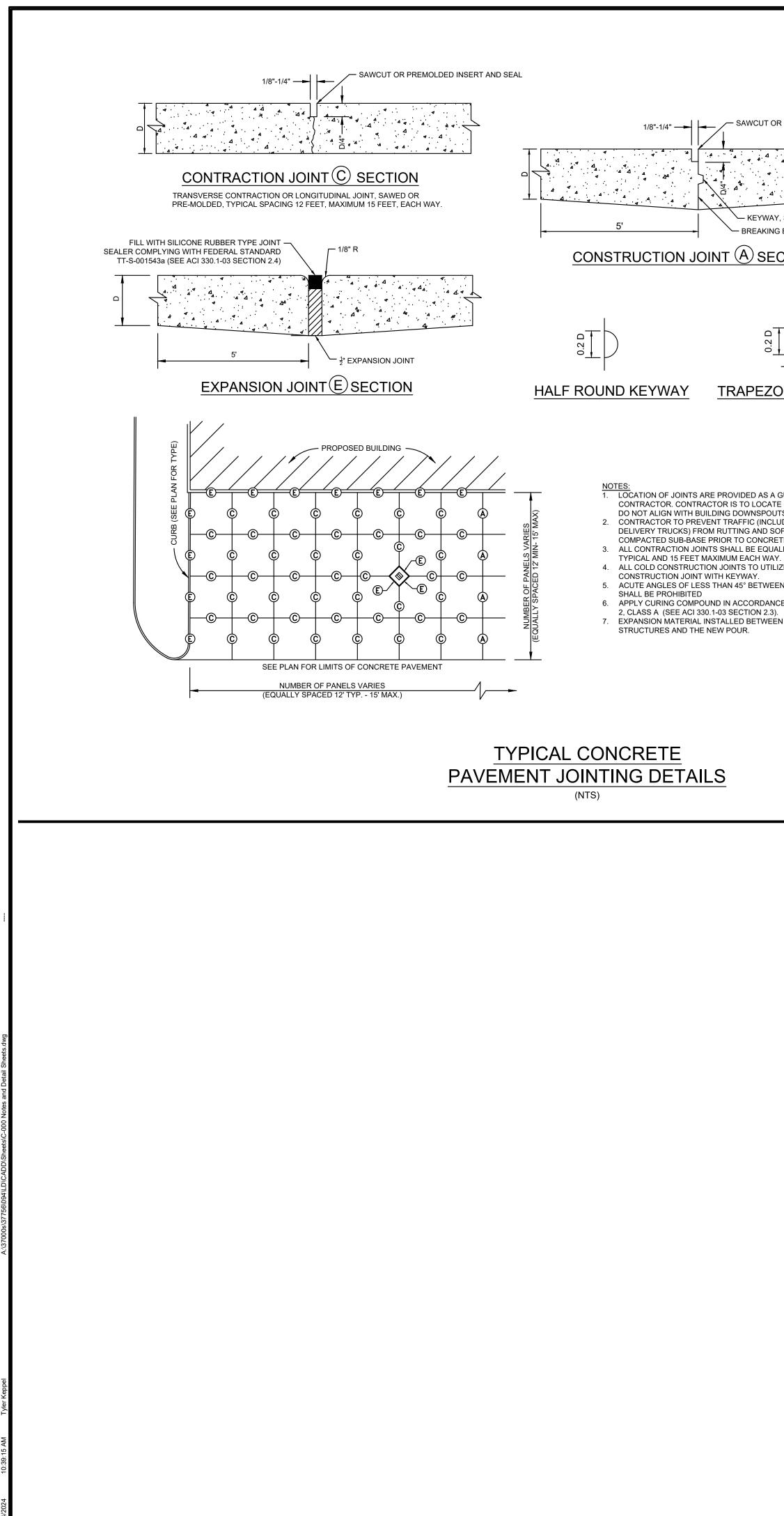
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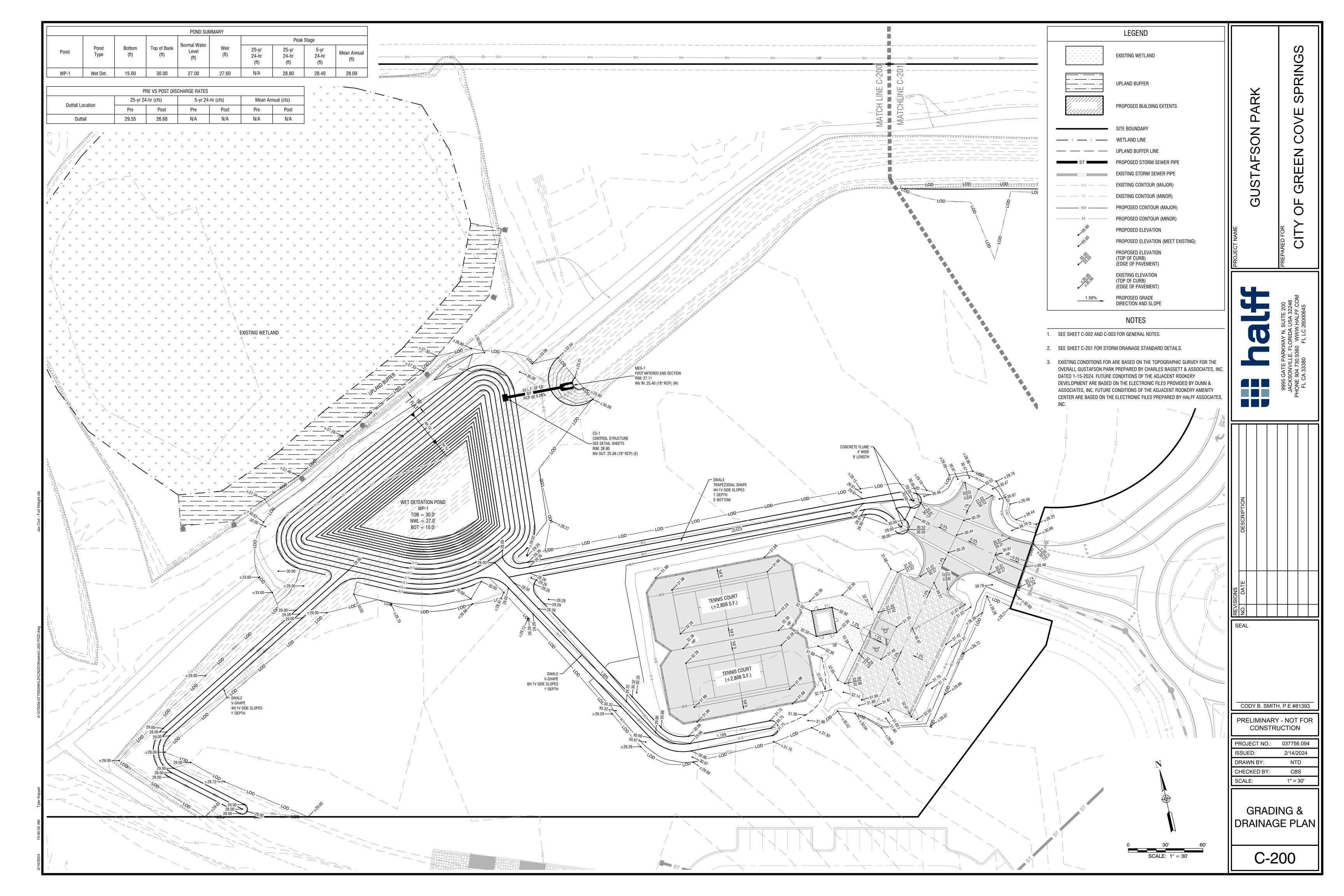
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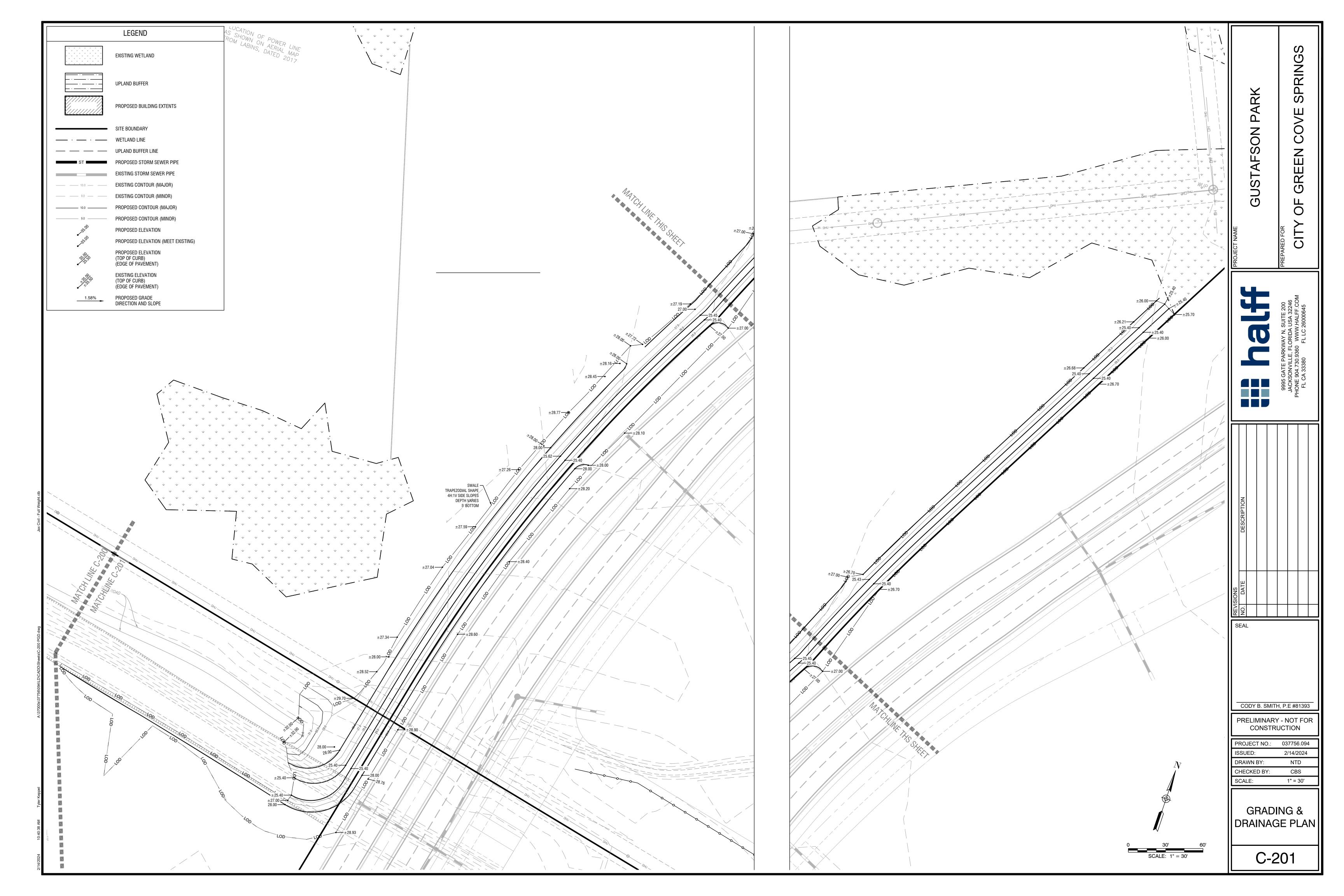
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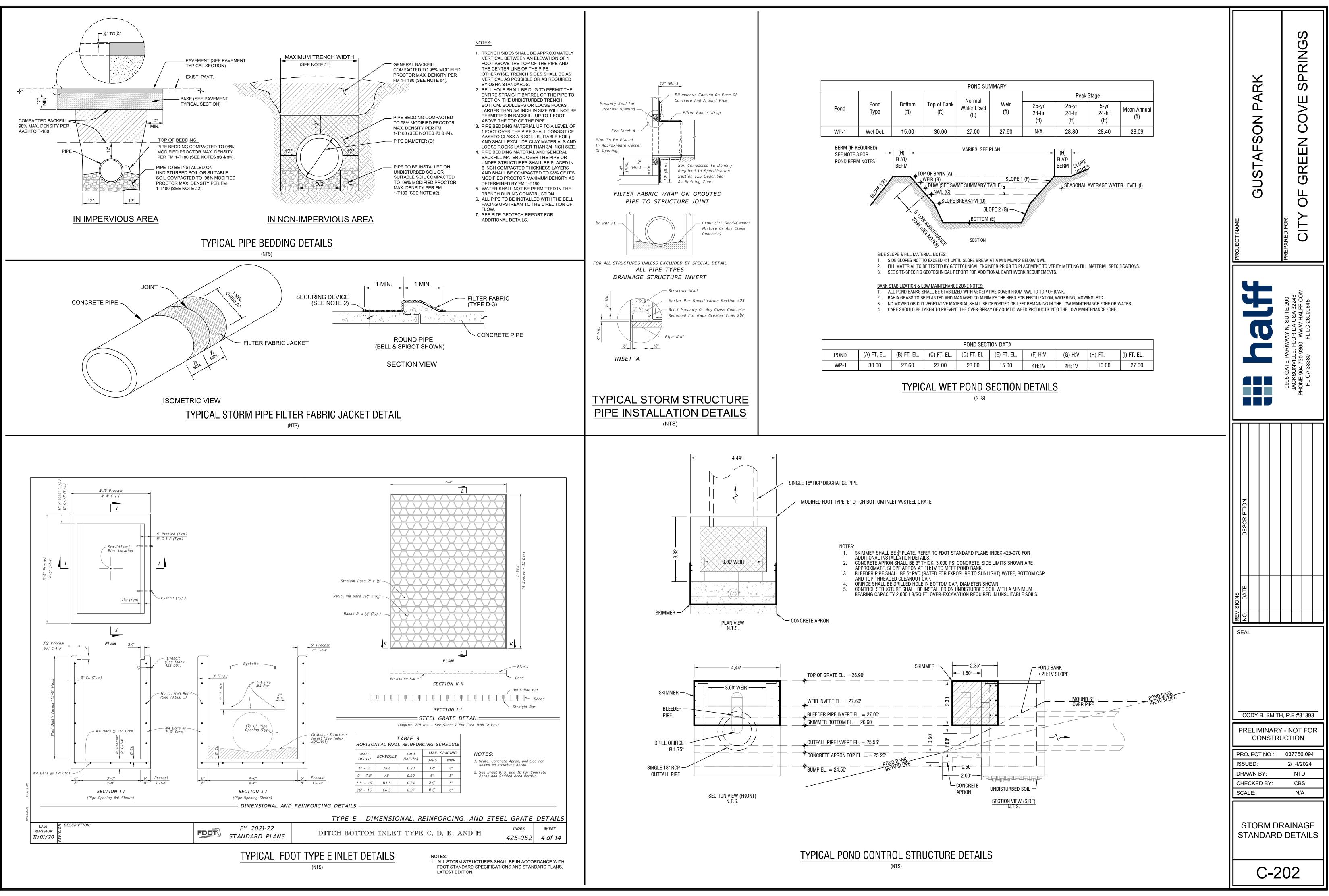


T OR PREMOLDED INSERT AND SEAL	
VAY, SEE DETAILS THIS SHEET (ING BOND WITH CURING COMPOUND	
ECTION	6" THICK 4,000 PSI CONCRETE PAVEN
0.1 D	12" FREE-DRAINAING, STABILIZED SUBGRADE MIN. LBR 40, COMPAC EQUIVALENT DENSITY OF 98% OF THE MODIFIED PROCTOR MAX. DRY D (ASTM D 1557). MAX. PLASTIC INDEX OF 6. SEE ADDITIONAL NOTES
ZOIDAL KEYWAY	CONCRETE PAVEMENT SECT
S A GUIDE TO THE CATE JOINTS TO ASSURE THEY OUTS. ICLUDING CONCRETE D SOFTENING FINISHED CRETE PLACEMENT.	 <u>NOTES:</u> UNIFIED SOIL CLASSIFICATION SYSTEM CLASSIFICATION OF SP OR SP-SM (WITH I CONSIDERED FREE DRAINING. STABILIZED SUBGRADE SHALL EXTEND 12" PAST EDGE OF PAVEMENT. BASE SHA EDGE OF PAVEMENT (OR PAST BACK OF CURB IF CURBING IS INSTALLED ADJACE IF EXISTING SUBGRADE CANNOT OBTAIN CBR 30, MIXING MAY BE REQUIRED. MODIFICATIONS TO THE PAVEMENT SECTION MUST BE APPROVED BY THE ENGIN CONSTRUCTION STABILIZED SUBGRADE AND BASE SHALL CONFORM TO FDOT STANDARD SPECIF AND BRIDGE CONSTRUCTION, LATEST EDITION. CONCRETE MIX DESIGN SHALL CONFORM TO FDOT STANDARD SPECIFICATIONS I CONSTRUCTION, LATEST EDITION. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL PAVEMENT REQUIREMENTS
QUALLY SPACED, 12 FEET VAY. ITILIZE TYPE 'A'	TYPICAL CONCRETE PAVEMENT
WEEN INTERSECTING JOINTS ANCE WITH ASTM C 309, TYPE 2.3). VEEN EXISTING OR PROPOSED	(NTS)

P SI CONCRETE PAVEMENT	PROJECT NAME GUSTAFSON PARK	PREPARED FOR CITY OF GREEN COVE SPRINGS	
IS INSTALLED ADJACENT TO PAVEMENT) MAY BE REQUIRED. PROVED BY THE ENGINEER PRIOR TO DOT STANDARD SPECIFICATIONS FOR ROAD DARD SPECIFICATIONS FOR ROAD AND BRIDGE TEMENT REQUIREMENTS. AVEMENT DETAILS		9995 GATE PARKWAY N, SUITE 200 JACKSONVILLE, FLORIDA USA 32246 PHONE 904.730.9360 WWW.HALFF.COM FL CA 33380 FL LC 26000645	
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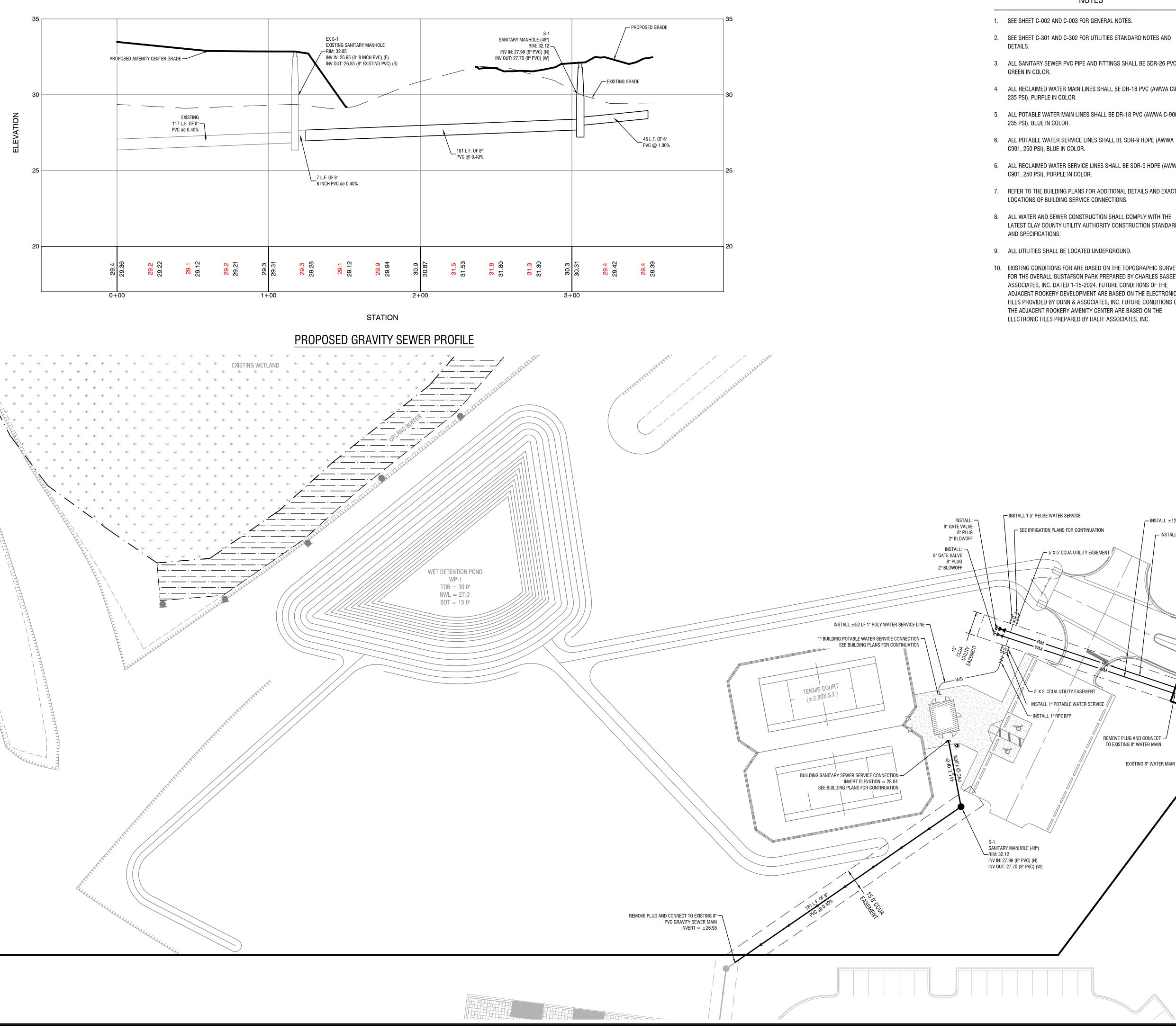




