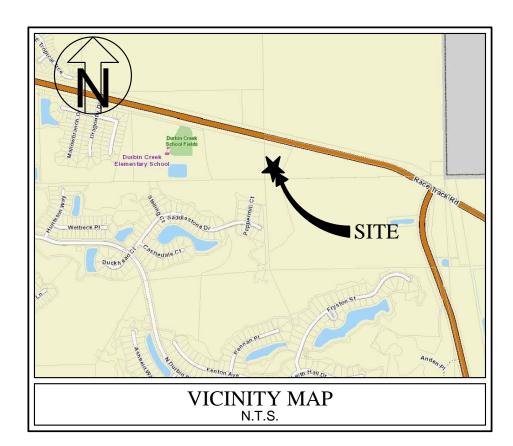
G	ENERAL NOTES:
A.	TOPOGRAPHIC BOUNDARY SURVEY, INCLUDING PROPERTY LINES, LEGAL DESCRIPTION EXISTING UTILITIES, SITE TOPOGRAPHY WITH SPOT ELEVATIONS, OUTSTANDING PHYSICAL FEATURES AND EXISTING STRUCTURE LOCATIONS WAS PROVIDED BY THE FOLLOWING COMPANY, AS CONTRACTORS TO THE ENGINEER:
	BARTRAM TRAIL SURVEYING, INC 1501 COUNTY ROAD 315 SUITE 106 GREEN COVE SPRINGS, FLORIDA 32043 CONTACT: RAYMOND PAUL SUTHERLAND, P.S.M.
	PHONE: (904) 284-2224 MATTHEWS DESIGN GROUP, INC AND ITS ASSOCIATES WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF THE SURVEY OR FOR DESIGN ERRORS OR OMISSIONS RESULTING FROM SURVEY INACCURACIES.
В.	ADDITIONAL PROJECT INFORMATION HAS BEEN PROVIDED BY THE FOLLOWING SUB-CONSULTANT AS CONTRACTOR TO THE OWNER:
	GEOTECHNICAL ELLIS & ASSOCIATES, INC. 7064 DAVIS CREEK ROAD JACKSONVILLE , FLORIDA 32256 CONTACT: JOEY BROUSSARD, P.E. PHONE: (904) 880-0960
	THE GENERAL CONTRACTOR SHALL NOTIFY THE OWNER/ENGINEER OF ANY DISCREPANCIES BETWEEN THE SURVEY AND FIELD VERIFICATION OF INFORMATION ABOVE OR BELOW GROUND THAT MAY BE CRITICAL TO THE DESIGN OF THIS PROJECT. THE GENERAL CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION OF THIS PROJECT.
C.	WARRANTY / DISCLAIMER: THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER THE ENGINEER NOR ITS PERSONNEL CAN OR DO WARRANT THESE DESIGNS OR PLANS AS CONSTRUCTED EXCEPT IN THE SPECIFIC CASES WHERE THE ENGINEER IS INVOLVED WITH THE PHYSICAL CONSTRUCTION ON AN ONGOING BASIS AT THE SITE.
D.	SAFETY NOTICE TO CONTRACTOR: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE CONSTRUCTION SITE.
E.	CONSTRUCTION TESTING:
	CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION, TESTING, LABORATORY ANALYSES, REPORTS, COSTS, ETC., CONCERNING SOILS AND PAVEMENT RELATED DESIGN REQUIREMENTS AND SPECIFICATIONS AS SET FORTH IN THESE PLANS.
F.	AS-BUILT SURVEY NOTE:
	UPON COMPLETION OF CONSTRUCTION, CONTRACTOR IS REQUIRED TO PROVIDE OWNER / ENGINEER WITH A SIGNED AND SEALED AS-BUILT SURVEY AND ANY OTHER RELATED CONSTRUCTION DOCUMENTS, IN ACCORDANCE WITH APPLICABLE PERMITTING AGENCY REQUIREMENTS, AS THE BASIS FOR PROJECT CERTIFICATIONS AND CLOSE-OUT.
G.	RIGHT-OF-WAY:
	ANY AND ALL WORK CONDUCTED WITHIN THE ST. JOHNS COUNTY RIGHT-OF-WAYS MUST BE IN ACCORDANCE WITH THE APPLICABLE LAND DEVELOPMENT CODES.
H.	PRE-CONSTRUCTION MEETING: IT IS THE RESPONSIBILITY OF THE APPLICANT TO SCHEDULE A PRE-CONSTRUCTION / PRE PERMIT ISSUANCE
	MEETING WITH SJC STAFF AFTER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE COUNTY AND PRIOR TO STARTING ANY SITE ACTIVITIES. THE PRE-CONSTRUCTION MEETING WILL BE HELD IN CONJUNCTION WITH THE SJCUD MANDATORY PRE-CONSTRUCTION MEETING. HOWEVER, IF THE PROJECT FALLS OUTSIDE OF SJCUD JURISDICTION, PLEASE CALL CARL COLEE (904-209-0736) AT LEAST 48 HOURS PRIOR TO SCHEDULE MEETING.
	Know what's below.

Call before you dig.

CONSTRUCTION PLANS FOR United Landscapes ST. JOHNS COUNTY, FLORIDA



OWNER

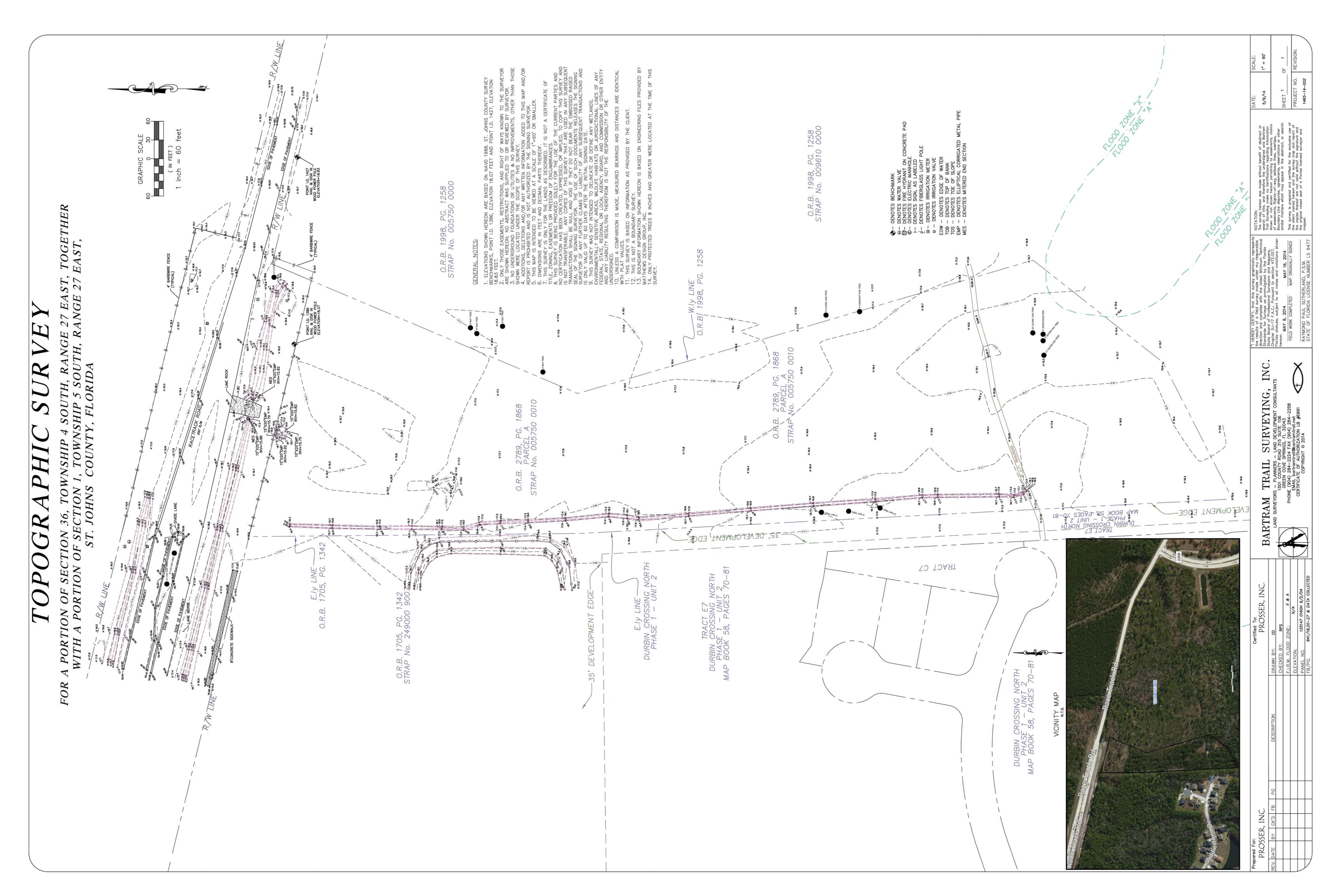
UNITED LANDSCAPES, INC. 6126 US1 NORTH ST. AUGUSTINE, FLORIDA 32095 PHONE: (904) 829-9255 CONTACT: BOB BLANDFORD

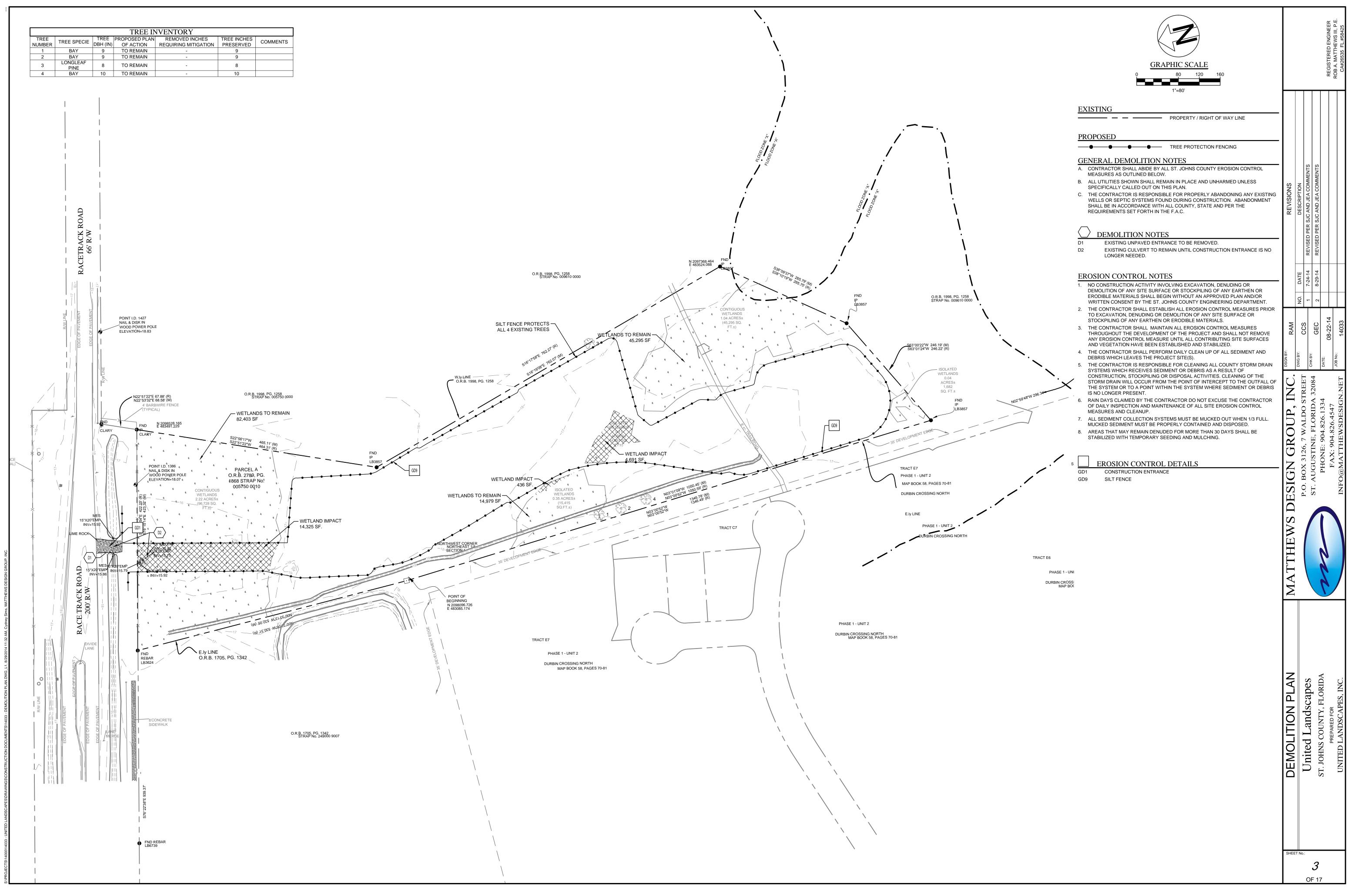


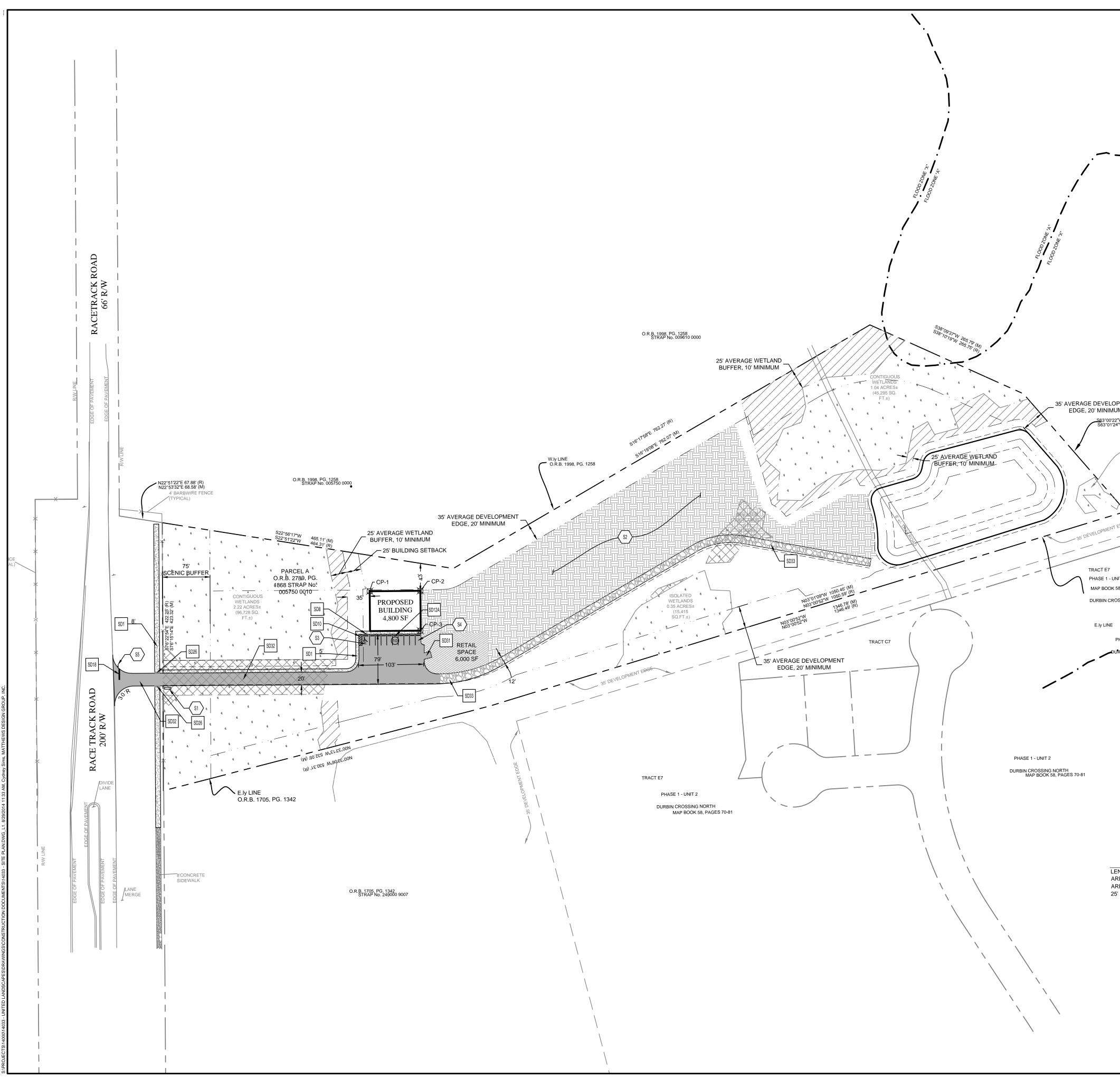
MATTHEWS DESIGN GROUP, INC. P.O. BOX 3126, 7 WALDO STREET ST. AUGUSTINE, FLORIDA 32084 PHONE: (904) 826-1334

