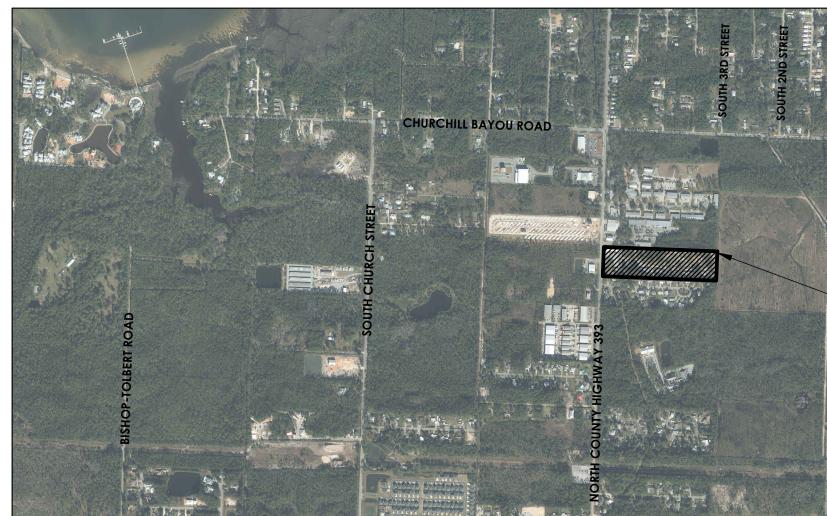
SOUTH WALTON MOSQUITO CONTROL DISTRICT MASTER PLAN

774 NORTH COUNTY HIGHWAY 393 SANTA ROSA BEACH, FLORIDA WALTON COUNTY, FLORIDA JULY 5, 2023



VICINITY MAP NOT TO SCALE



UTILITY PROVIDERS

LAND SURVEYOR:

CALL BEFORE

YOU DIG

OWNER AND CONSULTANTS

OWNER(S):

ARCHITECT:

CIVIL ENGINEERS:

STRUCTURAL ENGINEERS:

WATER, SEWER & RECLAIMED PROVIDER:	REGIONAL UTILITIES OF WALTON COUNTY 4432 US-98 SANTA ROSA BEACH, FL 32459 PH: 850-231-5114
POWER PROVIDER:	CHOCTAWHATCHEE ELECTRIC COOPERATIVE 3906 US-98 SANTA ROSA BEACH, FL 32459 PH: 850-892-2111
TV/CABLE PROVIDER:	MEDIACOM COMMUNICATIONS CORPORATION 176 COMMERCIAL PARKWAY SANTA ROSA BEACH, FL 32459 PH: 855-633-4226
GAS PROVIDER:	OKALOOSA GAS DISTRICT 364 VALPARAISO PARKWAY SANTA ROSA BEACH, FL 32459 PH: 850-729-4700

SOUTH WALTON MOSQUITO CONTROL 774 NORTH COUNTY HIGHWAY 393

O'CONNELL & ASSOCIATES CONSULTING ENGINEERS, LLC 1394 COUNTY HIGHWAY 283 SOUTH, BUILDING #3

O'CONNELL & ASSOCIATES CONSULTING ENGINEERS, LLC 1394 COUNTY HIGHWAY 283 SOUTH, BUILDING #11

CONTACT: JON NASH, P.E. PH: 850-403-4555

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SANTA ROSA BEACH, FL 32459

SANTA ROSA BEACH, FL 32459

SANTA ROSA BEACH, FL 32459

NICEVILLE, FLORIDA 32578

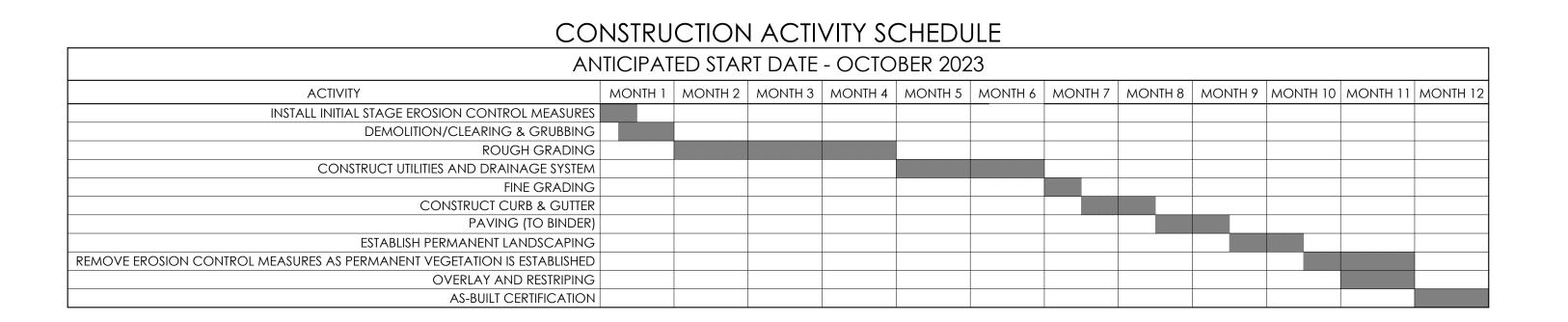
PH: 850-267-2112

DESTIN, FL 32541 PH: 850-837-8152

GCT SURVEYING 121 HART STREET

PH: 850-678-5141

DAG ARCHITECTS, INC. 1223 AIRPORT ROAD, #104





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GENERAL NOTES:

- 1. THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND COMPLETELY FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO SUBMITTING A BID. EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- 2. WORK AREAS: THE CONTRACTOR SHALL RESTRICT HIS OPERATIONS TO OWNER'S PROPERTY UNLESS SPECIFIC AUTHORIZATION HAS BEEN
- OBTAINED BY THE CONTRACTOR, IN WRITING, FROM PROPERTY OWNERS FOR THE USE OF PRIVATE LAND.

 3. PROTECTION OF PUBLIC WATER SUPPLY: THE WORK REQUIRES CONTRACTOR OPERATIONS UPON AN OPERATING PUBLIC WATER SYSTEM. TAKE EXTREME CARE TO AVOID UNNECESSARY INTERFERENCE WITH THESE FACILITIES OR CONTAMINATION OF THE WATER SYSTEM. COORDINATE ACTIVITIES WITH OWNER'S PERSONNEL TO AVOID SERVICE INTERRUPTION. SHOULD INTERFERENCE WITH THE UTILITIES OCCUR AS A RESULT OF THE CONTRACTOR'S OPERATIONS, DEVOTE FULL EFFORTS TO CORRECTING THE PROBLEM WITHOUT DELAY.
- 4. OWNER OCCUPANCY: THE OWNER RESERVES THE RIGHT TO OCCUPY PARTIALLY COMPLETED PARTS OF THE WORK PRIOR TO SUBSTANTIAL COMPLETION, PROVIDED THAT SUCH OCCUPANCY DOES NOT INTERFERE WITH COMPLETION OF WORK. SUCH PARTIAL OCCUPANCY SHALL NOT CONSTITUTE ACCEPTANCE OF THE WORK OR ANY PART OF THE WORK.
- 5. <u>COORDINATION</u>: THE WORK OF THIS CONTRACT INCLUDES COORDINATION OF THE WORK WITH THE WORK OF OTHER CONTRACTORS, PUBLIC UTILITIES, AND THE OWNER, FROM BEGINNING OF CONSTRUCTION ACTIVITY THROUGH PROJECT CLOSE-OUT AND WARRANTY PERIODS.
- 6. CHANGES IN THE WORK: THE OWNER RESERVES THE RIGHT TO CHANGE PLANNED LOCATIONS OF THE WORK DURING CONSTRUCTION TO AVOID INTERFERENCES OR OBSTRUCTIONS. FIELD CHANGES OF PLANNED LOCATIONS SHALL BE MADE ONLY WHEN DIRECTED BY THE OWNER'S
- REPRESENTATIVE.

 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF EXISTING UTILITIES AND TO DETERMINE IF OTHER UTILITIES WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILTY SERVICE PROVIDER(S) OF ALL UTILITY CONFLICTS AND REQUEST DIRECTION AS TO HOW THE CONFLICTS WILL BE RESOLVED.
- B. THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
- 9. CONTRACTORS SHALL MAINTAIN PUBLIC ACCESS ALONG ALL PUBLIC RIGHT-OF-WAYS.
- 10. NO PARKING OR UNLOADING OF MATERIALS SHALL OCCUR WITHIN PUBLIC RIGHT-OF-WAY.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO STRUCTURES WITHIN THE PUBLIC RIGHT-OF-WAY AND SHALL REPAIR ANY DAMAGE CAUSED BY THE CONSTRUCTION ACTIVITIES TO THE PUBLIC RIGHT-OF-WAY AT THE CONTRACTOR'S EXPENSE.
- 12. CONTRACTOR SHALL RESTORE ALL DISTURBED RIGHTS-OF-WAY TO A CONDITION EQUAL TO OR BETTER THAN ITS PREVIOUS CONDITION.
 DISTURBED AREAS ARE TO BE SEEDED AND MULCHED UNLESS NOTED OTHERWISE. DITCH/SWALE SIDE SLOPES STEEPER THAN 1 UNIT VERTICAL TO
 3 UNITS HORIZONTAL ARE TO BE SODDED AND THE SOD IS TO BE PINNED. STABILIZATION IS TO BE PERFORMED IMMEDIATELY FOLLOWING FORCE
 MAIN CONSTRUCTION. RIGHT- OF- WAY RESTORATION MUST NOT LAG CONSTRUCTION BY MORE THAN 14 DAYS.
- 13. THE CONTRACTOR SHALL PLACE AND MAINTAIN ADEQUATE BARRICADES, CONSTRUCTION SIGNS, FLASHING LIGHTS AND GUARDS PER F.D.O.T. INDEX NUMBERS 611 AND 612 DURING PROGRESS OF CONSTRUCTION WORK AND UNTIL IT IS SAFE FOR BOTH PEDESTRIAN AND VEHICULAR TRAFFIC
- 14. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL PER F.D.O.T. INDEX 102 TO PREVENT EROSION RESULTING FROM INCREASED RUNOFF DURING CONSTRUCTION.
- 15. DESIGNATION "RESTORE" ON PLANS MEANS RECONSTRUCT WITH LIKE MATERIALS EQUAL TO OR BETTER THAN EXISTING CONDITIONS, AND INCLUDES SEEDING AND MULCHING OR SODDING.
- 16. CONTRACTOR SHALL PROVIDE PRIVATE GARBAGE AND WASTE REMOVAL SERVICE FOR CONSTRUCTION WASTE.

GENERAL TESTING NOTES:

- 1. TESTING SHALL BE IN ACCORDANCE WITH THE TESTING SCHEDULE CONTAINED WITHIN THESE PLANS. SELECTION AND CONTRACTING WITH THE TESTING FIRMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND SCHEDULE ALL TESTS.
- 2. COPIES OF THE TEST FOR ASPHALT, BASE, SUBGRADE, FILL, AND BACKFILL UNDER ROADWAYS AND STRUCTURES, AND UTILITY TRENCHES SHALL BE PROVIDED DIRECTLY TO THE ENGINEER FOR APPROVAL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE TESTING AND INSURE THAT ALL APPLICABLE TESTS HAVE BEEN PERFORMED. FAILURE TO OBTAIN TEST RESULTS AT ANY POINT OF CONSTRUCTION WILL REQUIRE THE REMOVAL OF THE IMPROVEMENT AND REPLACEMENT BY CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER. IT SHOULD BE NOTED THAT THE APPLICABLE LOCAL GOVERNMENT MAY REQUIRE COMPACTION TESTING IN ACCORDANCE WITH THE TESTING SCHEDULE FOR UTILITY TRENCH FILL AND BACKFILL OR ACCORDING TO THE LOCAL GOVERNMENTAL STANDARDS, WHICHEVER IS MORE STRINGENT.

TESTING SCHEDULE:

ITEM	TEST	TEST IDENTIFICATION	TEST REQUIREMENT	TEST FREQUENCY		
	MAXIMUM DENSITY/ OPTIMUM MOISTURE	AASHTO T-180 ASTM D-1557	N/A	PER SOIL TYPE		
UTILITY TRENCH FILL & BACKFILL	FIELD DENSITY	AASHTO T-191, T-204 ASTM D-1556, D-2937	95% OF MAXIMUM DENSITY	ONE PER 500 LF HORIZONTAL OR ONE PER 750 SY WITH A MINIMUM OF 3 TEST, ALTERNATING LIFTS (12")		
	GRADATION	AASHTO M-92	(15% PASSING NO. 200)	ONE PER SOIL TYPE		
	MAXIMUM DENSITY/ OPTIMUM MOISTURE	AASHTO T-180 ASTM D-1557	N/A	PER SOIL TYPE		
FILL & BACKFILL UNDER ROADWAYS AND STRUCTURES	FIELD DENSITY	AASHTO T-191, T-204, T-238 ASTM D-1556, D-2937, D-2922	98% OF MAXIMUM DENSITY	ONE PER 500 LF HORIZONTAL OR ONE PER 750 SY WITH A MINIMUM OF 3 TEST, ALTERNATING LIFTS (12")		
	GRADATION	AASHTO M-92	(15% PASSING NO. 200)	ONE PER SOIL TYPE		
	BEARING VALUES	LBR-FDOT	40 (MIN.)	ONE PER SITE OR AT MATERIAL CHANGES		
SUBGRADE	MAXIMUM DENSITY/ OPTIMUM MOISTURE	AASHTO T-180 ASTM D-1557	N/A	PER SOIL TYPE		
	FIELD DENSITY & THICKNESS	AASHTO T-191, T-204 ASTM D-1556, D-2937	98% OF MAXIMUM DENSITY	ONE PER 500 LF HORIZONTAL OR ONE PER 750 SY WITH A MINIMUM OF 3 TEST		
D.4.05	MARSHALL STABILITY TESTS	FDOT FM 5-511	500 LBS. (MIN.)	ONE PER SOURCE OR AS MATERIAL CHANGES		
BASE (SAND-ASPHALT)	FIELD DENSITY & THICKNESS	ASTM D-1559	95% OF LAB DENSITY AS DETERMINED BY MARSHALL METHOD	ONE PER 500 LF HORIZONTAL OR ONE PER 750 SY WITH A MINIMUM OF 3 TEST		
	BEARING VALUES	LBR-FDOT	70 (MIN.)	ONE PER SITE OR AT MATERIAL CHANGES		
BASE (SAND-CLAY)	MAXIMUM DENSITY/ OPTIMUM MOISTURE	AASHTO T-180 ASTM D-1557	N/A	PER SOIL TYPE		
	FIELD DENSITY & THICKNESS	AASHTO T-191, T-204 ASTM D-1556, D-2937	98% OF MAXIMUM DENSITY	ONE PER 500 LF HORIZONTAL OR ONE PER 750 SY WITH A MINIMUM OF 3 TEST		
	MATERIALS QUALITY BITUMEN CONTENT & GRADATION	AASHTO T-164, 5-30 ASTM D-2172	ASTM D-1559	F.D.O.T. SPEC. 330, 331, 916 ONE PER DAY FOR GRADUATION		
ASPHALT	FIELD DENSITY & THICKNESS	ASTM D-2950	95% OF LAB DENSITY	ONE PER 500 LF HORIZONTAL OR ONE PER 750 SY WITH A MINIMUM OF 3 TEST		
	AGGREGATE CERTIFICATION	N/A	F.D.O.T. SPEC. 901, 902	ONE PER SUPPLIER		
	MARSHALL STABILITY TESTS	ASTM D-1559	F.D.O.T. SPEC. 331	ONE PER DAY		
	SLUMP TEST	AASHTO T-119 ASTM C-143	2" TO 3"	AS REQUIRED BY SOILS ENGINEER OR ONE PER SET OF CYLINDERS		
CONCRETE (MISC. SITE WORK)	COMPRESSIVE STRENGTH	AASHTO T-23 ASTM C-31	3000 PSI	ONE SET OF 3 CYLINDERS PER 50 CY PER DAY		
	AIR CONTENT	AASHTO T-199	3% TO 6%	ONE PER SET OF CYLINDERS		

NOTE: CONCRETE FOR SITE WORK INCLUDES BUT IS NOT LIMITED TO CURB, CURB & GUTTER, SIDEWALKS, ETC., EXCEPT CONCRETE PAVEMENT.

REFERENCE SOURCES:

AASHTO	AMERICAN ASSOCIATION OF HIGHWAY TRANSPORTATION OFFICIALS
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
FDEP	FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STORMWATER SYSTEM MAINTENANCE NOTES:

- 1. CONTRACTOR SHALL STAGE AND TIME CONSTRUCTION TO MINIMIZE THE SIZE OF EXPOSED SOIL AREAS AND THE TIME BETWEEN EXPOSING THE SOIL AREA AND FINISHING THE SOIL AREA.
- 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING A TASK TO PROVIDE EROSION CONTROL UNLESS ANOTHER PARTY HAS BEEN PREVIOUSLY SPECIFIED AS RESPONSIBLE FOR THE EROSION CONTROL ASSOCIATED WITH THAT TASK. IN THE EVENT ANOTHER PARTY IS RESPONSIBLE FOR EROSION CONTROL, THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR COORDINATION WITH THE PARTY RESPONSIBLE. IN THE EVENT THAT DAMAGE TO THE CONSTRUCTED ITEM IS A RESULT DUE TO LACK OF EROSION CONTROL, THE CONTRACTOR SHALL REPAIR OR REPLACE THE ITEM AT NO CHARGE TO THE OWNER.
- 3. THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/ SEDIMENTATION BARRIER (SILT FENCE, TURBIDITY BARRIER, OR AS SPECIFIED IN THE CONSTRUCTION DRAWINGS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS, AND WETLAND OR JURISDICTIONAL AREAS. IF, IN THE OPINION OF THE ENGINEER, AND/OR REGULATORY AUTHORITIES, EXCESSIVE QUANTITIES OF MATERIAL ARE TRANSPORTED OFF-SITE BY EROSION OR STORMWATER RUNOFF, THE CONTRACTOR SHALL IMPROVE CONDITIONS TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES AT NO ADDITIONAL COST TO THE OWNER. IN NO CASE SHALL CONSTRUCTION COMMENCE PRIOR TO INSTALLATION OF EROSION CONTROL/SEDIMENTATION BARRIER.
- 4. CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION-RELATED TRAFFIC IS TO ENTER AND EXIT SITE.
- 5. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AREA USING SPRINKLING IRRIGATION OR OTHER ACCEPTABLE METHODS.

STORMWATER POLLUTION PREVENTION PLAN:

SITI	E DESCRIPTION:							
Α.	CONSTRUCTION ACTIVITY:	GRADING AND INFRASTRUCTURE WORK FOR 11,986 SF (±) OF OFFICE SPACE AND ASSOCIATED						
		PARKING, FUTURE FLEET HOUSING AND MAINTENANCE, AND MISCELLANEOUS INFRASTRUCTURE						
		IMPROVEMENTS .						
В.	PROJECT LIMITS:	±8.144 ACRES AS SHOWN ON SHEET C3.0-EROSION CONTROL AND DEMOLITION PLAN KEY MAP.						
C.	. MAJOR SOIL DISTURBING ACTIVITIES: GRADING, EXCAVATING POND AND UTILITY/DRAINAGE INSTALLATION.							
D.	PROJECT AREA:	PARCEL 26-2S-22-33200-000-0600 AS SHOWN ON SHEET C2.0-EXISTING CONDITIONS PLAN KEY MAP.						
E.		<u>/// // .</u>						
	E.1. RUNOFF COEFFICIENTS BEFORE, DU	RING, AND AFTER CONSTRUCTION:						
	BEFORE: 78 DURING:	AFTER: 89						
	E.2. DESCRIPTION OF SOIL OR QUALITY (OF DISCHARGE: SITE CONSISTS OF RUTLEGE FINE SAND (HSG B/D), HURRICANE SAND (HSG						
		C), AND PICKNEY SAND (HSG D) WHICH EXHIBITS HIGH RUNOFF DURING						

MAJOR STORM EVENTS.

TEMPORARY GRASSING

TEMPORARY MULCHING

BUFFER ZONES

SILT FENCES

DITCH LINER

PIPE SLOPE DRAINS

SEDIMENT BASINS

STORM SEWERS
TURBIDITY BARRIER

STONE OUTLET STRUCTURES

ROCK BEDDING AT CONSTRUCTION EXIT

BERMS

N/A

CONTROL DITCH, AND 0.343 ACRES (±) OF NATURAL DRAINAGE TO AN OFFSITE WETLAND.

F. NAME OF RECEIVING WATERS: EXISTING MOSQUITO CONTROL DITCH THAT ULTIMATELY DISCHARGES TO A TRIBUTARY OF CHOCTAWHATCHEE BAY KNOWN AS HOGTOWN BAYOU.

G. WETLAND AREA: N/A

EQUIPMENT.

NARRATIVE - SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS THE SOIL DISTURBING ACTIVITIES FOR THIS PROJECT ARE AS FOLLOWS:

E.3. ESTIMATES OF SIZE OF DRAINAGE AREA FOR EACH OUTFALL:

A. EROSION AND SEDIMENT CONTROLS:
A.1. STABILIZATION PRACTICES:
TEMPORARY SODDING
PERMANENT PLANTING, SODDING, OR SEEDING
ARTIFICIAL COVERING

PRESERVATION OF NATURAL RESOURCES

A.2. STRUCTURAL PRACTICES:

SAND BAGGING

HAY BALES

DIVERSION, INTERCEPTOR, OR PERIMETER DITCHES

FLUMES

TIMBER BEDDING AT CONSTRUCTION EXIT

FLUMES
TIMBER BEDDING AT CONSTRUCTION EXIT
SEDIMENT TRAPS
STORM INLET SEDIMENT TRAP (ROCK BAGS)
CURBS AND GUTTERS
VELOCITY CONTROL DEVICES
RIP RAP

B. DESCRIPTION OF STORMWATER MANAGEMENT:C. OTHER CONTROLS:C.1. WASTE DISPOSAL:C.2. OFFSITE VEHICLE TRACKING:

C.3. SANITARY WASTE:
C.4. FERTILIZERS AND PESTICIDES:

C.5. NON-STORM WATER DISCHARGE (INCLUDING SPILL REPORTING):

NG: DES:

NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE
LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
EXCESS DIRT ON ROAD REMOVED DAILY
STABILIZED CONSTRUCTION ENTRANCE
N/A
FERTILIZERS AND/OR PESTICIDES SHALL BE APPLIED BY A LICENSED OR

0.738 ACRES (±) TO PROPOSED POND 1 OUTFALL, 5.743 ACRES (±) TO

PROPOSED POND 2 OUTFALL, 1.319 ACRES (±) DIRECT TO MOSQUITO

ONLY UPON PROPER PLACEMENT OF ALL EROSION CONTROLS CAN SOIL

DISTURBING ACTIVITIES TAKE PLACE. HAY BALES AND SILT FENCE WILL BE

USED LATERALLY AT SPECIFIED INTERVALS. HAY BALES SHALL BE USED TO

PREVENT SEDIMENTATION FROM ESCAPING PROJECT LIMITS.

CERTIFIED APPLICATOR ACCORDING TO MANUFACTURERS
RECOMMENDATIONS OR AS DIRECTED BY THE PROJECT ENGINEER.
NO NON-STORMWATER DISCHARGES ARE ANTICIPATED.

APPROVED STATE, LOCAL PLANS, OR STORM WATER PERMITS: GENERIC PERMIT APPLICATION NO.
 MAINTENANCE:

4. MAINTENANCE:
ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN (7) CALENDAR DAYS AFTER THE SURROUNDING EXPOSED AREA HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY

INSPECTION:
ALL CONTROLS SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AS WELL AS AFTER 0.25' OR MORE OF RAIN. AN INSPECTION AND
MAINTENANCE REPORT WILL BE MADE PER EACH INSPECTION. BASED ON INSPECTION RESULTS THE CONTROLS SHALL BE REVISED PER THE

- A. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTION THAT INDICATE ITEMSARE NOT IN GOOD WORKING ORDER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GUAGES AND DAILY RAINFALL RECORDS. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT AND CERTIFY THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.
- B. IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS NEEDED.
- SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS NEEDED.

 C. RECORDS OF THE INSPECTION AND THE CONSTRUCTION PERMIT MUST BE MAINTAINED AT THE CONSTRUCTION SITE AND BE READILY AVAILABLE FOR INSPECTION.
- 5. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING COVERAGE UNDER THE GENERAL PERMIT FOR STORMWATER DISCHARGE FROM THE LARGE AND SMALL CONSTRUCTION OR ANY DISTURBANCE OF LAND GREATER THAN ONE ACRE. THE DEVELOPER/CONTRACTOR WILL FORWARD A COPY OF THE PERMIT TO REGIONAL UTILITIES AT (850) 231-5114 PRIOR TO COMMENCEMENT OF WORK. ALL REQUIRED ELEMENTS OF THE STORMWATER POLLUTION PREVENTION PLAN MUST BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION. FAILURE TO COMPLY COULD RESULT IN CODE ENFORCEMENT ACTION AND FINES.

HATCH LEGEND

STRUCTURE

ASPHALT PAVEMENT

GRAVEL PAVEMENT

CONCRETE PAVEMENT

PAVERS

PAVERS

PERMEABLE PATH

CLEARING LIMITS

LINETYPE LEGEND

EXISTING

PROPOSED

	LXISTIINO	I KOI OSLD
PROPERTY LINE		
SECTION LINE	·	
SETBACK LINE		
EASEMENT LINE		
FLOOD LINE		
MAJOR CONTOUR LINE		 10
MINOR CONTOUR LINE	- — — 9— — -	——9——
LIMITS OF CONSTRUCTION		
SILT FENCE		SF
WATER LINE	W	w
FORCE MAIN	—— FM ——	—— FM ——
GAS	——— G ———	—— G ——
OVERHEAD POWER	OHP	—— ОНР ——
CHAIN LINK FENCE	— X — X —	xx
WOODEN FENCE		
HYDROLOGIC SOIL GROUP LINE		
STORM PIPE		
SYMBO	L LEGEND	

SYMBOL	LEGEND	
	EXISTING	<u>PROPOSI</u>
CONCRETE MONUMENT		
CAPPED IRON ROD	\odot	
PERMANENT CONTROL POINT	(o)	
TEMPORARY BENCHMARK		
ELECTRICAL PEDESTAL	EP	EP
CABLE PEDESTAL	CP	CP
TELEPHONE PEDESTAL	TP	TP
AIR CONDITIONING UNIT	Ad	AC
POWER POLE	\bigcirc	Ø
SERVICE POLE		Ø
LIGHT POLE	\bowtie	\boxtimes
GUY WIRE	××	<u> </u>
WHEEL STOP		
HANDICAP SYMBOL	E	Æ
SIGN		<u> </u>
FLOW ARROW		-∨►
STORM INLET		
STORM INLET W/ ROUND BOTTOM		
STORM MANHOLE		
STORM MITERED END SECTION		
GAS METER	G	G
WATER METER	W	W
VALVE	\bowtie	H
BACK FLOW PREVENTER	BFP	BFP
FIRE HYDRANT	Ç	•
WATER SPIGOT AIR RELEASE VALVE		0
SANITARY SEWER MANHOLE	S	S
CLEANOUT	●	•
CLEANOUT	CO	CO
FLUSHING SERVICE		\emptyset
FORCE MAIN SERVICE LATERAL BOX	M	
LIFT STATION		
GREASE TRAP MANHOLE	GT	©j)

FOR PERMIT PURPOSES ONLY

A S S C I A T E S
CONSULTING ENGINEERS, LLC.
CERT. OF AUTH. #30549
L394 CO. HWY 283 S. Blog #3 South Board Board Back Blog Bac

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY: JONATHAN E. NASH, P.E. ON: JULY 5, 2023
PRINTED COPIES OF THIS DOCUMENT ARE NO CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

SSQUITO STER PLAN

H WALTON MOSQ I DISTRICT MASTE 4 NORTH COUNTY HIGHWAY 393 SANTA ROSA BEACH WALTON COUNTY FLORIDA

COP DRAWN BY: CHECKED BY:

| REV. # DATE. BY: DESCRIPTION | DESCRIPTION

GENERAL NOTES (1 OF 2)

C1.1

GENERAL NOTES:

- THE EXACT LOCATION AND ELEVATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING SHALL BE PHYSICALLY VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS. THESE DRAWINGS DO NOT PURPORT TO SHOW IN COMPLETE DETAIL ALL EXISTING STRUCTURES, UTILITIES, OR PIPING. THE CONTRACTOR SHALL EXAMINE ALL AVAILABLE RECORDS AND MAKE ALL EXPLORATIONS AND EXCAVATIONS AS REQUIRED TO DETERMINE THE LOCATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING, WHENEVER NECESSARY. THE OWNER RESERVES THE RIGHT TO CHANGE LOCATION OF LINES TO AVOID CONFLICT WITH EXISTING STRUCTURES, UTILITIES, OR PIPING.
- THE CONTRACTOR SHALL CHECK PLANS FOR CONFLICTS AND DISCREPANCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER OR OWNER'S ENGINEER OF ANY CONFLICT BEFORE PERFORMING ANY WORK IN THE AFFECTED AREA.
- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE VARIOUS UTILITY COMPANIES IN ORDER TO PERMIT MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN ADVANCE OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES ABOVE OR BELOW GROUND THAT MAY OCCUR AS A RESULT OF WORK CALLED FOR IN THESE CONTRACT DOCUMENTS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LEARN, KNOW, AND COMPLY WITH THE REGULATIONS, ORDINANCES, PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND COMPLY WITH THE CONDITIONS OF THE VARIOUS PERMITS OF THE GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL SCHEDULE THE REQUIRED INSPECTIONS AND APPROVALS IN ACCORDANCE WITH REQUIREMENTS OF THE PERMIT CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE NECESSARY AGENCIES OF CONSTRUCTION COMMENCEMENT.
- ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO SHALL BE OF LATEST ISSUE AND SHALL BE CONSIDERED A PART OF THESE DOCUMENTS AS THOUGH INCLUDED.
- THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT SURVEYOR AND BE RESPONSIBLE FOR THE SETTING OF CONSTRUCTION STAKES TO MARK THE LOCATION, ALIGNMENT, ELEVATION. AND GRADE OF THE WORK. THE STAKES PROVIDED SHALL BE ADEQUATE IN NUMBER, POSITION, AND ELEVATION SO THAT THE PHYSICAL ITEM CAN BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS. THE CONSTRUCTION LAYOUT SURVEY SHALL MEET THE MINIMUM TECHNICAL STANDARDS FOR LAND SURVEYING IN THE STATE OF FLORIDA (CHAPTER 21HH-6, FLORIDA ADMINISTRATIVE CODE) AND SHALL BE PERFORMED BY A PERSON OF ADEQUATE EXPERTISE. FAILURE TO PERFORM THE CONSTRUCTION STAKEOUT IN ACCORDANCE WITH THE CONSTRUCTION PLANS MAY RESULT IN REMOVAL AND REPLACEMENT OF THE IMPROVEMENTS AT NO EXPENSE TO THE OWNER. CONSTRUCTION LAYOUT INFORMATION HAS BEEN PROVIDED IN THE FORM OF DIMENSIONS AND OFFSETS OBTAINED THROUGH COMPUTER GENERATION. THE INFORMATION IS ADEQUATE FOR THE CONSTRUCTION LAYOUT OF THE IMPROVEMENTS USING STANDARD SURVEYING CONSTRUCTION LAYOUT TECHNIQUES. IN NO CASE SHALL THE CONTRACTOR SCALE INFORMATION FORM THE PLANS OR ATTEMPT TO CONSTRUCT IMPROVEMENTS WITHOUT PERFORMING THE CONSTRUCTION LAYOUT IN ACCORDANCE WITH THE INFORMATION CONTAINED HEREIN.
- THE CONTRACTOR SHALL OBTAIN AND HAVE ONSITE ALL PERMITS PRIOR TO CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, F.D.E.P., F.D.O.T., AND THE LOCAL GOVERNMENT. THE CONTRACTOR SHALL OBTAIN ALL OTHER REQUIRED PERMITS.
- PRIOR TO COMMENCING CONSTRUCTION OR DEMOLITION/LAND CLEARING ACTIVITIES, CONTRACTOR SHALL INSTALL ANY REQUIRED SILT FENCING OR BALED HAY BARRIERS (F.D.O.T. INDEX 102) FOR SILT CONTROL. THERE WILL BE NO DIRECT PAYMENT FOR THIS WORK. COST SHALL BE INCLUDED IN OTHER ITEMS OF WORK. LOCATION SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED IN THE FIELD.
- 10. DEWATERING: SHOULD LOWERING OF GROUNDWATER BE NECESSARY FOR THE INSTALLATION OF CONCRETE STRUCTURES, WATER MAIN ETC., OR TO PREVENT LATERAL MOVEMENT OF MATERIAL UNDER CONCRETE ALREADY PLACED, SUCH LOWERING SHALL BE ACCOMPLISHED BY MEANS OF A WELL POINT SYSTEM OR OTHER APPROVED MEANS, AT CONTRACTOR'S EXPENSE. COMPREHENSIVE PLANS FOR DE-WATERING OPERATIONS, IF USED, SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO INSTALLATION. DISCHARGE OF GROUNDWATER TO SURFACE WATERS OF THE STATE REQUIRES A PERMIT UNDER F.A.C. 62-621.300(2). CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN ANALYSIS OF GROUND WATER IN ACCORDANCE WITH THE GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUND WATER FORM ANY NON-CONTAMINATED SITE ACTIVITY - TABLE 1, AND FILING APPROPRIATE NOTIFICATIONS TO THE FDEP INDUSTRIAL WASTEWATER DIVISION.
- 11. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION UNLESS OTHERWISE DIRECTED.
- 12. CONTRACTOR SHALL OBTAIN, IF AVAILABLE, AND REVIEW ALL AVAILABLE GEOTECHNICAL REPORTS PRODUCED FOR THE SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF NO GEOTECHNICAL REPORTS ARE AVAILABLE, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING SITE SOIL CONDITIONS PRIOR TO CONSTRUCTION.
- 13. CONTRACTOR IS RESPONSIBLE FOR PROVIDING SIGNED AND SEALED RECORD DRAWINGS SHOWING ALL IMPROVEMENTS CONSTRUCTED UNDER THIS CONTRACT. RECORD DRAWINGS SHALL INCLUDE BOTH ABOVE GROUND AND BURIED UTILITIES INCLUDING ANY EXISTING UTILITIES NOT SHOWN ON THESE PLANS BUT ENCOUNTERED DURING THE CONSTRUCTION PROCESS. RECORD DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR. CONTRACTOR SHALL CONTACT ENGINEER OF RECORD FOR SPECIFIC REQUIREMENTS.
- 14. CONTRACTOR IS RESPONSIBLE FOR CONTINUATION OF SERVICE TO OCCUPIED BUILDINGS DURING CONSTRUCTION AND REPAIR OR REPLACEMENT OF ANY EXISTING UTILITIES IMPACTED BY CONSTRUCTION.
- 15. IF WELLS ARE ENCOUNTERED ON SITE, THEY SHALL BE ABANDONED BY A FLORIDA CERTIFIED WELL DRILLER USING ABANDONMENT PROCEDURES AND PERMITTING PROCESS OF THE LOCAL WATER MANAGEMENT DISTRICT OR OTHER APPLICABLE REGULATORY AGENCY.
- 16. IF APPLICABLE, ANY WELLS PROPOSED ONSITE, I.E. IRRIGATION, GEOTHERMAL, ETC. SHALL BE PERMITTED APPROPRIATELY THROUGH THE LOCAL WATER MANAGEMENT DISTRICT, PERMITTING IS THE RESPONSIBILITY OF THE CONTRACTOR UNLESS OTHERWISE ARRANGED
- 17. CONTRACTOR SHALL CALL BEFORE DIGGING TO SUNSHINE STATE ONE CALL OF FLORIDA AT 800-432-4770.

HANDICAP ACCESSIBILITY:

HANDICAP RAMPS AND CROSSWALKS PER THE LATEST FLORIDA ACCESSIBILITY CODE, A.D.A. AND FDOT STANDARD INDEX #304 ARE REQUIRED AT ALL PEDESTRIAN CROSSING LOCATIONS

ARCHITECTURAL COORDINATION:

WHEN APPLICABLE, ARCHITECTURAL PLANS SHALL SUPERSEDE THESE PLANS WITH RESPECT TO ALL BUILDING DIMENSIONS AND BUILDING HARDSCAPE INTERFACE. IN CASE OF CONFLICT AND PRIOR TO CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR CONTACTING BOTH THE ENGINEER AND ARCHITECT IMMEDIATELY.

STRUCTURAL COORDINATION:

WHEN APPLICABLE, CONTRACTOR SHALL REFER TO THE CONSTRUCTION DETAILS AND SPECIFICATIONS OF THE APPLICABLE STRUCTURAL PLANS FOR ALL SITE RETAINING WALLS AND OTHER STRUCTURAL COMPONENTS.

SIGNAGE:

- PROJECT SIGNS SHALL MEET ALL APPLICABLE REQUIREMENTS BASED ON LOCAL SIGN ORDINANCE.
- 2. CONTRACTOR IS RESPONSIBLE FOR SIGN PERMITTING.

DEMOLITION:

- ALL EXISTING CONCRETE, ASPHALT, TREES, STUMPS, AND OTHER DELETERIOUS MATERIAL AS INDICATED ON THE PLANS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH THE FLORIDA LAWS.
- WHERE PAVEMENT IS TO BE REMOVED AND REPLACED, AS INDICATED ON THE PLANS OR DIRECTED IN THE FIELD, ALL EXISTING PARKINGS AND TRAFFIC LOOPS SHALL ALSO BE REPLACED. THERE WILL BE NO DIRECT PAYMENT FOR THIS WORK, COST SHALL BE INCLUDED IN RELATED ITEMS OF
- 3. ALL EXISTING PAVEMENT AND DRIVEWAY PAVEMENT TO BE REMOVED SHALL BE SAW CUT.
- 4. REPAIR ALL EXISTING DRIVEWAYS CROSSED BY WATER MAIN TO MATCH EXISTING CONSTRUCTION
- 5. CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT ABUTS.
- 6. ANY DISTURBED MAIL BOXES OR SIGNS MUST BE REINSTALLED TO EXISTING OR ACCEPTABLE CONDITION AT THE CONTRACTOR'S EXPENSE.

SEDIMENTATION AND EROSION CONTROL NOTES:

- CONTRACTOR SHALL STAGE AND TIME CONSTRUCTION TO MINIMIZE THE SIZE OF EXPOSED SOIL AREAS AND THE TIME BETWEEN EXPOSING THE SOIL AREA AND FINISHING THE SOIL AREA.
- AS SOON AS GRADING IS COMPLETE IN AN AREA, THE CONTRACTOR WILL STABILIZE THE SOIL. FOR LONG, NARROW AREAS, THE CONTRACTOR SHALL STABILIZE CONTINUOUSLY DURING GRADING OPERATIONS. ROUGH GRADED AREAS SHOULD BE STABILIZED WITH TEMPORARY EROSION CONTROL IF FINAL GRADING AND STABILIZATION WILL NOT BE PERFORMED WITHIN FIVE (5) DAYS. FAILURE TO STABILIZE EXPOSED SOIL AREAS IN A TIMELY MANNER AFTER GRADING MAY BE CONSIDERED A VIOLATION OF CHAPTERS 17-3, 17-2, AND/OR 17/25, FLORIDA ADMINISTRATIVE CODE, BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (F.D.E.P.) AND SUBJECT TO CORRECTIVE ACTION, PURSUANT TO SECTION 403.121-403.161 FLORIDA STATUTES.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING A TASK TO PROVIDE EROSION CONTROL UNLESS ANOTHER PARTY HAS BEEN PREVIOUSLY SPECIFIED AS RESPONSIBLE FOR THE EROSION CONTROL ASSOCIATED WITH THAT TASK. IN THE EVENT ANOTHER PARTY IS RESPONSIBLE FOR EROSION CONTROL, THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR COORDINATION WITH THE PARTY RESPONSIBLE. IN THE EVENT THAT DAMAGE TO THE CONSTRUCTED ITEM RESULTS ARE DUE TO LACK OF EROSION CONTROL, THE CONTRACTOR SHALL REPAIR OR REPLACE THE ITEM AT NO CHARGE TO THE OWNER.
- TEMPORARY EROSION CONTROL SHALL CONSIST OF TEMPORARY GRASS, TEMPORARY MULCH, TEMPORARY SOD, ARTIFICIAL COVERINGS, BALED HAY OR STRAW, SILT FENCES, AND TURBIDITY BARRIERS AS SHOWN ON THE CONSTRUCTION DRAWINGS AND IN ACCORDANCE WITH APPROPRIATE TECHNICAL SPECIFICATIONS. IF TECHNICAL SPECIFICATIONS ARE NOT PROVIDED, THEN TEMPORARY EROSION CONTROL SHALL BE IN ACCORDANCE WITH SECTION 104 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (F.D.O.T) STANDARD SPECIFICATIONS.
- PERMANENT CONTROL SHALL CONSIST OF SEED, SEED AND MULCH, HYDRO-SEEDING, SOD, AND/OR ARTIFICIAL COVERINGS AS SHOWN ON THE CONSTRUCTION DRAWINGS AND IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION SECTIONS 12 AND 13. IF TECHNICAL SPECIFICATIONS ARE NOT PROVIDED THEN PERMANENT EROSION CONTROL SHALL BE IN ACCORDANCE WITH SECTIONS 570 AND 575 OF THE F.D.O.T STANDARD SPECIFICATIONS. SEED PR GRASS TYPE SHALL MATCH EXISTING OR BE AS SPECIFIED BY OWNER UNLESS NOTED OTHERWISE.
- GRASS BY SEEDING SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF F.D.O.T. STANDARD SPECIFICATIONS. THIS SHALL BE USED ONLY IN AREAS SUBJECT TO LIGHT EROSION SUCH AS FLAT AREAS.
- GRASS BY HYDRO-SEEDING SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, 983 OF F.D.O.T. STANDARD SPECIFICATIONS. HYDRO-SEEDING MAY BE USED FOR FLAT AREAS AND SIDE SLOPES WHICH DO NOT EXCEED 4:1. DRAINAGE DITCHES OR LARGE SWALES MUST HAVE ADDITIONAL PROTECTION BESIDES HYDRO-SEEDING.
- GRASS AND MULCH SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF F.D.O.T. STANDARD SPECIFICATIONS. GRASS AND MULCH MAY BE USED IN ALL AREAS EXCEPT LARGE SWALES OR DITCHES. MULCH SHALL BE ANCHORED IN ACCORDANCE WITH SECTION 570.
- SOLID SOD SHALL BE IN ACCORDANCE WITH SECTIONS 104, 575, 981, 982, 983 OF F.D.O.T. STANDARD SPECIFICATIONS. SOD MAY BE USED IN ALL

- AREAS FOR SIDE SLOPES GREATER THAN OR EQUAL TO 2:1. SOD SHALL BE STAGGERED SO AS TO AVOID A CONTINUOUS SEAM. IN AREAS WITH SLOPES 4:1 OR STEEPER, EACH PIECE OF SOD SHALL BE PEGGED WITH SOD PEGS. IN DIFFICULT SOIL CONDITIONS WITH STEEP SLOPES, IT MAY BE NECESSARY TO COVER SOD WITH ARTIFICIAL COVERINGS SUCH AS JUTE MESH UNTIL SOD BECOMES ESTABLISHED.
- 10. TEMPORARY EROSION CONTROL BY ARTIFICIAL COVERINGS SHALL CONSIST OF STRAW BLANKETS, COCONUT FIBER BLANKETS, POLYESTER BLANKETS, JUTE MESH, AND DRAINAGE FABRICS. MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SEEDING SHALL BE INCLUDED IF MATERIAL REQUIRES VEGETATION TO FUNCTION PROPERLY
- 11. THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES, SILT FENCE, TURBIDITY BARRIER, OR AS SPECIFIED IN THE CONSTRUCTION DRAWINGS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS. WATERWAYS. AND WETLAND OR JURISDICTIONAL AREAS. IF, IN THE OPINION OF THE ENGINEER, AND/OR REGULATORY AUTHORITIES, EXCESSIVE QUANTITIES OF MATERIAL ARE TRANSPORTED OFF-SITE BY EROSION OR STORMWATER RUNOFF, THE CONTRACTOR SHALL IMPROVE CONDITIONS TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES. IN NO CASE SHALL CONSTRUCTION COMMENCE PRIOR TO INSTALLATION OF EROSION CONROL/SEDIMENTATION
- 12. CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON GROUND IN ADDITION TO COARSE AGGREGATE IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT SITE.
- 13. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AREA USING SPRINKLING IRRIGATION OR OTHER ACCEPTABLE METHODS.
- 14. ALL DISTURBED AREAS NOT PAVED, SODDED OR OTHERWISE LANDSCAPED SHALL BE SEEDED, FERTILIZED AND MULCHED PER FDOT SPECIFICATIONS, SECTION 570. SEEDING RATE AND MIX SHALL COMPLY WITH THE SEEDING RATE TABLE OFF DOT STANDARD INDEX 105.
- 15. CONTRACTOR SHALL SOD ALL SLOPES 4:1 AND STEEPER IMMEDIATELY AFTER CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 17. ALL EXCAVATED SOILS SHALL BE STOCKPILED IN LOCATION(S) INDICATED ON PLANS IF SHOWN. APPROPRIATE SEDIMENTATION AND EROSION CONTROLS SHALL BE INSTALLED AROUND THE STOCKPILE.

16. CONTRACTOR SHALL REFER TO DEMOLITION AND EROSION CONTROL MAP FOR LIMITS OF CLEARING, TREE REMOVAL, AND EROSION CONTROL.

- 18. THE CONTRACTOR SHALL PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY EROSION CONTROL FEATURES IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS SECTION 10, 12, AND 13 UNTIL THE PROJECT IS COMPLETED AND ACCEPTED. IF TECHNICAL SPECIFICATIONS ARE NOT PROVIDED, THEN MAINTENANCE SHALL BE IN ACCORDANCE WITH SECTION 104 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (F.D.O.T.) STANDARD SPECIFICATIONS.
- 19. SILT FENCES AND TURBIDITY BARRIERS SHALL BE CHECKED DAILY FOR EFFECTIVENESS, BREACHES, AND ROUTINE MAINTENANCE.
- 20. ALL DISTURBED AREAS TO BE PERMANENTLY GRASSED AND RETENTION AREAS TO BE SODDED.

PAVING, GRADING & EARTHWORK NOTES:

- 1. IN EXCAVATING STREETS AND DRIVEWAYS THAT HAVE BEEN SURFACED WITH SAND-CLAY, CLAY GRAVEL, OR OTHER BASE COURSE, SUCH BASE MATERIALS SHALL BE EITHER STOCKPILED AND KEPT SEPARATE FROM THE EARTH EXCAVATED OR THE CONTRACTOR SHALL, AT HIS EXPENSE, PROVIDE NEW BASE OF LIKE KIND AND EQUAL QUALITY.
- 2. CONTRACTOR MUST SALVAGE EXISTING TOP SOIL WITHIN PROJECT SIRE OR REPLACE AT HIS OWN EXPENSE. 3. ANY DEFICIENT IN THE QUANTITY OF THE MATERIAL FOR BACKFILLING THE TRENCHED, OR FOR FILLING DEPRESSIONS CAUSED BY SETTLEMENT, SHALL
- 4. CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. CLEAR AND GRUB SHALL CONSIST OF THE REMOVAL OF ALL DELETERIOUS MATERIAL INCLUDING TREES, ROOTS, TOPSOIL, ETC.
- 5. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE SEEDED, MULCHED, SODDED, STABILIZED, OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL, WITHIN FIVE (5) DAYS AFTER CONSTRUCTION.

BE SUPPLIED BY THE CONTRACTOR AT NO COST TO THE OWNER. THIS ALSO APPLIES TO BASE COURSE UNDER PAVED STREETS.

- 6. ORGANIC, UNSUITABLE SOILS BENEATH THE PAVED AREAS SHALL BE REMOVED AND REPLACED WITH CLEAN SAND MATERIAL OF WHICH NOT MORE THAN 15% BY DRY WEIGHT IS FINER THAN THE NUMBER 200 MESH SIEVE. FILL MATERIAL SHALL BE FREE OF ORGANICS, RUBBLE, CLAY, OR OTHER
- 7. IF NECESSARY, THE PAVEMENT SUBGRADE SHOULD BE STABILIZED TO AN LBR OF 40. MATERIAL FOR STABILIZATION SHALL BE AS CALLED OUT ON PLANS, OR OTHER MATERIAL APPROVED BY THE ENGINEER AND THE GEOTECHNICAL ENGINEER. COMPACTION OF THE SUBGRADE SHALL BE BY A HEAVY VIBRATORY ROLLER (MINIMUM STATIC WEIGHT OF FIVE TONS) WITH A MINIMUM OF 10 PASSES WITH A 20% OVERLAP BETWEEN PASSES. THE VIBRATORY ROLLER SHOULD ALSO BE EQUIPPED WITH A VARIABLE FREQUENCY CONTROL TO OPERATE AT THE RESONANT FREQUENCY OF THE SOILS.
- 8. ALL WASTE MATERIAL SHALL BE DISPOSED OF OFFSITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
- 9. PROPOSED SPOT ELEVATIONS REPRESENT FLOW LINE OF CURB & GUTTER OR FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
- 10. CONTRACTOR TO PROVIDE $\frac{1}{2}$ " TO 1" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND OTHER MATERIALS (BUILDINGS, OTHER POURED CONCRETE, ETC.) EXCEPT ASPHALT.
- 11. CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT ABUTS
- 12. TESTING REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE TESTING SCHEDULE CONTAINED WITHIN THESE PLANS. SELECTION AND CONTRACTING WITH THE TESTING FIRMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE
- 13. ACCEPTANCE TESTING FOR NEW PAVEMENT, IF APPLICABLE, SHALL CONSIST OF ONE PASS OF A STANDARD 15-FOOT ROLLING STRAIGHT EDGE OPERATED WHILE THE PAVEMENT IS STILL HOT. ALL DEFICIENCIES IN EXCESS OF $\frac{1}{12}$ INCH SHALL BE CORRECTED IN ACCORDANCE WITH F.D.O.T.
- 14. AT THE OPTION OF THE OWNER, THE CONTRACTOR SHALL FLOOD ALL NEW PAVEMENT SURFACES WITH WATER AND INSPECT FOR PONDING, ALL PONDED AREAS SHALL BE CORRECTED IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATION 330.

TRAFFIC, SIGNAGE & STRIPING NOTES:

- 1. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN ADEQUATE TRAFFIC CONTROL AND TO PROVIDE DETOURS AROUND CONSTRUCTION ACTIVITIES. UNLESS APPROVED BY THE OWNER, IN WRITING, NO STREET SHALL REMAIN CLOSED TO TRAFFIC OVERNIGHT. IN ADDITION, THE CONTRACTOR SHALL COOPERATE WITH LOCAL RESIDENTS IN GAINING ACCESS TO THEIR HOMES AND BUSINESSES DURING WORKING HOURS AND SHALL ASSIST AT ALL TIMES WHEN VEHICLES EXPERIENCE TROUBLE DUE TO CONSTRUCTION ACTIVITIES.
- 2. THE CONTRACTOR SHALL INSTALL ALL TRAFFIC CONTROL DEVICES REQUIRED FOR THE PROJECT IN ACCORDANCE WITH THE LATEST EDITION OF THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL.
- 3. ALL PAVEMENT MARKINGS SHALL BE MADE WITH REFLECTORIZED TRAFFIC PAINT IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATIONS 710 AND STANDARD INDEX NO. 117346, SHEETS 1-7.TRAFFIC STRIPING AND MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

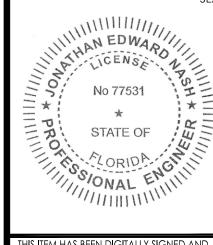
SITE DRAINAGE NOTES:

- 1. ALL OFF-SITE AND ON -SITE WORK INCLUDED CONSISTS OF BUT NOT LIMITED TO THE FOLLOWING:
- 1.1. EXCAVATION, BEDDING, FILTER MATERIAL AND BACKFILL FOR ALL STORM SEWER, SUBSURFACE DRAINS AND DRAINAGE STRUCTURES. COMPLETE INSTALLATION OF ALL STORM SEWERS, SUBSURFACE DRAINS, CATCH BASINS, JUNCTION BOXES, MANHOLES, ETC., INCLUDING ALL RELATED FITTINGS, JOINTS COVERS, GRATES, FRAMES, RUNGS, ETC.
- 2. ANY WORK WITHIN STREET OR HIGHWAY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE GOVERNMENTAL AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL ALL OF THESE GOVERNING AUTHORITIES HAVE BEEN NOTIFIED. POLYVINYL CHLORIDE (PVC), FOR PIPE UP TO AND INCLUDING TEN INCHES (10") IN DIAMETER, SHALL CONFORM TO ASTM D3034 SDR 35 WITH ELASTOMETRIC GASKET JOINTS CONFORMING TO ASTM D3212.

3. REINFORCED CONCRETE PIPE

- 3.1. FOR PIPE TWELVE INCHES (12") IN DIAMETER AND UP, SHALL CONFORM TO ASTM C-76, CLASS IV OR AASHTO M-170 WITH BELL AND SPIGOT OR TONGUE AND GROOVE COMPRESSION JOINT CONFORMING TO ASTM C-443.
- 4. MANHOLES, CATCH BASINS, ETC. SHALL BE SIZE AND TYPE INDICATED ON THE DRAWINGS AND SHALL BE CONSTRUCTED OF THE FOLLOWING:
- 4.1. REINFORCED PRECAST CONCRETE MANHOLE SECTIONS INCLUDING CONCENTRIC OR ECCENTRIC CONES AND GRADE RINGS SHALL BE 4000 PSI CONCRETE AND CONFORM TO ASTM C478 OR AASHTO M-199. SECTIONS SHALL BE COMPLETE WITH 3/4" ROUND CAST IN PLACE WROUGHT IRON STEPS.
- 5. BRICK SHALL BE SOUND, HARD BURNED THROUGHOUT AND OF UNIFORM SIZE AND QUALITY AND SHALL BE IN ACCORDANCE WITH ASTM C-32, GRADE MS OR MM.
- 6. CONCRETE MASONRY SHALL BE SOLID PRECAST SEGMENTAL CONCRETE MASONRY UNITS CONFORMING TO ASTM C-139.
- 7. IRON CASTINGS SHALL CONFORM TO ASTM A-48, CLASS 30.
- 7.1. BEARING SURFACES BETWEEN CAST IRON FRAMES, COVERS AND GRATES SHALL MACHINED, FITTED TOGETHER AND MATCH MARKED TO PREVENT ROCKING.
- 7.2. SYSTEM IDENTIFYING LETTER 2" HIGH SHALL BE STAMPED OR CAST INTO ALL COVERS SO THAT THEY MAY BE PLAINLY VISIBLE. CASTINGS SHALL BE MANUFACTURED BY EAST JORDAN IRON WORKS, INC. NEENAH FOUNDRY COMPANY, VULCAN FOUNDRY COMPANY OR EQUAL.
- 8. MANHOLE STEPS FOR BRICK OR CONCRETE MASONRY STRUCTURES SHALL BE CAST IRON ASPHALT COATED, NEENAH FOUNDRY COMPANY
- 9. CONCRETE AND MASONRY MATERIALS FOR CONSTRUCTION OF STORM DRAINAGE STRUCTURES SHALL CONSIST OF THE FOLLOWING:
- 9.1. PORTLAND CEMENT SHALL BE STANDARD BRAND OF PORTLAND CEMENT CONFORMING TO ASTM C-150, TYPE I OR II.
- 9.2. FINE AND COARSE AGGREGATES FOR CONCRETE SHALL BE PER ASTM C-33. AGGREGATES SHALL BE WELL GRADED FROM FINE TO COARSE WITHIN LIMITS SPECIFIED IN ASTM C-33. MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4". AGGREGATE FOR CEMENT SHALL BE CLEAN, SHARP SAND CONFORMING TO ASTM C-144. GRADE SAND FROM COARSE TO FINE WITH 100%%% PASSING NO. 8 SIEVE, AND NOT OVER 10 TO 30%%% PASSING NO. 50 SIEVE.
- 9.3. HYDRATED LIME SHALL COMPLY WITH ASTM 0-207, TYPE S.
- 9.4. WATER SHALL BE CLEAN AND FREE FROM DELETERIOUS MATERIALS.
- 9.5. ALL MATERIAL USED FOR CONCRETE AND THE DESIGN OF ALL CONCRETE MIXES SHALL CONFORM WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE (ACI 211.1-81). ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL DEVELOP A 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI.