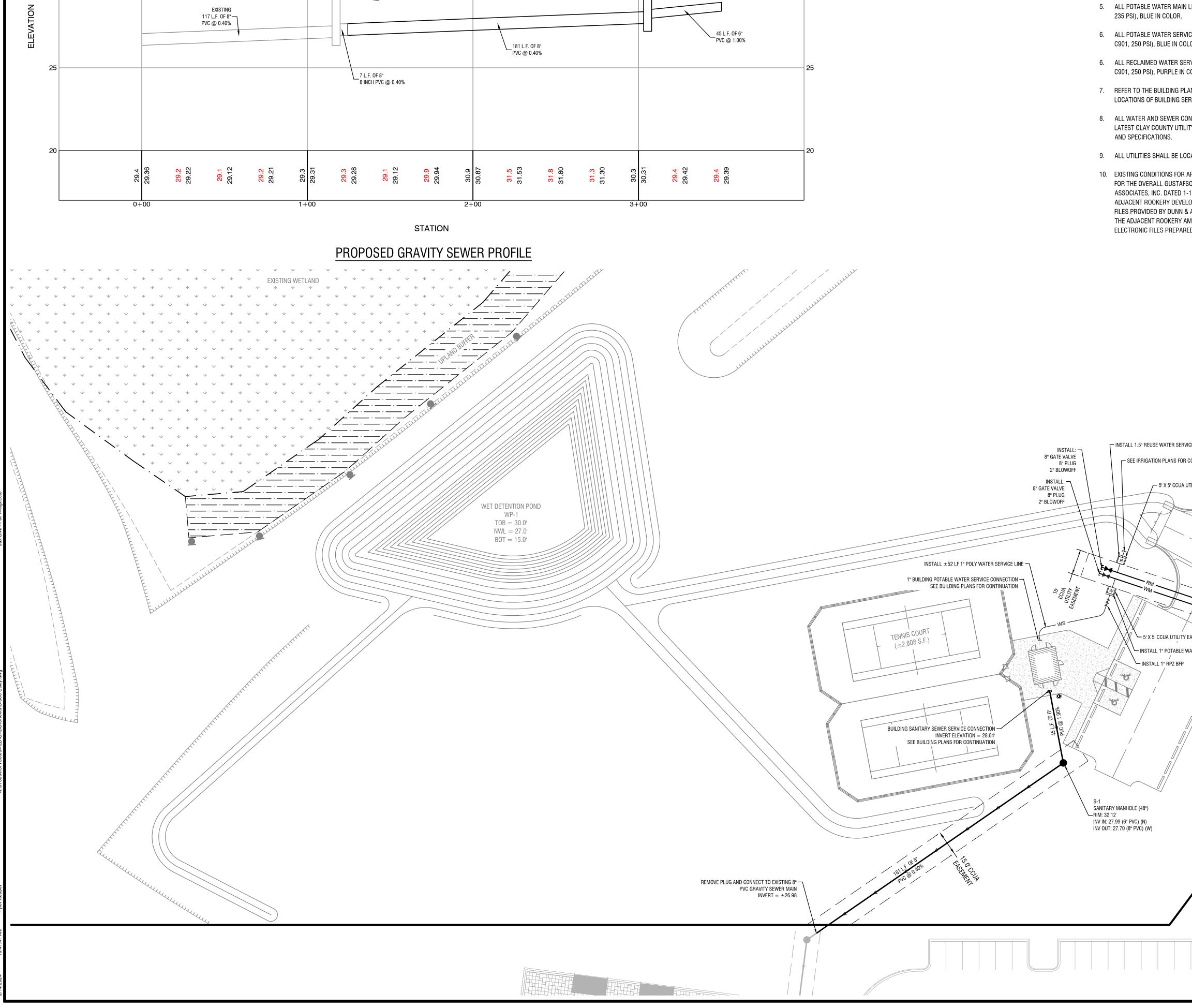


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- 235 PSI), PURPLE IN COLOR.

 - C901, 250 PSI), PURPLE IN COLOR.

NOTES

3. ALL SANITARY SEWER PVC PIPE AND FITTINGS SHALL BE SDR-26 PVC,

4. ALL RECLAIMED WATER MAIN LINES SHALL BE DR-18 PVC (AWWA C900,

5. ALL POTABLE WATER MAIN LINES SHALL BE DR-18 PVC (AWWA C-900,

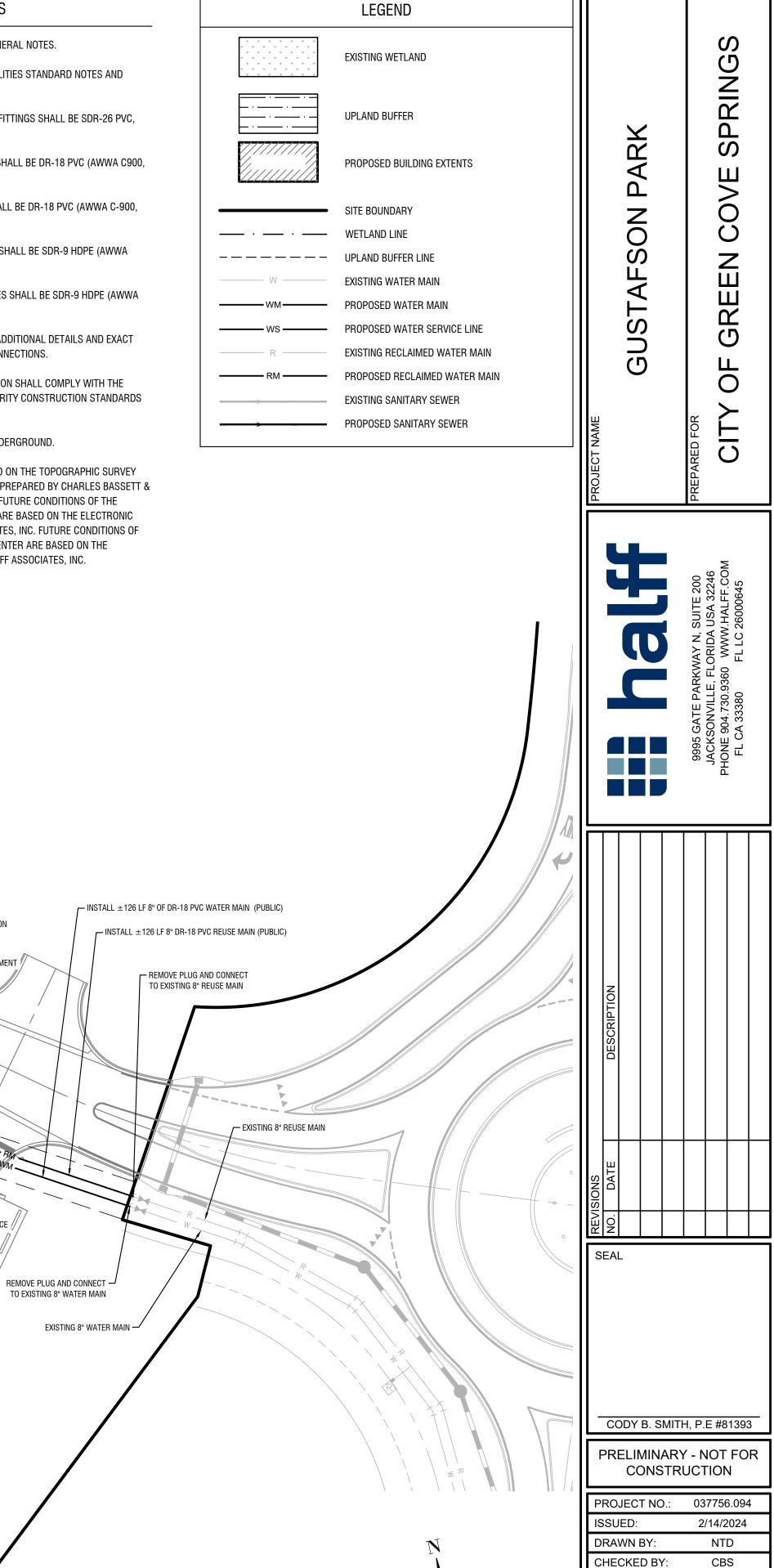
6. ALL POTABLE WATER SERVICE LINES SHALL BE SDR-9 HDPE (AWWA

6. ALL RECLAIMED WATER SERVICE LINES SHALL BE SDR-9 HDPE (AWWA

7. REFER TO THE BUILDING PLANS FOR ADDITIONAL DETAILS AND EXACT

LATEST CLAY COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS

10. EXISTING CONDITIONS FOR ARE BASED ON THE TOPOGRAPHIC SURVEY FOR THE OVERALL GUSTAFSON PARK PREPARED BY CHARLES BASSETT & ASSOCIATES, INC. DATED 1-15-2024. FUTURE CONDITIONS OF THE ADJACENT ROOKERY DEVELOPMENT ARE BASED ON THE ELECTRONIC FILES PROVIDED BY DUNN & ASSOCIATES, INC. FUTURE CONDITIONS OF THE ADJACENT ROOKERY AMENITY CENTER ARE BASED ON THE



SCALE: 1" = 30'

SCALE:

1" = 30'

UTILITY PLAN

C-300

OUTLINE SPECIFICATIONS FOR CONSTRUCTION OF SEWAGE COLLECTION SYSTEM

01. INTENTION. It is the declared and acknowledged intention to secure a new sewerage system, complete, in accordance with the plans, specifications, and contract documents. All new work shall be in accordance with Clay County Utility Authority Specifications and Details and with Clay County Utility Authority Approved Materials Manual and Clay County Engineering Department Details and Specifications and any other Government Regulatory Agency. All work shall conform to the above, whether or not specifically called out or noted on the plans.

02. GENERAL, All materials shall be of those listed in the CCUA Approved Materials Manual. The installation shall be warranted by the Contractor as to materials, workmanship and accuracy of the As-built drawings for a period of two years from the date of completion of the work or beneficial use of the facilities. Workmanship shall be of good quality; i.e., sewers shall be laid true to line and grade, fittings shall be properly installed and restrained, trenches shall be properly excavated and backfilled, manholes shall be installed at locations and to elevations shown on the plans.

02.1 Contractor LICENSE AND APPROVAL. Utility reserves the right to approve or deny approval of Contractor prior to construction of any on-site or off-site utility facilities. Contractor must hold a State Of Florida Underground Utility Contractors license, that named contracting company being the one doing the work on project, and demonstrate acceptable experience in the field of utility construction 03. SURVEYS. The Utility Contractor shall provide all surveys necessary for the layout and construction of the

work of his contract. 04. EARTHWORK. Earthwork shall include all excavation, fill and backfill (hand/machine), compaction and rough grading of materials encountered. No unsuitable materials clay, muck, or peat removed from pipe trenches are to be used for backfill. All fill or backfill shall be either sand or sandy clay, free of roots, trash or other debris. All backfill alongside of and to a beight twenty-four inches above all pipe shall be free of clay or organic material compacted in lifts, the first of which shall be to the spring line of the pipe by either hand or machine operation carefully to 98%. All other backfill shall be compacted by either hand or machine operation carefully to 95%

(outside of paving), 98% (under paving) of its optimum moisture content as determined by ASTM D698, latest. Copies of compaction density test reports from a licensed testing agency shall be made available to CCUA if 05. MANHOLES. Manhole bases, sections, and cones shall conform to the requirements of ASTM C478, Specifications for Precast Reinforced Concrete Manhole Sections. Cement shall meet the requirements of ASTM C150. Specifications for Portland Cement, Type II. Concrete shall meet the minimum requirements for Class "A" Concrete Work. Minimum wall thickness shall be 1/12 the inside diameter in inches plus one (1) inch. Bases for manholes shall be cast integrally with the bottom manhole section. Joint contact surfaces shall be formed with machined castings; they shall be exactly parallel with a 2 degree slope and nominal 1/16 inch clearance with the

tongue equipped with a proper recess for the installation of an O-ring rubber gasket, conforming to ASTM C443, Joints for circular Concrete sewer and Culvert pipe using Rubber gasket, or RAM-NEK premolded Plastic Joint Sealer with joints Manhole adjustment materials shall be sound, hard, and pre-primed. Precast concrete adjustment rings as manufactured by Taylor Precast Co. (or equal) may be utilized in lieu of brick adjustment. Field mixed mortar for brick shall be composed of portland cement Type II, sand and clean water. Mortar shall be one part cement Type II and two parts sand; lime shall not be used. The outside faces of brick masonry shall be plastered with mortar from 1/4" to 3/8" thick. Precast manhole walls shall not be coated unless otherwise noted. Cement grout for manhole bottoms shall be a stiff rich mix of Type II Portland Cement and sharp plaster sand. Calcium chloride may be added (maximum of 2%) to aid in obtaining a faster set. At permanent pump station locations, the first upstream manhole from the station shall be lined with a polyethylene liner as manufactured and installed by Taylor Precast Co., or approved equal.

05.1 CAST IRON MANHOLE FRAMES AND COVERS. Cast iron manhole frames and covers shall be as detailed on drawings. Castings shall meet the requirements of ASTM A48, Specifications for Gray Iron Castings, Class No. 30. or Grade 65-45-12. Ductile Iron meeting the requirements of ASTM A536. Standard Specification for Ductile Iron Castings. In either case, manhole frame and cover shall be designed to withstand an HS20-44 loading defined in the AASHTO Specifications. Frames and covers shall be machined or ground at touching surfaces so as to seat firmly and prevent crocking

05.2 FLEXIBLE MANHOLE CONNECTOR. All connections between sewer pipe and pre-cast concrete manholes shall be accomplished by a Flexible Connector, "Kor-N-Seal", as manufactured by National Pollution Control Systems, Inc., or approved equa

05.3 FLOW CHANNELS, Flow channels in manhole base shall be formed of D.O.T. Class | Type II cement grout with brick and trowel to a smooth surface finish. Grout surface shall be 1" min. thickness over brick or rubble. While the manholes are under construction, cut off pipes at inside face of the manhole and construct the invert to the

shape and sizes of pipe indicated All inverts shall provide a constant gradient from influent pipe to effluent pipe through manhole. Changes in direction of the sewer and entering branch or branches shall be laid out in smooth curves of the longest possible radius which is tangent to the center lines of adjoining pipelines.

05.4 DROP INLETS. Where shown on the drawings, drop inlets to the manholes shall be constructed as shown on the drawings and specified herein

06. POLYVINYL CHLORIDE PIPE. Polyvinyl Chloride Sewer Pipe shall conform to the requirements of ASTM D-3034, SDR 26. The PVC compound conforming to ASTM D-1784. Pipe shall be early marked in 5 ft. intervals or less, indicating Manufacturers name, nominal size, cell classification and legend. Joints shall be push-on rubber gasketed, conforming to ASTM 3212. Pipe and fittings shall be installed in accordance with recommended practice ASTM D-2321. All pipe and sewer fittings shall be SDR-26 heavy wall, installed up to a depth of 13' from finish grade to invert of pipe. Maximum depth of gravity sewer without prior approval shall be 13 feet. Sewer pipe and fittings over 13' in depth shall be DR-18 P.V.C. Design of sewer installation over 13' in depth shall have CCUA's prior approval.

07. PIPE BETWEEN MANHOLES. All piping installed between manholes shall be the same material and class No dissimilar pipe material will be allowed anywhere within a single run of pipe.

08. SANITARY SERVICE LATERALS. Sanitary service laterals shall be Polyvinyl Chloride Pipe conforming to the requirements of ASTM D-3034, SDR 26 where cover over top of pipe is 36 inches or greater. Where cover over top of pipe is less than 36 inches, specific construction conditions shall be directed by the Clay County Utility Authority. All sanitary service laterals shall be a minimum of 4'-0" deep at the right-of-way line to top of pipe. Any sanitary service lateral which must be more than 6'-0" deep shall not be installed prior to obtaining permission from the CCUA field inspector or CCUA Engineering Department. All sanitary service laterals shall be 6-inch diameter from the main to the right-of-way line with a minimum slope of 0.60% (0.6 feet per hundred feet). In single family residential developments, services shall reduce to 4" in size at the property line utilizing the proper fittings for the type of pipe specified. All sewer service laterals over 13' deep shall be constructed of DR-18 PVC pipe, and DR-18 pipe fittings, per CCUA standard sewer system details.

09. FORCE MAINS. Force mains shall be C900 DR-18 PVC and conform to the requirements of ASTM D-1784, D-2241, D-3139 and F-477. Pipe shall be color coded and marked "FORCE MAIN" on at least two sides and at every 12" along the barrel of the pipe. Ductile iron pipe for force main service shall be polylined. Ductile iron pipe is not to be used without prior approval of the Clay County Utility Authority. Fittings shall be C110 gray iron and shall be polylined. Force mains less than 3" shall be SCH80 PVC. All force mains shall be installed with tracer wire pe CCUA standard location wire details. All force mains should be installed 5 feet to top of pipe, unless approved by

09.1 LIFT STATION VALVES. See CCUA Approved Materials Manual for acceptable plug valves and check

09.2 FORCE MAIN VALVE. Gate valve, resilient seated, same as specified in Water Distribution System Specifications Section 11 at right. Except valve bodies shall be gray iron. Valve box shall have the word "SEWER" cast into the cover.

09.3 FORCE MAIN JOINT RESTRAINT. All fittings shall be properly and adequately restrained against lateral movement at all force main tees, crosses, valves and bends. See CCUA Approved Materials Manual for acceptable restrainers (SEE RESTRAINED JOINT SCHEDULE)

09.4 FORCE MAIN PIPE FLUSHING. All force main piping shall be flushed with clean water utilizing full pipe diameter. In cases where the water supply is inadequate to flush the full pipe diameter, flushing shall occur to the extent of the water supply that is available

10. INSTALLATION. All sewer lines, manholes, and appurtenances shall be constructed to the dimensions and elevations indicated on the drawings. Trenches shall be excavated to a width approximately twelve inches greater than the outside diameter of the pipe. Machine excavation shall be to a depth one-fourth pipe diameter above proposed pipe grade; the remaining depth shall be hand excavated and shaped to give full support to the lower one-fourth of each pipe.

Each section of pipe shall be inspected for defects prior to being lowered into the trench. The inside of each bell and the outside of each spigot shall be thoroughly cleaned of all foreign matter prior to making the joint. All sewer lines shall be constructed with the spigot ends pointing in the direction of the flow. Both the bell and the spigot of each joint shall be lubricated with the lubricant recommended by the pipe Manufacturer. All sewer lines shall be cleaned of foreign matter as construction progresses, and shall be in a clean condition upon completion of construction operations. Pipe materials shall remain the same on runs between manholes and/or other structures.

11. INSPECTIONS. Each section of the completed sewer system shall be inspected for proper alignment. Any section of the sewer system which does not display true, concentric alignment shall be reinstalled at no additional expense to the Owner. A written log of inspection shall be kept indicating location of test, potential problems in sewer, dips and depth of water, service locations, and other irregularities in the pipe lines. An image in DVD format shall be made of the television inspection and submitted to the Engineer and the Clay County Utility Authority. Copies of compaction density test reports from a licensed testing agency shall be made available to CCUA if requested.