PERMITS / APPROVALS SUBMITTED RECEIVED ST. JOHNS COUNTY 06-27-14 ST. JOHNS RIVER WATER MANAGEMENT DISTRICT 06-27-14 06-27-14 JEA

Number SNEET THE 1 2 2 SURVEY 3 DEMOLITION PLAN 4 STEP FLAN 5 STEP FLAN 6 GRADING PLAN 7 GRADING PLAN 8 OPENALTION PLAN 9 LANDSCAPE FLAN 9 LANDSCAPE FLAN 10 SITE PLAN 11 GRADING PLAN 12 JEAG ENFRAL MOTES 13 JEAG ENFRAL MOTES 14 JEAG ENFRAL MOTES 15 JEAG ENFRAL MOTES 16 SWPPP 17 SWPPP CONTRACTOR S CERTIFICATION 18 SUBTER FLORIDA 32200 19 JEAG ENFRAL WATER DETAILS 16 SWPPP 17 SWPPP CONTRACTOR S CERTIFICATION 210 JEA 210 JEA			REGISTERED ENGINEER
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	RESOURCE LIST: ST. JOHNS COUNTY ENGINEERING 2740 INDUSTRY CENTER ROAD ST. AUGUSTINE, FLORIDA 32084 (904) 209-0110 SJRWMD ST. JOHNS RIVER WATER MANAGEMENT DISTRICT - STORM WATER 7775 BAYMEADOWS WAY, SUITE 102 JACKSONVILLE, FLORIDA 32256 (904) 424-3410 ST. JOHNS COUNTY DEVELOPMENT SERVICES 4040 LEWIS SPEEDWAY ST. AUGUSTINE, FLORIDA 32095 (904) 209-0660	21 WEST CHURCH STREET JACKSONVILLE, FLORIDA 32202 (904) 665-8880 <u>FDEP - WATER & SEWER</u> 7825 BAYMEADOWS WAY SUITE B-200 JACKSONVILLE, FLORIDA 32256-7590	ER SH Lands County,







	GRAPHIC SCALE				REGISTERED ENGINEER	ROB A. MATTHEWS III, P.E. CA#26535 FL.#58425
OR B. 1988, PG, 126 STRAP No. 005010 0000 PMENT M WY 246 J2 (R) UDUATED W2 769 / 8 / 9 (M) ACRESS SO, F1.2 W2 769 / 8 / 9 / 00 ACRESS SO, F1.2 ACRESS A	EXISTING PROPERTY / RIGHT OF WAY LINE WETLAND LINE EASEMUTLINE CARDING ROADWAY CENTERLINE CURB & GUTTER WETLAND LINE SAN 8" GRAVITY SEWER FA10" FORCE MAIN SEWER WATEN PROPERTY / RIGHT OF WAY LINE DEAL STATUS PROPERTY / RIGHT OF WAY LINE WATEN WATER MAIN PROPOSED PROPERTY / RIGHT OF WAY LINE UTLITY EASEMENT LINE ROADWAY CENTERLINE LANDSCAPE BUFFER CURB & GUTTER UPLAND BUFFER HATCH UPLAND BUFFER HATCH SEE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS. ALL DIMENSIONS SHOWN ARE TO EDGE OF PAVING UNLESS OTHERWISE SHOWN. CONTRACTOR SHALL REFER TO LANDSCAPE PLAN FOR ALL LANDSCAPING INFORMATION. INCLUDING THER PROPERTION AND NEW PLANTINGS. SEE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS. MAXIMUM BUILDING HEIGHT SHALL NOT EXCEED 33: ALL STOP BARS TO BE FINNHED WITH DIAMOND-GRADE HIGH REFLECTIVITY SURFACE. SUBMITTAL OF AS BUILT SITE SURVEY, INCLUDING BENCHMARKS IS ROUTING TO GOT THE DEVILOPMENT REVIEW MANUAL PROK TO SCHEDULING A FINAL INSPECTION SHALL BE CONTACTED A THE BUILDING BY THE BUILDING DEPARTMENT OR FIRE MARSHILLS ST. JOHNS COUNTY DEVELOPMENT REVIEW NUNDERCORD SHALL BE CONTACTED A THOUSE AND SCOTAN TO ALL REEPROSH	RAM	BET DWGBY: CCS NO. DATE	AUGUSTINE, FLORIDA 32084	3: 904.826.1334 DATE: 200.1 00.2 2 0.2014 DATE: 08-22-14 08-22-14	AX: 904.820.434/ ATTHEWSDESIGN.NET
UPLAND BUFFER CALCULATIONS ENGTH OF WETLAND LINE = 1,205 FT REA OF 25' BUFFER REQUIRED = 30,125 SF REA OF BUFFER PROVIDED = 33,525 SF 5' AVERAGE BUFFER EQUIVALENT PROVIDED	SITE NOTES SITE SIGN - DESIGN BY OTHERS S2 UNPAVED LANDSCAPE STORAGE S3 1-PAVED ADA SPACE (12' X 17.5' W/5' CROSS WALK). S4 9 ASPHALT STANDARD SPACES (9' X 17.5'). S5 36''x36''STOP SIGN STEE DATA 10.63 AC TOTAL SITE 10.63 AC PROPOSED BUILDING TOTAL 4,800 SF PROPOSED BUILDING - WAREHOUSE 3,800 SF PROPOSED BUILDING - COMMERCIAL/BUSINESS 1,000 SF PROPOSED BUILDING - COMMERCIAL/BUSINESS 1,000 SF PROPOSED BUILDING SETBACKS 25F/10R/10S MAXIMUM BUILDING SETBACKS 25F/10R/10S MAXIMUM BUILDING SETBACKS 2,541 SF TOTAL PERVIOUS 7,341 SF TOTAL PERVIOUS 7,341 SF TOTAL PERVIOUS 455,897 SF OPEN SPACE 98% % BUILDING COVERAGE 1% % IMPERVIOUS AREA 2% FLOOR AREA 4,800 SF FLOOR AREA 4,800 SF FLOOR AREA 4,800 SF FLOOR AREA 2% PROPOSED BUILDING	NALE PLAN	►	I Lands	ST. JOHNS COUNTY, FLORIDA	UNITED LANDSCAPES, INC.
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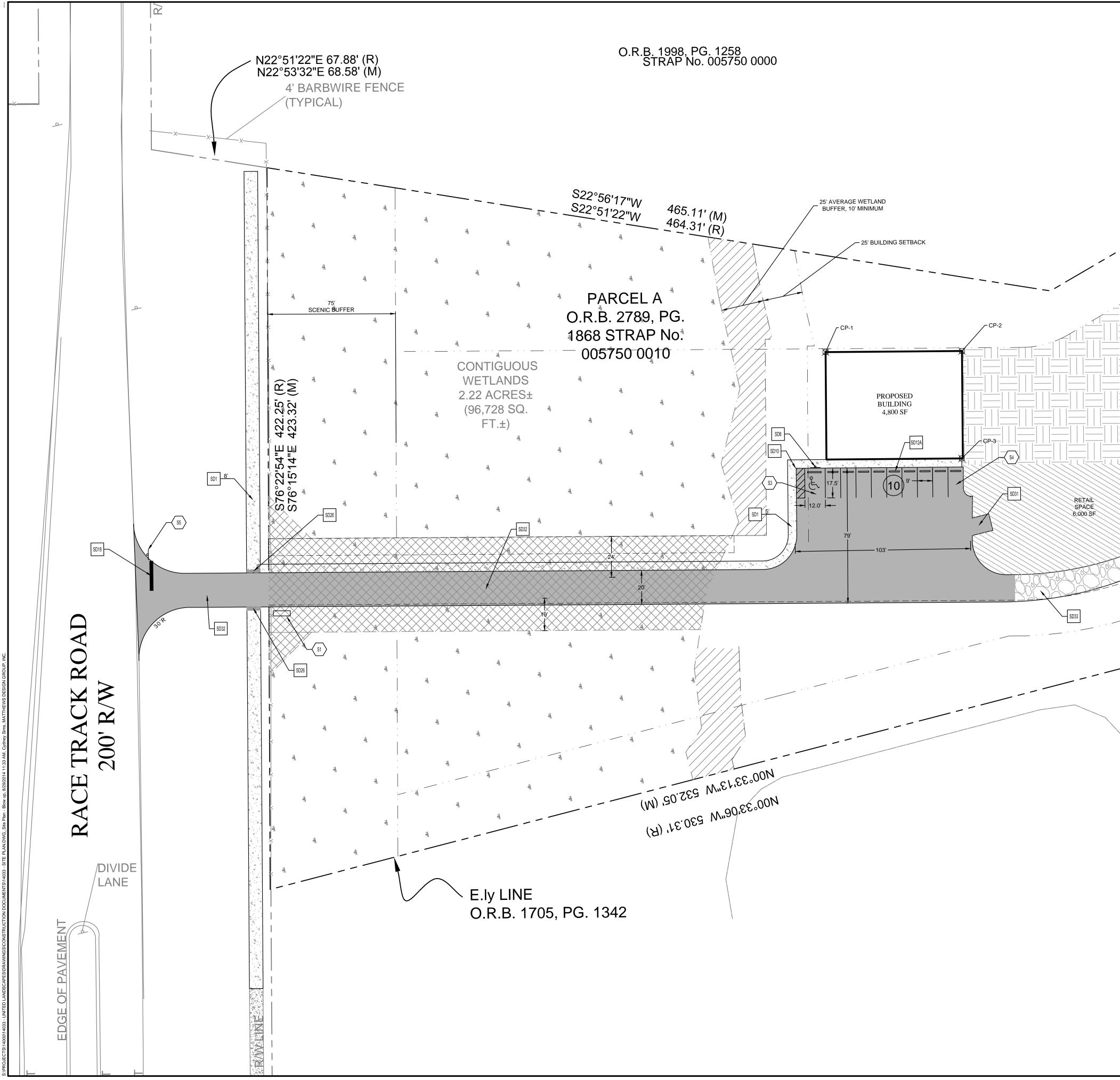
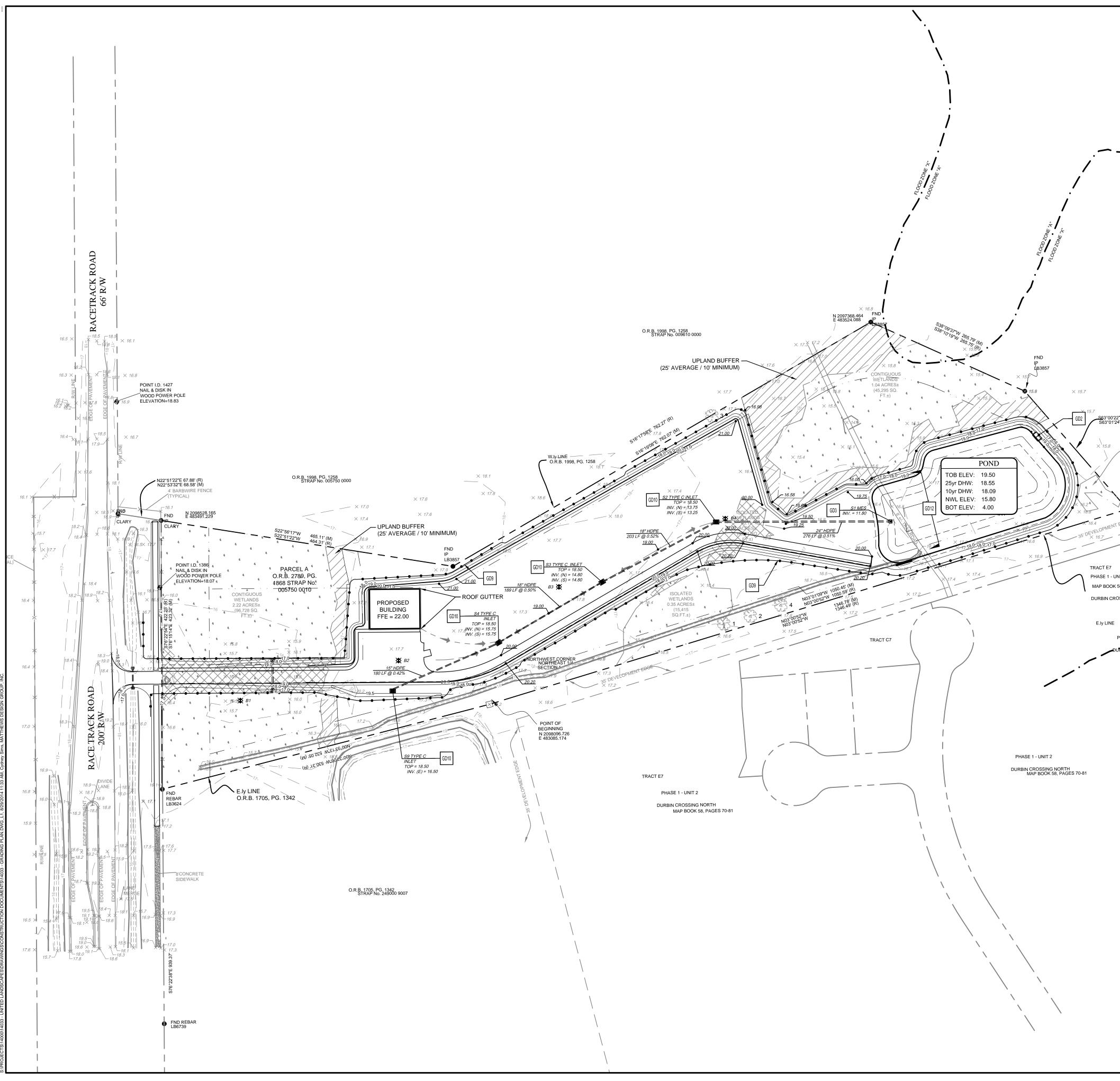
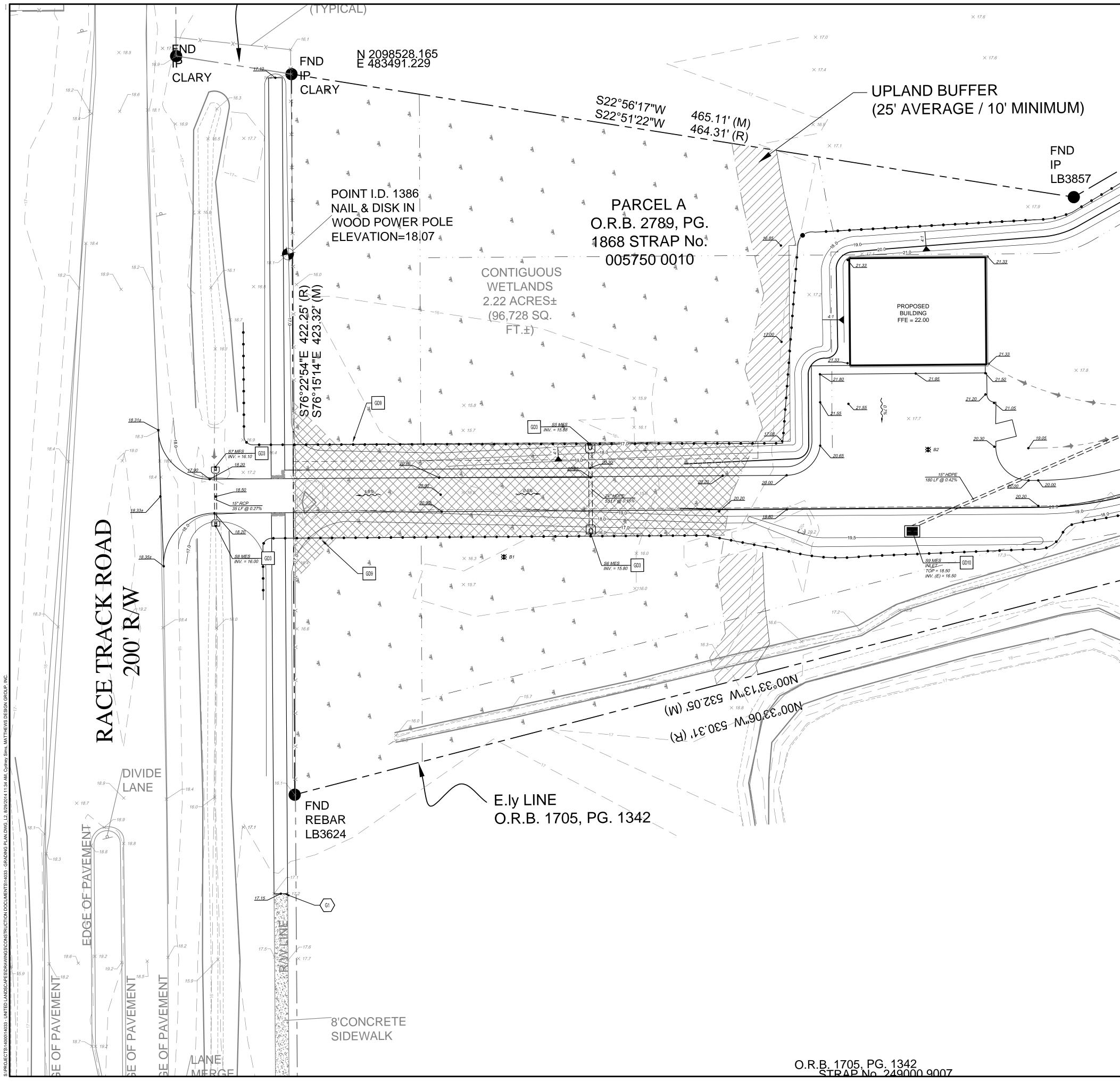