- 9.6. JOINT SEALANT SHALL BE HOT LAID BITUMINOUS SEALER
- 9.7. RIPRAP SHALL BE SOUND, TOUGH DURABLE ROCK OR BROKEN CONCRETE AS APPROVED BY THE GEOTECHNICAL ENGINEER. RIPRAP SHALL BE AT LEAST EIGHT INCH (8") IN ONE DIMENSION AND SHALL HAVE A VOLUME OF NOT LESS THAN J $\frac{1}{3}$ CUBIC FOOT. SMALLER PIECES PERMITTED FOR
- 9.8. REINFORCING STEEL FOR CONCRETE SHALL BE INTERMEDIATE GRADE NEW BILLET STEEL CONFORMING TO ASTM A-615, GRADE 40. 9.9. WELDED WIRE MESH SHALL CONFORM TO ASTM DESIGNATION A 185 FOR SMOOTH WIRE AND ASTM A 497 FOR DEFORMED WIRE.
- 9.10. FORMS FOR FOUNDATIONS AND OTHER CONCRETE WORK SHALL BE WOOD. FORMS SHALL BE OF SUFFICIENT STRENGTH TO PREVENT DEFORMATION UNDER LOAD AND TIGHT ENOUGH TO PREVENT LEAKAGE. FOUNDATIONS MAY BE POURED AGAINST EARTH WHERE CONDITIONS
- 9.11. ALL REINFORCEMENT SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH ACI 318-77. WELDED WIRE MESH SHALL BE LAPPED 6-IINCHES AT ALL EDGES.
- 9.12. THE MIXING, PLACING, CURING AND FINISHING OF CONCRETE SHALL COMPLY WITH ACI 304 AND ACI 318. ALL EXPOSED SURFACES SHALL BE GIVEN A HARD STEEL TROWELED FINISH WITH NO TROWEL MARKS REMAINING. NO CEMENT SHALL BE DUSTED ON THE SURFACE. ALL CONCRETE SHALL BE CURED BY COASTING WITH A CLEAR CURING NO CEMENT CONFORMING TO ASTM C-304, OR BY KEEPING IT WET FOR AT LEAST SIX DAYS AFTER POURING. AFTER THE FORMS ARE STEPPED, ALL EXPOSED CONCRETE SURFACES SHALL BE POINTED AS NEEDED AND RUBBED TO A UNIFORM FINISH.
- 9.13. CONCRETE, UNLESS OTHERWISE NOTED, SHALL HAVE COMPRESSIVE STRENGTH AFTER 28 DAYS OF 3000 PSI MINIMUM. MIX SHALL BE SO PROPORTIONED TO PROVIDE A MINIMUM OF 517 POUNDS OF CEMENT PER CUBIC YARD.
- 9.14. CONCRETE FILL BELOW GRADE FOR PIPE CRADLES ETC. MAY BE 2500 PSI AT 28 DAYS.
- 9.15. CONCRETE, WHERE EXPOSED TO THE WEATHER SHALL BE AIR ENTRAINED. AIR ENTRAINMENT SHALL BE ACCOMPLISHED BY THE USE OF ADDITIVES CONFORMING TO ASTM C-260. AIR CONTENT SHALL BE 6%%% + 1%%%. ADDITIVE SHALL BE USED STRICTLY IN ACCORDANCE WITH MANUFACTURERS PRINTED DIRECTIONS.
- 9.16. READY-MIX CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-94.
- 9.17. CEMENT MORTAR SHALL BE AS SPECIFIED HEREINAFTER. USE METHODS OF MIXING MORTAR MATERIALS CAN BE CONTROLLED AND ACCURATELY MAINTAINED DURING WORK PROGRESS. MORTAR SHALL NOT BE MIXED IN GREATER QUANTITIES THAN SATISFACTORY WORKABILITY, RETEMPERING OF MORTAR IS NOT PERMITTED.
- 9.18. MORTAR FOR LAYING BRICK OR CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C-270, TYPE M, AVERAGE COMPRESSIVE STRENGTH 2500 AT 28 DAYS. MORTAR MIX SHALL BE PROPORTIONED BY VOLUME. MORTAR FOR PRICING SHALL CONSIST OF ONE PART PORTLAND CEMENT AND TWO PARTS SAND.
- 9.19. MORTAR FOR GROUTING OF RIPRAP SHALL CONSIST OF ONE PART PORTLAND CEMENT AND THREE PARTS SAND.



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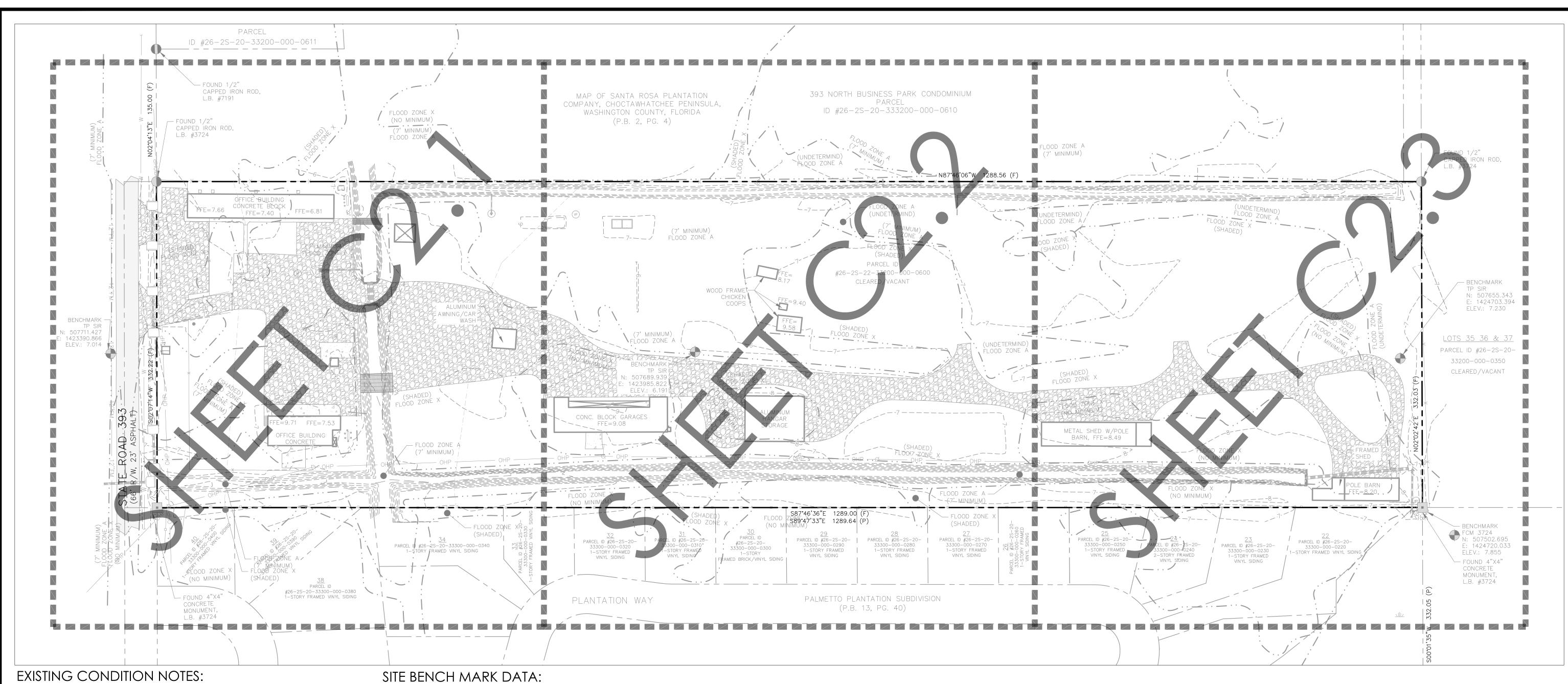
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GENERAL NOTES

(2 OF 2)

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FOR PERMIT PURPOSES ONLY



- 1. THE EXISTING CONDITIONS SHOWN HEREIN REFLECT AS-BUILT CONDITIONS AS COLLECTED BY THE CURRENT SURVEY AND ORIGINAL CONSTRUCTION DOCUMENTATION. SOURCES FOR THE EXISTING CONDITIONS SHOWN INCLUDE:
- A. THE SURVEY BY GUSTIN, COTHERN, & TUCKER, INC., DATED DECEMBER 6, 2022.
- 2. BEARINGS SHOWN HEREON ARE REFERENCED TO FLORIDA STATE PLANE COORDINATES (0903), NAVD 1983, U.S. SURVEY FEET.
- 3. VERTICAL DATUM SHOWN HEREON IS REFERENCED TO NAVD 1988.
- NO ATTEMPT HAS BEEN MADE TO LOCATE OR DETERMINE UNDERGROUND UTILITIES, UTILITY LINES, FOUNDATIONS, OR OTHER UNDERGROUND STRUCTURES, EXCEPT AS SHOWN. ABOVEGROUND AND VISIBLE EVIDENCE OF UTILITIES THAT WERE DISCOVERED DURING THE SURVEY ARE SHOWN HEREON.
- 5. CONTRACTOR SHALL FIELD VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

ONSITE SOILS LEGEND:

map unit symbol	MAP UNIT NAME	HYDROLOGIC SOIL GROUP
27	RUTLEGE FINE SAND, 0 TO 2 PERCENT SLOPES	B/D
57	HURRICANE SAND, 0 TO 5 PERCENT SLOPES	С
63	PICKNEY SAND, DEPRESSIONAL	D

LEGAL DESCRIPTION:

AS PROVIDED:

OFFICIAL RECORDS BOOK 196, PAGE 481.

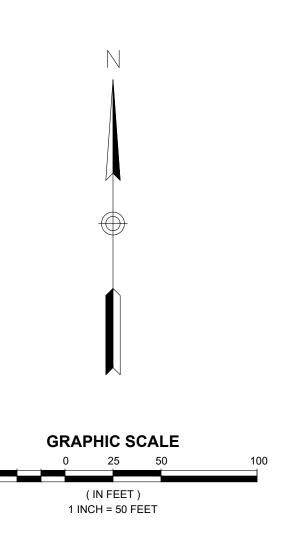
LOT #60, IN SECTION 26, TOWNSHIP 2 SOUTH, RANGE 20 WEST (TEN ACRES MORE OR LESS) ACCORDING TO THE PLAT OF SANTA ROSA PLANTATION COMPANY A COPY OF WHICH IS ON FILE IN THE OFFICE OF THE CLERK OF THE CIRCUIT COURT OF WALTON COUNTY, FLORIDA.

FLOOD ZONE NOTE:

FLOOD NOTE: THIS PARCEL LIES IN FLOOD ZONE X (NO MINIMUM), FLOOD ZONE X (SHADED - 2% ANNUAL CHANCE FLOOD - NO MINIMUM), A (UNDETERMINED), AND FLOOD ZONE AE (7' BASE FLOOD ELEVATION) AS DETERMINED BY SCALE FROM FEMA PANEL #12131C0563H, DATED 12/30/2020, AND FURNISHED BY FEMA NATIONAL FLOOD HAZARD LAYER ONLINE GEOSPATIAL DATABASE.

1. BEARINGS WERE HELD USING FLORIDA STATE PLANE COORDINATES (0903) NAVD 1983, ELEVATIONS WERE DETERMINED USING NAVD 1988.





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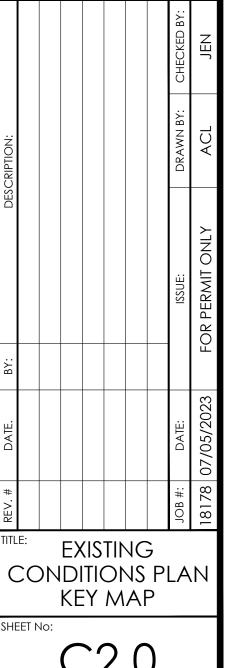
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* THAN EDWARD

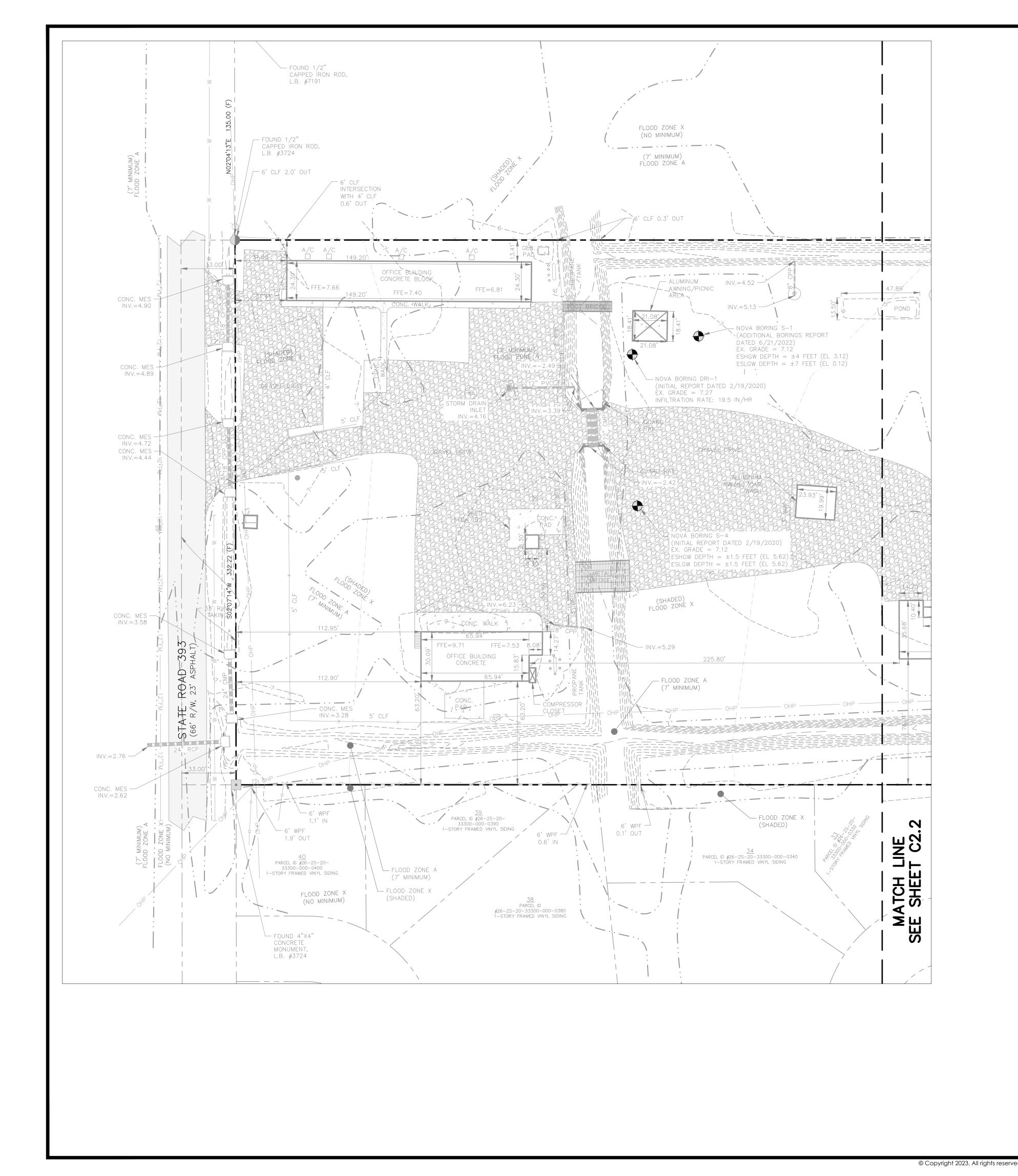
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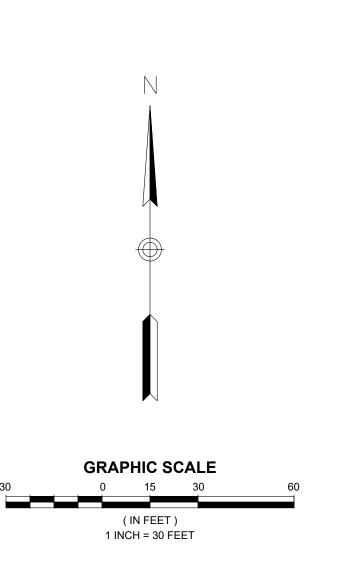
SOUTH WALTON PLANS FOR SOUTH WALTON MOSQUITO ONTROL DISTRICT MASTER PLASANTA ROSA BEACH SANTA ROSA BEACH WALTON COUNTY, FLORIDA WALTON COUNTY, FLORIDA WALTON COUNTY, FLORIDA WALTON COUNTY, FLORIDA WALTON COUNTY, FLORIDA



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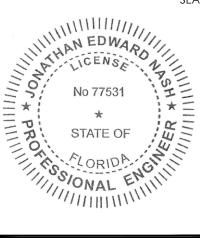


& A S S C C A T E S CONSULTING ENGINEERS, LLC.

CONSULTING ENGINEERS, LLC.

CERT. OF AUTH. #30549.

1394 CO. Hwy 283 8, Ridg. #3 Sorting Boach Ft. 32459.



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LTON MOSQUITO
STRICT MASTER PLA
COUNTY HIGHWAY 393
TA ROSA BEACH

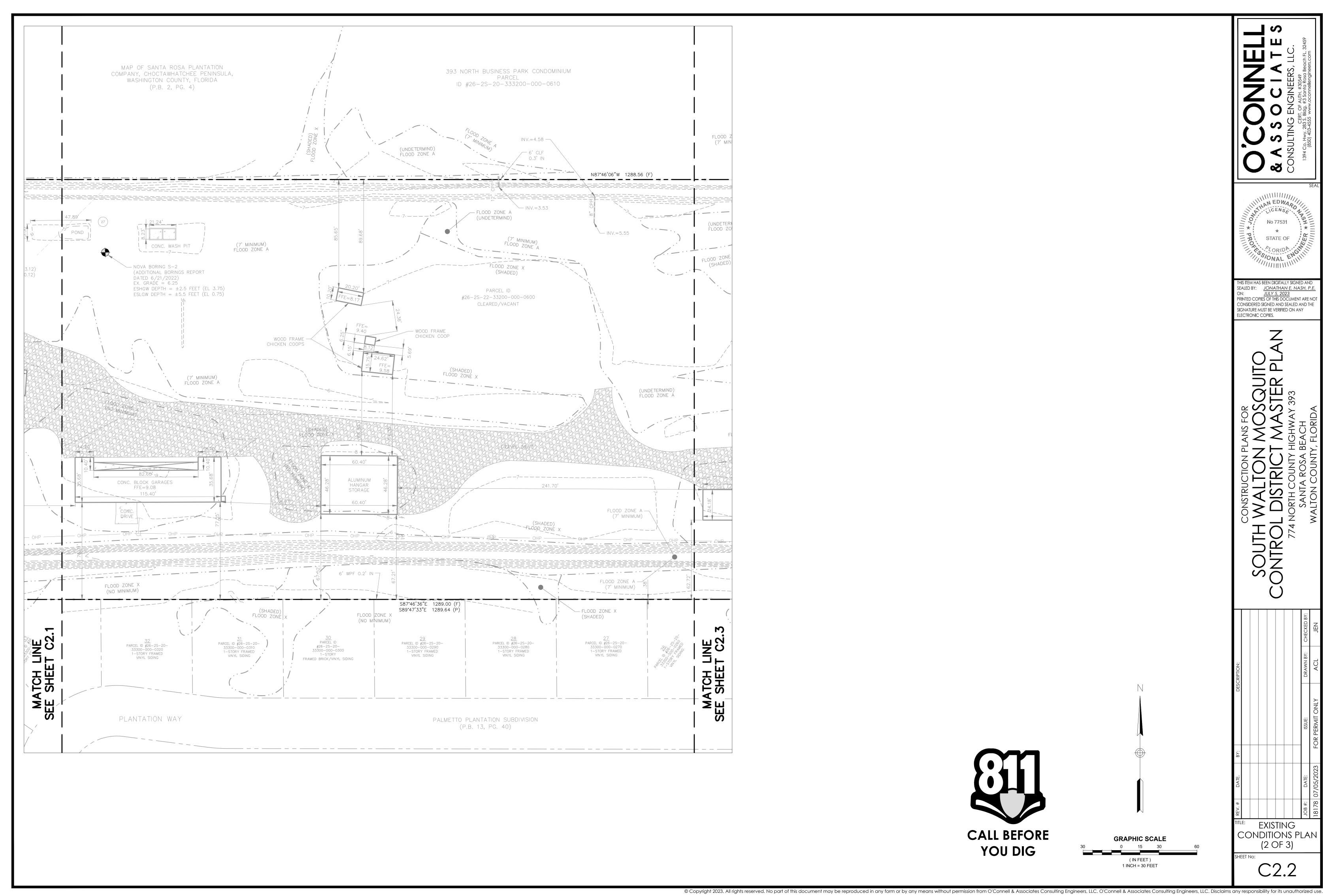
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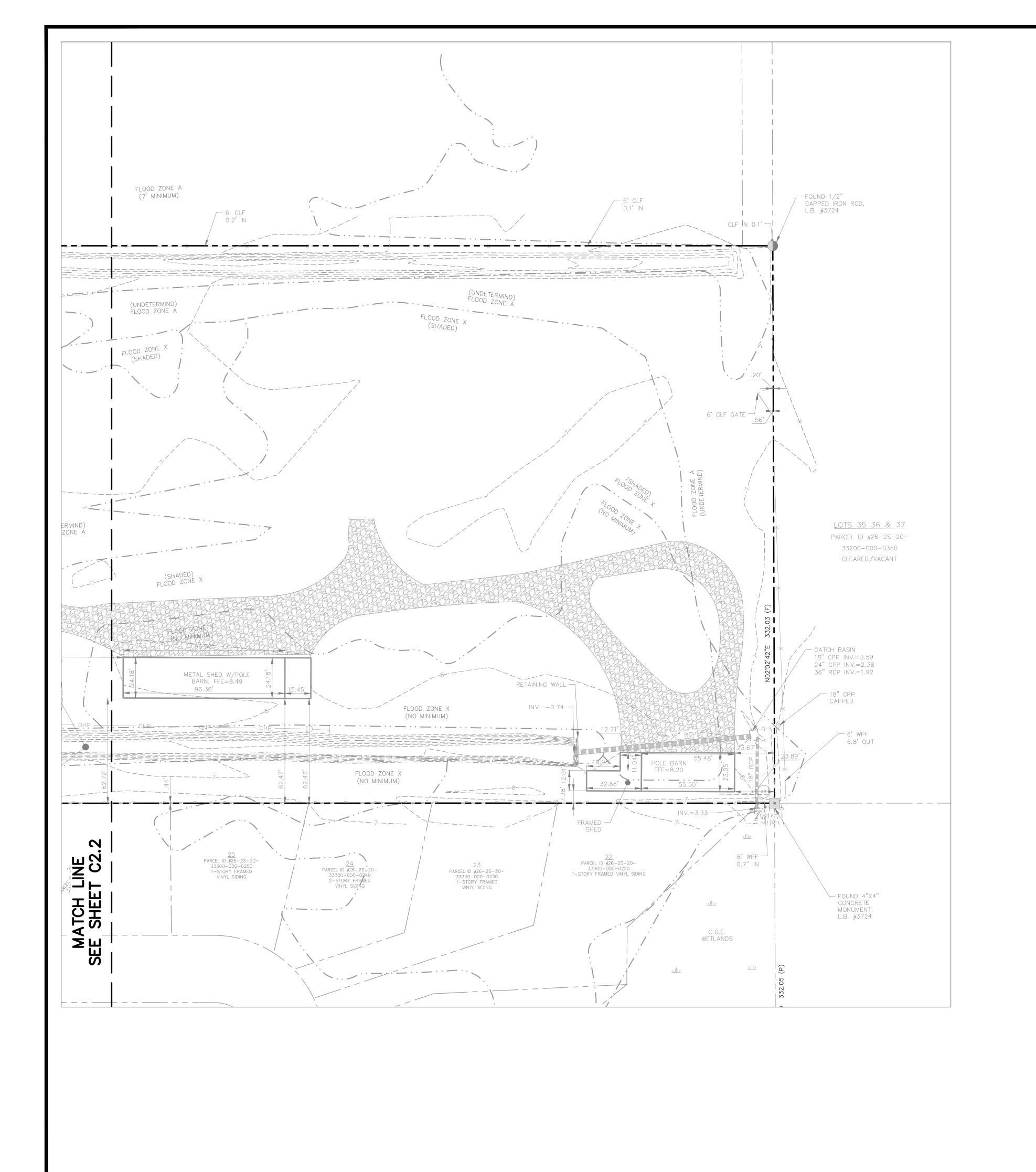
EXISTING

CONDITIONS PLAN

(1 OF 3)

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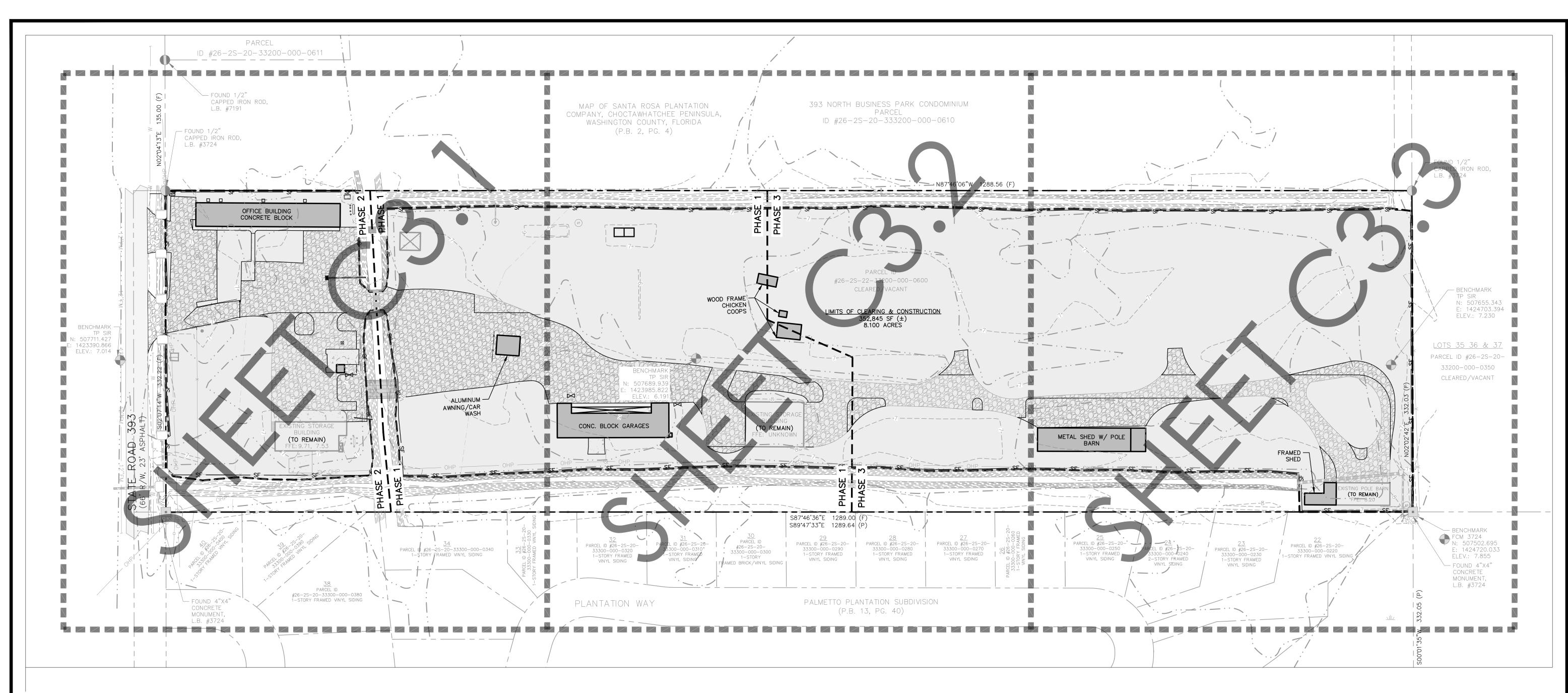




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EXISTING CONDITIONS PLAN (3 OF 3)



DEMOLITION & EROSION CONTROL NOTES:

- . CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES PRIOR TO DEMOLITION OR GRADING
- ACTIVITIES ON SITE. SEE EROSION CONTROL DETAIL SHEET FOR DETAILS.
- . CONTRACTOR SHALL PLACE STRUCTURAL BMP'S ANYWHERE THAT WATER IS LIKELY TO ESCAPE THE CONSTRUCTION LIMITS. HAY BALES OR MULCH BERMS SHALL BE PLACED IN CONCENTRATED FLOW AREAS LESS THAN 1.0 ACRE DRAINAGE AREA, AND #4 STONE FILTER BARRIERS SHOULD BE PLACED WHERE DRAINAGE AREA EXCEEDS 1 ACRE.
- 3. EROSION CONTROL MEASURES SHALL BE MAINTAINED ON SITE FOR THE DURATION OF CONSTRUCTION. REPAIR AND / OR REPLACE AS NECESSARY.
- 4. ALL EXISTING BUILDING MATERIALS, CONCRETE, ASPHALT, TREES, STUMPS, AND OTHER DELETERIOUS MATERIAL AS INDICATED ON THE PLANS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH FLORIDA LAWS.
- 5. THE CONTRACTOR SHALL CLEAR ALL AREAS WITHIN THE CONSTRUCTION LIMITS INCLUDING UNDERGROUND UTILITIES WHETHER DEPICTED HEREON OR NOT. ALL UTILITIES AND OTHER INFRASTRUCTURE TO BE DEMOLISHED SHALL BE REVIEWED AND AGREED TO BY THE OWNER, THE ENGINEER OF RECORD, AND THE RESPECTIVE UTILITY COMPANY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND ACCOUNT FOR IN BID ALL REQUIRED CLEARING & DEMOLITION NECESSARY TO ACCOMPLISH THIS TASK.
- EROSION CONTROL MEASURES WILL HAVE TO BE RELOCATED AFTER DEMOLITION AND PRIOR TO NEW CONSTRUCTION IN AREAS THAT REQUIRE NEW CONSTRUCTION ON EXISTING AREAS TO BE DEMOLISHED.
- 7. ALL DEMOLISHED ASPHALT, CONCRETE, PIPE, STRUCTURES AND OTHER DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF IN ACCORDANCE WITH FLORIDA LAWS.

LIMITS OF CLEARING & CONSTRUCTION

THE LIMITS OF CLEARING & CONSTRUCTION, AS SHOWN ON THIS SHEET, ARE APPROXIMATELY 352,845 SQUARE FEET (8.100 ACRES).

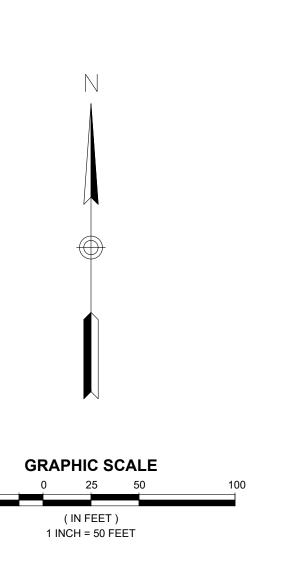
STAGING & PARKING NOTE:

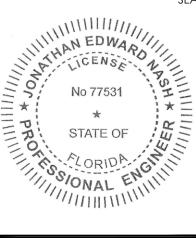
ALL CONSTRUCTION EQUIPMENT, PARKING AND MATERIALS MUST BE LOCATED ONSITE WITHIN THE LIMITS OF CONSTRUCTION. NO AREAS OUTSIDE THE LIMITS OF CONSTRUCTION SHALL BE USED, FOR ANY REASON, WITHOUT WRITTEN PERMISSION FROM THE PROPERTY OWNER.

PHASING NOTES:

1. PHASE 2 CLEARING AND DEMOLITION SHALL NOT COMMENCE PRIOR TO THE COMPLETION OF ALL PHASE 1 IMPROVEMENTS.







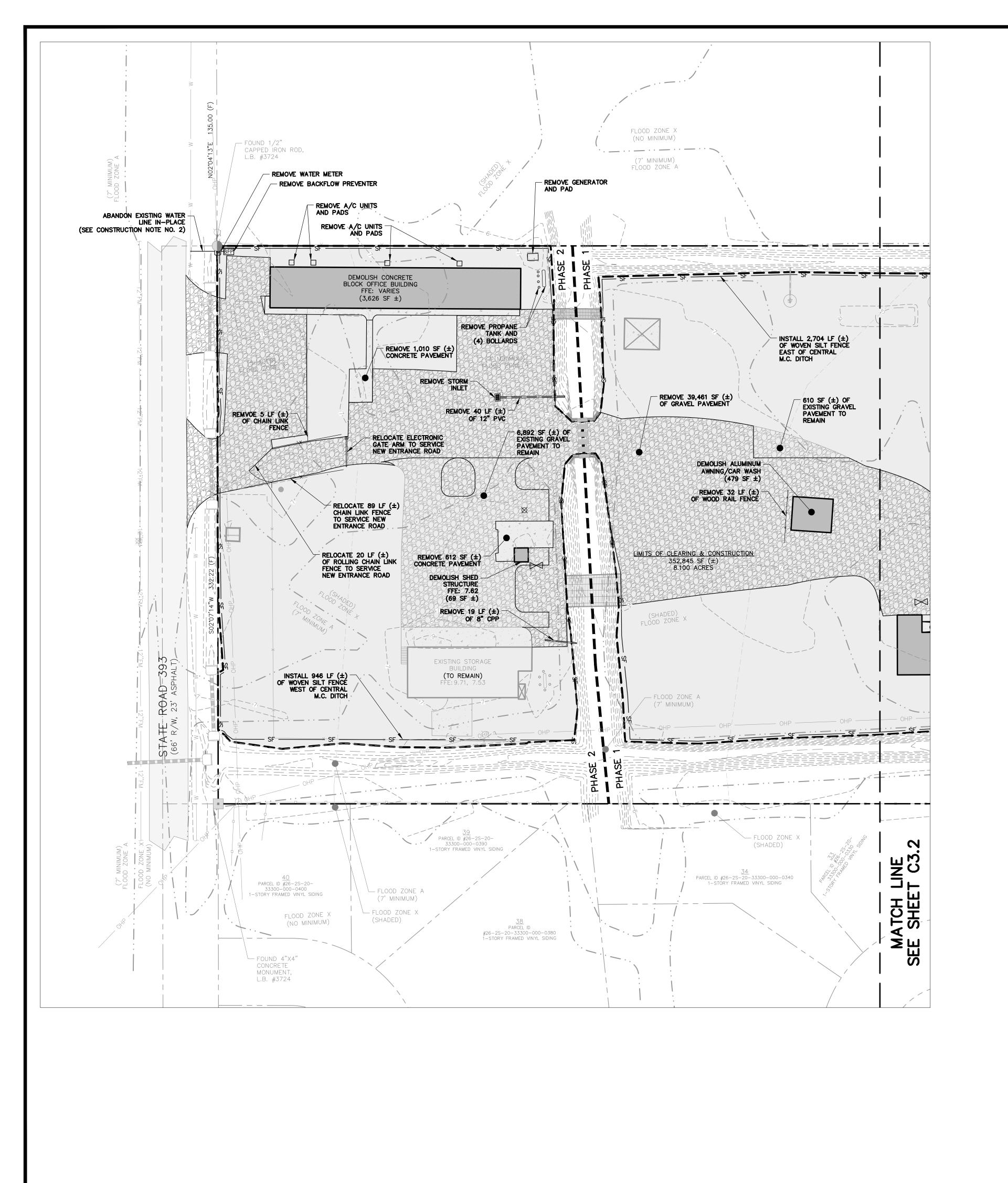
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DEMOLITION PLAN

KEY MAP

C3.0

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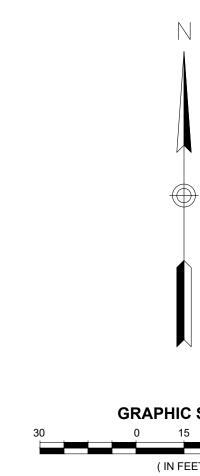
PHASING NOTES:

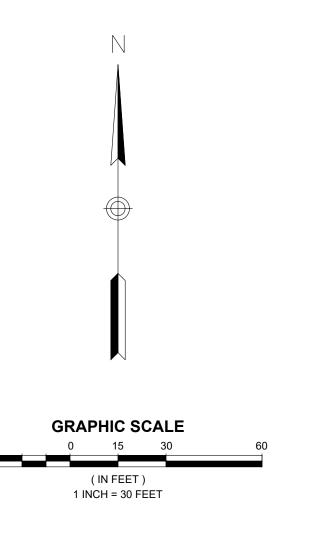
1. PHASE 2 CLEARING AND DEMOLITION SHALL NOT COMMENCE PRIOR TO THE COMPLETION OF ALL PHASE 1 IMPROVEMENTS.

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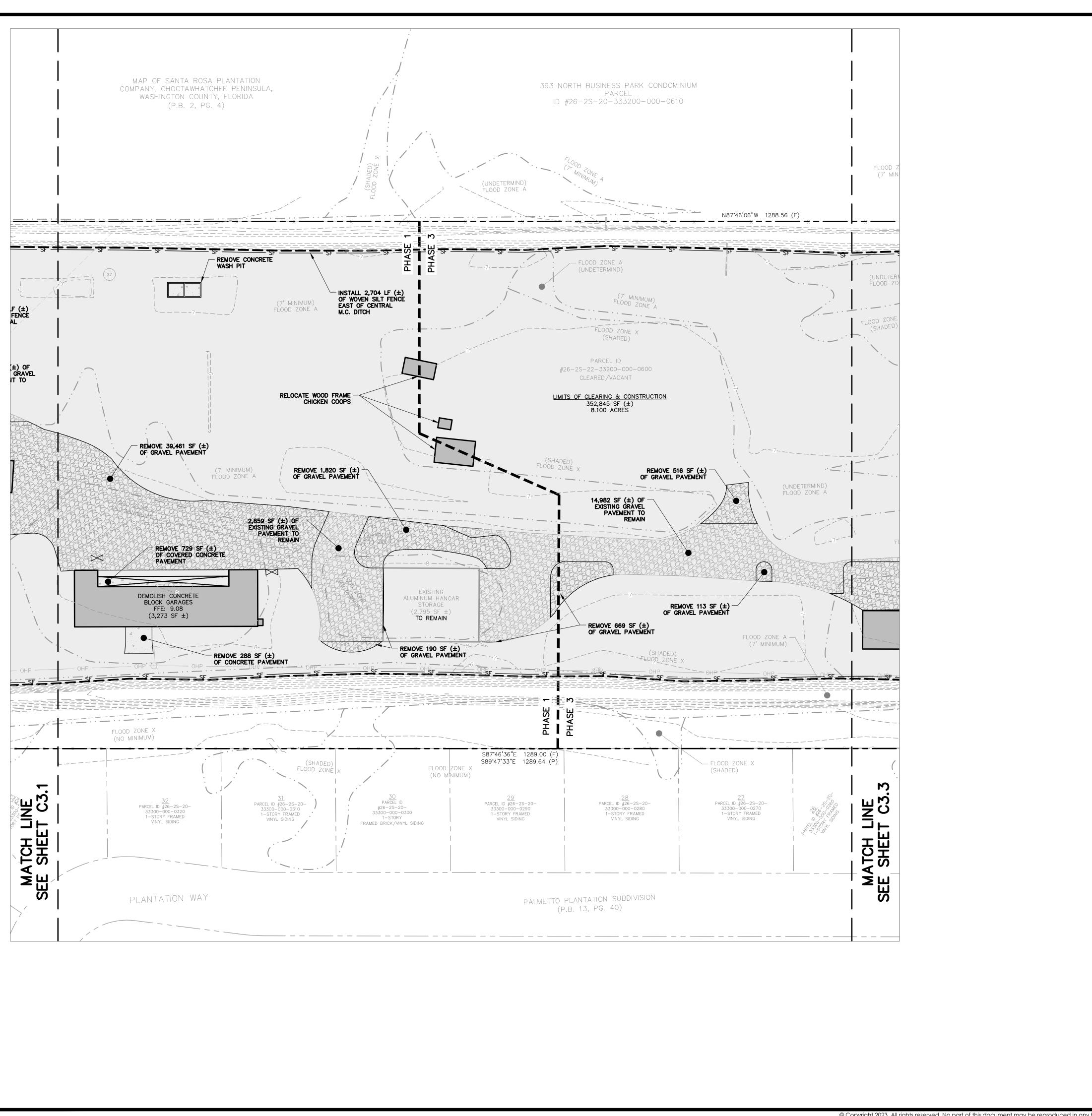




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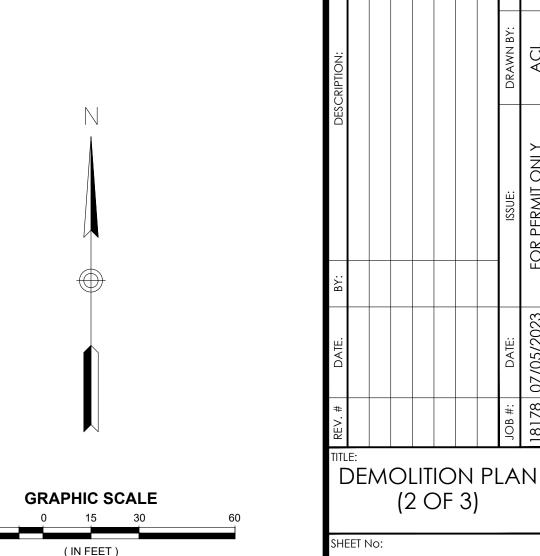
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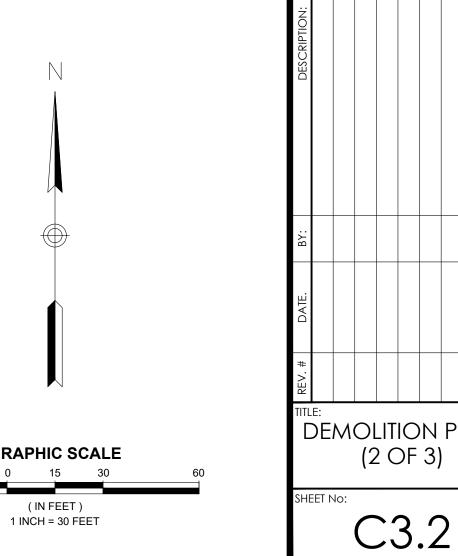
1. PHASE 2 CLEARING AND DEMOLITION SHALL NOT COMMENCE PRIOR TO THE COMPLETION OF ALL PHASE 1 IMPROVEMENTS.

STATE OF

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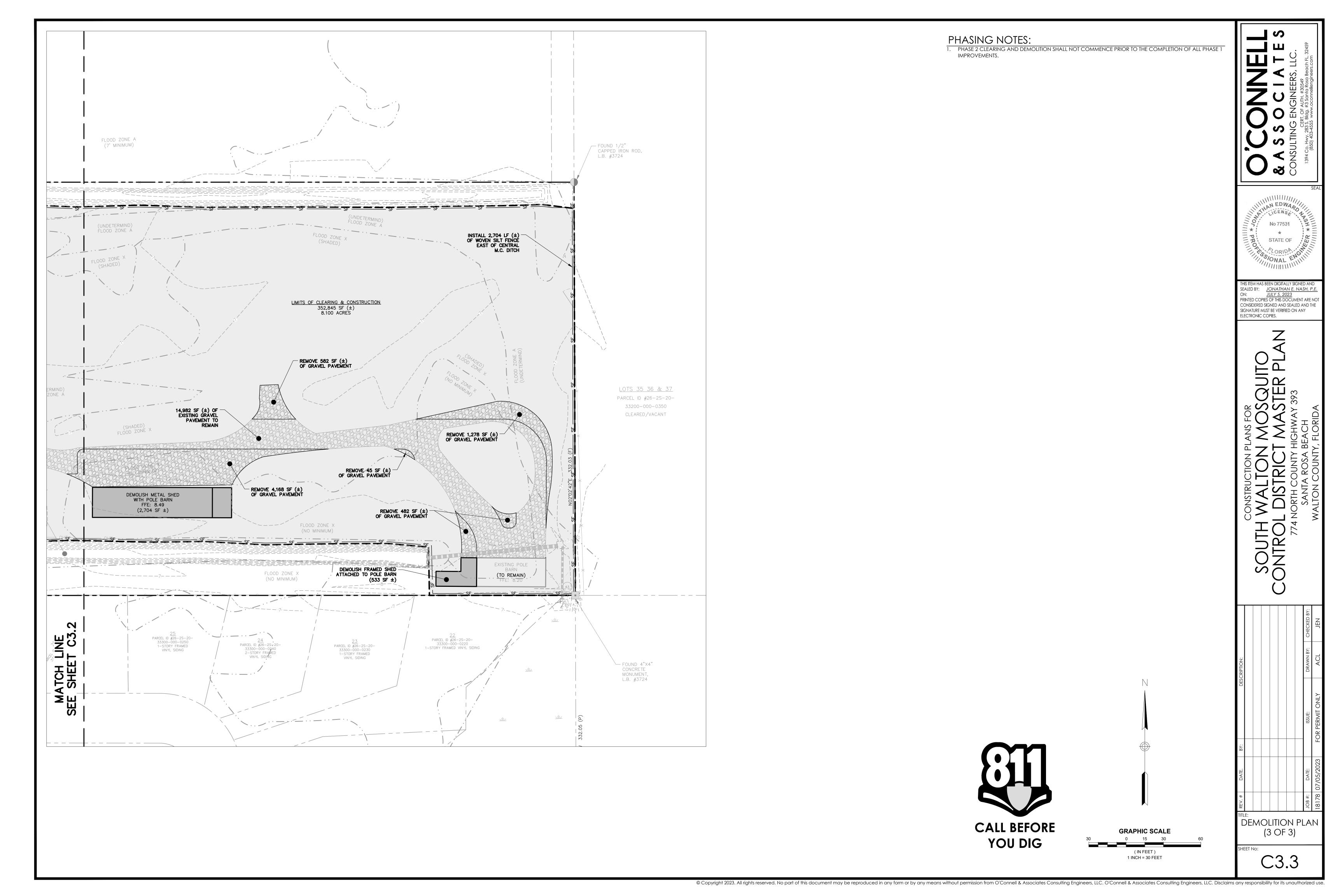
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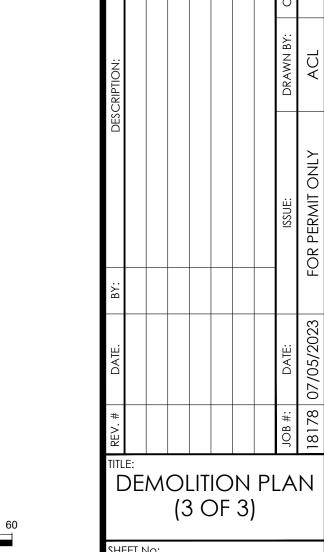


PHASING NOTES:

1. PHASE 2 CLEARING AND DEMOLITION SHALL NOT COMMENCE PRIOR TO THE COMPLETION OF ALL PHASE 1 IMPROVEMENTS.

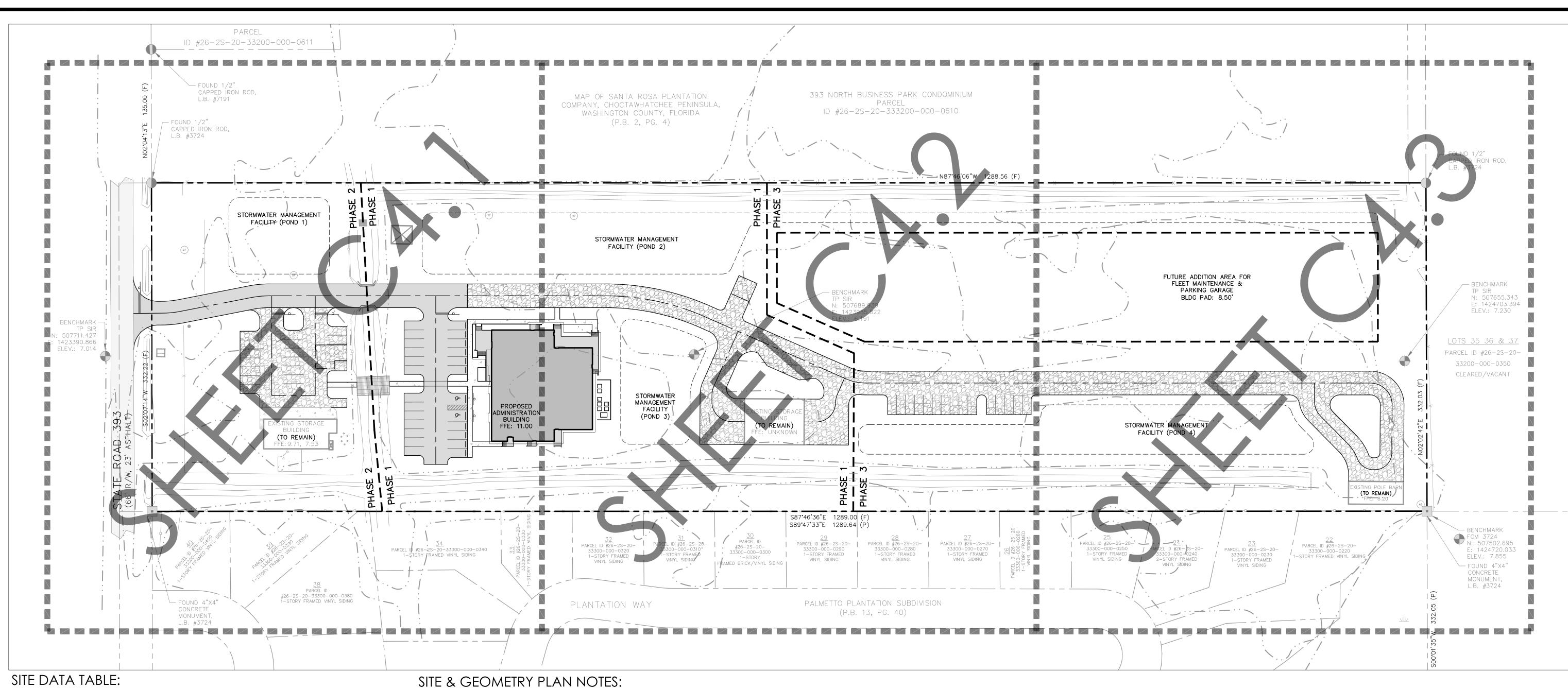
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C3.3





GENERAL	DATA

PARCEL IDENTIFICATION NUMBER(S): CURRENT LAND USE: PROPOSED LAND USE: FUTURE LAND USE: ZONING:

26-2\$-20-33200-000-0600 INSTITUTIONAL INSTITUTIONAL PUBLIC FACILITIES & INSTITUTIONAL INSTITUTIONAL

FLUM CATEGORY ADJOINING PROPERTY DATA: LAND USE NORTH LIGHT INDUSTRIAL INDUSTRIAL & EXTRACTIVE USES CONSERVATION RESIDENTIAL SOUTH RESIDENTIAL EAST VACANT PUBLIC FACILITIES & INSTITUTIONAL COMMERCIAL RESIDENTIAL

SOUTH

EAST

WEST

DEVELOPMENT DATA PROJECT AREA: 8.100 ACRES TOTAL PROPOSED WETLANDS IMPACTS: N/A TOTAL IMPERVIOUS AREA (PROPOSED): 3.546 ACRES 11,986 SF (10,284 SF HEATED) TOTAL BUILDING SQUARE FOOTAGE: PROPOSED **ALLOWABLE** 33'-1/2" BUILDING HEIGHT: 50' 0'' IMPERVIOUS SURFACE RATIO (ISR) .85 (3.558 / 8.144) = 0..437FLOOR AREA RATIO (FAR) (11,986)/(354,758) = 0.0342.00 REQUIRED PROVIDED BUILDING SETBACKS: 25' (MIN) FRONT 25' SIDE 10' 10' (MIN) 20' 20' (MIN) REAR REQUIRED PROVIDED LANDSCAPE BUFFERS: NORTH SEE LANDSCAPE PLAN

N/A

- CONTRACTORS SHALL MAINTAIN PUBLIC ACCESS AT ALL TIMES ALONG ALL WALTON COUNTY AND FEDERAL RIGHT-OF-WAYS.
- 2. NO PARKING OR UNLOADING OF MATERIALS SHALL OCCUR WITHIN PUBLIC RIGHT-OF-WAY. 3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO STRUCTURES WITHIN THE PUBLIC RIGHT-OF-WAY AND SHALL REPAIR ANY DAMAGE CAUSED BY THE CONSTRUCTION ACTIVITIES TO
- 4. CONTRACTOR SHALL NOT RELOCATE ANY SIDEWALK OR MULTI-USE PATH WITHIN THE COUNTY RIGHT-OF-WAY WITHOUT WRITTEN PERMISSION FROM THE WALTON COUNTY ENGINEER.
- 5. DISTANCES AND RADII, WHERE APPLICABLE, ARE MEASURED FROM FACE OF CURB OR EDGE OF PAVEMENT WHERE NO CURB EXISTS.
- 6. ALL STREETS/DRIVEWAYS WITHIN THE PROJECT LIMITS ARE PRIVATE STREETS/DRIVEWAYS.

CONSTRUCTION PHASING NOTE:

THE PUBLIC RIGHT-OF-WAY AT THE CONTRACTOR'S EXPENSE.

THE PHASE LINE SHOWN HEREIN IS PROVIDED TO ALLOW THE OWNER TO PLACE THE PHASE 1 BUILDINGS AND FACILITIES IN SERVICE PRIOR TO COMPLETING PAVING, HARDSCAPE AND OTHER INFRASTRUCTURE FOR THE BUILDINGS IN PHASE 2. ALL SANITARY SEWER, STORM SEWER AND WATER UTILITIES SHOWN HEREIN SHALL BE INSTALLED AS PART OF PHASE 1.

FLOOD ZONE NOTE:

FLOOD NOTE: THIS PARCEL LIES IN FLOOD ZONE X (NO MINIMUM), FLOOD ZONE X (SHADED - 2% ANNUAL CHANCE FLOOD - NO MINIMUM), A (UNDETERMINED), AND FLOOD ZONE AE (7' BASE FLOOD ELEVATION) AS DETERMINED BY SCALE FROM FEMA PANEL #12131C0563H, DATED 12/30/2020, AND FURNISHED BY FEMA NATIONAL FLOOD HAZARD LAYER ONLINE GEOSPATIAL DATABASE.

SITE BENCH MARK DATA:

. BEARINGS WERE HELD USING FLORIDA STATE PLANE COORDINATES (0903) NAVD 1983, ELEVATIONS WERE DETERMINED USING NAVD 1988.