11.1 TELEVISION INSPECTIONS Television inspection will be required on all new gravity sewers constructed. This service shall be provided by the Contractor as a part of this Contract. The newly constructed sewers shall be televised in the presence of the Inspector of the Clay County Utility Authority. A full report as to the condition of pipe, type, depth, location of services, length, joint and distance between manholes, etc. shall be furnished to the CCUA inspector prior to the final acceptance of the system. Any pipe found to be cracked, leaking or otherwise defective shall be removed and replaced with new pipe at no additional costs to the Owner. Deflection testing with 5% mandrel also required. Any section not passing the mandrel test shall be corrected. Sewer mains shall be televised after curb and lime rock are in place but prior to paving. Curb and limerock shall be installed, finish graded prior to televising the gravity sewer. Limerock priming and paving operations shall not take place until the CCUA inspector has reviewed the television recorded DVD and approves the gravity sewer system. This will be strictly enforced. All gravity sewers must be flushed no sooner than 4 hours prior to any television inspection. Force main lines shall be pressure tested and approved prior to paving, but not prior to subgrade mixing operation and limerock installation, finish graded and compacted. Sewer services shall be viewed by a camera capable of viewing

into service lateral connections. Adequate water must be placed within the upstream manhole to flow through the downstream manhole before inspecting with the camera. All work must be accomplished in the presence of the CCUA inspector. Contractor shall provide CCUA with a 48 hr. notice of intent to televise and inspect sewer main. CCUA inspector shall report to job site at the time specified by Contractor at the time of the call-in. CCUA inspectors will wait at the job site no more than one hour for the televising to begin before leaving the job site. Contractor shall reschedule televising giving CCUA 48 hrs. notice if the above occurs. Inspections start at manhole 11.2 INFILTRATION TEST After completion, the sewers or sections thereof, shall be tested

and gauged for infiltration. To check the amount of infiltration, the Contractor, at no added compensation over the contract price for the sewers, shall furnish, and install and maintain a V-notch sharp crested weir in a wood frame on the main sewers as directed by the Engineer. Maximum allowable infiltration shall be 50 gallons per mile, per inch of dia. of sewer per 24 hour day, at any time.

11.3 EXFILTRATION TEST In areas where ground water is not encountered in sewer construction, or it is desired to run exfiltration tests, the Contractor shall furnish and install all necessary materials, equipments, shall supply water, etc., and shall run exfiltration tests to determine acceptance of the sewer. The maximum allowable exfiltration shall be 50 gallons per mile per inch of diameter of sewer per 24 hour day at any time based on two foot imum internal head

11.4. A "dip" is defined as any water holding depth which is equal or greater than the minimum depth as listed below. There shall not be any more than 1 "dip" per 135 linear feet of sewer pipe installed. The defective pipe sections, or those dip/sections over the allowable limit, shall be removed and replaced (at no cost to CCUA). Each run of pipe, between two manholes, shall be evaluated independently for compliance. Any "dip" which is greater than the "maximum" "dip" depth listed below are not acceptable and shall be removed and replace at no cost to CCUA. Regardless of the number of "dips" in the line section, if, in the option of the CCUA inspector, the number and/or location of the "dips" is believed to create an unacceptable operating condition, then the defective pipe section(s) shall be removed and replaced at no cost to CCUA. Any deviation from these "dip" limitation must be approved by the CCUA Service Availability Manager.

	WATER HOLDING DEPTH (INCHES)	
PIPE SIZE	MINIMUM	
8-10 INCH	.50	
12-15 INCH	.75	
18-21 INCH	1.00	
24 INCH AND GREATER	1.25	

Demarcation box shall be used as an isolation point between the wet well and the motor control center panel. All wiring between the motor control center and wet well shall be interconnected at this point. Install malleable seal off conduits at the demarcation box end, in conduits between the demarcation box and the MCC. All internal e including terminal strips, blocks and backplane shall be stainless steel.

12.1 Demarcation box shall be 24" wide, 24" tall and 12" deep nema 4x enclosure manufactured of 316 stainless steel. Enclosure shall have a hinged cover and removable backplane for terminal blocks. The box shall be mounted so that the cover faces away from the wet well.

12.2 Terminal blocks will need to be mounted for each wire passing through the demarcation box. Terminal strips will be rated at 600 volts, sized according to the load served. Antioxidant compound shall be used on all terminal connections, (nolox or equal). Nameplates as specified on the electrical standards sheet shall be provided at the terminal blocks to identify each circuit.

12.3 All wires including spares shall be identified with heat shrink labels. All control wires shall have spade lugs. Wires shall be 600 volt rated thhn/mtw/thhw.

GENERAL NOTES

1. AS-BUILT DRAWINGS AND ASSOCIATED COSTS. All cost records pertaining to the cost of water, reclaim and sewer facilities donated to the utility shall be provided to the Utility by applicant. Prior to acceptance of any extension to the Utility's system that is completed by a licensed underground utility Contractor, the Utility will require that the applicant's Contractor provide the Utility, to retain for its permanent records, all field as-built data which shall be provided in accordance with the Utility's `As-built Specifications Standards Manual`, which can obtained from the Utility's website (www.clayutility.org)

2. CONSTRUCTION WARRANTY AND WARRANTY SECURITY PERIOD. Developer's Contractor shall warranty 8. HYDROSTATIC TESTING. After all pressure pipes (water mains, services, and force mains) are laid, the joints Utility against defects in material and workmanship for the portion of the onsite system to be owned by the Utility for two (2) years. Developer shall secure from its Contractor a written and fully assignable warranty that the system installed will be and remain free from all defects, latent or otherwise, with respect to workmanship. materials, installation, and accuracy of his as-built drawings in accordance with the Utility approved plans and specifications for a period of two years from the date of the system acceptance by the Utility and immediately assign the same and the right to enforce the same to Utility on or before the date of the Utility's acceptance of the system for

3. CLEAN-UP. All surplus materials of construction shall be removed from the site and disposed of by the Contractor as part of his contract with the Owner.

Ownership and maintenance

4. RESTORATION. New Sanitary Sewer and Water Main Construction in earthen areas shall be seeded and mulched in accordance with Section 570 of Standard Specifications of the Florida Dept. of Transportation (latest edition). In locations where existing grassed (sodded) areas are disturbed, sod shall be replaced to preconstruction

condition and to limits of construction or where directed by the engineer. 5. PERMITS. The Contractor shall be responsible for obtaining and providing records of all permits required for performing work under this contract, except that the FDEP permits, and wetland permits, if required, will be secured by the Owner or Developer.

6. PIPE BEDDING. In the event unsuitable or unstable bedding material is encountered at or below the limits of the excavation required for installation, such material shall be removed and replaced with suitable compacted backfill material specified by the Design Engineer and approved by the CCUA so as to provide a stable trench bedding surface suitable for proper pipe installation

6.1. PIPE BEDDING (ROCK BEDDING MATERIAL) Rock material used for pipe bedding shall be #57 stone or crushed concrete (crush-crete) in a #57 size. Rock bedding material shall be completely wrapped in a heavy filter fabric material, overlapped a minimum of one foot. Rock bedding shall be installed to the correct grade and compacted to a density which will prevent any settlement, either by mechanical tamping equipment or by compressing the rock using the bottom of the backhoe bucket. The compaction shall be approved by CCUA inspector. The Contractor shall be required to have submittal approved by Design Engineer and CCUA prior to use of such rock bedding material.

7. DEWATERING. The Contractor shall at all times during construction provide ample means and equipment with which to promptly remove and dispose of all water entering the trench and structure excavations and shall keep said excavations acceptably dry until the piping and / or structures to be built therein are completed. All water pumped or drained from the work area shall be disposed of in a manner as to not damage sewer, water, electrical or any other piping, structures or property. No pipe shall be laid in water and no water shall be allowed to rise above the bottom of any pipe while it is being jointed, except as may be approved in writing by the CCUA

completed, and the trench backfilled, the newly laid pipe and appurtenances shall be subjected to a hydrostatic test of 150 p.s.i. for a period of at least two hours. The engineer and the Clay County Utility Authority must be notified 48 hours before a test is to be performed. Test shall be as set forth in AWWA standard C600. Any leaks detected shall be corrected and the section of pipeline retested. The two hour test period shall begin when all joints have been determined to be water tight. Leakage shall be limited to that allowance set forth in Section 4 of AWWA Standard C600-87. Hydrostatic and leakage test and blow-down (zeroing of gage) must occur before sampling for

bacteriological test. The maximum allowable pressure loss is 5 p.s.i. regardless of the length of pipe. 9. REPORTS. Reports of hydrostatic and leakage tests and sterilization of the newly completed systems shall be submitted to the Clay County Utility Authority prior to requesting acceptance of the system.

10. DENSITY TESTING. In-place density tests are required at intervals not to exceed 150' along pipelines for every other lift. A minimum of one test between manholes is required for every other lift regardless of the distance between sanitary sewer manholes.

1. CONCRETE. All Portland Cement concrete shall be of Type II Portland Cement, 2,500 p.s.i. minimum, ready mixed. All concrete shall be placed before the initial set has taken place. Stale or retempered concrete shall not be

12. GATE VALVES AND BOXES. Gate valves shall have a 2" operating nut and open left. Gate valves shall have joints suitable for the type main on which installed. Valves 2" and 3" shall be iron body, bronze fitted. Valves 4" and larger shall be iron body, bronze fitted with resilient seat. The word "WATER" on water boxes and "SEWER" on force main boxes shall be cast in the covers.

1.00

13. SEPARATION OF WATER AND SEWER MAINS. Horizontal and vertical separation between potable water system mains and or appurtenances and sanitary or storm sewers, wastewater or storm water force mains, and reclaimed water mains shall be in accordance with Rule 62-555.314 FAC. a. New or relocated underground water mains shall be laid to provide a horizontal distance of at least three feet between the outside of the water main and the outside of any existing or proposed storm sewer, storm water force main, reclaimed water main regulated under Part III of Chapter 62-610, F.A.C, or proposed vacuum-type sanitary

b. New or relocated, underground water mains shall be laid to provide a horizontal distance of at least six feet, and preferably ten feet, between the outside of the water main and the outside of any existing or proposed gravity- or pressure-type sanitary sewer, wastewater force main, or pipeline conveying reclaimed water not regulated under Part III of Chapter 62-610, F.A.C. The minimum horizontal separation distance between water mains and gravity-type sanitary sewers shall be reduced to three feet where the bottom of the water main is laid at least six

inches above the top of the sewer. c. New or relocated underground water mains crossing any existing or proposed gravity- or vacuum-type sanitar sewer or storm sewer shall be laid so the outside of the water main is at least six inches, and preferably 12 inches above, or at least 12 inches below, the outside of the other pipeline. However, it is preferable to lay the water main above the other pipeline (see Crossing "A" as shown on detail sheet WAT-02). d. New or relocated underground water mains crossing any existing or proposed pressure-type sanitary sewer.

wastewater or storm water force main, or pipeline conveying reclaimed water shall be laid so the outside of the water main is at least 12 inches above or below the outside of the other pipeline. However, it is preferable to lay the water main above the other pipeline. e. At the utility crossings described in paragraphs (c) and (d) above, one full length of water main pipe shall be

centered above or below the other pipeline so the water main joints will be as far as possible from the other pipeline. Alternatively, at such crossings, the pipes shall be arranged so that all water main joints are at least three feet from all joints in vacuum-type sanitary sewers, storm sewers, storm water force mains, or pipelines conveying reclaimed water regulated under Part III of Chapter 62-610, F.A.C., and at least six feet from all joints in gravity- or pressure-type sanitary sewers, wastewater force mains, or pipelines conveying reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.

14. NEW CONNECTION TO EXISTING MAIN. New connection to existing main in service shall be accomplished by the "wet tap" method utilizing full circle stainless steel tapping sleeve and mechanical joint tapping valve. Tapping sleeve shall be rated at 200 p.s.i., non-shock working pressure conforming to AWWA Standard C110, latest revision. Stainless steel tapping sleeves shall be from those listed in CCUA approved material manual. Tapping valve shall be mechanical joint on one end and standard flanged joint on other end. Valve shall conform to Section 09.2 of these specifications.

15 JOBSITE SAFETY While on the job site the Contractor shall at all times observe all Federal. State and local safety rules, regulations and laws. This includes, but is not limited to, confined spaces and excavation protection systems as per O.S.H.A. standards.

16. CCUA SHOP DRAWING AND SUBMITTAL PROCESS. A signed acknowledgment by the Contractor and the Material Supplier, on the "Shop Drawings and CCUA's Approved Materials List Form", that all materials will be in accordance with CCUA's Specifications, CCUA's Details and CCUA's Approved Materials Manual, is the only submittal CCUA will require for each item of materials with the following exception: any alternate materials requested by the Engineer; any materials not listed in the CCUA Materials Manual; and materials associated with pumping stations and plant installations. Those exceptions shall have an individual shop drawing submitted for CCUA's review and approval prior to any installation of said materials. This is CCUA's procedure and it does not preclude the Design Engineer from requiring additional submittals and shop drawings as he deems necessary for

17. PUMP STATIONS (TEMPORARY OR PERMANENT). All pump stations shall be constructed in accordance with CCUA standards, rules and regulations and be approved by CCUA All work and materials shall meet the requirements of CCUA Standard Pump Station Details and Specifications or the plans, details and specifications for that specific pump station. A driveway shall be provided from the street (roadway) to within 2 feet of the pump station wetwell, minimum 10 feet wide x 6 inches thick 3,500 p.s.i. concrete. Submersible pump stations shall be fenced completely about the perimeter of the pump station site (location of the pump station site as noted on the plans), including gates and all other items required to make a completely fenced installation. The entire pump station site within the fenced area shall be covered with #57 stone, 6 inch thick minimum, placed over

18. Information shown on the Drawings as to the location of existing utilities has been prepared from the most reliable data available to the Engineer. The Contractor shall be responsible for requesting underground utility locates and shall assist the utility companies by every means possible to determine said locations and the locations of recent additions to the systems not shown. Extreme caution shall be exercised to eliminate any possibility of any damage to utilities resulting from Contractor's activities. The locations of all overhead utilities shall also be verified by the Contractor. The Engineer shall be notified of any conflict that may occur. The Contractor shall be responsible for determining which poles will need shoring during excavation and shall provide such shoring and support as required.

19. CCUA details and specifications (latest available copy) shall be included in all plans submitted for work within the CCUA utility system. No person shall modify, change, omit, or replace any portion of those details and specifications without the express written consent of CCUA. In any instance where the Design Engineer has included his written specifications or details in the plans then the more stringent of the two shall govern.

20. All materials to be used for any project within CCUA'S utility system shall conform to those materials listed in the CCUA approved material manual in effect at the time final plans for that project are approved by CCUA

Under no circumstance shall any trees be planted within a CCUA utility easement without: a. CCUA approving landscape and irrigation plans b. CCUA being notified prior to the planting of trees and giving approval. c. CCUA inspecting the installation of root barrier material (required at all trees which are closer than 7.5' to any CCUA utility line) as shown in CCUA approved material manual and CCUA roadway cross section details, whether or not shown on the plans.

22. At all Jack & Bore locations a CCUA inspector shall inspect the casing spacers to verify they are the correct size and have been installed correctly on the pipe prior to the pipe being installed into the pipe casing. The pipe casing shall be clean and free of all dirt, and shall be cleaned with a Vac-Con if necessary. A CCUA inspector shall be present at all time during this work. Contractor shall be responsible to establish the correct elevation of the Jack and Bore carrier pipe and pipe casing. Contractor shall compact the bottom of the excavation to assure the density of earth is adequate to prevent any settlement of equipment used to perform the Jack and Bore operation. Contractor shall, at all Jack and Bore pits, provide and utilize the necessary de-watering equipment to keep the excavation dry and free from water in accordance with Paragraph 7 of the General Notes. Contractor shall, at all Jack and Bore excavations, provide a rock bed of #57 stone (a minimum of 8-inches thick) to support the track and rail system of the Jack and Bore equipment. This shall be inspected by a CCUA inspector and approved by the nspector prior to beginning the placement of the pipe casing. Contractor shall replace, at his/her expense, any Jack and Bore installed which CCUA refuses to accept for Ownership and which does not meet the requirements of CCUA, due to incorrect grading, damaged or faulty materials, poor workmanship, or anything that CCUA deems as inadequate to perform its intended use.

13. PIPE AND PIPE JOINTING FOR FUSED & HDPE PIPE: a. Heat Fusion Jointing:

Joints between plain end pipes and pipe fittings shall be made by butt fusion when possible. Electro fusion welding may also be used to complete when the location is not accessible to butt fusion welding equipment The on-site welder making the joints (butt fusion or electro fusion) shall have received specific training from the Manufacturer of the fittings and/or pipe being welded and shall have written proof of proper training/certification from the associated Manufacturers. Only certified welders who have written training certifications from the fitting and/or pipe Manufacturer will be allowed to perform this work. To weld a fitting or electro fusion coupling in place, the on-site welder (employee) must be trained and certified by the fitting Manufacturer. To butt weld pipe, the on-site welder (employee) must be trained and certified by the pipe Manufacturer. The fusion work shall be accomplished (welding and cool-down/closing times) in accordance with the fitting and pipe Manufacturers' recommendations, at a minimum. CCUA reserves the right to require the Contractor to remove from or not permit an employee to work on the welding or fusing portion of the work if in the opinion of CCUA that person is not properly trained or cannot perform the welding or fusion process in high quality and professional workmanship manner

b. External and internal beads shall only be removed when required by CCUA. The internal bead shall be removed from all fused joints of a pipe that is to be used as a gravity sewer line, or as a sewer force main line or as a sleeve or host pipe which will have another pipe installed inside it. The external bead shall be removed from all fused joints of a pipe which will be installed inside of a sleeve or host pipe and the external bead shall be removed from all fused joints of a pipe to be pulled through a reamed Horizontal Directional Drill hole which may have a possible catch point such as extreme rocky ground conditions or other hazards. The Contractor shall be required to follow the requirements and recommendations of the pipe Manufacturer and Clay County Utility Authority.

OUTLINE SPECIFICATIONS FOR CONSTRUCTION OF WATER DISTRIBUTION SYSTEM

01. INTENTION. It is the declared and acknowledged intention to secure a new water distribution system, complete, in accordance with the plans and specifications, and contract documents. All new work shall be in accordance with Clay County Utility Authority Specifications and Details and Approved Materials Manual and Clay County Engineering Department Details and Specifications and any other Government Regulatory Agency. All work shall conform to the above whether or not specifically called out or noted on the plans.

02. GENERAL. All materials shall be in conformance to National Sanitation Foundation (NSF) 61 and those listed in the CCUA Approved Materials Manual. Materials shall be warranted by the Contractor as to materials, workmanship and accuracy of As-built drawings for a period of two years from the date of completion of the work or beneficial use of the facilities. Workmanship shall be of good quality; i.e., mains shall be laid in a uniform alignment, fittings shall be properly restrained, trenches shall be properly excavated and backfilled, fire hydrants and valve boxes shall be adjusted to finished grade. All water mains shall be installed with tracer wire per CCUA standard location wire details.

02.1 Contractor LICENSE AND APPROVAL. Utility reserves the right to approve or deny approval of Contractor prior to construction of any on-site or off-site utility facilities. Contractor must hold a State Of Florida Underground Utility Contractors license, that named contracting company being the one doing the work on project, and demonstrate acceptable experience in the field of utility construction

03. SURVEYS. The Utility Contractor shall provide all surveys necessary for the layout and construction of the work of his contract.

04. EARTHWORK. Earthwork shall include all excavation, fill and backfill (hand/machine), compaction and rough grading of materials encountered. No unsuitable materials clay, muck, or peat removed from pipe trenches are to be used for backfill. All fill or backfill shall be either sand or sandy clay, free of roots, trash or other debris. All backfill alongside of and to a height twenty-four inches above all pipe shall be free of clay or organic material, compacted by either hand or machine operation carefully to 98%. All other backfill shall be compacted by either hand or machine operation carefully to 95% (outside of paving), 98% (under paving) of its optimum moisture content as determined by ASTM D698, latest. Copies of compaction density test reports from a licensed testing agency shall be made available to CCUA if requested.

05. JOINT RESTRAINT. All fittings shall be properly and adequately restrained against lateral movement at all water main tees, crosses, valves, bends and fire hydrants. Restrainers shall be Uni-Flange Series 1300, 1350, 1390 or approved equal installed per Manufacturer's recommendations and Clay County Utility Authority Details and Specifications (SEE RESTRAINED JOINT SCHEDULE). See CCUA Approved Materials Manual for acceptable restraints.