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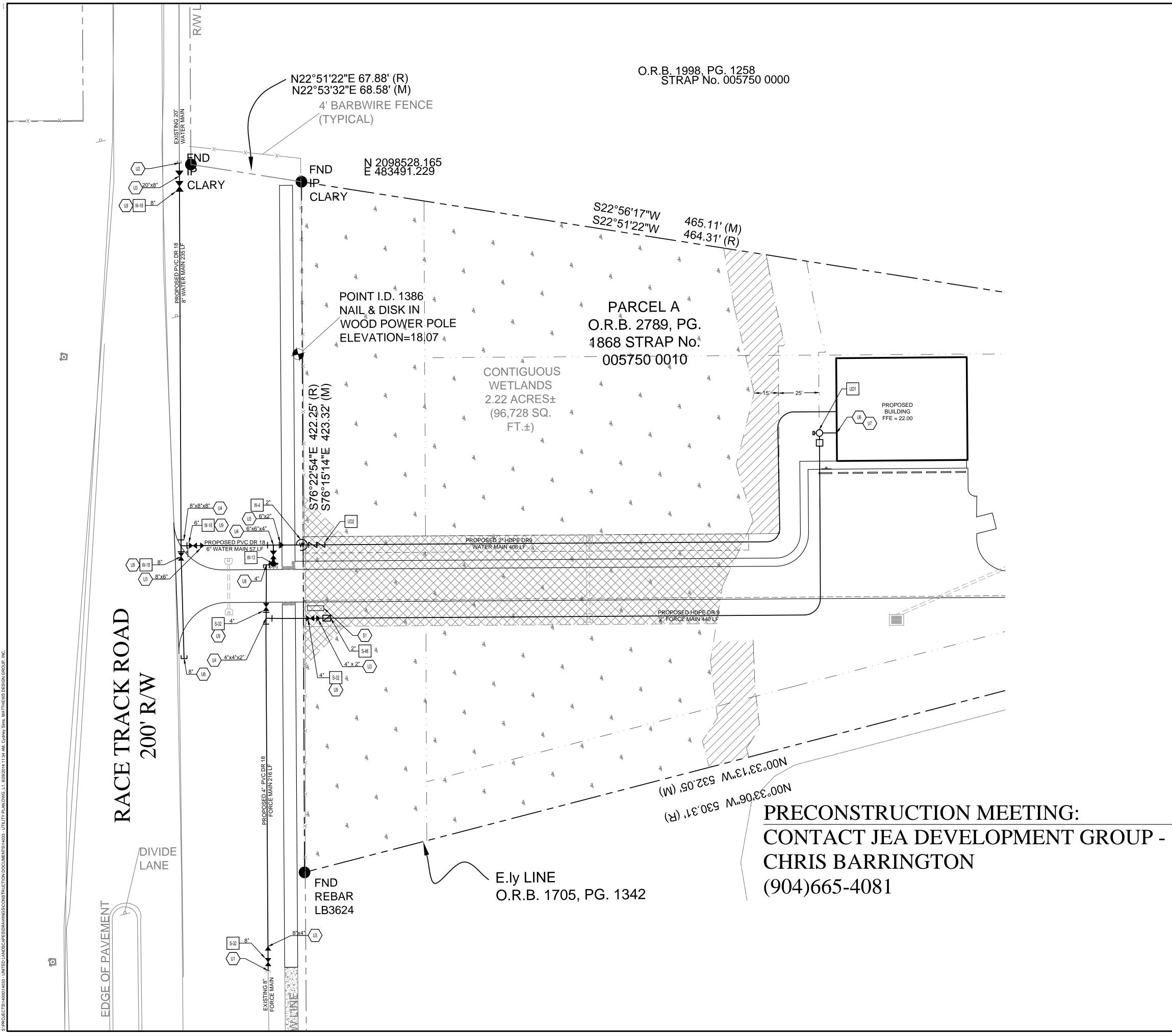


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	GRA	PHIC SCALE		REGISTERED ENGINEER ROB A. MATTHEWS III, P.E. CA#26535 FL.#58425

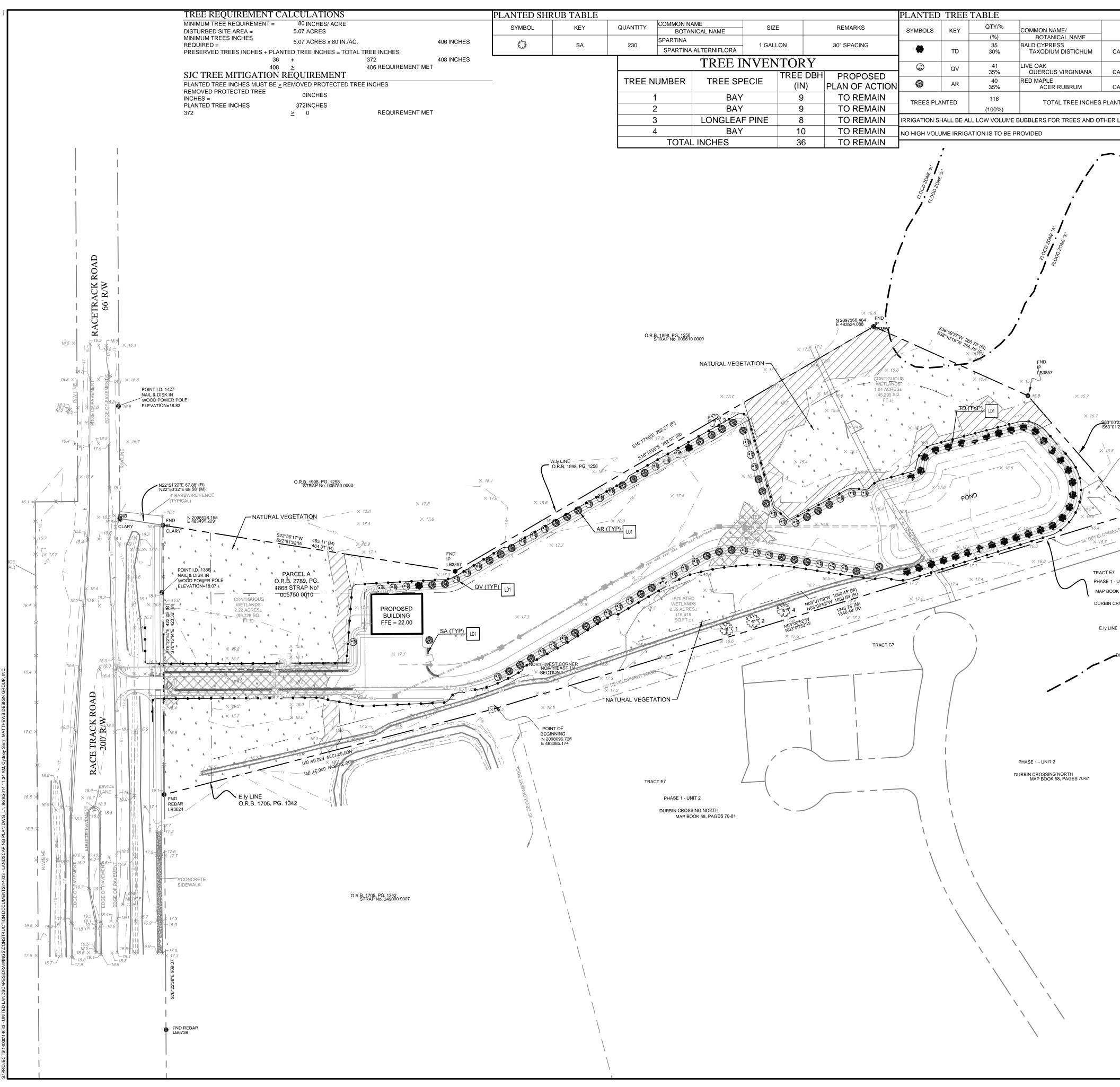


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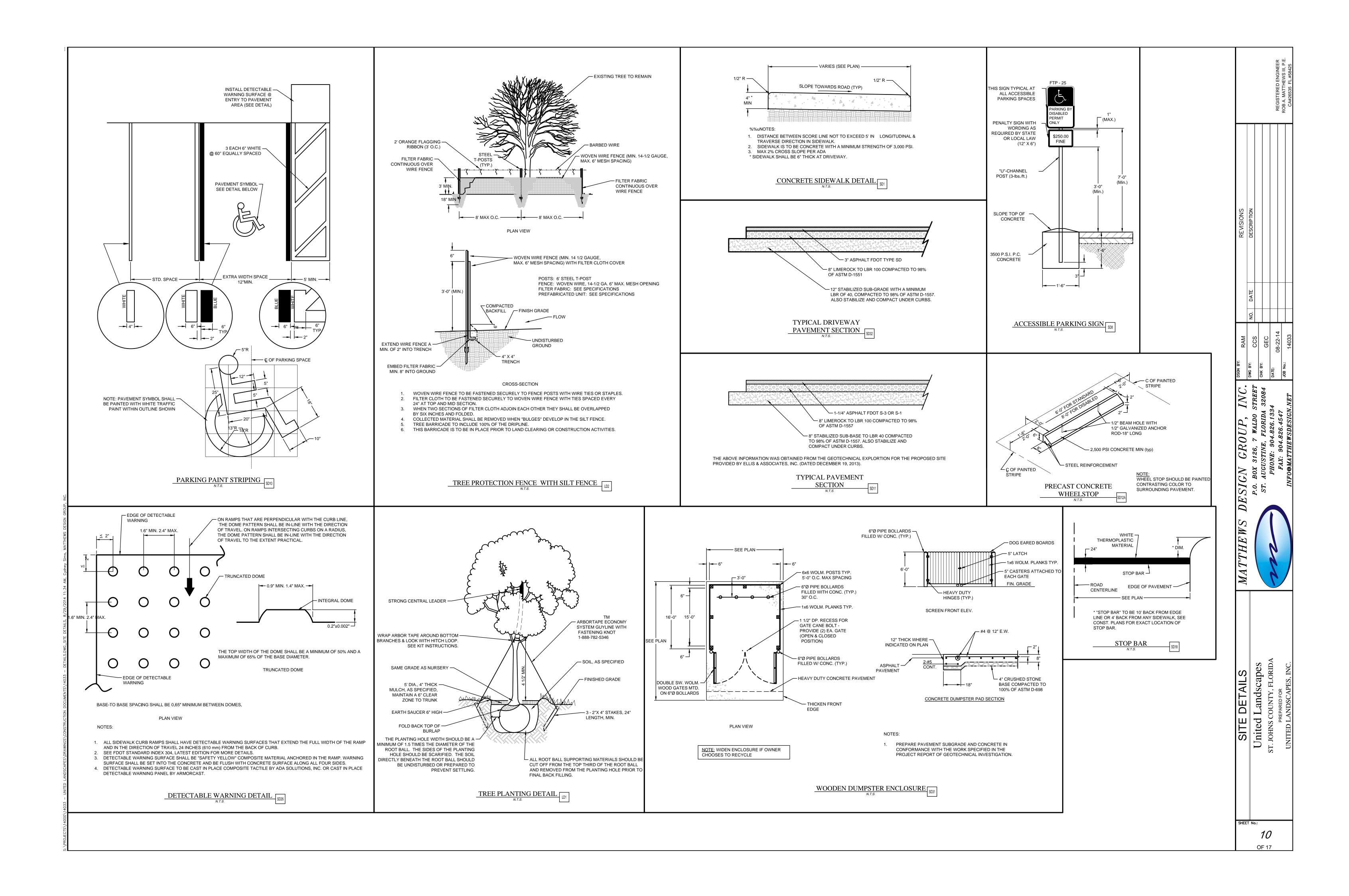
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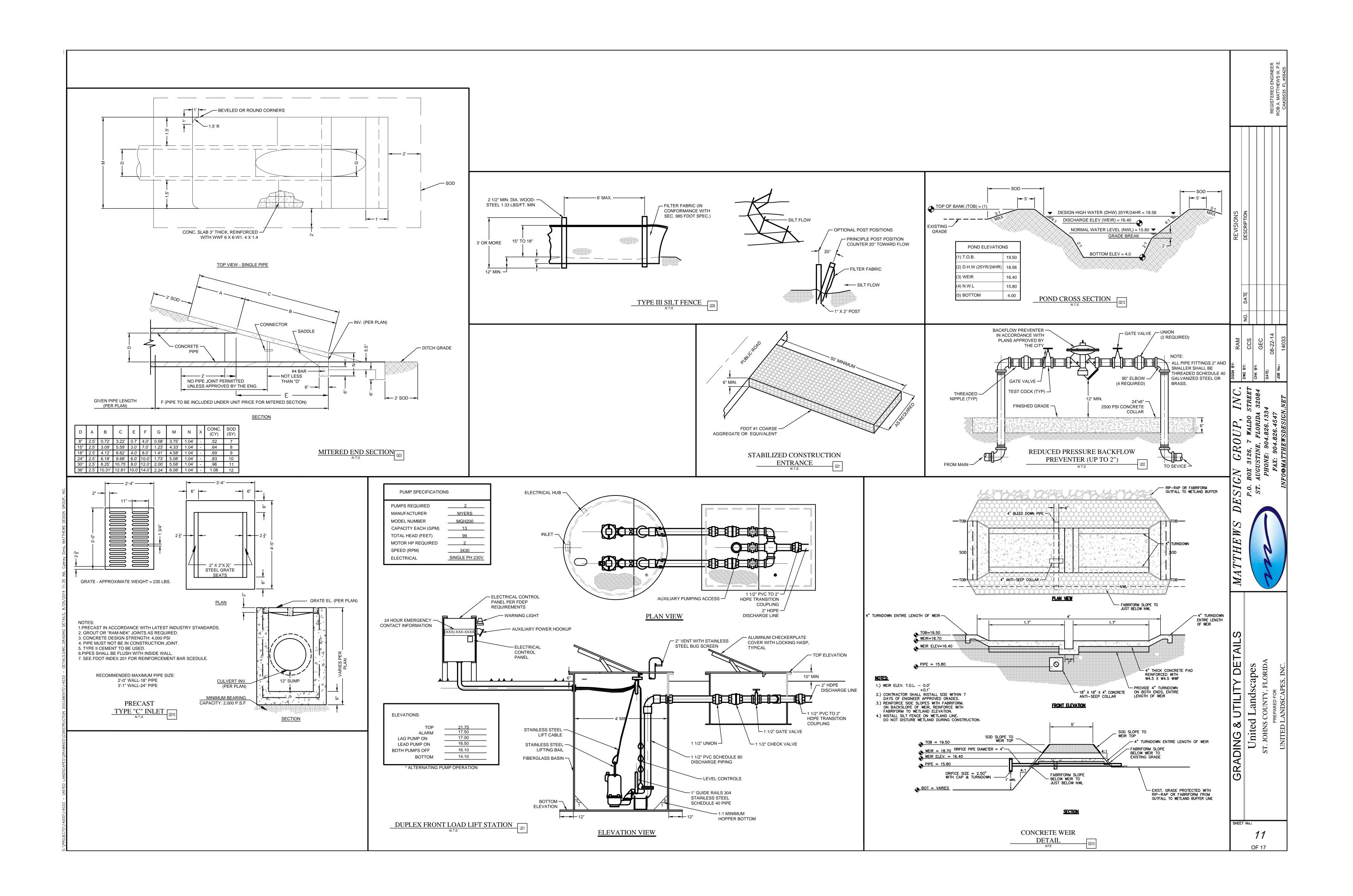