OFF-STREET PARKING REQUIREMENTS:

SWMCD ADMINISTRATION BUILDING

OFFICE:

TOTAL SITE REQUIRED:

PARKING PROVIDED

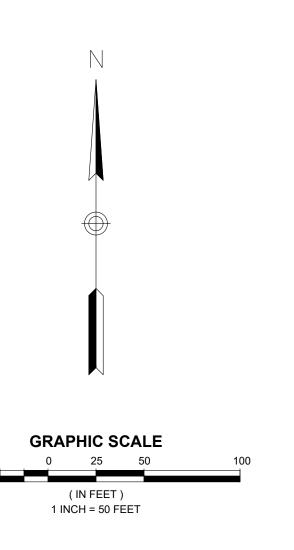
SEE LANDSCAPE PLAN

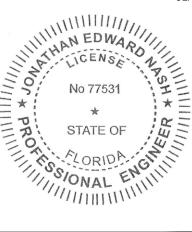
SEE LANDSCAPE PLAN

SEE LANDSCAPE PLAN

10,284 SF X 1 SPACE/250 SF = 42 SPACES 42 SPACES (1 ADA SPACE 58 (INCLUDES 2 ADA SPACES)



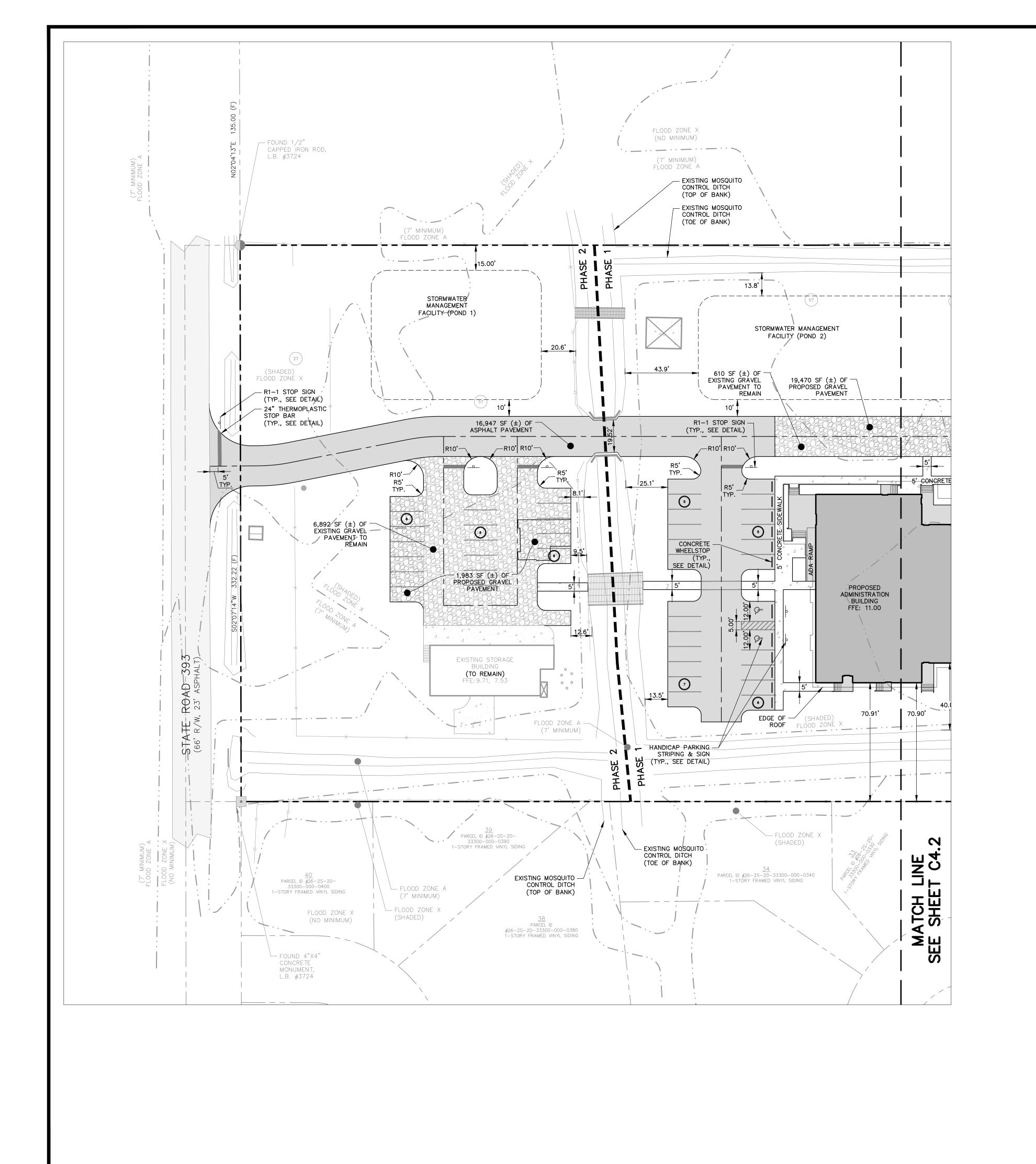




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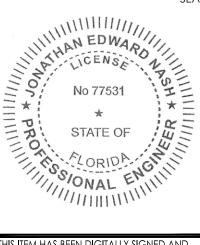
SITE PLAN KEY MAP

C4.0





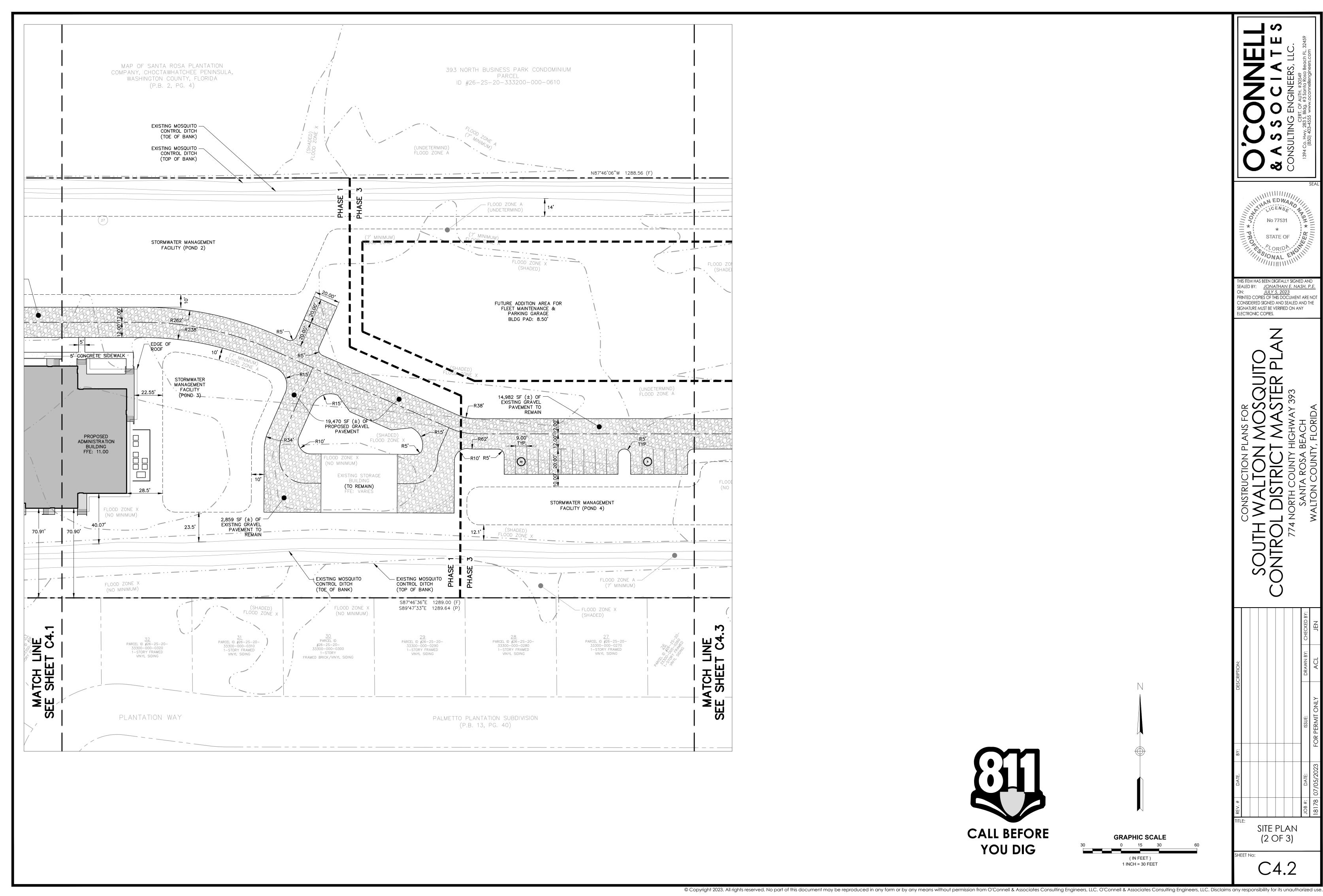


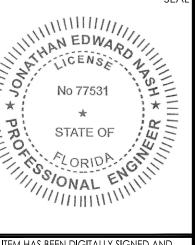


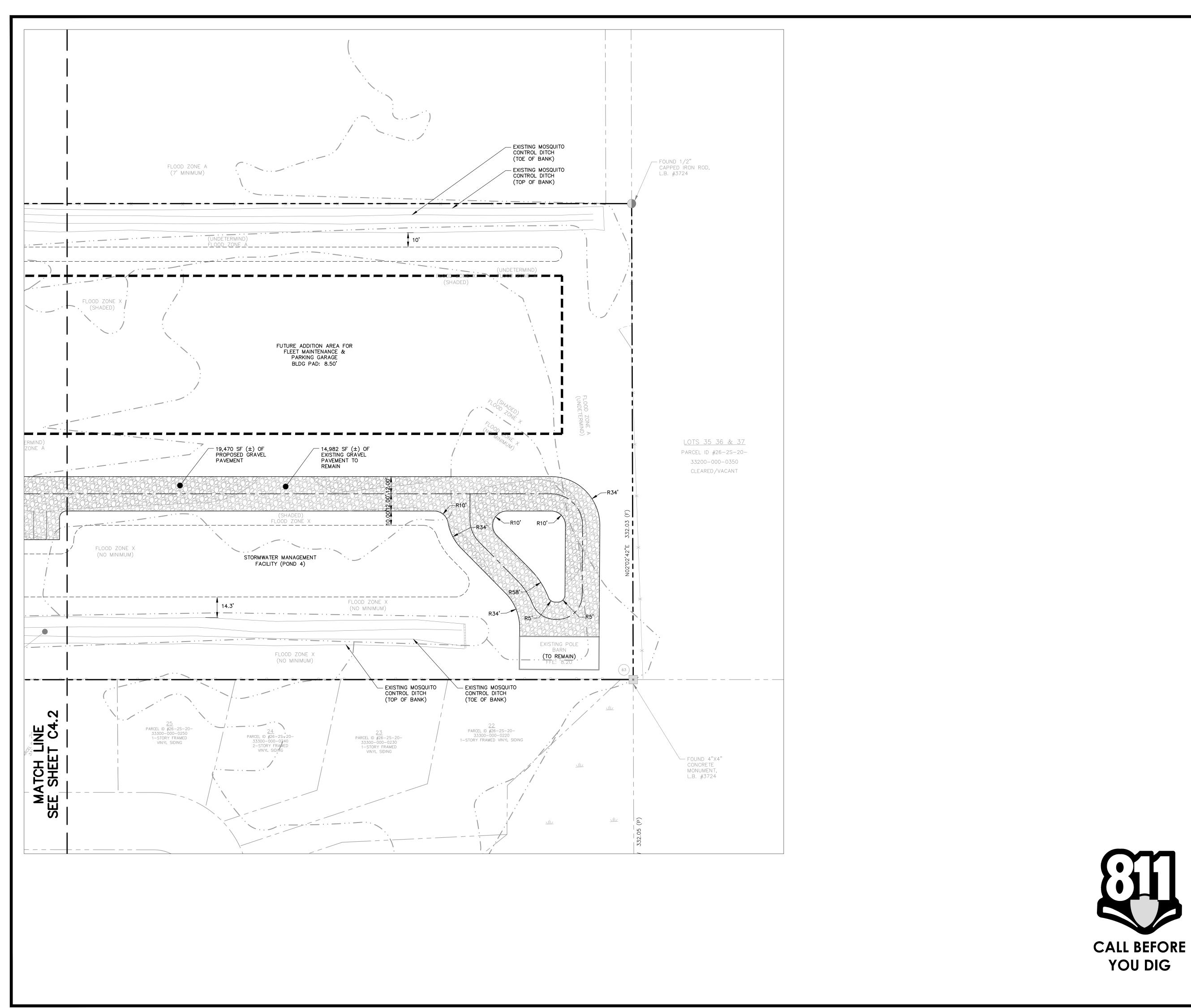
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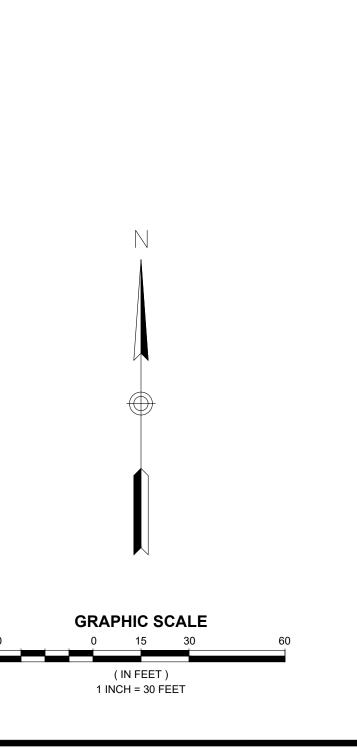
SITE PLAN (1 OF 3)

C4.1



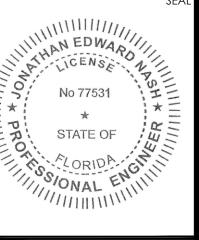






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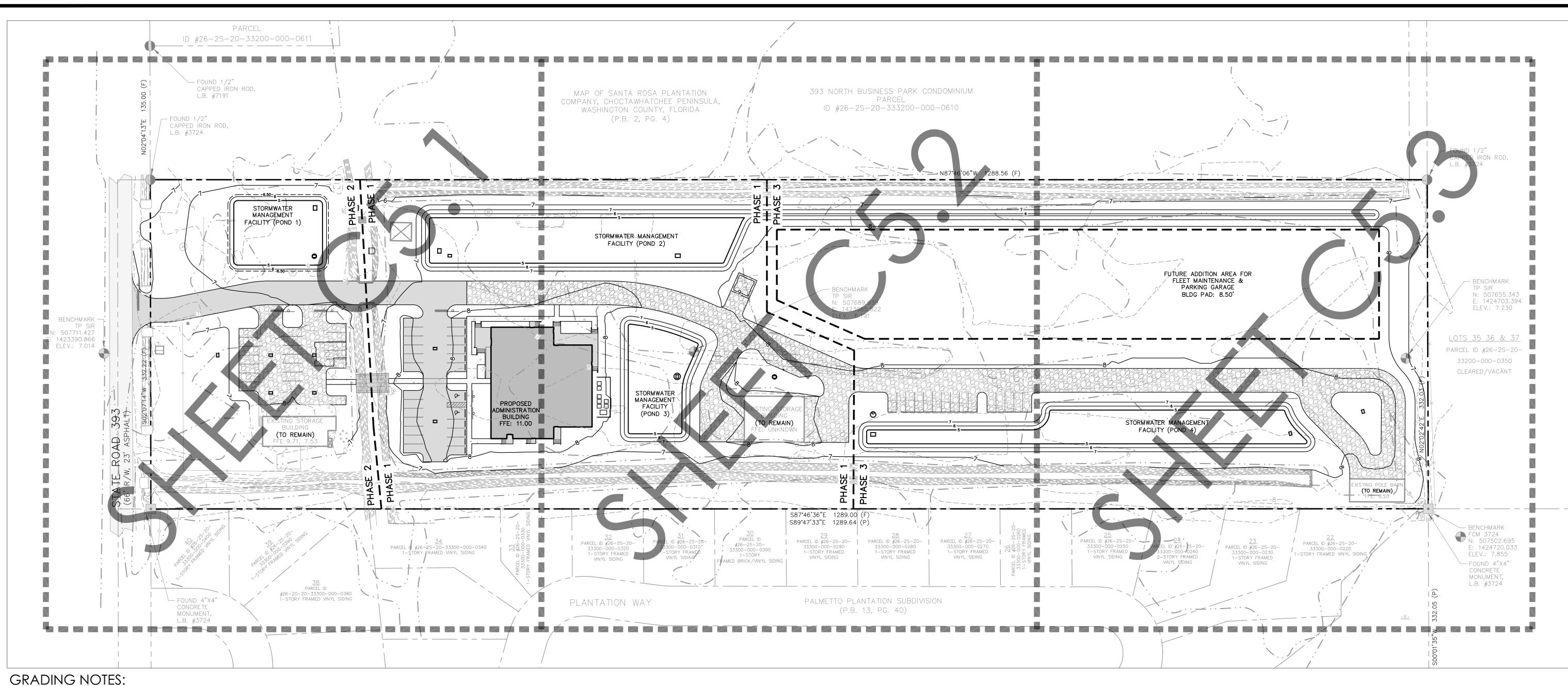
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NAY 393
H

SOUTH WALTON MOSG
NTROL DISTRICT MASTE
774 NORTH COUNTY HIGHWAY 393
SANTA ROSA BEACH
WALTON COUNTY, FLORIDA

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							ISSUE:	FOR PERMIT ONLY
							DATE:	18178 07/05/2023
							JOB #:	18178
SITE PLAN (3 OF 3)								

EET No: C4.3

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- 1. ALL DISTURBED AREAS TO BE PERMANENTLY GRASSED AND RETENTION AREAS TO BE SODDED. ALL SLOPES 3:1 AND STEEPER SHALL BE SODDED.
- 2. EROSION CONTROL MEASURES SHALL BE MAINTAINED ON SITE FOR THE DURATION OF
- 3. CONTRACTORS SHALL MAINTAIN PUBLIC ACCESS AT ALL TIMES ALONG PRIVATE, CITY AND COUNTY RIGHT-OF-WAYS.
- 4. NO PARKING OR UNLOADING OF MATERIALS SHALL OCCUR WITHIN RIGHT-OF-WAY.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO STRUCTURES WITHIN THE PUBLIC AND PRIVATE RIGHT-OF-WAY AND SHALL REPAIR ANY DAMAGE CAUSED BY THE CONSTRUCTION ACTIVITIES TO THE PRIVATE AND PUBLIC RIGHT-OF-WAY AT THE CONTRACTOR'S EXPENSE.
- S. CONTRACTOR SHALL NOT RELOCATE ANY SIDEWALK WITHIN THE RIGHT-OF-WAY WITHOUT WRITTEN PERMISSION FROM THE CITY OR COUNTY ENGINEER.

FLOOD ZONE NOTE:

FLOOD NOTE: THIS PARCEL LIES IN FLOOD ZONE X (NO MINIMUM), FLOOD ZONE X (SHADED - 2% ANNUAL CHANCE FLOOD - NO MINIMUM), A (UNDETERMINED), AND FLOOD ZONE AE (7' BASE FLOOD ELEVATION) AS DETERMINED BY SCALE FROM FEMA PANEL #12131C0563H, DATED 12/30/2020, AND FURNISHED BY FEMA NATIONAL FLOOD HAZARD LAYER ONLINE GEOSPATIAL DATABASE.

SITE BENCH MARK DATA:

1. BEARINGS WERE HELD USING FLORIDA STATE PLANE COORDINATES (0903) NAVD 1983, ELEVATIONS WERE DETERMINED USING NAVD 1988.

FLOOD ZONE COMPENSATORY STORAGE CALCULATIONS:

TOTAL FILL WITHIN FLOOD ZONE A

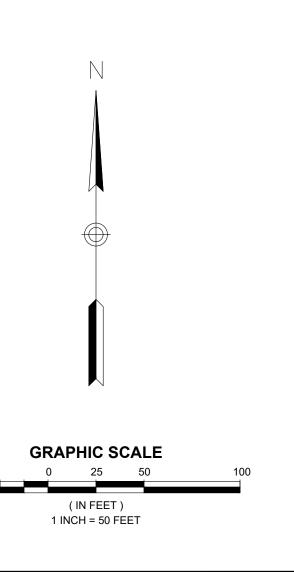
(UP TO ELEVATION 7.0')

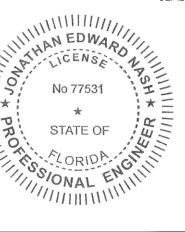
1,021 CY

TOTAL ADDITIONAL FLOOD STORAGE PROVIDED (ABOVE PEAK STAGE OF PONDS)

1,578 CY

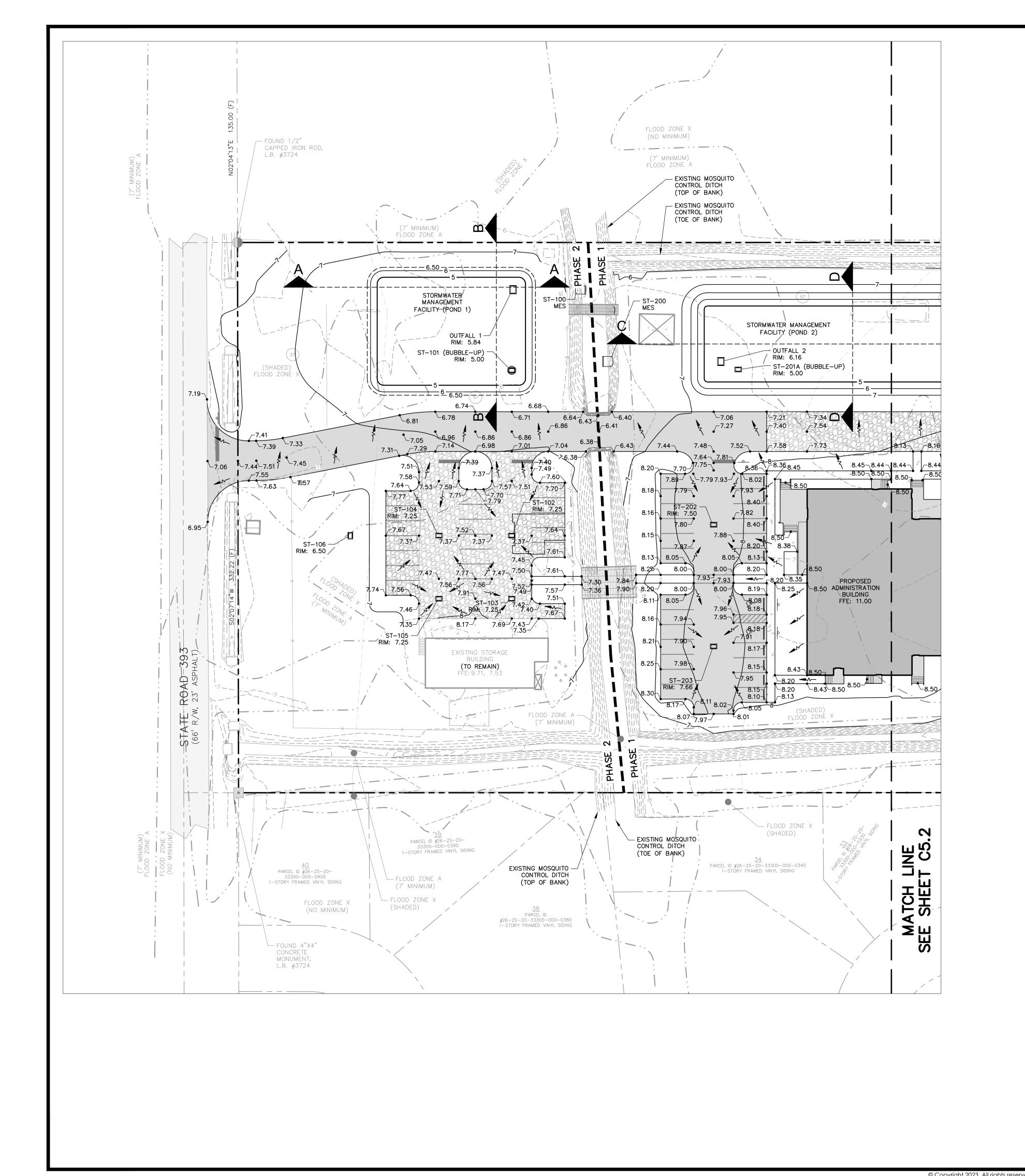






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GRADING PLAN KEY MAP







STATE OF

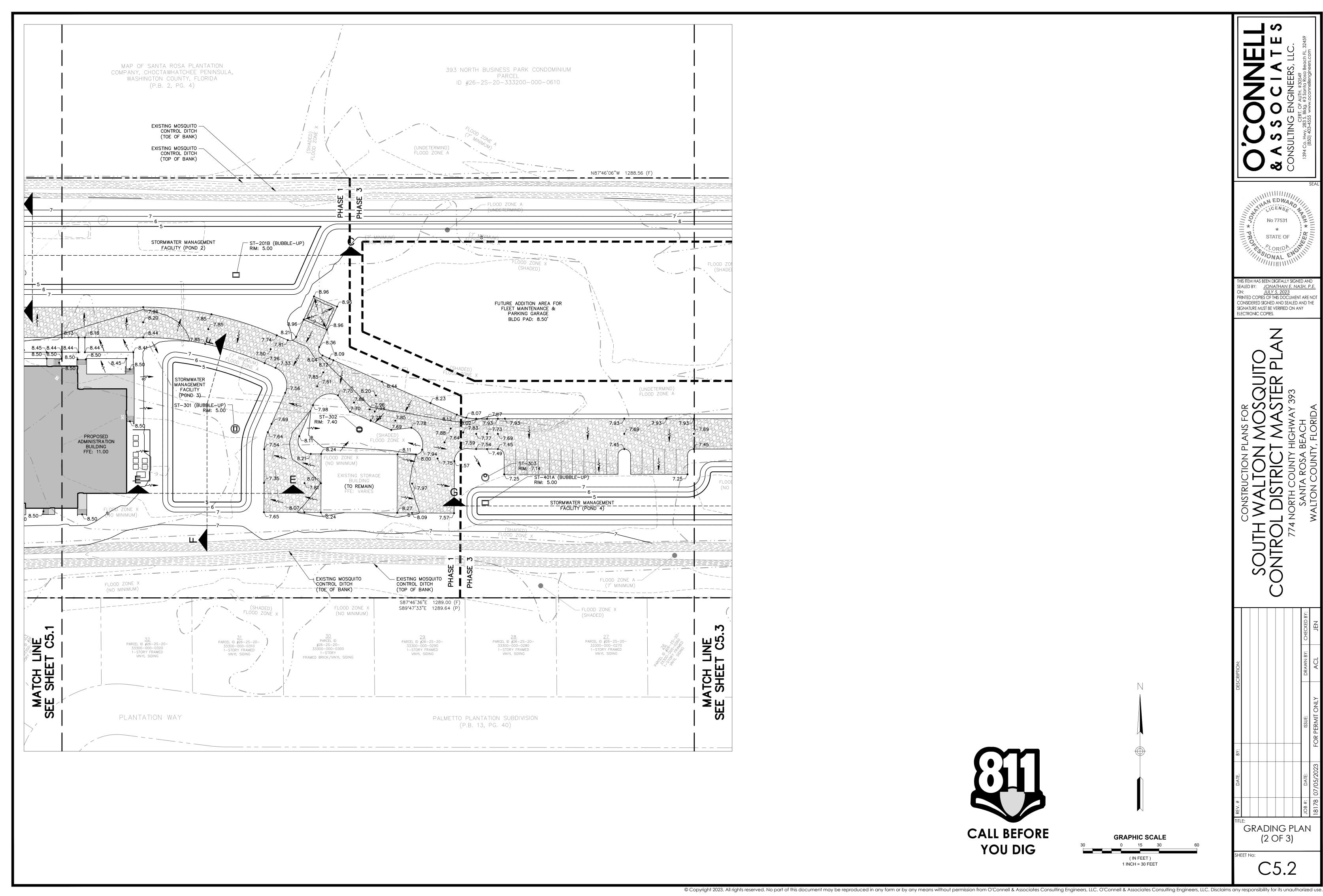
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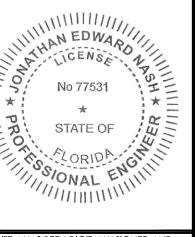
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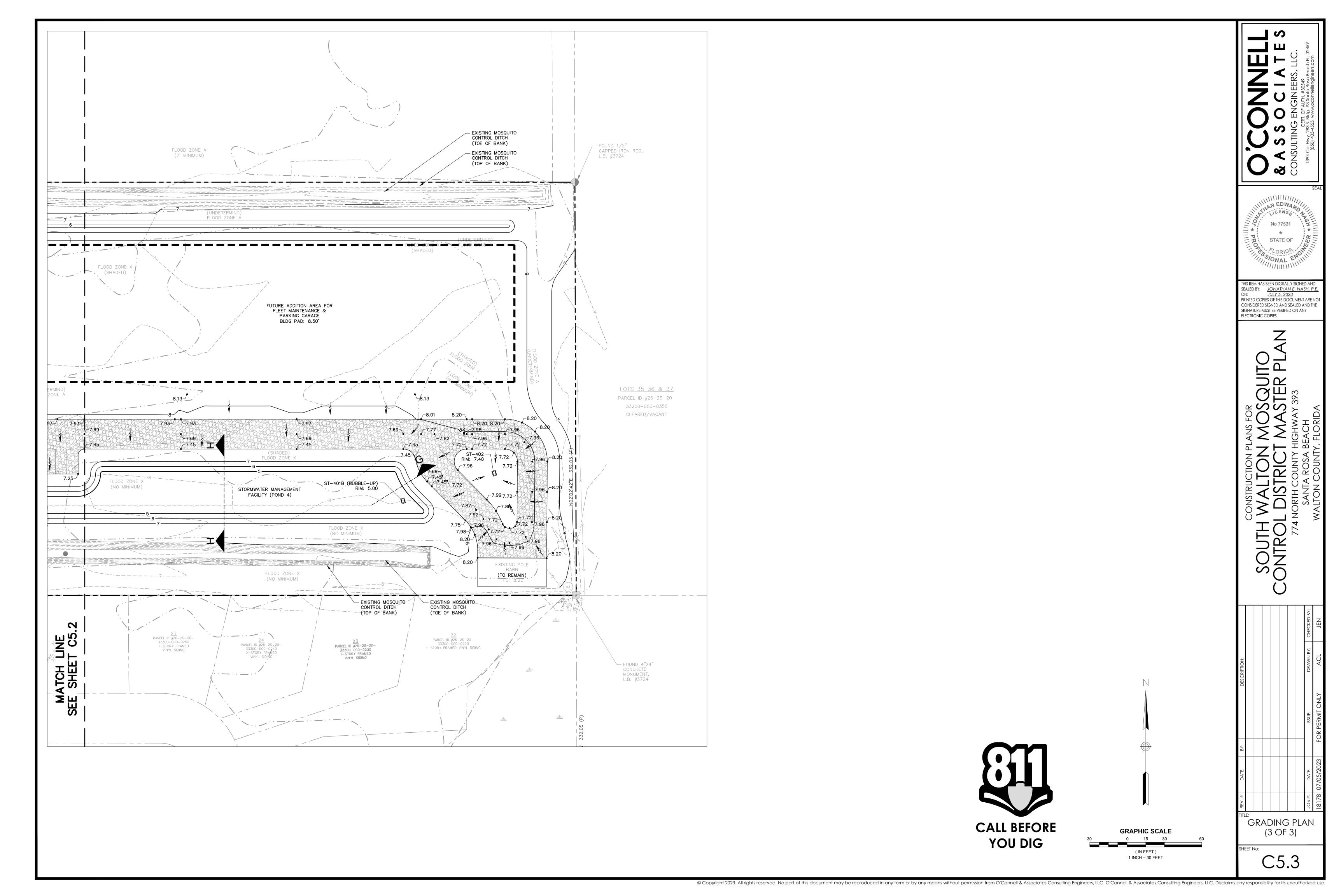
GRADING PLAN

(1 OF 3)

C5.1







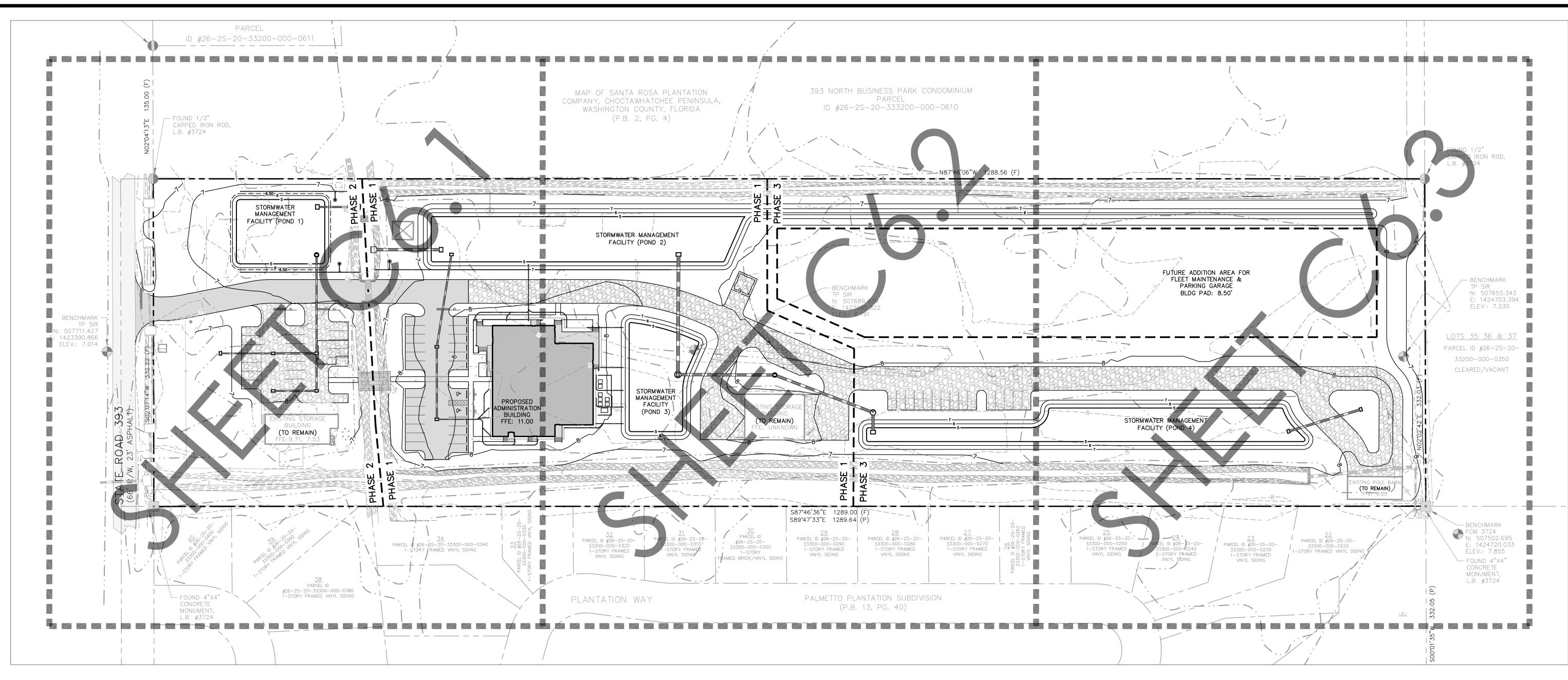


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STORMWATER NOTES:

. STORM SEWERS SHALL BE INSTALLED IN LOCATIONS AND OF SIZES INDICATED ON DRAWING. STORMWATER DRAINAGE HDPE PIPE SHALL BE ADS-12 DUAL WALL OR APPROVED EQUAL. 2. LAY PIPE, EMBED FIRMLY TO REQUIRED LINE AND GRADE WITH BELLS OF GROOVE END UP-GRADE. FIT TOTAL FILL WITHIN FLOOD ZONE A ENDS TOGETHER, EXCAVATE BELL HOLES SO THAT SEWER WILL HAVE SMOOTH AND UNIFORM INVERT

THROUGHOUT ITS LENGTH. WHERE GROUND IS FOUND UNSUITABLE TO SUPPORT PIPE, PROVIDE CONCRETE CRADLES. DEPOSIT CONCRETE FULL WIDTH OF TRENCH 4" DEEP MINIMUM TO BOTTOM OF PIPE, REINFORCE CONTINUOUSLY WITH TWO (2) NO. 4 REINFORCING BARS, BEFORE CONCRETE IS SET, EMBED PIPE EVENLY, DEPOSIT REMAINDER OF CONCRETE TO CENTERLINE OF PIPE AND TAMP IN A MANNER TO

- AVOID DISTURBING PIPE. 4. WHERE STORM CROSSES A SANITARY SEWER OR WATER LINE AND THE STORM SEWER IS WITHIN ONE AND A HALF (1-1/2) FEET OF THE SANITARY SEWER PIPE OR WATER LINE, THE INTERSECTION OF THE PIPE OR LINE SHALL BE EMBEDDED IN CONCRETE FOR A DISTANCE OF FIVE FEET (5') EACH WAY FROM CENTERLINE OF INTERSECTION.
- PRECAST CONCRETE BASE MUST BE SET LEVEL ON SAND CUSHION OF NOT LESS THAN 2" NOR MORE
- MANHOLES AND CATCH BASINS SHALL BE CONSTRUCTED OF BRICK, CONCRETE MASONRY OR PRECAST CONCRETE WITH CAST IRON FRAMES, COVERS AND MANHOLE STEPS, AS INDICATED ON DRAWINGS AND SPECIFIED HEREIN. BEFORE BACKFILLING AROUND DRAINAGE STRUCTURES, ALL FORMS, TRASH AND DEBRIS SHALL BE
- REMOVED AND CLEARED AWAY. SELECTED EXCAVATED MATERIAL SHALL BE PLACED SYMMETRICALLY ON ALL SIDES IN EIGHT INCH (8") MAXIMUM LAYERS; EACH LAYER SHALL BE MOISTENED AND COMPACTED WITH MECHANICAL OR HAND TAMPERS. 8. INFILTRATION OF THE STORM DRAINAGE SYSTEM SHALL NOT EXCEED 0.60 GALLONS PER INCH OF
- INTERNAL PIPE DIAMETER PER ONE HUNDRED FEET (100') OF PIPELINE PER HOUR WITH A MAXIMUM HYDROSTATIC HEAD AT THE CENTER LINE OF THE PIPE OF TWENTY FIVE FEET (25'), OR AS REQUIRED BY GOVERNING CODE AUTHORITIES. 9. CATCH BASIN FRAMES AND GRATINGS: ASPHALT COATED GRAY CAST IRON, ANSI/ASTM A 48, CLASS
- 30 B.
- 10. ALL ROOF DOWNSPOUTS AND YARD DRAINS SHALL BE CONNECTED TO THE DRAINAGE SYSTEM AND ROUTED TO THE STORMWATER MANAGEMENT FACILITY.

FLOOD ZONE NOTE:

FLOOD NOTE: THIS PARCEL LIES IN FLOOD ZONE X (NO MINIMUM), FLOOD ZONE X (SHADED - 2% ANNUAL CHANCE FLOOD - NO MINIMUM), A (UNDETERMINED), AND FLOOD ZONE AE (7' BASE FLOOD ELEVATION) AS DETERMINED BY SCALE FROM FEMA PANEL #12131C0563H, DATED 12/30/2020, AND FURNISHED BY FEMA NATIONAL FLOOD HAZARD LAYER ONLINE GEOSPATIAL DATABASE.

SITE BENCH MARK DATA:

1. BEARINGS WERE HELD USING FLORIDA STATE PLANE COORDINATES (0903) NAVD 1983, ELEVATIONS WERE DETERMINED USING NAVD 1988.

FLOOD ZONE COMPENSATORY STORAGE CALCULATIONS:

(UP TO ELEVATION 7.0')

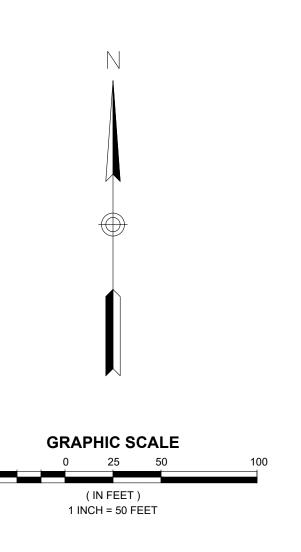
(ABOVE PEAK STAGE OF PONDS)

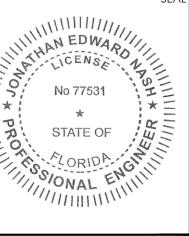
TOTAL ADDITIONAL FLOOD STORAGE PROVIDED

1,578 CY

1,021 CY





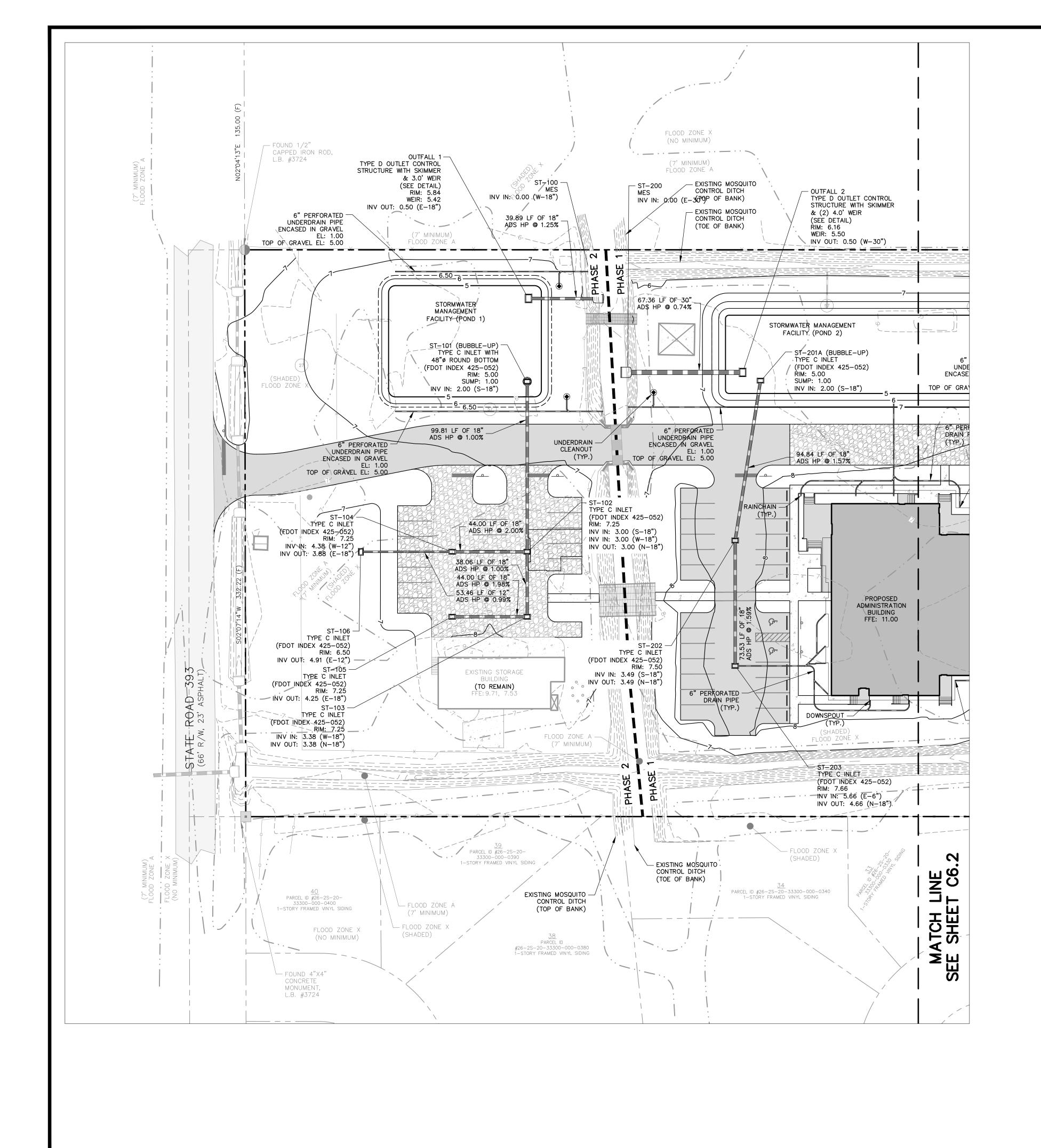


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DRAINAGE PLAN KEY MAP

C6.0

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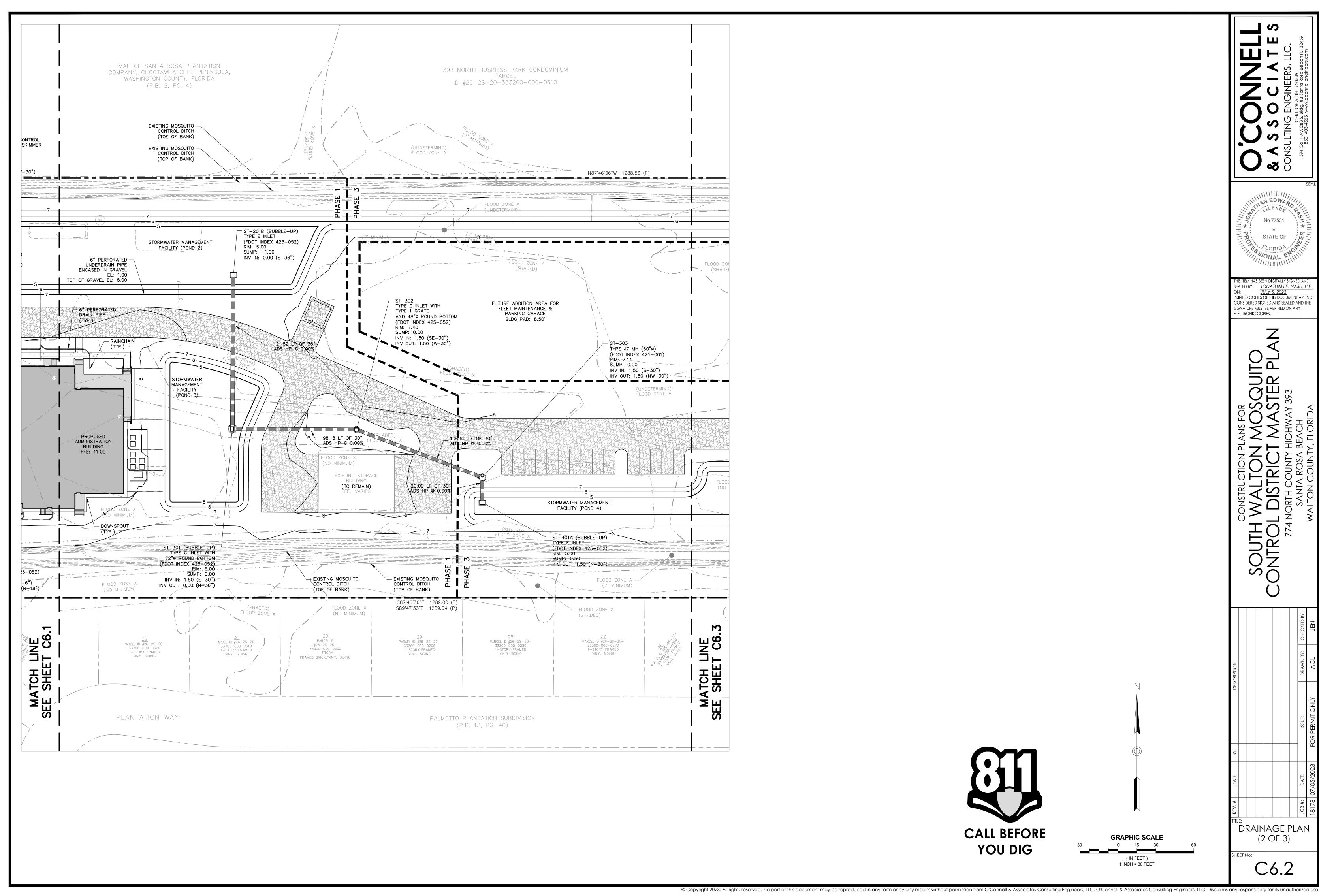
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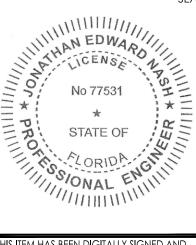
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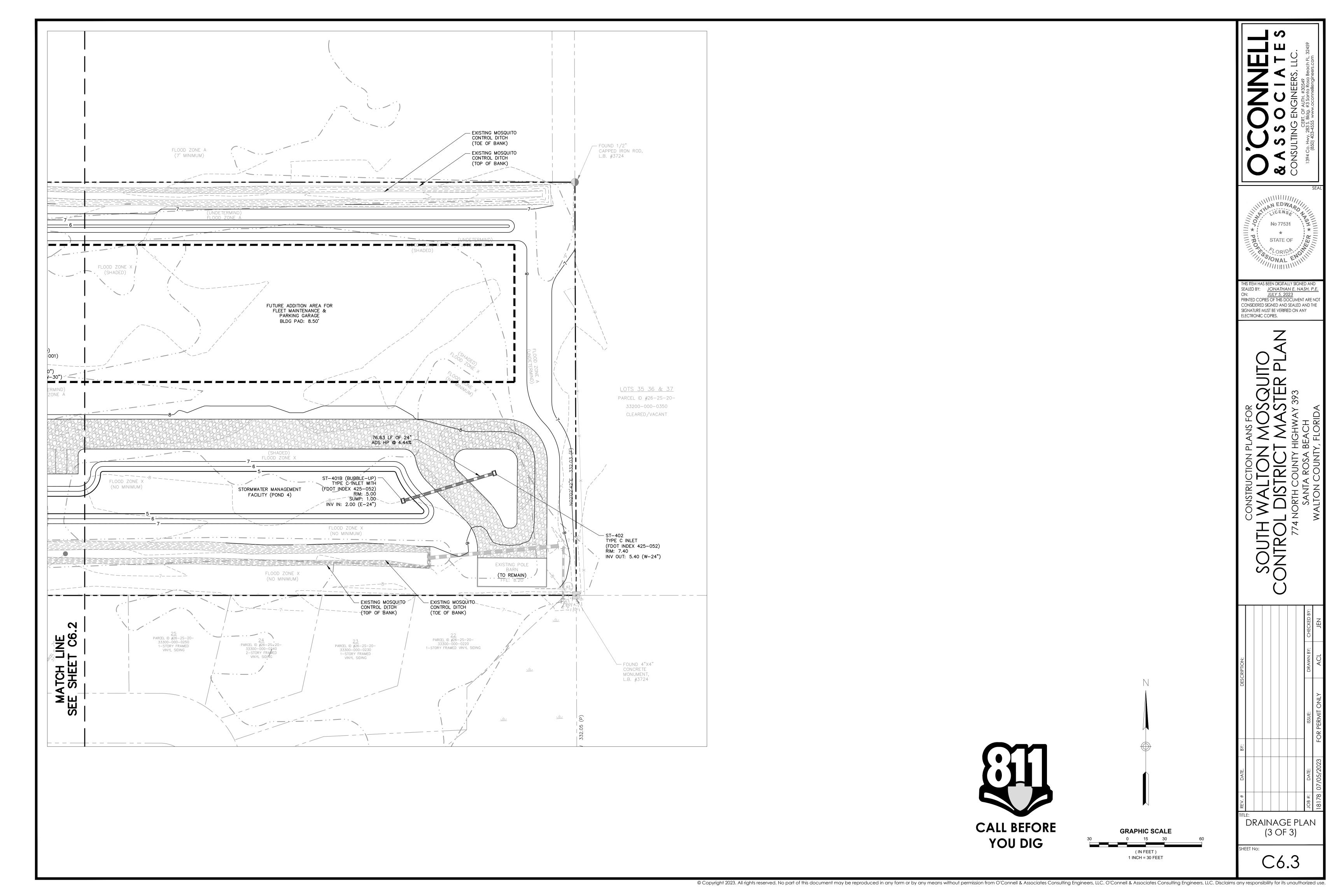
DRAINAGE PLAN

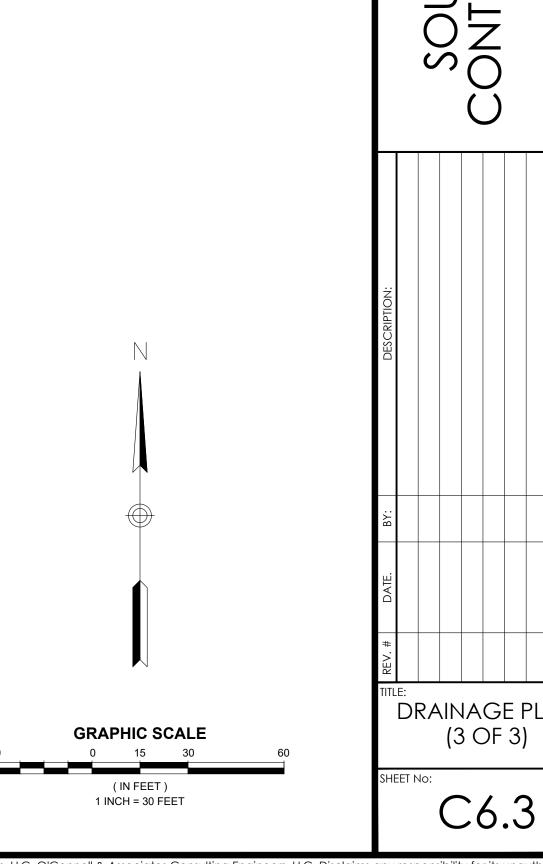
(1 OF 3)

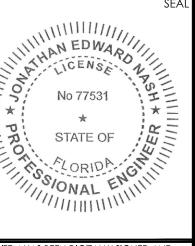
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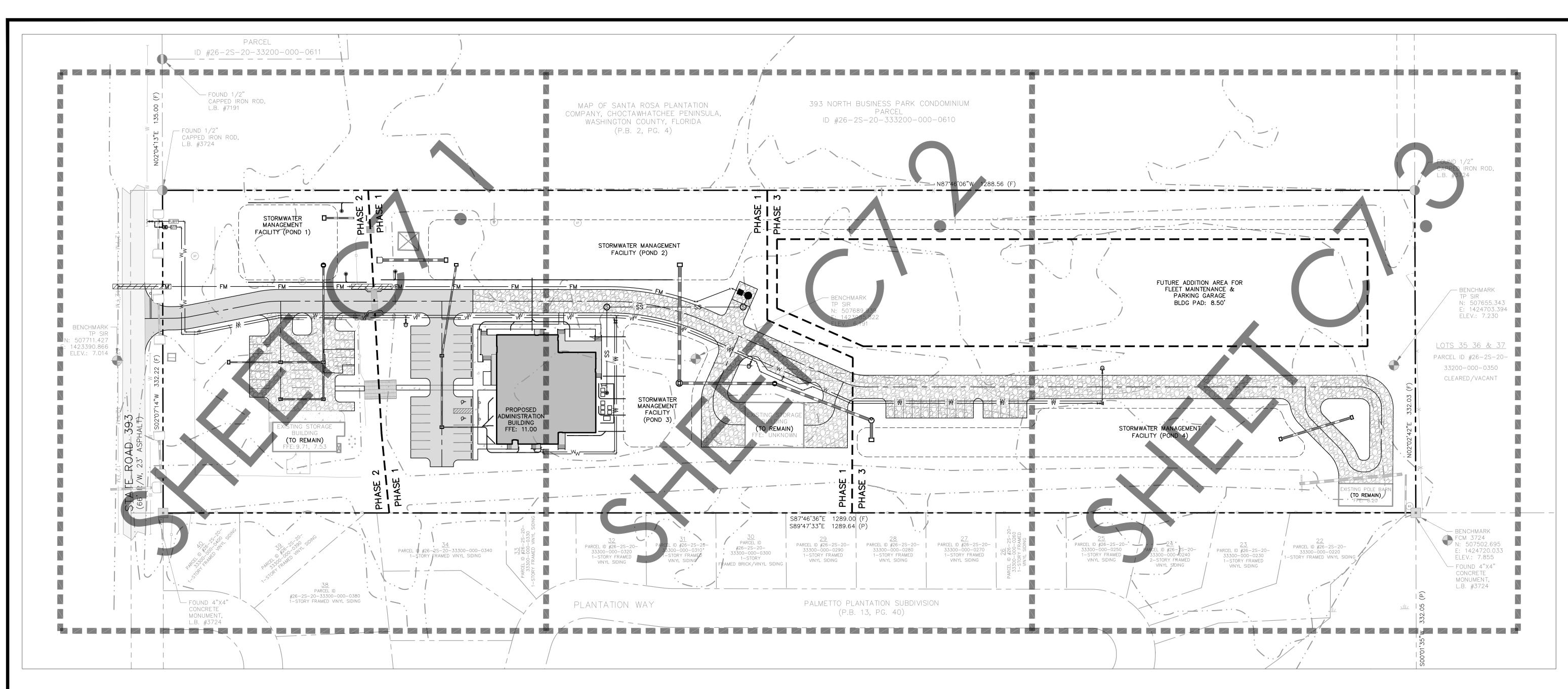






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DRAINAGE PLAN (3 OF 3)



UTILITY PLAN NOTES:

1. ALL SANITARY SEWER AND POTABLE WATER CONSTRUCTION SHALL MEET THE 2023 EDITION OF THE STANDARD DESIGN AND CONSTRUCTION SPECIFICATIONS BY REGIONAL UTILITIES (OPERATED BY FLORIDA COMMUNITY SERVICES CORP OF WALTON COUNTY)

- 2. CONTRACTOR AND/OR DEVELOPER SHALL NOTIFY REGIONAL UTILITIES AT LEAST 24 HOURS PRIOR TO UTILITY CONSTRUCTION FOR INSPECTION AND VERIFICATION.
- 3. A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE CONTRACTOR, DEVELOPER, AND ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
- 4. CONTRACTOR SHALL MAINTAIN WATER/SEWER SEPARATION PER REGIONAL UTILITIES STANDARD DETAIL SHEET W-1, DETAIL 9 INCLUDED HEREIN.
- 5. WATERMAINS AND WATER SERVICES CROSSING UNDER PAVEMENT SHALL BE ENCASED PER REGIONAL UTILITIES SPECIFICATIONS.

FLOOD ZONE NOTE:

FLOOD NOTE: THIS PARCEL LIES IN FLOOD ZONE X (NO MINIMUM), FLOOD ZONE X (SHADED - 2% ANNUAL CHANCE FLOOD - NO MINIMUM), A (UNDETERMINED), AND FLOOD ZONE AE (7' BASE FLOOD ELEVATION) AS DETERMINED BY SCALE FROM FEMA PANEL #12131C0563H, DATED 12/30/2020, AND FURNISHED BY FEMA NATIONAL FLOOD HAZARD LAYER ONLINE GEOSPATIAL DATABASE.

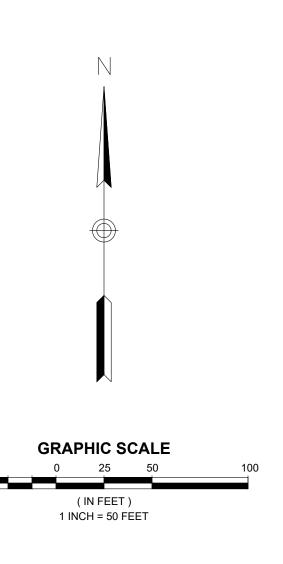
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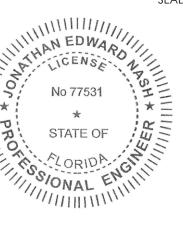
1. BEARINGS WERE HELD USING FLORIDA STATE PLANE COORDINATES (0903) NAVD 1983, ELEVATIONS WERE DETERMINED USING NAVD 1988.

CONSTRUCTION NOTES:

- WHERE WATER MAINS MUST CROSS UNDER STORM LINES TO PROVIDE MINIMUM COVER, INSTALL FOUR (4) VERTICAL M.J. 45° ELBOWS TO LOWER THE WATER MAIN AS REQUIRED TO PROVIDE A MINIMUM CLEARANCE OF ONE (1) FOOT FROM THE STORM LINE. INSTALL ONE (1) FULL STICK OF DUCTILE IRON (D.I.) CENTERED BENEATH THE STORM PIPE.
- 2. PROVIDE BELL RESTRAINTS FOR ALL AREAS WHERE WATER MAINS CROSS UNDER PAVEMENT.