06. DUCTILE IRON PIPE. Ductile iron pipe shall conform to ANSI Specification A21.50 (AWWA C150) latest Thickness Design of Ductile Iron Pipe", Table 50.5, laying condition Type 2, internal operating pressure of 250 p.s.i. for an 8-foot depth of cover, Class 51 minimum and shall be ANSI A21.51 (AWWA C151), latest centrifugally cast pipe. Laying lengths shall be 20 feet or less in length, and shall be clearly marked with pressure rating, thickness, class, height of pipe without lining, length, and Manufacturer. Ductile iron pipe for water service shall be furnished with cement lining per AWWA C110, C115 and C151. The pipe shall have design values of 60,000 p.s.i minimum tensile strength, and 42,000 p.s.i. minimum yield strength. Ductile iron pipe for water or service lines shall be used in any easement, right-of-way, between lots, and any instance where a building foundation or other permanent appurtenance is within 10' of the water main or a service line larger than 3".

07. DUCTILE IRON FITTINGS shall be C153 cement lined and suitable for the type and class of pipe to which connected. Gaskets shall be suitable for potable, domestic water service. Minimum working pressure shall be 150

08. POLYVINYL CHLORIDE PIPE. Polyvinyl chloride pipe for water mains 4 inch through 24 inches in diameter. shall be DR18 (C900) Pressure Class 235 psi PVC 1120: water distribution mains above 24 inches in diameter shall be DR25 (C900) PVC 1120, Pressure Class 165 psi, conforming to ASTM D-1784, D-2241, D-3139 and F-477, latest, or P.V.C. C900, Class 165, DR-25, conforming to ASTM D-1784, Cell Class 12454, ASTM F-477, ASTM D-3139, latest, and shall bear the seal of the National Sanitation Foundation. Pipe shall be color coded and marked "WATER" at every 12" along the barrel of the pipe, with lettering facing up. Couplings shall be rubber gasketed, push-on type conforming to ASTM D-2122. DR-18 shall be used for fire mains.

09. STEEL CASING PIPE. Steel casing pipe shall be of size indicated on the Drawings and shall conform to ASTM A139, with a minimum yield strength of 35,000 p.s.

10. POLYVINYL CHLORIDE (PVC 1120, SCHEDULE 80) PIPE shall conform to the requirements of ASTM D 1785. Fittings shall be suitable for type of installation required. All piping smaller than 4" shall be Schedule 80

11. GATE VALVES AND BOXES. Gate valves shall be non-rising stem type and shall be suitable for a 200 p.s.i. non-shock working pressure. Gate valves shall be mechanical joint, flanged or screwed. Gate valves shall have a 2" operating nut and open left. Gate valves shall have joints suitable for the type of main on which installed. Valves 3" and larger shall be iron body, bronze fitted with resilient seat. Boxes shall be of cast iron construction, 7/32" minimum wall thickness and shall be nontacky tar enamel coated. The word "WATER" shall be cast in the cover Other gate valves smaller than 3" shall be heavy-duty bronze ball valves. See CCUA Approved Materials Manual

12. WATER METER BOXES. Developer shall be responsible for installation of meter boxes on all water services as part of the water main installation. All curb stops shall be adjusted to the proper elevation and shall be accessible for the installation of the water meter. The Contractor shall be required to open all boxes for the Authority's inspector at the final inspection. A treated 6'-6" fence post marker shall be painted blue for identification. Meter boxes shall not be placed in any sidewalk or driveway without the approval of CCUA.

13. CURB STOPS. Curb stops shall be cast bronze, inverted key stop, roundway, with check, lock wing type, for locking in the closed position. See CCUA Approved Materials Manual for acceptable curb stops

14 FIRE HYDRANTS Fire hydrants shall be traffic type 150 pound working pressure AWWA Standard C502 latest revisions, with two 2 1/2" nozzles, one 4 1/2" nozzle and one 5 1/4" main valve. Fire hydrant shall be be compression type with breakable coupling and bolts. Pipe connection shall be mechanical joint. Fire hydrants shall be painted silver, BLP Mobile Paints, Liquid Aluminum, 1151 alkyd weight 56.6% x volume 41.2% VOC 3.76 lb. per gallon with 1 1/2" penta nuts, opening left. See CCUA Approved Materials Manual for acceptable fire hydrants.

15. INSTALLATION. The minimum cover over top of potable water main shall be 36". All water lines and purtenances shall be thoroughly cleaned of all foreign matter before being lowered into the trench and shall be kept clean during laying operations by means of plugs or other approved methods. All pipe shall be checked for defects before being lowered into the trench. Defective pipe shall not be used. Pipe found to be defective after installation, shall be removed and replaced with sound pipe at no additional expense to the Owner. The full length of each section of pipe shall rest solidly upon the pipe bed, with recesses excavated to accommodate the bells an joints. All pipe that has the grade or joint disturbed after laying shall be taken up and reinstalled. The pipe shall not be laid in water or when trench or weather conditions are unsuitable for the work. All joints shall be cleaned of all foreign matter before making the joint. Fittings at bends in the pipe shall be properly restrained with joint restrainers adequately sized to prevent movement and dislocating or blowing off when the line is under pressure. Service

SPECIAL NOTES

laterals shall terminate at the point noted in the details.

- 1. The installation of all pipe regardless of the type or size shall be installed in accordance with the Manufacturer's specifications or recommended criteria for the pipe being installed. No pipe shall be installed with the joints over-assembled or over-homed. The reference mark (home-line) shall not be installed into the bell beyond the Manufacturer's recommendation. The Contractor shall be responsible to mark any pipe cut to length with a reference mark (home-line) placed at the correct location on the pipe according to the type and size pipe being installed. CCUA will not permit any pipe joint to be left in place if the joint is over-homed. It shall be the Contractor's responsibility to obtain the information pertaining to installation of pipe to be installed from the Supplying Manufacturer and to install the pipe accordingly.
- 2. Deflection of all pipe regardless of the type or size shall be installed in accordance with the Manufacturer's specifications or recommended criteria for the pipe being installed. Any pipe which has been installed and does not meet the above listed criteria shall be removed and replaced with new pipe. All costs of removal and reinstallation of said pipe shall be at the Contractor's expense, with no cost to the Owner, and shall meet all CCUA requirement
- 3. Any utility pipe regardless of the type or size which has been abandoned, or taken out of service or out of use for any reason, shall either be removed from the ground for its entire length and disposed of in a legal manner, or shall be grout filled in place for its entire length. A CCUA inspector shall be present and witness the grout filling of the pipe from start to finish of the process. If the abandoned pipe is being removed, a CCUA inspecto shall be present or be able to view the open ditch where pipe was removed from prior to backfilling that ditch. 4. Disinfection Notes
- a. Only CCUA staff is authorized to change or adjust existing CCUA valves. b. The General Superintendent of the Distribution and Collection System must be informed of any changes to existing CCUA valves. c. The scheduling of the disinfection process for new developments installing water mains must be coordinated with CCUA at least seven (7) days in advance.
- d. CCUA inspectors must be present to observe and monitor the disinfection process. 5. CLOSE OUT/COMPLETION. Minimum items required for Close Out / Completion for submittal to the Clay
- County Utility Authority will include: a. Construction Warranty from Developer in the form of a Bond, Letter of Credit or Cashier's Check for a two-year b. Warranty Certificate for a two-year warranty from the Contractor to the Developer and assignment of same to
- the Clay County Utility Authority (CCUA). Developer's Affidavit certifying there is no outstanding debt against utility assets to be deeded to CCUA d. Value of Acceptance Report showing value of assets to be deeded to the CCUA e. Bill of Sale to CCUA
- f. Bacteriological Test(s) Pressure Test(s)
- n. Television Reports and Recorded DVDs i. Density Reports
- Locate Wire test k. Final As-Built Drawings and disks

16. TESTS. After the pipe is laid, the joints completed, and the trench backfilled, the newly laid pipe and appurtenances shall be subjected to a Hydrostatic and Leakage test of 150 pounds per square inch for a period of at least two hours. During this period, all joints shall be inspected to determine water tightness of the system. Any leaks detected shall be corrected, tests shall be in accordance with the CCUA's requirements and specifications. Water main lines shall be pressure tested and approved prior to paving, but not prior to subgrade mixing operation and limerock installation, finish graded and compacted. If CCUA inspector detects the water main has been damaged during priming or paving, he shall require the Contractor to repair the water main and retest the water

7. STERILIZATION. After completion of construction and testing, the water system shall be sterilized with chlorine in accordance with AWWA Standard C651 latest, and State of Florida Department of Environmenta Protection requirements before acceptance for domestic operation. The amount of chlorine applied shall be sufficient to provide a dosage of 50 parts per million or more, for a period of at least 24 hours. A CCUA inspector must be present for the below referenced sterilization procedures. After completion of sterilization procedures, the system shall be flushed using chlorinated water from a domestic water source having a chlorine residual of at least part per million. The Contractor shall obtain all bacteriological clearances as required by the Florida Department of Environmental Protection. After bacteriological clearances, the pressure in the main shall not drop below 20 p.s. Clearance report to be submitted to the Engineer. The Contractor should be aware that there is a timing maximum elated to bacteriological clearance of the main, completion of as-built drawings and Engineer/CCUA completion of Certificate of Completion. In any project where the bacteriological clearances are greater than 30 days old at the time of submittal of Certificate of Completion to FDEP or CCUA, the Contractor may be required to pull more amples and obtain more bacteriological clearances. Prior to introducing the chlorine solution, the lines shall be thoroughly flushed with clean water utilizing full pipe diameter. In cases where the water supply is inadequate to lush the full pipe diameter, flushing shall occur to the extent of the water supply that is available. Dechlorination of flushing water may be required to be in compliance with the State of Florida Surface Water Quality Standards (F.A.C. 63-302.530). Dechlorination is necessary if the flushing of highly chlorinated water is to be discharged directly to a surface water or to a storm water system. If the water can be sheet flowed over a large area or discharged to a holding pond, dechlorination may be avoided. See note number 4 of Special Notes below.

18. BACTERIOLOGICAL SAMPLING. Contractor shall ensure the project construction is completely finished prior to any bacteriological sampling and testing.

19. FIRE LINES/MAINS. All fire lines or mains connecting to Clay County Utility Authority owned potable water main shall be installed by a State of Florida Licensed Fire Installation Contractor, and shall meet all requirements of the local Authority. State Fire Marshal, County Fire Marshal, and the National Fire Protection Association, Work performed must meet all requirements of NFPA 24, Standard for the Installation of Private Fire Service Mains and heir Appurtenances

19.1 The Fire Marshal shall have the right to deny acceptance or use of any fire line, installed and connected to a Clay County Utility Authority owned and maintained water main until such time that the Contractor installing the fire line can produce proof to the Fire Marshal that all paperwork, fees due, or close out documents have been atisfactorily prepared and approved by Clay County Utility Authority.

20. POLYETHYLENE TUBING SERVICE LINES AND MAINS (2 INCH AND SMALLER): Tubing shall be manufactured of PE 4710, High Density Polyethylene (HDPE), in accordance with AWWA C901, ASTM D1248, ASTM D2239, ASTM D3737 and ASTM D3350. The tubing shall have a minimum working pressure of 250 psi. Polyethylene tubing shall be copper tube size SDR-9 and shall be colored blue. HDPE pipe shall have ultraviolet (UV) inhibitors for protection against direct sunlight for 1 year. Inserts for polyethylene tubing may be utilized, at Contractors options, and, if used, shall be 316 stainless steel. The use of no-lead brass couplings, tees and "Y" ittings are acceptable on poly service tubing, if not located under a roadway. Tubing shall be approved for use with potable water by the National Sanitation Foundation (NSF-14) and shall be continuously marked at intervals of no more than four feet with the following: Nominal size

NSF seal Manufacturer's name or trademark Standard dimension ratio ASTM specification

Pressure rating

FINAL INSPECTION PROCEDURES

PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING:

- 1. The sewer line T.V. report, and recorded DVD 2. All manhole rings and covers have to be adjusted to finish grade.
- The pressure test and bacteriological clearance analysis repor 4. Water services must be lowered and meter boxes installed, valve boxes must be set on all gate valves.

 Locate Wire test. 6. Not less than 10 business days Prior to Final Inspection, Contractor shall submit as-built drawings showing at least the

a. Location of valves, mains, services, manholes and locate wire boxes.

b. Elevation of sewer lines in the manhole, and stub-outs. 7. As-built drawings shall have been updated to accommodate the Clay County Utility Authority's comments and the final elevation of the manhole tops must be included (shall comply to the guidance set forth in Utility's As-built Specifications

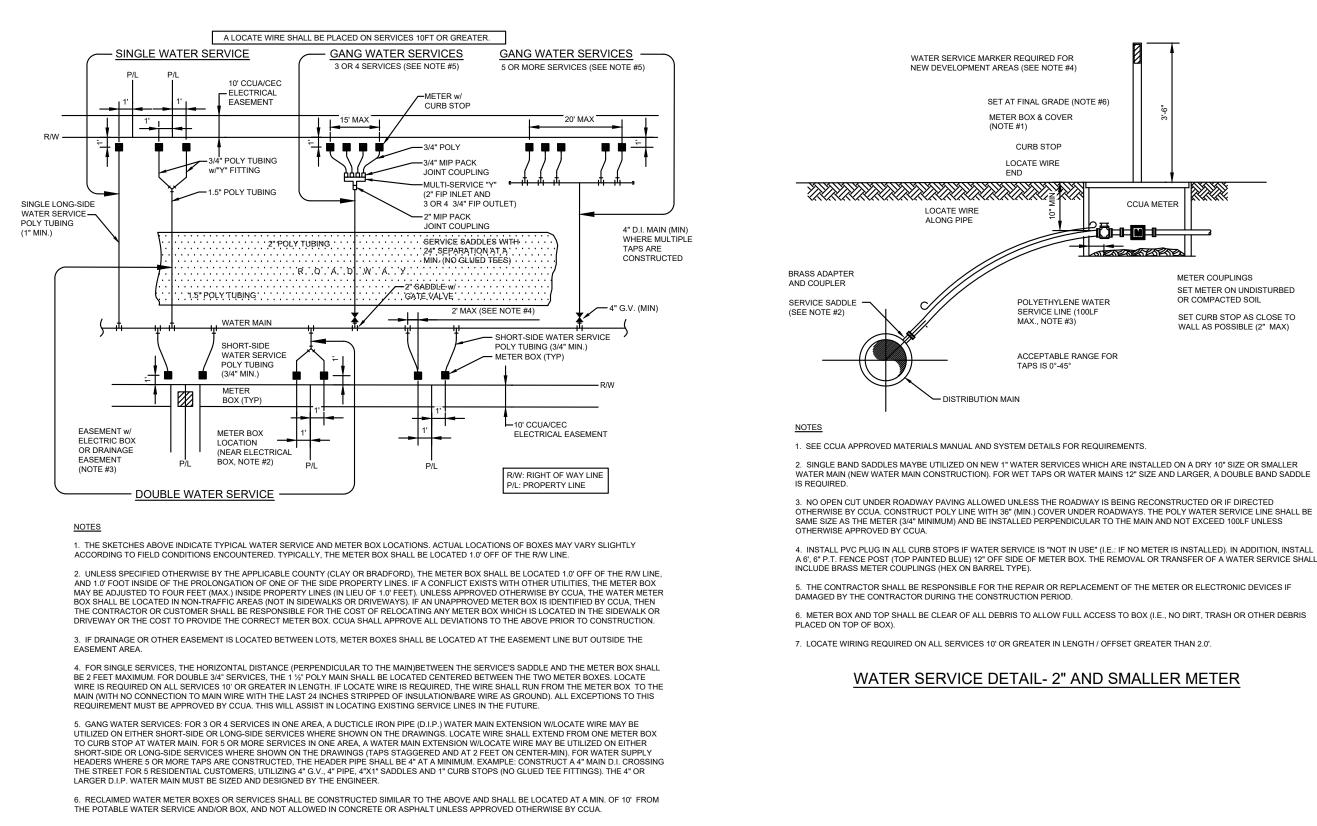
- standards Manual, which can be obtained from the Utility's website www.clayutility.org). 8. The Engineer of Record certification to FDEP. This can be done with completed as-built
- 9. As-builts, must be accepted and approved by the Clay County Utility Authority. 10. All valves, locate wire boxes, sewer, water and reclaimed services shall be scribed in curb and painted the correct color.
- 11. All services and valves to be plainly marked with a treated fence post, and electronic locate marker on all sewer lateral and 12. Pump station start-up report with draw down data for each pump and with both pumps in operation. All electrical components
- to be completely installed and in proper working conditio

PRIOR TO FINAL ACCEPTANCE FOR OWNERSHIP, THE FOLLOWING MUST BE COMPLETED:

1. A preliminary inspection must be coordinated by the underground utility Contractor and held a minimum of fifteen (15) working days prior to the final inspection/start-up. The preliminary inspection will compare the approved design drawings to the actual site installation, noting any deficiencies.

- 2. The following must be represented at the preliminary and final inspection: a. The Clay County Utility Authority's inspection and distribution and collection departments b. The project's Developer and/or general Contractor c. The Underground Utility Contractor
- d. All subcontractors associated with the lift station (electrical, pump Manufacturer, control panel Manufacturer, etc.)
- 3. All manhole rings and covers have to be adjusted to finish grade. Water services must be lowered and meter boxes installed, valve boxes must be set on all gate valves.
- As-built drawings shall have been updated to accommodate the Clay County Utility Authority's comments and the final elevation of the manhole tops must be included (shall comply to the guidance set forth in utility's `as-built
- specifications standards manual', which can be obtained from the utility's web site (www.clayutility.org). All valves, locate wire boxes, sewer, water and reclaimed services shall be scribed in curb and painted the correct color As-builts must be accepted by the Clay County Utility Authority.