GRA 0	PHIC SCALE 30 45 60				REGISTERED ENGINEER	ROB A. MATTHEWS III, P.E.
UTILITY NOTES.		REVISIONS	NO. DATE DESCRIPTION 1 7-24-14 REVISED PER SIC AND LEA COMMENTS	8-29-14 REVISED PER		
"BLUE". C. ALL WATER LINE 4" THROUGH 12" "BLUE" WITH PUSH-ON GASKETED "BLUE", OR D.I.P. CLASS 350.	DIAMETER SHALL BE PVC C-900, DR-18, COLOR D JOINTS, OR PVC C-906 HDPE DR 11, COLOR	RAM	z CCS	GEC	4	 - -
 D. ALL WATER MAINS 16" THROUGH COLOR "BLUE" WITH PUSH-ON GA COLOR "BLUE", OR D.I.P. CLASS 24 E. ALL PIPE WATER MAINS SMALLER THA COVER SHALL BE 30 INCHES AND OR AS REQUIRED WITHIN FDOT O MAINS GREATER THAN12 INCHES 42 INCHES AND 54 INCHES, RESPI CONFLICTS. G. SANITARY SEWER LINE TO DEPTH CONFORMING TO ASTM D-3034, C DEPTHS 10' TO 15' SHALL BE SDR- BE GREEN AND CLEARLY MARKET H. SANITARY SEWER FORCE MAIN 4' CONFORMING TO ASTM D-1784, D ONLY BE USED WITH PRIOR APPR SHALL BE GREEN AN D CLEARLY I I. ALL SANITARY SEWER PIPE BEDD J. ALL FITTINGS SHALL BE RESTRAIL JOINT TABLE, DETAIL W-11. K. CONTRACTOR SHALL COORDINAT SERVICES WITH ADJACENT PROP L. CONSTRUCTION SHALL NOT STAF WRITTEN APPROVAL HAS BEEN R AUTHORITY. M. ALL GATE VALVES SHALL MEET A 250 PSI MINIMUM WORKING PRES N. IN THE ARES WHERE SOLVENT CC SHALL BE STOPPED AND THE PRO REVISED CONSTRUCTION PLAN SF COMPLIES WITH ALL REGULATORY FOR THE JEA WATER MAIN SYSTEL INVOLVE GALVANIZED OR DUCTILE (FLUOROCARBON TYPE) GASKETS CONTAMINATED AREAS. O. THE CONTRACTOR SHALL CONTAG SCHEDULE A "PRE-CONSTRUCTION 	ARGER DIAMETER SHALL BE DUCTILE IRON PIPE. IN 12 INCHES, THE MINIMUM AND MAXIMUM 236 INCHES, RESPECTIVELY, IN PAVED AREAS, IR RAILROAD RIGHTS-OF-WAY. FOR WATER , THE MINIMUM AND MAXIMUM COVER SHALL BE ECTIVELY. EXCEPTIONS WILL BE MADE FOR 4S OF 10' SHALL BE SDR-35 PVC PIPE OLORED GREEN. SANITARY SEWER LINE OF 26 PVC PIPE. ALL SANITARY SEWER LINES SHALL 0 ON THE PIPE. AND LARGER SHALL BE PVC C-900, DR-18, -1785, AND D-2241. DUCTILE IRON PIPE SHALL 20 VAL BY SJCUD. SANITARY SEWER FORCE MAIN MARKED ON THE PIPE. DING SHALL BE INSTALLED PER DETAIL W-13. NED IN ACCORDANCE WITH THE RESTRAINED TE ANY DISRUPTIONS TO EXISTING UTILITY TERTY OWNERS AND JEA. RT ON ANY PUBLIC UTILITY SYSTEM UNTIL LECEIVED BY THE APPROPRIATE GOVERNING WWA C509 STANDARDS AND BE DESIGNED FOR SURE. INTAMINATION IS FOUND IN THE TRENCH, WORK DPER REGULATORY AUTHORITIES NOTIFIED. A HALL BE APPROVED BY JEA AND FDEP WHICH Y RULES. THE REVISED CONSTRUCTION PLAN MINCLUDING WATER SERVICE LINES MAY E IRON PIPE WITH SPECIAL SOLVENT RESISTANT S WHICH EXTEND 100 FEET BEYOND THE CT CHRIS BARRINGTON - (904)665-5081 AND N MEETING" 48 HOURS PRIOR TO INITIATING THE VORK, INCLUDING ALL UTILITY MAIN TAPS BY THE CT CHRIS BARRINGTON - (904)665-5081 AND N MEETING" 48 HOURS PRIOR TO INITIATING THE VORK, INCLUDING ALL UTILITY MAIN TAPS BY THE CT CHRIS BARRINGTON - (904)665-5081 AND N MEETING" 48 HOURS PRIOR TO INITIATING THE VORK, INCLUDING ALL UTILITY MAIN TAPS BY THE CKFLOW PREVENTER SSEMBLY //ER	MATTHEWS DESIGN GROUP. INC. RA	3126, 7 WALDO STREET	.32084 CHK BY:	34 DATE:	FAX: 904.826.4547
UTILITY NOTES S1 SITE SIGN - DESIGN BY OT U1 POINT OF CONNECTION - F MAIN V2 U2 POINT OF CONNECTION - F MAIN V3 U3 D.I. M.J. REDUCER - SEE CALL OU U4 D.I.M.J. TEE - SEE CALL OU U5 D.I. M.J. BEND - SEE CALL OU U6 POINT OF CONNECTION - E COVER COVER	HERS REMOVE EXISTING CAP AND EXTEND 8" FORCE REMOVE EXISTING CAP AND EXTEND 12" WATER ALL OUT FOR SIZE. IT FOR SIZE. DUT FOR SIZE AND BEND ANGLE. DETAILS IN PLUMBING PLAN UNDER SEPARATE ERVICE AT 2.08% INVERT AT L/S = 18.00 SIZE	UTILITY PLAN	I Inited I and coanes	Ĵ,	ST. JOHNS COUNTY, FLORIDA	PREPARED FOR
		SHEE	T No.:	8 DF 1		



SIZE TO 6" CAL (MIN.) 2" CAL (MIN.) 2" CAL (MIN.) NTED	TAL INCHES 210" 82" 80" 372"	ROOT B&B B&B B&B	REMARKS BRANCHED 8'-10' HT. BRANCHED 8'-10' HT. BRANCHED 8'-10' HT.	GRAPHIC SCALE				REGISTERED ENGINEER ROB A. MATTHEWS III, P.E.	CA#26535 FL.#58425
LANDSCAPED ARI				EXISTING PROPERTY / RIGHT OF WAY LINE PROPOSED SILT FENCE LANDSCAPE NOTES A. LOCATE ALL UTILITIES AND SITE LIGHTING CONDUITS BEFORE LANDSCAPE CONSTRUCTION BEGINS. B. NOTIFY LANDSCAPE ARCHITECT OR DESIGNATED REPRESENTATIVE OF ANY LAYOUT DISCREPANCIES PRIOR TO ANY PLANTING. C. FERTILIZE ALL PLANTS AT THE TIME OF PLANTING WITH TIME RELEASE FERTILIZER. D. PLANT MATERIAL SHALL CONFORM TO THE STANDARDS FOR RADE #1 OR BETTER AS GIVEN IN THE LATEST "GRADES AND STANDARDS FOR NURSERY PLANTS, PARTS I AND IP, FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES OR TO THE STANDARDS AS GIVEN IN THE LATEST "AMERICAN STANDARD FOR NURSERY STOCK", AMERICAN NATIONAL STANDARDS INSTITUTE. E. REMOVE ALL DEAD WOOD AND PRUNE TREES ACCORDING TO THE PRUNING GUIDELINES BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE, 1995 EDITION. IF ARBORIST BELIEVES A LIMB SHOULD NOT BE REMOVED ALL DEBRIS FROM THE SITE TO AN APPROVED OFF-SITE LOCATION. FOLLOW THE "AMERICAN NATIONAL STANDARDS FOR TREE CARE OPERATIONS" AND ANSI 2133.1 GUIDELINES. F. TREES SHALL HAVE A MINIMUM HEIGHTS OF (8) EIGHT TO (10) TEN FEET AND (2) TWO INCHES OF CALIPER G. ALL DISTRIBUTED AREAS MUST BE STABILIZED BY MEANS OF MULCH, SEEDING, OR SOD AS CALLED OUT ON THIS PLAN. IF DISTURBED AREA IS OUTSIDE OF THE LIMITS OF THIS PLAN, AREAS MUST BE STABILIZED WITH EXISTING MATERIAL OR BETTER: I.e. SEEDING OR SODDING. H. VEGETATION THAT EXCEEDS TWENTY-FIVE (25) FEET IN HEIGHT AT MATURITY SHOULD NOT BE PLANTED CLOSER THAN TEN (10) FEET OT THE VERTICAL PLANE OF AN EXISTING POWER LIME, EXCLUDING SERVICE WIRES.		CCS DATE DESCRIPTION CCS 1 7-24-14 REVISED PER SJC AND JEA COMMENTS	REVISED PER	80	14033
UNIT 2 UNIT 2 WETLANDS 0.04 ACRES± 1,682 SQ. FT.± FN P 16.7 16.7 16.7 NT EBEE × 17 ACRES± 1,682 SQ. FT.± FN P LBS TE FN FN FN FN FN FN FN FN FN FN	D 3857	N02°59'48	~W 296.34	 THE TOP 1/3 OF THE ROOT BALL. J. TREES SHALL NOT BE PLANTED CLOSER THAN TEN (10) FEET FROM OTHER TREES UNLESS APPROVED BY THE COUNTY ADMINISTRATOR. CANOPY TREES SHOULD BE SPACED A MINIMUM OF 20' TO 30'. K. A MULCH RING FOR ALL NEWLY PLANTED TREES SHALL BE PROVIDED AT LEAST FIVE (5) FEET IN DIAMETER AND NOT CLOSER THAN SIX (6) INCHES FROM THE TREE TRUNK. L. MULCH SHALL BE PROVIDED A MINIMUM OF FOUR (4) INCHES OF DEPTH AROUND ALL NEWLY PLANTED LANDSCAPING. M. SHRUB LINES ARE TO BE PLANTED AT THE REQUIRED MINIMUM HEIGHT, NOT BY A CONTAINER SIZE, N. SOIL IN TREE ISLANDS SHALL HAVE AT LEAST 12" OF SUITABLE SOIL FOR TREE PLANTINGS, AND BE VOID OF ANY CONSTRUCTION DEBRIS OR UNSUITABLE MATERIAL. O. IRRIGATION SHALL BE PROVIDED WITH AN AUTOMATIC IRRIGATION SYSTEM, UNLESS APPROVED ALTERNATE MEANS OF PLANTED MATERIAL IS APPROVED, ALL TREES SHALL BE IRRIGATED BY BUBBLER TYPE EMITTERS. P. TREES SHALL NOT BE PLANTED CLOSER THAN 7.5'FROM THE CENTERLINE OF UNDERGROUND UTILITIES. 	DESIGN GROUP, INC.	O. BOX 3126, 7 WALDO STREET	ST. AUGUSTINE, FLORIDA 32084	AX: 904.826.4547	INFO@MATTHEWSDESIGN.NET
E PHASE 1 - UNIT 2 OURBIN CROSSING NO	RTH		TRACT E6 PHASE 1 - UNI DURBIN CROSSI MAP BOC	2. THE CONTRACTOR SHALL NOT ESTABLISH ALL EROSION CONTROL MEASURES PRIOR TO EXCAVATION, DENUDING OR DEMOLITION OF ANY SITE SURFACE OR	LANDSCAPE PLAN MATTHEWS	United Landscapes	COUNTY	REPARED FOR	UNITED LANDSCAPES, INC.
					SHEET		9 DF 17		





PROJECTS\14000\14033 - UNITED LANDSCAPES\DRAWINGS\CONSTRUCTION DOCUMENTS\14033 - DETAILS.DWG_JEA GENERAL NOTES, 8/29/2014 11:35 AM, Cydney Sims, MATTHEWS DESIGN GROUP, INC.