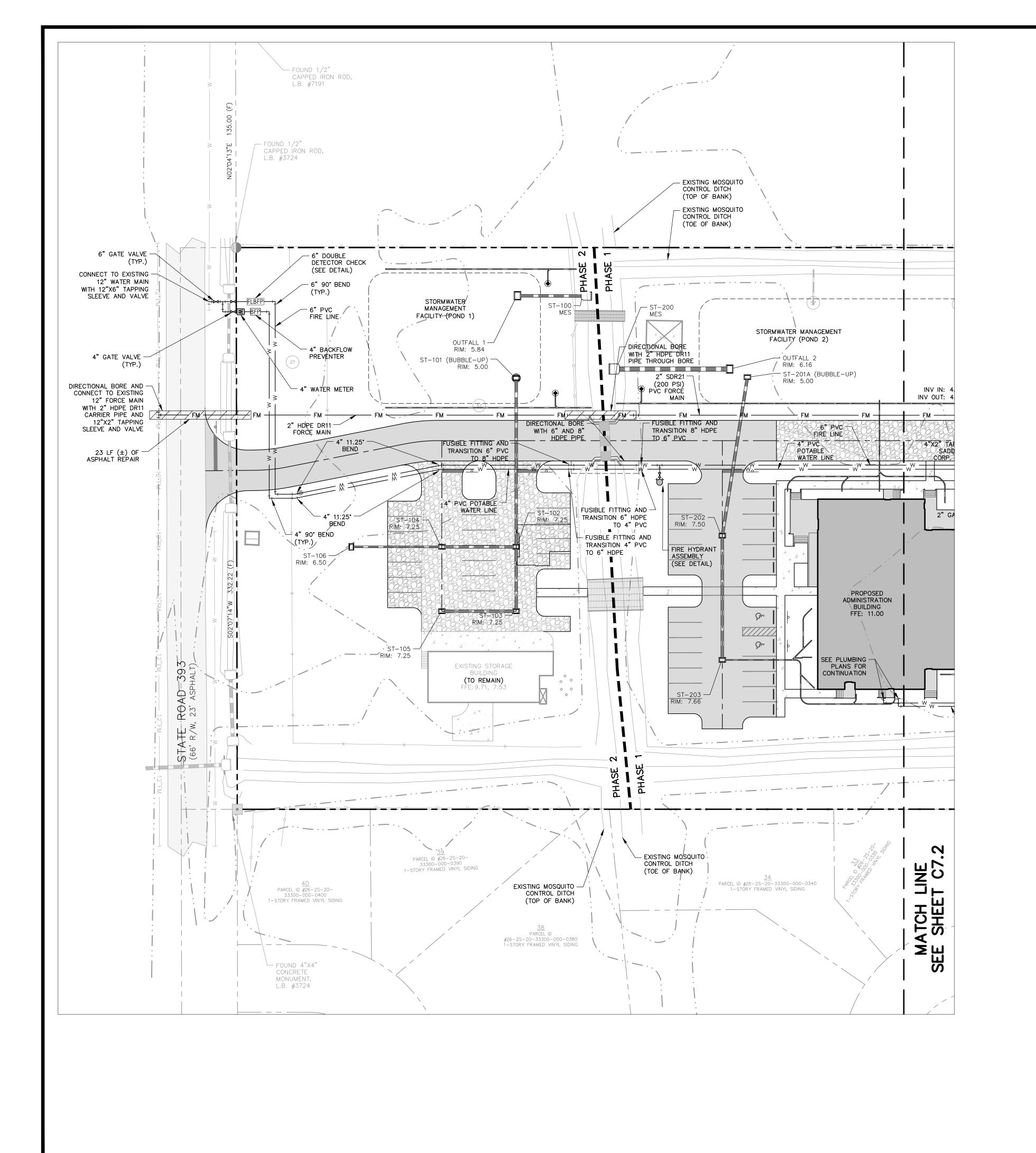




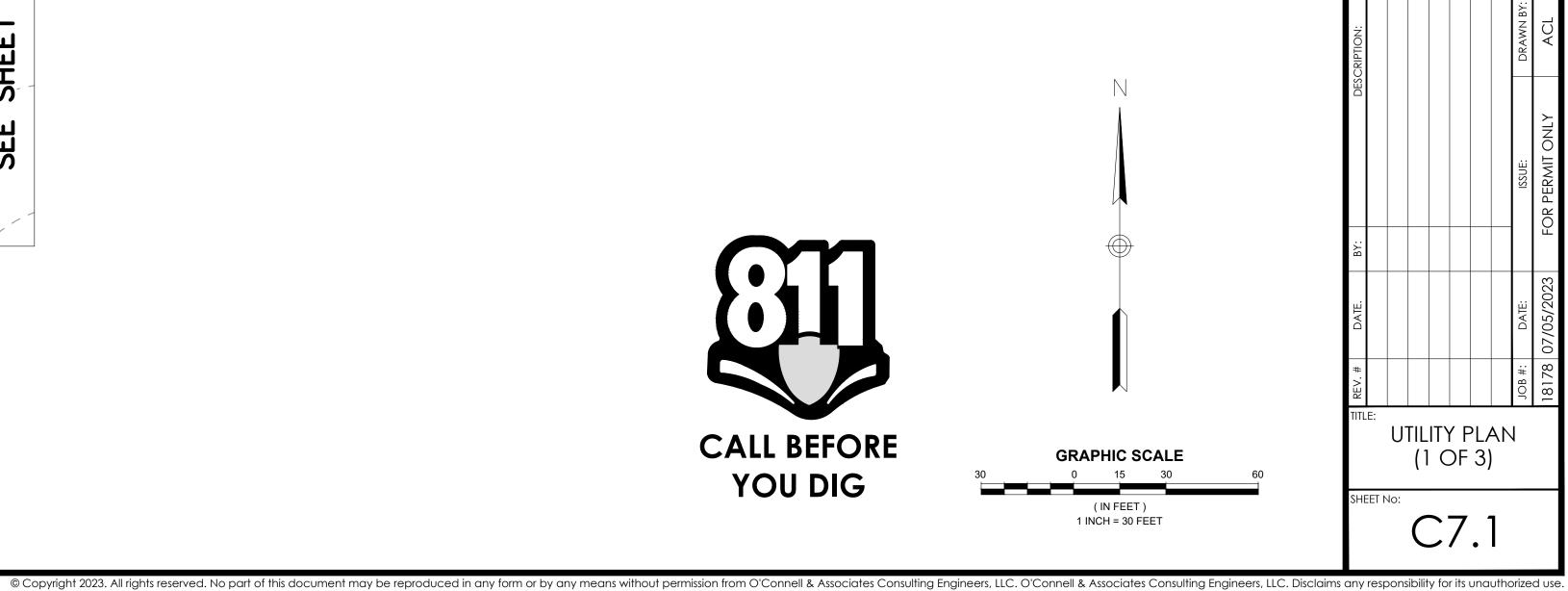
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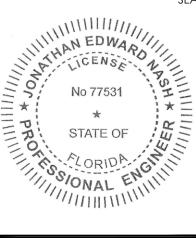
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UTILITY PLAN KEY MAP





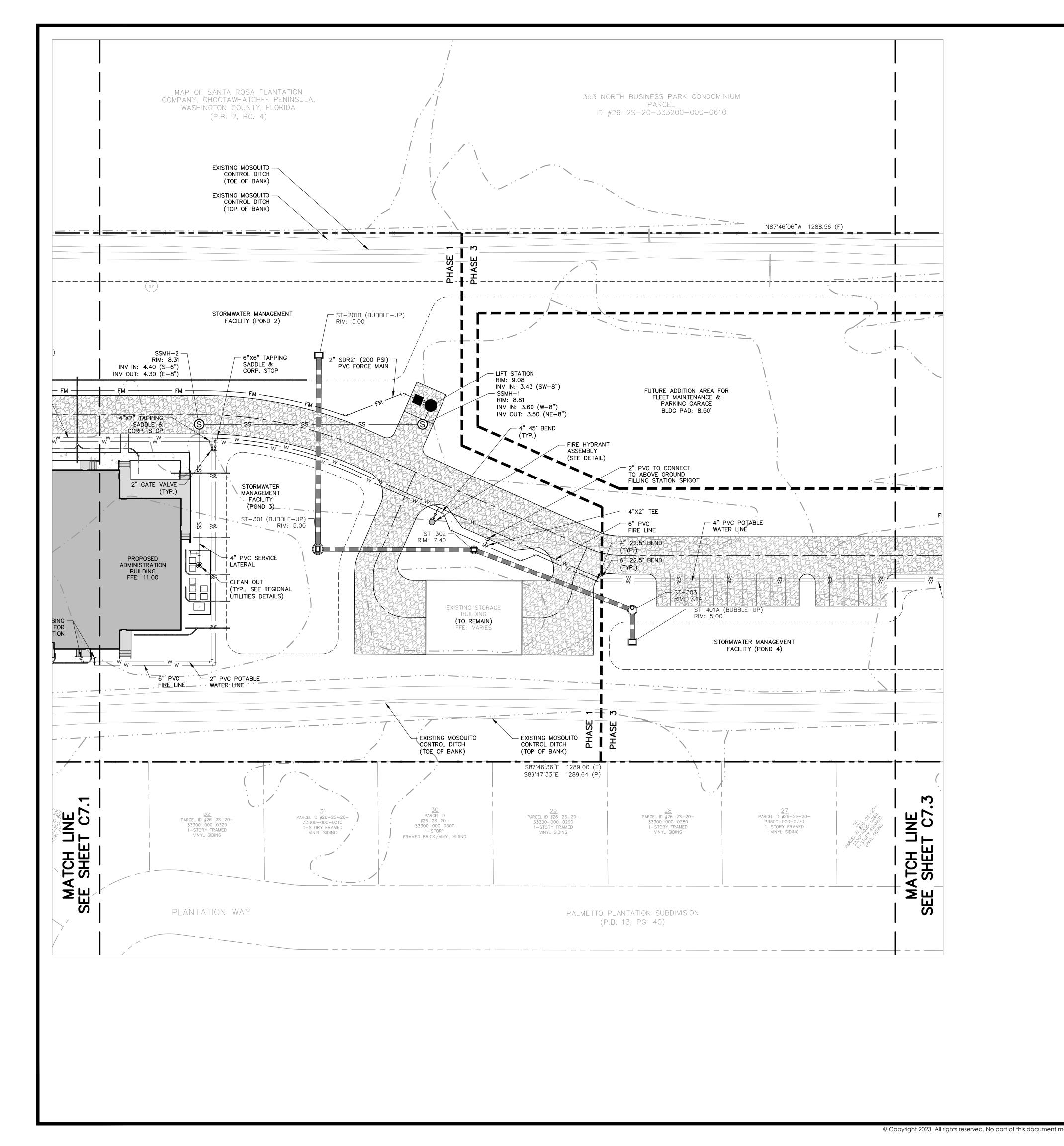


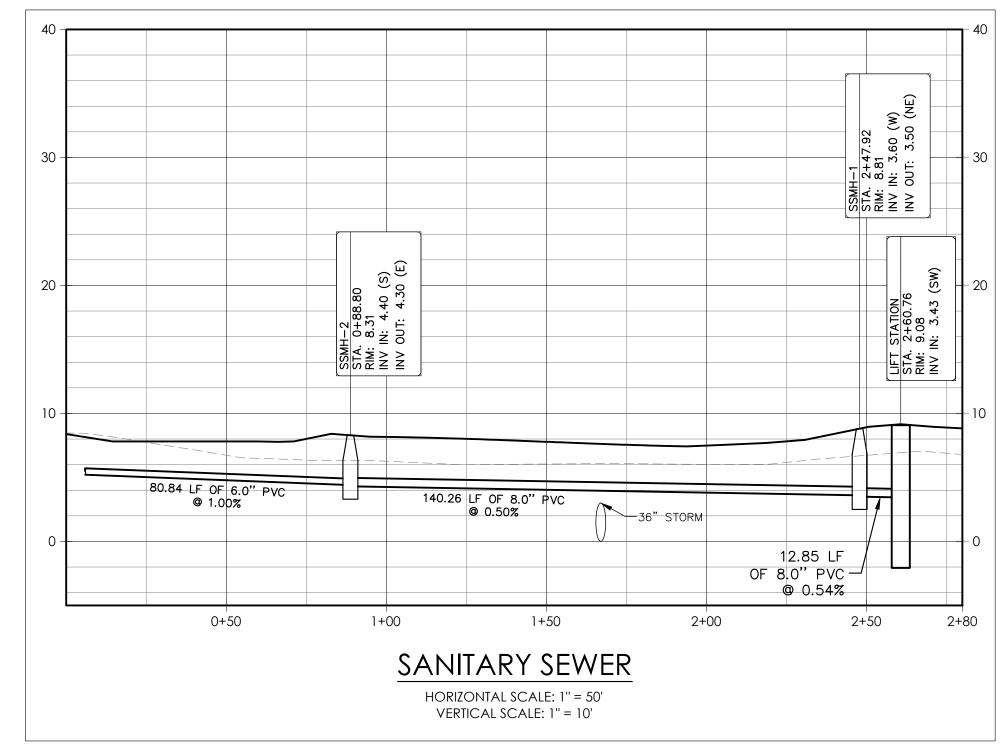


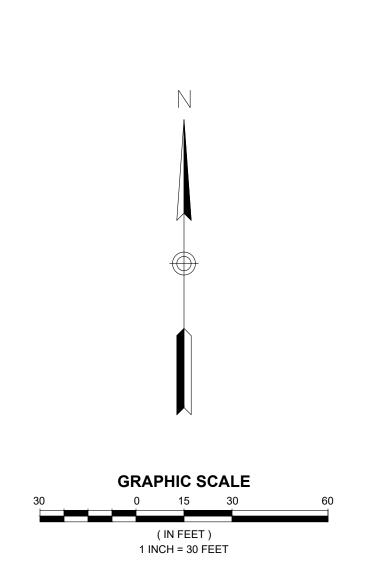
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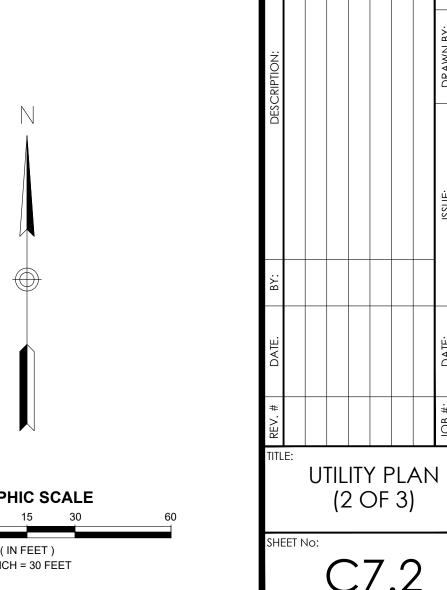






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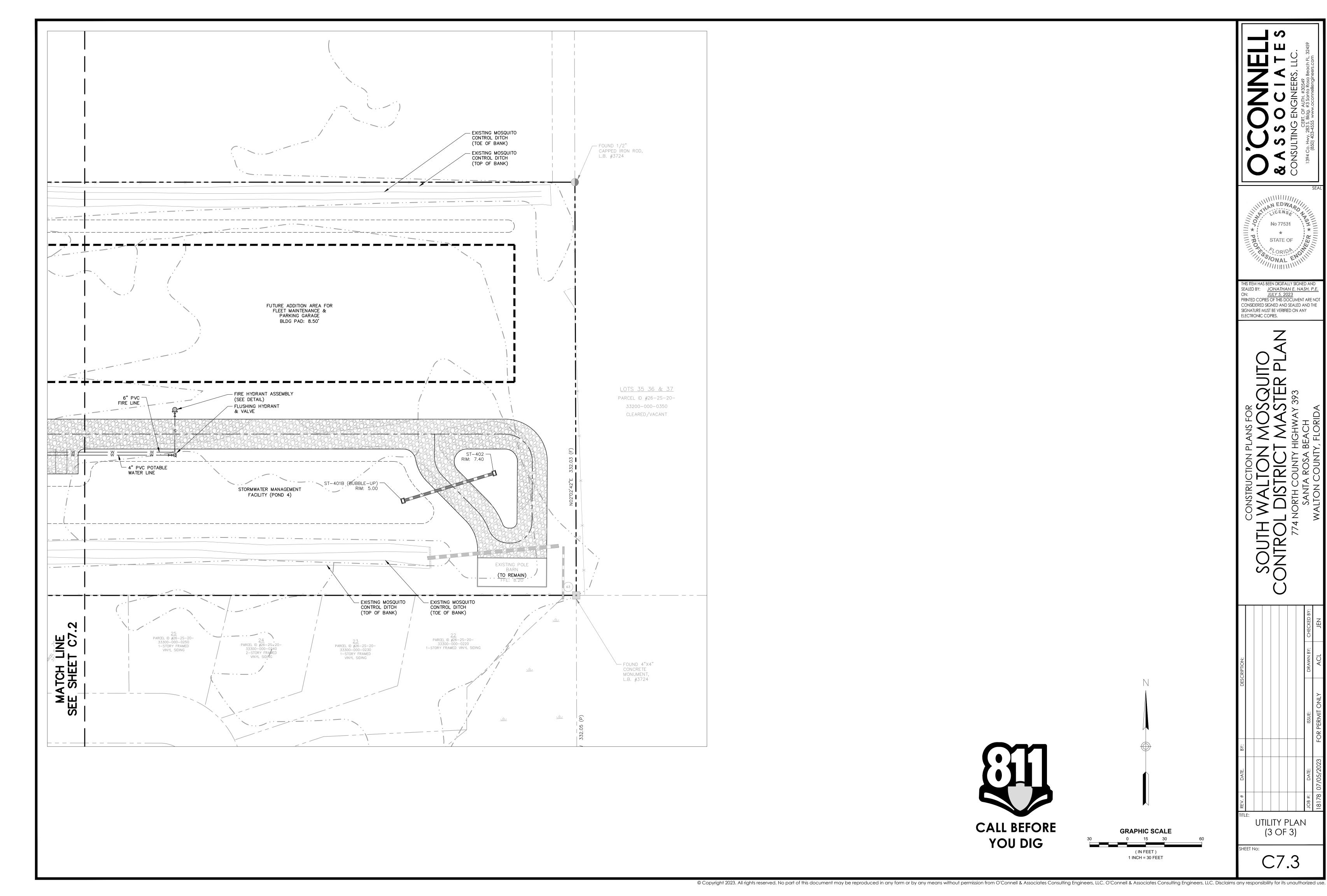
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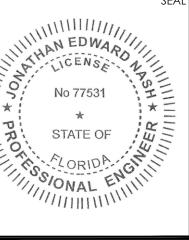
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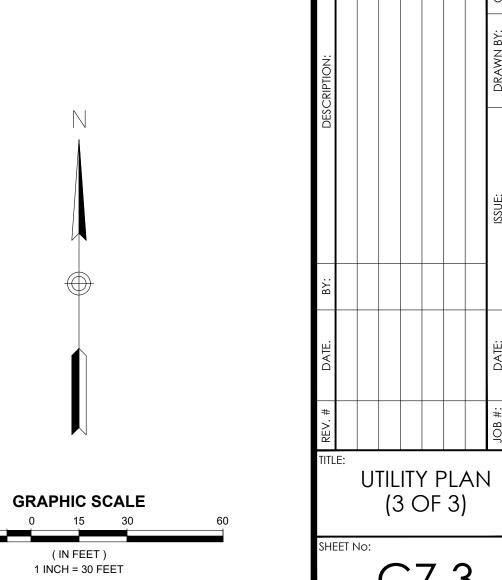
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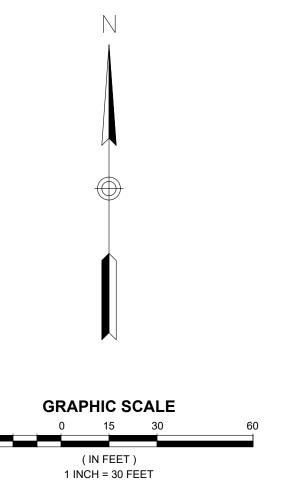


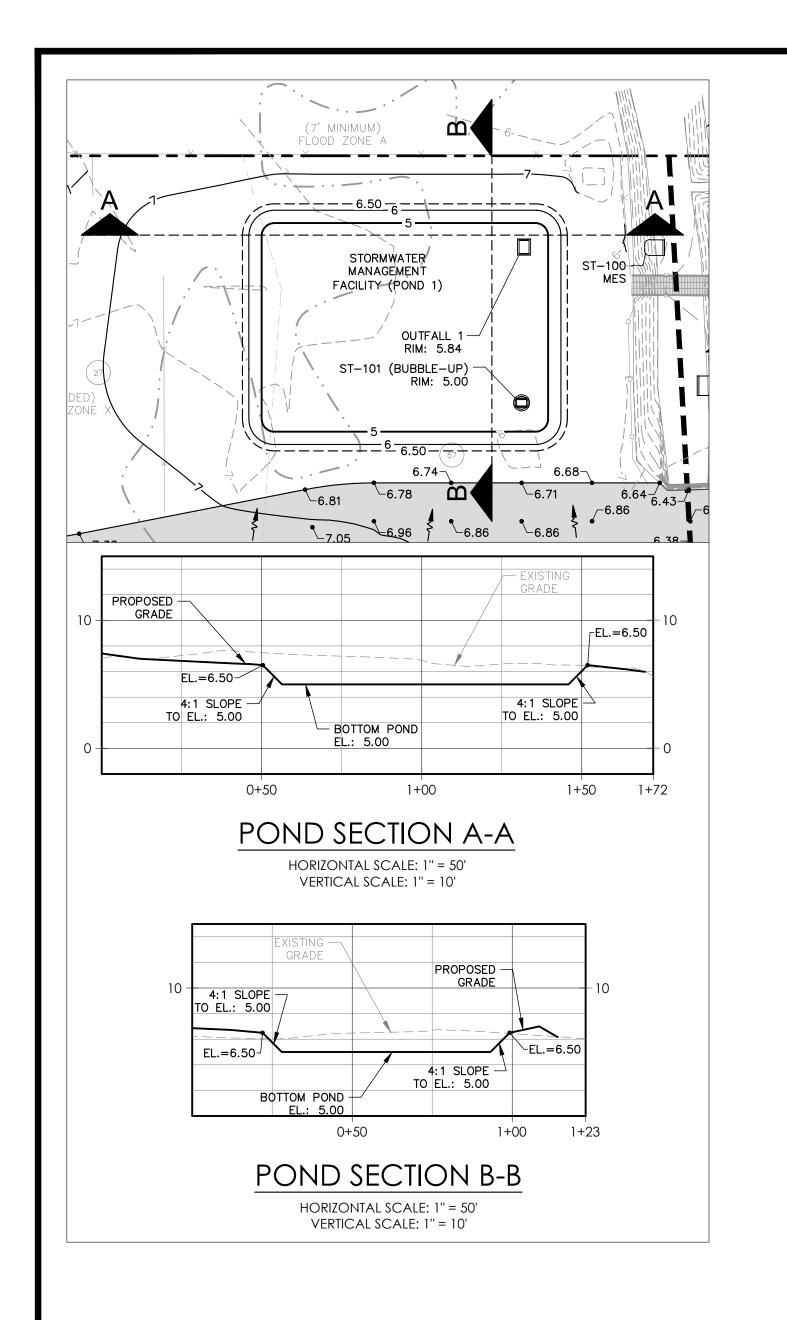


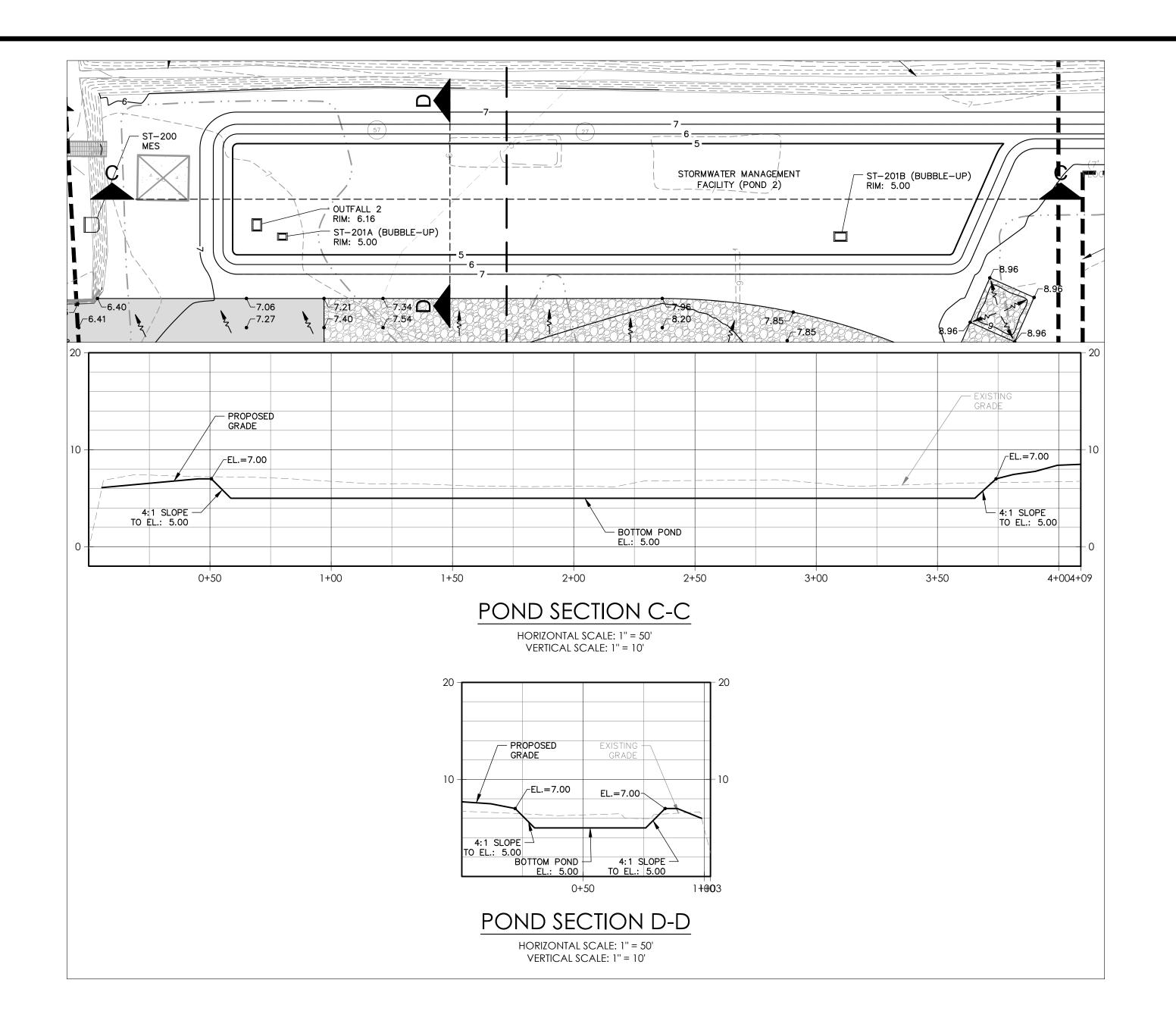
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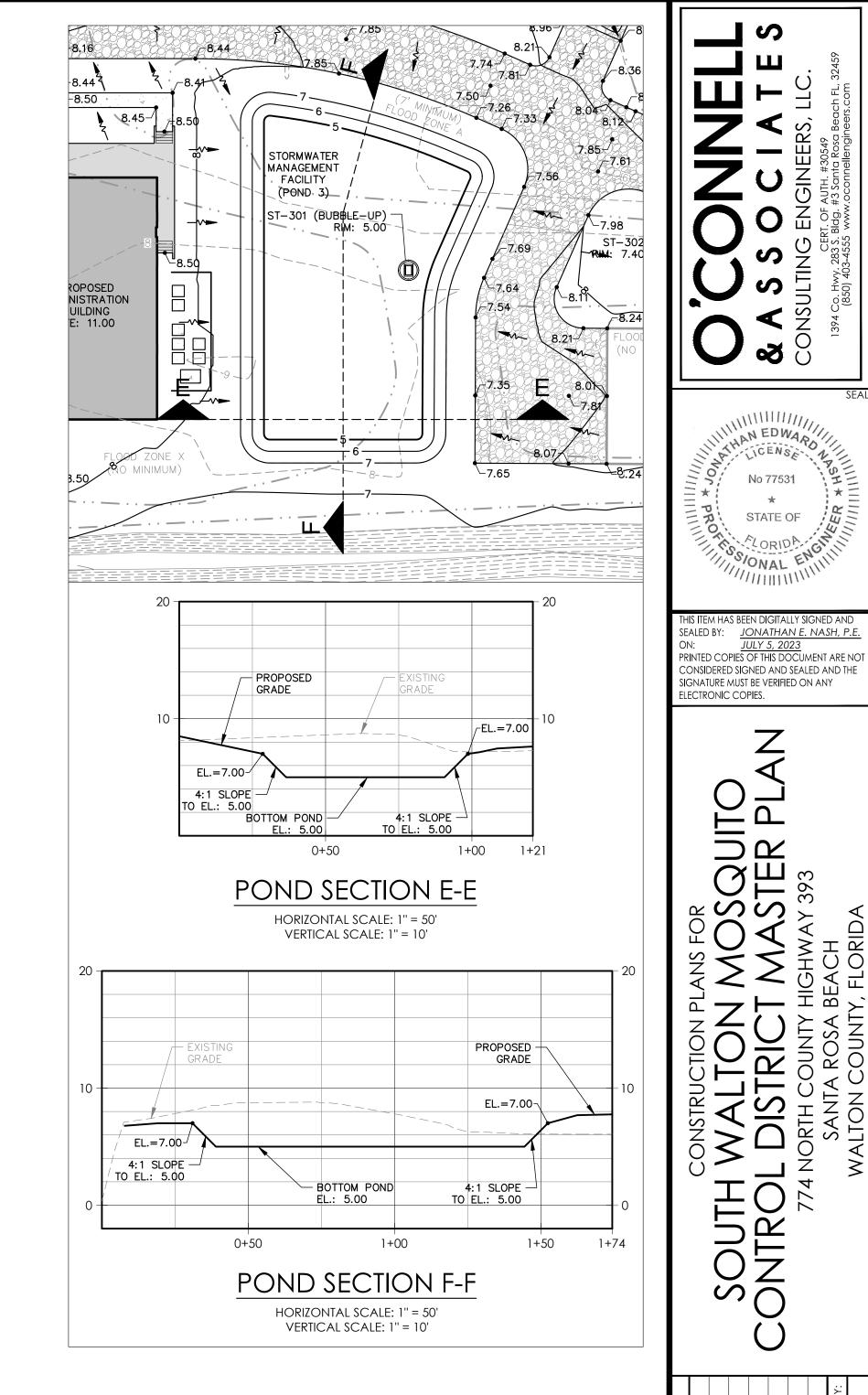
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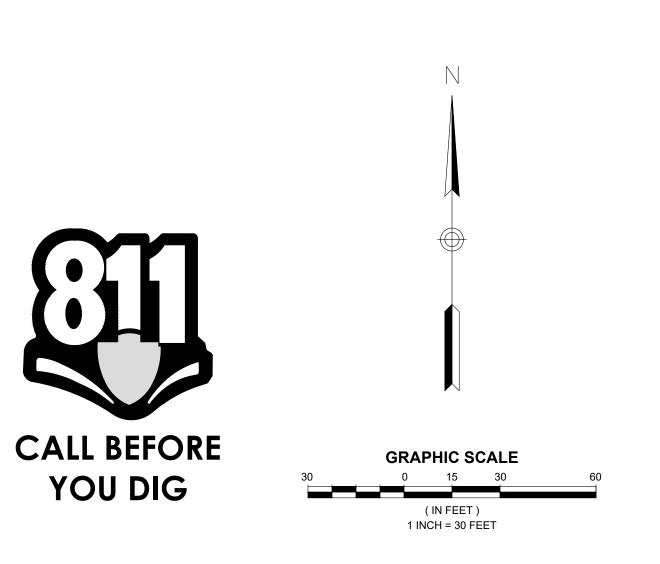


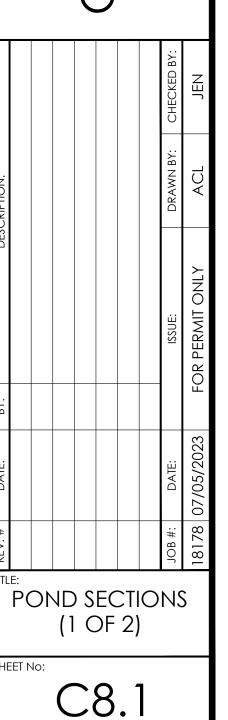






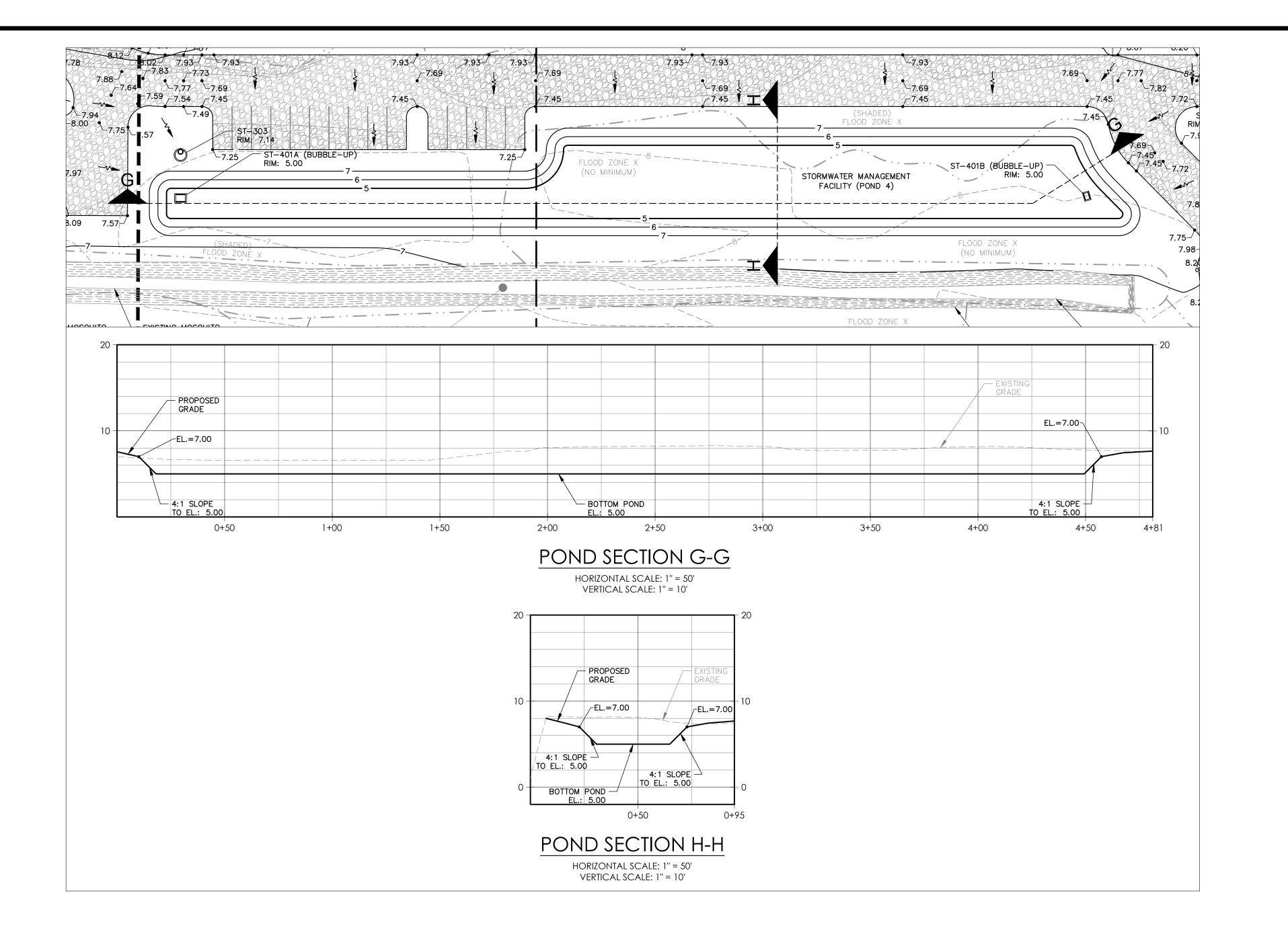




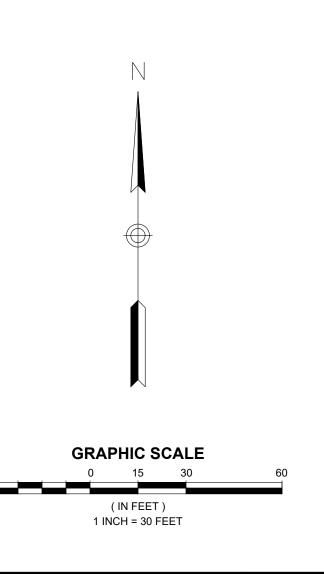


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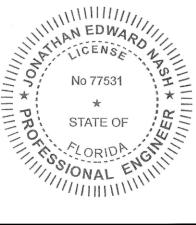
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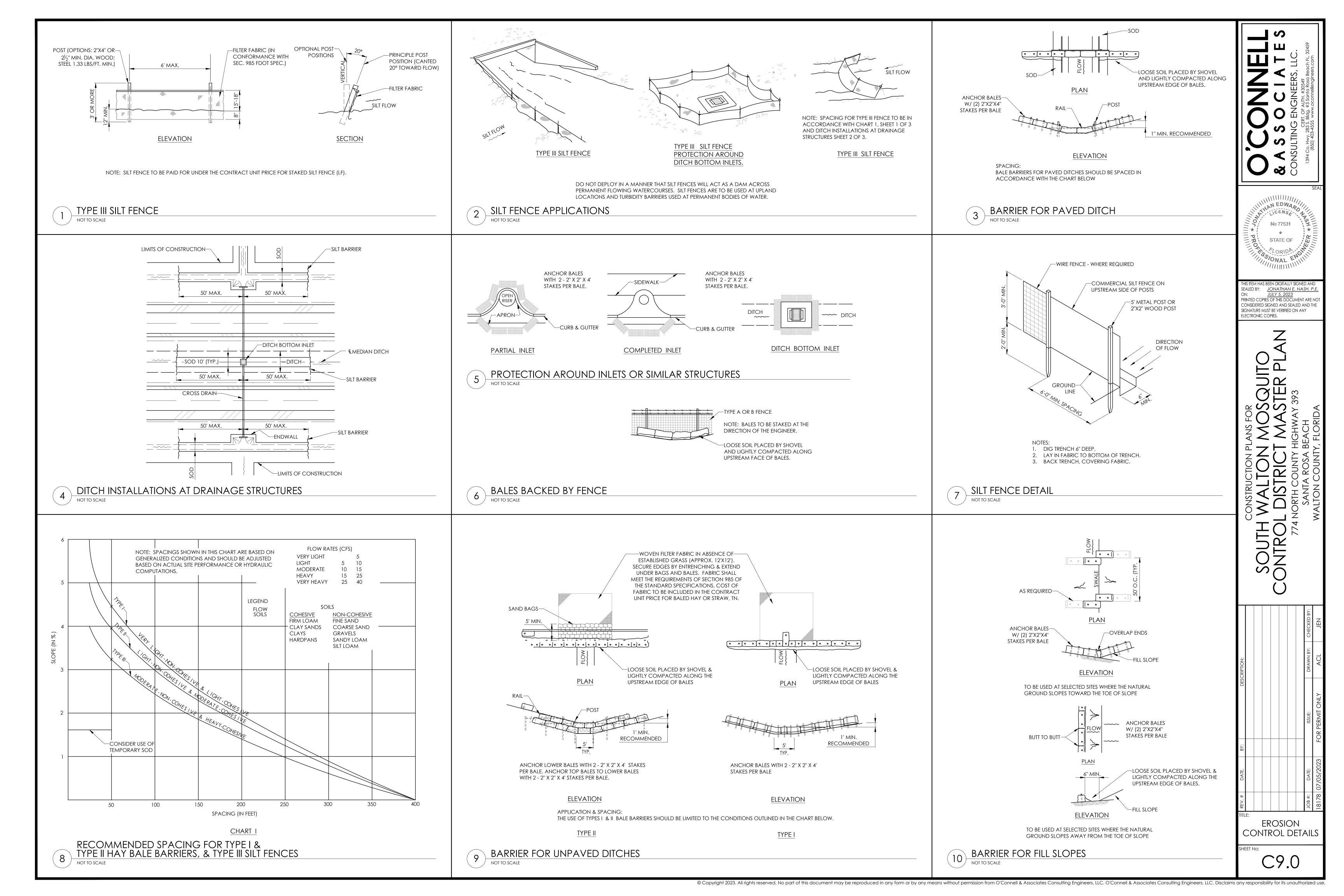
CONSTRUCTION PLANS FOR ITH WALTON MOSQUITCA MASTER PI 774 NORTH COUNTY HIGHWAY 393 SANTA ROSA BEACH WALTON COUNTY, FLORIDA

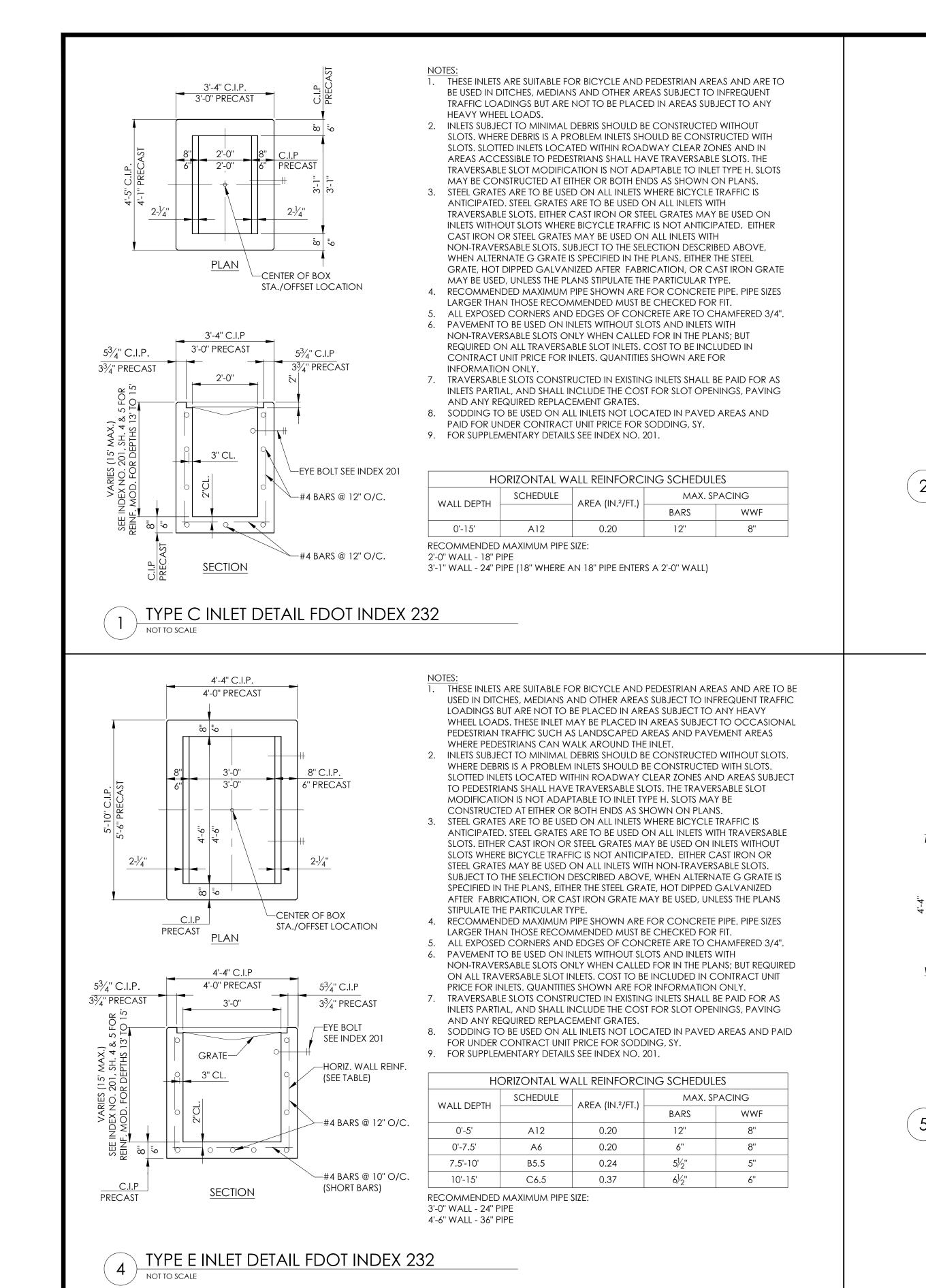
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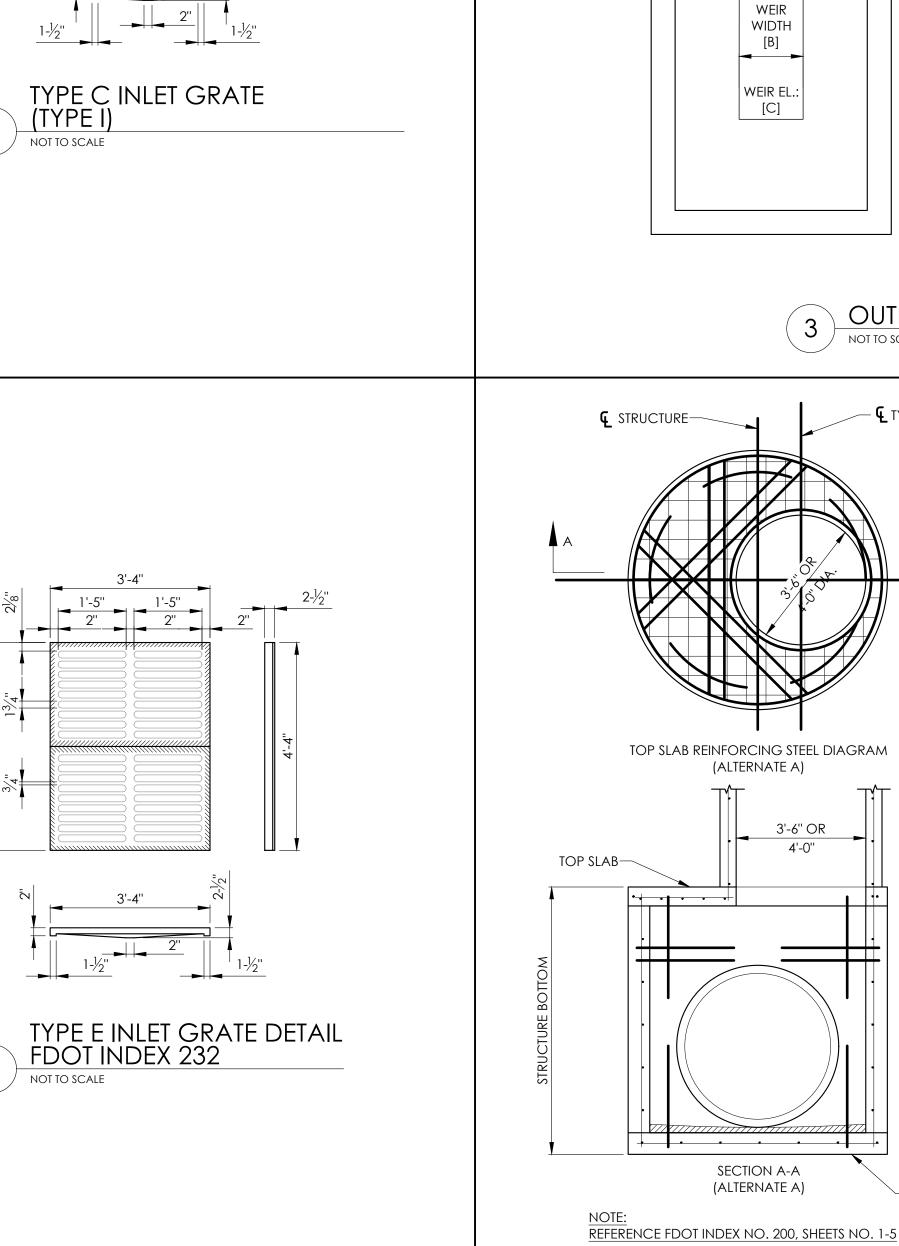
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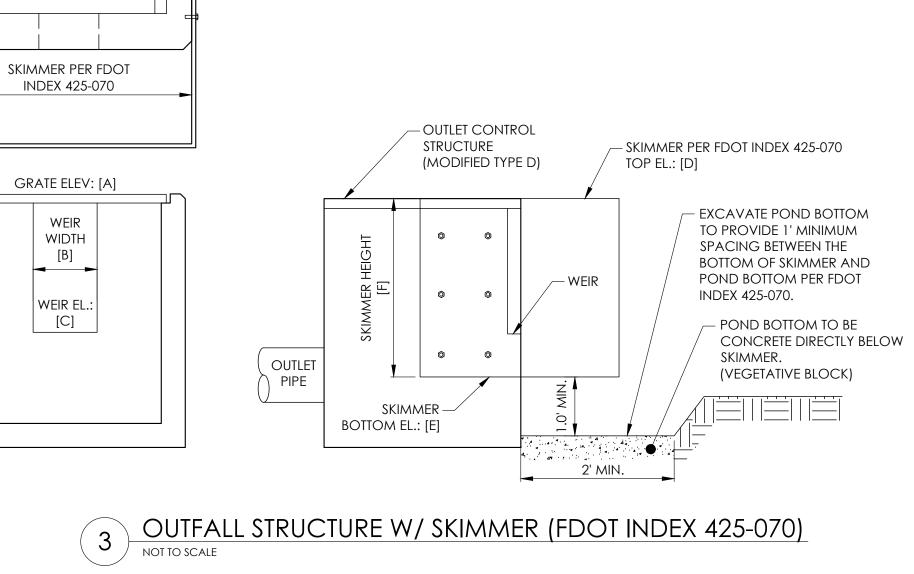
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WEIR WIDTH

[B] (FT)

3.0'

8.0'

ELEVATION

[A] (FT)

5.84'

STRUCTURE #

OUTFALL

STRUCTURE 1

OUTFALL

STRUCTURE 2

TYPE A OR B RISER

—BOTTOM SLAB

STRUCTURE BOTTOMS TYPE J AND P

REFERENCE AXIS **£**

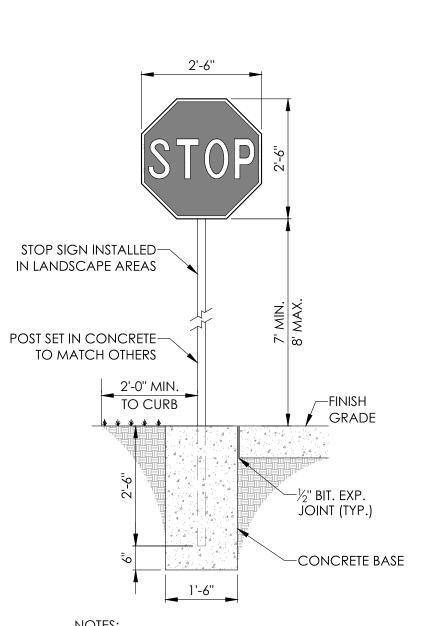
STRUCTURE BOTTOM

OUTLET

PIPE

INDEX 425-070

GRATE ELEV: [A]



SKIMMER TOP

[D] (FT)

5.84'

6.16'

ELEVATION ELEVATION

[C] (FT)

5.42'

5.50'

BOTTOM ELEVATION

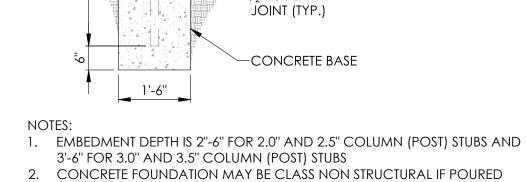
4.84'

4.99'

SKIMMER HEIGHT

(PER INDEX) [F]

12"





CONSTRUCTION DETAILS

AN EDWAD

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No 77531

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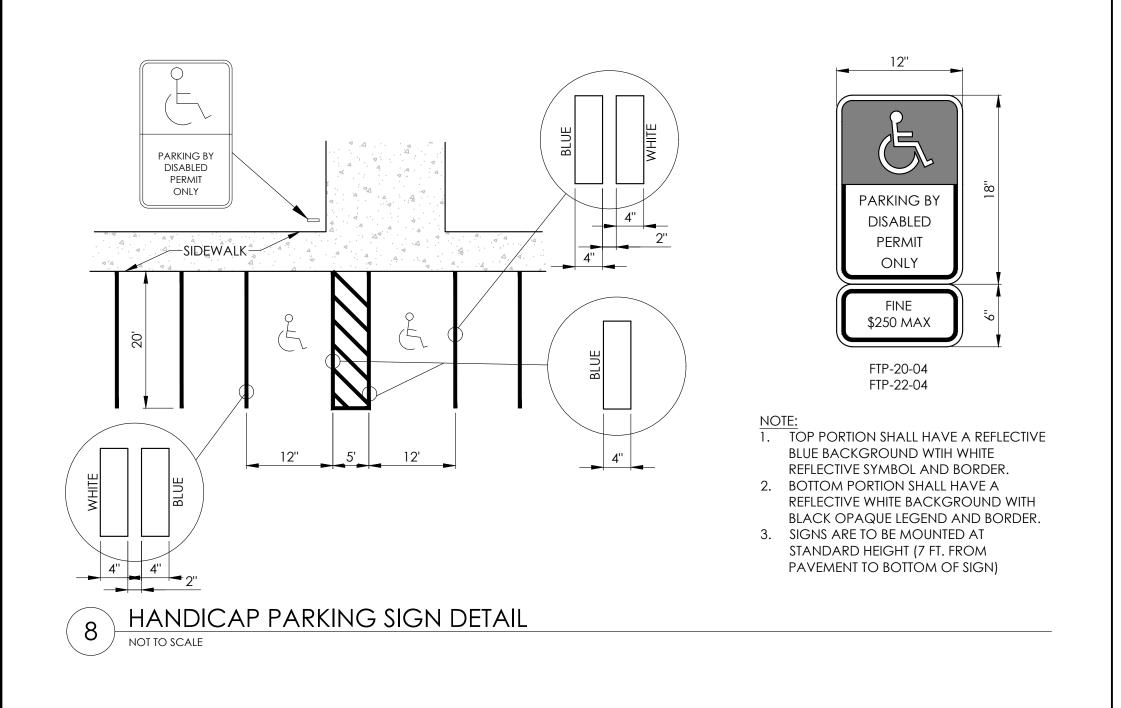
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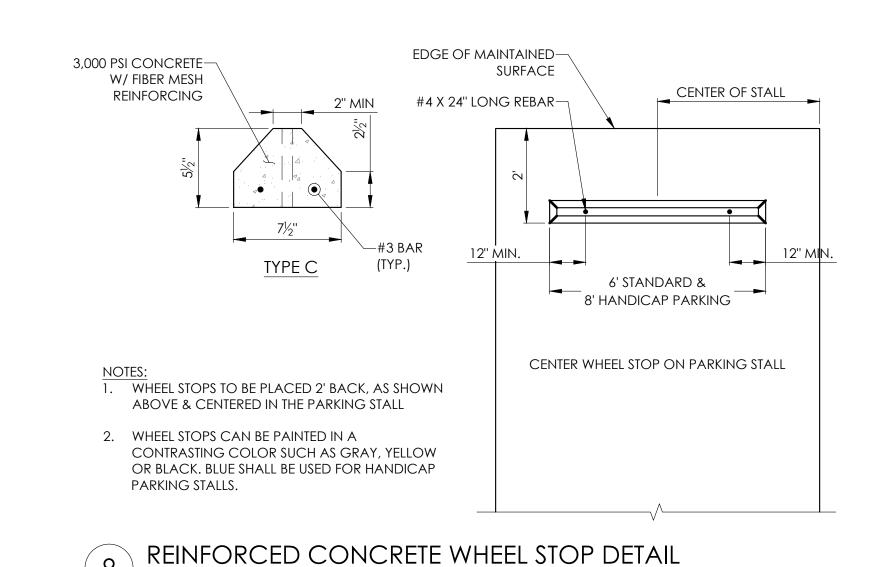
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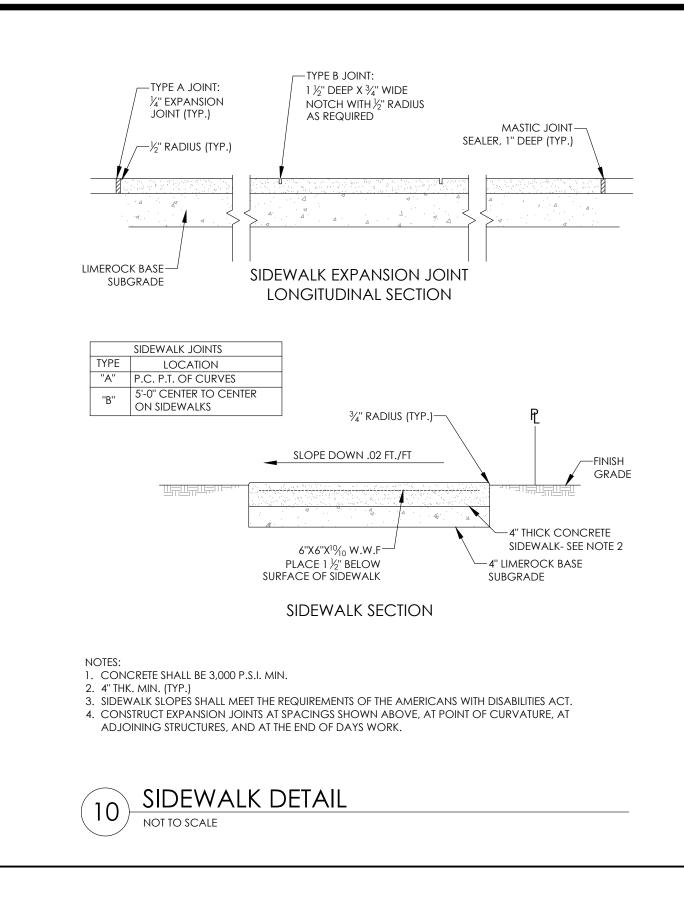
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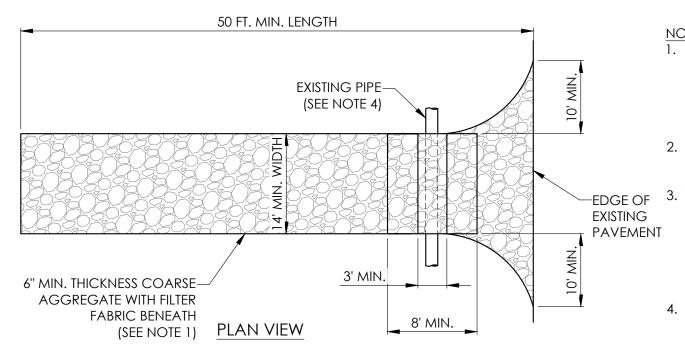
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STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

1. THE ROAD CONSTRUCTION ACCESS SHALL BE STABILIZED USING 6" MINIMUM THICKNESS COARSE AGGREGATE (#3, 4, OR 5, AS PER FDOT SPECIFICATIONS) AND TYPE D-1 FILTER FABRIC (PER FDOT INDEX NO. 199) TO REDUCE EROSION CAUSED BY CONSTRUCTION TRAFFIC AND TO MINIMIZE TRANSPORT OF SEDIMENT ONTO THE EXISTING PAVED ROADWAY.