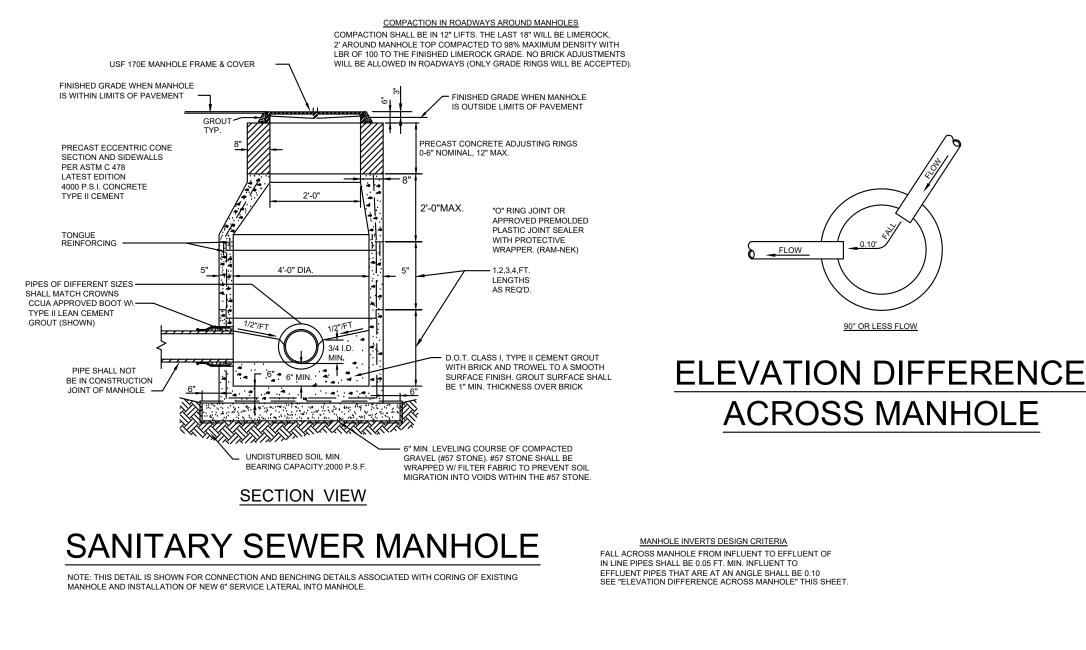
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30	/E ER	2	UC	H, P.				9995 GATE PARKWAY N, SUITE 200	PREPARED FOR
1	R Al	/14/2 NT CB N//		E #8				JACKSONVILLE, FLORIDA USA 32246 PHONE 904 730 9360 VWWW HALEE COM	
		D S	N	31393				FL CA 33380 FL LC 26000645	
				3					



POLYETHYLENE WATER SERVICE DETAILS

(NTS)

CLAY COUNTY UTILITY AUTHORITY STANDARD DETAILS WATER



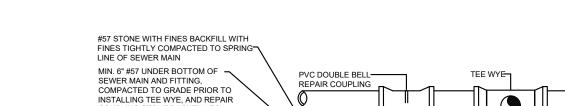
CLAY COUNTY UTILITY AUTHORITY STANDARD DETAILS SEWER

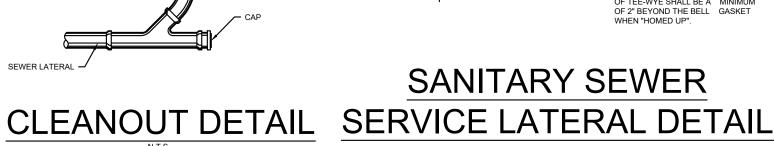
PRIVATE SEWER LATERAL STANDARD DETAILS

CUTTING IN SERVICE LATERAL



TO EXISTING SERVICE LATERAL





COUPLING STONE BACKFILL TO

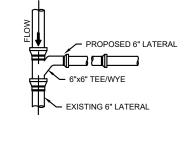
EXTEND MIN. OF 1.5' BEYOND ALL FITTINGS, AND UP TO SPRING LINE OF SEWER MAIN, COVER ALL OF

PRECAST CONCRETE

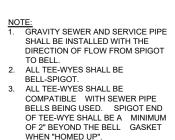
6" - 1/8 BEND

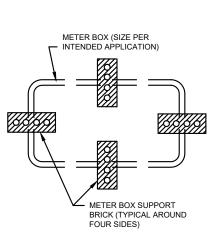
VALVE BOX COLLAR

CLEAN OUT PLUG



SANITARY SEWER





METER BOX SUPPORT DETAIL

LOCATE WIRE

LOCATE WIRE TESTING REQUIREMENTS Installed locate wiring shall be tested by the contractor as part of the final inspection procedure, using a certified tester and approved testing equipment. The Contractor shall notify CCUA at least 48 hours in advance of the testing period. At this time

the Contractor shall tell CCUA the number of locate personnel to be used for the wire testing, so that CCUA can assign an inspector to work with each locate wire tester. If CCUA has not been notified of the correct number of testing personnel to be be present during the testing period, and have the authority to request tester to retest sections if inspector suspects any problems within that section. The contractor shall provide the Certified Tester a copy of the project site drawings (as-builts

used, then the only testers allowed to test the wire shall be those who have a CCUA assigned inspector to work with them. The CCUA inspector shall have the plans on-site, as shall the testing personnel, for the purpose of recording the required preferred). A tone shall be put on the locate wire. The technician shall trace the entire length of the installed wire and spot

test information (ie passed and failed sections) and for as-built preparation. The CCUA field representative or inspector shall paint the location at least at 100-foot intervals along the route. The depth shall be tested at 100-foot intervals and tester shall record the depth of pipe/wire on the report at each 100' interval. The certified tester shall report (show on drawings), where the pipe/wire has less than the allowable minimum cover (36 inches) or more than the maximum allowable cover (60 inches)

unless called for on the plans or requested and approved by CCUA during the installation of said piping. All lateral stub-outs

shall be marked with pain and the depth recorded. A final Locate Wire Report (statement by the certified tester), shall be

submitted to CCUA for review and approval. The report shall include a signed statement from the certified tester which certifies that all installed wire (where shown on the drawing), was successfully (sounded), traced with no open breaks. The report shall also include a copy of the project site drawings which indicate all field notes, breaks found/repaired, depths (if installed outside the acceptable cover limits), and other applicable field remarks by the certified tester. A Certified copy of the

by CCUA.

report and marked-up drawings shall be furnished to CCUA prior to final acceptance of the project or as approved otherwise Definitions

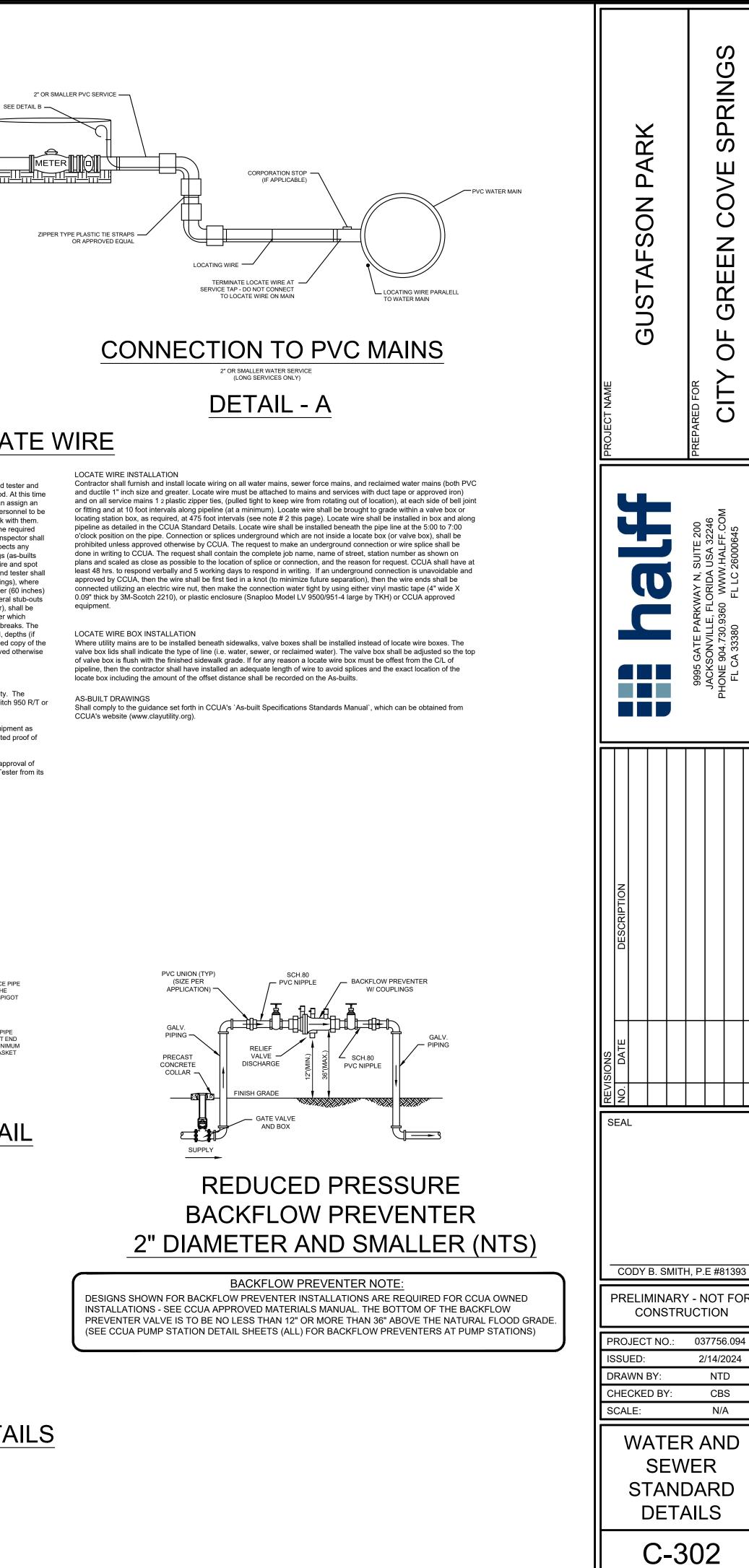
Approved Testing Equipment shall include variable frequency controls, digital depth read-out and tone continuity. The

following is a list of approved equipment - Dynatel (3M)-2273 Cable/Fault Locator, Metrotech 9800XT, Ditch Witch 950 R/T or CCUA pre-approved equal.

Certified Tester - A person or company that has been certified by the Manufacturer of the approved testing equipment as proficient in the use of the equipment has 8 months experience in the use of the equipment including documented proof of

past performance. CCUA Approval: Clay County Utility Authority shall have the authority to approve Certified Tester, or deny the approval of Certified Tester to work on Utility's System. CCUA shall have the authority to remove any previously Certified Tester from its

approved list of Certified Testers as CCUA deems necessary.



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N/A

EROSION AND SEDIMENT CONTROL NOTES 1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF

NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION. 2. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY

EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED. 3. ADDITIONAL PROTECTION - ON-SITE PROTECTION IN ADDITION TO THE

ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.

4. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.

5. WIRE MESH SHALL BE LAID OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2 INCH OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.

6. FDOT NO. 1 COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS INDICATED IN D-903. THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.

7. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.

8. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

9. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY. THE FABRIC SHALL BE REPLACED PROMPTLY.

10. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.

11 ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

12. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. 13. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/3

THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE. 14. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION

AND SEDIMENT CONTROL PRACTICES. 15 FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL

REFER TO "THE FLORIDA DEVELOPMENT MANUAL - A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (F.D.E.R.) CHAPTER 6.

6 FROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAIL SHEET FOR TYPICAL CONSTRUCTION.

17. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED, MULCHED AND MAINTAINED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED.

18. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.

19. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVEN.T.S. EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.

20. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

21. ALL DISTURBED AREAS ARE TO BE STABILIZED THROUGH COMPACTION, SILT SCREENS AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.

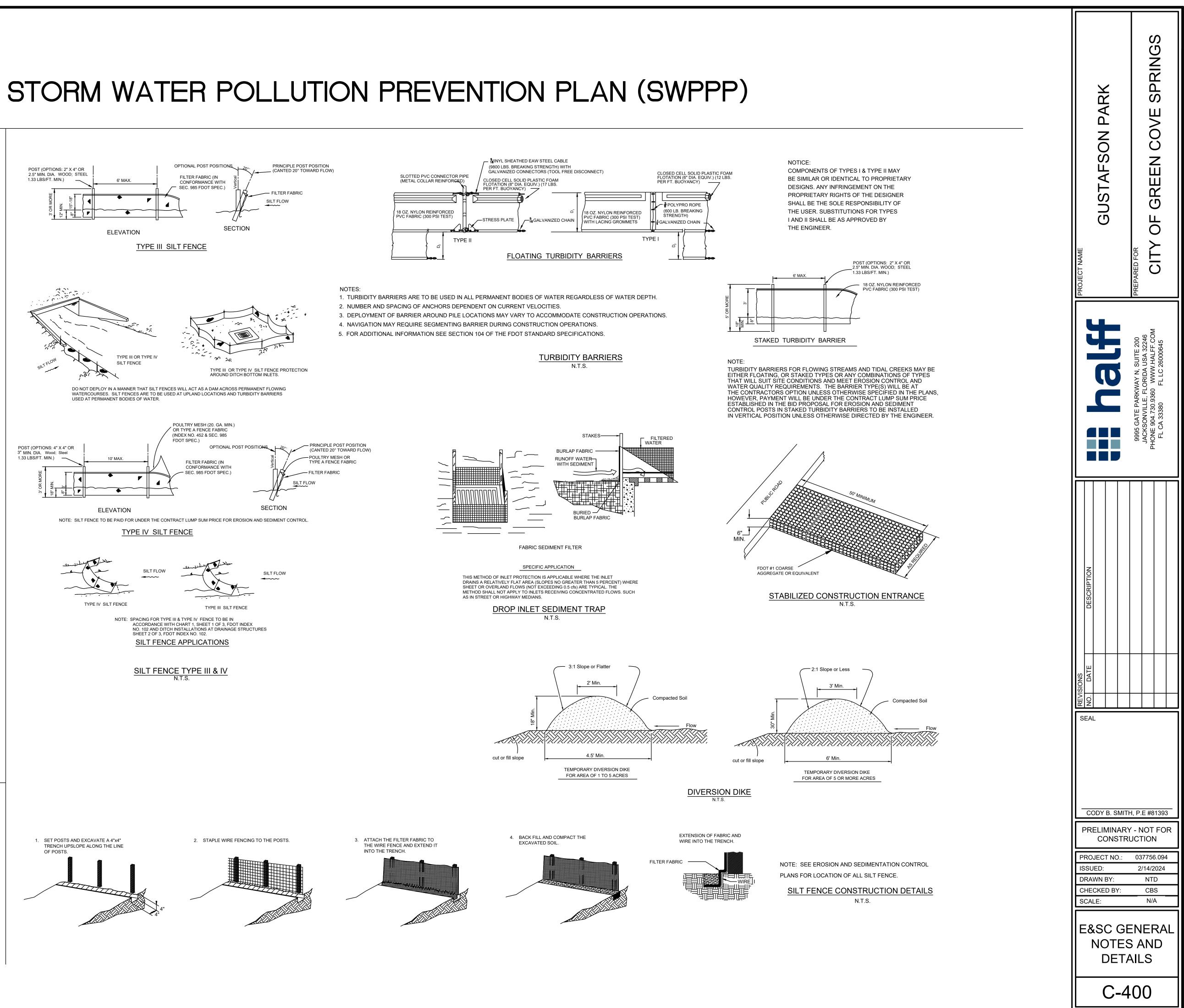
22. ALL DEWATERING, EROSION, AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE STABILIZED.

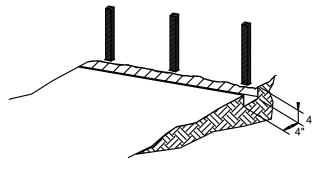
23. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.

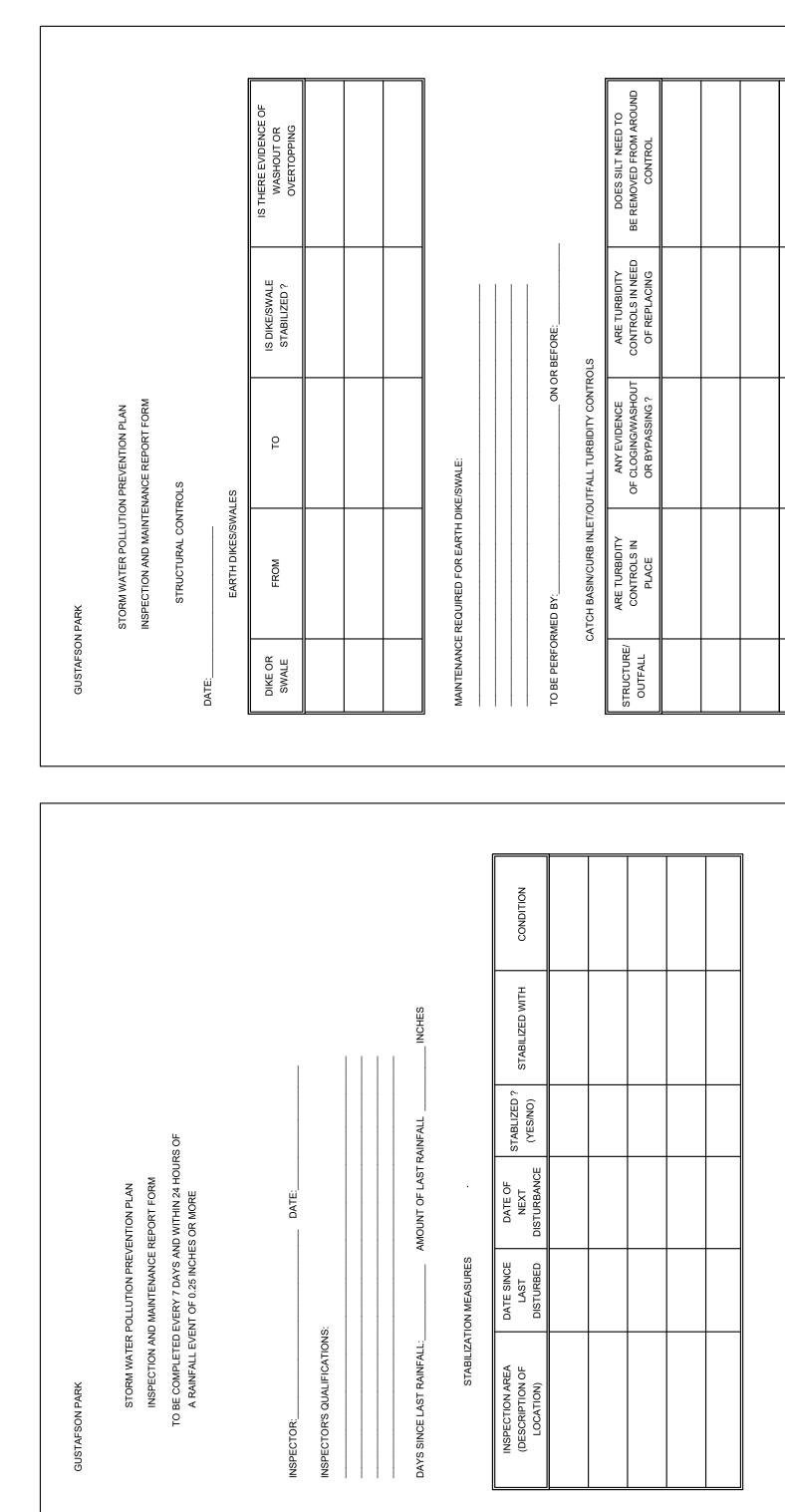
24. THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER DEP INQUIRIES, RELATIVE TO COMPLIANCE OF DEP FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.

NOTE:

WHERE FDOT SPECS AND INDEX ARE REFERENCED, PLEASE REFER TO FDOT ROADWAY & TRAFFIC DESIGN STANDARDS, AND FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.







URBIDITY CONTROLS:	BEFORE:										
MAINTENANCE REQUIRED FOR CATCH BASIN/CURB INLETS/OUTFALLS TURBIDITY CONTROLS:	TO BE PERFORMED BY:	PAGE 2 OF 4	GUSTAFSON PARK	STORM WATER POLLUTION PREVENTION PLAN INSPECTION AND MAINTENANCE REPORT FORM	CHANGES REQUIRED TO THE POLLUTION PREVENTION PLAN:	REASONS FOR CHANGES:			I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	SIGNATURE:	
					CONDITION OF OUTFALL FROM SEDIMENT BASIN				IS THE CULVERT BENEATH THE ENTRANCE WORKING? (IF APPLICABLE)		
	ON OR REFORE				ANY EVIDENCE OF OVERTOPPING OF THE EMBANKMENT ?		ON OR BEFORE:		DOES ALL TRAFFIC USE THE STABILIZED ENTRANCE TO LEAVE THE SITE ?	TRANCE:	
		PAGE 1 OF 4		STORM WATER POLLUTION PREVENTION PLAN INSPECTION AND MAINTENANCE REPORT FORM SEDIMENT BASIN	DEPTH OF SEDIMENT SIDE BASIN	:DIMENT BASIN:	ó	OTHER CONTROLS STABILIZED CONSTRUCTION ENTRANCE	IS THE GRAVEL CLEAN OR IS IT FILLED WITH SEDIMENT?	ABILIZED CONSTRUCTION ENTR	
STABILIZATION REQUIRED:	TO RE PERFORMED RV.	PAG	GUSTAFSON PARK	STORM WATER INSPECTION AN	DEPTH OF SEDIMENT IN BASIN	MAINTENANCE REQUIRED FOR SEDIMENT BASIN:	TO BE PERFORMED BY:	OTHER CONTROLS STABILIZED CONSTRUC	DOES MUCH SEDIMENT GET TRACKED ON TO ROAD ?	MAINTENANCE REQUIRED FOR STABILIZED CONSTRUCTION ENTRANCE:	DACE 3 OF 4

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

NOTE TO CONTRACTOR: THIS IS THE CONTRACTORS CERTIFICATION REQUIRED BY THE EPA'S NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES), STORM WATER POLLUTION PREVENTION PLAN FOR CONSTRUCTION SITES OF 1 ACRE OR MORE. THIS CERTIFICATION MUST BE COMPLETED WEEKLY AND AFTER EVERY RAINFALL EVENT OVER 0.25 INCHES. IT IS SUGGESTED THAT THIS SHEET BE REMOVED FROM THE PLAN SET AND DUPLICATED AS NEEDED BY THE CONTRACTOR.