- UTILITY CONSTRUCTION NOTES:
- 1. ALL WATER, RECLAIMED WATER AND SANITARY SEWER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST JEA WATER AND SEWER STANDARDS MANUAL, ALL APPLICABLE LOCAL AND STATE REGULATORY RULES & REGULATIONS AND OTHER APPLICABLE JEA RULES.
- 2. ALL WATER, RECLAIMED WATER AND SANITARY SEWER CONSTRUCTION SHALL BE PROVIDED BY A CONTRACTOR QUALIFIED AS REQUIRED UNDER THE CURRENT FLORIDA STATUTE OR BY AN UNDERGROUND UTILITY CONTRACTOR, LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CITY OR COUNTY RIGHT-OF-WAY PERMITS FOR WORK IN THE CITY R/W, COUNTY R/W OR A FDOT PERMIT FOR WORK IN THE FDOT R/W.
- 4. THE CONTRACTOR SHALL CONTACT THE JEA FIELD INSPECTOR AND SCHEDULE A "PRE-CONSTRUCTION MEETING" 48 HOURS PRIOR TO INITIATING THE JEA WATER AND SEWER UTILITY WORK, INCLUDING ALL UTILITY MAIN TAPS BY THE CONSTRUCTOR.
- 5. JEA WATER AND SEWER TAP FEES, JEA WATER AND SEWER CAPACITY FEES AND JEA METER FEES SHALL BE PAID PRIOR TO THE WATER METER INSTALLATION. CONTACT THE JEA SERVICE COUNTER AT 665-5260 (JEA.COM) FOR ADDITIONAL INFORMATION. WATER METERS WILL NOT BE INSTALLED PRIOR TO THE ISSUANCE OF A REGULATORY CLEARANCE LETTER (COC) FOR THE WATER AND SEWER IMPROVEMENTS, COMPLETION AND APPROVAL OF FINAL INSPECTION AND APPROVED AS-BUILT DRAWINGS.
- 6. FINAL CONNECTION TO THE JEA SYSTEM MAY BE CONTINGENT UPON THE CONSTRUCTION, DEDICATION AND FINAL ACCEPTANCE (TRANSFER OF OWNERSHIP/MAINTENANCE) OF THE JEA OFF-STIE UTILITIES.
- 7. THE MINIMUM HORIZONTAL AND VERTICAL SEPARATION REQUIREMENTS FOR THE WATER, RECLAIMED WATER AND SEWER IMPROVEMENTS SHALL CONFORM TO THE LATEST JEA AND FDEP RULES. THE MINIMUM HORIZONTAL SEPARATION REQUIREMENTS BETWEEN THE PROPOSED WATER AND SEWER UTILITIES AND PONDS OR STRUCTURES SHALL CONFORM TO THE LATEST JEA WATER AND SEWER STANDARDS MANUAL.
- 8. WATER AND SEWER PIPES SHALL BE CONSTRUCTED WITH A MINIMUM 30" COVER IN PAVED AREAS. THE MAXIMUM COVER FOR UTILITIES UTILIZING HORIZONTAL DIRECTIONAL DRILL METHODS SHALL COMPLY WITH THE LATEST JEA WATER AND SEWER STANDARDS MANUAL.
- 9. WATER AND SEWER PRESSURE MAINS AND SERVICES SHALL PASS A JEA PRESSURE AND LEAKAGE TEST AT 150 PSI FOR 2 HOURS. IN ADDITION, WATER MAINS SHALL BE DISINFECTED AND PASS A BACTERIOLOGICAL ANALYSIS. ALL TESTS SHALL CONFORM TO JEA AND DEP RULES AND REGULATIONS AND AWWA C-651. THE JEA INSPECTOR SHALL BE NOTIFIED 48 HOURS (MIN) PRIOR TO PERFORMING THESE TESTS. NO FINAL CONNECTION(S) TO EXISTING POTABLE WATER MAINS SHALL BE MADE UNTIL THE NEW MAIN IS PRESSURE TESTED, DISINFECTED, AND CLEARED FOR SERVICE.
- 10. IN THE ARES WHERE SOLVENT CONTAMINATION IS FOUND IN THE TRENCH, WORK SHALL BE STOPPED AND THE PROPER REGULATORY AUTHORITIES NOTIFIED. A REVISED CONSTRUCTION PLAN SHALL BE APPROVED BY JEA AND FDEP WHICH COMPLIES WITH ALL REGULATORY RULES. THE REVISED CONSTRUCTION PLAN FOR THE JEA WATER MAIN SYSTEM INCLUDING WATER SERVICE LINES MAY INVOLVE GALVANIZED OR DUCTILE IRON PIPE WITH SPECIAL SOLVENT RESISTANT (FLUOROCARBON TYPE) GASKETS WHICH EXTEND 100 FEET BEYOND THE CONTAMINATED AREAS.
- 11. THE CONTRACTOR SHALL MINIMIZE SERVICE INTERRUPTIONS TO EXISTING JEA WATER AND SEWER CUSTOMERS. IF JEA APPROVES A SERVICE INTERRUPTION, THEN THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING THE AFFECTED CUSTOMERS IN ACCORDANCE WITH THE LATEST JEA RULES.
- 12. RESIDENTIAL SERVICES USING RECLAIMED WATER FOR IRRIGATION MUST HAVE A JEA APPROVED BACKFLOW PREVENTER INSTALLED ON EACH POTABLE WATER SERVICE PRIOR TO THE INSTALLATION OF A JEA RECLAIMED WATER METER. THE INSTALLATION OF A BACKFLOW PREVENTER SHALL BE IN ACCORDANCE WITH THE JEA RULES AND REGULATIONS FOR WATER, SEWER, AND RECLAIMED WATER SERVICES, APPENDIX B, CROSS CONNECTION CONTROL POLICY.
- 13. FOR DEVELOPMENTS UTILIZING RECLAIMED WATER, A JEA APPROVED RECLAIMED WATER SIGNAGE PLAN SHALL BE IMPLEMENTED PRIOR TO THE INSTALLATION OF THE RECLAIMED WATER METERS.

SURVEY AND LOCATE DATA: 1. ALL ELEVATIONS ARE BASED ON U.S.C.&G.S. DATUM AND SHO

- 2. ELEVATIONS ARE BASED ON N.G.V.D. 1929.
- 3. LOCATION OF EXISTING UTILITIES OBTAINED BY SOFT DIG LOC SHOWN ON PLANS, OR INCLUDED WITH BID SPECS.
- EXISTING WATER AND SEWER LINES ARE SHOWN AS PER FIEL SUBDIVISION AS-BUILT PLANS.
- 5. UNDERGROUND UTILITIES WERE LOCATED UTILIZING GROUND RADAR (GPR) AND A DIGITAL LOCATOR. CONTRACTOR SHALL SOME CASES UTILITIES HAVE BEEN LOCATED, AND SURVEY H ONLY ON ONE SIDE OF THE ROAD.
- 6. ALL PIPE LENGTHS SHOWN ON PLAN AND PROFILES ARE FROM CENTER OF MANHOLES, CATCH BASINS, INLETS ETC. OR ALO OF FORCE MAINS AND WATER MAINS.
- INVERT ELEVATIONS SHOWN ON DRAWINGS REFER TO THE CI MANHOLES, UNLESS OTHERWISE INDICATED.
- THE LOCATION OF ALL EXISTING SEWER AND WATER SERVICE INDICATED ON THESE PLANS. THE LOCATION OF NEW SERVICE VERIFIED IN THE FIELD.
 BENCHMARK DATA: ______

PERMIT REQUIREMENTS (NOT ALL INCLUS

- CONTRACTOR TO OBTAIN ALL REQUIRED RIGHT-OF-WAY PERI
 CONTRACTOR SHALL NOT OPEN CUT STREETS IN THE PROJECT
- SPECIFICALLY SHOWN ON PLANS3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CONSULATION OF A CONSULATION OF
- (C.U.P.) THROUGH THE ST. JOHNS WATER MANAGEMENT DIST DEWATERING ACTIVITIES BE REQUIRED.
 4. THE DEPARTMENT OF TRANSPORTATION, RAILROAD COMPAN TO BE NOTIFIED IN ADVANCE OF CONSTRUCTION PER THEIR F
- CONDITIONS.
 ALL WORK SHALL BE IN ACCORDANCE WITH BID DOCUMENTS, SEWER STANDARDS, DETAILS AND MATERIALS MANUAL, REV. JACKSONVILLE STANDARD SPECIFICATIONS AND DETAILS AND
- STATE AND LOCAL REGULATIONS.
 IF SOLVENT CONTAMINATION IS FOUND IN THE PIPE TRENCH, STOPPED AND THE PROPER AUTHORITIES NOTIFIED. WITH AF PERMITTING AGENCY, DUCTILE IRON PIPE, FITTINGS AND SOL GASKET MATERIAL SHALL BE USED IN THE CONTAMINATED AF IRON PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND ANY SO
- 7. THE CONTRACTOR SHALL NOTIFY APPLICABLE UTILITY CONTA LESS THAN ONE WEEK PRIOR TO CONSTRUCTION OF FACILIT RESPECTIVE AREAS.
- 8. TREE PROTECTION SHALL BE IN ACCORDANCE WITH JACKSON CODE 656 AND/OR AS DETAILED ON SPECIFIC PLAN SHEETS. I OVERHANGING TREE LIMBS WILL BE ALLOWED. USE SMALLEF NECESSARY.
- 9. THE CONTRACTOR SHALL LOCATE THE DRAINAGE INLET STRU PROJECT AREA AND ERECT SEDIMENTATION CONTROL DEVIC PER THE CITY OF JACKSONVILLE STORMWATER POLLUTION P
- 10. CONTRACTOR TO COORDINATE WORK WITH OTHER UTILITIES CONSTRUCTION.
- EXISTING UTILITY PROTECTION: 1. IN ORDER TO REDUCE THE DISRUPTION AND COST OF UTILITY OCCURRING IN THE DUVAL COUNTY RIGHT-OF-WAY AND EASI CONTRACTOR SHALL PREVENT DAMAGES TO EXISTING UTILIT WORK THROUGH FIELD VERIFICATION OF THE LOCATION OF UTILITIES. IN THE CASE OF OPEN EXCAVATION, VERIFICATION DURING THE CONTRACTORS WORK. IN THE CASE OF DIRECTION VERIFICATION SHALL TAKE PLACE PRIOR TO MOBILIZATION O EQUIPMENT.
- 2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING NEEDED TO AVOID CONTACT. EXISTING UTILITIES SHALL BE E DETECTION EQUIPMENT OR OTHER ACCEPTABLE MEANS. SUC INCLUDE BUT SHALL NOT BE LIMITED TO "SOFT DIG" EQUIPME PENETRATING RADAR (GPR). THE EXCAVATOR SHALL BE HELL DAMAGES CAUSED TO THE CITY'S/JEA'S INFRASTRUCTURE AN FACILITIES OF OTHER UTILITY COMPANIES.
- IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOF AVOID ALL UTILITIES, OTHER STRUCTURES AND OBSTRUCTIC BELOW GROUND SURFACE. ALL DAMAGE RESULTING FROM TI FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE REF CONTRACTOR'S EXPENSE.

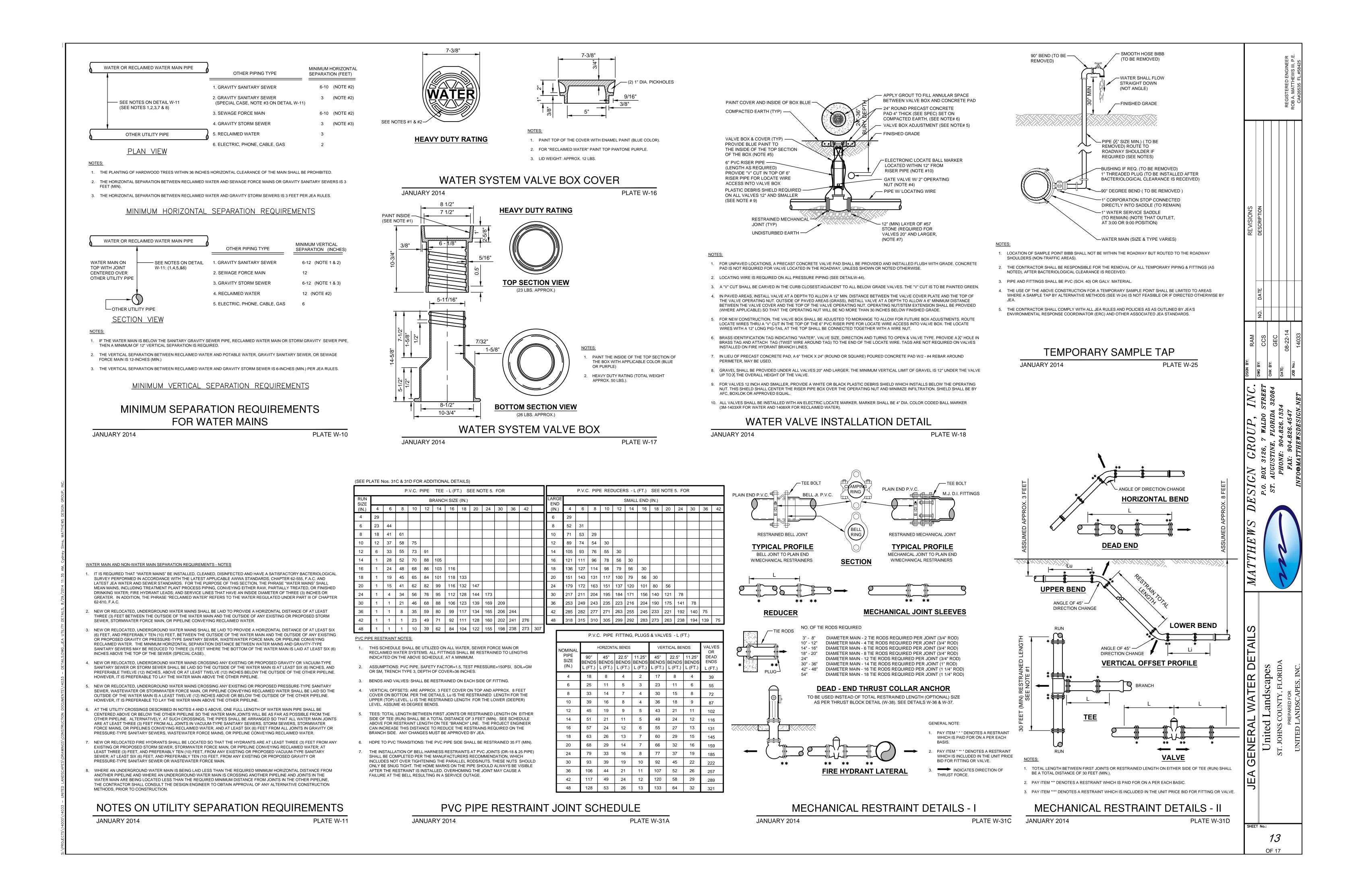
RESTORATION NOTES:

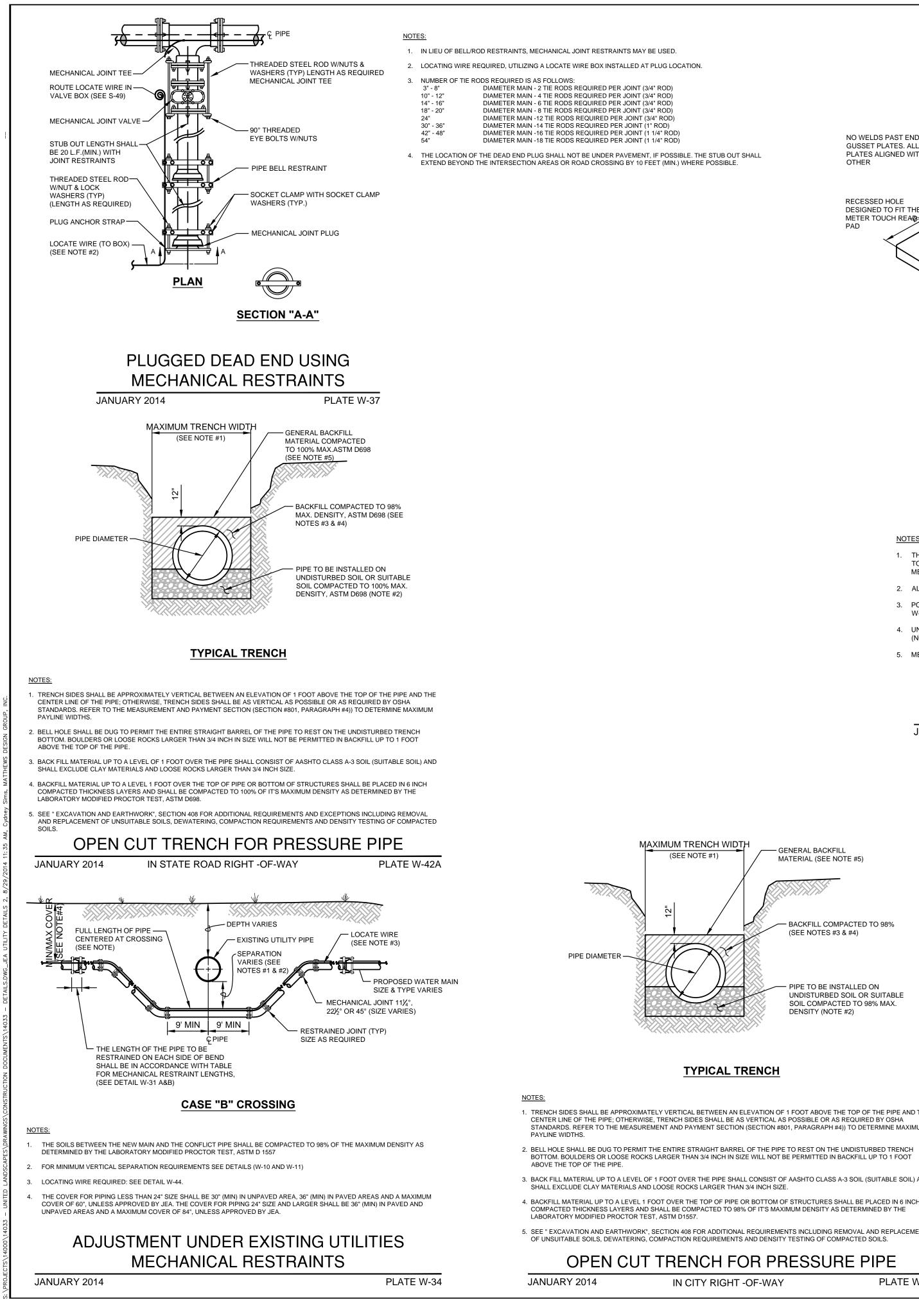
- 1. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR, REGIS OF FLORIDA, TO REFERENCE AND RESTORE PROPERTY CORI LANDMARKS WHICH MAY BE DISTURBED BY CONSTRUCTION, I LOCATIONS ARE AVAILABLE FROM THE CITY OF JACKSONVILL DIVISION.
- 2. THE CONTRACTOR SHALL RESTORE/REPLACE ALL CULVERTS STORM DRAIN INLETS REMOVED OR DISTURBED BY THE CONS OPERATION.
- 3. TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL BE RESTOF PRE-CONSTRUCTION CONDITION IN ACCORDANCE WITH CITY JACKSONVILLE/FDOT STANDARD SPECIFICATIONS.
- 4. SIDEWALKS, DRIVEWAYS AND CURBING DAMAGED OR REMOV CONSTRUCTION SHALL BE REPLACED IN ACCORDANCE WITH STANDARD SPECIFICATIONS. SIDEWALKS REMOVED AND REP GUTTER AREAS AT INTERSECTIONS SHALL HAVE HANDICAP R DRIVEWAYS AND SIDEWALKS SHALL BE SAWCUT ALONG THE OR NEAREST JOINT AND REMOVED AND REPLACED TO THE EI OR NEAREST JOINT AND REMOVED AND REPLACED TO THE EI
- 5. GRASS SOD SHALL BE FURNISHED AND PLACED IN THE AREAS DAMAGED BY THE CONSTRUCTION OPERATION.
- 6. ALL PAVEMENT REPAIR SHALL BE IN ACCORDANCE WITH THE JACKSONVILLE/FDOT STANDARD DETAILS AND SPECIFICATIO
- UNLESS OTHERWISE NOTED, REMOVE AND REPLACE EXISTING C.O.J. CASE X (10) PAVEMENT REPLACEMENT DETAIL.
- 8. CONTRACTOR MUST MAINTAIN AND PRESERVE NEWLY GRADE REPAIR AREAS WHERE SETTLING AND EROSION HAVE OCCUR