2. AGGREGATE SHALL BE APPLIED IMMEDIATELY AFTER GRADING OR THE COMPLETION OF UTILITY CONSTRUCTION WITHIN THE RIGHT OF WAY.

-EDGE OF 3. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD AND SEDIMENTS ONTO THE PUBLIC STREETS OR GUTTERS. PERIODIC TOP-DRESSING WITH STONE WILL BE NECESSARY AND AN ADEQUATE SUPPLY SHOULD BE HANDY. ANY SEDIMENTS OR MUD SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS SHALL BE RECOVERED AND CLEANED UP IMMEDIATELY.

> 4. EXISTING PIPE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. THE BERM SHALL BE A MINIMUM OF 8 FEET IN TOTAL LENGTH AND THE ELEVATED LENGTH OF THE BERM SHALL BE AT LEAST 3 FEET LONG.

12 IN. LIMEROCK STABILIZED SUBGRADE (*SEE NOTE No. 2)

1. 6" GRADED AGGREGATE BASE (GAB) COMPACTED TO A MINIMUM DENSITY OF 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557/AASHTO T-180) AND EXHIBIT A MINIMUM LIMEROCK BASE RATIO (LBR) OF 100. THE GAB MATERIAL SHALL COMPLY WITH THE LATEST EDITION OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 204. SEE

1" 9.5 MM SUPERPAVE 1.5" 12.5 MM SUPERPAVE

6 IN. G.A.B.

(*SEE NOTE No.1)

2. 12" LIMEROCK STABILIZED SUBGRADE WITH MINIMUM LIMEROCK BEARING RATIO (LBR) OF 40. SUBGRADE SHALL BE COMPACTED TO AT LEAST 98% OF THE MODIFIED



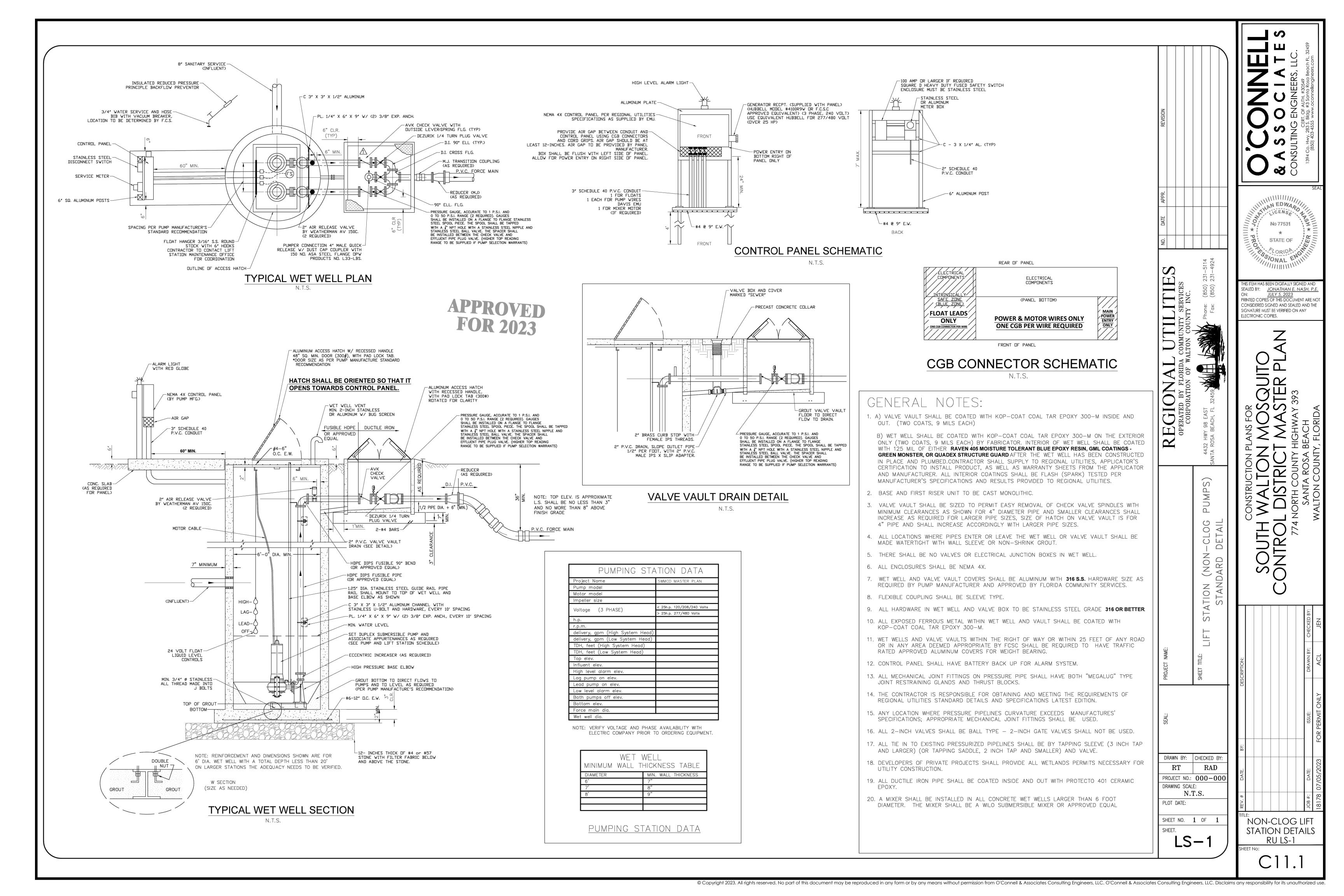
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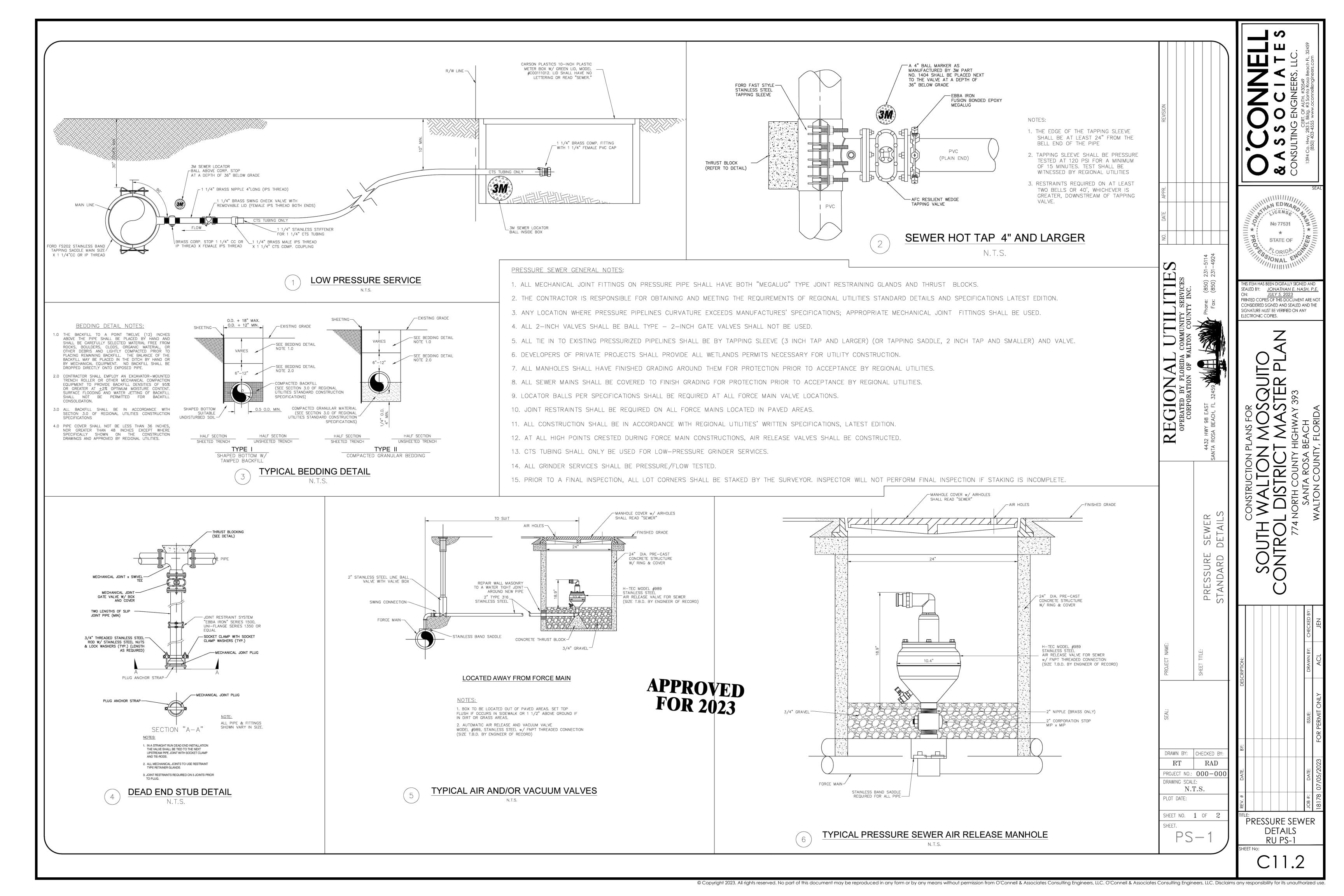
GEOTECHNICAL REPORT. PROCTOR (AASHTO T-180) MAXIMUM DRY DENSITY. SEE GEOTECHNICAL REPORT. PAVEMENT DETAIL

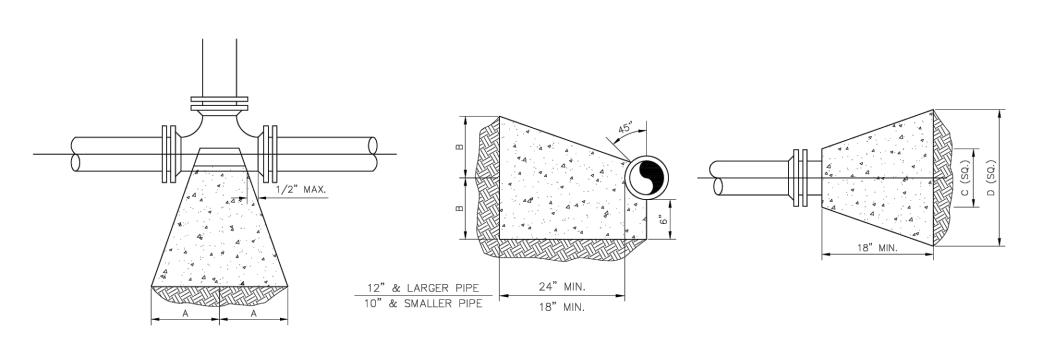
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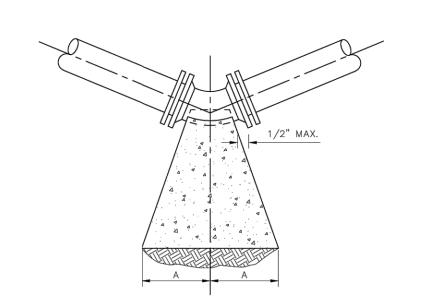
SIZ		TEE	CU. FT.
312	A	В	CONC.
6"	10"	12"	3.5
8"	13"	16"	5.4
10"	16"	20"	9.4
12"	18"	24"	16.6
14"	22"	27"	23.2
16"	24"	30"	28.6
18"	26"	32"	36.2

NOTES:

1. ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED SOIL.
2. THESE TABLES SHOW MINIMUM SIZE THRUST BLOCKS FOR GOOD SOIL. (A-1 THRU A-3, CLEAN SAND AND GRAVELS)
3. POOR SOIL (A-4 THRU A-8, SILTY SOILS, CLAYS, MUCK AND PEAT) WILL REQUIRE LARGER THRUST BLOCKS.

CIZE	PL	UG	CU. FT.		
SIZE	С	D	CONC.		
6"	10"	21"	2.6		
8"	12"	29"	4.5		
10"	14"	36"	6.9		
12"	16"	41"	9.0		
14"	18"	48"	12.3		
16"	20"	54"	15.2		
18"	22"	60"	19.2		





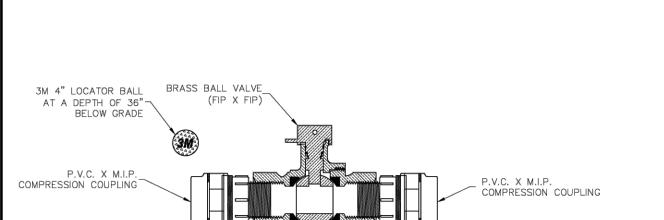
NOTES:

- ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED SOIL.
 THESE TABLES SHOW MINIMUM SIZE THRUST BLOCKS FOR GOOD SOIL.
- (A-1 THRU A-3, CLEAN SAND AND GRAVELS)
- POOR SOIL (A-4 THRU A-8, SILTY SOILS, CLAYS, MUCK AND PEAT)
 WILL REQUIRE LARGER THRUST BLOCKS.

12" & LARGER PIPE	24" MIN.
O" & SMALLER PIPE	10" MINI

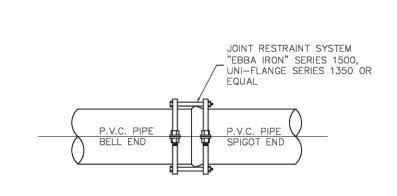
SIZE	1/4 BENDS		CU. FT.	1/8 BENDS		CU. FT.	1/16 BENDS		CU. FT.
	А	В	CONC.	А	В	CONC.	А	В	CONC.
6"	16"	10"	3.2	9"	10"	3.0	6"	8"	1.3
8"	22"	13"	7.2	12"	13"	3.7	8"	10"	2.1
10"	26"	17"	11.5	14"	17"	5.9	10"	13"	3.6
12"	29"	21"	21.1	16"	21"	8.6	11"	16"	6.6
14"	35"	24"	29.8	19"	24"	14.9	12"	20"	8.9
16"	38"	27"	37.8	21"	27"	19.1	12"	24"	11.2
18"	42"	29"	47.8	22"	29"	24.2	13"	26"	14.2

2 THRUST BLOCK DETAIL N.T.S.

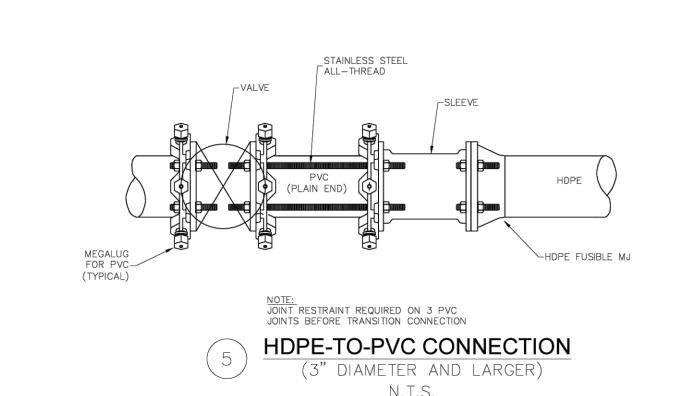


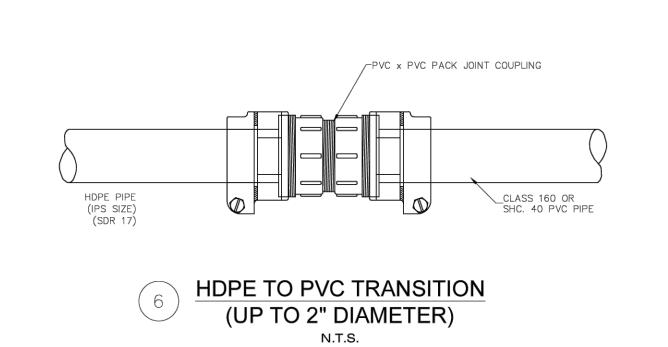
SECTION VIEW

TYPICAL
BRASS BALL VALVE
CONNECTION
N.T.S.

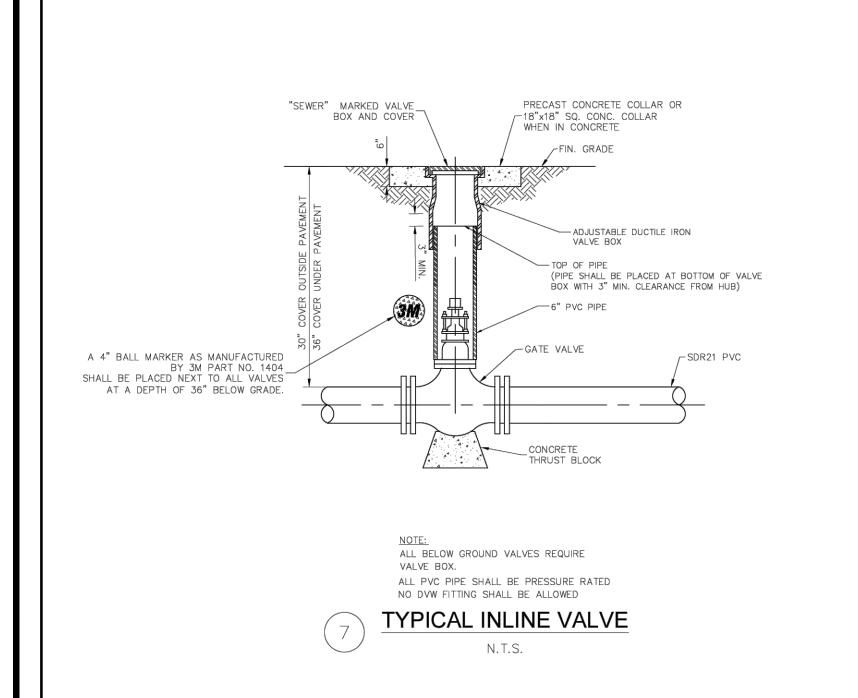


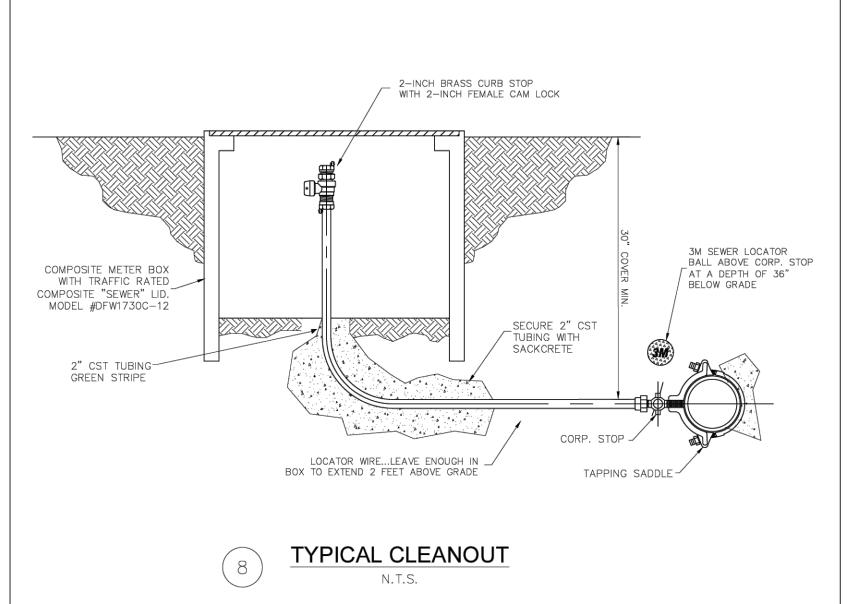
TYPICAL RESTRAINED P.V.C. JOINT

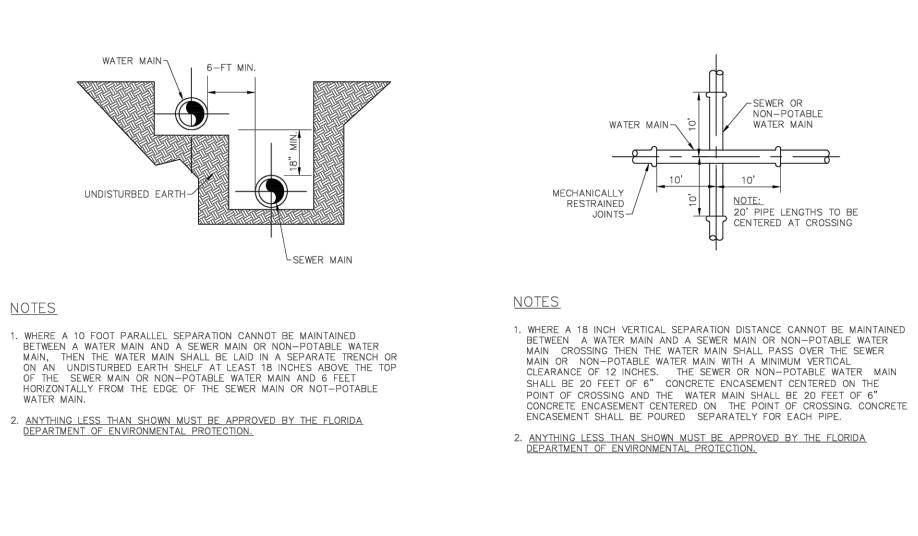




APPROVED FOR 2023







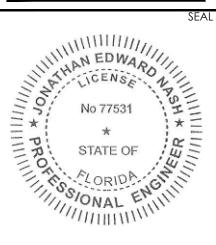
9 WATER/SEWER SEPARATION DETAIL
MUST BE APPROVED BY FDEP

N.T.S.

& A S S O C I A T E CONSULTING ENGINEERS, LLC.

CERT. OF AUTH. #30549

1394 CO. Hwy. 283 S. Bidg. #3 Santa Rosa Beach FL, 32459
(850) 403-4555 www.oconnellengineers.com



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DRAWN BY: CHECKED BY

PROJECT NO.: 000-000

N.T.S.

SHEET NO. 2 OF 2

PS-2

DRAWING SCALE:

PLOT DATE:

RAD

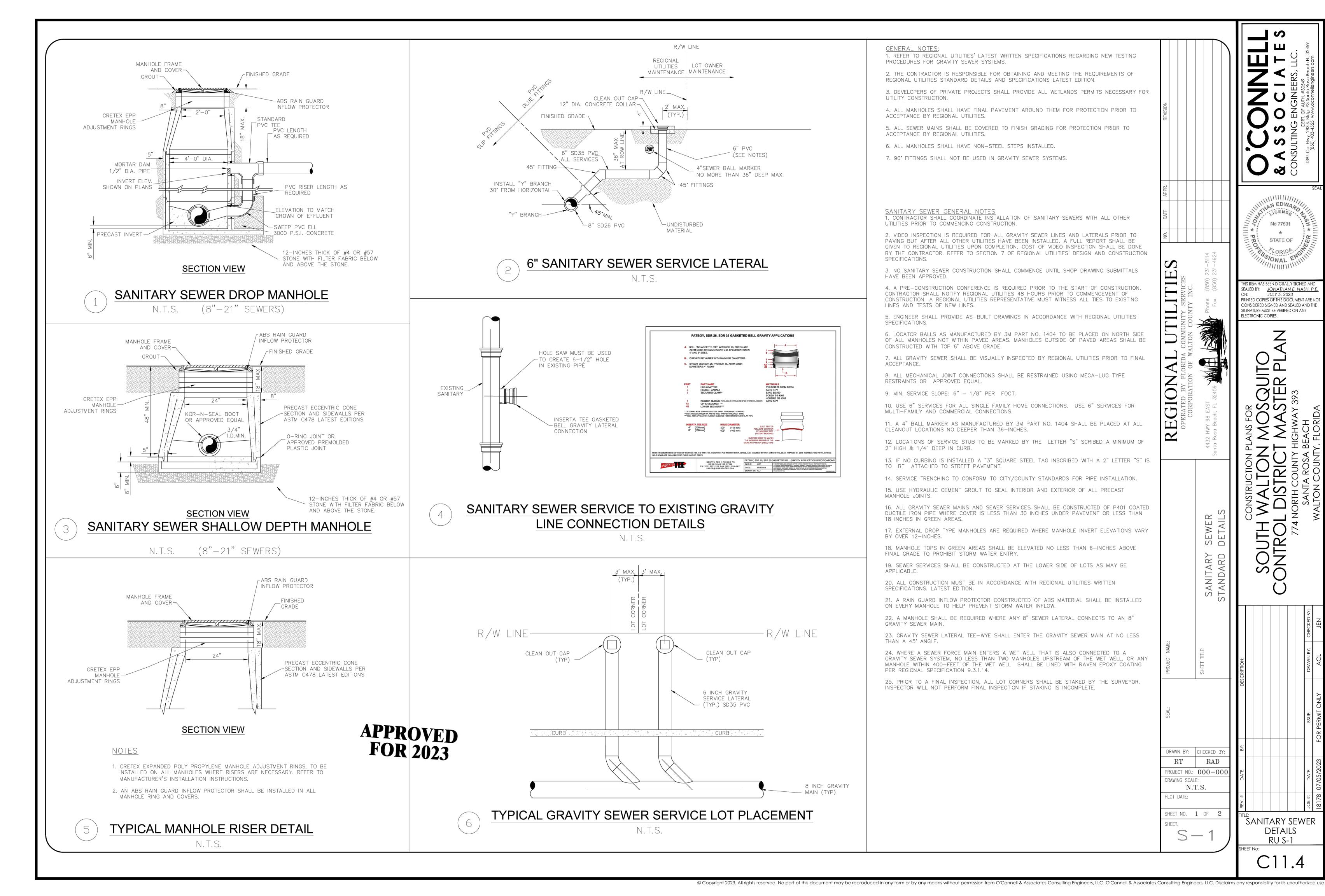
NEV. # DATE. BY: DESCRIPTION:

JOB #: DATE: ISSUE: DRAWN BY: CHECKED BY:

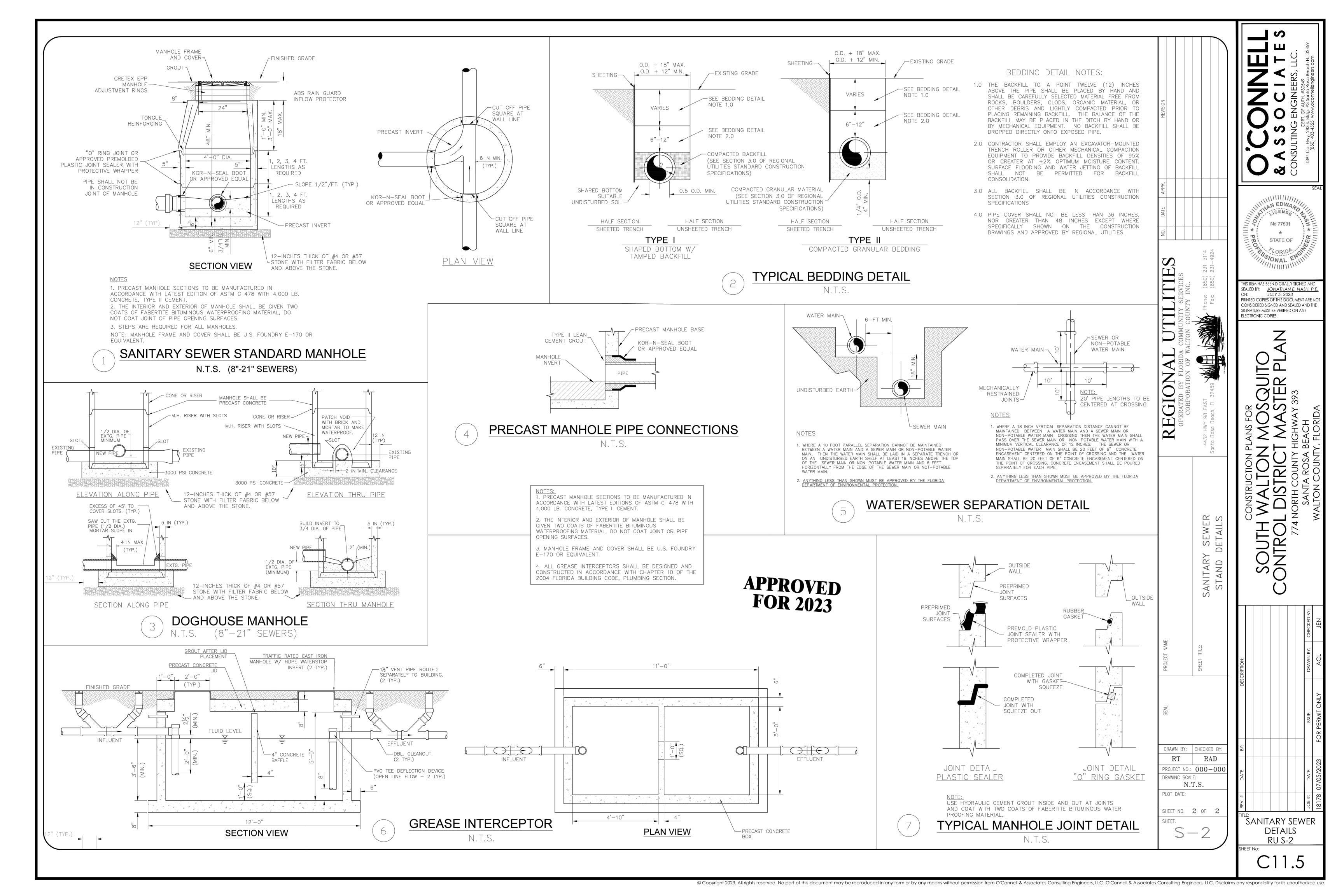
18178 07/05/2023 FOR PERMIT ONLY ACL JEN

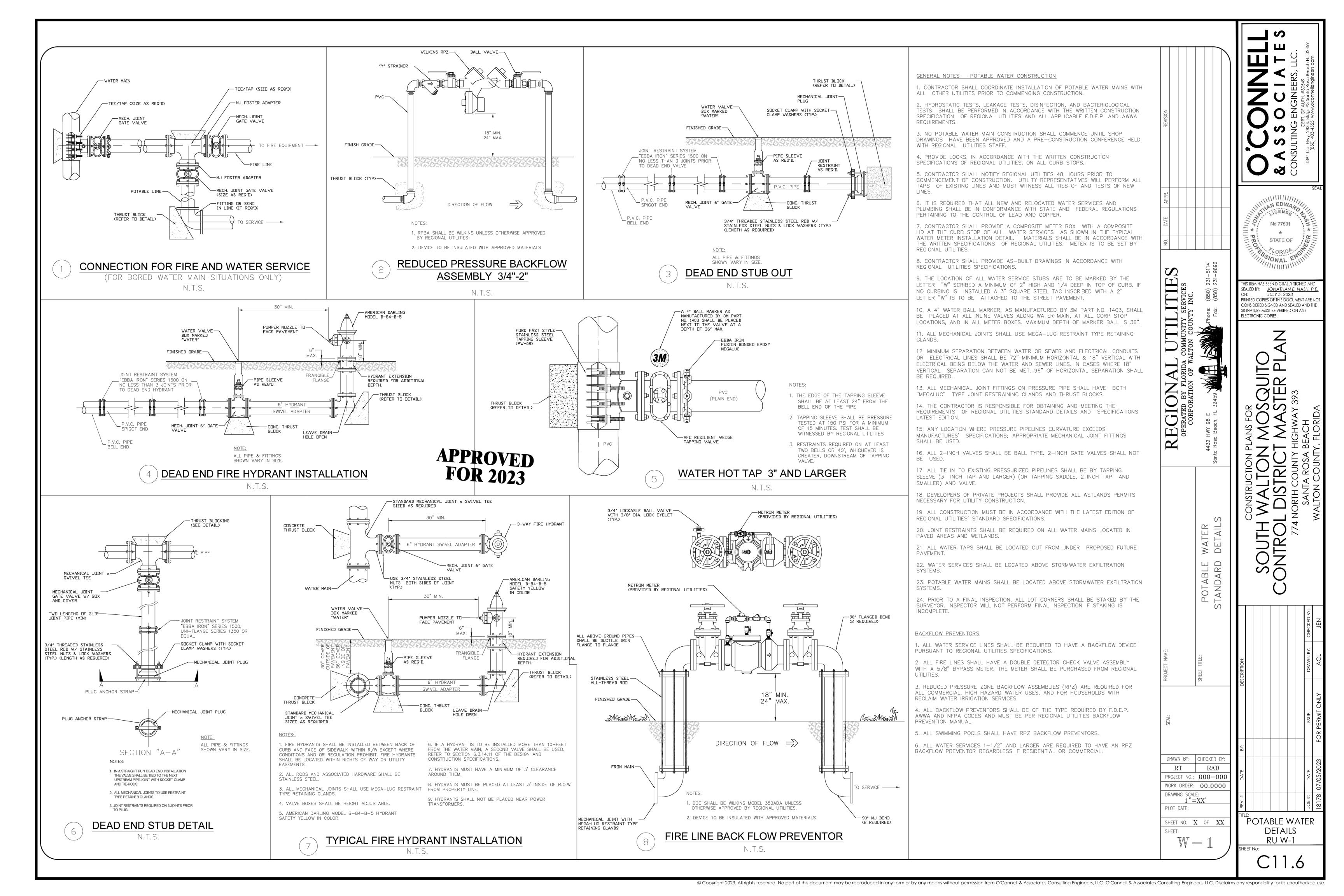
PRESSURE SEWER
DETAILS
RU PS-2
HEET NO:

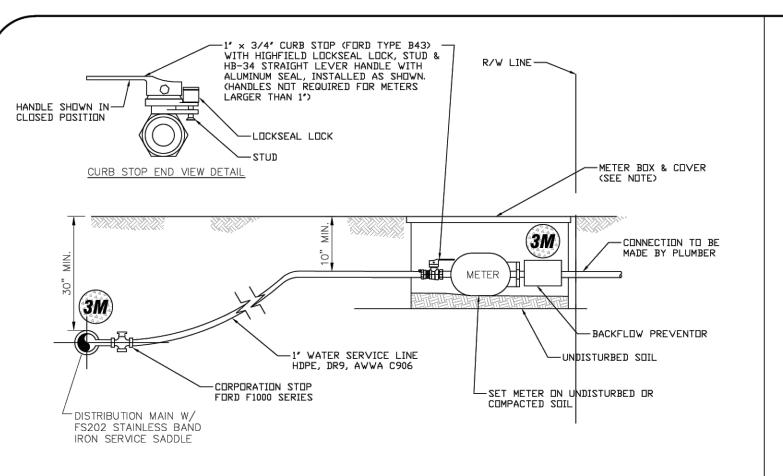
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A 4" BALL MARKER AS MANUFACTURED BY 3M PART NO.1403
SHALL BE PLACED NEXT TO CORPORATION STOP AND IN THE METER BOX. AT A DEPTH OF 36" MAX.

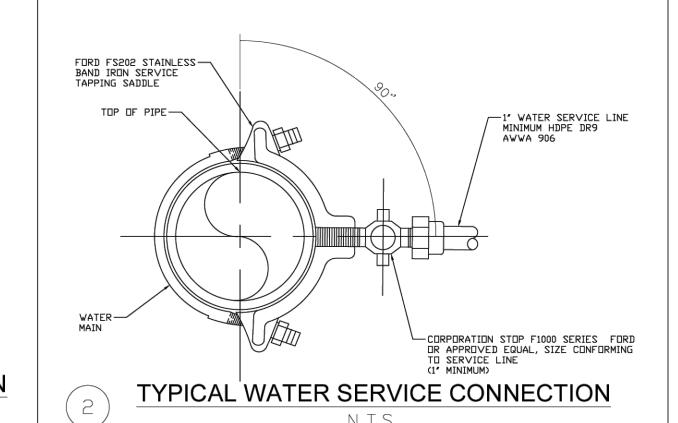
NOTES:
1. 5/8", 3/4", & 1" METERS SHALL BE INSTALLED IN DFW PLASTICS DFW36C-12 COMPOSITE METER BOX WITH DFW36-1A LID. 2. 1-1/2" & 2" METERS SHALL BE INSTALLED IN DFW PLASTICS DFW1730C-12 COMPOSITE METER BOX WITH DFW1730C-1A LID. 3. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ONE METER BOX PER LOT AND THE WATER SERVICE WITH CURB STOP AND LOCKSEAL LOCK SHALL BE STUBBED IN BOX. 4. CONTRACTOR SHALL COORDINATE INSTALLATION OF POTABLE WATER

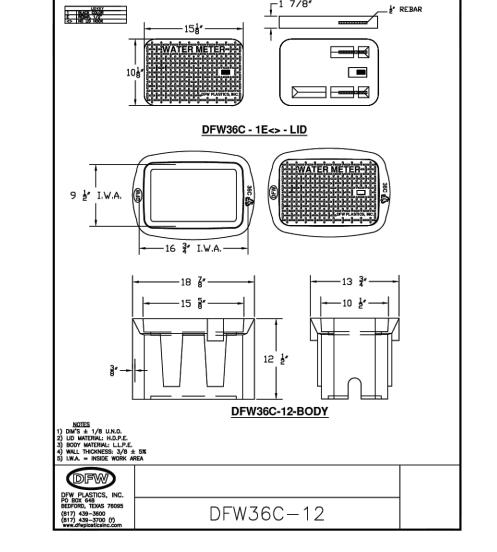
SERVICES WITH ALL OTHER UTILITIES PRIOR TO COMMENCING CONSTRUCTION. 5. NO METERS WILL BE SET UNTIL REGIONAL UTILITIES HAS RECEIVED CLEARANCE TO PLACE THE SYSTEM INTO SERVICE FROM F.D.E.P.

IN ORDER TO RECEIVE CLEARANCE FROM F.D.E.P. THE FOLLOWING

PROCEDURE MUST BE COMPLETED: CONTRACTOR MUST PERFORM PRESSURE TEST, FLUSH AND ARRANGE FOR A FINAL INSPECTION. PRESSURE TEST AND FLUSH MUST BE WITNESSED BY A REGIONAL UTILITIES INSPECTOR. UPON PASSING THE PRESSURE TEST AND FINAL INSPECTION, REGIONAL UTILITIES WILL TAKE BACTERIOLOGICAL TEST. THE ENGINEER FOR THE PROJECT MUST SUBMIT THE BACTERIOLOGICAL TEST RESULTS, AS—BUILT DRAWINGS AND CERTIFICATION OF COMPLETION FORMS TO REGIONAL UTILITIES. REGIONAL UTILITIES WILL THEN SIGN THE COMPLETION FORMS AND FORWARD THEM TO F.D.E.P. WITH COPIES OF THE BACTERIOLOGICAL TEST RESULTS. UPON THEIR REVIEW AND APPROVAL, F.D.E.P. WILL SEND REGIONAL UTILITIES A LETTER GRANTING PERMISSION FOR THE SYSTEM TO BE PLACED INTO OPERATION.

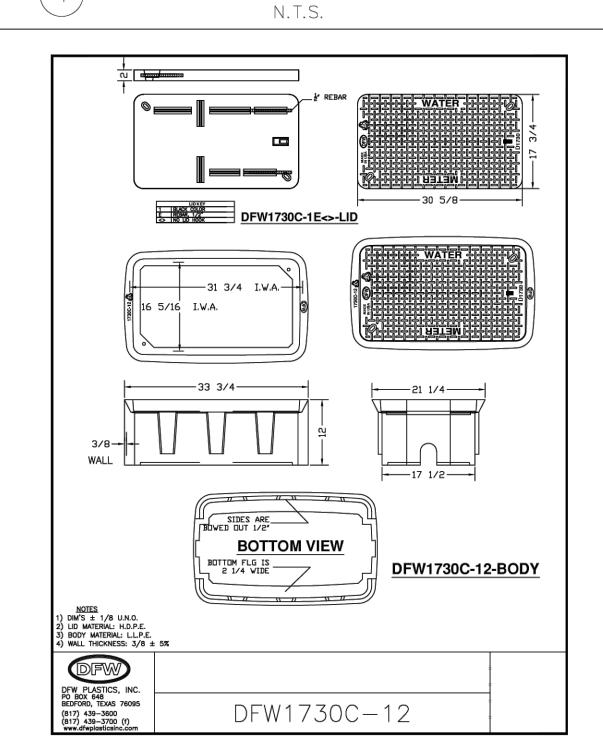
TYPICAL WATER METER INSTALLATION



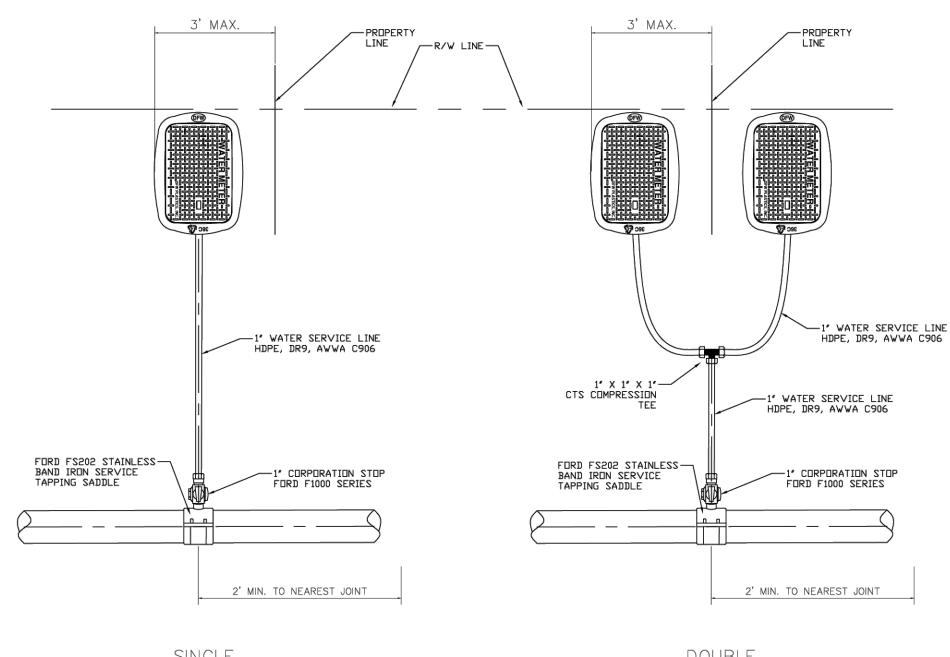


DETAIL NOT IN USE-SEE DETAIL 5

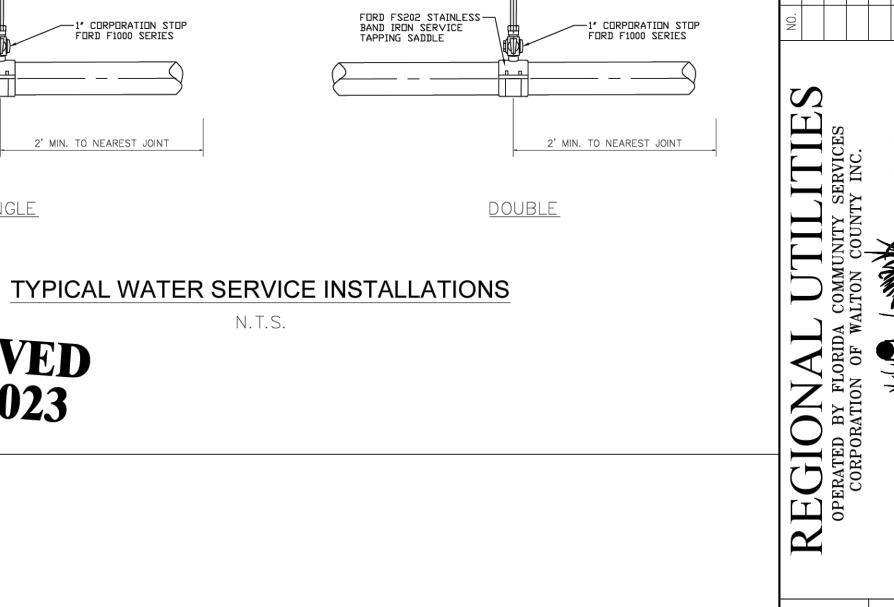
COMPOSITE METER BOX WITH TRAFFIC RATED COMPOSITE LID 3/4" - 1" METERS DFW PLASTICS, INC.

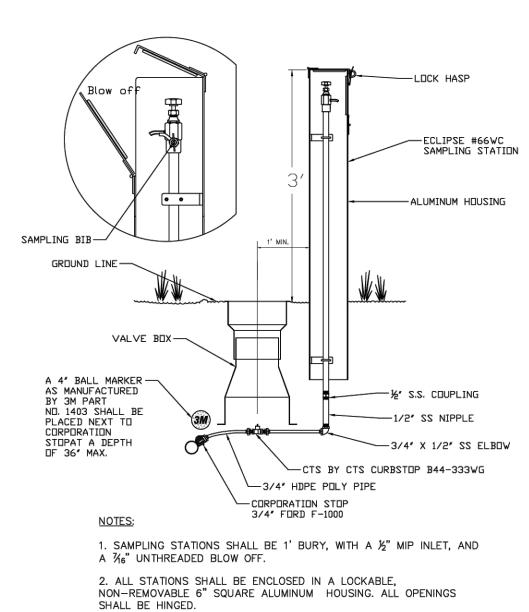


COMPOSITE METER BOX WITH TRAFFIC RATED COMPOSITE LID 1-1/2" - 2" METERS DFW PLASTICS, INC.



APPROVED FOR 2023





3. WHEN OPEN, THE STATION SHALL REQUIRE NO KEY FOR OPERATION, AND WATER WILL FLOW IN AN ALL STAINLESS STEEL WATERWAY. 4. ALL WORKING PARTS SHALL BE OF STAINLESS STEEL AND SERVICEABLE FROM ABOVE GROUND WITH NO DIGGING OR REPLACEMENT

5. A SLOW TURNING VALVE WITH 6 TURNS TO OPEN WILL CONTROL THE WATER FLOW, AND BE LOCATED AFTER THE SAMPLING BIB. 6. AS MANUFACTURED BY KUPFERLE FOUNDRY, ST. LOUIS MO. 63102. MODEL # 66WC, OR APPROVED EQUAL.

TYPICAL WATER SAMPLING STATION

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DRAWN BY: CHECKED B

PROJECT NO.: 000-000

WORK ORDER: 00.0000

1"=XX

SHEET NO. X OF XX

DRAWING SCALE:

PLOT DATE:

RAD

POTABLE WATER

DETAILS

RU W-2

AN EDWAR

CENSE

No 77531

STATE OF

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY: JONATHAN E. NASH, P.E

VALVE (TYP.) WILKINS RPZ BACKFLOW PREVENTOR-90° FLANGE — BEND METER STAINLESS STEEL-ALL-THREAD ROD -STAINLESS STEEL ALL-THREAD ROD FUSION BONDED -EPOXY D.I. PIPE 24" MAX.

TOP VIEW

NOTES:

1. DUCTILE IRON PIPE SHALL BE COMPATIBLE WITH METER SIZE.

2. DUCTILE IRON PIPE SHALL CONFORM TO REGIONAL UTILITIES

3. ENTIRE ASSEMBLY MUST BE INSULATED.

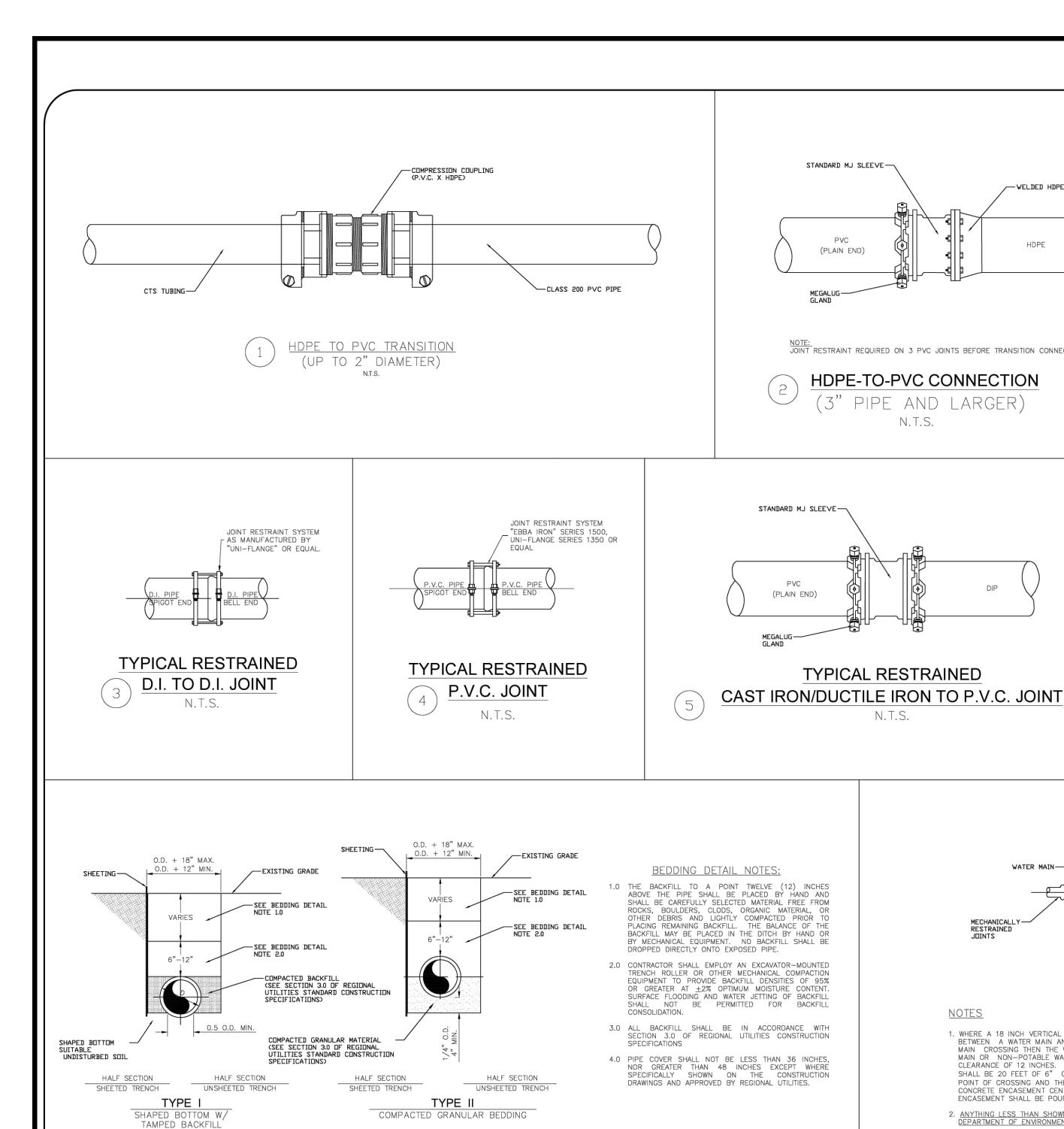
4. THE BACKFLOW PREVENTOR SHALL BE LOCATED DOWN STREAM FROM THE METER.

5. ALL ABOVE GROUND PIPE AND FITTINGS SHALL BE FLANGED.

3" OR LARGER ABOVE GROUND METER & RPZ **BACKFLOW INSTALLATION**

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TYPICAL BEDDING DETAIL

12" & LARGER PIPE

TEE CU. FT.

A B CONC.

6" 10" 12" 3.5

8" 13" 16" 5.4

10" 16" 20" 9.4

 12"
 18"
 24"
 16.6

 14"
 22"
 27"
 23.2

 16"
 24"
 30"
 28.6

18" | 26" | 32" | 36.2

10" & SMALLER PIPE

18" MIN.

. ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED

2. THESE TABLES SHOW MINIMUM SIZE THRUST BLOCKS FOR

3. POOR SOIL (A-4 THROUGH A-8, SILTY SOILS, CLAYS, MUCK

GOOD SOIL. (A-1 THROUGH A-3, CLEAN SAND AND GRAVEL)

THRUST BLOCK DETAIL

AND PEAT) WILL REQUIRE LARGER THRUST BLOCKS.

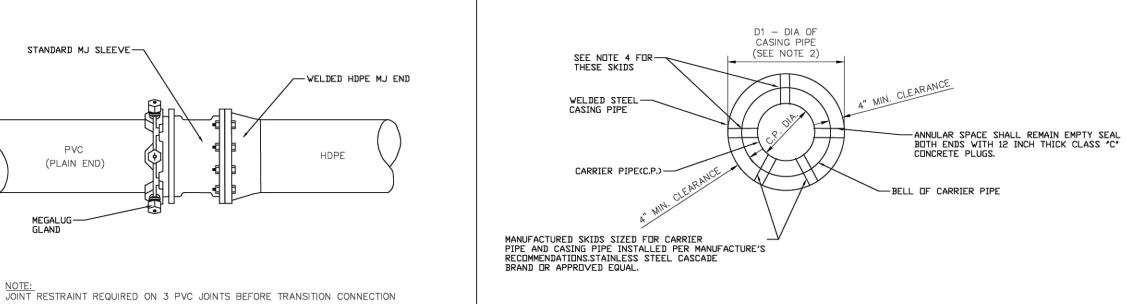
PLUG CU. FT.

C D CONC.

6" 10" 21" 2.6

8" 12" 29" 4.5 10" 14" 36" 6.9 12" 16" 41" 9.0 14" 18" 48" 12.3 16" 20" 54" 15.2

18" 22" 60" 19.2



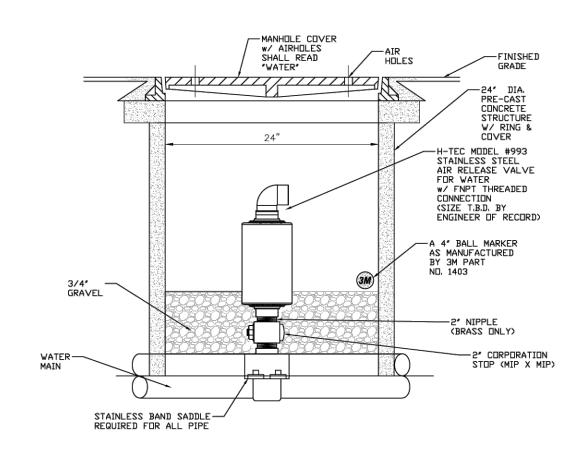
TYPICAL CASING DETAIL

CASING PIPE SIZES (MIN.)												
CARRIER PIPE NOM. DIA. (D2)	4"	6"	8"	10"	12"	14"	16"	18"	22"	24"	30"	36"
CASING PIPE NOM. DIA. (D1)	8"	12"	16"	22"	24"	30"	30"	30"	36"	36"	48"	60"
HWY X-ING WALL THKINCHES	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.250	0.375	0.500

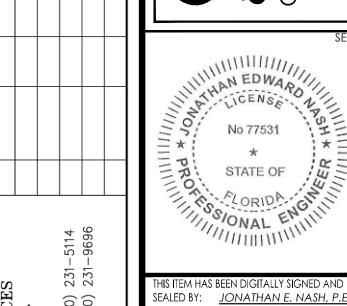
NOTES:
1. MIN. COVER TO TOP OF CASING SHALL BE 36". 2. THE INSIDE DIAMETER OF THE CASING PIPE SHALL BE 4" GREATER THAN THAN THE OUTSIDE DIAMETER OF THE CARRIER PIPE BELL OR COUPLING. 3. ALL JACK AND BORE CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION UTILITY ACCOMMODATION MANUAL, 4. SKIDS SHALL BE SECURED TO THE CARRIER PIPE AS PER MANUFACTURERS

RECOMMENDATIONS. (MINIMUM OF 3 SKIDS PER PIPE JOINT.) 5. ROTATION OF CARRIER PIPE INSIDE THE CASING PIPE WILL NOT BE PERMITTED. ALL JOINTS WITHIN THE CASING SHALL HAVE JOINT RESTRAINTS INSTALLED. 6. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING OF CASING AND CARRIER PIPE INSTALLATION FOR APPROVAL PRIOR TO PURCHASING MATERIALS. 7. CASING SHALL EXTEND A MINIMUM OF 8 FEET PAST EDGE OF PAVEMENT.

WATER MAIN CROSSING FOR ROADWAYS



H-TEC 2-INCH **AUTOMATIC AIR** RELEASE VALVE MODEL #993 STAINLESS STEEL N.T.S.