PROJECT NAME		CIINTAFSON DARK		PREPARED FOR			
				9995 GATE PARKWAY N, SUITE 200	JACKSONVILLE, FLORIDA USA 32246 PHONF 904 730 9360 WWWW HAI FF COM	FL CA 33380 FL LC 26000645	
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OWNER'S REQUIREMENTS

SITE DESCRIPTION

PROJECT NAME AND LOCATION GUSTAFSON PARK COUNTY ROAD 15A, GREEN COVE SPRINGS 32043 CLAY COUNTY

OWNER NAME AND ADDRESS: CITY OF GREEN COVE SPRINGS 4220 RACE TRACK ROAD ST. JOHNS COUNTY, FL 32259

DESCRIPTION

PROPOSED PUBLIC PARK WITH A RESTROOM, TWO TENNIS COURTS, PARKING LOT AND ASSOCIATED INFRASTRUCTURE.

SOIL DISTURBING ACTIVITIES WILL INCLUDE:

CLEARING, EXCAVATION, EARTHWORK, PAVEMENT INSTALLATION AND GRADING.

- RUNOFF CURVE NUMBERS: 1 PRF-CONSTRUCTION = + 80
- 2. DURING CONSTRUCTION = ± 87.1
- 3. POST-CONSTRUCTION = ± 87.1

CONTROL MEASURES.

- SEE MASTER DEVELOPMENT GEOTECHNICAL REPORT FOR SOILS DATA
- SITE MAPS: SEE EROSION AND SEDIMENTATION CONTROL PLAN IN THIS PLAN SET FOR LIMITS OF CONSTRUCTION AND LOCATION OF EROSION

SEE E&SCP GENERAL NOTES AND DETAILS FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION.

SITE AREA:

- 1. TOTAL AREA OF SITE = ± 21.89 ACRES 2. TOTAL AREA TO BE DISTURBED = ± 2.57 ACRES
- NAME OF RECEIVING WATERS: ST. JOHNS RIVER
- 1. ANTICIPATED START DATE OF CONSTRUCTION:
- 2. ANTICIPATED END DATE OF CONSTRUCTION:
- (CONSTRUCTION DATES ARE TO BE FILLED IN BY CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION)

CONTROLS

THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. AN EROSION AND TURBIDITY PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPE STATE AND LOCAL LAWS. REFER TO "CONTRACTORS RESPONSIBILITY" FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.

STORM WATER MANAGEMENT STORM WATER DRAINAGE WILL BE PROVIDED BY (DESCRIPTION:) THE PROJECT WILL CONSTRUCT A STORMWATER CONVEYANCE SYSTEM THAT WILL ULTIMATELY CONNECT

TO A STORMWATER POND LOCATED ON SITE.

WHERE PRACTICAL, TEMPORARY SEDIMENT BASINS WILL BE USED TO INTERCEPT SEDIMENT BEFORE ENTERING THE PERMANENT DETENTION BASIN. THE WET

DETENTION SYSTEM IS DESIGNED WITH A TWO DAY MINIMUM RESIDENCE VOLUME. THIS IS IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT FOR THIS TYPE OF DEVELOPMENT AT THE TIME OF PERMITTING

TIMING OF CONTROLS/MEASURES

REFER TO "CONTRACTORS REQUIREMENTS" FOR THE TIMING OF CONTROL/MEASURES.

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS RELATED TO STORM WATER MANAGEMENT AND EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED (TO BE FILLED IN BY CONTRACTOR PRIOR TO

- COMMENCEMENT OF CONSTRUCTION).
- D.E.R. DREDGE/FILL PERMIT #_____
- C.O.E. DREDGE/FILL PERMIT #____
- S.J.R.W.M.D. M.S.S.W. PERMIT #____
 - N.P.D.E.S PERMIT #_____

POLLUTION PREVENTION PLAN CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF. TRUE, ACCURATE, AND COMPLETE, I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OWNER/OPERATOR OR CONTRACTOR

GENERAL

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.

SEQUENCE OF MAJOR ACTIVITIES:

THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS

- . INSTALL STABILIZED CONSTRUCTION ENTRANCE
- INSTALL SILT FENCES AND HAY BALES AS REQUIRED
- 3 CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT
- . CONSTRUCT SEDIMENTATION
- 5. CONTINUE CLEARING AND
- 6. STOCK PILE TOP SOIL IF REQUIRED
- . PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED
- 8. STABILIZE DENUDED AREAS AND STOCKPILES AS SOON AS PRACTICABLE

ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED. REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD

9. INSTALL UTILITIES, STORM SEWER,

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES. THE SILT FENCES AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS, AFTER THE ENTIRE SITE IS STABILIZED. THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION & TURBIDITY CONTROL PLAN.

CONTROLS

IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED , MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND TURBIDITY CONTROL PLAN AND AS REQUIRED TO MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES

OF THE FILTER FABRIC BARRIER.

- 1. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
- A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES. REFER TO CITY STANDARD DETAIL D-910 FOR PROPER CONSTRUCTION
- 2. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.
- 3. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL LIP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE. LEVEL SPREADER SHALL BE CONSTRUCTED IN ACCORDANCE TO CITY STANDARD DETAIL D-914.

SEEDING/SOD AND PLANTING 12. COMPLETE FINAL PAVING 13. REMOVE ACCUMULATED SEDIMENT FROM BASINS 14. WHEN ALL CONSTRUCTION

INSTALL PERMANENT

CURBS & GUTTER.

10. APPLY BASE TO PROJECT

11. COMPLETE GRADING AND

AS REQUIRED

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

WASTE DISPOSAL

HAZARDOUS WASTE

SANITARY WASTE

TARPAULIN.

X Concrete

X Asphalt

Detergents

MATERIAL MANAGEMENT PRACTICES

GOOD HOUSEKEEPING

ROOF OR OTHER ENCLOSURE.

ORIGINAL MANUFACTURER'S LABEL.

DISPOSING OF THE CONTAINER.

WILL BE FOLLOWED.

HAZARDOUS PRODUCTS

HAZARDOUS MATERIALS.

RESEALABLE.

FOLLOWED.

RECOMMENDED BY THE MANUFACTURER.

ONSITE RECEIVE PROPER USE AND DISPOSAL

CONTAIN IMPORTANT PRODUCT INFORMATION.

DO THE JOB.

🗌 Tar

OFFSITE VEHICLE TRACKING

CONTROLS CONT'D.

- 5. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.
- 6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.
- . INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.
- 8. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.
- 9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.
- 10. TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.
- 1. TEMPORARY REGRASSING : IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 85 PERCENT UNIFORM GOOD GRASS COVER. THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER
- 12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.
- 13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT, SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.
- 14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDED. THE SEEDING MIX MUST VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED OR SODDED.

STRUCTURAL PRACTICES

- I. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY. AND IT SHALL BE CONSTRUCTED IN ACCORDANCE TO D-914.
- 2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN AN DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED FITHER
- INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION A. BLOCK & GRAVEL SEDIMENT FILTER - THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW
- CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. REFER TO D-902 FOR CONSTRUCTION OF A CURB INLET SEDIMENT FILTER, AND D-904 FOR CONSTRUCTION OF A DROP INLET SEDIMENT FILTER. B. GRAVEL SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE
- HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES & UNPROTECTED AREAS. REFER TO D-903 FOR CONSTRUCTION OF CURB INLET & DROP SEDIMENT TRAP.
- C. DROP INLET SEDIMENT TRAP THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE SHEET OR OVERLAND FLOWS (Q < 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS, REFER TO D-905 FOR CONSTRUCTION OF HAY BALE & FABRIC SEDIMENT FILTER.
- 3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION & SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES & HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.
- 4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3.600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE.

NOTE:

THE 3,600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.

CONTRACTOR'S REQUIREMENTS

ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE

TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL

PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT

PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE

PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE

THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE

MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE

MANUFACTURER, SITE PERSONNEL WILL BE INSTRUCTED IN THESE

PRACTICES AND THE SITE SUPERINTENDENT. THE INDIVIDUAL WHO

MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS

NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED

AND DEPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP

REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT

INVENTORY FOR POLLUTION PREVENTION PLAN

XWood

X Masonry Blocks

X Roofing Materials

X Metal Studs

□ ____

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE

X Petroleum Based Products

SPILL PREVENTION

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED

* ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY

* PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE

* WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE

* MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL

* THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH

PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT

ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED: THEY

* IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL

AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE

* SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS

* AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO

MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A

BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE

X Cleaning Solvents

PRESENT ONSITE DURING CONSTRUCTION

X Fertilizers

X Paints

OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF:

ONSITE DURING THE CONSTRUCTION PROJECT:

TO THE SITE ENTRANCE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS

MUD. DIRT OR ROCK TRACKED FROM THE SITE, DUMP TRUCKS HAULING

MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A

SEEING THAT THESE PROCEDURES ARE FOLLOWED.

SEEING THAT THESE PRACTICES ARE FOLLOWED.

REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.

CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES

COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE

REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE

DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT

OTHER CONTROLS

PRODUCT SPECIFIC PRACTICES THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWE

PETROLEUM PRODUCTS

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEAL CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTAN USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER RECOMMENDATIONS.

SPILL PREVENTION CONT

FERTILIZERS

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNT RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO TH STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCO TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULAT

CONCRETE TRUCKS

WASHING OF VEHICLES SHOULD BE CONDUCTED USING PRAC WILL PREVENT DIRECT, UNTREATED DISCHARGES OF WASTEN HAZARDOUS WASTES TO SURFACE AND GROUND WATERS. A DESIGNA AREA MUST BE CREATED SPECIFICALLY FOR WASHING VEHICL BE LAID WITH FILTER FABRIC, CRUSHED STONE (DOT GRAVEL AND COVERED WITH LINED BERM

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAG PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTI CLEANUP:

MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWA THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND C SUPPLIES.

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL IN THE MATERIAL STORAGE AREA ONSITE FOUIPMENT AND MATER INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS GLOVES, GOGGLES, LIQUID ABSORBENT (i.e. KITTY LITTER OR EQUA AND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SI FOR THIS PURPOSE.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FR CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO TH APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLES SIZE OF THE SPILL.

THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASU PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLE THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, CAUSED IT. AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDI HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WH WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND APPLICABLE, IN THE OFFICE TRAILER ONSITE.

MAINTENANCE/INSPECTION PROCE

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE F THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

* NO MORE THAN 10 ACRES OF THE SITE WILL BE DENUDED AT ONE TIM WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.

* ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDE THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION O SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A V FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.

* ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD V ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 H

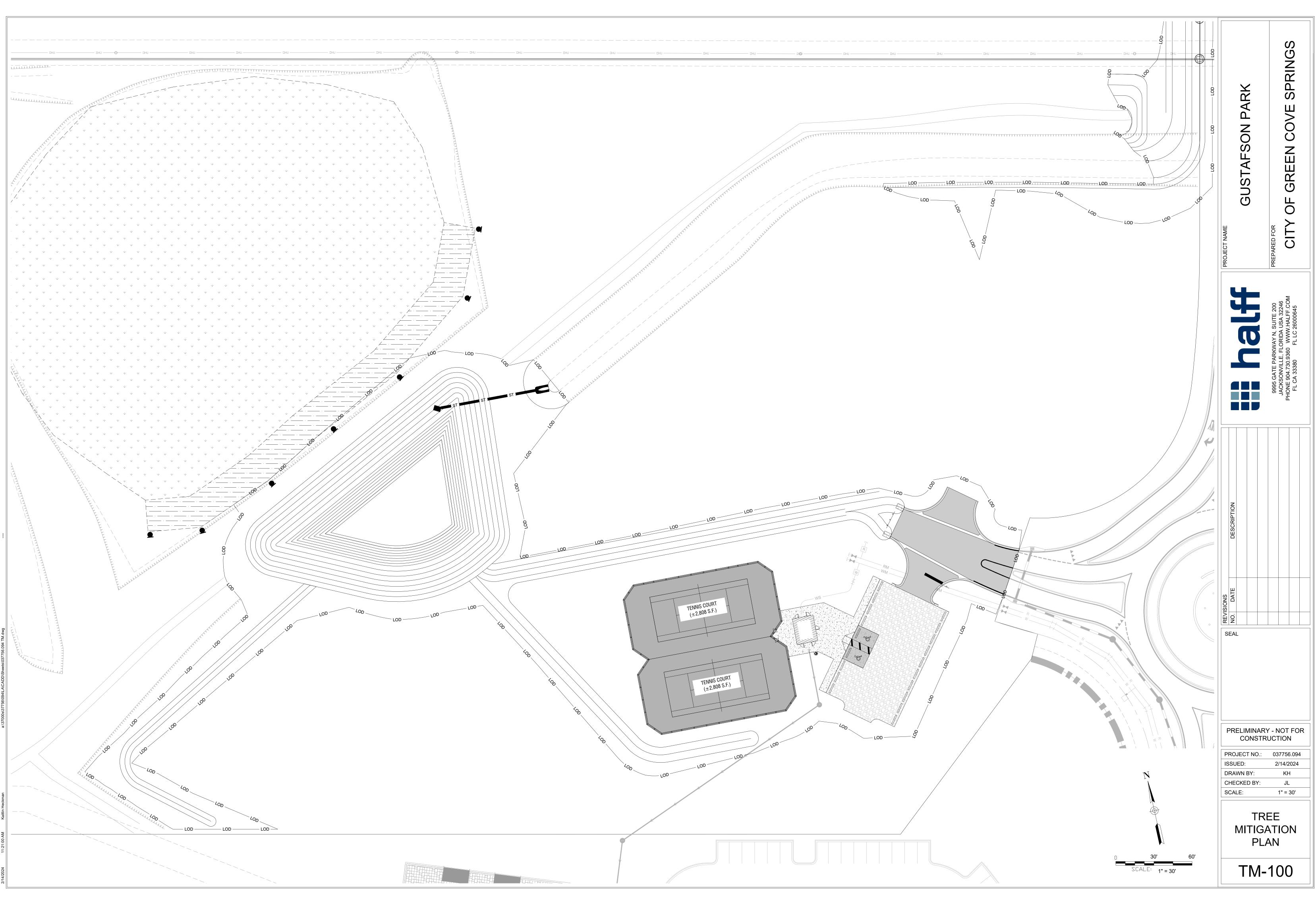
* BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HA

REACHED ONE-THIRD THE HEIGHT OF THE FENCE.

* SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT. TEARS. SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.

* DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.

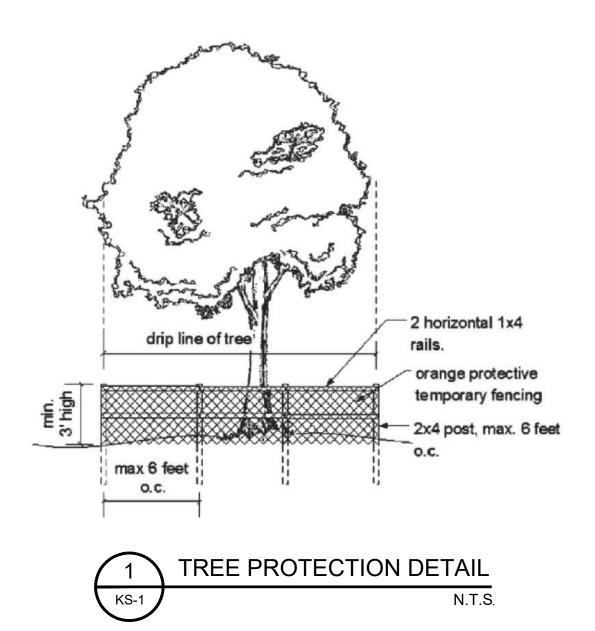
T'D. VED ONSITE: IVE F EALED TANCES VER'S VTS ZER WILL A A DT THE CORDING LATIONS. RACTICES THAT TEWATER AND GNATED HICLES THAT WILL YEL #2 AND UP) AGEMENT AN, THE TON AND	THE SEDIMENT BASING WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT, SEDIMENT BASING WILLER INSPECTED FOR THE DEPTH OF SEDIMENT, SEDIMENT MULLER INSPECTED TO THE DEPTH OF SEDIMENT, SEDIMENT MULLER INSPECTED TO THE DEPTH OF SEDIMENT, SEDIMENT MULLER INSPECTED SEDIMENT, SEDIMENT MULLER INSPECTED SEDIMENT, SEDIMENT MULLER INSPECTED SEDIMENT, SEDIMENT MULLER INSPECTED SEDIMENT SEDIMENT AND FRANKEN SEDIMENT AND PARTINE WILL BE INSPECTED FOR BARE SPOTS, WARNENT SEDIMENT AND PARTINE SOUTH SEDIMENT AND PARTINE SEDIME THE DEPTH SEDIMENT SEDIMENT AND PARTINE SEDIME AND PARTINE SEDIME THE DEPTH SEDIMENT SEDIME THAT AND PARTINE SEDIME THAT AND PARTINE SEDIME THAT AND PARTINE SEDIME THAT AND PARTINE SEDIMETAT AND PARTINE SEDIMETATION AND SEDIMETATION	PROJECT NAME BOURTAFSON PARK	9995 GATE PARKWAY N, SUITE 200 JACKSONVILLE, FLORIDA USA 32246 PHONE 904.730.9360 WWW.HALFF.COM FL CA 33380 FL LC 26000645 CTY OF GREEN COVE SPRINGS
	* UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION). ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.		PHONE FL
LL BE KEPT RIALS WILL AGS, JAL), PECIFICALLY /. L WILL / FROM D THE LESS OF THE ASURES TO CLEAN UP LL, WHAT ED.	I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND AND SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THERE UNDER.	DESCRIPTION	
SITE RDINATOR. WHO E NR PHASE LL ND IF	BUSINESS NAME AND ADDRESS OF CONTRACTOR & ALL SUBS	REVISIONS NO. DATE SEAL	
E PRACTICES HAT WILL BE TIME	DATE DATE	CODY B. SMITH	H, P.E #81393
NDENT, I OR A WEEK AND D WORKING 4 HOURS OF T HAS , TO , AND		PRELIMINARY CONSTRU PROJECT NO.: ISSUED: DRAWN BY: CHECKED BY: SCALE:	
ES		SWPPP	FORMS



CITY OF GREEN COVE SPRINGS TREE PRESERVATION DURING **DEVELOPMENT AND CONSTRUCTION (SECTION 113-248)**

(A) PROTECTIVE BARRIERS

- (1) DURING CONSTRUCTION, PROTECTIVE BARRIERS SHALL BE PLACED, AS NECESSARY AND/OR AS DIRECTED BY THE DEVELOPMENT SERVICES DIRECTOR, TO PREVENT THE DESTRUCTION OR DAMAGING OF TREES.
- (2) TREES DESTROYED OR RECEIVING MAJOR DAMAGE MUST BE REPLACED BEFORE OCCUPANCY OR USE UNLESS APPROVAL FOR THEIR REMOVAL HAS BEEN GRANTED DURING THE SITE PLAN APPROVAL PROCESS
- (3) ALL TREES NOT DESIGNATED FOR REMOVAL MAY BE REQUIRED TO BE PROTECTED BY BARRIER ZONES ERECTED PRIOR TO CONSTRUCTION OF ANY STRUCTURES, ROADS, UTILITY SERVICE, OR OTHER IMPROVEMENTS,
- (B) THE PROTECTIVE BARRIER SHALL BE CONSTRUCTED TO THE FOLLOWING STANDARDS: (1) THE PROTECTIVE BARRIER SHALL BE CONSTRUCTED OUTSIDE THE DRIP LINE OF THE TREE, WHEN POSSIBLE (SEE FIGURE A). THE PROTECTIVE BARRIER SHALL HAVE A MINIMUM OF A SIX-INCH RADIUS, PLUS ONE INCH FOR EACH ONE INCH OF CALIPER.(
- (2) THE PROTECTIVE BARRIER SHALL BE A MINIMUM OF THREE FEET HIGH. (3) PROTECTIVE BARRIER POSTS SHALL BE TWO INCHES BY FOUR INCHES OR LARGER AND SHALL BE NO MORE THAN SIX FEET APART.
- (4) THE BARRIER SHALL HAVE TWO ONE-BY-FOUR-INCH HORIZONTAL RAILINGS AFFIXED SECURELY TO THE POSTS.
- (5) THE ENTIRE PROTECTIVE ZONE SHALL BE WRAPPED IN ORANGE SAFETY FENCING MATERIAL, A MINIMUM OF THREE FEET IN HEIGHT.
- (6) THE PROTECTIVE BARRIERS SHALL BE INSPECTED BY THE DEPARTMENT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- (A) NO GRADE CHANGES SHALL BE MADE WITHIN THE PROTECTIVE BARRIER ZONES WITHOUT PRIOR APPROVAL OF THE CITY DEVELOPMENT SERVICES DIRECTOR.
- (D) WHERE ROOTS GREATER THAN ONE-INCH DIAMETER ARE EXPOSED, THEY SHALL BE CUT CLEANLY. (E) PROTECTIVE BARRIER ZONES SHALL REMAIN IN PLACE AND INTACT UNTIL SUCH TIME AS
- LANDSCAPE OPERATIONS BEGIN OR CONSTRUCTION IS COMPLETE, WHICHEVER OCCURS FIRST. (F) THE DEVELOPMENT SERVICES DIRECTOR MAY CONDUCT PERIODIC INSPECTIONS OF THE SITE BEFORE WORK BEGINS AND DURING CLEARING, CONSTRUCTION AND POST-CONSTRUCTION PHASES OF DEVELOPMENT IN ORDER TO ENSURE COMPLIANCE.
- (G) NO BUILDING MATERIALS, MACHINERY OR TEMPORARY SOIL DEPOSITS SHALL BE PLACED WITHIN PROTECTIVE BARRIER ZONES DEFINED ABOVE.
- (H) NO ATTACHMENTS OR WIRES OTHER THAN THOSE OF A PROTECTIVE OR NON-DAMAGING NATURE SHALL BE ATTACHED TO ANY TREE.