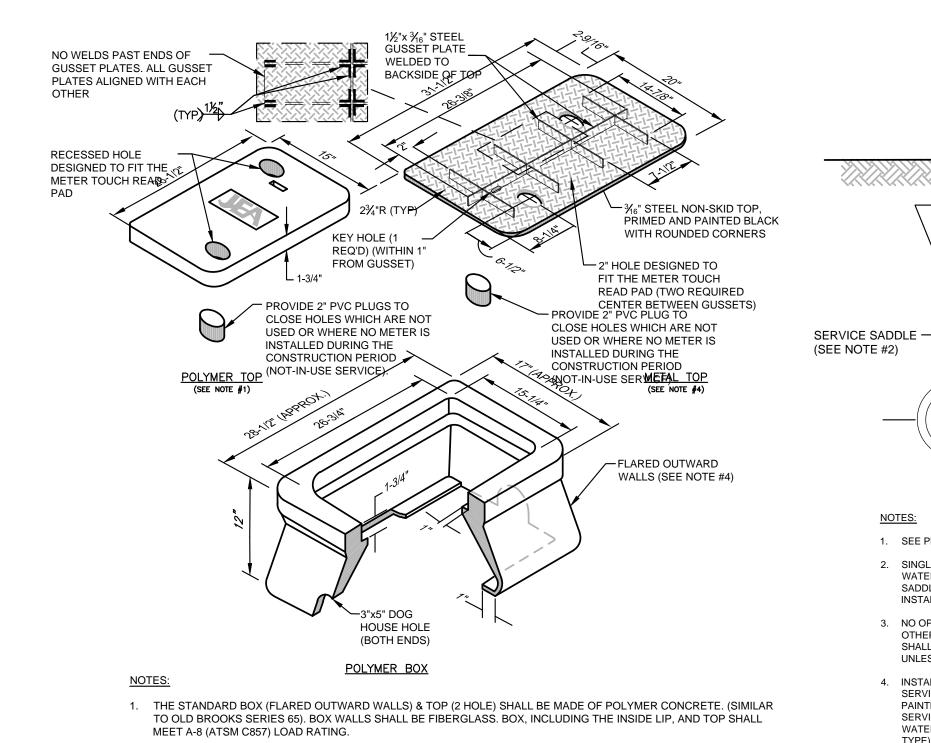
HOWN IN FEET.	INSTALLATION NOTES: 1. CONTRACTOR TO REHABILITATE ALL MANHOLES ON PIPE BURST SEWERS VIA COATING/LINING PER JEA SPECIFICATION 446-2, UNLESS OTHERWISE NOTED ON THE PLANS.	REGISTERED ENGINEER OB A. MATTHEWS III, P.E. CA#26535 FL.#58425
LOCATES WHERE	2. CONTRACTOR TO RENEW, REHABILITATE, REPLACE OR REINSTALL AS APPLICABLE	TERED ENGINE MATTHEWS III, 26535 FL.#5842
FIELD LOCATES AND	ALL SERVICE LATERALS TO R.O.W. LINE. 3. CONTRACTOR TO INSTALL SEWER SERVICE PIPING A MINIMUM OF 60 INCHES BELOW GRADE. WHERE NEW SANITARY SEWER MAIN IS LESS THAN 5 FEET DEEP,	REGISTERED ROB A. MATTH CA#26535
JND PENETRATING ALL BE AWARE THAT IN Y HAS BEEN COMPLETED	 4. WHEN THE DISTANCE BETWEEN A POWER POLE AND THE TRENCH IS LESS THAN THE SEWER SERVICE PIPE SHALL BE INSTALLED AS DEEP AS POSSIBLE. 4. WHEN THE DISTANCE BETWEEN A POWER POLE AND THE TRENCH IS LESS THAN THE TRENCH DEPTH, THE CONTRACTOR SHALL BE RESPONSIBLE FOR 	
ROM CENTER TO	COORDINATING WITH JEA ELECTRICAL PERSONNEL TO SECURE POWER POLES. THE CONTACTS FOR JEA ARE AS FOLLOWS: NORTHSIDE~EAST of US-1 MIKE CORBITT @ 665-7991 (mobile 662-0635)	
LONG THE CENTER LINE	NORTHSIDE~WEST of US-1 ANDY YEAGER @ 665-7998 (mobile 662-0622) NORTHSIDE~BACKUP ALAN AINSLEY @ 665-7303 (mobile 662-6557) SOUTHSIDE~SOUTH of BEACH BLVD. TOM KERNS @ 665-6847 (mobile 860-1687)	
	SOUTHSIDE~NORTH of BEACH BLVD. DERYL BASFORD @ 665-6855 (mobile 662-0616) SOUTHSIDE~BACKUP EDDIE GALES @ 665-6855 (mobile 662-0616) A MINIMUM OF TWO (2) WORKING DAYS NOTICE IS REQUIRED FOR AN OUTSIDE	
/ICE LINES MAY NOT BE /ICES SHALL BE	MEETING WITH JEA ELECTRICAL TO DISCUSS THE REQUIRED WORK. ADDITIONAL TIME WILL BE REQUIRED BY JEA ELECTRICAL FOR ANY REQUIRED WORK TO BE ACCOMPLISHED.	
	 ALL NEW STORM DRAIN PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC. THE DESIGN FOR THE PROJECT IS BASED UPON THE "OPEN-CUT" METHOD OF 	S K
JSIVE): ERMITS.	CONSTRUCTION. IF USING ALTERNATIVE MEANS OR METHODS, THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE STANDARDS FOR THAT MEANS OR METHOD.	REVISIONS
JECT AREA UNLESS NSUMPTIVE USE PERMIT ISTRICT SHOULD	7. THE CONTRACTOR SHALL MINIMIZE SERVICE INTERRUPTIONS AT SERVICE CONNECTIONS. THE MEANS AND METHODS SHALL BE LEFT TO THE DISCRETION OF THE CONTRACTOR, SUBJECT TO THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS. NO EXISTING ACTIVE SERVICE SHALL BE LEFT INTERRUPTED AT THE END OF THE WORK DAY.	DEG
PANIES AND C.O.J. ARE IR RESPECTIVE PERMIT	8. CONTRACTOR SHALL PROVIDE ADDITIONAL CORPORATION STOPS FOR FILLING AND DRAINING PURPOSES DURING CONSTRUCTION AS NEEDED. CORPORATION STOPS ARE TO BE PLUGGED AND LEFT IN PLACE. INDICATE CORPORATION STOP LOCATIONS ON RECORD DRAWINGS (AS-BUILTS).	
TS, JEA WATER AND EV. 4/01. AND CITY OF AND ALL APPLICABLE	 WATER AND SEWER SERVICES SHALL BE TRANSFERRED TO THE NEW MAIN UPON COMPLETION AND F.D.E.P./J.E.A. CERTIFICATION, AND PRIOR TO THE EXISTING MAINS BEING ABANDONED. 	DATE
CH, WORK SHALL BE I APPROVAL OF THE SOLVENT RESISTANT	10. IF EXISTING VALVES ARE IN UNPAVED AREAS AND ARE TO BE TAKEN OUT OF SERVICE, THEY SHALL BE CLOSED AND THE VALVE BOX AND COVER SHALL BE REMOVED. IF THE VALVES ARE UNDER PAVED AREAS, THEY SHALL BE CLOSED, THE VALVE BOX GROUT FILLED AND THE COVER REMOVED.	0, V
AREA. THE DUCTILE SOLVENT NOTED.	11. CONTRACTOR SHALL REPLACE EXISTING WATER METER BOXES WHEN DEEMED NECESSARY BY THE JEA INSPECTOR.	RAM CCS GEC 08-22-14 14033
NTACT PERSONNEL NOT LITIES IN THEIR	12. CONTRACTOR TO PROVIDE ADDITIONAL DEPTH OF BURY VIA PIPE JOINT DEFLECTION TO ACCOMMODATE VALVE SELECTION PER JEA STANDARDS.	
SONVILLE ORDINANCE 'S. NO TRIMMING OF LER EQUIPMENT IF	13. WATER METERS MAY REQUIRE RELOCATION FOR CONSTRUCTION, CONTRACTOR SHALL CONTACT JEA METER DEPARTMENT AND RELOCATE WATER METERS AS NECESSARY.	DSGN BY: DWG BY: CHK BY: JOB No.:
TRUCTURES IN THE VICES AS NECESSARY N PREVENTION PLAN.	14. PRIOR TO COMMENCING ANY EXCAVATION OR GRADING, THE CONTRACTOR SHALL OBTAIN ALL GEOTECHNICAL AND TOPOGRAPHIC SURVEY DATA AND LOCATIONS OF ABOVE GROUND AND UNDERGROUND UTILITIES. SHOULD THE CONTRACTOR DISCOVER ANY INACCURACIES, ERRORS OR OMISSIONS IN THE SURVEY DATA, HE SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER IN ORDER THAT PROPER), INC. D, INC. D0 STREET RIDA 32084 1334 1334 1547 SIGN.NET
	ADJUSTMENTS CAN BE ANTICIPATED AND ORDERED. 15. SHEET PILING WILL BE REQUIRED ON ALL EXCAVATIONS DEEPER THAN 16 FEET.) [] [] ' WAL FLO1 4.826.4 826.4 WSDE
ITY DAMAGES ASEMENTS, THE ILITIES CAUSED BY HIS DF THE EXISTING ON MAY BE PERFORMED DTIONAL DRILLING, N OF THE DRILLING		GR C 3126, USTINE, IONE: 904 MATTHE
ING UTILITIES AS E EXPOSED USING SUCH METHODS MAY PMENT AND GROUND		DESIGN P.0. B0X ST. AUG
ELD LIABLE FOR AND THE EXISTING		
FOR TO LOCATE AND TIONS BOTH ABOVE AND A THE CONTRACTOR'S REPAIRED AT THE		MATTHEW
GISTERED IN THE STATE ORNERS AND N, KNOWN CORNER ILLE ENGINEERING		MAT
TS, HEADWALLS AND		
FORED TO THEIR TY OF		
IOVED DURING TH JACKSONVILLE IEPLACED IN CURB AND P RAMPS INSTALLED. HE RIGHT-OF-WAY LINE E EDGE OF STREET.		NOTES capes FLORIDA ES, INC.
		RAL NOT andscapes UNTY, FLORID Ared For VDSCAPES, INC
HE CITY OF TIONS LATEST EDITION. TING PAVEMENT AS PER		NERAL N(d Landsca] s county, flc prepared for LANDSCAPES,
ADED AREAS AND SURRED.		GEI Jnite Johns
		JEA U ^{ST.}
		SHEET No.:

12

OF 17







2. ALL SIZES SHOWN ARE IN INCHES AND ARE APPROXIMATE SIZES.

JANUARY 2014

- 3. POLYMER BOX APPROXIMATE WEIGHT 50lbs. POLYMER TOP APPROXIMATE WEIGHT 50lbs. SEE CONSTRUCTION DETAIL W-4A FOR MANUFACTURING DETAIL FOR TWO HOLE COVER.
- 4. UNLESS APPROVED OTHERWISE IN WRITING BY JEA, ALL METER BOXES SHALL BE LOCATED IN NON-TRAFFIC AREAS (NOT IN THE ROADWAY, DRIVEWAYS OR SIDEWALKS).
- 5. METAL TOPS MAY BE UTILIZED IF SPECIFICALLY APPROVED BY A JEA MANAGER OR BY JEA METER O&M STAFF

WATER METER BOX & COVER FOR 1-1/2" AND 2" METERS PLATE W-4

(ANCHOR TEE) SIZED AS REQUIRED

PROVIDE SPOOL PIECE WITH

3/4" RODS (24" LONG MIN) 30" MIN

6" PIPE

/--- MJ TEE OR HYDRANT TEE

JANUARY 2014

- HYDRANT SUMP (PROVIDE GRAVEL

AND FILTER FABRIC AS SHOWN)

NOTES:

MAXIMUM TRENCH WIDTH - GENERAL BACKFILL (SEE NOTE #1) MATERIAL (SEE NOTE #5) (SEE NOTES #3 & #4) PIPE TO BE INSTALLED ON DENSITY (NOTE #2)

3/4' RODS ALONG FIRST 15 LE-FROM HYDRANT (NOTE #2) 2'-8" - 6" M.J. GATE VALVE (RESTRAINTS REQ.) POSITIONED NEAREST TEE FITTING - MECHANICAL RESTRAINT REQUIRED (TYP) <u>PLAN</u> PROVIDE RAISED PAVEMENT MARKER-(SEE NOTE #6) 3-WAY FIRE HYDRANT PUMPER NOZZLE -TO FACE & OF PAVEMENT (SEE NOTES #3 & #4) WATER VALVE BOX (COVER PAINTED YELLOW)-BREAKABLE FLANGE -- FINISHED LOCATED (1"MIN.) ABOVE GRADE FINISHED GRADE LOCATE WIRE IF REQUIRED --LEAVE DRAIN (SEE NOTE #1) HOLES OPEN BARE WIRE DEAD-END-(NOTE #1) HYDRANT SUMP PROVIDE FILTER FABRIC (MARAFI 700X, 140'S -OR EQUAL) TO TOP AND ALL 4 SIDES. 2'-8" SECTION FIRE HYDRANT INSTALLATION USING MECHANICAL JOINT TEE

- BACKFILL COMPACTED TO 98% UNDISTURBED SOIL OR SUITABLE SOIL COMPACTED TO 98% MAX. **TYPICAL TRENCH** 1. TRENCH SIDES SHALL BE APPROXIMATELY VERTICAL BETWEEN AN ELEVATION OF 1 FOOT ABOVE THE TOP OF THE PIPE AND THE CENTER LINE OF THE PIPE; OTHERWISE, TRENCH SIDES SHALL BE AS VERTICAL AS POSSIBLE OR AS REQUIRED BY OSHA STANDARDS. REFER TO THE MEASUREMENT AND PAYMENT SECTION (SECTION #801, PARAGRAPH #4)) TO DETERMINE MAXIMUM