ITIE; ON: <u>JULY 5, 2023</u>
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GERATED BY FLORIDA CORPORATION OF WAI 区区

H I

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-FINISHED GRAD

—6" PVC PIPE

METER BOX & COVER (SEE NOTE)

—UNDISTURBED SOIL

4 4" BALL MARKER AS MANUFACTURED BY 3M PART NO.1403

ALL BELOW GROUND VALVES REQUIRE VALVE BOX.

CAM & GROOVE QUICK CONNECT w/ --DUST CAP

HDPE, DR9, AWWA C906

— A 4" BALL MARKER AS MANUFACTURED BY 3M PART NO. 1403 SHALL BE PLACED NEXT TO CORPORATION STOP AT A DEPTH OF 36" MAX.

BELOW GRADE FLUSH POINT

1. FLUSH POINTS SHALL BE INSTALLED BETWEEN BACK OF CURB AND FACE

OF SIDEWALK WITHIN R/W EXCEPT WHERE CONDITIONS AND OR REGULATION PROHIBIT. FLUSH POINTS SHALL BE LOCATED WITHIN RIGHTS OF WAY OR UTILITY EASEMENTS.

2. METER BOX AND COVER SHALL BE TRAFFIC RATED. SEE DETAIL #7 ON SHEET W-2.

2" LOCKABLE CURB STOP (FORD TYPE— B43) WITH HIGHFIELD LOCKSEAL LOCK

VALVE AND BOX DETAIL

SHALL BE PLACED NEXT TO ALL VALVES AT A DEPTH OF 36" MAX.

-ADJUSTABLE DUCTILE IRON

(PIPE SHALL BE PLACED AT BOTTOM OF VALVE BOX WITH 3" MIN. CLEARANCE FROM HUB)

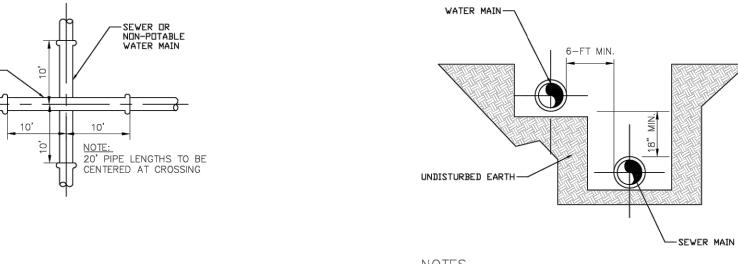
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WAT DET OTABLE ANDARD

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DRAWN BY: | CHECKED B' PROJECT NO.: 000-000WORK ORDER: 00.0000 DRAWING SCALE: 1"=XX PLOT DATE: SHEET NO. f X OF f XX

POTABLE WATER DETAILS W-3RU W-3



HDPE-TO-PVC CONNECTION

N.T.S.

TYPICAL RESTRAINED

N.T.S.

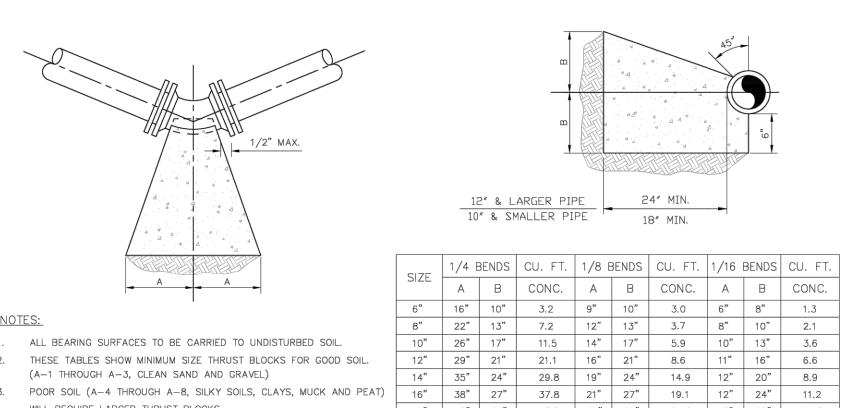
1. WHERE A 18 INCH VERTICAL SEPARATION DISTANCE CANNOT BE MAINTAINED BETWEEN A WATER MAIN AND A SEWER MAIN OR NON-POTABLE WATER MAIN CROSSING THEN THE WATER MAIN SHALL PASS OVER THE SEWER MAIN OR NON-POTABLE WATER MAIN WITH A MINIMUM VERTICAL CLEARANCE OF 12 INCHES. THE SEWER OR NON-POTABLE WATER MAIN SHALL BE 20 FEET OF 6" CONCRETE ENCASEMENT CENTERED ON THE POINT OF CROSSING AND THE WATER MAIN SHALL BE 20 FEET OF 6" CONCRETE ENCASEMENT CENTERED ON THE POINT OF CROSSING. CONCRETE ENCASEMENT SHALL BE POURED SEPARATELY FOR EACH PIPE.

2. ANYTHING LESS THAN SHOWN MUST BE APPROVED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

1. WHERE A 10 FOOT PARALLEL SEPARATION CANNOT BE MAINTAINED BETWEEN A WATER MAIN AND A SEWER MAIN OR NON-POTABLE WATER MAIN, THEN THE WATER MAIN SHALL BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER MAIN OR NON-POTABLE WATER MAIN AND 6 FEET HORIZONTALLY FROM THE EDGE OF THE SEWER MAIN OR NOT-POTABLE 2. ANYTHING LESS THAN SHOWN MUST BE APPROVED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

WATER/SEWER CROSSING AND SEPARATION DETAIL

APPROVED FOR 2023



WILL REQUIRE LARGER THRUST BLOCKS.
 18"
 42"
 29"
 47.8
 22"
 29"
 24.2
 13"
 26"
 14.2

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 ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED SOIL. 3. POOR SOIL (A-4 THROUGH A-8, SILKY SOILS, CLAYS, MUCK AND PEAT) THRUST BLOCK DETAIL

DISTRIBUTION MAIN W/ FS202 STAINLESS BAND IRON SERVICE SADDLE

ELECTRICAL GENERAL NOTES

- A. PROVIDE BUSHINGS ON ALL CONDUIT.
- B. COMPLY WITH ALL LOCAL CODE, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, THE STATE BUILDING CODE AND THE NATIONAL ELECTRIC CODE. OBTAIN ALL PERMITS REQUIRED BY LOCAL ORDINANCES.
- C. OBTAIN ARCHITECTS APPROVAL OF ALL LIGHT FIXTURES, ETC. PRIOR TO PURCHASING.
- D. THE ELECTRICAL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ALL NOT SO INSTALLED SHALL BE REMOVED AND REPLACED AT NO COST TO THE OWNER.
- E. PROVIDE GROUNDING PER NATIONAL ELECTRIC CODE.
- F. THE CONTRACTOR SHALL LEAVE THE ENTIRE ELECTRICAL SYSTEM INSTALLED IN PROPER WORKING ORDER, AND SHALL REPLACE WITHOUT ADDITIONAL COST, ALL WORK OR MATERIAL WHICH MAY DEVELOP DEFECTS, (ORDINARY WEAR AND TEAR OR DAMAGE RESULTING FROM IMPROPER HANDLING EXCEPTED) WITHIN A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.

ELECTRICAL LEGEND

□→ POLE MOUNTED FIXTURE

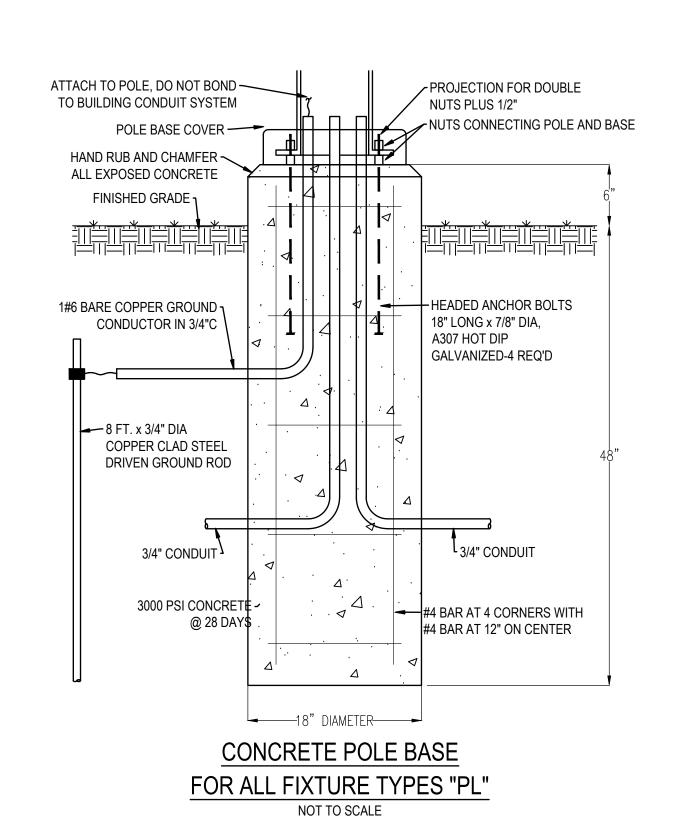
GENERAL NOTE THIS PLAN IS TO CLARIFY LOCATION OF POLES AND FIXTURES FOR PHOTOMETRIC CALCULATION PURPOSES ONLY. ALL POWER AND CONTROL REQUIREMENTS TO BE PROVIDED DURING THE

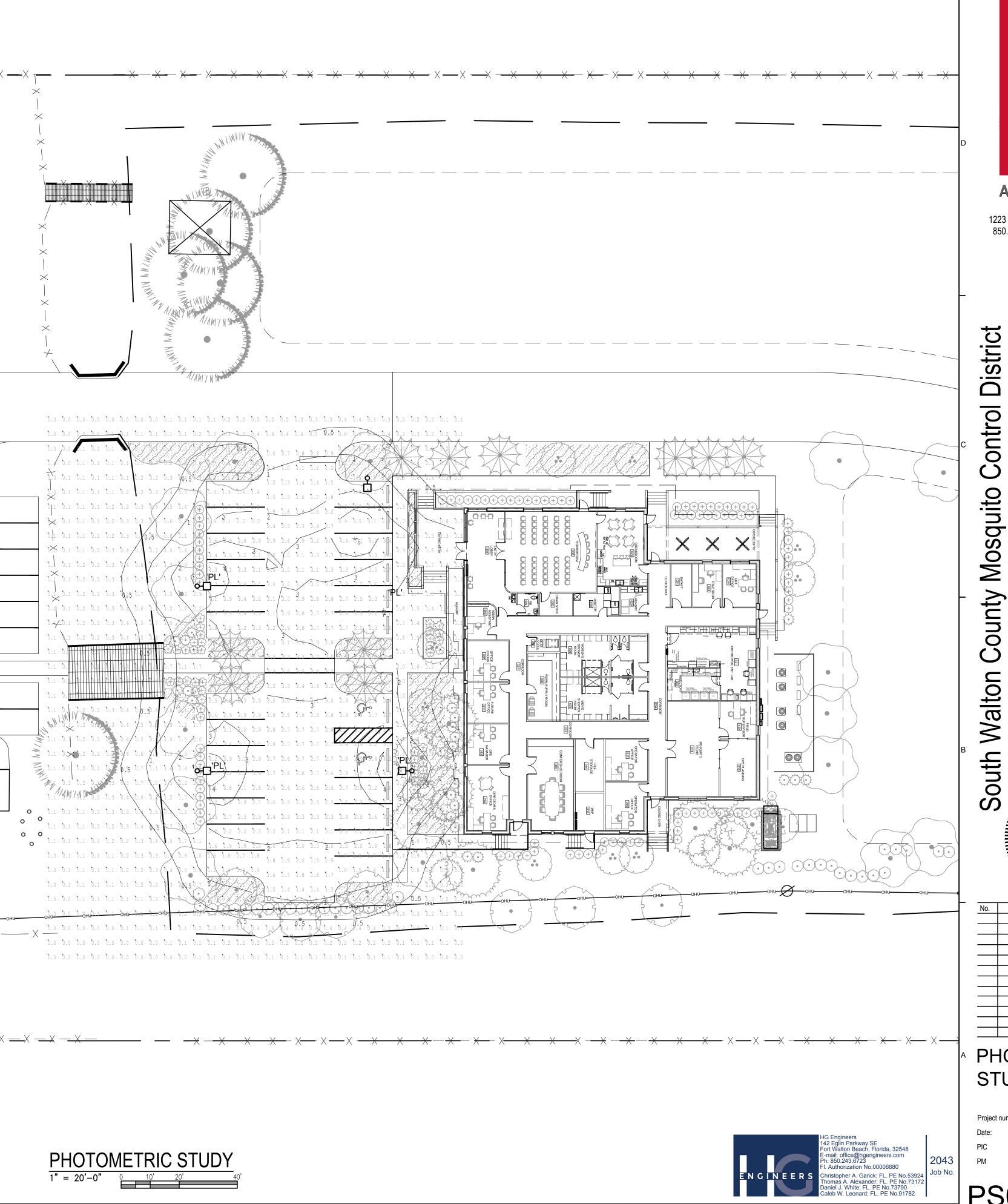
CONSTRUCTION PROCESS.

	Lumi	naire Sc	hedule		
Ī	Qty	Symbol	Label	LLF	Description
	4	8	Fixture PL	0.900	BA1-L110-740-T4-F-S-BLK-DIM-UNV

Calculation Summa	ary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Parkling Lot	Illuminance	Fc	2.72	5.1	0.6	4.53	8.50
Spill	Illuminance	Fc	0.68	4.20	0.00	N/A	N/A

	LIGHTING FIXTURE SCHEDULE											
Project:	Project: 2043 - South Walton Mosquito Admin Bldg											
Note:	Note: Per electrical specifications, alternate fixtures shall be submitted to the engineer for prior approval a minimum of (10) ten business days prior to bid date. Any alternate fixtures not submitted for prior approval will not be reviewed.											
Luminaire Designation	Manufacturer Catalog Number											
PL	PL H.E. WILLIAMS VA1-L110-740-T4-F-S-BLK-DIM-UNV 120 110 LED >70 4000 POLE MOUNT 20'-0" AFF TENON MOUNT								TENON MOUNT			
POLE	VALMONT	R-200050506S4-P2-DBL	N/A	N/A	N/A	N/A	N/A	CONCRETE ANCHOR	TENON TOP			







ARCHITECTS

DAG Architects, AAC000745 1223 Airport Road Destin, Florida 32541 850.837.8152 www.dagarchitects.com

PERMIT SET

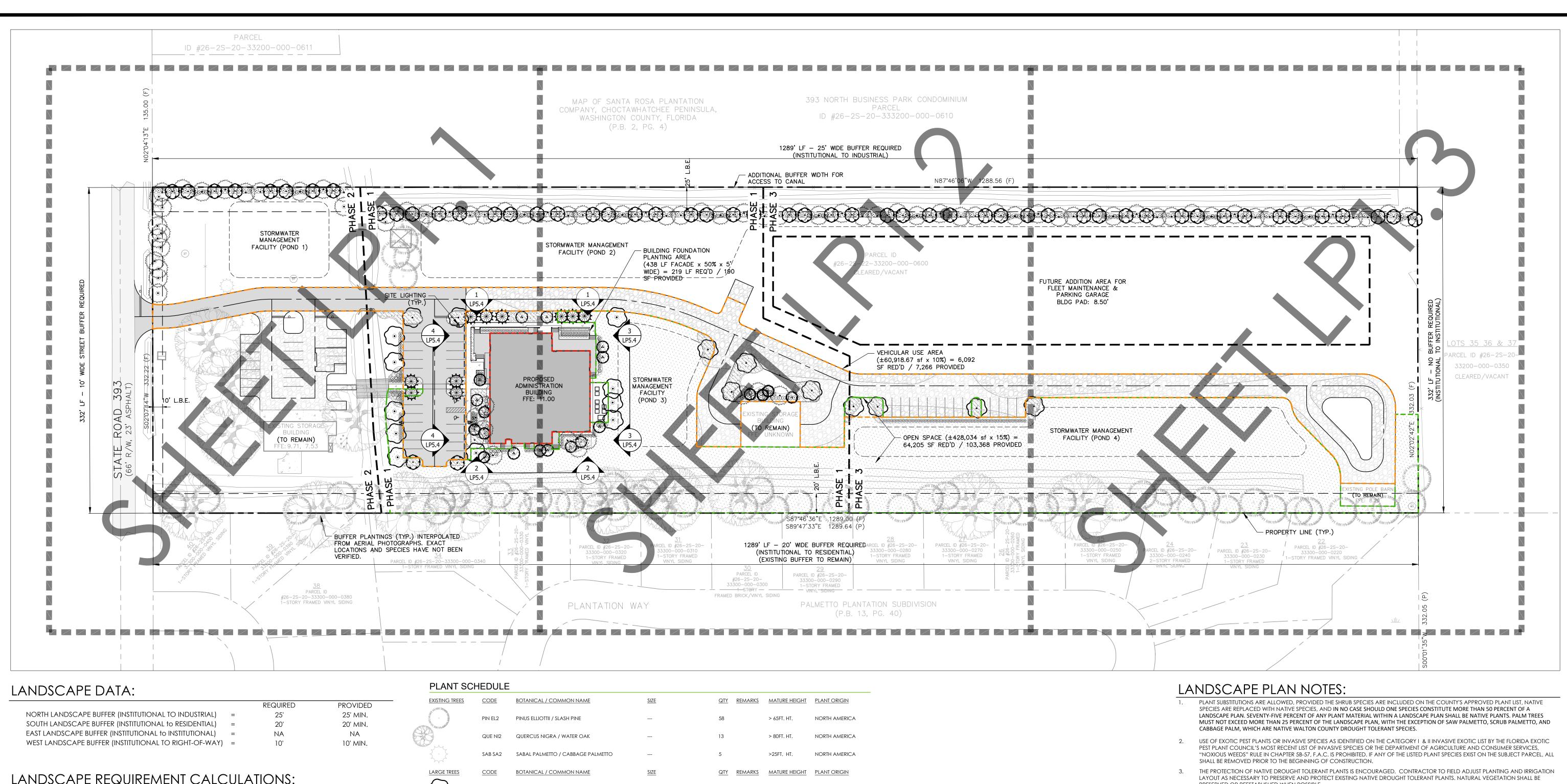
Headquarters Building

No.	Description	Date

PHOTOMETRIC STUDY

18106 Project number: 06-20-2023

PS001



18 - 36IN. HT. NORTH AMERICA

EXTENSION TO THE REGISTRESS OF THE
GENERAL LANDSCAPING: A MINIMUM OF 15% OF THE PROJECT SITE: 428,034.01 SF
(PER SEC. 2.02.32 F.1.)

REQUIRED AREA = 64,205 SF

PROVIDED AREA = 103,368 SF

INTERIOR PLANTING AREA: A MINIMUM OF 10% OF THE GROSS AREA OF THE INTERIOR VEHICULAR USE AREA SHALL BE LANDSCAPED: 60,918.67 SF (PER SEC. 5.01.02.)

REQUIRED AREA = 6,092 SF PROVIDED AREA = 7,266 SF

REQUIRED PLANTS = 16 LANDSCAPE ISLANDS x 1TREE AND 3 SHRUBS PER ISLAND = 16 TREES AND 48 SHRUBS

PROVIDED TREES = 16 TREES AND 48 SHRUBS

BUFFER ZONES: NORTH

= 1,288 LF x 25' WIDE (TO BE INSTALLED IN FUTURE PHASE) 5 CANOPY TREES/100 LF: $(1,288 \text{ LF}/100 \text{ LF}) \times 5 = 65$

4 UNDERSTORY TREES/100 LF: (1,288 LF/100 LF) x 4 = 52 $(1,288 LF/100 LF) \times 20 = 258$ 20 SHRUBS/100 LF:

= 1,289 LF x 20' WIDE (EXISTING BUFFER TO SATISFY REQUIREMENT)

4 CANOPY TREES/100 LF: $(1,289 \text{ LF}/100 \text{ LF}) \times 4 = 52$

3 UNDERSTORY TREES/100 LF: (1,289 LF/100 LF) x 3 = 39 16 SHRUBS/100 LF: $(1,289 LF/100 LF) \times 16 = 207$

EAST = 332 LF x 0' WIDE (NO BUFFER REQUIRED)

= 332 LF x 10' WIDE 1CANOPY TREE / 25' OC: $(332 LF/25 LF) \times 13 = 13$

BUILDING FOUNDATION LANDSCAPING (50% OF BLDG. FACADE LENGTH x 5' WIDE)

REQUIRED (438 LF x 50%) PROVIDED (5' WIDE MIN.)

= 219 LF $= 285 \, \text{SF}$

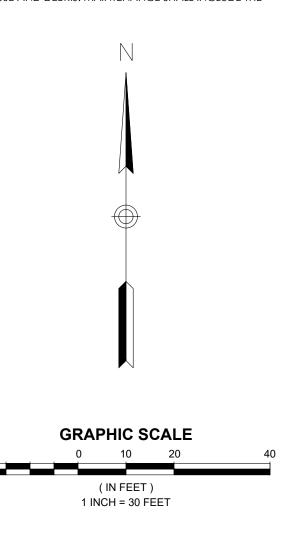
1 SHRUB REQ'D / 5 LF OF BLDG. FRONTAGE (219 LF / 5 LF) = 44 SHRUBS BUILDING FOUNDATION SHRUBS PROVIDED = 81 SHRUBS

	OOBL	BOTH WICH RET CONTINUENT OF WILL	OILL		<u> </u>	- CENTRALITIES	1410 CLOTTE TIELOTTI	<u> </u>
A STATE OF THE STA	PIN EL2	PINUS ELLIOTTII / SLASH PINE			58		> 65FT. HT.	NORTH AMERICA
	QUE NI2	QUERCUS NIGRA / WATER OAK			13		> 80FT. HT.	NORTH AMERICA
	SAB SA2	SABAL PALMETTO / CABBAGE PALMETTO			5		>25FT. HT.	NORTH AMERICA
LARGE TREES	CODE	BOTANICAL / COMMON NAME	SIZE		QTY	REMARKS	MATURE HEIGHT	PLANT ORIGIN
$\langle \cdot \rangle$	ACE SOU	ACER BARBATUM / SOUTHERN SUGAR MAPLE	8` HT., 3" CAL., I	MIN.	20		> 70FT. HT.	NORTH AMERICA
)	PIN PA3	PINUS PALUSTRIS / LONGLEAF PINE	6` HT.		10		> 65FT. HT.	NORTH AMERICA
•	PIN PAL	PINUS PALUSTRIS / LONGLEAF PINE	8` HT., 3" CAL., I	MIN.	86		> 65FT. HT.	NORTH AMERICA
PALM TREES	CODE	BOTANICAL / COMMON NAME	SIZE		QTY	REMARKS	MATURE HEIGHT	PLANT ORIGIN
	SAB SAB	SABAL PALMETTO / CABBAGE PALMETTO	16` OA HT.,		10		>25FT. HT.	NORTH AMERICA
SMALL TREES	CODE	BOTANICAL / COMMON NAME	SIZE		QTY	REMARKS	MATURE HEIGHT	PLANT ORIGIN
\odot	ILE CAS	ILEX CASSINE / DAHOON HOLLY	15 GAL.		54		25 - 40FT. HT.	NORTH AMERICA
)	MYR CER	MYRICA CERIFERA / WAX MYRTLE	15 GAL.		10		>25FT.' HT.	NORTH AMERICA
SHRUBS	CODE	BOTANICAL / COMMON NAME	SIZE		QTY	REMARKS	MATURE HEIGHT	PLANT ORIGIN
	CAL AME	CALLICARPA AMERICANA / AMERICAN BEAUTYBERRY	3 GAL.		5		4 - 6FT. HT.	NORTH AMERICA
\odot	MYR CE2	MYRICA CERIFERA / WAX MYRTLE	3 GAL.		230		>25FT. HT.	NORTH AMERICA
₹ • }	SER REP	SERENOA REPENS / SAW PALMETTO	7 GAL.		103		6 - 10FT. HT.	NORTH AMERICA
+	VIB OBO	VIBURNUM OBOVATUM / WALTER'S VIBURNUM	3 GAL.		151		18 - 36IN. HT.	NORTH AMERICA
(+)	ZAM PUM	ZAMIA PUMILA / COONTIE CYCAD	3 GAL.		42		18 - 36IN. HT.	NORTH AMERICA
GROUND COVERS	CODE	BOTANICAL / COMMON NAME	SIZE	SPACING	QTY	REMARKS	MATURE HEIGHT	PLANT ORIGIN
KEKE1								
	PALM TREES SMALL TREES SHRUBS	PIN EL2 QUE NI2 SAB SA2 LARGE TREES CODE ACE SOU PIN PA3 PIN PA1 PALM TREES CODE SAB SAB SMALL TREES CODE LIE CAS MYR CER SHRUBS CODE CAL AME MYR CE2 SER REP + VIB OBO TAM PUM	PIN EL2 PINUS ELLIOTTII / SLASH PINE QUE NI2 QUERCUS NIGRA / WATER OAK SAB SA2 SABAL PALMETTO / CABBAGE PALMETTO LARGE TREES CODE BOTANICAL / COMMON NAME ACE SOU ACER BARBATUM / SOUTHERN SUGAR MAPLE PIN PA3 PINUS PALUSTRIS / LONGLEAF PINE PIN PA1 PINUS PALUSTRIS / LONGLEAF PINE PALM TREES CODE BOTANICAL / COMMON NAME SAB SAB SABAL PALMETTO / CABBAGE PALMETTO SMALL TREES CODE BOTANICAL / COMMON NAME LIE CAS ILEX CASSINE / DAHOON HOLLY MYR CER MYRICA CERIFERA / WAX MYRTLE SHRUBS CODE BOTANICAL / COMMON NAME CAL AME CALLICARPA AMERICANA / AMERICAN BEAUTYBERRY MYR CE2 MYRICA CERIFERA / WAX MYRTLE SER REP SERENOA REPENS / SAW PALMETTO + VIB OBO VIBURNUM OBOVATUM / WALTERS VIBURNUM ZAM PUM ZAMIA PUMILA / COONTIE CYCAD	PIN EL2 PINUS ELLIOTTII / SLASH PINE QUE NI2 QUERCUS NIGRA / WATER OAK SAB SA2 SABAL PALMETTO / CABBAGE PALMETTO LARGE TREES CODE BOTANICAL / COMMON NAME SIZE ACE SOU ACER BARBATUM / SOUTHERN SUGAR MAPLE 8' HT., 3" CAL., PIN PA3 PINUS PALUSTRIS / LONGLEAF PINE 6' HT. PIN PAL PINUS PALUSTRIS / LONGLEAF PINE 8' HT., 3" CAL., PALM TREES CODE BOTANICAL / COMMON NAME SIZE SAB SAB SABAL PALMETTO / CABBAGE PALMETTO 16' OA HT., SMALL TREES CODE BOTANICAL / COMMON NAME SIZE LIE CAS ILEX CASSINE / DAHOON HOLLY 15 GAL. MYR CER MYRICA CERIFERA / WAX MYRTLE 15 GAL. SHRUBS CODE BOTANICAL / COMMON NAME SIZE CAL AME CALLICARPA AMERICANA / AMERICAN BEAUTYBERRY 3 GAL. MYR CE2 MYRICA CERIFERA / WAX MYRTLE 3 GAL. MYR CE2 MYRICA CERIFERA / WAX MYRTLE 3 GAL. SER REP SERENOA REPENS / SAW PALMETTO 7 GAL. YIB OBO VIBURNUM OBOVATUM / WALTER'S VIBURNUM 3 GAL. ZAM PUM ZAMIA PUMILA / COONTIE CYCAD 3 GAL.	PIN EL2 PINUS ELLIOTTII / SLASH PINE — QUE NI2 QUERCUS NIGRA / WATER OAK — SAB SA2 SABAL PALMETTO / CABBAGE PALMETTO — LARGE TREES CODE BOTANICAL / COMMON NAME SIZE ACE SOU ACER BARBATUM / SOUTHERN SUGAR MAPLE 8' HT., 3' CAL., MIN. PIN PA3 PINUS PALUSTRIS / LONGLEAF PINE 6' HT. PIN PA1 PINUS PALUSTRIS / LONGLEAF PINE 8' HT., 3' CAL., MIN. PALM TREES CODE BOTANICAL / COMMON NAME SIZE SAB SAB SABAL PALMETTO / CABBAGE PALMETTO 16' OA HT., SMALL TREES CODE BOTANICAL / COMMON NAME SIZE ILE CAS ILEX CASSINE / DAHOON HOLLY 15 GAL. MYR CER MYRICA CERIFERA / WAX MYRTLE 15 GAL. SHRUBS CODE BOTANICAL / COMMON NAME SIZE CAL AME CALLICARPA AMERICANA / AMERICAN BEAUTYBERRY 3 GAL. MYR CE2 MYRICA CERIFERA / WAX MYRTLE 3 GAL. MYR CE2 MYRICA CERIFERA / WAX MYRTLE 3 GAL. SER REP SERENOA REPENS / SAW PALMETTO 7 GAL. TYB OBO VIBURNUM OBOVATUM / WALTER'S VIBURNUM 3 GAL. TYB OBO VIBURNUM OBOVATUM / WALTER'S VIBURNUM 3 GAL.	PIN EL2	PIN EL2 PINUS ELLIOTIII / SLASH PINE — 58 QUE NI2 QUERCUS NIGRA / WATER OAK — 13 SAB SA2 SABAL PALMETTO / CABBAGE PALMETTO — 5 LARGE TREES CODE BOTANICAL / COMMON NAME SIZE GTY REMARKS ACE SOU ACER BARBATUM / SOUTHERN SUGAR MAPLE 8' HT., 3' CAL., MIN. 20 PIN PA3 PINUS PALUSTRIS / LONGLEAF PINE 6' HT. 10 PIN PA4 PINUS PALUSTRIS / LONGLEAF PINE 8' HT., 3' CAL., MIN. 86 PALM TREES CODE BOTANICAL / COMMON NAME SIZE GTY REMARKS SMALL TREES CODE BOTANICAL / COMMON NAME SIZE GTY REMARKS MYRICA SILEX CASSINE / DAHOON HOLLY 15 GAL. 54 MYR CER MYRICA CERIFERA / WAX MYRTLE 15 GAL. 10 SHRUBS CODE BOTANICAL / COMMON NAME SIZE GTY REMARKS • CAL AME CALLICARPA AMERICANA / AMERICAN BEAUTYBERRY 3 GAL. 5 • MYRICA CERIFERA / WAX MYRTLE	PIN EL2 PINUS ELLIOTII / SLASH PINE

MUH CAP MUHLENBERGIA CAPILLARIS / PINK MUHLY GRASS 1 GAL. 30" o.c. 850

- PRESERVED OR REESTABLISHED WHEN POSSIBLE.
- ALL REQUIRED LANDSCAPE AND IRRIGATION SHALL BE INSTALLED ON THE SUBJECT PROPERTY. WHENEVER A SYSTEM UTILIZING RECLAIMED WATER IS IN PLACE AND AVAILABLE USERS MUST ACCESS AND UTILIZE THAT SYSTEM. MOISTURE-SENSOR AND/OR RAIN SHUT-OFF SWITCH EQUIPMENT SHALL BE REQUIRED ON AUTOMATIC IRRIGATION SYSTEMS TO AVOID IRRIGATION DURING PERIODS OF SUFFICIENT RAINFALL. SAID EQUIPMENT SHALL CONSIST OF AN AUTOMATIC MECHANICAL OR ELECTRONIC SENSING DEVICE OR SWITCH THAT WILL OVERRIDE THE IRRIGATION CYCLE OF THE SPRINKLER SYSTEM WHEN ADEQUATE RAINFALL HAS OCCURRED. THE USE OF LOW VOLUME EMITTERS OR TARGET IRRIGATION IS REQUIRED FOR TREES, SHRUBS, AND GROUND COVERS TO MINIMIZE IRRIGATION OVERTHROW ONTO IMPERVIOUS
- THE OWNER, WHERE APPROPRIATE, THE TENANT AND THEIR AGENT, IF ANY, SHALL BE JOINTLY AND SEVERALLY RESPONSIBLE FOR THE MAINTENANCE OF ALL LANDSCAPING WHICH SHALL BE MAINTAINED IN GOOD CONDITION SO AS TO PRESENT A HEALTHY, NEAT AND ORDERLY APPEARANCE AT ALL TIMES AND SHALL BE KEPT FREE FROM REFUSE AND DEBRIS. MAINTENANCE SHALL INCLUDE THE REPLACEMENT OF ALL DEAD PLANT MATERIAL.





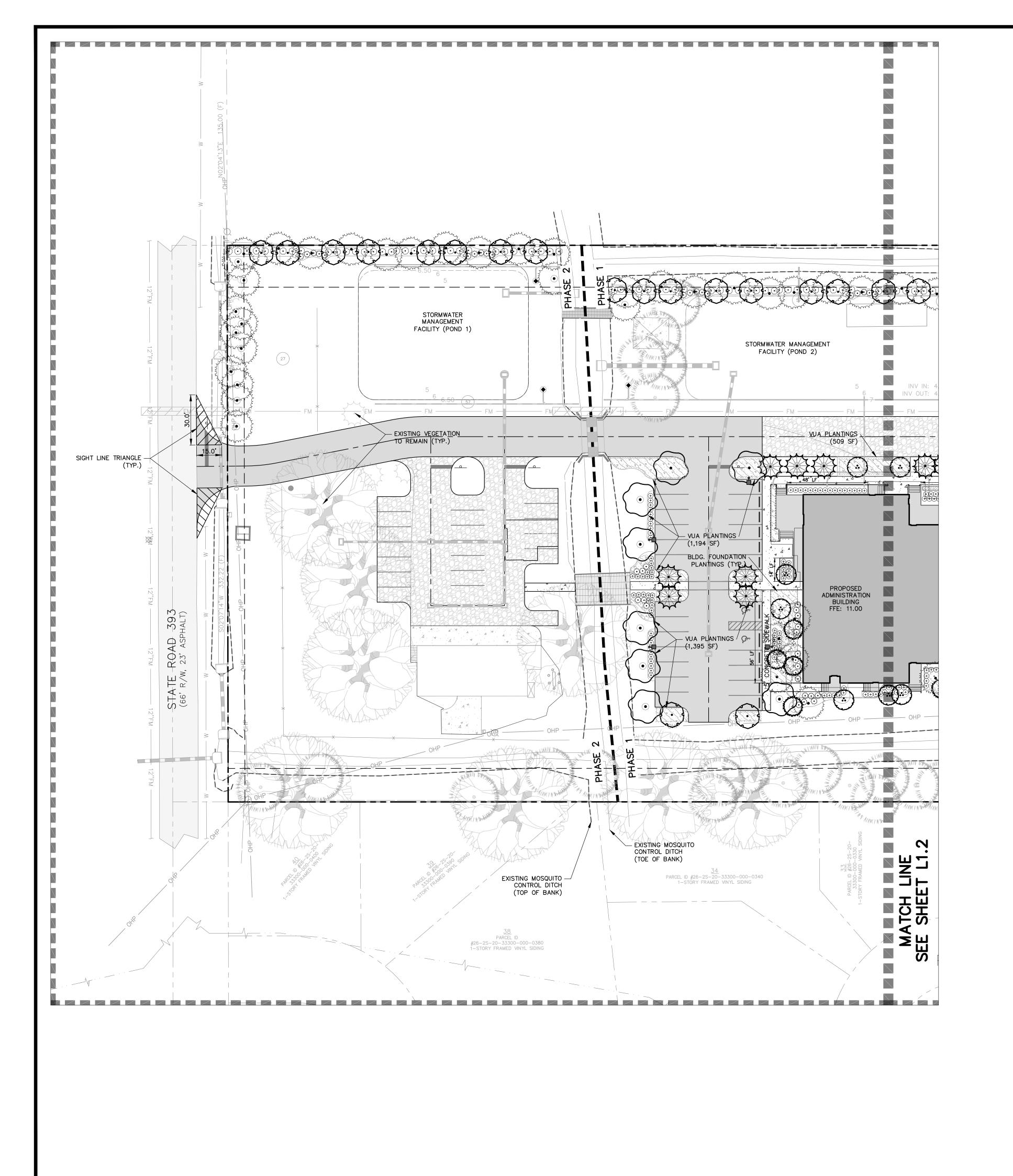
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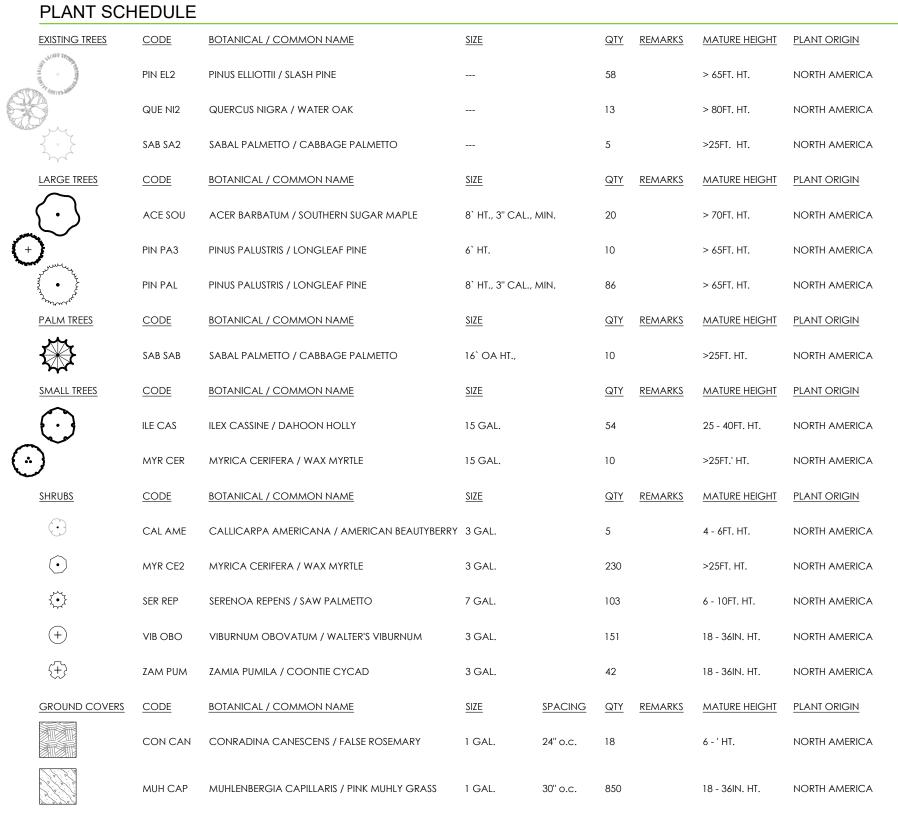
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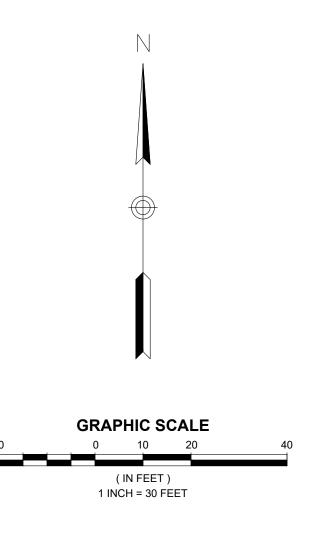
LANDSCAPE

KEY MAP







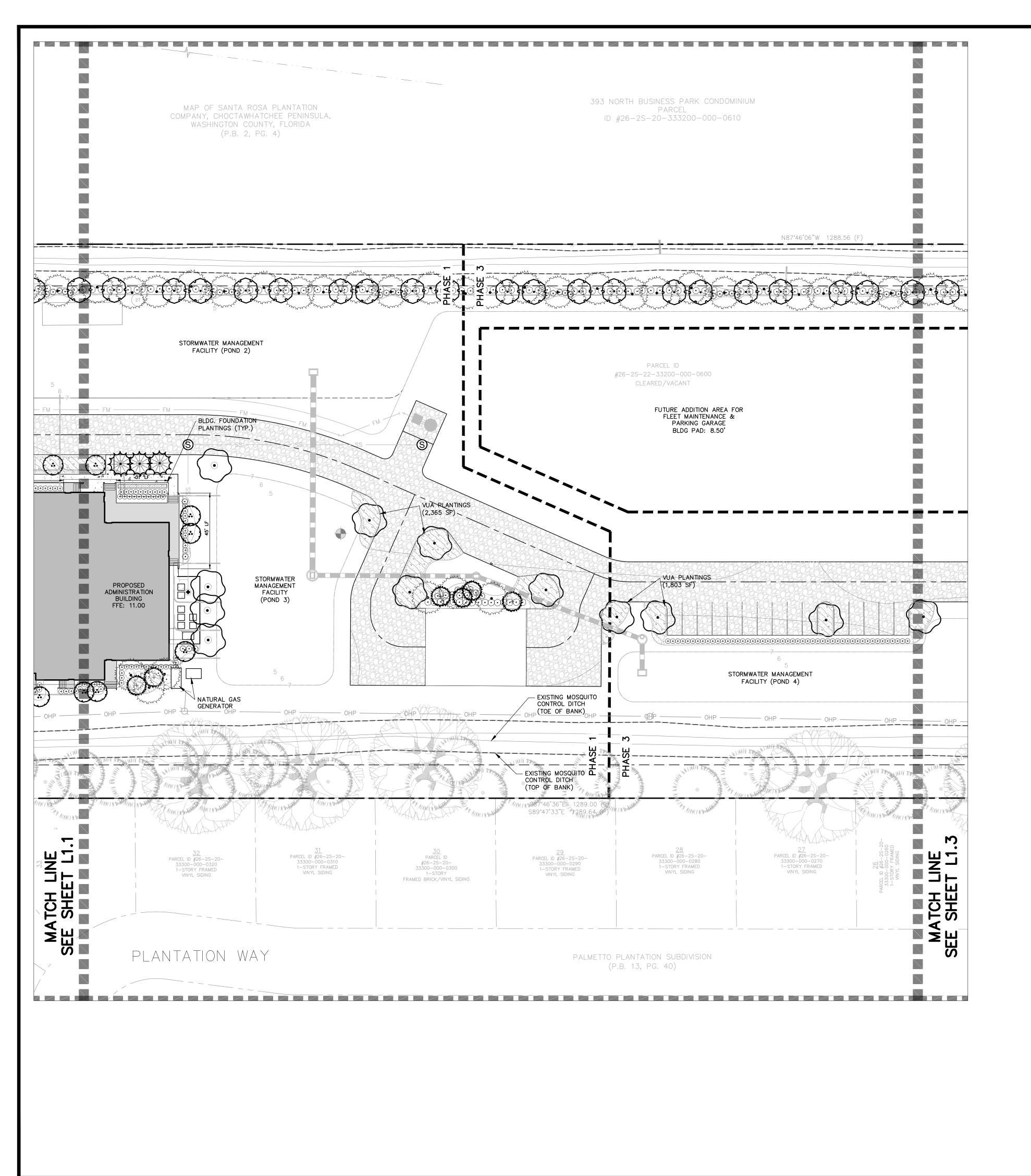


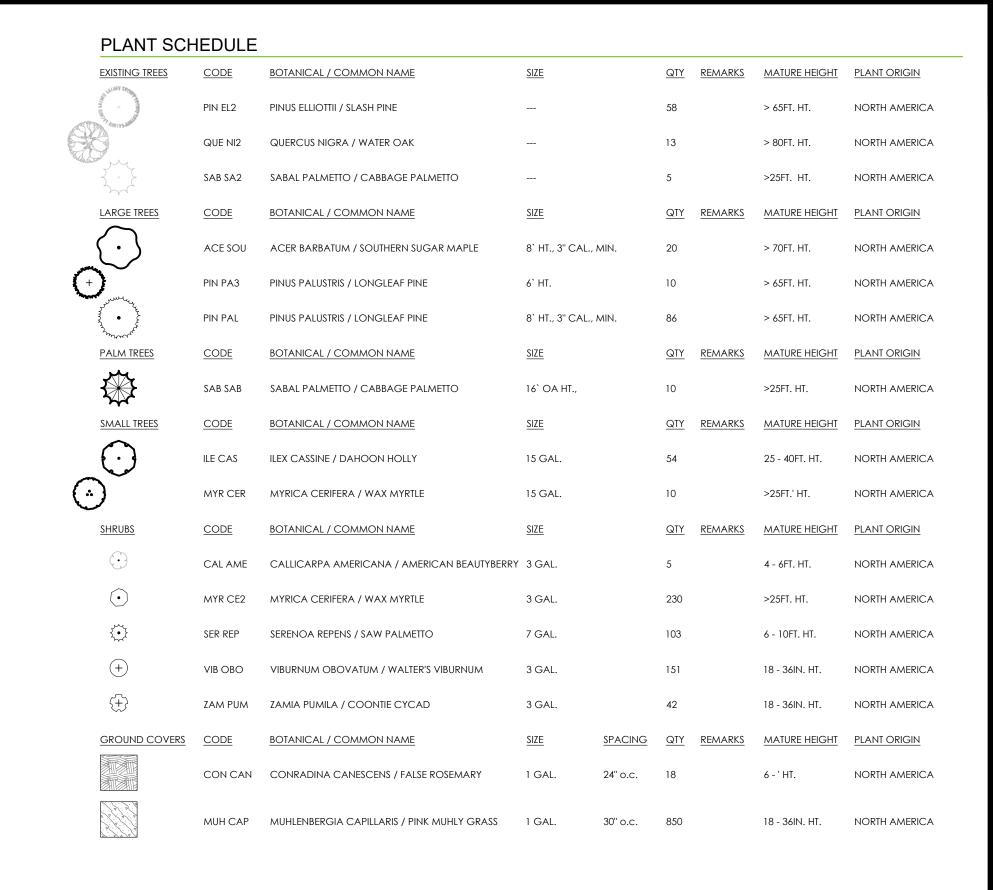


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ON: JUNE 3620023

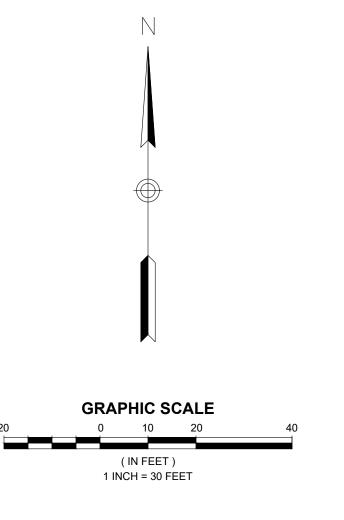
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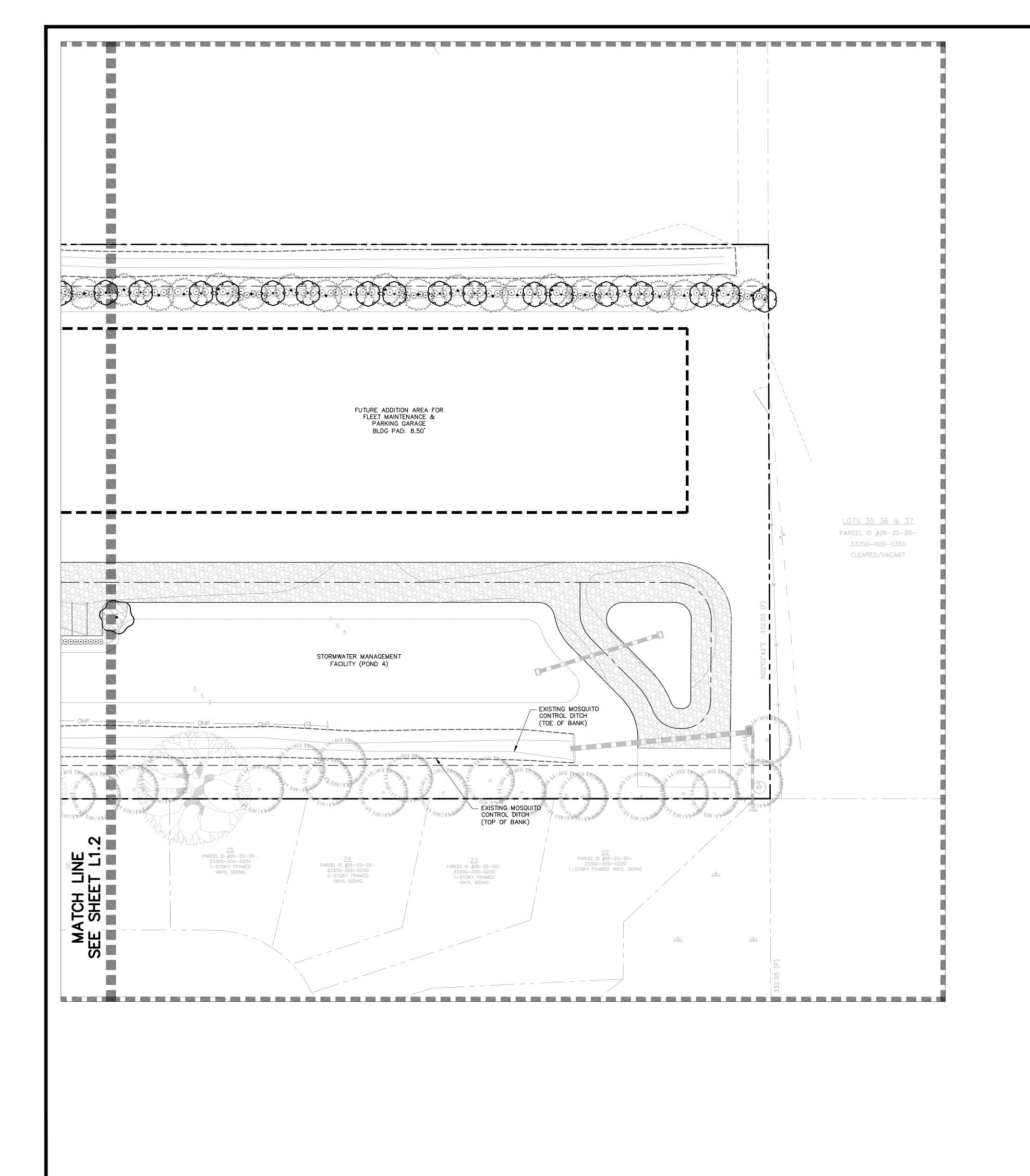


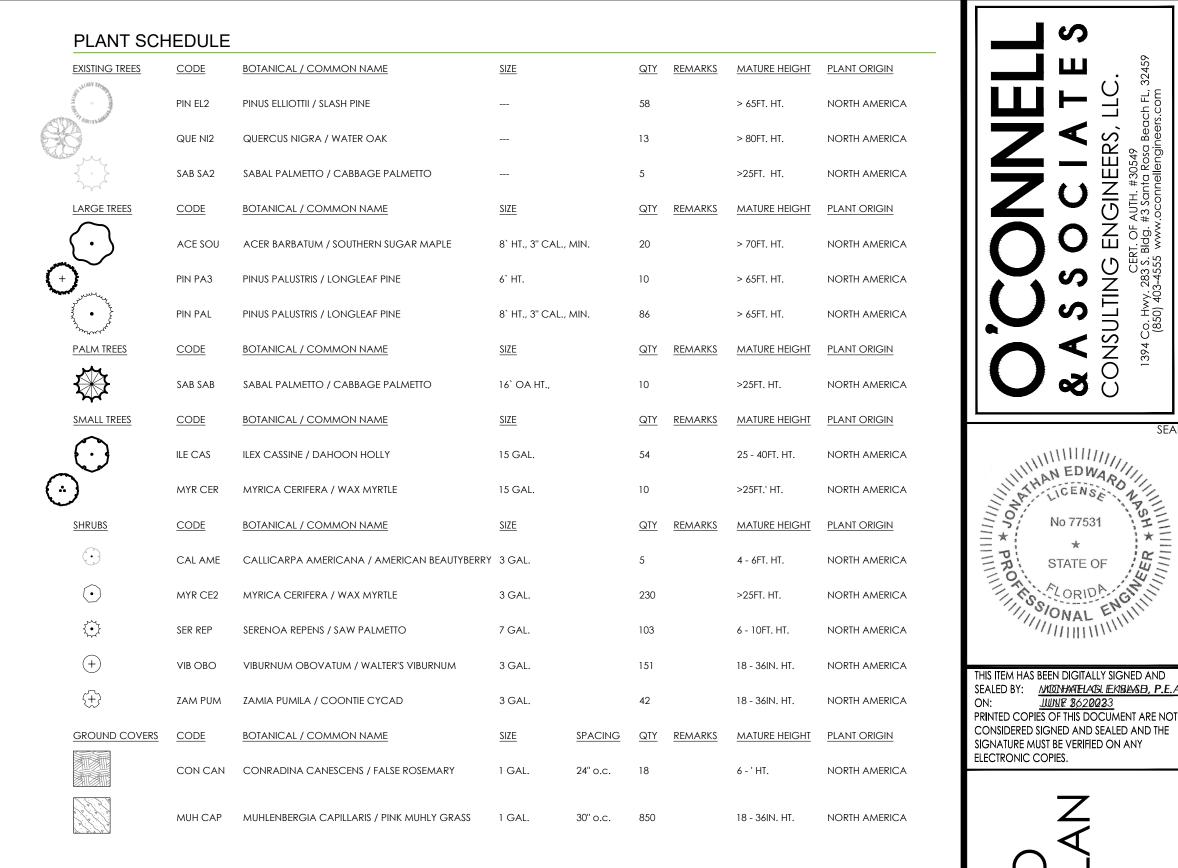
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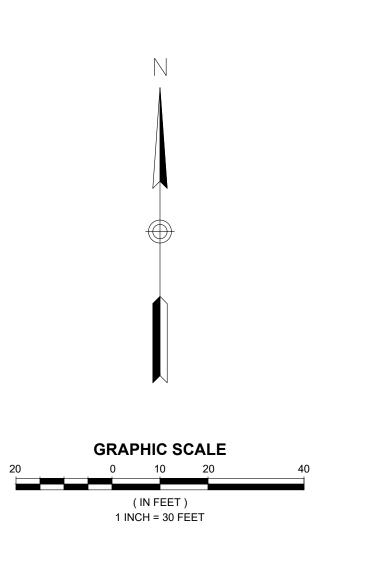
SOUTH WALTON MOSQUIT
ONTROL DISTRICT MASTER P
774 NORTH COUNTY HIGHWAY 393
SANTA ROSA BEACH
WALTON COUNTY, FLORIDA