SAMPLE TREE SURVEY (PH. 1) TO DETERMINE BASIS

Facto
e 1 <mark>Surv</mark>
Tree
513
Pine Ca
Plot
29
ock Can

Acres

PHASE 2B MITIGATION CALCULATIONS FOR ARBORISTS

LAKIEK

envirônmental services

	Factors	
Phase	e 1 Survey Re	esults
Acres	Tree In.	In/ac.
64.94	5135	79
Planted	Pine Canopy	/ Sample
Acres	Plot In	In/ac.
4	29	7
Hamm	ock Canopy S	Sample
Acres	Plot In	In/ac.
1	172	172

Gustai	son Park Est	imates	
Shrub	Dominated	l Area*	
Acres	In/Ac	Total In.	
2.57**	79	203	_
PLAN FOF	R DEMÀRCÁI	-	IITIGATION
Note* AT	V and drone	surveys	
found no pr	otected tree	s 35 inches	
	DBH within (Gustafson	
or greater			
orgreater	Parcel.		

REQUIRED REPLACEMENT INCHES CALCULATIONS

TREES INCHES IN SHRUB DOMINATED AREA (ESTIMATES BASED ON PHASE

PERCENTAGE OF LIVE OAKS BASED ON INTERIOR PHASE 1 (203 X 11%)

REMAINING TREES THAT ARE NOT LIVE OAKS IN SHRUB DOMINATED AREA (REPLACEMENT INCHES REQUIIRED FOR LIVE OAKS (1 TO 1)

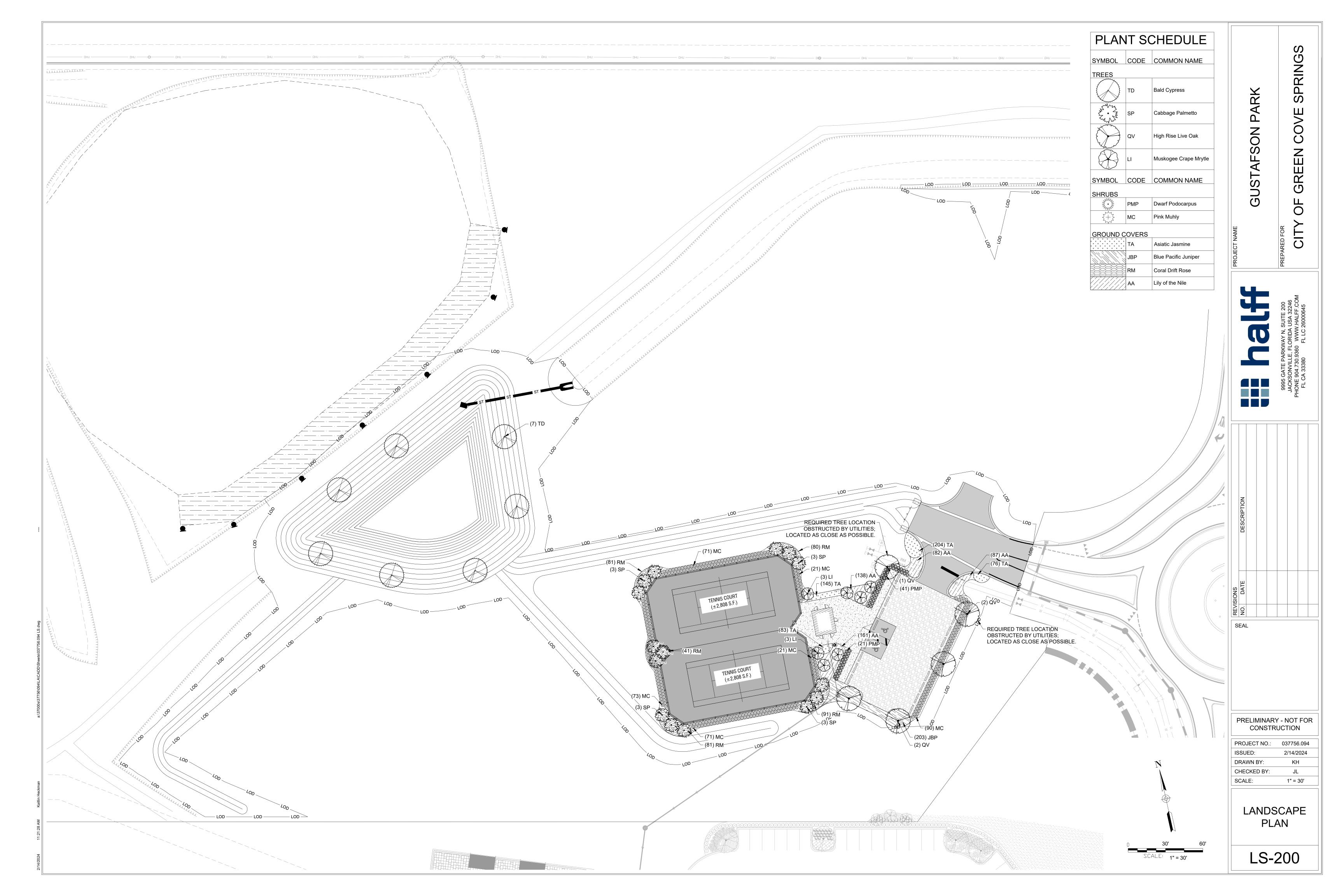
REPLACEMENT INCHES REQUIRED FOR ALL OTHER PROTECTED TREES (1 TOTAL REPLACEMENT INCHED REQUIRED

* SEE ESTIMATES BY ARBORIST TO THE LEFT OF THIS CHART

E 1)*	203*
	23
(203-23)	180
	23
TO 3)	60 (180/3)
	83 (23 + 60)

PROJECT NAME		MARCINOSECON DARK			PREPARED FOR			
					9995 GATE PARKWAY N, SUITE 200	JACKSONVILLE, FLORIDA USA 32246 PHONE 904 730 9360 - WWW HALEE COM	FL CA 33380 FL LC 26000645	
	PA NO. DATE DESCRIPTION							
F PF IS DI CI SC			DNS T NC BY: D B' T T	STR D.: Y: R G/	2	ГІОМ 7775(/14/2 Кн ЈЦ 1" =	N 6.09 ² 2024 H - 30'	4

CALL 48 HOURS BEFORE YOU DIG It's the Law! 1-800-432-4770 SUNSHINE STATE ONE CALL OF FLORIDA, INC.



LANDSCAPE CODE REQUIREMENTS (CGCS)

LANDSCAPE BUFFER AREA (SECTION 113-244(d)(3))

LANDSCAPE BUFFER AREA (SECTION 113-244(d)(3))		
TYPE	REQUIRED	PROVIDED	
A MINIMUM 10 FT. STRIP ALONG R.O.W.	YES	YES	
A MINIMUM OF ONE ROW OF CANOPY TREES WITH A MINIMUM OF A 2.5 DBH PLANTED 50 FT. O.C. (STAGGERED)	YES	YES	
REQUIRED LANDSCAPING (SECTION 113-244(b)			
TYPE	REQUIRED	PROVIDED	
PERIMETER LANDSCAPING : ONE SHADE TREE FOR EACH 50 LF OF PERIMETER OF SITE			
NORTHERN PERIMETER	N/A	N/A	N/A
EASTERN PERIMETER	N/A	N/A	N/A
SOUTHERN PERIMETER	N/A	N/A	N/A
WESTERN PERIMETER	N/A	N/A	N/A
INTERIOR LANDSCAPING: ONE TREE PER EVERY 1,500 SF FOR THE FIRST 10,500 SF OF PROJECT, THEN ONE TREE PER EVERY 4,000 SF OF THE REMAINDER OF THE PROJECT	34	34	145,865 SF; 10,500 / 1,500 = 7 TREES; 145,865 - 10,500 = 135,365 / 4,000 = 25 TREES; 34 TOTAL TREES REQUIRED
BUFFER ZONES FOR INCOMPATIBLE LAND USES	(SECTION 113-246	(5))	
TYPE	REQUIRED	PROVIDED	COMMENTS
BUFFER TO SCREEN PERIMETER FROM AN INCOMPATIBLE LAND USE	N/A	N/A	N/A
PARKING AREA LANDSCAPE REQUIREMENTS (11	3-246)		
ТҮРЕ	REQUIRED	PROVIDED	COMMENTS
LANDSCAPE AREA FOR PARKING AREA SHALL COVER TEN PERCENT OF THE PARKING AREA.	611 SF	611+ SF	6,113 SF x 10% = 611 SF REQUIRED
A LANDSCAPE AREA SHALL BE PROVIDED AT EACH END OF ALL ROWS OF PARKING.	YES	YES	
EACH LANDSCAPE AREA WILL BE A MINIMUM	YES	YES	

TYPE	REQUIRED	PROVIDED	<u>COMMENTS</u>
BUFFER TO SCREEN PERIMETER FROM AN INCOMPATIBLE LAND USE	N/A	N/A	N/A

TYPE	REQUIRED	PROVIDED	COMMENTS
LANDSCAPE AREA FOR PARKING AREA SHALL COVER TEN PERCENT OF THE PARKING AREA.	611 SF	611+ SF	6,113 SF x 10% = 611 SF REQUIRED
A LANDSCAPE AREA SHALL BE PROVIDED AT EACH END OF ALL ROWS OF PARKING.	YES	YES	
EACH LANDSCAPE AREA WILL BE A MINIMUM OF 5 FT. WIDE INSIDE CURB.	YES	YES	
AT LEAST ONE CANOPY TREE OR TWO SUB CANOPY TREES WILL BE REQUIRED IN EACH LANDSCAPE AREA FOR THE ROW OF PARKING.	YES	YES	
EACH LANDSCAPE AREA WILL HAVE FIVE SHRUBS PER EACH REQUIRED TREE.	YES	YES	

FLORIDA NO. 1 QUALITY REQUIREMENT:

ALL REQUIRED PLANT MATERIALS, INCLUDING, BUT NOT LIMITED TO, TREES AND SHRUBS, SHALL EQUAL OR EXCEED THE STANDARDS FOR FLORIDA NO. 1 AS ESTABLISHED AND REVISED BY THE STATE DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.

CGCS LANDSCAPE DESIGN AND MATERIALS:

ALL LANDSCAPING G SHALL COMPLY WITH SECTION 113-247 OF THE CITY CODE.

PLANT SCHEDULE									
SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	NATIVE	TREE INCHES	REMARKS
TREES									
	LI	7	Lagerstroemia x `Muskogee`	Muskogee Crape Mrytle	45G	3"		21"	10-12` Ht., 5-6` Spd., 6" Cal., Min. of 3 Stems, 2" Min. Per Stem, F.L.S.
	QV	5	Quercus virginiana `High Rise`	High Rise Live Oak	65G	4"	Native	20"	12-14` Ht., 6-7` spd., 4" Cal., F.L.S.
Mar Salar	SP	15	Sabal palmetto	Cabbage Palmetto	B&B	3"	Native	45"	C.T. Noted on Plan, Florida #1, F.L.S.
\bigcirc	TD	7	Taxodium distichum	Bald Cypress	65G	4"	Native	20"	12-14' Ht., 6'-8' Sprd., 4" Cal., F.L.S.
SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	FIELD2	NATIVE	PLANTING AREA - SF	PLANTING AREA - SF
SHRUBS									
3+5	MC	347	Muhlenbergia capillaris	Pink Muhly	3G		Native	1,856 SF	24-30" ht., 18-24" spd., 30" O.C.
	PMP	62	Podocarpus macrophyllus `Pringles`	Dwarf Podocarpus	3G			388 SF	18-24" ht., 18-24" spd., 30" O.C.
GROUND (COVERS								
	AA	468	Agapanthus africanus	Lily of the Nile	1G			1,053 SF	12-15" ht., 12-15" spd., 10-12 bibs, 18" O.C.
	JBP	203	Juniperus conferta `Blue Pacific`	Blue Pacific Juniper	3G			812 SF	6-8" ht., 15-18" spd., 2` O.C.
	RM	374	Rosa x `Meidrifora`	Coral Drift Rose	3G			1,816 SF	8-10" HT., 12-15" spd.,. 2` O.C.
$\begin{array}{c} + & + & + & + & + & + & + & + & + & + $	TA	508	Trachelospermum asiaticum	Asiatic Jasmine	1G			508 SF	4-6" ht., 6-8" spd., 12" O.C.

PROJECT NAME	PROJECT NAME GUSTAFSON PARK		CITY OF GREEN COVE SPRINGS			
	9995 GATE PARKWAY N, SUITE 200 JACKSONVILLE, FLORIDA USA 32246 PHONE 904.730.9360 WWW.HALFF.COM FL CA 33380 FL LC 26000645					
REVISIONS	DESCRIPTION					
PR ISS DF CH SC	RELIMINAL CONST ROJECT NO.: SUED: RAWN BY: IECKED BY: ALE: LAND CO EQUIR		TION 7756.094 (14/2024 KH JL 1" = 30'	4		

LANDSCAPE SPECIFICATIONS

MATERIALS

- 1. PLANTING SOIL BACKFILL MIX: TREE PITS, SHRUBS AND GROUNDCOVERS: MIX 50% EXISTING TOPSOIL TO 50% SOIL ADMIXTURE COMPRISED OF 1/3 PARTS DECOMPOSED PINE BARK OR PEAT MOSS, 1/3 PARTS COW MANURE, AND 1/3 PARTS IMPORTED TOPSOIL AND SOIL AMENDMENTS AS REQUIRED TO BRING THE pH TO BETWEEN 5.5 TO 6.5. ALTERNATE PLANTING SOIL BACKFILL MIXTURE: MIX 50% EXISTING TOPSOIL AND 50% 'FLORIDA MUCK' AND SOIL AMENDMENT AS REQUIRED TO BRING pH TO BETWEEN 5.5 AND 6.5.
- 2. TOP SOIL SHALL BE DEFINED AS THE UPPER 4" TO 6" OF NATURALLY OCCURRING SOILS SUITABLE FOR AGRICULTURAL PRODUCTION AND ARE WITHOUT DRAINAGE LIMITATIONS. IMPORT TOPSOIL FROM OFF-SITE SOURCES, IF REQUIRED. OBTAIN TOPSOIL FROM NATURALLY WELL-DRAINED SITES WHERE TOPSOIL OCCURS AT LEAST 4" DEEP. UNDER NO CIRCUMSTANCES SHOULD TOPSOIL BE OBTAINED FROM BOGS OR MARSHES.
- 3. PLANTING BED AND TREE MULCH: MINI PINE NUGGETS TO MATCH COMMUNITY LANDSCAPE PLAN REQUIREMENTS. PROVIDE FOR 3" LAYER, AFTER SETTLING.

4. SOD: SEE PLANT SCHEDULE

- 5. SEEDING: QUICK GROWING / TEMPORARY COVER
- MARCH-APRIL PLANTING: ANNUAL RYEGRASS MAY PLANTING: BROWN TOP MILLET

JUNE-AUGUST PLANTING: MIX 50% RYE GRAIN AND 50% WINTER WHEAT SEPTEMBER-OCTOBER PLANTING: ANNUAL RYEGRASS

- 6. FERTILIZER: FOR PLANT BEDS USE 8-8-8 RATIO, AND FOR LAWN AREAS USE 16-4-8 RATIO, EACH WITH AT LEAST 25% OF THE NITROGEN IN A WATER INSOLUBLE ORGANIC FORM.
- 7. TREE GUYING: STRAPS SHALL BE MINIMUM 1" WIDE NYLON OR POLYPROPYLENE. ALL WOOD STAKES SHALL BE LOCATED BEYOND THE EDGE OF THE ROOT BALL

SUBMITTALS

- 1. SOD CERTIFICATE FROM GROWER.
- 2. SAMPLE OF PREPARED SOIL BACKFILL MIX (1/2 CU. FOOT)
- 3. SOIL TEST REPORT FOR pH WITH RECOMMENDATIONS FOR pH ADJUSTMENT (ALL LANDSCAPE PLANTING AREAS AND PLANTING BACKFILL MIX)
- 4. WRITTEN PLANT GUARANTEE
- 5. SUBMIT MANUFACTURER DATA WITH INSTRUCTIONS FOR APPLICATIONS FOR ALL HERBICIDES.
- 6 PLANTING AREA / BED PREP HERBICIDES
- A. FOR GRASS AND WEEK KILL PRIOR TO TILLING, TOP DRESSING OR MULCHING: ROUNDUP BY MONSANTO
- 7. PALM FERTILIZER
- A. BALANCE OF NITROGEN (N), POTASH (P), POTASSIUM (K), AND MAGNESIUM (Mg), IN A 2N-1P-3K-1Mg RATIO, AND ALSO CONTAINING 1-2% MANGANESE (Mn), 1-2% IRON (Fe), SULFUR (S), AND TRACE AMOUNTS OF ZINC (Zn), COPPER (Cu) AND BORON (B), PROVIDE 100% OF N. K AND Mg IN CONTROLLED-RELEASE FORM (RESIN OR SULFUR COATED). 8. FUNGICIDE
- A. FOR ROT AND WILT DISEASES: BROAD SPECTRUM SYSTEMIC FUNGICIDE THAT IS ALSO LABELED FOR THE CONTROL OF PHYTOPHTHORA BUD ROT. B. FOR GRAPHILOA LEAF SPOT: MANEB, MANCOZEB OR BROAD SPECTRUM COPPER FUNGICIDE SUCH AS KOCIDE 101. COPPER (Cu) AND BORON (B). PROVIDE 100% OF N, K AND Mg IN CONTROLLED-RELEASE FORM (RESIN OR SULFUR COATED).