BOTTOM. BOULDERS OR LOOSE ROCKS LARGER THAN 3/4 INCH IN SIZE WILL NOT BE PERMITTED IN BACKFILL UP TO 1 FOOT

3. BACK FILL MATERIAL UP TO A LEVEL OF 1 FOOT OVER THE PIPE SHALL CONSIST OF AASHTO CLASS A-3 SOIL (SUITABLE SOIL) AND

4. BACKFILL MATERIAL UP TO A LEVEL 1 FOOT OVER THE TOP OF PIPE OR BOTTOM OF STRUCTURES SHALL BE PLACED IN 6 INCH COMPACTED THICKNESS LAYERS AND SHALL BE COMPACTED TO 98% OF IT'S MAXIMUM DENSITY AS DETERMINED BY THE

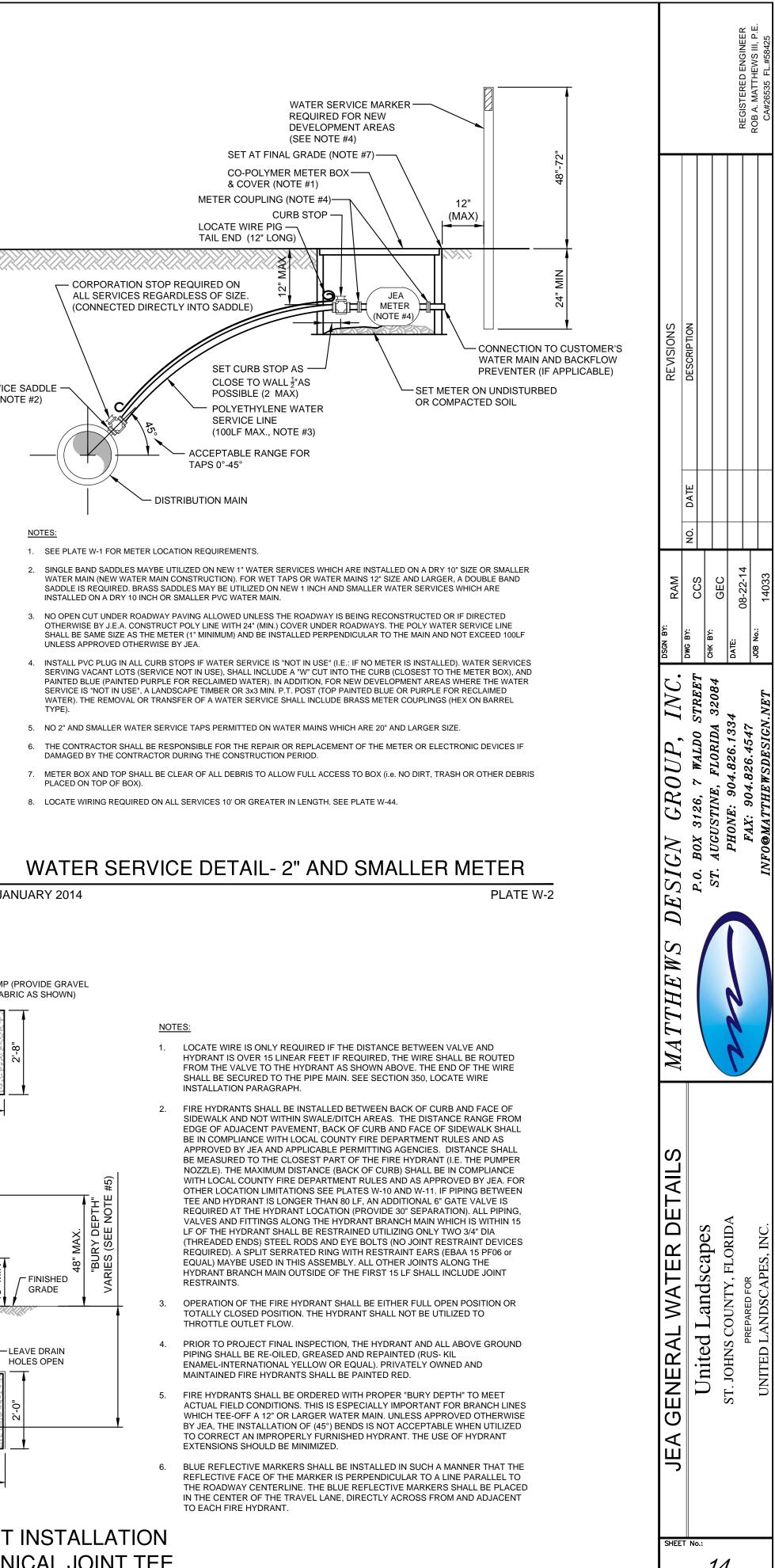
5. SEE " EXCAVATION AND EARTHWORK", SECTION 408 FOR ADDITIONAL REQUIREMENTS INCLUDING REMOVAL AND REPLACEMENT OF UNSUITABLE SOILS, DEWATERING, COMPACTION REQUIREMENTS AND DENSITY TESTING OF COMPACTED SOILS.

OPEN CUT TRENCH FOR PRESSURE PIPE

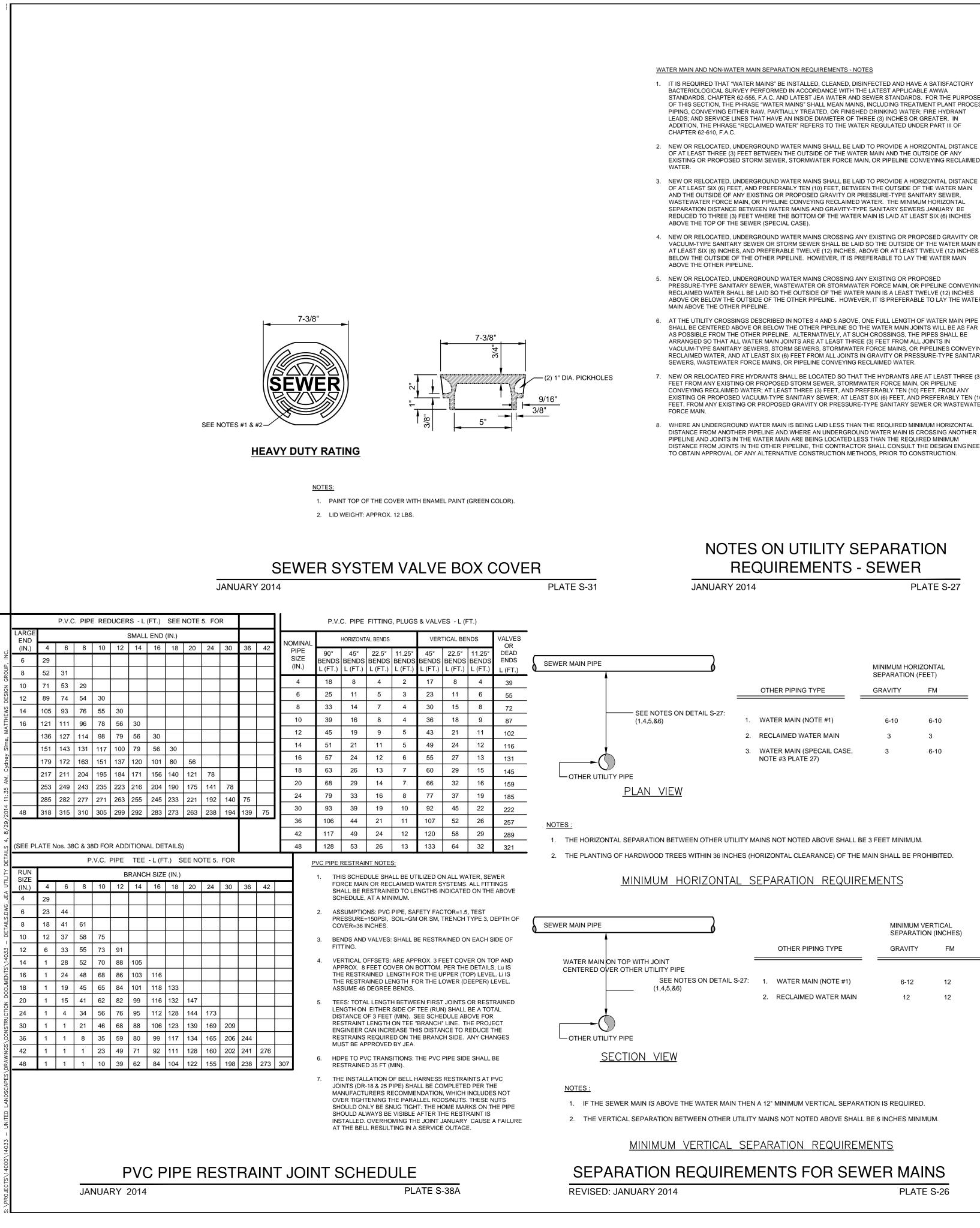
IN CITY RIGHT -OF-WAY

PLATE W-42

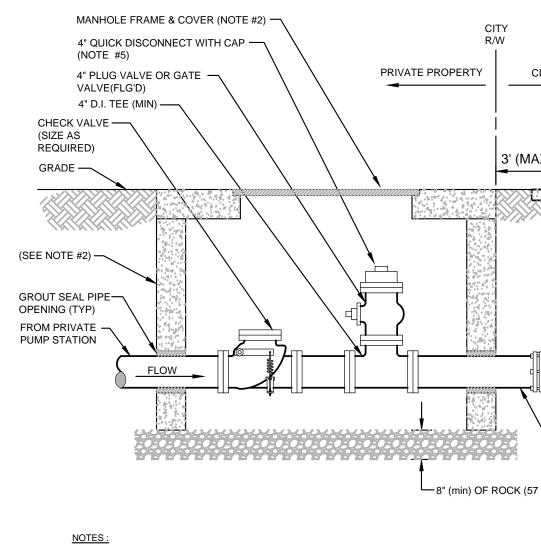
JANUARY 2014



OF 17



- STANDARDS, CHAPTER 62-555, F.A.C. AND LATEST JEA WATER AND SEWER STANDARDS. FOR THE PURPOSE OF THIS SECTION, THE PHRASE "WATER MAINS" SHALL MEAN MAINS, INCLUDING TREATMENT PLANT PROCESS
- EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED
- 4. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX (6) INCHES, AND PREFERABLE TWELVE (12) INCHES, ABOVE OR AT LEAST TWELVE (12) INCHES
- PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS A LEAST TWELVE (12) INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER
- 6. AT THE UTILITY CROSSINGS DESCRIBED IN NOTES 4 AND 5 ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER, AND AT LEAST SIX (6) FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY
- 7. NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SO THAT THE HYDRANTS ARE AT LEAST THREE (3) EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER; AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER OR WASTEWATER
- DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER DISTANCE FROM JOINTS IN THE OTHER PIPELINE, THE CONTRACTOR SHALL CONSULT THE DESIGN ENGINEER



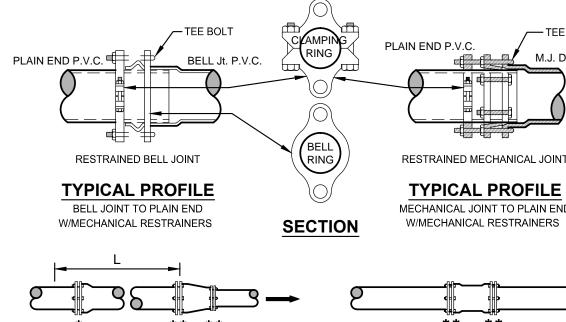
- 1. SEWER PUMP-OUT BOX SHALL BE CONSTRUCTED ON PRIVATE PROPERTY AND LOCATED AT THE F THE PREFERRED CONSTRUCTION LAYOUT IS SHOWN ABOVE.
- 2. ASSEMBLY TO BE ENCLOSED WITHIN A 48"x48" (MIN) PRECAST CONCRETE BOX WITH OPEN BOTT(TRAFFIC LOADING COVER OR TYPE "C" MANHOLE OPEN BOTTOM WITH FRAME AND COVER (NON-J
- 3. A JEA APPROVED GATE VALVE (4" MIN) SHALL BE PROVIDED AT THE R/W LINE FOR ALL FORCE MAIN WHICH EXCEEDS 15' LINEAR FEET WITHIN THE CITY R/W AREA. THE GATE VALVE AT THE R/W LINE REQUIRED WHERE THE CONNECTION (CONNECTION AT JEA MAIN) IS LOCATED ON THE SAME SIDE STREET AS THE PUMP-OUT BOX (SHORT-SIDE SERVICE) AND CONSIST OF 15 LINEAR FEET OR LESS THE CITY R/W AREA.

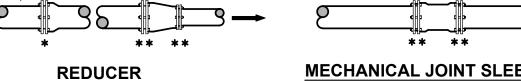
TYPE COVER).

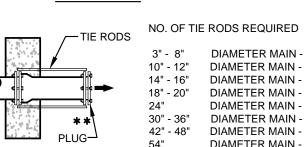
JANUARY 2014

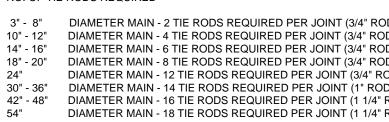
- 4. NO CONNECTIONS PERMITTED INTO JEA FORCE MAINS WHICH ARE GREATER THAN 12" SIZE UNLES CONNECTION IS FROM A MASTER PUMP STATION (441GPM, MIN.)
- 5. QUICK DISCONNECT WITH CAP SHALL BE ALUMINUM AND BE POSITIONED DIRECTLY UNDER MANHO FOR ACCESS.











GENERAL NOTE:

- 1. PAY ITEM " * " DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIS.
- 2. PAY ITEM " ** " DENOTES A RESTRAINT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE.
- 3. INDICATES DIRECTION OF THRUST FORCE.