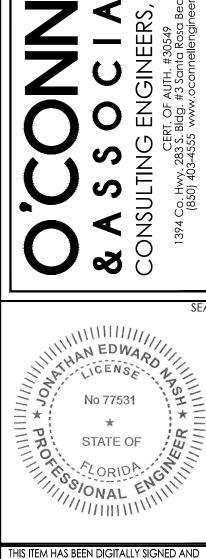
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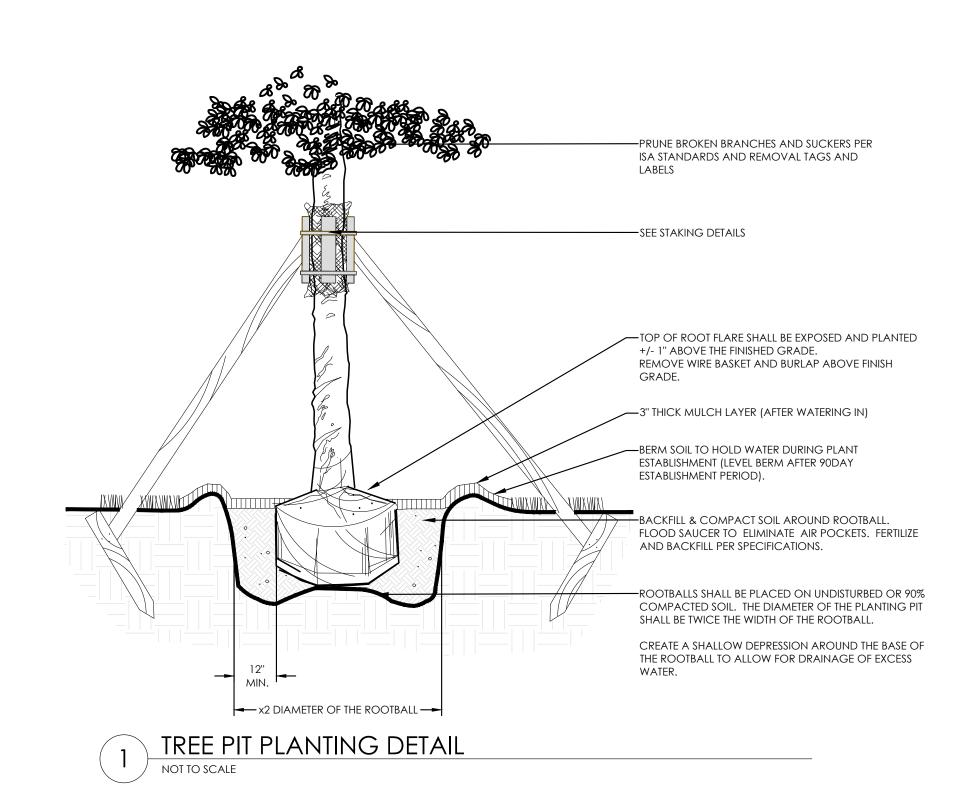
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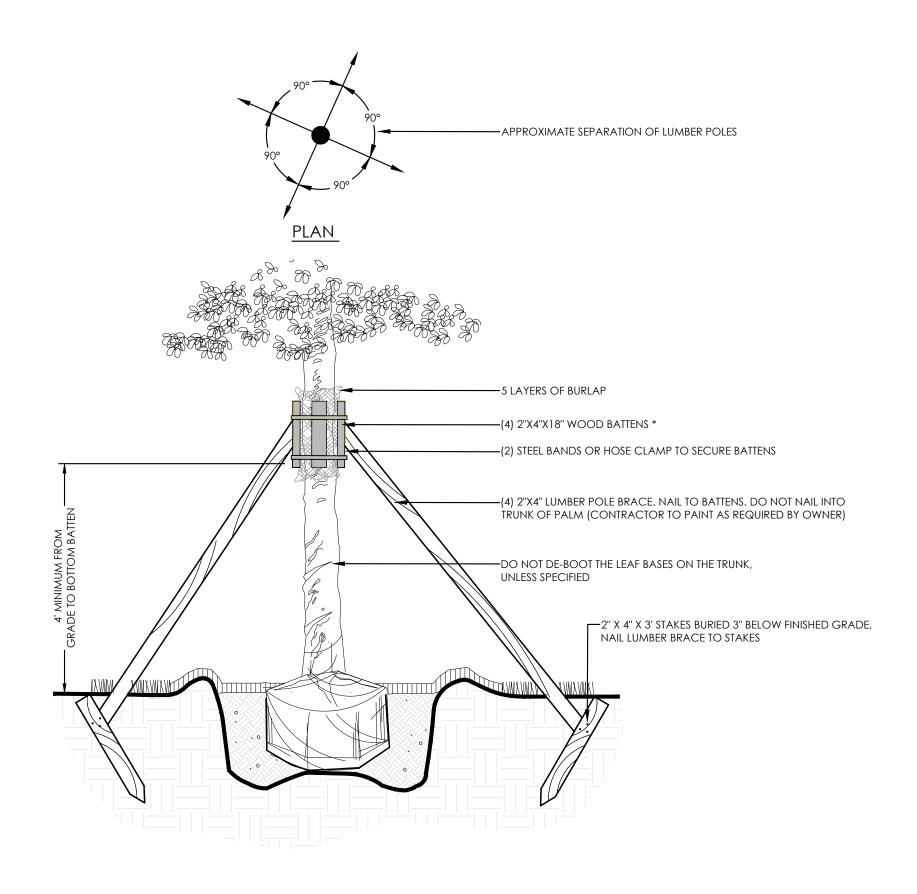
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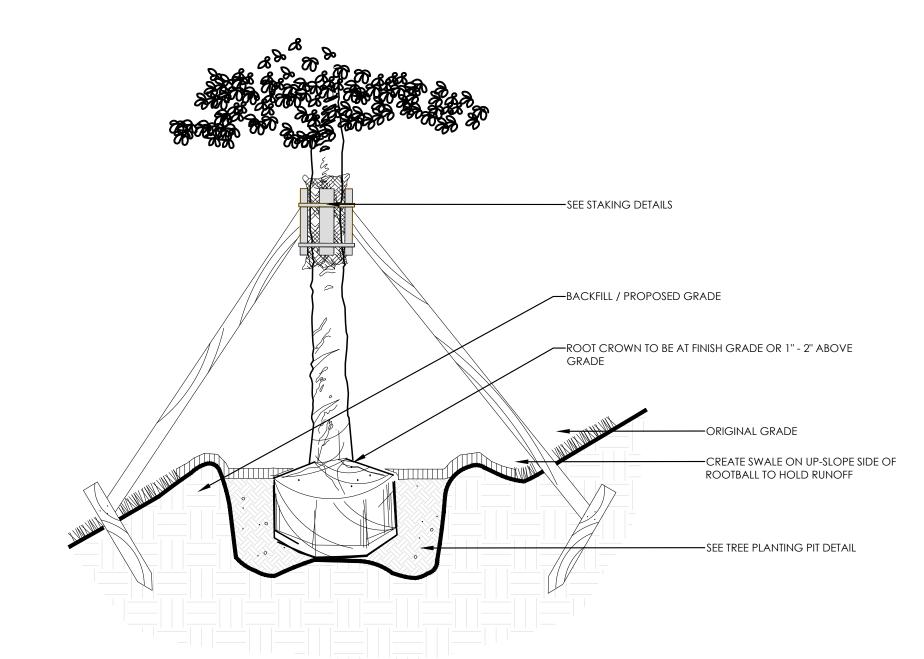
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PLAN

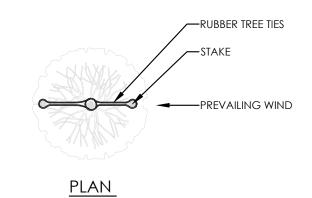
LP1.3







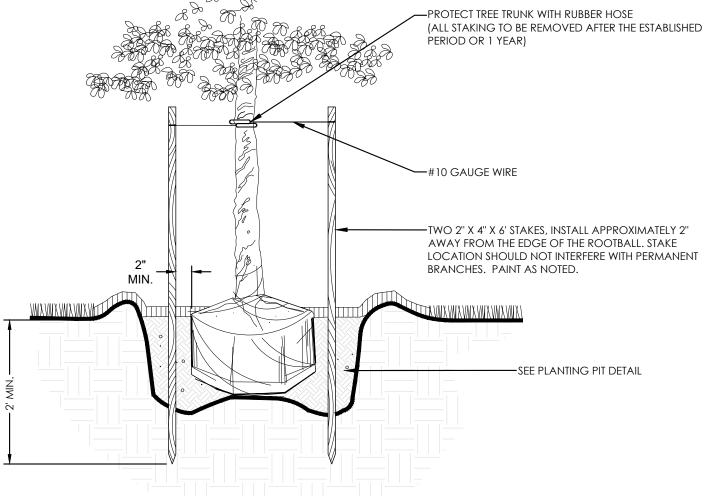
3 TREE PLANTING DETAIL ON A SLOPE



PROTECT TREE TRUNK WITH RUBBER HOSE

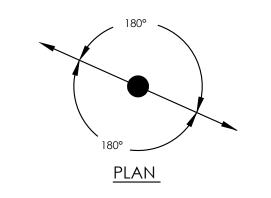
(ALL STAKING TO BE REMOVED AFTER THE ESTAE

PERIOD OR 1 YEAR)



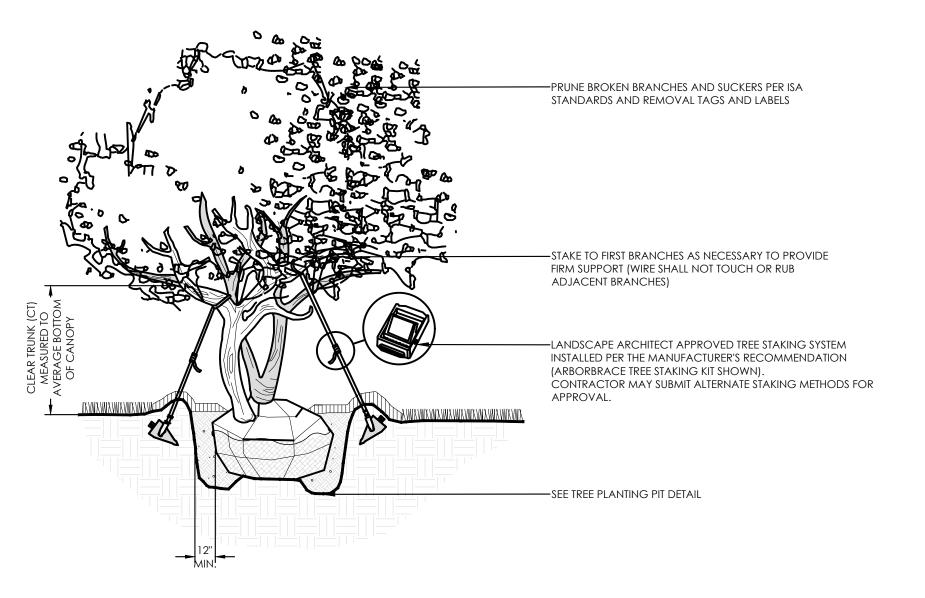
4 SMALL TREE STAKING DETAIL

NOT TO SCALE

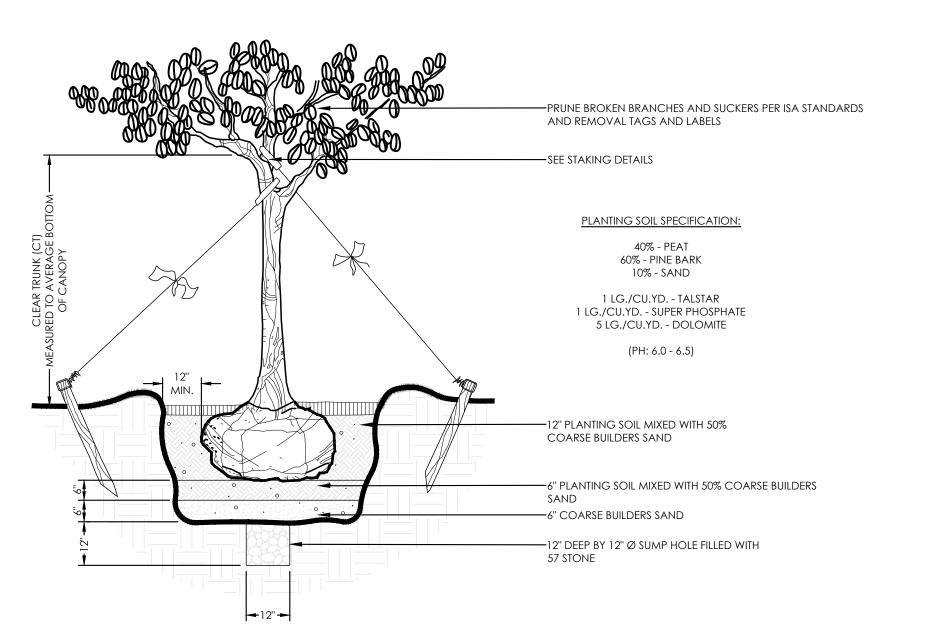


LARGE TREE STAKING DETAIL

NOT TO SCALE



5 MULTI-TRUNK TREE INSTALLATION DETAIL
NOT TO SCALE



6 MAGNOLIA INSTALLATION DETAIL
NOT TO SCALE

A S S C C A T E S CONSULTING ENGINEERS, LLC.

CERT. OF AUTH. #30549

1394 CO HWW 283 S, RIGG #3 S, Confort F1 32459

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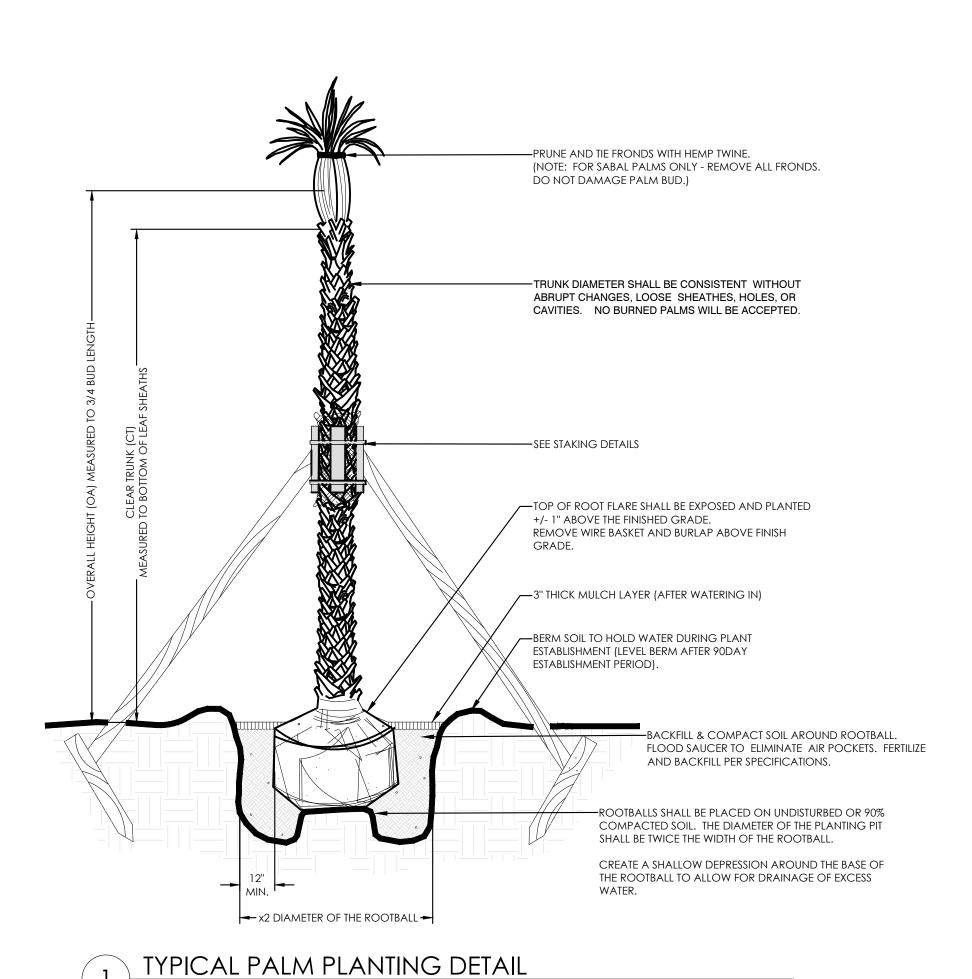
SOUTH WALTON PLANS FOR SOUTH WALTON MOSQUI CONTROL DISTRICT MASTER 774 NORTH COUNTY HIGHWAY 393 SANTA ROSA BEACH WALTON COUNTY, FLORIDA WALTON COUNTY, FLORIDA

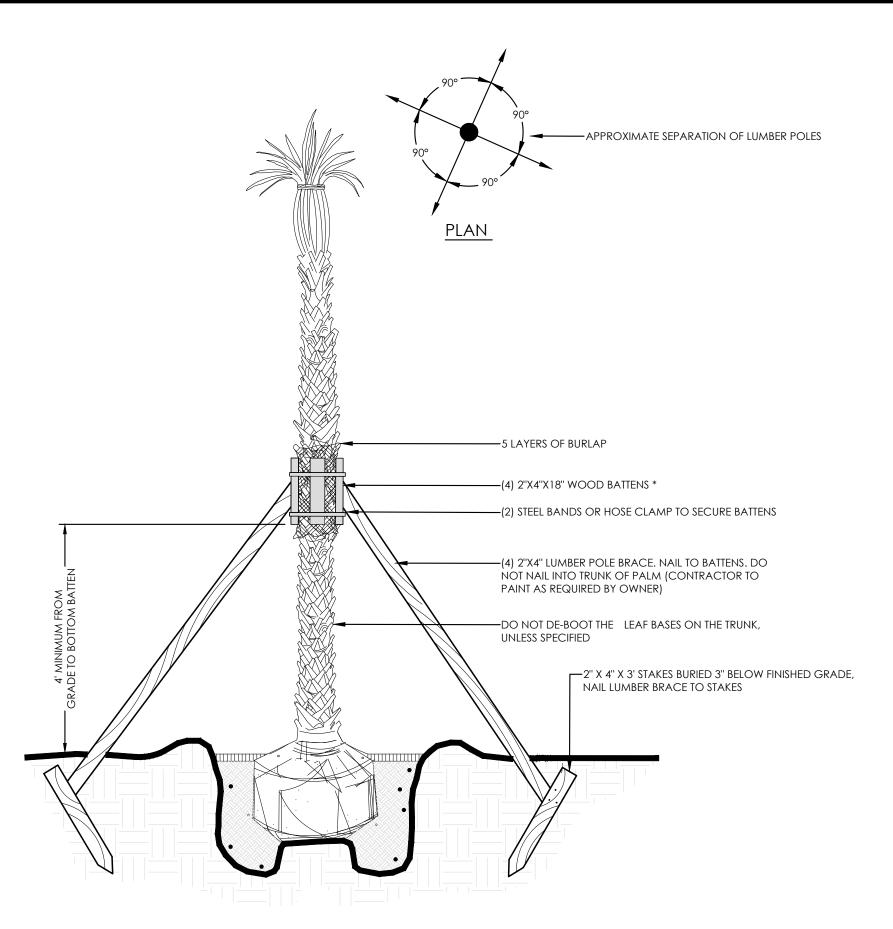
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SOUTH DATE: 1820E: DEVENITION:

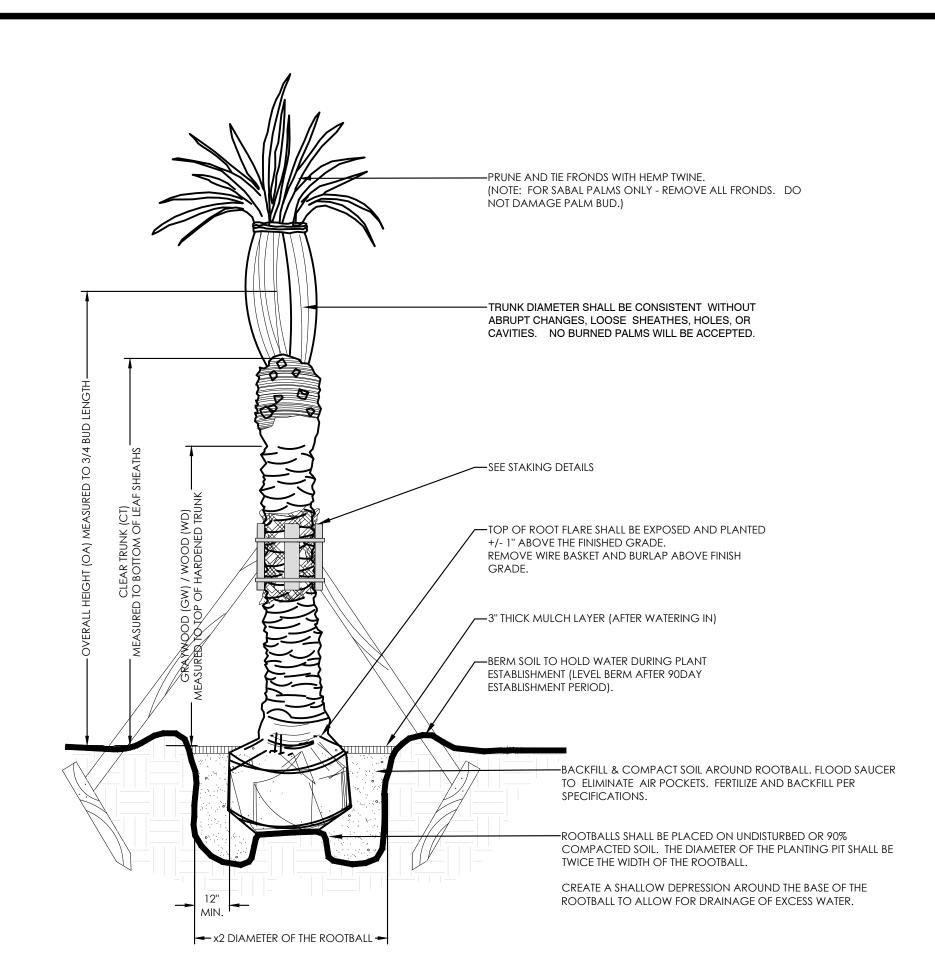
SOUTH DATE: 1820E: DEVENITION CHECKED BY:

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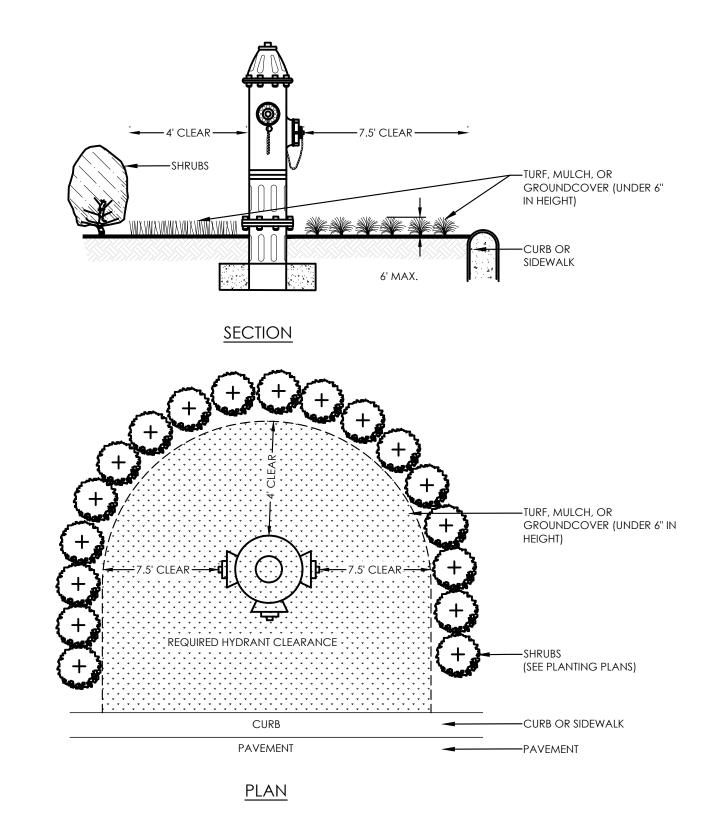




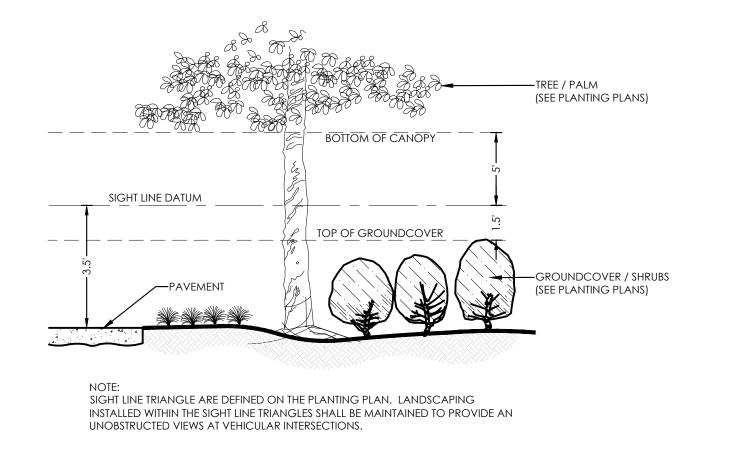




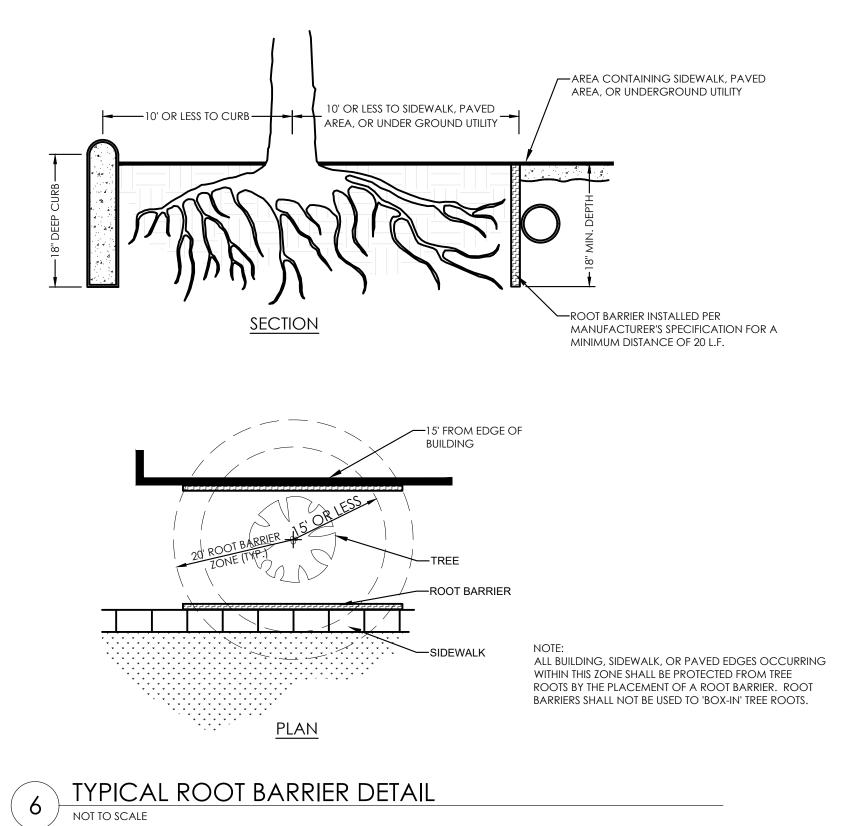
3 DATE PALM TREE INSTALLATION DETAIL

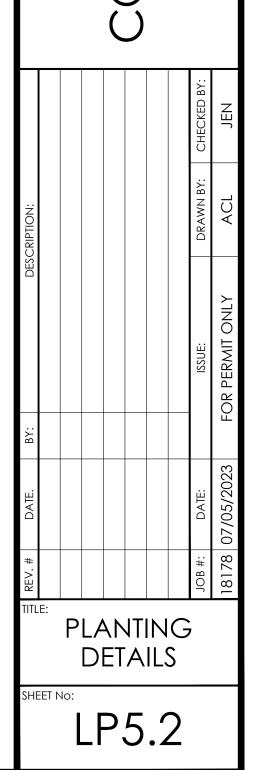


FIRE HYDRANT CLEARANCE DETAIL
NOT TO SCALE









No 77531

STATE OF

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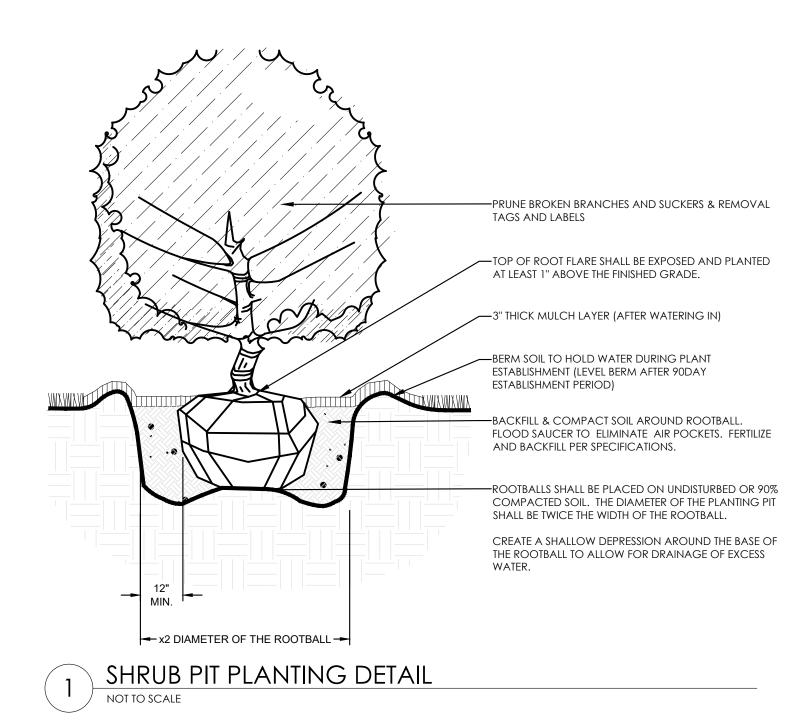
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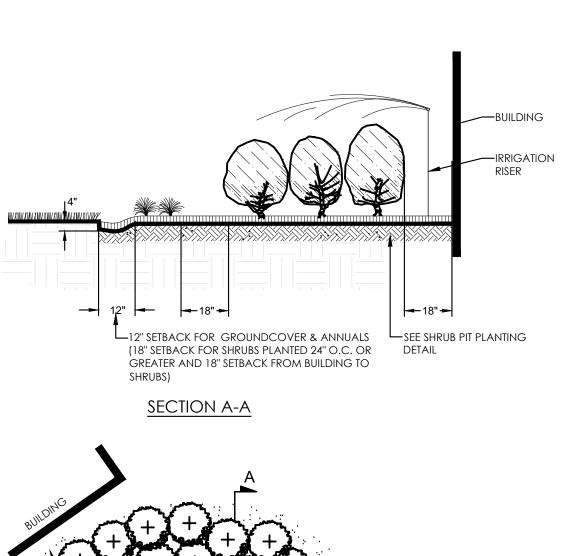
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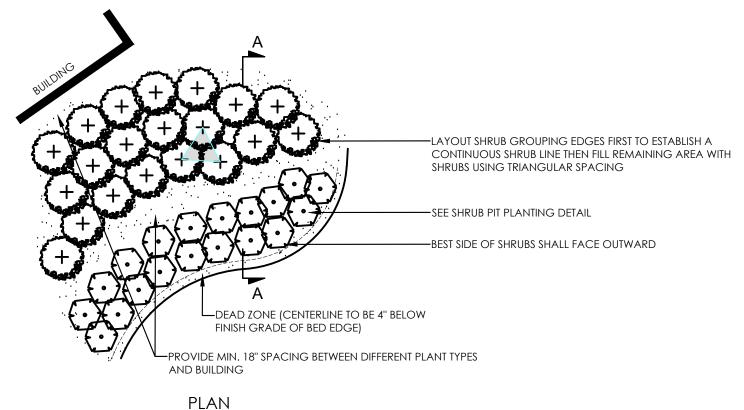
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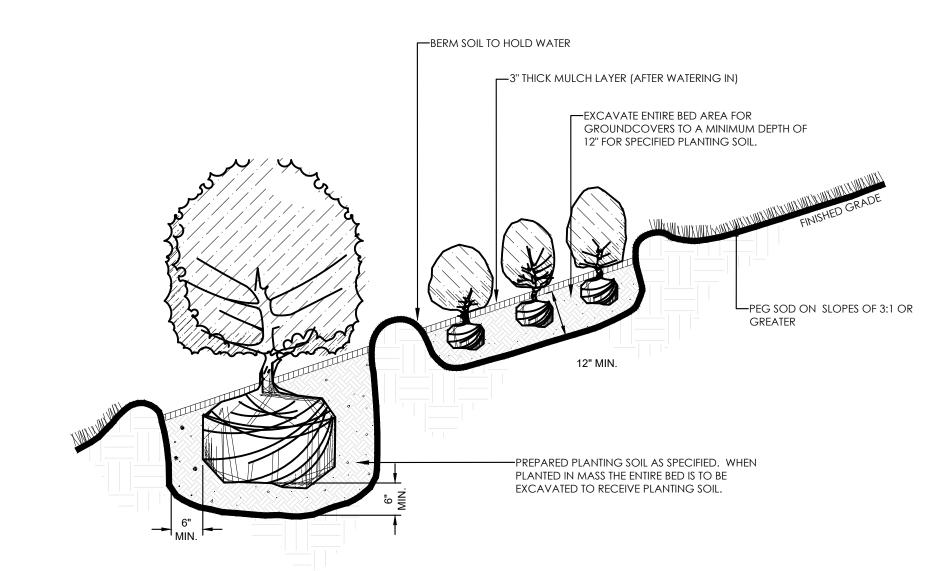




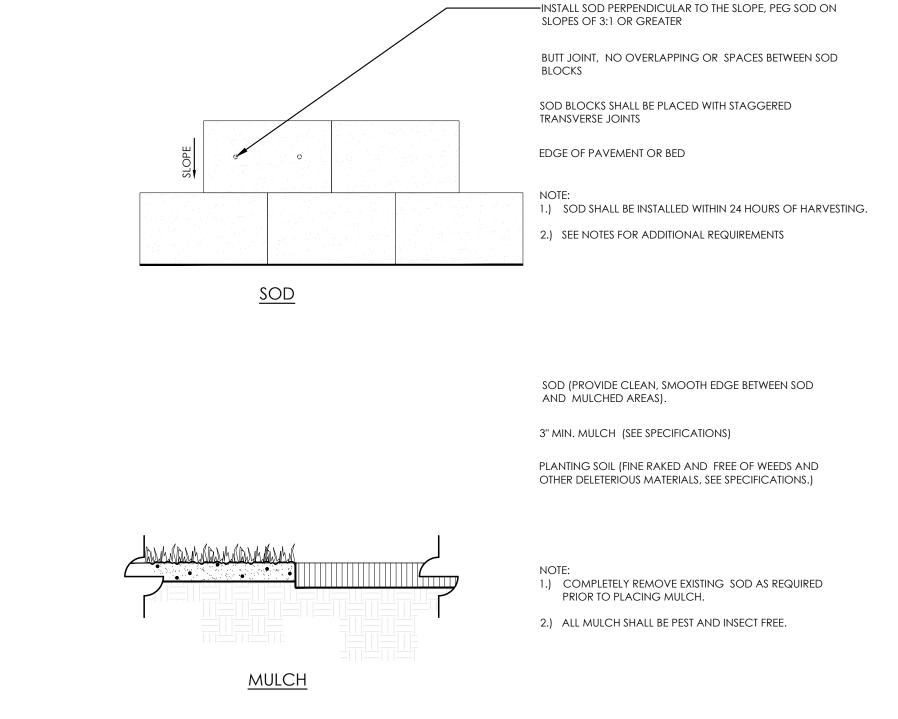


2 SHRUB BED PLANTING DETAIL

NOT TO SCALE

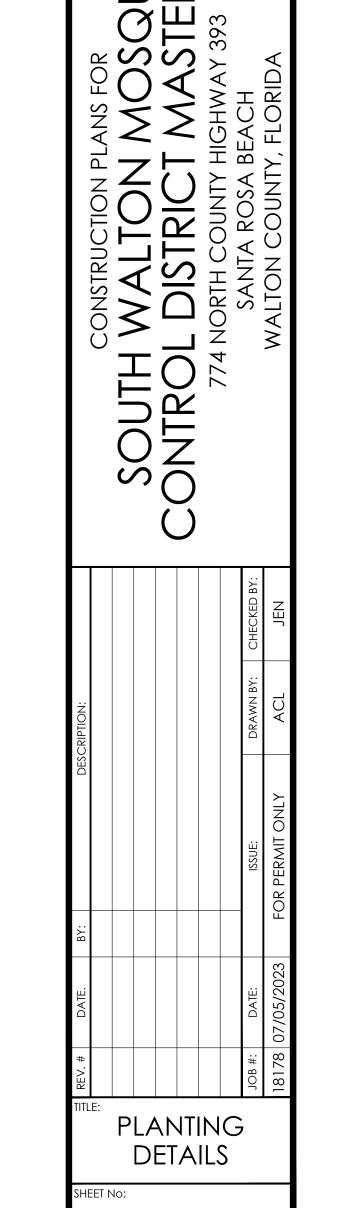






SOD & MULCH INSTALLATION DETAILS

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1 NORTH FACADE LANDSCAPE ELEVATION
NOT TO SCALE



2 SOUTH FACADE LANDSCAPE ELEVATION
NOT TO SCALE



3 EAST FACADE LANDSCAPE ELEVATION
NOT TO SCALE



WEST FACADE LANDSCAPE ELEVATION
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O CONSULTING ENGINEERS, LLC.

No 77531

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ON:

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363

NTROL DISTRICT MASTER
NATA NORTH COUNTY HIGHWAY 393
SANTA ROSA BEACH
WALTON COUNTY, FLORIDA

JOB #: DATE: ISSUE: DRAWN BY: CHECKED BY: JEN ACL JEN

LANDSCAPE ELEVATIONS

LP5.4

GENERAL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW AND IMPLEMENT ALL OF THE SPECIFICATIONS
- WITHIN THESE PLANS AND THE WRITTEN SPECIFICATIONS IN THE PROJECT MANUAL.

 2. THESE PLANS AND PROJECT MANUAL ARE INCLUDED AS PART OF THE CONTRACT DOCUMENTS AND
- ARE CONTRACTUALLY BINDING.

 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL UTILITIES BOTH UNDERGROUND AND OVERHEAD PRIOR TO THE COMMENCEMENT OF ANY WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND SERVICES THROUGHOUT THE COURSE OF WORK.
- CONTRACTOR SHALL NOTIFY O'CONNELL & ASSOCIATES OF ANY CONFLICTS OF THE PLANS AND THE SITE CONDITIONS. FAILURE TO DO SO SHALL MAKE THE CONTRACTOR LIABLE FOR ANY NECESSARY MODIFICATIONS AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS RESPONSIBLE TO VISIT THE SITE, POTHOLE AREAS OF CONCERN, AND PERFORM THE NECESSARY DUE DILIGENCE PRIOR TO BIDDING. FAILURE TO DO SO SHALL MAKE THE CONTRACTOR LIABLE FOR ANY NECESSARY MODIFICATIONS AT THE CONTRACTOR'S EXPENSE IF DEEMED POTENTIALLY FORESEEN. ANY / ALL
- QUANTITIES SHOWN IN THESE DRAWINGS ARE PROVIDED FOR CONVENIENCE PURPOSES ONLY.

 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL THE QUANTITIES PRIOR TO BIDDING. FAILURE
- TO VERIFY QUANTITIES SHALL MAKE THE CONTRACTOR LIABLE FOR ANY OMISSIONS.

 8. CONTRACTOR SHALL GET APPROVALOF FINE GRADING FROM O'CONNELL & ASSOCIATES PRIOR TO THE INSTALLATION OF SOD OR ANY PLANT MATERIALS.
- THE CONTRACTOR SHALL CONFER WITH O'CONNELL & ASSOCIATES PRIOR TO COMMENCING THIS WORK TO CONFIRM ACTUAL SHAPES AND ELEVATIONS OF THE LANDSCAPE BERMING. THE CONTRACTOR SHALL BE RESPONSIBLE TO FINE GRADE ALL THE LANDSCAPE AREAS REMOVING ALL MOUNDS, DEPRESSIONS, ROCKS, STICKS, OR OTHER DEBRIS PRIOR TO THE INSTALLATION OF SOD AND

PLANT MATERIAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING POSITIVE SHEET FLOW

- DRAINAGE AWAY FROM ALL STRUCTURES AND ROOTZONES.

 10. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL TRADES SO AS TO AVOID ANY CONFLICT WITH THE EXECUTION OF WORK BY OTHERS. OWNER SHALL NOT BE RESPONSIBLE FOR THE DAMAGE TO PLANT MATERIALS CAUSED BY OTHER TRADES OR SUBCONTRACTORS. THE CONDITION AND FINAL LOCATION OF PLANT MATERIAL SHALL BE EVALUATED AND CONFIRMED BY O'CONNELL & ASSOCIATES.
- THE CONTRACTOR SHALL NOTIFY NECESSARY UTILITY COMPANIES 48 MINIMUM PRIOR TO DIGGING FOR VERIFICATION OF ALL UNDERGROUND UTILITIES, IRRIGATION, AND ALL OTHER OBSTRUCTIONS AND COORDINATE WITH OWNER'S REPRESENTATIVE PRIOR TO INITIATING OPERATIONS. SHOULD THE LANDSCAPE CONTRACTOR CAUSE DAMAGE TO ANY UTILITIES, NECESSARY REPAIRS SHALL BE MADE AS QUICKLY AS PRACTICABLE, AT THE CONTRACTOR'S EXPENSE. FL STATUTE 553.851 (1979) REQUIRES MIN. 2 DAYS NOTICE AND MAX. OF 5 DAYS NOTICE BEFORE YOU EXCAVATE.
- 12. THE CONTRACTOR (AND ANY SUBCONTRACTORS) SHALL PROVIDE SUBSTANTIAL PROOF TO O'CONNELL & ASSOCIATES OF HAVING FIVE (5) MINIMUM YEARS EXPERIENCE IN THE FIELD OF LANDSCAPE AND IRRIGATION CONTRACTING AND HARDSCAPE CONSTRUCTION (IF APPLICABLE) WITH PROJECTS OF SIMILAR SCOPE
- 13. THE CONTRACTOR SHALL SUPPLY A QUALIFIED, ENGLISH-SPEAKING SUPERVISOR AT ALL TIMES ON SITE WHEN ANY WORK IS BEING PERFORMED OR THE WORK MAY BE DEEMED NONCONFORMING AND UNACCEPTED O'CONNELL & ASSOCIATES.
- ALL SUPERVISORS SHALL HAVE A MINIMUM OF 18 MONTHS OF VERIFIABLE FIELD EXPERIENCE.

 4. NATIONAL CERTIFICATIONS FROM A GOVERNING AGENCY MAY BE SUBSTITUTED IN LIEU OF THE SUPERVISORS' EXPERIENCE REQUIREMENT AT THE DISCRETION OF O'CONNELL & ASSOCIATES.

PLANT MATERIAL INSTALLATION SPECIFICATIONS:

- 1. ALL PLANT MATERIALS SHALL BE TRUE TO SPECIES AND CONFORM TO THE MINIMUM SIZES AS INDICATED IN THESE PLANS. NO SUBSTITUTIONS SHALL BE ALLOWED UNLESS OTHERWISE APPROVED IN WRITING BY O'CONNELL & ASSOCIATES. ALL PLANT MATERIAL SIZES SPECIFIED IN THESE DRAWINGS ARE MINIMUMS.
- 2. ALL PLANT MATERIALS SHALL BE FLORIDA GRADE NUMBER 1 OR BETTER IN ACCORDANCE WITH THE GRADES AND STANDARDS FOR NURSERY PLANTS AS DETERMINED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF PLANT INDUSTRY AND COMPLY WITH THE AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1) UNLESS OTHERWISE APPROVED IN WRITING BY O'CONNELL & ASSOCIATES.
- 3. ALL PLANT MATERIALS SHALL BE DISEASE FREE, INSECT FREE, HEALTHY, WELL-BRANCHED, AND GROWING VIGOROUSLY. ALL PLANT MATERIALS SHALL BE SUBJECT TO O'CONNELL & ASSOCIATES FINAL APPROVAL. ANY REJECTED PLANT MATERIAL SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE
- A "SPECIMEN" DESIGNATION FOR ANY PLANT MATERIAL REQUIRES IT TO BE GROWN AND PROPERLY PRUNED TO POSSESS SUPERIOR FORM, BRANCHING, COMPACTNESS, SYMMETRY, AND SHALL CONFORM TO FLORIDA FANCY IN ACCORDANCE WITH THE GRADES AND STANDARDS FOR NURSERY PLANTS AS DETERMINED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF PLANT INDUSTRY. TREES PLANTED IN ROWS SHALL BE UNIFORMLY MATCHED IN SIZE AND SHAPE UNLESS OTHERWISE SPECIFIED IN THE PLANS.
- 5. O'CONNELL & ASSOCIATES RESERVES THE RIGHT REQUIRE THE CONTRACTOR TO RELOCATE AND / OR REPOSITION ANY PLANT MATERIAL AS REQUIRED DUE TO THE SITE CONDITIONS DURING CONSTRUCTION.
- 6. SINGLE TRUNK TREES SHALL HAVE A STRAIGHT, CENTRAL LEADER WITH UNIFORM BRANCHING UNLESS OTHERWISE SPECIFIED IN THESE PLANS. MULTI-TRUNK TREES ARE TO HAVE 3-5 EQUAL SIZED TRUNKS WITH UNIFORM BRANCHING UNLESS OTHERWISE SPECIFIED IN THESE PLANS.
- 7. PLANT MATERIALS WITH MARRED, SEVERELY SCARRED, OR BURNED TRUNKS SHALL BE REJECTED. ANY SIGNS OF MISHANDLING OF PLANT MATERIALS SHALL CAUSE THE REJECTION OF THE SAID PLANT MATERIAL UNLESS OTHERWISE APPROVED IN WRITING BY O'CONNELL & ASSOCIATES. PLANT MATERIALS ARE TO BE HANDLED IN A MANNER TO ENSURE FULL PROTECTION TO THE TRUNKS, LIMBS, LEAVES, AND ROOTS
- 8. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY IN ACCORDANCE WITH INTERNATIONAL SOCIETY OF ARBORIST (ISA) GUIDELINES TO INSURE PROPER HEALTH AND VIGOROUS GROWTH. ANY OTHER SUBSEQUENT PRUNING REQUIRED AFTER PLANT MATERIAL ARRIVAL TO THE PROJECT SITE SHALL BE APPROVED PRIOR BY O'CONNELL & ASSOCIATES.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE TO MEET OR EXCEED THE SPECIFIED SIZES OF HEIGHT, SPREAD, AND CALIPER. CONTRACTOR IS RESPONSIBLE TO TAKE THIS IN CONSIDERATION IN THE BIDDING PROCESS AND NOTIFY. O'CONNELL & ASSOCIATES OF MATERIAL AVAILABILITY ISSUES. FAILURE TO DO SO, SHALL CONTRACTUALLY BIND THE CONTRACTOR TO PROVIDE THE REQUIRED SPECIES AND SIZE. ANY INCIDENTAL MATERIAL COST INCREASES TO PROVIDE THE REQUIRED SPECIES AND SIZE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR IF NOT STATED IN WRITING PRIOR TO BIDDING.
- 10. WHEN A HEIGHT, SPREAD, AND / OR CALIPER IS IN CONFLICT WITH A SPECIFIED CONTAINER SIZE, THE CONTRACTOR SHALL BE REQUIRED TO MEET THE FORMER OF THE SPECIFICATIONS AND INSTALL AN APPROPRIATELY SIZED CONTAINER PLANT MATERIAL TO COMPLY WITH THE HEIGHT, SPREAD, OR CALIPER AS SPECIFIED IN THESE DRAWINGS. ANY REFERENCE TO CONTAINER SIZES IN THESE DRAWINGS ARE MINIMUMS REQUIRED FOR PROPER ROOT DEVELOPMENT. A SMALLER CONTAINER SIZE SHALL NOT BE INSTALLED WITHOUT WRITTEN APPROVAL FROM O'CONNELL & ASSOCIATES.
- ALL BALLED AND BURLAPPED PLANT MATERIALS SHALL BE FRESHLY DUG, SOUND / SECURE IN THE ROOTBALL, AND POSSESS AN ADEQUATE ROOT SYSTEM TO ENSURE VIGOR. PREVIOUS ROOT PRUNING IS HIGHLY SUGGESTED. ALL BIO-DEGRADEABLE BURLAP SHALL BE CAREFULLY REMOVED FROM THE TOP ONE-THIRD (1/3) OF THE ROOTBALL AND TUCKED IN THE PLANTING PIT AS NOT TO BE EXPOSED TO AIR. REMOVAL OF THE BIO-DEGRADEABLE BURLAP SHALL BE PERFORMED IN SUCH A MANNER AS NOT TO DAMAGE ANY FEEDER ROOTS. ALL NON-BIODEGRADABLE BURLAP, ROPE, AND GROW BAGS SHALL BE COMPLETELY REMOVED FROM THE PLANTING PIT. ALL BALLED & BURLAPPED STOCK THAT IS NOT IMMEDIATELY PLANTED (THE DAY OF DELIVERY), SHALL BE HEALED IN AND THOROUGHLY WATERED UNTIL PLANTING. FAILURE TO DO SO, MADE NECESSITATE THE REJECTION OF ANY UNPROTECTED PLANT MATERIALS.
- 12. LIFTING, MOVING, OR ADJUSTING THE PLANT MATERIAL BY THE TRUNK SHALL BE PROHIBITED UNLESS OTHERWISE APPROVED IN WRITING BY O'CONNELL & ASSOCIATES.
- 13. ALL CONTAINER GROWN PLANT MATERIAL SHALL BE WELL-ROOTED, NOT ROOT BOUND, AND GROWN IN THE SAME CONTAINER WHICH IT IS DELIVERED TO THE PROJECT SITE. LIFTING AND MOVING OF THE PLANT MATERIALS SHALL BE BY THE CONTAINER ONLY. ALL CONTAINER GROWN PLANT MATERIAL THAT IS NOT IMMEDIATELY PLANTED, SHALL BE WATERED THOROUGHLY AND STORED IN A MANNER AS TO SHADE THE CONTAINERS FROM DIRECT SUNLIGHT TO MINIMIZE ROOT DAMAGE. ALL CONTAINER GROWN PLANT MATERIAL SHALL BE THOROUGHLY WATERED IN THEIR RESPECTIVE CONTAINERS IMMEDIATELY PRIOR TO INSTALLATION.
- 14. TREE HEIGHTS SHALL BE MEASURED FROM GROUND TO THE AVERAGE BRANCH HEIGHT OF THE CANOPY. MEASUREMENT SHALL NOT INCLUDE ANY TERMINAL GROWTH. SPREAD SHALL BE MEASURED TO THE END OF BRANCHING EQUALLY AROUND THE CROWN FROM THE CENTER OF THE TRUNK AND SHALL NOT INCLUDE ANY TERMINAL GROWTH. SHRUB HEIGHTS SHALL BE MEASURED FROM THE GROUND TO THE AVERAGE POINT WHERE MATURE PLANT GROWTH STOPS.

 SPREAD SHALL BE MEASURED TO THE END OF BRANCHING EQUALLY AROUND THE SHRUB MASS.
- SPREAD SHALL BE MEASURED TO THE END OF BRANCHING EQUALLY AROUND THE SHRUB MASS.
 PALMS SHALL BE MEASURED BY THREE HEIGHT CLASSIFICATIONS AS SPECIFIED IN THESE PLANS BASED
 ON SPECIES:
 i. OVERALL HEIGHT (OA): SHALL BE MEASURED FROM THE FROM THE GROUND TO THE AVERAGE
- FROND HEIGHT AT TIME OF INSTALLATION.

 ii. CLEAR TRUNK (CT): SHALL BE MEASURED FROM THE GROUND AT TIME OF INSTALLATION TO THE

BOTTOM OF THE FROND SHEATH.

iii. GRAY WOOD (GW): SHALL BE MEASURED FROM THE GROUND AT TIME OF INSTALLATION TO THE TOP OF HARDENED WOOD.

PLANTING SOIL & BACKFILL SPECIFICATIONS:

- 1. PLANTING BED SOIL AND PIT PLANTING BACKFILL MATERIALS SHALL BE FREE FROM HEAVY CLAY, STONES, LIMESTONE, LUMPS, PLANTS, ROOTS OR OTHER FOREIGN MATERIALS AND NOXIOUS VEGETATION. PLANTING BED SOIL AND PIT PLANTING BACKFILL MATERIALS SHALL NOT CONTAIN TOXIC SUBSTANCES WHICH MAY BE HARMFUL TO PLANT GROWTH. PIT PLANTING BACKFILL MATERIALS SHALL BE FERTILE, FRIABLE, NATIVE SOIL, ORGANIC AMENDMENTS (IF REQUIRED) WITHOUT A MIXTURE OF SUBSOIL MATERIALS.
- 2. PIT PLANTING BACKFILL MATERIALS FOR FIELD GROWN PLANT MATERIALS SHALL BE NATIVE SOIL FROM THE EXCAVATION OF THE PLANTING PIT PLANTING BACKFILL MATERIALS FOR CONTAINER GROWN PLANT MATERIALS SHALL BE AMENDED TO A RATIO OF ONE HALF (1/2) NATIVE SOIL & ONE HALF (1/2) APPROVED ORGANIC. AMEND PLANTING BEDS WITH 3" MINIMUM OF APPROVED ORGANICS AND OCOTILLO TO A DEPTH OF 6".
- 3. GRADE PLANTING BEDS AS TO ASSURE PROPER DRAINAGE AWAY FROM PLANT MATERIALS AND STRUCTURES. INCORPORATE A COMPLETE SLOW-RELEASE FERTILIZER BY TILLING.
- 4. INSTALL OTHER REQUIRED SOIL AMENDMENTS PER THE MANUFACTURER'S OR INDEPENDENT LAB'S RECOMMENDATIONS TO ACHIEVE OPTIMAL PH LEVELS (5.5-6.5) WITHIN THREE (3) MONTHS OF PLANTING. THE RESULTS OF PRE AND POST SOIL MODIFICATION TESTING SHALL BE SUBMITTED TO O'CONNELL & ASSOCIATES FOR APPROVAL PRIOR TO PLANTING. SELECT AND MIX TESTING SAMPLES' LOCATIONS BASED ON LIKE PLANTING CONDITIONS AND AREA PROXIMITY.
- 5. ALL GRADING AND BED PREPARATION SHALL BE SUBJECT TO O'CONNELL & ASSOCIATES FINAL APPROVAL. ANY REJECTED GRADING AND BED PREPARATION SHALL BE REMEDIED AT THE CONTRACTORS' EXPENSE.
- 6. ROOFTOP TERRACE PLANTING SOIL MIXTURE IS TO BE COMPROMISED OF 8%-17% ORGANIC MATTER OF WELL STABLE, WEED FREE, DECOMPOSED MATTER AND SAND BLENDS. CONTRACTOR TO PROVIDE SOIL MIX FOR PLANTINGS O N TERRACE.

COMMERCIAL FERTILIZER SPECIFICATIONS:

- 1. FERTILIZERS SHALL BE UNIFORM IN COMPOSITION, DRY, AND FREE FLOWING AND DELIVERED TO THE SITE IN ORIGINAL UNOPENED BAGS BEARING ALL THE MANUFACTURER'S LABELS. ALL FERTILIZER IS TO BE SLOW RELEASE AND COMPLETE WITH NECESSARY MICRONESIANS. AFTER INSTALLATION, FERTILIZER SHALL BE CLEANED FROM ALL HARDSCAPES SURFACES AND WATERED IN THOROUGHLY PER MANUFACTURER'S SPECIFICATIONS.
- 2. TREES AND SHRUBS MIXTURE SHALL CONSIST OF A SLOW RELEASE THE FORMULATION OF THREE (3) PARTS NITROGEN TO ONE (1) PART PHOSPHOROUS TO TWO (2) PARTS POTASSIUM (3-1-2 RATIO) AT A RATE OF FOUR TO SIX (4-6) POUNDS PER ONE HUNDRED (100) SQUARE FEET. ALL TREES AND SHRUBS SHALL BE FERTILIZED BIMONTHLY DURING THE GROWING SEASON AT A RATE OF FOUR TO SIX (4-6) POUNDS PER ONE HUNDRED (100) SQUARE FEET OF BEDS / TREE CANOPY (THREE (3) FEET FORM BASE TO DRIPLINE) OR PER MANUFACTURE'S RECOMMENDATION.
- 3. SOD FERTILIZER SHALL BE TURF SPECIFIC FOR ESTABLISHING NEW LAWNS AND APPLIED PER MANUFACTURE'S RECOMMENDATION. UPON ESTABLISHMENT, THE TURF SHALL BE FERTILIZED AT A RATE OF ONE (1) POUND OF ACTUAL NITROGEN PER THOUSAND (1000) SQUARE FEET OR PER MANUFACTURE'S RECOMMENDATION. BAHIA TURF SHALL RECEIVE FERTILIZATION AT A HALF (1/2) RATE OF POUND OF ACTUAL NITROGEN PER THOUSAND (1000) SQUARE FEET OR PER MANUFACTURE'S RECOMMENDATIONS. APPLY ONE HALF (1/2) POUND OF A PALM SPECIFIC ONE (1) PART NITROGEN TO ONE (1) PART POTASSIUM WITH THREE TENTHS (0.3) PARTS MAGNESIUM FERTILIZER FOR ALL ESTABLISHED PALMS PER TWO (2) OF HEIGHT OR PER MANUFACTURE'S RECOMMENDATION.

MULCH SPECIFICATIONS:

- MULCH MATERIAL SHALL BE FORESTRY RESOURCES VITA MULCH, PINE STRAW, OR AS SPECIFIED ON THE DRAWINGS, OR APPROVED SUBSTITUTE PRIOR TO PROCUREMENT BY O'CONNELL & ASSOCIATES IN WRITING.
- 2. MULCH MATERIAL SHALL BE UNIFORM, FREE FROM WEED SEEDS, AND CLEAN OF DEBRIS. MULCH MATERIAL SHALL BE APPLIED UNIFORMLY TO A MINIMUM 3" SETTLED DEPTH AFTER WATERING IN.
- 3. A 12" MULCH ZONE SHALL BE MAINTAINED ALONG ENTIRE EDGE OF THE PLANTING BED. MULCH SHALL NOT BE PLACED WITHIN 3" FROM SHRUB CROWNS AND 6" FROM TREE AND PALM TRUNKS. NO MULCH SHALL BE APPLIED TO ANY PLANTINGS LOCATED WITHIN A STORMWATER MANAGEMENT
- 4. SNAPSHOT OR APPROVED EQUAL IN WRITING BY O'CONNELL & ASSOCIATES PRIOR TO PROCUREMENT SHALL BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS PRIOR TO INSTALLATION OF MULCH.

SOD SPECIFICATIONS:

- ALL SOD SHALL BE FLORATAM ST. AUGUSTINE UNLESS OTHERWISE STATED IN THESE PLANS. ALL SOD SHALL MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETY TYPE. ALL SOD SHALL BE HEALTHY, WEED-FREE, INSECT-FREE AND DISEASE FREE.
- 2. ALL SOD JOINTS SHALL BE STAGGERED IN A RUNNING BOND PATTERN, AND INSTALLED BUTT TIGHT TO MINIMIZE AIR GAPS, THE GRADE SHALL BE SMOOTH, FREE OF DEBRIS, POSITIVELY DRAINED, AND MOIST PRIOR TO SOD INSTALLATION. ALL SOD JOINTS SHALL BE STAGGERED IN A "RUNNING BOND" PATTERN. GAPS BETWEEN THE JOINTS SHALL NOT BE EXCEPTED.
- 3. ALL CUT PIECES OF SOD LESS THAN ONE HALF (1/2) A PIECE SHALL BE INSTALLED BETWEEN TWO (2) FULL PIECES TO INCREASE SURVIVABILITY.
- 4. THE SOD SHALL BE ROLLED IN TWO (2) DIRECTIONS PERPENDICULAR FROM ONE ANOTHER AFTER INSTALLATION AND WATER APPLICATION TO ENSURE PROPER GROUND CONTACT. IN AREAS WHERE
- A ROLLER CANNOT BE USED, HAND TAMPING SHALL BE REQUIRED.