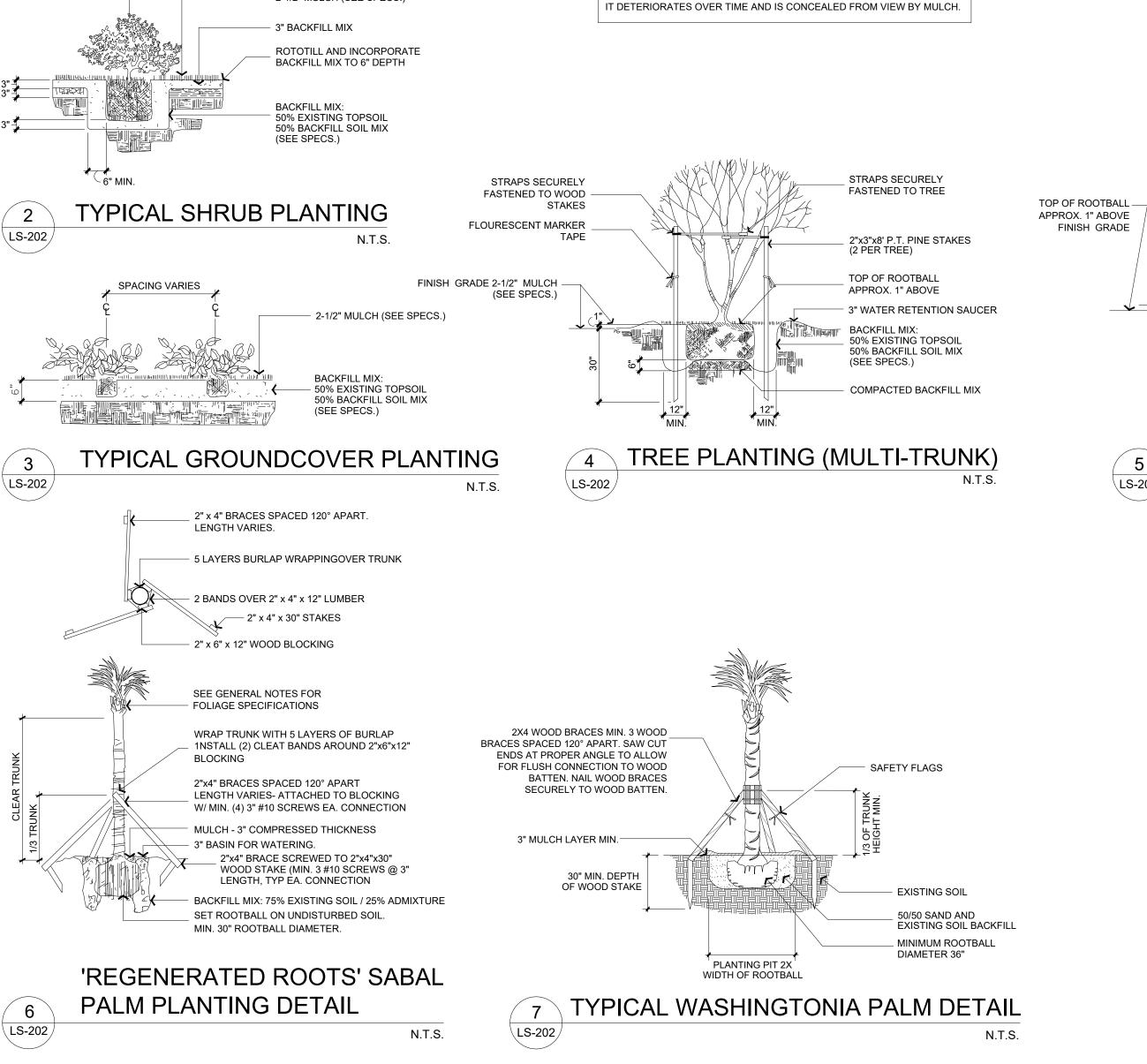
9. INSECTICIDE A. SYSTEMIC INSECTICIDE SUCH AS LINDANE OR SEVIN

EXECUTION:

- 1. PERFORM ALL WORK AS SHOWN AND IN STRICT ACCORDANCE WITH SOUND HORTICULTURAL PRACTICE.
- 2. PLANTING PREPARATION:
- A. INCORPORATE BACKFILL MIX AS SPECIFIED AND AS SHOWN ON DETAILS AND DRAWINGS. B. ADJUST SOIL AND BACKFILL pH TO 5.5 AND 6.5.
- C. ADJUST SOIL pH TO 5.5-6.5 AS RECOMMENDED BY THE SOIL TEST. USE ALUMINUM SULFATE OR IRON SULFATE TO LOWER THE pH AND USE HYDRATED LIME OR DOLOMITE TO RAISE THE pH.
- 3. PLACE ALL PLANT MATERIALS WHERE SHOWN ON DESIGN PLANS.
- 4. AFTER PLANTS ARE INSTALLED EACH TREE SHALL HAVE 1/4 LBS. OF 8-8-8 FERTILIZER APPLIED PER CALIPER INCH.
- 5. ALL TREES SHALL BE STAKED AND GUYED AS SHOWN TO MAINTAIN VERTICAL ALIGNMENT
- 6. APPLY 2-1/2 INCHES OF MULCH (AFTER SETTLING) TO ALL TREES, SHRUB AND GROUNDCOVER BEDS. REDUCE MULCHING TO 1-1/2" DEPTH IN ANNUAL PLANTING AREAS
- 7. ALL TREES PLACED IN LAWN AREAS SHALL UTILIZE A 3-FOOT DIAMETER CIRCLE OF LANDSCAPE MULCH BENEATH-SOD SHALL BE REMOVED.
- GRASSING:
- 1 SOIL PREPARATION A. REMOVE STONES OVER 1-1/2" IN DIAMETER, STICKS, ROOTS, RUBBISH AND OTHER EXTRANEOUS MATTER FROM ALL LAWN AREAS.
- B. ADJUST SOIL pH AS RECOMMENDED BY THE SOIL TEST FOR GRASS SPECIFIED. C. ROTO-TILL SOIL 4" DEEP AND RAKE LAWN AREAS TO A SMOOTH EVEN SURFACE. IN AREAS TO BE SODDED, ALLOW FOR SOD THICKNESS, PROVIDING
- A FINISH GRADE 2" BELOW ADJACENT PAVEMENTS. D. MOISTEN PREPARED LAWN AREAS PRIOR TO PLANTING IF DRY.
- 2. SEEDING: A. ALL DISTURBED AREAS OF THE PROJECT SITE THAT ARE NOT IDENTIFIED TO BE SODDED SHALL BE SEEDED. B. APPLY QUICK GROWING / TEMPORARY SEED UNIFORMLY AT A RATE OF 10 POUNDS PER 1000 SQUARE FEET.
- TH THIN LAYER OF OAT OR WHEAT STRAW AND RAKE SOIL LIGHTLY TO LOOSEN SURFACE PRIOR TO SEED APPLICA ROLL LIGHTLY. WATER THOROUGHLY WITH A FINE SPRAY TO ESTABLISH SOIL MOISTURE TO 4" DEPTH. MAINTAIN APPROPRIATE SOIL MOISTURE LEVEL TO OPTIMIZE SEED ESTABLISHMENT.
- 3. SODDING
- A. INSTALL SOD WHERE SHOWN ON DESIGN PLANS. B. APPLY FERTILIZER OVER PREPARED SOIL IN ALL AREAS TO BE SODDED, EXCEPT SLOPES ADJACENT TO WATER'S EDGE. APPLY MATERIAL AT A RATE OF 6 LBS. PER 1,000 SQUARE FEET. SECOND APPLICATION-AS SPECIFIED UNDER LAWN MAINTENANCE AND WARRANTY.
- C. LAY SOD WITHIN 36 HOURS OF HARVESTING TIME D. LAY SOD IN STRAIGHT, (NOT CURVED) PARALLEL ROWS TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS, WITHOUT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS. WORK TOPSOIL INTO MINOR CRACKS.
- E. ROLL ENTIRE SODDED AREA WITH A 200 LB. ROLLER. F. WATER SOD IMMEDIATELY AFTER ROLLING, THEREAFTER WATER SUFFICIENTLY TO KEEP SOIL MOIST TO A DEPTH OF 4" UNTIL ESTABLISHED.

CLEANUP:

- 1. AT THE END OF EACH WORK DAY, REMOVE ALL DEBRIS RESULTING FROM THE WORK, CLEAN PAVED SURFACES AND BARRICADE ALL HAZARDS.
- 2. RESTORE ANY DAMAGED AREAS CAUSED BY THE WORK.
- INITIAL INSPECTION AND ACCEPTANCE:
- 1. THE WARRANTY SHALL BEGIN AFTER INITIAL LANDSCAPE INSPECTION AND ACCEPTANCE.
- 2. INSPECTION SHALL BE MADE BY THE OWNER OR OWNER'S REPRESENTATIVE WITHIN ONE WEEK OF WRITTEN NOTIFICATION FROM THE LANDSCAPE CONTRACTOR THAT INSTALLATION IS COMPLETE. PLANTS ARE SUBJECT TO INSPECTION AT ANY TIME.
- PLANT GUARANTEE:
- 1. ALL TREES, SHRUBS AND GROUNDCOVERS SHALL BE GUARANTEED BY THE LANDSCAPE CONTRACTOR TO BE HEALTHY, AND IN FLOURISHING CONDITION OF ACTIVE GROWTH FOR A PERIOD OF (1) ONE YEAR FROM INITIAL INSPECTION AND ACCEPTANCE. SOD SHALL BE GUARANTEED TO BE HEALTHY, FREE OF NOXIOUS WEEDS, DISEASE AND INSECT INFESTATION FOR A PERIOD OF SIXTY (60) DAYS FROM THE DATE OF INITIAL ACCEPTANCE.
- MAINTENANCE AND WARRANTY:
- 1. BEGIN MAINTENANCE OF LANDSCAPE WORK IMMEDIATELY AFTER EACH AREA IS PLANTED AND CONTINUE FOR THE MAINTENANCE PERIOD SPECIFIED.
- 2. PLANT MAINTENANCE AND WARRANTY A. CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING AND MAINTAINING PLANT MATERIAL FOR THE DURATION OF THE ESTABLISHMENT PERIOD.
- B. THE ESTABLISHMENT PERIOD FOR PLANT MAINTENANCE AND WARRANTY SHALL BE 365 DAYS AFTER INITIAL ACCEPTANCE. C. INSPECTIONS WILL BE CONDUCTED ON 90 DAY INTERVALS THROUGHOUT THE ESTABLISHMENT PERIOD TO ASSURE ALL PLANTINGS ARE BEING MAINTAINED IN A CONDITION OF GOOD HEALTH AND ACTIVE GROWTH. ANY DEAD OR DYING PLANTS SHALL BE PROMPTLY REMOVED AND REPLACED WITHIN 2 WEEKS FOLLOWING THE DATE OF INSPECTION. RESET SETTLED PLANTS TO PROPER GRADE AND POSITION AND TIGHTEN OR REPAIR GUYS AND STAKES AS NECESSARY. RE-MULCH TREES, SHRUBS AND GROUNDCOVER BEDS AS NECESSARY TO MAINTAIN THE SPECIFIED MULCH LAYER THROUGHOUT THE ESTABLISHMENT PERIOD.
- D. ONE MONTH PRIOR TO THE END OF THE 365 DAY ESTABLISHMENT PERIOD, THE CONTRACTOR SHALL NOTIFY THE OWNER TO COORDINATE A DATE FOR FINAL INSPECTION OF ALL PLANTINGS AS BASIS FOR FINAL ACCEPTANCE.
- 3. LAWN MAINTENANCE AND WARRANTY: A. MAINTAIN LAWNS FOR A MINIMUM PERIOD OF 60 DAYS AFTER INITIAL ACCEPTANCE
- B. WATER LAWN SUFFICIENTLY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES UNTIL FINAL ACCEPTANCE. C. MOW LAWNS WHEN SOD IS FIRMLY ROOTED AND TOP GROWTH EXCEEDS 4 INCHES. MOW TO A HEIGHT OF NO LESS THAN 2-1/2 INCHES. D. FERTILIZE LAWNS 6 WEEKS AFTER PLANTING WITH 16-4-8 AT A RATE OF 6 LBS. PER 1000 SQUARE FEET.
- **REPLACEMENTS AND CONDITIONS:**
- 1. REPLACEMENTS FOR TREES, SHRUBS, AND GROUNDCOVERS SHALL BE MADE WITHIN 2 WEEKS FOLLOWING EACH 90 DAY ESTABLISHMENT PERIOD INSPECTION, INCLUDING THE FINAL INSPECTION.
- 2. A REPLACEMENT WILL BE OF THE SAME SIZE AS THE ORIGINAL WITH NO ADDITIONAL SOIL ADDITIVES TO BE USED.







3. AFTER INITIAL INSPECTION THE LANDSCAPE CONTRACTOR WILL NOT BE RESPONSIBLE FOR PLANT MATERIAL THAT HAS BEEN DAMAGED BY VANDALISM, FIRE, THEFT, RELOCATION OR OTHER ACTIVITIES BEYOND THE LANDSCAPE CONTRACTOR'S CONTROL

4. THE LANDSCAPE CONTRACTOR WILL NOT BE RESPONSIBLE FOR PLANT LOSSES DUE TO ABNORMAL WEATHER CONDITIONS SUCH AS FLOODS, EXCESSIVE WIND DAMAGE OR SEVERE FREEZING. FINAL INSPECTION AND ACCEPTANCE:

1. FINAL INSPECTION: THE LANDSCAPE CONTRACTOR WILL CONDUCT A FINAL INSPECTION WITH THE OWNER OR OWNER'S REPRESENTATIVE AT THE END OF THE ESTABLISHMENT PERIOD FOR LAWNS AND PLANT MATERIALS.

2. PLANT MATERIALS: A. REPLACE ANY MATERIAL NOT IN HEALTHY CONDITION OR WHICH FAILS TO MEET SPECIFICATIONS. B. DECIDUOUS MATERIAL WILL BE GUARANTEED TO BREAK DORMANCY IF PLANTED IN DORMANT SEASON.

3 I AWNS A, AT THE TIME OF FINAL INSPECTION, SODDED LAWNS WILL BE ACCEPTABLE PROVIDED A HEALTHY, WELL-ROOTED, EVEN-COLORED, LAWN IS ESTABLISHED, FREE OF WEEDS, DISEASE AND INSECT INFESTATION. THERE SHALL BE NO OPEN JOINTS OR BARE AREAS. B. SEEDED AREAS SHALL EXHIBIT NO LESS THAN 85% COVERAGE, UNIFORMLY THROUGHOUT. GRASS STANDS SHALL BE WELL ROOTED, EVEN-COLORED

PLANT INSTALLATION NOTES

1. CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES, EXISTING TREES AND VEGETATION PRIOR TO COMMENCEMENT OF THE PLANT INSTALLATION. 2. CONTRACTOR SHALL ANTICIPATE THE POSSIBILITY OF THE LANDSCAPE ARCHITECT ADJUSTING THE LOCATIONS OF CERTAIN PLANTS AND TREES IN THE FIELD.

3. ALL TREES AND SHRUBS SHALL BE OF THE SIZES AS CALLED FOR IN THE PLANT MATERIALS SCHEDULE. ANY PLANT MATERIALS AS DETERMINED BY THE LANDSCAPE ARCHITECT AS NOT MEETING THE SIZES AND QUALITY AS CALLED FOR SHALL BE REMOVED FROM THE SITE. 4. ALL PLANT MATERIALS SHALL BE EQUIVALENT TO FLORIDA #1 OR BETTER AS OUTLINED BY GRADES AND STANDARDS FOR NURSERY PLANTS.

DIVISION OF PLANT INDUSTRY, FLORIDA DEPT. OF AGRICULTURE AND CONSUMER SERVICES. 5. IF QUANTITIES DIFFER BETWEEN THE PLAN AND SCHEDULE, THOSE ON THE SCHEDULE SHALL GOVERN. THE CONTRACTOR SHALL VERIFY THAT THE QUANTITIES INDICATED WILL PROVIDE THE COVERAGE AS SPECIFIED AND REPORT ANY DISCREPANCIES AT THE TIME OF BIDDING TO THE LANDSCAPE ARCHITECT. 6. ALL SHRUB MATERIAL SHALL BE PLANTED IN STAGGERED ROWS, SPACED ON CENTER (O.C.) AS SPECIFIED, UNLESS OTHERWISE SHOWN ON DESIGN

PI ANS 7. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONDITIONS THAT MAY ADVERSELY AFFECT PLANTING OPERATIONS IMMEDIATELY UPON SUCH FINDINGS.

IRRIGATION NOTES

2-1/2" MULCH (SEE SPECS.)

SPACING VARIES SEE PLAN /

SCHEDULE

AND FREE OF WEEDS, DISEASE AND INSECT INFESTATION.

1 AN AUTOMATIC IRRIGATION SYSTEM WILL BE INSTALLED PROVIDING 100% COVERAGE FOR ALL NEWLY INSTALLED PLANT MATERIAL, BUBBLERS WILL BE USED ON ALL NEWLY PLANTED TREES IN THE COMMON AREAS (LOW VOLUME IRRIGATION). BAHIA GRASS WILL BE USED IN ALL LOW PROFILE COMMON AREAS AND WON'T BE IRRIGATED. HIGH VOLUME IRRIGATION WILL BE LIMITED TO HIGH PROFILE COMMON AREAS (I.E. AMENITY CENTER) WHERE THE USE OF ST. AUGUSTINE GRASS WILL BE USED. THE HIGH PROFILE AREAS WILL BE LIMITED TO NO MORE THAN 50% OF THE OVERALL COMMON AREA.

NOTE:

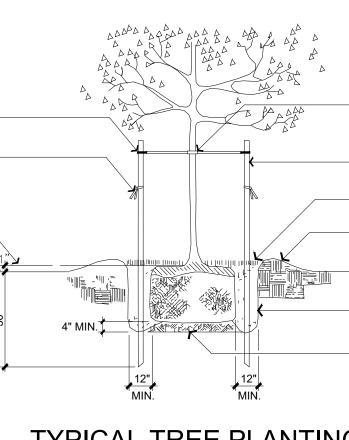
CONTRACTOR MUST CHECK STRAP TENSION 2-4 WEEKS AFTER

INSTALLATION. STRAPPING SHOULD BE RETIGHTENED IF LOOSE.

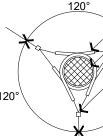
CONTRACTOR MUST PERIODICALLY CHECK STRAP TENSION FOR TWELVE

TENSION IS MAINTAINED. ROOTBALL SYSTEM SHOULD NOT BE REMOVED;

MONTHS FOLLOWING INSTALLATION. ROOTBALL SYSTEM PROVIDES PROTECTION FROM HIGH WIND EVENTS, PROVIDED PROPER STRAP STAKES FLOURESCENT MARKER TAPE TOP OF ROOTBALL APPROX. 1" ABOVE FINISH GRADE







STRAPS SECURELY FASTENED TO WOOD

STRAPS SECURELY FASTENED TO TREE

2"x3"x8' P.T. PINE STAKES (2 PER TREE)

2-1/2" MULCH (SEE SPECS)

3" WATER RETENTION SAUCER

BACKFILL MIX: 50% EXISTING TOPSOIL 50% SOIL MIX (SEE SPECS.) COMPACTED BACKFILL MIX

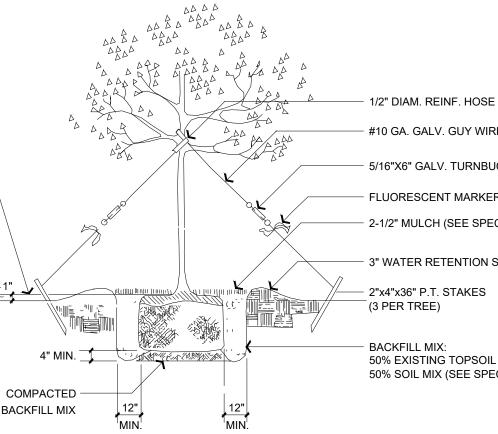
TYPICAL TREE PLANTING AND GUYING

1" - 3 1/2" Caliper Tree Planting

THREE SECTIONS OF RUBBER HOSE PER TREE (ONE COLOR N.T.S.

FOR ALL). TREE TRUNK

> STANDARD WIRE CRIMP OR TWIST CONNECTOR.



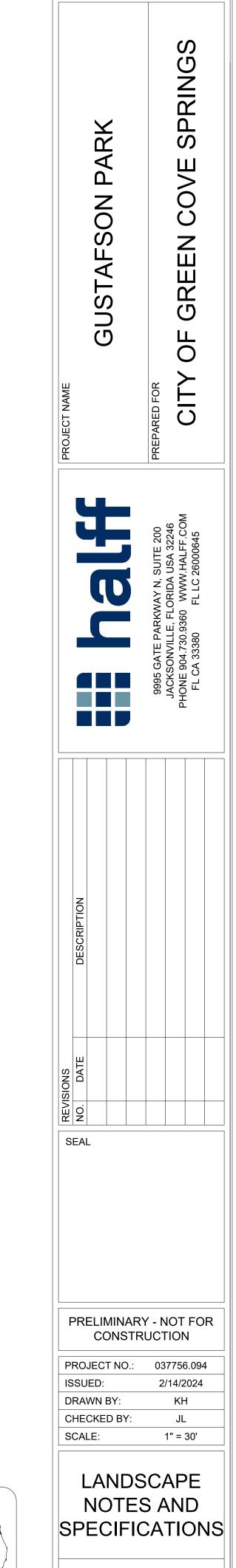
#10 GA. GALV. GUY WIRE 5/16"X6" GALV. TURNBUCKLE

- FLUORESCENT MARKER TAPE - 2-1/2" MULCH (SEE SPECS)

3" WATER RETENTION SAUCER - 2"x4"x36" P.T. STAKES

BACKFILL MIX: 50% EXISTING TOPSOIL 50% SOIL MIX (SEE SPECS.)

5 TYPICAL TREE PLANTING AND GUYING LS-202 Trees 4" and Greater N.T.S.



LS-202