MECHANICAL RESTRAINT DETAILS - I

JANUARY 2014

COVER (NOTE #2)					REGISTERED ENGINEER ROB A. MATTHEWS III, P.E. CAMPEESE EI #60075
CT WITH CAP					
(SEE NOTE #3) - LOCATE WIRE REQUI TO JEA SYSTEM - UCCATE WIRE REQUI - TO JEA SYSTEM - UCCATE WIRE REQUI - TO JEA SYSTEM - UCCATE WIRE REQUI	RED				
T BOX SHALL BE CONSTRUCTED ON PRIVATE PROPERTY AND LOCATED AT THE R/W LINE. CONSTRUCTION LAYOUT IS SHOWN ABOVE.					-22-14
ENCLOSED WITHIN A 48"x48" (MIN) PRECAST CONCRETE BOX WITH OPEN BOTTOM W/H-20 5 COVER OR TYPE "C" MANHOLE OPEN BOTTOM WITH FRAME AND COVER (NON-JEA LOGO GATE VALVE (4" MIN) SHALL BE PROVIDED AT THE R/W LINE FOR ALL FORCE MAIN PIPING 15' LINEAR FEET WITHIN THE CITY R/W AREA. THE GATE VALVE AT THE R/W LINE IS NOT E THE CONNECTION (CONNECTION AT JEA MAIN) IS LOCATED ON THE SAME SIDE OF THE UMP-OUT BOX (SHORT-SIDE SERVICE) AND CONSIST OF 15 LINEAR FEET OR LESS WITHIN FA.			DSGN BY: RA DWG BY:		DATE: 08-22-1. JOB No.: 14033
S PERMITTED INTO JEA FORCE MAINS WHICH ARE GREATER THAN 12" SIZE UNLESS THE ROM A MASTER PUMP STATION (441GPM, MIN.) CT WITH CAP SHALL BE ALUMINUM AND BE POSITIONED DIRECTLY UNDER MANHOLE LID PRIVATE PUMP OUT ASSEMBLY PLATE S-46			OUP, INC.	7 WALDO STREET FLORIDA 32084 DA 826 1934	4.820. 826.4 WSDFS
			DESIGN GRO	P.O. BOX 3126, 7 ST. AUGUSTINE, DHOWE, 000	FRUME: 304 FAX: 904 INFORMATTHE
E BOLT TEE BOLT TEE BOLT N.C. H.J. D.I. FITTINGS BELL RING	PAINT INSIDE (SEE NOTE #1) 3/8" 6 - 1/8" 5/16"	HEAVY DUTY RATING	MATTHEWS		
$\begin{array}{c} \mathbf{E} \\ \mathbf{D} \\ \mathbf{RS} \\ \mathbf{SECTION} \end{array} \xrightarrow{\mathbf{TYPICAL PROFILE}} \\ \text{MECHANICAL JOINT TO PLAIN END} \\ \text{WMECHANICAL RESTRAINERS} \end{array}$		TOP SECTION VIEW (23 LBS. APPROX.)	DETAILS	SS DA	
ABCHANICAL JOINT SLEEVES O. OF TIE RODS REQUIRED ** DIAMETER MAIN - 2 TIE RODS REQUIRED PER JOINT (3/4" ROD) *-12" DIAMETER MAIN - 4 TIE RODS REQUIRED PER JOINT (3/4" ROD) *-16" DIAMETER MAIN - 6 TIE RODS REQUIRED PER JOINT (3/4" ROD) *-20" DIAMETER MAIN - 8 TIE RODS REQUIRED PER JOINT (3/4" ROD) *-20" DIAMETER MAIN - 12 TIE RODS REQUIRED PER JOINT (3/4" ROD) *-36" DIAMETER MAIN - 14 TIE RODS REQUIRED PER JOINT (3/4" ROD) *-48" DIAMETER MAIN - 16 TIE RODS REQUIRED PER JOINT (1/4" ROD) *-48" DIAMETER MAIN - 18 TIE RODS REQUIRED PER JOINT (1 1/4" ROD) *-48" DIAMETER MAIN - 18 TIE RODS REQUIRED PER JOINT (1 1/4" ROD) *-50" DIAMETER MAIN - 16 TIE RODS REQUIRED PER JOINT (1 1/4" ROD) *-50" DIAMETER MAIN - 18 TIE RODS REQUIRED PER JOINT (1 1/4" ROD) *-50" DIAMETER MAIN - 18 TIE RODS REQUIRED PER JOINT (1 1/4" ROD) *-50" DIAMETER MAIN - 18 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)	14-5/8" 14-5/8" 1-1/2" 1-5/8" 1-1/2" 1-5/ 1-1/2" 1-5/	Main Main Main	ENERAL SEWER	United Landscapes	REPARED FOR
AS PER THRUST BLOCK DETAIL (W-38). SEE DETAILS W-36 & W-37. NT WHICH IS PAID FOR ON A PER EACH BASIS. INT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE. THRUST FORCE.	NOTES: 1. PAINT THE INSIDE OF THE TOP SECTION (2. HEAVY DUTY RATING (TOTAL WEIGHT API		JEA G		
ICAL RESTRAINT DETAILS - I PLATE S-38C	SEWER SYSTEM V JANUARY 2014	ALVE BOX PLATE S-32	SHEET	No.: 15 OF 17	

SITE DESCRIPTION	GENERAL
PROJECT NAME UNITED LANDSCAPES	
LOCATION: SOUTHSIDE RACETRACK RD APROX. 1500FT E OF DURBIN CREEK ELEMENTARY	THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CON REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SH AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTO
LATITUDE:	ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPEN OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTR
LONGITUDE: 81° 32' 49" E	REQUIRED TO ADD FLOCCULENTS TO THE RETENTION SYSTEM THE SYSTEM INTO OPERATION.
OWNER NAME AND ADDRESS: UNITED LANDSCAPES, INC 6126 US1 NORTH ST. AUGUSTINE, FL 32095	SEQUENCE OF MAJOR ACTIVITIES:
DESCRIPTION: CONSTRUCT 4800SF LANDSCAPE RETAIL BUILDING WITH AN ASSOCIATED UTILITIES AND PARKING AREA	THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:
	1. INSTALL STABILIZED 9. INSTALL S CONSTRUCTION ENTRANCE AND IRRIG 2. INSTALL SILT FENCES AND HAY 10. COMPLE*
SOIL DISTURBING ACTIVITIES WILL INCLUDE:	BALES AS REQUIRED INSTALL F 3. CLEAR AND GRUB FOR DIVERSION SEEDING/
EARTHWORK, AND GRADING; UTILITIES CONSTRUCTION.	SWALES/DIKES AND SEDIMENT 11. REMOVE BASIN SEDIMEN 4. CONSTRUCT SEDIMENTATION 12. WHEN A
RUNOFF CURVE NUMBERS:	BASIN ACTIVITY 5. CONTINUE CLEARING AND SITE IS ST
1. PRE-CONSTRUCTION =74 2. DURING CONSTRUCTION =80 3. POST-CONSTRUCTION =86	GRUBBING TEMPORA 6. STOCK PILE TOP SOIL IF REQUIRED SWALES/I 7. PERFORM PRELIMINARY GRADING AS REQUI
EXISTING SOILS TYPE: B/D	ON SITE AS REQUIRED 8. STABILIZE DENUDED AREAS AND
ESTIMATED SHWLS: EQUAL TO OBSERVED GWL	STOCKPILES AS SOON AS PRACTICABLE
* SEE ATTACHED GRADING PLAN FOR PRE & POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS	
AND STORM WATER DISCHARGE POINTS. * SEE ATTACHED EROSION & TURBIDITY CONTROL PLAN FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS	
* SEE GENERAL NOTES FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION.	AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, TH AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE & BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GF
SITE AREA: 1. TOTAL AREA OF SITE = 10.63 ACRES	OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SI
2. TOTAL AREA TO BE DISTURBED = <u>4.66</u> ACRES NAME OF RECEIVING WATERS: ONSITE DETENTION BASINS	CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERM CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMA AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN /
OUTFALL 1: DRAINAGE AREA: <u>9.73 AC DRAINS TO SOUTHWEST CORNER</u>	WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE S
LATITUDE:	AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOV
OUTFALL 2: DRAINAGE AREA: <u>2.15 AC DRAINS TO NORTHWEST CORNER</u> LATITUDE: <u>30° 06' 17" N</u>	CONTROLS
LONGITUDE: 81° 32' 49" W	IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT TURBIDITY CONTROLS AS SHOWN ON THE EROSION AND
CONTROLS	PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO CONTROLS ARE PROPERLY INSTALLED , MAINTAINED AND
THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. AN EROSION AND TURBIDITY PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON	TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE CONTRACTOR WILL ADJUST THE EROSION AND TURBI ON THE EROSION AND TURBIDITY CONTROL PLAN AND AD
PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS PER PLAN AS WELL AS ENSURING	MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS AN LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENT
THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE AND LOCAL LAWS. REFER TO "CONTRACTORS RESPONSIBILITY" FOR A	MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE REQUIRED BY THE EROSION AND TURBIDITY CONTROL PL/
DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.	TO MEET THE EROSION AND TURBIDITY REQUIREMENTS IN SITE BY THE REGULATORY AGENCIES.
STORM WATER DRAINAGE WILL BE PROVIDED BY (DESCRIPTION:) WET DETENTION	
AREAS WHICH ARE NOT TO BE CONSTRUCTED ON, BUT WILL BE REGRADED SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE. WHEN CONSTRUCTION IS COMPLETE, A TOTAL OF 4.66 ACRES WILL	EROSION AND SEDIMENT CONTROLS
HAVE BEEN REGRADED AND <u>10.63</u> ACRES LEFT UNDISTURBED. THE SITE DISCHARGES TO A DRY RETENTION SYSTEM. WHERE PRACTICAL, TEMPORARY SEDIMENT	STABILIZATION PRACTICES 1. HAY BALE BARRIERS CAN BE USED I
BASINS WILL BE USED TO INTERCEPT SEDIMENT BEFORE ENTERING THE PERMANENT RETENTION BASIN. THIS IS IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY	DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSIO FOLLOWING LIMITATIONS:
THE WATER MANAGEMENT DISTRICT FOR THIS TYPE OF DEVELOPMENT AT THE TIME OF PERMITTING	A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN
BMP'S TO BE IMPLEMENTED	C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE O
BMP:DETENTION POND & CONSTRUCTION EXIT LOCATION AND DESCRIPTION: BMP:SILT FENCE	BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWA THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESS/ SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INS
LOCATION AND DESCRIPTION:PERIMETER OF SITE BMP: LOCATION AND DESCRIPTION:	AGAINST WASHOUT. REFER TO THE DETAILS FOR CONSTRUCTING THE HAY B/
	ALSO REFER TO THE DETAILS FOR PROPER LOCATIO AND USAGE.
	 FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSIO FOLLOWING LIMITATIONS:
CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS	A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIM
	CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN REFER TO THE DETAIL SHEET FOR PROPER CONSTRUCT OF THE FILTER FABRIC BARRIER.
IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS RELATED TO STORM WATER MANAGEMENT AND EROSION AND TURBIDITY CONTROLS, THE FOLLOWING	3. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER
PERMITS HAVE BEEN OBTAINED.	BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.
C.O.E. DREDGE/FILL PERMIT # <u>N/A</u> W.M.D. ENVIRONMENTAL RESOURCE PERMIT # <u>P</u> ENDING	 LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WH FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED A GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS.
	APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREA
POLLUTION PREVENTION PLAN CERTIFICATION	
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN	
ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION	I
SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE	
BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE	
INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	INSTALL SEDIMENT CONT CLEARING & GRUBBING STRIPPING AND TOPSOIL
SIGNED:	POND EXCAVATION SITE ROUGH GRADING INSTALL STORMWATER M
	TEMPORARY VEGETATIO BUILDING CONSTRUCTIO PARKING AREA AND ROAI PERMANENT VEGETATIO
DATED:	REMOVE TEMPORARY ER

STORM WATER POLLUTION PREVENTION PLAN

CONTRACTOR'S REQUIREMENTS

	CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL LIP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE. LEVEL SPREADER SHALL BE CONSTRUCTED	THE 3,600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS	HAZARDOUS PRODUCTS THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.
CTOR'S NON THE EROSION HALL UNDERTAKE	IN ACCORDANCE TO THE DETAILS.	THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN, ANY TEMPORARY SEDIMENT	* PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NO RESEALABLE.
PPLICABLE PERMIT G ON THE NATURE	STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.	BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL	* ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
OR MAY BE IOR TO PLACING	6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE	SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.	* IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCA
	SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN	OTHER CONTROLS	AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.
	EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.		PRODUCT SPECIFIC PRACTICES THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE PETROLEUM PRODUCTS
M SEWER, DN.	7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE	WASTE DISPOSAL	ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF
RADING AND ANENT AND PLANTING	DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.	WASTE MATERIALS ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE	LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S
UMULATED DM BASINS	8. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND	COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE	RECOMMENDATIONS. FERTILIZERS
DNSTRUCTION DMPLETE AND THE IZED, REMOVE ANY	RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT	TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE	FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WI BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER.
IVERSION S AND RESEED/SOD	LATER COMPETE WITH THE PERMANENT GRASSING. 9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT	PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR	STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
	FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED	SEEING THAT THESE PROCEDURES ARE FOLLOWED.	PAINTS ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT
	AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.	HAZARDOUS WASTE	REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDI
	SHALL BE ROLLED AND WATERED OR HYDRO MULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING	ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE	TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATION CONCRETE TRUCKS CONCRETE TRUCKS SHALL BE ALLOWED TO WASH OUT OR DISCHARGE
	CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.	PRACTICES AND THE SITE SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.	SURPLUS CONCRETE OR DRUM WASH WATER ONLY AT DISCHARGE POIN PROVIDED. NO OFFSITE DISCHARGE WILL BE PERMITTED.
EDIMENT G OF ANY LL BE	11. TEMPORARY REGRASSING : IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75	SANITARY WASTE	SPILL CONTROL PRACTICES
HERE NTLY LY IN AN RDANCE	PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.	ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DEPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.	IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:
ENT TRAPS ND STABILIZED	12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO	OFFSITE VEHICLE TRACKING	MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF
AN.	FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED. 13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF	A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS	PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
	THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.	MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.	MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL
EROSION AND DITY CONTROL JRE THESE	14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL	INVENTORY FOR POLLUTION PREVENTION PLAN	INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (i.e. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICAL
CTIONING PROPERLY E PROJECT SITE. CONTROLS SHOWN	VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED OR SODDED.		FOR THIS PURPOSE. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
DITIONAL CONTROL DERAL, STATE AND E FOLLOWING BEST	15. TEMPORARY FLOATING TURBIDITY BARRIER: FLOATING TURBIDITY BARRIER MAY BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.		THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM
ITRACTOR AS ID AS REQUIRED ED ON THE PROJECT	FILTER CURTAIN SHALL REACH THE BOTTOM UP TO DEPTHS OF 10 FEET.	Concrete Fertilizers Wood Asphalt Petroleum Based Products Masonry Blocks Tar Cleaning Solvents Roofing Materials	CONTACT WITH A HAZARDOUS SUBSTANCE.
ED ON THE PROJECT	STRUCTURAL PRACTICES	Detergents Paints Metal Studs	APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF TH SIZE OF THE SPILL.
	 TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY. 		THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP
	AND IT SHALL BE CONSTRUCTED IN ACCORDANCE TO WITH THE DETAILS.		THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
V H THE	AN DRAINAGE WAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA.	SPILL PREVENTION	THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO
RCENT.	THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE:	MATERIAL MANAGEMENT PRACTICES THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL	WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE
RES. INTHS.	A. BLOCK & GRAVEL SEDIMENT FILTER - THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND	BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.	OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.
AW BALE /HERE /EASURES	THE STRUCTURE. REFER TO THE DETAIL SHEET FOR CONSTRUCTION OF A CURB INLET SEDIMENT FILTER, AND FOR CONSTRUCTION OF A DROP INLET SEDIMENT FILTER.	GOOD HOUSEKEEPING THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED	
ARRIER.	AREAS. REFER TO THE DETAILS FOR CONSTRUCTION OF CURB INLET & DROP B. GRAVEL SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE	ONSITE DURING THE CONSTRUCTION PROJECT.	
TERIAL	HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES & UNPROTECTED	DO THE JOB. * ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY	
ED BELOW H THE	SEDIMENT TRAP.	MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.	MAINTENANCE/INSPECTION PROCEDURES
RCENT. RES.	THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE SHEET OR OVERLAND FLOWS (Q < 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH	* PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.	EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRAC
	AS IN STREET OR HIGHWAY MEDIANS. REFER TO THE DETAILS FOR CONSTRUCTION OF HAY BALE & FABRIC SEDIMENT FILTER.	* SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.	THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WI USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS. * NO MORE THAN 10 ACRES OF THE SITE WILL BE DENUDED AT ONE TIME
BE USED SION WHERE	 OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION & SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES & 	* WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.	* ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT,
SEDIMENT-	HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.	* MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL	THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK FOLLOWING ANY STORM EVENT OF 0.50 INCHES OR GREATER.
FROM THE PRACTICE CAN BE	4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, THE PROPOSED STORM WATER PONDS (OR TEMPORARY	WILL BE FOLLOWED. * THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS	* ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORK ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOUR REPORT.
	PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE.	ONSITE RECEIVE PROPER USE AND DISPOSAL.	* BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
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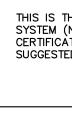
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REGISTERED ENGINEER ROB A. MATTHEWS III, P.E A AND FDOT EVISED PER SJC 1S EVISED PER COSA / EVISED PER SJC 2N S 4 P.O. BOX 31 ST. AUGUS PHOF FA3 SWPPP United Landscapes ST. JOHNS COUNTY, FLORIDA PREPARED FOR UNITED LANDSCAPES INC SHEET No.: 16 OF 17

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I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.				BY: RAM N: CCS NO. DATE NO. DATE 1 07/15/14 REVISED PER SJC 2 08/08/14 REVISED PER SJC	DATE: 3 08/22/14 REVISED PER SJC 2ND REVIEW COMMENTS
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