 5. SOD SHALL BE INSTALLED AND WATERED WITHIN 24 HOURS AFTER HARVESTING. ANY SOD LEFT ON A PALLET LONGER THAN TWENTY-FOUR HOURS SHALL BE REJECTED AT THE CONTRACTOR'S EXPENSE. ALL SOD SHALL BE SUBJECT TO O'CONNELL & ASSOCIATES FINAL APPROVAL. ANY REJECTED SOD SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- 6. GRADING FOR LANDSCAPE BERMING SHOWN ON THESE PLANS AND IN DETAILS IS APPROXIMATE ONLY TO ENSURE DESIGN INTENT.

INVASIVE PLANT MATERIAL:

- 1. ALL INVASIVE EXOTIC PLANTS SHALL NOT BE PLANTED AND SHALL BE REMOVED FROM THE DEVELOPMENT AREA. REMOVAL / CONTROL METHODS AND A STATEMENT THAT THE DEVELOPMENT AREA WILL BE MAINTAINED FREE FROM INVASIVE EXOTIC PLANTS IN PERPETUITY ARE REQUIRED.
- 2. THE PLACEMENT OR USE OF NON-NATIVE NOXIOUS, INVASIVE PLANTS IS PROHIBITED. PROHIBITED PLANTS ARE DEFINED AS THOSE PROHIBITED EXOTIC, INVASIVE AND NOXIOUS PLANTS AS IDENTIFIED BY THE FLORIDA EXOTIC PEST PLANT COUNCIL AND PUBLISHED ON THEIR INVASIVE PLANT SPECIES LIST, OR OTHERWISE PROHIBITED BY UF/IFAS CENTER FOR AQUATIC AND INVASIVE PLANTS.
- 3. A COMPLETE LIST OF NOXIOUS WEEDS PROHIBITED ON THE SITE CAN BE FOUND IN THE FLORIDA ADMINISTRATIVE CODE (F.A.C.) RULE: 5B-57,007.

MATERIAL SUBSTITUTIONS:

- NO SUBSTITUTION OF ANY MATERIAL VARIETIES, GRADES, OR SIZES SHALL BE ALLOWED UNLESS OTHERWISE APPROVED IN WRITING BY O'CONNELL & ASSOCIATES. ANY AND ALL UNAUTHORIZED SUBSTITUTIONS SHALL REQUIRE REPAIRING AND / OR REPLACING AT THE DISCRETION OF O'CONNELL & ASSOCIATES AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE, PRIOR TO BIDDING, TO NOTIFY O'CONNELL & ASSOCIATES IN WRITING OF ANY PROPOSED SUBSTITUTIONS AND ANY DEVIATIONS FROM THE SPECIFICATIONS AS DEFINED IN THESE PLANS.
- 2. ANY PROPOSED SUBSTITUTIONS SHALL REQUIRE A CONTRACTOR REQUESTS FOR ITS USE IN WRITING A MINIMUM OF FOURTEEN (14) DAYS PRIOR TO BID DATE OR PROCUREMENT (WHICHEVER IS APPLICABLE).
- 3. CONTRACTOR SHALL PROVIDE WITH THIS SUBSTITUTION REQUEST:
- i. A CERTIFICATE FROM MATERIAL MANUFACTURER STATING THAT PROPOSED PRODUCTS MEET OR EXCEED REQUIREMENTS OF THESE SPECIFICATIONS. DOCUMENTED PROOF INDICATING THAT THE PROPOSED SUBSTITUTION MEETS OR EXCEEDS ALL APPLICABLE STANDARDS FOR THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM), AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO), AND ANY OTHER APPLICABLE GOVERNING AGENCY.

 ii. DOCUMENTED PROOF THAT PROPOSED MATERIALS HAVE A FIVE (5) YEAR PROVEN RECORD OF PERFORMANCE.

 iii. EXAMPLES OF AT LEAST THREE (3) LOCAL PROJECTS THAT O'CONNELL & ASSOCIATES CAN

IRRIGATION SPECIFICATIONS:

- 1. CONTROLLER START TIMES TO BE SET PER LOCAL REQUIREMENTS.
- 2. THE VALVE BOXES SHALL BE CARSON INDUSTRIES 'SPEC GRADE'. USE MODEL 910-10-4 FOR ROUND BOXES, MODEL 1419-12-4 FOR RECTANGULAR BOXES SIZED APPROPRIATELY.
- 3. ALL PIPE AND VALVE LOCATIONS ARE SCHEMATIC AND PIPE SIZING IS BASED ON STANDARD CONVENTIONS. ALL SIZES INDICATED ARE THE STARTING POINT OF THE RUN OF THAT PARTICULAR SIZE. SIZING STARTS FROM THE LAST HEAD OF THE RUN MOVING TOWARDS THE VALVE. ALL UNLABELED PIPE SIZE IS TO BE CONSIDERED 1" PIPE. MAINLINES ARE TO BE INSTALLED 3' MIN OFF PAVING, WHEN POSSIBLE. ALL 2" & GREATER MAINLINE FITTINGS TO BE PVC SCH 40 OR GREATER. SERVICE TEES TO BE
- USED AT VALVE LOCATIONS.

 4. ALL IRRIGATION VALVE WIRING SHALL BE RUN IN IT'S OWN SLEEVE RUNNING PARALLEL TO OTHER SLEEVES. 12 AWG WIRES TO BE RUN FROM CONTROLLER TO VALVES AND ANY STUB-OUTS.
- GROUNDING TO BE PROVIDED PER MANUFACTURER'S SPECIFICATIONS AT CONTROLLER.

 5. THE OWNER HAS SECURED ALL NECESSARY WATER USE PERMITS FOR THE WORK ILLUSTRATED HEREIN.
 THE CONTRACTOR SHALL COORDINATE PERMITS WITH THE OWNER PRIOR TO THE COMMENCEMENT
 OF ANY PREPARATION OR WORK RELATED OPERATIONS. COPIES OF PERMITS SHALL MADE AVAILABLE
 TO THE CONTRACTOR'S SUPERVISOR. WORK IN THE ROW SHALL CONFORM TO THE STANDARDS &
 SPECIFICATIONS OF THE LOCAL AND/OR STATE JURISDICTION.
- 6. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR ALL WORK INVOLVING ELECTRICAL HOOK-UPS AND INSTALLATIONS FOR THIS PROJECT RELATED TO THE WORK ILLUSTRATED AND SPECIFIED HEREIN. CONTRACTORS ARE ADVISED TO REFER TO THE SPECIFICATIONS, CONTRACT DOCUMENTS, AND DRAWING SETS FOR A COMPLETE AND MORE DETAILED DISCLOSURE OF PERFORMANCE STANDARDS & REQUIREMENTS.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH TRADES CONDUCTING WORK ON THE PROJECT IN SUCH A MANNER AS TO ALLOW FOR THE SPEEDY & ORDERLY COMPLETION OF THE WORK ILLUSTRATED.
- 8. ALL PVC PIPING AND ALL APPLICABLE COMPONENTS NECESSARY FOR PROPER INSTALLATION SHALL BE COLOR CODED PANTONE PURPLE 522 CPVC PIPE WHICH IS DESIGNED EXCLUSIVELY TO TRANSPORT RECLAIMED WATER, AND ELIMINATE PROBLEMS OF CROSS CONTAMINATION WITH DOMESTIC POTABLE WATER SUPPLY. ALL PVC PIPE SHALL BE PRINTED ON TWO SIDES AS AN EXTRA SAFETY PRECAUTION FOR EASE OF IDENTIFICATION. PVC PIPE LABEL SHALL STATE PIPE SPECIFICATIONS (SIZE, PRESSURE RATING, ETC.) AS WELL AS CAUTION RECLAIMED WATER.
- 9. ALL RECLAIMED O'RING PVC PIPE (CLASS 200) SHALL MEET ASTM-D 3139 FOR GASKETED BELL PIPE. ALL PVC PIPE SHALL BE MANUFACTURED FROM RIGID PVC COMPOUND, MEETING CELL CLASS 12454-B SPECIFICATION, ACCORDING TO ASTM-D 1784 TYPE 1 GRADE 1.
- ALL RECLAIMED SLIP FIT PVC PIPE (CLASS 200) SHALL BE MANUFACTURED FROM RIGID PVC COMPOUND MEETING CELL CLASS 12454-B SPECIFICATIONS, ACCORDING TO ASTM-D 1784 TYPE 1 GRADE 1. ALL PVC CLASS 200 PIPE MEETS ASTM-D 2241, FOR PLAIN END PIPE, ASTM-D 2672 FOR SOLVENT WELD BELL END PIPE AND ASTM-D 3139 FOR GASKETED BELL PIPE.
- 10. A TWO-WIRE CONTROL SYSTEM HAS BEEN SPECIFIED. THE CONTRACTOR SHALL REVIEW SAID SYSTEM PRIOR TO EXECUTION TO ASSURE THAT THE RUNS INDICATED HEREIN ARE COMPATIBLE WITH THE CAPABILITIES OF THE CONTROL SYSTEM SPECIFIED. NUMBER ALL VALVES WITH VALVE TAGS. LABEL INSIDE OF TIMECLOCK CABINET DOOR TO CORRESPOND WITH VALVE LABELS.
- THE CONTRACTOR SHALL ACKNOWLEDGE THAT WRITTEN SPECIFICATIONS ARE PART OF THESE CONTRACT DOCUMENTS AND SHALL BE RESPONSIBLE FOR THE THOROUGH REVIEW AND ADHERENCE THERETO. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT IN A TIMELY MANNER PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACT DOCUMENTS (DRAWINGS & SPECIFICATIONS) TAKE PRECEDENCE OVER ASSUMED INDUSTRY
- 12. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS AS SPECIFIED. AS-BUILT DRAWINGS SHALL BE KEPT AND DEVELOPED ON-SITE THROUGHOUT THE COURSE OF WORK ON THE PROJECT.
- 13. ALL SLEEVING FOR MAINLINES, SUB-MAINS, LATERALS & WIRES SHALL RECEIVE THEIR OWN INDIVIDUAL SLEEVES AS SPECIFIED. THE CONTRACTOR SHALL THOROUGHLY VERIFY ALL EXISTING SLEEVE LOCATIONS INDICATED ON THE DRAWINGS AND SHALL VERIFY THEM AS AN INITIAL APPLICATION OF WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO THE EXECUTION OF THE MAINLINE WORK.
- 14. THE CONTRACTOR SHALL INSTALL A COLOR CODED METAL DETECTABLE MARKING TAPE WHICH CLEARLY NOTES: (CAUTION: IRRIGATION LINE BURIED BELOW) AT ONE FOOT (1') BELOW FINISHED GRADE & ON ALL MAINLINES, EXISTING SLEEVES AND PROPOSED SLEEVES. TAPE AS MANUFACTURED BY LINEGUARD, INC. WHEATON, IL 60187.
- 15. THE CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR ALL SLEEVING & DIRECTIONAL BORES, AS SHOWN AND/OR APPLICABLE. MAINLINES ARE TO BE BURIED AT THE MINIMUM DEPTH OF THIRTY-SIX INCHES (36"), AND LATERAL LINES TO BE BURIED AT THE MINIMUM DEPTH OF TWENTY-FOUR INCHES (24") UNLESS A GREATER DEPTH IS SPECIFIED. MAINLINE & VALVES ARE SHOWN IN SCHEMATIC FORM (HORIZONTALLY). LOCATE AS NOTED OR LOGICALLY IMPLIED ON THE DRAWINGS. LOCATE ALL VALVE BOXES IN PLANTING BEDS OR MULCHED AREAS WITH A MINIMUM OF THREE FEET (3") FROM BACK OF CURB OR EDGE OF PAVEMENT, AND A MINIMUM OF ONE FOOT CLEAR ZONE FROM ALL PLANTS MATERIALS.
- 16. WHEN & WHERE APPLICABLE, ALL VALVES, SPLICES WITHIN VALVE CONTROL LINES, & QUICK COUPLERS SHALL BE LOCATED WITHIN SPECIFIED VALVE BOXES AS FOLLOWS: CONTROL VALVES, AND QUICK COUPLERS -- SPECIFIED VALVE BOXES; GATE VALVES & SPLICES -- 10" ROUND VALVE BOXES; FILTERS AND OTHER INSTALLATIONS REQUIRING ADDITIONAL SPACE -- RECTANGULAR BOXES 12"X 7". MANIFOLD VALVES WHEN POSSIBLE; SEE DETAILS.
- 17. CONTRACTOR SHALL FIELD LOCATE ALL SLEEVES AND VALVES UTILIZED BY THE IRRIGATION CONTRACTOR, REGARDLESS OF INSTALLER, AND SHALL BE ILLUSTRATED IN-PLACE ON THE FINAL AS-BUILT DRAWINGS. THE DEPTH BELOW FINISHED GRADE, TO THE NEAREST FOOT OF EACH END OF EACH SLEEVE & LOCATION SHALL BE NOTED ON THE AS-BUILT DRAWINGS.

PROJECT SUBMITTALS:

- 1. THE PROJECT SUBMITTALS LIST WILL BE GENERATED BY THE LANDSCAPE ARCHITECT AND MUST BE COMPLETED BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO
- PROJECT COMMENCEMENT.

 2. ALL PROJECTS SUBMITTALS MUST BE COMPLETED AND COMPLIED IN AN EASILY REPRODUCIBLE FORM.

 SUBMITTAL SHEETS THAT ARE NOT LEGIBLE AND REPRODUCIBLE WILL BE REJECTED. SUBMITTAL SHEETS
- THAT DO NOT CLEARLY IDENTIFY THE PRODUCTS OR MATERIALS SELECTED WILL BE REJECTED.

 3. PRODUCTS INSTALLED ON THE PROJECT SITE THAT ARE NOT CONSISTENT WITH THE PROJECT SUBMITTALS WILL BE REMOVED AND REPLACED WITH THE PRODUCTS IDENTIFIED IN THE PROJECT SUBMITTAL PACKAGE AT THE CONTRACTORS' EXPENSE.

REQUIRED SUBMITTAL FORM

SUBMITTAL DESCRIPTION	SUBMITTED	REJECTED	resubmitted	APPROVED
	GE	ENERAL SUBMITTALS		
EMERGENCY NUMBERS				
MOT INDEX				
VIDEO				
LOCATE TICKETS				
PROJECT SCHEDULE				
	LAN	DSCAPE SUBMITTALS		
PLANT NURSERY LIST				
ALL NURSERY STATE INSPECTION CERTIFICATION				
MULCH				
PESTICIDE LICENSE				
STAKING METHODS				
SOIL TESTING RESULTS				
FERTILIZER				
	IRRI	GATION SUBMITTALS		
PIPING				
SLEEVING				
FITTINGS				
VALVE BOXES				
VALVES				
DRIP TUBING				
FILTERS				
MAGNETIC DETECTOR TAPE				
GROUNDING ROD				
WIRE				
WIRE CONNECTORS				
CONTROLLER				
SENSORS				
GLUE & PRIMER				
FILTER FABRIC				
PUMP STATION				

PROJECT COMPLETION:

SUBSTANTIAL COMPLETION

- 1. THE CONTRACTOR SHALL PROVIDE, IN WRITING, A MINIMUM OF FORTY-EIGHT (48) HOURS NOTICE TO O'CONNELL & ASSOCIATES TO REQUEST SUBSTANTIAL COMPLETION INSPECTIONS. ONCE ALL WORK IS CONSIDERED COMPLETE PER THE PERMIT, APPROVED CONTRACT DOCUMENTS AND THESE PLANS, THEN THE OWNER AND LANDSCAPE ARCHITECT SHALL DECLARE THE PROJECT SUBSTANTIAL COMPLETE.
- 2. A WRITTEN DECLARATION OF SUBSTANTIAL COMPLETION FROM THE LANDSCAPE ARCHITECT AND OWNER TO THE CONTRACTOR CONSTITUTES THE BEGINNING OF THE MINIMUM ONE (1) YEAR MATERIAL GUARANTEE PERIOD AND THE NINETY (90) DAY ESTABLISHMENT PERIOD FOR
- 3. LANDSCAPE CONTRACTOR TO GUARANTEE ALL PLANT MATERIAL FOR A MINIMUM OF ONE (1) YEAR FOLLOWING THE DATE OF SUBSTANTIAL COMPLETION.
- 4. THE CONTRACTOR SHALL SUBMIT ONE (1) HARD COPY AND ONE (1) DIGITAL COPY OF THE AS-BUILT DRAWINGS FOR THE PROJECT PRIOR TO REQUESTING A SUBSTANTIAL COMPLETION INSPECTION.
- 5. THE CONTRACTOR SHALL SUBMIT ONE (1) HARD COPY AND ONE (1) DIGITAL COPY OF THE AN ANNUALIZED MAINTENANCE AND OPERATING MANUAL WHICH DETAILS ALL WATERING, FERTILIZATION, AND TRIMMING SCHEDULES, BEST MANAGEMENT PRACTICES, AND MATERIALS INSTALLED FOR THE PROJECT.

MAINTENANCE PERIOD

- THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF ALL PROJECT AREAS WITHIN THIS SCOPE OF WORK, INCLUDING: IRRIGATION, MULCH, WEEDS, MOWING, FERTILIZING, PLANT REPLACEMENT, ETC. THROUGH THE COURSE OF THE PROJECT AND THROUGH THE END OF THE NINETY (90) DAY MAINTENANCE & ESTABLISHMENT PERIOD.
- 2. THE PROJECT WILL ONLY BE ACCEPTED AND DECLARED SUBSTANTIAL COMPLETE AS A WHOLE. INDIVIDUAL PHASES, OF SUB-PHASES WILL NOT BE REVIEWED FOR SUBSTANTIAL COMPLETION WITH
- APPROVAL OF THE OWNER.

 3. ALL DEAD PLANTS SHALL BE REPLACED AT THE END OF THE MAINTENANCE PERIOD.

WARRANTY PERIOD

- 1. THE CONTRACTOR SHALL WARRANTY ALL WORKMANSHIP FOR THE PERIOD OF ONE YEAR AFTER FINAL APPROVAL FROM BY O'CONNELL & ASSOCIATES AND FINAL ACCEPTANCE FROM THE OWNER.
- 2. FINAL ACCEPTANCE BEGINS WITH THE CONTRACTOR'S FULL COMPLIANCE WITH THE SUBSTANTIAL COMPLETION'S PUNCH LIST AS PROVIDED BY O'CONNELL & ASSOCIATES AND APPROVED BY THE
- 3. UPON DIRECTION OF O'CONNELL & ASSOCIATES THE CONTRACTOR SHALL REPLACE ANY DEAD, UNHEALTHY, NON-CONFORMING, DAMAGED MATERIAL AT THE CONTRACTOR'S EXPENSE WITHIN 7
- DAYS OF THE ISSUANCE PUNCH LIST UNLESS OTHERWISE SPECIFIED BY O'CONNELL & ASSOCIATES.

 4. UPON SUBSTANTIAL COMPLETION, THE CONTRACTOR SHALL NOT BE LIABLE FOR "ACTS OF GOD" AND

FINAL COMPLETION

1. THE CONTRACTOR SHALL PROVIDE, IN WRITING, A MINIMUM OF FORTY-EIGHT (48) HOURS NOTICE TO O'CONNELL & ASSOCIATES TO REQUEST FINAL COMPLETION INSPECTIONS. ONCE ALL WORK IS CONSIDERED COMPLETE PER THE PERMIT, APPROVED CONTRACT DOCUMENTS AND THESE PLANS THEN THE OWNER AND LANDSCAPE ARCHITECT SHALL DECLARE THE PROJECT COMPLETE. FINAL COMPLETION OF THE PROJECT ENDS THE ONE (1) YEAR MATERIAL GUARANTEE PERIOD.

VEGETATIVE MAINTENANCE NOTES:

VANDALISM, NEGLIGENCE, AND THEFT BY OTHERS.

PRUNING

PLANTS SHALL BE PRUNED REGULARLY TO REMOVE ALL BROKEN, DEAD AND DISEASED LIMBS, ANY CROSS-RUBBING WOOD, SUCKERS AND WATER SPROUTS. SIGNIFICANT PRUNING SHOULD BE DONE IN LATE WINTER OR SPRING. NEVER REMOVE MORE THAN ONE-QUARTER OF A LIVE TREE CROWN IN A SINGLE YEAR. DO NOT PRUNE WHEN THE FLUSH OF NEW SPRING LEAVES ARE FORMING. DO NOT PRUNE BRANCHES WITH A FLUSH CUT, BUT INSTEAD CUT TO THE OUTSIDE OF THE BRANCH COLLAR. ALL PRUNING CUTS SHALL BE CLEAN AND FREE OF ANY PAINTS OR SEALERS. SPRING FLOWERING SHRUBS SHALL BE PRUNED IMMEDIATELY AFTER SPRING BLOOMING. SUMMER FLOWERING SHRUBS SHALL BE PRUNED IN LATE WINTER. AVOID EXCESSIVE "SHEARING" OF SHRUBS, WHICH PROMOTES UNHEALTHY GROWTH CONDITIONS. PRUNE SHRUBS IN THE SPRING AND SUMMER BY ALTERNATING HEADING BACK AND SHEARING TECHNIQUES. MINIMIZE FALL PRUNING AS THIS ENCOURAGES NEW GROWTH, WHICH IS SUSCEPTIBLE TO COLD DAMAGE. HEDGES SHALL BE TRIMMED SO THAT THE BOTTOM IS WIDER THAN THE TOP. SHRUBS SHALL BE PRUNED NO LESS THAN, BUT NOT LIMITED TO THE REQUIRED HEIGHT OF' THE PARTICULAR SITUATION FOR IT IS BEING UTILIZED: I.E., PERIMETER SHRUB AT MINIMUM 30", SIGHT TRIANGLE HEIGHT OF NO HIGHER THAN 3.5 OR 4.25 FEET, OR ANY OTHER VISUAL HEIGHT REQUIREMENTS. MAINTAIN THE SIZE AND PROPORTION OF PLANTS TO ONE ANOTHER AND TO THE LANDSCAPE AS A WHOLE.

LANDSCAPE BUFFERS SHALL BE PERPETUALLY MANAGED AND MAINTAINED IN A STATE OF COMPLIANCE WITH THE APPROVED LANDSCAPE PLANS. FAILURE TO MAINTAIN SUCH LANDSCAPED BUFFERS IN AN ATTRACTIVE AND HEALTHY STATE SHALL BE CONSIDERED A VIOLATION AND SUBJECT TO ENFORCEMENT IN ACCORDANCE WITH THE COUNTY'S LAND DEVELOPMENT CODE.

2. **FERTILIZER**

FERTILIZER REQUIREMENTS SHALL BE BASED ON SPECIFIC SITE SOIL ANALYSIS. FERTILIZER MAY BE APPLIED IN THE SPRING AND FALL (USE LOW NITROGEN IN THE FALL). IN THE SPRING BROADCAST 15-5-15 FERTILIZER OVER THE AREA OF ROOT GROWTH AT A RATE OF SIX (6) POUNDS PER 1,000 SQUARE FEET. IN THE FALL BROADCAST 15-5-15, 5-5-20, 5-0-15 OR 5-0-20 FERTILIZER OVER THE AREA OF ROOT GROWTH AT A RATE OF TEN (10) POUNDS PER 1,000 SQUARE FEET. USE A GRANULAR, NON-BURNING PRODUCT, WITH MICRONUTRIENTS AND HALF OF THE NITROGEN IS TO BE IN A SLOW RELEASE FORM. FOR AZALEAS, CAMELLIAS, GARDENIAS, AND DOGWOODS, USE A SPECIFIC, ACID-RICH FORMULA. FOR PALMS USE SPECIAL PALM FERTILIZERS WHICH CONTAIN EQUIVALENT RATES OF NITROGEN AND POTASSIUM, MICRONUTRIENTS AND ADDITIONAL MAGNESIUM. FERTILIZER SHALL BE APPLIED PER MANUFACTURERS INSTRUCTIONS. NUTRIENT ABSORPTION WILL BE AFFECTED BY SOIL PH. SPECIFIC EVALUATION OF THIS NUTRIENT/PH RELATIONSHIP MAY BE NECESSARY IF PLANT PERFORMANCE IS LOW.

3. PEST CONTROL

PEST CONTROL SHOULD ONLY BE APPLIED AS NECESSARY. AN INTEGRATED PEST MANAGEMENT SYSTEM FOR ESTABLISHING A HEALTHY ENVIRONMENT FOR PROPER GROWTH CONDITIONS IS THE PREFERRED METHOD FOR PEST CONTROL. NON-TOXIC HORTICULTURAL OIL RECOMMENDED. APPLY A BROAD-SPECTRUM FOLIAR HERBICIDE TO MULCHED AREAS AS NEEDED BY SPOT SPRAYING. APPLY PRE EMERGENT FOLIAR HERBICIDE SPRAY TO LAWNS IN LATE WINTER AND POST EMERGENT FOLIAR HERBICIDE SPRAY TO LAWNS IN EARLY SPRING.

4. **MOWING**MOW TURF

MOW TURF TO A CONSISTENT HEIGHT OF 2-3" FOR CENTIPEDE AND 3-4" FOR ST. AUGUSTINE AT A MINIMUM OF TWO-WEEK INTERVALS DURING GROWING SEASON. USE MULCHING MOWER TO RECYCLE NUTRIENTS. DE-THATCHING AND AERATION MAY BE PERFORMED EVERY 2-3 YEARS OR AS NEEDED.

5. WATERING

THE MINIMUM WATERING SCHEDULE FOR NEWLY PLANTED MATERIAL SHALL BE A MINIMUM OF 1" PER

WEEK. WATER SHOULD BE APPLIED IN THE EARLY MORNING HOURS. WATER REGULARLY FOR TWO

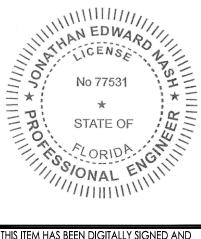
YEARS OR UNTIL ESTABLISHED. DEEP, INFREQUENT SOAKINGS, WHICH ALLOW THE SOIL MOISTURE TO

DRAIN, IS THE WATERING METHOD PREFERRED FOR ESTABLISHED PLANTS. THIS TYPE OF SOAKING WILL

ENCOURAGE A DEEP ROOT SYSTEM, WHICH WILL ENABLE THE PLANT TO WITHSTAND PERIODS OF DROUGHT.

ALL PLANT MATERIAL SHALL BE WATERED BY AN AUTOMATIC IRRIGATION SYSTEM. THE IRRIGATION SYSTEM SHALL BE DESIGNED TO AVOID WATER COVERAGE ON SIDEWALKS, PARKING AREAS AND

O'CONSULTING ENGINEERS, LLC.



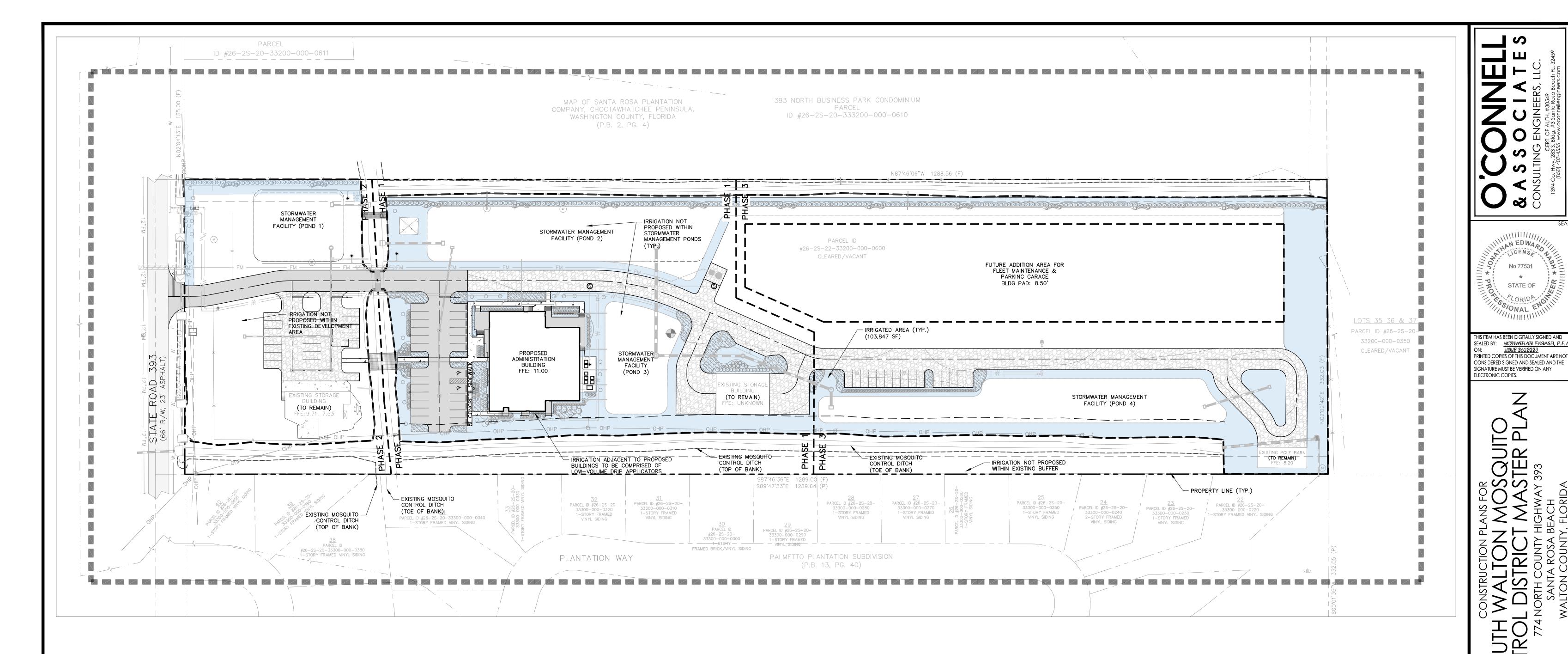
SEALED BY: <u>MONTATELAGE EMBLAGE</u>, P.E.,
ON: <u>JUNE 362023</u>
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JTH WALTON MOSQUIT ROL DISTRICT MASTER F 774 NORTH COUNTY HIGHWAY 393 SANTA ROSA BEACH

LANDSCAPE NOTES

1P6.1

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IRRIGATION DATA:

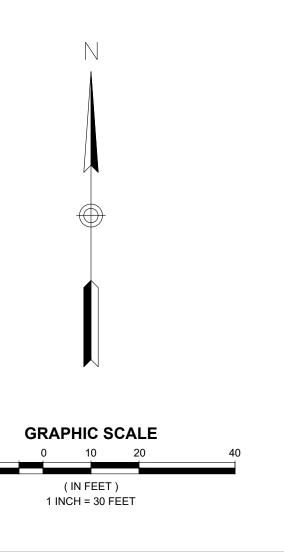
_		IRRIGATED AREA	
TOTAL AREA	=	77,350	SF
APPLICATION RATE (1-1/2" / WEEK)	=	.125	FT
VOLUME PER WEEK	=	9,669	CF/WK
GALLONS PER WEEK	=	72,332	GAL.

IDDIC ATED ADEA

IRRIGATION PLAN NOTES:

- 1. WHENEVER A SYSTEM UTILIZING RECLAIMED WATER IS IN PLACE AND AVAILABLE USERS MUST ACCESS AND UTILIZE THAT SYSTEM.
- 2. MOISTURE-SENSOR AND/OR RAIN SHUT-OFF SWITCH EQUIPMENT SHALL BE REQUIRED ON AUTOMATIC IRRIGATION SYSTEMS TO AVOID IRRIGATION DURING PERIODS OF SUFFICIENT RAINFALL. SAID EQUIPMENT SHALL CONSIST OF AN AUTOMATIC MECHANICAL OR ELECTRONIC SENSING DEVICE OR SWITCH THAT WILL OVERRIDE THE IRRIGATION CYCLE OF THE SPRINKLER SYSTEM WHEN ADEQUATE RAINFALL HAS OCCURRED. THE USE OF LOW VOLUME EMITTERS OR TARGET IRRIGATION IS REQUIRED FOR TREES, SHRUBS, AND GROUND COVERS TO MINIMIZE IRRIGATION OVERTHROW ONTO IMPERVIOUS SURFACES.
- 3. THE PROTECTION OF NATIVE DROUGHT TOLERANT PLANTS IS ENCOURAGED. CONTRACTOR TO FIELD ADJUST PLANTING AND IRRIGATION LAYOUT AS NECESSARY TO PRESERVE AND PROTECT EXISTING NATIVE DROUGHT TOLERANT PLANTS. NATURAL VEGETATION SHALL BE PRESERVED OR REESTABLISHED WHEN POSSIBLE.
- 4. ALL PLANTED AREAS SHALL BE PROVIDED WITH AN IRRIGATION SYSTEM FOLLOWING THE REQUIREMENTS OF § 373.62, F.S., AND THE FOLLOWING REGULATIONS: A) IRRIGATION SYSTEMS MUST BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE TECHNICAL STANDARDS CONTAINED IN THE PLUMBING VOLUME OF THE FLORIDA BUILDING CODE OR FLORIDA IRRIGATION SOCIETY STANDARDS, AS AMENDED. B) COMMERCIALLY INSTALLED IRRIGATION SYSTEMS MUST BE OPERATED AND MAINTAINED ACCORDING TO THE GREEN INDUSTRIES BEST MANAGEMENT PRACTICES FOR PROTECTION OF WATER RESOURCES IN FLORIDA (2002).
- 5. ALL REQUIRED LANDSCAPE AND IRRIGATION SHALL BE INSTALLED ON THE SUBJECT PROPERTY. IRRIGATION HEADS SHALL BE PLACED IN TRIANGULAR SPACING TO PROVIDE 100% HEAD TO HEAD COVERAGE. THIS PLAN IS SCHEMATIC ALL FINAL LOCATIONS SHALL BE DETERMINED BY CONTRACTOR. IT IS THE CONTRACTORS RESPONSIBILITY TO ADJUST THE HEAD LOCATIONS, TYPE AND SIZE AND ANY OTHER SYSTEM COMPONENTS TO COMPLY WITH REQUIREMENTS OF LANDSCAPE PLANTING AS INSTALLED. THESE ADJUSTMENTS MUST BE COMPETED AT THE CONTRACTOR'S EXPENSE TO THE OWNER EXCEPT WHEN AUTHORIZED IN WRITING. AN APPROVED RAIN SENSOR AND CONTROLLER ARE PROPOSED AND FINAL LOCATION BY CLIENT. NO IRRIGATION SHALL BE SPRAYED ON OR WITHIN ROADS, SIDEWALKS, ADJACENT PROPERTY OR CONSERVATION AREAS. IRRIGATION SPRINKLER HEADS SHALL NOT BE PLACED WITHIN ONE FOOT(1') OF A BUILDING WALL.
- IRRIGATION LINES INSTALLED WITH THE DRIPLINE OF EXISTING TREES SHALL BE HAND DUG AND ROUTED TO MINIMIZE DAMAGE TO THE ROOT SYSTEM.

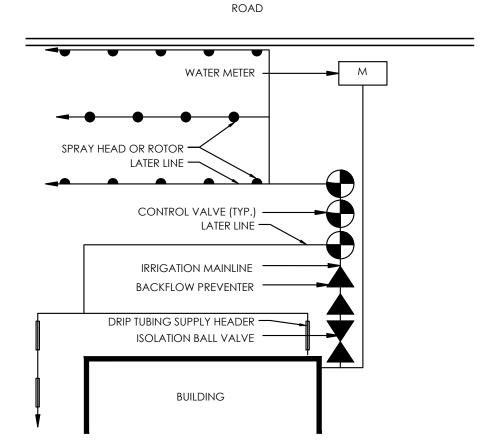




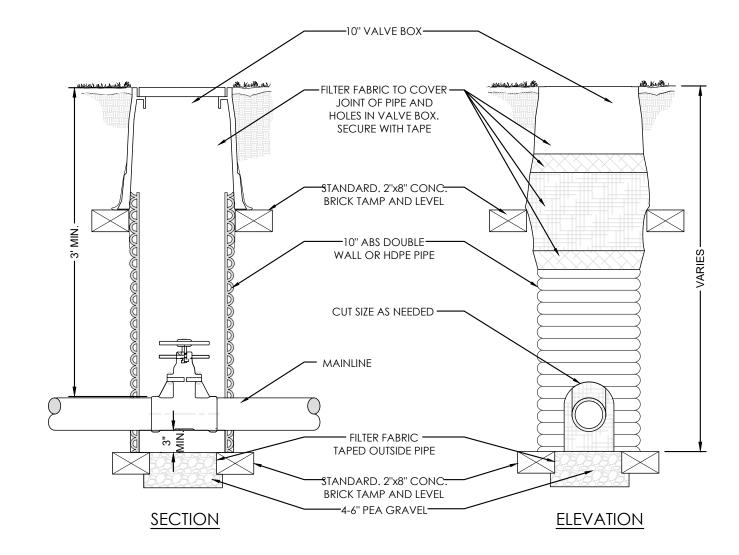
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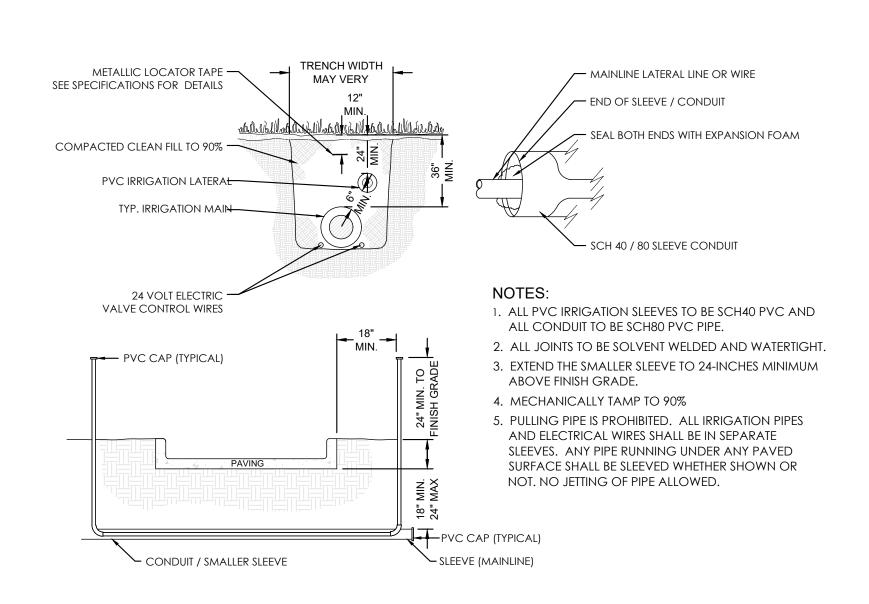


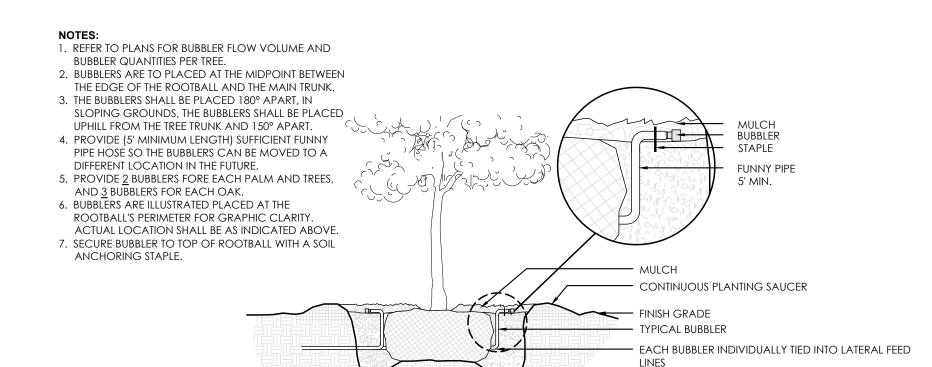
SCHEMATIC IRRIGATION LAYOUT



GATE VALVE INSTALLATION DETAIL

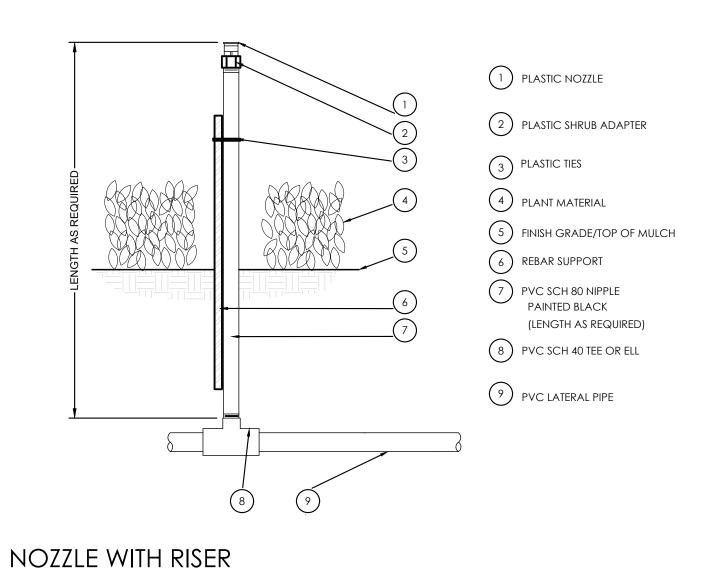
SLEEVE & TRENCH DETAIL

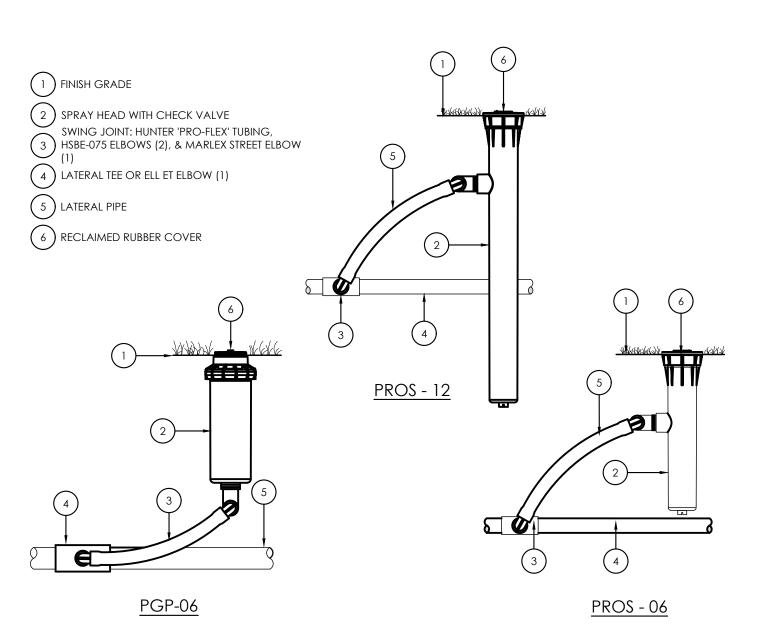




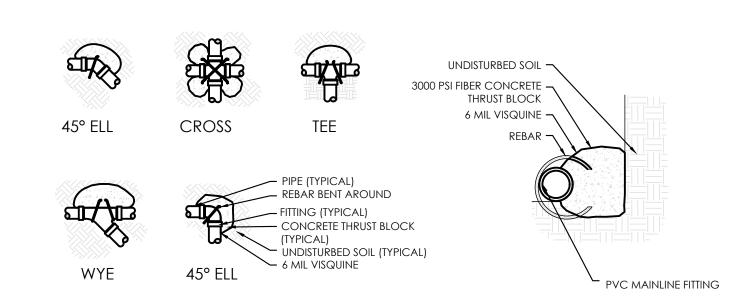
— UNDISTURBED/STABILIZED SOIL

TREE BUBBLER INSTALLATION DETAIL









NOTES:

1. SUPPLY LINES 2.5 INCHES IN DIAMETER AND LARGER SHALL RECEIVE CONCRETE THRUST BLOCKS (OR OTHER APPROVED RESTRAINTS).

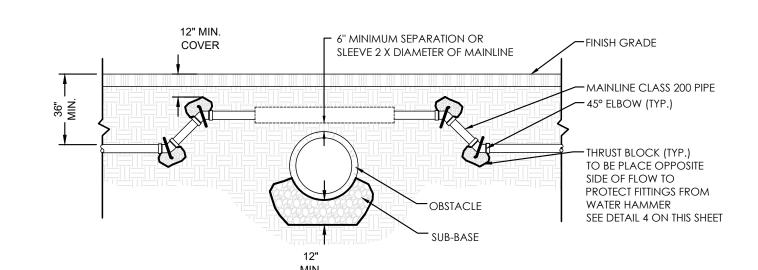
2. ALL CONCRETE TO BE 2800 PSI OR STRONGER.

3. ALL REBAR SHALL BE RUST-FREE.

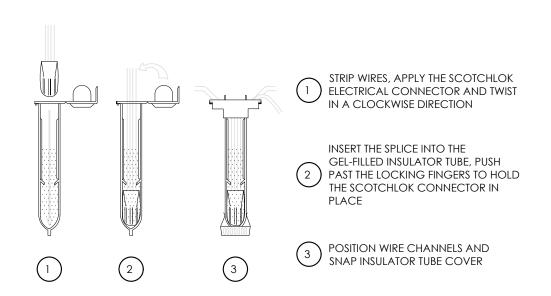
4. FITTINGS TO BE WRAPPED IN VISQUEEN BEFORE POURING THE THRUST BLOCK.

5. CONCRETE IS NOT TO INCASE THE IRRIGATION MAINLINE.

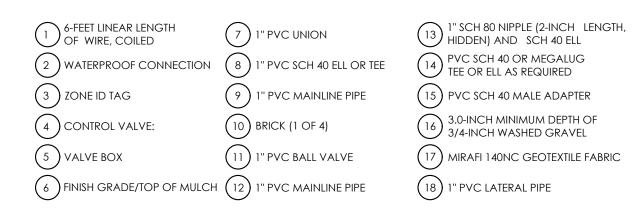
THRUST BLOCK INSTALLATION DETAIL NOT TO SCALE

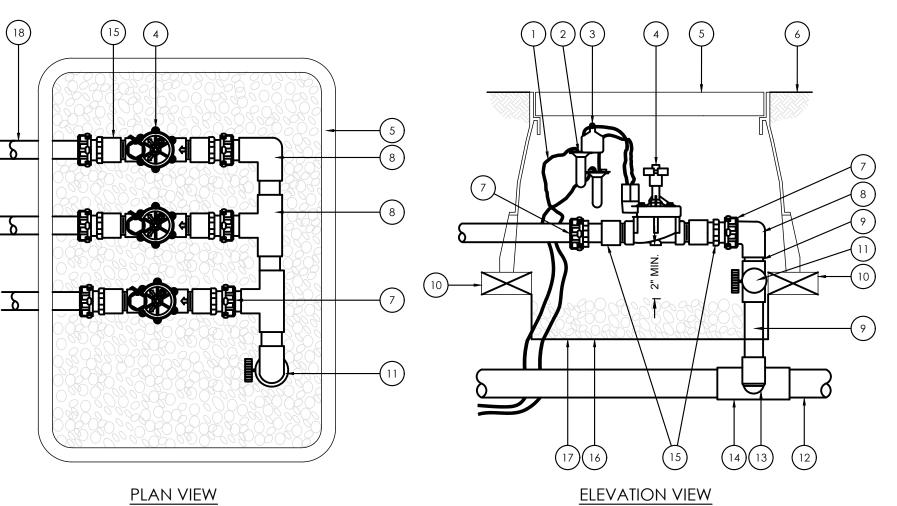


6 MAINLINE/LATERAL OBSTACLE CROSSING DETAIL NOT TO SCALE



7 DBY/DBR DIRECT BURY SPLICE KIT





10 VALVE MANIFOLD INSTALLATION DETAIL

NOT TO SCALE



No 77531

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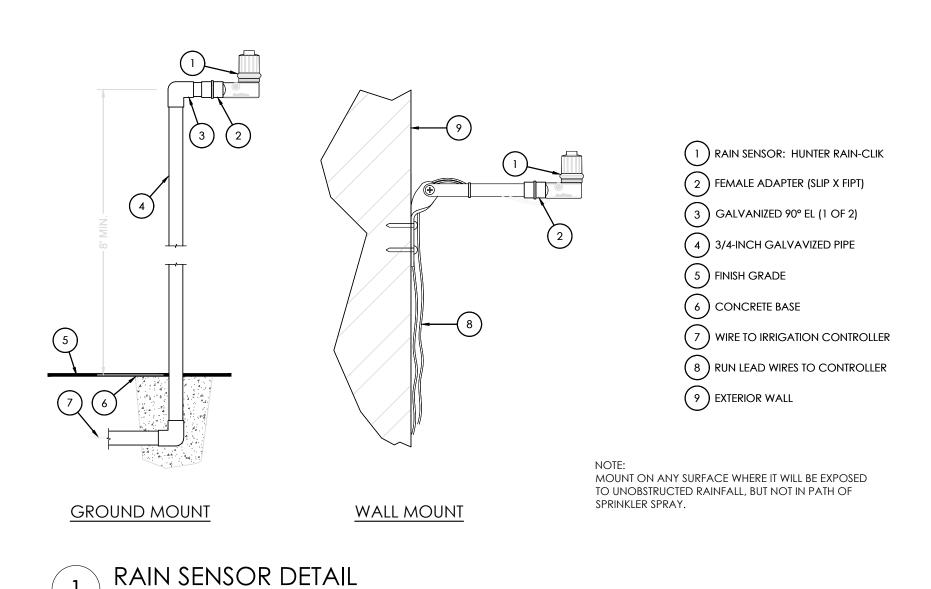
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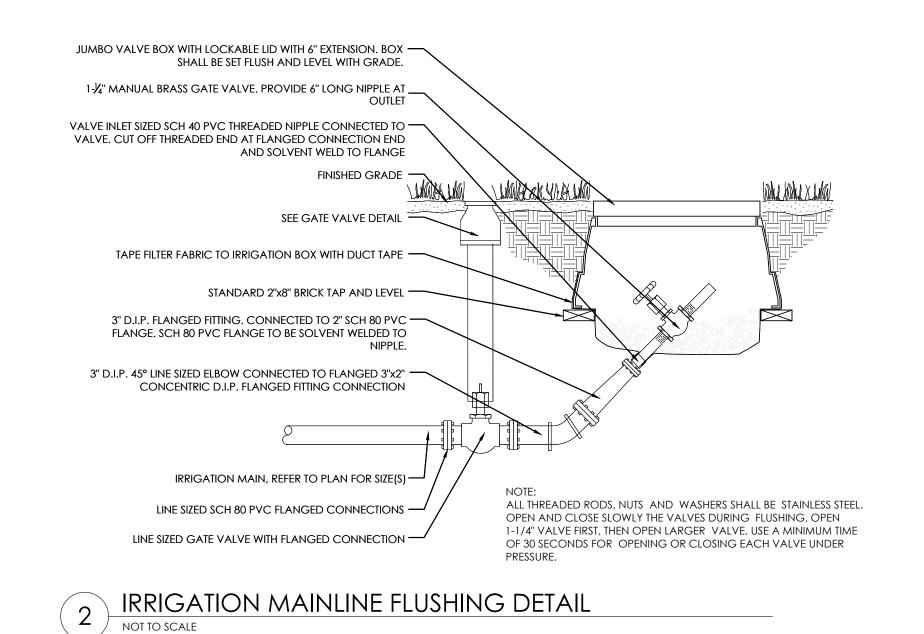
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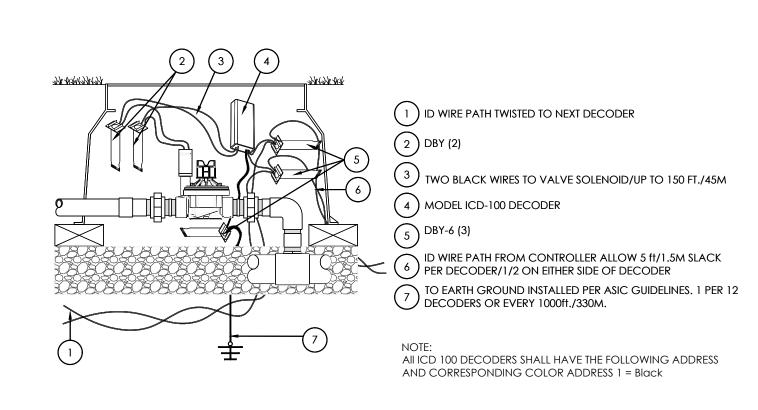
OSQUITO ASTER PLAN

SOUTH WALTON MOSQL
ONTROL DISTRICT MASTEF
774 NORTH COUNTY HIGHWAY 393
SANTA ROSA BEACH
MALTON COUNTY ELORIDA

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#6 AWG SOLID BARE COPPER WIRE

GROUND ROD

(5/8" X 10')

STATE OF

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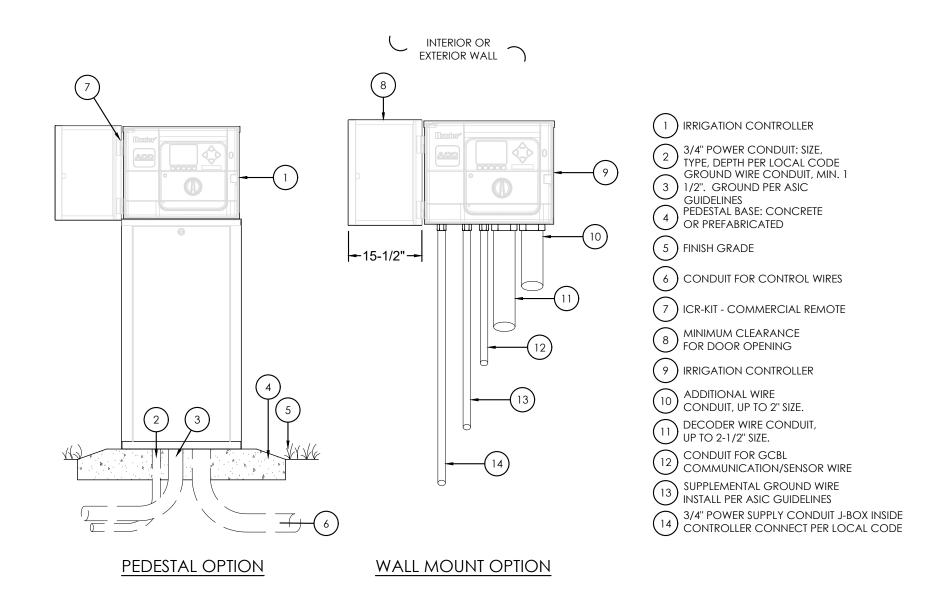
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IRRIGATION

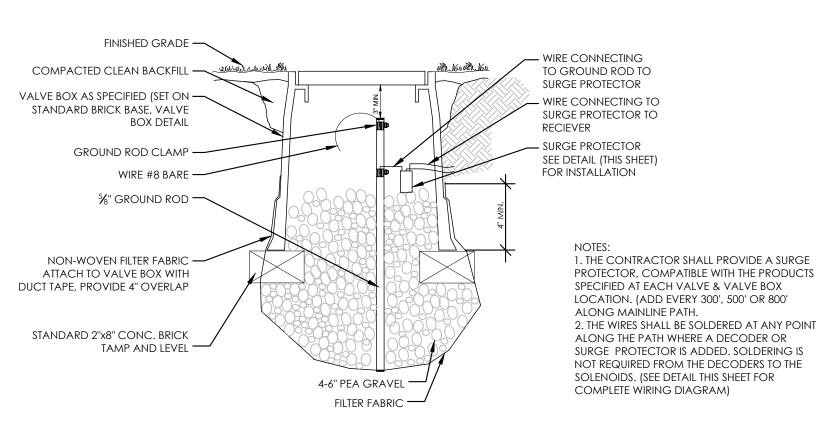
DETAILS

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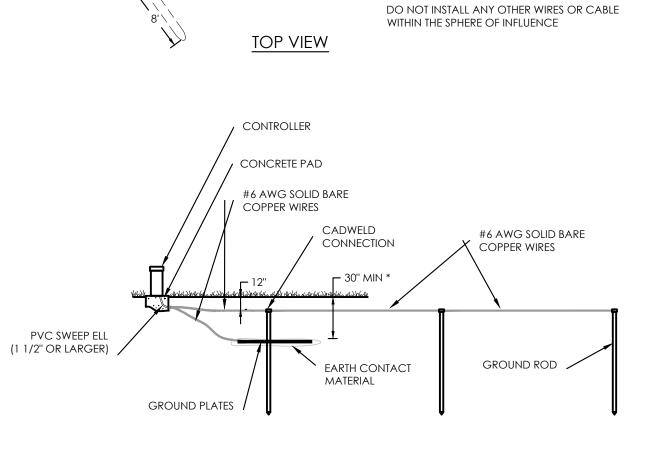
ICD 100 DECODER DETAIL NOT TO SCALE



CONTROLLER INSTALLTION DETAIL

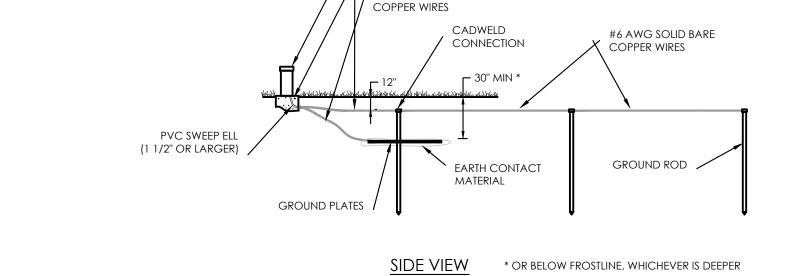


GROUND ROD SURGE PROTECTION DETAIL



CONTROLLER GROUNDING DETAIL

NOT TO SCALE



ELECTRODE SPHERE OF 1 INFLUENCE BOUNDARIES

COPPER GROUND PLATE (4" X 96" X .0625")